



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 O (3700-3980MHz)
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.

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG4N0543K	Rev. 01	Initial issue of report	Feb. 24, 2025
FG4N0543K	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	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+10log ₁₀ (P[Watts])	PASS	-
3.8	§2.1051 §27.53(l)(2)	Conducted Spurious Emission (5G NR n77, n78)	< 43+10log ₁₀ (P[Watts])	PASS	-
3.9	§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+10log ₁₀ (P[Watts])	PASS	Under limit 34.40 dB at 11640.00 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

Standards-related Product Specification	
Tx/Rx Frequency	5G NR n77: 3700 MHz ~ 3980 MHz 5G NR n78: 3700 MHz ~ 3800 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/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, n78 covered by n77.
3. 5G NR n77 support UL MIMO mode, only the worst test data of Ant(2+5) is shown in the report.
4. 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.
5. The device supports HPUE mode for 5G NR n77/n78.
6. All the supported EN-DC combinations are verified conducted power, only the EN-DC combination with highest power are shown in the report.
7. The EN-DC mode combination could be referred to the product spec.
8. 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.

1.5 Modification of EUT

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

1.6 Maximum EIRP and Emission Designator

5G NR n77 SA		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	3710.01 ~ 3969.99	0.1754	18M2G7D	0.1449	18M3W7D
30	3715.02 ~ 3964.98	0.1754	27M8G7D	0.1531	27M9W7D
40	3720.00 ~ 3960.00	0.1766	37M8G7D	0.1589	37M9W7D
50	3725.01 ~ 3954.99	0.1782	47M5G7D	0.1419	47M7W7D
60	3730.02 ~ 3949.98	0.1782	57M9G7D	0.1426	58M0W7D
70	3735.00 ~ 3945.00	0.1750	67M4G7D	0.1413	67M5W7D
80	3740.01 ~ 3939.99	0.1754	77M6G7D	0.1393	77M7W7D
90	3745.02 ~ 3934.98	0.1656	87M4G7D	0.1340	87M6W7D
100	3750.00 ~ 3930.00	0.1786	97M5G7D	0.1435	97M7W7D



5G NR n78 SA		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	3710.01 ~ 3789.99	0.1706	18M2G7D	0.1355	18M3W7D
30	3715.02 ~ 3784.98	0.1611	27M8G7D	0.1294	27M9W7D
40	3720.00 ~ 3780.00	0.1714	37M8G7D	0.1368	37M9W7D
50	3725.01 ~ 3774.99	0.1660	47M5G7D	0.1352	47M7W7D
60	3730.02 ~ 3769.98	0.1663	57M9G7D	0.1315	58M0W7D
70	3735.00 ~ 3765.00	0.1652	67M4G7D	0.1330	67M5W7D
80	3740.01 ~ 3759.99	0.1607	77M6G7D	0.1300	77M7W7D
90	3745.02 ~ 3754.98	0.1607	87M4G7D	0.1294	87M6W7D
100	3750.00 ~ 3750.00	0.1734	97M5G7D	0.1439	97M7W7D

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	3710.01 ~ 3969.99	0.1368	18M2G7D	0.1279	18M2W7D
30	3715.02 ~ 3964.98	0.1393	27M9G7D	0.1312	27M9W7D
40	3720.00 ~ 3960.00	0.1416	37M8G7D	0.1330	38M0W7D
50	3725.01 ~ 3954.99	0.1346	47M5G7D	0.1262	47M6W7D
60	3730.02 ~ 3949.98	0.1337	57M8G7D	0.1233	58M0W7D
70	3735.00 ~ 3945.00	0.1327	67M6G7D	0.1242	68M0W7D
80	3740.01 ~ 3939.99	0.1306	77M6G7D	0.1227	77M6W7D
90	3745.02 ~ 3934.98	0.1312	87M6G7D	0.1227	87M7W7D
100	3750.00 ~ 3930.00	0.1432	97M4G7D	0.1312	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	3710.01 ~ 3789.99	0.1279	18M2G7D	0.1159	18M2W7D
30	3715.02 ~ 3784.98	0.1297	27M9G7D	0.1183	27M9W7D
40	3720.00 ~ 3780.00	0.1303	37M8G7D	0.1213	38M0W7D
50	3725.01 ~ 3774.99	0.1222	47M5G7D	0.1135	47M6W7D
60	3730.02 ~ 3769.98	0.1239	57M8G7D	0.1151	58M0W7D
70	3735.00 ~ 3765.00	0.1227	67M6G7D	0.1143	68M0W7D
80	3740.01 ~ 3759.99	0.1222	77M6G7D	0.1135	77M6W7D
90	3745.02 ~ 3754.98	0.1236	87M6G7D	0.1148	87M7W7D
100	3750.00 ~ 3750.00	0.1349	97M4G7D	0.1148	97M6W7D

Note:

1. 5G NR Band n77 overlaps the entire frequency range of Band n78, and n77 power > n78 power, therefore the conducted test results of n77 provided in this report cover n78.
2. All modulations have been tested, and only the worst test results of PSK & QAM are shown in the report.

1.7 Testing Location

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 Applicable Standards

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

- ♦ 47 CFR Part 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.

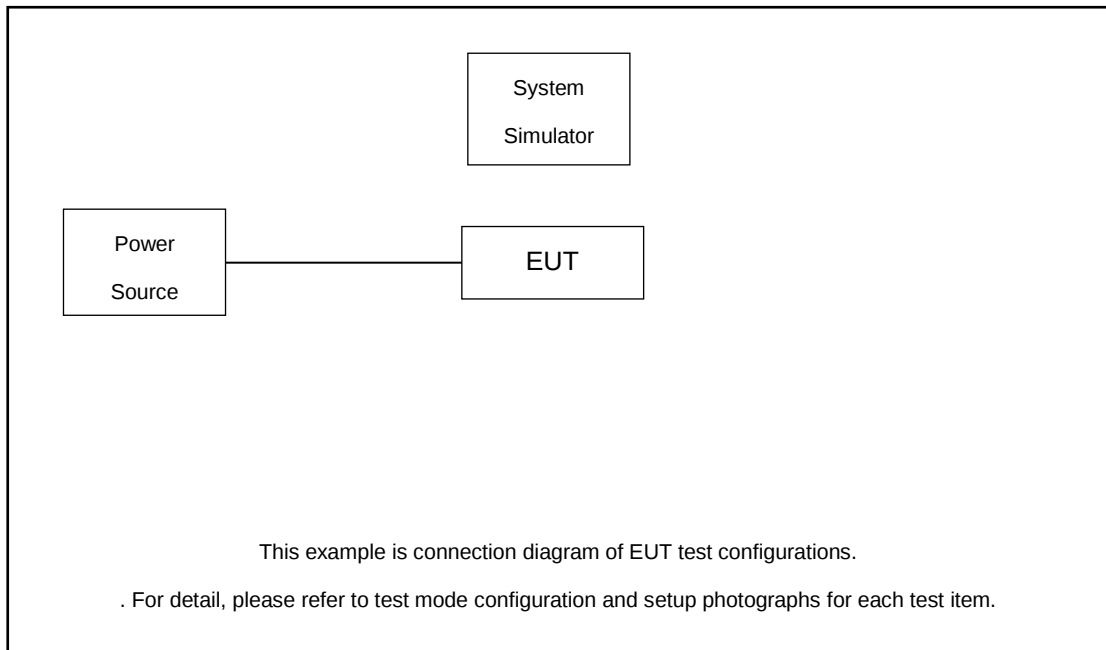
For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z for Adapter mode, Cradle mode and Earphone mode. The worst cases (Y plane-Adapter mode) were recorded in this report.

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		
		20	30	40	50	60	70	80	90	100	PI/2 BPSK	QPSK	16QAM	64QAM	256 QAM	1	Partial	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	v	v	
	n78	v	v	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		
26dB and 99% Bandwidth	n77	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	
Conducted Spurious Emission	n77	v				v				v	v	v				v			v	v	v	
Frequency Stability	n77	v										v						v		v		
E.I.R.P	n77	v	v	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	v	v	
Radiated Spurious Emission	n77	Worst Case																	v	v	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. 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.	DC Power Supply	GW	GPS-3030D	N/A	N/A	Unshielded, 1.8 m
2.	LTE Base Station	Anritsu	MT8821C	N/A	N/A	Unshielded, 1.8 m
3.	NR Base Station	Anritsu	MT8000A	N/A	N/A	Unshielded, 1.8 m
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 between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

The spectrum analyzer offset is derived from RF cable loss.

Offset = RF cable loss.

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

Example :

Offset(dB) = RF cable loss(dB).

= 8.9 (dB)

2.5 Frequency List of Low/Middle/High Channels

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



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
20	Channel	647334	650000	652666
	Frequency	3710.01	3750	3789.99

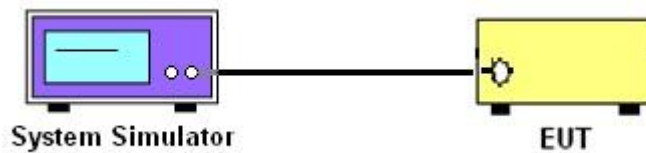
3 Conducted Test Items

3.1 Measuring Instruments

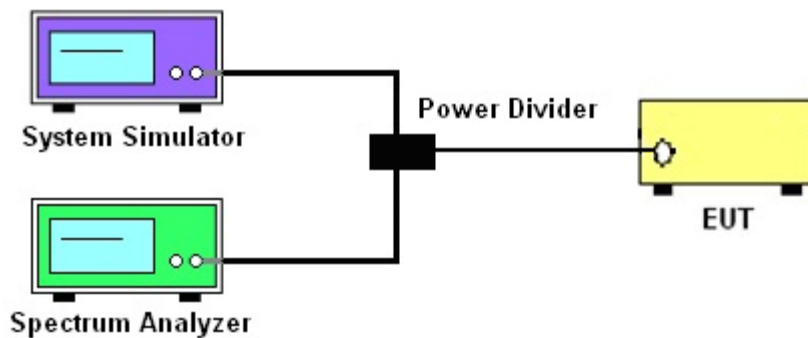
See list of measuring instruments of this test report.

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 $\geq$ 1% EBW in the 1MHz band immediately outside and adjacent to the band edge.
5. Beyond the 1 MHz band from the band edge, RBW=1MHz was used or a narrower RBW was used (generally limited to no less than 1% of the OBW) and the measured power was integrated over the full required measurement bandwidth.
6. Set spectrum analyzer with RMS detector.
7. Offset has included the duty factor for Band n77/n78. Duty factor = $10 \log(1/x)$, where x is the measured duty cycle
8. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
9. Checked that all the results comply with the emission limit line.

Example:

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

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

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

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

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.

