



FCC TEST REPORT (PART 27)

REPORT NO.: RF131204C31-7

MODEL NO.: 0P6B160

FCC ID: NM80P6B160

RECEIVED: Dec. 04, 2013

TESTED: Jan. 07, 2014 ~ Jan. 16, 2014

ISSUED: Jan. 21, 2014

APPLICANT: HTC Corporation

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ISSUED BY: Bureau Veritas Consumer Products Services
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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF131204C31-7	Original release	Jan. 21, 2014



1 CERTIFICATION

PRODUCT: Smartphone
MODEL NO.: 0P6B160
BRAND: HTC
APPLICANT: HTC Corporation
TESTED: Jan. 07, 2014 ~ Jan. 16, 2014
TEST SAMPLE: Production Unit
TEST STANDARDS: **FCC Part 27, Subpart C, L**
FCC Part 2
ANSI C63.4-2003

The above equipment (model: 0P6B160) has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

PREPARED BY : Ivonne Wu , **DATE:** Jan. 21, 2014
Ivonne Wu / Supervisor

APPROVED BY : Sam Chen , **DATE:** Jan. 21, 2014
Sam Chen / Senior Project Engineer

2 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

WCDMA			
STANDARD SECTION	TEST TYPE	RESULT	REMARK
2.1046 27.50(d)(4)	Equivalent isotropically radiated power	PASS	Meet the requirement of limit.
2.1055 27.54	Frequency Stability	PASS	Meet the requirement of limit.
2.1049 27.53(h)	Occupied Bandwidth	PASS	Meet the requirement of limit.
27.50(d)(5)	Peak to average ratio	PASS	Meet the requirement of limit.
27.53(h)	Band Edge Measurements	PASS	Meet the requirement of limit.
2.1051 27.53(h)	Conducted Spurious Emissions	PASS	Meet the requirement of limit.
2.1053 27.53(h)	Radiated Spurious Emissions	PASS	Meet the requirement of limit. Minimum passing margin is -19.79dB at 6930.40MHz.

LTE Band 17			
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT	REMARK
2.1046 27.50(C)(10)	Maximum Peak Output Power	PASS	Meet the requirement of limit.
2.1055 27.54	Frequency Stability	PASS	Meet the requirement of limit.
2.1049 27.53(g)	Occupied Bandwidth	PASS	Meet the requirement of limit.
27.50(d)(5)	Peak to average ratio	PASS	Meet the requirement of limit.
27.53(g)	Band Edge Measurements	PASS	Meet the requirement of limit.
2.1051 27.53(g)	Conducted Spurious Emissions	PASS	Meet the requirement of limit.
2.1053 27.53(g)	Radiated Spurious Emissions	PASS	Meet the requirement of limit. Minimum passing margin is -28.56dB at 40.26MHz.

LTE Band 4			
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT	REMARK
2.1046 27.50(d)(4)	Maximum Peak Output Power	PASS	Meet the requirement of limit.
2.1055 27.54	Frequency Stability	PASS	Meet the requirement of limit.
2.1049 27.53(h)	Occupied Bandwidth	PASS	Meet the requirement of limit.
27.50(d)(5)	Peak to average ratio	PASS	Meet the requirement of limit.
27.53(h)	Band Edge Measurements	PASS	Meet the requirement of limit.
2.1051 27.53(h)	Conducted Spurious Emissions	PASS	Meet the requirement of limit.
2.1053 27.53(h)	Radiated Spurious Emissions	PASS	Meet the requirement of limit. Minimum passing margin is -6.75dB at 6932.00MHz.

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 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-405	Feb. 21, 2013	Feb. 20, 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	EMC0126545	980076	Feb. 27, 2013	Feb. 26, 2014
Preamplifier EMCI	EMC184045B	980175	Nov. 08, 2013	Nov. 07, 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

PRODUCT	Smartphone	
MODEL NO.	0P6B160	
POWER SUPPLY	5Vdc (adapter or host equipment) 3.8Vdc (battery)	
MODULATION TECHNOLOGY	WCDMA	QPSK, BPSK
	LTE Band 17	QPSK, 16QAM
	LTE Band 4	QPSK, 16QAM
FREQUENCY RANGE	WCDMA	1712.4MHz ~1752.6MHz
	LTE Band 17 Channel Bandwidth: 5MHz	706.5MHz ~ 713.5MHz
	LTE Band 17 Channel Bandwidth: 10MHz	709MHz ~ 711MHz
	LTE Band 4 Channel Bandwidth: 5MHz	1712.5MHz ~1752.5MHz
	LTE Band 4 Channel Bandwidth: 10MHz	1715.0MHz ~1750.0MHz
	LTE Band 4 Channel Bandwidth: 15MHz	1717.5MHz ~1747.5MHz
	LTE Band 4 Channel Bandwidth: 20MHz	1720.0MHz ~1745.0MHz
EMISSION DESIGNATOR	WCDMA	4M18F9W
	LTE Band 17 Channel Bandwidth: 5MHz	4M49W7D
	LTE Band 17 Channel Bandwidth: 10MHz	8M93G7D
	LTE Band 4 Channel Bandwidth: 5MHz	4M50G7D
	LTE Band 4 Channel Bandwidth: 10MHz	8M92W7D
	LTE Band 4 Channel Bandwidth: 15MHz	13M4G7D
	LTE Band 4 Channel Bandwidth: 20MHz	17M8G7D

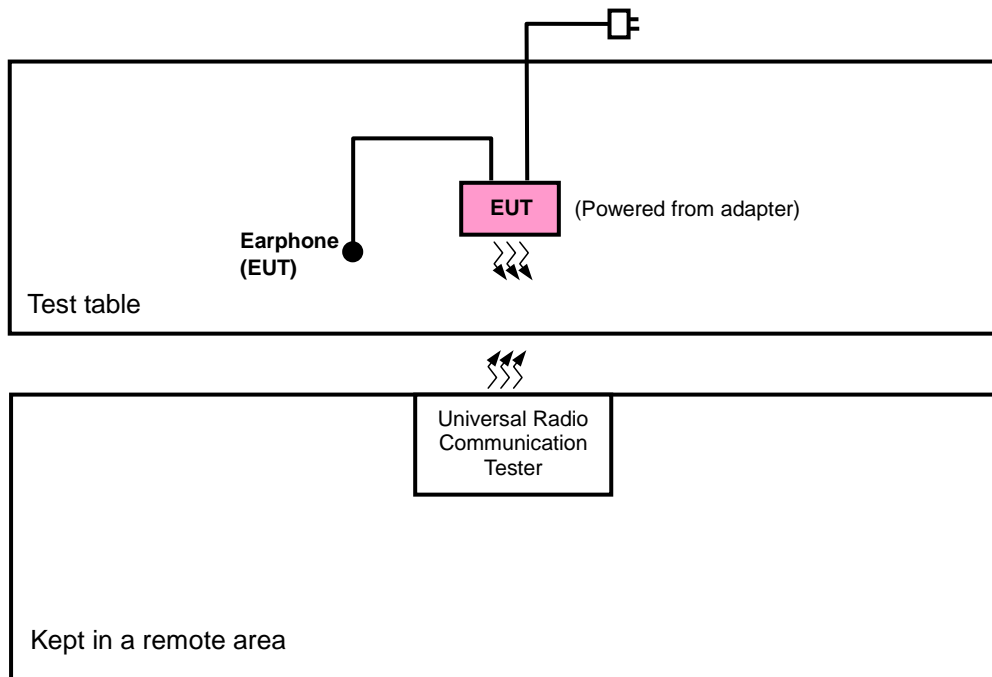
MAX. ERP POWER	LTE Band 17 Channel Bandwidth: 5MHz	53.21mW
	LTE Band 17 Channel Bandwidth: 10MHz	54.83mW
MAX. EIRP POWER	WCDMA	193.60mW
	LTE Band 4 Channel Bandwidth: 5MHz	227.51mW
	LTE Band 4 Channel Bandwidth: 10MHz	244.29mW
	LTE Band 4 Channel Bandwidth: 15MHz	243.72mW
	LTE Band 4 Channel Bandwidth: 20MHz	250.55mW
ANTENNA TYPE	WCDMA: 0.5dBi gain with Fixed Internal Antenna LTE Band 17: -3.5dBi gain with Fixed Internal Antenna LTE Band 4: 0.5dBi gain with Fixed Internal Antenna	
DATA CABLE	Refer to Note as below	
I/O PORTS	Refer to users' manual	
ACCESSORY DEVICES	Refer to Note as below	

NOTE:

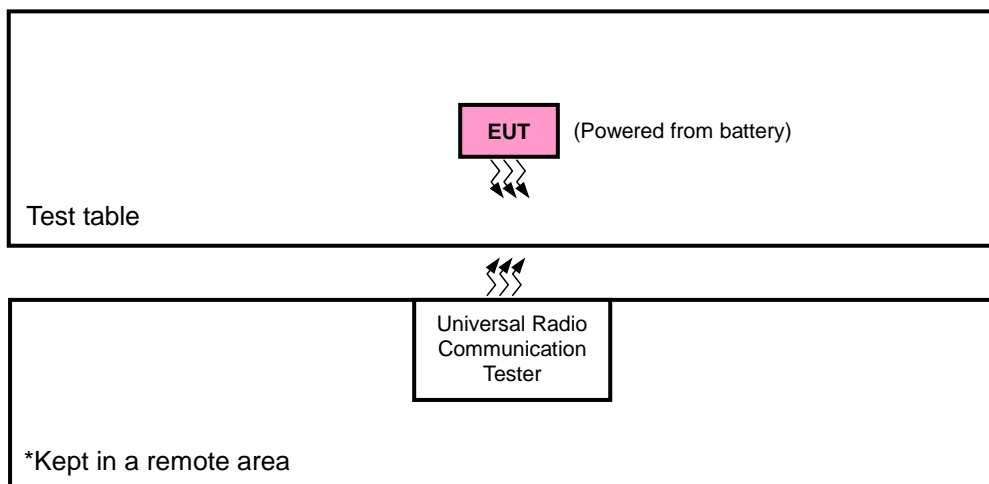
- The EUT's accessories list refers to Ext. Pho.
- There're 2 configurations for the EUT listed as below.
Main Sample (A): Battery 1 + LCD Panel 1
2nd Sample (B): Battery 2 + LCD Panel 2
✧ Only the worst test data was presented in the report.
- The above EUT information is declared by manufacturer and 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. / E.I.R.P. TEST



3.3 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units.

3.4 DESCRIPTION OF TEST MODES

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

EUT CONFIGURE MODE	DESCRIPTION
A	Main sample
B	2 nd sample

ANTENNA	TEST ITEM	ERP / EIRP	RADIATED EMISSION
Antenna 0	WCDMA Band 4	Z-plane	X-axis
	LTE Band 17	X-plane	Y-axis
	LTE Band 4	Z-plane	Z-axis

WCDMA

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
A	EIRP	1312 to 1513	1312, 1413, 1513	WCDMA
A	FREQUENCY STABILITY	1312 to 1513	1413	WCDMA
A	OCCUPIED BANDWIDTH	1312 to 1513	1312, 1413, 1513	WCDMA
A	BAND EDGE	1312 to 1513	1312, 1513	WCDMA
A	CONDCUDED EMISSION	1312 to 1513	1413	WCDMA
A	RADIATED EMISSION	1312 to 1513	1413	WCDMA



LTE Band 17

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE		
A	ERP	23755 to 23825	23755, 23790, 23825	5MHz	QPSK, 16QAM	1 RB / 12 RB Offset		
		23780 to 23800	23780, 23790, 23800	10MHz	QPSK, 16QAM	1 RB / 24 RB Offset		
B	ERP	23780 to 23800	23790	10MHz	QPSK, 16QAM	1 RB / 24 RB Offset		
A	FREQUENCY STABILITY	23755 to 23825	23790	5MHz	QPSK	1 RB / 12 RB Offset		
		23780 to 23800	23790	10MHz	QPSK	1 RB / 24 RB Offset		
A	OCCUPIED BANDWIDTH	23755 to 23825	23755, 23790, 23825	5MHz	QPSK, 16QAM	25 RB / 0 RB Offset		
		23780 to 23800	23780, 23790, 23800	10MHz	QPSK, 16QAM	50 RB / 0 RB Offset		
A	PEAK TO AVERAGE RATIO	23755 to 23825	23755, 23790, 23825	5MHz	QPSK, 16QAM	1 RB / 24 RB Offset		
		23780 to 23800	23780, 23790, 23800	10MHz	QPSK, 16QAM	1 RB / 49 RB Offset		
A	BAND EDGE	23755 to 23825	23755	5MHz	QPSK	1 RB / 0 RB Offset 25 RB / 0 RB Offset		
			23825	5MHz	QPSK	1 RB / 24 RB Offset 25 RB / 0 RB Offset		
		23780 to 23800	23780	10MHz	QPSK	1 RB / 0 RB Offset 50 RB / 0 RB Offset		
			23800	10MHz	QPSK	1 RB / 49 RB Offset 50 RB / 0 RB Offset		
		A	CONDCUDED EMISSION	23755 to 23825	23790	5MHz	QPSK	1 RB / 24 RB Offset
				23780 to 23800	23790	10MHz	QPSK	1 RB / 49 RB Offset
A	RADIATED EMISSION	23755 to 23825	23790	5MHz	QPSK	1 RB / 24 RB Offset		
		23780 to 23800	23790	10MHz	QPSK	1 RB / 12 RB Offset		

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



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LTE Band 4

EUT CONFIGUR E MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE	
A	EIRP	19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM	1 RB / 12 RB Offset	
		20000 to 20350	20000, 20175, 20350	10MHz	QPSK, 16QAM	1 RB / 24 RB Offset	
		20025 to 20325	20025, 20175, 20325	15MHz	QPSK, 16QAM	1 RB / 37 RB Offset	
		20050 to 20300	20050, 20175, 20300	20MHz	QPSK, 16QAM	1 RB / 50 RB Offset	
B	EIRP	20050 to 20300	20175	20MHz	QPSK, 16QAM	1 RB / 50 RB Offset	
A	FREQUENCY STABILITY	19975 to 20375	20175	5MHz	QPSK	1 RB / 12 RB Offset	
		20000 to 20350	20175	10MHz	QPSK	1 RB / 24 RB Offset	
		20025 to 20325	20175	15MHz	QPSK	1 RB / 37 RB Offset	
		20050 to 20300	20175	20MHz	QPSK	1 RB / 50 RB Offset	
A	OCCUPIED BANDWIDTH	19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM	25 RB / 0 RB Offset	
		20000 to 20350	20000, 20175, 20350	10MHz	QPSK, 16QAM	50 RB / 0 RB Offset	
		20025 to 20325	20025, 20175, 20325	15MHz	QPSK, 16QAM	75 RB / 0 RB Offset	
		20050 to 20300	20050, 20175, 20300	20MHz	QPSK, 16QAM	100 RB / 0 RB Offset	
A	PEAK TO AVERAGE RATIO	19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM	1 RB / 12 RB Offset	
		20000 to 20350	20000, 20175, 20350	10MHz	QPSK, 16QAM	1 RB / 24 RB Offset	
		20025 to 20325	20025, 20175, 20325	15MHz	QPSK, 16QAM	1 RB / 37 RB Offset	
		20050 to 20300	20050, 20175, 20300	20MHz	QPSK, 16QAM	1 RB / 50 RB Offset	
A	BAND EDGE	19975 to 20375	19975	5MHz	QPSK	1 RB / 0 RB Offset 25 RB / 0 RB Offset	
			20375	5MHz	QPSK	1 RB / 24 RB Offset 25 RB / 0 RB Offset	
		20000 to 20350	20000	10MHz	QPSK	1 RB / 0 RB Offset 50 RB / 0 RB Offset	
			20350	10MHz	QPSK	1 RB / 49 RB Offset 50 RB / 0 RB Offset	
			20025 to 20325	20025	15MHz	QPSK	1 RB / 0 RB Offset 75 RB / 0 RB Offset
				20325	15MHz	QPSK	1 RB / 74 RB Offset 75 RB / 0 RB Offset
20050 to 20300	20050	20MHz	QPSK	1 RB / 0 RB Offset 100 RB / 0 RB Offset			
	20300	20MHz	QPSK	1 RB / 99 RB Offset 100 RB / 0 RB Offset			
A	CONDCUETED EMISSION	19975 to 20375	20175	5MHz	QPSK	1 RB / 12 RB Offset	
		20000 to 20350	20175	10MHz	QPSK	1 RB / 24 RB Offset	
		20025 to 20325	20175	15MHz	QPSK	1 RB / 37 RB Offset	
		20050 to 20300	20175	20MHz	QPSK	1 RB / 50 RB Offset	
A	RADIATED EMISSION	19975 to 20375	20175	5MHz	QPSK	1 RB / 12 RB Offset	
		20000 to 20350	20175	10MHz	QPSK	1 RB / 24 RB Offset	
		20025 to 20325	20175	15MHz	QPSK	1 RB / 37 RB Offset	
		20050 to 20300	20175	20MHz	QPSK	1 RB / 50 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/EIRP	26deg. C, 58%RH	3.8Vdc	Howard Kao
FREQUENCY STABILITY	26deg. C, 58%RH	3.8Vdc	Howard Kao
OCCUPIED BANDWIDTH	26deg. C, 58%RH	3.8Vdc	Howard Kao
BAND EDGE	26deg. C, 58%RH	3.8Vdc	Howard Kao
CONDCUDED EMISSION	26deg. C, 58%RH	3.8Vdc	Howard Kao
RADIATED EMISSION	25deg. C, 65%RH	120Vac, 60Hz	Johnson Liao Peter Weng

3.5 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 27

ANSI C63.4-2003

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

Fixed, mobile, and portable (hand-held) stations operating in the 1710–1755 MHz band are limited to 1 watt EIRP.

