



## **FCC RADIO TEST REPORT**

FCC ID : PKRISGMD2000 Equipment : Wireless Module

Brand Name : Inseego Model Name : MD2000

Applicant : Inseego Corporation

9710 Scranton Road Suite 200, San

**Diego,, CA 92121** 

Manufacturer : Inseego Corporation

9710 Scranton Road Suite 200, San

Diego,, CA 92121

Standard : FCC 47 CFR Part 2, 27

The product was received on Mar. 01, 2022 and testing was performed from Mar. 01, 2022 to Mar. 03, 2022. We, Sporton International Inc. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA-603-E and has been in compliance with the applicable technical standards.

The test results in this variant report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

Sporton International Inc. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)

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Report Template No.: BU5-FGLTE Version 2.4

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Report Version

: 01

## History of this test report

Report No. : FG090125-05

Report No.	Version	Description	Issued Date
FG090125-05	01	Initial issue of report	Mar. 09, 2022

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## **Summary of Test Result**

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Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
	§2.1046	Conducted Output Power	Reporting only	
3.2	§27.50 (j)(3)	Equivalent Isotropic Radiated Power (n77)	Pass	-
3.3	§27.50 (j)(4)	Peak-to-Average Ratio	Reporting only	-
3.4	§2.1049	Occupied Bandwidth	Reporting only	-
3.5	§2.1051 §27.53 (I)(2)	Conducted Band Edge Measurement (n77)	Pass	-
3.6	§2.1051 §27.53 (I)(2)	Conducted Spurious Emission (n77)	Pass	-
3.7	§2.1055 §27.54	Frequency Stability Temperature & Voltage	Pass	-
4.2	§2.1051 §27.53 (I)(2)	Radiated Spurious Emission (n77)	Pass	Under limit 19.73 dB at 15845.000 MHz

**Remark:** This is a variant report by changing SW version and adding 5G NR n77. All the test cases were performed on original report which can be referred to Sporton Report Number FG090125-03.Based on the original report, the test cases were verified.

#### **Declaration of Conformity:**

- The test results (PASS/FAIL) with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
   It's means measurement values may risk exceeding the limit of regulation standards, if measurement
  - It's means measurement values may risk exceeding the limit of regulation standards, if measurement uncertainty is include in test results.
- 2. The measurement uncertainty please refer to this report "Uncertainty of Evaluation".

#### **Comments and Explanations:**

The product specifications of the EUT presented in the report are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: Avis Chuang Report Producer: Amy Chen

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## 1 General Description

## 1.1 Product Feature of Equipment Under Test

WCDMA/LTE/5G NR, Wi-Fi 2.4GHz 802.11b/g/n/ac/ax, Wi-Fi 5GHz 802.11a/n/ac/ax, and GNSS.

	Product Feature
Antenna Type	WWAN: Dipole Antenna

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#### Remark:

- 1. The above EUT's information was declared by manufacturer. Please refer to Comments and Explanations in report summary.
- 2. Inseego provided an external dipole antenna with a gain of 2.5dBi for the sole purpose of supporting radiated testing only with customer provided representative antenna. Module is not equipped with antenna.

### 1.2 Modification of EUT

No modifications are made to the EUT during all test items.

### 1.3 Testing Location

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory			
	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)			
Test Site Location	TEL: +886-3-327-3456			
	FAX: +886-3-328-4978			
Test Site No.	Sporton Site No.			
Test Site No.	TH03-HY			
Test Engineer Ivy Yeh				
Temperature (°C) 21~23				
Relative Humidity (%) 50~58				

Test Site	Sporton International Inc. Wensan Laboratory.				
	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)				
Test Site Location	TEL: +886-3-327-0868				
	FAX: +886-3-327-0855				
Took Cito No	Sporton Site No.				
Test Site No.	03CH12-HY (TAF Code: 3786)				
Test Engineer	Jack Cheng, Lance Chiang, and Chuan Chu				
Temperature (°C)	21.6~26.2				
Relative Humidity (%)	56.0~68.0				
Remark	The Radiated Spurious Emission test item subcontracted to Sporton				
	International Inc. Wensan Laboratory.				

Note: The test site complies with ANSI C63.4 2014 requirement.

FCC Designation No.: TW1190 and TW3786

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## 1.4 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

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- + ANSI C63.26-2015
- ANSI / TIA-603-E
- FCC 47 CFR Part 2, 27
- FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- FCC KDB 412172 D01 Determining ERP and EIRP v01r01
- FCC KDB 414788 D01 Radiated Test Site v01r01

#### Remark:

- 1. All test items were verified and recorded according to the standards and without any deviation during the test.
- 2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.
- 3. The TAF code is not including all the FCC KDB listed without accreditation.

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## 2 Test Configuration of Equipment Under Test

### 2.1 Test Mode

Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 with maximum output power.

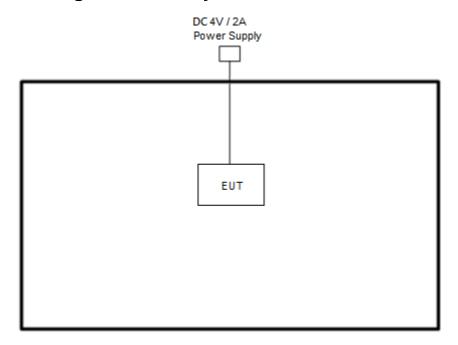
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For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in two config (Ant. Horizontal and Ant. Vertical), and adjusting the measurement antenna orientation, following C63.26 exploratory test procedures and find Ant. Horizontal as worst plane.

Test	NR				Ва	andw	/idth	(MF	łz)						Modulat	ion		RB#			Test Channel		
Items	Band	10	15	20	30	40	50	60	70	80	90	100	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	1	Half	Full	L	М	н
Max. Output Power	n77			>		v	٧	>		٧	v	>	v	v	v	v	v	٧	v	>	v	>	v
Peak-to- Average Ratio	n77			v									v	v	v	v	v			٧		٧	
26dB and 99% Bandwidth	n77			v		v	v	٧		v	v	٧	v	v	v	v	v			٧		٧	
Conducted Band Edge	n77			٧		v	v	٧		v	v	٧	v	v	v	v	v	٧		v	v		v
Conducted Spurious Emission	n77			V										v				٧			v	٧	v
Frequency Stability	n77			v									v							v		v	
E.I.R.P	n77			٧		v	v	v		v	٧	٧	v	v	v	v	v			Max.	Powe	r	
Radiated Spurious Emission	n77	Worst Case						v	<	v													
Remark	1. The mark "v" means that this configuration is chosen for testing 2. The mark "-" means that this bandwidth is not supported. 3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported. 4. Test combination is EN-DC 2A-n77A, EN-DC 5A-n77A, EN-DC 12A-n77A, EN-DC 13A-77A, EN-DC 14A-n77A, EN-DC 30A-n77A, EN-DC 66A-n77A 5. For radiated measurement, pre-scanned in two modes, DFT-s OFDM and CP OFDM. The worst cases (DFT-s OFDM) were recorde in this report, and the worst modes of FR1 and LTE for simultaneous transmission were verified and compliant.																						

