



RF TEST REPORT

Report No.: SET2022-06946

Product Name: METAVERTU 5G digital mobile phone

Model No.: VTL-202201

FCC ID: 2A6IQ-VTL202201

Applicant: VERTU INTERNATIONAL CORPORATION LIMITED

Address: 25 St Thomas Street, Winchester, Hampshire, SO23 9HJ, United Kingdom

Dates of Testing: 05/09/2022 - 06/15/2022

Issued by: CCIC Southern Testing Co., Ltd.

Lab Location: Electronic Testing Building, No. 43 Shahe Road, Xili Street, Nanshan District, Shenzhen, Guangdong, China.

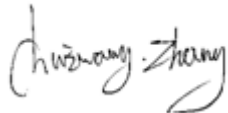
Tel: 86 755 26627338 **Fax:** 86 755 26627238

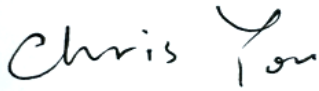
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Test Report

Product: METAVERTU 5G digital mobile phone
Brand Name.....: VERTU
Trade Name: VERTU
Applicant.....: VERTU INTERNATIONAL CORPORATION LIMITED
Applicant Address: 25 St Thomas Street, Winchester, Hampshire, SO23 9HJ, United Kingdom
Manufacturer: Chengdu Vertu Business and Service Management Co., Ltd.
Manufacturer Address: 1601,16th Floor, No. 1577 Middle Section of Tianfu Avenue, Chengdu High-tech Zone, China (Sichuan) Pilot Free Trade Zone
Test Standards: 47 CFR Part 2/22/27
Test Result.....: Pass

Tested by:  2022.08.01
Chuiwang Zhang, Test Engineer

Reviewed by:  2022.08.01
Chris You, Senior Engineer

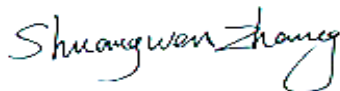
Approved by:  2022.08.01
Shuangwen Zhang, Manager

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Change History		
Issue	Date	Reason for change
1.0	2022.08.01	First edition

1. GENERAL INFORMATION

1.1. EUT Description

Product Name	METAVERTU 5G digital mobile phone	
Model No.	VTL-202201	
Hardware Version	P10	
Software Version	12.0.0_6.01.01.01	
EUT supports Radios application	SA: NR Band n5/n41/n77/n78 NSA(EN-DC): DC_5A_n78A	
SCS support:	NR Band n5: 15kHz NR Band n41/n77/n78/DC_5A_n78A: 30kHz	
Frequency Range(Tx)	NR Band n5: 824MHz~849MHz NR Band n41: 2496MHz~2690MHz NR Band n77: 3450MHz~3550MHz NR Band n78: 3450MHz~3550MHz	
Channel Bandwidth	NR Band n5:	5MHz/10MHz/15MHz/20MHz
	NR Band n41:	20MHz/30MHz/40MHz/50MHz/60MHz/80MHz/90MHz/100MHz
	NR Band n77:	20MHz/30MHz/40MHz/50MHz/60MHz/80MHz/90MHz/100MHz
	NR Band n78:	20MHz/30MHz/40MHz/50MHz/60MHz/80MHz/90MHz/100MHz
Modulation Type	DFT-s--OFDM	DFT-s-Pi/2-BPSK, DFT-s-QPSK, DFT-s-16QAM, DFT-s-64QAM, DFT-s-256QAM
	CP-OFDM	CP-QPSK, CP-16-QAM, CP-64QAM, CP-256-QAM
Maximum ERP/EIRP	NR Band n5: 16.57dBm NR Band n41: 25.84dBm NR Band n77: 23.59dBm NR Band n78: 23.59dBm	
Antenna Type	Internal Antenna	
Antenna gain	Antenna 1	NR Band n5: -6.0 dBi
	Antenna 5	NR Band n41: -0.1 dBi, NR Band n77/n78: -4.1 dBi
	Antenna 2	NR Band n41: -0.7 dBi
	Antenna 11	NR Band n77/n78: -2.0 dBi
Power supply	Rechargeable Li-ion Polymer Battery DC3.87V/4500mAh	

1.2. Maximum ERP/EIRP, Frequency Tolerance and Emission Designator

Band	Type of Modulation	BW (MHz)	Emission Designator	Frequency Tolerance (ppm)	Maximum ERP(W)
NR Band n5	DFT-s-BPSK	5	4M50G7D	—	0.045
NR Band n5	DFT-s-QPSK	5	4M50G7D	—	0.045
NR Band n5	DFT-s-16QAM	5	4M51W7D	—	0.031
NR Band n5	DFT-s-BPSK	10	8M92G7D	—	0.044
NR Band n5	DFT-s-QPSK	10	8M93G7D	—	0.045
NR Band n5	DFT-s-16QAM	10	8M95W7D	—	0.030
NR Band n5	DFT-s-BPSK	15	13M4G7D	—	0.044
NR Band n5	DFT-s-QPSK	15	13M4G7D	—	0.045
NR Band n5	DFT-s-16QAM	15	13M5W7D	—	0.034
NR Band n5	DFT-s-BPSK	20	17M8G7D	-0.007866	0.042
NR Band n5	DFT-s-QPSK	20	17M8G7D	—	0.045
NR Band n5	DFT-s-16QAM	20	17M9W7D	—	0.035

Band	Type of Modulation	BW (MHz)	Emission Designator	Frequency Tolerance (ppm)	Maximum EIRP(W)
NR Band n41	DFT-s-BPSK	20	17M9G7D	—	0.324
NR Band n41	DFT-s-QPSK	20	17M8G7D	—	0.342
NR Band n41	DFT-s-16QAM	20	17M9W7D	—	0.246
NR Band n41	DFT-s-BPSK	30	26M8G7D	—	0.329
NR Band n41	DFT-s-QPSK	30	26M8G7D	—	0.343
NR Band n41	DFT-s-16QAM	30	26M8W7D	—	0.235
NR Band n41	DFT-s-BPSK	40	35M8G7D	—	0.306
NR Band n41	DFT-s-QPSK	40	35M8G7D	—	0.341
NR Band n41	DFT-s-16QAM	40	35M8W7D	—	0.239
NR Band n41	DFT-s-BPSK	50	45M7G7D	—	0.322
NR Band n41	DFT-s-QPSK	50	45M7G7D	—	0.340
NR Band n41	DFT-s-16QAM	50	45M9W7D	—	0.245
NR Band n41	DFT-s-BPSK	60	57M9G7D	—	0.312
NR Band n41	DFT-s-QPSK	60	57M8G7D	—	0.349
NR Band n41	DFT-s-16QAM	60	57M9W7D	—	0.259
NR Band n41	DFT-s-BPSK	80	76M9G7D	—	0.316
NR Band n41	DFT-s-QPSK	80	76M8G7D	—	0.344
NR Band n41	DFT-s-16QAM	80	76M9W7D	—	0.258
NR Band n41	DFT-s-BPSK	90	86M6G7D	—	0.325
NR Band n41	DFT-s-QPSK	90	86M6G7D	—	0.345
NR Band n41	DFT-s-16QAM	90	86M6W7D	—	0.249
NR Band n41	DFT-s-BPSK	100	96M2G7D	-0.002657	0.316
NR Band n41	DFT-s-QPSK	100	96M3G7D	—	0.345
NR Band n41	DFT-s-16QAM	100	96M4W7D	—	0.249

Band	Type of Modulation	BW (MHz)	Emission Designator	Frequency Tolerance (ppm)	Maximum EIRP(W)
NR Band n77	DFT-s-BPSK	20	17M8G7D	—	0.213
NR Band n77	DFT-s-QPSK	20	17M8G7D	—	0.228
NR Band n77	DFT-s-16QAM	20	17M9W7D	—	0.170
NR Band n77	DFT-s-BPSK	30	26M8G7D	—	0.213
NR Band n77	DFT-s-QPSK	30	26M8G7D	—	0.224
NR Band n77	DFT-s-16QAM	30	26M8W7D	—	0.165
NR Band n77	DFT-s-BPSK	40	35M8G7D	—	0.210
NR Band n77	DFT-s-QPSK	40	35M8G7D	—	0.226
NR Band n77	DFT-s-16QAM	40	35M8W7D	—	0.166
NR Band n77	DFT-s-BPSK	50	45M8G7D	—	0.218
NR Band n77	DFT-s-QPSK	50	45M7G7D	—	0.226
NR Band n77	DFT-s-16QAM	50	45M8W7D	—	0.168
NR Band n77	DFT-s-BPSK	60	57M9G7D	—	0.214
NR Band n77	DFT-s-QPSK	60	57M8G7D	—	0.227
NR Band n77	DFT-s-16QAM	60	57M8W7D	—	0.169
NR Band n77	DFT-s-BPSK	80	77M1G7D	—	0.216
NR Band n77	DFT-s-QPSK	80	77M1G7D	—	0.221
NR Band n77	DFT-s-16QAM	80	77M3W7D	—	0.170
NR Band n77	DFT-s-BPSK	90	86M9G7D	—	0.214
NR Band n77	DFT-s-QPSK	90	86M7G7D	—	0.224
NR Band n77	DFT-s-16QAM	90	86M7W7D	—	0.171
NR Band n77	DFT-s-BPSK	100	96M9G7D	-0.002140	0.215
NR Band n77	DFT-s-QPSK	100	96M3G7D	—	0.221
NR Band n77	DFT-s-16QAM	100	96M3W7D	—	0.166

Band	Type of Modulation	BW (MHz)	Emission Designator	Frequency Tolerance (ppm)	Maximum EIRP(W)
NR Band n78	DFT-s-BPSK	20	17M8G7D	—	0.220
NR Band n78	DFT-s-QPSK	20	17M8G7D	—	0.228
NR Band n78	DFT-s-16QAM	20	17M9W7D	—	0.176
NR Band n78	DFT-s-BPSK	30	26M8G7D	—	0.219
NR Band n78	DFT-s-QPSK	30	26M8G7D	—	0.228
NR Band n78	DFT-s-16QAM	30	26M8W7D	—	0.179
NR Band n78	DFT-s-BPSK	40	35M8G7D	—	0.220
NR Band n78	DFT-s-QPSK	40	35M7G7D	—	0.227
NR Band n78	DFT-s-16QAM	40	35M7W7D	—	0.186
NR Band n78	DFT-s-BPSK	50	45M7G7D	—	0.218
NR Band n78	DFT-s-QPSK	50	45M8G7D	—	0.224
NR Band n78	DFT-s-16QAM	50	45M7W7D	—	0.186
NR Band n78	DFT-s-BPSK	60	57M8G7D	—	0.221
NR Band n78	DFT-s-QPSK	60	57M9G7D	—	0.227
NR Band n78	DFT-s-16QAM	60	57M9W7D	—	0.178
NR Band n78	DFT-s-BPSK	80	77M2G7D	—	0.216
NR Band n78	DFT-s-QPSK	80	77M1G7D	—	0.229
NR Band n78	DFT-s-16QAM	80	77M1W7D	—	0.170
NR Band n78	DFT-s-BPSK	90	86M9G7D	—	0.217
NR Band n78	DFT-s-QPSK	90	86M6G7D	—	0.227
NR Band n78	DFT-s-16QAM	90	86M8W7D	—	0.170
NR Band n78	DFT-s-BPSK	100	96M4G7D	-0.002154	0.213
NR Band n78	DFT-s-QPSK	100	96M1G7D	—	0.223
NR Band n78	DFT-s-16QAM	100	96M3W7D	—	0.179

1.3. Test Standards and Results

The purpose of the report is to conduct testing according to the following FCC certification standards:

No.	Identity	Document Title
1	47 CFR Part 2	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
2	47 CFR Part 22	Public Mobile Services
3	47 CFR Part 27	Miscellaneous Wireless Communications Services
4	KDB 971168 D01 Power Meas License Digital Systems v03r01	Measurement Guidance For Certification of Licensed Digital Transmitters
5	KDB 412172 D01 Determining ERP and EIRP v01r01	Guidelines for Determining the Effective Radiated Power (ERP) and Equivalent Isotropic Radiated Power (EIRP) of an RF Transmitting Systems
6	ANSI/TIA-603-E-2016	Land Mobile FM or PM Communications Equipment Measurement and Performance Standards
7	ANSI C63.26-2015	American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services

Test detailed items/section required by FCC rules and results are as below:

No.	FCC Rule	Description	Limit	Result
1	2.1046	Conducted Output Power	Reporting Only	PASS
2	24.232 (d) 27.50 (k)(4)	Peak to Average Ratio	< 13dB	PASS
3	22.913 (a)(5)	Effective Radiated Power (Band n5)	ERP < 7W	PASS
	27.50 (h)(2)	Equivalent Isotropic Radiated Power (Band n41)	EIRP < 2W	PASS
	27.50 (k)(3)	Equivalent Isotropic Radiated Power (Band n77/n78)	EIRP < 1W	PASS
4	2.1049	Occupied Bandwidth	Reporting Only	PASS
5	2.1051 22.917 (a)	Conducted Spurious Emission and Conducted Band Edge Measurement (n5)	< 43+10log10(P[watt])	PASS
	2.1051 27.53 (m)(4)	Conducted Spurious Emission and Conducted Band Edge Measurement (Band n41)	Refer to 27.53(m)(4)	PASS
	2.1051 27.53 (n)(2)	Conducted Spurious Emission and Conducted Band Edge Measurement (Band n77/n78)	< -13 dBm/MHz	PASS
6	2.1053 22.917 (a)	Radiated Spurious Emission (Band n5)	< 43+10log10(P[watt])	PASS
	2.1053 27.53 (m)(4)	Radiated Spurious Emission (Band n41)	< 55+10log10(P[watt])	PASS
	2.1053 27.53 (n)(2)	Radiated Spurious Emission (Band n77/n78/DC_5A_n78A)	< -13 dBm/MHz	PASS
7	2.1055 22.335	Frequency Stability (Band n5)	< 2.5ppm	PASS
	27.54	Frequency Stability (Band n41/n77/n78)	Within the Authorized Band	PASS

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15 Subpart B, recorded in a separate test report.

1.4. Test Configuration of Equipment Under Test

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.

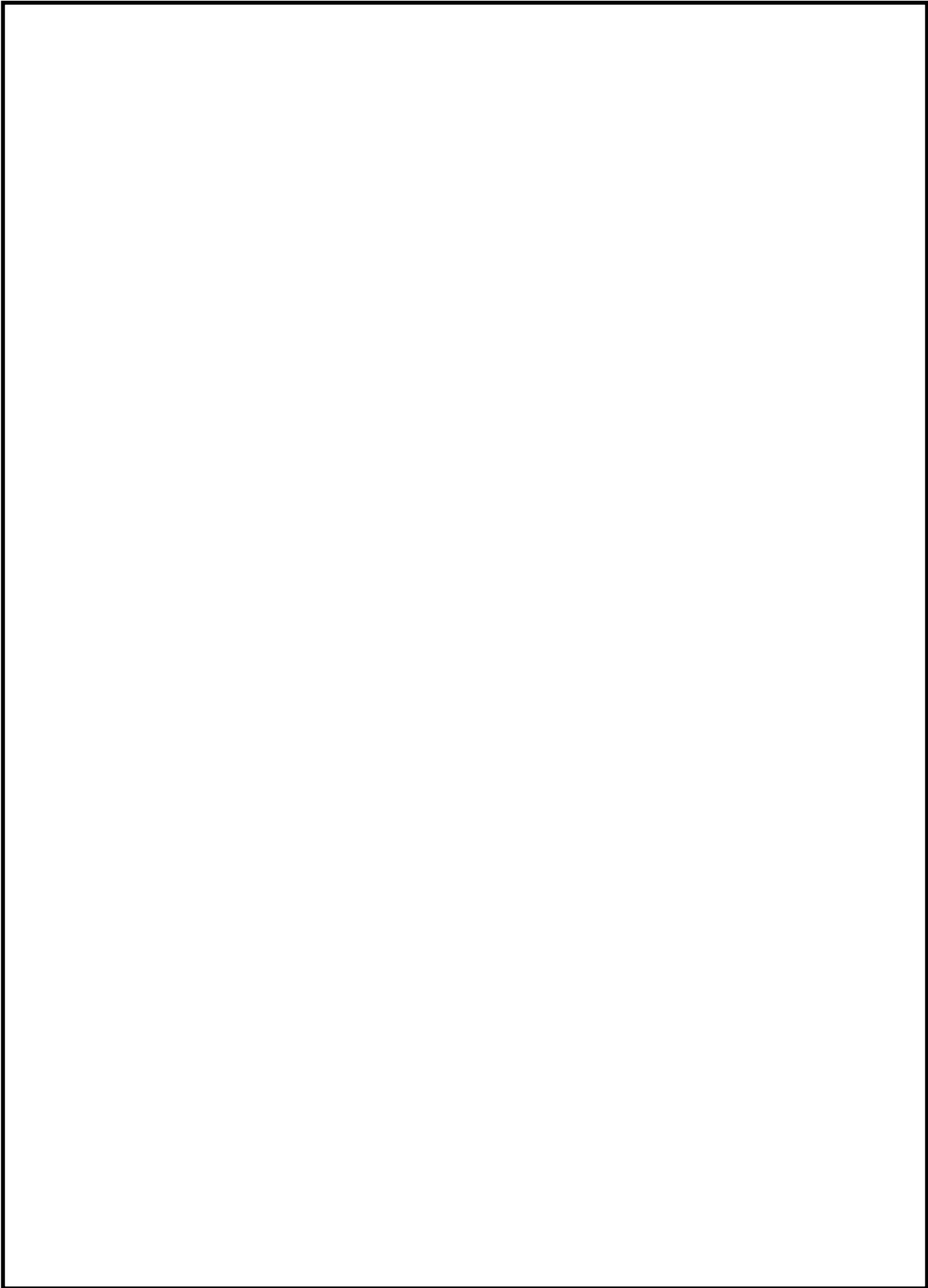
Radiated measurements are performed by rotating the EUT in three different orthogonal test planes to find the maximum emission.

Test Items	Band	Bandwidth(MHz)	Modulation	RB Configuration	Test Channel
Conducted Output Power and ERP/EIRP	n5	5, 10, 15, 20	All DFT-s--OFDM All CP-OFDM	Inner_1RB Inner_Full Outer_Full	L, M, H
	n41	20, 30, 40, 50, 60, 80, 90, 100			
	n77	20, 30, 40, 50, 60, 80, 90, 100			
	n78	20, 30, 40, 50, 60, 80, 90, 100			
Peak-to-Average Ratio	n5	20	DFT-s-PI/2-BPSK CP-QPSK	Outer_Full	L, M, H
	n41	20			
	n77	20			
	n78	20			
99% OBW and 26dB EBW	n5	5, 10, 15, 20	All DFT-s--OFDM All CP-OFDM	Outer_Full	M
	n41	20, 30, 40, 50, 60, 80, 90, 100			
	n77	20, 30, 40, 50, 60, 80, 90, 100			
	n78	20, 30, 40, 50, 60, 80, 90, 100			
Conducted Band Edge	n5	5, 10, 15, 20	DFT-s-PI/2-BPSK CP-QPSK	Edge_1RB Outer_Full	L, H
	n41	20, 30, 40, 50, 60, 80, 90, 100			
	n77	20, 30, 40, 50, 60, 80, 90, 100			
	n78	20, 30, 40, 50, 60, 80, 90, 100			
Conducted Spurious Emission	n5	20	DFT-s-PI/2-BPSK CP-QPSK	Edge_1RB	L, M, H
	n41	100			
	n77	90			
	n78	90			
Frequency Stability	n5	20	DFT-s-PI/2-BPSK CP-QPSK	Outer_Full	M
	n41	100			
	n77	100			
	n78	100			
Radiated Spurious Emission	n5	20	Worst case		M
	n41	100	Worst case		
	n77	100	Worst case		
	n78	100	Worst case		
	DC_5A _n78A	100	Worst case		

Note 1: All bandwidths, all transmission schemes(DFT-s--OFDM, CP-OFDM), all RB configurations, all channels have been evaluated, only the worst test results are reflected in the report.

Note 2: NR Band n78 supports SA and NSA modes, NSA only tests the radiated spurious emission part.

Note 3: NR Band n41/n77/n78 has two transmit antennas and reports peak-to-average ratio, occupied bandwidth, conducted band edge, conducted spurious emission and frequency stability with only the worst antenna data.



1.5. Measurement Results Explanation Example

For all conduction 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 + Power Splitter + attenuator factor..

Following shows an offset computation example with cable loss 1dB, 3dB Power Splitter, 10dB attenuator.

Example: Offset (dB) = RF cable loss(dB) + Power Splitter(dB) + attenuator factor(dB).
$$= 1 + 3 + 10 = 14 \text{ (dB)}$$

1.6. Laboratory Facilities

FCC-Registration No.: 406086

CCIC Southern Testing Co., Ltd EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Designation Number: CN1283, valid time is until April 19th, 2023.

ISED Registration: 11185A-1

CCIC Southern Testing Co., Ltd. EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 11185A-1 on Aug. 04, 2016, valid time is until Jun. 30th, 2023.

A2LA Code: 5721.01

CCIC-SET is a third party testing organization accredited by A2LA according to ISO/IEC 17025. The accreditation certificate number is 5721.01.

1.7. Test Environment Conditions

During the measurement, the environmental conditions were within the listed ranges:

Temperature (°C):	15°C - 35°C
Relative Humidity (%):	30% -60%
Atmospheric Pressure (kPa):	86KPa-106KPa

2. 47 CFR Part 2 Requirements

2.1. Conducted Output Power and ERP/EIRP

2.1.1. Requirement

According to FCC section 2.1046(a), for transmitters other than single sideband, independent sideband and controlled carrier radiotelephone, power output shall be measured at the RF output terminals when the transmitter is adjusted in accordance with the tune-up procedure to give the values of current and voltage on the circuit elements specified in FCC section 2.1033(c)(8).

The ERP of mobile transmitters must not exceed 7 Watts for Band n5.

The EIRP of mobile transmitters must not exceed 2 Watts for Band n41.

The EIRP of mobile transmitters must not exceed 1 Watts for Band n77/n78.

According to KDB 412172 D01 Determining ERP and EIRP v01r01.

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

P_T = transmitter output power in dBm;

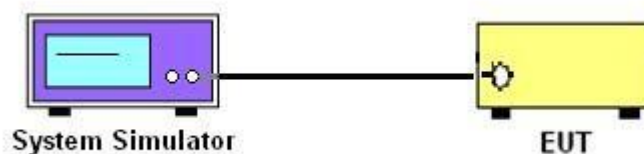
G_T = gain of the transmitting antenna in dBi;

L_C = signal attenuation in the connecting cable between the transmitter and antenna in dB.

2.1.2. Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.1.3. Test Setup



2.1.4. Test Procedures

1. The transmitter output port was connected to the system simulator.
2. Set EUT at maximum power through 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.



2.1.5. Test Results of Conducted Output Power and ERP/EIRP

Please refer to Appendix A for detail

2.2. Peak-to-average power ratio (PAPR)

2.2.1. Requirement

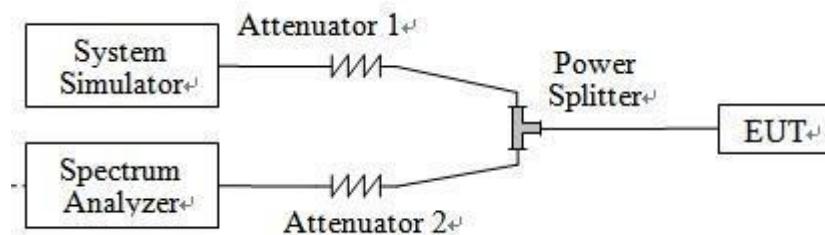
Power Complementary Cumulative Distribution Function (CCDF) curves provide a means for characterizing the power peaks of a digitally modulated signal on a statistical basis. A CCDF curve depicts the probability of the peak signal amplitude exceeding the average power level. Most contemporary measurement 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 power ratio (PAPR) of the transmission may not exceed 13 dB.

2.2.2. Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.2.3. Test Description



2.2.4. Test Procedures

1. The testing follows the of KDB 971168 D01 v03r01 Section 5.7.2 and ANSI C63.26-2015 Section 5.2.3.4.
2. The EUT was connected to spectrum analyzer and system simulator via a power divider, Path loss compensation is then performed on the spectrum analyzer and the system simulator respectively.
3. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
4. Set resolution/measurement bandwidth $\geq$ OBW or specified reference bandwidth.
5. Set the number of counts to a value that stabilizes the measured CCDF curve.
6. Set the EUT working in highest power level, measured and recorded the 0.1% as PAPR level.
7. Repeat step 3~6 at other frequency and modulations.

2.2.5. Test Results of Peak-to-average power ratio (PAPR)

Please refer to Appendix A for detail

2.3. 99% Occupied Bandwidth and 26dB Emission Bandwidth

2.3.1. Requirement

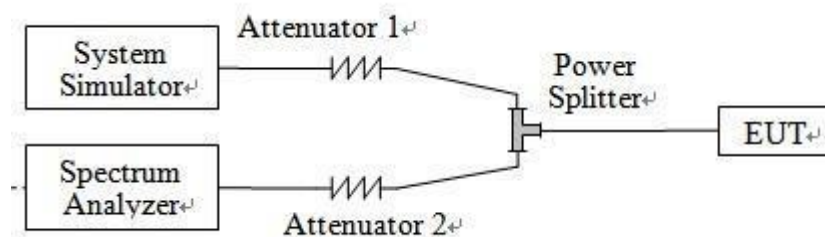
The Occupied Bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission.

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.

2.3.2. Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.3.3. Test Setup



2.3.4. Test Procedures

1. The testing follows the of KDB 971168 D01 v03r01 Section 4 and ANSI C63.26-2015 Section 5.4.
2. The EUT was connected to spectrum analyzer and system simulator via a power divider, Path loss compensation is then performed on the spectrum analyzer and the system simulator respectively.
3. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency.
4. Set span to be approximately 1.5 to 5 times the OBW.
5. The nominal RBW shall be in the range of 1% to 5% of the anticipated OBW.
6. Set $VBW \geq 3 \times RBW$.
7. Set Detection mode = peak.
8. Set Trace mode = max hold.
9. Allow trace to stabilize.
10. Repeat step 3~9 at other frequency and modulations.



2.3.5. Test Result of 99% Occupied Bandwidth and 26dB Emission Bandwidth

Please refer to Appendix A for detail

2.4. Conducted Band Edge

2.4.1. Requirement

For Band n5 [Part 22.917(a)]:

Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. In the spectrum below 1 GHz, instrumentation should employ a reference bandwidth of 100 kHz or greater. In the 1 MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy, provided that the measured power is integrated over the full required reference bandwidth (i.e., 100 kHz or 1 percent of emission bandwidth, as specified).

For Band n41 [Part 27.53 (m)(4)]:

For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log(P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log(P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log(P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log(P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log(P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

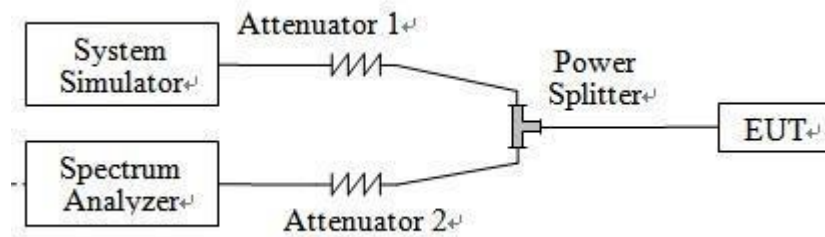
For Band n77/n78 [Part 27.53 (n)(2)]:

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.

