

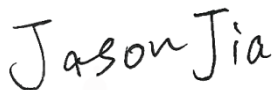
FCC RF Test Report

APPLICANT : Motorola Mobility LLC
EQUIPMENT : Mobile Cellular Phone
BRAND NAME : Motorola
MODEL NAME : XT2201-1
FCC ID : IHDT56AB1
STANDARD : 47 CFR Part 2, Part 27 Subpart Q
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)
TEST DATE(S) : Nov. 10, 2021 ~ Nov. 19, 2021

We, Sporton International (Kunshan) Inc., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.26-2015 and shown compliance with the applicable technical standards.

This report contains data that were produced under subcontract by Sporton International (ShenZhen) Inc.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International (Kunshan) Inc., the test report shall not be reproduced except in full.



Reviewed by: Jason Jia / Supervisor



Approved by: Alex Wang / Manager



Sporton International (Kunshan) Inc.

**No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300
People's Republic of China**

TABLE OF CONTENTS

REVISION HISTORY.....	3
SUMMARY OF TEST RESULT	4
1 GENERAL DESCRIPTION	5
1.1 Applicant.....	5
1.2 Manufacturer.....	5
1.3 Product Feature of Equipment Under Test.....	5
1.4 Product Specification of Equipment Under Test.....	5
1.5 Modification of EUT	6
1.6 Maximum EIRP Power and Emission Designator	6
1.7 Testing Site.....	7
1.8 Test Software.....	7
1.9 Applied Standards	8
1.10 Specification of Accessory.....	8
2 TEST CONFIGURATION OF EQUIPMENT UNDER TEST	9
2.1 Test Mode.....	9
2.2 Connection Diagram of Test System.....	10
2.3 Support Unit used in test configuration and system	10
2.4 Measurement Results Explanation Example.....	10
2.5 Frequency List of Low/Middle/High Channels	11
3 CONDUCTED TEST ITEMS	12
3.1 Measuring Instruments	12
3.2 Test Setup	12
3.3 Test Result of Conducted Test	12
3.4 Conducted Output Power Measurement	13
3.5 Peak-to-Average Ratio	14
3.6 EIRP	15
3.7 Occupied Bandwidth.....	16
3.8 Conducted Band Edge Measurement	17
3.9 Conducted Spurious Emission Measurement	18
3.10 Frequency Stability Measurement.....	19
4 RADIATED TEST ITEMS	20
4.1 Measuring Instruments	20
4.2 Test Setup	20
4.3 Test Result of Radiated Test	21
4.4 Radiated Spurious Emission Measurement	22
5 LIST OF MEASURING EQUIPMENT	23
6 UNCERTAINTY OF EVALUATION	24
APPENDIX A. TEST RESULTS OF CONDUCTED TEST	
APPENDIX B. TEST RESULTS OF RADIATED TEST	
APPENDIX C. TEST SETUP PHOTOGRAPHS	

REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG192317I	Rev. 01	Initial issue of report	Dec. 10, 2021

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	—	Report Only	-
3.5	§27.50 (k)(4)	Peak-to-Average Ratio	<13dB	PASS	
3.6	§27.50 (k)(3)	EIRP	EIRP < 1W (30dBm)	PASS	-
3.7	§2.1049	Occupied Bandwidth	—	Report Only	-
3.8	§2.1051 §27.53 (n)(2)	Conducted Band Edge Measurement	-13dBm/MHz	PASS	-
3.9	§2.1051 §27.53 (n)(2)	Conducted Spurious Emission	-13dBm/MHz	PASS	-
3.10	§2.1055 §27.54	Frequency Stability Temperature & Voltage	Within the band	PASS	-
4.4	§2.1053 §27.53 (n)(2)	Radiated Spurious Emission	-13dBm/MHz	PASS	Under limit 38.53 dB at 10356.000 MHz

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.



1 General Description

1.1 Applicant

Motorola Mobility LLC
222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

1.2 Manufacturer

Motorola Mobility LLC
222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Cellular Phone
Brand Name	Motorola
Model Name	XT2201-1
FCC ID	IHDT56AB1
IMEI Code	Conducted : N/A Radiation : 355871980014315/355871980014323
HW Version	DVT2
SW Version	SSH32.79
EUT Stage	Identical Prototype

1.4 Product Specification of Equipment Under Test

Product Feature	
Tx/Rx Frequency	5G NR n77: 3450 MHz ~ 3550 MHz 5G NR n78: 3450 MHz ~ 3550 MHz
Bandwidth	20MHz / 30MHz / 40MHz / 50MHz / 60MHz / 70MHz / 80MHz / 90MHz / 100MHz
SCS	30kHz
Maximum Output Power to Antenna	<Ant. 2> 5G NR n77 : 23.19 dBm 5G NR n78 : 25.94 dBm
Antenna Gain	<Ant. 2> 5G NR n77 : -0.3 dBi 5G NR n78 : -0.3 dBi
Type of Modulation	CP-OFDM: QPSK / 16QAM / 64QAM / 256QAM DFT-s-OFDM: PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM

Remark:

1. 5G NR n78 supports SA and NSA mode, n77 supports NSA mode only. According to the maximum power between SA and NSA mode, NSA covers SA mode and 5G NR n78 covers 5G NR n77.

2. The EN-DC mode combination could be referred to the product spec.
3. The device supports HPUE mode for 5G NR n78.
4. The device supports n78(1T4R) SRS resource, and add ant.3/7/8 power and RSE test.

1.5 Modification of EUT

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

1.6 Maximum EIRP Power and Emission Designator

5G NR n78/n77		PI/2 BPSK/QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
20	3460.02 ~ 3540.00	0.3622	18M2G7D	0.3236	18M2W7D
30	3465.00 ~ 3534.99	0.3581	27M8G7D	0.2897	27M9W7D
40	3470.01 ~ 3529.98	0.3656	37M8G7D	0.2891	37M9W7D
50	3475.02 ~ 3525.00	0.3597	47M5G7D	0.2773	47M5W7D
60	3480.00 ~ 3519.99	0.3573	58M0G7D	0.2767	57M9W7D
40	3485.01 ~ 3514.98	0.3524	67M3G7D	0.2761	67M5W7D
80	3490.02 ~ 3510.00	0.3516	77M5G7D	0.2723	77M5W7D
90	3495.00 ~ 3504.99	0.3420	87M4G7D	0.2710	87M5W7D
100	3500.01	0.3664	97M5G7D	0.2692	97M4W7D

Note:

1. 5G NR Band n78 overlaps the entire frequency range of Band n77. Therefore, the test results of conducted test items provided in this report covers Band n78 as well as Band n77
2. All modulations have been evaluation, only the worst test results of PSK & QAM are shown in the report

1.7 Testing Site

Sporton International (Kunshan) Inc. is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Test Firm	Sporton International (Kunshan) Inc.		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158 FAX : +86-512-57900958		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	03CH04-KS	CN1257	314309

Sporton International (Shenzhen) Inc. is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Test Firm	Sporton International (Shenzhen) Inc.		
Test Site Location	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China TEL: +86-755-86379589 FAX: +86-755-86379595		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	TH01-SZ	CN1256	421272

Test data subcontracted: Conducted test case in section 3 of this report

1.8 Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH04-KS	AUDIX	E3	6.2009-8-24a

1.9 Applied Standards

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

- 47 CFR Part 2, Part 27 Subpart Q
- ANSI C63.26-2015
- FCC KDB 971168 Power Meas License Digital Systems D01 v03r01
- FCC KDB 412172 D01 Determining ERP and EIRP v01r01

Remark:

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

1.10 Specification of Accessory

Specification of Accessory				
AC Adapter 1(US)	Brand Name	Motorola (Salom)	Model Name	MC-681
AC Adapter 1(EU)	Brand Name	Motorola (Salom)	Model Name	MC-682
AC Adapter 1(UK)	Brand Name	Motorola (Salom)	Model Name	MC-683
AC Adapter 1(AR)	Brand Name	Motorola (Salom)	Model Name	MC-686
AC Adapter 1(BR)	Brand Name	Motorola (Salom)	Model Name	MC-687
AC Adapter 1(Chile)	Brand Name	Motorola (Salom)	Model Name	MC-689
AC Adapter 2(AU)	Brand Name	Motorola (Salom)	Model Name	MC-305
AC Adapter 3(AU)	Brand Name	Motorola (Acbel)	Model Name	MC-305
Battery	Brand Name	Motorola (ATL)	Model Name	NA50
Earphone	Brand Name	Motorola(Lyand)	Model Name	MD211(SH38D20195)
USB Cable 1	Brand Name	Motorola(Saibao)	Model Name	SC18D13215
USB Cable 2	Brand Name	Motorola(Cabletech)	Model Name	SC18D13216
USB Cable 3	Brand Name	Motorola(Luxshare)	Model Name	SC18D13217
USB Cable 4	Brand Name	Motorola(Saibao)	Model Name	SC18D24968
Type C to HDMI Cable /USBC Cable	Brand Name	Motorola(Linxee)	Model Name	SC18D02146
Stylus	Brand Name	Motorola smart stylus	Model Name	XT2201-S
Smart Foilo	Brand Name	Motorola(Techson)	Model Name	SS68D36907,SS68D36906
Wireless Dongle	Brand Name	Motorola	Model Name	MD-02
HDMI Cable	Brand Name	Motorola	Model Name	HC-01
USB Cable(Type A/C)	Brand Name	Motorola	Model Name	SC18C24367

2 Test Configuration of Equipment Under Test

2.1 Test Mode

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

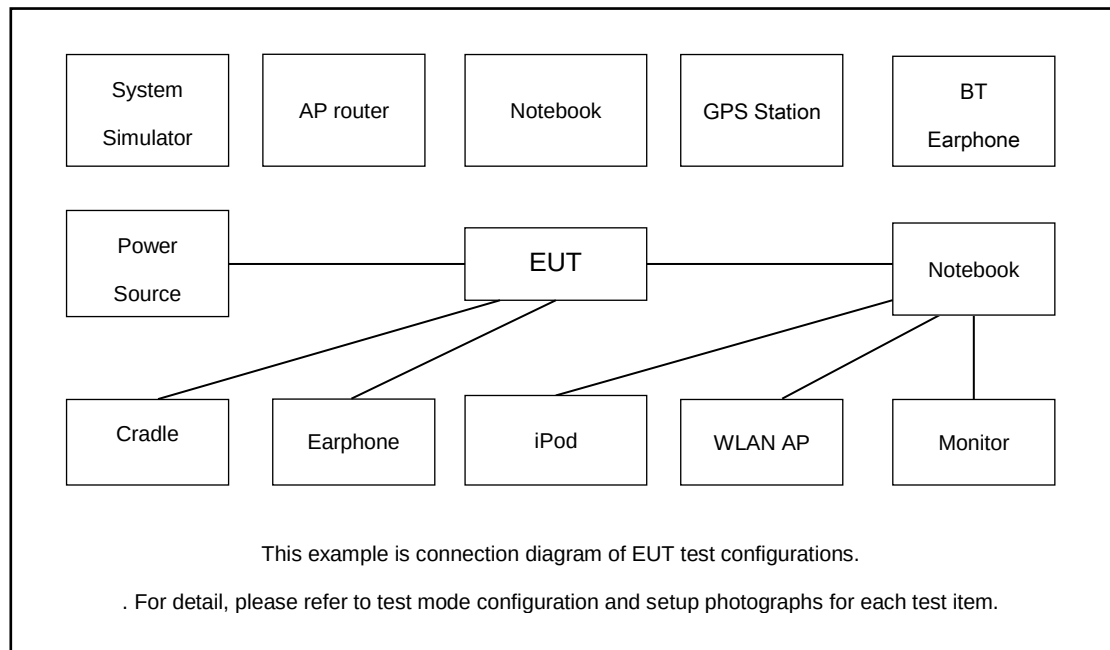
Radiated measurements are performed by rotating the EUT in three different orthogonal test planes to find the maximum emission.

Test Cases	Band	Bandwidth (MHz)	Modulation	RB #	Test Channel
		eg. 5M, 10M, 15M, 20M	eg. QPSK, 16QAM, 64QAM	1RB, Partial RB, Full RB	L/M/H
Max. Output Power	5G n77	20M, 30M, 40M, 50M, 60M, 70M, 80M, 90M, 100M	PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB, Partial RB, Full RB	L, M, H
	5G n78	20M, 30M, 40M, 50M, 60M, 70M, 80M, 90M, 100M	PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB, Partial RB, Full RB	L, M, H
Peak-to-Average Ratio	5G n78	20M	PI/2 BPSK, QPSK	1RB, Full RB	L, M, H
E.I.R.P	5G n77	20M, 30M, 40M, 50M, 60M, 70M, 80M, 90M, 100M	PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB, Partial RB, Full RB	L, M, H
	5G n78	20M, 30M, 40M, 50M, 60M, 70M, 80M, 90M, 100M	PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB, Partial RB, Full RB	L, M, H
26dB and 99% Bandwidth	5G n78	20M	PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM	Full RB	M
Conducted Band Edge	5G n78	20M, 60M, 100M	PI/2 BPSK, QPSK	1RB, Full RB	L, H
Conducted Spurious Emission	5G n78	20M, 60M, 100M	PI/2 BPSK, QPSK	1RB	L, M, H
Frequency Stability	5G n78	20M	QPSK	Full RB	M
Radiated Spurious Emission	5G n77	Worst case from maximum power			M
	5G n78	Worst case from maximum power			M

Note:

- The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.
- Based on engineering evaluation, only the worst modulations test results are shown in the report.

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	Power Supply	GWINSTEK	PSS-2002	N/A	N/A	Unshielded, 1.8 m
2.	LTE Base Station	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m

2.4 Measurement Results Explanation Example

For all conducted test items:

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

The spectrum analyzer offset is derived from RF cable loss.

Offset = RF cable loss.

Following shows an offset computation example with cable loss 4.8 dB.

Example :

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)}. \\ &= 4.8 \text{ (dB)} \end{aligned}$$

2.5 Frequency List of Low/Middle/High Channels

5G n77/n78 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
100	Channel	-	633334	-
	Frequency	-	3500.01	-
90	Channel	633000	633334	633666
	Frequency	3495	3500.01	3504.99
80	Channel	632668	633334	634000
	Frequency	3490.02	3500.01	3510
70	Channel	632334	633334	634332
	Frequency	3485.01	3500.01	3514.98
60	Channel	632000	633334	634666
	Frequency	3480	3500.01	3519.99
50	Channel	631668	633334	635000
	Frequency	3475.02	3500.01	3525
40	Channel	631334	633334	635332
	Frequency	3470.01	3500.01	3529.98
30	Channel	631000	633334	635666
	Frequency	3465	3500.01	3534.99
20	Channel	630668	633334	636000
	Frequency	3460.02	3500.01	3540

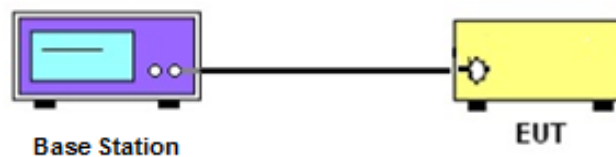
3 Conducted Test Items

3.1 Measuring Instruments

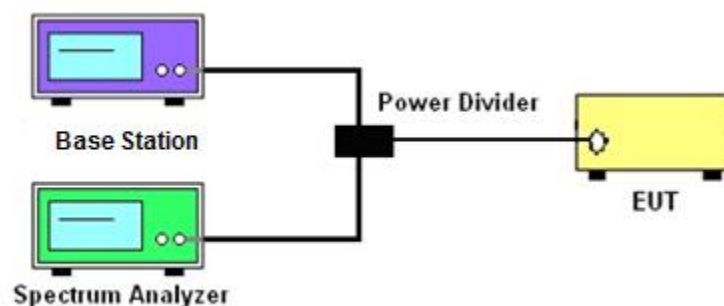
See list of measuring instruments of this test report.

3.2 Test Setup

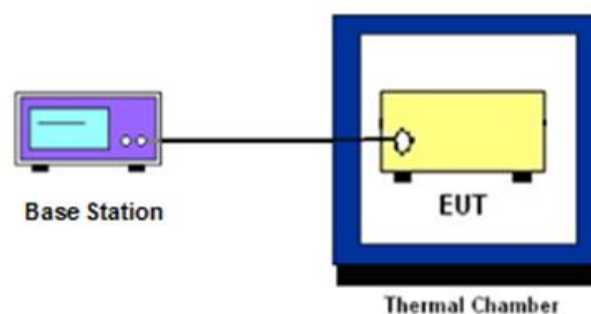
3.2.1 Conducted Output Power



3.2.2 Peak-to-Average Ratio, Occupied / 26dB Bandwidth ,Band-Edge and Conducted Spurious Emission



3.2.3 Frequency Stability



3.3 Test Result of Conducted Test

Please refer to Appendix A.

3.4 Conducted Output Power Measurement

3.4.1 Description of the Conducted Output Power Measurement

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

3.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.2
2. The transmitter output port was connected to the system simulator.
3. Set EUT at maximum power through the system simulator.
4. Select lowest, middle, and highest channels for each band and different modulation.
5. Measure and record the power level from the system simulator.

3.5 Peak-to-Average Ratio

3.5.1 Description of the PAR Measurement

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

3.5.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.2.3.4 (CCDF).
2. The EUT was connected to spectrum and system simulator via a power divider.
3. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
4. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
5. Record the deviation as Peak to Average Ratio.

3.6 EIRP

3.6.1 Description of EIRP Limit

§ 27.50 (k)(3)

Mobile devices are limited to 1Watt (30 dBm) EIRP. Mobile devices operating in these bands must employ a means for limiting power to the minimum necessary for successful communications

3.6.2 Test Procedures

1. According to KDB 412172 D01 Power Approach,
2. $EIRP = P_T + G_T - L_C$, $ERP = EIRP - 2.15$, where
 P_T = transmitter output power in dBm
 G_T = gain of the transmitting antenna in dBi
 L_C = signal attenuation in the connecting cable between the transmitter and antenna in dB

3.7 Occupied Bandwidth

3.7.1 Description of Occupied Bandwidth Measurement

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

The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

3.7.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.4
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be between two and five times the anticipated OBW.
4. The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
5. Set the detection mode to peak, and the trace mode to max hold.
6. Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace.
(this is the reference value)
7. Determine the “-26 dB down amplitude” as equal to (Reference Value – X).
8. Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the “-X dB down amplitude” determined in step 6. If a marker is below this “-X dB down amplitude” value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.
9. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.

3.8 Conducted Band Edge Measurement

3.8.1 Description of Conducted Band Edge Measurement

§ 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 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.

3.8.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The band edges of low and high channels for the highest RF powers were measured.
4. Set RBW $\geq 1\%$ EBW but limited to a maximum of 200 kHz in the 1MHz band immediately outside and adjacent to the band edge.
5. Beyond the 1 MHz and 5 MHz removed from the band edge, set RBW ≥ 500 KHz.
6. Beyond the 5 MHz removed from the band edge, set RBW = 1MHz.
7. Set spectrum analyzer with RMS detector.
8. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
9. Checked that all the results comply with the emission limit line.

3.9 Conducted Spurious Emission Measurement

3.9.1 Description of Conducted Spurious Emission Measurement

The power of any emission outside of the authorized operating frequency ranges shall not exceed -13 dBm/MHz.

It is measured by means of a calibrated spectrum analyzer and scanned from 9 kHz up to a frequency including its 10th harmonic.

3.9.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.
The path loss was compensated to the results for each measurement.
4. The middle channel for the highest RF power within the transmitting frequency was measured.
5. The conducted spurious emission for the whole frequency range was taken.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz.
7. Set spectrum analyzer with RMS detector.
8. Taking the record of maximum spurious emission.
9. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
10. Checked that all the results comply with the emission limit line.

3.10 Frequency Stability Measurement

3.10.1 Description of Frequency Stability Measurement

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.

3.10.2 Test Procedures for Temperature Variation

1. The testing follows ANSI C63.26 section 5.6.4
2. The EUT was set up in the thermal chamber and connected with the system simulator.
3. 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.
4. With power OFF, the temperature was raised in 10°C step up to 50°C. The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

3.10.3 Test Procedures for Voltage Variation

1. The testing follows ANSI C63.26 section 5.6.5.
2. The EUT was placed in a temperature chamber at 20±5°C and connected with the system simulator.
3. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value for other than hand carried battery equipment.
4. For hand carried, battery powered equipment, reduce the primary ac or dc supply voltage to the battery operating end point, which shall be specified by the manufacturer.
5. The variation in frequency was measured for the worst case.

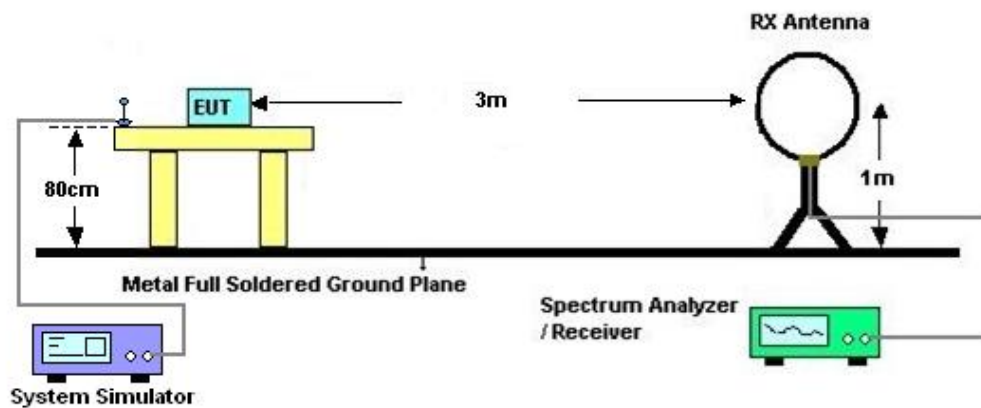
4 Radiated Test Items

4.1 Measuring Instruments

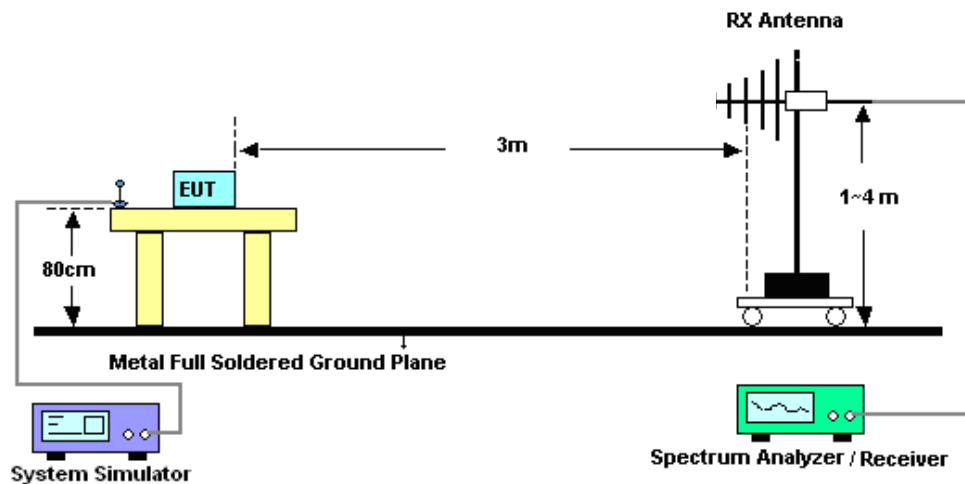
See list of measuring instruments of this test report.

