FCC RADIO TEST REPORT

FCC ID	:	GKRRMLN1T
Equipment	:	5G LGA Module
Brand Name	:	COMPAL
Model Name	:	RML-N1t
Marketing Name	:	5G LGA Module
Applicant	:	Compal Electronics, Inc. No.581 & 581-1, Ruiguang Rd., Neihu District, Taipei, (114) Taiwan
Manufacturer	:	Compal Electronics, Inc. No.581 & 581-1, Ruiguang Rd., Neihu District, Taipei, (114) Taiwan
Standard	:	FCC 47 CFR Part 2, 27

The product was received on Dec. 15, 2022 and testing was performed from Dec. 19, 2022 to Mar. 11, 2023. 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 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
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History of this test report

Report No.	Version	Description	Issue Date
FG2N2510-01G	01	Initial issue of report	Mar. 15, 2023
FG2N2510-01G	02	1. Revise Product Feature of Equipment Under Test, Support Unit used in test configuration and system and appendix A. 2. This report is an updated version, replacing the report issued on Mar. 15, 2023.	Mar. 23, 2023

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	§2.1046	Conducted Output Power	Reporting only	-
	§27.50 (j)(3)	Equivalent Isotropic Radiated Power (n77)	Pass	
3.3	§27.50 (j)(4)	Peak-to-Average Ratio	Pass	-
3.4	§2.1049	Occupied Bandwidth	Reporting only	-
3.5	§2.1051 §27.53 (l)(2)	Conducted Band Edge Measurement (n77)	Pass	-
3.6	§2.1051 §27.53 (l)(2)	Conducted Spurious Emission (n77)	Pass	-
3.7	§2.1055 §27.54	Frequency Stability Temperature & Voltage	Pass	-
4.2	§2.1051 §27.53 (l)(2)	Radiated Spurious Emission (n77)	Pass	4.87 dB under the limit at 11644.000 MHz

Declaration of Conformity:
1. 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 uncertainty is include in test results. 2. The measurement uncertainty please refer to 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: Keven Cheng

Report Producer: Lucy Wu

1 General Description

1.1 Product Feature of Equipment Under Test

LTE/5G NR and GNSS

The following antennas were provided to the EUT

	Band	Antenna Port	RF Exposure Max Antenna Gain(dBi)
5G NR	n77	OAI2/DA2/ OAI4/DA4	2.2
		OA5/OA6	
		EA2/EA4/EA1_5/EA3_6	4

Remark: The above EUT's information was declared by manufacturer.

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
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	**Sporton Site No.**
	TH03-HY
Test Engineer	Jimmy Chang and George Chen
Temperature (℃)	23.5~24.1
Relative Humidity (%)	48~52

Test Site	Sporton International Inc. Wensan Laboratory.
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	**Sporton Site No.**
	03CH12-HY (TAF Code: 3786)
Test Engineer	Wilson Wu, Jesse Fan and Tim Lee
Temperature (℃)	20~25
Relative Humidity (%)	50~60
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

1.4 Applicable Standards

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

- 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
- FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

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..

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.

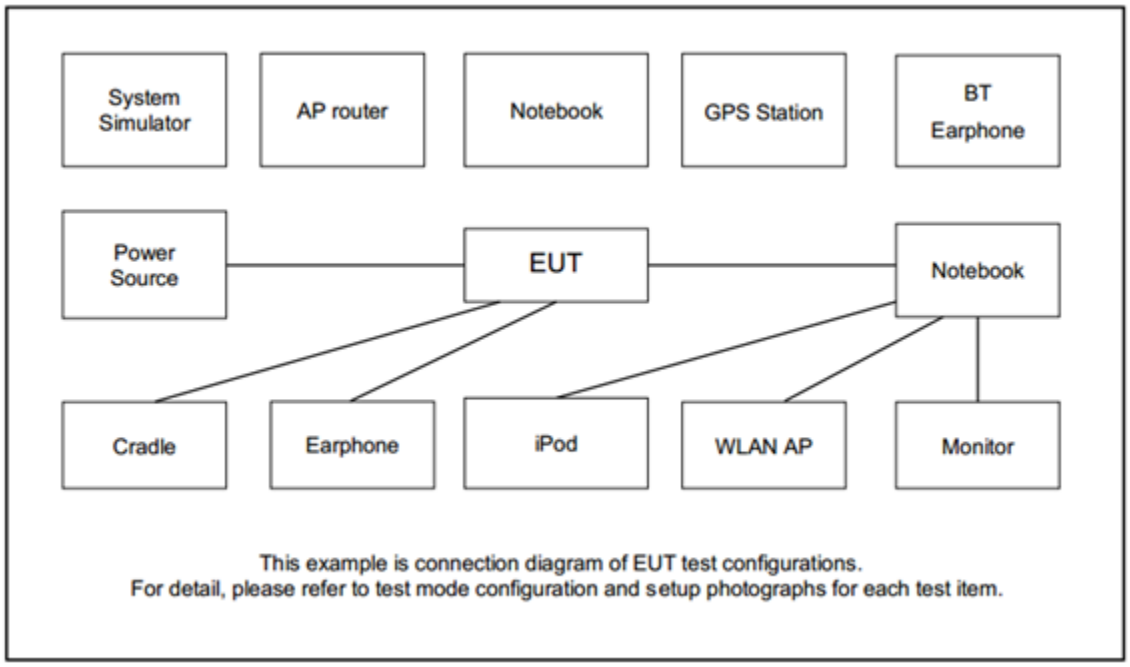
For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.26 exploratory test procedures and only the worst case emissions were reported in this report.

Test Items	NR Band	Bandwidth (MHz)												Modulation					RB #			Test Channel		
		10	15	20	25	30	40	50	60	70	80	90	100	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	1	Half	Full	L	M	H
Max. Output Power	n77_ HPUE	v	v	v	-	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
Peak-to-Average Ratio	n77_ HPUE			v	-									v	v	v	v	v			v		v	
26dB and 99% Bandwidth	n77_ HPUE	v	v	v	-	v	v	v	v	v	v	v	v	v	v	v	v	v			v		v	
Conducted Band Edge	n77_ HPUE	v	v	v	-	v	v	v	v	v	v	v	v	v	v	v	v	v	v		v	v		v
Conducted Spurious Emission	n77_ HPUE	v			-										v				v			v	v	v
Frequency Stability	n77_ HPUE			v	-									v	v						v		v	
E.I.R.P	n77_ HPUE	v	v	v	-	v	v	v	v	v	v	v	v	v	v	v	v	v	Max. Power					
Radiated Spurious Emission	n77_ HPUE	Worst Case																				v	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. For radiated measurement, pre-scanned in two modes, DFT-s OFDM and CP OFDM. The worst cases (DFT-s OFDM) were recorded in this report, and the worst modes of FR1 and LTE for simultaneous transmission were verified and compliant.
5. One representative bandwidth is selected to perform PAR and frequency stability.
6. 5G NR n77 SISO mode support Antenna OAI 2, DA 2, EA 2, OAI 4, DA 4, EA 4, OA 5, OA 6, EA 3_6, EA 1_5, among when switching to Antenna EA 2 & EA 4 & EA 1_5 & EA 3_6, there are Power back off mechanism and different Tune up power, in conducted power are Verified, the worst case is Antenna EA 1_5 test results are included in this report. for Radiated Spurious Emission is full test ,in Conducted test ietms are verified, the worst case is Antenna OA 5. Therefore, only performed the Antenna OA 5 test results in this report.
7. 5G NR n77 MIMO mode support Antenna OAI 4+OAI 2, DA 4+DA 2, EA 4+EA 2, OA 5+OAI 2, OA 5+OAI 4, OA 6+OAI 2, OA 6+OAI 4, OA 5+OA 6, EA 1_5+EA 3_6, EA 1_5+EA 4, EA 1_5+EA 2, EA 3_6+EA 2, EA 3_6+EA 4, among when switching to Antenna EA 4+EA 2 , EA 1_5+EA 3_6, EA 1_5+EA 4, EA 1_5+EA 2, EA 3_6+EA 2, EA 3_6+EA 4, there are Power back off mechanism and different Tune up power, in conducted power are Verified, the worst case is Antenna EA 1_5+EA 3_6, test results are included in this report. For Radiated Spurious Emission is full test, in Conducted test ietms are verified, the worst case is Antenna OA 5+OA 6. Therefore, only performed the Antenna OA 5+OA 6 test results in this report.
8. For 5G NR n77 BW:10/15/20/30/40 support SCS 15kHz & SCS 30 kHz, after verified, the worst case is SCS 30kHz. Therefore, only performed the SCS 30kHz test results for Conducted test item in this report.

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model No.	FCC ID	Data Cable	Power Cord
1.	5G Wireless Test Platform	Anritsu	MT8000A	N/A	N/A	Unshielded, 1.8 m
2.	Antenna (Type: Monopole)	Inpaq	ANT2	N/A	N/A	N/A
3.	Antenna (Type: Monopole)	Inpaq	ANT4	N/A	N/A	N/A
4.	Antenna (Type: Monopole)	Inpaq	ANT5	N/A	N/A	N/A
5.	Antenna (Type: Monopole)	Inpaq	ANT6	N/A	N/A	N/A

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)

2.5 Frequency List of Low/Middle/High Channels

5G NR n77 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
100	Channel	650000	656000	662000
	Frequency	3750	3840	3930
90	Channel	649668	656000	662332
	Frequency	3745.02	3840	3934.98
80	Channel	649334	656000	662666
	Frequency	3740.01	3840	3939.99
70	Channel	649000	656000	663000
	Frequency	3735	3840	3945
60	Channel	648668	656000	663332
	Frequency	3730.02	3840	3949.98
50	Channel	648334	656000	663666
	Frequency	3725.01	3840	3954.99
40	Channel	648000	656000	664000
	Frequency	3720	3840	3960
30	Channel	647668	656000	664332
	Frequency	3715.02	3840	3965
20	Channel	647334	656000	664666
	Frequency	3710.01	3840	3969.99
15	Channel	647168	656000	664832
	Frequency	3707.52	3840	3972.48
10	Channel	647000	656000	665000
	Frequency	3705	3840	3975

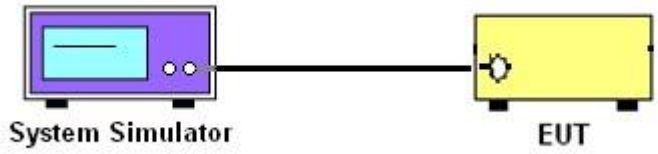
3 Conducted Test Items

3.1 Measuring Instruments

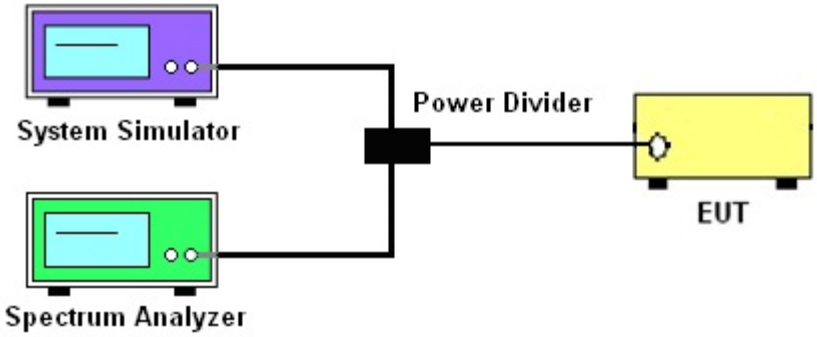
See list of measuring instruments of this test report.

3.1.1 Test Setup

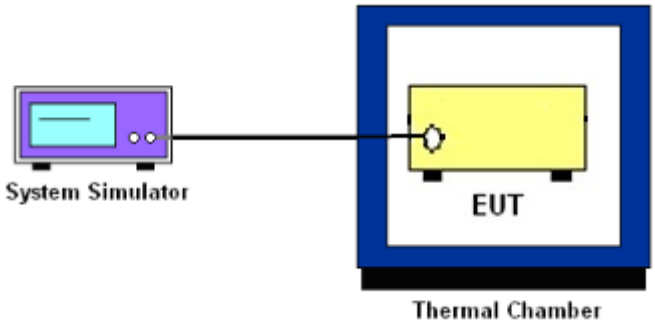
3.1.2 Conducted Output Power



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.

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.

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

According to KDB 412172 D01 Power Approach,

EIRP = $P_T + G_T – L_C$, where

P_T = transmitter output power in dBm

G_T = gain of the transmitting antenna in dBi

L_C = 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.
5. The MIMO mode is completely uncorrelated, so the directional gain is selected the maximum gain among all antennas.

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.

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.

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

3.5 Conducted Band Edge

3.5.1 Description of Conducted Band Edge Measurement

27.53 (l)(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 (l)(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.

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.
6. 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)
8. For MIMO mode, add additional MIMO factor 10log(NTX=2) = 3.01dB into the spectrum analyzer offset.

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.

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.
2. 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)
10. For MIMO mode, add additional MIMO factor 10log(NTX=2) = 3.01dB into the spectrum analyzer offset.

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.

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.

1. 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.

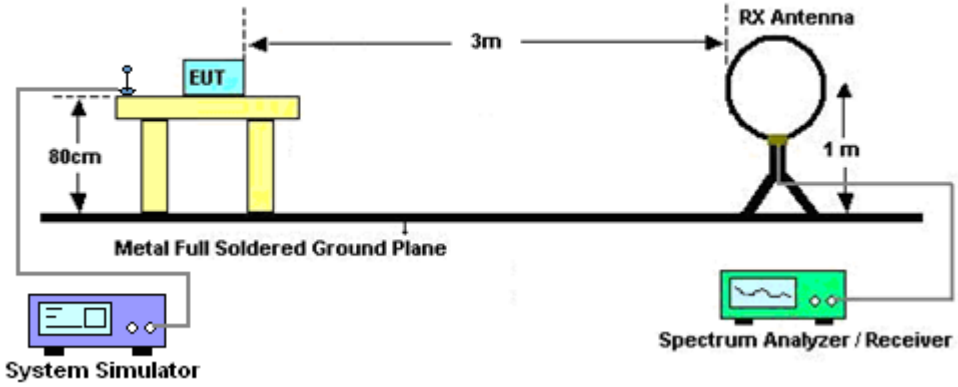
4 Radiated Test Items

4.1 Measuring Instruments

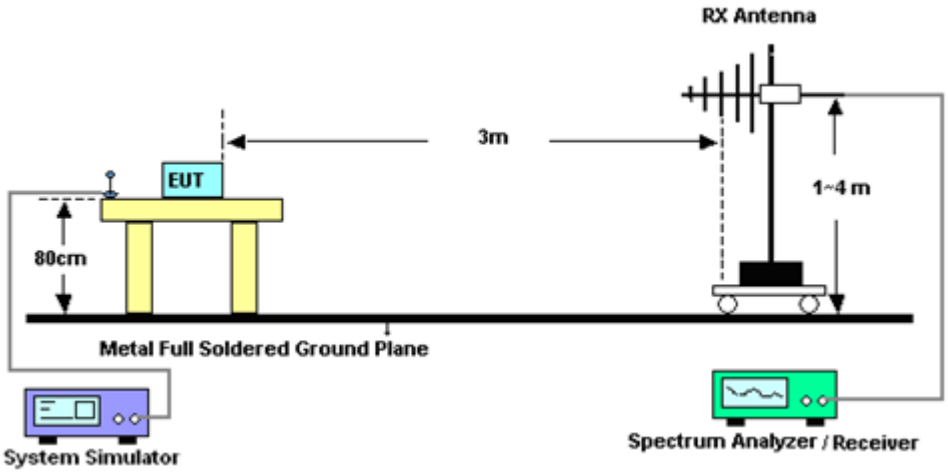
See list of measuring instruments of this test report.

4.1.1 Test Setup

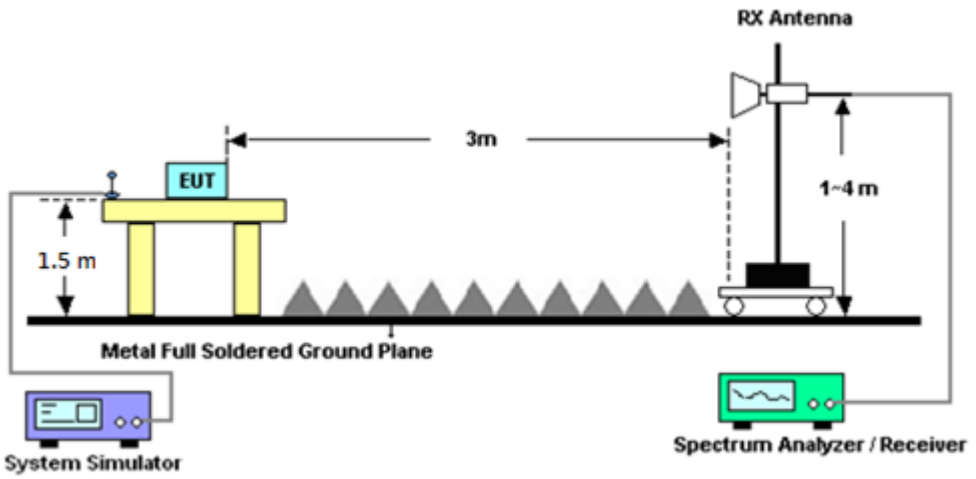
For radiated emissions below 30MHz



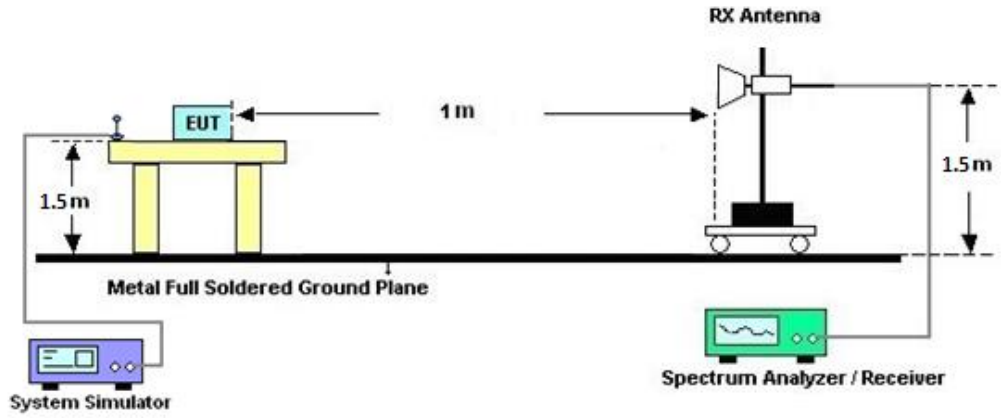
For radiated test from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



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.

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.

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)

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	May 13, 2022	Dec. 31, 2022~ Mar. 11, 2023	May 12, 2023	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-02114	1GHz~18GHz	Aug. 09, 2022	Dec. 31, 2022~ Mar. 11, 2023	Aug. 08, 2023	Radiation (03CH12-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N-06	40103 & 07	30MHz~1GHz	Apr. 24, 2022	Dec. 31, 2022~ Mar. 11, 2023	Apr. 23, 2023	Radiation (03CH12-HY)
Bilog Antenna	TESEQ	CBL 6111D & N-6-06	35414 & AT-N0602	30MHz~1GHz	Oct. 08, 2022	Dec. 31, 2022~ Mar. 11, 2023	Oct. 07, 2023	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1212	1GHz~18GHz	Mar. 10, 2022	Dec. 31, 2022~ Feb. 13, 2023	Mar. 09, 2023	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1241	1GHz~18GHz	Jul. 25, 2022	Mar. 11, 2023	Jul. 24, 2023	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	00993	18GHz~40GHz	Nov. 24, 2022	Dec. 31, 2022~ Mar. 11, 2023	Nov. 23, 2023	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170576	18GHz~40GHz	May 14, 2022	Dec. 31, 2022~ Mar. 11, 2023	May 13, 2023	Radiation (03CH12-HY)
Preamplifier	COM-POWER	PA-103	161075	10MHz~1GHz	Mar. 23, 2022	Dec. 31, 2022~ Mar. 11, 2023	Mar. 22, 2023	Radiation (03CH12-HY)
Preamplifier	Aglient	8449B	3008A02375	1GHz~26.5GHz	May 24, 2022	Dec. 31, 2022~ Mar. 11, 2023	May 23, 2023	Radiation (03CH12-HY)
Preamplifier	E-INSTRUMENT TECH LTD.	ERA-100M-18G-56-01-A70	EC1900249	1GHz-18GHz	Dec. 21, 2022	Dec. 31, 2022~ Mar. 11, 2023	Dec. 20, 2023	Radiation (03CH12-HY)
Preamplifier	E-INSTRUMENT TECH LTD.	ERA-100M-18G-56-01-A70	EC1900269	1GHz-18GHz	Dec. 26, 2022	Dec. 31, 2022~ Mar. 11, 2023	Dec. 25, 2023	Radiation (03CH12-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz~40GHz	Dec. 07, 2022	Dec. 31, 2022~ Mar. 11, 2023	Dec. 06, 2023	Radiation (03CH12-HY)
Spectrum Analyzer	Keysight	N9010A	MY53470118	10Hz~44GHz	Jan. 12, 2022	Dec. 31, 2022~ Jan. 10, 2023	Jan. 11, 2023	Radiation (03CH12-HY)
Signal Analyzer	Keysight	N9010B	MY60241055	NA	Jul. 22, 2022	Jan. 10, 2023~ Mar. 11, 2023	Jul. 21, 2023	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0058/126E	30MHz~18GHz	Dec. 20, 2022	Dec. 31, 2022~ Mar. 11, 2023	Dec. 19, 2023	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30MHz~40GHz	Dec. 20, 2022	Dec. 31, 2022~ Mar. 11, 2023	Dec. 19, 2023	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803953/2	30MHz~40GHz	Dec. 20, 2022	Dec. 31, 2022~ Mar. 11, 2023	Dec. 19, 2023	Radiation (03CH12-HY)
Filter	Wainwright	WHKX8-5872.5-6750-18000-40ST	SN2	6.75GHz High Pass Filter	Mar. 15, 2022	Dec. 31, 2022~ Mar. 11, 2023	Mar. 14, 2023	Radiation (03CH12-HY)
Hygrometer	TECPEL	DTM-303B	TP140325	N/A	Oct. 03, 2022	Dec. 31, 2022~ Mar. 11, 2023	Oct. 02, 2023	Radiation (03CH12-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Dec. 31, 2022~ Mar. 11, 2023	N/A	Radiation (03CH12-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Dec. 31, 2022~ Mar. 11, 2023	N/A	Radiation (03CH12-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Dec. 31, 2022~ Mar. 11, 2023	N/A	Radiation (03CH12-HY)
Software	Audix	E3 6.2009-8-24	RK-000989	N/A	N/A	Dec. 31, 2022~ Mar. 11, 2023	N/A	Radiation (03CH12-HY)
Programmable Power Supply	GW Instek	PSS-2005	EL890001	0V~64V ;0A~6A	Sep. 29, 2022	Dec. 19, 2022~ Mar. 06, 2023	Sep. 28, 2023	Conducted (TH03-HY)
Hygrometer	Testo	608-H11	34893241	NA	Mar. 18, 2022	Dec. 19, 2022~ Mar. 06, 2023	Mar. 17, 2023	Conducted (TH03-HY)
Signal Analyzer	Rohde & Schwarz	FSV3044	101048	10Hz~44GHz	May 05, 2022	Dec. 19, 2022~ Mar. 06, 2023	May 04, 2023	Conducted (TH03-HY)
Temperature Chamber	ESPEC	SH-641	92013720	-40℃ ~90℃	Sep. 07, 2022	Dec. 19, 2022~ Mar. 06, 2023	Sep. 06, 2023	Conducted (TH03-HY)
Base Station (Measure)	Anritsu	MT8000A	6262134933	FR1	Jun. 13, 2022	Dec. 19, 2022~ Mar. 06, 2023	Jun. 12, 2023	Conducted (TH03-HY)

