

# **FCC RF TEST REPORT**

**APPLICANT** 

TCL Communication Ltd.

PRODUCT NAME

Car Wifi Hotspot

MODEL NAME

**Y856UB** 

TRADE NAME

ALCATEL ONETOUCH

**BRAND NAME** 

ALCATEL ONETOUCH

FCC ID

2ACCJB028

STANDARD(S)

47 CFR Part 22, Subpart H

47 CFR Part 24, Subpart E

47 CFR Part 27, Subpart C&M 47 CFR Part 90, Subpart S

ISSUE DATE

Certification

SHENZHEN MORLAB COMMUNICATIONS TECHNOLOGY Co., Ltd.

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Issue	Date		Reason for change						
1.0	2015-11-11	110	C .	, A.F	First edition	J. 416	Je. 4	, AE	
MC	in the	AR	ORLAN	MORE	S INC	AB	SRLAD	MORE	



## **TEST REPORT DECLARATION**

Applicant	TCL Communication Ltd.				
Applicant Address	5F, C-Tower, No.232, Liangjing Road, Zhangjiang High-tech Park Pudong, Shanghai, China				
Manufacturer	TCL Mobile Communication Co. Ltd. Huizhou				
Manufacturer Address	70 Huifeng 4rd., ZhongKai High-Technology Development District, Huizhou, Guangdong, PRC. 516006				
Product Name	Car Wifi Hotspot				
Model Name	Y856UB				
Brand Name	ALCATEL ONETOUCH				
HW Version	03				
SW Version	Y856_00_03.28_07				
Test Standards	47 CFR Part 22, Subpart H 47 CFR Part 24, Subpart E 47 CFR Part 27, Subpart C&M 47 CFR Part 90, Subpart S				
Test Date	2015-10-8 to 2015-10-30				
Test Result	PASS				

Tooted by		Zou ion1	
Tested by	400	Zou Jian(Test Engineer)	

Qiu Xiaojun Reviewed by

Qiu Xiaojun(RF Manager)

Approved by Zeng Dexin(Chief Engineer)



#### 1. GENERAL INFORMATION

#### 1.1 EUT Description

EUT Type ...... Car Wifi Hotspot

Serial No. ...... (n.a, marked #1 by test site)

Hardware Version....: 03

Applicant ...... TCL Communication Ltd.

5F, C-Tower, No.232, Liangjing Road, Zhangjiang High-tech Park,

Pudong, Shanghai, China

Manufacturer ...... TCL Mobile Communication Co. Ltd. Huizhou

70 Huifeng 4rd., ZhongKai High-Technology Development District,

Huizhou, Guangdong, PRC. 516006

Modulation Type...... FDD-LTE Band 25: QPSK, 16QAM

FDD-LTE Band 26: QPSK, 16QAM TDD-LTE Band 41: QPSK, 16QAM

Tx Frequency Range...... LTE Band 25: 1850.7MHz ~1914.3MHz

LTE Band 26: 824.7MHz ~848.3MHz (Part 22)

LTE Band 26: 814.7MHz ~823.3MHz (Part 90)

LTE Band 41: 2498.5MHz ~ 2687.5MHz

Rx Frequency Range ...... LTE Band 25: 1930.7MHz ~ 1994.3MHz

LTE Band 26: 869.7MHz ~ 893.3MHz (Part 22)

LTE Band 26: 859.7MHz ~ 868.3MHz (Part 90)

LTE Band 41: 2498.5MHz ~ 2687.5MHz

Emission Designator .....: 1M11G7D (LTE Band 25, QPSK, BW 1.4MHz)

1M10W7D (LTE Band 25, 16QAM, BW 1.4MHz)

2M72G7D (LTE Band 25, QPSK, BW 3MHz)

2M71 W7D (LTE Band 25, 16QAM, BW 3MHz)

4M51G7D (LTE Band 25, QPSK, BW 5MHz)

4M52 W7D (LTE Band 25, 16QAM, BW 5MHz)

9M00G7D (LTE Band 25, QPSK, BW 10MHz)

9M00W7D (LTE Band 25, 16QAM, BW 10MHz)

13M48G7D (LTE Band 25, QPSK, BW 15MHz)

13M49W7D (LTE Band 25, 16QAM, BW 15MHz)

17M93G7D (LTE Band 25, QPSK, BW 20MHz)

17M98W7D (LTE Band 25, 16QAM, BW 20MHz)

1M10G7D (LTE Band 26, QPSK, BW 1.4MHz) (Part 22)

1M10W7D (LTE Band 26, 16QAM, BW 1.4MHz) (Part 22)



2M72G7D (LTE Band 26, QPSK, BW 3MHz) (Part 22) 2M72W7D (LTE Band 26, 16QAM, BW 3MHz) (Part 22) 4M51G7D (LTE Band 26, QPSK, BW 5MHz) (Part 22) 4M50W7D (LTE Band 26, 16QAM, BW 5MHz) (Part 22) 9M02G7D (LTE Band 26, QPSK, BW 10MHz) (Part 22) 9M01W7D (LTE Band 26, 16QAM, BW 10MHz) (Part 22) 13M45G7D (LTE Band 26, QPSK, BW 15MHz) (Part 22) 13M46W7D (LTE Band 26, 16QAM, BW 15MHz) (Part 22) 1M11G7D (LTE Band 26, QPSK, BW 1.4MHz) (Part 90) 1M10W7D (LTE Band 26, 16QAM, BW 1.4MHz) (Part 90) 2M72G7D (LTE Band 26, QPSK, BW 3MHz) (Part 90) 2M71W7D (LTE Band 26, 16QAM, BW 3MHz) (Part 90) 4M50G7D (LTE Band 26, QPSK, BW 5MHz) (Part 90) 4M51W7D (LTE Band 26, 16QAM, BW 5MHz) (Part 90) 9M02G7D (LTE Band 26, QPSK, BW 10MHz) (Part 90) 9M01W7D (LTE Band 26, 16QAM, BW 10MHz) (Part 90) 4M51G7D (LTE Band 41, QPSK, BW 5MHz) 4M50W7D (LTE Band 41, 16QAM, BW 5MHz) 8M99G7D (LTE Band 41, QPSK, BW 10MHz) 8M98W7D (LTE Band 41, 16QAM, BW 10MHz) 13M44G7D (LTE Band 41, QPSK, BW 15MHz) 13M46W7D (LTE Band 41, 16QAM, BW 15MHz) 17M94G7D (LTE Band 41, QPSK, BW 20MHz) 17M91W7D (LTE Band 41, 16QAM, BW 20MHz)

Antenna Type ...... PIFA Antenna
Power Supply ...... 12V DC Power



#### 1.2 Test Standards and Results

The objective of the report is to perform testing according to 47 CFR Part 2 and Part 22, Part 24, Part 90, Part 27 for the EUT FCC ID Certification:

No.	Identity	Document Title
1	47 CFR Part 2	Frequency Allocations and Radio Treaty Matters;
AB	ORLAN MORE	General Rules and Regulations
2	47 CFR Part 22	Public Mobile Services
3	47 CFR Part 24	Personal Communications Services
4	47 CFR Part 90	Private Land Mobile Radio Services
5	47 CFR Part 27	Miscellaneous Wireless Communications Services

Test detailed items/section required by FCC rules and results are as below:

No.	Section	Description	Result			
1	2.1046	Transmitter Conducted Output Power	PASS			
2	2.1049, 22.917(b), 24.232(d), 27.50(d)(5), 90.209	Occupied Bandwidth	<u>PASS</u>			
3	2.1049, 22.917 24.238, 27.53(g), 90.213	Frequency Stability	PASS			
4	2.1055, 24.235	Peak to Average Radio	PASS			
5	2.1051, 22.917 24.238, 27.53(g), 90.691	Conducted Spurious Emissions				
6	2.1051, 22.917, 24.238, 27.53(g)(h), 27.53(m)(4)	238, 27.53(g)(h), Band Edge				
7	2.1051, 90.691	Emission Masks-In-band Emissions	PASS			
8	22.913, 24.232, 27.50(d)(4)	Equivalent Isotropic Radiated Power	PASS			
9	2.1053, 2.1057, 22.917, 24.238, 27.53(g), 90.691	Radiated Spurious Emissions	PASS			



#### 1.3 Facilities and Accreditations

#### 1.3.1 Facilities

Shenzhen Morlab Communications Technology Co., Ltd. Morlab Laboratory is a testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L3572.

All measurement facilities used to collect the measurement data are located at FL.1, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China 518101. The test site is constructed in conformance with the requirements of TIA/EIA 603.D: 2010, ANSI C63.4: 2009 and CISPR Publication 22: 2010. The FCC registration number is 695796.

#### 1.3.2 Test Environment Conditions

During the measurement, the environmental conditions were within the listed ranges:

Temperature (°C):	15 - 35
Relative Humidity (%):	30 - 60
Atmospheric Pressure (kPa):	86 - 106



## 2. 47 CFR PART 2, PART 22H & 24E & 90S & 27M REQUIREMENTS

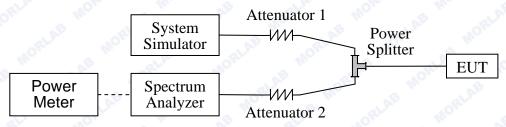
## 2.1 Transmitter Conducted Output Power

#### 2.1.1 Requirement

According to FCC section 2.1046(a), for transmitters other than single sideband, independent sideband and controlled carrier radiotelephone, power output shall be measured at the RF output terminals when the transmitter is adjusted in accordance with the tune-up procedure to give the values of current and voltage on the circuit elements specified in FCC section 2.1033(c)(8).

#### 2.1.2 Test Description

Test Setup:



The EUT, which is powered by the Battery, is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 500hm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.

#### **Equipments List:**

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
System Simulator	Rohde& Schwarz	CMW500	1201.0002k5	2015.02.26	2016.02.25
System Simulator	Nonded Schwarz	CIVIVV300	0/124534/wk	2013.02.20	2010.02.23
Spectrum Analyzer	Rohde& Schwarz	FSL	10246	2015.02.26	2016.02.25
Spectrum Analyzer	Agilent	E4445A	MY44200685	2015.02.26	2016.02.25
Power Meter	Agilent	E4418B	GB43318055	2015.02.26	2016.02.25
Power Meter	Agilent	E4418B	GB43318055	2015.02.26	2016.02.25
Power Sensor	Agilent	8482A	MY41091706	2015.02.26	2016.02.25
Power Splitter	Weinschel	1506A	NW521	2015.02.26	2016.02.25
Attenuator 1	Resnet	20dB	(n.a.)	2015.02.26	2016.02.25
Attenuator 2	Resnet	3dB	(n.a.)	2015.02.26	2016.02.25

#### 2.1.3 Test Results





Dond	Dond \\/: 441-	Channal	Freq.(MHz)	Madulatia	RB Cor	figuration	Average Power
Band	Band Width	Channel		Modulation	RB Size	RB Offset	(dBm)
O.P.I	NO TO THE	Q 101	, AB	RLAG	1000	0	21.03
	o.B	QLAP.	MORL	MC	<b>3</b> 1	49	23.16
	ORL	0,	, al	AE ORI	1 11	99	23.50
	AE.	ORLA	Moles	QPSK	50	0	22.12
	MORIL	Mo	CB.	QLAB.	50	25	22.31
	-B	NE ACC	RILL	O.	50	49	22.60
	NO FEE	- hu	4000	RLA	100	0	22.54
	o.B	al.Al	1860	HIL	<b>1</b>	0	20.10
	ORLA	26140	, n.	S ORI	1 1116	49	22.35
	AB	QRL.A	MOLE	M	. 1	99	22.94
	MORIL	Me	20	16-QAM	50	0	20.86
	B W.	B	RLA	0,	50	25	21.20
HORLAE NORL	MORL	PH <sub>0</sub>	AB	RLAD	50	49	21.16
	<b>3</b>	QLAB	ORL	Mo	100	0	21.49
	ORLE N	0	4000 5	QPSK	1 👫	0	23.59
		M			. 1	49	23.46
					0 1	99	23.46
					50	0.0	22.39
	NO PL			RLAR	50	25	22.52
	A			Mo	50	49	22.57
LTE	ORLAN			P ORL	100	0	22.62
	20MHz	26365	1882.5 26365	16-QAM	JP.	0	22.74
and 25					O <sup>R</sup> 1	49	22.79
	6 11	.0			1	99	22.53
	AL MORE	Ulle			50	0	21.52
	20	al Ab			50	25	21.38
	ORLA WORK	O.			50	49	21.77
	A.B	RLA			100	0	21.60
	*ORT	110,	.0	alas	1	0	23.02
	8 4	0	RLA	04	1,1,0	49	23.45
	MORL	Me	AB .	RLAL	1	99	21.37
	- C	2LAB	ORL	QPSK	50	0	22.43
	ORLA	O.	4.	G ORL	50	25	22.13
	AE AE	Lala	"IOET	ME	50	49	22.33
	AORL	III H	<b>3</b>	QLAP.	100	0	22.39
	B W	0	1905	0, 1	1	0	22.60
	MORL	26590	AB .	RLAN	1	49	22.52
	20	LAE WIRLAE WIT	"OBJ"	Mo.	<b>3</b> 1	99	20.96
	ORLA		16-	16-QAM	50	0	20.12
	NE NE	QLA		10 0/11/1	50	25	20.94
	JORL	MO.	40	J.A.B	50	49	21.06
	W.	0	al.A.	Die 4	100	0	21.41



