



Test Report No.: RF141120N008-3



FCC TEST REPORT

(PART 27)

Product: Mobile Hotspot Folio

Model No.: Y8600A

FCC ID: 2ACCJB005

Applicant: TCL Communication Ltd.

Address: 5F, C-Tower, No.232, Liangjing Road, Zhangjiang High-tech Park,
Pudong, Shanghai, China

Manufacturer: TCL Mobile Communication Co. Ltd. Huizhou

Address: 70 Huifeng 4rd., ZhongKai High-Technology Development District,
Huizhou, Guangdong, PRC. 516006

Prepared by: Bureau Veritas Shenzhen Co., Ltd. Dongguan Branch

Lab Location: No. 34, Chenwulu Section, Guantai Rd., Houjie Town, Dongguan
City, Guangdong 523942, China

TEL: +86 769 8593 5656

FAX: +86 769 8593 1080

E-MAIL: customerservice.dg@cn.bureauveritas.com

Report No.: RF141120N008-2

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Issued Date: Dec. 02, 2014

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Bureau Veritas Shenzhen Co., Ltd.
Dongguan Branch

No. 34, Chenwulu Section, Guantai Rd.,
Houjie Town, Dongguan City,
Guangdong 523942, China

Tel: +86 769 8593 5656
Fax: +86 769 8593 1080
Email: customerservice.dg@cn.bureauveritas.com



Test Report No.: RF141120N008-3

TABLE OF CONTENTS

RELEASE CONTROL RECORD	4
1 CERTIFICATION	5
2 SUMMARY OF TEST RESULTS	6
2.1 MEASUREMENT UNCERTAINTY	6
2.2 TEST SITE AND INSTRUMENTS	7
3 GENERAL INFORMATION.....	8
3.1 GENERAL DESCRIPTION OF EUT	8
3.2 CONFIGURATION OF SYSTEM UNDER TEST	10
3.3 DESCRIPTION OF SUPPORT UNITS	11
3.4 DESCRIPTION OF TEST MODES	11
3.5 GENERAL DESCRIPTION OF APPLIED STANDARDS	15
4 TEST TYPES AND RESULTS	16
4.1 OUTPUT POWER MEASUREMENT	16
4.1.1 LIMITS OF OUTPUT POWER MEASUREMENT	16
4.1.2 TEST PROCEDURES	16
4.1.3 TEST SETUP	17
4.1.4 TEST RESULTS	18
4.2 FREQUENCY STABILITY MEASUREMENT	31
4.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT	31
4.2.2 TEST PROCEDURE	31
4.2.3 TEST SETUP	31
4.2.4 TEST RESULTS	32
4.3 OCCUPIED BANDWIDTH MEASUREMENT	34
4.3.1 LIMITS OF OCCUPIED BANDWIDTH MEASUREMENT	34
4.3.2 TEST SETUP	34
4.3.3 TEST PROCEDURES	34
4.3.4 TEST RESULTS	35
4.4 PEAK TO AVERAGE RATIO	39
4.4.1 LIMITS OF PEAK TO AVERAGE RATIO MEASUREMENT	39
4.4.2 TEST SETUP	39
4.4.3 TEST PROCEDURES	39
4.4.4 TEST RESULTS	40
4.5 BAND EDGE MEASUREMENT	48
4.5.1 LIMITS OF BAND EDGE MEASUREMENT	48
4.5.2 TEST SETUP	48
4.5.3 TEST PROCEDURES	48
4.5.4 TEST RESULTS	50
4.6 CONDUCTED SPURIOUS EMISSIONS	58
4.6.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT	58
4.6.2 TEST PROCEDURE	58
4.6.3 TEST SETUP	58
4.6.4 TEST RESULTS	59
4.7 RADIATED EMISSION MEASUREMENT	61
4.7.1 LIMITS OF RADIATED EMISSION MEASUREMENT	61
4.7.2 TEST PROCEDURES	61
4.7.3 DEVIATION FROM TEST STANDARD	61
4.7.4 TEST SETUP	62



Test Report No.: RF141120N008-3

4.7.5	TEST RESULTS	63
5	INFORMATION ON THE TESTING LABORATORIES	75
6	APPENDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB	76



Test Report No.: RF141120N008-3

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF141120N008-3	Original release	Dec. 02, 2014



Test Report No.: RF141120N008-3

1 CERTIFICATION

PRODUCT: Mobile Hotspot Folio

BRAND: ALCATEL ONETOUCH

MODEL NO.: Y860OA

APPLICANT: TCL Communication Ltd.

TESTED: Nov. 20, 2014 ~ Dec. 01, 2014

TEST SAMPLE: PRODUCT UNIT

TEST STANDARDS: FCC Part 27, Subpart C, L

FCC Part 2

ANSI C63.4-2003

The above equipment has been tested by **Bureau Veritas Shenzhen Co., Ltd. Dongguan 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.

TESTED BY :  , **DATE :** Dec. 02, 2014

Glyn He/ Project Engineer

APPROVED BY :  , **DATE :** Dec. 02, 2014

Sam Tung / Technical Manager

2 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 27 & Part 2			
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 -11.15dB at 6930MHz.

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	9kHz~30MHz	2.66dB
Radiated emissions	9KHz ~ 30MHz	2.74dB
	30MHz ~ 1GMHz	3.55dB
	1GHz ~ 18GHz	4.84dB
	18GHz ~ 40GHz	1.94dB

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

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESU 26	100005	May 13,14	May 12,15
Bilog Antenna	Teseq	CBL 6111D	27089	Jun. 27, 14	Jun. 26, 15
Horn Antenna (1GHz -18GHz)	ETS -Lindgren	3117	00062558	May 30, 14	May 29, 16
Horn Antenna (15GHz-40GHz)	SCHWARZBECK	BBHA 9170	BBHA9170242	Feb. 13,14	Feb. 12,17
Amplifier (9kHz-1GHz)	SONOMA	310D	186955	Mar. 05,14	Mar. 04, 15
Pre-Amplifier (18GHz-40GHz)	EMCI	EMC 184045	980102	Nov. 03,14	Nov. 02,15
Pre-Amplifier (100MHz-26.5GHz)	Agilent	8449B	3008A00409	May 13,14	May 12,15
3m Semi-anechoic Chamber	ETS-LINDGREN	9m*6m*6m	NSEMC003	Apr. 19,14	Apr. 18,15
Test Software	ADT	ADT_Radiated V7.6.15.9.2	N/A	N/A	N/A
Loop antenna (9kHz~30MHz)	Daze	ZN30900A	0708	Dec. 05,13	Dec. 05,14
Spectrum Analyzer (9KHz-25GHz)	Agilent	E7405A	MY45118807	May 13,14	May 12,15
Power Meter	Anritsu	ML2495A	1139001	Feb. 21,14	Feb. 20,15
Power Sensor	Anritsu	MA2411B	1126068	Feb. 21,14	Feb. 20,15
Digital Multimeter	FLUKE	15B	A1220010DG	Oct. 29,14	Oct. 28,15
Humid & Temp Programmable Tester	Haida	HD-2257	110807201	Sep.04,14	Sep. 03,15
Oscilloscope	Agilent	DSO9254A	MY51260160	Oct. 17, 14	Oct. 16, 15
Signal Analyzer	Rohde & Schwarz	FSV7	102331	Nov. 24,14	Nov. 23,15
Signal Generator	Agilent	N5183A	MY50140980	Nov. 03,14	Nov. 02,15
ESG Vector Signal Generator	Agilent	E4438C	MY49072505	Mar.14, 14	Mar.13, 15
BLUETOOTH TESTER	Rohde&Schwarz	CBT32	100811	Sep. 04,14	Sep. 03,15

- NOTE:** 1. The calibration interval of the above test instruments is 12 months or 24 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
2. The test was performed in Dongguan 966 Chamber.
3. The horn antenna are used only for the measurement of emission frequency above 1GHz if tested.
4. The FCC Site Registration No. is 502831.

3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Mobile Hotspot Folio	
MODEL NO.	Y8600A	
POWER SUPPLY	5.0Vdc (adapter or host equipment) 3.8Vdc (battery)	
MODULATION TECHNOLOGY	LTE Band 4	QPSK, 16QAM
	LTE Band 17	QPSK, 16QAM
FREQUENCY RANGE	LTE Band 4 Channel Bandwidth: 1.4MHz	1710.7MHz ~ 1754.3MHz
	LTE Band 4 Channel Bandwidth: 3MHz	1711.5MHz ~ 1753.5MHz
	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
	LTE Band 17 Channel Bandwidth: 5MHz	706.5MHz ~ 713.5MHz
	LTE Band 17 Channel Bandwidth: 10MHz	709.0MHz ~ 711.0MHz
EMISSION DESIGNATOR	LTE Band 4 Channel Bandwidth: 1.4MHz	QPSK: 1M09G7D 16QAM: 1M09W7D
	LTE Band 4 Channel Bandwidth: 3MHz	QPSK: 2M68G7D 16QAM: 2M69W7D
	LTE Band 4 Channel Bandwidth: 5MHz	QPSK: 4M49G7D 16QAM: 4M47W7D
	LTE Band 4 Channel Bandwidth: 10MHz	QPSK: 8M94G7D 16QAM: 8M94W7D
EMISSION DESIGNATOR	LTE Band 4 Channel Bandwidth: 15MHz	QPSK: 13M5G7D 16QAM: 13M4W7D
	LTE Band 4 Channel Bandwidth: 20MHz	QPSK: 17M9G7D 16QAM: 17M8W7D
	LTE Band 17 Channel Bandwidth: 5MHz	QPSK: 4M50G7D 16QAM: 4M50W7D
	LTE Band 17 Channel Bandwidth: 10MHz	QPSK: 8M97G7D 16QAM: 8M97W7D
MAX. ERP/EIRP POWER	LTE Band 4 Channel Bandwidth: 1.4MHz	206mW

