



TEST REPORT

REPORT NUMBER: 24B02W000037-002
ON

Type of Equipment: 5G CPE
Type of Designation: PW550+,PW550, PW550 Plus, PW550 Pro,JW515,
PW550-NA
Brand Name: ATEL
Manufacturer: Asiatelco Technologies Co.
FCC ID: XYO-PW550NA

ACCORDING TO
FCC 47 CFR Part 2
FCC 47 CFR Part 96
ANSI C63.26-2015

Chongqing Academy of Information and Communications Technology

Month date, year
Sep.29, 2024

Signature



Jin Zhou

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.



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Revision Version

Report Number	Revision	Date
24B02W000037-002	00	2024-09-29

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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
Postal Code:	401336
Telephone:	0086-23-88069965
Fax:	0086-23-88608777

1.2. Testing Environment

Normal Temperature:	15-35°C
Relative Humidity:	30-70%

1.3. Project data

Testing Start Date:	2024-08-26
Testing End Date:	2024-09-09

1.4. Signature

	2024-09-29
Junxin Dong (Prepared this test report)	Date
	2024-09-29
Lili Wang (Reviewed this test report)	Date
	2024-09-29
Jin Zhou Director of the laboratory (Approved this test report)	Date

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2. Client Information

2.1. Applicant Information

Company Name:	Asiatelco Technologies Co.
Address /Post:	#68 HuaTuo Road, Building-8, Zhangjiang Hi-Tech Park, Pudong, Shanghai 201204, China
City:	Shanghai
Country:	China
Telephone:	N/A
Fax:	N/A
Email:	xsfeng@asiatelco.com
Contact Person:	xiaosheng.feng

2.2. Manufacturer Information

Company Name:	Asiatelco Technologies Co.
Address /Post:	#68 HuaTuo Road, Building-8, Zhangjiang Hi-Tech Park, Pudong, Shanghai 201204, China
City:	Shanghai
Country:	China
Telephone:	N/A
Fax:	N/A
Email:	xsfeng@asiatelco.com
Contact Person:	xiaosheng.feng

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

3.1. About EUT

EUT Description	5G CPE
Model name	PW550+,PW550, PW550 Plus, PW550 Pro,JW515, PW550-NA
Brand name	ATEL
WCDMA Frequency Band	WCDMA Band II/IV/V
LTE Frequency Band	LTE:B2/4/5/7/12/13/14/17/25/26/30/41/48/66/71
Type of LTE modulation	QPSK/16QAM/64QAM/256QAM
Power Class 2	LTE:B41
Power Class 3	LTE: B2/4/5/7/12/13/14/17/25/26/30/48/66/71
Extreme Temperature	-20/+60°C
Nominal Test Voltage	24V
Extreme Test High Voltage	25.2V
Extreme Test Low Voltage	22.8V

Note1: Photographs of EUT are shown in ANNEX A of this test report.

Note2: 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
24B02W000037#S1	N/A	PW55-P1	CPE5_PW550_N0_00_v1.0.2	2024-08-26
24B02W000037#S2	862424050281897	PW55-P1	CPE5_PW550_N0_00_v1.0.2	2024-08-26

*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
4G	48	3550-3700	3550-3700	--

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Band	BW (MHz)	Low Channel	Low Freq. (MHz)	Mid Channel	Mid Freq. (MHz)	High Channel	High Freq. (MHz)
Band 48 (3550-3700MHz)	5	55265	3552.5	55990	3625	56715	3697.5
	10	55290	3555	55990	3625	56690	3695
	15	55315	3557.5	55990	3625	56665	3692.5
	20	55340	3560	55990	3625	56640	3690

No.	Maximum of Antenna Gain	Data
1	LTE band 48	1.84 dBi
Note: The data of antenna gain is provided by the customer may affect the validity of the test results in this report, and the impact and consequences of this shall be undertaken by the customer.		

3.4. Internal Identification of AE used during the test

AE ID*	Description	Model	SN/Remark
24B02W000037#AE1	RF Cable	N/A	N/A
NOTE1: AE ID is the internal identification code of the laboratory.			

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

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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 47 CFR Part 2	Frequency Allocations And Radio Treaty Matters; General Rules And Regulations	--
FCC 47 CFR Part 96	Citizens broadband radio service	--
ANSI C63.26	American National Standard Of Procedures For Compliance Testing Of Licensed Transmitters Used In Licensed Radio	2015
KDB 971168 D01	Measurement Guidance For Certification Of Licensed Digital Transmitters	v03r01
Note: KDB 971168 D01 have not been accredited by A2LA.		

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5. Test Equipments Utilized

5.1. RF Test System

No.	Equipment	Model	SN	HW Version	SW Version	Manufacturer	Cal. Interval	Cal.Due Date
1	Universal Radio Communication Tester	CMW500	152395	--	--	R&S	1 Year	2025-06-28
2	Splitter	--	--	--	--	--	--	--

5.2. RSE Test System

No.	Equipment	Model	SN	HW Version	SW Version	Manufacturer	Cal.Due Date
1	EMI Test Receiver	ESU40	100350	01	4.43 SP3	R&S	2025-06-28
2	TRILOG Broadband Antenna	VULB9163	9163-586	--	--	Schwarzbeck	2024-10-28
3	Horn antenna	9120D	1083	--	--	Schwarzbeck	2024-12-14
4	Horn antenna	DATE 1152	LM7127	--	--	ETS	2026-09-30
5	Horn antenna	DATE 1012	LM5945	--	--	ETS	2026-09-30
6	Amplifier1	SCU-08F1	8320027	--	--	R&S	2025-06-28
7	Amplifier2	SCU-18F	180093	--	--	R&S	2025-06-28
8	Universal Radio Communication Tester	CMW500	128181	--	--	R&S	2025-06-28

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5.3. Climate Chamber

No.	Name	Type	SN	HW Version	SW Version	Manufacture	Cal. Interval	Cal.Due Date
--	--	--	--	--	--	--	--	--

5.4. Anechoic chamber Vibration table

No.	Name	Type	SN	HW Version	SW Version	Manufacturer	Cal. Interval	Cal.Due Date
1	Fully-Anechoic Chamber	FAC 5	--	--	--	TDK	5 Year	2026-07-29
2	Anechoic Chamber	SAC 10	--	--	--	TDK	5 Year	2026-07-26

5.5. Test software

No.	Name	version	SN	Manufacture
1	EMC32	V9.26.01	--	R&S
2	EMC 32	V10.20.01	--	R&S
3	T-RFS500	V2.0	--	Manufacturer:Beijing Zhiwang Xince Technology Co., Ltd.

