

# **TEST REPORT**

**APPLICANT** : Nubia Technology Co.,Ltd

PRODUCT NAME : LTE Digital Mobile Phone

: NX627J MODEL NAME

**BRAND NAME** : NUBIA

: 2AHJO-NX627J FCC ID

47 CFR Part 2 STANDARD(S)

47 CFR Part 90, Subpart S

RECEIPT DATE : 2019-08-21

**TEST DATE** : 2019-08-22 to 2019-09-16

**ISSUE DATE** : 2019-09-20

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Change History  Version Date Reason for change							



## 1. Technical Information

Note: Provide by applicant.

### 1.1. Applicant and Manufacturer Information

Applicant:	Nubia Technology Co.,Ltd		
Applicant Address:	10/F, Tower A, Hans Innovation Mansion, North Ring Rd.,		
	No.9018, High-Tech Park, Nanshan District, Shenzhen, China		
Manufacturer:	Nubia Technology Co.,Ltd		
ManufacturerAddress:	10/F, Tower A, Hans Innovation Mansion, North Ring Rd.,		
	No.9018, High-Tech Park, Nanshan District, Shenzhen, China		

## 1.2. Equipment Under Test (EUT) Description

Product Name:	LTE Digital Mobile Phone					
Serial No:	(N/A, marked #1 by test site)					
Hardware Version:	NX627J_V1ME	3				
Software Version:	NX627J_ENC	ommon_\	V1.00			
Modulation Type:	QPSK, 16QAM	1, 64QAN	Л			
Operation Band:	Band 18 / 26					
	LTE Band 18	Tx: 815	MHz - 830MHz			
	LIE Ballu 10	Rx: 860	MHz- 875MHz			
	LTE Band 26	Tx: 814	1MHz- 824MHz			
	LIE Ballu 20	Rx: 859	MHz- 869MHz			
Antenna Type:	PIFA Antenna					
	Top Antenna					
Antenna Gain:	LTE Band 18		1.22 dBi			
	LTE Band 26		1.22 dBi			
	Bottom Antenna					
Antenna Gain:	LTE Band 18		1.22 dBi			
	LTE Band 26		1.22 dBi			
	Battery					
Accessory Information	Brand Name:		ATL			
Accessory Information:	Model No.:		Li3839T44P6h866443			
	Serial No.:		(N/A, marked #1 by test site)			



Capacity:	3900mAh
Rated Voltage:	3.82V
Charge Limit:	4.40V
AC Adapter 1	
Brand Name:	N/A
Model No.:	CYNBY090200-A00
Serial No.:	(N/A, marked #1 by test site)
Rated Input:	100-240V~50/60Hz 0.5A
Rated Output:	5V=3.0A or 9V=2.0A or 12V=1.5A

**Note 1:** For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.



## 1.3. Emission Designator

LTE Band18	Er	Emission Designator (99%O					
BW(MHz)	QPSK	16QAM	64QAM				
5	4M5G7D	4M51W7D	4M51D7W				
10	8M99G7D	8M97W7D	8M97D7W				
15	13M4G7D	13M4W7D	13M4D7W				
LTE Band 26	Er	Emission Designator (99%OBW)					
BW(MHz)	QPSK	16QAM	64QAM				
1.4	1M09G7D	1M09W7D	1M09D7W				
3	2M92G7D	2M68W7D	2M69D7W				
5	4M47G7D	4M47W7D	4M47D7W				
10	8M92G7D	8M92W7D	8M92D7W				



### 1.4. Test Standards and Results

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

No	Identity	Document Title			
1	47 CFR Part 2	Frequency Allocations and Radio Treaty Matters; General Rules			
	47 OFR Fail 2	and Regulations			
4	47 CFR Part 90	Miscellaneous Wireless Communications Services			

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

Section	Description	Test Date	Test Engineer	Result
2.1046, 90.635(b)	Transmitter Conducted Output Power and ERP/EIRP	Aug 23 to Sept2, 2019	Gao Mingzhou PengXuewei	PASS
90.209	Occupied Bandwidth	Aug 23 to Sept2, 2019	Gao Mingzhou	PASS
2.1055, 90.213	Frequency Stability	Sept9, 2019	Gao Mingzhou	PASS
27.50(d)(5)	Peak to Average Radio	Aug 29 to Sept7, 2019	Gao Mingzhou	n/a
2.1051,90.691	Conducted Spurious Emissions	Aug 29 to Sept7, 2019	Gao Mingzhou	PASS
2.1051,90.691	Band Edge	Aug 29 to Sept7, 2019	Gao Mingzhou	PASS
2.1051, 90.691	Radiated Spurious Emissions	Sept2 to 7, 2019	PengXuewei	PASS

**Note 1:** The tests were performed according to the method of measurements prescribed in KDB971168 D01 v03 (Oct 27, 2017)and ANSI/TIA-603-E-2016.

**Note 2:** The path loss during the RF test is calibrated to correct the results by the offset setting in the test equipments. The ref offset 26.5dB contains two parts that cable loss 16.5dB and Attenuator 10dB.



### 1.5. Environmental 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



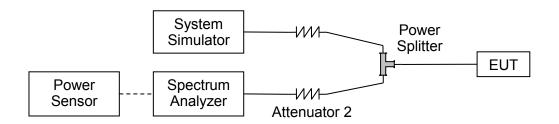
## 2.47 CFR Part 2, Part 90S Requirements

### 2.1. Transmitter Conducted Output Power And ERP/EIRP

#### 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



The EUTis 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.

#### 2.1.3. Test procedure

KDB 971168 D01v03 Section 5.2 and ANSI/TIA-603-E-2016.

EIRP (dBm) = Conducted Output Power (dBm) + Antenna Gain (dBi) ERP (dBm) = EIPR (dBm) - 2.15



#### 2.1.4. Result

### **Conducted Output Power:**

#### **Top Antenna**

LTE Band	118					
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
	Channe	I		/	23925	1
	Frequency (I	MHz)		1	822.5	1
15	QPSK	1	0	1	21.02	1
15	QPSK	1	37	1	20.70	1
15	QPSK	1	74	1	20.77	1
15	QPSK	36	0	1	19.84	1
15	QPSK	36	20	1	19.92	1
15	QPSK	36	39	1	19.72	1
15	QPSK	75	0	/	19.84	1
15	16QAM	1	0	/	20.30	1
15	16QAM	1	37	/	19.70	1
15	16QAM	1	74	/	19.77	1
15	16QAM	36	0	/	18.87	1
15	16QAM	36	20	/	18.89	1
15	16QAM	36	39	/	18.80	1
15	16QAM	75	0	/	18.80	1
15	64QAM	1	0	1	19.98	1
15	64QAM	1	25	1	19.81	1
15	64QAM	1	49	1	19.80	1
15	64QAM	25	0	1	18.82	1
15	64QAM	25	12	1	18.94	1
15	64QAM	25	25	1	18.69	1
15	64QAM	50	0	1	18.82	1



LTE Band 18							
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.	
	Channe	l	•	23900	23925	23950	
	Frequency (I	MHz)		820	822.5	825	
10	QPSK	1	0	20.70	20.95	20.96	
10	QPSK	1	25	20.77	20.70	20.57	
10	QPSK	1	49	20.88	20.64	20.52	
10	QPSK	25	0	19.85	19.99	19.81	
10	QPSK	25	12	19.80	19.84	19.90	
10	QPSK	25	25	19.79	19.77	19.78	
10	QPSK	50	0	19.88	19.85	19.84	
10	16QAM	1	0	19.92	19.83	19.98	
10	16QAM	1	25	19.98	19.86	19.85	
10	16QAM	1	49	20.18	19.87	19.87	
10	16QAM	25	0	18.91	18.84	18.88	
10	16QAM	25	12	18.92	18.72	18.95	
10	16QAM	25	25	18.72	18.73	18.68	
10	16QAM	50	0	18.75	18.86	18.91	
10	64QAM	1	0	20.07	19.91	20.18	
10	64QAM	1	25	19.76	19.55	19.60	
10	64QAM	1	49	20.23	19.73	19.79	
10	64QAM	25	0	18.93	18.99	18.80	
10	64QAM	25	12	18.73	18.79	18.78	
10	64QAM	25	25	18.68	18.83	18.74	
10	64QAM	50	0	18.82	18.82	18.80	



LTE Ban	d 18					
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
	Channe	I		23875	23925	23975
	Frequency (	MHz)		817.5	822.5	827.5
5	QPSK	1	0	20.56	20.67	20.68
5	QPSK	1	12	20.73	20.77	20.64
5	QPSK	1	24	20.73	20.77	20.79
5	QPSK	12	0	19.77	19.81	19.81
5	QPSK	12	7	19.89	19.85	19.85
5	QPSK	12	13	19.93	19.87	19.86
5	QPSK	25	0	19.87	19.84	19.82
5	16QAM	1	0	19.57	19.91	19.89
5	16QAM	1	12	19.92	19.88	20.04
5	16QAM	1	24	19.91	19.88	20.24
5	16QAM	12	0	18.81	18.77	18.76
5	16QAM	12	7	18.83	18.78	18.93
5	16QAM	12	13	19.02	18.82	18.82
5	16QAM	25	0	18.88	18.89	18.77
5	64QAM	1	0	19.79	19.81	19.80
5	64QAM	1	12	19.65	19.88	19.57
5	64QAM	1	24	19.77	20.02	19.60
5	64QAM	12	0	18.66	18.73	18.79
5	64QAM	12	7	18.86	18.85	18.89
5	64QAM	12	13	19.02	18.93	18.88
5	64QAM	25	0	18.77	18.84	18.80

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LTE Band	1 26					
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
	Channe	·I		1	26740	1
	Frequency (	MHz)		1	819.0	1
10	10 QPSK 1		0	1	21.10	1
10	QPSK	1	25	1	21.18	1
10	QPSK	1	49	/	20.94	1
10	QPSK	25	0	1	20.16	1
10	QPSK	25	12	1	20.23	1
10	QPSK	25	25	1	20.15	1
10	QPSK	50	0	1	20.22	/
10	16QAM	1	0	1	20.29	1
10	16QAM	1	25	1	20.18	1
10	16QAM	1	49	/	20.06	/
10	16QAM	25	0	/	19.19	/
10	16QAM	25	12	1	19.14	/
10	16QAM	25	25	/	19.24	/
10	16QAM	50	0	/	19.23	/
10	64QAM	1	0	/	20.15	1
10	64QAM	1	25	/	20.09	/
10	64QAM	1	49	1	20.01	/
10	64QAM	25	0	/	19.28	/
10	64QAM	25	12	/	19.18	/
10	64QAM	25	25	1	19.24	/
10	64QAM	50	0	1	19.15	1

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TE Band	d 26					
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Powe High Ch. / Freq.
	Channe	I	<u>'</u>	26715	26740	26765
	Frequency (	MHz)		816.5	819.0	821.5
5	QPSK	1	0	20.76	20.88	21.00
5	QPSK	1	12	21.06	21.02	21.25
5	QPSK	1	24	21.03	21.04	21.16
5	QPSK	12	0	19.95	20.05	20.06
5	QPSK	12	7	20.06	20.14	20.14
5	QPSK	12	13	20.13	20.20	20.23
5	QPSK	25	0	20.01	20.11	20.14
5	16QAM	1	0	20.49	20.20	20.41
5	16QAM	1	12	20.19	20.47	20.26
5	16QAM	1	24	20.19	20.27	20.08
5	16QAM	12	0	18.95	19.00	19.09
5	16QAM	12	7	19.17	19.15	19.14
5	16QAM	12	13	19.13	19.21	19.24
5	16QAM	25	0	19.10	19.19	19.13
5	64QAM	1	0	20.06	20.16	20.20
5	64QAM	1	12	20.10	20.21	20.25
5	64QAM	1	24	19.92	20.14	20.01
5	64QAM	12	0	19.05	18.95	19.05
5	64QAM	12	7	19.13	19.13	19.15
5	64QAM	12	13	19.13	19.15	19.06
5	64QAM	25	0	19.03	19.11	19.13



LTE Band	1 26					
BW [MHz]	Modulation	Modulation RB Size		Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
	Channe	I		26705	26740	26775
	Frequency (	MHz)		815.5	819.0	822.5
3	QPSK	1	0	20.80	20.93	21.01
3	QPSK	1	8	20.96	21.02	21.01
3	QPSK	1	14	21.00	21.05	21.10
3	QPSK	8	0	20.00	20.12	20.15
3	QPSK	8	4	20.06	20.18	20.22
3	QPSK	8	7	20.02	20.12	20.16
3	QPSK	15	0	19.99	20.05	20.06
3	16QAM	1	0	20.18	20.45	20.52
3	16QAM	1	8	20.43	20.48	20.59
3	16QAM	1	14	20.45	20.46	20.54
3	16QAM	8	0	19.10	19.16	19.04
3	16QAM	8	4	19.11	19.21	19.16
3	16QAM	8	7	18.97	19.08	19.17
3	16QAM	15	0	19.06	19.13	19.11
3	64QAM	1	0	20.40	20.15	20.46
3	64QAM	1	8	20.08	20.05	20.48
3	64QAM	1	14	20.09	20.00	20.48
3	64QAM	8	0	19.12	19.04	19.16
3	64QAM	8	4	19.00	19.15	19.08
3	64QAM	8	7	19.05	19.15	19.15
3	64QAM	15	0	19.05	18.93	19.14



