

FCC RF Test Report

APPLICANT : Datalogic S.r.l.
EQUIPMENT : MOBILE COMPUTER/BARCODE READER
BRAND NAME : DATALOGIC
MODEL NAME : AELNRNA
FCC ID : U4G-AELNRNA
STANDARD : 47 CFR Part 27 Subpart Q
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)
TEST DATE(S) : Dec. 03, 2024 ~ Jan. 19, 2025

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

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

Jason Jia

Approved by: Jason Jia



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG4N0543L	Rev. 01	Initial issue of report	Feb. 24, 2025
FG4N0543L	Rev. 02	Updated Antenna information for EN_DC combination This report is an updated version, replacing the report issued on Feb. 24, 2025	Mar. 14, 2025

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	—	Report Only	-
3.5	§27.50 (k)(4)	Peak-to-Average Ratio	<13dB	PASS	
3.6	§27.50 (k)(3)	EIRP	EIRP < 1W (30dBm)	PASS	-
3.7	§2.1049	Occupied Bandwidth	—	Report Only	-
3.8	§2.1051 §27.53 (n)(2)	Conducted Band Edge Measurement	-13dBm/MHz	PASS	-
3.9	§2.1051 §27.53 (n)(2)	Conducted Spurious Emission	-13dBm/MHz	PASS	-
3.10	§2.1055 §27.54	Frequency Stability Temperature & Voltage	Within the band	PASS	-
4.4	§2.1053 §27.53 (n)(2)	Radiated Spurious Emission	-13dBm/MHz	PASS	Under limit 43.16 dB at 10356.00 MHz

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty"

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

1 General Description

1.1 Applicant

Datalogic S.r.l.

Via San Vitalino 13 CALDERARA DI RENO, BO 40012 Italy

1.2 Manufacturer

Datalogic S.r.l.

Via San Vitalino 13 CALDERARA DI RENO, BO 40012 Italy

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	MOBILE COMPUTER/BARCODE READER
Brand Name	DATALOGIC
Model Name	AELNRNA
FCC ID	U4G-AELNRNA
IMEI/SN Code	Conducted : 356616170010964/356616170010972 Radiation : X24N00016
HW Version	V3
SW Version	1.18.001.20241225
EUT Stage	Identical Prototype

1.4 Product Specification of Equipment Under Test

Product Feature	
Tx/Rx Frequency	5G NR n77: 3450 MHz ~ 3550 MHz 5G NR n78: 3450 MHz ~ 3550 MHz
SCS	30kHz
Bandwidth	n77/n78: 20 / 30 / 40 / 50 / 60 / 70 / 80 / 90 / 100MHz
Antenna Gain	<Ant. 2> 5G NR n77: -4.0 dBi 5G NR n78: -4.0 dBi <Ant. 3> 5G NR n77: -4.0 dBi 5G NR n78: -4.0 dBi <Ant. 5> 5G NR n77: -4.0 dBi 5G NR n78: -4.0 dBi <Ant. 6> 5G NR n77: -4.0 dBi 5G NR n78: -4.0 dBi
Type of Modulation	CP-OFDM: QPSK / 16QAM / 64QAM / 256QAM DFT-s-OFDM: PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM

Remark:

1. The maximum EIRP is calculated from max output power and max antenna gain, only the maximum EIRP is shown in the report, 5G NR n77/n78 for Antenna 2 and UL MIMO for Antenna 2+5
2. 5G NR n77 support UL MIMO mode, only the worst test data of Ant(2+5) is shown in the report.
3. 5G NR n77/n78 UL_MIMO mode only supports CP-OFDM Modulation, the MIMO mode is completely uncorrelated, so the directional gain is selected the maximum gain among all antennas.
4. For UL MIMO mode, the conducted BE/Spurious are tested at single antenna port and add $10 \cdot \log(N_{\text{ANT}})$ according to KDB 662911 D01.
5. 5G NR n77/n78 support SA and NSA mode. The whole testing has assessed SA mode for n77 by referring to the higher conducted power for conducted test items.
6. The device supports HPUE mode for 5G NR n77/n78.
7. All the supported EN-DC combinations are verified conducted power, only the EN-DC combination with highest power are shown in the report.
8. 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		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)
20	3460.02 ~ 3540.00	0.1742	18M2G7D	0.1393	18M2W7D
30	3465.00 ~ 3534.99	0.1742	27M8G7D	0.1396	27M9W7D
40	3470.01 ~ 3529.98	0.1663	37M8G7D	0.1340	37M9W7D
50	3475.02 ~ 3525.00	0.1660	47M6G7D	0.1352	47M6W7D
60	3480.00 ~ 3519.99	0.1679	57N8G7D	0.1355	58M0W7D
70	3485.01 ~ 3514.98	0.1671	67M5G7D	0.1327	67M5W7D
80	3490.02 ~ 3510.00	0.1683	77M5G7D	0.1371	77M6W7D
90	3495.00 ~ 3504.99	0.1652	87M6G7D	0.1318	87M6W7D
100	3500.01	0.1746	97M5G7D	0.1178	97M6W7D

5G NR n78		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)
20	3460.02 ~ 3540.00	0.1521	18M2G7D	0.1233	18M2W7D
30	3465.00 ~ 3534.99	0.1466	27M8G7D	0.1169	27M9W7D
40	3470.01 ~ 3529.98	0.1517	37M8G7D	0.1208	37M9W7D
50	3475.02 ~ 3525.00	0.1585	47M6G7D	0.1276	47M6W7D
60	3480.00 ~ 3519.99	0.1633	57N8G7D	0.1315	58M0W7D
70	3485.01 ~ 3514.98	0.1535	67M5G7D	0.1222	67M5W7D
80	3490.02 ~ 3510.00	0.1514	77M5G7D	0.1213	77M6W7D
90	3495.00 ~ 3504.99	0.1500	87M6G7D	0.1208	87M6W7D
100	3500.01	0.1667	97M5G7D	0.1236	97M6W7D

5G NR n77 UL MIMO		QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
20	3460.02 ~ 3540.00	0.1233	18M3G7D	0.1109	18M3W7D
30	3465.00 ~ 3534.99	0.1247	27M8G7D	0.1161	28M0W7D
40	3470.01 ~ 3529.98	0.1247	37M9G7D	0.1146	37M9W7D
50	3475.02 ~ 3525.00	0.1194	47M5G7D	0.1109	47M7W7D
60	3480.00 ~ 3519.99	0.1208	57M9G7D	0.1117	57M9W7D
70	3485.01 ~ 3514.98	0.1239	67M5G7D	0.1153	67M7W7D
80	3490.02 ~ 3510.00	0.1225	77M6G7D	0.1148	77M6W7D
90	3495.00 ~ 3504.99	0.1222	87M5G7D	0.1114	87M7W7D
100	3500.01	0.1279	97M6G7D	0.1067	97M6W7D

5G NR n78 UL MIMO		QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
20	3460.02 ~ 3540.00	0.1256	18M3G7D	0.1130	18M3W7D
30	3465.00 ~ 3534.99	0.1262	27M8G7D	0.1161	28M0W7D
40	3470.01 ~ 3529.98	0.1262	37M9G7D	0.1159	37M9W7D
50	3475.02 ~ 3525.00	0.1199	47M5G7D	0.1127	47M7W7D
60	3480.00 ~ 3519.99	0.1233	57M9G7D	0.1127	57M9W7D
70	3485.01 ~ 3514.98	0.1262	67M5G7D	0.1156	67M7W7D
80	3490.02 ~ 3510.00	0.1247	77M6G7D	0.1148	77M6W7D
90	3495.00 ~ 3504.99	0.1265	87M5G7D	0.1153	87M7W7D
100	3500.01	0.1230	97M6G7D	0.1089	97M6W7D

Note:

- 5G NR Band n77 overlaps the entire frequency range of Band n77, and n77 power > n77 power, therefore the conducted test results of n77 provided in this report cover n78.
- All modulations have been tested, and only the worst test results of PSK & QAM are shown in the report.

1.7 Testing Site

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

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

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

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 518103 People's Republic of China TEL: +86-755-86066985		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	TH01-SZ	CN1256	421272

Test data subcontracted: conducted test case in section 3 of this report.

1.8 Test Software

Item	Site	Manufacture	Name	Version
1.	03CH04-KS	AUDIX	E3	210616

1.9 Applied Standards

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

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

Remark: 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 listed below are performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 with maximum output power.

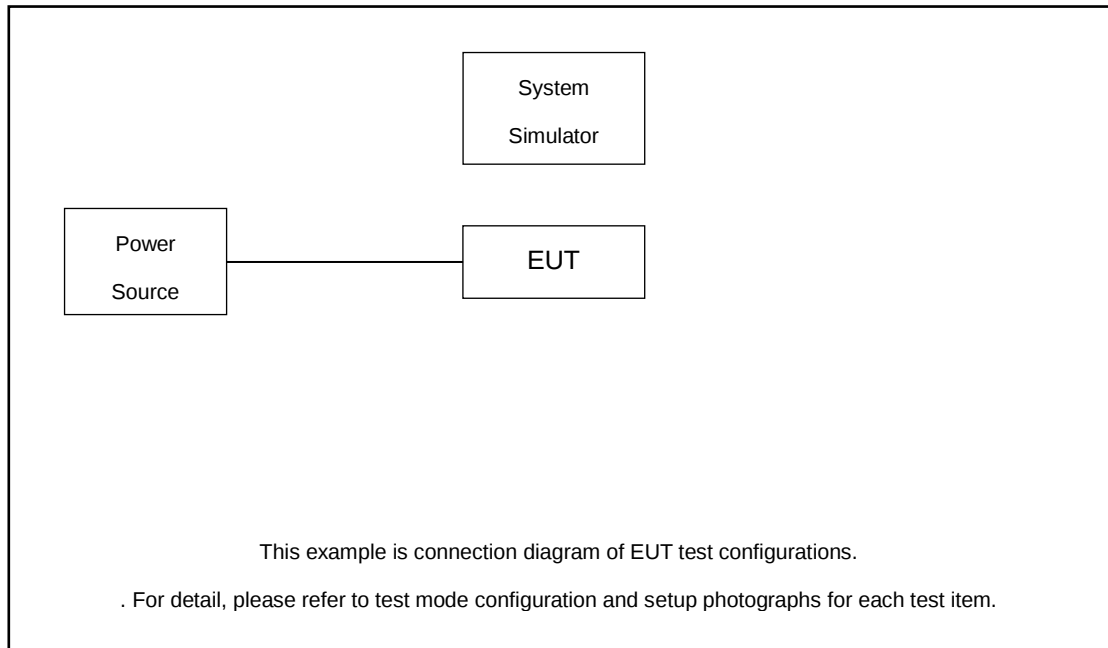
For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z for Adapter mode, Cradle mode and Earphone mode. The worst cases (Y plane-Adapter mode) were recorded in this report.

Test Cases	Band	Bandwidth (MHz)	Modulation	RB #	Test Channel
		eg. 5M, 10M, 15M, 20M	eg. PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB, Partial RB, Full RB	L/M/H
Max. Output Power	5G n77	20M, 30M, 40M, 50M, 60M, 70M, 80M, 90M, 100M	All Modulations	1RB, Full RB	L, M, H
	5G n78	20M, 30M, 40M, 50M, 60M, 70M, 80M, 90M, 100M	All Modulations	1RB, Full RB	L, M, H
Peak-to-Average Ratio	5G n77	20M	PI/2 BPSK, QPSK	Full RB	M
E.I.R.P	5G n77	20M, 30M, 40M, 50M, 60M, 70M, 80M, 90M, 100M	All Modulations	1RB, Full RB	L, M, H
	5G n78	20M, 30M, 40M, 50M, 60M, 70M, 80M, 90M, 100M	All Modulations	1RB, Full RB	L, M, H
26dB and 99% Bandwidth	5G n77	20M, 30M, 40M, 50M, 60M, 70M, 80M, 90M, 100M	QPSK, 16QAM, 64QAM, 256QAM	Full RB	M
Conducted Band Edge	5G n77	20M, 60M, 100M	PI/2 BPSK, QPSK	1RB, Full RB	L, H
Conducted Spurious Emission	5G n77	20M, 60M, 100M	PI/2 BPSK, QPSK	1RB	L, M, H
Frequency Stability	5G n77	20M	QPSK	Full RB	M
Radiated Spurious Emission	5G n77	Worst case from maximum power			M
	5G n78	Worst case from maximum power			M

Note:

- 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.
- Frequency Stability: Normal Voltage = 4.0V ; Low Voltage =3.55V.; High Voltage =4.4V.

