FCC RF Test Report

APPLICANT	:	Xiaomi Communications Co., Ltd.
EQUIPMENT	:	Mobile Phone
BRAND NAME	:	POCO
MODEL NAME	:	22011211G
FCC ID	:	2AFZZ211G
STANDARD	:	47 CFR Part 2, 27
CLASSIFICATION	:	PCS Licensed Transmitter Held to Ear (PCE)
TEST DATE(S)	:	Jan. 20, 2022 ~ Feb. 02, 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.

Reviewed by: Derreck Chen / Supervisor

Approved by: Eric Shih / Manager

ACCREDITED Cert #5145.01

Sporton International Inc. (ShenZhen)

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People's Republic of China

TABLE OF CONTENTS

REVISION HISTORY **3**

SUMMARY OF TEST RESULT **4**

1 GENERAL DESCRIPTION **5**

1.1 Applicant 5
1.2 Manufacturer 5
1.3 Product Feature of Equipment Under Test 5
1.4 Product Specification of Equipment Under Test 6
1.5 Modification of EUT 6
1.6 Maximum EIRP Power and Emission Designator 7
1.7 Testing Location 9
1.8 Test Software 9
1.9 Applicable Standards 9

2 TEST CONFIGURATION OF EQUIPMENT UNDER TEST **10**

2.1 Test Mode 10
2.2 Connection Diagram of Test System 11
2.3 Support Unit used in test configuration and system 11
2.4 Measurement Results Explanation Example 11
2.5 Frequency List of Low/Middle/High Channels 12

3 CONDUCTED TEST ITEMS **14**

3.1 Measuring Instruments 14
3.2 Test Setup 14
3.3 Test Result of Conducted Test 14
3.4 Conducted Output Power and EIRP 15
3.5 Peak-to-Average Ratio 16
3.6 Occupied Bandwidth 17
3.7 Conducted Band Edge 18
3.8 Conducted Spurious Emission 19
3.9 Frequency Stability 20

4 RADIATED TEST ITEMS **21**

4.1 Measuring Instruments 21
4.2 Test Setup 21
4.3 Test Result of Radiated Test 22
4.4 Radiated Spurious Emission 23

5 LIST OF MEASURING EQUIPMENT **24**

6 UNCERTAINTY OF EVALUATION **25**

APPENDIX A. TEST RESULTS OF CONDUCTED TEST

APPENDIX B. TEST RESULTS OF RADIATED TEST

APPENDIX C. TEST SETUP PHOTOGRAPHS

REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG1D3005G	Rev. 01	Initial issue of report	Feb. 16, 2022

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	Reporting Only	PASS	-
	§27.50(j)(3)	Equivalent Isotropic Radiated Power (5G NR n77, n78)	EIRP < 1Watt		
3.5	§27.50(j)(4)	Peak-to-Average Ratio	<13 dB	PASS	-
3.6	§2.1049	Occupied Bandwidth	Reporting Only	PASS	-
3.7	§2.1051 §27.53(l)(2)	Conducted Band Edge Measurement (5G NR n77, n78)	< 43+10log10(P[Watts])	PASS	-
3.8	§2.1051 §27.53(l)(2)	Conducted Spurious Emission (5G NR n77, n78)	< 43+10log10(P[Watts])	PASS	-
3.9	§2.1055 §27.54	Frequency Stability Temperature & Voltage	Within Authorized Band	PASS	-
4.4	§2.1053 §27.53(l)(2)	Radiated Spurious Emission (5G NR n77, n78)	< 43+10$\log_{10}$(P[Watts])	PASS	Under limit 32.53 dB at 14805.000 MHz

Declaration of Conformity:

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

Comments and Explanations:

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

1 General Description

1.1 Applicant

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

1.2 Manufacturer

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

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Phone
Brand Name	POCO
Model Name	22011211G
FCC ID	2AFZZ211G
IMEI Code	Conducted : 860000050060420 Radiation : 860000050055440/860000050055457
HW Version	P2
SW Version	MIUI 13
EUT Stage	Identical Prototype

Remark: Only 5G NR bands are tested in this report, all the other RF bands are tested in the other reports separately.

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	5G NR n77: 3700 MHz ~ 3980 MHz 5G NR n78: 3700 MHz ~ 3800 MHz
Rx Frequency	5G NR n77: 3700 MHz ~ 3980 MHz 5G NR n78: 3700 MHz ~ 3800 MHz
SCS	15kHz, 30kHz
Bandwidth	n77, n78(15kHz): 10MHz / 15MHz / 20MHz / 25MHz / 30MHz / 40MHz / 50MHz n77, n78(30kHz): 10MHz / 15MHz / 20MHz / 25MHz / 30MHz / 40MHz / 50MHz / 60MHz / 70MHz / 80MHz / 90MHz / 100MHz
Antenna Gain	**Ant. 4:** 5G NR n77: -1.02 dBi 5G NR n78: -1.02 dBi **Ant. 6:** 5G NR n77: -1.68 dBi 5G NR n78: -1.68 dBi **Ant. 7:** 5G NR n77: -1.01 dBi 5G NR n78: -1.01 dBi **Ant. 8:** 5G NR n77: -1.89 dBi 5G NR n78: -1.89 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 max antenna gain, only the maximum EIRP is shown in the report, 5G NR n77/n78 for Antenna 4.
2. 5G NR Band supports SA and NSA mode for SCS 15kHz/30kHz. According to the maximum power between SA and NSA mode, SA covers NSA mode for 5G NR n78.
3. 5G NR Band supports SA mode for SCS 15kHz/30kHz of 5G NR n77 only.
4. The device supports HPUE mode for 5G NR SA n78.
5. The EN-DC mode combination could be referred to the product spec.

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 (15kHz)		PI/2 BPSK / QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
10	3705.00 ~ 3975.00	0.3006	9M28G7D	0.2393	9M29W7D
15	3707.505 ~ 3972.495	0.3013	14M1G7D	0.2410	14M1W7D
20	3710.01 ~ 3969.99	0.2992	18M9G7D	0.2388	18M9W7D
25	3712.50 ~ 3967.50	0.2630	23M7G7D	0.2065	23M7W7D
30	3715.005 ~ 3964.98	0.2692	28M6G7D	0.2158	28M6W7D
40	3720.00 ~ 3960.00	0.2891	38M6G7D	0.2323	38M5W7D
50	3725.01 ~ 3954.99	0.2884	48M2G7D	0.2291	48M1W7D

5G NR n77 (30kHz)		PI/2 BPSK / QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
10	3705.00 ~ 3975.00	0.2704	8M59G7D	0.2158	8M59W7D
15	3707.52 ~ 3972.48	0.2704	13M6G7D	0.2138	13M6W7D
20	3710.01 ~ 3969.99	0.2704	18M2G7D	0.2143	18M2W7D
25	3712.50 ~ 3967.50	0.2541	23M2G7D	0.2037	23M2W7D
30	3715.02 ~ 3964.98	0.2606	27M8G7D	0.2056	27M8W7D
40	3720.00 ~ 3960.00	0.2624	37M8G7D	0.2070	37M9W7D
50	3725.01 ~ 3954.99	0.2618	47M4G7D	0.2089	47M5W7D
60	3730.02 ~ 3949.98	0.2606	57M9G7D	0.2056	57M8W7D
70	3735.00 ~ 3945.00	0.2723	67M5G7D	0.2138	67M5W7D
80	3740.01 ~ 3939.99	0.2704	77M5G7D	0.2138	77M5W7D
90	3745.02 ~ 3934.98	0.2704	87M5G7D	0.2148	87M5W7D
100	3750.00 ~ 3930.00	0.2698	97M5G7D	0.2158	97M5W7D

5G NR n78(15kHz)		PI/2 BPSK / QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
10	3705.00 ~ 3795.00	0.4159	9M29G7D	0.3304	9M29W7D
15	3707.505 ~ 3792.495	0.4188	14M1G7D	0.3289	14M1W7D
20	3710.01 ~ 3789.99	0.4140	18M9G7D	0.3304	18M9W7D
25	3712.50 ~ 3787.50	0.3606	23M7G7D	0.2851	23M7W7D
30	3715.005 ~ 3784.995	0.3639	28M6G7D	0.2917	28M6W7D
40	3720.00 ~ 3780.00	0.3981	38M6G7D	0.3184	38M6W7D
50	3725.01 ~ 3774.99	0.4018	48M2G7D	0.3192	48M2W7D

5G NR n78(30kHz)		PI/2 BPSK / QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
10	3705.00 ~ 3795.00	0.3793	8M59G7D	0.3048	8M60W7D
15	3707.52 ~ 3792.48	0.3758	13M6G7D	0.2999	13M6W7D
20	3710.01 ~ 3789.99	0.3741	18M2G7D	0.2999	18M3W7D
25	3712.50 ~ 3787.50	0.3162	23M2G7D	0.2529	23M2W7D
30	3715.02 ~ 3784.98	0.3342	27M8G7D	0.2612	27M8W7D
40	3720.00 ~ 3780.00	0.3681	37M9G7D	0.2891	37M8W7D
50	3725.01 ~ 3774.99	0.3673	47M4G7D	0.2897	47M5W7D
60	3730.02 ~ 3769.98	0.3656	57M9G7D	0.2877	57M9W7D
70	3735.00 ~ 3765.00	0.3690	67M5G7D	0.2917	67M4W7D
80	3740.01 ~ 3759.99	0.3698	77M6G7D	0.2944	77M6W7D
90	3745.02 ~ 3754.98	0.3664	87M6G7D	0.2931	87M7W7D
100	3750.00	0.3639	97M5G7D	0.2891	97M6W7D

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

1.7 Testing Location

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

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

Test Firm	Sporton International Inc. (Shenzhen)		
Test Site Location	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City Guangdong Province China 518103 TEL: +86-755-33202398		
Test Site No.	**Sporton Site No.**	**FCC Designation No.**	**FCC Test Firm Registration No.**
	03CH03-SZ	CN1256	421272

1.8 Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH03-SZ	AUDIX	E3	6.2009-8-24

1.9 Applicable Standards

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

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

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

2 Test Configuration of Equipment Under Test

2.1 Test Mode

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

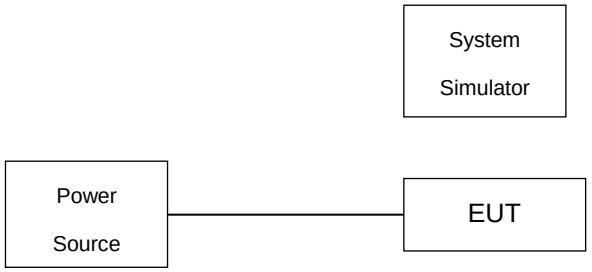
For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Z plane) were recorded in this report.

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

Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane

Test Items	5G NR	Bandwidth (MHz)									Modulation					RB #		Test Channel		
		5	10	15	20	25	30	40	50-90	100	PI/2 BPSK	QPSK	16QAM	64QAM	256 QAM	1	Full	L	M	H
Max. Output Power	n77	-	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	n78	-	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
Peak-to-Average Ratio	n77	-			v						v	v				v	v	v	v	v
	n78				v						v	v				v	v	v	v	v
26dB and 99% Bandwidth	n77	-	v	v	v	v	v	v	v	v	v	v	v	v	v		v		v	
	n78		v	v	v	v	v	v	v	v	v	v	v	v	v		v		v	
Conducted Band Edge	n77	-	v			v			v	v	v	v				v	v	v		v
	n78		v			v			v	v	v	v				v	v	v		v
Conducted Spurious Emission	n77	-	v			v			v	v	v	v				v		v	v	v
	n78		v			v			v	v	v	v				v		v	v	v
Frequency Stability	n77	-			v				-	-		v					v		v	
	n78				v							v					v		v	
E.R.P / E.I.R.P	n77	-	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	n78		v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
Radiated Spurious Emission	n77	Worst Case																	v	
	n78	Worst Case																	v	
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. Based on engineering evaluation, only the worst modulations test results are shown in the report. 5. Normal Voltage: 3.85Vdc, Extreme Voltage: 3.6Vdc ~4.25Vdc																			

2.2 Connection Diagram of Test System



This example is connection diagram of EUT test configurations.

. For detail, please refer to test mode configuration and setup photographs for each test item.

2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	DC Power Supply	GW	GPS-3030D	N/A	N/A	Unshielded, 1.8 m
2.	Base Station	Anritsu	MT8821C	N/A	N/A	Unshielded,1.8m
3.	Base Station	Anritsu	MT8000A	N/A	N/A	Unshielded,1.8m

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 6.10 dB and 10dB attenuator.

Example :

Offset(dB) = RF cable loss(dB) + attenuator factor(dB).

= 6.10 + 10 = 16.10 (dB)

2.5 Frequency List of Low/Middle/High Channels

5G n77 (15kHz) Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
50	Channel	648334	656000	663666
	Frequency	3725.01	3840	3954.99
40	Channel	648000	656000	664000
	Frequency	3720	3840	3960
30	Channel	647667	656000	664332
	Frequency	3715.005	3840	3964.98
25	Channel	647500	656000	664500
	Frequency	3712.5	3840	3967.5
20	Channel	647334	656000	664666
	Frequency	3710.01	3840	3969.99
15	Channel	647167	656000	664833
	Frequency	3707.505	3840	3972.495
10	Channel	647000	656000	665000
	Frequency	3705	3840	3975

5G n77 (30kHz) Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
100	Channel	650000	656000	662000
	Frequency	3750	3840	3930
90	Channel	649668	656000	662332
	Frequency	3745.02	3840	3934.98
80	Channel	649334	656000	662666
	Frequency	3740.01	3840	3939.99
70	Channel	649000	656000	663000
	Frequency	3735	3840	3945
60	Channel	648668	656000	663332
	Frequency	3730.02	3840	3949.98
50	Channel	648334	656000	663666
	Frequency	3725.01	3840	3954.99
40	Channel	648000	656000	664000
	Frequency	3720	3840	3960
30	Channel	647668	656000	664332
	Frequency	3715.02	3840	3964.98
25	Channel	647500	656000	664500
	Frequency	3712.5	3840	3967.5
20	Channel	647334	656000	664666
	Frequency	3710.01	3840	3969.99
15	Channel	647168	656000	664832
	Frequency	3707.52	3840	3972.48
10	Channel	647000	656000	665000
	Frequency	3705	3840	3975

5G n78(15kHz) Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
50	Channel	648334	650000	651666
	Frequency	3725.01	3750	3774.99
40	Channel	648000	650000	652000
	Frequency	3720	3750	3780
30	Channel	647667	650000	652333
	Frequency	3715.005	3750	3784.995
25	Channel	647500	650000	652500
	Frequency	3712.5	3750	3787.5
20	Channel	647334	650000	652666
	Frequency	3710.01	3750	3789.99
15	Channel	647167	650000	652833
	Frequency	3707.505	3750	3792.495
10	Channel	647000	650000	653000
	Frequency	3705	3750	3795

5G n78(30kHz) Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
100	Channel		650000	
	Frequency		3750	
90	Channel	649668	650000	650332
	Frequency	3745.02	3750	3754.98
80	Channel	649334	650000	650666
	Frequency	3740.01	3750	3759.99
70	Channel	649000	650000	651000
	Frequency	3735	3750	3765
60	Channel	648668	650000	651332
	Frequency	3730.02	3750	3769.98
50	Channel	648334	650000	651666
	Frequency	3725.01	3750	3774.99
40	Channel	648000	650000	652000
	Frequency	3720	3750	3780
30	Channel	647668	650000	652332
	Frequency	3715.02	3750	3784.98
25	Channel	647500	650000	652500
	Frequency	3712.5	3750	3787.5
20	Channel	647334	650000	652666
	Frequency	3710.01	3750	3789.99
15	Channel	647168	650000	652832
	Frequency	3707.52	3750	3792.48
10	Channel	647000	650000	653000
	Frequency	3705	3750	3795

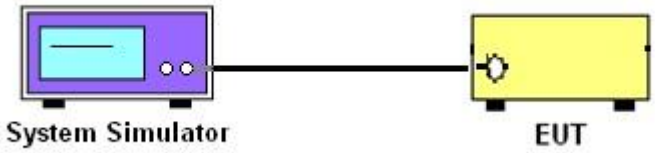
3 Conducted Test Items

3.1 Measuring Instruments

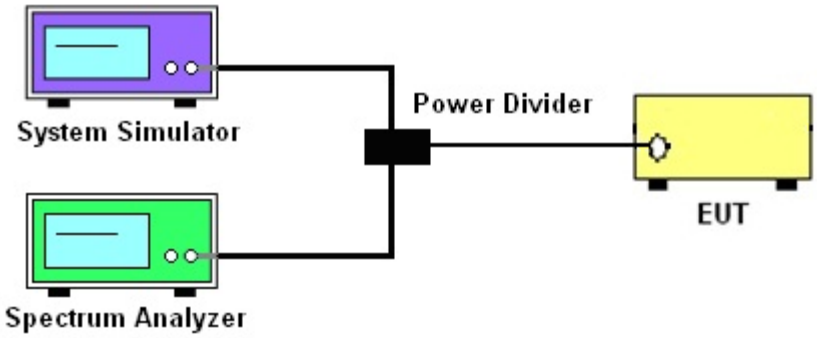
See list of measuring instruments of this test report.

3.2 Test Setup

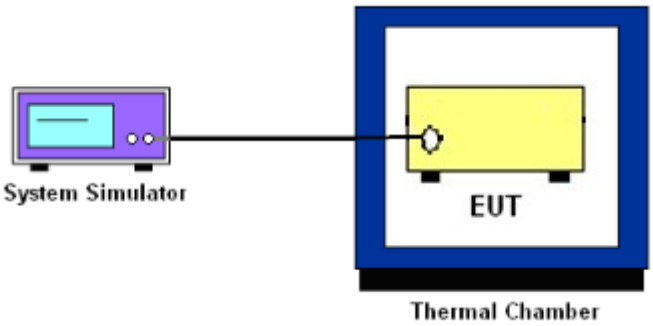
3.2.1 Conducted Output Power



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



3.2.3 Frequency Stability



3.3 Test Result of Conducted Test

Please refer to Appendix A.

3.4 Conducted Output Power and EIRP

3.4.1 Description of the Conducted Output Power Measurement and EIRP Measurement

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

The EIRP of mobile transmitters must not exceed 1 Watts for 5G NR n77, n78.

According to KDB 412172 D01 Power Approach,

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

P_T = transmitter output power in dBm

G_T = gain of the transmitting antenna in dBi

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

3.4.2 Test Procedures

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

3.5 Peak-to-Average Ratio

3.5.1 Description of the PAR Measurement

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

3.5.2 Test Procedures

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

3.6 Occupied Bandwidth

3.6.1 Description of Occupied Bandwidth Measurement

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

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

3.6.2 Test Procedures

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

3.7 Conducted Band Edge

3.7.1 Description of Conducted Band Edge Measurement

27.53(l)(2)

For mobile operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed −13 dBm/MHz. Compliance with this paragraph is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be either one percent of the emission bandwidth of the fundamental emission of the transmitter or 350 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz.

