

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, Part 27 Subpart Q
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)
TEST DATE(S) : Feb. 28, 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
FG221602F	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	—	Report Only	-
3.5	§27.50 (k)(4)	Peak-to-Average Ratio	<13dB	PASS	
3.6	§27.50 (k)(3)	EIRP	EIRP < 1W (30dBm)	PASS	-
3.7	§2.1049	Occupied Bandwidth	—	Report Only	-
3.8	§2.1051 §27.53 (n)(2)	Conducted Band Edge Measurement	-13dBm/MHz	PASS	-
3.9	§2.1051 §27.53 (n)(2)	Conducted Spurious Emission	-13dBm/MHz	PASS	-
3.10	§2.1055 §27.54	Frequency Stability Temperature & Voltage	Within the band	PASS	-
4.4	§2.1053 §27.53 (n)(2)	Radiated Spurious Emission	-13dBm/MHz	PASS	Under limit 39.47 dB at 10667.52 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

Product Feature	
Tx/Rx Frequency	5G NR n77: 3450 MHz ~ 3550 MHz
Bandwidth	10MHz / 15MHz / 20MHz / 25MHz / 30MHz / 40MHz / 50MHz / 60MHz / 70MHz / 80MHz / 90MHz / 100MHz
SCS	30kHz
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 maximum EIRP is calculated from max output power and antenna gain, only the maximum EIRP of Ant. 4 is shown in the report.
2. 5G NR n77 supports SA mode only.

3. 5G NR n77 supports HPUE mode.

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	3455.01 ~ 3544.98	0.2466	8M58G7D	0.1936	8M58W7D
15	3457.50 ~ 3542.49	0.2460	13M6G7D	0.1941	13M6W7D
20	3460.02 ~ 3540.00	0.2455	18M2G7D	0.1963	18M2W7D
25	3462.51 ~ 3537.48	0.2421	23M2G7D	0.1897	23M2W7D
30	3465.00 ~ 3534.99	0.2427	27M8G7D	0.1914	27M9W7D
40	3470.01 ~ 3529.98	0.2399	37M8G7D	0.1905	37M8W7D
50	3475.02 ~ 3525.00	0.2421	47M4G7D	0.1910	47M5W7D
60	3480.00 ~ 3519.99	0.2415	57M9G7D	0.1928	57M8W7D
70	3485.01 ~ 3514.98	0.2466	67M4G7D	0.1954	67M5W7D
80	3490.02 ~ 3510.00	0.2466	77M4G7D	0.1941	77M5W7D
90	3495.00 ~ 3504.99	0.2432	87M3G7D	0.1936	87M4W7D
100	3500.01 ~ 3500.01	0.2415	97M3G7D	0.1932	97M4W7D

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

1.7 Testing Site

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 Applied Standards

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

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

Remark:

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

2 Test Configuration of Equipment Under Test

2.1 Test Mode

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

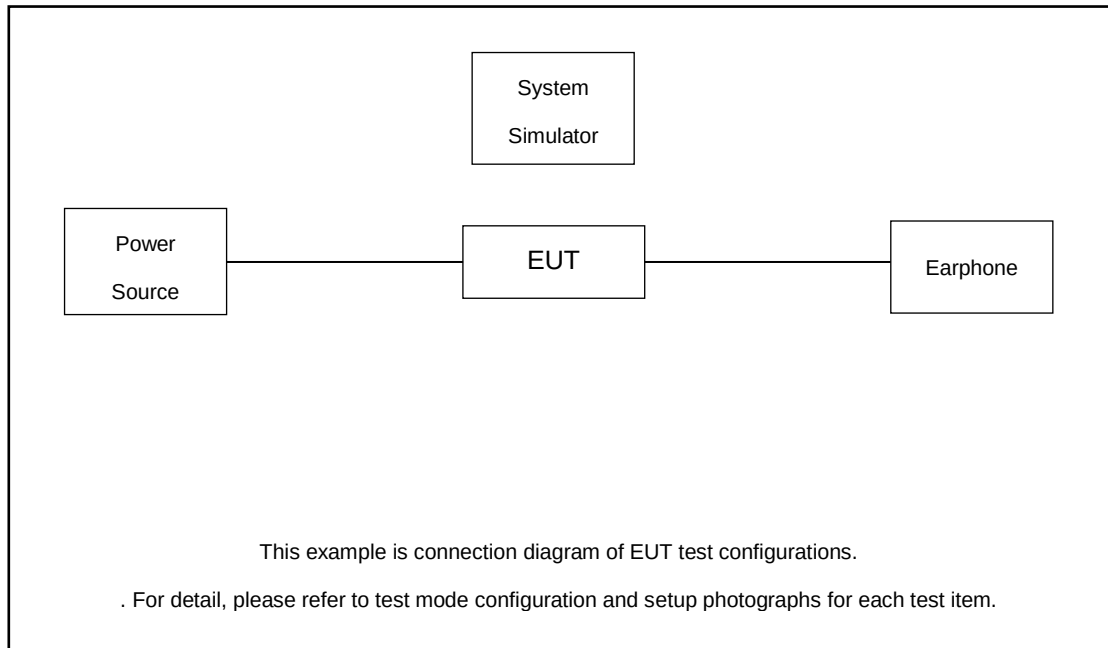
For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (X plane) were recorded in this report.

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.	Power Supply	GWINSTEK	PSS-2002	N/A	N/A	Unshielded, 1.8 m
2.	LTE Base Station	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
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 and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

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

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 6.08 dB and 10dB attenuator.

Example :

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)}. \\ &= 6.08 + 10 = 16.08 \text{ (dB)} \end{aligned}$$

2.5 Frequency List of Low/Middle/High Channels

5G n77 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
100	Channel	-	633334	-
	Frequency	-	3500.01	-
90	Channel	633000	633334	633666
	Frequency	3495.00	3500.01	3504.99
80	Channel	632668	633334	634000
	Frequency	3490.02	3500.01	3510.00
70	Channel	632334	633334	634332
	Frequency	3485.01	3500.01	3514.98
60	Channel	632000	633334	634666
	Frequency	3480.00	3500.01	3519.99
50	Channel	631668	633334	635000
	Frequency	3475.02	3500.01	3525.00
40	Channel	631334	633334	635332
	Frequency	3470.01	3500.01	3529.98
30	Channel	631000	633334	635666
	Frequency	3465	3500.01	3534.99
25	Channel	630834	633334	635832
	Frequency	3462.51	3500.01	3537.48
20	Channel	630668	633334	636000
	Frequency	3460.02	3500.01	3540.00
15	Channel	630500	633334	636166
	Frequency	3457.50	3500.01	3542.49
10	Channel	630334	633334	636332
	Frequency	3455.01	3500.01	3544.98

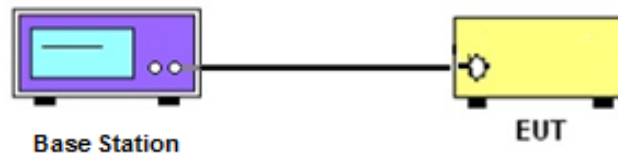
3 Conducted Test Items

3.1 Measuring Instruments

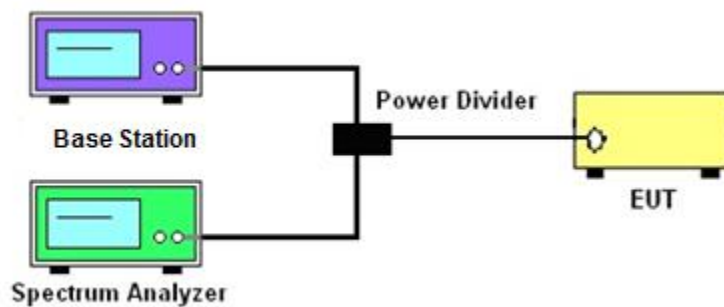
See list of measuring instruments of this test report.

3.2 Test Setup

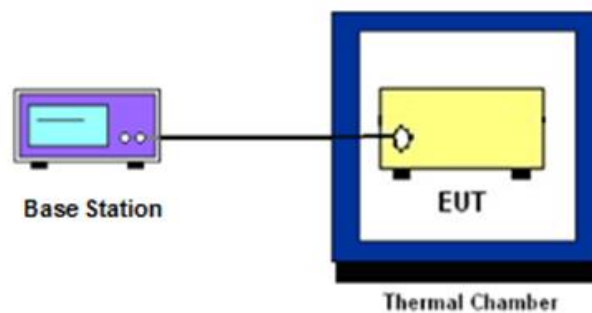
3.2.1 Conducted Output Power



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



3.2.3 Frequency Stability



3.3 Test Result of Conducted Test

Please refer to Appendix A.

3.4 Conducted Output Power Measurement

3.4.1 Description of the Conducted Output Power Measurement

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

3.4.2 Test Procedures

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

3.5 Peak-to-Average Ratio

3.5.1 Description of the PAR Measurement

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

3.5.2 Test Procedures

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

3.6 EIRP

3.6.1 Description of EIRP Limit

§ 27.50 (k)(3)

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

3.6.2 Test Procedures

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

3.7 Occupied Bandwidth

3.7.1 Description of Occupied Bandwidth Measurement

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

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

3.7.2 Test Procedures

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

3.8 Conducted Band Edge Measurement

3.8.1 Description of Conducted Band Edge Measurement

§ 27.53 (n)(2)

For mobile operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz.

Compliance with this paragraph is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed, but limited to a maximum of 200 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz.

3.8.2 Test Procedures

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

3.9 Conducted Spurious Emission Measurement

3.9.1 Description of Conducted Spurious Emission Measurement

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

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

3.9.2 Test Procedures

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

3.10 Frequency Stability Measurement

3.10.1 Description of Frequency Stability Measurement

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

3.10.2 Test Procedures for Temperature Variation

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

3.10.3 Test Procedures for Voltage Variation

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

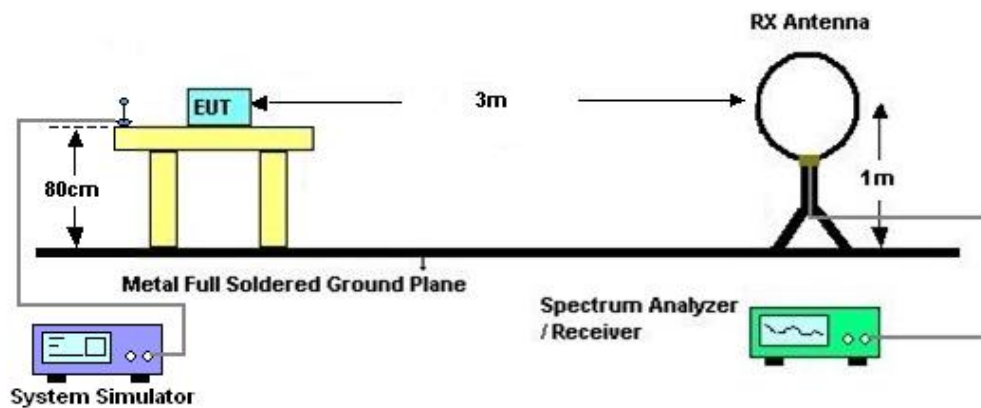
4 Radiated Test Items

4.1 Measuring Instruments

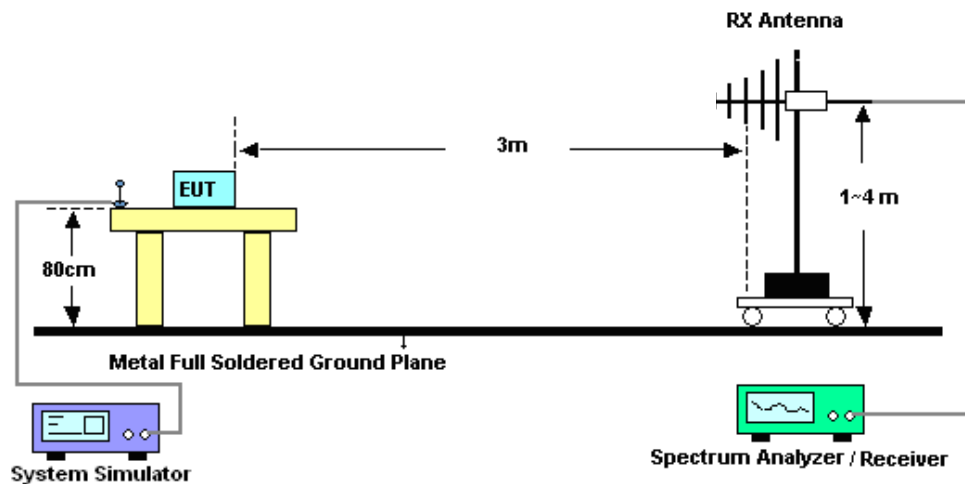
See list of measuring instruments of this test report.

4.2 Test Setup

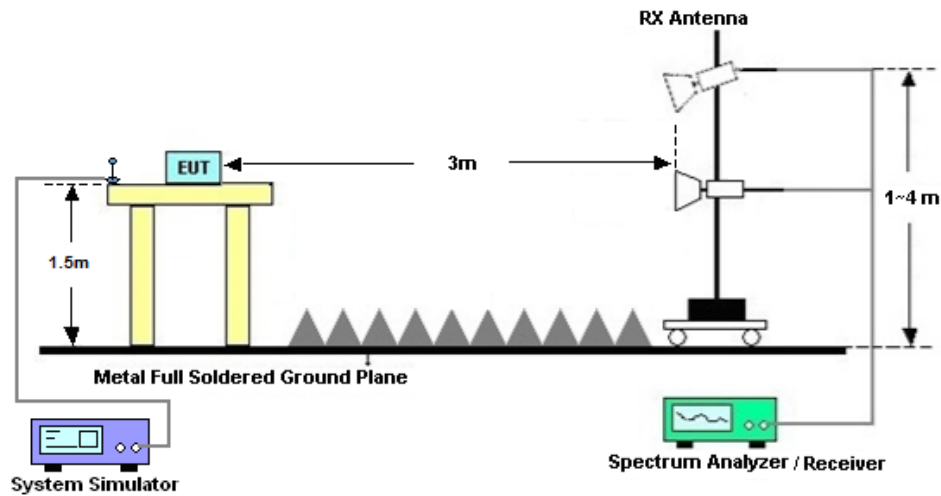
4.2.1 For radiated test below 30MHz



4.2.2 For radiated test from 30MHz to 1GHz



4.2.3 For radiated test above 1GHz



4.3 Test Result of Radiated Test

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

Please refer to Appendix B.

4.4 Radiated Spurious Emission Measurement

4.4.1 Description of Radiated Spurious Emission

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

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

4.4.2 Test Procedures

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

5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 08, 2021	Feb. 28, 2022	Apr. 07, 2022	Conducted (TH01-SZ)
Power Divider	TOJOIN	PS-2SM-04 265	60.06.020.007 7	0.4GHz~26.5GHz	Dec. 25, 2021	Feb. 28, 2022	Dec. 24, 2022	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhonggroup	LP-150U	H2014081803	-40~+150°C	Jul. 14, 2021	Feb. 28, 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% ($U = 2U_c(y)$)	2.48dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

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

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

Test Engineer :	Sam Zheng	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	630334	3455.01	DFT-s-OFDM PI/2 BPSK	12@6	25.79	23.79	0.2393
77	30	10	630334	3455.01	DFT-s-OFDM PI/2 BPSK	1@1	25.71	23.71	0.2350
77	30	10	630334	3455.01	DFT-s-OFDM PI/2 BPSK	1@22	25.67	23.67	0.2328
77	30	10	630334	3455.01	DFT-s-OFDM QPSK	12@6	25.8	23.8	0.2399
77	30	10	630334	3455.01	DFT-s-OFDM QPSK	1@1	25.75	23.75	0.2371
77	30	10	630334	3455.01	DFT-s-OFDM QPSK	1@22	25.68	23.68	0.2333
77	30	10	630334	3455.01	DFT-s-OFDM 16 QAM	12@6	24.8	22.8	0.1905
77	30	10	630334	3455.01	DFT-s-OFDM 16 QAM	1@1	24.55	22.55	0.1799
77	30	10	630334	3455.01	DFT-s-OFDM 16 QAM	1@22	24.54	22.54	0.1795
77	30	10	630334	3455.01	DFT-s-OFDM 64 QAM	12@6	23.25	21.25	0.1334
77	30	10	630334	3455.01	DFT-s-OFDM 64 QAM	1@1	23.13	21.13	0.1297
77	30	10	630334	3455.01	DFT-s-OFDM 64 QAM	1@22	23.24	21.24	0.1330
77	30	10	630334	3455.01	DFT-s-OFDM 256 QAM	12@6	21.21	19.21	0.0834
77	30	10	630334	3455.01	DFT-s-OFDM 256 QAM	1@1	20.79	18.79	0.0757
77	30	10	630334	3455.01	DFT-s-OFDM 256 QAM	1@22	20.67	18.67	0.0736
77	30	10	630334	3455.01	CP-OFDM QPSK	12@6	24.33	22.33	0.1710
77	30	10	630334	3455.01	CP-OFDM QPSK	1@1	24.13	22.13	0.1633
77	30	10	630334	3455.01	CP-OFDM QPSK	1@22	23.97	21.97	0.1574
77	30	10	633334	3500.01	DFT-s-OFDM PI/2 BPSK	12@6	25.8	23.8	0.2399
77	30	10	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	25.75	23.75	0.2371
77	30	10	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@22	25.71	23.71	0.2350
77	30	10	633334	3500.01	DFT-s-OFDM QPSK	12@6	25.85	23.85	0.2427
77	30	10	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.92	23.92	0.2466
77	30	10	633334	3500.01	DFT-s-OFDM QPSK	1@22	25.6	23.6	0.2291
77	30	10	633334	3500.01	DFT-s-OFDM 16 QAM	12@6	24.87	22.87	0.1936
77	30	10	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.69	22.69	0.1858
77	30	10	633334	3500.01	DFT-s-OFDM 16 QAM	1@22	24.63	22.63	0.1832
77	30	10	633334	3500.01	DFT-s-OFDM 64	12@6	23.31	21.31	0.1352

