



TEST REPORT

REPORT NUMBER: I23W00033-RF-FCC-Rev2

ON

Type of Equipment:	Tracker
Type of Designation:	PT201B
Brand Name:	Prime
Manufacturer:	Micron Electronics LLC.
FCC ID:	ZKQ-AHALO

ACCORDING TO

FCC CFR Part 2

PART 24

PART 27

PART 90

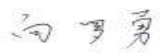
ANSI C63.26-2015

Chongqing Academy of Information and Communications Technology

Month date, year

Aug.22,2023

Signature



Xiang Luoyong

Director

Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of Chongqing Academy of Information and Communications Technology.



Report No.: I23W00033-RF-FCC-Rev2

Revision Version

Report Number	Revision	Date
I23W00033-RF-FCC	00	2023-07-31
I23W00033-RF-FCC-Rev1	01	2023-08-15
I23W00033-RF-FCC-Rev2	02	2023-08-22

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1. Test Laboratory

1.1. Testing Location

Name:	Chongqing Academy of Information and Communications Technology
Designation Number:	CN1239
Address:	No.19EastRoad,Xiantao Big-data Valley,Yubei District, Chongqing,People's Republic of China
	Building C, Technology Innovation Center, No.8, Yuma Road, Chayuan New Area, Nan'an District, Chongqing, People's Republic of China
Postal Code:	401336
Telephone:	0086-23-88069965
Fax:	0086-23-88608777

1.2. Testing Environment

Normal Temperature:	15-35°C
Relative Humidity:	30-60%

1.3. Project data

Testing Start Date:	2023-07-12
Testing End Date:	2023-07-21

1.4. Signature

	2023-08-22
Dong Junxin (Prepared this test report)	Date
	2023-08-22
Li Xu (Reviewed this test report)	Date
	2023-08-22
Xiang Luoyong Director of the laboratory (Approved this test report)	Date

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2. Client Information

2.1. Applicant Information

Company Name:	Micron Electronics LLC.
Address /Post:	1001 Yamato Road, Suite 400, Boca Raton, FL 33431, USA
City:	Boca Raton
Country:	USA
Telephone:	+1 888 538 3489
Fax:	--
Email:	pcheng@micron-electronics.com
Contact Person:	Ping Cheng

2.2. Manufacturer Information

Company Name:	Micron Electronics LLC.
Address /Post:	1001 Yamato Road, Suite 400, Boca Raton, FL 33431, USA
City:	Boca Raton
Country:	USA
Telephone:	+1 888 538 3489
Fax:	--
Email:	pcheng@micron-electronics.com
Contact Person:	Ping Cheng

3. Equipment under Test (EUT) and Ancillary Equipment (AE)

3.1. About EUT

EUT Description	Tracker
Model name	PT201B
Brand name	Prime
LTE Frequency Band	2/4/12/14/66
Type of modulation	QPSK/16QAM
Extreme Temperature	-10/+60°C
Nominal Voltage	3.8
Extreme High Voltage	4.2
Extreme Low Voltage	3.5

Note: Photographs of EUT are shown in ANNEX A of this test report.

Note: High and low voltage values in extreme condition test are given by manufacturer.

3.2. Internal Identification of EUT used during the test

EUT ID	SN or IMEI	HW Version	SW Version	Date of receipt
S1	IMEI:353258109995164	A506_V1_PCBA	PT201BV01.01B04.I01	2023-07-12
S6	IMEI:353258101297653	A506_V1_PCBA	PT201BV01.01B04.I01	2023-07-12

*EUT ID: is used to identify the test sample in the lab internally.

3.3. Outline of Equipment under Test

Technology	Band	UL Freq.(MHz)	DL Freq.(MHz)	Note
LTE	Band2	1850 – 1910	1930 – 1990	--
	Band4	1710 – 1755	2110 – 2155	--
	Band12	699 – 716	729 – 746	--
	Band14	788-798	758-768	--
	Band66	1710-1780	2110-2200	--

3.4. Internal Identification of AE used during the test

*AE ID: is used to identify the test sample in the lab internally.

AE ID*	Description	Manufacturer	Model	Length
--	--	--	--	--

AE info are provided customer.

4. Reference Documents

4.1. Documents supplied by applicant

PICS/PIXIT, referring to Annex B for detailed information, is supplied by the client or manufacturer, which is the basis of testing.

4.2. Reference Documents for testing

The following documents listed in this section are referred for testing.

Reference	Title	Version
FCC CFR Part 2	FREQUENCY ALLOCATIONS AND RADIO TREATY MATTERS; GENERAL RULES AND REGULATIONS, e-CFR	--
PART 24	PERSONAL COMMUNICATIONS SERVICES,e-CFR,	--
PART 27	,MISCELLANEOUS WIRELESS OMMUNICATIONS SERVICES, e-CFR,	--
PART 90	PRIVATE LAND MOBILE RADIO SERVICES	--
ANSI C63.26	American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services	2015

5. Test Equipments Utilized

5.1. RF Test System

No.	Equipment	Model	SN	HW Version	SW Version	Manufacture	Cal.Due Date
1	Universal Radio Communication Tester	CMW500	152395	--	--	R&S	2024-06-28
2	DC Power Supply	62015L-60-6	L02000001587	--	--	Chroma	2024-06-28

5.2. RSE Test System

No.	Equipment	Model	SN	HW Version	SW Version	Manufacture	Cal.Due Date
1	Universal Radio Communication Tester	CMW500	128181	--	--	R&S	2024-06-28
2	Test Receiver	ESU40	100350	01	4.43 SP3	R&S	2024-06-28
3	Test Receiver	ESW 26	101382	00	1.50 SP1	R&S	2024-06-28
4	Ultra-wideband Log Periodic Antenna	VULB 9163	9163-586	--	--	Schwarzbeck	2024-10-28
5	Double Ridged Guide Antenna	9120D	9120D-1083	--	--	Schwarzbeck	2024-12-14
6	Ultra-wideband Log Periodic Antenna	VULB 9163	01392			Schwarzbeck	2025-05-04
7	Double Ridged Guide Antenna	9120D	9120D-1103	--	--	Schwarzbeck	2024-05-05
8	High gain horn antenna	DATE 1152	LM7127			ETS	2024-09-06
9	Fully-Anechoic Chamber	FAC5	--	--	--	TDK	2024-09-22
10	Generator	SMU 200A	104517	--	--	R&S	2024-06-28
11	Amplifier1	SCU-08F1	8320027	--	--	R&S	--
12	Amplifier2	SCU-18F	180093	--	--	R&S	--
13	Test Receiver	ESR 3	101382	03	3.48 SP2	R&S	2024-06-28
14	LISN	ENV216	102368	--	--	R&S	2024-05-27

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5.3. Climate Chamber

No.	Name	Type	SN	Manufacture	Cal.Due Date
1	Fully anechoic chamber	FAC-5	--	TDK	2024-08-30
2	Fully anechoic chamber	SAC10	--	TDK	2026-08-26

5.4. Vibration table

No.	Name	Type	SN	Manufacture	Cal.Due Date
-	--	--	--	--	--

Anechoic chamber

Fully anechoic chamber by ETS-LINDGREN.

5.5. Test software

No.	Name	version	SN	Manufacture
1	EMC32	V 9.26.01	--	R&S
2	EMC32	V10.20.01	--	R&S

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6. Test Results

6.1. Summary of Test Results

A brief summary of the tests carried out is shown as following.

FCC Rules	Name of Test	Result
2.1046,24.232(c),27.50,90.542(a)(7)	Conducted RF Power Output	Pass ^{Note1/2}
2.1046,24.232(c),27.50,90.542(a)(7)	ERP and EIRP	Pass
2.1049, 24.238(b)	Occupied Bandwidth	Pass ^{Note2}
2.1049, 24.238(b)	Emission Bandwidth	Pass ^{Note2}
2.1051,24.238,2.1053, 27.53,90.543(e)	Conducted spurious emissions	Pass ^{Note2}
2.1051,24.238,2.1053, 27.53,90.543(e)	Radiated Spurious Emission	Pass
2.1051,2.1053,27.53,90.543(e)	Band Edge	Pass ^{Note2}
2.1055, 24.235, 27.54,90.539	Frequency Stability	Pass ^{Note2}
24.232, 27.50	Peak to Average Ratio	Pass ^{Note2}
Note1: Power test selected only part of the mode, data source reference to the original report 18C0042R-HPUSP35V00. Note2: The test data comes from the module report 1870209R-HPUSP17V00-A that issued by Hsin Chu Laboratory Taiwan.		

6.2. Conducted RF Power Output

Specifications:	FCC Part 2.1046,24.232(c),27.50,90.542(a)(7)
DUT Serial Number:	SN:U4K22102000013
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	Pass

Limit Level Construction:

According to Part 24.232(c), mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

According to Part 27.50(c), portable stations (hand-held devices) in the 600 MHz uplink Band and the 698-746 MHz Band, and fixed and mobile stations in the 600 MHz uplink Band are limited to 3 watts ERP.

According to Part 27.50(d), fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz Band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz Bands are limited to 1 watt EIRP.

According to Part 90.542(a)(7), Portable stations (hand-held devices) transmitting in the 758–768 MHz band and the 788–798 MHz band are limited to 3 watts ERP.

Measurement Uncertainty:

Item	Uncertainty
Expanded Uncertainty	0.62 dB (k=2)

Test Setup:

During the test, the EUT was controlled via the Wireless Telecommunications Test Set to ensure max power transmission and proper modulation



Test Method:

The EUT is connected to the Universal Radio Communication Tester through the RF cable, and the average power and peak power are obtained through the Universal Radio Communication Tester

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Original data:

LTE B2:

Band	Channel Freq. (MHz)	Modulation	RB No.	RB offset	MPR	Conducted Output Power (dBm)
Band 2 / 1.4MHz	CH 18607 1850.7MHz	QPSK	1	0	0	24.52
				2		24.39
				5		24.41
			3	0	0	23.51
				1		23.52
				3		23.65
		16-QAM	6	0	1	23.49
			1	0	1	23.51
				2		23.48
				5		23.48
			3	0	1	22.24
				1		22.15
				3		22.14
Band 2 / 1.4MHz	CH 18900 1880MHz	QPSK	1	0	0	24.85
				2		24.82
				5		24.83
			3	0	0	23.80
				1		23.78
				3		23.79
		16-QAM	6	0	1	23.78
			1	0	1	24.19
				2		24.10
				5		24.10
			3	0	1	22.64
				1		22.61
				3		22.56
Band 2 / 1.4MHz	CH 19193 1909.3MHz	QPSK	1	0	0	24.51
				2		24.43
				5		24.40
			3	0	0	23.58
				1		23.58
				3		23.60

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			6	0	1	23.42
			1	0	1	23.18
				2		23.14
				5		23.06
			3	0	1	22.65
				1		22.64
				3		22.66
			6	0	2	22.54
			16-QAM	1	0	24.40
						24.36
						24.36
Band 2 / 3MHz	CH 18607 1850.7MHz	QPSK	8	0	1	23.45
				4		23.42
				7		23.36
			15	0	1	23.37
		16-QAM	1	0	1	23.98
				7		23.95
				14		23.88
			8	0	2	22.70
				4		22.68
				7		22.68
			15	0	2	22.60
Band 2 / 3MHz	CH 18900 1880MHz	QPSK	1	0	0	24.52
				7		24.50
				14		24.42
			8	0	1	23.58
				4		23.55
				7		23.51
			15	0	1	23.41
		16-QAM	1	0	1	23.56
				7		23.42
				14		23.44
			8	0	2	22.72

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Band 2 / 3MHz	CH 19193 1909.3MHz	QPSK	15	4	2	22.56
				7		22.58
				0		22.56
			1	0	0	24.38
				7		24.34
				14		24.32
			8	0	1	23.36
				4		23.37
				7		23.46
			15	0	1	23.34
		16-QAM	1	0	1	23.51
				7		23.48
				14		23.40
			8	0	2	22.47
				4		22.43
				7		22.44
			15	0	2	22.42
Band 2 / 5MHz	CH 18625 1852.5MHz	QPSK	1	0	0	24.35
				12		24.31
				24		24.27
			12	0	1	23.36
				6		23.40
				11		23.49
			25	0	1	23.32
		16-QAM	1	0	1	23.05
				12		22.99
				24		23.01
			12	0	2	22.33
				6		22.33
				11		22.36
			25	0	2	22.22
Band 2 / 5MHz	CH 18900 1880MHz	QPSK	1	0	0	24.68
				12		24.65

