



TEST REPORT

REPORT NUMBER: 24B02W000003-001

ON

Type of Equipment: Smart POS system

Type of Designation: T6F10

Brand Name: SUNMI

Manufacturer: Shanghai Sunmi Technology Co.,Ltd.

FCC ID: 2AH25T6F10

ACCORDING TO
FCC Part 2, FCC Part 90
ANSI C63.26

Chongqing Academy of Information and Communications Technology

Month date, year
January 31, 2024

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.: 24B02W000003-001

Revision Version

Report Number	Revision	Date
24B02W000003-001	00	2024-01-31

Chongqing Academy of Information and Communication Technology

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Tel: 0086-23-88069965

FAX:0086-23-88608777

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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:	2024-01-25
Testing End Date:	2024-01-27

1.4. Signature



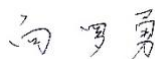
2024-01-31

Junxin Dong
(Prepared this test report)

Date

2024-01-31

Lili Wang
(Reviewed this test report)

Date

2024-01-31

Luoyong Xiang
Director of the laboratory
(Approved this test report)

Date

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2. Client Information

2.1. Applicant Information

Company Name:	Shanghai Sunmi Technology Co.,Ltd.
Address /Post:	Room 505, No.388, Song Hu Road, Yang Pu District, Shanghai, China
City:	Shanghai
Country:	China
Telephone:	18826519551
Fax:	N/A
Email:	chenxuanfei@sunmi.com
Contact Person:	chenxuanfei

2.2. Manufacturer Information

Company Name:	Shanghai Sunmi Technology Co.,Ltd.
Address /Post:	Room 505, No.388, Song Hu Road, Yang Pu District, Shanghai, China
City:	Shanghai
Country:	China
Telephone:	18826519551
Fax:	N/A
Email:	chenxuanfei@sunmi.com
Contact Person:	chenxuanfei

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

3.1. About EUT

EUT Description	Smart POS system
Model name	T6F10
Brand name	SUNMI
GSM Frequency Band	GSM850/GSM900/DCS1800/PCS1900
WCDMA Frequency Band	WCDMA Band I/II/IV/V/VI/VIII/XIX
LTE Frequency Band	LTE Band 1/2/3/4/5/7/8/18/19/20/26/28/34/38/39/40/41
Type of LTE modulation	QPSK/16QAM
Power Class 2	N/A
Power Class 3	LTE Band 1/2/3/4/5/7/8/18/19/20/26/28/34/38/39/40/41
Extreme Temperature	-10/+50°C
Nominal Voltage	7.7V
Extreme High Voltage	8.8V
Extreme Low Voltage	6.0V
Power Rating	DC 7.7V form battery, DC 5V form adapter

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
24B02W000003#S1	SN:P305D3BP10020	V1.0(LA+EU)	V3.0.0	2024-01-24
24B02W000003#S2	SN:P305D3BP10023	V1.0(LA+EU)	V3.0.0	2024-01-24

*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	26	814-824	859-869	--

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Band	BW (MHz)	Low Channel	Low Freq. (MHz)	Mid Channel	Mid Freq. (MHz)	High Channel	High Freq. (MHz)
Band 26 (814-824MHz)	1.4	26697	814.7	23890	819	23933	823.3
	3	23855	815.5	23890	819	23925	822.5
	5	23865	816.5	23890	819	23915	821.5
	10	/	/	23890	819	/	/

No.	Maximum of Antenna Gain	Data
1	LTE band 26	-1.63 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.

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
24B02W000003#AE1	RF Cable	N/A	N/A
24B02W000003#CD01	Adapter	TPA-141A050200UU01	N/A
24B02W000003#CH02	Adapter	UC13US	N/A
24B02W000003#CI02	Adapter	TPA-23A050200UU01	N/A
24B02W000003#UA09	USB Cable	N/A	N/A
24B02W000003#BA12	Battery	HPPA	ICON ENERGY SYSTEM (SHENZHEN) CO., LTD.
24B02W000003#BB07	Battery	HPPA	Guangdong Highpower New Energy TechnologyCo., Ltd.

NOTE1: AE ID is the internal identification code of the laboratory.

NOTE2: By verifying that BA12+CI02 is the worst battery and adapter combination, this battery and adapter are used in all tests.

*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 90	REGULATIONS GOVERNING LICENSING AND USE OF FREQUENCIES IN THE 806–824, 851–869, 896–901, AND 935–940 MHZ BANDS	--
ANSI C63.26-2015	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.		

5. Test Equipments Utilized

5.1. RF Test System

No.	Equipment	Model	SN	HW Version	SW Version	Manufacturer	Cal. Interval	Cal.Due Date
1	Spectrum analyzer	FSQ 26	201137/026	--	--	R&S	1 Year	2024-06-28
2	Spectrum analyzer	FSW26	104280	--	--	R&S	1 Year	2024-06-28
3	DC Power Supply	62015L-60-6	L02000001587	--	--	Chroma	1 Year	2024-06-28
4	Universal Radio Communication Tester	CMW500	152395	--	--	R&S	1 Year	2024-06-28

5.2. RSE Test System

No.	Equipment	Model	SN	HW Version	SW Version	Manufacturer	Cal. Interval	Cal.Due Date
1	EMI Test Receiver	ESU40	100307	--	--	R&S	1 Year	2024-06-28
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	2024-09-06
5	Horn antenna	DATE 1012	LM5945	--	--	ETS	2 Year	2024-09-06
6	Amplifier1	SCU-08F1	8320027	--	--	R&S	1 Year	2024-06-28
7	Amplifier2	SCU-18F	180093	--	--	R&S	1 Year	2024-06-28

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8	Spectrum analyzer	FSQ 26	201137/02 6	--	--	R&S	1 Year	2024-06-28
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5.3. Climate Chamber

No.	Name	Type	SN	HW Version	SW Version	Manufacture	Cal. Interval	Cal.Due Date
1	Climate chamber	VT4002	518602 722023 003	--	--	KQSN	1 Year	2024-06-28

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	3 Year	2024-09-22
2	Anechoic Chamber	SAC 10	--	--	--	TDK	3 Year	2024-08-26

5.5. Test software

No.	Name	version	SN	Manufacture
1	EMC32	V 10.20.01	--	R&S
2	T-RFS500	V2.0	--	Manufacturer:Beijing Zhiwang Xince Technology Co., Ltd.

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
2.1046/90.635(b)	Output Power and EIRP/ERP	PASS
2.1053/90.691	Emission Limit	PASS
2.1055/90.213(a)	Frequency Stability	PASS
2.1049	Occupied Bandwidth	PASS
90.209 (b)	26dB Emission Bandwidth	PASS
2.1051/90.691	Band Edge Compliance	PASS
2.1051/90.691	Conducted Spurious Emission	PASS

Note:

The T6F10, manufactured by Shanghai Sunmi Technology Co.,Ltd. is a new product for testing. There are two configurations S1&S2(Mainly Supply) and S3&S4(Secondary Supply) in this project. We mainly tested the S1&S2(Mainly Supply), and the S3&S4(Secondary Supply) tested the worst mode RSE of the mainly supply, and recorded the test results in the report.

The description of the differences between S1&S2(Mainly Supply) and S3&S4(Secondary Supply) are as follows:

Model Difference	T6F10 (High Configuration) S1&S2(Mainly Supply)	T6F10 (Basic Configuration) S3&S4(Secondary Supply)
Scanner	Yes	No
LCD (Just different manufacturers)	SHENZHEN DJN PHOTOELECTRIC TECHNOLOGY CO., LTD	CPT Technology (Group) Co.,Ltd
DDR	It's just that the manufacturer and memory are different	
EMMC	It's just that the manufacturer and memory are different	

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6.2. Output Power and EIRP/ERP

Specifications:	FCC Part 2.1046/90.635(b)
DUT Serial Number:	24B02W000003#S2
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 §90.635(b) The maximum output power of the transmitter for mobile stations is 100 watts (20 dBw).