4.2 Test Setup

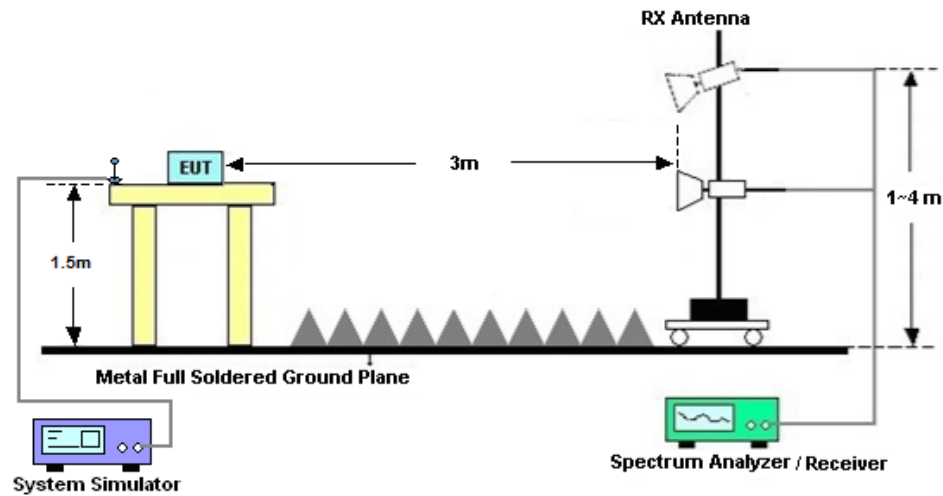
4.2.1 For radiated test below 30MHz



4.2.2 For radiated test from 30MHz to 1GHz



4.2.3 For radiated test above 1GHz



4.3 Test Result of Radiated Test

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

Please refer to Appendix B.

4.4 Radiated Spurious Emission Measurement

4.4.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI/TIA-603-E. The power of any emission outside of the authorized operating frequency ranges shall not exceed -13 dBm/MHz.

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

4.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.5
2. The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
6. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
7. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
8. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
9. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
$$\text{EIRP (dBm)} = \text{S.G. Power} - \text{Tx Cable Loss} + \text{Tx Antenna Gain}$$
$$\text{ERP (dBm)} = \text{EIRP} - 2.15$$
10. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 08, 2021	Nov. 10, 2021~ Nov. 19, 2021	Apr. 07, 2022	Conducted (TH01-SZ)
DC Power Supply	TTI	PL330P	290070	Max 32V , 3A	Oct. 25, 2021	Nov. 10, 2021~ Nov. 19, 2021	Oct. 24, 2022	Conducted (TH01-SZ)
Power Divider	TOJOIN	PS-2SM-04 265	60.06.020.007 7	0.4GHz~26.5GHz	Dec. 26, 2020	Nov. 10, 2021~ Nov. 19, 2021	Dec. 25, 2021	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 14, 2021	Nov. 10, 2021~ Nov. 19, 2021	Jul. 13, 2022	Conducted (TH01-SZ)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150244	10Hz~44G,MAX 30dB	Apr. 13, 2021	Nov. 15, 2021	Apr. 12, 2022	Radiation (03CH04-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Oct. 30, 2021	Nov. 15, 2021	Oct. 29, 2022	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	49922	30MHz-1GHz	May 30, 2021	Nov. 15, 2021	May 29, 2022	Radiation (03CH04-KS)
Horn Antenna	Schwarzbeck	BBHA9120D	1356	1GHz~18GHz	Apr. 18, 2021	Nov. 15, 2021	Apr. 17, 2022	Radiation (03CH04-KS)
SHF-EHF Horn	Com-power	AH-840	101070	18GHz~40GHz	Jan. 06, 2021	Nov. 15, 2021	Jan. 05, 2022	Radiation (03CH04-KS)
Amplifier	SONOMA	310N	187289	9KHz-1GHz	Jan. 06, 2021	Nov. 15, 2021	Jan. 05, 2022	Radiation (03CH04-KS)
Amplifier	MITEQ	EM18G40G GA	060728	18~40GHz	Jan. 07, 2021	Nov. 15, 2021	Jan. 06, 2022	Radiation (03CH04-KS)
high gain Amplifier	MITEQ	AMF-7D-00 101800-30-1 0P	2025788	1Ghz-18Ghz	Jan. 06, 2021	Nov. 15, 2021	Jan. 05, 2022	Radiation (03CH04-KS)
Amplifier	Keysight	83017A	MY57280106	500MHz~26.5GHz	Oct. 13, 2021	Nov. 15, 2021	Oct. 12, 2022	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Nov. 15, 2021	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Nov. 15, 2021	NCR	Radiation (03CH04-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Nov. 15, 2021	NCR	Radiation (03CH04-KS)

NCR: No Calibration Required

6 Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.26-2015. 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 Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	3.3dB
--	-------

Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	2.8dB
--	-------

----- THE END -----



Appendix A. Test Results of Conducted Test

Test Engineer :	Fly Liang	Temperature :	21~23°C
		Relative Humidity :	45~51%

FR1 N77

LTE Band: 41, LTE BW: 10M, LTE ARFCN: Mid

Transmitter Conducted Output Power And EIRP, ($G_T - L_C$)= -0.3dB

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	EIRP (dBm)	EIRP (W)
77	30	20	630668	3460.02	DFT-s-OFDM PI/2 BPSK	25@12	22.82	22.52	0.1786
77	30	20	630668	3460.02	DFT-s-OFDM PI/2 BPSK	1@1	22.8	22.5	0.1778
77	30	20	630668	3460.02	DFT-s-OFDM PI/2 BPSK	1@49	22.69	22.39	0.1734
77	30	20	630668	3460.02	DFT-s-OFDM QPSK	25@12	22.82	22.52	0.1786
77	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@1	22.83	22.53	0.1791
77	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@49	22.68	22.38	0.1730
77	30	20	630668	3460.02	DFT-s-OFDM 16 QAM	25@12	21.92	21.62	0.1452
77	30	20	630668	3460.02	DFT-s-OFDM 16 QAM	1@1	21.83	21.53	0.1422
77	30	20	630668	3460.02	DFT-s-OFDM 16 QAM	1@49	21.82	21.52	0.1419
77	30	20	630668	3460.02	DFT-s-OFDM 64 QAM	25@12	20.46	20.16	0.1038
77	30	20	630668	3460.02	DFT-s-OFDM 64 QAM	1@1	20.38	20.08	0.1019
77	30	20	630668	3460.02	DFT-s-OFDM 64 QAM	1@49	20.2	19.9	0.0977
77	30	20	630668	3460.02	DFT-s-OFDM 256 QAM	25@12	18.49	18.19	0.0659
77	30	20	630668	3460.02	DFT-s-OFDM 256 QAM	1@1	18.37	18.07	0.0641
77	30	20	630668	3460.02	DFT-s-OFDM 256 QAM	1@49	18.27	17.97	0.0627
77	30	20	630668	3460.02	CP-OFDM QPSK	25@12	21.44	21.14	0.1300
77	30	20	630668	3460.02	CP-OFDM QPSK	1@1	21.36	21.06	0.1276
77	30	20	630668	3460.02	CP-OFDM QPSK	1@49	21.32	21.02	0.1265
77	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	25@12	22.87	22.57	0.1807
77	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	23.01	22.71	0.1866
77	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@49	22.8	22.5	0.1778
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	25@12	22.83	22.53	0.1791
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@1	22.99	22.69	0.1858
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@49	22.76	22.46	0.1762
77	30	20	633334	3500.01	DFT-s-OFDM 16 QAM	25@12	22.02	21.72	0.1486
77	30	20	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	22.16	21.86	0.1535
77	30	20	633334	3500.01	DFT-s-OFDM 16 QAM	1@49	21.74	21.44	0.1393
77	30	20	633334	3500.01	DFT-s-OFDM 64 QAM	25@12	20.6	20.3	0.1072
77	30	20	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	20.79	20.49	0.1119

77	30	20	633334	3500.01	DFT-s-OFDM 64 QAM	1@49	20.65	20.35	0.1084
77	30	20	633334	3500.01	DFT-s-OFDM 256 QAM	25@12	18.48	18.18	0.0658
77	30	20	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	18.7	18.4	0.0692
77	30	20	633334	3500.01	DFT-s-OFDM 256 QAM	1@49	18.63	18.33	0.0681
77	30	20	633334	3500.01	CP-OFDM QPSK	25@12	21.53	21.23	0.1327
77	30	20	633334	3500.01	CP-OFDM QPSK	1@1	21.57	21.27	0.1340
77	30	20	633334	3500.01	CP-OFDM QPSK	1@49	21.45	21.15	0.1303
77	30	20	636000	3540	DFT-s-OFDM PI/2 BPSK	25@12	22.97	22.67	0.1849
77	30	20	636000	3540	DFT-s-OFDM PI/2 BPSK	1@1	22.99	22.69	0.1858
77	30	20	636000	3540	DFT-s-OFDM PI/2 BPSK	1@49	22.82	22.52	0.1786
77	30	20	636000	3540	DFT-s-OFDM QPSK	25@12	22.98	22.68	0.1854
77	30	20	636000	3540	DFT-s-OFDM QPSK	1@1	23.08	22.78	0.1897
77	30	20	636000	3540	DFT-s-OFDM QPSK	1@49	22.88	22.58	0.1811
77	30	20	636000	3540	DFT-s-OFDM 16 QAM	25@12	22.08	21.78	0.1507
77	30	20	636000	3540	DFT-s-OFDM 16 QAM	1@1	22.17	21.87	0.1538
77	30	20	636000	3540	DFT-s-OFDM 16 QAM	1@49	21.95	21.65	0.1462
77	30	20	636000	3540	DFT-s-OFDM 64 QAM	25@12	20.6	20.3	0.1072
77	30	20	636000	3540	DFT-s-OFDM 64 QAM	1@1	20.63	20.33	0.1079
77	30	20	636000	3540	DFT-s-OFDM 64 QAM	1@49	20.42	20.12	0.1028
77	30	20	636000	3540	DFT-s-OFDM 256 QAM	25@12	18.56	18.26	0.0670
77	30	20	636000	3540	DFT-s-OFDM 256 QAM	1@1	18.74	18.44	0.0698
77	30	20	636000	3540	DFT-s-OFDM 256 QAM	1@49	18.59	18.29	0.0675
77	30	20	636000	3540	CP-OFDM QPSK	25@12	21.59	21.29	0.1346
77	30	20	636000	3540	CP-OFDM QPSK	1@1	21.59	21.29	0.1346
77	30	20	636000	3540	CP-OFDM QPSK	1@49	21.64	21.34	0.1361
77	30	30	631000	3465	DFT-s-OFDM PI/2 BPSK	36@18	22.7	22.4	0.1738
77	30	30	631000	3465	DFT-s-OFDM PI/2 BPSK	1@1	22.96	22.66	0.1845
77	30	30	631000	3465	DFT-s-OFDM PI/2 BPSK	1@76	22.58	22.28	0.1690
77	30	30	631000	3465	DFT-s-OFDM QPSK	36@18	22.61	22.31	0.1702
77	30	30	631000	3465	DFT-s-OFDM QPSK	1@1	22.86	22.56	0.1803
77	30	30	631000	3465	DFT-s-OFDM QPSK	1@76	22.57	22.27	0.1687
77	30	30	631000	3465	DFT-s-OFDM 16 QAM	36@18	21.72	21.42	0.1387
77	30	30	631000	3465	DFT-s-OFDM 16 QAM	1@1	22.01	21.71	0.1483
77	30	30	631000	3465	DFT-s-OFDM 16 QAM	1@76	21.67	21.37	0.1371
77	30	30	631000	3465	DFT-s-OFDM 64 QAM	36@18	20.39	20.09	0.1021
77	30	30	631000	3465	DFT-s-OFDM 64 QAM	1@1	20.76	20.46	0.1112

77	30	30	631000	3465	DFT-s-OFDM 64 QAM	1@76	20.47	20.17	0.1040
77	30	30	631000	3465	DFT-s-OFDM 256 QAM	36@18	18.3	18	0.0631
77	30	30	631000	3465	DFT-s-OFDM 256 QAM	1@1	18.51	18.21	0.0662
77	30	30	631000	3465	DFT-s-OFDM 256 QAM	1@76	18.16	17.86	0.0611
77	30	30	631000	3465	CP-OFDM QPSK	39@19	21.36	21.06	0.1276
77	30	30	631000	3465	CP-OFDM QPSK	1@1	21.52	21.22	0.1324
77	30	30	631000	3465	CP-OFDM QPSK	1@76	21.21	20.91	0.1233
77	30	30	633334	3500.01	DFT-s-OFDM PI/2 BPSK	36@18	22.38	22.08	0.1614
77	30	30	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	22.62	22.32	0.1706
77	30	30	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@76	22.43	22.13	0.1633
77	30	30	633334	3500.01	DFT-s-OFDM QPSK	36@18	22.42	22.12	0.1629
77	30	30	633334	3500.01	DFT-s-OFDM QPSK	1@1	22.66	22.36	0.1722
77	30	30	633334	3500.01	DFT-s-OFDM QPSK	1@76	22.4	22.1	0.1622
77	30	30	633334	3500.01	DFT-s-OFDM 16 QAM	36@18	21.45	21.15	0.1303
77	30	30	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	21.62	21.32	0.1355
77	30	30	633334	3500.01	DFT-s-OFDM 16 QAM	1@76	21.43	21.13	0.1297
77	30	30	633334	3500.01	DFT-s-OFDM 64 QAM	36@18	19.99	19.69	0.0931
77	30	30	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	20.03	19.73	0.0940
77	30	30	633334	3500.01	DFT-s-OFDM 64 QAM	1@76	19.95	19.65	0.0923
77	30	30	633334	3500.01	DFT-s-OFDM 256 QAM	36@18	17.95	17.65	0.0582
77	30	30	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	18.13	17.83	0.0607
77	30	30	633334	3500.01	DFT-s-OFDM 256 QAM	1@76	17.98	17.68	0.0586
77	30	30	633334	3500.01	CP-OFDM QPSK	39@19	20.95	20.65	0.1161
77	30	30	633334	3500.01	CP-OFDM QPSK	1@1	21.3	21	0.1259
77	30	30	633334	3500.01	CP-OFDM QPSK	1@76	20.93	20.63	0.1156
77	30	30	635666	3534.99	DFT-s-OFDM PI/2 BPSK	36@18	22.51	22.21	0.1663
77	30	30	635666	3534.99	DFT-s-OFDM PI/2 BPSK	1@1	22.61	22.31	0.1702
77	30	30	635666	3534.99	DFT-s-OFDM PI/2 BPSK	1@76	22.29	21.99	0.1581
77	30	30	635666	3534.99	DFT-s-OFDM QPSK	36@18	22.44	22.14	0.1637
77	30	30	635666	3534.99	DFT-s-OFDM QPSK	1@1	22.6	22.3	0.1698
77	30	30	635666	3534.99	DFT-s-OFDM QPSK	1@76	22.34	22.04	0.1600
77	30	30	635666	3534.99	DFT-s-OFDM 16 QAM	36@18	21.59	21.29	0.1346
77	30	30	635666	3534.99	DFT-s-OFDM 16 QAM	1@1	21.61	21.31	0.1352
77	30	30	635666	3534.99	DFT-s-OFDM 16 QAM	1@76	21.37	21.07	0.1279
77	30	30	635666	3534.99	DFT-s-OFDM 64 QAM	36@18	20.07	19.77	0.0948
77	30	30	635666	3534.99	DFT-s-OFDM 64 QAM	1@1	20.11	19.81	0.0957

77	30	30	635666	3534.99	DFT-s-OFDM 64 QAM	1@76	19.86	19.56	0.0904
77	30	30	635666	3534.99	DFT-s-OFDM 256 QAM	36@18	18.1	17.8	0.0603
77	30	30	635666	3534.99	DFT-s-OFDM 256 QAM	1@1	18.17	17.87	0.0612
77	30	30	635666	3534.99	DFT-s-OFDM 256 QAM	1@76	17.98	17.68	0.0586
77	30	30	635666	3534.99	CP-OFDM QPSK	39@19	21.04	20.74	0.1186
77	30	30	635666	3534.99	CP-OFDM QPSK	1@1	21.19	20.89	0.1227
77	30	30	635666	3534.99	CP-OFDM QPSK	1@76	20.95	20.65	0.1161
77	30	40	631334	3470.01	DFT-s-OFDM PI/2 BPSK	50@25	22.82	22.52	0.1786
77	30	40	631334	3470.01	DFT-s-OFDM PI/2 BPSK	1@1	22.8	22.5	0.1778
77	30	40	631334	3470.01	DFT-s-OFDM PI/2 BPSK	1@104	22.62	22.32	0.1706
77	30	40	631334	3470.01	DFT-s-OFDM QPSK	50@25	22.72	22.42	0.1746
77	30	40	631334	3470.01	DFT-s-OFDM QPSK	1@1	22.91	22.61	0.1824
77	30	40	631334	3470.01	DFT-s-OFDM QPSK	1@104	22.57	22.27	0.1687
77	30	40	631334	3470.01	DFT-s-OFDM 16 QAM	50@25	21.73	21.43	0.1390
77	30	40	631334	3470.01	DFT-s-OFDM 16 QAM	1@1	21.98	21.68	0.1472
77	30	40	631334	3470.01	DFT-s-OFDM 16 QAM	1@104	21.65	21.35	0.1365
77	30	40	631334	3470.01	DFT-s-OFDM 64 QAM	50@25	20.38	20.08	0.1019
77	30	40	631334	3470.01	DFT-s-OFDM 64 QAM	1@1	20.28	19.98	0.0995
77	30	40	631334	3470.01	DFT-s-OFDM 64 QAM	1@104	19.99	19.69	0.0931
77	30	40	631334	3470.01	DFT-s-OFDM 256 QAM	50@25	18.35	18.05	0.0638
77	30	40	631334	3470.01	DFT-s-OFDM 256 QAM	1@1	18.52	18.22	0.0664
77	30	40	631334	3470.01	DFT-s-OFDM 256 QAM	1@104	18.26	17.96	0.0625
77	30	40	631334	3470.01	CP-OFDM QPSK	53@26	21.29	20.99	0.1256
77	30	40	631334	3470.01	CP-OFDM QPSK	1@1	21.47	21.17	0.1309
77	30	40	631334	3470.01	CP-OFDM QPSK	1@104	21.16	20.86	0.1219
77	30	40	633334	3500.01	DFT-s-OFDM PI/2 BPSK	50@25	22.49	22.19	0.1656
77	30	40	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	22.77	22.47	0.1766
77	30	40	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@104	22.47	22.17	0.1648
77	30	40	633334	3500.01	DFT-s-OFDM QPSK	50@25	22.44	22.14	0.1637
77	30	40	633334	3500.01	DFT-s-OFDM QPSK	1@1	22.66	22.36	0.1722
77	30	40	633334	3500.01	DFT-s-OFDM QPSK	1@104	22.44	22.14	0.1637
77	30	40	633334	3500.01	DFT-s-OFDM 16 QAM	50@25	21.51	21.21	0.1321
77	30	40	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	21.78	21.48	0.1406
77	30	40	633334	3500.01	DFT-s-OFDM 16 QAM	1@104	21.49	21.19	0.1315
77	30	40	633334	3500.01	DFT-s-OFDM 64 QAM	50@25	20	19.7	0.0933
77	30	40	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	20.07	19.77	0.0948

77	30	40	633334	3500.01	DFT-s-OFDM 64 QAM	1@104	19.98	19.68	0.0929
77	30	40	633334	3500.01	DFT-s-OFDM 256 QAM	50@25	18.08	17.78	0.0600
77	30	40	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	18.32	18.02	0.0634
77	30	40	633334	3500.01	DFT-s-OFDM 256 QAM	1@104	18.21	17.91	0.0618
77	30	40	633334	3500.01	CP-OFDM QPSK	53@26	20.98	20.68	0.1169
77	30	40	633334	3500.01	CP-OFDM QPSK	1@1	21.31	21.01	0.1262
77	30	40	633334	3500.01	CP-OFDM QPSK	1@104	21.09	20.79	0.1199
77	30	40	635332	3529.98	DFT-s-OFDM PI/2 BPSK	50@25	22.44	22.14	0.1637
77	30	40	635332	3529.98	DFT-s-OFDM PI/2 BPSK	1@1	22.65	22.35	0.1718
77	30	40	635332	3529.98	DFT-s-OFDM PI/2 BPSK	1@104	22.44	22.14	0.1637
77	30	40	635332	3529.98	DFT-s-OFDM QPSK	50@25	22.45	22.15	0.1641
77	30	40	635332	3529.98	DFT-s-OFDM QPSK	1@1	22.58	22.28	0.1690
77	30	40	635332	3529.98	DFT-s-OFDM QPSK	1@104	22.41	22.11	0.1626
77	30	40	635332	3529.98	DFT-s-OFDM 16 QAM	50@25	21.5	21.2	0.1318
77	30	40	635332	3529.98	DFT-s-OFDM 16 QAM	1@1	21.67	21.37	0.1371
77	30	40	635332	3529.98	DFT-s-OFDM 16 QAM	1@104	21.52	21.22	0.1324
77	30	40	635332	3529.98	DFT-s-OFDM 64 QAM	50@25	20.09	19.79	0.0953
77	30	40	635332	3529.98	DFT-s-OFDM 64 QAM	1@1	20.04	19.74	0.0942
77	30	40	635332	3529.98	DFT-s-OFDM 64 QAM	1@104	19.83	19.53	0.0897
77	30	40	635332	3529.98	DFT-s-OFDM 256 QAM	50@25	18.07	17.77	0.0598
77	30	40	635332	3529.98	DFT-s-OFDM 256 QAM	1@1	18.27	17.97	0.0627
77	30	40	635332	3529.98	DFT-s-OFDM 256 QAM	1@104	18.12	17.82	0.0605
77	30	40	635332	3529.98	CP-OFDM QPSK	53@26	21.14	20.84	0.1213
77	30	40	635332	3529.98	CP-OFDM QPSK	1@1	21.18	20.88	0.1225
77	30	40	635332	3529.98	CP-OFDM QPSK	1@104	21	20.7	0.1175
77	30	50	631668	3475.02	DFT-s-OFDM PI/2 BPSK	64@32	22.63	22.33	0.1710
77	30	50	631668	3475.02	DFT-s-OFDM PI/2 BPSK	1@1	22.8	22.5	0.1778
77	30	50	631668	3475.02	DFT-s-OFDM PI/2 BPSK	1@131	22.2	21.9	0.1549
77	30	50	631668	3475.02	DFT-s-OFDM QPSK	64@32	22.56	22.26	0.1683
77	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@1	22.72	22.42	0.1746
77	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@131	22.14	21.84	0.1528
77	30	50	631668	3475.02	DFT-s-OFDM 16 QAM	64@32	21.69	21.39	0.1377
77	30	50	631668	3475.02	DFT-s-OFDM 16 QAM	1@1	21.74	21.44	0.1393
77	30	50	631668	3475.02	DFT-s-OFDM 16 QAM	1@131	21.08	20.78	0.1197
77	30	50	631668	3475.02	DFT-s-OFDM 64 QAM	64@32	20.18	19.88	0.0973
77	30	50	631668	3475.02	DFT-s-OFDM 64 QAM	1@1	20.61	20.31	0.1074