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))	**3.31 dB**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**3.25 dB**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**3.81 dB**

Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power and EIRP)

<SISO Mode>
<SCS 15k>
<OA 5 Antenna>

NR n77 HPUE Maximum Average Power [dBm] (GT - LC = 2.2 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
10	1	1	PI/2 BPSK	26.42	27.22	27.32	29.86	0.9683
10	1	50		26.61	27.32	27.42		
10	25	12		26.66	27.62	27.60		
10	1	0		23.01	24.12	24.22		
10	1	51		23.02	24.10	24.26		
10	50	0		26.00	27.05	27.22		
10	1	1	QPSK	26.50	27.66	27.66		
10	1	50		26.75	27.61	27.54		
10	25	12		26.66	27.62	27.12		
10	1	0		24.00	24.22	24.23		
10	1	51		23.91	24.21	24.32		
10	50	0		25.57	26.66	26.81		
10	1	1	16-QAM	25.76	26.89	26.62	29.09	0.8110
10	1	1	64-QAM	24.35	25.02	25.12		
10	1	1	256-QAM	22.83	22.71	23.02		
Limit	EIRP < 1W			Result			Pass	

NR n77 HPUE Maximum Average Power [dBm] (GT - LC = 2.2 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
15	1	1	PI/2 BPSK	27.23	27.40	27.13	29.92	0.9817
15	1	77		27.02	27.72	27.02		
15	36	18		27.37	27.71	27.23		
15	1	0		24.02	24.33	23.02		
15	1	78		23.05	24.85	24.05		
15	75	0		26.82	27.02	26.61		
15	1	1	QPSK	27.23	27.41	26.83		
15	1	77		27.05	27.66	26.85		
15	36	18		27.05	27.58	26.85		
15	1	0		23.15	25.15	23.05		
15	1	78		23.35	24.13	23.21		
15	75	0		26.51	26.79	26.00		
15	1	1	16-QAM	26.07	27.03	25.45	29.23	0.8375
15	1	1	64-QAM	24.35	26.00	24.00		
15	1	1	256-QAM	22.52	23.15	21.85		
Limit	EIRP < 1W			Result			Pass	

NR n77 HPUE Maximum Average Power [dBm] (GT - LC = 2.2 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
20	1	1	PI/2 BPSK	26.80	27.62	27.05	29.95	0.9886
20	1	104		26.89	27.73	27.03		
20	50	25		27.02	27.71	26.92		
20	1	0		23.89	24.32	23.55		
20	1	105		23.45	24.41	23.63		
20	100	0		26.50	27.32	26.71		
20	1	1	QPSK	27.12	27.65	27.05		
20	1	104		27.02	27.75	27.05		
20	50	25		26.91	27.71	27.02		
20	1	0		24.05	24.53	23.58		
20	1	105		23.88	24.32	23.79		
20	100	0		26.02	27.03	26.05		
20	1	1	16-QAM	25.89	26.53	26.01	28.73	0.7464
20	1	1	64-QAM	24.81	25.81	24.82		
20	1	1	256-QAM	22.57	23.48	22.82		
Limit	EIRP < 1W			Result			Pass	

NR n77 HPUE Maximum Average Power [dBm] (GT - LC = 2.2 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
30	1	1	PI/2 BPSK	27.02	27.61	27.01	29.99	0.9977
30	1	158		26.75	27.72	26.90		
30	80	40		26.88	27.79	26.85		
30	1	0		23.53	25.35	23.89		
30	1	159		23.45	24.58	23.75		
30	160	0		26.55	27.45	26.55		
30	1	1	QPSK	26.90	27.67	26.75		
30	1	158		26.81	27.60	26.85		
30	80	40		27.02	27.77	27.12		
30	1	0		23.12	24.55	23.55		
30	1	159		23.55	24.61	23.79		
30	160	0		26.12	27.00	26.03		
30	1	1	16-QAM	26.51	27.70	26.52	29.90	0.9772
30	1	1	64-QAM	24.35	26.02	24.38		
30	1	1	256-QAM	22.22	23.52	22.48		
Limit	EIRP < 1W			Result			Pass	

NR n77 HPUE Maximum Average Power [dBm] (GT - LC = 2.2 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
40	1	1	PI/2 BPSK	26.72	27.75	26.90	29.98	0.9954
40	1	214		26.85	27.77	27.22		
40	108	54		26.86	27.76	27.00		
40	1	0		23.35	24.58	23.75		
40	1	215		23.55	24.69	23.72		
40	216	0		26.22	27.55	26.50		
40	1	1	QPSK	27.00	27.76	26.85		
40	1	214		27.00	27.78	27.03		
40	108	54		26.82	27.75	27.00		
40	1	0		23.55	24.66	23.55		
40	1	215		23.45	24.89	23.87		
40	216	0		26.10	27.12	26.05		
40	1	1	16-QAM	26.55	27.74	26.54	29.94	0.9863
40	1	1	64-QAM	24.45	26.00	24.55		
40	1	1	256-QAM	22.35	23.51	22.35		
Limit	EIRP < 1W			Result			Pass	

NR n77 HPUE Maximum Average Power [dBm] (GT - LC = 2.2 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
50	1	1	PI/2 BPSK	26.91	27.76	27.00	29.97	0.9931
50	1	268		27.02	27.77	27.01		
50	135	67		26.89	27.77	27.01		
50	1	0		23.54	24.66	23.55		
50	1	269		23.56	24.81	23.81		
50	270	0		26.53	27.50	26.51		
50	1	1	QPSK	27.00	27.77	27.00		
50	1	268		27.00	27.77	27.02		
50	135	67		26.82	27.76	27.00		
50	1	0		23.45	24.66	23.55		
50	1	269		23.58	24.80	23.66		
50	270	0		26.00	27.00	26.02		
50	1	1	16-QAM	26.57	27.74	26.66	29.94	0.9863
50	1	1	64-QAM	24.51	26.00	24.66		
50	1	1	256-QAM	22.25	23.45	22.55		
Limit	EIRP < 1W			Result			Pass	

<EA 1_5 Antenna>

NR n77 HPUE Maximum Average Power [dBm] (GT - LC = 4 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
10	1	1	PI/2 BPSK	25.52	25.47	25.74	29.86	0.9683
10	1	50		25.56	25.57	25.75		
10	25	12		25.70	25.72	25.86		
10	1	0		22.15	22.11	22.28		
10	1	51		22.19	22.29	22.38		
10	50	0		25.21	25.16	25.32		
10	1	1	QPSK	25.65	25.54	25.75		
10	1	50		25.65	25.69	25.81		
10	25	12		25.78	25.76	25.83		
10	1	0		22.24	22.12	22.32		
10	1	51		22.29	22.26	22.47		
10	50	0		24.67	24.65	24.84		
10	1	1	16-QAM	24.82	24.65	24.81	28.82	0.7621
10	1	1	64-QAM	23.24	23.08	23.24		
10	1	1	256-QAM	21.40	21.35	21.54		
Limit	EIRP < 1W			Result			Pass	

NR n77 HPUE Maximum Average Power [dBm] (GT - LC = 4 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
15	1	1	PI/2 BPSK	25.58	25.42	25.72	29.94	0.9863
15	1	77		25.63	25.59	25.76		
15	36	18		25.76	25.65	25.93		
15	1	0		22.13	22.08	22.43		
15	1	78		22.22	22.24	22.46		
15	75	0		25.24	25.23	25.45		
15	1	1	QPSK	25.65	25.63	25.76		
15	1	77		25.75	25.69	25.85		
15	36	18		25.76	25.69	25.94		
15	1	0		22.31	22.15	22.39		
15	1	78		22.35	22.23	22.53		
15	75	0		24.78	24.79	24.96		
15	1	1	16-QAM	24.65	24.76	24.95	28.95	0.7852
15	1	1	64-QAM	23.18	23.24	23.35		
15	1	1	256-QAM	21.54	21.37	21.65		
Limit	EIRP < 1W			Result			Pass	

NR n77 HPUE Maximum Average Power [dBm] (GT - LC = 4 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
20	1	1	PI/2 BPSK	25.75	25.61	25.79	29.93	0.9840
20	1	104		25.71	25.76	25.89		
20	50	25		25.78	25.71	25.93		
20	1	0		22.33	22.24	22.48		
20	1	105		22.32	22.38	22.54		
20	100	0		25.27	25.21	25.42		
20	1	1	QPSK	25.76	25.63	25.83		
20	1	104		25.72	25.75	25.92		
20	50	25		25.81	25.77	25.89		
20	1	0		22.42	22.24	22.54		
20	1	105		22.41	22.39	22.59		
20	100	0		24.89	24.74	24.96		
20	1	1	16-QAM	24.65	24.76	24.75	28.76	0.7516
20	1	1	64-QAM	23.27	23.36	23.53		
20	1	1	256-QAM	21.65	21.45	21.62		
Limit	EIRP < 1W			Result			Pass	

NR n77 HPUE Maximum Average Power [dBm] (GT - LC = 4 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
30	1	1	PI/2 BPSK	25.54	25.46	25.79	29.97	0.9931
30	1	158		25.62	25.67	25.84		
30	80	40		25.72	25.71	25.96		
30	1	0		22.16	22.13	22.47		
30	1	159		22.23	22.32	22.46		
30	160	0		25.16	25.21	25.49		
30	1	1	QPSK	25.65	25.58	25.87		
30	1	158		25.75	25.72	25.92		
30	80	40		25.79	25.78	25.97		
30	1	0		22.19	22.18	22.47		
30	1	159		22.35	22.39	22.56		
30	160	0		24.79	24.73	24.95		
30	1	1	16-QAM	24.92	24.79	25.01	29.01	0.7962
30	1	1	64-QAM	23.16	23.17	23.28		
30	1	1	256-QAM	21.39	21.36	21.67		
Limit	EIRP < 1W			Result			Pass	

NR n77 HPUE Maximum Average Power [dBm] (GT - LC = 4 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
40	1	1	PI/2 BPSK	25.74	25.57	25.84	29.96	0.9908
40	1	214		25.79	25.75	25.89		
40	108	54		25.78	25.74	25.86		
40	1	0		22.38	22.17	22.45		
40	1	215		22.36	22.45	22.58		
40	216	0		25.24	25.24	25.43		
40	1	1	QPSK	25.78	25.67	25.96		
40	1	214		25.86	25.84	25.95		
40	108	54		25.85	25.73	25.93		
40	1	0		22.42	22.24	22.54		
40	1	215		22.46	22.45	22.65		
40	216	0		24.82	24.71	24.92		
40	1	1	16-QAM	24.98	24.92	25.06	29.06	0.8054
40	1	1	64-QAM	23.42	23.19	23.45		
40	1	1	256-QAM	21.59	21.34	21.75		
Limit	EIRP < 1W			Result			Pass	

NR n77 HPUE Maximum Average Power [dBm] (GT - LC = 4 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
50	1	1	PI/2 BPSK	25.67	25.54	25.96	29.97	0.9931
50	1	268		25.71	25.85	25.95		
50	135	67		25.69	25.72	25.93		
50	1	0		22.31	22.24	22.57		
50	1	269		22.32	22.49	22.62		
50	270	0		25.28	25.24	25.49		
50	1	1	QPSK	25.78	25.63	25.85		
50	1	268		25.78	25.87	25.93		
50	135	67		25.76	25.74	25.97		
50	1	0		22.37	22.27	22.65		
50	1	269		22.37	22.53	22.67		
50	270	0		24.85	24.77	25.02		
50	1	1	16-QAM	24.89	24.69	25.06	29.06	0.8054
50	1	1	64-QAM	23.25	23.24	23.60		
50	1	1	256-QAM	21.54	21.39	21.72		
Limit	EIRP < 1W			Result			Pass	

<SCS 30k>
<OA 5 Antenna>

NR n77 HPUE Maximum Average Power [dBm] (GT - LC = 2.2 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
10	1	1	PI/2 BPSK	26.81	27.79	26.68	29.99	0.9977
10	1	22		26.72	27.71	26.70		
10	12	6		26.91	27.69	26.91		
10	1	0		22.91	23.91	22.72		
10	1	23		22.82	23.76	22.81		
10	24	0		26.93	27.79	26.83		
10	1	1	QPSK	26.75	27.63	26.80		
10	1	22		26.83	27.79	26.81		
10	12	6		26.93	27.79	26.91		
10	1	0		22.38	23.25	22.13		
10	1	23		22.42	22.35	22.32		
10	24	0		26.91	27.75	26.91		
10	1	1	16-QAM	26.66	27.71	26.66	29.91	0.9795
10	1	1	64-QAM	25.81	26.72	25.66		
10	1	1	256-QAM	23.33	24.33	23.22		
Limit	EIRP < 1W			Result			Pass	

NR n77 HPUE Maximum Average Power [dBm] (GT - LC = 2.2 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
15	1	1	PI/2 BPSK	26.48	27.74	26.68	29.98	0.9954
15	1	36		26.66	27.78	26.73		
15	18	9		26.72	27.71	26.87		
15	1	0		22.55	23.93	22.84		
15	1	37		22.74	23.84	22.89		
15	36	0		26.71	27.71	26.89		
15	1	1	QPSK	26.52	27.64	26.76		
15	1	36		26.71	27.75	26.79		
15	18	9		26.77	27.78	26.89		
15	1	0		22.08	23.44	22.38		
15	1	37		22.26	23.37	22.47		
15	36	0		26.74	27.75	26.91		
15	1	1	16-QAM	26.91	27.71	27.18	29.91	0.9795
15	1	1	64-QAM	25.47	26.88	25.76		
15	1	1	256-QAM	23.01	24.37	23.41		
Limit	EIRP < 1W			Result			Pass	

NR n77 HPUE Maximum Average Power [dBm] (GT - LC = 2.2 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
20	1	1	PI/2 BPSK	27.05	27.68	26.72	29.99	0.9977
20	1	49		26.79	27.79	26.81		
20	25	12		26.76	27.77	26.89		
20	1	0		22.57	23.76	22.89		
20	1	50		22.81	23.84	22.94		
20	50	0		26.71	27.72	26.88		
20	1	1	QPSK	26.55	27.71	26.71		
20	1	49		26.79	27.61	26.78		
20	25	12		26.76	27.78	26.87		
20	1	0		22.12	23.51	22.44		
20	1	50		22.36	23.42	22.52		
20	50	0		26.78	27.74	26.91		
20	1	1	16-QAM	26.88	27.79	27.12	29.99	0.9977
20	1	1	64-QAM	25.54	27.01	25.75		
20	1	1	256-QAM	23.04	24.43	23.47		
Limit	EIRP < 1W			Result			Pass	

NR n77 HPUE Maximum Average Power [dBm] (GT - LC = 2.2 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
30	1	1	PI/2 BPSK	27.75	27.67	26.93	29.99	0.9977
30	1	76		27.73	27.75	26.74		
30	36	18		27.71	27.77	26.98		
30	1	0		23.95	23.95	23.12		
30	1	77		23.94	23.95	22.99		
30	75	0		27.79	27.75	27.02		
30	1	1	QPSK	27.69	27.68	27.01		
30	1	76		27.67	27.66	26.87		
30	36	18		27.74	27.78	26.99		
30	1	0		23.49	23.51	22.64		
30	1	77		23.04	23.48	22.98		
30	75	0		27.71	27.79	27.03		
30	1	1	16-QAM	26.82	27.79	27.41	29.99	0.9977
30	1	1	64-QAM	26.87	26.87	26.83		
30	1	1	256-QAM	23.09	24.47	23.67		
Limit	EIRP < 1W			Result			Pass	

NR n77 HPUE Maximum Average Power [dBm] (GT - LC = 2.2 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
40	1	1	PI/2 BPSK	26.68	27.73	27.04	29.99	0.9977
40	1	104		26.87	27.67	26.88		
40	50	25		26.98	27.78	26.94		
40	1	0		22.75	24.06	23.78		
40	1	105		22.97	24.05	23.15		
40	100	0		26.89	27.70	26.95		
40	1	1	QPSK	26.67	27.74	27.05		
40	1	104		26.87	27.78	26.96		
40	50	25		26.99	27.75	26.95		
40	1	0		22.28	23.59	22.74		
40	1	105		22.44	23.58	22.65		
40	100	0		26.94	27.79	26.97		
40	1	1	16-QAM	25.96	27.69	27.31	29.89	0.9750
40	1	1	64-QAM	25.68	26.95	26.07		
40	1	1	256-QAM	23.23	24.47	23.71		
Limit	EIRP < 1W			Result			Pass	

NR n77 HPUE Maximum Average Power [dBm] (GT - LC = 2.2 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
50	1	1	PI/2 BPSK	26.47	27.71	27.21	29.99	0.9977
50	1	131		26.78	27.72	26.76		
50	64	32		26.95	27.70	27.08		
50	1	0		22.58	23.93	23.28		
50	1	132		22.86	23.99	22.96		
50	128	0		26.81	27.78	27.02		
50	1	1	QPSK	26.55	27.61	27.18		
50	1	131		26.85	27.66	26.85		
50	64	32		26.94	27.79	27.06		
50	1	0		22.14	23.45	22.83		
50	1	132		22.38	23.52	22.55		
50	128	0		26.84	27.74	27.01		
50	1	1	16-QAM	27.19	27.79	27.36	29.99	0.9977
50	1	1	64-QAM	25.74	26.82	26.19		
50	1	1	256-QAM	22.89	24.61	23.61		
Limit	EIRP < 1W			Result			Pass	

NR n77 HPUE Maximum Average Power [dBm] (GT - LC = 2.2 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
60	1	1	PI/2 BPSK	26.48	27.61	26.94	29.98	0.9954
60	1	160		26.74	27.65	26.76		
60	81	40		26.97	27.78	27.12		
60	1	0		22.46	23.65	23.05		
60	1	161		22.76	23.93	22.94		
60	162	0		26.82	27.76	27.01		
60	1	1	QPSK	26.45	27.62	27.03		
60	1	160		26.77	27.64	26.78		
60	81	40		26.99	27.75	27.11		
60	1	0		22.11	23.18	22.65		
60	1	161		22.43	23.47	22.47		
60	162	0		26.89	27.72	27.03		
60	1	1	16-QAM	26.88	27.75	27.27	29.95	0.9886
60	1	1	64-QAM	25.43	26.59	26.04		
60	1	1	256-QAM	22.94	24.08	23.65		
Limit	EIRP < 1W			Result			Pass	

NR n77 HPUE Maximum Average Power [dBm] (GT - LC = 2.2 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
70	1	1	PI/2 BPSK	26.45	27.55	27.05	29.99	0.9977
70	1	187		27.12	27.68	26.89		
70	90	45		26.85	27.79	27.12		
70	1	0		22.55	23.59	23.15		
70	1	188		23.18	23.98	23.11		
70	180	0		26.89	27.74	27.14		
70	1	1	QPSK	26.47	27.58	27.09		
70	1	187		27.21	27.59	26.99		
70	90	45		26.89	27.77	27.15		
70	1	0		22.03	23.07	22.73		
70	1	188		22.79	23.51	22.58		
70	180	0		26.88	27.76	27.13		
70	1	1	16-QAM	26.96	27.75	27.61	29.95	0.9886
70	1	1	64-QAM	25.44	26.55	26.08		
70	1	1	256-QAM	23.64	23.98	23.65		
Limit	EIRP < 1W			Result			Pass	

NR n77 HPUE Maximum Average Power [dBm] (GT - LC = 2.2 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
80	1	1	PI/2 BPSK	26.46	27.45	27.41	29.99	0.9977
80	1	215		27.23	27.78	26.86		
80	108	54		26.91	27.75	27.23		
80	1	0		22.52	23.47	23.46		
80	1	216		23.31	24.13	23.01		
80	216	0		26.88	27.77	27.16		
80	1	1	QPSK	26.54	27.44	27.42		
80	1	215		27.32	27.79	26.89		
80	108	54		26.95	27.76	27.25		
80	1	0		22.03	22.76	22.97		
80	1	216		22.82	23.66	22.55		
80	216	0		26.92	27.71	27.21		
80	1	1	16-QAM	26.85	27.48	27.75	29.95	0.9886
80	1	1	64-QAM	25.44	26.55	26.39		
80	1	1	256-QAM	22.91	23.88	23.98		
Limit	EIRP < 1W			Result			Pass	