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 Rhode & Schwarz base station CMW500.

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 Rhode & Schwarz Digital Radio.
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	0.62dB (k=2)
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6.2.5. Test Setup



6.2.6. Test result

Band	Channel	Band Width	RB size/offset	Frequency (MHz)	Modulation	Power (dBm)	ERP (dBm)
FDD26(PART 90)	Low	1.4	OneRB_high	814.7	QPSK	22.2	18.42
FDD26(PART 90)	Low	1.4	OneRB_high	814.7	Q16	21.38	17.6
FDD26(PART 90)	Low	1.4	OneRB_low	814.7	QPSK	22.18	18.4
FDD26(PART 90)	Low	1.4	OneRB_low	814.7	Q16	21.34	17.56
FDD26(PART 90)	Low	1.4	OneRB_middle	814.7	QPSK	22.38	18.6
FDD26(PART 90)	Low	1.4	OneRB_middle	814.7	Q16	21.51	17.73
FDD26(PART 90)	Low	1.4	HalfRB_low	814.7	QPSK	22.28	18.5
FDD26(PART 90)	Low	1.4	HalfRB_low	814.7	Q16	21.22	17.44
FDD26(PART 90)	Low	1.4	HalfRB_middle	814.7	QPSK	22.28	18.5
FDD26(PART 90)	Low	1.4	HalfRB_middle	814.7	Q16	21.21	17.43
FDD26(PART 90)	Low	1.4	HalfRB_high	814.7	QPSK	22.29	18.51
FDD26(PART 90)	Low	1.4	HalfRB_high	814.7	Q16	21.28	17.5
FDD26(PART 90)	Low	1.4	fullRB	814.7	QPSK	21.26	17.48
FDD26(PART 90)	Low	1.4	fullRB	814.7	Q16	20.28	16.5
FDD26(PART 90)	Low	3	OneRB_high	815.5	QPSK	22.23	18.45
FDD26(PART 90)	Low	3	OneRB_high	815.5	Q16	21.43	17.65
FDD26(PART 90)	Low	3	OneRB_low	815.5	QPSK	22.2	18.42
FDD26(PART 90)	Low	3	OneRB_low	815.5	Q16	21.38	17.6
FDD26(PART 90)	Low	3	OneRB_middle	815.5	QPSK	22.29	18.51
FDD26(PART 90)	Low	3	OneRB_middle	815.5	Q16	21.48	17.7
FDD26(PART 90)	Low	3	HalfRB_low	815.5	QPSK	21.25	17.47
FDD26(PART 90)	Low	3	HalfRB_low	815.5	Q16	20.23	16.45
FDD26(PART 90)	Low	3	HalfRB_middle	815.5	QPSK	21.24	17.46
FDD26(PART 90)	Low	3	HalfRB_middle	815.5	Q16	20.22	16.44

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FDD26(PART 90)	Low	3	HalfRB_high	815.5	QPSK	21.26	17.48
FDD26(PART 90)	Low	3	HalfRB_high	815.5	Q16	20.27	16.49
FDD26(PART 90)	Low	3	fullRB	815.5	QPSK	21.25	17.47
FDD26(PART 90)	Low	3	fullRB	815.5	Q16	20.24	16.46
FDD26(PART 90)	Low	5	OneRB_high	816.5	QPSK	22.21	18.43
FDD26(PART 90)	Low	5	OneRB_high	816.5	Q16	21.46	17.68
FDD26(PART 90)	Low	5	OneRB_low	816.5	QPSK	22.11	18.33
FDD26(PART 90)	Low	5	OneRB_low	816.5	Q16	21.36	17.58
FDD26(PART 90)	Low	5	OneRB_middle	816.5	QPSK	22.3	18.52
FDD26(PART 90)	Low	5	OneRB_middle	816.5	Q16	21.54	17.76
FDD26(PART 90)	Low	5	HalfRB_low	816.5	QPSK	21.21	17.43
FDD26(PART 90)	Low	5	HalfRB_low	816.5	Q16	20.25	16.47
FDD26(PART 90)	Low	5	HalfRB_middle	816.5	QPSK	21.18	17.4
FDD26(PART 90)	Low	5	HalfRB_middle	816.5	Q16	20.24	16.46
FDD26(PART 90)	Low	5	HalfRB_high	816.5	QPSK	21.27	17.49
FDD26(PART 90)	Low	5	HalfRB_high	816.5	Q16	20.34	16.56
FDD26(PART 90)	Low	5	fullRB	816.5	QPSK	21.26	17.48
FDD26(PART 90)	Low	5	fullRB	816.5	Q16	20.26	16.48
FDD26(PART 90)	Mid	1.4	OneRB_high	819	QPSK	22.22	18.44
FDD26(PART 90)	Mid	1.4	OneRB_high	819	Q16	21.27	17.49
FDD26(PART 90)	Mid	1.4	OneRB_low	819	QPSK	22.21	18.43
FDD26(PART 90)	Mid	1.4	OneRB_low	819	Q16	21.24	17.46
FDD26(PART 90)	Mid	1.4	OneRB_middle	819	QPSK	22.38	18.6
FDD26(PART 90)	Mid	1.4	OneRB_middle	819	Q16	21.42	17.64
FDD26(PART 90)	Mid	1.4	HalfRB_low	819	QPSK	22.34	18.56
FDD26(PART 90)	Mid	1.4	HalfRB_low	819	Q16	21.53	17.75
FDD26(PART 90)	Mid	1.4	HalfRB_middle	819	QPSK	22.34	18.56
FDD26(PART 90)	Mid	1.4	HalfRB_middle	819	Q16	21.53	17.75
FDD26(PART 90)	Mid	1.4	HalfRB_high	819	QPSK	22.33	18.55
FDD26(PART 90)	Mid	1.4	HalfRB_high	819	Q16	21.56	17.78
FDD26(PART 90)	Mid	1.4	fullRB	819	QPSK	21.28	17.5
FDD26(PART 90)	Mid	1.4	fullRB	819	Q16	20.32	16.54
FDD26(PART 90)	Mid	3	OneRB_high	819	QPSK	22.21	18.43
FDD26(PART 90)	Mid	3	OneRB_high	819	Q16	21.78	18
FDD26(PART 90)	Mid	3	OneRB_low	819	QPSK	22.28	18.5
FDD26(PART 90)	Mid	3	OneRB_low	819	Q16	21.85	18.07

