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# Report On

FCC Testing of the Motorola Solutions LXN 500 LTE Band 14 Base Station In accordance with FCC CFR 47 Part 2 and FCC CFR 47 Part 90

COMMERCIAL-IN-CONFIDENCE

FCC ID: AZ492FT7102

PREPARED BY

Simon Bennett Senior Engineer APPROVED BY

Matthew Russell Authorised Signatory DATED

02 November 2017

Document 75939219 Report 01 Issue 5

November 2017



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**SECTION 1** 

# **REPORT INFORMATION**



# 1.1 **REPORT DETAILS**

Manufacturer	Motorola Solutions Israel Ltd.
Address	2 Hanegev St. Airport City Israel 70199
Product Name	LXN 500
Product Number	SQM01SUM0309A
FCC ID	AZ492FT7102
Serial Number(s)	569REG0001
Software Version	1.0.0
Hardware Version	1.0.0
Test Specification/Issue/Date	FCC CFR 47 Part 2: 2016 FCC CFR 47 Part 90: 2016
Start of Test	28 June 2017
Finish of Test	11 July 2017
Name of Engineer(s)	Mohamed Toubella Simon Bennett Graeme Lawler
Related Document(s)	KDB 971168 D01 v02r02 KDB 662911 D01 v02r01

#### ENGINEERING STATEMENT

The measurements shown in this report were made in accordance with the procedures described on test pages. All reported testing was carried out on a sample equipment to demonstrate limited compliance with FCC 47 CFR Part 2 and FCC 47 CFR Part 90. The sample tested was found to comply with the requirements defined in the applied rules.

um

Mohamed Toubella

Manual Simon Bennett

Alawlar

Graeme Lawler

This report has been up-issued, to Issue 5 to add FCC designation number UK0010



# 1.2 BRIEF SUMMARY OF RESULTS

A brief summary of results for each configuration, in accordance with FCC CFR 47 Part 2 and FCC CFR 47 Part 90 is shown below.

	Specificat	tion Clause	Test Description	Result
Section	FCC CFR 47 Part 2	FCC CFR 47 Part 90		
2.1	2.1046	90.542	Maximum Peak Output Power and Peak to Average Ratio - Conducted	Pass
2.2	2.1049	-	Occupied Bandwidth	Pass
2.3	2.1051	90.543(e)	Band Edge	Pass
2.4	2.1051	90.543(e)(f)	Transmitter Conducted Spurious Emissions	Pass
2.5	2.1055	90.539(d)	Frequency Stability	Pass
2.6	2.1047	-	Modulation Characteristics	Pass
2.7	2.1051	90.543(e)(f)	Transmitter Radiated Spurious Emissions	Pass



## 1.3 CONFIGURATION DESCRIPTION

The settings below were deemed representative for all traffic scenarios when settings with different modulations, channel bandwidths, number of carriers and RF configurations has been tested to find the worst case setting. The settings below were used for all measurements if not otherwise noted:

LTE:

MIMO mode single carrier: E-TM1.1, E-TM3.2, E-TM3.1 MIMO mode multi carrier (x2): E-TM1.1

The complete testing was performed with the EUT transmiting at maximum RF power unless otherwise stated.

The EUT consists of 2 antenna ports. All measurements were performed on both Antenna ports, (A & B).

Pre-test results were used to establish the worst case configuration of the EUT for Frequency Stability. It was established that QPSK – 10 MHz was the worst case for Frequency Stability measurements. As the EUT can be powered by a DC supply, measurements were also conducted at voltage extremes at 20  $^{\circ}$ C.

The LXN 500 supports LTE Band 14 – 758 – 768 MHz, (downlink) and 788 – 798 MHz, (uplink), frequency bands.

Test Models as defined in 3GPP TS 25.141 and TS 36.141 were used to represent the required modulation for test.

The EUT was powered by an external 120 V AC 60 Hz Supply which provided power to the EUT.

**Channel Configurations** 

LTE B14 (758 MHz - 768 MHz)

Configuration	DAT	No. of	Carrier Bandwidth	Carrier	Frequency Configuration	n (MHz)
Configuration	ration RAT Carriers	(MHz)	Bottom (BRFBW)	Middle (MRFBW)	Top (TRFBW)	
1	LTE	1	5	760.5	763	765.5
1	LTE	1	10	-	763	-



# 1.4 APPLICATION FORM

EQUIPMENT DESCRIPTION						
Model Name/Number	LXN 500 E	LXN 500 B14				
Part Number	SQM01SUM0309A					
Hardware Version	rdware Version 1.0.0					
Software Version	ware Version 1.0.0					
FCC ID (if applicable)		AZ492FT7102				
Industry Canada ID (if applicable)						
Technical Description (Please provide description of the intended use of the equ		The LXN 500 is an Ultra Deployable LTE System designed for on-demand coverage and public safety applications.				
		The solution consists of a single portable unit that can be operated from a vehicle or carried by a person,mounted and operated at any location				

	INTENTIONAL RADIATORS									
Technology	Frequency Declared Band Output		Antenna Gain		Modulation	ITU Emission	Test Channels (MHz)			
recinition	(MHz) Pov	Power (dBm)	(dBi)	(MHz)	Scheme(s)	Designator	Bottom	Middle	Тор	
LTE	758-768	30	6	5,10	64QAM	10M0G7D	760.5	763	765.5	
Wi-Fi	2400-2500	tbc	10	5,20	OFDM	17M9GXW	2412	2442	2484	

UN-INTENTIONAL RADIATOR					
Highest frequency generated or used in the device or on which the device operates or tunes	2484 MHz				

Power Source					
40	Single Phase	Single Phase Three Phase		Nominal Voltage	
AC	Yes			110/240	
External DC	Nominal Voltage		Maximum Current		
External DC	9-33VDC		5A		
Detter/	Nominal Voltage		Batte	ery Operating End Point Voltage	
Battery	12-16.8v				
Can EUT transmit whilst being charged?			Yes 🛛 No 🗌		

EXTREME CONDITIONS					
Maximum temperature	60	°C	Minimum temperature	-20	°C



Ancil	laries
AIIUI	Idiies

Please list all ancillaries which will be used with the device.

NP12/NP24 NAV PAC (UPS)

2 x USB flash drives and associated cables

	ANTENNA CHARACTERISTICS						
$\square$	Antenna connector			State impedance	50	Ohm	
	Temporary antenna connector			State impedance		Ohm	
	Integral antenna	Туре					
$\bowtie$	External antenna	Туре	VLQ69273				

I hereby declare that the information supplied is correct and complete.

Name:Darragh McShanePosition held:Project ManagerDate: 07/06/2017



# 1.5 PRODUCT INFORMATION

#### 1.5.1 Technical Description

The Equipment Under Test (EUT) –is a Motorola LTE Ultra-Portable Infrastructure working in the public mobile service Band 14 which provides communication connections to Band 14 network. The EUT can operate from a 120 V 60 Hz AC, 12 or 24 V DC supply.

The Equipment Under Test (EUT) is shown in the photograph below. A full technical description can be found in the Manufacturer's documentation.