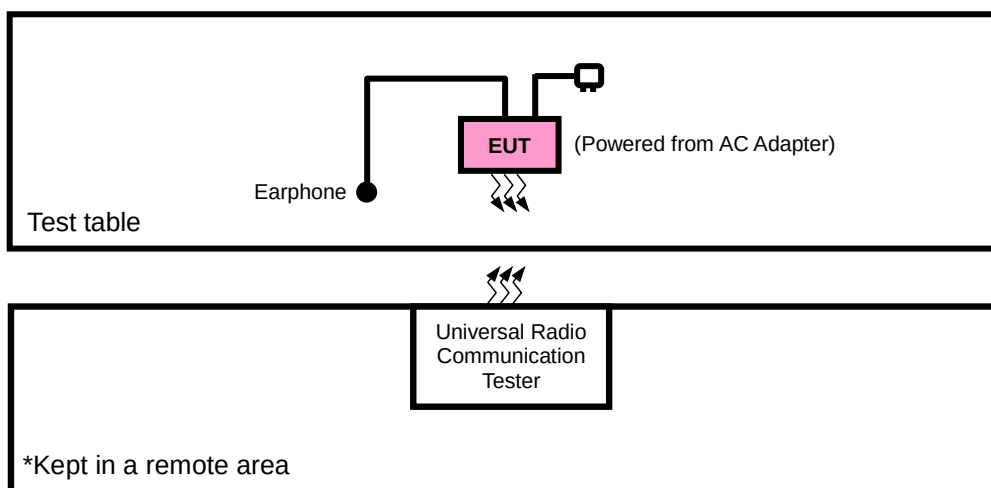
	LTE Band 4 Channel Bandwidth: 3MHz		180mW
	LTE Band 4 Channel Bandwidth: 5MHz		191mW
	LTE Band 4 Channel Bandwidth: 10MHz		184mW
	LTE Band 4 Channel Bandwidth: 15MHz		213mW
	LTE Band 4 Channel Bandwidth: 20MHz		198mW
	LTE Band 17 Channel Bandwidth: 5MHz		226mW
	LTE Band 17 Channel Bandwidth: 10MHz		243mW
ANTENNA TYPE	LTE Band 4	Fixed Internal antenna with 1dBi gain	
	LTE Band 17	Fixed Internal antenna with 0dBi gain	
HW VERSION	05		
SW VERSION	Y860OA_00_03.10_03_20141114		
I/O PORTS	Refer to user's manual		
DATA CABLE	USB Cable: Shielded, Detachable, 1.0 meter		

NOTE:

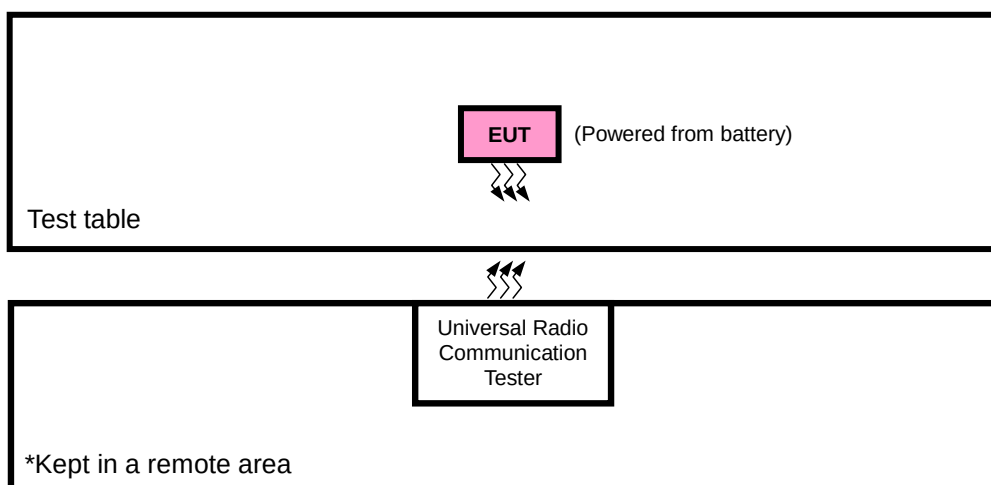
1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
2. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.

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. 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	DC source	LONG WEI	PS-6403D	010934269	N/A
2	PC	HP	A6608CN	3CR83825X3	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	DC Line: Unshielded, Detachable 1.0m
2	AC Line: Unshielded, Detachable 1.5m

NOTE:

1. All power cords of the above support units are non shielded (1.8m).

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 when positioned on Y-plane for ERP/EIRP and X-axis for radiated emission. Following channel(s) was (were) selected for the final test as listed below:

EUT CONFIGURE MODE	DESCRIPTION
A	EUT + Adapter with LTE link
B	EUT + Battery with LTE link

LTE BAND 4

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
B	EIRP	19957 to 20393	19957, 20175, 20393	1.4MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		19965 to 20385	19965, 20175, 20385	3MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		20000 to 20350	20000, 20175, 20350	10MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		20025 to 20325	20025, 20175, 20325	15MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		20050 to 20300	20050, 20175, 20300	20MHz	QPSK, 16QAM	1 RB / 0 RB Offset
B	FREQUENCY STABILITY	19957 to 20393	20175	1.4MHz	QPSK	1 RB / 0 RB Offset
		19965 to 20385	20175	3MHz	QPSK	1 RB / 0 RB Offset
		19975 to 20375	20175	5MHz	QPSK	1 RB / 0 RB Offset
		20000 to 20350	20175	10MHz	QPSK	1 RB / 0 RB Offset
		20025 to 20325	20175	15MHz	QPSK	1 RB / 0 RB Offset
		20050 to 20300	20175	20MHz	QPSK	1 RB / 0 RB Offset
B	OCCUPIED BANDWIDTH	19957 to 20393	19957, 20175, 20393	1.4MHz	QPSK, 16QAM	6 RB / 0 RB Offset
		19965 to 20385	19965, 20175, 20385	3MHz	QPSK, 16QAM	15 RB / 0 RB Offset
		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
B	PEAK TO AVERAGE RATIO	19957 to 20393	19957, 20175, 20393	1.4MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		19965 to 20385	19965, 20175, 20385	3MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		20000 to 20350	20000, 20175, 20350	10MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		20025 to 20325	20025, 20175, 20325	15MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		20050 to 20300	20050, 20175, 20300	20MHz	QPSK, 16QAM	1 RB / 0 RB Offset
B	BAND EDGE	19957 to 20393	19957	1.4MHz	QPSK	1 RB / 0 RB Offset
						6 RB / 0 RB Offset
			20393	1.4MHz	QPSK	1 RB / 5 RB Offset
						6 RB / 0 RB Offset
		19965 to 20385	19965	3MHz	QPSK	1 RB / 0 RB Offset
						15 RB / 0 RB Offset
			20385	3MHz	QPSK	1 RB / 14 RB Offset
						15 RB / 0 RB Offset
		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

B	BAND EDGE	20025 to 20325	20025	15MHz	QPSK	1 RB / 0 RB Offset
			20325	15MHz	QPSK	75 RB / 0 RB Offset
		20050 to 20300	20050	20MHz	QPSK	1 RB / 74 RB Offset
			20300	20MHz	QPSK	75 RB / 0 RB Offset
			20050	20MHz	QPSK	1 RB / 0 RB Offset
			20300	20MHz	QPSK	100 RB / 0 RB Offset
B	CONDCUDETED EMISSION	19957 to 20393	20175	1.4MHz	QPSK	1 RB / 0 RB Offset
		19965 to 20385	20175	3MHz	QPSK	1 RB / 0 RB Offset
		19975 to 20375	20175	5MHz	QPSK	1 RB / 0 RB Offset
		20000 to 20350	20175	10MHz	QPSK	1 RB / 0 RB Offset
		20025 to 20325	20175	15MHz	QPSK	1 RB / 0 RB Offset
		20050 to 20300	20175	20MHz	QPSK	1 RB / 0 RB Offset
A	RADIATED EMISSION	19957 to 20393	20175	1.4MHz	QPSK	1 RB / 0 RB Offset
		19965 to 20385	20175	3MHz	QPSK	1 RB / 0 RB Offset
		19975 to 20375	20175	5MHz	QPSK	1 RB / 0 RB Offset
		20000 to 20350	20175	10MHz	QPSK	1 RB / 0 RB Offset
		20025 to 20325	20175	15MHz	QPSK	1 RB / 0 RB Offset
		20050 to 20300	20175	20MHz	QPSK	1 RB / 0 RB Offset

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

LTE BAND 17

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

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

TEST CONDITION:

TEST ITEM	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
EIRP(ERP)	24deg. C, 60%RH	3.8Vdc from Battery	Blue Zheng
FREQUENCY STABILITY	24deg. C, 61%RH	3.8Vdc from Battery	Yuqiang Yin
OCCUPIED BANDWIDTH	24deg. C, 61%RH	3.8Vdc from Battery	Yuqiang Yin
PEAK TO AVERAGE RATIO	24deg. C, 61%RH	3.8Vdc from Battery	Yuqiang Yin
BAND EDGE	24deg. C, 61%RH	3.8Vdc from Battery	Yuqiang Yin
CONDCUDED EMISSION	24deg. C, 61%RH	3.8Vdc from Battery	Yuqiang Yin
RADIATED EMISSION	24deg. C, 60%RH	5Vdc from adapter	Blue Zheng



Test Report No.: RF141120N008-3

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/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 699-716 MHz band are limited to 3 watts ERP.