					QAM				
77	30	10	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	23.16	21.16	0.1306
77	30	10	633334	3500.01	DFT-s-OFDM 64 QAM	1@22	23.12	21.12	0.1294
77	30	10	633334	3500.01	DFT-s-OFDM 256 QAM	12@6	21.2	19.2	0.0832
77	30	10	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	20.73	18.73	0.0746
77	30	10	633334	3500.01	DFT-s-OFDM 256 QAM	1@22	20.81	18.81	0.0760
77	30	10	633334	3500.01	CP-OFDM QPSK	12@6	24.33	22.33	0.1710
77	30	10	633334	3500.01	CP-OFDM QPSK	1@1	24.07	22.07	0.1611
77	30	10	633334	3500.01	CP-OFDM QPSK	1@22	24.09	22.09	0.1618
77	30	10	636332	3544.98	DFT-s-OFDM PI/2 BPSK	12@6	25.87	23.87	0.2438
77	30	10	636332	3544.98	DFT-s-OFDM PI/2 BPSK	1@1	25.8	23.8	0.2399
77	30	10	636332	3544.98	DFT-s-OFDM PI/2 BPSK	1@22	25.75	23.75	0.2371
77	30	10	636332	3544.98	DFT-s-OFDM QPSK	12@6	25.87	23.87	0.2438
77	30	10	636332	3544.98	DFT-s-OFDM QPSK	1@1	25.79	23.79	0.2393
77	30	10	636332	3544.98	DFT-s-OFDM QPSK	1@22	25.81	23.81	0.2404
77	30	10	636332	3544.98	DFT-s-OFDM 16 QAM	12@6	24.87	22.87	0.1936
77	30	10	636332	3544.98	DFT-s-OFDM 16 QAM	1@1	24.8	22.8	0.1905
77	30	10	636332	3544.98	DFT-s-OFDM 16 QAM	1@22	24.56	22.56	0.1803
77	30	10	636332	3544.98	DFT-s-OFDM 64 QAM	12@6	23.38	21.38	0.1374
77	30	10	636332	3544.98	DFT-s-OFDM 64 QAM	1@1	23.25	21.25	0.1334
77	30	10	636332	3544.98	DFT-s-OFDM 64 QAM	1@22	23.33	21.33	0.1358
77	30	10	636332	3544.98	DFT-s-OFDM 256 QAM	12@6	21.36	19.36	0.0863
77	30	10	636332	3544.98	DFT-s-OFDM 256 QAM	1@1	21.11	19.11	0.0815
77	30	10	636332	3544.98	DFT-s-OFDM 256 QAM	1@22	21.09	19.09	0.0811
77	30	10	636332	3544.98	CP-OFDM QPSK	12@6	24.43	22.43	0.1750
77	30	10	636332	3544.98	CP-OFDM QPSK	1@1	24.22	22.22	0.1667
77	30	10	636332	3544.98	CP-OFDM QPSK	1@22	24.15	22.15	0.1641
77	30	15	630500	3457.5	DFT-s-OFDM PI/2 BPSK	18@9	25.78	23.78	0.2388
77	30	15	630500	3457.5	DFT-s-OFDM PI/2 BPSK	1@1	25.7	23.7	0.2344
77	30	15	630500	3457.5	DFT-s-OFDM PI/2 BPSK	1@36	25.67	23.67	0.2328
77	30	15	630500	3457.5	DFT-s-OFDM QPSK	18@9	25.8	23.8	0.2399
77	30	15	630500	3457.5	DFT-s-OFDM QPSK	1@1	25.81	23.81	0.2404
77	30	15	630500	3457.5	DFT-s-OFDM QPSK	1@36	25.71	23.71	0.2350
77	30	15	630500	3457.5	DFT-s-OFDM 16 QAM	18@9	24.81	22.81	0.1910

77	30	15	630500	3457.5	DFT-s-OFDM 16 QAM	1@1	24.65	22.65	0.1841
77	30	15	630500	3457.5	DFT-s-OFDM 16 QAM	1@36	24.54	22.54	0.1795
77	30	15	630500	3457.5	DFT-s-OFDM 64 QAM	18@9	23.35	21.35	0.1365
77	30	15	630500	3457.5	DFT-s-OFDM 64 QAM	1@1	23.16	21.16	0.1306
77	30	15	630500	3457.5	DFT-s-OFDM 64 QAM	1@36	23.12	21.12	0.1294
77	30	15	630500	3457.5	DFT-s-OFDM 256 QAM	18@9	21.25	19.25	0.0841
77	30	15	630500	3457.5	DFT-s-OFDM 256 QAM	1@1	20.7	18.7	0.0741
77	30	15	630500	3457.5	DFT-s-OFDM 256 QAM	1@36	20.92	18.92	0.0780
77	30	15	630500	3457.5	CP-OFDM QPSK	19@9	24.27	22.27	0.1687
77	30	15	630500	3457.5	CP-OFDM QPSK	1@1	24.06	22.06	0.1607
77	30	15	630500	3457.5	CP-OFDM QPSK	1@36	24.12	22.12	0.1629
77	30	15	633334	3500.01	DFT-s-OFDM PI/2 BPSK	18@9	25.83	23.83	0.2415
77	30	15	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	25.7	23.7	0.2344
77	30	15	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@36	25.7	23.7	0.2344
77	30	15	633334	3500.01	DFT-s-OFDM QPSK	18@9	25.86	23.86	0.2432
77	30	15	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.76	23.76	0.2377
77	30	15	633334	3500.01	DFT-s-OFDM QPSK	1@36	25.9	23.9	0.2455
77	30	15	633334	3500.01	DFT-s-OFDM 16 QAM	18@9	24.8	22.8	0.1905
77	30	15	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.54	22.54	0.1795
77	30	15	633334	3500.01	DFT-s-OFDM 16 QAM	1@36	24.66	22.66	0.1845
77	30	15	633334	3500.01	DFT-s-OFDM 64 QAM	18@9	23.31	21.31	0.1352
77	30	15	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	23.19	21.19	0.1315
77	30	15	633334	3500.01	DFT-s-OFDM 64 QAM	1@36	23.14	21.14	0.1300
77	30	15	633334	3500.01	DFT-s-OFDM 256 QAM	18@9	21.32	19.32	0.0855
77	30	15	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	20.73	18.73	0.0746
77	30	15	633334	3500.01	DFT-s-OFDM 256 QAM	1@36	20.78	18.78	0.0755
77	30	15	633334	3500.01	CP-OFDM QPSK	19@9	24.32	22.32	0.1706
77	30	15	633334	3500.01	CP-OFDM QPSK	1@1	24.11	22.11	0.1626
77	30	15	633334	3500.01	CP-OFDM QPSK	1@36	24.24	22.24	0.1675
77	30	15	636166	3542.49	DFT-s-OFDM PI/2 BPSK	18@9	25.91	23.91	0.2460
77	30	15	636166	3542.49	DFT-s-OFDM PI/2 BPSK	1@1	25.81	23.81	0.2404
77	30	15	636166	3542.49	DFT-s-OFDM PI/2 BPSK	1@36	25.78	23.78	0.2388
77	30	15	636166	3542.49	DFT-s-OFDM QPSK	18@9	25.89	23.89	0.2449
77	30	15	636166	3542.49	DFT-s-OFDM QPSK	1@1	25.76	23.76	0.2377

77	30	15	636166	3542.49	DFT-s-OFDM QPSK	1@36	25.8	23.8	0.2399
77	30	15	636166	3542.49	DFT-s-OFDM 16 QAM	18@9	24.88	22.88	0.1941
77	30	15	636166	3542.49	DFT-s-OFDM 16 QAM	1@1	24.71	22.71	0.1866
77	30	15	636166	3542.49	DFT-s-OFDM 16 QAM	1@36	24.61	22.61	0.1824
77	30	15	636166	3542.49	DFT-s-OFDM 64 QAM	18@9	23.42	21.42	0.1387
77	30	15	636166	3542.49	DFT-s-OFDM 64 QAM	1@1	23.23	21.23	0.1327
77	30	15	636166	3542.49	DFT-s-OFDM 64 QAM	1@36	23.18	21.18	0.1312
77	30	15	636166	3542.49	DFT-s-OFDM 256 QAM	18@9	21.37	19.37	0.0865
77	30	15	636166	3542.49	DFT-s-OFDM 256 QAM	1@1	20.8	18.8	0.0759
77	30	15	636166	3542.49	DFT-s-OFDM 256 QAM	1@36	21.08	19.08	0.0809
77	30	15	636166	3542.49	CP-OFDM QPSK	19@9	24.36	22.36	0.1722
77	30	15	636166	3542.49	CP-OFDM QPSK	1@1	24.25	22.25	0.1679
77	30	15	636166	3542.49	CP-OFDM QPSK	1@36	24.18	22.18	0.1652
77	30	20	630668	3460.02	DFT-s-OFDM PI/2 BPSK	25@12	25.8	23.8	0.2399
77	30	20	630668	3460.02	DFT-s-OFDM PI/2 BPSK	1@1	25.62	23.62	0.2301
77	30	20	630668	3460.02	DFT-s-OFDM PI/2 BPSK	1@49	25.59	23.59	0.2286
77	30	20	630668	3460.02	DFT-s-OFDM QPSK	25@12	25.84	23.84	0.2421
77	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@1	25.64	23.64	0.2312
77	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@49	25.61	23.61	0.2296
77	30	20	630668	3460.02	DFT-s-OFDM 16 QAM	25@12	24.87	22.87	0.1936
77	30	20	630668	3460.02	DFT-s-OFDM 16 QAM	1@1	24.58	22.58	0.1811
77	30	20	630668	3460.02	DFT-s-OFDM 16 QAM	1@49	24.49	22.49	0.1774
77	30	20	630668	3460.02	DFT-s-OFDM 64 QAM	25@12	23.26	21.26	0.1337
77	30	20	630668	3460.02	DFT-s-OFDM 64 QAM	1@1	23.28	21.28	0.1343
77	30	20	630668	3460.02	DFT-s-OFDM 64 QAM	1@49	23.07	21.07	0.1279
77	30	20	630668	3460.02	DFT-s-OFDM 256 QAM	25@12	21.2	19.2	0.0832
77	30	20	630668	3460.02	DFT-s-OFDM 256 QAM	1@1	20.7	18.7	0.0741
77	30	20	630668	3460.02	DFT-s-OFDM 256 QAM	1@49	20.64	18.64	0.0731
77	30	20	630668	3460.02	CP-OFDM QPSK	25@12	24.27	22.27	0.1687
77	30	20	630668	3460.02	CP-OFDM QPSK	1@1	24.04	22.04	0.1600
77	30	20	630668	3460.02	CP-OFDM QPSK	1@49	23.95	21.95	0.1567
77	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	25@12	25.83	23.83	0.2415
77	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	25.64	23.64	0.2312
77	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@49	25.6	23.6	0.2291

77	30	20	633334	3500.01	DFT-s-OFDM QPSK	25@12	25.87	23.87	0.2438
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.72	23.72	0.2355
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@49	25.61	23.61	0.2296
77	30	20	633334	3500.01	DFT-s-OFDM 16 QAM	25@12	24.87	22.87	0.1936
77	30	20	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.52	22.52	0.1786
77	30	20	633334	3500.01	DFT-s-OFDM 16 QAM	1@49	24.48	22.48	0.1770
77	30	20	633334	3500.01	DFT-s-OFDM 64 QAM	25@12	23.32	21.32	0.1355
77	30	20	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	23.11	21.11	0.1291
77	30	20	633334	3500.01	DFT-s-OFDM 64 QAM	1@49	23.04	21.04	0.1271
77	30	20	633334	3500.01	DFT-s-OFDM 256 QAM	25@12	21.26	19.26	0.0843
77	30	20	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	20.97	18.97	0.0789
77	30	20	633334	3500.01	DFT-s-OFDM 256 QAM	1@49	20.93	18.93	0.0782
77	30	20	633334	3500.01	CP-OFDM QPSK	25@12	24.33	22.33	0.1710
77	30	20	633334	3500.01	CP-OFDM QPSK	1@1	24.23	22.23	0.1671
77	30	20	633334	3500.01	CP-OFDM QPSK	1@49	24.11	22.11	0.1626
77	30	20	636000	3540	DFT-s-OFDM PI/2 BPSK	25@12	25.89	23.89	0.2449
77	30	20	636000	3540	DFT-s-OFDM PI/2 BPSK	1@1	25.68	23.68	0.2333
77	30	20	636000	3540	DFT-s-OFDM PI/2 BPSK	1@49	25.62	23.62	0.2301
77	30	20	636000	3540	DFT-s-OFDM QPSK	25@12	25.9	23.9	0.2455
77	30	20	636000	3540	DFT-s-OFDM QPSK	1@1	25.67	23.67	0.2328
77	30	20	636000	3540	DFT-s-OFDM QPSK	1@49	25.63	23.63	0.2307
77	30	20	636000	3540	DFT-s-OFDM 16 QAM	25@12	24.93	22.93	0.1963
77	30	20	636000	3540	DFT-s-OFDM 16 QAM	1@1	24.61	22.61	0.1824
77	30	20	636000	3540	DFT-s-OFDM 16 QAM	1@49	24.6	22.6	0.1820
77	30	20	636000	3540	DFT-s-OFDM 64 QAM	25@12	23.35	21.35	0.1365
77	30	20	636000	3540	DFT-s-OFDM 64 QAM	1@1	23.11	21.11	0.1291
77	30	20	636000	3540	DFT-s-OFDM 64 QAM	1@49	22.99	20.99	0.1256
77	30	20	636000	3540	DFT-s-OFDM 256 QAM	25@12	21.35	19.35	0.0861
77	30	20	636000	3540	DFT-s-OFDM 256 QAM	1@1	20.78	18.78	0.0755
77	30	20	636000	3540	DFT-s-OFDM 256 QAM	1@49	20.75	18.75	0.0750
77	30	20	636000	3540	CP-OFDM QPSK	25@12	24.41	22.41	0.1742
77	30	20	636000	3540	CP-OFDM QPSK	1@1	24.11	22.11	0.1626
77	30	20	636000	3540	CP-OFDM QPSK	1@49	24.18	22.18	0.1652
77	30	25	630834	3462.51	DFT-s-OFDM PI/2 BPSK	32@16	25.8	23.8	0.2399

77	30	25	630834	3462.51	DFT-s-OFDM PI/2 BPSK	1@1	25.58	23.58	0.2280
77	30	25	630834	3462.51	DFT-s-OFDM PI/2 BPSK	1@63	25.47	23.47	0.2223
77	30	25	630834	3462.51	DFT-s-OFDM QPSK	32@16	25.8	23.8	0.2399
77	30	25	630834	3462.51	DFT-s-OFDM QPSK	1@1	25.64	23.64	0.2312
77	30	25	630834	3462.51	DFT-s-OFDM QPSK	1@63	25.57	23.57	0.2275
77	30	25	630834	3462.51	DFT-s-OFDM 16 QAM	32@16	24.78	22.78	0.1897
77	30	25	630834	3462.51	DFT-s-OFDM 16 QAM	1@1	24.56	22.56	0.1803
77	30	25	630834	3462.51	DFT-s-OFDM 16 QAM	1@63	24.41	22.41	0.1742
77	30	25	630834	3462.51	DFT-s-OFDM 64 QAM	32@16	23.26	21.26	0.1337
77	30	25	630834	3462.51	DFT-s-OFDM 64 QAM	1@1	23.2	21.2	0.1318
77	30	25	630834	3462.51	DFT-s-OFDM 64 QAM	1@63	23.14	21.14	0.1300
77	30	25	630834	3462.51	DFT-s-OFDM 256 QAM	32@16	21.22	19.22	0.0836
77	30	25	630834	3462.51	DFT-s-OFDM 256 QAM	1@1	21.25	19.25	0.0841
77	30	25	630834	3462.51	DFT-s-OFDM 256 QAM	1@63	21.15	19.15	0.0822
77	30	25	630834	3462.51	CP-OFDM QPSK	33@16	24.24	22.24	0.1675
77	30	25	630834	3462.51	CP-OFDM QPSK	1@1	24.04	22.04	0.1600
77	30	25	630834	3462.51	CP-OFDM QPSK	1@63	23.93	21.93	0.1560
77	30	25	633334	3500.01	DFT-s-OFDM PI/2 BPSK	32@16	25.78	23.78	0.2388
77	30	25	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	25.6	23.6	0.2291
77	30	25	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@63	25.47	23.47	0.2223
77	30	25	633334	3500.01	DFT-s-OFDM QPSK	32@16	25.82	23.82	0.2410
77	30	25	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.64	23.64	0.2312
77	30	25	633334	3500.01	DFT-s-OFDM QPSK	1@63	25.64	23.64	0.2312
77	30	25	633334	3500.01	DFT-s-OFDM 16 QAM	32@16	24.87	22.87	0.1936
77	30	25	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.54	22.54	0.1795
77	30	25	633334	3500.01	DFT-s-OFDM 16 QAM	1@63	24.36	22.36	0.1722
77	30	25	633334	3500.01	DFT-s-OFDM 64 QAM	32@16	23.3	21.3	0.1349
77	30	25	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	23.12	21.12	0.1294
77	30	25	633334	3500.01	DFT-s-OFDM 64 QAM	1@63	23.01	21.01	0.1262
77	30	25	633334	3500.01	DFT-s-OFDM 256 QAM	32@16	21.32	19.32	0.0855
77	30	25	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	20.71	18.71	0.0743
77	30	25	633334	3500.01	DFT-s-OFDM 256 QAM	1@63	20.57	18.57	0.0719
77	30	25	633334	3500.01	CP-OFDM QPSK	33@16	24.29	22.29	0.1694
77	30	25	633334	3500.01	CP-OFDM QPSK	1@1	24.01	22.01	0.1589

77	30	25	633334	3500.01	CP-OFDM QPSK	1@63	23.96	21.96	0.1570
77	30	25	635832	3537.48	DFT-s-OFDM PI/2 BPSK	32@16	25.8	23.8	0.2399
77	30	25	635832	3537.48	DFT-s-OFDM PI/2 BPSK	1@1	25.56	23.56	0.2270
77	30	25	635832	3537.48	DFT-s-OFDM PI/2 BPSK	1@63	25.53	23.53	0.2254
77	30	25	635832	3537.48	DFT-s-OFDM QPSK	32@16	25.84	23.84	0.2421
77	30	25	635832	3537.48	DFT-s-OFDM QPSK	1@1	25.67	23.67	0.2328
77	30	25	635832	3537.48	DFT-s-OFDM QPSK	1@63	25.61	23.61	0.2296
77	30	25	635832	3537.48	DFT-s-OFDM 16 QAM	32@16	24.82	22.82	0.1914
77	30	25	635832	3537.48	DFT-s-OFDM 16 QAM	1@1	24.47	22.47	0.1766
77	30	25	635832	3537.48	DFT-s-OFDM 16 QAM	1@63	24.36	22.36	0.1722
77	30	25	635832	3537.48	DFT-s-OFDM 64 QAM	32@16	23.34	21.34	0.1361
77	30	25	635832	3537.48	DFT-s-OFDM 64 QAM	1@1	23.05	21.05	0.1274
77	30	25	635832	3537.48	DFT-s-OFDM 64 QAM	1@63	22.98	20.98	0.1253
77	30	25	635832	3537.48	DFT-s-OFDM 256 QAM	32@16	21.28	19.28	0.0847
77	30	25	635832	3537.48	DFT-s-OFDM 256 QAM	1@1	20.7	18.7	0.0741
77	30	25	635832	3537.48	DFT-s-OFDM 256 QAM	1@63	20.54	18.54	0.0714
77	30	25	635832	3537.48	CP-OFDM QPSK	33@16	24.29	22.29	0.1694
77	30	25	635832	3537.48	CP-OFDM QPSK	1@1	24.01	22.01	0.1589
77	30	25	635832	3537.48	CP-OFDM QPSK	1@63	23.96	21.96	0.1570
77	30	30	631000	3465	DFT-s-OFDM PI/2 BPSK	36@18	25.77	23.77	0.2382
77	30	30	631000	3465	DFT-s-OFDM PI/2 BPSK	1@1	25.45	23.45	0.2213
77	30	30	631000	3465	DFT-s-OFDM PI/2 BPSK	1@76	25.43	23.43	0.2203
77	30	30	631000	3465	DFT-s-OFDM QPSK	36@18	25.84	23.84	0.2421
77	30	30	631000	3465	DFT-s-OFDM QPSK	1@1	25.54	23.54	0.2259
77	30	30	631000	3465	DFT-s-OFDM QPSK	1@76	25.47	23.47	0.2223
77	30	30	631000	3465	DFT-s-OFDM 16 QAM	36@18	24.75	22.75	0.1884
77	30	30	631000	3465	DFT-s-OFDM 16 QAM	1@1	24.45	22.45	0.1758
77	30	30	631000	3465	DFT-s-OFDM 16 QAM	1@76	24.24	22.24	0.1675
77	30	30	631000	3465	DFT-s-OFDM 64 QAM	36@18	23.31	21.31	0.1352
77	30	30	631000	3465	DFT-s-OFDM 64 QAM	1@1	22.96	20.96	0.1247
77	30	30	631000	3465	DFT-s-OFDM 64 QAM	1@76	22.87	20.87	0.1222
77	30	30	631000	3465	DFT-s-OFDM 256 QAM	36@18	21.25	19.25	0.0841
77	30	30	631000	3465	DFT-s-OFDM 256 QAM	1@1	20.88	18.88	0.0773
77	30	30	631000	3465	DFT-s-OFDM 256 QAM	1@76	20.44	18.44	0.0698

