

FCC TEST REPORT

(PART 27)

REPORT NO.: RF131213C05-6

MODEL NO.: T00D

FCC ID: MSQT00D

RECEIVED: Dec. 13, 2013

TESTED: Jan. 08, 2014 ~ Feb. 21, 2014

ISSUED: Feb. 27, 2014

APPLICANT: ASUSTek COMPUTER INC.

ADDRESS: 4F., No. 150, LI-TE Rd., PEITOU, TAIPEI 112, TAIWAN

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

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

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

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



This report is for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence, provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents. Unless specific mention, the uncertainty of measurement has been explicitly taken into account to declare the compliance or non-compliance to the specification

TABLE OF CONTENTS

RELEASE CONTROL RECORD.....	3
1 CERTIFICATION	4
2 SUMMARY OF TEST RESULTS.....	5
2.1 MEASUREMENT UNCERTAINTY	5
2.2 TEST SITE AND INSTRUMENTS	6
3 GENERAL INFORMATION	7
3.1 GENERAL DESCRIPTION OF EUT	7
3.2 CONFIGURATION OF SYSTEM UNDER TEST	9
3.3 DESCRIPTION OF SUPPORT UNITS	10
3.4 DESCRIPTION OF TEST MODES	11
3.5 GENERAL DESCRIPTION OF APPLIED STANDARDS	12
4 TEST TYPES AND RESULTS.....	13
4.1 OUTPUT POWER MEASUREMENT	13
4.1.1 LIMITS OF OUTPUT POWER MEASUREMENT	13
4.1.2 TEST PROCEDURES	13
4.1.3 TEST SETUP	14
4.1.4 TEST RESULTS	15
4.2 FREQUENCY STABILITY MEASUREMENT	20
4.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT	20
4.2.2 TEST PROCEDURE	20
4.2.3 TEST SETUP	20
4.2.4 TEST RESULTS	21
4.3 OCCUPIED BANDWIDTH MEASUREMENT	22
4.3.1 LIMITS OF OCCUPIED BANDWIDTH MEASUREMENT	22
4.3.2 TEST SETUP	22
4.3.3 TEST PROCEDURES	22
4.3.4 TEST RESULTS	23
4.4 PEAK TO AVERAGE RATIO.....	24
4.4.1 LIMITS OF PEAK TO AVERAGE RATIO MEASUREMENT	24
4.4.2 TEST SETUP	24
4.4.3 TEST PROCEDURES	24
4.4.4 TEST RESULTS	25
4.5 BAND EDGE MEASUREMENT	26
4.5.1 LIMITS OF BAND EDGE MEASUREMENT	26
4.5.2 TEST SETUP	26
4.5.3 TEST PROCEDURES	27
4.5.4 TEST RESULTS	28
4.6 CONDUCTED SPURIOUS EMISSIONS	36
4.6.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT	36
4.6.2 TEST PROCEDURE	36
4.6.3 TEST SETUP	36
4.6.4 TEST RESULTS	37
4.7 RADIATED EMISSION MEASUREMENT	38
4.7.1 LIMITS OF RADIATED EMISSION MEASUREMENT	38
4.7.2 TEST PROCEDURES	38
4.7.3 DEVIATION FROM TEST STANDARD	38
4.7.4 TEST SETUP	39
4.7.5 TEST RESULTS	40
5 INFORMATION ON THE TESTING LABORATORIES	52
6 APPENDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB.....	53



RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF131213C05-6	Original release	Feb. 27, 2014

1 CERTIFICATION

PRODUCT: PadFone X
MODEL NO.: T00D
BRAND: ASUS
APPLICANT: ASUSTek COMPUTER INC.
TESTED: Jan. 08, 2014 ~ Feb. 21, 2014
TEST SAMPLE: Identical Prototype
TEST STANDARDS: FCC Part 27, Subpart C, M
FCC Part 2
ANSI C63.4-2003

The above equipment (model: T00D) 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 : Vera Huang , **DATE:** Feb. 27, 2014

Vera Huang / Specialist

APPROVED BY : Sam chen , **DATE:** Feb. 27, 2014

Sam Chen / Senior Project Engineer

2 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

STANDARD SECTION	TEST TYPE AND LIMIT	RESULT	REMARK
2.1046 27.50(h)	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(m)	Occupied Bandwidth	PASS	Meet the requirement of limit.
27.50(h)	Peak to average ratio	PASS	Meet the requirement of limit.
2.1051 27.53(m)	Band Edge Measurements	PASS	Meet the requirement of limit.
2.1051 27.53(m)	Conducted Spurious Emissions	PASS	Meet the requirement of limit.
2.1053 27.53(m)	Radiated Spurious Emissions	PASS	Meet the requirement of limit. Minimum passing margin is -1.68dB at 5070.00MHz.

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-563	Nov. 01, 2013	Oct. 31, 2014
HORN Antenna SCHWARZBECK	BBHA 9170	9170-480	Dec. 18, 2013	Dec. 17, 2014
Loop Antenna	3127-836	00099258	Aug. 09, 2013	Aug. 08, 2014
Preamplifier EMCI	8447D	2944A10631	Aug. 30, 2013	Aug. 29, 2014
Preamplifier EMCI	8449B	3008A1960	Aug. 30, 2013	Aug. 29, 2014
Preamplifier EMCI	EMC 330H	980112	Dec. 27, 2013	Dec. 26, 2014
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	309219/4	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	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	PadFone X	
MODEL NO.	T00D	
POWER SUPPLY	5Vdc (adapter or host equipment) 3.8Vdc (battery)	
MODULATION TECHNOLOGY	LTE Band 7	QPSK, 16QAM
FREQUENCY RANGE	LTE Band 7 Channel Bandwidth: 5MHz	2502.5MHz ~ 2567.5MHz
	LTE Band 7 Channel Bandwidth: 10MHz	2505MHz ~ 2565MHz
EMISSION DESIGNATOR	LTE Band 7 Channel Bandwidth: 5MHz	4M50G7D
	LTE Band 7 Channel Bandwidth: 10MHz	8M92W7D
MAX. EIRP POWER	LTE Band 7 Channel Bandwidth: 5MHz	148.25mW
	LTE Band 7 Channel Bandwidth: 10MHz	163.27mW
ANTENNA TYPE	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:

1. The EUT has following accessories.

ITEM	BRAND	MODEL	DESCRIPTION
AC Adapter 1	ASUS	AD897320	I/P: 100-240Vac, 50-60Hz, 0.3A O/P: 5Vdc, 2A
AC Adapter 2	ASUS	W12-010N3A	I/P: 100-240Vac, 50-60Hz, 0.3A O/P: 5Vdc, 2A
Li-ion Battery	ASUS	C11P1322	Rating: 3.8Vdc, 8.7Wh
Earphone 1	ASUS	OBOPRO2	1.27m cable
Earphone 2	ASUS	WW	1.25m cable
Earphone 3	ASUS	CHM-125STS02001	1.15m cable
USB cable 1	ASUS	AA780300	0.85m cable
USB cable 2	ASUS	L65U2008-CS-B	0.95m cable
USB cable 3	ASUS	CUHD003B-Y05-EF	0.95m cable
LCD Panel	SHARP	LS050T1SX04	--
Front Camera 1	AZWAVE	AM-2F024	--
Front Camera 2	Chicony	CCFD21220003871LH	--
Rear Camera	LARVIEW	CBAA0-010A	--
WLAN / BT Module	QUALCOMM	WIRELESS IC 79BWLNSP	--

2. The device has configurations as below.

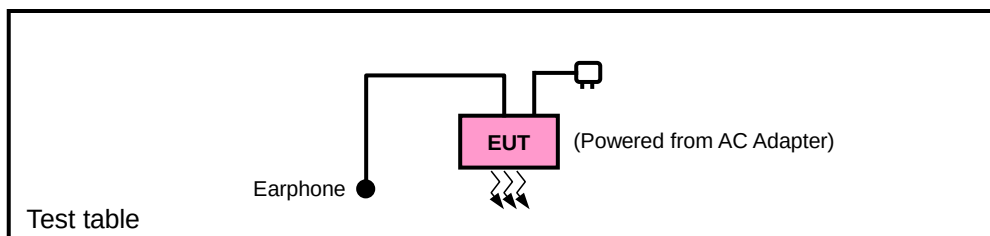
EUT CONFIGURE MODE	Description
A	EUT with Front Camera 1
B	EUT + PadFone Station with Front Camera 1
C	EUT with Front Camera 2
D	EUT + PadFone Station with Front Camera 2

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

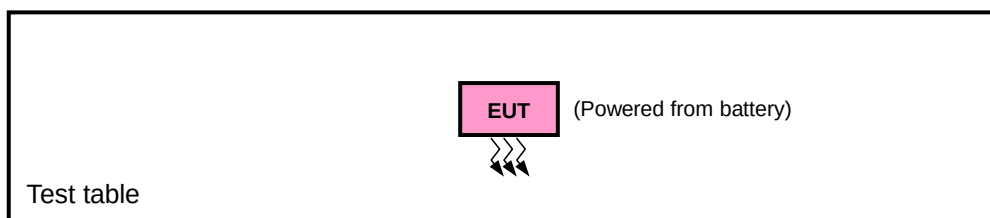
3.2 CONFIGURATION OF SYSTEM UNDER TEST

MODE A & C

FOR RADIATION EMISSION TEST

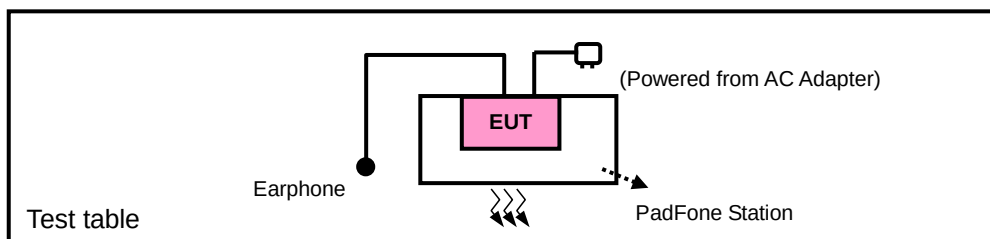


FOR E.I.R.P. TEST

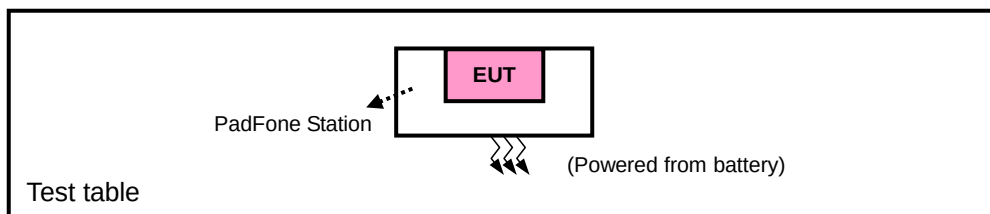


MODE B & D

FOR RADIATION EMISSION TEST



FOR 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	PadFone X Station	ASUS	T00DP	N/A	N/A
2	Battery for PadFone X Station	ASUS	C11P1323	N/A	N/A

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

NOTE:

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

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 for radiated emission. Following channel(s) was (were) selected for the final test as listed below:

EUT CONFIGURE MODE		AXIS FOR RADIATED EMISSION
A	EIRP	X
	RADIATED EMISSION	Y
B	EIRP	X
	RADIATED EMISSION	Z
C, D	RADIATED EMISSION	X

LTE Band 7

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
A, B	EIRP	20775 to 21425	20775, 21100, 21425	5MHz	QPSK, 16QAM	1 RB / 12 RB Offset
		20800 to 21400	20800, 21100, 21400	10MHz	QPSK, 16QAM	1 RB / 24 RB Offset
A	FREQUENCY STABILITY	20775 to 21425	21100	5MHz	QPSK	1 RB / 12 RB Offset
		20800 to 21400	21100	10MHz	QPSK	1 RB / 24 RB Offset
A	OCCUPIED BANDWIDTH	20775 to 21425	20775, 21100, 21425	5MHz	QPSK, 16QAM	25 RB / 0 RB Offset
		20800 to 21400	20800, 21100, 21400	10MHz	QPSK, 16QAM	50 RB / 0 RB Offset
A	PEAK TO AVERAGE RATIO	20775 to 21425	20775, 21100, 21425	5MHz	QPSK, 16QAM	1 RB / 12 RB Offset
		20800 to 21400	20800, 21100, 21400	10MHz	QPSK, 16QAM	1 RB / 24 RB Offset
A	BAND EDGE	20775 to 21425	20775, 21425	5MHz	QPSK, 16QAM	25 RB / 0 RB Offset
		20800 to 21400	20800, 21400	10MHz	QPSK, 16QAM	50 RB / 0 RB Offset
A	CONDUCTED EMISSION	20775 to 21425	21100	5MHz	QPSK	1 RB / 0 RB Offset
		20800 to 21400	21100	10MHz	QPSK	1 RB / 0 RB Offset
A, B	RADIATED EMISSION	20775 to 21425	21100	5MHz	QPSK	1 RB / 12 RB Offset
		20800 to 21400	21100	10MHz	QPSK	1 RB / 24 RB Offset
C, D	RADIATED EMISSION	20775 to 21425	21100	5MHz	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.