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	Power Supply	GWINSTEK	PSS-2002	N/A	N/A	Unshielded, 1.8 m
2.	LTE Base Station	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
3.	NR Base Station	Anritsu	MT8000A	N/A	N/A	Unshielded, 1.8 m
4.	Adapter	N/A	N/A	N/A	N/A	N/A
5.	USB Cable	N/A	N/A	N/A	N/A	N/A

2.4 Measurement Results Explanation Example

For all conducted test items:

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

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

Offset = RF cable loss.

Following shows an offset computation example with cable loss 8.9 dB.

Example :

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)}. \\ &= 8.9 \text{ (dB)} \end{aligned}$$

2.5 Frequency List of Low/Middle/High Channels

5G n77/n78 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
100	Channel	-	633334	-
	Frequency	-	3500.01	-
90	Channel	633000	633334	633666
	Frequency	3495	3500.01	3504.99
80	Channel	632668	633334	634000
	Frequency	3490.02	3500.01	3510
70	Channel	632334	633334	634332
	Frequency	3485.01	3500.01	3514.98
60	Channel	632000	633334	634666
	Frequency	3480	3500.01	3519.99
50	Channel	631668	633334	635000
	Frequency	3475.02	3500.01	3525
40	Channel	631334	633334	635332
	Frequency	3470.01	3500.01	3529.98
30	Channel	631000	633334	635666
	Frequency	3465	3500.01	3534.99
20	Channel	630668	633334	636000
	Frequency	3460.02	3500.01	3540

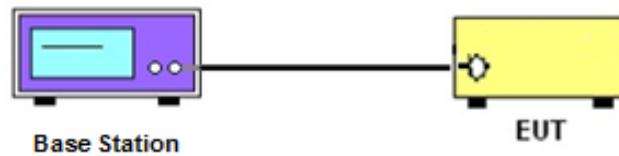
3 Conducted Test Items

3.1 Measuring Instruments

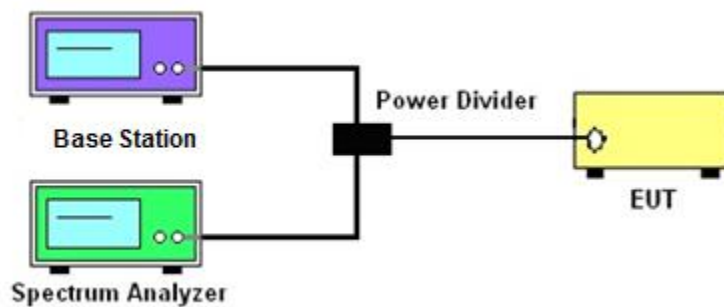
See list of measuring instruments of this test report.

3.2 Test Setup

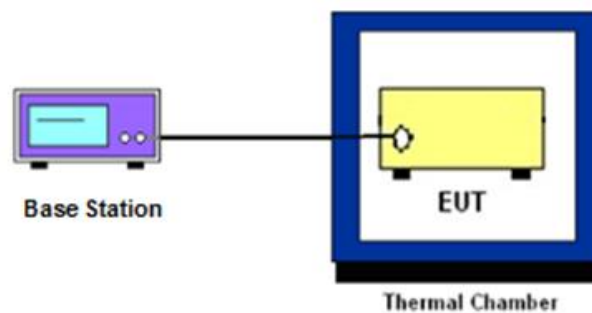
3.2.1 Conducted Output Power



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



3.2.3 Frequency Stability



3.3 Test Result of Conducted Test

Please refer to Appendix A.

3.4 Conducted Output Power Measurement

3.4.1 Description of the Conducted Output Power Measurement

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

3.4.2 Test Procedures

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

3.5 Peak-to-Average Ratio

3.5.1 Description of the PAR Measurement

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

3.5.2 Test Procedures

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

3.6 EIRP

3.6.1 Description of EIRP Limit

§ 27.50 (k)(3)

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

3.6.2 Test Procedures

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

3.7 Occupied Bandwidth

3.7.1 Description of Occupied Bandwidth Measurement

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

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

3.7.2 Test Procedures

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

3.8 Conducted Band Edge Measurement

3.8.1 Description of Conducted Band Edge Measurement

§ 27.53 (n)(2)

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

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

3.8.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The band edges of low and high channels for the highest RF powers were measured.
4. Set RBW $\geq 1\%$ EBW but limited to a maximum of 200 kHz in the 1MHz band immediately outside and adjacent to the band edge.
5. Beyond the 1 MHz and 5 MHz removed from the band edge, set RBW ≥ 500 KHz.
6. Beyond the 5 MHz removed from the band edge, set RBW = 1MHz.
7. Set spectrum analyzer with RMS detector.
8. Offset has included the duty factor for Band n77/n78. Duty factor $= 10 \log (1/x)$, where x is the measured duty cycle
9. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
10. Checked that all the results comply with the emission limit line.

3.9 Conducted Spurious Emission Measurement

3.9.1 Description of Conducted Spurious Emission Measurement

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

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

3.9.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
4. The middle channel for the highest RF power within the transmitting frequency was measured.
5. The conducted spurious emission for the whole frequency range was taken.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz.
7. Set spectrum analyzer with RMS detector.
8. Offset has included the duty factor for Band n77/n78. Duty factor = $10 \log (1/x)$, where x is the measured duty cycle
9. Taking the record of maximum spurious emission.
10. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
11. Checked that all the results comply with the emission limit line.

3.10 Frequency Stability Measurement

3.10.1 Description of Frequency Stability Measurement

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

3.10.2 Test Procedures for Temperature Variation

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

3.10.3 Test Procedures for Voltage Variation

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

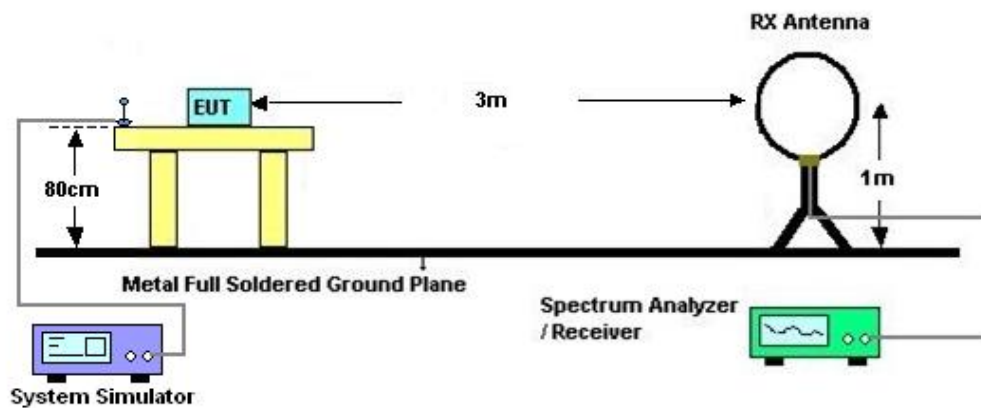
4 Radiated Test Items

4.1 Measuring Instruments

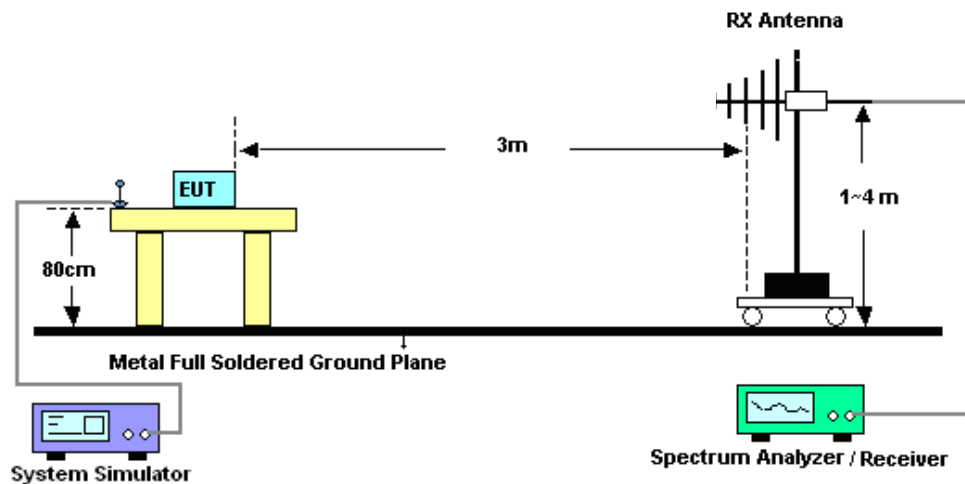
See list of measuring instruments of this test report.

4.2 Test Setup

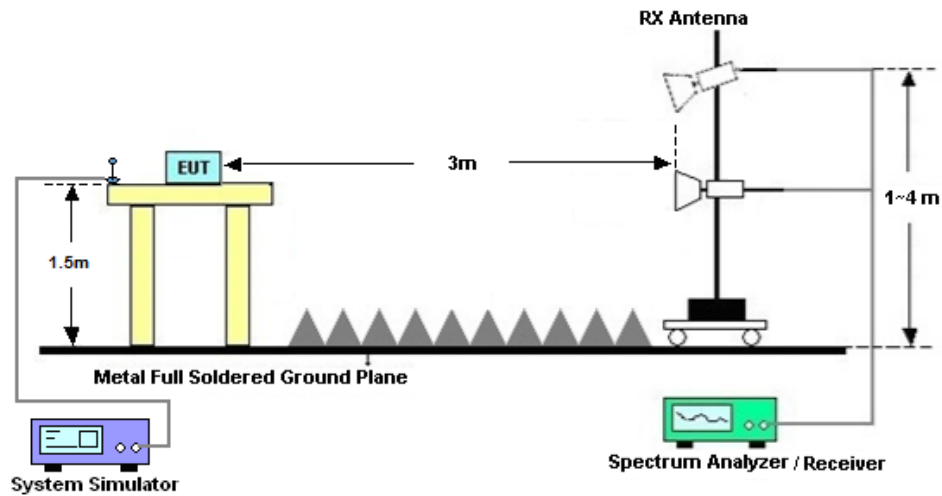
4.2.1 For radiated test below 30MHz



4.2.2 For radiated test from 30MHz to 1GHz



4.2.3 For radiated test above 1GHz



4.3 Test Result of Radiated Test

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

Please refer to Appendix B.

4.4 Radiated Spurious Emission Measurement

4.4.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI C63.26. The power of any emission outside of the authorized operating frequency ranges shall not exceed -13 dBm/MHz.

