



FCC RF Test Report

FCC ID : UZ7ET401EB
EQUIPMENT : Enterprise Tablet
BRAND NAME : Zebra
MODEL NAME : ET401EB
APPLICANT : Zebra Technologies Corporation
3 Overlook Point, Lincolnshire, IL 60069 USA
MANUFACTURER : Zebra Technologies Corporation
3 Overlook Point, Lincolnshire, IL 60069 USA
STANDARD : 47 CFR Part 96
CLASSIFICATION : Citizens Band End User Devices (CBE)
EQUIPMENT TYPE : End User Equipment
TEST DATE(S) : Nov. 17, 2025 ~ Dec. 11, 2025

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

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

Fly Liang

Approved by: Fly Liang



Sporton International Inc. (ShenZhen)

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People's Republic of China



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History of this test report

Report No.	Version	Description	Issued Date
FG591015Q	01	Initial issue of report	Dec. 31, 2025

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	§2.1046	Conducted Output Power	Reporting only	-
-	§96.41	Peak-to-Average Ratio	Not Applicable	Not applicable for End User Devices
3.3	§96.41	Maximum E.I.R.P	Pass	-
		Maximum Power Spectral Density	Not Applicable	Not applicable for End User Devices
3.4	§2.1049 §96.41	Occupied Bandwidth	Reporting only	-
3.5	§2.1051 §96.41	Conducted Band Edge Measurement Adjacent Channel Leakage Ratio	Pass	-
3.6	§2.1051 §96.41	Conducted Spurious Emission	Pass	
3.7	§2.1055	Frequency Stability for Temperature & Voltage	Pass	-
4.4	§2.1051 §96.41	Radiated Spurious Emission	Pass	Under limit 3.37 dB at 10731.000 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 Feature of Equipment Under Test

Product Feature	
Equipment	Enterprise Tablet
Brand Name	Zebra
Model Name	ET401EB
FCC ID	UZ7ET401EB
IMEI Code	Conducted: 356424630002295 356424630002303 Radiation: 356424630012724/356424630012740
HW Version	EV2
SW Version	qssi_64-userdebug 15 15-11-10.00-VG-U00-PRD-ERS-04 777 release-keys
MFD	13SEP2025
EUT Stage	Identical Prototype

Remark:

1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
2. There are two types of EUT: Sample 1 without Scanner and Sample 2 with Scanner. According to the difference, we evaluated Sample 1 to perform full test.

Specification of Accessory				
Battery	Brand Name	Zebra	Model	BT-000528

Supported Unit used in test configuration and system				
AC Adapter 1 (TYPE C Wall Charger 1)	Brand Name	Zebra	Part Number	PWR-WUA5V45W1US
Earphone 1 (Wired headset USB-C)	Brand Name	Zebra	Part Number	HDST-USBC-PTT 1-01
Earphone 2 (Rugged Bluetooth Headset)	Brand Name	Zebra	Part Number	HS3100-0TH
Earphone 3 (3.5mm PTT Headset)	Brand Name	Zebra	Part Number	HDST-35MM-PTT 1-02
Earphone 4 (Rugged Headset)	Brand Name	Zebra	Part Number	HS2100-0TH
Type C-Audio Cable (Type C to 3.5mm)	Brand Name	Zebra	Part Number	ADP-USBC-35MM1-01
3.5mm to 3.5mm audio connector	Brand Name	Zebra	Part Number	CBL-HS2100-3MS1-01
USB Cable 1 (USB-C to C Cable)	Brand Name	Zebra	Part Number	CBL-EC5X-USBC3A-01
USB Cable 3 (USB-C to C Cable)	Brand Name	Zebra	Part Number	CBL-TN28-USBC2C-01

1.2 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Frequency	5G NR n48/n77/n78: 3550 MHz ~ 3700 MHz
SCS	30kHz
Bandwidth	n48:10MHz / 15MHz / 20MHz / 30MHz / 40MHz n77/n78:10MHz / 15MHz / 20MHz / 25MHz / 30MHz / 40MHz / 50MHz / 60MHz / 70MHz / 80MHz / 90MHz / 100MHz
Antenna Gain	<Ant. 3> 5G NR n77: 1.44 dBi 5G NR n78: 1.44 dBi <Ant. 4> 5G NR n77: 0.18 dBi 5G NR n78: 0.18 dBi <Ant. 8> 5G NR n48: 0.94 dBi 5G NR n77: 0.57 dBi 5G NR n78: 0.57 dBi <Ant. 9> 5G NR n48: 0.16 dBi 5G NR n77: 0.16 dBi 5G NR n78: 0.16 dBi
Type of Modulation	DFT-s-OFDM (PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM) CP-OFDM (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 n48 for Ant. 8, 5G NR n77/n78 for Ant. 3, 5G NR n48_UL MIMO for Ant.(8+9) and 5G NR n77/n78_UL MIMO for Ant.(3+9).
2. 5G NR n48 support SA mode for Ant.8 and UL MIMO mode for Ant.(8+9)
3. 5G NR n77/n78 support UL MIMO mode for Ant(8+9) / Ant(8+4)/ Ant(3+9) / Ant(3+4), only the worst test data of Ant(8+9) is shown in the report.
4. 5G NR n48/n77/n78 UL_MIMO mode, the MIMO mode is completely uncorrelated, so the directional gain is selected the maximum gain among all antennas.
5. For UL MIMO mode, the conducted BE/Spurious are tested at single antenna port and add $10 \cdot \log(NANT)$ according to KDB 662911 D01.
6. 5G NR n48/n77/n78 support SA mode and 5G NR n77/n78 support NSA mode for main PA. The whole testing has assessed SA mode for n77 by referring to the higher conducted power for conducted test items.
7. 5G NR n77/n78 support NSA mode for other PA. The whole testing has assessed NSA mode for n77 by referring to the higher conducted power for conducted test items.
8. For conducted test items, only the test data of Ant.8 for n77/n78 (main PA) and Ant. 9 for n77/n78 (Other PA) is showed in the report according to the maximum conducted power.
9. All the supported EN-DC combinations are verified conducted power, only the EN-DC combination with highest power are shown in the report.
10. The EN-DC mode combination could be referred to the product spec.



1.3 Maximum EIRP Power and Emission Designator

5G NR n48		PI/2 BPSK / QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
10	3555.00~3694.98	0.0635	8M58G7D	0.0656	8M58W7D
15	3557.52~3692.50	0.0679	13M6G7D	0.0689	13M6W7D
20	3560.01~3690.00	0.0681	18M2G7D	0.0678	18M2W7D
30	3564.99~3684.99	0.0687	27M8G7D	0.0693	27M9W7D
40	3570.00~3679.98	0.0701	37M9G7D	0.0700	37M9W7D

5G NR n48 UL MIMO		PI/2 BPSK / QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
10	3555.00~3694.98	0.0655	8M57G7D	0.0687	8M60W7D
15	3557.52~3692.50	0.0692	13M6G7D	0.0714	13M6W7D
20	3560.01~3690.00	0.0697	18M3G7D	0.0719	18M3W7D
30	3564.99~3684.99	0.0719	27M8G7D	0.0705	27M9W7D
40	3570.00~3679.98	0.0726	37M8G7D	0.0721	37M9W7D

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)
10	3555.00~3694.98	0.0757	8M60G7D	0.0605	8M59W7D
15	3557.52~3692.50	0.0780	13M6G7D	0.0657	13M6W7D
20	3560.01~3690.00	0.0778	18M2G7D	0.0662	18M2W7D
25	3562.50 ~ 3687.48	0.0771	23M2G7D	0.0644	23M3W7D
30	3564.99~3684.99	0.0773	27M9G7D	0.0668	27M9W7D
40	3570.00~3679.98	0.0774	37M9G7D	0.0705	37M9W7D
50	3575.01 ~ 3675.00	0.0774	47M5G7D	0.0652	47M6W7D
60	3580.02 ~ 3669.99	0.0782	57M9G7D	0.0662	57M9W7D
70	3585.00 ~ 3664.98	0.0780	67M6G7D	0.0628	67M7W7D
80	3590.01 ~ 3660.00	0.0764	77M4G7D	0.0635	77M7W7D
90	3595.02 ~ 3654.99	0.0774	87M5G7D	0.0624	87M8W7D
100	3600.00 ~ 3649.98	0.0782	97M6G7D	0.0627	97M6W7D



5G NR n77 UL MIMO		PI/2 BPSK / QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
10	3555.00~3694.98	0.1380	8M57G7D	0.1130	8M60W7D
15	3557.52~3692.50	0.1449	13M6G7D	0.1194	13M6W7D
20	3560.01~3690.00	0.1442	18M3G7D	0.1197	18M3W7D
25	3562.50 ~ 3687.48	0.1462	23M2G7D	0.1216	23M3W7D
30	3564.99~3684.99	0.1445	27M8G7D	0.1205	27M9W7D
40	3570.00~3679.98	0.1486	37M8G7D	0.1271	37M9W7D
50	3575.01 ~ 3675.00	0.1406	47M5G7D	0.1172	47M6W7D
60	3580.02 ~ 3669.99	0.1406	57M8G7D	0.1197	57M9W7D
70	3585.00 ~ 3664.98	0.1371	67M5G7D	0.1151	67M8W7D
80	3590.01 ~ 3660.00	0.1396	77M6G7D	0.1156	77M8W7D
90	3595.02 ~ 3654.99	0.1400	87M4G7D	0.1175	87M6W7D
100	3600.00 ~ 3649.98	0.1503	97M6G7D	0.1259	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)
10	3555.00~3694.98	0.0757	8M60G7D	0.0612	8M59W7D
15	3557.52~3692.50	0.0764	13M6G7D	0.0625	13M6W7D
20	3560.01~3690.00	0.0764	18M2G7D	0.0641	18M2W7D
25	3562.50 ~ 3687.48	0.0757	23M2G7D	0.0659	23M3W7D
30	3564.99~3684.99	0.0753	27M9G7D	0.0655	27M9W7D
40	3570.00~3679.98	0.0755	37M9G7D	0.0658	37M9W7D
50	3575.01 ~ 3675.00	0.0764	47M5G7D	0.0632	47M6W7D
60	3580.02 ~ 3669.99	0.0752	57M9G7D	0.0627	57M9W7D
70	3585.00 ~ 3664.98	0.0753	67M6G7D	0.0617	67M7W7D
80	3590.01 ~ 3660.00	0.0759	77M4G7D	0.0637	77M7W7D
90	3595.02 ~ 3654.99	0.0760	87M5G7D	0.0611	87M8W7D
100	3600.00 ~ 3649.98	0.0767	97M6G7D	0.0605	97M6W7D



5G NR n78 UL MIMO		PI/2 BPSK / QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
10	3555.00~3694.98	0.1352	8M57G7D	0.1084	8M60W7D
15	3557.52~3692.50	0.1416	13M6G7D	0.1164	13M6W7D
20	3560.01~3690.00	0.1419	18M3G7D	0.1175	18M3W7D
25	3562.50 ~ 3687.48	0.1409	23M2G7D	0.1191	23M3W7D
30	3564.99~3684.99	0.1462	27M8G7D	0.1191	27M9W7D
40	3570.00~3679.98	0.1419	37M8G7D	0.1211	37M9W7D
50	3575.01 ~ 3675.00	0.1371	47M5G7D	0.1138	47M6W7D
60	3580.02 ~ 3669.99	0.1346	57M8G7D	0.1138	57M9W7D
70	3585.00 ~ 3664.98	0.1343	67M5G7D	0.1119	67M8W7D
80	3590.01 ~ 3660.00	0.1334	77M6G7D	0.1127	77M8W7D
90	3595.02 ~ 3654.99	0.1343	87M4G7D	0.1143	87M6W7D
100	3600.00 ~ 3649.98	0.1472	97M6G7D	0.1183	97M7W7D

Note: 5G NR Band n77 overlaps the entire frequency range of Band n48/n78, and n77 power > n48/n78 power, therefore the conducted test results of n77 provided in this report cover n48/n78.

