



TEST REPORT

REPORT NUMBER: 24B02W000037-003
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 90
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.
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Chongqing Academy of Information and Communications Technology.



Report No.: 24B02W000037-003

Revision Version

Report Number	Revision	Date
24B02W000037-003	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:	2024-09-20

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

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
NR Frequency Band	NR n2/n5/n7/n12/n14/n25/n30/n41/n66/n71/n77/n78
Type of NR modulation	CP-OFDM: QPSK/16QAM/64QAM/256QAM DFT-s-OFDM:PI/2 BPSK/QPSK/16QAM/64QAM/256QAM
Power Class 2	n41/n77/n78
Power Class 3	n2/n5/n7/n12/n14/n25/n30/n66/n71
Extreme Temperature	-20/+60°C
Nominal Voltage	24V
Extreme High Voltage	25.2V
Extreme 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
NR	14	788 – 798	758 – 768	--

Band	BW (MHz)	Low Channel	Low Freq. (MHz)	Mid Channel	Mid Freq. (MHz)	High Channel	High Freq. (MHz)
n14	5	158100	790.5	158600	793	159100	795.5

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Band	BW (MHz)	Low Channel	Low Freq. (MHz)	Mid Channel	Mid Freq. (MHz)	High Channel	High Freq. (MHz)
(788-798MHz)	10	158600	793	158600	793	158600	793

No.	Maximum of Antenna Gain	Data
1	n14	0.43 dBi

Note: The data of antenna gain is provided by Antenna specification may affect the validity of the test results in this report, and the impact and consequences of this shall be undertaken by the customer.

Note: This is a report for LTE B26(814-824MHz) only.

3.4. Internal Identification of AE used during the test

AE ID*	Description	Model	SN/Remark
24B02W000037#AE1	RF Cable	N/A	N/A

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

* By verifying that BA04 is the worst battery and adapter combination, this battery and adapter are used in all tests.

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4. 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 90	Regulations Governing The Licensing And Use Of Frequencies In The 763-775 And 793-805 MHz Bands	--
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 has not been accredited by A2LA.		

5. Test Equipments Utilized

5.1. RF Test System

No.	Equipment	Model	SN	HW Version	SW Version	Manufacture	Cal. Interval	Cal.Due Date
1	Universal Radio Communication Tester	SP9500-CTS	SP9500-20699	--	--	StarPoint	1 Year	2025-06-28
2	Splitter	--	--	--	--	--	--	--

5.2. RSE Test System

No.	Equipment	Model	SN	HW Version	SW Version	Manufacture	Cal. Interval	Cal.Due Date
1	EMI Test Receiver	ESU40	100307	01	4.43 SP3	R&S	1 Year	2025-06-28
2	TRILOG Broadband Antenna	VULB9163	9163-586	--	--	Schwarzbeck	1 Year	2024-10-28
3	Horn antenna	9120D	1083	--	--	Schwarzbeck	2 Year	2024-12-14
4	Horn antenna	DATE 1152	LM7127	--	--	ETS	2 Year	2026-09-30
5	Horn antenna	DATE 1012	LM5945	--	--	ETS	2 Year	2026-09-30
6	Amplifier1	SCU-08F1	8320027	--	--	R&S	1 Year	2025-06-28
7	Amplifier2	SCU-18F	180093	--	--	R&S	1 Year	2025-06-28
8	Universal Radio Communication Tester	SP9500	19155	--	--	StarPoint	1 Year	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	Manufacture	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.

FCC Rules	Name of Test	Result
2.1046/90.542(a)(7)	Output Power and EIRP/ERP	PASS
2.1053/90.543(e)/90.543(f)	Emission Limit	PASS
2.1055/90.539	Frequency Stability	Refer to the report (Report No.: SAR/2021/4000902 ,SRTC2021-9004(F)-21082802(N))
2.1049	Occupied Bandwidth	Refer to the report (Report No.: SAR/2021/4000902 ,SRTC2021-9004(F)-21082802(N))
90.209(b)	Emission Bandwidth	Refer to the report (Report No.: SAR/2021/4000902 ,SRTC2021-9004(F)-21082802(N))
2.1051/90.543(e)/90.543(f)	Band Edge Compliance	Refer to the report (Report No.: SAR/2021/4000902 ,SRTC2021-9004(F)-21082802(N))
2.1051/90.543(e)/90.543(f)	Conducted Spurious Emission	Refer to the report (Report No.: SAR/2021/4000902 ,SRTC2021-9004(F)-21082802(N))
N/A	Peak to Average Power Ratio	Refer to the report (Report No.: SAR/2021/4000902 ,SRTC2021-9004(F)-21082802(N))

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 13/12/2022, 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 and Effective Radiated Power also re-evaluated. Other test items refer to the FG360-NA Module report (Report No.: SAR/2021/4000902 and SRTC2021-9004(F)-21082802(N), 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 2.1046/90.542(a)(7)
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 Part 2.1046/90.542(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.