77	30	30	631000	3465	CP-OFDM QPSK	39@19	24.25	22.25	0.1679
77	30	30	631000	3465	CP-OFDM QPSK	1@1	24	22	0.1585
77	30	30	631000	3465	CP-OFDM QPSK	1@76	23.89	21.89	0.1545
77	30	30	633334	3500.01	DFT-s-OFDM PI/2 BPSK	36@18	25.8	23.8	0.2399
77	30	30	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	25.52	23.52	0.2249
77	30	30	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@76	25.44	23.44	0.2208
77	30	30	633334	3500.01	DFT-s-OFDM QPSK	36@18	25.85	23.85	0.2427
77	30	30	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.58	23.58	0.2280
77	30	30	633334	3500.01	DFT-s-OFDM QPSK	1@76	25.4	23.4	0.2188
77	30	30	633334	3500.01	DFT-s-OFDM 16 QAM	36@18	24.75	22.75	0.1884
77	30	30	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.49	22.49	0.1774
77	30	30	633334	3500.01	DFT-s-OFDM 16 QAM	1@76	24.26	22.26	0.1683
77	30	30	633334	3500.01	DFT-s-OFDM 64 QAM	36@18	23.34	21.34	0.1361
77	30	30	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	23.01	21.01	0.1262
77	30	30	633334	3500.01	DFT-s-OFDM 64 QAM	1@76	22.88	20.88	0.1225
77	30	30	633334	3500.01	DFT-s-OFDM 256 QAM	36@18	21.28	19.28	0.0847
77	30	30	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	20.9	18.9	0.0776
77	30	30	633334	3500.01	DFT-s-OFDM 256 QAM	1@76	20.5	18.5	0.0708
77	30	30	633334	3500.01	CP-OFDM QPSK	39@19	24.29	22.29	0.1694
77	30	30	633334	3500.01	CP-OFDM QPSK	1@1	23.9	21.9	0.1549
77	30	30	633334	3500.01	CP-OFDM QPSK	1@76	23.83	21.83	0.1524
77	30	30	635666	3534.99	DFT-s-OFDM PI/2 BPSK	36@18	25.8	23.8	0.2399
77	30	30	635666	3534.99	DFT-s-OFDM PI/2 BPSK	1@1	25.53	23.53	0.2254
77	30	30	635666	3534.99	DFT-s-OFDM PI/2 BPSK	1@76	25.41	23.41	0.2193
77	30	30	635666	3534.99	DFT-s-OFDM QPSK	36@18	25.84	23.84	0.2421
77	30	30	635666	3534.99	DFT-s-OFDM QPSK	1@1	25.77	23.77	0.2382
77	30	30	635666	3534.99	DFT-s-OFDM QPSK	1@76	25.67	23.67	0.2328
77	30	30	635666	3534.99	DFT-s-OFDM 16 QAM	36@18	24.82	22.82	0.1914
77	30	30	635666	3534.99	DFT-s-OFDM 16 QAM	1@1	24.41	22.41	0.1742
77	30	30	635666	3534.99	DFT-s-OFDM 16 QAM	1@76	24.3	22.3	0.1698
77	30	30	635666	3534.99	DFT-s-OFDM 64 QAM	36@18	23.33	21.33	0.1358
77	30	30	635666	3534.99	DFT-s-OFDM 64 QAM	1@1	23	21	0.1259
77	30	30	635666	3534.99	DFT-s-OFDM 64 QAM	1@76	22.92	20.92	0.1236
77	30	30	635666	3534.99	DFT-s-OFDM 256 QAM	36@18	21.28	19.28	0.0847

77	30	30	635666	3534.99	DFT-s-OFDM 256 QAM	1@1	21.18	19.18	0.0828
77	30	30	635666	3534.99	DFT-s-OFDM 256 QAM	1@76	21.08	19.08	0.0809
77	30	30	635666	3534.99	CP-OFDM QPSK	39@19	24.32	22.32	0.1706
77	30	30	635666	3534.99	CP-OFDM QPSK	1@1	23.97	21.97	0.1574
77	30	30	635666	3534.99	CP-OFDM QPSK	1@76	23.83	21.83	0.1524
77	30	40	631334	3470.01	DFT-s-OFDM PI/2 BPSK	50@25	25.74	23.74	0.2366
77	30	40	631334	3470.01	DFT-s-OFDM PI/2 BPSK	1@1	25.29	23.29	0.2133
77	30	40	631334	3470.01	DFT-s-OFDM PI/2 BPSK	1@104	25.22	23.22	0.2099
77	30	40	631334	3470.01	DFT-s-OFDM QPSK	50@25	25.78	23.78	0.2388
77	30	40	631334	3470.01	DFT-s-OFDM QPSK	1@1	25.33	23.33	0.2153
77	30	40	631334	3470.01	DFT-s-OFDM QPSK	1@104	25.24	23.24	0.2109
77	30	40	631334	3470.01	DFT-s-OFDM 16 QAM	50@25	24.76	22.76	0.1888
77	30	40	631334	3470.01	DFT-s-OFDM 16 QAM	1@1	24.33	22.33	0.1710
77	30	40	631334	3470.01	DFT-s-OFDM 16 QAM	1@104	24.17	22.17	0.1648
77	30	40	631334	3470.01	DFT-s-OFDM 64 QAM	50@25	23.24	21.24	0.1330
77	30	40	631334	3470.01	DFT-s-OFDM 64 QAM	1@1	22.76	20.76	0.1191
77	30	40	631334	3470.01	DFT-s-OFDM 64 QAM	1@104	22.92	20.92	0.1236
77	30	40	631334	3470.01	DFT-s-OFDM 256 QAM	50@25	21.22	19.22	0.0836
77	30	40	631334	3470.01	DFT-s-OFDM 256 QAM	1@1	20.35	18.35	0.0684
77	30	40	631334	3470.01	DFT-s-OFDM 256 QAM	1@104	20.46	18.46	0.0701
77	30	40	631334	3470.01	CP-OFDM QPSK	53@26	24.18	22.18	0.1652
77	30	40	631334	3470.01	CP-OFDM QPSK	1@1	23.74	21.74	0.1493
77	30	40	631334	3470.01	CP-OFDM QPSK	1@104	23.69	21.69	0.1476
77	30	40	633334	3500.01	DFT-s-OFDM PI/2 BPSK	50@25	25.77	23.77	0.2382
77	30	40	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	25.28	23.28	0.2128
77	30	40	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@104	25.15	23.15	0.2065
77	30	40	633334	3500.01	DFT-s-OFDM QPSK	50@25	25.78	23.78	0.2388
77	30	40	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.35	23.35	0.2163
77	30	40	633334	3500.01	DFT-s-OFDM QPSK	1@104	25.27	23.27	0.2123
77	30	40	633334	3500.01	DFT-s-OFDM 16 QAM	50@25	24.8	22.8	0.1905
77	30	40	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.25	22.25	0.1679
77	30	40	633334	3500.01	DFT-s-OFDM 16 QAM	1@104	24.1	22.1	0.1622
77	30	40	633334	3500.01	DFT-s-OFDM 64 QAM	50@25	23.26	21.26	0.1337
77	30	40	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	22.79	20.79	0.1199

77	30	40	633334	3500.01	DFT-s-OFDM 64 QAM	1@104	22.63	20.63	0.1156
77	30	40	633334	3500.01	DFT-s-OFDM 256 QAM	50@25	21.25	19.25	0.0841
77	30	40	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	20.38	18.38	0.0689
77	30	40	633334	3500.01	DFT-s-OFDM 256 QAM	1@104	20.25	18.25	0.0668
77	30	40	633334	3500.01	CP-OFDM QPSK	53@26	24.24	22.24	0.1675
77	30	40	633334	3500.01	CP-OFDM QPSK	1@1	23.73	21.73	0.1489
77	30	40	633334	3500.01	CP-OFDM QPSK	1@104	23.75	21.75	0.1496
77	30	40	635332	3529.98	DFT-s-OFDM PI/2 BPSK	50@25	25.43	23.43	0.2203
77	30	40	635332	3529.98	DFT-s-OFDM PI/2 BPSK	1@1	25.24	23.24	0.2109
77	30	40	635332	3529.98	DFT-s-OFDM PI/2 BPSK	1@104	25.16	23.16	0.2070
77	30	40	635332	3529.98	DFT-s-OFDM QPSK	50@25	25.8	23.8	0.2399
77	30	40	635332	3529.98	DFT-s-OFDM QPSK	1@1	25.45	23.45	0.2213
77	30	40	635332	3529.98	DFT-s-OFDM QPSK	1@104	25.53	23.53	0.2254
77	30	40	635332	3529.98	DFT-s-OFDM 16 QAM	50@25	24.78	22.78	0.1897
77	30	40	635332	3529.98	DFT-s-OFDM 16 QAM	1@1	24.21	22.21	0.1663
77	30	40	635332	3529.98	DFT-s-OFDM 16 QAM	1@104	24.14	22.14	0.1637
77	30	40	635332	3529.98	DFT-s-OFDM 64 QAM	50@25	23.25	21.25	0.1334
77	30	40	635332	3529.98	DFT-s-OFDM 64 QAM	1@1	23.01	21.01	0.1262
77	30	40	635332	3529.98	DFT-s-OFDM 64 QAM	1@104	22.62	20.62	0.1153
77	30	40	635332	3529.98	DFT-s-OFDM 256 QAM	50@25	21.24	19.24	0.0839
77	30	40	635332	3529.98	DFT-s-OFDM 256 QAM	1@1	20.33	18.33	0.0681
77	30	40	635332	3529.98	DFT-s-OFDM 256 QAM	1@104	20.57	18.57	0.0719
77	30	40	635332	3529.98	CP-OFDM QPSK	53@26	24.2	22.2	0.1660
77	30	40	635332	3529.98	CP-OFDM QPSK	1@1	23.71	21.71	0.1483
77	30	40	635332	3529.98	CP-OFDM QPSK	1@104	23.64	21.64	0.1459
77	30	50	631668	3475.02	DFT-s-OFDM PI/2 BPSK	64@32	25.8	23.8	0.2399
77	30	50	631668	3475.02	DFT-s-OFDM PI/2 BPSK	1@1	25.49	23.49	0.2234
77	30	50	631668	3475.02	DFT-s-OFDM PI/2 BPSK	1@131	25.4	23.4	0.2188
77	30	50	631668	3475.02	DFT-s-OFDM QPSK	64@32	25.83	23.83	0.2415
77	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@1	25.62	23.62	0.2301
77	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@131	25.5	23.5	0.2239
77	30	50	631668	3475.02	DFT-s-OFDM 16 QAM	64@32	24.8	22.8	0.1905
77	30	50	631668	3475.02	DFT-s-OFDM 16 QAM	1@1	24.44	22.44	0.1754
77	30	50	631668	3475.02	DFT-s-OFDM 16 QAM	1@131	24.23	22.23	0.1671

77	30	50	631668	3475.02	DFT-s-OFDM 64 QAM	64@32	23.26	21.26	0.1337
77	30	50	631668	3475.02	DFT-s-OFDM 64 QAM	1@1	22.89	20.89	0.1227
77	30	50	631668	3475.02	DFT-s-OFDM 64 QAM	1@131	22.87	20.87	0.1222
77	30	50	631668	3475.02	DFT-s-OFDM 256 QAM	64@32	21.27	19.27	0.0845
77	30	50	631668	3475.02	DFT-s-OFDM 256 QAM	1@1	20.84	18.84	0.0766
77	30	50	631668	3475.02	DFT-s-OFDM 256 QAM	1@131	20.42	18.42	0.0695
77	30	50	631668	3475.02	CP-OFDM QPSK	67@33	24.27	22.27	0.1687
77	30	50	631668	3475.02	CP-OFDM QPSK	1@1	23.98	21.98	0.1578
77	30	50	631668	3475.02	CP-OFDM QPSK	1@131	23.9	21.9	0.1549
77	30	50	633334	3500.01	DFT-s-OFDM PI/2 BPSK	64@32	25.78	23.78	0.2388
77	30	50	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	25.48	23.48	0.2228
77	30	50	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@131	25.35	23.35	0.2163
77	30	50	633334	3500.01	DFT-s-OFDM QPSK	64@32	25.83	23.83	0.2415
77	30	50	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.59	23.59	0.2286
77	30	50	633334	3500.01	DFT-s-OFDM QPSK	1@131	25.37	23.37	0.2173
77	30	50	633334	3500.01	DFT-s-OFDM 16 QAM	64@32	24.81	22.81	0.1910
77	30	50	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.5	22.5	0.1778
77	30	50	633334	3500.01	DFT-s-OFDM 16 QAM	1@131	24.29	22.29	0.1694
77	30	50	633334	3500.01	DFT-s-OFDM 64 QAM	64@32	23.26	21.26	0.1337
77	30	50	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	22.92	20.92	0.1236
77	30	50	633334	3500.01	DFT-s-OFDM 64 QAM	1@131	22.81	20.81	0.1205
77	30	50	633334	3500.01	DFT-s-OFDM 256 QAM	64@32	21.29	19.29	0.0849
77	30	50	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	20.67	18.67	0.0736
77	30	50	633334	3500.01	DFT-s-OFDM 256 QAM	1@131	20.36	18.36	0.0685
77	30	50	633334	3500.01	CP-OFDM QPSK	67@33	24.27	22.27	0.1687
77	30	50	633334	3500.01	CP-OFDM QPSK	1@1	23.87	21.87	0.1538
77	30	50	633334	3500.01	CP-OFDM QPSK	1@131	23.77	21.77	0.1503
77	30	50	635000	3525	DFT-s-OFDM PI/2 BPSK	64@32	25.79	23.79	0.2393
77	30	50	635000	3525	DFT-s-OFDM PI/2 BPSK	1@1	25.52	23.52	0.2249
77	30	50	635000	3525	DFT-s-OFDM PI/2 BPSK	1@131	25.41	23.41	0.2193
77	30	50	635000	3525	DFT-s-OFDM QPSK	64@32	25.83	23.83	0.2415
77	30	50	635000	3525	DFT-s-OFDM QPSK	1@1	25.84	23.84	0.2421
77	30	50	635000	3525	DFT-s-OFDM QPSK	1@131	25.69	23.69	0.2339
77	30	50	635000	3525	DFT-s-OFDM 16 QAM	64@32	24.79	22.79	0.1901

77	30	50	635000	3525	DFT-s-OFDM 16 QAM	1@1	24.46	22.46	0.1762
77	30	50	635000	3525	DFT-s-OFDM 16 QAM	1@131	24.33	22.33	0.1710
77	30	50	635000	3525	DFT-s-OFDM 64 QAM	64@32	23.32	21.32	0.1355
77	30	50	635000	3525	DFT-s-OFDM 64 QAM	1@1	22.99	20.99	0.1256
77	30	50	635000	3525	DFT-s-OFDM 64 QAM	1@131	22.75	20.75	0.1189
77	30	50	635000	3525	DFT-s-OFDM 256 QAM	64@32	21.29	19.29	0.0849
77	30	50	635000	3525	DFT-s-OFDM 256 QAM	1@1	20.6	18.6	0.0724
77	30	50	635000	3525	DFT-s-OFDM 256 QAM	1@131	20.42	18.42	0.0695
77	30	50	635000	3525	CP-OFDM QPSK	67@33	24.31	22.31	0.1702
77	30	50	635000	3525	CP-OFDM QPSK	1@1	24.03	22.03	0.1596
77	30	50	635000	3525	CP-OFDM QPSK	1@131	23.89	21.89	0.1545
77	30	60	632000	3480	DFT-s-OFDM PI/2 BPSK	81@40	25.76	23.76	0.2377
77	30	60	632000	3480	DFT-s-OFDM PI/2 BPSK	1@1	25.38	23.38	0.2178
77	30	60	632000	3480	DFT-s-OFDM PI/2 BPSK	1@160	25.23	23.23	0.2104
77	30	60	632000	3480	DFT-s-OFDM QPSK	81@40	25.76	23.76	0.2377
77	30	60	632000	3480	DFT-s-OFDM QPSK	1@1	25.48	23.48	0.2228
77	30	60	632000	3480	DFT-s-OFDM QPSK	1@160	25.3	23.3	0.2138
77	30	60	632000	3480	DFT-s-OFDM 16 QAM	81@40	24.81	22.81	0.1910
77	30	60	632000	3480	DFT-s-OFDM 16 QAM	1@1	24.36	22.36	0.1722
77	30	60	632000	3480	DFT-s-OFDM 16 QAM	1@160	24.08	22.08	0.1614
77	30	60	632000	3480	DFT-s-OFDM 64 QAM	81@40	23.27	21.27	0.1340
77	30	60	632000	3480	DFT-s-OFDM 64 QAM	1@1	22.89	20.89	0.1227
77	30	60	632000	3480	DFT-s-OFDM 64 QAM	1@160	22.86	20.86	0.1219
77	30	60	632000	3480	DFT-s-OFDM 256 QAM	81@40	21.28	19.28	0.0847
77	30	60	632000	3480	DFT-s-OFDM 256 QAM	1@1	20.37	18.37	0.0687
77	30	60	632000	3480	DFT-s-OFDM 256 QAM	1@160	20.54	18.54	0.0714
77	30	60	632000	3480	CP-OFDM QPSK	81@40	24.25	22.25	0.1679
77	30	60	632000	3480	CP-OFDM QPSK	1@1	23.81	21.81	0.1517
77	30	60	632000	3480	CP-OFDM QPSK	1@160	23.64	21.64	0.1459
77	30	60	633334	3500.01	DFT-s-OFDM PI/2 BPSK	81@40	25.79	23.79	0.2393
77	30	60	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	25.31	23.31	0.2143
77	30	60	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@160	25.28	23.28	0.2128
77	30	60	633334	3500.01	DFT-s-OFDM QPSK	81@40	25.8	23.8	0.2399
77	30	60	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.42	23.42	0.2198