LTE Band	1 26					
BW [MHz]	Modulation	lodulation RB R		Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
	Channe	I		26697	26740	26783
	Frequency (	MHz)		814.7	819.0	823.3
1.4	QPSK	1	0	20.79	20.98	21.00
1.4	QPSK	1	3	20.95	21.04	21.00
1.4	QPSK	1	5	20.99	21.04	21.09
1.4	QPSK	3	0	19.99	20.11	20.14
1.4	QPSK	3	1	20.05	20.17	20.21
1.4	QPSK	3	3	20.01	20.11	20.15
1.4	QPSK	6	0	19.98	20.04	20.05
1.4	16QAM	1	0	20.27	20.44	20.51
1.4	16QAM	1	3	20.42	20.47	20.58
1.4	16QAM	1	5	20.44	20.45	20.53
1.4	16QAM	3	0	19.09	19.13	19.03
1.4	16QAM	3	1	19.10	19.20	19.15
1.4	16QAM	3	3	18.96	19.05	19.16
1.4	16QAM	6	0	19.05	19.12	19.10
1.4	64QAM	1	0	20.39	20.24	20.45
1.4	64QAM	1	3	20.27	20.02	20.40
1.4	64QAM	1	5	20.28	19.99	20.41
1.4	64QAM	3	0	19.11	19.03	19.15
1.4	64QAM	3	1	18.99	19.14	19.07
1.4	64QAM	3	3	19.04	19.13	19.14
1.4	64QAM	6	0	19.04	18.95	19.13



#### **Bottom Antenna**

LTE Band	d 18					
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
	Channe	I		1	23925	1
	Frequency (I	MHz)		1	822.5	1
15	QPSK	1	0	1	22.67	1
15	QPSK	1	37	1	22.35	1
15	QPSK	1	74	1	22.42	1
15	QPSK	36	0	1	21.49	1
15	QPSK	36	20	1	21.57	1
15	QPSK	36	39	1	21.37	1
15	QPSK	75	0	1	21.49	1
15	16QAM	1	0	1	21.95	1
15	16QAM	1	37	1	21.35	1
15	16QAM	1	74	1	21.42	1
15	16QAM	36	0	1	20.52	1
15	16QAM	36	20	1	20.54	1
15	16QAM	36	39	1	20.45	1
15	16QAM	75	0	1	20.45	1
15	64QAM	1	0	1	21.63	1
15	64QAM	1	25	1	21.46	1
15	64QAM	1	49	1	21.45	1
15	64QAM	25	0	1	20.47	1
15	64QAM	25	12	1	20.59	1
15	64QAM	25	25	1	20.34	1
15	64QAM	50	0	1	20.47	1



LTE Ban	d 18					
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
	Channe	I		23900	23925	23950
	Frequency (	MHz)		820	822.5	825
10	QPSK	1	0	22.35	22.60	22.61
10	QPSK	1	25	22.42	22.35	22.22
10	QPSK	1	49	22.53	22.29	22.17
10	QPSK	25	0	21.50	21.64	21.46
10	QPSK	25	12	21.45	21.49	21.55
10	QPSK	25	25	21.44	21.42	21.43
10	QPSK	50	0	21.53	21.50	21.49
10	16QAM	1	0	21.57	21.48	21.63
10	16QAM	1	25	21.63	21.51	21.50
10	16QAM	1	49	21.83	21.52	21.52
10	16QAM	25	0	20.56	20.49	20.53
10	16QAM	25	12	20.57	20.37	20.60
10	16QAM	25	25	20.37	20.38	20.33
10	16QAM	50	0	20.40	20.51	20.56
10	64QAM	1	0	21.72	21.56	21.83
10	64QAM	1	25	21.41	21.20	21.25
10	64QAM	1	49	21.88	21.38	21.44
10	64QAM	25	0	20.58	20.64	20.45
10	64QAM	25	12	20.38	20.44	20.43
10	64QAM	25	25	20.33	20.48	20.39
10	64QAM	50	0	20.47	20.47	20.45



LTE Band	d 18					
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
	Channe	I	1	23875	23925	23975
	Frequency (I	MHz)		817.5	822.5	827.5
5	QPSK	1	0	22.21	22.32	22.33
5	QPSK	1	12	22.38	22.42	22.29
5	QPSK	1	24	22.38	22.42	22.44
5	QPSK	12	0	21.42	21.46	21.46
5	QPSK	12	7	21.54	21.50	21.50
5	QPSK	12	13	21.58	21.52	21.51
5	QPSK	25	0	21.52	21.49	21.47
5	16QAM	1	0	21.22	21.56	21.54
5	16QAM	1	12	21.57	21.53	21.69
5	16QAM	1	24	21.56	21.53	21.89
5	16QAM	12	0	20.46	20.42	20.41
5	16QAM	12	7	20.48	20.43	20.58
5	16QAM	12	13	20.67	20.47	20.47
5	16QAM	25	0	20.53	20.54	20.42
5	64QAM	1	0	21.44	21.46	21.45
5	64QAM	1	12	21.30	21.53	21.22
5	64QAM	1	24	21.42	21.67	21.25
5	64QAM	12	0	20.31	20.38	20.44
5	64QAM	12	7	20.51	20.50	20.54
5	64QAM	12	13	20.67	20.58	20.53
5	64QAM	25	0	20.42	20.49	20.45



LTE Band	1 26					
BW [MHz]	Modulation	Modulation Size Offset Ch. / Freq. Ch.		Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.	
	Channe	I		/	26740	1
	Frequency (	MHz)		/	819.0	1
10	QPSK	1	0	/	22.56	1
10	QPSK	1	25	/	22.64	1
10	QPSK	1	49	/	22.40	1
10	QPSK	25	0	/	21.62	1
10	QPSK	25	12	1	21.69	1
10	QPSK	25	25	1	21.61	1
10	QPSK	50	0	/	21.68	1
10	16QAM	1	0	/	21.75	1
10	16QAM	1	25	/	21.64	1
10	16QAM	1	49	/	21.52	/
10	16QAM	25	0	/	20.65	1
10	16QAM	25	12	/	20.60	1
10	16QAM	25	25	/	20.70	/
10	16QAM	50	0	/	20.69	/
10	64QAM	1	0	/	21.61	/
10	64QAM	1	25	/	21.55	1
10	64QAM	1	49	1	21.47	1
10	64QAM	25	0	1	20.74	1
10	64QAM	25	12	/	20.64	1
10	64QAM	25	25	1	20.70	/
10	64QAM	50	0	1	20.61	/



TE Band	1 26					
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Powe High Ch. / Freq.
	Channe	I	<u>'</u>	26715	26740	26765
	Frequency (	MHz)		816.5	819.0	821.5
5	QPSK	1	0	22.22	22.39	22.46
5	QPSK	1	12	22.52	22.43	22.71
5	QPSK	1	24	22.49	22.50	22.62
5	QPSK	12	0	21.41	21.52	21.52
5	QPSK	12	7	21.52	21.62	21.60
5	QPSK	12	13	21.59	21.66	21.69
5	QPSK	25	0	21.47	21.57	21.60
5	16QAM	1	0	21.95	21.66	21.87
5	16QAM	1	12	21.65	21.93	21.72
5	16QAM	1	24	21.65	21.73	21.54
5	16QAM	12	0	20.41	20.46	20.55
5	16QAM	12	7	20.63	20.61	20.60
5	16QAM	12	13	20.59	20.63	20.70
5	16QAM	25	0	20.56	20.59	20.59
5	64QAM	1	0	21.52	21.62	21.66
5	64QAM	1	12	21.56	21.67	21.71
5	64QAM	1	24	21.38	21.60	21.47
5	64QAM	12	0	20.51	20.41	20.51
5	64QAM	12	7	20.59	20.58	20.61
5	64QAM	12	13	20.59	20.54	20.52
5	64QAM	25	0	20.49	20.61	20.59

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LTE Band	1 26					
BW [MHz]	Modulation RB Size		RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
	Channe	l		26705	26740	26775
	Frequency (	MHz)		815.5	819.0	822.5
3	QPSK	1	0	22.26	22.43	22.47
3	QPSK	1	8	22.42	22.51	22.47
3	QPSK	1	14	22.46	22.55	22.56
3	QPSK	8	0	21.46	21.58	21.61
3	QPSK	8	4	21.52	21.64	21.68
3	QPSK	8	7	21.48	21.59	21.62
3	QPSK	15	0	21.45	21.51	21.52
3	16QAM	1	0	21.64	21.91	21.98
3	16QAM	1	8	21.89	21.93	22.05
3	16QAM	1	14	21.91	21.92	22.00
3	16QAM	8	0	20.56	20.62	20.50
3	16QAM	8	4	20.57	20.67	20.62
3	16QAM	8	7	20.43	20.54	20.63
3	16QAM	15	0	20.52	20.59	20.57
3	64QAM	1	0	21.86	21.61	21.92
3	64QAM	1	8	21.54	21.52	21.94
3	64QAM	1	14	21.55	21.46	21.94
3	64QAM	8	0	20.58	20.50	20.62
3	64QAM	8	4	20.46	20.61	20.54
3	64QAM	8	7	20.51	20.58	20.61
3	64QAM	15	0	20.51	20.44	20.60



_TE Band	1 26					
BW [MHz]	Modulation	RB Size	l Low Middle		Average Power High Ch. / Freq.	
	Channe	I		26697	26740	26783
	Frequency (	MHz)		814.7	819.0	823.3
1.4	QPSK	1	0	22.25	22.39	22.46
1.4	QPSK	1	3	22.41	22.47	22.46
1.4	QPSK	1	5	22.45	22.51	22.55
1.4	QPSK	3	0	21.45	21.53	21.60
1.4	QPSK	3	1	21.51	21.63	21.67
1.4	QPSK	3	3	21.47	21.57	21.61
1.4	QPSK	6	0	21.44	21.50	21.51
1.4	16QAM	1	0	21.73	21.90	21.97
1.4	16QAM	1	3	21.88	21.93	22.04
1.4	16QAM	1	5	21.90	21.91	21.99
1.4	16QAM	3	0	20.55	20.61	20.49
1.4	16QAM	3	1	20.56	20.66	20.61
1.4	16QAM	3	3	20.42	20.53	20.62
1.4	16QAM	6	0	20.51	20.58	20.56
1.4	64QAM	1	0	21.85	21.70	21.91
1.4	64QAM	1	3	21.73	21.48	21.86
1.4	64QAM	1	5	21.74	21.45	21.87
1.4	64QAM	3	0	20.57	20.47	20.61
1.4	64QAM	3	1	20.45	20.61	20.53
1.4	64QAM	3	3	20.50	20.55	20.60
1.4	64QAM	6	0	20.50	20.41	20.59

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### **Effective Radiated Power and Effective Isotropic Radiated Power:**

Top Antenna

LTE Band							
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.		Average Power High Ch. / Freq.
	Channe	l		1	23	925	1
	Frequency (I	MHz)		1	82	2.5	/
		1			1		
15	QPSK	1	0	1	dbm	W	1
15	QPSK	1	37	1	20.09	0.102	/
15	QPSK	1	74	1	19.77	0.095	/
15	QPSK	36	0	1	19.84	0.096	/
15	QPSK	36	20	1	18.91	0.078	1
15	QPSK	36	39	1	18.99	0.079	/
15	QPSK	75	0	1	18.79	0.076	/
15	16QAM	1	0	1	18.91	0.078	1
15	16QAM	1	37	1	19.37	0.086	1
15	16QAM	1	74	1	18.77	0.075	1
15	16QAM	36	0	1	18.84	0.077	/
15	16QAM	36	20	1	17.94	0.062	1
15	16QAM	36	39	1	17.96	0.063	1
15	16QAM	75	0	1	17.87	0.061	1
15	64QAM	1	0	1	17.87	0.061	1
15	64QAM	1	25	1	19.05	0.080	1
15	64QAM	1	49	1	18.88	0.077	1
15	64QAM	25	0	1	18.87	0.077	1
15	64QAM	25	12	1	17.89	0.062	1
15	64QAM	25	25	1	18.01	0.063	1
15	64QAM	50	0	1	17.76	0.060	1



LTE Band	d 18								
BW [MHz]	Modulation	RB Size	RB Offset	Average Lo Ch. /		Mic	e Power Idle Freq.	Average Hi Ch. /	
	Channe	I	•	23900		239	925	239	950
	Frequency (I	MHz)		82	20	82	2.5	82	25
				dbm	W	dbm	W	dbm	W
10	QPSK	1	0	19.77	0.095	20.02	0.100	20.03	0.101
10	QPSK	1	25	19.84	0.096	19.77	0.095	19.64	0.092
10	QPSK	1	49	19.95	0.099	19.71	0.094	19.59	0.091
10	QPSK	25	0	18.92	0.078	19.06	0.081	18.88	0.077
10	QPSK	25	12	18.87	0.077	18.91	0.078	18.97	0.079
10	QPSK	25	25	18.86	0.077	18.84	0.077	18.85	0.077
10	QPSK	50	0	18.95	0.079	18.92	0.078	18.91	0.078
10	16QAM	1	0	18.99	0.079	18.90	0.078	19.05	0.080
10	16QAM	1	25	19.05	0.080	18.93	0.078	18.92	0.078
10	16QAM	1	49	19.25	0.084	18.94	0.078	18.94	0.078
10	16QAM	25	0	17.98	0.063	17.91	0.062	17.95	0.062
10	16QAM	25	12	17.99	0.063	17.79	0.060	18.02	0.063
10	16QAM	25	25	17.79	0.060	17.80	0.060	17.75	0.060
10	16QAM	50	0	17.82	0.061	17.93	0.062	17.98	0.063
10	64QAM	1	0	19.14	0.082	18.98	0.079	19.25	0.084
10	64QAM	1	25	18.83	0.076	18.62	0.073	18.67	0.074
10	64QAM	1	49	19.30	0.085	18.80	0.076	18.86	0.077
10	64QAM	25	0	18.00	0.063	18.06	0.064	17.87	0.061
10	64QAM	25	12	17.80	0.060	17.86	0.061	17.85	0.061
10	64QAM	25	25	17.75	0.060	17.90	0.062	17.81	0.060
10	64QAM	50	0	17.89	0.062	17.89	0.062	17.87	0.061



