

FCC RF Test Report

APPLICANT : Xiaomi Communications Co., Ltd.
EQUIPMENT : Mobile Phone
BRAND NAME : XIAOMI
MODEL NAME : 2109119DG
FCC ID : 2AFZZ119DG
STANDARD : 47 CFR Part 2, Part 27 Subpart Q
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)
TEST DATE(S) : Jul. 06, 2021 ~ Jul. 22, 2021

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

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

Jason Jia

Reviewed by: Jason Jia / Supervisor

Alex Wang

Approved by: Alex Wang / Manager



Sporton International (Kunshan) Inc.

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



TABLE OF CONTENTS

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



REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG162118G	Rev. 01	Initial issue of report	Aug. 02, 2021

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	Reporting Only	PASS	-
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	Reporting Only	PASS	-
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 17.67 dB at 13806.000 MHz

Declaration of Conformity:

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

Comments and Explanations:

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



1 General Description

1.1 Applicant

Xiaomi Communications Co., Ltd.
 #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

1.2 Manufacturer

Xiaomi Communications Co., Ltd.
 #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Phone
Brand Name	XIAOMI
Model Name	2109119DG
FCC ID	2AFZZ119DG
IMEI Code	Conducted : 865950050015692/865950050015700 Radiation : 865950050031798/865950050031806 865950050022839/865950050022847
HW Version	P2
SW Version	MIUI12.5
EUT Stage	Identical Prototype

1.4 Product Specification of Equipment Under Test

Product Feature	
Tx/Rx Frequency	5G NR n77: 3450 MHz ~ 3550 MHz 5G NR n78: 3450 MHz ~ 3550 MHz
Bandwidth	20MHz / 30MHz / 40MHz / 50MHz / 60MHz / 70MHz / 80MHz / 90MHz / 100MHz
SCS	30kHz
Maximum Output Power to Antenna	<Ant. 6>: 5G NR n77 : 23.88 dBm 5G NR n78 : 26.75 dBm
Antenna Gain	<Ant. 4>: 5G NR n77 : -1.6 dBi 5G NR n78 : -1.6 dBi <Ant. 6>: 5G NR n77 : -2.0 dBi 5G NR n78 : -2.0 dBi <Ant. 8>: 5G NR n77 : -0.8 dBi

	5G NR n78 : -0.8 dBi <Ant. 12> 5G NR n77 : -3.9 dBi 5G NR n78 : -3.9 dBi
Type of Modulation	CP-OFDM: QPSK / 16QAM / 64QAM / 256QAM DFT-s-OFDM: PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM

1.5 Modification of EUT

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

1.6 Maximum EIRP Power and Emission Designator

5G NR n78/ n77		BPSK/QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
20	3460.02 ~ 3540	0.2871	18M2G7D	0.2270	18M3W7D
30	3465 ~ 3534.99	0.2965	27M8G7D	0.2366	27M9W7D
40	3470.01 ~ 3529.98	0.2979	37M7G7D	0.2460	37M9W7D
50	3475.02 ~ 3525	0.2710	47M5G7D	0.2153	47M6W7D
60	3480 ~ 3519.99	0.2780	57M8G7D	0.2168	57M9W7D
70	3485.01 ~ 3514.98	0.2748	67M5G7D	0.2239	67M6W7D
80	3490.02 ~ 3510	0.2698	77M6G7D	0.2193	77M6W7D
90	3495 ~ 3504.99	0.2729	87M5G7D	0.2173	87M5W7D
100	3500.01	0.2985	97M7G7D	0.2218	97M5W7D

Note:

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

1.7 Testing Site

<FCC>-KS

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

Test Firm	Sporton International (Kunshan) Inc.		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158 FAX : +86-512-57900958		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	03CH04-KS TH01-KS	CN1257	314309

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.

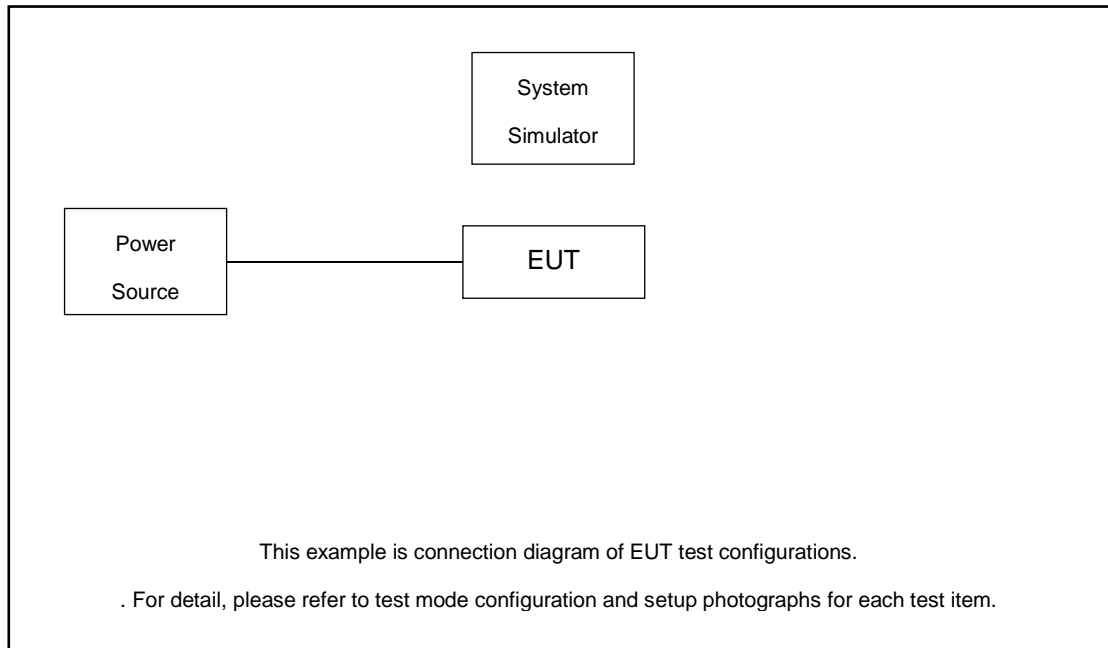
Radiated measurements are performed by rotating the EUT in three different orthogonal test planes to find the maximum emission.

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	5M, 10M, 15M, 20M	QPSK, 16QAM, 64QAM	1RB, Partial RB, Full RB	L, M, H
Peak-to-Average Ratio	5G n78	20M	QPSK, 16QAM, 64QAM	Full RB	M
E.I.R.P	5G n78	5M, 10M, 15M, 20M	QPSK, 16QAM, 64QAM	1RB, Partial RB, Full RB	L, M, H
26dB and 99% Bandwidth	5G n78	20M	QPSK, 16QAM	Full RB	M
Conducted Band Edge	5G n78	5M, 10M, 15M, 20M	QPSK, 16QAM, 64QAM	1RB, Full RB	L, H
Conducted Spurious Emission	5G n78	5M, 10M, 15M, 20M	QPSK	1RB	L, M, H
Frequency Stability	5G n78	20M	QPSK	1RB	L, H
Radiated Spurious Emission	5G n77/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 Band n78 overlaps the entire frequency range of Band n77. Therefore, the test results provided in this report covers Band n78 as well as Band n77.
3. Based on engineering evaluation, only the worst modulations test results are shown in the report.
4. 5G NR n78 supports SA mode and NSA mode. For NSA mode of all EN-DC combination, we only show the combination of the maximum power among all NSA combinations in the report.
5. For modulation of CP-OFDM and DFT-s-OFDM, the maximum power of CP-OFDM is lower than DFT-s-OFDM modulation, therefore, we chose higher power (DFT-s-OFDM modulation) to perform all tests and show in the report
6. 5G NR n78 supports HPUE.

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	N/A	N/A	Unshielded, 1.8 m
3.	NR Base Station	Anritsu	MT8000A	N/A	N/A	Unshielded, 1.8 m

2.4 Measurement Results Explanation Example

For all conducted test items:

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

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

$$\text{Offset} = \text{RF cable loss} + \text{attenuator factor}.$$

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

Example :

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)}. \\ &= 4.2 + 10 = 14.2 \text{ (dB)} \end{aligned}$$

2.5 Frequency List of Low/Middle/High Channels

5G n77/n78 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
100	Channel	-	633334	-
	Frequency	-	3500.01	-
90	Channel	633000	633334	633666
	Frequency	3495.00	3500.01	3504.99
80	Channel	632668	633334	634000
	Frequency	3490.02	3500.01	3510.00
70	Channel	632334	633334	634332
	Frequency	3485.01	3500.01	3514.98
60	Channel	632000	633334	634666
	Frequency	3480.00	3500.01	3519.99
50	Channel	631668	633334	635000
	Frequency	3475.02	3500.01	3525.00
40	Channel	631334	633334	635332
	Frequency	3470.01	3500.01	3529.98
30	Channel	631000	633334	635666
	Frequency	3465.00	3500.01	3534.99
20	Channel	630668	633334	636000
	Frequency	3460.02	3500.01	3540.00

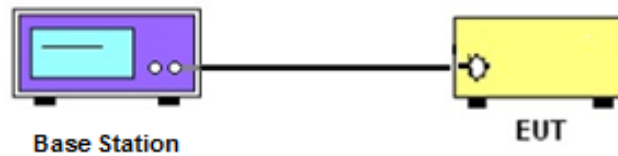
3 Conducted Test Items

3.1 Measuring Instruments

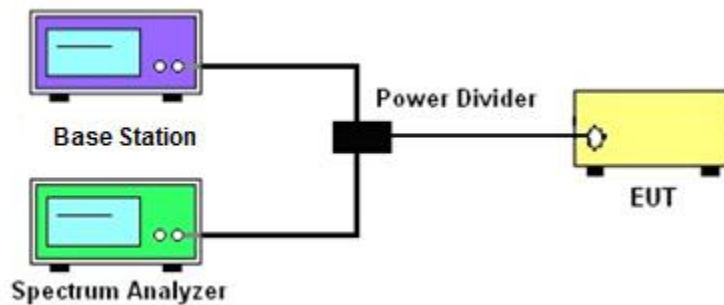
See list of measuring instruments of this test report.

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 500KHz.
6. Beyond the 5 MHz removed from the band edge, set RBW = 1MHz.
7. Set spectrum analyzer with RMS detector.
8. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
9. Checked that all the results comply with the emission limit line.

3.9 Conducted Spurious Emission Measurement

3.9.1 Description of Conducted Spurious Emission Measurement

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

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

3.9.2 Test Procedures

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

3.10 Frequency Stability Measurement

3.10.1 Description of Frequency Stability Measurement

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block.

3.10.2 Test Procedures for Temperature Variation

1. The testing follows ANSI C63.26 section 5.6.4
2. The EUT was set up in the thermal chamber and connected with the system simulator.
3. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
4. With power OFF, the temperature was raised in 10°C step up to 50°C . The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

3.10.3 Test Procedures for Voltage Variation

1. The testing follows ANSI C63.26 section 5.6.5.
2. The EUT was placed in a temperature chamber at $20\pm 5^{\circ}\text{C}$ 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.

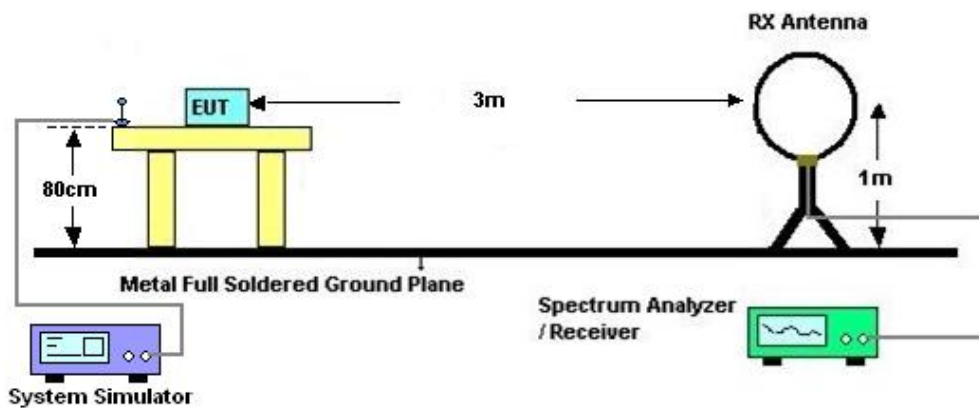
4 Radiated Test Items

4.1 Measuring Instruments

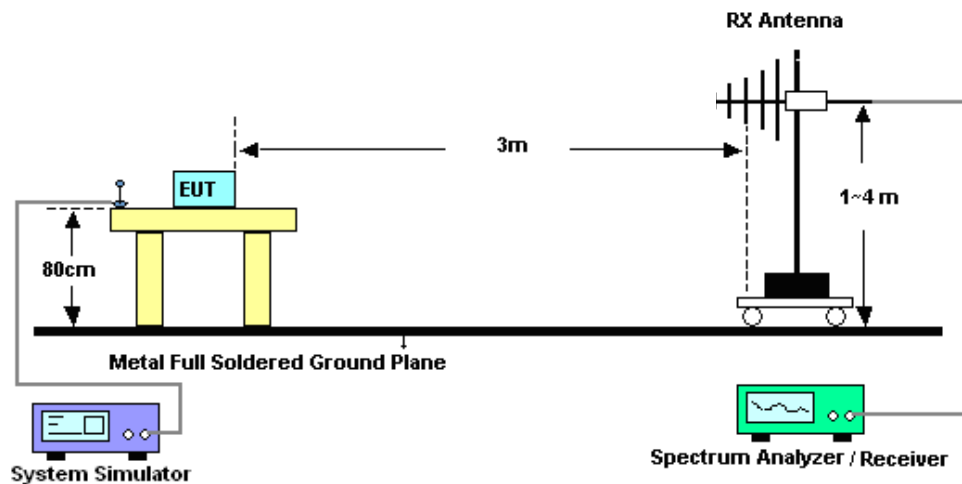
See list of measuring instruments of this test report.

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 C63.26-2015. The power of any emission outside of the authorized operating frequency ranges shall not exceed -13 dBm/MHz.

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

4.4.2 Test Procedures

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



5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Nov. 01, 2020	Jul. 06, 2021~ Jul. 22, 2021	Oct. 31, 2021	Conducted (TH01-KS)
Power divider	STI	STI08-0055	-	0.5~40GHz	Aug. 27, 2020	Jul. 06, 2021~ Jul. 22, 2021	Aug. 26, 2021	Conducted (TH01-KS)
Temperature & humidity chamber	Hongzhan	LP-150U	H2014011440	-40~+150°C 20%~95%RH	Jul. 02, 2021	Jul. 06, 2021~ Jul. 22, 2021	Jul. 01, 2022	Conducted (TH01-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150244	10Hz-44G,MAX 30dB	Apr. 13, 2021	Jul. 21, 2021	Apr. 12, 2022	Radiation (03CH04-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Nov. 1, 2020	Jul. 21, 2021	Oct. 31, 2021	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	49922	30MHz-1GHz	Jun. 07, 2021	Jul. 21, 2021	Jun. 06, 2022	Radiation (03CH04-KS)
Horn Antenna	Schwarzbeck	BBHA9120D	1356	1GHz~18GHz	Apr. 18, 2021	Jul. 21, 2021	Apr. 17, 2022	Radiation (03CH04-KS)
SHF-EHF Horn	Com-power	AH-840	101115	18GHz~40GHz	Jan. 06, 2021	Jul. 21, 2021	Jan. 05, 2022	Radiation (03CH04-KS)
Amplifier	SONOMA	310N	187289	9KHz-1GHz	Jan. 06, 2021	Jul. 21, 2021	Jan. 05, 2022	Radiation (03CH04-KS)
Amplifier	MITEQ	EM18G40G GA	060728	18~40GHz	Jan. 07, 2021	Jul. 21, 2021	Jan. 06, 2022	Radiation (03CH04-KS)
high gain Amplifier	MITEQ	AMF-7D-00 101800-30-1 0P	2025788	1Ghz-18Ghz	Jan. 06, 2021	Jul. 21, 2021	Jan. 05, 2022	Radiation (03CH04-KS)
Amplifier	Keysight	83017A	MY57280106	500MHz~26.5GHz	Oct. 14, 2020	Jul. 21, 2021	Oct. 13, 2021	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Jul. 21, 2021	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Jul. 21, 2021	NCR	Radiation (03CH04-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Jul. 21, 2021	NCR	Radiation (03CH04-KS)

NCR: No Calibration Required

6 Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.26-2015. All the measurement uncertainty value were shown with a coverage $K=2$ to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

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

Conducted Output Power(Average power) and EIRP

FR1 N77**Transmitter Conducted Output Power And ERP/EIRP, ($G_T - L_C$)=-2.0dB**

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	EIRP (dBm)	EIRP (W)
77	30	20	630668	3460.02	DFT-s-OFDM PI/2 BPSK	25@12	23.27	21.27	0.1340
77	30	20	630668	3460.02	DFT-s-OFDM PI/2 BPSK	1@1	23.28	21.28	0.1343
77	30	20	630668	3460.02	DFT-s-OFDM PI/2 BPSK	1@49	23.37	21.37	0.1371
77	30	20	630668	3460.02	DFT-s-OFDM QPSK	25@12	23.26	21.26	0.1337
77	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@1	23.39	21.39	0.1377
77	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@49	23.5	21.5	0.1413
77	30	20	630668	3460.02	DFT-s-OFDM 16 QAM	25@12	22.33	20.33	0.1079
77	30	20	630668	3460.02	DFT-s-OFDM 16 QAM	1@1	22.52	20.52	0.1127
77	30	20	630668	3460.02	DFT-s-OFDM 16 QAM	1@49	22.52	20.52	0.1127
77	30	20	630668	3460.02	DFT-s-OFDM 64 QAM	25@12	20.75	18.75	0.0750
77	30	20	630668	3460.02	DFT-s-OFDM 64 QAM	1@1	20.81	18.81	0.0760
77	30	20	630668	3460.02	DFT-s-OFDM 64 QAM	1@49	20.91	18.91	0.0778
77	30	20	630668	3460.02	DFT-s-OFDM 256 QAM	25@12	19.06	17.06	0.0508
77	30	20	630668	3460.02	DFT-s-OFDM 256 QAM	1@1	18.84	16.84	0.0483
77	30	20	630668	3460.02	DFT-s-OFDM 256 QAM	1@49	18.95	16.95	0.0495
77	30	20	630668	3460.02	CP-OFDM QPSK	25@121	20.48	18.48	0.0705
77	30	20	630668	3460.02	CP-OFDM QPSK	1@1	21.9	19.9	0.0977
77	30	20	630668	3460.02	CP-OFDM QPSK	1@49	21.9	19.9	0.0977
77	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	25@12	23.42	21.42	0.1387

77	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	23.52	21.52	0.1419
77	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@49	23.33	21.33	0.1358
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	25@12	23.29	21.29	0.1346
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@1	23.47	21.47	0.1403
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@49	23.29	21.29	0.1346
77	30	20	633334	3500.01	DFT-s-OFDM 16 QAM	25@12	22.33	20.33	0.1079
77	30	20	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	22.77	20.77	0.1194
77	30	20	633334	3500.01	DFT-s-OFDM 16 QAM	1@49	22.42	20.42	0.1102
77	30	20	633334	3500.01	DFT-s-OFDM 64 QAM	25@12	20.93	18.93	0.0782
77	30	20	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	20.97	18.97	0.0789
77	30	20	633334	3500.01	DFT-s-OFDM 64 QAM	1@49	21.09	19.09	0.0811
77	30	20	633334	3500.01	DFT-s-OFDM 256 QAM	25@12	19.13	17.13	0.0516
77	30	20	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	19.14	17.14	0.0518
77	30	20	633334	3500.01	DFT-s-OFDM 256 QAM	1@49	19.13	17.13	0.0516
77	30	20	633334	3500.01	CP-OFDM QPSK	25@121	20.54	18.54	0.0714
77	30	20	633334	3500.01	CP-OFDM QPSK	1@1	22.22	20.22	0.1052
77	30	20	633334	3500.01	CP-OFDM QPSK	1@49	21.99	19.99	0.0998
77	30	20	636000	3540	DFT-s-OFDM PI/2 BPSK	25@12	23.18	21.18	0.1312
77	30	20	636000	3540	DFT-s-OFDM PI/2 BPSK	1@1	23.18	21.18	0.1312
77	30	20	636000	3540	DFT-s-OFDM PI/2 BPSK	1@49	23.15	21.15	0.1303
77	30	20	636000	3540	DFT-s-OFDM QPSK	25@12	23.14	21.14	0.1300
77	30	20	636000	3540	DFT-s-OFDM QPSK	1@1	23.12	21.12	0.1294
77	30	20	636000	3540	DFT-s-OFDM QPSK	1@49	23.08	21.08	0.1282
77	30	20	636000	3540	DFT-s-OFDM 16 QAM	25@12	22.16	20.16	0.1038