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	0.68dB (k=2)
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6.2.5. Test Setup



6.2.6. Test result

Band Name	Power Class	SCS	Band width	Channel	NrModulation	NrRBCfg	NrRBValue	NrResult [dBm]	ERP [dBm]	Verdict
N14	PC3	15	5	L	DFT-PI2BPSK	Inner_1RB_Left	1@1	22.16	20.44	PASS
N14	PC3	15	5	M	DFT-PI2BPSK	Inner_1RB_Left	1@1	21.91	20.19	PASS
N14	PC3	15	5	H	DFT-PI2BPSK	Inner_1RB_Left	1@1	21.9	20.18	PASS
N14	PC3	15	5	L	DFT-PI2BPSK	Inner_1RB_Right	1@23	21.91	20.19	PASS
N14	PC3	15	5	M	DFT-PI2BPSK	Inner_1RB_Right	1@23	21.87	20.15	PASS
N14	PC3	15	5	H	DFT-PI2BPSK	Inner_1RB_Right	1@23	21.98	20.26	PASS
N14	PC3	15	5	L	DFT-PI2BPSK	Inner_Full	12@6	21.98	20.26	PASS
N14	PC3	15	5	M	DFT-PI2BPSK	Inner_Full	12@6	21.9	20.18	PASS
N14	PC3	15	5	H	DFT-PI2BPSK	Inner_Full	12@6	21.83	20.11	PASS
N14	PC3	15	5	L	DFT-QPSK	Inner_1RB_Left	1@1	22	20.28	PASS
N14	PC3	15	5	M	DFT-QPSK	Inner_1RB_Left	1@1	21.88	20.16	PASS
N14	PC3	15	5	H	DFT-QPSK	Inner_1RB_Left	1@1	21.92	20.2	PASS
N14	PC3	15	5	L	DFT-QPSK	Inner_1RB_Right	1@23	21.86	20.14	PASS
N14	PC3	15	5	M	DFT-QPSK	Inner_1RB_Right	1@23	21.8	20.08	PASS
N14	PC3	15	5	H	DFT-QPSK	Inner_1RB_Right	1@23	21.96	20.24	PASS
N14	PC3	15	5	L	DFT-QPSK	Inner_Full	12@6	22.04	20.32	PASS
N14	PC3	15	5	M	DFT-QPSK	Inner_Full	12@6	21.91	20.19	PASS
N14	PC3	15	5	H	DFT-QPSK	Inner_Full	12@6	21.88	20.16	PASS
N14	PC3	15	5	L	DFT-16QAM	Inner_1RB_Left	1@1	20.9	19.18	PASS
N14	PC3	15	5	M	DFT-16QAM	Inner_1RB_Left	1@1	20.77	19.05	PASS
N14	PC3	15	5	H	DFT-16QAM	Inner_1RB_Left	1@1	20.72	19	PASS
N14	PC3	15	5	L	DFT-16QAM	Inner_1RB_Right	1@23	20.66	18.94	PASS
N14	PC3	15	5	M	DFT-16QAM	Inner_1RB_Right	1@23	20.63	18.91	PASS
N14	PC3	15	5	H	DFT-16QAM	Inner_1RB_Right	1@23	20.82	19.1	PASS
N14	PC3	15	5	L	DFT-16QAM	Inner_Full	12@6	21.04	19.32	PASS
N14	PC3	15	5	M	DFT-16QAM	Inner_Full	12@6	20.94	19.22	PASS
N14	PC3	15	5	H	DFT-16QAM	Inner_Full	12@6	20.86	19.14	PASS
N14	PC3	15	5	L	DFT-64QAM	Inner_1RB_Left	1@1	19.67	17.95	PASS
N14	PC3	15	5	M	DFT-64QAM	Inner_1RB_Left	1@1	19.37	17.65	PASS