Front View



Rear View



# 1.5.2 Antenna and ancillaries for use with the LXN 500

Vehicle 4 port antenna and cables:

AN000226A01	Laird Combo antenna VLQ69273 (4 ports)
CB000613A01	Laird Combo LTE antenna VLQ69273 (4 ports) cable
CB000548A01	Laird Combo WiFi antenna VLQ69273 (4 ports) cable
CB000133A01	Laird Combo GPS antenna VLQ69273 (4 ports) cable

Vehicle 3 port antenna and cables:

AN000036A01	Laird combo antenna (3 ports) - Base
85013016001	Laird combo antenna (3 ports) - Whip
CB000613A01	Laird combo antenna (3 ports) LTE cable
CB000133A01	Laird combo antenna (3 ports) GPS cable
CB000548A01	Laird combo antenna (3 ports) WiFi cable

# Vehicle power cable

CB000540A01 Vehicle power cable
---------------------------------

Backpack antennas and cables

CB000541A01	Backpack power cable
BT000390A01	Battery, Ultralife UBBL13-01-CB
AN000250A01	Antenna - PCTEL (LTE)
CH0002	Charger
CB000544A01	LTE Antenna cable

# 1.5.3 Details of antennas for use with LXN 500

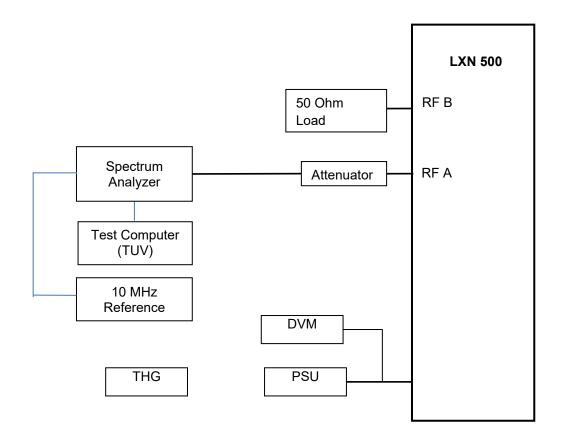
APP	Туре	LTE Freq (MHz)	Elec. length	Max Gain	cm	MOTOTOROLA p.n
Vehicle	3 port	LTE: 746 MHz -894MHz WiFi: 2400 MHz-2483 MHz	1/2 wave 1/4 wave	LTE:5 dBi Wifi:7 dBi	LTE mechanical length: 33cm WiFi radiated element : 60x50mm	AN000036A01+ 85013016001(Whip)
Vehicle/ In Building	4 port	LTE: 698-960 MHz , WiFi:2300-2700 MHz	1/4 wave 1/4 wave		LTE radiated element : 60x50mm WiFi radiated element : 25x45mm	AN000226A01*
Backpack	Dipole	698MHz-2400MHz	1/2 wave	LTE:6 dBi Wifi:10 dBi	LTE mechanical length : 28cm	AN000250A01(LTE), AN000226A01 (WiFi)

\*Antenna used during testing



# 1.6 TEST SETUP

# Conducted Testing Setup





#### 1.7 TEST CONDITIONS

For all tests the EUT was set up in accordance with the relevant test standard and to represent typical operating conditions. Tests were applied with the EUT situated in a shielded enclosure, test laboratories or a chamber as appropriate.

The EUT was powered from a 120 V 60 Hz AC supply.

FCC Accreditation 90987 Octagon House, Fareham Test Laboratory

Designation Number: UK0010

# 1.8 DEVIATION FROM THE STANDARD

No deviations from the applicable test standards or test plan were made during testing.

#### 1.9 MODIFICATION RECORD

All tests were performed in Modification State 0 – as supplied except for tests at -20 °C.

Modification State 1 – modifications to PA matching circuit to improve device linearity

## 1.10 TEST LOCATION

TÜV SÜD Product Service conducted the following tests at our Fareham Test Laboratory.

Test Name	Name of Engineer(s)
Maximum Peak Output Power and Peak to Average Ratio - Conducted	M Toubella
Occupied Bandwidth	M Toubella
Band Edge	M Toubella S Bennett
Transmitter Spurious Emissions	M Toubella S Bennett
Frequency Stability	M Toubella S Bennett
Modulation Characteristics	S Bennett

Office Address:

Octagon House Concorde Way Segensworth North Fareham Hampshire PO15 5RL United Kingdom



# 1.11 ADDITIONAL INFORMATION

Testing performed in the presence of Pat O'Halloran



**SECTION 2** 

**TEST DETAILS** 



## 2.1 MAXIMUM PEAK OUTPUT POWER AND PEAK TO AVERAGE RATIO - CONDUCTED

#### 2.1.1 Specification Reference

FCC CFR 47 Part 2, Clause 2.1046 FCC CFR 47 Part 90, Clause 90.542(a)(3)(6)

#### 2.1.2 Date of Test and Modification State

29 June 2017 - Modification State 0

#### 2.1.3 Test Equipment Used

The major items of test equipment used for the above tests are identified in Section 3.1.

#### 2.1.4 Environmental Conditions

Ambient Temperature22.5°CRelative Humidity55.2%

#### 2.1.5 Test Method

All measurements were made in accordance with FCC KDB 971168 D01 Clause 5.2.1 and 5.7.1 and summed in accordance with FCC KDB 662911 D01.

Measurements were performed with a Spectrum Analyser using the Band Power measurement function. The detector was set to RMS with an RBW of 300 kHz and VBW of 1 MHz. The detection bandwidth was configured to be wider than the total bandwidth of the carrier or combinations of carriers, (multi-carrier). Using a sweep time of 5 seconds, the average measurement was recorded.

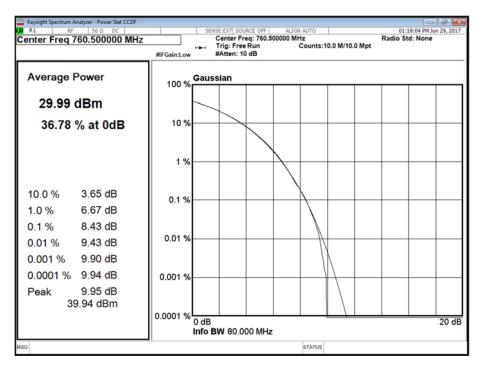


## 2.1.6 Test Results

#### **Configuration 1**

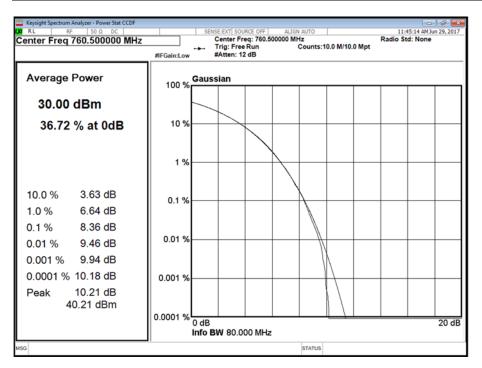
#### Maximum Output Power 30 dBm

			Peak to Average Ratio (PAR) / Output Power					
A		LTE Carrier	Channel Position B					
Antenna	LTE Modulation	Bandwidth		Averag	je Power			
			PAR (dB)	dBm	dBm/MHz			
A	QPSK	5.0 MHz	8.43	29.96	24.16			
В	QPSK	5.0 MHz	8.36	29.97	24.05			
	Total		-	32.98	27.12			
A	16QAM	5.0 MHz	8.38	29.86	24.22			
В	16QAM	5.0 MHz	8.37	29.86	24.14			
	Total		-	32.87	27.19			
A	64QAM	5.0 MHz	8.32	29.85	23.93			
В	B 64QAM		8.38	29.85	23.93			
	Total		-	32.86	26.94			



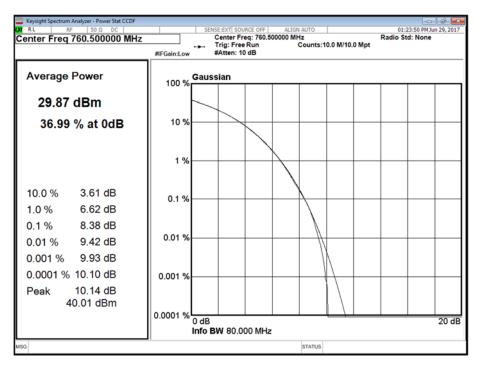
## Antenna A - LTE Modulation QPSK - LTE Carrier Bandwidth 5.0 MHz - Channel Position B



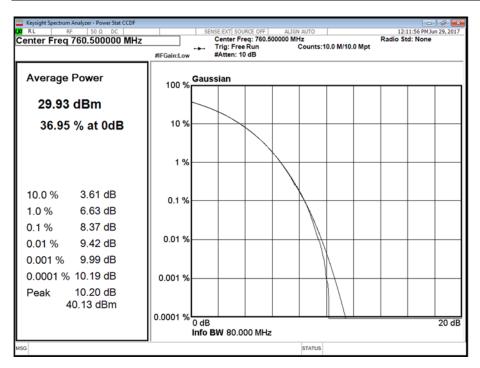


Antenna B - LTE Modulation QPSK - LTE Carrier Bandwidth 5.0 MHz - Channel Position B