3.7.2 Test Procedures

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

   Example:

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

   = P(W)- [43 + 10log(P)] (dB)

   = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB) = -13dBm.
9. When using the integration method, the starting frequency of the integration shall be centered at one-half of the RBW away from the band edge.

3.8 Conducted Spurious Emission

3.8.1 Description of Conducted Spurious Emission Measurement

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

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

3.8.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
4. The middle channel for the highest RF power within the transmitting frequency was measured.
5. The conducted spurious emission for the whole frequency range was taken.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz.
7. Set spectrum analyzer with RMS detector.
8. Taking the record of maximum spurious emission.
9. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
10. The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)
    = P(W)- [43 + 10log(P)] (dB)
    = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB)
    = -13dBm.

3.9 Frequency Stability

3.9.1 Description of Frequency Stability Measurement

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within ±0.00025% (±2.5ppm) of the center frequency.

3.9.2 Test Procedures for Temperature Variation

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

3.9.3 Test Procedures for Voltage Variation

1. The testing follows ANSI C63.26 section 5.6.5
2. The EUT was placed in a temperature chamber at 20±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.

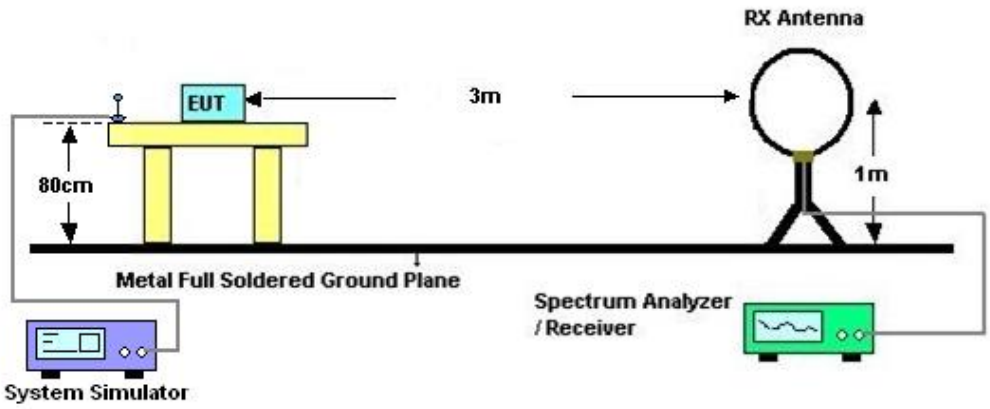
4 Radiated Test Items

4.1 Measuring Instruments

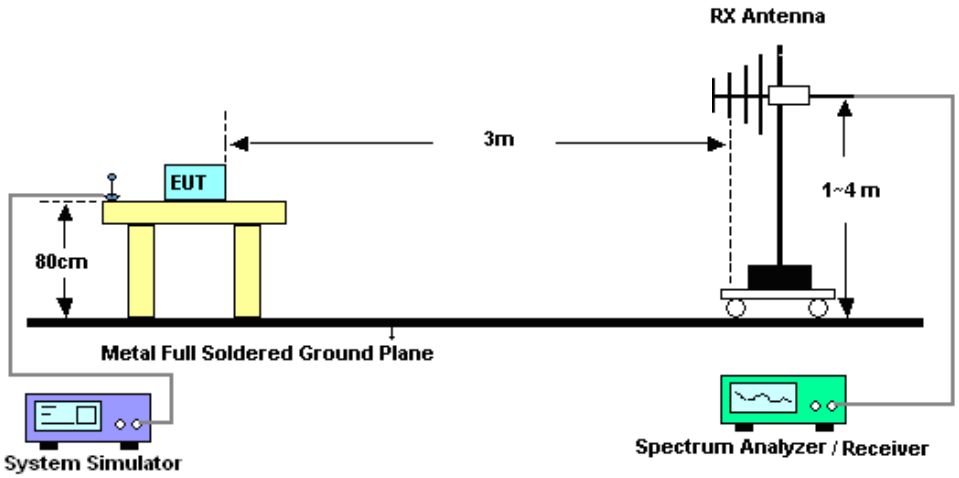
See list of measuring instruments of this test report.

4.2 Test Setup

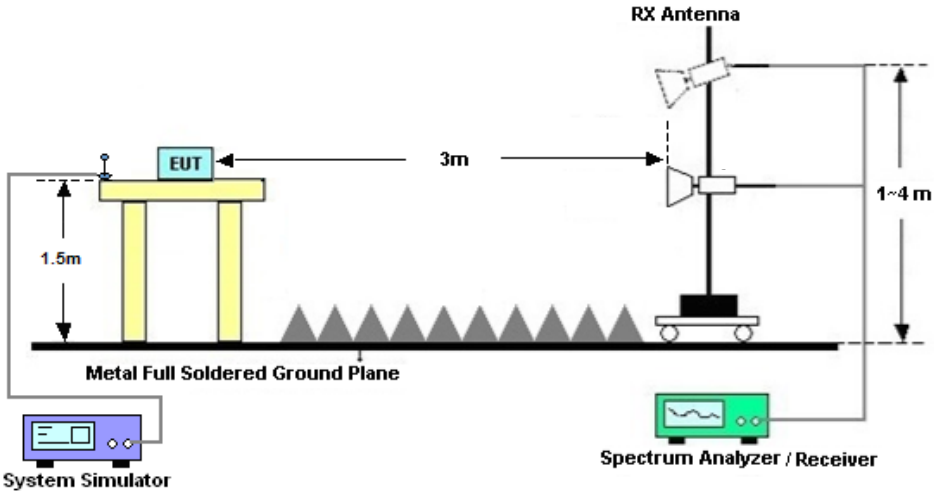
4.2.1 For radiated test below 30MHz



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

4.4.1 Description of Radiated Spurious Emission

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

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

4.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.5
2. The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
6. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
7. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
8. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
9. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
10. EIRP (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain
11. ERP (dBm) = EIRP - 2.15
12. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
    The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)
    = P(W)- [43 + 10log(P)] (dB)
    = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB)
    = -13dBm.

5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EXA Signal Analyzer	KEYSIGHT	N9010B	MY60240803	10Hz~44GHz	Apr. 03, 2021	Jan. 20, 2022~ Jan. 26, 2022	Apr. 02, 2022	Conducted (TH01-SZ)
Power divider	STI	STI08-0055	-	0.5~40GHz	Aug. 26, 2021	Jan. 20, 2022~ Jan. 26, 2022	Aug. 25, 2022	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 14, 2021	Jan. 20, 2022~ Jan. 26, 2022	Jul. 13, 2022	Conducted (TH01-SZ)
EMI Test Receiver&SA	KEYSIGHT	N9038A	MY54450083	20Hz~8.4GHz	Apr. 07, 2021	Feb. 02, 2022	Apr. 06, 2022	Radiation (03CH03-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jun. 22, 2021	Feb. 02, 2022	Jun. 21, 2022	Radiation (03CH03-SZ)
EXA Spectrum Anaiyzer	KEYSIGHT	N9010A	MY55150246	10Hz~44GHz;	Apr. 07, 2021	Feb. 02, 2022	Apr. 06, 2022	Radiation (03CH03-SZ)
Bilog Antenna	TeseQ	CBL6112D	35408	30MHz-2GHz	Jun. 22, 2021	Feb. 02, 2022	Jun. 21, 2022	Radiation (03CH03-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1355	1GHz~18GHz	Apr. 25, 2021	Feb. 02, 2022	Apr. 24, 2022	Radiation (03CH03-SZ)
Amplifier	Burgeon	BPA-530	102211	0.01Hz ~3000MHz	Oct. 22, 2021	Feb. 02, 2022	Oct. 21, 2022	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	TTA1840-35 -HG	1871923	18GHz~40GHz	Oct. 22, 2021	Feb. 02, 2022	Oct. 21, 2022	Radiation (03CH03-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Apr. 11, 2021	Feb. 02, 2022	Apr. 10, 2022	Radiation (03CH03-SZ)
Amplifier	Agilent Technologies	83017A	MY39501302	500MHz~26.5GHz	Dec. 29, 2021	Feb. 02, 2022	Dec. 28, 2022	Radiation (03CH03-SZ)
AC Power Source	Chroma	61601	616010001985	N/A	NCR	Feb. 02, 2022	NCR	Radiation (03CH03-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Feb. 02, 2022	NCR	Radiation (03CH03-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Feb. 02, 2022	NCR	Radiation (03CH03-SZ)

NCR: No Calibration Required

6 Uncertainty of Evaluation

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

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**3.0dB**

Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**3.6dB**

Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**3.8dB**

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

Appendix A. Test Results of Conducted Test

Test Engineer :	Jung Guo	**Temperature :**	21~23℃
		Relative Humidity :	45~51%

Software Version: 22.02.012001

FR1 N77(ANT4) – SCS 15kHz

Transmitter Conducted Output Power And EIRP, (GT - LC)=-1.02dB

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	EIRP (dBm)	EIRP (W)
77	15	10	647000	3705	DFT-s-OFDM PI/2 BPSK	25@12	25.7	24.68	0.2938
77	15	10	647000	3705	DFT-s-OFDM PI/2 BPSK	1@1	25.6	24.58	0.2871
77	15	10	647000	3705	DFT-s-OFDM PI/2 BPSK	1@50	25.61	24.59	0.2877
77	15	10	647000	3705	DFT-s-OFDM QPSK	25@12	25.72	24.7	0.2951
77	15	10	647000	3705	DFT-s-OFDM QPSK	1@1	25.59	24.57	0.2864
77	15	10	647000	3705	DFT-s-OFDM QPSK	1@50	25.6	24.58	0.2871
77	15	10	647000	3705	DFT-s-OFDM 16 QAM	25@12	24.78	23.76	0.2377
77	15	10	647000	3705	DFT-s-OFDM 16 QAM	1@1	24.69	23.67	0.2328
77	15	10	647000	3705	DFT-s-OFDM 16 QAM	1@50	24.69	23.67	0.2328
77	15	10	647000	3705	DFT-s-OFDM 64 QAM	25@12	23.33	22.31	0.1702
77	15	10	647000	3705	DFT-s-OFDM 64 QAM	1@1	23.08	22.06	0.1607
77	15	10	647000	3705	DFT-s-OFDM 64 QAM	1@50	23.05	22.03	0.1596
77	15	10	647000	3705	DFT-s-OFDM 256 QAM	25@12	21.18	20.16	0.1038
77	15	10	647000	3705	DFT-s-OFDM 256 QAM	1@1	21.14	20.12	0.1028
77	15	10	647000	3705	DFT-s-OFDM 256 QAM	1@50	21.12	20.1	0.1023
77	15	10	647000	3705	CP-OFDM QPSK	26@13	24.25	23.23	0.2104
77	15	10	647000	3705	CP-OFDM QPSK	1@1	24.08	23.06	0.2023
77	15	10	647000	3705	CP-OFDM QPSK	1@50	24.09	23.07	0.2028
77	15	10	656000	3840	DFT-s-OFDM PI/2 BPSK	25@12	25.79	24.77	0.2999
77	15	10	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	25.64	24.62	0.2897
77	15	10	656000	3840	DFT-s-OFDM PI/2 BPSK	1@50	25.7	24.68	0.2938
77	15	10	656000	3840	DFT-s-OFDM QPSK	25@12	25.8	24.78	0.3006
77	15	10	656000	3840	DFT-s-OFDM QPSK	1@1	25.74	24.72	0.2965
77	15	10	656000	3840	DFT-s-OFDM QPSK	1@50	25.72	24.7	0.2951
77	15	10	656000	3840	DFT-s-OFDM 16 QAM	25@12	24.81	23.79	0.2393
77	15	10	656000	3840	DFT-s-OFDM 16 QAM	1@1	24.5	23.48	0.2228
77	15	10	656000	3840	DFT-s-OFDM 16 QAM	1@50	24.45	23.43	0.2203
77	15	10	656000	3840	DFT-s-OFDM 64 QAM	25@12	23.31	22.29	0.1694
77	15	10	656000	3840	DFT-s-OFDM	1@1	22.98	21.96	0.1570

					64 QAM				
77	15	10	656000	3840	DFT-s-OFDM 64 QAM	1@50	23.05	22.03	0.1596
77	15	10	656000	3840	DFT-s-OFDM 256 QAM	25@12	21.25	20.23	0.1054
77	15	10	656000	3840	DFT-s-OFDM 256 QAM	1@1	21.22	20.2	0.1047
77	15	10	656000	3840	DFT-s-OFDM 256 QAM	1@50	21.19	20.17	0.1040
77	15	10	656000	3840	CP-OFDM QPSK	26@13	24.32	23.3	0.2138
77	15	10	656000	3840	CP-OFDM QPSK	1@1	24.12	23.1	0.2042
77	15	10	656000	3840	CP-OFDM QPSK	1@50	24.12	23.1	0.2042
77	15	10	665000	3975	DFT-s-OFDM PI/2 BPSK	25@12	25.58	24.56	0.2858
77	15	10	665000	3975	DFT-s-OFDM PI/2 BPSK	1@1	25.53	24.51	0.2825
77	15	10	665000	3975	DFT-s-OFDM PI/2 BPSK	1@50	25.44	24.42	0.2767
77	15	10	665000	3975	DFT-s-OFDM QPSK	25@12	25.64	24.62	0.2897
77	15	10	665000	3975	DFT-s-OFDM QPSK	1@1	25.55	24.53	0.2838
77	15	10	665000	3975	DFT-s-OFDM QPSK	1@50	25.51	24.49	0.2812
77	15	10	665000	3975	DFT-s-OFDM 16 QAM	25@12	24.63	23.61	0.2296
77	15	10	665000	3975	DFT-s-OFDM 16 QAM	1@1	24.3	23.28	0.2128
77	15	10	665000	3975	DFT-s-OFDM 16 QAM	1@50	24.31	23.29	0.2133
77	15	10	665000	3975	DFT-s-OFDM 64 QAM	25@12	23.18	22.16	0.1644
77	15	10	665000	3975	DFT-s-OFDM 64 QAM	1@1	22.84	21.82	0.1521
77	15	10	665000	3975	DFT-s-OFDM 64 QAM	1@50	22.76	21.74	0.1493
77	15	10	665000	3975	DFT-s-OFDM 256 QAM	25@12	21.12	20.1	0.1023
77	15	10	665000	3975	DFT-s-OFDM 256 QAM	1@1	21.11	20.09	0.1021
77	15	10	665000	3975	DFT-s-OFDM 256 QAM	1@50	21.08	20.06	0.1014
77	15	10	665000	3975	CP-OFDM QPSK	26@13	24.15	23.13	0.2056
77	15	10	665000	3975	CP-OFDM QPSK	1@1	23.93	22.91	0.1954
77	15	10	665000	3975	CP-OFDM QPSK	1@50	23.88	22.86	0.1932
77	15	15	647167	3707.505	DFT-s-OFDM PI/2 BPSK	36@18	25.72	24.7	0.2951
77	15	15	647167	3707.505	DFT-s-OFDM PI/2 BPSK	1@1	25.63	24.61	0.2891
77	15	15	647167	3707.505	DFT-s-OFDM PI/2 BPSK	1@77	25.61	24.59	0.2877
77	15	15	647167	3707.505	DFT-s-OFDM QPSK	36@18	25.75	24.73	0.2972
77	15	15	647167	3707.505	DFT-s-OFDM QPSK	1@1	25.66	24.64	0.2911
77	15	15	647167	3707.505	DFT-s-OFDM QPSK	1@77	25.7	24.68	0.2938
77	15	15	647167	3707.505	DFT-s-OFDM 16 QAM	36@18	24.77	23.75	0.2371
77	15	15	647167	3707.505	DFT-s-OFDM 16 QAM	1@1	24.43	23.41	0.2193

77	15	15	647167	3707.505	DFT-s-OFDM 16 QAM	1@77	24.49	23.47	0.2223
77	15	15	647167	3707.505	DFT-s-OFDM 64 QAM	36@18	23.27	22.25	0.1679
77	15	15	647167	3707.505	DFT-s-OFDM 64 QAM	1@1	22.93	21.91	0.1552
77	15	15	647167	3707.505	DFT-s-OFDM 64 QAM	1@77	22.93	21.91	0.1552
77	15	15	647167	3707.505	DFT-s-OFDM 256 QAM	36@18	21.25	20.23	0.1054
77	15	15	647167	3707.505	DFT-s-OFDM 256 QAM	1@1	21.22	20.2	0.1047
77	15	15	647167	3707.505	DFT-s-OFDM 256 QAM	1@77	21.18	20.16	0.1038
77	15	15	647167	3707.505	CP-OFDM QPSK	39@19	24.22	23.2	0.2089
77	15	15	647167	3707.505	CP-OFDM QPSK	1@1	24.07	23.05	0.2018
77	15	15	647167	3707.505	CP-OFDM QPSK	1@77	24.08	23.06	0.2023
77	15	15	656000	3840	DFT-s-OFDM PI/2 BPSK	36@18	25.78	24.76	0.2992
77	15	15	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	25.67	24.65	0.2917
77	15	15	656000	3840	DFT-s-OFDM PI/2 BPSK	1@77	25.67	24.65	0.2917
77	15	15	656000	3840	DFT-s-OFDM QPSK	36@18	25.81	24.79	0.3013
77	15	15	656000	3840	DFT-s-OFDM QPSK	1@1	25.76	24.74	0.2979
77	15	15	656000	3840	DFT-s-OFDM QPSK	1@77	25.76	24.74	0.2979
77	15	15	656000	3840	DFT-s-OFDM 16 QAM	36@18	24.84	23.82	0.2410
77	15	15	656000	3840	DFT-s-OFDM 16 QAM	1@1	24.51	23.49	0.2234
77	15	15	656000	3840	DFT-s-OFDM 16 QAM	1@77	24.51	23.49	0.2234
77	15	15	656000	3840	DFT-s-OFDM 64 QAM	36@18	23.34	22.32	0.1706
77	15	15	656000	3840	DFT-s-OFDM 64 QAM	1@1	23	21.98	0.1578
77	15	15	656000	3840	DFT-s-OFDM 64 QAM	1@77	22.93	21.91	0.1552
77	15	15	656000	3840	DFT-s-OFDM 256 QAM	36@18	21.34	20.32	0.1076
77	15	15	656000	3840	DFT-s-OFDM 256 QAM	1@1	21.25	20.23	0.1054
77	15	15	656000	3840	DFT-s-OFDM 256 QAM	1@77	21.21	20.19	0.1045
77	15	15	656000	3840	CP-OFDM QPSK	39@19	24.27	23.25	0.2113
77	15	15	656000	3840	CP-OFDM QPSK	1@1	24.17	23.15	0.2065
77	15	15	656000	3840	CP-OFDM QPSK	1@77	24.18	23.16	0.2070
77	15	15	664833	3972.495	DFT-s-OFDM PI/2 BPSK	36@18	25.55	24.53	0.2838
77	15	15	664833	3972.495	DFT-s-OFDM PI/2 BPSK	1@1	25.4	24.38	0.2742
77	15	15	664833	3972.495	DFT-s-OFDM PI/2 BPSK	1@77	25.47	24.45	0.2786
77	15	15	664833	3972.495	DFT-s-OFDM QPSK	36@18	25.56	24.54	0.2844
77	15	15	664833	3972.495	DFT-s-OFDM QPSK	1@1	25.52	24.5	0.2818
77	15	15	664833	3972.495	DFT-s-OFDM QPSK	1@77	25.53	24.51	0.2825