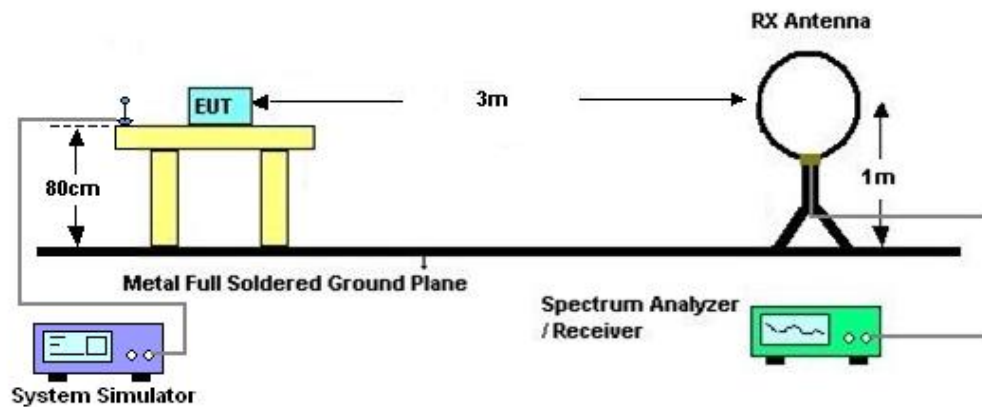
4 Radiated Test Items

4.1 Measuring Instruments

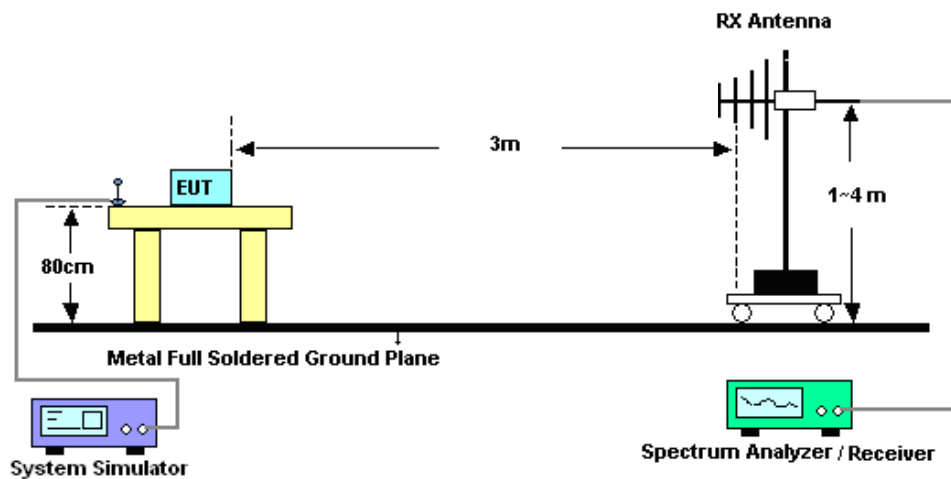
See list of measuring instruments of this test report.

4.2 Test Setup

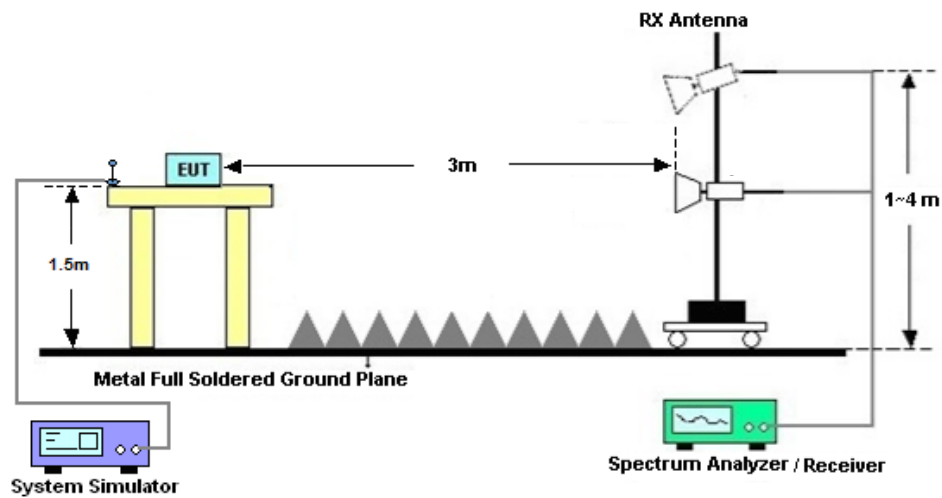
4.2.1 For radiated test below 30MHz



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

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



5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 09, 2024	Dec. 03, 2024 ~Dec.19,2024	Apr. 08, 2025	Conducted (TH01-SZ)
Power Divider	TOJOIN	PS-2SM-04 265	60.06.020.007 7	0.4GHz~26.5GHz	Dec. 25, 2023	Dec. 03, 2024 ~Dec.19,2024	Dec. 24, 2024	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 03, 2024	Dec. 03, 2024 ~Dec.19,2024	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(Ant.2)

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	647334	3710.01	DFT-s-OFDM QPSK	25@12	25.45	21.45	0.1396
77	30	20	647334	3710.01	DFT-s-OFDM QPSK	1@1	25.55	21.55	0.1429
77	30	20	647334	3710.01	DFT-s-OFDM QPSK	1@49	25.78	21.78	0.1507
77	30	20	647334	3710.01	DFT-s-OFDM 16 QAM	25@12	24.41	20.41	0.1099
77	30	20	647334	3710.01	DFT-s-OFDM 16 QAM	1@1	24.64	20.64	0.1159
77	30	20	647334	3710.01	DFT-s-OFDM 16 QAM	1@49	24.87	20.87	0.1222
77	30	20	656000	3840	DFT-s-OFDM QPSK	25@12	25.94	21.94	0.1563
77	30	20	656000	3840	DFT-s-OFDM QPSK	1@1	26.18	22.18	0.1652
77	30	20	656000	3840	DFT-s-OFDM QPSK	1@49	25.63	21.63	0.1455
77	30	20	656000	3840	DFT-s-OFDM 16 QAM	25@12	24.99	20.99	0.1256
77	30	20	656000	3840	DFT-s-OFDM 16 QAM	1@1	25.21	21.21	0.1321
77	30	20	656000	3840	DFT-s-OFDM 16 QAM	1@49	24.68	20.68	0.1169
77	30	20	664666	3969.99	DFT-s-OFDM QPSK	25@12	26.27	22.27	0.1687
77	30	20	664666	3969.99	DFT-s-OFDM QPSK	1@1	26.44	22.44	0.1754
77	30	20	664666	3969.99	DFT-s-OFDM QPSK	1@49	26.21	22.21	0.1663
77	30	20	664666	3969.99	DFT-s-OFDM 16 QAM	25@12	25.28	21.28	0.1343
77	30	20	664666	3969.99	DFT-s-OFDM 16 QAM	1@1	25.61	21.61	0.1449
77	30	20	664666	3969.99	DFT-s-OFDM 16 QAM	1@49	25.3	21.3	0.1349
77	30	30	647668	3715.02	DFT-s-OFDM QPSK	36@18	25.51	21.51	0.1416
77	30	30	647668	3715.02	DFT-s-OFDM QPSK	1@1	25.39	21.39	0.1377
77	30	30	647668	3715.02	DFT-s-OFDM QPSK	1@76	25.57	21.57	0.1435
77	30	30	647668	3715.02	DFT-s-OFDM 16 QAM	36@18	24.47	20.47	0.1114
77	30	30	647668	3715.02	DFT-s-OFDM 16 QAM	1@1	24.45	20.45	0.1109
77	30	30	647668	3715.02	DFT-s-OFDM 16 QAM	1@76	24.56	20.56	0.1138
77	30	30	656000	3840	DFT-s-OFDM QPSK	36@18	25.83	21.83	0.1524
77	30	30	656000	3840	DFT-s-OFDM QPSK	1@1	26.26	22.26	0.1683
77	30	30	656000	3840	DFT-s-OFDM QPSK	1@76	25.59	21.59	0.1442
77	30	30	656000	3840	DFT-s-OFDM 16 QAM	36@18	24.87	20.87	0.1222
77	30	30	656000	3840	DFT-s-OFDM 16 QAM	1@1	25.35	21.35	0.1365
77	30	30	656000	3840	DFT-s-OFDM 16 QAM	1@76	24.65	20.65	0.1161
77	30	30	664332	3964.98	DFT-s-OFDM QPSK	36@18	26.35	22.35	0.1718



NR Band	SCS	BandWidth	Arfcn	Freq(MHz)	Modulation	RB	Conducted Power(dBm)	EIRP(dBm)	EIRP(W)
77	30	30	664332	3964.98	DFT-s-OFDM QPSK	1@1	26.44	22.44	0.1754
77	30	30	664332	3964.98	DFT-s-OFDM QPSK	1@76	25.9	21.9	0.1549
77	30	30	664332	3964.98	DFT-s-OFDM 16 QAM	36@18	25.38	21.38	0.1374
77	30	30	664332	3964.98	DFT-s-OFDM 16 QAM	1@1	25.85	21.85	0.1531
77	30	30	664332	3964.98	DFT-s-OFDM 16 QAM	1@76	24.94	20.94	0.1242
77	30	40	648000	3720	DFT-s-OFDM QPSK	50@25	25.52	21.52	0.1419
77	30	40	648000	3720	DFT-s-OFDM QPSK	1@1	25.51	21.51	0.1416
77	30	40	648000	3720	DFT-s-OFDM QPSK	1@104	25.73	21.73	0.1489
77	30	40	648000	3720	DFT-s-OFDM 16 QAM	50@25	24.46	20.46	0.1112
77	30	40	648000	3720	DFT-s-OFDM 16 QAM	1@1	24.55	20.55	0.1135
77	30	40	648000	3720	DFT-s-OFDM 16 QAM	1@104	24.75	20.75	0.1189
77	30	40	656000	3840	DFT-s-OFDM QPSK	50@25	25.91	21.91	0.1552
77	30	40	656000	3840	DFT-s-OFDM QPSK	1@1	26.47	22.47	0.1766
77	30	40	656000	3840	DFT-s-OFDM QPSK	1@104	25.67	21.67	0.1469
77	30	40	656000	3840	DFT-s-OFDM 16 QAM	50@25	24.85	20.85	0.1216
77	30	40	656000	3840	DFT-s-OFDM 16 QAM	1@1	25.49	21.49	0.1409
77	30	40	656000	3840	DFT-s-OFDM 16 QAM	1@104	24.73	20.73	0.1183
77	30	40	664000	3960	DFT-s-OFDM QPSK	50@25	26.43	22.43	0.1750
77	30	40	664000	3960	DFT-s-OFDM QPSK	1@1	26.41	22.41	0.1742
77	30	40	664000	3960	DFT-s-OFDM QPSK	1@104	26.02	22.02	0.1592
77	30	40	664000	3960	DFT-s-OFDM 16 QAM	50@25	25.48	21.48	0.1406
77	30	40	664000	3960	DFT-s-OFDM 16 QAM	1@1	26.01	22.01	0.1589
77	30	40	664000	3960	DFT-s-OFDM 16 QAM	1@104	25.11	21.11	0.1291
77	30	50	648334	3725.01	DFT-s-OFDM QPSK	64@32	25.52	21.52	0.1419
77	30	50	648334	3725.01	DFT-s-OFDM QPSK	1@1	25.56	21.56	0.1432
77	30	50	648334	3725.01	DFT-s-OFDM QPSK	1@131	25.62	21.62	0.1452
77	30	50	648334	3725.01	DFT-s-OFDM 16 QAM	64@32	24.49	20.49	0.1119
77	30	50	648334	3725.01	DFT-s-OFDM 16 QAM	1@1	24.62	20.62	0.1153
77	30	50	648334	3725.01	DFT-s-OFDM 16 QAM	1@131	24.69	20.69	0.1172
77	30	50	656000	3840	DFT-s-OFDM QPSK	64@32	25.77	21.77	0.1503
77	30	50	656000	3840	DFT-s-OFDM QPSK	1@1	26.11	22.11	0.1626
77	30	50	656000	3840	DFT-s-OFDM QPSK	1@131	25.64	21.64	0.1459
77	30	50	656000	3840	DFT-s-OFDM 16 QAM	64@32	24.79	20.79	0.1199
77	30	50	656000	3840	DFT-s-OFDM 16 QAM	1@1	25.18	21.18	0.1312
77	30	50	656000	3840	DFT-s-OFDM 16 QAM	1@131	24.67	20.67	0.1167
77	30	50	663666	3954.99	DFT-s-OFDM QPSK	64@32	26.51	22.51	0.1782
77	30	50	663666	3954.99	DFT-s-OFDM QPSK	1@1	26.45	22.45	0.1758