77	30	20	636000	3540	DFT-s-OFDM 16 QAM	1@1	22.37	20.37	0.1089
77	30	20	636000	3540	DFT-s-OFDM 16 QAM	1@49	22.26	20.26	0.1062
77	30	20	636000	3540	DFT-s-OFDM 64 QAM	25@12	20.57	18.57	0.0719
77	30	20	636000	3540	DFT-s-OFDM 64 QAM	1@1	20.87	18.87	0.0771
77	30	20	636000	3540	DFT-s-OFDM 64 QAM	1@49	20.88	18.88	0.0773
77	30	20	636000	3540	DFT-s-OFDM 256 QAM	25@12	18.5	16.5	0.0447
77	30	20	636000	3540	DFT-s-OFDM 256 QAM	1@1	18.92	16.92	0.0492
77	30	20	636000	3540	DFT-s-OFDM 256 QAM	1@49	18.87	16.87	0.0486
77	30	20	636000	3540	CP-OFDM QPSK	25@121	20.35	18.35	0.0684
77	30	20	636000	3540	CP-OFDM QPSK	1@1	21.7	19.7	0.0933
77	30	20	636000	3540	CP-OFDM QPSK	1@49	21.69	19.69	0.0931
77	30	30	631000	3465	DFT-s-OFDM PI/2 BPSK	36@18	23.67	21.67	0.1469
77	30	30	631000	3465	DFT-s-OFDM PI/2 BPSK	1@1	23.52	21.52	0.1419
77	30	30	631000	3465	DFT-s-OFDM PI/2 BPSK	1@76	23.5	21.5	0.1413
77	30	30	631000	3465	DFT-s-OFDM QPSK	36@18	23.59	21.59	0.1442
77	30	30	631000	3465	DFT-s-OFDM QPSK	1@1	23.57	21.57	0.1435
77	30	30	631000	3465	DFT-s-OFDM QPSK	1@76	23.54	21.54	0.1426
77	30	30	631000	3465	DFT-s-OFDM 16 QAM	36@18	22.59	20.59	0.1146
77	30	30	631000	3465	DFT-s-OFDM 16 QAM	1@1	22.69	20.69	0.1172
77	30	30	631000	3465	DFT-s-OFDM 16 QAM	1@76	22.73	20.73	0.1183
77	30	30	631000	3465	DFT-s-OFDM 64 QAM	36@18	21.16	19.16	0.0824
77	30	30	631000	3465	DFT-s-OFDM 64 QAM	1@1	21.13	19.13	0.0818
77	30	30	631000	3465	DFT-s-OFDM 64 QAM	1@76	21.06	19.06	0.0805
77	30	30	631000	3465	DFT-s-OFDM 256 QAM	36@18	19.14	17.14	0.0518

77	30	30	631000	3465	DFT-s-OFDM 256 QAM	1@1	19.2	17.2	0.0525
77	30	30	631000	3465	DFT-s-OFDM 256 QAM	1@76	19.1	17.1	0.0513
77	30	30	631000	3465	CP-OFDM QPSK	39@19	22.05	20.05	0.1012
77	30	30	631000	3465	CP-OFDM QPSK	1@1	22.04	20.04	0.1009
77	30	30	631000	3465	CP-OFDM QPSK	1@76	22.07	20.07	0.1016
77	30	30	633334	3500.01	DFT-s-OFDM PI/2 BPSK	36@18	23.55	21.55	0.1429
77	30	30	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	23.81	21.81	0.1517
77	30	30	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@76	23.42	21.42	0.1387
77	30	30	633334	3500.01	DFT-s-OFDM QPSK	36@18	23.6	21.6	0.1445
77	30	30	633334	3500.01	DFT-s-OFDM QPSK	1@1	23.86	21.86	0.1535
77	30	30	633334	3500.01	DFT-s-OFDM QPSK	1@76	23.36	21.36	0.1368
77	30	30	633334	3500.01	DFT-s-OFDM 16 QAM	36@18	22.61	20.61	0.1151
77	30	30	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	22.94	20.94	0.1242
77	30	30	633334	3500.01	DFT-s-OFDM 16 QAM	1@76	22.43	20.43	0.1104
77	30	30	633334	3500.01	DFT-s-OFDM 64 QAM	36@18	21.16	19.16	0.0824
77	30	30	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	21.31	19.31	0.0853
77	30	30	633334	3500.01	DFT-s-OFDM 64 QAM	1@76	20.89	18.89	0.0774
77	30	30	633334	3500.01	DFT-s-OFDM 256 QAM	36@18	19.21	17.21	0.0526
77	30	30	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	19.29	17.29	0.0536
77	30	30	633334	3500.01	DFT-s-OFDM 256 QAM	1@76	18.91	16.91	0.0491
77	30	30	633334	3500.01	CP-OFDM QPSK	39@19	22.17	20.17	0.1040
77	30	30	633334	3500.01	CP-OFDM QPSK	1@1	22.33	20.33	0.1079
77	30	30	633334	3500.01	CP-OFDM QPSK	1@76	21.86	19.86	0.0968
77	30	30	635666	3534.99	DFT-s-OFDM PI/2 BPSK	36@18	23.32	21.32	0.1355

77	30	30	635666	3534.99	DFT-s-OFDM PI/2 BPSK	1@1	23.4	21.4	0.1380
77	30	30	635666	3534.99	DFT-s-OFDM PI/2 BPSK	1@76	23.2	21.2	0.1318
77	30	30	635666	3534.99	DFT-s-OFDM QPSK	36@18	23.32	21.32	0.1355
77	30	30	635666	3534.99	DFT-s-OFDM QPSK	1@1	23.41	21.41	0.1384
77	30	30	635666	3534.99	DFT-s-OFDM QPSK	1@76	23.28	21.28	0.1343
77	30	30	635666	3534.99	DFT-s-OFDM 16 QAM	36@18	22.4	20.4	0.1096
77	30	30	635666	3534.99	DFT-s-OFDM 16 QAM	1@1	22.67	20.67	0.1167
77	30	30	635666	3534.99	DFT-s-OFDM 16 QAM	1@76	22.48	20.48	0.1117
77	30	30	635666	3534.99	DFT-s-OFDM 64 QAM	36@18	20.84	18.84	0.0766
77	30	30	635666	3534.99	DFT-s-OFDM 64 QAM	1@1	20.92	18.92	0.0780
77	30	30	635666	3534.99	DFT-s-OFDM 64 QAM	1@76	20.67	18.67	0.0736
77	30	30	635666	3534.99	DFT-s-OFDM 256 QAM	36@18	19.03	17.03	0.0505
77	30	30	635666	3534.99	DFT-s-OFDM 256 QAM	1@1	19	17	0.0501
77	30	30	635666	3534.99	DFT-s-OFDM 256 QAM	1@76	18.75	16.75	0.0473
77	30	30	635666	3534.99	CP-OFDM QPSK	39@19	21.88	19.88	0.0973
77	30	30	635666	3534.99	CP-OFDM QPSK	1@1	22.1	20.1	0.1023
77	30	30	635666	3534.99	CP-OFDM QPSK	1@76	21.79	19.79	0.0953
77	30	40	631334	3470.01	DFT-s-OFDM PI/2 BPSK	50@25	23.69	21.69	0.1476
77	30	40	631334	3470.01	DFT-s-OFDM PI/2 BPSK	1@1	23.51	21.51	0.1416
77	30	40	631334	3470.01	DFT-s-OFDM PI/2 BPSK	1@104	23.58	21.58	0.1439
77	30	40	631334	3470.01	DFT-s-OFDM QPSK	50@25	23.61	21.61	0.1449
77	30	40	631334	3470.01	DFT-s-OFDM QPSK	1@1	23.58	21.58	0.1439
77	30	40	631334	3470.01	DFT-s-OFDM QPSK	1@104	23.52	21.52	0.1419
77	30	40	631334	3470.01	DFT-s-OFDM 16 QAM	50@25	22.65	20.65	0.1161

77	30	40	631334	3470.01	DFT-s-OFDM 16 QAM	1@1	22.57	20.57	0.1140
77	30	40	631334	3470.01	DFT-s-OFDM 16 QAM	1@104	22.65	20.65	0.1161
77	30	40	631334	3470.01	DFT-s-OFDM 64 QAM	50@25	21.11	19.11	0.0815
77	30	40	631334	3470.01	DFT-s-OFDM 64 QAM	1@1	21.03	19.03	0.0800
77	30	40	631334	3470.01	DFT-s-OFDM 64 QAM	1@104	20.99	18.99	0.0793
77	30	40	631334	3470.01	DFT-s-OFDM 256 QAM	50@25	19.17	17.17	0.0521
77	30	40	631334	3470.01	DFT-s-OFDM 256 QAM	1@1	19.41	17.41	0.0551
77	30	40	631334	3470.01	DFT-s-OFDM 256 QAM	1@104	19.14	17.14	0.0518
77	30	40	631334	3470.01	CP-OFDM QPSK	53@26	22.21	20.21	0.1050
77	30	40	631334	3470.01	CP-OFDM QPSK	1@1	22.25	20.25	0.1059
77	30	40	631334	3470.01	CP-OFDM QPSK	1@104	22.19	20.19	0.1045
77	30	40	633334	3500.01	DFT-s-OFDM PI/2 BPSK	50@25	23.62	21.62	0.1452
77	30	40	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	23.64	21.64	0.1459
77	30	40	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@104	23.26	21.26	0.1337
77	30	40	633334	3500.01	DFT-s-OFDM QPSK	50@25	23.64	21.64	0.1459
77	30	40	633334	3500.01	DFT-s-OFDM QPSK	1@1	23.67	21.67	0.1469
77	30	40	633334	3500.01	DFT-s-OFDM QPSK	1@104	23.3	21.3	0.1349
77	30	40	633334	3500.01	DFT-s-OFDM 16 QAM	50@25	22.61	20.61	0.1151
77	30	40	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	22.75	20.75	0.1189
77	30	40	633334	3500.01	DFT-s-OFDM 16 QAM	1@104	22.32	20.32	0.1076
77	30	40	633334	3500.01	DFT-s-OFDM 64 QAM	50@25	21.14	19.14	0.0820
77	30	40	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	21.16	19.16	0.0824
77	30	40	633334	3500.01	DFT-s-OFDM 64 QAM	1@104	20.85	18.85	0.0767
77	30	40	633334	3500.01	DFT-s-OFDM 256 QAM	50@25	19.15	17.15	0.0519

77	30	40	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	19.29	17.29	0.0536
77	30	40	633334	3500.01	DFT-s-OFDM 256 QAM	1@104	18.75	16.75	0.0473
77	30	40	633334	3500.01	CP-OFDM QPSK	53@26	22.22	20.22	0.1052
77	30	40	633334	3500.01	CP-OFDM QPSK	1@1	22.41	20.41	0.1099
77	30	40	633334	3500.01	CP-OFDM QPSK	1@104	21.78	19.78	0.0951
77	30	40	635332	3529.98	DFT-s-OFDM PI/2 BPSK	50@25	23.45	21.45	0.1396
77	30	40	635332	3529.98	DFT-s-OFDM PI/2 BPSK	1@1	23.42	21.42	0.1387
77	30	40	635332	3529.98	DFT-s-OFDM PI/2 BPSK	1@104	23.19	21.19	0.1315
77	30	40	635332	3529.98	DFT-s-OFDM QPSK	50@25	23.37	21.37	0.1371
77	30	40	635332	3529.98	DFT-s-OFDM QPSK	1@1	23.47	21.47	0.1403
77	30	40	635332	3529.98	DFT-s-OFDM QPSK	1@104	23.14	21.14	0.1300
77	30	40	635332	3529.98	DFT-s-OFDM 16 QAM	50@25	22.46	20.46	0.1112
77	30	40	635332	3529.98	DFT-s-OFDM 16 QAM	1@1	22.63	20.63	0.1156
77	30	40	635332	3529.98	DFT-s-OFDM 16 QAM	1@104	22.31	20.31	0.1074
77	30	40	635332	3529.98	DFT-s-OFDM 64 QAM	50@25	20.98	18.98	0.0791
77	30	40	635332	3529.98	DFT-s-OFDM 64 QAM	1@1	20.96	18.96	0.0787
77	30	40	635332	3529.98	DFT-s-OFDM 64 QAM	1@104	20.6	18.6	0.0724
77	30	40	635332	3529.98	DFT-s-OFDM 256 QAM	50@25	19.06	17.06	0.0508
77	30	40	635332	3529.98	DFT-s-OFDM 256 QAM	1@1	19.07	17.07	0.0509
77	30	40	635332	3529.98	DFT-s-OFDM 256 QAM	1@104	19.15	17.15	0.0519
77	30	40	635332	3529.98	CP-OFDM QPSK	53@26	22.01	20.01	0.1002
77	30	40	635332	3529.98	CP-OFDM QPSK	1@1	21.94	19.94	0.0986
77	30	40	635332	3529.98	CP-OFDM QPSK	1@104	21.72	19.72	0.0938
77	30	50	631668	3475.02	DFT-s-OFDM PI/2 BPSK	64@32	23.49	21.49	0.1409

77	30	50	631668	3475.02	DFT-s-OFDM PI/2 BPSK	1@1	23.37	21.37	0.1371
77	30	50	631668	3475.02	DFT-s-OFDM PI/2 BPSK	1@131	23.38	21.38	0.1374
77	30	50	631668	3475.02	DFT-s-OFDM QPSK	64@32	23.46	21.46	0.1400
77	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@1	23.38	21.38	0.1374
77	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@131	23.32	21.32	0.1355
77	30	50	631668	3475.02	DFT-s-OFDM 16 QAM	64@32	22.46	20.46	0.1112
77	30	50	631668	3475.02	DFT-s-OFDM 16 QAM	1@1	22.48	20.48	0.1117
77	30	50	631668	3475.02	DFT-s-OFDM 16 QAM	1@131	22.6	20.6	0.1148
77	30	50	631668	3475.02	DFT-s-OFDM 64 QAM	64@32	21.02	19.02	0.0798
77	30	50	631668	3475.02	DFT-s-OFDM 64 QAM	1@1	20.85	18.85	0.0767
77	30	50	631668	3475.02	DFT-s-OFDM 64 QAM	1@131	20.85	18.85	0.0767
77	30	50	631668	3475.02	DFT-s-OFDM 256 QAM	64@32	19	17	0.0501
77	30	50	631668	3475.02	DFT-s-OFDM 256 QAM	1@1	18.93	16.93	0.0493
77	30	50	631668	3475.02	DFT-s-OFDM 256 QAM	1@131	18.83	16.83	0.0482
77	30	50	631668	3475.02	CP-OFDM QPSK	67@33	21.98	19.98	0.0995
77	30	50	631668	3475.02	CP-OFDM QPSK	1@1	22.07	20.07	0.1016
77	30	50	631668	3475.02	CP-OFDM QPSK	1@131	21.99	19.99	0.0998
77	30	50	633334	3500.01	DFT-s-OFDM PI/2 BPSK	64@32	23.48	21.48	0.1406
77	30	50	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	23.34	21.34	0.1361
77	30	50	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@131	23.22	21.22	0.1324
77	30	50	633334	3500.01	DFT-s-OFDM QPSK	64@32	23.37	21.37	0.1371
77	30	50	633334	3500.01	DFT-s-OFDM QPSK	1@1	23.32	21.32	0.1355
77	30	50	633334	3500.01	DFT-s-OFDM QPSK	1@131	23.14	21.14	0.1300
77	30	50	633334	3500.01	DFT-s-OFDM 16 QAM	64@32	22.47	20.47	0.1114

77	30	50	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	22.53	20.53	0.1130
77	30	50	633334	3500.01	DFT-s-OFDM 16 QAM	1@131	22.43	20.43	0.1104
77	30	50	633334	3500.01	DFT-s-OFDM 64 QAM	64@32	20.93	18.93	0.0782
77	30	50	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	20.95	18.95	0.0785
77	30	50	633334	3500.01	DFT-s-OFDM 64 QAM	1@131	20.56	18.56	0.0718
77	30	50	633334	3500.01	DFT-s-OFDM 256 QAM	64@32	18.98	16.98	0.0499
77	30	50	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	19.03	17.03	0.0505
77	30	50	633334	3500.01	DFT-s-OFDM 256 QAM	1@131	18.65	16.65	0.0462
77	30	50	633334	3500.01	CP-OFDM QPSK	67@33	21.99	19.99	0.0998
77	30	50	633334	3500.01	CP-OFDM QPSK	1@1	21.95	19.95	0.0989
77	30	50	633334	3500.01	CP-OFDM QPSK	1@131	21.89	19.89	0.0975
77	30	50	635000	3525	DFT-s-OFDM PI/2 BPSK	64@32	23.23	21.23	0.1327
77	30	50	635000	3525	DFT-s-OFDM PI/2 BPSK	1@1	23.26	21.26	0.1337
77	30	50	635000	3525	DFT-s-OFDM PI/2 BPSK	1@131	23.12	21.12	0.1294
77	30	50	635000	3525	DFT-s-OFDM QPSK	64@32	23.23	21.23	0.1327
77	30	50	635000	3525	DFT-s-OFDM QPSK	1@1	23.22	21.22	0.1324
77	30	50	635000	3525	DFT-s-OFDM QPSK	1@131	23.17	21.17	0.1309
77	30	50	635000	3525	DFT-s-OFDM 16 QAM	64@32	22.22	20.22	0.1052
77	30	50	635000	3525	DFT-s-OFDM 16 QAM	1@1	22.34	20.34	0.1081
77	30	50	635000	3525	DFT-s-OFDM 16 QAM	1@131	22.26	20.26	0.1062
77	30	50	635000	3525	DFT-s-OFDM 64 QAM	64@32	20.69	18.69	0.0740
77	30	50	635000	3525	DFT-s-OFDM 64 QAM	1@1	20.63	18.63	0.0729
77	30	50	635000	3525	DFT-s-OFDM 64 QAM	1@131	20.57	18.57	0.0719
77	30	50	635000	3525	DFT-s-OFDM 256 QAM	64@32	18.76	16.76	0.0474

77	30	50	635000	3525	DFT-s-OFDM 256 QAM	1@1	18.72	16.72	0.0470
77	30	50	635000	3525	DFT-s-OFDM 256 QAM	1@131	18.57	16.57	0.0454
77	30	50	635000	3525	CP-OFDM QPSK	67@33	21.66	19.66	0.0925
77	30	50	635000	3525	CP-OFDM QPSK	1@1	21.96	19.96	0.0991
77	30	50	635000	3525	CP-OFDM QPSK	1@131	21.8	19.8	0.0955
77	30	60	632000	3480	DFT-s-OFDM PI/2 BPSK	81@40	23.47	21.47	0.1403
77	30	60	632000	3480	DFT-s-OFDM PI/2 BPSK	1@1	23.25	21.25	0.1334
77	30	60	632000	3480	DFT-s-OFDM PI/2 BPSK	1@160	23.29	21.29	0.1346
77	30	60	632000	3480	DFT-s-OFDM QPSK	81@40	23.54	21.54	0.1426
77	30	60	632000	3480	DFT-s-OFDM QPSK	1@1	23.3	21.3	0.1349
77	30	60	632000	3480	DFT-s-OFDM QPSK	1@160	23.39	21.39	0.1377
77	30	60	632000	3480	DFT-s-OFDM 16 QAM	81@40	22.53	20.53	0.1130
77	30	60	632000	3480	DFT-s-OFDM 16 QAM	1@1	22.45	20.45	0.1109
77	30	60	632000	3480	DFT-s-OFDM 16 QAM	1@160	22.49	20.49	0.1119
77	30	60	632000	3480	DFT-s-OFDM 64 QAM	81@40	21.01	19.01	0.0796
77	30	60	632000	3480	DFT-s-OFDM 64 QAM	1@1	20.77	18.77	0.0753
77	30	60	632000	3480	DFT-s-OFDM 64 QAM	1@160	20.88	18.88	0.0773
77	30	60	632000	3480	DFT-s-OFDM 256 QAM	81@40	18.91	16.91	0.0491
77	30	60	632000	3480	DFT-s-OFDM 256 QAM	1@1	18.78	16.78	0.0476
77	30	60	632000	3480	DFT-s-OFDM 256 QAM	1@160	19.05	17.05	0.0507
77	30	60	632000	3480	CP-OFDM QPSK	81@40	22.01	20.01	0.1002
77	30	60	632000	3480	CP-OFDM QPSK	1@1	22.04	20.04	0.1009
77	30	60	632000	3480	CP-OFDM QPSK	1@160	21.9	19.9	0.0977
77	30	60	633334	3500.01	DFT-s-OFDM PI/2 BPSK	81@40	23.41	21.41	0.1384

