FCC RADIO TEST REPORT

FCC ID	:	**A4RGQML3**
Equipment	:	**Phone**
Applicant	:	**Google LLC** **1600 Amphitheatre Parkway,** **Mountain View, California, 94043 USA**
Standard	:	**FCC 47 CFR Part 2, 27**

The product was received on Mar. 17, 2022 and testing was performed from Mar. 22, 2022 to May 29, 2022. We, Sporton International Inc. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA-603-E and has been in compliance with the applicable technical standards.

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

Louis Wu

Approved by: Louis Wu

Sporton International Inc. EMC & Wireless Communications Laboratory
No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)

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History of this test report

Report No.	Version	Description	Issued Date
FG1O2843-05J	01	Initial issue of report	Jun. 10, 2022

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 (k)(3)	Equivalent Isotropic Radiated Power (n77)	Pass	
3.3	§27.50 (k)(4)	Peak-to-Average Ratio	Pass	-
3.4	§2.1049	Occupied Bandwidth	Reporting only	-
3.5	§2.1051 §27.53 (n)(2)	Conducted Band Edge Measurement (n77)	Pass	-
3.6	§2.1051 §27.53 (n)(2)	Conducted Spurious Emission (n77)	Pass	-
3.7	§2.1055 §27.54	Frequency Stability Temperature & Voltage	Pass	-
4.2	§2.1053 §27.53 (n)(2)	Radiated Spurious Emission (n77)	Pass	Under limit 15.83 dB at 13968.000 MHz for Primary Antenna Under limit 16.31 dB at 13806.000 MHz for ASDIV Antenna

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 this report "Uncertainty of Evaluation".

Comments and Explanations:

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

Reviewed by: William Chen

Report Producer: Ruby Zou

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	Phone
FCC ID	A4RGQML3
EUT supports Radios application	GSM/EGPRS/WCDMA/HSPA/LTE/5G NR/NFC/GNSS/ WPC/WPT WLAN 11b/g/n HT20 WLAN 11a/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80/VHT160 WLAN 11ax HE20/HE40/HE80/HE160 Bluetooth BR/EDR/LE

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

EUT Information List	
S/N	Performed Test Item
23091FDH20003S 23091FDH200043	Conducted Measurement EIRP
23121FDH200036 23121FDH20002A	Radiated Spurious Emission

1.2 Product Specification of Equipment Under Test

Product Specification subjective to this standard	
Tx Frequency	5G NR n77: 3455.01 MHz ~ 3544.98 MHz
Rx Frequency	5G NR n77: 3455.01 MHz ~ 3544.98 MHz
Bandwidth	5G NR n77: 10MHz / 15MHz / 20MHz / 25MHz / 30MHz / 40MHz / 50MHz / 60MHz / 70MHz / 80MHz / 90MHz / 100MHz
Maximum Output Power to Antenna	**<Primary Antenna>:** 26.75 dBm **<ASDIV Antenna>:** 25.67 dBm **<MIMO Mode>:** MIMO <Ant. 6+1>: 25.01 dBm MIMO <Ant. 7+5>: 24.38 dBm MIMO <Ant. 6+5>: 24.43 dBm MIMO <Ant. 7+1>: 24.10 dBm
Antenna Type	**<Primary Antenna>:** **<Ant. 6>:** IFA Antenna **<Ant. 1>:** ILA Antenna **<ASDIV Antenna>:** **<Ant. 7>:** IFA Antenna **<Ant. 5>:** Loop Antenna
Type of Modulation	PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM

<Primary Antenna>

Radio Tech	Band Number	Antenna name	Gain
5G NR	n77	ANT1	-7.2
5G NR	n77	ANT6	-4.4

<ASDIV Antenna>

Radio Tech	Band Number	Antenna name	Gain
5G NR	n77	ANT5	-3.1
5G NR	n77	ANT7	-5.3

Remark: The above EUT's information was declared by manufacturer. Please refer to Comments and Explanations in report summary.

1.3 Modification of EUT

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

1.4 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	Sherry Wu
Temperature (℃)	21.4~23.9
Relative Humidity (%)	47~59

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	Jack Cheng and Wilson Wu
Temperature (℃)	21.6~26.2
Relative Humidity (%)	56~68
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

1.5 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. The TAF code is not including all the FCC KDB listed without accreditation.

2 Test Configuration of Equipment Under Test

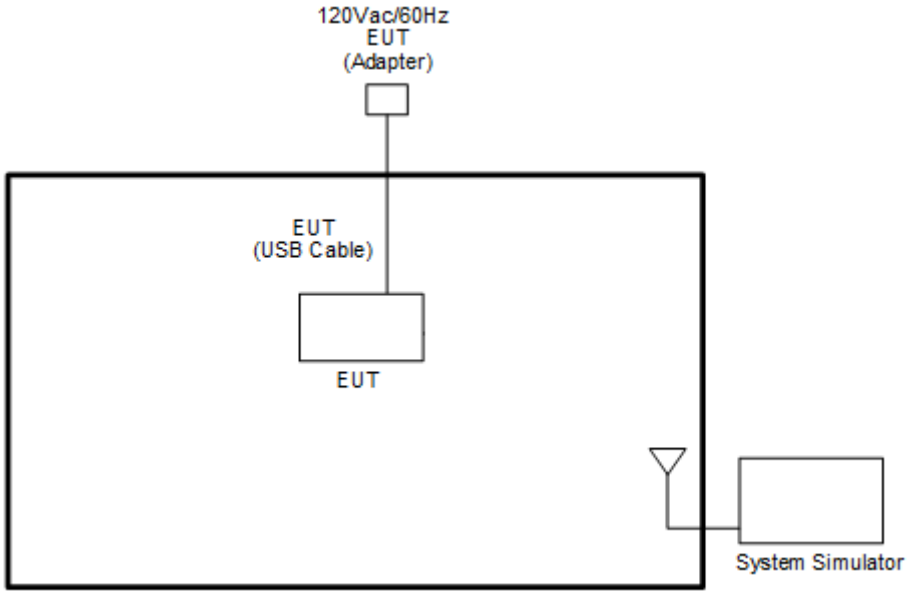
2.1 Test Mode

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 accessory (Adapter or Earphone), and adjusting the measurement antenna orientation, following C63.26 exploratory test procedures and find <Primary Antenna>: Y Plane with Adapter; <ASDIV Antenna>: X Plane with Adapter; <MIMO Antenna>: Y Plane with Adapter as worst plane.

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	v	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			v										v	v	v	v	v			v		v	
26dB and 99% Bandwidth	n77	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v			v		v	
Conducted Band Edge	n77	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v		v	v		v
Conducted Spurious Emission	n77	v													v				v			v	v	v
Frequency Stability	n77			v										v							v		v	
E.I.R.P	n77	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	Max. Power					
Radiated Spurious Emission	n77	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. 5. All the radiated test cases were performed with Adapter 2 and USB Cable 1. 6. During the preliminary test, both charging modes (Adapter mode and WPT Charging mode) were verified. It is determined that the adaptor mode is the worst case for official test. 7. One representative bandwidth is selected to perform PAR and frequency stability.																							

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.	System Simulator	Anritsu	MT8000A	N/A	N/A	Unshielded, 1.8 m

2.4 Measurement Results Explanation Example

For all conducted test items:

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

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

Offset = RF cable loss + attenuator factor.

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

Example :

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

= 4.2 + 10 = 14.2 (dB)

2.5 Frequency List of Low/Middle/High Channels

5G NR Band n77 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
100	Channel	-	633334	-
	Frequency	-	3500.01	-
90	Channel	633000	633334	633666
	Frequency	3495	3500.01	3504.99
80	Channel	632668	633334	634000
	Frequency	3490.02	3500.01	3510
70	Channel	632334	633334	634332
	Frequency	3485.01	3500.01	3514.98
60	Channel	632000	633334	634666
	Frequency	3480	3500.01	3519.99
50	Channel	631668	633334	635000
	Frequency	3475.02	3500.01	3525
40	Channel	631334	633334	635332
	Frequency	3470.01	3500.01	3529.98
30	Channel	631000	633334	635666
	Frequency	3465	3500.01	3534.99
25	Channel	647500	656000	664500
	Frequency	3712.5	3840	3967.5
20	Channel	630668	633334	636000
	Frequency	3460.02	3500.01	3540
15	Channel	630500	633334	636166
	Frequency	3457.5	3500.01	3542.49
10	Channel	630334	633334	636332
	Frequency	3455.01	3500.01	3544.98

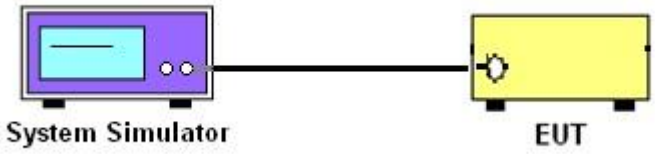
3 Conducted Test Items

3.1 Measuring Instruments

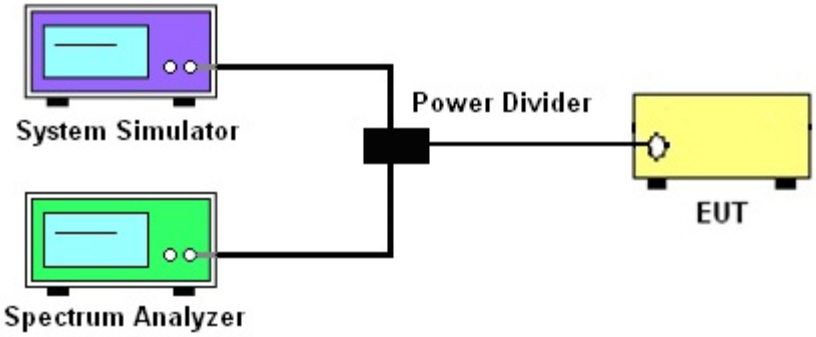
See list of measuring instruments of this test report.

3.1.1 Test Setup

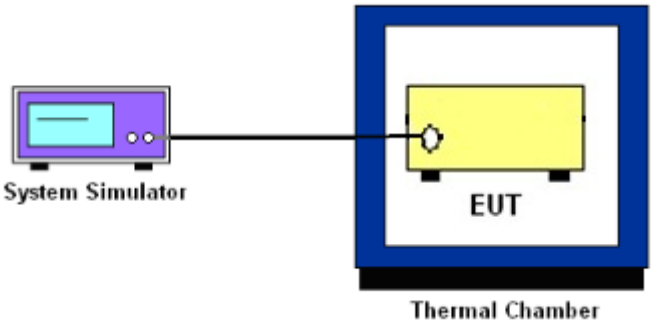
3.1.2 Conducted Output Power



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 = $P_T + G_T – L_C$, ERP = EIRP -2.15, 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 (n)(2)

(2) For mobile operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed −13 dBm/MHz. Compliance with this paragraph (n)(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, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed, but limited to a maximum of 200 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. For EBW < 20MHz, set RBW >= 1% EBW in the 1MHz band immediately outside and adjacent to the band edge.
4. For EBW >=20MHz,set RBW = 200kHz in the 1MHz band immediately outside and adjacent to the band edge.
5. Between 1 ~5 MHz from the band edge, RBW=500 kHz was used.
6. Set spectrum analyzer with RMS detector.
7. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
8. 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)
9. 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.

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

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.

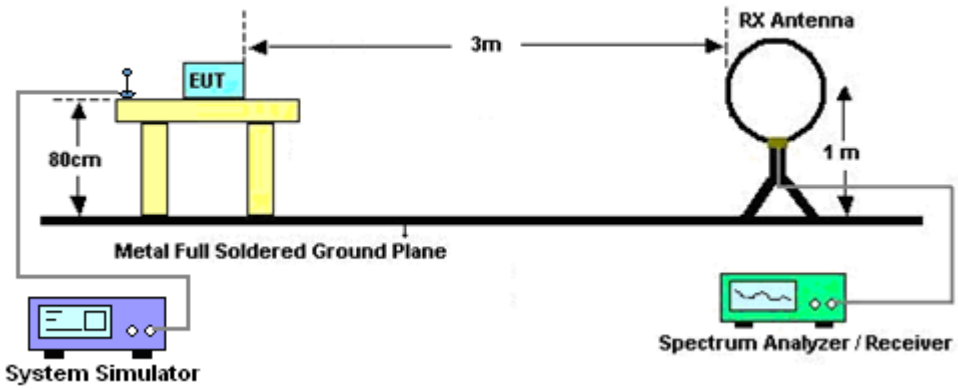
4 Radiated Test Items

4.1 Measuring Instruments

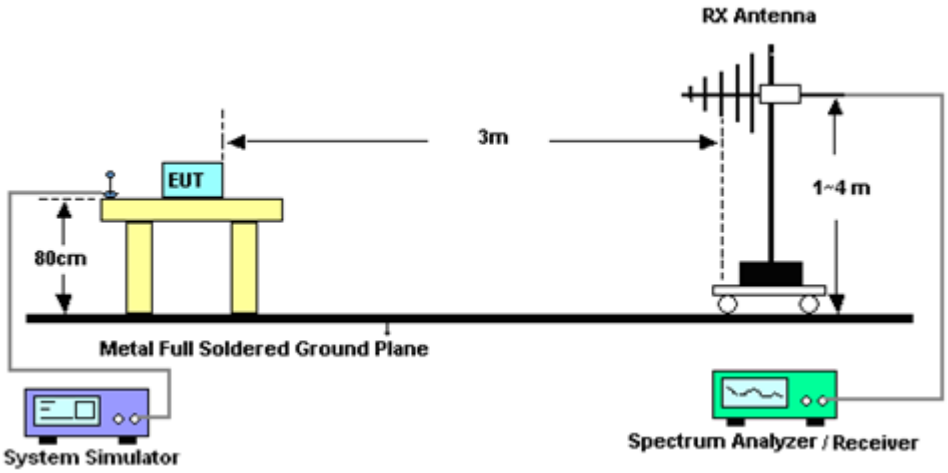
See list of measuring instruments of this test report.

4.1.1 Test Setup

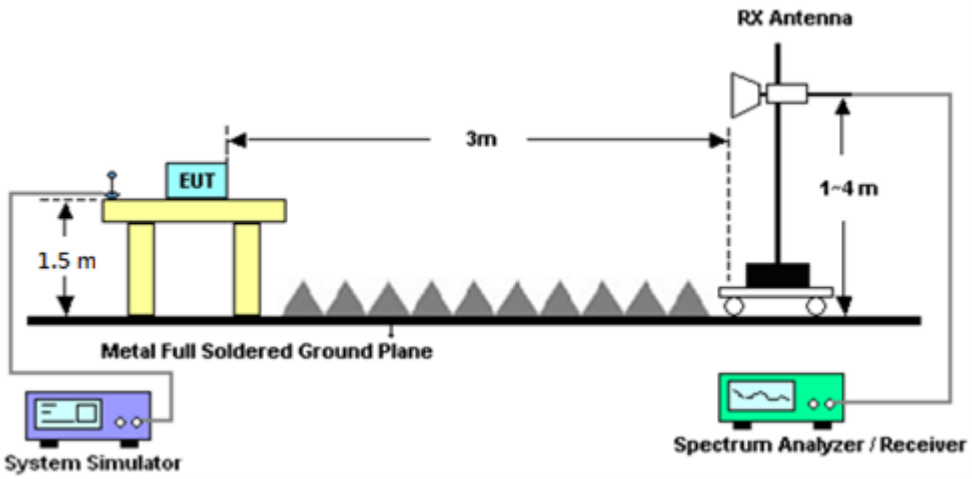
For radiated test below 30MHz



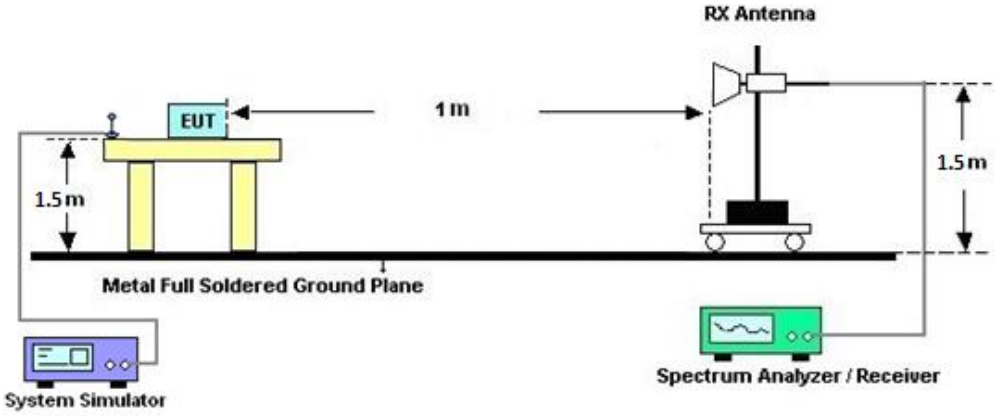
For radiated test from 30MHz to 1GHz



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.

The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

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)

    EIRP (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain

    ERP (dBm) = EIRP - 2.15

5 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Sep. 07, 2021	Apr. 08, 2022~ Apr. 30, 2022	Sep. 06, 2022	Radiation (03CH12-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N -06	37059 & 01	30MHz~1GHz	Oct. 09, 2021	Apr. 08, 2022~ Apr. 30, 2022	Oct. 08, 2022	Radiation (03CH12-HY)
Bilog Antenna	TESEQ	CBL 6111D & N-6-06	35414 & AT-N0602	30MHz~1GHz	Oct. 09, 2021	Apr. 08, 2022~ Apr. 30, 2022	Oct. 08, 2022	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1328	1GHz~18GHz	Dec. 03, 2021	Apr. 08, 2022~ Apr. 30, 2022	Dec. 02, 2022	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1212	1GHz~18GHz	May 18, 2021	Apr. 08, 2022~ Apr. 30, 2022	May 17, 2022	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170251	18GHz~40GHz	Nov. 30, 2021	Apr. 08, 2022~ Apr. 30, 2022	Nov. 29, 2022	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170576	18GHz~40GHz	May 21, 2021	Apr. 08, 2022~ Apr. 30, 2022	May 20, 2022	Radiation (03CH12-HY)
Preamplifier	COM-POWER	PA-103	161075	10MHz~1GHz	Mar. 23, 2022	Apr. 08, 2022~ Apr. 30, 2022	Mar. 22, 2023	Radiation (03CH12-HY)
Preamplifier	Aglient	8449B	3008A02375	1GHz~26.5GHz	May 25, 2021	Apr. 08, 2022~ Apr. 30, 2022	May 24, 2022	Radiation (03CH12-HY)
Preamplifier	E-INSTRUMENT TECH LTD.	ERA-100M-18G-56-01-A70	EC1900270	1GHz-18GHz	Dec. 27, 2021	Apr. 08, 2022~ Apr. 30, 2022	Dec. 26, 2022	Radiation (03CH12-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz~40GHz	Dec. 24, 2021	Apr. 08, 2022~ Apr. 30, 2022	Dec. 23, 2022	Radiation (03CH12-HY)
Spectrum Analyzer	Keysight	N9010A	MY53470118	10Hz~44GHz	Jan. 12, 2022	Apr. 08, 2022~ Apr. 30, 2022	Jan. 11, 2023	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	9kHz~30MHz	Mar. 10, 2022	Apr. 08, 2022~ Apr. 30, 2022	Mar. 09, 2023	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0058/126E	30MHz~18GHz	Dec. 10, 2021	Apr. 08, 2022~ Apr. 30, 2022	Dec. 09, 2022	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30MHz~40GHz	Feb. 21, 2022	Apr. 08, 2022~ Apr. 30, 2022	Feb. 20, 2023	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803953/2	30MHz~40GHz	Mar. 08, 2022	Apr. 08, 2022~ Apr. 30, 2022	Mar. 07, 2023	Radiation (03CH12-HY)
Filter	Wainwright	WLKS1200-12SS	SN2	1.2GHz Low Pass Filter	Mar. 16, 2022	Apr. 08, 2022~ Apr. 30, 2022	Mar. 15, 2023	Radiation (03CH12-HY)
Filter	Wainwright	WHKX12-2700-3000-18000-60ST	SN2	3GHz High Pass Filter	Jul. 12, 2021	Apr. 08, 2022~ Apr. 30, 2022	Jul. 11, 2022	Radiation (03CH12-HY)
Filter	Wainwright	WHKX8-5872.5-6750-18000-40ST	SN2	6.75GHz High Pass Filter	Mar. 16, 2022	Apr. 08, 2022~ Apr. 30, 2022	Mar. 15, 2023	Radiation (03CH12-HY)
Hygrometer	TECPEL	DTM-303B	TP140349	N/A	Sep. 30, 2021	Apr. 08, 2022~ Apr. 30, 2022	Sep. 29, 2022	Radiation (03CH12-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Apr. 08, 2022~ Apr. 30, 2022	N/A	Radiation (03CH12-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Apr. 08, 2022~ Apr. 30, 2022	N/A	Radiation (03CH12-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Apr. 08, 2022~ Apr. 30, 2022	N/A	Radiation (03CH12-HY)
Software	Audix	E3 6.2009-8-24	RK-000989	N/A	N/A	Apr. 08, 2022~ Apr. 30, 2022	N/A	Radiation (03CH12-HY)

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Programmable Power Supply	GW Instek	PSS-2005	EL890001	50Hz~60Hz	Oct. 06, 2021	Mar. 22, 2022~ May 29, 2022	Oct. 05, 2022	Conducted (TH03-HY)
Signal Analyzer	Rohde & Schwarz	FSV3044	101102	10Hz~44GHz	Feb. 09, 2022	Mar. 22, 2022~ May 29, 2022	Feb. 08, 2023	Conducted (TH03-HY)
Thermal Chamber	ESPEC	SH-641	92013720	-40℃ ~90℃	Sep. 09, 2021	Mar. 22, 2022~ May 29, 2022	Sep. 08, 2022	Conducted (TH03-HY)
Base Station (Measure)	Anritsu	MT8821C	6261849015	LTE	Ocr. 06, 2021	Mar. 22, 2022~ May 29, 2022	Oct. 05, 2022	Conducted (TH03-HY)
Base Station (Measure)	Anritsu	MT8000A	6261940327	FR1	Oct. 29, 2021	Mar. 22, 2022~ May 29, 2022	Oct. 28, 2022	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))	**3.10 dB**

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

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

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**4.34 dB**

Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power) and EIRP

<Primary Antenna>

NR n77 PC2 Maximum Average Power [dBm] (GT - LC = -4.4 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
10	1	1	PI/2 BPSK	25.78	26.05	26.10	21.91	0.1552
10	1	22		25.67	25.94	26.23		
10	12	6		25.72	25.92	26.27		
10	1	0		22.30	22.54	22.60		
10	1	23		22.15	22.35	22.74		
10	24	0		25.23	25.38	25.80		
10	1	1	QPSK	25.75	26.06	26.19		
10	1	22		25.67	25.93	26.27		
10	12	6		25.76	25.94	26.31		
10	1	0		22.31	22.52	22.67		
10	1	23		22.12	22.40	22.81		
10	24	0		24.73	24.90	25.26		
10	1	1	16-QAM	24.91	24.82	25.19	20.79	0.1199
10	1	1	64-QAM	23.42	23.40	23.78		
10	1	1	256-QAM	21.21	21.57	21.68		
Limit	EIRP < 1W			Result			Pass	