NR Band	SCS	BandWidth	Arfcn	Freq(MHz)	Modulation	RB	Conducted Power(dBm)	EIRP(dBm)	EIRP(W)
77	30	50	663666	3954.99	DFT-s-OFDM QPSK	1@131	26.12	22.12	0.1629
77	30	50	663666	3954.99	DFT-s-OFDM 16 QAM	64@32	25.52	21.52	0.1419
77	30	50	663666	3954.99	DFT-s-OFDM 16 QAM	1@1	25.51	21.51	0.1416
77	30	50	663666	3954.99	DFT-s-OFDM 16 QAM	1@131	25.22	21.22	0.1324
77	30	60	648668	3730.02	DFT-s-OFDM QPSK	81@40	25.54	21.54	0.1426
77	30	60	648668	3730.02	DFT-s-OFDM QPSK	1@1	25.47	21.47	0.1403
77	30	60	648668	3730.02	DFT-s-OFDM QPSK	1@160	25.68	21.68	0.1472
77	30	60	648668	3730.02	DFT-s-OFDM 16 QAM	81@40	24.49	20.49	0.1119
77	30	60	648668	3730.02	DFT-s-OFDM 16 QAM	1@1	24.55	20.55	0.1135
77	30	60	648668	3730.02	DFT-s-OFDM 16 QAM	1@160	24.68	20.68	0.1169
77	30	60	656000	3840	DFT-s-OFDM QPSK	81@40	25.76	21.76	0.1500
77	30	60	656000	3840	DFT-s-OFDM QPSK	1@1	25.86	21.86	0.1535
77	30	60	656000	3840	DFT-s-OFDM QPSK	1@160	25.72	21.72	0.1486
77	30	60	656000	3840	DFT-s-OFDM 16 QAM	81@40	24.76	20.76	0.1191
77	30	60	656000	3840	DFT-s-OFDM 16 QAM	1@1	24.95	20.95	0.1245
77	30	60	656000	3840	DFT-s-OFDM 16 QAM	1@160	24.78	20.78	0.1197
77	30	60	663332	3949.98	DFT-s-OFDM QPSK	81@40	26.51	22.51	0.1782
77	30	60	663332	3949.98	DFT-s-OFDM QPSK	1@1	25.96	21.96	0.1570
77	30	60	663332	3949.98	DFT-s-OFDM QPSK	1@160	26.1	22.1	0.1622
77	30	60	663332	3949.98	DFT-s-OFDM 16 QAM	81@40	25.54	21.54	0.1426
77	30	60	663332	3949.98	DFT-s-OFDM 16 QAM	1@1	24.96	20.96	0.1247
77	30	60	663332	3949.98	DFT-s-OFDM 16 QAM	1@160	25.18	21.18	0.1312
77	30	70	649000	3735	DFT-s-OFDM QPSK	90@45	25.63	21.63	0.1455
77	30	70	649000	3735	DFT-s-OFDM QPSK	1@1	25.54	21.54	0.1426
77	30	70	649000	3735	DFT-s-OFDM QPSK	1@187	25.78	21.78	0.1507
77	30	70	649000	3735	DFT-s-OFDM 16 QAM	90@45	24.54	20.54	0.1132
77	30	70	649000	3735	DFT-s-OFDM 16 QAM	1@1	24.62	20.62	0.1153
77	30	70	649000	3735	DFT-s-OFDM 16 QAM	1@187	24.85	20.85	0.1216
77	30	70	656000	3840	DFT-s-OFDM QPSK	90@45	25.75	21.75	0.1496
77	30	70	656000	3840	DFT-s-OFDM QPSK	1@1	25.89	21.89	0.1545
77	30	70	656000	3840	DFT-s-OFDM QPSK	1@187	25.73	21.73	0.1489
77	30	70	656000	3840	DFT-s-OFDM 16 QAM	90@45	24.76	20.76	0.1191
77	30	70	656000	3840	DFT-s-OFDM 16 QAM	1@1	24.96	20.96	0.1247
77	30	70	656000	3840	DFT-s-OFDM 16 QAM	1@187	24.79	20.79	0.1199
77	30	70	663000	3945	DFT-s-OFDM QPSK	90@45	26.43	22.43	0.1750
77	30	70	663000	3945	DFT-s-OFDM QPSK	1@1	25.93	21.93	0.1560
77	30	70	663000	3945	DFT-s-OFDM QPSK	1@187	26.13	22.13	0.1633



NR Band	SCS	BandWidth	Arfcn	Freq(MHz)	Modulation	RB	Conducted Power(dBm)	EIRP(dBm)	EIRP(W)
77	30	70	663000	3945	DFT-s-OFDM 16 QAM	90@45	25.5	21.5	0.1413
77	30	70	663000	3945	DFT-s-OFDM 16 QAM	1@1	24.97	20.97	0.1250
77	30	70	663000	3945	DFT-s-OFDM 16 QAM	1@187	25.2	21.2	0.1318
77	30	80	649334	3740.01	DFT-s-OFDM QPSK	108@54	25.63	21.63	0.1455
77	30	80	649334	3740.01	DFT-s-OFDM QPSK	1@1	25.47	21.47	0.1403
77	30	80	649334	3740.01	DFT-s-OFDM QPSK	1@215	25.61	21.61	0.1449
77	30	80	649334	3740.01	DFT-s-OFDM 16 QAM	108@54	24.58	20.58	0.1143
77	30	80	649334	3740.01	DFT-s-OFDM 16 QAM	1@1	24.51	20.51	0.1125
77	30	80	649334	3740.01	DFT-s-OFDM 16 QAM	1@215	24.65	20.65	0.1161
77	30	80	656000	3840	DFT-s-OFDM QPSK	108@54	25.69	21.69	0.1476
77	30	80	656000	3840	DFT-s-OFDM QPSK	1@1	25.81	21.81	0.1517
77	30	80	656000	3840	DFT-s-OFDM QPSK	1@215	26.04	22.04	0.1600
77	30	80	656000	3840	DFT-s-OFDM 16 QAM	108@54	24.76	20.76	0.1191
77	30	80	656000	3840	DFT-s-OFDM 16 QAM	1@1	24.84	20.84	0.1213
77	30	80	656000	3840	DFT-s-OFDM 16 QAM	1@215	25.02	21.02	0.1265
77	30	80	662666	3939.99	DFT-s-OFDM QPSK	108@54	26.44	22.44	0.1754
77	30	80	662666	3939.99	DFT-s-OFDM QPSK	1@1	25.92	21.92	0.1556
77	30	80	662666	3939.99	DFT-s-OFDM QPSK	1@215	26.11	22.11	0.1626
77	30	80	662666	3939.99	DFT-s-OFDM 16 QAM	108@54	25.44	21.44	0.1393
77	30	80	662666	3939.99	DFT-s-OFDM 16 QAM	1@1	25.04	21.04	0.1271
77	30	80	662666	3939.99	DFT-s-OFDM 16 QAM	1@215	25.19	21.19	0.1315
77	30	90	649668	3745.02	DFT-s-OFDM QPSK	120@60	25.57	21.57	0.1435
77	30	90	649668	3745.02	DFT-s-OFDM QPSK	1@1	25.52	21.52	0.1419
77	30	90	649668	3745.02	DFT-s-OFDM QPSK	1@243	25.51	21.51	0.1416
77	30	90	649668	3745.02	DFT-s-OFDM 16 QAM	120@60	24.51	20.51	0.1125
77	30	90	649668	3745.02	DFT-s-OFDM 16 QAM	1@1	24.61	20.61	0.1151
77	30	90	649668	3745.02	DFT-s-OFDM 16 QAM	1@243	24.52	20.52	0.1127
77	30	90	656000	3840	DFT-s-OFDM QPSK	120@60	25.77	21.77	0.1503
77	30	90	656000	3840	DFT-s-OFDM QPSK	1@1	25.69	21.69	0.1476
77	30	90	656000	3840	DFT-s-OFDM QPSK	1@243	26.11	22.11	0.1626
77	30	90	656000	3840	DFT-s-OFDM 16 QAM	120@60	24.77	20.77	0.1194
77	30	90	656000	3840	DFT-s-OFDM 16 QAM	1@1	24.78	20.78	0.1197
77	30	90	656000	3840	DFT-s-OFDM 16 QAM	1@243	25.15	21.15	0.1303
77	30	90	662332	3934.98	DFT-s-OFDM QPSK	120@60	26.16	22.16	0.1644
77	30	90	662332	3934.98	DFT-s-OFDM QPSK	1@1	26.19	22.19	0.1656
77	30	90	662332	3934.98	DFT-s-OFDM QPSK	1@243	25.93	21.93	0.1560
77	30	90	662332	3934.98	DFT-s-OFDM 16 QAM	120@60	25.2	21.2	0.1318



NR Band	SCS	BandWidth	Arfcn	Freq(MHz)	Modulation	RB	Conducted Power(dBm)	EIRP(dBm)	EIRP(W)
77	30	90	662332	3934.98	DFT-s-OFDM 16 QAM	1@1	25.27	21.27	0.1340
77	30	90	662332	3934.98	DFT-s-OFDM 16 QAM	1@243	24.95	20.95	0.1245
77	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	135@67	26.19	22.19	0.1656
77	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	26.23	22.23	0.1671
77	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	1@271	26.03	22.03	0.1596
77	30	100	650000	3750	DFT-s-OFDM QPSK	135@67	25.67	21.67	0.1469
77	30	100	650000	3750	DFT-s-OFDM QPSK	1@1	25.75	21.75	0.1496
77	30	100	650000	3750	DFT-s-OFDM QPSK	1@271	25.87	21.87	0.1538
77	30	100	650000	3750	DFT-s-OFDM 16 QAM	135@67	24.65	20.65	0.1161
77	30	100	650000	3750	DFT-s-OFDM 16 QAM	1@1	24.8	20.8	0.1202
77	30	100	650000	3750	DFT-s-OFDM 16 QAM	1@271	24.97	20.97	0.1250
77	30	100	650000	3750	DFT-s-OFDM 64 QAM	135@67	23.14	19.14	0.0820
77	30	100	650000	3750	DFT-s-OFDM 64 QAM	1@1	23.3	19.3	0.0851
77	30	100	650000	3750	DFT-s-OFDM 64 QAM	1@271	23.43	19.43	0.0877
77	30	100	650000	3750	DFT-s-OFDM 256 QAM	135@67	21.66	17.66	0.0583
77	30	100	650000	3750	DFT-s-OFDM 256 QAM	1@1	21.61	17.61	0.0577
77	30	100	650000	3750	DFT-s-OFDM 256 QAM	1@271	21.62	17.62	0.0578
77	30	100	650000	3750	CP-OFDM QPSK	137@68	23.93	19.93	0.0984
77	30	100	650000	3750	CP-OFDM QPSK	1@1	24.08	20.08	0.1019
77	30	100	650000	3750	CP-OFDM QPSK	1@271	24.19	20.19	0.1045
77	30	100	656000	3840	DFT-s-OFDM PI/2 BPSK	135@67	26.12	22.12	0.1629
77	30	100	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	26.07	22.07	0.1611
77	30	100	656000	3840	DFT-s-OFDM PI/2 BPSK	1@271	26.17	22.17	0.1648
77	30	100	656000	3840	DFT-s-OFDM QPSK	135@67	26.19	22.19	0.1656
77	30	100	656000	3840	DFT-s-OFDM QPSK	1@1	26.06	22.06	0.1607
77	30	100	656000	3840	DFT-s-OFDM QPSK	1@271	26.15	22.15	0.1641
77	30	100	656000	3840	DFT-s-OFDM 16 QAM	135@67	25.17	21.17	0.1309
77	30	100	656000	3840	DFT-s-OFDM 16 QAM	1@1	25.18	21.18	0.1312
77	30	100	656000	3840	DFT-s-OFDM 16 QAM	1@271	25.28	21.28	0.1343
77	30	100	656000	3840	DFT-s-OFDM 64 QAM	135@67	23.66	19.66	0.0925
77	30	100	656000	3840	DFT-s-OFDM 64 QAM	1@1	23.58	19.58	0.0908
77	30	100	656000	3840	DFT-s-OFDM 64 QAM	1@271	23.7	19.7	0.0933
77	30	100	656000	3840	DFT-s-OFDM 256 QAM	135@67	21.71	17.71	0.0590
77	30	100	656000	3840	DFT-s-OFDM 256 QAM	1@1	21.45	17.45	0.0556
77	30	100	656000	3840	DFT-s-OFDM 256 QAM	1@271	21.54	17.54	0.0568
77	30	100	656000	3840	CP-OFDM QPSK	137@68	24.65	20.65	0.1161
77	30	100	656000	3840	CP-OFDM QPSK	1@1	24.51	20.51	0.1125