4.1.2 TEST PROCEDURES

EIRP / ERP MEASUREMENT:

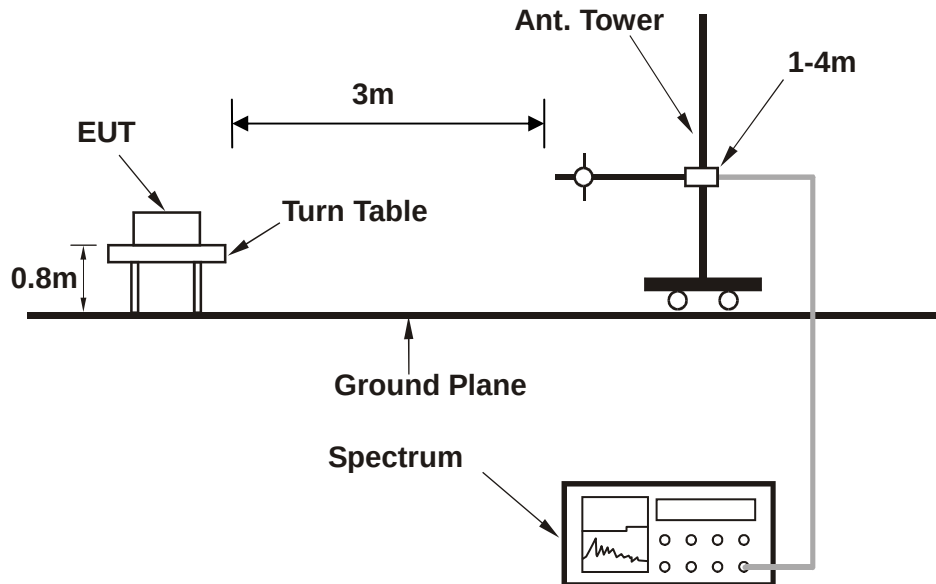
- a. The EUT was set up for the maximum power with LTE link data modulation. The power was measured with R&S Spectrum Analyzer. All measurements were done at 3 channels (low, middle and high operational frequency range). RBW and VBW is 10MHz for LTE.
- b. E.I.R.P power measurement. In the semi-anechoic 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 a. Record the power level of S.G
- d. $EIRP = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}$
- e. $E.R.P = E.I.R.P - 2.15 \text{ dB}$

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.

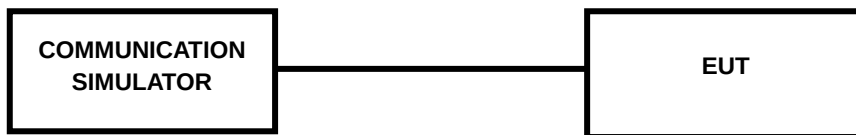
4.1.3 TEST SETUP

EIRP / ERP MEASUREMENT:



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

CONDUCTED POWER MEASUREMENT:



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

4.1.4 TEST RESULTS

AVERAGE CONDUCTED OUTPUT POWER (dBm)

LTE Band 4							
BW	Modulation	RB Size	RB Offset	Low CH 19957	Mid CH 20175	High CH 20393	MPR
				Frequency 1710.7 MHz	Frequency 1732.5 MHz	Frequency 1754.3 MHz	
1.4MHz	QPSK	1	0	22.29	22.16	22.18	0
		1	2	22.01	21.93	21.62	0
		1	5	22.05	21.71	21.61	0
		3	0	22.28	21.91	21.74	0
		3	1	22.05	21.9	21.63	0
		3	3	22.04	21.77	21.52	0
		6	0	21.32	21.17	21.14	1
	16QAM	1	0	21.12	21.12	21.19	1
		1	2	21.2	21.04	20.74	1
		1	5	21.02	20.79	20.79	1
		3	0	21.26	21.01	20.82	1
		3	1	21.1	20.94	20.64	1
		3	3	21.03	20.81	20.55	1
		6	0	20.1	19.94	19.68	2

LTE Band 4							
BW	Modulation	RB Size	RB Offset	Low CH 19965	Mid CH 20175	High CH 20385	MPR
				Frequency 1711.5 MHz	Frequency 1732.5 MHz	Frequency 1753.5 MHz	
3 MHz	QPSK	1	0	22.32	22.19	22.21	0
		1	7	22.04	21.96	21.65	0
		1	14	22.08	21.74	21.64	0
		8	0	21.34	21.24	21.17	1
		8	3	21.08	20.93	20.66	1
		8	7	21.07	20.8	20.55	1
		15	0	21.35	21.2	21.17	1
	16QAM	1	0	21.15	21.15	21.22	1
		1	7	21.23	21.07	20.77	1
		1	14	21.05	20.82	20.82	1
		8	0	20.29	20.04	19.85	2
		8	3	20.13	19.97	19.67	2
		8	7	20.06	19.84	19.58	2
		15	0	20.13	19.97	19.71	2
BW	Modulation	RB Size	RB Offset	Low CH 19975	Mid CH 20175	High CH 20375	MPR
				Frequency 1712.5 MHz	Frequency 1732.5 MHz	Frequency 1752.5 MHz	
5 MHz	QPSK	1	0	22.35	22.22	22.24	0
		1	12	22.07	21.99	21.68	0
		1	24	22.11	21.77	21.67	0
		12	0	21.37	21.27	21.2	1
		12	6	21.11	20.96	20.69	1
		12	13	21.1	20.83	20.58	1
		25	0	21.38	21.23	21.2	1
	16QAM	1	0	21.18	21.18	21.25	1
		1	12	21.26	21.1	20.8	1
		1	24	21.08	20.85	20.85	1
		12	0	20.32	20.07	19.88	2
		12	6	20.16	20	19.7	2
		12	13	20.09	19.87	19.61	2
		6	0	20.16	20	19.74	2

LTE Band 4							
BW	Modulation	RB Size	RB Offset	Low CH 20000	Mid CH 20175	High CH 20350	MPR
				Frequency 1715 MHz	Frequency 1732.5 MHz	Frequency 1750 MHz	
10 MHz	QPSK	1	0	22.39	22.26	22.28	0
		1	24	22.11	22.03	21.72	0
		1	49	22.15	21.81	21.71	0
		25	0	21.41	21.31	21.24	1
		25	12	21.15	21	20.73	1
		25	25	21.14	20.87	20.62	1
		50	0	21.42	21.27	21.24	1
	16QAM	1	0	21.22	21.22	21.29	1
		1	24	21.3	21.14	20.84	1
		1	49	21.12	20.89	20.89	1
		25	0	20.36	20.11	19.92	2
		25	12	20.2	20.04	19.74	2
		25	25	20.13	19.91	19.65	2
		50	0	20.2	20.04	19.78	2
BW	Modulation	RB Size	RB Offset	Low CH 20025	Mid CH 20175	High CH 20325	MPR
				Frequency 1717.5 MHz	Frequency 1732.5 MHz	Frequency 1747.5 MHz	
15 MHz	QPSK	1	0	22.43	22.3	22.32	0
		1	37	22.15	22.07	21.76	0
		1	74	22.19	21.85	21.75	0
		36	0	21.45	21.35	21.28	1
		36	19	21.19	21.04	20.77	1
		36	39	21.18	20.91	20.66	1
		75	0	21.46	21.31	21.28	1
	16QAM	1	0	21.26	21.26	21.33	1
		1	37	21.34	21.18	20.88	1
		1	74	21.16	20.93	20.93	1
		36	0	20.4	20.15	19.96	2
		36	19	20.24	20.08	19.78	2
		36	39	20.17	19.95	19.69	2
		75	0	20.24	20.08	19.82	2

LTE Band 4							
BW	Modulation	RB Size	RB Offset	Low CH 20050	Mid CH 20175	High CH 20300	MPR
				Frequency 1720 MHz	Frequency 1732.5 MHz	Frequency 1745 MHz	
20MHz	QPSK	1	0	22.46	22.33	22.35	0
		1	50	22.18	22.1	21.79	0
		1	99	22.22	21.88	21.78	0
		50	0	21.48	21.38	21.31	1
		50	25	21.22	21.07	20.8	1
		50	50	21.21	20.94	20.69	1
		100	0	21.49	21.34	21.31	1
	16QAM	1	0	21.29	21.29	21.36	1
		1	50	21.37	21.21	20.91	1
		1	99	21.19	20.96	20.96	1
		50	0	20.43	20.18	19.99	2
		50	25	20.27	20.11	19.81	2
		50	50	20.2	19.98	19.72	2
		100	0	20.27	20.11	19.85	2

LTE Band 17							
BW	Modulation	RB Size	RB Offset	Low CH 23755	Mid CH 23790	High CH 23825	MPR
				Frequency 706.5 MHz	Frequency 710 MHz	Frequency 713.5 MHz	
5 MHz	QPSK	1	0	22.79	22.81	22.82	0
		1	12	22.75	22.74	22.64	0
		1	24	22.55	22.66	22.74	0
		12	0	21.76	21.69	21.74	1
		12	6	21.79	21.71	21.72	1
		12	13	21.8	21.75	21.96	1
		25	0	21.73	21.76	21.79	1
	16QAM	1	0	21.66	21.78	21.81	1
		1	12	21.74	21.56	21.6	1
		1	24	21.62	21.67	21.8	1
		12	0	20.84	20.89	20.87	2
		12	6	20.6	20.77	20.82	2
		12	13	20.83	20.73	20.97	2
		25	0	20.75	20.77	20.88	2
BW	Modulation	RB Size	RB Offset	Low CH 23780	Mid CH 23790	High CH 23800	MPR
				Frequency 709 MHz	Frequency 710 MHz	Frequency 711 MHz	
10 MHz	QPSK	1	0	22.83	22.85	22.86	0
		1	24	22.79	22.78	22.68	0
		1	49	22.59	22.7	22.78	0
		25	0	21.8	21.73	21.78	1
		25	12	21.83	21.75	21.76	1
		25	25	21.84	21.79	22	1
		50	0	21.77	21.8	21.83	1
	16QAM	1	0	21.7	21.82	21.85	1
		1	24	21.78	21.6	21.64	1
		1	49	21.66	21.71	21.84	1
		25	0	20.88	20.93	20.91	2
		25	12	20.64	20.81	20.86	2
		25	25	20.87	20.77	21.01	2
		50	0	20.79	20.81	20.92	2

