



FCC RF Test Report

APPLICANT : OnePlus Technology (Shenzhen) Co., Ltd.
EQUIPMENT : Smart Phone
BRAND NAME : ONEPLUS
MODEL NAME : CPH2389
FCC ID : 2ABZ2-AA272
STANDARD : 47 CFR Part 2, 27(O)
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)
TEST DATE(S) : Mar. 04, 2022 ~ Mar. 23, 2022

We, Sporton International Inc. (ShenZhen), 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 Inc. (ShenZhen), the test report shall not be reproduced except in full.

Jason Jia

Approved by: Jason Jia



Sporton International Inc. (ShenZhen)

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People's Republic of China



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG221602E	Rev. 01	Initial issue of report	Jun. 02, 2022



SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	Reporting Only	PASS	-
	§27.50(j)(3)	Equivalent Isotropic Radiated Power (5G NR n77)	EIRP < 1Watt		
3.5	§27.50(j)(4)	Peak-to-Average Ratio	<13 dB	PASS	-
3.6	§2.1049	Occupied Bandwidth	Reporting Only	PASS	-
3.7	§2.1051 §27.53(l)(2)	Conducted Band Edge Measurement (5G NR n77)	< 43+10log ₁₀ (P[Watts])	PASS	-
3.8	§2.1051 §27.53(l)(2)	Conducted Spurious Emission (5G NR n77)	< 43+10log ₁₀ (P[Watts])	PASS	-
3.9	§2.1055 §27.54	Frequency Stability Temperature & Voltage	Within Authorized Band	PASS	-
4.4	§2.1053 §27.53(l)(2)	Radiated Spurious Emission (5G NR n77)	< 43+10log ₁₀ (P[Watts])	PASS	Under limit 37.44 dB at 11790.000 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

OnePlus Technology (Shenzhen) Co., Ltd.

18C02, 18C03, 18C04, and 18C05, Shum Yip Terra Building, Binhe Avenue North, Futian District, Shenzhen, Guangdong, P.R. China

1.2 Manufacturer

OnePlus Technology (Shenzhen) Co., Ltd.

18C02, 18C03, 18C04, and 18C05, Shum Yip Terra Building, Binhe Avenue North, Futian District, Shenzhen, Guangdong, P.R. China

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Smart Phone
Brand Name	ONEPLUS
Model Name	CPH2389
FCC ID	2ABZ2-AA272
IMEI Code	Conducted : 867188060047565 Radiation : 867188060042996
HW Version	11
SW Version	CPH2389_11_A.02
EUT Stage	Production Unit

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	5G NR n77: 3700 MHz ~ 3980 MHz
Rx Frequency	5G NR n77: 3700 MHz ~ 3980 MHz
SCS	n77: 30kHz
Bandwidth	n77: 10MHz / 15MHz / 20MHz / 25MHz / 30MHz / 40MHz / 50MHz / 60MHz / 70MHz / 80MHz / 90MHz / 100MHz
Antenna Gain	<Ant. 3> n77 : -1.5 dBi <Ant. 4> n77 : -2.0 dBi <Ant. 5> n77 : -3.0 dBi <Ant. 6> n77 : -1.0 dBi
Type of Modulation	CP-OFDM: QPSK / 16QAM / 64QAM / 256QAM DFT-s-OFDM: PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM

Remark:

1. The EIRP is calculated from Output power and antenna gain, only the maximum EIRP of n77 for Antenna 4 is shown in the report.
2. 5G NR Bands support SA mode only.

3. The device supports HPUE mode for 5G NR n77.

1.5 Modification of EUT

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

1.6 Maximum EIRP Power and Emission Designator

5G NR n77		PI/2 BPSK / QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
10	3705.00 ~ 3975.00	0.2443	8M59G7D	0.1928	8M58W7D
15	3705.52 ~ 3792.48	0.2500	13M6G7D	0.1950	13M6W7D
20	3710.01 ~ 3969.99	0.2489	18M2G7D	0.2014	18M3W7D
25	3712.50 ~ 3976.50	0.2630	23M2G7D	0.1991	23M2W7D
30	3715.02 ~ 3964.98	0.2541	27M8G7D	0.1963	27M8W7D
40	3720.00 ~ 3960.00	0.2489	37M8G7D	0.1972	37M9W7D
50	3725.01 ~ 3954.99	0.2535	47M5G7D	0.1991	47M5W7D
60	3730.02 ~ 3949.98	0.2535	57M9G7D	0.2018	57M9W7D
70	3735.00 ~ 3945.00	0.2570	67M6G7D	0.2023	67M6W7D
80	3740.01 ~ 3939.99	0.2679	77M5G7D	0.2009	77M6W7D
90	3745.02 ~ 3934.98	0.2518	87M5G7D	0.2004	87M5W7D
100	3750.00 ~ 3930.00	0.2529	97M3G7D	0.2000	97M4W7D

Note: All modulations have been evaluation, only the worst test results of PSK & QAM are shown in the report.

1.7 Testing Location

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

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

Test Firm	Sporton International Inc. (Shenzhen)		
Test Site Location	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City Guangdong Province China 518103 TEL: +86-755-33202398		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	03CH01-SZ	CN1256	421272

1.8 Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH01-SZ	AUDIX	E3	6.2009-8-24

1.9 Applicable Standards

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

- ♦ 47 CFR Part 2, 22, 24, 27
- ♦ ANSI C63.26-2015
- ♦ FCC KDB 971168 D01 Power Meas License Digital Systems v03r01
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01

Remark:

All test items were verified and recorded according to the standards and without any deviation during the test.

2 Test Configuration of Equipment Under Test

2.1 Test Mode

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

For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (X plane) were recorded in this report.

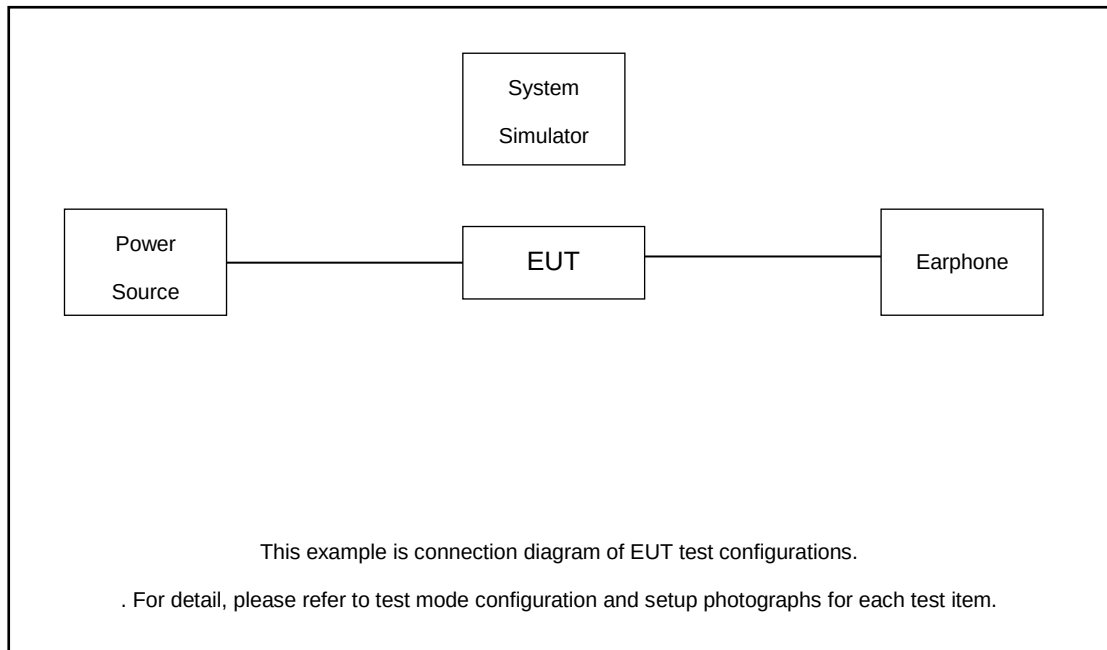
The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.

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	10M, 15M, 20M, 25M, 30M, 40M, 50M, 60M, 70M, 80M, 90M, 100M	PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB, Partial RB, Full RB	L, M, H
Peak-to-Average Ratio	5G n77	20M	PI/2 BPSK, QPSK	1RB, Full RB	L, M, H
E.I.R.P	5G n77	10M, 15M, 20M, 25M, 30M, 40M, 50M, 60M, 70M, 80M, 90M, 100M	PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB, Partial RB, Full RB	L, M, H
26dB and 99% Bandwidth	5G n77	10M, 15M, 20M, 25M, 30M, 40M, 50M, 60M, 70M, 80M, 90M, 100M	PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM	Full RB	M
Conducted Band Edge	5G n77	10M, 50M, 100M	PI/2 BPSK, QPSK	1RB, Full RB	L, H
Conducted Spurious Emission	5G n77	10M, 50M, 100M	PI/2 BPSK, QPSK	1RB	L, M, H
Frequency Stability	5G n77	20M	QPSK	Full RB	M
Radiated Spurious Emission	5G n77	Worst case from maximum power			L, M, H

Note:

1. The mark "v" means that this configuration is chosen for testing
2. The mark "-" means that this bandwidth is not supported.
3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.
4. Frequency Stability: Normal Voltage = 3.87V ; Low Voltage =3.6V; High Voltage =4.45V

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.	DC Power Supply	GW	GPS-3030D	N/A	N/A	Unshielded, 1.8 m
2.	NR Base Station	Anritsu	MT8000A	N/A	N/A	Unshielded, 1.8 m
3.	Earphone	N/A	N/A	N/A	N/A	N/A

2.4 Measurement Results Explanation Example

For all conducted test items:

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

The spectrum analyzer offset is derived from RF cable loss.

Offset = RF cable loss.

Following shows an offset computation example with cable loss 9.1 dB.

Example :

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)}. \\ &= 9.1 \text{ (dB)} \end{aligned}$$



2.5 Frequency List of Low/Middle/High Channels

5G n77 (30kHz) Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
100	Channel	650000	656000	662000
	Frequency	3750	3840	3930
90	Channel	649668	656000	662332
	Frequency	3745.02	3840	3934.98
80	Channel	649334	656000	662666
	Frequency	3740.01	3840	3939.99
70	Channel	649000	656000	663000
	Frequency	3735	3840	3945
60	Channel	648668	656000	663332
	Frequency	3730.02	3840	3949.98
50	Channel	648334	656000	663666
	Frequency	3725.01	3840	3954.99
40	Channel	648000	656000	664000
	Frequency	3720	3840	3960
30	Channel	647668	656000	664332
	Frequency	3715.02	3840	3964.98
25	Channel	647334	656000	664666
	Frequency	3712.5	3840	3976.5
20	Channel	647334	656000	664666
	Frequency	3710.01	3840	3969.99
15	Channel	647168	656000	664832
	Frequency	3707.52	3840	3972.48
10	Channel	647000	656000	665000
	Frequency	3705	3840	3975

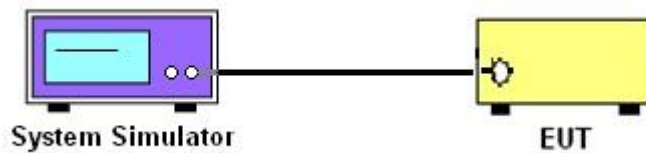
3 Conducted Test Items

3.1 Measuring Instruments

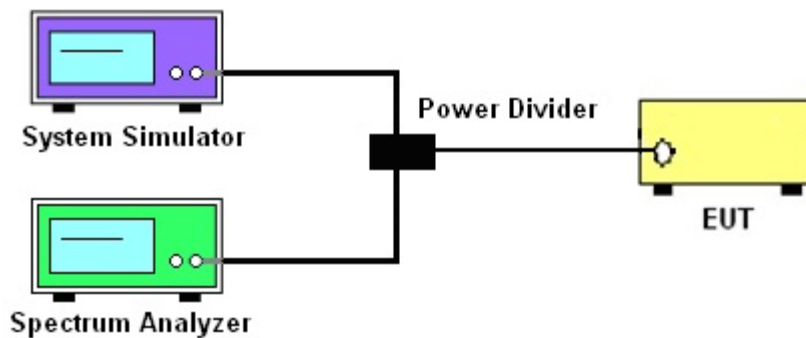
See list of measuring instruments of this test report.

3.2 Test Setup

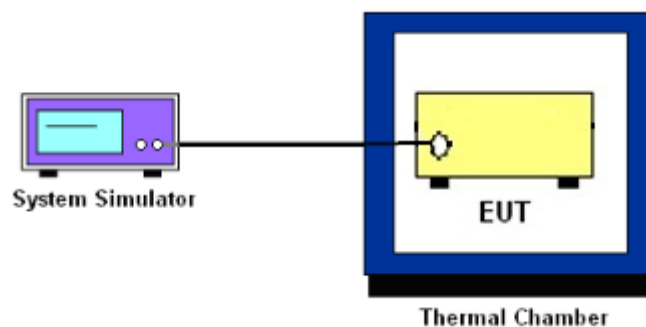
3.2.1 Conducted Output Power



3.2.2 Peak-to-Average Ratio, Occupied Bandwidth ,Conducted 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 and EIRP

3.4.1 Description of the Conducted Output Power Measurement and EIRP Measurement

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

The EIRP of mobile transmitters must not exceed 1 Watts for 5G NR n77.

According to KDB 412172 D01 Power Approach,

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

P_T = transmitter output power in dBm

G_T = gain of the transmitting antenna in dBi

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

3.4.2 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 Occupied Bandwidth

3.6.1 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.

3.6.2 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.

3.7 Conducted Band Edge

3.7.1 Description of Conducted Band Edge Measurement

27.53(l)(2)

For mobile operations in the 3700-3980 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, the minimum resolution bandwidth for the measurement shall be either one percent of the emission bandwidth of the fundamental emission of the transmitter or 350 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.

3.7.2 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 in the 1MHz band immediately outside and adjacent to the band edge.
5. Beyond the 1 MHz band from the band edge, RBW=1MHz was used.
6. Set spectrum analyzer with RMS detector.
7. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
8. Checked that all the results comply with the emission limit line.

Example:

The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)

$$= P(W) - [43 + 10\log(P)] \text{ (dB)}$$

$$= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)} = -13\text{dBm}.$$

9. When using the integration method, the starting frequency of the integration shall be centered at one-half of the RBW away from the band edge.

3.8 Conducted Spurious Emission

3.8.1 Description of Conducted Spurious Emission Measurement

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

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

3.8.2 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 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. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [43 + 10\log(P)]$ (dB)
 $= [30 + 10\log(P)]$ (dBm) - $[43 + 10\log(P)]$ (dB)
 $= -13$ dBm.

3.9 Frequency Stability

3.9.1 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. The frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ ($\pm 2.5\text{ppm}$) of the center frequency.

3.9.2 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.

3.9.3 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.

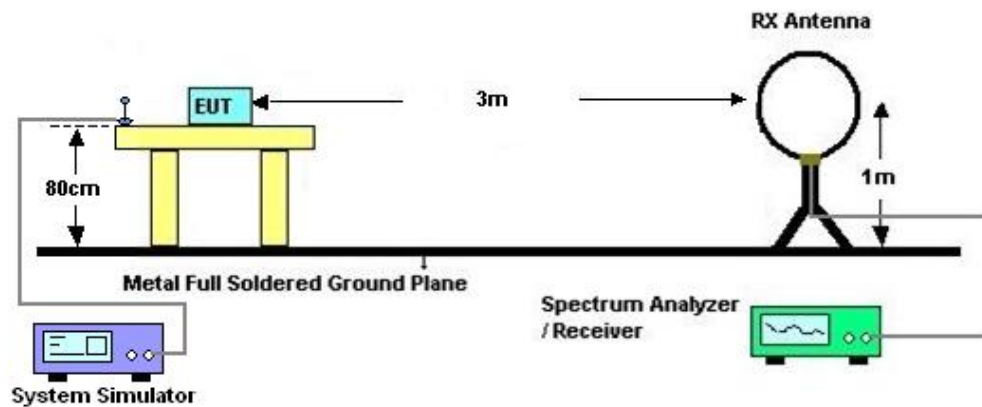
4 Radiated Test Items

4.1 Measuring Instruments

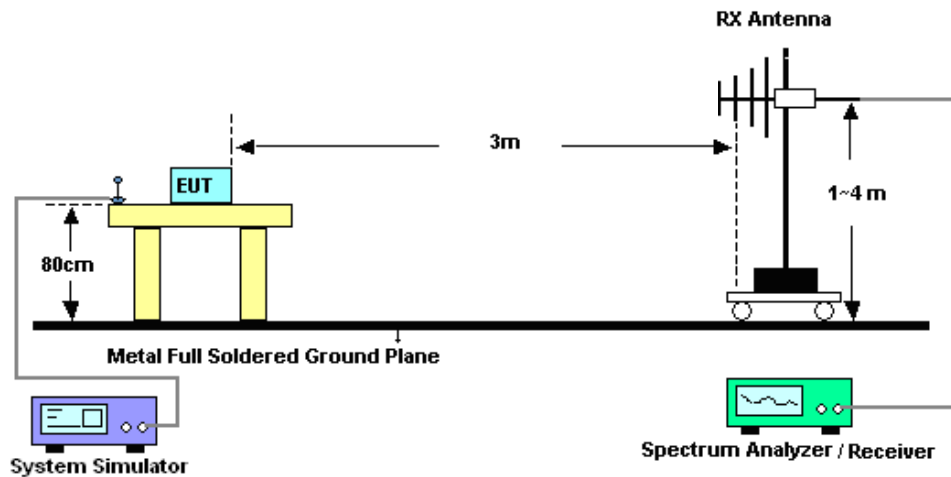
See list of measuring instruments of this test report.