TEST CONDITION:

TEST ITEM	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
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
PEAK TO AVERAGE RATIO	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	Anson Lin / Dylan Yang

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

The radiated peak output power shall be according to the specific rule Part 27.50(h)(2) that “User stations are limited to 2 watts” and 27.50(i) specific that “Peak transmit power must be measure over any interval of continuous transmission using instrumentation calibration in terms of rms-equivalent voltage.”

4.1.2 TEST PROCEDURES

EIRP / ERP MEASUREMENT:

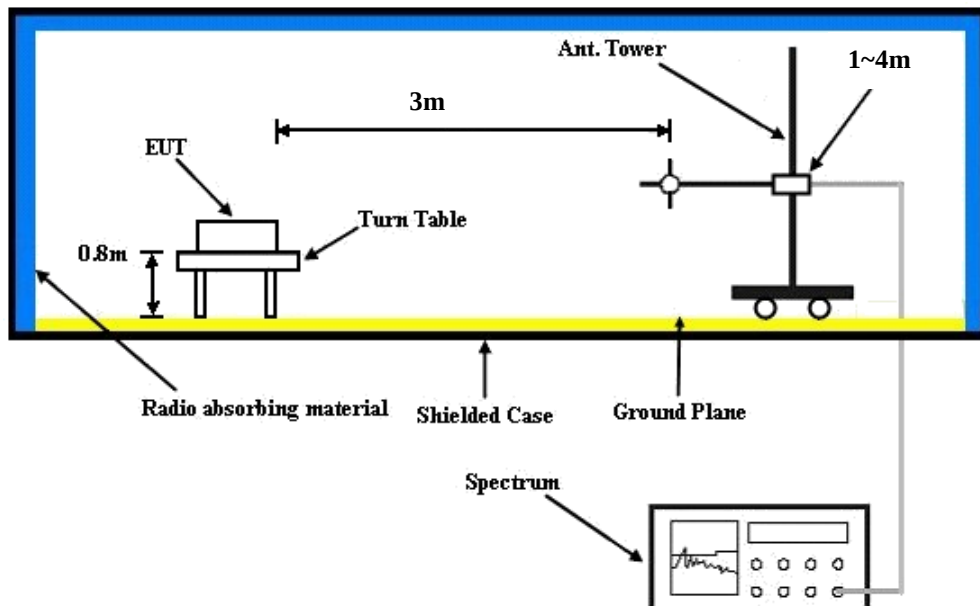
- a. All measurements were done at low, middle and high operational frequency range. RBW and VBW is 10MHz for LTE mode.
- b. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the 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:

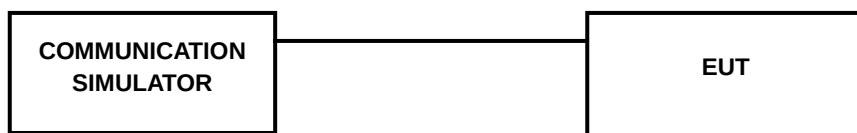
- a. The EUT was set up for the maximum power with LTE link data modulation and link up with simulator.
- b. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

4.1.3 TEST SETUP

EIRP / ERP MEASUREMENT:



CONDUCTED POWER MEASUREMENT:



4.1.4 TEST RESULTS

AVERAGE CONDUCTED OUTPUT POWER (dBm)

Band / BW	Modulation	RB Size	RB Offset	Low CH 20775	Mid CH 21100	High CH 21425	3PGG MPR (dB)
				Frequency 2502.5 MHz	Frequency 2535 MHz	Frequency 2567.5 MHz	
7 / 5M	QPSK	1	0	20.32	20.01	20.04	0
		1	12	20.40	20.09	20.22	0
		1	24	20.29	19.90	20.20	0
		12	0	19.42	19.19	19.22	1
		12	6	19.49	19.17	19.24	1
		12	13	19.40	19.12	19.25	1
		25	0	19.44	19.14	19.25	1
	16QAM	1	0	19.31	19.00	19.03	1
		1	12	19.39	19.08	19.21	1
		1	24	19.28	18.89	19.19	1
		12	0	18.41	18.18	18.21	2
		12	6	18.48	18.16	18.23	2
		12	13	18.39	18.11	18.24	2
		25	0	18.43	18.13	18.24	2

Band / BW	Modulation	RB Size	RB Offset	Low CH 20800	Mid CH 21100	High CH 21140	3PGG MPR (dB)
				Frequency 2505 MHz	Frequency 2535 MHz	Frequency 2565 MHz	
7 / 10M	QPSK	1	0	20.44	20.13	20.16	0
		1	24	20.52	20.21	20.34	0
		1	49	20.41	20.02	20.32	0
		25	0	19.54	19.31	19.34	1
		25	12	19.58	19.29	19.36	1
		25	25	19.52	19.24	19.37	1
		50	0	19.56	19.26	19.37	1
	16QAM	1	0	19.43	19.12	19.15	1
		1	24	19.51	19.20	19.33	1
		1	49	19.40	19.01	19.31	1
		25	0	18.53	18.30	18.33	2
		25	12	18.60	18.28	18.35	2
		25	25	18.51	18.23	18.36	2
		50	0	18.55	18.25	18.36	2

AVERAGE EIRP (dBm)

MODE A

LTE BAND 7

CHANNEL BANDWIDTH: 5MHz QPSK

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
X	20775	2502.5	-19.34	38.52	19.18	82.76	H
	21100	2535.0	-19.38	38.36	18.98	79.09	
	21425	2567.5	-19.64	38.58	18.94	78.40	
	20775	2502.5	-31.88	38.92	7.04	5.06	V
	21100	2535.0	-31.86	39.26	7.40	5.50	
	21425	2567.5	-31.54	39.22	7.68	5.86	

CHANNEL BANDWIDTH: 5MHz 16QAM

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
X	20775	2502.5	-20.46	38.52	18.06	63.94	H
	21100	2535.0	-20.09	38.36	18.27	67.16	
	21425	2567.5	-20.49	38.58	18.09	64.46	
	20775	2502.5	-31.60	38.92	7.32	5.40	V
	21100	2535.0	-31.82	39.26	7.44	5.55	
	21425	2567.5	-31.77	39.22	7.45	5.56	

CHANNEL BANDWIDTH: 10MHz QPSK

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
X	20800	2505.0	-19.40	38.65	19.25	84.12	H
	21100	2535.0	-19.32	38.36	19.04	80.17	
	21400	2565.0	-19.42	38.49	19.07	80.69	
	20800	2505.0	-31.59	38.84	7.25	5.31	V
	21100	2535.0	-31.79	39.26	7.47	5.59	
	21400	2565.0	-31.69	39.10	7.41	5.51	

CHANNEL BANDWIDTH: 10MHz 16QAM

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
X	20800	2505.0	-20.19	38.65	18.46	70.13	H
	21100	2535.0	-20.17	38.36	18.19	65.92	
	21400	2565.0	-20.41	38.49	18.08	64.24	
	20800	2505.0	-31.49	38.84	7.35	5.43	V
	21100	2535.0	-31.73	39.26	7.53	5.67	
	21400	2565.0	-31.63	39.10	7.47	5.58	

MODE B

LTE BAND 7

CHANNEL BANDWIDTH: 5MHz QPSK

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
X	20775	2502.5	-16.96	38.65	21.69	147.54	H
	21100	2535.0	-16.65	38.36	21.71	148.25	
	21425	2567.5	-16.89	38.49	21.60	144.48	
	20775	2502.5	-19.98	38.84	18.86	76.93	V
	21100	2535.0	-20.05	39.26	19.21	83.43	
	21425	2567.5	-20.19	39.10	18.91	77.80	

CHANNEL BANDWIDTH: 5MHz 16QAM

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
X	20775	2502.5	-17.71	38.65	20.94	124.14	H
	21100	2535.0	-17.90	38.36	20.46	111.17	
	21425	2567.5	-17.67	38.49	20.82	120.73	
	20775	2502.5	-20.46	38.84	18.38	68.88	V
	21100	2535.0	-20.67	39.26	18.59	72.33	
	21425	2567.5	-20.40	39.10	18.70	74.13	

CHANNEL BANDWIDTH: 10MHz QPSK

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
X	20800	2505.0	-16.52	38.65	22.13	163.27	H
	21100	2535.0	-16.42	38.36	21.94	156.31	
	21400	2565.0	-16.43	38.49	22.06	160.62	
	20800	2505.0	-19.75	38.84	19.09	81.11	V
	21100	2535.0	-19.82	39.26	19.44	87.96	
	21400	2565.0	-19.97	39.10	19.13	81.85	

CHANNEL BANDWIDTH: 10MHz 16QAM

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
X	20800	2505.0	-17.40	38.65	21.25	133.32	H
	21100	2535.0	-17.69	38.36	20.67	116.68	
	21400	2565.0	-17.32	38.49	21.17	130.86	
	20800	2505.0	-20.33	38.84	18.51	70.97	V
	21100	2535.0	-20.54	39.26	18.72	74.52	
	21400	2565.0	-20.16	39.10	18.94	78.34	

4.2 FREQUENCY STABILITY MEASUREMENT

4.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

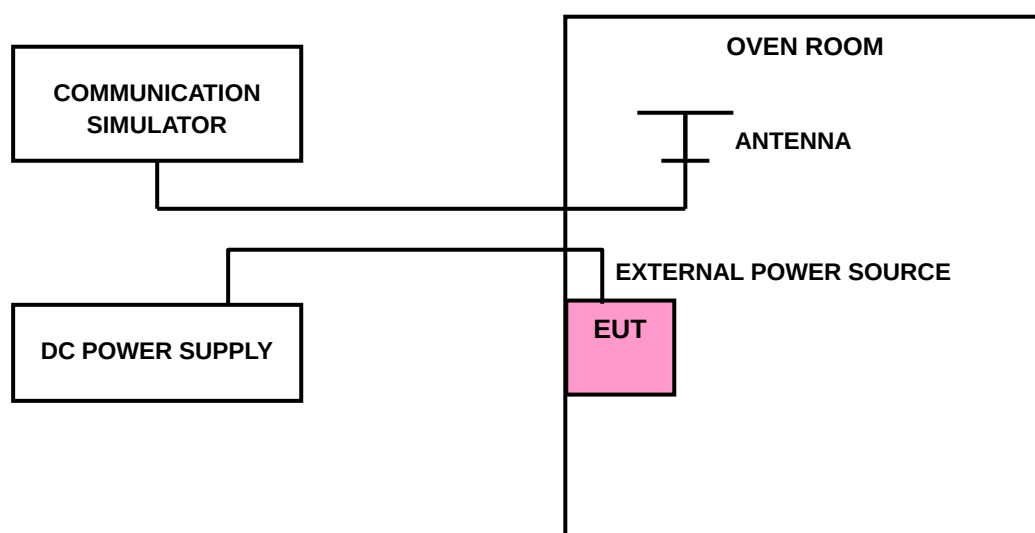
The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

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

FREQUENCY ERROR vs. VOLTAGE

VOLTAGE (Volts)	FREQUENCY ERROR (ppm)		LIMIT (ppm)
	LTE BAND 7		
	5MHz	10MHz	
3.8	-0.0023	0.0009	2.5
3.6	-0.0018	-0.0008	2.5
4.2	-0.0010	0.0017	2.5

NOTE: The applicant defined the normal working voltage of the battery is from 3.6Vdc to 4.2Vdc.