LTE Band	d 18								
BW [MHz]	Modulation	RB Size	RB Offset	Average Power A Low Ch. / Freq.		Mic	e Power ddle Freq.	Hi	e Power gh Freq.
	Channe	I		23	875	23	925	239	975
	Frequency (I	MHz)		81	7.5	82	2.5	82	7.5
				dbm	W	dbm	W	dbm	W
5	QPSK	1	0	19.63	0.092	19.74	0.094	19.75	0.094
5	QPSK	1	12	19.80	0.095	19.84	0.096	19.71	0.094
5	QPSK	1	24	19.80	0.095	19.84	0.096	19.86	0.097
5	QPSK	12	0	18.84	0.077	18.88	0.077	18.88	0.077
5	QPSK	12	7	18.96	0.079	18.92	0.078	18.92	0.078
5	QPSK	12	13	19.00	0.079	18.94	0.078	18.93	0.078
5	QPSK	25	0	18.94	0.078	18.91	0.078	18.89	0.077
5	16QAM	1	0	18.64	0.073	18.98	0.079	18.96	0.079
5	16QAM	1	12	18.99	0.079	18.95	0.079	19.11	0.081
5	16QAM	1	24	18.98	0.079	18.95	0.079	19.31	0.085
5	16QAM	12	0	17.88	0.061	17.84	0.061	17.83	0.061
5	16QAM	12	7	17.90	0.062	17.85	0.061	18.00	0.063
5	16QAM	12	13	18.09	0.064	17.89	0.062	17.89	0.062
5	16QAM	25	0	17.95	0.062	17.96	0.063	17.84	0.061
5	64QAM	1	0	18.86	0.077	18.88	0.077	18.87	0.077
5	64QAM	1	12	18.72	0.074	18.95	0.079	18.64	0.073
5	64QAM	1	24	18.84	0.077	19.09	0.081	18.67	0.074
5	64QAM	12	0	17.73	0.059	17.80	0.060	17.86	0.061
5	64QAM	12	7	17.93	0.062	17.92	0.062	17.96	0.063
5	64QAM	12	13	18.09	0.064	18.00	0.063	17.95	0.062
5	64QAM	25	0	17.84	0.061	17.91	0.062	17.87	0.061



TE Band	d 26							
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Mic	e Power ddle Freq.	Average Powe High Ch. / Freq.	
	Channe			/	26740		/	
	Frequency (			/		9.0	/	
				1	dbm	W	1	
10	QPSK	1	0	1	20.17	0.104	1	
10	QPSK	1	25	/	20.25	0.106	1	
10	QPSK	1	49	/	20.01	0.100	/	
10	QPSK	25	0	/	19.23	0.084	/	
10	QPSK	25	12	/	19.30	0.085	/	
10	QPSK	25	25	/	19.22	0.084	/	
10	QPSK	50	0	/	19.29	0.085	/	
10	16QAM	1	0	/	19.36	0.086	/	
10	16QAM	1	25	/	19.25	0.084	/	
10	16QAM	1	49	/	19.13	0.082	/	
10	16QAM	25	0	/	18.26	0.067	/	
10	16QAM	25	12	/	18.21	0.066	/	
10	16QAM	25	25	/	18.31	0.068	/	
10	16QAM	50	0	/	18.30	0.068	/	
10	64QAM	1	0	/	19.22	0.084	/	
10	64QAM	1	25	/	19.16	0.082	/	
10	64QAM	1	49	/	19.08	0.081	/	
10	64QAM	25	0	/	18.35	0.068	/	
10	64QAM	25	12	/	18.25	0.067	/	
10	64QAM	25	25	/	18.31	0.068	1	
10	64QAM	50	0	/	18.22	0.066	/	



LTE Band	d 26								
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq. Average Power Middle Ch. / Freq. Ch. / Freq.		Average Power High Ch. / Freq.			
	Channe	l	•	26715		26	740	26	765
	Frequency (	MHz)		816.5		81	9.0	82	1.5
				dbm	W	dbm	W	dbm	W
5	QPSK	1	0	19.83	0.096	19.97	0.099	20.07	0.102
5	QPSK	1	12	20.13	0.103	20.07	0.102	20.32	0.108
5	QPSK	1	24	20.10	0.102	20.11	0.103	20.23	0.105
5	QPSK	12	0	19.02	0.080	19.13	0.082	19.13	0.082
5	QPSK	12	7	19.13	0.082	19.21	0.083	19.21	0.083
5	QPSK	12	13	19.20	0.083	19.27	0.085	19.30	0.085
5	QPSK	25	0	19.08	0.081	19.18	0.083	19.21	0.083
5	16QAM	1	0	19.56	0.090	19.27	0.085	19.48	0.089
5	16QAM	1	12	19.26	0.084	19.54	0.090	19.33	0.086
5	16QAM	1	24	19.26	0.084	19.34	0.086	19.15	0.082
5	16QAM	12	0	18.02	0.063	18.07	0.064	18.16	0.065
5	16QAM	12	7	18.24	0.067	18.22	0.066	18.21	0.066
5	16QAM	12	13	18.20	0.066	18.27	0.067	18.31	0.068
5	16QAM	25	0	18.17	0.066	18.20	0.066	18.20	0.066
5	64QAM	1	0	19.13	0.082	19.23	0.084	19.27	0.085
5	64QAM	1	12	19.17	0.083	19.28	0.085	19.32	0.086
5	64QAM	1	24	18.99	0.079	19.21	0.083	19.08	0.081
5	64QAM	12	0	18.12	0.065	18.02	0.063	18.12	0.065
5	64QAM	12	7	18.20	0.066	18.19	0.066	18.22	0.066
5	64QAM	12	13	18.20	0.066	18.15	0.065	18.13	0.065
5	64QAM	25	0	18.10	0.065	18.25	0.067	18.20	0.066



LTE Band	d 26								
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Middle Ch. / Freq. Ch. / Freq.			ddle	Average Power High Ch. / Freq.	
	Channe	I	•	26705		26	740	267	775
	Frequency (	MHz)		81	5.5	81	9.0	82	2.5
				dbm	W	dbm	W	dbm	W
3	QPSK	1	0	19.87	0.097	20.03	0.101	20.08	0.102
3	QPSK	1	8	20.03	0.101	20.12	0.103	20.08	0.102
3	QPSK	1	14	20.07	0.102	20.12	0.103	20.17	0.104
3	QPSK	8	0	19.07	0.081	19.19	0.083	19.22	0.084
3	QPSK	8	4	19.13	0.082	19.25	0.084	19.29	0.085
3	QPSK	8	7	19.09	0.081	19.19	0.083	19.23	0.084
3	QPSK	15	0	19.06	0.081	19.12	0.082	19.13	0.082
3	16QAM	1	0	19.25	0.084	19.52	0.090	19.59	0.091
3	16QAM	1	8	19.50	0.089	19.55	0.090	19.66	0.092
3	16QAM	1	14	19.52	0.090	19.53	0.090	19.61	0.091
3	16QAM	8	0	18.17	0.066	18.23	0.067	18.11	0.065
3	16QAM	8	4	18.18	0.066	18.28	0.067	18.23	0.067
3	16QAM	8	7	18.04	0.064	18.15	0.065	18.24	0.067
3	16QAM	15	0	18.13	0.065	18.20	0.066	18.18	0.066
3	64QAM	1	0	19.47	0.089	19.22	0.084	19.53	0.090
3	64QAM	1	8	19.15	0.082	19.12	0.082	19.55	0.090
3	64QAM	1	14	19.16	0.082	19.07	0.081	19.55	0.090
3	64QAM	8	0	18.19	0.066	18.11	0.065	18.23	0.067
3	64QAM	8	4	18.07	0.064	18.22	0.066	18.15	0.065
3	64QAM	8	7	18.12	0.065	18.18	0.066	18.22	0.066
3	64QAM	15	0	18.12	0.065	18.04	0.064	18.21	0.066



LTE Band	1 26								
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq. Average Power Middle Ch. / Freq. Ch. / Freq.		Average Powe High Ch. / Freq.			
	Channe	I	•	266	697	26	740	26	783
	Frequency (	MHz)		81	4.7	81	9.0	82	3.3
				dbm	W	dbm	W	dbm	W
1.4	QPSK	1	0	19.86	0.097	20.02	0.100	20.07	0.102
1.4	QPSK	1	3	20.02	0.100	20.11	0.103	20.07	0.102
1.4	QPSK	1	5	20.06	0.101	20.11	0.103	20.16	0.104
1.4	QPSK	3	0	19.06	0.081	19.18	0.083	19.21	0.083
1.4	QPSK	3	1	19.12	0.082	19.24	0.084	19.28	0.085
1.4	QPSK	3	3	19.08	0.081	19.18	0.083	19.22	0.084
1.4	QPSK	6	0	19.05	0.080	19.11	0.081	19.12	0.082
1.4	16QAM	1	0	19.34	0.086	19.51	0.089	19.58	0.091
1.4	16QAM	1	3	19.49	0.089	19.54	0.090	19.65	0.092
1.4	16QAM	1	5	19.51	0.089	19.52	0.090	19.60	0.091
1.4	16QAM	3	0	18.16	0.065	18.22	0.066	18.10	0.065
1.4	16QAM	3	1	18.17	0.066	18.27	0.067	18.22	0.066
1.4	16QAM	3	3	18.03	0.064	18.14	0.065	18.23	0.067
1.4	16QAM	6	0	18.12	0.065	18.19	0.066	18.17	0.066
1.4	64QAM	1	0	19.46	0.088	19.31	0.085	19.52	0.090
1.4	64QAM	1	3	19.34	0.086	19.09	0.081	19.47	0.089
1.4	64QAM	1	5	19.35	0.086	19.06	0.081	19.48	0.089
1.4	64QAM	3	0	18.18	0.066	18.10	0.065	18.22	0.066
1.4	64QAM	3	1	18.06	0.064	18.21	0.066	18.14	0.065
1.4	64QAM	3	3	18.11	0.065	18.17	0.066	18.21	0.066
1.4	64QAM	6	0	18.11	0.065	18.03	0.064	18.20	0.066



#### **Bottom Antenna**

LTE Band	d 18						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Mic	e Power Idle Freq.	Average Power High Ch. / Freq.
	Channe	I		1	23925		/
	Frequency (I	MHz)		1	82	2.5	1
				1			1
15	QPSK	1	0	1	dbm	W	1
15	QPSK	1	37	1	21.74	0.149	1
15	QPSK	1	74	1	21.42	0.139	1
15	QPSK	36	0	1	21.49	0.141	1
15	QPSK	36	20	1	20.56	0.114	1
15	QPSK	36	39	1	20.64	0.116	1
15	QPSK	75	0	1	20.44	0.111	1
15	16QAM	1	0	1	20.56	0.114	1
15	16QAM	1	37	1	21.02	0.126	1
15	16QAM	1	74	1	20.42	0.110	1
15	16QAM	36	0	1	20.49	0.112	1
15	16QAM	36	20	1	19.59	0.091	1
15	16QAM	36	39	1	19.61	0.091	1
15	16QAM	75	0	1	19.52	0.090	1
15	64QAM	1	0	1	19.52	0.090	/
15	64QAM	1	25	1	20.70	0.117	1
15	64QAM	1	49	1	20.53	0.113	/
15	64QAM	25	0	1	20.52	0.113	/
15	64QAM	25	12	1	19.54	0.090	/
15	64QAM	25	25	1	19.66	0.092	1
15	64QAM	50	0	1	19.41	0.087	/

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LTE Band	d 18								
BW [MHz]	Modulation	RB Size	RB Offset	Lo	e Power ow Freq.	Mic	e Power Idle Freq.	Hi	e Power gh Freq.
	Channe	I		239	900	23	925	239	950
	Frequency (I	MHz)		820		82	2.5	82	25
				dbm	W	dbm	W	dbm	W
10	QPSK	1	0	21.42	0.139	21.67	0.147	21.68	0.147
10	QPSK	1	25	21.49	0.141	21.42	0.139	21.29	0.135
10	QPSK	1	49	21.60	0.145	21.36	0.137	21.24	0.133
10	QPSK	25	0	20.57	0.114	20.71	0.118	20.53	0.113
10	QPSK	25	12	20.52	0.113	20.56	0.114	20.62	0.115
10	QPSK	25	25	20.51	0.112	20.49	0.112	20.50	0.112
10	QPSK	50	0	20.60	0.115	20.57	0.114	20.56	0.114
10	16QAM	1	0	20.64	0.116	20.55	0.114	20.70	0.117
10	16QAM	1	25	20.70	0.117	20.58	0.114	20.57	0.114
10	16QAM	1	49	20.90	0.123	20.59	0.115	20.59	0.115
10	16QAM	25	0	19.63	0.092	19.56	0.090	19.60	0.091
10	16QAM	25	12	19.64	0.092	19.44	0.088	19.67	0.093
10	16QAM	25	25	19.44	0.088	19.45	0.088	19.40	0.087
10	16QAM	50	0	19.47	0.089	19.58	0.091	19.63	0.092
10	64QAM	1	0	20.79	0.120	20.63	0.116	20.90	0.123
10	64QAM	1	25	20.48	0.112	20.27	0.106	20.32	0.108
10	64QAM	1	49	20.95	0.124	20.45	0.111	20.51	0.112
10	64QAM	25	0	19.65	0.092	19.71	0.094	19.52	0.090
10	64QAM	25	12	19.45	0.088	19.51	0.089	19.50	0.089
10	64QAM	25	25	19.40	0.087	19.55	0.090	19.46	0.088
10	64QAM	50	0	19.54	0.090	19.54	0.090	19.52	0.090