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FDD26(PART 90)	Mid	3	OneRB_middle	819	QPSK	22.27	18.49
FDD26(PART 90)	Mid	3	OneRB_middle	819	Q16	21.81	18.03
FDD26(PART 90)	Mid	3	HalfRB_low	819	QPSK	21.28	17.5
FDD26(PART 90)	Mid	3	HalfRB_low	819	Q16	20.43	16.65
FDD26(PART 90)	Mid	3	HalfRB_middle	819	QPSK	21.26	17.48
FDD26(PART 90)	Mid	3	HalfRB_middle	819	Q16	20.44	16.66
FDD26(PART 90)	Mid	3	HalfRB_high	819	QPSK	21.3	17.52
FDD26(PART 90)	Mid	3	HalfRB_high	819	Q16	20.46	16.68
FDD26(PART 90)	Mid	3	fullRB	819	QPSK	21.28	17.5
FDD26(PART 90)	Mid	3	fullRB	819	Q16	20.36	16.58
FDD26(PART 90)	Mid	5	OneRB_high	819	QPSK	22.19	18.41
FDD26(PART 90)	Mid	5	OneRB_high	819	Q16	21.06	17.28
FDD26(PART 90)	Mid	5	OneRB_low	819	QPSK	22.15	18.37
FDD26(PART 90)	Mid	5	OneRB_low	819	Q16	21.04	17.26
FDD26(PART 90)	Mid	5	OneRB_middle	819	QPSK	22.3	18.52
FDD26(PART 90)	Mid	5	OneRB_middle	819	Q16	21.19	17.41
FDD26(PART 90)	Mid	5	HalfRB_low	819	QPSK	21.21	17.43
FDD26(PART 90)	Mid	5	HalfRB_low	819	Q16	20.22	16.44
FDD26(PART 90)	Mid	5	HalfRB_middle	819	QPSK	21.22	17.44
FDD26(PART 90)	Mid	5	HalfRB_middle	819	Q16	20.21	16.43
FDD26(PART 90)	Mid	5	HalfRB_high	819	QPSK	21.32	17.54
FDD26(PART 90)	Mid	5	HalfRB_high	819	Q16	20.29	16.51
FDD26(PART 90)	Mid	5	fullRB	819	QPSK	21.25	17.47
FDD26(PART 90)	Mid	5	fullRB	819	Q16	20.32	16.54
FDD26(PART 90)	Mid	10	OneRB_high	819	QPSK	22.24	18.46
FDD26(PART 90)	Mid	10	OneRB_high	819	Q16	21.78	18
FDD26(PART 90)	Mid	10	OneRB_low	819	QPSK	22.2	18.42
FDD26(PART 90)	Mid	10	OneRB_low	819	Q16	21.71	17.93
FDD26(PART 90)	Mid	10	OneRB_middle	819	QPSK	22.36	18.58
FDD26(PART 90)	Mid	10	OneRB_middle	819	Q16	21.94	18.16
FDD26(PART 90)	Mid	10	HalfRB_low	819	QPSK	21.23	17.45
FDD26(PART 90)	Mid	10	HalfRB_low	819	Q16	20.29	16.51
FDD26(PART 90)	Mid	10	HalfRB_middle	819	QPSK	21.25	17.47
FDD26(PART 90)	Mid	10	HalfRB_middle	819	Q16	20.29	16.51
FDD26(PART 90)	Mid	10	HalfRB_high	819	QPSK	21.34	17.56
FDD26(PART 90)	Mid	10	HalfRB_high	819	Q16	20.42	16.64

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FDD26(PART 90)	Mid	10	fullRB	819	QPSK	21.25	17.47
FDD26(PART 90)	Mid	10	fullRB	819	Q16	20.29	16.51
FDD26(PART 90)	High	1.4	OneRB_high	823.3	QPSK	22.21	18.43
FDD26(PART 90)	High	1.4	OneRB_high	823.3	Q16	21.38	17.6
FDD26(PART 90)	High	1.4	OneRB_low	823.3	QPSK	22.22	18.44
FDD26(PART 90)	High	1.4	OneRB_low	823.3	Q16	21.41	17.63
FDD26(PART 90)	High	1.4	OneRB_middle	823.3	QPSK	22.37	18.59
FDD26(PART 90)	High	1.4	OneRB_middle	823.3	Q16	21.56	17.78
FDD26(PART 90)	High	1.4	HalfRB_low	823.3	QPSK	22.32	18.54
FDD26(PART 90)	High	1.4	HalfRB_low	823.3	Q16	21.26	17.48
FDD26(PART 90)	High	1.4	HalfRB_middle	823.3	QPSK	22.34	18.56
FDD26(PART 90)	High	1.4	HalfRB_middle	823.3	Q16	21.28	17.5
FDD26(PART 90)	High	1.4	HalfRB_high	823.3	QPSK	22.32	18.54
FDD26(PART 90)	High	1.4	HalfRB_high	823.3	Q16	21.28	17.5
FDD26(PART 90)	High	1.4	fullRB	823.3	QPSK	21.3	17.52
FDD26(PART 90)	High	1.4	fullRB	823.3	Q16	20.31	16.53
FDD26(PART 90)	High	3	OneRB_high	822.5	QPSK	22.24	18.46
FDD26(PART 90)	High	3	OneRB_high	822.5	Q16	21.41	17.63
FDD26(PART 90)	High	3	OneRB_low	822.5	QPSK	22.23	18.45
FDD26(PART 90)	High	3	OneRB_low	822.5	Q16	21.44	17.66
FDD26(PART 90)	High	3	OneRB_middle	822.5	QPSK	22.23	18.45
FDD26(PART 90)	High	3	OneRB_middle	822.5	Q16	21.43	17.65
FDD26(PART 90)	High	3	HalfRB_low	822.5	QPSK	21.27	17.49
FDD26(PART 90)	High	3	HalfRB_low	822.5	Q16	20.24	16.46
FDD26(PART 90)	High	3	HalfRB_middle	822.5	QPSK	21.27	17.49
FDD26(PART 90)	High	3	HalfRB_middle	822.5	Q16	20.27	16.49
FDD26(PART 90)	High	3	HalfRB_high	822.5	QPSK	21.26	17.48
FDD26(PART 90)	High	3	HalfRB_high	822.5	Q16	20.24	16.46
FDD26(PART 90)	High	3	fullRB	822.5	QPSK	21.26	17.48
FDD26(PART 90)	High	3	fullRB	822.5	Q16	20.22	16.44
FDD26(PART 90)	High	5	OneRB_high	821.5	QPSK	22.18	18.4
FDD26(PART 90)	High	5	OneRB_high	821.5	Q16	21.4	17.62
FDD26(PART 90)	High	5	OneRB_low	821.5	QPSK	22.17	18.39
FDD26(PART 90)	High	5	OneRB_low	821.5	Q16	21.46	17.68
FDD26(PART 90)	High	5	OneRB_middle	821.5	QPSK	22.31	18.53
FDD26(PART 90)	High	5	OneRB_middle	821.5	Q16	21.55	17.77

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FDD26(PART 90)	High	5	HalfRB_low	821.5	QPSK	21.25	17.47
FDD26(PART 90)	High	5	HalfRB_low	821.5	Q16	20.3	16.52
FDD26(PART 90)	High	5	HalfRB_middle	821.5	QPSK	21.23	17.45
FDD26(PART 90)	High	5	HalfRB_middle	821.5	Q16	20.29	16.51
FDD26(PART 90)	High	5	HalfRB_high	821.5	QPSK	21.24	17.46
FDD26(PART 90)	High	5	HalfRB_high	821.5	Q16	20.28	16.5
FDD26(PART 90)	High	5	fullRB	821.5	QPSK	21.25	17.47
FDD26(PART 90)	High	5	fullRB	821.5	Q16	20.28	16.5

6.3. 99% Occupied Bandwidth

Specifications:	FCC Part 2.1049
DUT Serial Number:	24B02W000003#S2
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	Pass

6.3.1. Summary

Similar to conducted emissions; occupied bandwidth measurements are only provided for selected frequencies in order to reduce the amount of submitted data. Data were taken at the mid frequencies of FDD26 (814-824) .

6.3.2. Method of Measurement

The EUT output RF connector was connected with a short cable to the signal analyzer.

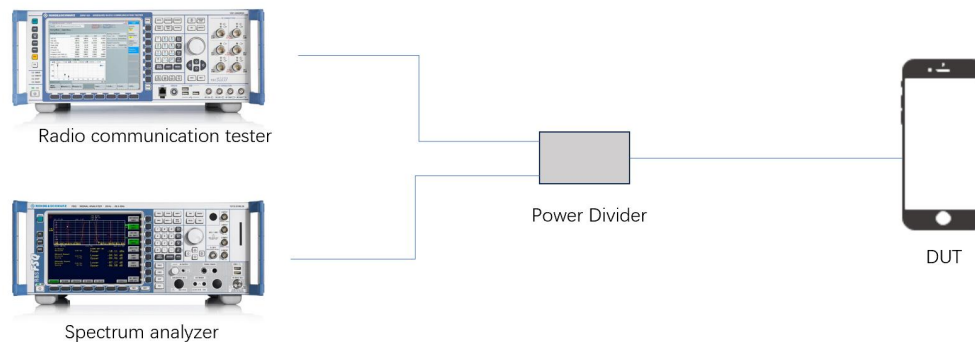
RBW was set to about 1% of emission BW, VBW $\geq$ 3 times RBW,.