4.2 Test Setup

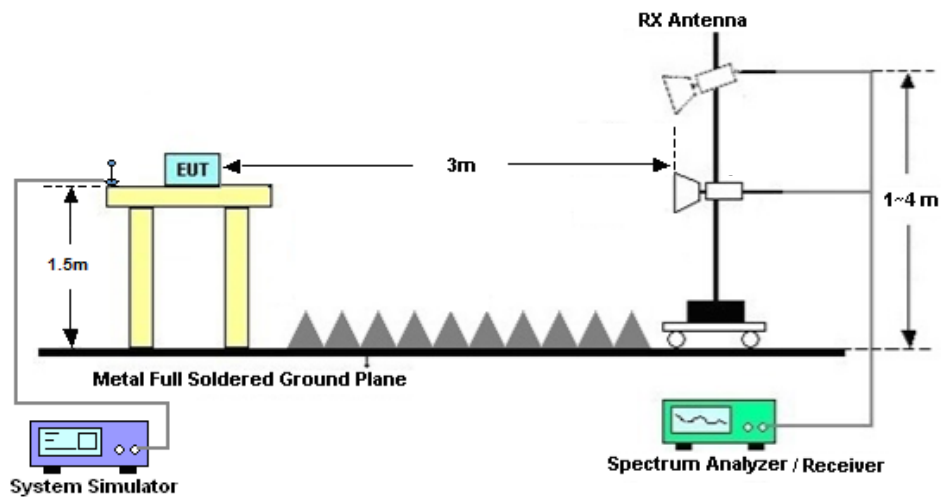
4.2.1 For radiated test below 30MHz



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

4.4.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI C63.26. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

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

4.4.2 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.
10. $EIRP \text{ (dBm)} = S.G. \text{ Power} - Tx \text{ Cable Loss} + Tx \text{ Antenna Gain}$
11. $ERP \text{ (dBm)} = EIRP - 2.15$
12. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)

$$= P(W) - [43 + 10\log(P)] \text{ (dB)}$$

$$= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$$

$$= -13\text{dBm}.$$



5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 08, 2021	Mar. 04, 2022	Apr. 07, 2022	Conducted (TH01-SZ)
DC Power Supply	TTI	PL330P	290070	Max 32V , 3A	Oct. 25, 2021	Mar. 04, 2022	Oct. 24, 2022	Conducted (TH01-SZ)
Power Divider	TOJOIN	PS-2SM-04 265	60.06.020.007 7	0.4GHz~26.5GHz	Dec. 25, 2021	Mar. 04, 2022	Dec. 24, 2022	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 14, 2021	Mar. 04, 2022	Jul. 13, 2022	Conducted (TH01-SZ)
EMI Test Receiver&SA	Agilent	N9038A	MY52260185	20Hz~26.5GHz	Dec. 03, 2020	Mar. 23, 2022	Dec. 02, 2021	Radiation (03CH01-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jun. 22, 2020	Mar. 23, 2022	Jun. 21, 2022	Radiation (03CH01-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270105	0.5GHz~26.5Ghz	Oct. 16, 2021	Mar. 23, 2022	Oct. 15, 2022	Radiation (03CH01-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz-2GHz	Jul. 15, 2021	Mar. 23, 2022	Jul. 14, 2022	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Jul. 25, 2021	Mar. 23, 2022	Jul. 24, 2022	Radiation (03CH01-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Apr. 11, 2021	Mar. 23, 2022	Apr. 10 2022	Radiation (03CH01-SZ)
LF Amplifier	Burgeon	BPA-530	102209	0.01~3000Mhz	Apr. 07, 2021	Mar. 23, 2022	Apr. 06, 2022	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	AMF-7D-00 101800-30-1 0P-R	1943528	1GHz~18GHz	Oct. 15, 2021	Mar. 23, 2022	Oct. 14, 2022	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	TTA1840-35 -HG	1871923	18GHz~40GHz	Jul. 21, 2021	Mar. 23, 2022	Jul. 20, 2022	Radiation (03CH01-SZ)
AC Power Source	Chroma	61601	616010001985	N/A	NCR	Mar. 23, 2022	NCR	Radiation (03CH01-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Mar. 23, 2022	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Mar. 23, 2022	NCR	Radiation (03CH01-SZ)

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% ($U = 2Uc(y)$)	2.48 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.53 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.02 dB
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Appendix A. Test Results of Conducted Test

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

FR1 N77(ANT4)

Transmitter Conducted Output Power and EIRP, (GT-LC=-2.0dB)

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	EIRP (dBm)	EIRP (W)
77	30	10	647000	3705	DFT-s-OFDM PI/2 BPSK	12@6	25.83	23.83	0.2415
77	30	10	647000	3705	DFT-s-OFDM PI/2 BPSK	1@1	25.77	23.77	0.2382
77	30	10	647000	3705	DFT-s-OFDM PI/2 BPSK	1@22	25.81	23.81	0.2404
77	30	10	647000	3705	DFT-s-OFDM QPSK	12@6	25.88	23.88	0.2443
77	30	10	647000	3705	DFT-s-OFDM QPSK	1@1	25.7	23.7	0.2344
77	30	10	647000	3705	DFT-s-OFDM QPSK	1@22	25.7	23.7	0.2344
77	30	10	647000	3705	DFT-s-OFDM 16 QAM	12@6	24.85	22.85	0.1928
77	30	10	647000	3705	DFT-s-OFDM 16 QAM	1@1	24.79	22.79	0.1901
77	30	10	647000	3705	DFT-s-OFDM 16 QAM	1@22	24.65	22.65	0.1841
77	30	10	647000	3705	DFT-s-OFDM 64 QAM	12@6	23.47	21.47	0.1403
77	30	10	647000	3705	DFT-s-OFDM 64 QAM	1@1	23.22	21.22	0.1324
77	30	10	647000	3705	DFT-s-OFDM 64 QAM	1@22	23.4	21.4	0.1380
77	30	10	647000	3705	DFT-s-OFDM 256 QAM	12@6	21.3	19.3	0.0851
77	30	10	647000	3705	DFT-s-OFDM 256 QAM	1@1	20.8	18.8	0.0759
77	30	10	647000	3705	DFT-s-OFDM 256 QAM	1@22	20.82	18.82	0.0762
77	30	10	647000	3705	CP-OFDM QPSK	12@6	24.44	22.44	0.1754
77	30	10	647000	3705	CP-OFDM QPSK	1@1	24.07	22.07	0.1611
77	30	10	647000	3705	CP-OFDM QPSK	1@22	24.24	22.24	0.1675
77	30	10	656000	3840	DFT-s-OFDM PI/2 BPSK	12@6	25.69	23.69	0.2339
77	30	10	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	25.64	23.64	0.2312
77	30	10	656000	3840	DFT-s-OFDM PI/2 BPSK	1@22	25.63	23.63	0.2307
77	30	10	656000	3840	DFT-s-OFDM QPSK	12@6	25.68	23.68	0.2333
77	30	10	656000	3840	DFT-s-OFDM QPSK	1@1	25.61	23.61	0.2296
77	30	10	656000	3840	DFT-s-OFDM QPSK	1@22	25.85	23.85	0.2427
77	30	10	656000	3840	DFT-s-OFDM 16 QAM	12@6	24.75	22.75	0.1884
77	30	10	656000	3840	DFT-s-OFDM 16 QAM	1@1	24.45	22.45	0.1758
77	30	10	656000	3840	DFT-s-OFDM 16 QAM	1@22	24.53	22.53	0.1791
77	30	10	656000	3840	DFT-s-OFDM 64 QAM	12@6	23.31	21.31	0.1352
77	30	10	656000	3840	DFT-s-OFDM 64 QAM	1@1	23.12	21.12	0.1294

77	30	10	656000	3840	DFT-s-OFDM 64 QAM	1@22	23.19	21.19	0.1315
77	30	10	656000	3840	DFT-s-OFDM 256 QAM	12@6	21.14	19.14	0.0820
77	30	10	656000	3840	DFT-s-OFDM 256 QAM	1@1	20.63	18.63	0.0729
77	30	10	656000	3840	DFT-s-OFDM 256 QAM	1@22	21.28	19.28	0.0847
77	30	10	656000	3840	CP-OFDM QPSK	12@6	24.17	22.17	0.1648
77	30	10	656000	3840	CP-OFDM QPSK	1@1	23.82	21.82	0.1521
77	30	10	656000	3840	CP-OFDM QPSK	1@22	23.82	21.82	0.1521
77	30	10	665000	3975	DFT-s-OFDM PI/2 BPSK	12@6	25.73	23.73	0.2360
77	30	10	665000	3975	DFT-s-OFDM PI/2 BPSK	1@1	25.62	23.62	0.2301
77	30	10	665000	3975	DFT-s-OFDM PI/2 BPSK	1@22	25.58	23.58	0.2280
77	30	10	665000	3975	DFT-s-OFDM QPSK	12@6	25.75	23.75	0.2371
77	30	10	665000	3975	DFT-s-OFDM QPSK	1@1	25.88	23.88	0.2443
77	30	10	665000	3975	DFT-s-OFDM QPSK	1@22	25.78	23.78	0.2388
77	30	10	665000	3975	DFT-s-OFDM 16 QAM	12@6	24.79	22.79	0.1901
77	30	10	665000	3975	DFT-s-OFDM 16 QAM	1@1	24.57	22.57	0.1807
77	30	10	665000	3975	DFT-s-OFDM 16 QAM	1@22	24.62	22.62	0.1828
77	30	10	665000	3975	DFT-s-OFDM 64 QAM	12@6	23.25	21.25	0.1334
77	30	10	665000	3975	DFT-s-OFDM 64 QAM	1@1	23.17	21.17	0.1309
77	30	10	665000	3975	DFT-s-OFDM 64 QAM	1@22	23.1	21.1	0.1288
77	30	10	665000	3975	DFT-s-OFDM 256 QAM	12@6	21.2	19.2	0.0832
77	30	10	665000	3975	DFT-s-OFDM 256 QAM	1@1	20.66	18.66	0.0735
77	30	10	665000	3975	DFT-s-OFDM 256 QAM	1@22	20.64	18.64	0.0731
77	30	10	665000	3975	CP-OFDM QPSK	12@6	24.32	22.32	0.1706
77	30	10	665000	3975	CP-OFDM QPSK	1@1	23.94	21.94	0.1563
77	30	10	665000	3975	CP-OFDM QPSK	1@22	23.85	21.85	0.1531
77	30	15	647168	3707.52	DFT-s-OFDM PI/2 BPSK	18@9	25.93	23.93	0.2472
77	30	15	647168	3707.52	DFT-s-OFDM PI/2 BPSK	1@1	25.75	23.75	0.2371
77	30	15	647168	3707.52	DFT-s-OFDM PI/2 BPSK	1@36	25.86	23.86	0.2432
77	30	15	647168	3707.52	DFT-s-OFDM QPSK	18@9	25.98	23.98	0.2500
77	30	15	647168	3707.52	DFT-s-OFDM QPSK	1@1	25.82	23.82	0.2410
77	30	15	647168	3707.52	DFT-s-OFDM QPSK	1@36	25.83	23.83	0.2415
77	30	15	647168	3707.52	DFT-s-OFDM 16 QAM	18@9	24.9	22.9	0.1950
77	30	15	647168	3707.52	DFT-s-OFDM 16 QAM	1@1	24.68	22.68	0.1854
77	30	15	647168	3707.52	DFT-s-OFDM 16 QAM	1@36	24.81	22.81	0.1910
77	30	15	647168	3707.52	DFT-s-OFDM 64 QAM	18@9	23.45	21.45	0.1396
77	30	15	647168	3707.52	DFT-s-OFDM 64 QAM	1@1	23.26	21.26	0.1337

77	30	15	647168	3707.52	DFT-s-OFDM 64 QAM	1@36	23.31	21.31	0.1352
77	30	15	647168	3707.52	DFT-s-OFDM 256 QAM	18@9	21.4	19.4	0.0871
77	30	15	647168	3707.52	DFT-s-OFDM 256 QAM	1@1	20.77	18.77	0.0753
77	30	15	647168	3707.52	DFT-s-OFDM 256 QAM	1@36	20.81	18.81	0.0760
77	30	15	647168	3707.52	CP-OFDM QPSK	19@9	24.36	22.36	0.1722
77	30	15	647168	3707.52	CP-OFDM QPSK	1@1	24.24	22.24	0.1675
77	30	15	647168	3707.52	CP-OFDM QPSK	1@36	24.04	22.04	0.1600
77	30	15	656000	3840	DFT-s-OFDM PI/2 BPSK	18@9	25.75	23.75	0.2371
77	30	15	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	25.59	23.59	0.2286
77	30	15	656000	3840	DFT-s-OFDM PI/2 BPSK	1@36	25.61	23.61	0.2296
77	30	15	656000	3840	DFT-s-OFDM QPSK	18@9	25.73	23.73	0.2360
77	30	15	656000	3840	DFT-s-OFDM QPSK	1@1	25.7	23.7	0.2344
77	30	15	656000	3840	DFT-s-OFDM QPSK	1@36	25.7	23.7	0.2344
77	30	15	656000	3840	DFT-s-OFDM 16 QAM	18@9	24.72	22.72	0.1871
77	30	15	656000	3840	DFT-s-OFDM 16 QAM	1@1	24.42	22.42	0.1746
77	30	15	656000	3840	DFT-s-OFDM 16 QAM	1@36	24.55	22.55	0.1799
77	30	15	656000	3840	DFT-s-OFDM 64 QAM	18@9	23.28	21.28	0.1343
77	30	15	656000	3840	DFT-s-OFDM 64 QAM	1@1	23.14	21.14	0.1300
77	30	15	656000	3840	DFT-s-OFDM 64 QAM	1@36	23.22	21.22	0.1324
77	30	15	656000	3840	DFT-s-OFDM 256 QAM	18@9	21.24	19.24	0.0839
77	30	15	656000	3840	DFT-s-OFDM 256 QAM	1@1	20.93	18.93	0.0782
77	30	15	656000	3840	DFT-s-OFDM 256 QAM	1@36	20.73	18.73	0.0746
77	30	15	656000	3840	CP-OFDM QPSK	19@9	24.19	22.19	0.1656
77	30	15	656000	3840	CP-OFDM QPSK	1@1	23.94	21.94	0.1563
77	30	15	656000	3840	CP-OFDM QPSK	1@36	23.96	21.96	0.1570
77	30	15	664832	3972.48	DFT-s-OFDM PI/2 BPSK	18@9	25.74	23.74	0.2366
77	30	15	664832	3972.48	DFT-s-OFDM PI/2 BPSK	1@1	25.61	23.61	0.2296
77	30	15	664832	3972.48	DFT-s-OFDM PI/2 BPSK	1@36	25.51	23.51	0.2244
77	30	15	664832	3972.48	DFT-s-OFDM QPSK	18@9	25.74	23.74	0.2366
77	30	15	664832	3972.48	DFT-s-OFDM QPSK	1@1	25.83	23.83	0.2415
77	30	15	664832	3972.48	DFT-s-OFDM QPSK	1@36	25.57	23.57	0.2275
77	30	15	664832	3972.48	DFT-s-OFDM 16 QAM	18@9	24.76	22.76	0.1888
77	30	15	664832	3972.48	DFT-s-OFDM 16 QAM	1@1	24.51	22.51	0.1782
77	30	15	664832	3972.48	DFT-s-OFDM 16 QAM	1@36	24.44	22.44	0.1754
77	30	15	664832	3972.48	DFT-s-OFDM 64 QAM	18@9	23.31	21.31	0.1352
77	30	15	664832	3972.48	DFT-s-OFDM 64 QAM	1@1	23.07	21.07	0.1279

77	30	15	664832	3972.48	DFT-s-OFDM 64 QAM	1@36	22.94	20.94	0.1242
77	30	15	664832	3972.48	DFT-s-OFDM 256 QAM	18@9	21.28	19.28	0.0847
77	30	15	664832	3972.48	DFT-s-OFDM 256 QAM	1@1	20.71	18.71	0.0743
77	30	15	664832	3972.48	DFT-s-OFDM 256 QAM	1@36	20.87	18.87	0.0771
77	30	15	664832	3972.48	CP-OFDM QPSK	19@9	24.22	22.22	0.1667
77	30	15	664832	3972.48	CP-OFDM QPSK	1@1	23.96	21.96	0.1570
77	30	15	664832	3972.48	CP-OFDM QPSK	1@36	24.11	22.11	0.1626
77	30	20	647334	3710.01	DFT-s-OFDM PI/2 BPSK	25@12	25.95	23.95	0.2483
77	30	20	647334	3710.01	DFT-s-OFDM PI/2 BPSK	1@1	25.68	23.68	0.2333
77	30	20	647334	3710.01	DFT-s-OFDM PI/2 BPSK	1@49	25.78	23.78	0.2388
77	30	20	647334	3710.01	DFT-s-OFDM QPSK	25@12	25.96	23.96	0.2489
77	30	20	647334	3710.01	DFT-s-OFDM QPSK	1@1	25.8	23.8	0.2399
77	30	20	647334	3710.01	DFT-s-OFDM QPSK	1@49	25.79	23.79	0.2393
77	30	20	647334	3710.01	DFT-s-OFDM 16 QAM	25@12	25.04	23.04	0.2014
77	30	20	647334	3710.01	DFT-s-OFDM 16 QAM	1@1	24.64	22.64	0.1837
77	30	20	647334	3710.01	DFT-s-OFDM 16 QAM	1@49	24.77	22.77	0.1892
77	30	20	647334	3710.01	DFT-s-OFDM 64 QAM	25@12	23.44	21.44	0.1393
77	30	20	647334	3710.01	DFT-s-OFDM 64 QAM	1@1	23.31	21.31	0.1352
77	30	20	647334	3710.01	DFT-s-OFDM 64 QAM	1@49	23.31	21.31	0.1352
77	30	20	647334	3710.01	DFT-s-OFDM 256 QAM	25@12	21.38	19.38	0.0867
77	30	20	647334	3710.01	DFT-s-OFDM 256 QAM	1@1	20.81	18.81	0.0760
77	30	20	647334	3710.01	DFT-s-OFDM 256 QAM	1@49	20.84	18.84	0.0766
77	30	20	647334	3710.01	CP-OFDM QPSK	25@12	24.42	22.42	0.1746
77	30	20	647334	3710.01	CP-OFDM QPSK	1@1	24.07	22.07	0.1611
77	30	20	647334	3710.01	CP-OFDM QPSK	1@49	24.21	22.21	0.1663
77	30	20	656000	3840	DFT-s-OFDM PI/2 BPSK	25@12	25.72	23.72	0.2355
77	30	20	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	25.66	23.66	0.2323
77	30	20	656000	3840	DFT-s-OFDM PI/2 BPSK	1@49	25.61	23.61	0.2296
77	30	20	656000	3840	DFT-s-OFDM QPSK	25@12	25.79	23.79	0.2393
77	30	20	656000	3840	DFT-s-OFDM QPSK	1@1	25.64	23.64	0.2312
77	30	20	656000	3840	DFT-s-OFDM QPSK	1@49	25.68	23.68	0.2333
77	30	20	656000	3840	DFT-s-OFDM 16 QAM	25@12	24.81	22.81	0.1910
77	30	20	656000	3840	DFT-s-OFDM 16 QAM	1@1	24.39	22.39	0.1734
77	30	20	656000	3840	DFT-s-OFDM 16 QAM	1@49	24.45	22.45	0.1758
77	30	20	656000	3840	DFT-s-OFDM 64 QAM	25@12	23.31	21.31	0.1352
77	30	20	656000	3840	DFT-s-OFDM 64 QAM	1@1	22.96	20.96	0.1247

77	30	20	656000	3840	DFT-s-OFDM 64 QAM	1@49	23.15	21.15	0.1303
77	30	20	656000	3840	DFT-s-OFDM 256 QAM	25@12	21.23	19.23	0.0838
77	30	20	656000	3840	DFT-s-OFDM 256 QAM	1@1	20.89	18.89	0.0774
77	30	20	656000	3840	DFT-s-OFDM 256 QAM	1@49	20.96	18.96	0.0787
77	30	20	656000	3840	CP-OFDM QPSK	25@12	24.24	22.24	0.1675
77	30	20	656000	3840	CP-OFDM QPSK	1@1	23.85	21.85	0.1531
77	30	20	656000	3840	CP-OFDM QPSK	1@49	24.25	22.25	0.1679
77	30	20	664666	3969.99	DFT-s-OFDM PI/2 BPSK	25@12	25.79	23.79	0.2393
77	30	20	664666	3969.99	DFT-s-OFDM PI/2 BPSK	1@1	25.63	23.63	0.2307
77	30	20	664666	3969.99	DFT-s-OFDM PI/2 BPSK	1@49	25.5	23.5	0.2239
77	30	20	664666	3969.99	DFT-s-OFDM QPSK	25@12	25.81	23.81	0.2404
77	30	20	664666	3969.99	DFT-s-OFDM QPSK	1@1	25.83	23.83	0.2415
77	30	20	664666	3969.99	DFT-s-OFDM QPSK	1@49	25.59	23.59	0.2286
77	30	20	664666	3969.99	DFT-s-OFDM 16 QAM	25@12	24.87	22.87	0.1936
77	30	20	664666	3969.99	DFT-s-OFDM 16 QAM	1@1	24.65	22.65	0.1841
77	30	20	664666	3969.99	DFT-s-OFDM 16 QAM	1@49	24.42	22.42	0.1746
77	30	20	664666	3969.99	DFT-s-OFDM 64 QAM	25@12	23.33	21.33	0.1358
77	30	20	664666	3969.99	DFT-s-OFDM 64 QAM	1@1	23.17	21.17	0.1309
77	30	20	664666	3969.99	DFT-s-OFDM 64 QAM	1@49	22.95	20.95	0.1245
77	30	20	664666	3969.99	DFT-s-OFDM 256 QAM	25@12	21.27	19.27	0.0845
77	30	20	664666	3969.99	DFT-s-OFDM 256 QAM	1@1	20.75	18.75	0.0750
77	30	20	664666	3969.99	DFT-s-OFDM 256 QAM	1@49	20.61	18.61	0.0726
77	30	20	664666	3969.99	CP-OFDM QPSK	25@12	24.29	22.29	0.1694
77	30	20	664666	3969.99	CP-OFDM QPSK	1@1	24.23	22.23	0.1671
77	30	20	664666	3969.99	CP-OFDM QPSK	1@49	24.14	22.14	0.1637
77	30	25	647500	3712.5	DFT-s-OFDM PI/2 BPSK	32@16	26	24	0.2512
77	30	25	647500	3712.5	DFT-s-OFDM PI/2 BPSK	1@1	25.68	23.68	0.2333
77	30	25	647500	3712.5	DFT-s-OFDM PI/2 BPSK	1@63	25.73	23.73	0.2360
77	30	25	647500	3712.5	DFT-s-OFDM QPSK	32@16	25.99	23.99	0.2506
77	30	25	647500	3712.5	DFT-s-OFDM QPSK	1@1	26	24	0.2512
77	30	25	647500	3712.5	DFT-s-OFDM QPSK	1@63	26.2	24.2	0.2630
77	30	25	647500	3712.5	DFT-s-OFDM 16 QAM	32@16	24.99	22.99	0.1991
77	30	25	647500	3712.5	DFT-s-OFDM 16 QAM	1@1	24.6	22.6	0.1820
77	30	25	647500	3712.5	DFT-s-OFDM 16 QAM	1@63	24.63	22.63	0.1832
77	30	25	647500	3712.5	DFT-s-OFDM 64 QAM	32@16	23.49	21.49	0.1409
77	30	25	647500	3712.5	DFT-s-OFDM 64 QAM	1@1	23.16	21.16	0.1306

