

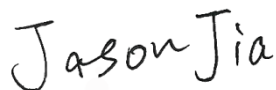
# FCC RF Test Report

APPLICANT : Motorola Mobility LLC  
EQUIPMENT : Mobile Cellular Phone  
BRAND NAME : Motorola  
MODEL NAME : XT2213-1, XT2213DL, XT2213-2, XT2213-3  
FCC ID : IHDT56AA3  
STANDARD : 47 CFR Part 2, Part 27 Subpart Q  
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)  
TEST DATE(S) : Jan. 10, 2022 ~ Jan. 19, 2022

We, Sporton International Inc. (Kunshan), 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 Inc. (Shenzhen)

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



Reviewed by: Jason Jia / Supervisor



Approved by: Alex Wang / Manager



**Sporton International Inc. (Kunshan)**

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



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## 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 26.67 dB at 7008.000 MHz

<b>Declaration of Conformity:</b>
The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
<b>Comments and Explanations:</b>
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	
<b>Equipment</b>	Mobile Cellular Phone
<b>Brand Name</b>	Motorola
<b>Model Name</b>	XT2213-1, XT2213DL, XT2213-2, XT2213-3
<b>FCC ID</b>	IHDT56AA3
<b>IMEI Code</b>	Conducted: 353739480009600 Radiation: 004402543180974
<b>HW Version</b>	DVT2
<b>SW Version</b>	S1SA32.27
<b>EUT Stage</b>	Identical Prototype

## 1.4 Product Specification of Equipment Under Test

Product Feature	
<b>Tx/Rx Frequency</b>	5G NR n77: 3450 MHz ~ 3550 MHz 5G NR n78: 3450 MHz ~ 3550 MHz
<b>Bandwidth</b>	5G NR n77: 10MHz / 15MHz / 20MHz / 40MHz / 50MHz / 60MHz / 80MHz / 90MHz / 100MHz 5G NR n78: 10MHz / 15MHz / 20MHz / 30MHz / 40MHz / 50MHz / 60MHz / 70MHz / 80MHz / 90MHz / 100MHz
<b>SCS</b>	30kHz
<b>Antenna Gain</b>	5G NR n77 : -2.4 dBi 5G NR n78 : -4.0 dBi
<b>Type of Modulation</b>	CP-OFDM: QPSK / 16QAM / 64QAM / 256QAM DFT-s-OFDM: PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM

**Remark:**

1. The four models XT2215-2, XT2215-3, XT2215-4 and XT2215DL are only for market differentiation, all the others are the same.
2. The maximum EIRP is calculated from max Output power and antenna gain, only the maximum EIRP are shown in the report.
3. 5G NR n77/n78 support SA & NSA.

4. 5G NR n77/n78 support HPUE.

### 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 n77		QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
10	3455.01 ~ 3544.98	0.2393	8M60G7D	0.1897	8M59W7D
15	3457.50 ~ 3542.49	0.2371	13M6G7D	0.1848	13M6W7D
20	3460.02 ~ 3540.00	0.2360	18M2G7D	0.1879	18M2W7D
40	3470.01 ~ 3529.98	0.2344	37M8G7D	0.1858	37M9W7D
50	3475.02 ~ 3525.00	0.2344	47M5G7D	0.1862	47M5W7D
60	3480.00 ~ 3519.99	0.2355	57M8G7D	0.1841	57M9W7D
80	3490.02 ~ 3510.00	0.2344	78M3G7D	0.1845	78M6W7D
90	3495.00 ~ 3504.99	0.2323	87M3G7D	0.1828	87M5W7D
100	3500.01 ~ 3500.01	0.2265	97M4G7D	0.1807	97M3W7D

5G NR n78		QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
10	3455.01 ~ 3544.98	0.1637	8M60G7D	0.1337	8M59W7D
15	3457.50 ~ 3542.49	0.1633	13M6G7D	0.1330	13M6W7D
20	3460.02 ~ 3540.00	0.1629	18M2G7D	0.1318	18M2W7D
30	3465.00 ~ 3534.99	0.1618	27M8G7D	0.1300	27M9W7D
40	3470.01 ~ 3529.98	0.1600	37M8G7D	0.1259	37M9W7D
50	3475.02 ~ 3525.00	0.1589	47M5G7D	0.1268	47M5W7D
60	3480.00 ~ 3519.99	0.1585	57M8G7D	0.1256	57M9W7D
70	3485.01 ~ 3514.98	0.1618	67M5G7D	0.1285	67M6W7D
80	3490.02 ~ 3510.00	0.1607	78M3G7D	0.1279	78M6W7D
90	3495.00 ~ 3504.99	0.1581	87M3G7D	0.1245	87M5W7D
100	3500.01 ~ 3500.01	0.1552	97M4G7D	0.1236	97M3W7D

**Note:**



1. All modulations (BPSK/QPSK/16QAM/64QAM/256QAM) have been tested, and only the worst test results of PSK & QAM are shown in the report.
2. 5G NR Band n78 overlaps the entire frequency range of Band n77. Therefore, the conducted test results provided in this report covers Band n78 as well as Band n77 according to conducted power.

### 1.7 Testing Site

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

<b>Test Firm</b>	Sporton International Inc. (Kunshan)		
<b>Test Site Location</b>	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		
<b>Test Site No.</b>	<b>Sporton Site No.</b>	<b>FCC Designation No.</b>	<b>FCC Test Firm Registration No.</b>
	03CH04-KS	CN1257	314309

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

<b>Test Firm</b>	Sporton International Inc. (Shenzhen)		
<b>Test Site Location</b>	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		
<b>Test Site No.</b>	<b>Sporton Site No.</b>	<b>FCC Designation No.</b>	<b>FCC Test Firm Registration No.</b>
	TH01-SZ	CN1256	421272

Test data subcontracted: conducted test items 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.



## 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.

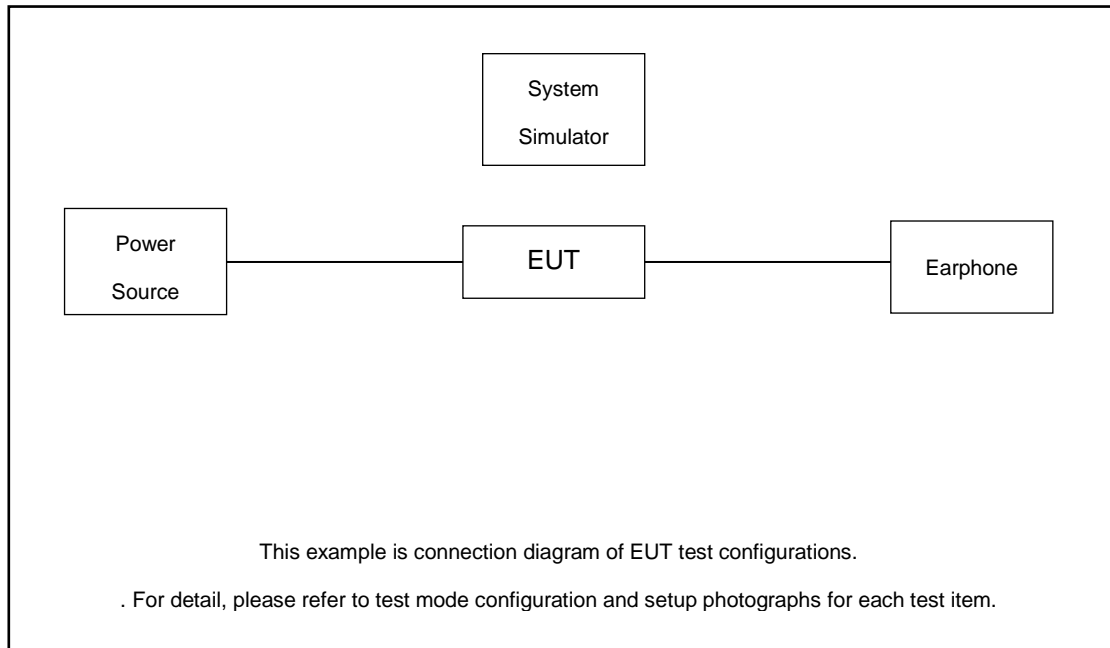
Radiated measurements are performed by rotating the EUT in three different orthogonal test planes to find the maximum emission (Y plane).

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/n78	All BWs	All Modulations	1RB, Partial RB, Full RB	L, M, H
Peak-to-Average Ratio	5G n78	20M	BPSK, QPSK	Full RB	M
E.I.R.P	5G n77/n78	All BWs	All Modulations	1RB, Partial RB, Full RB	L, M, H
26dB and 99% Bandwidth	5G n78	All BWs	All Modulations	Full RB	M
Conducted Band Edge	5G n78	L, M, H BWs	BPSK, QPSK	1RB, Full RB	L, H
Conducted Spurious Emission	5G n78	L, M, H BWs	BPSK, QPSK	1RB	L, M, H
Frequency Stability	5G n78	20M	QPSK	1RB	L, H
Radiated Spurious Emission	5G n78	Worst case from maximum power			M

**Note:**

1. 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.
2. 5G NR n78 overlaps the entire frequency range of n77, Therefore, the test results provided in this report covers n78 as well as n77.
3. Frequency Stability: Normal Voltage = 3.8V ; Low Voltage =3.6V.; High Voltage =4.4V

## 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	MT8821C/MT8000	N/A	N/A	Unshielded, 1.8 m
3.	Earphone	N/A	N/A	N/A	N/A	N/A

## 2.4 Measurement Results Explanation Example

### For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss 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 5.0 dB.

Example :

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)}. \\ &= 5.0 \text{ (dB)} \end{aligned}$$

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

5G n77 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
100	Channel	-	633334	-
	Frequency	-	3500.01	-
90	Channel	633000	633334	633666
	Frequency	3495	3500.01	3504.99
80	Channel	632668	633334	634000
	Frequency	3490.02	3500.01	3510
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
20	Channel	630668	633334	636000
	Frequency	3460.02	3500.01	3540
15	Channel	630500	633334	636166
	Frequency	3457.5	3500.01	3542.49
10	Channel	630334	633334	636333
	Frequency	3455.01	3500.01	3544.995



5G 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
15	Channel	630500	633334	636166
	Frequency	3457.5	3500.01	3542.49
10	Channel	630334	633334	636333
	Frequency	3455.01	3500.01	3544.995

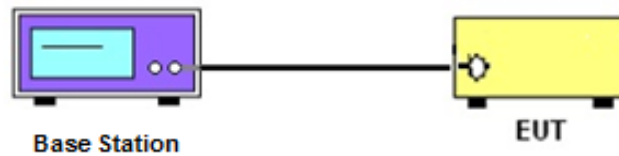
### 3 Conducted Test Items

#### 3.1 Measuring Instruments

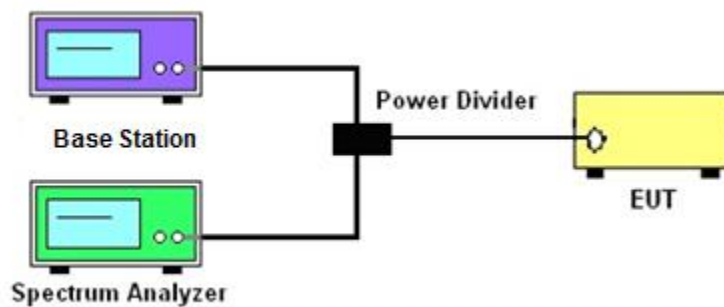
See list of measuring instruments of this test report.

#### 3.2 Test Setup

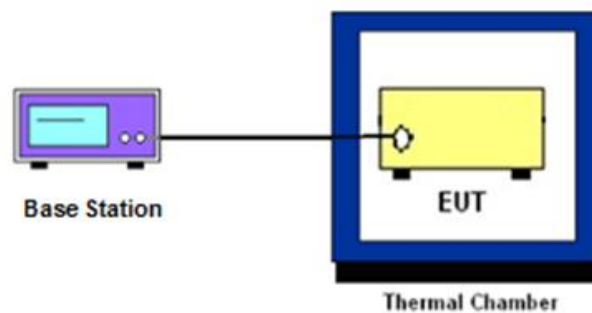
##### 3.2.1 Conducted Output Power



##### 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  $\geq 500$ 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 10<sup>th</sup> 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  $-30^{\circ}\text{C}$  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  $10^{\circ}\text{C}$  step up to  $50^{\circ}\text{C}$ . 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  $20\pm 5^{\circ}\text{C}$  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.

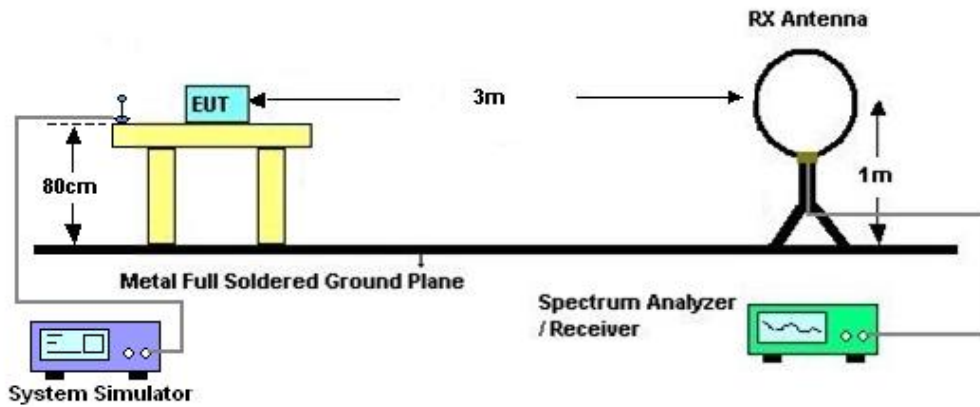
## 4 Radiated Test Items

### 4.1 Measuring Instruments

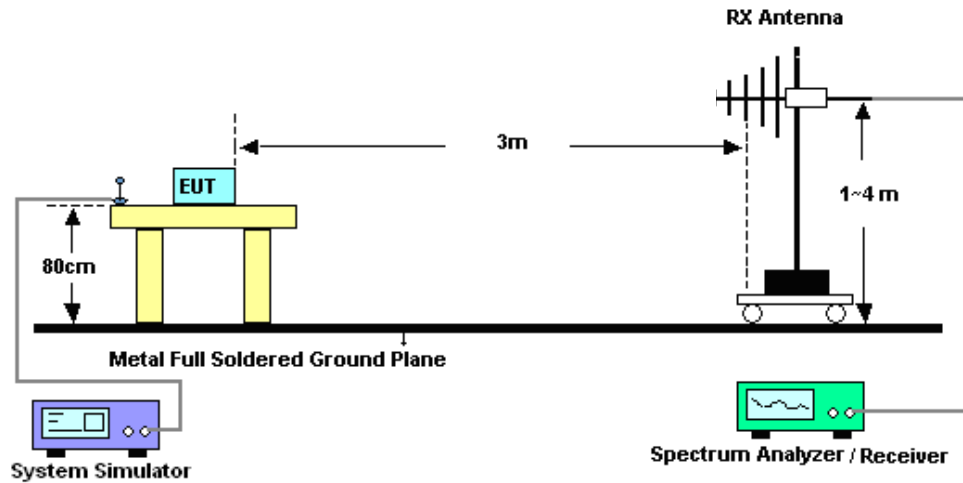
See list of measuring instruments of this test report.

### 4.2 Test Setup

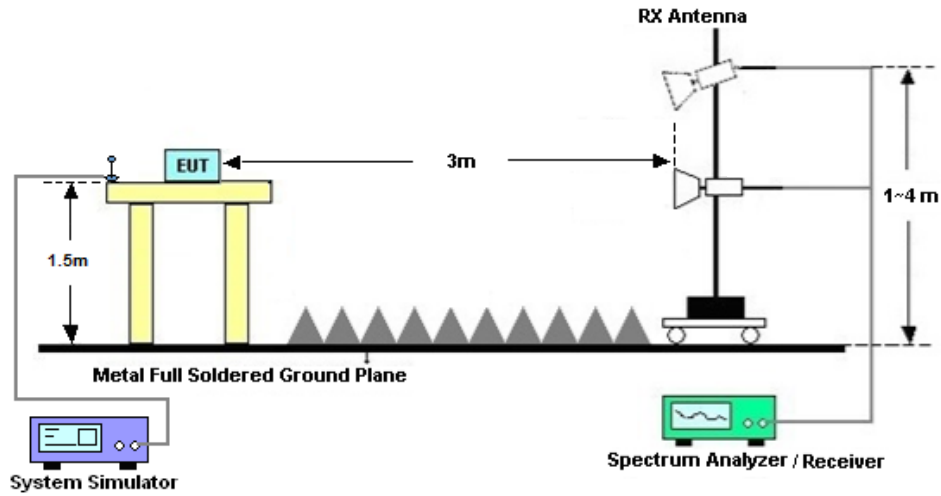
#### 4.2.1 For radiated test below 30MHz



#### 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
EXA Signal Analyzer	KEYSIGHT	N9010B	MY60240803	10Hz~44GHz	Apr. 03, 2021	Jan. 16, 2022~ Jan. 19, 2022	Apr. 02, 2022	Conducted (TH01-SZ)
Power divider	STI	STI08-0055	-	0.5~40GHz	Aug. 26, 2021	Jan. 16, 2022~ Jan. 19, 2022	Aug. 25, 2022	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 14, 2021	Jan. 16, 2022~ Jan. 19, 2022	Jul. 13, 2022	Conducted (TH01-SZ)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150244	10Hz-44G,MAX 30dB	Apr. 13, 2021	Jan. 10, 2022	Apr. 12, 2022	Radiation (03CH04-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Oct. 30, 2021	Jan. 10, 2022	Oct. 29, 2022	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	49922	30MHz-1GHz	May 30, 2021	Jan. 10, 2022	May 29, 2022	Radiation (03CH04-KS)
Horn Antenna	Schwarzbeck	BBHA9120D	1356	1GHz~18GHz	Apr. 18, 2021	Jan. 10, 2022	Apr. 17, 2022	Radiation (03CH04-KS)
SHF-EHF Horn	Com-power	AH-840	101115	18GHz~40GHz	Jan. 05, 2022	Jan. 10, 2022	Jan. 04, 2023	Radiation (03CH04-KS)
Amplifier	SONOMA	310N	187289	9KHz-1GHz	Jan. 05, 2022	Jan. 10, 2022	Jan. 04, 2023	Radiation (03CH04-KS)
Amplifier	MITEQ	EM18G40G GA	060728	18~40GHz	Jan. 05, 2022	Jan. 10, 2022	Jan. 04, 2023	Radiation (03CH04-KS)
high gain Amplifier	MITEQ	AMF-7D-00 101800-30-1 0P	2025788	1Ghz-18Ghz	Jul. 30, 2021	Jan. 10, 2022	Jul. 29, 2022	Radiation (03CH04-KS)
Amplifier	Keysight	83017A	MY57280106	500MHz~26.5GHz	Oct. 13, 2021	Jan. 10, 2022	Oct. 12, 2022	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Jan. 10, 2022	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Jan. 10, 2022	NCR	Radiation (03CH04-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Jan. 10, 2022	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% ( $U = 2Uc(y)$ )	3.3dB
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### Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	2.8dB
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## Appendix A. Test Results of Conducted Test

Test Engineer :	Jung Kuo	Temperature :	22~23°C
		Relative Humidity :	40~42%

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## Transmitter Conducted Output Power And ERP/EIRP

NR	SCS	Bandwidth	Arfcn	Freq	Modulation	RB	Conducted Power(dBm)	EIRP (dBm)	EIRP (W)
Band	(kHz)	(MHz)		(MHz)					
77	30	10	630334	3455.01	DFT-s-OFDM PI/2 BPSK	12@6	26.1	23.7	0.2344
77	30	10	630334	3455.01	DFT-s-OFDM PI/2 BPSK	1@1	26.01	23.61	0.2296
77	30	10	630334	3455.01	DFT-s-OFDM PI/2 BPSK	1@22	25.93	23.53	0.2254
77	30	10	630334	3455.01	DFT-s-OFDM QPSK	12@6	26.19	23.79	0.2393
77	30	10	630334	3455.01	DFT-s-OFDM QPSK	1@1	26.06	23.66	0.2323
77	30	10	630334	3455.01	DFT-s-OFDM QPSK	1@22	25.94	23.54	0.2259
77	30	10	630334	3455.01	DFT-s-OFDM 16 QAM	12@6	25.11	22.71	0.1866
77	30	10	630334	3455.01	DFT-s-OFDM 16 QAM	1@1	25.06	22.66	0.1845
77	30	10	630334	3455.01	DFT-s-OFDM 16 QAM	1@22	25.18	22.78	0.1897
77	30	10	630334	3455.01	DFT-s-OFDM 64 QAM	12@6	23.58	21.18	0.1312
77	30	10	630334	3455.01	DFT-s-OFDM 64 QAM	1@1	23.28	20.88	0.1225
77	30	10	630334	3455.01	DFT-s-OFDM 64 QAM	1@22	23.53	21.13	0.1297
77	30	10	630334	3455.01	DFT-s-OFDM 256 QAM	12@6	21.56	19.16	0.0824
77	30	10	630334	3455.01	DFT-s-OFDM 256 QAM	1@1	21.39	18.99	0.0793
77	30	10	630334	3455.01	DFT-s-OFDM 256 QAM	1@22	21.34	18.94	0.0783
77	30	10	630334	3455.01	CP-OFDM QPSK	12@6	24.58	22.18	0.1652
77	30	10	630334	3455.01	CP-OFDM QPSK	1@1	24.46	22.06	0.1607
77	30	10	630334	3455.01	CP-OFDM QPSK	1@22	24.5	22.1	0.1622
77	30	10	633334	3500.01	DFT-s-OFDM PI/2 BPSK	12@6	25.91	23.51	0.2244
77	30	10	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	25.91	23.51	0.2244
77	30	10	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@22	25.91	23.51	0.2244
77	30	10	633334	3500.01	DFT-s-OFDM QPSK	12@6	25.96	23.56	0.2270
77	30	10	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.88	23.48	0.2228
77	30	10	633334	3500.01	DFT-s-OFDM QPSK	1@22	25.85	23.45	0.2213
77	30	10	633334	3500.01	DFT-s-OFDM 16 QAM	12@6	25.01	22.61	0.1824