NR n77 PC2 Maximum Average Power [dBm] (GT - LC = -4.4 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
15	1	1	PI/2 BPSK	25.90	26.11	25.91	21.82	0.1521
15	1	36		25.87	25.89	26.21		
15	18	9		25.74	25.90	26.06		
15	1	0		22.34	22.53	22.40		
15	1	37		22.25	22.34	22.60		
15	36	0		25.24	25.44	25.56		
15	1	1	QPSK	25.85	25.99	26.07		
15	1	36		25.78	25.85	26.22		
15	18	9		25.74	25.91	26.08		
15	1	0		22.31	22.53	22.56		
15	1	37		22.28	22.34	22.74		
15	36	0		24.74	24.93	25.01		
15	1	1	16-QAM	24.73	24.77	25.12	20.72	0.1180
15	1	1	64-QAM	23.27	23.87	23.42		
15	1	1	256-QAM	21.22	21.64	21.52		
Limit	EIRP < 1W			Result			Pass	

NR n77 PC2 Maximum Average Power [dBm] (GT - LC = -4.4 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
20	1	1	PI/2 BPSK	25.87	26.01	23.91	21.79	0.1510
20	1	49		25.79	25.78	26.15		
20	25	12		25.78	25.91	25.99		
20	1	0		22.35	22.48	22.41		
20	1	50		22.31	22.32	22.61		
20	50	0		25.25	25.42	25.50		
20	1	1	QPSK	25.88	26.02	26.02		
20	1	49		25.87	25.82	26.19		
20	25	12		25.77	25.91	25.98		
20	1	0		22.33	22.54	22.50		
20	1	50		22.34	22.34	22.67		
20	50	0		24.74	24.91	25.01		
20	1	1	16-QAM	25.03	25.19	25.03	20.79	0.1199
20	1	1	64-QAM	23.42	23.54	23.48		
20	1	1	256-QAM	21.35	21.38	21.32		
Limit	EIRP < 1W			Result			Pass	

NR n77 PC2 Maximum Average Power [dBm] (GT - LC = -4.4 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
25	1	1	PI/2 BPSK	25.94	26.17	26.01	21.77	0.1503
25	1	63		25.78	25.86	26.15		
25	32	16		25.92	25.96	26.00		
25	1	0		22.34	22.52	22.41		
25	1	64		22.25	22.25	22.55		
25	64	0		25.44	25.44	25.45		
25	1	1	QPSK	25.91	26.12	25.94		
25	1	63		25.81	25.91	26.12		
25	32	16		25.91	25.94	25.97		
25	1	0		22.41	22.71	22.45		
25	1	64		22.30	22.34	22.57		
25	64	0		24.92	24.91	24.93		
25	1	1	16-QAM	24.95	25.24	24.97	20.84	0.1213
25	1	1	64-QAM	23.45	23.55	23.51		
25	1	1	256-QAM	21.43	21.51	21.44		
Limit	EIRP < 1W			Result			Pass	

NR n77 PC2 Maximum Average Power [dBm] (GT - LC = -4.4 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
30	1	1	PI/2 BPSK	25.89	26.14	26.12	21.85	0.1531
30	1	76		25.78	25.75	26.22		
30	36	18		25.88	25.92	26.01		
30	1	0		22.33	22.57	22.54		
30	1	77		22.15	22.24	22.72		
30	75	0		25.35	25.43	25.51		
30	1	1	QPSK	25.88	26.12	26.12		
30	1	76		25.73	25.77	26.25		
30	36	18		25.85	25.91	26.05		
30	1	0		22.37	22.63	22.63		
30	1	77		22.21	22.31	22.71		
30	75	0		24.82	24.88	25.02		
30	1	1	16-QAM	24.94	25.12	25.27	20.87	0.1222
30	1	1	64-QAM	23.40	23.67	23.82		
30	1	1	256-QAM	21.47	21.43	21.81		
Limit	EIRP < 1W			Result			Pass	

NR n77 PC2 Maximum Average Power [dBm] (GT - LC = -4.4 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
40	1	1	PI/2 BPSK	25.95	26.14	26.06	21.77	0.1503
40	1	104		25.87	25.84	26.11		
40	50	25		25.87	25.90	25.91		
40	1	0		22.37	22.65	22.55		
40	1	105		22.40	22.30	22.56		
40	100	0		25.39	25.40	25.44		
40	1	1	QPSK	25.97	26.17	26.03		
40	1	104		26.06	25.87	26.11		
40	50	25		25.88	25.91	25.91		
40	1	0		22.45	22.66	22.55		
40	1	105		22.54	22.30	22.57		
40	100	0		24.90	24.90	24.91		
40	1	1	16-QAM	25.22	24.85	25.23	20.83	0.1211
40	1	1	64-QAM	23.70	23.68	23.30		
40	1	1	256-QAM	21.38	21.72	21.55		
Limit	EIRP < 1W			Result			Pass	

NR n77 PC2 Maximum Average Power [dBm] (GT - LC = -4.4 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
50	1	1	PI/2 BPSK	26.06	25.91	26.11	21.76	0.1500
50	1	131		25.76	25.74	25.99		
50	64	32		25.76	25.91	25.94		
50	1	0		22.45	22.46	22.61		
50	1	132		22.13	22.31	22.47		
50	128	0		25.24	25.41	25.48		
50	1	1	QPSK	26.01	25.97	26.16		
50	1	131		25.75	25.81	26.01		
50	64	32		25.77	25.91	25.92		
50	1	0		22.51	22.45	22.67		
50	1	132		22.21	22.29	22.50		
50	128	0		24.71	24.90	24.97		
50	1	1	16-QAM	25.11	24.94	24.93	20.71	0.1178
50	1	1	64-QAM	23.33	23.77	23.92		
50	1	1	256-QAM	21.55	21.44	21.52		
Limit	EIRP < 1W			Result			Pass	

NR n77 PC2 Maximum Average Power [dBm] (GT - LC = -4.4 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
60	1	1	PI/2 BPSK	26.03	25.96	26.24	21.89	0.1545
60	1	160		25.74	25.71	26.05		
60	81	40		25.90	25.91	25.97		
60	1	0		22.52	22.44	22.73		
60	1	161		22.25	22.24	22.57		
60	162	0		25.56	25.41	25.52		
60	1	1	QPSK	26.11	25.98	26.29		
60	1	160		25.81	25.71	26.11		
60	81	40		25.91	25.98	25.97		
60	1	0		22.58	22.48	22.81		
60	1	161		22.35	22.26	22.64		
60	162	0		25.06	24.91	24.95		
60	1	1	16-QAM	25.37	25.04	25.16	20.97	0.1250
60	1	1	64-QAM	23.77	23.66	23.56		
60	1	1	256-QAM	21.87	21.70	21.64		
Limit	EIRP < 1W			Result			Pass	

NR n77 PC2 Maximum Average Power [dBm] (GT - LC = -4.4 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
70	1	1	PI/2 BPSK	26.15	26.17	26.22	21.84	0.1528
70	1	187		25.78	25.81	25.85		
70	90	45		26.01	25.91	25.94		
70	1	0		22.67	22.67	22.76		
70	1	188		22.26	22.33	22.33		
70	180	0		25.56	25.41	25.45		
70	1	1	QPSK	26.08	26.20	26.24		
70	1	187		25.72	25.78	25.82		
70	90	45		26.02	25.91	25.92		
70	1	0		22.71	22.77	22.74		
70	1	188		22.21	22.32	22.35		
70	180	0		25.05	24.94	24.95		
70	1	1	16-QAM	25.08	25.09	25.24	20.84	0.1213
70	1	1	64-QAM	23.71	23.70	23.83		
70	1	1	256-QAM	21.68	21.73	21.82		
Limit	EIRP < 1W			Result			Pass	

NR n77 PC2 Maximum Average Power [dBm] (GT - LC = -4.4 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
80	1	1	PI/2 BPSK	21.23	26.14	26.17	21.77	0.1503
80	1	215		25.86	25.93	26.15		
80	108	54		25.97	26.00	25.89		
80	1	0		22.69	22.72	22.74		
80	1	216		22.41	22.50	22.70		
80	216	0		25.51	25.47	25.47		
80	1	1	QPSK	26.14	26.16	26.16		
80	1	215		25.81	25.94	26.13		
80	108	54		26.00	25.94	25.92		
80	1	0		22.73	22.71	22.74		
80	1	216		22.38	22.47	22.75		
80	216	0		24.98	24.97	24.97		
80	1	1	16-QAM	25.54	25.24	25.21	21.14	0.1300
80	1	1	64-QAM	23.89	23.65	23.77		
80	1	1	256-QAM	21.92	21.71	21.74		
Limit	EIRP < 1W			Result			Pass	

NR n77 PC2 Maximum Average Power [dBm] (GT - LC = -4.4 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
90	1	1	PI/2 BPSK	26.24	26.15	26.17	21.95	0.1567
90	1	243		25.78	26.15	26.21		
90	120	60		25.91	25.86	26.00		
90	1	0		22.78	22.78	22.77		
90	1	244		22.40	22.64	22.82		
90	243	0		25.46	25.45	25.50		
90	1	1	QPSK	26.35	26.21	26.20		
90	1	243		25.88	26.08	26.29		
90	120	60		25.94	25.91	25.96		
90	1	0		22.97	22.82	22.83		
90	1	244		22.47	22.67	22.83		
90	243	0		24.97	24.95	25.02		
90	1	1	16-QAM	25.52	25.31	25.13	21.12	0.1294
90	1	1	64-QAM	23.85	23.71	23.90		
90	1	1	256-QAM	21.78	21.85	21.92		
Limit	EIRP < 1W			Result			Pass	

NR n77 PC2 Maximum Average Power [dBm] (GT - LC = -4.4 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
100	1	1	PI/2 BPSK	-	26.72	-	22.35	0.1718
100	1	271		-	26.48	-		
100	135	67		-	26.35	-		
100	1	0		-	23.28	-		
100	1	272		-	23.06	-		
100	270	0		-	25.87	-		
100	1	1	QPSK	-	26.75	-		
100	1	271		-	26.47	-		
100	135	67		-	26.33	-		
100	1	0		-	23.26	-		
100	1	272		-	23.02	-		
100	270	0		-	25.31	-		
100	1	1	16-QAM	-	25.71	-	21.31	0.1352
100	1	1	64-QAM	-	24.19	-		
100	1	1	256-QAM	-	22.12	-		
Limit	EIRP < 1W			Result			Pass	

<ASDIV Antenna>

NR n77 PC2 Maximum Average Power [dBm] (GT - LC = -5.3 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
10	1	1	PI/2 BPSK	24.70	25.05	25.02	19.90	0.0977
10	1	22		24.54	24.77	25.17		
10	12	6		24.64	24.80	25.20		
10	1	0		21.19	21.48	21.47		
10	1	23		20.98	21.32	21.61		
10	24	0		24.15	24.35	24.64		
10	1	1	QPSK	24.68	24.95	25.06		
10	1	22		24.53	24.86	25.13		
10	12	6		24.59	24.81	25.16		
10	1	0		21.27	21.38	21.47		
10	1	23		21.00	21.23	21.62		
10	24	0		23.55	23.89	24.23		
10	1	1	16-QAM	23.81	23.67	24.16	18.86	0.0769
10	1	1	64-QAM	22.29	22.24	22.77		
10	1	1	256-QAM	20.16	20.44	20.53		
Limit	EIRP < 1W			Result			Pass	

NR n77 PC2 Maximum Average Power [dBm] (GT - LC = -5.3 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
15	1	1	PI/2 BPSK	24.74	25.05	24.73	19.89	0.0975
15	1	36		24.72	24.88	25.19		
15	18	9		24.55	24.81	24.95		
15	1	0		21.31	21.41	21.32		
15	1	37		21.10	21.23	21.53		
15	36	0		24.05	24.32	24.47		
15	1	1	QPSK	24.84	24.98	25.01		
15	1	36		24.62	24.65	25.13		
15	18	9		24.71	24.90	25.06		
15	1	0		21.17	21.34	21.43		
15	1	37		21.24	21.30	21.64		
15	36	0		23.62	23.75	23.83		
15	1	1	16-QAM	23.54	23.77	23.93	18.63	0.0729
15	1	1	64-QAM	22.26	22.83	22.25		
15	1	1	256-QAM	20.16	20.53	20.41		
Limit	EIRP < 1W			Result			Pass	

NR n77 PC2 Maximum Average Power [dBm] (GT - LC = -5.3 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
20	1	1	PI/2 BPSK	24.78	24.89	22.73	19.80	0.0955
20	1	49		24.77	24.61	24.95		
20	25	12		24.63	24.86	24.93		
20	1	0		21.19	21.33	21.28		
20	1	50		21.28	21.22	21.46		
20	50	0		24.06	24.36	24.32		
20	1	1	QPSK	24.68	24.89	24.83		
20	1	49		24.81	24.75	25.10		
20	25	12		24.58	24.73	24.96		
20	1	0		21.21	21.35	21.43		
20	1	50		21.26	21.32	21.50		
20	50	0		23.56	23.81	23.99		
20	1	1	16-QAM	23.90	24.17	23.87	18.87	0.0771
20	1	1	64-QAM	22.32	22.41	22.30		
20	1	1	256-QAM	20.23	20.32	20.26		
Limit	EIRP < 1W			Result			Pass	

NR n77 PC2 Maximum Average Power [dBm] (GT - LC = -5.3 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
25	1	1	PI/2 BPSK	24.85	25.14	25.00	19.84	0.0964
25	1	63		24.69	24.67	25.11		
25	32	16		24.76	24.85	24.86		
25	1	0		21.31	21.51	21.40		
25	1	64		21.12	21.14	21.42		
25	64	0		24.35	24.29	24.44		
25	1	1	QPSK	24.89	24.98	24.82		
25	1	63		24.69	24.85	25.09		
25	32	16		24.73	24.86	24.85		
25	1	0		21.33	21.58	21.37		
25	1	64		21.17	21.33	21.49		
25	64	0		23.79	23.88	23.80		
25	1	1	16-QAM	23.84	24.20	23.80	18.90	0.0776
25	1	1	64-QAM	22.32	22.53	22.47		
25	1	1	256-QAM	20.33	20.40	20.28		
Limit	EIRP < 1W			Result			Pass	

NR n77 PC2 Maximum Average Power [dBm] (GT - LC = -5.3 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
30	1	1	PI/2 BPSK	24.87	25.00	25.04	19.90	0.0977
30	1	76		24.77	24.59	25.14		
30	36	18		24.74	24.91	24.81		
30	1	0		21.25	21.52	21.52		
30	1	77		21.08	21.19	21.61		
30	75	0		24.28	24.36	24.47		
30	1	1	QPSK	24.74	24.99	25.02		
30	1	76		24.69	24.74	25.20		
30	36	18		24.65	24.72	24.95		
30	1	0		21.26	21.50	21.52		
30	1	77		21.17	21.30	21.59		
30	75	0		23.81	23.83	23.87		
30	1	1	16-QAM	23.88	24.00	24.18	18.88	0.0773
30	1	1	64-QAM	22.29	22.65	22.75		
30	1	1	256-QAM	20.46	20.31	20.66		
Limit	EIRP < 1W			Result			Pass	

NR n77 PC2 Maximum Average Power [dBm] (GT - LC = -5.3 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
40	1	1	PI/2 BPSK	24.82	25.05	24.92	19.76	0.0946
40	1	104		24.79	24.71	24.97		
40	50	25		24.84	24.77	24.81		
40	1	0		21.23	21.60	21.44		
40	1	105		21.33	21.14	21.39		
40	100	0		24.37	24.24	24.24		
40	1	1	QPSK	24.88	25.06	25.03		
40	1	104		25.03	24.71	24.98		
40	50	25		24.85	24.82	24.80		
40	1	0		21.42	21.56	21.39		
40	1	105		21.48	21.25	21.41		
40	100	0		23.71	23.81	23.83		
40	1	1	16-QAM	24.15	23.76	24.20	18.90	0.0776
40	1	1	64-QAM	22.70	22.51	22.15		
40	1	1	256-QAM	20.25	20.53	20.50		
Limit	EIRP < 1W			Result			Pass	

NR n77 PC2 Maximum Average Power [dBm] (GT - LC = -5.3 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
50	1	1	PI/2 BPSK	25.04	24.74	25.00	19.79	0.0953
50	1	131		24.67	24.60	24.90		
50	64	32		24.71	24.83	24.90		
50	1	0		21.39	21.36	21.48		
50	1	132		21.12	21.13	21.38		
50	128	0		24.12	24.23	24.48		
50	1	1	QPSK	24.86	24.92	25.09		
50	1	131		24.67	24.63	24.86		
50	64	32		24.61	24.72	24.92		
50	1	0		21.36	21.40	21.66		
50	1	132		21.19	21.11	21.34		
50	128	0		23.61	23.73	23.79		
50	1	1	16-QAM	23.96	23.88	23.78	18.66	0.0735
50	1	1	64-QAM	22.29	22.61	22.80		
50	1	1	256-QAM	20.41	20.40	20.49		
Limit	EIRP < 1W			Result			Pass	

NR n77 PC2 Maximum Average Power [dBm] (GT - LC = -5.3 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
60	1	1	PI/2 BPSK	24.91	24.81	25.23	19.99	0.0998
60	1	160		24.71	24.57	25.00		
60	81	40		24.83	24.82	24.82		
60	1	0		21.38	21.25	21.56		
60	1	161		21.14	21.05	21.40		
60	162	0		24.47	24.30	24.42		
60	1	1	QPSK	25.08	24.90	25.29		
60	1	160		24.63	24.61	24.95		
60	81	40		24.82	24.86	24.94		
60	1	0		21.46	21.29	21.67		
60	1	161		21.35	21.19	21.50		
60	162	0		23.96	23.82	23.87		
60	1	1	16-QAM	24.28	23.95	24.14	18.98	0.0791
60	1	1	64-QAM	22.60	22.56	22.44		
60	1	1	256-QAM	20.84	20.61	20.63		
Limit	EIRP < 1W			Result			Pass	

NR n77 PC2 Maximum Average Power [dBm] (GT - LC = -5.3 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
70	1	1	PI/2 BPSK	25.05	25.02	25.06	19.88	0.0973
70	1	187		24.62	24.72	24.68		
70	90	45		24.91	24.71	24.85		
70	1	0		21.56	21.66	21.71		
70	1	188		21.06	21.24	21.18		
70	180	0		24.46	24.35	24.28		
70	1	1	QPSK	24.95	25.17	25.18		
70	1	187		24.63	24.78	24.64		
70	90	45		25.02	24.77	24.90		
70	1	0		21.60	21.68	21.69		
70	1	188		21.05	21.29	21.16		
70	180	0		24.01	23.78	23.91		
70	1	1	16-QAM	24.02	23.90	24.11	18.81	0.0760
70	1	1	64-QAM	22.57	22.66	22.67		
70	1	1	256-QAM	20.65	20.62	20.81		
Limit	EIRP < 1W			Result			Pass	

NR n77 PC2 Maximum Average Power [dBm] (GT - LC = -5.3 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
80	1	1	PI/2 BPSK	20.16	24.96	25.08	19.81	0.0957
80	1	215		24.70	24.75	25.04		
80	108	54		24.80	24.88	24.73		
80	1	0		21.61	21.64	21.74		
80	1	216		21.21	21.32	21.67		
80	216	0		24.31	24.45	24.33		
80	1	1	QPSK	25.07	25.00	25.01		
80	1	215		24.67	24.77	25.11		
80	108	54		24.88	24.93	24.87		
80	1	0		21.69	21.67	21.66		
80	1	216		21.23	21.40	21.71		
80	216	0		23.95	23.83	23.77		
80	1	1	16-QAM	24.43	24.18	24.09	19.13	0.0818
80	1	1	64-QAM	22.81	22.55	22.66		
80	1	1	256-QAM	20.80	20.53	20.63		
Limit	EIRP < 1W			Result			Pass	

NR n77 PC2 Maximum Average Power [dBm] (GT - LC = -5.3 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
90	1	1	PI/2 BPSK	25.10	25.04	25.06	20.03	0.1007
90	1	243		24.59	25.02	25.11		
90	120	60		24.72	24.76	24.97		
90	1	0		21.59	21.65	21.62		
90	1	244		21.37	21.63	21.79		
90	243	0		24.41	24.37	24.43		
90	1	1	QPSK	25.33	25.10	25.09		
90	1	243		24.76	24.98	25.17		
90	120	60		24.77	24.86	24.86		
90	1	0		21.80	21.66	21.70		
90	1	244		21.43	21.64	21.71		
90	243	0		23.89	23.76	23.85		
90	1	1	16-QAM	24.40	24.25	24.03	19.10	0.0813
90	1	1	64-QAM	22.68	22.64	22.88		
90	1	1	256-QAM	20.63	20.84	20.89		
Limit	EIRP < 1W			Result			Pass	

NR n77 PC2 Maximum Average Power [dBm] (GT - LC = -5.3 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
100	1	1	PI/2 BPSK	-	25.67	-	20.37	0.1089
100	1	271		-	25.28	-		
100	135	67		-	25.34	-		
100	1	0		-	22.24	-		
100	1	272		-	21.93	-		
100	270	0		-	24.73	-		
100	1	1	QPSK	-	25.64	-		
100	1	271		-	25.35	-		
100	135	67		-	25.32	-		
100	1	0		-	22.22	-		
100	1	272		-	21.87	-		
100	270	0		-	24.26	-		
100	1	1	16-QAM	-	24.64	-	19.34	0.0859
100	1	1	64-QAM	-	23.03	-		
100	1	1	256-QAM	-	21.05	-		
Limit	EIRP < 1W			Result			Pass	

MIMO <Ant. 6+1>

Part27Q NR n77 PC2 Maximum Average Power [dBm], DG = -4.4 dBi														
BW	RB	RB	Mod	Antenna 6			Antenna 1			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
10	1	1	QPSK	21.23	21.21	21.18	21.15	21.32	21.19	24.20	24.28	24.20	20.07	0.1016
10	1	22		21.20	21.14	21.52	21.00	21.12	21.40	24.11	24.14	24.47		
10	12	6		21.30	21.22	21.50	21.02	21.14	21.30	24.17	24.19	24.41		
10	1	0		19.24	19.19	19.19	19.20	19.37	19.22	22.23	22.29	22.22		
10	1	23		19.18	19.07	19.57	19.01	19.09	19.26	22.11	22.09	22.43		
10	24	0		19.74	19.69	20.02	19.53	19.56	19.84	22.65	22.64	22.94		
10	1	1	16-QAM	20.37	20.72	20.62	20.67	20.71	20.70	23.53	23.73	23.67	19.33	0.0857
10	1	1	64-QAM	19.20	19.41	19.01	19.04	19.22	19.19	22.13	22.33	22.11		
10	1	1	256-QAM	16.25	16.03	16.14	16.33	16.27	16.02	19.30	19.16	19.09		
Limit	EIRP < 1W			Result									Pass	