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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.

LTE Band 48

FCC Rules	Name of Test	Result
FCC Part 2.1046/96.41(b)	Output Power and EIRP/ERP	PASS
FCC Part 2.1051/96.41(e)	Emission Limit	PASS
FCC Part 96.41(g)	Peak-to-Average Ratio	Refer to report (Report No: SAR/2021/4000901, SUZR/2021/7002001)
FCC Part 2.1049	99%Occupied Bandwidth	Refer to report (Report No: SAR/2021/4000901, SUZR/2021/7002001)
FCC Part 96.41(e)	-26dB Emission Bandwidth	Refer to report (Report No: SAR/2021/4000901, SUZR/2021/7002001)
FCC Part 96.41(e)	Band Edge at antenna terminals	Refer to report (Report No: SAR/2021/4000901, SUZR/2021/7002001)
FCC Part 2.1055	Frequency stability	Refer to report (Report No: SAR/2021/4000901, SUZR/2021/7002001)
FCC Part 2.1057/96.41(e)	Conducted Spurious mission	Refer to report (Report No: SAR/2021/4000901, SUZR/2021/7002001)

Note:

The PW550+,PW550, PW550 Plus, PW550 Pro,JW515, PW550-NA manufactured by Asiatelco Technologies Co. is a new product for testing.

The RF module inside the product have been certified, FCC ID: ZMOFG360NA. certified on 2022-12-12, Only RF output power, Radiated Spurious Emission is tested for 5G CPE model PW550+,PW550, PW550 Plus, PW550 Pro,JW515, PW550-NA in this report, and because of the change of antenna gain, Effective Isotropic Radiated Power/ERP also re-evaluated. Other test items refer to the FG360-NA Module report (Report No.: SAR/2021/4000901 and SUZR/2021/7002001, FCC ID: ZMOFG360NA).

Chongqing Academy of Information and Communication Technology only performed test cases which identified with Pass/Fail/Inc result in section 6.1.

Chongqing Academy of Information and Communication Technology has verified that the compliance of the tested device specified in section 3.1 of this test report is successfully evaluated according to the procedure and test methods as defined in type certification requirement listed in section 6 of this test report.

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6.2. Output Power and EIRP/ERP

Specifications:	FCC Part 2.1046/96.41(b)
DUT Serial Number:	24B02W000037#S1
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	Pass

6.2.1. Measurement Limit

FCC §96.41(b) specifies that the Maximum EIRP for End User Device must not exceed 23(dBm/10 megahertz)

6.2.2. Method of Measurements

Method of measurements please refer to KDB971168 D01 v03 clause 5.

The EUT was set up for the max output power with pseudo random data modulation.

The power was measured with Comprehensive test instrument.

These measurements were done at 3 frequencies.(bottom, middle and top of operational frequency range).

1. The transmitter output port was connected to base station.
2. Set the EUT at maximum power through base station.
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Measure and record maximum average power for other modulation signal.
5. During the process of testing, the EUT was controlled Comprehensive test instrument.
6. Communication tester to ensure max power transmission and proper modulation.
7. This result contains output power and EIRP measurements for the EUT. In all cases, output power is within the specified limits.

$EIRP = \text{Conducted power} + \text{Gain}$, $ERP = EIRP - 2.15\text{dBi}$.

6.2.3. Test procedures

The transmitter output power was connected to calibrated attenuator, the other end of which was connected to signal analyzer. Transmitter output power was read off the power in dBm. The power outputs at the transmitter antenna port was determined by adding the value of attenuator to the signal analyzer reading.

6.2.4. Measurement Uncertainty

Expanded Uncertainty	0.6dB (k=2)
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6.2.5. Test Setup



6.2.6. Test result

Band	Frequency (MHz)	Band Width	RB size/offset	Power (dBm/10 megahertz) -QPSK	Power (dBm/10 megahertz)-16QAM	Power (dBm/10 megahertz)-64QAM	Power (dBm/10 megahertz)-256QAM
TDD48	3552.5	5	One Rb High	20.28	19.82	18.73	15.98
TDD48	3552.5	5	One Rb Low	20.32	19.88	18.77	16.08
TDD48	3552.5	5	One Rb Middle	20.3	19.87	18.76	15.99
TDD48	3552.5	5	Half Rb Low	19.49	18.83	17.82	15.73
TDD48	3552.5	5	Half Rb Middle	19.49	18.81	17.82	15.74
TDD48	3552.5	5	Half Rb High	19.45	18.74	17.77	15.66
TDD48	3552.5	5	Fullrb	19.47	18.82	17.8	15.78
TDD48	3555	10	One Rb High	20.15	19.58	18.87	15.42
TDD48	3555	10	One Rb Low	20.38	19.79	19.09	15.63
TDD48	3555	10	One Rb Middle	20.34	19.7	19.04	15.57
TDD48	3555	10	Half Rb Low	19.44	18.81	17.73	15.74
TDD48	3555	10	Half Rb Middle	19.43	18.79	17.73	15.72
TDD48	3555	10	Half Rb High	19.34	18.72	17.65	15.64
TDD48	3555	10	Fullrb	19.4	18.72	17.71	15.62
TDD48	3557.5	15	One Rb High	20.03	19.48	18.76	15.34
TDD48	3557.5	15	One Rb Low	20.27	19.74	19.05	15.56
TDD48	3557.5	15	One Rb Middle	20.2	19.64	18.93	15.48
TDD48	3557.5	15	Half Rb Low	20.3	15.57	15.59	15.58
TDD48	3557.5	15	Half Rb Middle	20.3	15.58	15.58	15.58
TDD48	3557.5	15	Half Rb High	20.03	15.33	15.32	15.34
TDD48	3557.5	15	Fullrb	19.31	18.66	17.61	15.58
TDD48	3560	20	One Rb High	20	19.58	18.46	15.63
TDD48	3560	20	One Rb Low	20.16	19.74	18.62	15.79
TDD48	3560	20	One Rb Middle	20.06	19.61	18.48	15.65
TDD48	3560	20	Half Rb Low	19.33	18.72	17.66	15.61