77	30	10	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	25.04	22.64	0.1837
77	30	10	633334	3500.01	DFT-s-OFDM 16 QAM	1@22	25.07	22.67	0.1849
77	30	10	633334	3500.01	DFT-s-OFDM 64 QAM	12@6	23.35	20.95	0.1245
77	30	10	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	23.26	20.86	0.1219
77	30	10	633334	3500.01	DFT-s-OFDM 64 QAM	1@22	23.24	20.84	0.1213
77	30	10	633334	3500.01	DFT-s-OFDM 256 QAM	12@6	21.47	19.07	0.0807
77	30	10	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	20.99	18.59	0.0723
77	30	10	633334	3500.01	DFT-s-OFDM 256 QAM	1@22	20.99	18.59	0.0723
77	30	10	633334	3500.01	CP-OFDM QPSK	12@6	24.49	22.09	0.1618
77	30	10	633334	3500.01	CP-OFDM QPSK	1@1	24.41	22.01	0.1589
77	30	10	633334	3500.01	CP-OFDM QPSK	1@22	24.36	21.96	0.1570
77	30	10	636332	3544.98	DFT-s-OFDM PI/2 BPSK	12@6	25.9	23.5	0.2239
77	30	10	636332	3544.98	DFT-s-OFDM PI/2 BPSK	1@1	25.93	23.53	0.2254
77	30	10	636332	3544.98	DFT-s-OFDM PI/2 BPSK	1@22	25.81	23.41	0.2193
77	30	10	636332	3544.98	DFT-s-OFDM QPSK	12@6	26.05	23.65	0.2317
77	30	10	636332	3544.98	DFT-s-OFDM QPSK	1@1	25.9	23.5	0.2239
77	30	10	636332	3544.98	DFT-s-OFDM QPSK	1@22	25.86	23.46	0.2218
77	30	10	636332	3544.98	DFT-s-OFDM 16 QAM	12@6	24.98	22.58	0.1811
77	30	10	636332	3544.98	DFT-s-OFDM 16 QAM	1@1	24.85	22.45	0.1758
77	30	10	636332	3544.98	DFT-s-OFDM 16 QAM	1@22	24.78	22.38	0.1730
77	30	10	636332	3544.98	DFT-s-OFDM 64 QAM	12@6	23.49	21.09	0.1285
77	30	10	636332	3544.98	DFT-s-OFDM 64 QAM	1@1	23.32	20.92	0.1236
77	30	10	636332	3544.98	DFT-s-OFDM 64 QAM	1@22	23.41	21.01	0.1262
77	30	10	636332	3544.98	DFT-s-OFDM 256 QAM	12@6	21.43	19.03	0.0800
77	30	10	636332	3544.98	DFT-s-OFDM 256 QAM	1@1	21.21	18.81	0.0760
77	30	10	636332	3544.98	DFT-s-OFDM 256 QAM	1@22	21.04	18.64	0.0731
77	30	10	636332	3544.98	CP-OFDM QPSK	12@6	24.51	22.11	0.1626
77	30	10	636332	3544.98	CP-OFDM QPSK	1@1	24.4	22	0.1585
77	30	10	636332	3544.98	CP-OFDM QPSK	1@22	24.36	21.96	0.1570
77	30	15	630500	3457.5	DFT-s-OFDM PI/2 BPSK	18@9	26.1	23.7	0.2344
77	30	15	630500	3457.5	DFT-s-OFDM PI/2 BPSK	1@1	26	23.6	0.2291

77	30	15	630500	3457.5	DFT-s-OFDM PI/2 BPSK	1@36	25.99	23.59	0.2286
77	30	15	630500	3457.5	DFT-s-OFDM QPSK	18@9	26.15	23.75	0.2371
77	30	15	630500	3457.5	DFT-s-OFDM QPSK	1@1	25.96	23.56	0.2270
77	30	15	630500	3457.5	DFT-s-OFDM QPSK	1@36	25.87	23.47	0.2223
77	30	15	630500	3457.5	DFT-s-OFDM 16 QAM	18@9	25.09	22.69	0.1858
77	30	15	630500	3457.5	DFT-s-OFDM 16 QAM	1@1	24.76	22.36	0.1722
77	30	15	630500	3457.5	DFT-s-OFDM 16 QAM	1@36	24.88	22.48	0.1770
77	30	15	630500	3457.5	DFT-s-OFDM 64 QAM	18@9	23.57	21.17	0.1309
77	30	15	630500	3457.5	DFT-s-OFDM 64 QAM	1@1	23.37	20.97	0.1250
77	30	15	630500	3457.5	DFT-s-OFDM 64 QAM	1@36	23.46	21.06	0.1276
77	30	15	630500	3457.5	DFT-s-OFDM 256 QAM	18@9	21.56	19.16	0.0824
77	30	15	630500	3457.5	DFT-s-OFDM 256 QAM	1@1	21.15	18.75	0.0750
77	30	15	630500	3457.5	DFT-s-OFDM 256 QAM	1@36	21.17	18.77	0.0753
77	30	15	630500	3457.5	CP-OFDM QPSK	19@9	24.67	22.27	0.1687
77	30	15	630500	3457.5	CP-OFDM QPSK	1@1	24.49	22.09	0.1618
77	30	15	630500	3457.5	CP-OFDM QPSK	1@36	24.38	21.98	0.1578
77	30	15	633334	3500.01	DFT-s-OFDM PI/2 BPSK	18@9	25.9	23.5	0.2239
77	30	15	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	25.79	23.39	0.2183
77	30	15	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@36	25.88	23.48	0.2228
77	30	15	633334	3500.01	DFT-s-OFDM QPSK	18@9	25.97	23.57	0.2275
77	30	15	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.77	23.37	0.2173
77	30	15	633334	3500.01	DFT-s-OFDM QPSK	1@36	25.84	23.44	0.2208
77	30	15	633334	3500.01	DFT-s-OFDM 16 QAM	18@9	24.89	22.49	0.1774
77	30	15	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.76	22.36	0.1722
77	30	15	633334	3500.01	DFT-s-OFDM 16 QAM	1@36	24.84	22.44	0.1754
77	30	15	633334	3500.01	DFT-s-OFDM 64 QAM	18@9	23.45	21.05	0.1274
77	30	15	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	23.34	20.94	0.1242
77	30	15	633334	3500.01	DFT-s-OFDM 64 QAM	1@36	23.24	20.84	0.1213
77	30	15	633334	3500.01	DFT-s-OFDM 256 QAM	18@9	21.43	19.03	0.0800
77	30	15	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	20.98	18.58	0.0721
77	30	15	633334	3500.01	DFT-s-OFDM 256 QAM	1@36	20.94	18.54	0.0714

77	30	15	633334	3500.01	CP-OFDM QPSK	19@9	24.36	21.96	0.1570
77	30	15	633334	3500.01	CP-OFDM QPSK	1@1	24.31	21.91	0.1552
77	30	15	633334	3500.01	CP-OFDM QPSK	1@36	24.29	21.89	0.1545
77	30	15	636166	3542.49	DFT-s-OFDM PI/2 BPSK	18@9	25.88	23.48	0.2228
77	30	15	636166	3542.49	DFT-s-OFDM PI/2 BPSK	1@1	25.86	23.46	0.2218
77	30	15	636166	3542.49	DFT-s-OFDM PI/2 BPSK	1@36	25.81	23.41	0.2193
77	30	15	636166	3542.49	DFT-s-OFDM QPSK	18@9	25.92	23.52	0.2249
77	30	15	636166	3542.49	DFT-s-OFDM QPSK	1@1	25.84	23.44	0.2208
77	30	15	636166	3542.49	DFT-s-OFDM QPSK	1@36	25.72	23.32	0.2148
77	30	15	636166	3542.49	DFT-s-OFDM 16 QAM	18@9	24.91	22.51	0.1782
77	30	15	636166	3542.49	DFT-s-OFDM 16 QAM	1@1	24.99	22.59	0.1816
77	30	15	636166	3542.49	DFT-s-OFDM 16 QAM	1@36	24.72	22.32	0.1706
77	30	15	636166	3542.49	DFT-s-OFDM 64 QAM	18@9	23.35	20.95	0.1245
77	30	15	636166	3542.49	DFT-s-OFDM 64 QAM	1@1	23.39	20.99	0.1256
77	30	15	636166	3542.49	DFT-s-OFDM 64 QAM	1@36	23.33	20.93	0.1239
77	30	15	636166	3542.49	DFT-s-OFDM 256 QAM	18@9	21.41	19.01	0.0796
77	30	15	636166	3542.49	DFT-s-OFDM 256 QAM	1@1	21.1	18.7	0.0741
77	30	15	636166	3542.49	DFT-s-OFDM 256 QAM	1@36	21.27	18.87	0.0771
77	30	15	636166	3542.49	CP-OFDM QPSK	19@9	24.49	22.09	0.1618
77	30	15	636166	3542.49	CP-OFDM QPSK	1@1	24.38	21.98	0.1578
77	30	15	636166	3542.49	CP-OFDM QPSK	1@36	24.25	21.85	0.1531
77	30	20	630668	3460.02	DFT-s-OFDM PI/2 BPSK	25@12	26.08	23.68	0.2333
77	30	20	630668	3460.02	DFT-s-OFDM PI/2 BPSK	1@1	25.95	23.55	0.2265
77	30	20	630668	3460.02	DFT-s-OFDM PI/2 BPSK	1@49	25.92	23.52	0.2249
77	30	20	630668	3460.02	DFT-s-OFDM QPSK	25@12	26.13	23.73	0.2360
77	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@1	25.91	23.51	0.2244
77	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@49	25.88	23.48	0.2228
77	30	20	630668	3460.02	DFT-s-OFDM 16 QAM	25@12	25.14	22.74	0.1879
77	30	20	630668	3460.02	DFT-s-OFDM 16 QAM	1@1	25.03	22.63	0.1832
77	30	20	630668	3460.02	DFT-s-OFDM 16 QAM	1@49	25.06	22.66	0.1845
77	30	20	630668	3460.02	DFT-s-OFDM 64 QAM	25@12	23.63	21.23	0.1327

77	30	20	630668	3460.02	DFT-s-OFDM 64 QAM	1@1	23.29	20.89	0.1227
77	30	20	630668	3460.02	DFT-s-OFDM 64 QAM	1@49	23.43	21.03	0.1268
77	30	20	630668	3460.02	DFT-s-OFDM 256 QAM	25@12	21.52	19.12	0.0817
77	30	20	630668	3460.02	DFT-s-OFDM 256 QAM	1@1	21.22	18.82	0.0762
77	30	20	630668	3460.02	DFT-s-OFDM 256 QAM	1@49	21.09	18.69	0.0740
77	30	20	630668	3460.02	CP-OFDM QPSK	25@12	24.66	22.26	0.1683
77	30	20	630668	3460.02	CP-OFDM QPSK	1@1	24.43	22.03	0.1596
77	30	20	630668	3460.02	CP-OFDM QPSK	1@49	24.44	22.04	0.1600
77	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	25@12	25.99	23.59	0.2286
77	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	25.79	23.39	0.2183
77	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@49	25.82	23.42	0.2198
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	25@12	25.98	23.58	0.2280
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.84	23.44	0.2208
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@49	25.81	23.41	0.2193
77	30	20	633334	3500.01	DFT-s-OFDM 16 QAM	25@12	24.99	22.59	0.1816
77	30	20	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.57	22.17	0.1648
77	30	20	633334	3500.01	DFT-s-OFDM 16 QAM	1@49	24.59	22.19	0.1656
77	30	20	633334	3500.01	DFT-s-OFDM 64 QAM	25@12	23.49	21.09	0.1285
77	30	20	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	23.31	20.91	0.1233
77	30	20	633334	3500.01	DFT-s-OFDM 64 QAM	1@49	23.27	20.87	0.1222
77	30	20	633334	3500.01	DFT-s-OFDM 256 QAM	25@12	21.34	18.94	0.0783
77	30	20	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	21.07	18.67	0.0736
77	30	20	633334	3500.01	DFT-s-OFDM 256 QAM	1@49	20.93	18.53	0.0713
77	30	20	633334	3500.01	CP-OFDM QPSK	25@12	24.46	22.06	0.1607
77	30	20	633334	3500.01	CP-OFDM QPSK	1@1	24.39	21.99	0.1581
77	30	20	633334	3500.01	CP-OFDM QPSK	1@49	24.36	21.96	0.1570
77	30	20	636000	3540	DFT-s-OFDM PI/2 BPSK	25@12	25.9	23.5	0.2239
77	30	20	636000	3540	DFT-s-OFDM PI/2 BPSK	1@1	25.9	23.5	0.2239
77	30	20	636000	3540	DFT-s-OFDM PI/2 BPSK	1@49	25.66	23.26	0.2118
77	30	20	636000	3540	DFT-s-OFDM QPSK	25@12	25.92	23.52	0.2249
77	30	20	636000	3540	DFT-s-OFDM QPSK	1@1	25.88	23.48	0.2228

77	30	20	636000	3540	DFT-s-OFDM QPSK	1@49	25.62	23.22	0.2099
77	30	20	636000	3540	DFT-s-OFDM 16 QAM	25@12	24.98	22.58	0.1811
77	30	20	636000	3540	DFT-s-OFDM 16 QAM	1@1	24.82	22.42	0.1746
77	30	20	636000	3540	DFT-s-OFDM 16 QAM	1@49	24.71	22.31	0.1702
77	30	20	636000	3540	DFT-s-OFDM 64 QAM	25@12	23.34	20.94	0.1242
77	30	20	636000	3540	DFT-s-OFDM 64 QAM	1@1	23.36	20.96	0.1247
77	30	20	636000	3540	DFT-s-OFDM 64 QAM	1@49	23.16	20.76	0.1191
77	30	20	636000	3540	DFT-s-OFDM 256 QAM	25@12	21.36	18.96	0.0787
77	30	20	636000	3540	DFT-s-OFDM 256 QAM	1@1	21.15	18.75	0.0750
77	30	20	636000	3540	DFT-s-OFDM 256 QAM	1@49	20.88	18.48	0.0705
77	30	20	636000	3540	CP-OFDM QPSK	25@12	24.42	22.02	0.1592
77	30	20	636000	3540	CP-OFDM QPSK	1@1	24.38	21.98	0.1578
77	30	20	636000	3540	CP-OFDM QPSK	1@49	24.28	21.88	0.1542
77	30	40	631334	3470.01	DFT-s-OFDM PI/2 BPSK	50@25	26.03	23.63	0.2307
77	30	40	631334	3470.01	DFT-s-OFDM PI/2 BPSK	1@1	25.62	23.22	0.2099
77	30	40	631334	3470.01	DFT-s-OFDM PI/2 BPSK	1@104	25.38	22.98	0.1986
77	30	40	631334	3470.01	DFT-s-OFDM QPSK	50@25	26.1	23.7	0.2344
77	30	40	631334	3470.01	DFT-s-OFDM QPSK	1@1	25.57	23.17	0.2075
77	30	40	631334	3470.01	DFT-s-OFDM QPSK	1@104	25.29	22.89	0.1945
77	30	40	631334	3470.01	DFT-s-OFDM 16 QAM	50@25	25.09	22.69	0.1858
77	30	40	631334	3470.01	DFT-s-OFDM 16 QAM	1@1	24.65	22.25	0.1679
77	30	40	631334	3470.01	DFT-s-OFDM 16 QAM	1@104	24.32	21.92	0.1556
77	30	40	631334	3470.01	DFT-s-OFDM 64 QAM	50@25	23.6	21.2	0.1318
77	30	40	631334	3470.01	DFT-s-OFDM 64 QAM	1@1	23.19	20.79	0.1199
77	30	40	631334	3470.01	DFT-s-OFDM 64 QAM	1@104	23.03	20.63	0.1156
77	30	40	631334	3470.01	DFT-s-OFDM 256 QAM	50@25	21.56	19.16	0.0824
77	30	40	631334	3470.01	DFT-s-OFDM 256 QAM	1@1	20.82	18.42	0.0695
77	30	40	631334	3470.01	DFT-s-OFDM 256 QAM	1@104	20.65	18.25	0.0668
77	30	40	631334	3470.01	CP-OFDM QPSK	53@26	24.65	22.25	0.1679
77	30	40	631334	3470.01	CP-OFDM QPSK	1@1	24.08	21.68	0.1472
77	30	40	631334	3470.01	CP-OFDM QPSK	1@104	23.88	21.48	0.1406



77	30	40	633334	3500.01	DFT-s-OFDM PI/2 BPSK	50@25	25.95	23.55	0.2265
77	30	40	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	25.63	23.23	0.2104
77	30	40	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@104	25.41	23.01	0.2000
77	30	40	633334	3500.01	DFT-s-OFDM QPSK	50@25	25.92	23.52	0.2249
77	30	40	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.68	23.28	0.2128
77	30	40	633334	3500.01	DFT-s-OFDM QPSK	1@104	25.39	22.99	0.1991
77	30	40	633334	3500.01	DFT-s-OFDM 16 QAM	50@25	24.93	22.53	0.1791
77	30	40	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.71	22.31	0.1702
77	30	40	633334	3500.01	DFT-s-OFDM 16 QAM	1@104	24.46	22.06	0.1607
77	30	40	633334	3500.01	DFT-s-OFDM 64 QAM	50@25	23.45	21.05	0.1274
77	30	40	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	23.21	20.81	0.1205
77	30	40	633334	3500.01	DFT-s-OFDM 64 QAM	1@104	22.96	20.56	0.1138
77	30	40	633334	3500.01	DFT-s-OFDM 256 QAM	50@25	21.4	19	0.0794
77	30	40	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	20.79	18.39	0.0690
77	30	40	633334	3500.01	DFT-s-OFDM 256 QAM	1@104	20.83	18.43	0.0697
77	30	40	633334	3500.01	CP-OFDM QPSK	53@26	24.43	22.03	0.1596
77	30	40	633334	3500.01	CP-OFDM QPSK	1@1	24.29	21.89	0.1545
77	30	40	633334	3500.01	CP-OFDM QPSK	1@104	24.14	21.74	0.1493
77	30	40	635332	3529.98	DFT-s-OFDM PI/2 BPSK	50@25	25.95	23.55	0.2265
77	30	40	635332	3529.98	DFT-s-OFDM PI/2 BPSK	1@1	25.61	23.21	0.2094
77	30	40	635332	3529.98	DFT-s-OFDM PI/2 BPSK	1@104	25.37	22.97	0.1982
77	30	40	635332	3529.98	DFT-s-OFDM QPSK	50@25	25.94	23.54	0.2259
77	30	40	635332	3529.98	DFT-s-OFDM QPSK	1@1	25.52	23.12	0.2051
77	30	40	635332	3529.98	DFT-s-OFDM QPSK	1@104	25.32	22.92	0.1959
77	30	40	635332	3529.98	DFT-s-OFDM 16 QAM	50@25	24.89	22.49	0.1774
77	30	40	635332	3529.98	DFT-s-OFDM 16 QAM	1@1	24.84	22.44	0.1754
77	30	40	635332	3529.98	DFT-s-OFDM 16 QAM	1@104	24.38	21.98	0.1578
77	30	40	635332	3529.98	DFT-s-OFDM 64 QAM	50@25	23.43	21.03	0.1268
77	30	40	635332	3529.98	DFT-s-OFDM 64 QAM	1@1	23.08	20.68	0.1169
77	30	40	635332	3529.98	DFT-s-OFDM 64 QAM	1@104	23.05	20.65	0.1161
77	30	40	635332	3529.98	DFT-s-OFDM 256 QAM	50@25	21.41	19.01	0.0796

77	30	40	635332	3529.98	DFT-s-OFDM 256 QAM	1@1	20.96	18.56	0.0718
77	30	40	635332	3529.98	DFT-s-OFDM 256 QAM	1@104	20.78	18.38	0.0689
77	30	40	635332	3529.98	CP-OFDM QPSK	53@26	24.51	22.11	0.1626
77	30	40	635332	3529.98	CP-OFDM QPSK	1@1	24.03	21.63	0.1455
77	30	40	635332	3529.98	CP-OFDM QPSK	1@104	24.11	21.71	0.1483
77	30	50	631668	3475.02	DFT-s-OFDM PI/2 BPSK	64@32	26.08	23.68	0.2333
77	30	50	631668	3475.02	DFT-s-OFDM PI/2 BPSK	1@1	25.85	23.45	0.2213
77	30	50	631668	3475.02	DFT-s-OFDM PI/2 BPSK	1@131	25.57	23.17	0.2075
77	30	50	631668	3475.02	DFT-s-OFDM QPSK	64@32	26.1	23.7	0.2344
77	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@1	25.86	23.46	0.2218
77	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@131	25.61	23.21	0.2094
77	30	50	631668	3475.02	DFT-s-OFDM 16 QAM	64@32	25.1	22.7	0.1862
77	30	50	631668	3475.02	DFT-s-OFDM 16 QAM	1@1	24.91	22.51	0.1782
77	30	50	631668	3475.02	DFT-s-OFDM 16 QAM	1@131	24.7	22.3	0.1698
77	30	50	631668	3475.02	DFT-s-OFDM 64 QAM	64@32	23.59	21.19	0.1315
77	30	50	631668	3475.02	DFT-s-OFDM 64 QAM	1@1	23.28	20.88	0.1225
77	30	50	631668	3475.02	DFT-s-OFDM 64 QAM	1@131	23.02	20.62	0.1153
77	30	50	631668	3475.02	DFT-s-OFDM 256 QAM	64@32	21.59	19.19	0.0830
77	30	50	631668	3475.02	DFT-s-OFDM 256 QAM	1@1	21.05	18.65	0.0733
77	30	50	631668	3475.02	DFT-s-OFDM 256 QAM	1@131	21.06	18.66	0.0735
77	30	50	631668	3475.02	CP-OFDM QPSK	67@33	24.53	22.13	0.1633
77	30	50	631668	3475.02	CP-OFDM QPSK	1@1	24.38	21.98	0.1578
77	30	50	631668	3475.02	CP-OFDM QPSK	1@131	24.15	21.75	0.1496
77	30	50	633334	3500.01	DFT-s-OFDM PI/2 BPSK	64@32	25.9	23.5	0.2239
77	30	50	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	25.87	23.47	0.2223
77	30	50	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@131	25.62	23.22	0.2099
77	30	50	633334	3500.01	DFT-s-OFDM QPSK	64@32	25.99	23.59	0.2286
77	30	50	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.93	23.53	0.2254
77	30	50	633334	3500.01	DFT-s-OFDM QPSK	1@131	25.57	23.17	0.2075
77	30	50	633334	3500.01	DFT-s-OFDM 16 QAM	64@32	24.99	22.59	0.1816
77	30	50	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.84	22.44	0.1754