1.4 Testing Site

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

Test Firm	Sporton International Inc. (ShenZhen)		
Test Site Location	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 03CH02-SZ	CN1256	421272



1.5 Test Software

Item	Site	Manufacture	Name	Version
1.	03CH02-SZ	AUDIX	E3	6.2009-8-24a

1.6 Applied Standards

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

- ♦ ANSI C63.26-2015
- ♦ 47 CFR Part 96
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- ♦ FCC KDB 940660 D01 Part 96 CBRS v03r01
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01

Remark:

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



2 Test Configuration of Equipment Under Test

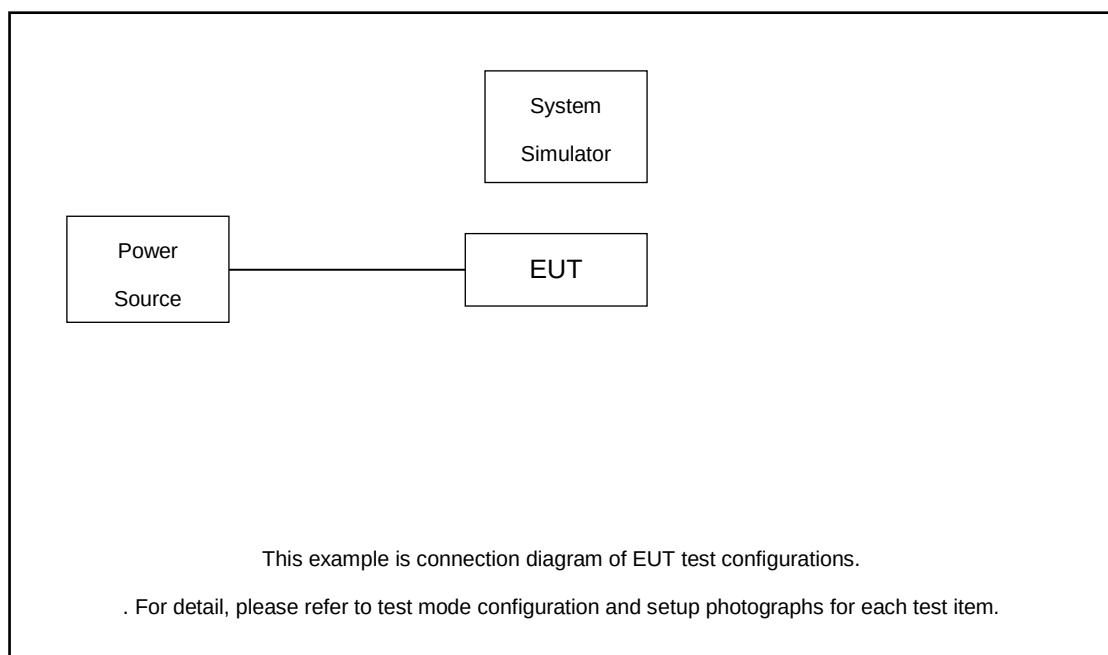
2.1 Test Mode

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

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

Test Items	5G NR	Bandwidth (MHz)												Modulation					RB #			Test Channel		
		10	15	20	25	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	n48	v	v	v	-	v	v	-	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v	v
	n77	v	v	v	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	v	v	v
26dB and 99% Bandwidth	n77	v	v	v	v	v	v	v	v	v	v	v	v		v	v	v	v			v		v	
Adjacent Channel Leakage Ratio	n77	v						v					v	v	v				v		v	v	v	v
Conducted Band Edge	n77	v						v					v	v	v				v		v	v	v	v
Conducted Spurious Emission	n77	v	v	v	v	v	v	v	v	v	v	v	v	v	v				v			v	v	v
Frequency Stability	n77			v											v						v	v	v	v
E.I.R.P	n48	v	v	v	-	v	v	-	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v	v
	n77	v	v	v	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	v	v	v
Radiated Spurious Emission	n48	Worst Case																				v		
	n77	Worst Case																				v		
	n78	Worst Case																				v		
Note	1. The mark "v " means that this configuration is chosen for testing 2. The mark "- " means that this bandwidth is not supported. 3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported. 4. Frequency Stability : Normal Voltage = 3.91V; Low Voltage =3.5V; High Voltage =4.45V.																							

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration

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

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 :

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



2.5 Frequency List of Low/Middle/High Channels

5G NR n48 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
40	Channel	638000	641666	645332
	Frequency	3570	3624.99	3679.98
30	Channel	637666	641666	645666
	Frequency	3564.99	3624.99	3684.99
20	Channel	637334	641666	646000
	Frequency	3560.01	3624.99	3690
15	Channel	637168	641666	646166
	Frequency	3557.52	3624.99	3692.49
10	Channel	637000	641666	646332
	Frequency	3555	3624.99	3694.98

5G NR 77/78 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
100	Channel	640000	641666	643332
	Frequency	3600	3624.99	3649.98
90	Channel	639668	641666	643666
	Frequency	3595.02	3624.99	3654.99
80	Channel	639334	641666	644000
	Frequency	3590.01	3624.99	3660
70	Channel	639000	641666	644332
	Frequency	3585	3624.99	3664.98
60	Channel	638668	641666	644666
	Frequency	3580.02	3624.99	3669.99
50	Channel	638334	641666	645000
	Frequency	3575.01	3624.99	3675
40	Channel	638000	641666	645332
	Frequency	3570	3624.99	3679.98
30	Channel	637666	641666	645666
	Frequency	3564.99	3624.99	3684.99
25	Channel	647500	641666	645832
	Frequency	3562.5	3624.99	3687.48



20	Channel	637334	641666	646000
	Frequency	3560.01	3624.99	3690
15	Channel	637168	641666	646166
	Frequency	3557.52	3624.99	3692.49
10	Channel	637000	641666	646332
	Frequency	3555	3624.99	3694.98

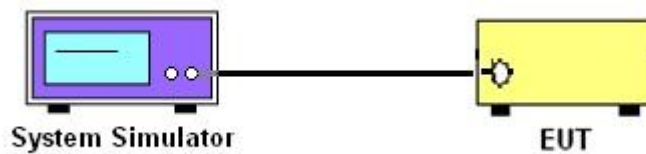
3 Conducted Test Items

3.1 Measuring Instruments

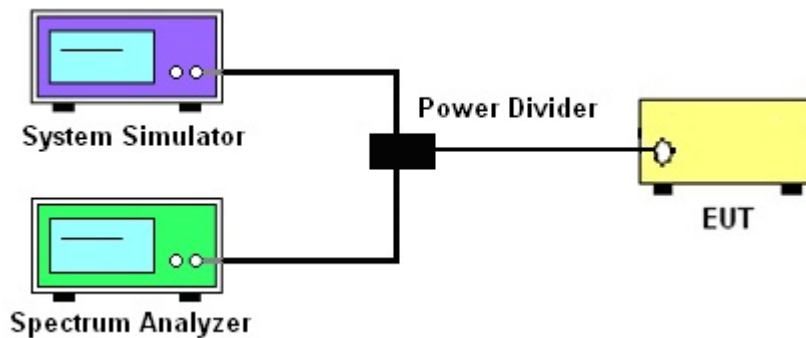
See list of measuring instruments of this test report.

3.1.1 Test Setup

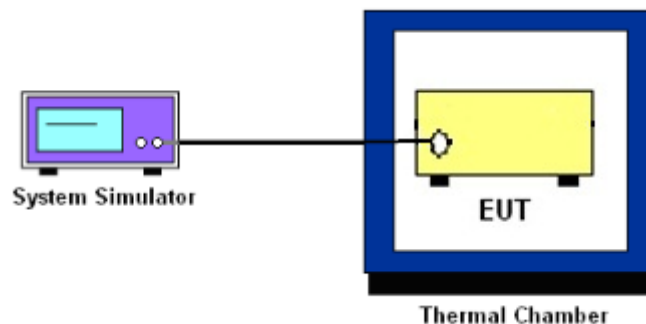
3.1.2 Conducted Output Power / ACLR



3.1.3 Occupied Bandwidth, Conducted Band-Edge and Conducted Spurious Emission



3.1.4 Frequency Stability



3.1.5 Test Result of Conducted Test

Please refer to Appendix A.



3.2 Conducted Output Power

3.2.1 Description of the Conducted Output Power 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.

3.2.2 Test Procedures

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

3.3 EIRP

3.3.1 Description of the EIRP Measurement

EIRP limits for CBRS equipment as below table:

Device		Maximum EIRP (dBm/10 MHz)	Maximum PSD (dBm/MHz)
Applied	End User Device	23	n/a
☐	Category A CBSD	30	20
☐	Category B CBSD	47	37

Remark: The worst case EIRP shown in this section is found with NR operating only using 1RB. As such, the EIRP/10MHz and full channel EIRP values will be identical since 1RB is fully contained within all available channel bandwidths for n48 (i.e. 10, 15, 20MHz...)

3.3.2 Test Procedures for EIRP

1. Establishing a communications link with the call box (Base station) to measure the Maximum conducted power, the parameters were set to force the EUT transmitting at maximum output power level. Use the average power measurement function to measure total channel power of each channel bandwidth (per ANSI C63.26-2015 Section 5.2.1)

2. Determining ERP and/or EIRP from conducted RF output power measurements (Per ANSI C63.26-2015 Section 5.2.5.5)

$$\text{EIRP} = P_T + G_T - L_C, \text{ ERP} = \text{EIRP} - 2.15, \text{ where}$$

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 Occupied Bandwidth

3.4.1 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.