77	30	60	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	23.28	21.28	0.1343
77	30	60	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@160	23.2	21.2	0.1318
77	30	60	633334	3500.01	DFT-s-OFDM QPSK	81@40	23.39	21.39	0.1377
77	30	60	633334	3500.01	DFT-s-OFDM QPSK	1@1	23.42	21.42	0.1387
77	30	60	633334	3500.01	DFT-s-OFDM QPSK	1@160	23.26	21.26	0.1337
77	30	60	633334	3500.01	DFT-s-OFDM 16 QAM	81@40	22.46	20.46	0.1112
77	30	60	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	22.49	20.49	0.1119
77	30	60	633334	3500.01	DFT-s-OFDM 16 QAM	1@160	22.43	20.43	0.1104
77	30	60	633334	3500.01	DFT-s-OFDM 64 QAM	81@40	20.93	18.93	0.0782
77	30	60	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	20.95	18.95	0.0785
77	30	60	633334	3500.01	DFT-s-OFDM 64 QAM	1@160	20.79	18.79	0.0757
77	30	60	633334	3500.01	DFT-s-OFDM 256 QAM	81@40	19.17	17.17	0.0521
77	30	60	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	18.82	16.82	0.0481
77	30	60	633334	3500.01	DFT-s-OFDM 256 QAM	1@160	18.81	16.81	0.0480
77	30	60	633334	3500.01	CP-OFDM QPSK	81@40	21.95	19.95	0.0989
77	30	60	633334	3500.01	CP-OFDM QPSK	1@1	21.9	19.9	0.0977
77	30	60	633334	3500.01	CP-OFDM QPSK	1@160	21.75	19.75	0.0944
77	30	60	634666	3519.99	DFT-s-OFDM PI/2 BPSK	81@40	23.14	21.14	0.1300
77	30	60	634666	3519.99	DFT-s-OFDM PI/2 BPSK	1@1	23.4	21.4	0.1380
77	30	60	634666	3519.99	DFT-s-OFDM PI/2 BPSK	1@160	23.13	21.13	0.1297
77	30	60	634666	3519.99	DFT-s-OFDM QPSK	81@40	23.2	21.2	0.1318
77	30	60	634666	3519.99	DFT-s-OFDM QPSK	1@1	23.49	21.49	0.1409
77	30	60	634666	3519.99	DFT-s-OFDM QPSK	1@160	23.17	21.17	0.1309
77	30	60	634666	3519.99	DFT-s-OFDM 16 QAM	81@40	22.28	20.28	0.1067

77	30	60	634666	3519.99	DFT-s-OFDM 16 QAM	1@1	22.58	20.58	0.1143
77	30	60	634666	3519.99	DFT-s-OFDM 16 QAM	1@160	22.29	20.29	0.1069
77	30	60	634666	3519.99	DFT-s-OFDM 64 QAM	81@40	20.76	18.76	0.0752
77	30	60	634666	3519.99	DFT-s-OFDM 64 QAM	1@1	21.04	19.04	0.0802
77	30	60	634666	3519.99	DFT-s-OFDM 64 QAM	1@160	20.62	18.62	0.0728
77	30	60	634666	3519.99	DFT-s-OFDM 256 QAM	81@40	18.73	16.73	0.0471
77	30	60	634666	3519.99	DFT-s-OFDM 256 QAM	1@1	18.91	16.91	0.0491
77	30	60	634666	3519.99	DFT-s-OFDM 256 QAM	1@160	18.69	16.69	0.0467
77	30	60	634666	3519.99	CP-OFDM QPSK	81@40	21.71	19.71	0.0935
77	30	60	634666	3519.99	CP-OFDM QPSK	1@1	21.97	19.97	0.0993
77	30	60	634666	3519.99	CP-OFDM QPSK	1@160	21.74	19.74	0.0942
77	30	70	632334	3485.01	DFT-s-OFDM PI/2 BPSK	90@45	23.31	21.31	0.1352
77	30	70	632334	3485.01	DFT-s-OFDM PI/2 BPSK	1@1	23.09	21.09	0.1285
77	30	70	632334	3485.01	DFT-s-OFDM PI/2 BPSK	1@187	23.04	21.04	0.1271
77	30	70	632334	3485.01	DFT-s-OFDM QPSK	90@45	23.28	21.28	0.1343
77	30	70	632334	3485.01	DFT-s-OFDM QPSK	1@1	23.06	21.06	0.1276
77	30	70	632334	3485.01	DFT-s-OFDM QPSK	1@187	22.95	20.95	0.1245
77	30	70	632334	3485.01	DFT-s-OFDM 16 QAM	90@45	22.24	20.24	0.1057
77	30	70	632334	3485.01	DFT-s-OFDM 16 QAM	1@1	22.24	20.24	0.1057
77	30	70	632334	3485.01	DFT-s-OFDM 16 QAM	1@187	22.15	20.15	0.1035
77	30	70	632334	3485.01	DFT-s-OFDM 64 QAM	90@45	20.86	18.86	0.0769
77	30	70	632334	3485.01	DFT-s-OFDM 64 QAM	1@1	20.46	18.46	0.0701
77	30	70	632334	3485.01	DFT-s-OFDM 64 QAM	1@187	20.44	18.44	0.0698
77	30	70	632334	3485.01	DFT-s-OFDM 256 QAM	90@45	18.8	16.8	0.0479

77	30	70	632334	3485.01	DFT-s-OFDM 256 QAM	1@1	18.75	16.75	0.0473
77	30	70	632334	3485.01	DFT-s-OFDM 256 QAM	1@187	18.64	16.64	0.0461
77	30	70	632334	3485.01	CP-OFDM QPSK	95@47	21.76	19.76	0.0946
77	30	70	632334	3485.01	CP-OFDM QPSK	1@1	21.83	19.83	0.0962
77	30	70	632334	3485.01	CP-OFDM QPSK	1@187	21.84	19.84	0.0964
77	30	70	633334	3500.01	DFT-s-OFDM PI/2 BPSK	90@45	23.28	21.28	0.1343
77	30	70	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	23.16	21.16	0.1306
77	30	70	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@187	23.05	21.05	0.1274
77	30	70	633334	3500.01	DFT-s-OFDM QPSK	90@45	23.27	21.27	0.1340
77	30	70	633334	3500.01	DFT-s-OFDM QPSK	1@1	23.21	21.21	0.1321
77	30	70	633334	3500.01	DFT-s-OFDM QPSK	1@187	23.09	21.09	0.1285
77	30	70	633334	3500.01	DFT-s-OFDM 16 QAM	90@45	22.3	20.3	0.1072
77	30	70	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	22.52	20.52	0.1127
77	30	70	633334	3500.01	DFT-s-OFDM 16 QAM	1@187	22.2	20.2	0.1047
77	30	70	633334	3500.01	DFT-s-OFDM 64 QAM	90@45	20.81	18.81	0.0760
77	30	70	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	20.68	18.68	0.0738
77	30	70	633334	3500.01	DFT-s-OFDM 64 QAM	1@187	20.66	18.66	0.0735
77	30	70	633334	3500.01	DFT-s-OFDM 256 QAM	90@45	18.88	16.88	0.0488
77	30	70	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	18.77	16.77	0.0475
77	30	70	633334	3500.01	DFT-s-OFDM 256 QAM	1@187	18.78	16.78	0.0476
77	30	70	633334	3500.01	CP-OFDM QPSK	95@47	21.77	19.77	0.0948
77	30	70	633334	3500.01	CP-OFDM QPSK	1@1	21.93	19.93	0.0984
77	30	70	633334	3500.01	CP-OFDM QPSK	1@187	21.92	19.92	0.0982
77	30	70	634332	3514.98	DFT-s-OFDM PI/2 BPSK	90@45	23.19	21.19	0.1315

77	30	70	634332	3514.98	DFT-s-OFDM PI/2 BPSK	1@1	23.22	21.22	0.1324
77	30	70	634332	3514.98	DFT-s-OFDM PI/2 BPSK	1@187	22.97	20.97	0.1250
77	30	70	634332	3514.98	DFT-s-OFDM QPSK	90@45	23.14	21.14	0.1300
77	30	70	634332	3514.98	DFT-s-OFDM QPSK	1@1	23.29	21.29	0.1346
77	30	70	634332	3514.98	DFT-s-OFDM QPSK	1@187	23.05	21.05	0.1274
77	30	70	634332	3514.98	DFT-s-OFDM 16 QAM	90@45	22.19	20.19	0.1045
77	30	70	634332	3514.98	DFT-s-OFDM 16 QAM	1@1	22.31	20.31	0.1074
77	30	70	634332	3514.98	DFT-s-OFDM 16 QAM	1@187	22.15	20.15	0.1035
77	30	70	634332	3514.98	DFT-s-OFDM 64 QAM	90@45	20.68	18.68	0.0738
77	30	70	634332	3514.98	DFT-s-OFDM 64 QAM	1@1	20.73	18.73	0.0746
77	30	70	634332	3514.98	DFT-s-OFDM 64 QAM	1@187	20.58	18.58	0.0721
77	30	70	634332	3514.98	DFT-s-OFDM 256 QAM	90@45	18.81	16.81	0.0480
77	30	70	634332	3514.98	DFT-s-OFDM 256 QAM	1@1	18.73	16.73	0.0471
77	30	70	634332	3514.98	DFT-s-OFDM 256 QAM	1@187	18.69	16.69	0.0467
77	30	70	634332	3514.98	CP-OFDM QPSK	95@47	21.67	19.67	0.0927
77	30	70	634332	3514.98	CP-OFDM QPSK	1@1	22	20	0.1000
77	30	70	634332	3514.98	CP-OFDM QPSK	1@187	21.66	19.66	0.0925
77	30	80	632668	3490.02	DFT-s-OFDM PI/2 BPSK	108@54	23.28	21.28	0.1343
77	30	80	632668	3490.02	DFT-s-OFDM PI/2 BPSK	1@1	23.06	21.06	0.1276
77	30	80	632668	3490.02	DFT-s-OFDM PI/2 BPSK	1@215	22.96	20.96	0.1247
77	30	80	632668	3490.02	DFT-s-OFDM QPSK	108@54	23.21	21.21	0.1321
77	30	80	632668	3490.02	DFT-s-OFDM QPSK	1@1	23.16	21.16	0.1306
77	30	80	632668	3490.02	DFT-s-OFDM QPSK	1@215	22.9	20.9	0.1230
77	30	80	632668	3490.02	DFT-s-OFDM 16 QAM	108@54	22.23	20.23	0.1054

77	30	80	632668	3490.02	DFT-s-OFDM 16 QAM	1@1	22.29	20.29	0.1069
77	30	80	632668	3490.02	DFT-s-OFDM 16 QAM	1@215	22.07	20.07	0.1016
77	30	80	632668	3490.02	DFT-s-OFDM 64 QAM	108@54	20.71	18.71	0.0743
77	30	80	632668	3490.02	DFT-s-OFDM 64 QAM	1@1	20.52	18.52	0.0711
77	30	80	632668	3490.02	DFT-s-OFDM 64 QAM	1@215	20.4	18.4	0.0692
77	30	80	632668	3490.02	DFT-s-OFDM 256 QAM	108@54	18.75	16.75	0.0473
77	30	80	632668	3490.02	DFT-s-OFDM 256 QAM	1@1	18.6	16.6	0.0457
77	30	80	632668	3490.02	DFT-s-OFDM 256 QAM	1@215	18.62	16.62	0.0459
77	30	80	632668	3490.02	CP-OFDM QPSK	109@54	21.73	19.73	0.0940
77	30	80	632668	3490.02	CP-OFDM QPSK	1@1	21.59	19.59	0.0910
77	30	80	632668	3490.02	CP-OFDM QPSK	1@215	21.58	19.58	0.0908
77	30	80	633334	3500.01	DFT-s-OFDM PI/2 BPSK	108@54	23.36	21.36	0.1368
77	30	80	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	23.22	21.22	0.1324
77	30	80	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@215	23.09	21.09	0.1285
77	30	80	633334	3500.01	DFT-s-OFDM QPSK	108@54	23.32	21.32	0.1355
77	30	80	633334	3500.01	DFT-s-OFDM QPSK	1@1	23.25	21.25	0.1334
77	30	80	633334	3500.01	DFT-s-OFDM QPSK	1@215	23.05	21.05	0.1274
77	30	80	633334	3500.01	DFT-s-OFDM 16 QAM	108@54	22.32	20.32	0.1076
77	30	80	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	22.3	20.3	0.1072
77	30	80	633334	3500.01	DFT-s-OFDM 16 QAM	1@215	22.15	20.15	0.1035
77	30	80	633334	3500.01	DFT-s-OFDM 64 QAM	108@54	20.84	18.84	0.0766
77	30	80	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	20.65	18.65	0.0733
77	30	80	633334	3500.01	DFT-s-OFDM 64 QAM	1@215	20.59	18.59	0.0723
77	30	80	633334	3500.01	DFT-s-OFDM 256 QAM	108@54	18.96	16.96	0.0497

77	30	80	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	19.07	17.07	0.0509
77	30	80	633334	3500.01	DFT-s-OFDM 256 QAM	1@215	19	17	0.0501
77	30	80	633334	3500.01	CP-OFDM QPSK	109@54	21.83	19.83	0.0962
77	30	80	633334	3500.01	CP-OFDM QPSK	1@1	21.78	19.78	0.0951
77	30	80	633334	3500.01	CP-OFDM QPSK	1@215	21.63	19.63	0.0918
77	30	80	634000	3510	DFT-s-OFDM PI/2 BPSK	108@54	23.14	21.14	0.1300
77	30	80	634000	3510	DFT-s-OFDM PI/2 BPSK	1@1	23.19	21.19	0.1315
77	30	80	634000	3510	DFT-s-OFDM PI/2 BPSK	1@215	22.93	20.93	0.1239
77	30	80	634000	3510	DFT-s-OFDM QPSK	108@54	23.18	21.18	0.1312
77	30	80	634000	3510	DFT-s-OFDM QPSK	1@1	23.28	21.28	0.1343
77	30	80	634000	3510	DFT-s-OFDM QPSK	1@215	22.9	20.9	0.1230
77	30	80	634000	3510	DFT-s-OFDM 16 QAM	108@54	22.27	20.27	0.1064
77	30	80	634000	3510	DFT-s-OFDM 16 QAM	1@1	22.44	20.44	0.1107
77	30	80	634000	3510	DFT-s-OFDM 16 QAM	1@215	22.14	20.14	0.1033
77	30	80	634000	3510	DFT-s-OFDM 64 QAM	108@54	20.71	18.71	0.0743
77	30	80	634000	3510	DFT-s-OFDM 64 QAM	1@1	20.69	18.69	0.0740
77	30	80	634000	3510	DFT-s-OFDM 64 QAM	1@215	20.41	18.41	0.0693
77	30	80	634000	3510	DFT-s-OFDM 256 QAM	108@54	18.83	16.83	0.0482
77	30	80	634000	3510	DFT-s-OFDM 256 QAM	1@1	18.89	16.89	0.0489
77	30	80	634000	3510	DFT-s-OFDM 256 QAM	1@215	18.62	16.62	0.0459
77	30	80	634000	3510	CP-OFDM QPSK	109@54	21.64	19.64	0.0920
77	30	80	634000	3510	CP-OFDM QPSK	1@1	21.76	19.76	0.0946
77	30	80	634000	3510	CP-OFDM QPSK	1@215	21.57	19.57	0.0906
77	30	90	633000	3495	DFT-s-OFDM PI/2 BPSK	120@60	23.23	21.23	0.1327

77	30	90	633000	3495	DFT-s-OFDM PI/2 BPSK	1@1	23.22	21.22	0.1324
77	30	90	633000	3495	DFT-s-OFDM PI/2 BPSK	1@243	22.98	20.98	0.1253
77	30	90	633000	3495	DFT-s-OFDM QPSK	120@60	23.25	21.25	0.1334
77	30	90	633000	3495	DFT-s-OFDM QPSK	1@1	23.27	21.27	0.1340
77	30	90	633000	3495	DFT-s-OFDM QPSK	1@243	22.96	20.96	0.1247
77	30	90	633000	3495	DFT-s-OFDM 16 QAM	120@60	22.29	20.29	0.1069
77	30	90	633000	3495	DFT-s-OFDM 16 QAM	1@1	22.53	20.53	0.1130
77	30	90	633000	3495	DFT-s-OFDM 16 QAM	1@243	22.06	20.06	0.1014
77	30	90	633000	3495	DFT-s-OFDM 64 QAM	120@60	20.74	18.74	0.0748
77	30	90	633000	3495	DFT-s-OFDM 64 QAM	1@1	20.69	18.69	0.0740
77	30	90	633000	3495	DFT-s-OFDM 64 QAM	1@243	20.55	18.55	0.0716
77	30	90	633000	3495	DFT-s-OFDM 256 QAM	120@60	18.86	16.86	0.0485
77	30	90	633000	3495	DFT-s-OFDM 256 QAM	1@1	18.82	16.82	0.0481
77	30	90	633000	3495	DFT-s-OFDM 256 QAM	1@243	18.8	16.8	0.0479
77	30	90	633000	3495	CP-OFDM QPSK	123@61	21.79	19.79	0.0953
77	30	90	633000	3495	CP-OFDM QPSK	1@1	21.74	19.74	0.0942
77	30	90	633000	3495	CP-OFDM QPSK	1@243	21.49	19.49	0.0889
77	30	90	633334	3500.01	DFT-s-OFDM PI/2 BPSK	120@60	23.3	21.3	0.1349
77	30	90	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	23.21	21.21	0.1321
77	30	90	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@243	23.09	21.09	0.1285
77	30	90	633334	3500.01	DFT-s-OFDM QPSK	120@60	23.25	21.25	0.1334
77	30	90	633334	3500.01	DFT-s-OFDM QPSK	1@1	23.26	21.26	0.1337
77	30	90	633334	3500.01	DFT-s-OFDM QPSK	1@243	22.94	20.94	0.1242
77	30	90	633334	3500.01	DFT-s-OFDM 16 QAM	120@60	22.31	20.31	0.1074

77	30	90	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	22.43	20.43	0.1104
77	30	90	633334	3500.01	DFT-s-OFDM 16 QAM	1@243	22.28	20.28	0.1067
77	30	90	633334	3500.01	DFT-s-OFDM 64 QAM	120@60	20.78	18.78	0.0755
77	30	90	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	20.72	18.72	0.0745
77	30	90	633334	3500.01	DFT-s-OFDM 64 QAM	1@243	20.5	18.5	0.0708
77	30	90	633334	3500.01	DFT-s-OFDM 256 QAM	120@60	19.18	17.18	0.0522
77	30	90	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	18.79	16.79	0.0478
77	30	90	633334	3500.01	DFT-s-OFDM 256 QAM	1@243	18.84	16.84	0.0483
77	30	90	633334	3500.01	CP-OFDM QPSK	123@61	21.82	19.82	0.0959
77	30	90	633334	3500.01	CP-OFDM QPSK	1@1	22.04	20.04	0.1009
77	30	90	633334	3500.01	CP-OFDM QPSK	1@243	21.64	19.64	0.0920
77	30	90	633666	3504.99	DFT-s-OFDM PI/2 BPSK	120@60	23.31	21.31	0.1352
77	30	90	633666	3504.99	DFT-s-OFDM PI/2 BPSK	1@1	23.23	21.23	0.1327
77	30	90	633666	3504.99	DFT-s-OFDM PI/2 BPSK	1@243	23	21	0.1259
77	30	90	633666	3504.99	DFT-s-OFDM QPSK	120@60	23.18	21.18	0.1312
77	30	90	633666	3504.99	DFT-s-OFDM QPSK	1@1	23.31	21.31	0.1352
77	30	90	633666	3504.99	DFT-s-OFDM QPSK	1@243	22.94	20.94	0.1242
77	30	90	633666	3504.99	DFT-s-OFDM 16 QAM	120@60	22.23	20.23	0.1054
77	30	90	633666	3504.99	DFT-s-OFDM 16 QAM	1@1	22.44	20.44	0.1107
77	30	90	633666	3504.99	DFT-s-OFDM 16 QAM	1@243	22.17	20.17	0.1040
77	30	90	633666	3504.99	DFT-s-OFDM 64 QAM	120@60	20.69	18.69	0.0740
77	30	90	633666	3504.99	DFT-s-OFDM 64 QAM	1@1	20.77	18.77	0.0753
77	30	90	633666	3504.99	DFT-s-OFDM 64 QAM	1@243	20.53	18.53	0.0713
77	30	90	633666	3504.99	DFT-s-OFDM 256 QAM	120@60	18.91	16.91	0.0491

77	30	90	633666	3504.99	DFT-s-OFDM 256 QAM	1@1	18.88	16.88	0.0488
77	30	90	633666	3504.99	DFT-s-OFDM 256 QAM	1@243	18.88	16.88	0.0488
77	30	90	633666	3504.99	CP-OFDM QPSK	123@61	21.76	19.76	0.0946
77	30	90	633666	3504.99	CP-OFDM QPSK	1@1	21.75	19.75	0.0944
77	30	90	633666	3504.99	CP-OFDM QPSK	1@243	21.48	19.48	0.0887
77	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	135@67	23.33	21.33	0.1358
77	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	23.25	21.25	0.1334
77	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@271	22.97	20.97	0.1250
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	135@67	23.88	21.88	0.1542
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@1	23.27	21.27	0.1340
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@271	22.92	20.92	0.1236
77	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	135@67	22.28	20.28	0.1067
77	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	22.43	20.43	0.1104
77	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	1@271	22.13	20.13	0.1030
77	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	135@67	20.8	18.8	0.0759
77	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	20.72	18.72	0.0745
77	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	1@271	20.43	18.43	0.0697
77	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	135@67	18.94	16.94	0.0494
77	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	18.84	16.84	0.0483
77	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	1@271	18.62	16.62	0.0459
77	30	100	633334	3500.01	CP-OFDM QPSK	137@68	21.78	19.78	0.0951
77	30	100	633334	3500.01	CP-OFDM QPSK	1@1	21.82	19.82	0.0959
77	30	100	633334	3500.01	CP-OFDM QPSK	1@271	21.55	19.55	0.0902