77	30	50	633334	3500.01	DFT-s-OFDM 16 QAM	1@131	24.59	22.19	0.1656
77	30	50	633334	3500.01	DFT-s-OFDM 64 QAM	64@32	23.46	21.06	0.1276
77	30	50	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	23.29	20.89	0.1227
77	30	50	633334	3500.01	DFT-s-OFDM 64 QAM	1@131	23	20.6	0.1148
77	30	50	633334	3500.01	DFT-s-OFDM 256 QAM	64@32	17.09	14.69	0.0294
77	30	50	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	21.28	18.88	0.0773
77	30	50	633334	3500.01	DFT-s-OFDM 256 QAM	1@131	20.9	18.5	0.0708
77	30	50	633334	3500.01	CP-OFDM QPSK	67@33	24.52	22.12	0.1629
77	30	50	633334	3500.01	CP-OFDM QPSK	1@1	24.5	22.1	0.1622
77	30	50	633334	3500.01	CP-OFDM QPSK	1@131	24.14	21.74	0.1493
77	30	50	635000	3525	DFT-s-OFDM PI/2 BPSK	64@32	26	23.6	0.2291
77	30	50	635000	3525	DFT-s-OFDM PI/2 BPSK	1@1	25.84	23.44	0.2208
77	30	50	635000	3525	DFT-s-OFDM PI/2 BPSK	1@131	25.58	23.18	0.2080
77	30	50	635000	3525	DFT-s-OFDM QPSK	64@32	26.09	23.69	0.2339
77	30	50	635000	3525	DFT-s-OFDM QPSK	1@1	25.78	23.38	0.2178
77	30	50	635000	3525	DFT-s-OFDM QPSK	1@131	25.61	23.21	0.2094
77	30	50	635000	3525	DFT-s-OFDM 16 QAM	64@32	25.04	22.64	0.1837
77	30	50	635000	3525	DFT-s-OFDM 16 QAM	1@1	24.72	22.32	0.1706
77	30	50	635000	3525	DFT-s-OFDM 16 QAM	1@131	24.33	21.93	0.1560
77	30	50	635000	3525	DFT-s-OFDM 64 QAM	64@32	23.52	21.12	0.1294
77	30	50	635000	3525	DFT-s-OFDM 64 QAM	1@1	23.49	21.09	0.1285
77	30	50	635000	3525	DFT-s-OFDM 64 QAM	1@131	23.19	20.79	0.1199
77	30	50	635000	3525	DFT-s-OFDM 256 QAM	64@32	21.51	19.11	0.0815
77	30	50	635000	3525	DFT-s-OFDM 256 QAM	1@1	21.22	18.82	0.0762
77	30	50	635000	3525	DFT-s-OFDM 256 QAM	1@131	20.85	18.45	0.0700
77	30	50	635000	3525	CP-OFDM QPSK	67@33	24.51	22.11	0.1626
77	30	50	635000	3525	CP-OFDM QPSK	1@1	24.42	22.02	0.1592
77	30	50	635000	3525	CP-OFDM QPSK	1@131	24.18	21.78	0.1507
77	30	60	632000	3480	DFT-s-OFDM PI/2 BPSK	81@40	26.05	23.65	0.2317
77	30	60	632000	3480	DFT-s-OFDM PI/2 BPSK	1@1	25.91	23.51	0.2244
77	30	60	632000	3480	DFT-s-OFDM PI/2 BPSK	1@160	25.55	23.15	0.2065

77	30	60	632000	3480	DFT-s-OFDM QPSK	81@40	26.12	23.72	0.2355
77	30	60	632000	3480	DFT-s-OFDM QPSK	1@1	25.9	23.5	0.2239
77	30	60	632000	3480	DFT-s-OFDM QPSK	1@160	25.49	23.09	0.2037
77	30	60	632000	3480	DFT-s-OFDM 16 QAM	81@40	25.04	22.64	0.1837
77	30	60	632000	3480	DFT-s-OFDM 16 QAM	1@1	24.93	22.53	0.1791
77	30	60	632000	3480	DFT-s-OFDM 16 QAM	1@160	24.54	22.14	0.1637
77	30	60	632000	3480	DFT-s-OFDM 64 QAM	81@40	23.51	21.11	0.1291
77	30	60	632000	3480	DFT-s-OFDM 64 QAM	1@1	23.16	20.76	0.1191
77	30	60	632000	3480	DFT-s-OFDM 64 QAM	1@160	22.98	20.58	0.1143
77	30	60	632000	3480	DFT-s-OFDM 256 QAM	81@40	21.55	19.15	0.0822
77	30	60	632000	3480	DFT-s-OFDM 256 QAM	1@1	21.29	18.89	0.0774
77	30	60	632000	3480	DFT-s-OFDM 256 QAM	1@160	20.88	18.48	0.0705
77	30	60	632000	3480	CP-OFDM QPSK	81@40	24.55	22.15	0.1641
77	30	60	632000	3480	CP-OFDM QPSK	1@1	24.47	22.07	0.1611
77	30	60	632000	3480	CP-OFDM QPSK	1@160	24.18	21.78	0.1507
77	30	60	633334	3500.01	DFT-s-OFDM PI/2 BPSK	81@40	25.95	23.55	0.2265
77	30	60	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	25.84	23.44	0.2208
77	30	60	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@160	25.54	23.14	0.2061
77	30	60	633334	3500.01	DFT-s-OFDM QPSK	81@40	26	23.6	0.2291
77	30	60	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.77	23.37	0.2173
77	30	60	633334	3500.01	DFT-s-OFDM QPSK	1@160	25.51	23.11	0.2046
77	30	60	633334	3500.01	DFT-s-OFDM 16 QAM	81@40	24.97	22.57	0.1807
77	30	60	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.91	22.51	0.1782
77	30	60	633334	3500.01	DFT-s-OFDM 16 QAM	1@160	24.53	22.13	0.1633
77	30	60	633334	3500.01	DFT-s-OFDM 64 QAM	81@40	23.44	21.04	0.1271
77	30	60	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	23.49	21.09	0.1285
77	30	60	633334	3500.01	DFT-s-OFDM 64 QAM	1@160	22.94	20.54	0.1132
77	30	60	633334	3500.01	DFT-s-OFDM 256 QAM	81@40	21.34	18.94	0.0783
77	30	60	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	21.1	18.7	0.0741
77	30	60	633334	3500.01	DFT-s-OFDM 256 QAM	1@160	20.74	18.34	0.0682
77	30	60	633334	3500.01	CP-OFDM QPSK	81@40	24.43	22.03	0.1596

77	30	60	633334	3500.01	CP-OFDM QPSK	1@1	24.46	22.06	0.1607
77	30	60	633334	3500.01	CP-OFDM QPSK	1@160	24.04	21.64	0.1459
77	30	60	634666	3519.99	DFT-s-OFDM PI/2 BPSK	81@40	25.96	23.56	0.2270
77	30	60	634666	3519.99	DFT-s-OFDM PI/2 BPSK	1@1	25.85	23.45	0.2213
77	30	60	634666	3519.99	DFT-s-OFDM PI/2 BPSK	1@160	25.6	23.2	0.2089
77	30	60	634666	3519.99	DFT-s-OFDM QPSK	81@40	26.05	23.65	0.2317
77	30	60	634666	3519.99	DFT-s-OFDM QPSK	1@1	25.88	23.48	0.2228
77	30	60	634666	3519.99	DFT-s-OFDM QPSK	1@160	25.54	23.14	0.2061
77	30	60	634666	3519.99	DFT-s-OFDM 16 QAM	81@40	25.05	22.65	0.1841
77	30	60	634666	3519.99	DFT-s-OFDM 16 QAM	1@1	24.79	22.39	0.1734
77	30	60	634666	3519.99	DFT-s-OFDM 16 QAM	1@160	24.53	22.13	0.1633
77	30	60	634666	3519.99	DFT-s-OFDM 64 QAM	81@40	23.51	21.11	0.1291
77	30	60	634666	3519.99	DFT-s-OFDM 64 QAM	1@1	23.34	20.94	0.1242
77	30	60	634666	3519.99	DFT-s-OFDM 64 QAM	1@160	23.01	20.61	0.1151
77	30	60	634666	3519.99	DFT-s-OFDM 256 QAM	81@40	21.52	19.12	0.0817
77	30	60	634666	3519.99	DFT-s-OFDM 256 QAM	1@1	20.99	18.59	0.0723
77	30	60	634666	3519.99	DFT-s-OFDM 256 QAM	1@160	20.88	18.48	0.0705
77	30	60	634666	3519.99	CP-OFDM QPSK	81@40	24.56	22.16	0.1644
77	30	60	634666	3519.99	CP-OFDM QPSK	1@1	24.46	22.06	0.1607
77	30	60	634666	3519.99	CP-OFDM QPSK	1@160	24.18	21.78	0.1507
77	30	80	632668	3490.02	DFT-s-OFDM PI/2 BPSK	108@54	26.1	23.7	0.2344
77	30	80	632668	3490.02	DFT-s-OFDM PI/2 BPSK	1@1	25.86	23.46	0.2218
77	30	80	632668	3490.02	DFT-s-OFDM PI/2 BPSK	1@215	25.43	23.03	0.2009
77	30	80	632668	3490.02	DFT-s-OFDM QPSK	108@54	26.1	23.7	0.2344
77	30	80	632668	3490.02	DFT-s-OFDM QPSK	1@1	25.81	23.41	0.2193
77	30	80	632668	3490.02	DFT-s-OFDM QPSK	1@215	25.48	23.08	0.2032
77	30	80	632668	3490.02	DFT-s-OFDM 16 QAM	108@54	25.06	22.66	0.1845
77	30	80	632668	3490.02	DFT-s-OFDM 16 QAM	1@1	24.88	22.48	0.1770
77	30	80	632668	3490.02	DFT-s-OFDM 16 QAM	1@215	24.38	21.98	0.1578
77	30	80	632668	3490.02	DFT-s-OFDM 64 QAM	108@54	23.56	21.16	0.1306
77	30	80	632668	3490.02	DFT-s-OFDM 64 QAM	1@1	23.05	20.65	0.1161

77	30	80	632668	3490.02	DFT-s-OFDM 64 QAM	1@215	22.77	20.37	0.1089
77	30	80	632668	3490.02	DFT-s-OFDM 256 QAM	108@54	21.49	19.09	0.0811
77	30	80	632668	3490.02	DFT-s-OFDM 256 QAM	1@1	21.21	18.81	0.0760
77	30	80	632668	3490.02	DFT-s-OFDM 256 QAM	1@215	20.54	18.14	0.0652
77	30	80	632668	3490.02	CP-OFDM QPSK	109@54	24.63	22.23	0.1671
77	30	80	632668	3490.02	CP-OFDM QPSK	1@1	24.27	21.87	0.1538
77	30	80	632668	3490.02	CP-OFDM QPSK	1@215	24	21.6	0.1445
77	30	80	633334	3500.01	DFT-s-OFDM PI/2 BPSK	108@54	25.95	23.55	0.2265
77	30	80	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	25.67	23.27	0.2123
77	30	80	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@215	25.32	22.92	0.1959
77	30	80	633334	3500.01	DFT-s-OFDM QPSK	108@54	25.91	23.51	0.2244
77	30	80	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.65	23.25	0.2113
77	30	80	633334	3500.01	DFT-s-OFDM QPSK	1@215	25.22	22.82	0.1914
77	30	80	633334	3500.01	DFT-s-OFDM 16 QAM	108@54	24.94	22.54	0.1795
77	30	80	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.77	22.37	0.1726
77	30	80	633334	3500.01	DFT-s-OFDM 16 QAM	1@215	24.25	21.85	0.1531
77	30	80	633334	3500.01	DFT-s-OFDM 64 QAM	108@54	23.48	21.08	0.1282
77	30	80	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	23.04	20.64	0.1159
77	30	80	633334	3500.01	DFT-s-OFDM 64 QAM	1@215	22.6	20.2	0.1047
77	30	80	633334	3500.01	DFT-s-OFDM 256 QAM	108@54	21.4	19	0.0794
77	30	80	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	20.83	18.43	0.0697
77	30	80	633334	3500.01	DFT-s-OFDM 256 QAM	1@215	20.79	18.39	0.0690
77	30	80	633334	3500.01	CP-OFDM QPSK	109@54	24.49	22.09	0.1618
77	30	80	633334	3500.01	CP-OFDM QPSK	1@1	24.18	21.78	0.1507
77	30	80	633334	3500.01	CP-OFDM QPSK	1@215	23.82	21.42	0.1387
77	30	80	634000	3510	DFT-s-OFDM PI/2 BPSK	108@54	26.01	23.61	0.2296
77	30	80	634000	3510	DFT-s-OFDM PI/2 BPSK	1@1	25.83	23.43	0.2203
77	30	80	634000	3510	DFT-s-OFDM PI/2 BPSK	1@215	25.28	22.88	0.1941
77	30	80	634000	3510	DFT-s-OFDM QPSK	108@54	26.05	23.65	0.2317
77	30	80	634000	3510	DFT-s-OFDM QPSK	1@1	25.71	23.31	0.2143
77	30	80	634000	3510	DFT-s-OFDM QPSK	1@215	25.31	22.91	0.1954

77	30	80	634000	3510	DFT-s-OFDM 16 QAM	108@54	24.99	22.59	0.1816
77	30	80	634000	3510	DFT-s-OFDM 16 QAM	1@1	24.68	22.28	0.1690
77	30	80	634000	3510	DFT-s-OFDM 16 QAM	1@215	24.2	21.8	0.1514
77	30	80	634000	3510	DFT-s-OFDM 64 QAM	108@54	23.47	21.07	0.1279
77	30	80	634000	3510	DFT-s-OFDM 64 QAM	1@1	23.08	20.68	0.1169
77	30	80	634000	3510	DFT-s-OFDM 64 QAM	1@215	22.67	20.27	0.1064
77	30	80	634000	3510	DFT-s-OFDM 256 QAM	108@54	21.37	18.97	0.0789
77	30	80	634000	3510	DFT-s-OFDM 256 QAM	1@1	20.82	18.42	0.0695
77	30	80	634000	3510	DFT-s-OFDM 256 QAM	1@215	20.34	17.94	0.0622
77	30	80	634000	3510	CP-OFDM QPSK	109@54	24.55	22.15	0.1641
77	30	80	634000	3510	CP-OFDM QPSK	1@1	24.27	21.87	0.1538
77	30	80	634000	3510	CP-OFDM QPSK	1@215	23.82	21.42	0.1387
77	30	90	633000	3495	DFT-s-OFDM PI/2 BPSK	120@60	26.05	23.65	0.2317
77	30	90	633000	3495	DFT-s-OFDM PI/2 BPSK	1@1	25.63	23.23	0.2104
77	30	90	633000	3495	DFT-s-OFDM PI/2 BPSK	1@243	25.25	22.85	0.1928
77	30	90	633000	3495	DFT-s-OFDM QPSK	120@60	26.06	23.66	0.2323
77	30	90	633000	3495	DFT-s-OFDM QPSK	1@1	25.57	23.17	0.2075
77	30	90	633000	3495	DFT-s-OFDM QPSK	1@243	25.14	22.74	0.1879
77	30	90	633000	3495	DFT-s-OFDM 16 QAM	120@60	25.02	22.62	0.1828
77	30	90	633000	3495	DFT-s-OFDM 16 QAM	1@1	24.61	22.21	0.1663
77	30	90	633000	3495	DFT-s-OFDM 16 QAM	1@243	24.22	21.82	0.1521
77	30	90	633000	3495	DFT-s-OFDM 64 QAM	120@60	23.47	21.07	0.1279
77	30	90	633000	3495	DFT-s-OFDM 64 QAM	1@1	23.03	20.63	0.1156
77	30	90	633000	3495	DFT-s-OFDM 64 QAM	1@243	22.63	20.23	0.1054
77	30	90	633000	3495	DFT-s-OFDM 256 QAM	120@60	21.47	19.07	0.0807
77	30	90	633000	3495	DFT-s-OFDM 256 QAM	1@1	20.72	18.32	0.0679
77	30	90	633000	3495	DFT-s-OFDM 256 QAM	1@243	20.47	18.07	0.0641
77	30	90	633000	3495	CP-OFDM QPSK	123@61	24.43	22.03	0.1596
77	30	90	633000	3495	CP-OFDM QPSK	1@1	24.21	21.81	0.1517
77	30	90	633000	3495	CP-OFDM QPSK	1@243	23.67	21.27	0.1340
77	30	90	633334	3500.01	DFT-s-OFDM PI/2 BPSK	120@60	25.98	23.58	0.2280

77	30	90	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	25.55	23.15	0.2065
77	30	90	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@243	25.15	22.75	0.1884
77	30	90	633334	3500.01	DFT-s-OFDM QPSK	120@60	25.98	23.58	0.2280
77	30	90	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.51	23.11	0.2046
77	30	90	633334	3500.01	DFT-s-OFDM QPSK	1@243	25.15	22.75	0.1884
77	30	90	633334	3500.01	DFT-s-OFDM 16 QAM	120@60	24.99	22.59	0.1816
77	30	90	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.38	21.98	0.1578
77	30	90	633334	3500.01	DFT-s-OFDM 16 QAM	1@243	23.99	21.59	0.1442
77	30	90	633334	3500.01	DFT-s-OFDM 64 QAM	120@60	23.48	21.08	0.1282
77	30	90	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	23.16	20.76	0.1191
77	30	90	633334	3500.01	DFT-s-OFDM 64 QAM	1@243	22.65	20.25	0.1059
77	30	90	633334	3500.01	DFT-s-OFDM 256 QAM	120@60	21.36	18.96	0.0787
77	30	90	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	20.79	18.39	0.0690
77	30	90	633334	3500.01	DFT-s-OFDM 256 QAM	1@243	20.56	18.16	0.0655
77	30	90	633334	3500.01	CP-OFDM QPSK	123@61	24.34	21.94	0.1563
77	30	90	633334	3500.01	CP-OFDM QPSK	1@1	24.04	21.64	0.1459
77	30	90	633334	3500.01	CP-OFDM QPSK	1@243	23.72	21.32	0.1355
77	30	90	633666	3504.99	DFT-s-OFDM PI/2 BPSK	120@60	25.94	23.54	0.2259
77	30	90	633666	3504.99	DFT-s-OFDM PI/2 BPSK	1@1	25.59	23.19	0.2084
77	30	90	633666	3504.99	DFT-s-OFDM PI/2 BPSK	1@243	25.08	22.68	0.1854
77	30	90	633666	3504.99	DFT-s-OFDM QPSK	120@60	25.95	23.55	0.2265
77	30	90	633666	3504.99	DFT-s-OFDM QPSK	1@1	25.63	23.23	0.2104
77	30	90	633666	3504.99	DFT-s-OFDM QPSK	1@243	25.08	22.68	0.1854
77	30	90	633666	3504.99	DFT-s-OFDM 16 QAM	120@60	24.97	22.57	0.1807
77	30	90	633666	3504.99	DFT-s-OFDM 16 QAM	1@1	24.61	22.21	0.1663
77	30	90	633666	3504.99	DFT-s-OFDM 16 QAM	1@243	24.13	21.73	0.1489
77	30	90	633666	3504.99	DFT-s-OFDM 64 QAM	120@60	23.42	21.02	0.1265
77	30	90	633666	3504.99	DFT-s-OFDM 64 QAM	1@1	22.99	20.59	0.1146
77	30	90	633666	3504.99	DFT-s-OFDM 64 QAM	1@243	22.67	20.27	0.1064
77	30	90	633666	3504.99	DFT-s-OFDM 256 QAM	120@60	21.35	18.95	0.0785
77	30	90	633666	3504.99	DFT-s-OFDM 256 QAM	1@1	20.87	18.47	0.0703



77	30	90	633666	3504.99	DFT-s-OFDM 256 QAM	1@243	20.47	18.07	0.0641
77	30	90	633666	3504.99	CP-OFDM QPSK	123@61	24.41	22.01	0.1589
77	30	90	633666	3504.99	CP-OFDM QPSK	1@1	24.1	21.7	0.1479
77	30	90	633666	3504.99	CP-OFDM QPSK	1@243	23.66	21.26	0.1337
77	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	135@67	25.91	23.51	0.2244
77	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	25.48	23.08	0.2032
77	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@271	24.98	22.58	0.1811
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	135@67	25.95	23.55	0.2265
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.41	23.01	0.2000
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@271	24.96	22.56	0.1803
77	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	135@67	24.97	22.57	0.1807
77	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.48	22.08	0.1614
77	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	1@271	23.96	21.56	0.1432
77	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	135@67	23.45	21.05	0.1274
77	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	22.85	20.45	0.1109
77	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	1@271	22.34	19.94	0.0986
77	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	135@67	21.4	19	0.0794
77	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	20.81	18.41	0.0693
77	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	1@271	20.34	17.94	0.0622
77	30	100	633334	3500.01	CP-OFDM QPSK	137@68	24.43	22.03	0.1596
77	30	100	633334	3500.01	CP-OFDM QPSK	1@1	23.99	21.59	0.1442
77	30	100	633334	3500.01	CP-OFDM QPSK	1@271	23.46	21.06	0.1276

# FR1 N78

## Transmitter Conducted Output Power And EIRP

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	EIRP (dBm)	EIRP (W)
78	30	10	630334	3455.01	DFT-s-OFDM PI/2 BPSK	12@6	26.12	22.12	0.1629
78	30	10	630334	3455.01	DFT-s-OFDM PI/2 BPSK	1@1	26.07	22.07	0.1611
78	30	10	630334	3455.01	DFT-s-OFDM PI/2 BPSK	1@22	25.98	21.98	0.1578
78	30	10	630334	3455.01	DFT-s-OFDM QPSK	12@6	26.14	22.14	0.1637
78	30	10	630334	3455.01	DFT-s-OFDM QPSK	1@1	26.06	22.06	0.1607
78	30	10	630334	3455.01	DFT-s-OFDM QPSK	1@22	26.03	22.03	0.1596
78	30	10	630334	3455.01	DFT-s-OFDM 16 QAM	12@6	25.16	21.16	0.1306
78	30	10	630334	3455.01	DFT-s-OFDM 16 QAM	1@1	25.26	21.26	0.1337
78	30	10	630334	3455.01	DFT-s-OFDM 16 QAM	1@22	25.22	21.22	0.1324
78	30	10	630334	3455.01	DFT-s-OFDM 64 QAM	12@6	23.67	19.67	0.0927
78	30	10	630334	3455.01	DFT-s-OFDM 64 QAM	1@1	23.41	19.41	0.0873
78	30	10	630334	3455.01	DFT-s-OFDM 64 QAM	1@22	23.49	19.49	0.0889
78	30	10	630334	3455.01	DFT-s-OFDM 256 QAM	12@6	21.63	17.63	0.0579
78	30	10	630334	3455.01	DFT-s-OFDM 256 QAM	1@1	21.29	17.29	0.0536
78	30	10	630334	3455.01	DFT-s-OFDM 256 QAM	1@22	21.25	17.25	0.0531
78	30	10	630334	3455.01	CP-OFDM QPSK	12@6	24.64	20.64	0.1159
78	30	10	630334	3455.01	CP-OFDM QPSK	1@1	24.59	20.59	0.1146
78	30	10	630334	3455.01	CP-OFDM QPSK	1@22	24.59	20.59	0.1146
78	30	10	633334	3500.01	DFT-s-OFDM PI/2 BPSK	12@6	25.84	21.84	0.1528
78	30	10	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	25.81	21.81	0.1517
78	30	10	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@22	25.8	21.8	0.1514
78	30	10	633334	3500.01	DFT-s-OFDM QPSK	12@6	25.91	21.91	0.1552
78	30	10	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.83	21.83	0.1524
78	30	10	633334	3500.01	DFT-s-OFDM QPSK	1@22	25.75	21.75	0.1496
78	30	10	633334	3500.01	DFT-s-OFDM 16 QAM	12@6	24.96	20.96	0.1247
78	30	10	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	25.05	21.05	0.1274
78	30	10	633334	3500.01	DFT-s-OFDM 16 QAM	1@22	24.99	20.99	0.1256