NR n77 HPUE Maximum Average Power [dBm] (GT - LC = 2.2 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
90	1	1	PI/2 BPSK	26.34	27.35	27.71	29.99	0.9977
90	1	243		27.48	27.77	26.72		
90	120	60		26.86	27.79	27.24		
90	1	0		22.41	23.38	23.74		
90	1	244		23.55	24.09	22.87		
90	243	0		26.95	27.72	27.26		
90	1	1	QPSK	26.35	27.51	27.68		
90	1	243		27.55	27.78	26.73		
90	120	60		26.87	27.78	27.27		
90	1	0		21.94	23.08	23.29		
90	1	244		23.90	23.75	22.41		
90	243	0		26.00	27.76	27.29		
90	1	1	16-QAM	26.99	27.52	27.68	29.88	0.9727
90	1	1	64-QAM	25.36	26.69	26.75		
90	1	1	256-QAM	22.79	23.75	23.94		
Limit	EIRP < 1W			Result			Pass	

NR n77 HPUE Maximum Average Power [dBm] (GT - LC = 2.2 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
100	1	1	PI/2 BPSK	26.32	27.31	27.77	29.99	0.9977
100	1	271		27.46	27.78	26.87		
100	135	67		26.95	27.77	27.25		
100	1	0		22.47	23.26	23.79		
100	1	272		23.51	23.94	23.03		
100	270	0		27.01	27.73	27.31		
100	1	1	QPSK	26.40	27.48	27.71		
100	1	271		27.62	27.79	26.81		
100	135	67		26.96	27.76	27.31		
100	1	0		22.03	22.83	23.38		
100	1	272		23.09	23.48	22.53		
100	270	0		27.05	27.77	27.34		
100	1	1	16-QAM	26.74	27.74	27.78	29.98	0.9954
100	1	1	64-QAM	25.46	26.67	25.43		
100	1	1	256-QAM	22.84	23.68	23.93		
Limit	EIRP < 1W			Result			Pass	

<EA 1_5 Antenna>

NR n77 HPUE Maximum Average Power [dBm] (GT - LC = 4 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
10	1	1	PI/2 BPSK	25.40	25.43	25.51	29.75	0.9441
10	1	22		25.46	25.42	25.56		
10	12	6		25.72	25.61	25.66		
10	1	0		22.06	22.01	22.19		
10	1	23		22.05	22.09	22.21		
10	24	0		25.06	25.02	25.18		
10	1	1	QPSK	25.68	25.64	25.58		
10	1	22		25.53	25.62	25.62		
10	12	6		25.64	25.75	25.73		
10	1	0		22.08	22.11	22.13		
10	1	23		22.06	22.14	22.19		
10	24	0		24.65	24.57	24.66		
10	1	1	16-QAM	24.64	24.69	24.54	28.69	0.7396
10	1	1	64-QAM	23.19	23.15	23.05		
10	1	1	256-QAM	21.12	21.13	21.18		
Limit	EIRP < 1W			Result			Pass	

NR n77 HPUE Maximum Average Power [dBm] (GT - LC = 4 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
15	1	1	PI/2 BPSK	25.67	25.40	25.84	29.98	0.9954
15	1	36		25.64	25.45	25.84		
15	18	9		25.78	25.62	25.98		
15	1	0		22.25	22.02	22.46		
15	1	37		22.19	22.12	22.46		
15	36	0		25.27	25.03	25.48		
15	1	1	QPSK	25.76	25.46	25.85		
15	1	36		25.75	25.56	25.95		
15	18	9		25.84	25.64	25.96		
15	1	0		22.34	22.05	22.51		
15	1	37		22.35	22.18	22.45		
15	36	0		24.84	24.63	24.98		
15	1	1	16-QAM	24.94	24.51	24.98	28.98	0.7907
15	1	1	64-QAM	23.74	23.11	23.78		
15	1	1	256-QAM	21.52	21.06	21.82		
Limit	EIRP < 1W			Result			Pass	

NR n77 HPUE Maximum Average Power [dBm] (GT - LC = 4 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
20	1	1	PI/2 BPSK	25.74	25.54	25.78	29.96	0.9908
20	1	49		25.65	25.59	25.81		
20	25	12		25.85	25.74	25.92		
20	1	0		22.36	22.12	22.44		
20	1	50		22.24	22.24	22.47		
20	50	0		25.32	25.12	25.45		
20	1	1	QPSK	25.75	25.63	25.93		
20	1	49		25.72	25.67	25.89		
20	25	12		25.84	25.75	25.96		
20	1	0		22.36	22.16	22.49		
20	1	50		22.34	22.27	22.54		
20	50	0		24.98	24.74	24.97		
20	1	1	16-QAM	25.01	24.82	25.02	29.02	0.7980
20	1	1	64-QAM	23.24	23.02	23.24		
20	1	1	256-QAM	21.45	21.32	21.63		
Limit	EIRP < 1W			Result			Pass	

NR n77 HPUE Maximum Average Power [dBm] (GT - LC = 4 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
30	1	1	PI/2 BPSK	25.64	25.56	25.87	29.99	0.9977
30	1	76		25.72	25.64	25.88		
30	36	18		25.79	25.84	25.98		
30	1	0		22.15	22.15	22.54		
30	1	77		22.26	22.35	22.54		
30	75	0		25.35	25.24	25.54		
30	1	1	QPSK	25.75	25.64	25.95		
30	1	76		25.76	25.75	25.96		
30	36	18		25.83	25.81	25.99		
30	1	0		22.25	22.15	22.40		
30	1	77		22.24	22.38	22.56		
30	75	0		24.73	24.76	25.01		
30	1	1	16-QAM	24.85	24.81	25.10	29.10	0.8128
30	1	1	64-QAM	23.03	23.02	23.24		
30	1	1	256-QAM	21.45	21.35	21.65		
Limit	EIRP < 1W			Result			Pass	

NR n77 HPUE Maximum Average Power [dBm] (GT - LC = 4 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
40	1	1	PI/2 BPSK	25.73	25.58	25.84	29.98	0.9954
40	1	104		25.76	25.79	25.98		
40	50	25		25.81	25.76	25.97		
40	1	0		22.26	22.12	22.54		
40	1	105		22.42	22.36	22.56		
40	100	0		25.31	25.29	25.41		
40	1	1	QPSK	25.76	25.71	25.94		
40	1	104		25.91	25.86	25.98		
40	50	25		25.86	25.83	25.92		
40	1	0		22.46	22.25	22.54		
40	1	105		22.43	22.49	22.64		
40	100	0		24.87	24.74	24.98		
40	1	1	16-QAM	25.02	24.83	25.06	29.06	0.8054
40	1	1	64-QAM	23.24	23.25	23.82		
40	1	1	256-QAM	21.54	21.35	21.75		
Limit	EIRP < 1W			Result			Pass	

NR n77 HPUE Maximum Average Power [dBm] (GT - LC = 4 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
50	1	1	PI/2 BPSK	25.63	25.56	25.87	29.97	0.9931
50	1	131		25.74	25.76	25.93		
50	64	32		25.79	25.83	25.96		
50	1	0		22.24	22.09	22.47		
50	1	132		22.25	22.45	22.59		
50	128	0		25.24	25.24	25.53		
50	1	1	QPSK	25.73	25.59	25.94		
50	1	131		25.85	25.87	25.97		
50	64	32		25.84	25.82	25.92		
50	1	0		22.34	22.19	22.51		
50	1	132		22.35	22.50	22.62		
50	128	0		24.75	24.79	25.03		
50	1	1	16-QAM	24.78	24.39	25.01	29.01	0.7962
50	1	1	64-QAM	23.65	23.13	23.78		
50	1	1	256-QAM	21.56	21.47	21.73		
Limit	EIRP < 1W			Result			Pass	

NR n77 HPUE Maximum Average Power [dBm] (GT - LC = 4 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
60	1	1	PI/2 BPSK	25.63	25.37	25.87	29.98	0.9954
60	1	160		25.65	25.76	25.93		
60	81	40		25.92	25.86	25.98		
60	1	0		22.14	21.98	22.28		
60	1	161		22.19	22.32	22.45		
60	162	0		25.27	25.26	25.42		
60	1	1	QPSK	25.73	25.43	25.81		
60	1	160		25.77	25.78	25.94		
60	81	40		25.92	25.83	25.97		
60	1	0		22.25	21.96	22.35		
60	1	161		22.25	22.39	22.47		
60	162	0		24.88	24.74	24.95		
60	1	1	16-QAM	24.82	24.49	24.83	28.83	0.7638
60	1	1	64-QAM	23.58	23.32	23.60		
60	1	1	256-QAM	21.43	21.22	21.54		
Limit	EIRP < 1W			Result			Pass	

NR n77 HPUE Maximum Average Power [dBm] (GT - LC = 4 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
70	1	1	PI/2 BPSK	25.49	25.35	25.56	29.92	0.9817
70	1	187		25.48	25.66	25.70		
70	90	45		25.74	25.75	25.87		
70	1	0		22.12	21.93	22.23		
70	1	188		22.09	22.32	22.45		
70	180	0		25.18	25.24	25.38		
70	1	1	QPSK	25.67	25.45	25.64		
70	1	187		25.59	25.72	25.82		
70	90	45		25.74	25.82	25.92		
70	1	0		22.14	22.93	22.24		
70	1	188		22.25	22.29	22.41		
70	180	0		24.67	24.72	24.87		
70	1	1	16-QAM	24.75	24.62	24.72	28.75	0.7499
70	1	1	64-QAM	23.49	23.36	23.35		
70	1	1	256-QAM	21.25	21.24	21.52		
Limit	EIRP < 1W			Result			Pass	

NR n77 HPUE Maximum Average Power [dBm] (GT - LC = 4 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
80	1	1	PI/2 BPSK	25.46	23.24	25.65	29.98	0.9954
80	1	215		25.49	25.72	25.87		
80	108	54		25.82	25.78	25.98		
80	1	0		22.09	21.92	22.26		
80	1	216		22.12	22.35	22.54		
80	216	0		25.19	25.18	25.42		
80	1	1	QPSK	25.65	25.35	25.78		
80	1	215		25.64	25.77	25.98		
80	108	54		25.86	25.82	25.96		
80	1	0		22.16	21.98	22.27		
80	1	216		22.17	22.36	22.54		
80	216	0		24.73	24.65	24.98		
80	1	1	16-QAM	24.65	24.54	24.76	28.76	0.7516
80	1	1	64-QAM	23.42	23.35	23.65		
80	1	1	256-QAM	21.35	21.17	21.45		
Limit	EIRP < 1W			Result			Pass	

NR n77 HPUE Maximum Average Power [dBm] (GT - LC = 4 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
90	1	1	PI/2 BPSK	25.43	25.27	25.65	29.98	0.9954
90	1	243		25.55	25.68	25.78		
90	120	60		25.71	25.75	25.96		
90	1	0		22.13	21.82	22.24		
90	1	244		22.17	22.31	22.54		
90	243	0		25.11	25.16	25.42		
90	1	1	QPSK	25.59	25.46	25.75		
90	1	243		25.62	25.84	25.92		
90	120	60		25.70	25.74	25.98		
90	1	0		22.06	21.95	22.25		
90	1	244		22.16	22.41	22.49		
90	243	0		24.68	24.75	25.01		
90	1	1	16-QAM	24.68	24.45	24.78	28.78	0.7551
90	1	1	64-QAM	23.65	23.35	23.34		
90	1	1	256-QAM	21.25	21.13	21.35		
Limit	EIRP < 1W			Result			Pass	

NR n77 HPUE Maximum Average Power [dBm] (GT - LC = 4 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
100	1	1	PI/2 BPSK	25.42	25.13	25.36	29.82	0.9594
100	1	271		23.35	25.56	25.56		
100	135	67		25.62	25.56	25.75		
100	1	0		22.04	21.83	21.95		
100	1	272		22.02	22.21	22.28		
100	270	0		25.02	25.01	25.17		
100	1	1	QPSK	25.56	25.34	25.55		
100	1	271		25.49	25.58	25.64		
100	135	67		25.67	25.68	25.82		
100	1	0		22.05	21.79	22.01		
100	1	272		22.07	22.28	22.28		
100	270	0		24.56	24.55	24.75		
100	1	1	16-QAM	24.43	24.27	24.37	28.43	0.6966
100	1	1	64-QAM	23.09	22.78	22.92		
100	1	1	256-QAM	21.09	20.85	21.02		
Limit	EIRP < 1W			Result			Pass	

<MIMO Mode>
<SCS 15k>

Part27O NR n77 HPUE Maximum Average Power [dBm], DG = 2.2 dBi														
BW	RB	RB	Mod	Antenna OA5			Antenna OA6			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
10	1	1	QPSK	24.40	24.15	24.25	22.72	22.35	22.76	26.65	26.30	26.55	28.91	0.7780
10	1	50		24.46	24.29	24.41	22.75	22.54	22.85	26.63	26.51	26.71		
10	26	13		24.45	24.22	24.42	22.61	22.32	22.63	26.62	26.35	26.61		
10	1	0		19.90	19.75	19.85	18.21	17.85	18.24	22.12	21.90	22.18		
10	1	51		19.87	20.00	20.08	18.20	18.50	18.41	22.11	22.12	22.39		
10	52	0		22.43	22.27	22.42	20.71	20.42	20.68	24.63	24.41	24.65		
10	1	1	16-QAM	24.23	24.00	24.17	22.87	22.25	22.61	26.55	26.14	26.45	28.75	0.7499
10	1	1	64-QAM	22.15	21.90	22.16	20.79	20.30	20.57	20.78	24.12	24.46		
10	1	1	256-QAM	19.22	18.92	19.12	17.43	17.00	17.42	21.35	21.00	21.30		
Limit	EIRP < 1W			Result									Pass	

Part27O NR n77 HPUE Maximum Average Power [dBm], DG = 2.2 dBi														
BW	RB	RB	Mod	Antenna OA5			Antenna OA6			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
15	1	1	QPSK	24.13	24.12	24.15	23.00	22.78	22.68	26.61	26.63	26.48	28.89	0.7745
15	1	77		24.15	24.15	24.45	23.15	23.11	22.78	26.69	26.66	26.62		
15	39	19		24.35	24.35	24.45	22.94	22.93	22.63	26.67	26.67	26.60		
15	1	0		19.82	19.83	19.85	18.59	18.61	18.15	22.25	22.25	22.08		
15	1	78		19.83	20.82	20.00	18.75	18.68	18.32	22.28	22.27	22.25		
15	79	0		22.35	22.35	22.42	20.95	22.00	20.57	24.66	24.68	24.58		
15	1	1	16-QAM	24.01	24.00	24.02	22.78	22.79	22.58	26.41	26.42	26.35	28.62	0.7278
15	1	1	64-QAM	22.02	22.00	22.14	21.00	21.00	20.50	24.58	24.50	24.38		
15	1	1	256-QAM	18.90	18.95	18.93	17.52	17.45	17.26	21.27	21.28	21.20		
Limit	EIRP < 1W			Result									Pass	

Part27O NR n77 HPUE Maximum Average Power [dBm], DG = 2.2 dBi														
BW	RB	RB	Mod	Antenna OA5			Antenna OA6			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
20	1	1	QPSK	24.50	24.32	24.43	22.63	22.31	23.00	26.82	26.50	26.90	29.21	0.8337
20	1	104		24.53	24.42	24.70	22.81	22.91	23.41	26.72	26.81	27.01		
20	53	26		24.51	24.38	24.51	22.62	22.67	23.23	26.70	26.62	26.90		
20	1	0		20.22	20.12	20.12	19.25	18.12	18.71	22.45	22.31	22.45		
20	1	105		20.12	20.22	20.32	19.31	19.66	19.00	22.35	22.52	22.71		
20	106	0		22.42	22.32	22.45	20.83	20.81	21.32	24.71	24.62	24.91		
20	1	1	16-QAM	24.35	24.32	24.12	22.91	22.62	23.33	26.71	26.41	26.82	29.02	0.7980
20	1	1	64-QAM	22.35	22.22	22.23	20.71	20.32	20.81	24.63	24.32	24.72		
20	1	1	256-QAM	18.91	18.71	18.91	17.22	17.00	17.62	21.23	21.00	21.28		
Limit	EIRP < 1W			Result									Pass	

Part27O NR n77 HPUE Maximum Average Power [dBm], DG = 2.2 dBi														
BW	RB	RB	Mod	Antenna OA5			Antenna OA6			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
30	1	1	QPSK	24.71	24.50	24.52	22.72	22.23	23.10	26.84	26.52	26.88	29.26	0.8433
30	1	158		24.66	24.60	24.72	22.91	22.82	23.25	26.88	26.81	27.06		
30	80	40		24.71	24.53	24.71	22.85	22.72	23.22	26.89	26.73	27.04		
30	1	0		20.20	20.12	20.32	18.22	17.82	18.45	22.33	22.13	22.50		
30	1	159		20.12	20.22	20.32	18.52	18.51	18.85	22.40	22.46	22.66		
30	160	0		22.71	22.57	22.67	20.82	20.72	21.22	24.88	24.75	25.02		
30	1	1	16-QAM	24.48	24.32	24.25	22.82	22.32	23.00	26.74	26.44	26.68	28.94	0.7834
30	1	1	64-QAM	22.52	22.25	22.32	20.61	20.22	20.85	24.68	24.36	24.66		
30	1	1	256-QAM	19.20	19.25	18.95	17.30	16.82	17.53	21.36	21.21	21.31		
Limit	EIRP < 1W			Result									Pass	

Part27O NR n77 HPUE Maximum Average Power [dBm], DG = 2.2 dBi														
BW	RB	RB	Mod	Antenna OA5			Antenna OA6			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
40	1	1	QPSK	24.82	24.56	24.62	22.72	22.33	23.00	26.91	26.60	26.90	29.46	0.8831
40	1	214		24.75	24.70	25.00	23.00	23.00	23.35	26.97	26.94	27.26		
40	108	54		24.66	24.61	24.71	22.72	22.65	23.22	26.81	26.75	27.04		
40	1	0		20.50	20.33	20.44	18.30	18.00	18.72	22.55	22.33	22.67		
40	1	215		20.55	20.51	20.52	18.55	18.45	19.00	22.67	22.61	22.84		
40	216	0		22.62	22.71	22.71	20.72	20.62	21.32	24.78	24.80	25.08		
40	1	1	16-QAM	24.71	24.35	24.35	22.90	22.45	23.35	26.91	26.51	26.89	29.11	0.8147
40	1	1	64-QAM	22.71	22.45	22.51	20.68	20.33	20.91	24.82	24.53	24.79		
40	1	1	256-QAM	19.33	19.35	19.22	17.35	17.33	17.82	21.46	21.47	21.59		
Limit	EIRP < 1W			Result									Pass	

Part27O NR n77 HPUE Maximum Average Power [dBm], DG = 2.2 dBi														
BW	RB	RB	Mod	Antenna OA5			Antenna OA6			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
50	1	1	QPSK	24.82	24.66	24.75	22.82	22.33	23.15	26.94	26.66	27.03	29.38	0.8670
50	1	268		24.82	24.85	24.90	22.85	22.91	23.30	26.96	27.00	27.18		
50	135	67		24.72	24.61	24.62	22.82	22.71	23.10	26.88	26.77	26.94		
50	1	0		20.42	20.25	20.22	18.32	17.91	18.72	22.51	22.25	22.54		
50	1	269		20.62	20.61	20.50	18.42	18.52	19.00	22.67	22.70	22.82		
50	270	0		22.71	22.62	22.72	20.81	20.71	21.22	24.87	24.78	25.04		
50	1	1	16-QAM	24.61	24.32	24.35	22.90	22.45	23.32	26.85	26.50	26.88	29.08	0.8091
50	1	1	64-QAM	22.71	22.57	22.45	20.73	20.23	21.20	24.84	24.57	24.88		
50	1	1	256-QAM	19.33	19.00	19.23	17.35	17.00	17.82	21.46	21.12	21.59		
Limit	EIRP < 1W			Result									Pass	

Part27O NR n77 HPUE Maximum Average Power [dBm], DG = 4 dBi														
BW	RB	RB	Mod	Antenna EA 1_5			Antenna EA 3_6			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
10	1	1	QPSK	22.57	22.35	22.65	22.17	22.45	22.65	25.38	25.41	25.66	29.79	0.9528
10	1	50		22.61	22.56	22.78	22.24	22.44	22.73	25.44	25.51	25.77		
10	26	13		22.74	22.63	22.84	22.26	22.50	22.72	25.52	25.58	25.79		
10	1	0		19.10	18.93	19.19	18.61	18.92	19.24	21.87	21.94	22.23		
10	1	51		19.18	19.08	19.33	18.81	19.05	19.44	22.01	22.08	22.40		
10	52	0		21.74	21.71	21.82	21.25	21.50	21.89	24.51	24.62	24.87		
10	1	1	16-QAM	22.84	22.81	22.88	22.14	22.34	22.62	25.51	25.59	25.76	29.76	0.9462
10	1	1	64-QAM	21.62	21.47	21.62	21.24	21.65	21.95	24.44	24.57	24.80		
10	1	1	256-QAM	18.27	18.24	18.42	17.65	17.95	18.42	20.98	21.11	21.43		
Limit	EIRP < 1W			Result									Pass	