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

4.4.2 Test Procedures

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

5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 09, 2024	Dec. 03, 2024 ~ Dec. 17, 2024	Apr. 08, 2025	Conducted (TH01-SZ)
Power Divider	TOJOIN	PS-2SM-04 265	60.06.020.0077	0.4GHz~26.5GHz	Dec. 25, 2023	Dec. 03, 2024 ~ Dec. 17, 2024	Dec. 24, 2024	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 03, 2024	Dec. 03, 2024 ~ Dec. 17, 2024	Jul. 02, 2025	Conducted (TH01-SZ)
EXA Spectrum Analyzer	Keysight	N9010A	MY55370528	10Hz-44G, MAX 30dB	Oct. 11, 2024	Jan. 19, 2025	Oct. 10, 2025	Radiation (03CH04-KS)
Loop Antenna	R&S	HFH2-Z2E	101125	9kHz~30MHz	Sep. 08, 2024	Jan. 19, 2025	Sep. 07, 2025	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	44483	30MHz-1GHz	Nov. 23, 2024	Jan. 19, 2025	Nov. 22, 2025	Radiation (03CH04-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00227860	1GHz~18GHz	Aug. 16, 2024	Jan. 19, 2025	Aug. 15, 2025	Radiation (03CH04-KS)
SHF-EHF Horn	Com-power	AH-840	101116	18GHz~40GHz	Oct. 22, 2024	Jan. 19, 2025	Oct. 21, 2025	Radiation (03CH04-KS)
Amplifier	SONOMA	310N	380826	9KHz-1GHz	Jul. 03, 2024	Jan. 19, 2025	Jul. 02, 2025	Radiation (03CH04-KS)
Amplifier	EM	EM18G40G A	060852	18~40GHz	Jan. 03, 2025	Jan. 19, 2025	Jan. 02, 2026	Radiation (03CH04-KS)
high gain Amplifier	EM	EM01G18G A	060840	1Ghz-18Ghz	Oct. 09, 2024	Jan. 19, 2025	Oct. 08, 2025	Radiation (03CH04-KS)
Amplifier	EM	EM01G18G A	060892	1Ghz-18Ghz	Oct. 09, 2024	Jan. 19, 2025	Oct. 08, 2025	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Jan. 19, 2025	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Jan. 19, 2025	NCR	Radiation (03CH04-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Jan. 19, 2025	NCR	Radiation (03CH04-KS)

NCR: No Calibration Required

6 Measurement Uncertainty

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 Conducted Measurement

Test Item	Uncertainty
Conducted Spurious Emission & Bandedge	± 1.34 dB
Occupied Channel Bandwidth	± 0.012 MHz
Conducted Power	± 1.34 dB
Peak to Average Ratio	± 1.34 dB
Frequency Stability	± 1.3 Hz

Uncertainty of Radiated Emission Measurement (9 KHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.30 dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.83 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.83 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.82 dB
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----- THE END -----



Appendix A. Test Results of Conducted Test

Test Engineer :	Khan Zheng	Temperature :	22~23°C
		Relative Humidity :	40~42%



Software Version: 23.06.1602

FR1 N77(ANT2)

Transmitter Conducted Output Power and EIRP, ($G_T - L_C$)=-4.0dB

NR Band	SCS	BandWidth	Arfcn	Freq(MHz)	Modulation	RB	Conducted Power(dBm)	EIRP(dBm)	EIRP(W)
77	30	20	630668	3460.02	DFT-s-OFDM QPSK	25@12	25.89	21.89	0.1545
77	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@1	25.95	21.95	0.1567
77	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@49	25.8	21.8	0.1514
77	30	20	630668	3460.02	DFT-s-OFDM 16 QAM	25@12	24.97	20.97	0.1250
77	30	20	630668	3460.02	DFT-s-OFDM 16 QAM	1@1	25.01	21.01	0.1262
77	30	20	630668	3460.02	DFT-s-OFDM 16 QAM	1@49	24.85	20.85	0.1216
77	30	20	645000	3675	DFT-s-OFDM QPSK	25@12	25.87	21.87	0.1538
77	30	20	645000	3675	DFT-s-OFDM QPSK	1@1	26	22	0.1585
77	30	20	645000	3675	DFT-s-OFDM QPSK	1@49	25.7	21.7	0.1479
77	30	20	645000	3675	DFT-s-OFDM 16 QAM	25@12	24.95	20.95	0.1245
77	30	20	645000	3675	DFT-s-OFDM 16 QAM	1@1	25.03	21.03	0.1268
77	30	20	645000	3675	DFT-s-OFDM 16 QAM	1@49	24.77	20.77	0.1194
77	30	20	659332	3889.98	DFT-s-OFDM QPSK	25@12	26.41	22.41	0.1742
77	30	20	659332	3889.98	DFT-s-OFDM QPSK	1@1	26.4	22.4	0.1738
77	30	20	659332	3889.98	DFT-s-OFDM QPSK	1@49	26	22	0.1585
77	30	20	659332	3889.98	DFT-s-OFDM 16 QAM	25@12	25.44	21.44	0.1393
77	30	20	659332	3889.98	DFT-s-OFDM 16 QAM	1@1	25.43	21.43	0.1390
77	30	20	659332	3889.98	DFT-s-OFDM 16 QAM	1@49	25.05	21.05	0.1274
77	30	30	631000	3465	DFT-s-OFDM QPSK	36@18	25.93	21.93	0.1560
77	30	30	631000	3465	DFT-s-OFDM QPSK	1@1	26.13	22.13	0.1633
77	30	30	631000	3465	DFT-s-OFDM QPSK	1@76	25.4	21.4	0.1380
77	30	30	631000	3465	DFT-s-OFDM 16 QAM	36@18	24.89	20.89	0.1227
77	30	30	631000	3465	DFT-s-OFDM 16 QAM	1@1	25.16	21.16	0.1306
77	30	30	631000	3465	DFT-s-OFDM 16 QAM	1@76	24.44	20.44	0.1107
77	30	30	645000	3675	DFT-s-OFDM QPSK	36@18	25.97	21.97	0.1574
77	30	30	645000	3675	DFT-s-OFDM QPSK	1@1	25.95	21.95	0.1567
77	30	30	645000	3675	DFT-s-OFDM QPSK	1@76	25.68	21.68	0.1472
77	30	30	645000	3675	DFT-s-OFDM 16 QAM	36@18	24.94	20.94	0.1242
77	30	30	645000	3675	DFT-s-OFDM 16 QAM	1@1	25	21	0.1259
77	30	30	645000	3675	DFT-s-OFDM 16 QAM	1@76	24.74	20.74	0.1186
77	30	30	659000	3885	DFT-s-OFDM QPSK	36@18	26.41	22.41	0.1742
77	30	30	659000	3885	DFT-s-OFDM QPSK	1@1	26.21	22.21	0.1663
77	30	30	659000	3885	DFT-s-OFDM QPSK	1@76	26.07	22.07	0.1611



NR Band	SCS	BandWidth	Arfcn	Freq(MHz)	Modulation	RB	Conducted Power(dBm)	EIRP(dBm)	EIRP(W)
77	30	30	659000	3885	DFT-s-OFDM 16 QAM	36@18	25.45	21.45	0.1396
77	30	30	659000	3885	DFT-s-OFDM 16 QAM	1@1	25.3	21.3	0.1349
77	30	30	659000	3885	DFT-s-OFDM 16 QAM	1@76	25.09	21.09	0.1285
77	30	40	631334	3470.01	DFT-s-OFDM QPSK	50@25	25.64	21.64	0.1459
77	30	40	631334	3470.01	DFT-s-OFDM QPSK	1@1	26.2	22.2	0.1660
77	30	40	631334	3470.01	DFT-s-OFDM QPSK	1@104	25.51	21.51	0.1416
77	30	40	631334	3470.01	DFT-s-OFDM 16 QAM	50@25	24.56	20.56	0.1138
77	30	40	631334	3470.01	DFT-s-OFDM 16 QAM	1@1	25.2	21.2	0.1318
77	30	40	631334	3470.01	DFT-s-OFDM 16 QAM	1@104	24.54	20.54	0.1132
77	30	40	645000	3675	DFT-s-OFDM QPSK	50@25	25.97	21.97	0.1574
77	30	40	645000	3675	DFT-s-OFDM QPSK	1@1	26.02	22.02	0.1592
77	30	40	645000	3675	DFT-s-OFDM QPSK	1@104	25.69	21.69	0.1476
77	30	40	645000	3675	DFT-s-OFDM 16 QAM	50@25	24.95	20.95	0.1245
77	30	40	645000	3675	DFT-s-OFDM 16 QAM	1@1	25.13	21.13	0.1297
77	30	40	645000	3675	DFT-s-OFDM 16 QAM	1@104	24.71	20.71	0.1178
77	30	40	658666	3879.99	DFT-s-OFDM QPSK	50@25	26.21	22.21	0.1663
77	30	40	658666	3879.99	DFT-s-OFDM QPSK	1@1	25.89	21.89	0.1545
77	30	40	658666	3879.99	DFT-s-OFDM QPSK	1@104	25.98	21.98	0.1578
77	30	40	658666	3879.99	DFT-s-OFDM 16 QAM	50@25	25.27	21.27	0.1340
77	30	40	658666	3879.99	DFT-s-OFDM 16 QAM	1@1	24.98	20.98	0.1253
77	30	40	658666	3879.99	DFT-s-OFDM 16 QAM	1@104	25.02	21.02	0.1265
77	30	50	631668	3475.02	DFT-s-OFDM QPSK	64@32	25.69	21.69	0.1476
77	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@1	26.2	22.2	0.1660
77	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@131	25.64	21.64	0.1459
77	30	50	631668	3475.02	DFT-s-OFDM 16 QAM	64@32	24.66	20.66	0.1164
77	30	50	631668	3475.02	DFT-s-OFDM 16 QAM	1@1	25.31	21.31	0.1352
77	30	50	631668	3475.02	DFT-s-OFDM 16 QAM	1@131	24.63	20.63	0.1156
77	30	50	645000	3675	DFT-s-OFDM QPSK	64@32	25.92	21.92	0.1556
77	30	50	645000	3675	DFT-s-OFDM QPSK	1@1	25.7	21.7	0.1479
77	30	50	645000	3675	DFT-s-OFDM QPSK	1@131	25.4	21.4	0.1380
77	30	50	645000	3675	DFT-s-OFDM 16 QAM	64@32	24.88	20.88	0.1225
77	30	50	645000	3675	DFT-s-OFDM 16 QAM	1@1	24.73	20.73	0.1183
77	30	50	645000	3675	DFT-s-OFDM 16 QAM	1@131	24.46	20.46	0.1112
77	30	50	658332	3874.98	DFT-s-OFDM QPSK	64@32	25.97	21.97	0.1574
77	30	50	658332	3874.98	DFT-s-OFDM QPSK	1@1	25.57	21.57	0.1435
77	30	50	658332	3874.98	DFT-s-OFDM QPSK	1@131	25.92	21.92	0.1556
77	30	50	658332	3874.98	DFT-s-OFDM 16 QAM	64@32	25	21	0.1259
77	30	50	658332	3874.98	DFT-s-OFDM 16 QAM	1@1	24.63	20.63	0.1156
77	30	50	658332	3874.98	DFT-s-OFDM 16 QAM	1@131	24.93	20.93	0.1239
77	30	60	632000	3480	DFT-s-OFDM QPSK	81@40	25.61	21.61	0.1449