EIRP

LTE BAND 4

CHANNEL BANDWIDTH: 1.4MHz QPSK

Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	LIMIT (W)
19957	1710.7	-18.06	40.25	22.19	165.58	-18.06	1
20175	1732.5	-18.19	40.86	22.67	184.93	-18.19	1
20393	1754.3	-18.09	41.22	23.13	205.59	-18.09	1
19957	1710.7	-25.16	44.36	19.20	83.18	-25.16	1
20175	1732.5	-25.43	44.08	18.65	73.28	-25.43	1
20393	1754.3	-26.44	44.91	18.47	70.31	-26.44	1

NOTE: EIRP (dBm) = LVL (dBm) + Correction Factor (dB)

CHANNEL BANDWIDTH: 1.4MHz 16QAM

Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	LIMIT (W)
19957	1710.7	-18.46	40.25	21.79	151.01	H	1
20175	1732.5	-18.26	40.86	22.60	181.97	H	1
20393	1754.3	-18.34	41.22	22.88	194.09	H	1
19957	1710.7	-26.39	44.36	17.97	62.66	V	1
20175	1732.5	-26.75	44.08	17.33	54.08	V	1
20393	1754.3	-26.49	44.91	18.42	69.50	V	1

NOTE: EIRP (dBm) = LVL (dBm) + Correction Factor (dB)

LTE BAND 4

CHANNEL BANDWIDTH: 3MHz QPSK

Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	LIMIT (W)
19965	1711.5	-18.32	40.18	21.86	153.46	H	1
20175	1732.5	-18.53	40.86	22.33	171.00	H	1
20385	1753.5	-18.59	41.15	22.56	180.30	H	1
19965	1711.5	-25.11	44.29	19.18	82.79	V	1
20175	1732.5	-25.29	44.08	18.79	75.68	V	1
20385	1753.5	-26.19	44.83	18.64	73.11	V	1

NOTE: EIRP (dBm) = LVL (dBm) + Correction Factor (dB)

CHANNEL BANDWIDTH: 3MHz 16QAM

Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	LIMIT (W)
19965	1711.5	-18.95	40.18	21.23	132.74	H	1
20175	1732.5	-19.31	40.86	21.55	142.89	H	1
20385	1753.5	-19.45	41.15	21.70	147.91	H	1
19965	1711.5	-25.51	44.29	18.78	75.51	V	1
20175	1732.5	-25.62	44.08	18.46	70.15	V	1
20385	1753.5	-25.19	44.83	19.64	92.04	V	1

NOTE: EIRP (dBm) = LVL (dBm) + Correction Factor (dB)

LTE BAND 4

CHANNEL BANDWIDTH: 5MHz QPSK

Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	LIMIT (W)
19975	1712.5	-18.25	40.34	22.09	161.81	H	1
20175	1732.5	-18.32	40.86	22.54	179.47	H	1
20375	1752.5	-18.16	40.96	22.80	190.55	H	1
19975	1712.5	-25.16	44.19	19.03	79.98	V	1
20175	1732.5	-25.66	44.08	18.42	69.50	V	1
20375	1752.5	-26.51	44.82	18.31	67.76	V	1

NOTE: EIRP (dBm) = LVL (dBm) + Correction Factor (dB)

CHANNEL BANDWIDTH: 5MHz 16QAM

Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	LIMIT (W)
19975	1712.5	-19.06	40.34	21.28	134.28	H	1
20175	1732.5	-19.26	40.86	21.60	144.54	H	1
20375	1752.5	-19.53	40.96	21.43	139.00	H	1
19975	1712.5	-26.85	44.19	17.34	54.20	V	1
20175	1732.5	-26.19	44.08	17.89	61.52	V	1
20375	1752.5	-27.03	44.82	17.79	60.12	V	1

NOTE: EIRP (dBm) = LVL (dBm) + Correction Factor (dB)

LTE BAND 4

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	LIMIT (W)
20000	1715.0	-18.58	41.10	22.52	178.65	H	1
20175	1732.5	-18.45	40.86	22.41	174.18	H	1
20350	1750.0	-18.49	41.14	22.65	184.08	H	1
20000	1715.0	-25.64	44.16	18.52	71.12	V	1
20175	1732.5	-25.41	44.08	18.67	73.62	V	1
20350	1750.0	-25.39	44.73	19.34	85.90	V	1

NOTE: EIRP (dBm) = LVL (dBm) + Correction Factor (dB)

CHANNEL BANDWIDTH: 10MHz 16QAM

Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	LIMIT (W)
20000	1715.0	-19.52	41.10	21.58	143.88	H	1
20175	1732.5	-19.74	40.86	21.12	129.42	H	1
20350	1750.0	-19.55	41.14	21.59	144.21	H	1
20000	1715.0	-25.23	44.16	18.93	78.16	V	1
20175	1732.5	-25.16	44.08	18.92	77.98	V	1
20350	1750.0	-25.39	44.73	19.34	85.90	V	1

NOTE: EIRP (dBm) = LVL (dBm) + Correction Factor (dB)

LTE BAND 4

CHANNEL BANDWIDTH: 15MHz QPSK

Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	LIMIT (W)
20025	1717.5	-18.96	41.35	22.39	173.38	H	1
20175	1732.5	-18.76	41.16	22.40	173.78	H	1
20325	1747.5	-18.49	41.78	23.29	213.30	H	1
20025	1717.5	-25.41	44.08	18.67	73.62	V	1
20175	1732.5	-25.26	44.08	18.82	76.21	V	1
20325	1747.5	-25.13	44.87	19.74	94.19	V	1

NOTE: EIRP (dBm) = LVL (dBm) + Correction Factor (dB)

CHANNEL BANDWIDTH: 15MHz 16QAM

Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	LIMIT (W)
20025	1717.5	-19.44	41.35	21.91	155.24	H	1
20175	1732.5	-19.86	41.16	21.30	134.90	H	1
20325	1747.5	-19.74	41.78	22.04	159.96	H	1
20025	1717.5	-26.34	44.08	17.74	59.43	V	1
20175	1732.5	-26.54	44.08	17.54	56.75	V	1
20325	1747.5	-26.45	44.87	18.42	69.50	V	1

NOTE: EIRP (dBm) = LVL (dBm) + Correction Factor (dB)

LTE BAND 4

CHANNEL BANDWIDTH: 20MHz QPSK

Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	LIMIT (W)
20050	1720.0	-18.65	41.04	22.39	173.38	H	1
20175	1732.5	-18.52	40.86	22.34	171.40	H	1
20300	1745.0	-18.63	41.59	22.96	197.70	H	1
20050	1720.0	-25.64	43.26	17.62	57.81	V	1
20175	1732.5	-25.74	44.08	18.34	68.23	V	1
20300	1745.0	-26.03	44.33	18.30	67.61	V	1

NOTE: EIRP (dBm) = LVL (dBm) + Correction Factor (dB)

CHANNEL BANDWIDTH: 20MHz 16QAM

Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)	LIMIT (W)
20050	1720.0	-19.26	41.04	21.78	150.66	H	1
20175	1732.5	-19.85	40.86	21.01	126.18	H	1
20300	1745.0	-19.63	41.59	21.96	157.04	H	1
20050	1720.0	-26.35	43.26	16.91	49.09	V	1
20175	1732.5	-26.32	44.08	17.76	59.70	V	1
20300	1745.0	-26.75	44.33	17.58	57.28	V	1

NOTE: EIRP (dBm) = LVL (dBm) + Correction Factor (dB)

LTE BAND 17

CHANNEL BANDWIDTH: 5MHz QPSK

Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)	LIMIT (W)
23755	706.5	-6.39	32.04	23.50	223.87	H	3
23790	710.0	-6.55	32.24	23.54	225.94	H	3
23825	713.5	-6.96	32.34	23.23	210.38	H	3
23755	706.5	-14.25	36.34	19.94	98.63	V	3
23790	710.0	-15.60	36.43	18.68	73.79	V	3
23825	713.5	-15.49	36.48	18.84	76.56	V	3

NOTE: ERP (dBm) = LVL (dBm) + Correction Factor (dB)-2.15dB.

CHANNEL BANDWIDTH: 5MHz 16QAM

Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)	LIMIT (W)
23755	706.5	-7.46	32.04	22.43	174.98	H	3
23790	710.0	-7.19	32.24	22.90	194.98	H	3
23825	713.5	-7.96	32.34	22.23	167.11	H	3
23755	706.5	-15.85	36.34	18.34	68.23	V	3
23790	710.0	-16.02	36.43	18.26	66.99	V	3
23825	713.5	-15.99	36.48	18.34	68.23	V	3

NOTE: ERP (dBm) = LVL (dBm) + Correction Factor (dB)-2.15dB.

LTE BAND 17

CHANNEL BANDWIDTH: 10MHz QPSK

Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)	LIMIT (W)
23780	709.0	-6.58	32.15	23.42	219.79	H	3
23790	710.0	-6.23	32.24	23.86	243.22	H	3
23800	711.0	-6.48	32.33	23.70	234.42	H	3
23780	709.0	-14.98	36.38	19.25	84.14	V	3
23790	710.0	-14.94	36.43	19.34	85.90	V	3
23800	711.0	-15.12	36.51	19.24	83.95	V	3

NOTE: ERP (dBm) = LVL (dBm) + Correction Factor (dB)-2.15dB.

CHANNEL BANDWIDTH: 10MHz 16QAM

Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)	LIMIT (W)
23780	709.0	-7.59	32.15	22.41	174.18	H	3
23790	710.0	-7.52	32.24	22.57	180.72	H	3
23800	711.0	-7.65	32.33	22.53	179.06	H	3
23780	709.0	-15.45	36.38	18.78	75.51	V	3
23790	710.0	-15.07	36.43	19.21	83.37	V	3
23800	711.0	-15.66	36.51	18.70	74.13	V	3

NOTE: ERP (dBm) = LVL (dBm) + Correction Factor (dB)-2.15dB.