Band	Band Width	Channel	Freq.(MHz)	Modulatia	RB Cor	figuration	Average Power
Бапи				Modulation	RB Size	RB Offset	(dBm)
ORI	" IIIO	O Mr.	AB	ORLAN	1011	0	21.20
	a.B	-QLAP	MORI	Mo	<b>9</b> 1	37	23.16
	ORLIN	0,	, n.	AD ORI	1 1116	74	23.40
	AB	QRL.A	Moles	QPSK	36	0	21.90
	MORIE	Mo	OB.	RLAE.	36	18	22.21
	-B	, C	RL	0.	36	35	22.51
	MORE	_ h_	4057.5	RLA	75	0	22.47
	o.B	al.Al	1857.5	Me	<b>ॐ</b> 1	0	20.33
	ORL	26115		AP JORI	1 1116	37	22.26
	AB	QRL.A.	Mole	PILL STATE	. 1	74	22.57
	MORI	Me	.0	16-QAM	36	0	21.11
	6	B	RLA	0	36	18	21.35
	MORL	MI	AB	RLAR	36	35	21.08
LAB MO.	OFLAS W	QLAB	4000 5	is more	75	0	21.60
		0			1 1	0	23.33
		M			110	37	23.59
				2LAB	0 1	74	23.22
				QPSK	36	0.0	22.50
					36	18	22.38
					36	35	22.52
LTE	ORLA				75	0	22.62
	15MHz	26365	1882.5 5	16-QAM	.1	0	22.76
and 25					OF 1	37	22.81
	e m				1. LA	74	22.74
	ORLAS MORL	Me			36	0	21.62
		CLAB			9 36	18	21.35
		OF			36	35	21.73
		al Al			75	0	21.61
	ORL	110,	.0	J.A.S	1	0	23.35
	2 111	.6	RLA	OL 4	1,1,00	37	23.65
	AT MORL	" We	of the	QLAP.	1	74	21.68
	70	2LAB	ORL	QPSK	36	0	22.41
	ORLA" N	Ole	the contract of the contract o	S ARL	36	18	22.10
	AB .	Cal.Al	MORL	Mo	36	35	22.44
	ORL	H	79	TLAP	75	0	22.32
	S M	8	1907.5	0**	1	0	22.80
	AT MORL	26615	,B	al Al	7	37	22.42
	~® ***	SLAB	ORL	MOL		74	20.94
	ORLA" of	RLA WORL	Mo	16-QAM	36	0	21.56
	lo.	al Al	MORL	10 30 111	36	18	21.33
	ORLA	More	- B W.	LAB	36	35	21.03
		O <sub>2</sub>	LAB	ORLA	30	- 55	22.36



.0	TAB .	40877	401	- O Un	N2	. O. I	WOL -
Band	Band Width	Channel	Freq.(MHz)	Modulation	A	figuration	Average Power
No.					RB Size	RB Offset	(dBm)
ORI	MOL	- B	LAB		1	0	21.49
SIM	AB	QRLA.	MORE		<b>9</b> 1	24	22.08
	ORL	100	الم		1 1116	49	22.56
.0	LAB	ORLA	MOL	QPSK	25	0	21.84
RLA	MOKE	S W	AB		25	12	21.66
	aB al	L and	Br. M		25	24	22.36
ORI	MOIN	- 6	1855	ORLING	50	0	22.10
Z M	AB	00000	1055		<b>1</b>	0	20.64
A. C.	ORL	26090	all all		1 1	24	21.52
.0	al AB	ORLA	Morra		. 1	49	21.86
RLA	MORE	Me	AB	16-QAM	25	0	20.93
O.	AB AV	NE AC	RL		25	12	20.51
ORI	MOL	S III	LAB		25	24	20.76
Mic	AB	RLAL	MORE	Mo	<u>&gt;</u> 50	0	21.20
	ORL		AE MORL	RLAE MORE	1 1	0	23.64
	A.B.	MORLA			110	24	23.39
RI.A.	E MORL SLIE				OR 1	49	23.44
O.		10	RI. N	QPSK	25	0	22.57
	MOL	S M	MORLAE		25	12	22.62
Mo	AB	M			<u>\$25</u>	24	22.59
LTE	ORL	141	4000 5		50	0	22.58
	10MHz	26365	26365 1882.5	16-QAM	. 1	0	22.90
and 25	MORL				0111	24	22.45
O.	- D	, C			1	49	22.78
ORI	NO PER N	- In			25	0	21.62
Mo	OB	al Alb			9 25	12	21.71
B	ORLA NO	O.			25	24	21.55
4	AB	RLA	MORE		50	0	21.51
QLA.	MORI	Me	68	ala	OFF 1	0	23.24
O.	18 m	.6	RLE		1,48	24	23.16
aRI	MORL	- We	, AB		1	49	21.91
Mo	68	al Ab	MORIL	QPSK	25	0	22.39
B	ORL	O.	4.		25	12	22.06
4	AB	Halin	MORE		25	24	22.36
QLA.	MORIL	110	4040		50	0	22.35
0,	B M.	.0	1910	O	1	0	22.43
aRI	MORL	26640	AB.		1	24	22.10
Mor	ORLAE IN WORLAE	QLAB	FILAE MORLE			49	20.78
B		0		16-QAM	25	0	21.32
4	A.B	QLAE	MORIE	Mo	25	12	21.09
2LAB	ORL	MO	-0		25	24	21.16
OL	In.	3	21.4		50	0	22.05



Dand	Doe d 147: -141-	Chaman	Eroc (NALL=)	Modulati	RB Cor	figuration	Average Power
Band	Band Width	Channel	Freq.(MHz)	Modulation	RB Size	RB Offset	(dBm)
QR1	NO INO	Q Min	, AB	ORLAN	1200	0	21.76
	a.B	al Al	MORL	MC	<b>3</b> 1	12	22.15
	ORL	0,	, al	AE ORI	1 11	24	22.03
	AB.	QRL.A	Moles	QPSK	12	0	21.79
	MORIL	Mo	AB T	ZLA!	12	6	21.86
	A CL	, C	RL	0,	12	11.0	21.95
	NO PE	- hu	4050.5	QRL.A.	25	0	21.83
	o.B	al.Al	1852.5	MILE	<b>1</b>	0	21.15
	ORL	26065	, n.	S ORI	1 1116	12	21.23
	AB	ORLA.	MOFF	A PILL	. 1	24	21.51
	MORIL	Me	,B	16-QAM	12	0	20.76
	A THE	, C	RIL	0,	12	6	20.64
	MORE	Z W	AB	ORLA.	12	11	20.49
	68	QLA!	MORL	Mo	25	0	20.91
	ORL	0	ل م	IP JORI	1 11	0	23.44
	AB	ORLA.	MOLE	M	. 1	12	23.36
	MORL	MO	,B	RLAE	OR 1	24	23.41
	B 111	, C	RLIN	QPSK	12	0.0	22.59
	Mokr	The state of the s	A.B	RLA	12	6	22.33
Mo	4	M	MORL	MO	<b>9</b> 12	∆ <sup>1</sup> 11 √	22.46
LTE	ORL	IVI	4000 5	E ORI	25	0	22.60
	5MHz	ORLA	1882.5	S. Mr.	1	0	22.33
and 25	MORL	26365	OB.	QLAD.	O <sup>R</sup> 1	12	22.11
	8 M	.0	RILL	0,	1	24	22.16
	W. Moles	4n	AB	16-QAM	12	0	21.59
	3	QLAB.	MORL	B MO. ORL	12	6	21.63
	ORLAN	O.			12	11.0	21.47
	AB	QLLA.	MOK	INC.	25	0	21.57
	NORL	Mo	.0	ala	O <sup>FE</sup> 1	0	22.69
	8 m	.0	RLIN	0,	1,1,0	12	22.32
	MOKE	Z Wes	, AB	QRLA.	1	24	21.87
	68	QLA!	MORIL	QPSK	12	0	22.43
	ORL	O.		. ORL	12	6	22.02
	A.B	Halin	MOKE	NI NI	12	11	22.21
	MORIL	M	4040.5	QLAR	25	0	22.38
	8 "	6	1912.5	0	1,4,0	0	22.10
	MORE	26665	, AB	QRLA.	1	12	21.22
	VE HIL	QLAE.	MORIL	Mo.	<b>9</b> 1	24	21.36
	ORLE	0,	16-QAM	12	0	21.06	
	AB	ORLA"	MORE	10-QAW	12	6	21.10
	MORL	Mo	<b>6</b> B		12	11	21.03
	0 7.	, P	21.	D. 4	25	0	21.54



. 03	T. AB	1 OFLA	MORE	N. All	3.50	OLL PL	MOF-
Band	Band Width	Channel	Freq.(MHz)	Modulation	RB Cor	figuration	Average Powe
Baria	Bana Widin	Charino	1 104.(111112)	Wiodalation	RB Size	RB Offset	(dBm)
OR)	MOL	9 41.	AB	ORLA	10	0	21.77
M	A.B	RLAL	MORLE	MIC	<b>1</b>	7	21.94
Alb	ORL	No.	3	al AE ORL	1 446	14	21.89
. 6	A.B	ORLA	Molt	QPSK	8	0	21.11
RLAL	MORL	MIC	AB .	RLAL	8	4	21.23
No.	NO 01	1 AC	1851.5	(O.	8	7	21.52
ORI	MOL	- 1111		RLA	15	0	21.91
Mo	AB	2227	1051.5	M	<b>№</b> 1	0	20.95
XID.	ORL	26055	, "	AF ORI	1 1116	7	21.20
0.1	AB	QRL.M	Mole	S W	. 1	14	21.17
QLA.	MORL	Mo	OB	16-QAM	8	0	20.89
0.	18 M	N.D	Rr. W	0,	8	4.0	20.96
AR!	MORE	A HILL	AB	ORLAN	8	7	21.10
Mo	oB.	RLAR	MORL	Mo	9 15	0	21.09
NO.	ORL	0.	, , , , ,	OPI	1 1116	0	23.62
_ ^ 1	AB	ORLA.	Mole	NI NI	. 1	7	23.30
al.Al	MORL	Mo	A	QLAB.	OR 1	14	23.44
O.	MORLAE IN MORL	LE C	ORLAN N	QPSK	8	0	22.41
a RI		M		AE ORLAN	8	4	22.06
MIC			ORL	MO	<u></u> 8	2L/A 7	22.13
LTE	ORLA	IVI	1000 5	E ORL	15	0	22.63
4	3MHz	MHz 26365	1882.5 - 26365	la l	, P	0	22.65
and 25	"OBJ			ZLAB	O <sup>R</sup> 1	7	22.76
OF	B W			O. S.	1	14	22.50
-RI	AL MORL	Me		16-QAM	8	0	21.43
Mo.	.0	aLAB.			8	4	21.26
\$	ORLA" N	OF	W.		8	7	21.82
4	a.B	ala	MORL	Mo	15	0	21.58
QLAB.	AORL.	luo,	.0	al AS	1	0	22.54
OF	2 111	6	RLA	OL. V	1,1,0,0	7	22.44
الم	AL	" WC	of the	RLAD	1	14	22.14
Mor	7. B	CLAB	ORLE	QPSK	8	0	21.62
9	ORLA" N	Offi	W.	S ARL	8	4	21.38
9	all .	, alak	MORL	Mo	8	7	21.42
LAB	ORL	H	* Q	LAB	15	0	22.37
Oly	N N	8	1913.5	0 × 4	1	0	21.44
a	AL MORL	26675	.0	2LAB	1	7	21.44
More	S W	LAB	ORLA	MOL		14	21.32
B	RLA	OFF	W. C	16-QAM			
J	0, 0	a.A.F	40RL	IO QAIVI	8	0 4	21.03 21.41
9	LAE NO ORLAE	MORIL	MO	MO AB			Z 1.41
LAB		Mole	S W	AB	8	7	21.00



NB	ala	1037	40,	VB	DD Con	figuration	Average Powe
Band	Band Width	Channel	Freq.(MHz)	Modulation	RB Size	RB Offset	(dBm)
, <u>, , , , , , , , , , , , , , , , , , </u>	, O(1)	THE STATE OF THE S	. 6	1,50	967	and a	
	Me	08	- RLAI		12	0	21.98
	2LAB	ORL	Mo.		<u> </u>	2	22.01
	VOIS &	, pr	RL		1 1	5	21.95
	RLAI	MORI	Mo	QPSK	3	0	21.98
	MO	3	LAB		3	1	21.56
	AB GRI	L off	14. V		3	2	21.95
	III.C.	.0	1850.7	MORI.	6	0	21.92
	LAB	26047	MOL		<u> </u>	0	21.10
	OFF	20047	PLL		1 1	2	21.22
	2LAB	ORL	MO.		1	5	21.16
	MOL	S In	AB	16-QAM	3	0	21.20
	al al	-40	Kr. 4		3	1.08	21.13
	MOL	*@ W.	CLAB		3	2	21.11
	AB	RLA	MOR	W.	9 6	0	21.06
	ORL	.5	الله	A NORT	1 1116	0	23.74
	LAB	ORLA	MOL		. 1	2	23.35
	MORE	Mich	NB		OR 1	5	23.35
	S 01	N. C	RL. N	QPSK	3	0	23.47
	MOL	Shi	AB		3	1	23.34
MC	NOTE OF THE	M MHz 26365	MORI		<u> </u>	2	23.41
LTE	ORL		4000 5		6	0	22.64
	1.4MHz		1882.5 -	di.	, IP	0	22.40
and 25	MORL				O <sup>R</sup> 1	2	22.35
	6 1				1	5	22.36
	MOEL	lu du		16-QAM	3	0	21.86
	A	al AB			§ 3	2	21.91
	ORLAN	OF	4.		3	5	21.46
	A.B	-RLA	MORI		6	0	21.61
	*ORT	1110,	.0	alas	1	0	22.42
	S W.	.6	RLA		1,1,0,0	2	22.47
	AL MORIL	" WC	68		1	5	22.30
	-B	CLAB	ORL	QPSK	3	0	22.43
	ORLA.	Oh	4V		3	1	22.52
	NE NE	, alak	"ORL		3	2	22.32
	ORLA	H	0 6		6	0	22.38
	HILL	3	1914.3	0,000	1	0	22.36
	AT LORL	26683	.0		117		
	O W	AB	ORLA			5	21.31
	RLAN	ORIV	HI.	16-QAM	2 1		21.26
	10.	LAF	40RL	10-QAW	3	0	21.06
	ORLA	MOKE	A MILE		3	1	21.43
	Mo	3	2LAB		3	2	21.58
~	S 2	1 40	- 41	_6	6	0	21.59