Part27Q NR n77 PC2 Maximum Average Power [dBm], DG = -4.4 dBi														
BW	RB	RB	Mod	Antenna 6			Antenna 1			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
15	1	1	QPSK	21.21	21.25	21.08	21.24	21.34	21.10	24.24	24.31	24.10	19.99	0.0998
15	1	36		21.09	21.04	21.44	21.14	21.06	21.31	24.13	24.06	24.39		
15	19	9		19.83	19.68	21.20	19.57	19.66	21.14	22.71	22.68	24.18		
15	1	0		19.29	19.28	19.08	19.29	19.42	19.07	22.30	22.36	22.09		
15	1	37		19.04	19.04	19.41	19.12	19.01	19.23	22.09	22.04	22.33		
15	38	0		19.78	19.67	19.65	19.54	19.62	19.63	22.67	22.66	22.65		
15	1	1	16-QAM	20.84	20.56	20.63	20.74	21.00	20.67	23.80	23.80	23.66	19.40	0.0871
15	1	1	64-QAM	19.28	19.30	19.04	19.15	19.23	19.06	22.23	22.28	22.06		
15	1	1	256-QAM	16.02	16.27	15.97	16.20	16.21	16.02	19.12	19.25	19.01		
Limit	EIRP < 1W			Result									Pass	

Part27Q NR n77 PC2 Maximum Average Power [dBm], DG = -4.4 dBi														
BW	RB	RB	Mod	Antenna 6			Antenna 1			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
20	1	1	QPSK	21.30	21.31	21.19	21.27	21.40	21.04	24.30	24.37	24.13	19.97	0.0993
20	1	49		21.21	21.27	21.42	21.11	20.94	21.17	24.17	24.12	24.31		
20	25	12		21.31	21.20	21.15	21.13	21.20	21.09	24.23	24.21	24.13		
20	1	0		19.32	19.28	19.20	19.33	19.37	19.08	22.34	22.34	22.15		
20	1	50		19.09	19.22	19.42	19.11	18.97	19.22	22.11	22.11	22.33		
20	51	0		19.79	19.72	19.61	19.57	19.64	19.57	22.69	22.69	22.60		
20	1	1	16-QAM	20.92	20.62	20.81	20.83	20.98	20.62	23.89	23.81	23.73	19.49	0.0889
20	1	1	64-QAM	19.15	19.16	19.05	19.14	19.45	18.90	22.16	22.32	21.99		
20	1	1	256-QAM	16.25	16.27	16.10	16.20	16.21	15.98	19.24	19.25	19.05		
Limit	EIRP < 1W			Result									Pass	

Part27Q NR n77 PC2 Maximum Average Power [dBm], DG = -4.4 dBi														
BW	RB	RB	Mod	Antenna 6			Antenna 1			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
25	1	1	QPSK	21.31	21.34	21.23	21.47	21.31	20.95	24.40	24.34	24.10	20.00	0.1000
25	1	63		21.15	21.20	21.37	21.01	20.93	21.10	24.09	24.08	24.25		
25	33	16		21.20	21.16	21.07	21.24	21.06	21.03	24.23	24.12	24.06		
25	1	0		19.35	19.32	19.19	19.47	19.31	18.93	22.42	22.33	22.07		
25	1	64		19.14	19.16	19.41	19.04	18.88	19.14	22.10	22.03	22.29		
25	65	0		19.71	19.65	19.54	19.74	19.61	19.47	22.74	22.64	22.52		
25	1	1	16-QAM	20.95	20.76	20.49	20.74	20.83	20.56	23.86	23.81	23.54	19.46	0.0883
25	1	1	64-QAM	19.14	19.22	19.13	19.30	19.36	18.88	22.23	22.30	22.02		
25	1	1	256-QAM	16.26	16.12	16.01	16.20	16.33	15.96	19.24	19.24	19.00		
Limit	EIRP < 1W			Result									Pass	

Part27Q NR n77 PC2 Maximum Average Power [dBm], DG = -4.4 dBi														
BW	RB	RB	Mod	Antenna 6			Antenna 1			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
30	1	1	QPSK	21.32	21.34	21.12	21.29	21.31	21.19	24.32	24.34	24.17	20.00	0.1000
30	1	76		21.00	21.09	21.44	21.02	20.94	21.33	24.02	24.03	24.40		
30	39	19		21.14	21.23	21.11	21.12	21.14	21.07	24.14	24.20	24.10		
30	1	0		19.35	19.38	19.19	19.33	19.33	19.20	22.35	22.37	22.21		
30	1	77		19.09	19.14	19.43	18.99	18.94	19.31	22.05	22.05	22.38		
30	78	0		19.59	19.70	19.66	19.63	19.69	19.61	22.62	22.71	22.65		
30	1	1	16-QAM	20.81	20.87	20.69	20.79	20.79	20.70	23.81	23.84	23.71	19.44	0.0879
30	1	1	64-QAM	19.32	19.20	19.07	19.22	19.31	19.07	22.28	22.27	22.08		
30	1	1	256-QAM	16.25	16.37	16.27	16.15	16.41	16.16	19.21	19.40	19.23		
Limit	EIRP < 1W			Result									Pass	

Part27Q NR n77 PC2 Maximum Average Power [dBm], DG = -4.4 dBi														
BW	RB	RB	Mod	Antenna 6			Antenna 1			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
40	1	1	QPSK	21.40	21.39	21.39	21.37	21.35	21.19	24.40	24.38	24.30	20.00	0.1000
40	1	104		21.22	20.97	21.44	21.11	20.93	21.16	24.18	23.96	24.31		
40	53	26		21.14	21.19	21.18	21.20	21.19	21.00	24.18	24.20	24.10		
40	1	0		19.40	19.41	19.43	19.40	19.32	19.12	22.41	22.38	22.29		
40	1	105		19.14	19.01	19.38	19.21	18.87	19.26	22.19	21.95	22.33		
40	106	0		19.73	16.77	19.64	19.67	19.66	19.50	22.71	21.46	22.58		
40	1	1	16-QAM	20.93	20.94	20.81	20.79	20.97	20.62	23.87	23.97	23.73	19.57	0.0906
40	1	1	64-QAM	19.29	19.33	19.34	19.25	19.34	19.05	22.28	22.35	22.21		
40	1	1	256-QAM	16.40	16.35	16.32	16.76	16.46	16.04	19.59	19.42	19.19		
Limit	EIRP < 1W			Result									Pass	

Part27Q NR n77 PC2 Maximum Average Power [dBm], DG = -4.4 dBi														
BW	RB	RB	Mod	Antenna 6			Antenna 1			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
50	1	1	QPSK	21.45	21.41	21.32	21.41	21.29	21.30	24.44	24.36	24.32	20.04	0.1009
50	1	131		21.03	21.02	21.31	20.94	20.99	21.10	24.00	24.02	24.22		
50	67	33		21.10	21.23	21.09	21.01	21.16	20.84	24.07	24.21	23.98		
50	1	0		19.55	19.51	19.37	19.45	19.34	19.35	22.51	22.44	22.37		
50	1	132		19.09	19.04	19.29	19.03	18.93	19.14	22.07	22.00	22.23		
50	133	0		19.66	19.73	19.64	19.52	19.72	19.37	22.60	22.74	22.52		
50	1	1	16-QAM	20.62	20.83	20.90	21.02	20.76	20.74	23.83	23.81	23.83	19.43	0.0877
50	1	1	64-QAM	19.36	19.02	19.33	19.43	19.15	19.25	22.41	22.10	22.30		
50	1	1	256-QAM	16.47	16.37	16.32	16.51	16.32	16.15	19.50	19.36	19.25		
Limit	EIRP < 1W			Result									Pass	

Part27Q NR n77 PC2 Maximum Average Power [dBm], DG = -4.4 dBi														
BW	RB	RB	Mod	Antenna 6			Antenna 1			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
60	1	1	QPSK	21.76	21.47	21.54	21.63	21.31	21.16	24.71	24.40	24.36	20.31	0.1074
60	1	160		21.40	21.11	21.15	21.02	20.91	20.96	24.22	24.02	24.07		
60	81	40		21.41	21.20	21.07	21.23	21.14	21.02	24.33	24.18	24.06		
60	1	0		19.84	19.43	19.65	19.62	19.32	19.19	22.74	22.39	22.44		
60	1	161		19.38	19.02	19.18	18.94	18.92	19.00	22.18	21.98	22.10		
60	162	0		19.94	19.76	19.62	19.74	19.70	19.53	22.85	22.74	22.59		
60	1	1	16-QAM	21.24	21.02	21.02	21.24	20.77	20.71	24.25	23.91	23.88	19.85	0.0966
60	1	1	64-QAM	19.70	19.47	19.52	19.58	19.22	19.13	22.65	22.36	22.34		
60	1	1	256-QAM	16.67	16.41	16.55	16.64	16.35	16.13	19.67	19.39	19.36		
Limit	EIRP < 1W			Result									Pass	

Part27Q NR n77 PC2 Maximum Average Power [dBm], DG = -4.4 dBi														
BW	RB	RB	Mod	Antenna 6			Antenna 1			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
70	1	1	QPSK	21.66	21.53	21.62	21.74	21.49	21.61	24.71	24.52	24.63	20.31	0.1074
70	1	187		21.04	21.29	21.55	20.96	21.02	21.33	24.01	24.17	24.45		
70	95	47		21.27	21.23	21.33	21.19	21.15	21.06	24.24	24.20	24.21		
70	1	0		19.75	19.65	19.60	19.68	19.58	19.61	22.73	22.63	22.62		
70	1	188		19.00	19.20	19.49	18.84	19.11	19.34	21.93	22.17	22.43		
70	189	0		19.82	19.81	19.89	19.71	19.70	19.56	22.78	22.77	22.74		
70	1	1	16-QAM	20.99	20.79	21.03	21.22	21.11	21.84	24.12	23.96	24.46	20.06	0.1014
70	1	1	64-QAM	19.51	19.51	19.66	19.44	19.45	19.58	22.49	22.49	22.63		
70	1	1	256-QAM	16.53	16.46	16.57	16.40	16.48	16.62	19.48	19.48	19.61		
Limit	EIRP < 1W			Result									Pass	

Part27Q NR n77 PC2 Maximum Average Power [dBm], DG = -4.4 dBi														
BW	RB	RB	Mod	Antenna 6			Antenna 1			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
80	1	1	QPSK	21.81	21.80	21.68	21.66	21.58	21.50	24.75	24.70	24.60	20.35	0.1084
80	1	215		21.30	21.17	21.55	20.92	21.09	21.25	24.12	24.14	24.41		
80	109	54		21.26	21.22	21.34	21.39	21.17	21.02	24.34	24.21	24.19		
80	1	0		19.76	19.83	19.67	19.78	19.66	19.46	22.78	22.76	22.58		
80	1	216		19.30	19.16	19.56	18.91	19.14	19.31	22.12	22.16	22.45		
80	217	0		19.94	19.80	19.89	19.91	19.77	19.61	22.94	22.80	22.76		
80	1	1	16-QAM	20.96	21.19	21.45	21.33	21.12	20.01	24.16	24.17	23.80	19.77	0.0948
80	1	1	64-QAM	19.64	19.69	19.72	19.53	19.57	19.45	22.60	22.64	22.60		
80	1	1	256-QAM	16.75	16.83	16.78	16.67	16.72	16.55	19.72	19.79	19.68		
Limit	EIRP < 1W			Result									Pass	

Part27Q NR n77 PC2 Maximum Average Power [dBm], DG = -4.4 dBi														
BW	RB	RB	Mod	Antenna 6			Antenna 1			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
90	1	1	QPSK	21.95	21.90	21.91	21.96	21.77	21.70	24.97	24.85	24.82	20.57	0.1140
90	1	243		21.11	21.57	21.65	21.14	21.39	21.37	24.14	24.49	24.52		
90	123	61		21.22	21.23	21.32	21.24	21.22	21.24	24.24	24.24	24.29		
90	1	0		19.93	20.08	19.97	19.95	19.86	19.78	22.95	22.98	22.89		
90	1	244		19.19	19.57	19.75	19.17	19.50	19.45	22.19	22.55	22.61		
90	245	0		19.79	19.89	19.88	19.89	19.79	19.74	22.85	22.85	22.82		
90	1	1	16-QAM	21.52	21.37	21.44	21.40	21.28	21.22	24.47	24.34	24.34	20.07	0.1016
90	1	1	64-QAM	20.00	19.97	19.85	19.66	19.87	19.53	22.84	22.93	22.70		
90	1	1	256-QAM	16.97	16.86	16.91	16.74	16.55	16.73	19.87	19.72	19.83		
Limit	EIRP < 1W			Result									Pass	

Part27Q NR n77 PC2 Maximum Average Power [dBm], DG = -4.4 dBi														
BW	RB	RB	Mod	Antenna 6			Antenna 1			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
100	1	1	QPSK	-	22.00	-	-	21.99	-	-	25.01	-	20.61	0.1151
100	1	271		-	21.91	-	-	21.69	-	-	24.81	-		
100	137	68		-	21.26	-	-	21.20	-	-	24.24	-		
100	1	0		-	20.09	-	-	20.05	-	-	23.08	-		
100	1	272		-	19.73	-	-	19.52	-	-	22.64	-		
100	273	0		-	19.87	-	-	19.77	-	-	22.83	-		
100	1	1	16-QAM	-	21.44	-	-	21.72	-	-	24.59	-	20.19	0.1045
100	1	1	64-QAM	-	19.78	-	-	19.95	-	-	22.88	-		
100	1	1	256-QAM	-	17.12	-	-	17.06	-	-	20.10	-		
Limit	EIRP < 1W			Result									Pass	

MIMO <Ant. 7+5>

Part27Q NR n77 PC2 Maximum Average Power [dBm], DG = -3.1 dBi														
BW	RB	RB	Mod	Antenna 7			Antenna 5			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
10	1	1	QPSK	20.68	20.59	20.65	20.64	20.68	20.60	23.67	23.64	23.64	20.74	0.1186
10	1	22		20.51	20.60	20.94	20.31	20.52	20.72	23.42	23.57	23.84		
10	12	6		20.66	20.65	20.81	20.44	20.58	20.74	23.56	23.63	23.78		
10	1	0		18.65	18.59	18.54	18.62	18.76	18.54	21.65	21.68	21.55		
10	1	23		18.66	18.52	18.92	18.39	18.54	18.74	21.54	21.54	21.84		
10	24	0		19.04	19.12	19.48	18.88	19.03	19.15	21.97	22.09	22.33		
10	1	1	16-QAM	19.82	20.06	20.07	19.99	20.14	20.11	22.92	23.11	23.10	20.01	0.1002
10	1	1	64-QAM	18.53	18.85	18.50	18.37	18.66	18.58	21.46	21.76	21.55		
10	1	1	256-QAM	15.74	15.41	15.56	15.81	15.61	15.37	18.78	18.52	18.48		
Limit	EIRP < 1W			Result									Pass	

Part27Q NR n77 PC2 Maximum Average Power [dBm], DG = -3.1 dBi														
BW	RB	RB	Mod	Antenna 7			Antenna 5			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
15	1	1	QPSK	20.60	20.68	20.44	20.67	20.75	20.43	23.64	23.73	23.45	20.75	0.1189
15	1	36		20.44	20.51	20.90	20.56	20.45	20.78	23.51	23.49	23.85		
15	19	9		19.29	19.01	20.57	18.95	19.05	20.58	22.14	22.04	23.58		
15	1	0		18.59	18.71	18.51	18.68	18.79	18.52	21.65	21.76	21.52		
15	1	37		18.39	18.54	18.81	18.62	18.48	18.71	21.52	21.52	21.77		
15	38	0		19.20	19.08	19.03	18.98	19.04	19.04	22.10	22.07	22.05		
15	1	1	16-QAM	20.19	19.89	19.99	20.19	20.35	20.10	23.20	23.14	23.06	20.10	0.1023
15	1	1	64-QAM	18.67	18.79	18.40	18.56	18.61	18.38	21.63	21.71	21.40		
15	1	1	256-QAM	15.34	15.60	15.44	15.52	15.65	15.42	18.44	18.63	18.44		
Limit	EIRP < 1W			Result									Pass	

Part27Q NR n77 PC2 Maximum Average Power [dBm], DG = -3.1 dBi														
BW	RB	RB	Mod	Antenna 7			Antenna 5			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
20	1	1	QPSK	20.76	20.70	20.63	20.69	20.84	20.43	23.74	23.78	23.54	20.68	0.1169
20	1	49		20.51	20.75	20.86	20.54	20.39	20.57	23.54	23.58	23.73		
20	25	12		20.62	20.52	20.51	20.44	20.56	20.47	23.54	23.55	23.50		
20	1	0		18.74	18.65	18.67	18.80	18.84	18.42	21.78	21.75	21.56		
20	1	50		18.53	18.69	18.73	18.56	18.47	18.70	21.55	21.59	21.73		
20	51	0		19.29	19.04	18.94	18.88	19.14	18.87	22.10	22.10	21.92		
20	1	1	16-QAM	20.36	20.04	20.12	20.19	20.30	19.93	23.29	23.18	23.03	20.19	0.1045
20	1	1	64-QAM	18.49	18.65	18.37	18.48	18.85	18.35	21.50	21.76	21.37		
20	1	1	256-QAM	15.75	15.65	15.47	15.51	15.63	15.40	18.64	18.65	18.45		
Limit	EIRP < 1W			Result									Pass	

Part27Q NR n77 PC2 Maximum Average Power [dBm], DG = -3.1 dBi														
BW	RB	RB	Mod	Antenna 7			Antenna 5			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
25	1	1	QPSK	20.67	20.78	20.68	20.96	20.71	20.35	23.83	23.76	23.53	20.73	0.1183
25	1	63		20.51	20.64	20.68	20.38	20.41	20.54	23.46	23.54	23.62		
25	33	16		20.58	20.52	20.56	20.72	20.54	20.41	23.66	23.54	23.50		
25	1	0		18.76	18.62	18.63	18.88	18.65	18.38	21.83	21.65	21.52		
25	1	64		18.57	18.58	18.82	18.51	18.36	18.57	21.55	21.48	21.71		
25	65	0		19.12	18.95	18.99	19.06	19.03	18.88	22.10	22.01	21.94		
25	1	1	16-QAM	20.42	20.11	19.84	20.08	20.25	19.89	23.27	23.19	22.88	20.17	0.1040
25	1	1	64-QAM	18.53	18.69	18.57	18.80	18.83	18.27	21.68	21.77	21.43		
25	1	1	256-QAM	15.71	15.61	15.47	15.52	15.68	15.30	18.63	18.66	18.40		
Limit	EIRP < 1W			Result									Pass	

Part27Q NR n77 PC2 Maximum Average Power [dBm], DG = -3.1 dBi														
BW	RB	RB	Mod	Antenna 7			Antenna 5			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
30	1	1	QPSK	20.70	20.65	20.61	20.61	20.65	20.68	23.67	23.66	23.66	20.70	0.1175
30	1	76		20.43	20.55	20.93	20.49	20.42	20.64	23.47	23.50	23.80		
30	39	19		20.56	20.69	20.47	20.46	20.45	20.38	23.52	23.58	23.44		
30	1	0		18.81	18.72	18.59	18.68	18.77	18.60	21.76	21.76	21.61		
30	1	77		18.51	18.48	18.87	18.36	18.37	18.69	21.45	21.44	21.79		
30	78	0		19.03	19.09	19.03	19.08	19.18	18.97	22.07	22.15	22.01		
30	1	1	16-QAM	20.26	20.34	20.18	20.11	20.14	20.07	23.19	23.25	23.14	20.15	0.1035
30	1	1	64-QAM	18.70	18.59	18.55	18.64	18.81	18.52	21.68	21.71	21.54		
30	1	1	256-QAM	15.61	15.81	15.66	15.62	15.76	15.54	18.62	18.79	18.61		
Limit	EIRP < 1W			Result									Pass	

Part27Q NR n77 PC2 Maximum Average Power [dBm], DG = -3.1 dBi														
BW	RB	RB	Mod	Antenna 7			Antenna 5			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
40	1	1	QPSK	20.79	20.84	20.88	20.82	20.68	20.52	23.82	23.77	23.72	20.72	0.1180
40	1	104		20.71	20.28	20.76	20.60	20.26	20.59	23.67	23.28	23.68		
40	53	26		20.53	20.53	20.63	20.66	20.67	20.41	23.61	23.61	23.53		
40	1	0		18.79	18.79	18.84	18.78	18.70	18.49	21.79	21.76	21.68		
40	1	105		18.59	18.38	18.80	18.59	18.22	18.72	21.60	21.31	21.77		
40	106	0		19.11	16.24	19.07	19.16	19.03	18.98	22.15	20.86	22.04		
40	1	1	16-QAM	20.36	20.24	20.26	20.14	20.42	20.12	23.26	23.34	23.20	20.24	0.1057
40	1	1	64-QAM	18.74	18.77	18.79	18.75	18.69	18.44	21.75	21.74	21.63		
40	1	1	256-QAM	15.73	15.73	15.73	16.14	15.85	15.44	18.95	18.80	18.60		
Limit	EIRP < 1W			Result									Pass	

Part27Q NR n77 PC2 Maximum Average Power [dBm], DG = -3.1 dBi														
BW	RB	RB	Mod	Antenna 7			Antenna 5			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
50	1	1	QPSK	20.81	20.90	20.71	20.80	20.60	20.78	23.82	23.76	23.75	20.72	0.1180
50	1	131		20.41	20.42	20.69	20.32	20.32	20.45	23.37	23.38	23.58		
50	67	33		20.46	20.59	20.45	20.46	20.52	20.30	23.47	23.57	23.39		
50	1	0		18.97	18.89	18.71	18.89	18.80	18.83	21.94	21.86	21.78		
50	1	132		18.43	18.46	18.73	18.40	18.33	18.53	21.42	21.41	21.64		
50	133	0		18.96	19.08	19.01	18.87	19.08	18.80	21.92	22.09	21.92		
50	1	1	16-QAM	20.10	20.25	20.36	20.42	20.16	20.08	23.27	23.22	23.23	20.17	0.1040
50	1	1	64-QAM	18.77	18.37	18.79	18.78	18.58	18.69	21.78	21.49	21.75		
50	1	1	256-QAM	15.86	15.84	15.78	15.93	15.73	15.58	18.91	18.80	18.69		
Limit	EIRP < 1W			Result									Pass	

Part27Q NR n77 PC2 Maximum Average Power [dBm], DG = -3.1 dBi														
BW	RB	RB	Mod	Antenna 7			Antenna 5			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
60	1	1	QPSK	21.25	20.89	20.94	20.95	20.67	20.56	24.11	23.79	23.77	21.01	0.1262
60	1	160		20.87	20.47	20.45	20.36	20.40	20.44	23.63	23.44	23.45		
60	81	40		20.78	20.57	20.37	20.61	20.50	20.35	23.71	23.55	23.37		
60	1	0		19.28	18.93	19.11	19.06	18.74	18.59	22.18	21.84	21.87		
60	1	161		18.81	18.48	18.52	18.38	18.24	18.39	21.61	21.37	21.47		
60	162	0		19.41	19.13	18.95	19.12	19.19	18.84	22.28	22.17	21.91		
60	1	1	16-QAM	20.57	20.35	20.44	20.72	20.10	20.10	23.66	23.24	23.29	20.56	0.1138
60	1	1	64-QAM	19.00	18.84	18.95	18.88	18.62	18.48	21.95	21.74	21.73		
60	1	1	256-QAM	16.05	15.75	15.96	16.07	15.73	15.52	19.07	18.75	18.76		
Limit	EIRP < 1W			Result									Pass	