NR Band	SCS	BandWidth	Arfcn	Freq(MHz)	Modulation	RB	Conducted Power(dBm)	EIRP(dBm)	EIRP(W)
77	30	60	632000	3480	DFT-s-OFDM QPSK	1@1	26.25	22.25	0.1679
77	30	60	632000	3480	DFT-s-OFDM QPSK	1@160	25.75	21.75	0.1496
77	30	60	632000	3480	DFT-s-OFDM 16 QAM	81@40	24.53	20.53	0.1130
77	30	60	632000	3480	DFT-s-OFDM 16 QAM	1@1	25.32	21.32	0.1355
77	30	60	632000	3480	DFT-s-OFDM 16 QAM	1@160	24.7	20.7	0.1175
77	30	60	645000	3675	DFT-s-OFDM QPSK	81@40	25.85	21.85	0.1531
77	30	60	645000	3675	DFT-s-OFDM QPSK	1@1	25.58	21.58	0.1439
77	30	60	645000	3675	DFT-s-OFDM QPSK	1@160	25.51	21.51	0.1416
77	30	60	645000	3675	DFT-s-OFDM 16 QAM	81@40	24.87	20.87	0.1222
77	30	60	645000	3675	DFT-s-OFDM 16 QAM	1@1	24.62	20.62	0.1153
77	30	60	645000	3675	DFT-s-OFDM 16 QAM	1@160	24.56	20.56	0.1138
77	30	60	658000	3870	DFT-s-OFDM QPSK	81@40	25.93	21.93	0.1560
77	30	60	658000	3870	DFT-s-OFDM QPSK	1@1	25.8	21.8	0.1514
77	30	60	658000	3870	DFT-s-OFDM QPSK	1@160	25.91	21.91	0.1552
77	30	60	658000	3870	DFT-s-OFDM 16 QAM	81@40	24.94	20.94	0.1242
77	30	60	658000	3870	DFT-s-OFDM 16 QAM	1@1	24.89	20.89	0.1227
77	30	60	658000	3870	DFT-s-OFDM 16 QAM	1@160	24.96	20.96	0.1247
77	30	70	632334	3485.01	DFT-s-OFDM QPSK	90@45	25.55	21.55	0.1429
77	30	70	632334	3485.01	DFT-s-OFDM QPSK	1@1	26.23	22.23	0.1671
77	30	70	632334	3485.01	DFT-s-OFDM QPSK	1@187	25.45	21.45	0.1396
77	30	70	632334	3485.01	DFT-s-OFDM 16 QAM	90@45	24.46	20.46	0.1112
77	30	70	632334	3485.01	DFT-s-OFDM 16 QAM	1@1	25.23	21.23	0.1327
77	30	70	632334	3485.01	DFT-s-OFDM 16 QAM	1@187	24.5	20.5	0.1122
77	30	70	645000	3675	DFT-s-OFDM QPSK	90@45	25.86	21.86	0.1535
77	30	70	645000	3675	DFT-s-OFDM QPSK	1@1	25.62	21.62	0.1452
77	30	70	645000	3675	DFT-s-OFDM QPSK	1@187	25.57	21.57	0.1435
77	30	70	645000	3675	DFT-s-OFDM 16 QAM	90@45	24.81	20.81	0.1205
77	30	70	645000	3675	DFT-s-OFDM 16 QAM	1@1	24.77	20.77	0.1194
77	30	70	645000	3675	DFT-s-OFDM 16 QAM	1@187	24.65	20.65	0.1161
77	30	70	657666	3864.99	DFT-s-OFDM QPSK	90@45	25.75	21.75	0.1496
77	30	70	657666	3864.99	DFT-s-OFDM QPSK	1@1	26.1	22.1	0.1622
77	30	70	657666	3864.99	DFT-s-OFDM QPSK	1@187	25.74	21.74	0.1493
77	30	70	657666	3864.99	DFT-s-OFDM 16 QAM	90@45	24.75	20.75	0.1189
77	30	70	657666	3864.99	DFT-s-OFDM 16 QAM	1@1	25.23	21.23	0.1327
77	30	70	657666	3864.99	DFT-s-OFDM 16 QAM	1@187	24.77	20.77	0.1194
77	30	80	632668	3490.02	DFT-s-OFDM QPSK	108@54	25.55	21.55	0.1429
77	30	80	632668	3490.02	DFT-s-OFDM QPSK	1@1	26.22	22.22	0.1667
77	30	80	632668	3490.02	DFT-s-OFDM QPSK	1@215	25.3	21.3	0.1349
77	30	80	632668	3490.02	DFT-s-OFDM 16 QAM	108@54	24.52	20.52	0.1127
77	30	80	632668	3490.02	DFT-s-OFDM 16 QAM	1@1	25.28	21.28	0.1343



NR Band	SCS	BandWidth	Arfcn	Freq(MHz)	Modulation	RB	Conducted Power(dBm)	EIRP(dBm)	EIRP(W)
77	30	80	632668	3490.02	DFT-s-OFDM 16 QAM	1@215	24.33	20.33	0.1079
77	30	80	645000	3675	DFT-s-OFDM QPSK	108@54	25.79	21.79	0.1510
77	30	80	645000	3675	DFT-s-OFDM QPSK	1@1	25.65	21.65	0.1462
77	30	80	645000	3675	DFT-s-OFDM QPSK	1@215	25.66	21.66	0.1466
77	30	80	645000	3675	DFT-s-OFDM 16 QAM	108@54	24.78	20.78	0.1197
77	30	80	645000	3675	DFT-s-OFDM 16 QAM	1@1	24.68	20.68	0.1169
77	30	80	645000	3675	DFT-s-OFDM 16 QAM	1@215	24.72	20.72	0.1180
77	30	80	657332	3859.98	DFT-s-OFDM QPSK	108@54	25.74	21.74	0.1493
77	30	80	657332	3859.98	DFT-s-OFDM QPSK	1@1	26.26	22.26	0.1683
77	30	80	657332	3859.98	DFT-s-OFDM QPSK	1@215	25.77	21.77	0.1503
77	30	80	657332	3859.98	DFT-s-OFDM 16 QAM	108@54	24.78	20.78	0.1197
77	30	80	657332	3859.98	DFT-s-OFDM 16 QAM	1@1	25.37	21.37	0.1371
77	30	80	657332	3859.98	DFT-s-OFDM 16 QAM	1@215	24.84	20.84	0.1213
77	30	90	633000	3495	DFT-s-OFDM QPSK	120@60	25.43	21.43	0.1390
77	30	90	633000	3495	DFT-s-OFDM QPSK	1@1	26.18	22.18	0.1652
77	30	90	633000	3495	DFT-s-OFDM QPSK	1@243	25.36	21.36	0.1368
77	30	90	633000	3495	DFT-s-OFDM 16 QAM	120@60	24.38	20.38	0.1091
77	30	90	633000	3495	DFT-s-OFDM 16 QAM	1@1	25.2	21.2	0.1318
77	30	90	633000	3495	DFT-s-OFDM 16 QAM	1@243	24.39	20.39	0.1094
77	30	90	645000	3675	DFT-s-OFDM QPSK	120@60	25.68	21.68	0.1472
77	30	90	645000	3675	DFT-s-OFDM QPSK	1@1	25.68	21.68	0.1472
77	30	90	645000	3675	DFT-s-OFDM QPSK	1@243	25.77	21.77	0.1503
77	30	90	645000	3675	DFT-s-OFDM 16 QAM	120@60	24.64	20.64	0.1159
77	30	90	645000	3675	DFT-s-OFDM 16 QAM	1@1	24.77	20.77	0.1194
77	30	90	645000	3675	DFT-s-OFDM 16 QAM	1@243	24.8	20.8	0.1202
77	30	90	657000	3855	DFT-s-OFDM QPSK	120@60	25.77	21.77	0.1503
77	30	90	657000	3855	DFT-s-OFDM QPSK	1@1	26.04	22.04	0.1600
77	30	90	657000	3855	DFT-s-OFDM QPSK	1@243	25.87	21.87	0.1538
77	30	90	657000	3855	DFT-s-OFDM 16 QAM	120@60	24.85	20.85	0.1216
77	30	90	657000	3855	DFT-s-OFDM 16 QAM	1@1	25.17	21.17	0.1309
77	30	90	657000	3855	DFT-s-OFDM 16 QAM	1@243	24.86	20.86	0.1219
77	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	135@67	26.31	22.31	0.1702
77	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	26.42	22.42	0.1746
77	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@271	26.31	22.31	0.1702
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	135@67	25.99	21.99	0.1581
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.96	21.96	0.1570
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@271	25.98	21.98	0.1578
77	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	135@67	24.52	20.52	0.1127
77	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.55	20.55	0.1135
77	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	1@271	24.71	20.71	0.1178



NR Band	SCS	BandWidth	Arfcn	Freq(MHz)	Modulation	RB	Conducted Power(dBm)	EIRP(dBm)	EIRP(W)
77	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	135@67	23.05	19.05	0.0804
77	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	23.03	19.03	0.0800
77	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	1@271	23.19	19.19	0.0830
77	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	135@67	21.57	17.57	0.0571
77	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	21.38	17.38	0.0547
77	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	1@271	21.53	17.53	0.0566
77	30	100	633334	3500.01	CP-OFDM QPSK	137@68	23.85	19.85	0.0966
77	30	100	633334	3500.01	CP-OFDM QPSK	1@1	23.88	19.88	0.0973
77	30	100	633334	3500.01	CP-OFDM QPSK	1@271	23.98	19.98	0.0995



Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (Hz)	Verdict	Environment
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	16.2	PASS	NV
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	12.3	PASS	LV
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	16.4	PASS	HV
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	11.8	PASS	-30°C
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	11.2	PASS	-20°C
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	18.4	PASS	-10°C
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	11.1	PASS	0°C
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	16.2	PASS	10°C
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	18.9	PASS	20°C
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	13.5	PASS	30°C
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	11.7	PASS	40°C
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	14.5	PASS	50°C

|MAX(Δf)| = 18.9Hz

Frequency Stability	Frequency (MHz)	Limit Line	Result
fL - MAX(Δf)	3450.8789811	≥ 3450 MHz	PASS
fH + MAX(Δf)	3549.8647189	≤ 3550 MHz	

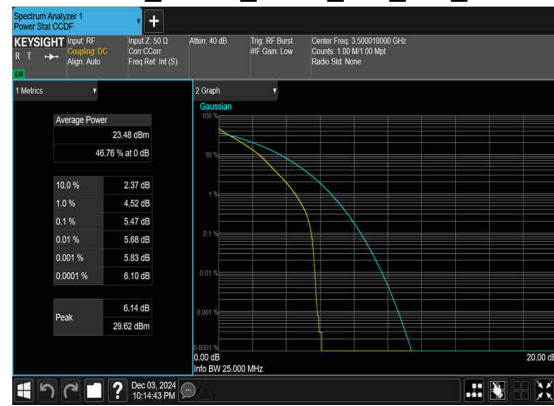
Peak to Average Ratio

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
77	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	50@0	4.03	13	PASS
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	5.47	13	PASS

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



N77(20M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



**Occupied Bandwidth**

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	18.238	19.76
77	30	20	633334	3500.01	CP-OFDM 16 QAM	51@0	18.224	19.49
77	30	20	633334	3500.01	CP-OFDM 64 QAM	51@0	18.214	19.59
77	30	20	633334	3500.01	CP-OFDM 256 QAM	51@0	18.219	19.24
77	30	30	633334	3500.01	CP-OFDM QPSK	78@0	27.8	29.49
77	30	30	633334	3500.01	CP-OFDM 16 QAM	78@0	27.839	29.25
77	30	30	633334	3500.01	CP-OFDM 64 QAM	78@0	27.87	29.42
77	30	30	633334	3500.01	CP-OFDM 256 QAM	78@0	27.844	29.48
77	30	40	633334	3500.01	CP-OFDM QPSK	106@0	37.796	39.59
77	30	40	633334	3500.01	CP-OFDM 16 QAM	106@0	37.829	39.74
77	30	40	633334	3500.01	CP-OFDM 64 QAM	106@0	37.883	39.24
77	30	40	633334	3500.01	CP-OFDM 256 QAM	106@0	37.899	39.2
77	30	50	633334	3500.01	CP-OFDM QPSK	133@0	47.56	49.06
77	30	50	633334	3500.01	CP-OFDM 16 QAM	133@0	47.551	49.25
77	30	50	633334	3500.01	CP-OFDM 64 QAM	133@0	47.539	49.32
77	30	50	633334	3500.01	CP-OFDM 256 QAM	133@0	47.457	49.39
77	30	60	633334	3500.01	CP-OFDM QPSK	162@0	57.769	59.76
77	30	60	633334	3500.01	CP-OFDM 16 QAM	162@0	57.994	59.68
77	30	60	633334	3500.01	CP-OFDM 64 QAM	162@0	57.91	60.09
77	30	60	633334	3500.01	CP-OFDM 256 QAM	162@0	57.996	59.99
77	30	70	633334	3500.01	CP-OFDM QPSK	189@0	67.519	69.7
77	30	70	633334	3500.01	CP-OFDM 16 QAM	189@0	67.384	69.73
77	30	70	633334	3500.01	CP-OFDM 64 QAM	189@0	67.48	69.83
77	30	70	633334	3500.01	CP-OFDM 256 QAM	189@0	67.426	69.72