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			12	24	1	24.64
				0		23.62
				6		23.57
				11		23.57
			25	0	1	23.57
		16-QAM	1	0	1	23.16
				12		23.12
				24		23.10
			12	0	2	22.73
				6		22.66
				11		22.63
			25	0	2	22.60
Band 2 / 5MHz	CH 19175 1907.5MHz	QPSK	1	0	0	24.36
				12		24.34
				24		24.30
			12	0	1	23.15
				6		23.17
				11		23.20
			25	0	1	23.17
		16-QAM	1	0	1	23.21
				12		23.16
				24		23.13
			12	0	2	22.60
				6		22.55
				11		22.56
			25	0	2	22.43
Band 2 / 10MHz	CH 18650 1855MHz	QPSK	1	0	0	24.30
				24		24.20
				49		24.21
			25	0	1	23.28
				12		23.24
				24		23.20
			50	0	1	23.20

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Band 2 / 10MHz	CH 18900 1880MHz	16-QAM	1	0	1	23.60
				24		23.52
				49		23.54
			27	0	2	22.43
				12		22.43
				23		22.61
		QPSK	1	0	0	24.57
				24		24.51
				49		24.50
			25	0	1	23.47
				12		23.38
				24		23.37
			50	0	1	23.37
		16-QAM	1	0	1	23.58
				24		23.54
				49		23.53
			27	0	2	22.81
				12		22.87
				23		22.95
Band 2 / 10MHz	CH 19150 1905MHz	QPSK	1	0	0	24.53
				24		24.49
				49		24.42
			25	0	1	23.40
				12		23.38
				24		23.49
			50	0	1	23.36
		16-QAM	1	0	1	23.37
				24		23.34
				49		23.34
			27	0	2	22.54
				12		22.55
				23		22.65
Band 2 / 15MHz	CH 18675 1857.5MHz	QPSK	1	0	0	24.42
				37		24.40

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			36	74	1	24.39
				0		23.50
				19		23.46
				38		23.39
			75	0	1	23.39
		16-QAM	1	0	1	23.73
				37		23.64
				74		23.62
			27	0	2	22.36
				24		22.34
				48		22.35
Band 2 / 15MHz	CH 18900 1880MHz	QPSK	1	0	0	24.69
				37		24.67
				74		24.67
			36	0	1	23.67
				19		23.63
				38		23.61
			75	0	1	23.55
		16-QAM	1	0	1	23.68
				37		23.63
				74		23.62
			27	0	2	22.77
				24		22.81
				48		22.86
Band 2 / 15MHz	CH 19125 1902.5MHz	QPSK	1	0	0	24.74
				37		24.69
				74		24.67
			36	0	1	23.81
				19		23.81
				38		23.83
			75	0	1	23.70
		16-QAM	1	0	1	23.18
				37		23.12

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				74		23.10
			27	0	2	22.53
				24		22.51
				48		22.52
Band 2 / 20MHz	CH 18700 1860MHz	QPSK	1	0	0	24.21
				49		24.17
				99		24.11
			50	0	1	23.08
				25		23.09
				49		23.26
			100	0	1	23.09
		16-QAM	1	0	1	23.93
				49		23.88
				99		23.87
			27	0	2	22.27
				36		22.26
				73		22.28
Band 2 / 20MHz	CH 18900 1880MHz	QPSK	1	0	0	24.60
				49		24.53
				99		24.49
			50	0	1	23.55
				25		23.52
				49		23.52
			100	0	1	23.49
		16-QAM	1	0	1	24.24
				49		24.21
				99		24.20
			27	0	2	22.52
				36		22.61
				73		22.68
Band 2 / 20MHz	CH 19100 1900MHz	QPSK	1	0	0	24.69
				49		24.58
				99		24.57

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			50	0	1	23.59
				25		23.63
				49		23.66
			100	0	1	23.56
		16-QAM	1	0	1	24.19
				49		24.11
				99		24.07
			27	0	2	22.55
				36		22.54
				73		22.59

LTE B4:

Band	Channel Freq. (MHz)	Modulation	RB No.	RB offset	MPR	Conducted Output Power (dBm)
Band 4 / 1.4MHz	CH 19957 1710.7MHz	QPSK	1	0	0	23.35
				2		23.28
				5		23.26
			3	0	0	22.28
				1		22.27
				3		22.30
			6	0	1	22.16
		16-QAM	1	0	1	22.53
				2		22.50
				5		22.46
			3	0	1	21.70
				1		21.63
				3		21.63
			6	0	2	21.60
Band 4 / 1.4MHz	CH 20175 1732.5MHz	QPSK	1	0	0	23.40
				2		23.33
				5		23.29
			3	0	0	22.36
				1		22.36
				3		22.39

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Band 4 / 1.4MHz	CH 20393 1754.3MHz	16-QAM	6	0	1	22.30
			1	0	1	22.57
				2		22.50
				5		22.45
			3	0	1	21.70
				1		21.68
				3		21.67
			6	0	2	21.61
			QPSK	1	0	23.67
						23.64
						23.64
				3	0	22.66
						22.66
						22.82
				6	1	22.65
Band 4 / 3MHz	CH 19965 1711.5MHz	16-QAM	1	0	1	23.03
				2		23.00
				5		22.99
			3	0	1	21.65
				1		21.63
				3		21.66
			6	0	2	21.51
			QPSK	1	0	23.39
						23.33
						23.28
				8	1	22.34
						22.34
						22.37
				15	1	22.22
		16-QAM	1	0	1	22.56
				7		22.53
				14		22.47
			8	0	2	21.43

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				4		21.41
				7		21.41
			15	0	2	21.43
Band 4 / 3MHz	CH 20175 1732.5MHz	QPSK	1	0	0	23.31
				7		23.28
				14		23.27
			8	0	1	22.28
				4		22.26
				7		22.25
			15	0	1	22.18
		16-QAM	1	0	1	22.81
				7		22.74
				14		22.75
			8	0	2	21.52
				4		21.64
				7		21.66
			15	0	2	21.49
Band 4 / 3MHz	CH 20385 1753.5MHz	QPSK	1	0	0	23.68
				7		23.61
				14		23.61
			8	0	1	22.81
				4		22.75
				7		22.64
			15	0	1	22.65
		16-QAM	1	0	1	23.10
				7		23.06
				14		23.02
			8	0	2	21.72
				4		21.73
				7		21.75
			15	0	2	21.73
Band 4 / 5MHz	CH 19975 1712.5MHz	QPSK	1	0	0	23.27
				12		23.23

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			12	24	1	23.24		
				0		22.44		
				6		22.41		
				11		22.43		
			25	0	1	22.26		
		16-QAM	1	0	1	22.83		
				12		22.78		
				24		22.78		
			12	0	2	21.65		
				6		21.62		
				11		21.64		
			25	0	2	21.51		
		Band 4 / 5MHz	CH 20175 1732.5MHz	QPSK	1	0	0	23.41
						12		23.37
24	23.34							
12	0				1	22.46		
	6					22.33		
	11					22.30		
25	0				1	22.30		
16-QAM	1			0	1	22.12		
				12		22.06		
				24		22.07		
	12			0	2	21.52		
				6		21.49		
				11		21.51		
	25			0	2	21.47		
Band 4 / 5MHz	CH 20375 1752.5MHz	QPSK	1	0	0	23.71		
				12		23.68		
				24		23.68		
			12	0	1	22.73		
				6		22.66		
				11		22.63		
			25	0	1	22.62		

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		16-QAM	1	0	1	22.56
				12		22.50
				24		22.50
			12	0	2	22.02
				6		22.00
				11		22.02
			25	0	2	21.89
Band 4 / 10MHz	CH 20000 1715MHz	QPSK	1	0	0	23.43
				24		23.38
				49		23.33
			25	0	1	22.40
				12		22.40
				24		22.44
			50	0	1	22.36
		16-QAM	1	0	1	22.37
				24		22.35
				49		22.33
			27	0	2	21.48
				12		21.33
				23		21.34
Band 4 / 10MHz	CH 20175 1732.5MHz	QPSK	1	0	0	23.36
				24		23.30
				49		23.32
			25	0	1	22.17
				12		22.25
				24		22.35
			50	0	1	22.19
		16-QAM	1	0	1	22.35
				24		22.33
				49		22.27
			27	0	2	21.57
				12		21.50
				23		21.51

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Band 4 / 10MHz	CH 20350 1750MHz	QPSK	1	0	0	23.64
				24		23.59
				49		23.59
			25	0	1	22.66
				12		22.64
				24		22.66
			50	0	1	22.59
		16-QAM	1	0	1	23.08
				24		23.04
				49		23.05
			27	0	2	21.74
				12		21.75
				23		21.80
Band 4 / 15MHz	CH 20025 1717.5MHz	QPSK	1	0	0	23.31
				37		23.24
				74		23.22
			36	0	1	22.15
				19		22.20
				38		22.22
			75	0	1	22.13
		16-QAM	1	0	1	22.22
				37		22.12
				74		22.12
			27	0	2	21.40
				24		21.34
				48		21.35
Band 4 / 15MHz	CH 20175 1732.5MHz	QPSK	1	0	0	23.27
				37		23.22
				74		23.20
			36	0	1	22.30
				19		22.27
				38		22.16
			75	0	1	22.15

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Band 4 / 15MHz	CH 20325 1747.5MHz	16-QAM	1	0	1	22.34
				37		22.31
				74		22.31
			27	0	2	21.48
				24		21.40
				48		21.40
		QPSK	1	0	0	23.63
				37		23.58
				74		23.56
			36	0	1	22.75
				19		22.65
				38		22.64
			75	0	1	22.58
		16-QAM	1	0	1	23.33
				37		23.22
				74		23.22
			27	0	2	21.85
				24		21.73
				48		21.67
Band 4 / 20MHz	CH 20050 1720MHz	QPSK	1	0	0	23.37
				49		23.29
				99		23.27
			50	0	1	22.37
				25		22.35
				49		22.39
			100	0	1	22.34
		16-QAM	1	0	1	22.59
				49		22.55
				99		22.52
			27	0	2	21.45
				36		21.42
				73		21.42

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Band 4 / 20MHz	CH 20175 1732.5MHz	QPSK	1	0	0	23.13
				49		23.04
				99		23.03
			50	0	1	22.19
				25		22.21
				49		22.25
			100	0	1	22.12
		16-QAM	1	0	1	22.71
				49		22.64
				99		22.66
			27	0	2	21.59
				36		21.55
				73		21.56
Band 4 / 20MHz	CH 20300 1745MHz	QPSK	1	0	0	23.66
				49		23.63
				99		23.64
			50	0	1	22.49
				25		22.52
				49		22.54
			100	0	1	22.48
		16-QAM	1	0	1	23.18
				49		23.15
				99		23.15
			27	0	2	21.66
				36		21.64
				73		21.66

LTE B12:

Band	Channel Freq. (MHz)	Modulation	RB No.	RB offset	MPR	Conducted Output Power (dBm)
Band 12 / 1.4MHz	CH 23017 699.7MHz	QPSK	1	0	0	24.98
				2		24.95
				5		24.93

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			3	0	0	24.01
				1		23.97
				3		23.98
			6	0	1	23.88
		16-QAM	1	0	1	23.80
				2		23.70
				5		23.72
			3	0	1	22.79
				1		22.78
				3		22.83
			6	0	2	22.65
Band 12 / 1.4MHz	CH 23097 707.5MHz	QPSK	1	0	0	24.16
				2		24.10
				5		24.06
			3	0	0	23.15
				1		23.14
				3		23.17
			6	0	1	23.13
		16-QAM	1	0	1	22.92
				2		22.87
				5		22.87
			3	0	1	21.89
				1		21.87
				3		21.87
			6	0	2	21.80
Band 12 / 1.4MHz	CH 23173 715.3MHz	QPSK	1	0	0	24.67
				2		24.63
				5		24.62
			3	0	0	23.52
				1		23.52
				3		23.56
			6	0	1	23.49
		16-QAM	1	0	1	23.56