77	30	25	647500	3712.5	DFT-s-OFDM 64 QAM	1@63	23.22	21.22	0.1324
77	30	25	647500	3712.5	DFT-s-OFDM 256 QAM	32@16	21.48	19.48	0.0887
77	30	25	647500	3712.5	DFT-s-OFDM 256 QAM	1@1	20.72	18.72	0.0745
77	30	25	647500	3712.5	DFT-s-OFDM 256 QAM	1@63	20.83	18.83	0.0764
77	30	25	647500	3712.5	CP-OFDM QPSK	33@16	24.43	22.43	0.1750
77	30	25	647500	3712.5	CP-OFDM QPSK	1@1	23.97	21.97	0.1574
77	30	25	647500	3712.5	CP-OFDM QPSK	1@63	24.15	22.15	0.1641
77	30	25	656000	3840	DFT-s-OFDM PI/2 BPSK	32@16	25.8	23.8	0.2399
77	30	25	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	25.51	23.51	0.2244
77	30	25	656000	3840	DFT-s-OFDM PI/2 BPSK	1@63	25.5	23.5	0.2239
77	30	25	656000	3840	DFT-s-OFDM QPSK	32@16	25.82	23.82	0.2410
77	30	25	656000	3840	DFT-s-OFDM QPSK	1@1	25.57	23.57	0.2275
77	30	25	656000	3840	DFT-s-OFDM QPSK	1@63	25.69	23.69	0.2339
77	30	25	656000	3840	DFT-s-OFDM 16 QAM	32@16	24.87	22.87	0.1936
77	30	25	656000	3840	DFT-s-OFDM 16 QAM	1@1	24.39	22.39	0.1734
77	30	25	656000	3840	DFT-s-OFDM 16 QAM	1@63	24.38	22.38	0.1730
77	30	25	656000	3840	DFT-s-OFDM 64 QAM	32@16	23.37	21.37	0.1371
77	30	25	656000	3840	DFT-s-OFDM 64 QAM	1@1	22.99	20.99	0.1256
77	30	25	656000	3840	DFT-s-OFDM 64 QAM	1@63	23	21	0.1259
77	30	25	656000	3840	DFT-s-OFDM 256 QAM	32@16	21.32	19.32	0.0855
77	30	25	656000	3840	DFT-s-OFDM 256 QAM	1@1	20.95	18.95	0.0785
77	30	25	656000	3840	DFT-s-OFDM 256 QAM	1@63	20.65	18.65	0.0733
77	30	25	656000	3840	CP-OFDM QPSK	33@16	24.22	22.22	0.1667
77	30	25	656000	3840	CP-OFDM QPSK	1@1	23.9	21.9	0.1549
77	30	25	656000	3840	CP-OFDM QPSK	1@63	24.12	22.12	0.1629
77	30	25	664500	3967.5	DFT-s-OFDM PI/2 BPSK	32@16	25.8	23.8	0.2399
77	30	25	664500	3967.5	DFT-s-OFDM PI/2 BPSK	1@1	25.62	23.62	0.2301
77	30	25	664500	3967.5	DFT-s-OFDM PI/2 BPSK	1@63	25.45	23.45	0.2213
77	30	25	664500	3967.5	DFT-s-OFDM QPSK	32@16	25.82	23.82	0.2410
77	30	25	664500	3967.5	DFT-s-OFDM QPSK	1@1	25.82	23.82	0.2410
77	30	25	664500	3967.5	DFT-s-OFDM QPSK	1@63	25.56	23.56	0.2270
77	30	25	664500	3967.5	DFT-s-OFDM 16 QAM	32@16	24.89	22.89	0.1945
77	30	25	664500	3967.5	DFT-s-OFDM 16 QAM	1@1	24.47	22.47	0.1766
77	30	25	664500	3967.5	DFT-s-OFDM 16 QAM	1@63	24.34	22.34	0.1714
77	30	25	664500	3967.5	DFT-s-OFDM 64 QAM	32@16	23.3	21.3	0.1349
77	30	25	664500	3967.5	DFT-s-OFDM 64 QAM	1@1	23.16	21.16	0.1306

77	30	25	664500	3967.5	DFT-s-OFDM 64 QAM	1@63	23.01	21.01	0.1262
77	30	25	664500	3967.5	DFT-s-OFDM 256 QAM	32@16	21.37	19.37	0.0865
77	30	25	664500	3967.5	DFT-s-OFDM 256 QAM	1@1	20.79	18.79	0.0757
77	30	25	664500	3967.5	DFT-s-OFDM 256 QAM	1@63	20.6	18.6	0.0724
77	30	25	664500	3967.5	CP-OFDM QPSK	33@16	24.22	22.22	0.1667
77	30	25	664500	3967.5	CP-OFDM QPSK	1@1	24.07	22.07	0.1611
77	30	25	664500	3967.5	CP-OFDM QPSK	1@63	23.77	21.77	0.1503
77	30	30	647668	3715.02	DFT-s-OFDM PI/2 BPSK	36@18	26.01	24.01	0.2518
77	30	30	647668	3715.02	DFT-s-OFDM PI/2 BPSK	1@1	25.56	23.56	0.2270
77	30	30	647668	3715.02	DFT-s-OFDM PI/2 BPSK	1@76	25.59	23.59	0.2286
77	30	30	647668	3715.02	DFT-s-OFDM QPSK	36@18	26.01	24.01	0.2518
77	30	30	647668	3715.02	DFT-s-OFDM QPSK	1@1	25.74	23.74	0.2366
77	30	30	647668	3715.02	DFT-s-OFDM QPSK	1@76	25.76	23.76	0.2377
77	30	30	647668	3715.02	DFT-s-OFDM 16 QAM	36@18	24.93	22.93	0.1963
77	30	30	647668	3715.02	DFT-s-OFDM 16 QAM	1@1	24.54	22.54	0.1795
77	30	30	647668	3715.02	DFT-s-OFDM 16 QAM	1@76	24.58	22.58	0.1811
77	30	30	647668	3715.02	DFT-s-OFDM 64 QAM	36@18	23.55	21.55	0.1429
77	30	30	647668	3715.02	DFT-s-OFDM 64 QAM	1@1	23.09	21.09	0.1285
77	30	30	647668	3715.02	DFT-s-OFDM 64 QAM	1@76	23.11	21.11	0.1291
77	30	30	647668	3715.02	DFT-s-OFDM 256 QAM	36@18	21.47	19.47	0.0885
77	30	30	647668	3715.02	DFT-s-OFDM 256 QAM	1@1	20.61	18.61	0.0726
77	30	30	647668	3715.02	DFT-s-OFDM 256 QAM	1@76	20.98	18.98	0.0791
77	30	30	647668	3715.02	CP-OFDM QPSK	39@19	24.47	22.47	0.1766
77	30	30	647668	3715.02	CP-OFDM QPSK	1@1	23.99	21.99	0.1581
77	30	30	647668	3715.02	CP-OFDM QPSK	1@76	24.23	22.23	0.1671
77	30	30	656000	3840	DFT-s-OFDM PI/2 BPSK	36@18	25.8	23.8	0.2399
77	30	30	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	25.47	23.47	0.2223
77	30	30	656000	3840	DFT-s-OFDM PI/2 BPSK	1@76	25.4	23.4	0.2188
77	30	30	656000	3840	DFT-s-OFDM QPSK	36@18	25.87	23.87	0.2438
77	30	30	656000	3840	DFT-s-OFDM QPSK	1@1	26.05	24.05	0.2541
77	30	30	656000	3840	DFT-s-OFDM QPSK	1@76	25.7	23.7	0.2344
77	30	30	656000	3840	DFT-s-OFDM 16 QAM	36@18	24.75	22.75	0.1884
77	30	30	656000	3840	DFT-s-OFDM 16 QAM	1@1	24.32	22.32	0.1706
77	30	30	656000	3840	DFT-s-OFDM 16 QAM	1@76	24.39	22.39	0.1734
77	30	30	656000	3840	DFT-s-OFDM 64 QAM	36@18	23.35	21.35	0.1365
77	30	30	656000	3840	DFT-s-OFDM 64 QAM	1@1	23.02	21.02	0.1265

77	30	30	656000	3840	DFT-s-OFDM 64 QAM	1@76	23.01	21.01	0.1262
77	30	30	656000	3840	DFT-s-OFDM 256 QAM	36@18	21.36	19.36	0.0863
77	30	30	656000	3840	DFT-s-OFDM 256 QAM	1@1	20.62	18.62	0.0728
77	30	30	656000	3840	DFT-s-OFDM 256 QAM	1@76	20.54	18.54	0.0714
77	30	30	656000	3840	CP-OFDM QPSK	39@19	24.33	22.33	0.1710
77	30	30	656000	3840	CP-OFDM QPSK	1@1	23.91	21.91	0.1552
77	30	30	656000	3840	CP-OFDM QPSK	1@76	23.81	21.81	0.1517
77	30	30	664332	3964.98	DFT-s-OFDM PI/2 BPSK	36@18	25.76	23.76	0.2377
77	30	30	664332	3964.98	DFT-s-OFDM PI/2 BPSK	1@1	25.57	23.57	0.2275
77	30	30	664332	3964.98	DFT-s-OFDM PI/2 BPSK	1@76	25.31	23.31	0.2143
77	30	30	664332	3964.98	DFT-s-OFDM QPSK	36@18	25.85	23.85	0.2427
77	30	30	664332	3964.98	DFT-s-OFDM QPSK	1@1	25.71	23.71	0.2350
77	30	30	664332	3964.98	DFT-s-OFDM QPSK	1@76	25.49	23.49	0.2234
77	30	30	664332	3964.98	DFT-s-OFDM 16 QAM	36@18	24.77	22.77	0.1892
77	30	30	664332	3964.98	DFT-s-OFDM 16 QAM	1@1	24.41	22.41	0.1742
77	30	30	664332	3964.98	DFT-s-OFDM 16 QAM	1@76	24.17	22.17	0.1648
77	30	30	664332	3964.98	DFT-s-OFDM 64 QAM	36@18	23.35	21.35	0.1365
77	30	30	664332	3964.98	DFT-s-OFDM 64 QAM	1@1	23.05	21.05	0.1274
77	30	30	664332	3964.98	DFT-s-OFDM 64 QAM	1@76	22.77	20.77	0.1194
77	30	30	664332	3964.98	DFT-s-OFDM 256 QAM	36@18	21.33	19.33	0.0857
77	30	30	664332	3964.98	DFT-s-OFDM 256 QAM	1@1	20.65	18.65	0.0733
77	30	30	664332	3964.98	DFT-s-OFDM 256 QAM	1@76	20.42	18.42	0.0695
77	30	30	664332	3964.98	CP-OFDM QPSK	39@19	24.32	22.32	0.1706
77	30	30	664332	3964.98	CP-OFDM QPSK	1@1	23.86	21.86	0.1535
77	30	30	664332	3964.98	CP-OFDM QPSK	1@76	23.6	21.6	0.1445
77	30	40	648000	3720	DFT-s-OFDM PI/2 BPSK	50@25	25.93	23.93	0.2472
77	30	40	648000	3720	DFT-s-OFDM PI/2 BPSK	1@1	25.29	23.29	0.2133
77	30	40	648000	3720	DFT-s-OFDM PI/2 BPSK	1@104	25.38	23.38	0.2178
77	30	40	648000	3720	DFT-s-OFDM QPSK	50@25	25.96	23.96	0.2489
77	30	40	648000	3720	DFT-s-OFDM QPSK	1@1	25.48	23.48	0.2228
77	30	40	648000	3720	DFT-s-OFDM QPSK	1@104	25.46	23.46	0.2218
77	30	40	648000	3720	DFT-s-OFDM 16 QAM	50@25	24.95	22.95	0.1972
77	30	40	648000	3720	DFT-s-OFDM 16 QAM	1@1	24.3	22.3	0.1698
77	30	40	648000	3720	DFT-s-OFDM 16 QAM	1@104	24.31	22.31	0.1702
77	30	40	648000	3720	DFT-s-OFDM 64 QAM	50@25	23.43	21.43	0.1390
77	30	40	648000	3720	DFT-s-OFDM 64 QAM	1@1	22.86	20.86	0.1219

77	30	40	648000	3720	DFT-s-OFDM 64 QAM	1@104	22.82	20.82	0.1208
77	30	40	648000	3720	DFT-s-OFDM 256 QAM	50@25	21.42	19.42	0.0875
77	30	40	648000	3720	DFT-s-OFDM 256 QAM	1@1	20.48	18.48	0.0705
77	30	40	648000	3720	DFT-s-OFDM 256 QAM	1@104	20.44	18.44	0.0698
77	30	40	648000	3720	CP-OFDM QPSK	53@26	24.38	22.38	0.1730
77	30	40	648000	3720	CP-OFDM QPSK	1@1	23.76	21.76	0.1500
77	30	40	648000	3720	CP-OFDM QPSK	1@104	23.85	21.85	0.1531
77	30	40	656000	3840	DFT-s-OFDM PI/2 BPSK	50@25	25.75	23.75	0.2371
77	30	40	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	25.26	23.26	0.2118
77	30	40	656000	3840	DFT-s-OFDM PI/2 BPSK	1@104	25.23	23.23	0.2104
77	30	40	656000	3840	DFT-s-OFDM QPSK	50@25	25.83	23.83	0.2415
77	30	40	656000	3840	DFT-s-OFDM QPSK	1@1	25.43	23.43	0.2203
77	30	40	656000	3840	DFT-s-OFDM QPSK	1@104	25.47	23.47	0.2223
77	30	40	656000	3840	DFT-s-OFDM 16 QAM	50@25	24.84	22.84	0.1923
77	30	40	656000	3840	DFT-s-OFDM 16 QAM	1@1	24.14	22.14	0.1637
77	30	40	656000	3840	DFT-s-OFDM 16 QAM	1@104	24.16	22.16	0.1644
77	30	40	656000	3840	DFT-s-OFDM 64 QAM	50@25	23.3	21.3	0.1349
77	30	40	656000	3840	DFT-s-OFDM 64 QAM	1@1	23.03	21.03	0.1268
77	30	40	656000	3840	DFT-s-OFDM 64 QAM	1@104	22.85	20.85	0.1216
77	30	40	656000	3840	DFT-s-OFDM 256 QAM	50@25	21.32	19.32	0.0855
77	30	40	656000	3840	DFT-s-OFDM 256 QAM	1@1	20.68	18.68	0.0738
77	30	40	656000	3840	DFT-s-OFDM 256 QAM	1@104	20.38	18.38	0.0689
77	30	40	656000	3840	CP-OFDM QPSK	53@26	24.28	22.28	0.1690
77	30	40	656000	3840	CP-OFDM QPSK	1@1	23.66	21.66	0.1466
77	30	40	656000	3840	CP-OFDM QPSK	1@104	23.72	21.72	0.1486
77	30	40	664000	3960	DFT-s-OFDM PI/2 BPSK	50@25	25.9	23.9	0.2455
77	30	40	664000	3960	DFT-s-OFDM PI/2 BPSK	1@1	25.38	23.38	0.2178
77	30	40	664000	3960	DFT-s-OFDM PI/2 BPSK	1@104	25.14	23.14	0.2061
77	30	40	664000	3960	DFT-s-OFDM QPSK	50@25	25.91	23.91	0.2460
77	30	40	664000	3960	DFT-s-OFDM QPSK	1@1	25.47	23.47	0.2223
77	30	40	664000	3960	DFT-s-OFDM QPSK	1@104	25.37	23.37	0.2173
77	30	40	664000	3960	DFT-s-OFDM 16 QAM	50@25	24.89	22.89	0.1945
77	30	40	664000	3960	DFT-s-OFDM 16 QAM	1@1	24.29	22.29	0.1694
77	30	40	664000	3960	DFT-s-OFDM 16 QAM	1@104	24.09	22.09	0.1618
77	30	40	664000	3960	DFT-s-OFDM 64 QAM	50@25	23.38	21.38	0.1374
77	30	40	664000	3960	DFT-s-OFDM 64 QAM	1@1	22.93	20.93	0.1239

77	30	40	664000	3960	DFT-s-OFDM 64 QAM	1@104	22.64	20.64	0.1159
77	30	40	664000	3960	DFT-s-OFDM 256 QAM	50@25	21.41	19.41	0.0873
77	30	40	664000	3960	DFT-s-OFDM 256 QAM	1@1	20.46	18.46	0.0701
77	30	40	664000	3960	DFT-s-OFDM 256 QAM	1@104	20.6	18.6	0.0724
77	30	40	664000	3960	CP-OFDM QPSK	53@26	24.37	22.37	0.1726
77	30	40	664000	3960	CP-OFDM QPSK	1@1	23.57	21.57	0.1435
77	30	40	664000	3960	CP-OFDM QPSK	1@104	23.6	21.6	0.1445
77	30	50	648334	3725.01	DFT-s-OFDM PI/2 BPSK	64@32	26	24	0.2512
77	30	50	648334	3725.01	DFT-s-OFDM PI/2 BPSK	1@1	25.6	23.6	0.2291
77	30	50	648334	3725.01	DFT-s-OFDM PI/2 BPSK	1@131	25.64	23.64	0.2312
77	30	50	648334	3725.01	DFT-s-OFDM QPSK	64@32	26.04	24.04	0.2535
77	30	50	648334	3725.01	DFT-s-OFDM QPSK	1@1	25.72	23.72	0.2355
77	30	50	648334	3725.01	DFT-s-OFDM QPSK	1@131	25.69	23.69	0.2339
77	30	50	648334	3725.01	DFT-s-OFDM 16 QAM	64@32	24.99	22.99	0.1991
77	30	50	648334	3725.01	DFT-s-OFDM 16 QAM	1@1	24.55	22.55	0.1799
77	30	50	648334	3725.01	DFT-s-OFDM 16 QAM	1@131	24.52	22.52	0.1786
77	30	50	648334	3725.01	DFT-s-OFDM 64 QAM	64@32	23.49	21.49	0.1409
77	30	50	648334	3725.01	DFT-s-OFDM 64 QAM	1@1	23.05	21.05	0.1274
77	30	50	648334	3725.01	DFT-s-OFDM 64 QAM	1@131	23.11	21.11	0.1291
77	30	50	648334	3725.01	DFT-s-OFDM 256 QAM	64@32	21.49	19.49	0.0889
77	30	50	648334	3725.01	DFT-s-OFDM 256 QAM	1@1	20.99	18.99	0.0793
77	30	50	648334	3725.01	DFT-s-OFDM 256 QAM	1@131	21	19	0.0794
77	30	50	648334	3725.01	CP-OFDM QPSK	67@33	24.49	22.49	0.1774
77	30	50	648334	3725.01	CP-OFDM QPSK	1@1	24.1	22.1	0.1622
77	30	50	648334	3725.01	CP-OFDM QPSK	1@131	24.18	22.18	0.1652
77	30	50	656000	3840	DFT-s-OFDM PI/2 BPSK	64@32	25.83	23.83	0.2415
77	30	50	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	25.43	23.43	0.2203
77	30	50	656000	3840	DFT-s-OFDM PI/2 BPSK	1@131	25.49	23.49	0.2234
77	30	50	656000	3840	DFT-s-OFDM QPSK	64@32	25.86	23.86	0.2432
77	30	50	656000	3840	DFT-s-OFDM QPSK	1@1	25.69	23.69	0.2339
77	30	50	656000	3840	DFT-s-OFDM QPSK	1@131	25.61	23.61	0.2296
77	30	50	656000	3840	DFT-s-OFDM 16 QAM	64@32	24.86	22.86	0.1932
77	30	50	656000	3840	DFT-s-OFDM 16 QAM	1@1	24.23	22.23	0.1671
77	30	50	656000	3840	DFT-s-OFDM 16 QAM	1@131	24.44	22.44	0.1754
77	30	50	656000	3840	DFT-s-OFDM 64 QAM	64@32	23.39	21.39	0.1377
77	30	50	656000	3840	DFT-s-OFDM 64 QAM	1@1	23.03	21.03	0.1268