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## 2.2 Connection Diagram of Test System



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### 2.3 Support Unit used in test configuration and system

Item	Equipment	<b>Brand Name</b>	Model No.	FCC ID	Data Cable	Power Cord
1.	Radio Communication Analyzer	Anritsu	MT8821C	N/A	N/A	Unshielded, 1.8 m
2.	5G Wireless Test Platform	Anritsu	MT8000A	N/A	N/A	Unshielded, 1.8 m
3.	Power Supply	GWINSTEK	GPE-2323	N/A	N/A	Unshielded, 1.8 m

## 2.4 Measurement Results Explanation Example

#### For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 4.2 dB and 10dB attenuator.

#### Example:

Offset(dB) = RF cable loss(dB) + attenuator factor(dB). = 4.2 + 10 = 14.2 (dB)

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## 2.5 Frequency List of Low/Middle/High Channels

	5G NR Band n77 Channel and Frequency List							
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest				
100	Channel	650000	656000	662000				
100	Frequency	3750	3840	3930				
90	Channel	649668	656000	662332				
90	Frequency	3745.02	3840	3934.98				
00	Channel	649334	656000	662666				
80	Frequency	3740.01	3840	3939.99				
60	Channel	648668	656000	663332				
60	Frequency	3730.02	3840	3949.98				
<b>50</b>	Channel	648334	656000	663666				
50	Frequency	3725.01	3840	3954.99				
40	Channel	648000	656000	664000				
40	Frequency	3720	3840	3960				
20	Channel	647334	656000	664666				
20	Frequency	3710.01	3840	3969.99				

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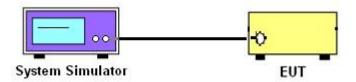
## 3 Conducted Test Items

## 3.1 Measuring Instruments

See list of measuring instruments of this test report.

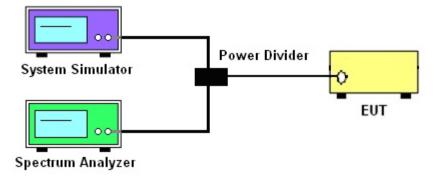
### 3.1.1 Test Setup

### 3.1.2 Conducted Output Power

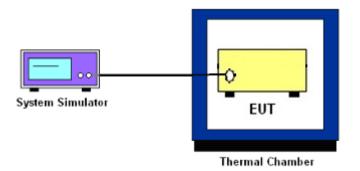


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# 3.1.3 Peak-to-Average Ratio, Occupied Bandwidth ,Conducted Band-Edge and Conducted Spurious Emission



### 3.1.4 Frequency Stability



#### 3.1.5 Test Result of Conducted Test

Please refer to Appendix A.

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## 3.2 Conducted Output Power and EIRP

# 3.2.1 Description of the Conducted Output Power Measurement and EIRP Measurement

A system simulator was used to establish communication with the EUT. Its parameters were set to force the EUT transmitting at maximum output power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

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The EIRP of mobile transmitters must not exceed 1 Watts for 5G NR n77

According to KDB 412172 D01 Power Approach,

 $EIRP = P_T + G_T - L_C$ , ERP = EIRP -2.15, where

 $P_T$  = transmitter output power in dBm

 $G_T$  = gain of the transmitting antenna in dBi

L<sub>C</sub> = signal attenuation in the connecting cable between the transmitter and antenna in dB

#### 3.2.2 Test Procedures

- 1. The transmitter output port was connected to the system simulator.
- 2. Set EUT at maximum power through the system simulator.
- 3. Select lowest, middle, and highest channels for each band and different modulation.
- 4. Measure and record the power level from the system simulator.

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## 3.3 Peak-to-Average Ratio

### 3.3.1 Description of the PAR Measurement

Power Complementary Cumulative Distribution Function (CCDF) curves provide a means for characterizing the power peaks of a digitally modulated signal on a statistical basis. A CCDF curve depicts the probability of the peak signal amplitude exceeding the average power level. Most contemporary measurement instrumentation include the capability to produce CCDF curves for an input signal provided that the instrument's resolution bandwidth can be set wide enough to accommodate the entire input signal bandwidth. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

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#### 3.3.2 Test Procedures

The testing follows ANSI C63.26-2015 Section 5.2.6

- 1. The EUT was connected to spectrum and system simulator via a power divider.
- 2. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
- 3. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
- 4. Record the deviation as Peak to Average Ratio.

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3.4 Occupied Bandwidth

3.4.1 Description of Occupied Bandwidth Measurement

The occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the

total mean transmitted power.

The 26 dB emission bandwidth is defined as the frequency range between two points, one above and

one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB

below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit

bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of

the emission bandwidth.

3.4.2 Test Procedures

The testing follows ANSI C63.26-2015 Section 5.4.3 (26dB) and Section 5.4.4 (99OB)

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.

2. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency.

The span range for the spectrum analyzer shall be between two and five times the anticipated

OBW.

The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated 3.

OBW, and the VBW shall be at least 3 times the RBW.

4. Set the detection mode to peak, and the trace mode to max hold.

5. Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to

stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace.

(this is the reference value)

6. Determine the "-26 dB down amplitude" as equal to (Reference Value – X).

7. Place two markers, one at the lowest and the other at the highest frequency of the envelope of

the spectral display such that each marker is at or slightly below the "-X dB down amplitude"

determined in step 6. If a marker is below this "-X dB down amplitude" value it shall be placed

as close as possible to this value. The OBW is the positive frequency difference between the

two markers.

8. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured

bandwidth.

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### 3.5 Conducted Band Edge

### 3.5.1 Description of Conducted Band Edge Measurement

27.53 (I)(2)

For mobile operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed –13 dBm/MHz. Compliance with this paragraph (I)(2) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be either one percent of the emission bandwidth of the fundamental emission of the transmitter or 350 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

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#### 3.5.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.1.

- 1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
- 2. The band edges of low and high channels for the highest RF powers were measured.
- 3. Set RBW >= 1% EBW in the 1MHz band immediately outside and adjacent to the band edge.
- 4. Beyond the 1 MHz band from the band edge, RBW=1MHz was used.
- 5. Set spectrum analyzer with RMS detector.
- The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 7. Checked that all the results comply with the emission limit line.

The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)

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### 3.6 Conducted Spurious Emission

### 3.6.1 Description of Conducted Spurious Emission Measurement

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least 43 + 10 log (P) dB.

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#### 3.6.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.1.

- 1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
- The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.
   The path loss was compensated to the results for each measurement.
- 3. The middle channel for the highest RF power within the transmitting frequency was measured.
- 4. The conducted spurious emission for the whole frequency range was taken.
- 5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz.
- 6. Set spectrum analyzer with RMS detector.
- 7. Taking the record of maximum spurious emission.
- 8. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 9. The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)

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## 3.7 Frequency Stability

### 3.7.1 Description of Frequency Stability Measurement

27.54

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

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### 3.7.2 Test Procedures for Temperature Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

- 1. The EUT was set up in the thermal chamber and connected with the system simulator.
- 2. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
- 3. With power OFF, the temperature was raised in 10°C step up to 50°C. The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

### 3.7.3 Test Procedures for Voltage Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

- The EUT was placed in a temperature chamber at 20±5° C and connected with the system simulator.
- 2. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
- 3. The variation in frequency was measured for the worst case.

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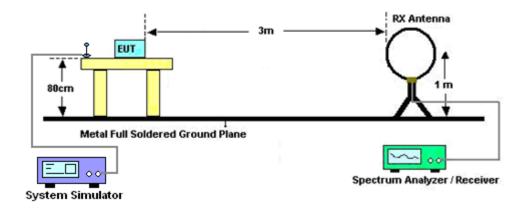
## 4 Radiated Test Items

## 4.1 Measuring Instruments

See list of measuring instruments of this test report.