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				2		23.47
				5		23.48
				0		22.33
			3	1	1	22.40
				3		22.50
			6	0	2	22.35
Band 12 / 3MHz	CH 23025 700.5MHz	QPSK	1	0	0	24.82
				7		24.79
				14		24.78
			8	0	1	23.84
				4		23.80
				7		23.82
			15	0	1	23.66
		16-QAM	1	0	1	23.70
				7		23.58
				14		23.59
			8	0	2	22.78
				4		22.78
				7		22.83
			15	0	2	22.68
Band 12 / 3MHz	CH 23095 707.5MHz	QPSK	1	0	0	24.10
				7		24.03
				14		24.03
			8	0	1	23.02
				4		23.00
				7		23.01
			15	0	1	22.92
		16-QAM	1	0	1	22.84
				7		22.77
				14		22.76
			8	0	2	21.89
				4		21.87
				7		21.90

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			15	0	2	21.77
Band 12 / 3MHz	CH 23165 714.5MHz	QPSK	1	0	0	24.02
				7		23.96
				14		23.94
			8	0	1	23.00
				4		23.09
				7		23.12
			15	0	1	22.99
		16-QAM	1	0	1	22.74
				7		22.70
				14		22.70
			8	0	2	21.59
				4		21.70
				7		21.72
			15	0	2	21.58
Band 12 / 5MHz	CH 23035 701.5MHz	QPSK	1	0	0	24.95
				12		24.91
				24		24.83
			12	0	1	23.91
				6		23.89
				11		23.94
			25	0	1	23.78
		16-QAM	1	0	1	23.72
				12		23.69
				24		23.68
			12	0	2	22.74
				6		22.72
				11		22.76
			25	0	2	22.68
Band 12 / 5MHz	CH 23095 707.5MHz	QPSK	1	0	0	24.07
				12		24.02
				24		24.03
			12	0	1	22.98

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				6	1	23.01
				11		23.07
			25	0		22.93
		16-QAM	1	0	1	22.77
				12		22.70
				24		22.72
			12	0	2	21.65
				6		21.63
				11		21.65
			25	0	2	21.61
Band 12 / 5MHz	CH 23155 713.5MHz	QPSK	1	0	0	23.99
				12		23.90
				24		23.87
			12	0	1	22.81
				6		22.80
				11		22.83
			25	0	1	22.79
		16-QAM	1	0	1	22.70
				12		22.67
				24		22.60
			12	0	2	21.64
				6		21.65
				11		21.67
			25	0	2	21.58
Band 12 / 10MHz	CH 23060 704MHz	QPSK	1	0	0	24.59
				24		24.52
				49		24.48
			25	0	1	23.49
				12		23.45
				24		23.40
			50	0	1	23.34
		16-QAM	1	0	1	24.05
				24		23.99

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Band 12 / 10MHz	CH 23095 707.5MHz	QPSK	27	49	2	23.98
				0		22.61
				12		22.59
				23		22.63
			1	0	0	24.29
				24		24.17
				49		24.17
			25	0	1	22.86
				12		22.86
				24		22.91
			50	0	1	22.81
		16-QAM	1	0	1	23.54
				24		23.51
				49		23.46
			27	0	2	22.13
				12		22.14
				23		22.23
Band 12 / 10MHz	CH 23130 711MHz	QPSK	1	0	0	24.03
				24		23.94
				49		23.96
			25	0	1	23.12
				12		23.08
				24		23.00
			50	0	1	23.01
		16-QAM	1	0	1	23.31
				24		23.28
				49		23.23
			27	0	2	22.08
				12		22.14
				23		22.17

LTE B14:

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Band	Channel Freq. (MHz)	Modulation	RB No.	RB offset	MPR	Conducted Output Power (dBm)
Band 14 / 5MHz	CH 23305 790.5MHz	QPSK	1	0	0	24.51
				12		24.37
				24		24.39
			12	0	1	23.74
				6		23.65
				11		23.61
			25	0	1	23.59
		16-QAM	1	0	1	23.24
				12		23.15
				24		23.16
			12	0	2	22.86
				6		22.8
				11		22.8
			25	0	2	22.72
Band 14 / 5MHz	CH 23330 793MHz	QPSK	1	0	0	24.52
				12		24.49
				24		24.45
			12	0	1	23.66
				6		23.66
				11		23.73
			25	0	1	23.57
		16-QAM	1	0	1	23.43
				12		23.36
				24		23.35
			12	0	2	22.61
				6		22.56
				11		22.53
			25	0	2	22.43
Band 14 / 5MHz	CH 23355 795.5MHz	QPSK	1	0	0	24.33
				12		24.31

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Band 14 / 10MHz	CH 23330 793MHz			24		24.31
			12	0	1	23.79
				6		23.73
				11		23.62
			25	0	1	23.61
		16-QAM	1	0	1	22.95
				12		22.91
				24		22.88
			12	0	2	22.61
				6		22.56
				11		22.56
			25	0	2	22.54
		QPSK	1	0	0	24.42
				24		24.3
				49		24.31
			25	0	1	23.63
				12		23.63
				24		23.68
			50	0	1	23.52
		16-QAM	1	0	1	23.2
				24		23.18
				49		23.13
			27	0	2	22.72
				12		22.74
				23		22.81

LTE B66:

Band	Channel Freq. (MHz)	Modulation	RB No.	RB offset	MPR	Conducted Output Power (dBm)
Band 66 / 1.4MHz	CH 131979 1710.7MHz	QPSK	1	0	0	23.09
				2		23.04
				5		23.02
			3	0	0	22.13

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				1	1	22.09
				3		22.08
				6		22.05
		16-QAM	1	0	1	22.00
				2		21.91
				5		21.89
			3	0	1	21.28
				1		21.19
				3		21.21
			6	0	2	21.22
Band 66 / 1.4MHz	CH 132322 1745MHz	QPSK	1	0	0	23.87
				2		23.74
				5		23.75
			3	0	0	22.03
				1		22.03
				3		22.11
			6	0	1	22.00
		16-QAM	1	0	1	22.86
				2		22.77
				5		22.76
			3	0	1	21.87
				1		21.86
				3		21.89
			6	0	2	21.83
Band 66 / 1.4MHz	CH 132665 1779.3MHz	QPSK	1	0	0	23.93
				2		23.90
				5		23.91
			3	0	0	23.13
				1		23.03
				3		23.03
			6	0	1	22.96
		16-QAM	1	0	1	23.23
				2		23.10

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				5		23.12
				0		22.03
			3	1	1	21.97
				3		21.96
			6	0	2	21.93
				0		23.07
			1	7	0	23.05
				14		22.97
		QPSK		0		22.29
			8	4	1	22.26
				7		22.24
			15	0	1	22.21
				0		22.42
			1	7	1	22.36
				14		22.36
		16-QAM		0		21.22
			8	4	2	21.23
				7		21.28
			15	0	2	21.20
				0		23.78
			1	7	0	23.74
				14		23.72
		QPSK		0		22.90
			8	4	1	22.86
				7		22.80
			15	0	1	22.81
				0		22.95
			1	7	1	22.90
				14		22.89
		16-QAM		0		22.08
			8	4	2	22.06
				7		22.05
			15	0	2	21.90

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Band 66 / 3MHz	CH 132657 1778.5MHz	QPSK	1	0	0	23.78
				7		23.76
				14		23.75
			8	0	1	23.08
				4		23.04
				7		23.05
			15	0	1	22.92
		16-QAM	1	0	1	23.20
				7		23.18
				14		23.18
			8	0	2	22.16
				4		22.10
				7		22.07
			15	0	2	22.06
Band 66 / 5MHz	CH 131997 1712.5MHz	QPSK	1	0	0	23.06
				12		23.03
				24		23.03
			12	0	1	22.24
				6		22.18
				11		22.17
			25	0	1	22.08
		16-QAM	1	0	1	21.79
				12		21.74
				24		21.76
			12	0	2	21.39
				6		21.38
				11		21.41
			25	0	2	21.29
Band 66 / 5MHz	CH 132322 1745MHz	QPSK	1	0	0	23.70
				12		23.65
				24		23.66
			12	0	1	22.87
				6		22.90

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				11		22.93
			25	0	1	22.80
		16-QAM	1	0	1	23.15
				12		23.12
				24		23.11
			12	0	2	21.89
				6		21.86
				11		21.88
			25	0	2	21.87
			Band 66 / 5MHz	CH 132647 1777.5MHz	QPSK	1
12	23.80					
24	23.77					
12	0	1				23.08
	6					23.03
	11					23.00
25	0	1				22.98
16-QAM	1	0			1	22.74
		12				22.68
		24				22.67
	12	0			2	22.00
		6				22.04
		11				22.06
	25	0			2	21.94
Band 66 / 10MHz	CH 132022 1715MHz	QPSK	1	0	0	23.11
				24		23.03
				49		23.00
			25	0	1	22.12
				12		22.11
				24		22.13
			50	0	1	22.03
		16-QAM	1	0	1	22.58
				24		22.55
				49		22.52

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			27	0	2	21.15
				12		21.26
				23		21.30
Band 66 / 10MHz	CH 132322 1745MHz	QPSK	1	0	0	23.55
				24		23.50
				49		23.50
			25	0	1	22.52
				12		22.58
				24		22.61
			50	0	1	22.45
		16-QAM	1	0	1	22.61
				24		22.58
				49		22.58
			27	0	2	21.56
				12		21.53
				23		21.55
Band 66 / 10MHz	CH 132622 1775MHz	QPSK	1	0	0	23.78
				24		23.72
				49		23.66
			25	0	1	22.92
				12		22.87
				24		22.75
			50	0	1	22.76
		16-QAM	1	0	1	23.08
				24		23.05
				49		23.00
			27	0	2	22.02
				12		22.01
				23		22.05
Band 66 / 15MHz	CH 132047 1717.5MHz	QPSK	1	0	0	23.03
				37		22.89
				74		22.91
			36	0	1	22.08

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				19	1	22.06
				38		22.08
				75		21.93
		16-QAM	1	0	1	22.32
				37		22.28
				74		22.29
			27	0	2	21.09
				24		21.10
				48		21.22
Band 66 / 15MHz	CH 132322 1745MHz	QPSK	1	0	0	23.47
				37		23.45
				74		23.43
			36	0	1	22.46
				19		22.42
				38		22.37
			75	0	1	22.33
		16-QAM	1	0	1	22.38
				37		22.33
				74		22.32
			27	0	2	21.55
				24		21.63
				48		21.67
Band 66 / 15MHz	CH 132597 1772.5MHz	QPSK	1	0	0	23.56
				37		23.53
				74		23.52
			36	0	1	22.47
				19		22.41
				38		22.35
			75	0	1	22.36
		16-QAM	1	0	1	23.02
				37		22.98
				74		22.97
			27	0	2	21.71

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				24		21.78
				48		21.83
Band 66 / 20MHz	CH 132072 1720MHz	QPSK	1	0	0	23.17
				49		23.07
				99		23.09
			50	0	1	22.08
				25		22.20
				49		22.26
			100	0	1	22.09
		16-QAM	1	0	1	22.79
				49		22.76
				99		22.72
			27	0	2	21.02
				36		21.11
				73		21.20
Band 66 / 20MHz	CH 132322 1745MHz	QPSK	1	0	0	23.49
				49		23.40
				99		23.41
			50	0	1	22.52
				25		22.48
				49		22.38
			100	0	1	22.37
		16-QAM	1	0	1	22.71
				49		22.62
				99		22.62
			27	0	2	21.59
				36		21.65
				73		21.86
Band 66 / 20MHz	CH 132572 1770MHz	QPSK	1	0	0	23.75
				49		23.70
				99		23.72
			50	0	1	22.69
				25		22.71

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		16-QAM	100	49	1	22.74
				0		22.61
			1	0	1	22.87
				49		22.84
				99		22.82
			27	0	2	21.54
				36		21.56
				73		21.58