77	30	50	631668	3475.02	DFT-s-OFDM 64 QAM	1@131	20.06	19.76	0.0946
77	30	50	631668	3475.02	DFT-s-OFDM 256 QAM	64@32	18.11	17.81	0.0604
77	30	50	631668	3475.02	DFT-s-OFDM 256 QAM	1@1	18.31	18.01	0.0632
77	30	50	631668	3475.02	DFT-s-OFDM 256 QAM	1@131	17.73	17.43	0.0553
77	30	50	631668	3475.02	CP-OFDM QPSK	67@33	21.16	20.86	0.1219
77	30	50	631668	3475.02	CP-OFDM QPSK	1@1	21.45	21.15	0.1303
77	30	50	631668	3475.02	CP-OFDM QPSK	1@131	20.79	20.49	0.1119
77	30	50	633334	3500.01	DFT-s-OFDM PI/2 BPSK	64@32	22.32	22.02	0.1592
77	30	50	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	22.7	22.4	0.1738
77	30	50	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@131	22.27	21.97	0.1574
77	30	50	633334	3500.01	DFT-s-OFDM QPSK	64@32	22.34	22.04	0.1600
77	30	50	633334	3500.01	DFT-s-OFDM QPSK	1@1	22.68	22.38	0.1730
77	30	50	633334	3500.01	DFT-s-OFDM QPSK	1@131	22.22	21.92	0.1556
77	30	50	633334	3500.01	DFT-s-OFDM 16 QAM	64@32	21.5	21.2	0.1318
77	30	50	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	21.65	21.35	0.1365
77	30	50	633334	3500.01	DFT-s-OFDM 16 QAM	1@131	21.24	20.94	0.1242
77	30	50	633334	3500.01	DFT-s-OFDM 64 QAM	64@32	19.95	19.65	0.0923
77	30	50	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	20.47	20.17	0.1040
77	30	50	633334	3500.01	DFT-s-OFDM 64 QAM	1@131	20.09	19.79	0.0953
77	30	50	633334	3500.01	DFT-s-OFDM 256 QAM	64@32	17.91	17.61	0.0577
77	30	50	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	18.28	17.98	0.0628
77	30	50	633334	3500.01	DFT-s-OFDM 256 QAM	1@131	17.8	17.5	0.0562
77	30	50	633334	3500.01	CP-OFDM QPSK	67@33	20.94	20.64	0.1159
77	30	50	633334	3500.01	CP-OFDM QPSK	1@1	21.36	21.06	0.1276
77	30	50	633334	3500.01	CP-OFDM QPSK	1@131	20.8	20.5	0.1122
77	30	50	635000	3525	DFT-s-OFDM PI/2 BPSK	64@32	22.44	22.14	0.1637
77	30	50	635000	3525	DFT-s-OFDM PI/2 BPSK	1@1	22.43	22.13	0.1633
77	30	50	635000	3525	DFT-s-OFDM PI/2 BPSK	1@131	22.08	21.78	0.1507
77	30	50	635000	3525	DFT-s-OFDM QPSK	64@32	22.46	22.16	0.1644
77	30	50	635000	3525	DFT-s-OFDM QPSK	1@1	22.44	22.14	0.1637
77	30	50	635000	3525	DFT-s-OFDM QPSK	1@131	22.12	21.82	0.1521
77	30	50	635000	3525	DFT-s-OFDM 16 QAM	64@32	21.47	21.17	0.1309
77	30	50	635000	3525	DFT-s-OFDM 16 QAM	1@1	21.43	21.13	0.1297
77	30	50	635000	3525	DFT-s-OFDM 16 QAM	1@131	21.09	20.79	0.1199
77	30	50	635000	3525	DFT-s-OFDM 64 QAM	64@32	19.98	19.68	0.0929
77	30	50	635000	3525	DFT-s-OFDM 64 QAM	1@1	20.3	20	0.1000

77	30	50	635000	3525	DFT-s-OFDM 64 QAM	1@131	19.97	19.67	0.0927
77	30	50	635000	3525	DFT-s-OFDM 256 QAM	64@32	17.86	17.56	0.0570
77	30	50	635000	3525	DFT-s-OFDM 256 QAM	1@1	17.99	17.69	0.0587
77	30	50	635000	3525	DFT-s-OFDM 256 QAM	1@131	17.68	17.38	0.0547
77	30	50	635000	3525	CP-OFDM QPSK	67@33	21.05	20.75	0.1189
77	30	50	635000	3525	CP-OFDM QPSK	1@1	21.16	20.86	0.1219
77	30	50	635000	3525	CP-OFDM QPSK	1@131	20.79	20.49	0.1119
77	30	60	632000	3480	DFT-s-OFDM PI/2 BPSK	81@40	22.66	22.36	0.1722
77	30	60	632000	3480	DFT-s-OFDM PI/2 BPSK	1@1	22.8	22.5	0.1778
77	30	60	632000	3480	DFT-s-OFDM PI/2 BPSK	1@160	22.31	22.01	0.1589
77	30	60	632000	3480	DFT-s-OFDM QPSK	81@40	22.61	22.31	0.1702
77	30	60	632000	3480	DFT-s-OFDM QPSK	1@1	22.78	22.48	0.1770
77	30	60	632000	3480	DFT-s-OFDM QPSK	1@160	22.25	21.95	0.1567
77	30	60	632000	3480	DFT-s-OFDM 16 QAM	81@40	21.67	21.37	0.1371
77	30	60	632000	3480	DFT-s-OFDM 16 QAM	1@1	21.87	21.57	0.1435
77	30	60	632000	3480	DFT-s-OFDM 16 QAM	1@160	21.41	21.11	0.1291
77	30	60	632000	3480	DFT-s-OFDM 64 QAM	81@40	20.19	19.89	0.0975
77	30	60	632000	3480	DFT-s-OFDM 64 QAM	1@1	20.46	20.16	0.1038
77	30	60	632000	3480	DFT-s-OFDM 64 QAM	1@160	19.86	19.56	0.0904
77	30	60	632000	3480	DFT-s-OFDM 256 QAM	81@40	18.08	17.78	0.0600
77	30	60	632000	3480	DFT-s-OFDM 256 QAM	1@1	18.4	18.1	0.0646
77	30	60	632000	3480	DFT-s-OFDM 256 QAM	1@160	17.77	17.47	0.0558
77	30	60	632000	3480	CP-OFDM QPSK	81@40	21.24	20.94	0.1242
77	30	60	632000	3480	CP-OFDM QPSK	1@1	21.36	21.06	0.1276
77	30	60	632000	3480	CP-OFDM QPSK	1@160	20.75	20.45	0.1109
77	30	60	633334	3500.01	DFT-s-OFDM PI/2 BPSK	81@40	22.4	22.1	0.1622
77	30	60	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	22.71	22.41	0.1742
77	30	60	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@160	22.2	21.9	0.1549
77	30	60	633334	3500.01	DFT-s-OFDM QPSK	81@40	22.38	22.08	0.1614
77	30	60	633334	3500.01	DFT-s-OFDM QPSK	1@1	22.59	22.29	0.1694
77	30	60	633334	3500.01	DFT-s-OFDM QPSK	1@160	22.13	21.83	0.1524
77	30	60	633334	3500.01	DFT-s-OFDM 16 QAM	81@40	21.4	21.1	0.1288
77	30	60	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	21.65	21.35	0.1365
77	30	60	633334	3500.01	DFT-s-OFDM 16 QAM	1@160	21.41	21.11	0.1291
77	30	60	633334	3500.01	DFT-s-OFDM 64 QAM	81@40	19.99	19.69	0.0931
77	30	60	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	20.36	20.06	0.1014

77	30	60	633334	3500.01	DFT-s-OFDM 64 QAM	1@160	19.95	19.65	0.0923
77	30	60	633334	3500.01	DFT-s-OFDM 256 QAM	81@40	18.01	17.71	0.0590
77	30	60	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	18.41	18.11	0.0647
77	30	60	633334	3500.01	DFT-s-OFDM 256 QAM	1@160	17.93	17.63	0.0579
77	30	60	633334	3500.01	CP-OFDM QPSK	81@40	20.96	20.66	0.1164
77	30	60	633334	3500.01	CP-OFDM QPSK	1@1	21.22	20.92	0.1236
77	30	60	633334	3500.01	CP-OFDM QPSK	1@160	20.83	20.53	0.1130
77	30	60	634666	3519.99	DFT-s-OFDM PI/2 BPSK	81@40	22.42	22.12	0.1629
77	30	60	634666	3519.99	DFT-s-OFDM PI/2 BPSK	1@1	22.49	22.19	0.1656
77	30	60	634666	3519.99	DFT-s-OFDM PI/2 BPSK	1@160	22.15	21.85	0.1531
77	30	60	634666	3519.99	DFT-s-OFDM QPSK	81@40	22.4	22.1	0.1622
77	30	60	634666	3519.99	DFT-s-OFDM QPSK	1@1	22.44	22.14	0.1637
77	30	60	634666	3519.99	DFT-s-OFDM QPSK	1@160	22.12	21.82	0.1521
77	30	60	634666	3519.99	DFT-s-OFDM 16 QAM	81@40	21.57	21.27	0.1340
77	30	60	634666	3519.99	DFT-s-OFDM 16 QAM	1@1	21.62	21.32	0.1355
77	30	60	634666	3519.99	DFT-s-OFDM 16 QAM	1@160	21.33	21.03	0.1268
77	30	60	634666	3519.99	DFT-s-OFDM 64 QAM	81@40	20.01	19.71	0.0935
77	30	60	634666	3519.99	DFT-s-OFDM 64 QAM	1@1	20	19.7	0.0933
77	30	60	634666	3519.99	DFT-s-OFDM 64 QAM	1@160	19.8	19.5	0.0891
77	30	60	634666	3519.99	DFT-s-OFDM 256 QAM	81@40	18.06	17.76	0.0597
77	30	60	634666	3519.99	DFT-s-OFDM 256 QAM	1@1	17.98	17.68	0.0586
77	30	60	634666	3519.99	DFT-s-OFDM 256 QAM	1@160	17.65	17.35	0.0543
77	30	60	634666	3519.99	CP-OFDM QPSK	81@40	21.02	20.72	0.1180
77	30	60	634666	3519.99	CP-OFDM QPSK	1@1	21.06	20.76	0.1191
77	30	60	634666	3519.99	CP-OFDM QPSK	1@160	20.83	20.53	0.1130
77	30	70	632334	3485.01	DFT-s-OFDM PI/2 BPSK	90@45	22.28	21.98	0.1578
77	30	70	632334	3485.01	DFT-s-OFDM PI/2 BPSK	1@1	22.63	22.33	0.1710
77	30	70	632334	3485.01	DFT-s-OFDM PI/2 BPSK	1@187	22.09	21.79	0.1510
77	30	70	632334	3485.01	DFT-s-OFDM QPSK	90@45	22.31	22.01	0.1589
77	30	70	632334	3485.01	DFT-s-OFDM QPSK	1@1	22.66	22.36	0.1722
77	30	70	632334	3485.01	DFT-s-OFDM QPSK	1@187	22.08	21.78	0.1507
77	30	70	632334	3485.01	DFT-s-OFDM 16 QAM	90@45	21.41	21.11	0.1291
77	30	70	632334	3485.01	DFT-s-OFDM 16 QAM	1@1	21.8	21.5	0.1413
77	30	70	632334	3485.01	DFT-s-OFDM 16 QAM	1@187	21.23	20.93	0.1239
77	30	70	632334	3485.01	DFT-s-OFDM 64 QAM	90@45	19.83	19.53	0.0897
77	30	70	632334	3485.01	DFT-s-OFDM 64 QAM	1@1	20.2	19.9	0.0977

77	30	70	632334	3485.01	DFT-s-OFDM 64 QAM	1@187	19.56	19.26	0.0843
77	30	70	632334	3485.01	DFT-s-OFDM 256 QAM	90@45	17.94	17.64	0.0581
77	30	70	632334	3485.01	DFT-s-OFDM 256 QAM	1@1	18.14	17.84	0.0608
77	30	70	632334	3485.01	DFT-s-OFDM 256 QAM	1@187	17.69	17.39	0.0548
77	30	70	632334	3485.01	CP-OFDM QPSK	95@47	20.84	20.54	0.1132
77	30	70	632334	3485.01	CP-OFDM QPSK	1@1	21.31	21.01	0.1262
77	30	70	632334	3485.01	CP-OFDM QPSK	1@187	20.73	20.43	0.1104
77	30	70	633334	3500.01	DFT-s-OFDM PI/2 BPSK	90@45	22.25	21.95	0.1567
77	30	70	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	22.71	22.41	0.1742
77	30	70	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@187	22.03	21.73	0.1489
77	30	70	633334	3500.01	DFT-s-OFDM QPSK	90@45	22.2	21.9	0.1549
77	30	70	633334	3500.01	DFT-s-OFDM QPSK	1@1	22.54	22.24	0.1675
77	30	70	633334	3500.01	DFT-s-OFDM QPSK	1@187	22.04	21.74	0.1493
77	30	70	633334	3500.01	DFT-s-OFDM 16 QAM	90@45	21.39	21.09	0.1285
77	30	70	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	21.72	21.42	0.1387
77	30	70	633334	3500.01	DFT-s-OFDM 16 QAM	1@187	20.99	20.69	0.1172
77	30	70	633334	3500.01	DFT-s-OFDM 64 QAM	90@45	19.8	19.5	0.0891
77	30	70	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	20.4	20.1	0.1023
77	30	70	633334	3500.01	DFT-s-OFDM 64 QAM	1@187	19.75	19.45	0.0881
77	30	70	633334	3500.01	DFT-s-OFDM 256 QAM	90@45	17.97	17.67	0.0585
77	30	70	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	18.26	17.96	0.0625
77	30	70	633334	3500.01	DFT-s-OFDM 256 QAM	1@187	17.58	17.28	0.0535
77	30	70	633334	3500.01	CP-OFDM QPSK	95@47	20.84	20.54	0.1132
77	30	70	633334	3500.01	CP-OFDM QPSK	1@1	21.25	20.95	0.1245
77	30	70	633334	3500.01	CP-OFDM QPSK	1@187	20.59	20.29	0.1069
77	30	70	634332	3514.98	DFT-s-OFDM PI/2 BPSK	90@45	22.28	21.98	0.1578
77	30	70	634332	3514.98	DFT-s-OFDM PI/2 BPSK	1@1	22.49	22.19	0.1656
77	30	70	634332	3514.98	DFT-s-OFDM PI/2 BPSK	1@187	22.03	21.73	0.1489
77	30	70	634332	3514.98	DFT-s-OFDM QPSK	90@45	22.31	22.01	0.1589
77	30	70	634332	3514.98	DFT-s-OFDM QPSK	1@1	22.38	22.08	0.1614
77	30	70	634332	3514.98	DFT-s-OFDM QPSK	1@187	21.96	21.66	0.1466
77	30	70	634332	3514.98	DFT-s-OFDM 16 QAM	90@45	21.4	21.1	0.1288
77	30	70	634332	3514.98	DFT-s-OFDM 16 QAM	1@1	21.7	21.4	0.1380
77	30	70	634332	3514.98	DFT-s-OFDM 16 QAM	1@187	21.22	20.92	0.1236
77	30	70	634332	3514.98	DFT-s-OFDM 64 QAM	90@45	19.79	19.49	0.0889
77	30	70	634332	3514.98	DFT-s-OFDM 64 QAM	1@1	20.11	19.81	0.0957

77	30	70	634332	3514.98	DFT-s-OFDM 64 QAM	1@187	19.71	19.41	0.0873
77	30	70	634332	3514.98	DFT-s-OFDM 256 QAM	90@45	17.9	17.6	0.0575
77	30	70	634332	3514.98	DFT-s-OFDM 256 QAM	1@1	17.9	17.6	0.0575
77	30	70	634332	3514.98	DFT-s-OFDM 256 QAM	1@187	17.6	17.3	0.0537
77	30	70	634332	3514.98	CP-OFDM QPSK	95@47	20.92	20.62	0.1153
77	30	70	634332	3514.98	CP-OFDM QPSK	1@1	21.16	20.86	0.1219
77	30	70	634332	3514.98	CP-OFDM QPSK	1@187	20.71	20.41	0.1099
77	30	80	632668	3490.02	DFT-s-OFDM PI/2 BPSK	108@54	22.32	22.02	0.1592
77	30	80	632668	3490.02	DFT-s-OFDM PI/2 BPSK	1@1	22.57	22.27	0.1687
77	30	80	632668	3490.02	DFT-s-OFDM PI/2 BPSK	1@215	22.1	21.8	0.1514
77	30	80	632668	3490.02	DFT-s-OFDM QPSK	108@54	22.29	21.99	0.1581
77	30	80	632668	3490.02	DFT-s-OFDM QPSK	1@1	22.61	22.31	0.1702
77	30	80	632668	3490.02	DFT-s-OFDM QPSK	1@215	22.06	21.76	0.1500
77	30	80	632668	3490.02	DFT-s-OFDM 16 QAM	108@54	21.36	21.06	0.1276
77	30	80	632668	3490.02	DFT-s-OFDM 16 QAM	1@1	21.58	21.28	0.1343
77	30	80	632668	3490.02	DFT-s-OFDM 16 QAM	1@215	21.07	20.77	0.1194
77	30	80	632668	3490.02	DFT-s-OFDM 64 QAM	108@54	19.96	19.66	0.0925
77	30	80	632668	3490.02	DFT-s-OFDM 64 QAM	1@1	20.26	19.96	0.0991
77	30	80	632668	3490.02	DFT-s-OFDM 64 QAM	1@215	19.79	19.49	0.0889
77	30	80	632668	3490.02	DFT-s-OFDM 256 QAM	108@54	17.87	17.57	0.0571
77	30	80	632668	3490.02	DFT-s-OFDM 256 QAM	1@1	18.32	18.02	0.0634
77	30	80	632668	3490.02	DFT-s-OFDM 256 QAM	1@215	17.7	17.4	0.0550
77	30	80	632668	3490.02	CP-OFDM QPSK	109@54	20.94	20.64	0.1159
77	30	80	632668	3490.02	CP-OFDM QPSK	1@1	21.22	20.92	0.1236
77	30	80	632668	3490.02	CP-OFDM QPSK	1@215	20.78	20.48	0.1117
77	30	80	633334	3500.01	DFT-s-OFDM PI/2 BPSK	108@54	22.33	22.03	0.1596
77	30	80	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	22.67	22.37	0.1726
77	30	80	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@215	22.07	21.77	0.1503
77	30	80	633334	3500.01	DFT-s-OFDM QPSK	108@54	22.3	22	0.1585
77	30	80	633334	3500.01	DFT-s-OFDM QPSK	1@1	22.69	22.39	0.1734
77	30	80	633334	3500.01	DFT-s-OFDM QPSK	1@215	22.08	21.78	0.1507
77	30	80	633334	3500.01	DFT-s-OFDM 16 QAM	108@54	21.38	21.08	0.1282
77	30	80	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	21.71	21.41	0.1384
77	30	80	633334	3500.01	DFT-s-OFDM 16 QAM	1@215	21.19	20.89	0.1227
77	30	80	633334	3500.01	DFT-s-OFDM 64 QAM	108@54	19.87	19.57	0.0906
77	30	80	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	20.53	20.23	0.1054

77	30	80	633334	3500.01	DFT-s-OFDM 64 QAM	1@215	19.9	19.6	0.0912
77	30	80	633334	3500.01	DFT-s-OFDM 256 QAM	108@54	17.9	17.6	0.0575
77	30	80	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	18.16	17.86	0.0611
77	30	80	633334	3500.01	DFT-s-OFDM 256 QAM	1@215	17.64	17.34	0.0542
77	30	80	633334	3500.01	CP-OFDM QPSK	109@54	20.83	20.53	0.1130
77	30	80	633334	3500.01	CP-OFDM QPSK	1@1	21.26	20.96	0.1247
77	30	80	633334	3500.01	CP-OFDM QPSK	1@215	20.64	20.34	0.1081
77	30	80	634000	3510	DFT-s-OFDM PI/2 BPSK	108@54	22.29	21.99	0.1581
77	30	80	634000	3510	DFT-s-OFDM PI/2 BPSK	1@1	22.53	22.23	0.1671
77	30	80	634000	3510	DFT-s-OFDM PI/2 BPSK	1@215	22.05	21.75	0.1496
77	30	80	634000	3510	DFT-s-OFDM QPSK	108@54	22.33	22.03	0.1596
77	30	80	634000	3510	DFT-s-OFDM QPSK	1@1	22.53	22.23	0.1671
77	30	80	634000	3510	DFT-s-OFDM QPSK	1@215	22.04	21.74	0.1493
77	30	80	634000	3510	DFT-s-OFDM 16 QAM	108@54	21.39	21.09	0.1285
77	30	80	634000	3510	DFT-s-OFDM 16 QAM	1@1	21.56	21.26	0.1337
77	30	80	634000	3510	DFT-s-OFDM 16 QAM	1@215	21.1	20.8	0.1202
77	30	80	634000	3510	DFT-s-OFDM 64 QAM	108@54	19.86	19.56	0.0904
77	30	80	634000	3510	DFT-s-OFDM 64 QAM	1@1	20.37	20.07	0.1016
77	30	80	634000	3510	DFT-s-OFDM 64 QAM	1@215	19.96	19.66	0.0925
77	30	80	634000	3510	DFT-s-OFDM 256 QAM	108@54	17.88	17.58	0.0573
77	30	80	634000	3510	DFT-s-OFDM 256 QAM	1@1	18.09	17.79	0.0601
77	30	80	634000	3510	DFT-s-OFDM 256 QAM	1@215	17.61	17.31	0.0538
77	30	80	634000	3510	CP-OFDM QPSK	109@54	20.82	20.52	0.1127
77	30	80	634000	3510	CP-OFDM QPSK	1@1	21.14	20.84	0.1213
77	30	80	634000	3510	CP-OFDM QPSK	1@215	20.61	20.31	0.1074
77	30	90	633000	3495	DFT-s-OFDM PI/2 BPSK	120@60	22.36	22.06	0.1607
77	30	90	633000	3495	DFT-s-OFDM PI/2 BPSK	1@1	22.64	22.34	0.1714
77	30	90	633000	3495	DFT-s-OFDM PI/2 BPSK	1@243	22.14	21.84	0.1528
77	30	90	633000	3495	DFT-s-OFDM QPSK	120@60	22.31	22.01	0.1589
77	30	90	633000	3495	DFT-s-OFDM QPSK	1@1	22.62	22.32	0.1706
77	30	90	633000	3495	DFT-s-OFDM QPSK	1@243	22.07	21.77	0.1503
77	30	90	633000	3495	DFT-s-OFDM 16 QAM	120@60	21.44	21.14	0.1300
77	30	90	633000	3495	DFT-s-OFDM 16 QAM	1@1	21.69	21.39	0.1377
77	30	90	633000	3495	DFT-s-OFDM 16 QAM	1@243	21.15	20.85	0.1216
77	30	90	633000	3495	DFT-s-OFDM 64 QAM	120@60	19.99	19.69	0.0931
77	30	90	633000	3495	DFT-s-OFDM 64 QAM	1@1	20.49	20.19	0.1045