FREQUENCY ERROR vs. TEMPERATURE

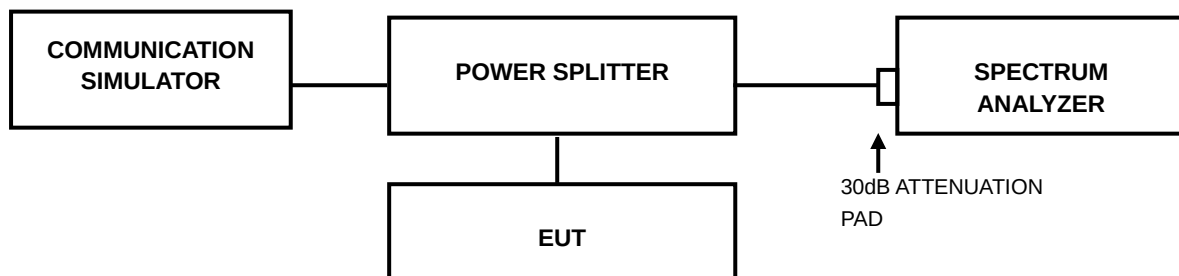
TEMP. (°C)	FREQUENCY ERROR (ppm)		LIMIT (ppm)
	LTE BAND 7		
	5MHz	10MHz	
-30	0.0031	-0.0004	2.5
-20	0.0018	-0.0026	2.5
-10	0.0022	0.0010	2.5
0	-0.0014	-0.0013	2.5
10	-0.0002	0.0011	2.5
20	0.0033	0.0009	2.5
30	-0.0037	0.0017	2.5
40	-0.0006	-0.0014	2.5
50	0.0034	-0.0014	2.5

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

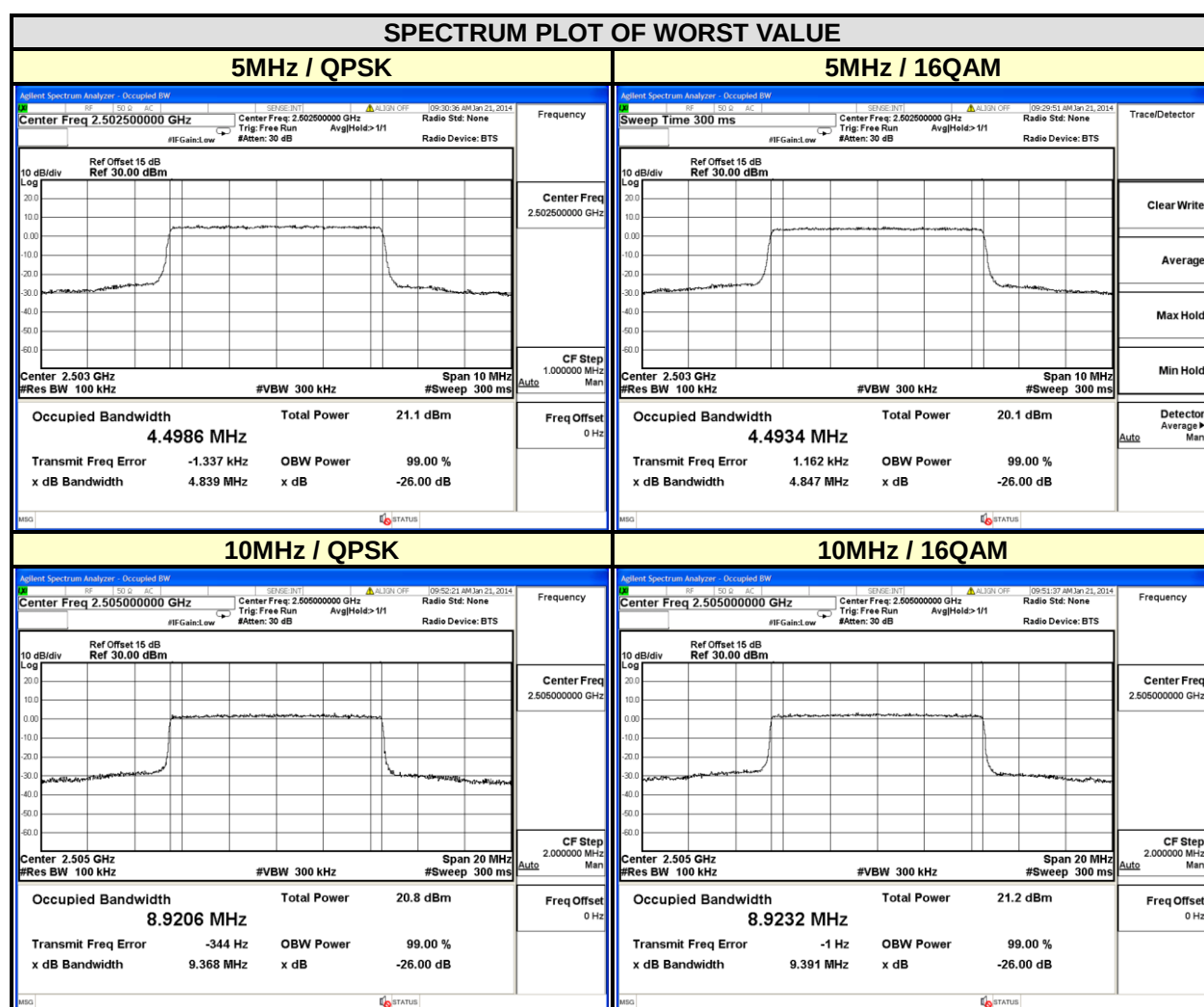


4.3.3 TEST PROCEDURES

- 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 7							
CHANNEL BANDWIDTH: 5MHz				CHANNEL BANDWIDTH: 10MHz			
CHANNEL	FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH (MHz)		CHANNEL	FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH (MHz)	
		QPSK	16QAM			QPSK	16QAM
20775	2502.5	4.4986	4.4934	20800	2505.0	8.9206	8.9232
21100	2535.0	4.4928	4.4909	21100	2535.0	8.9132	8.9199
21425	2567.5	4.4945	4.4856	21400	2565.0	8.9111	8.9117

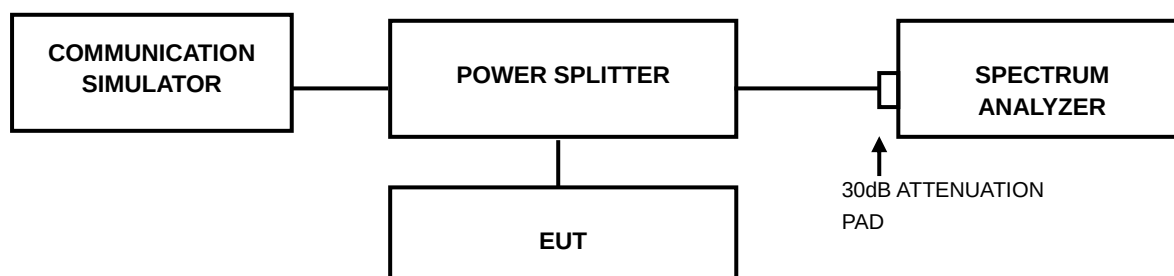


4.4 PEAK TO AVERAGE RATIO

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

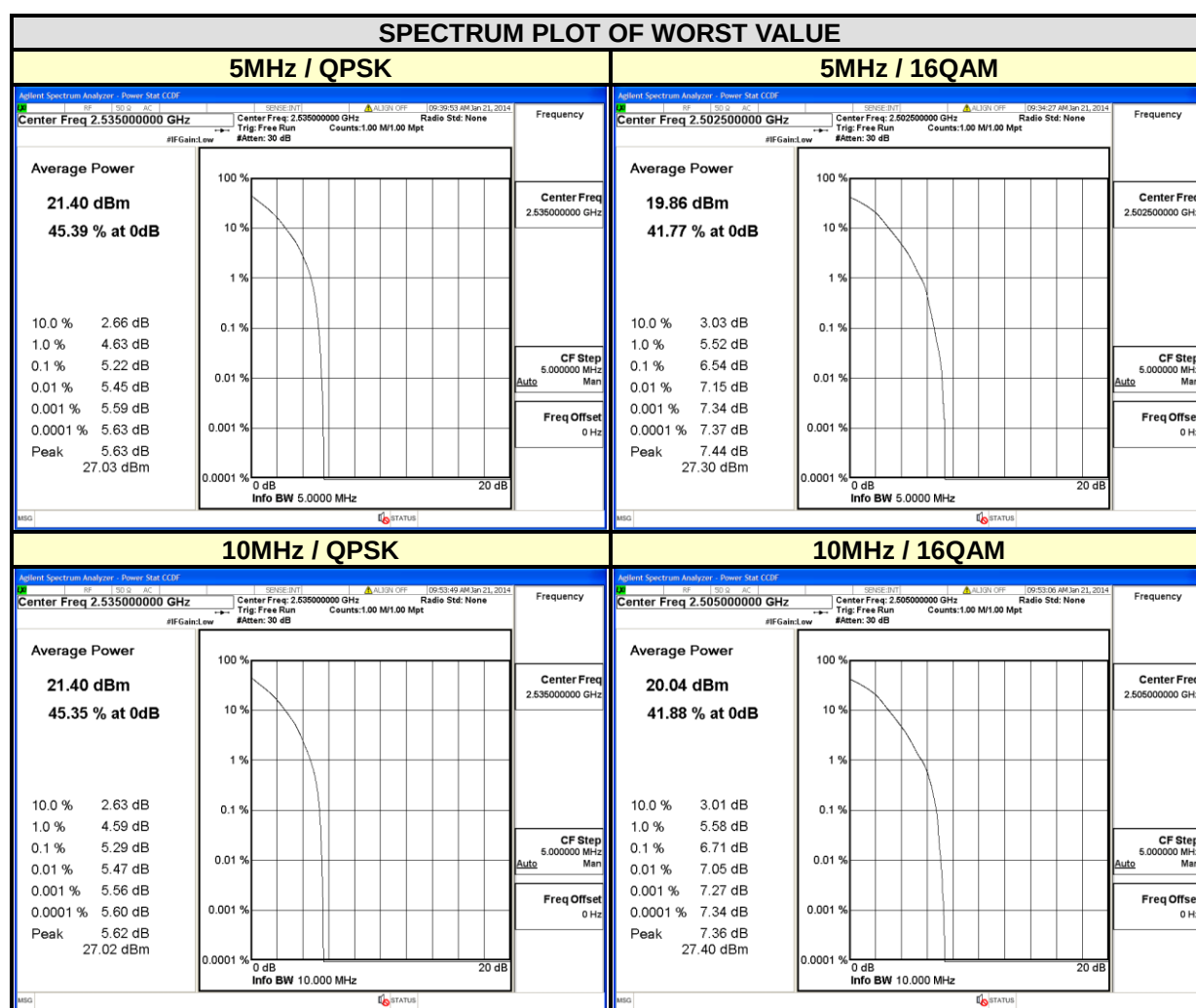


4.4.3 TEST PROCEDURES

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 7							
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
20775	2502.5	4.86	6.54	20800	2505.0	4.91	6.71
21100	2535.0	5.22	6.44	21100	2535.0	5.29	6.60
21425	2567.5	4.90	6.17	21400	2565.0	5.05	6.40

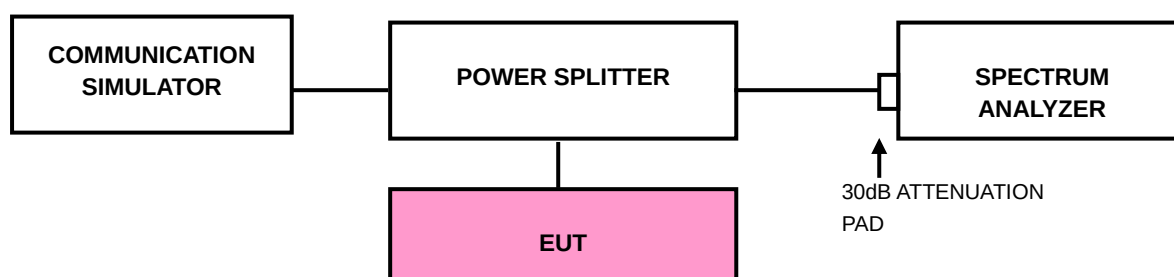


4.5 BAND EDGE MEASUREMENT

4.5.1 LIMITS OF BAND EDGE MEASUREMENT

According to FCC 27.53(m)(4) specified that power of any emission outside of the channel edge must be attenuated below the transmitting power (P) by a factor shall be not less than $43 + 10 \log (P)$ dB at the channel edge, the limit of emission equal to -13dBm . And $55 + 10 \log (P)$ dB at 5.5 MHz from the channel edges, the limit of emission equal to -25dBm . In the 1MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