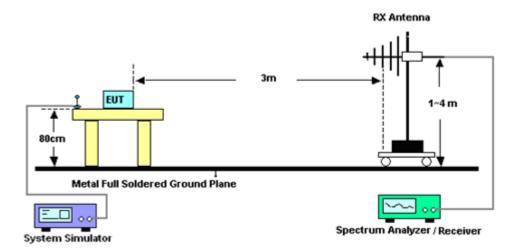
## 4.1.1 Test Setup

#### For radiated emissions below 30MHz



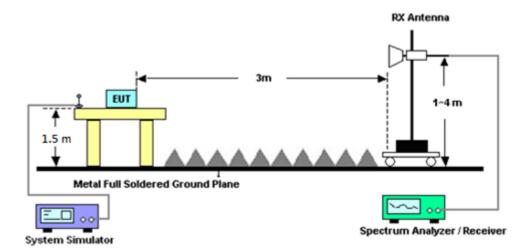
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#### For radiated test from 30MHz to 1GHz



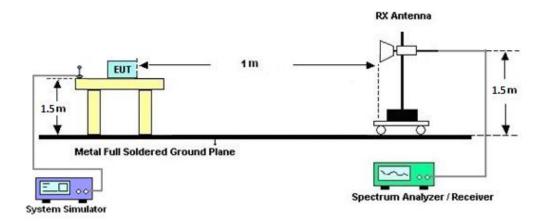
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#### For radiated test from 1GHz to 18GHz



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#### For radiated test above 18GHz



#### 4.1.2 Test Result of Radiated Test

Please refer to Appendix B.

#### Note:

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

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## 4.2 Radiated Spurious Emission Measurement

### 4.2.1 Description of Radiated Spurious Emission Measurement

The radiated spurious emission was measured by substitution method according to ANSI / TIA-603-E. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least 43 + 10 log (P) dB.

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#### 4.2.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 7 and ANSI / TIA-603-E Section 2.2.12.

- 1. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
- 2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
- 3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
- 4. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
- 5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
- 6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
- 7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
- 8. Taking the record of output power at antenna port.
- 9. Repeat step 7 to step 8 for another polarization.
- 10. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)

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## 5 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Sep. 07, 2021	Mar. 02, 2022~ Mar. 03, 2022	Sep. 06, 2022	Radiation (03CH12-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N -06	37059 & 01	30MHz~1GHz	Oct. 09, 2021	Mar. 02, 2022~ Mar. 03, 2022	Oct. 08, 2022	Radiation (03CH12-HY)
Bilog Antenna	TESEQ	CBL 6111D & N-6-06	35414 & AT-N0602	30MHz~1GHz	Oct. 09, 2021	Mar. 02, 2022~ Mar. 03, 2022	Oct. 08, 2022	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-1328	1GHz~18GHz	Dec. 03, 2021	Mar. 02, 2022~ Mar. 03, 2022	Dec. 02, 2022	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-1212	1GHz~18GHz	May 18, 2021	Mar. 02, 2022~ Mar. 03, 2022	May 17, 2022	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA91702 51	18GHz~40GHz	Nov. 30, 2021	Mar. 02, 2022~ Mar. 03, 2022	Nov. 29, 2022	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA91705 76	18GHz~40GHz	May 21, 2021	Mar. 02, 2022~ Mar. 03, 2022	May 20, 2022	Radiation (03CH12-HY)
Preamplifier	COM-POWER	PA-103	161075	10MHz~1GHz	Mar. 24, 2021	Mar. 02, 2022~ Mar. 03, 2022	Mar. 23, 2022	Radiation (03CH12-HY)
Preamplifier	Aglient	8449B	3008A02375	1GHz~26.5GHz	May 25, 2021	Mar. 02, 2022~ Mar. 03, 2022	May 24, 2022	Radiation (03CH12-HY)
Preamplifier	E-INSTRUME NT TECH LTD.	ERA-100M-18 G-56-01-A70	EC1900270	1GHz-18GHz	Dec. 27, 2021	Mar. 02, 2022~ Mar. 03, 2022	Dec. 26, 2022	Radiation (03CH12-HY)
Preamplifier	EMEC	EM18G40G	060801	18GHz~40GHz	Jun. 22, 2021	Mar. 02, 2022~ Mar. 03, 2022	Jun. 21, 2022	Radiation (03CH12-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200486	10Hz~44GHz	Oct. 15, 2021	Mar. 02, 2022~ Mar. 03, 2022	Oct. 14, 2022	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0058/126E	30MHz~18GHz	Dec. 10, 2021	Mar. 02, 2022~ Mar. 03, 2022	Dec. 09, 2022	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30MHz~40GHz	Feb. 21, 2022	Mar. 02, 2022~ Mar. 03, 2022	Feb. 20, 2023	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	800740/2	30MHz~40GHz	Feb. 21, 2022	Mar. 02, 2022~ Mar. 03, 2022	Feb. 20, 2023	Radiation (03CH12-HY)
Filter	Wainwright	WLKS1200-12 SS	SN2	1.2GHz Low Pass Filter	Mar. 17, 2021	Mar. 02, 2022~ Mar. 03, 2022	Mar. 16, 2022	Radiation (03CH12-HY)
Filter	Wainwright	WHKX12-1080 -1200-15000-6 0SS	SN1	1.2GHz High Pass Filter	Mar. 17, 2021	Mar. 02, 2022~ Mar. 03, 2022	Mar. 16, 2022	Radiation (03CH12-HY)
Filter	Wainwright	WHKX12-2700 -3000-18000-6 0ST	SN2	3GHz High Pass Filter	Jul. 12, 2021	Mar. 02, 2022~ Mar. 03, 2022	Jul. 11, 2022	Radiation (03CH12-HY)
Filter	Wainwright	WHKX8-5872. 5-6750-18000- 40ST	SN2	6.75GHz High Pass Filter	Mar. 17, 2021	Mar. 02, 2022~ Mar. 03, 2022	Mar. 16, 2022	Radiation (03CH12-HY)

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Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	TECPEL	DTM-303B	TP140349	N/A	Sep. 30, 2021	Mar. 02, 2022~ Mar. 03, 2022	Sep. 29, 2022	Radiation (03CH12-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Mar. 02, 2022~ Mar. 03, 2022	N/A	Radiation (03CH12-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Mar. 02, 2022~ Mar. 03, 2022	N/A	Radiation (03CH12-HY)
Turn Table	EMEC	TT2000	N/A	N/A 0~360 Degree		Mar. 02, 2022~ Mar. 03, 2022	N/A	Radiation (03CH12-HY)
Software	Audix	E3 6.2009-8-24	RK-000989	N/A	N/A	Mar. 02, 2022~ Mar. 03, 2022	N/A	Radiation (03CH12-HY)
Programmable Power Supply	GW Instek	PSS-2005	EL890001	50Hz~60Hz	Oct. 06, 2021	Mar. 01, 2022~ Mar. 02, 2022	Oct. 05, 2022	Conducted (TH03-HY)
Hygrometer	Testo	608-H11	34893240	NA	Nov. 17, 2021	Mar. 01, 2022~ Mar. 02, 2022	Nov. 16, 2022	Conducted (TH03-HY)
Signal Analyzer	Rohde & Schwarz	FSV3044	101048	10Hz~44GHz	Apr. 20, 2021	Mar. 01, 2022~ Mar. 02, 2022	Apr. 19, 2022	Conducted (TH03-HY)
Temperature Chamber	ESPEC	LHU-113	1012005860	-20℃ ~85℃	Dec. 09, 2021	Mar. 01, 2022~ Mar. 02, 2022	Dec. 08, 2022	Conducted (TH03-HY)
Base Station (Measure)	Anritsu	MT8821C	6261849015	LTE	Oct. 06, 2021	Mar. 01, 2022~ Mar. 02, 2022	Oct. 05, 2022	Conducted (TH03-HY)
Base Station (Measure)	Anritsu	MT8000A	6261940327	FR1	Oct. 29, 2021	Mar. 01, 2022~ Mar. 02, 2022	Oct. 28, 2022	Conducted (TH03-HY)

