

FCC Test Report

Report No.: AGC02931211001FE07

FCC ID : POD-POC4

APPLICATION PURPOSE : Original Equipment

PRODUCT DESIGNATION : POC Radio

BRAND NAME : TYT, Tytpilot

MODEL NAME : IP-39S

APPLICANT: TYT Electronics Co., Ltd.

DATE OF ISSUE : Oct. 26, 2021

FCC Part 22 Rules

STANDARD(S) FCC Part 24 Rules

FCC Part 27 Rules
FCC Part 90 Rules

REPORT VERSION : V1.0

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Attestation of Global Compliance (Shenzhen) Co., Ltd.





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REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	1	Oct. 26, 2021	Valid	Initial Release



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1. GENERAL INFORMATION

Applicant	TYT Electronics Co., Ltd.			
Address	Block 39-1, Optoelectronics-information industry base, Nan'an, Quanzhou, Fujian, China.			
Manufacturer	TYT Electronics Co., Ltd.			
Address	Block 39-1, Optoelectronics-information industry base, Nan'an, Quanzhou, Fujian, China.			
Factory	TYT Electronics Co., Ltd.			
Address	Block 39-1, Optoelectronics-information industry base, Nan'an, Quanzhou, Fujian, China.			
Product Designation	POC Radio			
Brand Name	TYT, Tytpilot			
Test Model	IP-39S			
Date of test	Oct. 11, 2021~Oct. 26, 2021			
Deviation	No any deviation from the test method.			
Condition of Test Sample	Normal			

WE HEREBY CERTIFY THAT:

The above equipment was tested by Attestation of Global Compliance(Shenzhen) Co., Ltd. The data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI/TIA-603-E-2016. The sample tested as described in this report is in compliance with the FCC Rules Part 22, 24, 27and 90. The test results of this report relate only to the tested sample identified in this report.

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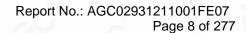
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2. PRODUCT INFORMATION

2.1 PRODUCT TECHNICAL DESCRIPTION

A major technical description of EUT is described as following:

Product Designation:	POC Radio			
Hardware Version:	V1.2		GO GO	
Software Version:	EC25AFFAR07A0	8M4G	0	10° 10°
Radio System Type:	LTE FUNCTION	100		
Frequency Bands:	 ☐FDD Band 2 ☐FDD Band 30 ☐FDD Band 71 ☐FDD Band 1 ☐FDD Band 20 (Non-U.S. Bands) 			☐FDD Band 7 ☐FDD Band 17 ☑TDD Band 66 ☐FDD Band 19 ☐TDD Band 39
	LTE-Band 2	1851.5 MHz - 190 1852.5 MHz - 190 1855.0 MHz - 190 1857.5 MHz - 190	9.3 MHz(1.4MHz) 8.5 MHz(3.0MHz) 7.5 MHz(5.0MHz) 5.0 MHz(10.0MHz) 2.5 MHz(15.0MHz) 0.0 MHz(20.0MHz)	
Transmission Frequency Range:	LTE-Band 4	1710.7 MHz - 175 1711.5 MHz - 175 1712.5 MHz - 175 1715.0 MHz - 175 1717.5 MHz - 174	4.3 MHz(1.4MHz) 3.5 MHz(3.0MHz) 2.5 MHz(5.0MHz) 0.0 MHz(10.0MHz) 7.5 MHz(15.0MHz) 5.0 MHz(20.0MHz)	
	LTE-Band 5	824.7 MHz - 848.3 825.5 MHz - 847.7 826.5 MHz - 846.5 829.0 MHz - 844.0	7 MHz(3.0MHz)	
	LTE-Band 12		5 MHz(3.0MHz) 5 MHz(5.0MHz) 0 MHz(10.0MHz)	
	LTE-Band 13	779.5 MHz – 784.5	WHZ(5.UMHZ)	





		782.0 MHz – 782	2.0 MHz(10.0MHz)		
		790.5 MHz – 795	5.5 MHz(5.0MHz)	8	
	LTE-Band 14	793.0 MHz – 793	3.0 MHz(10.0MHz)	0 -6	
	10	1710.7 MHz – 17	79.3 MHz(1.4MH	z)	
		1711.5 MHz – 17	78.5 MHz(3.0MHz	z)	
	LTE-Band 66	1712.5 MHz – 17	77.5 MHz(5.0MH	z)	
	LTL-Balld 00	1715.0 MHz – 17	75.0 MHz(10.0MF	Hz)	
		1717.5 MHz – 17	72.5 MHz(15.0MH	Hz)	
	6	1720.0 MHz – 17	70.0 MHz(20.0MH	Hz)	
	< GO	665.5 MHz – 695	5.5 MHz(5.0MHz)	0 _ CO	
	LTE-Band 71	668.0 MHz – 693	3.0 MHz(10.0MHz)		
		670.5 MHz – 690.5 MHz(15.0MHz)			
	-60	673.0 MHz – 688.0 MHz(20.0MHz)			
Antenna Type:	Detachable anter	hable antenna			
Type of Modulation:	QPSK/16QAM				
Antenna gain:	Band 2: -3dBi	Band 4: -2dBi	Band 5: -4dBi	Band 12: -5dBi	
Antenna gam.	Band 13: -3dBi	Band 14: -4dBi	Band 66: -3dBi	Band 71: -4dBi	
Power Supply:	DC 3.7V by batte	ry, 4000mAh			
Category	NB1	20 0		30	
Deployment	Stand-alone	100	c.G	·	
Sub-carrier spacing	3.75KHz, 15KHz	0		,0	
Ntones	Single, Multi-tone	7.C	®	10	
Dual Card:	WCDMA/LTE Card Slot				
Power Class:	3				
Extreme Vol. Limits:	DC3.15V to 4.2V (Normal: 3.7V)				
Temperature range:	-20℃ to +50℃				
Note1: The High Voltage	ge DC4.2V and Low	Voltage DC3.15V we	ere declared by mar	ufacturer. The EUT	

Note1: The High Voltage DC4.2V and Low Voltage DC3.15V were declared by manufacturer, The EUT couldn't be operating normally with higher or lower voltage..



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2.2 RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for **FCC ID:POD-POC4**, filing to comply with the FCC Part 22, Part 24 Pant 27 and Part 90 requirements.

2.3 TEST METHODOLOGY

The tests were performed according to following standards:

No.	Identity	Document Title		
1	47 CFR FCC Part 2	Frequency allocations and radio treaty matters, general rules and regulations.		
2	47 CFR FCC Part 22	Public Mobile Services.		
3	47 CFR FCC Part 24	Personal Communications Services.		
4	47 CFR FCC Part 27 Miscellaneous Wireless Communications Services.			
5	47 CFR FCC Part 90	Private Land Mobile Radio Services.		
6 ANSI C63.26-2015 American National Standard for Co		American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services		
7	ANSI/TIA-603-E-2016	Land Mobile FM or PM Communications Equipment Measurement and Performance Standards		
8	KDB 971168	D01 v03r01 Measurement Guidance For Certification Of Licensed Digital Transmitters.		

2.4 DEVICE CAPABILITIES

This device contains the following capabilities:

850/1700/1900 WCDMA/HSPA, Multi-Band LTE, GPS.