Portable stations (hand-held devices) operating in the 704-716 MHz band are limited to 3 watts ERP

4.1.2 TEST PROCEDURES

EIRP MEASUREMENT:

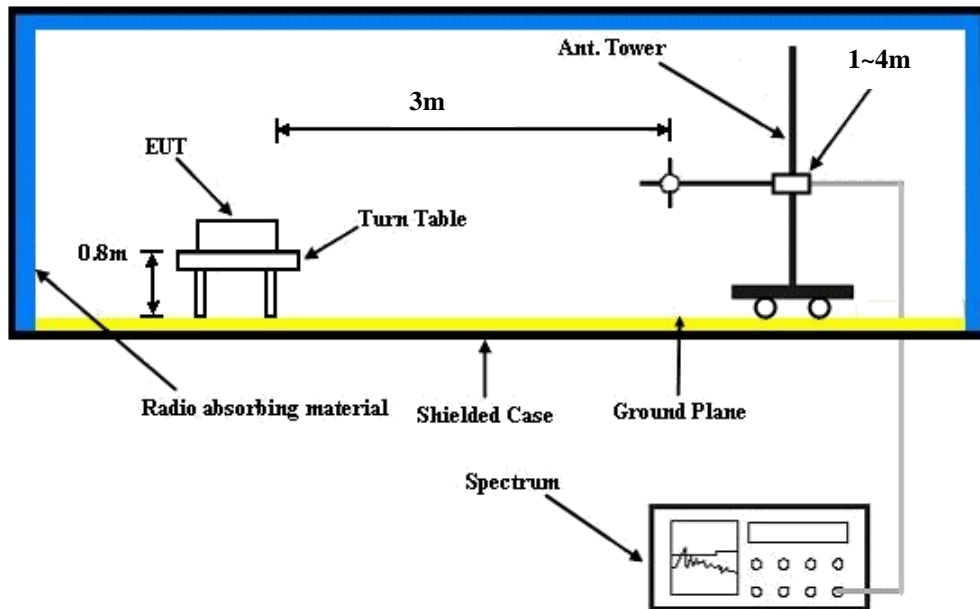
- a. All measurements were done at low, middle and high operational frequency range. RBW and VBW is 1MHz for GSM, GPRS & EDGE, 5MHz for WCDMA, and 10MHz for LTE mode.
- b. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The “Read Value” is the spectrum reading the maximum power value.
- c. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a tx cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to “Read Value” of step b. Record the power level of S.G
- d. $EIRP = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn.}$

CONDUCTED POWER MEASUREMENT:

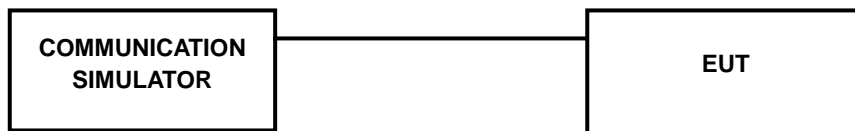
- a. The EUT was set up for the maximum power with LTE link data modulation and link up with simulator.
- b. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

4.1.3 TEST SETUP

EIRP / ERP MEASUREMENT:



CONDUCTED POWER MEASUREMENT:



4.1.4 TEST RESULTS

AVERAGE CONDUCTED OUTPUT POWER (dBm)

Band	WCDMA IV		
Channel	1312	1413	1513
Frequency (MHz)	1712.4	1732.6	1752.6
RMC 12.2K	23.43	23.59	23.55
HSDPA Subtest-1	22.46	22.62	22.58
HSDPA Subtest-2	22.40	22.56	22.52
HSDPA Subtest-3	21.94	22.10	22.06
HSDPA Subtest-4	21.93	22.09	22.05
HSUPA Subtest-1	22.53	22.69	22.65
HSUPA Subtest-2	21.01	21.17	21.13
HSUPA Subtest-3	21.47	21.63	21.59
HSUPA Subtest-4	20.45	20.61	20.57
HSUPA Subtest-5	22.19	22.35	22.31

Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH	3PGG MPR (dB)
				23755 Frequency 706.5 MHz	23790 Frequency 710.0 MHz	23825 Frequency 713.5 MHz	
17 / 5M	QPSK	1	0	23.03	23.00	23.10	0
		1	12	23.26	23.14	23.27	0
		1	24	23.11	23.04	23.14	0
		12	0	22.19	22.18	22.23	1
		12	6	22.21	22.20	22.24	1
		12	13	22.24	22.23	22.25	1
		25	0	22.25	22.24	22.26	1
	16QAM	1	0	21.96	21.93	22.03	1
		1	12	22.19	22.07	22.20	1
		1	24	22.04	21.97	22.07	1
		12	0	21.12	21.11	21.16	2
		12	6	21.14	21.13	21.17	2
		12	13	21.17	21.16	21.18	2
		25	0	21.18	21.17	21.19	2



Band / BW	Modulation	RB Size	RB Offset	Low CH 23780	Mid CH 23790	High CH 23800	3PGG MPR (dB)
				Frequency 709.0 MHz	Frequency 710.0 MHz	Frequency 711.0 MHz	
17 / 10M	QPSK	1	0	23.14	23.11	23.21	0
		1	24	23.37	23.25	23.38	0
		1	49	23.22	23.15	23.25	0
		25	0	22.30	22.29	22.34	1
		25	12	22.32	22.31	22.35	1
		25	25	22.35	22.34	22.36	1
		50	0	22.36	22.35	22.37	1
	16QAM	1	0	22.07	22.04	22.14	1
		1	24	22.30	22.18	22.31	1
		1	49	22.15	22.08	22.18	1
		25	0	21.23	21.22	21.27	2
		25	12	21.25	21.24	21.28	2
		25	25	21.28	21.27	21.29	2
		50	0	21.29	21.28	21.30	2

Band / BW	Modulation	RB Size	RB Offset	Low CH 19975	Mid CH 20175	High CH 20375	3PGG MPR (dB)
				Frequency 1712.5 MHz	Frequency 1732.5 MHz	Frequency 1752.5 MHz	
4 / 5M	QPSK	1	0	23.01	23.19	23.12	0
		1	12	23.17	23.46	23.27	0
		1	24	22.89	23.00	22.94	0
		12	0	22.29	22.42	22.36	1
		12	6	22.23	22.37	22.29	1
		12	13	22.12	22.32	22.28	1
		25	0	22.28	22.33	22.30	1
	16QAM	1	0	21.96	22.14	22.07	1
		1	12	22.12	22.41	22.22	1
		1	24	21.84	21.95	21.89	1
		12	0	21.24	21.37	21.31	2
		12	6	21.18	21.32	21.24	2
		12	13	21.07	21.27	21.23	2
		25	0	21.23	21.28	21.25	2

Band / BW	Modulation	RB Size	RB Offset	Low CH 20000	Mid CH 20175	High CH 20350	3PGG MPR (dB)
				Frequency 1715.0 MHz	Frequency 1732.5 MHz	Frequency 1750.0 MHz	
4 / 10M	QPSK	1	0	23.13	23.31	23.24	0
		1	24	23.29	23.58	23.39	0
		1	49	23.01	23.12	23.06	0
		25	0	22.41	22.54	22.48	1
		25	12	22.35	22.49	22.41	1
		25	25	22.24	22.44	22.40	1
		50	0	22.40	22.45	22.42	1
	16QAM	1	0	22.08	22.26	22.19	1
		1	24	22.24	22.53	22.34	1
		1	49	21.96	22.07	22.01	1
		25	0	21.36	21.49	21.43	2
		25	12	21.30	21.44	21.36	2
		25	25	21.19	21.39	21.35	2
		50	0	21.35	21.40	21.37	2



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Band / BW	Modulation	RB Size	RB Offset	Low CH 20025	Mid CH 20175	High CH 20325	3PGG MPR (dB)
				Frequency 1717.5 MHz	Frequency 1732.5 MHz	Frequency 1747.5 MHz	
4 / 15M	QPSK	1	0	23.25	23.43	23.36	0
		1	37	23.41	23.70	23.51	0
		1	74	23.13	23.24	23.18	0
		36	0	22.53	22.66	22.60	1
		36	19	22.47	22.61	22.53	1
		36	39	22.36	22.56	22.52	1
		75	0	22.52	22.57	22.54	1
	16QAM	1	0	22.20	22.38	22.31	1
		1	37	22.36	22.65	22.46	1
		1	74	22.08	22.19	22.13	1
		36	0	21.48	21.61	21.55	2
		36	19	21.42	21.56	21.48	2
		36	39	21.31	21.51	21.47	2
		75	0	21.47	21.52	21.49	2

Band / BW	Modulation	RB Size	RB Offset	Low CH 20050	Mid CH 20175	High CH 20300	3PGG MPR (dB)
				Frequency 1720.0 MHz	Frequency 1732.5 MHz	Frequency 1745.0 MHz	
4 / 20M	QPSK	1	0	23.34	23.52	23.45	0
		1	50	23.50	23.79	23.60	0
		1	99	23.22	23.33	23.27	0
		50	0	22.62	22.75	22.69	1
		50	25	22.56	22.70	22.62	1
		50	50	22.45	22.65	22.61	1
		100	0	22.61	22.66	22.63	1
	16QAM	1	0	22.29	22.47	22.40	1
		1	50	22.45	22.74	22.55	1
		1	99	22.17	22.28	22.22	1
		50	0	21.57	21.70	21.64	2
		50	25	21.51	21.65	21.57	2
		50	50	21.40	21.60	21.56	2
		100	0	21.56	21.61	21.58	2



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AVERAGE ERP (dBm)

TEST MODE A

LTE BAND 17

CHANNEL BANDWIDTH: 5MHz QPSK

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)
X	23755	706.5	-10.95	30.36	17.26	53.21	H
	23790	710.0	-10.88	30.17	17.14	51.76	
	23825	713.5	-10.87	30.17	17.15	51.88	
	23755	706.5	-20.34	32.03	9.54	8.99	V
	23790	710.0	-20.18	31.98	9.65	9.23	
	23825	713.5	-20.48	32.06	9.43	8.77	

CHANNEL BANDWIDTH: 5MHz 16QAM

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)
X	23755	706.5	-11.95	30.36	16.26	42.27	H
	23790	710.0	-11.85	30.17	16.17	41.40	
	23825	713.5	-11.75	30.17	16.27	42.36	
	23755	706.5	-20.55	32.03	9.33	8.57	V
	23790	710.0	-20.30	31.98	9.53	8.97	
	23825	713.5	-20.51	32.06	9.40	8.71	

CHANNEL BANDWIDTH: 10MHz QPSK

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)
X	23780	709.0	-10.74	30.17	17.28	53.46	H
	23790	710.0	-10.64	30.17	17.38	54.70	
	23800	711.0	-10.64	30.18	17.39	54.83	
	23780	709.0	-20.27	31.96	9.54	8.99	V
	23790	710.0	-20.17	31.98	9.66	9.25	
	23800	711.0	-20.23	32.03	9.65	9.23	

CHANNEL BANDWIDTH: 10MHz 16QAM

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)
X	23780	709.0	-11.74	30.17	16.28	42.46	H
	23790	710.0	-11.78	30.17	16.24	42.07	
	23800	711.0	-11.58	30.18	16.45	44.16	
	23780	709.0	-20.53	31.96	9.28	8.47	V
	23790	710.0	-20.31	31.98	9.52	8.95	
	23800	711.0	-20.42	32.03	9.46	8.83	

TEST MODE B

LTE BAND 17

CHANNEL BANDWIDTH: 10MHz QPSK

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)
X	23790	710.0	-10.86	30.17	17.16	52.00	H
	23790	710.0	-21.33	31.98	8.50	7.08	V

CHANNEL BANDWIDTH: 10MHz 16QAM

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)
X	23790	710.0	-11.94	30.17	16.08	40.55	H
	23790	710.0	-21.17	31.98	8.66	7.35	V



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AVERAGE EIRP (dBm)

TEST MODE A

WCDMA

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
Z	1312	1712.4	-27.03	36.29	9.26	8.43	H
	1413	1732.6	-27.26	36.69	9.43	8.77	
	1513	1752.6	-27.02	36.98	9.96	9.91	
	1312	1712.4	-14.63	37.11	22.48	176.93	V
	1413	1732.6	-14.81	37.60	22.79	190.11	
	1513	1752.6	-14.78	37.65	22.87	193.60	

LTE BAND 4

CHANNEL BANDWIDTH: 5MHz QPSK

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
Z	19975	1712.5	-29.16	36.45	7.29	5.36	H
	20175	1732.5	-29.22	36.80	7.58	5.73	
	20375	1752.5	-28.98	36.94	7.96	6.26	
	19975	1712.5	-14.24	37.28	23.04	201.23	V
	20175	1732.5	-14.06	37.63	23.57	227.51	
	20375	1752.5	-14.27	37.64	23.37	217.27	

CHANNEL BANDWIDTH: 5MHz 16QAM

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
Z	19975	1712.5	-29.16	36.45	7.29	5.36	H
	20175	1732.5	-29.08	36.80	7.72	5.91	
	20375	1752.5	-29.02	36.94	7.92	6.20	
	19975	1712.5	-14.84	37.28	22.44	175.27	V
	20175	1732.5	-14.86	37.63	22.77	189.23	
	20375	1752.5	-14.85	37.64	22.79	190.11	



CHANNEL BANDWIDTH: 10MHz QPSK

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
Z	20000	1715.0	-29.11	36.64	7.53	5.66	H
	20175	1732.5	-29.10	36.80	7.69	5.88	
	20350	1750.0	-29.02	36.80	7.78	6.00	
	20000	1715.0	-13.56	37.44	23.88	244.29	V
	20175	1732.5	-14.22	37.63	23.41	219.23	
	20350	1750.0	-14.10	37.64	23.54	225.68	

CHANNEL BANDWIDTH: 10MHz 16QAM

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
Z	20000	1715.0	-28.69	36.64	7.95	6.24	H
	20175	1732.5	-28.87	36.80	7.92	6.20	
	20350	1750.0	-28.67	36.80	8.13	6.50	
	20000	1715.0	-14.86	37.44	22.58	181.09	V
	20175	1732.5	-14.86	37.63	22.77	189.19	
	20350	1750.0	-14.69	37.64	22.95	197.02	

CHANNEL BANDWIDTH: 15MHz QPSK

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
Z	20025	1717.5	-28.82	36.64	7.82	6.05	H
	20175	1732.5	-29.01	36.80	7.78	6.00	
	20325	1747.5	-28.64	36.80	8.16	6.55	
	20025	1717.5	-13.58	37.44	23.86	243.16	V
	20175	1732.5	-13.76	37.63	23.87	243.72	
	20325	1747.5	-13.85	37.64	23.79	239.06	



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CHANNEL BANDWIDTH: 15MHz 16QAM

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
Z	20025	1717.5	-28.62	36.64	8.02	6.34	H
	20175	1732.5	-28.69	36.80	8.10	6.46	
	20325	1747.5	-28.42	36.80	8.38	6.89	
	20025	1717.5	-14.65	37.44	22.79	190.06	V
	20175	1732.5	-14.70	37.63	22.93	196.29	
	20325	1747.5	-14.73	37.64	22.91	195.21	

CHANNEL BANDWIDTH: 20MHz QPSK

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
Z	20050	1720.0	-28.57	36.64	8.07	6.41	H
	20175	1732.5	-28.98	36.80	7.81	6.05	
	20300	1745.0	-28.90	36.80	7.90	6.17	
	20050	1720.0	-13.48	37.44	23.96	248.83	V
	20175	1732.5	-13.64	37.63	23.99	250.55	
	20300	1745.0	-13.68	37.64	23.96	248.60	

CHANNEL BANDWIDTH: 20MHz 16QAM

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
Z	20050	1720.0	-29.06	36.64	7.58	5.73	H
	20175	1732.5	-29.03	36.80	7.76	5.98	
	20300	1745.0	-29.00	36.80	7.80	6.03	
	20050	1720.0	-14.67	37.44	22.77	189.41	V
	20175	1732.5	-14.71	37.63	22.92	195.84	
	20300	1745.0	-14.70	37.64	22.94	196.56	



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TEST MODE B

LTE BAND 4

CHANNEL BANDWIDTH: 20MHz QPSK

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
Z	20175	1732.5	-29.45	36.80	7.35	5.43	H
	20175	1732.5	-13.91	37.63	23.72	235.45	V

CHANNEL BANDWIDTH: 20MHz 16QAM

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
Z	20175	1732.5	-29.77	36.80	7.03	5.04	H
	20175	1732.5	-14.97	37.63	22.66	184.46	V

4.2 FREQUENCY STABILITY MEASUREMENT

4.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

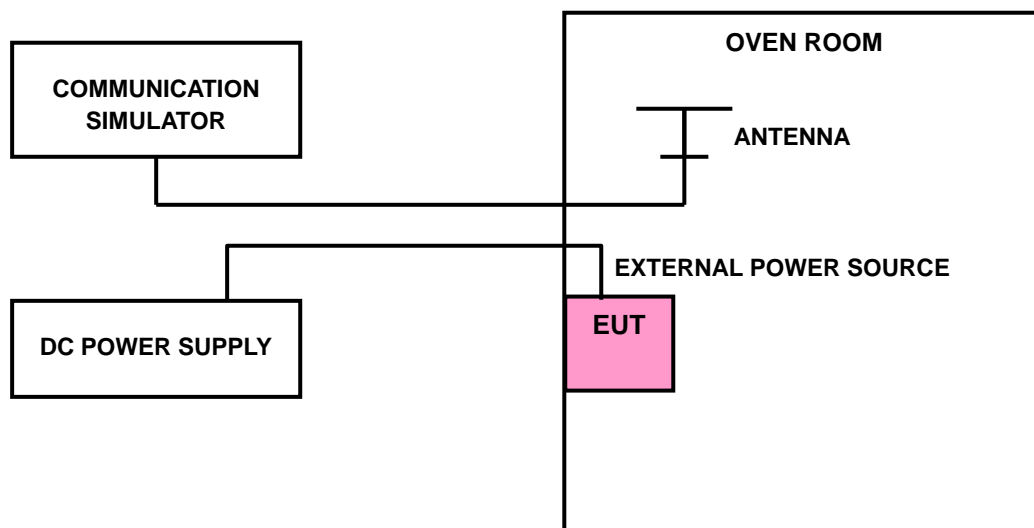
The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