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Band Name	Power Class	SCS	Band width	Channel	NrModulation	NrRBCfg	NrRBValue	NrResult [dBm]	ERP [dBm]	Verdict
N14	PC3	15	5	H	DFT-64QAM	Inner_1RB_Left	1@1	19.37	17.65	PASS
N14	PC3	15	5	L	DFT-64QAM	Inner_1RB_Right	1@23	19.31	17.59	PASS
N14	PC3	15	5	M	DFT-64QAM	Inner_1RB_Right	1@23	19.34	17.62	PASS
N14	PC3	15	5	H	DFT-64QAM	Inner_1RB_Right	1@23	19.63	17.91	PASS
N14	PC3	15	5	L	DFT-64QAM	Inner_Full	12@6	19.5	17.78	PASS
N14	PC3	15	5	M	DFT-64QAM	Inner_Full	12@6	19.38	17.66	PASS
N14	PC3	15	5	H	DFT-64QAM	Inner_Full	12@6	19.33	17.61	PASS
N14	PC3	15	5	L	DFT-256QAM	Inner_1RB_Left	1@1	18.19	16.47	PASS
N14	PC3	15	5	M	DFT-256QAM	Inner_1RB_Left	1@1	17.95	16.23	PASS
N14	PC3	15	5	H	DFT-256QAM	Inner_1RB_Left	1@1	17.89	16.17	PASS
N14	PC3	15	5	L	DFT-256QAM	Inner_1RB_Right	1@23	18.02	16.3	PASS
N14	PC3	15	5	M	DFT-256QAM	Inner_1RB_Right	1@23	17.82	16.1	PASS
N14	PC3	15	5	H	DFT-256QAM	Inner_1RB_Right	1@23	17.93	16.21	PASS
N14	PC3	15	5	L	DFT-256QAM	Inner_Full	12@6	17.61	15.89	PASS
N14	PC3	15	5	M	DFT-256QAM	Inner_Full	12@6	17.47	15.75	PASS
N14	PC3	15	5	H	DFT-256QAM	Inner_Full	12@6	17.45	15.73	PASS
N14	PC3	15	5	L	CP-QPSK	Inner_1RB_Left	1@1	20.89	19.17	PASS
N14	PC3	15	5	M	CP-QPSK	Inner_1RB_Left	1@1	20.56	18.84	PASS
N14	PC3	15	5	H	CP-QPSK	Inner_1RB_Left	1@1	20.58	18.86	PASS
N14	PC3	15	5	L	CP-QPSK	Inner_1RB_Right	1@23	20.41	18.69	PASS
N14	PC3	15	5	M	CP-QPSK	Inner_1RB_Right	1@23	20.37	18.65	PASS
N14	PC3	15	5	H	CP-QPSK	Inner_1RB_Right	1@23	20.65	18.93	PASS
N14	PC3	15	5	L	CP-QPSK	Inner_Full	13@6	20.46	18.74	PASS
N14	PC3	15	5	M	CP-QPSK	Inner_Full	13@6	20.36	18.64	PASS
N14	PC3	15	5	H	CP-QPSK	Inner_Full	13@6	20.32	18.6	PASS
N14	PC3	15	5	L	CP-16QAM	Inner_1RB_Left	1@1	21.16	19.44	PASS
N14	PC3	15	5	M	CP-16QAM	Inner_1RB_Left	1@1	20.49	18.77	PASS
N14	PC3	15	5	H	CP-16QAM	Inner_1RB_Left	1@1	20.69	18.97	PASS
N14	PC3	15	5	L	CP-16QAM	Inner_1RB_Right	1@23	20.44	18.72	PASS
N14	PC3	15	5	M	CP-16QAM	Inner_1RB_Right	1@23	20.64	18.92	PASS
N14	PC3	15	5	H	CP-16QAM	Inner_1RB_Right	1@23	21.01	19.29	PASS
N14	PC3	15	5	L	CP-16QAM	Inner_Full	13@6	19.92	18.2	PASS
N14	PC3	15	5	M	CP-16QAM	Inner_Full	13@6	19.86	18.14	PASS
N14	PC3	15	5	H	CP-16QAM	Inner_Full	13@6	19.77	18.05	PASS
N14	PC3	15	5	L	CP-64QAM	Inner_1RB_Left	1@1	18.79	17.07	PASS
N14	PC3	15	5	M	CP-64QAM	Inner_1RB_Left	1@1	18.53	16.81	PASS
N14	PC3	15	5	H	CP-64QAM	Inner_1RB_Left	1@1	18.48	16.76	PASS
N14	PC3	15	5	L	CP-64QAM	Inner_1RB_Right	1@23	18.63	16.91	PASS
N14	PC3	15	5	M	CP-64QAM	Inner_1RB_Right	1@23	18.39	16.67	PASS
N14	PC3	15	5	H	CP-64QAM	Inner_1RB_Right	1@23	18.6	16.88	PASS
N14	PC3	15	5	L	CP-64QAM	Inner_Full	13@6	18.59	16.87	PASS
N14	PC3	15	5	M	CP-64QAM	Inner_Full	13@6	18.52	16.8	PASS
N14	PC3	15	5	H	CP-64QAM	Inner_Full	13@6	18.47	16.75	PASS