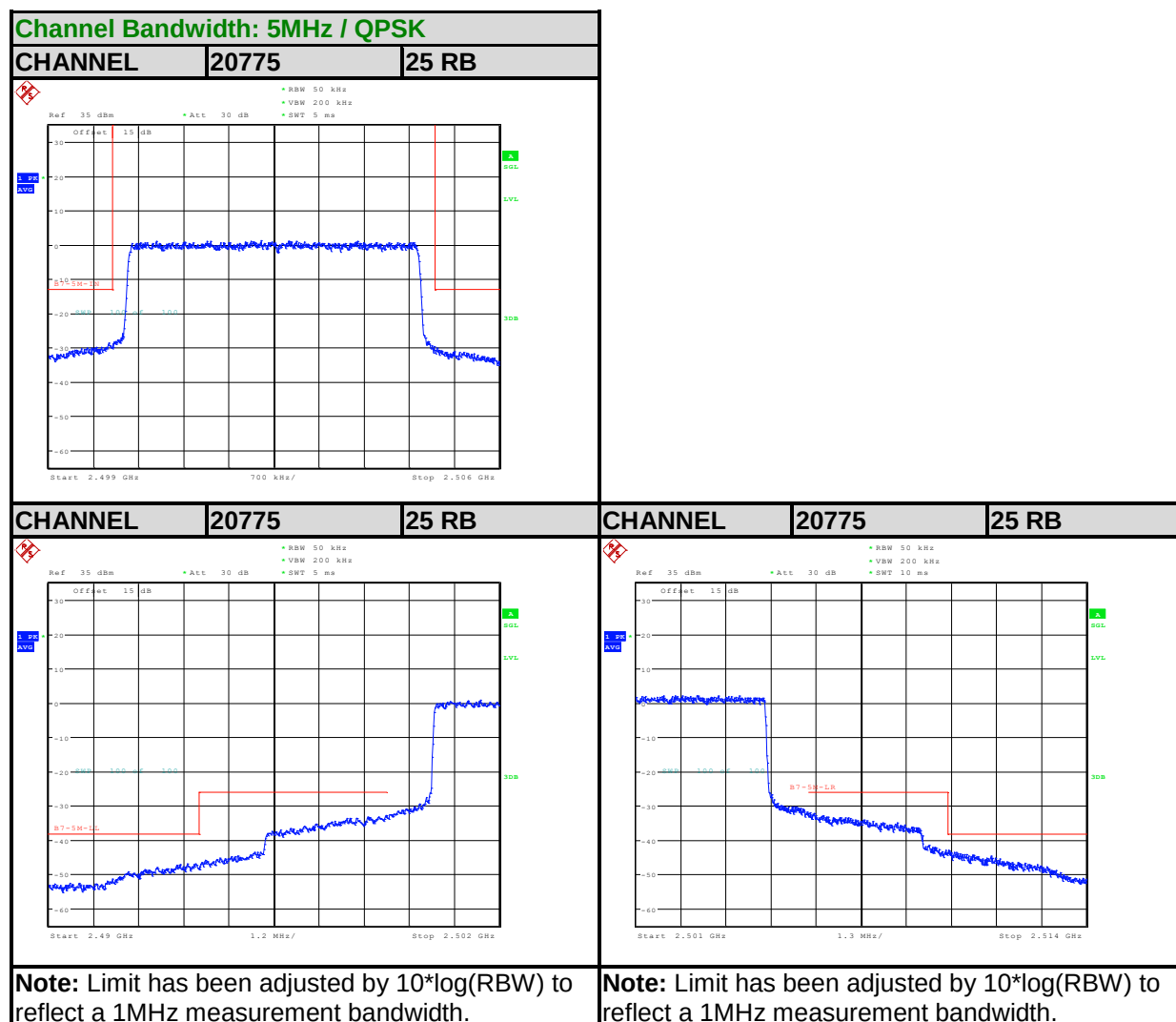
4.5.2 TEST SETUP

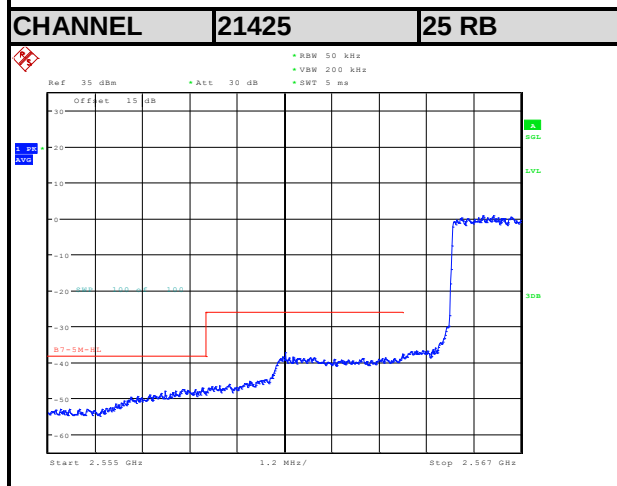
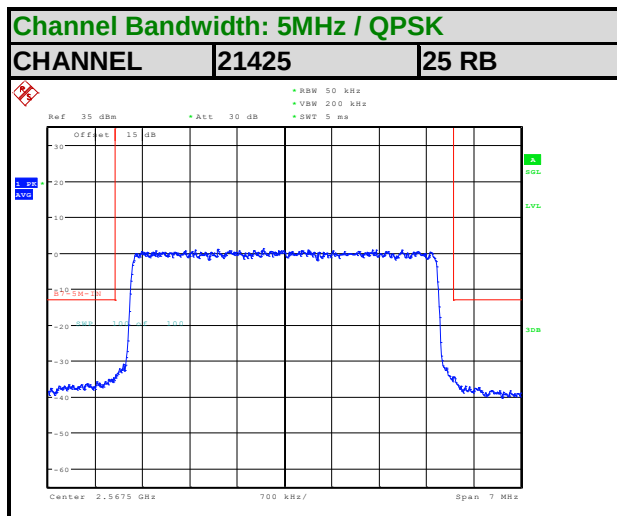


4.5.3 TEST PROCEDURES

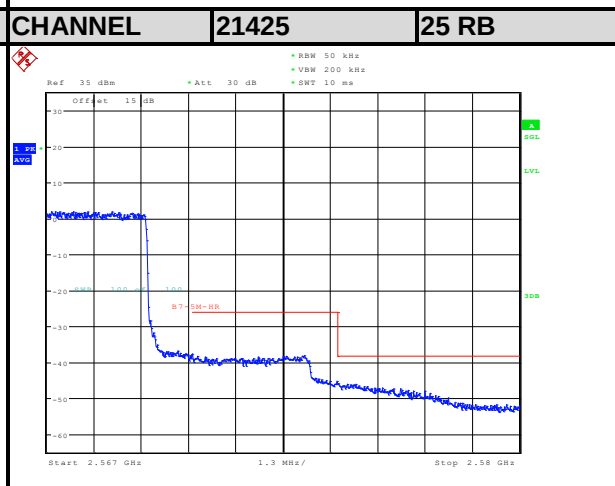
- a. The EUT was set up for the maximum peak power with LTE link data modulation. The power was measured with R&S Spectrum Analyzer. All measurements were done at 2 channels (low and high operational frequency range.).
- b. The band edge measurement used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.
- c. The center frequency of spectrum is the band edge frequency. RB of the spectrum is 50kHz and VB of the spectrum is 200kHz (Channel bandwidth 5MHz).
- d. The center frequency of spectrum is the band edge frequency. RB of the spectrum is 100kHz and VB of the spectrum is 300kHz (Channel bandwidth 10MHz).
- e. The center frequency of spectrum is the band edge frequency. RB of the spectrum is 200kHz and VB of the spectrum is 1MHz (Channel bandwidth 15MHz).
- f. The center frequency of spectrum is the band edge frequency. RB of the spectrum is 200kHz and VB of the spectrum is 1MHz (Channel bandwidth 20MHz).
- g. Record the max trace plot into the test report.

4.5.4 TEST RESULTS

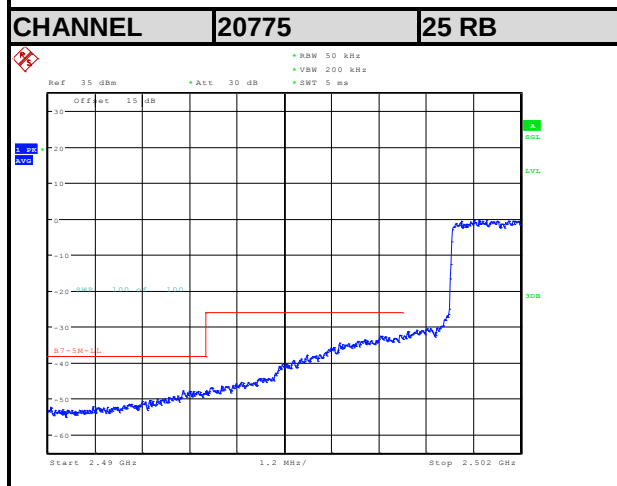
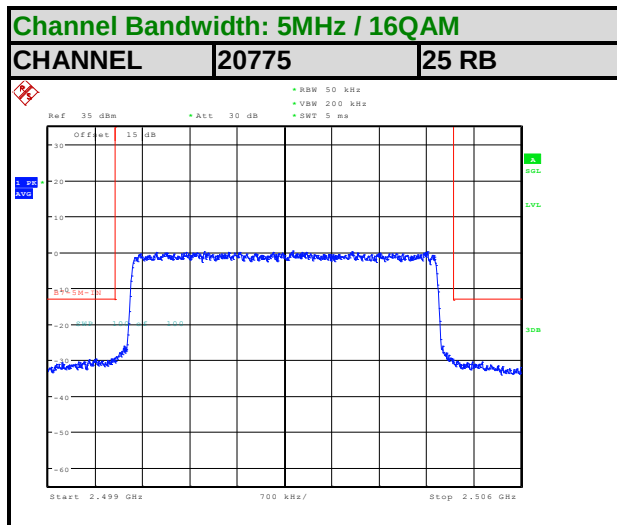




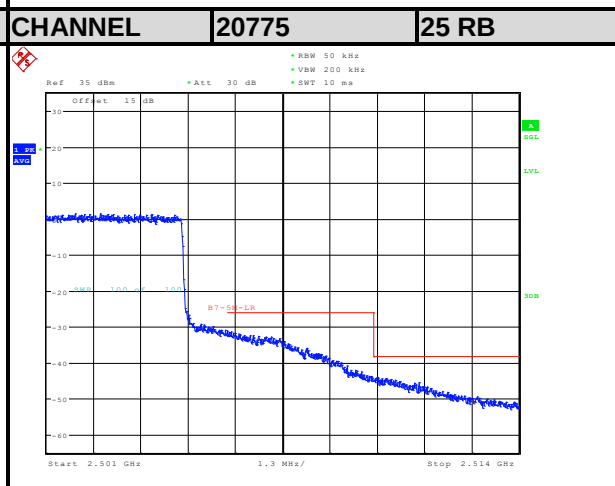
Note: Limit has been adjusted by $10 \cdot \log(\text{RBW})$ to reflect a 1MHz measurement bandwidth.



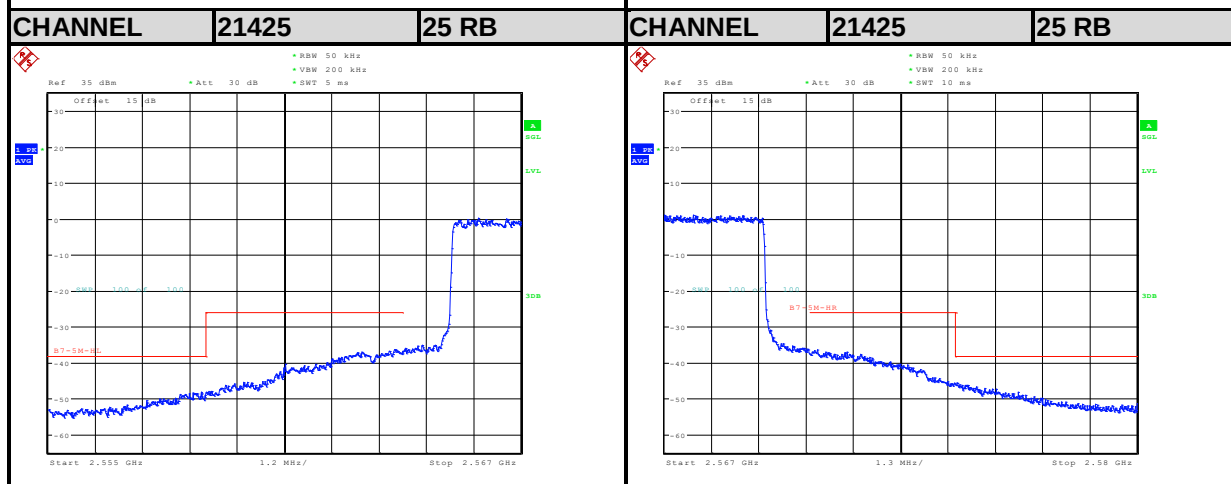
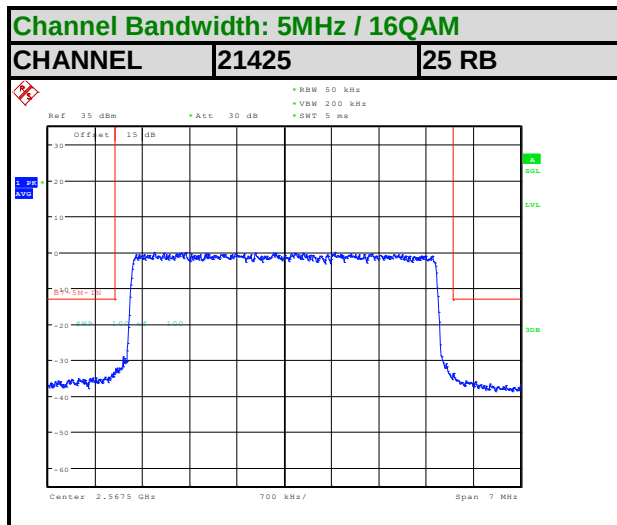
Note: Limit has been adjusted by $10 \cdot \log(\text{RBW})$ to reflect a 1MHz measurement bandwidth.