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Band	Frequency (MHz)	Band Width	RB size/offset	Power (dBm/10 megahertz) -QPSK	Power (dBm/10 megahertz)-16QAM	Power (dBm/10 megahertz)-64QAM	Power (dBm/10 megahertz)-256QAM
TDD48	3560	20	Half Rb Middle	19.33	18.72	17.65	15.61
TDD48	3560	20	Half Rb High	19.24	18.6	17.54	15.5
TDD48	3560	20	Fullrb	19.28	18.61	17.58	15.56
TDD48	3625	5	One Rb High	20.83	20.18	19.31	16.54
TDD48	3625	5	One Rb Low	20.7	20.07	19.16	16.42
TDD48	3625	5	One Rb Middle	20.77	20.15	19.27	16.51
TDD48	3625	5	Half Rb Low	19.66	19.23	18.27	16.18
TDD48	3625	5	Half Rb Middle	19.66	19.24	18.27	16.18
TDD48	3625	5	Half Rb High	19.68	19.23	18.26	16.19
TDD48	3625	5	Fullrb	19.67	19.25	18.25	16.24
TDD48	3625	10	One Rb High	20.77	20.37	19.2	16.42
TDD48	3625	10	One Rb Low	20.51	20.11	18.95	16.16
TDD48	3625	10	One Rb Middle	20.81	20.35	19.18	16.43
TDD48	3625	10	Half Rb Low	19.61	19.16	18.2	16.14
TDD48	3625	10	Half Rb Middle	19.61	19.18	18.15	16.15
TDD48	3625	10	Half Rb High	19.74	19.32	18.32	16.27
TDD48	3625	10	Fullrb	19.68	19.23	18.21	16.23
TDD48	3625	15	One Rb High	20.75	20.35	19.21	16.45
TDD48	3625	15	One Rb Low	20.33	19.92	18.8	15.99
TDD48	3625	15	One Rb Middle	20.72	20.32	19.16	16.4
TDD48	3625	15	Half Rb Low	20.36	15.99	16.03	16.03
TDD48	3625	15	Half Rb Middle	20.35	16.02	15.98	16.03
TDD48	3625	15	Half Rb High	20.75	16.44	16.43	16.43
TDD48	3625	15	Fullrb	19.64	19.18	18.17	16.15
TDD48	3625	20	One Rb High	20.72	20.28	19.63	16.52
TDD48	3625	20	One Rb Low	20.17	19.74	19.12	16.01
TDD48	3625	20	One Rb Middle	20.73	20.29	19.62	16.54
TDD48	3625	20	Half Rb Low	19.5	19.09	18.07	16.02
TDD48	3625	20	Half Rb Middle	19.52	19.09	18.07	16.04
TDD48	3625	20	Half Rb High	19.75	19.31	18.3	16.25
TDD48	3625	20	Fullrb	19.63	19.18	18.16	16.14
TDD48	3697.5	5	One Rb High	21.1	20.54	19.92	16.81
TDD48	3697.5	5	One Rb Low	21.03	20.52	19.86	16.77
TDD48	3697.5	5	One Rb Middle	21.07	20.52	19.86	16.77
TDD48	3697.5	5	Half Rb Low	20.05	19.58	18.6	16.47
TDD48	3697.5	5	Half Rb Middle	20.06	19.57	18.6	16.47
TDD48	3697.5	5	Half Rb High	20.03	19.56	18.59	16.46
TDD48	3697.5	5	Fullrb	20.06	19.6	18.57	16.46

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Band	Frequency (MHz)	Band Width	RB size/offset	Power (dBm/10 megahertz)-QPSK	Power (dBm/10 megahertz)-16QAM	Power (dBm/10 megahertz)-64QAM	Power (dBm/10 megahertz)-256QAM
TDD48	3695	10	One Rb High	21.09	20.34	19.82	16.38
TDD48	3695	10	One Rb Low	21.01	20.28	19.78	16.31
TDD48	3695	10	One Rb Middle	21.05	20.31	19.84	16.37
TDD48	3695	10	Half Rb Low	19.93	19.54	18.45	16.46
TDD48	3695	10	Half Rb Middle	19.93	19.53	18.46	16.46
TDD48	3695	10	Half Rb High	19.98	19.58	18.5	16.48
TDD48	3695	10	Fullrb	20.02	19.54	18.51	16.45
TDD48	3692.5	15	One Rb High	20.99	20.23	19.81	16.31
TDD48	3692.5	15	One Rb Low	20.95	20.28	19.79	16.31
TDD48	3692.5	15	One Rb Middle	20.97	20.33	19.81	16.32
TDD48	3692.5	15	Half Rb Low	20.94	16.28	16.28	16.28
TDD48	3692.5	15	Half Rb Middle	20.94	16.28	16.28	16.31
TDD48	3692.5	15	Half Rb High	20.97	16.32	16.31	16.32
TDD48	3692.5	15	Fullrb	19.98	19.53	18.48	16.47
TDD48	3690	20	One Rb High	20.84	20.27	19.32	16.5
TDD48	3690	20	One Rb Low	20.84	20.27	19.36	16.52
TDD48	3690	20	One Rb Middle	20.92	20.38	19.4	16.57
TDD48	3690	20	Half Rb Low	19.95	19.57	18.52	16.46
TDD48	3690	20	Half Rb Middle	19.94	19.55	18.54	16.45
TDD48	3690	20	Half Rb High	19.91	19.52	18.47	16.42
TDD48	3690	20	Fullrb	19.93	19.48	18.48	16.44