2.4.2. Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.4.3. Test Setup



2.4.4. Test Procedures

1. The testing follows the of KDB 971168 D01 v03r01 Section 6 and ANSI C63.26-2015 Section 5.7.
2. The EUT was connected to spectrum analyzer and system simulator via a power divider, Path loss compensation is then performed on the spectrum analyzer and the system simulator respectively.
3. Span was set large enough so as to capture all out of band emissions near the Channel Edge.
4. Use $RBW \geq 1\%$ EBW in the 1 megahertz bands immediately outside and adjacent to the licensee's authorized frequency channel, and use $RBW = 1$ MHz outside 1 MHz of the authorized frequency channel.
5. Set $VBW \geq 3 \times RBW$
6. Set Detector = power averaging (rms).
7. Set the number of points in sweep $\geq 2 \times \text{span} / RBW$.
8. Set sweep trigger to "free run."
9. Set the Sweep time $> (\text{number of points in sweep}) \times (\text{transmitter period})$ (i.e., the transmit on-time + the off-time).
10. Perform a trace average of at least 100 traces.
11. Repeat step 3~10 at other frequency and modulations.

2.4.5. Test Result of Conducted Band Edge

Please refer to Appendix A for detail

2.5. Conducted Spurious Emission

2.5.1. Requirement

For Band n5/n77/n78:

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.

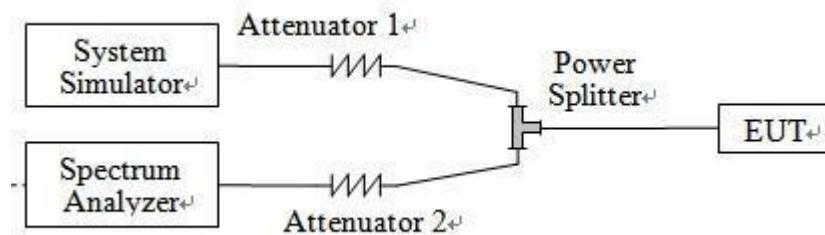
For Band n41:

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 $55 + 10 \log (P)$ dB.

2.5.2. Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.5.3. Test Setup



2.5.4. Test Procedures

1. The testing follows the of KDB 971168 D01 v03r01 Section 6 and ANSI C63.26-2015 Section 5.7.
2. The EUT was connected to spectrum analyzer and system simulator via a power divider, Path loss compensation is then performed on the spectrum analyzer and the system simulator respectively.
3. Set the spectrum analyzer start frequency to 9kHz and stop frequency to the tenth harmonic of the highest fundamental frequency.
4. Set $RBW = 1\text{MHz}$, $VBW \geq 3 \times RBW$
5. Set Detector = peak.
6. Set Trace mode = max hold.
7. Set Sweep time = auto-couple.
8. Identify and measure the highest spurious emission levels in each frequency range.
9. Compare the results with the corresponding limit in the applicable regulation.
10. Repeat step 3~9 at other frequency and modulations.



2.5.5. Test Result of Conducted Spurious Emission

Please refer to Appendix A for detail

2.6. Radiated Spurious Emission

2.6.1. Requirement

The radiated spurious emission was measured by substitution method according to ANSI/TIA-603-E-2016.

For Band n5/n77/n78/DC_5A_n78A:

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.

For Band n41:

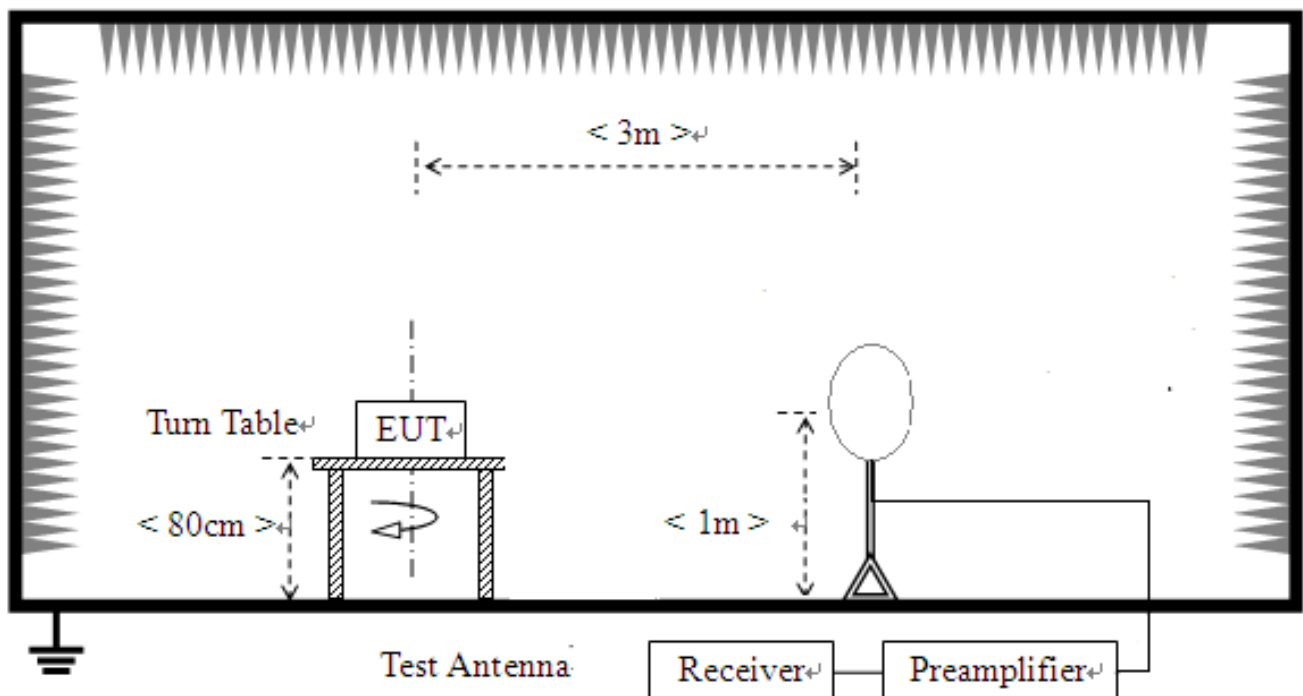
The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $55 + 10 \log (P)$ dB.

2.6.2. Measuring Instruments

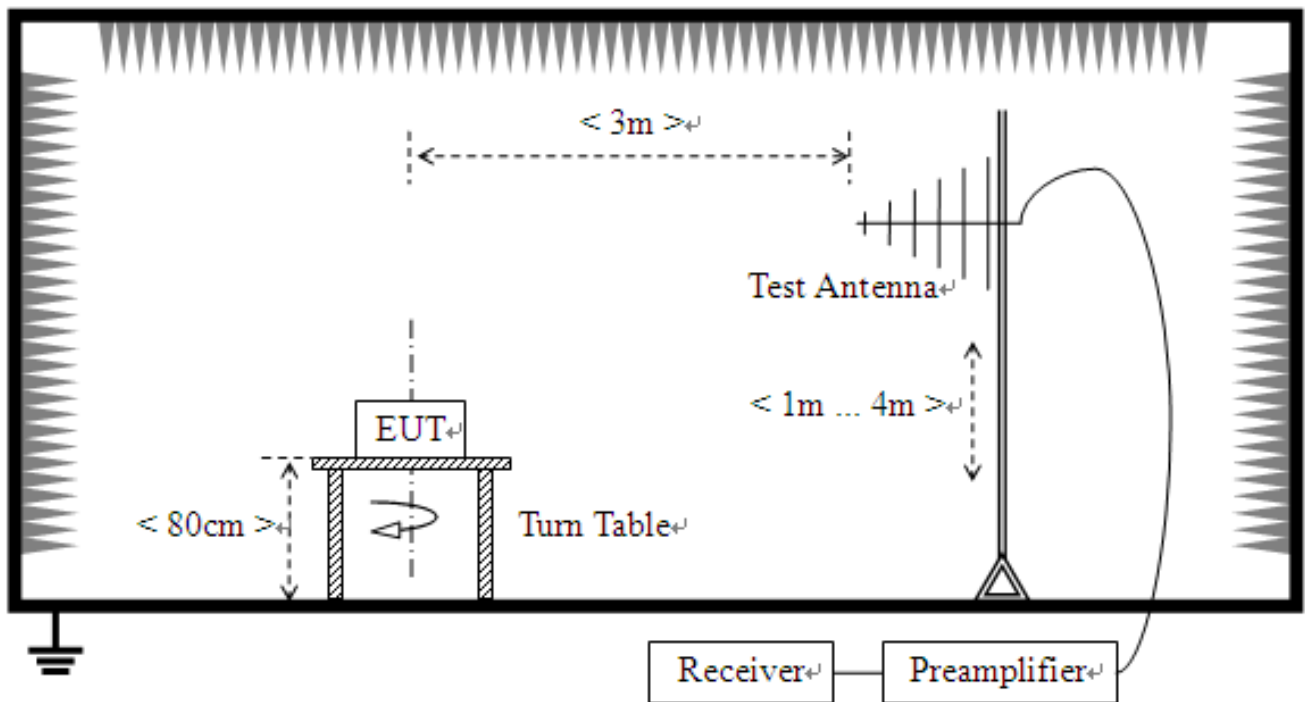
The measuring equipment is listed in the section 3 of this test report.

2.6.3. Test Setup

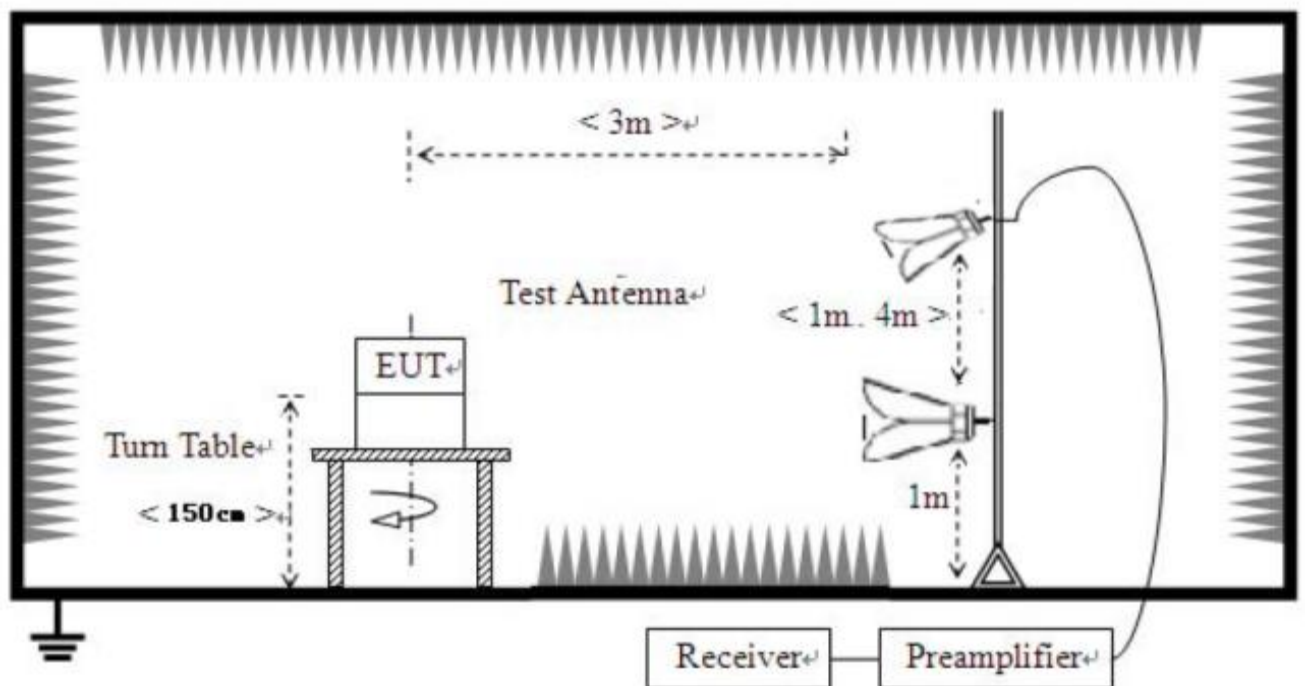
For radiated emissions from 9kHz to 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



2.6.4. Test Procedures

1. The EUT was placed on a rotatable wooden table with 0.8 meter (for below 1GHz) / 1.5 meters (for above 1GHz) 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.
11. All Spurious Emission tests were performed in X, Y, Z axis direction and low, middle, high channel. And only the worst axis test condition was recorded in this test report.
12. The spectrum is measured from 9 kHz to the 10th harmonic of the fundamental frequency of the transmitter using CISPR quasi peak detector below 1GHz. The worst case emissions are reported however emissions whose levels were not within 20dB of the respective limits were not reported.
13. The maximum RB configurations of the Radiated Spurious Emissions as RB Size full, RB Offset 0.

2.6.5. Test Result of Radiated Spurious Emission

Note: 1. The emission levels of above 18GHz are lower than the limit 20dB and not show in test report.

Note: 2. Absolute Level = Reading Level + Factor

NR Band n5_20MHz_DFT-s-BPSK_Edge_1RB_Left_Mid_CH - ANT1							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	41.6458	-81.08	-59.89	-13.00	46.89	21.19	Horizontal
2	74.1571	-84.32	-65.06	-13.00	52.06	19.26	Horizontal
3	367.243	-103.49	-75.14	-13.00	62.14	28.35	Horizontal
4	5005.50	-62.77	-49.94	-13.00	36.94	12.83	Horizontal
5	8602.80	-65.40	-49.68	-13.00	36.68	15.72	Horizontal
6	12982.4	-63.97	-45.13	-13.00	32.13	18.84	Horizontal
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	41.6458	-80.73	-60.80	-13.00	47.80	19.93	Vertical
2	74.1571	-85.04	-63.46	-13.00	50.46	21.58	Vertical
3	569.104	-104.26	-72.13	-13.00	59.13	32.13	Vertical
4	2539.26	-64.59	-62.15	-13.00	49.15	2.44	Vertical
5	4996.99	-65.08	-52.27	-13.00	39.27	12.81	Vertical
6	12506.2	-62.98	-44.07	-13.00	31.07	18.91	Vertical

NR Band n41_100MHz_DFT-s-BPSK_Edge_1RB_Left_Mid_CH - ANT5							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	42.1311	-80.33	-59.06	-25.00	34.06	21.27	Horizontal
2	97.4487	-73.72	-54.26	-25.00	29.26	19.46	Horizontal
3	488.069	-85.65	-53.46	-25.00	28.46	32.19	Horizontal
4	4886.44	-58.00	-43.26	-25.00	18.26	14.74	Horizontal
5	6234.11	-63.49	-40.28	-25.00	15.28	23.21	Horizontal
6	14326.1	-62.65	-33.22	-25.00	8.22	29.43	Horizontal
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	41.6458	-80.18	-60.06	-25.00	35.06	20.12	Vertical
2	97.4487	-73.89	-49.49	-25.00	24.49	24.40	Vertical
3	488.069	-85.78	-55.11	-25.00	30.11	30.67	Vertical
4	5120.56	-57.37	-42.81	-25.00	17.81	14.56	Vertical
5	7452.72	-59.07	-39.39	-25.00	14.39	19.68	Vertical
6	14266.1	-61.26	-32.16	-25.00	7.16	29.10	Vertical

NR Band n41_100MHz_DFT-s-BPSK_Edge_1RB_Left_Mid_CH - ANT2							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	97.4487	-74.39	-54.93	-25.00	29.93	19.46	Horizontal
2	488.069	-86.12	-53.93	-25.00	28.93	32.19	Horizontal
3	817.548	-89.43	-51.65	-25.00	26.65	37.78	Horizontal
4	5129.56	-54.17	-39.64	-25.00	14.64	14.53	Horizontal
5	14296.1	-61.97	-32.28	-25.00	7.28	29.69	Horizontal
6	16625.3	-62.80	-31.62	-25.00	6.62	31.18	Horizontal
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	41.6458	-80.33	-60.21	-25.00	35.21	20.12	Vertical
2	97.4487	-74.22	-49.82	-25.00	24.82	24.40	Vertical
3	550.665	-88.08	-56.09	-25.00	31.09	31.99	Vertical
4	945.167	-89.88	-51.02	-25.00	26.02	38.86	Vertical
5	7542.77	-59.46	-39.81	-25.00	14.81	19.65	Vertical
6	16049.0	-66.40	-36.60	-25.00	11.60	29.80	Vertical

NR Band n77_100MHz_DFT-s-BPSK_Edge_1RB_Left_Mid_CH - ANT5							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	41.6458	-82.99	-61.80	-13.00	48.80	21.19	Horizontal
2	97.4487	-80.49	-61.28	-13.00	48.28	19.21	Horizontal
3	293.001	-85.02	-59.77	-13.00	46.77	25.25	Horizontal
4	586.088	-91.18	-60.22	-13.00	47.22	30.96	Horizontal
5	7216.60	-68.46	-52.11	-13.00	39.11	16.35	Horizontal
6	13399.1	-72.79	-53.12	-13.00	40.12	19.67	Horizontal
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	41.6458	-82.64	-62.71	-13.00	49.71	19.93	Vertical
2	97.4487	-80.83	-56.68	-13.00	43.68	24.15	Vertical
3	488.069	-88.40	-58.17	-13.00	45.17	30.23	Vertical
4	704.487	-87.75	-53.76	-13.00	40.76	33.99	Vertical
5	7565.28	-69.98	-53.53	-13.00	40.53	16.45	Vertical
6	12786.8	-71.82	-52.75	-13.00	39.75	19.07	Vertical

NR Band n77_100MHz_DFT-s-BPSK_Edge_1RB_Left_Mid_CH - ANT11							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	41.1606	-83.23	-61.93	-13.00	48.93	21.30	Horizontal
2	97.4487	-81.87	-62.66	-13.00	49.66	19.21	Horizontal
3	293.001	-83.66	-58.41	-13.00	45.41	25.25	Horizontal
4	488.069	-88.90	-57.15	-13.00	44.15	31.75	Horizontal
5	7420.71	-66.34	-50.00	-13.00	37.00	16.34	Horizontal
6	12778.3	-63.31	-44.25	-13.00	31.25	19.06	Horizontal
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	41.1606	-84.61	-64.62	-13.00	51.62	19.99	Vertical
2	97.4487	-80.88	-56.73	-13.00	43.73	24.15	Vertical
3	488.069	-88.75	-58.52	-13.00	45.52	30.23	Vertical
4	2454.22	-63.06	-61.04	-13.00	48.04	2.02	Vertical
5	8662.33	-64.61	-48.95	-13.00	35.95	15.66	Vertical
6	12446.7	-63.40	-44.59	-13.00	31.59	18.81	Vertical

NR Band n78_100MHz_DFT-s-BPSK_Edge_1RB_Left_Mid_CH - ANT5							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	41.6458	-84.88	-63.69	-13.00	50.69	21.19	Horizontal
2	293.001	-84.31	-59.06	-13.00	46.06	25.25	Horizontal
3	488.069	-88.36	-56.61	-13.00	43.61	31.75	Horizontal
4	5184.09	-68.63	-56.07	-13.00	43.07	12.56	Horizontal
5	8628.31	-64.84	-49.15	-13.00	36.15	15.69	Horizontal
6	12761.3	-64.15	-45.10	-13.00	32.10	19.05	Horizontal
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	42.1311	-84.51	-64.65	-13.00	51.65	19.86	Vertical
2	97.4487	-80.83	-56.68	-13.00	43.68	24.15	Vertical
3	293.001	-83.91	-58.72	-13.00	45.72	25.19	Vertical
4	586.088	-91.22	-58.62	-13.00	45.62	32.60	Vertical
5	8492.24	-65.28	-49.65	-13.00	36.65	15.63	Vertical
6	12344.6	-63.34	-44.62	-13.00	31.62	18.72	Vertical

NR Band n78 _100MHz_DFT-s-BPSK_Edge_1RB_Left_Mid_CH - ANT11							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	97.4487	-81.17	-61.96	-13.00	48.96	19.21	Horizontal
2	293.001	-84.59	-59.34	-13.00	46.34	25.25	Horizontal
3	488.069	-88.73	-56.98	-13.00	43.98	31.75	Horizontal
4	5065.03	-68.20	-55.30	-13.00	42.30	12.90	Horizontal
5	8339.16	-64.54	-48.86	-13.00	35.86	15.68	Horizontal
6	12489.2	-63.55	-44.67	-13.00	31.67	18.88	Horizontal
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	97.4487	-70.51	-46.36	-13.00	33.36	24.15	Vertical
2	390.535	-87.37	-59.49	-13.00	46.49	27.88	Vertical
3	488.069	-91.03	-60.80	-13.00	47.80	30.23	Vertical
4	2071.53	-66.93	-66.43	-13.00	53.43	0.50	Vertical
5	8594.29	-65.18	-49.47	-13.00	36.47	15.71	Vertical
6	12956.9	-63.18	-44.19	-13.00	31.19	18.99	Vertical

DC_5A_n78A_100MHz_DFT-s-BPSK_Edge_1RB_Left_Mid_CH							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	42.1311	-81.13	-60.05	-13.00	47.05	21.08	Horizontal
2	74.1571	-83.58	-64.32	-13.00	51.32	19.26	Horizontal
3	802.991	-104.11	-67.02	-13.00	54.02	37.09	Horizontal
4	7488.74	-69.43	-52.84	-13.00	39.84	16.59	Horizontal
5	9334.16	-65.09	-48.82	-13.00	35.82	16.27	Horizontal
6	12327.6	-62.69	-43.98	-13.00	30.98	18.71	Horizontal
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	41.6458	-81.48	-61.55	-13.00	48.55	19.93	Vertical
2	74.1571	-91.97	-70.39	-13.00	57.39	21.58	Vertical
3	773.391	-104.31	-68.32	-13.00	55.32	35.99	Vertical
4	8611.30	-65.19	-49.48	-13.00	36.48	15.71	Vertical
5	12489.2	-63.40	-44.52	-13.00	31.52	18.88	Vertical
6	17311.1	-62.24	-37.39	-13.00	24.39	24.85	Vertical

2.7. Frequency Stability

2.7.1. Requirement

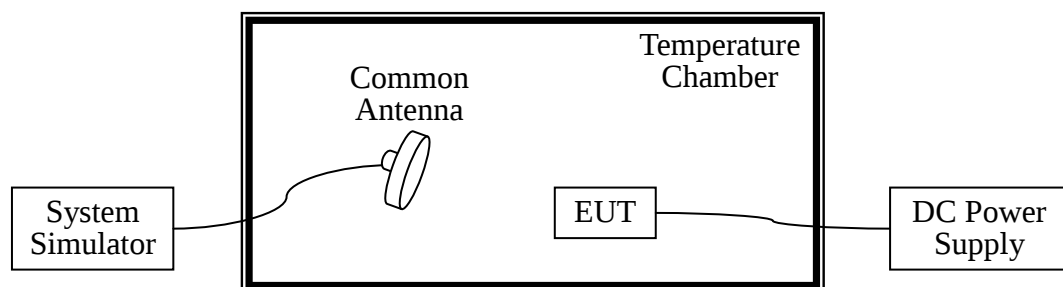
According to FCC requirement, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ ($\pm 2.5\text{ppm}$) of the center frequency. According to FCC section 2.1055, the test conditions are:

- (1) The temperature is varied from -30°C to $+50^{\circ}\text{C}$ at intervals of not more than 10°C .
- (2) For hand carried battery powered equipment, the primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacture. The supply voltage shall be measured at the input to the cable normally provided with the equipment, or at the power supply terminals if cables are not normally provided.

2.7.2. Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.7.3. Test Setup



2.7.4. Test Procedures

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.
4. The nominal, highest and lowest extreme voltages were tested, which are specified by the applicant; the normal temperature here used is 20°C .
5. The variation in frequency was measured for the worst case.