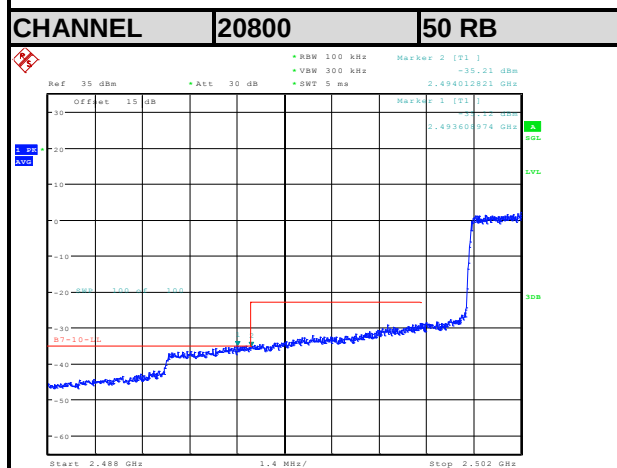
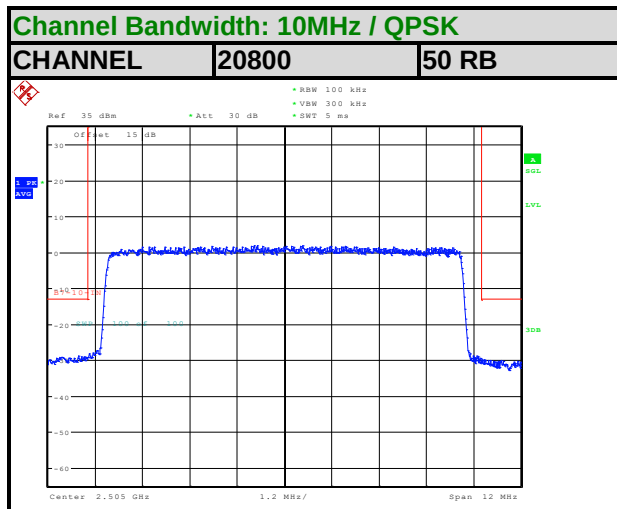
Note: Limit has been adjusted by $10 \cdot \log(\text{RBW})$ to reflect a 1MHz measurement bandwidth.



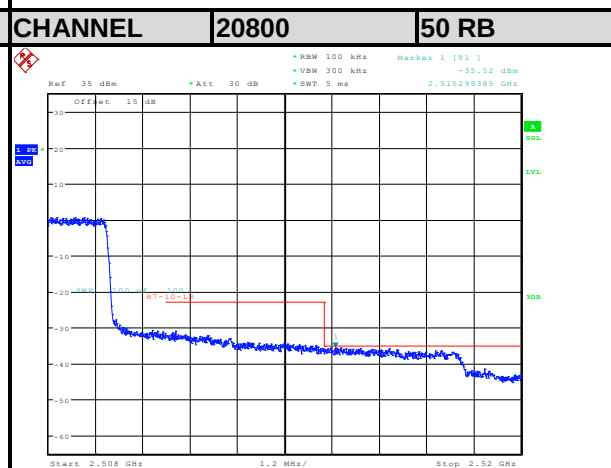
Note: Limit has been adjusted by $10 \cdot \log(\text{RBW})$ to reflect a 1MHz measurement bandwidth.



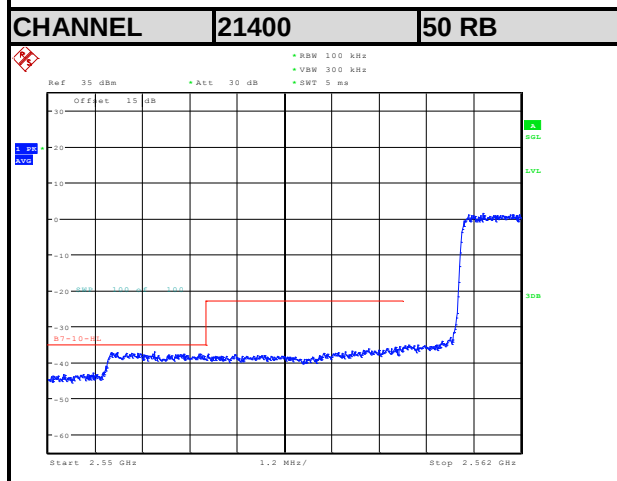
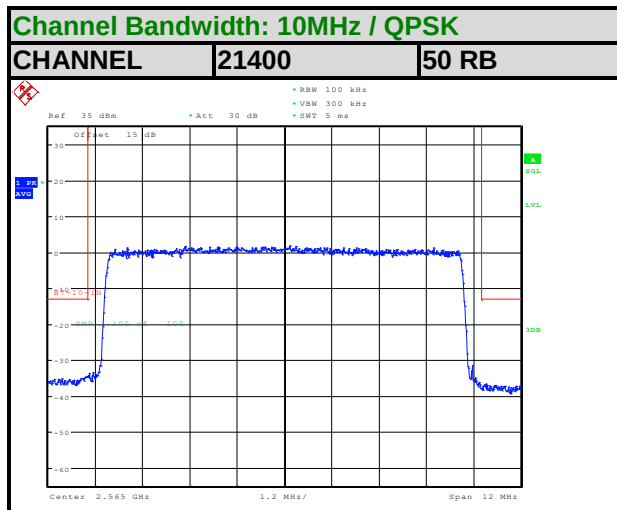
Note: Limit has been adjusted by $10 \cdot \log(\text{RBW})$ to reflect a 1MHz measurement bandwidth.



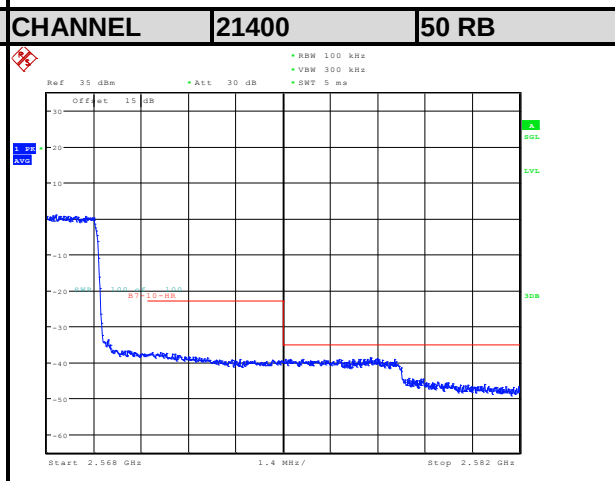
Note: Limit has been adjusted by $10 \cdot \log(\text{RBW})$ to reflect a 1MHz measurement bandwidth.



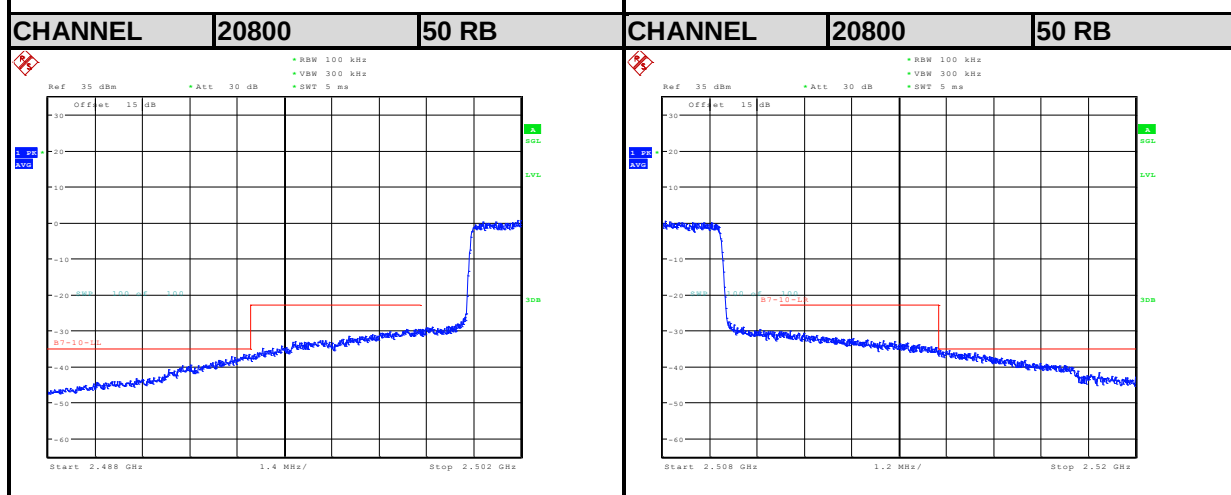
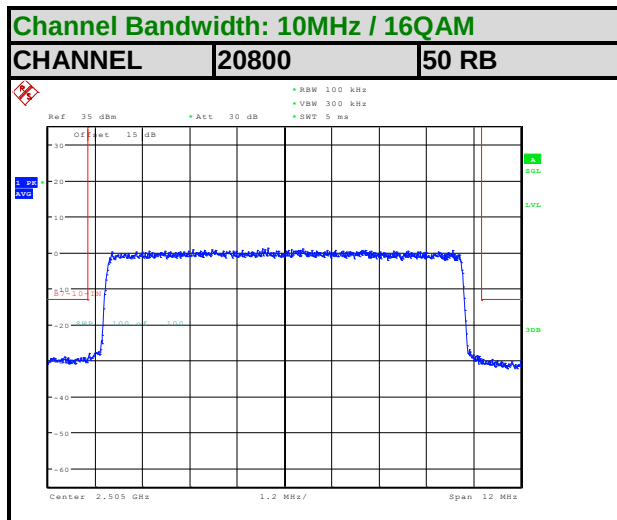
Note: Limit has been adjusted by $10 \cdot \log(\text{RBW})$ to reflect a 1MHz measurement bandwidth.



Note: Limit has been adjusted by $10 \cdot \log(\text{RBW})$ to reflect a 1MHz measurement bandwidth.

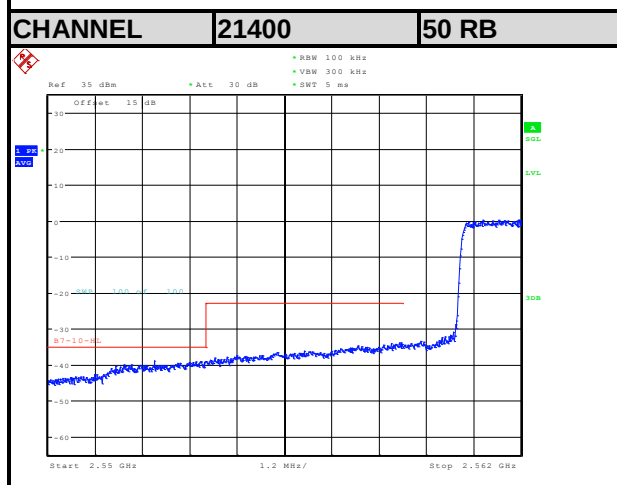
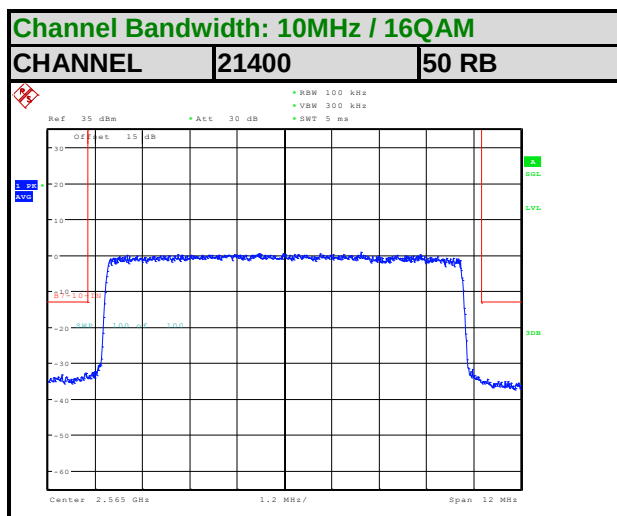


Note: Limit has been adjusted by $10 \cdot \log(\text{RBW})$ to reflect a 1MHz measurement bandwidth.

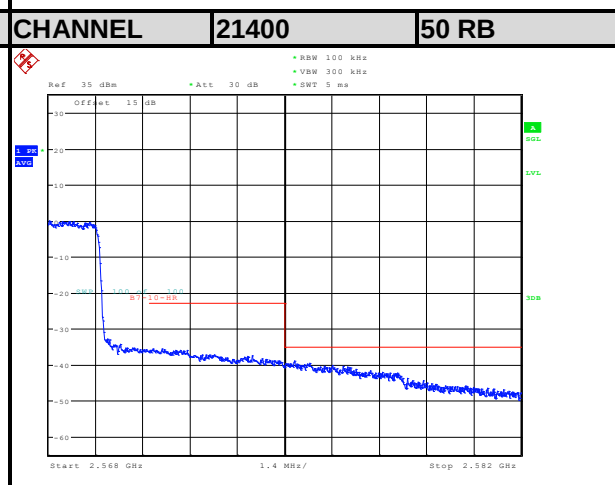


Note: Limit has been adjusted by $10 \cdot \log(\text{RBW})$ to reflect a 1MHz measurement bandwidth.

Note: Limit has been adjusted by $10 \cdot \log(\text{RBW})$ to reflect a 1MHz measurement bandwidth.



Note: Limit has been adjusted by $10 \cdot \log(\text{RBW})$ to reflect a 1MHz measurement bandwidth.



Note: Limit has been adjusted by $10 \cdot \log(\text{RBW})$ to reflect a 1MHz measurement bandwidth.