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Band Name	Power Class	SCS	Band width	Channel	NrModulation	NrRBCfg	NrRBValue	NrResult [dBm]	ERP [dBm]	Verdict
N14	PC3	15	5	L	CP-256QAM	Inner_1RB_Left	1@1	16.02	14.3	PASS
N14	PC3	15	5	M	CP-256QAM	Inner_1RB_Left	1@1	15.83	14.11	PASS
N14	PC3	15	5	H	CP-256QAM	Inner_1RB_Left	1@1	15.77	14.05	PASS
N14	PC3	15	5	L	CP-256QAM	Inner_1RB_Right	1@23	15.78	14.06	PASS
N14	PC3	15	5	M	CP-256QAM	Inner_1RB_Right	1@23	15.7	13.98	PASS
N14	PC3	15	5	H	CP-256QAM	Inner_1RB_Right	1@23	15.76	14.04	PASS
N14	PC3	15	5	L	CP-256QAM	Inner_Full	13@6	15.5	13.78	PASS
N14	PC3	15	5	M	CP-256QAM	Inner_Full	13@6	15.43	13.71	PASS
N14	PC3	15	5	H	CP-256QAM	Inner_Full	13@6	15.41	13.69	PASS
N14	PC3	15	10	L	DFT-P12BPSK	Inner_1RB_Left	1@1	21.97	20.25	PASS
N14	PC3	15	10	M	DFT-P12BPSK	Inner_1RB_Left	1@1	22	20.28	PASS
N14	PC3	15	10	H	DFT-P12BPSK	Inner_1RB_Left	1@1	21.96	20.24	PASS
N14	PC3	15	10	L	DFT-P12BPSK	Inner_1RB_Right	1@50	21.9	20.18	PASS
N14	PC3	15	10	M	DFT-P12BPSK	Inner_1RB_Right	1@50	21.92	20.2	PASS
N14	PC3	15	10	H	DFT-P12BPSK	Inner_1RB_Right	1@50	21.93	20.21	PASS
N14	PC3	15	10	L	DFT-P12BPSK	Inner_Full	25@12	21.73	20.01	PASS
N14	PC3	15	10	M	DFT-P12BPSK	Inner_Full	25@12	21.72	20	PASS
N14	PC3	15	10	H	DFT-P12BPSK	Inner_Full	25@12	21.66	19.94	PASS
N14	PC3	15	10	L	DFT-QPSK	Inner_1RB_Left	1@1	21.87	20.15	PASS
N14	PC3	15	10	M	DFT-QPSK	Inner_1RB_Left	1@1	21.88	20.16	PASS
N14	PC3	15	10	H	DFT-QPSK	Inner_1RB_Left	1@1	21.89	20.17	PASS
N14	PC3	15	10	L	DFT-QPSK	Inner_1RB_Right	1@50	21.74	20.02	PASS
N14	PC3	15	10	M	DFT-QPSK	Inner_1RB_Right	1@50	21.78	20.06	PASS
N14	PC3	15	10	H	DFT-QPSK	Inner_1RB_Right	1@50	21.76	20.04	PASS
N14	PC3	15	10	L	DFT-QPSK	Inner_Full	25@12	21.73	20.01	PASS
N14	PC3	15	10	M	DFT-QPSK	Inner_Full	25@12	21.71	19.99	PASS
N14	PC3	15	10	H	DFT-QPSK	Inner_Full	25@12	21.75	20.03	PASS
N14	PC3	15	10	L	DFT-16QAM	Inner_1RB_Left	1@1	20.76	19.04	PASS
N14	PC3	15	10	M	DFT-16QAM	Inner_1RB_Left	1@1	20.73	19.01	PASS
N14	PC3	15	10	H	DFT-16QAM	Inner_1RB_Left	1@1	20.79	19.07	PASS
N14	PC3	15	10	L	DFT-16QAM	Inner_1RB_Right	1@50	20.67	18.95	PASS
N14	PC3	15	10	M	DFT-16QAM	Inner_1RB_Right	1@50	20.69	18.97	PASS
N14	PC3	15	10	H	DFT-16QAM	Inner_1RB_Right	1@50	20.73	19.01	PASS
N14	PC3	15	10	L	DFT-16QAM	Inner_Full	25@12	20.66	18.94	PASS
N14	PC3	15	10	M	DFT-16QAM	Inner_Full	25@12	20.7	18.98	PASS
N14	PC3	15	10	H	DFT-16QAM	Inner_Full	25@12	20.67	18.95	PASS
N14	PC3	15	10	L	DFT-64QAM	Inner_1RB_Left	1@1	19.57	17.85	PASS
N14	PC3	15	10	M	DFT-64QAM	Inner_1RB_Left	1@1	19.54	17.82	PASS
N14	PC3	15	10	H	DFT-64QAM	Inner_1RB_Left	1@1	19.63	17.91	PASS
N14	PC3	15	10	L	DFT-64QAM	Inner_1RB_Right	1@50	19.43	17.71	PASS
N14	PC3	15	10	M	DFT-64QAM	Inner_1RB_Right	1@50	19.46	17.74	PASS
N14	PC3	15	10	H	DFT-64QAM	Inner_1RB_Right	1@50	19.6	17.88	PASS
N14	PC3	15	10	L	DFT-64QAM	Inner_Full	25@12	19.13	17.41	PASS