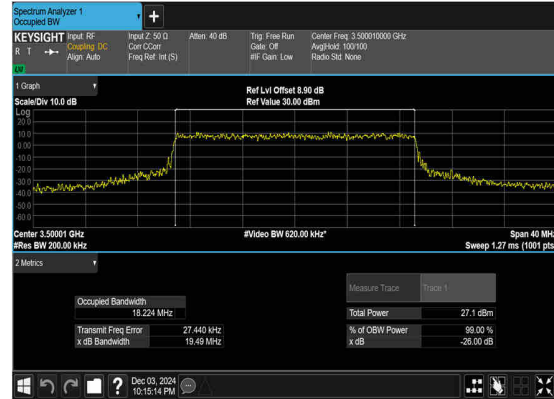
77	30	80	633334	3500.01	CP-OFDM QPSK	217@0	77.481	80.05
77	30	80	633334	3500.01	CP-OFDM 16 QAM	217@0	77.518	80.25
77	30	80	633334	3500.01	CP-OFDM 64 QAM	217@0	77.565	80.06
77	30	80	633334	3500.01	CP-OFDM 256 QAM	217@0	77.477	80.35
77	30	90	633334	3500.01	CP-OFDM QPSK	245@0	87.621	90.4
77	30	90	633334	3500.01	CP-OFDM 16 QAM	245@0	87.643	90.2
77	30	90	633334	3500.01	CP-OFDM 64 QAM	245@0	87.51	90.17
77	30	90	633334	3500.01	CP-OFDM 256 QAM	245@0	87.39	90.26
77	30	100	633334	3500.01	CP-OFDM QPSK	273@0	97.524	100.6
77	30	100	633334	3500.01	CP-OFDM 16 QAM	273@0	97.566	100.6
77	30	100	633334	3500.01	CP-OFDM 64 QAM	273@0	97.543	100.6
77	30	100	633334	3500.01	CP-OFDM 256 QAM	273@0	97.526	100.6



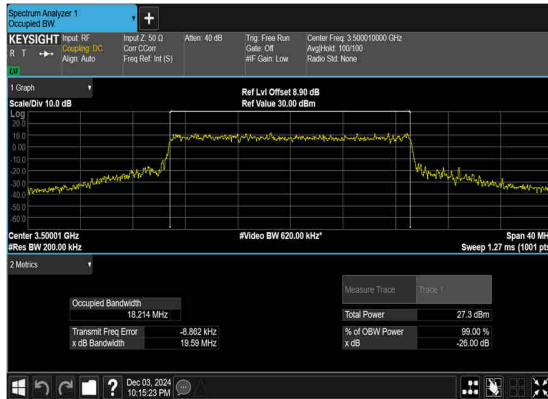
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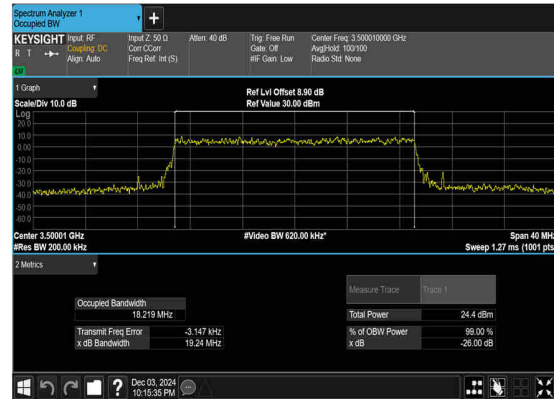
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QAM_Outer_Full_Mid_CH



N77(20M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



N77(20M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH





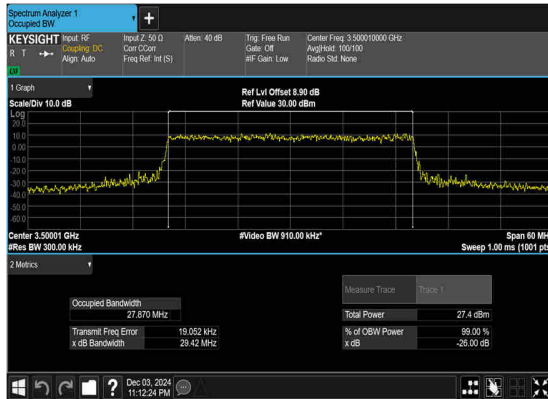
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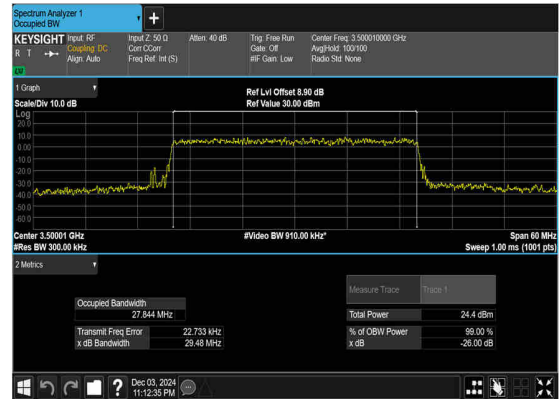
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N77(30M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

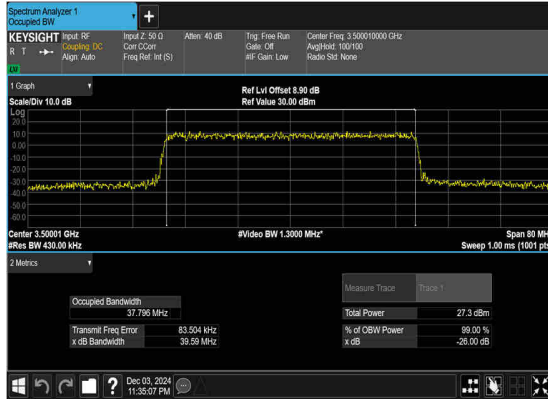


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QAM_Outer_Full_Mid_CH

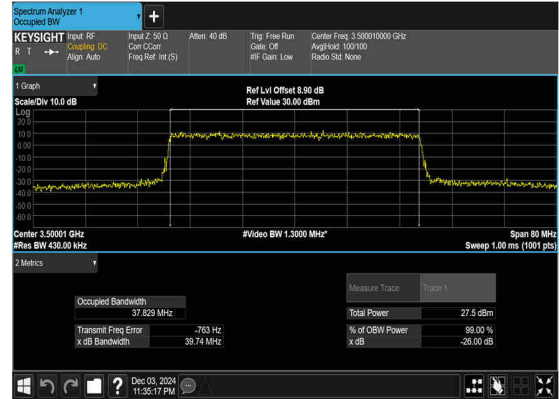




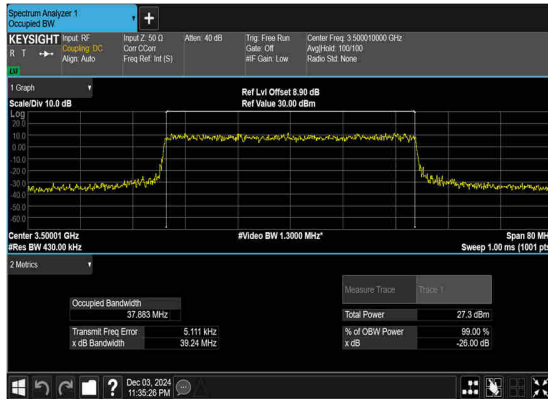
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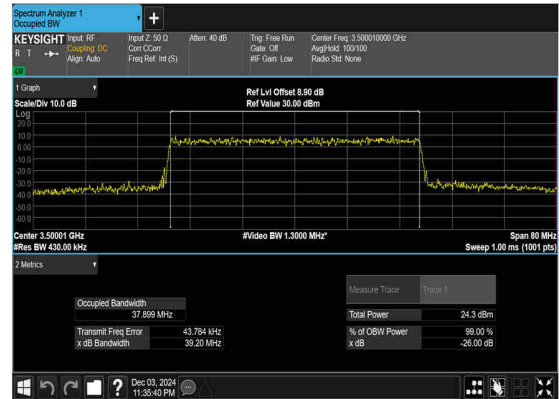
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QAM_Outer_Full_Mid_CH



N77(40M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

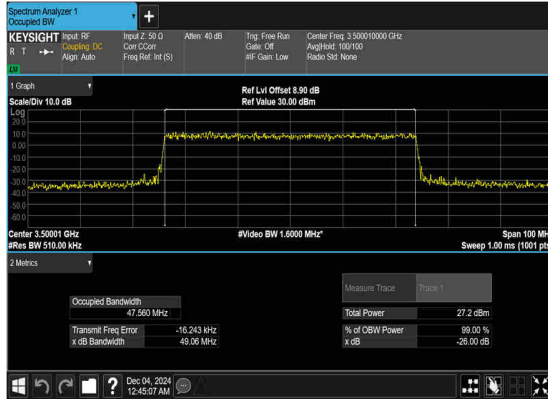


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QAM_Outer_Full_Mid_CH





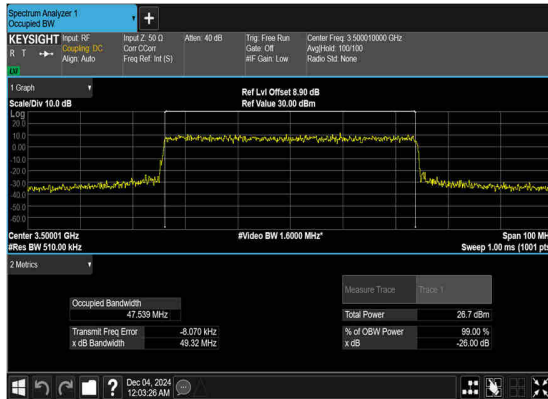
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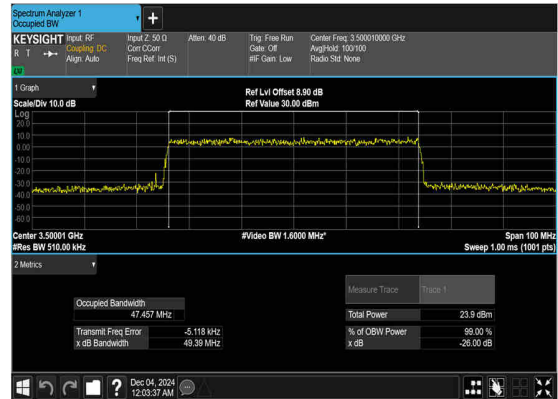
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N77(50M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

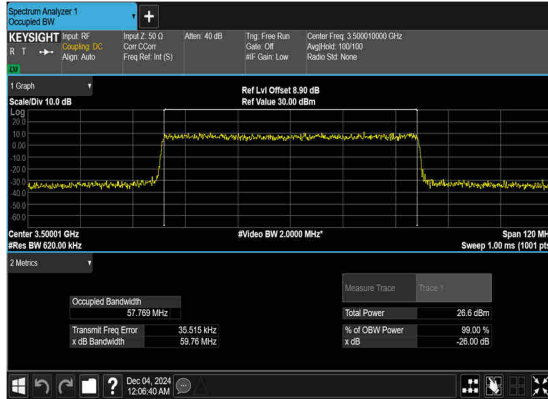


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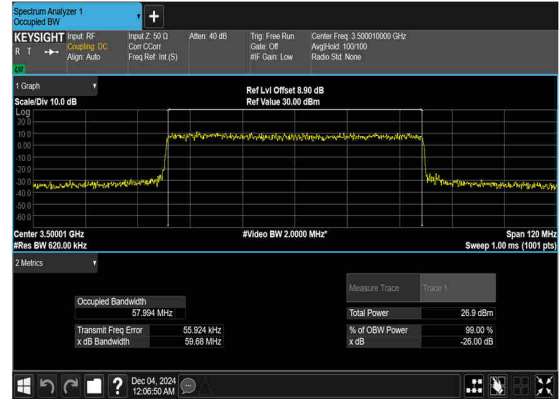




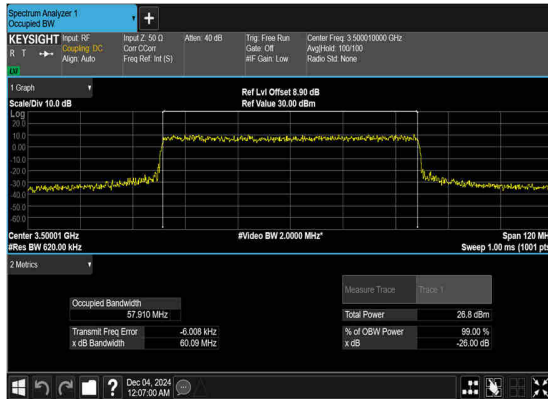
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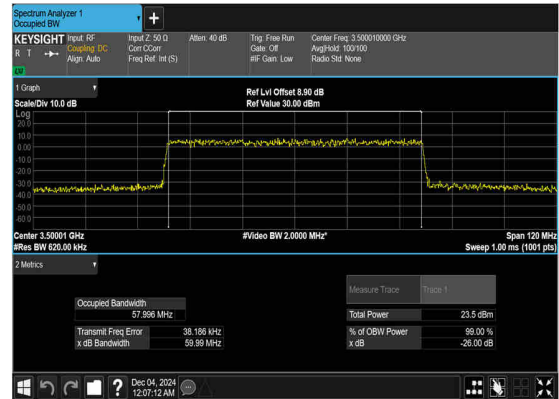
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QAM_Outer_Full_Mid_CH