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## 6 Uncertainty of Evaluation

### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.10 dB

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### **Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)**

Measuring Uncertainty for a Level of	3 30 AB
Confidence of 95% (U = 2Uc(y))	3.39 dB

### Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

	- <b>-</b>
Measuring Uncertainty for a Level of	
	4.34 dB
Confidence of 95% (U = 2Uc(y))	

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## **Appendix A. Test Results of Conducted Test**

## Conducted Output Power(Average power) and EIRP

		NR n77 M	laximum Ave	rage Powe	er [dBm] (0	GT - LC = 6	dB)	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
20	1	1		22.92	23.56	23.51		
20	1	49		23.22	23.61	23.44		0.9141
20	25	12	PI/2 BPSK	23.00	23.58	23.39		
20	1	0		19.38	20.10	20.00		
20	1	50		19.73	20.13	19.91		
20	50	0		22.55	23.00	22.96	29.61	
20	1	1		22.90	23.52	23.47	29.01	
20	1	49		23.18	23.60	23.39		
20	25	12	QPSK	23.01	23.58	23.46		
20	1	0	QF3K	19.40	20.11	19.97		
20	1	50		19.64	20.12	19.85		
20	50	0		22.01	22.58	22.43		
20	1	1	16-QAM	21.93	22.55	22.44		
20	1	1	64-QAM	20.31	20.97	20.98	28.55	0.7161
20	1	1	256-QAM	18.43	19.01	18.97		
Limit		EIRP < 1\	V		Result		Pa	ISS

		NR n77 N	laximum Ave	erage Powe	er [dBm] (0	GT - LC = 6	dB)	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
40	1	1		23.22	23.75	23.72		
40	1	104		23.47	23.89	23.59		
40	50	25	PI/2 BPSK	23.51	23.82	23.62		
40	1	0		19.77	20.23	20.25		
40	1	105		19.97	20.54	20.11		0.9795
40	100	0		22.97	23.33	23.17	29.91	
40	1	1		23.22	23.67	23.71		
40	1	104		23.38	23.91	23.63		
40	50	25	QPSK	23.48	23.83	23.61		
40	1	0	Qr3N	19.71	20.22	20.29		
40	1	105		19.97	20.53	20.13		
40	100	0		22.44	22.82	22.68		
40	1	1	16-QAM	22.29	22.76	22.96		
40	1	1	64-QAM	20.35	21.23	21.44	28.96	0.7870
40	1	1	256-QAM	18.73	19.30	19.27		
Limit		EIRP < 1\	N	_	Result		Pa	ISS



		NR n77 M	laximum Ave	rage Powe	er [dBm] (0	GT - LC = 6	dB)	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
50	1	1		22.64	23.21	23.70		
50	1	131		22.93	23.72	23.22		
50	64	32	PI/2 BPSK	23.01	23.61	23.36		
50	1	0	FIIZ BF3K	19.12	19.69	20.12		
50	1	132		19.44	20.26	19.64		0.9376
50	128	0		22.51	23.07	22.88	29.72	
50	1	1		22.59	23.17	23.61	29.12	
50	1	131		22.90	23.68	23.19		
50	64	32	QPSK	23.03	23.60	23.41		
50	1	0	Qran	19.10	19.68	20.13		
50	1	132		19.44	20.22	19.64		
50	128	0		21.98	22.58	22.37		
50	1	1	16-QAM	21.61	22.23	22.57		
50	1	1	64-QAM	20.13	20.60	21.13	28.57	0.7194
50	1	1	256-QAM	18.12	18.57	19.09		
Limit		EIRP < 1\	N		Result		Pa	ISS

		NR n77 M	laximum Ave	erage Powe	er [dBm] (0	GT - LC = 6	dB)	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
60	1	1		22.84	23.22	23.90		
60	1	160		23.16	23.92	23.88		
60	81	40	PI/2 BPSK	23.21	23.59	23.93		
60	1	0		19.31	19.64	20.68		
60	1	161		19.68	20.40	20.45		0.9863
60	162	0		22.69	23.07	23.61	29.94	
60	1	1		22.76	23.15	23.89	29.94	
60	1	160		23.10	23.87	23.94		
60	81	40	QPSK	23.19	23.56	23.89		
60	1	0	Qr3N	19.30	19.65	20.69		
60	1	161		19.68	20.36	20.41		
60	162	0		22.02	22.61	23.12		
60	1	1	16-QAM	21.81	22.18	23.20	_	_
60	1	1	64-QAM	20.36	20.70	21.62	29.20	0.8318
60	1	1	256-QAM	18.37	18.57	19.52		
Limit		EIRP < 1\	N		Result		Pa	ISS



		NR n77 N	laximum Ave	rage Powe	er [dBm] (0	GT - LC = 6	dB)	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
80	1	1		22.84	23.10	23.94		
80	1	215		23.31	23.87	23.89		
80	108	54	PI/2 BPSK	23.10	23.52	23.91		
80	1	0		19.40	19.56	20.55		
80	1	216		19.84	20.44	20.42		0.9863
80	216	0		22.65	23.03	23.60	20.04	
80	1	1		22.86	23.05	23.88	29.94	
80	1	215		23.30	23.87	23.94		
80	108	54	QPSK	23.07	23.55	23.84		
80	1	0	Qran	19.32	19.54	20.56		
80	1	216		19.78	20.44	20.44		
80	216	0		22.13	22.50	23.11		
80	1	1	16-QAM	21.77	21.97	23.08	_	
80	1	1	64-QAM	20.24	20.55	21.55	29.08	0.8091
80	1	1	256-QAM	18.35	18.74	19.58		
Limit		EIRP < 1\	N		Result		Pa	iss

		NR n77 M	laximum Ave	erage Powe	er [dBm] (0	GT - LC = 6	dB)	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
90	1	1		22.82	23.03	23.82		
90	1	243		23.48	23.82	23.78		
90	120	60	PI/2 BPSK	23.09	23.62	23.92		
90	1	0		19.31	19.54	20.62		
90	1	244		19.99	20.63	20.35		0.9886
90	243	0		22.69	23.09	23.72	29.95	
90	1	1		22.74	23.03	23.95	29.90	
90	1	243		23.42	23.82	23.91		
90	120	60	QPSK	23.08	23.65	23.82		
90	1	0	Qr3N	19.27	19.54	20.59		
90	1	244		20.02	20.63	20.29		
90	243	0		22.22	22.59	23.20		
90	1	1	16-QAM	21.79	21.99	23.04	_	
90	1	1	64-QAM	20.31	20.55	21.71	29.04	0.8017
90	1	1	256-QAM	18.35	18.59	19.53		
Limit		EIRP < 1\	N		Result		Pa	ISS



		NR n77 N	laximum Ave	erage Powe	er [dBm] (0	GT - LC = 6	dB)	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
100	1	1		22.90	23.11	23.64		
100	1	271		23.41	23.82	23.82		
100	135	67	PI/2 BPSK	23.14	23.64	23.98		
100	1	0		19.38	19.56	20.27		
100	1	272		19.86	20.72	20.24		0.9954
100	270	0		22.71	23.13	23.32	29.98	
100	1	1		22.81	23.04	23.76		
100	1	271		23.30	23.74	23.73		
100	135	67	QPSK	23.17	23.65	23.95		
100	1	0	Qr3N	19.33	19.56	20.20		
100	1	272		19.84	20.68	20.25		
100	270	0		22.24	22.64	22.82		
100	1	1	16-QAM	21.79	22.12	23.08		
100	1	1	64-QAM	20.31	20.68	21.67	29.08	0.8091
100	1	1	256-QAM	18.50	18.49	19.48		
Limit		EIRP < 1\	N		Result		Pa	ISS