This device uses a tuner circuit that dynamically updates the antenna impedance parameters to optimize antenna performance for certain bands and modes of operation. The tuner for this device was set to simulate a "free space" condition where the transmit antenna is matched to the medium into which it is transmitting and, thus, the power is at its maximum level.

LTE Band 12 (698 - 716 MHz) overlaps the entire frequency range of LTE Band 17 (704 - 716 MHz).

Therefore, test data provided in this report covers Band 17 as well as Band 12.

LTE Band 26 (814.7-849 MHz) overlaps the entire frequency range of LTE Band 5 (824 – 849 MHz).

Therefore, test data provided in this report covers Band 5 and the portion of Band 26 subject to Part 22.

LTE Band 66 (1710-1780 MHz) overlaps the entire frequency range of LTE Band 4 (1710 - 1755 MHz).

Therefore, test data provided in this report covers Band 4 as well as Band 66.

LTE Band 25 (1850-1915 MHz) overlaps the entire frequency range of LTE Band 2 (1850 - 1910 MHz).

Therefore, test data provided in this report covers Band 2 as well as Band 25.

The above inclusion relationship is only a statement of the frequency coverage between the LTE working bands, and the actual supported frequency bands are subject to the reported data.

For emissions from 1GHz – 18GHz, low, mid, and high channels were tested with highest power and worst case configuration.

The emissions below 1GHz and above 18GHz were tested with the highest transmitting power channel and

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the worst case configuration.

The EUT was manipulated through three orthogonal planes of X-orientation (flatbed), Y-orientation (landscape), and Z-orientation (portrait) during the testing. Only the worst case emissions were reported in this test report.

2.5 SPECIAL ACCESSORIES

The battery was supplied by the applicant were used as accessories and being tested with EUT intended for FCC grant together.

2.6 EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

2.7 EMISSION DESIGNATOR

GSM Emission Designator

Emission Designator = 249KGXW

GSM BW = 249 kHz

G = Phase Modulation

X = Cases not otherwise covered

W = Combination (Audio/Data)

WCDMA Emission Designator

Emission Designator = 4M17F9W

WCDMA BW = 4.17 MHz

F = Frequency Modulation

9 = Composite Digital Info

W = Combination (Audio/Data)

QAM Modulation

Emission Designator = 4M48W7D

LTE BW = 4.48 MHz

W = Amplitude/Angle Modulated

7 = Quantized/Digital Info

D = Data transmission; telemetry; telecommand

EDGE Emission Designator

Emission Designator = 249KG7W

GSM BW = 249 kHz

G = Phase Modulation

7 = Quantized/Digital Info

W = Combination (Audio/Data)

QPSK Modulation

Emission Designator = 4M48G7D

LTE BW = 4.48 MHz

G = Phase Modulation

7 = Quantized/Digital Info

D = Data transmission; telemetry; telecommand



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3. TEST ENVIRONMENT

3.1 ADDRESS OF THE TEST LABORATORY

Laboratory: Attestation of Global Compliance (Shenzhen) Co., Ltd

Address: 1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

3.2 TEST FACILITY

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L5488

Attestation of Global Compliance (Shenzhen) Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2017 General Requirements) for the Competence of Testing and Calibration Laboratories

A2LA-Lab Cert. No.: 5054.02

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

FCC-Registration No.: 975832

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files with Registration 975832.

IC-Registration No.: 24842

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the Certification and Engineering Bureau of Industry Canada. The acceptance letter from the IC is maintained in our files with Registration 24842



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3.3 ENVIRONMENTAL CONDITIONS

	NORMAL CONDITIONS	EXTREME CONDITIONS
Temperature range	15~35℃	-20℃~50℃
Humidty range	20 % to 75 %.	20 % to 75 %.
Pressure range	86-106kPa	86-106kPa
Power supply	DC 3.7V	DC3.15V or 4.2V

Note: The Extreme Temperature and Extreme Voltages declared by the manufacturer.

3.4 MEASUREMENT UNCERTAINTY

Test	Measurement Uncertainty	Notes
Transmitter power conducted	±0.57 dB	[®] (1)
Transmitter power Radiated	±2.20 dB	(1)
Conducted spurious emission 9KHz-40 GHz	±2.20 dB	(1)
Occupied Bandwidth	±0.01ppm	(1)
Radiated Emission 30~1000MHz	±4.10dB	(1)
Radiated Emission Above 1GHz	±4.32dB	(1)
Conducted Disturbance0.15~30MHz	±3.20dB	(1)
Radio Frequency	± 6.5 x 10-8	(1)
RF Power, Conducted	± 0.9 dB	(1)

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



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3.5 LIST OF TEST EQUIPMENT

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	101206	May 11, 2021	May 10, 2022
LISN	R&S	ESH2-Z5	100086	Jun. 09, 2021	Jun. 08, 2022
TEST RECEIVER	R&S	ESCI	10096	Apr. 14, 2021	Apr. 13, 2022
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec. 07, 2020	Dec. 06, 2021
EXA Signal Analyzer	Aglient	N9020B	MY56101792	Jun. 09, 2021	Jun. 08, 2022
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Oct. 20, 2019	Oct. 19, 2022
preamplifier	ChengYi	EMC184045SE	980508	Sep. 19, 2021	Sep. 18, 2022
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	Apr. 23, 2021	Apr. 22, 2023
Broadband Preamplifier	SCHWARZBECK	00073	BBHA 9120 J	Sep. 25, 2021	Sep. 24, 2022
ANTENNA	SCHWARZBECK	VULB9168	D69250	Apr. 28, 2021	Apr. 27, 2023
SIGNAL ANALYZER	Agilent	N9020A	MY52090123	Sep. 06, 2021	Sep. 05, 2022
USB Wideband Power Sensor	Agilent	U2021XA	MY54110007	May 11, 2021	May 10, 2025
Wireless communicationtest	R&S	CMW500	120909	Sep. 06, 2021	Sep. 05, 2022
Power Splitter	Agilent	11636A	34	Jun.08, 2021	Jun.07, 2022
Attenuator	JFW	50FHC-006-50	N/A	Jun.08, 2021	Jun.07, 2022

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4. SYSTEM TEST CONFIGURATION

4.1 EUT CONFIGURATION

The EUT configuration for testing is installed on RF field strength measurement to meet the Commission's requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

4.2 EUT EXERCISE

The Transmitter was operated in the maximum output power mode through Communication Tester. The TX frequency was fixed which was for the purpose of the measurements.