NR Band	SCS	BandWidth	Arfcn	Freq(MHz)	Modulation	RB	Conducted Power(dBm)	EIRP(dBm)	EIRP(W)
77	30	100	656000	3840	CP-OFDM QPSK	1@271	24.57	20.57	0.1140
77	30	100	662000	3930	DFT-s-OFDM PI/2 BPSK	135@67	26.45	22.45	0.1758
77	30	100	662000	3930	DFT-s-OFDM PI/2 BPSK	1@1	26.39	22.39	0.1734
77	30	100	662000	3930	DFT-s-OFDM PI/2 BPSK	1@271	26.52	22.52	0.1786
77	30	100	662000	3930	DFT-s-OFDM QPSK	135@67	26.48	22.48	0.1770
77	30	100	662000	3930	DFT-s-OFDM QPSK	1@1	26.44	22.44	0.1754
77	30	100	662000	3930	DFT-s-OFDM QPSK	1@271	26.5	22.5	0.1778
77	30	100	662000	3930	DFT-s-OFDM 16 QAM	135@67	25.52	21.52	0.1419
77	30	100	662000	3930	DFT-s-OFDM 16 QAM	1@1	25.47	21.47	0.1403
77	30	100	662000	3930	DFT-s-OFDM 16 QAM	1@271	25.57	21.57	0.1435
77	30	100	662000	3930	DFT-s-OFDM 64 QAM	135@67	24.05	20.05	0.1012
77	30	100	662000	3930	DFT-s-OFDM 64 QAM	1@1	23.94	19.94	0.0986
77	30	100	662000	3930	DFT-s-OFDM 64 QAM	1@271	24.01	20.01	0.1002
77	30	100	662000	3930	DFT-s-OFDM 256 QAM	135@67	22.03	18.03	0.0635
77	30	100	662000	3930	DFT-s-OFDM 256 QAM	1@1	21.78	17.78	0.0600
77	30	100	662000	3930	DFT-s-OFDM 256 QAM	1@271	21.91	17.91	0.0618
77	30	100	662000	3930	CP-OFDM QPSK	137@68	25.09	21.09	0.1285
77	30	100	662000	3930	CP-OFDM QPSK	1@1	24.94	20.94	0.1242
77	30	100	662000	3930	CP-OFDM QPSK	1@271	24.96	20.96	0.1247

Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (Hz)	Verdict	Environment
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	18	PASS	NV
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	16	PASS	LV
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	11	PASS	HV
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	17	PASS	-30°C
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	19.2	PASS	-20°C
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	16.3	PASS	-10°C
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	16.8	PASS	0°C
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	18	PASS	10°C
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	17.8	PASS	20°C
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	19.5	PASS	30°C
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	18.4	PASS	40°C
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	16.7	PASS	50°C

$|\text{MAX}(\Delta f)| = 19.5 \text{ Hz}$

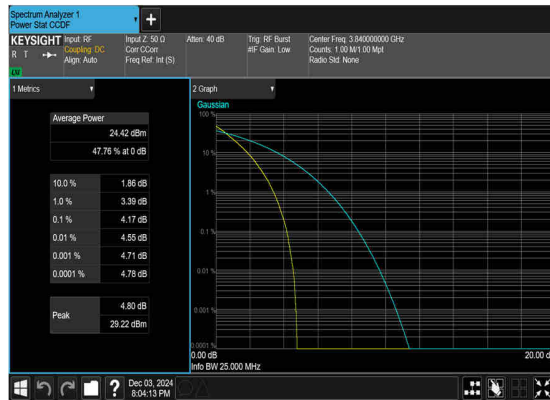
Frequency Stability	Frequency (MHz)	Limit Line	Result
$f_L - \text{MAX}(\Delta f) $	3700.5676805	$\geq 3700 \text{ MHz}$	PASS
$f_H + \text{MAX}(\Delta f) $	3979.3947195	$\leq 3980 \text{ MHz}$	



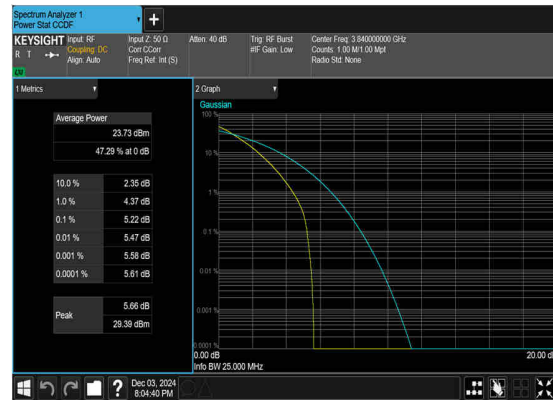
Peak to Average Ratio

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
77	30	20	656000	3840.0	DFT-s-OFDM PI/2 BPSK	50@0	4.17	13	PASS
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	5.22	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

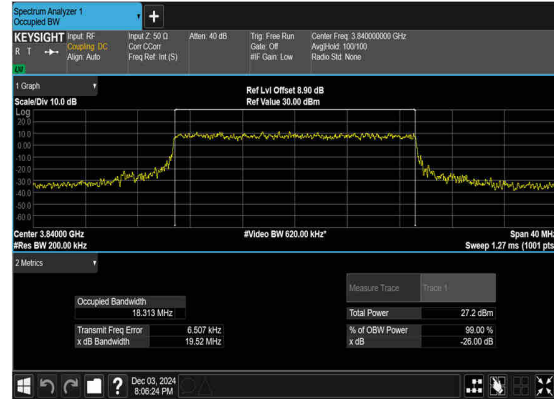
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
77	30	20	656000	3840.0	CP-OFDM QPSK	51@0	18.228	19.58
77	30	20	656000	3840.0	CP-OFDM 16 QAM	51@0	18.313	19.52
77	30	20	656000	3840.0	CP-OFDM 64 QAM	51@0	18.207	19.41
77	30	20	656000	3840.0	CP-OFDM 256 QAM	51@0	18.226	19.84
77	30	30	656000	3840.0	CP-OFDM QPSK	78@0	27.846	28.85
77	30	30	656000	3840.0	CP-OFDM 16 QAM	78@0	27.782	29.05
77	30	30	656000	3840.0	CP-OFDM 64 QAM	78@0	27.778	29.1
77	30	30	656000	3840.0	CP-OFDM 256 QAM	78@0	27.909	29.18
77	30	40	656000	3840.0	CP-OFDM QPSK	106@0	37.8	39.53
77	30	40	656000	3840.0	CP-OFDM 16 QAM	106@0	37.885	39.38
77	30	40	656000	3840.0	CP-OFDM 64 QAM	106@0	37.799	39.44
77	30	40	656000	3840.0	CP-OFDM 256 QAM	106@0	37.919	39.25
77	30	50	656000	3840.0	CP-OFDM QPSK	133@0	47.523	51.36
77	30	50	656000	3840.0	CP-OFDM 16 QAM	133@0	47.52	49.06
77	30	50	656000	3840.0	CP-OFDM 64 QAM	133@0	47.525	49.17
77	30	50	656000	3840.0	CP-OFDM 256 QAM	133@0	47.676	49.62
77	30	60	656000	3840.0	CP-OFDM QPSK	162@0	57.932	60.06
77	30	60	656000	3840.0	CP-OFDM 16 QAM	162@0	57.898	59.73
77	30	60	656000	3840.0	CP-OFDM 64 QAM	162@0	57.997	59.9
77	30	60	656000	3840.0	CP-OFDM 256 QAM	162@0	57.954	59.72
77	30	70	656000	3840.0	CP-OFDM QPSK	189@0	67.443	69.73
77	30	70	656000	3840.0	CP-OFDM 16 QAM	189@0	67.516	69.73
77	30	70	656000	3840.0	CP-OFDM 64 QAM	189@0	67.454	70.08
77	30	70	656000	3840.0	CP-OFDM 256 QAM	189@0	67.529	69.7
77	30	80	656000	3840.0	CP-OFDM QPSK	217@0	77.576	81.91
77	30	80	656000	3840.0	CP-OFDM 16 QAM	217@0	77.719	80.36
77	30	80	656000	3840.0	CP-OFDM 64 QAM	217@0	77.532	79.96
77	30	80	656000	3840.0	CP-OFDM 256 QAM	217@0	77.542	79.89
77	30	90	656000	3840.0	CP-OFDM QPSK	245@0	87.437	90.28
77	30	90	656000	3840.0	CP-OFDM 16 QAM	245@0	87.471	90.34
77	30	90	656000	3840.0	CP-OFDM 64 QAM	245@0	87.545	90.37
77	30	90	656000	3840.0	CP-OFDM 256 QAM	245@0	87.624	90.21
77	30	100	656000	3840.0	CP-OFDM QPSK	273@0	97.486	100.5
77	30	100	656000	3840.0	CP-OFDM 16 QAM	273@0	97.727	100.6
77	30	100	656000	3840.0	CP-OFDM 64 QAM	273@0	97.314	100.6
77	30	100	656000	3840.0	CP-OFDM 256 QAM	273@0	97.525	100.5



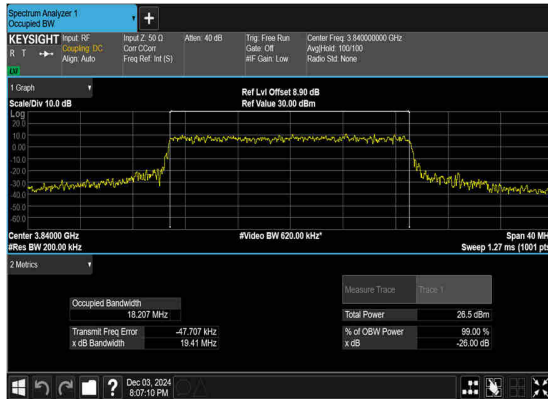
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OFDM_QPSK_Outer_Full_Mid_CH



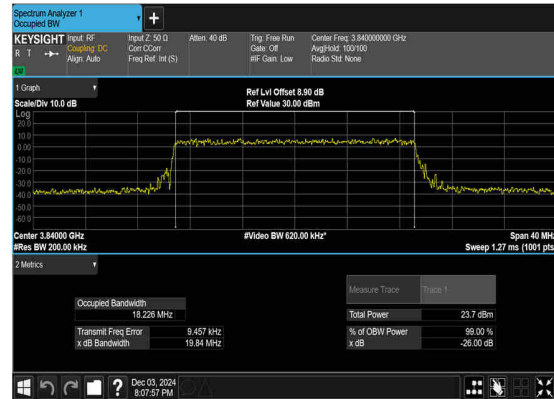
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QAM_Outer_Full_Mid_CH