## FR1 n77

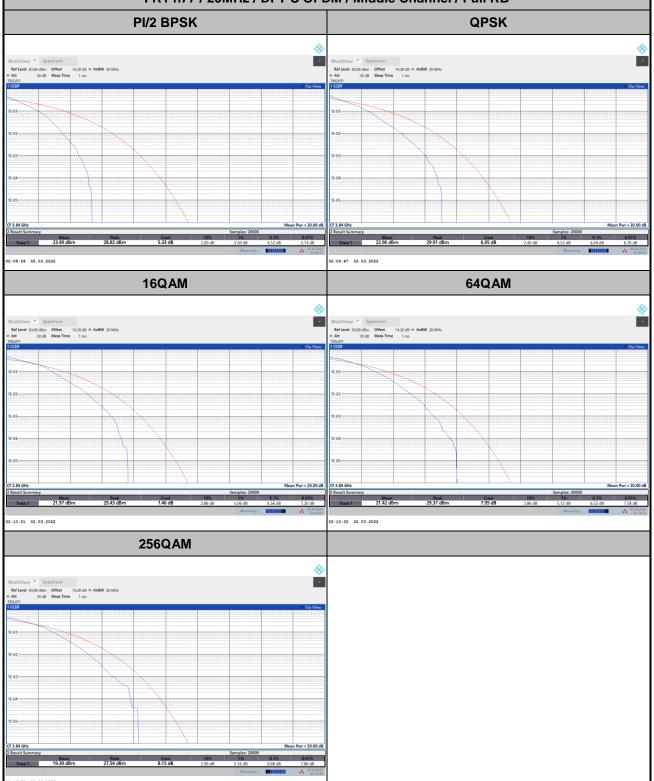
## Peak-to-Average Ratio

Mode		FR1 n77 / 20MHz / DFT-S OFDM							
Mod.	PI/2 BPSK	QPSK	16QAM	64QAM	Limit: 13dB				
RB Size	Full RB	Full RB	Full RB	Full RB	Result				
Middle CH	4.52	6.04	6.56	6.52	PASS				
Mode		FR1 n77 / 20MH	z / DFT-S OFDM						
Mod.	256QAM				Limit: 13dB				
RB Size	Full RB				Result				
Middle CH	6.68				PASS				

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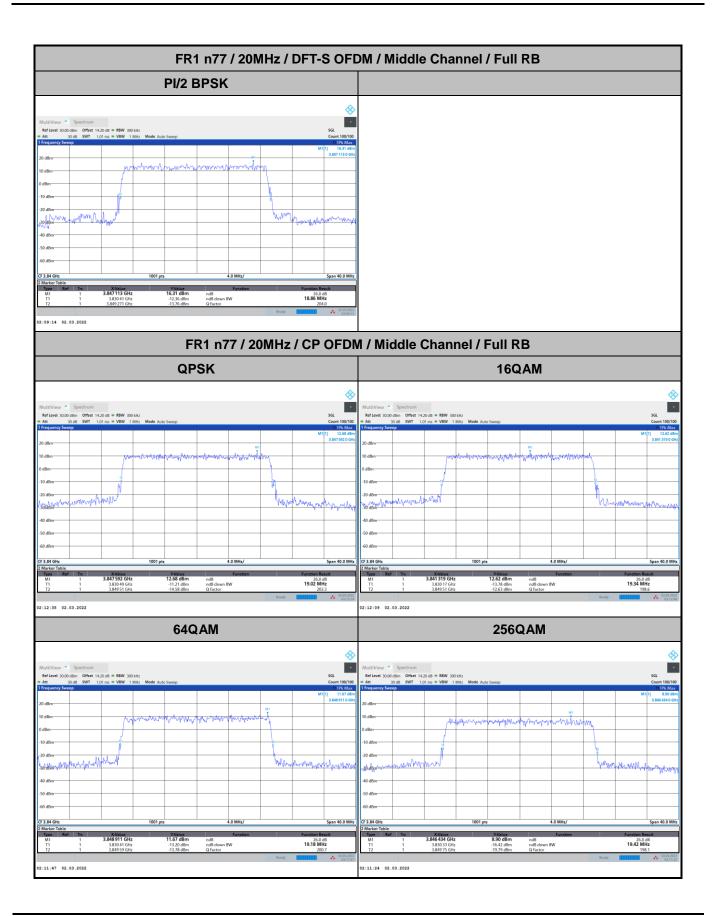
## 26dB Bandwidth

Mode		FR1 n77 : 26dB BW(MHz) / DFT-S OFDM										
BW	20MHz	30MHz	40MHz	50MHz	60MHz	70MHz	80MHz	90MHz				
Mod.	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK				
Middle CH	18.86	-	37.08	48.35	60.66	-	79.92	89.91				
BW	100MHz											
Mod.	PI/2 BPSK											
Middle CH	99.50											

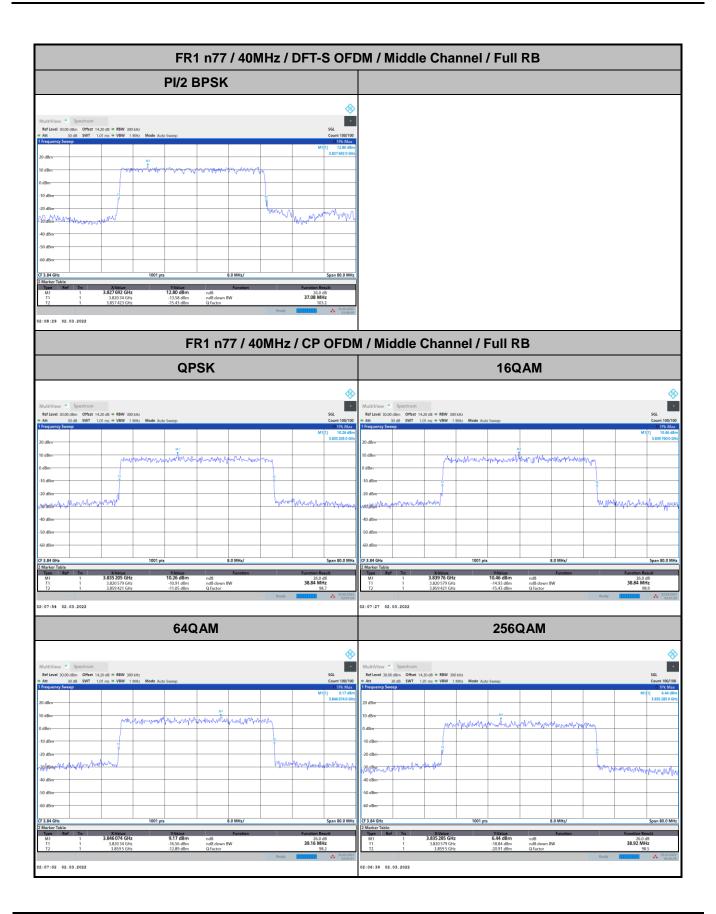
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Mode			FR1 n	77 : 26dB BV	V(MHz) / CP	OFDM			
BW	201	ИHz	301	ЛHz	401	40MHz		50MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	
Middle CH	19.02	19.34	-	-	38.84	38.84	50.15	49.95	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	
Middle CH	19.18	19.42	-	-	39.16	38.92	50.05	50.15	
BW	601	ИHz	70MHz		80MHz		90MHz		
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	
Middle CH	60.42	60.42	-	-	80.56	80.24	90.27	90.27	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	
Middle CH	60.42	60.42	-	-	80.40	80.24	90.45	90.45	
BW	100	MHz							
Mod.	QPSK	16QAM							
Middle CH	100.50	100.30							
Mod.	64QAM	256QAM							
Middle CH	100.50	100.70							