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Band Name	Power Class	SCS	Band width	Channel	NrModulation	NrRBCfg	NrRBValue	NrResult [dBm]	ERP [dBm]	Verdict
N14	PC3	15	10	M	DFT-64QAM	Inner_Full	25@12	19.15	17.43	PASS
N14	PC3	15	10	H	DFT-64QAM	Inner_Full	25@12	19.13	17.41	PASS
N14	PC3	15	10	L	DFT-256QAM	Inner_1RB_Left	1@1	17.97	16.25	PASS
N14	PC3	15	10	M	DFT-256QAM	Inner_1RB_Left	1@1	17.96	16.24	PASS
N14	PC3	15	10	H	DFT-256QAM	Inner_1RB_Left	1@1	17.94	16.22	PASS
N14	PC3	15	10	L	DFT-256QAM	Inner_1RB_Right	1@50	17.82	16.1	PASS
N14	PC3	15	10	M	DFT-256QAM	Inner_1RB_Right	1@50	17.83	16.11	PASS
N14	PC3	15	10	H	DFT-256QAM	Inner_1RB_Right	1@50	17.85	16.13	PASS
N14	PC3	15	10	L	DFT-256QAM	Inner_Full	25@12	17.36	15.64	PASS
N14	PC3	15	10	M	DFT-256QAM	Inner_Full	25@12	17.34	15.62	PASS
N14	PC3	15	10	H	DFT-256QAM	Inner_Full	25@12	17.32	15.6	PASS
N14	PC3	15	10	L	CP-QPSK	Inner_1RB_Left	1@1	20.5	18.78	PASS
N14	PC3	15	10	M	CP-QPSK	Inner_1RB_Left	1@1	20.53	18.81	PASS
N14	PC3	15	10	H	CP-QPSK	Inner_1RB_Left	1@1	20.46	18.74	PASS
N14	PC3	15	10	L	CP-QPSK	Inner_1RB_Right	1@50	20.42	18.7	PASS
N14	PC3	15	10	M	CP-QPSK	Inner_1RB_Right	1@50	20.34	18.62	PASS
N14	PC3	15	10	H	CP-QPSK	Inner_1RB_Right	1@50	20.35	18.63	PASS
N14	PC3	15	10	L	CP-QPSK	Inner_Full	26@13	20.15	18.43	PASS
N14	PC3	15	10	M	CP-QPSK	Inner_Full	26@13	20.15	18.43	PASS
N14	PC3	15	10	H	CP-QPSK	Inner_Full	26@13	20.15	18.43	PASS
N14	PC3	15	10	L	CP-16QAM	Inner_1RB_Left	1@1	20.91	19.19	PASS
N14	PC3	15	10	M	CP-16QAM	Inner_1RB_Left	1@1	20.85	19.13	PASS
N14	PC3	15	10	H	CP-16QAM	Inner_1RB_Left	1@1	20.87	19.15	PASS
N14	PC3	15	10	L	CP-16QAM	Inner_1RB_Right	1@50	20.83	19.11	PASS
N14	PC3	15	10	M	CP-16QAM	Inner_1RB_Right	1@50	20.93	19.21	PASS
N14	PC3	15	10	H	CP-16QAM	Inner_1RB_Right	1@50	20.91	19.19	PASS
N14	PC3	15	10	L	CP-16QAM	Inner_Full	26@13	19.64	17.92	PASS
N14	PC3	15	10	M	CP-16QAM	Inner_Full	26@13	19.68	17.96	PASS
N14	PC3	15	10	H	CP-16QAM	Inner_Full	26@13	19.65	17.93	PASS
N14	PC3	15	10	L	CP-64QAM	Inner_1RB_Left	1@1	18.57	16.85	PASS
N14	PC3	15	10	M	CP-64QAM	Inner_1RB_Left	1@1	18.7	16.98	PASS
N14	PC3	15	10	H	CP-64QAM	Inner_1RB_Left	1@1	18.67	16.95	PASS
N14	PC3	15	10	L	CP-64QAM	Inner_1RB_Right	1@50	18.47	16.75	PASS
N14	PC3	15	10	M	CP-64QAM	Inner_1RB_Right	1@50	18.49	16.77	PASS
N14	PC3	15	10	H	CP-64QAM	Inner_1RB_Right	1@50	18.54	16.82	PASS
N14	PC3	15	10	L	CP-64QAM	Inner_Full	26@13	18.34	16.62	PASS
N14	PC3	15	10	M	CP-64QAM	Inner_Full	26@13	18.32	16.6	PASS
N14	PC3	15	10	H	CP-64QAM	Inner_Full	26@13	18.37	16.65	PASS
N14	PC3	15	10	L	CP-256QAM	Inner_1RB_Left	1@1	15.79	14.07	PASS
N14	PC3	15	10	M	CP-256QAM	Inner_1RB_Left	1@1	15.79	14.07	PASS
N14	PC3	15	10	H	CP-256QAM	Inner_1RB_Left	1@1	15.78	14.06	PASS
N14	PC3	15	10	L	CP-256QAM	Inner_1RB_Right	1@50	15.71	13.99	PASS
N14	PC3	15	10	M	CP-256QAM	Inner_1RB_Right	1@50	15.7	13.98	PASS