99% bandwidth were measured, the occupied bandwidth is delta frequency between the two points where the display line intersects the signal trace.

6.3.3. Measurement Uncertainty

Expanded Uncertainty	500 kHz (k=2)
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6.3.4. Test Setup



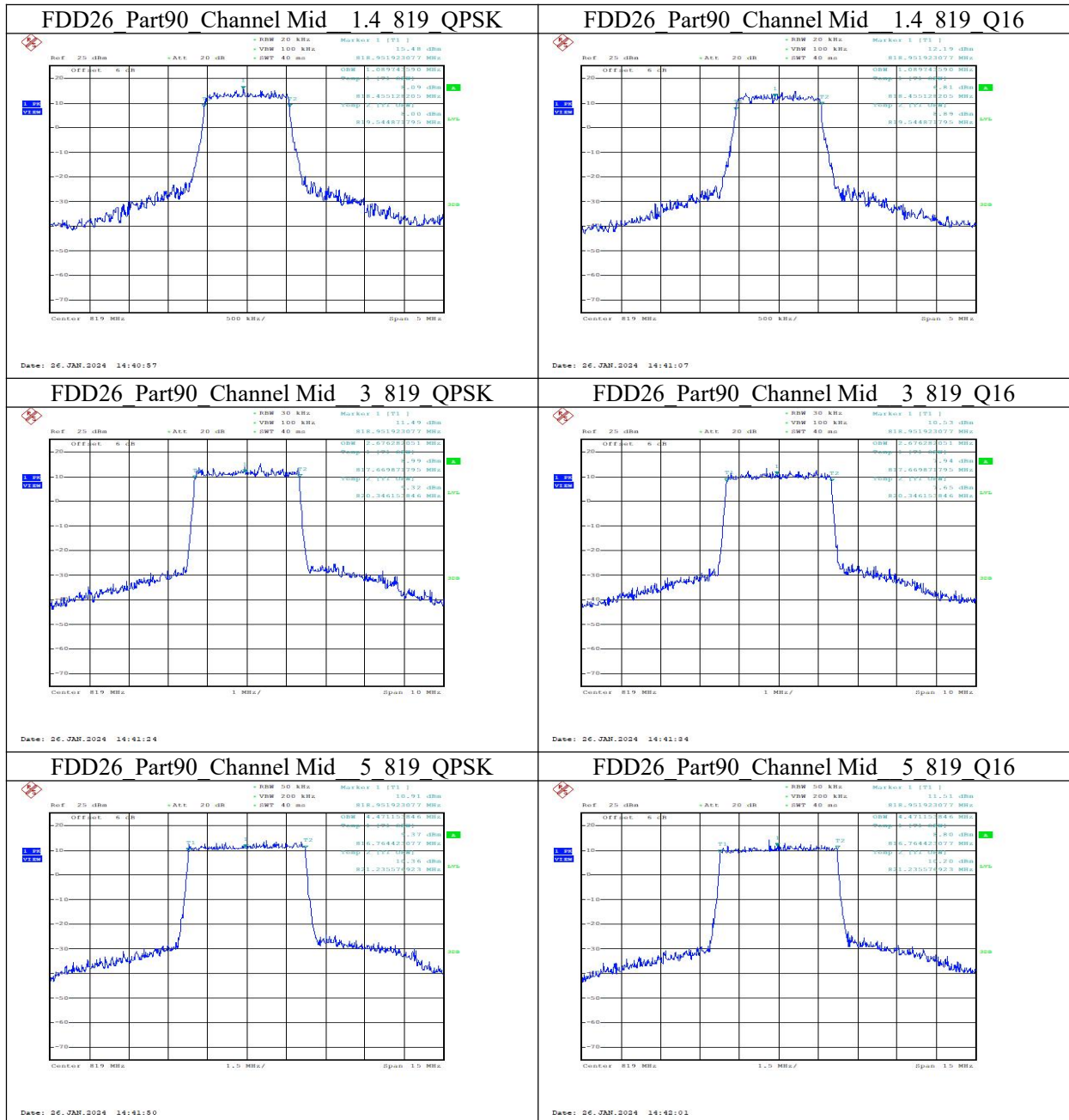
6.3.5. Test result

Band	Channel	BandWidth(MHz)	Frequency(MHz)	QPSK(MHz)	Q16(MHz)
FDD26_Part90	Mid	1.4	819	1.09	1.09

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FDD26_Part90	Mid	3	819	2.68	2.68
FDD26_Part90	Mid	5	819	4.47	4.47
FDD26_Part90	Mid	10	819	8.99	8.99

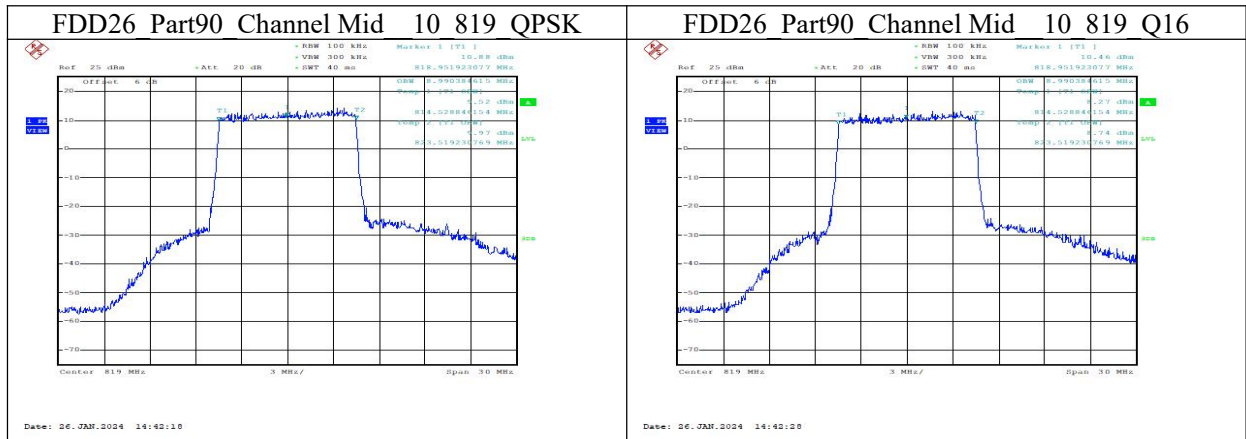


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6.4. 26dB Emission Bandwidth

Specifications:	FCC Part 2.1049
DUT Serial Number:	24B02W000003#S2
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	Pass

6.4.1. Summary

Similar to conducted emissions; occupied bandwidth measurements are only provided for selected frequencies in order to reduce the amount of submitted data. Data were taken at the mid frequencies of FDD26 (814-824) .

6.4.2. Method of Measurement

The EUT output RF connector was connected with a short cable to the signal analyzer.

RBW was set to about 1% of emission BW, VBW >= 3 times RBW,.