N77(20M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



N77(20M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

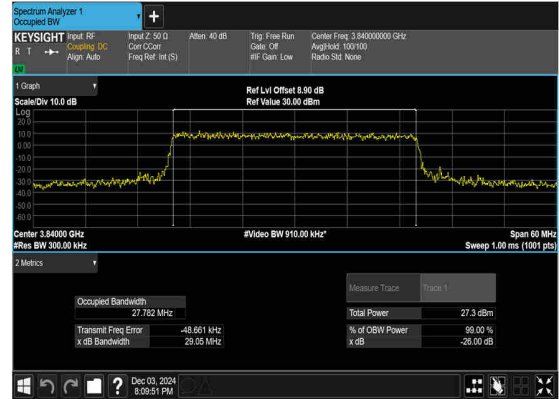




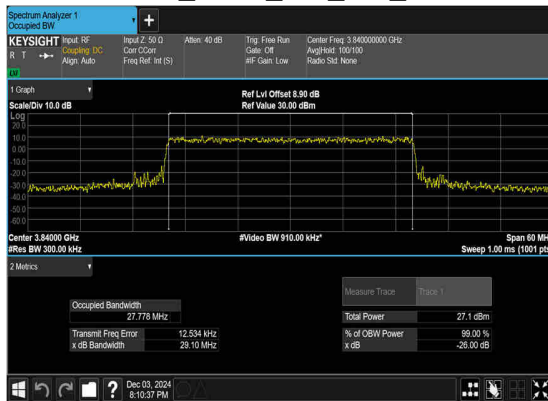
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OFDM_QPSK_Outer_Full_Mid_CH



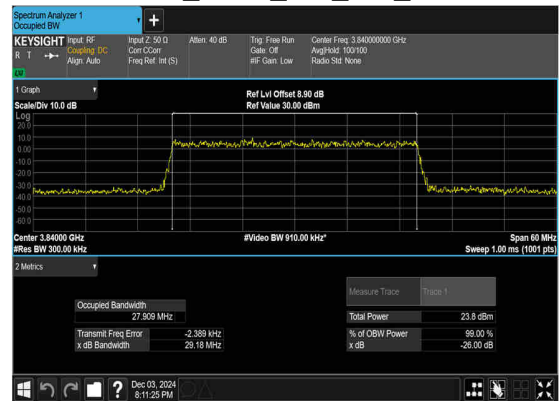
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QAM_Outer_Full_Mid_CH



N77(30M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



N77(30M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

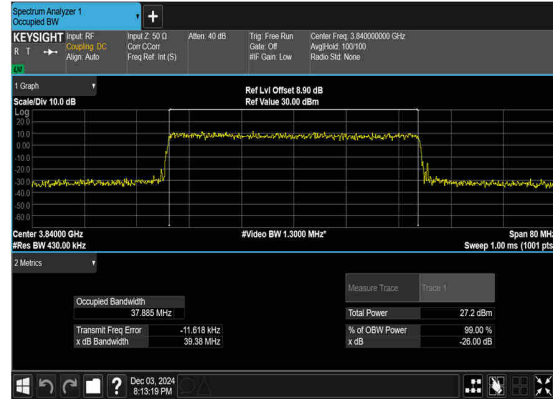




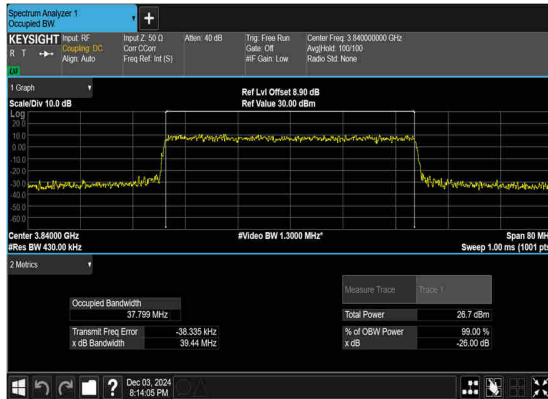
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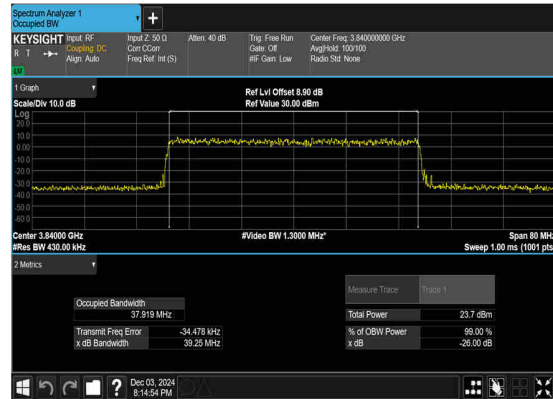
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QAM_Outer_Full_Mid_CH



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QAM_Outer_Full_Mid_CH



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QAM_Outer_Full_Mid_CH

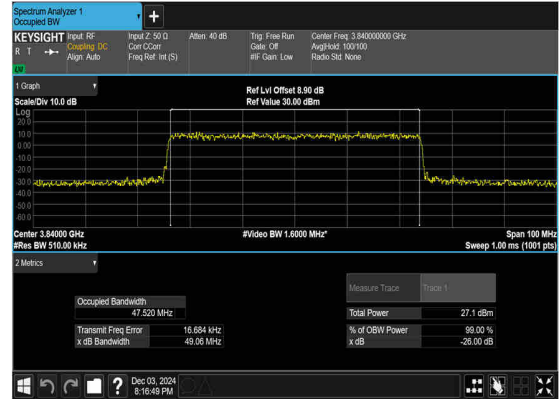




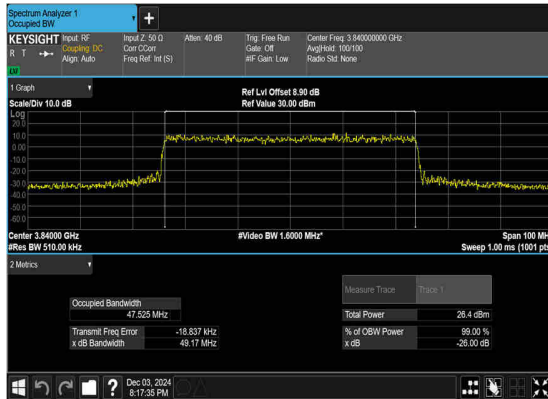
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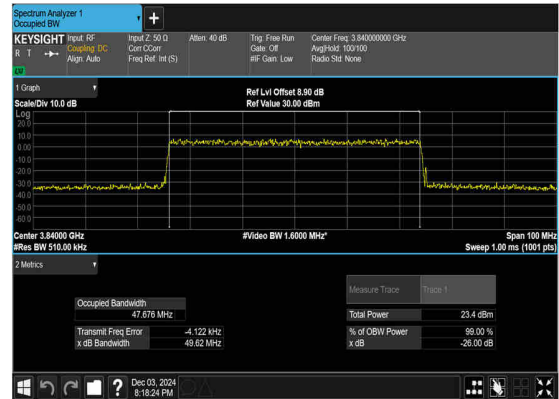
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QAM_Outer_Full_Mid_CH



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QAM_Outer_Full_Mid_CH

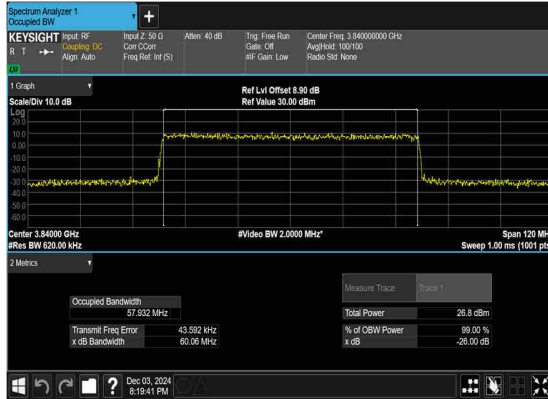


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QAM_Outer_Full_Mid_CH

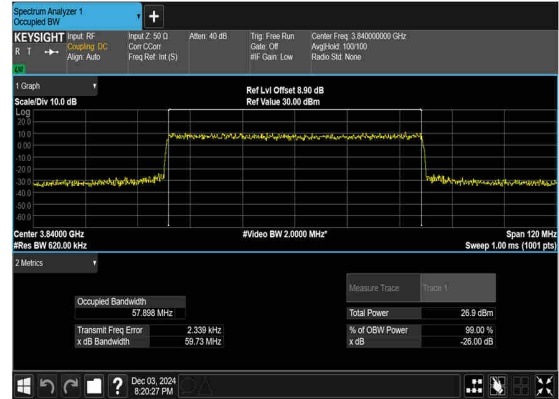




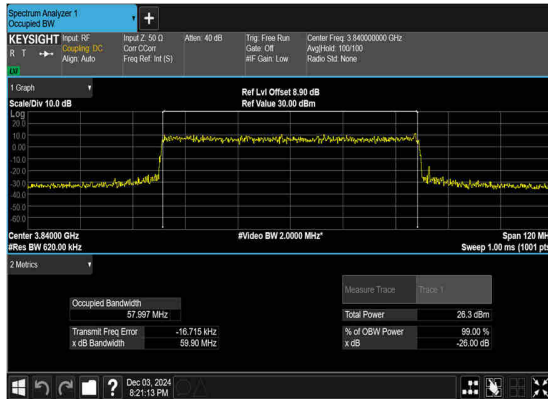
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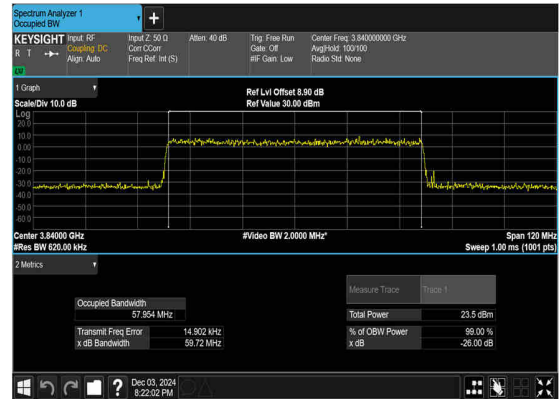
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QAM_Outer_Full_Mid_CH



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QAM_Outer_Full_Mid_CH



N77(60M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH





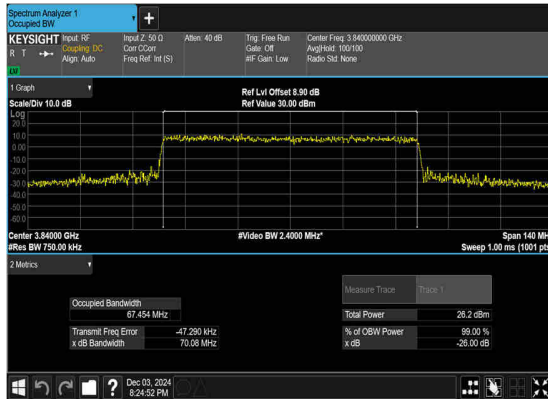
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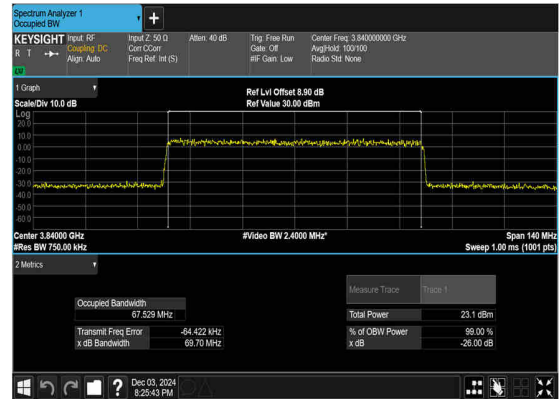
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QAM_Outer_Full_Mid_CH