Part27Q NR n77 PC2 Maximum Average Power [dBm], DG = -3.1 dBi														
BW	RB	RB	Mod	Antenna 7			Antenna 5			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
70	1	1	QPSK	21.00	20.84	20.99	21.10	20.84	21.00	24.06	23.85	24.00	20.96	0.1247
70	1	187		20.44	20.78	20.96	20.38	20.44	20.71	23.42	23.62	23.85		
70	95	47		20.59	20.68	20.70	20.63	20.52	20.45	23.62	23.61	23.59		
70	1	0		19.10	18.95	19.05	19.14	19.01	18.94	22.13	21.99	22.00		
70	1	188		18.31	18.61	18.94	18.30	18.42	18.81	21.32	21.53	21.89		
70	189	0		19.14	19.22	19.36	19.20	19.06	18.90	22.18	22.15	22.15		
70	1	1	16-QAM	20.30	20.16	20.51	20.63	20.55	21.27	23.48	23.37	23.91	20.81	0.1205
70	1	1	64-QAM	18.82	18.98	18.98	18.81	18.83	19.03	21.83	21.92	22.02		
70	1	1	256-QAM	16.01	15.93	15.98	15.80	15.82	15.96	18.92	18.89	18.98		
Limit	EIRP < 1W			Result									Pass	

Part27Q NR n77 PC2 Maximum Average Power [dBm], DG = -3.1 dBi														
BW	RB	RB	Mod	Antenna 7			Antenna 5			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
80	1	1	QPSK	21.27	21.17	21.16	21.00	21.02	20.80	24.15	24.10	24.00	21.05	0.1274
80	1	215		20.62	20.63	21.02	20.32	20.41	20.69	23.48	23.53	23.87		
80	109	54		20.67	20.62	20.69	20.86	20.66	20.42	23.78	23.65	23.57		
80	1	0		19.13	19.16	19.15	19.16	19.00	18.80	22.15	22.09	21.99		
80	1	216		18.72	18.59	18.94	18.28	18.46	18.61	21.52	21.54	21.79		
80	217	0		19.36	19.22	19.25	19.29	19.21	18.93	22.34	22.22	22.10		
80	1	1	16-QAM	20.43	20.53	20.93	20.72	20.60	19.45	23.59	23.57	23.26	20.49	0.1119
80	1	1	64-QAM	18.94	19.01	19.03	18.91	18.91	18.77	21.94	21.97	21.91		
80	1	1	256-QAM	16.11	16.25	16.11	16.06	16.15	16.01	19.10	19.21	19.07		
Limit	EIRP < 1W			Result									Pass	

Part27Q NR n77 PC2 Maximum Average Power [dBm], DG = -3.1 dBi														
BW	RB	RB	Mod	Antenna 7			Antenna 5			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
90	1	1	QPSK	21.33	21.26	21.26	21.40	21.17	21.10	24.37	24.22	24.19	21.27	0.1340
90	1	243		20.45	20.89	20.99	20.52	20.71	20.71	23.50	23.81	23.86		
90	123	61		20.59	20.60	20.71	20.59	20.70	20.67	23.60	23.66	23.70		
90	1	0		19.29	19.51	19.46	19.42	19.24	19.23	22.36	22.39	22.35		
90	1	244		18.68	18.95	19.08	18.47	18.90	18.85	21.59	21.94	21.97		
90	245	0		19.12	19.21	19.29	19.21	19.22	19.05	22.17	22.23	22.18		
90	1	1	16-QAM	20.86	20.76	20.92	20.80	20.75	20.63	23.84	23.76	23.79	20.74	0.1186
90	1	1	64-QAM	19.32	19.47	19.21	19.08	19.24	19.03	22.21	22.37	22.13		
90	1	1	256-QAM	16.42	16.17	16.28	16.08	15.98	16.23	19.26	19.08	19.26		
Limit	EIRP < 1W			Result									Pass	

Part27Q NR n77 PC2 Maximum Average Power [dBm], DG = -3.1 dBi														
BW	RB	RB	Mod	Antenna 7			Antenna 5			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
100	1	1	QPSK	-	21.38	-	-	21.35	-	-	24.38	-	21.28	0.1343
100	1	271		-	21.40	-	-	21.11	-	-	24.27	-		
100	137	68		-	20.58	-	-	20.66	-	-	23.63	-		
100	1	0		-	19.54	-	-	19.45	-	-	22.51	-		
100	1	272		-	19.17	-	-	18.96	-	-	22.08	-		
100	273	0		-	19.21	-	-	19.20	-	-	22.22	-		
100	1	1	16-QAM	-	20.80	-	-	21.16	-	-	23.99	-	20.89	0.1227
100	1	1	64-QAM	-	19.15	-	-	19.38	-	-	22.28	-		
100	1	1	256-QAM	-	16.56	-	-	16.40	-	-	19.49	-		
Limit	EIRP < 1W			Result									Pass	

MIMO <Ant. 6+5>

Part27Q NR n77 PC2 Maximum Average Power [dBm], DG = -3.1 dBi														
BW	RB	RB	Mod	Antenna 6			Antenna 5			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
10	1	1	QPSK	20.69	20.55	20.49	20.61	20.65	20.62	23.66	23.61	23.57	20.76	0.1191
10	1	22		20.54	20.58	20.84	20.34	20.49	20.83	23.45	23.55	23.85		
10	12	6		20.69	20.61	20.90	20.36	20.51	20.80	23.54	23.57	23.86		
10	1	0		18.70	18.68	18.68	18.67	18.79	18.64	21.70	21.74	21.67		
10	1	23		18.57	18.37	19.01	18.51	18.43	18.75	21.55	21.41	21.89		
10	24	0		19.05	19.04	19.50	18.84	19.05	19.31	21.95	22.05	22.42		
10	1	1	16-QAM	19.86	20.20	19.96	20.01	20.14	20.13	22.94	23.18	23.06	20.08	0.1019
10	1	1	64-QAM	18.55	18.82	18.35	18.35	18.54	18.54	21.46	21.69	21.46		
10	1	1	256-QAM	15.74	15.52	15.59	15.82	15.75	15.49	18.79	18.65	18.55		
Limit	EIRP < 1W			Result									Pass	

Part27Q NR n77 PC2 Maximum Average Power [dBm], DG = -3.1 dBi														
BW	RB	RB	Mod	Antenna 6			Antenna 5			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
15	1	1	QPSK	20.56	20.68	20.40	20.62	20.77	20.43	23.60	23.74	23.42	20.68	0.1169
15	1	36		20.45	20.45	20.93	20.58	20.41	20.61	23.52	23.44	23.78		
15	19	9		19.25	19.18	20.70	18.97	19.07	20.49	22.12	22.13	23.61		
15	1	0		18.60	18.58	18.45	18.73	18.78	18.54	21.67	21.69	21.50		
15	1	37		18.46	18.35	18.81	18.57	18.45	18.69	21.52	21.41	21.76		
15	38	0		19.12	19.05	19.01	18.88	19.04	19.03	22.01	22.05	22.03		
15	1	1	16-QAM	20.24	19.87	20.10	20.15	20.38	20.03	23.21	23.14	23.08	20.11	0.1026
15	1	1	64-QAM	18.74	18.65	18.43	18.59	18.64	18.44	21.68	21.66	21.45		
15	1	1	256-QAM	15.36	15.63	15.28	15.62	15.56	15.40	18.50	18.61	18.35		
Limit	EIRP < 1W			Result									Pass	

Part27Q NR n77 PC2 Maximum Average Power [dBm], DG = -3.1 dBi														
BW	RB	RB	Mod	Antenna 6			Antenna 5			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
20	1	1	QPSK	20.63	20.62	20.53	20.60	20.88	20.37	23.62	23.76	23.46	20.67	0.1167
20	1	49		20.52	20.65	20.91	20.58	20.27	20.60	23.56	23.47	23.77		
20	25	12		20.65	20.68	20.52	20.50	20.65	20.44	23.58	23.68	23.49		
20	1	0		18.77	18.71	18.68	18.65	18.71	18.55	21.72	21.72	21.62		
20	1	50		18.39	18.62	18.85	18.61	18.45	18.54	21.51	21.55	21.71		
20	51	0		19.11	19.09	19.05	19.05	18.98	19.01	22.09	22.04	22.04		
20	1	1	16-QAM	20.26	20.11	20.28	20.20	20.30	19.98	23.24	23.22	23.14	20.14	0.1033
20	1	1	64-QAM	18.53	18.65	18.40	18.46	18.83	18.33	21.50	21.75	21.37		
20	1	1	256-QAM	15.61	15.70	15.43	15.54	15.52	15.44	18.59	18.62	18.45		
Limit	EIRP < 1W			Result									Pass	

Part27Q NR n77 PC2 Maximum Average Power [dBm], DG = -3.1 dBi														
BW	RB	RB	Mod	Antenna 6			Antenna 5			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
25	1	1	QPSK	20.68	20.83	20.60	20.96	20.73	20.28	23.83	23.79	23.45	20.73	0.1183
25	1	63		20.56	20.57	20.73	20.35	20.42	20.59	23.47	23.51	23.67		
25	33	16		20.69	20.59	20.48	20.71	20.50	20.49	23.71	23.56	23.50		
25	1	0		18.73	18.72	18.63	18.78	18.64	18.34	21.77	21.69	21.50		
25	1	64		18.56	18.66	18.73	18.35	18.25	18.51	21.46	21.47	21.63		
25	65	0		19.20	19.03	18.96	19.16	19.08	18.94	22.19	22.06	21.96		
25	1	1	16-QAM	20.32	20.15	19.87	20.19	20.14	19.98	23.27	23.15	22.94	20.17	0.1040
25	1	1	64-QAM	18.59	18.55	18.45	18.78	18.82	18.33	21.70	21.70	21.40		
25	1	1	256-QAM	15.57	15.59	15.33	15.70	15.71	15.34	18.65	18.66	18.35		
Limit	EIRP < 1W			Result									Pass	

Part27Q NR n77 PC2 Maximum Average Power [dBm], DG = -3.1 dBi														
BW	RB	RB	Mod	Antenna 6			Antenna 5			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
30	1	1	QPSK	20.70	20.81	20.51	20.69	20.72	20.67	23.71	23.77	23.60	20.68	0.1169
30	1	76		20.40	20.56	20.86	20.46	20.41	20.67	23.44	23.50	23.78		
30	39	19		20.48	20.72	20.57	20.54	20.53	20.45	23.52	23.64	23.52		
30	1	0		18.82	18.84	18.64	18.65	18.78	18.55	21.74	21.82	21.60		
30	1	77		18.46	18.50	18.91	18.30	18.29	18.73	21.39	21.41	21.84		
30	78	0		18.99	19.10	19.15	18.98	19.12	18.93	21.99	22.12	22.05		
30	1	1	16-QAM	20.29	20.18	20.02	20.09	20.22	20.08	23.20	23.21	23.06	20.11	0.1026
30	1	1	64-QAM	18.81	18.65	18.41	18.53	18.68	18.46	21.68	21.67	21.44		
30	1	1	256-QAM	15.74	15.78	15.70	15.53	15.76	15.51	18.65	18.78	18.62		
Limit	EIRP < 1W			Result									Pass	

Part27Q NR n77 PC2 Maximum Average Power [dBm], DG = -3.1 dBi														
BW	RB	RB	Mod	Antenna 6			Antenna 5			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
40	1	1	QPSK	20.80	20.88	20.76	20.72	20.84	20.60	23.77	23.87	23.69	20.77	0.1194
40	1	104		20.71	20.32	20.79	20.50	20.37	20.51	23.62	23.36	23.66		
40	53	26		20.62	20.68	20.50	20.60	20.66	20.48	23.62	23.68	23.50		
40	1	0		18.88	18.85	18.89	18.85	18.66	18.55	21.88	21.77	21.73		
40	1	105		18.47	18.34	18.81	18.53	18.23	18.63	21.51	21.30	21.74		
40	106	0		19.11	16.09	18.95	19.17	19.13	18.87	22.15	20.88	21.92		
40	1	1	16-QAM	20.24	20.32	20.18	20.19	20.35	20.04	23.22	23.34	23.12	20.24	0.1057
40	1	1	64-QAM	18.63	18.83	18.74	18.63	18.79	18.37	21.64	21.82	21.57		
40	1	1	256-QAM	15.72	15.69	15.66	16.17	15.91	15.49	18.96	18.81	18.58		
Limit	EIRP < 1W			Result									Pass	

Part27Q NR n77 PC2 Maximum Average Power [dBm], DG = -3.1 dBi														
BW	RB	RB	Mod	Antenna 6			Antenna 5			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
50	1	1	QPSK	20.93	20.86	20.76	20.72	20.72	20.63	23.84	23.80	23.71	20.74	0.1186
50	1	131		20.41	20.51	20.72	20.37	20.43	20.58	23.40	23.48	23.66		
50	67	33		20.45	20.69	20.42	20.50	20.64	20.20	23.48	23.67	23.32		
50	1	0		18.89	18.95	18.73	18.83	18.75	18.72	21.87	21.86	21.74		
50	1	132		18.47	18.45	18.77	18.34	18.28	18.61	21.42	21.37	21.70		
50	133	0		19.16	19.08	18.96	18.95	19.21	18.79	22.07	22.15	21.89		
50	1	1	16-QAM	20.01	20.25	20.26	20.32	20.18	20.04	23.18	23.22	23.16	20.12	0.1028
50	1	1	64-QAM	18.69	18.38	18.73	18.90	18.46	18.67	21.81	21.43	21.71		
50	1	1	256-QAM	15.95	15.69	15.81	15.85	15.72	15.48	18.91	18.72	18.66		
Limit	EIRP < 1W			Result									Pass	

Part27Q NR n77 PC2 Maximum Average Power [dBm], DG = -3.1 dBi														
BW	RB	RB	Mod	Antenna 6			Antenna 5			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
60	1	1	QPSK	21.25	20.88	20.97	21.12	20.80	20.53	24.19	23.85	23.76	21.09	0.1285
60	1	160		20.81	20.47	20.63	20.47	20.30	20.31	23.65	23.40	23.48		
60	81	40		20.78	20.59	20.42	20.60	20.62	20.43	23.70	23.61	23.43		
60	1	0		19.16	18.88	19.14	19.01	18.66	18.54	22.09	21.78	21.86		
60	1	161		18.72	18.32	18.62	18.33	18.23	18.37	21.54	21.29	21.51		
60	162	0		19.38	19.23	19.11	19.08	19.03	18.90	22.24	22.14	22.01		
60	1	1	16-QAM	20.67	20.48	20.48	20.56	20.15	20.20	23.62	23.33	23.36	20.52	0.1127
60	1	1	64-QAM	19.01	18.85	18.83	18.99	18.52	18.44	22.01	21.70	21.65		
60	1	1	256-QAM	16.03	15.71	15.95	15.94	15.65	15.50	19.00	18.69	18.74		
Limit	EIRP < 1W			Result									Pass	

Part27Q NR n77 PC2 Maximum Average Power [dBm], DG = -3.1 dBi														
BW	RB	RB	Mod	Antenna 6			Antenna 5			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
70	1	1	QPSK	21.14	20.96	21.08	21.07	20.85	20.95	24.12	23.91	24.03	21.02	0.1265
70	1	187		20.41	20.62	20.94	20.45	20.43	20.76	23.44	23.54	23.86		
70	95	47		20.58	20.53	20.73	20.50	20.48	20.43	23.55	23.52	23.59		
70	1	0		19.06	19.07	19.05	19.10	18.91	19.00	22.09	22.00	22.04		
70	1	188		18.34	18.67	18.94	18.26	18.56	18.68	21.31	21.63	21.82		
70	189	0		19.15	19.16	19.33	19.02	19.05	19.01	22.09	22.12	22.19		
70	1	1	16-QAM	20.44	20.24	20.35	20.64	20.44	21.31	23.55	23.36	23.87	20.77	0.1194
70	1	1	64-QAM	18.87	18.99	19.03	18.82	18.84	19.00	21.86	21.93	22.03		
70	1	1	256-QAM	16.01	15.90	16.05	15.84	15.86	16.09	18.93	18.89	19.08		
Limit	EIRP < 1W			Result									Pass	

Part27Q NR n77 PC2 Maximum Average Power [dBm], DG = -3.1 dBi														
BW	RB	RB	Mod	Antenna 6			Antenna 5			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
80	1	1	QPSK	21.11	21.14	21.14	21.00	21.07	20.92	24.07	24.11	24.04	21.01	0.1262
80	1	215		20.76	20.48	21.00	20.32	20.51	20.61	23.56	23.50	23.82		
80	109	54		20.68	20.70	20.83	20.87	20.55	20.51	23.79	23.64	23.68		
80	1	0		19.10	19.27	19.00	19.18	18.97	18.90	22.15	22.13	21.96		
80	1	216		18.61	18.52	18.95	18.25	18.47	18.75	21.45	21.51	21.86		
80	217	0		19.43	19.23	19.24	19.24	19.23	18.94	22.35	22.24	22.11		
80	1	1	16-QAM	20.30	20.67	20.89	20.74	20.49	19.42	23.54	23.59	23.23	20.49	0.1119
80	1	1	64-QAM	19.10	19.14	19.18	18.99	18.96	18.82	22.05	22.06	22.01		
80	1	1	256-QAM	16.24	16.17	16.26	16.05	16.06	15.97	19.16	19.13	19.13		
Limit	EIRP < 1W			Result									Pass	

Part27Q NR n77 PC2 Maximum Average Power [dBm], DG = -3.1 dBi														
BW	RB	RB	Mod	Antenna 6			Antenna 5			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
90	1	1	QPSK	21.27	21.35	21.25	21.37	21.20	21.10	24.33	24.28	24.19	21.23	0.1327
90	1	243		20.41	21.05	21.11	20.46	20.88	20.81	23.45	23.97	23.97		
90	123	61		20.70	20.57	20.64	20.67	20.62	20.63	23.69	23.60	23.65		
90	1	0		19.33	19.38	19.31	19.31	19.19	19.19	22.33	22.30	22.26		
90	1	244		18.50	18.93	19.20	18.57	18.87	18.87	21.55	21.91	22.05		
90	245	0		19.18	19.23	19.31	19.38	19.09	19.19	22.29	22.17	22.26		
90	1	1	16-QAM	20.94	20.78	20.86	20.90	20.76	20.66	23.93	23.78	23.77	20.83	0.1211
90	1	1	64-QAM	19.47	19.29	19.34	19.10	19.33	18.89	22.30	22.32	22.13		
90	1	1	256-QAM	16.33	16.33	16.28	16.05	15.99	16.17	19.20	19.18	19.23		
Limit	EIRP < 1W			Result									Pass	

Part27Q NR n77 PC2 Maximum Average Power [dBm], DG = -3.1 dBi														
BW	RB	RB	Mod	Antenna 6			Antenna 5			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
100	1	1	QPSK	-	21.39	-	-	21.45	-	-	24.43	-	21.33	0.1358
100	1	271		-	21.35	-	-	21.07	-	-	24.23	-		
100	137	68		-	20.74	-	-	20.52	-	-	23.64	-		
100	1	0		-	19.55	-	-	19.45	-	-	22.51	-		
100	1	272		-	19.06	-	-	18.97	-	-	22.02	-		
100	273	0		-	19.31	-	-	19.14	-	-	22.24	-		
100	1	1	16-QAM	-	20.88	-	-	21.18	-	-	24.04	-	20.94	0.1242
100	1	1	64-QAM	-	19.12	-	-	19.35	-	-	22.25	-		
100	1	1	256-QAM	-	16.48	-	-	16.45	-	-	19.48	-		
Limit	EIRP < 1W			Result									Pass	

MIMO <Ant. 7+1>

Part27Q NR n77 PC2 Maximum Average Power [dBm], DG = -5.3 dBi														
BW	RB	RB	Mod	Antenna 7			Antenna 1			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
10	1	1	QPSK	19.73	19.54	19.62	20.79	20.97	20.94	23.30	23.32	23.34	18.23	0.0665
10	1	22		19.58	19.49	19.96	20.68	20.87	21.02	23.17	23.24	23.53		
10	12	6		19.69	19.72	19.97	20.69	20.84	20.98	23.23	23.32	23.51		
10	1	0		17.56	17.61	17.49	18.98	19.03	18.92	21.34	21.39	21.28		
10	1	23		17.51	17.56	18.01	18.74	18.85	18.92	21.18	21.26	21.50		
10	24	0		18.15	18.12	18.40	19.23	19.34	19.55	21.73	21.79	22.02		
10	1	1	16-QAM	18.81	19.13	19.12	20.31	20.42	20.36	22.63	22.83	22.80	17.53	0.0566
10	1	1	64-QAM	17.54	17.86	17.37	18.74	18.86	18.95	21.19	21.40	21.24		
10	1	1	256-QAM	14.68	14.45	14.58	15.99	16.00	15.70	18.40	18.30	18.19		
Limit	EIRP < 1W			Result									Pass	

Part27Q NR n77 PC2 Maximum Average Power [dBm], DG = -5.3 dBi														
BW	RB	RB	Mod	Antenna 7			Antenna 1			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
15	1	1	QPSK	19.61	19.70	19.49	20.93	21.14	20.82	23.33	23.49	23.21	18.24	0.0667
15	1	36		19.58	19.51	19.88	20.87	20.83	21.10	23.28	23.23	23.54		
15	19	9		18.19	18.15	19.56	19.24	19.28	20.79	21.76	21.76	23.23		
15	1	0		17.70	17.73	17.39	19.00	19.15	18.81	21.41	21.51	21.17		
15	1	37		17.51	17.47	17.72	18.73	18.67	18.98	21.18	21.12	21.41		
15	38	0		18.19	18.09	18.11	19.16	19.39	19.36	21.71	21.80	21.79		
15	1	1	16-QAM	19.14	18.91	19.02	20.35	20.79	20.42	22.79	22.96	22.79	17.66	0.0583
15	1	1	64-QAM	17.73	17.73	17.48	18.83	18.85	18.76	21.33	21.33	21.18		
15	1	1	256-QAM	14.33	14.70	14.33	15.89	15.88	15.73	18.19	18.34	18.09		
Limit	EIRP < 1W			Result									Pass	

Part27Q NR n77 PC2 Maximum Average Power [dBm], DG = -5.3 dBi														
BW	RB	RB	Mod	Antenna 7			Antenna 1			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
20	1	1	QPSK	19.80	19.66	19.51	21.02	21.16	20.76	23.46	23.49	23.19	18.19	0.0659
20	1	49		19.53	19.66	19.74	20.76	20.66	20.81	23.19	23.20	23.32		
20	25	12		19.65	19.64	19.47	20.73	20.86	20.87	23.24	23.30	23.23		
20	1	0		17.77	17.71	17.60	19.01	19.09	18.69	21.44	21.47	21.19		
20	1	50		17.54	17.61	17.74	18.77	18.74	19.00	21.21	21.22	21.43		
20	51	0		18.21	18.10	18.06	19.37	19.40	19.36	21.84	21.81	21.77		
20	1	1	16-QAM	19.29	19.05	19.20	20.51	20.64	20.29	22.95	22.93	22.79	17.65	0.0582
20	1	1	64-QAM	17.61	17.65	17.44	18.79	19.21	18.66	21.25	21.51	21.10		
20	1	1	256-QAM	14.68	14.67	14.48	16.00	15.85	15.75	18.40	18.31	18.17		
Limit	EIRP < 1W			Result									Pass	