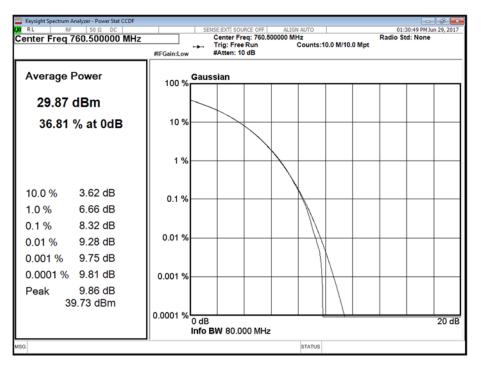




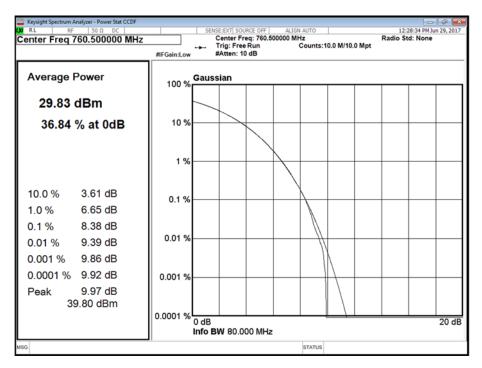


Antenna B - LTE Modulation 16QAM - LTE Carrier Bandwidth 5.0 MHz - Channel Position B









Antenna B - LTE Modulation 64QAM - LTE Carrier Bandwidth 5.0 MHz - Channel Position B

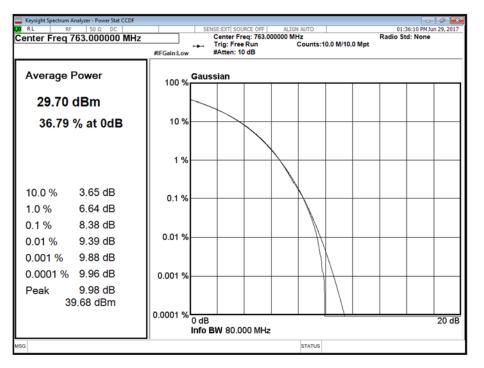


# Configuration 1

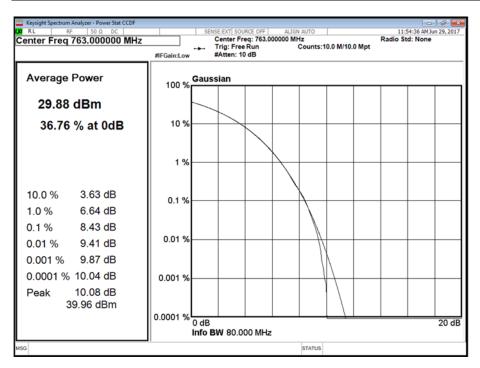
#### Maximum Output Power 30 dBm

			Peak to Av	erage Ratio (PAR) /	Output Power			
Antenna	LTE Modulation	LTE Carrier	Channel Position M					
Antenna		Bandwidth		Average Power				
			PAR (dB)	dBm	dBm/MHz			
A	QPSK	5.0 MHz	8.38	29.71	23.76			
В	QPSK	5.0 MHz	8.43	29.82	23.96			
	Total		-	32.78	26.87			
A	16QAM	5.0 MHz	8.36	29.74	23.93			
В	16QAM	5.0 MHz	8.44	29.65	24.16			
	Total			32.71	27.06			
A	64QAM	5.0 MHz	8.27	29.64	23.74			
В	64QAM	5.0 MHz	8.34	29.64	23.82			
	Total		-	32.65	26.79			
A	QPSK	10.0 MHz	8.35	29.44	20.86			
В	QPSK	10.0 MHz	8.40	30.16	21.66			
	Total		-	32.83	24.29			
A	16QAM	10.0 MHz	8.29	29.37	20.85			
В	16QAM	10.0 MHz	8.32	30.01	21.59			
	Total			32.71	24.25			
A	64QAM	10.0 MHz	8.40	29.38	20.72			
В	64QAM	10.0 MHz	8.36	30.01	21.34			
	Total		-	32.72	24.05			

# Antenna A - LTE Modulation QPSK - LTE Carrier Bandwidth 5.0 MHz - Channel Position M

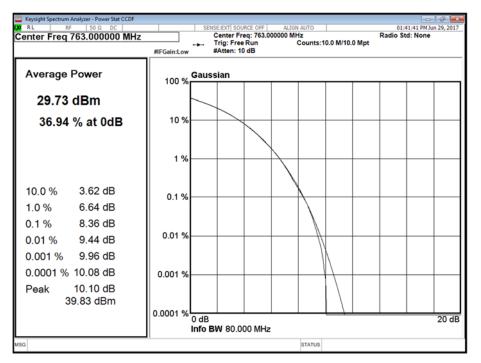




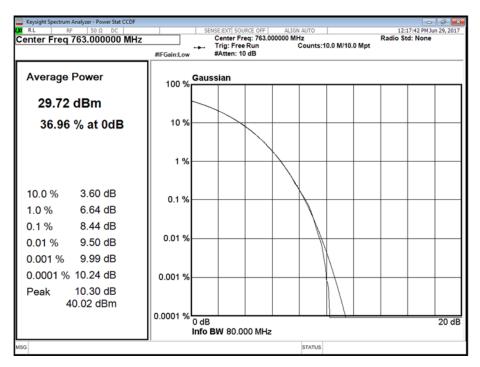


# Antenna B - LTE Modulation QPSK - LTE Carrier Bandwidth 5.0 MHz - Channel Position M

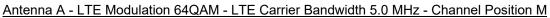


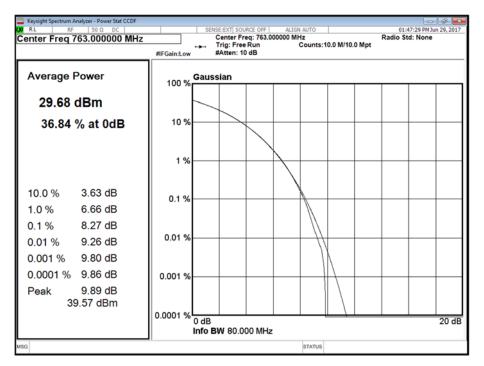




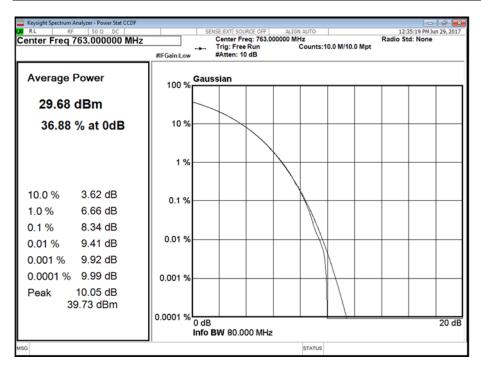


Antenna B - LTE Modulation 16QAM - LTE Carrier Bandwidth 5.0 MHz - Channel Position M

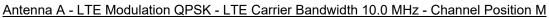


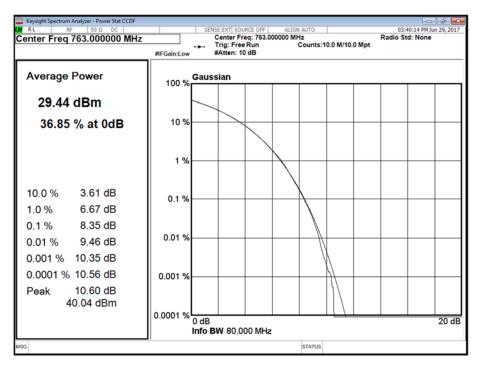




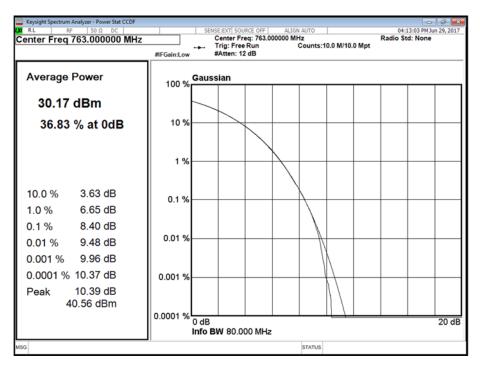


Antenna B - LTE Modulation 64QAM - LTE Carrier Bandwidth 5.0 MHz - Channel Position M