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QAM_Outer_Full_Mid_CH



N77(70M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

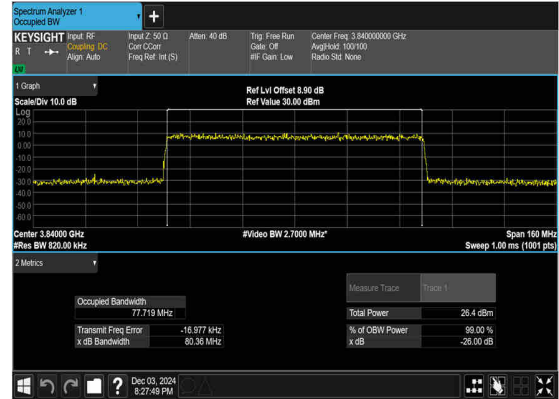




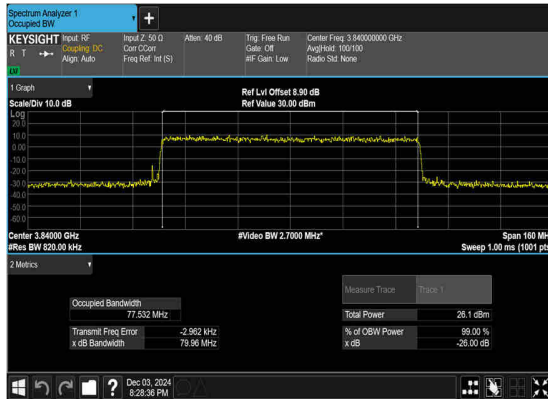
N77(80M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



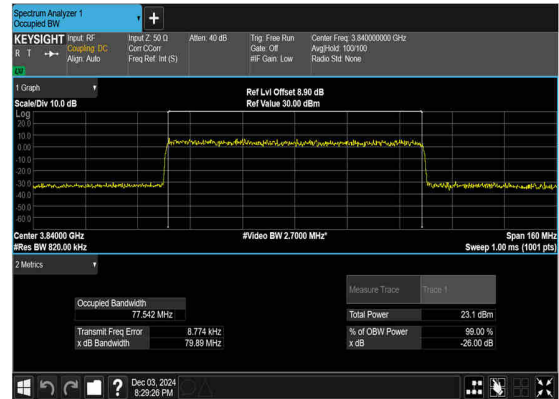
N77(80M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N77(80M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

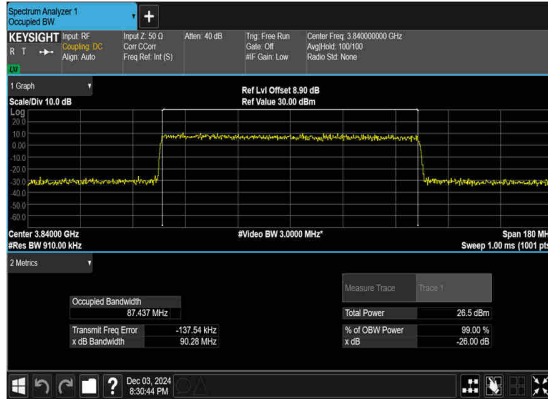


N77(80M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

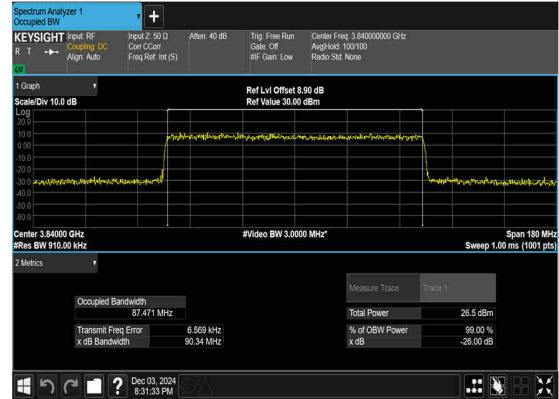




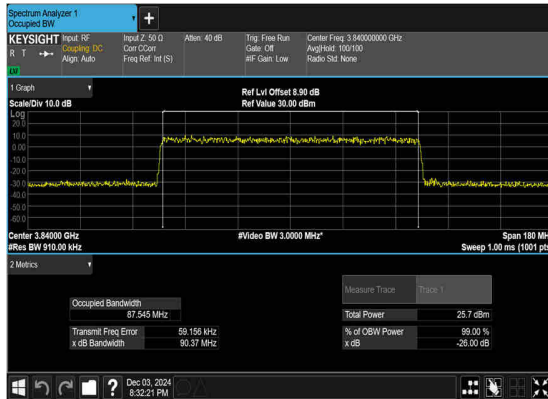
N77(90M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



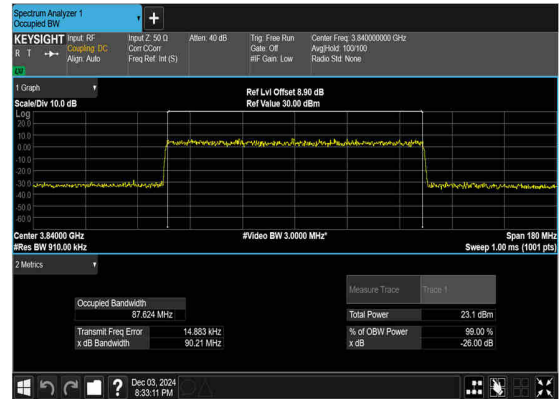
N77(90M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N77(90M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



N77(90M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

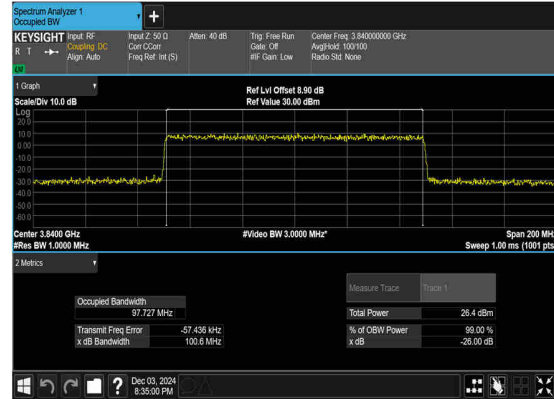




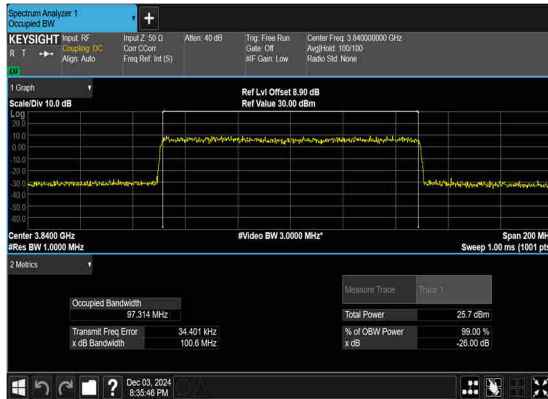
N77(100M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



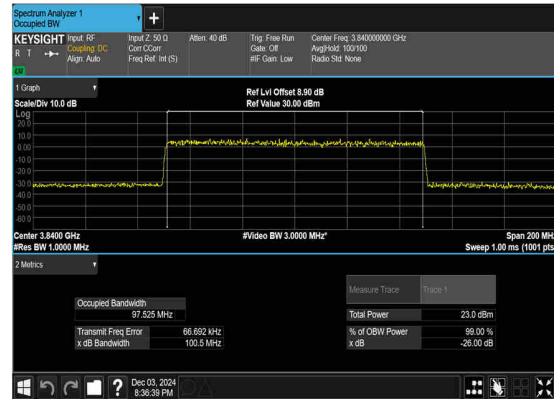
N77(100M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N77(100M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



N77(100M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH





Conducted Spurious Emissions

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
77	30	20	647334	3710.01	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	20	647334	3710.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	20	647334	3710.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	20	647334	3710.01	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	20	647334	3710.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	20	647334	3710.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	20	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	20	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	20	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	20	664666	3969.99	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	20	664666	3969.99	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	20	664666	3969.99	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	20	664666	3969.99	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	20	664666	3969.99	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	20	664666	3969.99	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	60	648668	3730.02	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	60	648668	3730.02	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	60	648668	3730.02	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	60	648668	3730.02	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	60	648668	3730.02	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	60	648668	3730.02	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	60	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	60	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	60	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	60	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	60	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	60	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	60	663332	3949.98	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	60	663332	3949.98	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	60	663332	3949.98	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	60	663332	3949.98	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	60	663332	3949.98	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	60	663332	3949.98	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	100	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	---



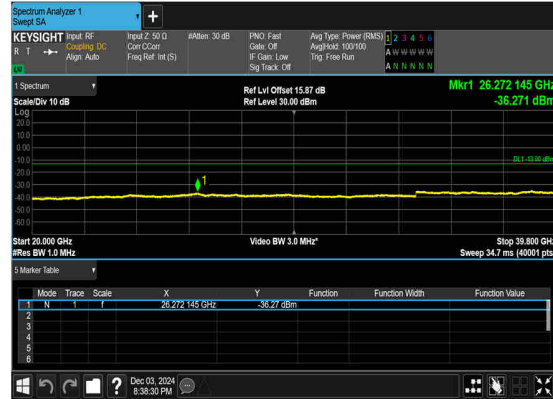
77	30	100	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	100	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	100	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	100	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	100	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	100	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	100	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	100	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	100	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	100	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	100	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	100	662000	3930.0	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	100	662000	3930.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	100	662000	3930.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	100	662000	3930.0	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	100	662000	3930.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	100	662000	3930.0	DFT-s-OFDM QPSK	1@0	see graph	PASS



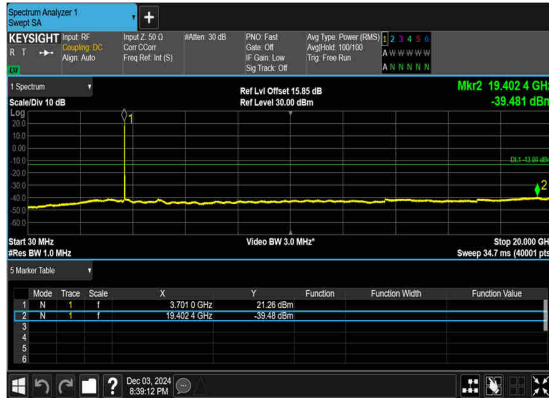
N77(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



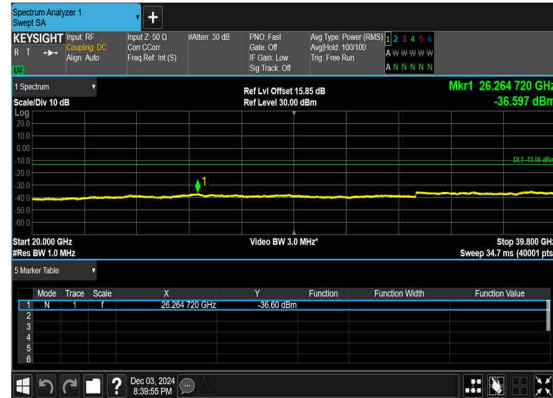
N77(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



N77(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N77(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH

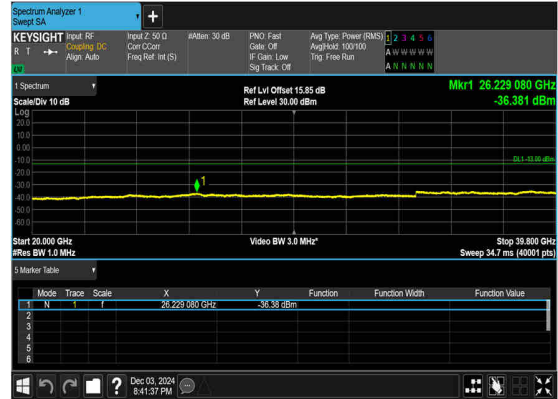




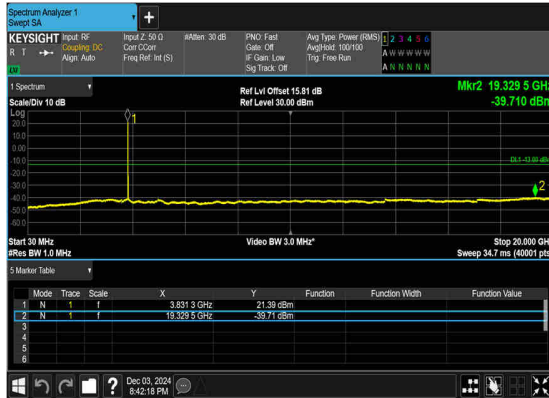
N77(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