77	30	90	633000	3495	DFT-s-OFDM 64 QAM	1@243	19.97	19.67	0.0927
77	30	90	633000	3495	DFT-s-OFDM 256 QAM	120@60	17.9	17.6	0.0575
77	30	90	633000	3495	DFT-s-OFDM 256 QAM	1@1	18.25	17.95	0.0624
77	30	90	633000	3495	DFT-s-OFDM 256 QAM	1@243	17.69	17.39	0.0548
77	30	90	633000	3495	CP-OFDM QPSK	123@61	20.89	20.59	0.1146
77	30	90	633000	3495	CP-OFDM QPSK	1@1	21.31	21.01	0.1262
77	30	90	633000	3495	CP-OFDM QPSK	1@243	20.87	20.57	0.1140
77	30	90	633334	3500.01	DFT-s-OFDM PI/2 BPSK	120@60	22.32	22.02	0.1592
77	30	90	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	22.66	22.36	0.1722
77	30	90	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@243	22.15	21.85	0.1531
77	30	90	633334	3500.01	DFT-s-OFDM QPSK	120@60	22.29	21.99	0.1581
77	30	90	633334	3500.01	DFT-s-OFDM QPSK	1@1	22.64	22.34	0.1714
77	30	90	633334	3500.01	DFT-s-OFDM QPSK	1@243	22.1	21.8	0.1514
77	30	90	633334	3500.01	DFT-s-OFDM 16 QAM	120@60	21.39	21.09	0.1285
77	30	90	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	21.71	21.41	0.1384
77	30	90	633334	3500.01	DFT-s-OFDM 16 QAM	1@243	21.14	20.84	0.1213
77	30	90	633334	3500.01	DFT-s-OFDM 64 QAM	120@60	20.01	19.71	0.0935
77	30	90	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	20.55	20.25	0.1059
77	30	90	633334	3500.01	DFT-s-OFDM 64 QAM	1@243	20	19.7	0.0933
77	30	90	633334	3500.01	DFT-s-OFDM 256 QAM	120@60	17.99	17.69	0.0587
77	30	90	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	18.25	17.95	0.0624
77	30	90	633334	3500.01	DFT-s-OFDM 256 QAM	1@243	17.84	17.54	0.0568
77	30	90	633334	3500.01	CP-OFDM QPSK	123@61	20.89	20.59	0.1146
77	30	90	633334	3500.01	CP-OFDM QPSK	1@1	21.4	21.1	0.1288
77	30	90	633334	3500.01	CP-OFDM QPSK	1@243	20.8	20.5	0.1122
77	30	90	633666	3504.99	DFT-s-OFDM PI/2 BPSK	120@60	22.35	22.05	0.1603
77	30	90	633666	3504.99	DFT-s-OFDM PI/2 BPSK	1@1	22.65	22.35	0.1718
77	30	90	633666	3504.99	DFT-s-OFDM PI/2 BPSK	1@243	22.05	21.75	0.1496
77	30	90	633666	3504.99	DFT-s-OFDM QPSK	120@60	22.37	22.07	0.1611
77	30	90	633666	3504.99	DFT-s-OFDM QPSK	1@1	22.6	22.3	0.1698
77	30	90	633666	3504.99	DFT-s-OFDM QPSK	1@243	22.1	21.8	0.1514
77	30	90	633666	3504.99	DFT-s-OFDM 16 QAM	120@60	21.49	21.19	0.1315
77	30	90	633666	3504.99	DFT-s-OFDM 16 QAM	1@1	21.62	21.32	0.1355
77	30	90	633666	3504.99	DFT-s-OFDM 16 QAM	1@243	21.19	20.89	0.1227
77	30	90	633666	3504.99	DFT-s-OFDM 64 QAM	120@60	19.96	19.66	0.0925
77	30	90	633666	3504.99	DFT-s-OFDM 64 QAM	1@1	20.29	19.99	0.0998

77	30	90	633666	3504.99	DFT-s-OFDM 64 QAM	1@243	19.67	19.37	0.0865
77	30	90	633666	3504.99	DFT-s-OFDM 256 QAM	120@60	18.02	17.72	0.0592
77	30	90	633666	3504.99	DFT-s-OFDM 256 QAM	1@1	18.4	18.1	0.0646
77	30	90	633666	3504.99	DFT-s-OFDM 256 QAM	1@243	17.8	17.5	0.0562
77	30	90	633666	3504.99	CP-OFDM QPSK	123@61	20.86	20.56	0.1138
77	30	90	633666	3504.99	CP-OFDM QPSK	1@1	21.32	21.02	0.1265
77	30	90	633666	3504.99	CP-OFDM QPSK	1@243	20.77	20.47	0.1114
77	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	135@67	22.86	22.56	0.1803
77	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	23.19	22.89	0.1945
77	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@271	23.03	22.73	0.1875
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	135@67	22.8	22.5	0.1778
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@1	23.14	22.84	0.1923
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@271	22.61	22.31	0.1702
77	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	135@67	21.44	21.14	0.1300
77	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	21.6	21.3	0.1349
77	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	1@271	21.13	20.83	0.1211
77	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	135@67	19.94	19.64	0.0920
77	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	20.53	20.23	0.1054
77	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	1@271	20.12	19.82	0.0959
77	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	135@67	17.93	17.63	0.0579
77	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	18.36	18.06	0.0640
77	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	1@271	17.91	17.61	0.0577
77	30	100	633334	3500.01	CP-OFDM QPSK	137@68	20.91	20.61	0.1151
77	30	100	633334	3500.01	CP-OFDM QPSK	1@1	21.29	20.99	0.1256
77	30	100	633334	3500.01	CP-OFDM QPSK	1@271	20.68	20.38	0.1091

FR1 N78

LTE Band: 41, LTE BW: 10M, LTE ARFCN: Mid

Transmitter Conducted Output Power And EIRP, ($G_T - L_C$)= -0.3dB

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	EIRP (dBm)	EIRP (W)
78	30	20	630668	3460.02	DFT-s-OFDM PI/2 BPSK	25@12	25.74	25.44	0.3499
78	30	20	630668	3460.02	DFT-s-OFDM PI/2 BPSK	1@1	25	24.7	0.2951
78	30	20	630668	3460.02	DFT-s-OFDM PI/2 BPSK	1@49	25.48	25.18	0.3296
78	30	20	630668	3460.02	DFT-s-OFDM QPSK	25@12	25.46	25.16	0.3281
78	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@1	24.88	24.58	0.2871
78	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@49	25.41	25.11	0.3243
78	30	20	630668	3460.02	DFT-s-OFDM 16 QAM	25@12	24.47	24.17	0.2612
78	30	20	630668	3460.02	DFT-s-OFDM 16 QAM	1@1	23.86	23.56	0.2270
78	30	20	630668	3460.02	DFT-s-OFDM 16 QAM	1@49	24.41	24.11	0.2576
78	30	20	630668	3460.02	DFT-s-OFDM 64 QAM	25@12	22.96	22.66	0.1845
78	30	20	630668	3460.02	DFT-s-OFDM 64 QAM	1@1	22.85	22.55	0.1799
78	30	20	630668	3460.02	DFT-s-OFDM 64 QAM	1@49	23.4	23.1	0.2042
78	30	20	630668	3460.02	DFT-s-OFDM 256 QAM	25@12	21.4	21.1	0.1288
78	30	20	630668	3460.02	DFT-s-OFDM 256 QAM	1@1	21.56	21.26	0.1337
78	30	20	630668	3460.02	DFT-s-OFDM 256 QAM	1@49	21.5	21.2	0.1318
78	30	20	630668	3460.02	CP-OFDM QPSK	25@12	23.7	23.4	0.2188
78	30	20	630668	3460.02	CP-OFDM QPSK	1@1	23.37	23.07	0.2028
78	30	20	630668	3460.02	CP-OFDM QPSK	1@49	23.98	23.68	0.2333
78	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	25@12	25.75	25.45	0.3508
78	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	25.89	25.59	0.3622
78	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@49	25.74	25.44	0.3499
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	25@12	25.79	25.49	0.3540
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.76	25.46	0.3516
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@49	25.73	25.43	0.3491
78	30	20	633334	3500.01	DFT-s-OFDM 16 QAM	25@12	25.3	25	0.3162
78	30	20	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.83	24.53	0.2838
78	30	20	633334	3500.01	DFT-s-OFDM 16 QAM	1@49	25.28	24.98	0.3148
78	30	20	633334	3500.01	DFT-s-OFDM 64 QAM	25@12	23.81	23.51	0.2244
78	30	20	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	23.77	23.47	0.2223

78	30	20	633334	3500.01	DFT-s-OFDM 64 QAM	1@49	23.73	23.43	0.2203
78	30	20	633334	3500.01	DFT-s-OFDM 256 QAM	25@12	21.91	21.61	0.1449
78	30	20	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	21.87	21.57	0.1435
78	30	20	633334	3500.01	DFT-s-OFDM 256 QAM	1@49	21.78	21.48	0.1406
78	30	20	633334	3500.01	CP-OFDM QPSK	25@12	24.56	24.26	0.2667
78	30	20	633334	3500.01	CP-OFDM QPSK	1@1	24.24	23.94	0.2477
78	30	20	633334	3500.01	CP-OFDM QPSK	1@49	24.73	24.43	0.2773
78	30	20	636000	3540	DFT-s-OFDM PI/2 BPSK	25@12	25.81	25.51	0.3556
78	30	20	636000	3540	DFT-s-OFDM PI/2 BPSK	1@1	25.85	25.55	0.3589
78	30	20	636000	3540	DFT-s-OFDM PI/2 BPSK	1@49	25.74	25.44	0.3499
78	30	20	636000	3540	DFT-s-OFDM QPSK	25@12	25.83	25.53	0.3573
78	30	20	636000	3540	DFT-s-OFDM QPSK	1@1	25.83	25.53	0.3573
78	30	20	636000	3540	DFT-s-OFDM QPSK	1@49	25.78	25.48	0.3532
78	30	20	636000	3540	DFT-s-OFDM 16 QAM	25@12	25.33	25.03	0.3184
78	30	20	636000	3540	DFT-s-OFDM 16 QAM	1@1	25.4	25.1	0.3236
78	30	20	636000	3540	DFT-s-OFDM 16 QAM	1@49	25.32	25.02	0.3177
78	30	20	636000	3540	DFT-s-OFDM 64 QAM	25@12	23.9	23.6	0.2291
78	30	20	636000	3540	DFT-s-OFDM 64 QAM	1@1	23.84	23.54	0.2259
78	30	20	636000	3540	DFT-s-OFDM 64 QAM	1@49	23.76	23.46	0.2218
78	30	20	636000	3540	DFT-s-OFDM 256 QAM	25@12	21.79	21.49	0.1409
78	30	20	636000	3540	DFT-s-OFDM 256 QAM	1@1	21.82	21.52	0.1419
78	30	20	636000	3540	DFT-s-OFDM 256 QAM	1@49	21.82	21.52	0.1419
78	30	20	636000	3540	CP-OFDM QPSK	25@12	24.81	24.51	0.2825
78	30	20	636000	3540	CP-OFDM QPSK	1@1	24.83	24.53	0.2838
78	30	20	636000	3540	CP-OFDM QPSK	1@49	24.79	24.49	0.2812
78	30	30	631000	3465	DFT-s-OFDM PI/2 BPSK	36@18	25.52	25.22	0.3327
78	30	30	631000	3465	DFT-s-OFDM PI/2 BPSK	1@1	25.4	25.1	0.3236
78	30	30	631000	3465	DFT-s-OFDM PI/2 BPSK	1@76	25.69	25.39	0.3459
78	30	30	631000	3465	DFT-s-OFDM QPSK	36@18	25.71	25.41	0.3475
78	30	30	631000	3465	DFT-s-OFDM QPSK	1@1	25.25	24.95	0.3126
78	30	30	631000	3465	DFT-s-OFDM QPSK	1@76	25.59	25.29	0.3381
78	30	30	631000	3465	DFT-s-OFDM 16 QAM	36@18	24.72	24.42	0.2767
78	30	30	631000	3465	DFT-s-OFDM 16 QAM	1@1	24.23	23.93	0.2472
78	30	30	631000	3465	DFT-s-OFDM 16 QAM	1@76	24.6	24.3	0.2692
78	30	30	631000	3465	DFT-s-OFDM 64 QAM	36@18	23.23	22.93	0.1963
78	30	30	631000	3465	DFT-s-OFDM 64 QAM	1@1	23.3	23	0.1995

78	30	30	631000	3465	DFT-s-OFDM 64 QAM	1@76	23.37	23.07	0.2028
78	30	30	631000	3465	DFT-s-OFDM 256 QAM	36@18	21.5	21.2	0.1318
78	30	30	631000	3465	DFT-s-OFDM 256 QAM	1@1	21.6	21.3	0.1349
78	30	30	631000	3465	DFT-s-OFDM 256 QAM	1@76	21.39	21.09	0.1285
78	30	30	631000	3465	CP-OFDM QPSK	39@19	24.08	23.78	0.2388
78	30	30	631000	3465	CP-OFDM QPSK	1@1	23.74	23.44	0.2208
78	30	30	631000	3465	CP-OFDM QPSK	1@76	24.01	23.71	0.2350
78	30	30	633334	3500.01	DFT-s-OFDM PI/2 BPSK	36@18	25.77	25.47	0.3524
78	30	30	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	25.84	25.54	0.3581
78	30	30	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@76	25.76	25.46	0.3516
78	30	30	633334	3500.01	DFT-s-OFDM QPSK	36@18	25.76	25.46	0.3516
78	30	30	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.68	25.38	0.3451
78	30	30	633334	3500.01	DFT-s-OFDM QPSK	1@76	25.77	25.47	0.3524
78	30	30	633334	3500.01	DFT-s-OFDM 16 QAM	36@18	24.82	24.52	0.2831
78	30	30	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.69	24.39	0.2748
78	30	30	633334	3500.01	DFT-s-OFDM 16 QAM	1@76	24.71	24.41	0.2761
78	30	30	633334	3500.01	DFT-s-OFDM 64 QAM	36@18	23.37	23.07	0.2028
78	30	30	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	23.36	23.06	0.2023
78	30	30	633334	3500.01	DFT-s-OFDM 64 QAM	1@76	23.22	22.92	0.1959
78	30	30	633334	3500.01	DFT-s-OFDM 256 QAM	36@18	21.26	20.96	0.1247
78	30	30	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	21.49	21.19	0.1315
78	30	30	633334	3500.01	DFT-s-OFDM 256 QAM	1@76	21.36	21.06	0.1276
78	30	30	633334	3500.01	CP-OFDM QPSK	39@19	24.31	24.01	0.2518
78	30	30	633334	3500.01	CP-OFDM QPSK	1@1	24.2	23.9	0.2455
78	30	30	633334	3500.01	CP-OFDM QPSK	1@76	24.19	23.89	0.2449
78	30	30	635666	3534.99	DFT-s-OFDM PI/2 BPSK	36@18	25.74	25.44	0.3499
78	30	30	635666	3534.99	DFT-s-OFDM PI/2 BPSK	1@1	25.83	25.53	0.3573
78	30	30	635666	3534.99	DFT-s-OFDM PI/2 BPSK	1@76	25.73	25.43	0.3491
78	30	30	635666	3534.99	DFT-s-OFDM QPSK	36@18	25.8	25.5	0.3548
78	30	30	635666	3534.99	DFT-s-OFDM QPSK	1@1	25.82	25.52	0.3565
78	30	30	635666	3534.99	DFT-s-OFDM QPSK	1@76	25.76	25.46	0.3516
78	30	30	635666	3534.99	DFT-s-OFDM 16 QAM	36@18	24.83	24.53	0.2838
78	30	30	635666	3534.99	DFT-s-OFDM 16 QAM	1@1	24.92	24.62	0.2897
78	30	30	635666	3534.99	DFT-s-OFDM 16 QAM	1@76	24.81	24.51	0.2825
78	30	30	635666	3534.99	DFT-s-OFDM 64 QAM	36@18	23.38	23.08	0.2032
78	30	30	635666	3534.99	DFT-s-OFDM 64 QAM	1@1	23.03	22.73	0.1875

78	30	30	635666	3534.99	DFT-s-OFDM 64 QAM	1@76	22.93	22.63	0.1832
78	30	30	635666	3534.99	DFT-s-OFDM 256 QAM	36@18	21.25	20.95	0.1245
78	30	30	635666	3534.99	DFT-s-OFDM 256 QAM	1@1	21.51	21.21	0.1321
78	30	30	635666	3534.99	DFT-s-OFDM 256 QAM	1@76	21.38	21.08	0.1282
78	30	30	635666	3534.99	CP-OFDM QPSK	39@19	24.28	23.98	0.2500
78	30	30	635666	3534.99	CP-OFDM QPSK	1@1	24.35	24.05	0.2541
78	30	30	635666	3534.99	CP-OFDM QPSK	1@76	24.23	23.93	0.2472
78	30	40	631334	3470.01	DFT-s-OFDM PI/2 BPSK	50@25	25.7	25.4	0.3467
78	30	40	631334	3470.01	DFT-s-OFDM PI/2 BPSK	1@1	25.18	24.88	0.3076
78	30	40	631334	3470.01	DFT-s-OFDM PI/2 BPSK	1@104	25.57	25.27	0.3365
78	30	40	631334	3470.01	DFT-s-OFDM QPSK	50@25	25.73	25.43	0.3491
78	30	40	631334	3470.01	DFT-s-OFDM QPSK	1@1	25.03	24.73	0.2972
78	30	40	631334	3470.01	DFT-s-OFDM QPSK	1@104	25.47	25.17	0.3289
78	30	40	631334	3470.01	DFT-s-OFDM 16 QAM	50@25	24.74	24.44	0.2780
78	30	40	631334	3470.01	DFT-s-OFDM 16 QAM	1@1	24.09	23.79	0.2393
78	30	40	631334	3470.01	DFT-s-OFDM 16 QAM	1@104	24.52	24.22	0.2642
78	30	40	631334	3470.01	DFT-s-OFDM 64 QAM	50@25	23.25	22.95	0.1972
78	30	40	631334	3470.01	DFT-s-OFDM 64 QAM	1@1	23.05	22.75	0.1884
78	30	40	631334	3470.01	DFT-s-OFDM 64 QAM	1@104	23.33	23.03	0.2009
78	30	40	631334	3470.01	DFT-s-OFDM 256 QAM	50@25	21.54	21.24	0.1330
78	30	40	631334	3470.01	DFT-s-OFDM 256 QAM	1@1	21.61	21.31	0.1352
78	30	40	631334	3470.01	DFT-s-OFDM 256 QAM	1@104	21.3	21	0.1259
78	30	40	631334	3470.01	CP-OFDM QPSK	53@26	24	23.7	0.2344
78	30	40	631334	3470.01	CP-OFDM QPSK	1@1	23.56	23.26	0.2118
78	30	40	631334	3470.01	CP-OFDM QPSK	1@104	23.97	23.67	0.2328
78	30	40	633334	3500.01	DFT-s-OFDM PI/2 BPSK	50@25	25.88	25.58	0.3614
78	30	40	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	25.61	25.31	0.3396
78	30	40	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@104	25.71	25.41	0.3475
78	30	40	633334	3500.01	DFT-s-OFDM QPSK	50@25	25.81	25.51	0.3556
78	30	40	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.48	25.18	0.3296
78	30	40	633334	3500.01	DFT-s-OFDM QPSK	1@104	25.73	25.43	0.3491
78	30	40	633334	3500.01	DFT-s-OFDM 16 QAM	50@25	24.82	24.52	0.2831
78	30	40	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.51	24.21	0.2636
78	30	40	633334	3500.01	DFT-s-OFDM 16 QAM	1@104	24.75	24.45	0.2786
78	30	40	633334	3500.01	DFT-s-OFDM 64 QAM	50@25	23.3	23	0.1995
78	30	40	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	23.45	23.15	0.2065

78	30	40	633334	3500.01	DFT-s-OFDM 64 QAM	1@104	23.22	22.92	0.1959
78	30	40	633334	3500.01	DFT-s-OFDM 256 QAM	50@25	21.29	20.99	0.1256
78	30	40	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	21.53	21.23	0.1327
78	30	40	633334	3500.01	DFT-s-OFDM 256 QAM	1@104	21.28	20.98	0.1253
78	30	40	633334	3500.01	CP-OFDM QPSK	53@26	24.28	23.98	0.2500
78	30	40	633334	3500.01	CP-OFDM QPSK	1@1	23.97	23.67	0.2328
78	30	40	633334	3500.01	CP-OFDM QPSK	1@104	24.26	23.96	0.2489
78	30	40	635332	3529.98	DFT-s-OFDM PI/2 BPSK	50@25	25.79	25.49	0.3540
78	30	40	635332	3529.98	DFT-s-OFDM PI/2 BPSK	1@1	25.93	25.63	0.3656
78	30	40	635332	3529.98	DFT-s-OFDM PI/2 BPSK	1@104	25.78	25.48	0.3532
78	30	40	635332	3529.98	DFT-s-OFDM QPSK	50@25	25.81	25.51	0.3556
78	30	40	635332	3529.98	DFT-s-OFDM QPSK	1@1	25.91	25.61	0.3639
78	30	40	635332	3529.98	DFT-s-OFDM QPSK	1@104	25.79	25.49	0.3540
78	30	40	635332	3529.98	DFT-s-OFDM 16 QAM	50@25	24.75	24.45	0.2786
78	30	40	635332	3529.98	DFT-s-OFDM 16 QAM	1@1	24.91	24.61	0.2891
78	30	40	635332	3529.98	DFT-s-OFDM 16 QAM	1@104	24.75	24.45	0.2786
78	30	40	635332	3529.98	DFT-s-OFDM 64 QAM	50@25	23.3	23	0.1995
78	30	40	635332	3529.98	DFT-s-OFDM 64 QAM	1@1	23.4	23.1	0.2042
78	30	40	635332	3529.98	DFT-s-OFDM 64 QAM	1@104	23.22	22.92	0.1959
78	30	40	635332	3529.98	DFT-s-OFDM 256 QAM	50@25	21.28	20.98	0.1253
78	30	40	635332	3529.98	DFT-s-OFDM 256 QAM	1@1	21.57	21.27	0.1340
78	30	40	635332	3529.98	DFT-s-OFDM 256 QAM	1@104	21.37	21.07	0.1279
78	30	40	635332	3529.98	CP-OFDM QPSK	53@26	24.25	23.95	0.2483
78	30	40	635332	3529.98	CP-OFDM QPSK	1@1	24.43	24.13	0.2588
78	30	40	635332	3529.98	CP-OFDM QPSK	1@104	24.29	23.99	0.2506
78	30	50	631668	3475.02	DFT-s-OFDM PI/2 BPSK	64@32	25.86	25.56	0.3597
78	30	50	631668	3475.02	DFT-s-OFDM PI/2 BPSK	1@1	25.1	24.8	0.3020
78	30	50	631668	3475.02	DFT-s-OFDM PI/2 BPSK	1@131	25.57	25.27	0.3365
78	30	50	631668	3475.02	DFT-s-OFDM QPSK	64@32	25.71	25.41	0.3475
78	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@1	25	24.7	0.2951
78	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@131	25.45	25.15	0.3273
78	30	50	631668	3475.02	DFT-s-OFDM 16 QAM	64@32	24.73	24.43	0.2773
78	30	50	631668	3475.02	DFT-s-OFDM 16 QAM	1@1	24.01	23.71	0.2350
78	30	50	631668	3475.02	DFT-s-OFDM 16 QAM	1@131	24.53	24.23	0.2649
78	30	50	631668	3475.02	DFT-s-OFDM 64 QAM	64@32	23.24	22.94	0.1968
78	30	50	631668	3475.02	DFT-s-OFDM 64 QAM	1@1	22.96	22.66	0.1845