FR1 N78

Transmitter Conducted Output Power And ERP/EIRP, ($G_T - L_C$)=-2dB

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	EIRP (dBm)	EIRP (W)
78	30	20	630668	3460.02	DFT-s-OFDM PI/2 BPSK	25@12	26.35	24.35	0.2723
78	30	20	630668	3460.02	DFT-s-OFDM PI/2 BPSK	1@1	26.2	24.2	0.2630
78	30	20	630668	3460.02	DFT-s-OFDM PI/2 BPSK	1@49	26.4	24.4	0.2754
78	30	20	630668	3460.02	DFT-s-OFDM QPSK	25@12	26.24	24.24	0.2655
78	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@1	26.39	24.39	0.2748
78	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@49	26.47	24.47	0.2799
78	30	20	630668	3460.02	DFT-s-OFDM 16 QAM	25@12	25.32	23.32	0.2148
78	30	20	630668	3460.02	DFT-s-OFDM 16 QAM	1@1	25.35	23.35	0.2163
78	30	20	630668	3460.02	DFT-s-OFDM 16 QAM	1@49	25.42	23.42	0.2198
78	30	20	630668	3460.02	DFT-s-OFDM 64 QAM	25@12	23.84	21.84	0.1528
78	30	20	630668	3460.02	DFT-s-OFDM 64 QAM	1@1	24.08	22.08	0.1614
78	30	20	630668	3460.02	DFT-s-OFDM 64 QAM	1@49	24.17	22.17	0.1648
78	30	20	630668	3460.02	DFT-s-OFDM 256 QAM	25@12	21.84	19.84	0.0964
78	30	20	630668	3460.02	DFT-s-OFDM 256 QAM	1@1	21.63	19.63	0.0918
78	30	20	630668	3460.02	DFT-s-OFDM 256 QAM	1@49	21.8	19.8	0.0955
78	30	20	630668	3460.02	CP-OFDM QPSK	25@121	23.31	21.31	0.1352
78	30	20	630668	3460.02	CP-OFDM QPSK	1@1	25	23	0.1995
78	30	20	630668	3460.02	CP-OFDM QPSK	1@49	24.99	22.99	0.1991
78	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	25@12	26.48	24.48	0.2805

78	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	26.58	24.58	0.2871
78	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@49	26.24	24.24	0.2655
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	25@12	26.31	24.31	0.2698
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@1	26.55	24.55	0.2851
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@49	26.5	24.5	0.2818
78	30	20	633334	3500.01	DFT-s-OFDM 16 QAM	25@12	25.43	23.43	0.2203
78	30	20	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	25.56	23.56	0.2270
78	30	20	633334	3500.01	DFT-s-OFDM 16 QAM	1@49	25.55	23.55	0.2265
78	30	20	633334	3500.01	DFT-s-OFDM 64 QAM	25@12	24	22	0.1585
78	30	20	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	24.3	22.3	0.1698
78	30	20	633334	3500.01	DFT-s-OFDM 64 QAM	1@49	24.31	22.31	0.1702
78	30	20	633334	3500.01	DFT-s-OFDM 256 QAM	25@12	21.9	19.9	0.0977
78	30	20	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	22.04	20.04	0.1009
78	30	20	633334	3500.01	DFT-s-OFDM 256 QAM	1@49	21.84	19.84	0.0964
78	30	20	633334	3500.01	CP-OFDM QPSK	25@121	23.44	21.44	0.1393
78	30	20	633334	3500.01	CP-OFDM QPSK	1@1	25.08	23.08	0.2032
78	30	20	633334	3500.01	CP-OFDM QPSK	1@49	24.88	22.88	0.1941
78	30	20	636000	3540	DFT-s-OFDM PI/2 BPSK	25@12	26.18	24.18	0.2618
78	30	20	636000	3540	DFT-s-OFDM PI/2 BPSK	1@1	26.17	24.17	0.2612
78	30	20	636000	3540	DFT-s-OFDM PI/2 BPSK	1@49	26.31	24.31	0.2698
78	30	20	636000	3540	DFT-s-OFDM QPSK	25@12	26.26	24.26	0.2667
78	30	20	636000	3540	DFT-s-OFDM QPSK	1@1	26.12	24.12	0.2582
78	30	20	636000	3540	DFT-s-OFDM QPSK	1@49	26.33	24.33	0.2710
78	30	20	636000	3540	DFT-s-OFDM 16 QAM	25@12	25.45	23.45	0.2213

78	30	20	636000	3540	DFT-s-OFDM 16 QAM	1@1	25.45	23.45	0.2213
78	30	20	636000	3540	DFT-s-OFDM 16 QAM	1@49	25.41	23.41	0.2193
78	30	20	636000	3540	DFT-s-OFDM 64 QAM	25@12	23.72	21.72	0.1486
78	30	20	636000	3540	DFT-s-OFDM 64 QAM	1@1	23.71	21.71	0.1483
78	30	20	636000	3540	DFT-s-OFDM 64 QAM	1@49	23.8	21.8	0.1514
78	30	20	636000	3540	DFT-s-OFDM 256 QAM	25@12	21.83	19.83	0.0962
78	30	20	636000	3540	DFT-s-OFDM 256 QAM	1@1	21.76	19.76	0.0946
78	30	20	636000	3540	DFT-s-OFDM 256 QAM	1@49	21.73	19.73	0.0940
78	30	20	636000	3540	CP-OFDM QPSK	25@121	23.24	21.24	0.1330
78	30	20	636000	3540	CP-OFDM QPSK	1@1	24.8	22.8	0.1905
78	30	20	636000	3540	CP-OFDM QPSK	1@49	24.8	22.8	0.1905
78	30	30	631000	3465	DFT-s-OFDM PI/2 BPSK	36@18	26.57	24.57	0.2864
78	30	30	631000	3465	DFT-s-OFDM PI/2 BPSK	1@1	26.46	24.46	0.2793
78	30	30	631000	3465	DFT-s-OFDM PI/2 BPSK	1@76	26.58	24.58	0.2871
78	30	30	631000	3465	DFT-s-OFDM QPSK	36@18	26.42	24.42	0.2767
78	30	30	631000	3465	DFT-s-OFDM QPSK	1@1	26.42	24.42	0.2767
78	30	30	631000	3465	DFT-s-OFDM QPSK	1@76	26.49	24.49	0.2812
78	30	30	631000	3465	DFT-s-OFDM 16 QAM	36@18	25.49	23.49	0.2234
78	30	30	631000	3465	DFT-s-OFDM 16 QAM	1@1	25.62	23.62	0.2301
78	30	30	631000	3465	DFT-s-OFDM 16 QAM	1@76	25.73	23.73	0.2360
78	30	30	631000	3465	DFT-s-OFDM 64 QAM	36@18	23.96	21.96	0.1570
78	30	30	631000	3465	DFT-s-OFDM 64 QAM	1@1	23.94	21.94	0.1563
78	30	30	631000	3465	DFT-s-OFDM 64 QAM	1@76	23.91	21.91	0.1552
78	30	30	631000	3465	DFT-s-OFDM 256 QAM	36@18	22.05	20.05	0.1012

78	30	30	631000	3465	DFT-s-OFDM 256 QAM	1@1	21.88	19.88	0.0973
78	30	30	631000	3465	DFT-s-OFDM 256 QAM	1@76	22.08	20.08	0.1019
78	30	30	631000	3465	CP-OFDM QPSK	39@19	24.97	22.97	0.1982
78	30	30	631000	3465	CP-OFDM QPSK	1@1	24.98	22.98	0.1986
78	30	30	631000	3465	CP-OFDM QPSK	1@76	25.07	23.07	0.2028
78	30	30	633334	3500.01	DFT-s-OFDM PI/2 BPSK	36@18	26.46	24.46	0.2793
78	30	30	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	26.72	24.72	0.2965
78	30	30	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@76	26.3	24.3	0.2692
78	30	30	633334	3500.01	DFT-s-OFDM QPSK	36@18	26.49	24.49	0.2812
78	30	30	633334	3500.01	DFT-s-OFDM QPSK	1@1	26.72	24.72	0.2965
78	30	30	633334	3500.01	DFT-s-OFDM QPSK	1@76	26.55	24.55	0.2851
78	30	30	633334	3500.01	DFT-s-OFDM 16 QAM	36@18	25.43	23.43	0.2203
78	30	30	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	25.74	23.74	0.2366
78	30	30	633334	3500.01	DFT-s-OFDM 16 QAM	1@76	25.55	23.55	0.2265
78	30	30	633334	3500.01	DFT-s-OFDM 64 QAM	36@18	24.09	22.09	0.1618
78	30	30	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	24.18	22.18	0.1652
78	30	30	633334	3500.01	DFT-s-OFDM 64 QAM	1@76	23.94	21.94	0.1563
78	30	30	633334	3500.01	DFT-s-OFDM 256 QAM	36@18	21.93	19.93	0.0984
78	30	30	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	22.11	20.11	0.1026
78	30	30	633334	3500.01	DFT-s-OFDM 256 QAM	1@76	21.81	19.81	0.0957
78	30	30	633334	3500.01	CP-OFDM QPSK	39@19	24.96	22.96	0.1977
78	30	30	633334	3500.01	CP-OFDM QPSK	1@1	25.19	23.19	0.2084
78	30	30	633334	3500.01	CP-OFDM QPSK	1@76	24.86	22.86	0.1932
78	30	30	635666	3534.99	DFT-s-OFDM PI/2 BPSK	36@18	26.44	24.44	0.2780

78	30	30	635666	3534.99	DFT-s-OFDM PI/2 BPSK	1@1	26.5	24.5	0.2818
78	30	30	635666	3534.99	DFT-s-OFDM PI/2 BPSK	1@76	26.28	24.28	0.2679
78	30	30	635666	3534.99	DFT-s-OFDM QPSK	36@18	26.23	24.23	0.2649
78	30	30	635666	3534.99	DFT-s-OFDM QPSK	1@1	26.58	24.58	0.2871
78	30	30	635666	3534.99	DFT-s-OFDM QPSK	1@76	26.53	24.53	0.2838
78	30	30	635666	3534.99	DFT-s-OFDM 16 QAM	36@18	25.31	23.31	0.2143
78	30	30	635666	3534.99	DFT-s-OFDM 16 QAM	1@1	25.52	23.52	0.2249
78	30	30	635666	3534.99	DFT-s-OFDM 16 QAM	1@76	25.45	23.45	0.2213
78	30	30	635666	3534.99	DFT-s-OFDM 64 QAM	36@18	23.85	21.85	0.1531
78	30	30	635666	3534.99	DFT-s-OFDM 64 QAM	1@1	23.96	21.96	0.1570
78	30	30	635666	3534.99	DFT-s-OFDM 64 QAM	1@76	23.96	21.96	0.1570
78	30	30	635666	3534.99	DFT-s-OFDM 256 QAM	36@18	21.77	19.77	0.0948
78	30	30	635666	3534.99	DFT-s-OFDM 256 QAM	1@1	21.9	19.9	0.0977
78	30	30	635666	3534.99	DFT-s-OFDM 256 QAM	1@76	21.8	19.8	0.0955
78	30	30	635666	3534.99	CP-OFDM QPSK	39@19	24.94	22.94	0.1968
78	30	30	635666	3534.99	CP-OFDM QPSK	1@1	24.95	22.95	0.1972
78	30	30	635666	3534.99	CP-OFDM QPSK	1@76	24.99	22.99	0.1991
78	30	40	631334	3470.01	DFT-s-OFDM PI/2 BPSK	50@25	26.58	24.58	0.2871
78	30	40	631334	3470.01	DFT-s-OFDM PI/2 BPSK	1@1	26.43	24.43	0.2773
78	30	40	631334	3470.01	DFT-s-OFDM PI/2 BPSK	1@104	26.74	24.74	0.2979
78	30	40	631334	3470.01	DFT-s-OFDM QPSK	50@25	26.42	24.42	0.2767
78	30	40	631334	3470.01	DFT-s-OFDM QPSK	1@1	26.42	24.42	0.2767
78	30	40	631334	3470.01	DFT-s-OFDM QPSK	1@104	26.63	24.63	0.2904
78	30	40	631334	3470.01	DFT-s-OFDM 16 QAM	50@25	25.44	23.44	0.2208

78	30	40	631334	3470.01	DFT-s-OFDM 16 QAM	1@1	25.8	23.8	0.2399
78	30	40	631334	3470.01	DFT-s-OFDM 16 QAM	1@104	25.91	23.91	0.2460
78	30	40	631334	3470.01	DFT-s-OFDM 64 QAM	50@25	24.05	22.05	0.1603
78	30	40	631334	3470.01	DFT-s-OFDM 64 QAM	1@1	24.22	22.22	0.1667
78	30	40	631334	3470.01	DFT-s-OFDM 64 QAM	1@104	24.24	22.24	0.1675
78	30	40	631334	3470.01	DFT-s-OFDM 256 QAM	50@25	22.03	20.03	0.1007
78	30	40	631334	3470.01	DFT-s-OFDM 256 QAM	1@1	22.06	20.06	0.1014
78	30	40	631334	3470.01	DFT-s-OFDM 256 QAM	1@104	22.18	20.18	0.1042
78	30	40	631334	3470.01	CP-OFDM QPSK	53@26	25.22	23.22	0.2099
78	30	40	631334	3470.01	CP-OFDM QPSK	1@1	25.26	23.26	0.2118
78	30	40	631334	3470.01	CP-OFDM QPSK	1@104	25.23	23.23	0.2104
78	30	40	633334	3500.01	DFT-s-OFDM PI/2 BPSK	50@25	26.42	24.42	0.2767
78	30	40	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	26.57	24.57	0.2864
78	30	40	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@104	26.39	24.39	0.2748
78	30	40	633334	3500.01	DFT-s-OFDM QPSK	50@25	26.45	24.45	0.2786
78	30	40	633334	3500.01	DFT-s-OFDM QPSK	1@1	26.64	24.64	0.2911
78	30	40	633334	3500.01	DFT-s-OFDM QPSK	1@104	26.51	24.51	0.2825
78	30	40	633334	3500.01	DFT-s-OFDM 16 QAM	50@25	25.71	23.71	0.2350
78	30	40	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	25.81	23.81	0.2404
78	30	40	633334	3500.01	DFT-s-OFDM 16 QAM	1@104	25.59	23.59	0.2286
78	30	40	633334	3500.01	DFT-s-OFDM 64 QAM	50@25	24.18	22.18	0.1652
78	30	40	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	24.18	22.18	0.1652
78	30	40	633334	3500.01	DFT-s-OFDM 64 QAM	1@104	23.97	21.97	0.1574
78	30	40	633334	3500.01	DFT-s-OFDM 256 QAM	50@25	22.02	20.02	0.1005

78	30	40	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	22.32	20.32	0.1076
78	30	40	633334	3500.01	DFT-s-OFDM 256 QAM	1@104	21.93	19.93	0.0984
78	30	40	633334	3500.01	CP-OFDM QPSK	53@26	24.95	22.95	0.1972
78	30	40	633334	3500.01	CP-OFDM QPSK	1@1	25.36	23.36	0.2168
78	30	40	633334	3500.01	CP-OFDM QPSK	1@104	25.05	23.05	0.2018
78	30	40	635332	3529.98	DFT-s-OFDM PI/2 BPSK	50@25	26.49	24.49	0.2812
78	30	40	635332	3529.98	DFT-s-OFDM PI/2 BPSK	1@1	26.55	24.55	0.2851
78	30	40	635332	3529.98	DFT-s-OFDM PI/2 BPSK	1@104	26.42	24.42	0.2767
78	30	40	635332	3529.98	DFT-s-OFDM QPSK	50@25	26.33	24.33	0.2710
78	30	40	635332	3529.98	DFT-s-OFDM QPSK	1@1	26.62	24.62	0.2897
78	30	40	635332	3529.98	DFT-s-OFDM QPSK	1@104	26.49	24.49	0.2812
78	30	40	635332	3529.98	DFT-s-OFDM 16 QAM	50@25	25.65	23.65	0.2317
78	30	40	635332	3529.98	DFT-s-OFDM 16 QAM	1@1	25.81	23.81	0.2404
78	30	40	635332	3529.98	DFT-s-OFDM 16 QAM	1@104	25.79	23.79	0.2393
78	30	40	635332	3529.98	DFT-s-OFDM 64 QAM	50@25	23.97	21.97	0.1574
78	30	40	635332	3529.98	DFT-s-OFDM 64 QAM	1@1	24.36	22.36	0.1722
78	30	40	635332	3529.98	DFT-s-OFDM 64 QAM	1@104	24.17	22.17	0.1648
78	30	40	635332	3529.98	DFT-s-OFDM 256 QAM	50@25	21.85	19.85	0.0966
78	30	40	635332	3529.98	DFT-s-OFDM 256 QAM	1@1	21.98	19.98	0.0995
78	30	40	635332	3529.98	DFT-s-OFDM 256 QAM	1@104	21.95	19.95	0.0989
78	30	40	635332	3529.98	CP-OFDM QPSK	53@26	25	23	0.1995
78	30	40	635332	3529.98	CP-OFDM QPSK	1@1	25.14	23.14	0.2061
78	30	40	635332	3529.98	CP-OFDM QPSK	1@104	25.09	23.09	0.2037
78	30	50	631668	3475.02	DFT-s-OFDM PI/2 BPSK	64@32	26.33	24.33	0.2710

78	30	50	631668	3475.02	DFT-s-OFDM PI/2 BPSK	1@1	26.22	24.22	0.2642
78	30	50	631668	3475.02	DFT-s-OFDM PI/2 BPSK	1@131	26.21	24.21	0.2636
78	30	50	631668	3475.02	DFT-s-OFDM QPSK	64@32	26.22	24.22	0.2642
78	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@1	26.16	24.16	0.2606
78	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@131	26.28	24.28	0.2679
78	30	50	631668	3475.02	DFT-s-OFDM 16 QAM	64@32	25.3	23.3	0.2138
78	30	50	631668	3475.02	DFT-s-OFDM 16 QAM	1@1	25.3	23.3	0.2138
78	30	50	631668	3475.02	DFT-s-OFDM 16 QAM	1@131	25.3	23.3	0.2138
78	30	50	631668	3475.02	DFT-s-OFDM 64 QAM	64@32	23.85	21.85	0.1531
78	30	50	631668	3475.02	DFT-s-OFDM 64 QAM	1@1	23.68	21.68	0.1472
78	30	50	631668	3475.02	DFT-s-OFDM 64 QAM	1@131	23.56	21.56	0.1432
78	30	50	631668	3475.02	DFT-s-OFDM 256 QAM	64@32	22.26	20.26	0.1062
78	30	50	631668	3475.02	DFT-s-OFDM 256 QAM	1@1	22.15	20.15	0.1035
78	30	50	631668	3475.02	DFT-s-OFDM 256 QAM	1@131	21.21	19.21	0.0834
78	30	50	631668	3475.02	CP-OFDM QPSK	67@33	24.77	22.77	0.1892
78	30	50	631668	3475.02	CP-OFDM QPSK	1@1	24.87	22.87	0.1936
78	30	50	631668	3475.02	CP-OFDM QPSK	1@131	24.9	22.9	0.1950
78	30	50	633334	3500.01	DFT-s-OFDM PI/2 BPSK	64@32	26.3	24.3	0.2692
78	30	50	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	26.2	24.2	0.2630
78	30	50	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@131	25.99	23.99	0.2506
78	30	50	633334	3500.01	DFT-s-OFDM QPSK	64@32	26.27	24.27	0.2673
78	30	50	633334	3500.01	DFT-s-OFDM QPSK	1@1	26.33	24.33	0.2710
78	30	50	633334	3500.01	DFT-s-OFDM QPSK	1@131	26.14	24.14	0.2594
78	30	50	633334	3500.01	DFT-s-OFDM 16 QAM	64@32	25.33	23.33	0.2153