77	30	50	656000	3840	DFT-s-OFDM 64 QAM	1@131	23.07	21.07	0.1279
77	30	50	656000	3840	DFT-s-OFDM 256 QAM	64@32	21.37	19.37	0.0865
77	30	50	656000	3840	DFT-s-OFDM 256 QAM	1@1	20.73	18.73	0.0746
77	30	50	656000	3840	DFT-s-OFDM 256 QAM	1@131	20.94	18.94	0.0783
77	30	50	656000	3840	CP-OFDM QPSK	67@33	24.34	22.34	0.1714
77	30	50	656000	3840	CP-OFDM QPSK	1@1	23.75	21.75	0.1496
77	30	50	656000	3840	CP-OFDM QPSK	1@131	23.9	21.9	0.1549
77	30	50	663666	3954.99	DFT-s-OFDM PI/2 BPSK	64@32	25.9	23.9	0.2455
77	30	50	663666	3954.99	DFT-s-OFDM PI/2 BPSK	1@1	25.53	23.53	0.2254
77	30	50	663666	3954.99	DFT-s-OFDM PI/2 BPSK	1@131	25.34	23.34	0.2158
77	30	50	663666	3954.99	DFT-s-OFDM QPSK	64@32	25.94	23.94	0.2477
77	30	50	663666	3954.99	DFT-s-OFDM QPSK	1@1	25.64	23.64	0.2312
77	30	50	663666	3954.99	DFT-s-OFDM QPSK	1@131	25.41	23.41	0.2193
77	30	50	663666	3954.99	DFT-s-OFDM 16 QAM	64@32	24.92	22.92	0.1959
77	30	50	663666	3954.99	DFT-s-OFDM 16 QAM	1@1	24.43	22.43	0.1750
77	30	50	663666	3954.99	DFT-s-OFDM 16 QAM	1@131	24.24	22.24	0.1675
77	30	50	663666	3954.99	DFT-s-OFDM 64 QAM	64@32	23.38	21.38	0.1374
77	30	50	663666	3954.99	DFT-s-OFDM 64 QAM	1@1	23.1	21.1	0.1288
77	30	50	663666	3954.99	DFT-s-OFDM 64 QAM	1@131	22.9	20.9	0.1230
77	30	50	663666	3954.99	DFT-s-OFDM 256 QAM	64@32	21.43	19.43	0.0877
77	30	50	663666	3954.99	DFT-s-OFDM 256 QAM	1@1	20.98	18.98	0.0791
77	30	50	663666	3954.99	DFT-s-OFDM 256 QAM	1@131	20.44	18.44	0.0698
77	30	50	663666	3954.99	CP-OFDM QPSK	67@33	24.4	22.4	0.1738
77	30	50	663666	3954.99	CP-OFDM QPSK	1@1	23.82	21.82	0.1521
77	30	50	663666	3954.99	CP-OFDM QPSK	1@131	23.63	21.63	0.1455
77	30	60	648668	3730.02	DFT-s-OFDM PI/2 BPSK	81@40	26	24	0.2512
77	30	60	648668	3730.02	DFT-s-OFDM PI/2 BPSK	1@1	25.48	23.48	0.2228
77	30	60	648668	3730.02	DFT-s-OFDM PI/2 BPSK	1@160	25.5	23.5	0.2239
77	30	60	648668	3730.02	DFT-s-OFDM QPSK	81@40	26.04	24.04	0.2535
77	30	60	648668	3730.02	DFT-s-OFDM QPSK	1@1	25.9	23.9	0.2455
77	30	60	648668	3730.02	DFT-s-OFDM QPSK	1@160	26.03	24.03	0.2529
77	30	60	648668	3730.02	DFT-s-OFDM 16 QAM	81@40	25.05	23.05	0.2018
77	30	60	648668	3730.02	DFT-s-OFDM 16 QAM	1@1	24.47	22.47	0.1766
77	30	60	648668	3730.02	DFT-s-OFDM 16 QAM	1@160	24.28	22.28	0.1690
77	30	60	648668	3730.02	DFT-s-OFDM 64 QAM	81@40	23.51	21.51	0.1416
77	30	60	648668	3730.02	DFT-s-OFDM 64 QAM	1@1	23.11	21.11	0.1291

77	30	60	648668	3730.02	DFT-s-OFDM 64 QAM	1@160	23.16	21.16	0.1306
77	30	60	648668	3730.02	DFT-s-OFDM 256 QAM	81@40	21.53	19.53	0.0897
77	30	60	648668	3730.02	DFT-s-OFDM 256 QAM	1@1	21.14	19.14	0.0820
77	30	60	648668	3730.02	DFT-s-OFDM 256 QAM	1@160	21.24	19.24	0.0839
77	30	60	648668	3730.02	CP-OFDM QPSK	81@40	24.47	22.47	0.1766
77	30	60	648668	3730.02	CP-OFDM QPSK	1@1	23.94	21.94	0.1563
77	30	60	648668	3730.02	CP-OFDM QPSK	1@160	24.08	22.08	0.1614
77	30	60	656000	3840	DFT-s-OFDM PI/2 BPSK	81@40	25.78	23.78	0.2388
77	30	60	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	25.35	23.35	0.2163
77	30	60	656000	3840	DFT-s-OFDM PI/2 BPSK	1@160	25.47	23.47	0.2223
77	30	60	656000	3840	DFT-s-OFDM QPSK	81@40	25.84	23.84	0.2421
77	30	60	656000	3840	DFT-s-OFDM QPSK	1@1	25.44	23.44	0.2208
77	30	60	656000	3840	DFT-s-OFDM QPSK	1@160	25.63	23.63	0.2307
77	30	60	656000	3840	DFT-s-OFDM 16 QAM	81@40	24.84	22.84	0.1923
77	30	60	656000	3840	DFT-s-OFDM 16 QAM	1@1	24.22	22.22	0.1667
77	30	60	656000	3840	DFT-s-OFDM 16 QAM	1@160	24.39	22.39	0.1734
77	30	60	656000	3840	DFT-s-OFDM 64 QAM	81@40	23.25	21.25	0.1334
77	30	60	656000	3840	DFT-s-OFDM 64 QAM	1@1	23.02	21.02	0.1265
77	30	60	656000	3840	DFT-s-OFDM 64 QAM	1@160	22.93	20.93	0.1239
77	30	60	656000	3840	DFT-s-OFDM 256 QAM	81@40	21.32	19.32	0.0855
77	30	60	656000	3840	DFT-s-OFDM 256 QAM	1@1	20.46	18.46	0.0701
77	30	60	656000	3840	DFT-s-OFDM 256 QAM	1@160	20.61	18.61	0.0726
77	30	60	656000	3840	CP-OFDM QPSK	81@40	24.28	22.28	0.1690
77	30	60	656000	3840	CP-OFDM QPSK	1@1	23.74	21.74	0.1493
77	30	60	656000	3840	CP-OFDM QPSK	1@160	23.87	21.87	0.1538
77	30	60	663332	3949.98	DFT-s-OFDM PI/2 BPSK	81@40	25.92	23.92	0.2466
77	30	60	663332	3949.98	DFT-s-OFDM PI/2 BPSK	1@1	25.49	23.49	0.2234
77	30	60	663332	3949.98	DFT-s-OFDM PI/2 BPSK	1@160	25.3	23.3	0.2138
77	30	60	663332	3949.98	DFT-s-OFDM QPSK	81@40	25.94	23.94	0.2477
77	30	60	663332	3949.98	DFT-s-OFDM QPSK	1@1	25.68	23.68	0.2333
77	30	60	663332	3949.98	DFT-s-OFDM QPSK	1@160	25.49	23.49	0.2234
77	30	60	663332	3949.98	DFT-s-OFDM 16 QAM	81@40	24.94	22.94	0.1968
77	30	60	663332	3949.98	DFT-s-OFDM 16 QAM	1@1	24.4	22.4	0.1738
77	30	60	663332	3949.98	DFT-s-OFDM 16 QAM	1@160	24.23	22.23	0.1671
77	30	60	663332	3949.98	DFT-s-OFDM 64 QAM	81@40	23.43	21.43	0.1390
77	30	60	663332	3949.98	DFT-s-OFDM 64 QAM	1@1	23.01	21.01	0.1262

77	30	60	663332	3949.98	DFT-s-OFDM 64 QAM	1@160	22.76	20.76	0.1191
77	30	60	663332	3949.98	DFT-s-OFDM 256 QAM	81@40	21.42	19.42	0.0875
77	30	60	663332	3949.98	DFT-s-OFDM 256 QAM	1@1	20.55	18.55	0.0716
77	30	60	663332	3949.98	DFT-s-OFDM 256 QAM	1@160	20.36	18.36	0.0685
77	30	60	663332	3949.98	CP-OFDM QPSK	81@40	24.38	22.38	0.1730
77	30	60	663332	3949.98	CP-OFDM QPSK	1@1	23.88	21.88	0.1542
77	30	60	663332	3949.98	CP-OFDM QPSK	1@160	23.69	21.69	0.1476
77	30	70	649000	3735	DFT-s-OFDM PI/2 BPSK	90@45	26.09	24.09	0.2564
77	30	70	649000	3735	DFT-s-OFDM PI/2 BPSK	1@1	25.55	23.55	0.2265
77	30	70	649000	3735	DFT-s-OFDM PI/2 BPSK	1@187	25.44	23.44	0.2208
77	30	70	649000	3735	DFT-s-OFDM QPSK	90@45	26.1	24.1	0.2570
77	30	70	649000	3735	DFT-s-OFDM QPSK	1@1	25.71	23.71	0.2350
77	30	70	649000	3735	DFT-s-OFDM QPSK	1@187	25.73	23.73	0.2360
77	30	70	649000	3735	DFT-s-OFDM 16 QAM	90@45	25.06	23.06	0.2023
77	30	70	649000	3735	DFT-s-OFDM 16 QAM	1@1	24.49	22.49	0.1774
77	30	70	649000	3735	DFT-s-OFDM 16 QAM	1@187	24.36	22.36	0.1722
77	30	70	649000	3735	DFT-s-OFDM 64 QAM	90@45	23.55	21.55	0.1429
77	30	70	649000	3735	DFT-s-OFDM 64 QAM	1@1	22.98	20.98	0.1253
77	30	70	649000	3735	DFT-s-OFDM 64 QAM	1@187	22.96	20.96	0.1247
77	30	70	649000	3735	DFT-s-OFDM 256 QAM	90@45	21.53	19.53	0.0897
77	30	70	649000	3735	DFT-s-OFDM 256 QAM	1@1	20.88	18.88	0.0773
77	30	70	649000	3735	DFT-s-OFDM 256 QAM	1@187	20.42	18.42	0.0695
77	30	70	649000	3735	CP-OFDM QPSK	95@47	24.48	22.48	0.1770
77	30	70	649000	3735	CP-OFDM QPSK	1@1	23.92	21.92	0.1556
77	30	70	649000	3735	CP-OFDM QPSK	1@187	23.92	21.92	0.1556
77	30	70	656000	3840	DFT-s-OFDM PI/2 BPSK	90@45	25.78	23.78	0.2388
77	30	70	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	25.3	23.3	0.2138
77	30	70	656000	3840	DFT-s-OFDM PI/2 BPSK	1@187	25.47	23.47	0.2223
77	30	70	656000	3840	DFT-s-OFDM QPSK	90@45	25.89	23.89	0.2449
77	30	70	656000	3840	DFT-s-OFDM QPSK	1@1	25.62	23.62	0.2301
77	30	70	656000	3840	DFT-s-OFDM QPSK	1@187	25.79	23.79	0.2393
77	30	70	656000	3840	DFT-s-OFDM 16 QAM	90@45	24.84	22.84	0.1923
77	30	70	656000	3840	DFT-s-OFDM 16 QAM	1@1	24.23	22.23	0.1671
77	30	70	656000	3840	DFT-s-OFDM 16 QAM	1@187	24.38	22.38	0.1730
77	30	70	656000	3840	DFT-s-OFDM 64 QAM	90@45	23.36	21.36	0.1368
77	30	70	656000	3840	DFT-s-OFDM 64 QAM	1@1	22.74	20.74	0.1186

77	30	70	656000	3840	DFT-s-OFDM 64 QAM	1@187	22.89	20.89	0.1227
77	30	70	656000	3840	DFT-s-OFDM 256 QAM	90@45	21.3	19.3	0.0851
77	30	70	656000	3840	DFT-s-OFDM 256 QAM	1@1	20.49	18.49	0.0706
77	30	70	656000	3840	DFT-s-OFDM 256 QAM	1@187	20.56	18.56	0.0718
77	30	70	656000	3840	CP-OFDM QPSK	95@47	24.29	22.29	0.1694
77	30	70	656000	3840	CP-OFDM QPSK	1@1	23.71	21.71	0.1483
77	30	70	656000	3840	CP-OFDM QPSK	1@187	23.86	21.86	0.1535
77	30	70	663000	3945	DFT-s-OFDM PI/2 BPSK	90@45	26.05	24.05	0.2541
77	30	70	663000	3945	DFT-s-OFDM PI/2 BPSK	1@1	25.54	23.54	0.2259
77	30	70	663000	3945	DFT-s-OFDM PI/2 BPSK	1@187	25.29	23.29	0.2133
77	30	70	663000	3945	DFT-s-OFDM QPSK	90@45	26.02	24.02	0.2523
77	30	70	663000	3945	DFT-s-OFDM QPSK	1@1	25.89	23.89	0.2449
77	30	70	663000	3945	DFT-s-OFDM QPSK	1@187	25.61	23.61	0.2296
77	30	70	663000	3945	DFT-s-OFDM 16 QAM	90@45	24.99	22.99	0.1991
77	30	70	663000	3945	DFT-s-OFDM 16 QAM	1@1	24.48	22.48	0.1770
77	30	70	663000	3945	DFT-s-OFDM 16 QAM	1@187	24.14	22.14	0.1637
77	30	70	663000	3945	DFT-s-OFDM 64 QAM	90@45	23.52	21.52	0.1419
77	30	70	663000	3945	DFT-s-OFDM 64 QAM	1@1	23.44	21.44	0.1393
77	30	70	663000	3945	DFT-s-OFDM 64 QAM	1@187	23.06	21.06	0.1276
77	30	70	663000	3945	DFT-s-OFDM 256 QAM	90@45	21.49	19.49	0.0889
77	30	70	663000	3945	DFT-s-OFDM 256 QAM	1@1	20.57	18.57	0.0719
77	30	70	663000	3945	DFT-s-OFDM 256 QAM	1@187	20.52	18.52	0.0711
77	30	70	663000	3945	CP-OFDM QPSK	95@47	24.47	22.47	0.1766
77	30	70	663000	3945	CP-OFDM QPSK	1@1	23.92	21.92	0.1556
77	30	70	663000	3945	CP-OFDM QPSK	1@187	23.66	21.66	0.1466
77	30	80	649334	3740.01	DFT-s-OFDM PI/2 BPSK	108@54	26.03	24.03	0.2529
77	30	80	649334	3740.01	DFT-s-OFDM PI/2 BPSK	1@1	25.4	23.4	0.2188
77	30	80	649334	3740.01	DFT-s-OFDM PI/2 BPSK	1@215	25.33	23.33	0.2153
77	30	80	649334	3740.01	DFT-s-OFDM QPSK	108@54	26.04	24.04	0.2535
77	30	80	649334	3740.01	DFT-s-OFDM QPSK	1@1	26.02	24.02	0.2523
77	30	80	649334	3740.01	DFT-s-OFDM QPSK	1@215	26.28	24.28	0.2679
77	30	80	649334	3740.01	DFT-s-OFDM 16 QAM	108@54	25.03	23.03	0.2009
77	30	80	649334	3740.01	DFT-s-OFDM 16 QAM	1@1	24.21	22.21	0.1663
77	30	80	649334	3740.01	DFT-s-OFDM 16 QAM	1@215	24.14	22.14	0.1637
77	30	80	649334	3740.01	DFT-s-OFDM 64 QAM	108@54	23.52	21.52	0.1419
77	30	80	649334	3740.01	DFT-s-OFDM 64 QAM	1@1	23	21	0.1259

77	30	80	649334	3740.01	DFT-s-OFDM 64 QAM	1@215	22.94	20.94	0.1242
77	30	80	649334	3740.01	DFT-s-OFDM 256 QAM	108@54	21.52	19.52	0.0895
77	30	80	649334	3740.01	DFT-s-OFDM 256 QAM	1@1	21.04	19.04	0.0802
77	30	80	649334	3740.01	DFT-s-OFDM 256 QAM	1@215	21.03	19.03	0.0800
77	30	80	649334	3740.01	CP-OFDM QPSK	109@54	24.45	22.45	0.1758
77	30	80	649334	3740.01	CP-OFDM QPSK	1@1	23.85	21.85	0.1531
77	30	80	649334	3740.01	CP-OFDM QPSK	1@215	23.75	21.75	0.1496
77	30	80	656000	3840	DFT-s-OFDM PI/2 BPSK	108@54	25.84	23.84	0.2421
77	30	80	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	25.2	23.2	0.2089
77	30	80	656000	3840	DFT-s-OFDM PI/2 BPSK	1@215	25.36	23.36	0.2168
77	30	80	656000	3840	DFT-s-OFDM QPSK	108@54	25.87	23.87	0.2438
77	30	80	656000	3840	DFT-s-OFDM QPSK	1@1	25.48	23.48	0.2228
77	30	80	656000	3840	DFT-s-OFDM QPSK	1@215	25.64	23.64	0.2312
77	30	80	656000	3840	DFT-s-OFDM 16 QAM	108@54	24.84	22.84	0.1923
77	30	80	656000	3840	DFT-s-OFDM 16 QAM	1@1	24.05	22.05	0.1603
77	30	80	656000	3840	DFT-s-OFDM 16 QAM	1@215	24.25	22.25	0.1679
77	30	80	656000	3840	DFT-s-OFDM 64 QAM	108@54	23.38	21.38	0.1374
77	30	80	656000	3840	DFT-s-OFDM 64 QAM	1@1	22.76	20.76	0.1191
77	30	80	656000	3840	DFT-s-OFDM 64 QAM	1@215	23.19	21.19	0.1315
77	30	80	656000	3840	DFT-s-OFDM 256 QAM	108@54	21.35	19.35	0.0861
77	30	80	656000	3840	DFT-s-OFDM 256 QAM	1@1	20.23	18.23	0.0665
77	30	80	656000	3840	DFT-s-OFDM 256 QAM	1@215	20.36	18.36	0.0685
77	30	80	656000	3840	CP-OFDM QPSK	109@54	24.26	22.26	0.1683
77	30	80	656000	3840	CP-OFDM QPSK	1@1	23.46	21.46	0.1400
77	30	80	656000	3840	CP-OFDM QPSK	1@215	23.63	21.63	0.1455
77	30	80	662666	3939.99	DFT-s-OFDM PI/2 BPSK	108@54	25.98	23.98	0.2500
77	30	80	662666	3939.99	DFT-s-OFDM PI/2 BPSK	1@1	25.44	23.44	0.2208
77	30	80	662666	3939.99	DFT-s-OFDM PI/2 BPSK	1@215	25.07	23.07	0.2028
77	30	80	662666	3939.99	DFT-s-OFDM QPSK	108@54	26.01	24.01	0.2518
77	30	80	662666	3939.99	DFT-s-OFDM QPSK	1@1	25.68	23.68	0.2333
77	30	80	662666	3939.99	DFT-s-OFDM QPSK	1@215	25.38	23.38	0.2178
77	30	80	662666	3939.99	DFT-s-OFDM 16 QAM	108@54	24.97	22.97	0.1982
77	30	80	662666	3939.99	DFT-s-OFDM 16 QAM	1@1	24.3	22.3	0.1698
77	30	80	662666	3939.99	DFT-s-OFDM 16 QAM	1@215	23.97	21.97	0.1574
77	30	80	662666	3939.99	DFT-s-OFDM 64 QAM	108@54	23.49	21.49	0.1409
77	30	80	662666	3939.99	DFT-s-OFDM 64 QAM	1@1	23.2	21.2	0.1318