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Band Name	Power Class	SCS	Band width	Channel	NrModulation	NrRBCfg	NrRBValue	NrResult [dBm]	ERP [dBm]	Verdict
N14	PC3	15	10	H	CP-256QAM	Inner_1RB_Right	1@50	15.69	13.97	PASS
N14	PC3	15	10	L	CP-256QAM	Inner_Full	26@13	15.33	13.61	PASS
N14	PC3	15	10	M	CP-256QAM	Inner_Full	26@13	15.32	13.6	PASS
N14	PC3	15	10	H	CP-256QAM	Inner_Full	26@13	15.34	13.62	PASS
N14	PC3	30	10	L	DFT-P12BPSK	Inner_1RB_Left	1@1	22.01	20.29	PASS
N14	PC3	30	10	M	DFT-P12BPSK	Inner_1RB_Left	1@1	22.04	20.32	PASS
N14	PC3	30	10	H	DFT-P12BPSK	Inner_1RB_Left	1@1	22.02	20.3	PASS
N14	PC3	30	10	L	DFT-P12BPSK	Inner_1RB_Right	1@22	21.83	20.11	PASS
N14	PC3	30	10	M	DFT-P12BPSK	Inner_1RB_Right	1@22	21.79	20.07	PASS
N14	PC3	30	10	H	DFT-P12BPSK	Inner_1RB_Right	1@22	21.84	20.12	PASS
N14	PC3	30	10	L	DFT-P12BPSK	Inner_Full	12@6	22.01	20.29	PASS
N14	PC3	30	10	M	DFT-P12BPSK	Inner_Full	12@6	21.97	20.25	PASS
N14	PC3	30	10	H	DFT-P12BPSK	Inner_Full	12@6	21.95	20.23	PASS
N14	PC3	30	10	L	DFT-QPSK	Inner_1RB_Left	1@1	21.99	20.27	PASS
N14	PC3	30	10	M	DFT-QPSK	Inner_1RB_Left	1@1	22.1	20.38	PASS
N14	PC3	30	10	H	DFT-QPSK	Inner_1RB_Left	1@1	21.98	20.26	PASS
N14	PC3	30	10	L	DFT-QPSK	Inner_1RB_Right	1@22	21.79	20.07	PASS
N14	PC3	30	10	M	DFT-QPSK	Inner_1RB_Right	1@22	21.93	20.21	PASS
N14	PC3	30	10	H	DFT-QPSK	Inner_1RB_Right	1@22	21.82	20.1	PASS
N14	PC3	30	10	L	DFT-QPSK	Inner_Full	12@6	22.05	20.33	PASS
N14	PC3	30	10	M	DFT-QPSK	Inner_Full	12@6	22	20.28	PASS
N14	PC3	30	10	H	DFT-QPSK	Inner_Full	12@6	22.08	20.36	PASS
N14	PC3	30	10	L	DFT-16QAM	Inner_1RB_Left	1@1	22.4	20.68	PASS
N14	PC3	30	10	M	DFT-16QAM	Inner_1RB_Left	1@1	21.81	20.09	PASS
N14	PC3	30	10	H	DFT-16QAM	Inner_1RB_Left	1@1	22.48	20.76	PASS
N14	PC3	30	10	L	DFT-16QAM	Inner_1RB_Right	1@22	22.7	20.98	PASS
N14	PC3	30	10	M	DFT-16QAM	Inner_1RB_Right	1@22	21.85	20.13	PASS
N14	PC3	30	10	H	DFT-16QAM	Inner_1RB_Right	1@22	22.67	20.95	PASS
N14	PC3	30	10	L	DFT-16QAM	Inner_Full	12@6	21.02	19.3	PASS
N14	PC3	30	10	M	DFT-16QAM	Inner_Full	12@6	20.9	19.18	PASS
N14	PC3	30	10	H	DFT-16QAM	Inner_Full	12@6	21.01	19.29	PASS
N14	PC3	30	10	L	DFT-64QAM	Inner_1RB_Left	1@1	19.66	17.94	PASS
N14	PC3	30	10	M	DFT-64QAM	Inner_1RB_Left	1@1	19.52	17.8	PASS
N14	PC3	30	10	H	DFT-64QAM	Inner_1RB_Left	1@1	19.61	17.89	PASS
N14	PC3	30	10	L	DFT-64QAM	Inner_1RB_Right	1@22	19.49	17.77	PASS
N14	PC3	30	10	M	DFT-64QAM	Inner_1RB_Right	1@22	19.39	17.67	PASS
N14	PC3	30	10	H	DFT-64QAM	Inner_1RB_Right	1@22	19.49	17.77	PASS
N14	PC3	30	10	L	DFT-64QAM	Inner_Full	12@6	19.39	17.67	PASS
N14	PC3	30	10	M	DFT-64QAM	Inner_Full	12@6	19.51	17.79	PASS
N14	PC3	30	10	H	DFT-64QAM	Inner_Full	12@6	19.44	17.72	PASS
N14	PC3	30	10	L	DFT-256QAM	Inner_1RB_Left	1@1	17.76	16.04	PASS
N14	PC3	30	10	M	DFT-256QAM	Inner_1RB_Left	1@1	17.7	15.98	PASS
N14	PC3	30	10	H	DFT-256QAM	Inner_1RB_Left	1@1	17.74	16.02	PASS