N77(60M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



N77(60M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

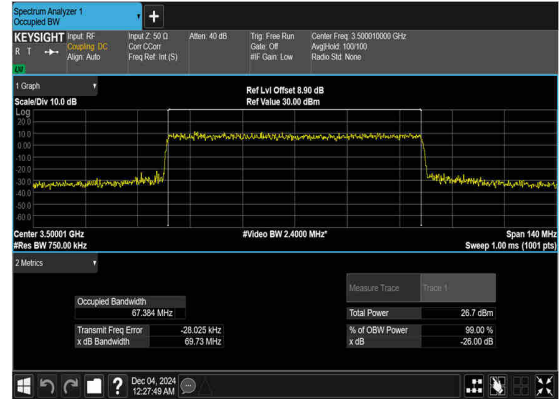




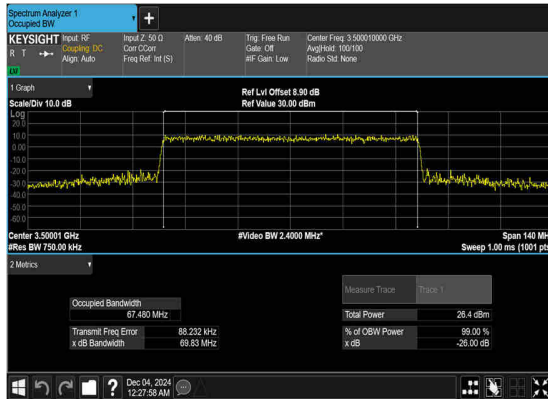
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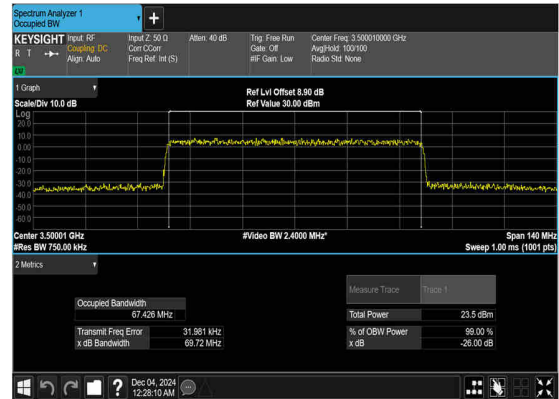
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QAM_Outer_Full_Mid_CH



N77(70M)_CP-OFDM_64
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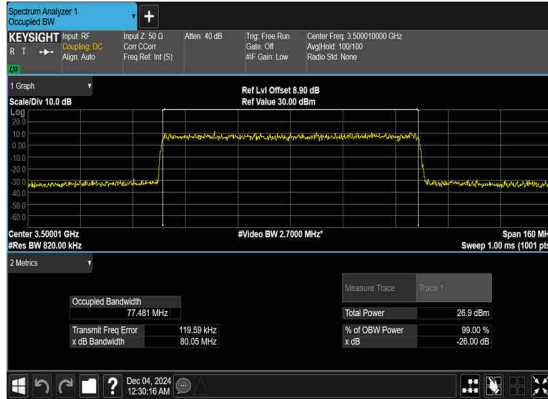


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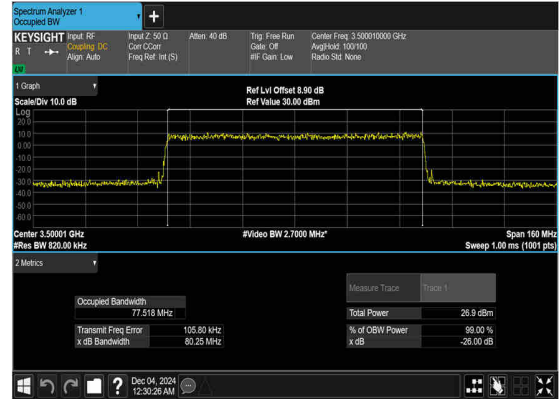




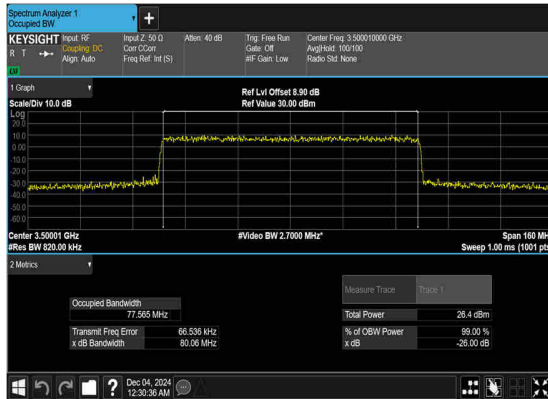
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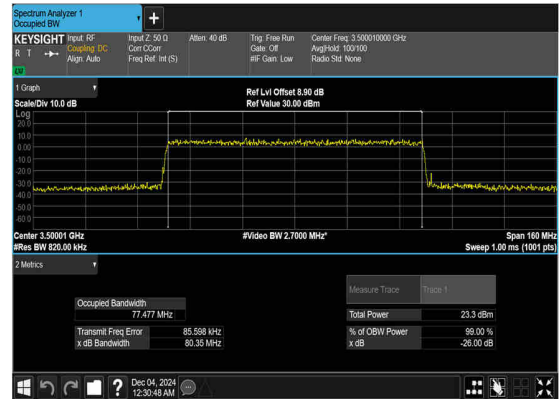
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QAM_Outer_Full_Mid_CH



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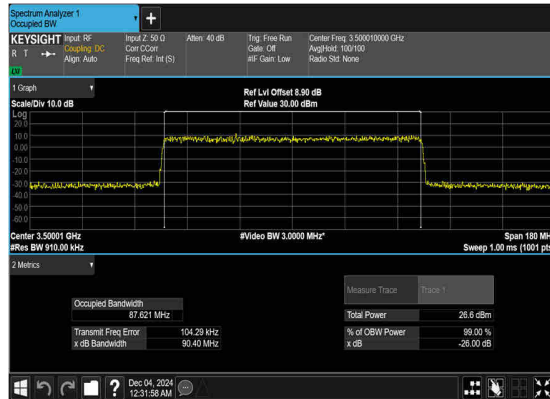


N77(80M)_CP-OFDM_256
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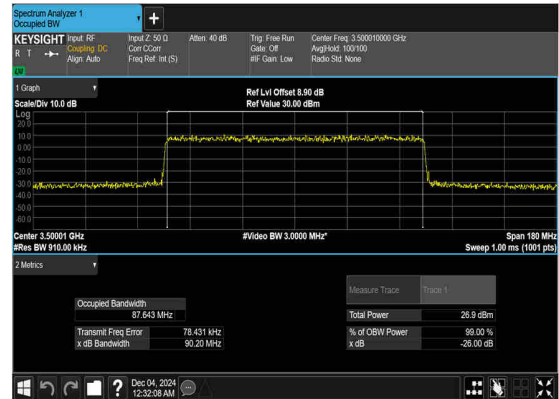




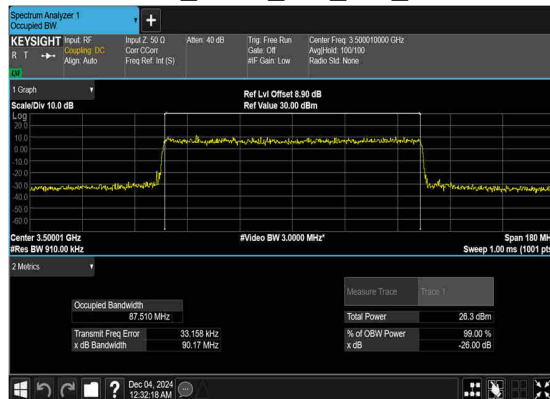
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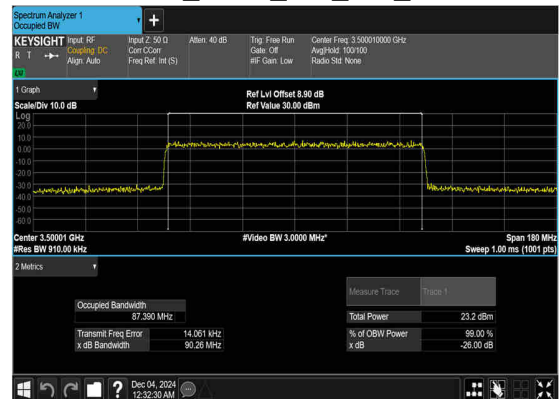
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QAM_Outer_Full_Mid_CH



N77(90M)_CP-OFDM_64
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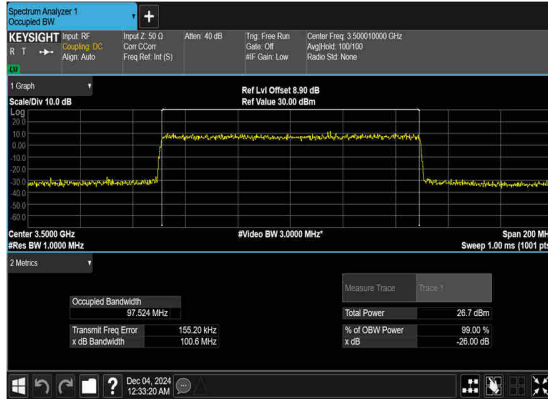


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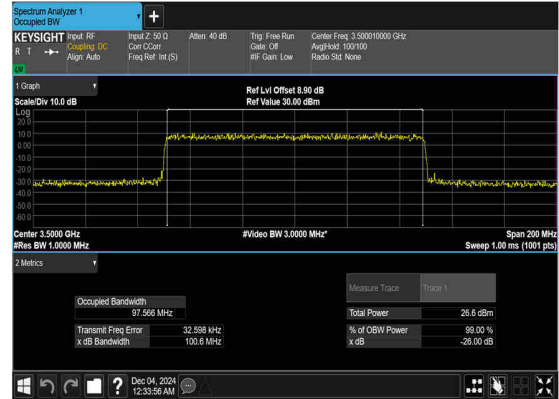




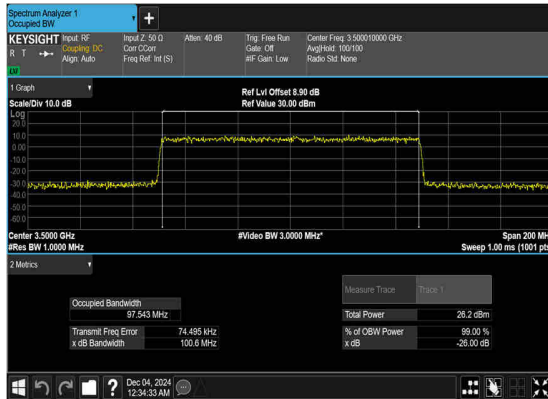
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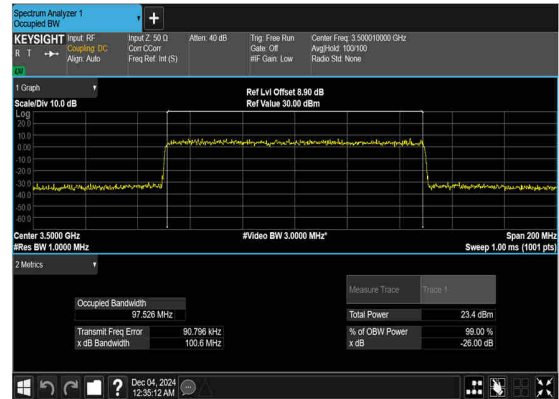
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QAM_Outer_Full_Mid_CH