6.2.7. EIRP/ERP result

QPSK

Band	Frequency (MHz)	Band Width	RB size/offset	EIRP(dBm/10 megahertz)-QPSK	ERP(dBm/10 megahertz)- QPSK
TDD48	3552.5	5	One Rb High	22.14	19.99
TDD48	3552.5	5	One Rb Low	21.33	19.18
TDD48	3552.5	5	One Rb Middle	21.33	19.18
TDD48	3552.5	5	Half Rb Low	21.29	19.14
TDD48	3552.5	5	Half Rb Middle	21.31	19.16
TDD48	3552.5	5	Half Rb High	21.99	19.84
TDD48	3552.5	5	Fullrb	22.22	20.07
TDD48	3555	10	One Rb High	22.18	20.03
TDD48	3555	10	One Rb Low	21.28	19.13
TDD48	3555	10	One Rb Middle	21.27	19.12
TDD48	3555	10	Half Rb Low	21.18	19.03
TDD48	3555	10	Half Rb Middle	21.24	19.09
TDD48	3555	10	Half Rb High	21.87	19.72

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Report No.: 24B02W000037-002

TDD48	3555	10	Fullrb	22.11	19.96
TDD48	3557.5	15	One Rb High	22.04	19.89
TDD48	3557.5	15	One Rb Low	22.14	19.99
TDD48	3557.5	15	One Rb Middle	22.14	19.99
TDD48	3557.5	15	Half Rb Low	21.87	19.72
TDD48	3557.5	15	Half Rb Middle	21.15	19.00
TDD48	3557.5	15	Half Rb High	21.84	19.69
TDD48	3557.5	15	Fullrb	22.00	19.85
TDD48	3560	20	One Rb High	21.90	19.75
TDD48	3560	20	One Rb Low	21.17	19.02
TDD48	3560	20	One Rb Middle	21.17	19.02
TDD48	3560	20	Half Rb Low	21.08	18.93
TDD48	3560	20	Half Rb Middle	21.12	18.97
TDD48	3560	20	Half Rb High	22.67	20.52
TDD48	3560	20	Fullrb	22.54	20.39
TDD48	3625	5	One Rb High	22.61	20.46
TDD48	3625	5	One Rb Low	21.50	19.35
TDD48	3625	5	One Rb Middle	21.50	19.35
TDD48	3625	5	Half Rb Low	21.52	19.37
TDD48	3625	5	Half Rb Middle	21.51	19.36
TDD48	3625	5	Half Rb High	22.61	20.46
TDD48	3625	5	Fullrb	22.35	20.20
TDD48	3625	10	One Rb High	22.65	20.50
TDD48	3625	10	One Rb Low	21.45	19.30
TDD48	3625	10	One Rb Middle	21.45	19.30
TDD48	3625	10	Half Rb Low	21.58	19.43
TDD48	3625	10	Half Rb Middle	21.52	19.37
TDD48	3625	10	Half Rb High	22.59	20.44
TDD48	3625	10	Fullrb	22.17	20.02
TDD48	3625	15	One Rb High	22.56	20.41
TDD48	3625	15	One Rb Low	22.20	20.05
TDD48	3625	15	One Rb Middle	22.19	20.04
TDD48	3625	15	Half Rb Low	22.59	20.44
TDD48	3625	15	Half Rb Middle	21.48	19.33
TDD48	3625	15	Half Rb High	22.56	20.41
TDD48	3625	15	Fullrb	22.01	19.86
TDD48	3625	20	One Rb High	22.57	20.42
TDD48	3625	20	One Rb Low	21.34	19.19
TDD48	3625	20	One Rb Middle	21.36	19.21
TDD48	3625	20	Half Rb Low	21.59	19.44
TDD48	3625	20	Half Rb Middle	21.47	19.32

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TDD48	3625	20	Half Rb High	22.94	20.79
TDD48	3625	20	Fullrb	22.87	20.72
TDD48	3697.5	5	One Rb High	22.91	20.76
TDD48	3697.5	5	One Rb Low	21.89	19.74
TDD48	3697.5	5	One Rb Middle	21.90	19.75
TDD48	3697.5	5	Half Rb Low	21.87	19.72
TDD48	3697.5	5	Half Rb Middle	21.90	19.75
TDD48	3697.5	5	Half Rb High	22.93	20.78
TDD48	3697.5	5	Fullrb	22.85	20.70
TDD48	3695	10	One Rb High	22.89	20.74
TDD48	3695	10	One Rb Low	21.77	19.62
TDD48	3695	10	One Rb Middle	21.77	19.62
TDD48	3695	10	Half Rb Low	21.82	19.67
TDD48	3695	10	Half Rb Middle	21.86	19.71
TDD48	3695	10	Half Rb High	22.83	20.68
TDD48	3695	10	Fullrb	22.79	20.64
TDD48	3692.5	15	One Rb High	22.81	20.66
TDD48	3692.5	15	One Rb Low	22.78	20.63
TDD48	3692.5	15	One Rb Middle	22.78	20.63
TDD48	3692.5	15	Half Rb Low	22.81	20.66
TDD48	3692.5	15	Half Rb Middle	21.82	19.67
TDD48	3692.5	15	Half Rb High	22.68	20.53
TDD48	3692.5	15	Fullrb	22.68	20.53
TDD48	3690	20	One Rb High	22.76	20.61
TDD48	3690	20	One Rb Low	21.79	19.64
TDD48	3690	20	One Rb Middle	21.78	19.63
TDD48	3690	20	Half Rb Low	21.75	19.60
TDD48	3690	20	Half Rb Middle	21.77	19.62
TDD48	3690	20	Half Rb High	22.14	19.99
TDD48	3690	20	Fullrb	21.33	19.18

16QAM

Band	Frequency (MHz)	Band Width	RB size/offset	EIRP(dBm/10 megahertz)-16QAM	ERP(dBm/10 megahertz)-16QAM
TDD48	3552.5	5	One Rb High	21.66	19.51
TDD48	3552.5	5	One Rb Low	21.72	19.57
TDD48	3552.5	5	One Rb Middle	20.65	18.50
TDD48	3552.5	5	Half Rb Low	20.58	18.43
TDD48	3552.5	5	Half Rb Middle	20.66	18.51
TDD48	3552.5	5	Half Rb High	21.42	19.27
TDD48	3552.5	5	Fullrb	21.63	19.48