Verify power data:
LTE B2 Conducted RF Power Output Results

Band	Channel Freq. (MHz)	Modulation	RB No.	RB offset	MPR	Conducted Output	Test result (dBm)	deviation(dB) =Original result-Test
1.4MHz	CH 18607 1850.7MHz	QPSK	1	0	0	24.52	24.06	0.46
				2		24.39	23.99	0.40
			6	0	1	23.49	22.88	0.61
		16-QAM	1	2	1	23.48	23.25	0.23
				5		23.48	22.99	0.49
			6	0	2	22.10	21.92	0.18
3MHz	CH 18900 1880MHz	QPSK	1	0	0	24.52	23.89	0.63
				7		24.50	24.03	0.47
				14		24.42	23.92	0.50
		16-QAM	1	0	1	23.41	22.76	0.65
				14	1	23.44	23.03	0.41
				0	2	22.56	21.96	0.60
5MHz	CH 18900 1880MHz	QPSK	1	0	0	24.68	24.11	0.57
			12	11	1	23.57	23.01	0.56
		16-QAM	1	0	1	23.16	22.81	0.35
				24		23.10	22.70	0.40
			25	0	2	22.60	22.07	0.53
		QPSK	1	0	0	24.57	24.03	0.54
				49		24.50	23.89	0.61

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		16-QAM	50	0	1	23.37	22.97	0.40
			1	0	1	23.58	23.03	0.55
				49		23.53	22.94	0.59
			27	0	2	22.81	22.26	0.55
15MHz	CH 18900 1880MHz	QPSK	1	0	0	24.69	24.09	0.60
			75	0	1	23.55	22.97	0.58
		16-QAM	1	0	1	23.68	23.50	0.18
				74		23.62	23.85	-0.23
20MHz	CH 18900 1880MHz	QPSK	50	0	1	23.55	23.24	0.31
				49		23.52	22.96	0.56
			100	0	1	23.49	22.92	0.57
		16-QAM	27	0	2	22.52	22.16	0.36
				73		22.68	22.16	0.52

LTE B4 Conducted RF Power Output Results

Band	Channel Freq. (MHz)	Modulation	RB No.	RB offset	MPR	Conducted Output	Test result (dBm)	deviation(dB) =Original result-Test
1.4MHz	CH 20175 1732.5MHz	QPSK	1	0	0	23.40	23.93	-0.53
			6	0	1	22.30	22.71	-0.41
		16-QAM	1	0	1	22.57	23.17	-0.60
				5		22.45	22.64	-0.19
			6	0	2	21.61	21.79	-0.18
3MHz	CH 20175 1732.5MHz	QPSK	1	0	0	23.31	23.72	-0.41
				7		23.28	23.62	-0.34
		16-QAM	1	7	1	22.74	22.91	-0.17
				14		22.75	22.82	-0.07
			15	0	2	21.49	21.90	-0.41
5MHz	CH 20175 1732.5MHz	QPSK	1	0	0	23.41	23.68	-0.27
				12		23.37	23.70	-0.33
			25	0	1	22.30	22.66	-0.36
		16-QAM	1	0	1	22.12	22.65	-0.53
			25	0	2	21.47	21.80	-0.33

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10MHz	CH 20175 1732.5MHz	QPSK	1	0	0	23.36	23.62	-0.26
			50	0	1	22.19	22.64	-0.45
		16-QAM	27	0	2	21.57	21.96	-0.39
				23		21.51	21.75	-0.24
15MHz	CH 20325 1747.5MHz	QPSK	1	37	0	23.58	23.98	-0.40
				74		23.56	23.82	-0.26
			75	0	1	22.58	22.99	-0.41
		16-QAM	1	0	1	23.33	23.26	0.07
				37		23.22	23.23	-0.01
			27	0	2	21.85	22.05	-0.20
20MHz	CH 20300 1745MHz	QPSK	1	0	0	23.66	24.00	-0.34
				99		23.64	23.87	-0.23
			100	0	1	22.48	22.88	-0.40
		16-QAM	1	0	1	23.18	23.16	0.02
			27	73	2	21.66	21.92	-0.26

LTE B12 Conducted RF Power Output Results

Band	ChannelFreq. (MHz)	Modulation	RB No.	RB offset	MPR	Conducted Output Power (dBm)	Test result(dBm)	deviation(dB)=O riginal esult-Test result
1.4MHz	CH 23097 707.5MHz	QPSK	1	0	0	24.16	23.89	0.27
				5		24.06	24.02	0.04
			6	0	1	23.13	22.91	0.22
		16-QAM	1	0	1	22.92	23.00	-0.08
				5		22.87	23.03	-0.16
			6	0	2	21.80	21.90	-0.10
3MHz	CH 23095 707.5MHz	QPSK	1	0	0	24.10	23.89	0.21
				14		24.03	23.90	0.13
			15	0	1	22.92	23.04	-0.12
		16-QAM	1	0	1	22.84	23.21	-0.37
				14		22.76	22.98	-0.22
			15	0	2	21.77	22.13	-0.36

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5MHz	CH 23095 707.5MHz	QPSK	1	0	0	24.07	23.63	0.44
				24		24.03	23.65	0.38
			25	0	1	22.93	22.87	0.06
		16-QAM	1	0	1	22.77	22.85	-0.08
				24		22.72	22.55	0.17
			25	0	2	21.61	21.98	-0.37
10MHz	CH 23095 707.5MHz	QPSK	1	49	0	24.17	23.79	0.38
			25	24	1	22.91	23.01	-0.10
			50	0	1	22.81	22.99	-0.18
		16-QAM	1	0	1	23.54	23.48	0.06
				49		23.46	23.16	0.30
			27	23	2	22.23	21.89	0.34

LTE B14 Conducted RF Power Output Results

Band	ChannelFreq. (MHz)	Modulation	RB No.	RB offset	MPR	Conducted Output Power (dBm)	Test result(dBm)	deviation(dB)=O riginal esult-Test result
5MHz	CH 23330 793MHz	QPSK	1	24	0	24.45	23.95	0.50
			12	0	1	23.66	23.18	0.48
			25	0	1	23.57	23.08	0.49
		16-QAM	1	0	1	23.43	23.06	0.37
			12	0	2	22.61	22.08	0.53
			25	0	2	22.43	22.00	0.43
10MHz	CH 23330 793MHz	QPSK	1	0	0	24.42	24.13	0.29
				49		24.31	23.97	0.34
			50	0	1	23.52	23.14	0.38
		16-QAM	1	0	1	23.20	23.42	-0.22
				49		23.13	23.24	-0.11
			27	0	2	22.72	22.21	0.51

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LTE B66 Conducted RF Power Output Results

Band	ChannelFreq. (MHz)	Modulation	RB No.	RB offset	MPR	Conducted Output Power (dBm)	Test result(dBm)	deviation(dB) =Original result-Test
1.4MHz	CH 132665 1779.3MHz	QPSK	1	0	0	23.93	23.91	0.02
				2		23.90	23.86	0.04
			6	0	1	22.96	22.68	0.28
		16-QAM	1	0	1	23.23	23.07	0.16
			6	0	2	21.93	21.90	0.03
3MHz	CH 132322 1745MHz	QPSK	1	0	0	23.78	23.93	-0.15
			15	0	1	22.81	23.05	-0.24
		16-QAM	1	0	1	22.95	22.90	0.05
				7		22.90	22.80	0.10
			15	0	2	21.90	21.92	-0.02
5MHz	CH 132322 1745MHz	QPSK	1	0	0	23.70	23.94	-0.24
			25	0	1	22.80	22.88	-0.08
		16-QAM	12	0	2	21.89	21.88	0.01
				11		21.88	21.96	-0.08
			25	0	2	21.87	21.92	-0.05
10MHz	CH 132322 1745MHz	QPSK	1	0	0	23.55	23.89	-0.34
			50	0	1	22.45	22.88	-0.43
		16-QAM	1	0	1	22.61	22.92	-0.31
			27	0	2	21.56	21.97	-0.41
15MHz	CH 132322 1745MHz	QPSK	1	0	0	23.47	23.85	-0.38
				74		23.43	23.74	-0.31
			75	0	1	22.33	22.78	-0.45
		16-QAM	1	0	1	22.38	22.44	-0.06
			27	0	2	21.55	21.92	-0.37
20MHz	CH 132322 1745MHz	QPSK	1	0	0	23.49	24.01	-0.52
			50	0	1	22.52	22.97	-0.45

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				49		22.38	22.77	-0.39
		16-QA M	1	0	1	22.71	23.12	-0.41
			27	0	2	21.59	21.98	-0.39
				73		21.86	21.92	-0.06

6.3. ERP and EIRP

According to Part 24.232(c), mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

According to Part 27.50(c), portable stations (hand-held devices) in the 600 MHz uplink Band and the 698-746 MHz Band, and fixed and mobile stations in the 600 MHz uplink Band are limited to 3 watts ERP.

According to Part 27.50(d), fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz Band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz Bands are limited to 1 watt EIRP.

According to Part 90.542(a)(7), Portable stations (hand-held devices) transmitting in the 758-768 MHz band and the 788-798 MHz band are limited to 3 watts ERP.

Conducted RF Power+Antenna Gain(dBi)=EIRP

Conducted RF Power+Antenna Gain(dBd)=ERP

Antenna Gain(dBd)= Antenna Gain(dBi)-2.15

Frequency Band	AntennaGain (dBi)	AntennaGain (dBd)
LTE Band2	1.48	-0.67
LTE Band4	1.48	-0.67
LTE Band12	0.81	-1.34
LTE Band14	0.81	-1.34
LTE Band66	1.48	-0.67

Antenna type: Internal Antenna.

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6.3.1 Original data:
LTE B2:

Band	Channel Freq. (MHz)	Modulation	RB No.	RB offset	MPR	Conducted Output Power (dBm)	RF Output Power (dBm) EIRP
Band 2 / 1.4MHz	CH 18607 1850.7MHz	QPSK	1	0	0	24.52	26.00
				2		24.39	25.87
				5		24.41	25.89
			3	0	0	23.51	24.99
				1		23.52	25.00
				3		23.65	25.13
			6	0	1	23.49	24.97
		16-QAM	1	0	1	23.51	24.99
				2		23.48	24.96
				5		23.48	24.96
			3	0	1	22.24	23.72
				1		22.15	23.63
				3		22.14	23.62
			6	0	2	22.10	23.58
		Band 2/1.4MHz	CH 18900 1880MHz	QPSK	1	0	0
2	24.82					26.30	
5	24.83					26.31	
3	0				0	23.80	25.28
	1					23.78	25.26
	3					23.79	25.27
6	0				1	23.78	25.26
16-QAM	1			0	1	24.19	25.67
				2		24.10	25.58
				5		24.10	25.58
	3			0	1	22.64	24.12
				1		22.61	24.09
				3		22.56	24.04
6	0	2	22.48	23.96			
Band 2/1.4MHz	CH 19193 1909.3MHz	QPSK	1	0	0	24.51	25.99
				2		24.43	25.91
				5		24.40	25.88
			3	0	0	23.58	25.06
				1		23.58	25.06

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				3		23.60	25.08
				6		23.42	24.90
		16-QAM	1	0	1	23.18	24.66
				2		23.14	24.62
				5		23.06	24.54
			3	0	1	22.65	24.13
				1		22.64	24.12
				3		22.66	24.14
			6	0	2	22.54	24.02
Band 2/3MHz	CH 18607 1850.7MHz	QPSK	1	0	0	24.40	25.88
				7		24.36	25.84
				14		24.36	25.84
			8	0	1	23.45	24.93
				4		23.42	24.90
				7		23.36	24.84
			15	0	1	23.37	24.85
		16-QAM	1	0	1	23.98	25.46
				7		23.95	25.43
				14		23.88	25.36
			8	0	2	22.70	24.18
				4		22.68	24.16
				7		22.68	24.16
			15	0	2	22.60	24.08
Band 2/3MHz	CH 18900 1880MHz	QPSK	1	0	0	24.52	26.00
				7		24.50	25.98
				14		24.42	25.90
			8	0	1	23.58	25.06
				4		23.55	25.03
				7		23.51	24.99
			15	0	1	23.41	24.89
		16-QAM	1	0	1	23.56	25.04
				7		23.42	24.90
				14		23.44	24.92