3.4.2 Test Procedures

The testing follows ANSI C63.26-2015 Section 5.4.3 (26dB) and Section 5.4.4 (99OB)

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. 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.
3. 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.
4. Set the detection mode to peak, and the trace mode to max hold.
5. 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)
6. Determine the “-26 dB down amplitude” as equal to (Reference Value – X).
7. 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.
8. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.

3.5 Conducted Band Edge

3.5.1 Description of Conducted Band Edge Measurement

Part 96.41 (e) (1) (i)

For CBSD the emission limits outside the fundamental are as follows:

Within 0 MHz to 10 MHz above and below the assigned channel ≤ -13 dBm/MHz

Greater than 10 MHz above and below the assigned channel ≤ -25 dBm/MHz

Part 96.41 (e) (1) (ii)

For End User Devices the emission limits outside the fundamental are as follows:

Within 0 MHz to B MHz above and below the assigned channel ≤ -13 dBm/MHz

Greater than B MHz above and below the assigned channel ≤ -25 dBm/MHz

where B is the bandwidth in megahertz of the assigned channel or multiple contiguous channels of the End User Device.

Notwithstanding the emission limits in this paragraph, the Adjacent Channel Leakage Ratio for End User Devices shall be at least 30 dB.

Part 96.41 (e) (2)

For CBSDs and End User Devices, the conducted power of emissions below 3540 MHz or above 3710 MHz shall not exceed -25 dBm/MHz, and the conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed -40 dBm/MHz

3.5.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.1.

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The band edges of low and high channels for the highest RF powers were measured.
3. Set RBW $\geq 1\%$ EBW in the 1MHz band immediately outside and adjacent to the band edge.
4. Beyond the 1 MHz band from the band edge, RBW=1MHz was used
5. Offset has included the duty factor for LTE Band 48. Duty factor $=10 \log (1/x)$, where x is the measured duty cycle.
6. Set spectrum analyzer with RMS detector.
7. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.



3.6 Conducted Spurious Emission

3.6.1 Description of Conducted Spurious Emission Measurement

96.41 (e)(2)

The conducted power of any emissions below 3530 MHz or above 3720 MHz shall not exceed -40dBm/MHz.

3.6.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.1.

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. 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.
3. The middle channel for the highest RF power within the transmitting frequency was measured.
4. The conducted spurious emission for the whole frequency range was taken.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz.
6. Set spectrum analyzer with RMS detector.
7. Taking the record of maximum spurious emission.
8. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
9. The limit line is -40dBm/MHz.



3.7 Frequency Stability

3.7.1 Description of Frequency Stability Measurement

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

3.7.2 Test Procedures for Temperature Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

1. The EUT was set up in the thermal chamber and connected with the system simulator.
2. 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.
3. 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.

3.7.3 Test Procedures for Voltage Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

1. The EUT was placed in a temperature chamber at $25\pm 5^{\circ}\text{C}$ and connected with the system simulator.
2. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
3. The variation in frequency was measured for the worst case.

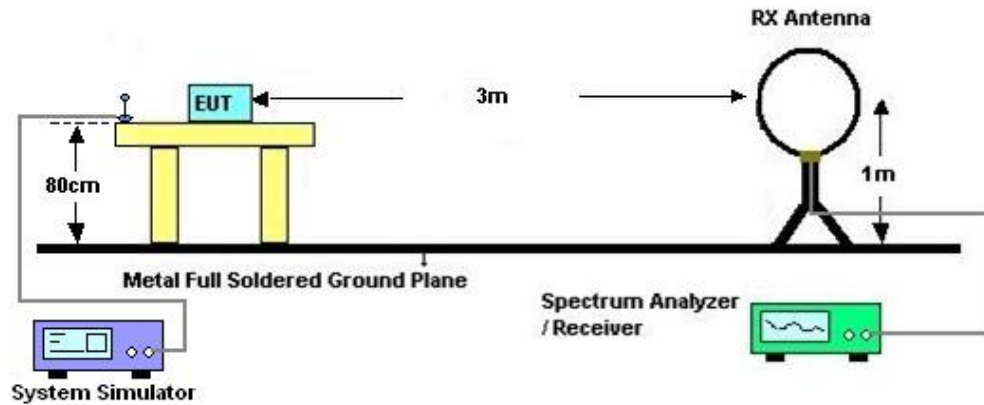
4 Radiated Test Items

4.1 Measuring Instruments

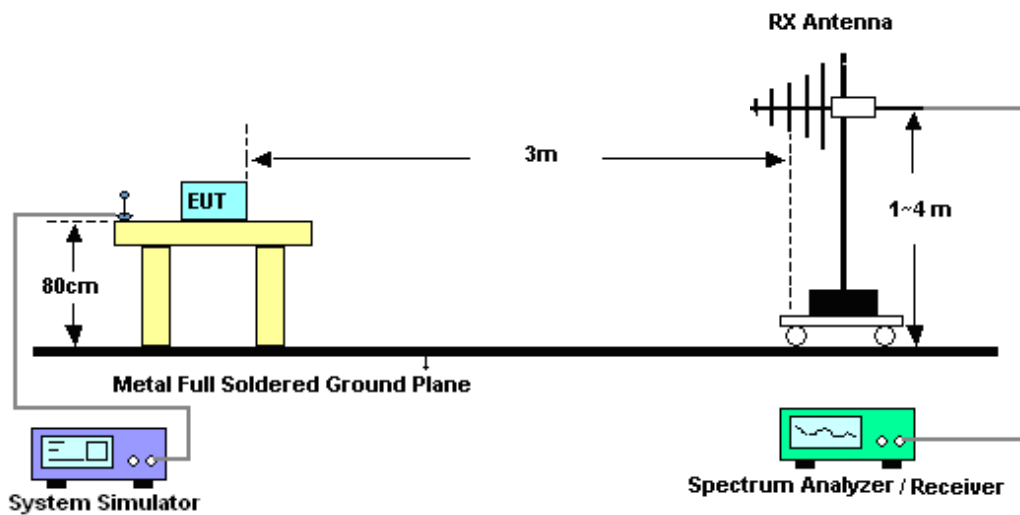
See list of measuring instruments of this test report.

4.2 Test Setup

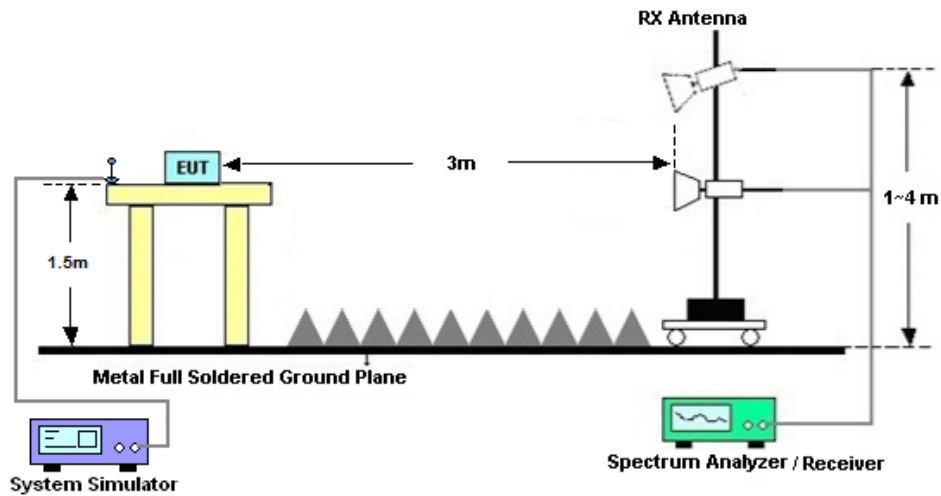
4.2.1 For radiated test below 30MHz



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 Measurement

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 -40dBm / MHz.

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

4.4.2 Test Procedures

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

The limit line is -40dBm/MHz



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. 02, 2025	Nov. 17, 2025~Dec. 11, 2025	Apr. 01, 2026	Conducted (TH01-SZ)
DC Power Supply	TTI	PL330P	290070	Max 32V, 3A	Oct. 13, 2025	Nov. 17, 2025~Dec. 11, 2025	Oct. 12, 2026	Conducted (TH01-SZ)
Power Divider	TOJOIN	PS-2SM-04265	60.06.020.0077	0.4GHz~26.5GHz	Dec. 24, 2024	Nov. 17, 2025~Dec. 11, 2025	Dec. 23, 2025	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 02, 2025	Nov. 17, 2025~Dec. 11, 2025	Jul. 01, 2026	Conducted (TH01-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 03, 2025	Nov. 29, 2025	Jul. 02, 2026	Radiation (03CH02-SZ)
Loop Antenna	R&S	HFH2-Z2E	101141	9kHz~30MHz	Dec. 28, 2024	Nov. 29, 2025	Dec. 27, 2025	Radiation (03CH02-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz~2GHz	Oct. 24, 2025	Nov. 29, 2025	Oct. 23, 2027	Radiation (03CH02-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Jul. 04, 2025	Nov. 29, 2025	Jul. 04, 2026	Radiation (03CH02-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 03, 2025	Nov. 29, 2025	Jul. 03, 2026	Radiation (03CH02-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18GHz~40GHz	Apr. 03, 2025	Nov. 29, 2025	Apr. 02, 2027	Radiation (03CH02-SZ)
LF Amplifier	EM Electronics	EM330	060788	20MHz~3GHz	Dec. 25, 2024	Nov. 29, 2025	Dec. 24, 2025	Radiation (03CH02-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270105	0.5GHz~26.5GHz	Oct. 14, 2025	Nov. 29, 2025	Oct. 13, 2026	Radiation (03CH02-SZ)
AC Power Source	Chroma	61601	616010003043	N/A	Oct. 18, 2025	Nov. 29, 2025	Oct. 17, 2026	Radiation (03CH02-SZ)
Turn Table	Chaintek	T-200	N/A	0~360 degree	NCR	Nov. 29, 2025	NCR	Radiation (03CH02-SZ)
Antenna Mast	Chaintek	MBS-400	N/A	1 m~4 m	NCR	Nov. 29, 2025	NCR	Radiation (03CH02-SZ)

NCR: No Calibration Required

6 Measurement Uncertainty

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 (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	2.47 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	3.31 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	3.72 dB
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----- THE END -----