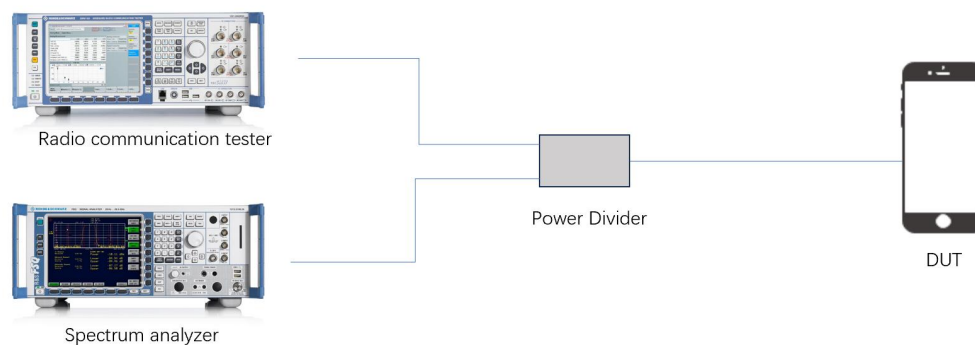
26dB bandwidth were measured, the occupied bandwidth is delta frequency between the two points where the display line intersects the signal trace.

For GSM: signal analyzer setting as: RBW= 3KHz; VBW=10KHz; Span=1MHz.

6.4.3. Measurement Uncertainty

Expanded Uncertainty	500 kHz (k=2)
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6.4.4. Test Setup



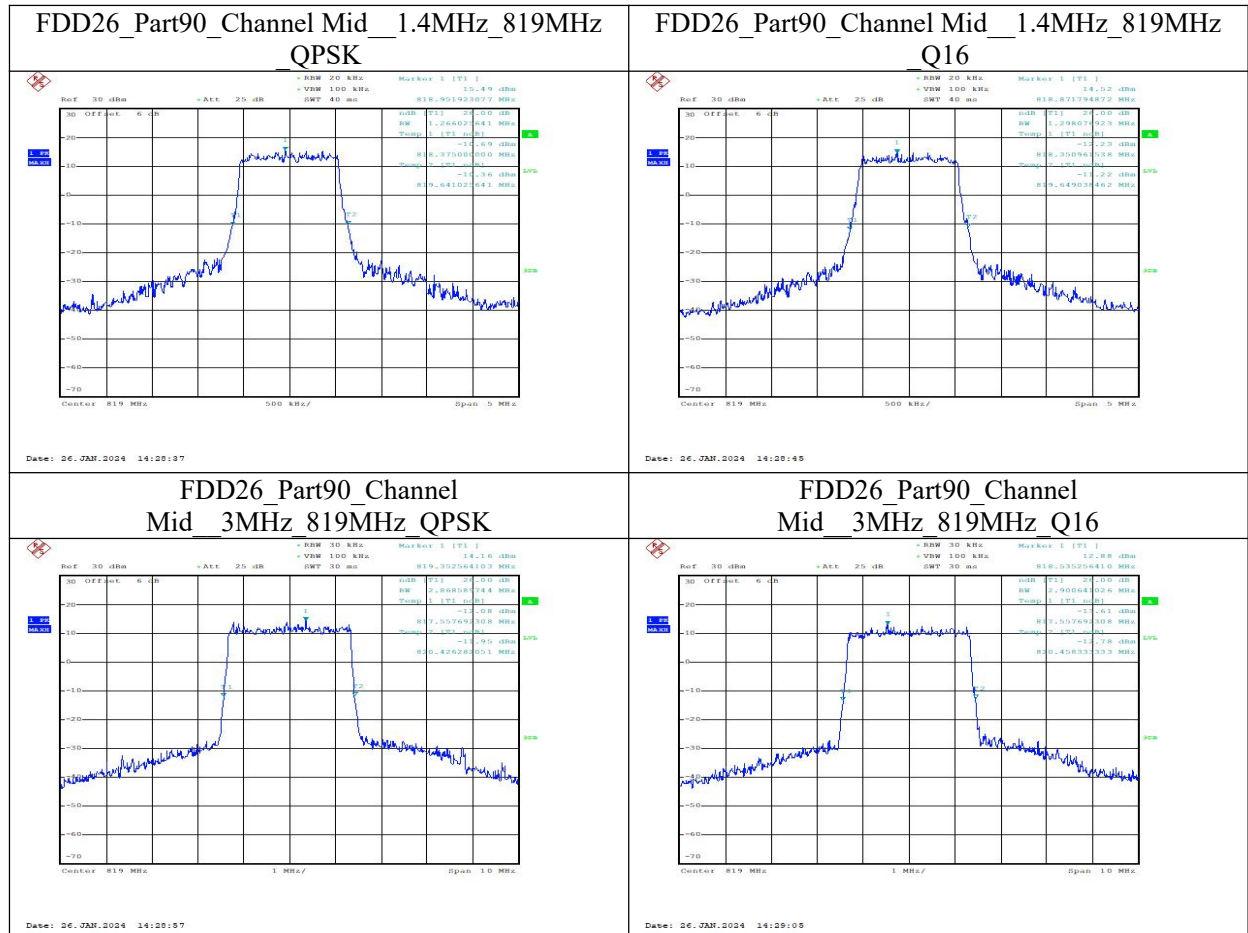
6.4.5. Test result

Band	Channel	BandWidth(MHz)	Frequency(MHz)	QPSK(MHz)	Q16(MHz)
FDD26_Part90	Mid	1.4	819	1.27	1.30

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FDD26_Part90	Mid	3	819	2.87	2.90
FDD26_Part90	Mid	5	819	4.90	4.86
FDD26_Part90	Mid	10	819	9.62	9.52

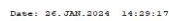


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Date: 26.JAN.2024 14:29:24

Date: 26. JAN. 2024 14:29:37

Date: 26.JAN.2024 14:29:45

6.5. Frequency Stability

Specifications:	FCC Part 2.1055/90.213(a)
DUT Serial Number:	24B02W000003#S2
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	Pass

6.5.1. Measurement Limit

FCC §2.1055 The frequency stability shall be measured with variation of ambient temperature as follows:

- (1) From -30° to $+50^{\circ}$ centigrade for all equipment except that specified in paragraphs (a) (2) and (3) of this section.
- (2) From -20° to $+50^{\circ}$ centigrade for equipment to be licensed for use in the Maritime Services under part 80 of this chapter, except for Class A, B, and S Emergency Position Indicating Radiobeacons (EPIRBS), and equipment to be licensed for use above 952 MHz at operational fixed stations in all services, stations in the Local Television Transmission Service and Point-to-Point Microwave Radio Service under part 21 of this chapter, equipment licensed for use aboard aircraft in the Aviation Services under part 87 of this chapter, and equipment authorized for use in the Family Radio Service under part 95 of this chapter.

6.5.2. Method of Measurement

In order to measure the carrier frequency under the condition of AFC lock, it is necessary to make measurements with the EUT in a “call mode”. This is accomplished with the use of R&S CMW500 DIGITAL RADIO COMMUNICATION TESTER.

1. Measure the carrier frequency at room temperature.
2. Subject the EUT to overnight soak at -30°C .
3. With the EUT, powered via nominal voltage, connected to the CMW500 and in a simulated call on mid channel of LTE Band, measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
4. Repeat the above measurements at 10°C increments from -30°C to $+50^{\circ}\text{C}$. Allow at least 1 1/2 hours at each temperature, unpowered, before making measurements.
5. Re-measure carrier frequency at room temperature with nominal voltage. Vary supply voltage from minimum voltage to maximum voltage, in 0.1 Volt increments re-measuring carrier frequency at each voltage. Pause at nominal voltage for 1 1/2 hours unpowered, to allow any self-heating to stabilize, before continuing.
6. Subject the EUT to overnight soak at $+50^{\circ}\text{C}$.
7. With the EUT, powered via nominal voltage, connected to the CMW500 and in a simulated call on the centre channel, measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
8. Repeat the above measurements at 10°C increments from $+50^{\circ}\text{C}$ to -30°C . Allow at least 1.5 hours at

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each temperature, unpowered, before making measurements.