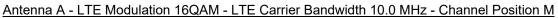


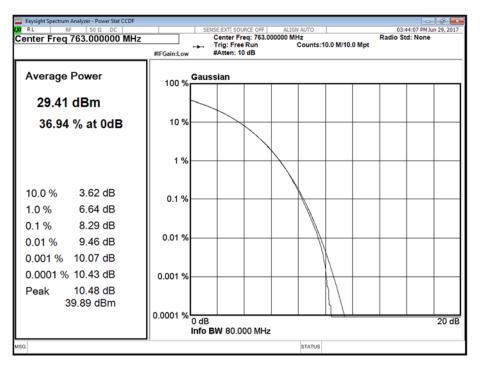




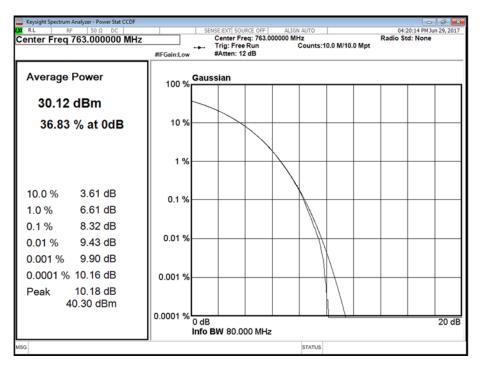


Antenna B - LTE Modulation QPSK - LTE Carrier Bandwidth 10.0 MHz - Channel Position M

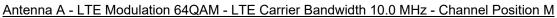


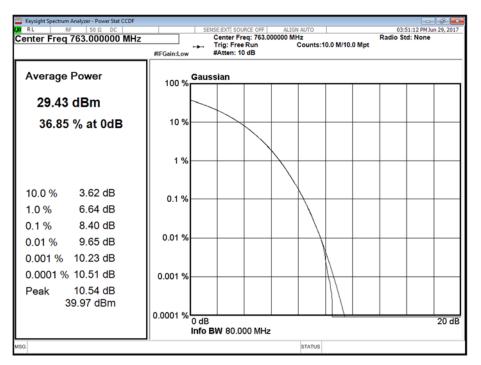






Antenna B - LTE Modulation 16QAM - LTE Carrier Bandwidth 10.0 MHz - Channel Position M







 
 Keysight Spectrum Analyzer - Power Stat CCDF

 RL
 RF
 50 Ω
 DC

 Center Freq 763.000000 MHz
 04:24:13 PM Jun 29, 2017 Radio Std: None NSE:EXT SOURCE OFF ALIGN AUTO Center Freq: 763.000000 MHz Trig: Free Run Counts:10.0 M/10.0 Mpt #Atten: 12 dB SEN ٦ #IFGain:Low 100 % Gaussian Average Power 30.10 dBm 36.77 % at 0dB 10 % 1 % 10.0 % 3.62 dB 0.1 % 1.0 % 6.63 dB 0.1 % 8.36 dB 0.01 % 0.01 % 9.56 dB 0.001 % 10.05 dB 0.0001 % 10.28 dB 0.001 % 10.30 dB Peak 40.40 dBm 0.0001 % 20 dB Info BW 80.000 MHz STATUS

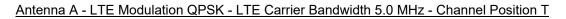
Antenna B - LTE Modulation 64QAM - LTE Carrier Bandwidth 10.0 MHz - Channel Position M

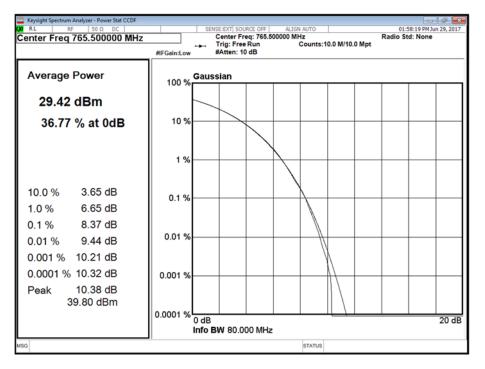


# Configuration 1

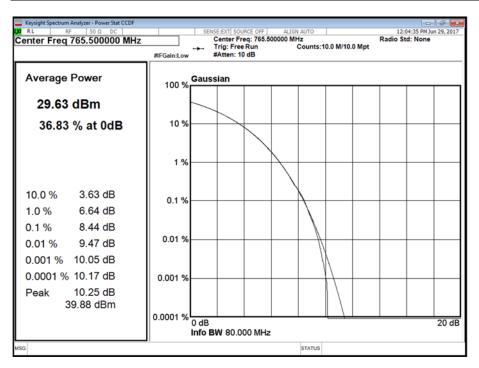
## Maximum Output Power 30 dBm

			Peak to Average Ratio (PAR) / Output Power					
Antonno	I TE Modulation	LTE Carrier	Channel Position T					
Antenna	LIE Modulation	Bandwidth		Averaç	je Power			
			PAR (dB)	dBm	dBm/MHz			
A	QPSK	5.0 MHz	8.37	29.49	23.53			
В	QPSK	5.0 MHz	8.44	29.54	23.65			
	Total			32.53	26.60			
A	16QAM	5.0 MHz	8.33	29.57	23.79			
В	16QAM	5.0 MHz	8.39	29.53	23.67			
	Total		-	32.56	26.74			
A	64QAM	5.0 MHz	8.28	29.37	23.52			
В	64QAM	5.0 MHz	8.35	29.53	23.60			
	Total		-	32.46	26.57			



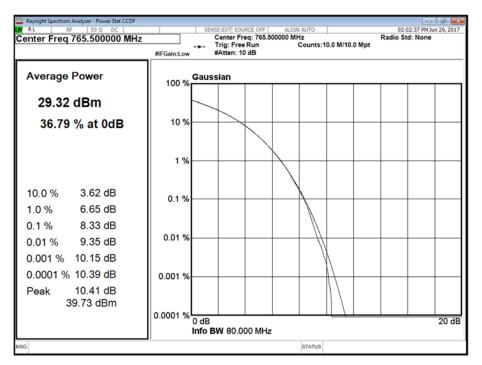




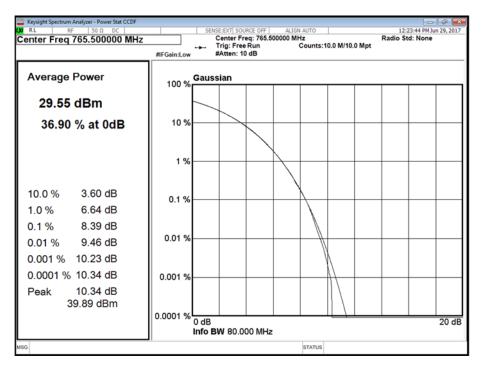


Antenna B - LTE Modulation QPSK - LTE Carrier Bandwidth 5.0 MHz - Channel Position T