_TE Band	d 18								
BW [MHz]	Modulation	RB Size	RB Offset	Low M		Mic	e Power ddle Freq.	Average Pow High Ch. / Freq.	
	Channe	l	I	23	875		925	239	•
	Frequency (I	MHz)		817.5		82	2.5	82	7.5
				dbm	W	dbm	W	dbm	W
5	QPSK	1	0	21.28	0.134	21.39	0.138	21.40	0.138
5	QPSK	1	12	21.45	0.140	21.49	0.141	21.36	0.137
5	QPSK	1	24	21.45	0.140	21.49	0.141	21.51	0.142
5	QPSK	12	0	20.49	0.112	20.53	0.113	20.53	0.113
5	QPSK	12	7	20.61	0.115	20.57	0.114	20.57	0.114
5	QPSK	12	13	20.65	0.116	20.59	0.115	20.58	0.114
5	QPSK	25	0	20.59	0.115	20.56	0.114	20.54	0.113
5	16QAM	1	0	20.29	0.107	20.63	0.116	20.61	0.115
5	16QAM	1	12	20.64	0.116	20.60	0.115	20.76	0.119
5	16QAM	1	24	20.63	0.116	20.60	0.115	20.96	0.125
5	16QAM	12	0	19.53	0.090	19.49	0.089	19.48	0.089
5	16QAM	12	7	19.55	0.090	19.50	0.089	19.65	0.092
5	16QAM	12	13	19.74	0.094	19.54	0.090	19.54	0.090
5	16QAM	25	0	19.60	0.091	19.61	0.091	19.49	0.089
5	64QAM	1	0	20.51	0.112	20.53	0.113	20.52	0.113
5	64QAM	1	12	20.37	0.109	20.60	0.115	20.29	0.107
5	64QAM	1	24	20.49	0.112	20.74	0.119	20.32	0.108
5	64QAM	12	0	19.38	0.087	19.45	0.088	19.51	0.089
5	64QAM	12	7	19.58	0.091	19.57	0.091	19.61	0.091
5	64QAM	12	13	19.74	0.094	19.65	0.092	19.60	0.091
5	64QAM	25	0	19.49	0.089	19.56	0.090	19.52	0.090



TE Band	1 26						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Mic	e Power Idle Freq.	Average Powel High Ch. / Freq.
	Channe	l		1	26	740	1
	Frequency (	MHz)		1	819.0		/
				1	dbm	W	/
10	QPSK	1	0	/	21.63	0.146	/
10	QPSK	1	25	/	21.71	0.148	/
10	QPSK	1	49	/	21.47	0.140	/
10	QPSK	25	0	/	20.69	0.117	/
10	QPSK	25	12	/	20.76	0.119	1
10	QPSK	25	25	/	20.68	0.117	1
10	QPSK	50	0	/	20.75	0.119	1
10	16QAM	1	0	1	20.82	0.121	1
10	16QAM	1	25	1	20.71	0.118	1
10	16QAM	1	49	/	20.59	0.115	1
10	16QAM	25	0	/	19.72	0.094	1
10	16QAM	25	12	/	19.67	0.093	1
10	16QAM	25	25	/	19.77	0.095	1
10	16QAM	50	0	/	19.76	0.095	/
10	64QAM	1	0	/	20.68	0.117	/
10	64QAM	1	25	/	20.62	0.115	/
10	64QAM	1	49	/	20.54	0.113	/
10	64QAM	25	0	/	19.81	0.096	1
10	64QAM	25	12	/	19.71	0.094	1
10	64QAM	25	25	/	19.77	0.095	/
10	64QAM	50	0	1	19.68	0.093	1



LTE Band	1 26								
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq. Average Power Middle Ch. / Freq. Ch. / Freq.		Average Power High Ch. / Freq.			
	Channe	I		26	715	26	740	26	765
	Frequency (	MHz)		81	6.5	81	9.0	82	1.5
				dbm	W	dbm	W	dbm	W
5	QPSK	1	0	21.29	0.135	21.43	0.139	21.53	0.142
5	QPSK	1	12	21.59	0.144	21.53	0.142	21.78	0.151
5	QPSK	1	24	21.56	0.143	21.57	0.144	21.69	0.148
5	QPSK	12	0	20.48	0.112	20.59	0.115	20.59	0.115
5	QPSK	12	7	20.59	0.115	20.67	0.117	20.67	0.117
5	QPSK	12	13	20.66	0.116	20.73	0.118	20.76	0.119
5	QPSK	25	0	20.54	0.113	20.64	0.116	20.67	0.117
5	16QAM	1	0	21.02	0.126	20.73	0.118	20.94	0.124
5	16QAM	1	12	20.72	0.118	21.00	0.126	20.79	0.120
5	16QAM	1	24	20.72	0.118	20.80	0.120	20.61	0.115
5	16QAM	12	0	19.48	0.089	19.53	0.090	19.62	0.092
5	16QAM	12	7	19.70	0.093	19.68	0.093	19.67	0.093
5	16QAM	12	13	19.66	0.092	19.73	0.094	19.77	0.095
5	16QAM	25	0	19.63	0.092	19.66	0.092	19.66	0.092
5	64QAM	1	0	20.59	0.115	20.69	0.117	20.73	0.118
5	64QAM	1	12	20.63	0.116	20.74	0.119	20.78	0.120
5	64QAM	1	24	20.45	0.111	20.67	0.117	20.54	0.113
5	64QAM	12	0	19.58	0.091	19.48	0.089	19.58	0.091
5	64QAM	12	7	19.66	0.092	19.65	0.092	19.68	0.093
5	64QAM	12	13	19.66	0.092	19.61	0.091	19.59	0.091
5	64QAM	25	0	19.56	0.090	19.71	0.094	19.66	0.092



TE Band	d 26								
BW [MHz]	Modulation	RB Size	RB Offset	Average Power		ddle	Average Power High Ch. / Freq.		
	Channe	I	1	26	705	26	740	267	775
	Frequency (	MHz)		81	5.5	81	9.0	82	2.5
				dbm	W	dbm	W	dbm	W
3	QPSK	1	0	21.33	0.136	21.49	0.141	21.54	0.14
3	QPSK	1	8	21.49	0.141	21.58	0.144	21.54	0.14
3	QPSK	1	14	21.53	0.142	21.58	0.144	21.63	0.14
3	QPSK	8	0	20.53	0.113	20.65	0.116	20.68	0.11
3	QPSK	8	4	20.59	0.115	20.71	0.118	20.75	0.11
3	QPSK	8	7	20.55	0.114	20.65	0.116	20.69	0.11
3	QPSK	15	0	20.52	0.113	20.58	0.114	20.59	0.11
3	16QAM	1	0	20.71	0.118	20.98	0.125	21.05	0.12
3	16QAM	1	8	20.96	0.125	21.01	0.126	21.12	0.12
3	16QAM	1	14	20.98	0.125	20.99	0.126	21.07	0.12
3	16QAM	8	0	19.63	0.092	19.69	0.093	19.57	0.09
3	16QAM	8	4	19.64	0.092	19.74	0.094	19.69	0.09
3	16QAM	8	7	19.50	0.089	19.61	0.091	19.70	0.09
3	16QAM	15	0	19.59	0.091	19.66	0.092	19.64	0.09
3	64QAM	1	0	20.93	0.124	20.68	0.117	20.99	0.12
3	64QAM	1	8	20.61	0.115	20.58	0.114	21.01	0.12
3	64QAM	1	14	20.62	0.115	20.53	0.113	21.01	0.12
3	64QAM	8	0	19.65	0.092	19.57	0.091	19.69	0.09
3	64QAM	8	4	19.53	0.090	19.68	0.093	19.61	0.09
3	64QAM	8	7	19.58	0.091	19.64	0.092	19.68	0.09
3	64QAM	15	0	19.58	0.091	19.50	0.089	19.67	0.09



LTE Band	1 26								
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.		Average Power Middle Ch. / Freq.		Average Power High Ch. / Freq.	
	Channe	I		26697		26740		26783	
	Frequency (	814.7		819.0		823.3			
				dbm	W	dbm	W	dbm	W
1.4	QPSK	1	0	21.32	0.136	21.48	0.141	21.53	0.142
1.4	QPSK	1	3	21.48	0.141	21.57	0.144	21.53	0.142
1.4	QPSK	1	5	21.52	0.142	21.57	0.144	21.62	0.145
1.4	QPSK	3	0	20.52	0.113	20.64	0.116	20.67	0.117
1.4	QPSK	3	1	20.58	0.114	20.70	0.117	20.74	0.119
1.4	QPSK	3	3	20.54	0.113	20.64	0.116	20.68	0.117
1.4	QPSK	6	0	20.51	0.112	20.57	0.114	20.58	0.114
1.4	16QAM	1	0	20.80	0.120	20.97	0.125	21.04	0.127
1.4	16QAM	1	3	20.95	0.124	21.00	0.126	21.11	0.129
1.4	16QAM	1	5	20.97	0.125	20.98	0.125	21.06	0.128
1.4	16QAM	3	0	19.62	0.092	19.68	0.093	19.56	0.090
1.4	16QAM	3	1	19.63	0.092	19.73	0.094	19.68	0.093
1.4	16QAM	3	3	19.49	0.089	19.60	0.091	19.69	0.093
1.4	16QAM	6	0	19.58	0.091	19.65	0.092	19.63	0.092
1.4	64QAM	1	0	20.92	0.124	20.77	0.119	20.98	0.125
1.4	64QAM	1	3	20.80	0.120	20.55	0.114	20.93	0.124
1.4	64QAM	1	5	20.81	0.121	20.52	0.113	20.94	0.124
1.4	64QAM	3	0	19.64	0.092	19.56	0.090	19.68	0.093
1.4	64QAM	3	1	19.52	0.090	19.67	0.093	19.60	0.091
1.4	64QAM	3	3	19.57	0.091	19.63	0.092	19.67	0.093
1.4	64QAM	6	0	19.57	0.091	19.49	0.089	19.66	0.092

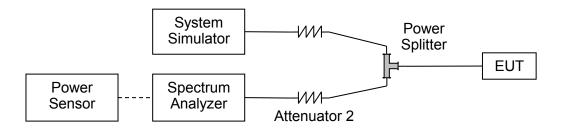


# 2.2. Occupied Bandwidth

### 2.2.1. Requirement

According to FCC section 2.1049, 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



The EUTis 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.

# 2.2.3. Test procedure

KDB 971168 D01v03 Section 4.1 and ANSI/TIA-603-E-2016.



# 2.2.4. Test Result

LTE	BW(MHz)	Channel	Channel	Frequenc	Modulatio	99% BW	26dB BW
Band		Level		у	n	(MHz)	(MHz)
				(MHz)			
18	5	Low	23875	817.5	QPSK	4.5	4.95
18	5	Low	23875	817.5	16QAM	4.5	4.95
18	5	Low	23875	817.5	64QAM	4.5	4.95
18	5	Mid	23925	822.5	QPSK	4.5	4.95
18	5	Mid	23925	822.5	16QAM	4.51	4.97
18	5	Mid	23925	822.5	64QAM	4.51	4.97
18	5	High	23975	827.5	QPSK	4.5	4.98
18	5	High	23975	827.5	16QAM	4.5	4.94
18	5	High	23975	827.5	64QAM	4.5	4.94
18	10	Low	23900	820	QPSK	8.99	9.81
18	10	Low	23900	820	16QAM	8.97	9.76
18	10	Low	23900	820	64QAM	8.97	9.76
18	10	Mid	23925	822.5	QPSK	8.98	9.83
18	10	Mid	23925	822.5	16QAM	8.96	9.79
18	10	Mid	23925	822.5	64QAM	8.96	9.79
18	10	High	23950	825	QPSK	8.99	9.76
18	10	High	23950	825	16QAM	8.97	9.76
18	10	High	23950	825	64QAM	8.97	9.76
18	15	Mid	23925	822.5	QPSK	13.44	14.57
18	15	Mid	23925	822.5	16QAM	13.44	14.57
18	15	Mid	23925	822.5	64QAM	13.44	14.57

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LTE	BW(MHz)	Channel	Channel	Frequenc	Modulatio	99% BW	26dB BW
Band		Level		у	n	(MHz)	(MHz)
				(MHz)			
26	1.4	Low	26697	814.7	QPSK	1.09	1.24
26	1.4	Low	26697	814.7	16QAM	1.09	1.24
26	1.4	Low	26697	814.7	64QAM	1.09	1.24
26	1.4	Mid	26740	819	QPSK	1.09	1.24
26	1.4	Mid	26740	819	16QAM	1.09	1.23
26	1.4	Mid	26740	819	64QAM	1.09	1.23
26	1.4	High	26783	823.3	QPSK	1.09	1.23
26	1.4	High	26783	823.3	16QAM	1.09	1.23
26	1.4	High	26783	823.3	64QAM	1.09	1.22
26	3	Low	26705	815.5	QPSK	2.68	2.92
26	3	Low	26705	815.5	16QAM	2.68	2.91
26	3	Low	26705	815.5	64QAM	2.69	2.91
26	3	Mid	26740	819	QPSK	2.92	2.92
26	3	Mid	26740	819	16QAM	2.68	2.92
26	3	Mid	26740	819	64QAM	2.69	2.91
26	3	High	26775	822.5	QPSK	2.68	2.93
26	3	High	26775	822.5	16QAM	2.68	2.94
26	3	High	26775	822.5	64QAM	2.69	2.91
26	5	Low	26715	816.5	QPSK	4.47	4.83
26	5	Low	26715	816.5	16QAM	4.46	4.78
26	5	Low	26715	816.5	64QAM	4.46	4.77
26	5	Mid	26740	819	QPSK	4.46	4.82
26	5	Mid	26740	819	16QAM	4.47	4.77
26	5	Mid	26740	819	64QAM	4.47	4.77
26	5	High	26765	821.5	QPSK	4.47	4.81
26	5	High	26765	821.5	16QAM	4.45	4.75
26	5	High	26765	821.5	64QAM	4.47	4.75
26	10	Mid	26740	819	QPSK	8.92	9.38
26	10	Mid	26740	819	16QAM	8.91	9.27
26	10	Mid	26740	819	64QAM	8.92	9.47