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			8	0	2	22.72	24.20
				4		22.56	24.04
				7		22.58	24.06
			15	0	2	22.56	24.04
Band 2/3MHz	CH 19193 1909.3MHz	QPSK	1	0	0	24.38	25.86
				7		24.34	25.82
				14		24.32	25.80
			8	0	1	23.36	24.84
				4		23.37	24.85
				7		23.46	24.94
			15	0	1	23.34	24.82
		16-QAM	1	0	1	23.51	24.99
				7		23.48	24.96
				14		23.40	24.88
			8	0	2	22.47	23.95
				4		22.43	23.91
				7		22.44	23.92
			15	0	2	22.42	23.90
Band 2/5MHz	CH 18625 1852.5MHz	QPSK	1	0	0	24.35	25.83
				12		24.31	25.79
				24		24.27	25.75
			12	0	1	23.36	24.84
				6		23.40	24.88
				11		23.49	24.97
			25	0	1	23.32	24.80
		16-QAM	1	0	1	23.05	24.53
				12		22.99	24.47
				24		23.01	24.49
			12	0	2	22.33	23.81
				6		22.33	23.81
				11		22.36	23.84
			25	0	2	22.22	23.70

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Band 2/5MHz	CH 18900 1880MHz	QPSK	1	0	0	24.68	26.16
				12		24.65	26.13
				24		24.64	26.12
			12	0	1	23.62	25.10
				6		23.57	25.05
				11		23.57	25.05
			25	0	1	23.57	25.05
		16-QAM	1	0	1	23.16	24.64
				12		23.12	24.60
				24		23.10	24.58
			12	0	2	22.73	24.21
				6		22.66	24.14
				11		22.63	24.11
			25	0	2	22.60	24.08
Band 2/5MHz	CH 19175 1907.5MHz	QPSK	1	0	0	24.36	25.84
				12		24.34	25.82
				24		24.30	25.78
			12	0	1	23.15	24.63
				6		23.17	24.65
				11		23.20	24.68
			25	0	1	23.17	24.65
		16-QAM	1	0	1	23.21	24.69
				12		23.16	24.64
				24		23.13	24.61
			12	0	2	22.60	24.08
				6		22.55	24.03
				11		22.56	24.04
			25	0	2	22.43	23.91
Band 2/10MHz	CH 18650 1855MHz	QPSK	1	0	0	24.30	25.78
				24		24.20	25.68
				49		24.21	25.69
			25	0	1	23.28	24.76
				12		23.24	24.72

				24		23.20	24.68
			50	0	1	23.20	24.68
		16-QAM	1	0	1	23.60	25.08
				24		23.52	25.00
				49		23.54	25.02
			27	0	2	22.43	23.91
				12		22.43	23.91
				23		22.61	24.09

Band 2/10MHz	CH 18900 1880MHz	QPSK	1	0	0	24.57	26.05	
				24		24.51	25.99	
				49		24.50	25.98	
			25	0	1	23.47	24.95	
				12		23.38	24.86	
				24		23.37	24.85	
			50	0	1	23.37	24.85	
			16-QAM	1	0	1	23.58	25.06
					24		23.54	25.02
		49			23.53		25.01	
		27		0	2	22.81	24.29	
				12		22.87	24.35	
				23		22.95	24.43	

Band 2/10MHz	CH 19150 1905MHz	QPSK	1	0	0	24.53	26.01	
				24		24.49	25.97	
				49		24.42	25.90	
			25	0	1	23.40	24.88	
				12		23.38	24.86	
				24		23.49	24.97	
			50	0	1	23.36	24.84	
			16-QAM	1	0	1	23.37	24.85
					24		23.34	24.82
		49			23.34		24.82	
		27		0	2	22.54	24.02	
				12		22.55	24.03	
				23		22.65	24.13	

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Band 2/15MHz	CH 18675 1857.5MHz	QPSK	1	0	0	24.42	25.90
				37		24.40	25.88
				74		24.39	25.87
			36	0	1	23.50	24.98
				19		23.46	24.94
				38		23.39	24.87
			75	0	1	23.39	24.87
		16-QAM	1	0	1	23.73	25.21
				37		23.64	25.12
				74		23.62	25.10
			27	0	2	22.36	23.84
				24		22.34	23.82
				48		22.35	23.83
Band 2/15MHz	CH 18900 1880MHz	QPSK	1	0	0	24.69	26.17
				37		24.67	26.15
				74		24.67	26.15
			36	0	1	23.67	25.15
				19		23.63	25.11
				38		23.61	25.09
			75	0	1	23.55	25.03
		16-QAM	1	0	1	23.68	25.16
				37		23.63	25.11
				74		23.62	25.10
			27	0	2	22.77	24.25
				24		22.81	24.29
				48		22.86	24.34
Band 2/15MHz	CH 19125 1902.5MHz	QPSK	1	0	0	24.74	26.22
				37		24.69	26.17
				74		24.67	26.15
			36	0	1	23.81	25.29
				19		23.81	25.29
				38		23.83	25.31
			75	0	1	23.70	25.18

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		16-QAM	1	0	1	23.18	24.66
				37		23.12	24.60
				74		23.10	24.58
			27	0	2	22.53	24.01
				24		22.51	23.99
				48		22.52	24.00
Band 2/20MHz	CH 18700 1860MHz	QPSK	1	0	0	24.21	25.69
				49		24.17	25.65
				99		24.11	25.59
			50	0	1	23.08	24.56
				25		23.09	24.57
				49		23.26	24.74
			100	0	1	23.09	24.57
		16-QAM	1	0	1	23.93	25.41
				49		23.88	25.36
				99		23.87	25.35
			27	0	2	22.27	23.75
				36		22.26	23.74
				73		22.28	23.76
Band 2/20MHz	CH 18900 1880MHz	QPSK	1	0	0	24.60	26.08
				49		24.53	26.01
				99		24.49	25.97
			50	0	1	23.55	25.03
				25		23.52	25.00
				49		23.52	25.00
			100	0	1	23.49	24.97
		16-QAM	1	0	1	24.24	25.72
				49		24.21	25.69
				99		24.20	25.68
			27	0	2	22.52	24.00
				36		22.61	24.09
				73		22.68	24.16

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Band 2/20MHz	CH 19100 1900MHz	QPSK	1	0	0	24.69	26.17
				49		24.58	26.06
				99		24.57	26.05
			50	0	1	23.59	25.07
				25		23.63	25.11
				49		23.66	25.14
			100	0	1	23.56	25.04
		16-QAM	1	0	1	24.19	25.67
				49		24.11	25.59
				99		24.07	25.55
			27	0	2	22.55	24.03
				36		22.54	24.02
				73		22.59	24.07

LTE B4:

Band	Channel Freq. (MHz)	Modulation	RB No.	RB offset	MPR	Conducted Output Power (dBm)	RF Output Power (dBm) EIRP
Band 4 / 1.4MHz	CH 19957 1710.7MHz	QPSK	1	0	0	23.35	24.83
				2		23.28	24.76
				5		23.26	24.74
			3	0	0	22.28	23.76
				1		22.27	23.75
				3		22.30	23.78
			6	0	1	22.16	23.64
		16-QAM	1	0	1	22.53	24.01
				2		22.50	23.98
				5		22.46	23.94
			3	0	1	21.70	23.18
				1		21.63	23.11
				3		21.63	23.11
			6	0	2	21.60	23.08
Band 4/1.4MHz	CH 20175 1732.5MHz	QPSK	1	0	0	23.40	24.88
				2		23.33	24.81

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				5		23.29	24.77		
			3	0	0	22.36	23.84		
				1		22.36	23.84		
				3		22.39	23.87		
			6	0	1	22.30	23.78		
		16-QAM	1	0	1	22.57	24.05		
				2		22.50	23.98		
				5		22.45	23.93		
			3	0	1	21.70	23.18		
				1		21.68	23.16		
				3		21.67	23.15		
			6	0	2	21.61	23.09		
		Band 4/1.4MHz	CH 20393 1754.3MHz	QPSK	1	0	0	23.67	25.15
						2		23.64	25.12
						5		23.64	25.12
3	0				0	22.66	24.14		
	1					22.66	24.14		
	3					22.82	24.30		
6	0				1	22.65	24.13		
16-QAM	1			0	1	23.03	24.51		
				2		23.00	24.48		
				5		22.99	24.47		
	3			0	1	21.65	23.13		
				1		21.63	23.11		
				3		21.66	23.14		
	6			0	2	21.51	22.99		
Band 4/3MHz	CH 19965 1711.5MHz			QPSK	1	0	0	23.39	24.87
		7	23.33			24.81			
		14	23.28			24.76			
		8	0		1	22.34	23.82		
			4			22.34	23.82		
			7			22.37	23.85		
		15	0		1	22.22	23.70		

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		16-QAM	1	0	1	22.56	24.04
				7		22.53	24.01
				14		22.47	23.95
			8	0	2	21.43	22.91
				4		21.41	22.89
				7		21.41	22.89
			15	0	2	21.43	22.91

Band 4/3MHz	CH 20175 1732.5MHz	QPSK	1	0	0	23.31	24.79
				7		23.28	24.76
				14		23.27	24.75
			8	0	1	22.28	23.76
				4		22.26	23.74
				7		22.25	23.73
			15	0	1	22.18	23.66
		16-QAM	1	0	1	22.81	24.29
				7		22.74	24.22
				14		22.75	24.23
			8	0	2	21.52	23.00
				4		21.64	23.12
				7		21.66	23.14
			15	0	2	21.49	22.97

Band 4/3MHz	CH 20385 1753.5MHz	QPSK	1	0	0	23.68	25.16
				7		23.61	25.09
				14		23.61	25.09
			8	0	1	22.81	24.29
				4		22.75	24.23
				7		22.64	24.12
			15	0	1	22.65	24.13
		16-QAM	1	0	1	23.10	24.58
				7		23.06	24.54
				14		23.02	24.50
			8	0	2	21.72	23.20
				4		21.73	23.21

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				7		21.75	23.23
			15	0	2	21.73	23.21
Band 4/5MHz	CH 19975 1712.5MHz	QPSK	1	0	0	23.27	24.75
				12		23.23	24.71
				24		23.24	24.72
			12	0	1	22.44	23.92
				6		22.41	23.89
				11		22.43	23.91
			25	0	1	22.26	23.74
		16-QAM	1	0	1	22.83	24.31
				12		22.78	24.26
				24		22.78	24.26
			12	0	2	21.65	23.13
				6		21.62	23.10
				11		21.64	23.12
			25	0	2	21.51	22.99
Band 4/5MHz	CH 20175 1732.5MHz	QPSK	1	0	0	23.41	24.89
				12		23.37	24.85
				24		23.34	24.82
			12	0	1	22.46	23.94
				6		22.33	23.81
				11		22.30	23.78
			25	0	1	22.30	23.78
		16-QAM	1	0	1	22.12	23.60
				12		22.06	23.54
				24		22.07	23.55
			12	0	2	21.52	23.00
				6		21.49	22.97
				11		21.51	22.99
			25	0	2	21.47	22.95
Band 4/5MHz	CH 20375 1752.5MHz	QPSK	1	0	0	23.71	25.19
				12		23.68	25.16
				24		23.68	25.16

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			12	0	1	22.73	24.21	
				6		22.66	24.14	
				11		22.63	24.11	
			25	0	1	22.62	24.10	
		16-QAM	1	0	1	22.56	24.04	
				12		22.50	23.98	
				24		22.50	23.98	
			12	0	2	22.02	23.50	
				6		22.00	23.48	
				11		22.02	23.50	
			25	0	2	21.89	23.37	
					QPSK	1	0	0
24	23.38	24.86						
49	23.33	24.81						
25	0	1				22.40	23.88	
	12					22.40	23.88	
	24					22.44	23.92	
50	0	1				22.36	23.84	
16-QAM	1	0				1	22.37	23.85
		24					22.35	23.83
		49			22.33		23.81	
	27	0			2	21.48	22.96	
		12				21.33	22.81	
		23	21.34	22.82				
		QPSK	1	0	0	23.36	24.84	
				24		23.30	24.78	
				49		23.32	24.80	
			25	0	1	22.17	23.65	
				12		22.25	23.73	
				24		22.35	23.83	
			50	0	1	22.19	23.67	
			16-QAM	1	0	1	22.35	23.83
					24		22.33	23.81