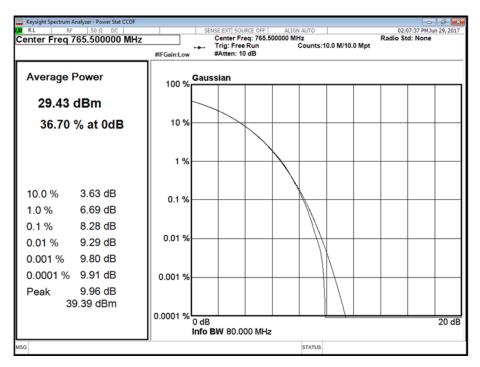






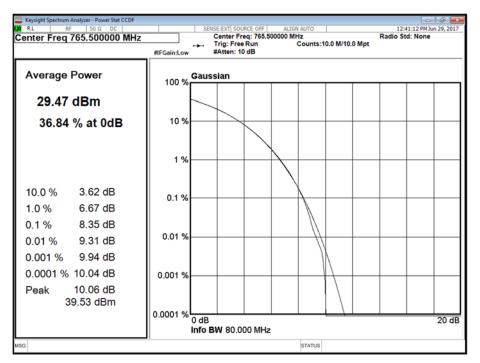
Antenna B - LTE Modulation 16QAM - LTE Carrier Bandwidth 5.0 MHz - Channel Position T





Antenna A - LTE Modulation 64QAM - LTE Carrier Bandwidth 5.0 MHz - Channel Position T







Limit	
Peak Power	≤65 W/MHz or ≤+48.13 dBm/MHz (FCC Part 90.542(3))* ≤30 W or ≤+44.77 dBm (FCC Part 90.542(6))
Peak to Average Ratio	Not specified
*Note: Limit is based on worst case Antenna height from Tab	le 3.



#### 2.2 OCCUPIED BANDWIDTH

#### 2.2.1 Specification Reference

FCC CFR 47 Part 2, Clause 2.1049

#### 2.2.2 Date of Test and Modification State

29 June 2017 - Modification State 0

#### 2.2.3 Test Equipment Used

The major items of test equipment used for the above tests are identified in Section 3.1.

#### 2.2.4 Environmental Conditions

Ambient Temperature22.5°CRelative Humidity55.2%

#### 2.2.5 Test Method

All measurements were made in accordance with FCC KDB 971168 D01 Clause 4.2.

The Spectrum Analyser RBW was configured to be at least 1% of the channel bandwidth of the carrier to be measured. For 26 dB Bandwidth and 99% Occupied Bandwidth, in accordance with KDB 971168 D01, a peak detector and a trace setting of Max Hold were used with the Spectrum Analyser measurement function.

#### 2.2.6 Test Results

**Configuration 1** 

Maximum Output Power 30 dBm

Antenna	LTE	LTE Carrier	Channel Position B		Channel I	Position M	Channel Position T	
	Modulation Bandwidt		Occupied Bandwidth	-26 dB Occupied Bandwidth Bandwidth		-26 dB Bandwidth	Occupied Bandwidth	-26 dB Bandwidth
A	QPSK	5.0 MHz	4,480.22	4,916.32	4,481.69	4,920.42	4,480.11	4,922.22
В	QPSK	5.0 MHz	4,477.63 4,919.47		4,480.59	4,916.26	4,480.38	4,901.27
A	16QAM	5.0 MHz	4,481.33	4,908.75	4,482.75	4,910.18	4,481.15	4,888.99
В	16QAM	5.0 MHz	4,480.19	4,899.29	4,482.31	4,909.08	4,482.19	4,912.07
A	64QAM	5.0 MHz	4,501.23	4,953.54	4,502.48	4,946.50	4,498.96	4,953.12
В	64QAM	5.0 MHz	4,499.72	4,954.05	4,502.11	4,952.14	4,502.12	4,951.20
A	QPSK	10.0 MHz	8,969.52	9,832.44	8,971.30	9,819.62	8,970.33	9,820.38
В	QPSK	10.0 MHz	8,963.13	9,790.92	8,968.23	9,847.66	8,968.63	9,832.79
A	16QAM	10.0 MHz	8,970.85	9,801.32	8,974.19	9,799.30	8,972.78	9,802.65
В	16QAM	10.0 MHz	8,973.61	9,783.23	8,969.90	9,805.80	8,979.44	9,794.66
A	64QAM	10.0 MHz	8,977.30	9,831.94	8,981.94	9,814.93	8,980.65	9,823.14
В	64QAM	10.0 MHz	8,980.83	9,842.72	8,978.73	9,847.83	8,979.64	9,836.73



	🛛 Keysight Spectrum Analyzer - Occupied BW 💿 🐼 📧										
RL Center Fre	RF 50 Ω DC	MHz		SENSE:EXT SOU Center Fre	RCE OFF AL	IGN AUTO		01:21: Radio Std:	21 PM Jun 29, 2017 None		
Center Fre	Trig: Free Run						Avg Hold: 5000/5000 Radio Device: BTS				
		#	FGain:Low	#Atten: 10	dB			Radio Devi	ce: BTS		
10 dB/div Log	Ref 36.29 dBr	<u>n</u>	1						1		
26.3							$\square$				
16.3				hann	m	$\sim$					
6.29		— A-					$+\Lambda$	_			
-3.71		_/					$   \rangle$				
-13.7							$\square$				
-23.7									mm		
-33.7							$\square$				
-43.7											
-53.7											
Center 760 #Res BW				#VE	3W 160 kHz	2			pan 10 MHz weep 5 ms		
Occupi	ied Bandwid	th		Total P	ower	38.2 d	Bm				
Occup				Totari		00.2 u	2				
	4.	4802	MHZ								
Transm	it Freq Error	2.3	18 kHz	% of O	BW Power	99.00	0 %				
x dB Ba	ndwidth	4.9	16 MHz	x dB		-26.00	dB				
MSG						STATUS					

Antenna B - LTE Modulation QPSK - LTE Carrier Bandwidth 5.0 MHz - Channel Position B

Keysight Spectrum Analyzer - Occupied BW     RL		SENSE:EXT SOURCE OFF ALL	IGN AUTO	11:52:05 AM Jun 29, 2017		
Center Freq 760.500000 N	IHz	Center Freq: 760.500000	MHz	Radio Std: None		
	#IFGain:Low	"Trig: Free Run #Atten: 10 dB	Avg Hold: 10000/10000	Radio Device: BTS		
10 dB/div Ref 36.34 dBm		1 1				
26.3						
16.3		har market and the second	mmm			
6.34						
-3.66						
-13.7	m l		\_			
-33.7						
43.7						
-53.7						
Center 760.5 MHz				Span 10 MHz		
#Res BW 51 kHz		#VBW 160 kHz	2	Sweep 5 ms		
Occupied Bandwidth	n	Total Power	38.3 dBm			
	776 MHz					
Transmit Freq Error	3.279 kHz	% of OBW Power	99.00 %			
x dB Bandwidth	4.919 MHz	x dB	-26.00 dB			
	4.919 WHZ	хuв	-20.00 06			
MSG			STATUS			



Antenna A - LTE Modulation QPSK -	I TE O a unita u D a us alcuitable.	
Antenna A - LLE Modulation UPSK -	I I E Carrier Bandwidth	5 U MHZ - Channel Position M

	ctrum Analyzer - Occupied BW								- 6
X RL	RF 50 Ω DC req 763.000000 N	1H7		SENSE:EXT SOU Center Fre	RCE OFF AL	IGN AUTO		01:40:0 Radio Std:	7 PM Jun 29, 2017 None
Center Fi			FGain:Low	_ Trig: Free #Atten: 10	Run	Avg Hold:	5000/5000	Radio Devi	ce: BTS
10 dB/div Log	Ref 36.48 dBm	·							
26.5									
16.5			mmm	mon	mon	~~~~~~			
6.48		A							
3.52		_/_							
13.5									
23.5		~					~~	- marken	m
33.5									
43.5									
53.5									
Center 76 #Res BW				#VE	BW 160 kHz	2			pan 10 MHz weep 5 ms
Occup	bied Bandwidt	ı		Total F	ower	38.0 d	Bm		
	4.4	<b>1</b> 817	MHz						
Transn	nit Freq Error	1.5	94 kHz	% of O	BW Power	99.0	0 %		
x dB B	andwidth	4.92	20 MHz	x dB		-26.00	dB		
sg						STATUS			

Antenna B - LTE Modulation QPSK - LTE Carrier Bandwidth 5.0 MHz - Channel Position M