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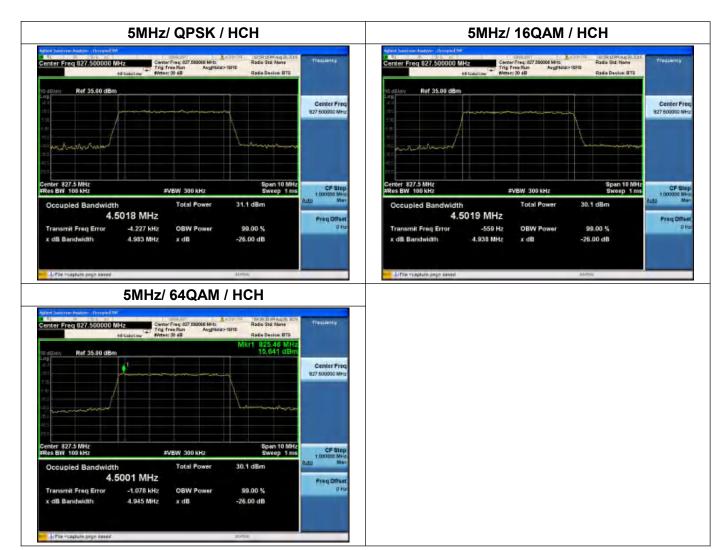
Kehu-Morlab Test Laboratory

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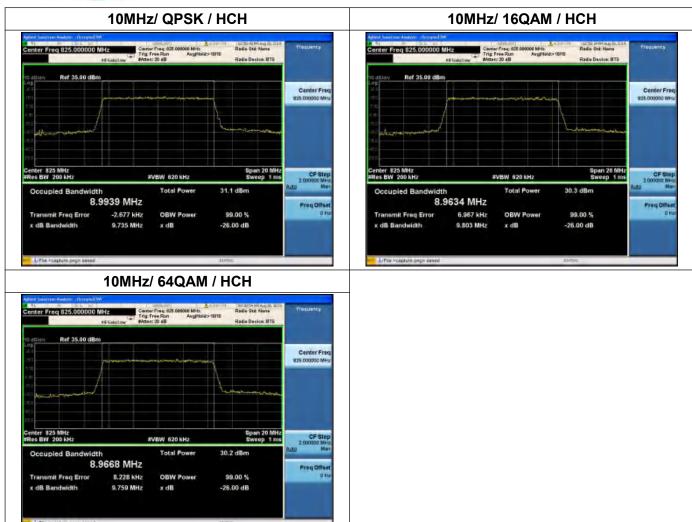
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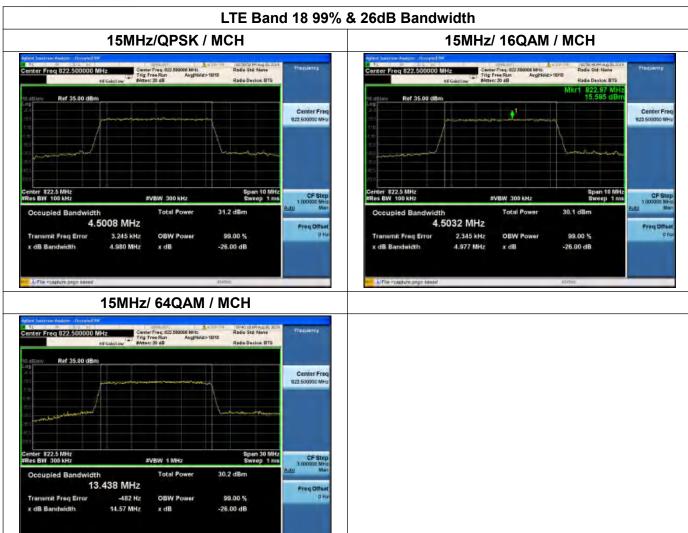
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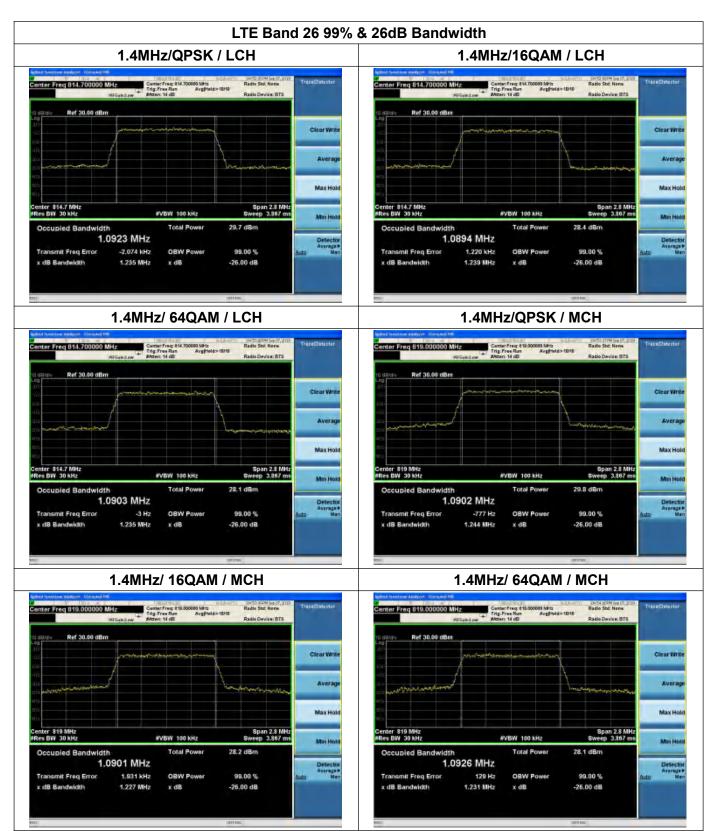












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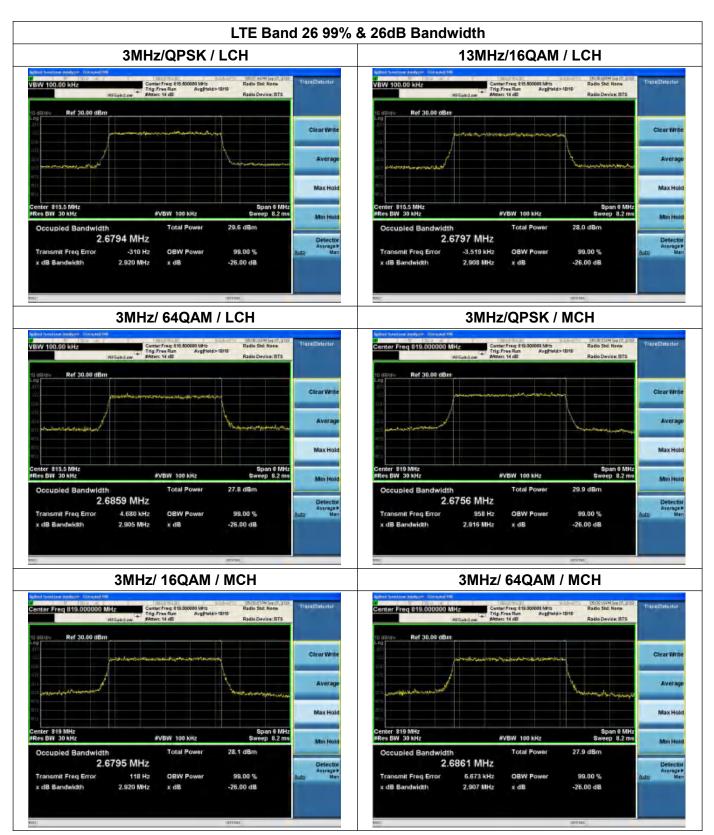
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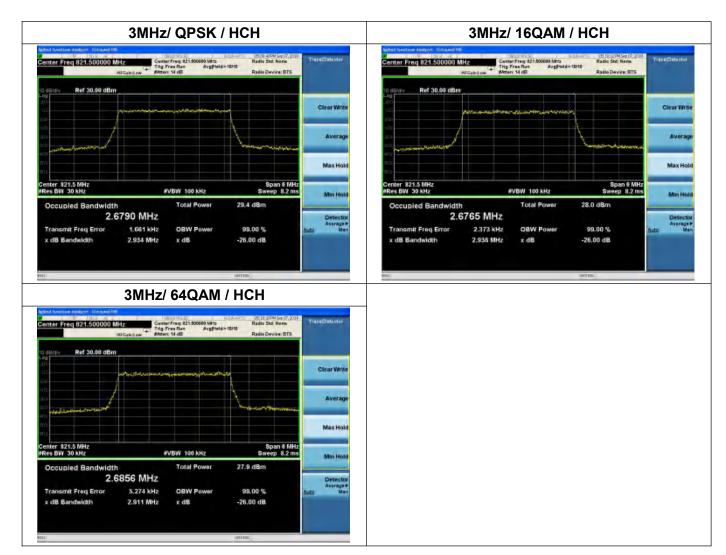




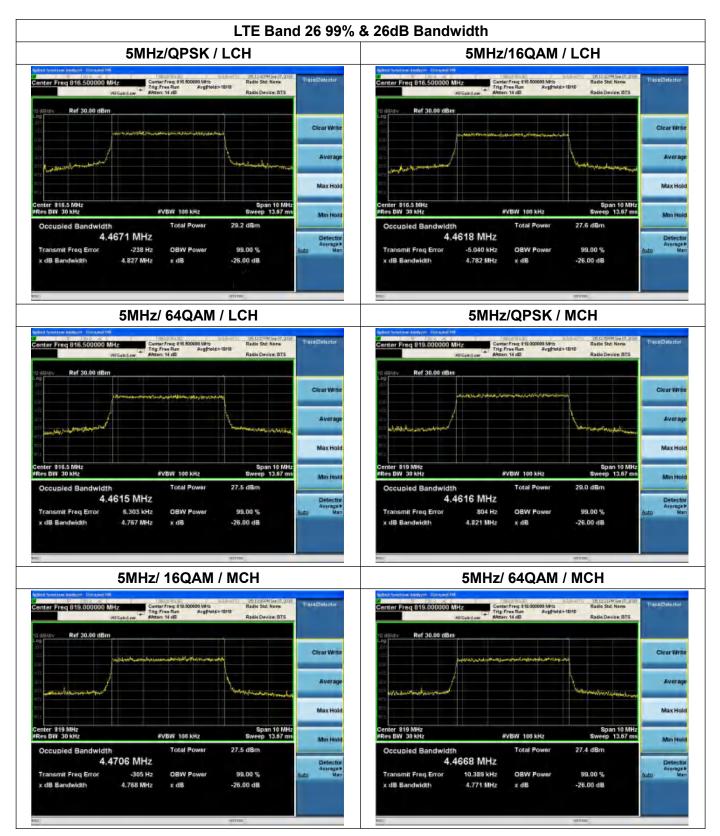






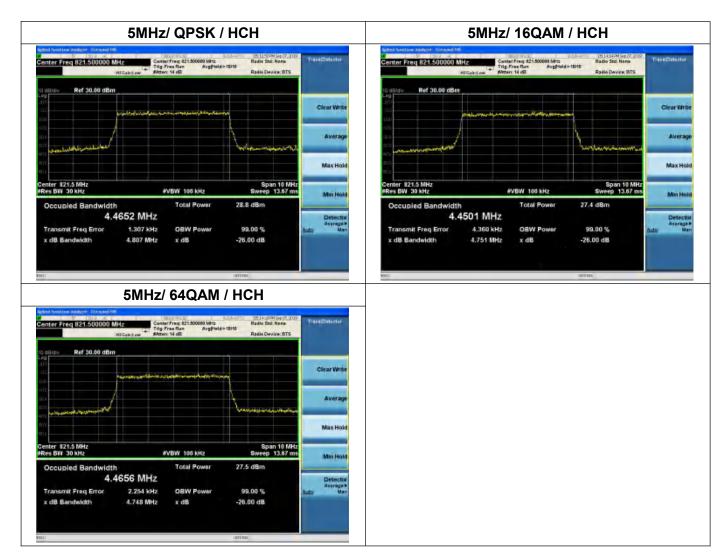




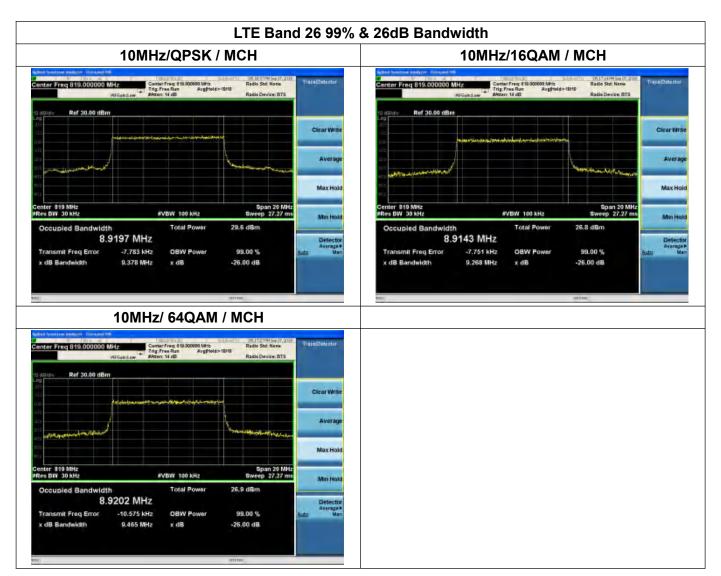


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# 2.3. Frequency Stability

### 2.3.1. Requirement

According to FCC section 2.1055 & 90.213, 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 -10°C to +45°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.