Part27O NR n77 HPUE Maximum Average Power [dBm], DG = 4 dBi														
BW	RB	RB	Mod	Antenna EA 1_5			Antenna EA 3_6			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
15	1	1	QPSK	22.58	22.42	22.79	22.19	22.42	22.75	25.40	25.43	25.78	29.88	0.9727
15	1	77		22.65	22.51	22.84	22.32	22.48	22.87	25.50	25.51	25.87		
15	39	19		22.83	22.65	22.92	22.28	22.54	22.82	25.57	25.61	25.88		
15	1	0		19.15	19.01	19.27	18.56	18.91	19.35	21.88	21.97	22.32		
15	1	78		19.16	19.08	19.45	18.84	19.04	19.50	22.01	22.07	22.49		
15	79	0		21.78	21.71	21.97	21.28	21.53	21.98	24.55	24.63	24.99		
15	1	1	16-QAM	22.91	22.81	23.01	22.15	22.35	22.64	25.56	25.60	25.84	29.84	0.9638
15	1	1	64-QAM	21.62	21.54	21.74	21.35	21.65	22.06	24.50	24.61	24.91		
15	1	1	256-QAM	18.48	18.32	18.45	17.82	18.05	18.46	21.17	21.20	21.47		
Limit	EIRP < 1W			Result									Pass	

Part27O NR n77 HPUE Maximum Average Power [dBm], DG = 4 dBi														
BW	RB	RB	Mod	Antenna EA 1_5			Antenna EA 3_6			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
20	1	1	QPSK	22.71	22.41	22.82	22.27	22.61	22.81	25.51	25.52	25.83	29.90	0.9772
20	1	104		22.75	22.62	22.88	22.47	22.47	22.89	25.62	25.56	25.90		
20	53	26		22.80	22.64	22.84	22.31	22.46	22.80	25.57	25.56	25.83		
20	1	0		19.30	19.05	19.38	18.76	19.04	19.43	22.05	22.06	22.42		
20	1	105		19.25	19.21	19.43	18.98	19.15	19.64	22.13	22.19	22.55		
20	106	0		21.87	21.69	21.95	21.32	21.48	21.94	24.61	24.60	24.96		
20	1	1	16-QAM	23.13	22.65	23.01	22.25	22.56	22.76	25.72	25.62	25.90	29.90	0.9772
20	1	1	64-QAM	21.70	21.43	21.76	21.45	21.87	22.11	24.59	24.67	24.95		
20	1	1	256-QAM	18.54	18.18	18.53	17.75	18.17	18.51	21.17	21.19	21.53		
Limit	EIRP < 1W			Result									Pass	

Part27O NR n77 HPUE Maximum Average Power [dBm], DG = 4 dBi														
BW	RB	RB	Mod	Antenna EA 1_5			Antenna EA 3_6			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
30	1	1	QPSK	22.62	22.38	22.77	22.15	22.56	22.88	25.40	25.48	25.84	29.96	0.9908
30	1	158		22.62	22.51	22.82	22.59	22.68	23.04	25.62	25.61	25.94		
30	80	40		22.75	22.67	22.88	22.36	22.65	23.01	25.57	25.67	25.96		
30	1	0		19.11	19.02	19.34	18.67	19.08	19.43	21.91	22.06	22.40		
30	1	159		19.12	19.21	19.45	19.13	19.17	19.65	22.14	22.20	22.56		
30	160	0		21.75	21.62	21.92	21.36	21.69	22.04	24.57	24.67	24.99		
30	1	1	16-QAM	22.79	22.69	23.14	22.24	22.54	22.74	25.53	25.63	25.95	29.95	0.9886
30	1	1	64-QAM	21.54	21.45	21.81	21.40	21.78	22.14	24.48	24.63	24.99		
30	1	1	256-QAM	18.32	18.18	18.57	17.75	18.15	18.56	21.05	21.18	21.58		
Limit	EIRP < 1W			Result									Pass	

Part27O NR n77 HPUE Maximum Average Power [dBm], DG = 4 dBi														
BW	RB	RB	Mod	Antenna EA 1_5			Antenna EA 3_6			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
40	1	1	QPSK	22.75	22.93	22.85	22.32	22.91	22.92	25.55	25.93	25.90	29.97	0.9931
40	1	214		22.73	22.94	22.91	22.60	22.98	23.01	25.68	25.97	25.97		
40	108	54		22.76	22.93	22.85	22.46	22.94	22.94	25.62	25.95	25.91		
40	1	0		19.35	19.45	19.54	18.84	19.45	19.42	22.11	22.46	22.49		
40	1	215		19.35	19.43	19.48	19.15	19.73	19.75	22.26	22.59	22.63		
40	216	0		21.84	21.91	21.95	21.51	22.04	21.94	24.69	24.99	24.96		
40	1	1	16-QAM	22.98	23.02	23.04	22.45	22.92	22.86	25.73	25.98	25.96	29.98	0.9954
40	1	1	64-QAM	21.79	21.92	21.79	21.58	22.14	22.17	24.70	25.04	24.99		
40	1	1	256-QAM	18.25	18.63	18.69	18.65	18.54	18.62	21.46	21.60	21.67		
Limit	EIRP < 1W			Result									Pass	

Part27O NR n77 HPUE Maximum Average Power [dBm], DG = 4 dBi														
BW	RB	RB	Mod	Antenna EA 1_5			Antenna EA 3_6			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
50	1	1	QPSK	22.73	22.53	22.98	22.36	22.62	22.86	25.56	25.59	25.93	29.98	0.9954
50	1	268		22.71	22.72	22.92	22.92	22.61	23.02	25.83	25.68	25.98		
50	135	67		22.79	22.73	22.94	22.52	22.71	22.98	25.67	25.73	25.97		
50	1	0		19.27	19.14	19.51	18.81	19.15	19.45	22.06	22.16	22.49		
50	1	269		19.27	19.32	19.56	19.35	19.14	19.77	22.32	22.24	22.68		
50	270	0		21.75	21.72	21.95	21.48	21.68	22.06	24.63	24.71	25.02		
50	1	1	16-QAM	22.96	22.85	23.01	22.48	22.64	22.89	25.74	25.76	25.96	29.96	0.9908
50	1	1	64-QAM	21.69	21.54	21.85	21.45	21.85	22.25	24.58	24.71	25.06		
50	1	1	256-QAM	18.54	18.33	18.63	17.96	18.15	18.55	21.27	21.25	21.60		
Limit	EIRP < 1W			Result									Pass	

<SCS 30k>

Part27O NR n77 HPUE Maximum Average Power [dBm], DG = 2.2 dBi														
BW	RB	RB	Mod	Antenna OA5			Antenna OA6			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
10	1	1	QPSK	24.12	23.89	23.98	23.59	23.27	24.03	26.87	26.60	27.02	29.38	0.8670
10	1	22		24.07	23.92	24.09	23.59	23.45	24.16	26.85	26.70	27.14		
10	12	6		24.13	23.85	24.18	23.59	23.41	24.16	26.88	26.65	27.18		
10	1	0		19.65	19.45	19.64	19.12	18.92	19.64	22.40	22.20	22.65		
10	1	23		19.65	19.51	19.79	19.05	19.06	19.71	22.37	22.30	22.76		
10	24	0		22.22	22.08	22.24	21.64	21.49	22.17	24.95	24.81	25.22		
10	1	1	16-QAM	24.65	24.57	24.59	23.45	23.33	24.04	27.10	27.00	27.33	29.53	0.8974
10	1	1	64-QAM	22.24	21.96	22.20	21.45	21.23	21.99	24.87	24.62	25.11		
10	1	1	256-QAM	19.00	18.78	18.87	18.31	18.12	18.81	21.68	21.47	21.85		
Limit	EIRP < 1W			Result									Pass	

Part27O NR n77 HPUE Maximum Average Power [dBm], DG = 2.2 dBi														
BW	RB	RB	Mod	Antenna OA5			Antenna OA6			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
15	1	1	QPSK	24.31	24.18	23.53	23.60	23.74	24.40	26.98	26.98	27.00	29.35	0.8610
15	1	36		24.29	24.17	23.66	23.71	24.02	24.53	27.02	27.11	27.13		
15	19	9		24.37	24.10	23.60	23.90	23.86	24.41	27.15	26.99	27.03		
15	1	0		19.85	19.70	19.04	19.46	19.36	19.89	22.67	22.54	22.50		
15	1	37		19.84	19.60	19.16	19.48	19.65	20.28	22.67	22.64	22.77		
15	38	0		22.42	22.18	21.70	22.00	21.94	22.45	25.23	25.07	25.10		
15	1	1	16-QAM	23.95	23.71	23.19	23.94	23.70	24.31	26.96	26.72	26.80	29.16	0.8241
15	1	1	64-QAM	22.45	22.25	21.66	21.90	21.81	22.38	25.19	25.05	25.05		
15	1	1	256-QAM	18.70	18.47	17.98	18.20	17.88	18.59	21.47	21.20	21.31		
Limit	EIRP < 1W			Result									Pass	

Part27O NR n77 HPUE Maximum Average Power [dBm], DG = 2.2 dBi														
BW	RB	RB	Mod	Antenna OA5			Antenna OA6			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
20	1	1	QPSK	24.57	24.39	23.74	23.79	23.67	24.33	27.21	27.06	27.06	29.46	0.8831
20	1	49		24.60	24.33	23.90	23.87	24.04	24.52	27.26	27.20	27.23		
20	25	12		24.29	24.06	23.60	23.95	23.88	24.45	27.13	26.98	27.06		
20	1	0		19.97	19.85	19.14	19.52	19.33	19.97	22.76	22.61	22.59		
20	1	50		20.00	19.76	19.31	19.54	19.61	20.12	22.79	22.70	22.74		
20	51	0		22.44	22.25	21.70	22.01	21.91	22.44	25.24	25.09	25.10		
20	1	1	16-QAM	24.47	24.31	23.64	23.78	23.54	24.22	27.15	26.95	26.95	29.35	0.8610
20	1	1	64-QAM	22.34	22.06	21.60	21.97	21.79	22.41	25.17	24.94	25.03		
20	1	1	256-QAM	18.68	18.52	17.91	18.35	18.04	18.76	21.53	21.30	21.37		
Limit	EIRP < 1W			Result									Pass	

Part27O NR n77 HPUE Maximum Average Power [dBm], DG = 2.2 dBi														
BW	RB	RB	Mod	Antenna OA5			Antenna OA6			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
30	1	1	QPSK	24.64	24.57	23.58	23.78	23.62	24.21	27.24	27.13	26.92	29.63	0.9183
30	1	76		24.72	24.42	23.82	24.10	24.06	24.51	27.43	27.25	27.19		
30	39	19		24.50	24.35	23.54	24.00	23.79	24.12	27.27	27.09	26.85		
30	1	0		20.05	20.04	19.00	19.47	19.25	19.85	22.78	22.67	22.46		
30	1	77		20.23	20.00	19.31	19.75	19.71	20.13	23.01	22.87	22.75		
30	78	0		22.53	22.41	21.61	22.01	21.81	22.31	25.29	25.13	24.98		
30	1	1	16-QAM	24.55	24.52	23.58	23.78	23.61	24.04	27.19	27.10	26.83	29.39	0.8690
30	1	1	64-QAM	22.45	22.23	21.52	21.85	21.65	22.25	25.17	24.96	24.91		
30	1	1	256-QAM	18.82	18.67	17.81	18.31	17.94	18.60	21.58	21.33	21.23		
Limit	EIRP < 1W			Result									Pass	

Part27O NR n77 HPUE Maximum Average Power [dBm], DG = 2.2 dBi														
BW	RB	RB	Mod	Antenna OA5			Antenna OA6			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
40	1	1	QPSK	24.74	24.68	23.75	23.96	23.61	24.35	27.38	27.19	27.07	29.83	0.9616
40	1	104		24.95	24.52	24.05	24.27	24.15	24.61	27.63	27.35	27.35		
40	53	26		24.41	24.29	23.61	24.00	23.77	24.32	27.22	27.05	26.99		
40	1	0		20.12	20.19	19.23	19.52	19.29	20.00	22.84	22.77	22.64		
40	1	105		20.39	20.00	19.50	19.93	19.81	20.27	23.18	22.92	22.91		
40	106	0		22.58	22.43	21.74	22.06	21.83	22.34	25.34	25.15	25.06		
40	1	1	16-QAM	24.65	24.65	23.74	23.85	23.48	24.22	27.28	27.11	27.00	29.48	0.8872
40	1	1	64-QAM	22.51	22.43	21.66	21.93	21.72	22.49	25.24	25.10	25.11		
40	1	1	256-QAM	18.87	18.79	17.95	18.39	18.02	18.76	21.65	21.43	21.38		
Limit	EIRP < 1W			Result									Pass	

Part27O NR n77 HPUE Maximum Average Power [dBm], DG = 2.2 dBi														
BW	RB	RB	Mod	Antenna OA5			Antenna OA6			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
50	1	1	QPSK	24.72	24.75	23.80	23.99	23.79	24.38	27.38	27.31	27.11	29.88	0.9727
50	1	131		25.06	24.50	24.02	24.24	24.12	24.59	27.68	27.32	27.32		
50	67	33		24.51	24.34	23.63	24.07	23.81	24.32	27.31	27.09	27.00		
50	1	0		20.15	20.26	19.19	19.55	19.38	20.04	22.87	22.85	22.65		
50	1	132		20.56	19.96	19.48	19.96	19.78	20.22	23.28	22.88	22.88		
50	133	0		22.64	22.47	21.75	22.12	21.89	22.32	25.40	25.20	25.05		
50	1	1	16-QAM	24.71	24.72	23.65	23.86	23.55	24.22	27.32	27.18	26.95	29.52	0.8954
50	1	1	64-QAM	24.67	22.45	21.65	23.81	21.80	22.49	27.27	25.15	25.10		
50	1	1	256-QAM	18.87	18.83	18.00	18.37	18.06	18.75	21.64	21.47	21.40		
Limit	EIRP < 1W			Result									Pass	

Part27O NR n77 HPUE Maximum Average Power [dBm], DG = 2.2 dBi														
BW	RB	RB	Mod	Antenna OA5			Antenna OA6			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
60	1	1	QPSK	24.50	24.63	23.73	23.70	23.60	24.25	27.13	27.16	27.01	29.66	0.9247
60	1	160		24.86	24.28	24.00	24.00	24.00	24.50	27.46	27.15	27.27		
60	81	40		24.54	24.35	23.70	24.07	23.85	24.32	27.32	27.12	27.03		
60	1	0		20.00	20.12	19.18	19.40	19.35	19.91	22.72	22.76	22.57		
60	1	161		20.35	19.80	19.42	19.62	19.53	20.14	23.01	22.68	22.81		
60	162	0		22.60	22.41	21.75	22.10	21.84	22.38	25.37	25.14	25.09		
60	1	1	16-QAM	24.52	24.60	23.70	23.67	23.48	24.08	27.13	27.09	26.90	29.33	0.8570
60	1	1	64-QAM	22.32	22.40	21.59	21.79	21.81	22.45	25.07	25.13	25.05		
60	1	1	256-QAM	18.70	18.81	17.90	18.19	18.00	18.60	21.46	21.43	21.27		
Limit	EIRP < 1W			Result									Pass	

Part27O NR n77 HPUE Maximum Average Power [dBm], DG = 2.2 dBi														
BW	RB	RB	Mod	Antenna OA5			Antenna OA6			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
70	1	1	QPSK	24.52	24.68	23.73	23.60	23.67	24.22	27.09	27.21	26.99	29.62	0.9162
70	1	187		24.88	24.13	24.00	23.72	23.76	24.45	27.35	26.96	27.24		
70	95	47		24.71	24.35	23.77	24.08	23.85	24.38	27.42	27.12	27.10		
70	1	0		20.00	20.03	19.12	19.31	19.42	19.83	22.68	22.75	22.50		
70	1	188		20.35	19.52	19.42	19.45	19.38	20.09	22.93	22.46	22.78		
70	189	0		22.71	22.34	21.84	22.02	21.87	22.35	25.39	25.12	25.11		
70	1	1	16-QAM	24.45	24.41	23.46	23.67	23.57	24.03	27.09	27.02	26.76	29.29	0.8492
70	1	1	64-QAM	22.41	22.34	21.63	21.75	21.90	23.38	25.10	25.14	25.60		
70	1	1	256-QAM	18.70	18.75	17.87	18.08	18.05	18.51	21.41	21.42	21.21		
Limit	EIRP < 1W			Result									Pass	

Part27O NR n77 HPUE Maximum Average Power [dBm], DG = 2.2 dBi														
BW	RB	RB	Mod	Antenna OA5			Antenna OA6			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
80	1	1	QPSK	24.36	24.49	23.97	23.19	23.12	23.24	26.82	26.87	26.63	29.45	0.8810
80	1	215		24.77	24.23	24.61	23.29	23.08	23.59	27.10	26.70	27.14		
80	109	54		24.72	24.52	24.26	23.69	23.31	23.57	27.25	26.97	26.94		
80	1	0		19.92	20.04	19.46	18.83	18.81	18.81	22.42	22.48	22.16		
80	1	216		20.22	19.81	20.09	18.93	18.72	19.24	22.63	22.31	22.70		
80	217	0		22.66	22.55	22.33	21.64	21.34	21.57	25.19	25.00	24.98		
80	1	1	16-QAM	24.35	24.61	23.99	23.27	23.33	23.39	26.85	27.03	26.71	29.23	0.8375
80	1	1	64-QAM	22.15	22.32	21.85	21.32	21.28	21.32	24.77	24.84	24.60		
80	1	1	256-QAM	18.72	18.85	18.26	17.76	17.58	17.76	21.28	21.27	21.03		
Limit	EIRP < 1W			Result									Pass	

Part27O NR n77 HPUE Maximum Average Power [dBm], DG = 2.2 dBi														
BW	RB	RB	Mod	Antenna OA5			Antenna OA6			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
90	1	1	QPSK	24.19	24.17	23.66	23.41	23.30	23.13	26.83	26.77	26.41	29.44	0.8790
90	1	243		24.62	24.00	24.34	23.66	23.22	23.71	27.18	26.64	27.05		
90	123	61		24.73	24.54	24.21	23.67	23.38	23.55	27.24	27.01	26.90		
90	1	0		19.75	19.81	19.35	18.80	18.80	18.64	22.31	22.34	22.02		
90	1	244		20.26	19.75	20.08	19.11	18.81	19.19	22.73	22.32	22.67		
90	245	0		22.71	22.52	22.20	21.67	21.40	21.43	25.23	25.01	24.84		
90	1	1	16-QAM	24.15	24.35	23.84	23.29	23.33	23.15	26.75	26.88	26.52	29.08	0.8091
90	1	1	64-QAM	22.32	22.35	22.00	21.46	21.53	21.50	24.92	24.97	24.77		
90	1	1	256-QAM	18.95	18.90	18.36	18.00	17.68	17.49	21.51	21.34	20.96		
Limit	EIRP < 1W			Result									Pass	

Part27O NR n77 HPUE Maximum Average Power [dBm], DG = 2.2 dBi														
BW	RB	RB	Mod	Antenna OA5			Antenna OA6			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
100	1	1	QPSK	23.95	23.78	23.24	22.99	23.14	23.35	26.51	26.48	26.31	29.22	0.8356
100	1	271		24.45	23.37	23.71	23.53	23.50	24.00	27.02	26.45	26.87		
100	137	68		20.24	24.07	23.48	19.17	23.50	23.85	22.75	26.80	26.68		
100	1	0		19.62	19.32	18.92	18.62	19.02	18.90	22.16	22.18	21.92		
100	1	272		20.23	19.12	19.42	19.16	19.10	19.67	22.74	22.12	22.56		
100	273	0		22.43	22.02	21.47	21.40	21.46	21.72	24.96	24.76	24.61		
100	1	1	16-QAM	24.32	24.16	23.62	22.71	23.02	23.16	26.60	26.64	26.41	28.84	0.7656
100	1	1	64-QAM	22.38	22.05	21.45	21.43	21.40	21.45	24.94	24.75	24.46		
100	1	1	256-QAM	18.56	18.18	17.89	17.65	17.75	17.83	21.14	20.98	20.87		
Limit	EIRP < 1W			Result									Pass	

Part27O NR n77 HPUE Maximum Average Power [dBm], DG = 4 dBi														
BW	RB	RB	Mod	Antenna EA 1_5			Antenna EA 3_6			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
10	1	1	QPSK	22.85	22.78	22.84	22.32	22.49	22.75	25.60	25.65	25.81	29.89	0.9750
10	1	22		22.87	22.72	22.98	22.35	22.54	22.78	25.63	25.64	25.89		
10	12	6		22.86	22.82	22.96	22.54	22.51	22.78	25.71	25.68	25.88		
10	1	0		19.27	19.14	19.32	18.95	19.05	19.35	22.12	22.11	22.35		
10	1	23		19.28	19.24	19.35	18.88	18.92	19.30	22.09	22.09	22.34		
10	24	0		21.82	21.88	21.95	21.54	21.57	21.87	24.69	24.74	24.92		
10	1	1	16-QAM	22.75	22.73	22.92	22.35	22.45	22.72	25.56	25.60	25.83	29.83	0.9616
10	1	1	64-QAM	21.78	21.72	21.95	21.32	21.43	21.83	24.57	24.59	24.90		
10	1	1	256-QAM	18.35	18.29	18.56	18.15	18.24	18.54	21.26	21.28	21.56		
Limit	EIRP < 1W			Result									Pass	

Part27O NR n77 HPUE Maximum Average Power [dBm], DG = 4 dBi														
BW	RB	RB	Mod	Antenna EA 1_5			Antenna EA 3_6			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
15	1	1	QPSK	22.95	22.78	23.02	22.35	22.45	22.82	25.67	25.63	25.93	29.98	0.9954
15	1	36		22.98	22.89	23.01	22.52	22.45	22.85	25.77	25.69	25.94		
15	19	9		22.84	22.85	22.96	22.76	22.62	22.98	25.81	25.75	25.98		
15	1	0		19.32	19.19	19.45	18.92	18.98	19.35	22.13	22.10	22.41		
15	1	37		19.25	19.24	19.54	18.92	18.86	19.45	22.10	22.06	22.51		
15	38	0		21.83	21.77	22.02	21.63	21.57	22.01	24.74	24.68	25.03		
15	1	1	16-QAM	22.72	22.72	23.01	22.36	22.45	22.75	25.55	25.60	25.89	29.89	0.9750
15	1	1	64-QAM	21.85	21.84	21.02	21.35	21.45	21.98	24.62	24.66	24.54		
15	1	1	256-QAM	18.36	18.24	18.56	18.18	18.25	18.68	21.28	21.26	21.63		
Limit	EIRP < 1W			Result									Pass	