78	30	10	633334	3500.01	DFT-s-OFDM 64 QAM	12@6	23.45	19.45	0.0881
78	30	10	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	23.4	19.4	0.0871
78	30	10	633334	3500.01	DFT-s-OFDM 64 QAM	1@22	23.26	19.26	0.0843
78	30	10	633334	3500.01	DFT-s-OFDM 256 QAM	12@6	21.35	17.35	0.0543
78	30	10	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	21.21	17.21	0.0526
78	30	10	633334	3500.01	DFT-s-OFDM 256 QAM	1@22	21.1	17.1	0.0513
78	30	10	633334	3500.01	CP-OFDM QPSK	12@6	24.41	20.41	0.1099
78	30	10	633334	3500.01	CP-OFDM QPSK	1@1	24.55	20.55	0.1135
78	30	10	633334	3500.01	CP-OFDM QPSK	1@22	24.35	20.35	0.1084
78	30	10	636332	3544.98	DFT-s-OFDM PI/2 BPSK	12@6	25.97	21.97	0.1574
78	30	10	636332	3544.98	DFT-s-OFDM PI/2 BPSK	1@1	25.96	21.96	0.1570
78	30	10	636332	3544.98	DFT-s-OFDM PI/2 BPSK	1@22	25.94	21.94	0.1563
78	30	10	636332	3544.98	DFT-s-OFDM QPSK	12@6	26.02	22.02	0.1592
78	30	10	636332	3544.98	DFT-s-OFDM QPSK	1@1	25.99	21.99	0.1581
78	30	10	636332	3544.98	DFT-s-OFDM QPSK	1@22	25.89	21.89	0.1545
78	30	10	636332	3544.98	DFT-s-OFDM 16 QAM	12@6	25.09	21.09	0.1285
78	30	10	636332	3544.98	DFT-s-OFDM 16 QAM	1@1	25.24	21.24	0.1330
78	30	10	636332	3544.98	DFT-s-OFDM 16 QAM	1@22	25.06	21.06	0.1276
78	30	10	636332	3544.98	DFT-s-OFDM 64 QAM	12@6	23.54	19.54	0.0899
78	30	10	636332	3544.98	DFT-s-OFDM 64 QAM	1@1	23.33	19.33	0.0857
78	30	10	636332	3544.98	DFT-s-OFDM 64 QAM	1@22	23.2	19.2	0.0832
78	30	10	636332	3544.98	DFT-s-OFDM 256 QAM	12@6	21.49	17.49	0.0561
78	30	10	636332	3544.98	DFT-s-OFDM 256 QAM	1@1	21.55	17.55	0.0569
78	30	10	636332	3544.98	DFT-s-OFDM 256 QAM	1@22	21.29	17.29	0.0536
78	30	10	636332	3544.98	CP-OFDM QPSK	12@6	24.47	20.47	0.1114
78	30	10	636332	3544.98	CP-OFDM QPSK	1@1	24.58	20.58	0.1143
78	30	10	636332	3544.98	CP-OFDM QPSK	1@22	24.54	20.54	0.1132
78	30	15	630500	3457.5	DFT-s-OFDM PI/2 BPSK	18@9	26.08	22.08	0.1614
78	30	15	630500	3457.5	DFT-s-OFDM PI/2 BPSK	1@1	26.03	22.03	0.1596
78	30	15	630500	3457.5	DFT-s-OFDM PI/2 BPSK	1@36	25.98	21.98	0.1578
78	30	15	630500	3457.5	DFT-s-OFDM QPSK	18@9	26.13	22.13	0.1633
78	30	15	630500	3457.5	DFT-s-OFDM QPSK	1@1	26	22	0.1585
78	30	15	630500	3457.5	DFT-s-OFDM QPSK	1@36	25.98	21.98	0.1578
78	30	15	630500	3457.5	DFT-s-OFDM 16 QAM	18@9	25.13	21.13	0.1297

78	30	15	630500	3457.5	DFT-s-OFDM 16 QAM	1@1	25.24	21.24	0.1330
78	30	15	630500	3457.5	DFT-s-OFDM 16 QAM	1@36	25.13	21.13	0.1297
78	30	15	630500	3457.5	DFT-s-OFDM 64 QAM	18@9	23.67	19.67	0.0927
78	30	15	630500	3457.5	DFT-s-OFDM 64 QAM	1@1	23.28	19.28	0.0847
78	30	15	630500	3457.5	DFT-s-OFDM 64 QAM	1@36	23.23	19.23	0.0838
78	30	15	630500	3457.5	DFT-s-OFDM 256 QAM	18@9	21.54	17.54	0.0568
78	30	15	630500	3457.5	DFT-s-OFDM 256 QAM	1@1	21.27	17.27	0.0533
78	30	15	630500	3457.5	DFT-s-OFDM 256 QAM	1@36	21.31	17.31	0.0538
78	30	15	630500	3457.5	CP-OFDM QPSK	19@9	24.61	20.61	0.1151
78	30	15	630500	3457.5	CP-OFDM QPSK	1@1	24.57	20.57	0.1140
78	30	15	630500	3457.5	CP-OFDM QPSK	1@36	24.46	20.46	0.1112
78	30	15	633334	3500.01	DFT-s-OFDM PI/2 BPSK	18@9	25.91	21.91	0.1552
78	30	15	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	25.82	21.82	0.1521
78	30	15	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@36	25.85	21.85	0.1531
78	30	15	633334	3500.01	DFT-s-OFDM QPSK	18@9	25.94	21.94	0.1563
78	30	15	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.83	21.83	0.1524
78	30	15	633334	3500.01	DFT-s-OFDM QPSK	1@36	25.76	21.76	0.1500
78	30	15	633334	3500.01	DFT-s-OFDM 16 QAM	18@9	24.88	20.88	0.1225
78	30	15	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.86	20.86	0.1219
78	30	15	633334	3500.01	DFT-s-OFDM 16 QAM	1@36	24.73	20.73	0.1183
78	30	15	633334	3500.01	DFT-s-OFDM 64 QAM	18@9	23.41	19.41	0.0873
78	30	15	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	23.28	19.28	0.0847
78	30	15	633334	3500.01	DFT-s-OFDM 64 QAM	1@36	23.01	19.01	0.0796
78	30	15	633334	3500.01	DFT-s-OFDM 256 QAM	18@9	21.39	17.39	0.0548
78	30	15	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	21.2	17.2	0.0525
78	30	15	633334	3500.01	DFT-s-OFDM 256 QAM	1@36	20.94	16.94	0.0494
78	30	15	633334	3500.01	CP-OFDM QPSK	19@9	24.39	20.39	0.1094
78	30	15	633334	3500.01	CP-OFDM QPSK	1@1	24.29	20.29	0.1069
78	30	15	633334	3500.01	CP-OFDM QPSK	1@36	24.21	20.21	0.1050
78	30	15	636166	3542.49	DFT-s-OFDM PI/2 BPSK	18@9	25.98	21.98	0.1578
78	30	15	636166	3542.49	DFT-s-OFDM PI/2 BPSK	1@1	25.98	21.98	0.1578
78	30	15	636166	3542.49	DFT-s-OFDM PI/2 BPSK	1@36	25.82	21.82	0.1521
78	30	15	636166	3542.49	DFT-s-OFDM QPSK	18@9	26.06	22.06	0.1607
78	30	15	636166	3542.49	DFT-s-OFDM QPSK	1@1	25.95	21.95	0.1567

78	30	15	636166	3542.49	DFT-s-OFDM QPSK	1@36	25.8	21.8	0.1514
78	30	15	636166	3542.49	DFT-s-OFDM 16 QAM	18@9	25.03	21.03	0.1268
78	30	15	636166	3542.49	DFT-s-OFDM 16 QAM	1@1	24.98	20.98	0.1253
78	30	15	636166	3542.49	DFT-s-OFDM 16 QAM	1@36	24.89	20.89	0.1227
78	30	15	636166	3542.49	DFT-s-OFDM 64 QAM	18@9	23.47	19.47	0.0885
78	30	15	636166	3542.49	DFT-s-OFDM 64 QAM	1@1	23.52	19.52	0.0895
78	30	15	636166	3542.49	DFT-s-OFDM 64 QAM	1@36	23.45	19.45	0.0881
78	30	15	636166	3542.49	DFT-s-OFDM 256 QAM	18@9	21.38	17.38	0.0547
78	30	15	636166	3542.49	DFT-s-OFDM 256 QAM	1@1	21.16	17.16	0.0520
78	30	15	636166	3542.49	DFT-s-OFDM 256 QAM	1@36	21.09	17.09	0.0512
78	30	15	636166	3542.49	CP-OFDM QPSK	19@9	24.53	20.53	0.1130
78	30	15	636166	3542.49	CP-OFDM QPSK	1@1	24.45	20.45	0.1109
78	30	15	636166	3542.49	CP-OFDM QPSK	1@36	24.38	20.38	0.1091
78	30	20	630668	3460.02	DFT-s-OFDM PI/2 BPSK	25@12	26.1	22.1	0.1622
78	30	20	630668	3460.02	DFT-s-OFDM PI/2 BPSK	1@1	26.06	22.06	0.1607
78	30	20	630668	3460.02	DFT-s-OFDM PI/2 BPSK	1@49	26.02	22.02	0.1592
78	30	20	630668	3460.02	DFT-s-OFDM QPSK	25@12	26.12	22.12	0.1629
78	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@1	26.04	22.04	0.1600
78	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@49	25.91	21.91	0.1552
78	30	20	630668	3460.02	DFT-s-OFDM 16 QAM	25@12	25.12	21.12	0.1294
78	30	20	630668	3460.02	DFT-s-OFDM 16 QAM	1@1	25.04	21.04	0.1271
78	30	20	630668	3460.02	DFT-s-OFDM 16 QAM	1@49	25.2	21.2	0.1318
78	30	20	630668	3460.02	DFT-s-OFDM 64 QAM	25@12	23.62	19.62	0.0916
78	30	20	630668	3460.02	DFT-s-OFDM 64 QAM	1@1	23.5	19.5	0.0891
78	30	20	630668	3460.02	DFT-s-OFDM 64 QAM	1@49	23.7	19.7	0.0933
78	30	20	630668	3460.02	DFT-s-OFDM 256 QAM	25@12	21.51	17.51	0.0564
78	30	20	630668	3460.02	DFT-s-OFDM 256 QAM	1@1	21.23	17.23	0.0528
78	30	20	630668	3460.02	DFT-s-OFDM 256 QAM	1@49	21.2	17.2	0.0525
78	30	20	630668	3460.02	CP-OFDM QPSK	25@12	24.59	20.59	0.1146
78	30	20	630668	3460.02	CP-OFDM QPSK	1@1	24.58	20.58	0.1143
78	30	20	630668	3460.02	CP-OFDM QPSK	1@49	24.54	20.54	0.1132
78	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	25@12	25.82	21.82	0.1521
78	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	25.78	21.78	0.1507
78	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@49	25.77	21.77	0.1503

78	30	20	633334	3500.01	DFT-s-OFDM QPSK	25@12	25.9	21.9	0.1549
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.72	21.72	0.1486
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@49	25.7	21.7	0.1479
78	30	20	633334	3500.01	DFT-s-OFDM 16 QAM	25@12	24.89	20.89	0.1227
78	30	20	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.96	20.96	0.1247
78	30	20	633334	3500.01	DFT-s-OFDM 16 QAM	1@49	24.74	20.74	0.1186
78	30	20	633334	3500.01	DFT-s-OFDM 64 QAM	25@12	23.38	19.38	0.0867
78	30	20	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	23.48	19.48	0.0887
78	30	20	633334	3500.01	DFT-s-OFDM 64 QAM	1@49	23.25	19.25	0.0841
78	30	20	633334	3500.01	DFT-s-OFDM 256 QAM	25@12	21.29	17.29	0.0536
78	30	20	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	21.05	17.05	0.0507
78	30	20	633334	3500.01	DFT-s-OFDM 256 QAM	1@49	21.22	17.22	0.0527
78	30	20	633334	3500.01	CP-OFDM QPSK	25@12	24.37	20.37	0.1089
78	30	20	633334	3500.01	CP-OFDM QPSK	1@1	24.32	20.32	0.1076
78	30	20	633334	3500.01	CP-OFDM QPSK	1@49	24.35	20.35	0.1084
78	30	20	636000	3540	DFT-s-OFDM PI/2 BPSK	25@12	25.95	21.95	0.1567
78	30	20	636000	3540	DFT-s-OFDM PI/2 BPSK	1@1	25.87	21.87	0.1538
78	30	20	636000	3540	DFT-s-OFDM PI/2 BPSK	1@49	25.8	21.8	0.1514
78	30	20	636000	3540	DFT-s-OFDM QPSK	25@12	25.98	21.98	0.1578
78	30	20	636000	3540	DFT-s-OFDM QPSK	1@1	25.83	21.83	0.1524
78	30	20	636000	3540	DFT-s-OFDM QPSK	1@49	25.76	21.76	0.1500
78	30	20	636000	3540	DFT-s-OFDM 16 QAM	25@12	25.03	21.03	0.1268
78	30	20	636000	3540	DFT-s-OFDM 16 QAM	1@1	24.98	20.98	0.1253
78	30	20	636000	3540	DFT-s-OFDM 16 QAM	1@49	24.82	20.82	0.1208
78	30	20	636000	3540	DFT-s-OFDM 64 QAM	25@12	23.45	19.45	0.0881
78	30	20	636000	3540	DFT-s-OFDM 64 QAM	1@1	23.46	19.46	0.0883
78	30	20	636000	3540	DFT-s-OFDM 64 QAM	1@49	23.22	19.22	0.0836
78	30	20	636000	3540	DFT-s-OFDM 256 QAM	25@12	21.37	17.37	0.0546
78	30	20	636000	3540	DFT-s-OFDM 256 QAM	1@1	21.39	17.39	0.0548
78	30	20	636000	3540	DFT-s-OFDM 256 QAM	1@49	21.16	17.16	0.0520
78	30	20	636000	3540	CP-OFDM QPSK	25@12	24.44	20.44	0.1107
78	30	20	636000	3540	CP-OFDM QPSK	1@1	24.45	20.45	0.1109
78	30	20	636000	3540	CP-OFDM QPSK	1@49	24.32	20.32	0.1076
78	30	30	631000	3465	DFT-s-OFDM PI/2 BPSK	36@18	26.01	22.01	0.1589

78	30	30	631000	3465	DFT-s-OFDM PI/2 BPSK	1@1	25.81	21.81	0.1517
78	30	30	631000	3465	DFT-s-OFDM PI/2 BPSK	1@76	25.65	21.65	0.1462
78	30	30	631000	3465	DFT-s-OFDM QPSK	36@18	26.09	22.09	0.1618
78	30	30	631000	3465	DFT-s-OFDM QPSK	1@1	25.76	21.76	0.1500
78	30	30	631000	3465	DFT-s-OFDM QPSK	1@76	25.6	21.6	0.1445
78	30	30	631000	3465	DFT-s-OFDM 16 QAM	36@18	25.14	21.14	0.1300
78	30	30	631000	3465	DFT-s-OFDM 16 QAM	1@1	24.84	20.84	0.1213
78	30	30	631000	3465	DFT-s-OFDM 16 QAM	1@76	24.65	20.65	0.1161
78	30	30	631000	3465	DFT-s-OFDM 64 QAM	36@18	23.53	19.53	0.0897
78	30	30	631000	3465	DFT-s-OFDM 64 QAM	1@1	23.18	19.18	0.0828
78	30	30	631000	3465	DFT-s-OFDM 64 QAM	1@76	22.79	18.79	0.0757
78	30	30	631000	3465	DFT-s-OFDM 256 QAM	36@18	21.53	17.53	0.0566
78	30	30	631000	3465	DFT-s-OFDM 256 QAM	1@1	21.23	17.23	0.0528
78	30	30	631000	3465	DFT-s-OFDM 256 QAM	1@76	20.83	16.83	0.0482
78	30	30	631000	3465	CP-OFDM QPSK	39@19	24.56	20.56	0.1138
78	30	30	631000	3465	CP-OFDM QPSK	1@1	24.42	20.42	0.1102
78	30	30	631000	3465	CP-OFDM QPSK	1@76	24.09	20.09	0.1021
78	30	30	633334	3500.01	DFT-s-OFDM PI/2 BPSK	36@18	25.83	21.83	0.1524
78	30	30	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	25.65	21.65	0.1462
78	30	30	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@76	25.53	21.53	0.1422
78	30	30	633334	3500.01	DFT-s-OFDM QPSK	36@18	25.88	21.88	0.1542
78	30	30	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.65	21.65	0.1462
78	30	30	633334	3500.01	DFT-s-OFDM QPSK	1@76	25.52	21.52	0.1419
78	30	30	633334	3500.01	DFT-s-OFDM 16 QAM	36@18	24.91	20.91	0.1233
78	30	30	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.7	20.7	0.1175
78	30	30	633334	3500.01	DFT-s-OFDM 16 QAM	1@76	24.61	20.61	0.1151
78	30	30	633334	3500.01	DFT-s-OFDM 64 QAM	36@18	23.47	19.47	0.0885
78	30	30	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	23.22	19.22	0.0836
78	30	30	633334	3500.01	DFT-s-OFDM 64 QAM	1@76	23.07	19.07	0.0807
78	30	30	633334	3500.01	DFT-s-OFDM 256 QAM	36@18	21.33	17.33	0.0541
78	30	30	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	20.83	16.83	0.0482
78	30	30	633334	3500.01	DFT-s-OFDM 256 QAM	1@76	20.76	16.76	0.0474
78	30	30	633334	3500.01	CP-OFDM QPSK	39@19	24.39	20.39	0.1094
78	30	30	633334	3500.01	CP-OFDM QPSK	1@1	24.21	20.21	0.1050

78	30	30	633334	3500.01	CP-OFDM QPSK	1@76	24.1	20.1	0.1023
78	30	30	635666	3534.99	DFT-s-OFDM PI/2 BPSK	36@18	25.92	21.92	0.1556
78	30	30	635666	3534.99	DFT-s-OFDM PI/2 BPSK	1@1	25.68	21.68	0.1472
78	30	30	635666	3534.99	DFT-s-OFDM PI/2 BPSK	1@76	25.58	21.58	0.1439
78	30	30	635666	3534.99	DFT-s-OFDM QPSK	36@18	26.01	22.01	0.1589
78	30	30	635666	3534.99	DFT-s-OFDM QPSK	1@1	25.73	21.73	0.1489
78	30	30	635666	3534.99	DFT-s-OFDM QPSK	1@76	25.55	21.55	0.1429
78	30	30	635666	3534.99	DFT-s-OFDM 16 QAM	36@18	25.01	21.01	0.1262
78	30	30	635666	3534.99	DFT-s-OFDM 16 QAM	1@1	24.76	20.76	0.1191
78	30	30	635666	3534.99	DFT-s-OFDM 16 QAM	1@76	24.68	20.68	0.1169
78	30	30	635666	3534.99	DFT-s-OFDM 64 QAM	36@18	23.48	19.48	0.0887
78	30	30	635666	3534.99	DFT-s-OFDM 64 QAM	1@1	22.99	18.99	0.0793
78	30	30	635666	3534.99	DFT-s-OFDM 64 QAM	1@76	23.05	19.05	0.0804
78	30	30	635666	3534.99	DFT-s-OFDM 256 QAM	36@18	21.46	17.46	0.0557
78	30	30	635666	3534.99	DFT-s-OFDM 256 QAM	1@1	21.21	17.21	0.0526
78	30	30	635666	3534.99	DFT-s-OFDM 256 QAM	1@76	21.04	17.04	0.0506
78	30	30	635666	3534.99	CP-OFDM QPSK	39@19	24.43	20.43	0.1104
78	30	30	635666	3534.99	CP-OFDM QPSK	1@1	24.24	20.24	0.1057
78	30	30	635666	3534.99	CP-OFDM QPSK	1@76	24.08	20.08	0.1019
78	30	40	631334	3470.01	DFT-s-OFDM PI/2 BPSK	50@25	26.01	22.01	0.1589
78	30	40	631334	3470.01	DFT-s-OFDM PI/2 BPSK	1@1	25.64	21.64	0.1459
78	30	40	631334	3470.01	DFT-s-OFDM PI/2 BPSK	1@104	25.33	21.33	0.1358
78	30	40	631334	3470.01	DFT-s-OFDM QPSK	50@25	26.04	22.04	0.1600
78	30	40	631334	3470.01	DFT-s-OFDM QPSK	1@1	25.6	21.6	0.1445
78	30	40	631334	3470.01	DFT-s-OFDM QPSK	1@104	25.25	21.25	0.1334
78	30	40	631334	3470.01	DFT-s-OFDM 16 QAM	50@25	25	21	0.1259
78	30	40	631334	3470.01	DFT-s-OFDM 16 QAM	1@1	24.63	20.63	0.1156
78	30	40	631334	3470.01	DFT-s-OFDM 16 QAM	1@104	24.51	20.51	0.1125
78	30	40	631334	3470.01	DFT-s-OFDM 64 QAM	50@25	23.58	19.58	0.0908
78	30	40	631334	3470.01	DFT-s-OFDM 64 QAM	1@1	23	19	0.0794
78	30	40	631334	3470.01	DFT-s-OFDM 64 QAM	1@104	22.72	18.72	0.0745
78	30	40	631334	3470.01	DFT-s-OFDM 256 QAM	50@25	21.54	17.54	0.0568
78	30	40	631334	3470.01	DFT-s-OFDM 256 QAM	1@1	20.95	16.95	0.0495
78	30	40	631334	3470.01	DFT-s-OFDM 256 QAM	1@104	20.58	16.58	0.0455