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			27	49	2	22.27	23.75
				0		21.57	23.05
				12		21.50	22.98
				23		21.51	22.99
Band 4/10MHz	CH 20350 1750MHz	QPSK	1	0	0	23.64	25.12
				24		23.59	25.07
				49		23.59	25.07
			25	0	1	22.66	24.14
				12		22.64	24.12
				24		22.66	24.14
			50	0	1	22.59	24.07
		16-QAM	1	0	1	23.08	24.56
				24		23.04	24.52
				49		23.05	24.53
			27	0	2	21.74	23.22
				12		21.75	23.23
				23		21.80	23.28
Band 4/15MHz	CH 20025 1717.5MHz	QPSK	1	0	0	23.31	24.79
				37		23.24	24.72
				74		23.22	24.70
			36	0	1	22.15	23.63
				19		22.20	23.68
				38		22.22	23.70
			75	0	1	22.13	23.61
		16-QAM	1	0	1	22.22	23.70
				37		22.12	23.60
				74		22.12	23.60
			27	0	2	21.40	22.88
				24		21.34	22.82
				48		21.35	22.83
Band 4/15MHz	CH 20175 1732.5MHz	QPSK	1	0	0	23.27	24.75
				37		23.22	24.70
				74		23.20	24.68

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			36	0	1	22.30	23.78
				19		22.27	23.75
				38		22.16	23.64
			75	0	1	22.15	23.63
		16-QAM	1	0	1	22.34	23.82
				37		22.31	23.79
				74		22.31	23.79
			27	0	2	21.48	22.96
				24		21.40	22.88
				48		21.40	22.88
Band 4/15MHz	CH 20325 1747.5MHz	QPSK	1	0	0	23.63	25.11
				37		23.58	25.06
				74		23.56	25.04
			36	0	1	22.75	24.23
				19		22.65	24.13
				38		22.64	24.12
			75	0	1	22.58	24.06
		16-QAM	1	0	1	23.33	24.81
				37		23.22	24.70
				74		23.22	24.70
			27	0	2	21.85	23.33
				24		21.73	23.21
				48		21.67	23.15
Band 4/20MHz	CH 20050 1720MHz	QPSK	1	0	0	23.37	24.85
				49		23.29	24.77
				99		23.27	24.75
			50	0	1	22.37	23.85
				25		22.35	23.83
				49		22.39	23.87
			100	0	1	22.34	23.82
		16-QAM	1	0	1	22.59	24.07
				49		22.55	24.03
				99		22.52	24.00

			27	0	2	21.45	22.93
				36		21.42	22.90
				73		21.42	22.90
Band 4/20MHz	CH 20175 1732.5MHz	QPSK	1	0	0	23.13	24.61
				49		23.04	24.52
				99		23.03	24.51
			50	0	1	22.19	23.67
				25		22.21	23.69
				49		22.25	23.73
			100	0	1	22.12	23.60
		16-QAM	1	0	1	22.71	24.19
				49		22.64	24.12
				99		22.66	24.14
			27	0	2	21.59	23.07
				36		21.55	23.03
				73		21.56	23.04
Band 4/20MHz	CH 20300 1745MHz	QPSK	1	0	0	23.66	25.14
				49		23.63	25.11
				99		23.64	25.12
			50	0	1	22.49	23.97
				25		22.52	24.00
				49		22.54	24.02
			100	0	1	22.48	23.96
		16-QAM	1	0	1	23.18	24.66
				49		23.15	24.63
				99		23.15	24.63
			27	0	2	21.66	23.14
				36		21.64	23.12
				73		21.66	23.14

LTE B12:

Band	Channel Freq. (MHz)	Modulation	RB No.	RB offset	MPR	Conducted Output Power (dBm)	RF Output Power (dBm) EIRP
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Band 12 / 1.4MHz	CH 23017 699.7MHz	QPSK	1	0	0	24.98	23.64
				2		24.95	23.61
				5		24.93	23.59
			3	0	0	24.01	22.67
				1		23.97	22.63
				3		23.98	22.64
			6	0	1	23.88	22.54
		16-QAM	1	0	1	23.80	22.46
				2		23.70	22.36
				5		23.72	22.38
			3	0	1	22.79	21.45
				1		22.78	21.44
				3		22.83	21.49
			6	0	2	22.65	21.31
Band 12 /1.4MHz	CH 23097 707.5MHz	QPSK	1	0	0	24.16	22.82
				2		24.10	22.76
				5		24.06	22.72
			3	0	0	23.15	21.81
				1		23.14	21.80
				3		23.17	21.83
			6	0	1	23.13	21.79
		16-QAM	1	0	1	22.92	21.58
				2		22.87	21.53
				5		22.87	21.53
			3	0	1	21.89	20.55
				1		21.87	20.53
				3		21.87	20.53
			6	0	2	21.80	20.46
Band 12 /1.4MHz	CH 23173 715.3MHz	QPSK	1	0	0	24.67	23.33
				2		24.63	23.29
				5		24.62	23.28
			3	0	0	23.52	22.18
				1		23.52	22.18

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				3		23.56	22.22
			6	0	1	23.49	22.15
		16-QAM	1	0	1	23.56	22.22
				2		23.47	22.13
				5		23.48	22.14
			3	0	1	22.33	20.99
				1		22.40	21.06
				3		22.50	21.16
			6	0	2	22.35	21.01
Band 12 /3MHz	CH 23025 700.5MHz	QPSK	1	0	0	24.82	23.48
				7		24.79	23.45
				14		24.78	23.44
			8	0	1	23.84	22.50
				4		23.80	22.46
				7		23.82	22.48
			15	0	1	23.66	22.32
		16-QAM	1	0	1	23.70	22.36
				7		23.58	22.24
				14		23.59	22.25
			8	0	2	22.78	21.44
				4		22.78	21.44
				7		22.83	21.49
			15	0	2	22.68	21.34
Band 12 /3MHz	CH 23095 707.5MHz	QPSK	1	0	0	24.10	22.76
				7		24.03	22.69
				14		24.03	22.69
			8	0	1	23.02	21.68
				4		23.00	21.66
				7		23.01	21.67
			15	0	1	22.92	21.58
		16-QAM	1	0	1	22.84	21.50
				7		22.77	21.43
				14		22.76	21.42

			8	0	2	21.89	20.55
				4		21.87	20.53
				7		21.90	20.56
			15	0	2	21.77	20.43
Band 12 /3MHz	CH 23165 714.5MHz	QPSK	1	0	0	24.02	22.68
				7		23.96	22.62
				14		23.94	22.60
			8	0	1	23.00	21.66
				4		23.09	21.75
				7		23.12	21.78
			15	0	1	22.99	21.65
		16-QAM	1	0	1	22.74	21.40
				7		22.70	21.36
				14		22.70	21.36
			8	0	2	21.59	20.25
				4		21.70	20.36
				7		21.72	20.38
			15	0	2	21.58	20.24
Band 12 /5MHz	CH 23035 701.5MHz	QPSK	1	0	0	24.95	23.61
				12		24.91	23.57
				24		24.83	23.49
			12	0	1	23.91	22.57
				6		23.89	22.55
				11		23.94	22.60
			25	0	1	23.78	22.44
		16-QAM	1	0	1	23.72	22.38
				12		23.69	22.35
				24		23.68	22.34
			12	0	2	22.74	21.40
				6		22.72	21.38
				11		22.76	21.42
			25	0	2	22.68	21.34

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Band 12 /5MHz	CH 23095 707.5MHz	QPSK	1	0	0	24.07	22.73
				12		24.02	22.68
				24		24.03	22.69
			12	0	1	22.98	21.64
				6		23.01	21.67
				11		23.07	21.73
			25	0	1	22.93	21.59
		16-QAM	1	0	1	22.77	21.43
				12		22.70	21.36
				24		22.72	21.38
			12	0	2	21.65	20.31
				6		21.63	20.29
				11		21.65	20.31
			25	0	2	21.61	20.27
Band 12 /5MHz	CH 23155 713.5MHz	QPSK	1	0	0	23.99	22.65
				12		23.90	22.56
				24		23.87	22.53
			12	0	1	22.81	21.47
				6		22.80	21.46
				11		22.83	21.49
			25	0	1	22.79	21.45
		16-QAM	1	0	1	22.70	21.36
				12		22.67	21.33
				24		22.60	21.26
			12	0	2	21.64	20.30
				6		21.65	20.31
				11		21.67	20.33
			25	0	2	21.58	20.24
Band 12 /10MHz	CH 23060 704MHz	QPSK	1	0	0	24.59	23.25
				24		24.52	23.18
				49		24.48	23.14
			25	0	1	23.49	22.15
				12		23.45	22.11

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				24		23.40	22.06		
			50	0	1	23.34	22.00		
		16-QAM	1	0	1	24.05	22.71		
				24		23.99	22.65		
				49		23.98	22.64		
			27	0	2	22.61	21.27		
				12		22.59	21.25		
				23		22.63	21.29		
		Band 12 /10MHz	CH 23095 707.5MHz	QPSK	1	0	0	24.29	22.95
24	24.17					22.83			
49	24.17					22.83			
25	0				1	22.86	21.52		
	12					22.86	21.52		
	24					22.91	21.57		
50	0				1	22.81	21.47		
16-QAM	1				0	1	23.54	22.20	
					24		23.51	22.17	
				49	23.46		22.12		
	27			0	2	22.13	20.79		
				12		22.14	20.80		
				23		22.23	20.89		
Band 12 /10MHz	CH 23130 711MHz			QPSK	1	0	0	24.03	22.69
						24		23.94	22.60
		49	23.96			22.62			
		25	0		1	23.12	21.78		
			12			23.08	21.74		
			24			23.00	21.66		
		50	0		1	23.01	21.67		
		16-QAM	1		0	1	23.31	21.97	
					24		23.28	21.94	
				49	23.23		21.89		
			27	0	2	22.08	20.74		
				12		22.14	20.80		

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				23		22.17	20.83
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LTE B14:

Band	Channel Freq. (MHz)	Modulation	RB No.	RB offset	MPR	Conducted Output Power (dBm)	RF Output Power (dBm) EIRP
Band 14 / 5MHz	CH 23305 790.5MHz	QPSK	1	0	0	24.51	23.17
				12		24.37	23.03
				24		24.39	23.05
			12	0	1	23.74	22.40
				6		23.65	22.31
				11		23.61	22.27
			25	0	1	23.59	22.25
		16-QAM	1	0	1	23.24	21.90
				12		23.15	21.81
				24		23.16	21.82
			12	0	2	22.86	21.52
				6		22.8	21.46
				11		22.8	21.46
			25	0	2	22.72	21.38
Band 14 /5MHz	CH 23330 793MHz	QPSK	1	0	0	24.52	23.18
				12		24.49	23.15
				24		24.45	23.11
			12	0	1	23.66	22.32
				6		23.66	22.32
				11		23.73	22.39
			25	0	1	23.57	22.23
		16-QAM	1	0	1	23.43	22.09
				12		23.36	22.02
				24		23.35	22.01
			12	0	2	22.61	21.27
				6		22.56	21.22
				11		22.53	21.19
			25	0	2	22.43	21.09

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Band 14 /5MHz	CH 23355 795.5MHz	QPSK	1	0	0	24.33	22.99
				12		24.31	22.97
				24		24.31	22.97
			12	0	1	23.79	22.45
				6		23.73	22.39
				11		23.62	22.28
			25	0	1	23.61	22.27
		16-QAM	1	0	1	22.95	21.61
				12		22.91	21.57
				24		22.88	21.54
			12	0	2	22.61	21.27
				6		22.56	21.22
				11		22.56	21.22
			25	0	2	22.54	21.20
Band 14 /10MHz	CH 23330 793MHz	QPSK	1	0	0	24.42	23.08
				24		24.3	22.96
				49		24.31	22.97
			25	0	1	23.63	22.29
				12		23.63	22.29
				24		23.68	22.34
			50	0	1	23.52	22.18
		16-QAM	1	0	1	23.2	21.86
				24		23.18	21.84
				49		23.13	21.79
			27	0	2	22.72	21.38
				12		22.74	21.40
				23		22.81	21.47