Part27Q NR n77 PC2 Maximum Average Power [dBm], DG = -5.3 dBi														
BW	RB	RB	Mod	Antenna 7			Antenna 1			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
25	1	1	QPSK	19.64	19.72	19.68	21.17	20.93	20.71	23.48	23.38	23.24	18.18	0.0658
25	1	63		19.57	19.55	19.86	20.68	20.63	20.74	23.17	23.13	23.33		
25	33	16		19.66	19.52	19.47	20.89	20.85	20.78	23.32	23.25	23.19		
25	1	0		17.67	17.81	17.59	19.24	18.93	18.63	21.53	21.42	21.15		
25	1	64		17.47	17.60	17.74	18.78	18.64	18.74	21.19	21.16	21.28		
25	65	0		18.04	18.07	17.97	19.52	19.25	19.18	21.85	21.71	21.63		
25	1	1	16-QAM	19.33	19.23	18.93	20.43	20.54	20.18	22.92	22.94	22.61	17.64	0.0581
25	1	1	64-QAM	17.45	17.72	17.61	19.03	19.06	18.66	21.32	21.45	21.18		
25	1	1	256-QAM	14.69	14.45	14.44	15.85	15.95	15.75	18.32	18.27	18.16		
Limit	EIRP < 1W			Result									Pass	

Part27Q NR n77 PC2 Maximum Average Power [dBm], DG = -5.3 dBi														
BW	RB	RB	Mod	Antenna 7			Antenna 1			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
30	1	1	QPSK	19.67	19.71	19.44	21.08	20.98	20.86	23.45	23.40	23.22	18.23	0.0665
30	1	76		19.40	19.40	19.91	20.81	20.64	21.05	23.17	23.08	23.53		
30	39	19		19.59	19.56	19.48	20.86	20.93	20.77	23.28	23.31	23.18		
30	1	0		17.75	17.82	17.62	19.02	19.05	18.82	21.44	21.49	21.27		
30	1	77		17.58	17.61	17.78	18.67	18.68	19.07	21.17	21.19	21.48		
30	78	0		17.91	18.16	17.98	19.38	19.38	19.22	21.72	21.82	21.65		
30	1	1	16-QAM	19.22	19.24	19.04	20.54	20.52	20.43	22.94	22.94	22.80	17.64	0.0581
30	1	1	64-QAM	17.68	17.69	17.40	18.86	19.00	18.76	21.32	21.41	21.14		
30	1	1	256-QAM	14.62	14.81	14.57	15.90	16.07	15.78	18.32	18.50	18.23		
Limit	EIRP < 1W			Result									Pass	

Part27Q NR n77 PC2 Maximum Average Power [dBm], DG = -5.3 dBi														
BW	RB	RB	Mod	Antenna 7			Antenna 1			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
40	1	1	QPSK	19.70	19.75	19.81	20.99	21.06	20.86	23.41	23.47	23.38	18.17	0.0656
40	1	104		19.68	19.31	19.75	20.78	20.55	20.77	23.27	22.99	23.30		
40	53	26		19.45	19.50	19.57	20.93	20.95	20.65	23.26	23.29	23.15		
40	1	0		17.87	17.85	17.91	19.06	18.92	18.79	21.51	21.43	21.38		
40	1	105		17.55	17.47	17.72	18.84	18.65	18.96	21.25	21.11	21.39		
40	106	0		18.11	15.25	18.10	19.33	19.31	19.24	21.77	20.75	21.72		
40	1	1	16-QAM	19.26	19.33	19.27	20.52	20.69	20.23	22.94	23.07	22.78	17.77	0.0598
40	1	1	64-QAM	17.79	17.82	17.69	18.98	18.96	18.72	21.44	21.44	21.24		
40	1	1	256-QAM	14.82	14.67	14.66	16.39	16.10	15.67	18.68	18.46	18.21		
Limit	EIRP < 1W			Result									Pass	

Part27Q NR n77 PC2 Maximum Average Power [dBm], DG = -5.3 dBi														
BW	RB	RB	Mod	Antenna 7			Antenna 1			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
50	1	1	QPSK	19.79	19.77	19.75	21.04	21.09	20.91	23.47	23.49	23.38	18.19	0.0659
50	1	131		19.49	19.38	19.63	20.69	20.67	20.90	23.15	23.09	23.32		
50	67	33		19.45	19.59	19.45	20.66	20.78	20.57	23.11	23.23	23.06		
50	1	0		18.00	17.92	17.83	19.17	19.08	19.15	21.64	21.55	21.55		
50	1	132		17.47	17.49	17.74	18.78	18.62	18.83	21.19	21.10	21.33		
50	133	0		18.03	18.15	17.96	19.28	19.34	19.16	21.71	21.79	21.61		
50	1	1	16-QAM	19.04	19.21	19.27	20.78	20.44	20.42	23.01	22.88	22.89	17.71	0.0590
50	1	1	64-QAM	17.86	17.45	17.70	19.18	18.81	18.90	21.58	21.19	21.35		
50	1	1	256-QAM	14.86	14.79	14.67	16.12	15.98	15.95	18.55	18.44	18.37		
Limit	EIRP < 1W			Result									Pass	

Part27Q NR n77 PC2 Maximum Average Power [dBm], DG = -5.3 dBi														
BW	RB	RB	Mod	Antenna 7			Antenna 1			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
60	1	1	QPSK	20.24	19.93	19.97	21.30	20.92	20.78	23.81	23.46	23.40	18.51	0.0710
60	1	160		19.75	19.49	19.54	20.68	20.66	20.64	23.25	23.12	23.13		
60	81	40		19.75	19.51	19.46	20.96	20.86	20.65	23.41	23.25	23.11		
60	1	0		18.30	17.79	17.98	19.23	18.94	18.86	21.80	21.41	21.45		
60	1	161		17.70	17.36	17.64	18.70	18.61	18.67	21.24	21.04	21.20		
60	162	0		18.32	18.08	18.11	19.40	19.45	19.32	21.90	21.83	21.77		
60	1	1	16-QAM	19.60	19.52	19.47	20.92	20.47	20.43	23.32	23.03	22.99	18.02	0.0634
60	1	1	64-QAM	18.04	17.86	18.01	19.27	19.01	18.82	21.70	21.48	21.45		
60	1	1	256-QAM	15.04	14.79	15.01	16.33	16.00	15.91	18.74	18.45	18.49		
Limit	EIRP < 1W			Result									Pass	

Part27Q NR n77 PC2 Maximum Average Power [dBm], DG = -5.3 dBi														
BW	RB	RB	Mod	Antenna 7			Antenna 1			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
70	1	1	QPSK	20.12	19.92	20.10	21.44	21.14	21.26	23.84	23.58	23.73	18.54	0.0714
70	1	187		19.52	19.78	20.01	20.65	20.68	20.95	23.13	23.26	23.52		
70	95	47		19.72	19.59	19.65	20.85	20.84	20.81	23.33	23.27	23.28		
70	1	0		18.13	18.11	18.03	19.35	19.29	19.30	21.79	21.75	21.72		
70	1	188		17.45	17.54	17.97	18.48	18.79	19.04	21.00	21.22	21.55		
70	189	0		18.17	18.13	18.34	19.43	19.49	19.32	21.85	21.87	21.87		
70	1	1	16-QAM	19.48	19.25	19.36	20.95	20.86	21.51	23.29	23.14	23.58	18.28	0.0673
70	1	1	64-QAM	17.88	17.85	17.97	19.16	19.23	19.23	21.58	21.61	21.65		
70	1	1	256-QAM	14.98	14.80	15.04	16.07	16.13	16.28	18.57	18.52	18.71		
Limit	EIRP < 1W			Result									Pass	

Part27Q NR n77 PC2 Maximum Average Power [dBm], DG = -5.3 dBi														
BW	RB	RB	Mod	Antenna 7			Antenna 1			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
80	1	1	QPSK	20.22	20.23	20.09	21.37	21.20	21.29	23.84	23.75	23.74	18.54	0.0714
80	1	215		19.70	19.62	19.93	20.58	20.76	20.91	23.17	23.24	23.46		
80	109	54		19.69	19.65	19.72	21.17	20.97	20.63	23.50	23.37	23.21		
80	1	0		18.08	18.20	18.10	19.53	19.31	19.16	21.87	21.80	21.67		
80	1	216		17.63	17.55	18.01	18.56	18.88	18.98	21.13	21.27	21.53		
80	217	0		18.35	18.24	18.34	19.52	19.44	19.23	21.99	21.89	21.82		
80	1	1	16-QAM	19.29	19.55	19.91	21.11	20.92	19.64	23.31	23.30	22.79	18.01	0.0632
80	1	1	64-QAM	18.02	18.06	18.10	19.27	19.20	19.05	21.70	21.68	21.61		
80	1	1	256-QAM	15.23	15.22	15.11	16.31	16.39	16.28	18.81	18.85	18.75		
Limit	EIRP < 1W			Result									Pass	

Part27Q NR n77 PC2 Maximum Average Power [dBm], DG = -5.3 dBi														
BW	RB	RB	Mod	Antenna 7			Antenna 1			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
90	1	1	QPSK	20.45	20.39	20.38	21.57	21.57	21.30	24.05	24.03	23.88	18.75	0.0750
90	1	243		19.44	19.89	20.13	20.90	21.18	21.17	23.24	23.60	23.69		
90	123	61		19.68	19.53	19.75	21.02	20.91	20.87	23.41	23.29	23.36		
90	1	0		18.25	18.47	18.38	19.74	19.48	19.39	22.07	22.02	21.92		
90	1	244		17.53	17.94	18.05	18.79	19.17	19.18	21.22	21.61	21.66		
90	245	0		18.16	18.23	18.30	19.54	19.43	19.42	21.92	21.88	21.90		
90	1	1	16-QAM	19.96	19.73	19.83	21.01	20.92	21.02	23.53	23.38	23.48	18.23	0.0665
90	1	1	64-QAM	18.44	18.42	18.23	19.30	19.56	19.28	21.90	22.04	21.80		
90	1	1	256-QAM	15.35	15.20	15.40	16.38	16.34	16.40	18.90	18.82	18.94		
Limit	EIRP < 1W			Result									Pass	

Part27Q NR n77 PC2 Maximum Average Power [dBm], DG = -5.3 dBi														
BW	RB	RB	Mod	Antenna 7			Antenna 1			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
100	1	1	QPSK	-	20.38	-	-	21.70	-	-	24.10	-	18.80	0.0759
100	1	271		-	20.31	-	-	21.43	-	-	23.91	-		
100	137	68		-	19.57	-	-	20.87	-	-	23.28	-		
100	1	0		-	18.49	-	-	19.79	-	-	22.20	-		
100	1	272		-	18.09	-	-	19.31	-	-	21.75	-		
100	273	0		-	18.30	-	-	19.39	-	-	21.89	-		
100	1	1	16-QAM	-	19.93	-	-	21.39	-	-	23.73	-	18.43	0.0697
100	1	1	64-QAM	-	18.09	-	-	19.59	-	-	21.91	-		
100	1	1	256-QAM	-	15.57	-	-	16.70	-	-	19.18	-		
Limit	EIRP < 1W			Result									Pass	

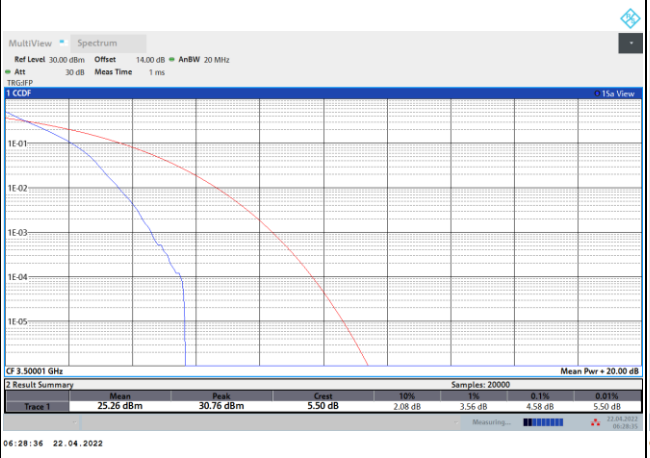
FR1 n77 PC2

Peak-to-Average Ratio

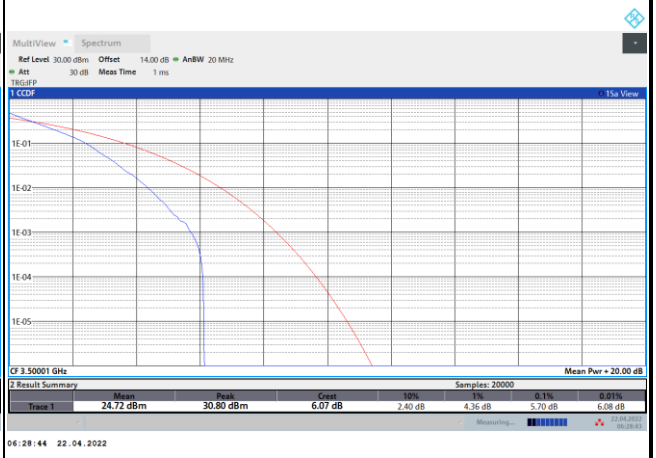
Mode	FR1 n77 / 20MHz / DFT-S OFDM				
Mod.	PI/2 BPSK	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.58	5.70	5.92	5.98	PASS
Mode	FR1 n77 / 20MHz / DFT-S OFDM				
Mod.	256QAM				Limit: 13dB
RB Size	Full RB				Result
Middle CH	9.64				PASS

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

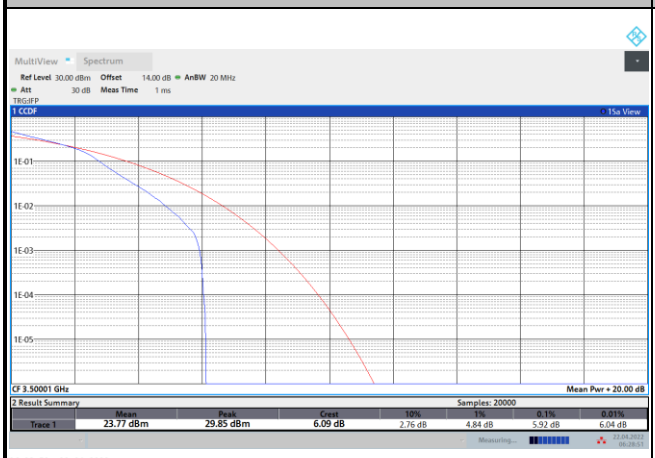
PI/2 BPSK



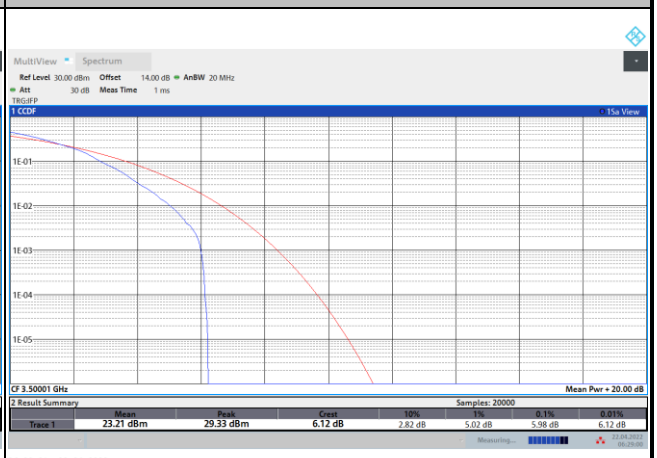
QPSK



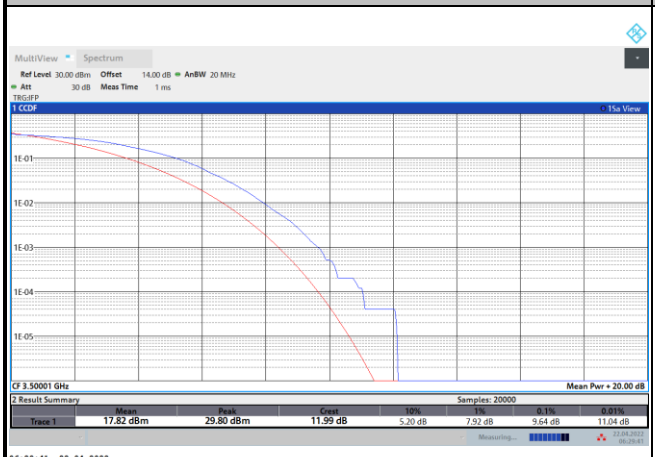
16QAM



64QAM



256QAM



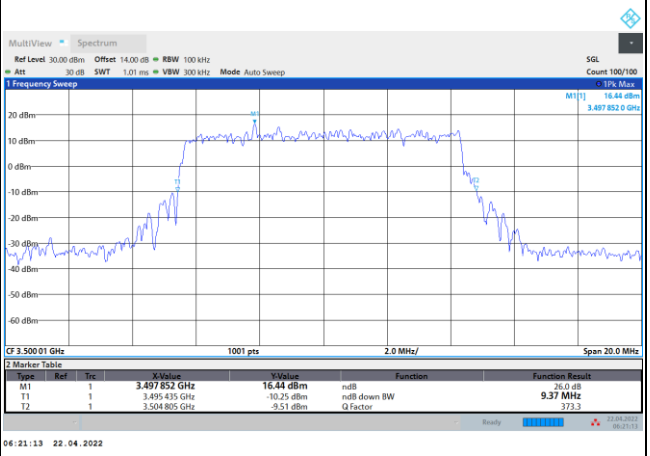
26dB Bandwidth

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	9.37	13.88	19.02	23.73	27.93	38.28	48.25	60.78
BW	70MHz	80MHz	90MHz	100MHz				
Mod.	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK				
Middle CH	66.99	80.88	89.91	99.50				

Mode	FR1 n77 : 26dB BW(MHz) / CP OFDM							
BW	10MHz		15MHz		20MHz		25MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	9.39	9.33	14.57	14.78	19.18	19.22	24.33	24.48
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	9.25	9.27	14.45	14.45	19.38	19.06	24.53	24.48
BW	30MHz		40MHz		50MHz		60MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	29.07	29.25	40.44	40.84	49.95	50.15	60.78	60.66
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	28.95	28.83	40.44	40.52	49.95	50.15	60.54	60.42
BW	70MHz		80MHz		90MHz		100MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	70.21	70.21	80.40	80.24	90.81	90.63	100.90	100.90
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	70.77	70.63	80.88	80.40	90.63	90.81	100.90	100.50

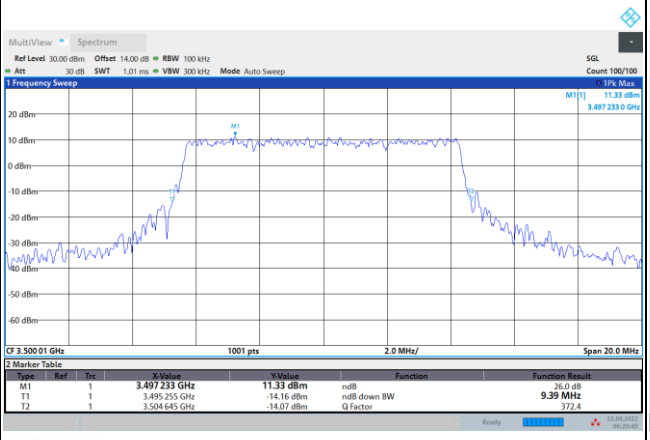
FR1 n77 / 10MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

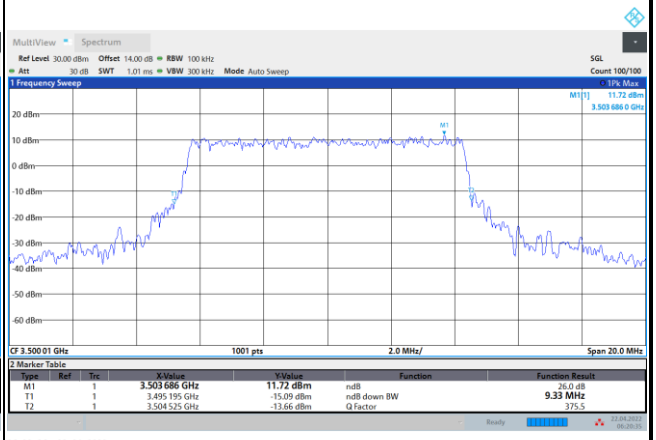


FR1 n77 / 10MHz / CP OFDM / Middle Channel / Full RB

QPSK



16QAM



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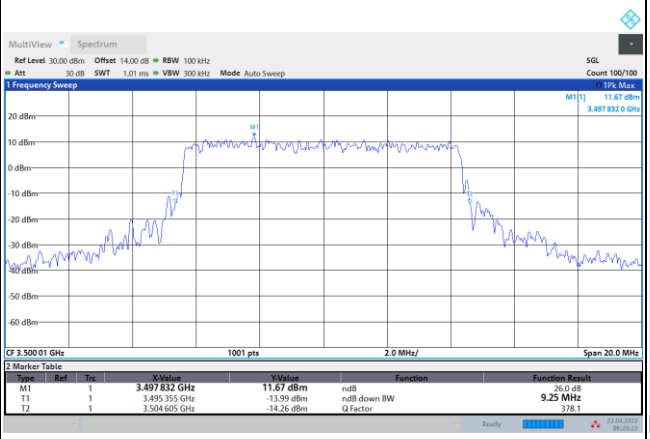

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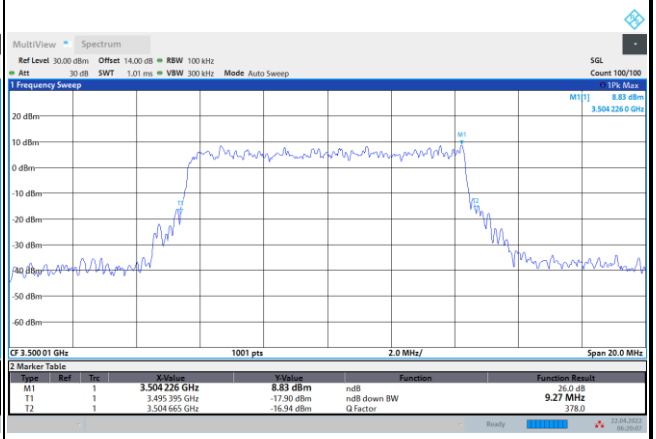
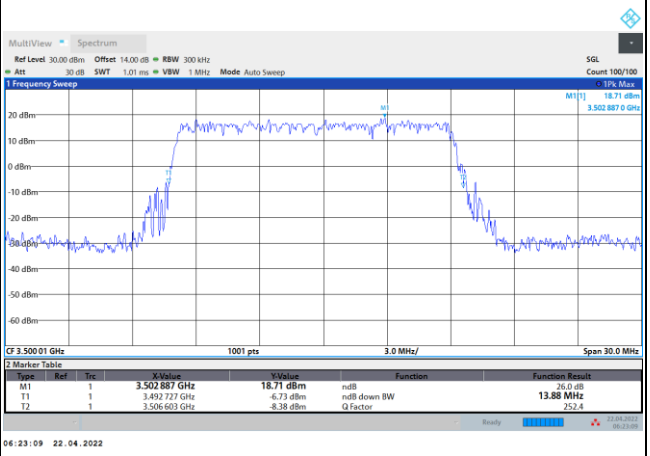