77	30	60	633334	3500.01	DFT-s-OFDM QPSK	1@160	25.31	23.31	0.2143
77	30	60	633334	3500.01	DFT-s-OFDM 16 QAM	81@40	24.83	22.83	0.1919
77	30	60	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.16	22.16	0.1644
77	30	60	633334	3500.01	DFT-s-OFDM 16 QAM	1@160	24.23	22.23	0.1671
77	30	60	633334	3500.01	DFT-s-OFDM 64 QAM	81@40	23.27	21.27	0.1340
77	30	60	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	22.93	20.93	0.1239
77	30	60	633334	3500.01	DFT-s-OFDM 64 QAM	1@160	22.83	20.83	0.1211
77	30	60	633334	3500.01	DFT-s-OFDM 256 QAM	81@40	21.27	19.27	0.0845
77	30	60	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	20.71	18.71	0.0743
77	30	60	633334	3500.01	DFT-s-OFDM 256 QAM	1@160	20.25	18.25	0.0668
77	30	60	633334	3500.01	CP-OFDM QPSK	81@40	24.26	22.26	0.1683
77	30	60	633334	3500.01	CP-OFDM QPSK	1@1	23.79	21.79	0.1510
77	30	60	633334	3500.01	CP-OFDM QPSK	1@160	23.72	21.72	0.1486
77	30	60	634666	3519.99	DFT-s-OFDM PI/2 BPSK	81@40	25.8	23.8	0.2399
77	30	60	634666	3519.99	DFT-s-OFDM PI/2 BPSK	1@1	25.48	23.48	0.2228
77	30	60	634666	3519.99	DFT-s-OFDM PI/2 BPSK	1@160	25.29	23.29	0.2133
77	30	60	634666	3519.99	DFT-s-OFDM QPSK	81@40	25.83	23.83	0.2415
77	30	60	634666	3519.99	DFT-s-OFDM QPSK	1@1	25.51	23.51	0.2244
77	30	60	634666	3519.99	DFT-s-OFDM QPSK	1@160	25.37	23.37	0.2173
77	30	60	634666	3519.99	DFT-s-OFDM 16 QAM	81@40	24.85	22.85	0.1928
77	30	60	634666	3519.99	DFT-s-OFDM 16 QAM	1@1	24.42	22.42	0.1746
77	30	60	634666	3519.99	DFT-s-OFDM 16 QAM	1@160	24.25	22.25	0.1679
77	30	60	634666	3519.99	DFT-s-OFDM 64 QAM	81@40	23.31	21.31	0.1352
77	30	60	634666	3519.99	DFT-s-OFDM 64 QAM	1@1	22.89	20.89	0.1227
77	30	60	634666	3519.99	DFT-s-OFDM 64 QAM	1@160	22.84	20.84	0.1213
77	30	60	634666	3519.99	DFT-s-OFDM 256 QAM	81@40	21.29	19.29	0.0849
77	30	60	634666	3519.99	DFT-s-OFDM 256 QAM	1@1	20.68	18.68	0.0738
77	30	60	634666	3519.99	DFT-s-OFDM 256 QAM	1@160	20.48	18.48	0.0705
77	30	60	634666	3519.99	CP-OFDM QPSK	81@40	24.3	22.3	0.1698
77	30	60	634666	3519.99	CP-OFDM QPSK	1@1	23.86	21.86	0.1535
77	30	60	634666	3519.99	CP-OFDM QPSK	1@160	23.76	21.76	0.1500
77	30	70	632334	3485.01	DFT-s-OFDM PI/2 BPSK	90@45	25.84	23.84	0.2421
77	30	70	632334	3485.01	DFT-s-OFDM PI/2 BPSK	1@1	25.37	23.37	0.2173
77	30	70	632334	3485.01	DFT-s-OFDM PI/2 BPSK	1@187	25.25	23.25	0.2113

77	30	70	632334	3485.01	DFT-s-OFDM QPSK	90@45	25.88	23.88	0.2443
77	30	70	632334	3485.01	DFT-s-OFDM QPSK	1@1	25.62	23.62	0.2301
77	30	70	632334	3485.01	DFT-s-OFDM QPSK	1@187	25.45	23.45	0.2213
77	30	70	632334	3485.01	DFT-s-OFDM 16 QAM	90@45	24.87	22.87	0.1936
77	30	70	632334	3485.01	DFT-s-OFDM 16 QAM	1@1	24.26	22.26	0.1683
77	30	70	632334	3485.01	DFT-s-OFDM 16 QAM	1@187	24.22	22.22	0.1667
77	30	70	632334	3485.01	DFT-s-OFDM 64 QAM	90@45	23.32	21.32	0.1355
77	30	70	632334	3485.01	DFT-s-OFDM 64 QAM	1@1	22.8	20.8	0.1202
77	30	70	632334	3485.01	DFT-s-OFDM 64 QAM	1@187	22.68	20.68	0.1169
77	30	70	632334	3485.01	DFT-s-OFDM 256 QAM	90@45	21.27	19.27	0.0845
77	30	70	632334	3485.01	DFT-s-OFDM 256 QAM	1@1	20.99	18.99	0.0793
77	30	70	632334	3485.01	DFT-s-OFDM 256 QAM	1@187	20.84	18.84	0.0766
77	30	70	632334	3485.01	CP-OFDM QPSK	95@47	24.3	22.3	0.1698
77	30	70	632334	3485.01	CP-OFDM QPSK	1@1	23.75	21.75	0.1496
77	30	70	632334	3485.01	CP-OFDM QPSK	1@187	23.77	21.77	0.1503
77	30	70	633334	3500.01	DFT-s-OFDM PI/2 BPSK	90@45	25.88	23.88	0.2443
77	30	70	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	25.31	23.31	0.2143
77	30	70	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@187	25.24	23.24	0.2109
77	30	70	633334	3500.01	DFT-s-OFDM QPSK	90@45	25.89	23.89	0.2449
77	30	70	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.5	23.5	0.2239
77	30	70	633334	3500.01	DFT-s-OFDM QPSK	1@187	25.32	23.32	0.2148
77	30	70	633334	3500.01	DFT-s-OFDM 16 QAM	90@45	24.89	22.89	0.1945
77	30	70	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.14	22.14	0.1637
77	30	70	633334	3500.01	DFT-s-OFDM 16 QAM	1@187	24.14	22.14	0.1637
77	30	70	633334	3500.01	DFT-s-OFDM 64 QAM	90@45	23.33	21.33	0.1358
77	30	70	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	22.75	20.75	0.1189
77	30	70	633334	3500.01	DFT-s-OFDM 64 QAM	1@187	22.68	20.68	0.1169
77	30	70	633334	3500.01	DFT-s-OFDM 256 QAM	90@45	21.28	19.28	0.0847
77	30	70	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	20.58	18.58	0.0721
77	30	70	633334	3500.01	DFT-s-OFDM 256 QAM	1@187	20.54	18.54	0.0714
77	30	70	633334	3500.01	CP-OFDM QPSK	95@47	24.31	22.31	0.1702
77	30	70	633334	3500.01	CP-OFDM QPSK	1@1	23.81	21.81	0.1517
77	30	70	633334	3500.01	CP-OFDM QPSK	1@187	23.69	21.69	0.1476
77	30	70	634332	3514.98	DFT-s-OFDM PI/2 BPSK	90@45	25.9	23.9	0.2455

77	30	70	634332	3514.98	DFT-s-OFDM PI/2 BPSK	1@1	25.43	23.43	0.2203
77	30	70	634332	3514.98	DFT-s-OFDM PI/2 BPSK	1@187	25.2	23.2	0.2089
77	30	70	634332	3514.98	DFT-s-OFDM QPSK	90@45	25.92	23.92	0.2466
77	30	70	634332	3514.98	DFT-s-OFDM QPSK	1@1	25.52	23.52	0.2249
77	30	70	634332	3514.98	DFT-s-OFDM QPSK	1@187	25.34	23.34	0.2158
77	30	70	634332	3514.98	DFT-s-OFDM 16 QAM	90@45	24.91	22.91	0.1954
77	30	70	634332	3514.98	DFT-s-OFDM 16 QAM	1@1	24.23	22.23	0.1671
77	30	70	634332	3514.98	DFT-s-OFDM 16 QAM	1@187	24.17	22.17	0.1648
77	30	70	634332	3514.98	DFT-s-OFDM 64 QAM	90@45	23.36	21.36	0.1368
77	30	70	634332	3514.98	DFT-s-OFDM 64 QAM	1@1	22.85	20.85	0.1216
77	30	70	634332	3514.98	DFT-s-OFDM 64 QAM	1@187	22.7	20.7	0.1175
77	30	70	634332	3514.98	DFT-s-OFDM 256 QAM	90@45	21.32	19.32	0.0855
77	30	70	634332	3514.98	DFT-s-OFDM 256 QAM	1@1	20.51	18.51	0.0710
77	30	70	634332	3514.98	DFT-s-OFDM 256 QAM	1@187	20.24	18.24	0.0667
77	30	70	634332	3514.98	CP-OFDM QPSK	95@47	24.35	22.35	0.1718
77	30	70	634332	3514.98	CP-OFDM QPSK	1@1	23.87	21.87	0.1538
77	30	70	634332	3514.98	CP-OFDM QPSK	1@187	23.76	21.76	0.1500
77	30	80	632668	3490.02	DFT-s-OFDM PI/2 BPSK	108@54	25.88	23.88	0.2443
77	30	80	632668	3490.02	DFT-s-OFDM PI/2 BPSK	1@1	25.22	23.22	0.2099
77	30	80	632668	3490.02	DFT-s-OFDM PI/2 BPSK	1@215	25.12	23.12	0.2051
77	30	80	632668	3490.02	DFT-s-OFDM QPSK	108@54	25.92	23.92	0.2466
77	30	80	632668	3490.02	DFT-s-OFDM QPSK	1@1	25.3	23.3	0.2138
77	30	80	632668	3490.02	DFT-s-OFDM QPSK	1@215	25.29	23.29	0.2133
77	30	80	632668	3490.02	DFT-s-OFDM 16 QAM	108@54	24.88	22.88	0.1941
77	30	80	632668	3490.02	DFT-s-OFDM 16 QAM	1@1	24.15	22.15	0.1641
77	30	80	632668	3490.02	DFT-s-OFDM 16 QAM	1@215	23.99	21.99	0.1581
77	30	80	632668	3490.02	DFT-s-OFDM 64 QAM	108@54	23.33	21.33	0.1358
77	30	80	632668	3490.02	DFT-s-OFDM 64 QAM	1@1	22.81	20.81	0.1205
77	30	80	632668	3490.02	DFT-s-OFDM 64 QAM	1@215	22.63	20.63	0.1156
77	30	80	632668	3490.02	DFT-s-OFDM 256 QAM	108@54	21.33	19.33	0.0857
77	30	80	632668	3490.02	DFT-s-OFDM 256 QAM	1@1	20.59	18.59	0.0723
77	30	80	632668	3490.02	DFT-s-OFDM 256 QAM	1@215	20.25	18.25	0.0668
77	30	80	632668	3490.02	CP-OFDM QPSK	109@54	24.3	22.3	0.1698
77	30	80	632668	3490.02	CP-OFDM QPSK	1@1	23.62	21.62	0.1452

77	30	80	632668	3490.02	CP-OFDM QPSK	1@215	23.55	21.55	0.1429
77	30	80	633334	3500.01	DFT-s-OFDM PI/2 BPSK	108@54	25.88	23.88	0.2443
77	30	80	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	25.18	23.18	0.2080
77	30	80	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@215	25.08	23.08	0.2032
77	30	80	633334	3500.01	DFT-s-OFDM QPSK	108@54	25.89	23.89	0.2449
77	30	80	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.31	23.31	0.2143
77	30	80	633334	3500.01	DFT-s-OFDM QPSK	1@215	25.25	23.25	0.2113
77	30	80	633334	3500.01	DFT-s-OFDM 16 QAM	108@54	24.86	22.86	0.1932
77	30	80	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.05	22.05	0.1603
77	30	80	633334	3500.01	DFT-s-OFDM 16 QAM	1@215	24.01	22.01	0.1589
77	30	80	633334	3500.01	DFT-s-OFDM 64 QAM	108@54	23.31	21.31	0.1352
77	30	80	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	22.58	20.58	0.1143
77	30	80	633334	3500.01	DFT-s-OFDM 64 QAM	1@215	22.52	20.52	0.1127
77	30	80	633334	3500.01	DFT-s-OFDM 256 QAM	108@54	21.28	19.28	0.0847
77	30	80	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	20.17	18.17	0.0656
77	30	80	633334	3500.01	DFT-s-OFDM 256 QAM	1@215	20.45	18.45	0.0700
77	30	80	633334	3500.01	CP-OFDM QPSK	109@54	24.3	22.3	0.1698
77	30	80	633334	3500.01	CP-OFDM QPSK	1@1	23.63	21.63	0.1455
77	30	80	633334	3500.01	CP-OFDM QPSK	1@215	23.51	21.51	0.1416
77	30	80	634000	3510	DFT-s-OFDM PI/2 BPSK	108@54	25.88	23.88	0.2443
77	30	80	634000	3510	DFT-s-OFDM PI/2 BPSK	1@1	25.24	23.24	0.2109
77	30	80	634000	3510	DFT-s-OFDM PI/2 BPSK	1@215	25.06	23.06	0.2023
77	30	80	634000	3510	DFT-s-OFDM QPSK	108@54	25.87	23.87	0.2438
77	30	80	634000	3510	DFT-s-OFDM QPSK	1@1	25.65	23.65	0.2317
77	30	80	634000	3510	DFT-s-OFDM QPSK	1@215	25.52	23.52	0.2249
77	30	80	634000	3510	DFT-s-OFDM 16 QAM	108@54	24.86	22.86	0.1932
77	30	80	634000	3510	DFT-s-OFDM 16 QAM	1@1	24.11	22.11	0.1626
77	30	80	634000	3510	DFT-s-OFDM 16 QAM	1@215	23.99	21.99	0.1581
77	30	80	634000	3510	DFT-s-OFDM 64 QAM	108@54	23.3	21.3	0.1349
77	30	80	634000	3510	DFT-s-OFDM 64 QAM	1@1	22.95	20.95	0.1245
77	30	80	634000	3510	DFT-s-OFDM 64 QAM	1@215	22.63	20.63	0.1156
77	30	80	634000	3510	DFT-s-OFDM 256 QAM	108@54	21.32	19.32	0.0855
77	30	80	634000	3510	DFT-s-OFDM 256 QAM	1@1	20.29	18.29	0.0675
77	30	80	634000	3510	DFT-s-OFDM 256 QAM	1@215	20.16	18.16	0.0655

77	30	80	634000	3510	CP-OFDM QPSK	109@54	24.29	22.29	0.1694
77	30	80	634000	3510	CP-OFDM QPSK	1@1	23.62	21.62	0.1452
77	30	80	634000	3510	CP-OFDM QPSK	1@215	23.48	21.48	0.1406
77	30	90	633000	3495	DFT-s-OFDM PI/2 BPSK	120@60	25.83	23.83	0.2415
77	30	90	633000	3495	DFT-s-OFDM PI/2 BPSK	1@1	25.06	23.06	0.2023
77	30	90	633000	3495	DFT-s-OFDM PI/2 BPSK	1@243	24.9	22.9	0.1950
77	30	90	633000	3495	DFT-s-OFDM QPSK	120@60	25.83	23.83	0.2415
77	30	90	633000	3495	DFT-s-OFDM QPSK	1@1	25.2	23.2	0.2089
77	30	90	633000	3495	DFT-s-OFDM QPSK	1@243	24.91	22.91	0.1954
77	30	90	633000	3495	DFT-s-OFDM 16 QAM	120@60	24.82	22.82	0.1914
77	30	90	633000	3495	DFT-s-OFDM 16 QAM	1@1	24.03	22.03	0.1596
77	30	90	633000	3495	DFT-s-OFDM 16 QAM	1@243	23.82	21.82	0.1521
77	30	90	633000	3495	DFT-s-OFDM 64 QAM	120@60	23.32	21.32	0.1355
77	30	90	633000	3495	DFT-s-OFDM 64 QAM	1@1	22.7	20.7	0.1175
77	30	90	633000	3495	DFT-s-OFDM 64 QAM	1@243	22.33	20.33	0.1079
77	30	90	633000	3495	DFT-s-OFDM 256 QAM	120@60	21.29	19.29	0.0849
77	30	90	633000	3495	DFT-s-OFDM 256 QAM	1@1	20.06	18.06	0.0640
77	30	90	633000	3495	DFT-s-OFDM 256 QAM	1@243	20.2	18.2	0.0661
77	30	90	633000	3495	CP-OFDM QPSK	123@61	24.27	22.27	0.1687
77	30	90	633000	3495	CP-OFDM QPSK	1@1	23.54	21.54	0.1426
77	30	90	633000	3495	CP-OFDM QPSK	1@243	23.38	21.38	0.1374
77	30	90	633334	3500.01	DFT-s-OFDM PI/2 BPSK	120@60	25.84	23.84	0.2421
77	30	90	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	25	23	0.1995
77	30	90	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@243	24.89	22.89	0.1945
77	30	90	633334	3500.01	DFT-s-OFDM QPSK	120@60	25.86	23.86	0.2432
77	30	90	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.09	23.09	0.2037
77	30	90	633334	3500.01	DFT-s-OFDM QPSK	1@243	24.92	22.92	0.1959
77	30	90	633334	3500.01	DFT-s-OFDM 16 QAM	120@60	24.87	22.87	0.1936
77	30	90	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	23.86	21.86	0.1535
77	30	90	633334	3500.01	DFT-s-OFDM 16 QAM	1@243	23.84	21.84	0.1528
77	30	90	633334	3500.01	DFT-s-OFDM 64 QAM	120@60	23.33	21.33	0.1358
77	30	90	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	22.43	20.43	0.1104
77	30	90	633334	3500.01	DFT-s-OFDM 64 QAM	1@243	22.52	20.52	0.1127
77	30	90	633334	3500.01	DFT-s-OFDM 256 QAM	120@60	21.28	19.28	0.0847

77	30	90	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	20.34	18.34	0.0682
77	30	90	633334	3500.01	DFT-s-OFDM 256 QAM	1@243	19.89	17.89	0.0615
77	30	90	633334	3500.01	CP-OFDM QPSK	123@61	24.29	22.29	0.1694
77	30	90	633334	3500.01	CP-OFDM QPSK	1@1	23.53	21.53	0.1422
77	30	90	633334	3500.01	CP-OFDM QPSK	1@243	23.38	21.38	0.1374
77	30	90	633666	3504.99	DFT-s-OFDM PI/2 BPSK	120@60	25.84	23.84	0.2421
77	30	90	633666	3504.99	DFT-s-OFDM PI/2 BPSK	1@1	25.09	23.09	0.2037
77	30	90	633666	3504.99	DFT-s-OFDM PI/2 BPSK	1@243	24.88	22.88	0.1941
77	30	90	633666	3504.99	DFT-s-OFDM QPSK	120@60	25.83	23.83	0.2415
77	30	90	633666	3504.99	DFT-s-OFDM QPSK	1@1	25.2	23.2	0.2089
77	30	90	633666	3504.99	DFT-s-OFDM QPSK	1@243	24.93	22.93	0.1963
77	30	90	633666	3504.99	DFT-s-OFDM 16 QAM	120@60	24.84	22.84	0.1923
77	30	90	633666	3504.99	DFT-s-OFDM 16 QAM	1@1	24.01	22.01	0.1589
77	30	90	633666	3504.99	DFT-s-OFDM 16 QAM	1@243	23.86	21.86	0.1535
77	30	90	633666	3504.99	DFT-s-OFDM 64 QAM	120@60	23.32	21.32	0.1355
77	30	90	633666	3504.99	DFT-s-OFDM 64 QAM	1@1	22.56	20.56	0.1138
77	30	90	633666	3504.99	DFT-s-OFDM 64 QAM	1@243	22.38	20.38	0.1091
77	30	90	633666	3504.99	DFT-s-OFDM 256 QAM	120@60	21.3	19.3	0.0851
77	30	90	633666	3504.99	DFT-s-OFDM 256 QAM	1@1	20.13	18.13	0.0650
77	30	90	633666	3504.99	DFT-s-OFDM 256 QAM	1@243	19.98	17.98	0.0628
77	30	90	633666	3504.99	CP-OFDM QPSK	123@61	24.28	22.28	0.1690
77	30	90	633666	3504.99	CP-OFDM QPSK	1@1	23.53	21.53	0.1422
77	30	90	633666	3504.99	CP-OFDM QPSK	1@243	23.36	21.36	0.1368
77	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	135@67	25.83	23.83	0.2415
77	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	24.9	22.9	0.1950
77	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@271	24.71	22.71	0.1866
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	135@67	25.8	23.8	0.2399
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@1	24.98	22.98	0.1986
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@271	24.76	22.76	0.1888
77	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	135@67	24.86	22.86	0.1932
77	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	23.82	21.82	0.1521
77	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	1@271	23.63	21.63	0.1455
77	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	135@67	23.32	21.32	0.1355
77	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	22.39	20.39	0.1094