Appendix A. Test Results of Conducted Test

Test Engineer :	Nina Cheng	Temperature :	24~26℃
		Relative Humidity :	50~53%



FR1 N48_ANT8

Transmitter Conducted Output Power And EIRP, ($G_T - L_C$)= 0.94 dB

NR Band	SCS	Band Width	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	EIRP(dBm)	EIRP(W)
48	30	10	637000	3555	DFT-s-OFDM QPSK	12@6	17.03	17.97	0.0627
48	30	10	637000	3555	DFT-s-OFDM QPSK	1@1	17.09	18.03	0.0635
48	30	10	637000	3555	DFT-s-OFDM QPSK	1@22	17	17.94	0.0622
48	30	10	637000	3555	DFT-s-OFDM 16 QAM	12@6	17.07	18.01	0.0632
48	30	10	637000	3555	DFT-s-OFDM 16 QAM	1@1	17.18	18.12	0.0649
48	30	10	637000	3555	DFT-s-OFDM 16 QAM	1@22	17.16	18.1	0.0646
48	30	10	641666	3624.99	DFT-s-OFDM QPSK	12@6	17.04	17.98	0.0628
48	30	10	641666	3624.99	DFT-s-OFDM QPSK	1@1	17.07	18.01	0.0632
48	30	10	641666	3624.99	DFT-s-OFDM QPSK	1@22	16.99	17.93	0.0621
48	30	10	641666	3624.99	DFT-s-OFDM 16 QAM	12@6	17.03	17.97	0.0627
48	30	10	641666	3624.99	DFT-s-OFDM 16 QAM	1@1	17.23	18.17	0.0656
48	30	10	641666	3624.99	DFT-s-OFDM 16 QAM	1@22	17.05	17.99	0.0630
48	30	10	646332	3694.98	DFT-s-OFDM QPSK	12@6	16.92	17.86	0.0611
48	30	10	646332	3694.98	DFT-s-OFDM QPSK	1@1	16.94	17.88	0.0614
48	30	10	646332	3694.98	DFT-s-OFDM QPSK	1@22	16.94	17.88	0.0614
48	30	10	646332	3694.98	DFT-s-OFDM 16 QAM	12@6	16.92	17.86	0.0611
48	30	10	646332	3694.98	DFT-s-OFDM 16 QAM	1@1	16.9	17.84	0.0608
48	30	10	646332	3694.98	DFT-s-OFDM 16 QAM	1@22	16.93	17.87	0.0612
48	30	15	637168	3557.52	DFT-s-OFDM QPSK	18@9	17.25	18.19	0.0659
48	30	15	637168	3557.52	DFT-s-OFDM QPSK	1@1	17.26	18.2	0.0661
48	30	15	637168	3557.52	DFT-s-OFDM QPSK	1@36	17.26	18.2	0.0661
48	30	15	637168	3557.52	DFT-s-OFDM 16 QAM	18@9	17.21	18.15	0.0653
48	30	15	637168	3557.52	DFT-s-OFDM 16 QAM	1@1	17.27	18.21	0.0662
48	30	15	637168	3557.52	DFT-s-OFDM 16 QAM	1@36	17.24	18.18	0.0658
48	30	15	641666	3624.99	DFT-s-OFDM QPSK	18@9	17.3	18.24	0.0667
48	30	15	641666	3624.99	DFT-s-OFDM QPSK	1@1	17.38	18.32	0.0679
48	30	15	641666	3624.99	DFT-s-OFDM QPSK	1@36	17.22	18.16	0.0655
48	30	15	641666	3624.99	DFT-s-OFDM 16 QAM	18@9	17.24	18.18	0.0658
48	30	15	641666	3624.99	DFT-s-OFDM 16 QAM	1@1	17.44	18.38	0.0689
48	30	15	641666	3624.99	DFT-s-OFDM 16 QAM	1@36	17.17	18.11	0.0647
48	30	15	646166	3692.49	DFT-s-OFDM QPSK	18@9	17.04	17.98	0.0628
48	30	15	646166	3692.49	DFT-s-OFDM QPSK	1@1	17.08	18.02	0.0634



48	30	15	646166	3692.49	DFT-s-OFDM QPSK	1@36	17.03	17.97	0.0627
48	30	15	646166	3692.49	DFT-s-OFDM 16 QAM	18@9	16.96	17.9	0.0617
48	30	15	646166	3692.49	DFT-s-OFDM 16 QAM	1@1	16.98	17.92	0.0619
48	30	15	646166	3692.49	DFT-s-OFDM 16 QAM	1@36	16.98	17.92	0.0619
48	30	20	637334	3560.01	DFT-s-OFDM QPSK	25@12	17.25	18.19	0.0659
48	30	20	637334	3560.01	DFT-s-OFDM QPSK	1@1	17.34	18.28	0.0673
48	30	20	637334	3560.01	DFT-s-OFDM QPSK	1@49	17.22	18.16	0.0655
48	30	20	637334	3560.01	DFT-s-OFDM 16 QAM	25@12	17.17	18.11	0.0647
48	30	20	637334	3560.01	DFT-s-OFDM 16 QAM	1@1	17.33	18.27	0.0671
48	30	20	637334	3560.01	DFT-s-OFDM 16 QAM	1@49	17.19	18.13	0.0650
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	25@12	17.28	18.22	0.0664
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	1@1	17.39	18.33	0.0681
48	30	20	641666	3624.99	DFT-s-OFDM QPSK	1@49	17.25	18.19	0.0659
48	30	20	641666	3624.99	DFT-s-OFDM 16 QAM	25@12	17.23	18.17	0.0656
48	30	20	641666	3624.99	DFT-s-OFDM 16 QAM	1@1	17.37	18.31	0.0678
48	30	20	641666	3624.99	DFT-s-OFDM 16 QAM	1@49	17.19	18.13	0.0650
48	30	20	646000	3690	DFT-s-OFDM QPSK	25@12	17.01	17.95	0.0624
48	30	20	646000	3690	DFT-s-OFDM QPSK	1@1	17.07	18.01	0.0632
48	30	20	646000	3690	DFT-s-OFDM QPSK	1@49	17.11	18.05	0.0638
48	30	20	646000	3690	DFT-s-OFDM 16 QAM	25@12	17.05	17.99	0.0630
48	30	20	646000	3690	DFT-s-OFDM 16 QAM	1@1	17.03	17.97	0.0627
48	30	20	646000	3690	DFT-s-OFDM 16 QAM	1@49	16.97	17.91	0.0618
48	30	30	637668	3565.02	DFT-s-OFDM QPSK	36@18	17.26	18.2	0.0661
48	30	30	637668	3565.02	DFT-s-OFDM QPSK	1@1	17.37	18.31	0.0678
48	30	30	637668	3565.02	DFT-s-OFDM QPSK	1@76	17.14	18.08	0.0643
48	30	30	637668	3565.02	DFT-s-OFDM 16 QAM	36@18	17.26	18.2	0.0661
48	30	30	637668	3565.02	DFT-s-OFDM 16 QAM	1@1	17.32	18.26	0.0670
48	30	30	637668	3565.02	DFT-s-OFDM 16 QAM	1@76	17.14	18.08	0.0643
48	30	30	641666	3624.99	DFT-s-OFDM QPSK	36@18	17.27	18.21	0.0662
48	30	30	641666	3624.99	DFT-s-OFDM QPSK	1@1	17.43	18.37	0.0687
48	30	30	641666	3624.99	DFT-s-OFDM QPSK	1@76	17.24	18.18	0.0658
48	30	30	641666	3624.99	DFT-s-OFDM 16 QAM	36@18	17.3	18.24	0.0667
48	30	30	641666	3624.99	DFT-s-OFDM 16 QAM	1@1	17.47	18.41	0.0693
48	30	30	641666	3624.99	DFT-s-OFDM 16 QAM	1@76	17.28	18.22	0.0664
48	30	40	638000	3570	DFT-s-OFDM PI/2 BPSK	50@25	17.26	18.2	0.0661
48	30	40	638000	3570	DFT-s-OFDM PI/2 BPSK	1@1	17.44	18.38	0.0689
48	30	40	638000	3570	DFT-s-OFDM PI/2 BPSK	1@104	17.27	18.21	0.0662
48	30	40	638000	3570	DFT-s-OFDM QPSK	50@25	17.25	18.19	0.0659



48	30	40	638000	3570	DFT-s-OFDM QPSK	1@1	17.45	18.39	0.0690
48	30	40	638000	3570	DFT-s-OFDM QPSK	1@104	17.19	18.13	0.0650
48	30	40	638000	3570	DFT-s-OFDM 16 QAM	50@25	17.23	18.17	0.0656
48	30	40	638000	3570	DFT-s-OFDM 16 QAM	1@1	17.49	18.43	0.0697
48	30	40	638000	3570	DFT-s-OFDM 16 QAM	1@104	17.26	18.2	0.0661
48	30	40	638000	3570	DFT-s-OFDM 64 QAM	50@25	17.3	18.24	0.0667
48	30	40	638000	3570	DFT-s-OFDM 64 QAM	1@1	17.37	18.31	0.0678
48	30	40	638000	3570	DFT-s-OFDM 64 QAM	1@104	17.17	18.11	0.0647
48	30	40	638000	3570	DFT-s-OFDM 256 QAM	50@25	17.2	18.14	0.0652
48	30	40	638000	3570	DFT-s-OFDM 256 QAM	1@1	17.33	18.27	0.0671
48	30	40	638000	3570	DFT-s-OFDM 256 QAM	1@104	17.12	18.06	0.0640
48	30	40	638000	3570	CP-OFDM QPSK	53@26	17.25	18.19	0.0659
48	30	40	638000	3570	CP-OFDM QPSK	1@1	17.34	18.28	0.0673
48	30	40	638000	3570	CP-OFDM QPSK	1@104	17.13	18.07	0.0641
48	30	40	641666	3624.99	DFT-s-OFDM PI/2 BPSK	50@25	17.29	18.23	0.0665
48	30	40	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@1	17.49	18.43	0.0697
48	30	40	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@104	17.37	18.31	0.0678
48	30	40	641666	3624.99	DFT-s-OFDM QPSK	50@25	17.3	18.24	0.0667
48	30	40	641666	3624.99	DFT-s-OFDM QPSK	1@1	17.52	18.46	0.0701
48	30	40	641666	3624.99	DFT-s-OFDM QPSK	1@104	17.35	18.29	0.0675
48	30	40	641666	3624.99	DFT-s-OFDM 16 QAM	50@25	17.27	18.21	0.0662
48	30	40	641666	3624.99	DFT-s-OFDM 16 QAM	1@1	17.51	18.45	0.0700
48	30	40	641666	3624.99	DFT-s-OFDM 16 QAM	1@104	17.33	18.27	0.0671
48	30	40	641666	3624.99	DFT-s-OFDM 64 QAM	50@25	17.32	18.26	0.0670
48	30	40	641666	3624.99	DFT-s-OFDM 64 QAM	1@1	17.46	18.4	0.0692
48	30	40	641666	3624.99	DFT-s-OFDM 64 QAM	1@104	17.28	18.22	0.0664
48	30	40	641666	3624.99	DFT-s-OFDM 256 QAM	50@25	17.27	18.21	0.0662
48	30	40	641666	3624.99	DFT-s-OFDM 256 QAM	1@1	17.39	18.33	0.0681
48	30	40	641666	3624.99	DFT-s-OFDM 256 QAM	1@104	17.19	18.13	0.0650
48	30	40	641666	3624.99	CP-OFDM QPSK	53@26	17.28	18.22	0.0664
48	30	40	641666	3624.99	CP-OFDM QPSK	1@1	17.45	18.39	0.0690
48	30	40	641666	3624.99	CP-OFDM QPSK	1@104	17.25	18.19	0.0659
48	30	40	645332	3679.98	DFT-s-OFDM PI/2 BPSK	50@25	17.2	18.14	0.0652
48	30	40	645332	3679.98	DFT-s-OFDM PI/2 BPSK	1@1	17.31	18.25	0.0668
48	30	40	645332	3679.98	DFT-s-OFDM PI/2 BPSK	1@104	17.15	18.09	0.0644
48	30	40	645332	3679.98	DFT-s-OFDM QPSK	50@25	17.11	18.05	0.0638
48	30	40	645332	3679.98	DFT-s-OFDM QPSK	1@1	17.24	18.18	0.0658
48	30	40	645332	3679.98	DFT-s-OFDM QPSK	1@104	17.16	18.1	0.0646