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Band Name	Power Class	SCS	Band width	Channel	NrModulation	NrRBCfg	NrRBValue	NrResult [dBm]	ERP [dBm]	Verdict
N14	PC3	30	10	L	DFT-256QAM	Inner_1RB_Right	1@22	17.61	15.89	PASS
N14	PC3	30	10	M	DFT-256QAM	Inner_1RB_Right	1@22	17.53	15.81	PASS
N14	PC3	30	10	H	DFT-256QAM	Inner_1RB_Right	1@22	17.59	15.87	PASS
N14	PC3	30	10	L	DFT-256QAM	Inner_Full	12@6	17.7	15.98	PASS
N14	PC3	30	10	M	DFT-256QAM	Inner_Full	12@6	17.56	15.84	PASS
N14	PC3	30	10	H	DFT-256QAM	Inner_Full	12@6	17.66	15.94	PASS
N14	PC3	30	10	L	CP-QPSK	Inner_1RB_Left	1@1	20.48	18.76	PASS
N14	PC3	30	10	M	CP-QPSK	Inner_1RB_Left	1@1	20.52	18.8	PASS
N14	PC3	30	10	H	CP-QPSK	Inner_1RB_Left	1@1	20.43	18.71	PASS
N14	PC3	30	10	L	CP-QPSK	Inner_1RB_Right	1@22	20.09	18.37	PASS
N14	PC3	30	10	M	CP-QPSK	Inner_1RB_Right	1@22	20.3	18.58	PASS
N14	PC3	30	10	H	CP-QPSK	Inner_1RB_Right	1@22	20.1	18.38	PASS
N14	PC3	30	10	L	CP-QPSK	Inner_Full	12@6	20.41	18.69	PASS
N14	PC3	30	10	M	CP-QPSK	Inner_Full	12@6	20.34	18.62	PASS
N14	PC3	30	10	H	CP-QPSK	Inner_Full	12@6	20.42	18.7	PASS
N14	PC3	30	10	L	CP-16QAM	Inner_1RB_Left	1@1	20.31	18.59	PASS
N14	PC3	30	10	M	CP-16QAM	Inner_1RB_Left	1@1	20.13	18.41	PASS
N14	PC3	30	10	H	CP-16QAM	Inner_1RB_Left	1@1	20.27	18.55	PASS
N14	PC3	30	10	L	CP-16QAM	Inner_1RB_Right	1@22	19.97	18.25	PASS
N14	PC3	30	10	M	CP-16QAM	Inner_1RB_Right	1@22	19.85	18.13	PASS
N14	PC3	30	10	H	CP-16QAM	Inner_1RB_Right	1@22	20	18.28	PASS
N14	PC3	30	10	L	CP-16QAM	Inner_Full	12@6	20.02	18.3	PASS
N14	PC3	30	10	M	CP-16QAM	Inner_Full	12@6	19.99	18.27	PASS
N14	PC3	30	10	H	CP-16QAM	Inner_Full	12@6	20.01	18.29	PASS
N14	PC3	30	10	L	CP-64QAM	Inner_1RB_Left	1@1	18.69	16.97	PASS
N14	PC3	30	10	M	CP-64QAM	Inner_1RB_Left	1@1	18.62	16.9	PASS
N14	PC3	30	10	H	CP-64QAM	Inner_1RB_Left	1@1	18.67	16.95	PASS
N14	PC3	30	10	L	CP-64QAM	Inner_1RB_Right	1@22	18.51	16.79	PASS
N14	PC3	30	10	M	CP-64QAM	Inner_1RB_Right	1@22	18.42	16.7	PASS
N14	PC3	30	10	H	CP-64QAM	Inner_1RB_Right	1@22	18.54	16.82	PASS
N14	PC3	30	10	L	CP-64QAM	Inner_Full	12@6	18.52	16.8	PASS
N14	PC3	30	10	M	CP-64QAM	Inner_Full	12@6	18.47	16.75	PASS
N14	PC3	30	10	H	CP-64QAM	Inner_Full	12@6	18.49	16.77	PASS
N14	PC3	30	10	L	CP-256QAM	Inner_1RB_Left	1@1	15.77	14.05	PASS
N14	PC3	30	10	M	CP-256QAM	Inner_1RB_Left	1@1	15.8	14.08	PASS
N14	PC3	30	10	H	CP-256QAM	Inner_1RB_Left	1@1	15.75	14.03	PASS
N14	PC3	30	10	L	CP-256QAM	Inner_1RB_Right	1@22	15.53	13.81	PASS
N14	PC3	30	10	M	CP-256QAM	Inner_1RB_Right	1@22	15.55	13.83	PASS
N14	PC3	30	10	H	CP-256QAM	Inner_1RB_Right	1@22	15.52	13.8	PASS
N14	PC3	30	10	L	CP-256QAM	Inner_Full	12@6	15.67	13.95	PASS
N14	PC3	30	10	M	CP-256QAM	Inner_Full	12@6	15.67	13.95	PASS
N14	PC3	30	10	H	CP-256QAM	Inner_Full	12@6	15.65	13.93	PASS

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6.3. EMISSION LIMIT

Specifications:	2.1053/90.543(e)/90.543(f)
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§ 90.543 Emission limitations:

(e) For operations in the 758-768 MHz and the 788-798 MHz bands, the power of any emission outside the 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, in accordance with the following:

(1) On all frequencies between 769-775 MHz and 799-805 MHz, by a factor not less than $76 + 10 \log (P)$ dB in a 6.25 kHz band segment, for base and fixed stations.