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 $\pm 0.5^{\circ}\text{C}$ 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)
	WCDMA	LTE BAND 17		LTE BAND 4				
		5MHz	10MHz	5MHz	10MHz	15MHz	20MHz	
3.8	-0.0008	-0.0044	0.0048	0.0039	-0.0032	-0.0039	0.0033	2.5
3.6	-0.0030	-0.0037	0.0030	-0.0033	0.0021	-0.0012	0.0027	2.5
4.35	-0.0036	-0.0024	-0.0058	-0.0008	0.0030	-0.0020	0.0041	2.5

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

FREQUENCY ERROR vs. TEMPERATURE

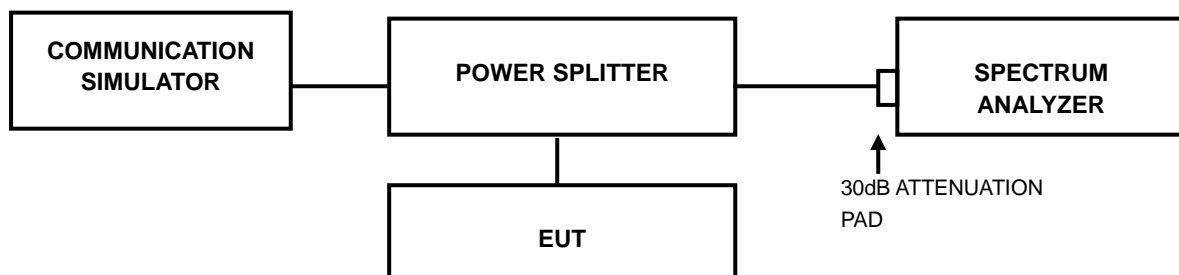
TEMP. (°C)	FREQUENCY ERROR (ppm)							LIMIT (ppm)
	WCDMA	LTE BAND 17		LTE BAND 4				
		5MHz	10MHz	5MHz	10MHz	15MHz	20MHz	
-30	-0.0022	-0.0045	-0.0020	-0.0009	0.0032	0.0017	-0.0005	2.5
-20	-0.0030	-0.0037	-0.0065	-0.0018	0.0013	0.0020	0.0018	2.5
-10	-0.0014	-0.0027	-0.0045	-0.0024	0.0014	-0.0009	-0.0006	2.5
0	-0.0013	-0.0006	-0.0079	-0.0018	-0.0017	0.0012	-0.0009	2.5
10	-0.0022	-0.0059	0.0004	-0.0004	0.0021	-0.0011	-0.0014	2.5
20	-0.0019	-0.0072	-0.0006	0.0016	-0.0006	0.0034	0.0033	2.5
30	-0.0018	-0.0035	0.0058	-0.0023	0.0016	0.0015	0.0020	2.5
40	-0.0002	-0.0013	0.0101	0.0009	0.0007	-0.0017	-0.0002	2.5
50	-0.0012	-0.0068	-0.0035	0.0032	-0.0003	0.0014	-0.0022	2.5

4.3 OCCUPIED BANDWIDTH MEASUREMENT

4.3.1 LIMITS OF OCCUPIED BANDWIDTH MEASUREMENT

The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 %of the total mean power of a given emission.

4.3.2 TEST SETUP

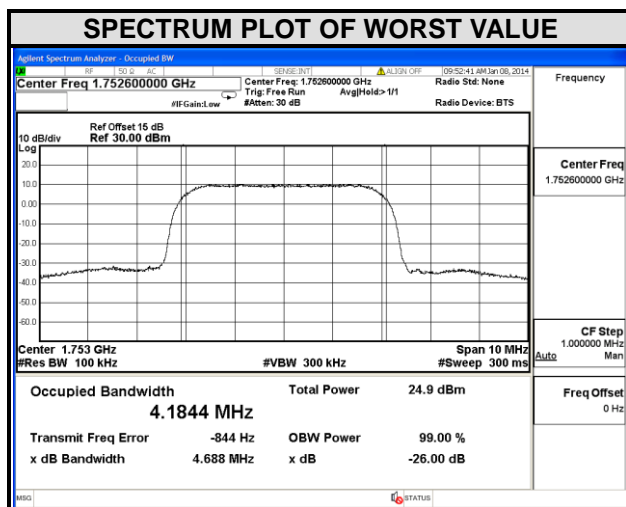


4.3.3 TEST PROCEDURES

- a. The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.
- b. Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth.

4.3.4 TEST RESULTS

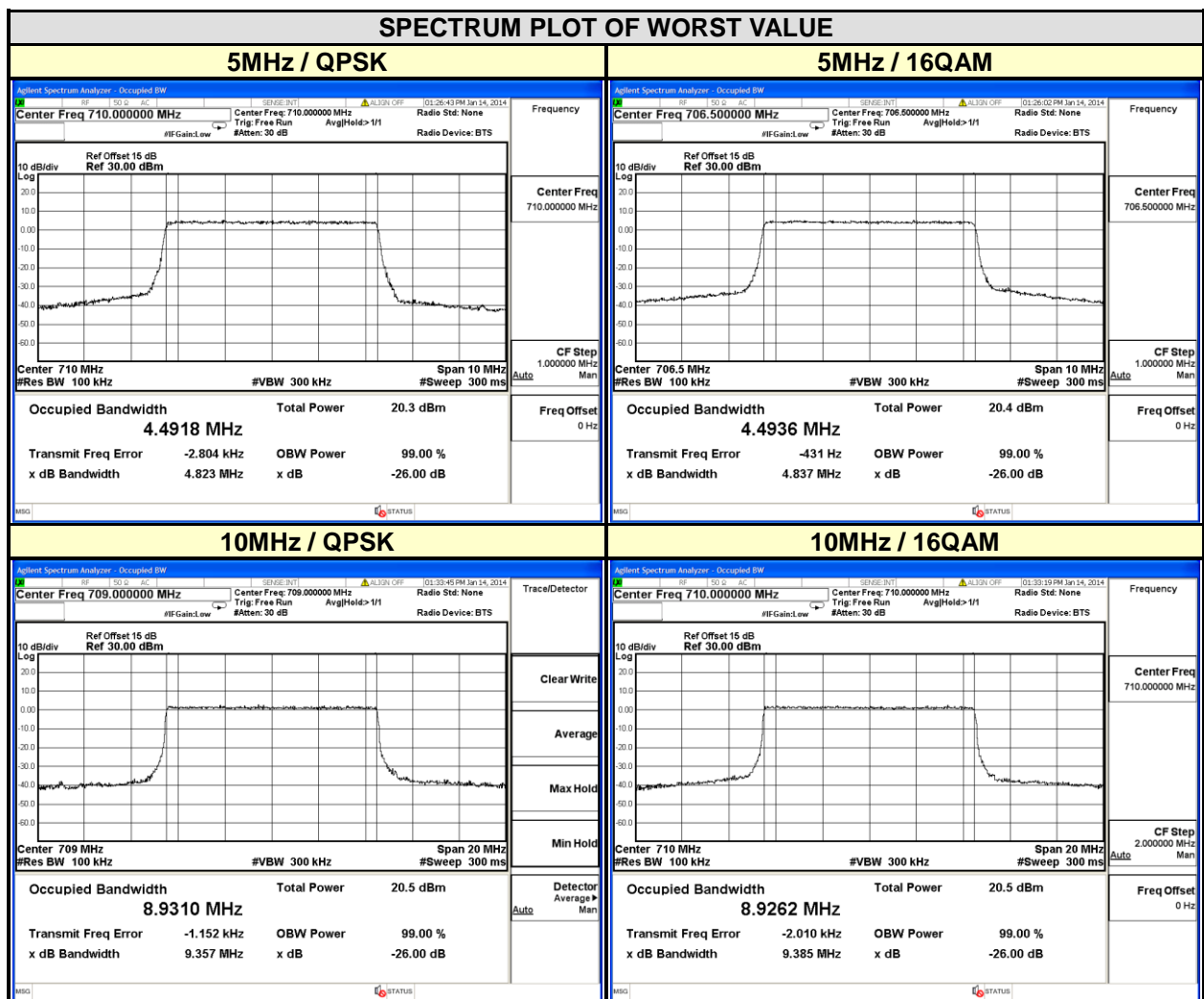
WCDMA		
CHANNEL	FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH (MHz)
1312	1712.4	4.1843
1413	1732.6	4.1815
1513	1752.6	4.1844





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LTE BAND 17							
CHANNEL BANDWIDTH: 5MHz				CHANNEL BANDWIDTH: 10MHz			
CHANNEL	FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH (MHz)		CHANNEL	FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH (MHz)	
		QPSK	16QAM			QPSK	16QAM
23755	706.5	4.4901	4.4936	23780	709.0	8.9310	8.9257
23790	710.0	4.4918	4.4916	23790	710.0	8.9310	8.9262
23825	713.5	4.4914	4.4926	23800	711.0	8.9251	8.9258

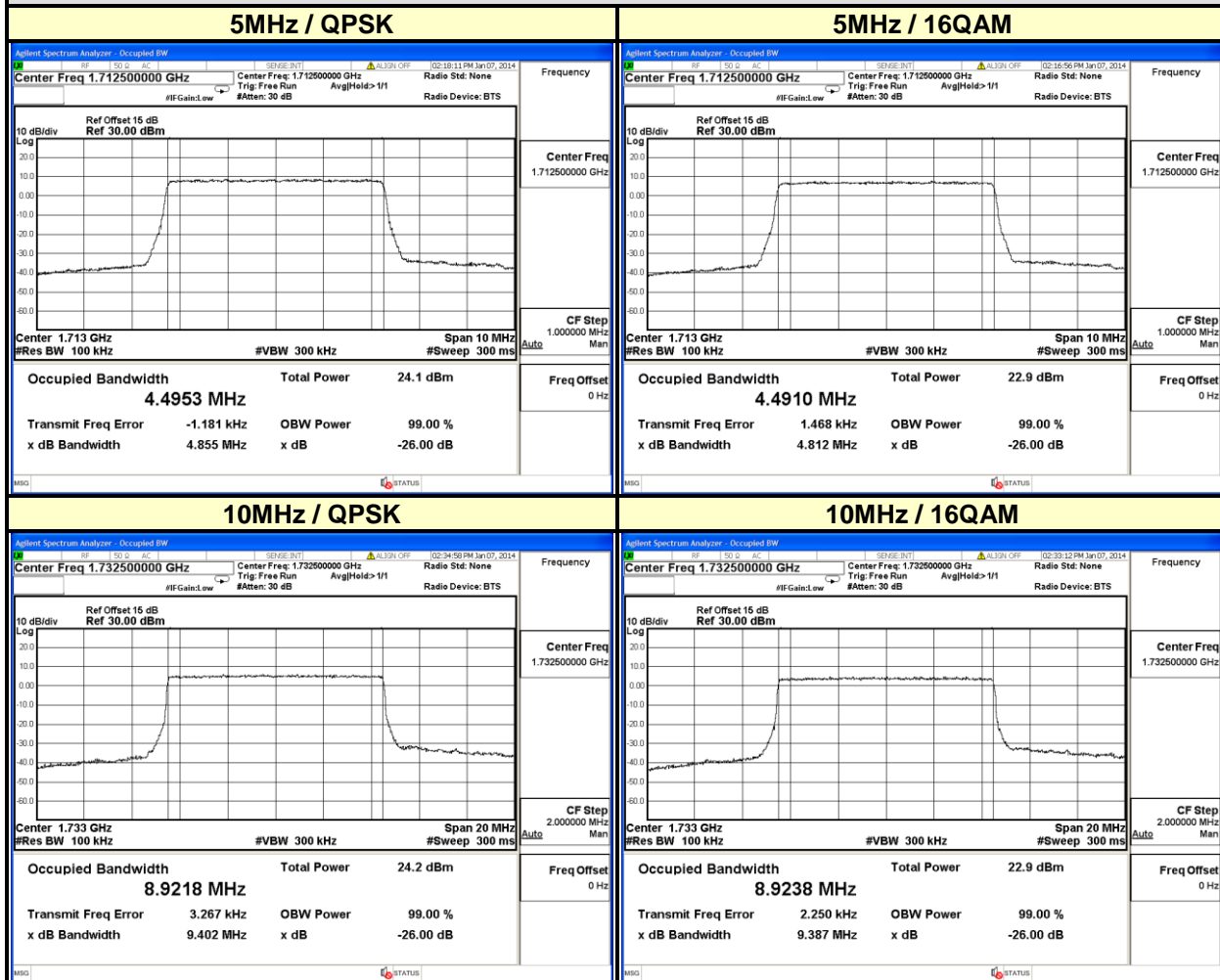




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LTE BAND 4							
CHANNEL BANDWIDTH: 5MHz				CHANNEL BANDWIDTH: 10MHz			
CHANNEL	FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH (MHz)		CHANNEL	FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH (MHz)	
		QPSK	16QAM			QPSK	16QAM
19975	1712.5	4.4953	4.4910	20000	1715.0	8.9197	8.9186
20175	1732.5	4.4912	4.4902	20175	1732.5	8.9218	8.9238
20375	1752.5	4.4911	4.4871	20350	1750.0	8.9207	8.9204

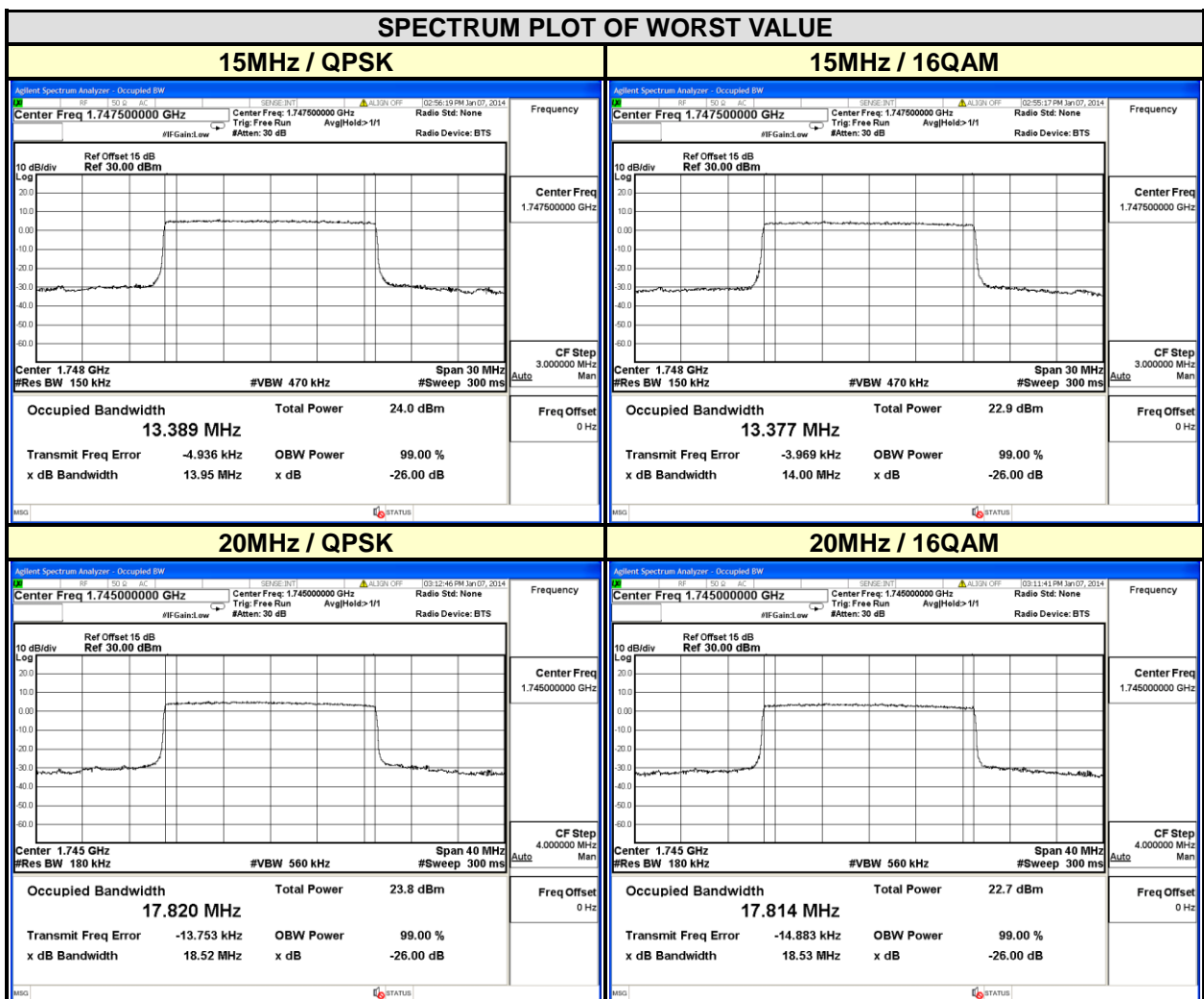
SPECTRUM PLOT OF WORST VALUE





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LTE BAND 4							
CHANNEL BANDWIDTH: 15MHz				CHANNEL BANDWIDTH: 20MHz			
CHANNEL	FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH (MHz)		CHANNEL	FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH (MHz)	
		QPSK	16QAM			QPSK	16QAM
20025	1717.5	13.383	13.375	20050	1720.0	17.813	17.811
20175	1732.5	13.364	13.366	20175	1732.5	17.801	17.798
20325	1747.5	13.389	13.377	20300	1745.0	17.820	17.814

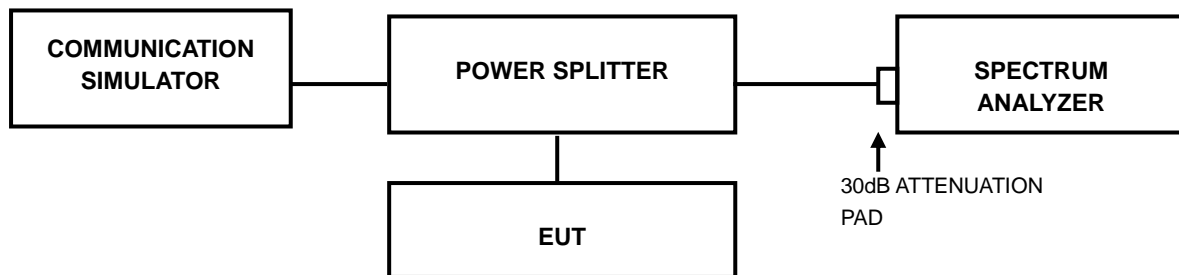


4.4 PEAK TO AVERAGE RATIO

4.4.1 LIMITS OF PEAK TO AVERAGE RATIO MEASUREMENT

In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13 dB

4.4.2 TEST SETUP



4.4.3 TEST PROCEDURES

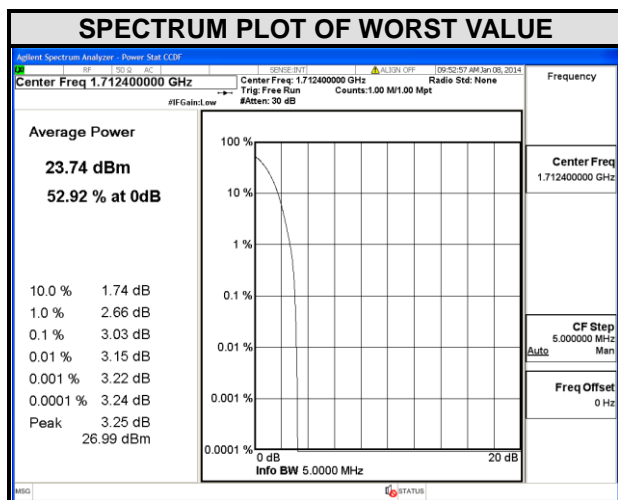
1. Set resolution/measurement bandwidth \geq signal's occupied bandwidth;
2. Set the number of counts to a value that stabilizes the measured CCDF curve;
3. Record the maximum PAPR level associated with a probability of 0.1%.