78	30	50	631668	3475.02	DFT-s-OFDM 64 QAM	1@131	22.98	22.68	0.1854
78	30	50	631668	3475.02	DFT-s-OFDM 256 QAM	64@32	21.35	21.05	0.1274
78	30	50	631668	3475.02	DFT-s-OFDM 256 QAM	1@1	21.3	21	0.1259
78	30	50	631668	3475.02	DFT-s-OFDM 256 QAM	1@131	21.04	20.74	0.1186
78	30	50	631668	3475.02	CP-OFDM QPSK	67@33	23.97	23.67	0.2328
78	30	50	631668	3475.02	CP-OFDM QPSK	1@1	23.46	23.16	0.2070
78	30	50	631668	3475.02	CP-OFDM QPSK	1@131	24.05	23.75	0.2371
78	30	50	633334	3500.01	DFT-s-OFDM PI/2 BPSK	64@32	25.69	25.39	0.3459
78	30	50	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	25.54	25.24	0.3342
78	30	50	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@131	25.62	25.32	0.3404
78	30	50	633334	3500.01	DFT-s-OFDM QPSK	64@32	25.69	25.39	0.3459
78	30	50	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.42	25.12	0.3251
78	30	50	633334	3500.01	DFT-s-OFDM QPSK	1@131	25.55	25.25	0.3350
78	30	50	633334	3500.01	DFT-s-OFDM 16 QAM	64@32	24.66	24.36	0.2729
78	30	50	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.48	24.18	0.2618
78	30	50	633334	3500.01	DFT-s-OFDM 16 QAM	1@131	24.58	24.28	0.2679
78	30	50	633334	3500.01	DFT-s-OFDM 64 QAM	64@32	23.13	22.83	0.1919
78	30	50	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	23.28	22.98	0.1986
78	30	50	633334	3500.01	DFT-s-OFDM 64 QAM	1@131	23.01	22.71	0.1866
78	30	50	633334	3500.01	DFT-s-OFDM 256 QAM	64@32	21.12	20.82	0.1208
78	30	50	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	21.42	21.12	0.1294
78	30	50	633334	3500.01	DFT-s-OFDM 256 QAM	1@131	21.18	20.88	0.1225
78	30	50	633334	3500.01	CP-OFDM QPSK	67@33	24.17	23.87	0.2438
78	30	50	633334	3500.01	CP-OFDM QPSK	1@1	23.88	23.58	0.2280
78	30	50	633334	3500.01	CP-OFDM QPSK	1@131	24.08	23.78	0.2388
78	30	50	635000	3525	DFT-s-OFDM PI/2 BPSK	64@32	25.72	25.42	0.3483
78	30	50	635000	3525	DFT-s-OFDM PI/2 BPSK	1@1	25.61	25.31	0.3396
78	30	50	635000	3525	DFT-s-OFDM PI/2 BPSK	1@131	25.46	25.16	0.3281
78	30	50	635000	3525	DFT-s-OFDM QPSK	64@32	25.74	25.44	0.3499
78	30	50	635000	3525	DFT-s-OFDM QPSK	1@1	25.66	25.36	0.3436
78	30	50	635000	3525	DFT-s-OFDM QPSK	1@131	25.5	25.2	0.3311
78	30	50	635000	3525	DFT-s-OFDM 16 QAM	64@32	24.71	24.41	0.2761
78	30	50	635000	3525	DFT-s-OFDM 16 QAM	1@1	24.67	24.37	0.2735
78	30	50	635000	3525	DFT-s-OFDM 16 QAM	1@131	24.52	24.22	0.2642
78	30	50	635000	3525	DFT-s-OFDM 64 QAM	64@32	23.26	22.96	0.1977
78	30	50	635000	3525	DFT-s-OFDM 64 QAM	1@1	23.12	22.82	0.1914

78	30	50	635000	3525	DFT-s-OFDM 64 QAM	1@131	22.94	22.64	0.1837
78	30	50	635000	3525	DFT-s-OFDM 256 QAM	64@32	21.2	20.9	0.1230
78	30	50	635000	3525	DFT-s-OFDM 256 QAM	1@1	21.26	20.96	0.1247
78	30	50	635000	3525	DFT-s-OFDM 256 QAM	1@131	21.06	20.76	0.1191
78	30	50	635000	3525	CP-OFDM QPSK	67@33	24.24	23.94	0.2477
78	30	50	635000	3525	CP-OFDM QPSK	1@1	24.14	23.84	0.2421
78	30	50	635000	3525	CP-OFDM QPSK	1@131	24.08	23.78	0.2388
78	30	60	632000	3480	DFT-s-OFDM PI/2 BPSK	81@40	25.83	25.53	0.3573
78	30	60	632000	3480	DFT-s-OFDM PI/2 BPSK	1@1	25	24.7	0.2951
78	30	60	632000	3480	DFT-s-OFDM PI/2 BPSK	1@160	25.51	25.21	0.3319
78	30	60	632000	3480	DFT-s-OFDM QPSK	81@40	25.71	25.41	0.3475
78	30	60	632000	3480	DFT-s-OFDM QPSK	1@1	24.84	24.54	0.2844
78	30	60	632000	3480	DFT-s-OFDM QPSK	1@160	25.47	25.17	0.3289
78	30	60	632000	3480	DFT-s-OFDM 16 QAM	81@40	24.7	24.4	0.2754
78	30	60	632000	3480	DFT-s-OFDM 16 QAM	1@1	23.8	23.5	0.2239
78	30	60	632000	3480	DFT-s-OFDM 16 QAM	1@160	24.4	24.1	0.2570
78	30	60	632000	3480	DFT-s-OFDM 64 QAM	81@40	23.24	22.94	0.1968
78	30	60	632000	3480	DFT-s-OFDM 64 QAM	1@1	22.53	22.23	0.1671
78	30	60	632000	3480	DFT-s-OFDM 64 QAM	1@160	22.65	22.35	0.1718
78	30	60	632000	3480	DFT-s-OFDM 256 QAM	81@40	21.34	21.04	0.1271
78	30	60	632000	3480	DFT-s-OFDM 256 QAM	1@1	21.41	21.11	0.1291
78	30	60	632000	3480	DFT-s-OFDM 256 QAM	1@160	21.13	20.83	0.1211
78	30	60	632000	3480	CP-OFDM QPSK	81@40	23.96	23.66	0.2323
78	30	60	632000	3480	CP-OFDM QPSK	1@1	23.32	23.02	0.2004
78	30	60	632000	3480	CP-OFDM QPSK	1@160	24.05	23.75	0.2371
78	30	60	633334	3500.01	DFT-s-OFDM PI/2 BPSK	81@40	25.68	25.38	0.3451
78	30	60	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	25.41	25.11	0.3243
78	30	60	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@160	25.43	25.13	0.3258
78	30	60	633334	3500.01	DFT-s-OFDM QPSK	81@40	25.7	25.4	0.3467
78	30	60	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.25	24.95	0.3126
78	30	60	633334	3500.01	DFT-s-OFDM QPSK	1@160	25.49	25.19	0.3304
78	30	60	633334	3500.01	DFT-s-OFDM 16 QAM	81@40	24.66	24.36	0.2729
78	30	60	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.24	23.94	0.2477
78	30	60	633334	3500.01	DFT-s-OFDM 16 QAM	1@160	24.52	24.22	0.2642
78	30	60	633334	3500.01	DFT-s-OFDM 64 QAM	81@40	23.19	22.89	0.1945
78	30	60	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	22.97	22.67	0.1849

78	30	60	633334	3500.01	DFT-s-OFDM 64 QAM	1@160	22.64	22.34	0.1714
78	30	60	633334	3500.01	DFT-s-OFDM 256 QAM	81@40	21.19	20.89	0.1227
78	30	60	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	21.56	21.26	0.1337
78	30	60	633334	3500.01	DFT-s-OFDM 256 QAM	1@160	21.01	20.71	0.1178
78	30	60	633334	3500.01	CP-OFDM QPSK	81@40	24.19	23.89	0.2449
78	30	60	633334	3500.01	CP-OFDM QPSK	1@1	23.75	23.45	0.2213
78	30	60	633334	3500.01	CP-OFDM QPSK	1@160	23.93	23.63	0.2307
78	30	60	634666	3519.99	DFT-s-OFDM PI/2 BPSK	81@40	25.74	25.44	0.3499
78	30	60	634666	3519.99	DFT-s-OFDM PI/2 BPSK	1@1	25.65	25.35	0.3428
78	30	60	634666	3519.99	DFT-s-OFDM PI/2 BPSK	1@160	25.5	25.2	0.3311
78	30	60	634666	3519.99	DFT-s-OFDM QPSK	81@40	25.75	25.45	0.3508
78	30	60	634666	3519.99	DFT-s-OFDM QPSK	1@1	25.5	25.2	0.3311
78	30	60	634666	3519.99	DFT-s-OFDM QPSK	1@160	25.54	25.24	0.3342
78	30	60	634666	3519.99	DFT-s-OFDM 16 QAM	81@40	24.72	24.42	0.2767
78	30	60	634666	3519.99	DFT-s-OFDM 16 QAM	1@1	24.54	24.24	0.2655
78	30	60	634666	3519.99	DFT-s-OFDM 16 QAM	1@160	24.42	24.12	0.2582
78	30	60	634666	3519.99	DFT-s-OFDM 64 QAM	81@40	23.18	22.88	0.1941
78	30	60	634666	3519.99	DFT-s-OFDM 64 QAM	1@1	22.89	22.59	0.1816
78	30	60	634666	3519.99	DFT-s-OFDM 64 QAM	1@160	22.62	22.32	0.1706
78	30	60	634666	3519.99	DFT-s-OFDM 256 QAM	81@40	21.22	20.92	0.1236
78	30	60	634666	3519.99	DFT-s-OFDM 256 QAM	1@1	21.2	20.9	0.1230
78	30	60	634666	3519.99	DFT-s-OFDM 256 QAM	1@160	21.12	20.82	0.1208
78	30	60	634666	3519.99	CP-OFDM QPSK	81@40	24.25	23.95	0.2483
78	30	60	634666	3519.99	CP-OFDM QPSK	1@1	24.01	23.71	0.2350
78	30	60	634666	3519.99	CP-OFDM QPSK	1@160	23.98	23.68	0.2333
78	30	70	632334	3485.01	DFT-s-OFDM PI/2 BPSK	90@45	25.69	25.39	0.3459
78	30	70	632334	3485.01	DFT-s-OFDM PI/2 BPSK	1@1	25.25	24.95	0.3126
78	30	70	632334	3485.01	DFT-s-OFDM PI/2 BPSK	1@187	25.46	25.16	0.3281
78	30	70	632334	3485.01	DFT-s-OFDM QPSK	90@45	25.69	25.39	0.3459
78	30	70	632334	3485.01	DFT-s-OFDM QPSK	1@1	25.14	24.84	0.3048
78	30	70	632334	3485.01	DFT-s-OFDM QPSK	1@187	25.41	25.11	0.3243
78	30	70	632334	3485.01	DFT-s-OFDM 16 QAM	90@45	24.71	24.41	0.2761
78	30	70	632334	3485.01	DFT-s-OFDM 16 QAM	1@1	24.1	23.8	0.2399
78	30	70	632334	3485.01	DFT-s-OFDM 16 QAM	1@187	24.37	24.07	0.2553
78	30	70	632334	3485.01	DFT-s-OFDM 64 QAM	90@45	23.19	22.89	0.1945
78	30	70	632334	3485.01	DFT-s-OFDM 64 QAM	1@1	22.82	22.52	0.1786

78	30	70	632334	3485.01	DFT-s-OFDM 64 QAM	1@187	22.56	22.26	0.1683
78	30	70	632334	3485.01	DFT-s-OFDM 256 QAM	90@45	21.18	20.88	0.1225
78	30	70	632334	3485.01	DFT-s-OFDM 256 QAM	1@1	21.33	21.03	0.1268
78	30	70	632334	3485.01	DFT-s-OFDM 256 QAM	1@187	21.12	20.82	0.1208
78	30	70	632334	3485.01	CP-OFDM QPSK	95@47	24.15	23.85	0.2427
78	30	70	632334	3485.01	CP-OFDM QPSK	1@1	23.6	23.3	0.2138
78	30	70	632334	3485.01	CP-OFDM QPSK	1@187	24	23.7	0.2344
78	30	70	633334	3500.01	DFT-s-OFDM PI/2 BPSK	90@45	25.55	25.25	0.3350
78	30	70	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	25.56	25.26	0.3357
78	30	70	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@187	25.36	25.06	0.3206
78	30	70	633334	3500.01	DFT-s-OFDM QPSK	90@45	25.56	25.26	0.3357
78	30	70	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.43	25.13	0.3258
78	30	70	633334	3500.01	DFT-s-OFDM QPSK	1@187	25.32	25.02	0.3177
78	30	70	633334	3500.01	DFT-s-OFDM 16 QAM	90@45	24.57	24.27	0.2673
78	30	70	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.52	24.22	0.2642
78	30	70	633334	3500.01	DFT-s-OFDM 16 QAM	1@187	24.22	23.92	0.2466
78	30	70	633334	3500.01	DFT-s-OFDM 64 QAM	90@45	23.08	22.78	0.1897
78	30	70	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	23.05	22.75	0.1884
78	30	70	633334	3500.01	DFT-s-OFDM 64 QAM	1@187	22.51	22.21	0.1663
78	30	70	633334	3500.01	DFT-s-OFDM 256 QAM	90@45	21.11	20.81	0.1205
78	30	70	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	21.4	21.1	0.1288
78	30	70	633334	3500.01	DFT-s-OFDM 256 QAM	1@187	20.87	20.57	0.1140
78	30	70	633334	3500.01	CP-OFDM QPSK	95@47	24.09	23.79	0.2393
78	30	70	633334	3500.01	CP-OFDM QPSK	1@1	23.97	23.67	0.2328
78	30	70	633334	3500.01	CP-OFDM QPSK	1@187	23.88	23.58	0.2280
78	30	70	634332	3514.98	DFT-s-OFDM PI/2 BPSK	90@45	25.57	25.27	0.3365
78	30	70	634332	3514.98	DFT-s-OFDM PI/2 BPSK	1@1	25.77	25.47	0.3524
78	30	70	634332	3514.98	DFT-s-OFDM PI/2 BPSK	1@187	25.38	25.08	0.3221
78	30	70	634332	3514.98	DFT-s-OFDM QPSK	90@45	25.58	25.28	0.3373
78	30	70	634332	3514.98	DFT-s-OFDM QPSK	1@1	25.64	25.34	0.3420
78	30	70	634332	3514.98	DFT-s-OFDM QPSK	1@187	25.34	25.04	0.3192
78	30	70	634332	3514.98	DFT-s-OFDM 16 QAM	90@45	24.58	24.28	0.2679
78	30	70	634332	3514.98	DFT-s-OFDM 16 QAM	1@1	24.63	24.33	0.2710
78	30	70	634332	3514.98	DFT-s-OFDM 16 QAM	1@187	24.31	24.01	0.2518
78	30	70	634332	3514.98	DFT-s-OFDM 64 QAM	90@45	23.05	22.75	0.1884
78	30	70	634332	3514.98	DFT-s-OFDM 64 QAM	1@1	23.01	22.71	0.1866

78	30	70	634332	3514.98	DFT-s-OFDM 64 QAM	1@187	22.58	22.28	0.1690
78	30	70	634332	3514.98	DFT-s-OFDM 256 QAM	90@45	21.07	20.77	0.1194
78	30	70	634332	3514.98	DFT-s-OFDM 256 QAM	1@1	21.33	21.03	0.1268
78	30	70	634332	3514.98	DFT-s-OFDM 256 QAM	1@187	20.9	20.6	0.1148
78	30	70	634332	3514.98	CP-OFDM QPSK	95@47	24.07	23.77	0.2382
78	30	70	634332	3514.98	CP-OFDM QPSK	1@1	24.17	23.87	0.2438
78	30	70	634332	3514.98	CP-OFDM QPSK	1@187	23.93	23.63	0.2307
78	30	80	632668	3490.02	DFT-s-OFDM PI/2 BPSK	108@54	25.76	25.46	0.3516
78	30	80	632668	3490.02	DFT-s-OFDM PI/2 BPSK	1@1	25.11	24.81	0.3027
78	30	80	632668	3490.02	DFT-s-OFDM PI/2 BPSK	1@215	25.42	25.12	0.3251
78	30	80	632668	3490.02	DFT-s-OFDM QPSK	108@54	25.63	25.33	0.3412
78	30	80	632668	3490.02	DFT-s-OFDM QPSK	1@1	24.95	24.65	0.2917
78	30	80	632668	3490.02	DFT-s-OFDM QPSK	1@215	25.31	25.01	0.3170
78	30	80	632668	3490.02	DFT-s-OFDM 16 QAM	108@54	24.65	24.35	0.2723
78	30	80	632668	3490.02	DFT-s-OFDM 16 QAM	1@1	23.95	23.65	0.2317
78	30	80	632668	3490.02	DFT-s-OFDM 16 QAM	1@215	24.32	24.02	0.2523
78	30	80	632668	3490.02	DFT-s-OFDM 64 QAM	108@54	23.16	22.86	0.1932
78	30	80	632668	3490.02	DFT-s-OFDM 64 QAM	1@1	22.95	22.65	0.1841
78	30	80	632668	3490.02	DFT-s-OFDM 64 QAM	1@215	22.84	22.54	0.1795
78	30	80	632668	3490.02	DFT-s-OFDM 256 QAM	108@54	21.14	20.84	0.1213
78	30	80	632668	3490.02	DFT-s-OFDM 256 QAM	1@1	21.25	20.95	0.1245
78	30	80	632668	3490.02	DFT-s-OFDM 256 QAM	1@215	20.99	20.69	0.1172
78	30	80	632668	3490.02	CP-OFDM QPSK	109@54	24.05	23.75	0.2371
78	30	80	632668	3490.02	CP-OFDM QPSK	1@1	23.47	23.17	0.2075
78	30	80	632668	3490.02	CP-OFDM QPSK	1@215	24.05	23.75	0.2371
78	30	80	633334	3500.01	DFT-s-OFDM PI/2 BPSK	108@54	25.6	25.3	0.3388
78	30	80	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	25.44	25.14	0.3266
78	30	80	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@215	25.34	25.04	0.3192
78	30	80	633334	3500.01	DFT-s-OFDM QPSK	108@54	25.59	25.29	0.3381
78	30	80	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.33	25.03	0.3184
78	30	80	633334	3500.01	DFT-s-OFDM QPSK	1@215	25.35	25.05	0.3199
78	30	80	633334	3500.01	DFT-s-OFDM 16 QAM	108@54	24.55	24.25	0.2661
78	30	80	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.32	24.02	0.2523
78	30	80	633334	3500.01	DFT-s-OFDM 16 QAM	1@215	24.3	24	0.2512
78	30	80	633334	3500.01	DFT-s-OFDM 64 QAM	108@54	23.15	22.85	0.1928
78	30	80	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	23.31	23.01	0.2000

78	30	80	633334	3500.01	DFT-s-OFDM 64 QAM	1@215	22.82	22.52	0.1786
78	30	80	633334	3500.01	DFT-s-OFDM 256 QAM	108@54	21.01	20.71	0.1178
78	30	80	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	21.41	21.11	0.1291
78	30	80	633334	3500.01	DFT-s-OFDM 256 QAM	1@215	20.95	20.65	0.1161
78	30	80	633334	3500.01	CP-OFDM QPSK	109@54	24.04	23.74	0.2366
78	30	80	633334	3500.01	CP-OFDM QPSK	1@1	23.84	23.54	0.2259
78	30	80	633334	3500.01	CP-OFDM QPSK	1@215	23.83	23.53	0.2254
78	30	80	634000	3510	DFT-s-OFDM PI/2 BPSK	108@54	25.56	25.26	0.3357
78	30	80	634000	3510	DFT-s-OFDM PI/2 BPSK	1@1	25.61	25.31	0.3396
78	30	80	634000	3510	DFT-s-OFDM PI/2 BPSK	1@215	25.36	25.06	0.3206
78	30	80	634000	3510	DFT-s-OFDM QPSK	108@54	25.59	25.29	0.3381
78	30	80	634000	3510	DFT-s-OFDM QPSK	1@1	25.45	25.15	0.3273
78	30	80	634000	3510	DFT-s-OFDM QPSK	1@215	25.36	25.06	0.3206
78	30	80	634000	3510	DFT-s-OFDM 16 QAM	108@54	24.53	24.23	0.2649
78	30	80	634000	3510	DFT-s-OFDM 16 QAM	1@1	24.43	24.13	0.2588
78	30	80	634000	3510	DFT-s-OFDM 16 QAM	1@215	24.28	23.98	0.2500
78	30	80	634000	3510	DFT-s-OFDM 64 QAM	108@54	23.07	22.77	0.1892
78	30	80	634000	3510	DFT-s-OFDM 64 QAM	1@1	23.29	22.99	0.1991
78	30	80	634000	3510	DFT-s-OFDM 64 QAM	1@215	22.82	22.52	0.1786
78	30	80	634000	3510	DFT-s-OFDM 256 QAM	108@54	21.04	20.74	0.1186
78	30	80	634000	3510	DFT-s-OFDM 256 QAM	1@1	21.47	21.17	0.1309
78	30	80	634000	3510	DFT-s-OFDM 256 QAM	1@215	20.93	20.63	0.1156
78	30	80	634000	3510	CP-OFDM QPSK	109@54	24.07	23.77	0.2382
78	30	80	634000	3510	CP-OFDM QPSK	1@1	23.96	23.66	0.2323
78	30	80	634000	3510	CP-OFDM QPSK	1@215	23.96	23.66	0.2323
78	30	90	633000	3495	DFT-s-OFDM PI/2 BPSK	120@60	25.61	25.31	0.3396
78	30	90	633000	3495	DFT-s-OFDM PI/2 BPSK	1@1	25.02	24.72	0.2965
78	30	90	633000	3495	DFT-s-OFDM PI/2 BPSK	1@243	25.39	25.09	0.3228
78	30	90	633000	3495	DFT-s-OFDM QPSK	120@60	25.57	25.27	0.3365
78	30	90	633000	3495	DFT-s-OFDM QPSK	1@1	24.87	24.57	0.2864
78	30	90	633000	3495	DFT-s-OFDM QPSK	1@243	25.39	25.09	0.3228
78	30	90	633000	3495	DFT-s-OFDM 16 QAM	120@60	24.59	24.29	0.2685
78	30	90	633000	3495	DFT-s-OFDM 16 QAM	1@1	23.83	23.53	0.2254
78	30	90	633000	3495	DFT-s-OFDM 16 QAM	1@243	24.32	24.02	0.2523
78	30	90	633000	3495	DFT-s-OFDM 64 QAM	120@60	23.1	22.8	0.1905
78	30	90	633000	3495	DFT-s-OFDM 64 QAM	1@1	22.31	22.01	0.1589

78	30	90	633000	3495	DFT-s-OFDM 64 QAM	1@243	22.82	22.52	0.1786
78	30	90	633000	3495	DFT-s-OFDM 256 QAM	120@60	21.12	20.82	0.1208
78	30	90	633000	3495	DFT-s-OFDM 256 QAM	1@1	20.89	20.59	0.1146
78	30	90	633000	3495	DFT-s-OFDM 256 QAM	1@243	20.89	20.59	0.1146
78	30	90	633000	3495	CP-OFDM QPSK	123@61	24	23.7	0.2344
78	30	90	633000	3495	CP-OFDM QPSK	1@1	23.35	23.05	0.2018
78	30	90	633000	3495	CP-OFDM QPSK	1@243	23.83	23.53	0.2254
78	30	90	633334	3500.01	DFT-s-OFDM PI/2 BPSK	120@60	25.6	25.3	0.3388
78	30	90	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	25.08	24.78	0.3006
78	30	90	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@243	25.4	25.1	0.3236
78	30	90	633334	3500.01	DFT-s-OFDM QPSK	120@60	25.58	25.28	0.3373
78	30	90	633334	3500.01	DFT-s-OFDM QPSK	1@1	24.96	24.66	0.2924
78	30	90	633334	3500.01	DFT-s-OFDM QPSK	1@243	25.36	25.06	0.3206
78	30	90	633334	3500.01	DFT-s-OFDM 16 QAM	120@60	24.63	24.33	0.2710
78	30	90	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	23.95	23.65	0.2317
78	30	90	633334	3500.01	DFT-s-OFDM 16 QAM	1@243	24.3	24	0.2512
78	30	90	633334	3500.01	DFT-s-OFDM 64 QAM	120@60	23.1	22.8	0.1905
78	30	90	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	22.44	22.14	0.1637
78	30	90	633334	3500.01	DFT-s-OFDM 64 QAM	1@243	22.88	22.58	0.1811
78	30	90	633334	3500.01	DFT-s-OFDM 256 QAM	120@60	21.02	20.72	0.1180
78	30	90	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	20.99	20.69	0.1172
78	30	90	633334	3500.01	DFT-s-OFDM 256 QAM	1@243	20.9	20.6	0.1148
78	30	90	633334	3500.01	CP-OFDM QPSK	123@61	24.07	23.77	0.2382
78	30	90	633334	3500.01	CP-OFDM QPSK	1@1	23.47	23.17	0.2075
78	30	90	633334	3500.01	CP-OFDM QPSK	1@243	23.98	23.68	0.2333
78	30	90	633666	3504.99	DFT-s-OFDM PI/2 BPSK	120@60	25.64	25.34	0.3420
78	30	90	633666	3504.99	DFT-s-OFDM PI/2 BPSK	1@1	25.35	25.05	0.3199
78	30	90	633666	3504.99	DFT-s-OFDM PI/2 BPSK	1@243	25.43	25.13	0.3258
78	30	90	633666	3504.99	DFT-s-OFDM QPSK	120@60	25.61	25.31	0.3396
78	30	90	633666	3504.99	DFT-s-OFDM QPSK	1@1	25.25	24.95	0.3126
78	30	90	633666	3504.99	DFT-s-OFDM QPSK	1@243	25.39	25.09	0.3228
78	30	90	633666	3504.99	DFT-s-OFDM 16 QAM	120@60	24.6	24.3	0.2692
78	30	90	633666	3504.99	DFT-s-OFDM 16 QAM	1@1	24.24	23.94	0.2477
78	30	90	633666	3504.99	DFT-s-OFDM 16 QAM	1@243	24.35	24.05	0.2541
78	30	90	633666	3504.99	DFT-s-OFDM 64 QAM	120@60	23.06	22.76	0.1888
78	30	90	633666	3504.99	DFT-s-OFDM 64 QAM	1@1	22.72	22.42	0.1746