4.2 FREQUENCY STABILITY MEASUREMENT

4.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

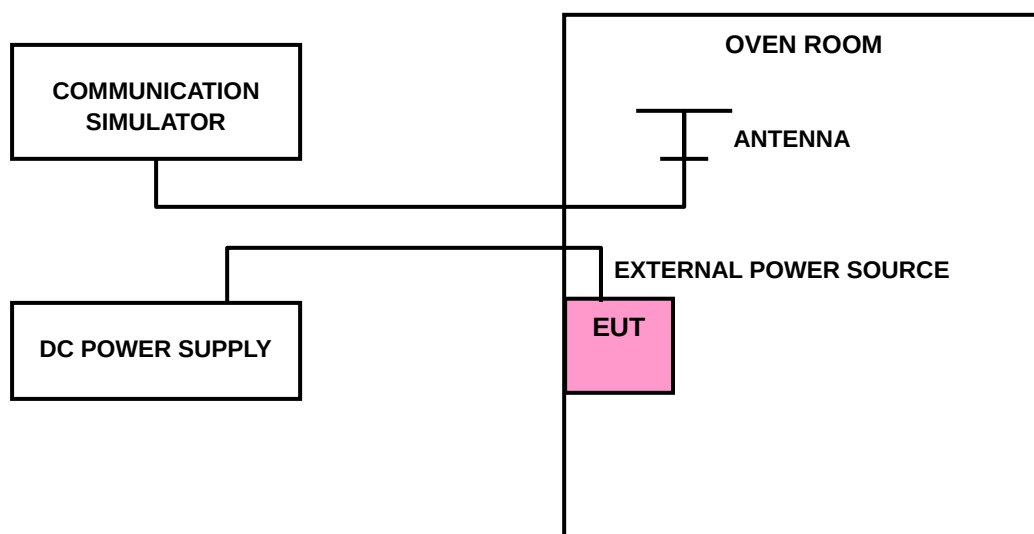
The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

4.2.2 TEST PROCEDURE

- 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

LTE BAND 4

AFC FREQUENCY ERROR vs. VOLTAGE							
VOLTAGE (Volts)	FREQUENCY ERROR (ppm)						LIMIT (ppm)
	1.4MHz	3MHz	5MHz	10MHz	15MHz	20MHz	
3.8	-0.007	-0.006	-0.007	-0.009	-0.003	-0.003	2.5
3.5	-0.004	-0.004	-0.003	-0.002	0.001	-0.002	2.5
4.35	0.002	0.002	0.005	0.002	0.005	-0.002	2.5

NOTE: The applicant defined the normal working voltage of the battery is from 3.5Vdc to 4.35Vdc.

AFC FREQUENCY ERROR vs. TEMPERATURE							
TEMP. (°C)	FREQUENCY ERROR (ppm)						LIMIT (ppm)
	1.4MHz	3MHz	5MHz	10MHz	15MHz	20MHz	
-30	-0.007	-0.008	-0.007	-0.010	-0.003	0.002	2.5
-20	-0.007	-0.006	-0.006	-0.007	-0.002	0.002	2.5
-10	-0.007	-0.006	-0.006	-0.006	-0.002	0.001	2.5
0	-0.006	-0.004	-0.006	-0.001	0.000	0.000	2.5
10	-0.004	-0.003	-0.004	-0.003	0.002	0.002	2.5
20	-0.002	-0.002	-0.003	-0.002	0.002	0.003	2.5
30	0.001	0.001	-0.002	0.001	0.002	0.004	2.5
40	0.002	0.002	-0.002	0.002	0.004	0.004	2.5
50	0.003	0.002	0.002	0.003	0.004	0.005	2.5
60	0.006	0.004	0.003	-0.003	0.005	0.006	2.5

LTE BAND 17

VOLTAGE (Volts)	FREQUENCY ERROR (ppm)		LIMIT (ppm)
	5MHz	10MHz	
3.8	-0.015	-0.002	2.5
3.5	-0.003	0.008	2.5
4.35	-0.001	0.012	2.5

NOTE: The applicant defined the normal working voltage of the battery is from 3.5Vdc to 4.35Vdc.

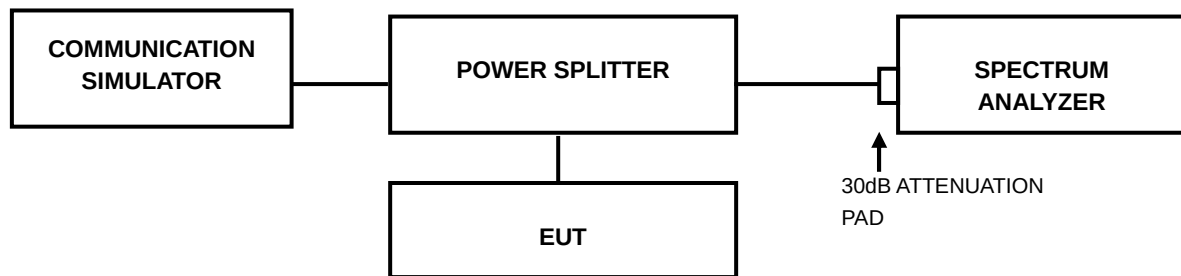
VOLTAGE (Volts)	FREQUENCY ERROR (ppm)		LIMIT (ppm)
	5MHz	10MHz	
-30	-0.021	-0.019	2.5
-20	-0.021	-0.015	2.5
-10	-0.018	-0.014	2.5
0	-0.015	-0.009	2.5
10	-0.005	0.006	2.5
20	0.004	-0.004	2.5
30	0.002	-0.002	2.5
40	0.005	0.006	2.5
50	0.009	0.009	2.5
60	0.014	0.013	2.5