77	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	1@271	22.18	20.18	0.1042
77	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	135@67	21.28	19.28	0.0847
77	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	20.08	18.08	0.0643
77	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	1@271	19.9	17.9	0.0617
77	30	100	633334	3500.01	CP-OFDM QPSK	137@68	24.28	22.28	0.1690
77	30	100	633334	3500.01	CP-OFDM QPSK	1@1	23.4	21.4	0.1380
77	30	100	633334	3500.01	CP-OFDM QPSK	1@271	23.22	21.22	0.1324

Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.00411	PASS	NV
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.00498	PASS	LV
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.00672	PASS	HV
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.00305	PASS	-30°C
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.00223	PASS	-20°C
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.00062	PASS	-10°C
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.00276	PASS	0°C
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.00545	PASS	10°C
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.00695	PASS	20°C
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.00211	PASS	30°C
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.00273	PASS	40°C
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.00003	PASS	50°C

Peak to Average Radio

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
77	30	20	630668	3460.02	DFT-s-OFDM PI/2 BPSK	50@0	7.08	13	PASS
77	30	20	630668	3460.02	DFT-s-OFDM PI/2 BPSK	1@0	7.89	13	PASS
77	30	20	630668	3460.02	DFT-s-OFDM QPSK	50@0	8.05	13	PASS
77	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@0	8.84	13	PASS
77	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	50@0	7.07	13	PASS
77	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@0	7.25	13	PASS
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	8.07	13	PASS
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@0	8.85	13	PASS
77	30	20	636000	3540.0	DFT-s-OFDM PI/2 BPSK	50@0	7.13	13	PASS
77	30	20	636000	3540.0	DFT-s-OFDM PI/2 BPSK	1@0	7.52	13	PASS
77	30	20	636000	3540.0	DFT-s-OFDM QPSK	50@0	8.09	13	PASS
77	30	20	636000	3540.0	DFT-s-OFDM QPSK	1@0	9.03	13	PASS

The screenshot displays the Keysight PowerStat CCDF software interface. The top status bar shows 'Spectrum Analyzer 1' and 'Power Stat CCDF'. The main window is divided into several sections:

- Top Bar:** Displays 'Keysight', 'RF Input', 'Center Freq: 3.460000000 GHz', 'R.L. →', 'Coupling: DC', 'Trig: RF Burst', 'Trig Delay: 500.00 μs', 'Counts: 1.00 M1.00 Mpt', 'Align: Auto', 'Freq Ref: Int (s)', 'Att: 40 dB', 'Ref: Gain: Low', and 'Radio Std: None'.
- Left Panel:** Contains a '1 Metrics' section with a table of power levels and a '2 Graph' section showing a spectral plot.
- Table:** A table with two columns: 'Average Power' and 'Peak'. The 'Average Power' column lists values from 21.33 dBm down to 8.56 dB. The 'Peak' column lists values from 4.07 dB down to 29.97 dBm.
- Graph:** A spectral plot showing power density (dBm/Hz) versus frequency (MHz). The x-axis ranges from 0.00 to 20.00 MHz. The y-axis ranges from 0.0001 to 100 dBm/Hz. A blue curve represents the power spectrum, and a yellow curve represents the noise floor.

Average Power	Peak
21.33 dBm	4.07 dB
44.92 % at 0 dB	6.01 dB
10.0 %	7.08 dB
1.0 %	7.89 dB
0.1 %	8.48 dB
0.01 %	8.56 dB
0.001 %	8.64 dB
0.0001 %	29.97 dBm

Spectrum Analyzer 1
Power Stat CDD

KEYSIGHT Input: RF
RL → Coaxing DC
Align: Auto

Input 2: 50.0
Cen C:Cent
Freq Ref: 1st (S)

Att: 40 dB
Ting: RF Burst
Ting Delay: 500.0 ps
RF Gain: Low
Center Freq: 3.46000000 GHz
1.00 MHz
Radio Std: None

1 Metrics

Average Power

17.33 dBm
37.13 % at 0 dB

100.0 % 4.84 dB
1.0 % 6.75 dB
0.1 % 7.89 dB
0.01 % 8.28 dB
0.001 % 8.35 dB
0.0001 % 8.37 dB

Peak

9.78 dB
27.11 dBm

2. Graph

Gaussian

100 %
10 %
1 %
0.1 %
0.01 %
0.001 %
0.0001 %
0.00 dB
0.00 dB
20.00 dB

Info BW 25.000 MHz

Feb 28, 2022
12:16:52 PM

The screenshot displays the Keysight PowerStat CCDF software interface. The top menu bar includes 'Spectrum Analyzer 1', 'Power Stat CCDF', and a '+' icon. The main window is divided into several sections:

- KEYSIGHT** logo and input settings:
 - Input RF: **Input Z: 50 Ω**
 - Coor CC: **Corr CC**
 - RF Ref: **Ref Int (S)**
- Align: Auto**
- Att: 40 dB**
- Trig RF Burst**
- Center Freq: 3.460020000 GHz**
- Trig Delay: 500.0 ps**
- Counts: 1.00 M**
- 1.00 Mpt**
- RF Dam: Low**
- Ratio Std: None**

The left sidebar shows the **1 Metrics** tab with a table of power levels:

Average Power	
	20.84 dBm
	41.44 % at 0 dB
10.0 %	4.35 dB
1.0 %	6.77 dB
0.1 %	8.05 dB
0.01 %	8.92 dB
0.001 %	9.21 dB
0.0001 %	9.30 dB
Peak	
	9.35 dB
	30.19 dBm

The main plot area shows a **2 Graph** tab with a **Gaussian** fit. The plot displays a CCDF curve (blue line) on a logarithmic scale. The y-axis is labeled '100 %' at the top and '0.0001 %' at the bottom. The x-axis is labeled 'info BW 25.000 MHz' and '20.00'. The plot shows a steep decline in power as the probability decreases, with a Gaussian fit curve overlaid.

Spectrum Analyzer 1
Power Stat CDF

KEYSIGHT Input RF: 50.0 GHz
RL: Coaxial DC
Align: Auto

Input 2: 50.0 GHz
Cen C: 50.0 GHz
Freq Ref: 1.00 (S)

Att: 40 dB

Trig: RF Burst
Trig Delay: 500.0 ps
RF: Gain: Low

Center Freq: 3.460020000 GHz
ps/Counts: 1.00 M/1.00 Mpt
Radio Std: None

1 Metrics

Average Power

17.44 dBm
34.01 % at 0 dB

100.0 % 5.06 dB
1.0 % 7.51 dB
0.1 % 8.84 dB
0.01 % 9.79 dB
0.001 % 9.85 dB
0.0001 % 9.88 dB

Peak

13.54 dB
30.96 dBm

2 Graph

Gaussian

100 %
10 %
1 %
0.1 %
0.01 %
0.001 %
0.0001 %

0.0001 %
0.001 %
0.01 %
0.1 %
1 %
10 %
100 %

Info BW 25.000 MHz

Feb 28, 2022
12:17:44 PM

The screenshot displays the Keysight Spectrum Analyzer 1 interface. The top status bar shows 'Spectrum Analyzer 1' and 'Power Stat: CCDF'. The main display area is divided into two sections: a left sidebar with measurement data and a right plot area.

Left Sidebar Data:

- Input RF:** 2.50 GHz
- Corr CC:** 0 dB
- Freq Ref:** 10.0 MHz
- Att:** 40.0 dB
- Trig:** RF Burst
- Trig Delay:** 500.0 ps
- Center Freq:** 3,500,000,000 Hz
- RF Gain:** Low
- Radio Std:** None

Measurement Data Table:

Measurement	Value
Average Power	21.32 dBm
	44.94 % at 0 dB
10.0 %	4.06 dB
1.0 %	5.99 dB
0.1 %	7.07 dB
0.01 %	7.89 dB
0.001 %	8.44 dB
0.0001 %	8.51 dB
Peak	8.57 dB
	29.89 dBm

Plot Area:

- Graph Type:** Gaussian
- Y-axis:** Power (dBm) on a logarithmic scale from 100.0 to 10.0001.
- X-axis:** Frequency (MHz) from 0.00 to 20.00.
- Trace:** A blue curve representing the power spectrum, showing a peak at approximately 3.5 GHz.
- Info:** BW 25.000 MHz

The bottom of the screen shows a Windows taskbar with the date and time: Feb 28, 2022, 12:18:21 PM.

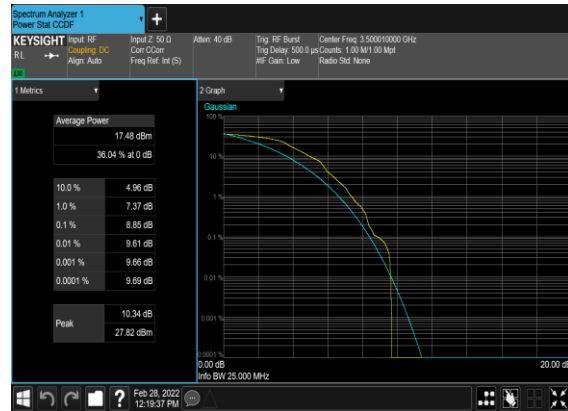
The screenshot displays the Keysight Spectrum Analyzer 1 interface. The top status bar indicates 'Spectrum Analyzer 1' and 'Power Stat CDF'. The main display area shows a 'Gaussian' noise floor plot. The x-axis represents frequency in MHz, ranging from 0.00 to 20.00. The y-axis represents power in dBm, ranging from -100.00 to 100.00. A yellow curve represents the noise floor, which is relatively flat at approximately -100 dBm until about 10 MHz, where it begins to rise sharply. A red vertical line is positioned at 10.00 MHz. The plot is titled 'Gaussian' in the top left corner. The bottom status bar shows the date and time as 'Feb 28, 2022 12:46:46 PM'.

Level	Power (dBm)
Average Power	17.88 dBm
42.11 % at 0 dB	
100.0 %	4.34 dB
1.0 %	6.26 dB
0.1 %	7.25 dB
0.01 %	7.62 dB
0.001 %	7.71 dB
0.0001 %	7.14 dB
Peak	10.55 dB
	28.43 dBm

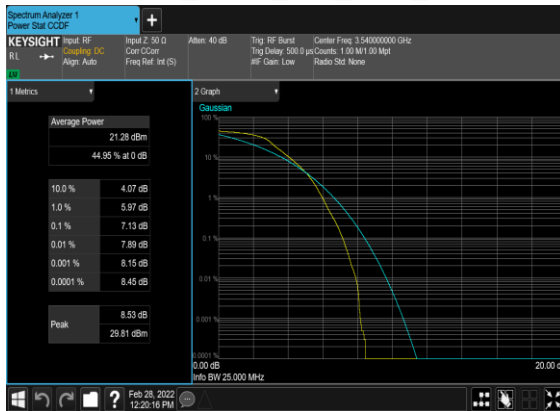
N77(20M)_DFT-s-
OFDM_QPSK_Outer_Full_Mid_CH



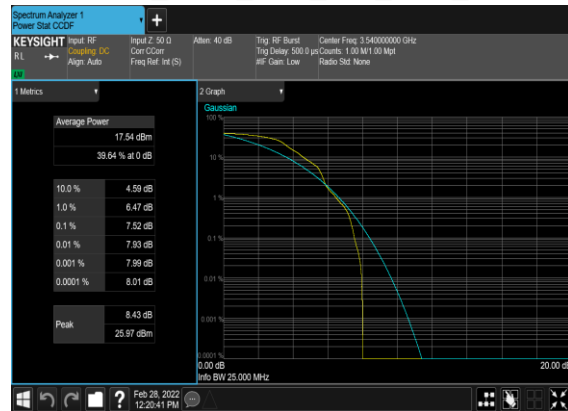
N77(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



N77(20M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_High_CH



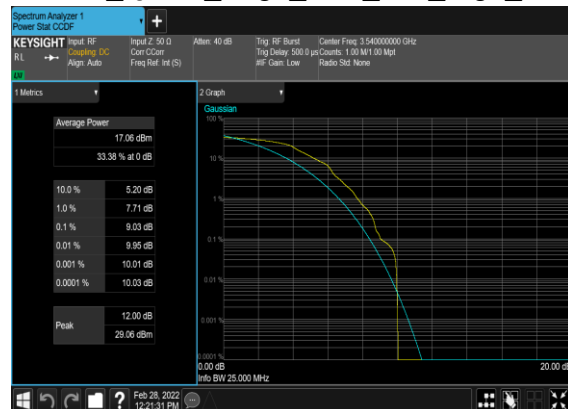
N77(20M)_DFT-s-OFDM_PI_2-
BPSK_Edge_1RB_Left_High_CH



N77(20M)_DFT-s-
OFDM_QPSK_Outer_Full_High_CH



N77(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH



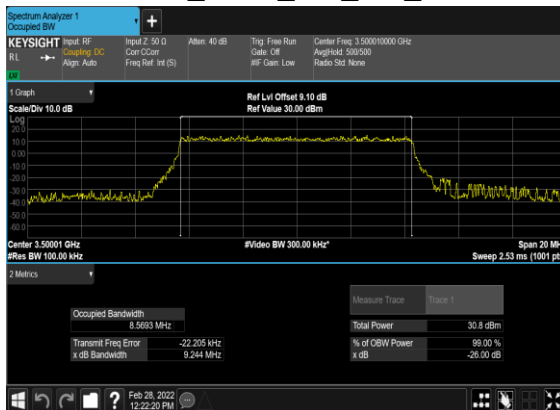
Occupied Bandwidth

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB OBW (MHz)
77	30	10	633334	3500.01	DFT-s-OFDM PI/2 BPSK	24@0	8.5693	9.244
77	30	10	633334	3500.01	DFT-s-OFDM QPSK	24@0	8.5838	9.261
77	30	10	633334	3500.01	CP-OFDM QPSK	24@0	8.5587	9.337
77	30	10	633334	3500.01	CP-OFDM 16 QAM	24@0	8.5783	9.344
77	30	10	633334	3500.01	CP-OFDM 64 QAM	24@0	8.5746	9.865
77	30	10	633334	3500.01	CP-OFDM 256 QAM	24@0	8.5725	9.41
77	30	15	633334	3500.01	DFT-s-OFDM PI/2 BPSK	36@0	12.844	13.99
77	30	15	633334	3500.01	DFT-s-OFDM QPSK	36@0	12.791	13.89
77	30	15	633334	3500.01	CP-OFDM QPSK	38@0	13.557	14.4
77	30	15	633334	3500.01	CP-OFDM 16 QAM	38@0	13.554	14.61
77	30	15	633334	3500.01	CP-OFDM 64 QAM	38@0	13.577	14.37
77	30	15	633334	3500.01	CP-OFDM 256 QAM	38@0	13.562	14.46
77	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	50@0	17.819	18.75
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	17.839	19.0
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	18.156	19.38
77	30	20	633334	3500.01	CP-OFDM 16 QAM	51@0	18.214	19.2
77	30	20	633334	3500.01	CP-OFDM 64 QAM	51@0	18.17	19.94
77	30	20	633334	3500.01	CP-OFDM 256 QAM	51@0	18.196	19.2
77	30	25	633334	3500.01	DFT-s-OFDM PI/2 BPSK	64@0	22.84	24.08
77	30	25	633334	3500.01	DFT-s-OFDM QPSK	64@0	22.766	24.08
77	30	25	633334	3500.01	CP-OFDM QPSK	65@0	23.193	24.64
77	30	25	633334	3500.01	CP-OFDM 16 QAM	65@0	23.201	24.13

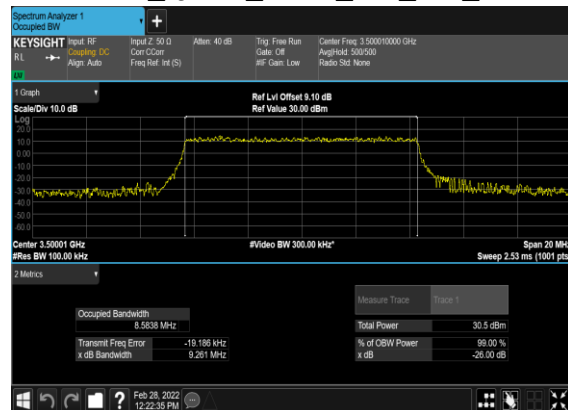
77	30	25	633334	3500.01	CP-OFDM 64 QAM	65@0	23.212	26.64
77	30	25	633334	3500.01	CP-OFDM 256 QAM	65@0	23.211	24.52
77	30	30	633334	3500.01	DFT-s- OFDM PI/2 BPSK	75@0	26.716	28.25
77	30	30	633334	3500.01	DFT-s- OFDM QPSK	75@0	26.713	28.44
77	30	30	633334	3500.01	CP-OFDM QPSK	78@0	27.834	29.48
77	30	30	633334	3500.01	CP-OFDM 16 QAM	78@0	27.8	29.02
77	30	30	633334	3500.01	CP-OFDM 64 QAM	78@0	27.804	29.35
77	30	30	633334	3500.01	CP-OFDM 256 QAM	78@0	27.908	29.22
77	30	40	633334	3500.01	DFT-s- OFDM PI/2 BPSK	100@0	35.734	37.46
77	30	40	633334	3500.01	DFT-s- OFDM QPSK	100@0	35.741	37.48
77	30	40	633334	3500.01	CP-OFDM QPSK	106@0	37.833	39.41
77	30	40	633334	3500.01	CP-OFDM 16 QAM	106@0	37.83	39.25
77	30	40	633334	3500.01	CP-OFDM 64 QAM	106@0	37.795	39.43
77	30	40	633334	3500.01	CP-OFDM 256 QAM	106@0	37.813	39.39
77	30	50	633334	3500.01	DFT-s- OFDM PI/2 BPSK	128@0	45.74	47.59
77	30	50	633334	3500.01	DFT-s- OFDM QPSK	128@0	45.622	47.94
77	30	50	633334	3500.01	CP-OFDM QPSK	133@0	47.422	49.59
77	30	50	633334	3500.01	CP-OFDM 16 QAM	133@0	47.486	49.86
77	30	50	633334	3500.01	CP-OFDM 64 QAM	133@0	47.406	49.41
77	30	50	633334	3500.01	CP-OFDM 256 QAM	133@0	47.398	49.54
77	30	60	633334	3500.01	DFT-s- OFDM PI/2 BPSK	162@0	57.837	59.84
77	30	60	633334	3500.01	DFT-s- OFDM QPSK	162@0	57.861	59.89
77	30	60	633334	3500.01	CP-OFDM QPSK	162@0	57.78	59.89
77	30	60	633334	3500.01	CP-OFDM 16 QAM	162@0	57.819	59.93
77	30	60	633334	3500.01	CP-OFDM 64 QAM	162@0	57.788	59.91
77	30	60	633334	3500.01	CP-OFDM 256 QAM	162@0	57.775	59.95