Part27O NR n77 HPUE Maximum Average Power [dBm], DG = 4 dBi														
BW	RB	RB	Mod	Antenna EA 1_5			Antenna EA 3_6			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
20	1	1	QPSK	22.86	22.65	22.98	22.54	22.54	22.82	25.71	25.61	25.91	29.91	0.9795
20	1	49		22.81	22.83	22.92	22.57	22.43	22.82	25.70	25.64	25.88		
20	25	12		22.84	22.76	22.80	22.56	22.42	22.85	25.71	25.60	25.84		
20	1	0		19.32	19.20	19.45	19.05	19.02	19.41	22.20	22.12	22.44		
20	1	50		19.35	19.34	19.40	19.05	18.92	19.42	22.21	22.15	22.42		
20	51	0		21.92	21.89	22.01	21.63	21.56	21.96	24.79	24.74	25.00		
20	1	1	16-QAM	22.81	22.62	22.95	22.45	22.48	22.85	25.64	25.56	25.91	29.91	0.9795
20	1	1	64-QAM	21.82	21.73	22.03	21.45	21.45	21.95	24.65	24.60	25.00		
20	1	1	256-QAM	18.51	18.29	18.65	18.32	18.24	18.50	21.43	21.28	21.59		
Limit	EIRP < 1W			Result									Pass	

Part27O NR n77 HPUE Maximum Average Power [dBm], DG = 4 dBi														
BW	RB	RB	Mod	Antenna EA 1_5			Antenna EA 3_6			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
30	1	1	QPSK	22.68	22.68	22.95	22.62	22.63	22.97	25.66	25.67	25.97	29.97	0.9931
30	1	76		22.72	22.81	22.89	22.85	22.69	23.02	25.80	25.76	25.97		
30	39	19		21.84	21.82	22.02	21.68	21.65	22.15	24.77	24.75	25.10		
30	1	0		19.21	19.11	19.45	19.02	19.15	19.52	22.13	22.14	22.50		
30	1	77		19.24	19.34	19.52	19.21	19.18	19.65	22.24	22.27	22.60		
30	78	0		21.84	21.82	22.06	21.68	21.68	22.10	24.77	24.76	25.09		
30	1	1	16-QAM	22.72	22.54	23.01	22.35	22.62	22.82	25.55	25.59	25.93	29.93	0.9840
30	1	1	64-QAM	21.65	21.55	21.84	21.58	21.85	22.12	24.63	24.71	24.99		
30	1	1	256-QAM	18.32	18.32	18.65	18.04	18.15	18.64	21.19	21.25	21.66		
Limit	EIRP < 1W			Result									Pass	

Part27O NR n77 HPUE Maximum Average Power [dBm], DG = 4 dBi														
BW	RB	RB	Mod	Antenna EA 1_5			Antenna EA 3_6			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
40	1	1	QPSK	22.98	22.81	22.98	22.52	22.72	22.92	25.77	25.78	25.96	29.99	0.9977
40	1	104		23.02	22.98	22.98	22.84	22.73	22.98	25.94	25.87	25.99		
40	53	26		22.83	22.75	22.90	22.79	22.69	22.97	25.82	25.73	25.95		
40	1	0		19.43	19.30	19.57	19.18	19.25	19.52	22.32	22.29	22.56		
40	1	105		19.45	19.48	19.53	19.43	19.25	19.77	22.45	22.38	22.66		
40	106	0		21.92	21.87	21.90	21.77	21.78	22.02	24.86	24.84	24.97		
40	1	1	16-QAM	22.75	22.77	22.90	22.62	22.74	22.92	25.70	25.77	25.92	29.92	0.9817
40	1	1	64-QAM	22.05	21.72	22.02	21.65	21.65	21.98	24.86	24.70	25.01		
40	1	1	256-QAM	18.65	18.35	18.65	18.45	18.53	18.75	21.56	21.45	21.71		
Limit	EIRP < 1W			Result									Pass	

Part27O NR n77 HPUE Maximum Average Power [dBm], DG = 4 dBi														
BW	RB	RB	Mod	Antenna EA 1_5			Antenna EA 3_6			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
50	1	1	QPSK	22.99	22.81	23.01	22.48	22.69	22.91	25.75	25.76	25.97	29.98	0.9954
50	1	131		22.98	23.05	22.96	22.96	22.68	22.98	25.98	25.88	25.98		
50	67	33		22.82	22.83	22.98	22.75	22.71	22.96	25.80	25.78	25.98		
50	1	0		19.32	19.24	19.55	19.10	19.19	19.42	22.22	22.23	22.50		
50	1	132		19.34	19.53	19.65	19.48	19.24	19.67	22.42	22.40	22.67		
50	133	0		21.79	21.81	22.07	21.84	21.74	22.09	24.83	24.79	25.09		
50	1	1	16-QAM	22.81	22.63	22.98	22.47	22.68	22.96	25.65	25.67	25.98	29.98	0.9954
50	1	1	64-QAM	21.92	21.86	22.16	21.49	21.65	21.92	24.72	24.77	25.05		
50	1	1	256-QAM	18.41	18.25	18.68	18.38	18.42	18.67	21.41	21.35	21.69		
Limit	EIRP < 1W			Result									Pass	

Part27O NR n77 HPUE Maximum Average Power [dBm], DG = 4 dBi														
BW	RB	RB	Mod	Antenna EA 1_5			Antenna EA 3_6			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
60	1	1	QPSK	22.62	22.65	22.93	22.54	22.46	22.59	25.59	25.57	25.77	29.99	0.9977
60	1	160		23.05	22.92	22.99	22.59	22.59	22.96	25.84	25.77	25.99		
60	81	40		22.86	22.82	22.98	22.72	22.75	22.94	25.80	25.80	25.97		
60	1	0		18.98	19.07	19.35	19.06	19.05	19.12	22.03	22.07	22.25		
60	1	161		19.37	19.38	19.45	19.03	19.04	19.58	22.21	22.22	22.53		
60	162	0		21.76	21.74	22.03	21.68	21.68	21.94	24.73	24.72	25.00		
60	1	1	16-QAM	22.49	22.58	22.85	22.46	22.45	22.76	25.49	25.53	25.82	29.82	0.9594
60	1	1	64-QAM	21.61	21.56	21.97	21.52	21.54	21.62	24.58	24.56	24.81		
60	1	1	256-QAM	18.18	18.18	18.45	18.32	18.34	18.44	21.26	21.27	21.46		
Limit	EIRP < 1W			Result									Pass	

Part27O NR n77 HPUE Maximum Average Power [dBm], DG = 4 dBi														
BW	RB	RB	Mod	Antenna EA 1_5			Antenna EA 3_6			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
70	1	1	QPSK	22.73	22.54	22.86	22.51	22.64	22.54	25.63	25.60	25.71	29.99	0.9977
70	1	187		22.71	22.75	23.02	22.92	22.64	22.94	25.83	25.71	25.99		
70	95	47		22.78	22.81	22.95	22.87	22.74	22.80	25.84	25.79	25.89		
70	1	0		19.05	18.95	19.27	18.95	19.06	19.02	22.01	22.02	22.16		
70	1	188		19.25	19.36	19.42	19.28	19.05	19.62	22.28	22.22	22.53		
70	189	0		21.72	21.68	21.95	21.80	21.66	21.98	24.77	24.68	24.98		
70	1	1	16-QAM	22.65	22.46	22.81	22.45	22.51	22.59	25.56	25.50	25.71	29.71	0.9354
70	1	1	64-QAM	21.74	21.45	21.20	21.56	21.81	21.56	24.66	24.64	24.39		
70	1	1	256-QAM	18.35	18.08	18.36	18.15	18.06	18.34	21.26	21.08	21.36		
Limit	EIRP < 1W			Result									Pass	

Part27O NR n77 HPUE Maximum Average Power [dBm], DG = 4 dBi														
BW	RB	RB	Mod	Antenna EA 1_5			Antenna EA 3_6			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
80	1	1	QPSK	22.90	22.64	22.86	22.81	22.57	22.62	25.87	25.62	25.75	29.98	0.9954
80	1	215		22.87	22.98	22.96	22.84	22.54	22.94	25.87	25.78	25.96		
80	109	54		22.81	22.82	23.08	22.92	22.76	22.86	25.88	25.80	25.98		
80	1	0		19.21	19.02	19.25	18.92	18.99	18.94	22.08	22.02	22.11		
80	1	216		19.22	19.35	19.49	19.26	19.05	19.64	22.25	22.21	22.58		
80	217	0		21.83	21.76	21.98	21.81	21.65	21.96	24.83	24.72	24.98		
80	1	1	16-QAM	22.75	22.45	22.78	22.42	22.55	22.56	25.60	25.51	25.68	29.68	0.9290
80	1	1	64-QAM	21.87	21.57	21.96	21.46	21.52	21.58	24.68	24.56	24.78		
80	1	1	256-QAM	18.25	18.03	18.35	18.26	18.35	18.25	21.27	21.20	21.31		
Limit	EIRP < 1W			Result									Pass	

Part27O NR n77 HPUE Maximum Average Power [dBm], DG = 4 dBi														
BW	RB	RB	Mod	Antenna EA 1_5			Antenna EA 3_6			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
90	1	1	QPSK	22.72	22.56	22.78	22.45	22.57	22.57	25.60	25.58	25.69	29.98	0.9954
90	1	243		22.86	22.87	23.01	22.91	22.66	22.92	25.90	25.78	25.98		
90	123	61		22.81	22.82	23.02	22.86	22.75	22.92	25.85	25.80	25.98		
90	1	0		19.17	18.92	19.28	18.91	19.12	18.98	22.05	22.03	22.14		
90	1	244		19.32	19.48	19.54	19.26	19.05	19.50	22.30	22.28	22.53		
90	245	0		21.74	21.72	22.06	21.76	21.81	21.95	24.76	24.78	25.02		
90	1	1	16-QAM	22.65	22.41	22.76	22.34	22.57	22.53	25.51	25.50	25.66	29.66	0.9247
90	1	1	64-QAM	21.72	21.45	21.92	21.35	21.82	21.58	24.55	24.65	24.76		
90	1	1	256-QAM	18.31	18.13	18.38	18.28	18.07	18.29	21.31	21.11	21.35		
Limit	EIRP < 1W			Result									Pass	

Part27O NR n77 HPUE Maximum Average Power [dBm], DG = 4 dBi														
BW	RB	RB	Mod	Antenna EA 1_5			Antenna EA 3_6			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
100	1	1	QPSK	22.71	22.44	22.69	22.56	22.62	22.45	25.65	25.54	25.58	29.99	0.9977
100	1	271		22.72	22.84	22.91	22.77	22.67	23.01	25.76	25.77	25.97		
100	137	68		22.84	22.82	23.01	22.98	22.77	22.94	25.92	25.81	25.99		
100	1	0		19.13	19.01	19.15	19.05	19.07	18.95	22.10	22.05	22.06		
100	1	272		19.22	19.53	19.42	19.35	19.17	19.72	22.30	22.36	22.58		
100	273	0		21.75	21.75	21.95	21.82	21.72	21.93	24.80	24.75	24.95		
100	1	1	16-QAM	22.63	22.38	22.72	22.42	22.41	22.35	25.54	25.41	25.55	29.55	0.9016
100	1	1	64-QAM	21.65	21.51	21.59	21.48	21.48	21.59	24.58	24.51	24.60		
100	1	1	256-QAM	18.29	18.07	18.36	18.24	18.32	17.95	21.28	21.21	21.17		
Limit	EIRP < 1W			Result									Pass	

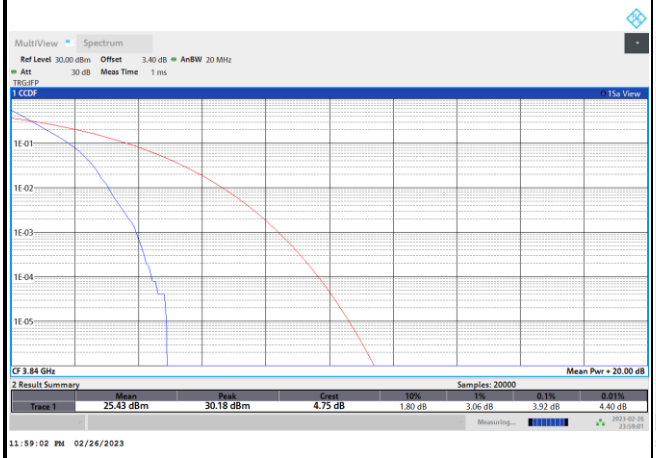
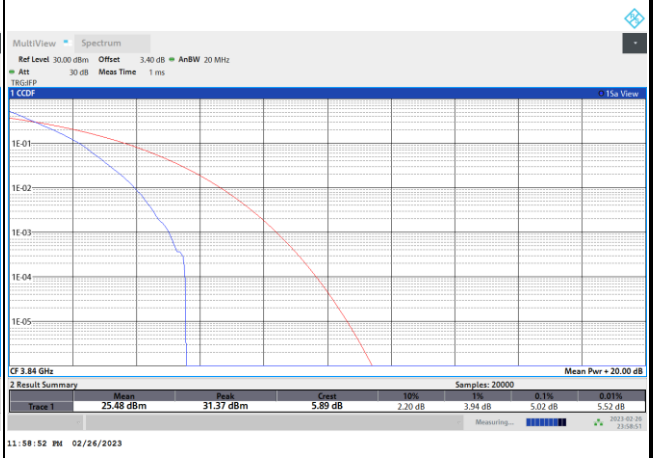
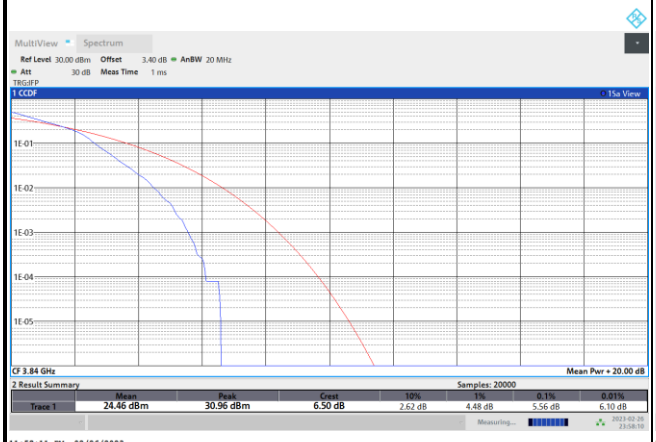
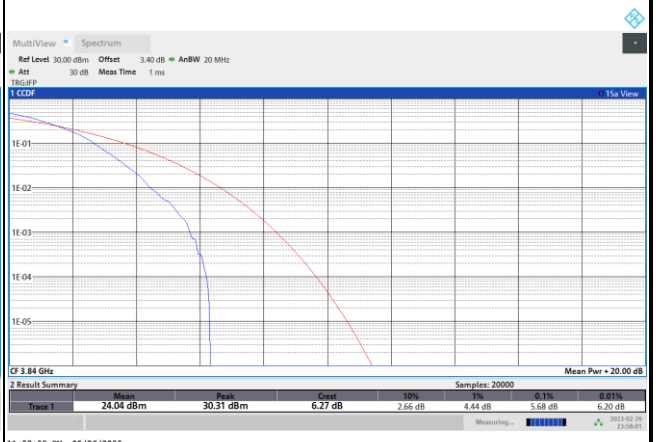
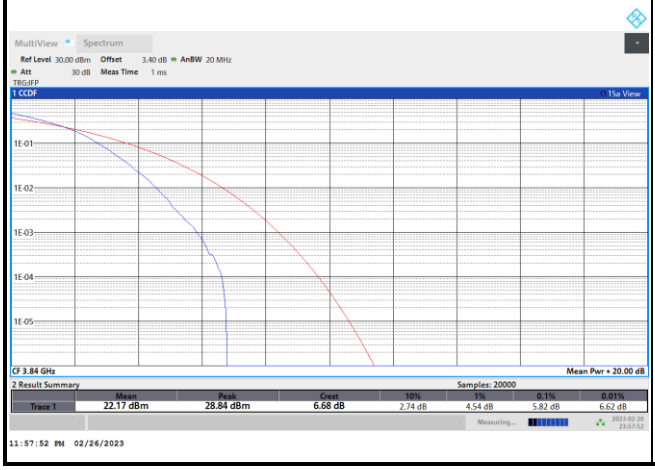
FR1 n77_HPUE

<SISO Mode>

<OA 5 Antenna>

Peak-to-Average Ratio

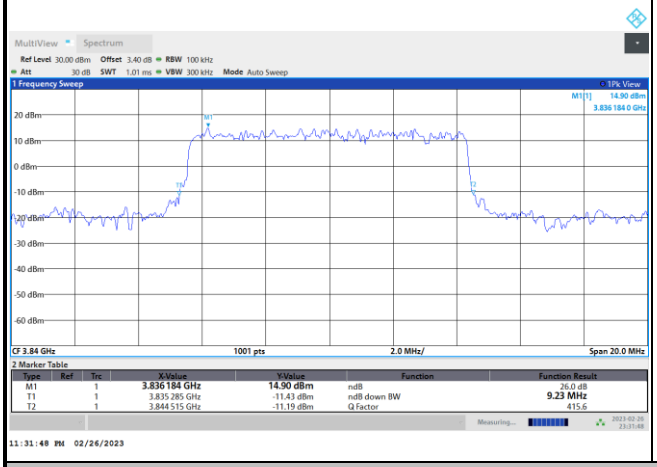
Mode	FR1 n77 / 20MHz / DFT-S OFDM				
Mod.	PI/2 BPSK	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	3.92	5.02	5.56	5.68	PASS
Mode	FR1 n77 / 20MHz / DFT-S OFDM				
Mod.	256QAM				Limit: 13dB
RB Size	Full RB				Result
Middle CH	5.82				PASS

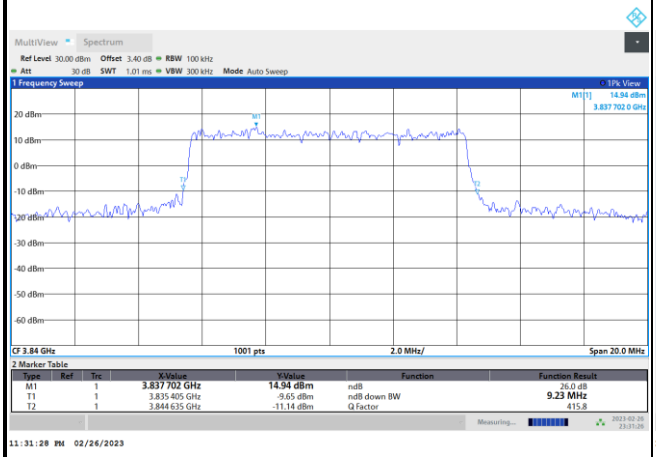
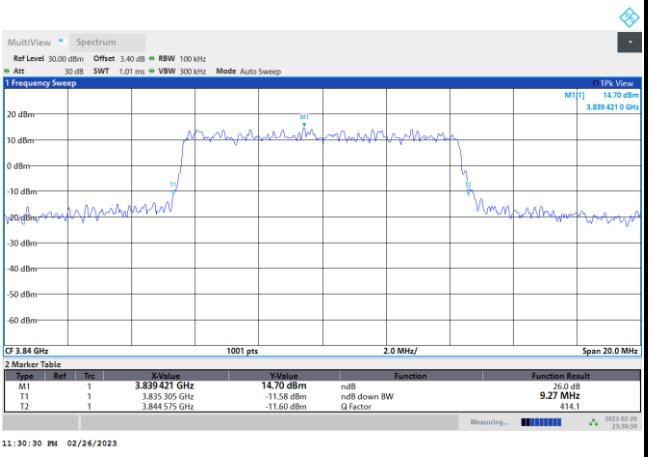
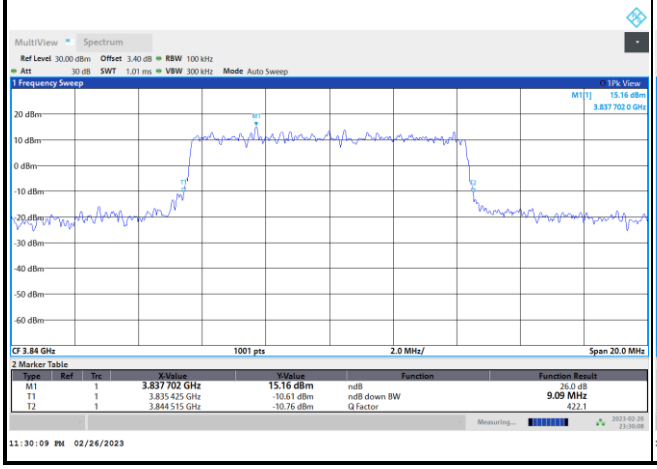
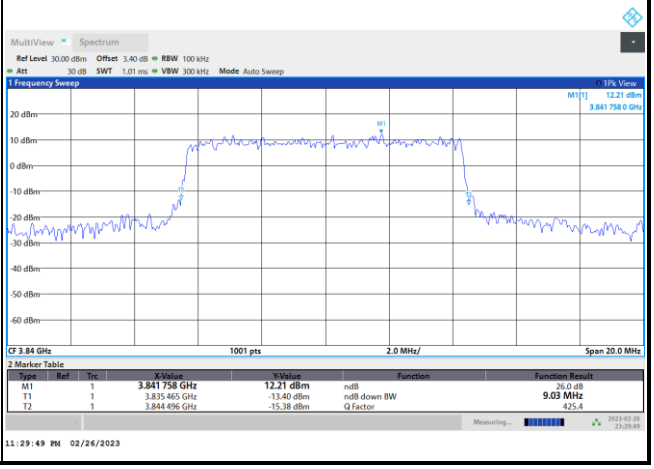
FR1 n77 / 20MHz / DFT-S OFDM / Middle Channel / Full RB	
PI/2 BPSK	QPSK
	