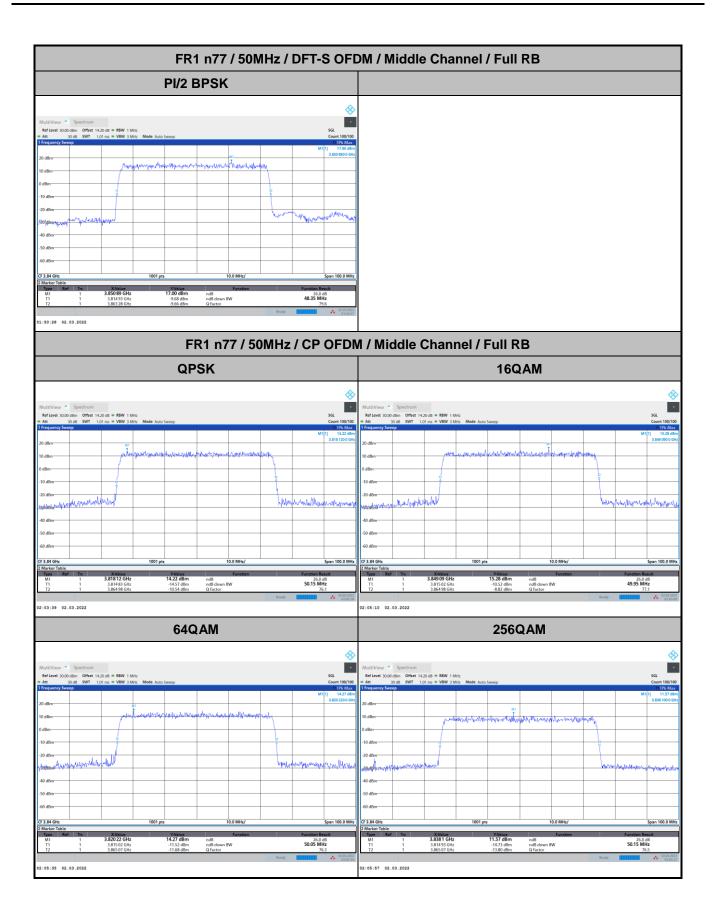
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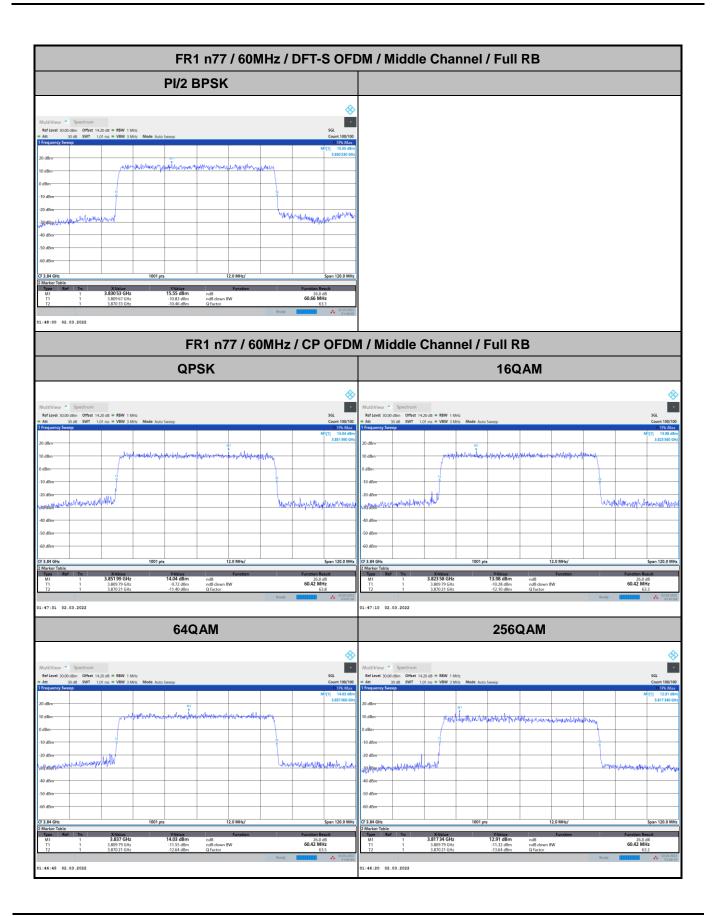
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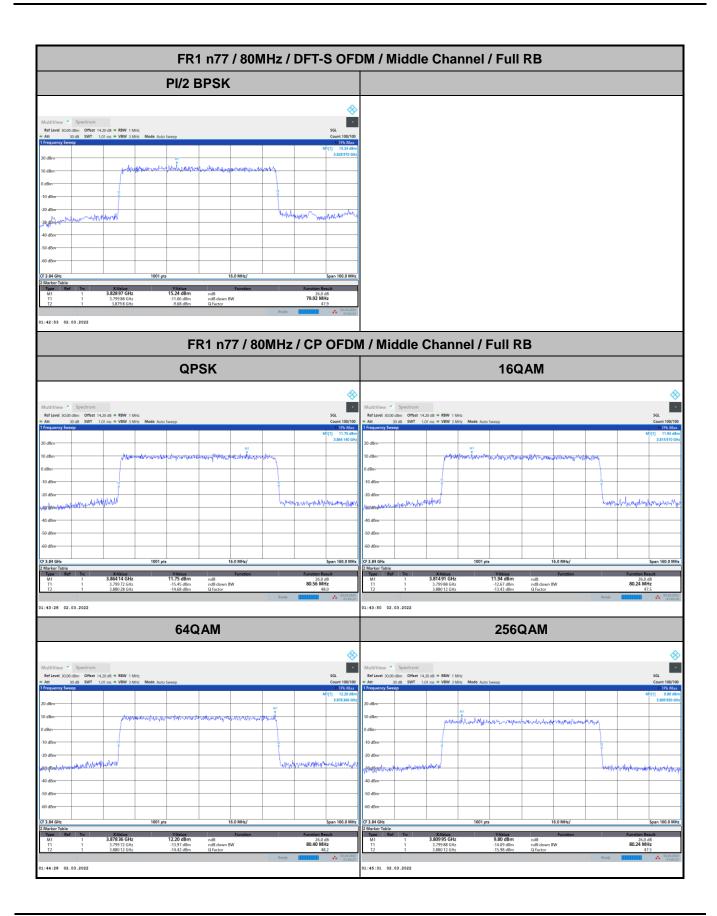
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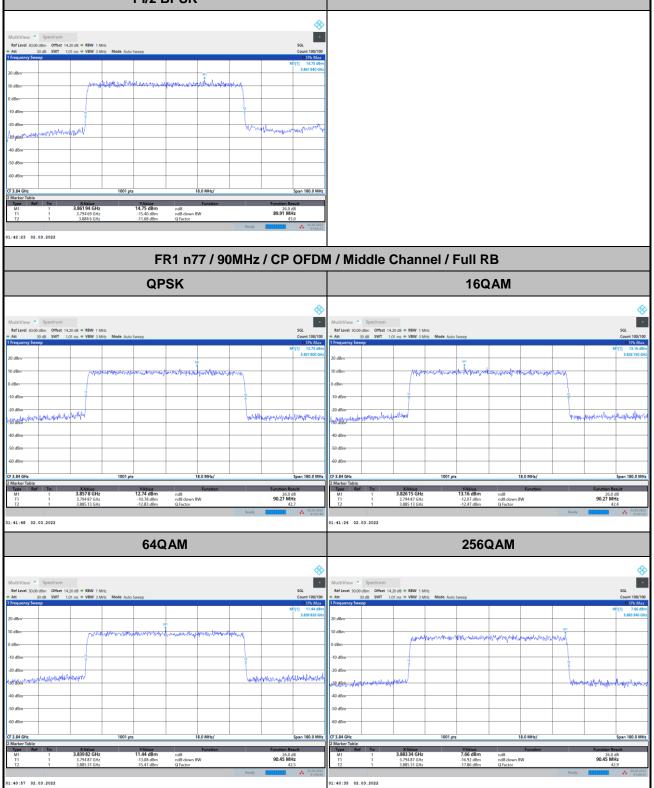