77	15	15	664833	3972.495	DFT-s-OFDM 16 QAM	36@18	24.61	23.59	0.2286
77	15	15	664833	3972.495	DFT-s-OFDM 16 QAM	1@1	24.12	23.1	0.2042
77	15	15	664833	3972.495	DFT-s-OFDM 16 QAM	1@77	24.1	23.08	0.2032
77	15	15	664833	3972.495	DFT-s-OFDM 64 QAM	36@18	23.07	22.05	0.1603
77	15	15	664833	3972.495	DFT-s-OFDM 64 QAM	1@1	22.62	21.6	0.1445
77	15	15	664833	3972.495	DFT-s-OFDM 64 QAM	1@77	22.58	21.56	0.1432
77	15	15	664833	3972.495	DFT-s-OFDM 256 QAM	36@18	21.09	20.07	0.1016
77	15	15	664833	3972.495	DFT-s-OFDM 256 QAM	1@1	21.06	20.04	0.1009
77	15	15	664833	3972.495	DFT-s-OFDM 256 QAM	1@77	20.95	19.93	0.0984
77	15	15	664833	3972.495	CP-OFDM QPSK	39@19	24.06	23.04	0.2014
77	15	15	664833	3972.495	CP-OFDM QPSK	1@1	23.95	22.93	0.1963
77	15	15	664833	3972.495	CP-OFDM QPSK	1@77	23.93	22.91	0.1954
77	15	20	647334	3710.01	DFT-s-OFDM PI/2 BPSK	50@25	25.72	24.7	0.2951
77	15	20	647334	3710.01	DFT-s-OFDM PI/2 BPSK	1@1	25.62	24.6	0.2884
77	15	20	647334	3710.01	DFT-s-OFDM PI/2 BPSK	1@104	25.64	24.62	0.2897
77	15	20	647334	3710.01	DFT-s-OFDM QPSK	50@25	25.71	24.69	0.2944
77	15	20	647334	3710.01	DFT-s-OFDM QPSK	1@1	25.68	24.66	0.2924
77	15	20	647334	3710.01	DFT-s-OFDM QPSK	1@104	25.72	24.7	0.2951
77	15	20	647334	3710.01	DFT-s-OFDM 16 QAM	50@25	24.78	23.76	0.2377
77	15	20	647334	3710.01	DFT-s-OFDM 16 QAM	1@1	24.37	23.35	0.2163
77	15	20	647334	3710.01	DFT-s-OFDM 16 QAM	1@104	24.3	23.28	0.2128
77	15	20	647334	3710.01	DFT-s-OFDM 64 QAM	50@25	23.26	22.24	0.1675
77	15	20	647334	3710.01	DFT-s-OFDM 64 QAM	1@1	22.82	21.8	0.1514
77	15	20	647334	3710.01	DFT-s-OFDM 64 QAM	1@104	22.78	21.76	0.1500
77	15	20	647334	3710.01	DFT-s-OFDM 256 QAM	50@25	21.19	20.17	0.1040
77	15	20	647334	3710.01	DFT-s-OFDM 256 QAM	1@1	21.22	20.2	0.1047
77	15	20	647334	3710.01	DFT-s-OFDM 256 QAM	1@104	21.15	20.13	0.1030
77	15	20	647334	3710.01	CP-OFDM QPSK	53@26	24.21	23.19	0.2084
77	15	20	647334	3710.01	CP-OFDM QPSK	1@1	24.1	23.08	0.2032
77	15	20	647334	3710.01	CP-OFDM QPSK	1@104	24.09	23.07	0.2028
77	15	20	656000	3840	DFT-s-OFDM PI/2 BPSK	50@25	25.75	24.73	0.2972
77	15	20	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	25.7	24.68	0.2938
77	15	20	656000	3840	DFT-s-OFDM PI/2 BPSK	1@104	25.71	24.69	0.2944
77	15	20	656000	3840	DFT-s-OFDM QPSK	50@25	25.78	24.76	0.2992

77	15	20	656000	3840	DFT-s-OFDM QPSK	1@1	25.74	24.72	0.2965
77	15	20	656000	3840	DFT-s-OFDM QPSK	1@104	25.77	24.75	0.2985
77	15	20	656000	3840	DFT-s-OFDM 16 QAM	50@25	24.8	23.78	0.2388
77	15	20	656000	3840	DFT-s-OFDM 16 QAM	1@1	24.44	23.42	0.2198
77	15	20	656000	3840	DFT-s-OFDM 16 QAM	1@104	24.45	23.43	0.2203
77	15	20	656000	3840	DFT-s-OFDM 64 QAM	50@25	23.31	22.29	0.1694
77	15	20	656000	3840	DFT-s-OFDM 64 QAM	1@1	22.91	21.89	0.1545
77	15	20	656000	3840	DFT-s-OFDM 64 QAM	1@104	22.93	21.91	0.1552
77	15	20	656000	3840	DFT-s-OFDM 256 QAM	50@25	21.24	20.22	0.1052
77	15	20	656000	3840	DFT-s-OFDM 256 QAM	1@1	21.28	20.26	0.1062
77	15	20	656000	3840	DFT-s-OFDM 256 QAM	1@104	21.22	20.2	0.1047
77	15	20	656000	3840	CP-OFDM QPSK	53@26	24.26	23.24	0.2109
77	15	20	656000	3840	CP-OFDM QPSK	1@1	24.13	23.11	0.2046
77	15	20	656000	3840	CP-OFDM QPSK	1@104	24.12	23.1	0.2042
77	15	20	664666	3969.99	DFT-s-OFDM PI/2 BPSK	50@25	25.55	24.53	0.2838
77	15	20	664666	3969.99	DFT-s-OFDM PI/2 BPSK	1@1	25.43	24.41	0.2761
77	15	20	664666	3969.99	DFT-s-OFDM PI/2 BPSK	1@104	25.48	24.46	0.2793
77	15	20	664666	3969.99	DFT-s-OFDM QPSK	50@25	25.57	24.55	0.2851
77	15	20	664666	3969.99	DFT-s-OFDM QPSK	1@1	25.57	24.55	0.2851
77	15	20	664666	3969.99	DFT-s-OFDM QPSK	1@104	25.52	24.5	0.2818
77	15	20	664666	3969.99	DFT-s-OFDM 16 QAM	50@25	24.63	23.61	0.2296
77	15	20	664666	3969.99	DFT-s-OFDM 16 QAM	1@1	24.19	23.17	0.2075
77	15	20	664666	3969.99	DFT-s-OFDM 16 QAM	1@104	24.14	23.12	0.2051
77	15	20	664666	3969.99	DFT-s-OFDM 64 QAM	50@25	23.1	22.08	0.1614
77	15	20	664666	3969.99	DFT-s-OFDM 64 QAM	1@1	22.65	21.63	0.1455
77	15	20	664666	3969.99	DFT-s-OFDM 64 QAM	1@104	22.63	21.61	0.1449
77	15	20	664666	3969.99	DFT-s-OFDM 256 QAM	50@25	21.09	20.07	0.1016
77	15	20	664666	3969.99	DFT-s-OFDM 256 QAM	1@1	21.03	20.01	0.1002
77	15	20	664666	3969.99	DFT-s-OFDM 256 QAM	1@104	20.99	19.97	0.0993
77	15	20	664666	3969.99	CP-OFDM QPSK	53@26	24.06	23.04	0.2014
77	15	20	664666	3969.99	CP-OFDM QPSK	1@1	23.95	22.93	0.1963
77	15	20	664666	3969.99	CP-OFDM QPSK	1@104	23.93	22.91	0.1954
77	15	25	647500	3712.5	DFT-s-OFDM PI/2 BPSK	64@32	25.13	24.11	0.2576
77	15	25	647500	3712.5	DFT-s-OFDM PI/2 BPSK	1@1	24.35	23.33	0.2153

77	15	25	647500	3712.5	DFT-s-OFDM PI/2 BPSK	1@131	24.3	23.28	0.2128
77	15	25	647500	3712.5	DFT-s-OFDM QPSK	64@32	25.14	24.12	0.2582
77	15	25	647500	3712.5	DFT-s-OFDM QPSK	1@1	24.39	23.37	0.2173
77	15	25	647500	3712.5	DFT-s-OFDM QPSK	1@131	24.42	23.4	0.2188
77	15	25	647500	3712.5	DFT-s-OFDM 16 QAM	64@32	24.1	23.08	0.2032
77	15	25	647500	3712.5	DFT-s-OFDM 16 QAM	1@1	23.37	22.35	0.1718
77	15	25	647500	3712.5	DFT-s-OFDM 16 QAM	1@131	23.31	22.29	0.1694
77	15	25	647500	3712.5	DFT-s-OFDM 64 QAM	64@32	22.57	21.55	0.1429
77	15	25	647500	3712.5	DFT-s-OFDM 64 QAM	1@1	21.7	20.68	0.1169
77	15	25	647500	3712.5	DFT-s-OFDM 64 QAM	1@131	21.7	20.68	0.1169
77	15	25	647500	3712.5	DFT-s-OFDM 256 QAM	64@32	20.65	19.63	0.0918
77	15	25	647500	3712.5	DFT-s-OFDM 256 QAM	1@1	19.96	18.94	0.0783
77	15	25	647500	3712.5	DFT-s-OFDM 256 QAM	1@131	19.89	18.87	0.0771
77	15	25	647500	3712.5	CP-OFDM QPSK	67@33	23.59	22.57	0.1807
77	15	25	647500	3712.5	CP-OFDM QPSK	1@1	22.87	21.85	0.1531
77	15	25	647500	3712.5	CP-OFDM QPSK	1@131	22.87	21.85	0.1531
77	15	25	656000	3840	DFT-s-OFDM PI/2 BPSK	64@32	25.19	24.17	0.2612
77	15	25	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	24.44	23.42	0.2198
77	15	25	656000	3840	DFT-s-OFDM PI/2 BPSK	1@131	24.4	23.38	0.2178
77	15	25	656000	3840	DFT-s-OFDM QPSK	64@32	25.22	24.2	0.2630
77	15	25	656000	3840	DFT-s-OFDM QPSK	1@1	24.52	23.5	0.2239
77	15	25	656000	3840	DFT-s-OFDM QPSK	1@131	24.44	23.42	0.2198
77	15	25	656000	3840	DFT-s-OFDM 16 QAM	64@32	24.17	23.15	0.2065
77	15	25	656000	3840	DFT-s-OFDM 16 QAM	1@1	23.45	22.43	0.1750
77	15	25	656000	3840	DFT-s-OFDM 16 QAM	1@131	23.37	22.35	0.1718
77	15	25	656000	3840	DFT-s-OFDM 64 QAM	64@32	22.69	21.67	0.1469
77	15	25	656000	3840	DFT-s-OFDM 64 QAM	1@1	21.85	20.83	0.1211
77	15	25	656000	3840	DFT-s-OFDM 64 QAM	1@131	21.8	20.78	0.1197
77	15	25	656000	3840	DFT-s-OFDM 256 QAM	64@32	20.72	19.7	0.0933
77	15	25	656000	3840	DFT-s-OFDM 256 QAM	1@1	20.06	19.04	0.0802
77	15	25	656000	3840	DFT-s-OFDM 256 QAM	1@131	20.03	19.01	0.0796
77	15	25	656000	3840	CP-OFDM QPSK	67@33	23.68	22.66	0.1845
77	15	25	656000	3840	CP-OFDM QPSK	1@1	22.97	21.95	0.1567
77	15	25	656000	3840	CP-OFDM QPSK	1@131	22.97	21.95	0.1567

77	15	25	664500	3967.5	DFT-s-OFDM PI/2 BPSK	64@32	24.74	23.72	0.2355
77	15	25	664500	3967.5	DFT-s-OFDM PI/2 BPSK	1@1	24	22.98	0.1986
77	15	25	664500	3967.5	DFT-s-OFDM PI/2 BPSK	1@131	23.96	22.94	0.1968
77	15	25	664500	3967.5	DFT-s-OFDM QPSK	64@32	24.77	23.75	0.2371
77	15	25	664500	3967.5	DFT-s-OFDM QPSK	1@1	24.11	23.09	0.2037
77	15	25	664500	3967.5	DFT-s-OFDM QPSK	1@131	24.03	23.01	0.2000
77	15	25	664500	3967.5	DFT-s-OFDM 16 QAM	64@32	23.77	22.75	0.1884
77	15	25	664500	3967.5	DFT-s-OFDM 16 QAM	1@1	23	21.98	0.1578
77	15	25	664500	3967.5	DFT-s-OFDM 16 QAM	1@131	22.88	21.86	0.1535
77	15	25	664500	3967.5	DFT-s-OFDM 64 QAM	64@32	22.22	21.2	0.1318
77	15	25	664500	3967.5	DFT-s-OFDM 64 QAM	1@1	21.32	20.3	0.1072
77	15	25	664500	3967.5	DFT-s-OFDM 64 QAM	1@131	21.25	20.23	0.1054
77	15	25	664500	3967.5	DFT-s-OFDM 256 QAM	64@32	20.24	19.22	0.0836
77	15	25	664500	3967.5	DFT-s-OFDM 256 QAM	1@1	19.64	18.62	0.0728
77	15	25	664500	3967.5	DFT-s-OFDM 256 QAM	1@131	19.48	18.46	0.0701
77	15	25	664500	3967.5	CP-OFDM QPSK	67@33	23.23	22.21	0.1663
77	15	25	664500	3967.5	CP-OFDM QPSK	1@1	22.57	21.55	0.1429
77	15	25	664500	3967.5	CP-OFDM QPSK	1@131	22.53	21.51	0.1416
77	15	30	647667	3715.005	DFT-s-OFDM PI/2 BPSK	80@40	25.23	24.21	0.2636
77	15	30	647667	3715.005	DFT-s-OFDM PI/2 BPSK	1@1	25.1	24.08	0.2559
77	15	30	647667	3715.005	DFT-s-OFDM PI/2 BPSK	1@158	25.11	24.09	0.2564
77	15	30	647667	3715.005	DFT-s-OFDM QPSK	80@40	25.27	24.25	0.2661
77	15	30	647667	3715.005	DFT-s-OFDM QPSK	1@1	25.16	24.14	0.2594
77	15	30	647667	3715.005	DFT-s-OFDM QPSK	1@158	25.2	24.18	0.2618
77	15	30	647667	3715.005	DFT-s-OFDM 16 QAM	80@40	24.25	23.23	0.2104
77	15	30	647667	3715.005	DFT-s-OFDM 16 QAM	1@1	24	22.98	0.1986
77	15	30	647667	3715.005	DFT-s-OFDM 16 QAM	1@158	23.94	22.92	0.1959
77	15	30	647667	3715.005	DFT-s-OFDM 64 QAM	80@40	22.79	21.77	0.1503
77	15	30	647667	3715.005	DFT-s-OFDM 64 QAM	1@1	22.58	21.56	0.1432
77	15	30	647667	3715.005	DFT-s-OFDM 64 QAM	1@158	22.61	21.59	0.1442
77	15	30	647667	3715.005	DFT-s-OFDM 256 QAM	80@40	20.74	19.72	0.0938
77	15	30	647667	3715.005	DFT-s-OFDM 256 QAM	1@1	20.79	19.77	0.0948
77	15	30	647667	3715.005	DFT-s-OFDM 256 QAM	1@158	20.7	19.68	0.0929
77	15	30	647667	3715.005	CP-OFDM QPSK	80@40	23.69	22.67	0.1849

77	15	30	647667	3715.005	CP-OFDM QPSK	1@1	23.63	22.61	0.1824
77	15	30	647667	3715.005	CP-OFDM QPSK	1@158	23.71	22.69	0.1858
77	15	30	656000	3840	DFT-s-OFDM PI/2 BPSK	80@40	25.32	24.3	0.2692
77	15	30	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	25.13	24.11	0.2576
77	15	30	656000	3840	DFT-s-OFDM PI/2 BPSK	1@158	25.09	24.07	0.2553
77	15	30	656000	3840	DFT-s-OFDM QPSK	80@40	25.3	24.28	0.2679
77	15	30	656000	3840	DFT-s-OFDM QPSK	1@1	25.24	24.22	0.2642
77	15	30	656000	3840	DFT-s-OFDM QPSK	1@158	25.18	24.16	0.2606
77	15	30	656000	3840	DFT-s-OFDM 16 QAM	80@40	24.36	23.34	0.2158
77	15	30	656000	3840	DFT-s-OFDM 16 QAM	1@1	23.97	22.95	0.1972
77	15	30	656000	3840	DFT-s-OFDM 16 QAM	1@158	23.98	22.96	0.1977
77	15	30	656000	3840	DFT-s-OFDM 64 QAM	80@40	22.84	21.82	0.1521
77	15	30	656000	3840	DFT-s-OFDM 64 QAM	1@1	22.59	21.57	0.1435
77	15	30	656000	3840	DFT-s-OFDM 64 QAM	1@158	22.58	21.56	0.1432
77	15	30	656000	3840	DFT-s-OFDM 256 QAM	80@40	20.78	19.76	0.0946
77	15	30	656000	3840	DFT-s-OFDM 256 QAM	1@1	20.79	19.77	0.0948
77	15	30	656000	3840	DFT-s-OFDM 256 QAM	1@158	20.74	19.72	0.0938
77	15	30	656000	3840	CP-OFDM QPSK	80@40	23.82	22.8	0.1905
77	15	30	656000	3840	CP-OFDM QPSK	1@1	23.69	22.67	0.1849
77	15	30	656000	3840	CP-OFDM QPSK	1@158	23.72	22.7	0.1862
77	15	30	664332	3964.98	DFT-s-OFDM PI/2 BPSK	80@40	24.8	23.78	0.2388
77	15	30	664332	3964.98	DFT-s-OFDM PI/2 BPSK	1@1	24.72	23.7	0.2344
77	15	30	664332	3964.98	DFT-s-OFDM PI/2 BPSK	1@158	24.64	23.62	0.2301
77	15	30	664332	3964.98	DFT-s-OFDM QPSK	80@40	24.78	23.76	0.2377
77	15	30	664332	3964.98	DFT-s-OFDM QPSK	1@1	24.78	23.76	0.2377
77	15	30	664332	3964.98	DFT-s-OFDM QPSK	1@158	24.66	23.64	0.2312
77	15	30	664332	3964.98	DFT-s-OFDM 16 QAM	80@40	23.84	22.82	0.1914
77	15	30	664332	3964.98	DFT-s-OFDM 16 QAM	1@1	23.57	22.55	0.1799
77	15	30	664332	3964.98	DFT-s-OFDM 16 QAM	1@158	23.43	22.41	0.1742
77	15	30	664332	3964.98	DFT-s-OFDM 64 QAM	80@40	22.29	21.27	0.1340
77	15	30	664332	3964.98	DFT-s-OFDM 64 QAM	1@1	22.25	21.23	0.1327
77	15	30	664332	3964.98	DFT-s-OFDM 64 QAM	1@158	22.11	21.09	0.1285
77	15	30	664332	3964.98	DFT-s-OFDM 256 QAM	80@40	20.31	19.29	0.0849
77	15	30	664332	3964.98	DFT-s-OFDM 256 QAM	1@1	20.37	19.35	0.0861