78	30	50	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	25.3	23.3	0.2138
78	30	50	633334	3500.01	DFT-s-OFDM 16 QAM	1@131	25.24	23.24	0.2109
78	30	50	633334	3500.01	DFT-s-OFDM 64 QAM	64@32	23.85	21.85	0.1531
78	30	50	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	23.62	21.62	0.1452
78	30	50	633334	3500.01	DFT-s-OFDM 64 QAM	1@131	23.42	21.42	0.1387
78	30	50	633334	3500.01	DFT-s-OFDM 256 QAM	64@32	21.34	19.34	0.0859
78	30	50	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	21.29	19.29	0.0849
78	30	50	633334	3500.01	DFT-s-OFDM 256 QAM	1@131	21.46	19.46	0.0883
78	30	50	633334	3500.01	CP-OFDM QPSK	67@33	24.76	22.76	0.1888
78	30	50	633334	3500.01	CP-OFDM QPSK	1@1	24.82	22.82	0.1914
78	30	50	633334	3500.01	CP-OFDM QPSK	1@131	24.69	22.69	0.1858
78	30	50	635000	3525	DFT-s-OFDM PI/2 BPSK	64@32	26.1	24.1	0.2570
78	30	50	635000	3525	DFT-s-OFDM PI/2 BPSK	1@1	26.15	24.15	0.2600
78	30	50	635000	3525	DFT-s-OFDM PI/2 BPSK	1@131	26.05	24.05	0.2541
78	30	50	635000	3525	DFT-s-OFDM QPSK	64@32	26.05	24.05	0.2541
78	30	50	635000	3525	DFT-s-OFDM QPSK	1@1	26.24	24.24	0.2655
78	30	50	635000	3525	DFT-s-OFDM QPSK	1@131	26.1	24.1	0.2570
78	30	50	635000	3525	DFT-s-OFDM 16 QAM	64@32	25.18	23.18	0.2080
78	30	50	635000	3525	DFT-s-OFDM 16 QAM	1@1	25.3	23.3	0.2138
78	30	50	635000	3525	DFT-s-OFDM 16 QAM	1@131	25.21	23.21	0.2094
78	30	50	635000	3525	DFT-s-OFDM 64 QAM	64@32	23.57	21.57	0.1435
78	30	50	635000	3525	DFT-s-OFDM 64 QAM	1@1	23.63	21.63	0.1455
78	30	50	635000	3525	DFT-s-OFDM 64 QAM	1@131	23.44	21.44	0.1393
78	30	50	635000	3525	DFT-s-OFDM 256 QAM	64@32	21.15	19.15	0.0822

78	30	50	635000	3525	DFT-s-OFDM 256 QAM	1@1	21.28	19.28	0.0847
78	30	50	635000	3525	DFT-s-OFDM 256 QAM	1@131	21.21	19.21	0.0834
78	30	50	635000	3525	CP-OFDM QPSK	67@33	24.61	22.61	0.1824
78	30	50	635000	3525	CP-OFDM QPSK	1@1	24.76	22.76	0.1888
78	30	50	635000	3525	CP-OFDM QPSK	1@131	24.54	22.54	0.1795
78	30	60	632000	3480	DFT-s-OFDM PI/2 BPSK	81@40	26.31	24.31	0.2698
78	30	60	632000	3480	DFT-s-OFDM PI/2 BPSK	1@1	26.18	24.18	0.2618
78	30	60	632000	3480	DFT-s-OFDM PI/2 BPSK	1@160	26.05	24.05	0.2541
78	30	60	632000	3480	DFT-s-OFDM QPSK	81@40	26.24	24.24	0.2655
78	30	60	632000	3480	DFT-s-OFDM QPSK	1@1	26.29	24.29	0.2685
78	30	60	632000	3480	DFT-s-OFDM QPSK	1@160	26.14	24.14	0.2594
78	30	60	632000	3480	DFT-s-OFDM 16 QAM	81@40	25.24	23.24	0.2109
78	30	60	632000	3480	DFT-s-OFDM 16 QAM	1@1	25.22	23.22	0.2099
78	30	60	632000	3480	DFT-s-OFDM 16 QAM	1@160	25.1	23.1	0.2042
78	30	60	632000	3480	DFT-s-OFDM 64 QAM	81@40	23.77	21.77	0.1503
78	30	60	632000	3480	DFT-s-OFDM 64 QAM	1@1	23.71	21.71	0.1483
78	30	60	632000	3480	DFT-s-OFDM 64 QAM	1@160	23.57	21.57	0.1435
78	30	60	632000	3480	DFT-s-OFDM 256 QAM	81@40	21.53	19.53	0.0897
78	30	60	632000	3480	DFT-s-OFDM 256 QAM	1@1	21.69	19.69	0.0931
78	30	60	632000	3480	DFT-s-OFDM 256 QAM	1@160	21.87	19.87	0.0971
78	30	60	632000	3480	CP-OFDM QPSK	81@40	24.87	22.87	0.1936
78	30	60	632000	3480	CP-OFDM QPSK	1@1	24.78	22.78	0.1897
78	30	60	632000	3480	CP-OFDM QPSK	1@160	24.52	22.52	0.1786
78	30	60	633334	3500.01	DFT-s-OFDM PI/2 BPSK	81@40	26.29	24.29	0.2685

78	30	60	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	26.22	24.22	0.2642
78	30	60	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@160	25.95	23.95	0.2483
78	30	60	633334	3500.01	DFT-s-OFDM QPSK	81@40	26.27	24.27	0.2673
78	30	60	633334	3500.01	DFT-s-OFDM QPSK	1@1	26.34	24.34	0.2716
78	30	60	633334	3500.01	DFT-s-OFDM QPSK	1@160	26.09	24.09	0.2564
78	30	60	633334	3500.01	DFT-s-OFDM 16 QAM	81@40	25.3	23.3	0.2138
78	30	60	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	25.36	23.36	0.2168
78	30	60	633334	3500.01	DFT-s-OFDM 16 QAM	1@160	25.13	23.13	0.2056
78	30	60	633334	3500.01	DFT-s-OFDM 64 QAM	81@40	23.86	21.86	0.1535
78	30	60	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	23.74	21.74	0.1493
78	30	60	633334	3500.01	DFT-s-OFDM 64 QAM	1@160	23.51	21.51	0.1416
78	30	60	633334	3500.01	DFT-s-OFDM 256 QAM	81@40	22.29	20.29	0.1069
78	30	60	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	21.7	19.7	0.0933
78	30	60	633334	3500.01	DFT-s-OFDM 256 QAM	1@160	21.08	19.08	0.0809
78	30	60	633334	3500.01	CP-OFDM QPSK	81@40	24.8	22.8	0.1905
78	30	60	633334	3500.01	CP-OFDM QPSK	1@1	24.72	22.72	0.1871
78	30	60	633334	3500.01	CP-OFDM QPSK	1@160	24.6	22.6	0.1820
78	30	60	634666	3519.99	DFT-s-OFDM PI/2 BPSK	81@40	26.02	24.02	0.2523
78	30	60	634666	3519.99	DFT-s-OFDM PI/2 BPSK	1@1	26.4	24.4	0.2754
78	30	60	634666	3519.99	DFT-s-OFDM PI/2 BPSK	1@160	25.93	23.93	0.2472
78	30	60	634666	3519.99	DFT-s-OFDM QPSK	81@40	25.99	23.99	0.2506
78	30	60	634666	3519.99	DFT-s-OFDM QPSK	1@1	26.44	24.44	0.2780
78	30	60	634666	3519.99	DFT-s-OFDM QPSK	1@160	25.9	23.9	0.2455
78	30	60	634666	3519.99	DFT-s-OFDM 16 QAM	81@40	25.11	23.11	0.2046

78	30	60	634666	3519.99	DFT-s-OFDM 16 QAM	1@1	25.32	23.32	0.2148
78	30	60	634666	3519.99	DFT-s-OFDM 16 QAM	1@160	25	23	0.1995
78	30	60	634666	3519.99	DFT-s-OFDM 64 QAM	81@40	23.65	21.65	0.1462
78	30	60	634666	3519.99	DFT-s-OFDM 64 QAM	1@1	23.41	21.41	0.1384
78	30	60	634666	3519.99	DFT-s-OFDM 64 QAM	1@160	23.41	21.41	0.1384
78	30	60	634666	3519.99	DFT-s-OFDM 256 QAM	81@40	22.07	20.07	0.1016
78	30	60	634666	3519.99	DFT-s-OFDM 256 QAM	1@1	21.97	19.97	0.0993
78	30	60	634666	3519.99	DFT-s-OFDM 256 QAM	1@160	21.94	19.94	0.0986
78	30	60	634666	3519.99	CP-OFDM QPSK	81@40	24.63	22.63	0.1832
78	30	60	634666	3519.99	CP-OFDM QPSK	1@1	24.81	22.81	0.1910
78	30	60	634666	3519.99	CP-OFDM QPSK	1@160	24.43	22.43	0.1750
78	30	70	632334	3485.01	DFT-s-OFDM PI/2 BPSK	90@45	26.15	24.15	0.2600
78	30	70	632334	3485.01	DFT-s-OFDM PI/2 BPSK	1@1	26.18	24.18	0.2618
78	30	70	632334	3485.01	DFT-s-OFDM PI/2 BPSK	1@187	25.88	23.88	0.2443
78	30	70	632334	3485.01	DFT-s-OFDM QPSK	90@45	26.17	24.17	0.2612
78	30	70	632334	3485.01	DFT-s-OFDM QPSK	1@1	26.27	24.27	0.2673
78	30	70	632334	3485.01	DFT-s-OFDM QPSK	1@187	25.78	23.78	0.2388
78	30	70	632334	3485.01	DFT-s-OFDM 16 QAM	90@45	25.18	23.18	0.2080
78	30	70	632334	3485.01	DFT-s-OFDM 16 QAM	1@1	25.22	23.22	0.2099
78	30	70	632334	3485.01	DFT-s-OFDM 16 QAM	1@187	24.95	22.95	0.1972
78	30	70	632334	3485.01	DFT-s-OFDM 64 QAM	90@45	23.72	21.72	0.1486
78	30	70	632334	3485.01	DFT-s-OFDM 64 QAM	1@1	23.67	21.67	0.1469
78	30	70	632334	3485.01	DFT-s-OFDM 64 QAM	1@187	23.4	21.4	0.1380
78	30	70	632334	3485.01	DFT-s-OFDM 256 QAM	90@45	22.15	20.15	0.1035

78	30	70	632334	3485.01	DFT-s-OFDM 256 QAM	1@1	21.27	19.27	0.0845
78	30	70	632334	3485.01	DFT-s-OFDM 256 QAM	1@187	21.32	19.32	0.0855
78	30	70	632334	3485.01	CP-OFDM QPSK	95@47	24.7	22.7	0.1862
78	30	70	632334	3485.01	CP-OFDM QPSK	1@1	24.69	22.69	0.1858
78	30	70	632334	3485.01	CP-OFDM QPSK	1@187	24.49	22.49	0.1774
78	30	70	633334	3500.01	DFT-s-OFDM PI/2 BPSK	90@45	26.29	24.29	0.2685
78	30	70	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	26.27	24.27	0.2673
78	30	70	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@187	25.98	23.98	0.2500
78	30	70	633334	3500.01	DFT-s-OFDM QPSK	90@45	26.32	24.32	0.2704
78	30	70	633334	3500.01	DFT-s-OFDM QPSK	1@1	26.15	24.15	0.2600
78	30	70	633334	3500.01	DFT-s-OFDM QPSK	1@187	25.87	23.87	0.2438
78	30	70	633334	3500.01	DFT-s-OFDM 16 QAM	90@45	25.3	23.3	0.2138
78	30	70	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	25.5	23.5	0.2239
78	30	70	633334	3500.01	DFT-s-OFDM 16 QAM	1@187	25.19	23.19	0.2084
78	30	70	633334	3500.01	DFT-s-OFDM 64 QAM	90@45	23.86	21.86	0.1535
78	30	70	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	23.71	21.71	0.1483
78	30	70	633334	3500.01	DFT-s-OFDM 64 QAM	1@187	23.41	21.41	0.1384
78	30	70	633334	3500.01	DFT-s-OFDM 256 QAM	90@45	22.21	20.21	0.1050
78	30	70	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	21.18	19.18	0.0828
78	30	70	633334	3500.01	DFT-s-OFDM 256 QAM	1@187	21.33	19.33	0.0857
78	30	70	633334	3500.01	CP-OFDM QPSK	95@47	24.81	22.81	0.1910
78	30	70	633334	3500.01	CP-OFDM QPSK	1@1	24.88	22.88	0.1941
78	30	70	633334	3500.01	CP-OFDM QPSK	1@187	24.63	22.63	0.1832
78	30	70	634332	3514.98	DFT-s-OFDM PI/2 BPSK	90@45	26.08	24.08	0.2559

78	30	70	634332	3514.98	DFT-s-OFDM PI/2 BPSK	1@1	26.35	24.35	0.2723
78	30	70	634332	3514.98	DFT-s-OFDM PI/2 BPSK	1@187	25.9	23.9	0.2455
78	30	70	634332	3514.98	DFT-s-OFDM QPSK	90@45	26.12	24.12	0.2582
78	30	70	634332	3514.98	DFT-s-OFDM QPSK	1@1	26.39	24.39	0.2748
78	30	70	634332	3514.98	DFT-s-OFDM QPSK	1@187	25.92	23.92	0.2466
78	30	70	634332	3514.98	DFT-s-OFDM 16 QAM	90@45	25.1	23.1	0.2042
78	30	70	634332	3514.98	DFT-s-OFDM 16 QAM	1@1	25.4	23.4	0.2188
78	30	70	634332	3514.98	DFT-s-OFDM 16 QAM	1@187	25.05	23.05	0.2018
78	30	70	634332	3514.98	DFT-s-OFDM 64 QAM	90@45	23.68	21.68	0.1472
78	30	70	634332	3514.98	DFT-s-OFDM 64 QAM	1@1	23.72	21.72	0.1486
78	30	70	634332	3514.98	DFT-s-OFDM 64 QAM	1@187	23.4	21.4	0.1380
78	30	70	634332	3514.98	DFT-s-OFDM 256 QAM	90@45	21.16	19.16	0.0824
78	30	70	634332	3514.98	DFT-s-OFDM 256 QAM	1@1	21.32	19.32	0.0855
78	30	70	634332	3514.98	DFT-s-OFDM 256 QAM	1@187	21.36	19.36	0.0863
78	30	70	634332	3514.98	CP-OFDM QPSK	95@47	24.65	22.65	0.1841
78	30	70	634332	3514.98	CP-OFDM QPSK	1@1	25.02	23.02	0.2004
78	30	70	634332	3514.98	CP-OFDM QPSK	1@187	24.46	22.46	0.1762
78	30	80	632668	3490.02	DFT-s-OFDM PI/2 BPSK	108@54	26.28	24.28	0.2679
78	30	80	632668	3490.02	DFT-s-OFDM PI/2 BPSK	1@1	26.05	24.05	0.2541
78	30	80	632668	3490.02	DFT-s-OFDM PI/2 BPSK	1@215	25.88	23.88	0.2443
78	30	80	632668	3490.02	DFT-s-OFDM QPSK	108@54	26.18	24.18	0.2618
78	30	80	632668	3490.02	DFT-s-OFDM QPSK	1@1	26.1	24.1	0.2570
78	30	80	632668	3490.02	DFT-s-OFDM QPSK	1@215	25.96	23.96	0.2489
78	30	80	632668	3490.02	DFT-s-OFDM 16 QAM	108@54	25.23	23.23	0.2104

78	30	80	632668	3490.02	DFT-s-OFDM 16 QAM	1@1	25.3	23.3	0.2138
78	30	80	632668	3490.02	DFT-s-OFDM 16 QAM	1@215	25.16	23.16	0.2070
78	30	80	632668	3490.02	DFT-s-OFDM 64 QAM	108@54	23.8	21.8	0.1514
78	30	80	632668	3490.02	DFT-s-OFDM 64 QAM	1@1	23.79	21.79	0.1510
78	30	80	632668	3490.02	DFT-s-OFDM 64 QAM	1@215	23.56	21.56	0.1432
78	30	80	632668	3490.02	DFT-s-OFDM 256 QAM	108@54	22.23	20.23	0.1054
78	30	80	632668	3490.02	DFT-s-OFDM 256 QAM	1@1	22.02	20.02	0.1005
78	30	80	632668	3490.02	DFT-s-OFDM 256 QAM	1@215	20.94	18.94	0.0783
78	30	80	632668	3490.02	CP-OFDM QPSK	109@54	24.72	22.72	0.1871
78	30	80	632668	3490.02	CP-OFDM QPSK	1@1	24.73	22.73	0.1875
78	30	80	632668	3490.02	CP-OFDM QPSK	1@215	24.57	22.57	0.1807
78	30	80	633334	3500.01	DFT-s-OFDM PI/2 BPSK	108@54	26.29	24.29	0.2685
78	30	80	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	26.17	24.17	0.2612
78	30	80	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@215	26.06	24.06	0.2547
78	30	80	633334	3500.01	DFT-s-OFDM QPSK	108@54	26.29	24.29	0.2685
78	30	80	633334	3500.01	DFT-s-OFDM QPSK	1@1	26.31	24.31	0.2698
78	30	80	633334	3500.01	DFT-s-OFDM QPSK	1@215	26.05	24.05	0.2541
78	30	80	633334	3500.01	DFT-s-OFDM 16 QAM	108@54	25.31	23.31	0.2143
78	30	80	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	25.17	23.17	0.2075
78	30	80	633334	3500.01	DFT-s-OFDM 16 QAM	1@215	25.25	23.25	0.2113
78	30	80	633334	3500.01	DFT-s-OFDM 64 QAM	108@54	23.82	21.82	0.1521
78	30	80	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	23.64	21.64	0.1459
78	30	80	633334	3500.01	DFT-s-OFDM 64 QAM	1@215	23.75	21.75	0.1496
78	30	80	633334	3500.01	DFT-s-OFDM 256 QAM	108@54	21.39	19.39	0.0869

78	30	80	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	22.31	20.31	0.1074
78	30	80	633334	3500.01	DFT-s-OFDM 256 QAM	1@215	21.5	19.5	0.0891
78	30	80	633334	3500.01	CP-OFDM QPSK	109@54	24.83	22.83	0.1919
78	30	80	633334	3500.01	CP-OFDM QPSK	1@1	24.92	22.92	0.1959
78	30	80	633334	3500.01	CP-OFDM QPSK	1@215	24.74	22.74	0.1879
78	30	80	634000	3510	DFT-s-OFDM PI/2 BPSK	108@54	26.19	24.19	0.2624
78	30	80	634000	3510	DFT-s-OFDM PI/2 BPSK	1@1	26.23	24.23	0.2649
78	30	80	634000	3510	DFT-s-OFDM PI/2 BPSK	1@215	25.95	23.95	0.2483
78	30	80	634000	3510	DFT-s-OFDM QPSK	108@54	26.13	24.13	0.2588
78	30	80	634000	3510	DFT-s-OFDM QPSK	1@1	26.31	24.31	0.2698
78	30	80	634000	3510	DFT-s-OFDM QPSK	1@215	25.96	23.96	0.2489
78	30	80	634000	3510	DFT-s-OFDM 16 QAM	108@54	25.17	23.17	0.2075
78	30	80	634000	3510	DFT-s-OFDM 16 QAM	1@1	25.41	23.41	0.2193
78	30	80	634000	3510	DFT-s-OFDM 16 QAM	1@215	24.99	22.99	0.1991
78	30	80	634000	3510	DFT-s-OFDM 64 QAM	108@54	23.74	21.74	0.1493
78	30	80	634000	3510	DFT-s-OFDM 64 QAM	1@1	23.87	21.87	0.1538
78	30	80	634000	3510	DFT-s-OFDM 64 QAM	1@215	23.63	21.63	0.1455
78	30	80	634000	3510	DFT-s-OFDM 256 QAM	108@54	21.22	19.22	0.0836
78	30	80	634000	3510	DFT-s-OFDM 256 QAM	1@1	21.21	19.21	0.0834
78	30	80	634000	3510	DFT-s-OFDM 256 QAM	1@215	21.35	19.35	0.0861
78	30	80	634000	3510	CP-OFDM QPSK	109@54	24.7	22.7	0.1862
78	30	80	634000	3510	CP-OFDM QPSK	1@1	24.84	22.84	0.1923
78	30	80	634000	3510	CP-OFDM QPSK	1@215	24.53	22.53	0.1791
78	30	90	633000	3495	DFT-s-OFDM PI/2 BPSK	120@60	26.25	24.25	0.2661