	Analyzer - Occupied								
Center Freq	F 50 Ω DC 763.000000				q: 763.000000			Radio Std: N	2 PM Jun 29, 2017 None
			#IFGain:Low	Trig: Free #Atten: 10		Avg Hold: 1	0000/10000	Radio Devic	e: BTS
	Ref 35.16 dE	Bm							
25.2									
15.2				mon	mmm	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			
5.16		LA							
-4.84		L/					$  \rangle$		
-14.8			_				$\square$		
-24.8			_						
-34.8									
-44.8			_						
-54.8									
Center 763 M #Res BW 51				#VE	3W 160 kHz	2			oan 10 MHz weep 5 ms
Occupie	d Bandwid	dth		Total P	ower	38.1 di	Зm		
	4	1.4806	6 MHz						
Transmit	Freq Error	1	.808 kHz	% of O	BW Power	99.00	%		
x dB Band	dwidth	4.	916 MHz	x dB		-26.00	dB		
MSG						STATUS			
mou						STATUS			



Antenna A - LTE Modulation QPSK - LTE Carrier Bandwidth 5.0 MHz - Channel Position T

	ctrum Analyzer - Occupied								- 6 ×
Center Fr	RF 50 Ω DC eq 765.500000		<u> </u>		q: 765.500000	IGN AUTO		Radio Std: I	7 PM Jun 29, 2017 None
			#IFGain:Low	<ul> <li>Trig: Free #Atten: 10</li> </ul>		Avg Hold:	5000/5000	Radio Devid	e: BTS
10 dB/div	Ref 36.02 dE	sm							
26.0									
16.0				manno	m	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~		
6.02									
-3.98									
-14.0							$   \rangle$		
-24.0	- Lemma ha	~~~~					~~~	-	
-34.0							$\square$		
-44.0									
-54.0							$\square$		
Center 76	5 5 MH7							er	oan 10 MHz
#Res BW				#VE	3W 160 kH	z			weep 5 ms
Occur	bied Bandwid	ith		Total P	ower	37.7 d	Bm		
	4	.4801	MHz						
Transn	nit Freq Error	1.	686 kHz	% of O	BW Power	99.0	0 %		
x dB B	andwidth	4.9	22 MHz	x dB		-26.00	dB		
MSG						STATUS			

Antenna B - LTE Modulation QPSK - LTE Carrier Bandwidth 5.0 MHz - Channel Position T

Keysight Spe	ectrum Analyzer - Occupied B RF 50 Ω DC	BW	1 1	SENSE:EXT SOUR	RCE OFF AL	IGN AUTO		12:09:2	7 PM Jun 29, 2017
	req 765.500000	MHz		Center Fre	q: 765.500000		10000/10000	Radio Std:	
		1	#IFGain:Low	#Atten: 10	dB	Avginola.	10000/10000	Radio Devid	e: BTS
10 dB/div	Ref 36.12 dB	m							
26.1									
16.1				min	montan	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			
6.12		A					$\square$		
-3.88		-/					$  \rangle$		
-13.9		_/_					$\vdash$		
-23.9	union and a second s								m
-33.9									
-43.9									
-53.9									
Center 7 #Res BW				#VE	3W 160 kH:	2			oan 10 MHz weep 5 ms
Occu	pied Bandwid	lth		Total P	ower	37.9 di	Зm		
	4	.4804	MHz						
Transr	mit Freq Error	2.	203 kHz	% of O	BW Power	99.00	) %		
x dB B	Bandwidth	4.9	01 MHz	x dB		-26.00	dB		
MSG						STATUS			
1100						514105			



Antenna A - LTE Modulation 16QAM - LTE Carrier Bandwidth 5.0 MHz - Channel Position B

	n Analyzer - Occupied								- 6 X
Center Freq	RF 50 Ω DC				rq: 760.500000			01:27:0 Radio Std:	7 PM Jun 29, 2017 None
			#IFGain:Low	<ul> <li>Trig: Free #Atten: 10</li> </ul>		Avg Hold:	5000/5000	Radio Devid	e: BTS
10 dB/div Log 26.7	Ref 36.73 dB	3m		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	m		
6.73 -3.27 -13.3 -23.3	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~							w.g. A	
-33.3									
Center 760.4 #Res BW 51	5 MHz kHz			#VE	BW 160 kHz	:			oan 10 MHz weep 5 ms
Occupie	d Bandwid 4		3 MHz	Total P	ower	39.6 d	Bm		
Transmit x dB Ban	Freq Error dwidth		.722 kHz 909 MHz	% of O x dB	BW Power	99.00 -26.00			
MSG						STATUS			

Antenna B - LTE Modulation 16QAM - LTE Carrier Bandwidth 5.0 MHz - Channel Position B

Keysight Spectrum Analyzer - Occupied BW RL RF 50 Ω DC		SENSE:EXT SOURCE OFF ALIC	SN AUTO	12:15:13 PM Jun 29, 2017		
Center Freq 760.500000 M	MHz	Center Freq: 760.500000 N	IHz	Radio Std: None		
	#IFGain:Low	Trig: Free Run #Atten: 10 dB	Avg Hold: 5000/5000	Radio Device: BTS		
10 dB/div Ref 36.37 dBm	1					
Log						
16.4	m					
6.37						
-3.63	_/					
-13.6						
23.6				adaman and a second		
-33.6				+		
43.6						
-53.6						
Center 760.5 MHz #Res BW 51 kHz		#VBW 160 kHz		Span 10 MHz Sweep 5 ms		
Occupied Bandwidt	<u> </u>	Total Power	39.5 dBm	encep enco		
•	4802 MHz					
Transmit Freq Error	-1.687 kHz	% of OBW Power	99.00 %			
x dB Bandwidth	4.899 MHz	x dB	-26.00 dB			
ISG			STATUS			



Antenna A - LTE Modulation 16QAM - LTE Carrier Bandwidth 5.0 MHz - Channel Position M

	rum Analyzer - Occupied								
Center Fre	RF 50 Ω DC		<u> </u>		q: 763.000000 I			01:45:3 Radio Std: I	7 PM Jun 29, 2017 None
			#IFGain:Low	<ul> <li>Trig: Free #Atten: 10</li> </ul>		Avg Hold:	5000/5000	Radio Devid	e: BTS
10 dB/div Log 26.6	Ref 36.56 dB	3m				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~		
6.56 -3.44									
-23.4		-do-grad						and and a second	
-53.4 Center 763	3 MH7							S	pan 10 MHz
#Res BW				#VE	3W 160 kHz	:			weep 5 ms
Occupi	ied Bandwid 4	dth 1.4827	MHz	Total P	ower	39.4 dl	Зm		
	it Freq Error ndwidth		775 kHz )10 MHz	% of OI x dB	% of OBW Power x dB		)% dB		
MSG						STATUS			

Antenna B - LTE Modulation 16QAM - LTE Carrier Bandwidth 5.0 MHz - Channel Position M

Keysight Spectrum Analyzer - Occupied BW		SENSE:EXT SOURCE OFF ALI	GN AUTO	12:21:36 PM Jun 29, 2017
Center Freq 763.000000 N	IHz	Center Freq: 763.000000 N		Radio Std: None
	#IFGain:Low	#Atten: 10 dB	Avginola. Socorsoco	Radio Device: BTS
10 dB/div Ref 36.45 dBm				
Log	İ			
26.5	m		mmm	
6.45				
-3.55				
-13.6				
-23.6				
-33.6				
-43.6				
-53.6				
Center 763 MHz #Res BW 51 kHz		#VBW 160 kHz		Span 10 MHz Sweep 5 ms
Occupied Bandwidth	۰ ۱	Total Power	39.4 dBm	
	1823 MHz			
Transmit Freq Error	-3.285 kHz	% of OBW Power	99.00 %	
x dB Bandwidth	4.909 MHz	x dB	-26.00 dB	
MSG			STATUS	
maa			514105	