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



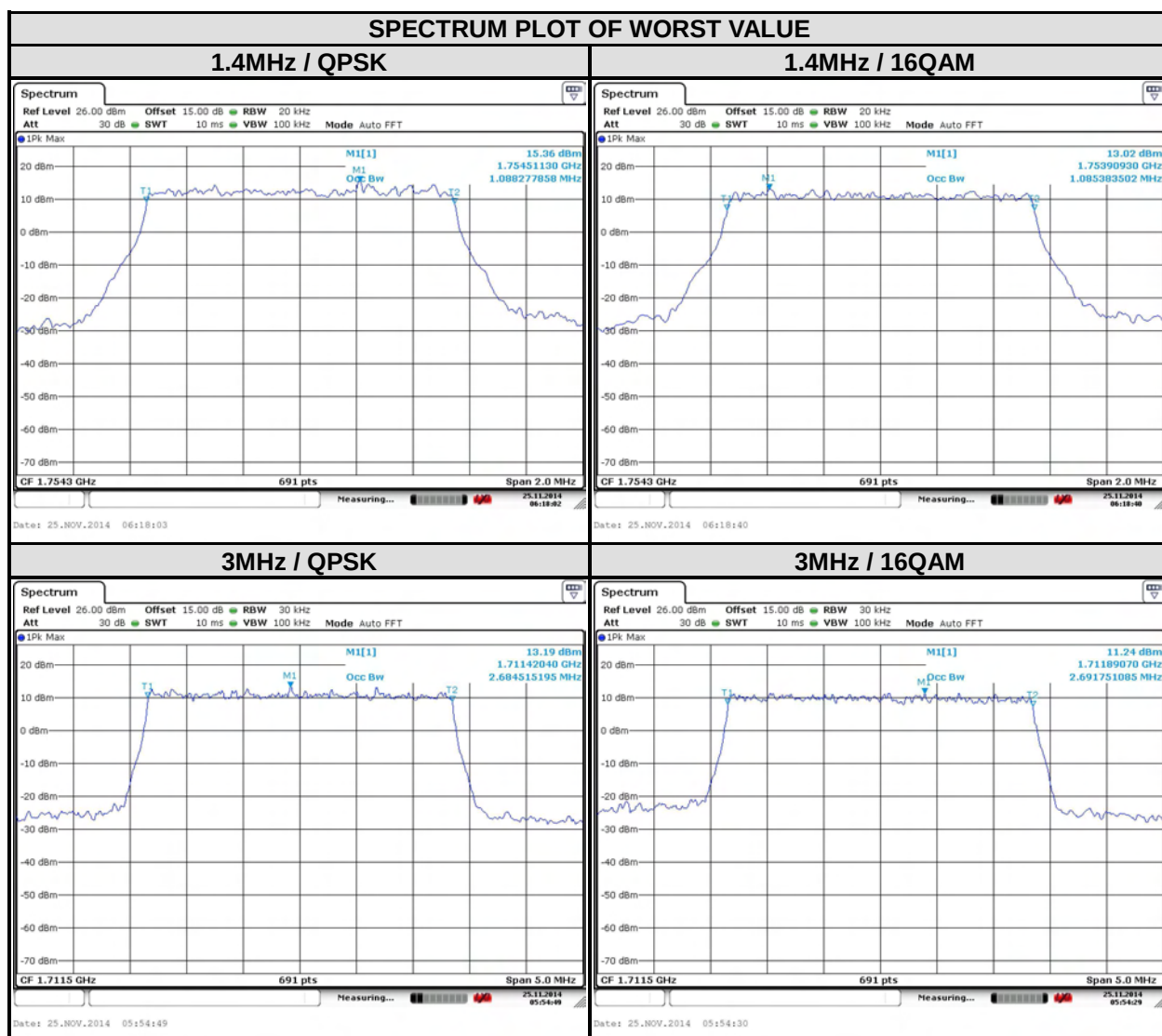
4.3.3 TEST PROCEDURES

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

4.3.4 TEST RESULTS

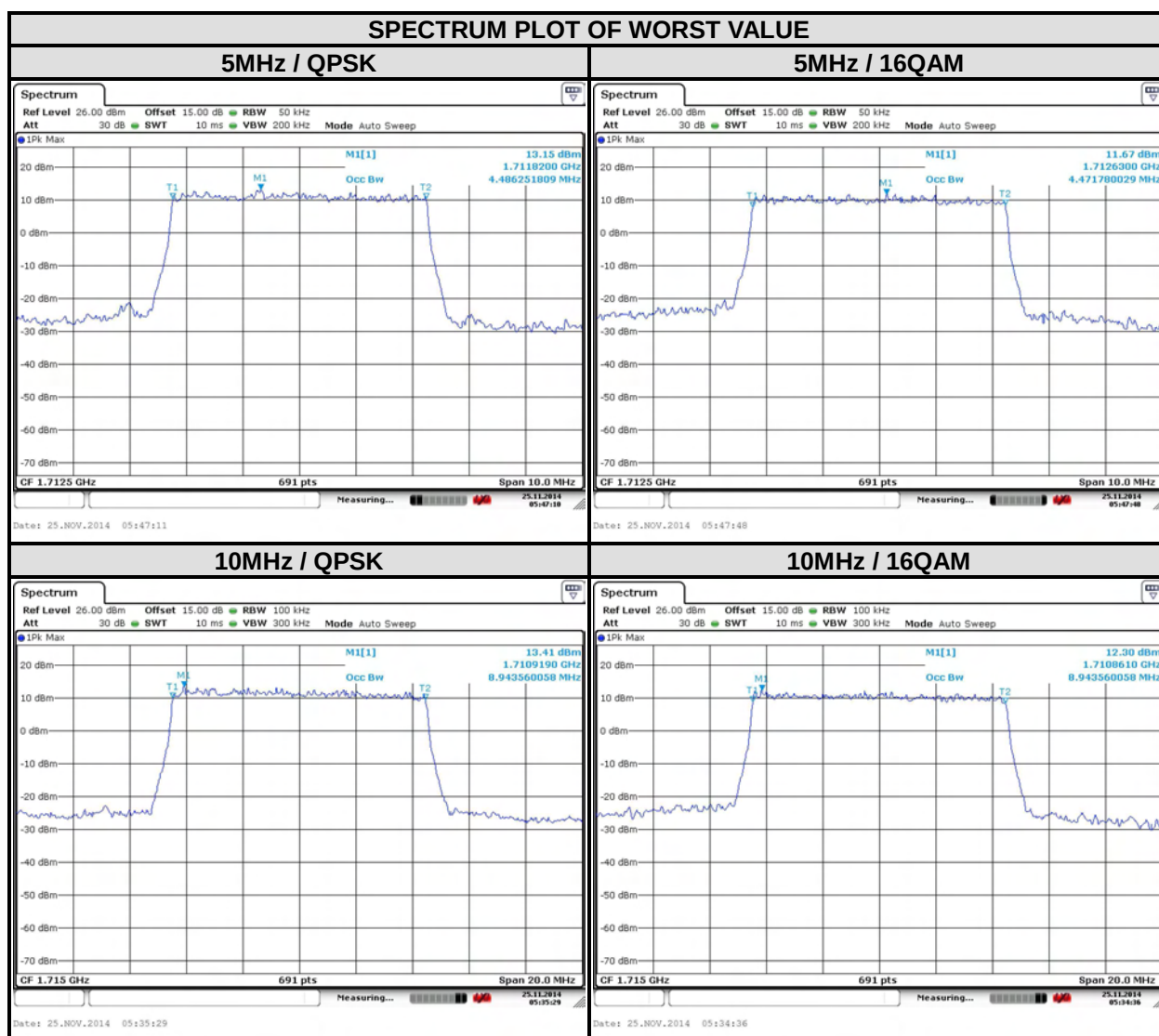
LTE BAND 4

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
19957	1710.7	1.09	1.08	19965	1711.5	2.68	2.69
20175	1732.5	1.09	1.09	20175	1732.5	2.68	2.68
20393	1754.3	1.09	1.09	20385	1753.5	2.68	2.68



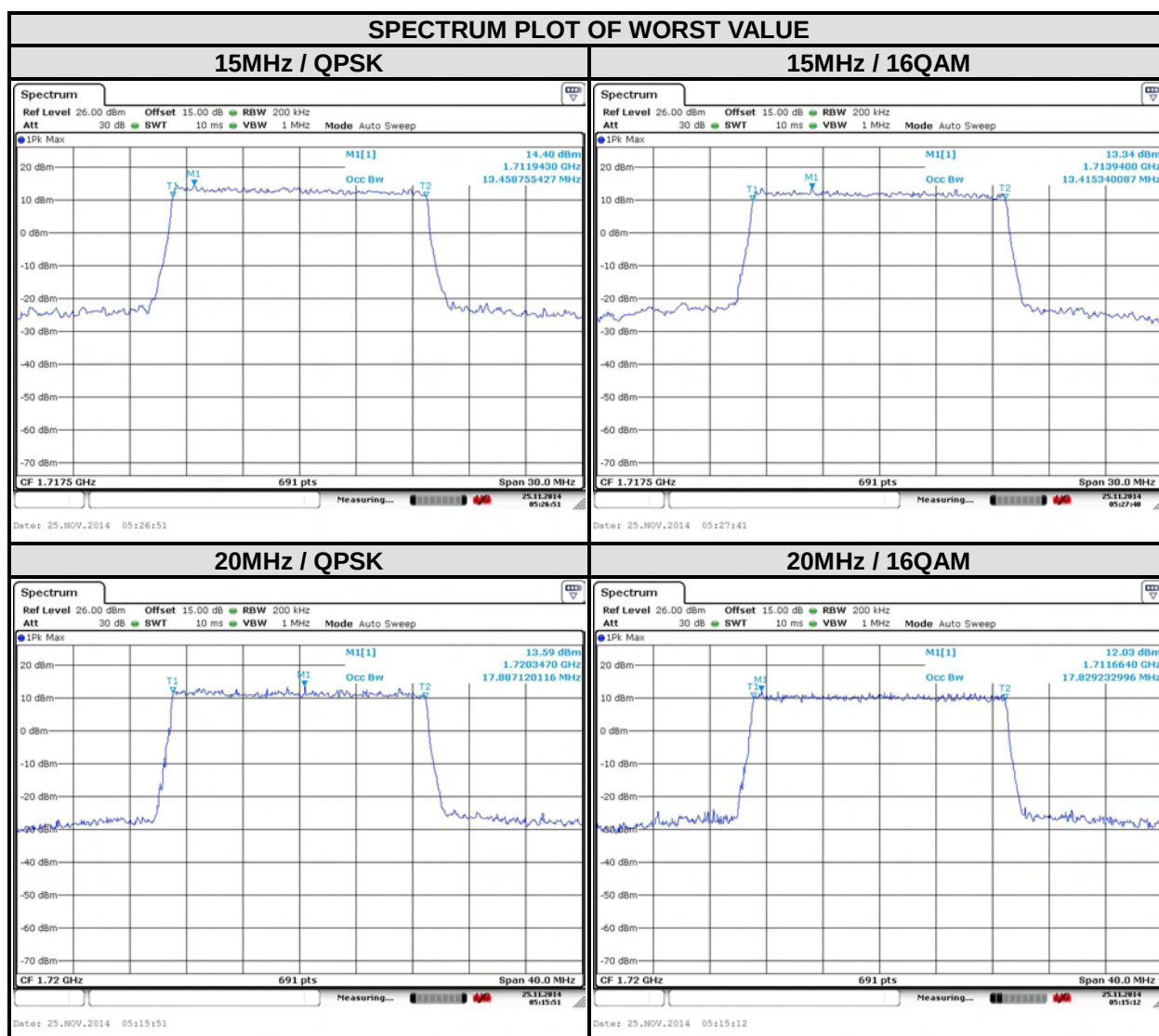
LTE BAND 4

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	4.49	4.47	20000	1715	8.94	8.94
20175	1732.5	4.47	4.46	20175	1732.5	8.94	8.94
20375	1752.5	4.49	4.47	20350	1750	8.94	8.94