LTE B66:

Band	Channel Freq. (MHz)	Modulation	RB No.	RB offset	MPR	Conducted Output Power (dBm)	RF Output Power (dBm) EIRP
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Band 66 / 1.4MHz	CH 131979 1710.7MHz	QPSK	1	0	0	23.09	24.57
				2		23.04	24.52
				5		23.02	24.50
			3	0	0	22.13	23.61
				1		22.09	23.57
				3		22.08	23.56
			6	0	1	22.05	23.53
		16-QAM	1	0	1	22.00	23.48
				2		21.91	23.39
				5		21.89	23.37
			3	0	1	21.28	22.76
				1		21.19	22.67
				3		21.21	22.69
			6	0	2	21.22	22.70
Band 66 /1.4MHz	CH 132322 1745MHz	QPSK	1	0	0	23.87	25.35
				2		23.74	25.22
				5		23.75	25.23
			3	0	0	22.03	23.51
				1		22.03	23.51
				3		22.11	23.59
			6	0	1	22.00	23.48
		16-QAM	1	0	1	22.86	24.34
				2		22.77	24.25
				5		22.76	24.24
			3	0	1	21.87	23.35
				1		21.86	23.34
				3		21.89	23.37
			6	0	2	21.83	23.31
Band 66 /1.4MHz	CH 132665 1779.3MHz	QPSK	1	0	0	23.93	25.41
				2		23.90	25.38
				5		23.91	25.39
			3	0	0	23.13	24.61
				1		23.03	24.51

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				3		23.03	24.51
			6	0	1	22.96	24.44
		16-QAM	1	0	1	23.23	24.71
				2		23.10	24.58
				5		23.12	24.60
			3	0	1	22.03	23.51
				1		21.97	23.45
				3		21.96	23.44
			6	0	2	21.93	23.41
Band 66 /3MHz	CH 131987 1711.5MHz	QPSK	1	0	0	23.07	24.55
				7		23.05	24.53
				14		22.97	24.45
			8	0	1	22.29	23.77
				4		22.26	23.74
				7		22.24	23.72
			15	0	1	22.21	23.69
		16-QAM	1	0	1	22.42	23.90
				7		22.36	23.84
				14		22.36	23.84
			8	0	2	21.22	22.70
				4		21.23	22.71
				7		21.28	22.76
			15	0	2	21.20	22.68
Band 66 /3MHz	CH 132322 1745MHz	QPSK	1	0	0	23.78	25.26
				7		23.74	25.22
				14		23.72	25.20
			8	0	1	22.90	24.38
				4		22.86	24.34
				7		22.80	24.28
			15	0	1	22.81	24.29
		16-QAM	1	0	1	22.95	24.43
				7		22.90	24.38
				14		22.89	24.37

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			8	0	2	22.08	23.56
				4		22.06	23.54
				7		22.05	23.53
			15	0	2	21.90	23.38
Band 66 /3MHz	CH 132657 1778.5MHz	QPSK	1	0	0	23.78	25.26
				7		23.76	25.24
				14		23.75	25.23
			8	0	1	23.08	24.56
				4		23.04	24.52
				7		23.05	24.53
			15	0	1	22.92	24.40
		16-QAM	1	0	1	23.20	24.68
				7		23.18	24.66
				14		23.18	24.66
			8	0	2	22.16	23.64
				4		22.10	23.58
				7		22.07	23.55
			15	0	2	22.06	23.54
Band 66 /5MHz	CH 131997 1712.5MHz	QPSK	1	0	0	23.06	24.54
				12		23.03	24.51
				24		23.03	24.51
			12	0	1	22.24	23.72
				6		22.18	23.66
				11		22.17	23.65
			25	0	1	22.08	23.56
		16-QAM	1	0	1	21.79	23.27
				12		21.74	23.22
				24		21.76	23.24
			12	0	2	21.39	22.87
				6		21.38	22.86
				11		21.41	22.89
			25	0	2	21.29	22.77

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Band 66 /5MHz	CH 132322 1745MHz	QPSK	1	0	0	23.70	25.18
				12		23.65	25.13
				24		23.66	25.14
			12	0	1	22.87	24.35
				6		22.90	24.38
				11		22.93	24.41
			25	0	1	22.80	24.28
		16-QAM	1	0	1	23.15	24.63
				12		23.12	24.60
				24		23.11	24.59
			12	0	2	21.89	23.37
				6		21.86	23.34
				11		21.88	23.36
			25	0	2	21.87	23.35
Band 66 /5MHz	CH 132647 1777.5MHz	QPSK	1	0	0	23.88	25.36
				12		23.80	25.28
				24		23.77	25.25
			12	0	1	23.08	24.56
				6		23.03	24.51
				11		23.00	24.48
			25	0	1	22.98	24.46
		16-QAM	1	0	1	22.74	24.22
				12		22.68	24.16
				24		22.67	24.15
			12	0	2	22.00	23.48
				6		22.04	23.52
				11		22.06	23.54
			25	0	2	21.94	23.42
Band 66 /10MHz	CH 132022 1715MHz	QPSK	1	0	0	23.11	24.59
				24		23.03	24.51
				49		23.00	24.48
			25	0	1	22.12	23.60
				12		22.11	23.59

		16-QAM	50	24	1	22.13	23.61
				0		22.03	23.51
				0		22.58	24.06
			1	24	1	22.55	24.03
				49		22.52	24.00
				0		21.15	22.63
			27	12	2	21.26	22.74
				23		21.30	22.78
				0		23.55	25.03
				24		23.50	24.98
Band 66 /10MHz	CH 132322 1745MHz	QPSK	1	49	0	23.50	24.98
				0		22.52	24.00
				12		22.58	24.06
			25	24	1	22.61	24.09
				0		22.45	23.93
				0		22.61	24.09
			1	24	1	22.58	24.06
				49		22.58	24.06
				0		21.56	23.04
		16-QAM	27	12	2	21.53	23.01
				23		21.55	23.03
				0		23.78	25.26
			1	24	0	23.72	25.20
				49		23.66	25.14
				0		22.92	24.40
Band 66 /10MHz	CH 132622 1775MHz	QPSK	25	12	1	22.87	24.35
				24		22.75	24.23
				0		22.76	24.24
			50	0	1	22.76	24.24
		16-QAM	1	0	1	23.08	24.56
				24		23.05	24.53
				49		23.00	24.48
			27	0	2	22.02	23.50
				12		22.01	23.49
				0		23.78	25.26

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				23		22.05	23.53
Band 66 /15MHz	CH 132047 1717.5MHz	QPSK	1	0	0	23.03	24.51
				37		22.89	24.37
				74		22.91	24.39
			36	0	1	22.08	23.56
				19		22.06	23.54
				38		22.08	23.56
			75	0	1	21.93	23.41
		16-QAM	1	0	1	22.32	23.80
				37		22.28	23.76
				74		22.29	23.77
			27	0	2	21.09	22.57
				24		21.10	22.58
				48		21.22	22.70
Band 66 /15MHz	CH 132322 1745MHz	QPSK	1	0	0	23.47	24.95
				37		23.45	24.93
				74		23.43	24.91
			36	0	1	22.46	23.94
				19		22.42	23.90
				38		22.37	23.85
			75	0	1	22.33	23.81
		16-QAM	1	0	1	22.38	23.86
				37		22.33	23.81
				74		22.32	23.80
			27	0	2	21.55	23.03
				24		21.63	23.11
				48		21.67	23.15
Band 66 /15MHz	CH 132597 1772.5MHz	QPSK	1	0	0	23.56	25.04
				37		23.53	25.01
				74		23.52	25.00
			36	0	1	22.47	23.95
				19		22.41	23.89
				38		22.35	23.83

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			75	0	1	22.36	23.84		
		16-QAM	1	0	1	23.02	24.50		
				37		22.98	24.46		
				74		22.97	24.45		
			27	0	2	21.71	23.19		
				24		21.78	23.26		
				48		21.83	23.31		
Band 66 /20MHz	CH 132072 1720MHz	QPSK	1	0	0	23.17	24.65		
				49		23.07	24.55		
				99		23.09	24.57		
			50	0	1	22.08	23.56		
				25		22.20	23.68		
				49		22.26	23.74		
			100	0	1	22.09	23.57		
		16-QAM	1	0	1	22.79	24.27		
				49		22.76	24.24		
				99		22.72	24.20		
			27	0	2	21.02	22.50		
				36		21.11	22.59		
				73		21.20	22.68		
		Band 66 /20MHz	CH 132322 1745MHz	QPSK	1	0	0	23.49	24.97
						49		23.40	24.88
99	23.41					24.89			
50	0				1	22.52	24.00		
	25					22.48	23.96		
	49					22.38	23.86		
100	0				1	22.37	23.85		
16-QAM	1			0	1	22.71	24.19		
				49		22.62	24.10		
				99		22.62	24.10		
	27			0	2	21.59	23.07		
				36		21.65	23.13		
				73		21.86	23.34		

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Band 66 /20MHz	CH 132572 1770MHz	QPSK	1	0	0	23.75	25.23
				49		23.70	25.18
				99		23.72	25.20
			50	0	1	22.69	24.17
				25		22.71	24.19
				49		22.74	24.22
			100	0	1	22.61	24.09
		16-QAM	1	0	1	22.87	24.35
				49		22.84	24.32
				99		22.82	24.30
			27	0	2	21.54	23.02
				36		21.56	23.04
				73		21.58	23.06

6.4. Radiated Spurious Emission

Specifications:	FCC Part 2.1051,24.238,2.1053, 27.53,90.543(e)
DUT Serial Number:	IEMI:353258101297653
Test conditions:	Ambient Temperature:23.6-26.8°C Relative Humidity:54-58% Air pressure: 97.9-98.0kPa
Test Results:	Pass

Limit Level Construction:

According to Part 24.238 (a), i.e., Out of Band emissions. 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, so the limit level is: $P(\text{dBm}) - (43 + 10 \log(P)) \text{ dB} = -13 \text{ dBm}$.

According to Part 27.53(c):

On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB;

According to Part 27.53(h):

Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 Bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ dB.

According to Part 27.53(g):

For operations in the 600 MHz Band and the 698-746 MHz Band, the power of any emission outside a licensee's frequency Band(s) of operation shall be attenuated below the transmitter power (P) within the licensed Band(s) of operation, measured in watts, by at least $43 + 10 \log(P)$ dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution Bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz Bands immediately outside and adjacent to a licensee's frequency block, a resolution Bandwidth of at least 30 kHz may be employed.

According to Part 90.543(e):

2) On all frequencies between 769–775 MHz and 799–805 MHz, by a factor not less than $65 + 10 \log(P)$ dB in a 6.25 kHz band segment, for mobile and portable stations.

(3) On any frequency between 775–788 MHz, above 805 MHz, and below 758 MHz, by at least $43 + 10 \log(P)$ dB.

For operations in the 758–775 MHz and 788–805 MHz bands, all emissions including harmonics in the band 1559–1610 MHz shall be limited to ≤ 70 dBW/ MHz equivalent isotropically radiated power (EIRP) for wideband signals, and ≤ 80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

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Limits for Radiated spurious emissions(UE)	
Frequency range	Limit Level /Resolution Bandwidth
30 MHz to 20000 MHz	-13dBm/1MHz

Measurement Uncertainty:

Item	Uncertainty
Expanded Uncertainty (30MHz-150MHz)	3.82 dB (k=2)
Expanded Uncertainty (150MHz-1000MHz)	3.97dB (k=2)
Expanded Uncertainty (1GHz-3GHz)	3.09dB (k=2)
Expanded Uncertainty (3GHz-6GHz)	3.29dB (k=2)
Expanded Uncertainty (6GHz-18GHz)	3.91dB (k=2)
Expanded Uncertainty (18GHz-26GHz)	4.60dB (k=2)
Expanded Uncertainty (26GHz-40GHz)	4.77dB (k=2)

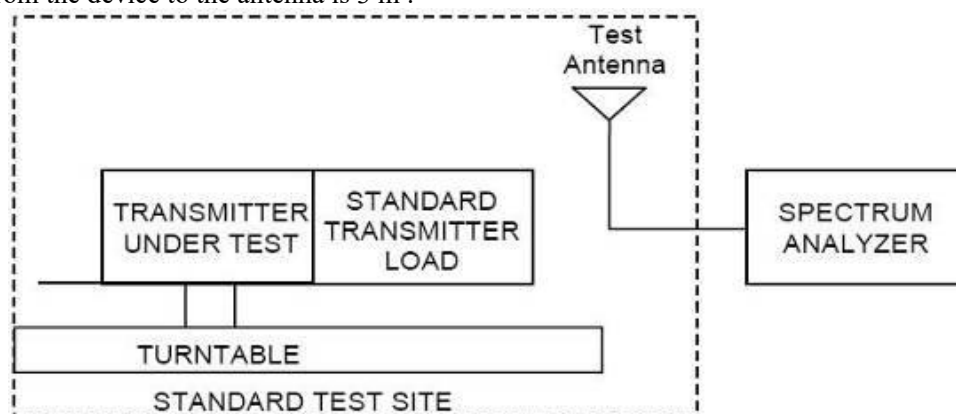
Test Setup:

The EUT was placed in an anechoic chamber. The Wireless Communications Test Set was used to set the TX channel and power level and modulate the TX signal with different bit patterns.