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4.4.4 TEST RESULTS

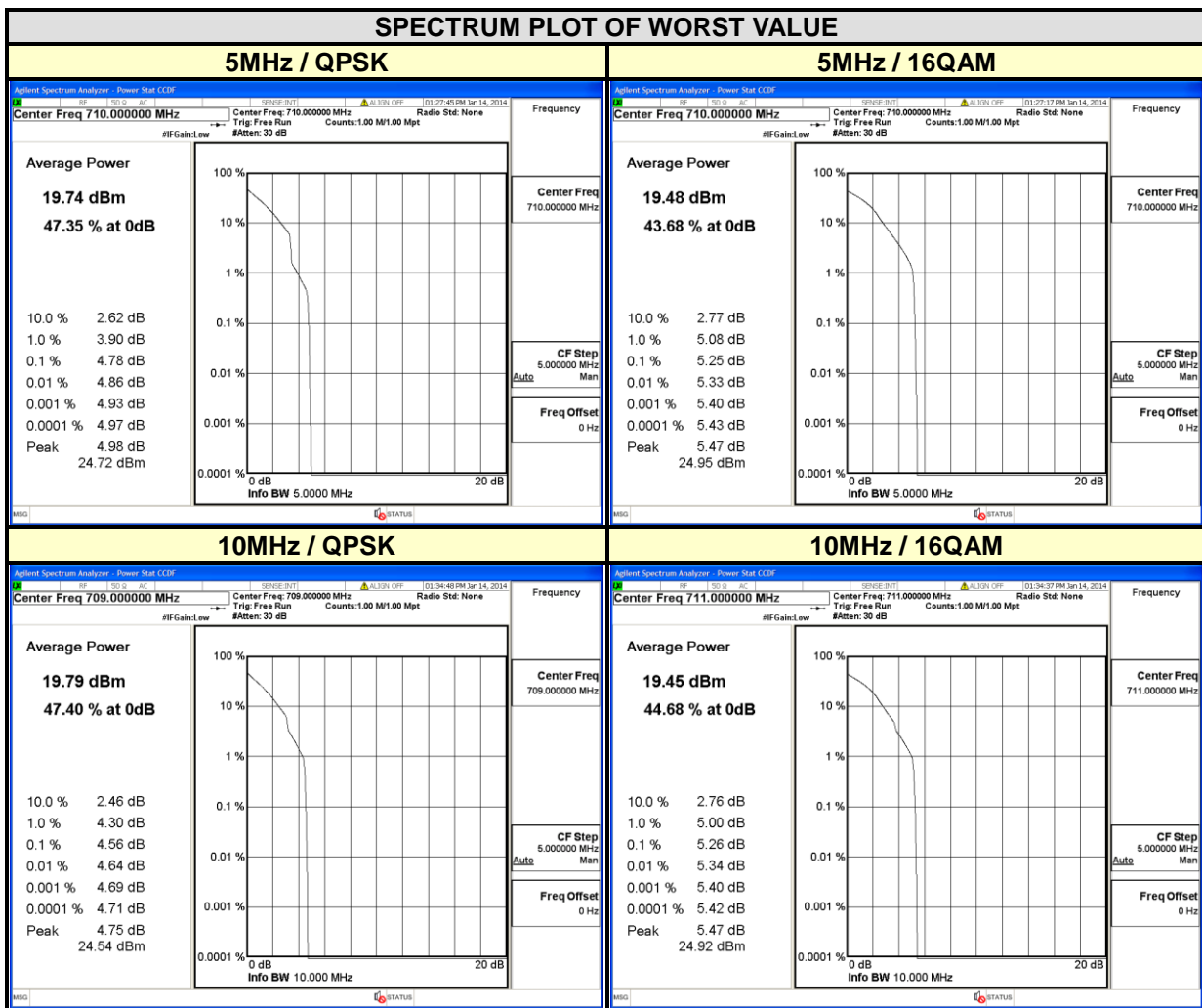
WCDMA		
CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)
1312	1712.4	3.03
1413	1732.6	2.87
1513	1752.6	2.76





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LTE BAND 17							
CHANNEL BANDWIDTH: 5MHz				CHANNEL BANDWIDTH: 10MHz			
CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)		CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)	
		QPSK	16QAM			QPSK	16QAM
23755	706.5	4.53	5.17	23780	709.0	4.56	5.11
23790	710.0	4.78	5.25	23790	710.0	3.53	5.10
23825	713.5	4.65	5.24	23800	711.0	3.59	5.26

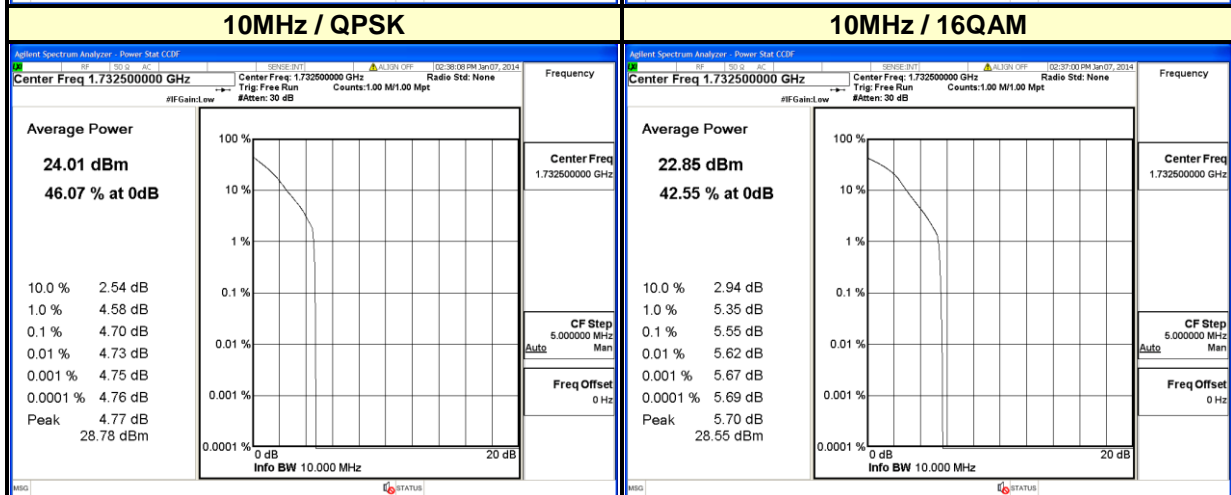
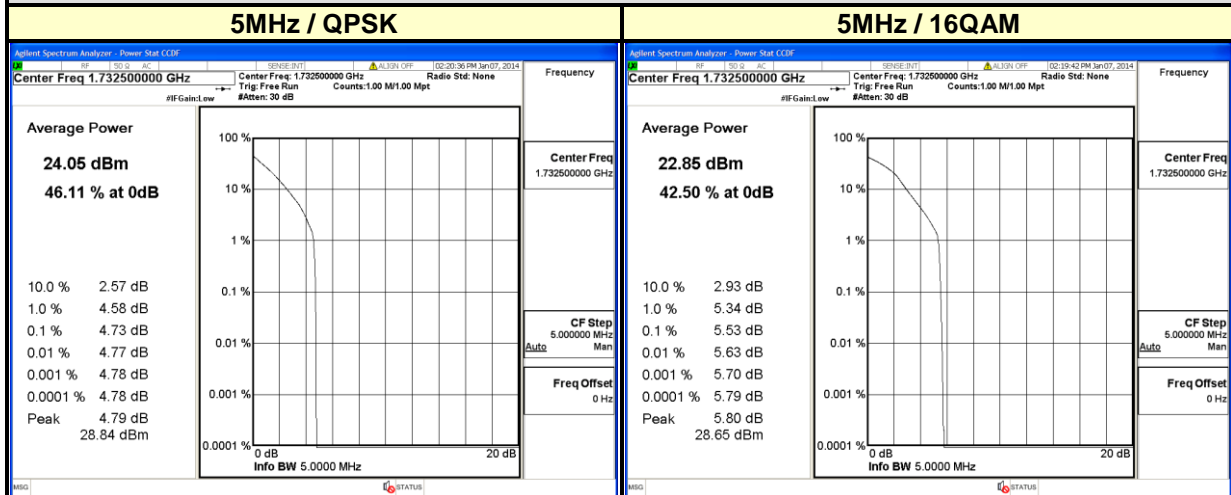




A D T

LTE BAND 4							
CHANNEL BANDWIDTH: 5MHz				CHANNEL BANDWIDTH: 10MHz			
CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)		CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)	
		QPSK	16QAM			QPSK	16QAM
19975	1712.5	4.35	5.52	20000	1715.0	4.38	5.53
20175	1732.5	4.73	5.53	20175	1732.5	4.70	5.55
20375	1752.5	4.60	5.53	20350	1750.0	4.60	5.46

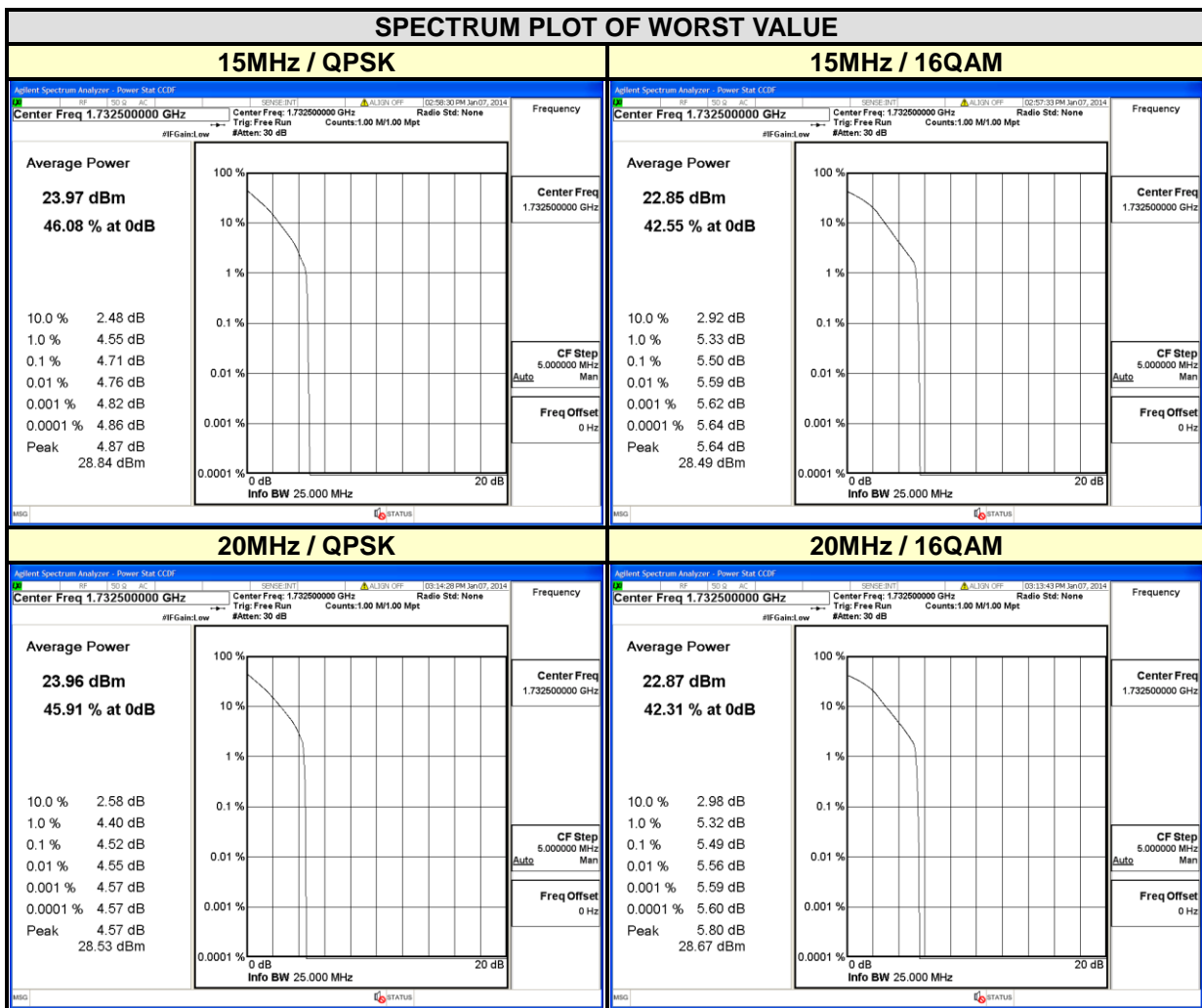
SPECTRUM PLOT OF WORST VALUE





A D T

LTE BAND 4							
CHANNEL BANDWIDTH: 15MHz				CHANNEL BANDWIDTH: 20MHz			
CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)		CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)	
		QPSK	16QAM			QPSK	16QAM
20025	1717.5	4.25	5.45	20050	1720.0	4.00	5.15
20175	1732.5	4.71	5.50	20175	1732.5	4.52	5.49
20325	1747.5	4.41	5.47	20300	1745.0	3.97	5.10



4.5 BAND EDGE MEASUREMENT

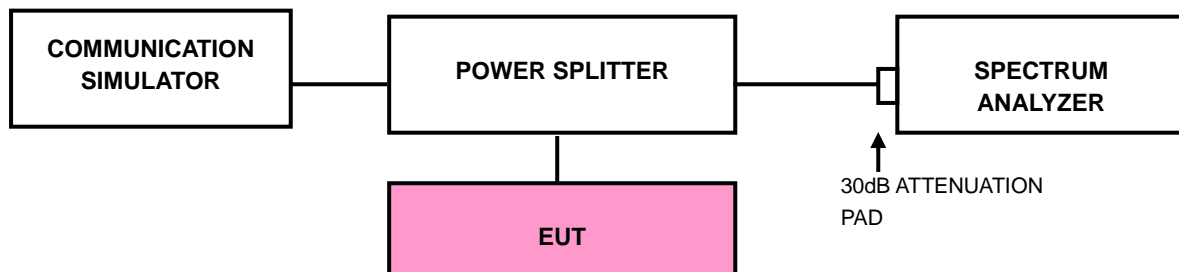
4.5.1 LIMITS OF BAND EDGE MEASUREMENT

For operations in the 704-716 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log (P)$ dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater.

However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

For operations in the 1710 – 1755 MHz MHz bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $43 + 10 \log_{10}(P)$ dB.