78	30	90	633000	3495	DFT-s-OFDM PI/2 BPSK	1@1	26.04	24.04	0.2535
78	30	90	633000	3495	DFT-s-OFDM PI/2 BPSK	1@243	25.95	23.95	0.2483
78	30	90	633000	3495	DFT-s-OFDM QPSK	120@60	26.27	24.27	0.2673
78	30	90	633000	3495	DFT-s-OFDM QPSK	1@1	26.18	24.18	0.2618
78	30	90	633000	3495	DFT-s-OFDM QPSK	1@243	25.89	23.89	0.2449
78	30	90	633000	3495	DFT-s-OFDM 16 QAM	120@60	25.31	23.31	0.2143
78	30	90	633000	3495	DFT-s-OFDM 16 QAM	1@1	25.37	23.37	0.2173
78	30	90	633000	3495	DFT-s-OFDM 16 QAM	1@243	25.08	23.08	0.2032
78	30	90	633000	3495	DFT-s-OFDM 64 QAM	120@60	23.74	21.74	0.1493
78	30	90	633000	3495	DFT-s-OFDM 64 QAM	1@1	23.62	21.62	0.1452
78	30	90	633000	3495	DFT-s-OFDM 64 QAM	1@243	23.53	21.53	0.1422
78	30	90	633000	3495	DFT-s-OFDM 256 QAM	120@60	21.39	19.39	0.0869
78	30	90	633000	3495	DFT-s-OFDM 256 QAM	1@1	21.49	19.49	0.0889
78	30	90	633000	3495	DFT-s-OFDM 256 QAM	1@243	21.02	19.02	0.0798
78	30	90	633000	3495	CP-OFDM QPSK	123@61	24.79	22.79	0.1901
78	30	90	633000	3495	CP-OFDM QPSK	1@1	24.83	22.83	0.1919
78	30	90	633000	3495	CP-OFDM QPSK	1@243	24.53	22.53	0.1791
78	30	90	633334	3500.01	DFT-s-OFDM PI/2 BPSK	120@60	26.29	24.29	0.2685
78	30	90	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	26.14	24.14	0.2594
78	30	90	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@243	26.07	24.07	0.2553
78	30	90	633334	3500.01	DFT-s-OFDM QPSK	120@60	26.36	24.36	0.2729
78	30	90	633334	3500.01	DFT-s-OFDM QPSK	1@1	26.2	24.2	0.2630
78	30	90	633334	3500.01	DFT-s-OFDM QPSK	1@243	26	24	0.2512
78	30	90	633334	3500.01	DFT-s-OFDM 16 QAM	120@60	25.29	23.29	0.2133

78	30	90	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	25.27	23.27	0.2123
78	30	90	633334	3500.01	DFT-s-OFDM 16 QAM	1@243	25.17	23.17	0.2075
78	30	90	633334	3500.01	DFT-s-OFDM 64 QAM	120@60	23.72	21.72	0.1486
78	30	90	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	23.59	21.59	0.1442
78	30	90	633334	3500.01	DFT-s-OFDM 64 QAM	1@243	23.5	21.5	0.1413
78	30	90	633334	3500.01	DFT-s-OFDM 256 QAM	120@60	21.4	19.4	0.0871
78	30	90	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	21.57	19.57	0.0906
78	30	90	633334	3500.01	DFT-s-OFDM 256 QAM	1@243	21.08	19.08	0.0809
78	30	90	633334	3500.01	CP-OFDM QPSK	123@61	24.74	22.74	0.1879
78	30	90	633334	3500.01	CP-OFDM QPSK	1@1	24.64	22.64	0.1837
78	30	90	633334	3500.01	CP-OFDM QPSK	1@243	24.49	22.49	0.1774
78	30	90	633666	3504.99	DFT-s-OFDM PI/2 BPSK	120@60	26.22	24.22	0.2642
78	30	90	633666	3504.99	DFT-s-OFDM PI/2 BPSK	1@1	26.15	24.15	0.2600
78	30	90	633666	3504.99	DFT-s-OFDM PI/2 BPSK	1@243	25.96	23.96	0.2489
78	30	90	633666	3504.99	DFT-s-OFDM QPSK	120@60	26.25	24.25	0.2661
78	30	90	633666	3504.99	DFT-s-OFDM QPSK	1@1	26.25	24.25	0.2661
78	30	90	633666	3504.99	DFT-s-OFDM QPSK	1@243	25.95	23.95	0.2483
78	30	90	633666	3504.99	DFT-s-OFDM 16 QAM	120@60	25.2	23.2	0.2089
78	30	90	633666	3504.99	DFT-s-OFDM 16 QAM	1@1	25.26	23.26	0.2118
78	30	90	633666	3504.99	DFT-s-OFDM 16 QAM	1@243	25.04	23.04	0.2014
78	30	90	633666	3504.99	DFT-s-OFDM 64 QAM	120@60	23.73	21.73	0.1489
78	30	90	633666	3504.99	DFT-s-OFDM 64 QAM	1@1	23.73	21.73	0.1489
78	30	90	633666	3504.99	DFT-s-OFDM 64 QAM	1@243	23.46	21.46	0.1400
78	30	90	633666	3504.99	DFT-s-OFDM 256 QAM	120@60	21.39	19.39	0.0869

78	30	90	633666	3504.99	DFT-s-OFDM 256 QAM	1@1	21.7	19.7	0.0933
78	30	90	633666	3504.99	DFT-s-OFDM 256 QAM	1@243	21.27	19.27	0.0845
78	30	90	633666	3504.99	CP-OFDM QPSK	123@61	24.76	22.76	0.1888
78	30	90	633666	3504.99	CP-OFDM QPSK	1@1	24.67	22.67	0.1849
78	30	90	633666	3504.99	CP-OFDM QPSK	1@243	24.46	22.46	0.1762
78	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	135@67	26.75	24.75	0.2985
78	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	26.18	24.18	0.2618
78	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@271	25.89	23.89	0.2449
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	135@67	26.28	24.28	0.2679
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@1	26.11	24.11	0.2576
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@271	25.89	23.89	0.2449
78	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	135@67	25.27	23.27	0.2123
78	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	25.46	23.46	0.2218
78	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	1@271	25.2	23.2	0.2089
78	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	135@67	23.87	21.87	0.1538
78	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	23.71	21.71	0.1483
78	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	1@271	23.55	21.55	0.1429
78	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	135@67	21.37	19.37	0.0865
78	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	21.66	19.66	0.0925
78	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	1@271	20.99	18.99	0.0793
78	30	100	633334	3500.01	CP-OFDM QPSK	137@68	24.77	22.77	0.1892
78	30	100	633334	3500.01	CP-OFDM QPSK	1@1	24.74	22.74	0.1879
78	30	100	633334	3500.01	CP-OFDM QPSK	1@271	24.59	22.59	0.1816

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	-0.00248	PASS	NV
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	-0.00861	PASS	LV
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	-0.00859	PASS	HV
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	-0.00551	PASS	-30°C
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	-0.00511	PASS	-20°C
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	-0.00522	PASS	-10°C
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	-0.00221	PASS	0°C
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	-0.00387	PASS	10°C
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	-0.00693	PASS	20°C
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	-0.00634	PASS	30°C
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	-0.00739	PASS	40°C
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	-0.00507	PASS	50°C

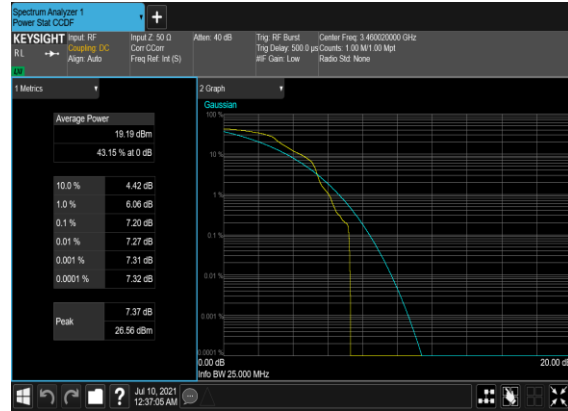
Peak to Average Ratio

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	6.79	13	PASS
78	30	20	630668	3460.02	DFT-s-OFDM PI/2 BPSK	1@0	7.2	13	PASS
78	30	20	630668	3460.02	DFT-s-OFDM QPSK	50@0	7.44	13	PASS
78	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@0	7.07	13	PASS
78	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	50@0	6.72	13	PASS
78	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@0	7.11	13	PASS
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	7.48	13	PASS
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@0	7.1	13	PASS
78	30	20	636000	3540.0	DFT-s-OFDM PI/2 BPSK	50@0	6.77	13	PASS
78	30	20	636000	3540.0	DFT-s-OFDM PI/2 BPSK	1@0	7.36	13	PASS
78	30	20	636000	3540.0	DFT-s-OFDM QPSK	50@0	7.58	13	PASS
78	30	20	636000	3540.0	DFT-s-OFDM QPSK	1@0	7.42	13	PASS

N78(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Low_CH



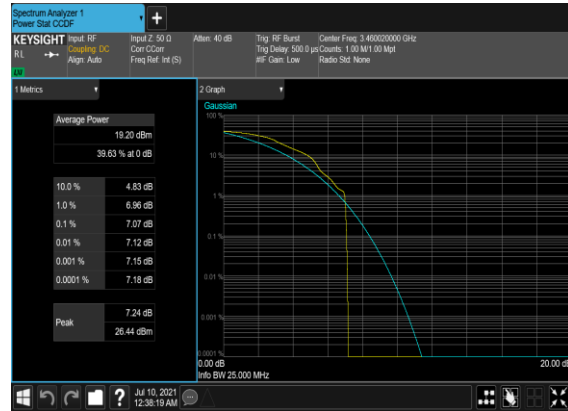
N78(20M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_Low_CH



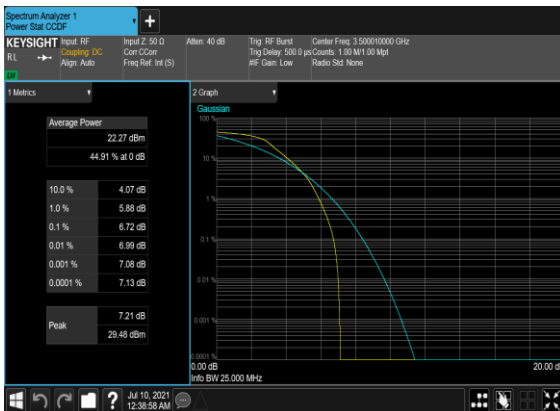
N78(20M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



N78(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



N78(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



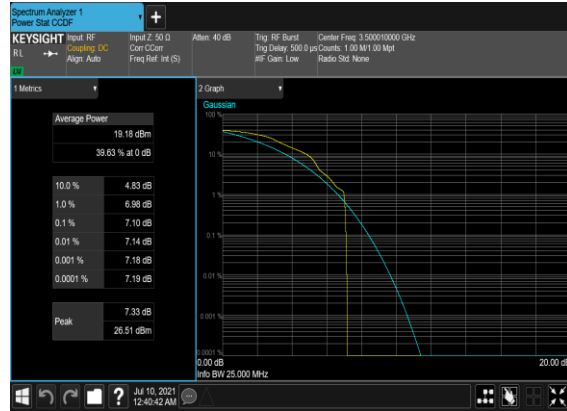
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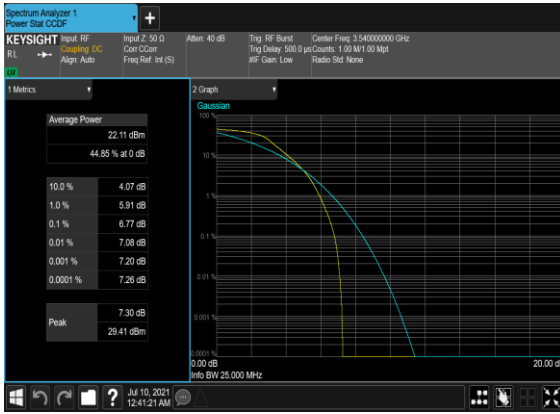
N78(20M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



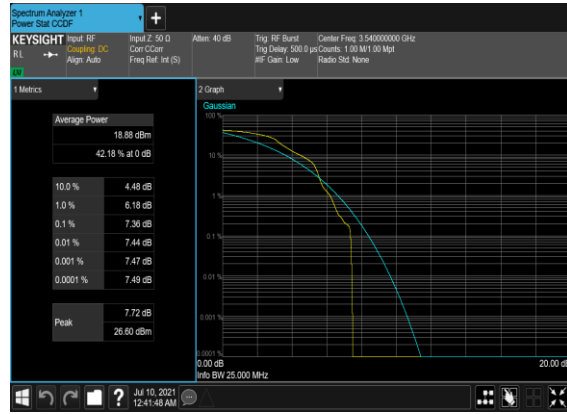
N78(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



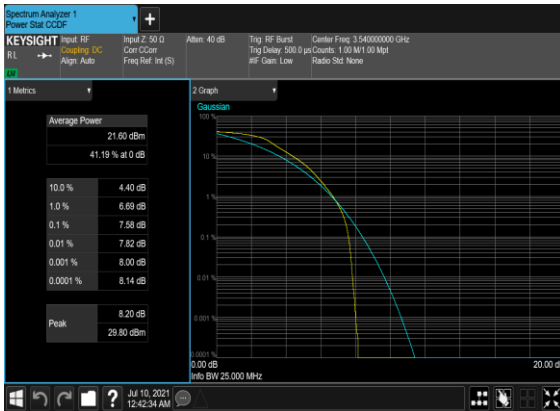
N78(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_High_CH



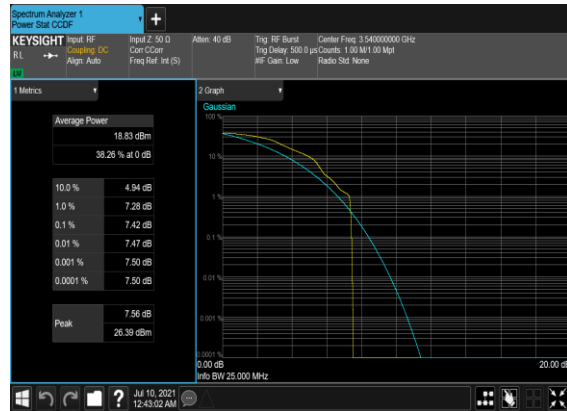
N78(20M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_High_CH



N78(20M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



N78(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



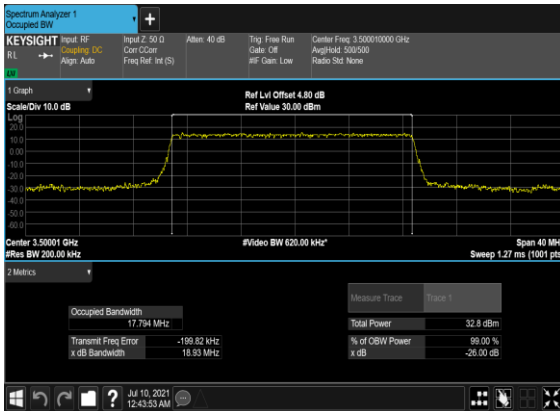
Occupied Bandwidth

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB OBW (MHz)
78	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	50@0	17.794	18.93
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	17.81	18.91
78	30	20	633334	3500.01	CP-OFDM QPSK	51@0	18.21	19.52
78	30	20	633334	3500.01	CP-OFDM 16 QAM	51@0	18.259	19.26
78	30	20	633334	3500.01	CP-OFDM 64 QAM	51@0	18.232	19.53
78	30	20	633334	3500.01	CP-OFDM 256 QAM	51@0	18.195	19.39
78	30	30	633334	3500.01	DFT-s-OFDM PI/2 BPSK	75@0	26.741	28.32
78	30	30	633334	3500.01	DFT-s-OFDM QPSK	75@0	26.746	28.1
78	30	30	633334	3500.01	CP-OFDM QPSK	78@0	27.848	29.2
78	30	30	633334	3500.01	CP-OFDM 16 QAM	78@0	27.841	29.02
78	30	30	633334	3500.01	CP-OFDM 64 QAM	78@0	27.863	29.17
78	30	30	633334	3500.01	CP-OFDM 256 QAM	78@0	27.836	29.14
78	30	40	633334	3500.01	DFT-s-OFDM PI/2 BPSK	100@0	35.685	37.37
78	30	40	633334	3500.01	DFT-s-OFDM QPSK	100@0	35.736	37.35
78	30	40	633334	3500.01	CP-OFDM QPSK	106@0	37.727	39.27
78	30	40	633334	3500.01	CP-OFDM 16 QAM	106@0	37.862	39.34
78	30	40	633334	3500.01	CP-OFDM 64 QAM	106@0	37.801	39.29
78	30	40	633334	3500.01	CP-OFDM 256 QAM	106@0	37.891	39.47
78	30	50	633334	3500.01	DFT-s-OFDM PI/2 BPSK	128@0	45.746	47.43
78	30	50	633334	3500.01	DFT-s-OFDM QPSK	128@0	45.741	47.54
78	30	50	633334	3500.01	CP-OFDM QPSK	133@0	47.51	49.4
78	30	50	633334	3500.01	CP-OFDM 16 QAM	133@0	47.439	49.32
78	30	50	633334	3500.01	CP-OFDM 64 QAM	133@0	47.56	49.29
78	30	50	633334	3500.01	CP-OFDM 256 QAM	133@0	47.44	49.31

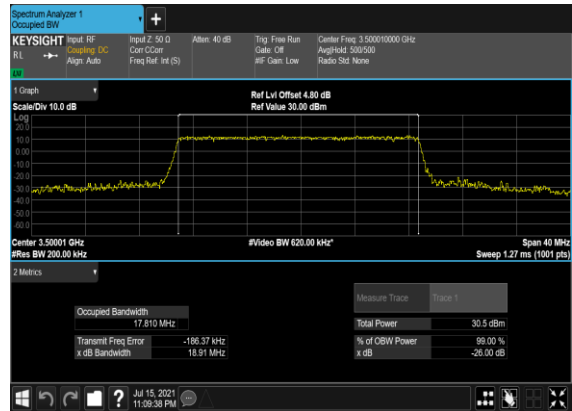
78	30	60	633334	3500.01	DFT-s-OFDM PI/2 BPSK	162@0	57.827	59.8
78	30	60	633334	3500.01	DFT-s-OFDM QPSK	162@0	57.802	60.03
78	30	60	633334	3500.01	CP-OFDM QPSK	162@0	57.771	59.95
78	30	60	633334	3500.01	CP-OFDM 16 QAM	162@0	57.798	59.88
78	30	60	633334	3500.01	CP-OFDM 64 QAM	162@0	57.867	59.88
78	30	60	633334	3500.01	CP-OFDM 256 QAM	162@0	57.891	59.82
78	30	70	633334	3500.01	DFT-s-OFDM PI/2 BPSK	180@0	64.486	66.48
78	30	70	633334	3500.01	DFT-s-OFDM QPSK	180@0	64.401	66.58
78	30	70	633334	3500.01	CP-OFDM QPSK	189@0	67.488	69.67
78	30	70	633334	3500.01	CP-OFDM 16 QAM	189@0	67.472	69.76
78	30	70	633334	3500.01	CP-OFDM 64 QAM	189@0	67.566	71.07
78	30	70	633334	3500.01	CP-OFDM 256 QAM	189@0	67.593	69.63
78	30	80	633334	3500.01	DFT-s-OFDM PI/2 BPSK	216@0	77.168	79.64
78	30	80	633334	3500.01	DFT-s-OFDM QPSK	216@0	77.094	79.57
78	30	80	633334	3500.01	CP-OFDM QPSK	217@0	77.566	80.05
78	30	80	633334	3500.01	CP-OFDM 16 QAM	217@0	77.616	80.0
78	30	80	633334	3500.01	CP-OFDM 64 QAM	217@0	77.511	80.09
78	30	80	633334	3500.01	CP-OFDM 256 QAM	217@0	77.349	80.0
78	30	90	633334	3500.01	DFT-s-OFDM PI/2 BPSK	240@0	85.662	88.62
78	30	90	633334	3500.01	DFT-s-OFDM QPSK	240@0	85.677	88.47
78	30	90	633334	3500.01	CP-OFDM QPSK	245@0	87.506	90.21
78	30	90	633334	3500.01	CP-OFDM 16 QAM	245@0	87.464	90.47
78	30	90	633334	3500.01	CP-OFDM 64 QAM	245@0	87.394	90.32
78	30	90	633334	3500.01	CP-OFDM 256 QAM	245@0	87.542	90.33
78	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	270@0	96.393	99.57
78	30	100	633334	3500.01	DFT-s-OFDM	270@0	96.57	99.56

QPSK								
78	30	100	633334	3500.01	CP-OFDM QPSK	273@0	97.722	100.6
78	30	100	633334	3500.01	CP-OFDM 16 QAM	273@0	97.423	100.6
78	30	100	633334	3500.01	CP-OFDM 64 QAM	273@0	97.4	100.5
78	30	100	633334	3500.01	CP-OFDM 256 QAM	273@0	97.528	100.6

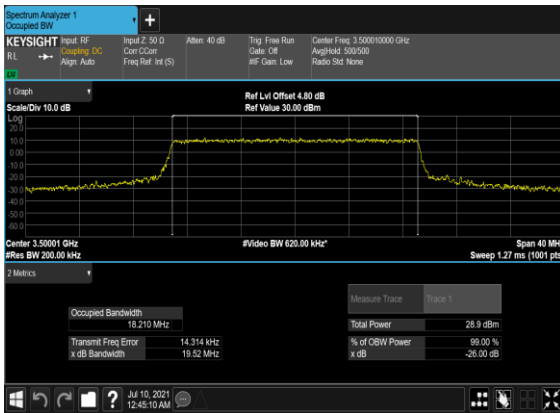
N78(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