Della	Dec 1 Maria	Oh - :	Frac (MUL)	NA alvela C	RB Cor	figuration	Average Powe
Band	Band Width	Channel	Freq.(MHz)	Modulation	RB Size	RB Offset	(dBm)
QR1	MOTO	2 44	AB	RLAD	w1010	0	23.25
	a.B	al Al	MORL		<b>3</b> 1	37	22.71
	ORL	0.	, al		1 1116	74	22.72
	, AB	QRL.A	Moles	QPSK	36	0	21.94
	MORIL	Mo	OB.		36	18	21.56
	-B1	NB AC	RILL		36	35	21.82
	W. Wolfe	F 611.	004.5		75	0	22.05
	oB.	26865	831.5	M	<b>9</b> 1	0	22.37
	ORL	o.	, n.		1 1116	37	22.06
	AB.	QRL.A.	MORE		. 1	74	22.11
	MORIL	Mo	.0	16-QAM	36	0	21.53
	- B	E C	RILL		36	18	21.46
	MORE	MILE	AB		36	35	21.32
	60	RLAR	MORIL		75	0	21.00
	ORL	0	,	N ORI	1 111	0	22.75
	AB	ORLA.	MOLE		. 1	37	22.68
	NORL	MO	B		O <sup>R</sup> 1	74	22.67
	8 1	, C	RLA	QPSK	36	0.0	21.91
	WOLE.	III.	AB		36	18	21.53
Mo	.0	al.Ab	ORL		36	35	21.81
LTE	ORLE	15MHz 26915	000 5		75	0	21.97
	15MHz		26915	400	. 1	0	22.43
and 26	MORI			, AB		O <sup>R</sup> 1	37
	8 11	, S		16-QAM	1	74	22.04
	AL MORE	4n			36	0	21.26
		al Alb			9 36	18	21.33
	ORLA	O.			36	35	21.14
	AB	RLA	MORE		75	0	20.86
	MORI	Me	68	allA	O <sup>FE</sup> 1	0	23.12
	8 W	10	RIL		1,48	37	23.03
	MOKE	Z W	, AB		1	74	22.99
	OB.	QLAD	MORIL	QPSK	36	0	22.11
	ORL	0.	4.		36	18	22.09
	AB	Halin	MOKE		36	35	22.10
	MORI	W.	044.5		75	0	22.21
	B	0	841.5	, O	1, 1	0	21.82
	AE MORL	26965	, AB		1	37	21.65
		RLAD	MORT		3 1	74	21.60
	ORL	D. 6	16-QAM	36	0	21.06	
	AB	SRLA	MORE		36	18	21.13
	MORIL	Mo	o.B	a m. alae of	36	35	21.09
	a T	0	21.		75	0.0	21.16



Dond	Dond \\/: 441-	Channal	Frog /MI I=\	Modulatia	RB Cor	figuration	Average Power
Band	Band Width	Channel	Freq.(MHz)	Modulation	RB Size	RB Offset	(dBm)
QR1	NO INO	S W	AB	ORLAN	10,000	0	23.27
	o.B	QLAP.	MORL	Mo	<b>9</b> 1	24	23.56
	ORL	0,	, n.	AD ORI	1 1116	49	23.29
	AE.	ORLA	Moles	QPSK	25	0	22.15
	MORIL	Mo	OB.	ZLAB	25	12	22.49
	-B	, C	RL	0.	25	24	22.21
	MOKE	F 611.	000	QRL.A.	50	0	22.28
	O.B	26840	829	Me	<b>1</b>	0	22.37
	ORL	0.		AP JORI	1 1116	24	22.59
	A. A.B	QRL.A	Mole	PILL STATE	. 1	49	22.48
	MORIL	Mo	NB Y	16-QAM	25	0	21.41
		E .C	RLA	0,	25	12	21.28
	MORE	411	AB	ORLAN	25	24	21.52
	68	QLA!	MORL	Mo	50	0	21.31
	ORL	0	ل م	IP JORY	1 1111	0	22.72
	AB	ORLA.	MOKE	M	. 1	24	22.86
	MORIE	MIC	60	QLAD	O <sup>R</sup> 1	49	23.00
	B 11.	, B	RILL	QPSK	25	0.0	22.06
	MOKE	- Pile	A.B	ORLAND	25	12	22.15
Mo	60	QLAR	MORL	Mo	9 25	24	22.18
LTE	ORL	М	000 5	E ORL	50	0	22.26
	10MHz	10MHz 26915	26915	630.3	. 1	0	22.53
and 26	MORI				O <sup>R</sup> 1	24	22.41
	18 AU	, C		0,	1.4	49	22.59
	MOKE	Z III		16-QAM	25	0	21.13
	60	QLAD.			9 25	12	21.33
	ORLE	0,			25	24	21.09
	AB	QRL.A.	MOKE	2 HIL	50	0	21.23
	MORI	lu <sub>c</sub>	0.B	RLAR	O <sup>FE</sup> 1	0	21.29
	الم على	10	RIL	D. 70	1,10	24	22.53
	MOKE	o We	AB	QRLA.	<b>1</b>	49	22.88
	00	QLAD	MORIL	QPSK	25	0	22.12
	ORL. N	0,	The state of	ORL	25	12	22.20
	AB	Н	MOLE	S MIL	25	24	22.03
	MORL	W.	0.4.4	-al-Al-	50	0	22.13
	B all	00000	844	20,	1,100	0	21.85
	AL ALE MORL	26990	AB	ORLA	11	24	21.78
	0.6	RLAR	MORE	" Mo	3 1	49	21.67
	ORL	D. ~	16-QAM	25	0.	21.03	
	AE	ORLA	Mole	S W	25	12	21.18
	MORE	Mo	NB .	RLAN	25	24	21.12
	0 4	0	ST. M	D	50	0.	21.06



7.0	- CAR	1087	40,	VQ Un.	85.0	r. 40;	*#O*
Band	Band Width	Channel	Freq.(MHz)	Modulation		figuration	Average Powe
No	S 0	A.C.	RIV	.0	RB Size	RB Offset	(dBm)
,ORI	WO.	-8	ALAE .		12	0	23.19
S U	AB	ORLA.	MOLE		1	12	23.42
	ORL	, S	المال	QPSK	1 👭	24	23.32
.0	LAB	ORLE	MOL		12	0	22.52
RLA	Mole	S MIL	AB		12	6	22.66
	AB GI	L and	826.5		12	11	22.18
, ORI	MOL	-6		ORLAN	25	0	22.29
S M	AB	26815	020.5		<b>1</b>	0	22.53
ALV	ORL	20815	الله		1 1116	12	22.43
.0	LAB	ORLA	MOIN		. 1	24	22.27
RLA	Mokra	I WILL	AB	16-QAM	12	0	21.56
	all at		Rr. W		12	6	21.77
ORI	MOL	'e bu	LAB		12	11	21.33
T W	AB	RLA	MOR	M	<u>25</u>	0	21.11
A. C.	ORL		211	AORI	1 1	0_0	23.11
. 6	a. A.B	ORLA	Morr		1	12	23.06
RLA	MORE	Me	NB		0 1	24	23.13
O.	MORE AR MORE	N. C	MCRL. TLAE W	QPSK	12	0	22.34
ORI		M 5MHz 26915		ORLA	12	6	22.18
175			MORE		<u>\$ 12</u>	11	22.44
LTE	ORL		836.5		25	0	22.19
	5MHz		-61-	S W.	. 1	0	22.42
and 26	MORL				O <sup>R</sup> 1	12	22.60
o.	18 N			16-QAM	1. A.A.	24	22.13
ORI	MOL	S W			12	0	21.38
M	o.B	alai			<u> </u>	6	21.44
No.	ORL	o.			12	11.0	21.25
4	AB	QRLA.	MORE		25	0	21.34
RLAN	MORI	Me	OB.	QLAR	O <sup>RC</sup> 1	0	22.95
0,	10 m	10	RIL		1,40	12	22.88
AR!	MOKE	S W	, AB		1	24	22.97
Me	O.B	QLAD	MORIL	QPSK	9 12	0	22.03
No.	ORL	O.	4.		12	6	22.11
4	A.B	Halin	MOKE		12	11	22.06
QLA.	MORIL	W.	0.40.5		25	0	22.02
O.	(B M.	.0	846.5	. 6	1.4	0	22.54
ARIV.	MORL	27015	AB		1	12	22.52
Mo	<b>S</b>	QLAB	MORL			24	22.15
B	OPLA	O.	40.	16-QAM	12	0	21.42
4	AE	RLAN	MORI	10-QAIVI	12	6	21.29
2LAB	ORL	Mo.	A		12	11	21.33
OL	U.	3	21.14		25	0	21.06



DelaB	D-A-IME III	01/10	F	Market 1	RB Con	figuration	Average Powe
Band	Band Width	Channel	Freq.(MHz)	Modulation	RB Size	RB Offset	(dBm)
QR1	NOT	7 10	AB	RLAD	w1P12	0	23.35
	CB T	QLAB.	NORL		<b>9</b> 1	7	23.44
	ORLA	O		N.B. ORL	1 1	14	23.37
	AE AE	RLA	MORY	QPSK	8	0	22.16
	ORL	Mo	.0		8	4	22.52
	e h.	, S	RIL		8	7.08	22.28
	A. MORE	_ nn	08	RLAN	15	0	22.32
	4	al.Ab	825.5	Mo	<b>1</b>	0	22.63
	ORLA	26805	, n.		1 1116	7.0	22.53
	AB	QLA.	MORE		. 1	14	22.18
	ORL	MO.	29	16-QAM	8	0	21.25
	G M	LB .C	RIFE		8	4	21.08
	MORI	MILE	AB		8	7	21.33
	.0	QLAB	"OBT"		15	0	21.12
	ORLE	0	,	NO OF	1 1	0	23.26
	A.B	RLA	MORE		. 1	7	23.11
	ORL	MO.	.0		OF 1	14	23.03
	NORLE IN MORLE	.6	RLL	QPSK	8	0	22.16
		M	AB		8	4	22.34
		М	ORL		9 8	7	22.19
LTE	ORLIN				15	0	22.24
	3MHz	26915	26915	Me	.1	0	22.76
and 26	"OBT"				O <sup>RC</sup> 1	7	22.34
	6 1	.0		16-QAM	1	14	22.08
	AL MORE	W			8	0	21.16
		alab			9 8	4	21.43
	ORLA	Or			8	7.0	21.38
	AB	RLA	MORI		15	0	21.25
	MORL	Wo.	A	alar	1	0	22.90
	B 10.	.0	Arr. M		1,1,0,0	7.0	23.06
	MORL	Me	AB		w1P**	14	22.96
		QLA!	NORL	QPSK	8	0	22.10
	ORLA	O.	4.		8	4	21.96
	AB	<b>L</b> RLA!	MORR		8	7	22.21
	MORIL	H	0.47.5		15	0	22.02
	6 m	.0	847.5	. 6	1	0.0	21.69
	MORL SELAR MORL	27025	A.B		1	7	21.88
		ZLAE	MORL		§ 1	14	21.66
		D.	40.	16-QAM	8	0	21.12
	AB	ORLA!	MORE	10-QAW	8	4	21.25
	MORL	Mo.	00		8	7	21.36
	Jan.	0	21.1		15	0	21.03



Della	Dec 1 Maria	Ohara	Frac (MUL)	NA alvela C	RB Cor	figuration	Average Power
Band	Band Width	Channel	Freq.(MHz)	Modulation	RB Size	RB Offset	(dBm)
OR!	Moto	9 44,	, AB	ORLAND	1000	0	23.28
	a.B	al Al	MORL		<b>3</b> 1	2	23.15
	ORL	0.	, al	QPSK	1 1116	5	23.23
	AB AB	QRL.A	MORE		3	0	23.20
	MORIL	Mo	OB.		3	1	23.05
	-B1	NB L	RL		3	2	22.86
	W. Wolf.	- hu	004.7		6	0	22.32
	AB.	al.Al	824.7	Mo	<b>№</b> 1	0	22.54
	ORL	26797			1 1116	2	22.42
	AB	ORLA.	Mole		. 10	5	22.33
	MORLE	MIC	<b>S</b> B	16-QAM	3	0	21.71
	A AL	150	RL		3	1,08	21.86
	MORE	S W	AB		3	2	21.52
	AB.	RLAN	MORE	MIC	9 6	0	21.45
	ORL		, , , , ,	, ORI	1 1116	0	23.27
	AB	ORLA	Mole		. 1	2	23.42
	MORLE	MIC	oB.		0 1	5	23.62
	HORL AB HORL	100	MCRL TLAE W	QPSK	3	0	23.25
		S W			3	1	23.41
ATE.		M	MORE		ý 3	2	23.26
LTE	ORL	J	836.5	io Ri	6	0	22.29
	1.4MHz	1.4MHz 26915	-0.1	B	J.P	0	22.53
Band 26	MORE			16-QAM	OF 1	2	22.44
	B 21	100 AC			1,10	5	22.61
	MOL	O W			3	0	22.06
	AB	RLAN			3	2	22.42
	ORL	10°			3	5	22.13
	LAB	ORLAN	110	G Pil	6	0	21.24
	MOR	July 1	AB	PLA	O <sup>R</sup> 1	0	22.89
	B 2		RI. M		1,10	2	22.91
	More	G M	LAB		1	5	22.99
	AB	RLA	MORE	QPSK	<b>9</b> 3	0	22.95
	ORL	S. S.	al.P		3	1.6	22.88
	LAB	Halin	More		3	2	23.01
	Mole	a the	848.3	PLA.	6	0	22.10
	SE OL	27022	0-0.0		1,1A	0	21.62
	ORLAND MORL	27033	ALAB		7	2	21.70
		BLA	MOKE		1	5	21.54
		N. C.	al.A	16-QAM	3	0	21.52
	LAB	ORLA	MOL		3	<b>1</b>	21.69
	MOKE	S W	AB		3	2	21.24
	e al	40	5. 14		6	0	21.10