48	30	40	645332	3679.98	DFT-s-OFDM 16 QAM	50@25	17.13	18.07	0.0641
48	30	40	645332	3679.98	DFT-s-OFDM 16 QAM	1@1	17.34	18.28	0.0673
48	30	40	645332	3679.98	DFT-s-OFDM 16 QAM	1@104	17.16	18.1	0.0646
48	30	40	645332	3679.98	DFT-s-OFDM 64 QAM	50@25	17.17	18.11	0.0647
48	30	40	645332	3679.98	DFT-s-OFDM 64 QAM	1@1	17.26	18.2	0.0661
48	30	40	645332	3679.98	DFT-s-OFDM 64 QAM	1@104	17.11	18.05	0.0638
48	30	40	645332	3679.98	DFT-s-OFDM 256 QAM	50@25	17.13	18.07	0.0641
48	30	40	645332	3679.98	DFT-s-OFDM 256 QAM	1@1	17.14	18.08	0.0643
48	30	40	645332	3679.98	DFT-s-OFDM 256 QAM	1@104	16.99	17.93	0.0621
48	30	40	645332	3679.98	CP-OFDM QPSK	53@26	17.19	18.13	0.0650
48	30	40	645332	3679.98	CP-OFDM QPSK	1@1	17.25	18.19	0.0659
48	30	40	645332	3679.98	CP-OFDM QPSK	1@104	17.09	18.03	0.0635



FR1 N48 UL MIMO_ANT8+ANT9

Transmitter Conducted Output Power And EIRP, (G_T - L_C)= 0.94 dB

NR Band	SCS	Band Width	Arfcn	Freq (MHz)	Modulation	RB	ANT8 Power(dBm)	ANT9 Power(dBm)	Conducted Power(dBm)	EIRP(dBm)	EIRP(W)
48	30	10	637000	3555	CP-OFDM QPSK	12@6	13.89	14.39	17.16	18.1	0.0646
48	30	10	637000	3555	CP-OFDM QPSK	1@1	14.01	14.41	17.22	18.16	0.0655
48	30	10	637000	3555	CP-OFDM QPSK	1@22	13.96	14.38	17.19	18.13	0.0650
48	30	10	637000	3555	CP-OFDM 16 QAM	12@6	14.08	14.4	17.25	18.19	0.0659
48	30	10	637000	3555	CP-OFDM 16 QAM	1@1	14.03	14.78	17.43	18.37	0.0687
48	30	10	637000	3555	CP-OFDM 16 QAM	1@22	13.96	14.74	17.38	18.32	0.0679
48	30	10	641666	3624.99	CP-OFDM QPSK	12@6	13.99	14.37	17.19	18.13	0.0650
48	30	10	641666	3624.99	CP-OFDM QPSK	1@1	14.01	14.37	17.20	18.14	0.0652
48	30	10	641666	3624.99	CP-OFDM QPSK	1@22	13.96	14.41	17.20	18.14	0.0652
48	30	10	641666	3624.99	CP-OFDM 16 QAM	12@6	13.99	14.47	17.25	18.19	0.0659
48	30	10	641666	3624.99	CP-OFDM 16 QAM	1@1	14.12	14.68	17.42	18.36	0.0685
48	30	10	641666	3624.99	CP-OFDM 16 QAM	1@22	13.98	14.67	17.35	18.29	0.0675
48	30	10	646332	3694.98	CP-OFDM QPSK	12@6	13.78	14.23	17.02	17.96	0.0625
48	30	10	646332	3694.98	CP-OFDM QPSK	1@1	13.83	14.23	17.04	17.98	0.0628
48	30	10	646332	3694.98	CP-OFDM QPSK	1@22	13.82	14.18	17.01	17.95	0.0624
48	30	10	646332	3694.98	CP-OFDM 16 QAM	12@6	13.73	14.24	17.00	17.94	0.0622
48	30	10	646332	3694.98	CP-OFDM 16 QAM	1@1	13.68	14.5	17.12	18.06	0.0640
48	30	10	646332	3694.98	CP-OFDM 16 QAM	1@22	13.72	14.5	17.14	18.08	0.0643
48	30	15	637168	3557.52	CP-OFDM QPSK	19@9	14.2	14.64	17.44	18.38	0.0689
48	30	15	637168	3557.52	CP-OFDM QPSK	1@1	14.2	14.58	17.40	18.34	0.0682
48	30	15	637168	3557.52	CP-OFDM QPSK	1@36	14.15	14.6	17.39	18.33	0.0681
48	30	15	637168	3557.52	CP-OFDM 16 QAM	19@9	14.17	14.51	17.35	18.29	0.0675
48	30	15	637168	3557.52	CP-OFDM 16 QAM	1@1	14.28	14.87	17.60	18.54	0.0714
48	30	15	637168	3557.52	CP-OFDM 16 QAM	1@36	14.2	14.73	17.48	18.42	0.0695
48	30	15	641666	3624.99	CP-OFDM QPSK	19@9	14.2	14.57	17.40	18.34	0.0682
48	30	15	641666	3624.99	CP-OFDM QPSK	1@1	14.25	14.64	17.46	18.4	0.0692
48	30	15	641666	3624.99	CP-OFDM QPSK	1@36	14.1	14.51	17.32	18.26	0.0670
48	30	15	641666	3624.99	CP-OFDM 16 QAM	19@9	14.18	14.6	17.41	18.35	0.0684
48	30	15	641666	3624.99	CP-OFDM 16 QAM	1@1	14.43	14.62	17.54	18.48	0.0705
48	30	15	641666	3624.99	CP-OFDM 16 QAM	1@36	14.04	14.73	17.41	18.35	0.0684
48	30	15	646166	3692.49	CP-OFDM QPSK	19@9	13.87	14.31	17.11	18.05	0.0638
48	30	15	646166	3692.49	CP-OFDM QPSK	1@1	13.82	14.66	17.27	18.21	0.0662



48	30	15	646166	3692.49	CP-OFDM QPSK	1@36	13.92	14.36	17.16	18.1	0.0646
48	30	15	646166	3692.49	CP-OFDM 16 QAM	19@9	13.84	14.38	17.13	18.07	0.0641
48	30	15	646166	3692.49	CP-OFDM 16 QAM	1@1	13.85	14.68	17.30	18.24	0.0667
48	30	15	646166	3692.49	CP-OFDM 16 QAM	1@36	13.94	14.67	17.33	18.27	0.0671
48	30	20	637334	3560.01	CP-OFDM QPSK	25@12	14.19	14.66	17.44	18.38	0.0689
48	30	20	637334	3560.01	CP-OFDM QPSK	1@1	14.19	14.75	17.49	18.43	0.0697
48	30	20	637334	3560.01	CP-OFDM QPSK	1@49	14.08	14.57	17.34	18.28	0.0673
48	30	20	637334	3560.01	CP-OFDM 16 QAM	25@12	14.3	14.67	17.50	18.44	0.0698
48	30	20	637334	3560.01	CP-OFDM 16 QAM	1@1	14.27	14.55	17.42	18.36	0.0685
48	30	20	637334	3560.01	CP-OFDM 16 QAM	1@49	14.2	15	17.63	18.57	0.0719
48	30	20	641666	3624.99	CP-OFDM QPSK	25@12	14.16	14.63	17.41	18.35	0.0684
48	30	20	641666	3624.99	CP-OFDM QPSK	1@1	14.26	14.65	17.47	18.41	0.0693
48	30	20	641666	3624.99	CP-OFDM QPSK	1@49	14.05	14.49	17.29	18.23	0.0665
48	30	20	641666	3624.99	CP-OFDM 16 QAM	25@12	14.28	14.6	17.45	18.39	0.0690
48	30	20	641666	3624.99	CP-OFDM 16 QAM	1@1	14.33	14.87	17.62	18.56	0.0718
48	30	20	641666	3624.99	CP-OFDM 16 QAM	1@49	13.96	14.8	17.41	18.35	0.0684
48	30	20	646000	3690	CP-OFDM QPSK	25@12	13.89	14.33	17.13	18.07	0.0641
48	30	20	646000	3690	CP-OFDM QPSK	1@1	13.83	14.37	17.12	18.06	0.0640
48	30	20	646000	3690	CP-OFDM QPSK	1@49	13.88	14.44	17.18	18.12	0.0649
48	30	20	646000	3690	CP-OFDM 16 QAM	25@12	13.95	14.31	17.14	18.08	0.0643
48	30	20	646000	3690	CP-OFDM 16 QAM	1@1	13.85	14.62	17.26	18.2	0.0661
48	30	20	646000	3690	CP-OFDM 16 QAM	1@49	13.73	14.64	17.22	18.16	0.0655
48	30	30	637668	3565.02	CP-OFDM QPSK	39@19	14.18	14.59	17.40	18.34	0.0682
48	30	30	637668	3565.02	CP-OFDM QPSK	1@1	14.38	14.84	17.63	18.57	0.0719
48	30	30	637668	3565.02	CP-OFDM QPSK	1@76	13.96	14.54	17.27	18.21	0.0662
48	30	30	637668	3565.02	CP-OFDM 16 QAM	39@19	14.16	14.59	17.39	18.33	0.0681
48	30	30	637668	3565.02	CP-OFDM 16 QAM	1@1	14.41	14.55	17.49	18.43	0.0697
48	30	30	637668	3565.02	CP-OFDM 16 QAM	1@76	14.14	14.86	17.53	18.47	0.0703
48	30	30	641666	3624.99	CP-OFDM QPSK	39@19	14.18	14.53	17.37	18.31	0.0678
48	30	30	641666	3624.99	CP-OFDM QPSK	1@1	14.31	14.8	17.57	18.51	0.0710
48	30	30	641666	3624.99	CP-OFDM QPSK	1@76	14.08	14.44	17.27	18.21	0.0662
48	30	30	641666	3624.99	CP-OFDM 16 QAM	39@19	14.22	14.52	17.38	18.32	0.0679
48	30	30	641666	3624.99	CP-OFDM 16 QAM	1@1	14.4	14.52	17.47	18.41	0.0693
48	30	30	641666	3624.99	CP-OFDM 16 QAM	1@76	13.94	14.65	17.32	18.26	0.0670
48	30	30	645666	3684.99	CP-OFDM QPSK	39@19	14.05	14.49	17.29	18.23	0.0665
48	30	30	645666	3684.99	CP-OFDM QPSK	1@1	14.16	14.73	17.46	18.4	0.0692
48	30	30	645666	3684.99	CP-OFDM QPSK	1@76	13.87	14.36	17.13	18.07	0.0641
48	30	30	645666	3684.99	CP-OFDM 16 QAM	39@19	14.02	14.46	17.26	18.2	0.0661