N78(20M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



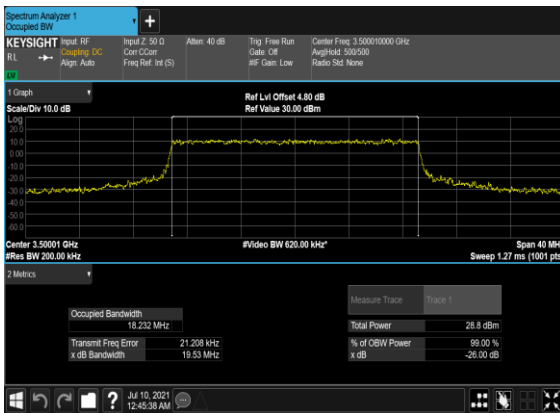
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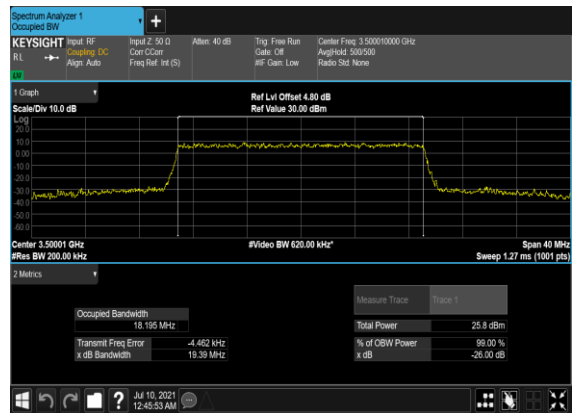
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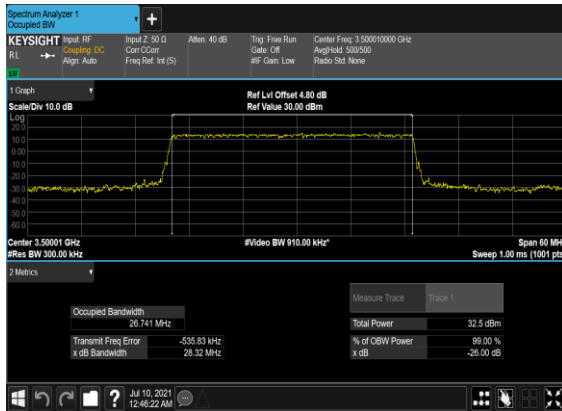
N78(20M)_CP-OFDM_64QAM_Outer_Full_Mid_CH



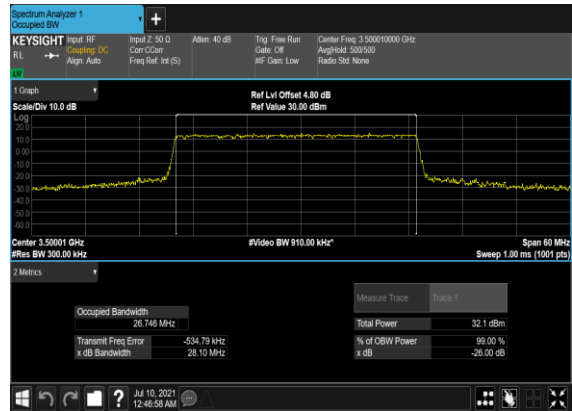
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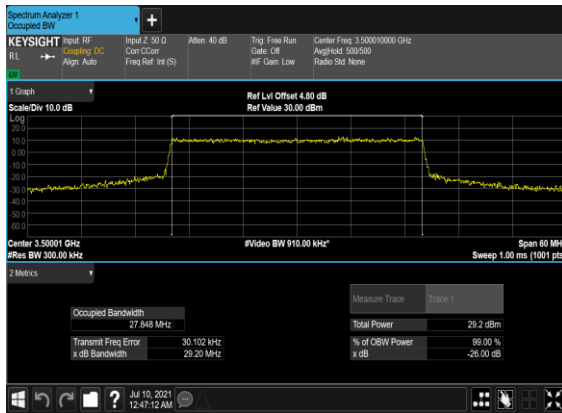
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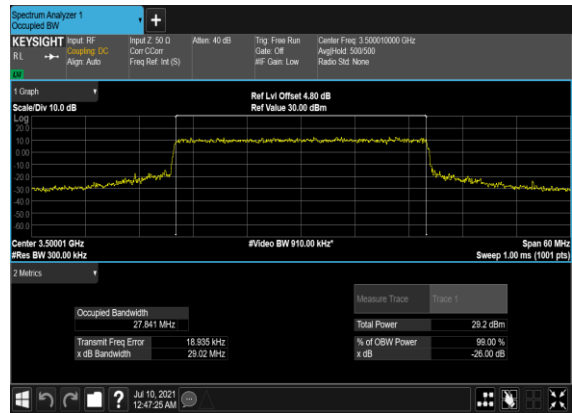
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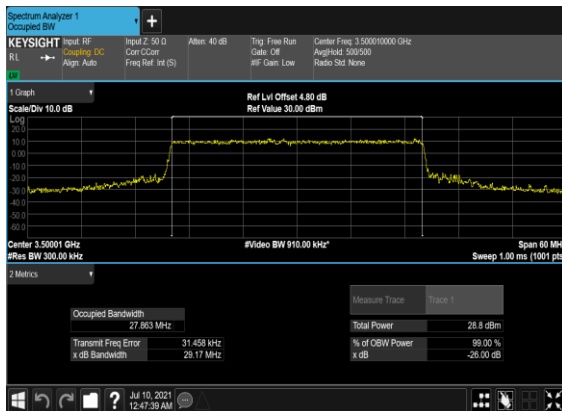
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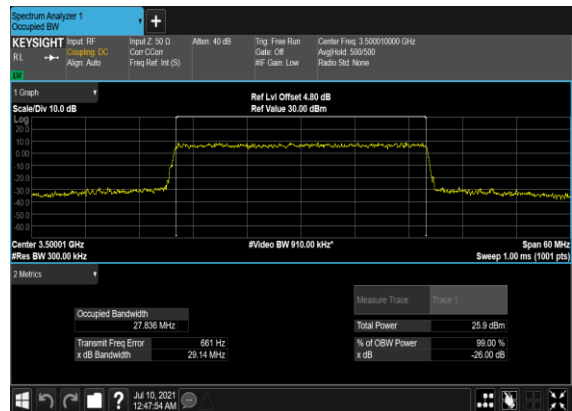
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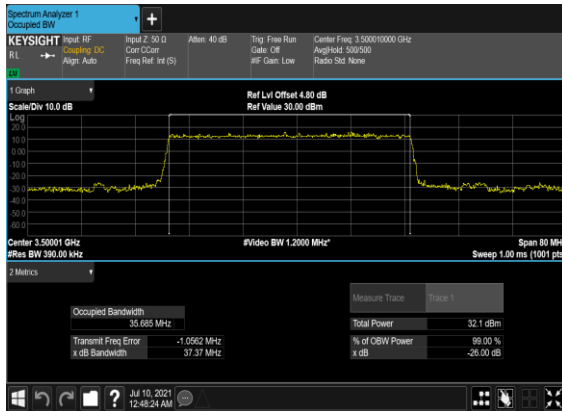
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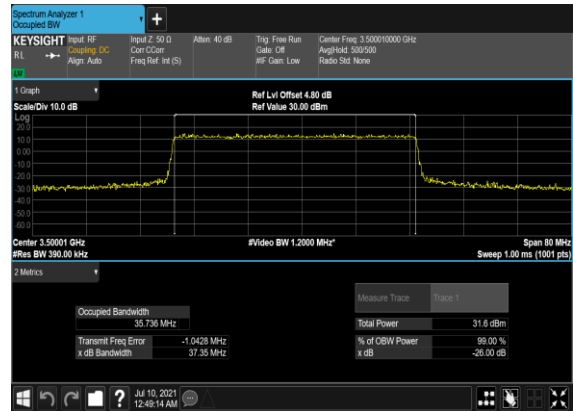
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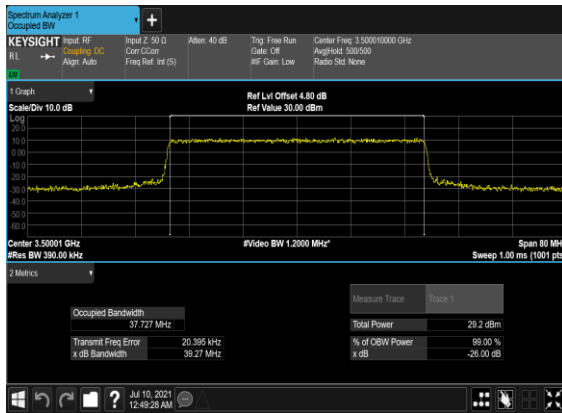
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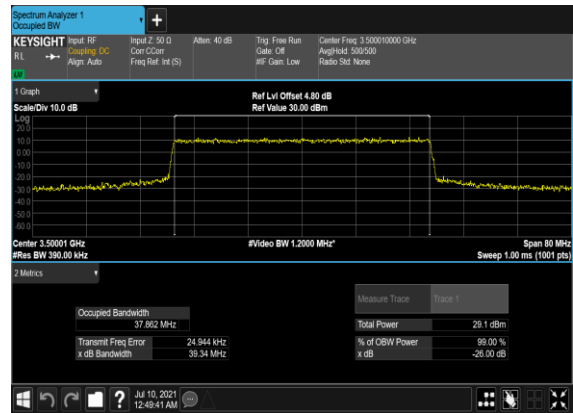
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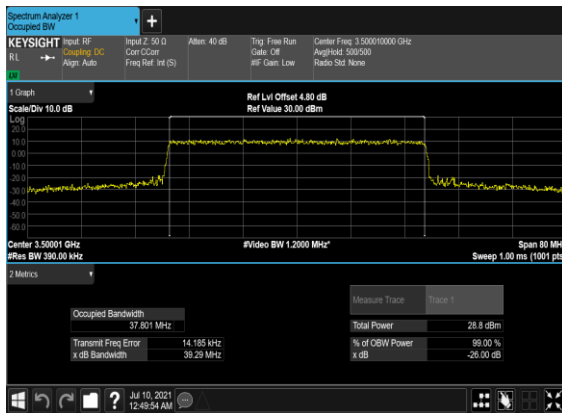
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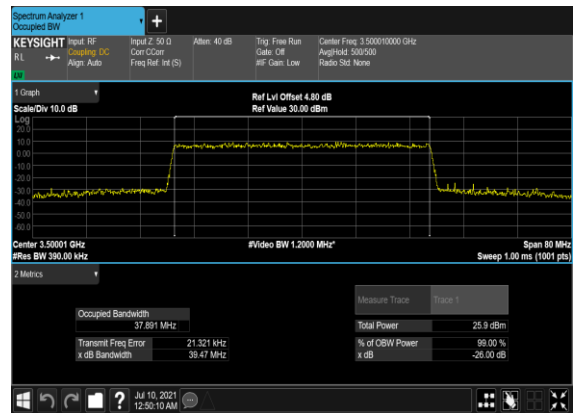
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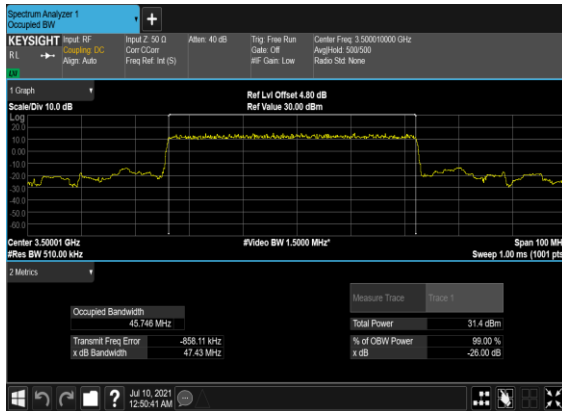
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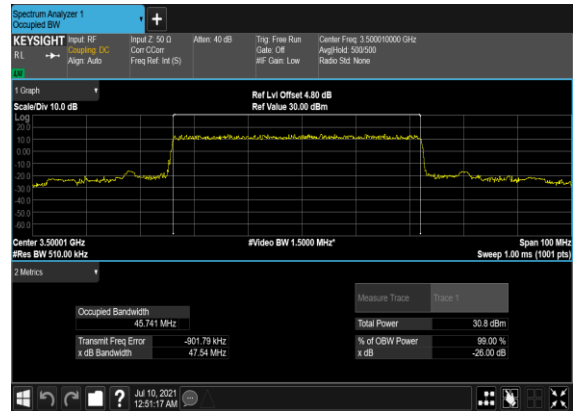
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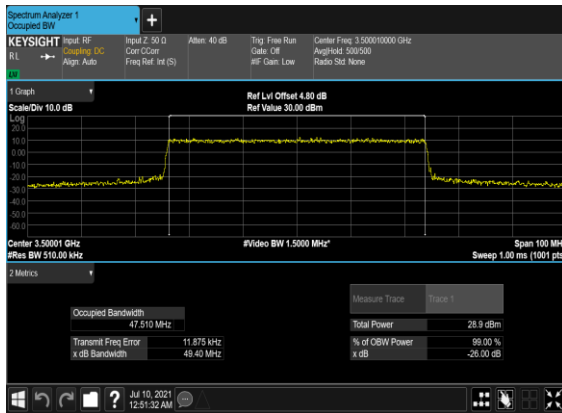
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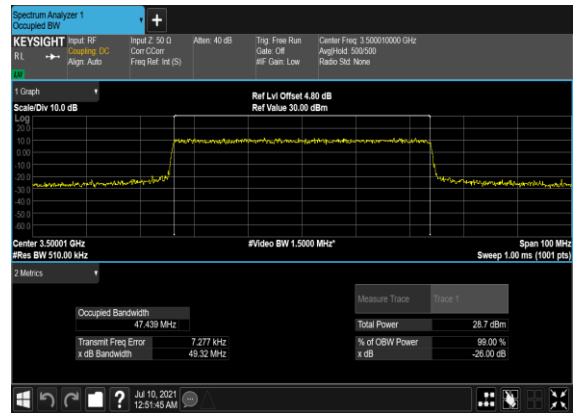
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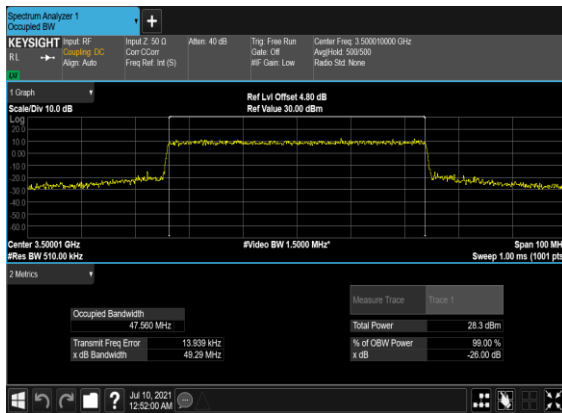
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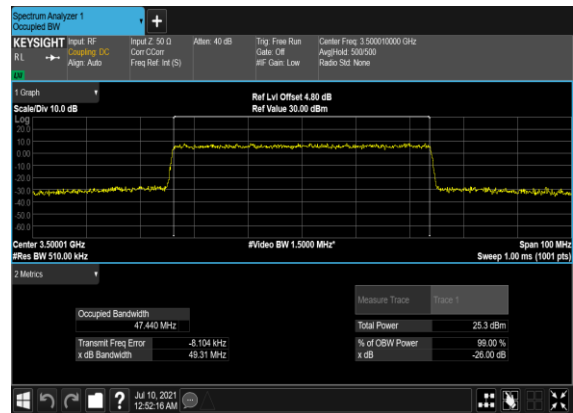
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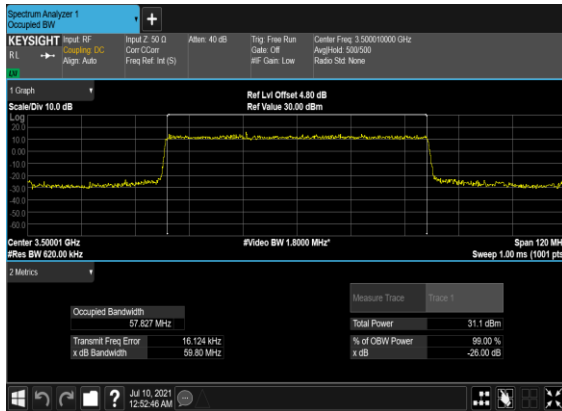
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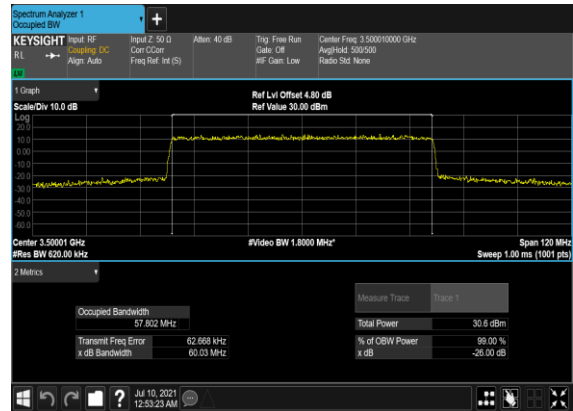
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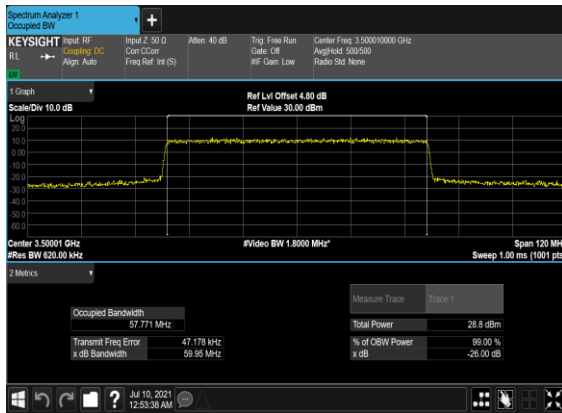
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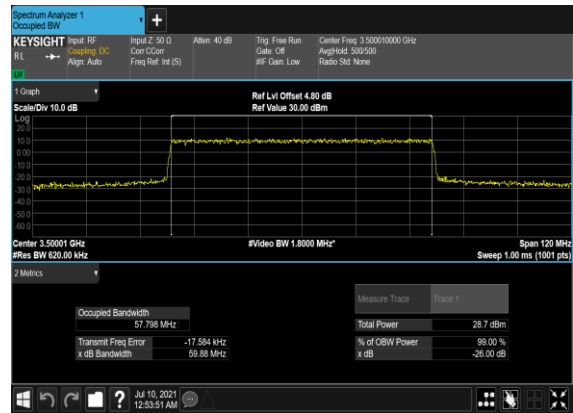
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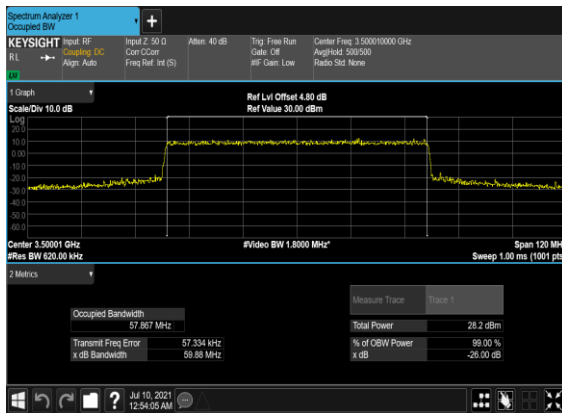
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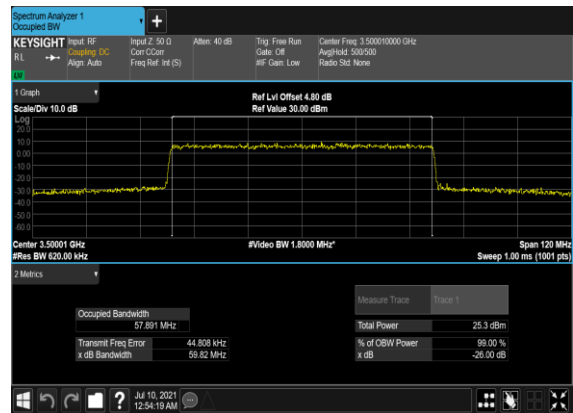
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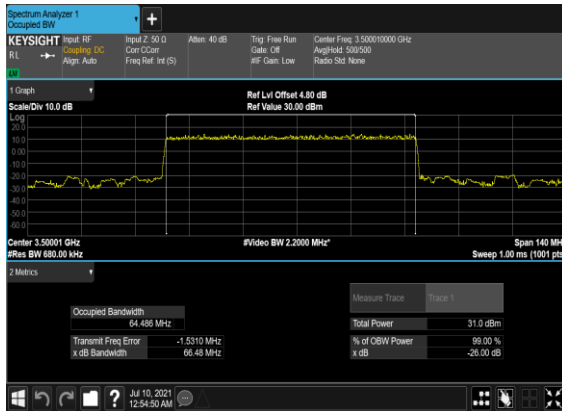
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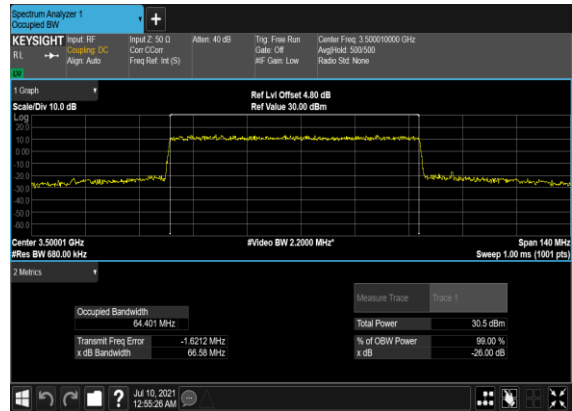
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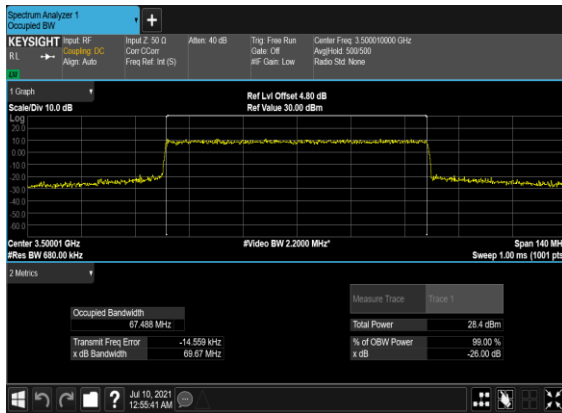
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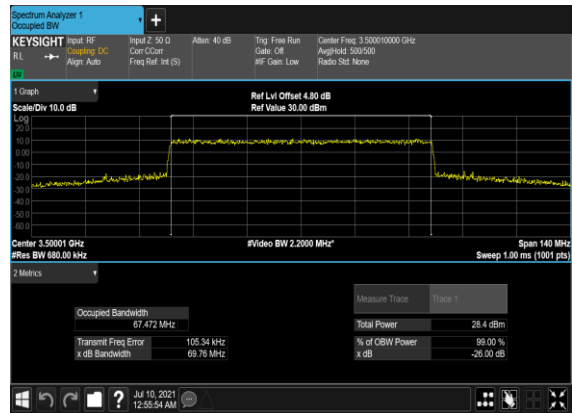
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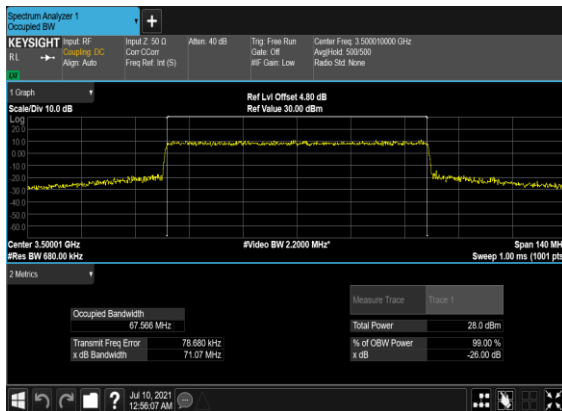
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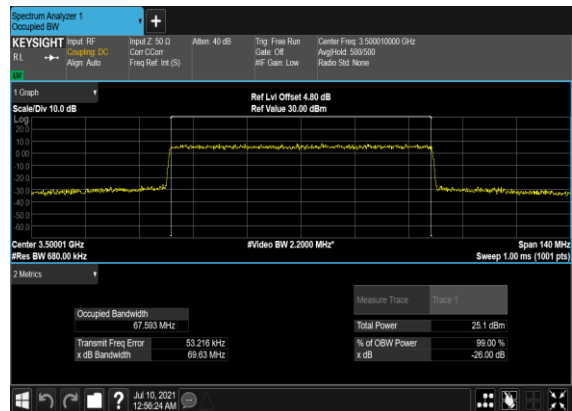
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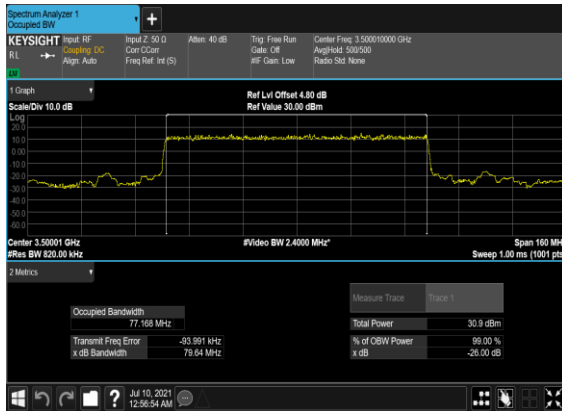
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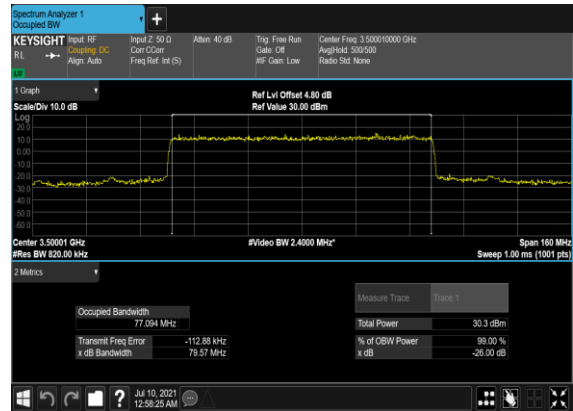
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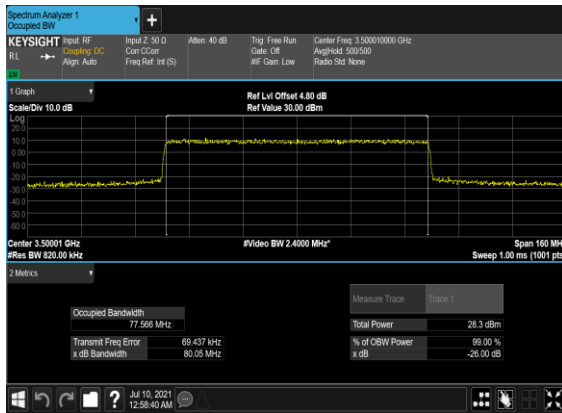
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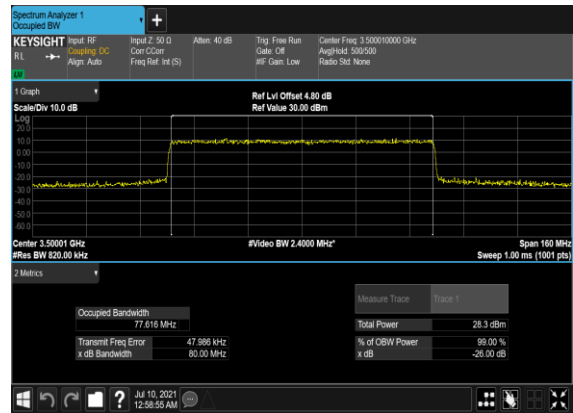
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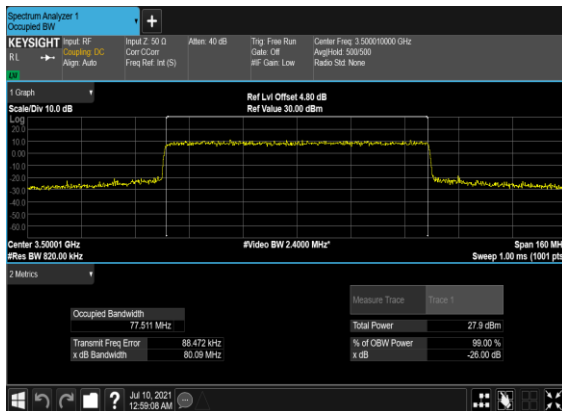
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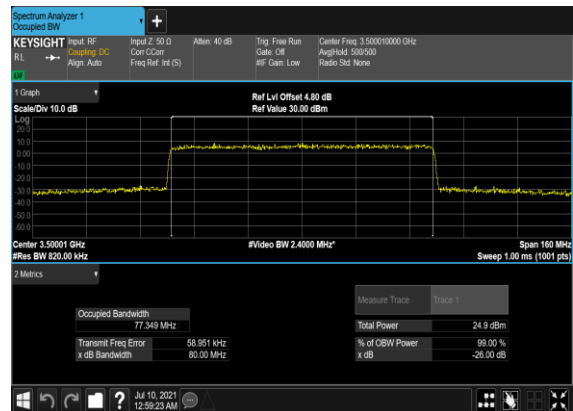
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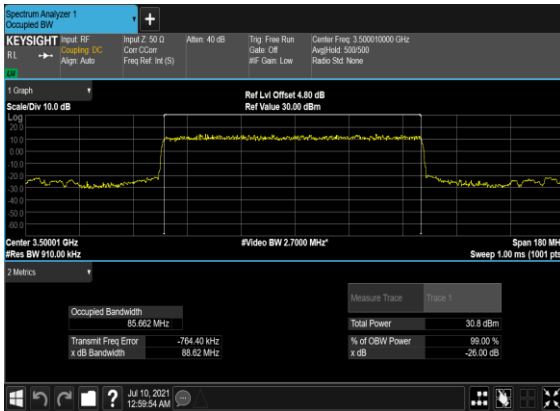
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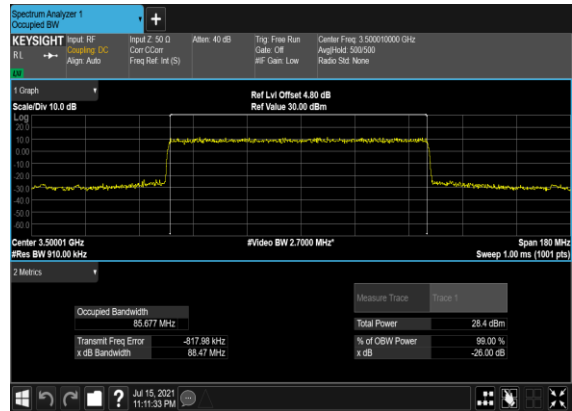
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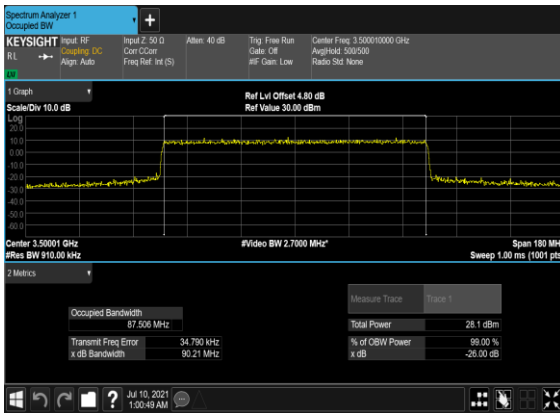
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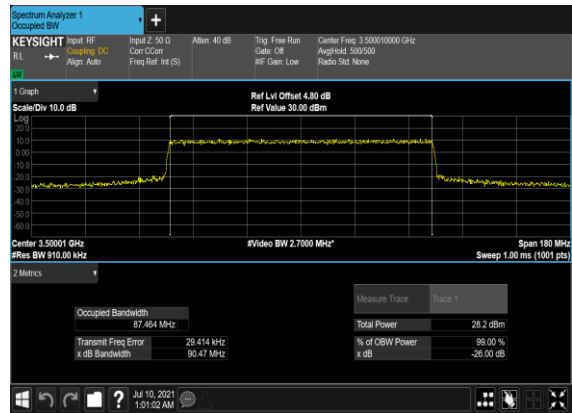
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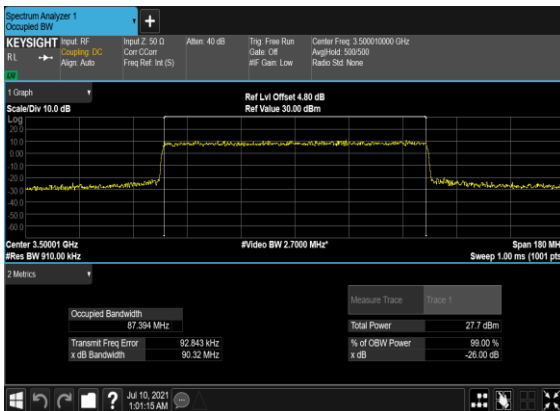
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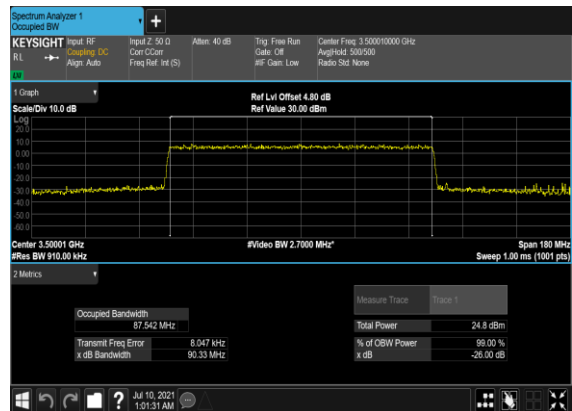
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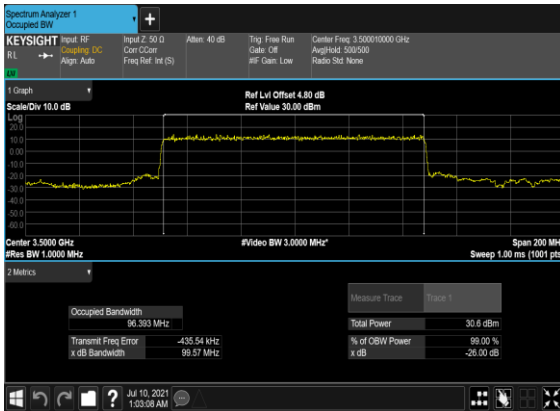
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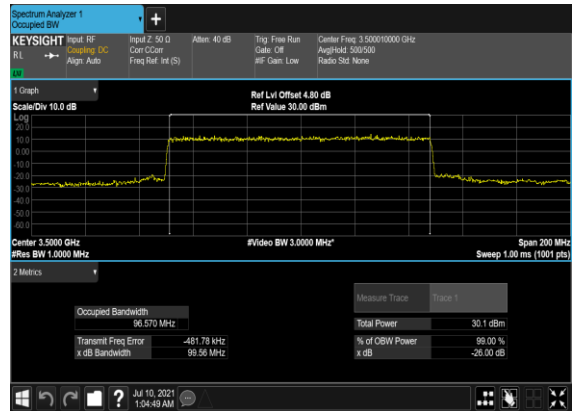
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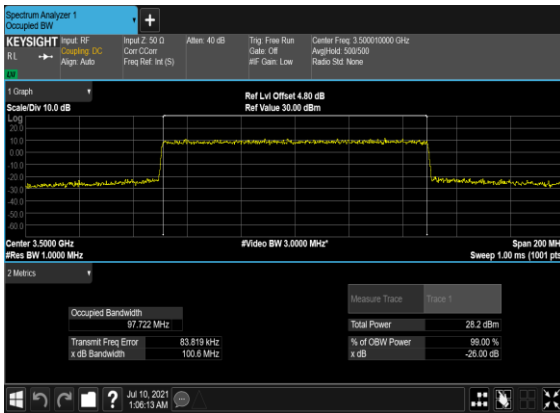
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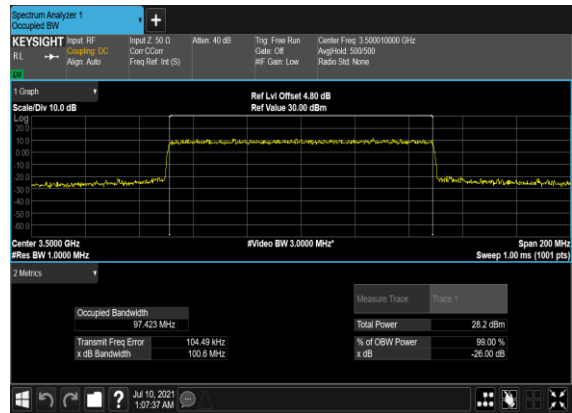
N78(100M)_DFT-s- OFDM_QPSK_Outer_Full_Mid_CH