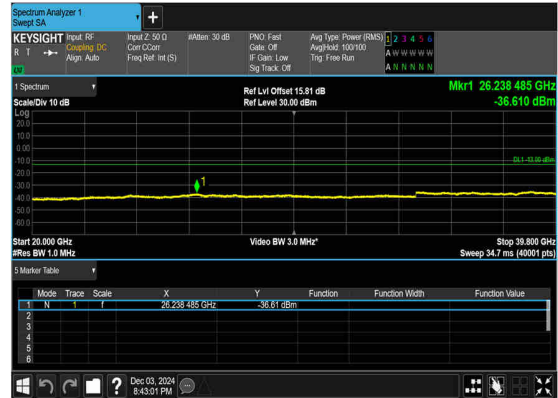
N77(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



N77(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



N77(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH

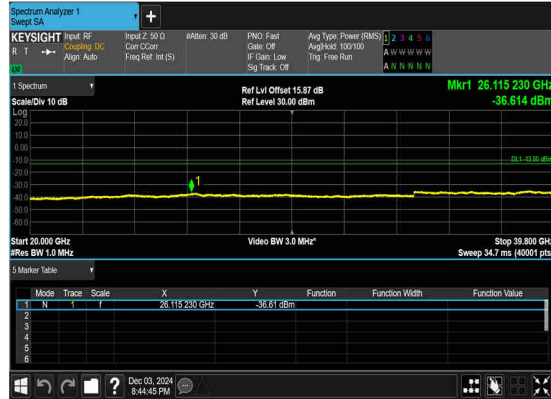




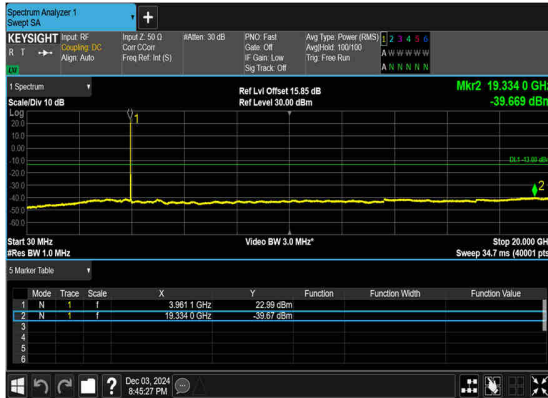
N77(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



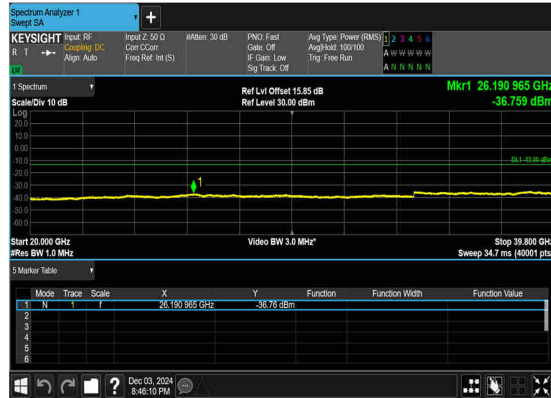
N77(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



N77(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH



N77(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH

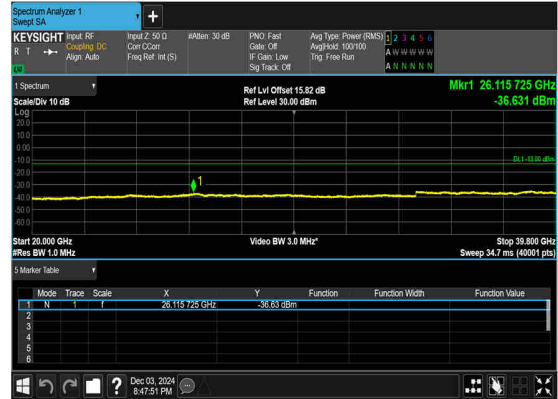




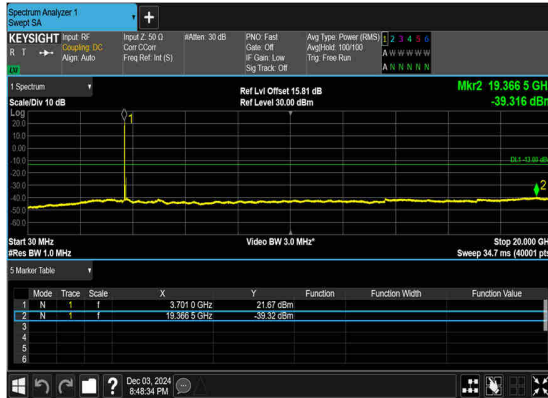
N77(60M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



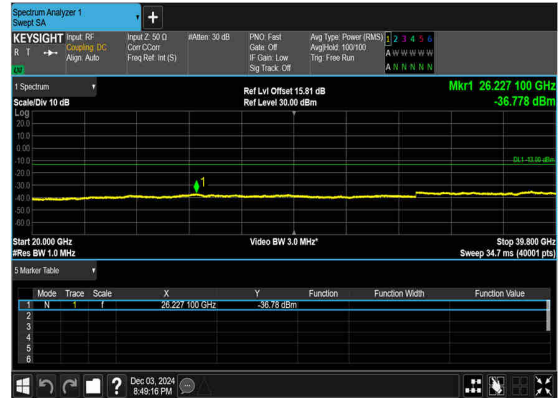
N77(60M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



N77(60M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH

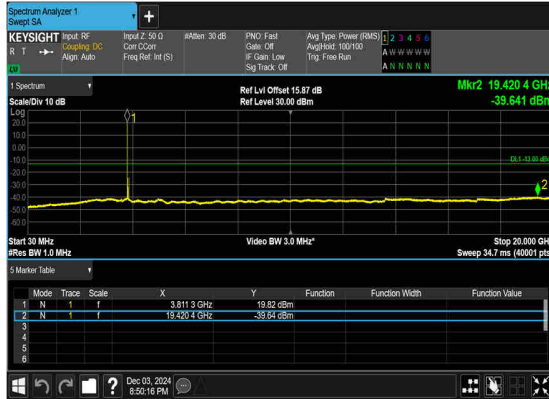


N77(60M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH

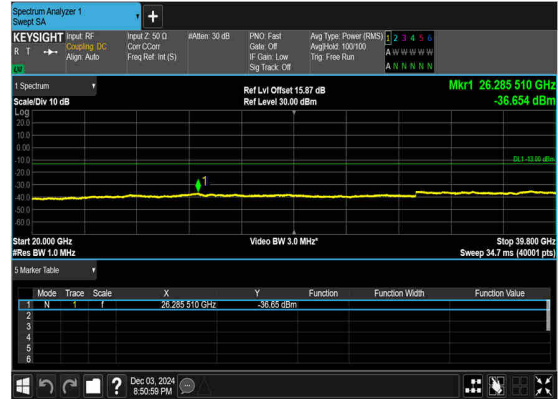




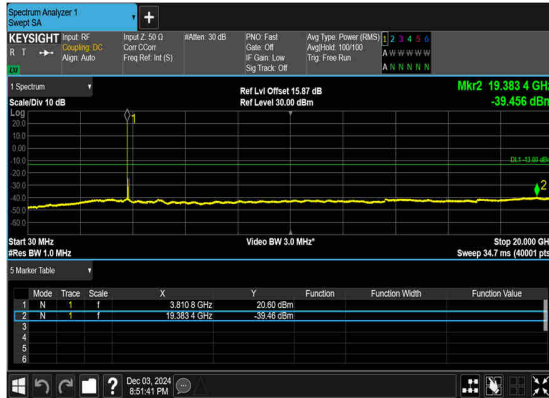
N77(60M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



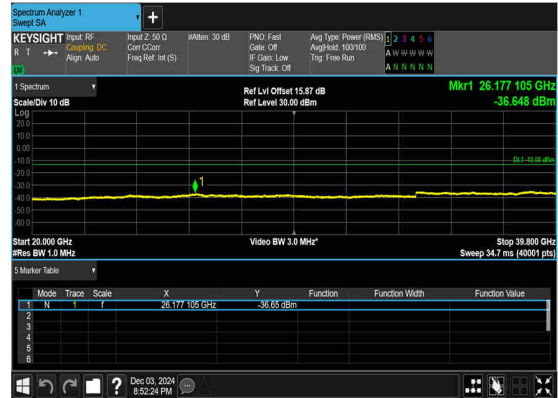
N77(60M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



N77(60M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



N77(60M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH

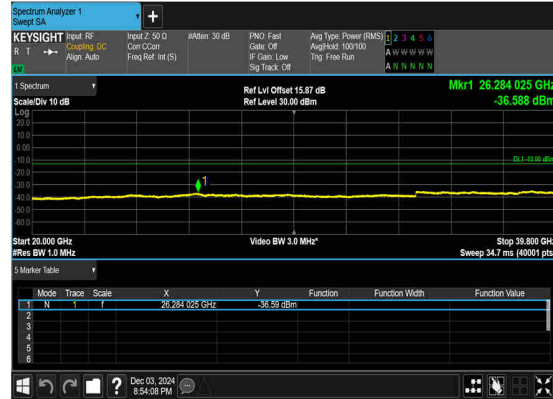




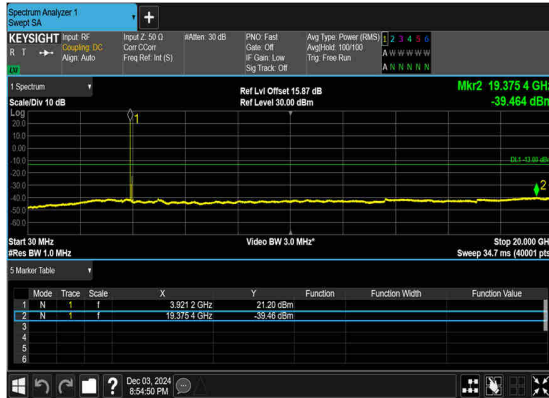
N77(60M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



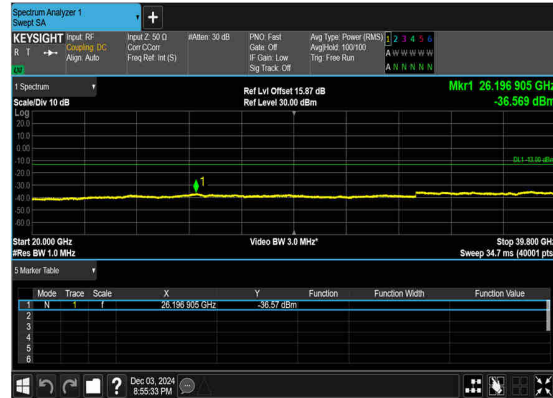
N77(60M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



N77(60M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH



N77(60M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH

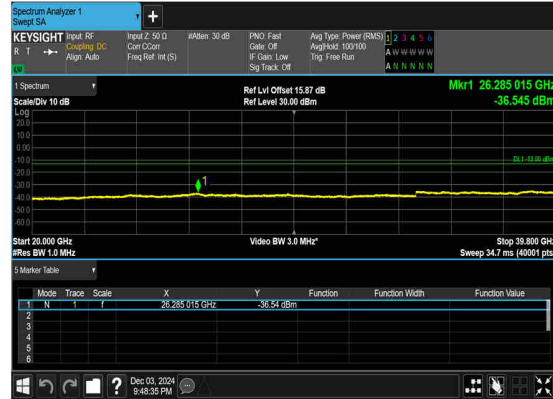




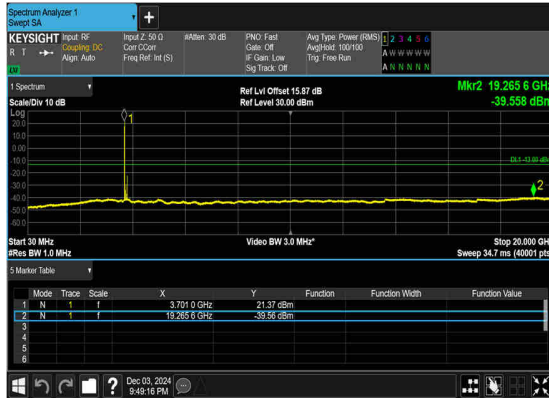
N77(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