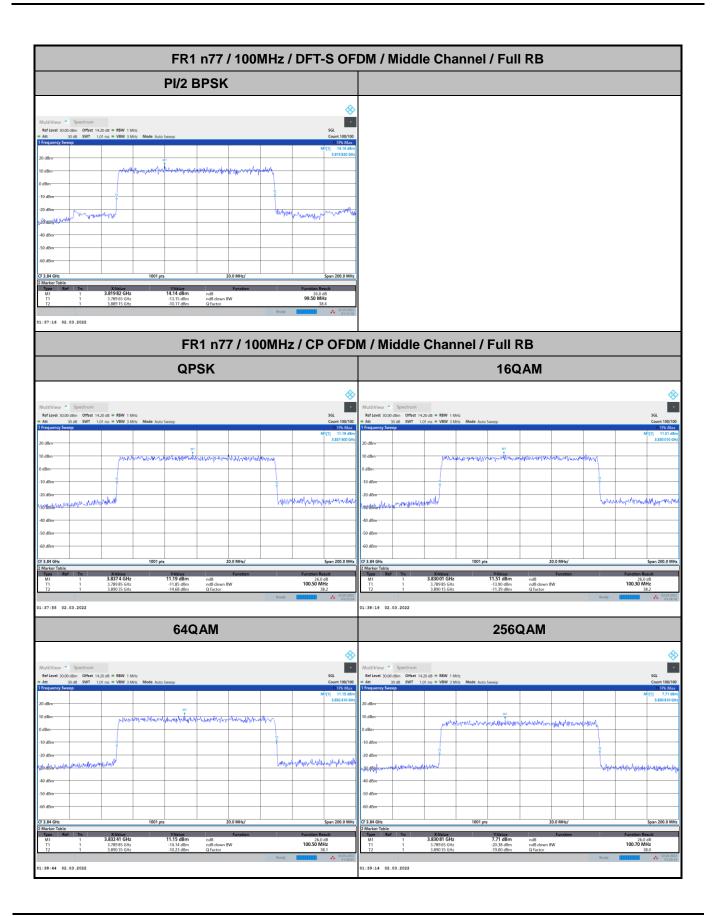
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Report No.: FG090125-05 FR1 n77 / 90MHz / DFT-S OFDM / Middle Channel / Full RB PI/2 BPSK Span 180.0 MHz 26.0 dB 89.91 MHz FR1 n77 / 90MHz / CP OFDM / Middle Channel / Full RB QPSK **16QAM** 26.0 dB 90.27 MHz 26.0 dB 90.27 MHz 64QAM 256QAM





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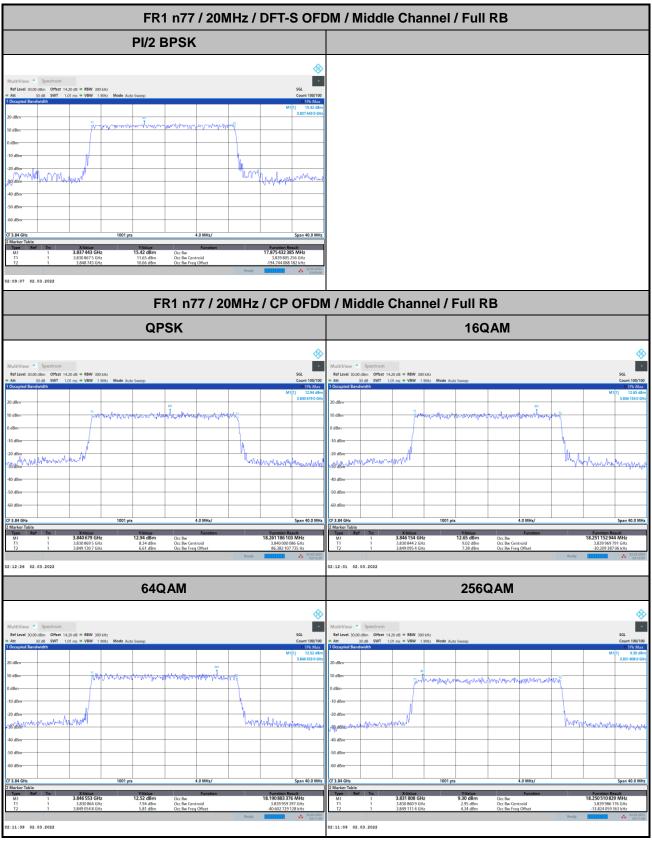
## Occupied Bandwidth

Mode	FR1 n77 : OB BW(MHz) / DFT-S OFDM										
BW	20MHz	30MHz	40MHz	50MHz	60MHz	70MHz	80MHz	90MHz			
Mod.	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK			
Middle CH	17.87	-	35.70	45.84	57.94	-	77.07	86.76			
BW	100MHz										
Mod.	PI/2 BPSK										
Middle CH	96.22										

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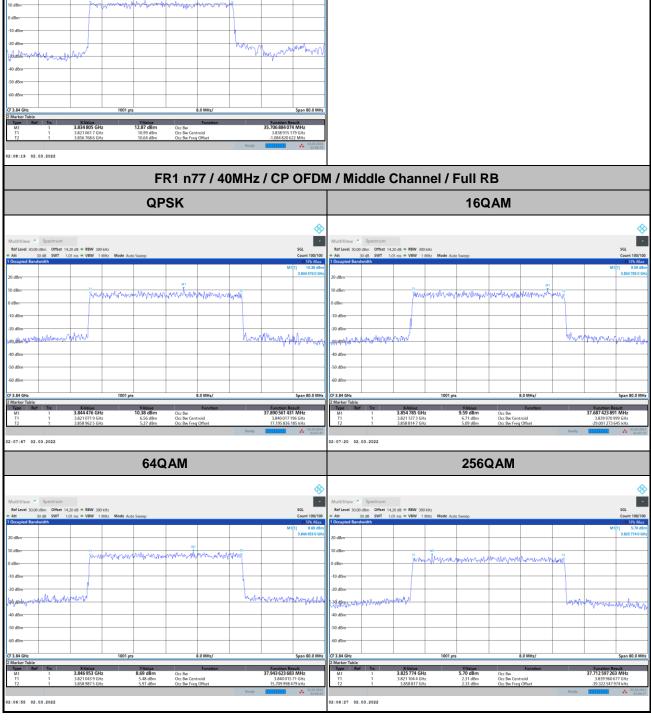
Mode	FR1 n77 : OB BW(MHz) / CP OFDM										
BW	20MHz		30MHz		40MHz		50MHz				
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM			
Middle CH	18.26	18.25	-	-	37.89	37.68	47.49	47.61			
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM			
Middle CH	18.19	18.25	-	-	37.94	37.71	47.49	47.49			
BW	60MHz		70MHz		80MHz		90MHz				
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM			
Middle CH	57.79	57.89	-	-	77.27	77.24	87.19	87.44			
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM			
Middle CH	57.88	58.06	-	-	77.34	77.32	87.37	87.26			
BW	100MHz		•		·						
Mod.	QPSK	16QAM									
Middle CH	97.33	97.32									
Mod.	64QAM	256QAM									
Middle CH	97.29	97.36									