AB	ORLA	MOR	A 10.	, AB	RB Cor	figuration	Average Power		
Band	Band Width	Channel	Freq.(MHz)	Modulation	RB Size	RB Offset	(dBm)		
-el	A MORL	100	O.B	QLA P	1000	0	N/A		
Mo.		OLAE .	ORLIN	MOL		24	N/A		
AB		OF	M	LE ORL	1 111	49	N/A		
1		QLA.	MORI	QPSK	25	0	N/A		
CLAB		Morra	-0 m	LABOR	25	12	N/A		
NOF		B	RLA	Ott	25	24	N/A		
رم		Me	, B	ZLAE	50	0	N/A		
MO		N/A	N/A	Mol	1	0	N/A		
AB		Ok	III.	E ORI	1 1110	24	N/A		
1		al.A	MORI	MO	10	49	N/A		
OLAB		MOL	- Q	16-QAM	25	0	N/A		
NOF		B	RI.A.	O 30 1111	25	12	N/A		
الم		Me	TLAE MC .ORLAE .	QLA!	25	24	N/A		
Morr		LAB		More	50	0	N/A		
AB		E HORLAS	411	19 AP	1	0	23.18		
			MORLAN B MORL	MO	10	24	23.06		
J.AB				QPSK	08-1	49	23.26		
NO FEE			QLA.		25	0	22.45		
الم			SLAE MINISTRAE		25	12	22.34		
MO		CLAB		MOL	25	24	22.52		
LTE		M	W. I	S OPI	50	0	22.48		
1	10MHz	al.Al	819	NIO.	1	0	22.64		
Band 26	26740	26740	26740	26740	· B ///	LAB	1	24	22.53
NO FEE		B	QLA. N	Oke 1	1.00	49	22.74		
الم		Mc	AB 1	16-QAM	25	0	21.64		
MOI		LAB	ORLAN		25	12	21.58		
AB .		ORL	UIL C		25	24	21.49		
		QLA!	, ORL	MO	50	0	21.43		
LAB		1110	. 6	T.A.B	1	0	N/A		
NORT		.0	ela.	Oke 1	1,1,00	24	N/A		
al		W <sub>C</sub>	NB N	QLAB	1	49	N/A		
Mor		SLAB	ORLA	QPSK	25	0	N/A		
A.B		OR	1110	gi oit	25	12	N/A		
•		aLAF	MORL	Mo	25	24	N/A		
LAB		More	- B W.	LAB	50	0	N/A		
VOL	N/A	N/A	N/A	D. A.	1	0	N/A		
الم		HAE MORLE MO	,B	QLAB.	1	24	N/A		
More			ORLA	MOL	<b>9</b> 1	49	N/A		
AB			Me	16-QAM	25	0	N/A N/A		
1		2LAF	"OBI"	TO SCATIVI	_	12	N/A N/A		
AB		MOLO	S In	AB	25 25	24	N/A N/A		
			OB W	3RLA	I ZO	ı 24	IN/A		



Devel	D===1.147_101	Ok = :	France (AULL)	NA alvela C	RB Cor	figuration	Average Powe
Band	Band Width	Channel	Freq.(MHz)	Modulation	RB Size	RB Offset	(dBm)
AR!	NOU.	2 40	AB	RLAD	w1010	0	23.42
Mo	<b>S</b>	al Al	MORL		<b>3</b> 1	12	23.58
A.E.	ORLIN	O.	, n.		1 1116	24	23.35
- 4	AB.	RLA	MOLE	QPSK	12	0	22.28
QLA.	ORL	Me	20		12	6	22.21
O	- B M	, B	RLA		12	11.00	22.29
OR!	W. Wolfer	_ nn	2126		25	0	22.30
MO	3	al.Ab	816.5	Mo	Ø 1	0	22.97
B	ORLIN	26715			1 1116	12	22.85
1	AE AE	-RLA	MORL		. 1	24	23.13
QLAB	ORL	MO.	.6	16-QAM	12	0	21.86
OF	B W	B	RLA	Or a	12	6	21.92
-81	AL MORE	Me	OB.		12	11	21.76
Mor	-B	2LAB	ORL		25	0	21.18
B	ORLA	000	411	E ORI	1	0	23.30
1	A.E	RLA	MORL		110	12	23.19
LAB	ORL	Mor	70		1	24	23.24
OF	S W	B	RI.M.	QPSK	12	0	22.43
-01	AL MORL	Me	oB.	RLAR	12	6	22.63
MO.	-0	aLAB	ORL		12	11	22.48
LTE	ORLA" N	M	the state of the		25	0	22.42
1	5MHz	819	. 6	1	0	21.89	
and 26	ORLE	26740	26740	16-QAM	1	12	21.96
Ole	NI NI				1.00	24	21.74
2	AP	Mo			12	0	21.85
MOL	B W	LAB			12	6	21.76
9	RLA	OR			12	11	21.70
1	VO. 12	2LAF			25	0	
AB	ORLAND	4101-	0	I AG	- Co.		21.41
OR	MIL	8	ala.		1 0	0	23.52
	AP JORL	110	.6		1	12	23.26
Mole	O W	A.A.B	ORLA	QPSK		24	23.43
3	-RLAL	ORL	W. C	QF SIN	12	0	22.40
	Vo.	-LAF	ORL		12	6	22.26
AB	ORLA	H	S W		12	11	22.67
ORL	Mo	0	821.5	ORY N	25	0	22.42
	AP TORL	26765	- B		1	0	23.05
Moles	MOET MO.	AB	ORLAN			12	22.81
B	RLAN	ORL	MIC	16-QAM	1 10	24	22.93
4	lo.	T.AE	ORLA	10-QAW	12	0	22.58
AB	ORLA.	MORE	M	A.D. W.	12	6	21.48
4	ELAB MORLE		O.P.		12	11	21.63



DelaB	D-4-1347 III	01/10	F	Market 1	RB Con	figuration	Average Powe
Band	Band Width	Channel	Freq.(MHz)	Modulation	RB Size	RB Offset	(dBm)
AR!	MOR	7 10	AB	RLAD	1P	0	23.19
	4	QLAB.	NORL	MO	<b>9</b> 1	7	23.34
	ORLA	O		LAS ORL	1 1	14	23.21
	AB AB	RLA	MORY	QPSK	8	0	22.44
	ORL	Mo	.0	JLAB .	8	4	22.19
	B 11.	, S	RLA	OF S	8	7.08	22.20
	A. MORE	_ nn	- L- QB	RLA	15	0	22.34
	3	al.Ab	815.5	Mo	<b>1</b>	0	22.46
	ORLAN	26705	, n.	E ORI	1 1116	7.0	22.71
	AB	QRLA.	MORE	MIC	. 1	14	22.60
	ORL	MO.	A	16-QAM	8	0	21.82
	B 100	E .C	RIFE	0,	8	4	21.43
	MORI	MILE	AB	RLAN	8	7	21.62
	, O	QLAB	MORIL	Mo	15	0	21.27
	ORL	0	, 41	IN ORI	1 11	0	23.34
	AB	ORLA.	MORE	MILE	.1	7	23.27
	NORL	MO	B	QLAB.	OF 1	14	23.51
	MORIAE IN MORLI	E C	MC NORLES	QPSK	8	0.0	22.34
		MOLE W.			8	4	22.60
Mo		M		MO	9 8	7	22.28
LTE	ORLA	IVI	040	E ORL	15	0	22.45
	3MHz	26740	26740 819 -	400	. 1	0	22.60
and 26	MORL			16-QAM	O <sup>R</sup> 1	7	22.41
	S	, S			1.4	14	22.28
	W. Mokr	4110			8	0	21.53
	68	al Alb			<b>9</b> 8	4	21.67
	ORLE	O.			8	7.0	21.50
	AB	QRLA.	MORE	S W	15	0	21.43
	MORI	Me	aB .	QLA	O <sup>FE</sup> 1	0	23.34
	10 m	10	RIL	0,	1,40	7.0PL	23.42
	MOKE	S W	, AB	ORLA	1	14	23.17
	AB .	QLAD	MORIL	QPSK	9 8	0	22.49
	ORL	0,	W. STO	D JORL	8	4	22.56
	AB	Halin	MORE	S W	8	7	22.63
	MORI	W.	000.5	RLAD	15	0	22.47
	MORLE ME MORLE	0	822.5	, O	1. A.	0.00	22.66
		26775	AB	ORLA	<b>1</b>	7	22.32
		QLA.	MORI	MIC	<b>9</b> 1	14	22.42
	ORL. N	D	T.A	16-QAM	8	0	21.52
	AB	ORLAN	MOLE	10-QAIVI	8	4	21.37
	MORI	Mo	o.B	QLAP.	8	7	21.67
	4	0	21.	D. 2	15	0.00	21.50



Donal	Dond \\/: 441-	Charrel	Frog (MILE)	Modulatia	RB Cor	figuration	Average Power
Band	Band Width	Channel	Freq.(MHz)	Modulation	RB Size	RB Offset	(dBm)
ORI	" IIIO	O Mr.	LAB	ORLAN	1011	0	23.09
	all l	al.Al	MORI	Mo	<b>3</b> 1	2	23.15
	ORLIN	0.	, al	AD ORI	1 1116	5	23.05
	AB	RLA	Mokr	QPSK	3	0	23.17
	MORIE	Mo	of the state of th	RLAE.	3	1	23.06
	-B	, S	RILL	0.	3	2	23.32
	MORE	_ ///	0447	RLA	6	0	22.36
	o.B	- QLAL	814.7	Me	<b>5</b> 1	0	22.54
	ORL	26697	, n.	AP JORI	1 1116	2	22.56
	AB	QRL.A.	Mole	PILL STATE	. 1	5	22.51
	MORIN	MO	.0	16-QAM	3	0	21.75
	0	B	RILL	0	3	1.02	21.86
	MORL	MI	AB	RLAR	3	2	21.53
	A	QLAB	ORL	Mo.	6	0	21.24
	ORLA	0	40	IP OR	1 1115	0	23.31
	A.B	RLA	MORIE	Mo	1	2	23.47
	, ORL	Wo.	AB W	2LAB	0 1	5	23.16
	8 111	S C	RLL	QPSK	3	0.0	23.28
	AL MORL	Me	AB	RLAI	3	1	23.20
	-0	al Alb	10RL	Wo.	3	2	23.16
LTE	ORLA	M	W	S ORL	6	0	22.31
	1.4MHz	RLA	819	Nico I	.1	0	22.60
and 26	ORL	26740	A	2LAB	01	2	22.37
	e m	3	RILL	OL 3	1	5	22.52
	AL MORL	Me	OB.	16-QAM	3	0	21.56
	-6	aLAB	MORLIN	S ARL	3	2	21.85
	ORLA" N	OF			3	5	21.49
	AL AL	ala	MORL	Mo	6	0	21.21
	ORL	410,	.0	J.A.S	1	0	23.12
	2 111	B	ALM M	OL 4	1,1,00	2	23.24
	AT MORL	Mc	oB.	QLAP.	1	5	23.19
	70	ZLAB	ORL	QPSK	3	0	23.21
	ORLA" N	Ole	the contract of the contract o	S ARL	3	1	23.11
	AB .	-QLA	MORL	Mo	3	2	23.06
	ORL	H	-B	TLAP	6	0	22.31
	S M	6	823.3	0**	1	0	21.95
	AT MORL	26783	,B	al Al	1	2	22.13
	~@ W	J.AB	ORLE	MOL	Ø 1	5	22.13
	ORLA" of	Ole.	W.	16-QAM	3	0	21.46
	N. C. C.	al Al	MORL	16-QAM _	3	1	21.46
	RL	MOL	9 4		3	2	21.67
	45.7						



. 0		OPLA	#Ola.	Ø W	130	OFLA	Mole
Band	Band Width	Channel	Freq.(MHz)	Modulation		figuration	Average Powe
Barra	20,10 THOM:			O	RB Size	RB Offset	(dBm)
ORI	More	9 41.	LAB	ORLA	10	0	22.05
	AB	-RLA	MORE	MIC	<b>1</b>	49	22.82
	ORL	No.	3	AL TOPI	1 1116	99	22.84
	a. AB	ORLA	More	QPSK	50	0	21.69
	MOKE	MIC	N.B	RLAN	50	25	21.53
	A 21	All Lac	Pl. W	NO. ORLAR	50	49	21.80
	MOL	- 6	2506		100	0	21.72
	AB	00750	2500	IMP	<b>5</b> 1	0	21.66
	ORL	39750	31.	ORI	1 1110	49	21.92
	ORLAS ORLAS		More	B		99	21.48
	MORE	M	AB	16-QAM	50	0	20.75
	B AL	700	RI. W	(b)	50	25	20.69
	MOL	G M	LAB	ORLA	50	49	20.51
	AB	RLAB	MORE	Me	<u></u> 100	0	20.63
	MORL B NO		الله الله	AORI	1 1	0	22.84
	RLAB MORLAB	ORLA	MOET	A MIC	1	49	22.45
		MO.	D.B	CLAR	OR 1	99	22.29
OF THE SELVE	B	RLA	QPSK	50	0	21.45	
	ORLAD MORL	S W	AB	AE HORLAS	50	25	21.34
AT-	AB	М	2593 -		<u>&gt;</u> 50	49	21.53
LTE	ORL			io Ri	100	0	21.46
	20MHz			B	J.P	0	21.26
Band 41	MORE	40620		16-QAM	O <sup>R</sup> 1	49	21.40
	S (1)	N. C			1,1,0	99	21.33
	Mole	O W			50	0	20.58
	NB NB	RLAI	MORL	ME	<u>&gt;</u> 50	25	20.42
	ORL	10.	are.	S JORL	50	49	20.64
	AB	ORLA	Moles	O M	100	0	20.33
	MORT	We	O.B	RLA	O <sup>R</sup> 1	0	22.19
	S 20	10	RI. M	D	1,10	49	21.93
	Molecul	S W	AB	ORLA	<b>11</b>	99	22.30
	0.0	RLAN	MORI	QPSK	9 50	0	20.85
	ORL	10.	arb.	D ORL	50	25	20.66
	AB	Н	MOIN	S W	50	49	20.76
	MORE	Me	2600	RLAL	100	0	20.75
	SP AU	44.550	2680	. A	1, A	0.00	20.52
	MOKE	41490	AB	ORLA	<b>1</b>	49	20.83
	A.B	QLA!	MORL	Ille	<b>9</b> 1	99	20.71
	ORL	DRIV	T.A	16-QAM	50	0	19.81
	AB	ORLAN	MOL		50	25	20.16
	MORE	MIC	oB.	QLAP	50	49	19.92
	0	P	21.5	D	100	0.00	19.77