2.7.5. Test Result of Frequency Stability

Please refer to Appendix A for detail

3. List of measuring equipment

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	EMI Test Receiver	ROHDE&SCHWARZ	ESW26	A180502935	2021.08.03	2022.08.02
2	5M Anechoic Chamber	Albatross	SAC-5MAC 12.8x6.8x6.4m	A0304210	2019.03.25	2023.03.24
3	Loop Antenna	Schwarz beck	HFH2-Z2	A0304220	2022.05.02	2025.05.01
4	Broadband antenna (30MHz~1GHz)	R&S	HL562	A0304224	2020.06.19	2023.06.18
5	EMI Horn Ant. (1-18G)	ETC	1209	A150402241	2021.01.02	2024.01.01
6	Horn antenna (18GHz~26.5GHz)	AR	AT4510	A0804450	2020.06.19	2023.06.18
7	Amplifier 30M~1GHz	MILMEGA	80RF1000-10004	A140101634	2020.09.22	2023.09.21
8	Amplifier 1G~18GHz	MILMEGA	AS0104R-800/400	A160302517	2021.12.23	2022.12.22
9	Spectrum Analyzer	KEYSIGHT	N9030A	A160702554	2022.03.25	2023.03.24
10	Test Receiver	R&S	ESIB7	A0501375	2022.04.18	2023.04.17
11	Broadband Ant.	2786	ETC	A150402240	2021.09.16	2024.03.03
12	3M Anechoic Chamber	Albatross	SAC-3MAC 9*6*6m	A0412375	2019.03.26	2023.03.25
13	Temperature chamber	TABAI	PS-232	A8708054	2021.09.24	2022.09.23
14	Wideband Radio Communication tester	R&S	CMW500	A130101034	2021.01.26	2023.01.25
15	Wideband Radio Communication tester	R&S	CMW500	A150802214	2021.07.23	2022.07.22
16	Test Receiver	KEYSIGHT	N9038A	A141202036	2021.09.20	2022.08.04
17	LISN	ROHDE&SCHWARZ	ENV216	A140701847	2021.09.21	2022.08.02
18	Cable	MATCHING PAD	W7	/	2021.08.01	2022.08.02
19	Wideband Radio Communication tester	KEYSIGHT	E7515B	A210603658	2022.03.25	2023.03.24

4. Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.10-2013. All the measurement uncertainty value were shown with a coverage $K=2$ to indicate 95% level of confidence . The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Conducted Emission Measurement (150kHz~30MHz)

Measuring Uncertainty for a level of confidence of 95%($U=2U_c(y)$)	2.8dB
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Uncertainty of Radiated Emission Measurement (9kHz~30MHz)

Measuring Uncertainty for a level of confidence of 95%($U=2U_c(y)$)	3.5dB
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Uncertainty of Radiated Emission Measurement (30MHz~1GHz)

Measuring Uncertainty for a level of confidence of 95%($U=2U_c(y)$)	3.91dB
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Uncertainty of Radiated Emission Measurement (1GHz~18GHz)

Measuring Uncertainty for a level of confidence of 95%($U=2U_c(y)$)	4.5dB
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Uncertainty of Radiated Emission Measurement (18GHz~40GHz)

Measuring Uncertainty for a level of confidence of 95%($U=2U_c(y)$)	4.9dB
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Uncertainty of RF Conducted Measurement (9kHz~40GHz)

Measuring Uncertainty for a level of confidence of 95%($U=2U_c(y)$)	1.2dB
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APPENDIX A

Conducted Output Power and ERP/EIRP

NR Band N5 - Ant1:

NR Band n5 - SCS 15kHz - 5MHz Bandwidth - DFT-s-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. ERP (dBm)	ERP Limit (dBm)
			165300	167300	169300			
			826.5MHz	836.5MHz	846.5MHz			
PI/2 BPSK	1	1	24.49	24.58	24.67	-6.00	16.52	38.45
	1	13	24.65	24.41	24.53			
	1	23	24.40	24.50	24.51			
	12	0	23.32	23.47	23.33			
	12	6	23.36	23.23	23.27			
	12	13	23.23	23.31	23.25			
	25	0	23.12	23.09	23.10			
QPSK	1	1	24.71	24.62	24.54	-6.00	16.56	38.45
	1	13	24.63	24.38	24.63			
	1	23	24.70	24.56	24.24			
	12	0	23.52	23.65	23.44			
	12	6	23.46	23.79	23.83			
	12	13	23.39	23.75	23.79			
	25	0	23.35	23.13	23.42			
16QAM	1	1	23.01	23.09	22.67	-6.00	14.94	38.45
64QAM	1	1	21.90	22.65	21.30	-6.00	14.50	38.45
256QAM	1	1	20.03	20.03	19.13	-6.00	11.88	38.45
NR Band n5 - SCS 15kHz - 5MHz Bandwidth - CP-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. ERP (dBm)	ERP Limit (dBm)
			165300	167300	169300			
			826.5MHz	836.5MHz	846.5MHz			
QPSK	1	1	23.42	23.58	23.53	-6.00	15.43	38.45
	1	13	23.54	23.55	23.20			
	1	23	23.53	23.47	23.58			
	13	0	22.54	22.76	22.75			
	13	6	22.61	22.71	22.40			
	13	12	22.46	22.69	22.56			
	25	0	22.11	22.11	21.97			
16QAM	1	1	22.02	22.06	22.31	-6.00	14.16	38.45
64QAM	1	1	21.65	21.66	21.64	-6.00	13.51	38.45
256QAM	1	1	18.16	18.14	18.19	-6.00	10.04	38.45

NR Band n5 - SCS 15kHz - 10MHz Bandwidth - DFT-s-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. ERP (dBm)	ERP Limit (dBm)
			165800	167300	168800			
			829.0MHz	836.5MHz	844.0MHz			
PI/2 BPSK	1	1	24.53	24.48	24.35	-6.00	16.47	38.45
	1	26	24.62	24.49	24.42			
	1	50	24.40	24.36	24.33			
	25	0	23.31	23.31	23.40			
	25	12	23.46	23.42	23.33			
	25	27	23.44	23.37	23.38			
	50	0	23.42	23.35	23.39			
QPSK	1	1	24.72	24.66	24.51	-6.00	16.57	38.45
	1	26	24.65	24.58	24.65			
	1	50	24.51	24.42	24.67			
	25	0	23.62	23.49	23.57			
	25	12	23.53	23.77	23.69			
	25	27	23.41	23.54	23.48			
	50	0	23.47	23.42	23.49			
16QAM	1	1	22.96	22.64	22.94	-6.00	14.81	38.45
64QAM	1	1	21.55	21.31	21.49	-6.00	13.40	38.45
256QAM	1	1	20.00	19.92	19.98	-6.00	11.85	38.45
NR Band n5 - SCS 15kHz - 10MHz Bandwidth - CP-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. ERP (dBm)	ERP Limit (dBm)
			165800	167300	168800			
			829.0MHz	836.5MHz	844.0MHz			
QPSK	1	1	23.53	23.61	23.59	-6.00	15.79	38.45
	1	26	23.49	23.70	23.94			
	1	50	23.69	23.67	23.75			
	26	0	22.38	22.31	22.40			
	26	13	22.44	22.84	22.41			
	26	26	22.26	22.34	22.42			
	52	0	22.15	22.15	22.03			
16QAM	1	1	21.91	21.93	21.89	-6.00	13.78	38.45
64QAM	1	1	21.54	22.60	21.50	-6.00	14.45	38.45
256QAM	1	1	18.13	18.24	18.18	-6.00	10.09	38.45

NR Band n5 - SCS 15kHz - 15MHz Bandwidth - DFT-s-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. ERP (dBm)	ERP Limit (dBm)
			166300	167300	168300			
			831.5MHz	836.5MHz	841.5MHz			
PI/2 BPSK	1	1	24.38	24.32	24.16	-6.00	16.43	38.45
	1	39	24.58	24.55	24.55			
	1	77	24.49	24.42	24.31			
	36	0	23.51	23.45	23.39			
	36	18	23.39	24.08	23.56			
	36	43	23.48	23.44	23.31			
	75	0	23.09	22.45	22.37			
QPSK	1	1	24.58	24.67	24.71	-6.00	16.57	38.45
	1	39	24.72	24.70	24.68			
	1	77	24.53	24.62	24.53			
	36	0	23.67	23.63	23.88			
	36	18	23.75	23.71	23.88			
	36	43	23.71	23.61	23.84			
	75	0	23.63	23.52	23.57			
16QAM	1	1	23.42	23.49	23.48	-6.00	15.34	38.45
64QAM	1	1	22.46	22.31	22.43	-6.00	14.31	38.45
256QAM	1	1	19.96	19.85	20.13	-6.00	11.98	38.45
NR Band n5 - SCS 15kHz - 15MHz Bandwidth - CP-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. ERP (dBm)	ERP Limit (dBm)
			166300	167300	168300			
			831.5MHz	836.5MHz	841.5MHz			
QPSK	1	1	24.18	24.14	24.04	-6.00	16.17	38.45
	1	39	24.20	24.08	24.10			
	1	77	24.14	24.32	24.03			
	39	0	23.32	23.24	23.41			
	39	19	23.26	23.16	23.33			
	39	40	23.25	23.31	23.49			
	79	0	23.20	23.15	23.25			
16QAM	1	1	22.18	22.25	22.22	-6.00	14.10	38.45
64QAM	1	1	21.75	21.82	21.81	-6.00	13.67	38.45
256QAM	1	1	18.38	18.50	18.35	-6.00	10.35	38.45

NR Band n5 - SCS 15kHz - 20MHz Bandwidth - DFT-s-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. ERP (dBm)	ERP Limit (dBm)
			166800	167300	167800			
			834.0MHz	836.5MHz	839.0MHz			
PI/2 BPSK	1	1	24.38	24.36	24.37	-6.00	16.23	38.45
	1	53	24.27	24.23	24.16			
	1	104	24.35	24.22	24.28			
	50	0	23.52	23.66	23.56			
	50	25	23.64	23.56	23.49			
	50	56	23.49	23.54	23.53			
	100	0	23.57	23.48	23.47			
QPSK	1	1	24.72	24.67	24.64	-6.00	16.57	38.45
	1	53	24.66	24.54	24.67			
	1	104	24.65	24.39	24.59			
	50	0	23.80	23.83	23.80			
	50	25	23.75	23.85	23.70			
	50	56	23.71	23.95	23.88			
	100	0	23.66	23.74	23.72			
16QAM	1	1	23.65	23.51	23.54	-6.00	15.50	38.45
64QAM	1	1	21.89	21.87	21.96	-6.00	13.81	38.45
256QAM	1	1	19.50	19.35	19.79	-6.00	11.64	38.45
NR Band n5 - SCS 15kHz - 20MHz Bandwidth - CP-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. ERP (dBm)	ERP Limit (dBm)
			166800	167300	167800			
			834.0MHz	836.5MHz	839.0MHz			
QPSK	1	1	24.26	24.06	24.22	-6.00	16.20	38.45
	1	53	24.35	24.22	24.21			
	1	104	24.13	24.21	24.13			
	53	0	23.40	23.55	23.51			
	53	26	23.52	23.45	23.44			
	53	53	23.37	23.43	23.48			
	106	0	23.45	23.37	23.42			
16QAM	1	1	23.41	23.37	23.46	-6.00	15.31	38.45
64QAM	1	1	21.79	21.82	21.83	-6.00	13.68	38.45
256QAM	1	1	18.40	18.38	18.40	-6.00	10.25	38.45

NR Band N41 - Ant2:

NR Band n41 - SCS 30kHz - 20MHz Bandwidth - DFT-s-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			501204	518598	535998			
			2506.02MHz	2592.99MHz	2679.99MHz			
PI/2 BPSK	1	1	25.12	25.11	25.04	-0.70	24.60	33.00
	1	25	25.08	25.00	25.01			
	1	49	25.08	25.07	25.30			
	25	0	23.94	23.97	24.25			
	25	12	24.05	23.85	23.92			
	25	26	24.17	23.82	23.86			
	50	0	23.65	23.74	24.03			
QPSK	1	1	25.42	25.32	25.23	-0.70	24.80	33.00
	1	25	25.50	25.17	25.39			
	1	49	25.02	25.36	25.32			
	25	0	24.03	24.13	24.36			
	25	12	24.35	24.23	24.18			
	25	26	24.28	24.06	24.09			
	50	0	24.15	24.06	24.13			
16QAM	1	1	23.89	23.99	23.88	-0.70	23.29	33.00
64QAM	1	1	22.15	22.45	22.23	-0.70	21.75	33.00
256QAM	1	1	20.35	20.18	20.36	-0.70	19.66	33.00
NR Band n41 - SCS 30kHz - 20MHz Bandwidth - CP-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			501204	518598	535998			
			2506.02MHz	2592.99MHz	2679.99MHz			
QPSK	1	1	24.85	24.65	24.73	-0.70	24.15	33.00
	1	25	24.78	24.75	24.53			
	1	49	24.49	24.68	24.42			
	25	0	23.58	23.42	23.49			
	25	12	23.59	23.52	23.60			
	25	26	23.56	23.65	23.63			
	51	0	23.36	23.46	23.59			
16QAM	1	1	23.74	23.47	23.46	-0.70	23.04	33.00
64QAM	1	1	22.11	22.09	21.95	-0.70	21.41	33.00
256QAM	1	1	18.72	18.70	18.53	-0.70	18.02	33.00

NR Band n41 - SCS 30kHz - 30MHz Bandwidth - DFT-s-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			502200	518598	534996			
			2511.00MHz	2592.99MHz	2674.98MHz			
PI/2 BPSK	1	1	25.18	25.07	25.01	-0.70	24.62	33.00
	1	39	25.09	25.03	25.10			
	1	76	25.32	25.25	24.89			
	36	0	24.12	24.04	24.01			
	36	18	23.82	23.79	23.92			
	36	42	23.78	24.01	23.75			
	75	0	23.99	23.91	23.80			
QPSK	1	1	25.34	25.32	25.28	-0.70	24.83	33.00
	1	39	25.31	25.41	25.38			
	1	76	25.53	25.38	25.17			
	36	0	24.16	24.08	24.14			
	36	16	24.29	24.20	24.00			
	36	42	24.09	23.95	24.20			
	75	0	24.12	24.11	24.15			
16QAM	1	1	23.81	23.63	23.81	-0.70	23.11	33.00
64QAM	1	1	22.33	22.62	22.32	-0.70	21.92	33.00
256QAM	1	1	20.67	19.76	20.77	-0.70	20.07	33.00
NR Band n41 - SCS 30kHz - 30MHz Bandwidth - CP-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			502200	518598	534996			
			2511.00MHz	2592.99MHz	2674.98MHz			
QPSK	1	1	24.71	24.61	24.52	-0.70	24.05	33.00
	1	39	24.58	24.75	24.55			
	1	76	24.54	24.65	24.56			
	39	0	23.31	23.20	23.60			
	39	19	23.42	23.43	23.46			
	39	39	23.33	23.36	23.40			
	78	0	23.53	23.41	23.39			
16QAM	1	1	23.26	23.28	23.36	-0.70	22.66	33.00
64QAM	1	1	21.99	22.09	22.29	-0.70	21.59	33.00
256QAM	1	1	18.56	18.71	18.57	-0.70	18.01	33.00

NR Band n41 - SCS 30kHz - 40MHz Bandwidth - DFT-s-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			503202	518598	534000			
			2516.01MHz	2592.99MHz	2670.00MHz			
PI/2 BPSK	1	1	24.81	24.85	24.91	-0.70	24.29	33.00
	1	53	24.99	24.90	24.99			
	1	104	24.94	24.98	24.79			
	50	0	24.01	23.99	23.82			
	50	25	24.01	24.01	23.84			
	50	56	24.29	23.95	23.66			
	100	0	23.84	23.76	23.67			
QPSK	1	1	25.17	25.25	25.26	-0.70	24.62	33.00
	1	53	25.32	24.97	25.16			
	1	104	25.22	25.10	25.28			
	50	0	24.27	24.07	24.21			
	50	25	24.03	24.18	24.05			
	50	56	23.99	24.03	24.16			
	100	0	24.07	24.05	24.16			
16QAM	1	1	23.62	23.88	23.94	-0.70	23.24	33.00
64QAM	1	1	22.17	21.97	22.14	-0.70	21.47	33.00
256QAM	1	1	20.75	20.48	20.69	-0.70	20.05	33.00
NR Band n41 - SCS 30kHz - 40MHz Bandwidth - CP-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			503202	518598	534000			
			2516.01MHz	2592.99MHz	2670.00MHz			
QPSK	1	1	24.20	24.44	24.47	-0.70	23.94	33.00
	1	53	23.80	24.64	23.80			
	1	104	24.19	23.92	24.51			
	53	0	23.37	23.19	23.60			
	53	26	23.34	23.03	23.29			
	53	53	23.29	23.61	23.48			
	106	0	23.06	23.37	23.35			
16QAM	1	1	23.13	23.20	23.08	-0.70	22.50	33.00
64QAM	1	1	22.14	21.95	22.08	-0.70	21.44	33.00
256QAM	1	1	18.72	18.74	18.39	-0.70	18.04	33.00

NR Band n41 - SCS 30kHz - 50MHz Bandwidth - DFT-s-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			504204	518598	532998			
			2521.02MHz	2592.99MHz	2664.99MHz			
PI/2 BPSK	1	1	24.85	24.74	25.02	-0.70	24.50	33.00
	1	67	25.20	25.03	25.11			
	1	131	24.90	24.82	25.03			
	64	0	23.94	23.92	24.06			
	64	32	23.95	24.17	23.97			
	64	69	24.10	23.94	23.98			
	128	0	24.03	23.86	23.85			
QPSK	1	1	24.97	25.21	24.98	-0.70	24.75	33.00
	1	67	25.40	25.25	25.29			
	1	131	25.09	25.25	25.45			
	64	0	24.55	24.08	24.36			
	64	32	24.39	24.27	24.30			
	64	69	24.20	24.48	24.51			
	128	0	24.18	24.01	24.09			
16QAM	1	1	23.79	23.66	24.06	-0.70	23.36	33.00
64QAM	1	1	22.16	22.02	22.29	-0.70	21.59	33.00
256QAM	1	1	20.35	20.57	20.43	-0.70	19.87	33.00
NR Band n41 - SCS 30kHz - 50MHz Bandwidth - CP-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			504204	518598	532998			
			2521.02MHz	2592.99MHz	2664.99MHz			
QPSK	1	1	24.59	24.55	24.53	-0.70	23.92	33.00
	1	67	24.58	24.62	24.41			
	1	131	24.37	24.51	24.40			
	67	0	23.51	23.51	23.18			
	67	33	23.53	23.68	23.28			
	67	66	23.46	23.57	23.51			
	133	0	23.32	23.40	23.28			
16QAM	1	1	23.36	23.39	23.34	-0.70	22.69	33.00
64QAM	1	1	21.62	21.55	21.53	-0.70	20.92	33.00
256QAM	1	1	18.53	18.41	18.31	-0.70	17.83	33.00

NR Band n41 - SCS 30kHz - 60MHz Bandwidth - DFT-s-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			505200	518598	531996			
			2526.00MHz	2592.99MHz	2659.98MHz			
PI/2 BPSK	1	1	25.14	24.79	24.77	-0.70	24.44	33.00
	1	81	24.90	24.99	24.90			
	1	160	24.91	25.02	24.49			
	81	0	23.69	23.84	23.97			
	81	40	23.72	23.87	23.95			
	81	81	23.98	23.96	23.80			
	162	0	23.90	23.77	23.89			
QPSK	1	1	25.30	25.25	25.30	-0.70	24.84	33.00
	1	81	25.26	25.29	25.30			
	1	160	24.98	25.54	25.20			
	81	0	24.36	24.05	24.19			
	81	40	24.18	24.30	24.17			
	81	81	24.36	24.31	24.16			
	162	0	24.31	24.13	24.13			
16QAM	1	1	24.08	23.80	23.71	-0.70	23.38	33.00
64QAM	1	1	22.49	22.40	22.35	-0.70	21.79	33.00
256QAM	1	1	20.51	20.46	20.24	-0.70	19.81	33.00
NR Band n41 - SCS 30kHz - 60MHz Bandwidth - CP-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			505200	518598	531996			
			2526.00MHz	2592.99MHz	2659.98MHz			
QPSK	1	1	24.50	24.43	24.35	-0.70	24.22	33.00
	1	81	24.61	24.71	24.92			
	1	160	24.73	24.53	24.39			
	81	0	23.54	23.45	23.36			
	81	40	23.43	23.66	23.55			
	81	81	23.38	23.31	23.54			
	162	0	23.49	23.27	23.30			
16QAM	1	1	23.22	23.08	23.38	-0.70	22.68	33.00
64QAM	1	1	21.73	22.01	22.05	-0.70	21.35	33.00
256QAM	1	1	18.36	18.38	18.34	-0.70	17.68	33.00

NR Band n41 - SCS 30kHz - 80MHz Bandwidth - DFT-s-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			507204	518598	529998			
			2536.02MHz	2592.99MHz	2649.99MHz			
PI/2 BPSK	1	1	24.79	24.73	25.03	-0.70	24.41	33.00
	1	109	24.95	24.83	24.95			
	1	215	25.11	24.74	24.72			
	108	0	23.93	24.12	23.97			
	108	54	24.30	24.07	24.11			
	108	109	24.12	23.92	24.30			
	216	0	24.10	23.85	24.19			
QPSK	1	1	25.23	25.09	25.40	-0.70	24.70	33.00
	1	109	25.30	25.25	25.17			
	1	215	25.08	25.06	25.29			
	108	0	24.41	24.49	24.39			
	108	54	24.47	24.16	24.50			
	108	109	24.37	24.25	24.54			
	216	0	23.19	24.09	24.39			
16QAM	1	1	23.98	24.23	23.81	-0.70	23.53	33.00
64QAM	1	1	22.36	22.47	22.49	-0.70	21.79	33.00
256QAM	1	1	20.33	20.15	20.13	-0.70	19.63	33.00
NR Band n41 - SCS 30kHz - 80MHz Bandwidth - CP-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			507204	518598	529998			
			2536.02MHz	2592.99MHz	2649.99MHz			
QPSK	1	1	24.71	24.77	24.66	-0.70	24.07	33.00
	1	109	24.71	24.56	24.47			
	1	215	24.46	24.68	24.61			
	109	0	23.29	23.47	23.55			
	109	54	23.52	23.57	23.38			
	109	108	23.47	23.48	23.54			
	217	0	23.33	23.23	23.32			
16QAM	1	1	23.22	23.28	23.11	-0.70	22.58	33.00
64QAM	1	1	21.82	21.54	21.56	-0.70	21.12	33.00
256QAM	1	1	18.32	18.44	18.23	-0.70	17.74	33.00

NR Band n41 - SCS 30kHz - 90MHz Bandwidth - DFT-s-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			508200	518598	528996			
			2541.00MHz	2592.99MHz	2644.98MHz			
PI/2 BPSK	1	1	24.68	24.86	24.99	-0.70	24.58	33.00
	1	123	25.00	24.68	24.87			
	1	243	25.25	24.88	25.28			
	120	0	24.28	24.18	23.95			
	120	60	24.00	23.93	24.05			
	120	125	23.89	23.83	24.04			
	240	0	24.07	23.83	24.06			
QPSK	1	1	24.94	25.45	25.14	-0.70	24.75	33.00
	1	123	25.19	25.11	25.45			
	1	243	25.23	24.99	24.86			
	120	0	24.06	23.87	24.31			
	120	60	24.29	24.19	24.48			
	120	125	24.14	24.38	24.55			
	240	0	24.02	24.20	24.28			
16QAM	1	1	23.85	23.87	24.08	-0.70	23.38	33.00
64QAM	1	1	22.46	22.46	22.39	-0.70	21.76	33.00
256QAM	1	1	20.66	20.30	20.24	-0.70	19.96	33.00
NR Band n41 - SCS 30kHz - 90MHz Bandwidth - CP-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			508200	518598	528996			
			2541.00MHz	2592.99MHz	2644.98MHz			
QPSK	1	1	24.41	24.68	24.52	-0.70	24.04	33.00
	1	123	24.41	24.40	24.69			
	1	243	24.53	24.74	24.41			
	123	0	23.41	23.50	23.41			
	123	61	23.50	23.28	23.40			
	123	122	22.84	23.54	23.61			
	245	0	23.43	23.42	23.31			
16QAM	1	1	23.38	23.40	23.39	-0.70	22.70	33.00
64QAM	1	1	22.10	22.03	22.22	-0.70	21.52	33.00
256QAM	1	1	19.08	18.98	18.83	-0.70	18.38	33.00

NR Band n41 - SCS 30kHz - 100MHz Bandwidth - DFT-s-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			509202	518598	528000			
			2546.01MHz	2592.99MHz	2640.00MHz			
PI/2 BPSK	1	1	24.97	24.72	24.93	-0.70	24.47	33.00
	1	137	24.90	24.89	25.06			
	1	271	25.16	25.17	24.82			
	135	0	24.05	24.16	23.90			
	135	67	23.76	23.97	23.69			
	135	138	23.91	23.99	24.24			
	270	0	23.99	23.81	23.95			
QPSK	1	1	25.41	25.39	25.33	-0.70	24.78	33.00
	1	137	25.15	25.41	25.48			
	1	271	25.21	25.35	25.09			
	135	0	24.11	24.24	24.14			
	135	67	24.26	24.16	24.11			
	135	138	24.10	24.21	24.27			
	270	0	24.10	24.13	24.11			
16QAM	1	1	23.82	24.08	23.72	-0.70	23.38	33.00
64QAM	1	1	22.08	22.37	22.53	-0.70	21.83	33.00
256QAM	1	1	20.55	20.40	20.29	-0.70	19.85	33.00
NR Band n41 - SCS 30kHz - 100MHz Bandwidth - CP-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			509202	518598	528000			
			2546.01MHz	2592.99MHz	2640.00MHz			
QPSK	1	1	24.61	24.48	24.79	-0.70	24.09	33.00
	1	137	24.30	24.63	24.43			
	1	271	24.49	24.43	24.56			
	137	0	23.48	23.56	23.59			
	137	68	23.59	23.21	23.57			
	137	136	23.46	23.41	23.45			
	273	0	23.36	23.42	23.20			
16QAM	1	1	23.39	23.47	23.33	-0.70	22.77	33.00
64QAM	1	1	22.27	21.96	22.37	-0.70	21.67	33.00
256QAM	1	1	19.26	18.87	19.00	-0.70	18.56	33.00

NR Band N41 - Ant5:

NR Band n41 - SCS 30kHz - 20MHz Bandwidth - DFT-s-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			501204	518598	535998			
			2506.02MHz	2592.99MHz	2679.99MHz			
PI/2 BPSK	1	1	25.08	25.05	25.01	-0.10	25.11	33.00
	1	25	25.19	25.12	25.11			
	1	49	25.21	25.21	25.20			
	25	0	23.91	23.87	24.16			
	25	12	24.06	23.95	24.04			
	25	26	24.08	23.94	23.97			
	50	0	23.79	23.84	24.05			
QPSK	1	1	25.32	25.34	25.26	-0.10	25.35	33.00
	1	25	25.45	25.27	25.43			
	1	49	25.16	25.38	25.30			
	25	0	24.18	24.17	24.28			
	25	12	24.43	24.33	24.20			
	25	26	24.31	24.12	24.22			
	50	0	24.06	24.03	24.15			
16QAM	1	1	24.01	23.98	24.01	-0.10	23.91	33.00
64QAM	1	1	22.17	22.38	22.30	-0.10	22.28	33.00
256QAM	1	1	20.44	20.16	20.42	-0.10	20.34	33.00
NR Band n41 - SCS 30kHz - 20MHz Bandwidth - CP-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			501204	518598	535998			
			2506.02MHz	2592.99MHz	2679.99MHz			
QPSK	1	1	24.77	24.80	24.66	-0.10	24.70	33.00
	1	25	24.75	24.68	24.60			
	1	49	24.60	24.76	24.54			
	25	0	23.60	23.50	23.48			
	25	12	23.55	23.59	23.71			
	25	26	23.51	23.62	23.60			
	51	0	23.47	23.48	23.65			
16QAM	1	1	23.74	23.61	23.54	-0.10	23.64	33.00
64QAM	1	1	22.08	22.10	22.08	-0.10	22.00	33.00
256QAM	1	1	18.75	18.85	18.66	-0.10	18.75	33.00

NR Band n41 - SCS 30kHz - 30MHz Bandwidth - DFT-s-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			502200	518598	534996			
			2511.00MHz	2592.99MHz	2674.98MHz			
PI/2 BPSK	1	1	25.14	25.15	25.10	-0.10	25.17	33.00
	1	39	25.11	25.03	25.14			
	1	76	25.27	25.21	24.92			
	36	0	24.06	24.15	24.11			
	36	18	23.88	23.84	24.00			
	36	42	23.91	24.03	23.86			
	75	0	23.89	23.85	23.86			
QPSK	1	1	25.31	25.31	25.26	-0.10	25.35	33.00
	1	39	25.41	25.33	25.43			
	1	76	25.45	25.33	25.28			
	36	0	24.12	24.16	24.04			
	36	16	24.03	24.10	24.12			
	36	42	24.09	24.08	24.11			
	75	0	23.93	24.01	24.07			
16QAM	1	1	23.76	23.70	23.81	-0.10	23.71	33.00
64QAM	1	1	22.47	22.55	22.42	-0.10	22.45	33.00
256QAM	1	1	20.72	19.81	20.72	-0.10	20.62	33.00
NR Band n41 - SCS 30kHz - 30MHz Bandwidth - CP-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			502200	518598	534996			
			2511.00MHz	2592.99MHz	2674.98MHz			
QPSK	1	1	24.72	24.68	24.62	-0.10	24.62	33.00
	1	39	24.52	24.72	24.50			
	1	76	24.67	24.60	24.59			
	39	0	23.34	23.33	23.52			
	39	19	23.52	23.35	23.43			
	39	39	23.31	23.40	23.48			
	78	0	23.46	22.37	23.36			
16QAM	1	1	23.37	23.37	23.36	-0.10	23.27	33.00
64QAM	1	1	22.08	22.17	22.23	-0.10	22.13	33.00
256QAM	1	1	18.65	18.72	18.63	-0.10	18.62	33.00