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Band	Frequency (MHz)	Band Width	RB size/offset	EIRP(dBm/10 megahertz)-16QAM	ERP(dBm/10 megahertz)-16QAM
TDD48	3555	10	One Rb High	21.54	19.39
TDD48	3555	10	One Rb Low	20.65	18.50
TDD48	3555	10	One Rb Middle	20.63	18.48
TDD48	3555	10	Half Rb Low	20.56	18.41
TDD48	3555	10	Half Rb Middle	20.56	18.41
TDD48	3555	10	Half Rb High	21.32	19.17
TDD48	3555	10	Fullrb	21.58	19.43
TDD48	3557.5	15	One Rb High	21.48	19.33
TDD48	3557.5	15	One Rb Low	17.41	15.26
TDD48	3557.5	15	One Rb Middle	17.42	15.27
TDD48	3557.5	15	Half Rb Low	17.17	15.02
TDD48	3557.5	15	Half Rb Middle	20.50	18.35
TDD48	3557.5	15	Half Rb High	21.42	19.27
TDD48	3557.5	15	Fullrb	21.58	19.43
TDD48	3560	20	One Rb High	21.45	19.30
TDD48	3560	20	One Rb Low	20.56	18.41
TDD48	3560	20	One Rb Middle	20.56	18.41
TDD48	3560	20	Half Rb Low	20.44	18.29
TDD48	3560	20	Half Rb Middle	20.45	18.30
TDD48	3560	20	Half Rb High	22.02	19.87
TDD48	3560	20	Fullrb	21.91	19.76
TDD48	3625	5	One Rb High	21.99	19.84
TDD48	3625	5	One Rb Low	21.07	18.92
TDD48	3625	5	One Rb Middle	21.08	18.93
TDD48	3625	5	Half Rb Low	21.07	18.92
TDD48	3625	5	Half Rb Middle	21.09	18.94
TDD48	3625	5	Half Rb High	22.21	20.06
TDD48	3625	5	Fullrb	21.95	19.80
TDD48	3625	10	One Rb High	22.19	20.04
TDD48	3625	10	One Rb Low	21.00	18.85
TDD48	3625	10	One Rb Middle	21.02	18.87
TDD48	3625	10	Half Rb Low	21.16	19.01
TDD48	3625	10	Half Rb Middle	21.07	18.92
TDD48	3625	10	Half Rb High	22.19	20.04
TDD48	3625	10	Fullrb	21.76	19.61
TDD48	3625	15	One Rb High	22.16	20.01
TDD48	3625	15	One Rb Low	17.83	15.68
TDD48	3625	15	One Rb Middle	17.86	15.71
TDD48	3625	15	Half Rb Low	18.28	16.13
TDD48	3625	15	Half Rb Middle	21.02	18.87

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Band	Frequency (MHz)	Band Width	RB size/offset	EIRP(dBm/10 megahertz)-16QAM	ERP(dBm/10 megahertz)-16QAM
TDD48	3625	15	Half Rb High	22.12	19.97
TDD48	3625	15	Fullrb	21.58	19.43
TDD48	3625	20	One Rb High	22.13	19.98
TDD48	3625	20	One Rb Low	20.93	18.78
TDD48	3625	20	One Rb Middle	20.93	18.78
TDD48	3625	20	Half Rb Low	21.15	19.00
TDD48	3625	20	Half Rb Middle	21.02	18.87
TDD48	3625	20	Half Rb High	22.38	20.23
TDD48	3625	20	Fullrb	22.36	20.21
TDD48	3697.5	5	One Rb High	22.36	20.21
TDD48	3697.5	5	One Rb Low	21.42	19.27
TDD48	3697.5	5	One Rb Middle	21.41	19.26
TDD48	3697.5	5	Half Rb Low	21.40	19.25
TDD48	3697.5	5	Half Rb Middle	21.44	19.29
TDD48	3697.5	5	Half Rb High	22.18	20.03
TDD48	3697.5	5	Fullrb	22.12	19.97
TDD48	3695	10	One Rb High	22.15	20.00
TDD48	3695	10	One Rb Low	21.38	19.23
TDD48	3695	10	One Rb Middle	21.37	19.22
TDD48	3695	10	Half Rb Low	21.42	19.27
TDD48	3695	10	Half Rb Middle	21.38	19.23
TDD48	3695	10	Half Rb High	22.07	19.92
TDD48	3695	10	Fullrb	22.12	19.97
TDD48	3692.5	15	One Rb High	22.17	20.02
TDD48	3692.5	15	One Rb Low	18.12	15.97
TDD48	3692.5	15	One Rb Middle	18.12	15.97
TDD48	3692.5	15	Half Rb Low	18.16	16.01
TDD48	3692.5	15	Half Rb Middle	21.37	19.22
TDD48	3692.5	15	Half Rb High	22.11	19.96
TDD48	3692.5	15	Fullrb	22.11	19.96
TDD48	3690	20	One Rb High	22.22	20.07
TDD48	3690	20	One Rb Low	21.41	19.26
TDD48	3690	20	One Rb Middle	21.39	19.24
TDD48	3690	20	Half Rb Low	21.36	19.21
TDD48	3690	20	Half Rb Middle	21.32	19.17
TDD48	3690	20	Half Rb High	21.66	19.51
TDD48	3690	20	Fullrb	21.72	19.57