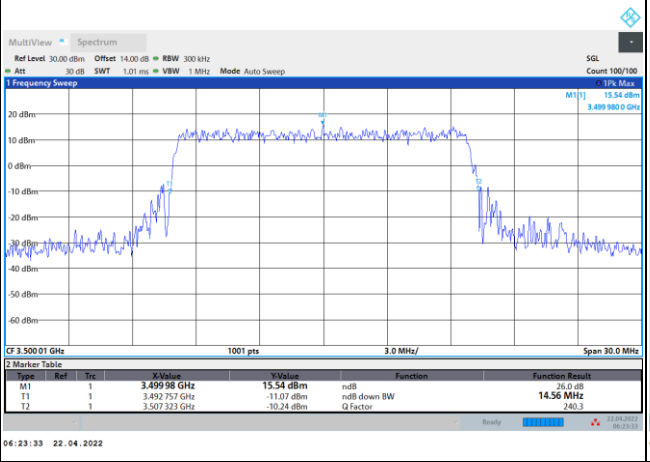
FR1 n77 / 15MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



FR1 n77 / 15MHz / CP OFDM / Middle Channel / Full RB

QPSK



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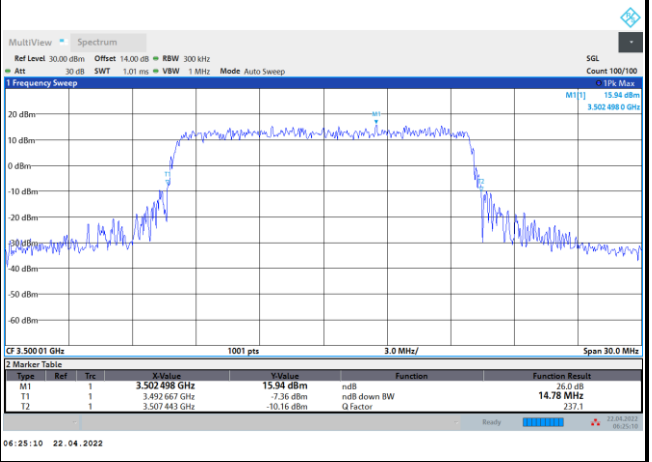

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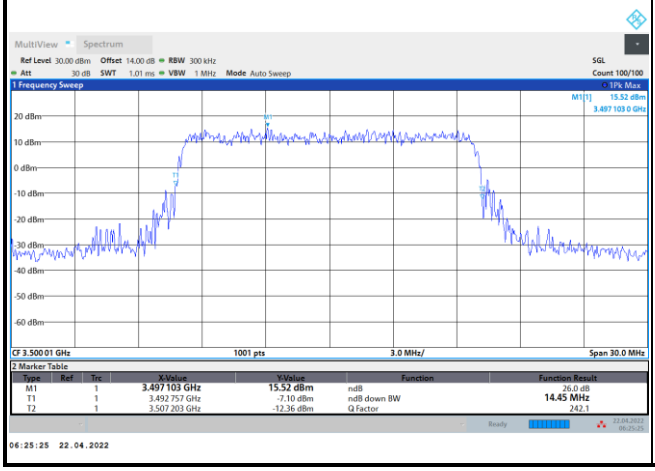

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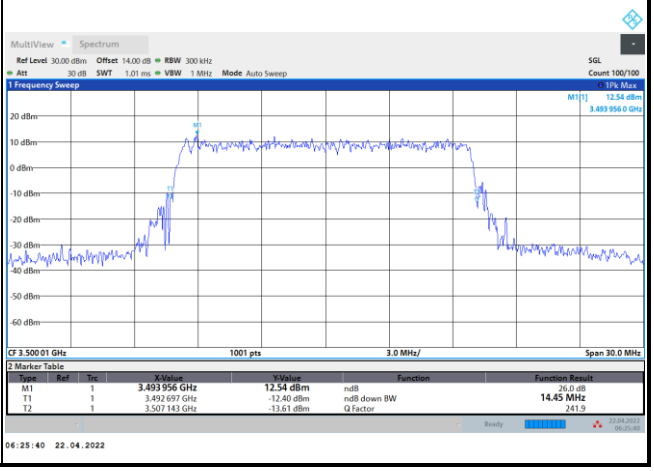
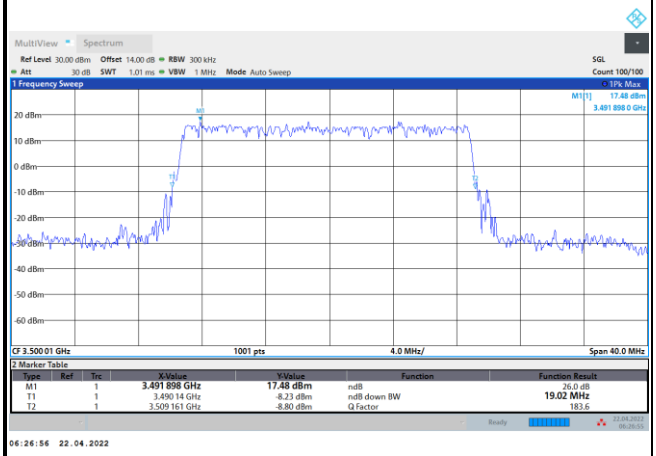


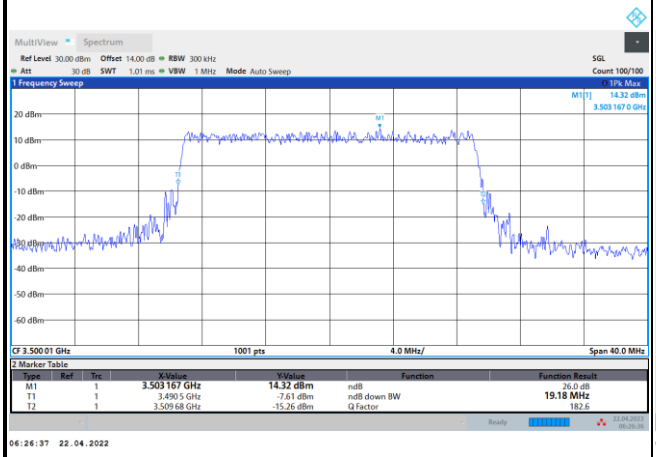
FR1 n77 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



FR1 n77 / 20MHz / CP OFDM / Middle Channel / Full RB

QPSK



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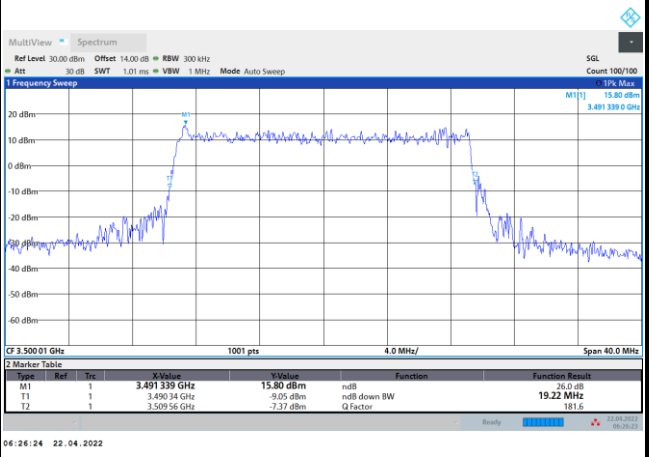

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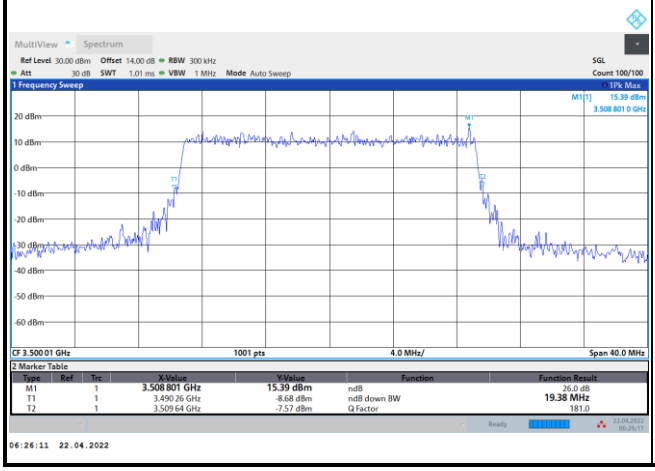

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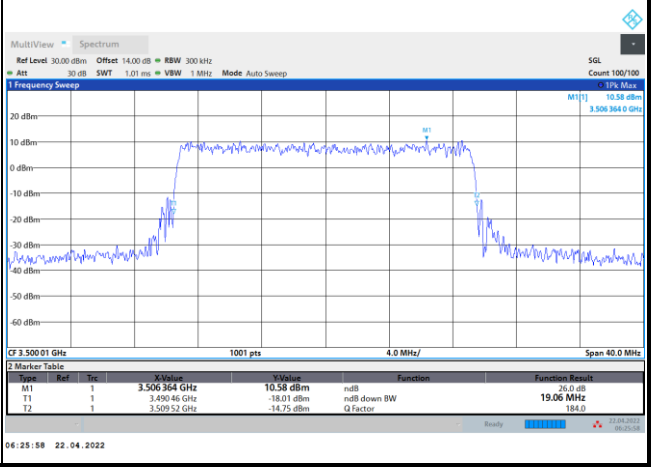
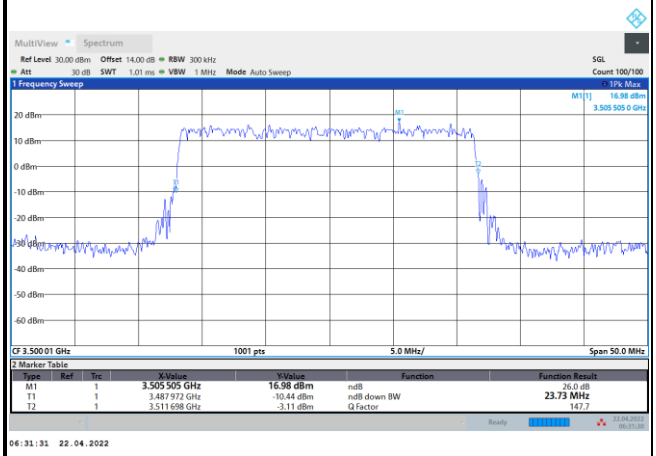


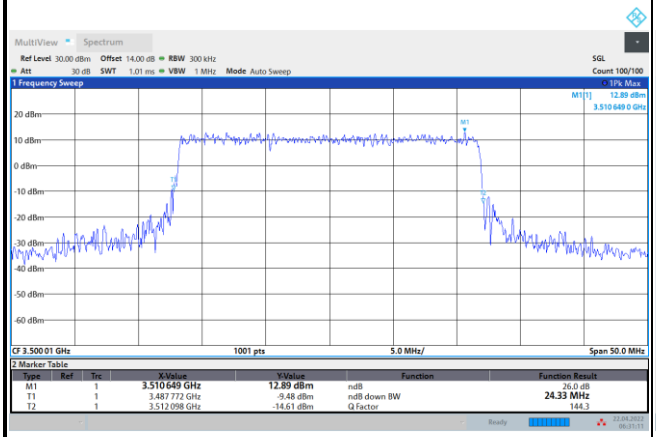
FR1 n77 / 25MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



FR1 n77 / 25MHz / CP OFDM / Middle Channel / Full RB

QPSK



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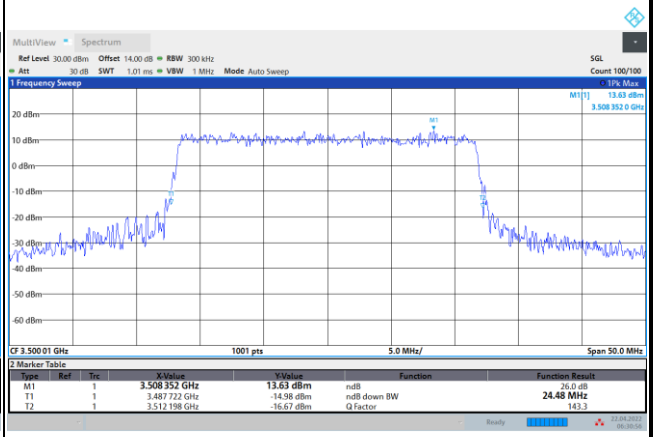

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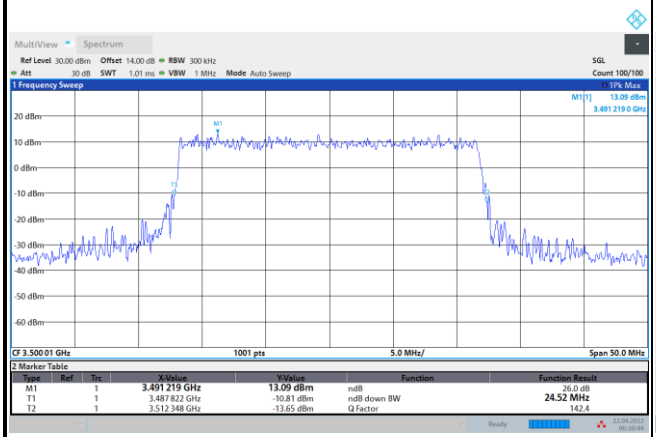

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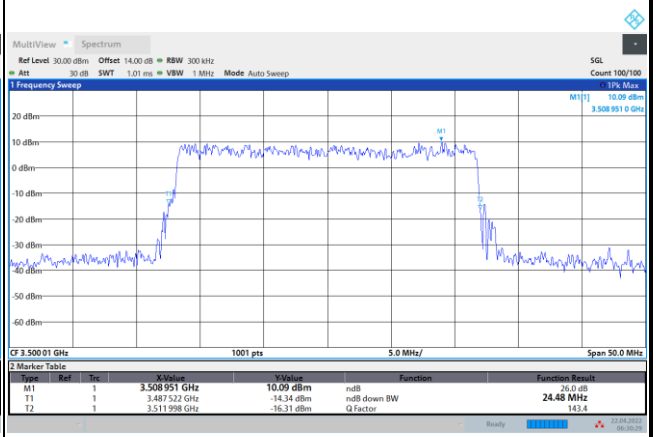
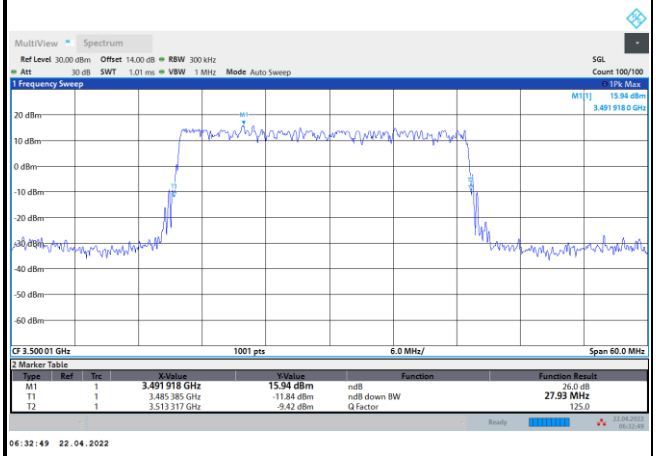


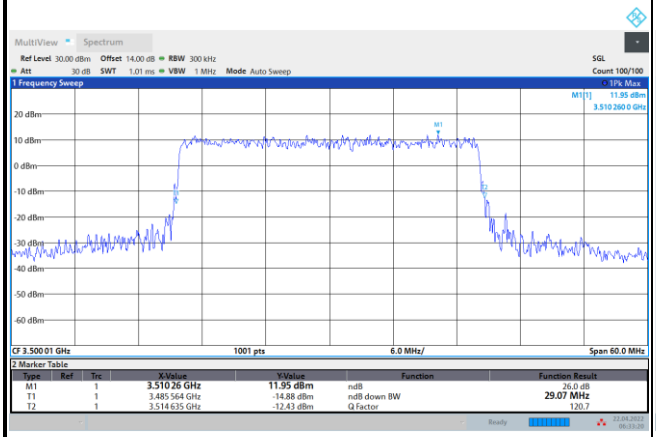
FR1 n77 / 30MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



FR1 n77 / 30MHz / CP OFDM / Middle Channel / Full RB

QPSK



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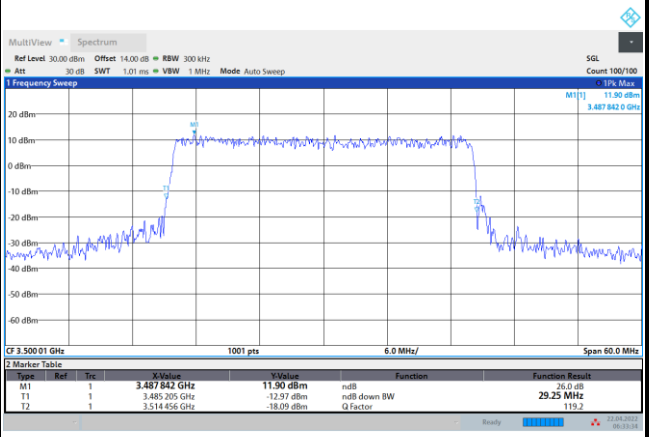

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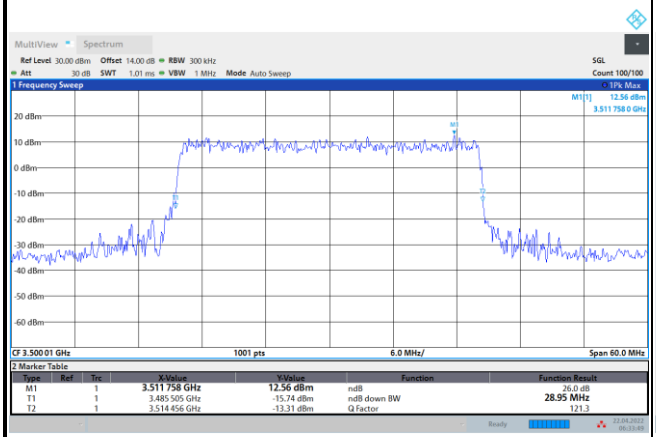

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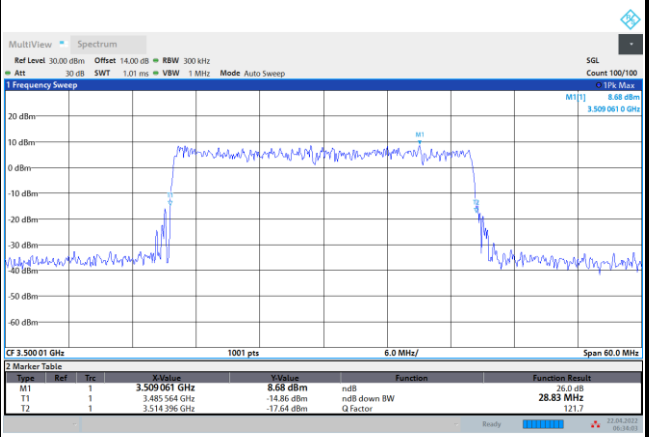
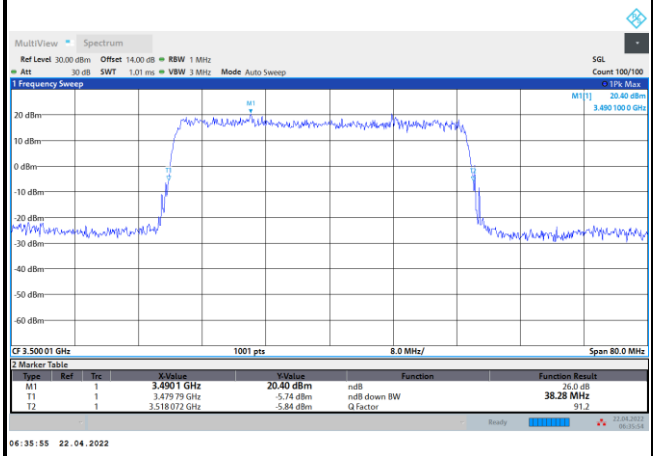


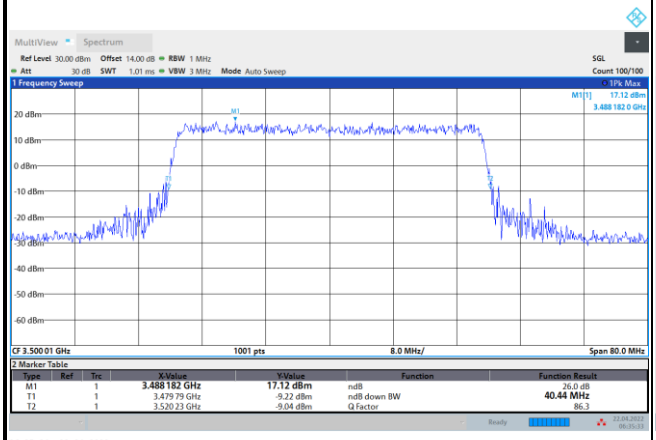
FR1 n77 / 40MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



FR1 n77 / 40MHz / CP OFDM / Middle Channel / Full RB

QPSK



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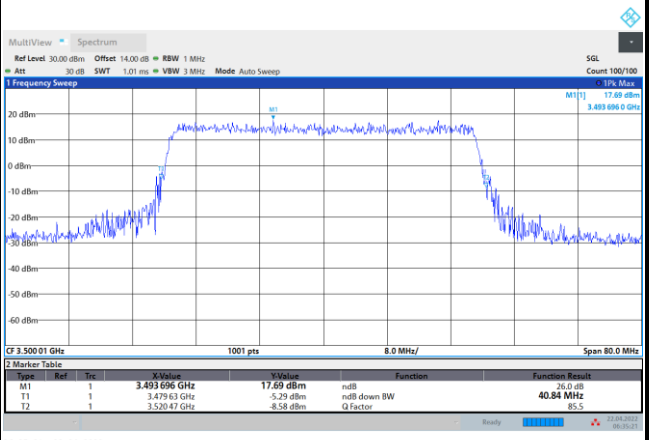

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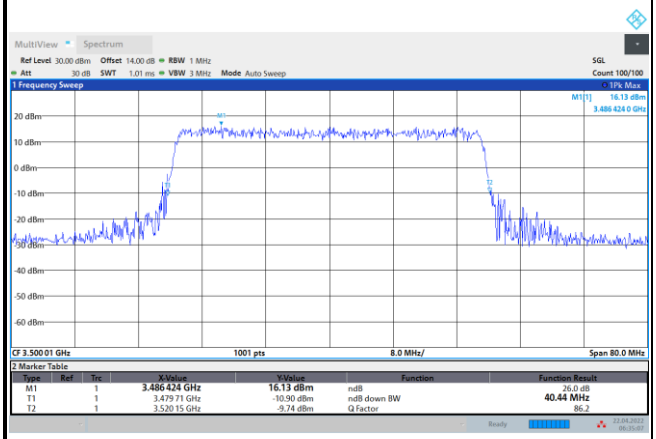