77	15	30	664332	3964.98	DFT-s-OFDM 256 QAM	1@158	20.21	19.19	0.0830
77	15	30	664332	3964.98	CP-OFDM QPSK	80@40	23.31	22.29	0.1694
77	15	30	664332	3964.98	CP-OFDM QPSK	1@1	23.29	22.27	0.1687
77	15	30	664332	3964.98	CP-OFDM QPSK	1@158	23.23	22.21	0.1663
77	15	40	648000	3720	DFT-s-OFDM PI/2 BPSK	108@54	25.55	24.53	0.2838
77	15	40	648000	3720	DFT-s-OFDM PI/2 BPSK	1@1	25.5	24.48	0.2805
77	15	40	648000	3720	DFT-s-OFDM PI/2 BPSK	1@214	25.45	24.43	0.2773
77	15	40	648000	3720	DFT-s-OFDM QPSK	108@54	25.62	24.6	0.2884
77	15	40	648000	3720	DFT-s-OFDM QPSK	1@1	25.5	24.48	0.2805
77	15	40	648000	3720	DFT-s-OFDM QPSK	1@214	25.4	24.38	0.2742
77	15	40	648000	3720	DFT-s-OFDM 16 QAM	108@54	24.64	23.62	0.2301
77	15	40	648000	3720	DFT-s-OFDM 16 QAM	1@1	24.11	23.09	0.2037
77	15	40	648000	3720	DFT-s-OFDM 16 QAM	1@214	24.15	23.13	0.2056
77	15	40	648000	3720	DFT-s-OFDM 64 QAM	108@54	23.08	22.06	0.1607
77	15	40	648000	3720	DFT-s-OFDM 64 QAM	1@1	22.74	21.72	0.1486
77	15	40	648000	3720	DFT-s-OFDM 64 QAM	1@214	22.73	21.71	0.1483
77	15	40	648000	3720	DFT-s-OFDM 256 QAM	108@54	21.04	20.02	0.1005
77	15	40	648000	3720	DFT-s-OFDM 256 QAM	1@1	21.02	20	0.1000
77	15	40	648000	3720	DFT-s-OFDM 256 QAM	1@214	20.95	19.93	0.0984
77	15	40	648000	3720	CP-OFDM QPSK	108@54	24.03	23.01	0.2000
77	15	40	648000	3720	CP-OFDM QPSK	1@1	23.91	22.89	0.1945
77	15	40	648000	3720	CP-OFDM QPSK	1@214	23.82	22.8	0.1905
77	15	40	656000	3840	DFT-s-OFDM PI/2 BPSK	108@54	25.6	24.58	0.2871
77	15	40	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	25.53	24.51	0.2825
77	15	40	656000	3840	DFT-s-OFDM PI/2 BPSK	1@214	25.43	24.41	0.2761
77	15	40	656000	3840	DFT-s-OFDM QPSK	108@54	25.61	24.59	0.2877
77	15	40	656000	3840	DFT-s-OFDM QPSK	1@1	25.63	24.61	0.2891
77	15	40	656000	3840	DFT-s-OFDM QPSK	1@214	25.51	24.49	0.2812
77	15	40	656000	3840	DFT-s-OFDM 16 QAM	108@54	24.68	23.66	0.2323
77	15	40	656000	3840	DFT-s-OFDM 16 QAM	1@1	24.3	23.28	0.2128
77	15	40	656000	3840	DFT-s-OFDM 16 QAM	1@214	24.15	23.13	0.2056
77	15	40	656000	3840	DFT-s-OFDM 64 QAM	108@54	23.14	22.12	0.1629
77	15	40	656000	3840	DFT-s-OFDM 64 QAM	1@1	22.86	21.84	0.1528
77	15	40	656000	3840	DFT-s-OFDM 64 QAM	1@214	22.77	21.75	0.1496

77	15	40	656000	3840	DFT-s-OFDM 256 QAM	108@54	21.13	20.11	0.1026
77	15	40	656000	3840	DFT-s-OFDM 256 QAM	1@1	21.06	20.04	0.1009
77	15	40	656000	3840	DFT-s-OFDM 256 QAM	1@214	20.99	19.97	0.0993
77	15	40	656000	3840	CP-OFDM QPSK	108@54	24.08	23.06	0.2023
77	15	40	656000	3840	CP-OFDM QPSK	1@1	24.01	22.99	0.1991
77	15	40	656000	3840	CP-OFDM QPSK	1@214	23.87	22.85	0.1928
77	15	40	664000	3960	DFT-s-OFDM PI/2 BPSK	108@54	25.4	24.38	0.2742
77	15	40	664000	3960	DFT-s-OFDM PI/2 BPSK	1@1	25.25	24.23	0.2649
77	15	40	664000	3960	DFT-s-OFDM PI/2 BPSK	1@214	25.27	24.25	0.2661
77	15	40	664000	3960	DFT-s-OFDM QPSK	108@54	25.43	24.41	0.2761
77	15	40	664000	3960	DFT-s-OFDM QPSK	1@1	25.35	24.33	0.2710
77	15	40	664000	3960	DFT-s-OFDM QPSK	1@214	25.28	24.26	0.2667
77	15	40	664000	3960	DFT-s-OFDM 16 QAM	108@54	24.42	23.4	0.2188
77	15	40	664000	3960	DFT-s-OFDM 16 QAM	1@1	24.02	23	0.1995
77	15	40	664000	3960	DFT-s-OFDM 16 QAM	1@214	23.92	22.9	0.1950
77	15	40	664000	3960	DFT-s-OFDM 64 QAM	108@54	22.89	21.87	0.1538
77	15	40	664000	3960	DFT-s-OFDM 64 QAM	1@1	22.63	21.61	0.1449
77	15	40	664000	3960	DFT-s-OFDM 64 QAM	1@214	22.5	21.48	0.1406
77	15	40	664000	3960	DFT-s-OFDM 256 QAM	108@54	20.87	19.85	0.0966
77	15	40	664000	3960	DFT-s-OFDM 256 QAM	1@1	20.86	19.84	0.0964
77	15	40	664000	3960	DFT-s-OFDM 256 QAM	1@214	20.76	19.74	0.0942
77	15	40	664000	3960	CP-OFDM QPSK	108@54	23.86	22.84	0.1923
77	15	40	664000	3960	CP-OFDM QPSK	1@1	23.77	22.75	0.1884
77	15	40	664000	3960	CP-OFDM QPSK	1@214	23.65	22.63	0.1832
77	15	50	648334	3725.01	DFT-s-OFDM PI/2 BPSK	135@67	25.62	24.6	0.2884
77	15	50	648334	3725.01	DFT-s-OFDM PI/2 BPSK	1@1	25.48	24.46	0.2793
77	15	50	648334	3725.01	DFT-s-OFDM PI/2 BPSK	1@268	25.49	24.47	0.2799
77	15	50	648334	3725.01	DFT-s-OFDM QPSK	135@67	25.61	24.59	0.2877
77	15	50	648334	3725.01	DFT-s-OFDM QPSK	1@1	25.54	24.52	0.2831
77	15	50	648334	3725.01	DFT-s-OFDM QPSK	1@268	25.5	24.48	0.2805
77	15	50	648334	3725.01	DFT-s-OFDM 16 QAM	135@67	24.62	23.6	0.2291
77	15	50	648334	3725.01	DFT-s-OFDM 16 QAM	1@1	24.19	23.17	0.2075
77	15	50	648334	3725.01	DFT-s-OFDM 16 QAM	1@268	24.12	23.1	0.2042
77	15	50	648334	3725.01	DFT-s-OFDM 64 QAM	135@67	23.12	22.1	0.1622

77	15	50	648334	3725.01	DFT-s-OFDM 64 QAM	1@1	22.65	21.63	0.1455
77	15	50	648334	3725.01	DFT-s-OFDM 64 QAM	1@268	22.64	21.62	0.1452
77	15	50	648334	3725.01	DFT-s-OFDM 256 QAM	135@67	21.07	20.05	0.1012
77	15	50	648334	3725.01	DFT-s-OFDM 256 QAM	1@1	21.08	20.06	0.1014
77	15	50	648334	3725.01	DFT-s-OFDM 256 QAM	1@268	21.04	20.02	0.1005
77	15	50	648334	3725.01	CP-OFDM QPSK	135@67	24.12	23.1	0.2042
77	15	50	648334	3725.01	CP-OFDM QPSK	1@1	23.97	22.95	0.1972
77	15	50	648334	3725.01	CP-OFDM QPSK	1@268	23.97	22.95	0.1972
77	15	50	656000	3840	DFT-s-OFDM PI/2 BPSK	135@67	25.6	24.58	0.2871
77	15	50	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	25.51	24.49	0.2812
77	15	50	656000	3840	DFT-s-OFDM PI/2 BPSK	1@268	25.5	24.48	0.2805
77	15	50	656000	3840	DFT-s-OFDM QPSK	135@67	25.61	24.59	0.2877
77	15	50	656000	3840	DFT-s-OFDM QPSK	1@1	25.62	24.6	0.2884
77	15	50	656000	3840	DFT-s-OFDM QPSK	1@268	25.46	24.44	0.2780
77	15	50	656000	3840	DFT-s-OFDM 16 QAM	135@67	24.62	23.6	0.2291
77	15	50	656000	3840	DFT-s-OFDM 16 QAM	1@1	24.26	23.24	0.2109
77	15	50	656000	3840	DFT-s-OFDM 16 QAM	1@268	24.13	23.11	0.2046
77	15	50	656000	3840	DFT-s-OFDM 64 QAM	135@67	23.13	22.11	0.1626
77	15	50	656000	3840	DFT-s-OFDM 64 QAM	1@1	22.77	21.75	0.1496
77	15	50	656000	3840	DFT-s-OFDM 64 QAM	1@268	22.63	21.61	0.1449
77	15	50	656000	3840	DFT-s-OFDM 256 QAM	135@67	21.14	20.12	0.1028
77	15	50	656000	3840	DFT-s-OFDM 256 QAM	1@1	21.19	20.17	0.1040
77	15	50	656000	3840	DFT-s-OFDM 256 QAM	1@268	20.97	19.95	0.0989
77	15	50	656000	3840	CP-OFDM QPSK	135@67	24.08	23.06	0.2023
77	15	50	656000	3840	CP-OFDM QPSK	1@1	23.96	22.94	0.1968
77	15	50	656000	3840	CP-OFDM QPSK	1@268	23.93	22.91	0.1954
77	15	50	663666	3954.99	DFT-s-OFDM PI/2 BPSK	135@67	25.37	24.35	0.2723
77	15	50	663666	3954.99	DFT-s-OFDM PI/2 BPSK	1@1	25.17	24.15	0.2600
77	15	50	663666	3954.99	DFT-s-OFDM PI/2 BPSK	1@268	25.19	24.17	0.2612
77	15	50	663666	3954.99	DFT-s-OFDM QPSK	135@67	25.36	24.34	0.2716
77	15	50	663666	3954.99	DFT-s-OFDM QPSK	1@1	25.25	24.23	0.2649
77	15	50	663666	3954.99	DFT-s-OFDM QPSK	1@268	25.18	24.16	0.2606
77	15	50	663666	3954.99	DFT-s-OFDM 16 QAM	135@67	24.4	23.38	0.2178
77	15	50	663666	3954.99	DFT-s-OFDM 16 QAM	1@1	23.91	22.89	0.1945

77	15	50	663666	3954.99	DFT-s-OFDM 16 QAM	1@268	23.91	22.89	0.1945
77	15	50	663666	3954.99	DFT-s-OFDM 64 QAM	135@67	22.89	21.87	0.1538
77	15	50	663666	3954.99	DFT-s-OFDM 64 QAM	1@1	22.44	21.42	0.1387
77	15	50	663666	3954.99	DFT-s-OFDM 64 QAM	1@268	22.39	21.37	0.1371
77	15	50	663666	3954.99	DFT-s-OFDM 256 QAM	135@67	20.9	19.88	0.0973
77	15	50	663666	3954.99	DFT-s-OFDM 256 QAM	1@1	20.74	19.72	0.0938
77	15	50	663666	3954.99	DFT-s-OFDM 256 QAM	1@268	20.72	19.7	0.0933
77	15	50	663666	3954.99	CP-OFDM QPSK	135@67	23.87	22.85	0.1928
77	15	50	663666	3954.99	CP-OFDM QPSK	1@1	23.68	22.66	0.1845
77	15	50	663666	3954.99	CP-OFDM QPSK	1@268	23.68	22.66	0.1845

Frequency Stability

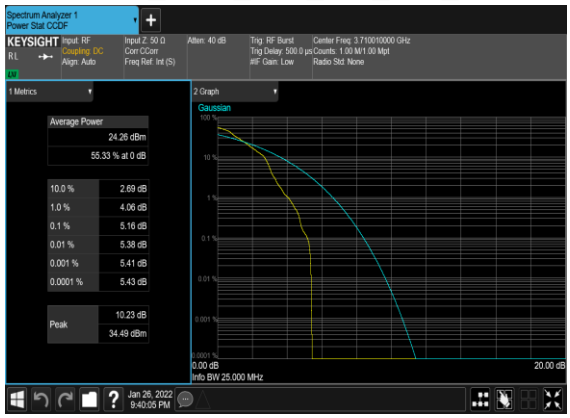
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
77	15	20	656000	3840.0	DFT-s-OFDM QPSK	100@0	0.0201	**PASS**	NV
77	15	20	656000	3840.0	DFT-s-OFDM QPSK	100@0	0.0121	**PASS**	LV
77	15	20	656000	3840.0	DFT-s-OFDM QPSK	100@0	0.0123	**PASS**	HV
77	15	20	656000	3840.0	DFT-s-OFDM QPSK	100@0	0.0519	**PASS**	-30℃
77	15	20	656000	3840.0	DFT-s-OFDM QPSK	100@0	0.0215	**PASS**	-20℃
77	15	20	656000	3840.0	DFT-s-OFDM QPSK	100@0	0.0236	**PASS**	-10℃
77	15	20	656000	3840.0	DFT-s-OFDM QPSK	100@0	0.0143	**PASS**	0℃
77	15	20	656000	3840.0	DFT-s-OFDM QPSK	100@0	0.0131	**PASS**	10℃
77	15	20	656000	3840.0	DFT-s-OFDM QPSK	100@0	0.0163	**PASS**	20℃
77	15	20	656000	3840.0	DFT-s-OFDM QPSK	100@0	0.0125	**PASS**	30℃
77	15	20	656000	3840.0	DFT-s-OFDM QPSK	100@0	0.0121	**PASS**	40℃
77	15	20	656000	3840.0	DFT-s-OFDM QPSK	100@0	0.0217	**PASS**	50℃

Peak to Average Radio

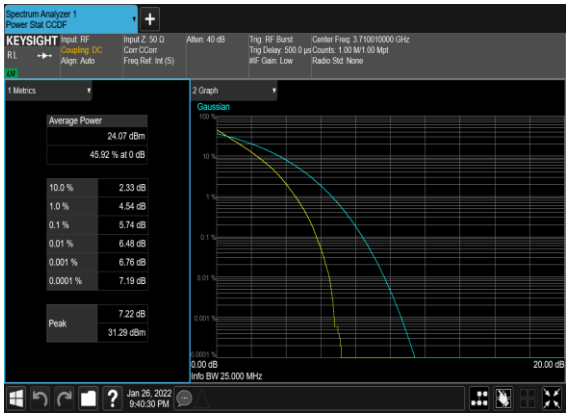
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
77	15	20	647334	3710.01	DFT-s-OFDM PI/2 BPSK	100@0	4.54	13	**PASS**
77	15	20	647334	3710.01	DFT-s-OFDM PI/2 BPSK	1@0	5.16	13	**PASS**
77	15	20	647334	3710.01	DFT-s-OFDM QPSK	100@0	5.74	13	**PASS**
77	15	20	647334	3710.01	DFT-s-OFDM QPSK	1@0	5.73	13	**PASS**
77	15	20	656000	3840.0	DFT-s-OFDM PI/2 BPSK	100@0	4.42	13	**PASS**
77	15	20	656000	3840.0	DFT-s-OFDM PI/2 BPSK	1@0	4.7	13	**PASS**
77	15	20	656000	3840.0	DFT-s-OFDM QPSK	100@0	5.65	13	**PASS**
77	15	20	656000	3840.0	DFT-s-OFDM QPSK	1@0	5.73	13	**PASS**
77	15	20	664666	3969.99	DFT-s-OFDM PI/2 BPSK	100@0	4.39	13	**PASS**
77	15	20	664666	3969.99	DFT-s-OFDM PI/2 BPSK	1@0	4.54	13	**PASS**
77	15	20	664666	3969.99	DFT-s-OFDM QPSK	100@0	5.62	13	**PASS**
77	15	20	664666	3969.99	DFT-s-OFDM QPSK	1@0	6.2	13	**PASS**

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

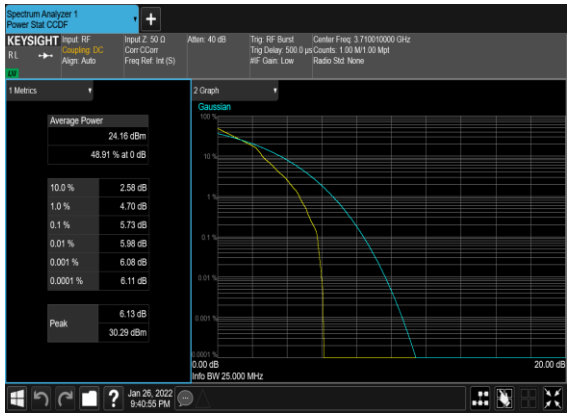
N77(20M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_Low_CH