4.3 CONFIGURATION OF EUT SYSTEM

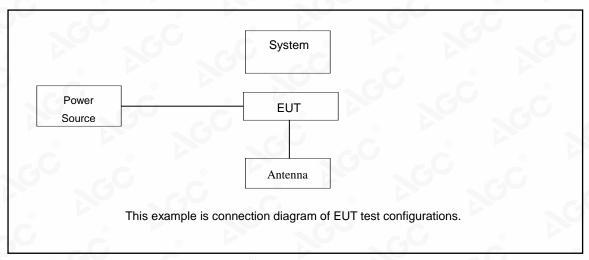


Table 2-1 Equipment Used in EUT System

4.4 EQUIPMENT USED IN TESTED SYSTEM

The Following Peripheral Devices And Interface Cables Were Connected During The Measurement:

- ☐ Test Accessories Come From The Laboratory
- ☐ Test Accessories Come From The Manufacturer

Item	Equipment	Model No.	Identifier	Note
9 1	POC Radio	IP-39S	FCC ID: POD-POC4	EUT
2	Battery	IP-39S	DC 3.7V 4000mAh	Accessories
3	Back clip	N/A	N/A	Accessories
4	Adapter	U0B2E0D050100	Input: 100-240V, 50/60Hz, 0.15A Output: DC 5V 1A	Accessories



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5. SUMMARY OF TEST RESULTS

5.1 TEST CONDITION: CONDUCTED TEST

Item	Test Description	FCC Rules	Result
1	Occupied Bandwidth	§2.1049	Pass
2	Band Edge / Spurious and Harmonic Emissions at Antenna Terminal	§2.1051, §22.917(a), §90.543(e), §22.917(a)§27.53(g), §27.53(c) §27.53(h) §24.238(a) §27.53(m) (4)	Pass
3	On all frequencies between 763-775 MHz and 793-805 MHz	§27.53(c)(4)	Pass*
4	On all frequencies between 769-775 MHz and 799-805 MHz	§90.543(e)	Pass*
5	Conducted Output Power	§2.1046	Pass
6	Frequency stability / variation of ambient temperature	§2.1055, §90.539(e), §22.355, §27.54§24.235	Pass
7	Peak- to- Average Ratio	27.50(d)(5) §24.232(d)	Pass

Note:

5.2 TEST CONDITION: RADIATED TEST

Item	Test Description	FCC Rules	Result
,C1	Effective Radiated Power Equivalent Isotropic Radiated Power	§90.542(a)(7), §22.913(a)(5), §27.50(c)(10) §27.50(h)(2) §27.50(b), 27.50(d)(4), §24.232(c)	Pass
2	Radiated Spurious and Harmonic Emissions	§2.1053, §90.543(e), §22.917(a), §27.53(g) §27.53(m) (4) §27.53(c), §27.53(h), §24.238(a)	Pass
3	Undesirable Emissions in the 1559-1610 MHz band	§2.1053, §90.543(f), 27.53(f)	Pass

^{*}Since it was not possible to set the resolution bandwidth to 6.25 kHz with the available equipment, a bandwidth of 10kHz was used instead to show compliance.



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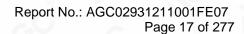
6. DESCRIPTION OF TEST MODES

During the testing, the EUT was controlled via Rhode & Schwarz Digital Radio Communication Tester (CMW 500) to ensure max power transmission and proper modulation. Three channels (The top channel, the middle channel and the bottom channel) were chosen for testing on both LTE frequency band.

The worst condition was recorded in the test report if no other modes test data.

	LTE Band 2 Cha	nnel and Frequen	cy List	
BW [MHz]	Channel/Frequency (MHz)	Lowest	Middle	Highest
20	Channel	18700	18900	19100
20	Frequency	1860	1880	1900
4.5	Channel	18675	18900	19125
15	Frequency	1857.5	1880	1902.5
10	Channel	18650	18900	19150
	Frequency	1855	1880	1905
G	Channel	18625	18900	19175
5	Frequency	1852.5	1880	1907.5
3	Channel	18615	18900	19185
	Frequency	1851.5	1880	1908.5
4460	Channel	18607	18900	19193
1.4	Frequency	1850.7	1880	1909.3

	LTE Band 4 Ch	annel and Frequenc	y List	
BW [MHz]	Channel/Frequency (MHz)	Lowest	Middle	Highest
20	Channel	20050	20175	20300
20	Frequency	1720	1732.5	1745
3 1 5	Channel	20025	20175	20325
15	Frequency	1717.5	1732.5	1747.5
10	Channel	20000	20175	20350
	Frequency	1715	1732.5	1750
E .	Channel	19975	20175	20375
5	Frequency	1712.5	1732.5	1752.5
3	Channel	19965	20175	20385
	Frequency	1711.5	1732.5	1753.5
	Channel	19957	20175	20393
1.4	Frequency	1710.7	1732.5	1754.3

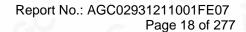




(2)			(3)	
	LTE Band 5 Cha	nnel and Frequenc	cy List	
BW [MHz]	Channel/Frequency (MHz)	Lowest	Middle	Highest
10	Channel	20450	20525	20600
10	Frequency	829	836.5	844
5	Channel	20425	20525	20625
	Frequency	826.5	836.5	846.5
	Channel	20415	20525	20635
3	Frequency	825.5	836.5	847.5
4.4	Channel	20407	20525	20643
1.4	Frequency	824.7	836.5	848.3

	LTE Band 12 Cl	nannel and Frequen	cy List	
BW [MHz]	Channel/Frequency (MHz)	Lowest	Middle	Highest
10	Channel	23060	23095	23130
10	Frequency	704	707.5	711
	Channel	23035	23095	23155
5	Frequency	701.5	707.5	713.5
2	Channel	23025	23095	23165
3	Frequency	700.5	707.5	714.5
1.4	Channel	23017	23095	23173
1.4	Frequency	699.7	707.5	715.3

	LTE Band 13 Cl	nannel and Frequenc	cy List	
BW [MHz]	Channel/Frequency (MHz)	Lowest	Middle	Highest
10	Channel	<u> </u>	23230	9 - 20
10	Frequency	60 - 20	782	1
	Channel	23205	23230	23255
5	Frequency	779.5	782	784.5

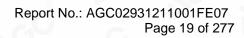




(8)			(8)	
	LTE Band 14 C	hannel and Frequenc	cy List	
BW [MHz]	Channel/Frequency (MHz)	Lowest	Middle	Highest
40	Channel	-	23230	10-
10	Frequency		793	-
5	Channel	23305	23330	23355
	Frequency	790.5	793	795.5

	LTE Band 66 Cha	annel and Frequen	cy List	
BW [MHz]	Channel/Frequency (MHz)	Lowest	Middle	Highest
00	Channel	132072	132322	132572
20	Frequency	1720	1745	1770
45	Channel	132047	132322	132597
15	Frequency	1717.5	1745	1772.5
64	Channel	132022	132322	132622
10	Frequency	1715	1745	1775
_	Channel	131997	132322	132647
5	Frequency	1712.5	1745	1777.5
3	Channel	131987	132322	132657
	Frequency	1711.5	1745	1778.5
-60	Channel	131979	132322	132665
1.4	Frequency	1710.7	1745	1779.3

	LTE Band 71 Cha	annel and Frequenc	cy List	
BW [MHz]	Channel/Frequency (MHz)	Lowest	Middle	Highest
20	Channel	133222	133322	133372
20	Frequency	673	680.5	688
15	Channel	133197	133322	133397
) IS	Frequency	670.5	680.5	690.5
10	Channel	133172	133322	133422
10	Frequency	668	680.5	693
F	Channel	133147	133322	133447
5	Frequency	665.5	680.5	695.5





Test Mode	Test Modes Description
LTE DAND 2	LTE system, QPSK modulation
LTE BAND 2	LTE system, 16QAM modulation
LTE DAND 4	LTE system, QPSK modulation
LTE BAND 4	LTE system, 16QAM modulation
LTE DAND E	LTE system, QPSK modulation
LTE BAND 5	LTE system, 16QAM modulation
LTE DAND 40	LTE system, QPSK modulation
LTE BAND 12	LTE system, 16QAM modulation
LTE DAND 40	LTE system, QPSK modulation
LTE BAND 13	LTE system, 16QAM modulation
LTE DAND 44	LTE system, QPSK modulation
LTE BAND 14	LTE system, 16QAM modulation
LTE DAND CC	LTE system, QPSK modulation
LTE BAND 66	LTE system, 16QAM modulation
LTE DAND 74	LTE system, QPSK modulation
LTE BAND 71	LTE system, 16QAM modulation



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ACCORDING TO 3GPP 36.521 SUB-CLAUSE 6.2.3.3, THE MAXIMUM OUTPUT POWER IS ALLOWED TO BE REDUCED BY FOLLOWING THE TABLE.