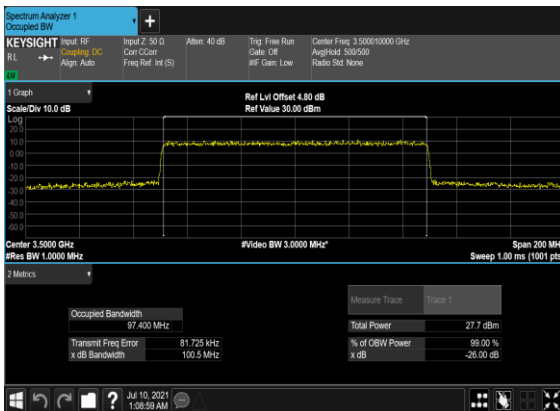
N78(100M)_CP- OFDM_QPSK_Outer_Full_Mid_CH



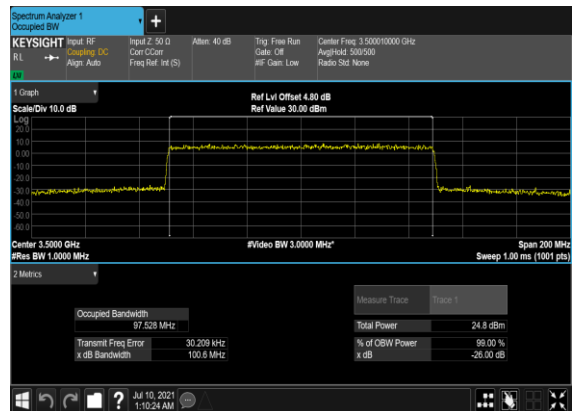
N78(100M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



N78(100M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



N78(100M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

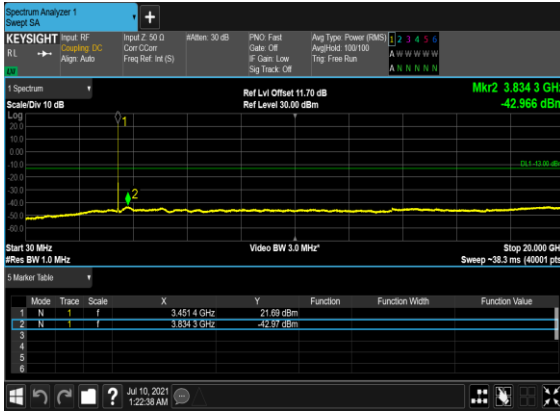


Conducted Spurious Emissions

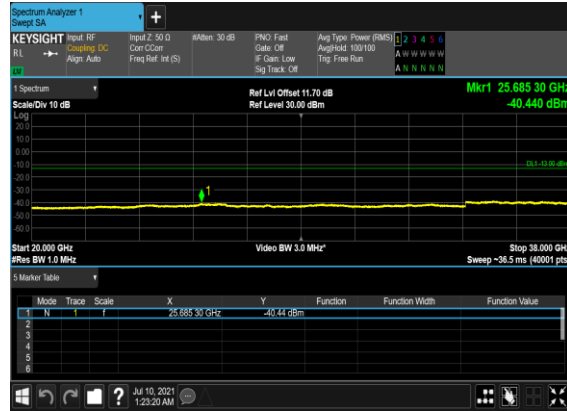
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
78	30	20	630668	3460.02	DFT-s-OFDM BPSK	1@0	see graph	---
78	30	20	630668	3460.02	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	20	630668	3460.02	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@0	see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

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

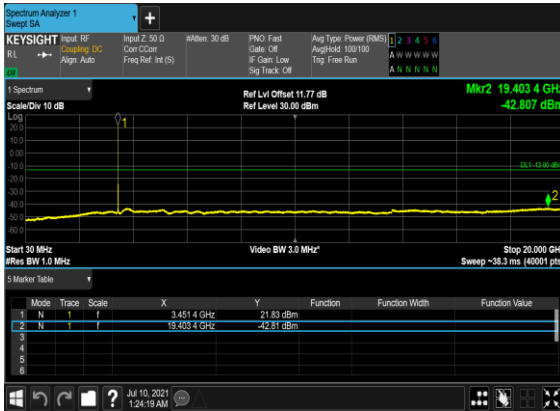
N78(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



N78(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



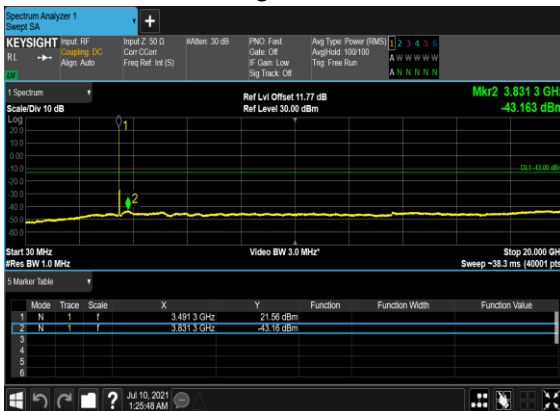
N78(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



N78(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



N78(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



N78(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH