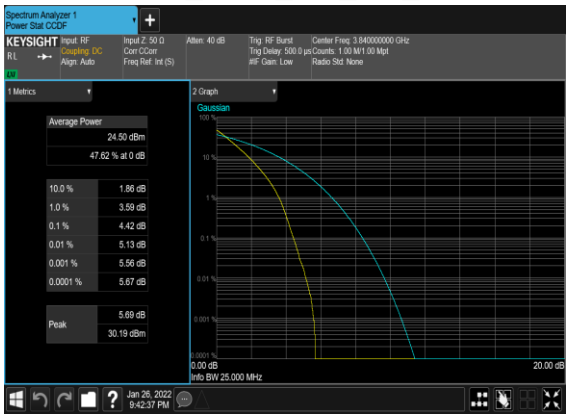
N77(20M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



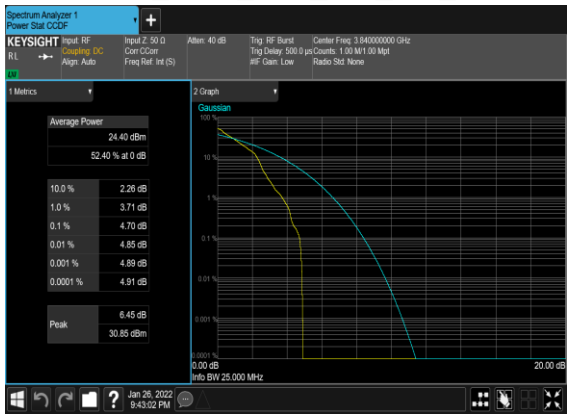
N77(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



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

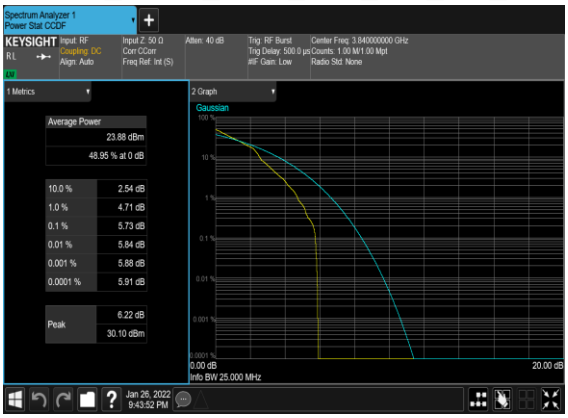


N77(20M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_Mid_CH

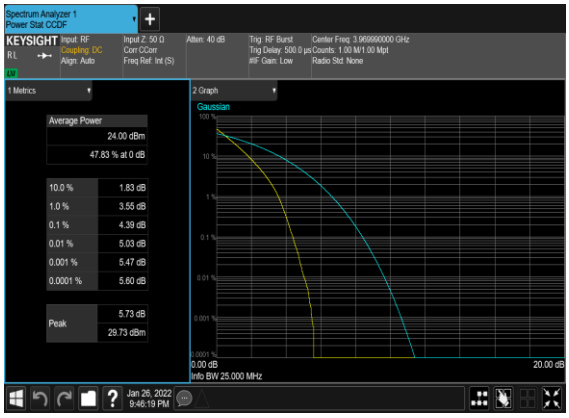


N77(20M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH

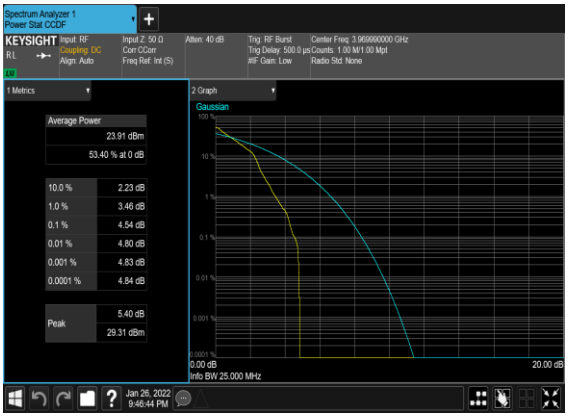
N77(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



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



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



N77(20M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH

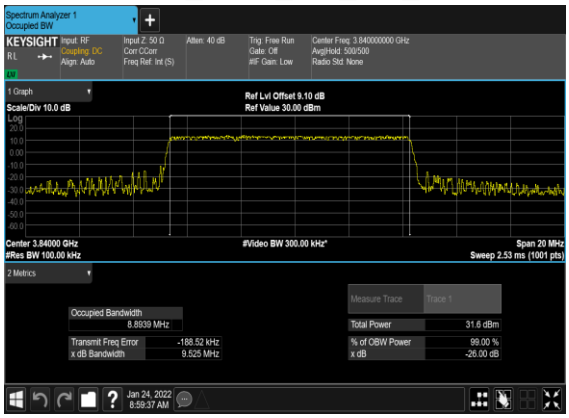
N77(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH

Occupied Bandwidth

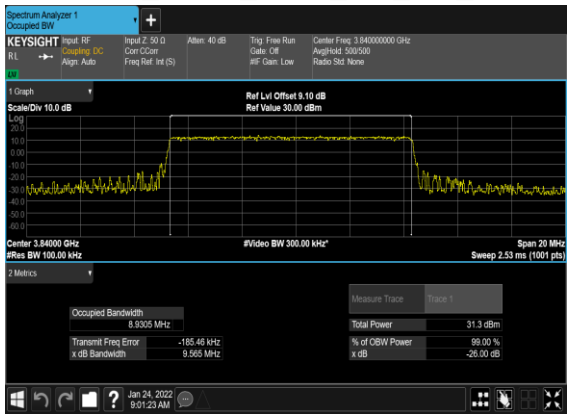
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB OBW (MHz)
77	15	10	656000	3840.0	DFT-s-OFDM PI/2 BPSK	50@0	8.8939	9.525
77	15	10	656000	3840.0	DFT-s-OFDM QPSK	50@0	8.9305	9.565
77	15	10	656000	3840.0	CP-OFDM QPSK	52@0	9.2815	9.715
77	15	10	656000	3840.0	CP-OFDM 16 QAM	52@0	9.2701	9.758
77	15	10	656000	3840.0	CP-OFDM 64 QAM	52@0	9.2942	9.741
77	15	10	656000	3840.0	CP-OFDM 256 QAM	52@0	9.2703	9.661
77	15	15	656000	3840.0	DFT-s-OFDM PI/2 BPSK	75@0	13.436	13.98
77	15	15	656000	3840.0	DFT-s-OFDM QPSK	75@0	13.374	14.01
77	15	15	656000	3840.0	CP-OFDM QPSK	79@0	14.085	15.29
77	15	15	656000	3840.0	CP-OFDM 16 QAM	79@0	14.068	14.7
77	15	15	656000	3840.0	CP-OFDM 64 QAM	79@0	14.085	14.64
77	15	15	656000	3840.0	CP-OFDM 256 QAM	79@0	14.132	22.06
77	15	20	656000	3840.0	DFT-s-OFDM PI/2 BPSK	100@0	17.847	18.6
77	15	20	656000	3840.0	DFT-s-OFDM QPSK	100@0	17.883	18.83
77	15	20	656000	3840.0	CP-OFDM QPSK	106@0	18.893	19.72
77	15	20	656000	3840.0	CP-OFDM 16 QAM	106@0	18.94	19.61
77	15	20	656000	3840.0	CP-OFDM 64 QAM	106@0	18.935	19.7
77	15	20	656000	3840.0	CP-OFDM 256 QAM	106@0	18.921	19.67
77	15	25	656000	3840.0	DFT-s-OFDM PI/2 BPSK	128@0	22.829	23.69
77	15	25	656000	3840.0	DFT-s-OFDM QPSK	128@0	22.829	23.73
77	15	25	656000	3840.0	CP-OFDM QPSK	133@0	23.704	24.54
77	15	25	656000	3840.0	CP-OFDM 16 QAM	133@0	23.742	24.56
77	15	25	656000	3840.0	CP-OFDM 64 QAM	133@0	23.671	24.56
77	15	25	656000	3840.0	CP-OFDM 256 QAM	133@0	23.658	24.58

77	15	30	650000	3750.0	DFT-s-OFDM PI/2 BPSK	160@0	28.55	29.54
77	15	30	650000	3750.0	DFT-s-OFDM QPSK	160@0	28.566	29.75
77	15	30	650000	3750.0	CP-OFDM QPSK	160@0	28.583	29.75
77	15	30	650000	3750.0	CP-OFDM 16 QAM	160@0	28.578	29.66
77	15	30	650000	3750.0	CP-OFDM 64 QAM	160@0	28.541	29.83
77	15	30	650000	3750.0	CP-OFDM 256 QAM	160@0	28.487	29.66
77	15	40	656000	3840.0	DFT-s-OFDM PI/2 BPSK	216@0	38.543	39.89
77	15	40	656000	3840.0	DFT-s-OFDM QPSK	216@0	38.56	39.86
77	15	40	656000	3840.0	CP-OFDM QPSK	216@0	38.488	40.03
77	15	40	656000	3840.0	CP-OFDM 16 QAM	216@0	38.547	40.05
77	15	40	656000	3840.0	CP-OFDM 64 QAM	216@0	38.535	39.89
77	15	40	656000	3840.0	CP-OFDM 256 QAM	216@0	38.509	39.81
77	15	50	656000	3840.0	DFT-s-OFDM PI/2 BPSK	270@0	48.114	50.04
77	15	50	656000	3840.0	DFT-s-OFDM QPSK	270@0	48.088	49.97
77	15	50	656000	3840.0	CP-OFDM QPSK	270@0	48.182	49.8
77	15	50	656000	3840.0	CP-OFDM 16 QAM	270@0	48.123	49.88
77	15	50	656000	3840.0	CP-OFDM 64 QAM	270@0	48.098	50.07
77	15	50	656000	3840.0	CP-OFDM 256 QAM	270@0	48.125	49.74

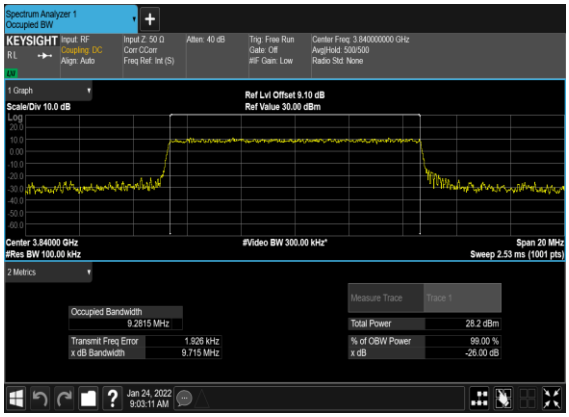
N77(10M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



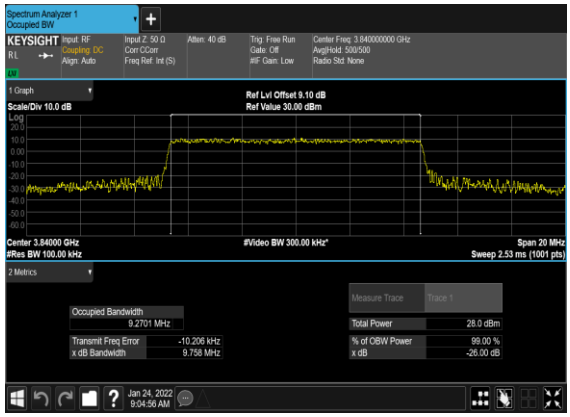
N77(10M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



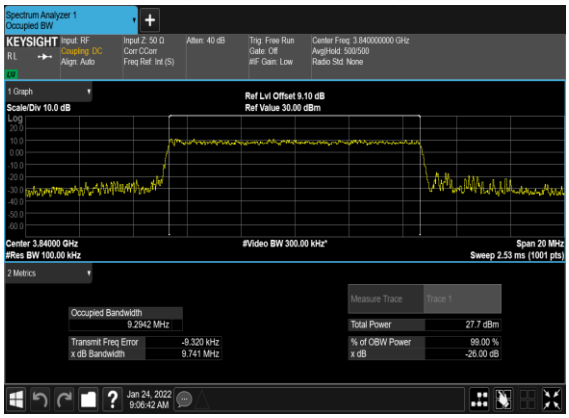
N77(10M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



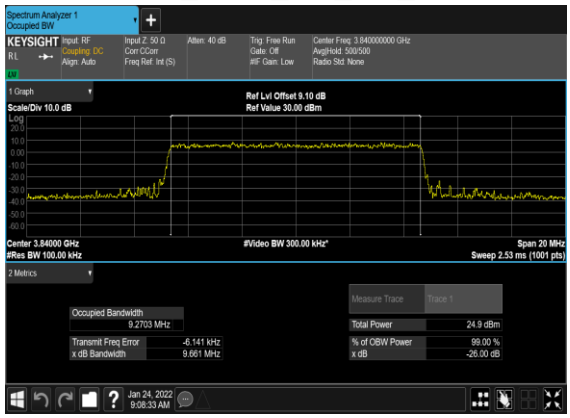
N77(10M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



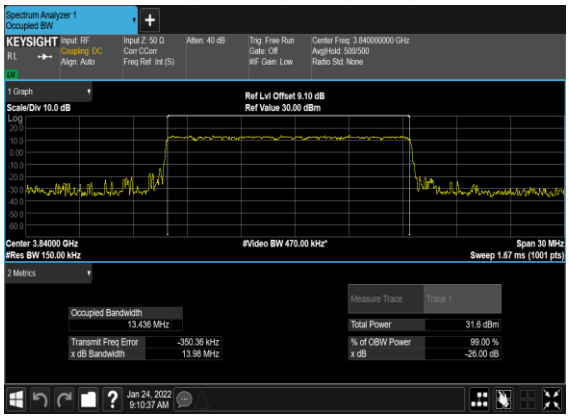
N77(10M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



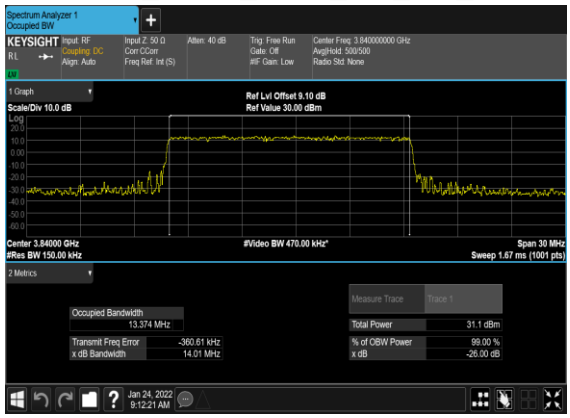
N77(10M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



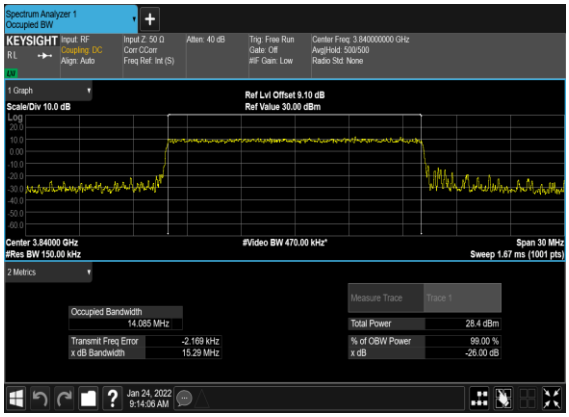
N77(15M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



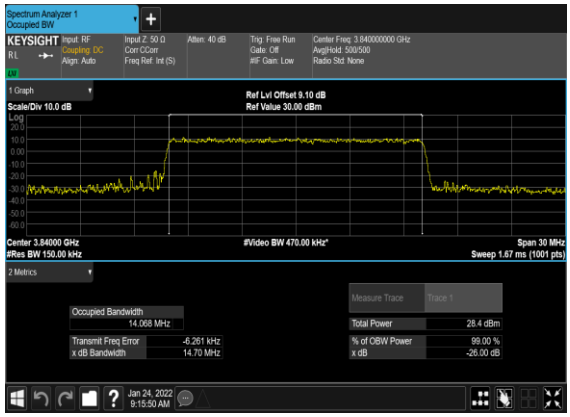
N77(15M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



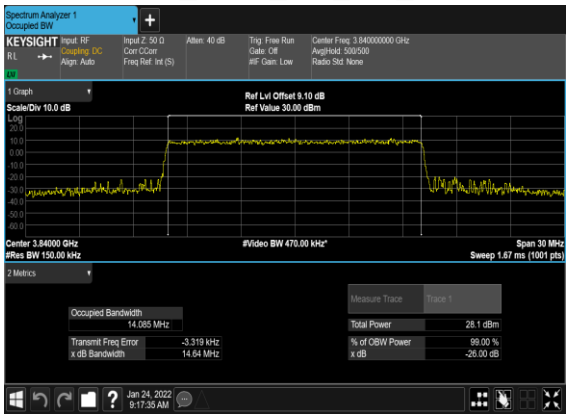
N77(15M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



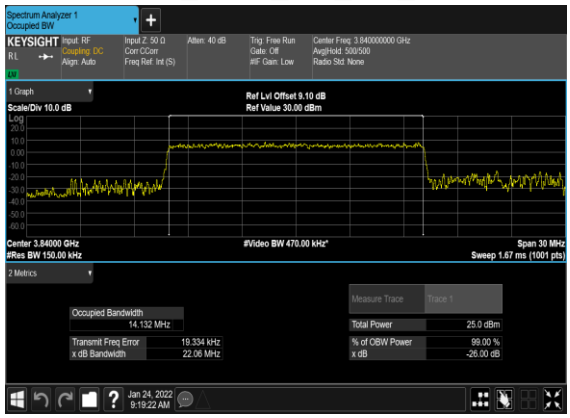
N77(15M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



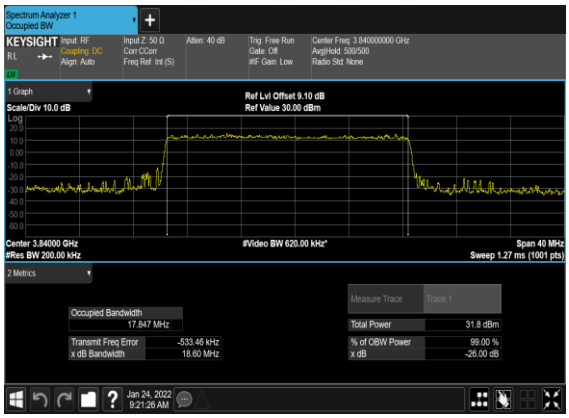
N77(15M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