TABLE 6.2.3.3-1: MAXIMUM POWER REDUCTION (MPR) FOR POWER CLASS 3

Modulation	Cha	nnel bandwic		ssion band RB]	width configu	ration	MPR (dB)
Page 1	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz	8
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2

The device supports MPR to solve linearity issues (ACLR or SEM) due to the higher peak-to average ratios (PAR) of the HSUPA signal. This prevents saturating the full range of the TX DAC inside of device and provides a reduced power output to the RF transceiver chip according to the Cubic Metric (For PRACH, PUCCH and SRS transmission, the allowed MPR is according to that specified for PUSCH QPSK modulation for the corresponding transmission bandwidth.).

When PRACH, PUCCH are present the beta gains on those channels are reduced firsts to try to get the power under the allowed limit. If the beta gains are lowered as far as possible, then a hard limiting is applied at the maximum allowed level.

For each subframe, the MPR is evaluated per slot and given by the maximum value taken over the transmission(s) within the slot, the maximum MPR over the two slots is then applied for the entire subframe.

For the UE maximum output power modified by MPR, the power limits specified in subclause 6.2.5.3 apply. The normative reference for this requirement is TS 36.101 clause 6.2.3.

The end effect is that the DUT output power is identical to the case where there is no MPR in the device.



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7. CONDUCTED OUTPUT POWER

7.1 PROVISIONS APPLICABLE

The conduction test is carried out in a shielded room.

According to the test, connect the device under test to the antenna port on the non-conductive platform directly to the test device for evaluation and measurement (ANSI-C63.26-2015 Clause 5.4)

7.2 MEASUREMENT METHOD

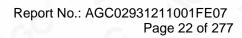
- -The transmitter output port was connected to base station.
- -Set EUT at maximum power through base station.
- -Select lowest, middle, and highest channels for each band and different test mode.

7.3 MEASUREMENT SETUP



7.4 MEASUREMENT RESULT

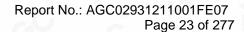
Please refer to the next page for test result data.





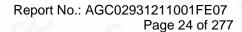
LTE Band 2

BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)
®				1	0 💿	0	22.03
	@			1	49	0 💿	22.84
	- C	@		1	99	0	22.82
		- C	QPSK	50	0	1	21.22
			G	50	25	1	21.10
				50	49	1	21.58
	10700	700 1860.0		100	0	1	21.28
	18700		®	1	0	1	21.06
	1 < 0		C	® 1	49	1	21.79
				. 1	99	1	21.58
			16QAM	50	0	2	20.26
				50	25	2	20.15
				50	49	2	20.55
				100	0	2	20.33
				1	0 @	0	22.43
	8			1	49	0 0	22.18
	NGC .	0	QPSK	1	99	0	21.77
		900 1880.0		50	0	1	21.23
				50	25	1	21.24
	(8)			50	49	® 1	21.02
	Classes			100	0	1	21.10
20MHz	18900		(8)	1	0	1	21.98
				1	49	1	21.97
				1	99	1	21.34
			16QAM	50	0	2	20.24
			3	50	25	2	20.18
				50	49	2	20.11
				100	0	2	20.16
				1	0 @	0	21.82
	8			1	49	0 💿	22.06
			(8)	1	99	0	21.77
		6	QPSK	50	0	1	20.80
				50	25	1	20.80
	(3)			50	49	1	20.96
	0		100	0	1	20.79	
	19100	1900.0	®	1	0	1	20.47
			- C	1	49	1	21.00
				- 1	99	1	20.65
			16QAM	50	0	2	20.03
		S		50	25	2	19.93
				50	49	2	19.99
				100	0	2	20.00



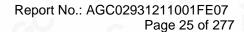


BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)
				® 1	0	0	22.02
		. (1)		1 0	38	0	22.18
				1	74	0	22.79
	(3)		QPSK	38	0	1	21.09
		4057.5	QI OIX	38	18	1	21.32
				38	37	1	21.18
	10075			75	© 0	1	21.33
	18675	1857.5		1	0	® 1	21.15
	G	8		1	38	1	21.35
		LC)	8	1	74	1	21.19
			16QAM	38	0	2	21.08
				38	18	2	21.31
		0		38	37	2 🏻	21.58
			3	75	0	2	20.46
				[®] 1	0	0	22.18
		F.C.		1	38	0	21.99
	(0)			1	74	0	21.88
	GC.	@	QPSK	38	0	1	21.39
				38	18	1	21.22
		900 1880.0		38	37	1	20.91
4 CN 41 I -	40000			75	0	1	21.18
15MHz	18900	1880.0		1	0	1	21.39
		©	8	1	38	1	21.22
				_® 1	74	1	20.90
		- (16QAM	38	0	2	21.39
			_ (38	18	2	21.22
		3		38	37	2 🧓	20.90
	C		3	75	0	2	20.26
				1	0	0	21.82
				1	38	0	21.92
	@			1	74	0	21.99
	- 0	@	QPSK	38	0	1	20.73
			@	38	18	1	21.05
	19125			38	37	1	20.78
		4000 5		75	0	1	20.96
		1902.5		1	0	[©] 1	21.37
				1	38	1	20.83
			(0)	1	74	1	20.85
			16QAM	38	0	2	20.63
	0			38	18	2	20.86
	1	®		38	37	2	20.94
			®	75	0	2	19.96



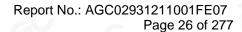


BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average powe (dBm)
((9	1	0	0	21.96
			•	1	24	0	22.43
				1	49	0	22.42
			QPSK	25	0	1	21.25
	(8)		QFSK	25	12	1.	21.16
			@	25	25		21.39
				50	0	1	21.22
	18650	1855.0		1	0	1	21.22
	©			1	24	1	
		8		1		1	21.58
		C	460414		49		21.50
			16QAM	25	0	2	20.08
				25	12	2	20.19
				25	25	2	20.42
				50	0	2	20.27
			· ·	1	0	0	22.23
	A.C		-0	1	24	0	22.27
		00 1880.0	QPSK	1	49	0	21.94
				25	0	1	21.29
				25	12	_ 1	21.30
				25	25	1	21.08
10MHz	18900			50	0	1	21.13
10111112	0000	1000.0	16QAM	1	0	₀ 1	21.17
	C	®		1	24	1	21.02
		.C		1	49	1	20.85
				25	0	2	20.48
				25	12	2	20.38
				25	25	2	20.06
			0	50	0	2	20.22
				1	0	0	21.85
			-6	1 8	24	0	22.16
				1	49	0	21.97
			QPSK	25	0	1®	21.07
			@	25	12	_ 1	21.08
	19150	6		25	25	1	21.22
		1005.0		50	0	1	21.05
		1905.0		1	0	_ 1	20.94
		©		1	24	_ 1	21.15
			· (©	1	49	1	21.03
		7	16QAM	25	0	2	20.08
				25	12	2	20.17
				25	25	2	20.34
		8		50	0	2	20.25