4.5.2 TEST SETUP

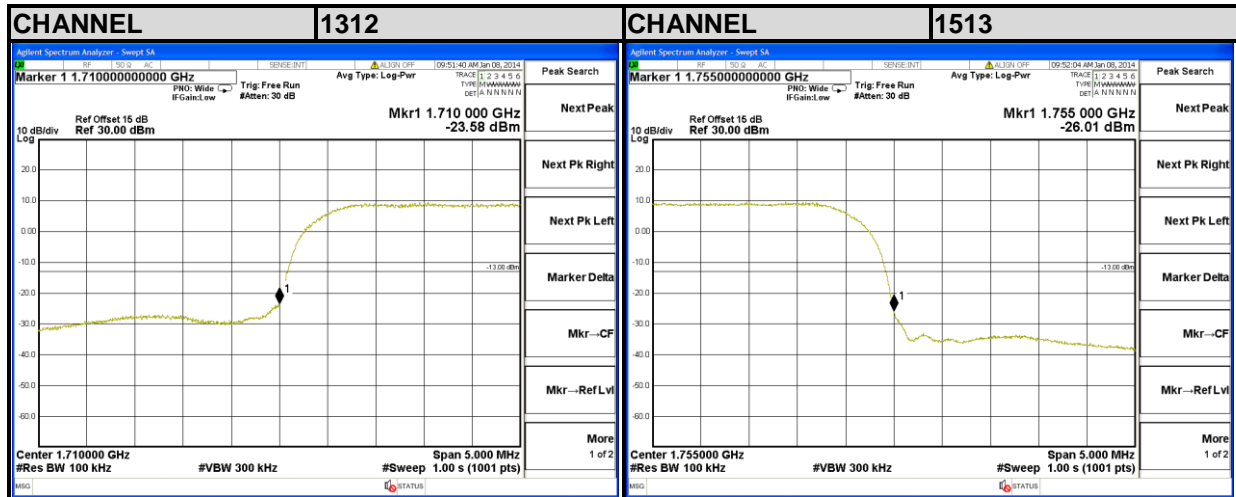


4.5.3 TEST PROCEDURES

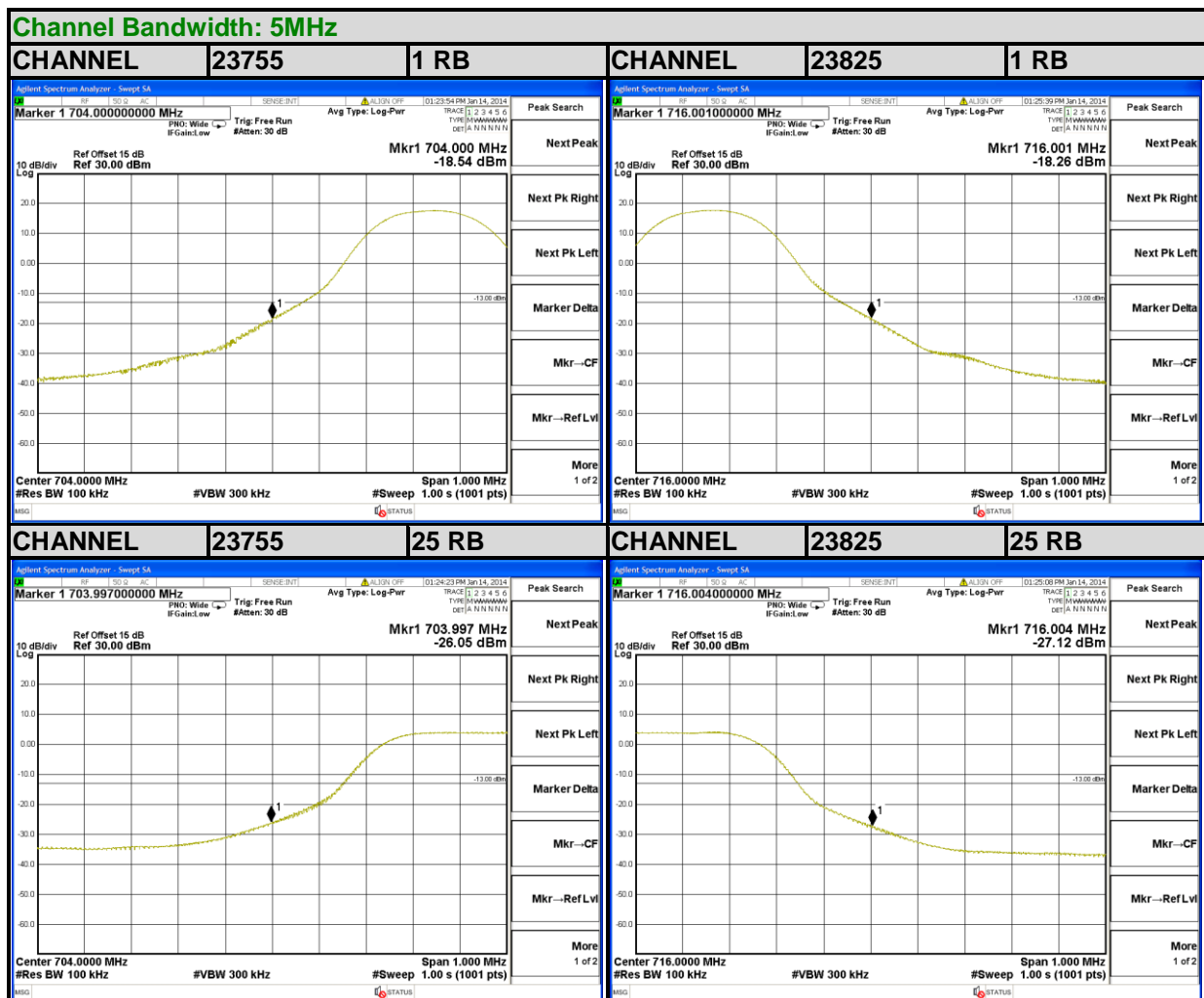
- a. The EUT was set up for the maximum peak power with LTE link data modulation. The power was measured with R&S Spectrum Analyzer. All measurements were done at 2 channels (low and high operational frequency range.).
- b. The band edge measurement used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.
- c. The center frequency of spectrum is the band edge frequency and span is 1 MHz. RB of the spectrum is 100kHz and VB of the spectrum is 300kHz (WCDMA/LTE Band 4 Channel Bandwidth 5MHz and 10MHz).
- d. The center frequency of spectrum is the band edge frequency and span is 5 MHz. RB of the spectrum is 100kHz and VB of the spectrum is 300kHz (LTE Band 17).
- e. The center frequency of spectrum is the band edge frequency and span is 1 MHz. RB of the spectrum is 150kHz and VB of the spectrum is 470kHz (LTE Band 4 Bandwidth 15MHz).
- f. The center frequency of spectrum is the band edge frequency and span is 1 MHz. RB of the spectrum is 180kHz and VB of the spectrum is 560kHz (LTE Band 4 Bandwidth 20MHz).
- g. Record the max trace plot into the test report.

4.5.4 TEST RESULTS

WCDMA



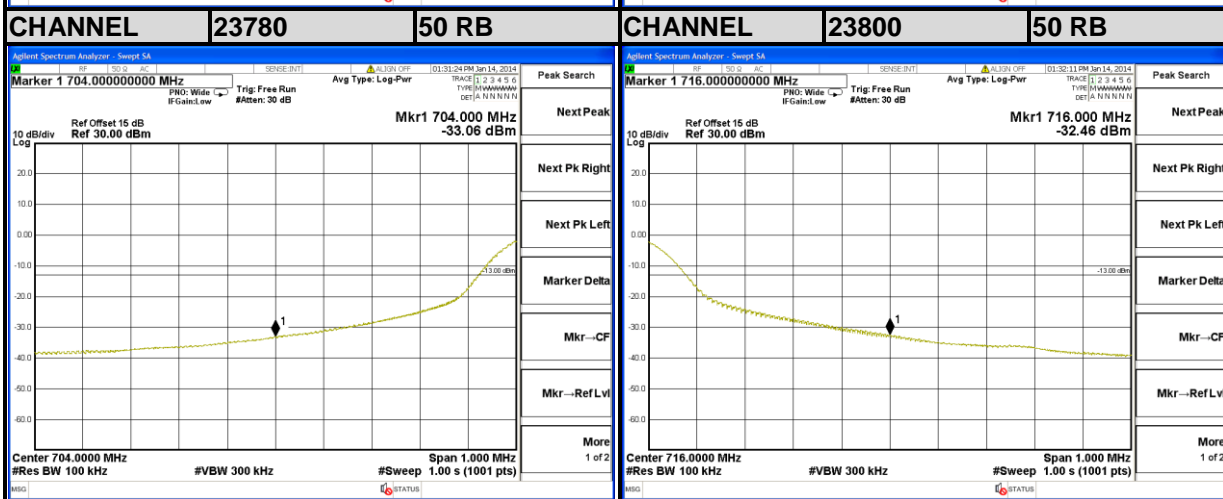
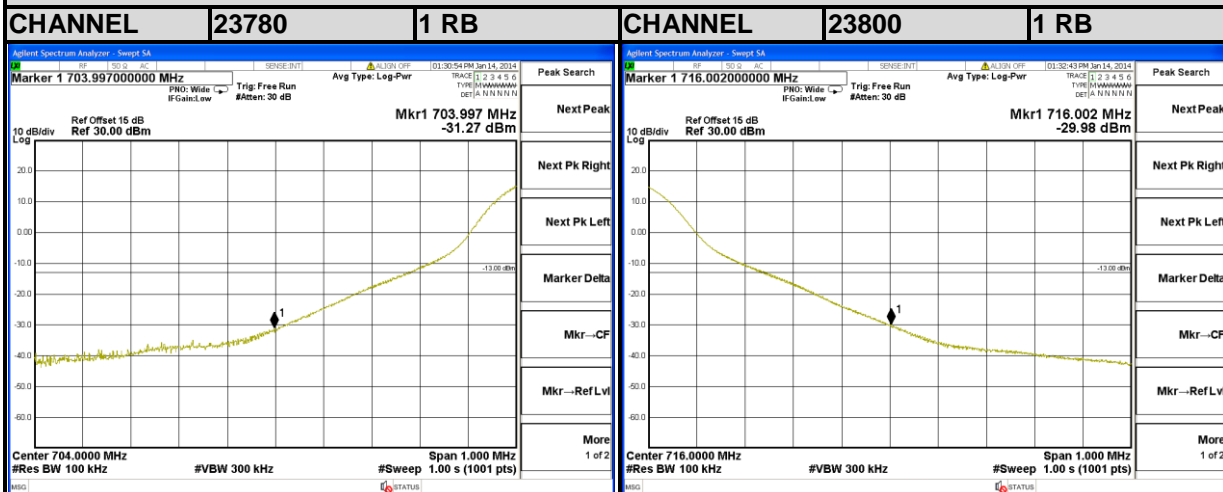
LTE BAND 17