Antenna A - LTE Modulation 16QAM - LTE Carrier Bandwidth 5.0 MHz - Channel Position T

	ctrum Analyzer - Occupied B	w							- 6 -
Center Fr	RF 50 Ω DC req 765.500000	MHz		SENSE:EXT SOUR Center Fre	RCE OFF AL	IGN AUTO		02:05: Radio Std:	05 PM Jun 29, 2017 None
o on non n	]		IFGain:Low	Trig: Free #Atten: 10		Avg Hold:	5000/5000	Radio Devi	ce: BTS
10 dB/div	Ref 36.22 dB	m							
Log		<u> </u>							
26.2			hann	minh		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	1		
16.2		1					1		
6.22 -3.78		_/					$\square$		
-3.78							$\square$		
-23.8		m						amora m	Thomas
-33.8									
43.8									
-53.8								_	
Center 76 #Res BW				#VE	3W 160 kHz	:			pan 10 MHz weep 5 ms
Occup	bied Bandwid	th		Total P	ower	39.2 d	Bm		
	4.	.4812	MHz						
Transn	nit Freq Error	-3.1	156 kHz	% of O	BW Power	99.0	0 %		
x dB B	andwidth	4.8	89 MHz	x dB		-26.00	dB		
MSG						STATUS			

Antenna B - LTE Modulation 16QAM - LTE Carrier Bandwidth 5.0 MHz - Channel Position T

Keysight Spectrum Analyzer - Occupied BW     RL RF 50 Ω DC		SENSE:EXT SOURCE OFF ALI	GN AUTO	12:26:11 PM Jun 29, 2017
Center Freq 765.500000 MHz		Center Freq: 765.500000 N Trig: Free Run	MHz Avg Hold: 5000/5000	Radio Std: None
	#IFGain:Low	#Atten: 10 dB	Anginola. Coolicour	Radio Device: BTS
10 dB/div Ref 36.15 dBm				
26.2				
16.2				
6.15	/			
-3.85				
-23.9			Pres	www.mar
-33.9				
-43.9				
-53.9				
Center 765.5 MHz				Span 10 MHz
#Res BW 51 kHz		#VBW 160 kHz		Sweep 5 ms
Occupied Bandwidth		Total Power	39.2 dBm	
	22 MHz			
Transmit Freq Error	-2.488 kHz	% of OBW Power	99.00 %	
x dB Bandwidth	4.912 MHz	x dB	-26.00 dB	
MSG			STATUS	



Antenna A - LTE Modulation 64QAM - LTE Carrier Bandwidth 5.0 MHz - Channel Position B

	n Analyzer - Occupied								- 6 ×
Center Fred	RF 50 Ω DC				q: 760.500000 I			Radio Std:	06 PM Jun 29, 2017 None
			#IFGain:Low	<ul> <li>Trig: Free #Atten: 10</li> </ul>		Avg Hold:	5000/5000	Radio Devi	ce: BTS
10 dB/div Log 25.7 15.7 5.68 -4.32 -14.3 -24.3	Ref 35.68 df				~~~h~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			
-34.3 -44.3 -54.3									
Center 760. #Res BW 51				#VE	3W 160 kHz	:			pan 10 MHz weep 5 ms
Occupie	ed Bandwie 4	<sup>dth</sup> 1.5012	MHz	Total F	ower	38.5 dl	Bm		
Transmit x dB Ban	Freq Error dwidth		-502 Hz 54 MHz	% of O x dB	BW Power	99.00 -26.00			
MSG						STATUS			

Antenna B - LTE Modulation 64QAM - LTE Carrier Bandwidth 5.0 MHz - Channel Position B

Keysight Spectrum Analyzer - Occupied BW		SENSE:EXT SOURCE OFF ALIC	SN AUTO	12:31:53 PM Jun 29, 2017
Center Freq 760.500000 M	Hz	Center Freq: 760.500000 N	MHz	Radio Std: None
	#IFGain:Low	Trig: Free Run #Atten: 10 dB	Avg Hold: 5000/5000	Radio Device: BTS
10 dB/div Ref 35.54 dBm				
25.5				
15.5		human	mann	
5.54				
-4.46	_/			
-14.5				
-24.5	J			martoman
-34.5				with Anthrope a
44.5				
-54.5				
Center 760.5 MHz #Res BW 51 kHz		#VBW 160 kHz		Span 10 MHz Sweep 5 ms
Occupied Bandwidth		Total Power	38.4 dBm	
•	997 MHz			
Transmit Freq Error	1.015 kHz	% of OBW Power	99.00 %	
x dB Bandwidth	4.954 MHz	x dB	-26.00 dB	
MSG			STATUS	



Antenna A - LTE Modulation 64QAM - LTE Carrier Bandwidth 5.0 MHz - Channel Position M

	ctrum Analyzer - Occupied								-   Ø   X
Center Fr	RF 50 Ω DC eq 763.000000			SENSE:EXT SOUR	RCE OFF AL	IGN AUTO		01:51:2 Radio Std:	5 PM Jun 29, 2017
Center Pr	eq 703.00000			Trig: Free	Run	Avg Hold:	5000/5000		
			#IFGain:Low	#Atten: 10	dB			Radio Devid	e: BTS
10 dB/div Log	Ref 35.91 dl	<u>3m</u>							
25.9									
15.9					mm	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	m		
5.91									
-4.09									
							$\square$		
-14.1							$\square$		
-24.1	and and and a share	m					1 100	manna m	monum
-44.1									
-54.1									
Center 76	3 MHz							S	an 10 MHz
#Res BW	51 kHz			#VE	3W 160 kH:	z			weep 5 ms
0.000	ied Denduri	déla		Total P	ower	38.3 dl	Bm		
	ied Bandwig			Total P	04461	50.5 ui	5111		
	4	1.502	5 MHz						
Transm	nit Freq Error		-939 Hz	% of O	BW Power	99.00	)%		
	andwidth		947 MHz	x dB		-26.00	dD		
	andwidth	4.	.947 WITZ	X UB		-20.00	uв		
MSG						STATUS			

Antenna B - LTE Modulation 64QAM - LTE Carrier Bandwidth 5.0 MHz - Channel Position M

Keysight Spectrum Analyzer - Occupied BW	1 1	SENSE:EXT SOURCE OFF ALI	GN AUTO	12:39:13 PM Jun 29, 2017
Center Freq 763.000000 N	IHz	Center Freq: 763.000000 M	MHz	Radio Std: None
	#IFGain:Low	Trig: Free Run #Atten: 10 dB	Avg Hold: 5000/5000	Radio Device: BTS
10 dB/div Ref 35.80 dBm				
Log 25.8				
15.8		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
5.80				
-4.20	_/			
-14.2	-/			
-24.2			\	A
-24.2 Among market and the second sec				anna lannan ala anna an
-44.2				
-54.2				
Center 763 MHz #Res BW 51 kHz		#VBW 160 kHz		Span 10 MHz Sweep 5 ms
Occupied Bandwidth	<u>ו</u>	Total Power	38.3 dBm	
	5021 MHz			
Transmit Freq Error	-1.212 kHz	% of OBW Power	99.00 %	
x dB Bandwidth	4.952 MHz	x dB	-26.00 dB	
MSG			STATUS	



Antenna A - LTE Modulation 64QAM - LTE Carrier Bandwidth 5.0 MHz - Channel Position T

	um Analyzer - Occupied								- 6 ×
Center Free	RF 50 Ω DC q 765.50000				q: 765.500000	IGN AUTO		02:10:0 Radio Std:	6 PM Jun 29, 2017 None
	4.00.000000		#IFGain:Low	Trig: Free Run Avg Hold: 5000/5000 #Atten: 10 dB				Radio Devid	e: BTS
10 dB/div Log 25.1 15.1 5.09 -4.91 -14.9 -24.9	Ref 35.09 dl				······	an a	wy		MAran Marine
-34.9 -44.9 -54.9									
Center 765 #Res BW 5				#VE	3W 160 kHz	:			oan 10 MHz weep 5 ms
Occupi	ed Bandwie 2		) MHz	Total P	ower	38.1 di	Зm		
Transmi x dB Bar	t Freq Error ndwidth	4.	670 Hz 953 MHz	% of O x dB	BW Power	99.00 -26.00			
MSG						STATUS			