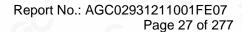


BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)
				1	0	0	22.21
				1 8	12	0	22.11
				1	24	0	22.24
		@	QPSK	12	0	1	21.16
		- C		12	6	(6)1	21.06
				12	13	1	21.30
				25	0	® 1	21.17
	18625	1852.5		1	0	1	20.86
				1	12	1	20.79
				1	24	1	21.22
			16QAM	12	0	2	20.16
				12	6	2	20.20
	6.0			12	13	2	20.13
				25	0	2	20.14
				1.0	0	0	22.39
		©		1	12	0	22.24
	60			1	24	0	22.38
			QPSK	12	0	1	21.40
	(8)			12	6	® 1	21.40
		©		12	13	1	21.25
		.C		25	0	1	21.24
5MHz	18900	1880.0		1	0	1	21.52
				1	12	1	21.37
		3		1	24	1	21.33
			16QAM	12	0	2	20.43
				12	6	2	20.52
				12	13 🏻	2	20.18
	8	(0)		25	0	2 (20.36
	60		©	1	0	0	22.13
				1	12	0	22.19
	@			1	24	0	22.14
		8	QPSK	12	0	1	21.10
		C	(e)	12	6	1	21.11
				12	13	1	21.16
		465-		25	0	1	21.04
	19175	1907.5		1	0	1	21.04
				1	12	1_ (21.33
				1	24	1	21.25
			16QAM	12	0 💿	2	20.04
	@			12	6	2	20.04
	-C	8		12	13	2	20.09
				25	0	2	20.09



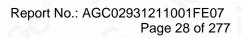


BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)
			©	1	0	0	22.37
				1	8	0	22.20
				1	14	0	22.24
		@	QPSK	8	0	1	21.32
		a.C		8	4	(6) 1	21.31
				8	8	1	21.23
	18615	1851.5		15	0	® 1	21.21
	10015	0.1001	3	1	0	1	21.32
		C		1	8	1	21.17
		(1	14	1	21.39
			16QAM	8	0	2	20.38
				8	4	2	20.38
				8	8	2	20.31
			C	15	0	2	20.38
	(2)			1	0	0	22.54
	CO P	©		1	8	0	22.16
		a.C		1	14	0	22.45
			QPSK	8	0	1	21.37
				8	4	® 1	21.37
		8		8	7	1	21.37
3MHz	10000	18900 1880.0	8	15	0	1	21.33
SIVITZ	18900		1880.0		1	0	1
				1	8	1	21.16
				1	14	1	21.50
			16QAM	8	0	2	20.51
				8	4	2	20.51
				8	8 🏻	2	20.23
		8		15	0	2	20.21
		a.C.	8	1	0	0	22.22
				1	8	0	22.34
	8			_ 1	14	0	22.55
	G	8	QPSK	8	0	1	21.26
		G		8	4	1	21.37
	19185			8	8	1	21.32
		1908.5		15	0	1	21.11
		1900.5		1	0	1	21.47
				1	8	1	21.33
				1	14	1	21.46
			16QAM	8	0 💿	2	20.64
	(8)			8	4	2	20.23
	~C	(6)		8	8	2	20.59
				15	0	2	20.44





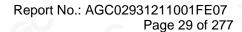
BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)
	. 6		©	1	0	0	22.35
				1	2	0	22.34
(8)	@			1	5	0	22.39
C		©	QPSK	3	0	0	22.48
		a.C		3	1	0	22.47
8				3	2	0	22.47
	18607	1850.7		6	0	® 1	21.67
	10007	1000.7		1	0	1	21.19
				1	2	1	21.72
		× C		1	5	1	21.29
0			16QAM	3	0	1	21.40
				3	1	1	21.47
	100			3	2	1	21.55
			0	6	0	2	20.48
(8)	®			1	0	0	22.43
60	- C	(8)	QPSK	1	2	0	22.69
	G	a.C		1	5	0	22.47
(e)				3	0	0	22.54
				3	1	0	22.54
		®		3	2	0	22.45
1.4MHz	18900	0 1880.0	(S)	6	0	1	21.58
1.4IVITZ	10900	1000.0		1	0	1	21.43
(8)			N NO	1	2	1	21.83
				1	5	1 @	21.47
			16QAM	3	0	1	21.34
				3 ®	1	1	21.33
(8)	(2)			3	2 🌑	1	21.26
60		@		6	0	2	20.43
			8	1	0	0	22.31
0				1	2	0	22.47
	8			_ 1	5	0	22.59
	C	©	QPSK	3	0	0	22.38
		C		3	1	0	22.37
	19193			3	2	0	22.28
@		1909.3		6	0	1	21.49
		1909.3		1	0	1 @	21.77
				1	2	1_ (21.82
	10			1	5	1	21.54
©			16QAM	3	0 🌑	1	21.21
a.C	-C			3	1	1 8	21.20
		(8)		3	2	1	21.06
				6	0	2	20.60





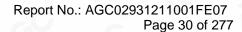
LTE Band 4

BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)
©				1	0	0	23.46
	@			1	49	0	23.48
	- 0	@		1	99	0	23.11
		C	QPSK	50	0	0 1	22.44
			-C	50	25	1	22.44
	@			50	49	1	22.16
	20050	1720.0		100	0	1	22.36
	20050	1720.0	®	1	0	1	22.69
				® 1	49	1	22.54
				1	99	1	22.15
			16QAM	50	0	2	21.61
				50	25	2	21.61
				50	49	2	21.31
				100	0	2	21.42
				1	0 @	0	22.42
	8			1	49	0	23.01
	a.C	8		1	99	0	23.00
			QPSK	50	0	1	21.39
				50	25	1	21.39
	®			50	49	® 1	21.98
001411	00475	1732.5		100	0	1	21.70
20MHz	20175	1732.5	(8)	1	0	1	21.38
			a.C	1	49	1	22.25
				1	99	1	21.96
			16QAM	50	0	2	20.54
		(50	25	2	20.63
				50	49	2	20.99
			- C	100	0	2	20.76
				1.0	0 ⊚	0	23.27
	(8)			1	49	0 💿	23.12
	7.0		©	1	99	0	22.96
			QPSK	50	0	1	22.05
			6	50	25	1	22.05
	@			50	49	1	21.78
	20222	4745.0		100	0	1	21.97
	20300	1745.0	· (©	1	0	1	22.38
			·C	[®] 1	49	1	22.49
				. 1	99	1	22.52
			16QAM	50	0	2	21.15
				50	25	2 2	20.95
				50	49	2	20.99
				100	0	2	20.95