Doed	Dond \\/: 441-	Channal	C (A 41 1)	Modulatia	RB Cor	figuration	Average Powe
Band	Band Width	Channel	Freq.(MHz)	Modulation	RB Size	RB Offset	(dBm)
OR!	NO INO	S W	, AB	QRL.A.	1200	0	22.62
	o.B	QLAP.	MORL	MC	<b>3</b> 1	37	22.52
	ORL	0,	, al	E ORI	1 11	74	22.61
	AE.	ORLA	Moles	QPSK	36	0	21.65
	MORIL	Mo	AB T	QLAD.	36	18	21.72
	A ST		ORL	0,	36	35	21.67
	NO PE	- bu.	0500.5	MORLAL	75	0	21.70
	O.B	al.Al	2503.5		<b>5</b> 1	0	21.53
	ORL	39725	, n.	E ORI	1 1116	37	21.43
	AB	QRL.A	MOFF	NI INC.	. 1	74	21.60
	MORIL	E MC	60	16-QAM	36	0	20.71
	- B		RIL	O.	36	18	20.52
	MORE		AB	ORLA.	36	35	20.39
	68		MORL	MO.	9 75	0	20.51
	FELLE MORLAGE NO	0	ILAS MORL	IP JORI	1 11	0	22.51
		ORLA.		IOEL MO.	. 1	37	22.37
		MOL	o.B	ZLAP.	OR 1	74	22.40
OR AR IN MORL	E NC	RLA	QPSK	36	0.00	21.47	
		A.B		36	18	21.38	
Mo	60	М	2593	NI NI	9 36	35	21.44
LTE	ORL			S ORI	75	0	21.52
	15MHz			S. Mr.	1	0	21.42
and 41	MORI	40620		16-QAM	O <sup>R</sup> 1	37	21.59
	6 1	, C			1. LA	74	21.32
	MOK	S M			36	0	20.56
	of the second	QLAD.	MORI	Mo	9 36	18	20.71
	ORLE	0,	,	E ORL	36	35	20.28
	AB	ORLA.	Moles	N. W.	75	0	20.37
	MORI	lu <sub>c</sub>	0.B	QLAR	OFE 1	0	22.22
	الم على	10	RIL	D. 79	1,10	37	21.87
	MOKE	o We	AB	QRLA.	1	74	22.35
	00	QLAD	MORIL	QPSK	9 36	0	20.84
	ORL. N	0,	- AL	P ORL	36	18	20.53
	AB	Н	Mole	O HILL	36	35	20.79
	MORL	W.	2602 5	QLA.	75	0	20.92
	B all	44-1-0	2682.5	0,	1, LAV	0	20.88
	Moke	41515	AB	ORLA	1	37	20.67
	0.6	RLAR	MORL	ME	Ø 1	74	20.82
	ORL	ORL ORLAS	We The	16-QAM	36	0.0	19.93
	AE		MOL		36	18	19.75
	MORE	Mo	OE W		36	35	19.66
	0 4	0	81. M	D	75	0.0	19.84



.0	TAB .	OPLA	40	O UI	150	OFLA	Mole
Band	Band Width	Channel	Freq.(MHz)	Modulation	A	figuration	Average Powe
NO.	- D	ALC: AC			RB Size	RB Offset	(dBm)
ORI	MOL	· @ W.	LAB	ORLAN	1	0	22.72
4 Miles	AB	ORLA!	MORE	MIC	<b>5</b> 1	24	22.62
	ORL	No.		AD TOPI	1 1116	49	22.68
.6	LAB	ORLA	MOIN	QPSK	25	0	21.53
RLA	MOKE	1 III	AB	RLA	25	12	21.43
	OB OL	Ale L and	RL	WO. ORLAE	25	24	21.66
ORI	MOL	- 6	2501		50	0	21.71
Z W	AB	20700	2301	NA PARTIES	<b>9</b> 1	0	21.34
AD	TLAE MORE OFFICE N	39700	المام	AD TOPI	1 1	24	21.52
.0		10RLA	More	S PIL	. 1	49	21.44
RLA	MORE	Me	AB	16-QAM	25	0	20.85
	AB AL	185	RL N	(b)	25	12	20.42
ORI	MOL	G M	LAB	ORLA	25	24	20.62
Me	AB	RLAB	MORE	Me	<u>\$ 50</u>	0	20.32
AD	RLAS HORLAS V		MORLA	*OKI	1 1	0	22.41
		ORLA		ME	110	24	22.36
RLAN		" WO.	OB.	CLAR	OR 1	49	22.29
OF ALK	,S	RLA	QPSK	25	0	21.53	
ORI	ORI AL	M	AB	AE MORLAN	25	12	21.38
1.75	NB		2593 -		<u>\$ 25</u>	24	21.16
LTE	ORL			is orl	50	0	21.46
	10MHz			S W.	. 1	0	21.62
and 41	MORL	40620		16-QAM	0111	24	21.43
O.	10 N	N. C.			1	49	21.71
ORI	MOKE	Z M			25	0	20.37
Mo	oB .	al.Alb		Mo	9 25	12	20.59
NO.	ORLE	O.	-10	E ORL	25	24	20.25
4	AB	RLA	MORE	NI MILE	50	0	20.36
QLA.	MORI	Me	08	ala	OFF 1	0	22.16
O,	10 m	100	RILL	0, 0	1,48	24	22.07
ARL	MOKE	Z W	, AB	RLA	1	49	22.31
Me	O.B	QLAD	MORIL	QPSK	25	0	20.75
B	ORL	O.	4.	B ORL	25	12	21.06
_ 1	AB	Halin	MORE	No.	25	24	20.95
RLAD	MORIL	W.	0005	alab	50	0	20.66
0,	B M.	.0	2685	O 1	1	0	20.73
aRI	MORL	41540	A.B	RLAR	1	24	20.86
Mor	AB 11	QLAB	, ORL	Wo.		49	20.39
B	OPLIN	D <sub>L</sub>	In.	16-QAM	25	0	19.96
4	all all	-QLA!	MORIE	16-QAM	25	12	20.04
2LAP	*ORL	MO.	48	2LAP	25	24	19.86
OL	In-	3	al. A.	Op. 4	50	0	19.77



Dend	Doe d \\\! du	Chaman	C == (NALL=)	Modulette	RB Cor	figuration	Average Powe
Band	Band Width	Channel	Freq.(MHz)	Modulation	RB Size	RB Offset	(dBm)
QR!	NO INO	Q Mi	AB	RLA	1000	0	22.41
	o.B	al Al	MORI	MO	<b>9</b> 1	12	22.32
	ORL	0,	5 T.	AP ORI	1 11	24	22.51
	AE.	QRL.A	Mole	QPSK	12	0	21.43
	MORIL	Mo	68	ORLAR V	12	6	21.38
	A STATE OF		RIL		12	11.0	21.16
	NO PE	- hu	2498.5		25	0	21.56
	O.B	2LAP	2498.5	W	<b>№</b> 1	0	21.38
	ORL	39675	, " al	E ORI	1 1116	12	21.42
	AB	ORLA.	Mole	N. W.	. 1	24	21.26
	MORIL	E MC	OB.	16-QAM	12	0	20.48
	B 11.		RILL	0,	12	6	20.39
	MORE	a the	AB	ARLAN	12	11	20.75
	60	RLAD	MORL	Mo	25	0	20.61
	MORL. B NO	0.	, ~	A OPI	1 1	0	22.42
	RLAS MORLAS	ORLA	MOKI	OEr MO.	. 1	12	22.38
		MO.	0	QLAP.	O <sup>R</sup> 1	24	22.24
AB III ORLA	B	RLA	QPSK	12	0	21.52	
	ORLAS MORL	M	AB	a month	12	6	21.39
MIC	aB.		2593		<u> </u>	△ 11 ×	21.08
LTE	ORL			E TORL	25	0	21.33
	5MHz			'B bu	. 1	0	21.37
and 41	MORL	40620	OB .	16-QAM	O <sup>16</sup> 1	12	21.26
	6 1	, C	Er. M		1.4	24	21.69
	MOK	Shire	AB		12	0	20.42
	60	QLAD	MORIL	Mo	12	6	20.83
	ORLE	0,	- L	G ORL	12	11.0	20.63
	AB	QRLA.	MOLE	T INC	25	0	20.29
	MORI	Ille	0.B	QLAR	O <sup>FE</sup> 1	0	22.16
	الم على	10	RIL	D	1,10	12	21.93
	MOKE	S W	AB	ORLA	<b>1</b>	24	22.42
	<b>6</b> 0	-QLAI	MORIE	QPSK	<u> </u>	0	20.91
	ORL. N	0,	The state of	P ORL	12	6	20.73
	AB	Halin	MOIN	S W	12	11	20.62
	MORL	Me	2607 5	-al-Al-	25	0	20.71
	B all	44-0-0	2687.5	20	1, A	0	20.69
	MOKE	41565	AB	ORLA	<b>1</b>	12	20.74
	O.B	RLAN	MORL	" III'S	<b>9</b> 1	24	20.59
	ORL	,	T.P	16-QAM	12	0	19.86
	AE	ORLAR	MORL		12	6	19.66
	MORI	Mo	oB.	RLAN	12	11	19.92
	0 4	P	21.	D. 4	25	0	19.57



## 2.2 Occupied Bandwidth

#### 2.2.1 Definition

According to FCC section 2.1049 and 27.53(g), the occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission. Occupied bandwidth is also known as the 99% emission bandwidth.

#### 2.2.2 Test Description

See section 2.1.2 of this report.

#### 2.2.3 Test Results

#### LTE Band 25

#### Low channel:

C	hannel Band	dwidth: 1.4N	1Hz	Channel Bandwidth: 3MHz				
Channel	Frequency 99% Bandwidth (MHz)		width (MHz)	Channel	Frequency	99% Bandy	vidth(MHz)	
Charmer	nannei (MHz)	QPSK	16QAM	Channel	(MHz)	QPSK	16QAM	
26047	1850.7	1.1034	1.1034 1.1017		1851.5	2.7142	2.7070	
C	hannel Band	dwidth: 1.4N	1Hz		Channel Ban	dwidth: 3MH	-lz	
Channel	Frequency	26dB Band	lwidth (MHz)	Channel	Frequency	26dB Band	width(MHz)	
Charmer	(MHz)	QPSK	16QAM	Challie	(MHz)	QPSK	16QAM	
26047	1850.7	1.323	1.293	26055	1851.5	2.997	2.996	

	Channel Ban	dwidth: 5Ml	Hz	Channel Bandwidth: 10MHz				
Channel	Frequency 99% B		width (MHz)	Channal	Frequency	99% Bandy	width(MHz)	
Charmer	(MHz)	QPSK	16QAM	GQAM Channel	(MHz)	QPSK	16QAM	
26065	1852.5	4.5130	4.5125	26090	1855.0	8.9606	8.9992	
Channel Bandwidth: 5MHz								
	Channel Ban	dwidth: 5Ml	Hz	C	hannel Ban	dwidth: 10M	Hz	
	Channel Ban Frequency		Hz Iwidth (MHz)		hannel Ban Frequency	dwidth: 10M 26dB Band		
Channel				Channel				

C	Channel Bandwidth: 15MHz				Channel Bandwidth: 20MHz				
Channel	Frequency 99% Bandy		width (MHz)	Channel	Frequency	99% Bandy	width(MHz)		
Charmer	(MHz)	QPSK 16QAM	16QAM	Channel	(MHz)	QPSK	16QAM		
26115	1857.5	13.477	13.477 13.486		1860.0	17.879	17.903		
C	hannel Band	dwidth: 15M	lHz	Channel Bandwidth: 20MHz					
Channel	Frequency	26dB Band	lwidth (MHz)	Channel	Frequency	26dB Band	width(MHz)		
				Channer					
Onamo	(MHz)	QPSK	16QAM	Onamor	(MHz)	QPSK	16QAM		



#### Middle channel:

С	hannel Band	dwidth: 1.4M	1Hz	Channel Bandwidth: 3MHz			
Channel	Frequency	99% Bandwidth (MHz)		Channel	Frequency	99% Bandy	vidth(MHz)
Charmer	(MHz)	QPSK	16QAM	Chame	(MHz)	QPSK	16QAM
26365	1882.5	1.0990	1.0990 1.1027		1882.5	2.7165	2.7140
C	hannel Band	dwidth: 1.4N	1Hz		Channel Ban	dwidth: 3MI	-lz
Channel	Frequency	26dB Band	lwidth (MHz)	Channel	Frequency	26dB Band	width(MHz)
Channel	(MHz)	QPSK	16QAM	Chamei	(MHz)	QPSK	16QAM
26365	1882.5	1.304	1.307	26365	1882.5	2.998	3.005

	Channel Ban	dwidth: 5M	Hz	Channel Bandwidth: 10MHz				
Channel	Frequency	99% Band	99% Bandwidth (MHz)		Frequency	99% Bandy	vidth(MHz)	
Channel	(MHz)	QPSK	16QAM	Channel	(MHz)	QPSK	16QAM	
26365	1882.5	4.5118	4.5095	26365	1882.5	9.0006	8.9972	
	Channel Ban	dwidth: 5M	Hz	C	hannel Ban	dwidth: 10M	Hz	
Channel	Frequency	26dB Band	lwidth (MHz)	Channel	Frequency	26dB Band	width(MHz)	
Channel	(MHz)	QPSK	16QAM	Chamilei	(MHz)	QPSK	16QAM	
26365	1882.5	4.995	5.021	26365	1882.5	9.926	9.850	