77	30	80	662666	3939.99	DFT-s-OFDM 64 QAM	1@215	22.54	20.54	0.1132
77	30	80	662666	3939.99	DFT-s-OFDM 256 QAM	108@54	21.47	19.47	0.0885
77	30	80	662666	3939.99	DFT-s-OFDM 256 QAM	1@1	20.46	18.46	0.0701
77	30	80	662666	3939.99	DFT-s-OFDM 256 QAM	1@215	20.33	18.33	0.0681
77	30	80	662666	3939.99	CP-OFDM QPSK	109@54	24.41	22.41	0.1742
77	30	80	662666	3939.99	CP-OFDM QPSK	1@1	23.76	21.76	0.1500
77	30	80	662666	3939.99	CP-OFDM QPSK	1@215	23.48	21.48	0.1406
77	30	90	649668	3745.02	DFT-s-OFDM PI/2 BPSK	120@60	26	24	0.2512
77	30	90	649668	3745.02	DFT-s-OFDM PI/2 BPSK	1@1	25.28	23.28	0.2128
77	30	90	649668	3745.02	DFT-s-OFDM PI/2 BPSK	1@243	25.12	23.12	0.2051
77	30	90	649668	3745.02	DFT-s-OFDM QPSK	120@60	26.01	24.01	0.2518
77	30	90	649668	3745.02	DFT-s-OFDM QPSK	1@1	25.34	23.34	0.2158
77	30	90	649668	3745.02	DFT-s-OFDM QPSK	1@243	25.3	23.3	0.2138
77	30	90	649668	3745.02	DFT-s-OFDM 16 QAM	120@60	25.02	23.02	0.2004
77	30	90	649668	3745.02	DFT-s-OFDM 16 QAM	1@1	24.17	22.17	0.1648
77	30	90	649668	3745.02	DFT-s-OFDM 16 QAM	1@243	24	22	0.1585
77	30	90	649668	3745.02	DFT-s-OFDM 64 QAM	120@60	23.51	21.51	0.1416
77	30	90	649668	3745.02	DFT-s-OFDM 64 QAM	1@1	22.74	20.74	0.1186
77	30	90	649668	3745.02	DFT-s-OFDM 64 QAM	1@243	22.55	20.55	0.1135
77	30	90	649668	3745.02	DFT-s-OFDM 256 QAM	120@60	21.47	19.47	0.0885
77	30	90	649668	3745.02	DFT-s-OFDM 256 QAM	1@1	20.25	18.25	0.0668
77	30	90	649668	3745.02	DFT-s-OFDM 256 QAM	1@243	20.49	18.49	0.0706
77	30	90	649668	3745.02	CP-OFDM QPSK	123@61	24.45	22.45	0.1758
77	30	90	649668	3745.02	CP-OFDM QPSK	1@1	23.64	21.64	0.1459
77	30	90	649668	3745.02	CP-OFDM QPSK	1@243	23.47	21.47	0.1403
77	30	90	656000	3840	DFT-s-OFDM PI/2 BPSK	120@60	25.78	23.78	0.2388
77	30	90	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	25.1	23.1	0.2042
77	30	90	656000	3840	DFT-s-OFDM PI/2 BPSK	1@243	25.24	23.24	0.2109
77	30	90	656000	3840	DFT-s-OFDM QPSK	120@60	25.8	23.8	0.2399
77	30	90	656000	3840	DFT-s-OFDM QPSK	1@1	25.09	23.09	0.2037
77	30	90	656000	3840	DFT-s-OFDM QPSK	1@243	25.29	23.29	0.2133
77	30	90	656000	3840	DFT-s-OFDM 16 QAM	120@60	24.86	22.86	0.1932
77	30	90	656000	3840	DFT-s-OFDM 16 QAM	1@1	23.92	21.92	0.1556
77	30	90	656000	3840	DFT-s-OFDM 16 QAM	1@243	24.12	22.12	0.1629
77	30	90	656000	3840	DFT-s-OFDM 64 QAM	120@60	23.34	21.34	0.1361
77	30	90	656000	3840	DFT-s-OFDM 64 QAM	1@1	22.47	20.47	0.1114

77	30	90	656000	3840	DFT-s-OFDM 64 QAM	1@243	22.73	20.73	0.1183
77	30	90	656000	3840	DFT-s-OFDM 256 QAM	120@60	21.29	19.29	0.0849
77	30	90	656000	3840	DFT-s-OFDM 256 QAM	1@1	20.09	18.09	0.0644
77	30	90	656000	3840	DFT-s-OFDM 256 QAM	1@243	20.47	18.47	0.0703
77	30	90	656000	3840	CP-OFDM QPSK	123@61	24.26	22.26	0.1683
77	30	90	656000	3840	CP-OFDM QPSK	1@1	23.36	21.36	0.1368
77	30	90	656000	3840	CP-OFDM QPSK	1@243	23.61	21.61	0.1449
77	30	90	662332	3934.98	DFT-s-OFDM PI/2 BPSK	120@60	25.91	23.91	0.2460
77	30	90	662332	3934.98	DFT-s-OFDM PI/2 BPSK	1@1	25.19	23.19	0.2084
77	30	90	662332	3934.98	DFT-s-OFDM PI/2 BPSK	1@243	24.85	22.85	0.1928
77	30	90	662332	3934.98	DFT-s-OFDM QPSK	120@60	25.96	23.96	0.2489
77	30	90	662332	3934.98	DFT-s-OFDM QPSK	1@1	25.38	23.38	0.2178
77	30	90	662332	3934.98	DFT-s-OFDM QPSK	1@243	24.96	22.96	0.1977
77	30	90	662332	3934.98	DFT-s-OFDM 16 QAM	120@60	24.98	22.98	0.1986
77	30	90	662332	3934.98	DFT-s-OFDM 16 QAM	1@1	24.15	22.15	0.1641
77	30	90	662332	3934.98	DFT-s-OFDM 16 QAM	1@243	23.8	21.8	0.1514
77	30	90	662332	3934.98	DFT-s-OFDM 64 QAM	120@60	23.43	21.43	0.1390
77	30	90	662332	3934.98	DFT-s-OFDM 64 QAM	1@1	22.58	20.58	0.1143
77	30	90	662332	3934.98	DFT-s-OFDM 64 QAM	1@243	22.5	20.5	0.1122
77	30	90	662332	3934.98	DFT-s-OFDM 256 QAM	120@60	21.42	19.42	0.0875
77	30	90	662332	3934.98	DFT-s-OFDM 256 QAM	1@1	20.3	18.3	0.0676
77	30	90	662332	3934.98	DFT-s-OFDM 256 QAM	1@243	20.27	18.27	0.0671
77	30	90	662332	3934.98	CP-OFDM QPSK	123@61	24.39	22.39	0.1734
77	30	90	662332	3934.98	CP-OFDM QPSK	1@1	23.52	21.52	0.1419
77	30	90	662332	3934.98	CP-OFDM QPSK	1@243	23.2	21.2	0.1318
77	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	135@67	25.95	23.95	0.2483
77	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	25.05	23.05	0.2018
77	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	1@271	24.87	22.87	0.1936
77	30	100	650000	3750	DFT-s-OFDM QPSK	135@67	25.99	23.99	0.2506
77	30	100	650000	3750	DFT-s-OFDM QPSK	1@1	25.14	23.14	0.2061
77	30	100	650000	3750	DFT-s-OFDM QPSK	1@271	25.07	23.07	0.2028
77	30	100	650000	3750	DFT-s-OFDM 16 QAM	135@67	24.98	22.98	0.1986
77	30	100	650000	3750	DFT-s-OFDM 16 QAM	1@1	23.96	21.96	0.1570
77	30	100	650000	3750	DFT-s-OFDM 16 QAM	1@271	23.78	21.78	0.1507
77	30	100	650000	3750	DFT-s-OFDM 64 QAM	135@67	23.47	21.47	0.1403
77	30	100	650000	3750	DFT-s-OFDM 64 QAM	1@1	22.51	20.51	0.1125

77	30	100	650000	3750	DFT-s-OFDM 64 QAM	1@271	22.41	20.41	0.1099
77	30	100	650000	3750	DFT-s-OFDM 256 QAM	135@67	21.43	19.43	0.0877
77	30	100	650000	3750	DFT-s-OFDM 256 QAM	1@1	20.19	18.19	0.0659
77	30	100	650000	3750	DFT-s-OFDM 256 QAM	1@271	20.08	18.08	0.0643
77	30	100	650000	3750	CP-OFDM QPSK	137@68	24.46	22.46	0.1762
77	30	100	650000	3750	CP-OFDM QPSK	1@1	23.46	21.46	0.1400
77	30	100	650000	3750	CP-OFDM QPSK	1@271	23.25	21.25	0.1334
77	30	100	656000	3840	DFT-s-OFDM PI/2 BPSK	135@67	25.78	23.78	0.2388
77	30	100	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	24.9	22.9	0.1950
77	30	100	656000	3840	DFT-s-OFDM PI/2 BPSK	1@271	25.13	23.13	0.2056
77	30	100	656000	3840	DFT-s-OFDM QPSK	135@67	25.83	23.83	0.2415
77	30	100	656000	3840	DFT-s-OFDM QPSK	1@1	25.36	23.36	0.2168
77	30	100	656000	3840	DFT-s-OFDM QPSK	1@271	25.61	23.61	0.2296
77	30	100	656000	3840	DFT-s-OFDM 16 QAM	135@67	24.8	22.8	0.1905
77	30	100	656000	3840	DFT-s-OFDM 16 QAM	1@1	23.76	21.76	0.1500
77	30	100	656000	3840	DFT-s-OFDM 16 QAM	1@271	24.03	22.03	0.1596
77	30	100	656000	3840	DFT-s-OFDM 64 QAM	135@67	23.33	21.33	0.1358
77	30	100	656000	3840	DFT-s-OFDM 64 QAM	1@1	22.4	20.4	0.1096
77	30	100	656000	3840	DFT-s-OFDM 64 QAM	1@271	22.69	20.69	0.1172
77	30	100	656000	3840	DFT-s-OFDM 256 QAM	135@67	21.29	19.29	0.0849
77	30	100	656000	3840	DFT-s-OFDM 256 QAM	1@1	20.01	18.01	0.0632
77	30	100	656000	3840	DFT-s-OFDM 256 QAM	1@271	20.32	18.32	0.0679
77	30	100	656000	3840	CP-OFDM QPSK	137@68	24.27	22.27	0.1687
77	30	100	656000	3840	CP-OFDM QPSK	1@1	23.24	21.24	0.1330
77	30	100	656000	3840	CP-OFDM QPSK	1@271	23.46	21.46	0.1400
77	30	100	662000	3930	DFT-s-OFDM PI/2 BPSK	135@67	25.93	23.93	0.2472
77	30	100	662000	3930	DFT-s-OFDM PI/2 BPSK	1@1	24.99	22.99	0.1991
77	30	100	662000	3930	DFT-s-OFDM PI/2 BPSK	1@271	24.78	22.78	0.1897
77	30	100	662000	3930	DFT-s-OFDM QPSK	135@67	26.03	24.03	0.2529
77	30	100	662000	3930	DFT-s-OFDM QPSK	1@1	25.16	23.16	0.2070
77	30	100	662000	3930	DFT-s-OFDM QPSK	1@271	24.93	22.93	0.1963
77	30	100	662000	3930	DFT-s-OFDM 16 QAM	135@67	25.01	23.01	0.2000
77	30	100	662000	3930	DFT-s-OFDM 16 QAM	1@1	23.88	21.88	0.1542
77	30	100	662000	3930	DFT-s-OFDM 16 QAM	1@271	23.65	21.65	0.1462
77	30	100	662000	3930	DFT-s-OFDM 64 QAM	135@67	23.48	21.48	0.1406
77	30	100	662000	3930	DFT-s-OFDM 64 QAM	1@1	22.49	20.49	0.1119

77	30	100	662000	3930	DFT-s-OFDM 64 QAM	1@271	22.26	20.26	0.1062
77	30	100	662000	3930	DFT-s-OFDM 256 QAM	135@67	21.46	19.46	0.0883
77	30	100	662000	3930	DFT-s-OFDM 256 QAM	1@1	20.21	18.21	0.0662
77	30	100	662000	3930	DFT-s-OFDM 256 QAM	1@271	19.99	17.99	0.0630
77	30	100	662000	3930	CP-OFDM QPSK	137@68	24.48	22.48	0.1770
77	30	100	662000	3930	CP-OFDM QPSK	1@1	23.37	21.37	0.1371
77	30	100	662000	3930	CP-OFDM QPSK	1@271	23.12	21.12	0.1294

Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	0.00549	PASS	NV
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	0.00527	PASS	LV
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	0.00597	PASS	HV
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	0.00447	PASS	-30°C
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	0.00206	PASS	-20°C
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	0.00482	PASS	-10°C
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	0.00687	PASS	0°C
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	0.00527	PASS	10°C
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	0.00325	PASS	20°C
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	0.00365	PASS	30°C
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	0.00513	PASS	40°C
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	0.00028	PASS	50°C

Peak to Average Ratio

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
77	30	20	647334	3710.01	DFT-s-OFDM PI/2 BPSK	50@0	6.95	13	PASS
77	30	20	647334	3710.01	DFT-s-OFDM PI/2 BPSK	1@0	7.81	13	PASS
77	30	20	647334	3710.01	DFT-s-OFDM QPSK	50@0	8.09	13	PASS
77	30	20	647334	3710.01	DFT-s-OFDM QPSK	1@0	7.91	13	PASS
77	30	20	656000	3840.0	DFT-s-OFDM PI/2 BPSK	50@0	6.72	13	PASS
77	30	20	656000	3840.0	DFT-s-OFDM PI/2 BPSK	1@0	7.26	13	PASS
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	7.9	13	PASS
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	1@0	7.82	13	PASS
77	30	20	664666	3969.99	DFT-s-OFDM PI/2 BPSK	50@0	6.78	13	PASS
77	30	20	664666	3969.99	DFT-s-OFDM PI/2 BPSK	1@0	7.02	13	PASS
77	30	20	664666	3969.99	DFT-s-OFDM QPSK	50@0	7.92	13	PASS
77	30	20	664666	3969.99	DFT-s-OFDM QPSK	1@0	7.4	13	PASS

N77(20M)_DFT-s-OFDM_PI_2-BPSK Outer Full Low CH



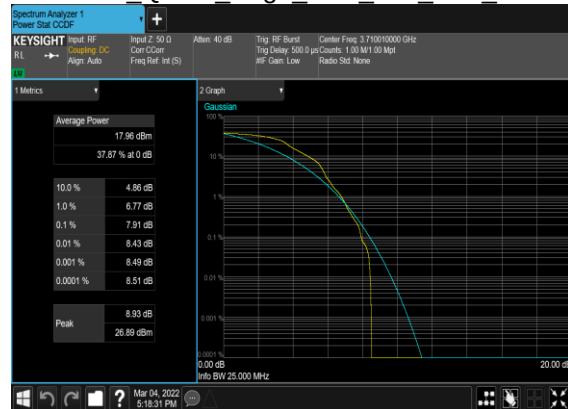
N77(20M)_DFT-s-OFDM_PI_2-BPSK Edge 1RB Left Low CH



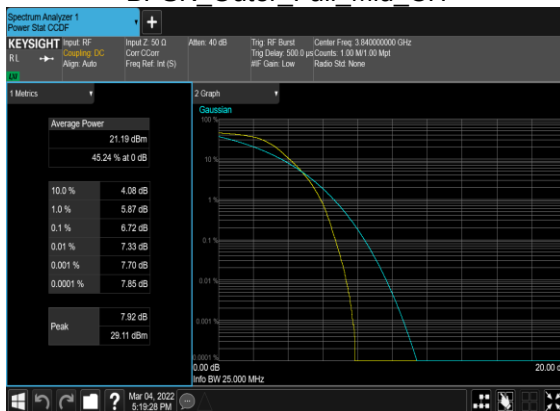
N77(20M)_DFT-s-OFDM QPSK Outer Full Low CH



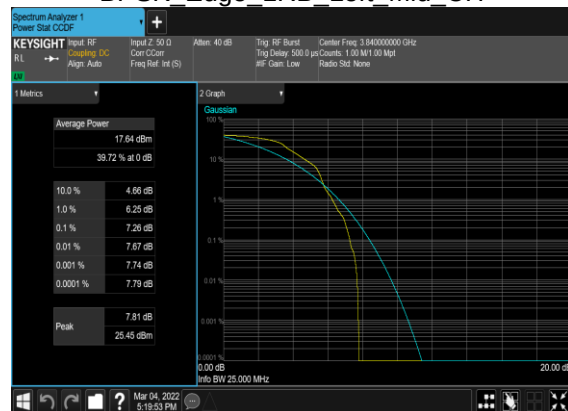
N77(20M)_DFT-s-OFDM QPSK Edge 1RB Left Low CH



N77(20M)_DFT-s-OFDM_PI_2-BPSK Outer Full Mid CH



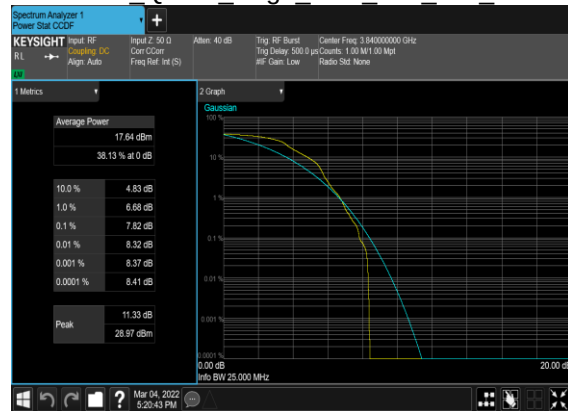
N77(20M)_DFT-s-OFDM_PI_2-BPSK Edge 1RB Left Mid CH



N77(20M)_DFT-s-OFDM QPSK Outer Full Mid CH



N77(20M)_DFT-s-OFDM QPSK Edge 1RB Left Mid CH



N77(20M)_DFT-s-OFDM_PI_2-BPSK Outer Full High CH



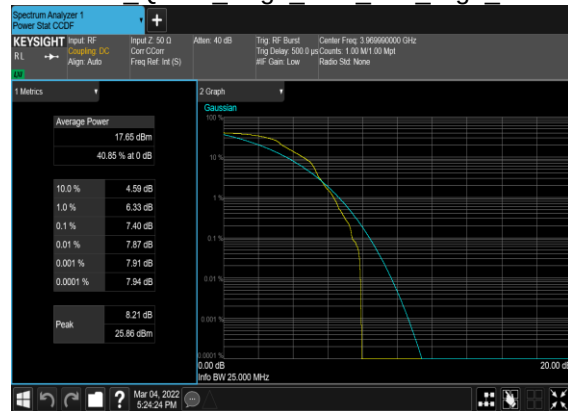
N77(20M)_DFT-s-OFDM_PI_2-BPSK Edge 1RB Left High CH