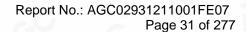


BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average powe (dBm)
				3 1	0	0	23.73
				1 8	37	0	23.46
				1	74	0	23.25
	0		QPSK	36	0	1	22.86
			Q. O.	36	16	1	22.41
				36	35	1	22.23
	20025	1717.5	60	75	₀ 0	1	22.52
	20025	1/1/.5		1	0	® 1	22.67
	C	8		1	37	1	22.45
		.C	®	1	74	1	22.24
			16QAM	36	0	2	22.62
				36	16	2	22.51
				36	35	2 🏻	22.23
			3	75	0	2	21.56
				® 1	0	0	22.30
			- 0	1	37	0	22.68
	CC.		QPSK	1.0	74	0	22.80
				36	0	1	21.25
				36	16	1	22.14
		75 1732.5		36	35	1	21.89
®				75	0	1	21.66
15MHz	20175		732.5 16QAM	1	0	1	21.36
	C	8		1	37	0 1	22.04
				1	74	1	21.90
				36	0	2	21.25
			7.00,	36	16	2	22.04
		0		36	35	2	22.20
			3	75	0	2	20.70
				1	0	0	22.77
				1	37	0	22.59
	@			1.0	74	0	22.78
		8	QPSK	36	0	1	21.89
	6		<u> </u>	36	16	1	21.92
	20325			36	35	1	22.07
				75	0	1	21.92
		1747.5		1	0	9 1	21.90
				1	37	1	21.74
			8	1	74	1	22.07
			16QAM	36	0	2	22.10
			IOQAW	36	16	2	21.70
	1	®		36	35	2	21.98
		>	®	75	0	2	21.02



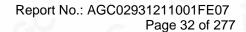


BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)
				1	0	0	23.75
				1 💿	24	0	23.59
				1	49	0	23.20
	(8)		QPSK	25	0	1	22.79
		(3)		25	12	_ (1)	22.79
				25	25	1	22.62
	20000	1715.0		50	0	1	22.76
	20000	1715.0		1	0	® 1	22.71
	G	®		1	24	1	22.87
		C	8	1	49	1	22.29
			16QAM	25	0	2	21.74
				25	12 🍵	2	21.83
				25	25	2 ®	21.66
			9	50	0	2	21.71
				1	0	0	22.14
			C	1	24	0	22.83
			QPSK	1	49	0	22.94
		@		25	0	1	21.65
				25	12	1	21.65
		6	- 6	25	25	1	21.99
400411-	20475	175 1732.5		50	0	1	21.73
10MHz	20175	1732.5		1	0	1	21.39
				1	24	1	22.10
				. 1	49	1	22.03
		0	16QAM	25	0	2	20.68
			< 0	25	12 💮	2	20.68
				25	25	2	20.97
			3	50	0	2	20.84
				1	0	0	22.90
				1	24	0	23.11
	@			1	49	0	23.07
	- 6	@	QPSK	25	0	1	21.96
		-6	8	25	12	1	21.97
	20350		-C	25	25	1	21.89
		1750.0		50	0	1	21.95
		1750.0		1	0	<u> </u>	21.72
				1	24	0 1	22.06
			(6)	1	49	1	22.00
			16QAM	25	0	2	21.06
				25	12	2	21.14
		3		25	25	2	20.88
			8	50	0	2	20.97



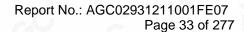


BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)
				1	0	0	23.71
				1	12	0	23.71
8	(8)			1.0	24	0	23.58
60	- 0	· (©)	QPSK	12	0	1	22.76
				12	6	1	22.74
®				12	_© 11	1	22.64
	10075	4740 E		25	0	® 1	22.64
	19975	1712.5		1	0	1	22.75
	7			。 1	12	1	22.44
		_ (1	24	1	22.73
			16QAM	12	0	2	21.81
C.C				12	6	2	21.80
				12	11	2	21.70
				25	0	2	21.81
	®			1	0	0 🏻	22.95
6	-0	©		1	12	0	22.95
				1	24	0	23.06
0	© C		QPSK	12	© O	1	21.69
				12	6	® 1	21.69
		®		12	11	1	21.87
51411	00475	4700 5		25	0	1	21.70
5MHz	20175	1732.5		1	0	1	21.54
	9			1	12	1	21.71
				1	24	1	21.80
		0	16QAM	12	0	2	20.83
(0)				12	6	2	20.83
	0			12	11	2	20.92
6	- C	@		25	0	2	20.89
				1	0	0	21.70
®				1	12	0	21.86
G	8			1	24	0	22.29
	C	(8)	QPSK	12	0	1	21.16
	_ (12	6	1	21.08
	20375			12	o 11	1	21.13
				25	0	1	21.06
10		1752.5		1	0	1	23.00
		1		1	12	1	22.95
		< C)		1 1	24	1	23.15
(8)			16QAM	12	0	2	22.04
60		@		12	6	2	21.94
	GU	- 6		12	11	2	21.97
				25	0	2	22.02



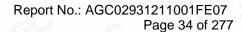


BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)
			<u>©</u>	1	0	0	23.58
				1	7	0	23.76
				1	14	0	23.62
	(8)		QPSK	8	0	1	22.72
		LGC		8	4	1	22.63
				8	7	1	22.75
	19965	1711.5		15	0	1	22.65
	19905	1/11.5		1	0	1	22.59
		C		1	7	1	22.64
				[®] 1	14	1	22.63
			16QAM	8	0	2	21.53
		3		8	4	2	21.53
				8	7	2	21.75
				15	0	2	21.83
				1.0	0	0	22.75
	(8)			1	7	0	22.86
	6			1	14	0	22.94
	00475		QPSK	8	0	1	21.73
				8	4	1	21.74
		8		8	7	1	21.88
3MHz		1732.5	8	15	0	1	21.81
SIVITIZ	20175		16QAM	1	0	1	21.92
				1	7	8 1	21.94
		3		1	14	1	22.10
				8	0	2	20.81
				8	4	2	20.91
			, G	8	7	2	21.13
		(8)		15	0	2 @	20.81
	G		@	1	0	0	23.00
				1 😞	7	0	22.80
	(8)			1	14	0	23.02
	C	8	QPSK	8	0	1	21.98
				8	4	1	21.89
	20385			8	7	1	21.95
		1753.5		15	0	1	21.88
		1733.3		1 (0	1	21.54
				1	7	1	21.73
				1	14	1	21.92
			16QAM	8	0 ®	2	20.95
	(3)			8	4	2	21.14
	60			8	7	2	21.03
				15	0	2	20.88





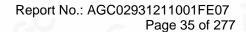
BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)
				9	0	0	23.44
GC 1		P.C.		1 8	2	0	23.51
				1	5	0	23.40
	- 0	8	QPSK	3	0	0	23.46
				3	1	0	23.46
				3	2	0	23.43
	19957	1710.7		6	0	1	22.58
	19957	17,10.7		1	0	_ 1	22.39
				_® 1	2	1	22.56
				1	9 5	1	22.65
			16QAM	3	0	1	22.30
				3	1	1	22.31
				3	2	1(0)	22.46
1.4MHz				6	0	2	21.55
	0	C.C		1	0	0 🍥	22.53
	a.C			1	2	2 0	22.70
				1	1 5 0	0	22.71
			QPSK	3	0	0	22.73
	8	1732.5		3	1	0	22.72
				3	2	- 0	22.56
	20175			6	0	1	21.70
1.4IVITZ	20175			. 6 1	0	1	21.92
				1	1 2 1	22.12	
			16QAM	1	5	1	21.79
				3	0	1	21.51
				3	1	1	21.42
	@			3	2	1	21.55
	a.C	(8)		6	0	2	20.66
		60		1	0	0	22.75
				11	2	0	22.82
	(6)	0		_ 1_	5	0	22.85
	U		QPSK	3	0	0	22.92
	(3	1	0	22.75
				3	₀ 2	0	22.91
	20393	1754.3		6	0	<u> </u>	21.89
	20393	1754.5	8	1	0	1	21.54
	\G			® 1	2	1	21.97
				1	5	1	21.74
	(3)		16QAM	3	0	1 💿	21.74
	-0	8		3	1	1	21.89
		a.C		3	2	1	22.13
				6	0	2	20.74