48	30	30	645666	3684.99	CP-OFDM 16 QAM	1@1	14.01	15	17.54	18.48	0.0705
48	30	30	645666	3684.99	CP-OFDM 16 QAM	1@76	13.9	14.72	17.34	18.28	0.0673
48	30	40	638000	3570	CP-OFDM QPSK	53@26	14.26	14.52	17.40	18.34	0.0682
48	30	40	638000	3570	CP-OFDM QPSK	1@1	14.27	14.79	17.55	18.49	0.0706
48	30	40	638000	3570	CP-OFDM QPSK	1@104	14.19	14.55	17.38	18.32	0.0679
48	30	40	638000	3570	CP-OFDM 16 QAM	53@26	14.29	14.6	17.46	18.4	0.0692
48	30	40	638000	3570	CP-OFDM 16 QAM	1@1	14.54	14.62	17.59	18.53	0.0713
48	30	40	638000	3570	CP-OFDM 16 QAM	1@104	14.28	14.84	17.58	18.52	0.0711
48	30	40	638000	3570	CP-OFDM 64 QAM	53@26	14.13	14.51	17.33	18.27	0.0671
48	30	40	638000	3570	CP-OFDM 64 QAM	1@1	14.12	14.88	17.53	18.47	0.0703
48	30	40	638000	3570	CP-OFDM 64 QAM	1@104	13.97	14.53	17.27	18.21	0.0662
48	30	40	638000	3570	CP-OFDM 256 QAM	53@26	14.19	14.53	17.37	18.31	0.0678
48	30	40	638000	3570	CP-OFDM 256 QAM	1@1	14.28	14.79	17.55	18.49	0.0706
48	30	40	638000	3570	CP-OFDM 256 QAM	1@104	14.3	14.5	17.41	18.35	0.0684
48	30	40	641666	3624.99	CP-OFDM QPSK	53@26	14.31	14.62	17.48	18.42	0.0695
48	30	40	641666	3624.99	CP-OFDM QPSK	1@1	14.46	14.85	17.67	18.61	0.0726
48	30	40	641666	3624.99	CP-OFDM QPSK	1@104	14.14	14.68	17.43	18.37	0.0687
48	30	40	641666	3624.99	CP-OFDM 16 QAM	53@26	14.31	14.64	17.49	18.43	0.0697
48	30	40	641666	3624.99	CP-OFDM 16 QAM	1@1	14.4	14.52	17.47	18.41	0.0693
48	30	40	641666	3624.99	CP-OFDM 16 QAM	1@104	14.06	14.9	17.51	18.45	0.0700
48	30	40	641666	3624.99	CP-OFDM 64 QAM	53@26	14.16	14.7	17.45	18.39	0.0690
48	30	40	641666	3624.99	CP-OFDM 64 QAM	1@1	14.13	14.94	17.56	18.5	0.0708
48	30	40	641666	3624.99	CP-OFDM 64 QAM	1@104	13.93	14.6	17.29	18.23	0.0665
48	30	40	641666	3624.99	CP-OFDM 256 QAM	53@26	14.21	14.6	17.42	18.36	0.0685
48	30	40	641666	3624.99	CP-OFDM 256 QAM	1@1	14.44	14.82	17.64	18.58	0.0721
48	30	40	641666	3624.99	CP-OFDM 256 QAM	1@104	14.14	14.59	17.38	18.32	0.0679
48	30	40	645332	3679.98	CP-OFDM QPSK	53@26	14.02	14.54	17.30	18.24	0.0667
48	30	40	645332	3679.98	CP-OFDM QPSK	1@1	14.19	14.63	17.43	18.37	0.0687
48	30	40	645332	3679.98	CP-OFDM QPSK	1@104	14.03	14.58	17.32	18.26	0.0670
48	30	40	645332	3679.98	CP-OFDM 16 QAM	53@26	14.06	14.54	17.32	18.26	0.0670
48	30	40	645332	3679.98	CP-OFDM 16 QAM	1@1	14.11	14.86	17.51	18.45	0.0700
48	30	40	645332	3679.98	CP-OFDM 16 QAM	1@104	13.96	14.79	17.41	18.35	0.0684
48	30	40	645332	3679.98	CP-OFDM 64 QAM	53@26	13.94	14.56	17.27	18.21	0.0662
48	30	40	645332	3679.98	CP-OFDM 64 QAM	1@1	13.96	14.63	17.32	18.26	0.0670
48	30	40	645332	3679.98	CP-OFDM 64 QAM	1@104	13.79	14.58	17.21	18.15	0.0653
48	30	40	645332	3679.98	CP-OFDM 256 QAM	53@26	13.95	14.51	17.25	18.19	0.0659
48	30	40	645332	3679.98	CP-OFDM 256 QAM	1@1	14.25	14.61	17.44	18.38	0.0689
48	30	40	645332	3679.98	CP-OFDM 256 QAM	1@104	14.16	14.53	17.36	18.3	0.0676



Software Version: 23.06.1602

FR1 N77_ANT3

Transmitter Conducted Output Power And EIRP, (G_T - L_c)= 1.44 dB

NR Band	SCS	Bandwidth	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	EIRP(dBm)	EIRP(W)
77	30	10	637000	3555	DFT-s-OFDM QPSK	12@6	17.31	18.75	0.0750
77	30	10	637000	3555	DFT-s-OFDM QPSK	1@1	17.23	18.67	0.0736
77	30	10	637000	3555	DFT-s-OFDM QPSK	1@22	17.17	18.61	0.0726
77	30	10	637000	3555	DFT-s-OFDM 16 QAM	12@6	16.31	17.75	0.0596
77	30	10	637000	3555	DFT-s-OFDM 16 QAM	1@1	16.37	17.81	0.0604
77	30	10	637000	3555	DFT-s-OFDM 16 QAM	1@22	16.26	17.7	0.0589
77	30	10	641666	3624.99	DFT-s-OFDM QPSK	12@6	17.28	18.72	0.0745
77	30	10	641666	3624.99	DFT-s-OFDM QPSK	1@1	17.35	18.79	0.0757
77	30	10	641666	3624.99	DFT-s-OFDM QPSK	1@22	17.21	18.65	0.0733
77	30	10	641666	3624.99	DFT-s-OFDM 16 QAM	12@6	16.27	17.71	0.0590
77	30	10	641666	3624.99	DFT-s-OFDM 16 QAM	1@1	16.38	17.82	0.0605
77	30	10	641666	3624.99	DFT-s-OFDM 16 QAM	1@22	16.26	17.7	0.0589
77	30	10	646332	3694.98	DFT-s-OFDM QPSK	12@6	17.07	18.51	0.0710
77	30	10	646332	3694.98	DFT-s-OFDM QPSK	1@1	17.15	18.59	0.0723
77	30	10	646332	3694.98	DFT-s-OFDM QPSK	1@22	17.1	18.54	0.0714
77	30	10	646332	3694.98	DFT-s-OFDM 16 QAM	12@6	16.14	17.58	0.0573
77	30	10	646332	3694.98	DFT-s-OFDM 16 QAM	1@1	16.22	17.66	0.0583
77	30	10	646332	3694.98	DFT-s-OFDM 16 QAM	1@22	16.2	17.64	0.0581
77	30	15	637168	3557.52	DFT-s-OFDM QPSK	18@9	17.38	18.82	0.0762
77	30	15	637168	3557.52	DFT-s-OFDM QPSK	1@1	17.48	18.92	0.0780
77	30	15	637168	3557.52	DFT-s-OFDM QPSK	1@36	17.32	18.76	0.0752
77	30	15	637168	3557.52	DFT-s-OFDM 16 QAM	18@9	16.43	17.87	0.0612
77	30	15	637168	3557.52	DFT-s-OFDM 16 QAM	1@1	16.6	18.04	0.0637
77	30	15	637168	3557.52	DFT-s-OFDM 16 QAM	1@36	16.38	17.82	0.0605
77	30	15	641666	3624.99	DFT-s-OFDM QPSK	18@9	17.25	18.69	0.0740
77	30	15	641666	3624.99	DFT-s-OFDM QPSK	1@1	17.28	18.72	0.0745
77	30	15	641666	3624.99	DFT-s-OFDM QPSK	1@36	17.22	18.66	0.0735
77	30	15	641666	3624.99	DFT-s-OFDM 16 QAM	18@9	16.73	18.17	0.0656
77	30	15	641666	3624.99	DFT-s-OFDM 16 QAM	1@1	16.7	18.14	0.0652
77	30	15	641666	3624.99	DFT-s-OFDM 16 QAM	1@36	16.8	18.24	0.0667
77	30	15	646166	3692.49	DFT-s-OFDM QPSK	18@9	17.26	18.7	0.0741
77	30	15	646166	3692.49	DFT-s-OFDM QPSK	1@1	17.21	18.65	0.0733
77	30	15	646166	3692.49	DFT-s-OFDM QPSK	1@36	17.21	18.65	0.0733
77	30	15	646166	3692.49	DFT-s-OFDM 16 QAM	18@9	16.28	17.72	0.0592
77	30	15	646166	3692.49	DFT-s-OFDM 16 QAM	1@1	16.38	17.82	0.0605