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.

### 2.3.3. Test procedure

KDB 971168 D01v03 Section 9.0 and ANSI/TIA-603-E-2016.

### 2.3.4. Test Result

The nominal, highest and lowest extreme voltages are separately 3.8VDC, 4.35VDC and 3.5VDC, which are specified by the applicant; the normal temperature here used is 20°C.



	LTE Band 18, QPSK, Channel 23925, Frequency 822.5MHz Limit =Within Authorized Band								
Voltage(%)	Power(VDC)	Temp(°C)	Fre. Dev.(Hz)	Deviation (ppm)	Result				
100		+20(Ref)	33	0.014					
100		-20	-61	-0.026					
100		-10	64	0.028					
100		0	55	0.024					
100	3.82	+10	29	0.013					
100	7	+20	55	0.024	PASS				
100		+30	-65	-0.028					
100	7	+40	-73	-0.032					
100		+45	53	0.023					
115	4.4	+20	55	0.024					
85	3.3	+20	33	0.014					

LTE Band 26, QPSK, Channel 26740, Frequency 819.0MHz									
Limit =Within Authorized Band									
Voltage(%)	Power(VDC)	Temp(°C)	Fre.	Deviation	Result				
voitage( /₀)	Power(vbc)		Dev.(Hz)	(ppm)	Result				
100		+20(Ref)	21	0.025					
100		-20	74	0.089					
100		-10	-32	-0.038					
100		0	-15	-0.018					
100	3.82	+10	-36	-0.043					
100		+20	-28	-0.034	PASS				
100		+30	-36	-0.043					
100		+40	65	0.078					
100		+45	13	0.016					
115	4.4	+20	53	0.064					
85	3.3	+20	21	0.025					



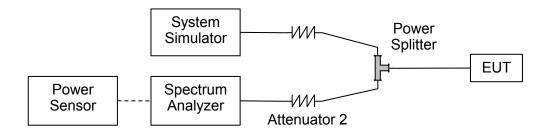
# 2.4. Peak to Average Radio

### 2.4.1. Requirement

According to FCC section 24.232(d), the peak to average ratio (PAR) of the transmission may not exceed 13dB.

## 2.4.2. Test Description

### A. Test Set:



The EUTis 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.

### 2.4.3. Test procedure

KDB 971168 D01v03 Section 5.7 and ANSI/TIA-603-E-2016.

### 2.4.4. Test Result

Record the maximum PAPR level associated with a probability of 0.1%.

Note: PART 90 sections are none of the result



# 2.5. Conducted Spurious Emissions

### 2.5.1. Requirement

According to FCC section 2.1051, the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43+10\*log(P)dB. This calculated to be -13dBm.

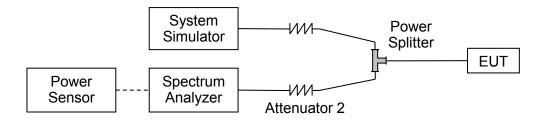
Additional requirement for LTE Band 7/38/41:

The power of any emission outside of the authorized operating frequency ranges must beattenuated below the transmitting power (P) by a factor of at least 55 + 10 log(P) dB. This calculated to be -25dBm.

Additional requirement for LTE Band 30/40:

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least 70 + 10 log (P) dB. This calculated to be -40dBm.

# 2.5.2. Test Description



The EUTis 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.

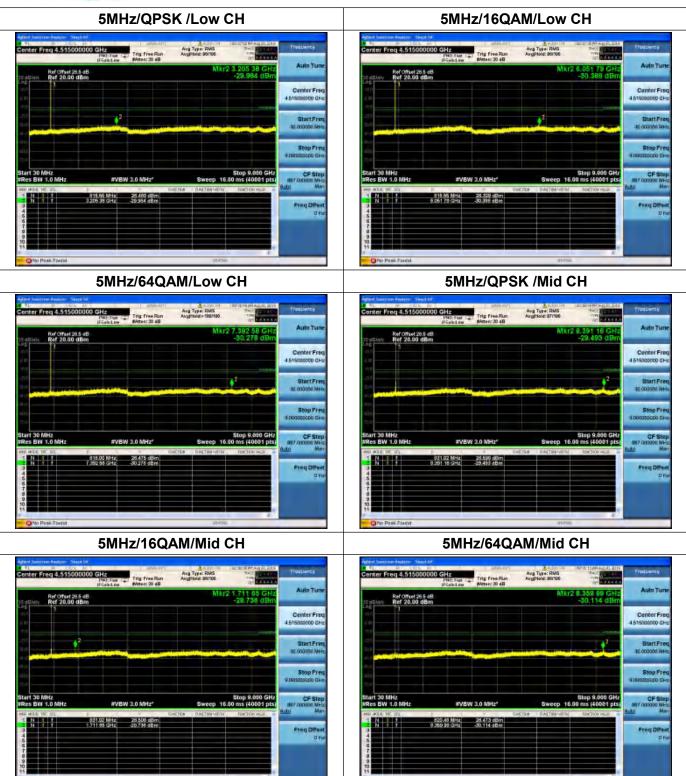
### 2.5.3. Test procedure

KDB 971168 D01v03 Section 6.0 and ANSI/TIA-603-E-2016.

### 2.5.4. Test Result

LTE Band 18 CSE



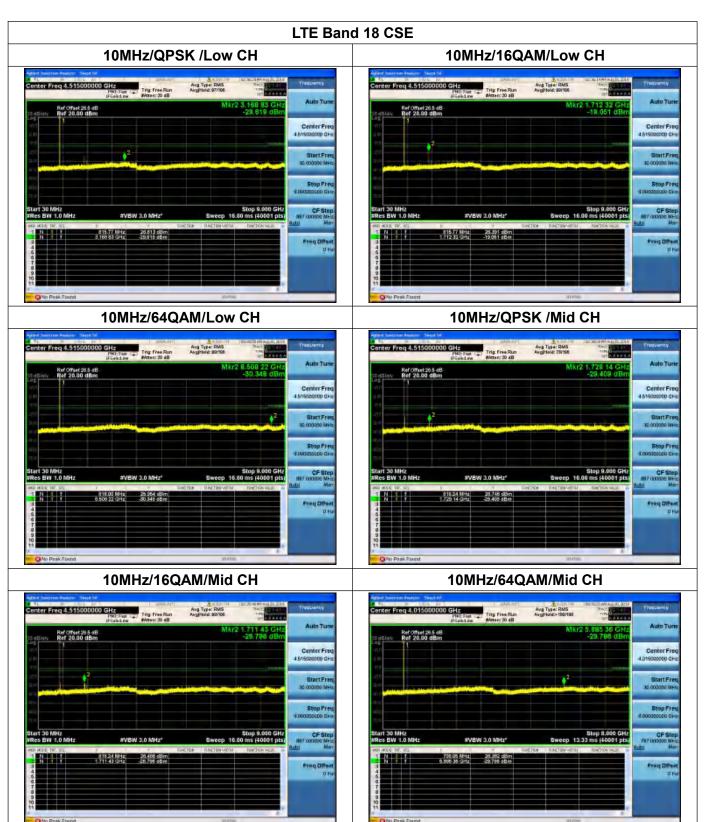






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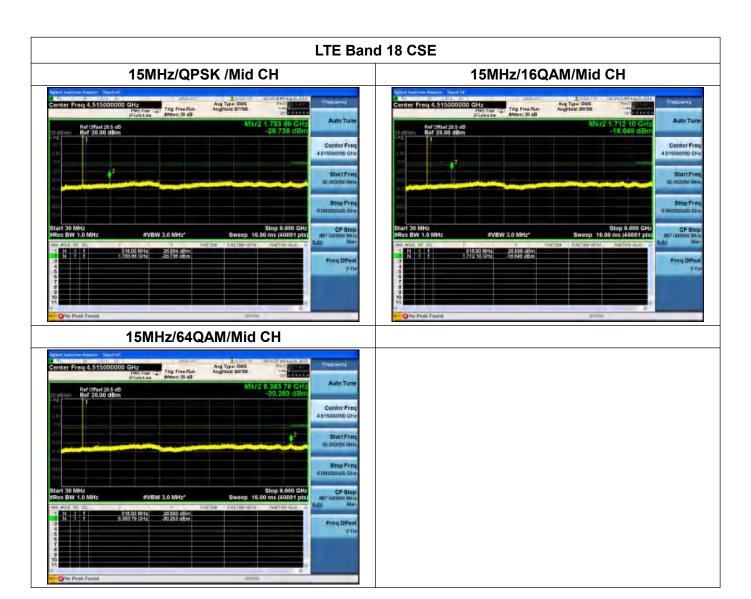
Kehu-Morlab Test Laboratory Tel: +86 592 5612050

**XIAMEN MORLAB COMMUNICATIONS TECHNOLOGY Co., Ltd.**Unit 101, No.1732 Gangzhong Road, Xiamen Area, Pilot Free Trade Zone (Fujian), P. R. China