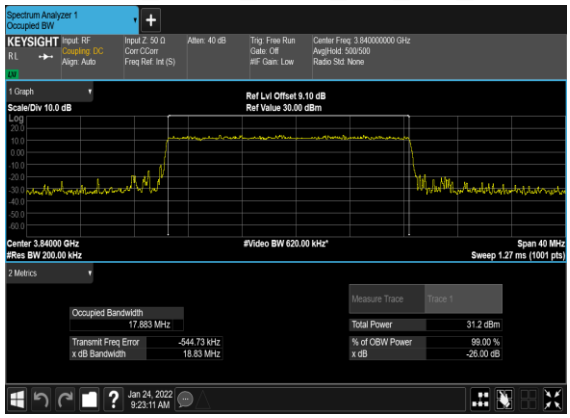
N77(15M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



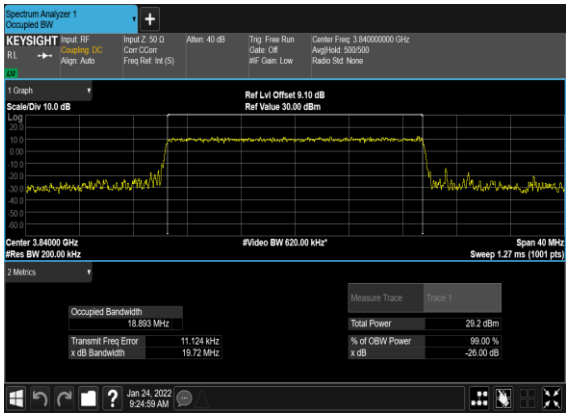
N77(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



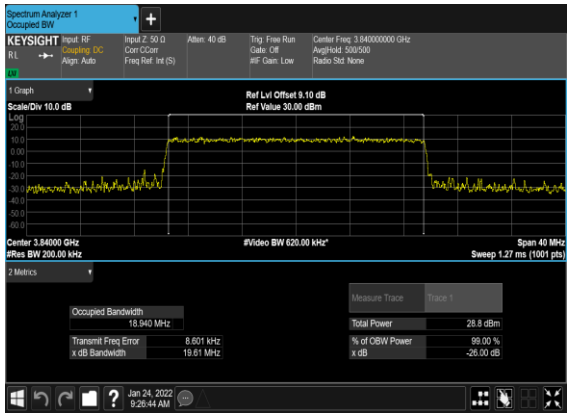
N77(20M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



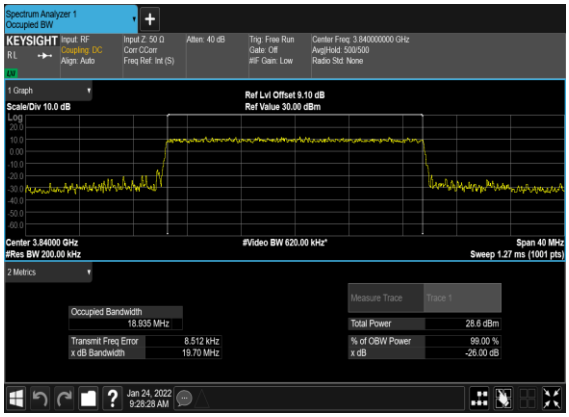
N77(20M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



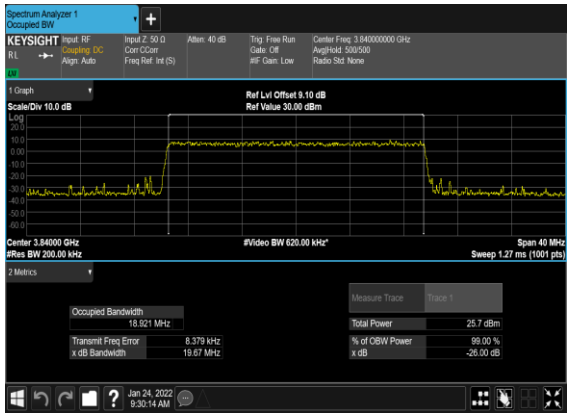
N77(20M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



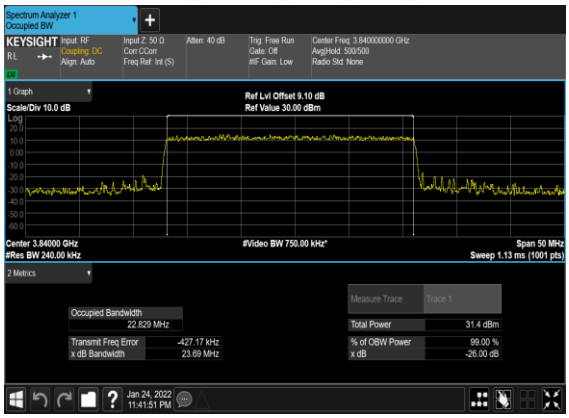
N77(20M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



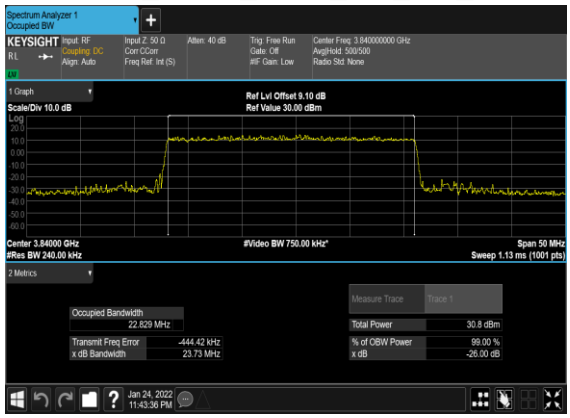
N77(20M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



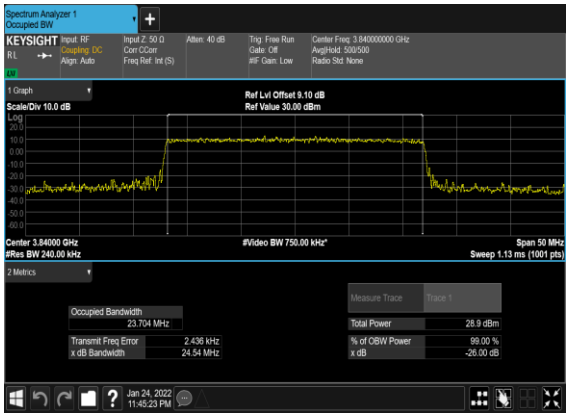
N77(25M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



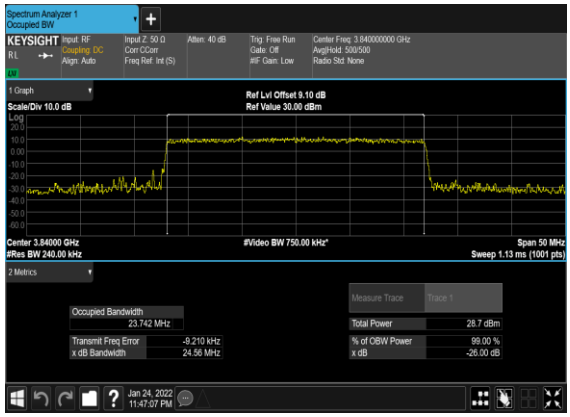
N77(25M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



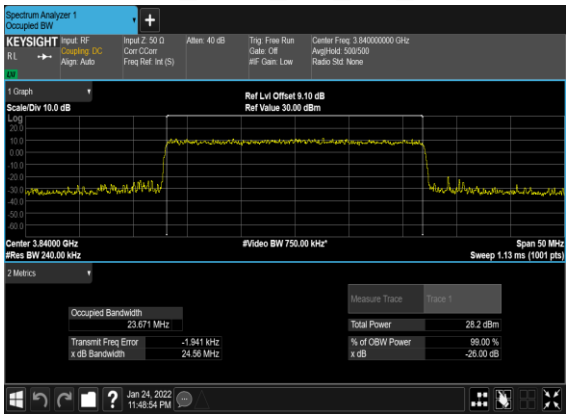
N77(25M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



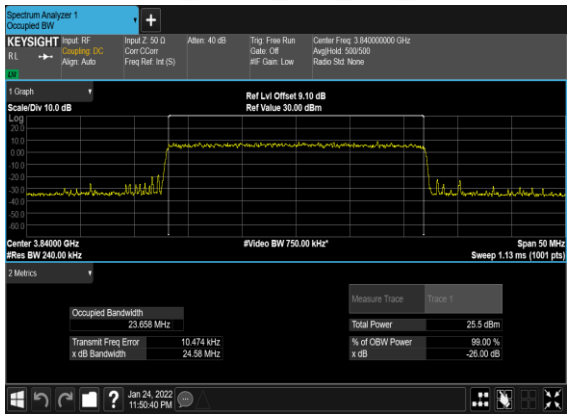
N77(25M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



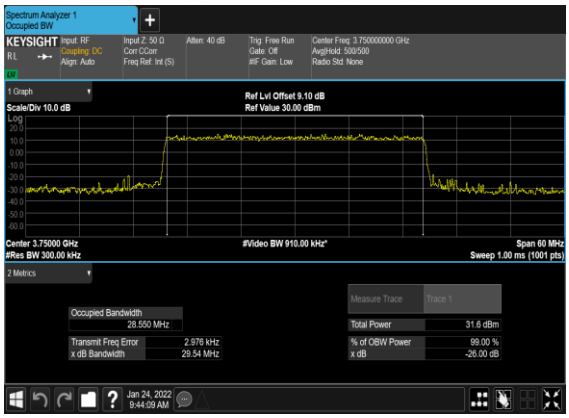
N77(25M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



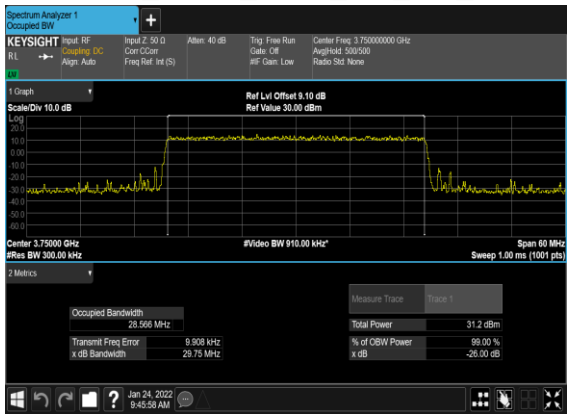
N77(25M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



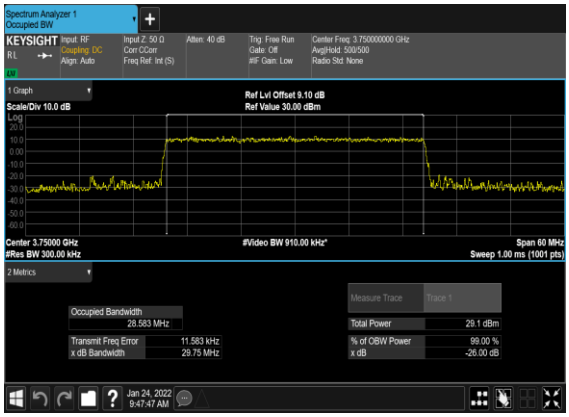
N77(30M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



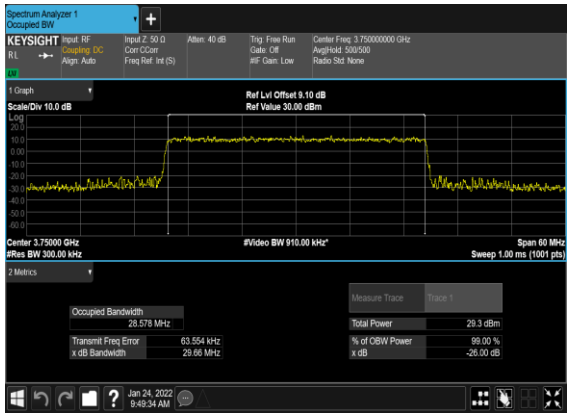
N77(30M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



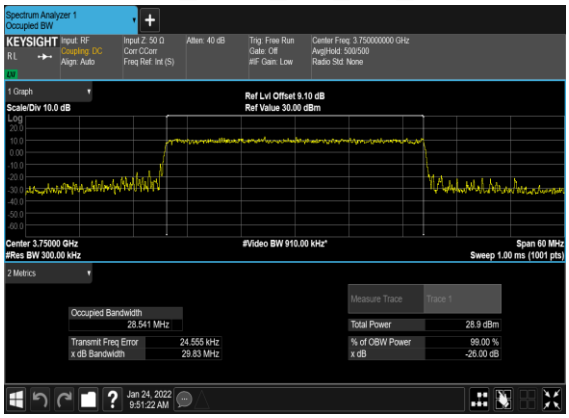
N77(30M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



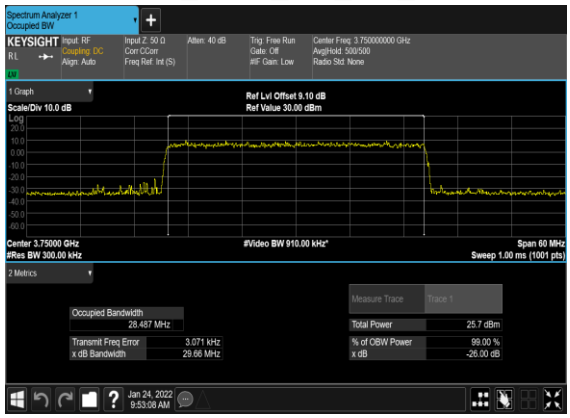
N77(30M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



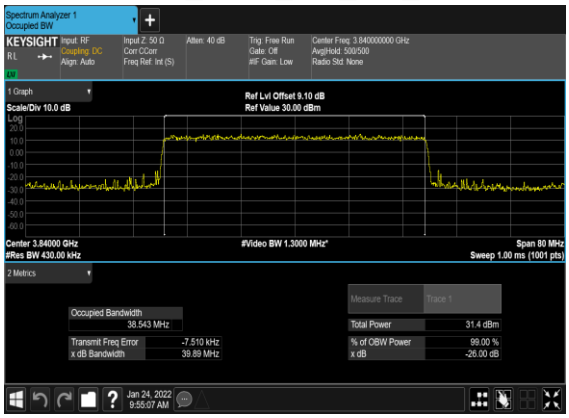
N77(30M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



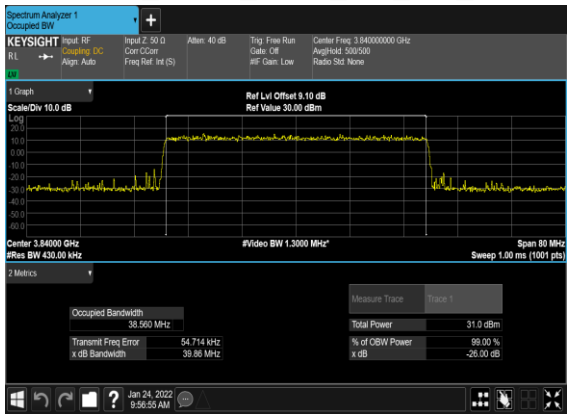
N77(30M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



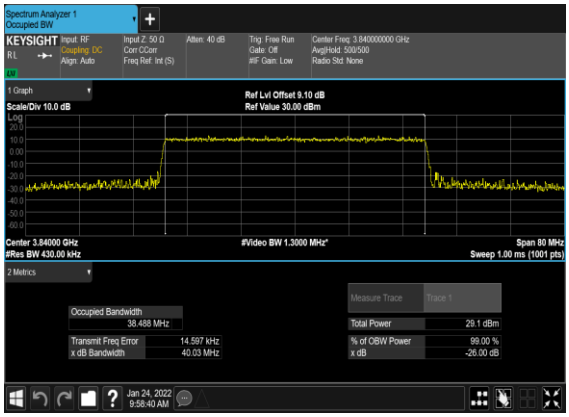
N77(40M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



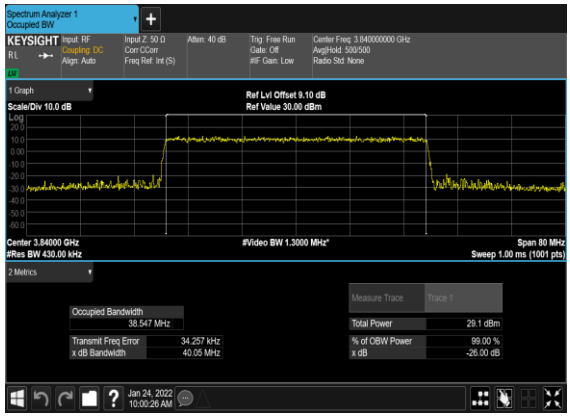
N77(40M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



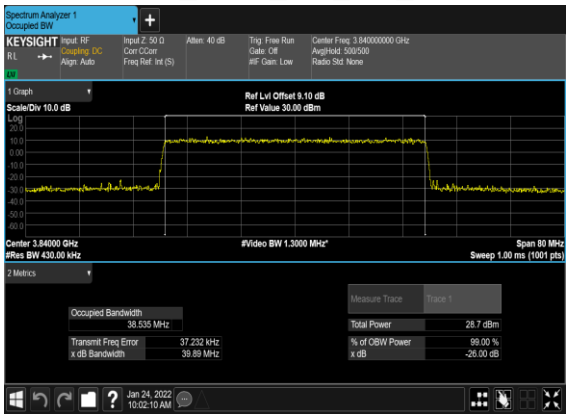
N77(40M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



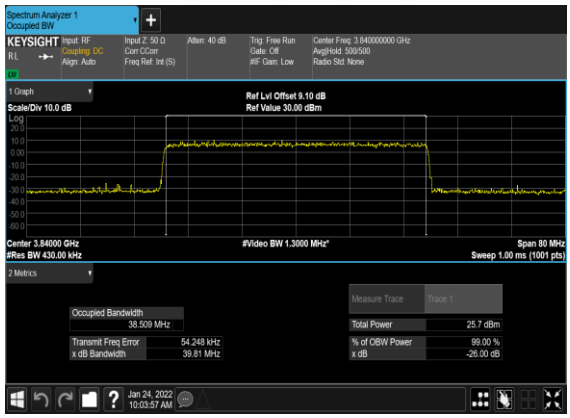
N77(40M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