NR Band n41 - SCS 30kHz - 40MHz Bandwidth - DFT-s-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			503202	518598	534000			
			2516.01MHz	2592.99MHz	2670.00MHz			
PI/2 BPSK	1	1	24.83	24.88	24.96	-0.10	24.86	33.00
	1	53	24.90	24.81	24.91			
	1	104	24.91	24.88	24.86			
	50	0	24.05	23.95	23.83			
	50	25	24.15	24.02	23.85			
	50	56	24.27	23.97	23.75			
	100	0	23.91	23.80	23.68			
QPSK	1	1	25.28	25.27	25.30	-0.10	25.33	33.00
	1	53	25.43	25.08	25.22			
	1	104	25.21	25.24	25.41			
	50	0	24.31	24.08	24.15			
	50	25	24.12	24.11	24.20			
	50	56	24.11	24.09	24.28			
	100	0	24.00	24.03	24.07			
16QAM	1	1	23.75	23.80	23.88	-0.10	23.78	33.00
64QAM	1	1	22.07	22.11	22.29	-0.10	22.19	33.00
256QAM	1	1	20.73	20.62	20.67	-0.10	20.63	33.00
NR Band n41 - SCS 30kHz - 40MHz Bandwidth - CP-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			503202	518598	534000			
			2516.01MHz	2592.99MHz	2670.00MHz			
QPSK	1	1	24.29	24.55	24.57	-0.10	24.52	33.00
	1	53	23.94	24.62	23.81			
	1	104	24.16	24.03	24.49			
	53	0	23.43	23.28	23.54			
	53	26	23.37	23.12	23.41			
	53	53	23.28	23.59	23.50			
	106	0	23.18	23.33	23.45			
16QAM	1	1	23.14	23.24	23.05	-0.10	23.14	33.00
64QAM	1	1	22.25	21.95	22.09	-0.10	22.15	33.00
256QAM	1	1	18.70	18.78	18.52	-0.10	18.68	33.00

NR Band n41 - SCS 30kHz - 50MHz Bandwidth - DFT-s-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			504204	518598	532998			
			2521.02MHz	2592.99MHz	2664.99MHz			
PI/2 BPSK	1	1	24.98	24.82	24.93	-0.10	25.08	33.00
	1	67	25.12	24.97	25.18			
	1	131	24.95	24.90	25.01			
	64	0	24.04	23.94	24.05			
	64	32	23.99	24.17	23.94			
	64	69	24.10	24.02	24.03			
	128	0	23.98	23.77	23.98			
QPSK	1	1	25.05	25.29	25.09	-0.10	25.32	33.00
	1	67	25.42	25.20	25.30			
	1	131	25.07	25.27	25.39			
	64	0	24.47	24.20	24.47			
	64	32	24.32	24.29	24.45			
	64	69	24.20	24.41	24.42			
	128	0	24.19	24.14	24.13			
16QAM	1	1	23.92	23.80	24.00	-0.10	23.90	33.00
64QAM	1	1	22.18	22.00	22.24	-0.10	22.14	33.00
256QAM	1	1	20.50	20.53	20.49	-0.10	20.43	33.00
NR Band n41 - SCS 30kHz - 50MHz Bandwidth - CP-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			504204	518598	532998			
			2521.02MHz	2592.99MHz	2664.99MHz			
QPSK	1	1	24.54	24.58	24.53	-0.10	24.52	33.00
	1	67	24.58	24.62	24.46			
	1	131	24.47	24.62	24.53			
	67	0	23.53	23.57	23.33			
	67	33	23.55	23.66	23.32			
	67	66	23.52	23.49	23.46			
	133	0	23.44	23.48	23.35			
16QAM	1	1	23.36	23.43	23.37	-0.10	23.33	33.00
64QAM	1	1	21.68	21.63	21.64	-0.10	21.58	33.00
256QAM	1	1	18.48	18.40	18.43	-0.10	18.38	33.00

NR Band n41 - SCS 30kHz - 60MHz Bandwidth - DFT-s-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			505200	518598	531996			
			2526.00MHz	2592.99MHz	2659.98MHz			
PI/2 BPSK	1	1	25.05	24.81	24.90	-0.10	24.95	33.00
	1	81	24.95	24.98	24.96			
	1	160	24.88	24.95	24.63			
	81	0	23.84	23.78	24.04			
	81	40	23.85	23.92	23.99			
	81	81	24.13	24.01	23.75			
	162	0	23.97	23.84	23.95			
QPSK	1	1	25.36	25.21	25.39	-0.10	25.43	33.00
	1	81	25.35	25.38	25.26			
	1	160	25.10	25.53	25.34			
	81	0	24.43	24.17	24.14			
	81	40	24.25	24.36	24.21			
	81	81	24.33	24.37	24.13			
	162	0	24.23	24.18	24.09			
16QAM	1	1	24.23	24.10	24.02	-0.10	24.13	33.00
64QAM	1	1	22.41	22.52	22.50	-0.10	22.42	33.00
256QAM	1	1	20.46	20.43	20.36	-0.10	20.36	33.00
NR Band n41 - SCS 30kHz - 60MHz Bandwidth - CP-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			505200	518598	531996			
			2526.00MHz	2592.99MHz	2659.98MHz			
QPSK	1	1	24.61	24.51	24.46	-0.10	24.92	33.00
	1	81	24.73	24.62	25.02			
	1	160	24.82	24.58	24.54			
	81	0	23.49	23.38	23.38			
	81	40	23.40	23.59	23.49			
	81	81	23.47	23.45	23.45			
	162	0	23.41	23.32	23.40			
16QAM	1	1	23.32	23.13	23.40	-0.10	23.30	33.00
64QAM	1	1	21.70	21.93	21.98	-0.10	21.88	33.00
256QAM	1	1	18.46	18.47	18.48	-0.10	18.38	33.00

NR Band n41 - SCS 30kHz - 80MHz Bandwidth - DFT-s-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			507204	518598	529998			
			2536.02MHz	2592.99MHz	2649.99MHz			
PI/2 BPSK	1	1	24.78	24.73	24.99	-0.10	24.99	33.00
	1	109	25.09	24.76	24.90			
	1	215	25.07	24.85	24.71			
	108	0	24.08	24.22	24.02			
	108	54	24.21	23.98	24.12			
	108	109	24.23	23.88	24.24			
	216	0	24.16	23.82	24.10			
QPSK	1	1	25.34	25.18	25.47	-0.10	25.37	33.00
	1	109	25.39	25.35	25.18			
	1	215	25.14	25.20	25.25			
	108	0	24.19	24.30	24.11			
	108	54	24.24	24.26	24.30			
	108	109	24.22	24.30	24.16			
	216	0	24.15	24.21	24.15			
16QAM	1	1	24.03	24.22	23.94	-0.10	24.12	33.00
64QAM	1	1	22.49	22.45	22.61	-0.10	22.51	33.00
256QAM	1	1	20.33	20.19	20.03	-0.10	20.23	33.00
NR Band n41 - SCS 30kHz - 80MHz Bandwidth - CP-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			507204	518598	529998			
			2536.02MHz	2592.99MHz	2649.99MHz			
QPSK	1	1	24.76	24.68	24.66	-0.10	24.66	33.00
	1	109	24.76	24.54	24.61			
	1	215	24.47	24.64	24.57			
	109	0	23.37	23.49	23.57			
	109	54	23.50	23.54	23.31			
	109	108	23.56	23.40	23.53			
	217	0	23.43	23.29	23.33			
16QAM	1	1	23.12	23.22	23.24	-0.10	23.14	33.00
64QAM	1	1	21.76	21.67	21.64	-0.10	21.66	33.00
256QAM	1	1	18.35	18.48	18.33	-0.10	18.38	33.00

NR Band n41 - SCS 30kHz - 90MHz Bandwidth - DFT-s-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			508200	518598	528996			
			2541.00MHz	2592.99MHz	2644.98MHz			
PI/2 BPSK	1	1	24.80	24.85	24.93	-0.10	25.11	33.00
	1	123	25.00	24.77	24.89			
	1	243	25.18	24.95	25.21			
	120	0	24.24	24.11	24.00			
	120	60	24.09	24.06	24.01			
	120	125	23.92	23.90	23.96			
	240	0	24.12	23.92	23.97			
QPSK	1	1	25.01	25.43	25.24	-0.10	25.38	33.00
	1	123	25.30	25.10	25.48			
	1	243	25.23	25.06	24.97			
	120	0	24.10	24.01	24.22			
	120	60	24.22	24.32	24.41			
	120	125	24.11	24.37	24.53			
	240	0	23.99	24.13	24.26			
16QAM	1	1	23.84	23.85	24.05	-0.10	23.95	33.00
64QAM	1	1	22.48	22.47	22.39	-0.10	22.38	33.00
256QAM	1	1	20.65	20.21	20.37	-0.10	20.55	33.00
NR Band n41 - SCS 30kHz - 90MHz Bandwidth - CP-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			508200	518598	528996			
			2541.00MHz	2592.99MHz	2644.98MHz			
QPSK	1	1	24.55	24.61	24.66	-0.10	24.63	33.00
	1	123	24.52	24.54	24.64			
	1	243	24.66	24.73	24.54			
	123	0	23.46	23.46	23.49			
	123	61	23.61	23.18	23.32			
	123	122	22.92	23.53	23.59			
	245	0	23.51	23.38	23.46			
16QAM	1	1	23.30	23.53	23.33	-0.10	23.43	33.00
64QAM	1	1	22.05	21.97	22.16	-0.10	22.06	33.00
256QAM	1	1	19.00	19.02	18.87	-0.10	18.92	33.00

NR Band n41 - SCS 30kHz - 100MHz Bandwidth - DFT-s-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			509202	518598	528000			
			2546.01MHz	2592.99MHz	2640.00MHz			
PI/2 BPSK	1	1	24.92	24.71	24.85	-0.10	24.99	33.00
	1	137	25.01	24.79	24.98			
	1	271	25.09	25.08	24.87			
	135	0	24.10	24.19	24.00			
	135	67	23.86	24.07	23.83			
	135	138	23.91	24.04	24.20			
	270	0	23.92	23.79	23.95			
QPSK	1	1	25.42	25.39	25.32	-0.10	25.38	33.00
	1	137	25.28	25.48	25.44			
	1	271	25.22	25.29	25.16			
	135	0	24.23	24.16	24.22			
	135	67	24.27	24.25	24.31			
	135	138	24.11	24.28	24.29			
	270	0	24.14	24.12	24.21			
16QAM	1	1	23.82	24.06	23.83	-0.10	23.96	33.00
64QAM	1	1	22.13	22.38	22.44	-0.10	22.34	33.00
256QAM	1	1	20.49	20.50	20.26	-0.10	20.40	33.00
NR Band n41 - SCS 30kHz - 100MHz Bandwidth - CP-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			509202	518598	528000			
			2546.01MHz	2592.99MHz	2640.00MHz			
QPSK	1	1	24.53	24.49	24.70	-0.10	24.60	33.00
	1	137	24.38	24.54	24.50			
	1	271	24.59	24.46	24.53			
	137	0	23.42	23.64	23.67			
	137	68	23.63	23.36	23.58			
	137	136	23.46	24.04	23.59			
	273	0	23.29	23.43	23.30			
16QAM	1	1	23.37	23.38	23.32	-0.10	23.28	33.00
64QAM	1	1	22.20	21.91	22.42	-0.10	22.32	33.00
256QAM	1	1	19.27	19.01	19.06	-0.10	19.17	33.00

NR Band N77 - Ant5:

NR Band n77 - SCS 30kHz - 20MHz Bandwidth - DFT-s-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			630668	633334	636000			
			3460.02MHz	3500.01MHz	3540.00MHz			
PI/2 BPSK	1	1	25.03	25.11	24.93	-4.10	21.11	30.00
	1	25	24.96	25.06	24.98			
	1	49	25.04	25.04	25.21			
	25	0	23.76	23.89	23.77			
	25	12	23.87	23.79	23.76			
	25	26	23.77	23.91	23.88			
	50	0	23.78	23.85	23.88			
QPSK	1	1	25.32	25.41	25.39	-4.10	21.34	30.00
	1	25	25.26	25.26	25.26			
	1	49	25.42	25.33	25.44			
	25	0	24.30	24.19	24.16			
	25	12	24.19	24.17	24.08			
	25	26	24.26	24.19	24.19			
	50	0	24.11	24.14	24.20			
16QAM	1	1	24.09	24.13	24.04	-4.10	20.03	30.00
64QAM	1	1	22.78	22.82	22.82	-4.10	18.72	30.00
256QAM	1	1	21.46	21.47	21.40	-4.10	17.37	30.00
NR Band n77 - SCS 30kHz - 20MHz Bandwidth - CP-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			630668	633334	636000			
			3460.02MHz	3500.01MHz	3540.00MHz			
QPSK	1	1	24.83	24.81	24.94	-4.10	20.89	30.00
	1	25	24.67	24.84	24.86			
	1	49	24.99	24.92	24.84			
	25	0	23.76	23.70	23.71			
	25	12	23.67	23.71	23.62			
	25	26	23.71	23.73	23.67			
	51	0	23.70	23.63	23.74			
16QAM	1	1	23.67	23.80	23.56	-4.10	19.70	30.00
64QAM	1	1	22.29	22.38	22.40	-4.10	18.30	30.00
256QAM	1	1	21.03	21.06	21.04	-4.10	16.96	30.00

NR Band n77 - SCS 30kHz - 30MHz Bandwidth - DFT-s-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			631000	633334	635666			
			3465.00MHz	3500.01MHz	3534.99MHz			
PI/2 BPSK	1	1	25.16	25.27	25.10	-4.10	21.17	30.00
	1	39	24.99	25.09	25.02			
	1	76	24.96	25.14	24.88			
	36	0	23.98	23.98	23.91			
	36	18	23.87	23.96	23.77			
	36	42	23.98	24.07	24.01			
	75	0	23.87	23.90	23.92			
QPSK	1	1	25.51	25.47	25.38	-4.10	21.41	30.00
	1	39	25.25	25.39	25.30			
	1	76	25.28	25.32	25.21			
	36	0	24.29	24.26	24.20			
	36	16	24.16	24.18	24.07			
	36	42	24.21	24.30	24.23			
	75	0	24.17	24.15	24.15			
16QAM	1	1	24.25	24.28	24.09	-4.10	20.18	30.00
64QAM	1	1	23.01	22.91	22.76	-4.10	18.91	30.00
256QAM	1	1	21.39	21.54	21.47	-4.10	17.44	30.00
NR Band n77 - SCS 30kHz - 30MHz Bandwidth - CP-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			631000	633334	635666			
			3465.00MHz	3500.01MHz	3534.99MHz			
QPSK	1	1	25.12	25.06	24.93	-4.10	21.05	30.00
	1	39	24.98	25.07	25.06			
	1	76	25.15	24.97	24.97			
	39	0	23.87	23.85	23.66			
	39	19	23.95	23.80	23.85			
	39	39	23.88	23.92	23.83			
	78	0	23.76	23.79	23.78			
16QAM	1	1	23.76	23.86	23.71	-4.10	19.76	30.00
64QAM	1	1	22.46	22.51	22.60	-4.10	18.50	30.00
256QAM	1	1	21.18	21.26	21.21	-4.10	17.16	30.00

NR Band n77 - SCS 30kHz - 40MHz Bandwidth - DFT-s-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			631334	633334	635332			
			3470.01MHz	3500.01MHz	3529.98MHz			
PI/2 BPSK	1	1	25.09	25.16	24.97	-4.10	21.13	30.00
	1	53	25.06	25.23	24.94			
	1	104	25.17	24.98	25.10			
	50	0	23.90	23.89	23.99			
	50	25	23.99	23.98	23.83			
	50	56	23.88	23.88	23.99			
	100	0	23.86	23.90	23.90			
QPSK	1	1	25.27	25.39	25.29	-4.10	21.38	30.00
	1	53	25.25	25.24	25.18			
	1	104	25.43	25.48	25.43			
	50	0	24.16	24.00	24.15			
	50	25	24.01	24.17	24.12			
	50	56	23.90	24.05	24.04			
	100	0	24.00	23.99	24.09			
16QAM	1	1	24.16	24.14	23.92	-4.10	20.06	30.00
64QAM	1	1	22.49	22.65	22.61	-4.10	18.55	30.00
256QAM	1	1	21.26	21.11	21.43	-4.10	17.33	30.00
NR Band n77 - SCS 30kHz - 40MHz Bandwidth - CP-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			631334	633334	635332			
			3470.01MHz	3500.01MHz	3529.98MHz			
QPSK	1	1	24.90	25.00	24.90	-4.10	20.96	30.00
	1	53	24.76	24.82	24.77			
	1	104	25.02	25.06	25.04			
	53	0	23.82	23.69	23.78			
	53	26	23.82	23.79	23.74			
	53	53	23.79	23.84	23.80			
	106	0	23.55	23.65	23.68			
16QAM	1	1	23.75	23.80	23.65	-4.10	19.70	30.00
64QAM	1	1	22.12	22.31	22.16	-4.10	18.21	30.00
256QAM	1	1	20.86	21.09	20.98	-4.10	16.99	30.00

NR Band n77 - SCS 30kHz - 50MHz Bandwidth - DFT-s-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			631668	633334	635000			
			3475.02MHz	3500.01MHz	3525.00MHz			
PI/2 BPSK	1	1	24.99	25.09	25.06	-4.10	20.99	30.00
	1	67	24.73	24.99	25.04			
	1	131	24.70	24.88	24.97			
	64	0	23.67	23.77	23.95			
	64	32	23.72	23.92	24.00			
	64	69	23.72	23.88	23.73			
	128	0	23.82	23.90	23.85			
QPSK	1	1	25.29	25.24	25.49	-4.10	21.39	30.00
	1	67	25.35	25.30	25.23			
	1	131	25.22	25.27	25.34			
	64	0	24.06	23.98	24.11			
	64	32	24.03	24.16	23.99			
	64	69	23.82	24.00	23.92			
	128	0	24.02	23.89	23.96			
16QAM	1	1	24.14	24.05	24.05	-4.10	20.04	30.00
64QAM	1	1	22.55	22.53	22.68	-4.10	18.58	30.00
256QAM	1	1	21.13	21.25	21.23	-4.10	17.15	30.00
NR Band n77 - SCS 30kHz - 50MHz Bandwidth - CP-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			631668	633334	635000			
			3475.02MHz	3500.01MHz	3525.00MHz			
QPSK	1	1	25.09	25.12	25.14	-4.10	21.04	30.00
	1	67	24.81	25.01	24.97			
	1	131	24.79	24.91	24.98			
	67	0	23.80	23.77	23.91			
	67	33	23.75	23.89	23.99			
	67	66	23.69	23.79	23.80			
	133	0	23.53	23.83	23.86			
16QAM	1	1	23.63	23.70	23.76	-4.10	19.66	30.00
64QAM	1	1	21.96	22.08	22.30	-4.10	18.20	30.00
256QAM	1	1	20.41	20.60	20.53	-4.10	16.50	30.00

NR Band n77 - SCS 30kHz - 60MHz Bandwidth - DFT-s-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			632000	633334	634666			
			3480.00MHz	3500.01MHz	3519.99MHz			
PI/2 BPSK	1	1	25.00	25.03	25.06	-4.10	21.12	30.00
	1	81	25.07	25.22	24.94			
	1	160	24.96	25.16	25.04			
	81	0	23.96	23.91	23.89			
	81	40	23.98	23.87	23.73			
	81	81	23.88	23.97	23.91			
	162	0	23.95	23.85	23.97			
QPSK	1	1	25.36	25.40	25.15	-4.10	21.39	30.00
	1	81	25.17	25.48	25.39			
	1	160	25.38	25.41	25.49			
	81	0	24.28	24.23	24.45			
	81	40	24.40	24.33	24.32			
	81	81	24.35	24.21	24.23			
	162	0	24.23	24.30	24.22			
16QAM	1	1	24.31	24.28	24.24	-4.10	20.21	30.00
64QAM	1	1	23.15	22.96	23.04	-4.10	19.05	30.00
256QAM	1	1	21.59	21.75	21.83	-4.10	17.73	30.00
NR Band n77 - SCS 30kHz - 60MHz Bandwidth - CP-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			632000	633334	634666			
			3480.00MHz	3500.01MHz	3519.99MHz			
QPSK	1	1	24.97	24.85	24.91	-4.10	20.91	30.00
	1	81	24.77	24.99	25.01			
	1	160	24.90	24.86	24.94			
	81	0	23.88	23.93	23.79			
	81	40	24.03	23.94	23.70			
	81	81	23.93	23.85	23.72			
	162	0	23.79	23.82	23.69			
16QAM	1	1	23.95	23.96	23.86	-4.10	19.86	30.00
64QAM	1	1	22.68	22.62	22.58	-4.10	18.58	30.00
256QAM	1	1	21.37	21.36	21.28	-4.10	17.27	30.00

NR Band n77 - SCS 30kHz - 80MHz Bandwidth - DFT-s-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			632668	633334	634000			
			3490.02MHz	3500.01MHz	3510.00MHz			
PI/2 BPSK	1	1	25.08	25.20	24.98	-4.10	21.10	30.00
	1	109	25.19	25.04	25.14			
	1	215	25.13	25.06	25.08			
	108	0	24.02	23.89	23.94			
	108	54	24.08	24.00	23.80			
	108	109	23.90	23.83	23.92			
	216	0	24.95	23.83	23.76			
QPSK	1	1	25.46	25.23	25.39	-4.10	21.42	30.00
	1	109	25.32	25.43	25.40			
	1	215	25.52	25.37	25.32			
	108	0	24.30	24.21	24.28			
	108	54	24.37	24.24	24.42			
	108	109	24.17	24.38	24.40			
	216	0	24.19	24.11	24.22			
16QAM	1	1	24.27	24.26	24.34	-4.10	20.24	30.00
64QAM	1	1	22.81	22.73	22.73	-4.10	18.71	30.00
256QAM	1	1	20.89	21.04	21.04	-4.10	16.94	30.00
NR Band n77 - SCS 30kHz - 80MHz Bandwidth - CP-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			632668	633334	634000			
			3490.02MHz	3500.01MHz	3510.00MHz			
QPSK	1	1	24.97	25.04	24.95	-4.10	20.97	30.00
	1	109	24.90	24.95	24.98			
	1	215	25.07	25.02	24.95			
	109	0	24.10	24.02	24.10			
	109	54	24.12	24.07	24.25			
	109	108	24.00	24.24	24.21			
	217	0	23.99	23.98	24.03			
16QAM	1	1	24.07	24.05	24.14	-4.10	20.04	30.00
64QAM	1	1	22.62	22.56	22.57	-4.10	18.52	30.00
256QAM	1	1	20.56	20.70	20.68	-4.10	16.60	30.00

NR Band n77 - SCS 30kHz - 90MHz Bandwidth - DFT-s-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			633000	633334	633666			
			3495.00MHz	3500.01MHz	3504.99MHz			
PI/2 BPSK	1	1	25.08	25.28	25.17	-4.10	21.29	30.00
	1	123	25.13	25.36	25.39			
	1	243	25.15	25.16	25.09			
	120	0	24.09	24.24	24.13			
	120	60	24.01	24.12	24.16			
	120	125	24.02	24.10	24.08			
	240	0	23.99	23.92	24.00			
QPSK	1	1	25.26	25.46	25.42	-4.10	21.41	30.00
	1	123	25.48	25.47	25.51			
	1	243	25.39	25.45	25.31			
	120	0	24.51	24.42	24.25			
	120	60	24.36	24.23	24.52			
	120	125	24.51	24.44	24.27			
	240	0	24.35	24.26	24.26			
16QAM	1	1	24.39	24.50	24.39	-4.10	20.40	30.00
64QAM	1	1	23.07	23.35	23.20	-4.10	19.25	30.00
256QAM	1	1	21.50	21.48	21.38	-4.10	17.40	30.00
NR Band n77 - SCS 30kHz - 90MHz Bandwidth - CP-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			633000	633334	633666			
			3495.00MHz	3500.01MHz	3504.99MHz			
QPSK	1	1	25.08	24.98	25.05	-4.10	21.19	30.00
	1	123	24.96	25.11	25.14			
	1	243	25.07	25.24	25.29			
	123	0	23.87	24.02	24.10			
	123	61	24.00	24.16	23.96			
	123	122	23.82	23.85	23.86			
	245	0	23.82	23.90	23.98			
16QAM	1	1	23.74	23.56	23.79	-4.10	19.69	30.00
64QAM	1	1	22.40	22.55	22.51	-4.10	18.45	30.00
256QAM	1	1	21.28	21.12	21.21	-4.10	17.18	30.00

NR Band n77 - SCS 30kHz - 100MHz Bandwidth - DFT-s-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			/	633334	/			
			/	3500.01MHz	/			
PI/2 BPSK	1	1	/	25.13	/	-4.10	21.26	30.00
	1	137	/	25.36	/			
	1	271	/	25.22	/			
	135	0	/	23.83	/			
	135	67	/	23.99	/			
	135	138	/	23.75	/			
	270	0	/	23.93	/			
QPSK	1	1	/	25.58	/	-4.10	21.48	30.00
	1	137	/	25.40	/			
	1	271	/	25.54	/			
	135	0	/	24.66	/			
	135	67	/	24.70	/			
	135	138	/	24.71	/			
	270	0	/	24.73	/			
16QAM	1	1	/	24.73	/	-4.10	20.63	30.00
64QAM	1	1	/	23.70	/	-4.10	19.60	30.00
256QAM	1	1	/	21.82	/	-4.10	17.72	30.00
NR Band n77 - SCS 30kHz - 100MHz Bandwidth - CP-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			/	633334	/			
			/	3500.01MHz	/			
QPSK	1	1	/	25.03	/	-4.10	21.07	30.00
	1	137	/	25.11	/			
	1	271	/	25.17	/			
	137	0	/	23.98	/			
	137	68	/	24.19	/			
	137	136	/	24.18	/			
	273	0	/	24.08	/			
16QAM	1	1	/	24.15	/	-4.10	20.05	30.00
64QAM	1	1	/	23.15	/	-4.10	19.05	30.00
256QAM	1	1	/	21.58	/	-4.10	17.48	30.00

NR Band N77 - Ant11:

NR Band n77 - SCS 30kHz - 20MHz Bandwidth - DFT-s-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			630668	633334	636000			
			3460.02MHz	3500.01MHz	3540.00MHz			
PI/2 BPSK	1	1	25.14	25.14	25.29	-2.00	23.29	30.00
	1	25	24.99	25.29	25.28			
	1	49	25.21	25.11	25.20			
	25	0	24.01	24.11	24.16			
	25	12	24.03	24.00	24.06			
	25	26	24.00	24.02	24.03			
	50	0	23.86	23.99	23.96			
QPSK	1	1	25.53	25.20	25.31	-2.00	23.59	30.00
	1	25	25.33	25.43	25.33			
	1	49	25.59	25.20	25.26			
	25	0	24.36	24.31	24.45			
	25	12	24.30	24.28	24.39			
	25	26	24.35	24.19	24.26			
	50	0	24.23	24.28	24.30			
16QAM	1	1	24.30	24.31	24.20	-2.00	22.31	30.00
64QAM	1	1	22.89	23.04	22.98	-2.00	21.04	30.00
256QAM	1	1	21.51	21.45	21.47	-2.00	19.51	30.00
NR Band n77 - SCS 30kHz - 20MHz Bandwidth - CP-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			630668	633334	636000			
			3460.02MHz	3500.01MHz	3540.00MHz			
QPSK	1	1	25.14	24.98	25.08	-2.00	23.22	30.00
	1	25	24.93	25.15	25.18			
	1	49	25.22	24.98	25.05			
	25	0	23.96	24.00	24.17			
	25	12	23.94	23.95	24.09			
	25	26	23.97	23.97	23.99			
	51	0	23.78	23.94	23.96			
16QAM	1	1	23.88	24.08	24.04	-2.00	22.08	30.00
64QAM	1	1	22.63	22.71	22.68	-2.00	20.71	30.00
256QAM	1	1	21.43	21.42	21.34	-2.00	19.43	30.00