N77(20M)_DFT-s-OFDM QPSK Outer Full High CH



N77(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)
77	30	10	656000	3840.0	DFT-s-OFDM PI/2 BPSK	24@0	8.5882	9.273
77	30	10	656000	3840.0	DFT-s-OFDM QPSK	24@0	8.5647	9.318
77	30	10	656000	3840.0	CP-OFDM QPSK	24@0	8.5623	9.282
77	30	10	656000	3840.0	CP-OFDM 16 QAM	24@0	8.5704	9.425
77	30	10	656000	3840.0	CP-OFDM 64 QAM	24@0	8.5738	9.46
77	30	10	656000	3840.0	CP-OFDM 256 QAM	24@0	8.5762	9.328
77	30	15	656000	3840.0	DFT-s-OFDM PI/2 BPSK	36@0	12.829	13.74
77	30	15	656000	3840.0	DFT-s-OFDM QPSK	36@0	12.846	14.14
77	30	15	656000	3840.0	CP-OFDM QPSK	38@0	13.559	14.46
77	30	15	656000	3840.0	CP-OFDM 16 QAM	38@0	13.571	14.33
77	30	15	656000	3840.0	CP-OFDM 64 QAM	38@0	13.583	14.48
77	30	15	656000	3840.0	CP-OFDM 256 QAM	38@0	13.571	14.53
77	30	20	656000	3840.0	DFT-s-OFDM PI/2 BPSK	50@0	17.793	18.81
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	17.84	19.06
77	30	20	656000	3840.0	CP-OFDM QPSK	51@0	18.188	19.2
77	30	20	656000	3840.0	CP-OFDM 16 QAM	51@0	18.212	19.43
77	30	20	656000	3840.0	CP-OFDM 64 QAM	51@0	18.259	19.35
77	30	20	656000	3840.0	CP-OFDM 256 QAM	51@0	18.24	19.28
77	30	25	656000	3840.0	DFT-s-OFDM PI/2 BPSK	64@0	22.768	23.97
77	30	25	656000	3840.0	DFT-s-OFDM QPSK	64@0	22.788	24.05
77	30	25	656000	3840.0	CP-OFDM QPSK	65@0	23.163	24.24
77	30	25	656000	3840.0	CP-OFDM 16 QAM	65@0	23.194	24.31
77	30	25	656000	3840.0	CP-OFDM 64 QAM	65@0	23.227	24.35
77	30	25	656000	3840.0	CP-OFDM 256 QAM	65@0	23.25	24.21
77	30	30	656000	3840.0	DFT-s-OFDM PI/2 BPSK	75@0	26.715	28.7

77	30	30	656000	3840.0	DFT-s-OFDM QPSK	75@0	26.797	28.49
77	30	30	656000	3840.0	CP-OFDM QPSK	78@0	27.78	29.3
77	30	30	656000	3840.0	CP-OFDM 16 QAM	78@0	27.837	29.29
77	30	30	656000	3840.0	CP-OFDM 64 QAM	78@0	27.762	29.12
77	30	30	656000	3840.0	CP-OFDM 256 QAM	78@0	27.815	29.18
77	30	40	656000	3840.0	DFT-s-OFDM PI/2 BPSK	100@0	35.774	37.43
77	30	40	656000	3840.0	DFT-s-OFDM QPSK	100@0	35.714	37.69
77	30	40	656000	3840.0	CP-OFDM QPSK	106@0	37.826	39.25
77	30	40	656000	3840.0	CP-OFDM 16 QAM	106@0	37.894	39.61
77	30	40	656000	3840.0	CP-OFDM 64 QAM	106@0	37.745	39.34
77	30	40	656000	3840.0	CP-OFDM 256 QAM	106@0	37.844	39.45
77	30	50	656000	3840.0	DFT-s-OFDM PI/2 BPSK	128@0	45.803	47.49
77	30	50	656000	3840.0	DFT-s-OFDM QPSK	128@0	45.734	47.62
77	30	50	656000	3840.0	CP-OFDM QPSK	133@0	47.453	49.76
77	30	50	656000	3840.0	CP-OFDM 16 QAM	133@0	47.432	49.37
77	30	50	656000	3840.0	CP-OFDM 64 QAM	133@0	47.481	49.48
77	30	50	656000	3840.0	CP-OFDM 256 QAM	133@0	47.504	49.41
77	30	60	656000	3840.0	DFT-s-OFDM PI/2 BPSK	162@0	57.891	59.97
77	30	60	656000	3840.0	DFT-s-OFDM QPSK	162@0	57.948	59.9
77	30	60	656000	3840.0	CP-OFDM QPSK	162@0	57.793	59.83
77	30	60	656000	3840.0	CP-OFDM 16 QAM	162@0	57.703	59.83
77	30	60	656000	3840.0	CP-OFDM 64 QAM	162@0	57.85	59.8
77	30	60	656000	3840.0	CP-OFDM 256 QAM	162@0	57.834	59.87
77	30	70	656000	3840.0	DFT-s-OFDM PI/2 BPSK	180@0	64.342	66.78
77	30	70	656000	3840.0	DFT-s-OFDM QPSK	180@0	64.323	68.56
77	30	70	656000	3840.0	CP-OFDM QPSK	189@0	67.567	69.74
77	30	70	656000	3840.0	CP-OFDM 16 QAM	189@0	67.449	70.01