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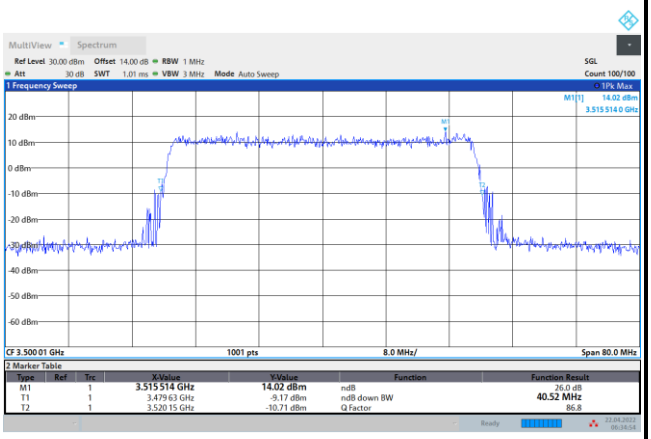
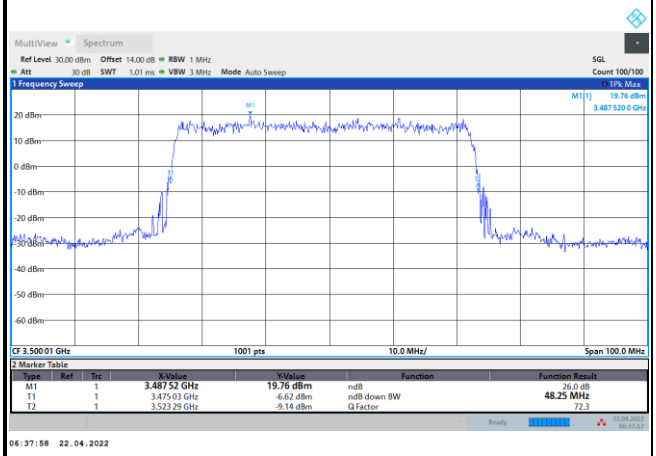


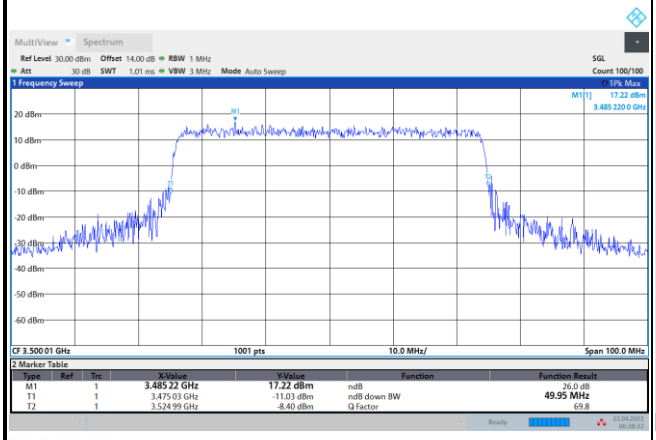
FR1 n77 / 50MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



FR1 n77 / 50MHz / CP OFDM / Middle Channel / Full RB

QPSK



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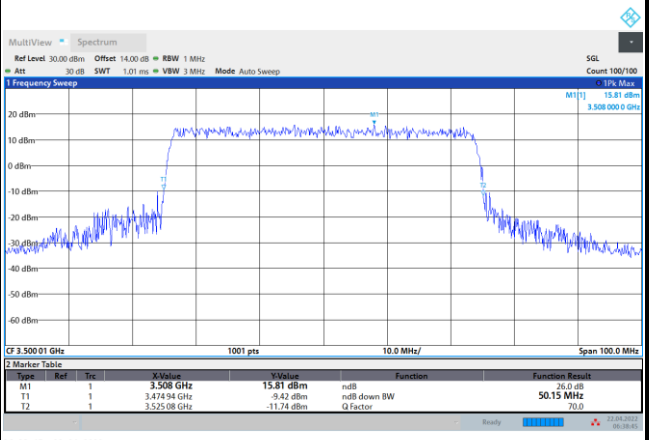

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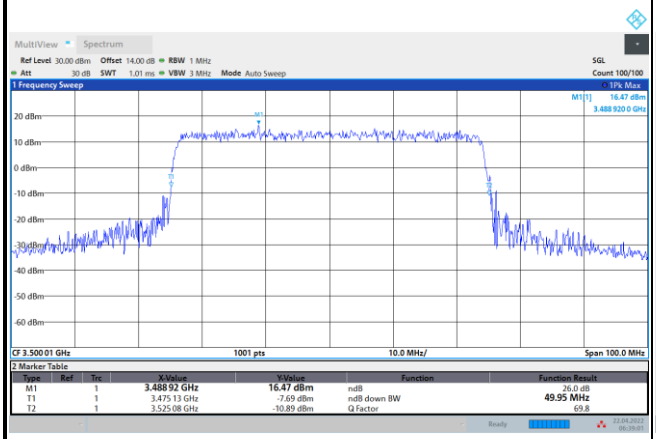

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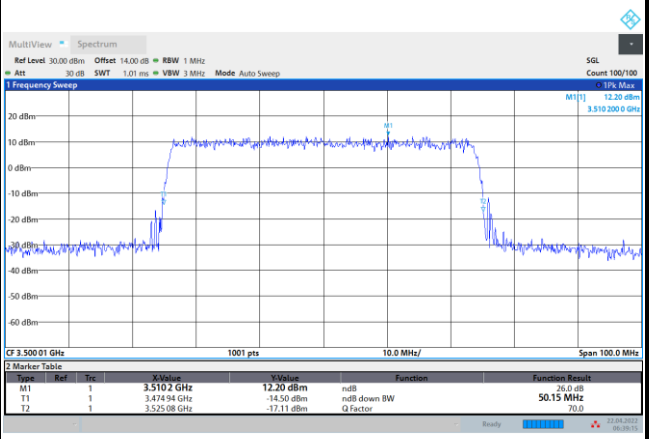
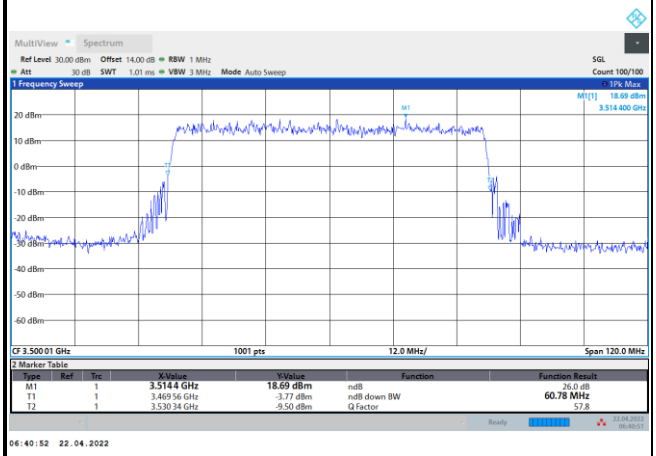


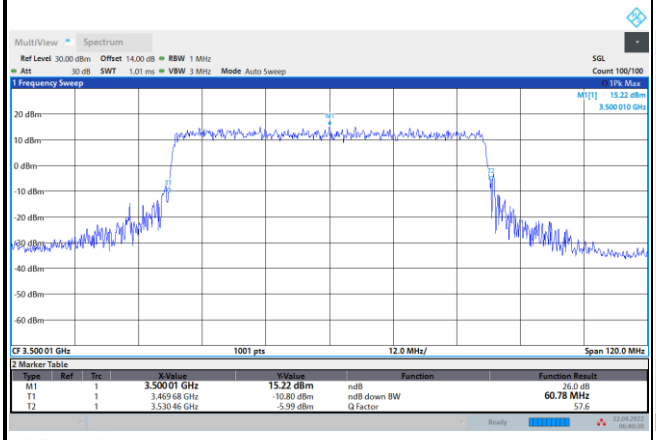
FR1 n77 / 60MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



FR1 n77 / 60MHz / CP OFDM / Middle Channel / Full RB

QPSK



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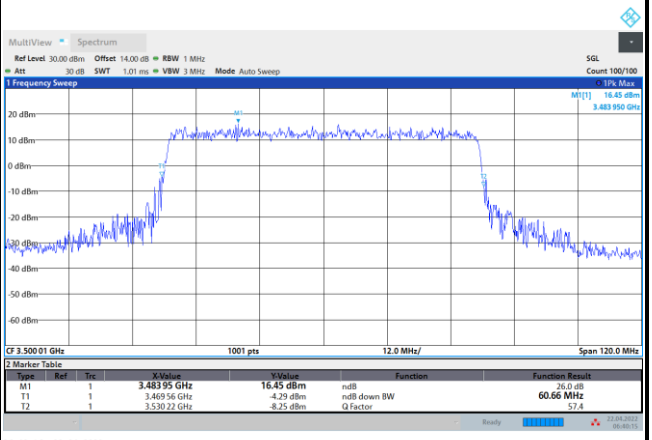

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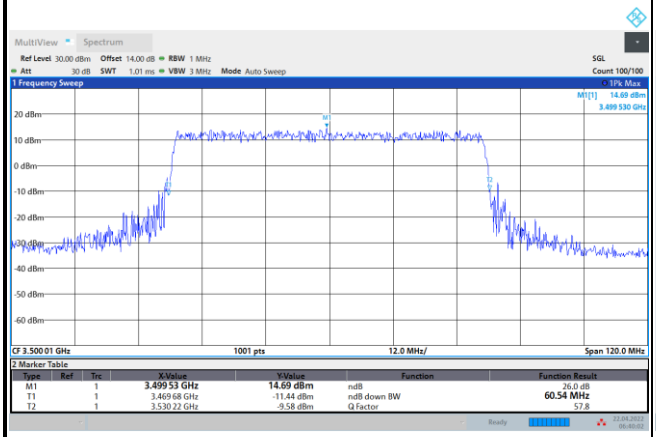

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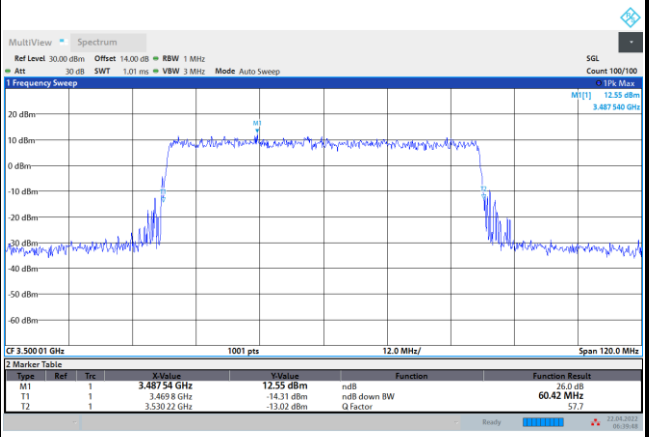
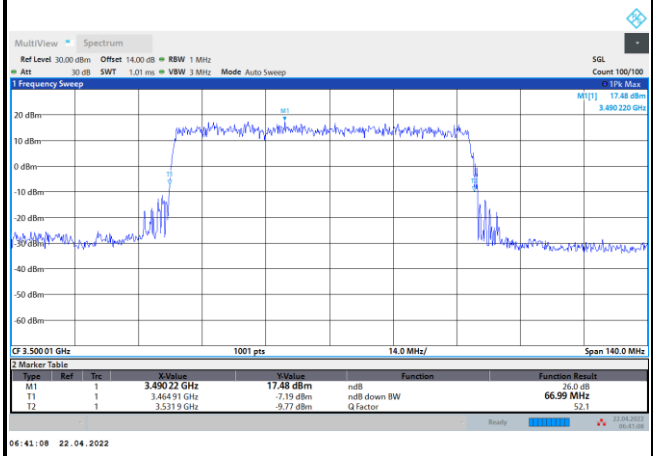


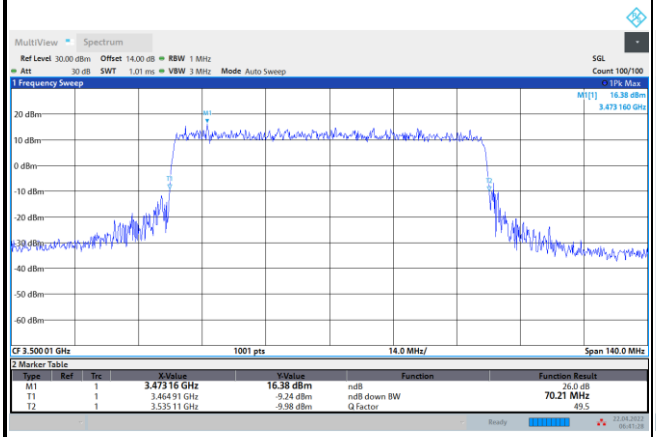
FR1 n77 / 70MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



FR1 n77 / 70MHz / CP OFDM / Middle Channel / Full RB

QPSK



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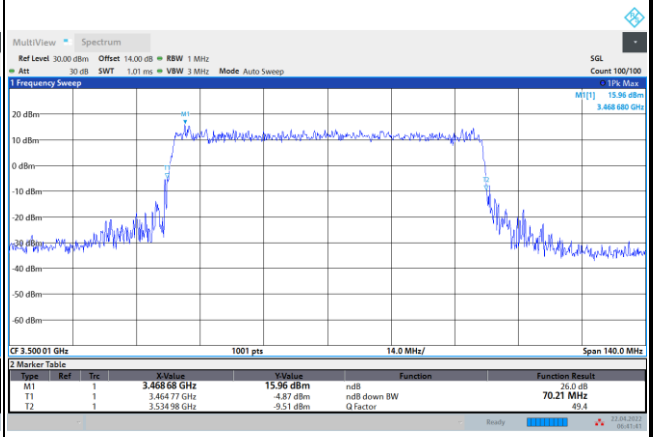

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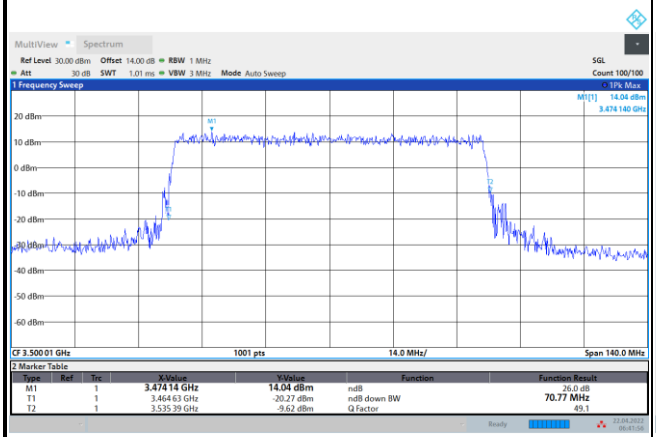

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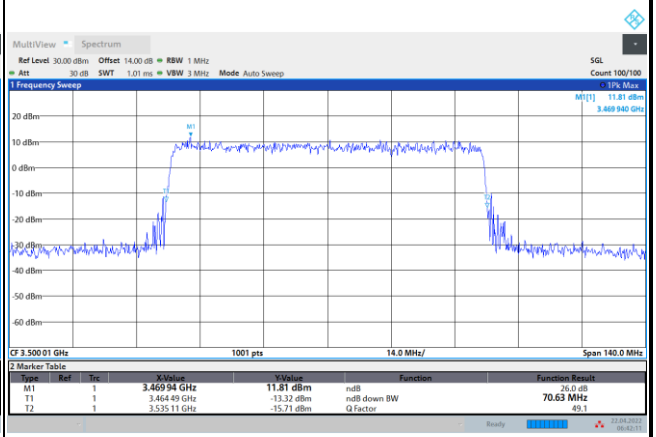
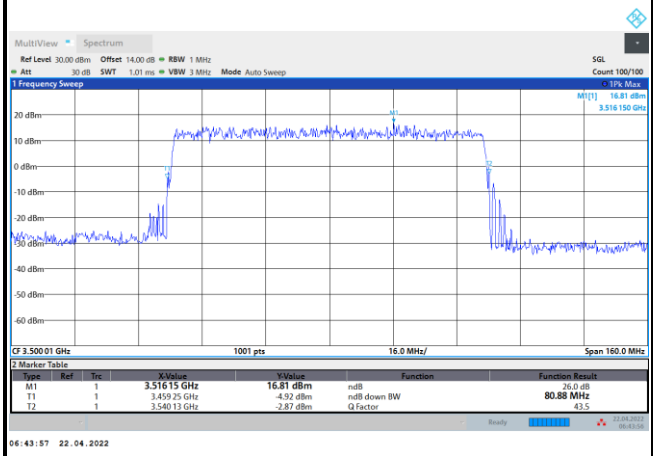


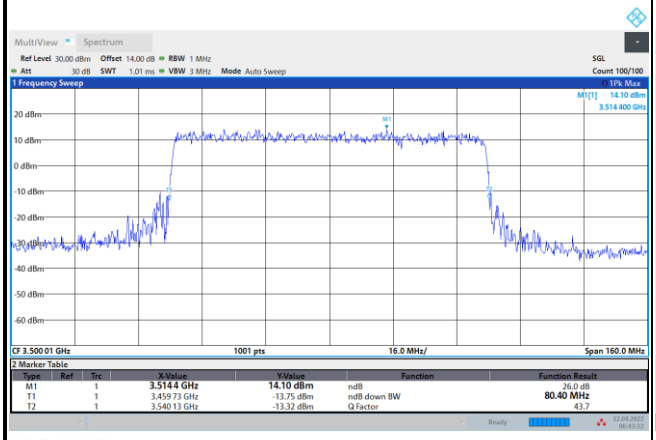
FR1 n77 / 80MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



FR1 n77 / 80MHz / CP OFDM / Middle Channel / Full RB

QPSK



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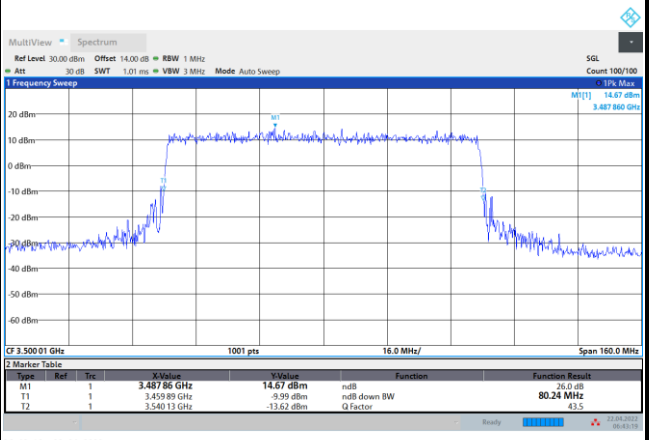

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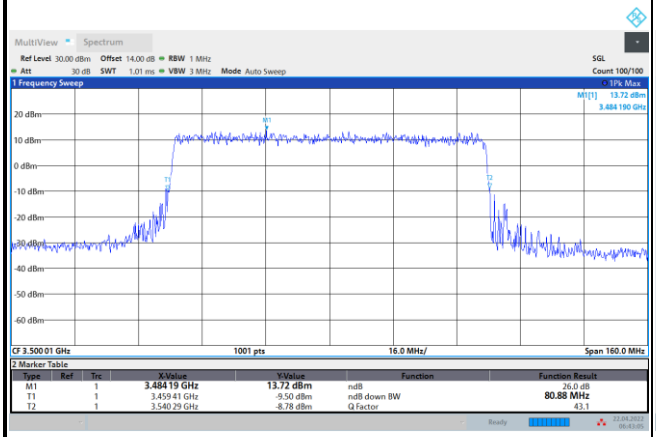

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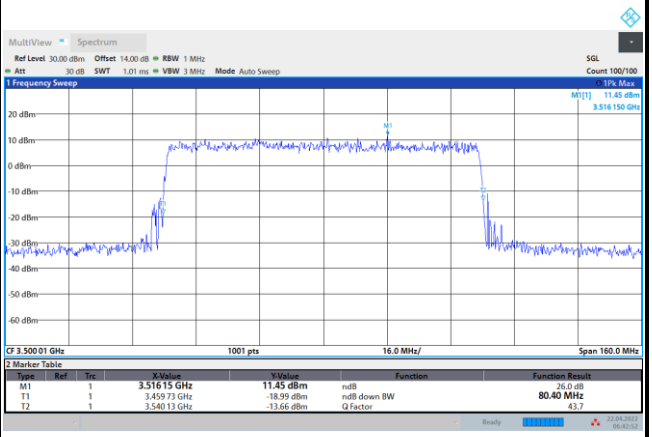
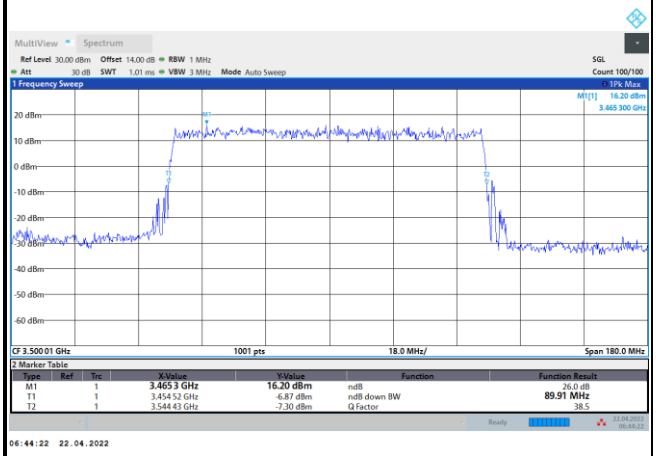


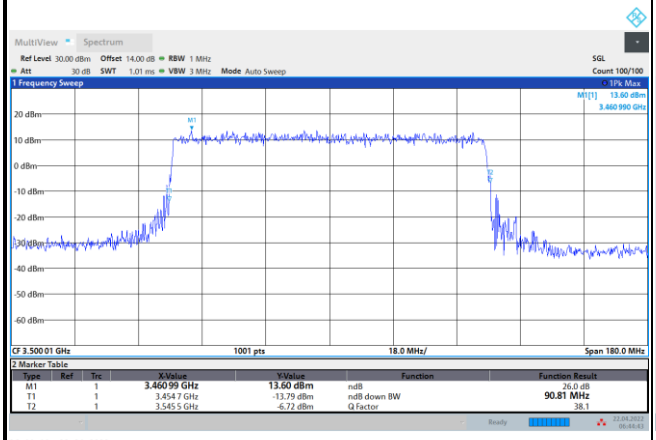
FR1 n77 / 90MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



FR1 n77 / 90MHz / CP OFDM / Middle Channel / Full RB

QPSK



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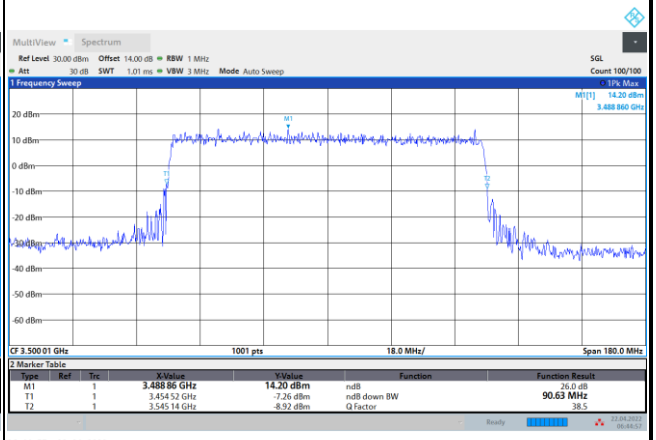