64QAM

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Band	Frequency (MHz)	Band Width	RB size/offset	EIRP(dBm/10 megahertz)-64QAM	ERP(dBm/10 megahertz)-64QAM
TDD48	3552.5	5	One Rb High	20.57	18.42
TDD48	3552.5	5	One Rb Low	20.61	18.46
TDD48	3552.5	5	One Rb Middle	20.60	18.45
TDD48	3552.5	5	Half Rb Low	19.66	17.51
TDD48	3552.5	5	Half Rb Middle	19.66	17.51
TDD48	3552.5	5	Half Rb High	19.61	17.46
TDD48	3552.5	5	Fullrb	19.64	17.49
TDD48	3555	10	One Rb High	20.71	18.56
TDD48	3555	10	One Rb Low	20.93	18.78
TDD48	3555	10	One Rb Middle	20.88	18.73
TDD48	3555	10	Half Rb Low	19.57	17.42
TDD48	3555	10	Half Rb Middle	19.57	17.42
TDD48	3555	10	Half Rb High	19.49	17.34
TDD48	3555	10	Fullrb	19.55	17.40
TDD48	3557.5	15	One Rb High	20.60	18.45
TDD48	3557.5	15	One Rb Low	20.89	18.74
TDD48	3557.5	15	One Rb Middle	20.77	18.62
TDD48	3557.5	15	Half Rb Low	17.43	15.28
TDD48	3557.5	15	Half Rb Middle	17.42	15.27
TDD48	3557.5	15	Half Rb High	17.16	15.01
TDD48	3557.5	15	Fullrb	19.45	17.30
TDD48	3560	20	One Rb High	20.30	18.15
TDD48	3560	20	One Rb Low	20.46	18.31
TDD48	3560	20	One Rb Middle	20.32	18.17
TDD48	3560	20	Half Rb Low	19.50	17.35
TDD48	3560	20	Half Rb Middle	19.49	17.34
TDD48	3560	20	Half Rb High	19.38	17.23
TDD48	3560	20	Fullrb	19.42	17.27
TDD48	3625	5	One Rb High	21.15	19.00
TDD48	3625	5	One Rb Low	21.00	18.85
TDD48	3625	5	One Rb Middle	21.11	18.96
TDD48	3625	5	Half Rb Low	20.11	17.96
TDD48	3625	5	Half Rb Middle	20.11	17.96
TDD48	3625	5	Half Rb High	20.10	17.95
TDD48	3625	5	Fullrb	20.09	17.94
TDD48	3625	10	One Rb High	21.04	18.89
TDD48	3625	10	One Rb Low	20.79	18.64
TDD48	3625	10	One Rb Middle	21.02	18.87
TDD48	3625	10	Half Rb Low	20.04	17.89

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Band	Frequency (MHz)	Band Width	RB size/offset	EIRP(dBm/10 megahertz)-64QAM	ERP(dBm/10 megahertz)-64QAM
TDD48	3625	10	Half Rb Middle	19.99	17.84
TDD48	3625	10	Half Rb High	20.16	18.01
TDD48	3625	10	Fullrb	20.05	17.90
TDD48	3625	15	One Rb High	21.05	18.90
TDD48	3625	15	One Rb Low	20.64	18.49
TDD48	3625	15	One Rb Middle	21.00	18.85
TDD48	3625	15	Half Rb Low	17.87	15.72
TDD48	3625	15	Half Rb Middle	17.82	15.67
TDD48	3625	15	Half Rb High	18.27	16.12
TDD48	3625	15	Fullrb	20.01	17.86
TDD48	3625	20	One Rb High	21.47	19.32
TDD48	3625	20	One Rb Low	20.96	18.81
TDD48	3625	20	One Rb Middle	21.46	19.31
TDD48	3625	20	Half Rb Low	19.91	17.76
TDD48	3625	20	Half Rb Middle	19.91	17.76
TDD48	3625	20	Half Rb High	20.14	17.99
TDD48	3625	20	Fullrb	20.00	17.85
TDD48	3697.5	5	One Rb High	21.76	19.61
TDD48	3697.5	5	One Rb Low	21.70	19.55
TDD48	3697.5	5	One Rb Middle	21.70	19.55
TDD48	3697.5	5	Half Rb Low	20.44	18.29
TDD48	3697.5	5	Half Rb Middle	20.44	18.29
TDD48	3697.5	5	Half Rb High	20.43	18.28
TDD48	3697.5	5	Fullrb	20.41	18.26
TDD48	3695	10	One Rb High	21.66	19.51
TDD48	3695	10	One Rb Low	21.62	19.47
TDD48	3695	10	One Rb Middle	21.68	19.53
TDD48	3695	10	Half Rb Low	20.29	18.14
TDD48	3695	10	Half Rb Middle	20.30	18.15
TDD48	3695	10	Half Rb High	20.34	18.19
TDD48	3695	10	Fullrb	20.35	18.20
TDD48	3692.5	15	One Rb High	21.65	19.50
TDD48	3692.5	15	One Rb Low	21.63	19.48
TDD48	3692.5	15	One Rb Middle	21.65	19.50
TDD48	3692.5	15	Half Rb Low	18.12	15.97
TDD48	3692.5	15	Half Rb Middle	18.12	15.97
TDD48	3692.5	15	Half Rb High	18.15	16.00
TDD48	3692.5	15	Fullrb	20.32	18.17
TDD48	3690	20	One Rb High	21.16	19.01
TDD48	3690	20	One Rb Low	21.20	19.05

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TDD48	3690	20	One Rb Middle	21.24	19.09
TDD48	3690	20	Half Rb Low	20.36	18.21
TDD48	3690	20	Half Rb Middle	20.38	18.23
TDD48	3690	20	Half Rb High	20.31	18.16
TDD48	3690	20	Fullrb	20.32	18.17

256QAM

Band	Frequency (MHz)	Band Width	RB size/offset	EIRP(dBm/10 megahertz)-256QAM	ERP(dBm/10 megahertz)-256QAM
TDD48	3552.5	5	One Rb High	17.82	15.67
TDD48	3552.5	5	One Rb Low	17.92	15.77
TDD48	3552.5	5	One Rb Middle	17.83	15.68
TDD48	3552.5	5	Half Rb Low	17.57	15.42
TDD48	3552.5	5	Half Rb Middle	17.58	15.43
TDD48	3552.5	5	Half Rb High	17.50	15.35
TDD48	3552.5	5	Fullrb	17.62	15.47
TDD48	3555	10	One Rb High	17.26	15.11
TDD48	3555	10	One Rb Low	17.47	15.32
TDD48	3555	10	One Rb Middle	17.41	15.26
TDD48	3555	10	Half Rb Low	17.58	15.43
TDD48	3555	10	Half Rb Middle	17.56	15.41
TDD48	3555	10	Half Rb High	17.48	15.33
TDD48	3555	10	Fullrb	17.46	15.31
TDD48	3557.5	15	One Rb High	17.18	15.03
TDD48	3557.5	15	One Rb Low	17.40	15.25
TDD48	3557.5	15	One Rb Middle	17.32	15.17
TDD48	3557.5	15	Half Rb Low	17.42	15.27
TDD48	3557.5	15	Half Rb Middle	17.42	15.27
TDD48	3557.5	15	Half Rb High	17.18	15.03
TDD48	3557.5	15	Fullrb	17.42	15.27
TDD48	3560	20	One Rb High	17.47	15.32
TDD48	3560	20	One Rb Low	17.63	15.48
TDD48	3560	20	One Rb Middle	17.49	15.34
TDD48	3560	20	Half Rb Low	17.45	15.30
TDD48	3560	20	Half Rb Middle	17.45	15.30
TDD48	3560	20	Half Rb High	17.34	15.19
TDD48	3560	20	Fullrb	17.40	15.25
TDD48	3625	5	One Rb High	18.38	16.23
TDD48	3625	5	One Rb Low	18.26	16.11