Test Method:

The measurement method is substitution method accordance with section 2.2.12 of ANSI/TIA-603-E: Land Mobile FM or PM Communications Equipment Measurement and Performance Standards.

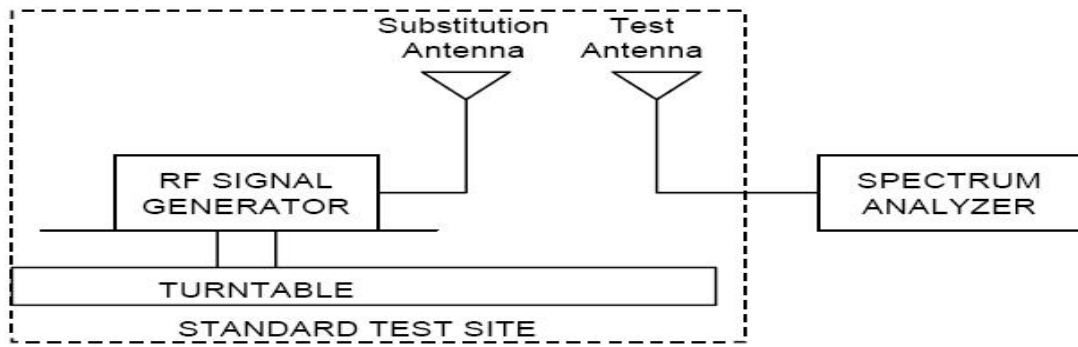
(a) Connect the equipment as illustrated and measure the spurious emissions as the method as above. The distance from the device to the antenna is 3 m .



(b) Reconnect the equipment as illustrated.

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(c) Remove the transmitter and replace it with a substitution antenna. The center of the substitution antenna should be approximately at the same location as the center of the transmitter.

(d) Feed the substitution antenna at the transmitter end with a signal generator connected to the antenna by means of a non-radiating cable. With the antennas at both ends horizontally polarized, and with the signal generator tuned to a particular spurious frequency, raise and lower the test antenna to obtain a maximum reading at the spectrum analyzer. Adjust the level of the signal generator output until the previously recorded maximum reading for this set of conditions is obtained. This should be done carefully repeating the adjustment of the test antenna and generator output.

(e) Repeat step d) with both antennas vertically polarized for each spurious frequency.

(f) Calculate power in dBm into a reference ideal half-wave dipole antenna by reducing the readings obtained in steps d) and e) by the power loss in the cable between the generator and the antenna, and further corrected for the gain of the substitution antenna used relative to an ideal half-wave dipole antenna by the following formula:

$$P_d(\text{dBm}) = P_g(\text{dBm}) - \text{cable loss (dB)} + \text{antenna gain (dB)}$$

where:

P_d is the dipole equivalent power and P_g is the generator output power into the substitution antenna.

Test frequency: 30MHz-20GHz

All modes were tested,only the worst case was reported.

LTE B2 Radiated Spurious Emission Results

Test Data (5M bandwidth QPSK Mode CH18625)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
190.188000	-76.06	0.3	5.1	-71.26	V
1360.400000	-72.96	0.9	6.2	-67.66	V
2609.500000	-66.55	1.3	10.9	-56.95	V
5075.322581	-79.79	2.0	12.6	-69.19	H
8056.451613	-74.78	2.7	11.4	-66.08	V
10445.500000	-67.24	3.3	10.9	-59.64	V

LTE B2 Radiated Spurious Emission Results

Test Data (5M bandwidth QPSK Mode CH18900)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
169.356000	-78.71	0.3	5.9	-73.11	V
306.444000	-78.15	0.4	6.3	-72.25	V
1513.300000	-73.28	1.0	8.2	-66.08	V
2665.500000	-66.12	1.3	10.8	-56.62	V
5070.967742	-79.78	2.0	12.6	-69.18	H
9198.500000	-69.10	3.3	11.3	-61.10	V

LTE B2 Radiated Spurious Emission Results

Test Data (5M bandwidth QPSK Mode CH19174)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]

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189.978000	-75.47	0.3	5.1	-70.67	V
316.566000	-78.63	0.4	6.3	-72.73	V
1494.400000	-73.29	1.0	8.2	-66.09	V
2810.500000	-65.01	1.4	11.0	-55.41	H
5069.032258	-79.46	2.0	12.6	-68.86	H
9237.000000	-69.41	3.1	11.0	-61.51	V

LTE B4 Radiated Spurious Emission Results

Test Data (20M bandwidth QPSK Mode CH20050)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
191.406000	-75.56	0.3	5.1	-70.76	V
316.524000	-78.12	0.4	6.3	-72.22	V
1290.800000	-73.03	0.9	5.9	-68.03	H
2674.000000	-65.89	1.3	10.8	-56.39	V
5070.967742	-79.53	2.0	12.6	-68.93	H
10448.500000	-66.86	3.5	10.9	-59.46	V

LTE B4 Radiated Spurious Emission Results

Test Data (20M bandwidth QPSK Mode CH20175)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
189.810000	-75.51	0.3	5.1	-70.71	V
315.096000	-78.37	0.4	6.3	-72.47	V
1488.800000	-73.32	1.0	8.2	-66.12	V
2683.000000	-66.01	1.3	10.9	-56.41	V
5190.967742	-79.64	2.0	13.0	-68.64	V
10445.500000	-67.03	3.3	10.9	-59.43	V

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LTE B4 Radiated Spurious Emission Results

Test Data (20M bandwidth QPSK Mode CH20299)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
166.290000	-78.61	0.3	5.9	-73.01	V
189.894000	-75.86	0.3	5.1	-71.06	V
316.356000	-78.62	0.4	6.3	-72.72	V
1400.800000	-73.73	0.9	7.1	-67.53	V
2651.500000	-66.18	1.3	10.8	-56.68	H
9199.000000	-69.31	3.3	11.3	-61.31	V

LTE B12 Radiated Spurious Emission Results

Test Data (1.4M bandwidth QPSK Mode CH23017)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
190.062000	-78.66	0.3	5.1	-73.86	V
309.468000	-78.62	0.4	6.3	-72.72	V
1849.300000	-71.23	1.1	9.8	-62.53	H
2789.500000	-65.13	1.4	11.0	-55.53	H
5066.129032	-79.50	2.0	12.6	-68.90	H
10449.000000	-66.78	3.5	10.9	-59.38	V

LTE B12 Radiated Spurious Emission Results

Test Data (1.4M bandwidth QPSK Mode CH23095)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
191.700000	-78.36	0.3	5.1	-73.56	V

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312.660000	-77.53	0.4	6.3	-71.63	V
1655.400000	-74.63	1.0	9.5	-66.13	V
2672.500000	-65.84	1.3	10.8	-56.34	V
5045.322581	-79.43	2.0	12.6	-68.83	H
9200.500000	-69.14	3.3	11.3	-61.14	V

LTE B12 Radiated Spurious Emission Results

Test Data (1.4M bandwidth QPSK Mode CH23172)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
191.616000	-77.06	0.3	5.1	-72.26	V
310.896000	-78.76	0.4	6.3	-72.86	V
1489.600000	-73.28	1.0	8.2	-66.08	V
2686.000000	-65.90	1.3	10.9	-56.30	V
5068.548387	-79.46	2.0	12.6	-68.86	H
9196.500000	-69.21	3.3	11.3	-61.21	V

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1588.200000	-74.30	1.0	9.4	-65.90	H

The max radiated power of 1559-1610 MHz is -65.9 dBm<-40dBm (-70dBW)

There is no signal that bandwidth is less than 700 Hz bandwidth

LTE B14 Radiated Spurious Emission Results

Test Data (10M bandwidth QPSK Mode CH23330)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
191.574000	-75.49	0.3	5.1	-70.69	V

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315.180000	-78.01	0.4	6.3	-72.11	V
1749.200000	-73.78	1.1	9.9	-64.98	V
2594.400000	-66.46	1.3	10.9	-56.86	V
5068.548387	-79.49	2.0	12.6	-68.89	H
9198.500000	-69.58	3.3	11.8	-61.08	V

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1579.100000	-71.20	1.0	9.4	-62.80	H

The max radiated power of 1559-1610 MHz is -62.8 dBm<-40dBm (-70dBW)
There is no signal that bandwidth is less than 700 Hz bandwidth

LTE B66 Radiated Spurious Emission Results

Test Data (20M bandwidth QPSK Mode CH132072)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
188.424000	-75.69	0.3	5.1	-70.89	V
314.886000	-78.62	0.4	6.3	-72.72	V
1489.600000	-73.26	1.0	8.2	-66.06	V
2763.000000	-65.56	1.3	10.8	-56.06	V
5161.451613	-79.16	2.1	12.6	-68.66	H
9201.500000	-69.14	3.3	11.3	-61.14	V

LTE B66 Radiated Spurious Emission Results

Test Data (20M bandwidth QPSK Mode CH132322)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
189.810000	-76.47	0.3	5.1	-71.67	V

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313.374000	-78.60	0.4	6.3	-72.70	V
1488.400000	-73.34	1.0	8.2	-66.14	V
2791.000000	-65.13	1.4	11.0	-55.53	H
4495.645161	-81.63	1.8	12.6	-70.83	H
9354.000000	-69.18	3.2	11.0	-61.38	V

LTE B66 Radiated Spurious Emission Results
Test Data (20M bandwidth QPSK Mode CH132562)

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
191.322000	-76.36	0.3	5.1	-71.56	V
314.844000	-78.15	0.4	6.3	-72.25	V
1492.000000	-73.26	1.0	8.2	-66.06	V
2789.500000	-65.12	1.4	11.0	-55.52	V
5075.806452	-79.19	2.0	12.6	-68.59	H
9199.500000	-68.95	3.3	11.3	-60.95	V

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ANNEX A EUT Photos

See the document” I23W00033-External Photos”.

See the document” I23W00033-Internal Photos ”.

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ANNEX B Deviations from Prescribed Test Methods

No deviation from Prescribed Test Methods.

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ANNEX C Difference Statement

Modular declaration letter

Date: **2023-06-25**

Applicant's complete, legal business name: Micron Electronics LLC

Applicant's mailing address: 1001 Yamato Road, Suite 400, Boca Raton, FL 33431, USA

The original module (model: The configuration of the terminal module is the same as that of the original module, FCC ID: RI7LE910C1SA ,date of Grant : March 25, 2019.Report number: 18C0042R-HPUSP35V00) is embedded into the terminal(model:ActiveHalo+ , FCC ID: ZKQ-AHalo) , they all support the LTE FDD : B2/B4/B12/B14 , TD-TDD: B66 frequency bands, The configuration of the terminal module is the same as that of the original module, except for the antenna. We have verified that the conducted power of the terminal is the consistent with original module.

Please contact me if you have any questions or need future information regarding this application.

Sincerely,

Printed Name:Ping Cheng

Company: Micron Electronics LLC.

Job Title:Director

Email:pcheng@micron-electronics.com

Telephone: +18885383489

END OF REPORT

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