C	Channel Band	dwidth: 15M	lHz	Channel Bandwidth: 20MHz				
Channal	Frequency	99% Bandwidth (MHz)		Channel	Frequency	99% Bandy	vidth(MHz)	
Channel	(MHz)	QPSK	16QAM	Chamilei	(MHz)	QPSK	16QAM	
26365	1882.5	13.471	13.457	26365	1882.5	17.927	17.983	
C	Channel Band	dwidth: 15M	lHz	C	Channel Ban	dwidth: 20M	Hz	
Channel	Frequency	26dB Band	lwidth (MHz)	Channel	Frequency	26dB Band	width(MHz)	
Channel	(MHz)	QPSK	16QAM	Chamilei	(MHz)	QPSK	16QAM	
26365	1882.5	14.74	14.74	26365	1882.5	19.42	19.53	



## High channel:

V AV AV AV									
C	hannel Band	dwidth: 1.4N	1Hz	Channel Bandwidth: 3MHz					
Channel	Frequency 99% Bandwidth (MHz)		Channal	Frequency	99% Bandy	width(MHz)			
Channel	(MHz)	QPSK	16QAM Channe	Channel	(MHz)	QPSK	16QAM		
26683	1914.3	1.1082	1.1006	26675	1913.5	2.7145	2.7062		
C	hannel Band	dwidth: 1.4N	1Hz		Channel Ban	dwidth: 3MI	Hz		
Channal	Frequency	26dB Band	lwidth (MHz)	Channal	Frequency	26dB Band	width(MHz)		
Channel	(MHz)	QPSK	16QAM	Channel	(MHz)	QPSK	16QAM		
26683	1914.3	1.302	1.326	26675	1913.5	2.992	3.013		

	Channel Ban	dwidth: 5Ml	Hz	Channel Bandwidth: 10MHz				
Channal	Frequency	99% Bandwidth (MHz)		Channel	Frequency	99% Bandy	vidth(MHz)	
Channel	(MHz)	QPSK	16QAM	Chamilei	(MHz)	QPSK	16QAM	
26665	26665 1912.5 4.5094 4.5191				1910	8.9842	8.9692	
	Channel Ban	dwidth: 5Ml	Hz	Channel Bandwidth: 10MHz				
Channel	Frequency	26dB Band	lwidth (MHz)	Channel	Frequency	26dB Band	width(MHz)	
Channel	(MHz)	QPSK	16QAM	Chamilei	(MHz)	QPSK	16QAM	
26665	1912.5	4.998	5.018	26640	1910	9.940	9.855	

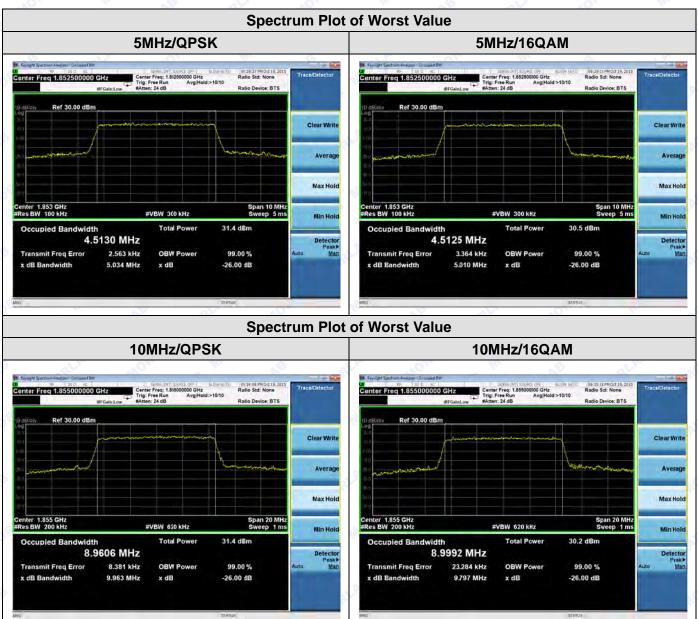
Channel Bandwidth: 15MHz				Channel Bandwidth: 20MHz			
Channel	Frequency	99% Bandwidth (MHz)		Channel	Frequency	99% Bandwidth(MHz)	
	(MHz)	QPSK	16QAM	Challie	(MHz)	QPSK	16QAM
26615	1907.5	13.411	13.465	26590	1905	17.898	17.877
Channel Bandwidth: 15MHz				Channel Bandwidth: 20MHz			
Channel	Frequency	26dB Bandwidth (MHz)		Channel	Frequency	26dB Bandwidth(MHz)	
	(MHz)	QPSK	16QAM	Challie	(MHz)	QPSK	16QAM
26615	1907.5	14.72	14.63	26590	1905	19.59	19.43



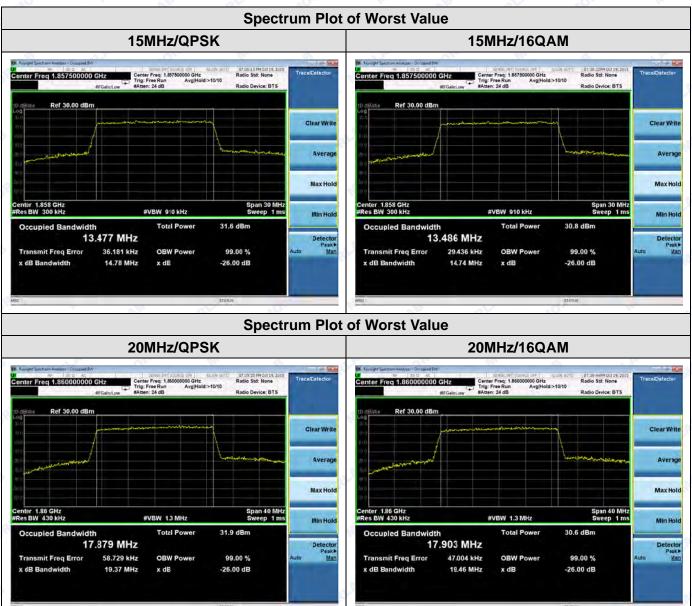
#### Low channel:









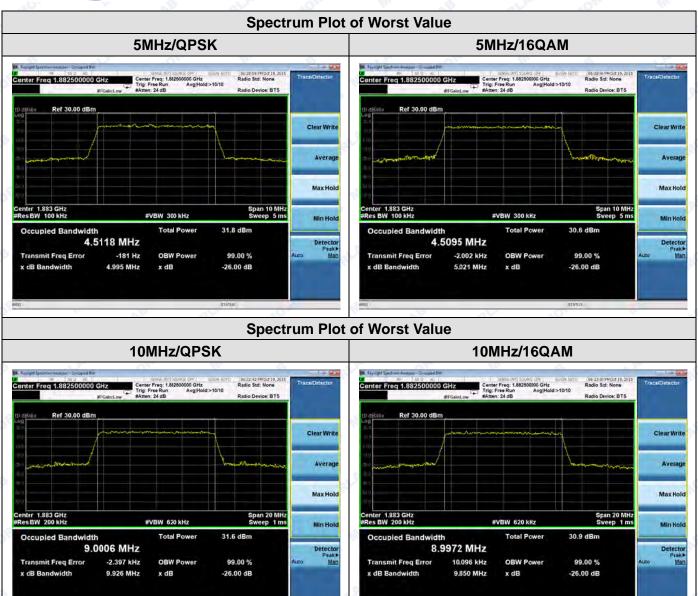




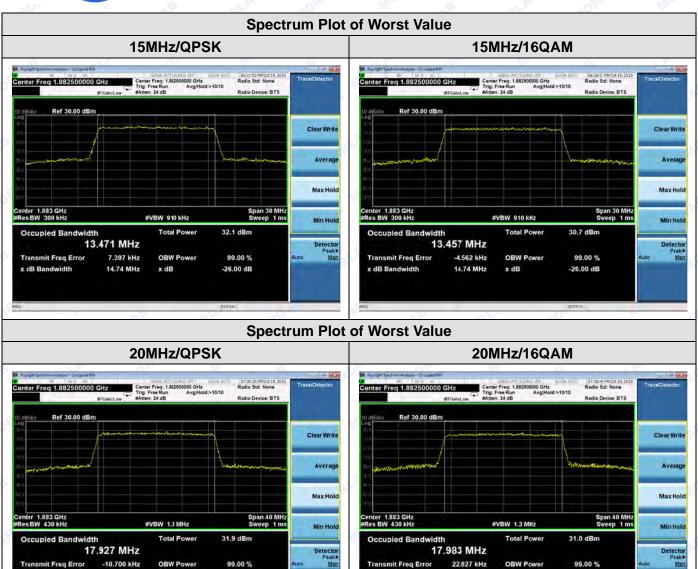
#### Middle channel:











19.42 MHz

19.53 MHz















# LTE Band 26 Low channel:

C	Channel Bandwidth: 1.4MHz				Channel Bandwidth: 3MHz		
Channel	Frequency	99% Band	width (MHz)	Channel	Frequency	99% Bandy	width(MHz)
	(MHz)	QPSK	16QAM	Chamilei	(MHz)	QPSK	16QAM
26797	824.7	1.1018	1.0932	26805	825.5	2.7151	2.7026
C	hannel Band	dwidth: 1.4N	lHz	Channel Bandwidth: 3MHz			
Channel							
Channel	Frequency	26dB Band	width (MHz)	Channel	Frequency	26dB Band	width(MHz)
Channel	Frequency (MHz)	26dB Band QPSK	width (MHz) 16QAM	Channel	Frequency (MHz)	26dB Band	width(MHz)

	Channel Bandwidth: 5MHz				hannel Ban	dwidth: 10M	Hz
Channel	Frequency	99% Band	width (MHz)	Channel	Frequency	99% Bandwidth(MHz)	
Channel	(MHz)	QPSK	16QAM	Chamilei	(MHz)	QPSK	16QAM
26815	826.5	4.5113	4.4988	26840	829	8.9834	8.9905
	Channel Bandwidth: 5MHz			C	hannel Ban	dwidth: 10M	Hz
Channel	Frequency	26dB Band	lwidth (MHz)	Channel	Frequency	26dB Band	width(MHz)
	(MHz)	QPSK	16QAM		(MHz)	QPSK	16QAM
26815	826.5	5.033	4.998	26840	829	9.907	9.910

Channel Bandwidth: 15MHz							
Channel	Frequency	99% Band	width (MHz)				
Channel	(MHz)	QPSK	16QAM				
26865	831.5	13.420	13.430				
C	Channel Band	dwidth: 15MHz					
Channel	Frequency	26dB Band	lwidth (MHz)				
	(MHz)	QPSK	16QAM				
26865	831.5	14.60	14.67				



# Middle channel:

С	Channel Bandwidth: 1.4MHz				Channel Ban	dwidth: 3Ml	Hz
Channel	Frequency	99% Band	width (MHz)	Channel	Frequency	99% Bandy	width(MHz)
	(MHz)	QPSK	16QAM	Chame	(MHz)	QPSK	16QAM
26915	836.5	1.0966	1.0999	26915	836.5	2.7104	2.7205
С	Channel Bandwidth: 1.4MHz			(	Channel Ban	dwidth: 3Ml	Hz
Channel	Frequency	26dB Band	lwidth (MHz)	Channel	Frequency	26dB Band	width(MHz)
	(MHz)	QPSK	16QAM		(MHz)	QPSK	16QAM
26915	836.5	1.300	1.310	26915	836.5	3.006	3.014

	Channel Bandwidth: 5MHz			C	Channel Bandwidth: 10MHz		
Channel	Frequency	99% Band	width (MHz)	Channel	Frequency	99% Bandwidth(MHz)	
Channel	(MHz)	QPSK	16QAM	Channel	(MHz)	QPSK	16QAM
26915	836.5	4.5070	4.5037	26915	836.5	9.0202	9.0125
	Channel Bandwidth: 5MHz			C	hannel Ban	dwidth: 10M	Hz
Channel	Frequency	26dB Band	lwidth (MHz)	Channel	Frequency	26dB Band	width(MHz)
	(MHz)	QPSK	16QAM		(MHz)	QPSK	16QAM
26915	836.5	4.964	5.403	26915	836.5	9.916	9.847

		63.7							
C	Channel Bandwidth: 15MHz								
Channel	Frequency	99% Bandwidth (MHz)							
Chamilei	(MHz)	QPSK	16QAM						
26915	836.5	13.449	13.464						
C	hannel Ban	dwidth: 15M	lHz						
Channel	Frequency	26dB Band	lwidth (MHz)						
	(MHz)	QPSK	16QAM						
26915	836.5	14.69	14.67						



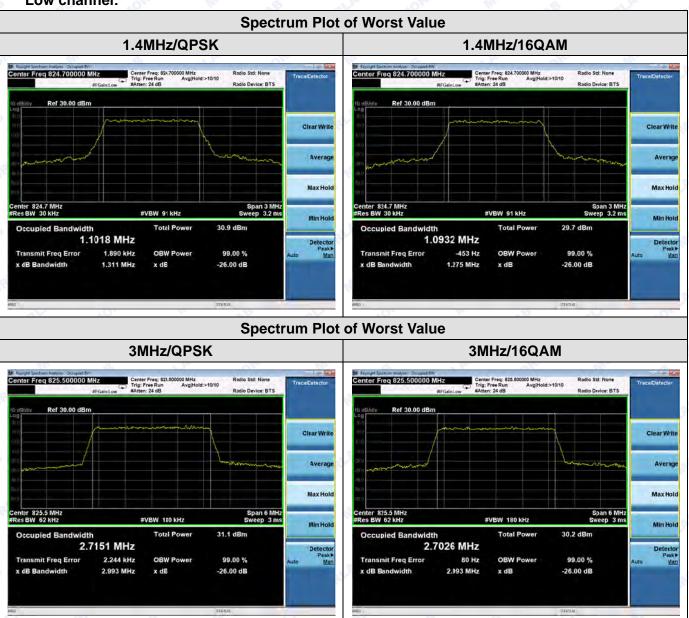
C	Channel Bandwidth: 1.4MHz				Channel Ban	dwidth: 3MI	QPSK 16QAM	
Channel	Frequency	99% Band	width (MHz)	Channel Frequency 9		99% Bandy	99% Bandwidth(MHz)	
Charmer	(MHz)	QPSK	16QAM	Chamilei	(MHz)	QPSK	16QAM	
27033	848.3	1.1031	1.0975	27025	847.5	2.7099	2.7000	
C	hannel Band	el Bandwidth: 1.4MHz			Channel Ban	dwidth: 3MI	Hz	
Channel	Frequency	26dB Band	width (MHz)	Channel	Frequency	26dB Band	width(MHz)	
	(MHz)	QPSK	16QAM		(MHz)	QPSK	16QAM	
27033	848.3	1.277	1.293	27025	847.5	2.994	3.007	