78	30	90	633666	3504.99	DFT-s-OFDM 64 QAM	1@243	22.86	22.56	0.1803
78	30	90	633666	3504.99	DFT-s-OFDM 256 QAM	120@60	21.04	20.74	0.1186
78	30	90	633666	3504.99	DFT-s-OFDM 256 QAM	1@1	21.3	21	0.1259
78	30	90	633666	3504.99	DFT-s-OFDM 256 QAM	1@243	20.91	20.61	0.1151
78	30	90	633666	3504.99	CP-OFDM QPSK	123@61	24.09	23.79	0.2393
78	30	90	633666	3504.99	CP-OFDM QPSK	1@1	23.76	23.46	0.2218
78	30	90	633666	3504.99	CP-OFDM QPSK	1@243	23.88	23.58	0.2280
78	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	135@67	25.94	25.64	0.3664
78	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	24.82	24.52	0.2831
78	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@271	25.4	25.1	0.3236
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	135@67	25.59	25.29	0.3381
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@1	24.69	24.39	0.2748
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@271	25.42	25.12	0.3251
78	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	135@67	24.6	24.3	0.2692
78	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	23.72	23.42	0.2198
78	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	1@271	24.4	24.1	0.2570
78	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	135@67	23.14	22.84	0.1923
78	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	21.87	21.57	0.1435
78	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	1@271	22.61	22.31	0.1702
78	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	135@67	21.1	20.8	0.1202
78	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	21.26	20.96	0.1247
78	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	1@271	20.89	20.59	0.1146
78	30	100	633334	3500.01	CP-OFDM QPSK	137@68	24.06	23.76	0.2377
78	30	100	633334	3500.01	CP-OFDM QPSK	1@1	23.18	22.88	0.1941
78	30	100	633334	3500.01	CP-OFDM QPSK	1@271	23.85	23.55	0.2265

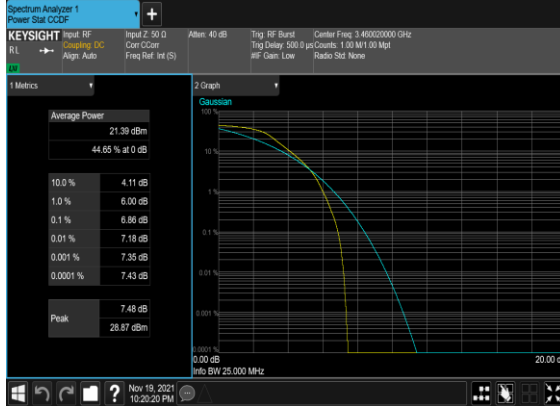
Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
78	30	20	633334	3500.01	CP-OFDM QPSK	51@0	-0.00243	PASS	NV
78	30	20	633334	3500.01	CP-OFDM QPSK	51@0	-0.00378	PASS	LV
78	30	20	633334	3500.01	CP-OFDM QPSK	51@0	-0.0048	PASS	HV
78	30	20	633334	3500.01	CP-OFDM QPSK	51@0	-0.00249	PASS	-30°C
78	30	20	633334	3500.01	CP-OFDM QPSK	51@0	-0.00384	PASS	-20°C
78	30	20	633334	3500.01	CP-OFDM QPSK	51@0	-0.00575	PASS	-10°C
78	30	20	633334	3500.01	CP-OFDM QPSK	51@0	-0.00618	PASS	0°C
78	30	20	633334	3500.01	CP-OFDM QPSK	51@0	-0.00459	PASS	10°C
78	30	20	633334	3500.01	CP-OFDM QPSK	51@0	-0.00306	PASS	20°C
78	30	20	633334	3500.01	CP-OFDM QPSK	51@0	-0.00665	PASS	30°C
78	30	20	633334	3500.01	CP-OFDM QPSK	51@0	-0.0048	PASS	40°C
78	30	20	633334	3500.01	CP-OFDM QPSK	51@0	-0.00627	PASS	50°C

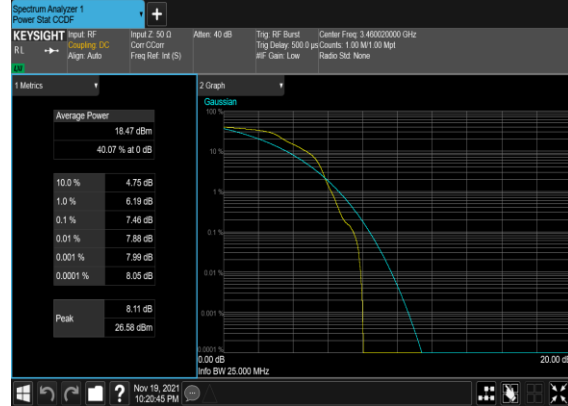
Peak to Average Radio

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
78	30	20	630668	3460.02	DFT-s-OFDM PI/2 BPSK	50@0	6.86	13	PASS
78	30	20	630668	3460.02	DFT-s-OFDM PI/2 BPSK	1@0	7.46	13	PASS
78	30	20	630668	3460.02	DFT-s-OFDM QPSK	50@0	7.63	13	PASS
78	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@0	7.65	13	PASS
78	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	50@0	6.93	13	PASS
78	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@0	7.3	13	PASS
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	7.71	13	PASS
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@0	7.32	13	PASS
78	30	20	636000	3540.0	DFT-s-OFDM PI/2 BPSK	50@0	6.98	13	PASS
78	30	20	636000	3540.0	DFT-s-OFDM PI/2 BPSK	1@0	7.3	13	PASS
78	30	20	636000	3540.0	DFT-s-OFDM QPSK	50@0	7.77	13	PASS
78	30	20	636000	3540.0	DFT-s-OFDM QPSK	1@0	7.31	13	PASS

B41_N78(20M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_Low_CH



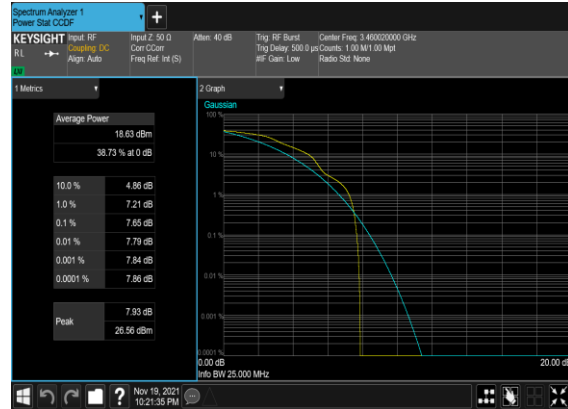
B41_N78(20M)_DFT-s-OFDM_PI_2-
BPSK_Edge_1RB_Left_Low_CH



B41_N78(20M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH



B41_N78(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



B41_N78(20M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_Mid_CH



B41_N78(20M)_DFT-s-OFDM_PI_2-
BPSK_Edge_1RB_Left_Mid_CH



Spectrum Analyzer 1
Power Stat CC20

KEYSIGHT
BL →

Input 2: 50.0
Corr CCo
Freq Ref: Int (S)

Align: Auto

Trig: RF Burst
Trig Delay: 500.0 μs Counts
RF Cam: Low
Radio Std: None

Center Freq: 3.5000E10000 GHz

1 Metrics

Average Power

21.53 dBm
40.99 % at 0 dB

10.0 %	4.42 dB
1.0 %	6.78 dB
0.1 %	7.21 dB
0.01 %	8.00 dB
0.001 %	8.20 dB
0.0001 %	8.41 dB

Peak

8.49 dB
30.02 dBm

2 Graph

Gaussian

100.00 dBm

10.00 dBm
1.00 dBm
0.10 dBm
0.01 dBm
0.001 dBm
0.0001 dBm

0.00 dBm

0.00 MHz
25.00 MHz
20.00 MHz

Info BW 25.000 MHz

Now 19, 2021
10:23:01 PM

Spectrum Analyzer 1
Power Stat CCDF

KEYSIGHT Input RF Channel DC
Align: Auto Input: 20.0 dBm Cent Freq: 3.500010000 GHz
RF Delay: 500.0 µs Counts 1.00 M 1.00 Mpt
RF Cam: Low Radio Std: None

1 Metrics

Average Power	
	19.06 dBm
	38.76 % at 0 dB
10.0 %	4.87 dB
1.0 %	6.99 dB
0.1 %	7.32 dB
0.01 %	7.45 dB
0.001 %	7.51 dB
0.0001 %	7.52 dB
Peak	
	7.57 dB
	26.63 dBm

2 Graph
Gaussian

0.00 dB 20.00 dB
0.00 MHz 28.00 MHz

The screenshot displays the Keysight Spectrum Analyzer 1 software interface. The top status bar indicates the device is a Power Stat OCDF. The main display area is divided into two sections: a left-hand data table and a right-hand plot area.

Left Panel Data:

Average Power	
	21.84 dBm
	44.65 % at 0 dB
10.0 %	4.11 dB
1.0 %	6.01 dB
0.1 %	8.98 dB
0.01 %	7.41 dB
0.001 %	7.60 dB
0.0001 %	7.63 dB
Peak	
	7.67 dB
	29.51 dBm

Right Panel Plot:

The plot area shows a graph of Power Spectral Density (PSD) versus Frequency. The y-axis is logarithmic, ranging from 0.0001% to 10.0000%. The x-axis is linear, ranging from 0.00 dB to 20.00 MHz. A yellow curve represents the noise floor, which is labeled "Gaussian" in the top left corner of the plot area. The curve starts at approximately 10.0000% at 0.00 MHz and decreases as frequency increases, reaching approximately 0.0001% at 20.00 MHz. The plot is titled "2 Graph" and "Gaussian".

Top Panel Controls:

The top panel contains various control buttons and settings. On the left, there are buttons for "Input RF", "Output DC", "Align", and "Auto". In the center, there are buttons for "Input Z: 50 Ohm", "Cent Freq", "Span", "Freq Ref", and "Int (S)". On the right, there are buttons for "Att: 40 dB", "Trig RF Band", "Center Freq: 3.54000000 GHz", "Trig Delay: 500.0 ps Counts: 1.00 N/1.00 Mpi", "RF Cam: Low", and "Radio Std: None".

Spectrum Analyzer 1
Power Stat: GDF

KEYSIGHT Input RF: 50.0 dBm
RL: **Channel DC** Core Coor: Align: Auto
Freq Ref: Int (S)

Att: 40 dB
Trig: RF Band Center Freq: 3.540000000 GHz
Trig Delay: 500.0 ps Copies: 1.00 M1: 0.00 Mpt
RF Gain: Low Radio Std: None

1 Metrics

Average Power

18.80 dBm
41.31 % at 0 dB
10.0 % 4.63 dB
1.0 % 6.00 dB
0.1 % 7.31 dB
0.01 % 7.99 dB
0.001 % 8.15 dB
0.0001 % 8.20 dB

Peak

8.28 dB
27.08 dBm

2 Graph

Gaussian

0.00 dB 20.00 dB
0.0001% 100%

into BW 25.000 MHz

[illegible]

Spectrum Analyzer 1
Power Stat CDDF

KEYSTAT Input RF 17.50 dBm
Output 38.85 dBm
Align Auto
Freq Ref Int (S)

Att: 40 dB
Tnp RF Burst
Tnp Delay 500.0 ps
CenFreq 3.540000000 GHz
1.00 MHz 0.00 Mpt
Radio Std None

1 Metrics

Average Power

13.79 dBm
38.85 % at 0 dB

10.0 % 4.88 dB
1.0 % 6.99 dB
0.1 % 7.31 dB
0.01 % 7.43 dB
0.001 % 7.48 dB
0.0001 % 7.50 dB

Peak

7.54 dB
26.33 dBm

2 Graph

Gaussian

10.0 dBm/Hz
1.0 dBm/Hz
0.1 dBm/Hz
0.01 dBm/Hz
0.001 dBm/Hz
0.0001 dBm/Hz
0.00001 dBm/Hz

0.00 dB
20.00 dB

Info BW 25.000 MHz

Nov 18, 2021
10:28:17 AM

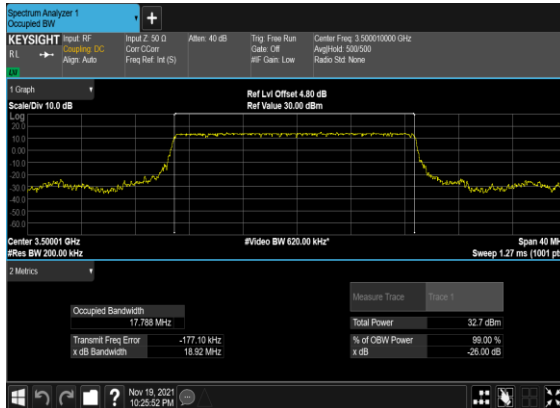
Occupied Bandwidth

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB OBW (MHz)
78	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	50@0	17.788	18.92
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	17.808	19.29
78	30	20	633334	3500.01	CP-OFDM QPSK	51@0	18.219	20.08
78	30	20	633334	3500.01	CP-OFDM 16 QAM	51@0	18.234	19.73
78	30	20	633334	3500.01	CP-OFDM 64 QAM	51@0	18.19	19.33
78	30	20	633334	3500.01	CP-OFDM 256 QAM	51@0	18.159	19.56
78	30	30	633334	3500.01	DFT-s-OFDM PI/2 BPSK	75@0	26.786	28.22
78	30	30	633334	3500.01	DFT-s-OFDM QPSK	75@0	26.718	28.24
78	30	30	633334	3500.01	CP-OFDM QPSK	78@0	27.824	29.28
78	30	30	633334	3500.01	CP-OFDM 16 QAM	78@0	27.859	29.74
78	30	30	633334	3500.01	CP-OFDM 64 QAM	78@0	27.803	29.58
78	30	30	633334	3500.01	CP-OFDM 256 QAM	78@0	27.815	29.45
78	30	40	633334	3500.01	DFT-s-OFDM PI/2 BPSK	100@0	35.758	37.31
78	30	40	633334	3500.01	DFT-s-OFDM QPSK	100@0	35.737	37.82
78	30	40	633334	3500.01	CP-OFDM QPSK	106@0	37.822	39.53
78	30	40	633334	3500.01	CP-OFDM 16 QAM	106@0	37.779	39.94
78	30	40	633334	3500.01	CP-OFDM 64 QAM	106@0	37.795	39.83
78	30	40	633334	3500.01	CP-OFDM 256 QAM	106@0	37.895	39.61
78	30	50	633334	3500.01	DFT-s-OFDM PI/2 BPSK	128@0	45.731	47.98
78	30	50	633334	3500.01	DFT-s-OFDM QPSK	128@0	45.762	47.65
78	30	50	633334	3500.01	CP-OFDM QPSK	133@0	47.466	49.68
78	30	50	633334	3500.01	CP-OFDM 16 QAM	133@0	47.454	49.17
78	30	50	633334	3500.01	CP-OFDM 64 QAM	133@0	47.494	49.42
78	30	50	633334	3500.01	CP-OFDM 256 QAM	133@0	47.478	49.23
78	30	60	633334	3500.01	DFT-s-OFDM PI/2 BPSK	162@0	57.936	59.82

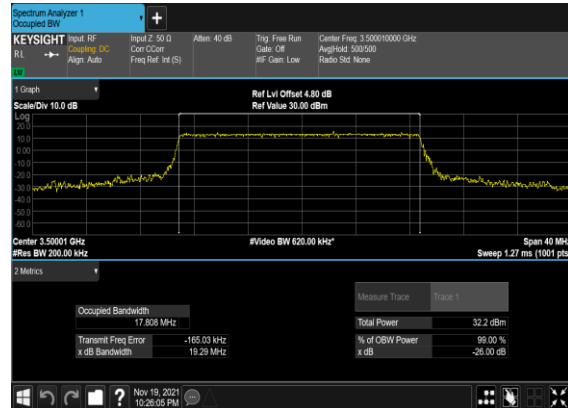
78	30	60	633334	3500.01	DFT-s-OFDM QPSK	162@0	58.007	59.9
78	30	60	633334	3500.01	CP-OFDM QPSK	162@0	57.777	60.02
78	30	60	633334	3500.01	CP-OFDM 16 QAM	162@0	57.88	60.12
78	30	60	633334	3500.01	CP-OFDM 64 QAM	162@0	57.8	59.78
78	30	60	633334	3500.01	CP-OFDM 256 QAM	162@0	57.737	59.71
78	30	70	633334	3500.01	DFT-s-OFDM PI/2 BPSK	180@0	64.394	66.48
78	30	70	633334	3500.01	DFT-s-OFDM QPSK	180@0	64.41	66.68
78	30	70	633334	3500.01	CP-OFDM QPSK	189@0	67.326	69.93
78	30	70	633334	3500.01	CP-OFDM 16 QAM	189@0	67.51	70.04
78	30	70	633334	3500.01	CP-OFDM 64 QAM	189@0	67.335	69.76
78	30	70	633334	3500.01	CP-OFDM 256 QAM	189@0	67.373	69.84
78	30	80	633334	3500.01	DFT-s-OFDM PI/2 BPSK	216@0	77.113	79.85
78	30	80	633334	3500.01	DFT-s-OFDM QPSK	216@0	77.269	79.94
78	30	80	633334	3500.01	CP-OFDM QPSK	217@0	77.477	80.05
78	30	80	633334	3500.01	CP-OFDM 16 QAM	217@0	77.431	80.04
78	30	80	633334	3500.01	CP-OFDM 64 QAM	217@0	77.519	80.09
78	30	80	633334	3500.01	CP-OFDM 256 QAM	217@0	77.44	80.23
78	30	90	633334	3500.01	DFT-s-OFDM PI/2 BPSK	240@0	85.722	88.64
78	30	90	633334	3500.01	DFT-s-OFDM QPSK	240@0	85.842	88.67
78	30	90	633334	3500.01	CP-OFDM QPSK	245@0	87.446	90.5
78	30	90	633334	3500.01	CP-OFDM 16 QAM	245@0	87.379	90.62
78	30	90	633334	3500.01	CP-OFDM 64 QAM	245@0	87.504	90.42
78	30	90	633334	3500.01	CP-OFDM 256 QAM	245@0	87.459	90.32
78	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	270@0	96.473	99.74
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	270@0	96.453	99.58
78	30	100	633334	3500.01	CP-OFDM QPSK	273@0	97.499	100.7
78	30	100	633334	3500.01	CP-OFDM 16 QAM	273@0	97.309	100.7

78	30	100	633334	3500.01	CP-OFDM 64 QAM	273@0	97.336	100.6
78	30	100	633334	3500.01	CP-OFDM 256 QAM	273@0	97.404	100.8

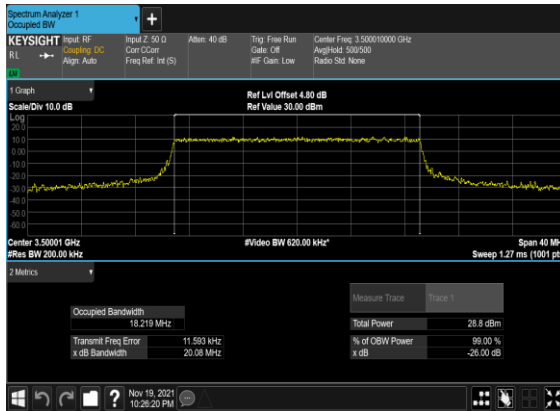
B41_N78(20M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_Mid_CH



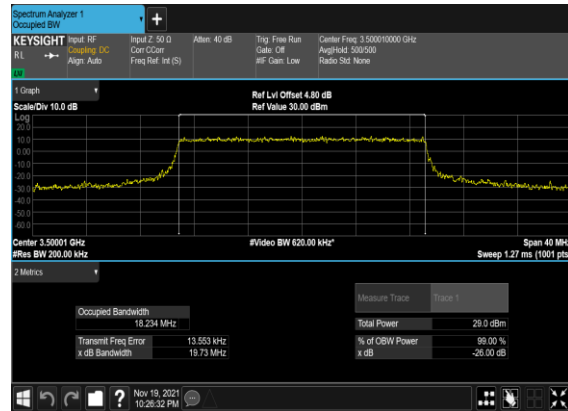
B41_N78(20M)_DFT-s-
OFDM_QPSK_Outer_Full_Mid_CH



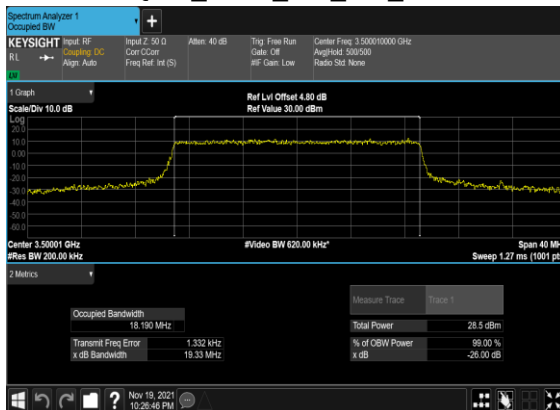
B41_N78(20M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



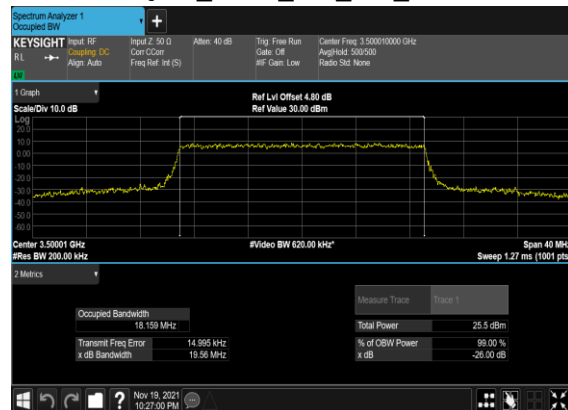
B41_N78(20M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



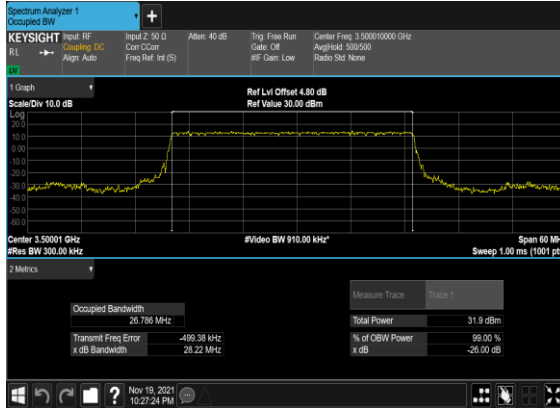
B41_N78(20M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



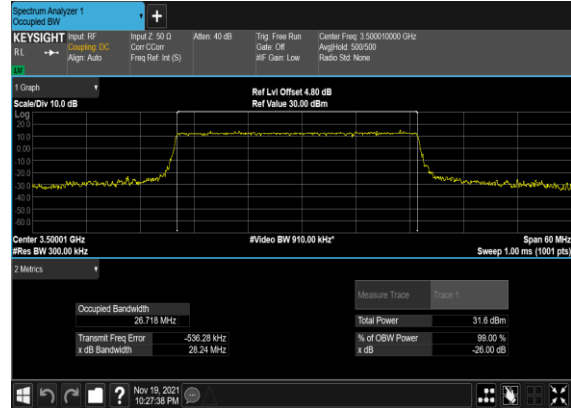
B41_N78(20M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