77	30	70	633334	3500.01	DFT-s-OFDM PI/2 BPSK	180@0	64.312	67.12
77	30	70	633334	3500.01	DFT-s-OFDM QPSK	180@0	64.333	66.89
77	30	70	633334	3500.01	CP-OFDM QPSK	189@0	67.393	69.96
77	30	70	633334	3500.01	CP-OFDM 16 QAM	189@0	67.528	69.76
77	30	70	633334	3500.01	CP-OFDM 64 QAM	189@0	67.459	70.0
77	30	70	633334	3500.01	CP-OFDM 256 QAM	189@0	67.499	69.82
77	30	80	633334	3500.01	DFT-s-OFDM PI/2 BPSK	216@0	77.271	79.65
77	30	80	633334	3500.01	DFT-s-OFDM QPSK	216@0	77.127	79.8
77	30	80	633334	3500.01	CP-OFDM QPSK	217@0	77.408	80.09
77	30	80	633334	3500.01	CP-OFDM 16 QAM	217@0	77.533	80.0
77	30	80	633334	3500.01	CP-OFDM 64 QAM	217@0	77.476	80.04
77	30	80	633334	3500.01	CP-OFDM 256 QAM	217@0	77.367	80.15
77	30	90	633334	3500.01	DFT-s-OFDM PI/2 BPSK	240@0	85.732	88.59
77	30	90	633334	3500.01	DFT-s-OFDM QPSK	240@0	85.74	88.58
77	30	90	633334	3500.01	CP-OFDM QPSK	245@0	87.272	90.22
77	30	90	633334	3500.01	CP-OFDM 16 QAM	245@0	87.44	90.35
77	30	90	633334	3500.01	CP-OFDM 64 QAM	245@0	87.329	90.41
77	30	90	633334	3500.01	CP-OFDM 256 QAM	245@0	87.32	90.24
77	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	270@0	96.092	99.44
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	270@0	96.305	99.64
77	30	100	633334	3500.01	CP-OFDM QPSK	273@0	97.269	100.6
77	30	100	633334	3500.01	CP-OFDM 16 QAM	273@0	97.265	100.5
77	30	100	633334	3500.01	CP-OFDM 64 QAM	273@0	97.098	100.6
77	30	100	633334	3500.01	CP-OFDM 256 QAM	273@0	97.421	100.5