77	30	15	646166	3692.49	DFT-s-OFDM 16 QAM	1@36	16.37	17.81	0.0604
77	30	20	637334	3560.01	DFT-s-OFDM QPSK	25@12	17.32	18.76	0.0752
77	30	20	637334	3560.01	DFT-s-OFDM QPSK	1@1	17.39	18.83	0.0764
77	30	20	637334	3560.01	DFT-s-OFDM QPSK	1@49	17.32	18.76	0.0752
77	30	20	637334	3560.01	DFT-s-OFDM 16 QAM	25@12	16.47	17.91	0.0618
77	30	20	637334	3560.01	DFT-s-OFDM 16 QAM	1@1	16.61	18.05	0.0638
77	30	20	637334	3560.01	DFT-s-OFDM 16 QAM	1@49	16.53	17.97	0.0627
77	30	20	641666	3624.99	DFT-s-OFDM QPSK	25@12	17.16	18.6	0.0724
77	30	20	641666	3624.99	DFT-s-OFDM QPSK	1@1	17.47	18.91	0.0778
77	30	20	641666	3624.99	DFT-s-OFDM QPSK	1@49	17.41	18.85	0.0767
77	30	20	641666	3624.99	DFT-s-OFDM 16 QAM	25@12	16.66	18.1	0.0646
77	30	20	641666	3624.99	DFT-s-OFDM 16 QAM	1@1	16.58	18.02	0.0634
77	30	20	641666	3624.99	DFT-s-OFDM 16 QAM	1@49	16.56	18	0.0631
77	30	20	646000	3690	DFT-s-OFDM QPSK	25@12	17.21	18.65	0.0733
77	30	20	646000	3690	DFT-s-OFDM QPSK	1@1	17.28	18.72	0.0745
77	30	20	646000	3690	DFT-s-OFDM QPSK	1@49	17.34	18.78	0.0755
77	30	20	646000	3690	DFT-s-OFDM 16 QAM	25@12	16.77	18.21	0.0662
77	30	20	646000	3690	DFT-s-OFDM 16 QAM	1@1	16.51	17.95	0.0624
77	30	20	646000	3690	DFT-s-OFDM 16 QAM	1@49	16.46	17.9	0.0617
77	30	25	647500	3562.5	DFT-s-OFDM QPSK	32@16	17.41	18.85	0.0767
77	30	25	647500	3562.5	DFT-s-OFDM QPSK	1@1	17.41	18.85	0.0767
77	30	25	647500	3562.5	DFT-s-OFDM QPSK	1@63	17.34	18.78	0.0755
77	30	25	647500	3562.5	DFT-s-OFDM 16 QAM	32@16	16.48	17.92	0.0619
77	30	25	647500	3562.5	DFT-s-OFDM 16 QAM	1@1	16.64	18.08	0.0643
77	30	25	647500	3562.5	DFT-s-OFDM 16 QAM	1@63	16.42	17.86	0.0611
77	30	25	641666	3624.99	DFT-s-OFDM QPSK	32@16	17.27	18.71	0.0743
77	30	25	641666	3624.99	DFT-s-OFDM QPSK	1@1	17.28	18.72	0.0745
77	30	25	641666	3624.99	DFT-s-OFDM QPSK	1@63	17.32	18.76	0.0752
77	30	25	641666	3624.99	DFT-s-OFDM 16 QAM	32@16	16.4	17.84	0.0608
77	30	25	641666	3624.99	DFT-s-OFDM 16 QAM	1@1	16.47	17.91	0.0618
77	30	25	641666	3624.99	DFT-s-OFDM 16 QAM	1@63	16.3	17.74	0.0594
77	30	25	648332	3724.98	DFT-s-OFDM QPSK	32@16	17.43	18.87	0.0771
77	30	25	648332	3724.98	DFT-s-OFDM QPSK	1@1	17.42	18.86	0.0769
77	30	25	648332	3724.98	DFT-s-OFDM QPSK	1@63	17.39	18.83	0.0764
77	30	25	648332	3724.98	DFT-s-OFDM 16 QAM	32@16	16.46	17.9	0.0617
77	30	25	648332	3724.98	DFT-s-OFDM 16 QAM	1@1	16.65	18.09	0.0644
77	30	25	648332	3724.98	DFT-s-OFDM 16 QAM	1@63	16.45	17.89	0.0615
77	30	30	637668	3565.02	DFT-s-OFDM QPSK	36@18	17.29	18.73	0.0746
77	30	30	637668	3565.02	DFT-s-OFDM QPSK	1@1	17.44	18.88	0.0773
77	30	30	637668	3565.02	DFT-s-OFDM QPSK	1@76	17.16	18.6	0.0724
77	30	30	637668	3565.02	DFT-s-OFDM 16 QAM	36@18	16.44	17.88	0.0614
77	30	30	637668	3565.02	DFT-s-OFDM 16 QAM	1@1	16.51	17.95	0.0624



77	30	30	637668	3565.02	DFT-s-OFDM 16 QAM	1@76	16.54	17.98	0.0628
77	30	30	641666	3624.99	DFT-s-OFDM QPSK	36@18	17.4	18.84	0.0766
77	30	30	641666	3624.99	DFT-s-OFDM QPSK	1@1	17.31	18.75	0.0750
77	30	30	641666	3624.99	DFT-s-OFDM QPSK	1@76	17.32	18.76	0.0752
77	30	30	641666	3624.99	DFT-s-OFDM 16 QAM	36@18	16.63	18.07	0.0641
77	30	30	641666	3624.99	DFT-s-OFDM 16 QAM	1@1	16.69	18.13	0.0650
77	30	30	641666	3624.99	DFT-s-OFDM 16 QAM	1@76	16.45	17.89	0.0615
77	30	30	645666	3684.99	DFT-s-OFDM QPSK	36@18	17.22	18.66	0.0735
77	30	30	645666	3684.99	DFT-s-OFDM QPSK	1@1	17.19	18.63	0.0729
77	30	30	645666	3684.99	DFT-s-OFDM QPSK	1@76	17.13	18.57	0.0719
77	30	30	645666	3684.99	DFT-s-OFDM 16 QAM	36@18	16.79	18.23	0.0665
77	30	30	645666	3684.99	DFT-s-OFDM 16 QAM	1@1	16.81	18.25	0.0668
77	30	30	645666	3684.99	DFT-s-OFDM 16 QAM	1@76	16.66	18.1	0.0646
77	30	40	638000	3570	DFT-s-OFDM QPSK	50@25	17.45	18.89	0.0774
77	30	40	638000	3570	DFT-s-OFDM QPSK	1@1	17.37	18.81	0.0760
77	30	40	638000	3570	DFT-s-OFDM QPSK	1@104	17.38	18.82	0.0762
77	30	40	638000	3570	DFT-s-OFDM 16 QAM	50@25	16.86	18.3	0.0676
77	30	40	638000	3570	DFT-s-OFDM 16 QAM	1@1	16.81	18.25	0.0668
77	30	40	638000	3570	DFT-s-OFDM 16 QAM	1@104	16.72	18.16	0.0655
77	30	40	641666	3624.99	DFT-s-OFDM QPSK	50@25	17.38	18.82	0.0762
77	30	40	641666	3624.99	DFT-s-OFDM QPSK	1@1	17.35	18.79	0.0757
77	30	40	641666	3624.99	DFT-s-OFDM QPSK	1@104	17.43	18.87	0.0771
77	30	40	641666	3624.99	DFT-s-OFDM 16 QAM	50@25	16.99	18.43	0.0697
77	30	40	641666	3624.99	DFT-s-OFDM 16 QAM	1@1	17.04	18.48	0.0705
77	30	40	641666	3624.99	DFT-s-OFDM 16 QAM	1@104	16.99	18.43	0.0697
77	30	40	645332	3679.98	DFT-s-OFDM QPSK	50@25	17.29	18.73	0.0746
77	30	40	645332	3679.98	DFT-s-OFDM QPSK	1@1	17.4	18.84	0.0766
77	30	40	645332	3679.98	DFT-s-OFDM QPSK	1@104	17.36	18.8	0.0759
77	30	40	645332	3679.98	DFT-s-OFDM 16 QAM	50@25	16.72	18.16	0.0655
77	30	40	645332	3679.98	DFT-s-OFDM 16 QAM	1@1	16.65	18.09	0.0644
77	30	40	645332	3679.98	DFT-s-OFDM 16 QAM	1@104	16.52	17.96	0.0625
77	30	50	638334	3575.01	DFT-s-OFDM QPSK	64@32	17.45	18.89	0.0774
77	30	50	638334	3575.01	DFT-s-OFDM QPSK	1@1	17.33	18.77	0.0753
77	30	50	638334	3575.01	DFT-s-OFDM QPSK	1@131	17.41	18.85	0.0767
77	30	50	638334	3575.01	DFT-s-OFDM 16 QAM	64@32	16.38	17.82	0.0605
77	30	50	638334	3575.01	DFT-s-OFDM 16 QAM	1@1	16.49	17.93	0.0621
77	30	50	638334	3575.01	DFT-s-OFDM 16 QAM	1@131	16.7	18.14	0.0652
77	30	50	641666	3624.99	DFT-s-OFDM QPSK	64@32	17.45	18.89	0.0774
77	30	50	641666	3624.99	DFT-s-OFDM QPSK	1@1	17.45	18.89	0.0774
77	30	50	641666	3624.99	DFT-s-OFDM QPSK	1@131	17.42	18.86	0.0769
77	30	50	641666	3624.99	DFT-s-OFDM 16 QAM	64@32	16.46	17.9	0.0617
77	30	50	641666	3624.99	DFT-s-OFDM 16 QAM	1@1	16.49	17.93	0.0621