NR Band n77 - SCS 30kHz - 30MHz Bandwidth - DFT-s-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			631000	633334	635666			
			3465.00MHz	3500.01MHz	3534.99MHz			
PI/2 BPSK	1	1	25.06	25.16	25.11	-2.00	23.28	30.00
	1	39	25.03	25.12	25.08			
	1	76	25.07	25.28	25.17			
	36	0	23.94	24.09	23.90			
	36	18	23.92	23.96	24.01			
	36	42	23.89	24.04	23.88			
	75	0	23.85	23.98	23.86			
QPSK	1	1	25.41	25.29	25.43	-2.00	23.50	30.00
	1	39	25.28	25.25	25.39			
	1	76	25.39	25.50	25.47			
	36	0	24.24	24.33	24.16			
	36	16	24.29	24.21	24.31			
	36	42	24.18	24.24	24.20			
	75	0	24.21	24.28	24.27			
16QAM	1	1	24.09	24.18	24.03	-2.00	22.18	30.00
64QAM	1	1	22.65	22.69	22.63	-2.00	20.69	30.00
256QAM	1	1	21.28	21.26	21.22	-2.00	19.28	30.00
NR Band n77 - SCS 30kHz - 30MHz Bandwidth - CP-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			631000	633334	635666			
			3465.00MHz	3500.01MHz	3534.99MHz			
QPSK	1	1	24.91	24.88	24.94	-2.00	23.03	30.00
	1	39	24.87	25.03	24.93			
	1	76	24.94	24.91	24.97			
	39	0	23.79	23.89	23.74			
	39	19	23.83	23.81	23.89			
	39	39	23.82	23.81	23.83			
	78	0	23.80	23.86	23.73			
16QAM	1	1	23.71	23.82	23.66	-2.00	21.82	30.00
64QAM	1	1	22.26	22.38	22.23	-2.00	20.38	30.00
256QAM	1	1	20.92	20.91	20.78	-2.00	18.92	30.00

NR Band n77 - SCS 30kHz - 40MHz Bandwidth - DFT-s-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			631334	633334	635332			
			3470.01MHz	3500.01MHz	3529.98MHz			
PI/2 BPSK	1	1	25.02	25.08	25.04	-2.00	23.22	30.00
	1	53	25.18	25.22	25.16			
	1	104	25.09	25.17	25.10			
	50	0	23.94	24.06	24.10			
	50	25	24.04	23.96	24.05			
	50	56	24.01	24.12	24.08			
	100	0	23.93	23.92	23.96			
QPSK	1	1	25.26	25.35	25.05	-2.00	23.54	30.00
	1	53	25.39	25.40	25.17			
	1	104	25.54	25.36	25.40			
	50	0	24.20	24.12	24.20			
	50	25	24.31	24.30	24.13			
	50	56	24.28	24.21	24.05			
	100	0	24.29	24.19	24.07			
16QAM	1	1	24.16	24.17	24.21	-2.00	22.21	30.00
64QAM	1	1	22.82	22.77	22.88	-2.00	20.88	30.00
256QAM	1	1	21.64	21.55	21.47	-2.00	19.64	30.00
NR Band n77 - SCS 30kHz - 40MHz Bandwidth - CP-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			631334	633334	635332			
			3470.01MHz	3500.01MHz	3529.98MHz			
QPSK	1	1	24.89	24.99	24.80	-2.00	23.19	30.00
	1	53	25.15	25.06	24.97			
	1	104	24.97	25.03	25.19			
	53	0	23.98	24.01	23.89			
	53	26	23.77	23.87	23.85			
	53	53	23.83	23.92	23.81			
	106	0	23.88	23.85	23.77			
16QAM	1	1	23.80	23.91	23.92	-2.00	21.92	30.00
64QAM	1	1	22.49	22.68	22.56	-2.00	20.68	30.00
256QAM	1	1	21.24	21.33	21.20	-2.00	19.33	30.00

NR Band n77 - SCS 30kHz - 50MHz Bandwidth - DFT-s-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			631668	633334	635000			
			3475.02MHz	3500.01MHz	3525.00MHz			
PI/2 BPSK	1	1	25.34	25.18	25.38	-2.00	23.38	30.00
	1	67	25.36	25.37	25.27			
	1	131	25.26	25.24	25.34			
	64	0	24.18	22.99	24.12			
	64	32	24.04	24.18	24.19			
	64	69	24.16	24.20	24.23			
	128	0	24.06	23.92	24.15			
QPSK	1	1	25.38	25.35	25.55	-2.00	23.55	30.00
	1	67	25.31	25.44	25.47			
	1	131	25.49	25.27	25.44			
	64	0	24.25	24.31	24.31			
	64	32	24.36	24.37	24.28			
	64	69	24.29	24.26	24.40			
	128	0	24.28	24.20	24.26			
16QAM	1	1	24.26	24.22	24.23	-2.00	22.26	30.00
64QAM	1	1	22.99	22.88	22.96	-2.00	20.99	30.00
256QAM	1	1	21.50	21.60	21.70	-2.00	19.70	30.00
NR Band n77 - SCS 30kHz - 50MHz Bandwidth - CP-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			631668	633334	635000			
			3475.02MHz	3500.01MHz	3525.00MHz			
QPSK	1	1	25.21	25.16	25.28	-2.00	23.34	30.00
	1	67	25.34	25.34	25.22			
	1	131	25.29	25.22	25.21			
	67	0	24.04	24.12	24.05			
	67	33	23.96	24.22	24.18			
	67	66	24.11	24.12	24.18			
	133	0	23.89	23.94	24.06			
16QAM	1	1	24.07	24.15	24.08	-2.00	22.15	30.00
64QAM	1	1	22.83	22.81	22.75	-2.00	20.83	30.00
256QAM	1	1	21.40	21.29	21.27	-2.00	19.40	30.00

NR Band n77 - SCS 30kHz - 60MHz Bandwidth - DFT-s-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			632000	633334	634666			
			3480.00MHz	3500.01MHz	3519.99MHz			
PI/2 BPSK	1	1	25.17	25.31	25.08	-2.00	23.31	30.00
	1	81	25.02	25.15	25.08			
	1	160	25.07	25.21	25.24			
	81	0	23.87	23.96	24.01			
	81	40	23.99	23.89	23.88			
	81	81	23.86	24.03	23.99			
	162	0	23.82	23.90	23.76			
QPSK	1	1	25.29	25.56	25.37	-2.00	23.56	30.00
	1	81	25.32	25.27	25.32			
	1	160	25.50	25.45	25.41			
	81	0	24.38	24.26	24.29			
	81	40	24.29	24.34	24.25			
	81	81	24.40	24.37	24.37			
	162	0	24.11	24.25	24.23			
16QAM	1	1	24.18	24.28	24.12	-2.00	22.28	30.00
64QAM	1	1	22.97	22.89	22.87	-2.00	20.97	30.00
256QAM	1	1	21.58	21.56	21.53	-2.00	19.58	30.00
NR Band n77 - SCS 30kHz - 60MHz Bandwidth - CP-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			632000	633334	634666			
			3480.00MHz	3500.01MHz	3519.99MHz			
QPSK	1	1	25.08	25.23	25.08	-2.00	23.23	30.00
	1	81	25.00	25.05	25.05			
	1	160	25.16	25.15	25.06			
	81	0	24.02	23.92	24.02			
	81	40	23.92	23.94	23.88			
	81	81	24.03	23.96	24.01			
	162	0	23.82	23.84	23.97			
16QAM	1	1	23.89	23.84	23.80	-2.00	21.89	30.00
64QAM	1	1	22.52	22.63	22.53	-2.00	20.63	30.00
256QAM	1	1	21.16	21.30	21.28	-2.00	19.30	30.00

NR Band n77 - SCS 30kHz - 80MHz Bandwidth - DFT-s-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			632668	633334	634000			
			3490.02MHz	3500.01MHz	3510.00MHz			
PI/2 BPSK	1	1	25.26	25.23	25.17	-2.00	23.35	30.00
	1	109	25.22	25.35	25.22			
	1	215	25.15	25.20	24.26			
	108	0	24.03	24.12	24.02			
	108	54	24.00	24.22	24.01			
	108	109	23.95	24.19	24.05			
	216	0	23.98	24.06	23.98			
QPSK	1	1	25.42	25.38	25.29	-2.00	23.45	30.00
	1	109	25.38	25.45	25.41			
	1	215	25.34	25.37	24.49			
	108	0	24.30	24.47	24.29			
	108	54	24.31	24.40	24.33			
	108	109	24.37	24.41	24.28			
	216	0	24.34	24.26	24.25			
16QAM	1	1	24.24	24.23	24.31	-2.00	22.31	30.00
64QAM	1	1	22.61	22.60	22.69	-2.00	20.69	30.00
256QAM	1	1	21.34	21.38	21.32	-2.00	19.38	30.00
NR Band n77 - SCS 30kHz - 80MHz Bandwidth - CP-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			632668	633334	634000			
			3490.02MHz	3500.01MHz	3510.00MHz			
QPSK	1	1	25.04	25.07	24.53	-2.00	23.19	30.00
	1	109	25.08	25.19	25.11			
	1	215	25.00	25.13	24.18			
	109	0	23.88	23.94	23.95			
	109	54	23.92	24.04	23.86			
	109	108	23.80	24.07	24.04			
	217	0	23.84	23.87	23.94			
16QAM	1	1	23.75	23.91	23.81	-2.00	21.91	30.00
64QAM	1	1	22.41	22.54	22.50	-2.00	20.54	30.00
256QAM	1	1	21.24	21.10	21.25	-2.00	19.25	30.00

NR Band n77 - SCS 30kHz - 90MHz Bandwidth - DFT-s-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			633000	633334	633666			
			3495.00MHz	3500.01MHz	3504.99MHz			
PI/2 BPSK	1	1	25.27	25.17	25.17	-2.00	23.30	30.00
	1	123	25.15	25.27	25.27			
	1	243	25.30	25.12	25.03			
	120	0	24.13	24.16	24.04			
	120	60	24.06	24.23	24.08			
	120	125	24.10	24.10	24.11			
	240	0	24.02	24.03	24.01			
QPSK	1	1	25.44	25.43	25.33	-2.00	23.51	30.00
	1	123	25.34	25.51	25.47			
	1	243	25.32	25.31	25.18			
	120	0	24.17	24.29	24.18			
	120	60	24.38	24.33	24.23			
	120	125	24.27	24.16	24.32			
	240	0	24.20	24.27	24.17			
16QAM	1	1	24.18	24.33	24.16	-2.00	22.33	30.00
64QAM	1	1	22.68	22.77	22.65	-2.00	20.77	30.00
256QAM	1	1	21.39	21.50	21.40	-2.00	19.50	30.00
NR Band n77 - SCS 30kHz - 90MHz Bandwidth - CP-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			633000	633334	633666			
			3495.00MHz	3500.01MHz	3504.99MHz			
QPSK	1	1	25.08	25.01	25.04	-2.00	23.19	30.00
	1	123	24.97	25.19	25.09			
	1	243	25.06	24.96	25.00			
	123	0	24.02	24.08	23.90			
	123	61	23.89	24.11	23.90			
	123	122	23.89	23.88	24.07			
	245	0	23.78	23.92	23.96			
16QAM	1	1	23.90	23.81	23.92	-2.00	21.92	30.00
64QAM	1	1	22.43	22.46	22.43	-2.00	20.46	30.00
256QAM	1	1	21.40	21.26	21.32	-2.00	19.40	30.00

NR Band n77 - SCS 30kHz - 100MHz Bandwidth - DFT-s-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			/	633334	/			
			/	3500.01MHz	/			
PI/2 BPSK	1	1	/	25.25	/	-2.00	23.33	30.00
	1	137	/	25.17	/			
	1	271	/	25.33	/			
	135	0	/	24.23	/			
	135	67	/	24.19	/			
	135	138	/	24.18	/			
	270	0	/	24.10	/			
QPSK	1	1	/	25.45	/	-2.00	23.45	30.00
	1	137	/	25.28	/			
	1	271	/	25.45	/			
	135	0	/	24.33	/			
	135	67	/	24.39	/			
	135	138	/	24.22	/			
	270	0	/	24.10	/			
16QAM	1	1	/	24.21	/	-2.00	22.21	30.00
64QAM	1	1	/	22.90	/	-2.00	20.90	30.00
256QAM	1	1	/	21.59	/	-2.00	19.59	30.00
NR Band n77 - SCS 30kHz - 100MHz Bandwidth - CP-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			/	633334	/			
			/	3500.01MHz	/			
QPSK	1	1	/	25.10	/	-2.00	23.23	30.00
	1	137	/	25.14	/			
	1	271	/	25.23	/			
	137	0	/	24.21	/			
	137	68	/	24.16	/			
	137	136	/	24.04	/			
	273	0	/	23.95	/			
16QAM	1	1	/	23.95	/	-2.00	21.95	30.00
64QAM	1	1	/	22.73	/	-2.00	20.73	30.00
256QAM	1	1	/	21.37	/	-2.00	19.37	30.00

NR Band N78 - Ant5:

NR Band n78 - SCS 30kHz - 20MHz Bandwidth - DFT-s-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			630668	633334	636000			
			3460.02MHz	3500.01MHz	3540.00MHz			
PI/2 BPSK	1	1	25.35	25.27	25.25	-4.10	21.35	30.00
	1	25	25.40	25.45	25.32			
	1	49	25.22	25.32	25.28			
	25	0	24.31	24.29	24.20			
	25	12	24.38	24.20	24.24			
	25	26	24.43	24.30	24.42			
	50	0	24.33	24.17	24.22			
QPSK	1	1	25.54	25.48	25.50	-4.10	21.49	30.00
	1	25	25.59	25.57	25.50			
	1	49	25.47	25.42	25.39			
	25	0	24.46	24.45	24.54			
	25	12	24.58	24.47	24.37			
	25	26	24.62	24.44	24.46			
	50	0	24.44	24.41	24.36			
16QAM	1	1	24.43	24.38	24.32	-4.10	20.33	30.00
64QAM	1	1	23.21	23.07	23.07	-4.10	19.11	30.00
256QAM	1	1	22.11	22.03	21.91	-4.10	18.01	30.00
NR Band n78 - SCS 30kHz - 20MHz Bandwidth - CP-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			630668	633334	636000			
			3460.02MHz	3500.01MHz	3540.00MHz			
QPSK	1	1	24.99	24.91	24.98	-4.10	20.95	30.00
	1	25	25.05	24.89	24.91			
	1	49	24.85	24.98	24.88			
	25	0	23.84	23.79	23.77			
	25	12	23.96	23.93	23.79			
	25	26	23.90	23.85	23.87			
	51	0	23.75	23.79	23.75			
16QAM	1	1	23.67	23.71	23.72	-4.10	19.62	30.00
64QAM	1	1	22.25	22.18	22.32	-4.10	18.22	30.00
256QAM	1	1	21.36	21.34	21.43	-4.10	17.33	30.00

NR Band n78 - SCS 30kHz - 30MHz Bandwidth - DFT-s-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			631000	633334	635666			
			3465.00MHz	3500.01MHz	3534.99MHz			
PI/2 BPSK	1	1	25.23	25.30	25.26	-4.10	21.26	30.00
	1	39	25.24	25.35	25.30			
	1	76	25.36	25.27	25.26			
	36	0	24.33	24.28	24.38			
	36	18	24.29	24.36	24.31			
	36	42	24.25	24.26	24.25			
	75	0	24.27	24.26	24.15			
QPSK	1	1	25.41	25.50	25.41	-4.10	21.49	30.00
	1	39	25.52	25.42	25.59			
	1	76	25.39	25.48	25.50			
	36	0	24.42	24.50	24.46			
	36	16	24.41	24.41	24.43			
	36	42	24.52	24.42	24.40			
	75	0	24.33	24.37	24.43			
16QAM	1	1	24.28	24.19	24.25	-4.10	20.18	30.00
64QAM	1	1	23.20	23.08	23.07	-4.10	19.10	30.00
256QAM	1	1	22.07	22.05	21.97	-4.10	17.97	30.00
NR Band n78 - SCS 30kHz - 30MHz Bandwidth - CP-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			631000	633334	635666			
			3465.00MHz	3500.01MHz	3534.99MHz			
QPSK	1	1	24.86	24.80	24.78	-4.10	20.92	30.00
	1	39	24.90	25.02	24.85			
	1	76	24.78	24.90	24.94			
	39	0	23.79	23.84	23.88			
	39	19	23.89	23.72	23.82			
	39	39	23.94	23.90	23.97			
	78	0	23.71	23.67	23.77			
16QAM	1	1	23.68	23.67	23.68	-4.10	19.58	30.00
64QAM	1	1	22.17	22.21	22.19	-4.10	18.11	30.00
256QAM	1	1	21.28	21.25	21.22	-4.10	17.18	30.00

NR Band n78 - SCS 30kHz - 40MHz Bandwidth - DFT-s-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			631334	633334	635332			
			3470.01MHz	3500.01MHz	3529.98MHz			
PI/2 BPSK	1	1	25.25	25.36	25.34	-4.10	21.26	30.00
	1	53	25.36	25.17	25.32			
	1	104	25.30	25.22	25.24			
	50	0	24.30	24.21	24.19			
	50	25	24.30	24.25	24.13			
	50	56	24.38	24.32	25.28			
	100	0	24.24	24.13	24.16			
QPSK	1	1	25.49	25.52	25.35	-4.10	21.49	30.00
	1	53	25.54	25.39	25.59			
	1	104	25.56	25.53	25.50			
	50	0	24.48	24.59	24.40			
	50	25	24.47	24.49	24.53			
	50	56	24.55	24.63	24.46			
	100	0	24.44	24.45	24.39			
16QAM	1	1	24.30	24.25	24.23	-4.10	20.20	30.00
64QAM	1	1	23.16	23.11	23.17	-4.10	19.07	30.00
256QAM	1	1	22.04	22.08	21.92	-4.10	17.98	30.00
NR Band n78 - SCS 30kHz - 40MHz Bandwidth - CP-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			631334	633334	635332			
			3470.01MHz	3500.01MHz	3529.98MHz			
QPSK	1	1	24.83	24.92	24.97	-4.10	20.94	30.00
	1	53	24.81	24.84	24.87			
	1	104	24.97	24.94	25.04			
	53	0	23.77	23.89	23.86			
	53	26	23.86	23.73	23.84			
	53	53	23.83	23.85	23.94			
	106	0	23.78	23.65	23.78			
16QAM	1	1	23.70	23.67	23.69	-4.10	19.60	30.00
64QAM	1	1	22.23	22.16	22.31	-4.10	18.21	30.00
256QAM	1	1	21.38	21.40	21.23	-4.10	17.30	30.00

NR Band n78 - SCS 30kHz - 50MHz Bandwidth - DFT-s-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			631668	633334	635000			
			3475.02MHz	3500.01MHz	3525.00MHz			
PI/2 BPSK	1	1	25.32	25.27	25.08	-4.10	21.25	30.00
	1	67	25.30	25.33	25.28			
	1	131	25.35	25.15	25.34			
	64	0	24.31	24.21	24.34			
	64	32	24.19	24.17	24.24			
	64	69	24.42	24.20	24.25			
	128	0	24.20	24.26	24.34			
QPSK	1	1	25.51	25.40	25.59	-4.10	21.49	30.00
	1	67	25.45	25.52	25.38			
	1	131	25.30	25.32	25.31			
	64	0	24.67	24.51	24.61			
	64	32	24.44	24.39	24.32			
	64	69	24.58	24.55	24.65			
	128	0	24.69	24.43	24.46			
16QAM	1	1	24.57	24.54	24.49	-4.10	20.47	30.00
64QAM	1	1	23.18	22.96	23.16	-4.10	19.08	30.00
256QAM	1	1	22.06	22.13	22.09	-4.10	18.03	30.00
NR Band n78 - SCS 30kHz - 50MHz Bandwidth - CP-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			631668	633334	635000			
			3475.02MHz	3500.01MHz	3525.00MHz			
QPSK	1	1	25.08	24.87	24.88	-4.10	20.99	30.00
	1	67	25.00	25.04	25.09			
	1	131	24.64	24.82	24.88			
	67	0	23.95	23.77	23.89			
	67	33	24.01	23.70	23.77			
	67	66	23.75	23.76	23.70			
	133	0	23.99	23.95	23.79			
16QAM	1	1	23.60	23.47	23.80	-4.10	19.70	30.00
64QAM	1	1	22.19	22.24	22.25	-4.10	18.15	30.00
256QAM	1	1	21.64	21.46	21.54	-4.10	17.54	30.00

NR Band n78 - SCS 30kHz - 60MHz Bandwidth - DFT-s-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			632000	633334	634666			
			3480.00MHz	3500.01MHz	3519.99MHz			
PI/2 BPSK	1	1	25.28	25.48	25.23	-4.10	21.38	30.00
	1	81	25.42	25.40	25.30			
	1	160	25.28	25.38	25.19			
	81	0	24.45	24.20	24.13			
	81	40	24.36	24.47	24.12			
	81	81	24.63	24.04	24.35			
	162	0	24.42	24.11	24.00			
QPSK	1	1	25.40	25.58	25.55	-4.10	21.48	30.00
	1	81	25.58	25.36	25.45			
	1	160	25.54	25.33	25.39			
	81	0	24.47	24.33	24.57			
	81	40	24.70	24.44	24.45			
	81	81	24.49	24.37	24.65			
	162	0	24.44	24.45	24.24			
16QAM	1	1	24.24	24.40	24.26	-4.10	20.30	30.00
64QAM	1	1	23.02	23.23	22.94	-4.10	19.13	30.00
256QAM	1	1	22.24	22.14	21.95	-4.10	18.14	30.00
NR Band n78 - SCS 30kHz - 60MHz Bandwidth - CP-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			632000	633334	634666			
			3480.00MHz	3500.01MHz	3519.99MHz			
QPSK	1	1	25.07	24.74	25.01	-4.10	20.99	30.00
	1	81	25.09	24.98	25.00			
	1	160	24.86	25.00	24.71			
	81	0	23.85	23.72	23.87			
	81	40	23.98	23.76	24.04			
	81	81	23.87	24.02	23.64			
	162	0	23.65	23.82	24.00			
16QAM	1	1	23.60	23.74	23.92	-4.10	19.82	30.00
64QAM	1	1	22.28	22.31	22.17	-4.10	18.21	30.00
256QAM	1	1	21.33	21.53	21.24	-4.10	17.43	30.00

NR Band n78 - SCS 30kHz - 80MHz Bandwidth - DFT-s-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			632668	633334	634000			
			3490.02MHz	3500.01MHz	3510.00MHz			
PI/2 BPSK	1	1	25.44	25.32	25.39	-4.10	21.34	30.00
	1	109	25.42	25.33	25.44			
	1	215	25.14	25.17	25.28			
	108	0	24.45	24.35	24.36			
	108	54	24.33	24.04	24.38			
	108	109	24.48	24.36	24.44			
	216	0	24.18	24.23	24.39			
QPSK	1	1	25.50	25.21	25.36	-4.10	21.46	30.00
	1	109	25.53	25.50	25.47			
	1	215	25.43	25.56	25.31			
	108	0	24.41	24.33	24.59			
	108	54	24.46	24.63	24.54			
	108	109	24.42	24.40	24.38			
	216	0	24.51	24.47	24.40			
16QAM	1	1	24.51	24.45	24.41	-4.10	20.41	30.00
64QAM	1	1	23.03	23.01	23.12	-4.10	19.02	30.00
256QAM	1	1	22.15	22.20	22.15	-4.10	18.10	30.00
NR Band n78 - SCS 30kHz - 80MHz Bandwidth - CP-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			632668	633334	634000			
			3490.02MHz	3500.01MHz	3510.00MHz			
QPSK	1	1	24.82	24.91	25.02	-4.10	20.96	30.00
	1	109	24.93	24.96	25.06			
	1	215	24.72	24.80	24.72			
	109	0	24.01	23.73	23.86			
	109	54	23.86	23.96	23.96			
	109	108	24.05	23.78	23.71			
	217	0	24.00	23.82	23.83			
16QAM	1	1	23.85	23.71	23.64	-4.10	19.75	30.00
64QAM	1	1	22.22	22.36	22.45	-4.10	18.35	30.00
256QAM	1	1	21.56	21.15	21.59	-4.10	17.49	30.00

NR Band n78 - SCS 30kHz - 90MHz Bandwidth - DFT-s-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			633000	633334	633666			
			3495.00MHz	3500.01MHz	3504.99MHz			
PI/2 BPSK	1	1	25.17	25.27	25.12	-4.10	21.26	30.00
	1	123	25.28	25.36	25.35			
	1	243	25.08	25.35	25.30			
	120	0	24.51	24.33	24.14			
	120	60	24.46	24.41	24.18			
	120	125	24.85	24.04	24.35			
	240	0	24.30	23.99	24.02			
QPSK	1	1	25.35	25.48	25.54	-4.10	21.45	30.00
	1	123	25.49	25.19	25.55			
	1	243	25.39	25.50	25.32			
	120	0	24.21	24.47	24.54			
	120	60	24.52	24.46	24.32			
	120	125	24.53	24.47	24.52			
	240	0	24.64	24.23	24.17			
16QAM	1	1	24.22	24.33	24.31	-4.10	20.23	30.00
64QAM	1	1	22.81	23.25	23.11	-4.10	19.15	30.00
256QAM	1	1	22.36	21.95	22.07	-4.10	18.26	30.00
NR Band n78 - SCS 30kHz - 90MHz Bandwidth - CP-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			633000	633334	633666			
			3495.00MHz	3500.01MHz	3504.99MHz			
QPSK	1	1	24.84	25.08	25.00	-4.10	20.98	30.00
	1	123	25.04	25.00	24.96			
	1	243	24.78	24.84	25.01			
	123	0	24.01	23.66	24.00			
	123	61	23.86	23.97	23.86			
	123	122	23.81	24.05	23.70			
	245	0	23.65	23.85	23.80			
16QAM	1	1	23.90	23.51	23.70	-4.10	19.80	30.00
64QAM	1	1	22.31	22.06	22.36	-4.10	18.26	30.00
256QAM	1	1	21.23	21.21	21.51	-4.10	17.41	30.00