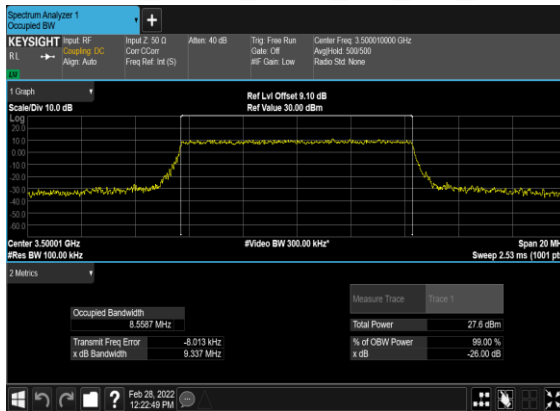
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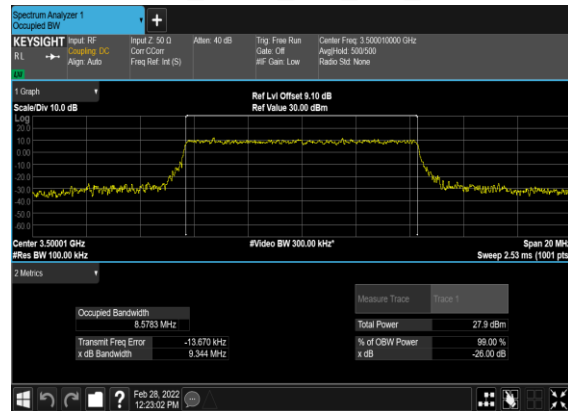
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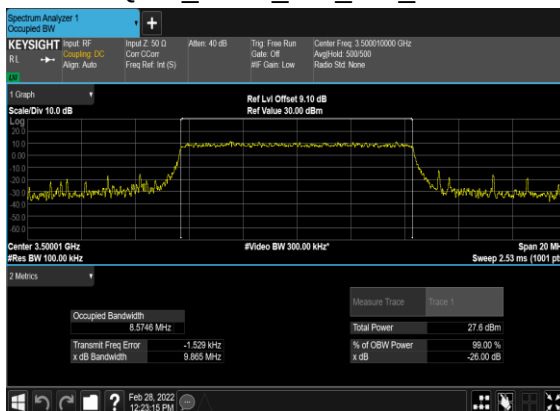
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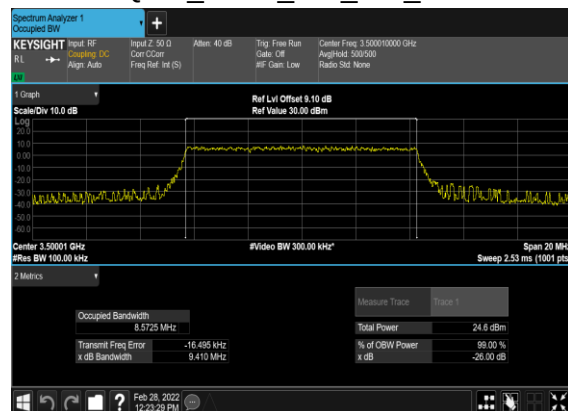
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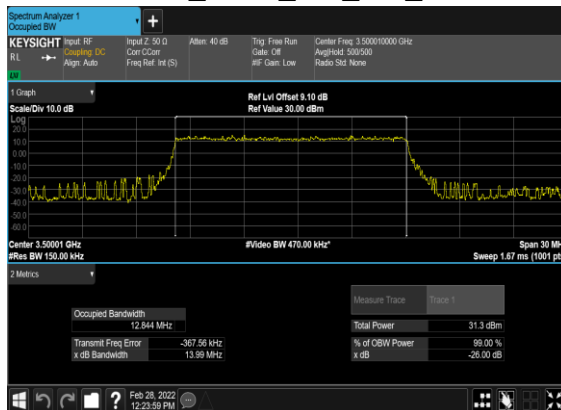
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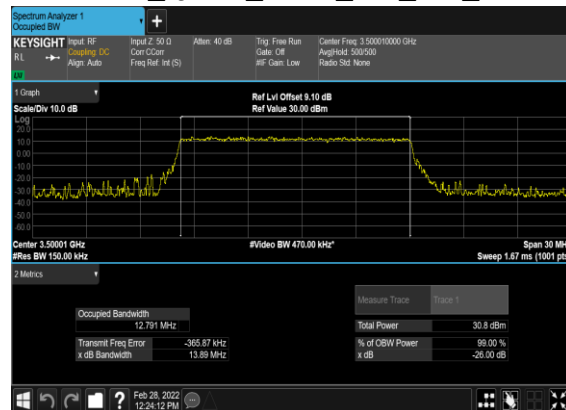
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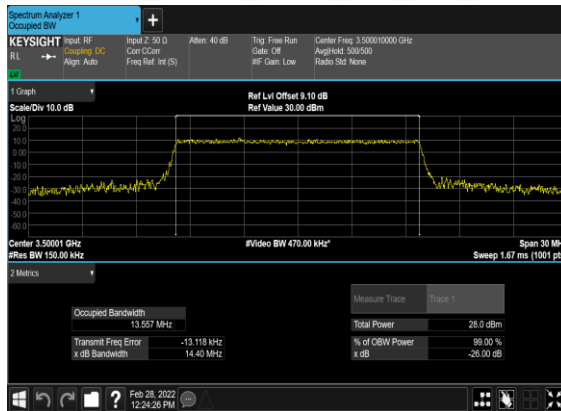
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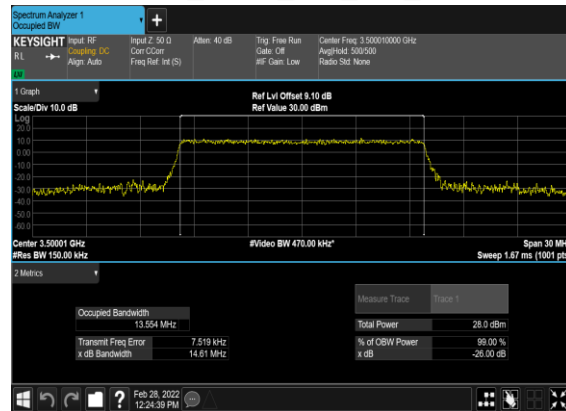
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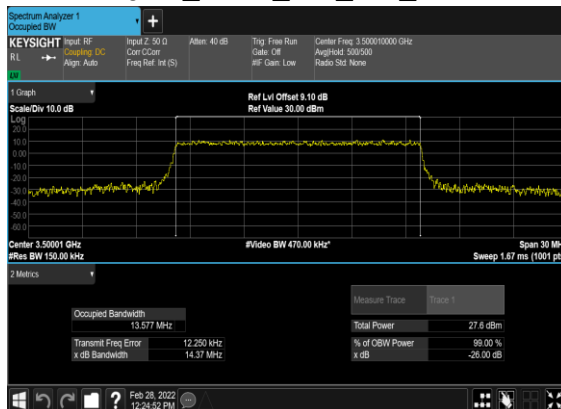
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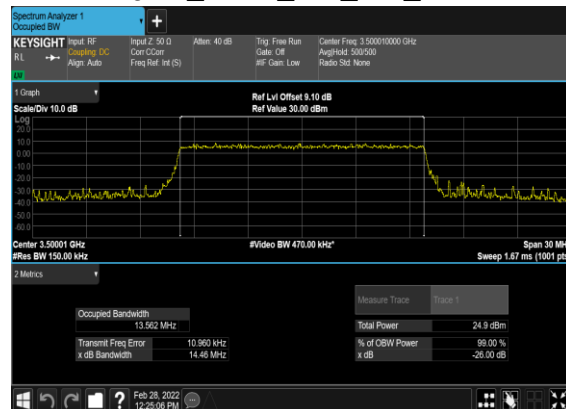
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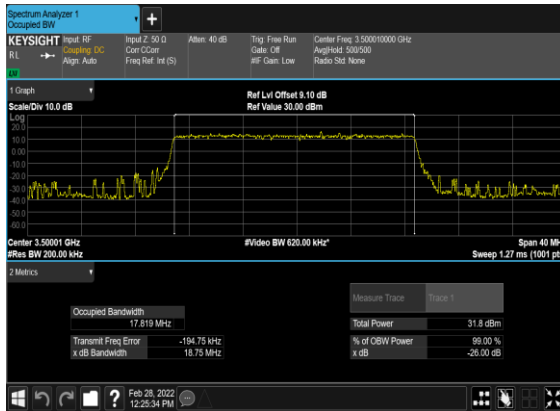
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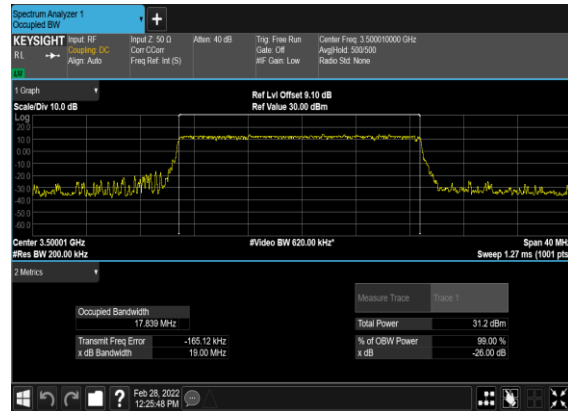
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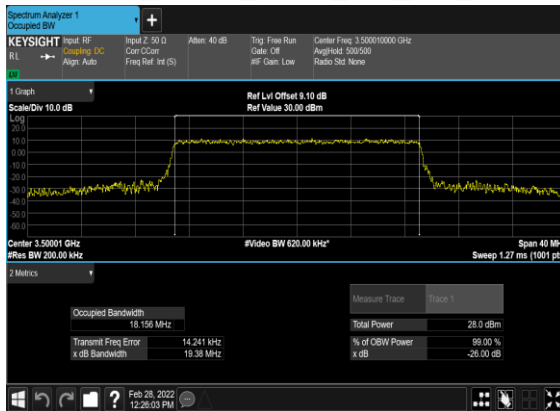
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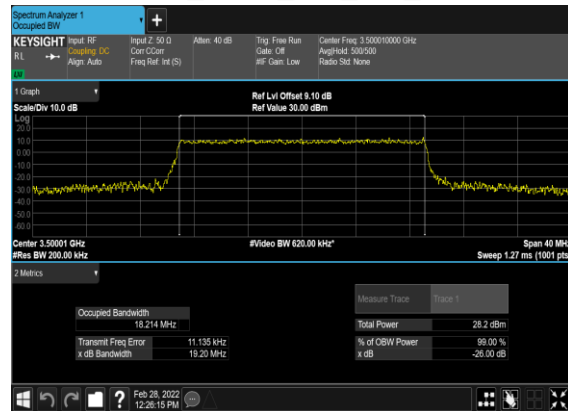
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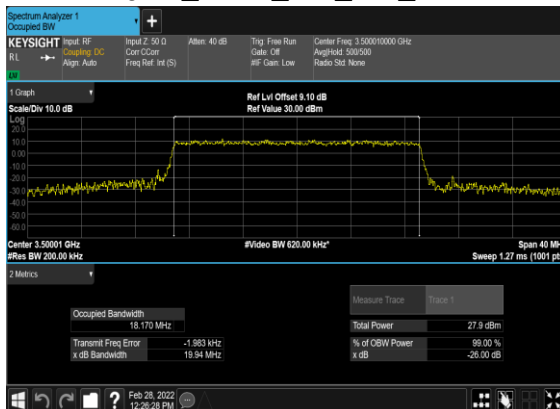
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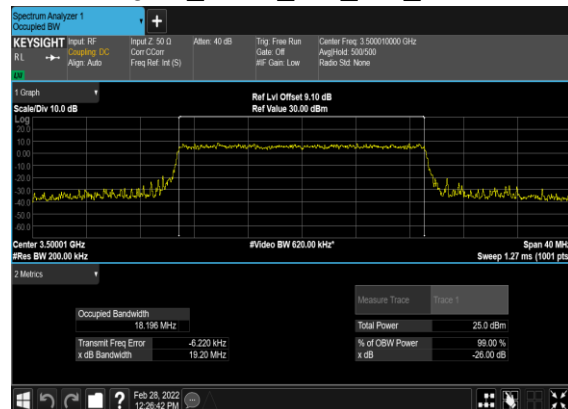
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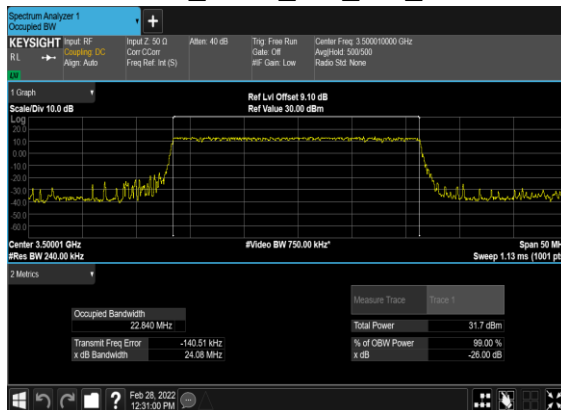
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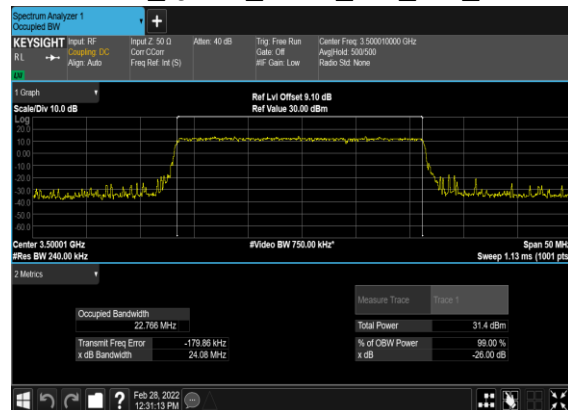
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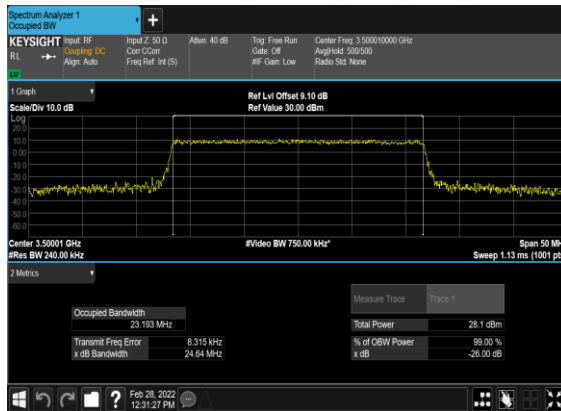
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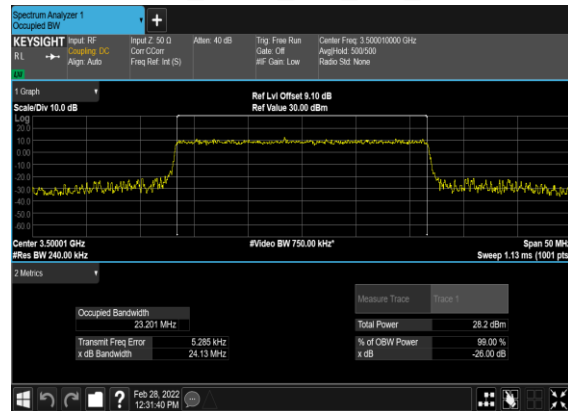
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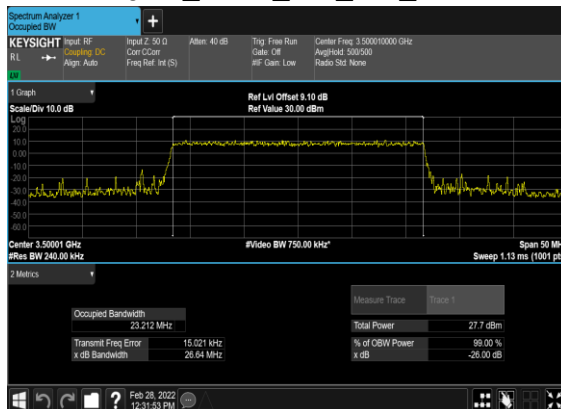
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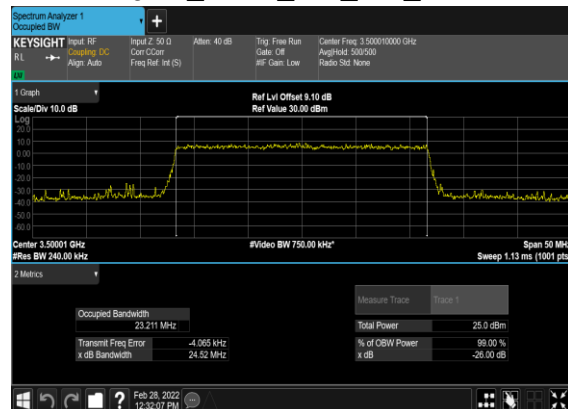
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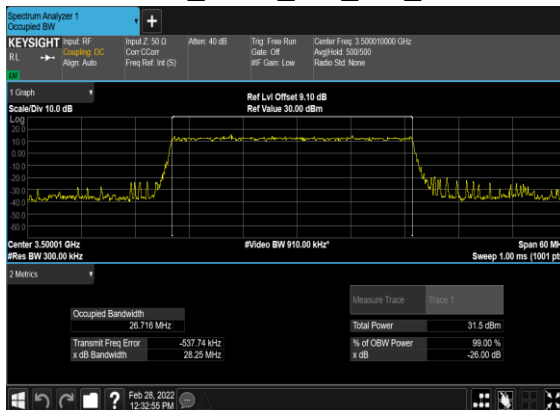
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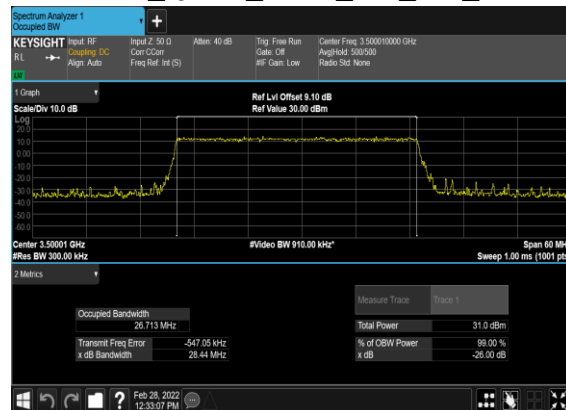
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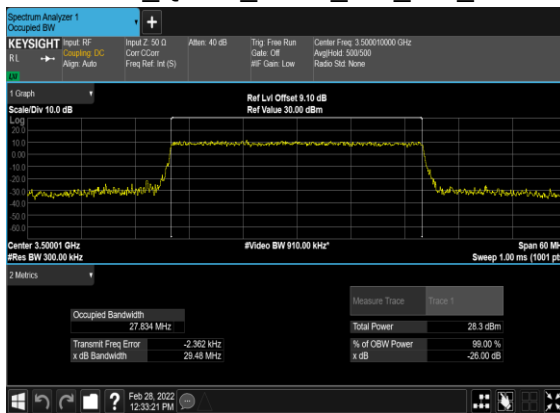
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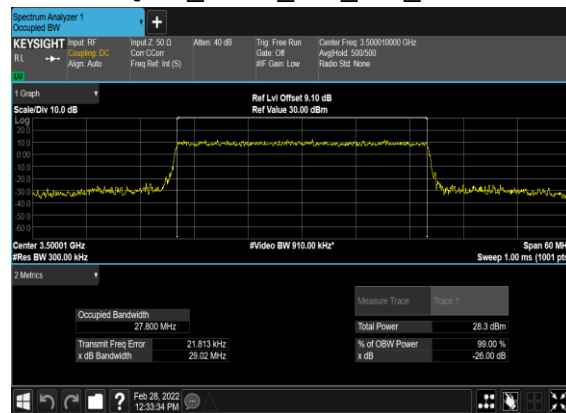
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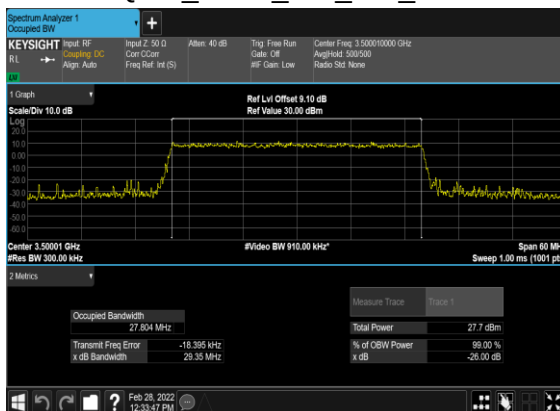
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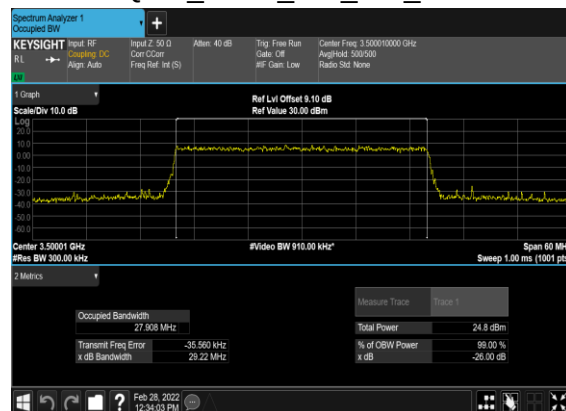
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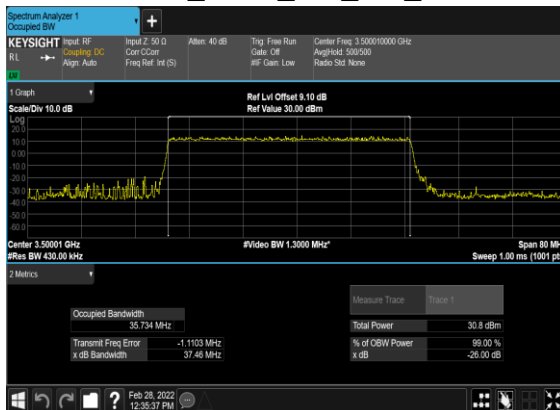
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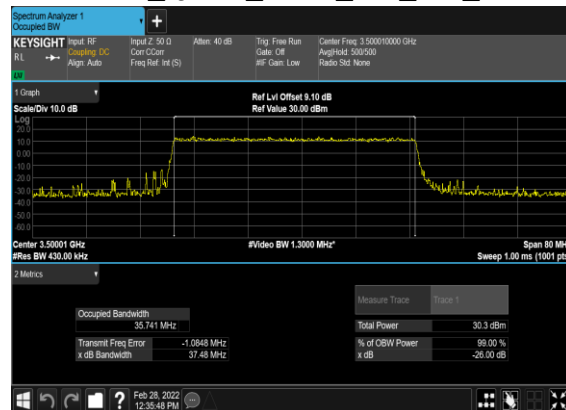
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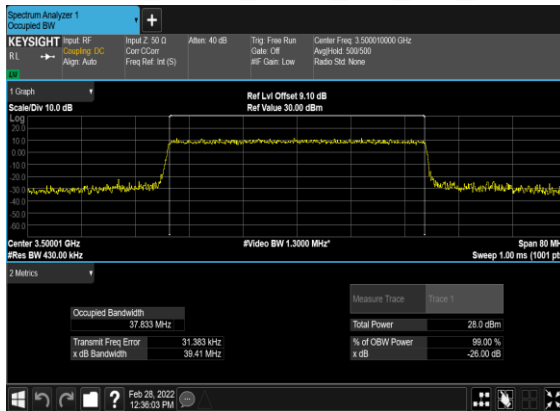
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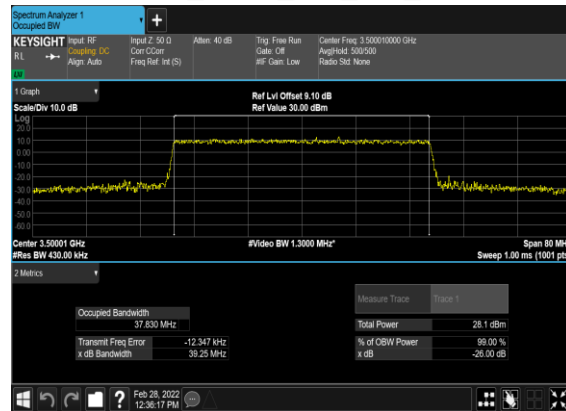
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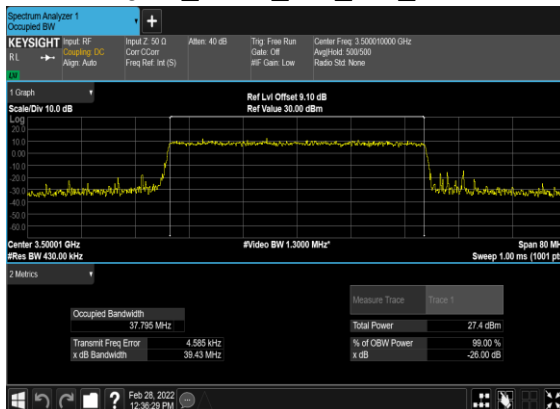
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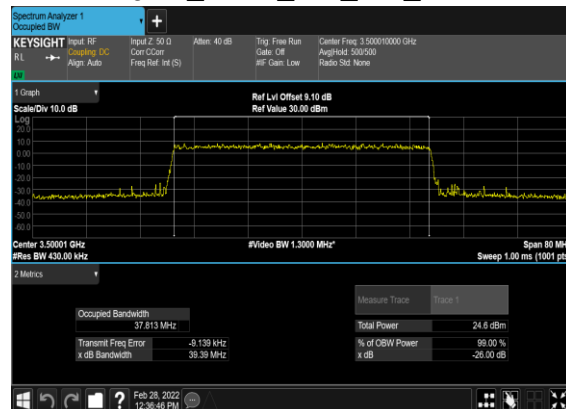
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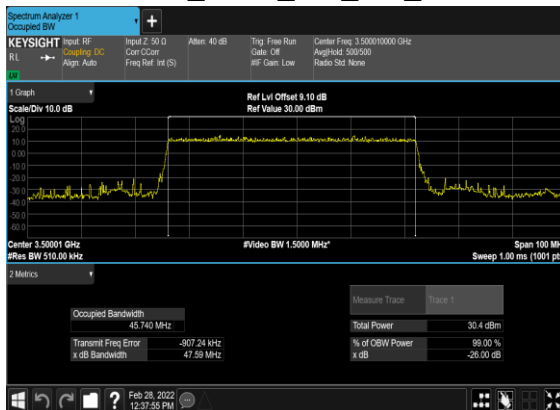
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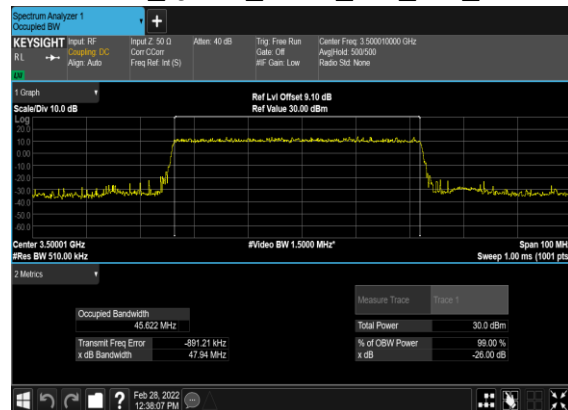
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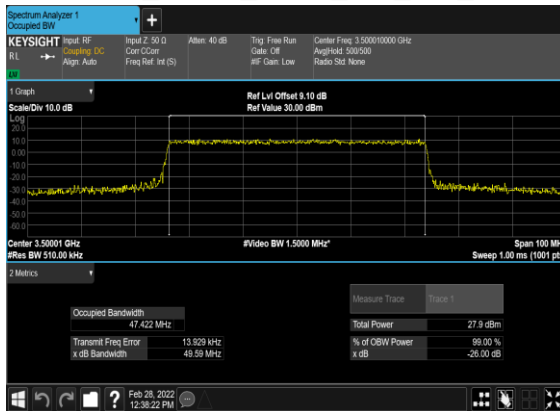
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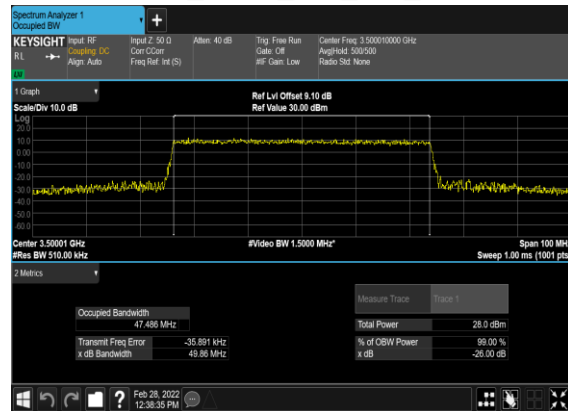
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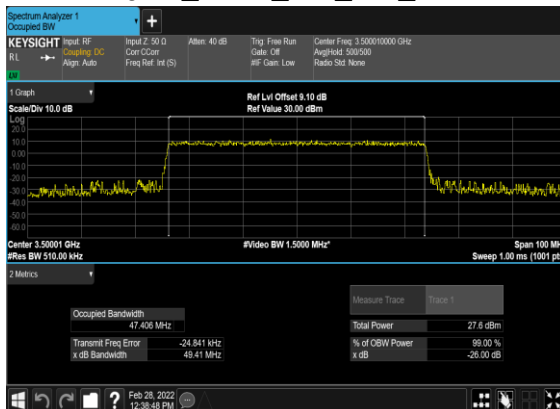
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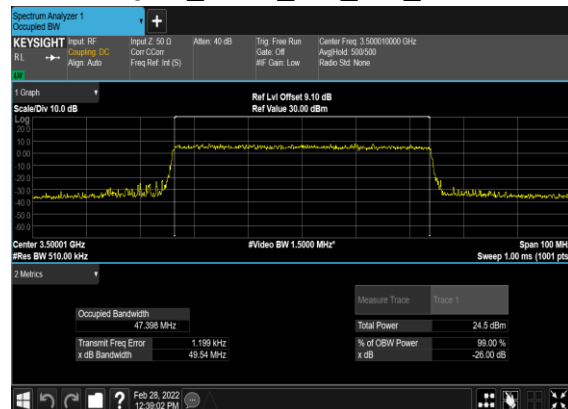
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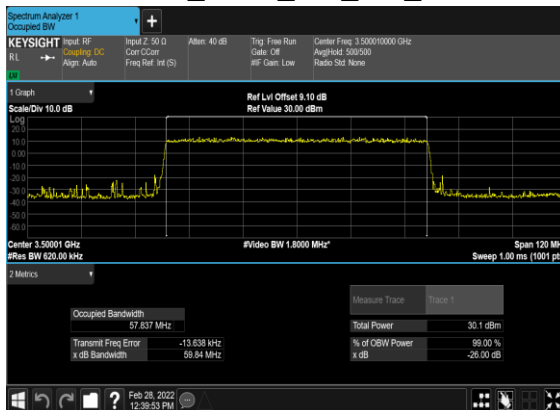
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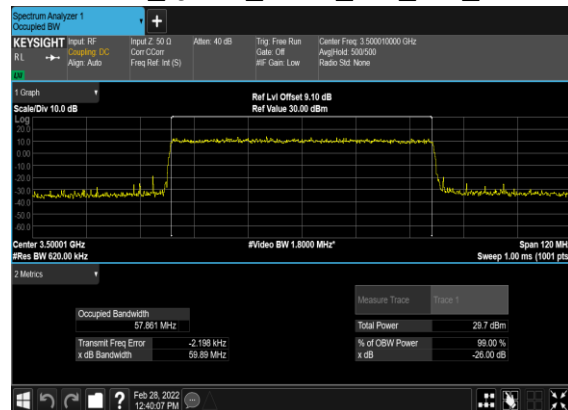
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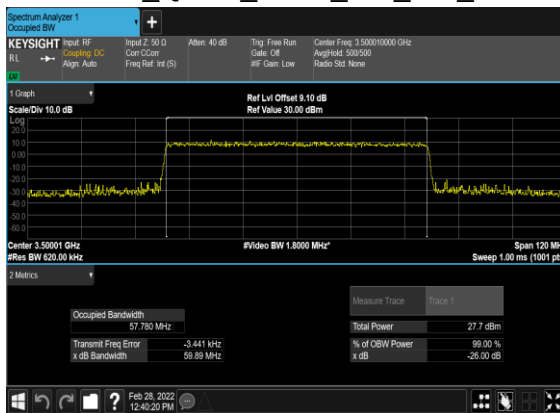
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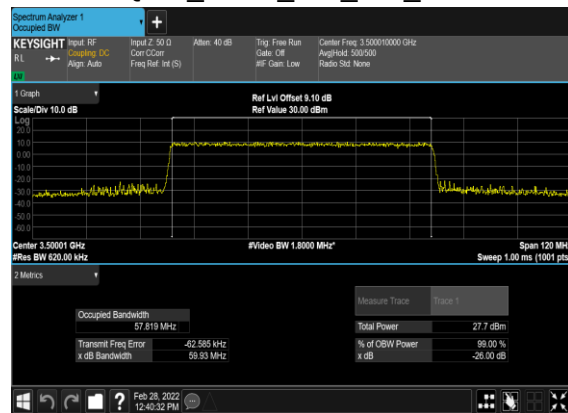
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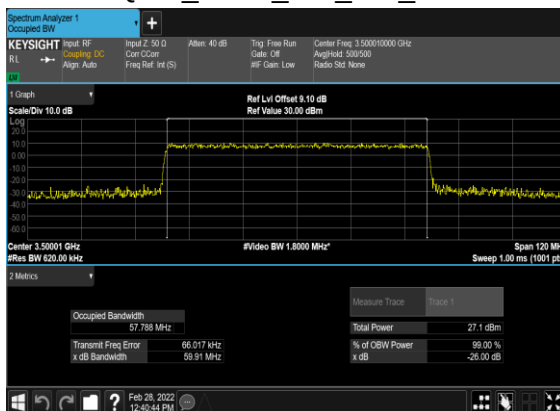
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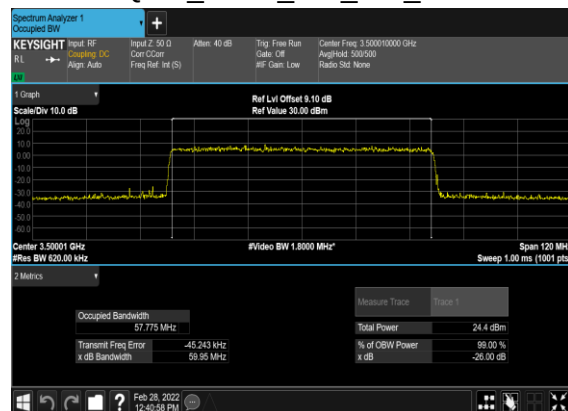
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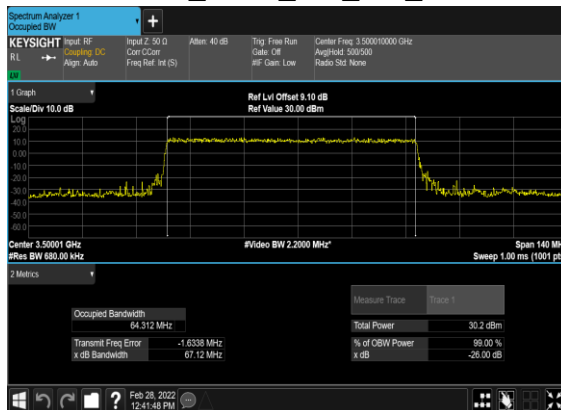
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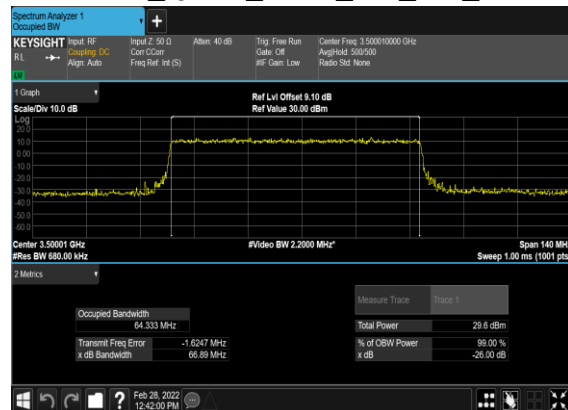
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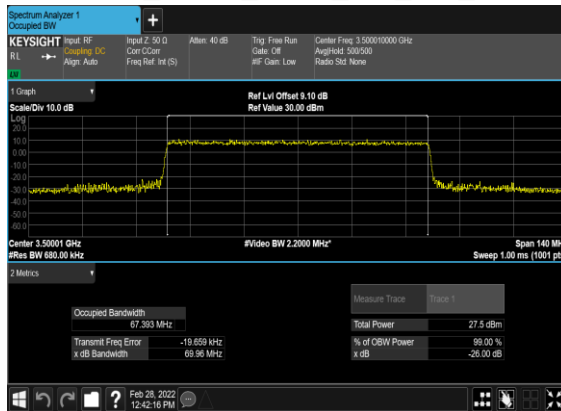
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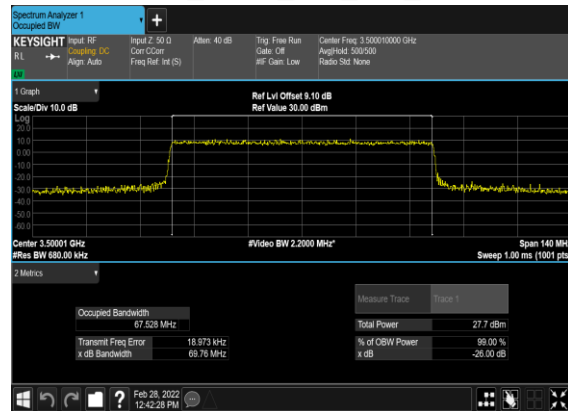
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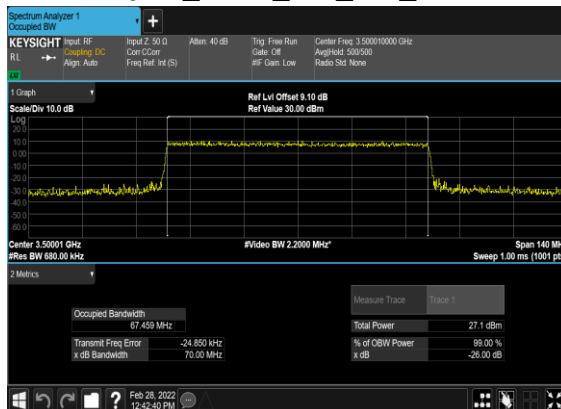
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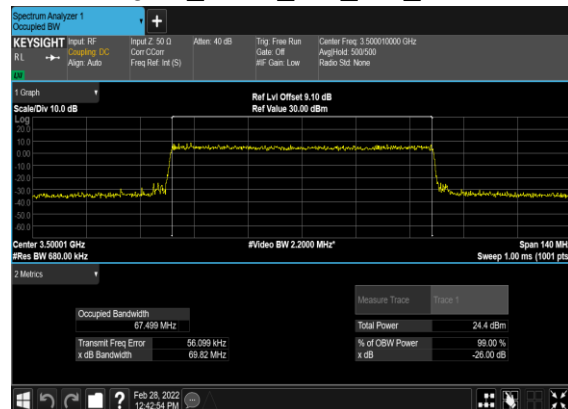
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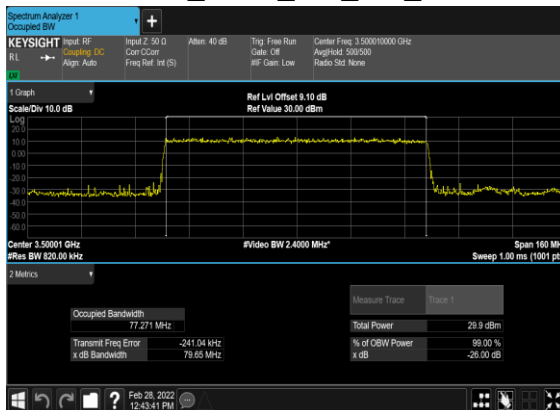
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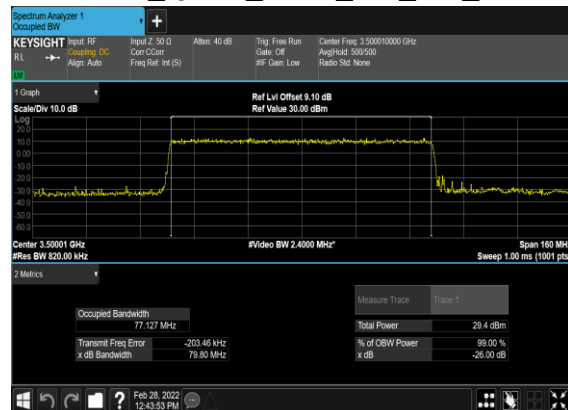
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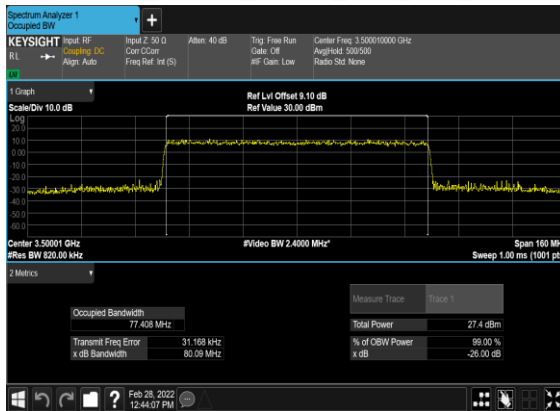
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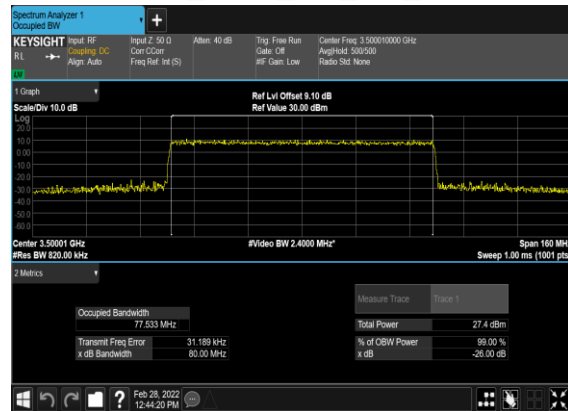
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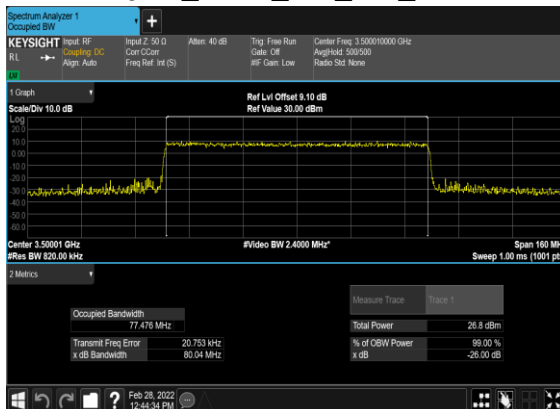
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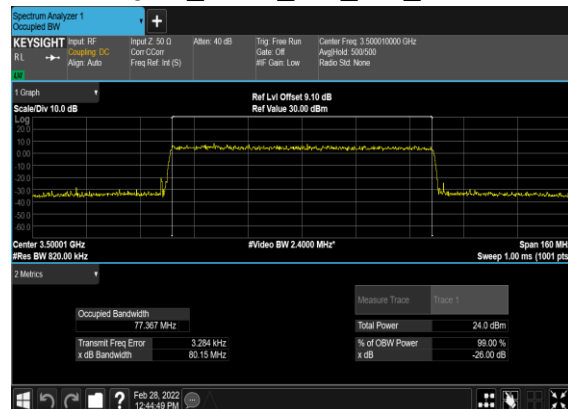
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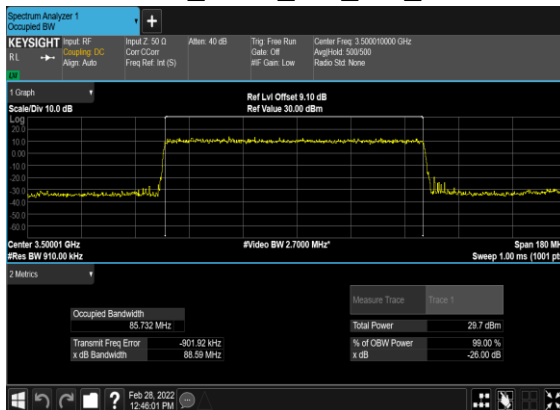
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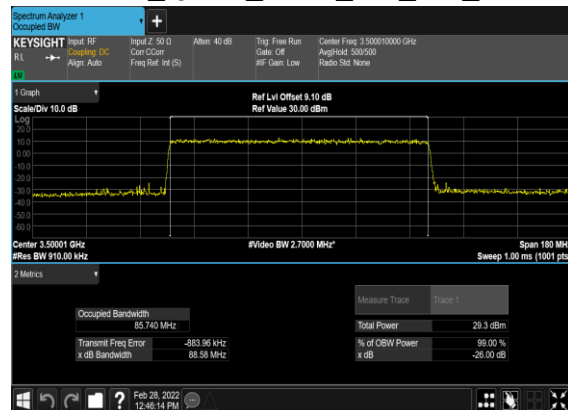
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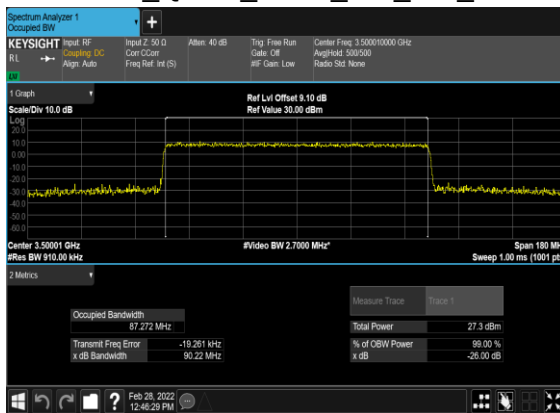
N77(90M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_Mid_CH