9. At all temperature levels hold the temperature to $\pm 0.5^{\circ}\text{C}$ during the measurement procedure.

6.5.3. Measurement Uncertainty

Expanded Uncertainty	1.54 Hz (k=2)
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6.5.4. Test Setup



6.5.5. Test results

Only the worst mode data is provided

Temperature	Voltage	Band	Channel	Band Width (MHz)	RBMod e	QPSK (Hz)	16QAM (Hz)	QPSK (ppm)	16QAM (ppm)
Normal	Low	FDD26_Part90	Mid	5	fullRB	-10.443	-15.306	0.013	0.019
Normal	Normal	FDD26_Part90	Mid	5	fullRB	-8.912	-11.115	0.011	0.014
Normal	High	FDD26_Part90	Mid	5	fullRB	-7.453	9.871	0.009	0.012
50	Normal	FDD26_Part90	Mid	5	fullRB	-4.992	-10.657	0.006	0.013
40	Normal	FDD26_Part90	Mid	5	fullRB	-9.041	-9.77	0.011	0.012
30	Normal	FDD26_Part90	Mid	5	fullRB	-10.214	9.313	0.012	0.011
20	Normal	FDD26_Part90	Mid	5	fullRB	-5.722	-13.204	0.007	0.016
10	Normal	FDD26_Part90	Mid	5	fullRB	-4.835	9.756	0.006	0.012
0	Normal	FDD26_Part90	Mid	5	fullRB	-7.753	12.016	0.009	0.015
-10	Normal	FDD26_Part90	Mid	5	fullRB	-11.129	-11.63	0.014	0.014
-20	Normal	FDD26_Part90	Mid	5	fullRB	-9.298	7.567	0.011	0.009
-30	Normal	FDD26_Part90	Mid	5	fullRB	-2.861	-12.832	0.003	0.016

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6.6. Conducted Spurious Emission

Specifications:	FCC Part 2.1051/90.691
DUT Serial Number:	24B02W000003#S2
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	Pass

6.6.1. Measurement Limit

FCC§90.691 Emission mask requirements for EA-based systems.

(a) Out-of-band emission requirement shall apply only to the “outer” channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:

(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \log_{10}(f/6.1)$ decibels or $50 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

6.6.2. Method of Measurement

The following steps outline the procedure used to measure the conducted emissions from the EUT.

1. Determine frequency range for measurements: From CFR 2.1057 the spectrum should be investigated from the lowest radio frequency generated in the equipment up to at least the 10th harmonic of the carrier frequency. For the mobile station equipment tested, this equates to a frequency range of 13 MHz to 9 GHz, data taken from 10 MHz to 25 GHz.
2. Determine EUT transmit frequencies: below outlines the band edge frequencies pertinent to conducted emissions testing.
3. The number of sweep points of spectrum analyzer is set to 30001 which is greater than span/RBW.

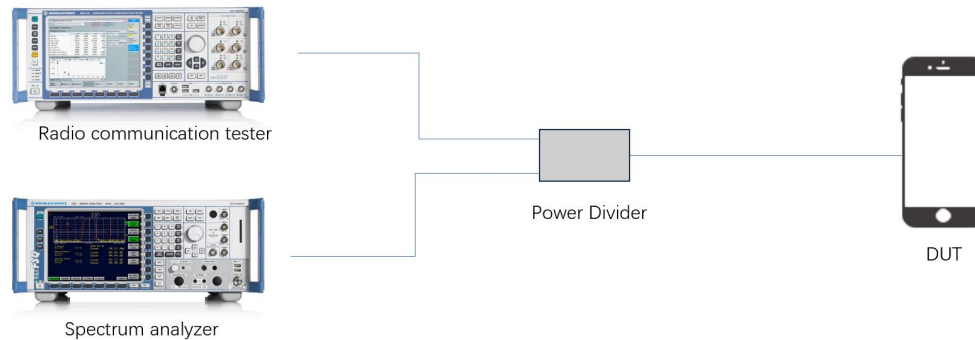
6.6.3. Measurement Uncertainty

Expanded Uncertainty	$9\text{kHz} < f \leq 4\text{GHz}, 0.71 \text{ dB (k=2)}$
	$4\text{GHz} \leq f < 12.75\text{GHz}, 0.74 \text{ dB (k=2)}$
	$12.75\text{GHz} \leq f < 26\text{GHz}, 2.70 \text{ dB (k=2)}$

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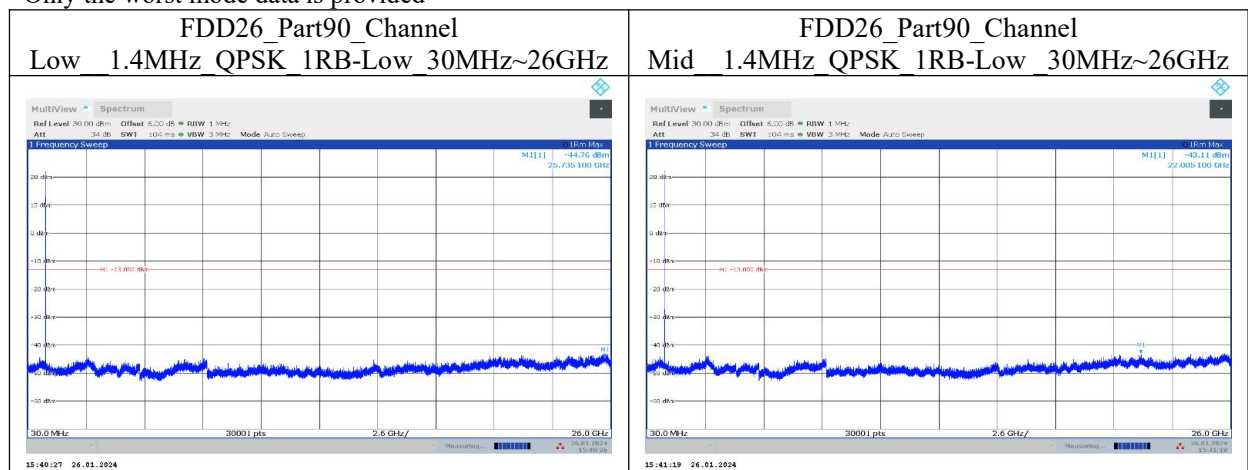
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6.6.4. Test Setup



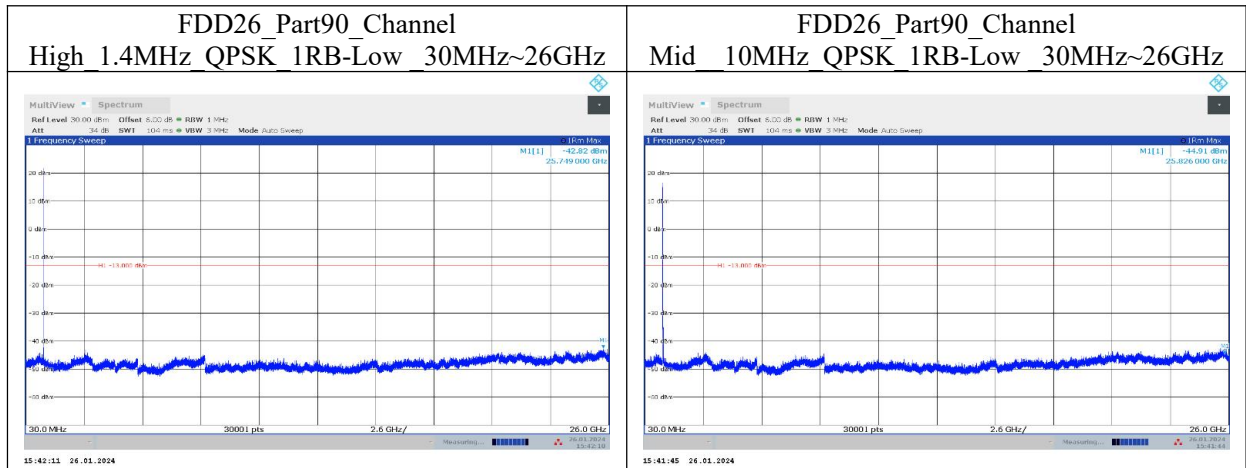
6.6.5. Measurement result

Only the worst mode data is provided



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Note: peak above the limit line is the carrier frequency

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6.7. Band Edge Compliance

Specifications:	FCC Part 2.1051/90.691
DUT Serial Number:	24B02W000003#S2
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	Pass

6.7.1. Measurement Limit

FCC§90.691 Emission mask requirements for EA-based systems.