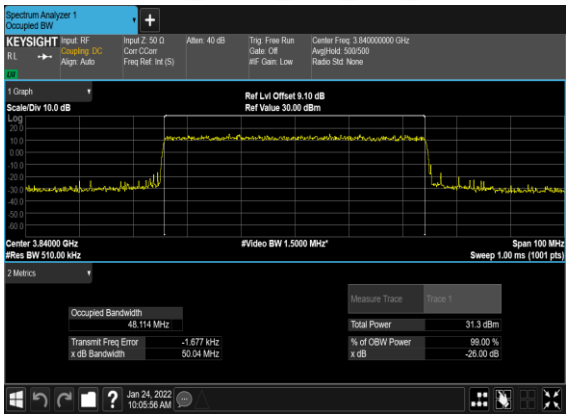
N77(40M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



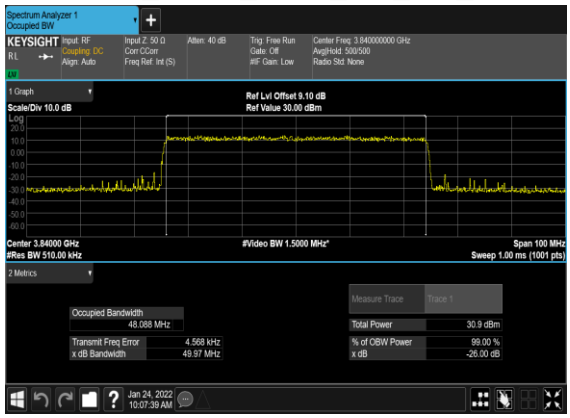
N77(40M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



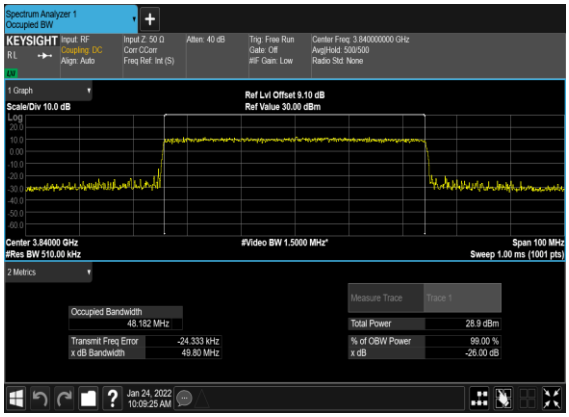
N77(50M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



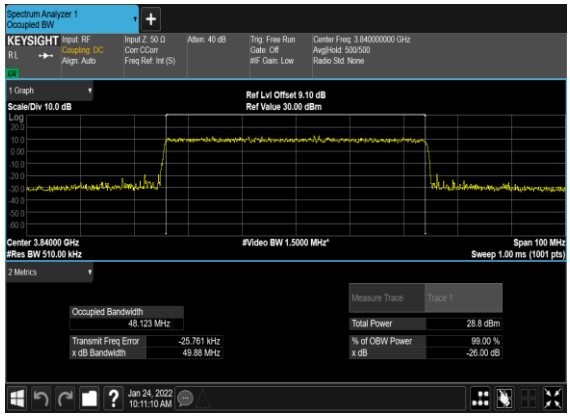
N77(50M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



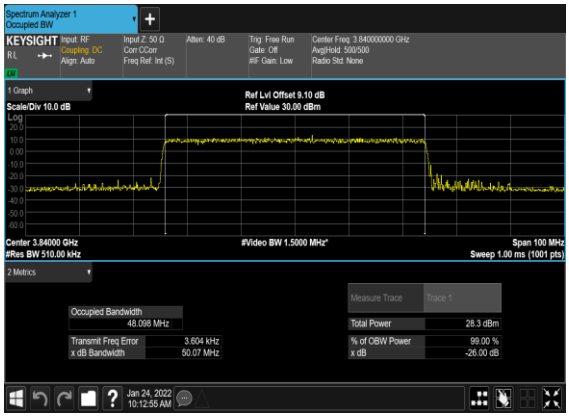
N77(50M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



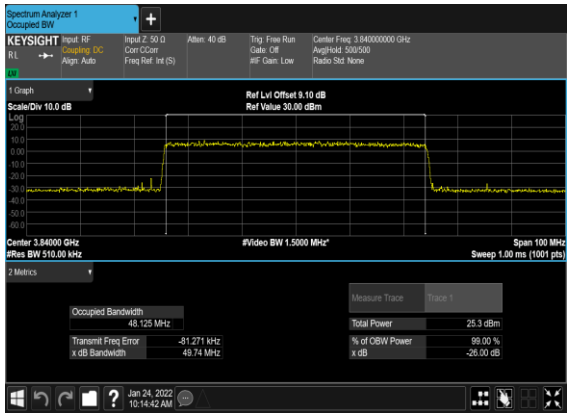
N77(50M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



N77(50M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



N77(50M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



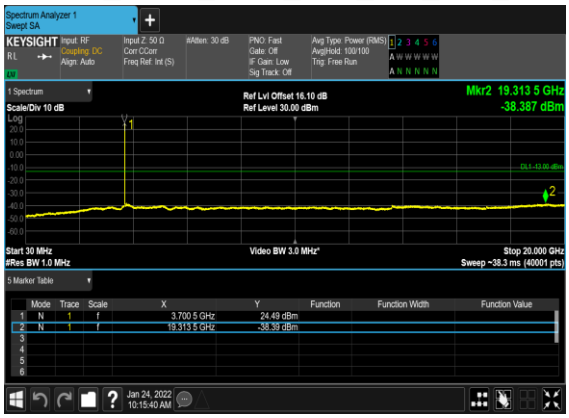
Conducted Spurious Emissions

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
77	15	10	647000	3705.0	DFT-s-OFDM BPSK	1@0	see graph	**---**
77	15	10	647000	3705.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	15	10	647000	3705.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	15	10	647000	3705.0	DFT-s-OFDM QPSK	1@0	see graph	**---**
77	15	10	647000	3705.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
77	15	10	647000	3705.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
77	15	10	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	**---**
77	15	10	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	15	10	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	15	10	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	**---**
77	15	10	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
77	15	10	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
77	15	10	665000	3975.0	DFT-s-OFDM BPSK	1@0	see graph	**---**
77	15	10	665000	3975.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	15	10	665000	3975.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	15	10	665000	3975.0	DFT-s-OFDM QPSK	1@0	see graph	**---**
77	15	10	665000	3975.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
77	15	10	665000	3975.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
77	15	25	647500	3712.5	DFT-s-OFDM BPSK	1@0	see graph	**---**
77	15	25	647500	3712.5	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	15	25	647500	3712.5	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	15	25	647500	3712.5	DFT-s-OFDM QPSK	1@0	see graph	**---**

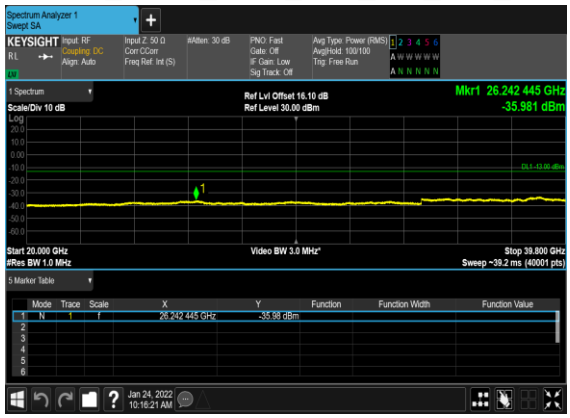
77	15	25	647500	3712.5	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
77	15	25	647500	3712.5	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
77	15	25	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	**---**
77	15	25	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	15	25	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	15	25	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	**---**
77	15	25	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
77	15	25	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
77	15	25	664500	3967.5	DFT-s-OFDM BPSK	1@0	see graph	**---**
77	15	25	664500	3967.5	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	15	25	664500	3967.5	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	15	25	664500	3967.5	DFT-s-OFDM QPSK	1@0	see graph	**---**
77	15	25	664500	3967.5	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
77	15	25	664500	3967.5	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
77	15	50	648334	3725.01	DFT-s-OFDM BPSK	1@0	see graph	**---**
77	15	50	648334	3725.01	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	15	50	648334	3725.01	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	15	50	648334	3725.01	DFT-s-OFDM QPSK	1@0	see graph	**---**
77	15	50	648334	3725.01	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
77	15	50	648334	3725.01	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
77	15	50	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	**---**
77	15	50	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	15	50	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	15	50	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	**---**

77	15	50	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
77	15	50	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
77	15	50	663666	3954.99	DFT-s-OFDM BPSK	1@0	see graph	**---**
77	15	50	663666	3954.99	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	15	50	663666	3954.99	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	15	50	663666	3954.99	DFT-s-OFDM QPSK	1@0	see graph	**---**
77	15	50	663666	3954.99	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
77	15	50	663666	3954.99	DFT-s-OFDM QPSK	1@0	see graph	**PASS**

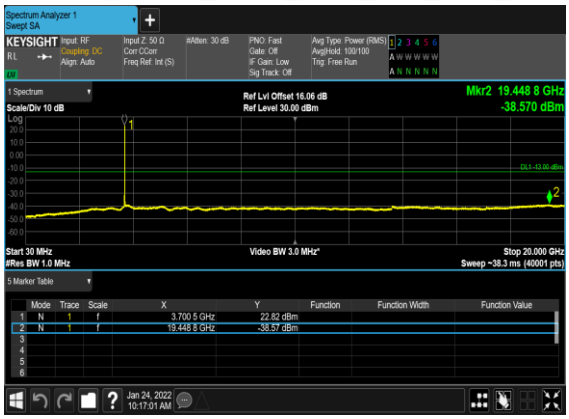
N77(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



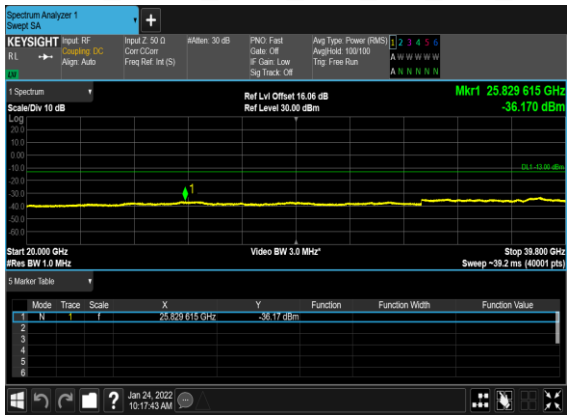
N77(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



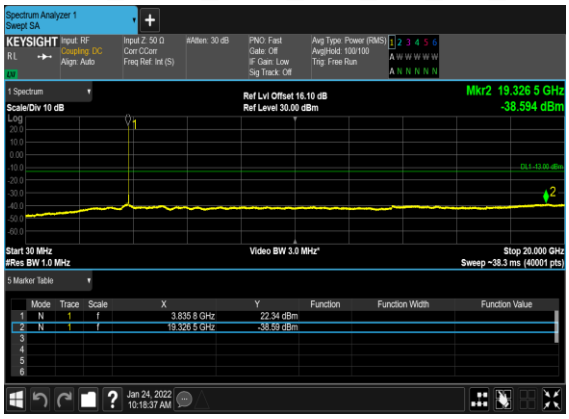
N77(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



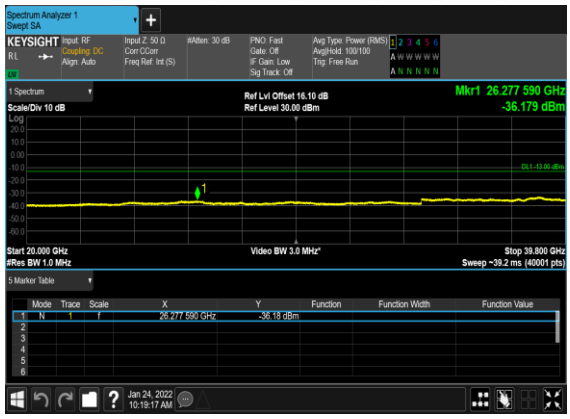
N77(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



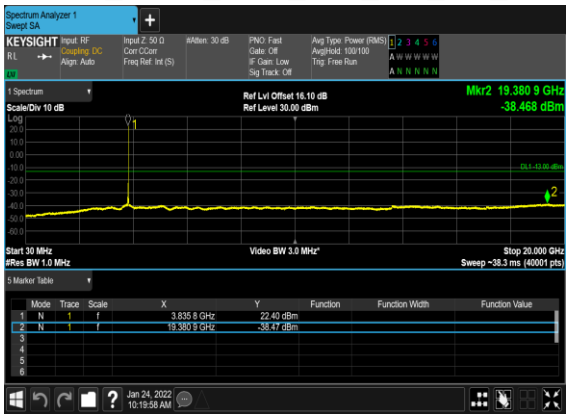
N77(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



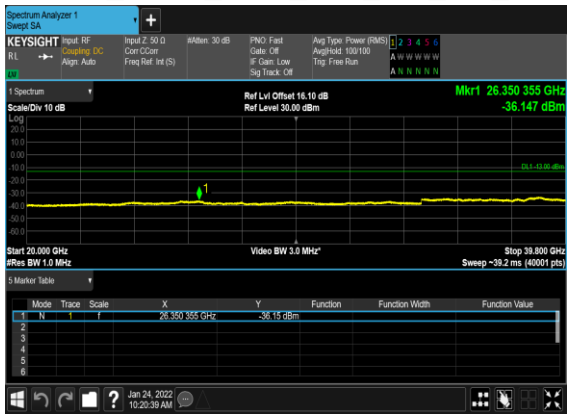
N77(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



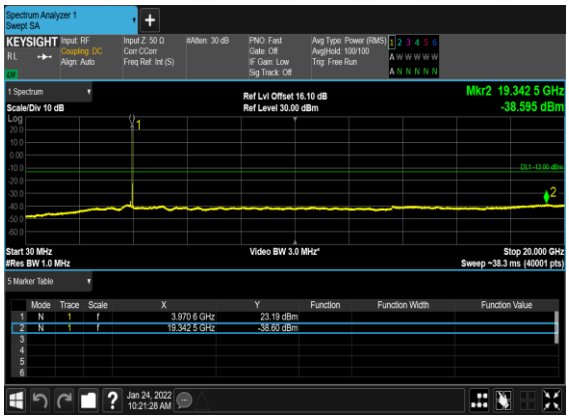
N77(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



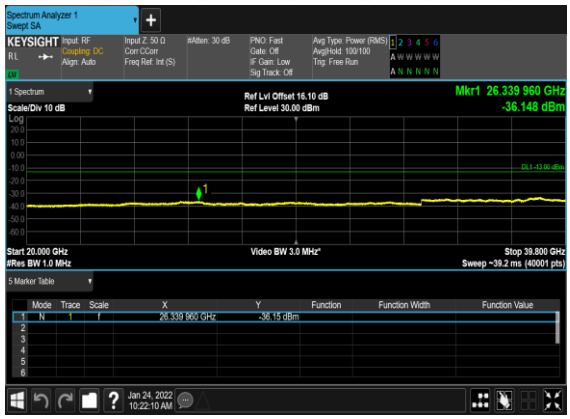
N77(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



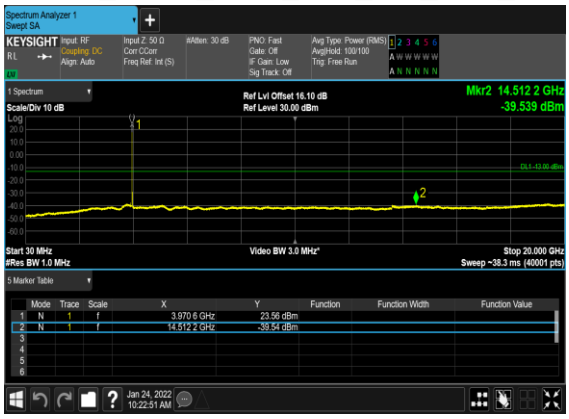
N77(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



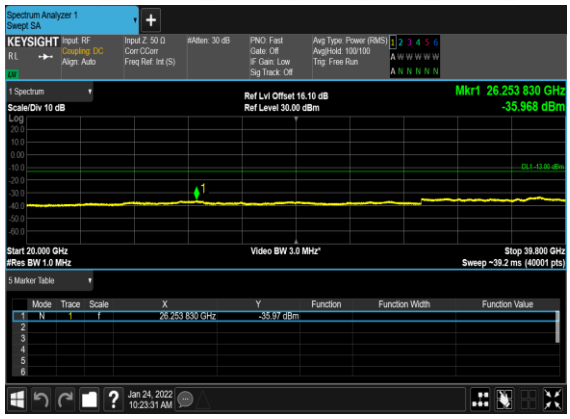
N77(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



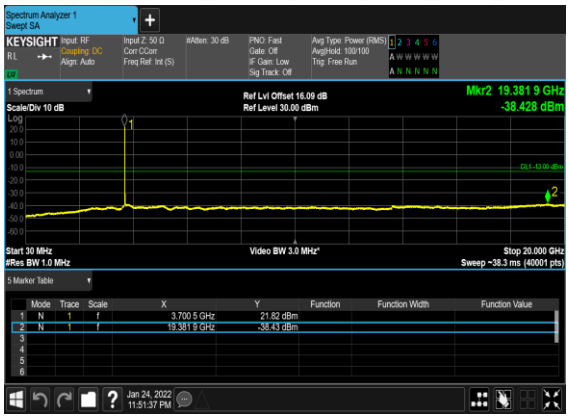
N77(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



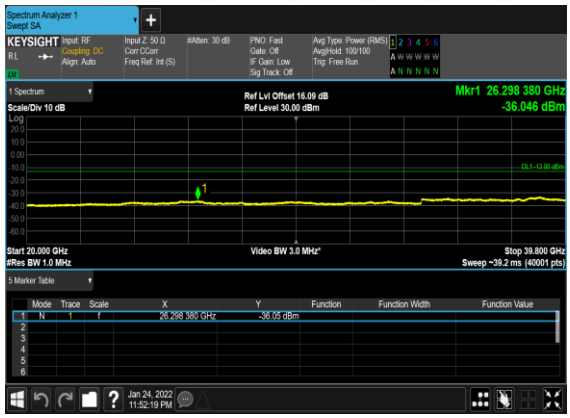
N77(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



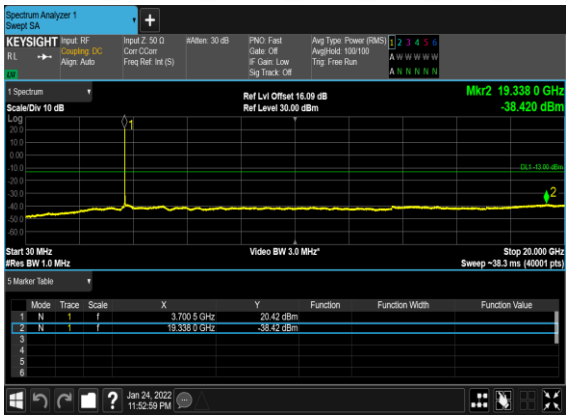
N77(25M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