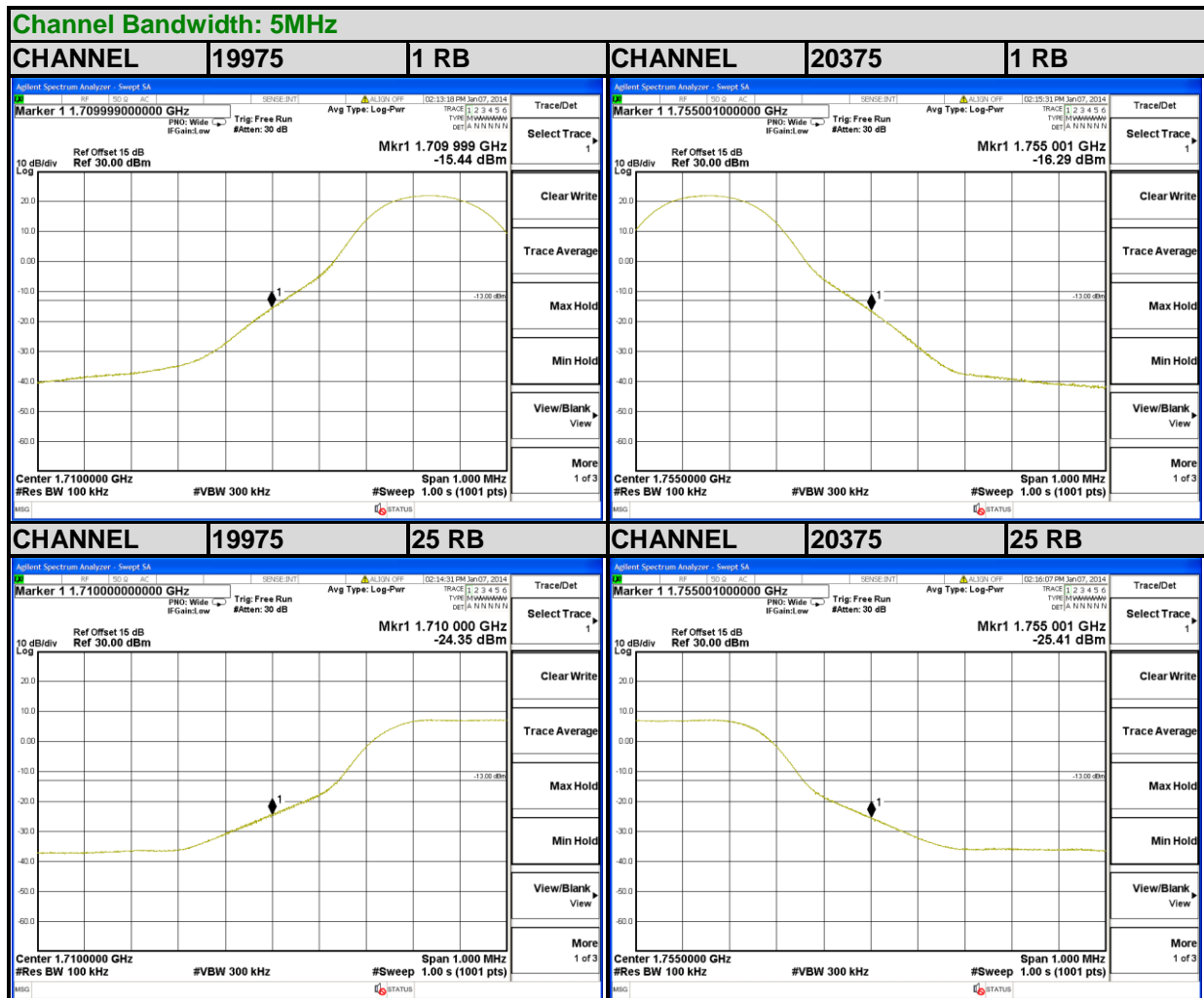


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Channel Bandwidth: 10MHz



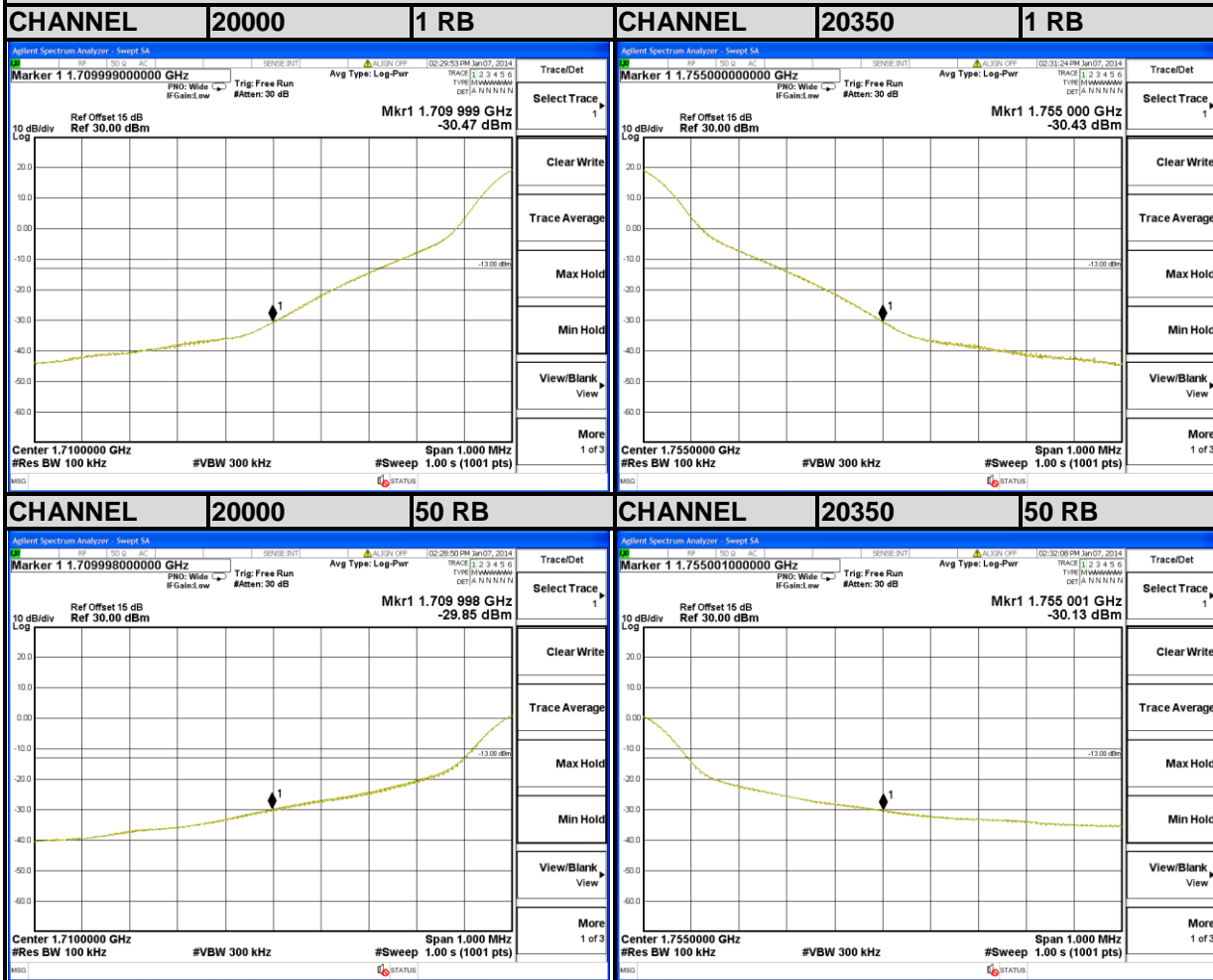
LTE BAND 4





A D T

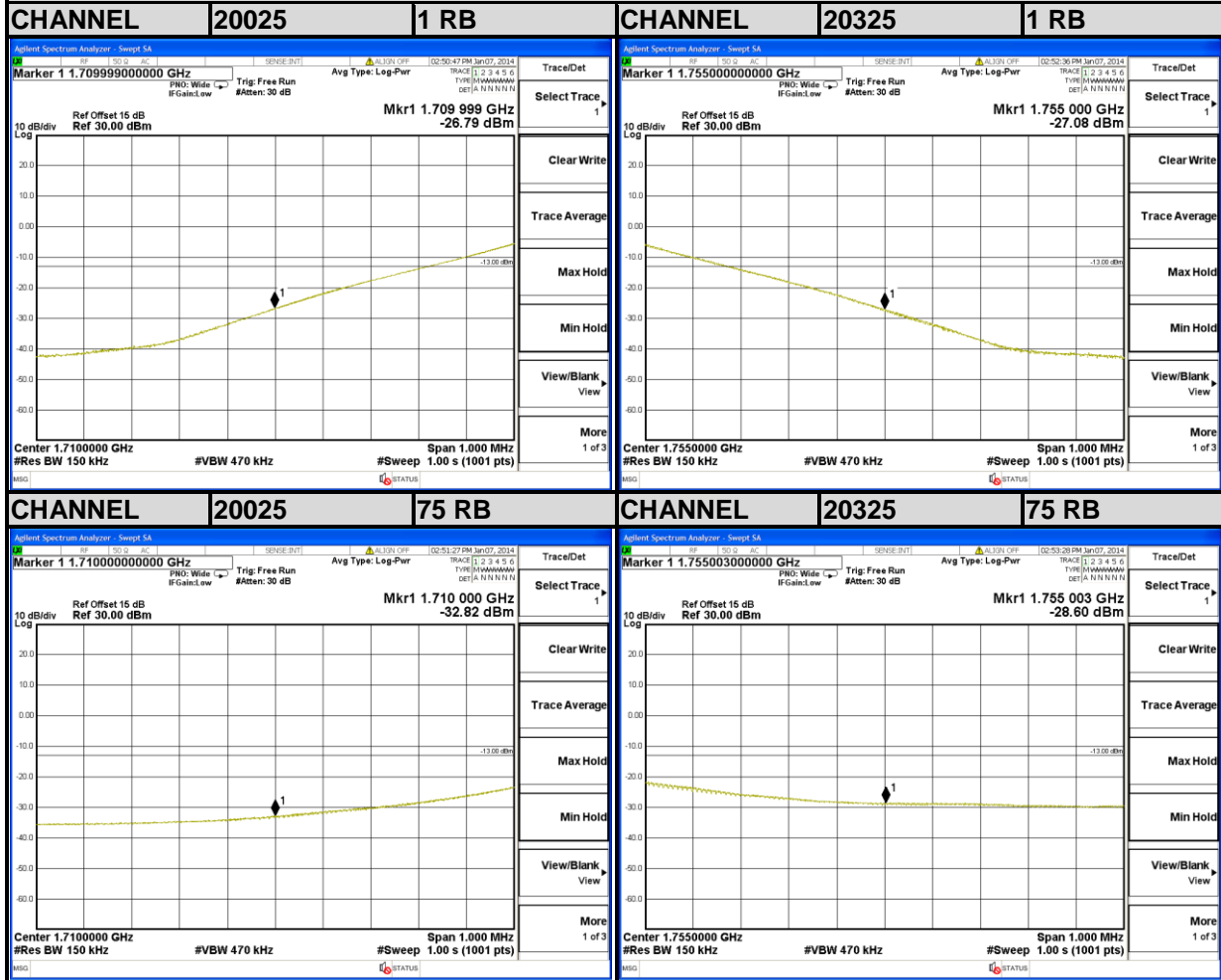
Channel Bandwidth: 10MHz





A D T

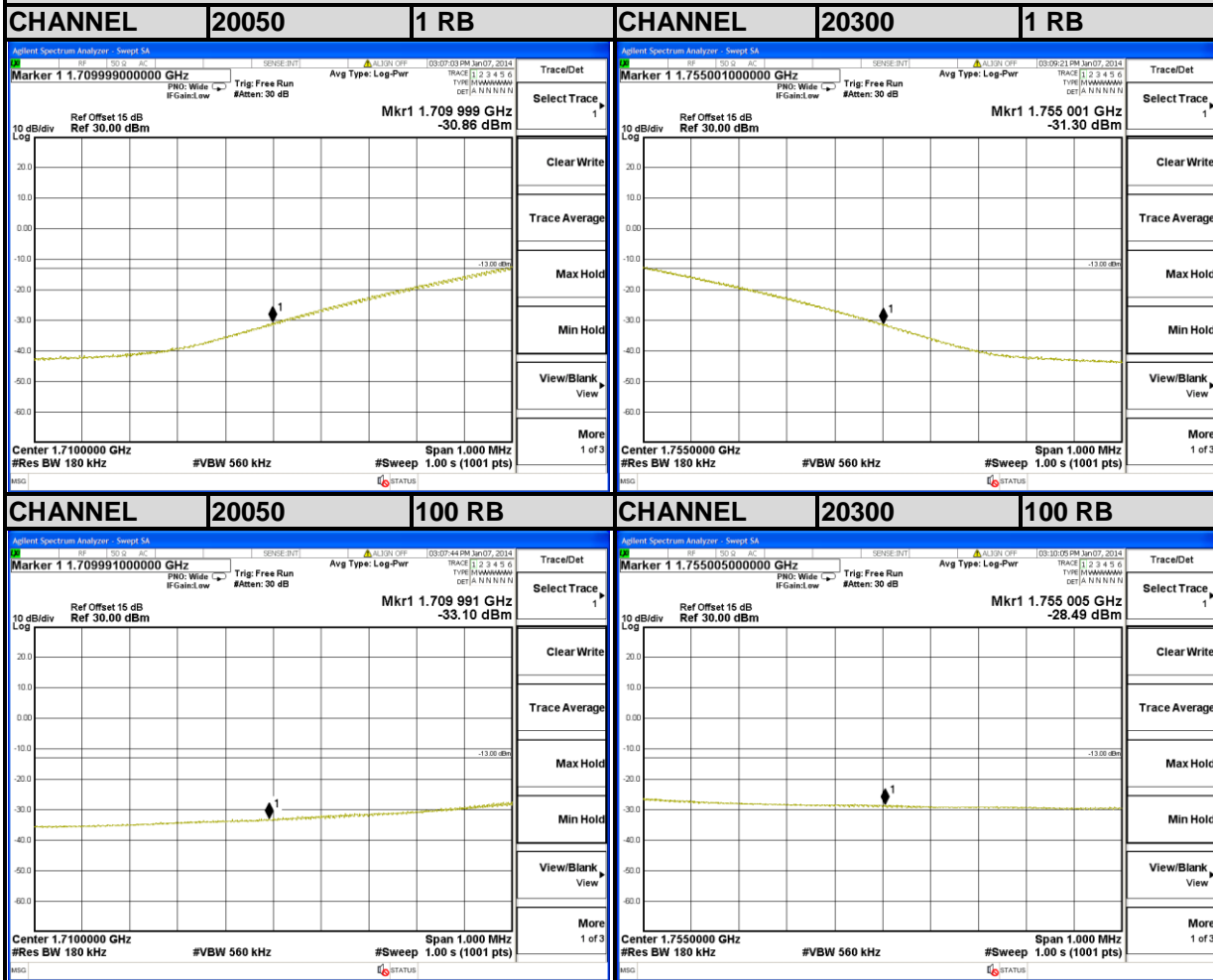
Channel Bandwidth: 15MHz





A D T

Channel Bandwidth: 20MHz



4.6 CONDUCTED SPURIOUS EMISSIONS

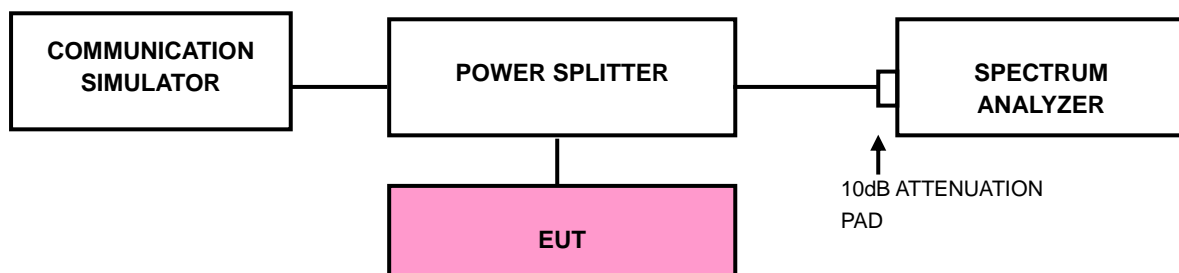
4.6.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $43 + 10 \log_{10}(P)$ dB. The limit of emission equal to -13dBm

4.6.2 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 8GHz for LTE Band 17, and from 30MHz to 18GHz for WCDMA Band 4 and LTE Band 4. 10dB attenuation pad is connected with spectrum. RBW=1MHz and VBW=3MHz are used for conducted emission measurement.

4.6.3 TEST SETUP

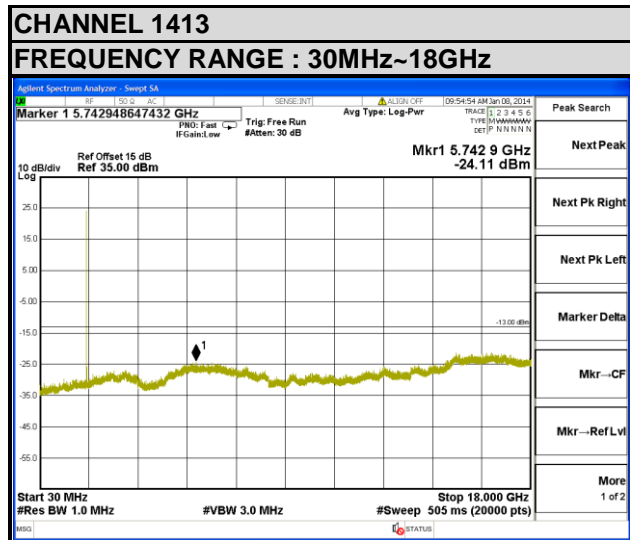




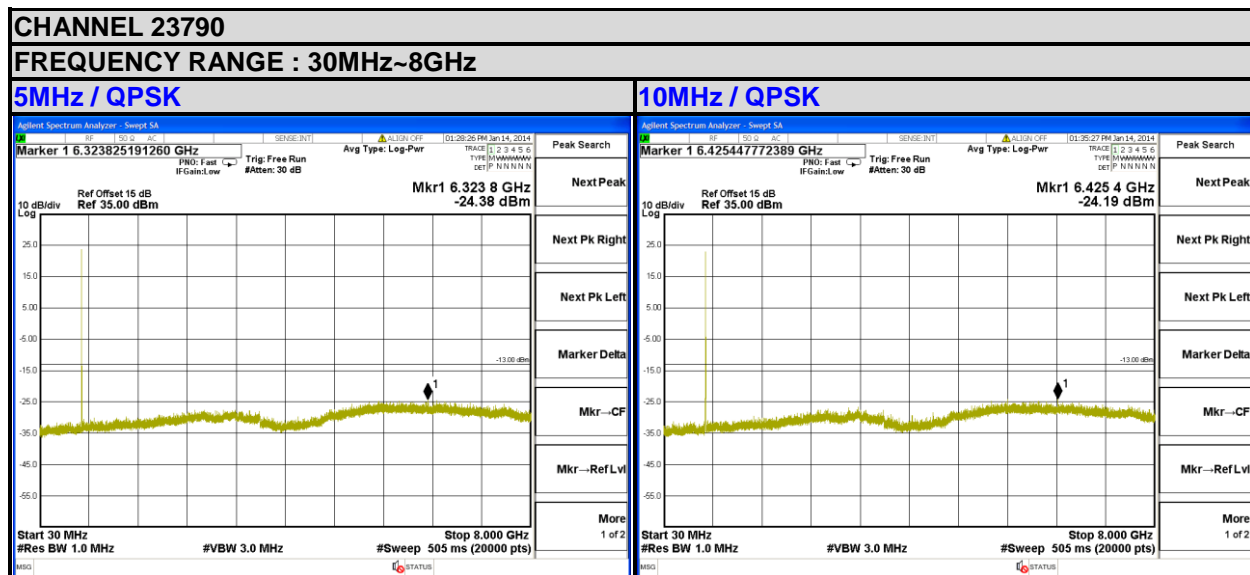
A D T

4.6.4 TEST RESULTS

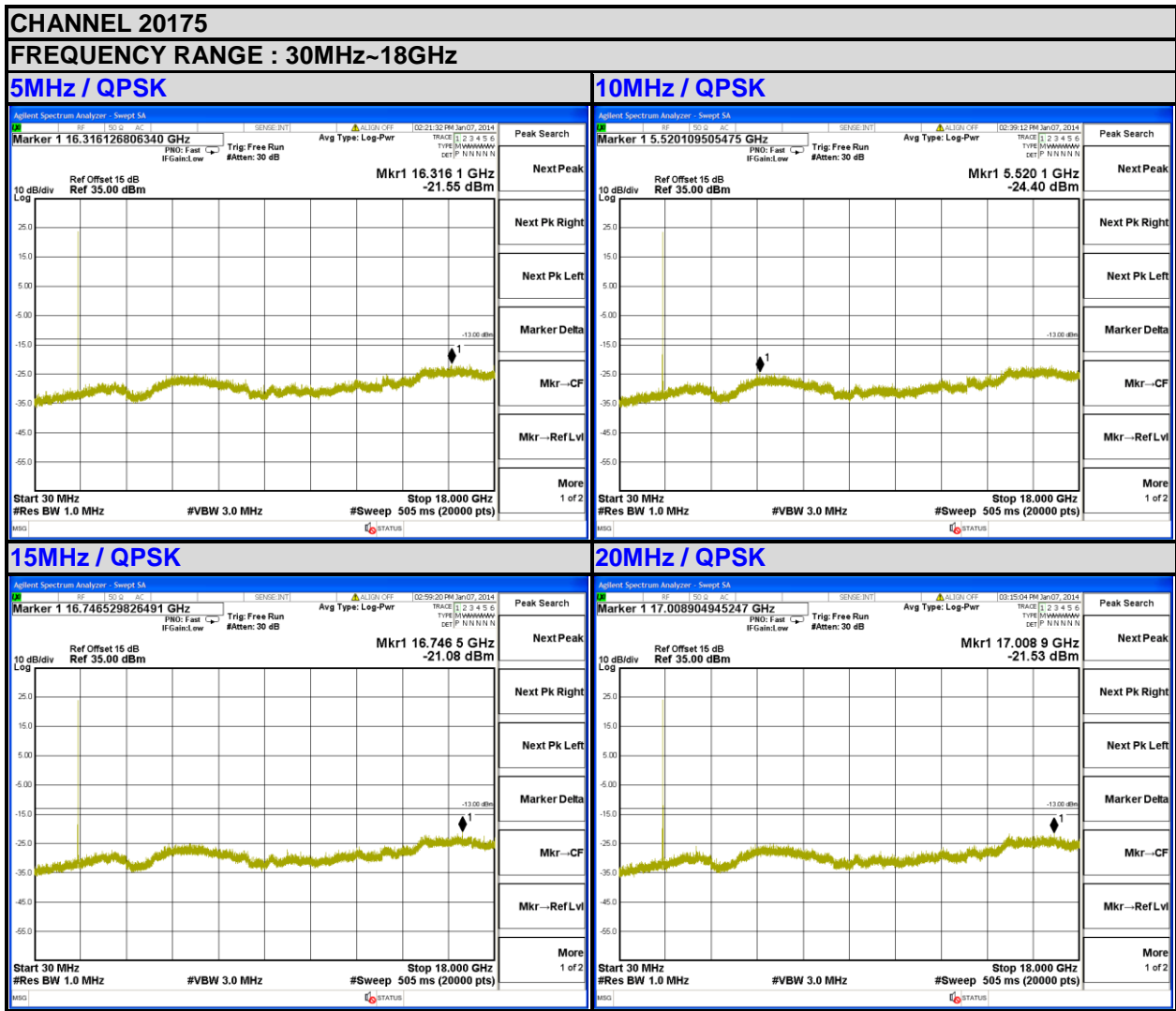
WCDMA



LTE BAND 17



LTE BAND 4



4.7 RADIATED EMISSION MEASUREMENT

4.7.1 LIMITS OF RADIATED EMISSION MEASUREMENT

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $43 + 10 \log_{10}(P)$ dB. The limit of emission equal to -13dBm

4.7.2 TEST PROCEDURES

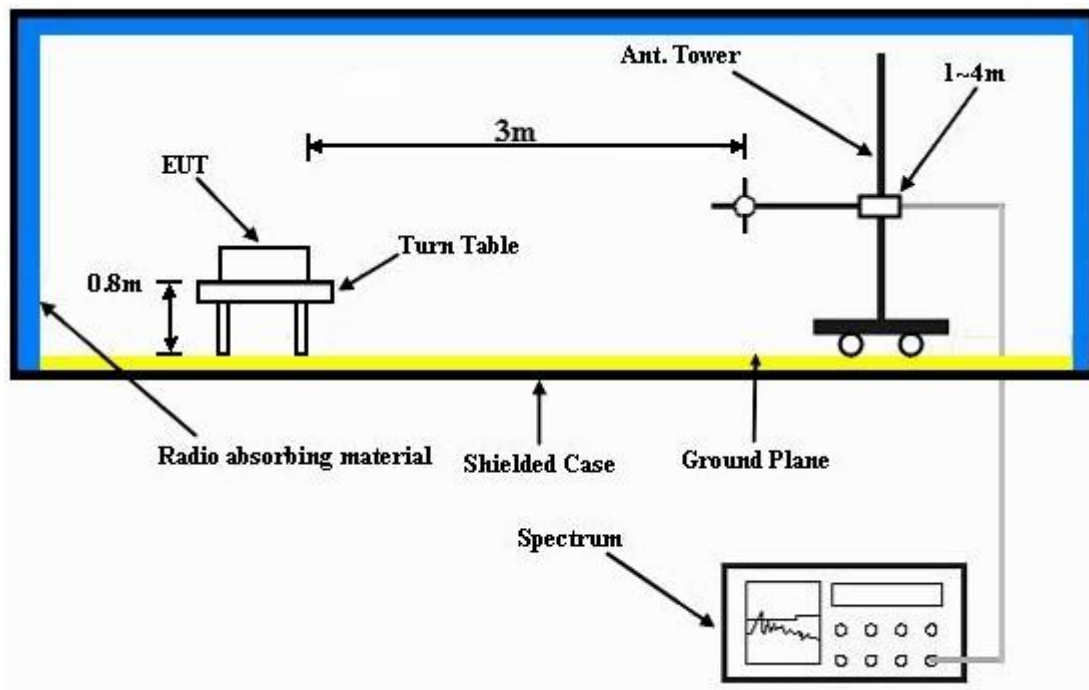
- a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- b. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step a. Record the power level of S.G
- c. $\text{EIRP} = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn.}$
- d. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, $\text{E.R.P power} = \text{E.I.P.R power} - 2.15\text{dBi.}$

NOTE: The resolution bandwidth of spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz.