NR Band n78 - SCS 30kHz - 100MHz Bandwidth - DFT-s-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			/	633334	/			
			/	3500.01MHz	/			
PI/2 BPSK	1	1	/	25.27	/	-4.10	21.26	30.00
	1	137	/	25.36	/			
	1	271	/	25.35	/			
	135	0	/	24.33	/			
	135	67	/	24.41	/			
	135	138	/	24.04	/			
	270	0	/	23.99	/			
QPSK	1	1	/	25.48	/	-4.10	21.40	30.00
	1	137	/	25.29	/			
	1	271	/	25.50	/			
	135	0	/	24.47	/			
	135	67	/	24.46	/			
	135	138	/	24.47	/			
	270	0	/	24.23	/			
16QAM	1	1	/	24.33	/	-4.10	20.23	30.00
64QAM	1	1	/	23.25	/	-4.10	19.15	30.00
256QAM	1	1	/	21.95	/	-4.10	17.85	30.00
NR Band n78 - SCS 30kHz - 100MHz Bandwidth - CP-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			/	633334	/			
			/	3500.01MHz	/			
QPSK	1	1	/	25.08	/	-4.10	20.98	30.00
	1	137	/	25.00	/			
	1	271	/	24.84	/			
	137	0	/	23.66	/			
	137	68	/	23.97	/			
	137	136	/	24.05	/			
	273	0	/	23.85	/			
16QAM	1	1	/	23.51	/	-4.10	19.41	30.00
64QAM	1	1	/	22.06	/	-4.10	17.96	30.00
256QAM	1	1	/	21.21	/	-4.10	17.11	30.00

NR Band N78 - Ant11:

NR Band n78 - SCS 30kHz - 20MHz Bandwidth - DFT-s-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			630668	633334	636000			
			3460.02MHz	3500.01MHz	3540.00MHz			
PI/2 BPSK	1	1	25.20	25.32	25.43	-2.00	23.43	30.00
	1	25	25.28	25.11	25.14			
	1	49	25.20	25.08	25.23			
	25	0	24.15	23.94	23.99			
	25	12	24.02	23.92	24.10			
	25	26	24.11	24.12	23.98			
	50	0	23.84	23.83	23.95			
QPSK	1	1	25.52	25.39	25.30	-2.00	23.57	30.00
	1	25	25.33	25.33	25.45			
	1	49	25.57	25.32	25.44			
	25	0	24.44	24.49	24.63			
	25	12	24.51	24.46	24.54			
	25	26	24.68	24.56	24.35			
	50	0	24.58	24.51	24.38			
16QAM	1	1	24.44	24.47	24.27	-2.00	22.47	30.00
64QAM	1	1	23.24	23.20	23.15	-2.00	21.24	30.00
256QAM	1	1	22.10	21.93	22.01	-2.00	20.10	30.00
NR Band n78 - SCS 30kHz - 20MHz Bandwidth - CP-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			630668	633334	636000			
			3460.02MHz	3500.01MHz	3540.00MHz			
QPSK	1	1	24.92	24.87	25.02	-2.00	23.08	30.00
	1	25	24.73	24.92	24.80			
	1	49	25.08	24.87	25.02			
	25	0	23.75	23.86	23.68			
	25	12	23.85	23.75	23.86			
	25	26	23.72	23.69	23.80			
	51	0	23.68	23.68	23.60			
16QAM	1	1	23.62	23.64	23.58	-2.00	21.64	30.00
64QAM	1	1	22.43	22.46	22.39	-2.00	20.46	30.00
256QAM	1	1	21.23	21.27	21.21	-2.00	19.27	30.00

NR Band n78 - SCS 30kHz - 30MHz Bandwidth - DFT-s-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			631000	633334	635666			
			3465.00MHz	3500.01MHz	3534.99MHz			
PI/2 BPSK	1	1	25.17	25.41	25.38	-2.00	23.41	30.00
	1	39	25.02	25.25	25.18			
	1	76	25.12	25.02	25.21			
	36	0	24.26	23.91	23.88			
	36	18	23.90	23.94	23.89			
	36	42	24.01	23.84	24.10			
	75	0	23.79	23.83	23.97			
QPSK	1	1	25.29	25.23	25.23	-2.00	23.57	30.00
	1	39	25.43	25.57	25.31			
	1	76	25.57	25.32	25.44			
	36	0	24.40	24.29	24.47			
	36	16	24.37	24.31	24.75			
	36	42	24.64	24.72	24.28			
	75	0	24.67	24.57	24.42			
16QAM	1	1	24.53	24.42	24.31	-2.00	22.53	30.00
64QAM	1	1	23.43	23.09	23.05	-2.00	21.43	30.00
256QAM	1	1	22.03	21.96	21.91	-2.00	20.03	30.00
NR Band n78 - SCS 30kHz - 30MHz Bandwidth - CP-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			631000	633334	635666			
			3465.00MHz	3500.01MHz	3534.99MHz			
QPSK	1	1	25.13	24.96	25.09	-2.00	23.13	30.00
	1	39	24.79	24.79	24.90			
	1	76	25.03	24.67	24.97			
	39	0	23.91	23.98	23.55			
	39	19	24.01	23.95	23.81			
	39	39	23.66	23.66	23.93			
	78	0	23.64	23.67	23.58			
16QAM	1	1	23.59	23.54	23.45	-2.00	21.59	30.00
64QAM	1	1	22.56	22.35	22.39	-2.00	20.56	30.00
256QAM	1	1	21.23	21.25	21.18	-2.00	19.25	30.00

NR Band n78 - SCS 30kHz - 40MHz Bandwidth - DFT-s-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			631334	633334	635332			
			3470.01MHz	3500.01MHz	3529.98MHz			
PI/2 BPSK	1	1	24.97	25.42	25.31	-2.00	23.42	30.00
	1	53	25.08	25.07	25.05			
	1	104	25.09	25.04	25.22			
	50	0	24.21	24.10	23.88			
	50	25	23.76	24.04	23.88			
	50	56	24.18	23.77	24.34			
	100	0	23.84	23.92	24.16			
QPSK	1	1	25.43	25.07	25.28	-2.00	23.55	30.00
	1	53	25.55	25.42	25.20			
	1	104	25.42	25.35	25.45			
	50	0	24.30	24.40	24.27			
	50	25	24.21	24.18	24.70			
	50	56	24.60	24.69	24.34			
	100	0	24.61	24.50	24.21			
16QAM	1	1	24.71	24.34	24.41	-2.00	22.71	30.00
64QAM	1	1	23.35	23.16	22.83	-2.00	21.35	30.00
256QAM	1	1	22.02	21.97	21.94	-2.00	20.02	30.00
NR Band n78 - SCS 30kHz - 40MHz Bandwidth - CP-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			631334	633334	635332			
			3470.01MHz	3500.01MHz	3529.98MHz			
QPSK	1	1	25.00	24.96	25.13	-2.00	23.13	30.00
	1	53	24.95	24.71	24.69			
	1	104	25.00	24.48	24.86			
	53	0	23.98	24.21	23.64			
	53	26	23.86	23.77	23.68			
	53	53	23.56	23.67	24.00			
	106	0	23.70	23.71	23.55			
16QAM	1	1	23.76	23.53	23.40	-2.00	21.76	30.00
64QAM	1	1	22.40	22.37	22.54	-2.00	20.54	30.00
256QAM	1	1	21.39	21.25	21.28	-2.00	19.39	30.00

NR Band n78 - SCS 30kHz - 50MHz Bandwidth - DFT-s-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			631668	633334	635000			
			3475.02MHz	3500.01MHz	3525.00MHz			
PI/2 BPSK	1	1	24.97	25.38	25.36	-2.00	23.38	30.00
	1	67	25.10	25.06	25.01			
	1	131	25.06	25.06	25.25			
	64	0	24.20	24.02	23.88			
	64	32	23.76	24.06	23.93			
	64	69	24.18	23.78	24.29			
	128	0	23.81	23.88	24.14			
QPSK	1	1	25.42	25.10	25.27	-2.00	23.50	30.00
	1	67	25.50	25.42	25.20			
	1	131	25.36	25.44	25.48			
	64	0	24.23	24.44	24.27			
	64	32	24.24	24.13	24.78			
	64	69	24.63	24.61	24.31			
	128	0	24.64	24.52	24.26			
16QAM	1	1	24.70	24.35	24.43	-2.00	22.70	30.00
64QAM	1	1	23.35	23.14	22.82	-2.00	21.35	30.00
256QAM	1	1	22.06	21.89	21.94	-2.00	20.06	30.00
NR Band n78 - SCS 30kHz - 50MHz Bandwidth - CP-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			631668	633334	635000			
			3475.02MHz	3500.01MHz	3525.00MHz			
QPSK	1	1	25.00	24.96	25.13	-2.00	23.13	30.00
	1	67	24.95	24.71	24.69			
	1	131	25.00	24.48	24.86			
	67	0	23.98	24.21	23.64			
	67	33	23.86	23.77	23.68			
	67	66	23.56	23.67	24.00			
	133	0	23.70	23.71	23.55			
16QAM	1	1	23.76	23.53	23.40	-2.00	21.76	30.00
64QAM	1	1	22.40	22.37	22.54	-2.00	20.54	30.00
256QAM	1	1	21.39	21.25	21.28	-2.00	19.39	30.00

NR Band n78 - SCS 30kHz - 60MHz Bandwidth - DFT-s-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			632000	633334	634666			
			3480.00MHz	3500.01MHz	3519.99MHz			
PI/2 BPSK	1	1	25.09	25.35	25.24	-2.00	23.44	30.00
	1	81	24.91	25.20	25.06			
	1	160	25.18	25.05	25.44			
	81	0	24.32	23.94	23.78			
	81	40	23.83	23.81	23.96			
	81	81	23.84	23.82	24.07			
	162	0	23.79	23.97	23.86			
QPSK	1	1	25.10	25.32	25.42	-2.00	23.57	30.00
	1	81	25.49	25.49	25.31			
	1	160	25.57	25.41	25.56			
	81	0	24.42	24.20	24.39			
	81	40	24.52	24.16	24.88			
	81	81	24.73	24.55	24.38			
	162	0	24.70	24.65	24.26			
16QAM	1	1	24.50	24.36	24.38	-2.00	22.50	30.00
64QAM	1	1	23.55	23.04	23.20	-2.00	21.55	30.00
256QAM	1	1	21.96	21.83	21.77	-2.00	19.96	30.00
NR Band n78 - SCS 30kHz - 60MHz Bandwidth - CP-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			632000	633334	634666			
			3480.00MHz	3500.01MHz	3519.99MHz			
QPSK	1	1	24.96	24.81	24.83	-2.00	23.11	30.00
	1	81	24.83	24.65	25.11			
	1	160	24.97	24.92	24.81			
	81	0	23.95	23.94	23.37			
	81	40	24.09	24.08	24.07			
	81	81	23.57	23.79	24.18			
	162	0	23.57	23.76	23.68			
16QAM	1	1	23.72	23.46	23.55	-2.00	21.72	30.00
64QAM	1	1	22.70	22.23	22.55	-2.00	20.70	30.00
256QAM	1	1	21.44	21.10	21.35	-2.00	19.44	30.00

NR Band n78 - SCS 30kHz - 80MHz Bandwidth - DFT-s-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			632668	633334	634000			
			3490.02MHz	3500.01MHz	3510.00MHz			
PI/2 BPSK	1	1	25.24	25.23	25.30	-2.00	23.35	30.00
	1	109	25.25	24.94	25.11			
	1	215	25.13	25.35	25.35			
	108	0	24.12	24.02	23.64			
	108	54	23.99	23.69	24.07			
	108	109	24.00	24.23	23.76			
	216	0	24.41	23.69	23.53			
QPSK	1	1	25.32	25.59	25.35	-2.00	23.59	30.00
	1	109	25.31	25.08	25.53			
	1	215	25.35	25.37	25.31			
	108	0	24.27	24.27	24.81			
	108	54	24.68	24.10	24.46			
	108	109	24.70	24.47	24.65			
	216	0	24.82	24.29	24.26			
16QAM	1	1	24.17	24.31	24.09	-2.00	22.31	30.00
64QAM	1	1	22.96	23.28	23.29	-2.00	21.29	30.00
256QAM	1	1	21.86	21.84	21.87	-2.00	19.87	30.00
NR Band n78 - SCS 30kHz - 80MHz Bandwidth - CP-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			632668	633334	634000			
			3490.02MHz	3500.01MHz	3510.00MHz			
QPSK	1	1	25.05	24.59	25.16	-2.00	23.16	30.00
	1	109	24.72	24.50	24.74			
	1	215	25.13	24.84	24.93			
	109	0	23.96	23.55	23.57			
	109	54	23.66	23.52	24.26			
	109	108	23.77	23.72	23.92			
	217	0	23.79	23.53	23.29			
16QAM	1	1	23.46	23.88	23.71	-2.00	21.88	30.00
64QAM	1	1	22.13	22.87	22.56	-2.00	20.87	30.00
256QAM	1	1	21.21	21.32	21.03	-2.00	19.32	30.00

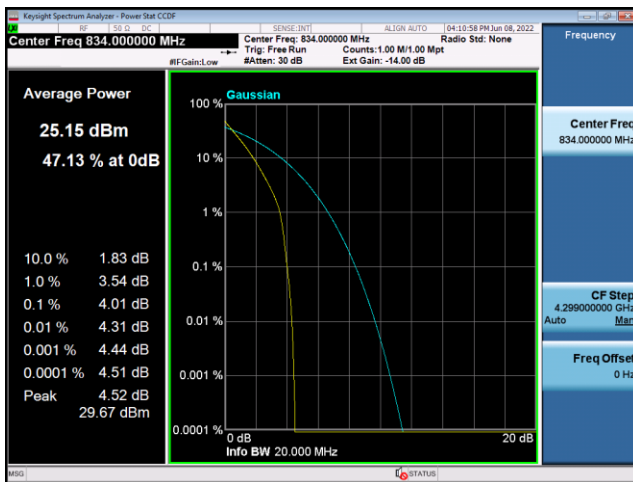
NR Band n78 - SCS 30kHz - 90MHz Bandwidth - DFT-s-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			633000	633334	633666			
			3495.00MHz	3500.01MHz	3504.99MHz			
PI/2 BPSK	1	1	25.00	25.34	25.23	-2.00	23.36	30.00
	1	123	25.36	24.87	24.98			
	1	243	25.23	25.19	25.20			
	120	0	23.96	24.03	23.81			
	120	60	24.13	23.57	23.93			
	120	125	23.91	24.10	23.70			
	240	0	24.18	23.84	23.53			
QPSK	1	1	25.52	25.46	25.24	-2.00	23.56	30.00
	1	123	25.22	25.28	25.49			
	1	243	25.56	25.35	25.20			
	120	0	24.04	24.26	24.73			
	120	60	24.69	24.11	24.61			
	120	125	24.84	24.59	24.46			
	240	0	24.86	24.21	24.36			
16QAM	1	1	24.30	24.22	24.19	-2.00	22.30	30.00
64QAM	1	1	23.13	23.35	23.33	-2.00	21.35	30.00
256QAM	1	1	21.98	21.94	21.89	-2.00	19.98	30.00
NR Band n78 - SCS 30kHz - 90MHz Bandwidth - CP-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			633000	633334	633666			
			3495.00MHz	3500.01MHz	3504.99MHz			
QPSK	1	1	25.16	24.60	25.10	-2.00	23.16	30.00
	1	123	24.71	24.58	24.83			
	1	243	25.10	24.86	24.74			
	123	0	23.79	23.63	23.43			
	123	61	23.62	23.62	24.10			
	123	122	23.73	23.67	24.10			
	245	0	23.91	23.66	23.50			
16QAM	1	1	23.51	23.70	23.57	-2.00	21.70	30.00
64QAM	1	1	22.12	22.69	22.39	-2.00	20.69	30.00
256QAM	1	1	21.40	21.31	21.16	-2.00	19.40	30.00

NR Band n78 - SCS 30kHz - 100MHz Bandwidth - DFT-s-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			/	633334	/			
			/	3500.01MHz	/			
PI/2 BPSK	1	1	/	25.28	/	-2.00	23.28	30.00
	1	137	/	25.20	/			
	1	271	/	25.14	/			
	135	0	/	23.94	/			
	135	67	/	23.76	/			
	135	138	/	24.24	/			
	270	0	/	24.07	/			
QPSK	1	1	/	25.42	/	-2.00	23.49	30.00
	1	137	/	25.27	/			
	1	271	/	25.49	/			
	135	0	/	24.29	/			
	135	67	/	24.61	/			
	135	138	/	24.42	/			
	270	0	/	24.17	/			
16QAM	1	1	/	24.52	/	-2.00	22.52	30.00
64QAM	1	1	/	22.99	/	-2.00	20.99	30.00
256QAM	1	1	/	22.09	/	-2.00	20.09	30.00
NR Band n78 - SCS 30kHz - 100MHz Bandwidth - CP-OFDM								
Modulation	RB Size	RB Offset	Maximum Average Power (dBm)			Ant. Gain (dBi)	Max. EIRP (dBm)	EIRP Limit (dBm)
			/	633334	/			
			/	3500.01MHz	/			
QPSK	1	1	/	24.88	/	-2.00	23.11	30.00
	1	137	/	24.91	/			
	1	271	/	25.11	/			
	137	0	/	23.80	/			
	137	68	/	23.95	/			
	137	136	/	23.41	/			
	273	0	/	23.91	/			
16QAM	1	1	/	23.75	/	-2.00	21.75	30.00
64QAM	1	1	/	22.33	/	-2.00	20.33	30.00
256QAM	1	1	/	21.54	/	-2.00	19.54	30.00

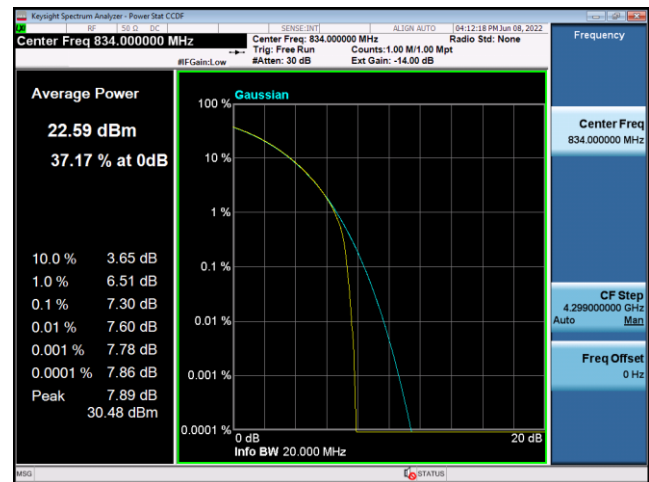
Peak To Average Ratio

NR Band	SCS (kHz)	Bandwidth (MHz)	Freq (MHz)	Modulation	RB Configuration	Result (dB)	Limit (dB)	Verdict
5	15	20	834.0	DFT-s-OFDM PI/2 BPSK	100@0	4.01	13	Pass
5	15	20	834.0	CP-OFDM QPSK	106@0	7.30	13	Pass
5	15	20	836.5	DFT-s-OFDM PI/2 BPSK	100@0	4.02	13	Pass
5	15	20	836.5	CP-OFDM QPSK	106@0	7.25	13	Pass
5	15	20	839.0	DFT-s-OFDM PI/2 BPSK	100@0	4.03	13	Pass
5	15	20	839.0	CP-OFDM QPSK	106@0	7.30	13	Pass
41	30	20	2506.02	DFT-s-OFDM PI/2 BPSK	50@0	4.30	13	Pass
41	30	20	2506.02	CP-OFDM QPSK	51@0	6.67	13	Pass
41	30	20	2592.99	DFT-s-OFDM PI/2 BPSK	50@0	4.68	13	Pass
41	30	20	2592.99	CP-OFDM QPSK	51@0	7.83	13	Pass
41	30	20	2679.99	DFT-s-OFDM PI/2 BPSK	50@0	4.49	13	Pass
41	30	20	2679.99	CP-OFDM QPSK	51@0	7.33	13	Pass
77	30	20	3460.02	DFT-s-OFDM PI/2 BPSK	50@0	3.91	13	Pass
77	30	20	3460.02	CP-OFDM QPSK	51@0	6.48	13	Pass
77	30	20	3500.01	DFT-s-OFDM PI/2 BPSK	50@0	4.03	13	Pass
77	30	20	3500.01	CP-OFDM QPSK	51@0	6.54	13	Pass
77	30	20	3540.00	DFT-s-OFDM PI/2 BPSK	50@0	4.02	13	Pass
77	30	20	3540.00	CP-OFDM QPSK	51@0	6.53	13	Pass
78	30	20	3460.02	DFT-s-OFDM PI/2 BPSK	50@0	3.96	13	Pass
78	30	20	3460.02	CP-OFDM QPSK	51@0	6.52	13	Pass
78	30	20	3500.01	DFT-s-OFDM PI/2 BPSK	50@0	4.03	13	Pass
78	30	20	3500.01	CP-OFDM QPSK	51@0	6.52	13	Pass
78	30	20	3540.00	DFT-s-OFDM PI/2 BPSK	50@0	4.05	13	Pass
78	30	20	3540.00	CP-OFDM QPSK	51@0	6.55	13	Pass

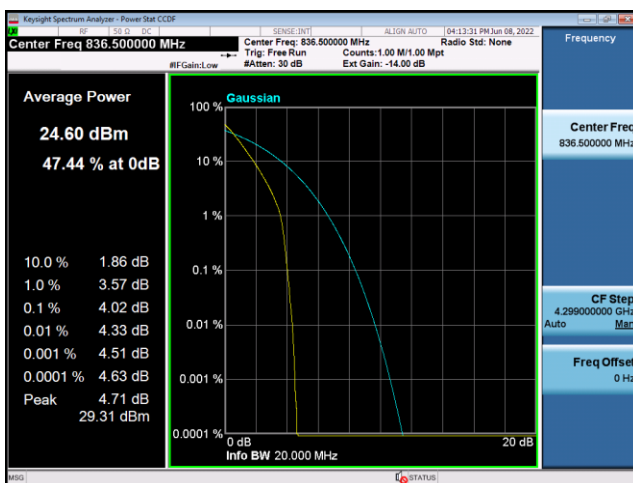
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Outer_Full_Low_CH



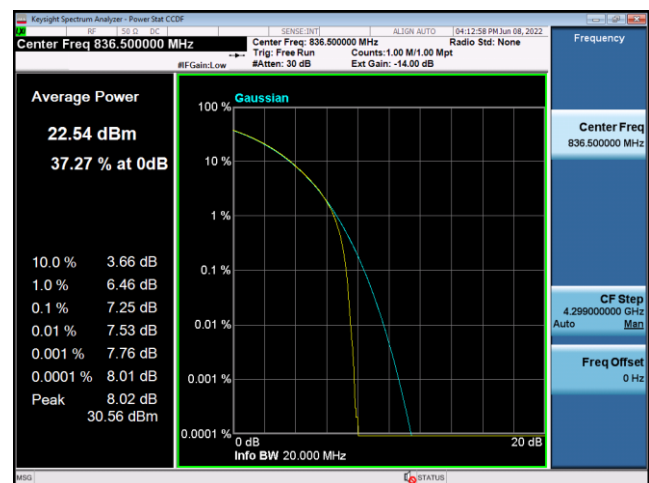
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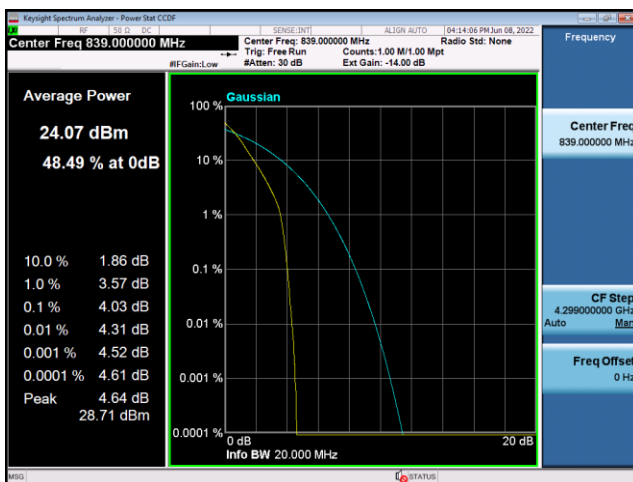
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Outer_Full_Mid_CH