78	30	40	631334	3470.01	CP-OFDM QPSK	53@26	24.53	20.53	0.1130
78	30	40	631334	3470.01	CP-OFDM QPSK	1@1	24.24	20.24	0.1057
78	30	40	631334	3470.01	CP-OFDM QPSK	1@104	23.87	19.87	0.0971
78	30	40	633334	3500.01	DFT-s-OFDM PI/2 BPSK	50@25	25.81	21.81	0.1517
78	30	40	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	25.6	21.6	0.1445
78	30	40	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@104	25.5	21.5	0.1413
78	30	40	633334	3500.01	DFT-s-OFDM QPSK	50@25	25.88	21.88	0.1542
78	30	40	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.53	21.53	0.1422
78	30	40	633334	3500.01	DFT-s-OFDM QPSK	1@104	25.34	21.34	0.1361
78	30	40	633334	3500.01	DFT-s-OFDM 16 QAM	50@25	24.84	20.84	0.1213
78	30	40	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.74	20.74	0.1186
78	30	40	633334	3500.01	DFT-s-OFDM 16 QAM	1@104	24.41	20.41	0.1099
78	30	40	633334	3500.01	DFT-s-OFDM 64 QAM	50@25	23.42	19.42	0.0875
78	30	40	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	23.14	19.14	0.0820
78	30	40	633334	3500.01	DFT-s-OFDM 64 QAM	1@104	23.1	19.1	0.0813
78	30	40	633334	3500.01	DFT-s-OFDM 256 QAM	50@25	21.32	17.32	0.0540
78	30	40	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	20.95	16.95	0.0495
78	30	40	633334	3500.01	DFT-s-OFDM 256 QAM	1@104	20.71	16.71	0.0469
78	30	40	633334	3500.01	CP-OFDM QPSK	53@26	24.41	20.41	0.1099
78	30	40	633334	3500.01	CP-OFDM QPSK	1@1	24.14	20.14	0.1033
78	30	40	633334	3500.01	CP-OFDM QPSK	1@104	23.93	19.93	0.0984
78	30	40	635332	3529.98	DFT-s-OFDM PI/2 BPSK	50@25	25.9	21.9	0.1549
78	30	40	635332	3529.98	DFT-s-OFDM PI/2 BPSK	1@1	25.54	21.54	0.1426
78	30	40	635332	3529.98	DFT-s-OFDM PI/2 BPSK	1@104	25.44	21.44	0.1393
78	30	40	635332	3529.98	DFT-s-OFDM QPSK	50@25	25.93	21.93	0.1560
78	30	40	635332	3529.98	DFT-s-OFDM QPSK	1@1	25.5	21.5	0.1413
78	30	40	635332	3529.98	DFT-s-OFDM QPSK	1@104	25.36	21.36	0.1368
78	30	40	635332	3529.98	DFT-s-OFDM 16 QAM	50@25	24.97	20.97	0.1250
78	30	40	635332	3529.98	DFT-s-OFDM 16 QAM	1@1	24.69	20.69	0.1172
78	30	40	635332	3529.98	DFT-s-OFDM 16 QAM	1@104	24.59	20.59	0.1146
78	30	40	635332	3529.98	DFT-s-OFDM 64 QAM	50@25	23.5	19.5	0.0891
78	30	40	635332	3529.98	DFT-s-OFDM 64 QAM	1@1	23.28	19.28	0.0847
78	30	40	635332	3529.98	DFT-s-OFDM 64 QAM	1@104	23.04	19.04	0.0802
78	30	40	635332	3529.98	DFT-s-OFDM 256 QAM	50@25	21.41	17.41	0.0551

78	30	40	635332	3529.98	DFT-s-OFDM 256 QAM	1@1	21	17	0.0501
78	30	40	635332	3529.98	DFT-s-OFDM 256 QAM	1@104	20.92	16.92	0.0492
78	30	40	635332	3529.98	CP-OFDM QPSK	53@26	24.47	20.47	0.1114
78	30	40	635332	3529.98	CP-OFDM QPSK	1@1	24.06	20.06	0.1014
78	30	40	635332	3529.98	CP-OFDM QPSK	1@104	24	20	0.1000
78	30	50	631668	3475.02	DFT-s-OFDM PI/2 BPSK	64@32	25.98	21.98	0.1578
78	30	50	631668	3475.02	DFT-s-OFDM PI/2 BPSK	1@1	25.79	21.79	0.1510
78	30	50	631668	3475.02	DFT-s-OFDM PI/2 BPSK	1@131	25.55	21.55	0.1429
78	30	50	631668	3475.02	DFT-s-OFDM QPSK	64@32	25.99	21.99	0.1581
78	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@1	25.91	21.91	0.1552
78	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@131	25.49	21.49	0.1409
78	30	50	631668	3475.02	DFT-s-OFDM 16 QAM	64@32	25.03	21.03	0.1268
78	30	50	631668	3475.02	DFT-s-OFDM 16 QAM	1@1	24.86	20.86	0.1219
78	30	50	631668	3475.02	DFT-s-OFDM 16 QAM	1@131	24.54	20.54	0.1132
78	30	50	631668	3475.02	DFT-s-OFDM 64 QAM	64@32	23.49	19.49	0.0889
78	30	50	631668	3475.02	DFT-s-OFDM 64 QAM	1@1	23.21	19.21	0.0834
78	30	50	631668	3475.02	DFT-s-OFDM 64 QAM	1@131	22.9	18.9	0.0776
78	30	50	631668	3475.02	DFT-s-OFDM 256 QAM	64@32	21.52	17.52	0.0565
78	30	50	631668	3475.02	DFT-s-OFDM 256 QAM	1@1	21.05	17.05	0.0507
78	30	50	631668	3475.02	DFT-s-OFDM 256 QAM	1@131	20.74	16.74	0.0472
78	30	50	631668	3475.02	CP-OFDM QPSK	67@33	24.47	20.47	0.1114
78	30	50	631668	3475.02	CP-OFDM QPSK	1@1	24.4	20.4	0.1096
78	30	50	631668	3475.02	CP-OFDM QPSK	1@131	24.1	20.1	0.1023
78	30	50	633334	3500.01	DFT-s-OFDM PI/2 BPSK	64@32	25.81	21.81	0.1517
78	30	50	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	25.72	21.72	0.1486
78	30	50	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@131	25.51	21.51	0.1416
78	30	50	633334	3500.01	DFT-s-OFDM QPSK	64@32	25.88	21.88	0.1542
78	30	50	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.66	21.66	0.1466
78	30	50	633334	3500.01	DFT-s-OFDM QPSK	1@131	25.47	21.47	0.1403
78	30	50	633334	3500.01	DFT-s-OFDM 16 QAM	64@32	24.85	20.85	0.1216
78	30	50	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.88	20.88	0.1225
78	30	50	633334	3500.01	DFT-s-OFDM 16 QAM	1@131	24.52	20.52	0.1127
78	30	50	633334	3500.01	DFT-s-OFDM 64 QAM	64@32	23.34	19.34	0.0859
78	30	50	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	23.08	19.08	0.0809

78	30	50	633334	3500.01	DFT-s-OFDM 64 QAM	1@131	23.02	19.02	0.0798
78	30	50	633334	3500.01	DFT-s-OFDM 256 QAM	64@32	21.38	17.38	0.0547
78	30	50	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	20.93	16.93	0.0493
78	30	50	633334	3500.01	DFT-s-OFDM 256 QAM	1@131	20.66	16.66	0.0463
78	30	50	633334	3500.01	CP-OFDM QPSK	67@33	24.39	20.39	0.1094
78	30	50	633334	3500.01	CP-OFDM QPSK	1@1	24.31	20.31	0.1074
78	30	50	633334	3500.01	CP-OFDM QPSK	1@131	24.01	20.01	0.1002
78	30	50	635000	3525	DFT-s-OFDM PI/2 BPSK	64@32	25.9	21.9	0.1549
78	30	50	635000	3525	DFT-s-OFDM PI/2 BPSK	1@1	25.73	21.73	0.1489
78	30	50	635000	3525	DFT-s-OFDM PI/2 BPSK	1@131	25.65	21.65	0.1462
78	30	50	635000	3525	DFT-s-OFDM QPSK	64@32	26.01	22.01	0.1589
78	30	50	635000	3525	DFT-s-OFDM QPSK	1@1	25.71	21.71	0.1483
78	30	50	635000	3525	DFT-s-OFDM QPSK	1@131	25.53	21.53	0.1422
78	30	50	635000	3525	DFT-s-OFDM 16 QAM	64@32	24.98	20.98	0.1253
78	30	50	635000	3525	DFT-s-OFDM 16 QAM	1@1	24.78	20.78	0.1197
78	30	50	635000	3525	DFT-s-OFDM 16 QAM	1@131	24.66	20.66	0.1164
78	30	50	635000	3525	DFT-s-OFDM 64 QAM	64@32	23.42	19.42	0.0875
78	30	50	635000	3525	DFT-s-OFDM 64 QAM	1@1	23.03	19.03	0.0800
78	30	50	635000	3525	DFT-s-OFDM 64 QAM	1@131	23.01	19.01	0.0796
78	30	50	635000	3525	DFT-s-OFDM 256 QAM	64@32	20.81	16.81	0.0480
78	30	50	635000	3525	DFT-s-OFDM 256 QAM	1@1	20.85	16.85	0.0484
78	30	50	635000	3525	DFT-s-OFDM 256 QAM	1@131	20.85	16.85	0.0484
78	30	50	635000	3525	CP-OFDM QPSK	67@33	24.47	20.47	0.1114
78	30	50	635000	3525	CP-OFDM QPSK	1@1	24.29	20.29	0.1069
78	30	50	635000	3525	CP-OFDM QPSK	1@131	24.2	20.2	0.1047
78	30	60	632000	3480	DFT-s-OFDM PI/2 BPSK	81@40	25.96	21.96	0.1570
78	30	60	632000	3480	DFT-s-OFDM PI/2 BPSK	1@1	25.88	21.88	0.1542
78	30	60	632000	3480	DFT-s-OFDM PI/2 BPSK	1@160	25.48	21.48	0.1406
78	30	60	632000	3480	DFT-s-OFDM QPSK	81@40	25.95	21.95	0.1567
78	30	60	632000	3480	DFT-s-OFDM QPSK	1@1	25.77	21.77	0.1503
78	30	60	632000	3480	DFT-s-OFDM QPSK	1@160	25.46	21.46	0.1400
78	30	60	632000	3480	DFT-s-OFDM 16 QAM	81@40	24.98	20.98	0.1253
78	30	60	632000	3480	DFT-s-OFDM 16 QAM	1@1	24.85	20.85	0.1216
78	30	60	632000	3480	DFT-s-OFDM 16 QAM	1@160	24.46	20.46	0.1112

78	30	60	632000	3480	DFT-s-OFDM 64 QAM	81@40	23.46	19.46	0.0883
78	30	60	632000	3480	DFT-s-OFDM 64 QAM	1@1	23.35	19.35	0.0861
78	30	60	632000	3480	DFT-s-OFDM 64 QAM	1@160	22.96	18.96	0.0787
78	30	60	632000	3480	DFT-s-OFDM 256 QAM	81@40	21.44	17.44	0.0555
78	30	60	632000	3480	DFT-s-OFDM 256 QAM	1@1	21.15	17.15	0.0519
78	30	60	632000	3480	DFT-s-OFDM 256 QAM	1@160	20.9	16.9	0.0490
78	30	60	632000	3480	CP-OFDM QPSK	81@40	24.5	20.5	0.1122
78	30	60	632000	3480	CP-OFDM QPSK	1@1	24.53	20.53	0.1130
78	30	60	632000	3480	CP-OFDM QPSK	1@160	24.04	20.04	0.1009
78	30	60	633334	3500.01	DFT-s-OFDM PI/2 BPSK	81@40	25.83	21.83	0.1524
78	30	60	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	25.69	21.69	0.1476
78	30	60	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@160	25.46	21.46	0.1400
78	30	60	633334	3500.01	DFT-s-OFDM QPSK	81@40	25.84	21.84	0.1528
78	30	60	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.7	21.7	0.1479
78	30	60	633334	3500.01	DFT-s-OFDM QPSK	1@160	25.46	21.46	0.1400
78	30	60	633334	3500.01	DFT-s-OFDM 16 QAM	81@40	24.84	20.84	0.1213
78	30	60	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.71	20.71	0.1178
78	30	60	633334	3500.01	DFT-s-OFDM 16 QAM	1@160	24.4	20.4	0.1096
78	30	60	633334	3500.01	DFT-s-OFDM 64 QAM	81@40	23.34	19.34	0.0859
78	30	60	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	23.26	19.26	0.0843
78	30	60	633334	3500.01	DFT-s-OFDM 64 QAM	1@160	22.96	18.96	0.0787
78	30	60	633334	3500.01	DFT-s-OFDM 256 QAM	81@40	21.32	17.32	0.0540
78	30	60	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	21.17	17.17	0.0521
78	30	60	633334	3500.01	DFT-s-OFDM 256 QAM	1@160	20.79	16.79	0.0478
78	30	60	633334	3500.01	CP-OFDM QPSK	81@40	24.33	20.33	0.1079
78	30	60	633334	3500.01	CP-OFDM QPSK	1@1	24.25	20.25	0.1059
78	30	60	633334	3500.01	CP-OFDM QPSK	1@160	24.04	20.04	0.1009
78	30	60	634666	3519.99	DFT-s-OFDM PI/2 BPSK	81@40	25.99	21.99	0.1581
78	30	60	634666	3519.99	DFT-s-OFDM PI/2 BPSK	1@1	25.76	21.76	0.1500
78	30	60	634666	3519.99	DFT-s-OFDM PI/2 BPSK	1@160	25.57	21.57	0.1435
78	30	60	634666	3519.99	DFT-s-OFDM QPSK	81@40	26	22	0.1585
78	30	60	634666	3519.99	DFT-s-OFDM QPSK	1@1	25.67	21.67	0.1469
78	30	60	634666	3519.99	DFT-s-OFDM QPSK	1@160	25.57	21.57	0.1435
78	30	60	634666	3519.99	DFT-s-OFDM 16 QAM	81@40	24.99	20.99	0.1256

78	30	60	634666	3519.99	DFT-s-OFDM 16 QAM	1@1	24.69	20.69	0.1172
78	30	60	634666	3519.99	DFT-s-OFDM 16 QAM	1@160	24.37	20.37	0.1089
78	30	60	634666	3519.99	DFT-s-OFDM 64 QAM	81@40	23.43	19.43	0.0877
78	30	60	634666	3519.99	DFT-s-OFDM 64 QAM	1@1	23.33	19.33	0.0857
78	30	60	634666	3519.99	DFT-s-OFDM 64 QAM	1@160	23.05	19.05	0.0804
78	30	60	634666	3519.99	DFT-s-OFDM 256 QAM	81@40	21.44	17.44	0.0555
78	30	60	634666	3519.99	DFT-s-OFDM 256 QAM	1@1	20.93	16.93	0.0493
78	30	60	634666	3519.99	DFT-s-OFDM 256 QAM	1@160	20.98	16.98	0.0499
78	30	60	634666	3519.99	CP-OFDM QPSK	81@40	24.44	20.44	0.1107
78	30	60	634666	3519.99	CP-OFDM QPSK	1@1	24.25	20.25	0.1059
78	30	60	634666	3519.99	CP-OFDM QPSK	1@160	24.16	20.16	0.1038
78	30	70	632334	3485.01	DFT-s-OFDM PI/2 BPSK	90@45	25.97	21.97	0.1574
78	30	70	632334	3485.01	DFT-s-OFDM PI/2 BPSK	1@1	25.75	21.75	0.1496
78	30	70	632334	3485.01	DFT-s-OFDM PI/2 BPSK	1@187	25.43	21.43	0.1390
78	30	70	632334	3485.01	DFT-s-OFDM QPSK	90@45	26.09	22.09	0.1618
78	30	70	632334	3485.01	DFT-s-OFDM QPSK	1@1	25.73	21.73	0.1489
78	30	70	632334	3485.01	DFT-s-OFDM QPSK	1@187	25.38	21.38	0.1374
78	30	70	632334	3485.01	DFT-s-OFDM 16 QAM	90@45	25.09	21.09	0.1285
78	30	70	632334	3485.01	DFT-s-OFDM 16 QAM	1@1	24.73	20.73	0.1183
78	30	70	632334	3485.01	DFT-s-OFDM 16 QAM	1@187	24.54	20.54	0.1132
78	30	70	632334	3485.01	DFT-s-OFDM 64 QAM	90@45	23.52	19.52	0.0895
78	30	70	632334	3485.01	DFT-s-OFDM 64 QAM	1@1	23.26	19.26	0.0843
78	30	70	632334	3485.01	DFT-s-OFDM 64 QAM	1@187	22.82	18.82	0.0762
78	30	70	632334	3485.01	DFT-s-OFDM 256 QAM	90@45	21.43	17.43	0.0553
78	30	70	632334	3485.01	DFT-s-OFDM 256 QAM	1@1	20.97	16.97	0.0498
78	30	70	632334	3485.01	DFT-s-OFDM 256 QAM	1@187	20.83	16.83	0.0482
78	30	70	632334	3485.01	CP-OFDM QPSK	95@47	24.5	20.5	0.1122
78	30	70	632334	3485.01	CP-OFDM QPSK	1@1	24.36	20.36	0.1086
78	30	70	632334	3485.01	CP-OFDM QPSK	1@187	24.01	20.01	0.1002
78	30	70	633334	3500.01	DFT-s-OFDM PI/2 BPSK	90@45	25.9	21.9	0.1549
78	30	70	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	25.75	21.75	0.1496
78	30	70	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@187	25.44	21.44	0.1393
78	30	70	633334	3500.01	DFT-s-OFDM QPSK	90@45	25.93	21.93	0.1560
78	30	70	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.76	21.76	0.1500

78	30	70	633334	3500.01	DFT-s-OFDM QPSK	1@187	25.38	21.38	0.1374
78	30	70	633334	3500.01	DFT-s-OFDM 16 QAM	90@45	24.92	20.92	0.1236
78	30	70	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.88	20.88	0.1225
78	30	70	633334	3500.01	DFT-s-OFDM 16 QAM	1@187	24.49	20.49	0.1119
78	30	70	633334	3500.01	DFT-s-OFDM 64 QAM	90@45	23.4	19.4	0.0871
78	30	70	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	23.15	19.15	0.0822
78	30	70	633334	3500.01	DFT-s-OFDM 64 QAM	1@187	22.77	18.77	0.0753
78	30	70	633334	3500.01	DFT-s-OFDM 256 QAM	90@45	21.3	17.3	0.0537
78	30	70	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	21.05	17.05	0.0507
78	30	70	633334	3500.01	DFT-s-OFDM 256 QAM	1@187	20.67	16.67	0.0465
78	30	70	633334	3500.01	CP-OFDM QPSK	95@47	24.37	20.37	0.1089
78	30	70	633334	3500.01	CP-OFDM QPSK	1@1	24.23	20.23	0.1054
78	30	70	633334	3500.01	CP-OFDM QPSK	1@187	24.06	20.06	0.1014
78	30	70	634332	3514.98	DFT-s-OFDM PI/2 BPSK	90@45	25.99	21.99	0.1581
78	30	70	634332	3514.98	DFT-s-OFDM PI/2 BPSK	1@1	25.71	21.71	0.1483
78	30	70	634332	3514.98	DFT-s-OFDM PI/2 BPSK	1@187	25.44	21.44	0.1393
78	30	70	634332	3514.98	DFT-s-OFDM QPSK	90@45	26.02	22.02	0.1592
78	30	70	634332	3514.98	DFT-s-OFDM QPSK	1@1	25.71	21.71	0.1483
78	30	70	634332	3514.98	DFT-s-OFDM QPSK	1@187	25.41	21.41	0.1384
78	30	70	634332	3514.98	DFT-s-OFDM 16 QAM	90@45	24.97	20.97	0.1250
78	30	70	634332	3514.98	DFT-s-OFDM 16 QAM	1@1	24.7	20.7	0.1175
78	30	70	634332	3514.98	DFT-s-OFDM 16 QAM	1@187	24.46	20.46	0.1112
78	30	70	634332	3514.98	DFT-s-OFDM 64 QAM	90@45	23.44	19.44	0.0879
78	30	70	634332	3514.98	DFT-s-OFDM 64 QAM	1@1	23.21	19.21	0.0834
78	30	70	634332	3514.98	DFT-s-OFDM 64 QAM	1@187	22.98	18.98	0.0791
78	30	70	634332	3514.98	DFT-s-OFDM 256 QAM	90@45	21.4	17.4	0.0550
78	30	70	634332	3514.98	DFT-s-OFDM 256 QAM	1@1	21.09	17.09	0.0512
78	30	70	634332	3514.98	DFT-s-OFDM 256 QAM	1@187	21.01	17.01	0.0502
78	30	70	634332	3514.98	CP-OFDM QPSK	95@47	24.55	20.55	0.1135
78	30	70	634332	3514.98	CP-OFDM QPSK	1@1	24.28	20.28	0.1067
78	30	70	634332	3514.98	CP-OFDM QPSK	1@187	24.06	20.06	0.1014
78	30	80	632668	3490.02	DFT-s-OFDM PI/2 BPSK	108@54	26.04	22.04	0.1600
78	30	80	632668	3490.02	DFT-s-OFDM PI/2 BPSK	1@1	25.77	21.77	0.1503
78	30	80	632668	3490.02	DFT-s-OFDM PI/2 BPSK	1@215	25.4	21.4	0.1380