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Report No.: FG090125-05 FR1 n77 / 50MHz / DFT-S OFDM / Middle Channel / Full RB PI/2 BPSK Span 100.0 MHz FR1 n77 / 50MHz / CP OFDM / Middle Channel / Full RB QPSK **16QAM** million Majorgalian With may and may any any and any any and any 64QAM 256QAM

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Span 100.0 MH

FAX: 886-3-328-4978

2:05:29 02.03.2022

Report No.: FG090125-05 FR1 n77 / 60MHz / DFT-S OFDM / Middle Channel / Full RB PI/2 BPSK al free work Non-Span 120.0 MHz Occ Bw Occ Bw Centroid Occ Bw Freq Offs FR1 n77 / 60MHz / CP OFDM / Middle Channel / Full RB QPSK **16QAM** mulgithantrappelation Woodbayoulded by some 64QAM 256QAM

TEL: 886-3-327-3456 Page Number: A2-15 of 62

Span 120.0 MH:

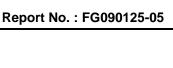
CF 3.84 GH

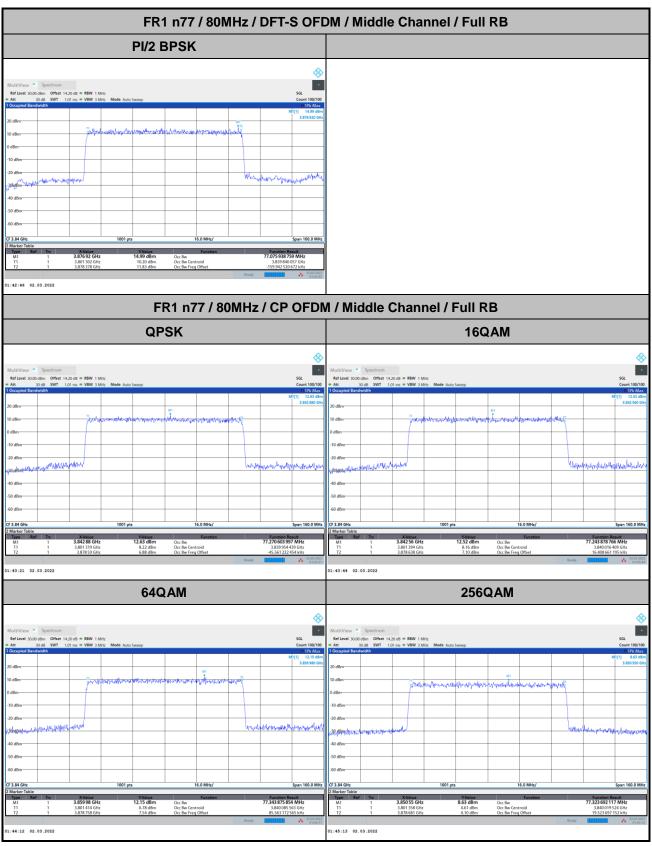
01:46:08 02.03.2022

Span 120.0 MH

FAX: 886-3-328-4978

L:46:38 02.03.2022





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Report No.: FG090125-05 FR1 n77 / 90MHz / DFT-S OFDM / Middle Channel / Full RB PI/2 BPSK Span 180.0 MHz FR1 n77 / 90MHz / CP OFDM / Middle Channel / Full RB QPSK **16QAM** 64QAM 256QAM

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CF 3.84 GH

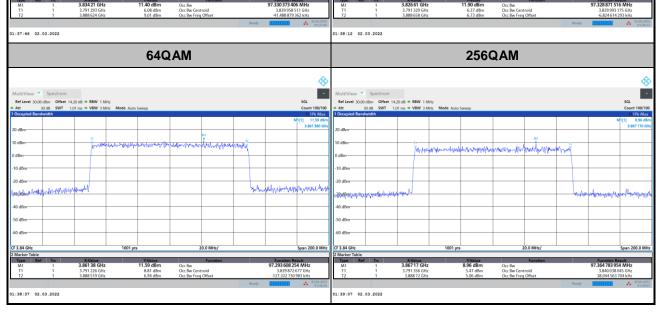
01:40:13 02.03.2022

Span 180.0 MH

FAX: 886-3-328-4978

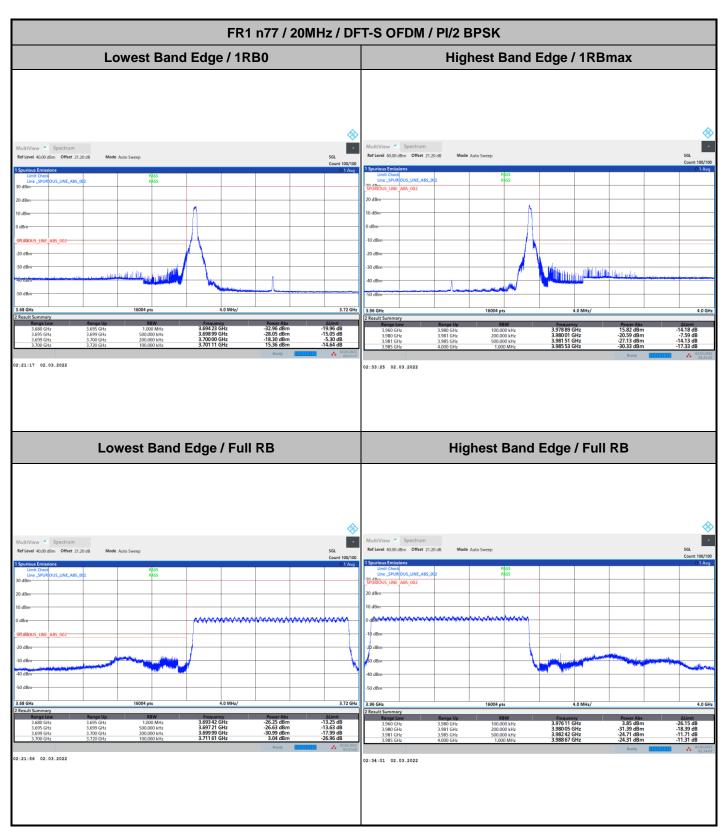
:40:50 02.03.2022

Report No.: FG090125-05 FR1 n77 / 100MHz / DFT-S OFDM / Middle Channel / Full RB PI/2 BPSK Span 200.0 MHz Occ Bw Occ Bw Centroid Occ Bw Freq Offs FR1 n77 / 100MHz / CP OFDM / Middle Channel / Full RB **QPSK 16QAM** Willy har yellow war and



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## **Conducted Band Edge**



Report No.: FG090125-05

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FR1 n77 / 20MHz / DFT-S OFDM / QPSK Lowest Band Edge / 1RB0 **Highest Band Edge / 1RBmax** 2:18:14 02.03.2022 Lowest Band Edge / Full RB **Highest Band Edge / Full RB** 

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