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TDD48	3625	5	One Rb Middle	18.35	16.20
TDD48	3625	5	Half Rb Low	18.02	15.87
TDD48	3625	5	Half Rb Middle	18.02	15.87
TDD48	3625	5	Half Rb High	18.03	15.88
TDD48	3625	5	Fullrb	18.08	15.93
TDD48	3625	10	One Rb High	18.26	16.11
TDD48	3625	10	One Rb Low	18.00	15.85
TDD48	3625	10	One Rb Middle	18.27	16.12
TDD48	3625	10	Half Rb Low	17.98	15.83
TDD48	3625	10	Half Rb Middle	17.99	15.84
TDD48	3625	10	Half Rb High	18.11	15.96
TDD48	3625	10	Fullrb	18.07	15.92
TDD48	3625	15	One Rb High	18.29	16.14
TDD48	3625	15	One Rb Low	17.83	15.68
TDD48	3625	15	One Rb Middle	18.24	16.09
TDD48	3625	15	Half Rb Low	17.87	15.72
TDD48	3625	15	Half Rb Middle	17.87	15.72
TDD48	3625	15	Half Rb High	18.27	16.12
TDD48	3625	15	Fullrb	17.99	15.84
TDD48	3625	20	One Rb High	18.36	16.21
TDD48	3625	20	One Rb Low	17.85	15.70
TDD48	3625	20	One Rb Middle	18.38	16.23
TDD48	3625	20	Half Rb Low	17.86	15.71
TDD48	3625	20	Half Rb Middle	17.88	15.73
TDD48	3625	20	Half Rb High	18.09	15.94
TDD48	3625	20	Fullrb	17.98	15.83
TDD48	3697.5	5	One Rb High	18.65	16.50
TDD48	3697.5	5	One Rb Low	18.61	16.46
TDD48	3697.5	5	One Rb Middle	18.61	16.46
TDD48	3697.5	5	Half Rb Low	18.31	16.16
TDD48	3697.5	5	Half Rb Middle	18.31	16.16
TDD48	3697.5	5	Half Rb High	18.30	16.15
TDD48	3697.5	5	Fullrb	18.30	16.15
TDD48	3695	10	One Rb High	18.22	16.07
TDD48	3695	10	One Rb Low	18.15	16.00
TDD48	3695	10	One Rb Middle	18.21	16.06
TDD48	3695	10	Half Rb Low	18.30	16.15
TDD48	3695	10	Half Rb Middle	18.30	16.15
TDD48	3695	10	Half Rb High	18.32	16.17
TDD48	3695	10	Fullrb	18.29	16.14

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Band	Frequency (MHz)	Band Width	RB size/offset	EIRP(dBm/10 megahertz)-256QAM	ERP(dBm/10 megahertz)-256QAM
TDD48	3692.5	15	One Rb High	18.15	16.00
TDD48	3692.5	15	One Rb Low	18.15	16.00
TDD48	3692.5	15	One Rb Middle	18.16	16.01
TDD48	3692.5	15	Half Rb Low	18.12	15.97
TDD48	3692.5	15	Half Rb Middle	18.15	16.00
TDD48	3692.5	15	Half Rb High	18.16	16.01
TDD48	3692.5	15	Fullrb	18.31	16.16
TDD48	3690	20	One Rb High	18.34	16.19
TDD48	3690	20	One Rb Low	18.36	16.21
TDD48	3690	20	One Rb Middle	18.41	16.26
TDD48	3690	20	Half Rb Low	18.30	16.15
TDD48	3690	20	Half Rb Middle	18.29	16.14
TDD48	3690	20	Half Rb High	18.26	16.11
TDD48	3690	20	Fullrb	18.28	16.13

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6.3. EMISSION LIMIT

Specifications:	FCC Part 2.1051/96.41(e)
DUT Serial Number:	24B02W000037#S2
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	Pass

6.3.1. Measurement Limit

FCC§ 96.41(e)(1) General protection levels.

(i) Except as otherwise specified in paragraph (e)(2) of this section, for channel and frequency assignments made by the SAS to CBSDs, the conducted power of any CBSD emission outside the fundamental emission bandwidth as specified in paragraph (e)(3) of this section (whether the emission is inside or outside of the authorized band) shall not exceed -13 dBm/MHz within 0–10 megahertz above the upper SAS-assigned channel edge and within 0–10 megahertz below the lower SAS-assigned channel edge. At all frequencies greater than 10 megahertz above the upper SAS assigned channel edge and less than 10 MHz below the lower SAS assigned channel edge, the conducted power of any CBSD emission shall not exceed -25 dBm/MHz. The upper and lower SAS assigned channel edges are the upper and lower limits of any channel assigned to a CBSD by an SAS, or in the case of multiple contiguous channels, the upper and lower limits of the combined contiguous channels.

(ii) Except as otherwise specified in paragraph (e)(2) of this section, for channel and frequency assignments made by a CBSD to End User Devices, the conducted power of any End User Device emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed -13 dBm/MHz within 0 to B megahertz (where B is the bandwidth in megahertz of the assigned channel or multiple contiguous channels of the End User Device) above the upper CBSD-assigned channel edge and within 0 to B megahertz below the lower CBSD-assigned channel edge. At all frequencies greater than B megahertz above the upper CBSD assigned channel edge and less than B megahertz below the lower CBSD-assigned channel edge, the conducted power of any End User Device emission shall not exceed -25 dBm/MHz. Notwithstanding the emission limits in this paragraph, the Adjacent Channel Leakage Ratio for End User Devices shall be at least 30 dB.

(2) Additional protection levels. Notwithstanding paragraph (e)(1) of this section, for CBSDs and End User Devices, the conducted power of emissions below 3540 MHz or above 3710 MHz shall not exceed -25 dBm/MHz, and the conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed -40 dBm/MHz.