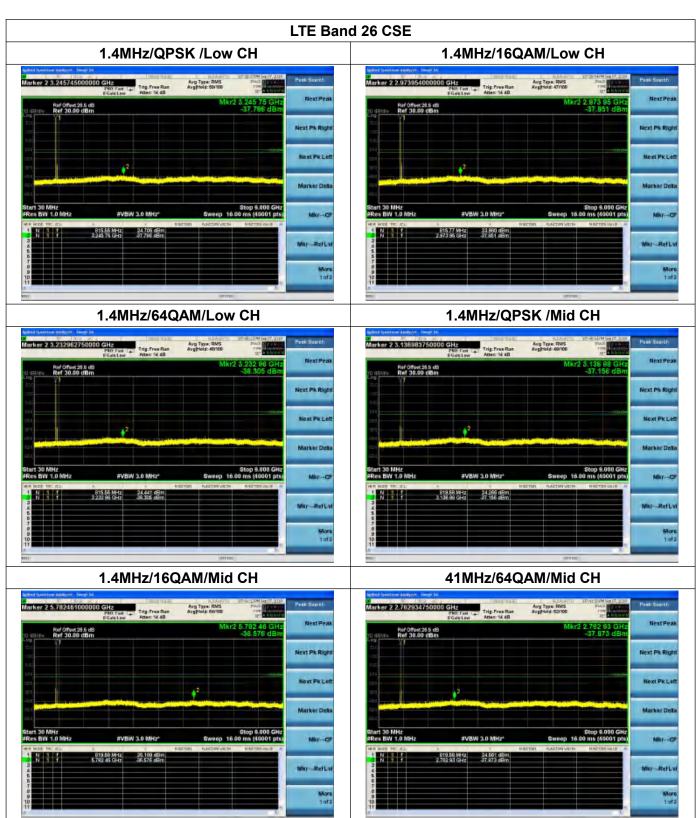


# LTE Band 18 CSE 10MHz/QPSK /High CH 10MHz/16QAM/High CH



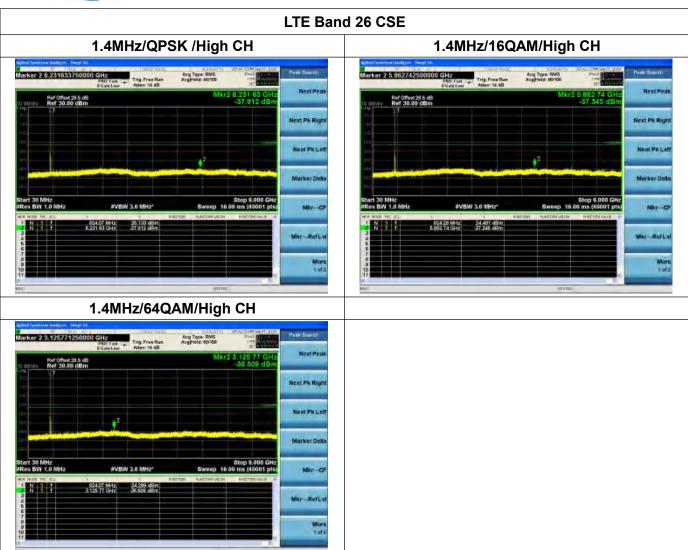




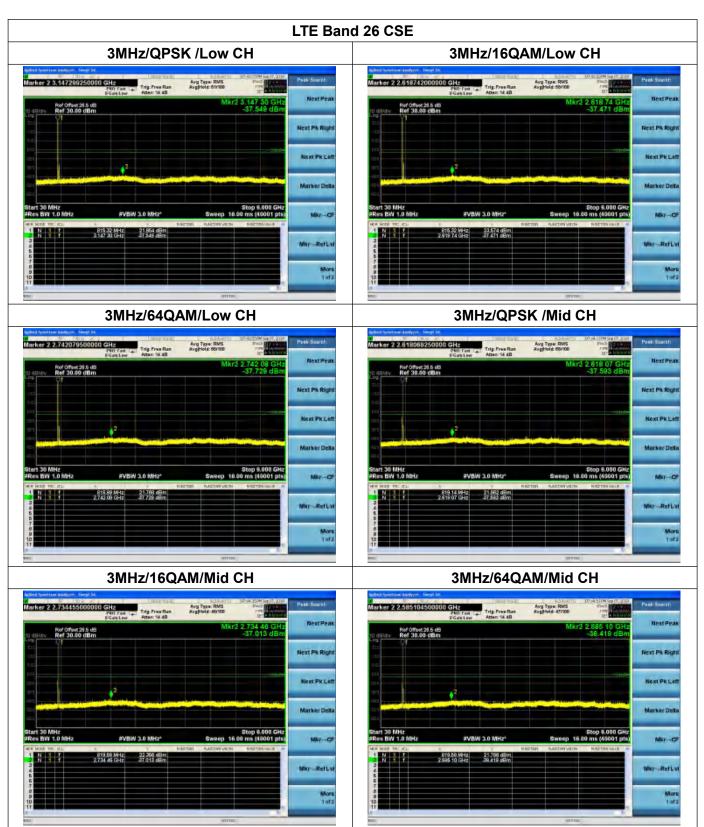


Kehu-Morlab Test Laboratory Tel: +86 592 5612050







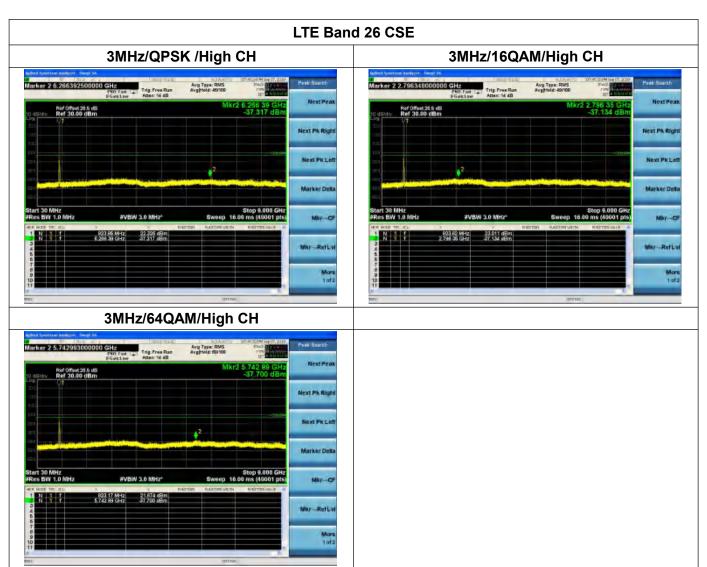


Kehu-Morlab **Test Laboratory** 

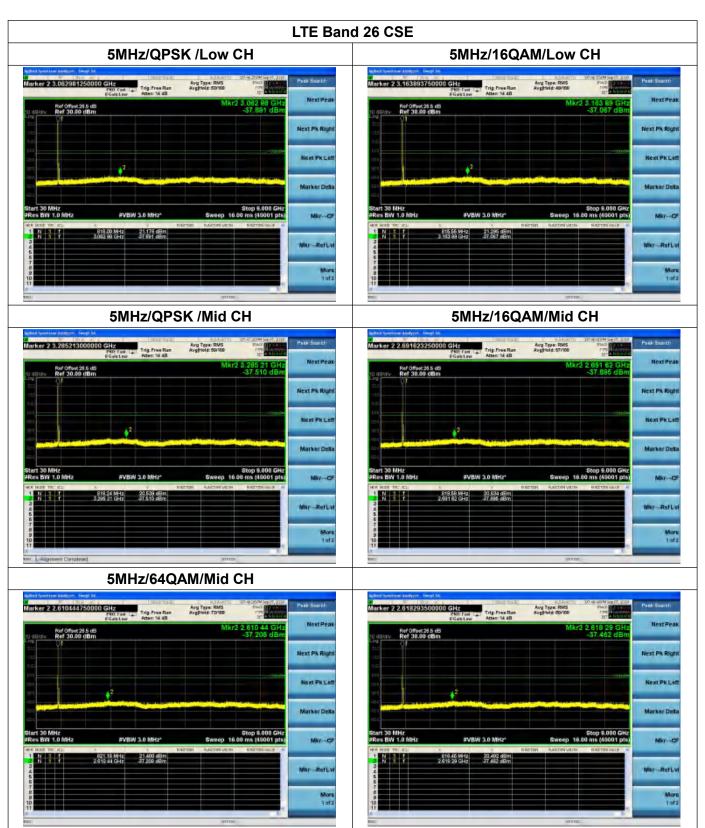
Tel: +86 592 5612050 XIAMEN MORLAB COMMUNICATIONS TECHNOLOGY Co., Ltd. Unit 101, No.1732 Gangzhong Road, Xiamen Area, Pilot Free Trade Zone (Fujian), P. R. China

Fax: +86 592 5612095

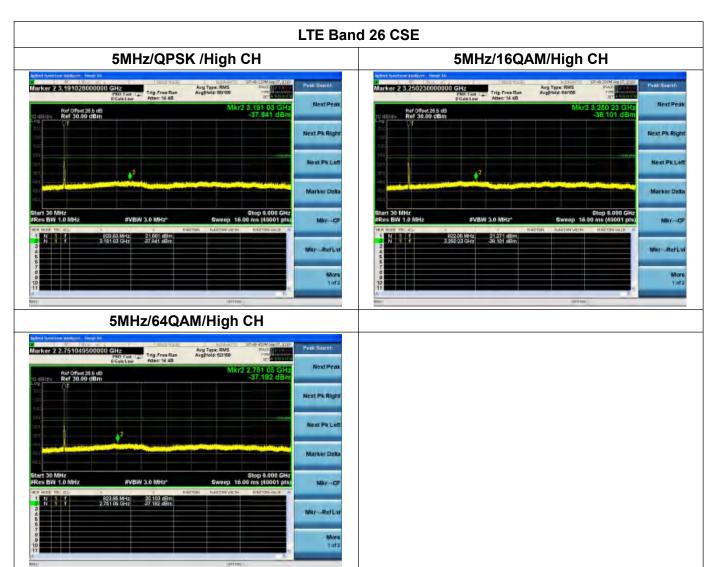




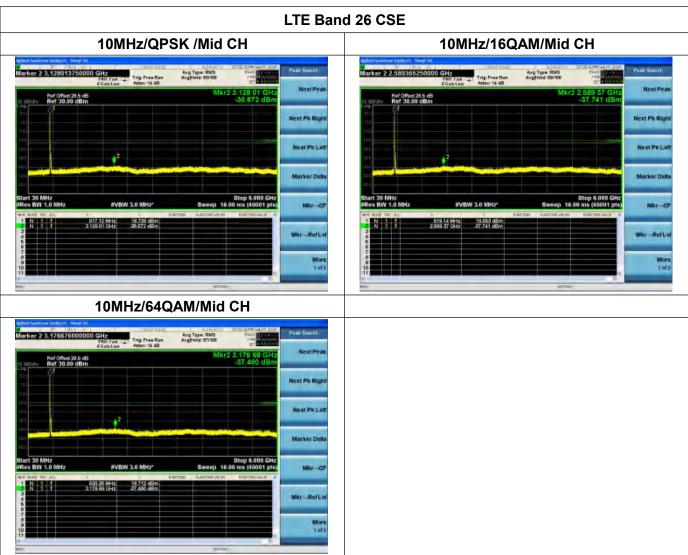














# 2.6. Band Edge

### 2.6.1. Requirement

According to FCC section 90.961, The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

2.6.2.	Test Description			
			 	_

The EUTis 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.

### 2.6.3. Test procedure

KDB 971168 D01v03 Section 6.0 and ANSI/TIA-603-E-2016.



### 2.6.4. Test Result

The center frequency of spectrum is the band edge frequency and span is 2MHz, Record the max trace into the test report.

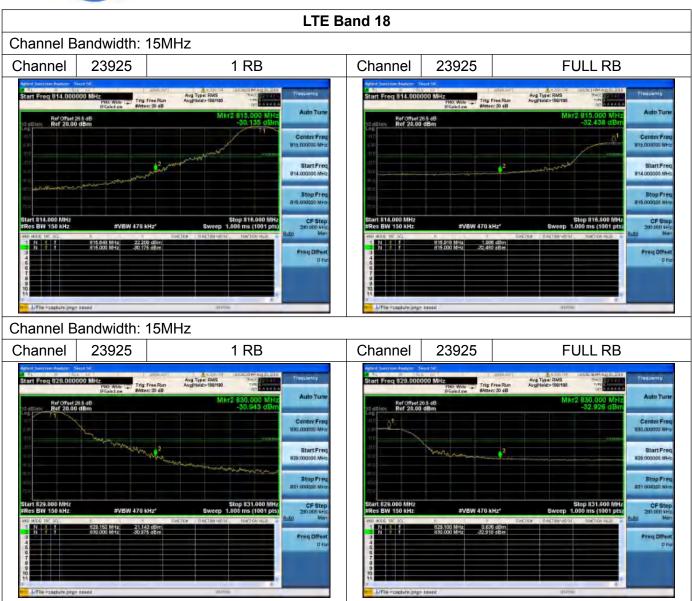


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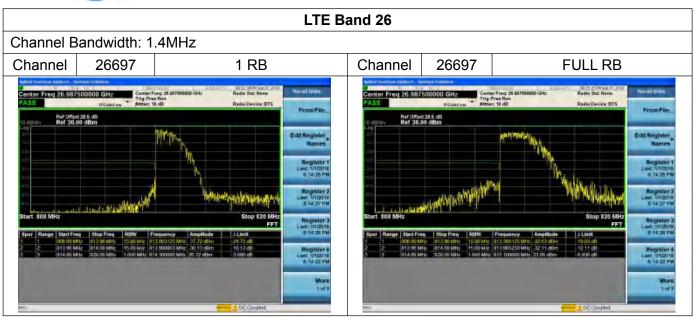


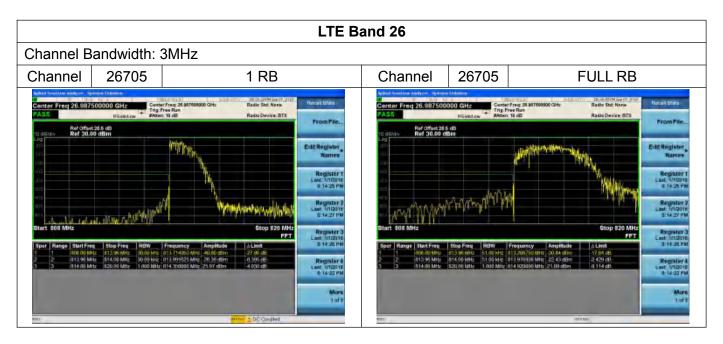




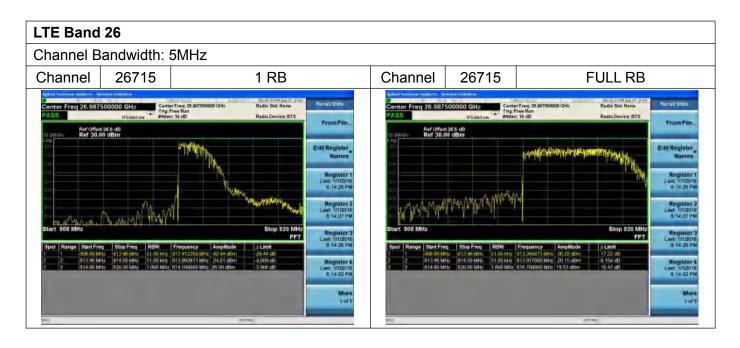


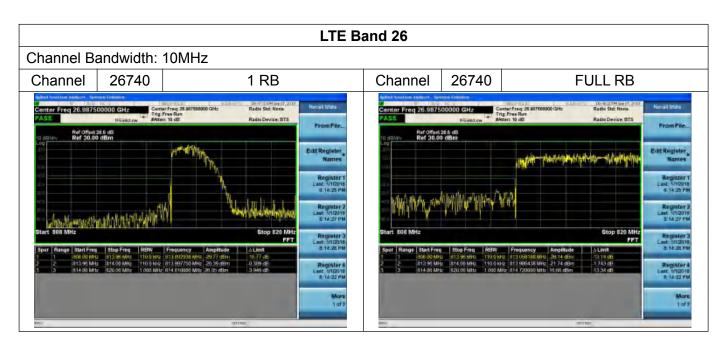














# 2.7. Radiated Spurious Emissions

### 2.7.1. Requirement

According to FCC section 2.1051, the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43+10\*log(P)dB. This calculated to be -13dBm.

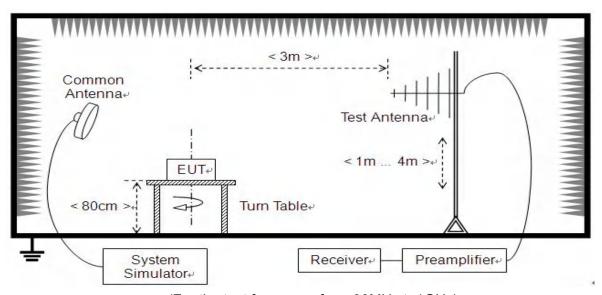
Additional requirement for LTE Band 7 / 38 / 41:

The power of any emission outside of the authorized operating frequency ranges must beattenuated below the transmitting power (P) by a factor of at least 55 + 10 log(P) dB. This calculated to be -25dBm.

Additional requirement for LTE Band 30 / 40:

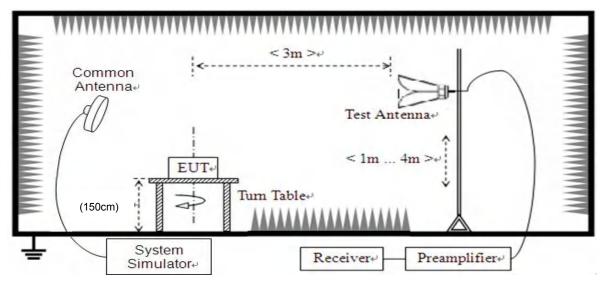
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least 70 + 10 log (P) dB. This calculated to be -40dBm.