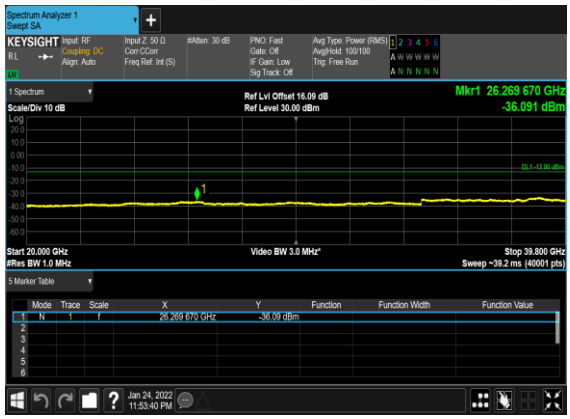
N77(25M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



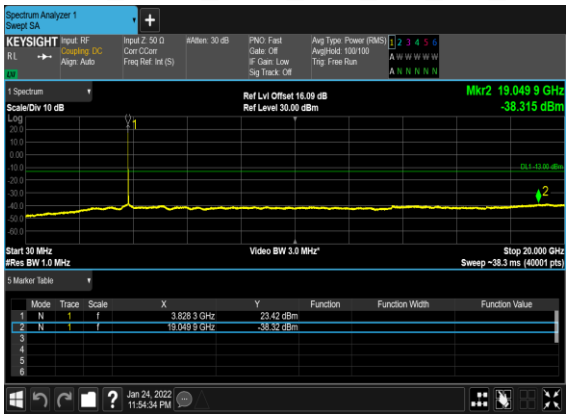
N77(25M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



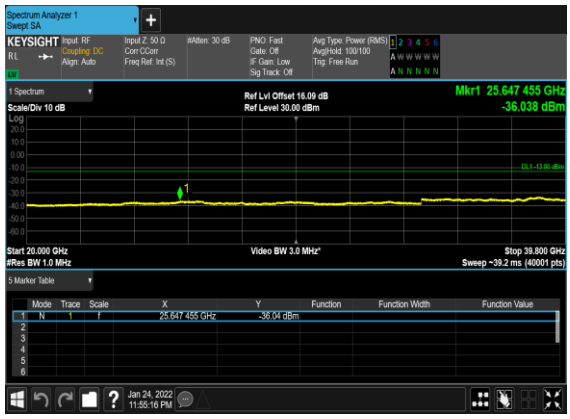
N77(25M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



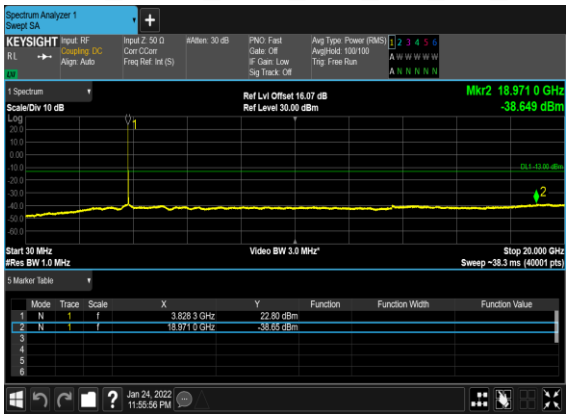
N77(25M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



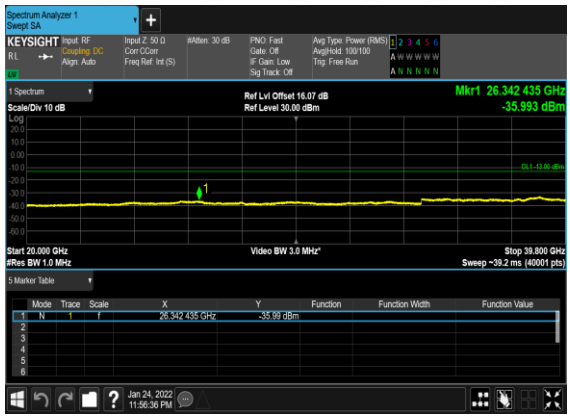
N77(25M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



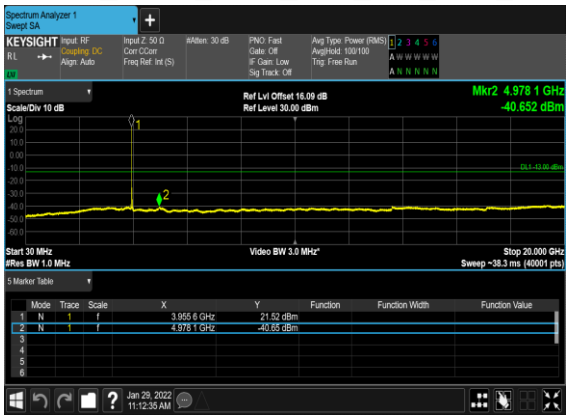
N77(25M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



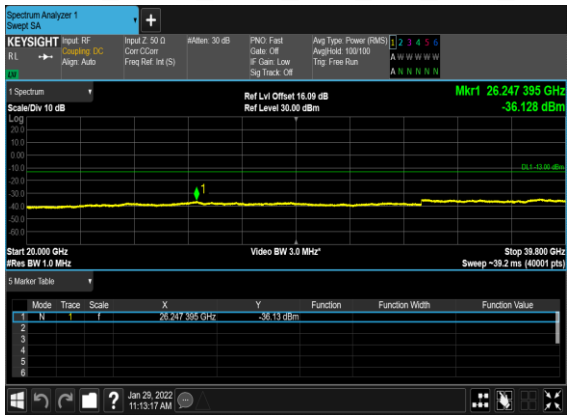
N77(25M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



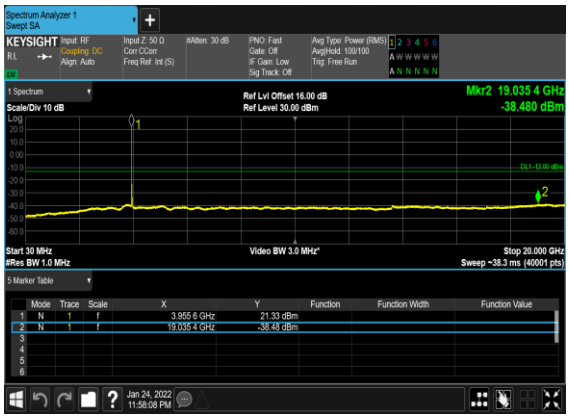
N77(25M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



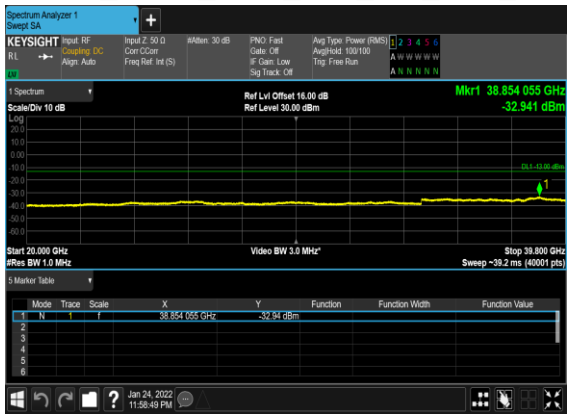
N77(25M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



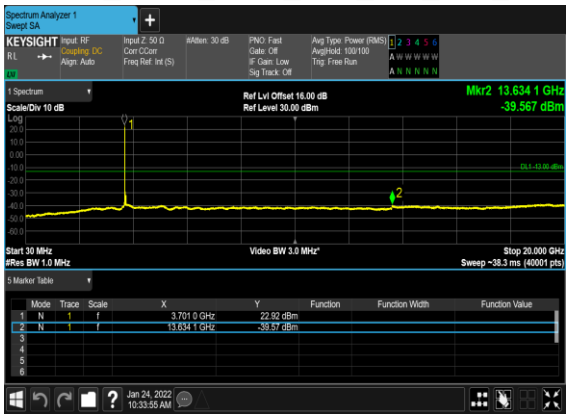
N77(25M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



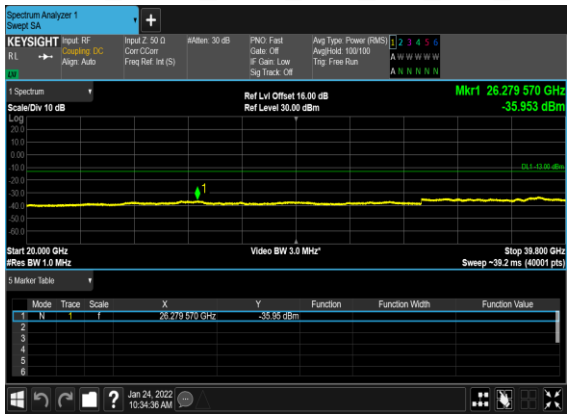
N77(25M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



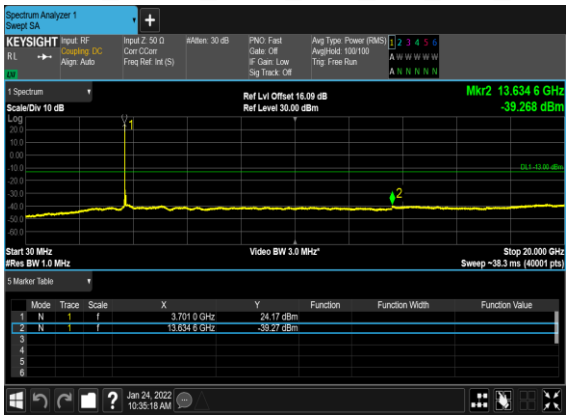
N77(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



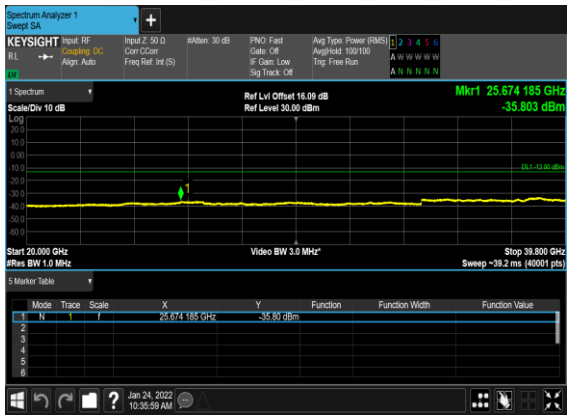
N77(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



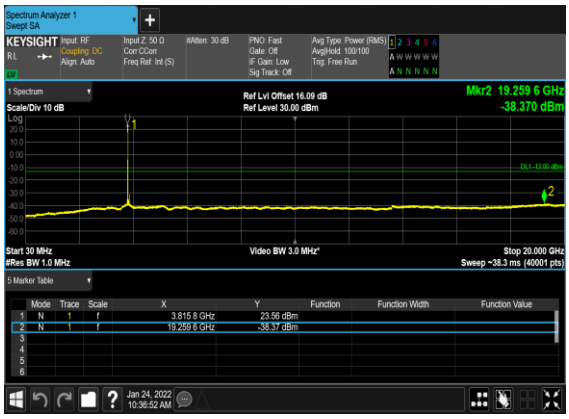
N77(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



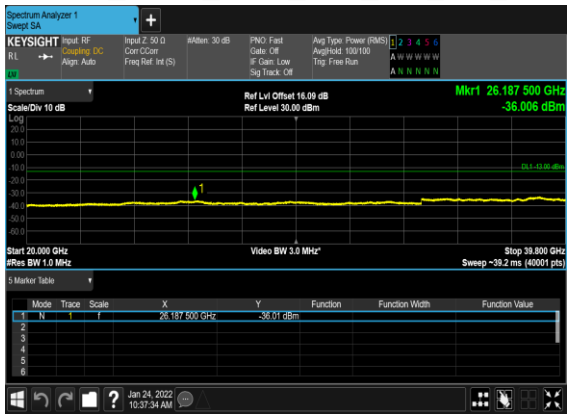
N77(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



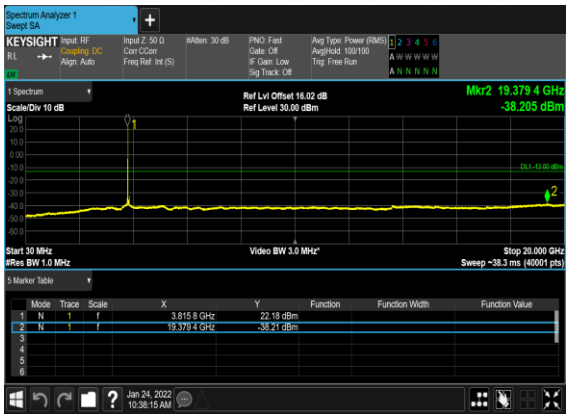
N77(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



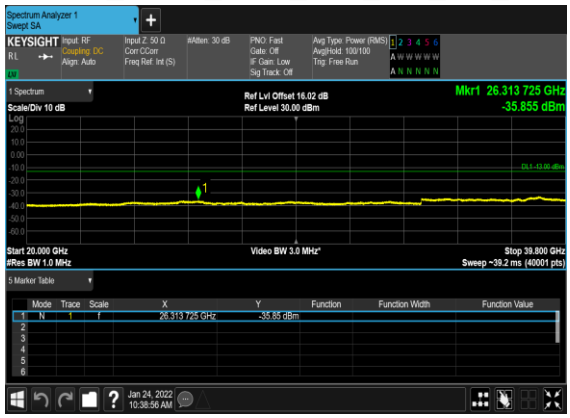
N77(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



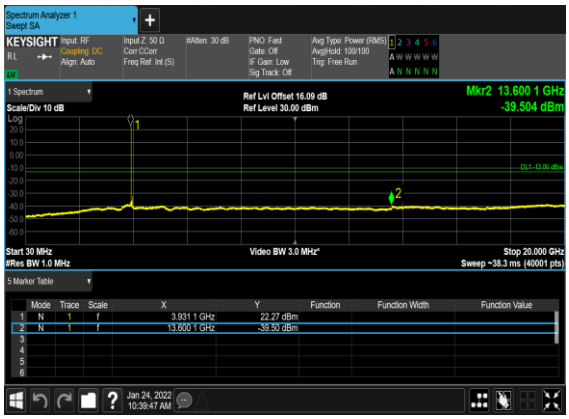
N77(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



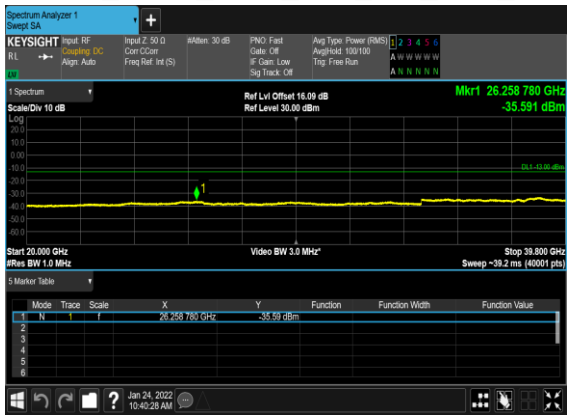
N77(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



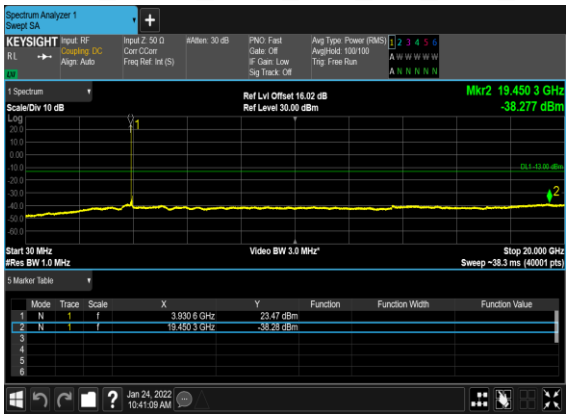
N77(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



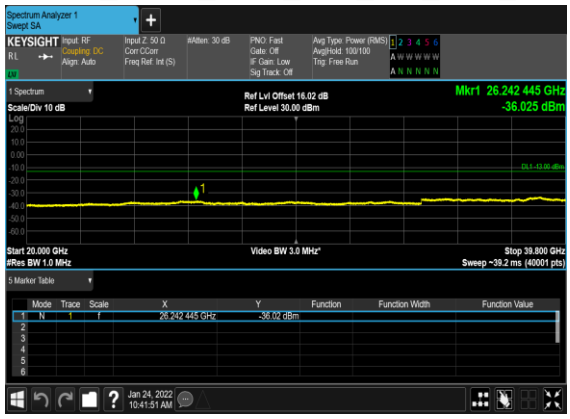
N77(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



N77(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



N77(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



Conducted Band Edge

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
77	15	10	647000	3705.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	15	10	647000	3705.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
77	15	10	647000	3705.0	DFT-s-OFDM BPSK	50@0	see graph	**PASS**
77	15	10	647000	3705.0	DFT-s-OFDM QPSK	50@0	see graph	**PASS**
77	15	10	665000	3975.0	DFT-s-OFDM BPSK	1@51	see graph	**PASS**
77	15	10	665000	3975.0	DFT-s-OFDM QPSK	1@51	see graph	**PASS**
77	15	10	665000	3975.0	DFT-s-OFDM BPSK	50@0	see graph	**PASS**
77	15	10	665000	3975.0	DFT-s-OFDM QPSK	50@0	see graph	**PASS**
77	15	25	647500	3712.5	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	15	25	647500	3712.5	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
77	15	25	647500	3712.5	DFT-s-OFDM BPSK	128@0	see graph	**PASS**
77	15	25	647500	3712.5	DFT-s-OFDM QPSK	128@0	see graph	**PASS**
77	15	25	664500	3967.5	DFT-s-OFDM BPSK	1@132	see graph	**PASS**
77	15	25	664500	3967.5	DFT-s-OFDM QPSK	1@132	see graph	**PASS**
77	15	25	664500	3967.5	DFT-s-OFDM BPSK	128@0	see graph	**PASS**
77	15	25	664500	3967.5	DFT-s-OFDM QPSK	128@0	see graph	**PASS**
77	15	50	648334	3725.01	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	15	50	648334	3725.01	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
77	15	50	648334	3725.01	DFT-s-OFDM BPSK	270@0	see graph	**PASS**
77	15	50	648334	3725.01	DFT-s-OFDM QPSK	270@0	see graph	**PASS**
77	15	50	663666	3954.99	DFT-s-OFDM BPSK	1@269	see graph	**PASS**
77	15	50	663666	3954.99	DFT-s-OFDM QPSK	1@269	see graph	**PASS**
77	15	50	663666	3954.99	DFT-s-OFDM BPSK	270@0	see graph	**PASS**
77	15	50	663666	3954.99	DFT-s-OFDM QPSK	270@0	see graph	**PASS**