4.7.3 DEVIATION FROM TEST STANDARD

No deviation

4.7.4 TEST SETUP



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



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4.7.5 TEST RESULTS

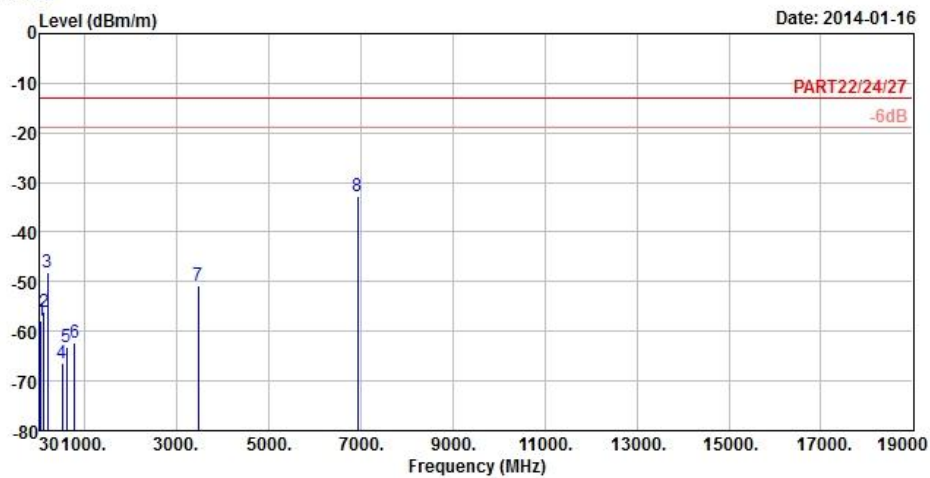
WCDMA



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 15



Site : 966 Chamber 5
 Condition : PART22/24/27 3m HORIZONTAL
 Brand/Model: 0P6B160
 Remark : Band IV_Link
 Tested by : Peter
 Temperature : 25°C
 Humidity : 65%
 Plane : X

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	57.00	-57.97	-52.32	-13.00	-44.97	-5.65	Peak
2	112.35	-55.96	-45.29	-13.00	-42.96	-10.67	Peak
3	198.21	-48.06	-40.34	-13.00	-35.06	-7.72	Peak
4	516.30	-66.45	-63.79	-13.00	-53.45	-2.66	Peak
5	610.10	-63.19	-63.01	-13.00	-50.19	-0.18	Peak
6	787.90	-62.27	-64.31	-13.00	-49.27	2.04	Peak
7	3465.20	-50.87	-41.85	-13.00	-37.87	-9.02	Peak
8 pp	6930.40	-32.79	-35.09	-13.00	-19.79	2.30	Peak



A D T

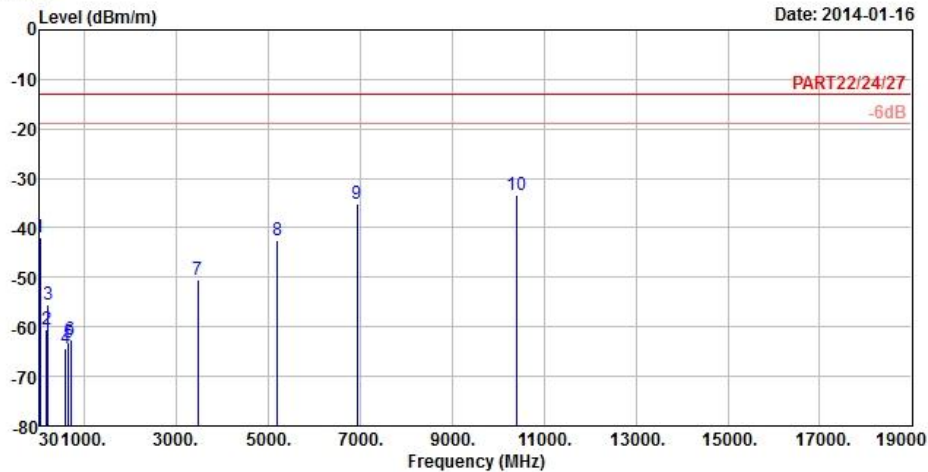


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 16

Date: 2014-01-16



Site : 966 Chamber 5
 Condition : PART22/24/27 3m VERTICAL
 Brand/Model: 0P6B160
 Remark : Band IV_Link
 Tested by : Peter
 Temperature : 25°C
 Humidity : 65%
 Plane : X

	Freq	Level	Read	Limit	Over		
	MHz	dBm/m	Level	Line	Limit	Factor	Remark
			dBm	dBm/m	dB	dB/m	
1	31.62	-42.04	-41.65	-13.00	-29.04	-0.39	Peak
2	176.88	-60.40	-53.98	-13.00	-47.40	-6.42	Peak
3	213.87	-55.64	-48.34	-13.00	-42.64	-7.30	Peak
4	591.20	-64.33	-63.74	-13.00	-51.33	-0.59	Peak
5	647.20	-63.03	-63.52	-13.00	-50.03	0.49	Peak
6	709.50	-62.66	-64.18	-13.00	-49.66	1.52	Peak
7	3465.20	-50.50	-41.48	-13.00	-37.50	-9.02	Peak
8	5197.80	-42.57	-39.51	-13.00	-29.57	-3.06	Peak
9	6930.40	-35.22	-37.52	-13.00	-22.22	2.30	Peak
10 pp	10395.60	-33.44	-40.57	-13.00	-20.44	7.13	Peak



A D T

LTE BAND 17

CHANNEL BANDWIDTH: 5MHz / QPSK

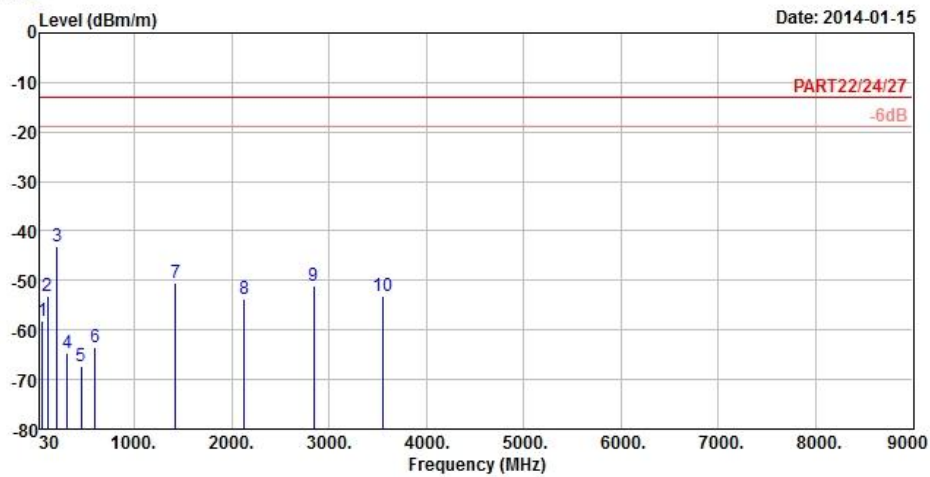


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 9

Date: 2014-01-15



Site : 966 Chamber 5
 Condition : PART22/24/27 3m HORIZONTAL
 Brand/Model: 0P6B160
 Remark : LTE Band 17_QPSK 5M(1,12)_Link
 Tested by : Johnson Liao
 Temperature : 25°C
 Humidity : 65%
 Plane : Y

	Read	Limit	Over				
Freq	Level	Level	Line	Limit	Factor	Remark	
MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	57.81	-58.17	-52.37	-13.00	-45.17	-5.80	Peak
2	109.38	-53.17	-42.56	-13.00	-40.17	-10.61	Peak
3 pp	207.12	-42.99	-35.39	-13.00	-29.99	-7.60	Peak
4	314.00	-64.60	-58.33	-13.00	-51.60	-6.27	Peak
5	456.80	-67.26	-63.07	-13.00	-54.26	-4.19	Peak
6	597.50	-63.52	-63.09	-13.00	-50.52	-0.43	Peak
7	1420.00	-50.44	-36.85	-13.00	-37.44	-13.59	Peak
8	2130.00	-53.85	-42.13	-13.00	-40.85	-11.72	Peak
9	2840.00	-51.21	-41.47	-13.00	-38.21	-9.74	Peak
10	3550.00	-53.24	-44.40	-13.00	-40.24	-8.84	Peak



A D T

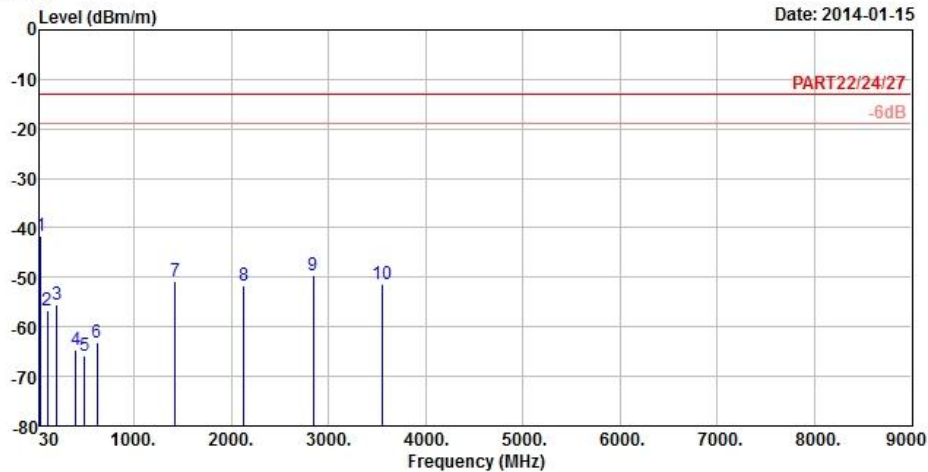


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 10

Date: 2014-01-15



Site : 966 Chamber 5
 Condition : PART22/24/27 3m VERTICAL
 Brand/Model: 0P6B160
 Remark : LTE Band 17_QPSK 5M(1,12)_Link
 Tested by : Johnson Liao
 Temperature : 25°C
 Humidity : 65%
 Plane : Y

	Freq	Level	Read	Limit	Over	
	MHz	dBm/m	Level	Line	Limit	Factor Remark
			dBm	dBm/m	dB	dB/m
1	pp	40.26	-41.56	-40.10	-13.00	-28.56 -1.46 Peak
2		108.30	-56.64	-46.05	-13.00	-43.64 -10.59 Peak
3		201.45	-55.40	-47.54	-13.00	-42.40 -7.86 Peak
4		400.10	-64.64	-59.02	-13.00	-51.64 -5.62 Peak
5		489.00	-65.85	-62.47	-13.00	-52.85 -3.38 Peak
6		617.10	-63.23	-63.18	-13.00	-50.23 -0.05 Peak
7		1420.00	-50.72	-37.13	-13.00	-37.72 -13.59 Peak
8		2130.00	-51.67	-39.95	-13.00	-38.67 -11.72 Peak
9		2840.00	-49.67	-39.93	-13.00	-36.67 -9.74 Peak
10		3550.00	-51.47	-42.63	-13.00	-38.47 -8.84 Peak

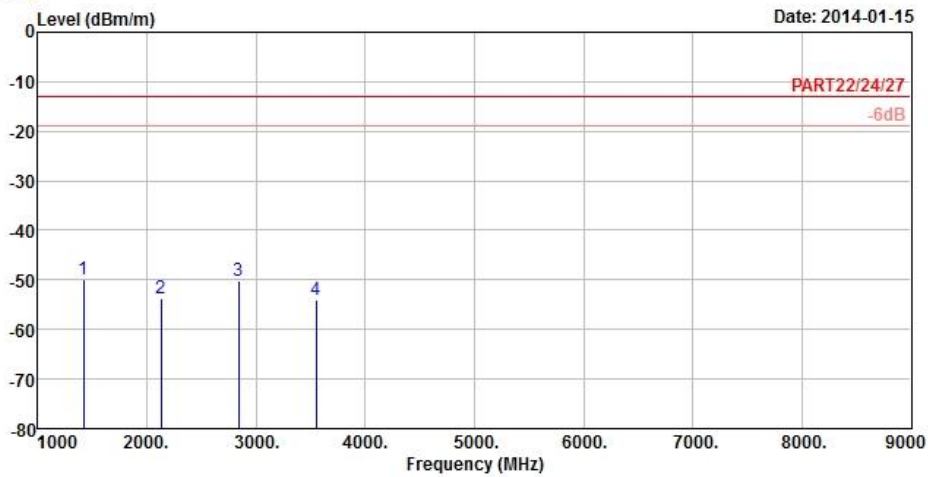
CHANNEL BANDWIDTH: 10MHz / QPSK



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5



Site : 966 Chamber 5
 Condition : PART22/24/27 3m HORIZONTAL
 Brand/Model: 0P6B160
 Remark : LTE Band 17_QPSK 10M(1,24)_Link
 Tested by : Johnson Liao
 Temperature : 25°C
 Humidity : 65%
 Plane : Y

	Freq	Level	Read	Limit	Over		
	MHz	dBm/m	Level	Line	Limit	Factor	Remark
			dBm	dBm/m	dB	dB/m	
1 pp	1420.00	-49.90	-36.31	-13.00	-36.90	-13.59	Peak
2	2130.00	-53.73	-42.01	-13.00	-40.73	-11.72	Peak
3	2840.00	-50.15	-40.41	-13.00	-37.15	-9.74	Peak
4	3550.00	-54.10	-45.26	-13.00	-41.10	-8.84	Peak



A D T

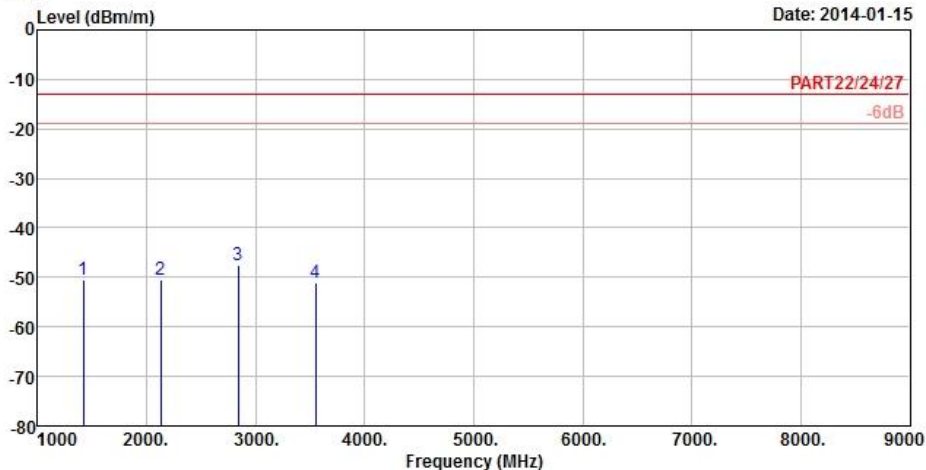


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6

Date: 2014-01-15



Site : 966 Chamber 5
 Condition : PART22/24/27 3m VERTICAL
 Brand/Model: 0P6B160
 Remark : LTE Band 17_QPSK 10M(1,24)_Link
 Tested by : Johnson Liao
 Temperature : 25°C
 Humidity : 65%
 Plane : Y

	Freq	Level	Read	Limit	Over	
	MHz	dBm/m	Level	Line	Limit	Factor Remark
			dBm	dBm/m	dB	dB/m
1	1420.00	-50.49	-36.90	-13.00	-37.49	-13.59 Peak
2	2130.00	-50.60	-38.88	-13.00	-37.60	-11.72 Peak
3 pp	2840.00	-47.45	-37.71	-13.00	-34.45	-9.74 Peak
4	3550.00	-51.20	-42.36	-13.00	-38.20	-8.84 Peak

LTE BAND 4

CHANNEL BANDWIDTH: 5MHz / QPSK

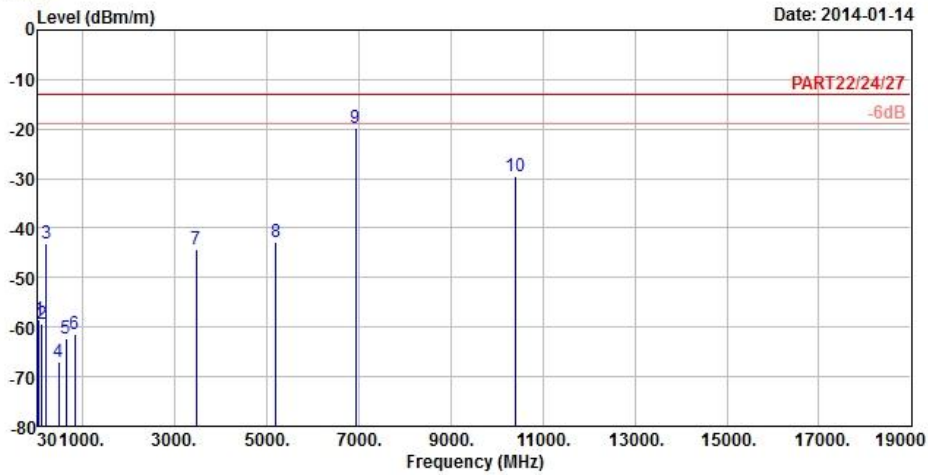


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 15

Date: 2014-01-14



Site : 966 Chamber 5
 Condition : PART22/24/27 3m HORIZONTAL
 Brand/Model: 0P6B160
 Remark : LTE Band 4_QPSK 5M(1,12)_Link
 Tested by : Peter
 Temperature : 25°C
 Humidity : 65%
 Plane : Z