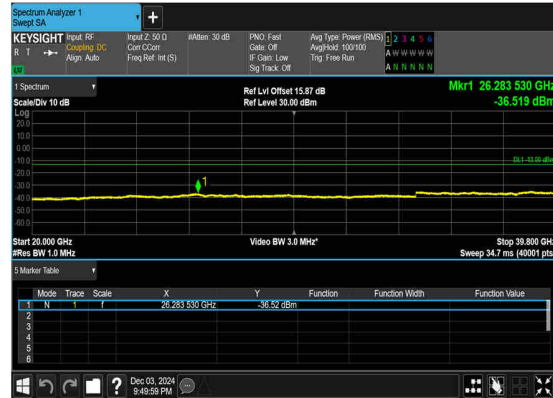
N77(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



N77(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



N77(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH

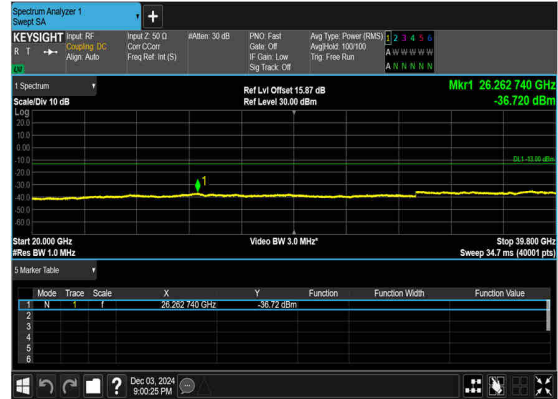




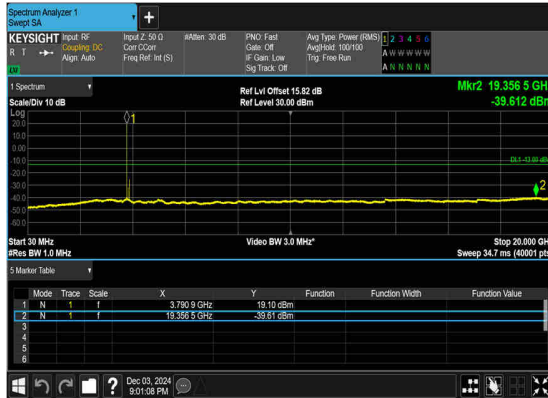
N77(100M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



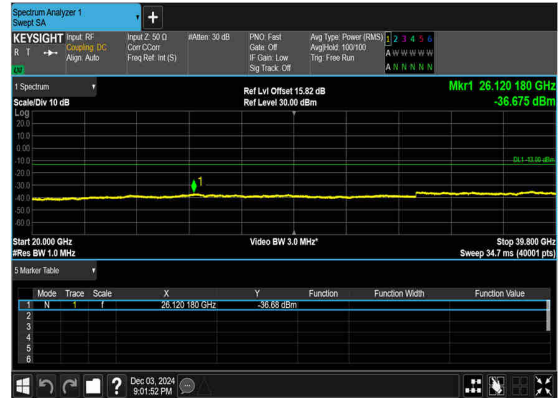
N77(100M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



N77(100M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



N77(100M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH

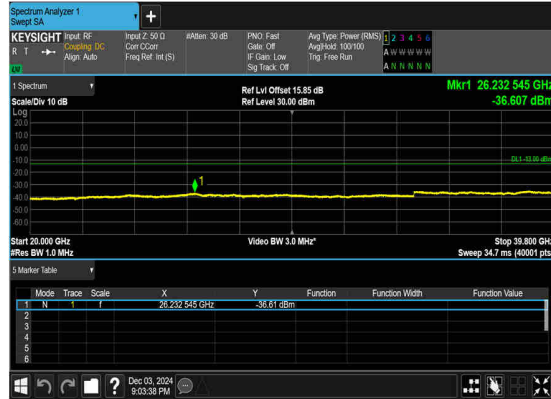




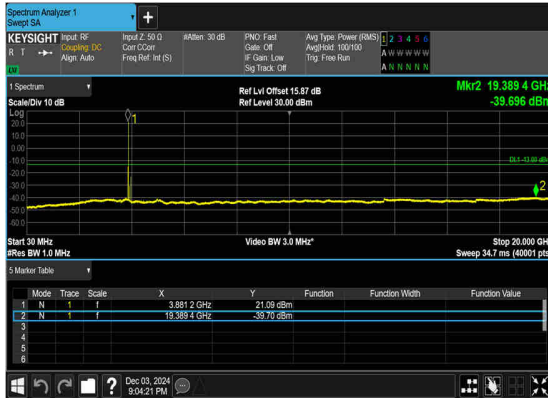
N77(100M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



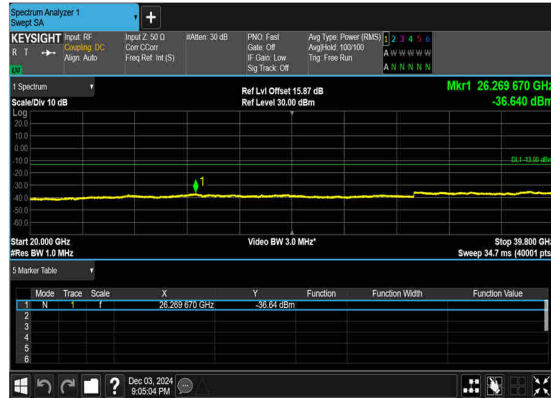
N77(100M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



N77(100M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH



N77(100M)_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	30	20	647334	3710.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	20	647334	3710.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	20	647334	3710.01	DFT-s-OFDM BPSK	50@0	see graph	PASS
77	30	20	647334	3710.01	DFT-s-OFDM QPSK	50@0	see graph	PASS
77	30	20	664666	3969.99	DFT-s-OFDM BPSK	1@50	see graph	PASS
77	30	20	664666	3969.99	DFT-s-OFDM QPSK	1@50	see graph	PASS
77	30	20	664666	3969.99	DFT-s-OFDM BPSK	50@0	see graph	PASS
77	30	20	664666	3969.99	DFT-s-OFDM QPSK	50@0	see graph	PASS
77	30	60	648668	3730.02	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	60	648668	3730.02	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	60	648668	3730.02	DFT-s-OFDM BPSK	162@0	see graph	PASS
77	30	60	648668	3730.02	DFT-s-OFDM QPSK	162@0	see graph	PASS
77	30	60	663332	3949.98	DFT-s-OFDM BPSK	1@161	see graph	PASS
77	30	60	663332	3949.98	DFT-s-OFDM QPSK	1@161	see graph	PASS
77	30	60	663332	3949.98	DFT-s-OFDM BPSK	162@0	see graph	PASS
77	30	60	663332	3949.98	DFT-s-OFDM QPSK	162@0	see graph	PASS
77	30	100	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	100	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	100	650000	3750.0	DFT-s-OFDM BPSK	270@0	see graph	PASS
77	30	100	650000	3750.0	DFT-s-OFDM QPSK	270@0	see graph	PASS
77	30	100	662000	3930.0	DFT-s-OFDM BPSK	1@272	see graph	PASS
77	30	100	662000	3930.0	DFT-s-OFDM QPSK	1@272	see graph	PASS
77	30	100	662000	3930.0	DFT-s-OFDM BPSK	270@0	see graph	PASS
77	30	100	662000	3930.0	DFT-s-OFDM QPSK	270@0	see graph	PASS



N77(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



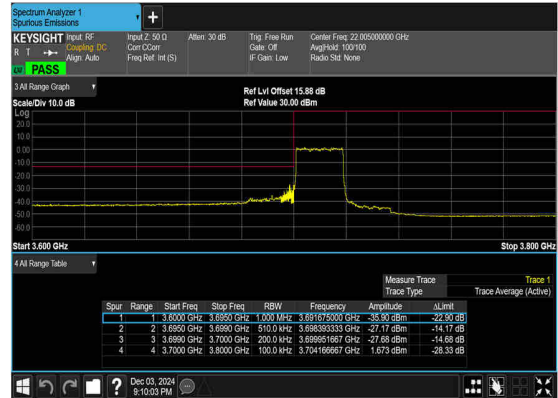
N77(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N77(20M)_DFT-s-
OFDM_BPSK_Outer_Full_Low_CH



N77(20M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH





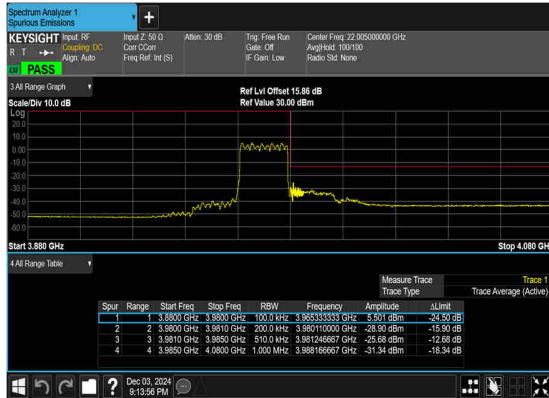
N77(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_High_CH



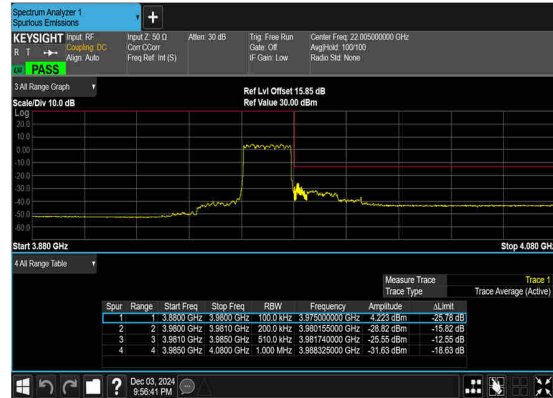
N77(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_High_CH



N77(20M)_DFT-s-
OFDM_BPSK_Outer_Full_High_CH

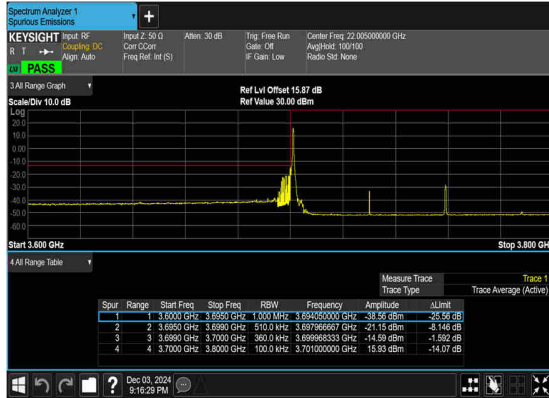


N77(20M)_DFT-s-
OFDM_QPSK_Outer_Full_High_CH

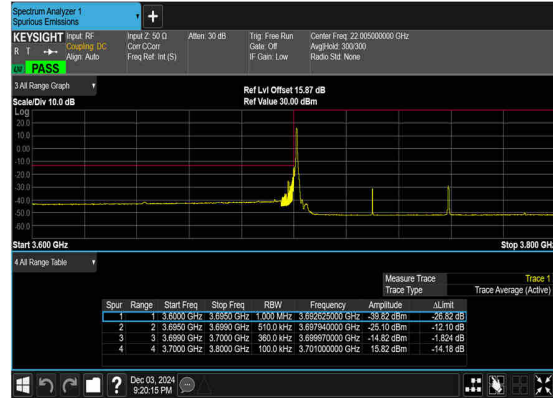




N77(60M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



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