N77(100M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



N77(100M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH





Conducted Spurious Emissions

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
77	30	20	630668	3460.02	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	20	630668	3460.02	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	20	630668	3460.02	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	20	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	20	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	20	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	20	636000	3540.0	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	20	636000	3540.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	20	636000	3540.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	20	636000	3540.0	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	20	636000	3540.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	20	636000	3540.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	60	632000	3480.0	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	60	632000	3480.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	60	632000	3480.0	DFT-s-OFDM BPSK	1@0	see graph	PASS



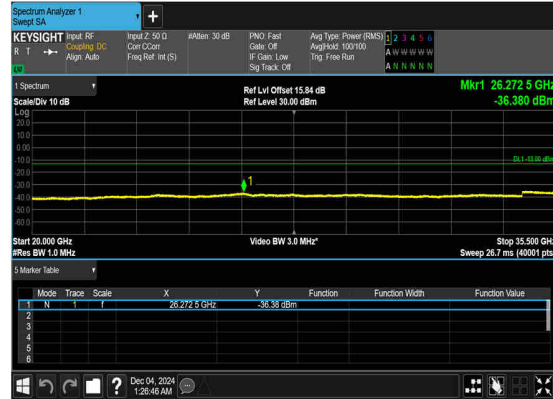
77	30	60	632000	3480.0	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	60	632000	3480.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	60	632000	3480.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	60	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	60	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	60	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	60	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	60	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	60	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	60	634666	3519.99	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	60	634666	3519.99	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	60	634666	3519.99	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	60	634666	3519.99	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	60	634666	3519.99	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	60	634666	3519.99	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	100	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	100	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	100	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS



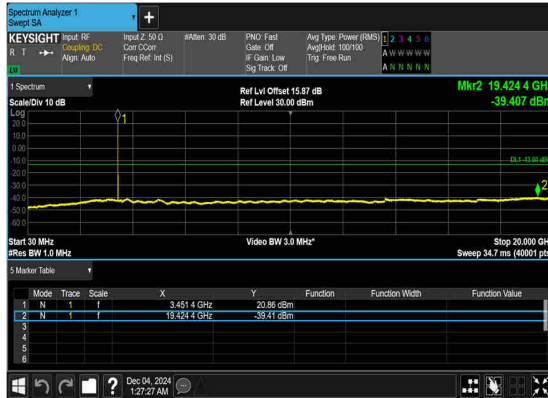
N77(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



N77(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



N77(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N77(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH

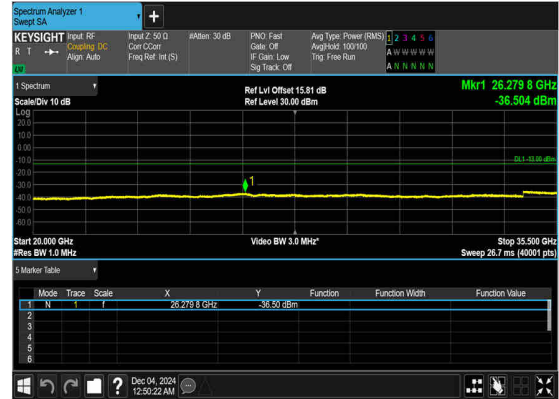




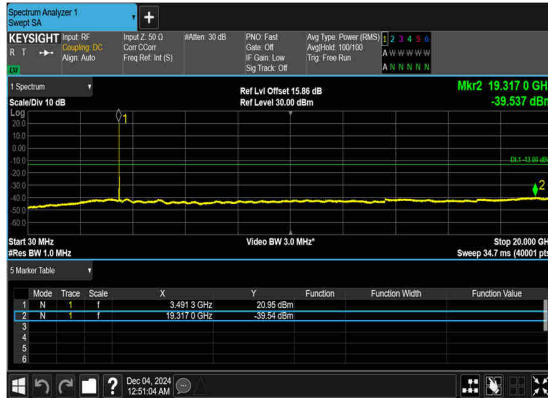
N77(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



N77(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



N77(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH

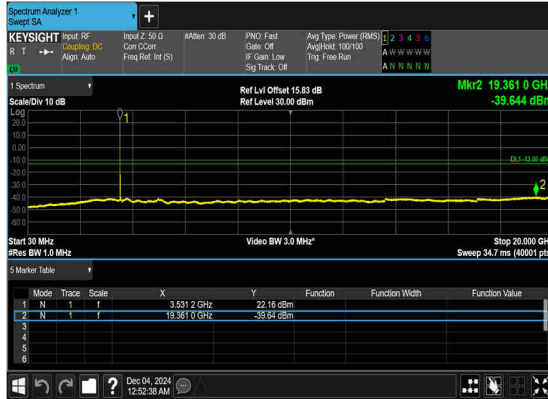


N77(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH

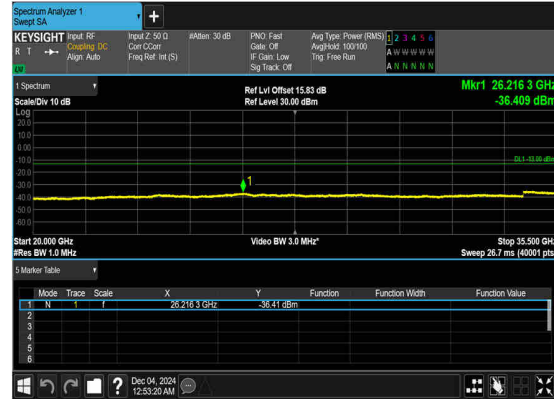




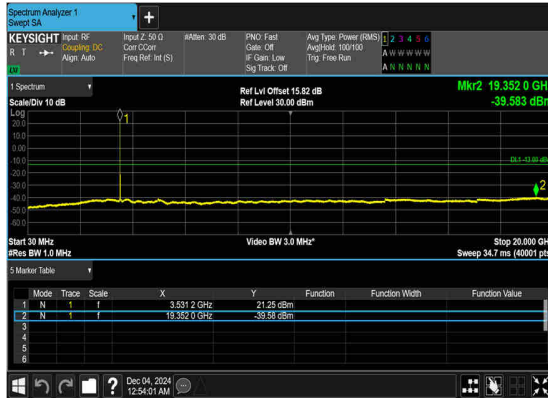
N77(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



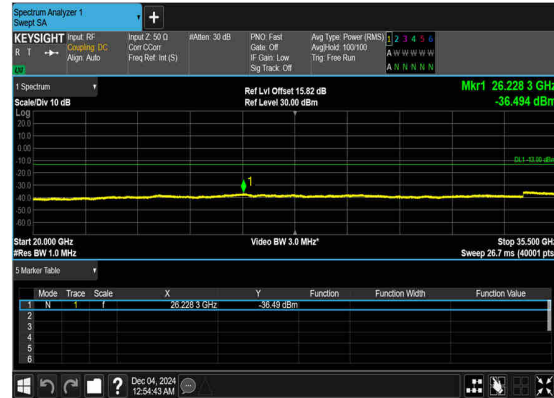
N77(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



N77(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH



N77(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH

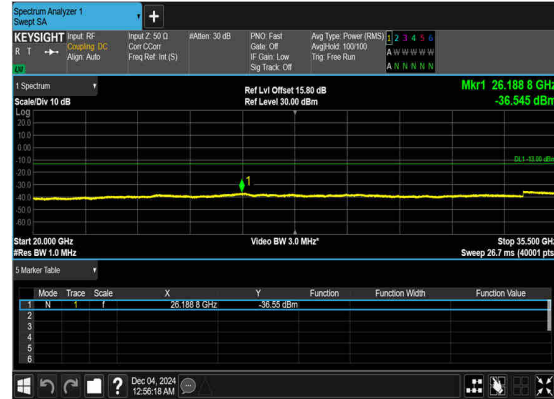




N77(60M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



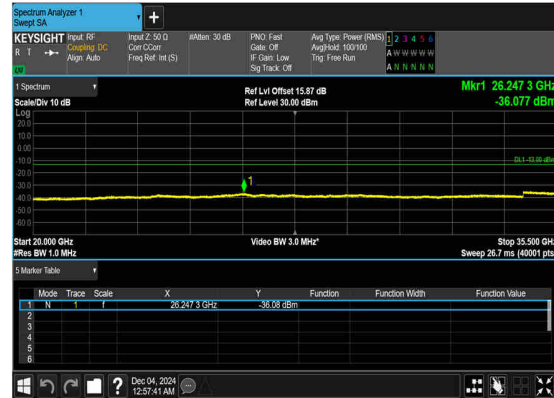
N77(60M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



N77(60M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N77(60M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH

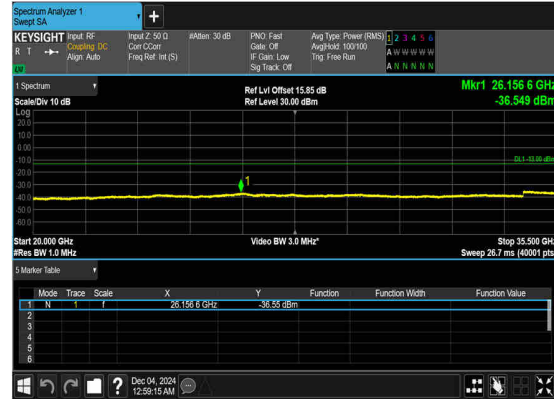




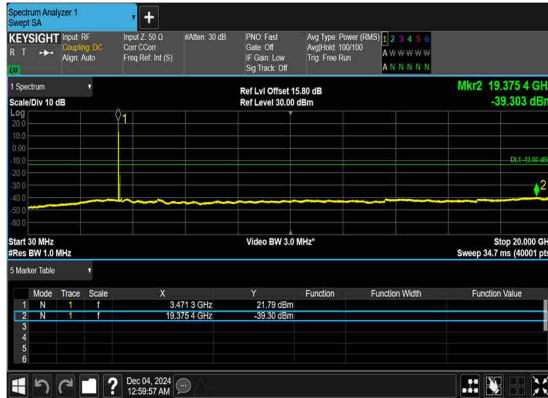
N77(60M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



N77(60M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



N77(60M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH

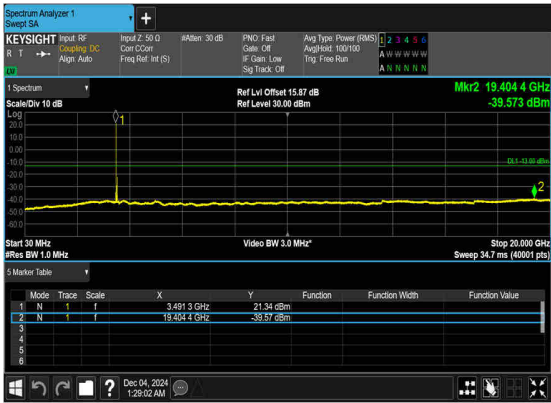


N77(60M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH

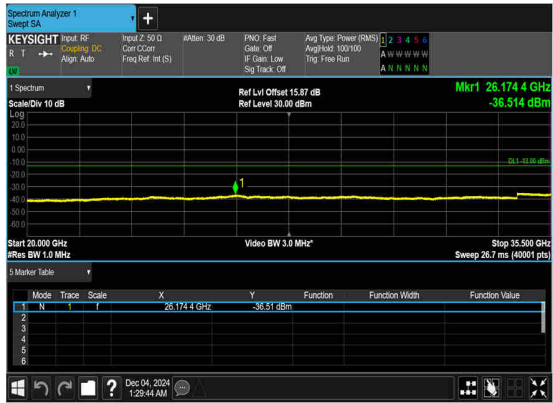




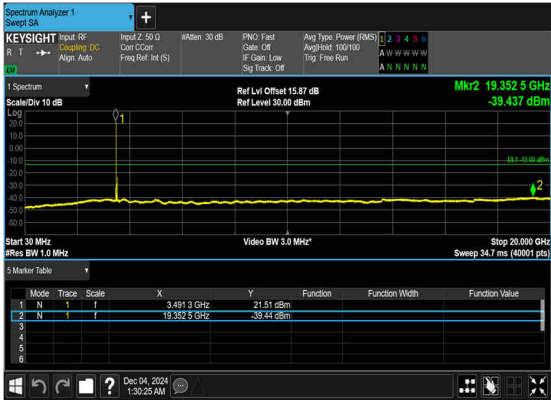
N77(60M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