(a) Out-of-band emission requirement shall apply only to the “outer” channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:

(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \log_{10}(f/6.1)$ decibels or $50 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

6.7.2. Method of Measurement

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 6.0

The transmitter output was connected to a calibrated coaxial cable, attenuator and Spectrum analyzer. the other end of which was connected to a Base Station Simulator, The Base Station Simulator was set to force the EUT to its maximum power setting. The tests were performed at two frequencies (low channel and high channel).in the 1MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of 100kHz or 1% of the emission bandwidth of the fundamental emission of the transmitter may be employed. The EUT emission bandwidth is measured as the width of the signal between two points. Outside of which all emission are attenuated at east 26dB below the transmitter power. The video bandwidth of the spectrum analyzer was set at thrice the resolution bandwidth. Detector Mode was set to RMS.

6.7.3. Measurement Uncertainty

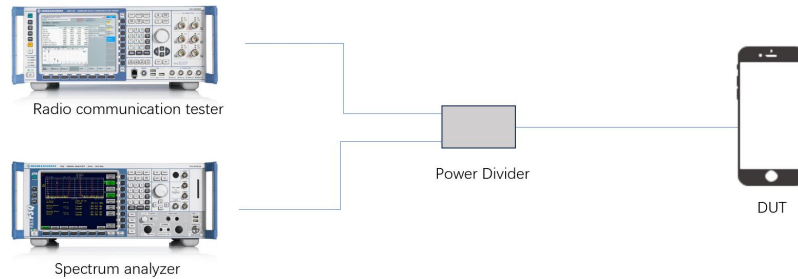
Expanded Uncertainty	$9\text{kHz} < f \leq 4\text{GHz}, 0.71 \text{ dB (k=2)}$
	$4\text{GHz} \leq f < 12.75\text{GHz}, 0.74 \text{ dB (k=2)}$

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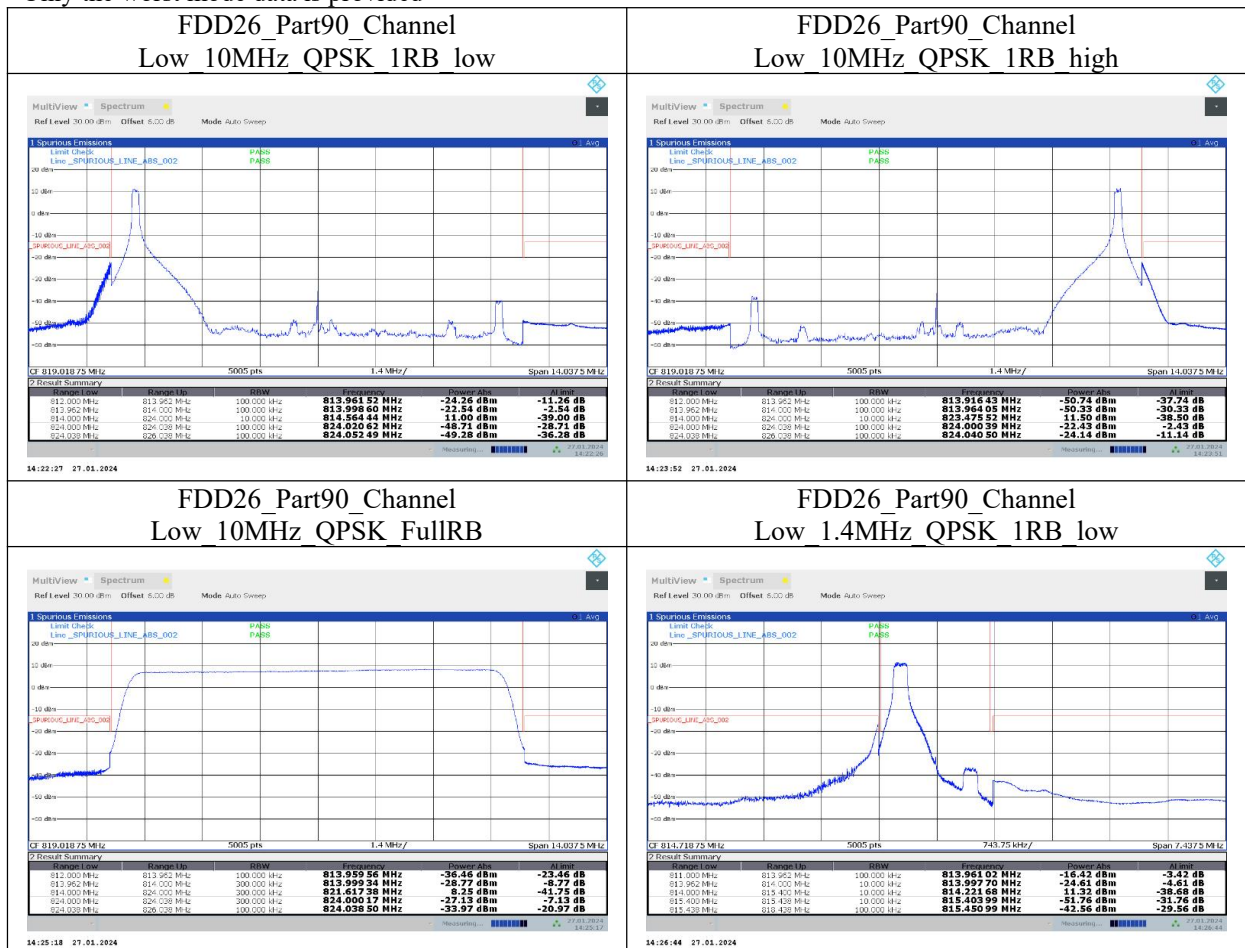
$12.75\text{GHz} \leq f < 26\text{GHz}, 2.70\text{ dB (k=2)}$