16QAM	64QAM
	
256QAM	
	

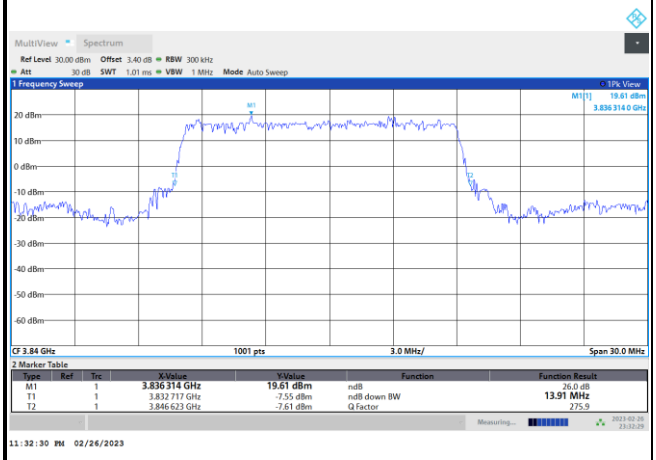
26dB Bandwidth

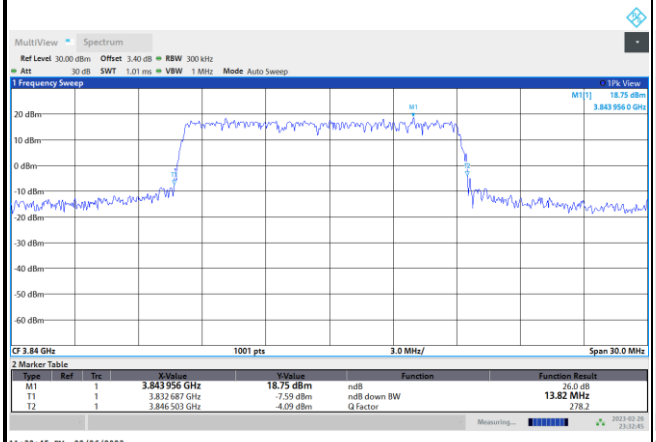
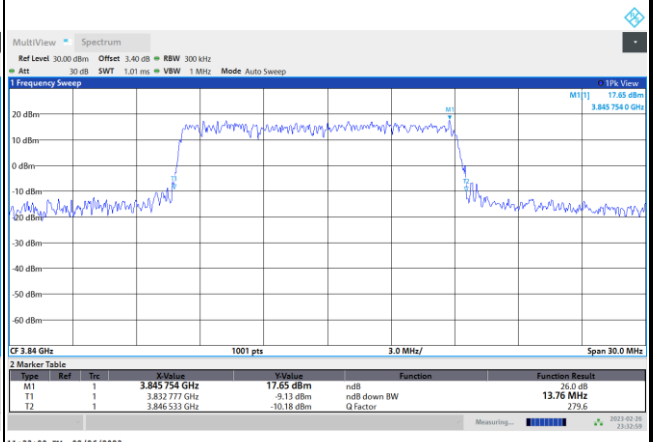
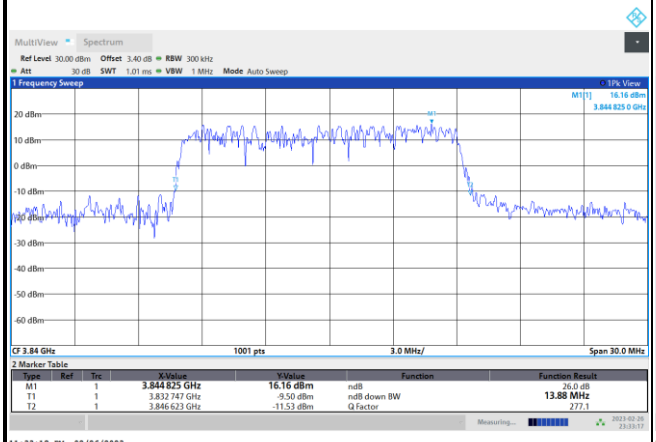
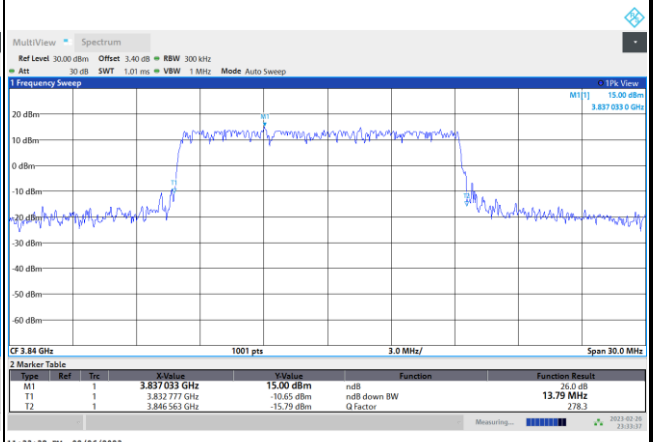
Mode	FR1 n77 : 26dB BW(MHz) / DFT-S OFDM							
BW	10MHz	15MHz	20MHz	25MHz	30MHz	40MHz	50MHz	60MHz
Mod.	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK
Middle CH	9.23	13.91	18.94	-	28.29	38.28	48.45	60.66
BW	70MHz	80MHz	90MHz	100MHz				
Mod.	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK				
Middle CH	67.27	80.40	89.91	99.30				

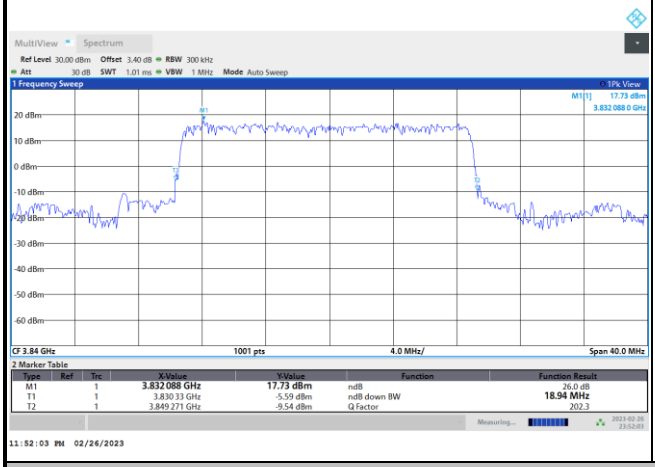
Mode	FR1 n77 : 26dB BW(MHz) / CP OFDM							
BW	10MHz		15MHz		20MHz		25MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	9.23	9.27	13.82	13.76	19.22	19.54	-	-
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	9.09	9.03	13.88	13.79	19.26	19.14	-	-
BW	30MHz		40MHz		50MHz		60MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	29.01	29.13	40.60	40.52	50.65	50.15	60.90	60.66
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	28.77	28.95	40.68	40.52	50.15	50.05	60.54	60.78
BW	70MHz		80MHz		90MHz		100MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	70.63	70.63	80.56	80.56	90.99	90.63	100.70	100.70
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	70.49	70.35	80.24	80.40	90.63	90.27	101.10	100.70

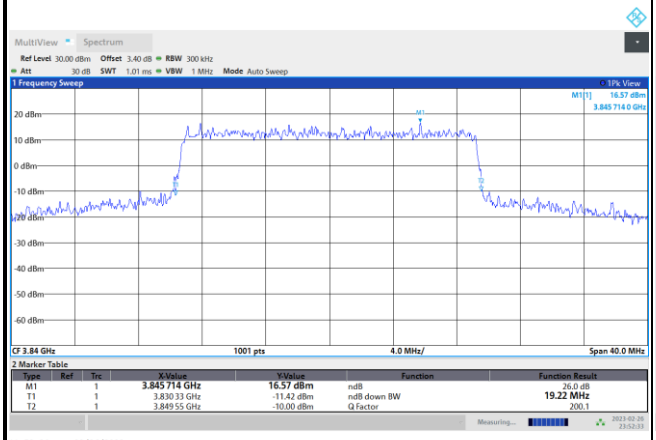
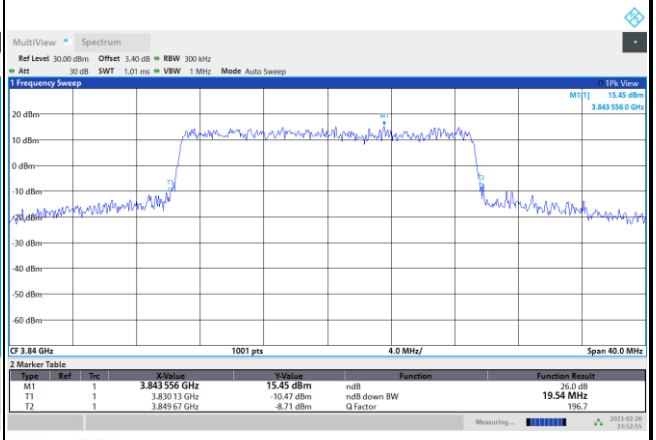
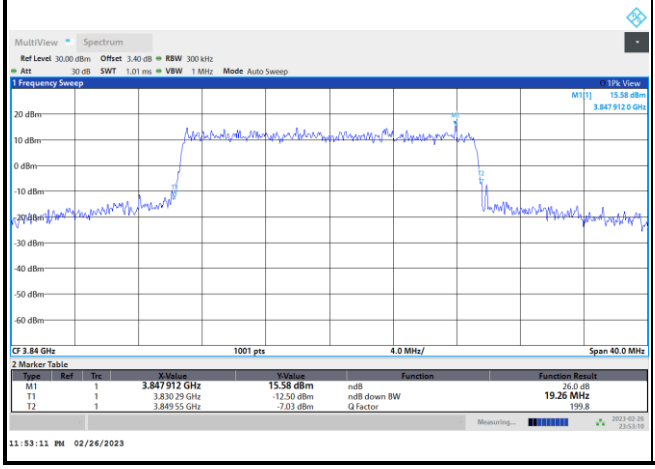
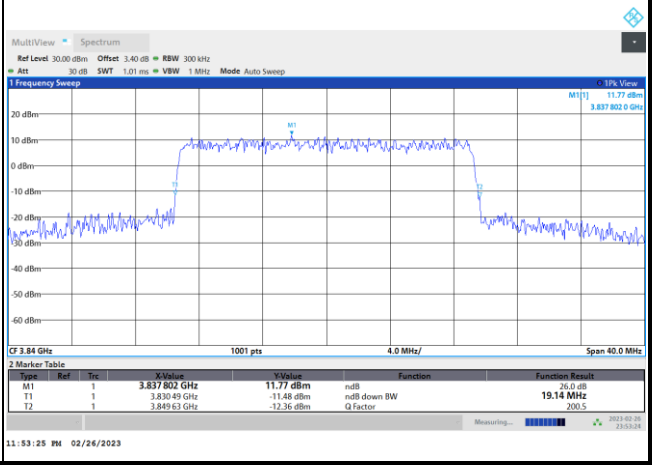
FR1 n77 / 10MHz / DFT-S OFDM / Middle Channel / Full RB	
PI/2 BPSK	
	

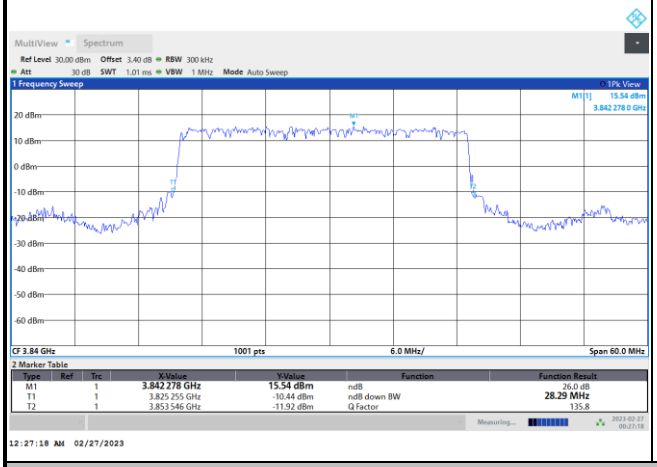
FR1 n77 / 10MHz / CP OFDM / Middle Channel / Full RB	
QPSK	16QAM
	
64QAM	256QAM
	

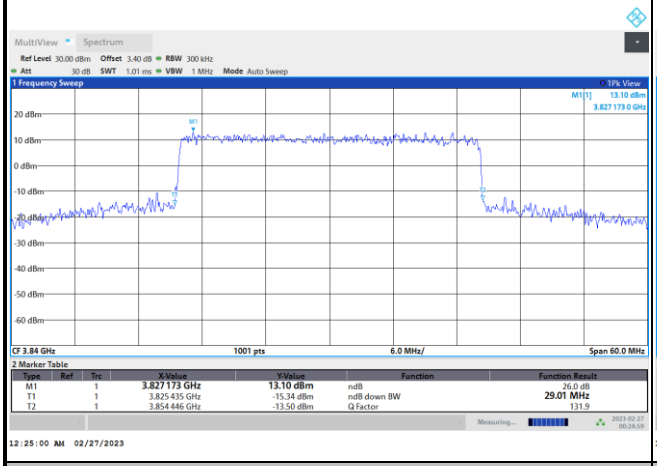
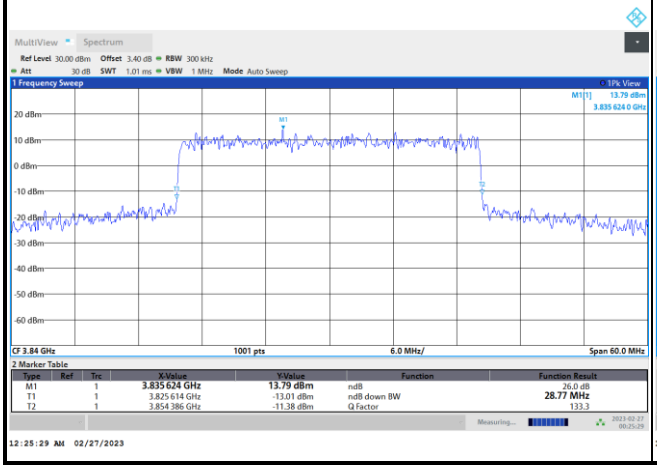
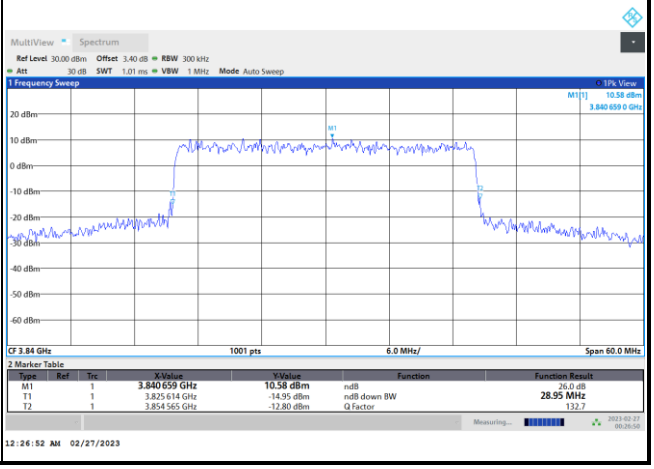
FR1 n77 / 15MHz / DFT-S OFDM / Middle Channel / Full RB	
PI/2 BPSK	
	

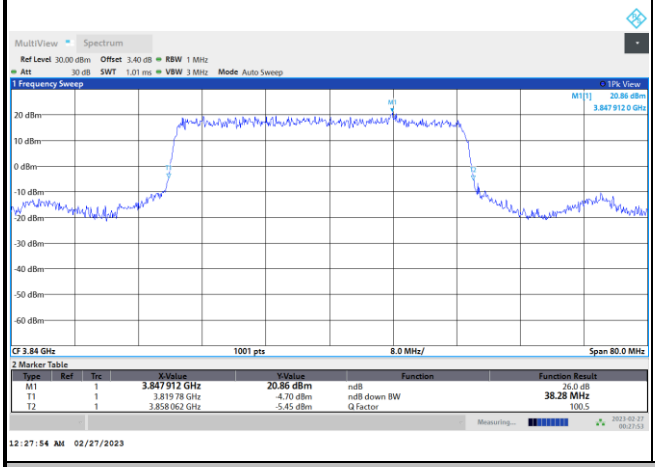
FR1 n77 / 15MHz / CP OFDM / Middle Channel / Full RB	
QPSK	16QAM
	
64QAM	256QAM
	

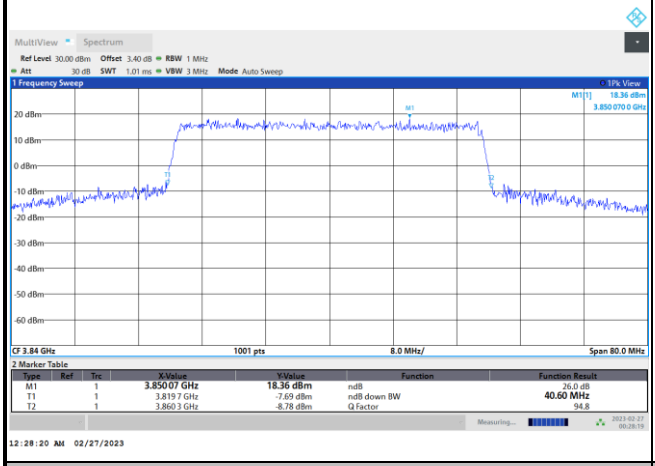
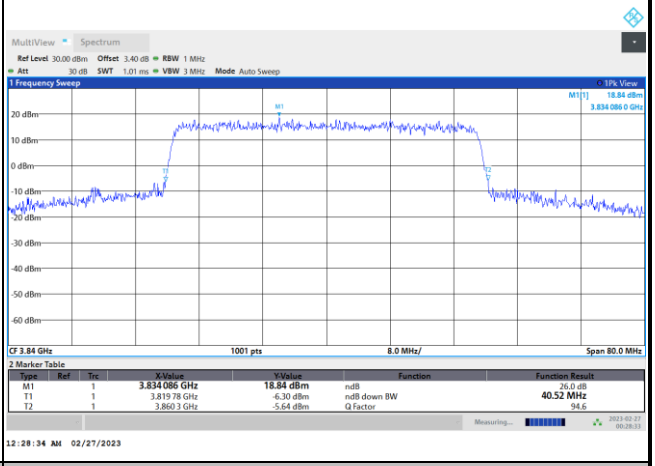
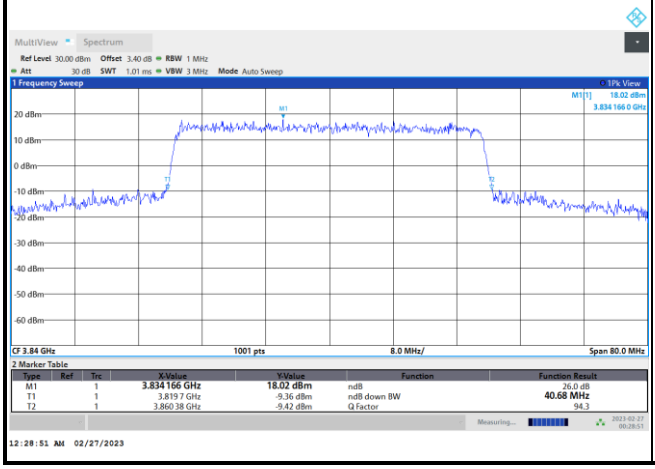
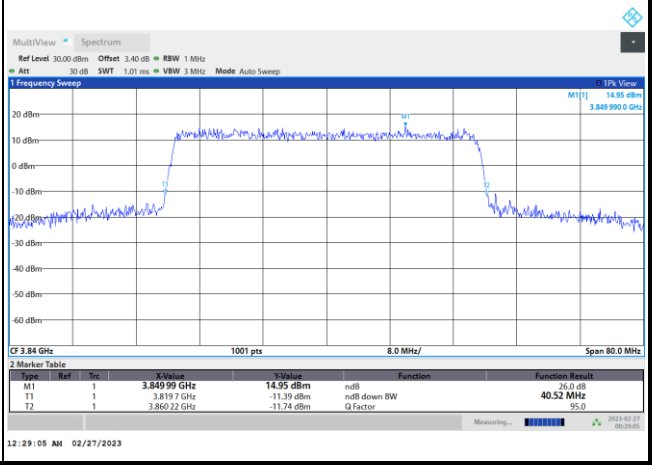
FR1 n77 / 20MHz / DFT-S OFDM / Middle Channel / Full RB	
PI/2 BPSK	
	