78	30	80	632668	3490.02	DFT-s-OFDM QPSK	108@54	26.06	22.06	0.1607
78	30	80	632668	3490.02	DFT-s-OFDM QPSK	1@1	25.77	21.77	0.1503
78	30	80	632668	3490.02	DFT-s-OFDM QPSK	1@215	25.48	21.48	0.1406
78	30	80	632668	3490.02	DFT-s-OFDM 16 QAM	108@54	25.07	21.07	0.1279
78	30	80	632668	3490.02	DFT-s-OFDM 16 QAM	1@1	24.88	20.88	0.1225
78	30	80	632668	3490.02	DFT-s-OFDM 16 QAM	1@215	24.49	20.49	0.1119
78	30	80	632668	3490.02	DFT-s-OFDM 64 QAM	108@54	23.56	19.56	0.0904
78	30	80	632668	3490.02	DFT-s-OFDM 64 QAM	1@1	23.25	19.25	0.0841
78	30	80	632668	3490.02	DFT-s-OFDM 64 QAM	1@215	22.8	18.8	0.0759
78	30	80	632668	3490.02	DFT-s-OFDM 256 QAM	108@54	21.4	17.4	0.0550
78	30	80	632668	3490.02	DFT-s-OFDM 256 QAM	1@1	21.16	17.16	0.0520
78	30	80	632668	3490.02	DFT-s-OFDM 256 QAM	1@215	20.85	16.85	0.0484
78	30	80	632668	3490.02	CP-OFDM QPSK	109@54	24.59	20.59	0.1146
78	30	80	632668	3490.02	CP-OFDM QPSK	1@1	24.26	20.26	0.1062
78	30	80	632668	3490.02	CP-OFDM QPSK	1@215	23.9	19.9	0.0977
78	30	80	633334	3500.01	DFT-s-OFDM PI/2 BPSK	108@54	25.9	21.9	0.1549
78	30	80	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	25.61	21.61	0.1449
78	30	80	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@215	25.36	21.36	0.1368
78	30	80	633334	3500.01	DFT-s-OFDM QPSK	108@54	25.98	21.98	0.1578
78	30	80	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.61	21.61	0.1449
78	30	80	633334	3500.01	DFT-s-OFDM QPSK	1@215	25.32	21.32	0.1355
78	30	80	633334	3500.01	DFT-s-OFDM 16 QAM	108@54	24.94	20.94	0.1242
78	30	80	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.61	20.61	0.1151
78	30	80	633334	3500.01	DFT-s-OFDM 16 QAM	1@215	24.54	20.54	0.1132
78	30	80	633334	3500.01	DFT-s-OFDM 64 QAM	108@54	23.44	19.44	0.0879
78	30	80	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	23.18	19.18	0.0828
78	30	80	633334	3500.01	DFT-s-OFDM 64 QAM	1@215	22.99	18.99	0.0793
78	30	80	633334	3500.01	DFT-s-OFDM 256 QAM	108@54	21.36	17.36	0.0545
78	30	80	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	20.8	16.8	0.0479
78	30	80	633334	3500.01	DFT-s-OFDM 256 QAM	1@215	20.52	16.52	0.0449
78	30	80	633334	3500.01	CP-OFDM QPSK	109@54	24.43	20.43	0.1104
78	30	80	633334	3500.01	CP-OFDM QPSK	1@1	24.18	20.18	0.1042
78	30	80	633334	3500.01	CP-OFDM QPSK	1@215	23.88	19.88	0.0973
78	30	80	634000	3510	DFT-s-OFDM PI/2 BPSK	108@54	25.96	21.96	0.1570

78	30	80	634000	3510	DFT-s-OFDM PI/2 BPSK	1@1	25.65	21.65	0.1462
78	30	80	634000	3510	DFT-s-OFDM PI/2 BPSK	1@215	25.93	21.93	0.1560
78	30	80	634000	3510	DFT-s-OFDM QPSK	108@54	25.92	21.92	0.1556
78	30	80	634000	3510	DFT-s-OFDM QPSK	1@1	25.57	21.57	0.1435
78	30	80	634000	3510	DFT-s-OFDM QPSK	1@215	25.33	21.33	0.1358
78	30	80	634000	3510	DFT-s-OFDM 16 QAM	108@54	24.91	20.91	0.1233
78	30	80	634000	3510	DFT-s-OFDM 16 QAM	1@1	24.75	20.75	0.1189
78	30	80	634000	3510	DFT-s-OFDM 16 QAM	1@215	24.37	20.37	0.1089
78	30	80	634000	3510	DFT-s-OFDM 64 QAM	108@54	23.4	19.4	0.0871
78	30	80	634000	3510	DFT-s-OFDM 64 QAM	1@1	22.92	18.92	0.0780
78	30	80	634000	3510	DFT-s-OFDM 64 QAM	1@215	22.62	18.62	0.0728
78	30	80	634000	3510	DFT-s-OFDM 256 QAM	108@54	21.32	17.32	0.0540
78	30	80	634000	3510	DFT-s-OFDM 256 QAM	1@1	20.73	16.73	0.0471
78	30	80	634000	3510	DFT-s-OFDM 256 QAM	1@215	20.65	16.65	0.0462
78	30	80	634000	3510	CP-OFDM QPSK	109@54	24.43	20.43	0.1104
78	30	80	634000	3510	CP-OFDM QPSK	1@1	24.13	20.13	0.1030
78	30	80	634000	3510	CP-OFDM QPSK	1@215	23.88	19.88	0.0973
78	30	90	633000	3495	DFT-s-OFDM PI/2 BPSK	120@60	25.95	21.95	0.1567
78	30	90	633000	3495	DFT-s-OFDM PI/2 BPSK	1@1	25.61	21.61	0.1449
78	30	90	633000	3495	DFT-s-OFDM PI/2 BPSK	1@243	25.25	21.25	0.1334
78	30	90	633000	3495	DFT-s-OFDM QPSK	120@60	25.99	21.99	0.1581
78	30	90	633000	3495	DFT-s-OFDM QPSK	1@1	25.66	21.66	0.1466
78	30	90	633000	3495	DFT-s-OFDM QPSK	1@243	25.26	21.26	0.1337
78	30	90	633000	3495	DFT-s-OFDM 16 QAM	120@60	24.95	20.95	0.1245
78	30	90	633000	3495	DFT-s-OFDM 16 QAM	1@1	24.56	20.56	0.1138
78	30	90	633000	3495	DFT-s-OFDM 16 QAM	1@243	24.17	20.17	0.1040
78	30	90	633000	3495	DFT-s-OFDM 64 QAM	120@60	23.4	19.4	0.0871
78	30	90	633000	3495	DFT-s-OFDM 64 QAM	1@1	23.16	19.16	0.0824
78	30	90	633000	3495	DFT-s-OFDM 64 QAM	1@243	22.79	18.79	0.0757
78	30	90	633000	3495	DFT-s-OFDM 256 QAM	120@60	21.36	17.36	0.0545
78	30	90	633000	3495	DFT-s-OFDM 256 QAM	1@1	20.79	16.79	0.0478
78	30	90	633000	3495	DFT-s-OFDM 256 QAM	1@243	20.43	16.43	0.0440
78	30	90	633000	3495	CP-OFDM QPSK	123@61	24.47	20.47	0.1114
78	30	90	633000	3495	CP-OFDM QPSK	1@1	24.1	20.1	0.1023



78	30	90	633000	3495	CP-OFDM QPSK	1@243	23.79	19.79	0.0953
78	30	90	633334	3500.01	DFT-s-OFDM PI/2 BPSK	120@60	25.93	21.93	0.1560
78	30	90	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	25.55	21.55	0.1429
78	30	90	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@243	25.19	21.19	0.1315
78	30	90	633334	3500.01	DFT-s-OFDM QPSK	120@60	25.93	21.93	0.1560
78	30	90	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.46	21.46	0.1400
78	30	90	633334	3500.01	DFT-s-OFDM QPSK	1@243	25.24	21.24	0.1330
78	30	90	633334	3500.01	DFT-s-OFDM 16 QAM	120@60	24.88	20.88	0.1225
78	30	90	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.56	20.56	0.1138
78	30	90	633334	3500.01	DFT-s-OFDM 16 QAM	1@243	24.21	20.21	0.1050
78	30	90	633334	3500.01	DFT-s-OFDM 64 QAM	120@60	23.36	19.36	0.0863
78	30	90	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	22.9	18.9	0.0776
78	30	90	633334	3500.01	DFT-s-OFDM 64 QAM	1@243	22.55	18.55	0.0716
78	30	90	633334	3500.01	DFT-s-OFDM 256 QAM	120@60	21.37	17.37	0.0546
78	30	90	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	20.8	16.8	0.0479
78	30	90	633334	3500.01	DFT-s-OFDM 256 QAM	1@243	20.5	16.5	0.0447
78	30	90	633334	3500.01	CP-OFDM QPSK	123@61	24.39	20.39	0.1094
78	30	90	633334	3500.01	CP-OFDM QPSK	1@1	24.08	20.08	0.1019
78	30	90	633334	3500.01	CP-OFDM QPSK	1@243	23.72	19.72	0.0938
78	30	90	633666	3504.99	DFT-s-OFDM PI/2 BPSK	120@60	25.87	21.87	0.1538
78	30	90	633666	3504.99	DFT-s-OFDM PI/2 BPSK	1@1	25.63	21.63	0.1455
78	30	90	633666	3504.99	DFT-s-OFDM PI/2 BPSK	1@243	25.24	21.24	0.1330
78	30	90	633666	3504.99	DFT-s-OFDM QPSK	120@60	25.91	21.91	0.1552
78	30	90	633666	3504.99	DFT-s-OFDM QPSK	1@1	25.51	21.51	0.1416
78	30	90	633666	3504.99	DFT-s-OFDM QPSK	1@243	25.24	21.24	0.1330
78	30	90	633666	3504.99	DFT-s-OFDM 16 QAM	120@60	24.92	20.92	0.1236
78	30	90	633666	3504.99	DFT-s-OFDM 16 QAM	1@1	24.57	20.57	0.1140
78	30	90	633666	3504.99	DFT-s-OFDM 16 QAM	1@243	24.23	20.23	0.1054
78	30	90	633666	3504.99	DFT-s-OFDM 64 QAM	120@60	23.42	19.42	0.0875
78	30	90	633666	3504.99	DFT-s-OFDM 64 QAM	1@1	22.95	18.95	0.0785
78	30	90	633666	3504.99	DFT-s-OFDM 64 QAM	1@243	22.65	18.65	0.0733
78	30	90	633666	3504.99	DFT-s-OFDM 256 QAM	120@60	21.36	17.36	0.0545
78	30	90	633666	3504.99	DFT-s-OFDM 256 QAM	1@1	20.78	16.78	0.0476
78	30	90	633666	3504.99	DFT-s-OFDM 256 QAM	1@243	20.38	16.38	0.0435

78	30	90	633666	3504.99	CP-OFDM QPSK	123@61	24.42	20.42	0.1102
78	30	90	633666	3504.99	CP-OFDM QPSK	1@1	24.08	20.08	0.1019
78	30	90	633666	3504.99	CP-OFDM QPSK	1@243	23.73	19.73	0.0940
78	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	135@67	25.89	21.89	0.1545
78	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	25.5	21.5	0.1413
78	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@271	25.04	21.04	0.1271
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	135@67	25.91	21.91	0.1552
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.45	21.45	0.1396
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@271	25.05	21.05	0.1274
78	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	135@67	24.92	20.92	0.1236
78	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.49	20.49	0.1119
78	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	1@271	24.02	20.02	0.1005
78	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	135@67	23.37	19.37	0.0865
78	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	22.84	18.84	0.0766
78	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	1@271	22.42	18.42	0.0695
78	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	135@67	21.36	17.36	0.0545
78	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	20.77	16.77	0.0475
78	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	1@271	20.33	16.33	0.0430
78	30	100	633334	3500.01	CP-OFDM QPSK	137@68	24.38	20.38	0.1091
78	30	100	633334	3500.01	CP-OFDM QPSK	1@1	23.97	19.97	0.0993
78	30	100	633334	3500.01	CP-OFDM QPSK	1@271	23.57	19.57	0.0906

## Frequency Stability

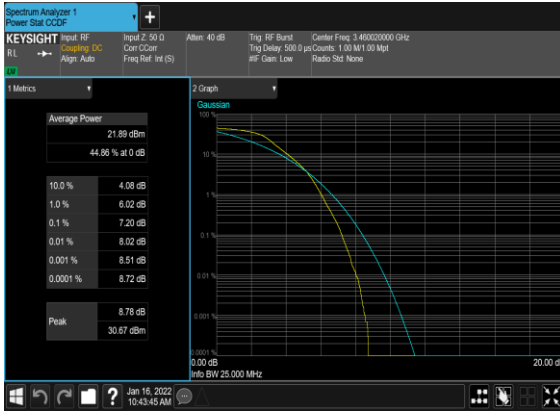
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0118	PASS	NV
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0523	PASS	LV
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0199	PASS	HV
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0194	PASS	-30°C
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0232	PASS	-20°C
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0015	PASS	-10°C
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0165	PASS	0°C
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0102	PASS	10°C
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0028	PASS	20°C
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0179	PASS	30°C
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0185	PASS	40°C
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0102	PASS	50°C

**Note:** Normal Voltage = 3.8V ; Battery End Point (BEP) =3.6V. ; Maximum Voltage =4.4V

## Peak to Average Ratio

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	7.2	13	PASS
78	30	20	630668	3460.02	DFT-s-OFDM PI/2 BPSK	1@0	7.27	13	PASS
78	30	20	630668	3460.02	DFT-s-OFDM QPSK	50@0	8.3	13	PASS
78	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@0	8.38	13	PASS
78	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	50@0	7.23	13	PASS
78	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@0	7.03	13	PASS
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	8.34	13	PASS
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@0	8.41	13	PASS
78	30	20	636000	3540.0	DFT-s-OFDM PI/2 BPSK	50@0	7.23	13	PASS
78	30	20	636000	3540.0	DFT-s-OFDM PI/2 BPSK	1@0	7.29	13	PASS
78	30	20	636000	3540.0	DFT-s-OFDM QPSK	50@0	8.48	13	PASS
78	30	20	636000	3540.0	DFT-s-OFDM QPSK	1@0	8.61	13	PASS

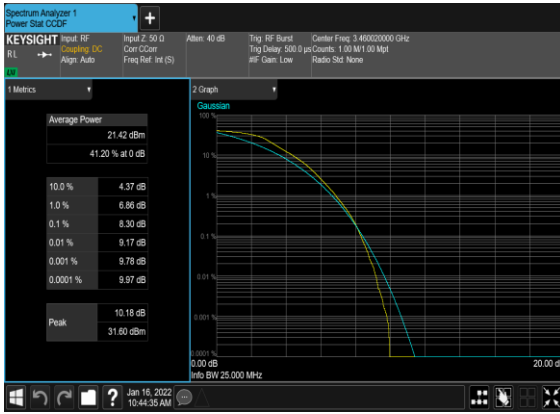
N78(20M)\_DFT-s-OFDM\_PI\_2-BPSK\_Outer\_Full\_Low\_CH



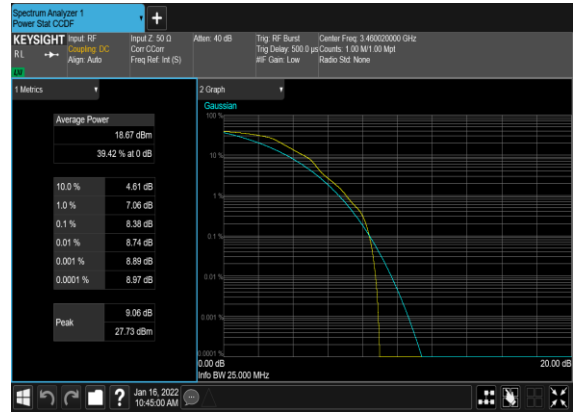
N78(20M)\_DFT-s-OFDM\_PI\_2-BPSK\_Edge\_1RB\_Left\_Low\_CH



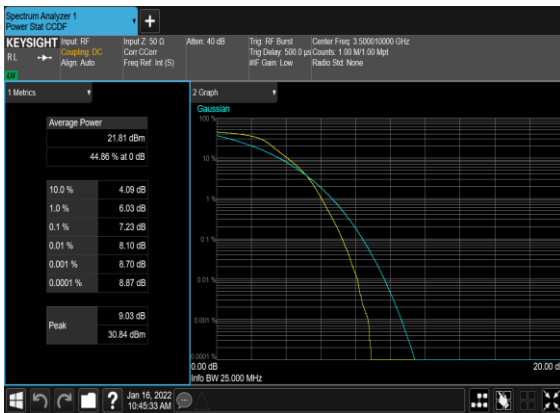
N78(20M)\_DFT-s-OFDM\_QPSK\_Outer\_Full\_Low\_CH



N78(20M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



N78(20M)\_DFT-s-OFDM\_PI\_2-BPSK\_Outer\_Full\_Mid\_CH



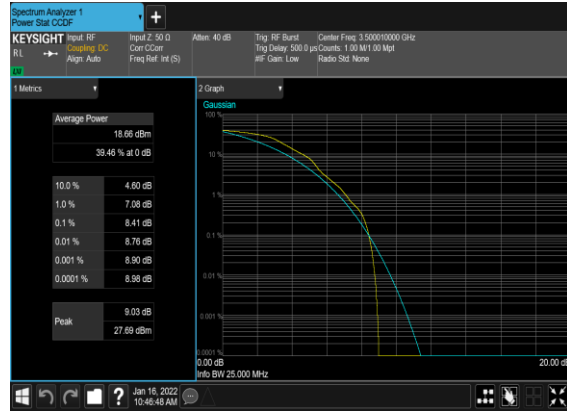
N78(20M)\_DFT-s-OFDM\_PI\_2-BPSK\_Edge\_1RB\_Left\_Mid\_CH



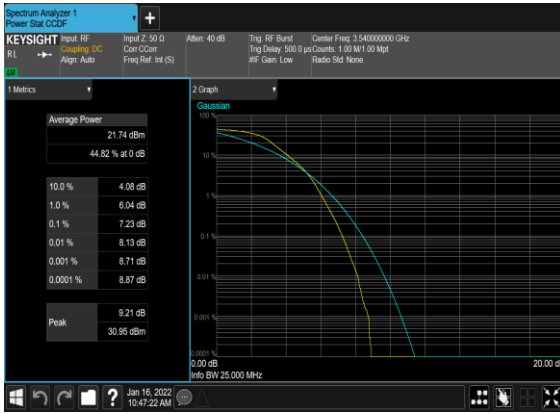
N78(20M)\_DFT-s-OFDM\_QPSK\_Outer\_Full\_Mid\_CH



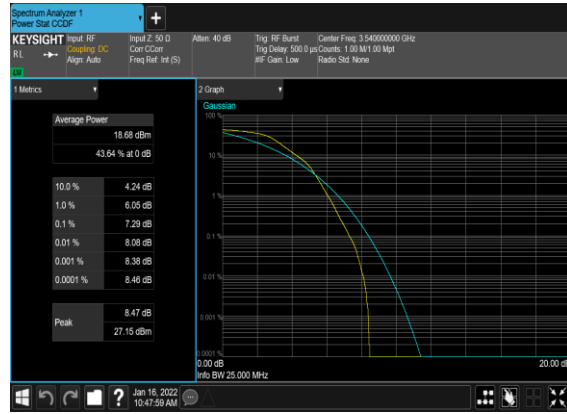
N78(20M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



N78(20M)\_DFT-s-OFDM\_PI\_2-BPSK\_Outer\_Full\_High\_CH



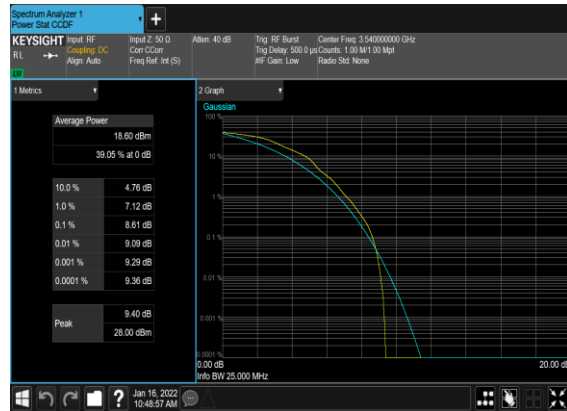
N78(20M)\_DFT-s-OFDM\_PI\_2-BPSK\_Edge\_1RB\_Left\_High\_CH



N78(20M)\_DFT-s-OFDM\_QPSK\_Outer\_Full\_High\_CH



N78(20M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH



## Occupied Bandwidth

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB OBW (MHz)
78	30	10	633334	3500.01	DFT-s-OFDM PI/2 BPSK	24@0	8.6048	9.372
78	30	10	633334	3500.01	DFT-s-OFDM QPSK	24@0	8.576	9.332
78	30	10	633334	3500.01	CP-OFDM QPSK	24@0	8.5648	9.328
78	30	10	633334	3500.01	CP-OFDM 16 QAM	24@0	8.5892	9.259
78	30	10	633334	3500.01	CP-OFDM 64 QAM	24@0	8.594	9.301
78	30	10	633334	3500.01	CP-OFDM 256 QAM	24@0	8.5792	9.366
78	30	15	633334	3500.01	DFT-s-OFDM PI/2 BPSK	36@0	12.852	13.78
78	30	15	633334	3500.01	DFT-s-OFDM QPSK	36@0	12.819	13.82
78	30	15	633334	3500.01	CP-OFDM QPSK	38@0	13.571	14.53
78	30	15	633334	3500.01	CP-OFDM 16 QAM	38@0	13.544	14.45
78	30	15	633334	3500.01	CP-OFDM 64 QAM	38@0	13.589	14.41
78	30	15	633334	3500.01	CP-OFDM 256 QAM	38@0	13.572	14.55
78	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	50@0	17.796	18.73
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	17.803	18.8
78	30	20	633334	3500.01	CP-OFDM QPSK	51@0	18.172	19.44
78	30	20	633334	3500.01	CP-OFDM 16 QAM	51@0	18.202	19.4
78	30	20	633334	3500.01	CP-OFDM 64 QAM	51@0	18.194	19.35
78	30	20	633334	3500.01	CP-OFDM 256 QAM	51@0	18.191	19.35
78	30	30	633334	3500.01	DFT-s-OFDM PI/2 BPSK	75@0	26.737	28.63
78	30	30	633334	3500.01	DFT-s-OFDM QPSK	75@0	26.785	28.3
78	30	30	633334	3500.01	CP-OFDM QPSK	78@0	27.772	29.33
78	30	30	633334	3500.01	CP-OFDM 16 QAM	78@0	27.827	29.35
78	30	30	633334	3500.01	CP-OFDM 64 QAM	78@0	27.809	29.22
78	30	30	633334	3500.01	CP-OFDM 256 QAM	78@0	27.93	29.13
78	30	40	633334	3500.01	DFT-s-OFDM PI/2 BPSK	100@0	35.721	37.33
78	30	40	633334	3500.01	DFT-s-OFDM QPSK	100@0	35.74	37.18
78	30	40	633334	3500.01	CP-OFDM QPSK	106@0	37.788	39.49
78	30	40	633334	3500.01	CP-OFDM 16 QAM	106@0	37.823	39.54
78	30	40	633334	3500.01	CP-OFDM 64 QAM	106@0	37.882	39.65
78	30	40	633334	3500.01	CP-OFDM 256 QAM	106@0	37.819	39.44
78	30	50	633334	3500.01	DFT-s-OFDM PI/2 BPSK	128@0	45.761	47.78
78	30	50	633334	3500.01	DFT-s-OFDM	128@0	45.729	48.18