(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.

(4) Compliance with the provisions of paragraphs (e)(1) and (2) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.

(5) Compliance with the provisions of paragraph (e)(3) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of 30 kHz may be employed.

(f) 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.

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(e)/90.543(f).

The spectrum is scanned with the mobile station transmitting at carrier frequencies that pertain to low, mid and high channels of NR Band.

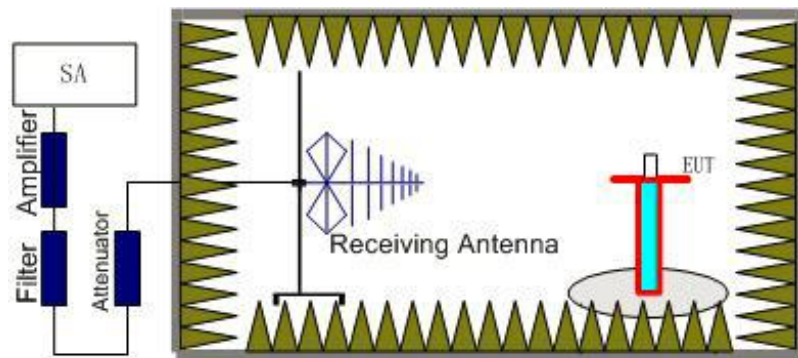
The procedure of radiated spurious emissions is as follows

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

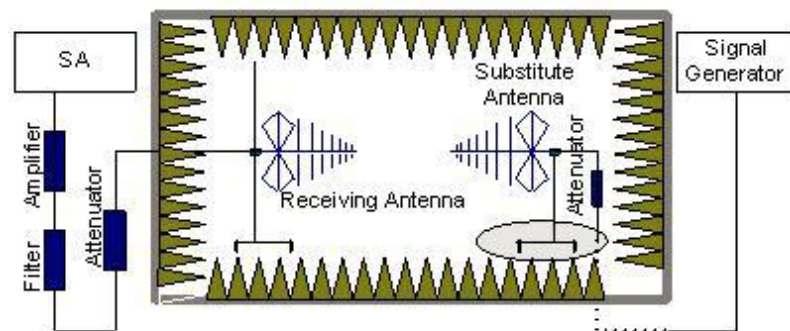
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emissions were maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna polarization. The radiated emission measurements of all non-harmonic and harmonics of the transmit frequency through the 10th harmonic were 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.

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:

$$\text{Power(EIRP)} = \text{PMea} - \text{Pcl} + \text{Ga}$$

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, $\text{ERP} = \text{EIRP} - 2.15\text{dBi}$

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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
n14	5	Inner_Full RB	DFT-s-OFDM QPSK	Low	30MHz~20GHz	PASS
				Middle	30MHz~20GHz	PASS
				High	30MHz~20GHz	PASS

RSE-SA n14-L

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Peak ERP (dBm)	Limit(dBm)	Polarization
1575.2	-54.26	4.2	5.3	-53.16	-40	H
2237.4	-46.69	5.1	5.1	-46.69	-13	V
2957.8	-47.06	5.8	6.7	-46.16	-13	V
3697.0	-45.24	6.6	7.9	-43.94	-13	V
4693.6	-42.78	7.5	9.0	-41.28	-13	V
5501.1	-42.62	8.2	9.8	-41.02	-13	H

RSE-SA n14-M

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Peak ERP (dBm)	Limit(dBm)	Polarization
1696.1	-51.06	4.5	4.7	-50.86	-40	V
2478.2	-46.52	5.4	5.6	-46.32	-13	V
3221.8	-45.1	6.1	6.9	-44.3	-13	V
4105.8	-45.65	7.0	8.6	-44.05	-13	V
4945.0	-42.74	7.7	9.6	-40.84	-13	H
5738.0	-42.64	8.5	10.2	-40.94	-13	V

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RSE-SA n14-H

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Peak ERP (dBm)	Limit(dBm)	Polarization
1645.7	-52.13	4.2	4.7	-51.63	-40	V
2563.8	-47.04	5.4	5.6	-46.84	-13	V
3225.4	-44.76	6.1	6.9	-43.96	-13	H
4092.3	-44.82	7.0	8.6	-43.22	-13	V
5018.9	-42.79	7.8	9.6	-40.99	-13	H
5962.7	-42.09	8.5	10.2	-40.39	-13	H

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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