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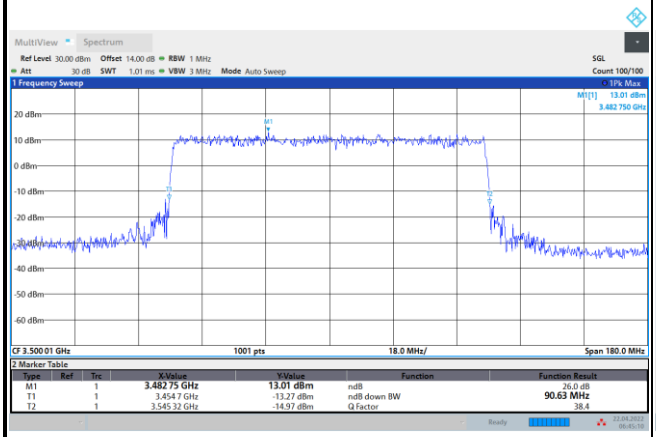
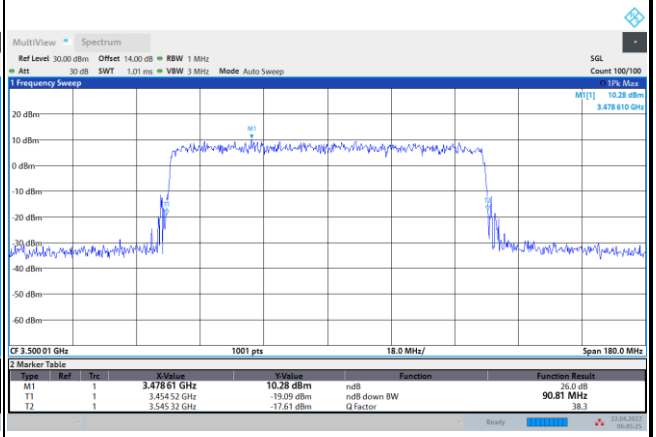
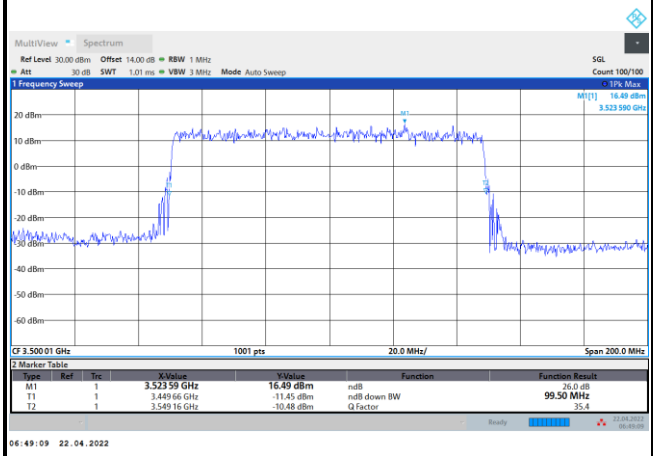


256QAM



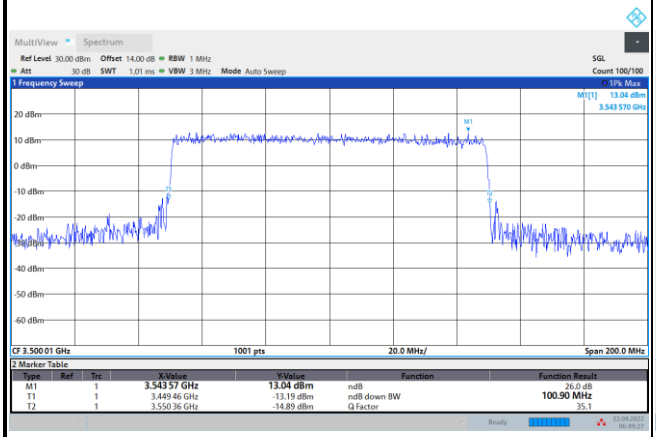
FR1 n77 / 100MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



FR1 n77 / 100MHz / CP OFDM / Middle Channel / Full RB

QPSK



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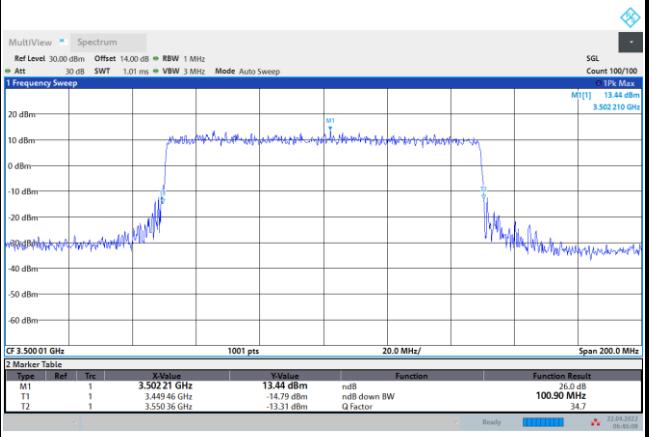
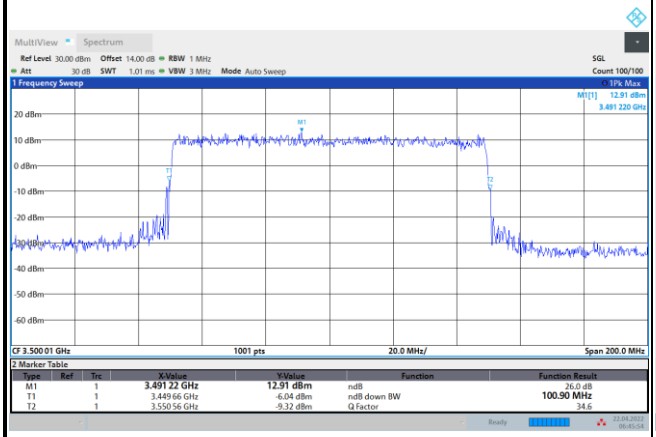


64QAM



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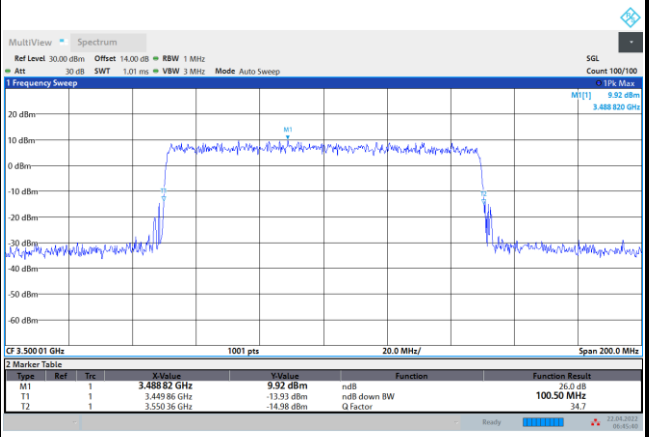


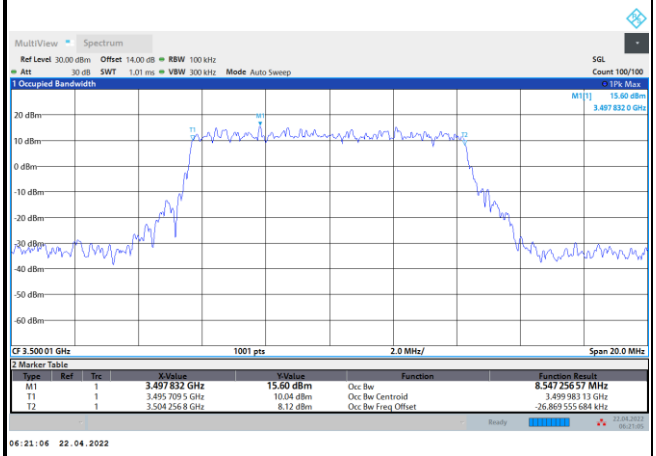
Occupied Bandwidth

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	8.54	12.90	17.93	22.86	26.78	35.99	45.92	57.94
BW	70MHz	80MHz	90MHz	100MHz				
Mod.	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK				
Middle CH	64.42	76.99	86.82	96.34				

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	8.57	13.66	13.59	18.31	18.27	23.21	23.29
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	8.60	8.56	13.75	13.69	18.33	18.26	23.26	23.19
BW	30MHz		40MHz		50MHz		60MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	27.81	27.87	38.08	38.10	47.54	47.47	58.03	57.91
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	27.79	27.79	38.10	38.23	47.66	47.52	58.08	57.81
BW	70MHz		80MHz		90MHz		100MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	67.46	67.37	77.20	77.34	87.29	87.36	97.19	97.28
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	67.57	67.38	77.39	77.39	87.31	87.32	97.29	97.22

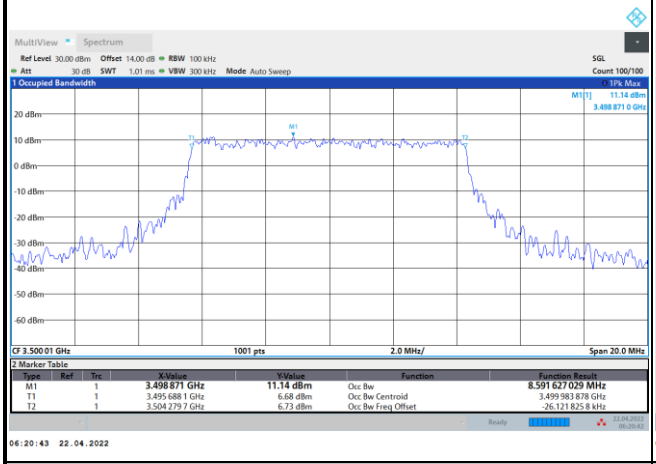
FR1 n77 / 10MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

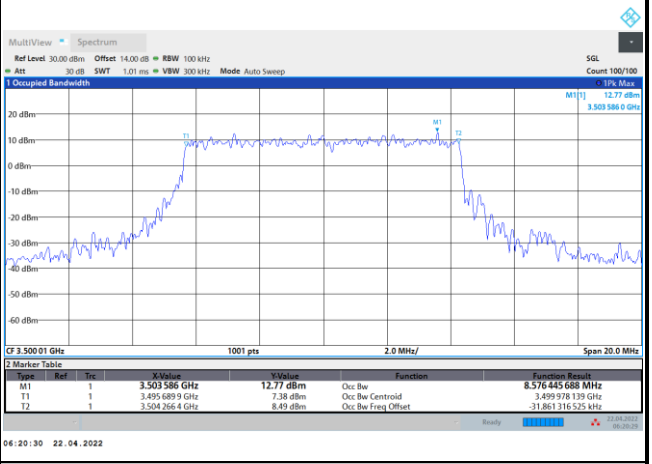


FR1 n77 / 10MHz / CP OFDM / Middle Channel / Full RB

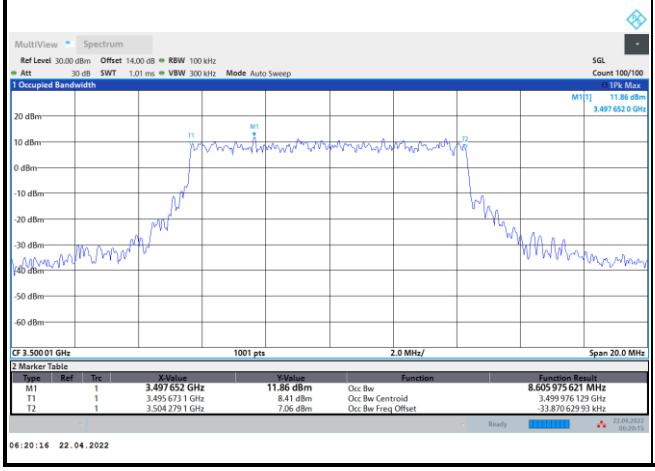
QPSK



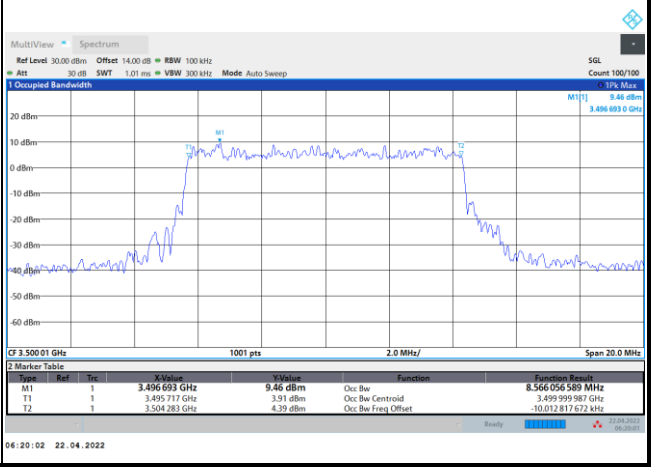
16QAM



64QAM

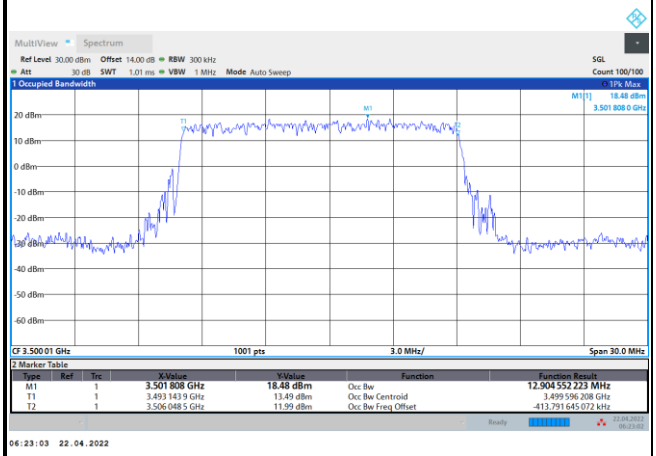


256QAM



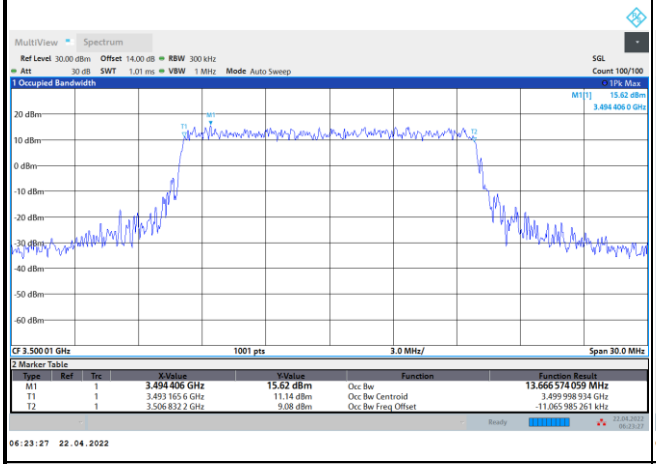
FR1 n77 / 15MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



FR1 n77 / 15MHz / CP OFDM / Middle Channel / Full RB

QPSK



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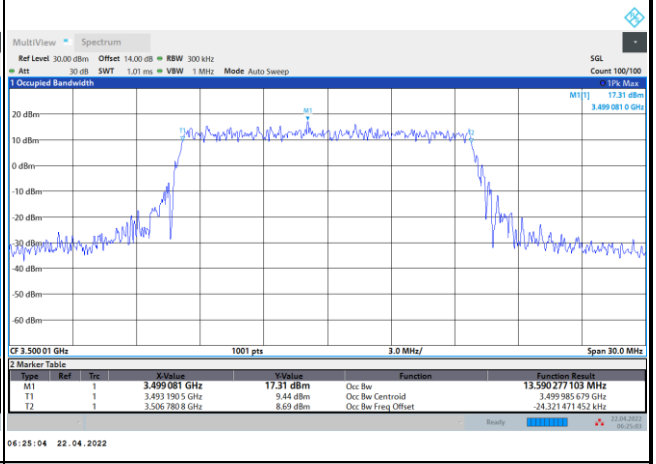

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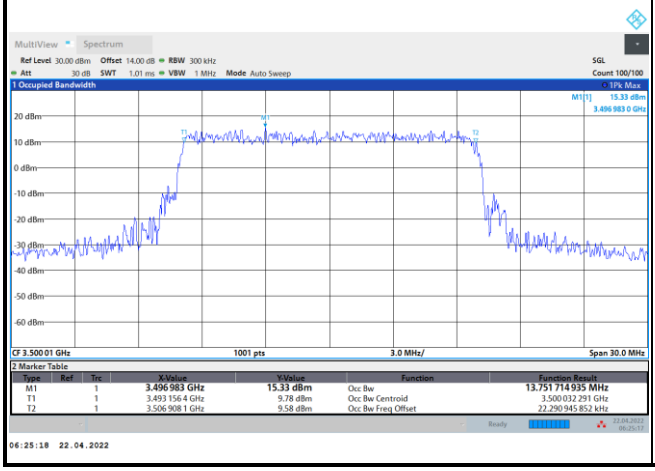

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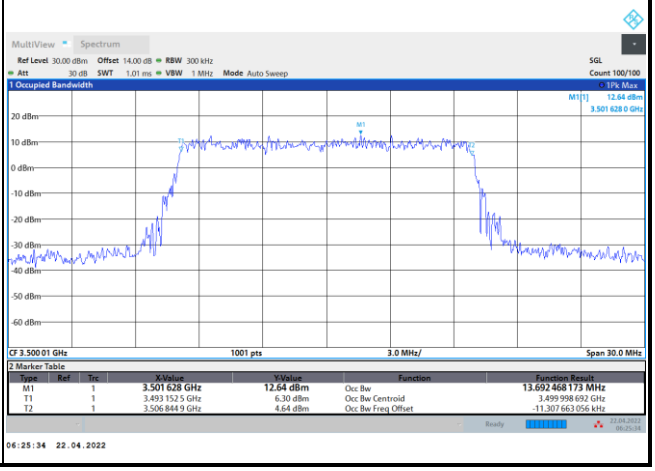
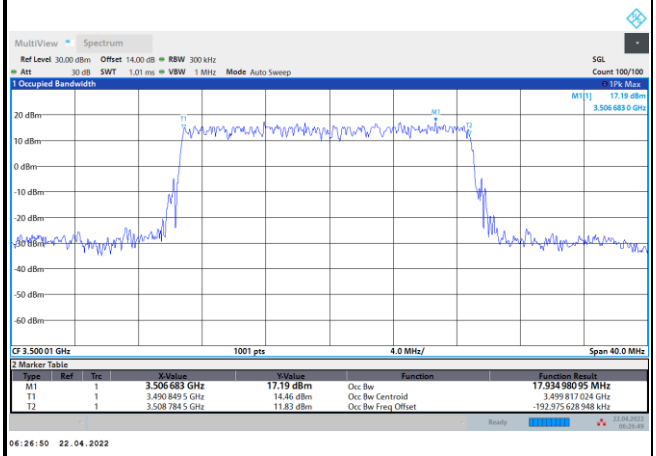


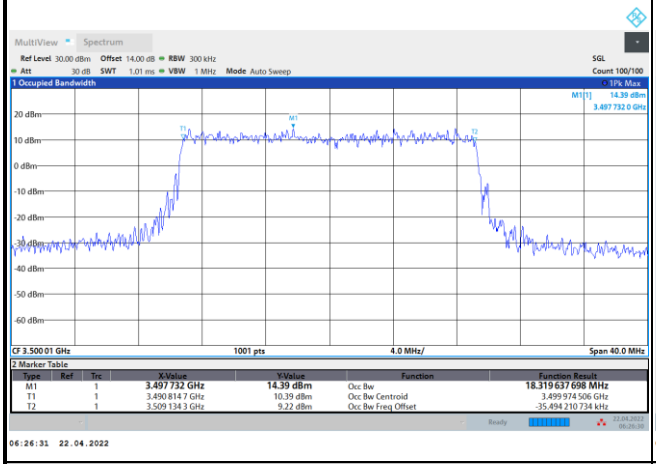
FR1 n77 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

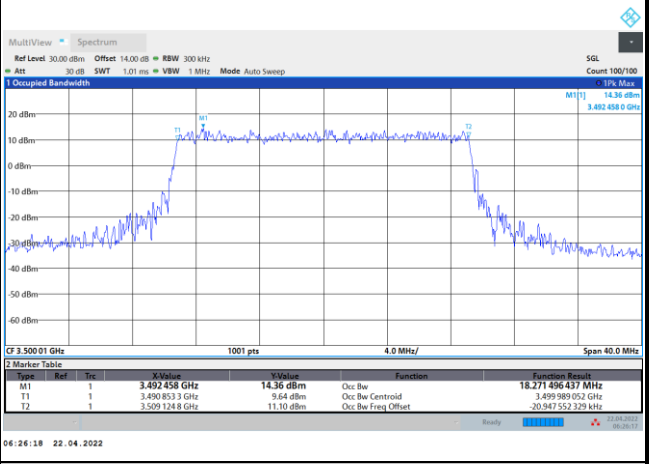


FR1 n77 / 20MHz / CP OFDM / Middle Channel / Full RB

QPSK



16QAM



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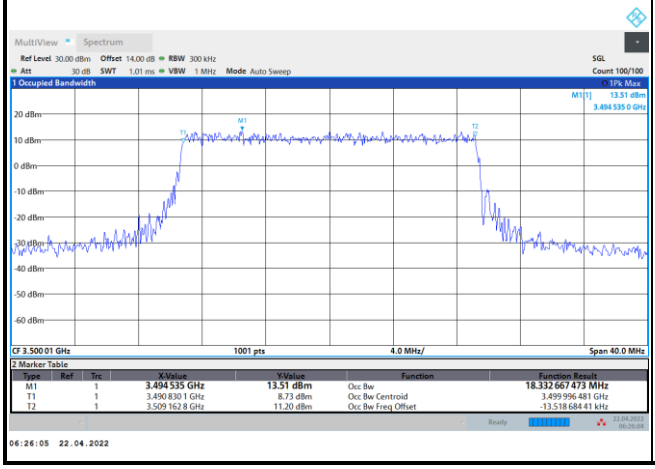
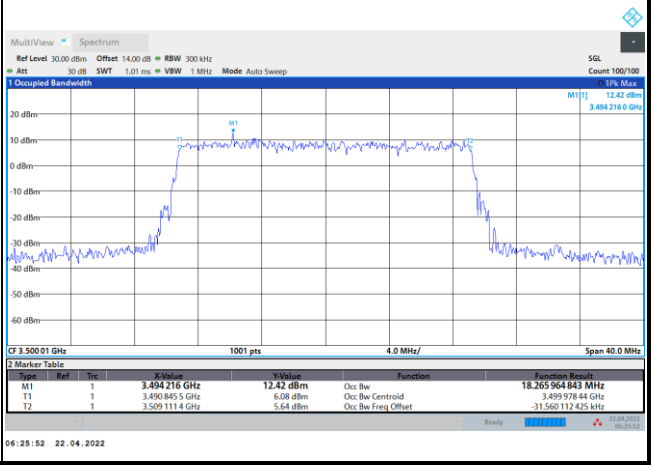
256QAM