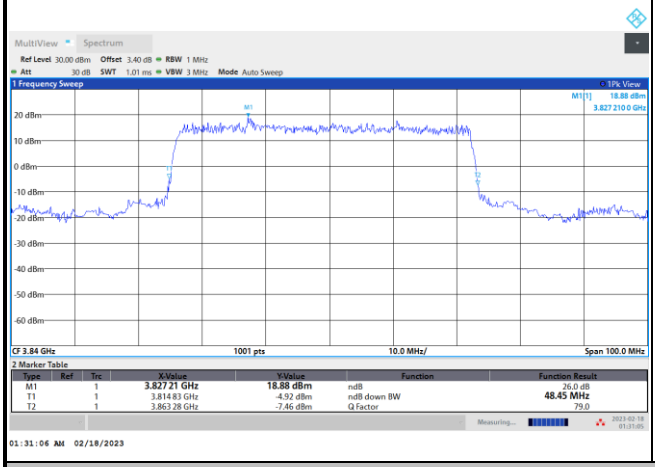
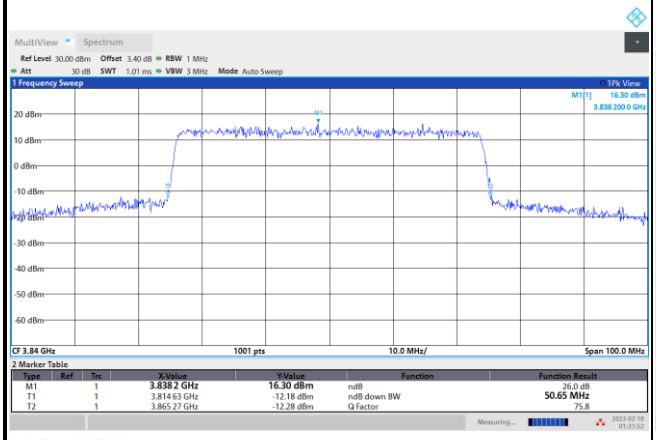
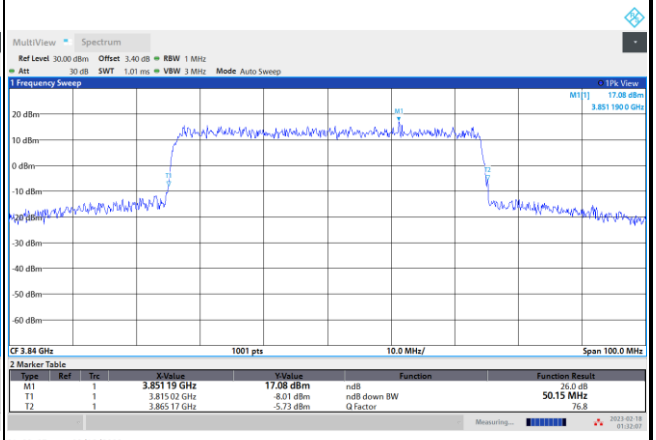
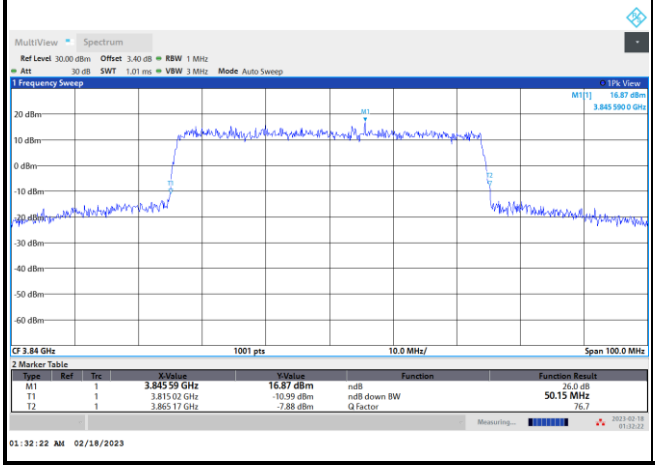
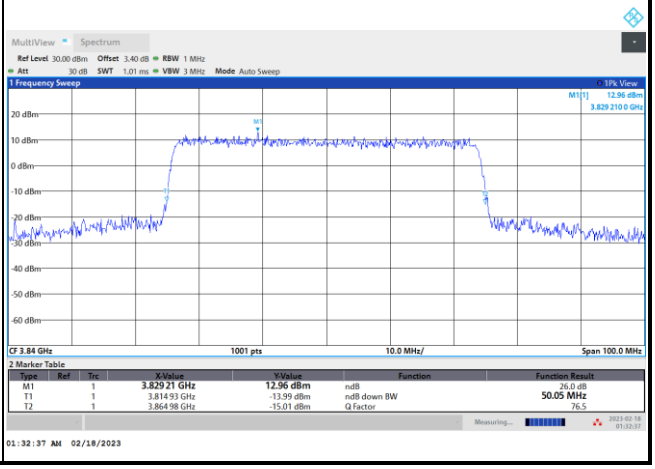
FR1 n77 / 20MHz / CP OFDM / Middle Channel / Full RB	
QPSK	16QAM
	
64QAM	256QAM
	

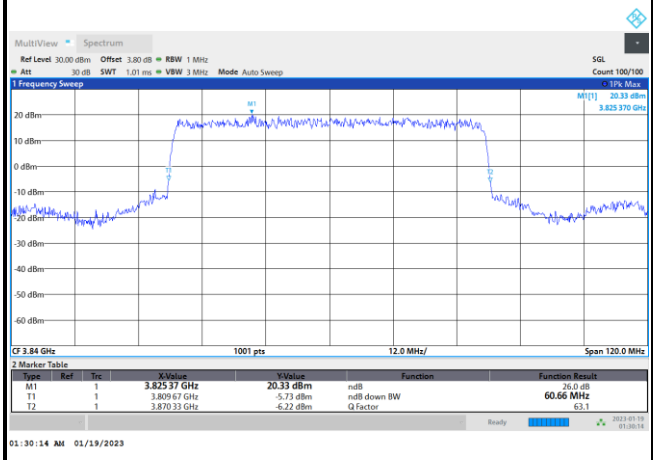
FR1 n77 / 30MHz / DFT-S OFDM / Middle Channel / Full RB	
PI/2 BPSK	
	

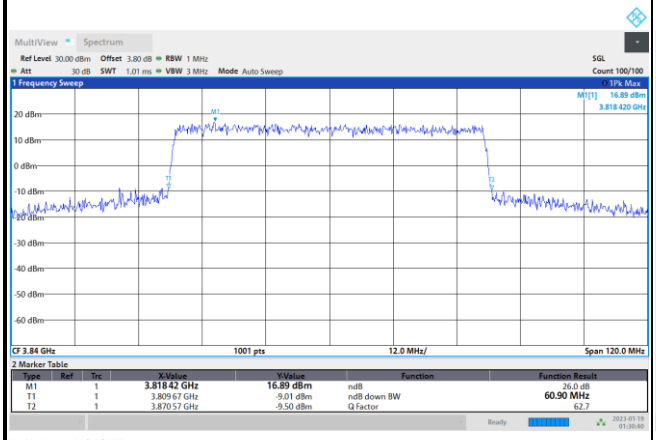
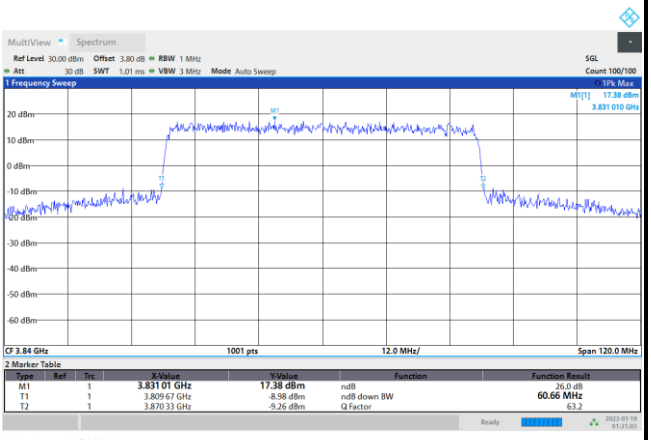
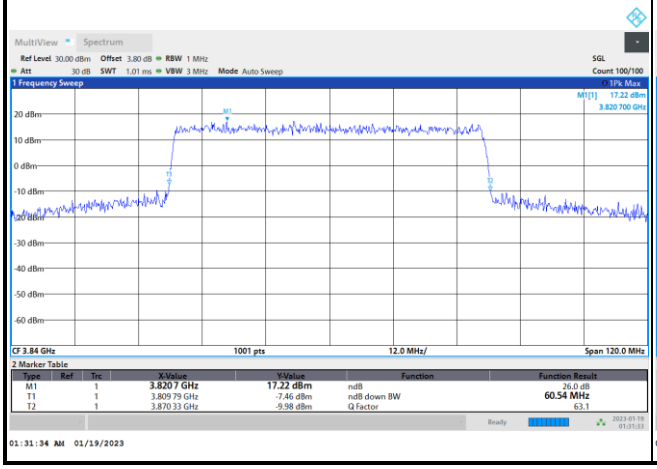
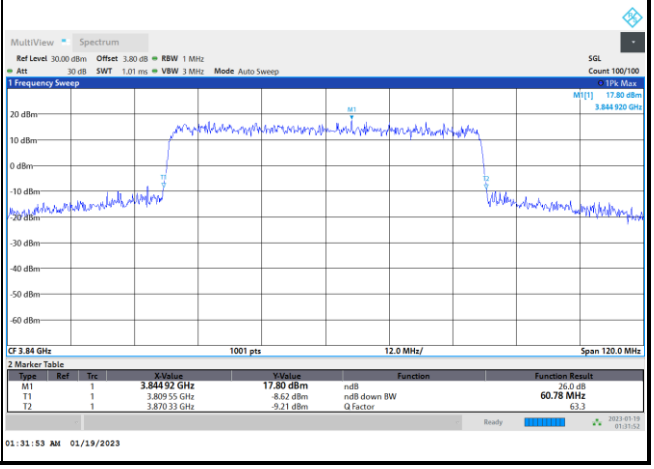
FR1 n77 / 30MHz / CP OFDM / Middle Channel / Full RB	
QPSK	16QAM
	
64QAM	256QAM
	

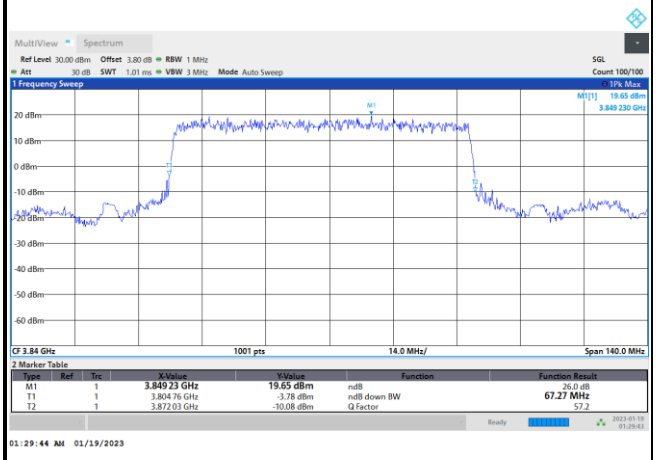
FR1 n77 / 40MHz / DFT-S OFDM / Middle Channel / Full RB	
PI/2 BPSK	
	

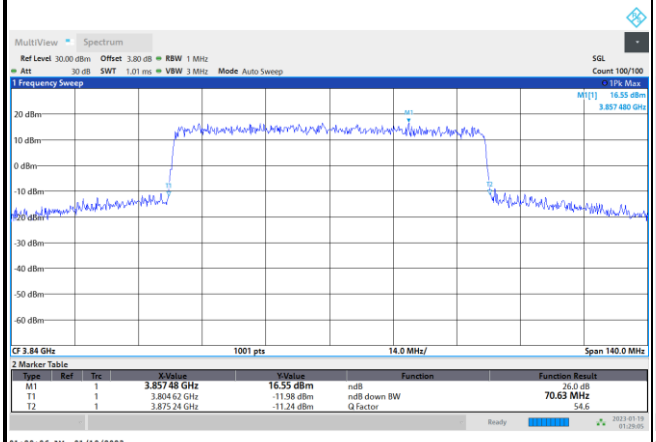
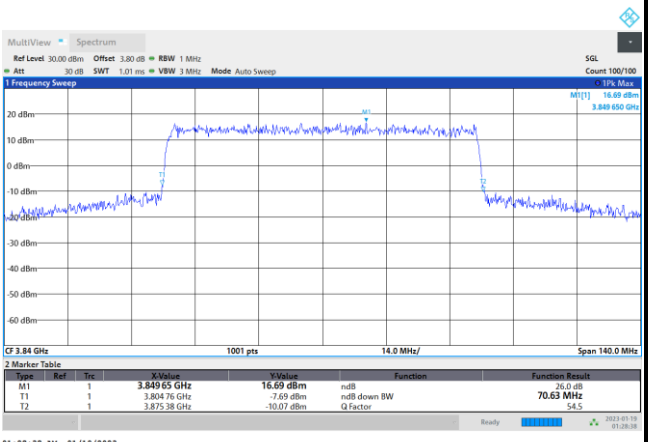
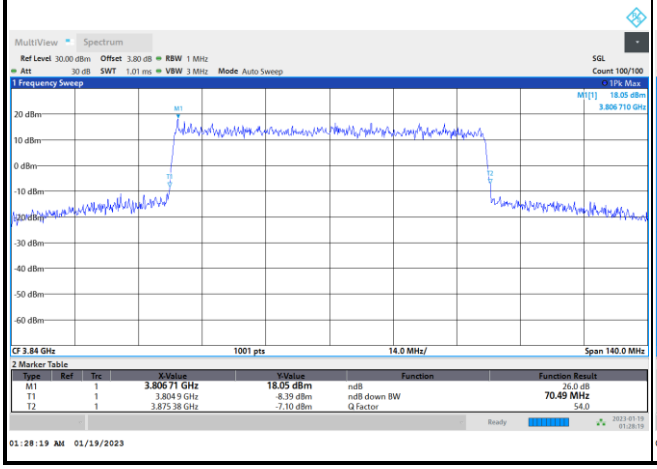
FR1 n77 / 40MHz / CP OFDM / Middle Channel / Full RB	
QPSK	16QAM
	
64QAM	256QAM
	

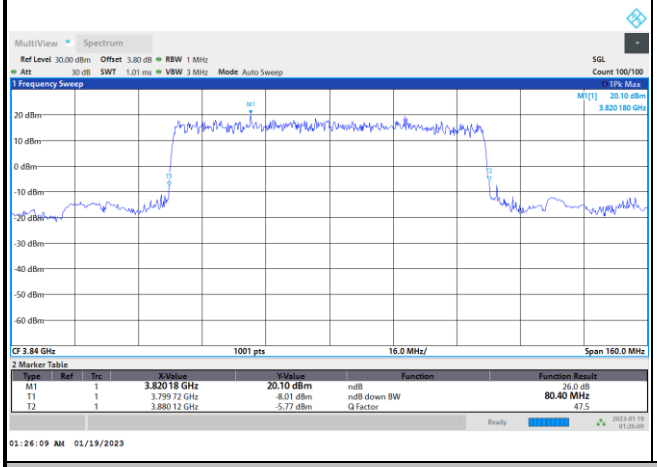
FR1 n77 / 50MHz / DFT-S OFDM / Middle Channel / Full RB	
PI/2 BPSK	
	
FR1 n77 / 50MHz / CP OFDM / Middle Channel / Full RB	
QPSK	16QAM
	
64QAM	256QAM
	

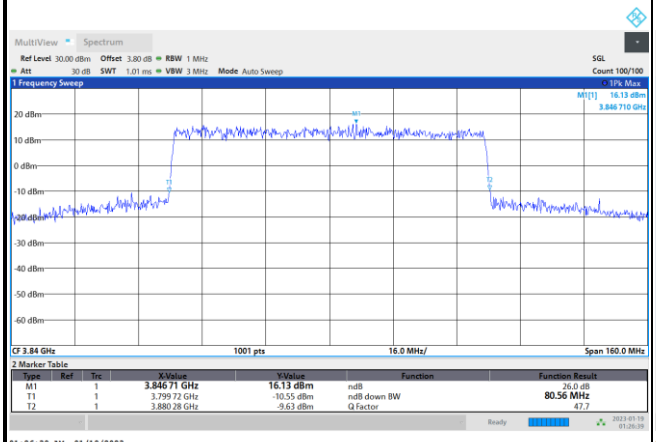
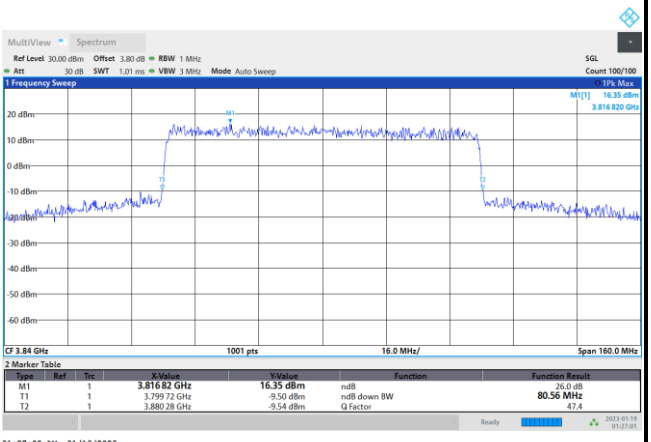
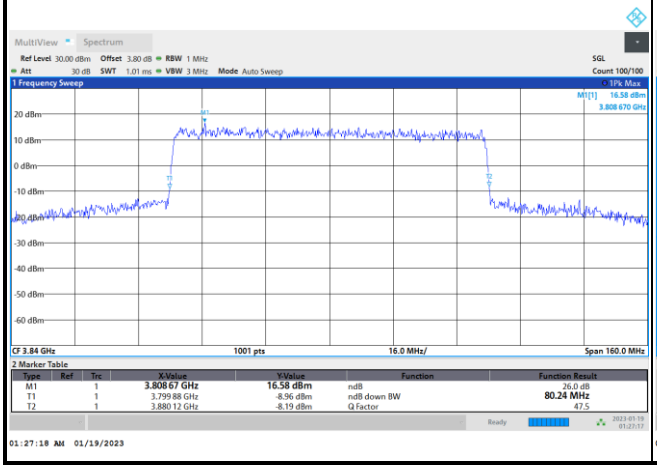
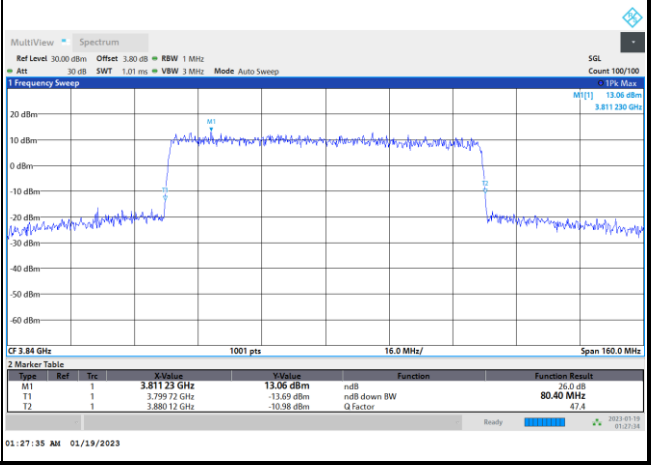
FR1 n77 / 60MHz / DFT-S OFDM / Middle Channel / Full RB	
PI/2 BPSK	
	

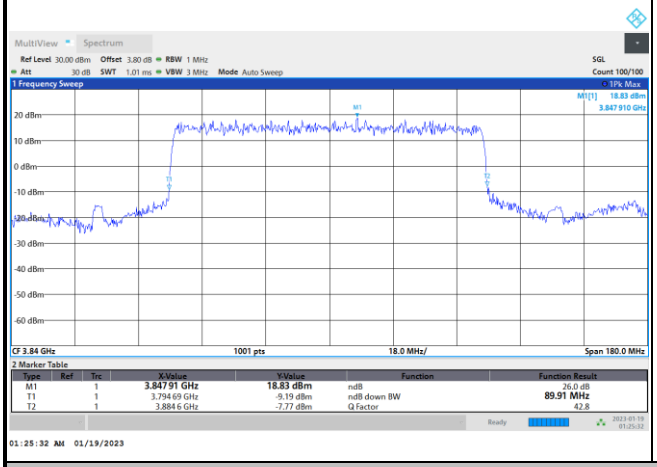
FR1 n77 / 60MHz / CP OFDM / Middle Channel / Full RB	
QPSK	16QAM
	
64QAM	256QAM
	

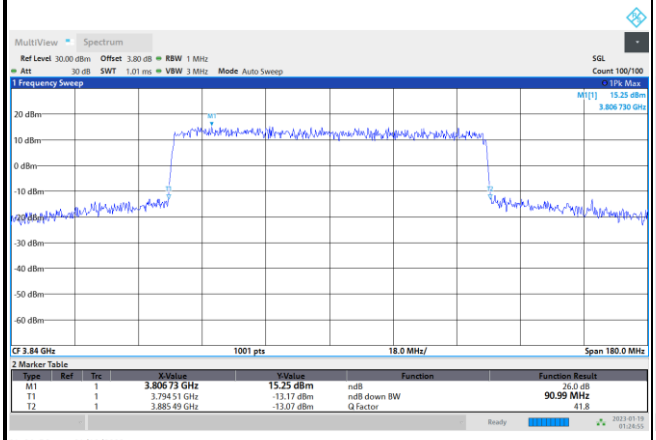
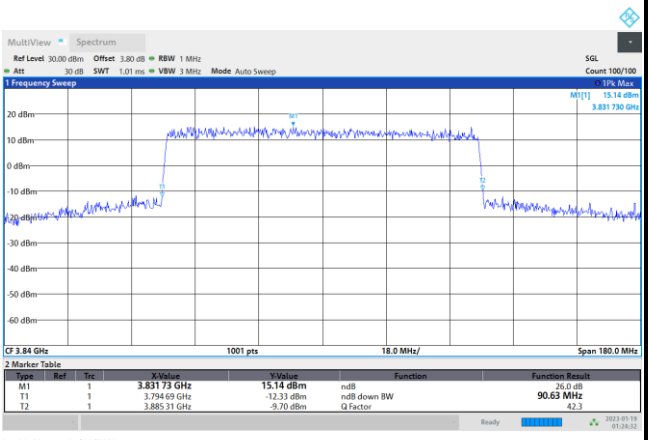
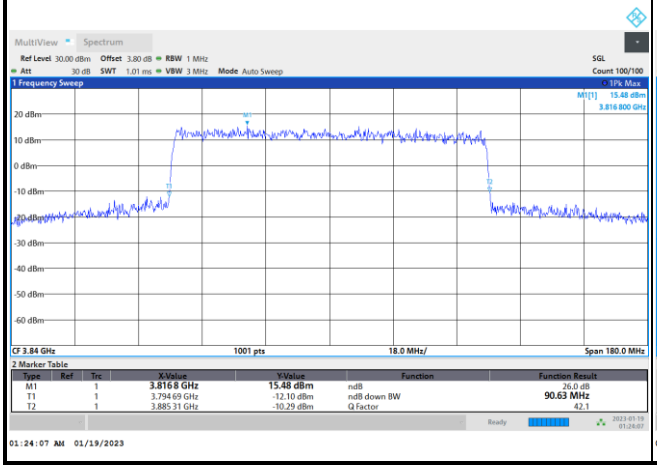
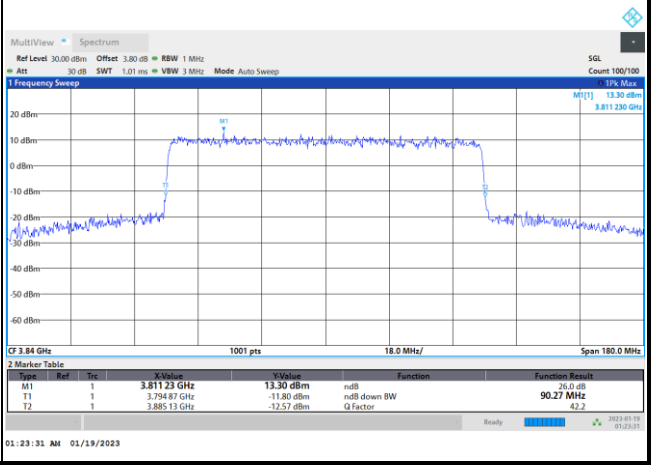
FR1 n77 / 70MHz / DFT-S OFDM / Middle Channel / Full RB	
PI/2 BPSK	
	