	Channel Bandwidth: 5MHz			С	Channel Bandwidth: 10MHz		
Channel	Frequency	99% Band	width (MHz)	Channel	Frequency 99% Bandwidth(		width(MHz)
Channel	(MHz)	QPSK	16QAM	Channel	(MHz)	QPSK	16QAM
27015	846.5	4.4902	4.4984	26990	844	8.9700	8.9777
	Channel Bandwidth: 5MHz			Channel Bandwidth: 10MHz			
Channel	Frequency	26dB Band	lwidth (MHz)	Channel	Frequency	26dB Band	width(MHz)
	(MHz)	QPSK	16QAM		(MHz)	QPSK	16QAM
27015	846.5	4.952	4.974	26990	844	9.917	9.912

Channel Bandwidth: 15MHz								
Channel	Frequency	99% Band	width (MHz)					
Channe	(MHz)	QPSK	16QAM					
26965	841.5	13.453	13.461					
C	hannel Band	dwidth: 15M	lHz					
Channel	Frequency	26dB Band	26dB Bandwidth (MHz)					
	(MHz)	QPSK	16QAM					
26965	841.5	14.85	14.74					



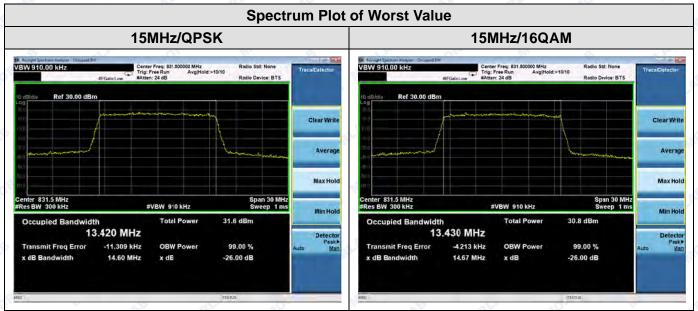
#### Low channel:









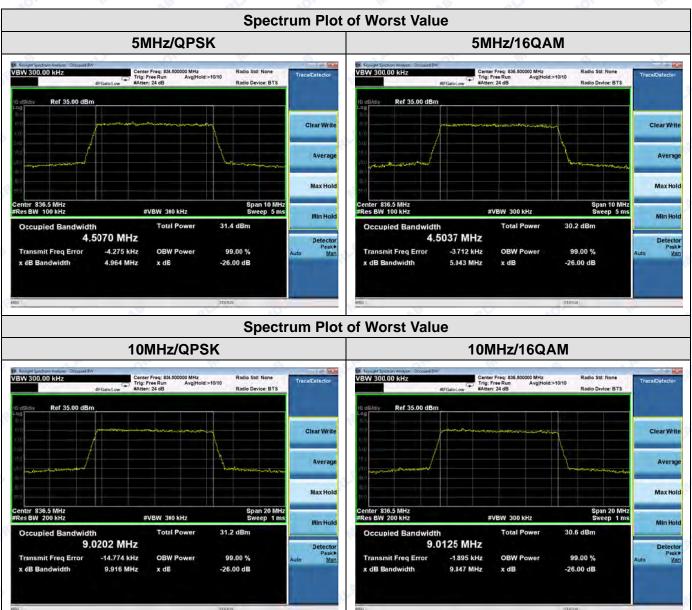




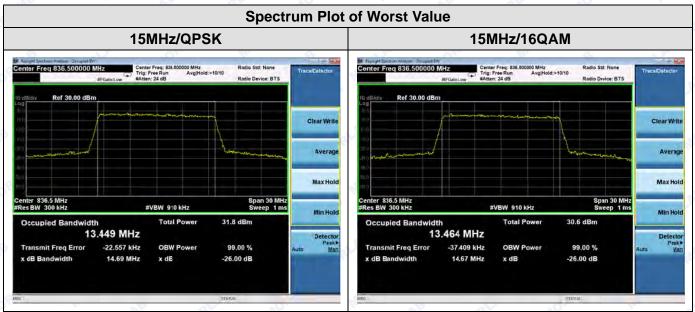
#### Middle channel:







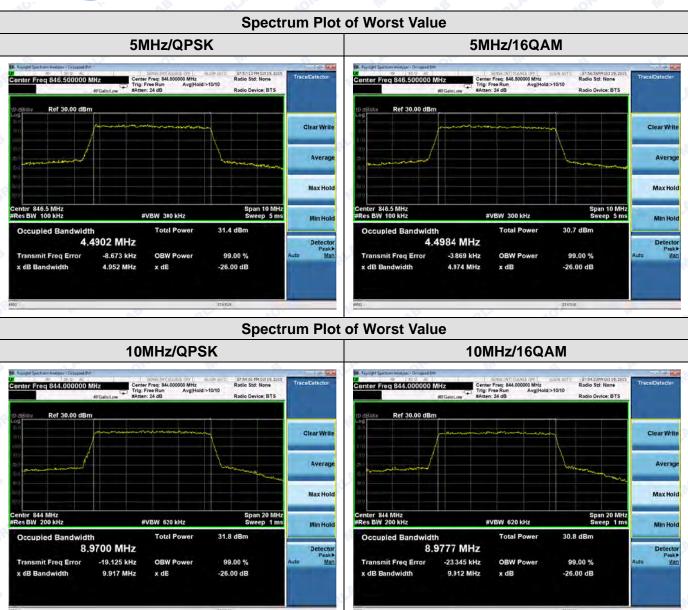




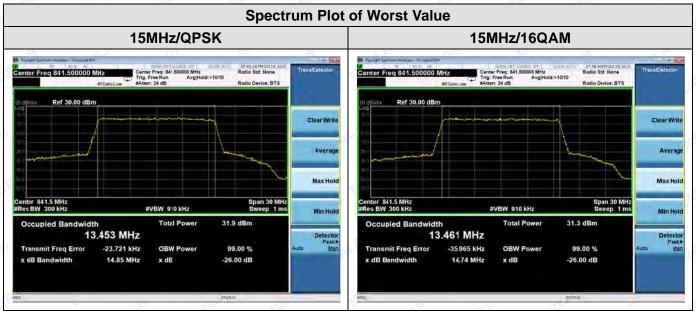














# LTE Band 26 Low channel:

_	The state of the s	AV AV								
1	С	hannel Band	dwidth: 1.4N	ИHz	(	Channel Ban	dwidth: 3MH	lz		
	Channal	Frequency	99% Band	width (MHz)	Channal	Frequency	99% Bandwidth(MHz)  QPSK 16QAM  2,7158 2,7033			
	Channel	(MHz)	QPSK	16QAM	Channel	(MHz)	QPSK	16QAM		
	26697	814.7	1.1015	1.0977	26705	815.5	2.7158	2.7033		
	С	hannel Band	dwidth: 1.4N	ИHz		Channel Ban	dwidth: 3MH	2.7158   2.7033 dwidth: 3MHz		
F	Channel	Frequency	26dB Band	dwidth (MHz)	Channel	Frequency	26dB Band	width(MHz)		
	O'lainio!	(MHz)	QPSK	16QAM		(MHz)	QPSK	16QAM		
4	26697	814.7	1.310	1.287	26705	815.5	2.977	2.980		

	Channel Bandwidth: 5MHz							
Channel	Frequency	99% Band	width (MHz)					
Channel	(MHz)	QPSK	16QAM					
26715	816.5 4.5025 4.5004							
	Channel Ban	dwidth: 5Ml	Hz					
Channel	Frequency	26dB Band	width (MHz)					
	(MHz)	QPSK	16QAM					
26715	816.5	4.990	5.000					

#### Middle channel:

		- C			0	4.30			
	С	Channel Bandwidth: 1.4MHz			(	Channel Bandwidth: 3MHz			
	Channal	Frequency	99% Band	width (MHz)	Frequency 99% Bandw		vidth(MHz)		
	Channel	(MHz)	QPSK	16QAM	Channel (MHz) QPSK	16QAM			
8	26740	819	1.0968	1.1001	26740	819	2.7118	2.7133	
	Channel Bandwidth: 1.4MHz			Channel Bandwidth: 3MHz					
	Channel	Frequency	26dB Band	lwidth (MHz)	Channel	Frequency	26dB Bandy	width(MHz)	
		(MHz)	QPSK	16QAM		(MHz)	QPSK	16QAM	
, o	26740	819	1.291	1.301	26740	819	2.985	2.968	



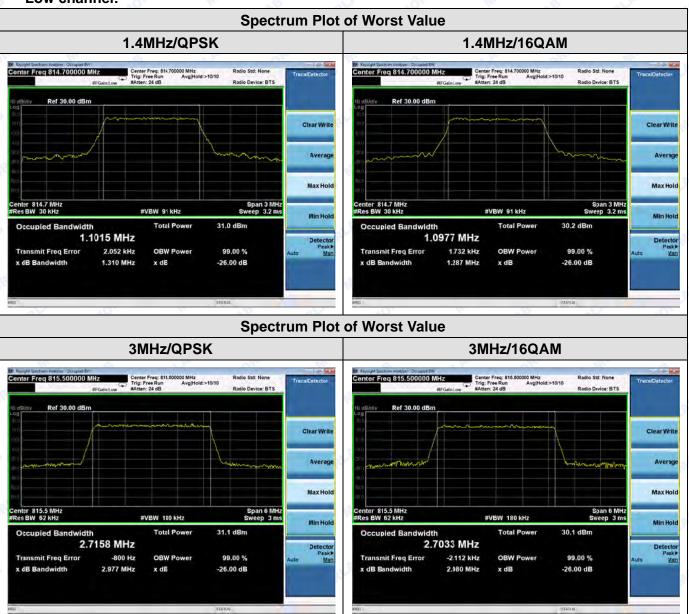
Channel Bandwidth: 5MHz				C	hannel Ban	dwidth: 10M	Hz
Channel	Frequency	y 99% Bandwidth (MHz)	Channel	Frequency	99% Bandy	width(MHz)	
Channel	(MHz)	QPSK	16QAM	Channel	(MHz)	QPSK	16QAM
26740	819	4.5037	4.5060	26740	819	9.0229	9.0071
	Channel Ban	dwidth: 5M	Hz	C	hannel Ban	dwidth: 10M	Hz
Channel	Frequency	26dB Band	lwidth (MHz)	Channel	Frequency	26dB Band	width(MHz)
	(MHz)	QPSK	16QAM		(MHz)	QPSK	16QAM
26740	819	4.991	4.987	26740	819	10.01	9.794

Channel Bandwidth: 1.4MHz					Channel Ban	dwidth: 3MI	-lz
Channel	Frequency	99% Band	andwidth (MHz)	Channel	Frequency	99% Bandy	vidth(MHz)
Channel	(MHz)	QPSK	16QAM	Channel	(MHz)	QPSK	16QAM
26783	823.3	1.1052	1.0971	26775	822.5	2.7090	2.7027
C	hannel Band	dwidth: 1.4N	lHz		Channel Ban	dwidth: 3MI	Ηz
Channel	Frequency	26dB Band	lwidth (MHz)	Channel	Frequency	26dB Band	width(MHz)
	(MHz)	QPSK	16QAM		(MHz)	QPSK	16QAM
26783	823.3	1.281	1.294	26775	822.5	2.997	3.010

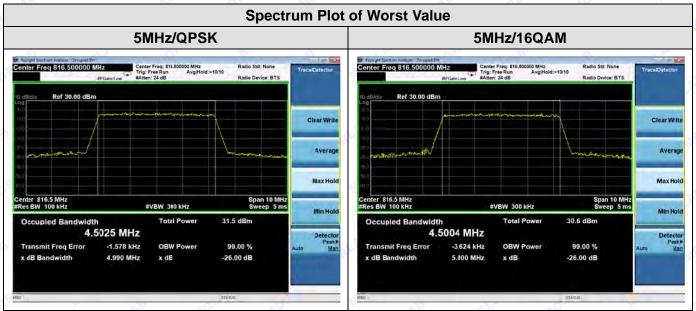
Channel Bandwidth: 5MHz									
Channel	Frequency	99% Band	width (MHz)						
Chamilei	(MHz)	QPSK	16QAM						
26765	821.5	4.5004	4.5062						
	Channel Ban	dwidth: 5M	Hz						
Channel	Frequency	26dB Band	lwidth (MHz)						
	(MHz)	QPSK	16QAM						
26765	821.5	4.990	5.001						