4.6 CONDUCTED SPURIOUS EMISSIONS

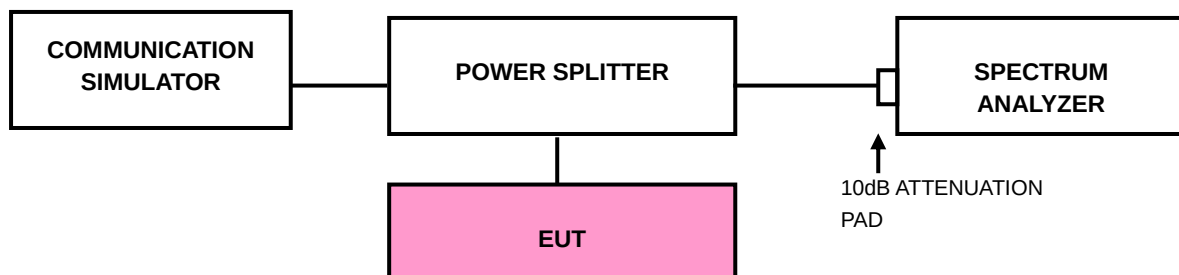
4.6.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $55 + 10 \log_{10}(P)$ dB. The limit of emission equal to -25dBm

4.6.2 TEST PROCEDURE

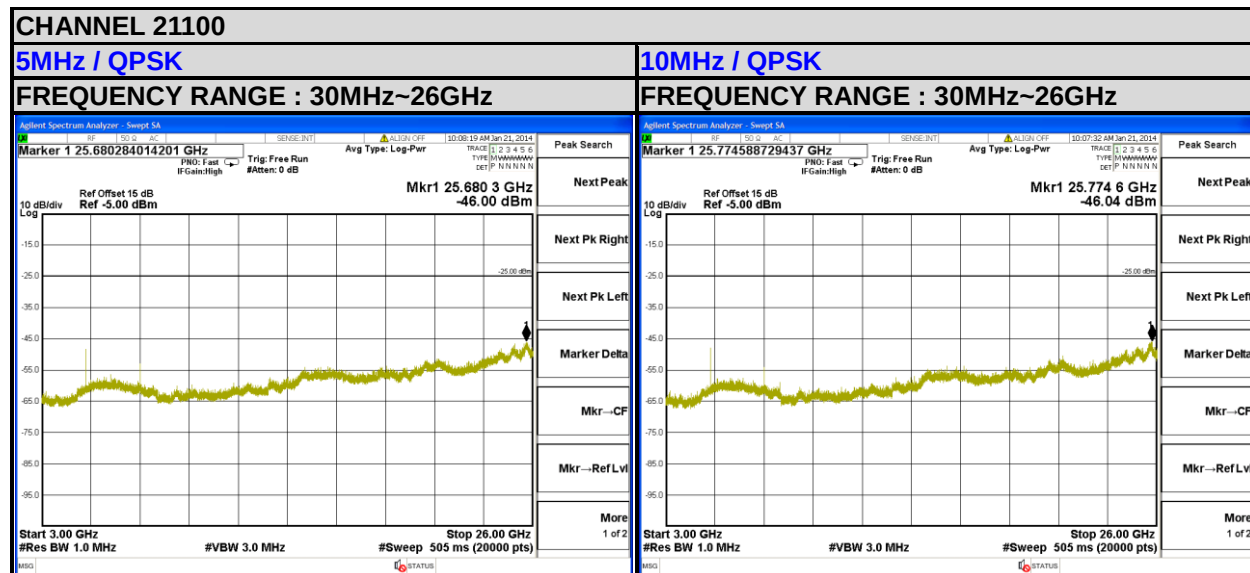
- The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range.
- Measuring frequency range is from 30 MHz to 26GHz for LTE Band 7. 10dB attenuation pad is connected with spectrum. RBW=1MHz and VBW=3MHz are used for conducted emission measurement.

4.6.3 TEST SETUP



4.6.4 TEST RESULTS

LTE BAND 7



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 $55 + 10 \log_{10}(P)$ dB. The limit of emission equal to -25dBm

4.7.2 TEST PROCEDURES

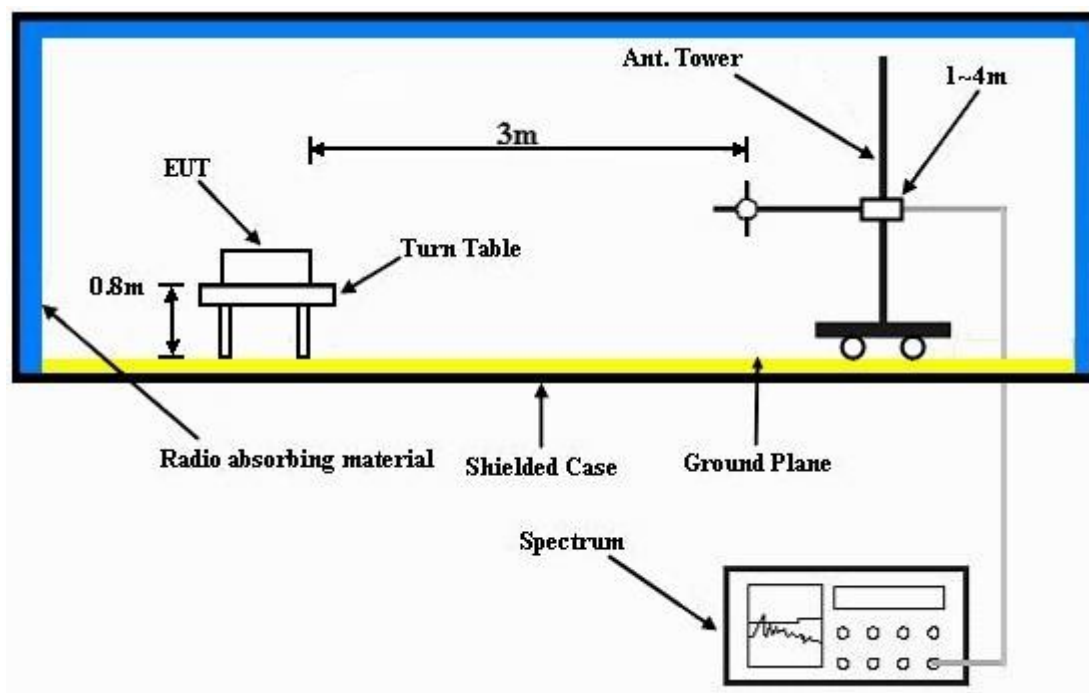
- a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 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).



A D T

4.7.5 TEST RESULTS

MODE A

LTE BAND 7

CHANNEL BANDWIDTH: 5MHz / QPSK

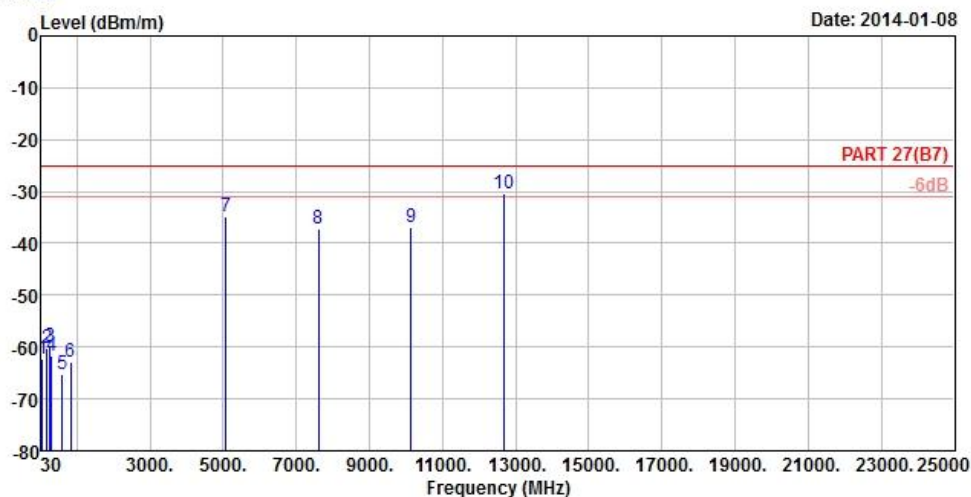


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 15

Date: 2014-01-08



Site : 966 Chamber 5
Condition : PART 27(B7) 3m HORIZONTAL
Brand/Model: A91
Remark : LTE Band 7_5M QPSK(1,12) Link
Tested by : Anson Lin
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	51.06	-62.15	-57.40	-13.00	-49.15	-4.75 Peak
2	182.55	-60.17	-54.27	-13.00	-47.17	-5.90 Peak
3	260.58	-60.05	-54.22	-13.00	-47.05	-5.83 Peak
4	305.60	-61.61	-55.27	-13.00	-48.61	-6.34 Peak
5	593.30	-65.22	-64.68	-13.00	-52.22	-0.54 Peak
6	832.70	-62.83	-65.15	-13.00	-49.83	2.32 Peak
7	5070.00	-34.83	-31.53	-25.00	-9.83	-3.30 Peak
8	7605.00	-37.25	-41.11	-25.00	-12.25	3.86 Peak
9	10140.00	-36.82	-43.54	-25.00	-11.82	6.72 Peak
10 pp	12675.00	-30.55	-40.12	-25.00	-5.55	9.57 Peak



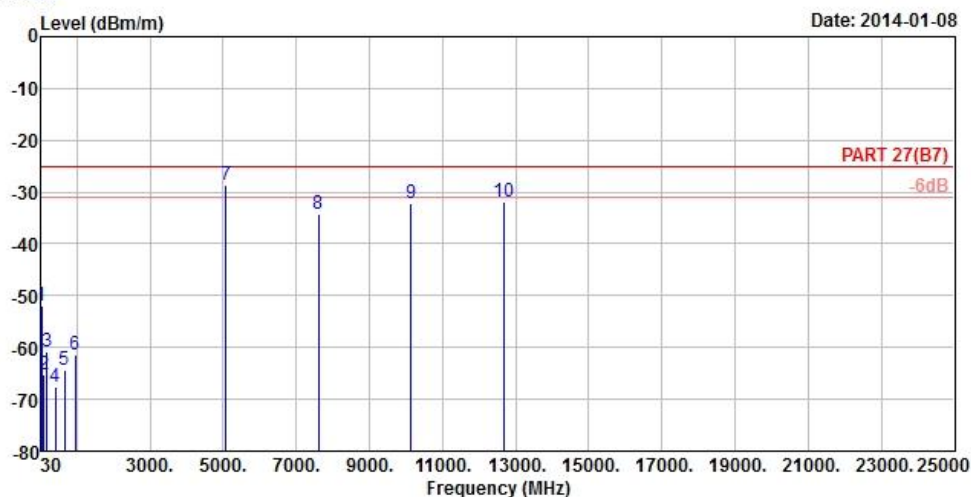
A D T



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 16



Site : 966 Chamber 5
Condition : PART 27(B7) 3m VERTICAL
Brand/Model: A91
Remark : LTE Band 7_5M QPSK(1,12) Link
Tested by : Anson Lin
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	40.26	-51.90	-50.44	-13.00	-38.90	-1.46 Peak
2	99.93	-65.10	-54.70	-13.00	-52.10	-10.40 Peak
3	189.03	-60.89	-54.19	-13.00	-47.89	-6.70 Peak
4	409.90	-67.46	-62.09	-13.00	-54.46	-5.37 Peak
5	661.20	-64.44	-65.19	-13.00	-51.44	0.75 Peak
6	958.00	-61.39	-65.24	-13.00	-48.39	3.85 Peak
7 pp	5070.00	-28.75	-25.45	-25.00	-3.75	-3.30 Peak
8	7605.00	-34.26	-38.12	-25.00	-9.26	3.86 Peak
9	10140.00	-32.18	-38.90	-25.00	-7.18	6.72 Peak
10	12675.00	-32.02	-41.59	-25.00	-7.02	9.57 Peak



A D T

CHANNEL BANDWIDTH: 10MHz / QPSK

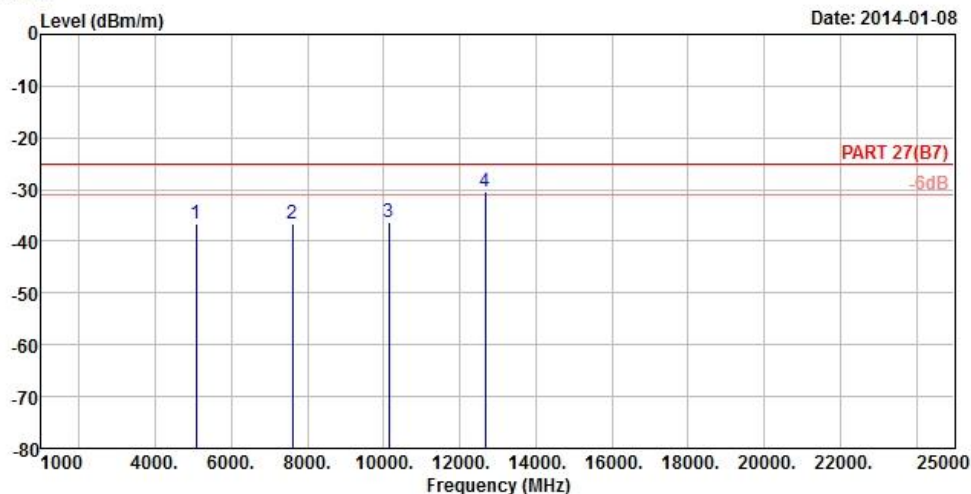


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 11

Date: 2014-01-08



Site : 966 Chamber 5
Condition : PART 27(B7) 3m HORIZONTAL
Brand/Model: A91
Remark : LTE Band 7_10M QPSK(1,24) Link
Tested by : Anson Lin
Temperature : 25°C
Humidity : 65%
Plane : Y