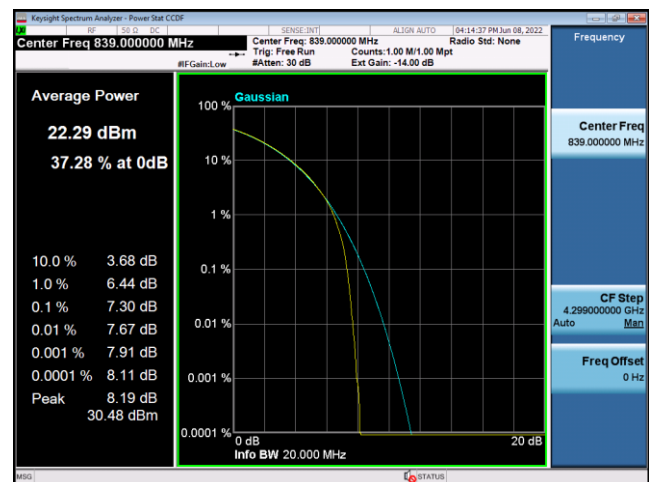
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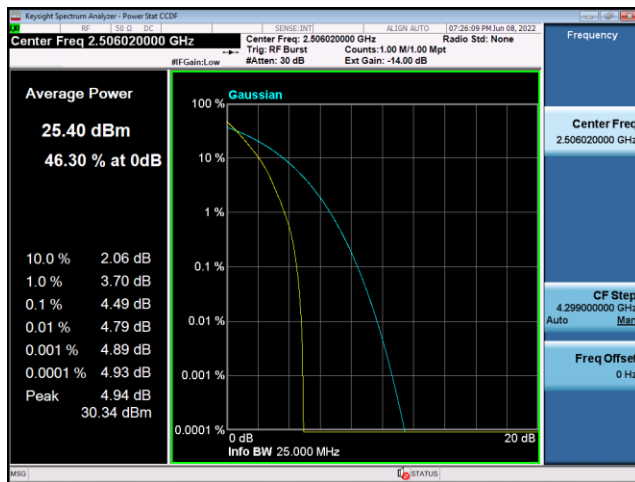
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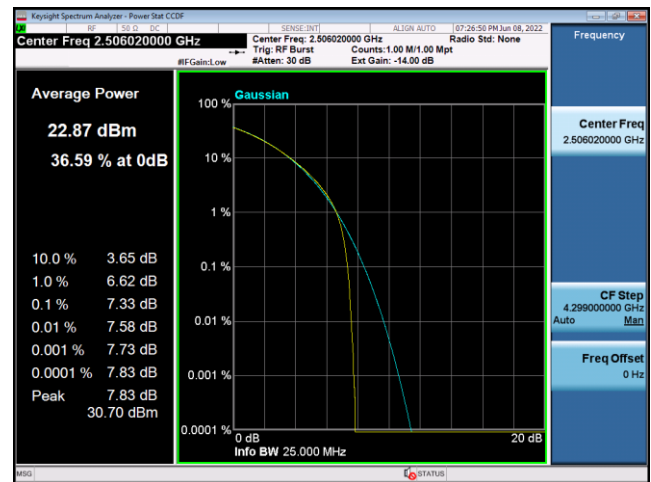
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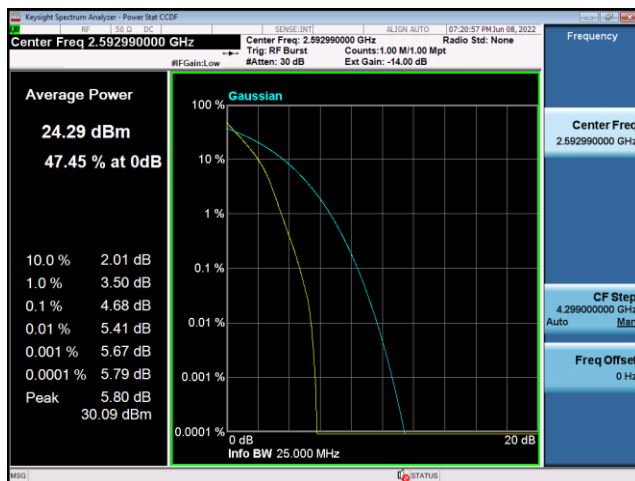
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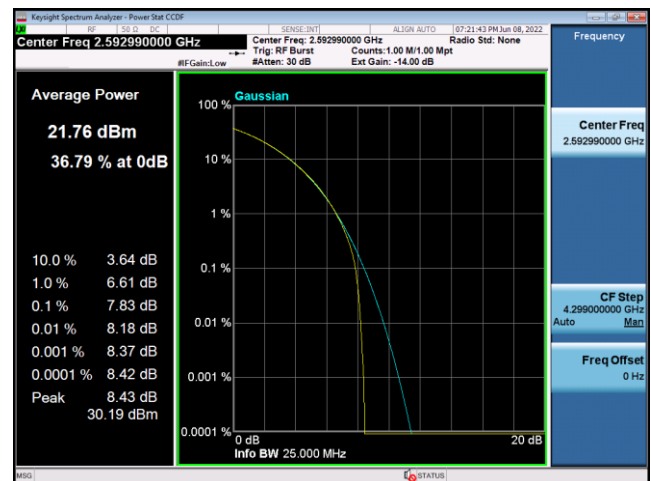
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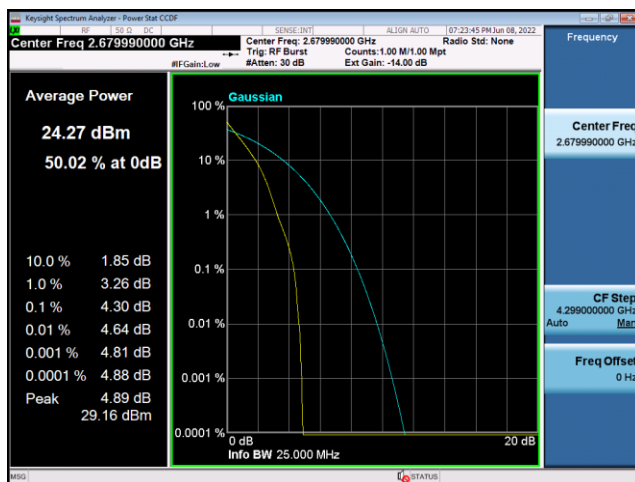
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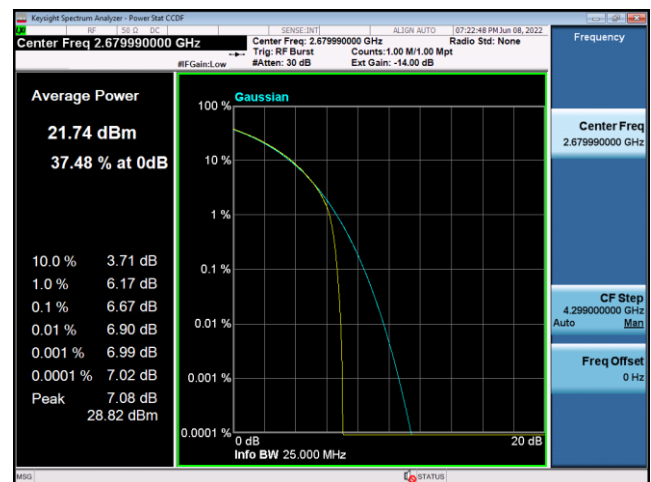
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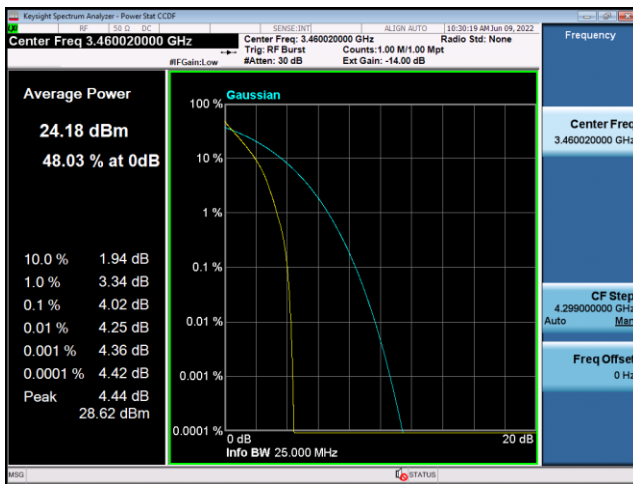
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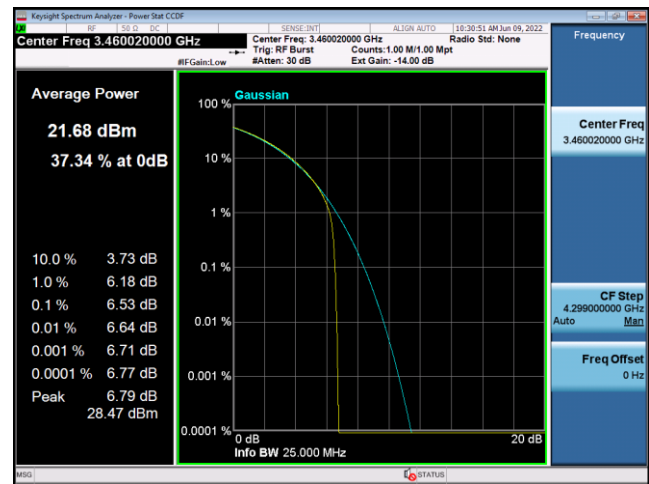
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_Full_High_CH



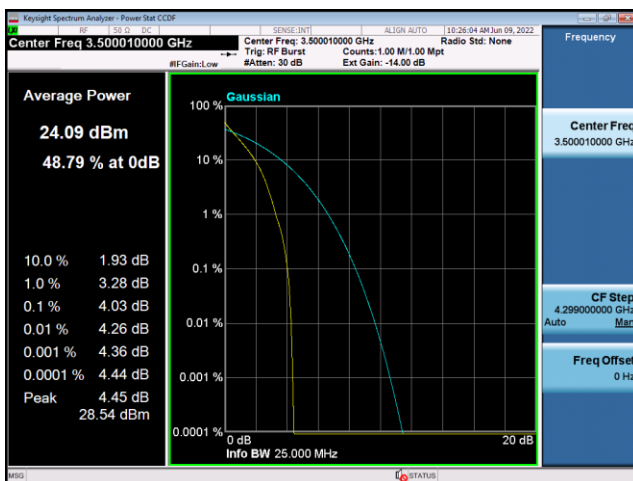
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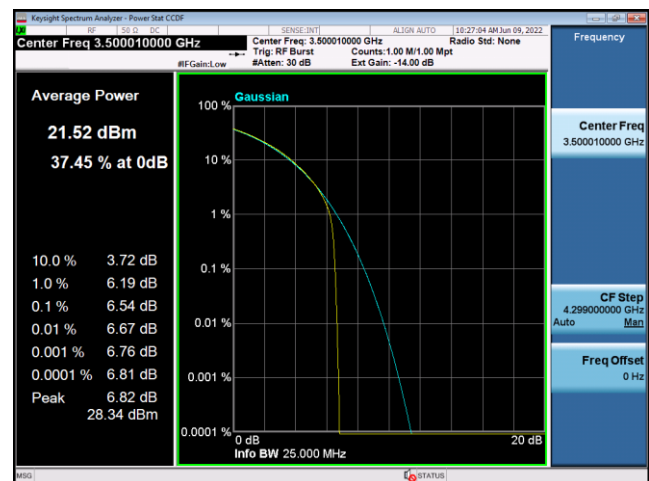
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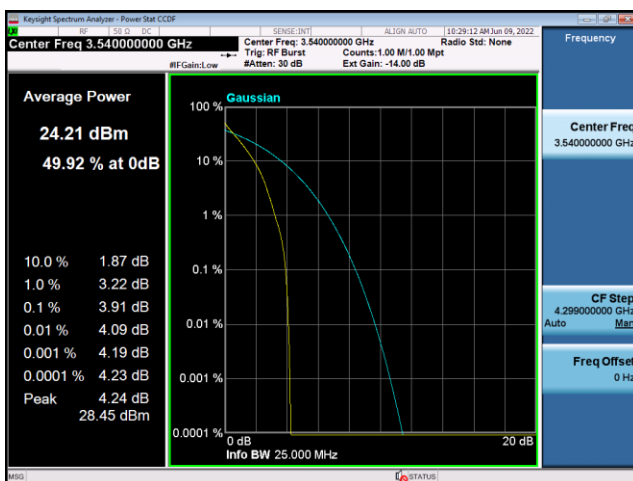
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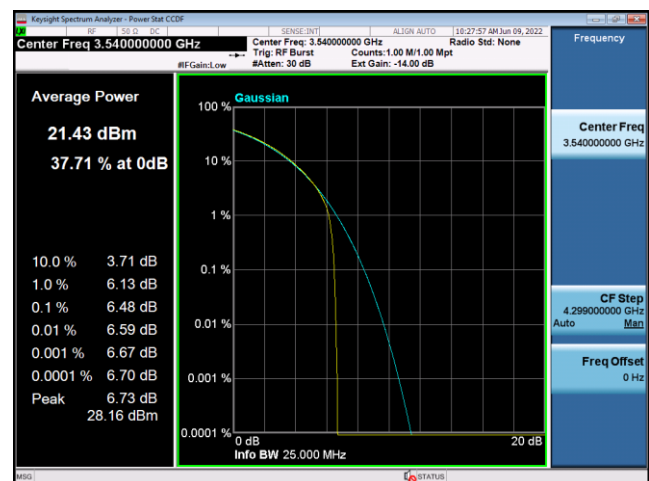
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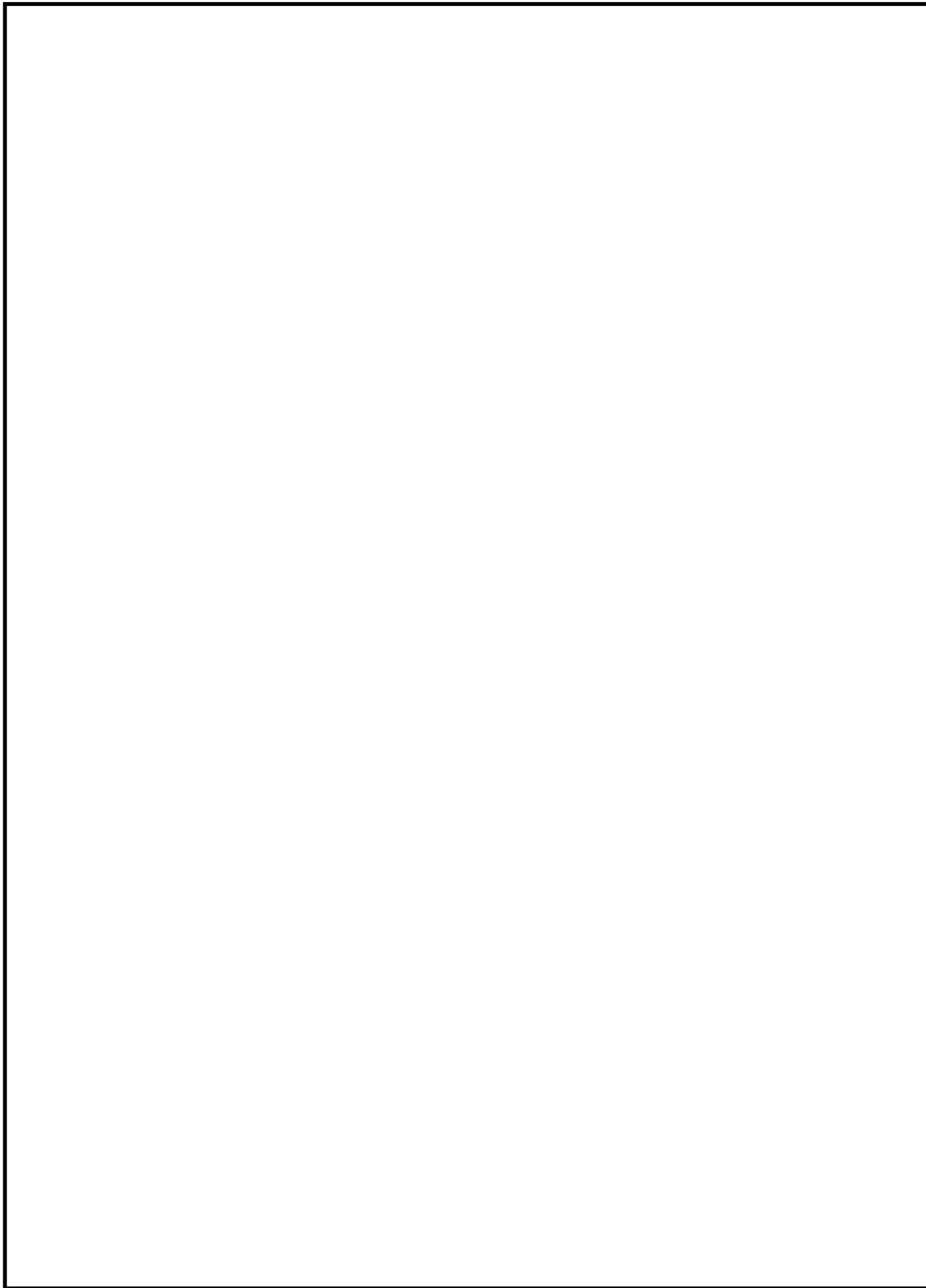


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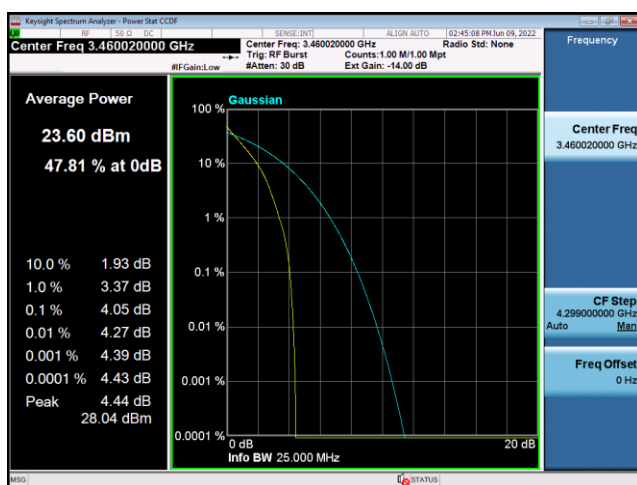


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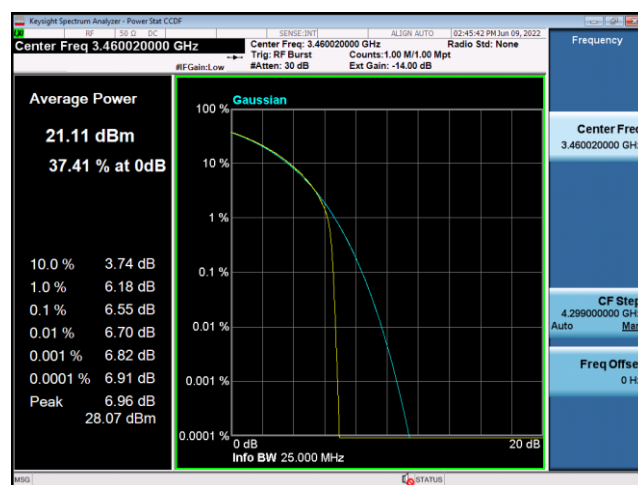




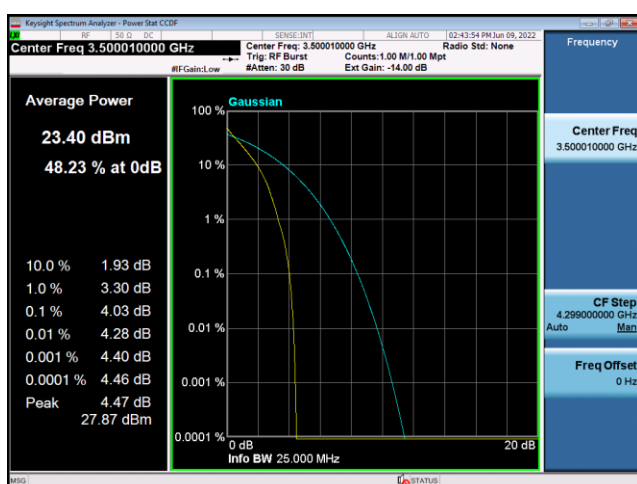
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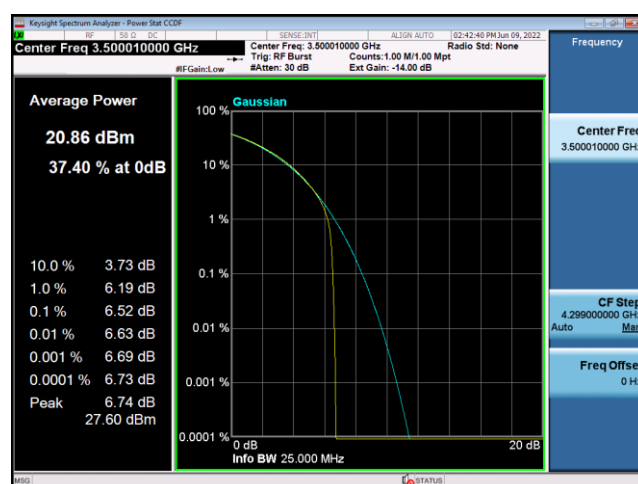
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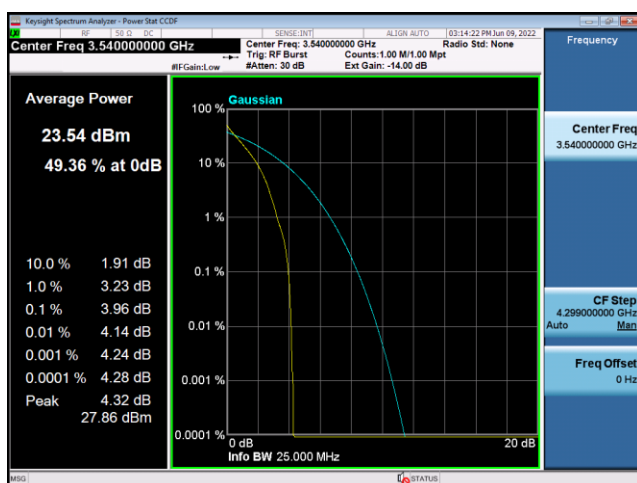
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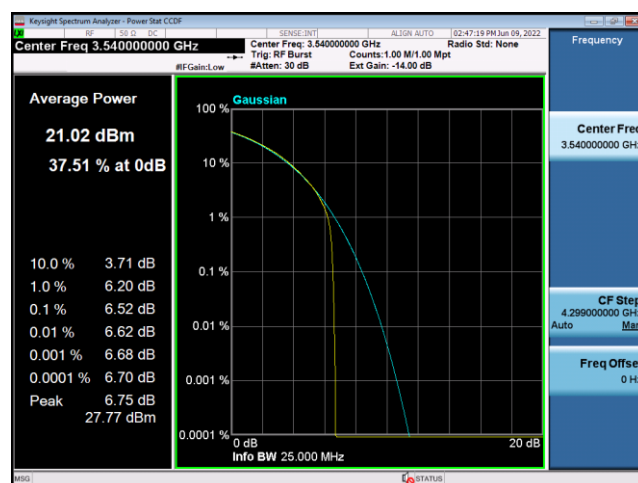
N78(20M)_CP-OFDM_QPSK_Outer _Full_Mid_CH



N78(20M)_DFT-s-OFDM_PI_2-BPSK_ Outer_Full_High_CH



N78(20M)_CP-OFDM_QPSK_Outer _Full_High_CH



99% Occupied Bandwidth and 26dB Emission Bandwidth

NR Band	SCS (kHz)	Bandwidth h (MHz)	Freq (MHz)	Modulation	RB Configuration	99 % OBW (MHz)	26dB EBW (MHz)
5	15	5	836.5	DFT-s-OFDM PI/2 BPSK	25@0	4.496	5.070
5	15	5	836.5	DFT-s-OFDM QPSK	25@0	4.499	5.131
5	15	5	836.5	DFT-s-OFDM 16 QAM	25@0	4.505	5.143
5	15	5	836.5	DFT-s-OFDM 64 QAM	25@0	4.498	5.170
5	15	5	836.5	DFT-s-OFDM 256 QAM	25@0	4.526	5.254
5	15	5	836.5	CP-OFDM QPSK	25@0	4.520	5.309
5	15	5	836.5	CP-OFDM 16 QAM	25@0	4.552	5.354
5	15	5	836.5	CP-OFDM 64 QAM	25@0	4.509	5.266
5	15	5	836.5	CP-OFDM 256 QAM	25@0	4.508	5.284
5	15	10	836.5	DFT-s-OFDM PI/2 BPSK	50@0	8.921	9.710
5	15	10	836.5	DFT-s-OFDM QPSK	50@0	8.934	9.685
5	15	10	836.5	DFT-s-OFDM 16 QAM	50@0	8.948	9.746
5	15	10	836.5	DFT-s-OFDM 64 QAM	50@0	8.941	9.620
5	15	10	836.5	DFT-s-OFDM 256 QAM	50@0	8.923	9.600
5	15	10	836.5	CP-OFDM QPSK	52@0	9.282	10.110
5	15	10	836.5	CP-OFDM 16 QAM	52@0	9.278	10.070
5	15	10	836.5	CP-OFDM 64 QAM	52@0	9.279	9.930
5	15	10	836.5	CP-OFDM 256 QAM	52@0	9.298	10.070
5	15	15	836.5	DFT-s-OFDM PI/2 BPSK	75@0	13.428	14.270
5	15	15	836.5	DFT-s-OFDM QPSK	75@0	13.431	14.320
5	15	15	836.5	DFT-s-OFDM 16 QAM	75@0	13.456	14.380
5	15	15	836.5	DFT-s-OFDM 64 QAM	75@0	13.412	14.420
5	15	15	836.5	DFT-s-OFDM 256 QAM	75@0	13.446	14.340
5	15	15	836.5	CP-OFDM QPSK	79@0	14.108	15.030
5	15	15	836.5	CP-OFDM 16 QAM	79@0	14.136	15.170
5	15	15	836.5	CP-OFDM 64 QAM	79@0	14.141	15.110
5	15	15	836.5	CP-OFDM 256 QAM	79@0	14.099	15.150



5	15	20	836.5	DFT-s-OFDM PI/2 BPSK	100@0	17.849	18.910
5	15	20	836.5	DFT-s-OFDM QPSK	100@0	17.836	18.840
5	15	20	836.5	DFT-s-OFDM 16 QAM	100@0	17.859	18.740
5	15	20	836.5	DFT-s-OFDM 64 QAM	100@0	17.907	18.760
5	15	20	836.5	DFT-s-OFDM 256 QAM	100@0	17.836	18.730
5	15	20	836.5	CP-OFDM QPSK	106@0	18.915	19.950
5	15	20	836.5	CP-OFDM 16 QAM	106@0	18.942	19.950
5	15	20	836.5	CP-OFDM 64 QAM	106@0	18.904	19.920
5	15	20	836.5	CP-OFDM 256 QAM	106@0	18.944	19.950

NR Band	SCS (kHz)	Bandwidth (MHz)	Freq (MHz)	Modulation	RB Configuration	99 % OBW (MHz)	26dB EBW (MHz)
41	30	20	2592.99	DFT-s-OFDM PI/2 BPSK	50@0	17.859	19.25
41	30	20	2592.99	DFT-s-OFDM QPSK	50@0	17.803	18.54
41	30	20	2592.99	DFT-s-OFDM 16 QAM	50@0	17.909	19.03
41	30	20	2592.99	DFT-s-OFDM 64 QAM	50@0	17.878	18.98
41	30	20	2592.99	DFT-s-OFDM 256 QAM	50@0	17.849	19.20
41	30	20	2592.99	CP-OFDM QPSK	51@0	18.260	19.83
41	30	20	2592.99	CP-OFDM 16 QAM	51@0	18.220	19.70
41	30	20	2592.99	CP-OFDM 64 QAM	51@0	18.261	19.74
41	30	20	2592.99	CP-OFDM 256 QAM	51@0	18.224	19.45
41	30	30	2592.99	DFT-s-OFDM PI/2 BPSK	75@0	26.819	28.48
41	30	30	2592.99	DFT-s-OFDM QPSK	75@0	26.832	28.20
41	30	30	2592.99	DFT-s-OFDM 16 QAM	75@0	26.823	28.90
41	30	30	2592.99	DFT-s-OFDM 64 QAM	75@0	26.804	28.49
41	30	30	2592.99	DFT-s-OFDM 256 QAM	75@0	26.879	28.30
41	30	30	2592.99	CP-OFDM QPSK	78@0	27.842	29.73
41	30	30	2592.99	CP-OFDM 16 QAM	78@0	27.894	29.56
41	30	30	2592.99	CP-OFDM 64 QAM	78@0	27.867	29.78
41	30	30	2592.99	CP-OFDM 256 QAM	78@0	27.904	29.36
41	30	40	2592.99	DFT-s-OFDM PI/2 BPSK	100@0	35.772	37.40
41	30	40	2592.99	DFT-s-OFDM QPSK	100@0	35.751	37.53
41	30	40	2592.99	DFT-s-OFDM 16 QAM	100@0	35.836	37.71
41	30	40	2592.99	DFT-s-OFDM 64 QAM	100@0	35.762	37.75
41	30	40	2592.99	DFT-s-OFDM 256 QAM	100@0	35.753	37.60
41	30	40	2592.99	CP-OFDM QPSK	106@0	37.803	39.45
41	30	40	2592.99	CP-OFDM 16 QAM	106@0	37.902	40.10
41	30	40	2592.99	CP-OFDM 64 QAM	106@0	37.855	40.06
41	30	40	2592.99	CP-OFDM 256 QAM	106@0	38.002	39.70
41	30	50	2592.99	DFT-s-OFDM PI/2 BPSK	128@0	45.688	47.91