77	30	70	656000	3840.0	CP-OFDM 64 QAM	189@0	67.586	69.84
77	30	70	656000	3840.0	CP-OFDM 256 QAM	189@0	67.592	70.06
77	30	80	656000	3840.0	DFT-s-OFDM PI/2 BPSK	216@0	77.031	79.99
77	30	80	656000	3840.0	DFT-s-OFDM QPSK	216@0	77.022	79.58
77	30	80	656000	3840.0	CP-OFDM QPSK	217@0	77.538	80.04
77	30	80	656000	3840.0	CP-OFDM 16 QAM	217@0	77.648	80.05
77	30	80	656000	3840.0	CP-OFDM 64 QAM	217@0	77.437	80.2
77	30	80	656000	3840.0	CP-OFDM 256 QAM	217@0	77.363	80.04
77	30	90	656000	3840.0	DFT-s-OFDM PI/2 BPSK	240@0	85.729	88.74
77	30	90	656000	3840.0	DFT-s-OFDM QPSK	240@0	85.737	88.7
77	30	90	656000	3840.0	CP-OFDM QPSK	245@0	87.499	90.32
77	30	90	656000	3840.0	CP-OFDM 16 QAM	245@0	87.526	90.23
77	30	90	656000	3840.0	CP-OFDM 64 QAM	245@0	87.391	90.12
77	30	90	656000	3840.0	CP-OFDM 256 QAM	245@0	87.425	90.23
77	30	100	656000	3840.0	DFT-s-OFDM PI/2 BPSK	270@0	96.268	99.5
77	30	100	656000	3840.0	DFT-s-OFDM QPSK	270@0	96.337	99.47
77	30	100	656000	3840.0	CP-OFDM QPSK	273@0	97.318	100.5
77	30	100	656000	3840.0	CP-OFDM 16 QAM	273@0	97.368	100.6
77	30	100	656000	3840.0	CP-OFDM 64 QAM	273@0	97.435	100.4
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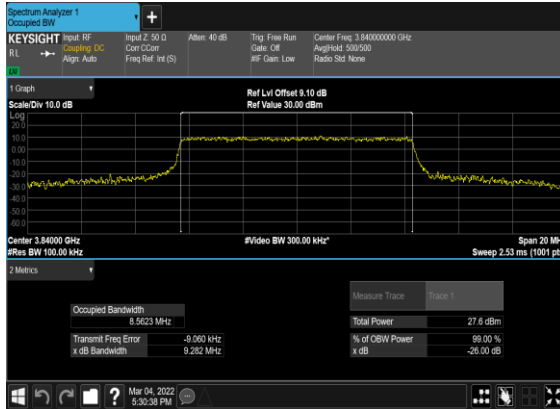
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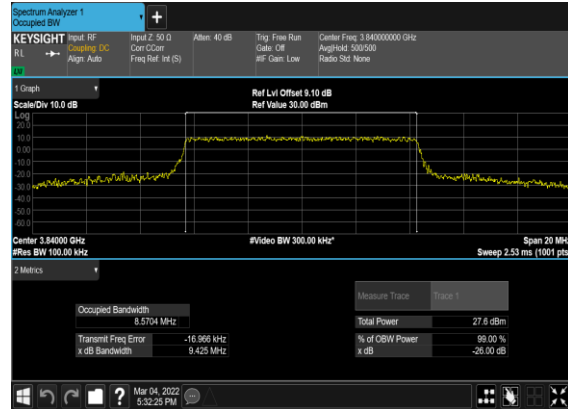
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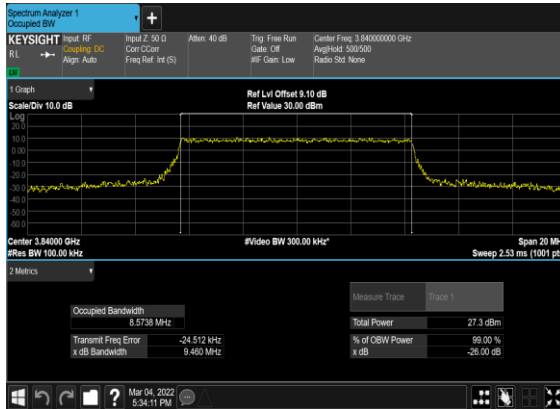
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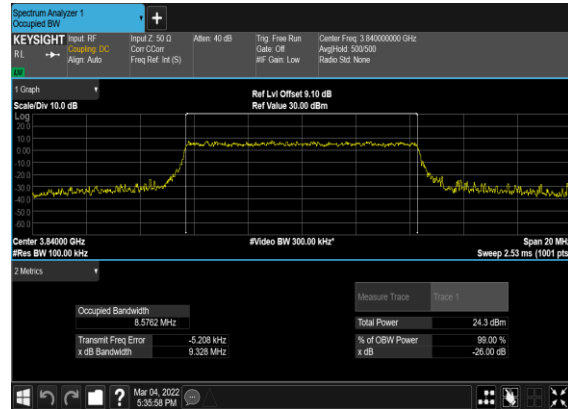
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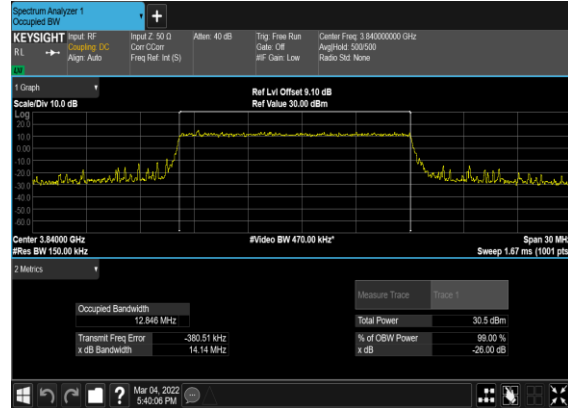
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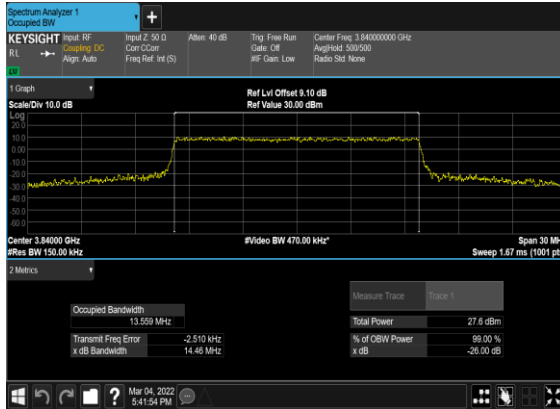
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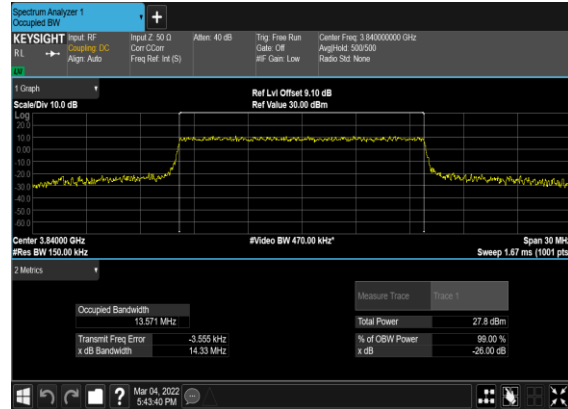
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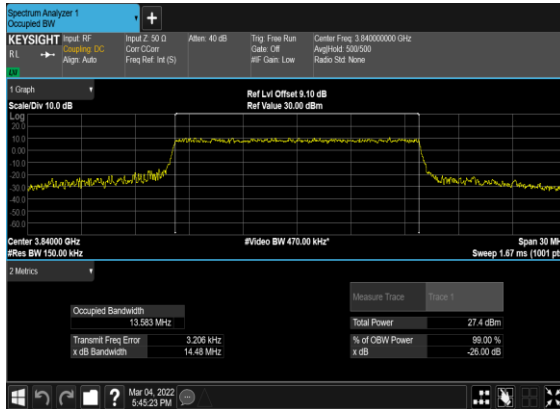
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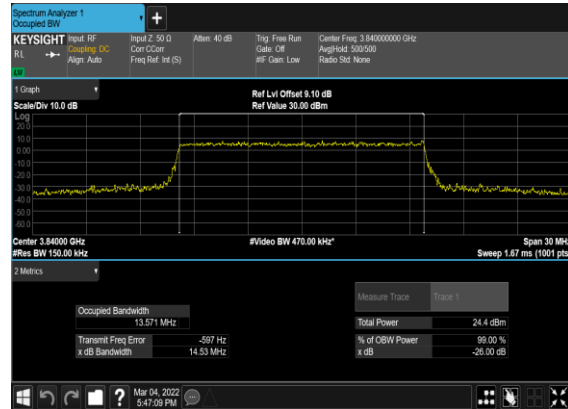
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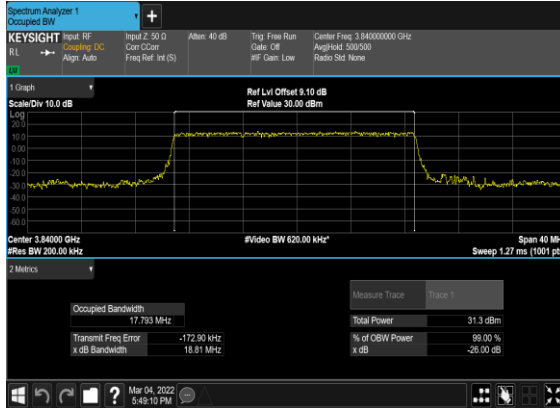
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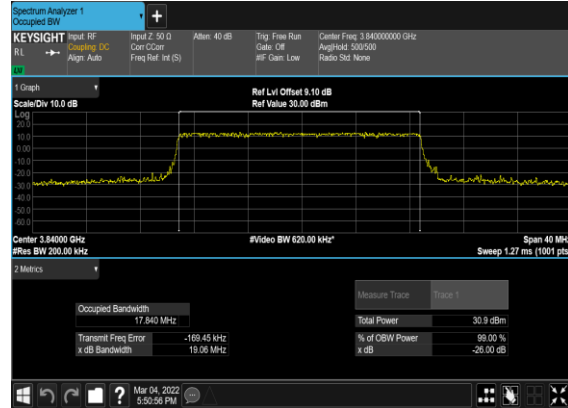
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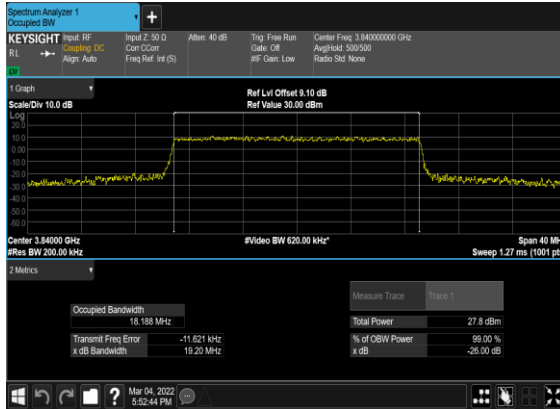
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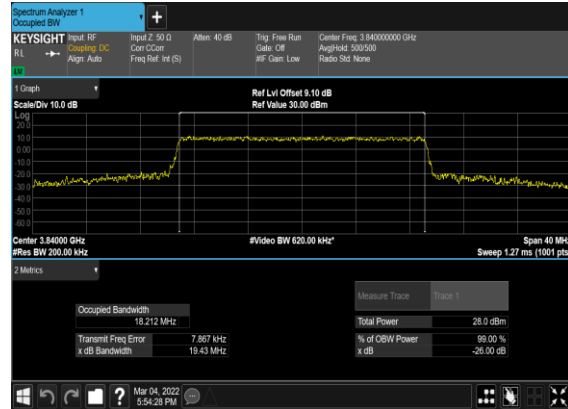
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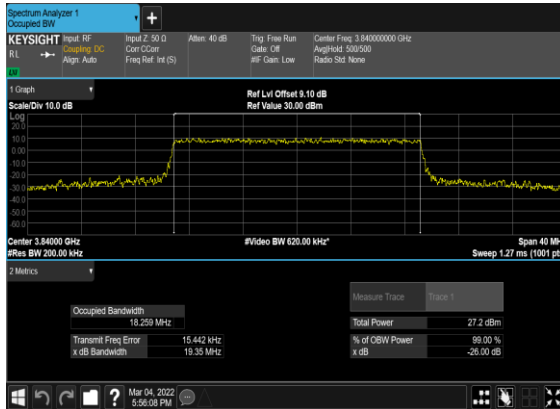
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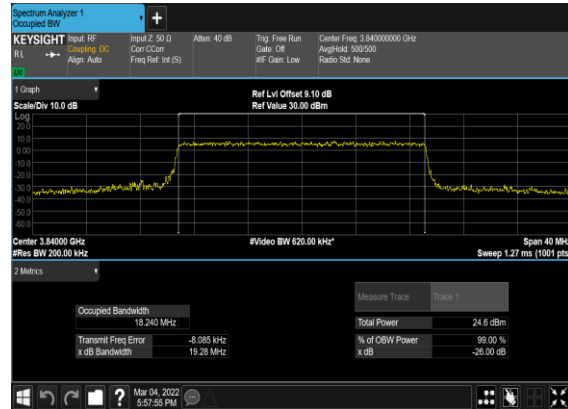
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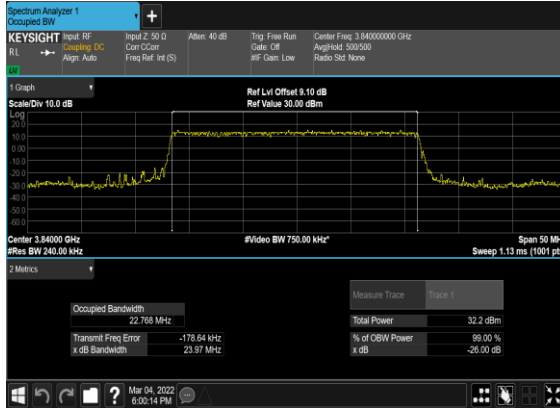
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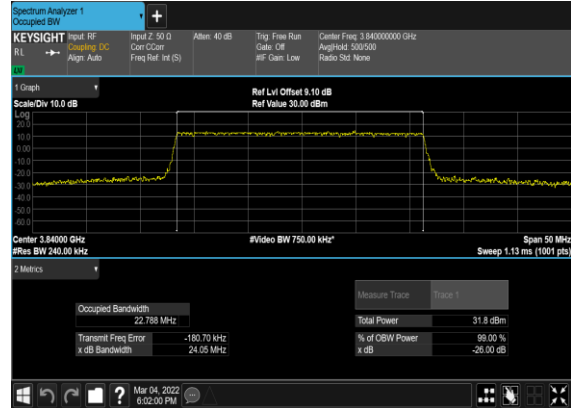
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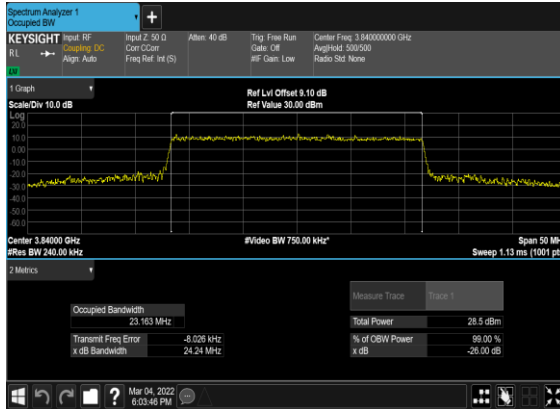
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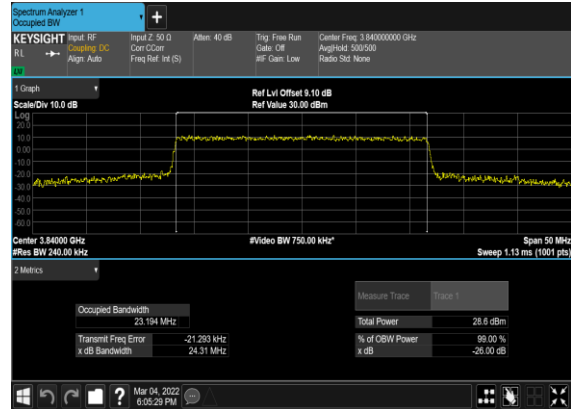
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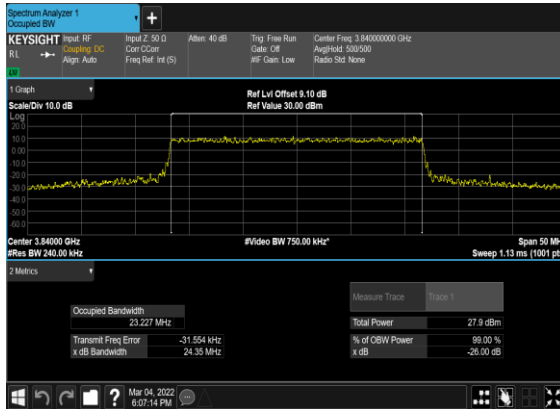
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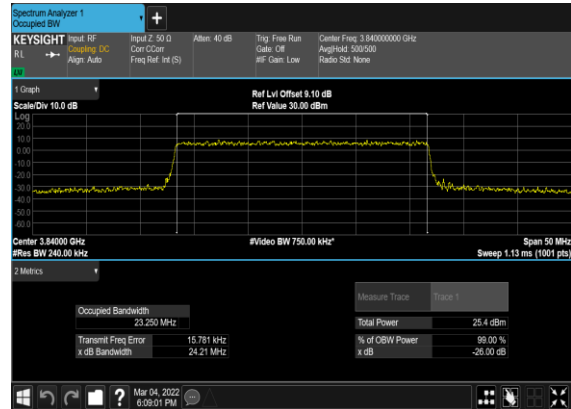
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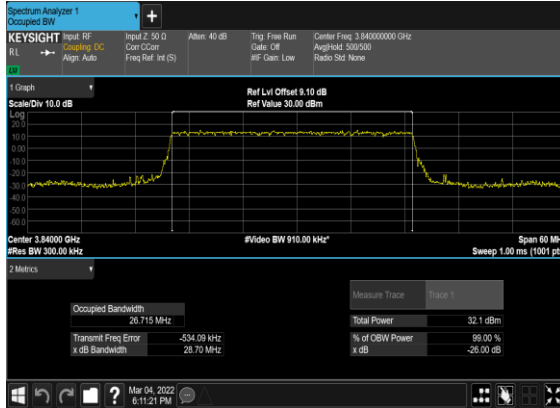
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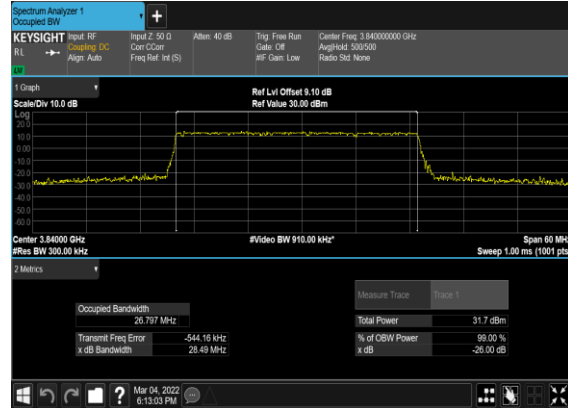
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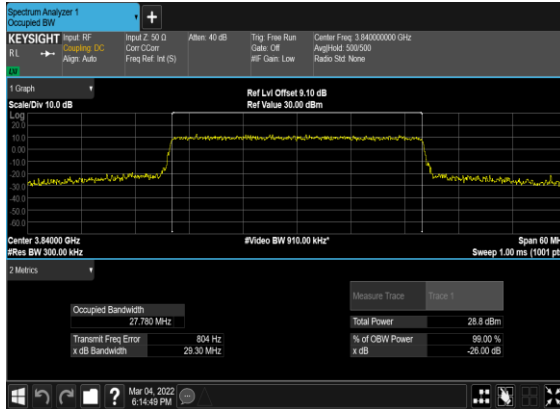
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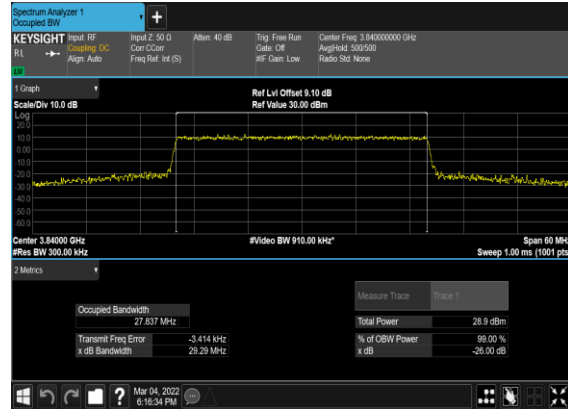
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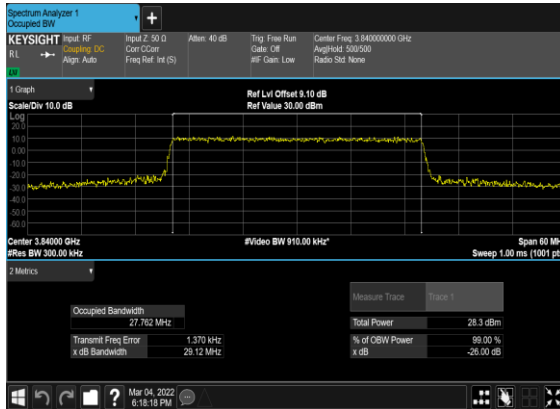
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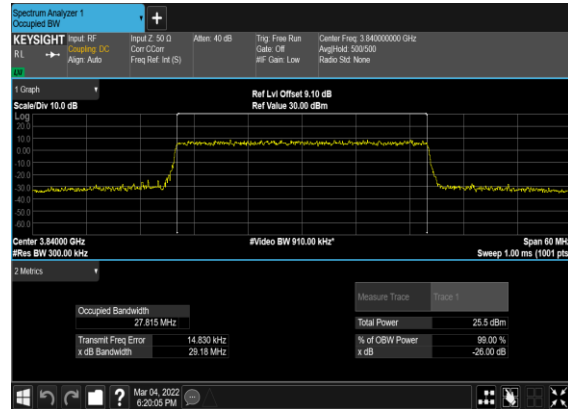
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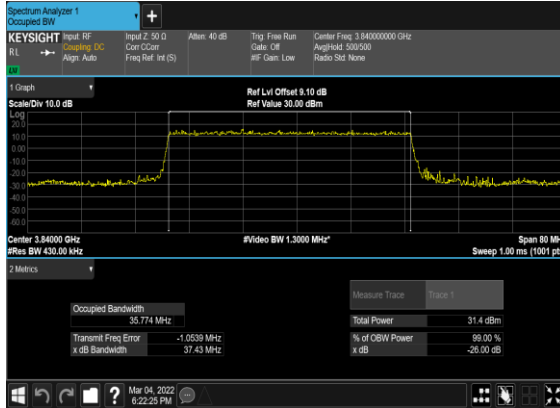
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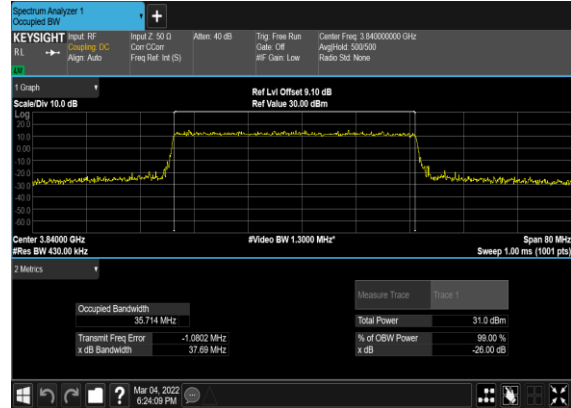
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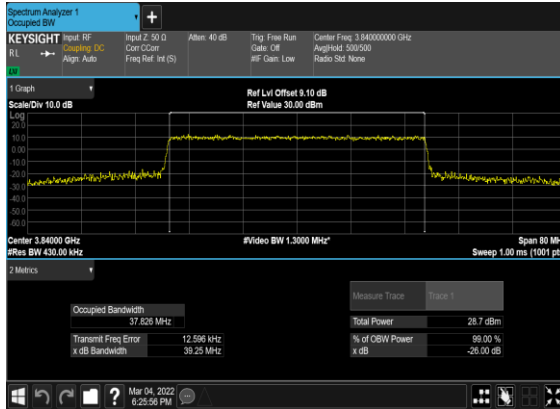
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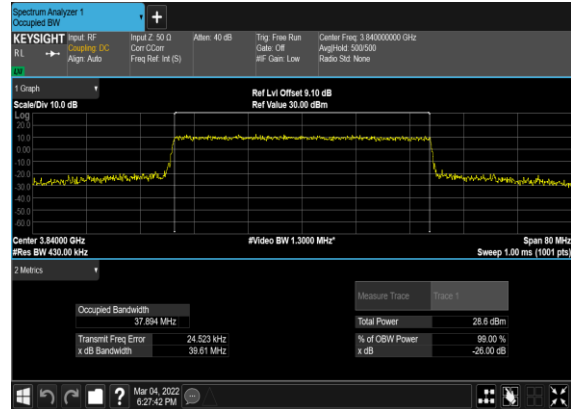
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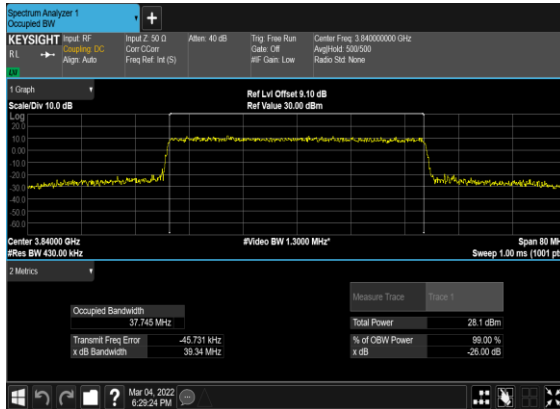
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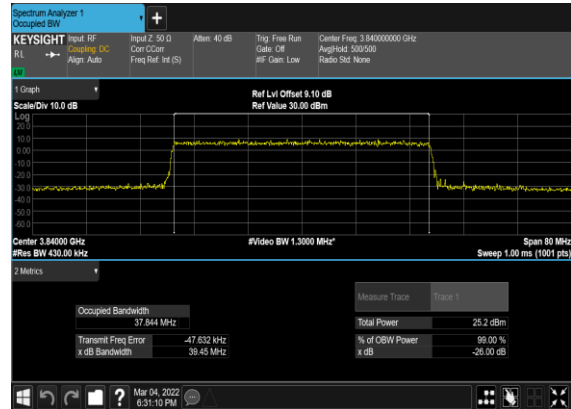
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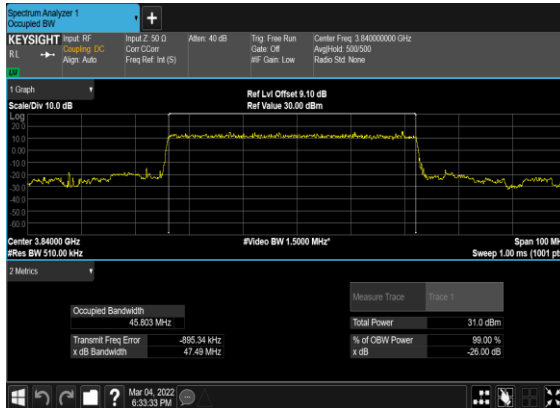
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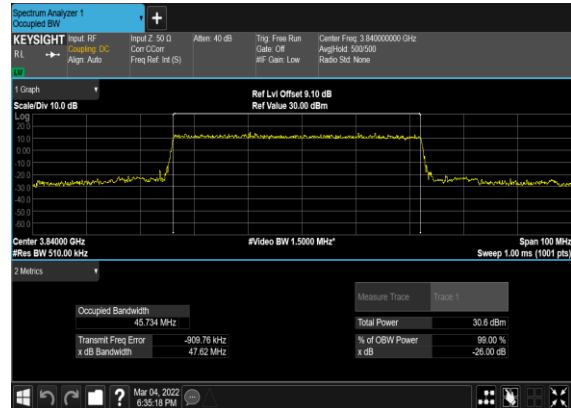
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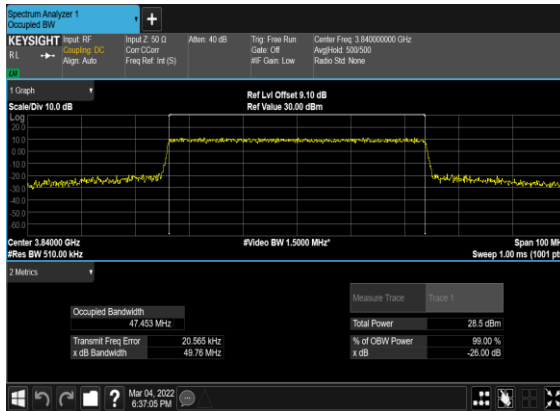
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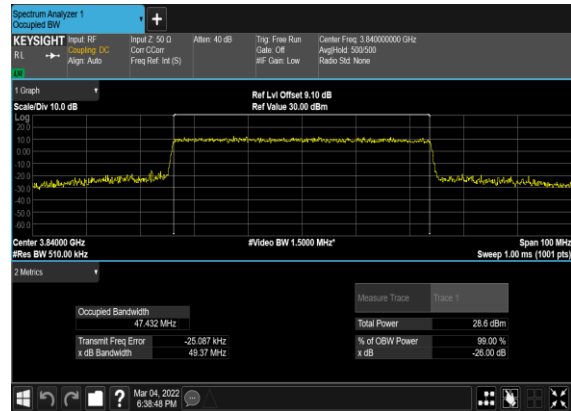
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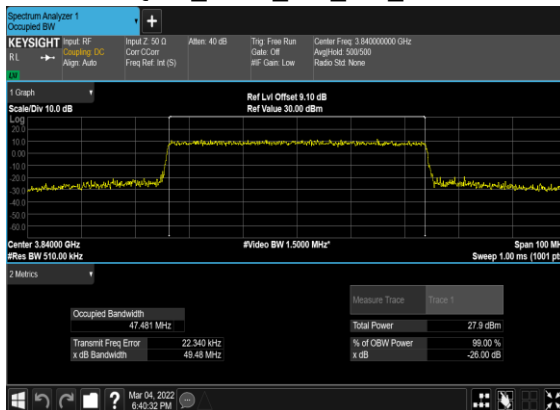
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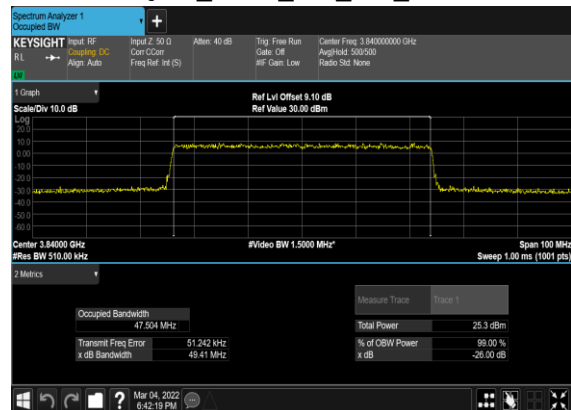
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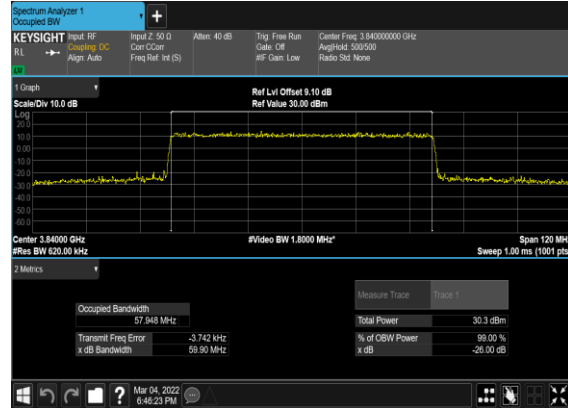
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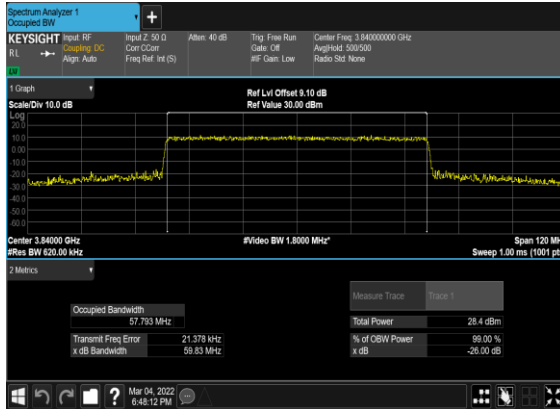
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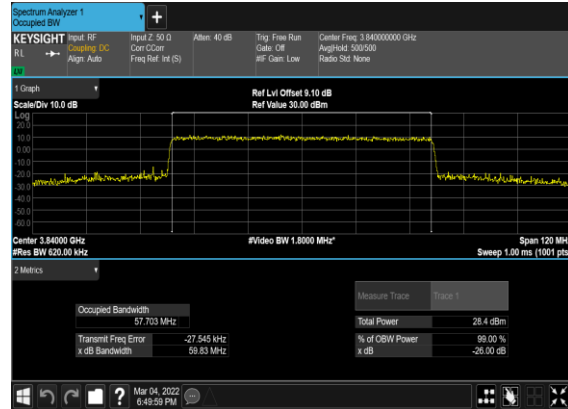
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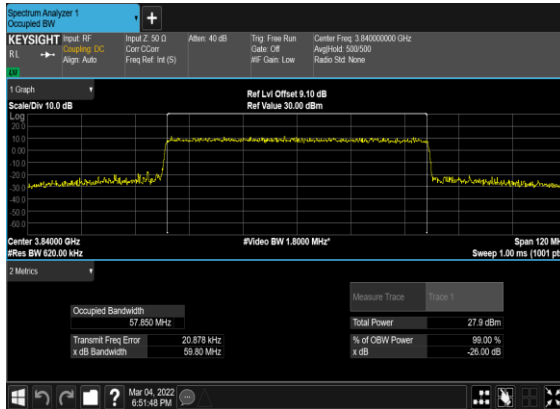
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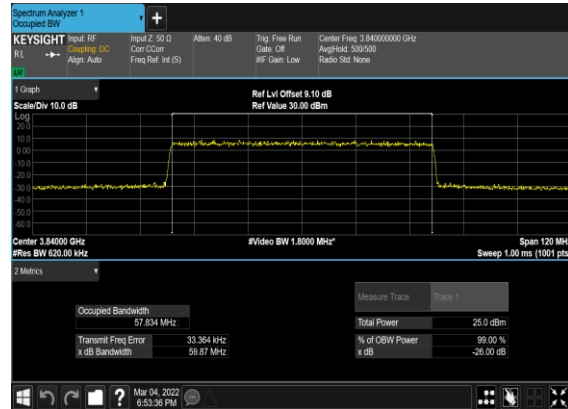
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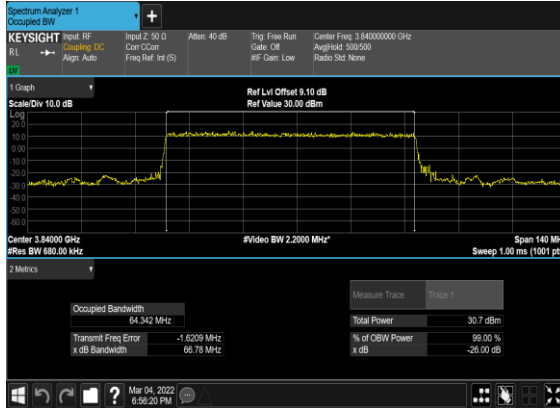
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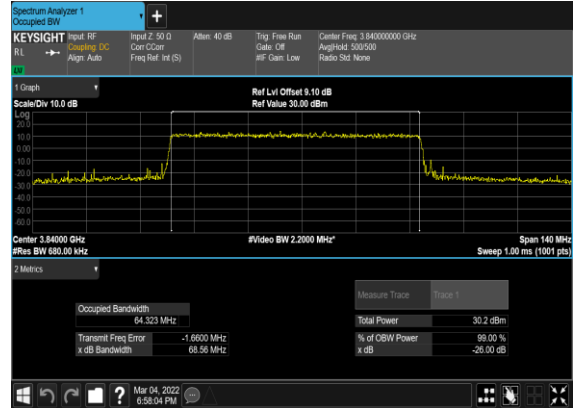
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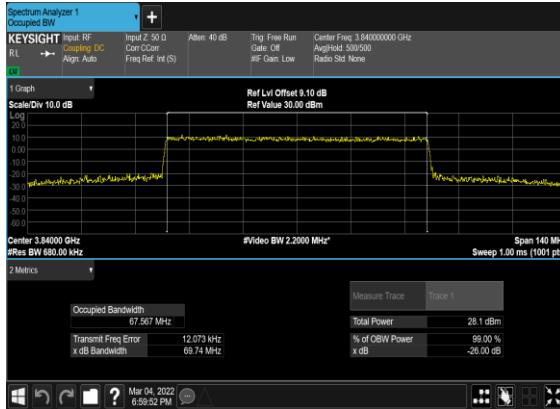
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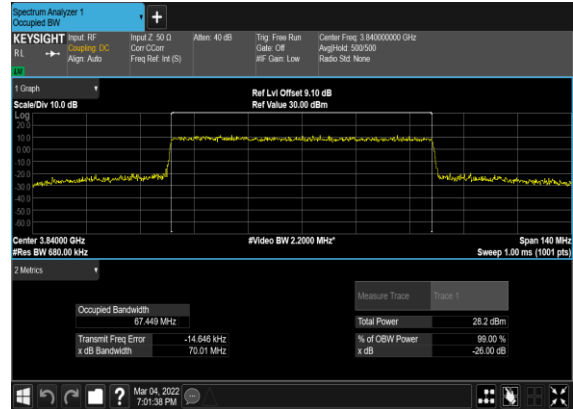
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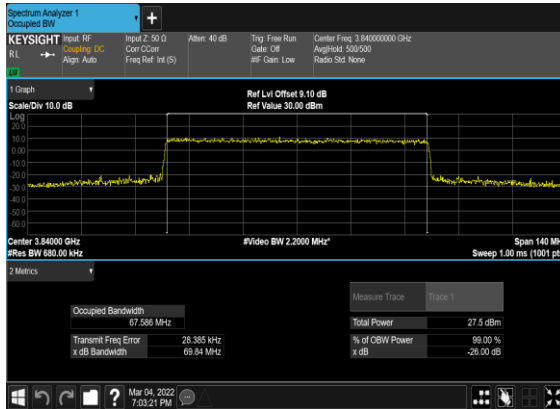
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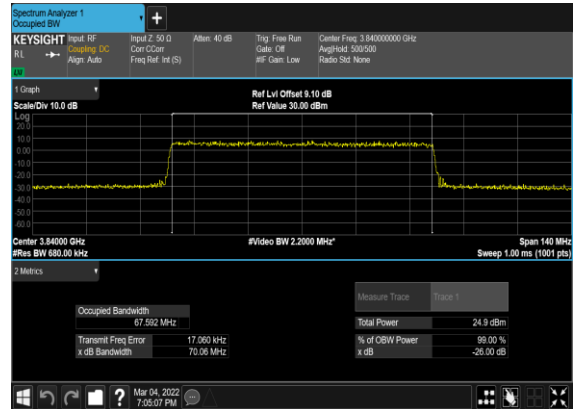
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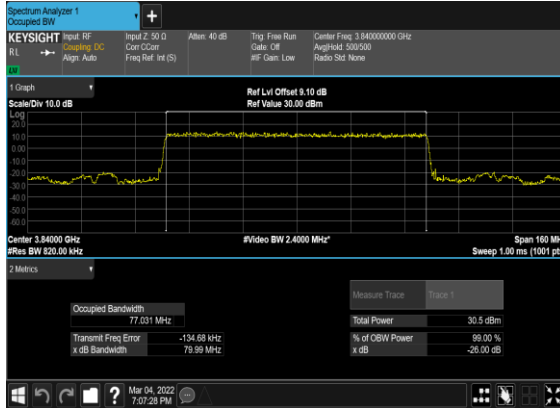
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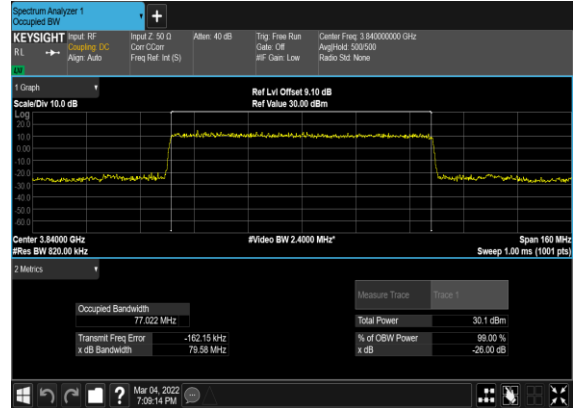
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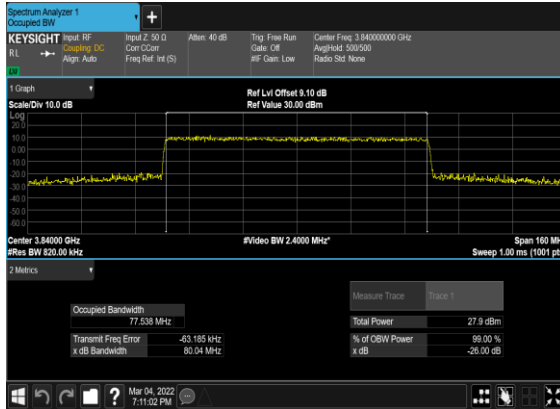
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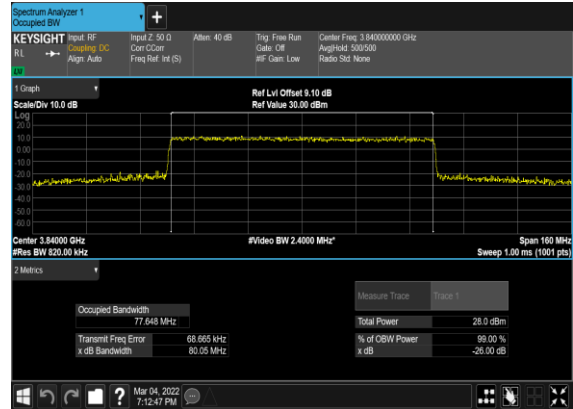
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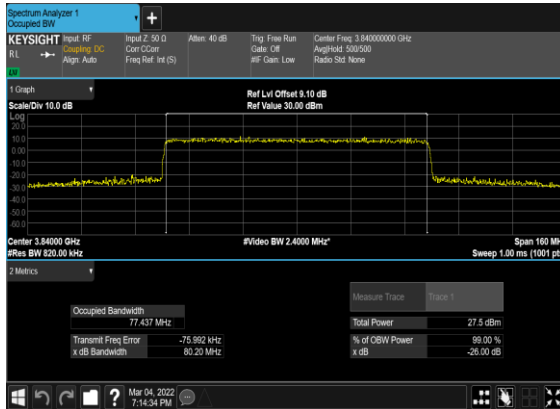
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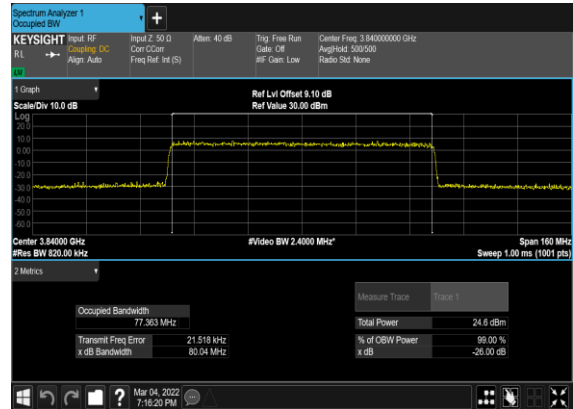
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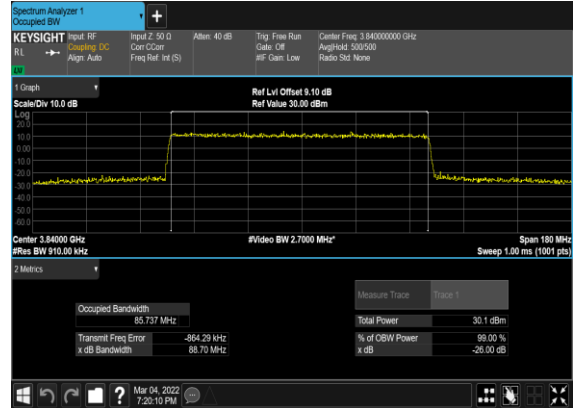
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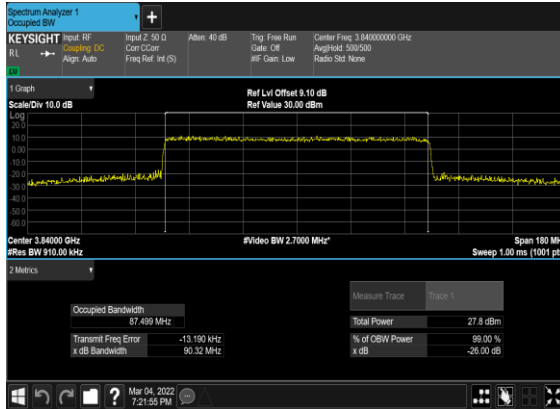
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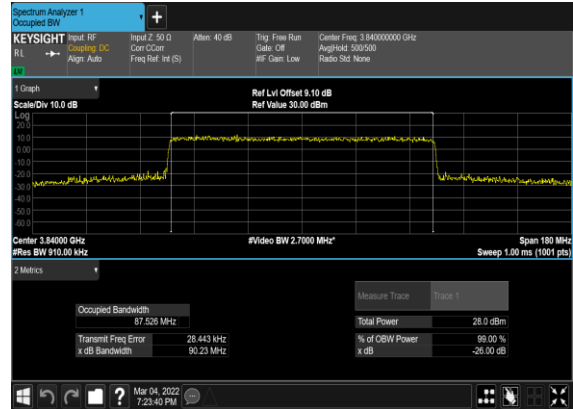
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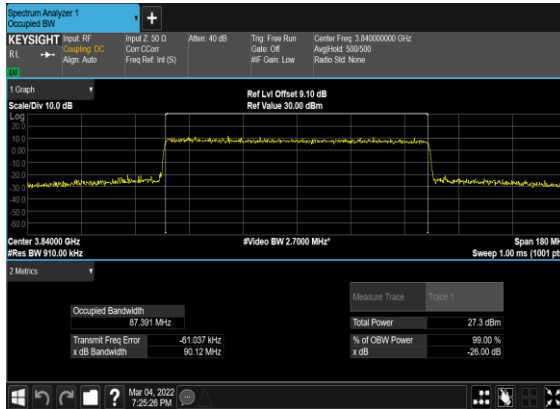
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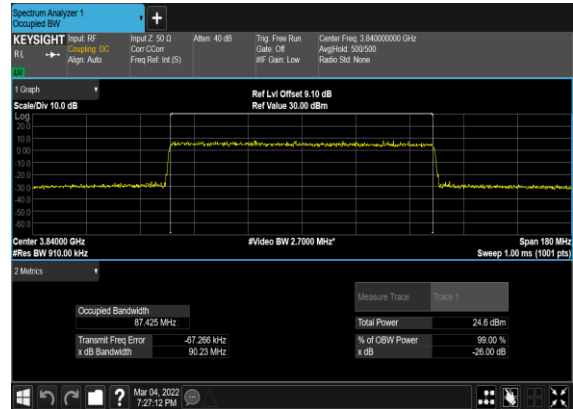
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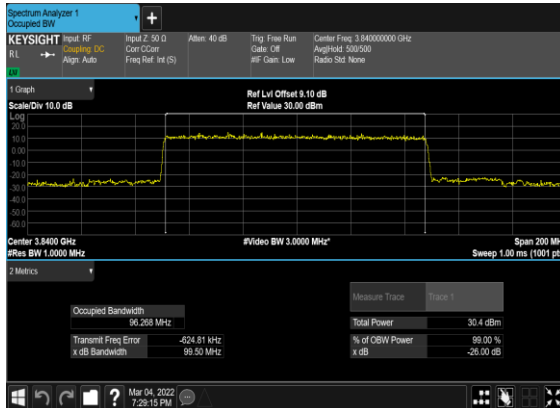
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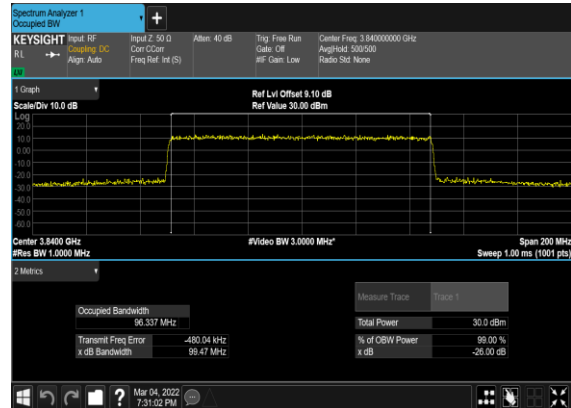
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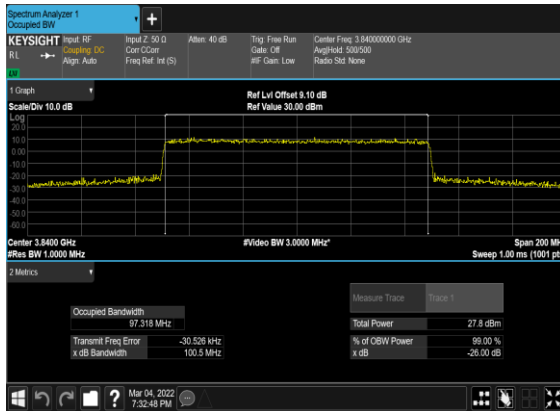
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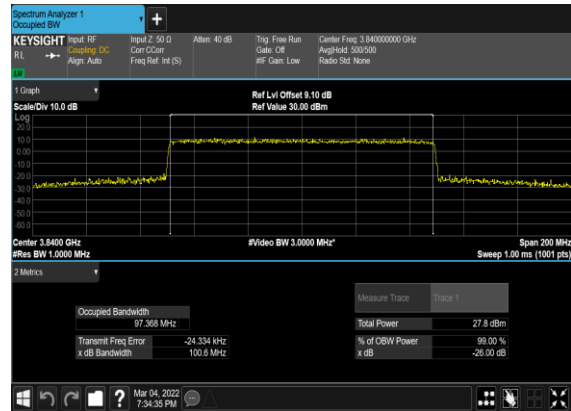
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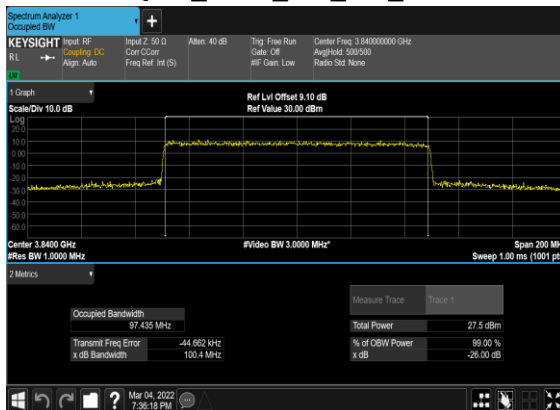
N77(100M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