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	57.27	-58.59	-52.94	-13.00	-45.59	-5.65	Peak
2	114.24	-59.19	-48.48	-13.00	-46.19	-10.71	Peak
3	208.20	-43.14	-35.58	-13.00	-30.14	-7.56	Peak
4	474.30	-66.97	-63.22	-13.00	-53.97	-3.75	Peak
5	644.40	-62.18	-62.62	-13.00	-49.18	0.44	Peak
6	822.20	-61.35	-63.61	-13.00	-48.35	2.26	Peak
7	3465.00	-44.34	-35.32	-13.00	-31.34	-9.02	Peak
8	5197.50	-42.95	-39.89	-13.00	-29.95	-3.06	Peak
9 pp	6932.00	-19.75	-22.14	-13.00	-6.75	2.39	Peak
10	10395.00	-29.52	-36.65	-13.00	-16.52	7.13	Peak



A D T

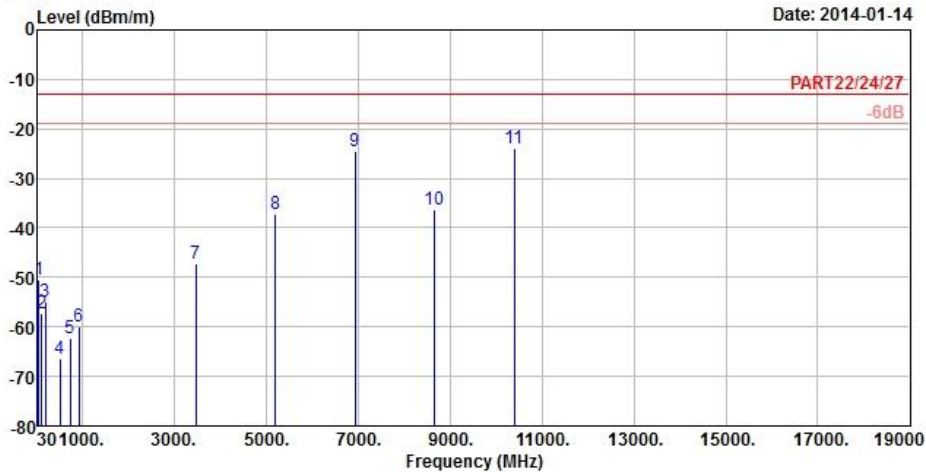


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 16

Date: 2014-01-14



Site : 966 Chamber 5
 Condition : PART22/24/27 3m VERTICAL
 Brand/Model: 0P6B160
 Remark : LTE Band 4_QPSK 5M(1,12)_Link
 Tested by : Peter
 Temperature : 25°C
 Humidity : 65%
 Plane : Z

	Read	Limit	Over			
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	56.46	-50.61	-45.11	-13.00	-37.61	-5.50 Peak
2	109.65	-57.14	-46.53	-13.00	-44.14	-10.61 Peak
3	196.86	-54.90	-47.29	-13.00	-41.90	-7.61 Peak
4	514.20	-66.35	-63.63	-13.00	-53.35	-2.72 Peak
5	730.50	-62.33	-63.98	-13.00	-49.33	1.65 Peak
6	932.80	-59.93	-63.28	-13.00	-46.93	3.35 Peak
7	3465.00	-47.23	-38.21	-13.00	-34.23	-9.02 Peak
8	5197.50	-37.10	-34.04	-13.00	-24.10	-3.06 Peak
9	6930.00	-24.55	-26.85	-13.00	-11.55	2.30 Peak
10	8662.50	-36.31	-41.26	-13.00	-23.31	4.95 Peak
11 pp	10395.00	-24.02	-31.15	-13.00	-11.02	7.13 Peak



A D T

CHANNEL BANDWIDTH: 10MHz / QPSK

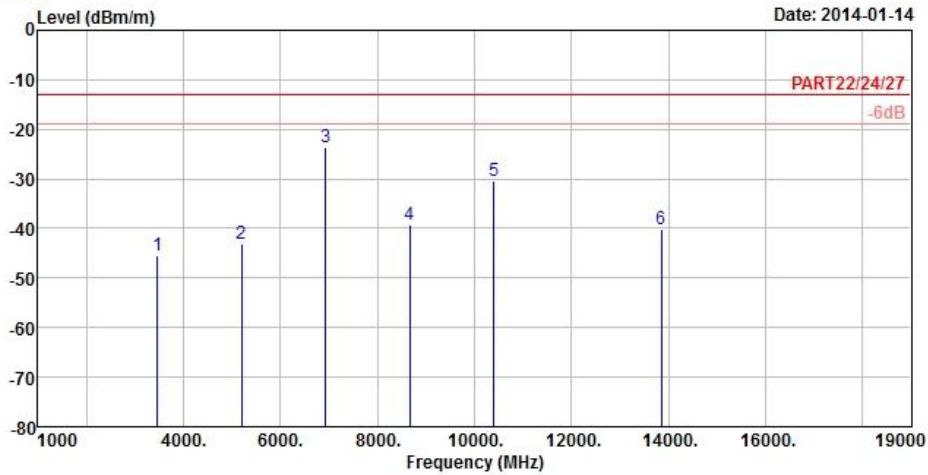


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 11

Date: 2014-01-14



Site : 966 Chamber 5
 Condition : PART22/24/27 3m HORIZONTAL
 Brand/Model: 0P6B160
 Remark : LTE Band 4_QPSK 10M(1,24)_Link
 Tested by : Peter
 Temperature : 25°C
 Humidity : 65%
 Plane : Z

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	3465.00	-45.54	-36.52	-13.00	-32.54	-9.02	Peak
2	5197.50	-43.13	-40.07	-13.00	-30.13	-3.06	Peak
3 pp	6930.00	-23.71	-26.01	-13.00	-10.71	2.30	Peak
4	8662.50	-39.38	-44.33	-13.00	-26.38	4.95	Peak
5	10395.00	-30.33	-37.46	-13.00	-17.33	7.13	Peak
6	13860.00	-40.19	-48.06	-13.00	-27.19	7.87	Peak



A D T

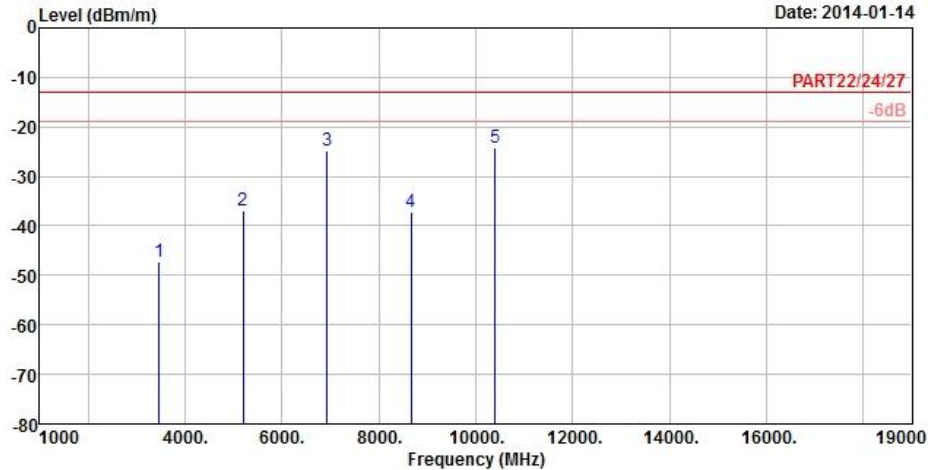


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 12

Date: 2014-01-14



Site : 966 Chamber 5
 Condition : PART22/24/27 3m VERTICAL
 Brand/Model: 0P6B160
 Remark : LTE Band 4_QPSK 10M(1,24)_Link
 Tested by : Peter
 Temperature : 25°C
 Humidity : 65%
 Plane : Z

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	3465.00	-47.30	-38.28	-13.00	-34.30	-9.02	Peak
2	5197.50	-36.79	-33.73	-13.00	-23.79	-3.06	Peak
3	6930.00	-24.75	-27.05	-13.00	-11.75	2.30	Peak
4	8662.50	-37.19	-42.14	-13.00	-24.19	4.95	Peak
5	pp 10395.00	-24.19	-31.32	-13.00	-11.19	7.13	Peak



A D T

CHANNEL BANDWIDTH: 15MHz / QPSK

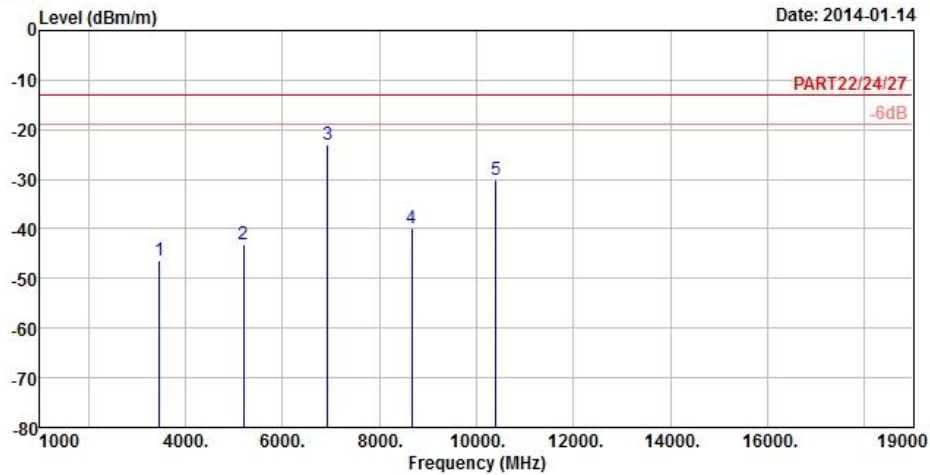


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 11

Date: 2014-01-14



Site : 966 Chamber 5
 Condition : PART22/24/27 3m HORIZONTAL
 Brand/Model: 0P6B160
 Remark : LTE Band 4_QPSK 15M(1,37)_Link
 Tested by : Peter
 Temperature : 25°C
 Humidity : 65%
 Plane : Z

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	3465.00	-46.20	-37.18	-13.00	-33.20	-9.02	Peak
2	5197.50	-43.13	-40.07	-13.00	-30.13	-3.06	Peak
3 pp	6930.00	-23.10	-25.40	-13.00	-10.10	2.30	Peak
4	8662.50	-39.80	-44.75	-13.00	-26.80	4.95	Peak
5	10395.00	-30.21	-37.34	-13.00	-17.21	7.13	Peak



A D T

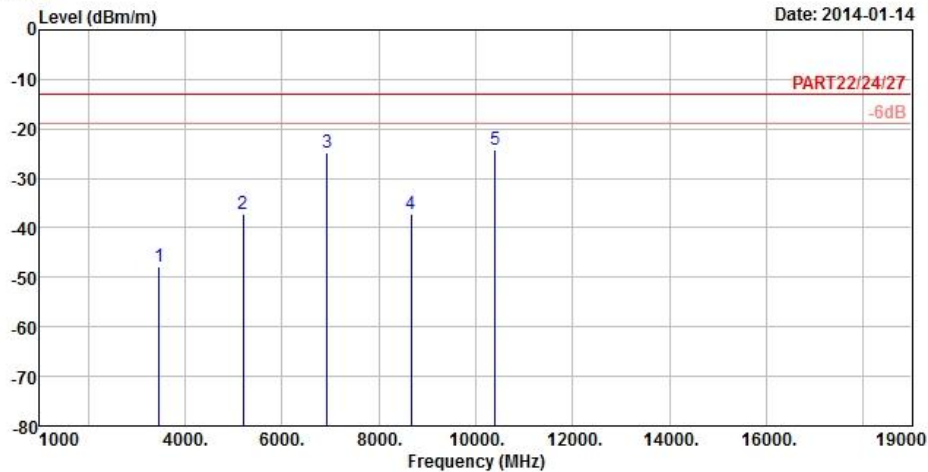


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 12

Date: 2014-01-14



Site : 966 Chamber 5
 Condition : PART22/24/27 3m VERTICAL
 Brand/Model: 0P6B160
 Remark : LTE Band 4_QPSK 15M(1,37)_Link
 Tested by : Peter
 Temperature : 25°C
 Humidity : 65%
 Plane : Z

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	3465.00	-47.92	-38.90	-13.00	-34.92	-9.02	Peak
2	5197.50	-37.30	-34.24	-13.00	-24.30	-3.06	Peak
3	6930.00	-24.66	-26.96	-13.00	-11.66	2.30	Peak
4	8662.50	-37.28	-42.23	-13.00	-24.28	4.95	Peak
5 pp	10395.00	-24.17	-31.30	-13.00	-11.17	7.13	Peak



A D T

CHANNEL BANDWIDTH: 20MHz / QPSK

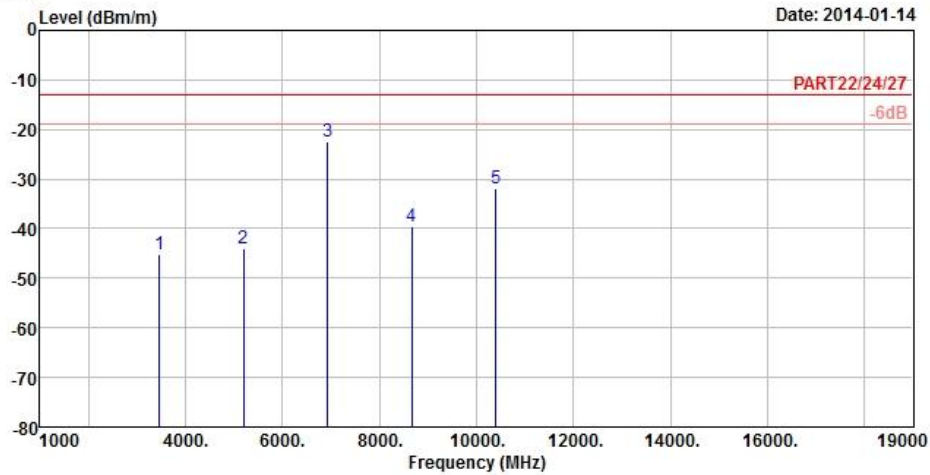


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 11

Date: 2014-01-14



Site : 966 Chamber 5
 Condition : PART22/24/27 3m HORIZONTAL
 Brand/Model: 0P6B160
 Remark : LTE Band 4_QPSK 20M(1,50)_Link
 Tested by : Peter
 Temperature : 25°C
 Humidity : 65%
 Plane : Z

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	3465.00	-45.06	-36.04	-13.00	-32.06	-9.02	Peak
2	5197.50	-44.08	-41.02	-13.00	-31.08	-3.06	Peak
3 pp	6930.00	-22.45	-24.75	-13.00	-9.45	2.30	Peak
4	8662.50	-39.60	-44.55	-13.00	-26.60	4.95	Peak
5	10395.00	-31.79	-38.92	-13.00	-18.79	7.13	Peak



A D T

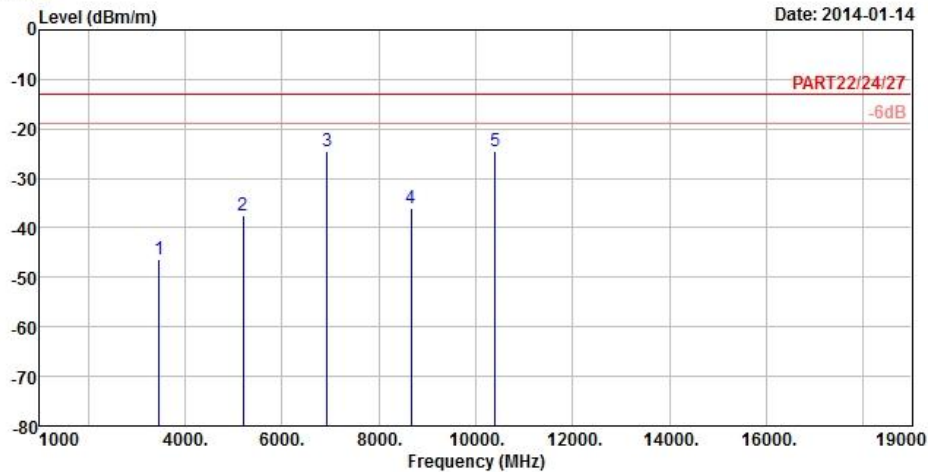


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 12

Date: 2014-01-14



Site : 966 Chamber 5
 Condition : PART22/24/27 3m VERTICAL
 Brand/Model: 0P6B160
 Remark : LTE Band 4_QPSK 20M(1,50)_Link
 Tested by : Peter
 Temperature : 25°C
 Humidity : 65%
 Plane : Z

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	3465.00	-46.44	-37.42	-13.00	-33.44	-9.02	Peak
2	5197.50	-37.54	-34.48	-13.00	-24.54	-3.06	Peak
3	6930.00	-24.58	-26.88	-13.00	-11.58	2.30	Peak
4	8662.50	-36.01	-40.96	-13.00	-23.01	4.95	Peak
5 pp	10395.00	-24.49	-31.62	-13.00	-11.49	7.13	Peak

5 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

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Web Site: www.adt.com.tw

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



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6 APPENDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

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

---END---