### 2.7.2. Test Description



(For the test frequency from 30MHz to1GHz)





(For the test frequency above 1GHz)

The EUTis located in a 3m Full-Anechoic Chamber, the cable loss, air loss and so on of the site as factors are pre-calibrated using the "Substitution" method, and calculated to correct the reading. A call is established between the EUT and the SS via a Common Antenna. The EUT is commanded by the SS to operate at the maximum and minimum output power, and only the test

In the frequency range above 30MHz, Bi-Log Test Antenna (30MHz to 1GHz) and Horn Test Antenna (above 1GHz) are used. Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground and the Turn Table is actuated to turn from 0° to 360° to determine the maximum value of the radiated power. The emission levels at both horizontal and vertical polarizations should be tested. The Filters consists of Notch Filters and High Pass Filter.

**Note:** when doing measurements above 1GHz, the EUT has been within the 3dB cone width of the horn antenna during horizontal antenna.

#### 2.7.3. Test procedure

KDB 971168 D01v03 Section 5.8 and ANSI/TIA-603-E-2016.

result of the maximum output power was recorded.



2.7.4. Test Result

# REPORT No.: XM19090076W01

The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. Test Antenna height is varied from 1m to 4m above the ground, and the Turn Table is actuated to turn from 0° to 360°, both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented.

The substitution corrections are obtained as described below:

 $A_{SUBST} = P_{SUBST\_TX} - P_{SUBST\_RX} - L_{SUBST\_CABLES} + G_{SUBST\_TX\_ANT}$ 

 $A_{TOT} = L_{CABLES} + A_{SUBST}$ 

Where A<sub>SUBST</sub> is the final substitution correction including receive antenna gain.

P<sub>SUBST TX</sub> is signal generator level,

P<sub>SUBST RX</sub> is receiver level,

L<sub>SUBST CABLES</sub> is cable losses including TX cable,

G<sub>SUBST\_TX\_ANT</sub> is substitution antenna gain.

A<sub>TOT</sub> is total correction factor including cable loss and substitution correction

During the test, the data of  $A_{TOT}$  was added in the Test Spectrum Analyze, so Spectrum Analyze reading is the final values which contain the data of  $A_{TOT}$ .

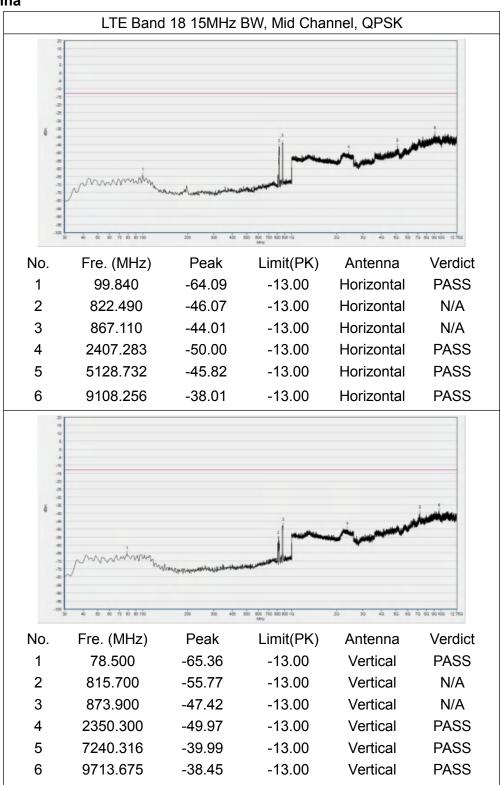
**Note1:** The power of the EUT transmitting frequency should be ignored.

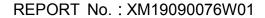
**Note2:** All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

**Note3:** All bandwidth and modulationwere considered and evaluated respectively by performing full test for each band, only the worst cases (Max Bandwidth and QPSK mode) were recorded in this test report.

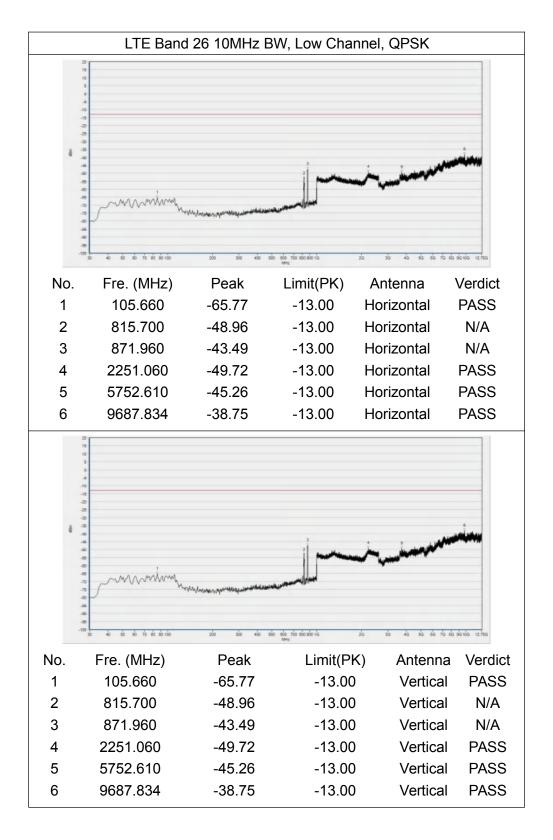


### **Top Antenna**



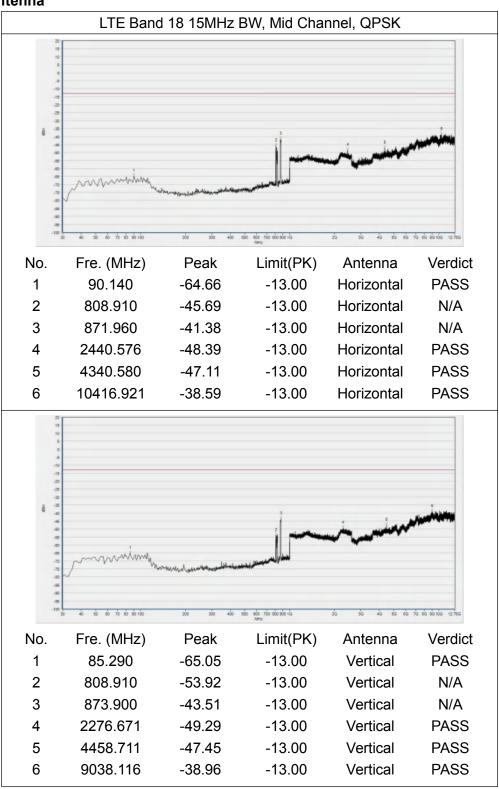






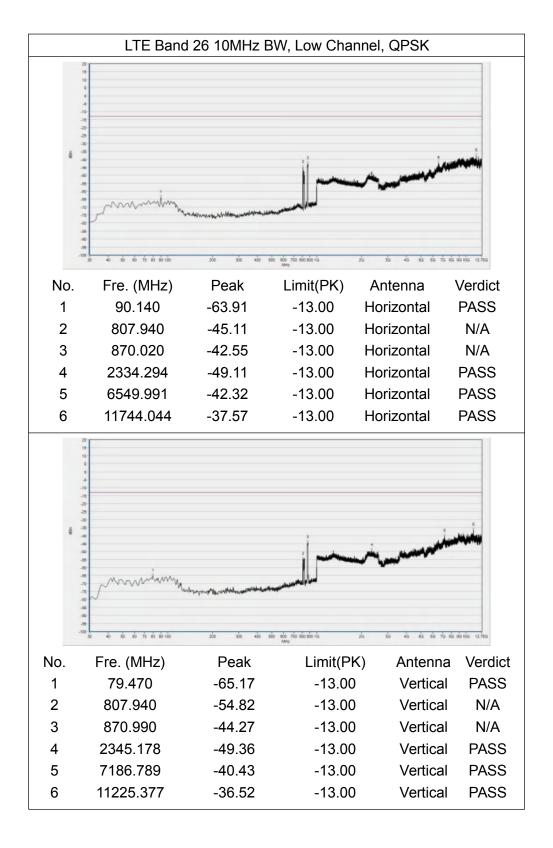


#### **Bottom Antenna**











# **Annex A Test Uncertainty**

Where relevant, the following measurement uncertainty levels have been estimated for test performed on the EUT as specified in CISPR 16-1-2:

Test items	Uncertainty
Output Power	±2.22 dB
Bandwidth	±5%
Conducted Spurious Emission	±2.77 dB
Band Edge	±2.77 dB
Equivalent Isotropic Radiated Power	±2.22 dB
Radiated Spurious Emissions	±6 dB

This uncertainty represent an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2



# **Annex B Testing Laboratory Information**

## 1. Identification of the Responsible Testing Laboratory

Laboratory Name:	XIAMEN MORLAB COMMUNICATIONS TECHNOLOGY Co., Ltd.			
	Kehu-Morlab Test Laboratory			
Laboratory Address:	Unit 101, No.1732 Gangzhong Road, Xiamen Area, Pilot Free Trade			
	Zone (Fujian) China			
Telephone:	+86 592 5612050			
Facsimile:	+86 592 5612095			

## 2. Identification of the Responsible Testing Location

	XIAMEN MORLAB COMMUNICATIONS TECHNOLOGY				
Name:	Co., Ltd.				
	Kehu-Morlab Test Laboratory				
Address	Unit 101, No.1732 Gangzhong Road, Xiamen Area, Pilot Free				
Address:	Trade Zone (Fujian) China				



## 4. Test Equipments Utilized

# **4.1 Conducted Test Equipments**

<b>Equipment Name</b>	Serial No.	Type	Manufacturer	Cal. Date	Cal. Due
Power Splitter	NW521	1506A	Weinschel	2019.04.17	2020.04.16
Attenuator 1	(N/A.)	10dB	Resnet	2019.04.17	2020.04.16
Attenuator 2	(N/A.)	3dB	Resnet	2019.04.17	2020.04.16
EXA Signal Analzyer	MY53470836	N9010A	Agilent	2018.11.06	2019.11.05
USB Power Sensor	MY54210011	U2021XA	Agilent	2019.04.17	2020.04.16
System Simulator	152038	CMW500	R&S	2019.05.08	2020.05.07
RF cable (30MHz-26GHz)	CB01	RF01	Morlab	N/A	N/A
Coaxial cable	CB02	RF02	Morlab	N/A	N/A
SMA connector	CN01	RF03	HUBER-SUHNER	2019.04.17	2020.04.16
Temperature Chamber	(N/A)	HUT705P	CHONGQING HANBA EXPERIMENTAL EQUIPMENT CO.,LTD	2019.04.17	2020.04.16
Computer	T430i	Think Pad	Lenovo	N/A	N/A



## **4.2 Radiated Test Equipments**

Equipment Name	Serial No.	Туре	Manufacturer	Cal. Date	Cal.Due
System Simulator	152038	CMW500	R&S	2019.05.08	2020.05.07
Receiver	MY54130016	N9038A	Agilent	2019.05.18	2020.05.17
Test Antenna - Bi-Log	9163-519	VULB 9163	Schwarzbeck	2019.05.18	2020.05.17
Test Antenna - Horn	9170C-531	BBHA9170	Schwarzbeck	2019.08.06	2020.08.05
Test Antenna - Horn	01774	BBHA 9120D	Schwarzbeck	2019.08.02	2020.08.01
Coaxial cable (N male) (9KHz-30MHz)	CB04	EMC04	Morlab	N/A	N/A
Coaxial cable (N male) (30MHz-26GHz)	CB02	EMC02	Morlab	N/A	N/A
Coaxial cable(N male) (30MHz-26GHz)	CB03	EMC03	Morlab	N/A	N/A
1-18GHz pre-Amplifier	MA02	TS-PR18	Rohde& Schwarz	2019.05.08	2020.05.07
18-26.5GHz pre-Amplifier	MA03	TS-PR18	Rohde& Schwarz	2019.05.08	2020.05.07
Notch Filter	N/A	WRCGV -LTE B2	Wainwright	2018.12.01	2019.11.30
Notch Filter	N/A	WRCGV -LTE B4	Wainwright	2018.12.01	2019.11.30
Notch Filter	N/A	WRCGV -LTE B5	Wainwright	2018.12.01	2019.11.30
Notch Filter	N/A	WRCGV -LTE B7	Wainwright	2018.12.01	2019.11.30
Notch Filter	N/A	WRCGV -LTE B12	Wainwright	2018.12.01	2019.11.30
Notch Filter	N/A	WRCGV -LTE B17	Wainwright	2018.12.01	2019.11.30
Notch Filter	N/A	WRCGV -LTE B19	Wainwright	2018.12.01	2019.11.30



Equipment Name	Serial No.	Туре	Manufacturer	Cal. Date	Cal.Due
Notch Filter	N/A	WRCGV -LTE B25	Wainwright	2018.12.01	2019.11.30
Notch Filter	N/A	WRCGV -LTE B26	Wainwright	2018.12.01	2019.11.30
Notch Filter	N/A	WRCGV -LTE B30	Wainwright	2018.12.01	2019.11.30
Notch Filter	N/A	WRCGV -LTE 38	Wainwright	2018.12.01	2019.11.30
Notch Filter	N/A	WRCGV -LTE B40	Wainwright	2018.12.01	2019.11.30
Notch Filter	N/A	WRCGV -LTE B41	Wainwright	2018.12.01	2019.11.30
Anechoic Chamber	N/A	9m*6m*6m	CRT	2017.11.19	2020.11.18

END OF REPORT	
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