6.3.2. Method of Measurement

The measurements procedures in TIA-603E-2016 are used.

The spectrum was scanned from 30 MHz to the 10th harmonic of the highest frequency generated within the equipment. The resolution bandwidth is set as outlined in FCC §90.543

The spectrum is scanned with the mobile station transmitting at carrier frequencies that pertain to low, mid

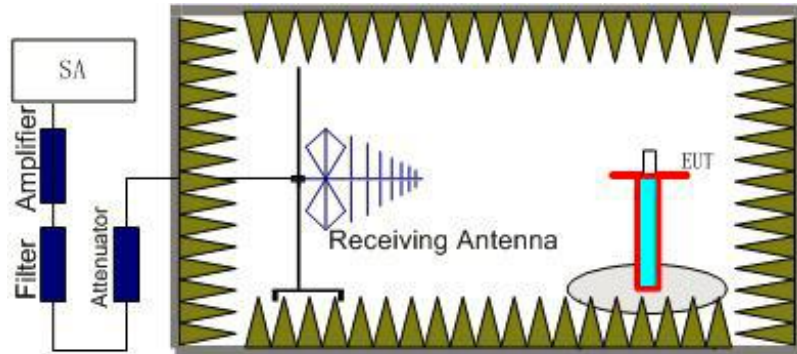
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and high channels of LTE Band.

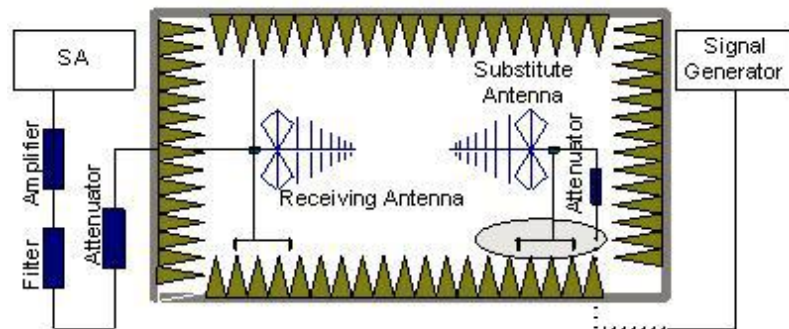
The procedure of radiated spurious emissions is as follows

1. EUT was placed on a 1.5 meter high non-conductive stand at a 3 meter test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT for emission measurements. The height of receiving antenna is 1.5m. The test setup refers to figure below. Detected emissions were maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna polarization. The radiated emission measurements of all non-harmonic and harmonics of the transmit frequency through the 10th harmonic were measured with peak detector.



2. The EUT is then put into continuously transmitting mode at its maximum power level during the test. And the maximum value of the receiver should be recorded as (Pr).

3. The EUT shall be replaced by a substitution antenna. The test setup refers to figure below.



In the chamber, an substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power (PMea) is applied to the input of the substitution antenna, and adjust the level of the signal generator output until the value of the receiver reach the previously recorded (Pr). The power of signal source (PMea) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.

4. The Path loss (Pcl) between the Signal Source with the Substitution Antenna and the Substitution Antenna Gain (Ga) should be recorded after test.

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A amplifier should be connected in for the test.

The Path loss (Pcl) is the summation of the cable loss .

The measurement results are obtained as described below:

Power(EIRP)=PMea- Pcl+ Ga

5. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dBi) and known input power.

6. ERP can be calculated from EIRP by subtracting the gain of the dipole, ERP = EIRP -2.15dBi

6.3.3. Measurement Uncertainty

Expanded Uncertainty	30MHz-150MHz 3.82 dB (k=2) 150MHz-1000MHz 3.97 dB (k=2) 1000MHz-3000MHz 3.09 dB (k=2) 3000MHz-6000MHz 3.29 dB (k=2) 6000MHz-18000MHz 3.91 dB (k=2) 18000MHz-26000MHz 4.60 dB (k=2) 26000MHz-40000MHz 4.77 dB (k=2)
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6.3.4. Measurement Results

Band	BW (MHz)	RB Config	Modulation	Channel	Frequency Range	Result
Band 48	5	OneRB_low	QPSK	Low	30MHz~20GHz	PASS
				Middle	30MHz~20GHz	PASS
				High	30MHz~20GHz	PASS

RSE-LTE48-L

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Peak ERP (dBm)	Limit (dBm)	Polarization
5177.7	-42.39	8.0	9.4	-40.99	-13	H
7181.1	-38.98	9.5	11.4	-37.08	-13	V
9280.0	-51.01	10.7	12.7	-49.01	-13	V
10377.0	-47.56	11.6	12.3	-46.86	-13	H
13907.0	-44.99	13.5	12.3	-46.19	-13	H
17930.0	-32.93	16.2	12.3	-36.83	-13	V

RSE-LTE48-M

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Peak ERP (dBm)	Limit (dBm)	Polarization
4631.2	-44	7.5	9.0	-42.5	-13	V
7234.8	-39.59	9.6	11.4	-37.79	-13	V
9207.0	-50.63	10.5	12.6	-48.53	-13	V

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10984.0	-46.11	12.0	12.3	-45.81	-13	H
14613.0	-42.96	14.0	12.3	-44.66	-13	H
17803.0	-34.79	16.0	12.3	-38.49	-13	V

RSE-LTE48-H

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Peak ERP (dBm)	Limit (dBm)	Polarization
4380.1	-45.07	7.3	8.7	-43.67	-13	V
5837.7	-42.84	8.4	10.2	-41.04	-13	H
7295.0	-39.17	9.6	11.4	-37.37	-13	H
10378.0	-47.5	11.6	12.3	-46.8	-13	H
13983.0	-44.68	13.7	12.3	-46.08	-13	H
17700.0	-34.66	15.8	12.3	-38.16	-13	V

Note: Only worse case is recorded in this report.

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Annex A EUT Photos

See the document "24B02W000037-External Photos".

See the document "24B02W000037-Internal Photos".

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Annex B Deviations from Prescribed Test Methods

No deviation from Prescribed Test Methods.

*****END OF REPORT*****

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