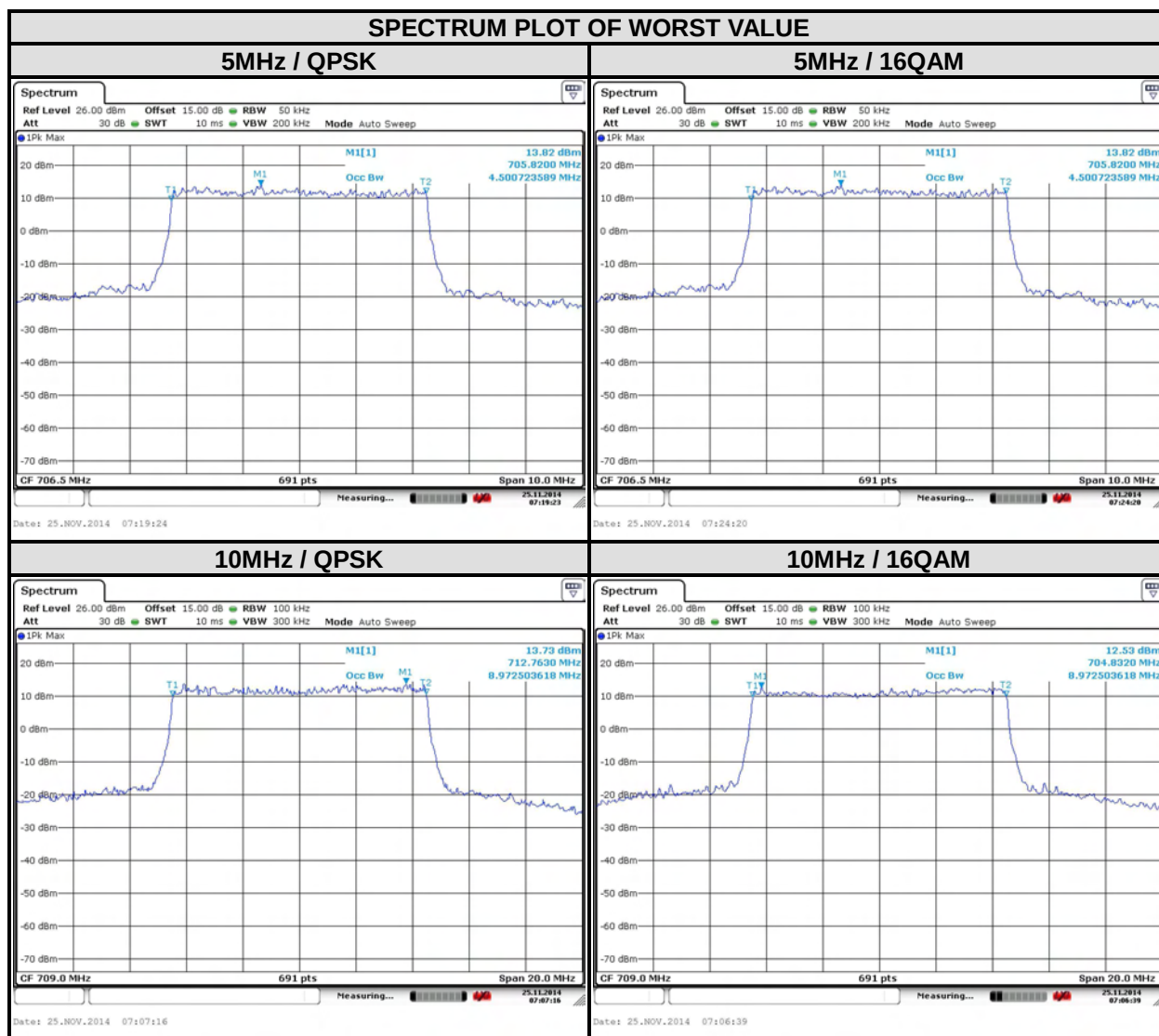
LTE BAND 4

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	13.46	13.42	20050	1720	17.89	17.83
20175	1732.5	13.42	13.42	20175	1732.5	17.89	17.77
20325	1747.5	13.42	13.42	20300	1745	17.83	17.77



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	4.50	4.50	23780	709	8.97	8.97
23790	710	4.47	4.49	23790	710	8.97	8.97
23825	713.5	4.49	4.47	23800	711	8.94	8.97

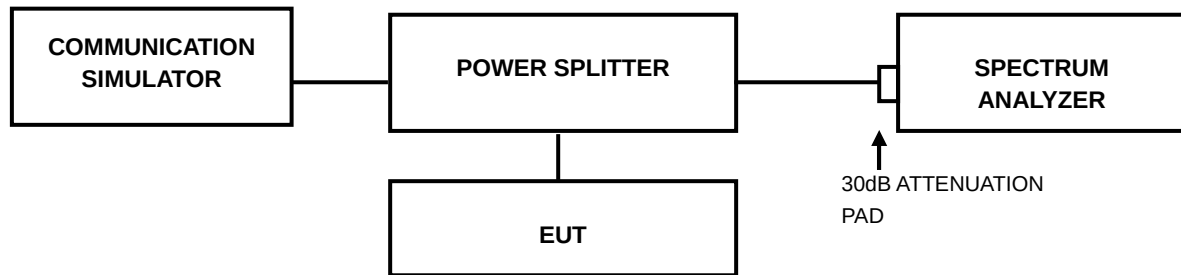


4.4 PEAK TO AVERAGE RATIO

4.4.1 LIMITS OF PEAK TO AVERAGE RATIO MEASUREMENT

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

4.4.2 TEST SETUP



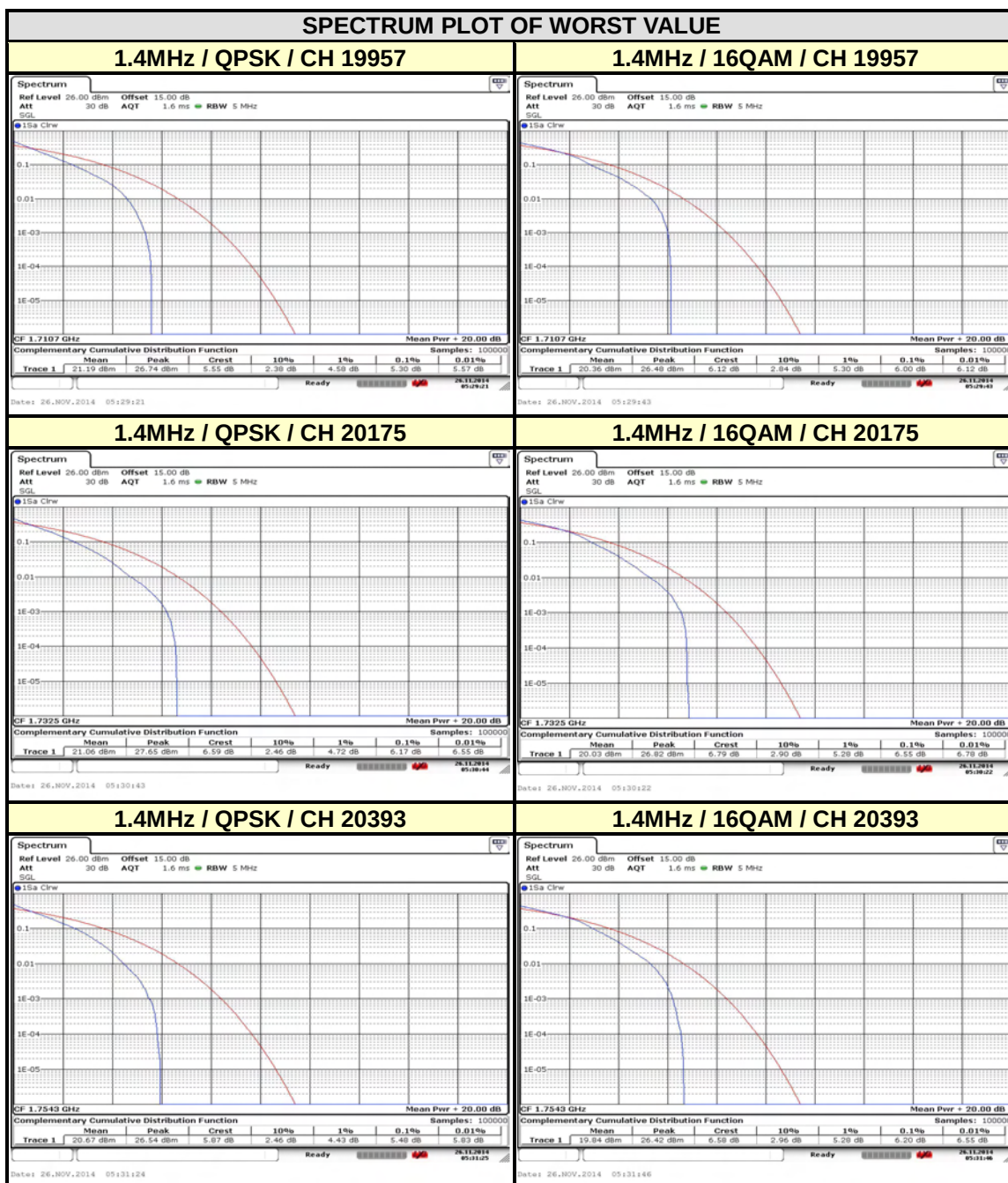
4.4.3 TEST PROCEDURES

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

4.4.4 TEST RESULTS

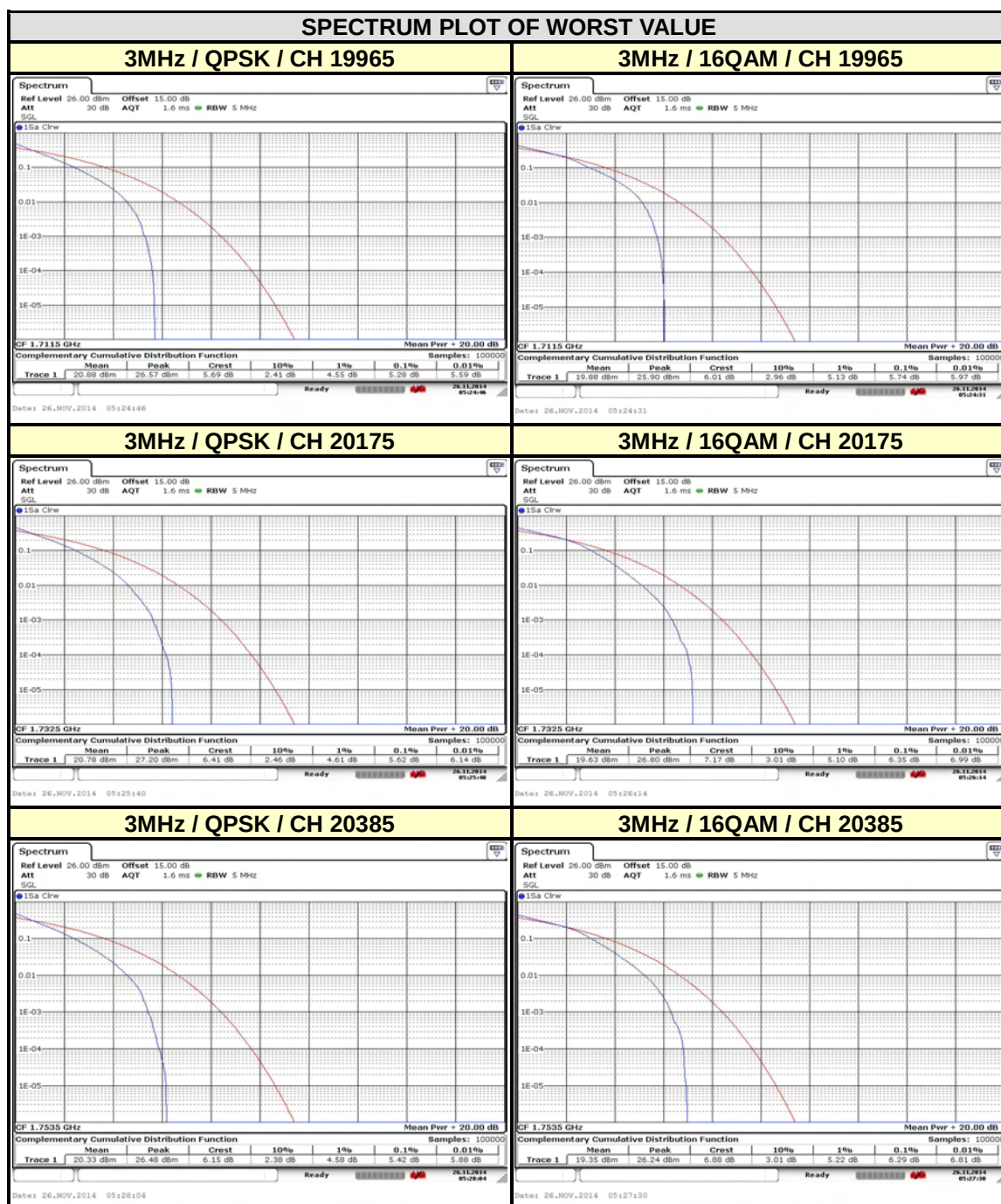
LTE BAND 4

CHANNEL BANDWIDTH: 1.4MHz			
CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)	
		QPSK	16QAM
19957	1710.7	5.30	6.00
20175	1732.5	6.17	6.55
20393	1754.3	5.48	6.20