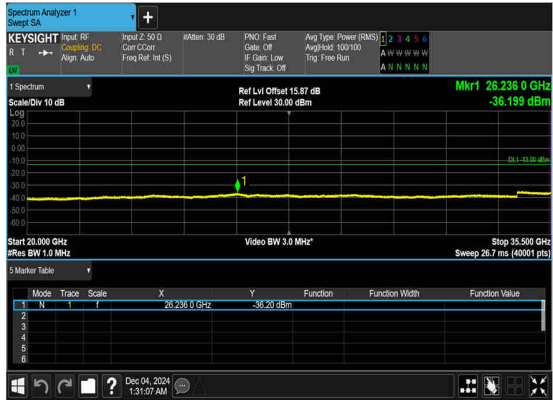
N77(60M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



N77(60M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



N77(60M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH

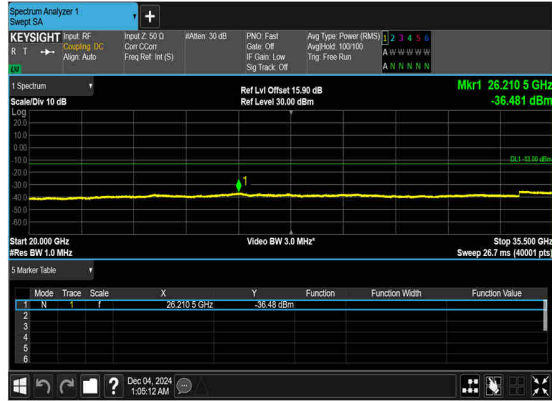




N77(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



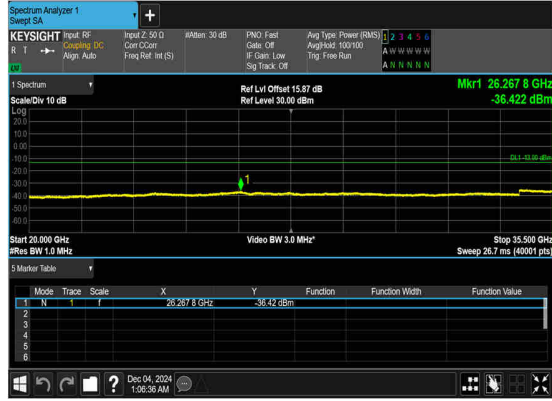
N77(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



N77(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



N77(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH

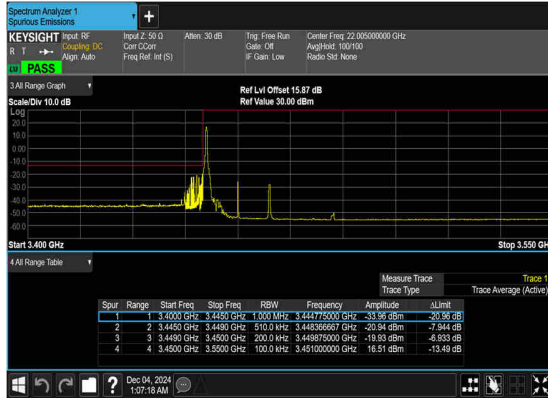


**Conducted Band Edge**

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
77	30	20	630668	3460.02	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	20	630668	3460.02	DFT-s-OFDM BPSK	50@0	see graph	PASS
77	30	20	630668	3460.02	DFT-s-OFDM QPSK	50@0	see graph	PASS
77	30	20	636000	3540.0	DFT-s-OFDM BPSK	1@50	see graph	PASS
77	30	20	636000	3540.0	DFT-s-OFDM QPSK	1@50	see graph	PASS
77	30	20	636000	3540.0	DFT-s-OFDM BPSK	50@0	see graph	PASS
77	30	20	636000	3540.0	DFT-s-OFDM QPSK	50@0	see graph	PASS
77	30	60	632000	3480.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	60	632000	3480.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	60	632000	3480.0	DFT-s-OFDM BPSK	162@0	see graph	PASS
77	30	60	632000	3480.0	DFT-s-OFDM QPSK	162@0	see graph	PASS
77	30	60	634666	3519.99	DFT-s-OFDM BPSK	1@161	see graph	PASS
77	30	60	634666	3519.99	DFT-s-OFDM QPSK	1@161	see graph	PASS
77	30	60	634666	3519.99	DFT-s-OFDM BPSK	162@0	see graph	PASS
77	30	60	634666	3519.99	DFT-s-OFDM QPSK	162@0	see graph	PASS
77	30	100	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	100	633334	3500.01	DFT-s-OFDM BPSK	1@272	see graph	PASS
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@272	see graph	PASS
77	30	100	633334	3500.01	DFT-s-OFDM BPSK	270@0	see graph	PASS
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	270@0	see graph	PASS



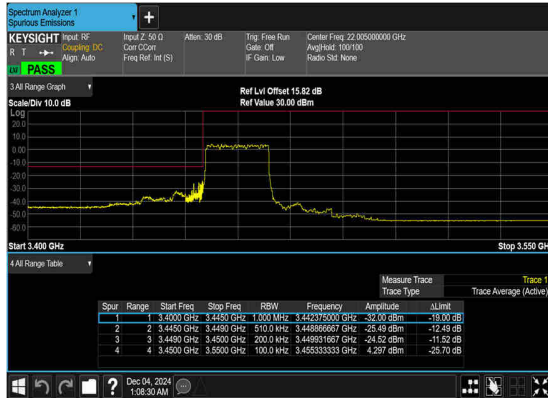
N77(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



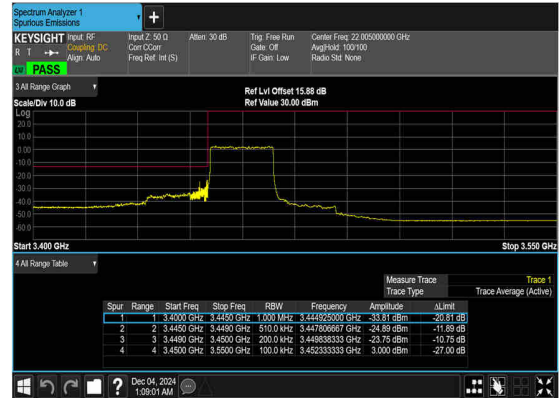
N77(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N77(20M)_DFT-s-
OFDM_BPSK_Outer_Full_Low_CH



N77(20M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH





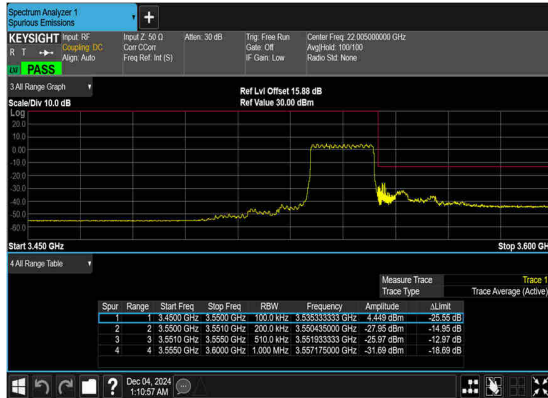
N77(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_High_CH



N77(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_High_CH



N77(20M)_DFT-s-
OFDM_BPSK_Outer_Full_High_CH

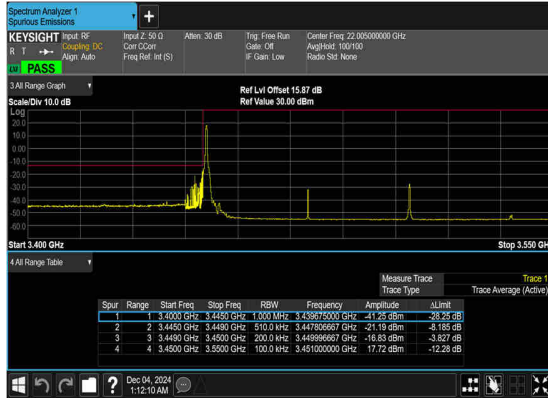


N77(20M)_DFT-s-
OFDM_QPSK_Outer_Full_High_CH





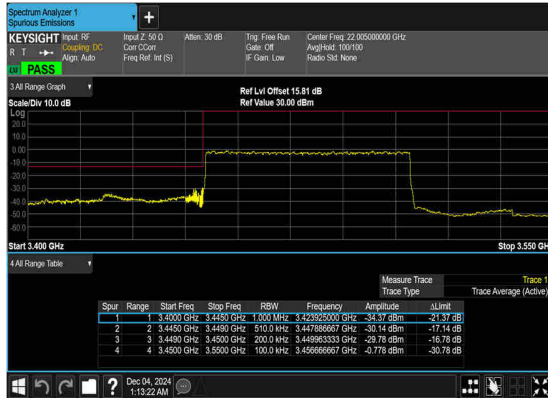
N77(60M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



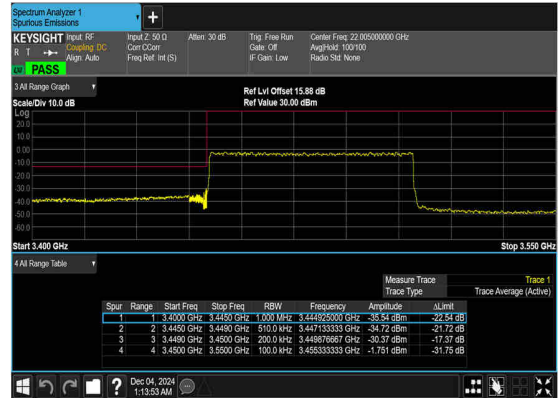
N77(60M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N77(60M)_DFT-s-
OFDM_BPSK_Outer_Full_Low_CH



N77(60M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH





N77(60M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_High_CH



N77(60M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_High_CH



N77(60M)_DFT-s-
OFDM_BPSK_Outer_Full_High_CH



N77(60M)_DFT-s-
OFDM_QPSK_Outer_Full_High_CH





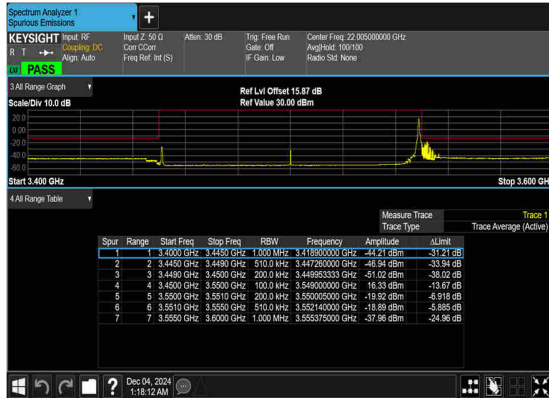
N77(100M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



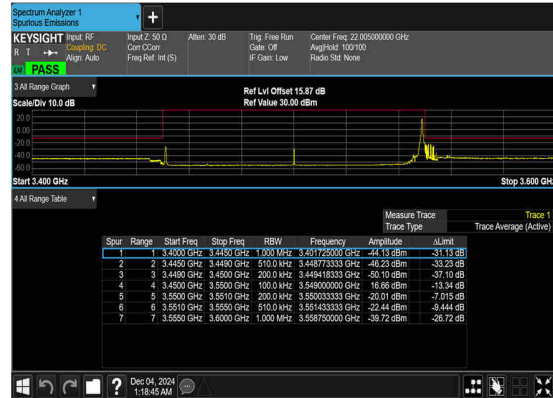
N77(100M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



N77(100M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_Mid_CH



N77(100M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_Mid_CH





N77(100M)_DFT-s-
OFDM_BPSK_Outer_Full_Mid_CH



N77(100M)_DFT-s-
OFDM_QPSK_Outer_Full_Mid_CH