#### Low channel:





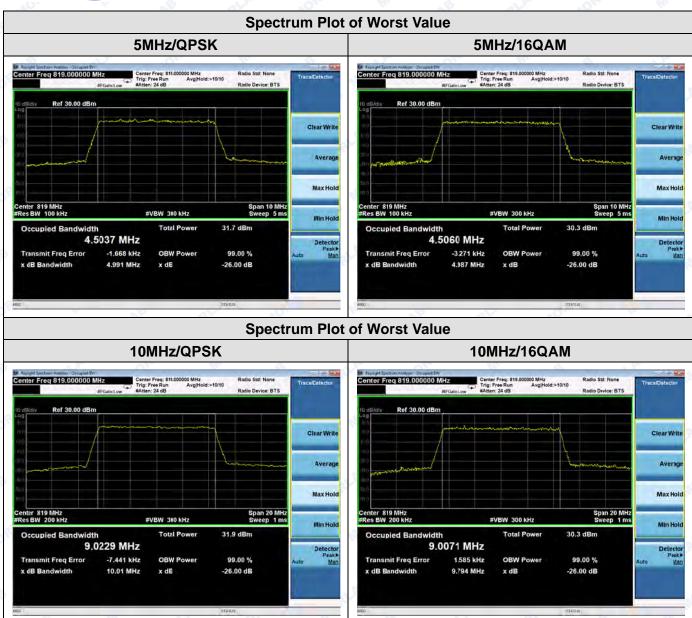




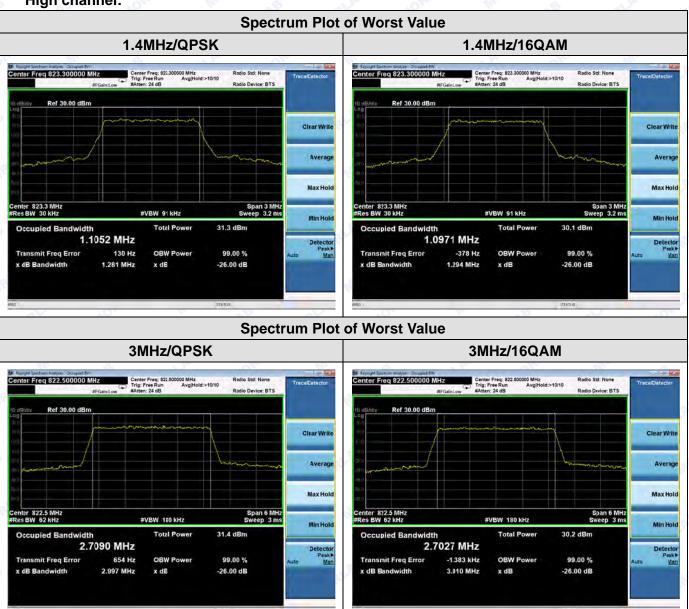
#### Middle channel:



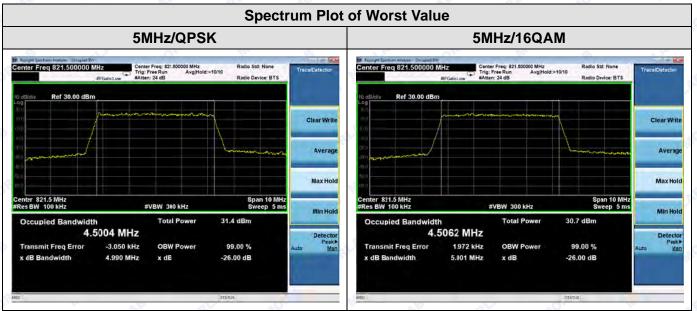














# LTE Band 41 Low channel:

	Channel Bandwidth: 5MHz				hannel Ban	dwidth: 10M	Hz
Channal	Frequency	99% Band	width (MHz)	Channel	Frequency	99% Bandy	vidth(MHz)
Channel	(MHz)	QPSK	16QAM	Channel	(MHz)	QPSK	16QAM
39675	2498.5	4.5057	4.5024	39700	2501	8.9866	8.9304
	Channel Ban	dwidth: 5Ml	Hz	C	hannel Ban	dwidth: 10M	Hz
Channel	Frequency	26dB Band	lwidth (MHz)	Channel   Channel	Frequency	26dB Bandy	width(MHz)
	(MHz)	QPSK	16QAM		(MHz)	QPSK	16QAM
39675	2498.5	4.978	4.994	39700	2501	9.857	9.722

Channel Bandwidth: 15MHz				C	hannel Ban	dwidth: 20M	lHz
Channel	Frequency	99% Band	9% Bandwidth (MHz)		Frequency	99% Band	width(MHz)
Chamilei	(MHz)	QPSK	16QAM	Channel	(MHz)	QPSK	16QAM
39725	2503.5	13.413	13.464	39750	2506	17.883	17.891
C	Channel Band	dwidth: 15M	lHz	C	Channel Band	dwidth: 20M	lHz
				Channel			
Channel	Frequency	26dB Band	lwidth (MHz)	Channel	Frequency	26dB Band	width(MHz)
Channel	Frequency (MHz)	26dB Band QPSK	lwidth (MHz)	Channel	Frequency (MHz)	26dB Band QPSK	width(MHz)

# Middle channel:

Channel Bandwidth: 5MHz				C	Channel Ban	dwidth: 10M	Hz
Channal	Frequency 99% Bandwidth (MF	width (MHz)	Channal	Frequency	99% Bandy	vidth(MHz)	
Channel	(MHz)	QPSK	16QAM	Channel (MHz)	QPSK	16QAM	
40620	2593	4.5113	4.5035	40620	2593	8.9821	8.9832
	Channel Ban	dwidth: 5M	Hz	C	Channel Ban	dwidth: 10M	Hz
Channel	Frequency	26dB Band	lwidth (MHz)	Channel	Frequency	26dB Band	width(MHz)
	(MHz)	QPSK	16QAM		(MHz)	QPSK	16QAM
40620	2593	4.963	4.999	40620	2593	9.807	9.799



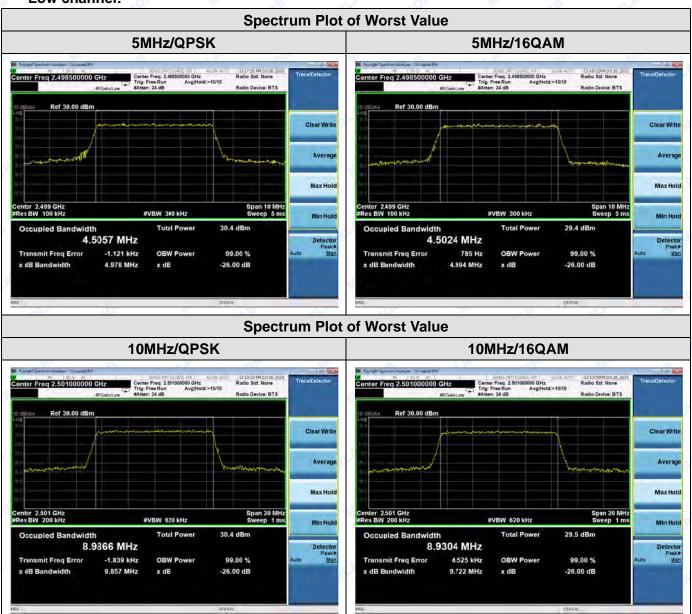
Channel Bandwidth: 15MHz				C	hannel Ban	dwidth: 20M	Hz
Channel	Frequency 99% Bandwidth (MHz)		Channel	Frequency	99% Bandy	width(MHz)	
Channel	(MHz)	QPSK	16QAM	Channel	(MHz)	QPSK	16QAM
40620	2593	13.438	13.441	40620	2593	17.944	17.909
(	Channel Band	Channel Bandwidth: 15MHz			hannel Band	dwidth: 20M	Hz
Channel	Frequency	26dB Band	lwidth (MHz)	Channel	Frequency	26dB Band	width(MHz)
Channel	Frequency (MHz)	26dB Band QPSK	lwidth (MHz)	Channel	Frequency (MHz)	26dB Band	width(MHz)

Channel Bandwidth: 5MHz				C	hannel Ban	dwidth: 10M	Hz
Channel	Frequency	99% Band	width (MHz)	Channel	Frequency	99% Bandy	width(MHz)
Charmer	(MHz)	QPSK	16QAM	Chamile	(MHz)	QPSK	16QAM
41565	2687.5	4.5039	4.4930	41540	2685	8.9868	8.9739
Channel Bandwidth: 5MHz			_				
l l	Channel Ban	awiatn: 5W	HZ	C	hannel Ban	awiath: 10M	HZ
	Frequency		dwidth (MHz)		Frequency	26dB Band	
Channel				Channel			

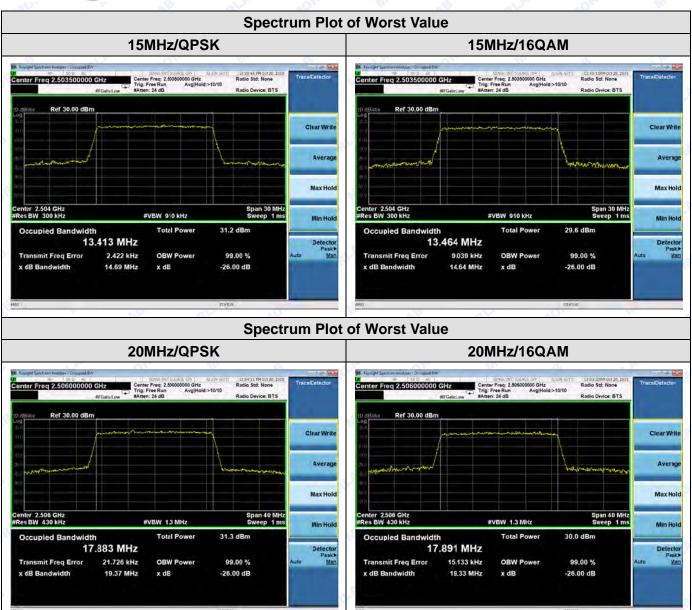
Channel Bandwidth: 15MHz				C	hannel Ban	dwidth: 20M	Hz
Channel	Frequency	99% Band	width (MHz)	Channal	Frequency	99% Bandy	width(MHz)
Channel	(MHz)	QPSK	16QAM	Channel	(MHz)	QPSK	16QAM
41515	2682.5	13.401	13.454	41490	2680	17.874	17.867
C	Channel Band	dwidth: 15M	lHz	C	hannel Ban	dwidth: 20M	Hz
Channel	Frequency	26dB Band	lwidth (MHz)	Channel	Frequency	26dB Bandwidth(MHz)	
	(MHz)	QPSK	16QAM		(MHz)	QPSK	16QAM
41515	2682.5	14.61	14.74	41490	2680	19.30	19.37



#### Low channel:

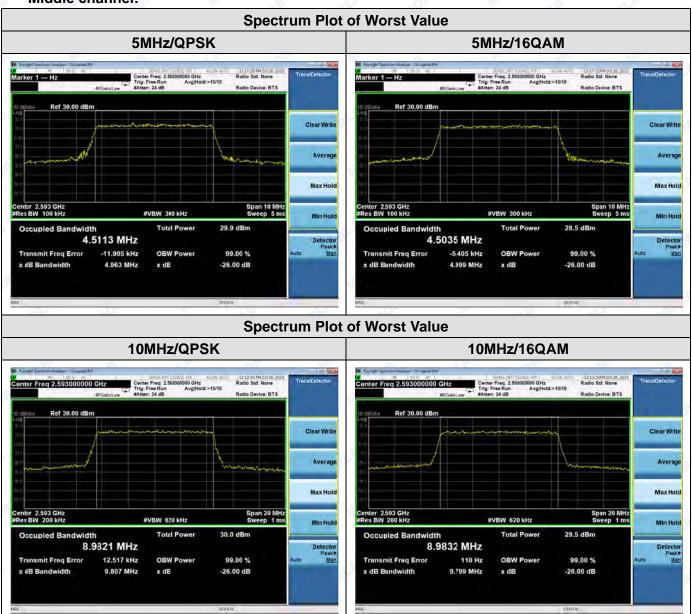








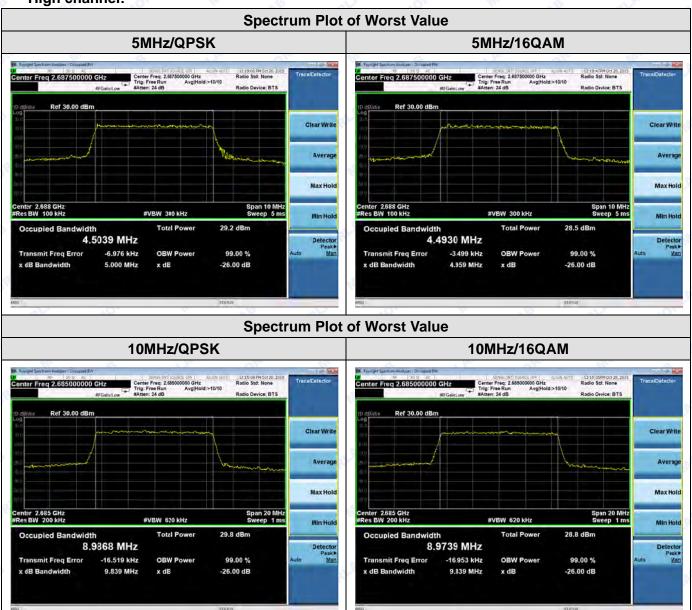
#### Middle channel:

















# 2.3 Frequency Stability

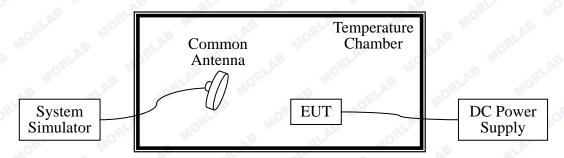
# 2.3.1 Requirement

According to FCC section 2.1055 and FCC section 27.54, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. According to FCC section 2.1055, the test conditions are:

- (a) The temperature is varied from -30°C to +50°C at intervals of not more than 10°C.
- (b) For hand carried battery powered equipment, the primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacture. The supply voltage shall be measured at the input to the cable normally provided with the equipment, or at the power supply terminals if cables are not normally provided.

## 2.3.2 Test Description

Test Setup:



The EUT, which is powered by the DC Power Supply directly, is located in the Temperature Chamber. The EUT is commanded by the System Simulator (SS) to operate at the maximum output power. A call is established between the EUT and the SS via a Common Antenna.

### **Equipments List:**

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
System Simulator	Rohde& Schwarz	CMW500	1201.0002k5 0/124534/wk	2015.02.26	2016.02.25
DC Power Supply	Good Will	GPS-3030DD	EF920938	2015.02.26	2016.02.25
Temperature Chamber	YinHe Experimental Equip.	HL4003T	(n.a.)	2015.02.26	2016.02.25