QPSK									
78	30	50	633334	3500.01	CP-OFDM QPSK	133@0	47.461	49.18	
78	30	50	633334	3500.01	CP-OFDM 16 QAM	133@0	47.434	49.51	
78	30	50	633334	3500.01	CP-OFDM 64 QAM	133@0	47.407	49.25	
78	30	50	633334	3500.01	CP-OFDM 256 QAM	133@0	47.468	49.49	
78	30	60	633334	3500.01	DFT-s-OFDM PI/2 BPSK	162@0	57.844	59.88	
78	30	60	633334	3500.01	DFT-s-OFDM QPSK	162@0	57.806	59.84	
78	30	60	633334	3500.01	CP-OFDM QPSK	162@0	57.802	59.86	
78	30	60	633334	3500.01	CP-OFDM 16 QAM	162@0	57.678	59.71	
78	30	60	633334	3500.01	CP-OFDM 64 QAM	162@0	57.923	59.93	
78	30	60	633334	3500.01	CP-OFDM 256 QAM	162@0	57.817	59.78	
78	30	70	633334	3500.01	DFT-s-OFDM PI/2 BPSK	180@0	64.449	67.23	
78	30	70	633334	3500.01	DFT-s-OFDM QPSK	180@0	64.356	66.73	
78	30	70	633334	3500.01	CP-OFDM QPSK	189@0	67.475	69.84	
78	30	70	633334	3500.01	CP-OFDM 16 QAM	189@0	67.472	70.01	
78	30	70	633334	3500.01	CP-OFDM 64 QAM	189@0	67.605	69.84	
78	30	70	633334	3500.01	CP-OFDM 256 QAM	189@0	67.529	70.03	
78	30	80	633334	3500.01	DFT-s-OFDM PI/2 BPSK	216@0	78.217	79.76	
78	30	80	633334	3500.01	DFT-s-OFDM QPSK	216@0	78.07	79.99	
78	30	80	633334	3500.01	CP-OFDM QPSK	217@0	78.329	80.05	
78	30	80	633334	3500.01	CP-OFDM 16 QAM	217@0	78.51	79.94	
78	30	80	633334	3500.01	CP-OFDM 64 QAM	217@0	78.557	79.99	
78	30	80	633334	3500.01	CP-OFDM 256 QAM	217@0	78.396	80.17	
78	30	90	633334	3500.01	DFT-s-OFDM PI/2 BPSK	240@0	85.708	88.65	
78	30	90	633334	3500.01	DFT-s-OFDM QPSK	240@0	85.684	88.67	
78	30	90	633334	3500.01	CP-OFDM QPSK	245@0	87.347	90.36	
78	30	90	633334	3500.01	CP-OFDM 16 QAM	245@0	87.457	90.19	
78	30	90	633334	3500.01	CP-OFDM 64 QAM	245@0	87.286	90.29	
78	30	90	633334	3500.01	CP-OFDM 256 QAM	245@0	87.357	90.39	
78	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	270@0	96.203	99.54	
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	270@0	96.374	99.62	
78	30	100	633334	3500.01	CP-OFDM QPSK	273@0	97.384	100.6	
78	30	100	633334	3500.01	CP-OFDM 16 QAM	273@0	97.343	100.5	
78	30	100	633334	3500.01	CP-OFDM 64 QAM	273@0	97.345	100.6	



78	30	100	633334	3500.01	CP-OFDM 256 QAM	273@0	97.225	100.8
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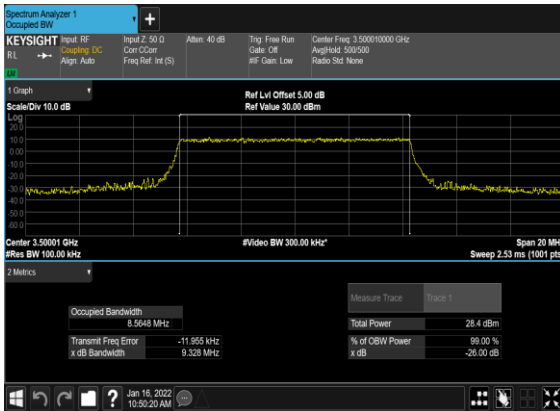
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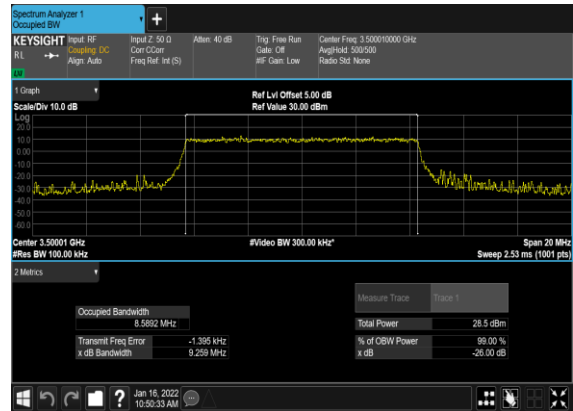
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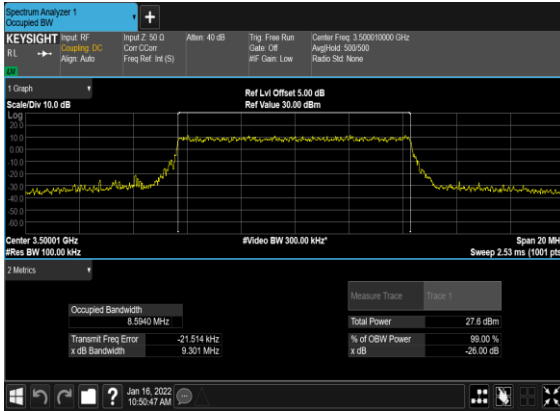
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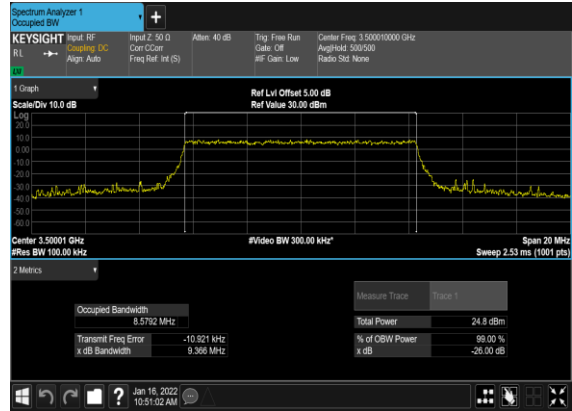
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QAM\_Outer\_Full\_Mid\_CH



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QAM\_Outer\_Full\_Mid\_CH



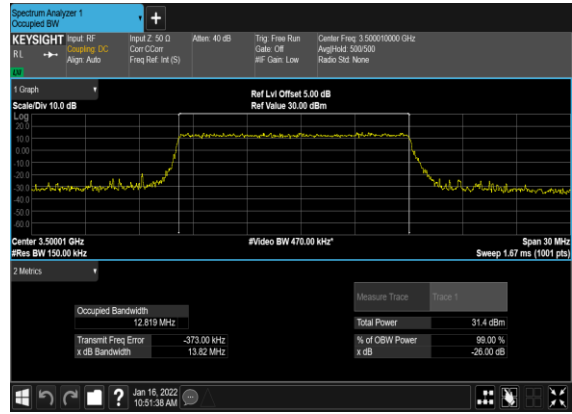
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QAM\_Outer\_Full\_Mid\_CH



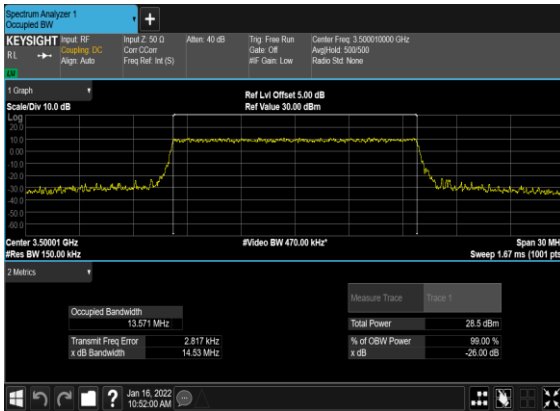
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BPSK\_Outer\_Full\_Mid\_CH



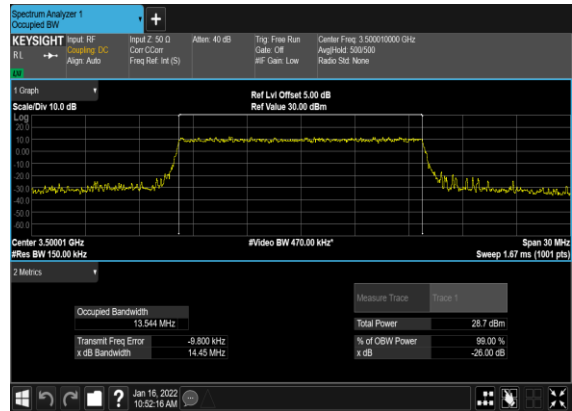
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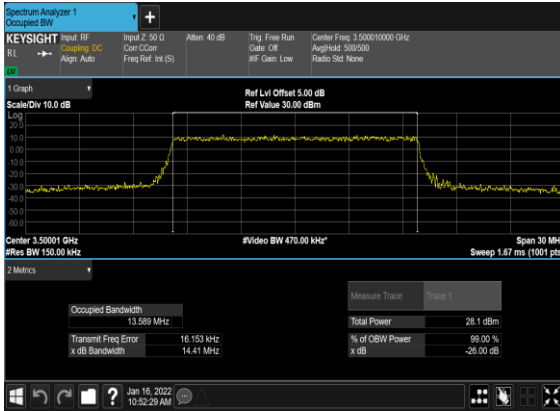
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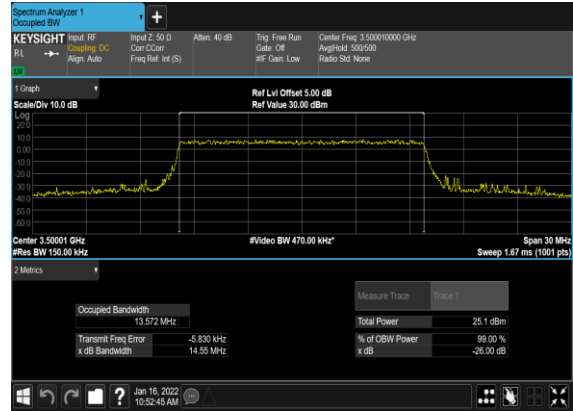
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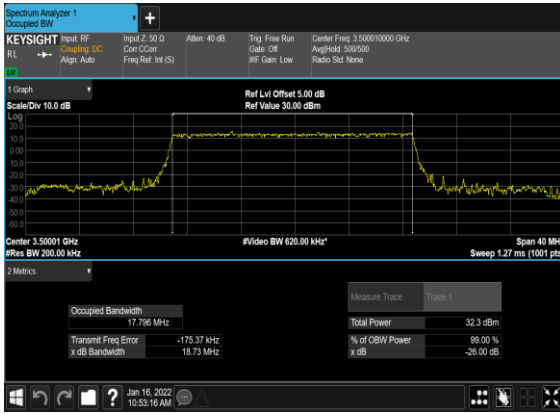
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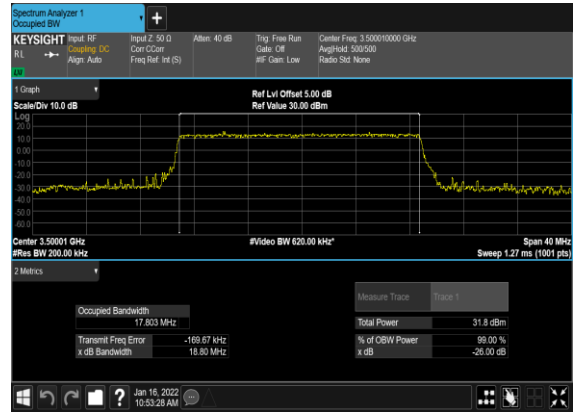
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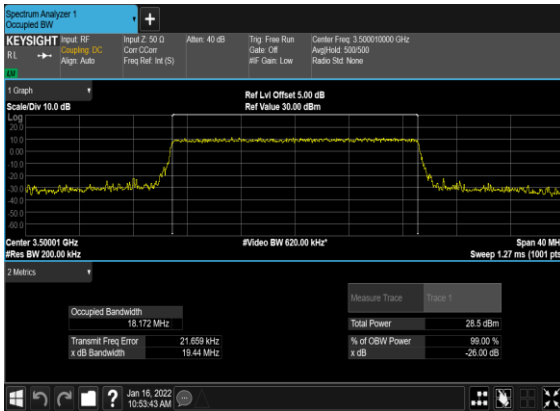
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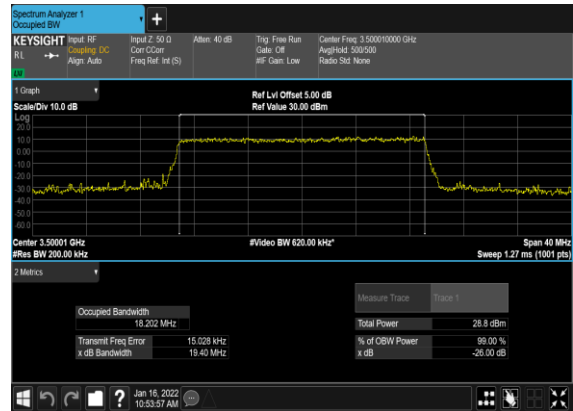
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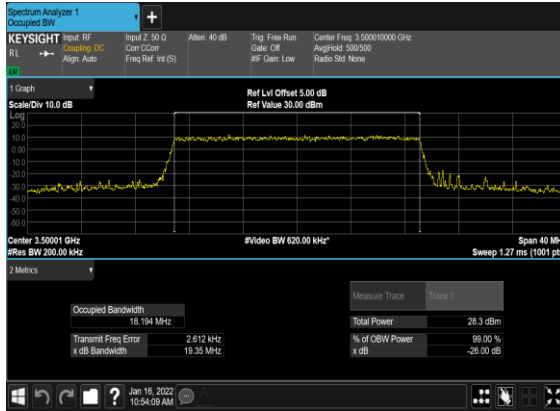
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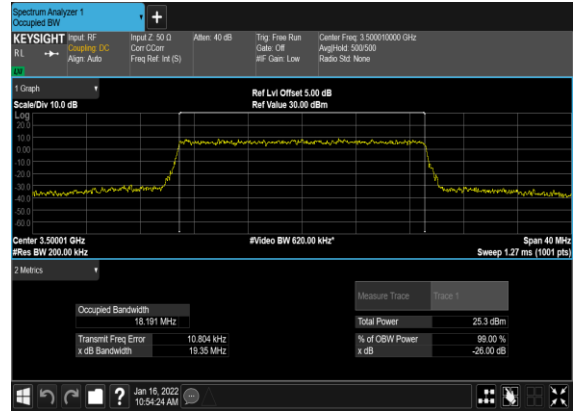
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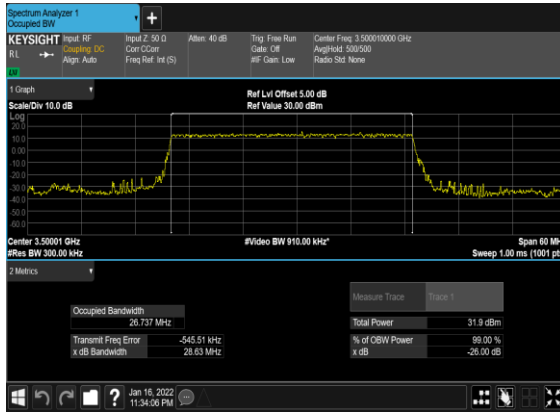
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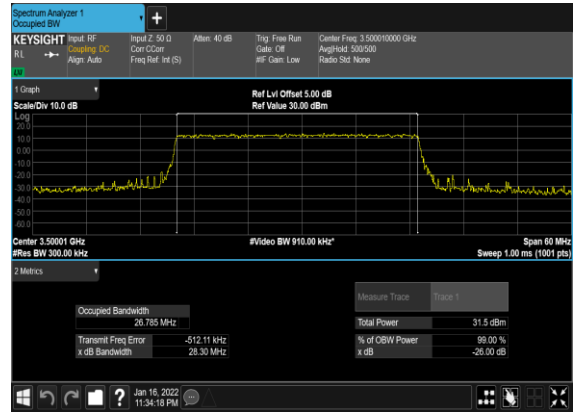
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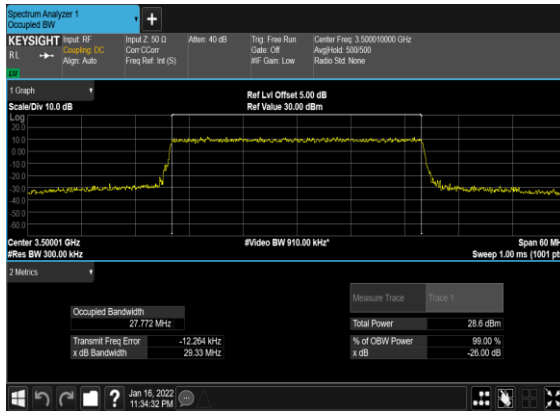
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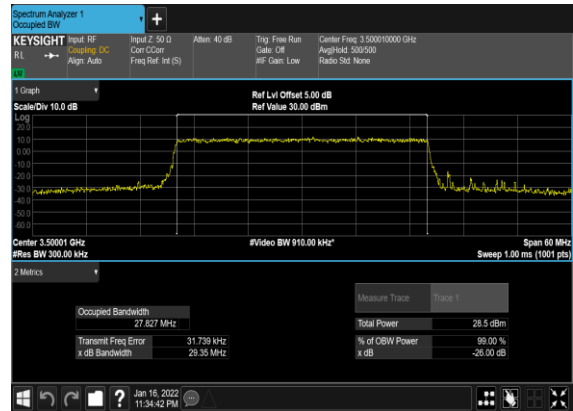
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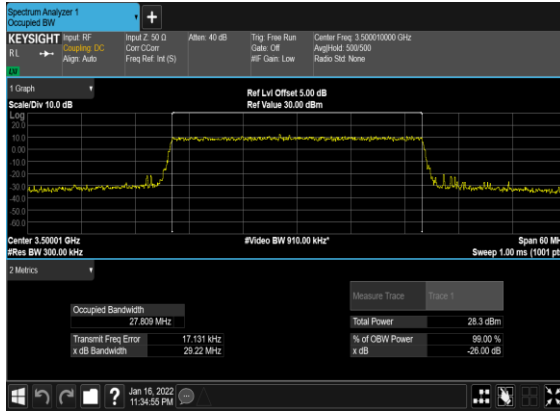
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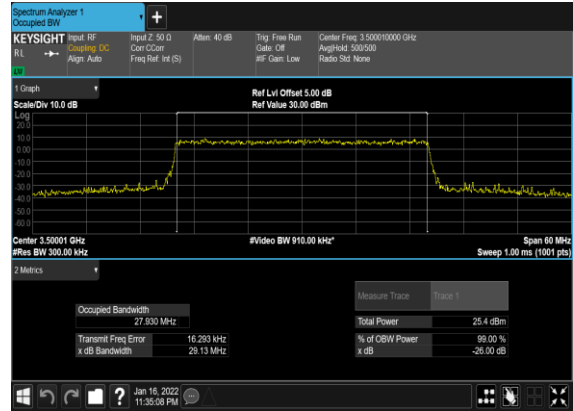
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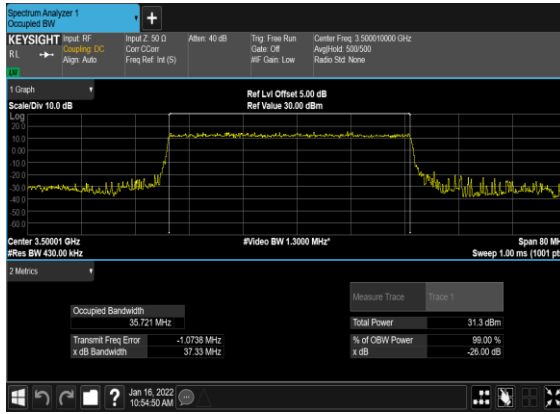
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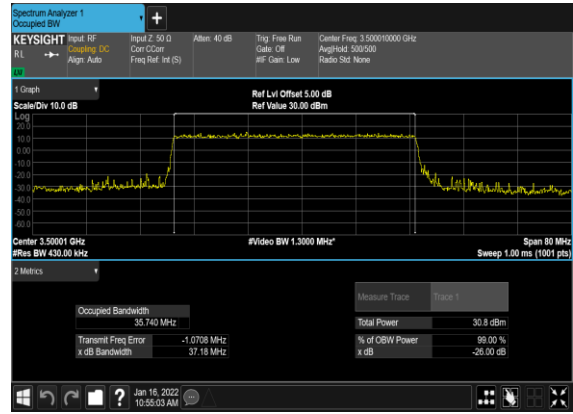
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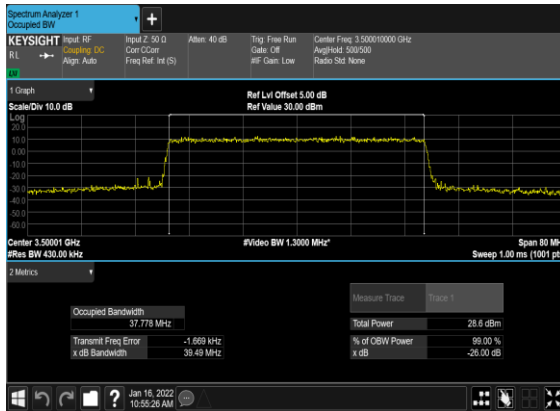
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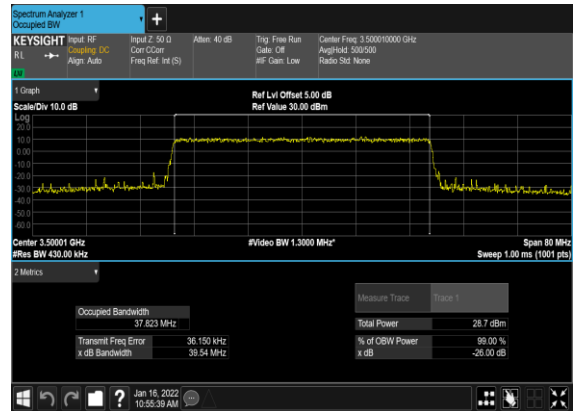
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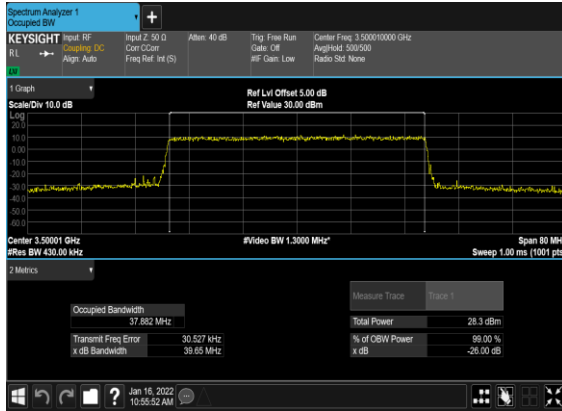
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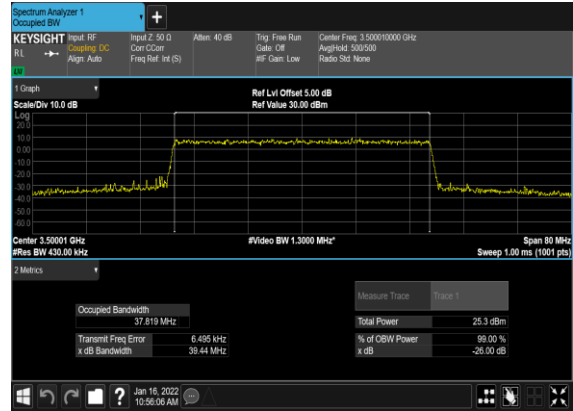
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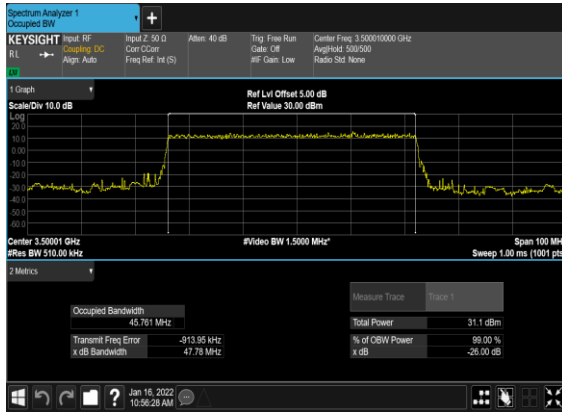
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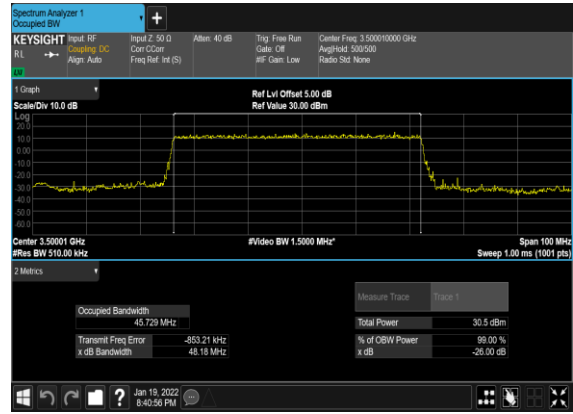
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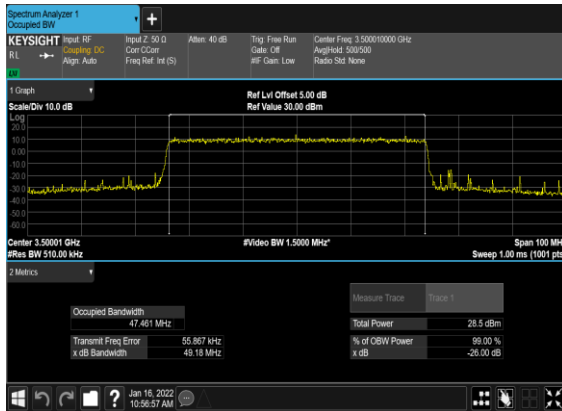
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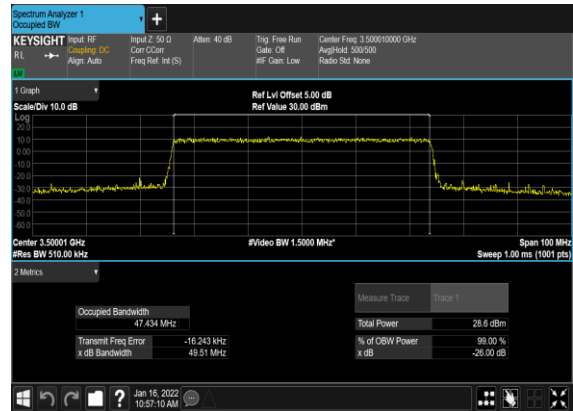
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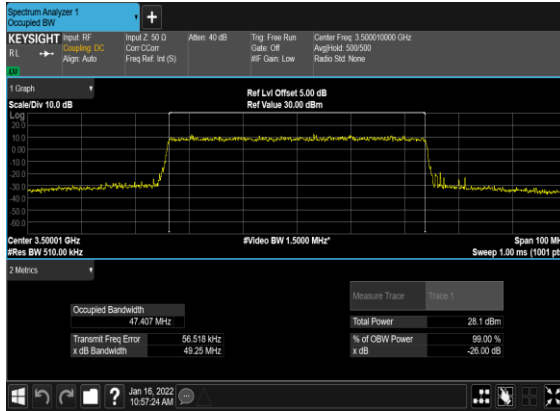
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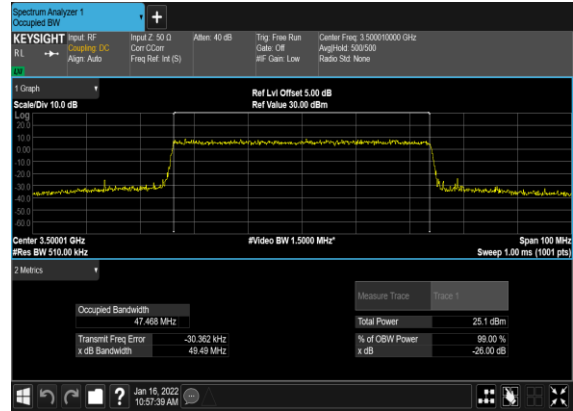
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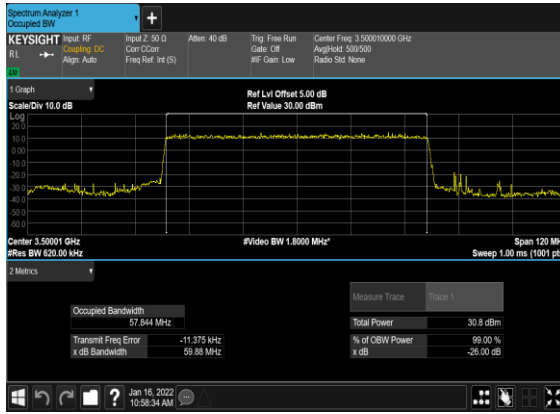
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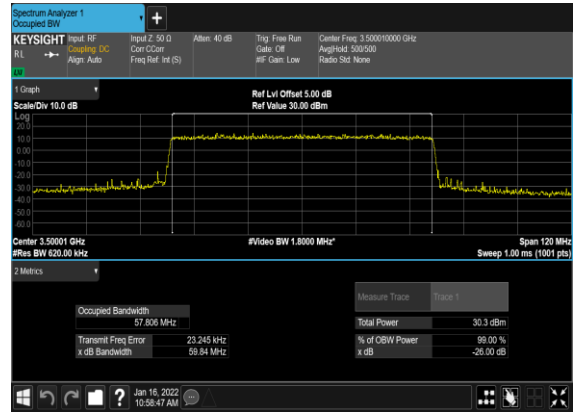
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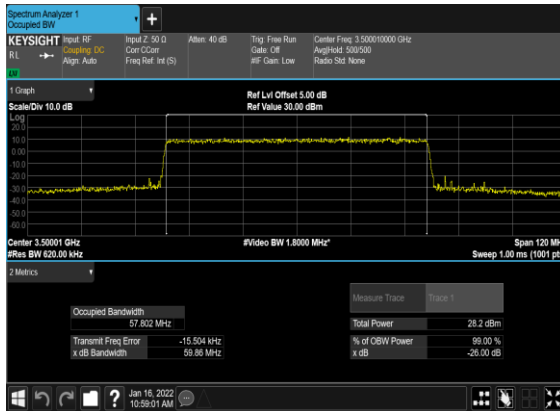
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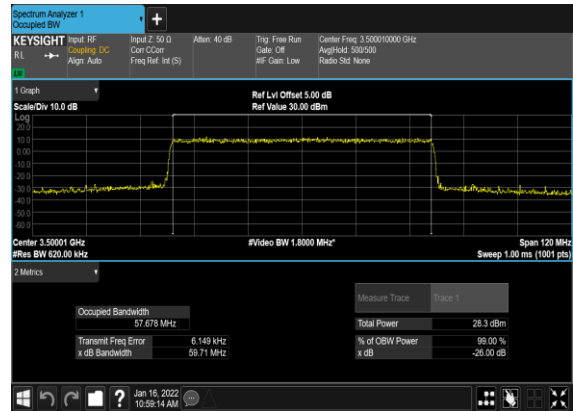
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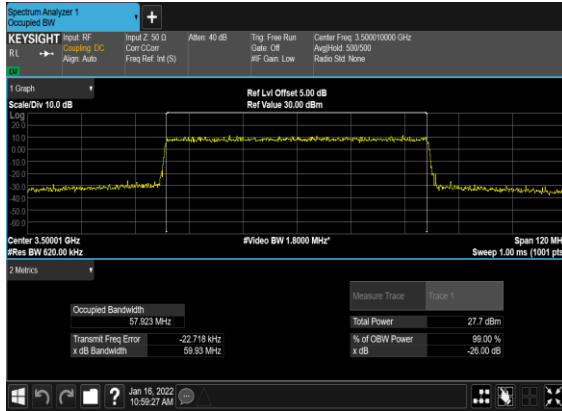
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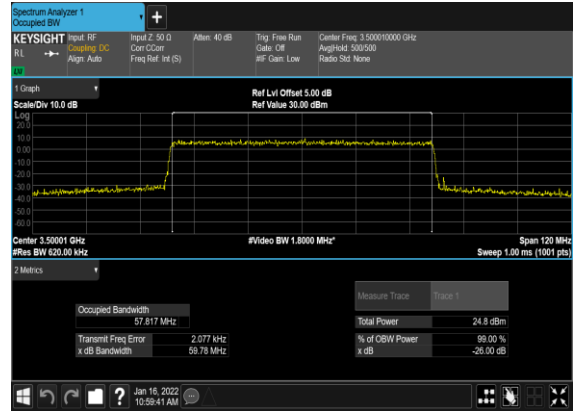
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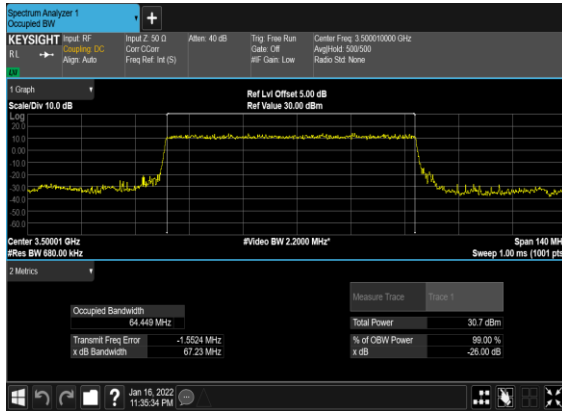
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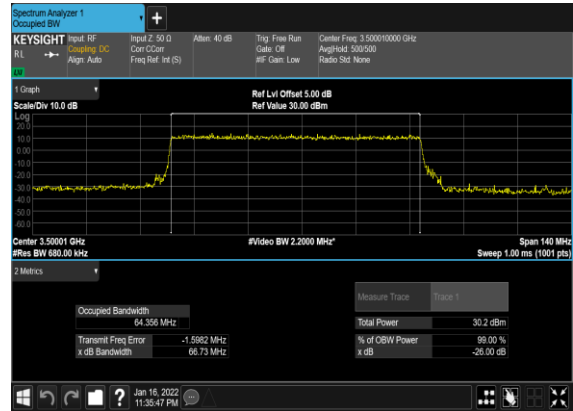
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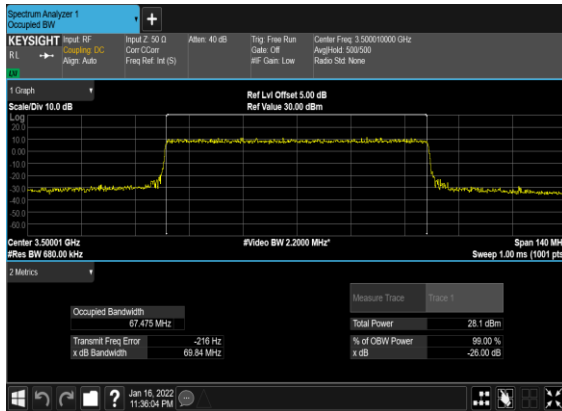
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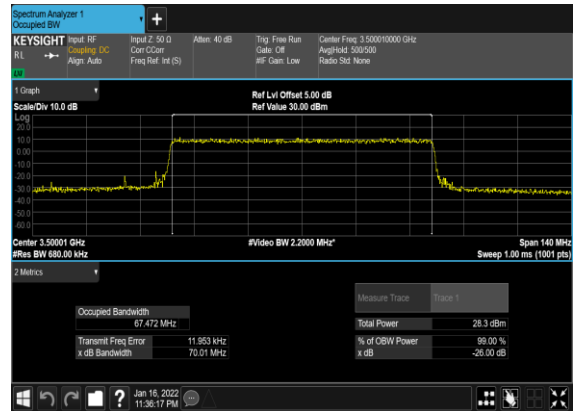
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### N78(70M)\_CP- OFDM\_QPSK\_Outer\_Full\_Mid\_CH