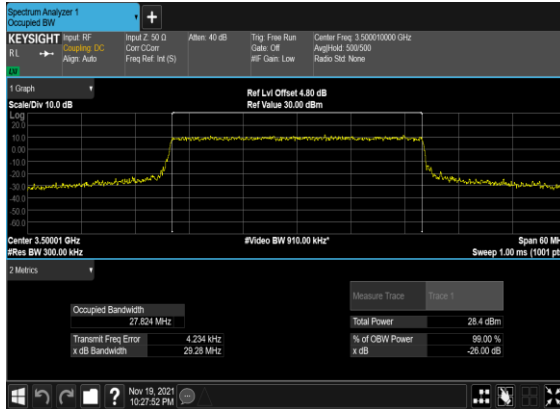
B41_N78(30M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_Mid_CH



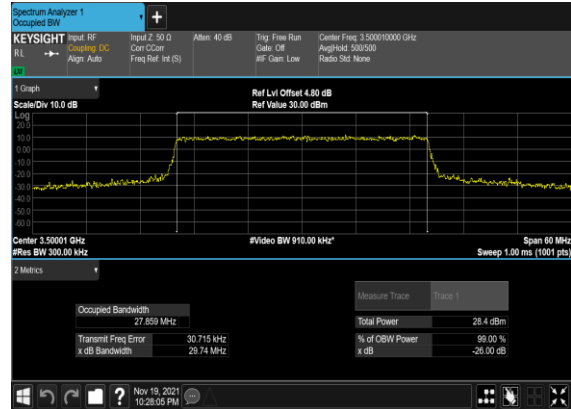
B41_N78(30M)_DFT-s-
OFDM_QPSK_Outer_Full_Mid_CH



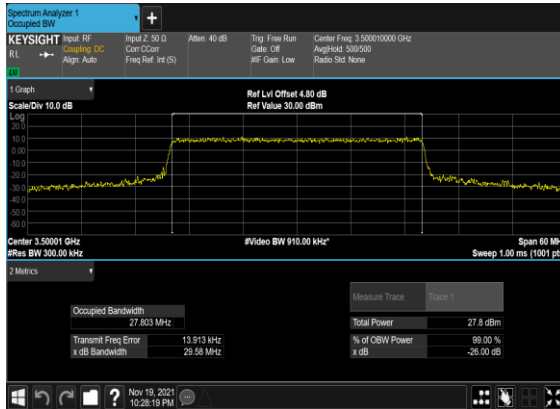
B41_N78(30M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



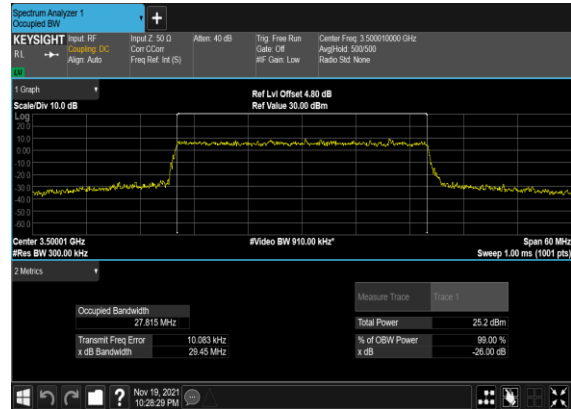
B41_N78(30M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



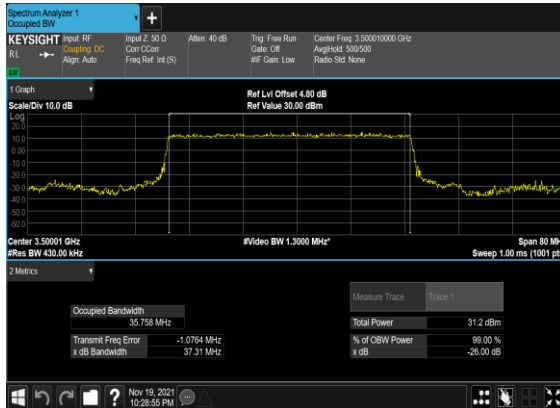
B41_N78(30M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



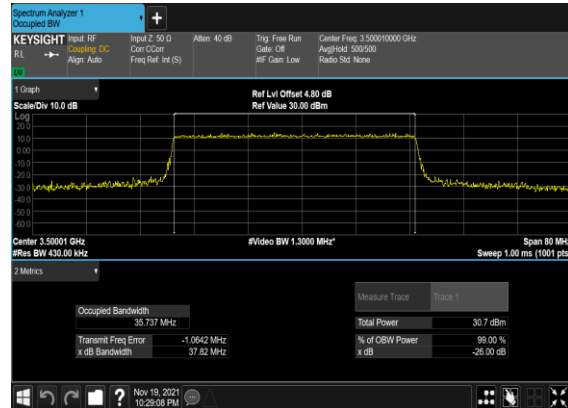
B41_N78(30M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



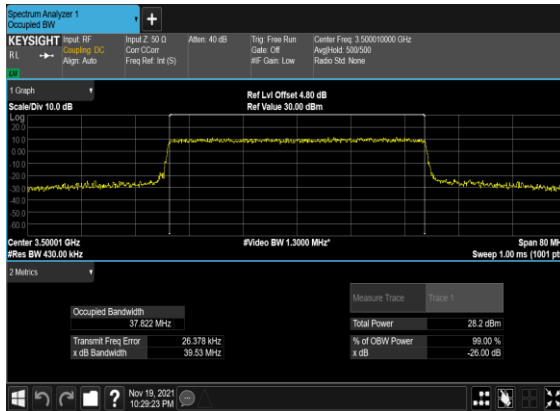
B41_N78(40M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_Mid_CH



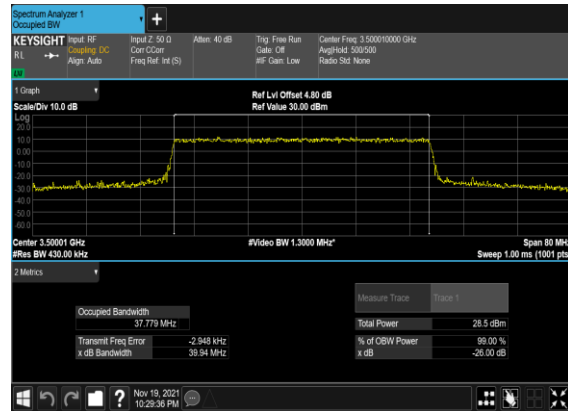
B41_N78(40M)_DFT-s-
OFDM_QPSK_Outer_Full_Mid_CH



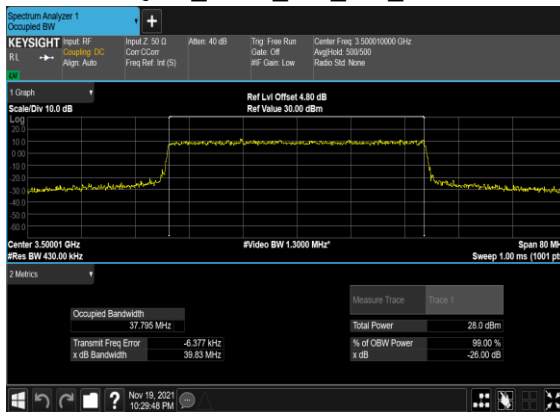
B41_N78(40M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



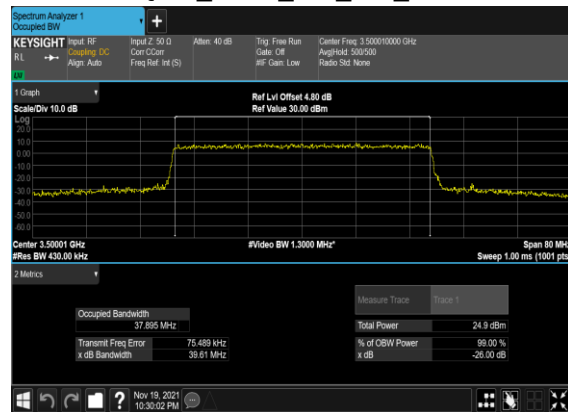
B41_N78(40M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



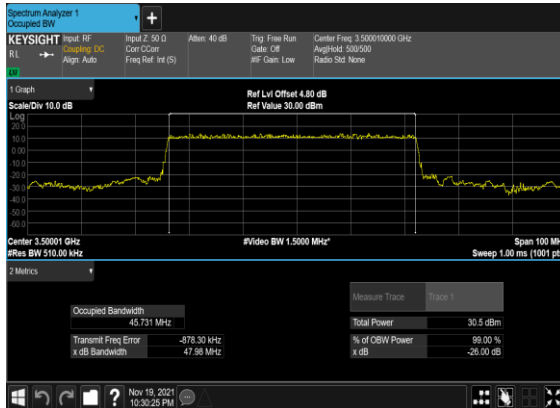
B41_N78(40M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



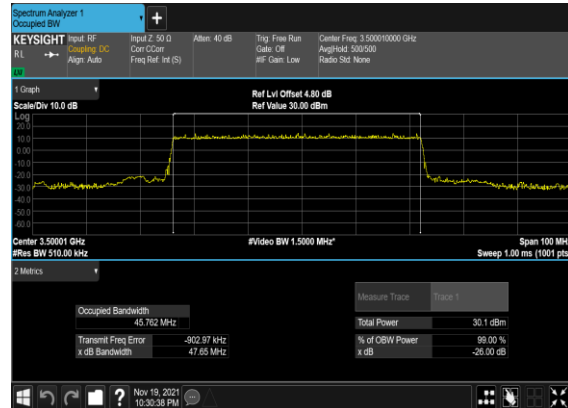
B41_N78(40M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



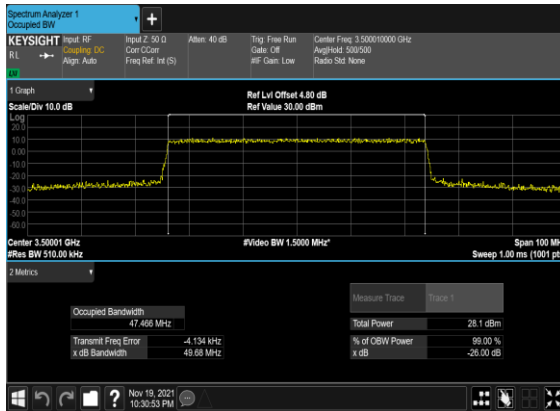
B41_N78(50M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_Mid_CH



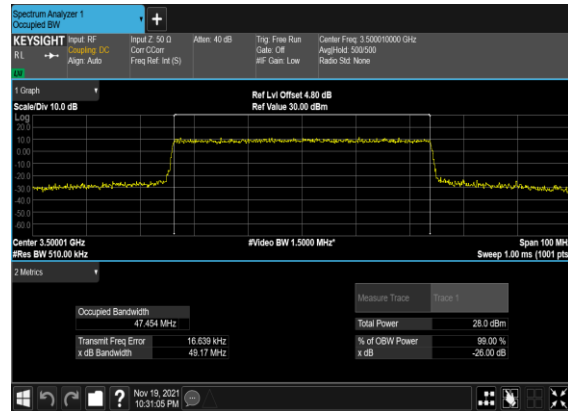
B41_N78(50M)_DFT-s-
OFDM_QPSK_Outer_Full_Mid_CH



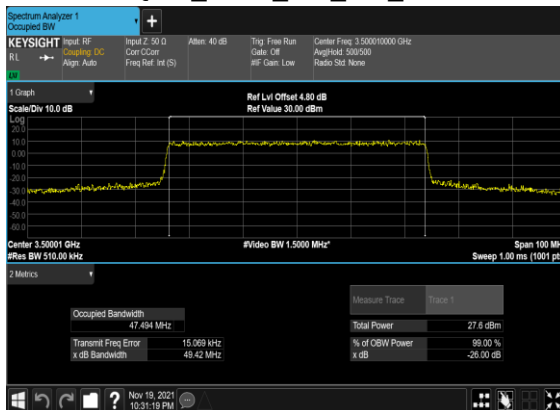
B41_N78(50M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



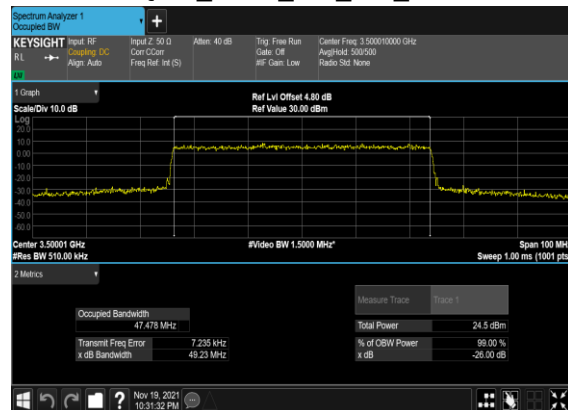
B41_N78(50M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



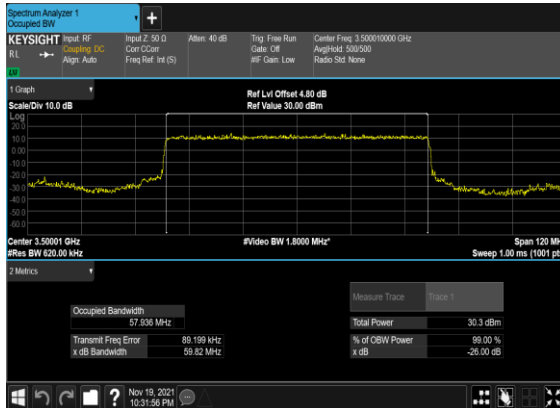
B41_N78(50M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



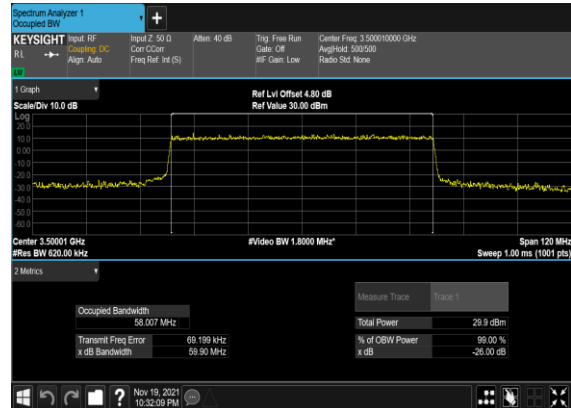
B41_N78(50M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



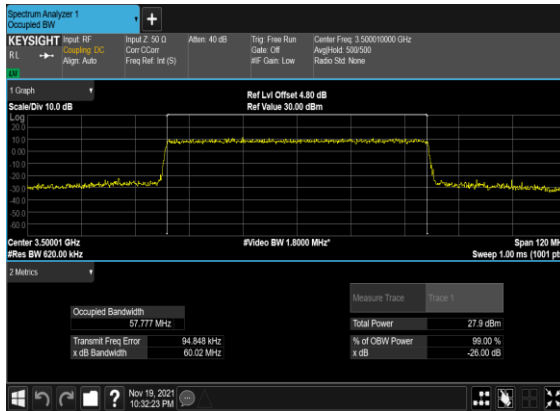
B41_N78(60M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_Mid_CH



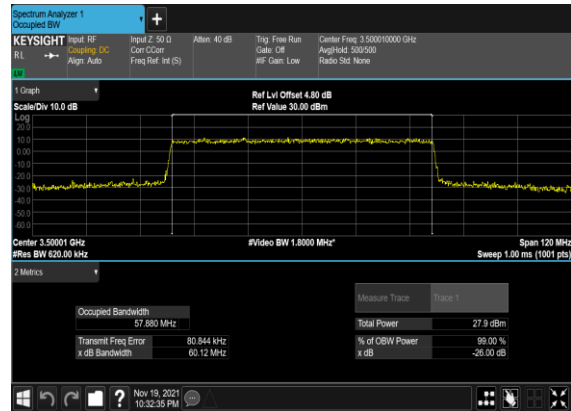
B41_N78(60M)_DFT-s-
OFDM_QPSK_Outer_Full_Mid_CH



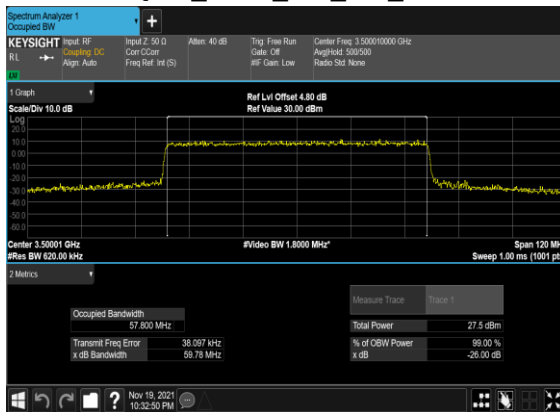
B41_N78(60M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



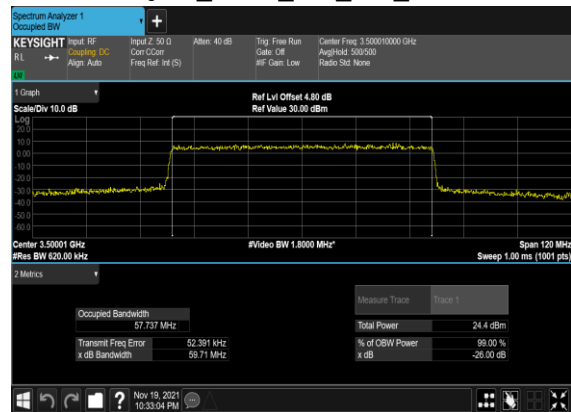
B41_N78(60M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



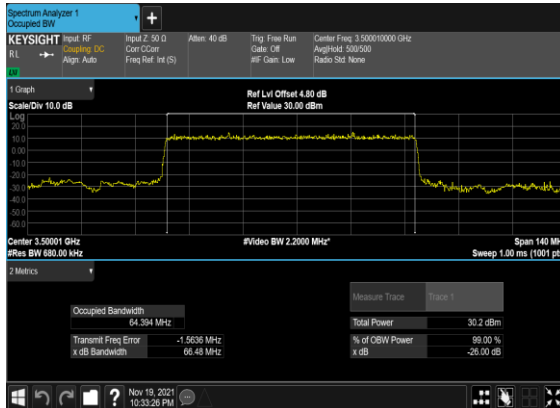
B41_N78(60M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



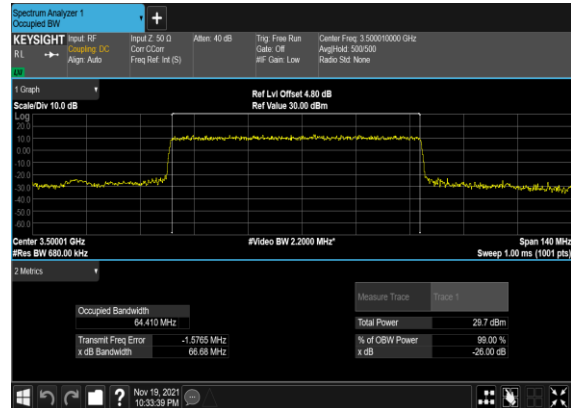
B41_N78(60M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



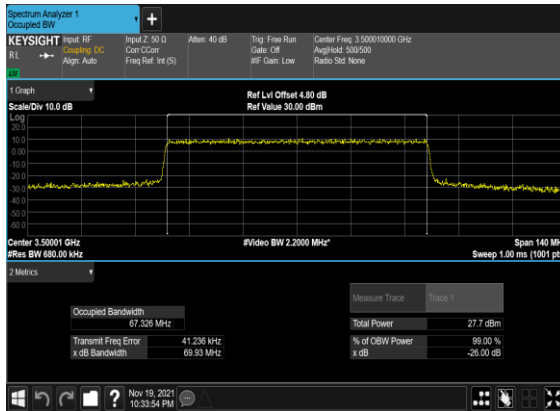
B41_N78(70M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_Mid_CH



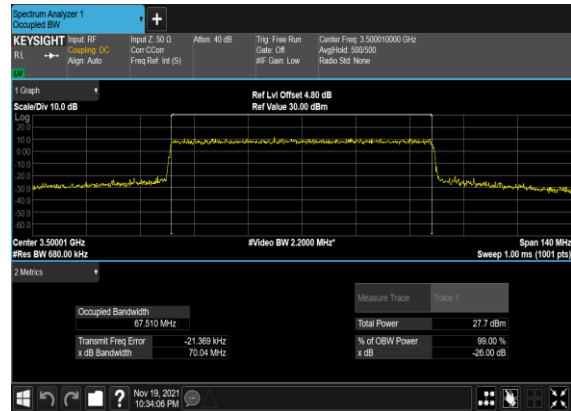
B41_N78(70M)_DFT-s-
OFDM_QPSK_Outer_Full_Mid_CH



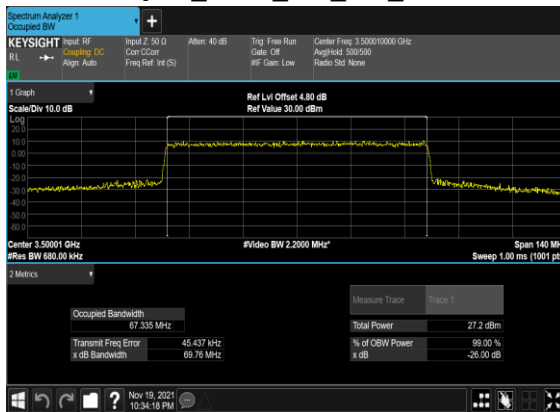
B41_N78(70M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



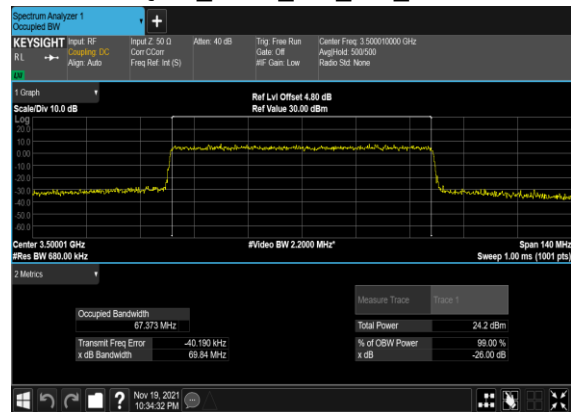
B41_N78(70M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



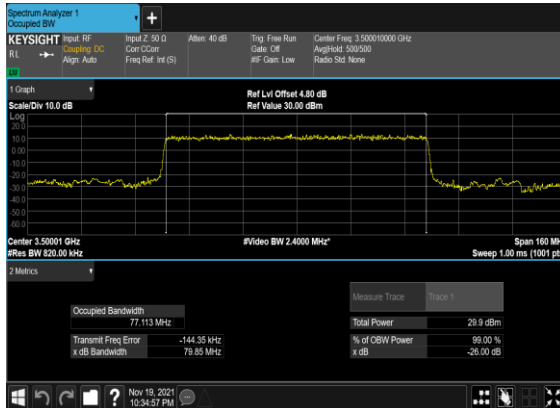
B41_N78(70M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



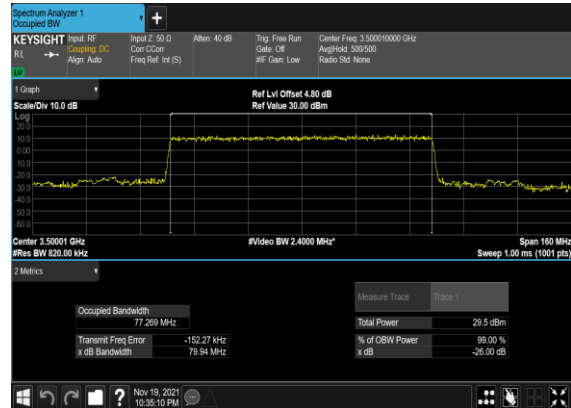
B41_N78(70M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