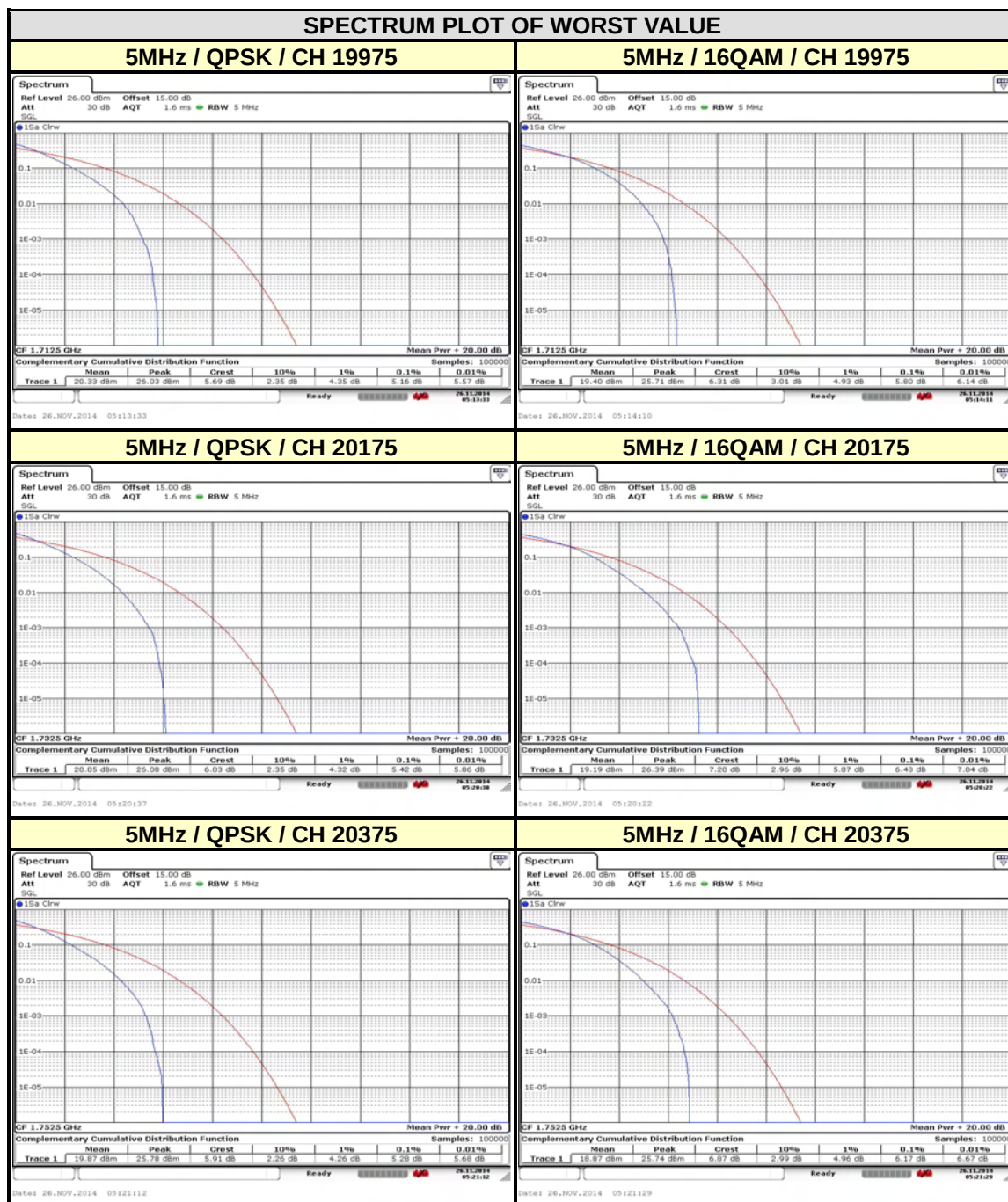
LTE BAND 4

CHANNEL BANDWIDTH: 3MHZ			
CHANNEL	FREQUENCY (MHZ)	PEAK TO AVERAGE RATIO (DB)	
		QPSK	16QAM
19965	1711.5	5.28	5.74
20175	1732.5	5.62	6.35
20385	1753.5	5.42	6.29



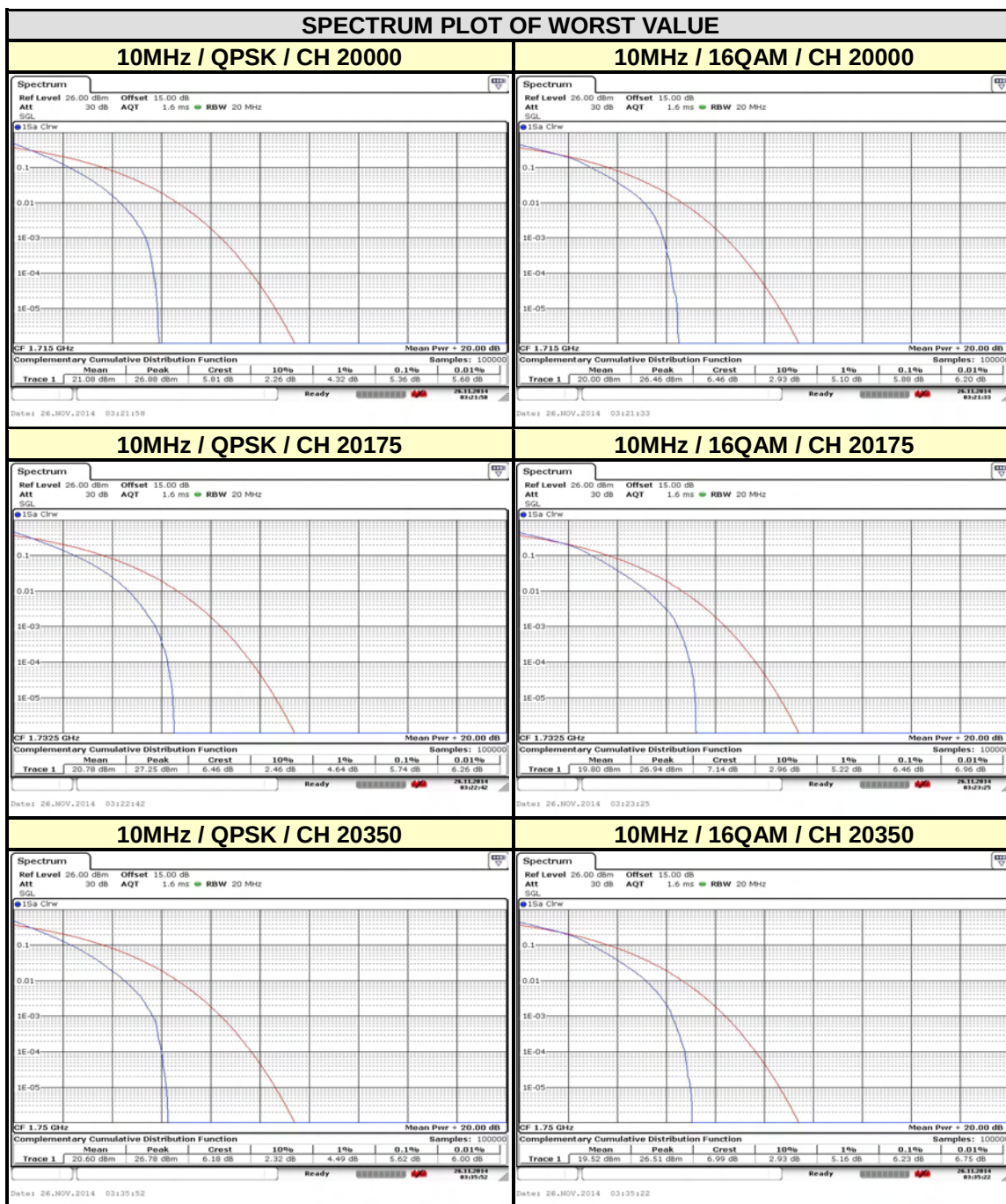
LTE BAND 4

CHANNEL BANDWIDTH: 5MHZ			
CHANNEL	FREQUENCY (MHZ)	PEAK TO AVERAGE RATIO (DB)	
		QPSK	16QAM
19975	1712.5	5.16	5.80
20175	1732.5	5.42	6.43
20375	1752.5	5.28	6.17



LTE BAND 4

CHANNEL BANDWIDTH: 10MHz			
CHANNEL	FREQUENCY (MHZ)	PEAK TO AVERAGE RATIO (DB)	
		QPSK	16QAM
20000	1715	5.36	5.88
20175	1732.5	5.74	6.46
20350	1750	5.62	6.23



LTE BAND 4

CHANNEL BANDWIDTH: 15MHZ			
CHANNEL	FREQUENCY (MHZ)	PEAK TO AVERAGE RATIO (DB)	
		QPSK	16QAM
20025	1717.5	5.22	5.97
20175	1732.5	5.59	6.29
20325	1747.5	5.42	6.14