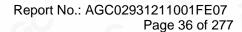
LTE Band 5

BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)
				1	0	0	23.19
		@		1	24	0	22.98
			@	1	49	0	23.35
		60	QPSK	25	0	1	22.31
				25	12	1	22.32
	8			25	25	_1	22.34
	20450	829		50	0	1	22.29
	20430	029		_ 1	0	1	22.47
				1	24	1	22.17
	0			1	49	® 1	22.48
		(8)	16QAM	25	0	2	21.35
			8	25	12	2	21.35
				25	25	2	21.35
				50	0	2	21.24
S _C C	®		QPSK	1	0	0 🌑	23.09
		(8)		1	24	0	23.65
		- 0		1	49	0	23.59
		836.5		25	0	1	22.38
				25	12	1	22.46
				25	25	1	22.70
101411-	20525		8	50	0	1	22.55
10MHz	20525		16QAM	® 1	0	1	22.09
				_ 1	24	1	22.84
	3			1	49	1	22.50
				25	0	2	21.63
				25	12	2	21.45
				25	25	2	21.69
				50	0	2	21.43
	8			1	0	0	23.86
	e.C	(8)		1	24	0	23.79
			(8)	1	49	0	23.93
			QPSK	25	0	1	22.83
	(8)			25	12	1	22.85
		8		25	25	1	22.96
	20600	011	@	50	0	1	22.81
	20600	844		_® 1	0	1	22.91
			6	1	24	1	23.01
				1	49	® 1	23.30
		8	16QAM	25	0	2	21.82
			(6)	25	12	2	21.89
				25	25	2	21.92
				50	0 🌑	2	21.88



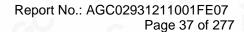


BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)
				1	0	0	24.06
			C	1	12	0	23.87
	0			1	24	0	23.71
	- 0	8	QPSK	12	0	1	23.10
		a.C	@	12	6	(1)	23.09
			60	12	₀ 11	1	22.92
	20425	996 F		25	0	® 1	22.96
	20425	826.5		1	0	<u> </u>	23.05
				。 1	12	1	22.60
		(30	1	24	1	22.67
			16QAM	12	0	2	22.14
			3	12	6	2	22.23
	10°			12	11	2	21.76
				25	0	2	22.12
	®			1	0	0 🌑	23.19
	- C	@		1	12	0	23.80
		a.C	8	1	24	0	23.53
			QPSK	12	₀ 0	1	22.43
	8			12	6	1	22.42
	C	8	(6)	12	11	. () 1	22.61
	20525	836.5	. C.	25	0	1	22.47
5MHz			16QAM	1	0	1	22.25
				1	12	1	22.51
				1	24	1	22.54
				12	0	2	21.46
				12	6	2	21.36
	©			12	11	2	21.65
	a.C	(3)		25	0	2	21.64
				1	0	0	23.82
			60	1	12	0	24.06
	8			1	24	0	24.04
			QPSK	12	0	1	22.76
	_ (©	12	6	1	22.78
			7	12	₀ 11	1	22.86
	20005	0.40.5		25	0	1	22.87
	20625	846.5	®	1	0	1 1	22.88
	.0			1	12	1	22.78
		< G'	- 0	1	24	1	22.75
	(2)		16QAM	12	0	2	21.78
		8		12	6	2	21.88
	6	-C	8	12	11	2	21.95
				25	0	2	21.78



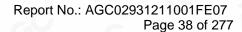


BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)
		NO.		9 1	0	0	23.86
			-6	1 8	7	0	23.91
				1	14	0	23.79
		<u>®</u>	QPSK	8	0	1	23.22
		a.C	8	8	4	1	23.20
			a.C	8	7	1	23.03
	00.445	005.5		15	0	1	23.12
	20415	825.5		1	0	1	22.94
			8	. 1	7	1	23.02
				1	14	1	22.88
			16QAM	8	0	2	22.21
			8	8	4	2	22.16
	V. C.	- (8	7	2	22.28
			0	15	0	2	22.29
	®			1	0	0 🌑	23.37
	- C	2G		1	1 7 0	23.42	
			8	1	14	0	23.55
			QPSK	8	0	1	22.51
	8	836.5		8	4	1	22.51
	C			8	7	1	22.59
01411-	20525			o 15	0	1	22.56
3MHz				1	0	1	22.33
				1	7	1	22.47
			16QAM	1	14	1	22.73
				8	0	2	21.61
				8	4	2	21.62
	®			8	7	2	21.77
	-C	®		15	0	2	21.64
		60		1	0	0	23.72
			- GU	1	7	0	23.80
	0			1	14	0	24.02
		(8)	QPSK	8	0	_ 1	22.80
	((6)	8	4	1	22.91
			60	8	0 7	1	22.95
	00005	0.47.5		15	0	® 1	22.89
	20635	847.5		1	0	1	22.44
	- Cal			® 1	7	1	22.57
				1	14	1	22.96
	0		16QAM	8	0	2	21.75
		8		8	4	2	21.84
		-6	8	8	7	2	21.98
			-C	15	0	2	21.84





BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)
	- 6	/		9 1	0	0	23.97
(6)				1 8	2	0	24.06
	(8)			1	5	0	23.90
	- 0	@	QPSK	3	0	0	23.98
		-C	8	3	1	0	24.05
			- 60	3	2	0	24.04
	20407	824.7		6	0	1	23.17
	20407	024.7		1	0	1	23.04
				_® 1	2	1	23.26
				1	9 5	1	23.06
			16QAM	3	0	1	22.78
			8	3	1	1 1	22.87
	- C	-0		3	2	1 (1)	22.80
				6	0	2	22.13
	8	0	10	1	0	0 💿	23.32
30	-C			1	2	0	23.71
		<i>a.</i> C	8	1	5	0	23.52
			QPSK	3	0	0	23.51
	8	836.5		3	1	0	23.61
	C		@	3		23.47	
	00505			6	0	1	22.55
1.4MHz	20525			1	0	1	22.51
				1	2	1	22.58
			16QAM	1	5	1	22.71
				3	0	1	22.19
				3	1	1	22.30
	@			3	2	1	22.36
	-C	8		6	0	2	21.61
				1	0	0	23.74
			10°	1	2	0	23.87
	8				5	0	23.76
	O		QPSK	3	0	0	23.86
	_ ((6)	3	1	0	23.77
			7	3	0 2	0	23.87
	20040	040.0		6	0	1	22.92
	20643	848.3	@	1	0	1	22.77
	. (1)			® 1	2	1 (22.82
			- (1	5	1	22.84
	(2)		16QAM	3	0	1 (8)	22.69
		©		3	1	1	22.79
		-6	8	3	2	1	22.89
			-C	6	0	2	21.94