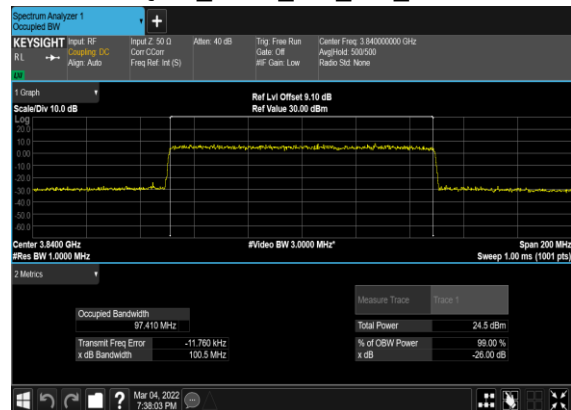
N77(100M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N77(100M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



N77(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
77	30	10	647000	3705.0	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	10	647000	3705.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	10	647000	3705.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	10	647000	3705.0	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	10	647000	3705.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	10	647000	3705.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	10	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	10	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	10	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	10	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	10	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	10	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	10	665000	3975.0	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	10	665000	3975.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	10	665000	3975.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	10	665000	3975.0	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	10	665000	3975.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	10	665000	3975.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	50	648334	3725.01	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	50	648334	3725.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	50	648334	3725.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	50	648334	3725.01	DFT-s-OFDM QPSK	1@0	see graph	---

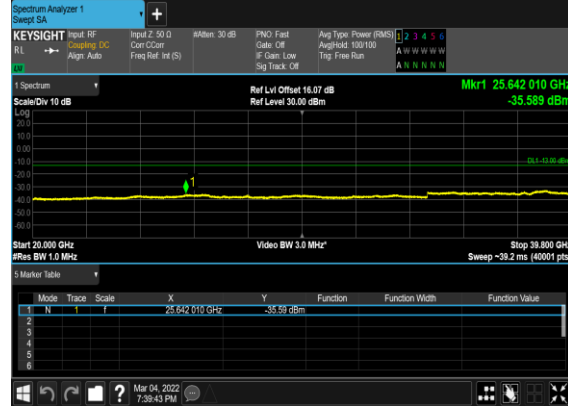
77	30	50	648334	3725.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	50	648334	3725.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	50	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	50	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	50	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	50	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	50	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	50	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	50	663666	3954.99	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	50	663666	3954.99	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	50	663666	3954.99	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	50	663666	3954.99	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	50	663666	3954.99	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	50	663666	3954.99	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	100	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	100	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	100	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	100	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	100	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	100	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	100	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	100	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	100	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	100	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	---

77	30	100	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	100	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	100	662000	3930.0	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	100	662000	3930.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	100	662000	3930.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	100	662000	3930.0	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	100	662000	3930.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	100	662000	3930.0	DFT-s-OFDM QPSK	1@0	see graph	PASS

N77(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



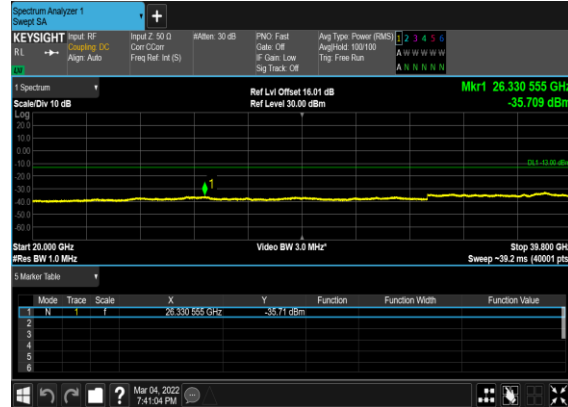
N77(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



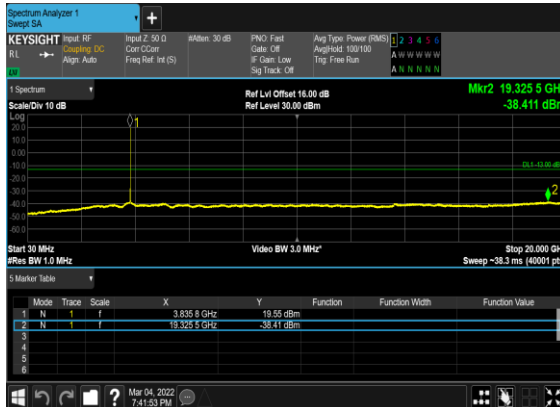
N77(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N77(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N77(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



N77(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH