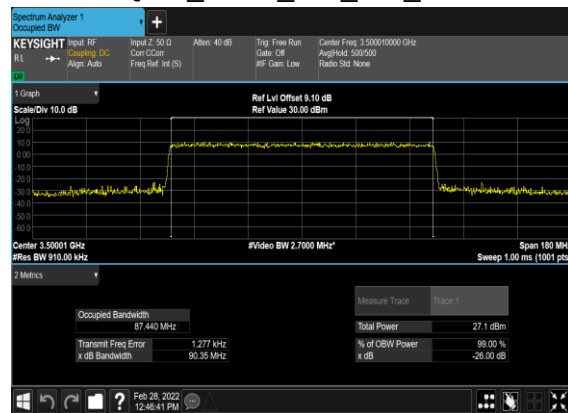
N77(90M)_DFT-s-
OFDM_QPSK_Outer_Full_Mid_CH



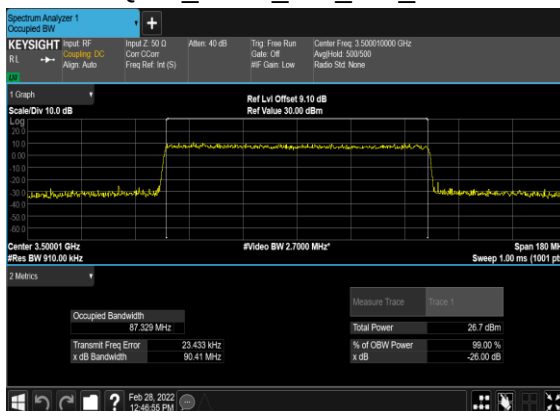
N77(90M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



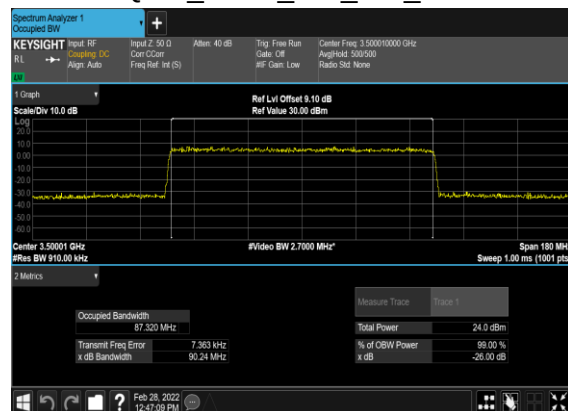
N77(90M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



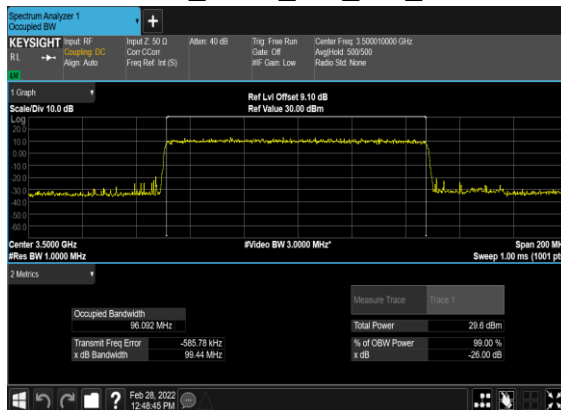
N77(90M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



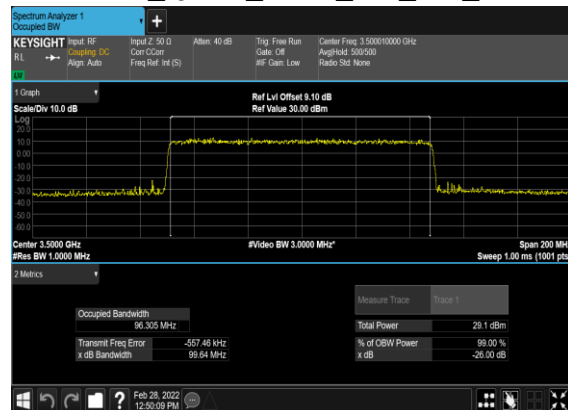
N77(90M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



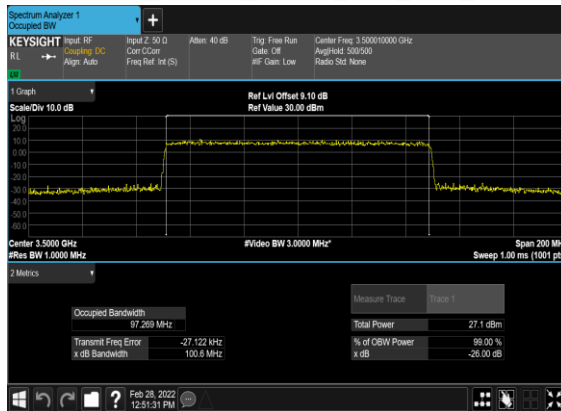
N77(100M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_Mid_CH



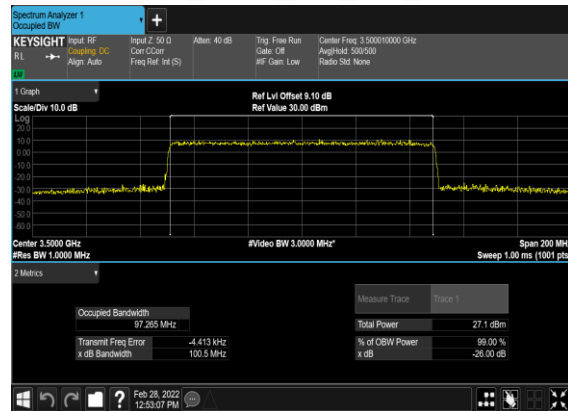
N77(100M)_DFT-s-
OFDM_QPSK_Outer_Full_Mid_CH



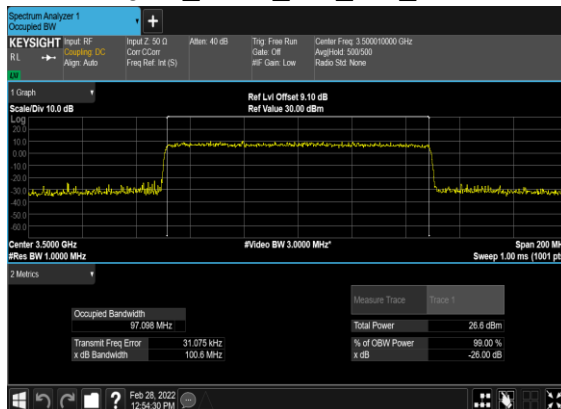
N77(100M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



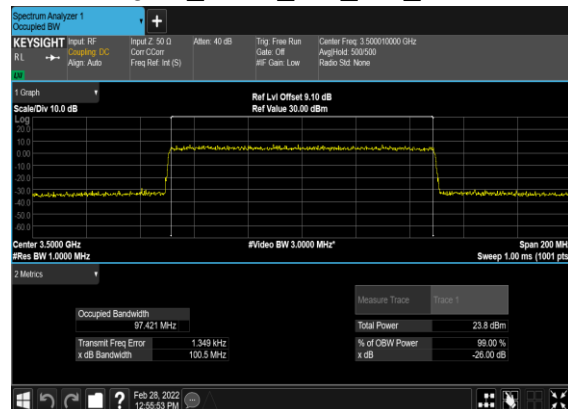
N77(100M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N77(100M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



N77(100M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



Conducted Spurious Emissions

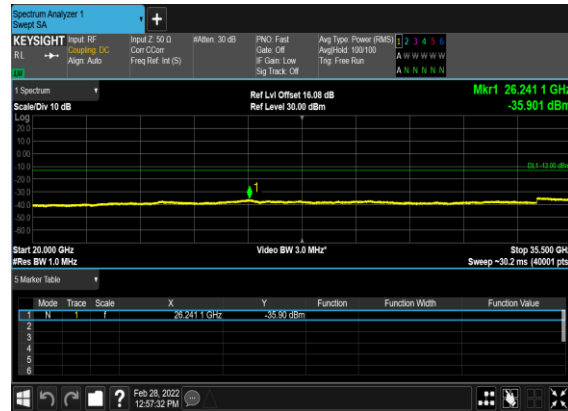
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
77	30	10	630334	3455.01	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	10	630334	3455.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	10	630334	3455.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	10	630334	3455.01	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	10	630334	3455.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	10	630334	3455.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	10	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	10	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	10	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	10	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	10	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	10	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	10	636332	3544.98	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	10	636332	3544.98	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	10	636332	3544.98	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	10	636332	3544.98	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	10	636332	3544.98	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	10	636332	3544.98	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	50	631668	3475.02	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	50	631668	3475.02	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	50	631668	3475.02	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@0	see graph	---

77	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	50	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	50	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	50	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	50	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	50	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	50	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	50	635000	3525.0	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	50	635000	3525.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	50	635000	3525.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	50	635000	3525.0	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	50	635000	3525.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	50	635000	3525.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	100	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	100	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	100	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS

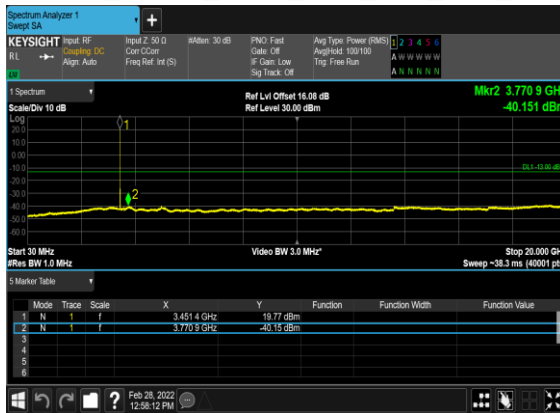
N77(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



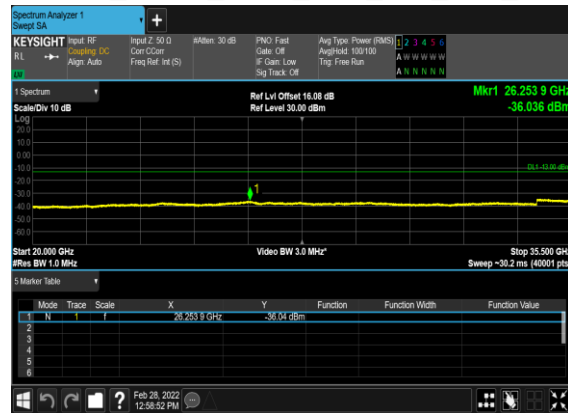
N77(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



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