41	30	50	2592.99	DFT-s-OFDM QPSK	128@0	45.739	47.95
41	30	50	2592.99	DFT-s-OFDM 16 QAM	128@0	45.883	47.86
41	30	50	2592.99	DFT-s-OFDM 64 QAM	128@0	45.807	47.96
41	30	50	2592.99	DFT-s-OFDM 256 QAM	128@0	45.766	47.67
41	30	50	2592.99	CP-OFDM QPSK	133@0	47.470	49.80
41	30	50	2592.99	CP-OFDM 16 QAM	133@0	47.445	49.67
41	30	50	2592.99	CP-OFDM 64 QAM	133@0	47.486	49.50
41	30	50	2592.99	CP-OFDM 256 QAM	133@0	47.513	49.20
41	30	60	2592.99	DFT-s-OFDM PI/2 BPSK	162@0	57.867	60.88
41	30	60	2592.99	DFT-s-OFDM QPSK	162@0	57.809	60.24
41	30	60	2592.99	DFT-s-OFDM 16 QAM	162@0	57.862	59.93
41	30	60	2592.99	DFT-s-OFDM 64 QAM	162@0	57.840	60.05
41	30	60	2592.99	DFT-s-OFDM 256 QAM	162@0	57.793	60.35
41	30	60	2592.99	CP-OFDM QPSK	162@0	57.739	60.19
41	30	60	2592.99	CP-OFDM 16 QAM	162@0	57.780	60.26
41	30	60	2592.99	CP-OFDM 64 QAM	162@0	57.752	60.07
41	30	60	2592.99	CP-OFDM 256 QAM	162@0	57.668	59.95
41	30	80	2592.99	DFT-s-OFDM PI/2 BPSK	216@0	76.937	80.17
41	30	80	2592.99	DFT-s-OFDM QPSK	216@0	76.780	79.74
41	30	80	2592.99	DFT-s-OFDM 16 QAM	216@0	76.908	79.85
41	30	80	2592.99	DFT-s-OFDM 64 QAM	216@0	77.002	79.72
41	30	80	2592.99	DFT-s-OFDM 256 QAM	216@0	76.790	79.65
41	30	80	2592.99	CP-OFDM QPSK	217@0	77.167	79.84
41	30	80	2592.99	CP-OFDM 16 QAM	217@0	77.295	80.57
41	30	80	2592.99	CP-OFDM 64 QAM	217@0	77.311	80.59
41	30	80	2592.99	CP-OFDM 256 QAM	217@0	77.273	82.10
41	30	90	2592.99	DFT-s-OFDM PI/2 BPSK	240@0	86.615	89.71
41	30	90	2592.99	DFT-s-OFDM QPSK	240@0	86.560	89.74
41	30	90	2592.99	DFT-s-OFDM 16 QAM	240@0	86.601	89.91
41	30	90	2592.99	DFT-s-OFDM 64 QAM	240@0	86.418	89.57
41	30	90	2592.99	DFT-s-OFDM 256 QAM	240@0	86.316	89.51



41	30	90	2592.99	CP-OFDM QPSK	245@0	87.252	90.12
41	30	90	2592.99	CP-OFDM 16 QAM	245@0	87.282	90.27
41	30	90	2592.99	CP-OFDM 64 QAM	245@0	87.496	90.74
41	30	90	2592.99	CP-OFDM 256 QAM	245@0	87.199	90.29
41	30	100	2592.99	DFT-s-OFDM PI/2 BPSK	270@0	96.165	100.00
41	30	100	2592.99	DFT-s-OFDM QPSK	270@0	96.301	99.78
41	30	100	2592.99	DFT-s-OFDM 16 QAM	270@0	96.385	100.20
41	30	100	2592.99	DFT-s-OFDM 64 QAM	270@0	96.323	99.94
41	30	100	2592.99	DFT-s-OFDM 256 QAM	270@0	96.141	99.79
41	30	100	2592.99	CP-OFDM QPSK	273@0	97.432	101.80
41	30	100	2592.99	CP-OFDM 16 QAM	273@0	97.157	100.90
41	30	100	2592.99	CP-OFDM 64 QAM	273@0	97.215	100.90
41	30	100	2592.99	CP-OFDM 256 QAM	273@0	97.066	101.00

NR Band	SCS (kHz)	Bandwidth (MHz)	Freq (MHz)	Modulation	RB Configuration	99% OBW (MHz)	26dB EBW (MHz)
77	30	20	3500.01	DFT-s-OFDM PI/2 BPSK	50@0	17.844	19.01
77	30	20	3500.01	DFT-s-OFDM QPSK	50@0	17.829	19.09
77	30	20	3500.01	DFT-s-OFDM 16 QAM	50@0	17.889	19.31
77	30	20	3500.01	DFT-s-OFDM 64 QAM	50@0	17.819	19.03
77	30	20	3500.01	DFT-s-OFDM 256 QAM	50@0	17.844	19.37
77	30	20	3500.01	CP-OFDM QPSK	51@0	18.205	19.44
77	30	20	3500.01	CP-OFDM 16 QAM	51@0	18.202	19.74
77	30	20	3500.01	CP-OFDM 64 QAM	51@0	18.207	19.47
77	30	20	3500.01	CP-OFDM 256 QAM	51@0	18.224	19.64
77	30	30	3500.01	DFT-s-OFDM PI/2 BPSK	75@0	26.784	28.45
77	30	30	3500.01	DFT-s-OFDM QPSK	75@0	26.835	28.14
77	30	30	3500.01	DFT-s-OFDM 16 QAM	75@0	26.819	28.52
77	30	30	3500.01	DFT-s-OFDM 64 QAM	75@0	26.800	28.52
77	30	30	3500.01	DFT-s-OFDM 256 QAM	75@0	26.781	28.53
77	30	30	3500.01	CP-OFDM QPSK	78@0	27.883	29.74
77	30	30	3500.01	CP-OFDM 16 QAM	78@0	27.854	29.46
77	30	30	3500.01	CP-OFDM 64 QAM	78@0	27.825	29.65
77	30	30	3500.01	CP-OFDM 256 QAM	78@0	27.861	29.76
77	30	40	3500.01	DFT-s-OFDM PI/2 BPSK	100@0	35.767	37.61
77	30	40	3500.01	DFT-s-OFDM QPSK	100@0	35.750	37.70
77	30	40	3500.01	DFT-s-OFDM 16 QAM	100@0	35.784	37.67
77	30	40	3500.01	DFT-s-OFDM 64 QAM	100@0	35.763	37.51
77	30	40	3500.01	DFT-s-OFDM 256 QAM	100@0	35.742	37.43
77	30	40	3500.01	CP-OFDM QPSK	106@0	37.842	39.79
77	30	40	3500.01	CP-OFDM 16 QAM	106@0	37.840	40.04
77	30	40	3500.01	CP-OFDM 64 QAM	106@0	37.894	39.90
77	30	40	3500.01	CP-OFDM 256 QAM	106@0	37.876	39.50
77	30	50	3500.01	DFT-s-OFDM PI/2 BPSK	128@0	45.809	48.20

77	30	50	3500.01	DFT-s-OFDM QPSK	128@0	45.728	48.24
77	30	50	3500.01	DFT-s-OFDM 16 QAM	128@0	45.789	47.49
77	30	50	3500.01	DFT-s-OFDM 64 QAM	128@0	45.834	47.31
77	30	50	3500.01	DFT-s-OFDM 256 QAM	128@0	45.749	47.74
77	30	50	3500.01	CP-OFDM QPSK	133@0	47.400	49.72
77	30	50	3500.01	CP-OFDM 16 QAM	133@0	47.500	49.56
77	30	50	3500.01	CP-OFDM 64 QAM	133@0	47.396	49.18
77	30	50	3500.01	CP-OFDM 256 QAM	133@0	47.494	49.52
77	30	60	3500.01	DFT-s-OFDM PI/2 BPSK	162@0	57.919	60.20
77	30	60	3500.01	DFT-s-OFDM QPSK	162@0	57.768	60.57
77	30	60	3500.01	DFT-s-OFDM 16 QAM	162@0	57.777	60.29
77	30	60	3500.01	DFT-s-OFDM 64 QAM	162@0	57.845	60.27
77	30	60	3500.01	DFT-s-OFDM 256 QAM	162@0	57.827	60.05
77	30	60	3500.01	CP-OFDM QPSK	162@0	57.844	60.02
77	30	60	3500.01	CP-OFDM 16 QAM	162@0	57.796	60.26
77	30	60	3500.01	CP-OFDM 64 QAM	162@0	57.771	60.07
77	30	60	3500.01	CP-OFDM 256 QAM	162@0	57.639	60.08
77	30	80	3500.01	DFT-s-OFDM PI/2 BPSK	216@0	77.142	79.95
77	30	80	3500.01	DFT-s-OFDM QPSK	216@0	77.082	80.10
77	30	80	3500.01	DFT-s-OFDM 16 QAM	216@0	77.281	79.76
77	30	80	3500.01	DFT-s-OFDM 64 QAM	216@0	77.096	79.76
77	30	80	3500.01	DFT-s-OFDM 256 QAM	216@0	77.120	79.72
77	30	80	3500.01	CP-OFDM QPSK	217@0	77.313	80.36
77	30	80	3500.01	CP-OFDM 16 QAM	217@0	77.343	80.01
77	30	80	3500.01	CP-OFDM 64 QAM	217@0	77.376	80.08
77	30	80	3500.01	CP-OFDM 256 QAM	217@0	77.287	79.91
77	30	90	3500.01	DFT-s-OFDM PI/2 BPSK	240@0	86.945	131.10
77	30	90	3500.01	DFT-s-OFDM QPSK	240@0	86.660	89.99
77	30	90	3500.01	DFT-s-OFDM 16 QAM	240@0	86.671	89.77
77	30	90	3500.01	DFT-s-OFDM 64 QAM	240@0	85.528	89.75
77	30	90	3500.01	DFT-s-OFDM 256 QAM	240@0	86.446	89.63



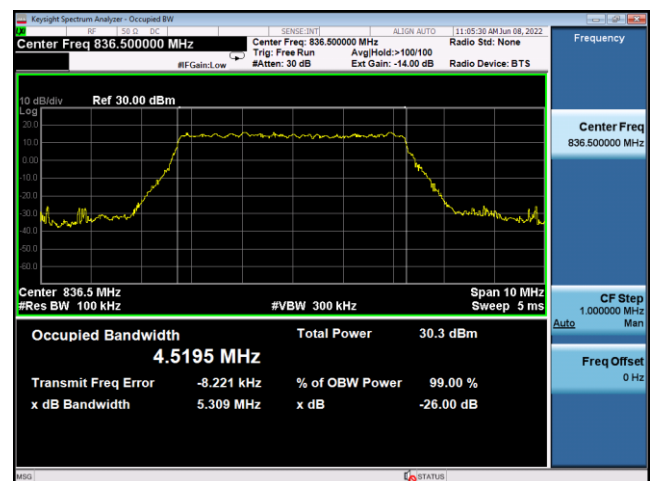
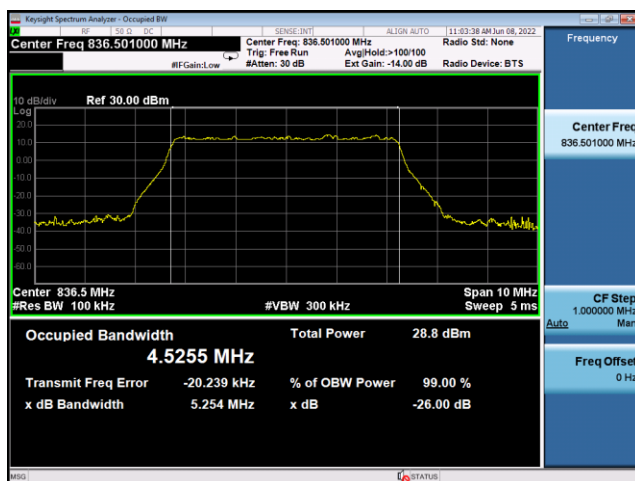
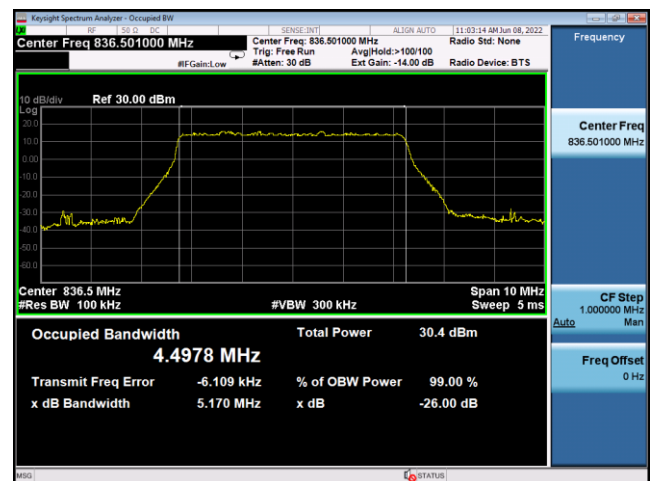
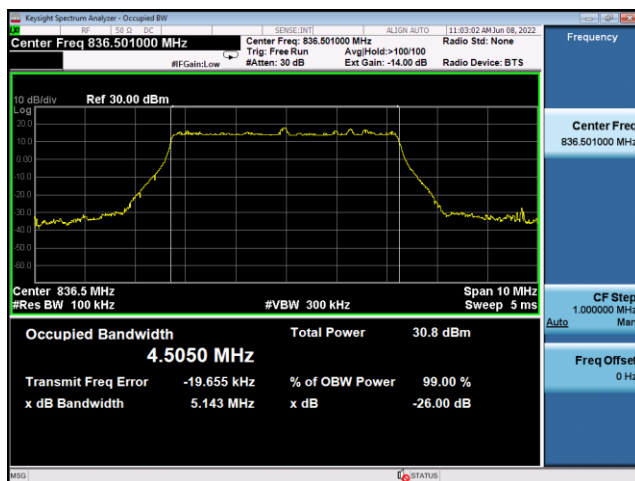
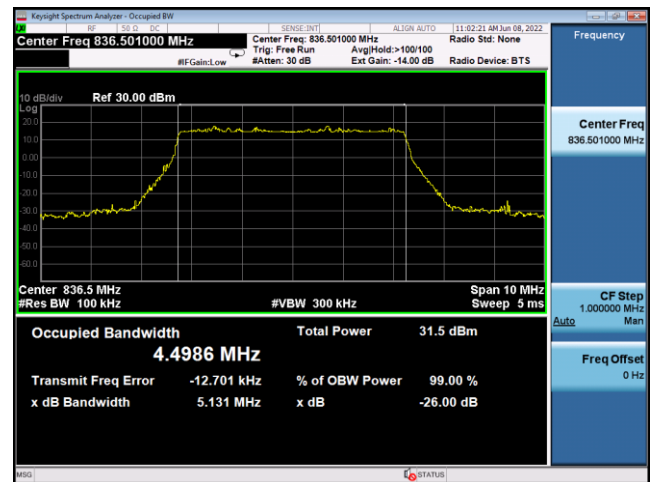
77	30	90	3500.01	CP-OFDM QPSK	245@0	87.307	90.16
77	30	90	3500.01	CP-OFDM 16 QAM	245@0	87.247	90.31
77	30	90	3500.01	CP-OFDM 64 QAM	245@0	87.391	90.35
77	30	90	3500.01	CP-OFDM 256 QAM	245@0	87.216	90.25
77	30	100	3500.01	DFT-s-OFDM PI/2 BPSK	270@0	96.828	100.20
77	30	100	3500.01	DFT-s-OFDM QPSK	270@0	96.372	100.00
77	30	100	3500.01	DFT-s-OFDM 16 QAM	270@0	96.284	99.82
77	30	100	3500.01	DFT-s-OFDM 64 QAM	270@0	96.226	99.79
77	30	100	3500.01	DFT-s-OFDM 256 QAM	270@0	96.096	99.76
77	30	100	3500.01	CP-OFDM QPSK	273@0	97.361	101.10
77	30	100	3500.01	CP-OFDM 16 QAM	273@0	97.227	100.90
77	30	100	3500.01	CP-OFDM 64 QAM	273@0	97.348	101.10
77	30	100	3500.01	CP-OFDM 256 QAM	273@0	97.199	101.00

NR Band	SCS (kHz)	Bandwidth (MHz)	Freq (MHz)	Modulation	RB Configuration	99% OBW (MHz)	26dB EBW (MHz)
78	30	20	3500.01	DFT-s-OFDM PI/2 BPSK	50@0	17.815	19.08
78	30	20	3500.01	DFT-s-OFDM QPSK	50@0	17.815	19.03
78	30	20	3500.01	DFT-s-OFDM 16 QAM	50@0	17.854	19.06
78	30	20	3500.01	DFT-s-OFDM 64 QAM	50@0	17.837	19.20
78	30	20	3500.01	DFT-s-OFDM 256 QAM	50@0	17.839	19.41
78	30	20	3500.01	CP-OFDM QPSK	51@0	18.217	19.82
78	30	20	3500.01	CP-OFDM 16 QAM	51@0	18.198	19.61
78	30	20	3500.01	CP-OFDM 64 QAM	51@0	19.196	19.53
78	30	20	3500.01	CP-OFDM 256 QAM	51@0	18.222	19.40
78	30	30	3500.01	DFT-s-OFDM PI/2 BPSK	75@0	26.820	28.17
78	30	30	3500.01	DFT-s-OFDM QPSK	75@0	26.796	28.33
78	30	30	3500.01	DFT-s-OFDM 16 QAM	75@0	26.811	28.35
78	30	30	3500.01	DFT-s-OFDM 64 QAM	75@0	26.779	28.48
78	30	30	3500.01	DFT-s-OFDM 256 QAM	75@0	26.881	28.35
78	30	30	3500.01	CP-OFDM QPSK	78@0	27.891	29.50
78	30	30	3500.01	CP-OFDM 16 QAM	78@0	27.843	29.28
78	30	30	3500.01	CP-OFDM 64 QAM	78@0	27.816	29.81
78	30	30	3500.01	CP-OFDM 256 QAM	78@0	27.844	29.42
78	30	40	3500.01	DFT-s-OFDM PI/2 BPSK	100@0	35.776	37.66
78	30	40	3500.01	DFT-s-OFDM QPSK	100@0	35.741	37.64
78	30	40	3500.01	DFT-s-OFDM 16 QAM	100@0	35.726	37.35
78	30	40	3500.01	DFT-s-OFDM 64 QAM	100@0	35.792	37.47
78	30	40	3500.01	DFT-s-OFDM 256 QAM	100@0	35.737	37.10
78	30	40	3500.01	CP-OFDM QPSK	106@0	37.827	39.77
78	30	40	3500.01	CP-OFDM 16 QAM	106@0	37.861	39.86
78	30	40	3500.01	CP-OFDM 64 QAM	106@0	37.813	39.81
78	30	40	3500.01	CP-OFDM 256 QAM	106@0	38.023	40.01
78	30	50	3500.01	DFT-s-OFDM PI/2 BPSK	128@0	45.743	47.84

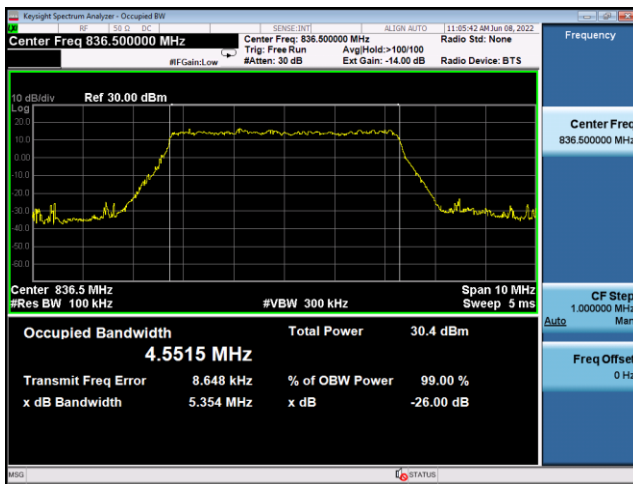
78	30	50	3500.01	DFT-s-OFDM QPSK	128@0	45.887	47.66
78	30	50	3500.01	DFT-s-OFDM 16 QAM	128@0	45.721	47.42
78	30	50	3500.01	DFT-s-OFDM 64 QAM	128@0	45.761	47.32
78	30	50	3500.01	DFT-s-OFDM 256 QAM	128@0	45.793	47.48
78	30	50	3500.01	CP-OFDM QPSK	133@0	47.288	49.74
78	30	50	3500.01	CP-OFDM 16 QAM	133@0	47.446	49.45
78	30	50	3500.01	CP-OFDM 64 QAM	133@0	47.424	49.39
78	30	50	3500.01	CP-OFDM 256 QAM	133@0	47.522	49.34
78	30	60	3500.01	DFT-s-OFDM PI/2 BPSK	162@0	57.814	59.91
78	30	60	3500.01	DFT-s-OFDM QPSK	162@0	57.851	59.90
78	30	60	3500.01	DFT-s-OFDM 16 QAM	162@0	57.870	59.97
78	30	60	3500.01	DFT-s-OFDM 64 QAM	162@0	57.812	60.01
78	30	60	3500.01	DFT-s-OFDM 256 QAM	162@0	57.811	60.32
78	30	60	3500.01	CP-OFDM QPSK	162@0	57.818	60.07
78	30	60	3500.01	CP-OFDM 16 QAM	162@0	57.728	60.03
78	30	60	3500.01	CP-OFDM 64 QAM	162@0	57.800	60.02
78	30	60	3500.01	CP-OFDM 256 QAM	162@0	57.707	59.94
78	30	80	3500.01	DFT-s-OFDM PI/2 BPSK	216@0	77.160	79.99
78	30	80	3500.01	DFT-s-OFDM QPSK	216@0	77.066	80.22
78	30	80	3500.01	DFT-s-OFDM 16 QAM	216@0	77.051	80.00
78	30	80	3500.01	DFT-s-OFDM 64 QAM	216@0	77.085	79.79
78	30	80	3500.01	DFT-s-OFDM 256 QAM	216@0	77.033	79.94
78	30	80	3500.01	CP-OFDM QPSK	217@0	77.310	80.26
78	30	80	3500.01	CP-OFDM 16 QAM	217@0	77.319	80.21
78	30	80	3500.01	CP-OFDM 64 QAM	217@0	77.445	80.32
78	30	80	3500.01	CP-OFDM 256 QAM	217@0	77.363	80.22
78	30	90	3500.01	DFT-s-OFDM PI/2 BPSK	240@0	86.929	89.60
78	30	90	3500.01	DFT-s-OFDM QPSK	240@0	86.571	89.76
78	30	90	3500.01	DFT-s-OFDM 16 QAM	240@0	86.765	89.56
78	30	90	3500.01	DFT-s-OFDM 64 QAM	240@0	86.429	89.42
78	30	90	3500.01	DFT-s-OFDM 256 QAM	240@0	86.519	89.85



78	30	90	3500.01	CP-OFDM QPSK	245@0	87.307	90.60
78	30	90	3500.01	CP-OFDM 16 QAM	245@0	87.238	90.46
78	30	90	3500.01	CP-OFDM 64 QAM	245@0	87.542	90.32
78	30	90	3500.01	CP-OFDM 256 QAM	245@0	87.260	90.29
78	30	100	3500.01	DFT-s-OFDM PI/2 BPSK	270@0	96.387	100.10
78	30	100	3500.01	DFT-s-OFDM QPSK	270@0	96.086	100.20
78	30	100	3500.01	DFT-s-OFDM 16 QAM	270@0	96.253	100.10
78	30	100	3500.01	DFT-s-OFDM 64 QAM	270@0	96.321	99.97
78	30	100	3500.01	DFT-s-OFDM 256 QAM	270@0	96.329	99.78
78	30	100	3500.01	CP-OFDM QPSK	273@0	96.203	100.10
78	30	100	3500.01	CP-OFDM 16 QAM	273@0	96.273	100.10
78	30	100	3500.01	CP-OFDM 64 QAM	273@0	96.356	99.98
78	30	100	3500.01	CP-OFDM 256 QAM	273@0	96.245	99.86



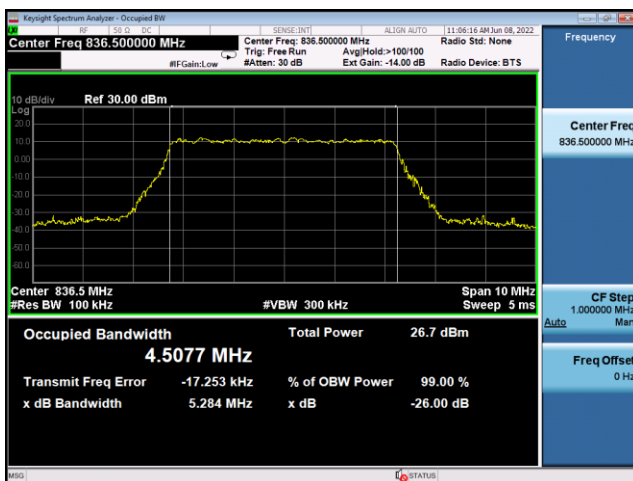
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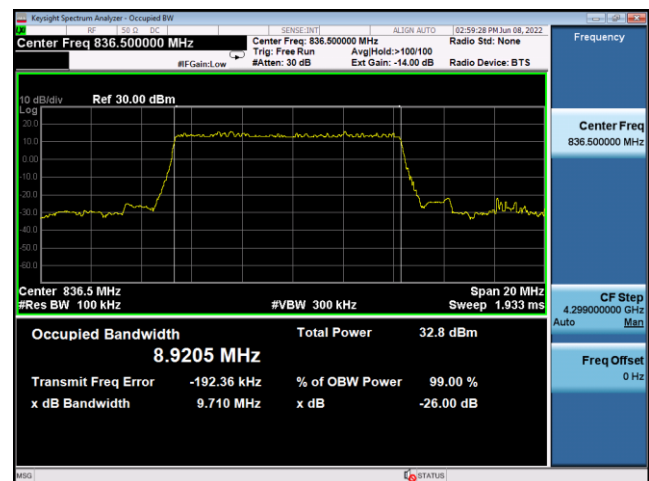
N5(5M)_CP-OFDM_64QAM_ Outer_Full_Mid_CH



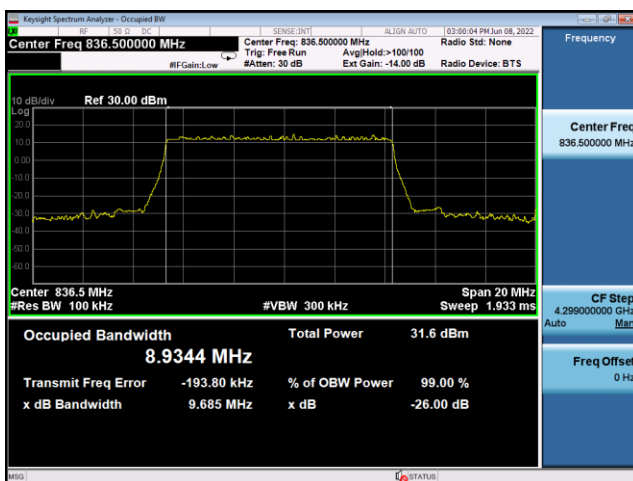
N5(5M)_CP-OFDM_256QAM_ Outer_Full_Mid_CH



N5(10M)_DFT-s-OFDM_PI_2-BPSK_ Outer_Full_Mid_CH



N5(10M)_DFT-s-OFDM_QPSK_ Outer_Full_Mid_CH



N5(10M)_DFT-s-OFDM_16QAM_ Outer_Full_Mid_CH