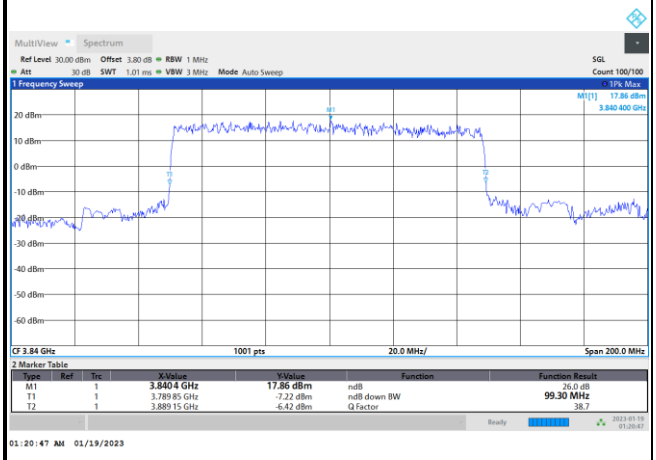
FR1 n77 / 70MHz / CP OFDM / Middle Channel / Full RB	
QPSK	16QAM
	
64QAM	256QAM
	

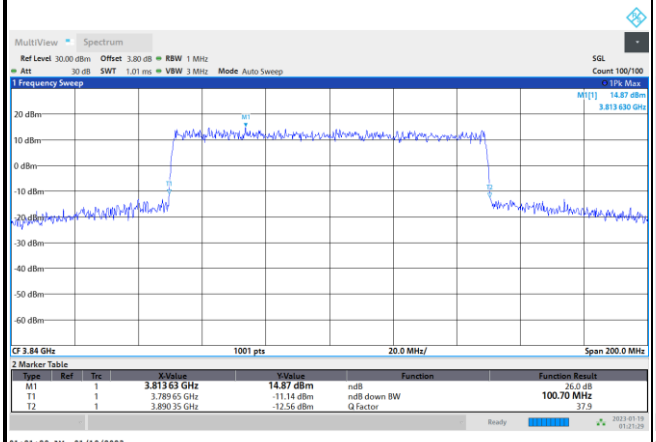
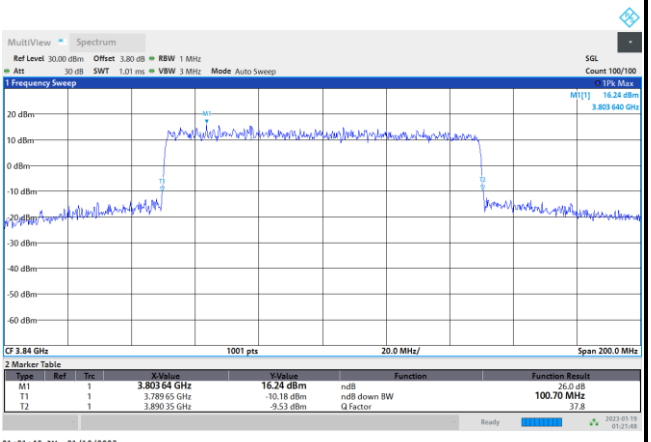
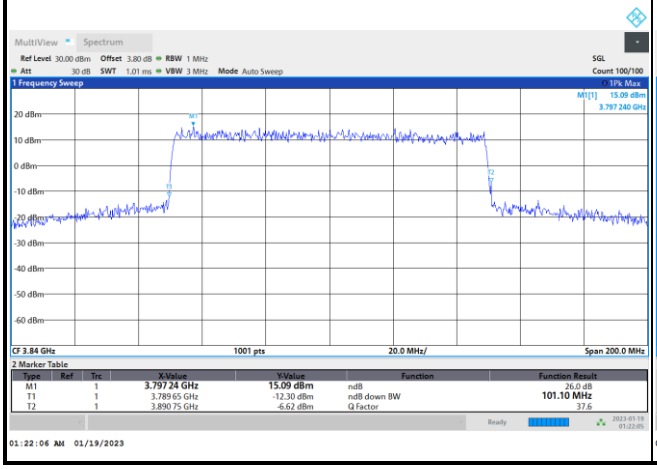
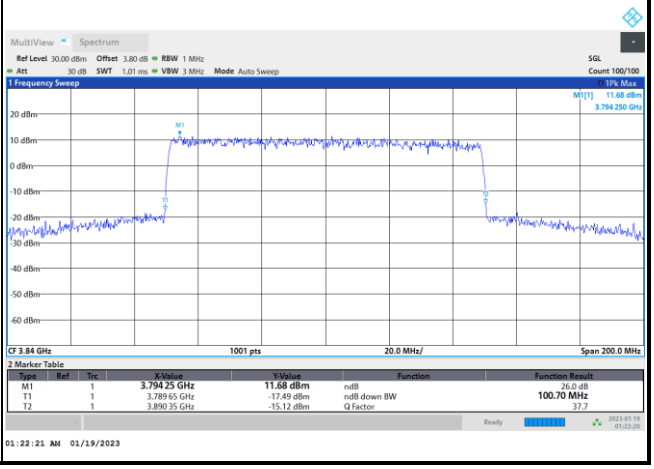
FR1 n77 / 80MHz / DFT-S OFDM / Middle Channel / Full RB	
PI/2 BPSK	
	

FR1 n77 / 80MHz / CP OFDM / Middle Channel / Full RB	
QPSK	16QAM
	
64QAM	256QAM
	

FR1 n77 / 90MHz / DFT-S OFDM / Middle Channel / Full RB	
PI/2 BPSK	
	

FR1 n77 / 90MHz / CP OFDM / Middle Channel / Full RB	
QPSK	16QAM
	
64QAM	256QAM
	

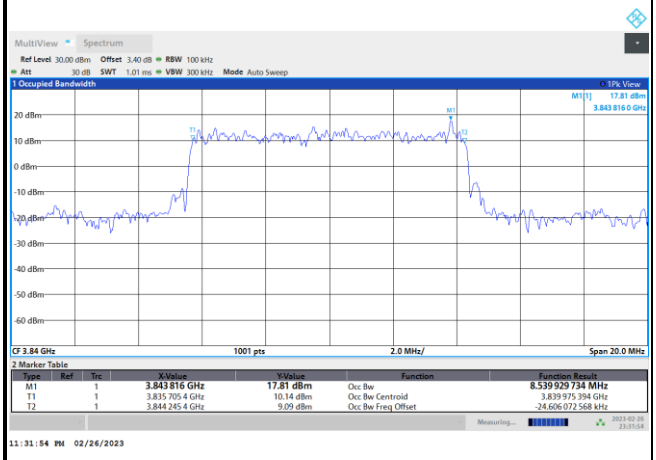
FR1 n77 / 100MHz / DFT-S OFDM / Middle Channel / Full RB	
PI/2 BPSK	
	

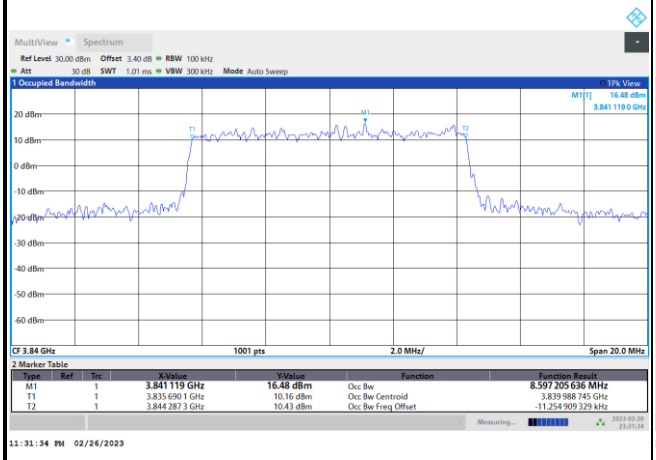
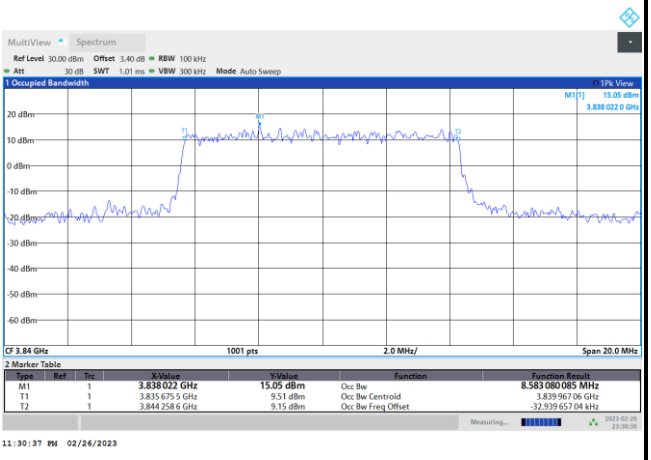
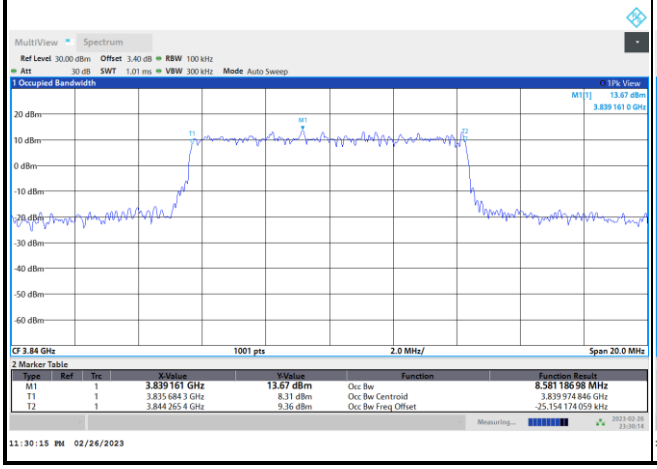
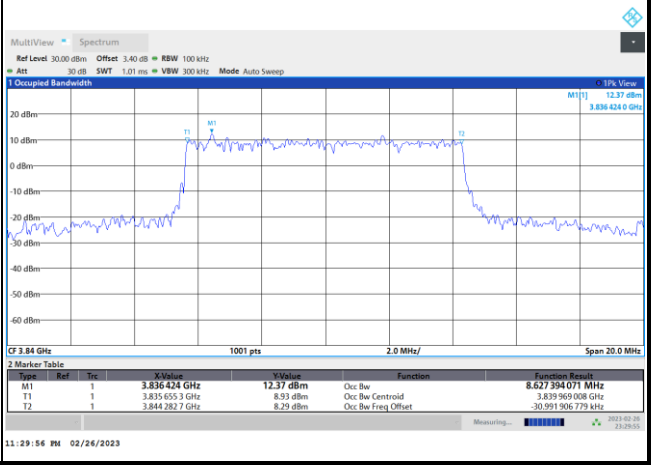
FR1 n77 / 100MHz / CP OFDM / Middle Channel / Full RB	
QPSK	16QAM
	
64QAM	256QAM
	

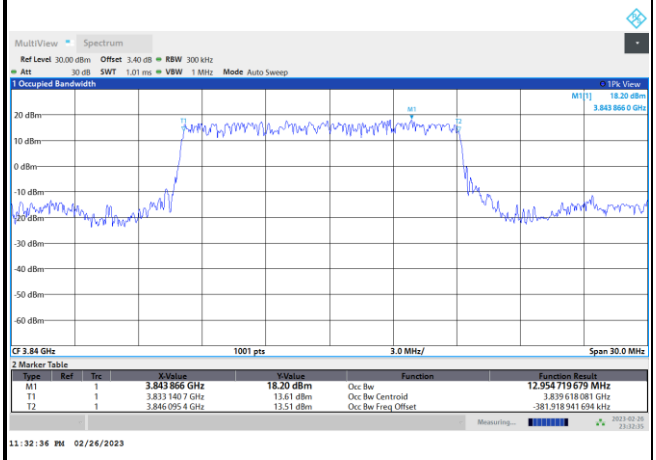
Occupied Bandwidth

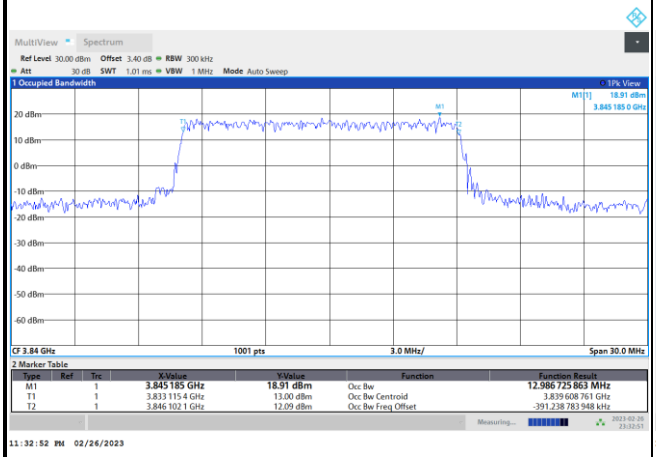
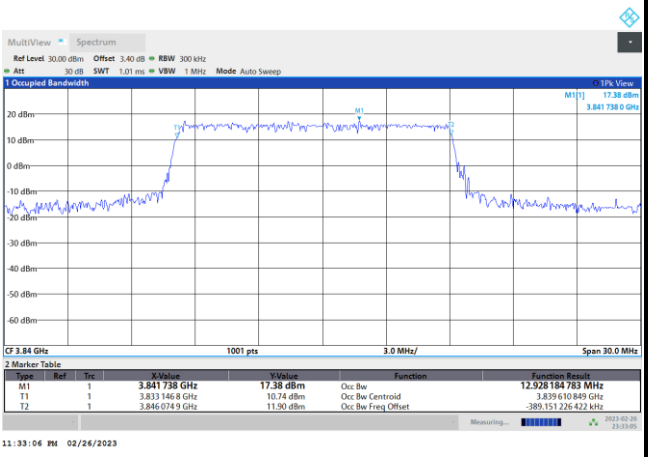
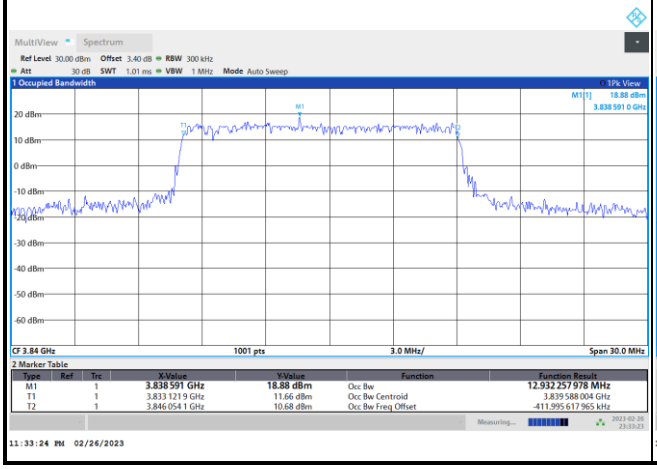
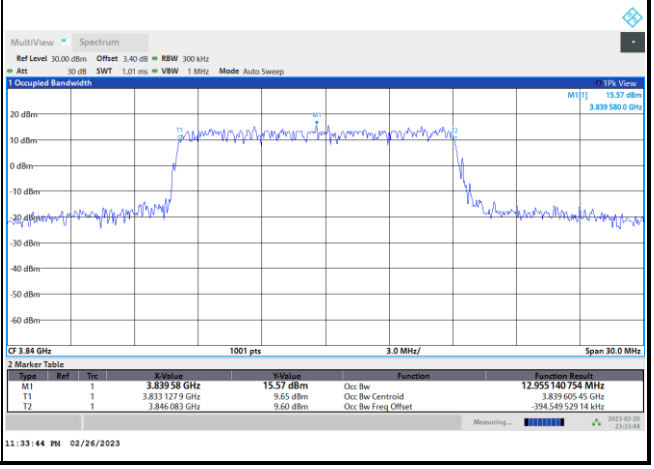
Mode	FR1 n77 : OB BW(MHz) / DFT-S OFDM							
BW	10MHz	15MHz	20MHz	25MHz	30MHz	40MHz	50MHz	60MHz
Mod.	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK
Middle CH	8.53	12.95	17.79	-	26.80	36.00	45.95	57.73
BW	70MHz	80MHz	90MHz	100MHz				
Mod.	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK				
Middle CH	64.23	77.12	86.67	96.32				

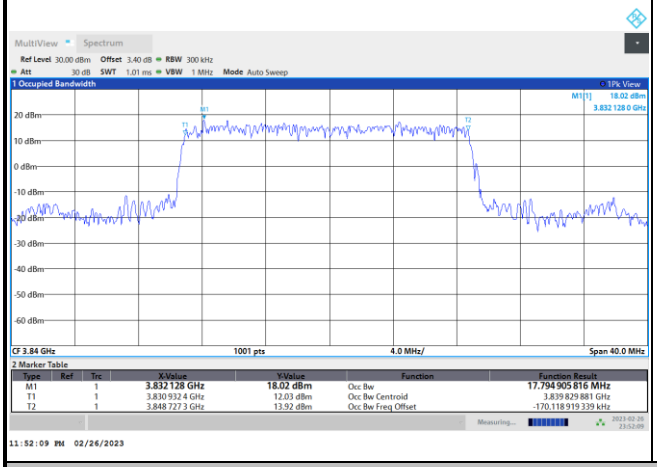
Mode	FR1 n77 : OB BW(MHz) / CP OFDM							
BW	10MHz		15MHz		20MHz		25MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	8.59	8.58	12.98	12.92	18.27	18.24	-	-
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	8.58	8.62	12.93	12.95	18.35	18.24	-	-
BW	30MHz		40MHz		50MHz		60MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	27.92	27.92	38.19	38.17	47.63	47.71	57.95	57.88
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	27.88	27.83	38.17	38.09	47.67	47.69	58.12	57.80
BW	70MHz		80MHz		90MHz		100MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	67.60	67.45	77.48	77.39	87.44	87.16	97.38	97.23
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	67.48	67.48	77.52	77.40	87.30	87.28	97.29	97.27

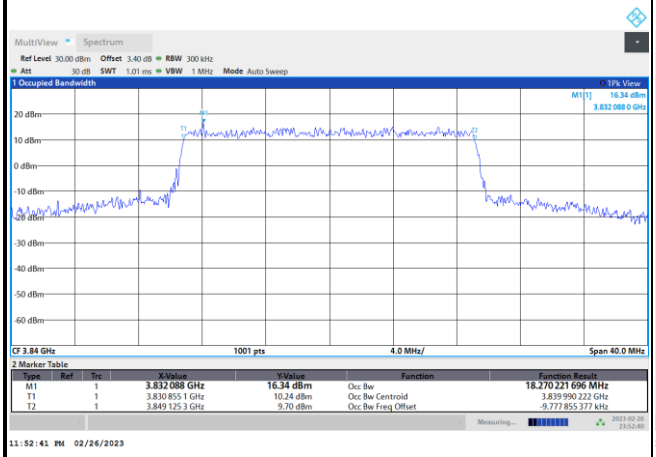
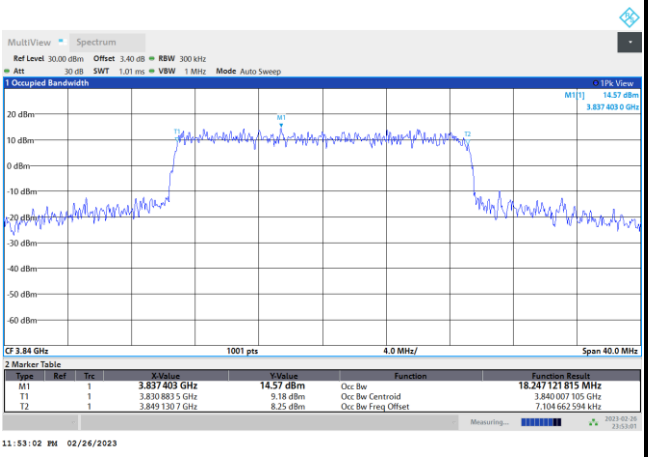
FR1 n77 / 10MHz / DFT-S OFDM / Middle Channel / Full RB	
PI/2 BPSK	
	

FR1 n77 / 10MHz / CP OFDM / Middle Channel / Full RB	
QPSK	16QAM
	
64QAM	256QAM
	

FR1 n77 / 15MHz / DFT-S OFDM / Middle Channel / Full RB	
PI/2 BPSK	
	

FR1 n77 / 15MHz / CP OFDM / Middle Channel / Full RB	
QPSK	16QAM
	
64QAM	256QAM
	

FR1 n77 / 20MHz / DFT-S OFDM / Middle Channel / Full RB	
PI/2 BPSK	
	

FR1 n77 / 20MHz / CP OFDM / Middle Channel / Full RB	
QPSK	16QAM
	
64QAM	256QAM