6.7.4. Test Setup



6.7.5. Measurement result

Only the worst mode data is provided

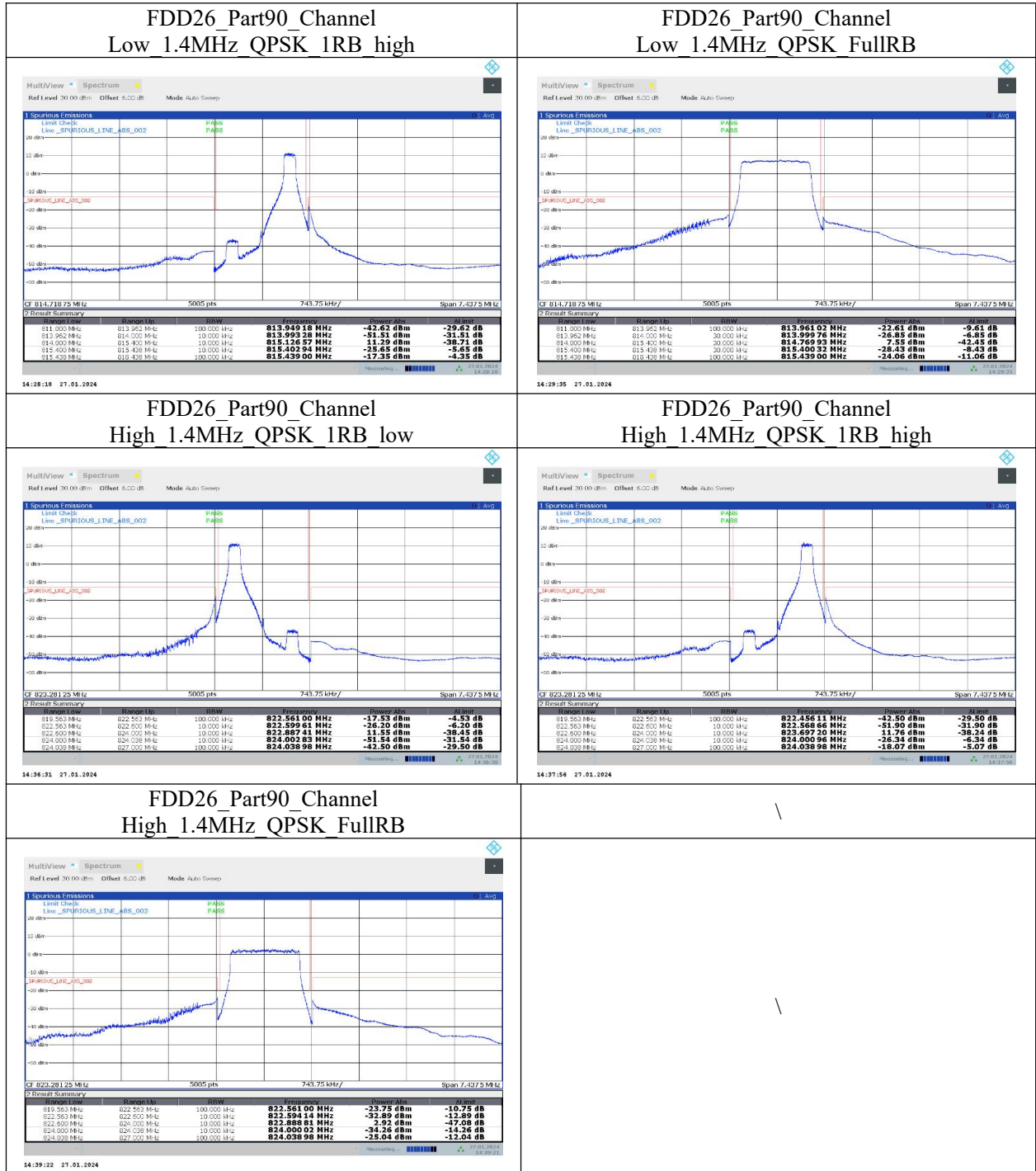


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6.8. EMISSION LIMIT

Specifications:	FCC Part 2.1053/90.691
DUT Serial Number:	24B02W000003#S1
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	Pass

6.8.1. Measurement Limit

FCC§90.691 Emission mask requirements for EA-based systems.

(a) Out-of-band emission requirement shall apply only to the “outer” channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:

(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \log_{10}(f/6.1)$ decibels or $50 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

6.8.2. 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 §90.669

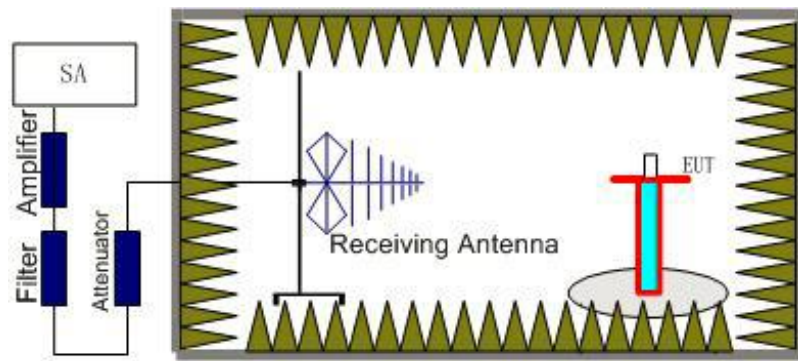
The spectrum is scanned with the mobile station transmitting at carrier frequencies that pertain to low, mid and high channels of LTE Band.

The procedure of radiated spurious emissions is as follows

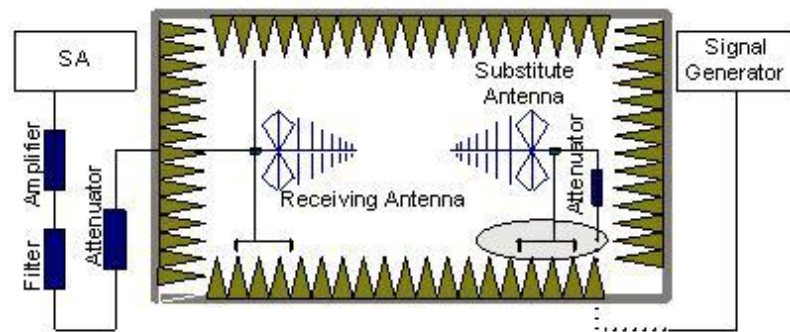
1. EUT was placed on a 1.5 meter high non-conductive stand at a 3 meter test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT for emission measurements. The height of receiving antenna is 1.5m. The test setup refers to figure below. Detected 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 10thharmonic were measured with peak detector.

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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.

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6. ERP can be calculated from EIRP by subtracting the gain of the dipole, $ERP = EIRP - 2.15\text{dBi}$

6.8.3. 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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6.8.4. Measurement Results

Band	BW (MHz)	Low Freq. (MHz)	Mid Freq. (MHz)	High Freq. (MHz)	Result
Band 26 (814-824MHz)	1.4	814.7	819	823.3	PASS
	3	815.5	819	822.5	PASS
	5	816.5	819	821.5	PASS
	10	/	819	/	PASS

Only the worst mode data is provided:

Mainly Supply

RSE-LTE26(814-824MHz)-QPSK-1.4MHz-1RB_Low-Low Channel

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit (dBm)	Margin(dBm)	Polarization
1619.2	-52.81	4.2	5.3	-51.71	-13	38.71	V
2444.2	-38.94	5.3	5.6	-38.64	-13	25.64	H
3184.0	-51.84	6.1	6.9	-51.04	-13	38.04	V
4073.6	-49.95	6.9	8.6	-48.25	-13	35.25	H
4961.6	-52.4	7.7	9.6	-50.5	-13	37.50	H
5695.2	-53.45	8.5	10.2	-51.75	-13	38.75	H

RSE-LTE26(814-824MHz) -QPSK-1.4MHz-1RB_Low-Mid Channel

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit (dBm)	Margin(dBm)	Polarization
1638.3	-50.86	4.2	4.7	-50.36	-13	37.36	V
2456.5	-34.61	5.4	5.6	-34.41	-13	21.41	V
3184.0	-52.53	6.1	6.9	-51.73	-13	38.73	H
4094.8	-51.53	7.0	8.6	-49.93	-13	36.93	V
4834.8	-52.14	7.6	9.0	-50.74	-13	37.74	H
5764.0	-52.85	8.5	10.2	-51.15	-13	38.15	V

RSE-LTE26(814-824MHz) -QPSK-1.4MHz-1RB_Low-High Channel

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit (dBm)	Margin(dBm)	Polarization
1666.3	-50.4	4.5	4.7	-50.2	-13	37.20	V
2470.0	-38.35	5.4	5.6	-38.15	-13	25.15	H
3781.2	-53.34	6.7	7.9	-52.14	-13	39.14	H
4842.8	-52.51	7.6	9.0	-51.11	-13	38.11	H

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5998.0	-51.51	8.6	10.2	-49.91	-13	36.91	V
8232.4	-51.16	10.1	12.4	-48.86	-13	35.86	V

Note: Only worse case is recorded in this report.



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Annex A EUT Photos

See the document "24B02W000003-External Photos".

See the document "24B02W000003-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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