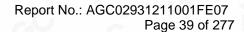




LTE Band 12

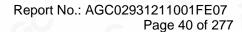
	8			LTE Band 12	· (c)		
BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)
(0)				1	0	0	23.41
	· ·			1	24	0	23.35
GO :		8		1	49	0	23.64
	6		QPSK	25	0	1	22.41
			-6	25	12	1	22.49
				25	25	1	22.69
	22060	704.0		50	0	1	22.54
	23060	704.0	®	1	0	1	22.39
	0			® 1	24	1	22.50
		_ (1	49	1	22.64
			16QAM	25	0	2	21.30
		3		25	12	2	21.46
		1	3	25	25	2	21.57
				50	0	2	21.45
				1	0	0	23.42
	@			1	24	0	23.82
	- C	(8)		1	49	0	23.61
		-G	QPSK	25	0	0 1	22.47
		707.5	SOC :	25	12	1	22.56
	@			25	25	_ 1	22.70
	G			50	0	1	22.55
10MHz	23095 707.		.5 16QAM	1	0	1	22.18
				® 1	24	1	22.96
				1	49	1	22.64
				25	0	2	21.76
				25	12	2	21.39
				25	25	2	21.73
				50	0	2	21.48
			- G	1	0 🏻	0	23.46
	@			1	24	0	23.80
	-C	0		1	49	0	23.35
			QPSK	25	0	1	22.66
			α. οι τ	25	12	1	22.68
	©			25	25	1	22.67
	C	@		50	0	1	22.56
	23130	711.0	· · · · · · · · · · · · · · · · · · ·	1	0	1	22.91
				1	24	1	23.49
				G 1	49	1	22.38
			16QAM	25	0	2	21.68
		8	IUQAWI	25	12	2	21.68
			(8)	25	25	2	21.62
			1	50	0	2	21.65
				30	U		21.00

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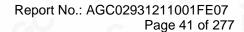


BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)
			0	1	0	0	23.38
		100		1	12	0	23.35
®			QPSK	1	24	0	23.43
a.C	@			12	0	1	22.53
		(8)		12	6	1	22.53
		60	- 6	12	13	1	22.35
8	00005	704.5		25	0	1	22.35
	23035	701.5		1	0	1	22.06
' < (. C	©	1	12	1	22.16
			- C	1	24	1	22.44
,	3		16QAM	12	0	2	21.60
		3		12	6	2	21.48
	- 60			12	13	2	21.42
			1	25 🌼	0	2	21.45
@				1.0	0	0	23.53
60	8	CC		1	12	0	23.87
,C	GU		@	1	24	0	23.82
			QPSK	12	0	1	22.57
	®			12	6	® 1	22.57
	C	8		12	13	1	22.70
= 1 41 1	20005	707.5	©	25	0	1	22.51
5MHz	23095		30	1	0	1	22.29
				1	12	1	22.76
				1	24	1	22.70
	- 6		16QAM	12	0	2	21.51
				12	6	2	21.51
(8)	(8)			12	13	2	21.75
60		(8)		25	0	2	21.56
	CO		8	1	0	0	23.86
®			60	1	12	0	23.50
C	8			1	24	0	23.50
	C	8	QPSK	12	0	1	22.69
	1		8	12	6	1	22.71
			-,0	12	13	1	22.58
	00455	740 -		25	0	1	22.66
.0	23155	713.5		1	0	1	22.72
				1	12	1	22.57
		< G		1 8	24	1	22.48
8			16QAM	12	0	2	21.82
60		8		12	6	2	21.65
		a.C	(8)	12	13	2	21.43
			-C	25	0	2	21.70





BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)
		C		9 1	0	0	23.32
				1	7	0	23.44
				1	14	0	23.36
		©	QPSK	8	0	1	22.59
		a.C		8	4	1	22.59
				8	7	1	22.43
	22025	700.5		15	0	1	22.43
	23025	700.5		1	0	1	22.56
				_® 1	7	1	22.63
				1	9 14	1	22.44
			16QAM	8	0	2	21.68
				8	4	2	21.43
		_ (8	7	2	21.64
				15	0	2	21.48
	8			1	0	0	23.69
	- 6	e C		1	7	0	23.89
				1	14	0	23.88
			QPSK	8	0	1	22.55
	0	707.5		8	4	1	22.55
	C			8	7	1	22.81
3MHz	23095			₀ 15	0	1	22.56
SIVIMZ				1	0	1	22.26
				1	7	1	22.55
			16QAM	1	14	1	22.59
				8	0	2	21.76
				8	4	2	21.55
	@			8	7	2	21.60
	-C	8		15	0	2	21.55
				1	0	0	23.86
				1	7	0	23.41
	(8)			1	14	0	23.56
	O		QPSK	8	0	1	22.73
	_ (8	4	1	22.74
				8	_® 7	1	22.65
	22405	7445		15	0	1	22.67
	23165	714.5	®	1	0	1	22.80
	. (1)	1		1	7	1	22.50
		\ G		1	14	1	22.71
	(0)		16QAM	8	0	2	21.73
		©		8	4	2	21.92
	C	-C		8	7	2	21.84
				15	0	2	21.69





BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)
	.0	- (0 1	0	0	23.34
				1	2	0	23.49
GÖ	8			1	5	0	23.27
	- 0	©	QPSK	3	0	0	23.36
		-C	8	3	1	0	23.35
			- 60	3	2	0	23.49
	23017	699.7		6	0	1	22.46
	23017	099.7	@	1	0	1	22.36
				_® 1	2	1	22.81
				. 1	9 5	1	22.47
			16QAM	3	0	8 1	22.25
			©	3	1	1	22.25
		0		3	2	1	22.22
				6	0	2	21.67
	®			1	0	0 @	23.47
	C	@		1	2	0	23.76
			(8)	1	5	0	23.54
			QPSK	3	0	0	23.64
	8			3	1	0	23.55
		8	(8)	3	2	0	23.70
1.4MHz	23095	707.5	-C	6	0	1	22.68
1.4IVIIIZ	23095			. 6 1	0	1	22.73
		3		1	2	1	22.62
			®	1	5	1	22.76
			16QAM	3	0	1	22.45
				3	1	1	22.56
	©			3	2	1	22.28
	<i>z</i> .C	8		6	0	2	21.33
				1	0	0	24.76
			10°	11	2	0	24.82
	(3)	(8)		1	5	0	25.09
	V		QPSK	3	0	0	24.81
				3	1	0	24.81
				3	。 2	0	24.90
	23173	715.3		6	0	<u> </u>	23.88
	20170	7 13.3	8	1	0	1	24.07
	\C\			1	2	1	24.35
				1	5	1	23.83
	(8)		16QAM	3	0	1	23.61
	-6	8		3	1	1	23.89
		-C	8	3	2	1	23.70
				6	0	2	22.89



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LTE Band 13

	<u>(S)</u>						
BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)
				1	0	0	22.92
	@			1	24	0	22.74
		@		1	49	0	22.97
		SGC .	QPSK	25	0	1	21.94
			COC	25	12	1	21.94
				25	25	1	22.09
40141	00000			50	0	1	21.93
10MHz	23230	782.0	@	1	0	1	21.72
				0 1	24	1	22.08
		_ (1	49	1	22.21
			16QAM	25	0 @	2	20.76
~GQ				25	12	2	20.92
			3	25	25	2	21.14
			1	50	0	2	20.97