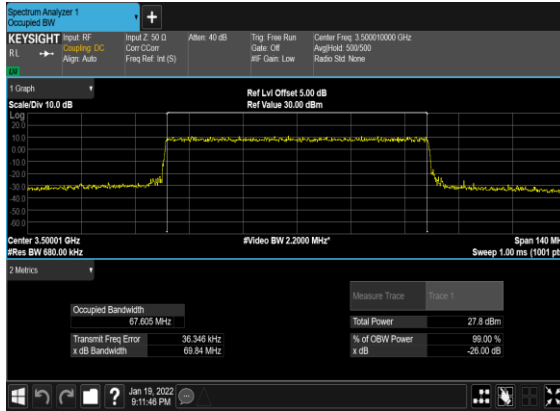


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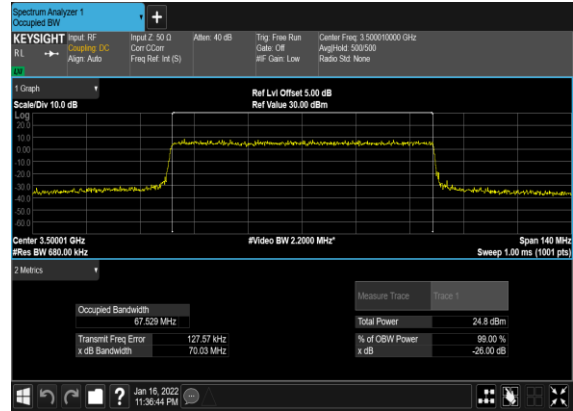




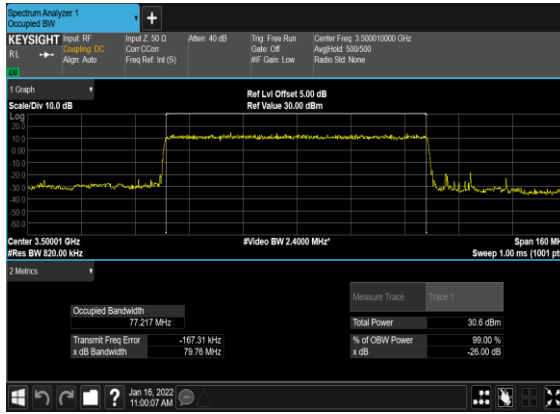
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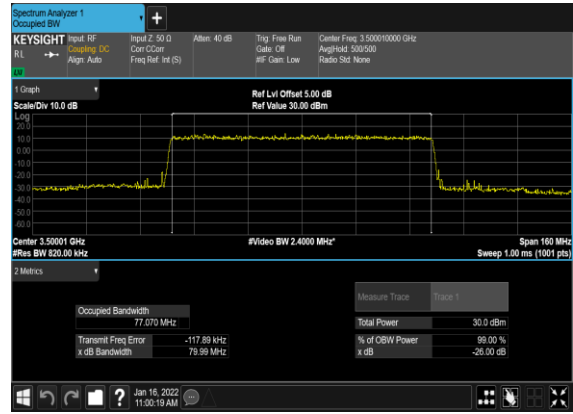
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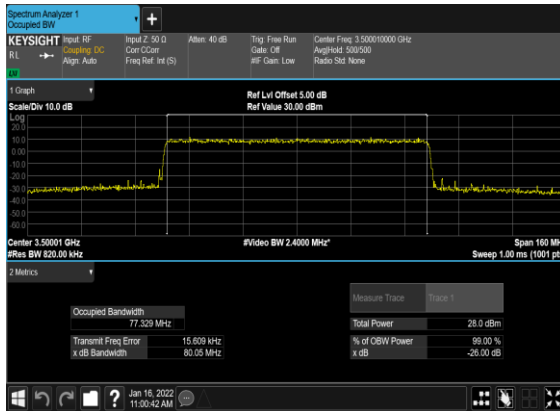
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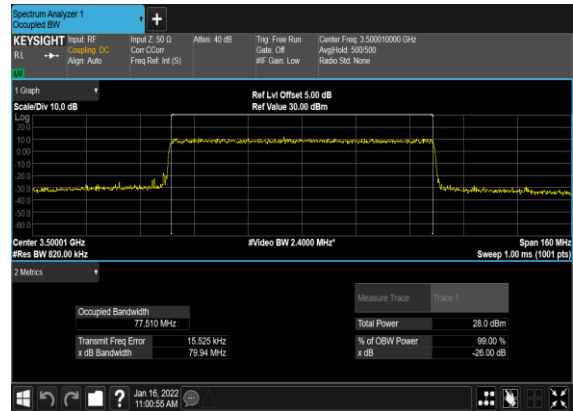
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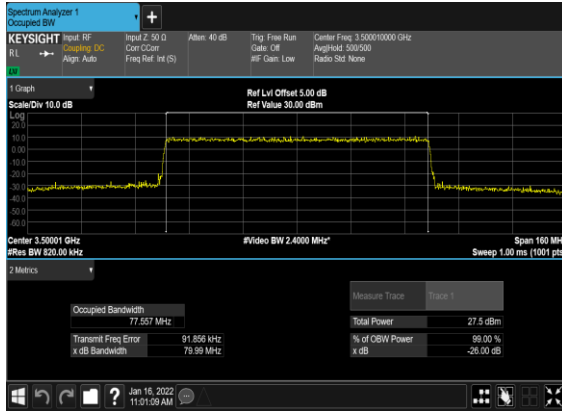
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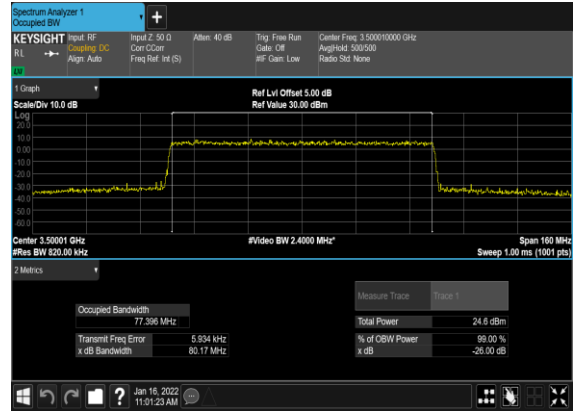
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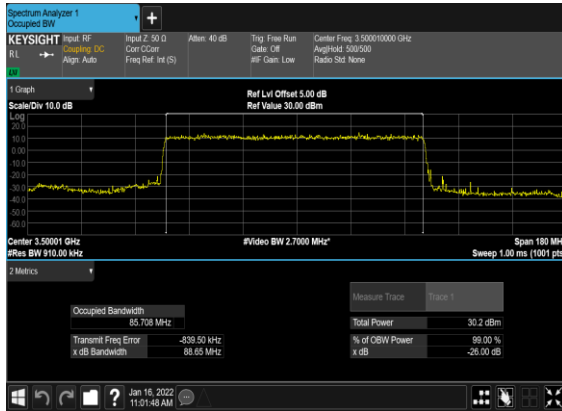
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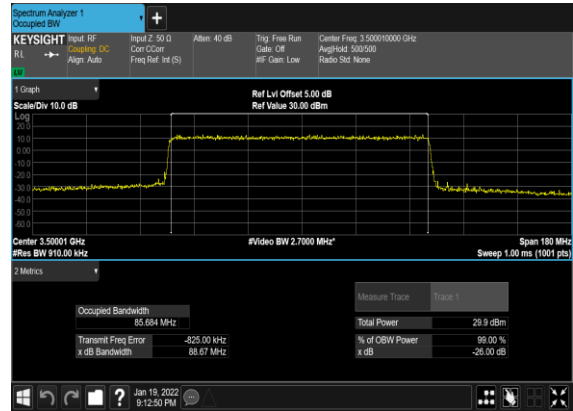
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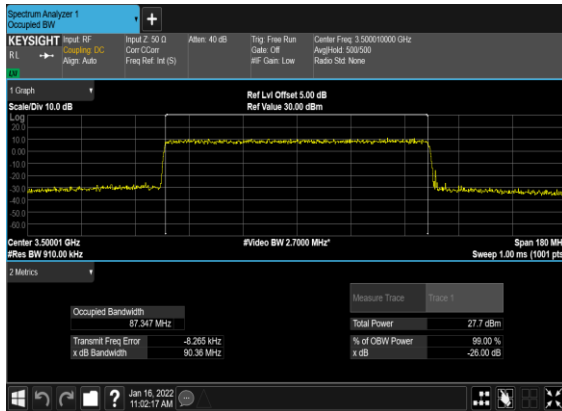
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### N78(90M)\_DFT-s- OFDM\_QPSK\_Outer\_Full\_Mid\_CH



### N78(90M)\_CP- OFDM\_QPSK\_Outer\_Full\_Mid\_CH



### N78(90M)\_CP-OFDM\_16 QAM\_Outer\_Full\_Mid\_CH