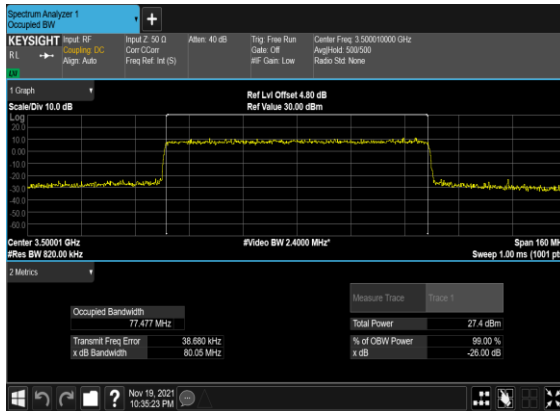
B41_N78(80M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_Mid_CH



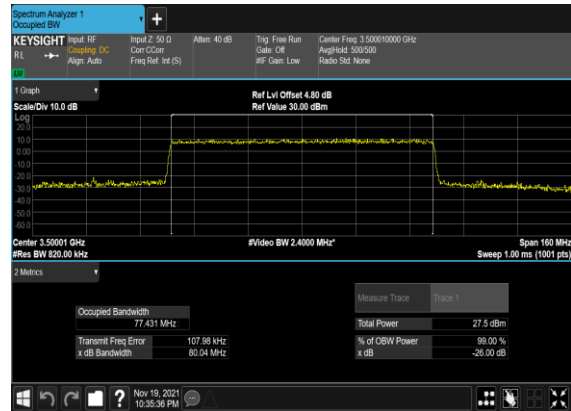
B41_N78(80M)_DFT-s-
OFDM_QPSK_Outer_Full_Mid_CH



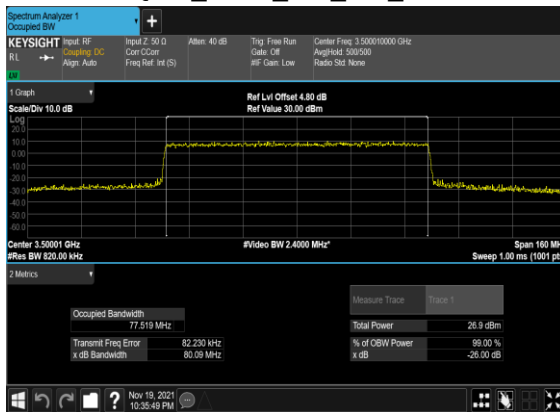
B41_N78(80M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



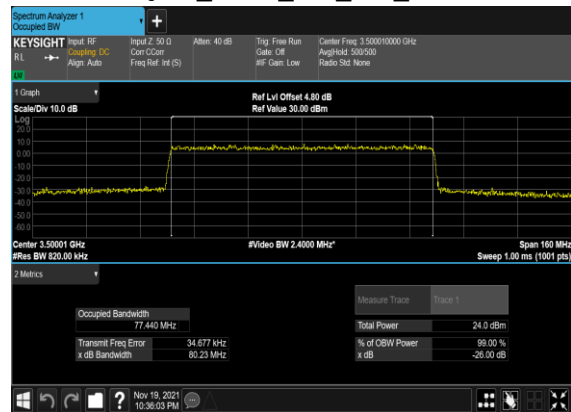
B41_N78(80M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



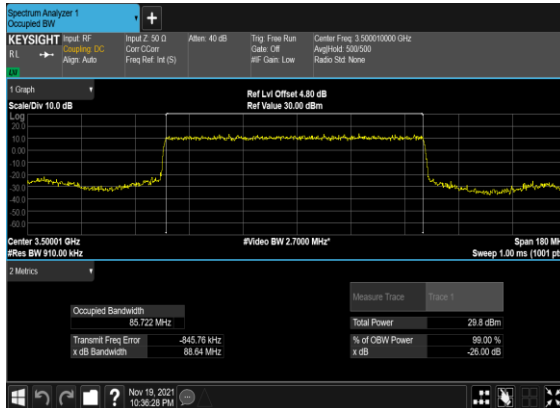
B41_N78(80M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



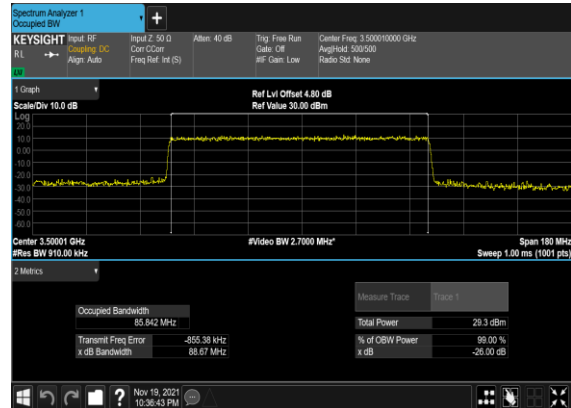
B41_N78(80M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



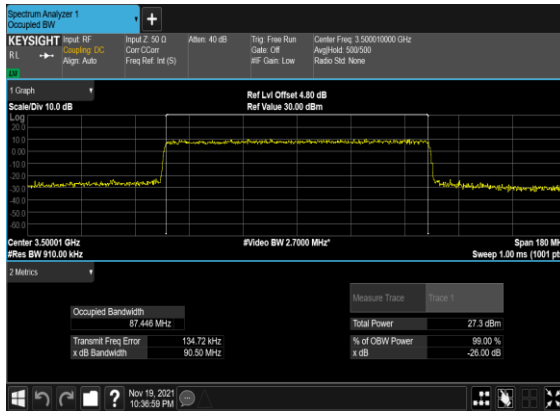
B41_N78(90M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_Mid_CH



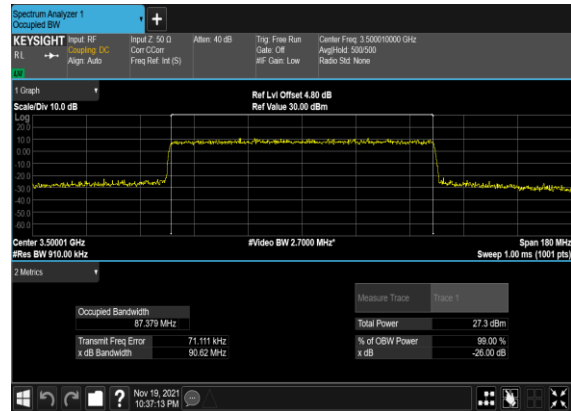
B41_N78(90M)_DFT-s-
OFDM_QPSK_Outer_Full_Mid_CH



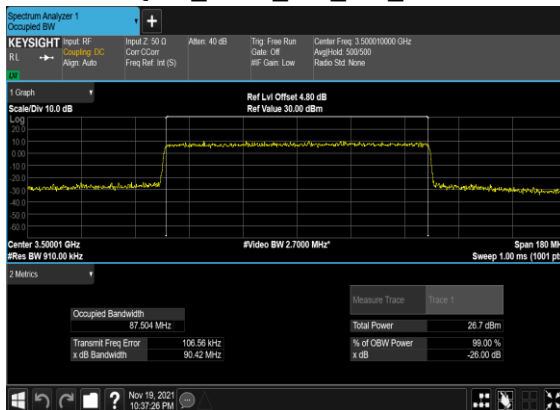
B41_N78(90M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



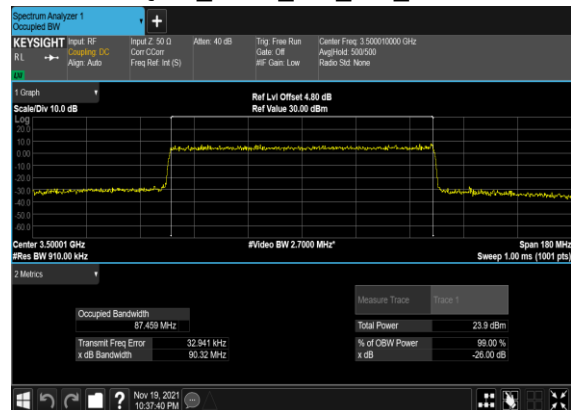
B41_N78(90M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



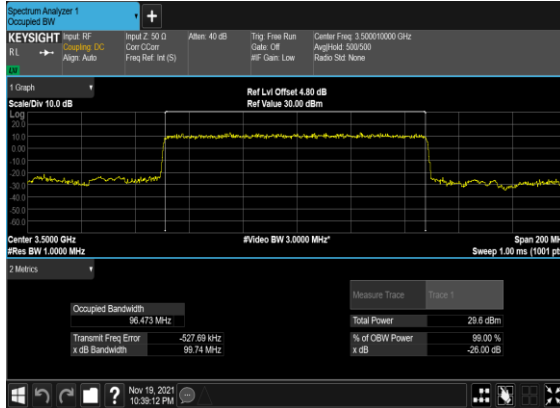
B41_N78(90M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



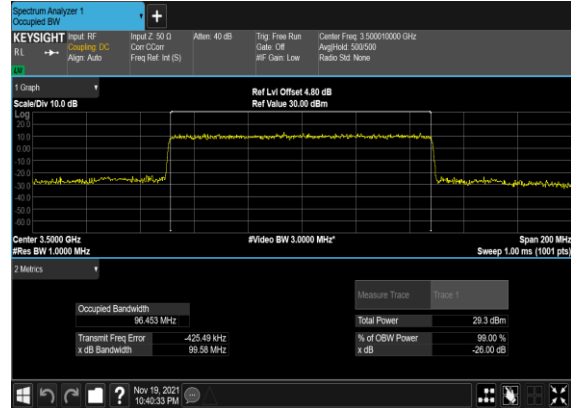
B41_N78(90M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



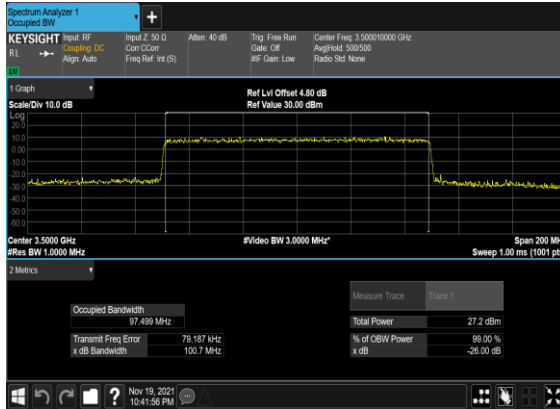
B41_N78(100M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_Mid_CH



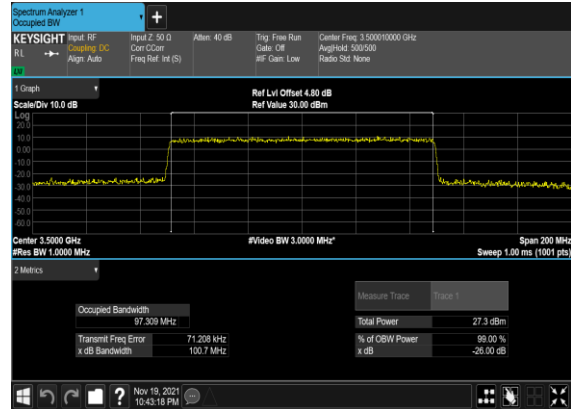
B41_N78(100M)_DFT-s-
OFDM_QPSK_Outer_Full_Mid_CH



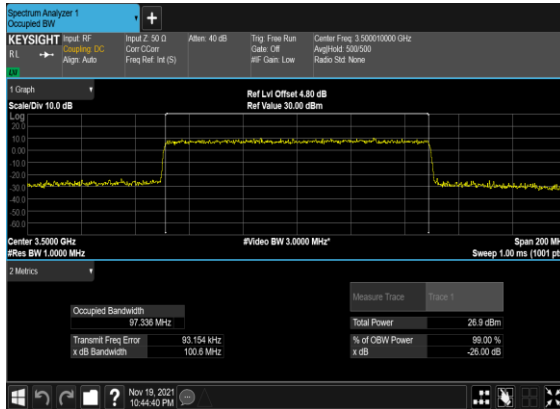
B41_N78(100M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



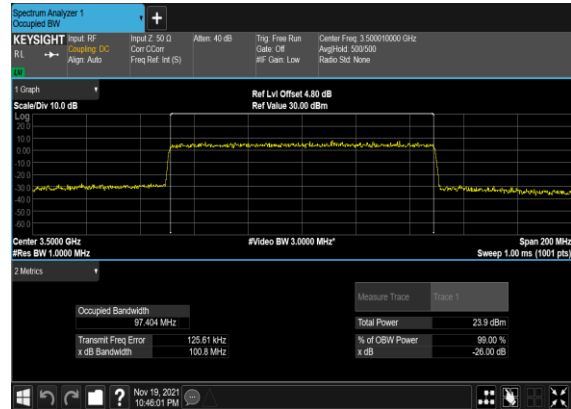
B41_N78(100M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



B41_N78(100M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



B41_N78(100M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



Conducted Spurious Emissions

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
78	30	20	630668	3460.02	DFT-s-OFDM BPSK	1@0	see graph	---
78	30	20	630668	3460.02	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	20	630668	3460.02	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@0	see graph	---
78	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	20	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	---
78	30	20	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	20	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	---
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	20	636000	3540.0	DFT-s-OFDM BPSK	1@0	see graph	---
78	30	20	636000	3540.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	20	636000	3540.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	20	636000	3540.0	DFT-s-OFDM QPSK	1@0	see graph	---
78	30	20	636000	3540.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	20	636000	3540.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	60	632000	3480.0	DFT-s-OFDM BPSK	1@0	see graph	---
78	30	60	632000	3480.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	60	632000	3480.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	60	632000	3480.0	DFT-s-OFDM QPSK	1@0	see graph	---

78	30	60	632000	3480.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	60	632000	3480.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	60	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	---
78	30	60	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	60	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	60	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	---
78	30	60	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	60	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	60	634666	3519.99	DFT-s-OFDM BPSK	1@0	see graph	---
78	30	60	634666	3519.99	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	60	634666	3519.99	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	60	634666	3519.99	DFT-s-OFDM QPSK	1@0	see graph	---
78	30	60	634666	3519.99	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	60	634666	3519.99	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	100	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	---
78	30	100	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	100	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	---
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS

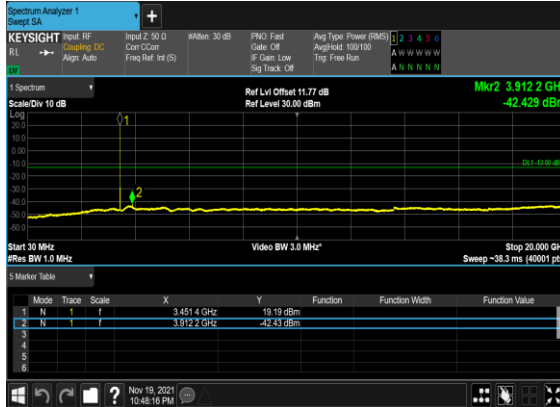
B41_N78(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



B41_N78(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



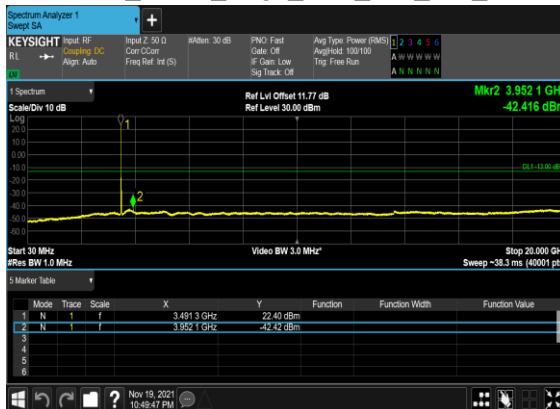
B41_N78(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



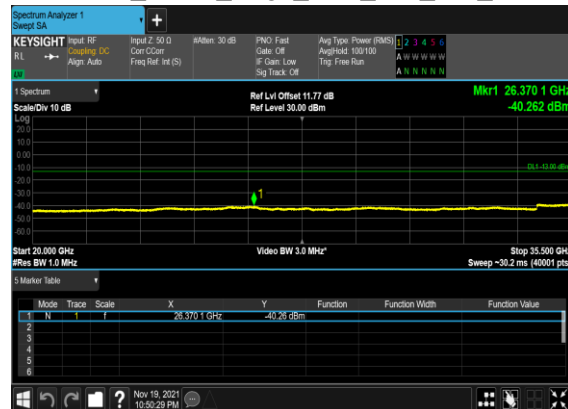
B41_N78(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



B41_N78(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



B41_N78(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



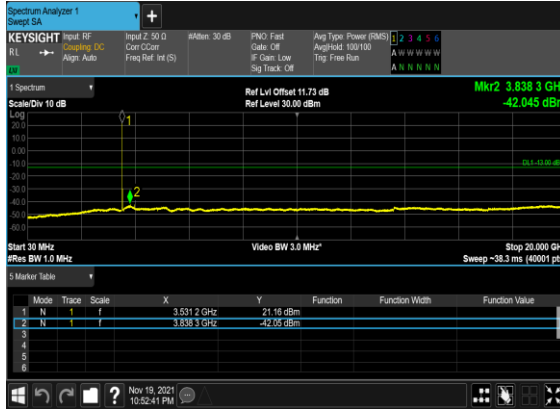
B41_N78(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



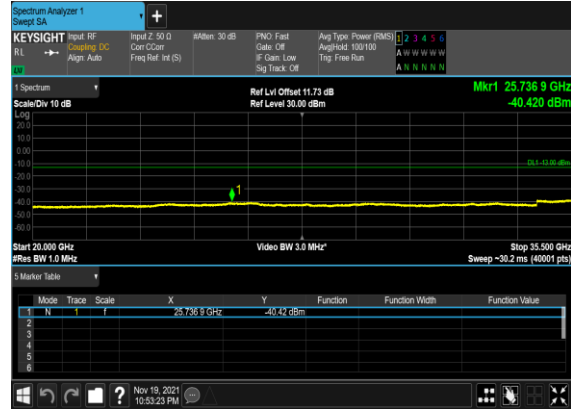
B41_N78(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



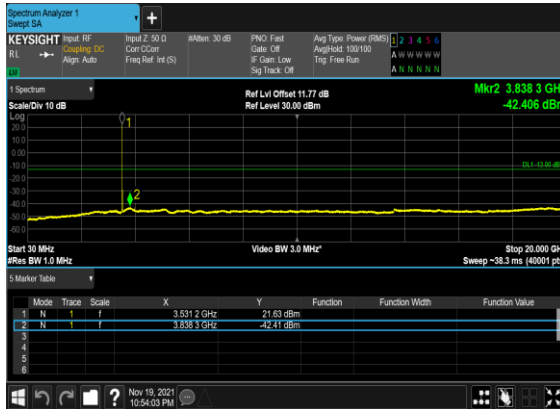
B41_N78(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



B41_N78(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



B41_N78(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH



B41_N78(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH



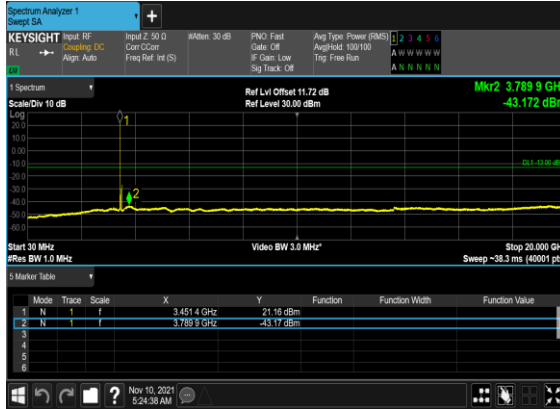
B41_N78(60M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



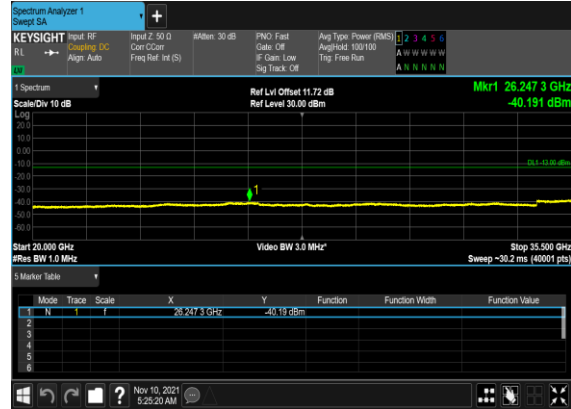
B41_N78(60M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



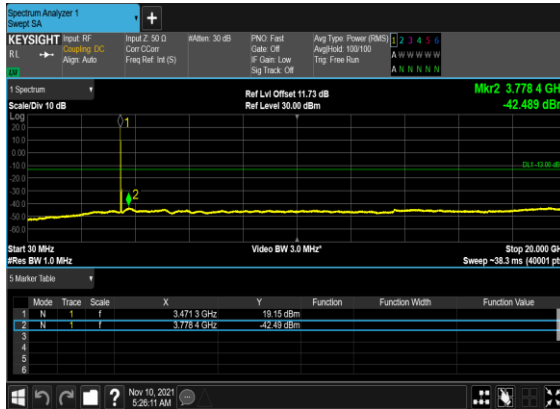
B41_N78(60M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



B41_N78(60M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



B41_N78(60M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



B41_N78(60M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



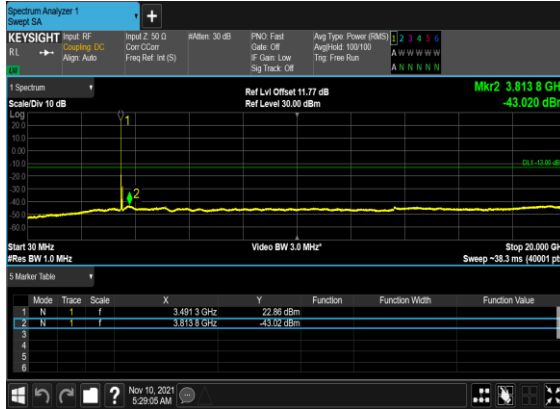
B41_N78(60M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



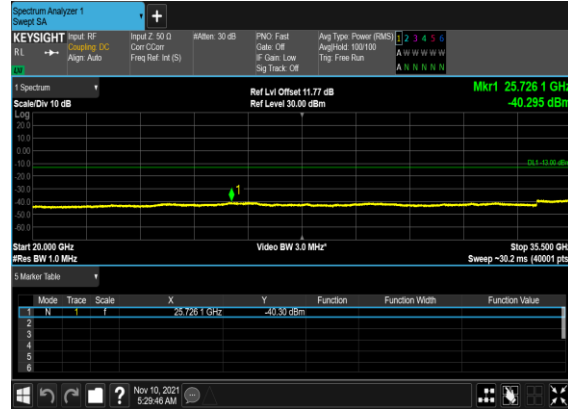
B41_N78(60M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



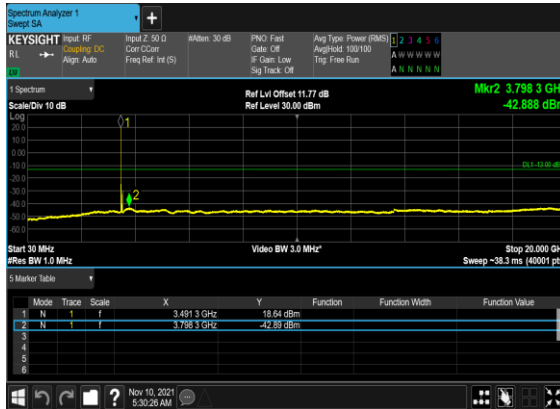
B41_N78(60M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



B41_N78(60M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



B41_N78(60M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH



B41_N78(60M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH