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	5070.00	-36.55	-33.25	-25.00	-11.55	-3.30	Peak
2	7605.00	-36.61	-40.47	-25.00	-11.61	3.86	Peak
3	10140.00	-36.40	-43.12	-25.00	-11.40	6.72	Peak
4 pp	12675.00	-30.26	-39.83	-25.00	-5.26	9.57	Peak



A D T

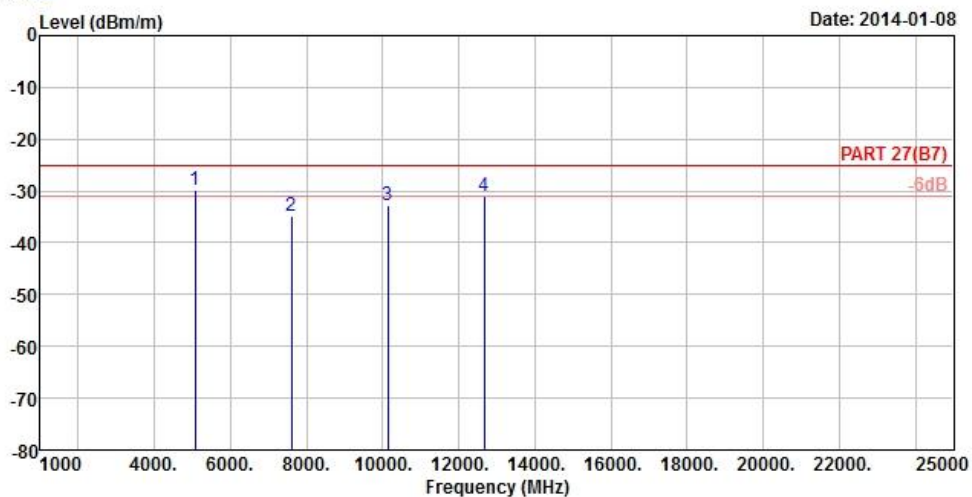


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 12

Date: 2014-01-08



Site : 966 Chamber 5
Condition : PART 27(B7) 3m VERTICAL
Brand/Model: A91
Remark : LTE Band 7_10M QPSK(1,24) Link
Tested by : Anson Lin
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	pp	5070.00	-29.81	-26.51	-25.00	-4.81	-3.30 Peak
2		7605.00	-34.78	-38.64	-25.00	-9.78	3.86 Peak
3		10140.00	-32.86	-39.58	-25.00	-7.86	6.72 Peak
4		12675.00	-31.02	-40.59	-25.00	-6.02	9.57 Peak



A D T

MODE B

LTE BAND 7

CHANNEL BANDWIDTH: 5MHz / QPSK

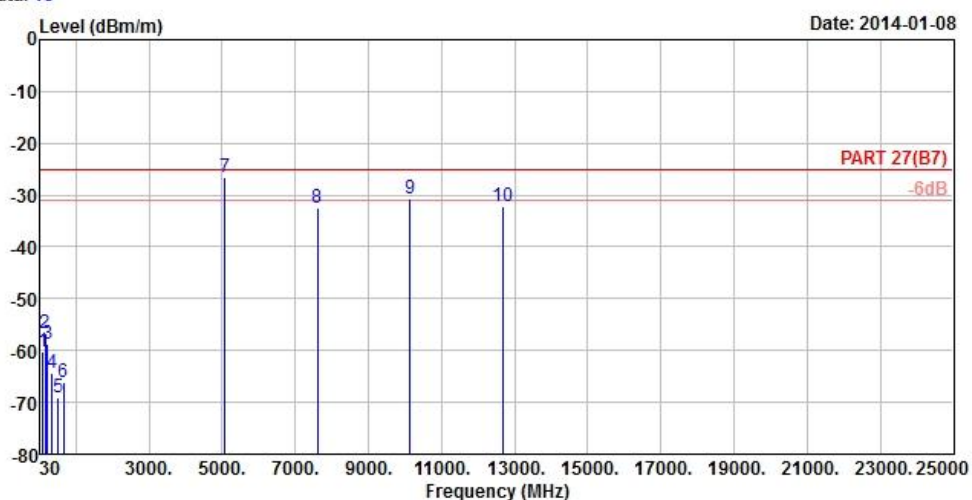


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 15

Date: 2014-01-08



Site : 966 Chamber 5
Condition : PART 27(B7) 3m HORIZONTAL
Brand/Model: A91 (Phone+Pad)
Remark : LTE Band 7_5M QPSK(1,12) Link
Tested by : Anson Lin
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	103.71	-60.10	-49.62	-13.00	-47.10	-10.48	Peak
2	166.35	-56.62	-49.98	-13.00	-43.62	-6.64	Peak
3	220.89	-58.60	-51.61	-13.00	-45.60	-6.99	Peak
4	356.00	-64.39	-58.43	-13.00	-51.39	-5.96	Peak
5	525.40	-68.97	-66.57	-13.00	-55.97	-2.40	Peak
6	661.90	-66.00	-66.75	-13.00	-53.00	0.75	Peak
7 pp	5070.00	-26.68	-23.38	-25.00	-1.68	-3.30	Peak
8	7605.00	-32.59	-36.45	-25.00	-7.59	3.86	Peak
9 !	10140.00	-30.79	-37.51	-25.00	-5.79	6.72	Peak
10	12675.00	-32.04	-41.61	-25.00	-7.04	9.57	Peak



A D T

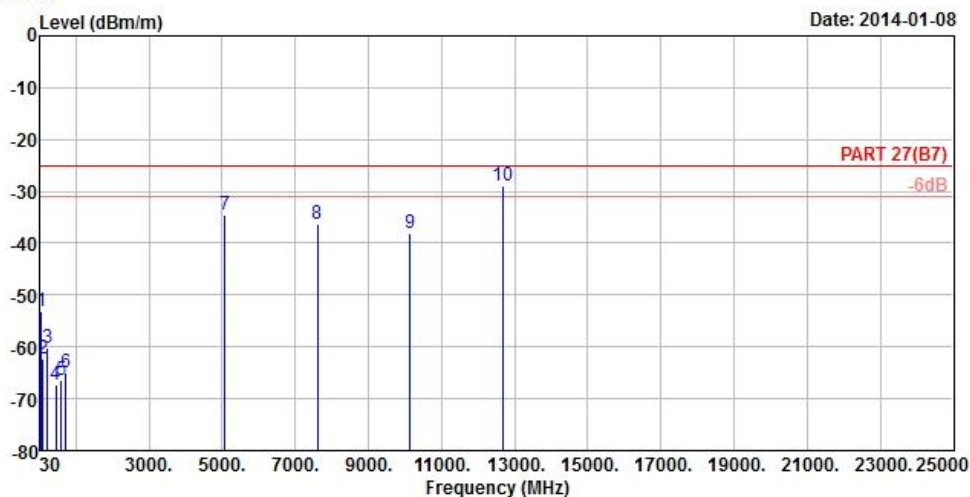


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 16

Date: 2014-01-08



Site : 966 Chamber 5
Condition : PART 27(B7) 3m VERTICAL
Brand/Model: A91 (Phone+Pad)
Remark : LTE Band 7_5M QPSK(1,12) Link
Tested by : Anson Lin
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	61.05	-53.24	-46.82	-13.00	-40.24	-6.42	Peak
2	96.15	-62.26	-51.79	-13.00	-49.26	-10.47	Peak
3	216.03	-60.18	-52.97	-13.00	-47.18	-7.21	Peak
4	449.10	-67.33	-62.94	-13.00	-54.33	-4.39	Peak
5	604.50	-66.35	-66.07	-13.00	-53.35	-0.28	Peak
6	721.40	-64.99	-66.59	-13.00	-51.99	1.60	Peak
7	5070.00	-34.66	-31.36	-25.00	-9.66	-3.30	Peak
8	7605.00	-36.32	-40.18	-25.00	-11.32	3.86	Peak
9	10140.00	-38.16	-44.88	-25.00	-13.16	6.72	Peak
10 pp	12675.00	-29.02	-38.59	-25.00	-4.02	9.57	Peak



A D T

CHANNEL BANDWIDTH: 10MHz / QPSK

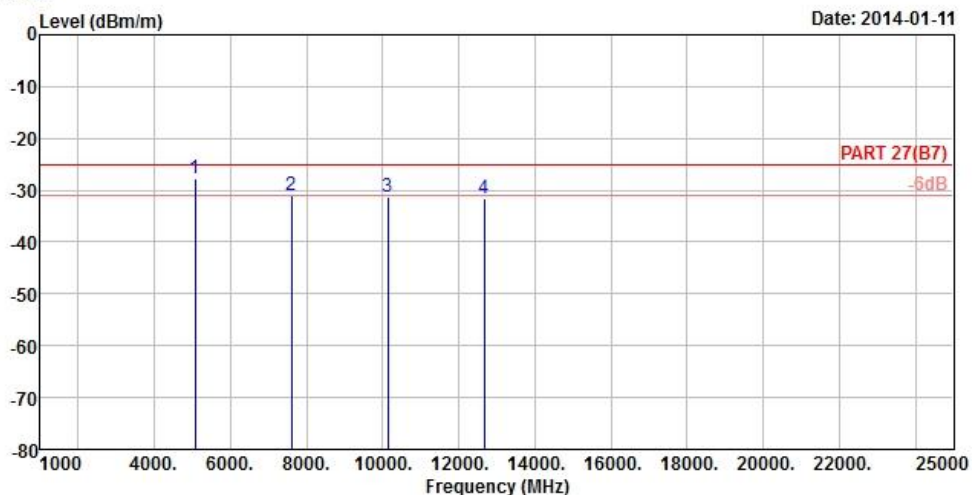


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 11

Date: 2014-01-11



Site : 966 Chamber 5
Condition : PART 27(B7) 3m HORIZONTAL
Brand/Model: A91 (Phone+Pad)
Remark : LTE Band 7_10M QPSK(1,24) Link
Tested by : Anson Lin
Temperature : 25°C
Humidity : 65%
Plane : Z

	Freq	Level	Read	Limit	Over		
	MHz	dBm/m	Level	Line	Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1 pp	5070.00	-27.76	-24.46	-25.00	-2.76	-3.30	Peak
2	7605.00	-31.02	-34.88	-25.00	-6.02	3.86	Peak
3	10140.00	-31.35	-38.07	-25.00	-6.35	6.72	Peak
4	12675.00	-31.55	-41.12	-25.00	-6.55	9.57	Peak



A D T

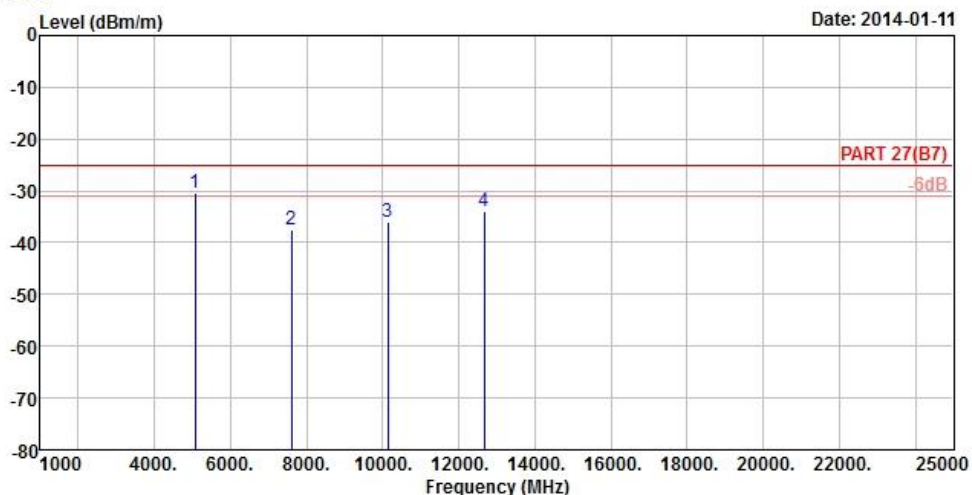


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 12

Date: 2014-01-11



Site : 966 Chamber 5
Condition : PART 27(B7) 3m VERTICAL
Brand/Model: A91 (Phone+Pad)
Remark : LTE Band 7_10M QPSK(1,24) Link
Tested by : Anson Lin
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 pp	5070.00	-30.35	-27.05	-25.00	-5.35	-3.30	Peak
2	7605.00	-37.44	-41.30	-25.00	-12.44	3.86	Peak
3	10140.00	-35.99	-42.71	-25.00	-10.99	6.72	Peak
4	12675.00	-33.82	-43.39	-25.00	-8.82	9.57	Peak

MODE C

LTE BAND 7

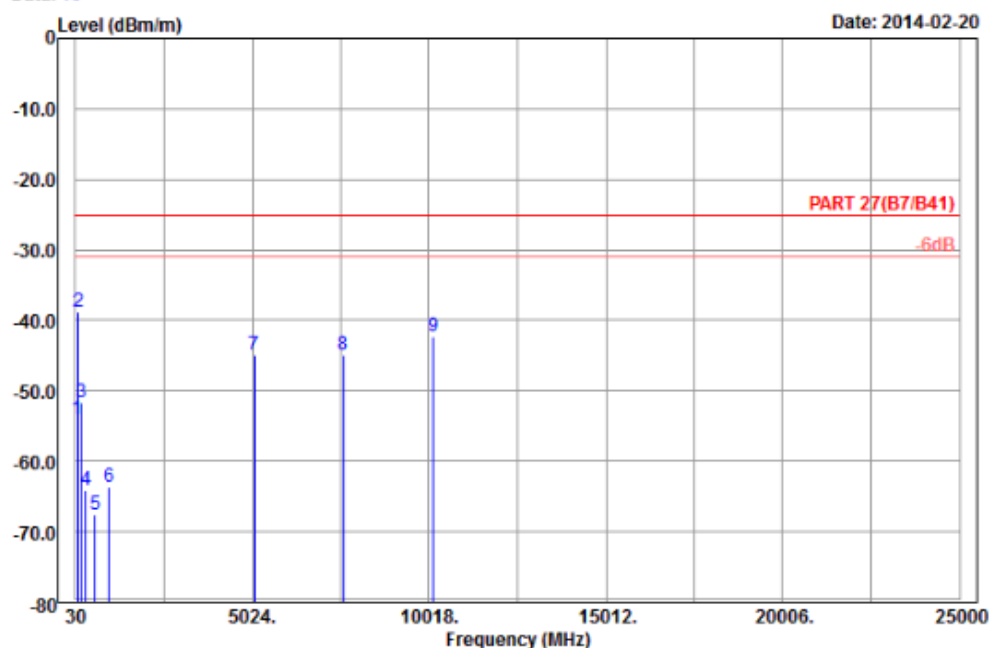
CHANNEL BANDWIDTH: 5MHz / QPSK



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

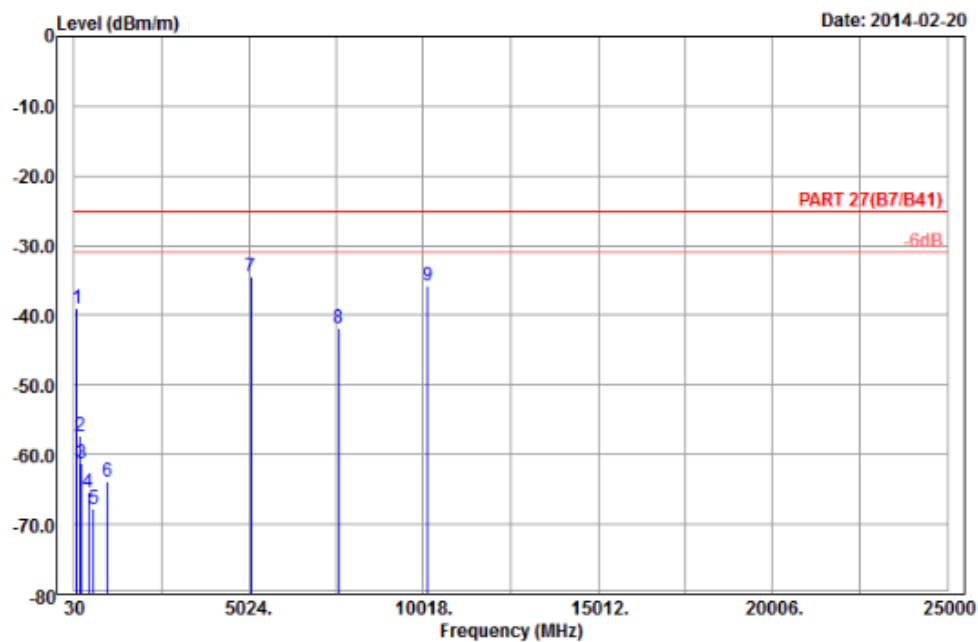
Data: 13



Site : 966 chamber 5
Condition : PART 27(B7/B41) 3m Horizontal
Brand/Model: A91_2nd
Remark : LTE B7 5M_Link_CH21100
Tested by : Dylan Yang
Plane : X

		Read	Limit	Over			
	Freq	Level	Level	Line	Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	77.52	-54.16	-42.14	-25.00	-29.16	-12.02	Peak
2	pp 97.50	-38.72	-28.49	-25.00	-13.72	-10.23	Peak
3	192.81	-51.70	-45.83	-25.00	-26.70	-5.87	Peak
4	314.70	-64.12	-58.34	-25.00	-39.12	-5.78	Peak
5	594.00	-67.47	-67.62	-25.00	-42.47	0.15	Peak
6	969.90	-63.65	-68.82	-25.00	-38.65	5.17	Peak
7	5072.00	-44.84	-64.23	-25.00	-19.84	19.39	Peak
8	7605.00	-44.82	-67.81	-25.00	-19.82	22.99	Peak
9	10140.00	-42.36	-68.78	-25.00	-17.36	26.42	Peak

Data: 14



Site : 966 chamber 5
Condition : PART 27(B7/B41) 3m Vertical
Brand/Model: A91_2nd
Remark : LTE B7 5M_Link_CH21100
Tested by : Dylan Yang
Plane : X

			Read	Limit	Over	
	Freq	Level	Level	Line	Limit	Factor Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m
1	95.34	-39.06	-28.66	-25.00	-14.06	-10.40 Peak
2	188.49	-57.32	-51.62	-25.00	-32.32	-5.70 Peak
3	241.68	-61.34	-55.72	-25.00	-36.34	-5.62 Peak
4	424.60	-65.44	-62.15	-25.00	-40.44	-3.29 Peak
5	580.00	-67.71	-67.29	-25.00	-42.71	-0.42 Peak
6	964.30	-63.93	-69.08	-25.00	-38.93	5.15 Peak
7 pp	5070.00	-34.37	-53.76	-25.00	-9.37	19.39 Peak
8	7605.00	-41.85	-64.84	-25.00	-16.85	22.99 Peak
9	10140.00	-35.65	-62.07	-25.00	-10.65	26.42 Peak

MODE D

LTE BAND 7

CHANNEL BANDWIDTH: 5MHz / QPSK

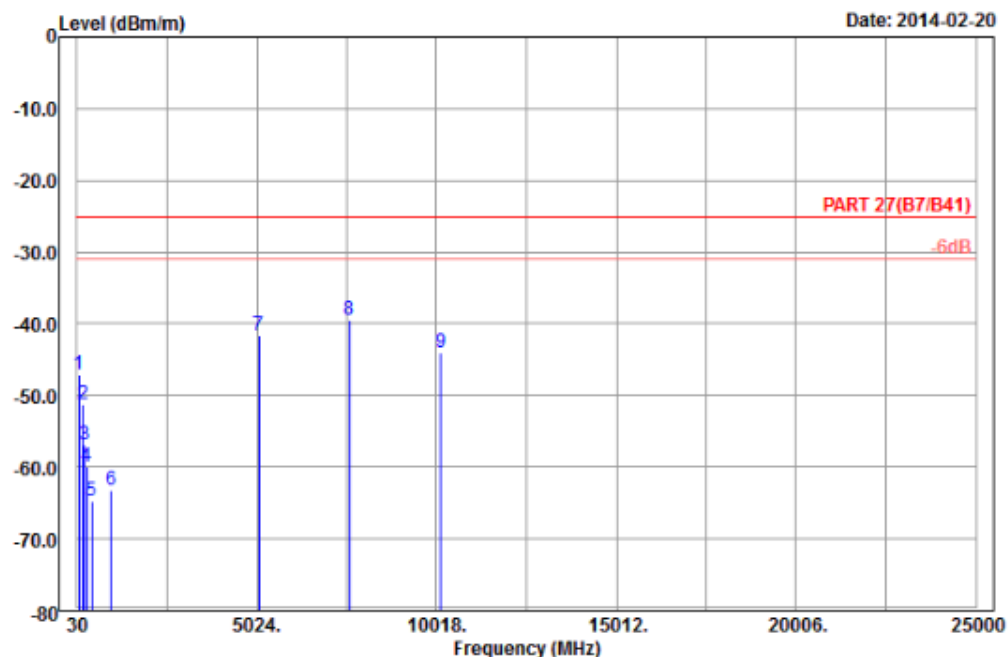


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 13

Date: 2014-02-20



Site : 966 chamber 5
Condition : PART 27(B7/B41) 3m Horizontal
Brand/Model: A91_2nd
Remark : LTE B7 5M_Link_CH21100 (phone+pad)
Tested by : Dylan Yang
Plane : X

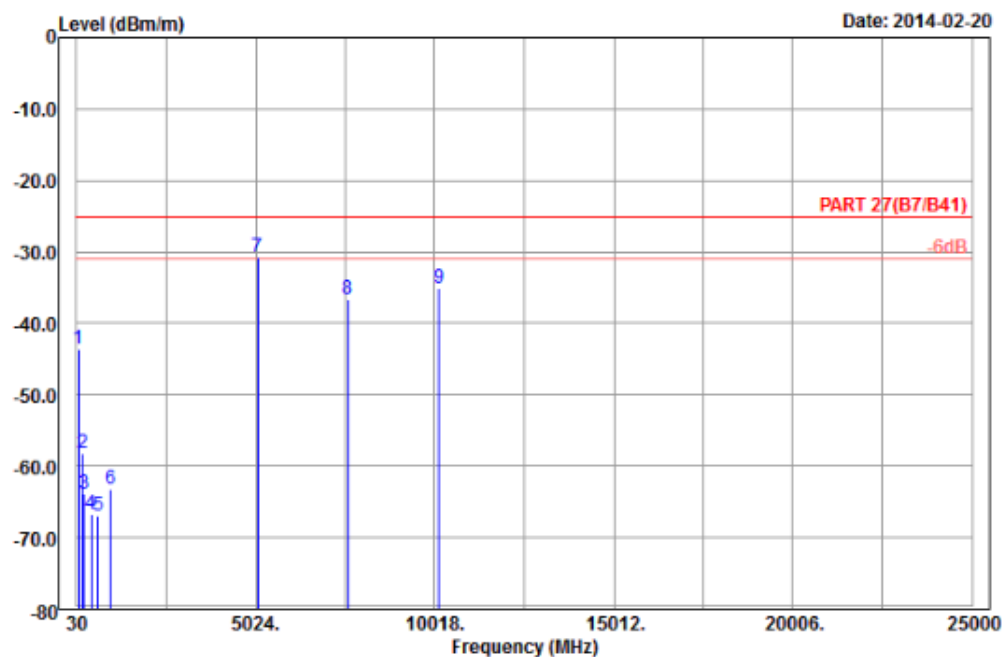
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	77.79	-47.18	-35.16	-25.00	-22.18	-12.02	Peak
2	191.73	-51.32	-45.50	-25.00	-26.32	-5.82	Peak
3	240.60	-56.81	-51.17	-25.00	-31.81	-5.64	Peak
4	308.40	-60.04	-54.18	-25.00	-35.04	-5.86	Peak
5	424.60	-64.64	-61.35	-25.00	-39.64	-3.29	Peak
6	965.00	-63.27	-68.43	-25.00	-38.27	5.16	Peak
7	5070.00	-41.72	-61.11	-25.00	-16.72	19.39	Peak
8 pp	7605.00	-39.49	-62.48	-25.00	-14.49	22.99	Peak
9	10140.00	-43.98	-70.40	-25.00	-18.98	26.42	Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 14



Site : 966 chamber 5
Condition : PART 27(B7/B41) 3m Vertical
Brand/Model: A91_2nd
Remark : LTE B7 5M_Link_CH21100 (phone+pad)
Tested by : Dylan Yang
Plane : X

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	78.06	-43.70	-31.77	-25.00	-18.70	-11.93	Peak
2	182.28	-58.26	-52.65	-25.00	-33.26	-5.61	Peak
3	240.33	-63.94	-58.30	-25.00	-38.94	-5.64	Peak
4	429.50	-66.77	-63.37	-25.00	-41.77	-3.40	Peak
5	622.70	-67.03	-67.20	-25.00	-42.03	0.17	Peak
6	965.00	-63.17	-68.33	-25.00	-38.17	5.16	Peak
7 pp	5070.00	-30.82	-50.21	-25.00	-5.82	19.39	Peak
8	7605.00	-36.53	-59.52	-25.00	-11.53	22.99	Peak
9	10140.00	-35.00	-61.42	-25.00	-10.00	26.42	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

Fax: 886-3-5935342

Hwa Ya EMC/RF/Safety/Telecom Lab:

Tel: 886-3-3183232

Fax: 886-3-3270892

Email: service.adt@tw.bureauveritas.com

Web Site: www.adt.com.tw

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

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---