Antenna B - LTE Modulation 64QAM - LTE Carrier Bandwidth 5.0 MHz - Channel Position T

Keysight Spectrum Analyzer - Occupied BW				- 6 <u>-</u>
RL RF 50Ω DC Center Freq 765.500000 M	Hz	SENSE:EXT SOURCE OFF ALL Center Freq: 765.500000 M	GN AUTO	12:43:39 PM Jun 29, 2017 Radio Std: None
	#IFGain:Low	Trig: Free Run #Atten: 10 dB	Avg Hold: 5000/5000	Radio Device: BTS
10 dB/div Ref 35.44 dBm				
25.4				
15.4		man	monty	
.44	_/		\	
56				
4.6	/			
4.6	1		- two	amount flature and
1.6 coloreman a manufacture				CONTRACTING CONTRACTOR
4.6				
4.6				
enter 765.5 MHz Res BW 51 kHz		#VBW 160 kHz		Span 10 MH Sweep 5 m
Occupied Bandwidth		Total Power	38.2 dBm	
4.5	021 MHz			
Transmit Freq Error	-243 Hz	% of OBW Power	99.00 %	
x dB Bandwidth	4.951 MHz	x dB	-26.00 dB	
G			STATUS	
			o muo	



Antenna A - LTE Modulation QPSK - LTE Carrier Bandwidth 10.0 MHz - Channel Position B

	trum Analyzer - Occupied	BW							- 6 X	
Center Fr	RF 50 Ω DC eq 763.000000	MHz		SENSE:EXT SOU Center Fre	RCE OFF AL eq: 763.000000	IGN AUTO		03:55:1 Radio Std: N	6 PM Jun 29, 2017	
Conterin	]		#IFGain:Low	. Trig: Free #Atten: 10		Avg Hold:	5000/5000	Radio Device: BTS		
10 dB/div Log 25.4	Ref 35.43 dB	m								
15.4 5.43		_/			h					
-4.57 -14.6 -24.6	And and a start of the start of	m					- Andrewski - Andr	general and the second	a marana a da	
-34.6 -44.6 -54.6										
Center 76 #Res BW				#VE	300 kHz	:			oan 20 MHz o 1.933 ms	
Occup	ied Bandwid 8	lth .9695	MHz	Total P	ower	38.3 d	Bm			
	it Freq Error		722 Hz		BW Power					
x dB Ba	andwidth	9.8	32 MHz	x dB		-26.00	dB			
MSG						STATUS				

Antenna B - LTE Modulation QPSK - LTE Carrier Bandwidth 10.0 MHz - Channel Position B

Keysight Spectrum Analyzer - Occupied BW     RL RF 50 Ω DC		SENSE:EXT SOURCE OFF ALL	GN AUTO	04:28:29 PM Jun 29, 2017
Center Freq 763.000000 MHz		Center Freq: 763.000000 M		Radio Std: None
	#IFGain:Low	#Atten: 10 dB	Avginola. Socioco	Radio Device: BTS
10 dB/div Ref 35.82 dBm				
25.8				
15.8	h		manna	
5.82	$\mathbb{A}$			
-4.18	,			
·14.2				heavenenstrommen
-24.2				
-34.2				
-54.2				
Center 763 MHz #Res BW 100 kHz		#VBW 300 kHz		Span 20 MHz Sweep   1.933 ms
Occupied Bandwidth		Total Power	39.0 dBm	
8.963	31 MHz			
Transmit Freq Error	4.751 kHz	% of OBW Power	99.00 %	
x dB Bandwidth	9.791 MHz	x dB	-26.00 dB	
MSG			STATUS	



Antenna A - LTE Modulation QPSK - LTE Carrier Bandwidth 10.0 MHz - Channel Position M

	trum Analyzer - Occupied	BW							- 6 ×
Center Fr	RF 50 Ω DC eq 763.000000	MHz		SENSE:EXT SOU	RCE OFF   ALI eq: 763.000000	GN AUTO		03:41:1 Radio Std:	2 PM Jun 29, 2017 None
Contor III		11112	#IFGain:Low	_ Trig: Free #Atten: 10		Avg Hold:	5000/5000	Radio Devid	e: BTS
10 dB/div Log 25.0 15.0 5.04 -4.96 -15.0 -25.0	Ref 35.04 dE	im			· · · · · · · · · · · · · · · · · · ·	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			
-35.0									
Center 76 #Res BW				#VE	300 kHz				oan 20 MHz p   1.933 ms
Occup	ied Bandwic 8		3 MHz	Total P	ower	38.3 dl	Bm		
	nit Freq Error Andwidth		.215 kHz 820 MHz	% of O x dB	BW Power	99.00 -26.00			
MSG						STATUS			

Antenna B - LTE Modulation QPSK - LTE Carrier Bandwidth 10.0 MHz - Channel Position M

Keysight Spectrum Analyzer - Occupied BW Keysight Spectrum Analyzer - Occupied BW		SENSE:EXT SOURCE OFF ALIC	SN AUTO	04:14:00 PM Jun 29, 2017
Center Freq 763.000000 M	Hz	Center Freq: 763.000000 N	IHz	Radio Std: None
	#IFGain:Low	- Trig: Free Run #Atten: 10 dB	Avg Hold: 5000/5000	Radio Device: BTS
10 dB/div Ref 35.76 dBm				
Log 25.8				
15.8	mann			
5.76				
-4.24				
.14.2				
-24.2	~			
-34.2				
44.2				
-54.2				
Center 763 MHz				On on 20 Mills
#Res BW 100 kHz		#VBW 300 kHz		Span 20 MHz Sweep   1.933 ms
Occupied Bandwidth	1	Total Power	39.0 dBm	
8.9	682 MHz			
Transmit Freq Error	4.177 kHz	% of OBW Power	99.00 %	
x dB Bandwidth	9.848 MHz	x dB	-26.00 dB	
MSG			STATUS	



Antenna A - LTE Modulation QPSK - LTE Carrier Bandwidth 10.0 MHz - Channel Position T

	trum Analyzer - Occupied	BW							- 6 X
Center Fr	RF 50 Ω DC eq 763.000000	MHz		SENSE:EXT SOUR	RCE OFF AL	IGN AUTO		03:56:3 Radio Std:	7 PM Jun 29, 2017 None
	]		#IFGain:Low	Trig: Free #Atten: 10		Avg Hold:	5000/5000	Radio Devi	e: BTS
10 dB/div	Ref 35.04 dB	m							
Log 25.0									
15.0				man			-		
		/							
5.04 -4.96		_/					$\square$		
-4.90									
-25.0	man and a second	r m					m	m money	man
-35.0									
-45.0									
-55.0									
Center 76 #Res BW				#VE	300 kHz	2			oan 20 MHz p   1.933 ms
Occup	ied Bandwid	lth		Total P	ower	38.3 d	Bm		
	8	.9703	8 MHz						
Transm	nit Freq Error		99 Hz	% of O	BW Power	99.00	0 %		
x dB Ba	andwidth	9.	820 MHz	x dB		-26.00	dB		
MSG						STATUS			

Antenna B - LTE Modulation QPSK - LTE Carrier Bandwidth 10.0 MHz - Channel Position T

Center Freq 763.000000 M		Center Freq: 763.000000 N	MHz Avg Hold: 5000/5000	Radio Std: None
	#IFGain:Low	#Atten: 10 dB	Avginoid. Socolooo	Radio Device: BTS
10 dB/div Ref 35.84 dBm				
25.8				
15.8	m			
5.84			<u> </u>	
-4.16				
-14.2	~			
-24.2				1.14.14
-34.2				
-44.2				
Center 763 MHz #Res BW 100 kHz		#VBW 300 kHz		Span 20 MHz Sweep   1.933 ms
Occupied Bandwidth	1	Total Power	39.0 dBm	
8.9686 MHz				
Transmit Freq Error	3.901 kHz	% of OBW Power	99.00 %	
x dB Bandwidth	9.833 MHz	x dB	-26.00 dB	
MSG			STATUS	