77	30	50	641666	3624.99	DFT-s-OFDM 16 QAM	1@131	16.5	17.94	0.0622
77	30	50	645000	3675	DFT-s-OFDM QPSK	64@32	17.11	18.55	0.0716
77	30	50	645000	3675	DFT-s-OFDM QPSK	1@1	17.15	18.59	0.0723
77	30	50	645000	3675	DFT-s-OFDM QPSK	1@131	17.21	18.65	0.0733
77	30	50	645000	3675	DFT-s-OFDM 16 QAM	64@32	16.42	17.86	0.0611
77	30	50	645000	3675	DFT-s-OFDM 16 QAM	1@1	16.53	17.97	0.0627
77	30	50	645000	3675	DFT-s-OFDM 16 QAM	1@131	16.64	18.08	0.0643
77	30	60	638668	3580.02	DFT-s-OFDM QPSK	81@40	17.37	18.81	0.0760
77	30	60	638668	3580.02	DFT-s-OFDM QPSK	1@1	17.2	18.64	0.0731
77	30	60	638668	3580.02	DFT-s-OFDM QPSK	1@160	17.47	18.91	0.0778
77	30	60	638668	3580.02	DFT-s-OFDM 16 QAM	81@40	16.31	17.75	0.0596
77	30	60	638668	3580.02	DFT-s-OFDM 16 QAM	1@1	16.53	17.97	0.0627
77	30	60	638668	3580.02	DFT-s-OFDM 16 QAM	1@160	16.77	18.21	0.0662
77	30	60	641666	3624.99	DFT-s-OFDM QPSK	81@40	17.37	18.81	0.0760
77	30	60	641666	3624.99	DFT-s-OFDM QPSK	1@1	17.42	18.86	0.0769
77	30	60	641666	3624.99	DFT-s-OFDM QPSK	1@160	17.34	18.78	0.0755
77	30	60	641666	3624.99	DFT-s-OFDM 16 QAM	81@40	16.32	17.76	0.0597
77	30	60	641666	3624.99	DFT-s-OFDM 16 QAM	1@1	16.49	17.93	0.0621
77	30	60	641666	3624.99	DFT-s-OFDM 16 QAM	1@160	16.5	17.94	0.0622
77	30	60	644666	3669.99	DFT-s-OFDM QPSK	81@40	17.2	18.64	0.0731
77	30	60	644666	3669.99	DFT-s-OFDM QPSK	1@1	17.29	18.73	0.0746
77	30	60	644666	3669.99	DFT-s-OFDM QPSK	1@160	17.49	18.93	0.0782
77	30	60	644666	3669.99	DFT-s-OFDM 16 QAM	81@40	16.48	17.92	0.0619
77	30	60	644666	3669.99	DFT-s-OFDM 16 QAM	1@1	16.23	17.67	0.0585
77	30	60	644666	3669.99	DFT-s-OFDM 16 QAM	1@160	16.4	17.84	0.0608
77	30	70	639000	3585	DFT-s-OFDM QPSK	90@45	17.09	18.53	0.0713
77	30	70	639000	3585	DFT-s-OFDM QPSK	1@1	17.26	18.7	0.0741
77	30	70	639000	3585	DFT-s-OFDM QPSK	1@187	17.34	18.78	0.0755
77	30	70	639000	3585	DFT-s-OFDM 16 QAM	90@45	16.24	17.68	0.0586
77	30	70	639000	3585	DFT-s-OFDM 16 QAM	1@1	16.38	17.82	0.0605
77	30	70	639000	3585	DFT-s-OFDM 16 QAM	1@187	16.36	17.8	0.0603
77	30	70	641666	3624.99	DFT-s-OFDM QPSK	90@45	17.36	18.8	0.0759
77	30	70	641666	3624.99	DFT-s-OFDM QPSK	1@1	17.25	18.69	0.0740
77	30	70	641666	3624.99	DFT-s-OFDM QPSK	1@187	17.34	18.78	0.0755
77	30	70	641666	3624.99	DFT-s-OFDM 16 QAM	90@45	16.22	17.66	0.0583
77	30	70	641666	3624.99	DFT-s-OFDM 16 QAM	1@1	16.4	17.84	0.0608
77	30	70	641666	3624.99	DFT-s-OFDM 16 QAM	1@187	16.47	17.91	0.0618
77	30	70	644332	3664.98	DFT-s-OFDM QPSK	90@45	17.31	18.75	0.0750
77	30	70	644332	3664.98	DFT-s-OFDM QPSK	1@1	17.48	18.92	0.0780
77	30	70	644332	3664.98	DFT-s-OFDM QPSK	1@187	17.35	18.79	0.0757
77	30	70	644332	3664.98	DFT-s-OFDM 16 QAM	90@45	16.54	17.98	0.0628
77	30	70	644332	3664.98	DFT-s-OFDM 16 QAM	1@1	16.35	17.79	0.0601



77	30	70	644332	3664.98	DFT-s-OFDM 16 QAM	1@187	16.47	17.91	0.0618
77	30	80	639334	3590.01	DFT-s-OFDM QPSK	108@54	17.31	18.75	0.0750
77	30	80	639334	3590.01	DFT-s-OFDM QPSK	1@1	17.24	18.68	0.0738
77	30	80	639334	3590.01	DFT-s-OFDM QPSK	1@215	17.32	18.76	0.0752
77	30	80	639334	3590.01	DFT-s-OFDM 16 QAM	108@54	16.3	17.74	0.0594
77	30	80	639334	3590.01	DFT-s-OFDM 16 QAM	1@1	16.48	17.92	0.0619
77	30	80	639334	3590.01	DFT-s-OFDM 16 QAM	1@215	16.31	17.75	0.0596
77	30	80	641666	3624.99	DFT-s-OFDM QPSK	108@54	17.34	18.78	0.0755
77	30	80	641666	3624.99	DFT-s-OFDM QPSK	1@1	17.1	18.54	0.0714
77	30	80	641666	3624.99	DFT-s-OFDM QPSK	1@215	17.39	18.83	0.0764
77	30	80	641666	3624.99	DFT-s-OFDM 16 QAM	108@54	16.29	17.73	0.0593
77	30	80	641666	3624.99	DFT-s-OFDM 16 QAM	1@1	16.39	17.83	0.0607
77	30	80	641666	3624.99	DFT-s-OFDM 16 QAM	1@215	16.31	17.75	0.0596
77	30	80	644000	3660	DFT-s-OFDM QPSK	108@54	17.03	18.47	0.0703
77	30	80	644000	3660	DFT-s-OFDM QPSK	1@1	17.28	18.72	0.0745
77	30	80	644000	3660	DFT-s-OFDM QPSK	1@215	16.76	18.2	0.0661
77	30	80	644000	3660	DFT-s-OFDM 16 QAM	108@54	16.59	18.03	0.0635
77	30	80	644000	3660	DFT-s-OFDM 16 QAM	1@1	16.45	17.89	0.0615
77	30	80	644000	3660	DFT-s-OFDM 16 QAM	1@215	16.24	17.68	0.0586
77	30	90	639668	3595.02	DFT-s-OFDM QPSK	120@60	17.36	18.8	0.0759
77	30	90	639668	3595.02	DFT-s-OFDM QPSK	1@1	17.19	18.63	0.0729
77	30	90	639668	3595.02	DFT-s-OFDM QPSK	1@243	17.4	18.84	0.0766
77	30	90	639668	3595.02	DFT-s-OFDM 16 QAM	120@60	16.32	17.76	0.0597
77	30	90	639668	3595.02	DFT-s-OFDM 16 QAM	1@1	16.43	17.87	0.0612
77	30	90	639668	3595.02	DFT-s-OFDM 16 QAM	1@243	16.41	17.85	0.0610
77	30	90	641666	3624.99	DFT-s-OFDM QPSK	120@60	17.45	18.89	0.0774
77	30	90	641666	3624.99	DFT-s-OFDM QPSK	1@1	17.23	18.67	0.0736
77	30	90	641666	3624.99	DFT-s-OFDM QPSK	1@243	17.41	18.85	0.0767
77	30	90	641666	3624.99	DFT-s-OFDM 16 QAM	120@60	16.32	17.76	0.0597
77	30	90	641666	3624.99	DFT-s-OFDM 16 QAM	1@1	16.45	17.89	0.0615
77	30	90	641666	3624.99	DFT-s-OFDM 16 QAM	1@243	16.51	17.95	0.0624
77	30	90	643666	3654.99	DFT-s-OFDM QPSK	120@60	17.03	18.47	0.0703
77	30	90	643666	3654.99	DFT-s-OFDM QPSK	1@1	17.44	18.88	0.0773
77	30	90	643666	3654.99	DFT-s-OFDM QPSK	1@243	17.02	18.46	0.0701
77	30	90	643666	3654.99	DFT-s-OFDM 16 QAM	120@60	16.39	17.83	0.0607
77	30	90	643666	3654.99	DFT-s-OFDM 16 QAM	1@1	16.39	17.83	0.0607
77	30	90	643666	3654.99	DFT-s-OFDM 16 QAM	1@243	15.96	17.4	0.0550
77	30	100	640000	3600	DFT-s-OFDM PI/2 BPSK	135@67	16.49	17.93	0.0621
77	30	100	640000	3600	DFT-s-OFDM PI/2 BPSK	1@1	16.49	17.93	0.0621
77	30	100	640000	3600	DFT-s-OFDM PI/2 BPSK	1@271	16.19	17.63	0.0579
77	30	100	640000	3600	DFT-s-OFDM QPSK	135@67	17.16	18.6	0.0724



77	30	100	640000	3600	DFT-s-OFDM QPSK	1@1	17.16	18.6	0.0724
77	30	100	640000	3600	DFT-s-OFDM QPSK	1@271	17.49	18.93	0.0782
77	30	100	640000	3600	DFT-s-OFDM 16 QAM	135@67	16.16	17.6	0.0575
77	30	100	640000	3600	DFT-s-OFDM 16 QAM	1@1	16.37	17.81	0.0604
77	30	100	640000	3600	DFT-s-OFDM 16 QAM	1@271	16.35	17.79	0.0601
77	30	100	640000	3600	DFT-s-OFDM 64 QAM	135@67	14.16	15.6	0.0363
77	30	100	640000	3600	DFT-s-OFDM 64 QAM	1@1	14.34	15.78	0.0378
77	30	100	640000	3600	DFT-s-OFDM 64 QAM	1@271	14.33	15.77	0.0378
77	30	100	640000	3600	DFT-s-OFDM 256 QAM	135@67	13.52	14.96	0.0313
77	30	100	640000	3600	DFT-s-OFDM 256 QAM	1@1	13.63	15.07	0.0321
77	30	100	640000	3600	DFT-s-OFDM 256 QAM	1@271	13.28	14.72	0.0296
77	30	100	640000	3600	CP-OFDM QPSK	137@68	16.35	17.79	0.0601
77	30	100	640000	3600	CP-OFDM QPSK	1@1	16.44	17.88	0.0614
77	30	100	640000	3600	CP-OFDM QPSK	1@271	16.37	17.81	0.0604
77	30	100	641666	3624.99	DFT-s-OFDM PI/2 BPSK	135@67	16.53	17.97	0.0627
77	30	100	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@1	16.61	18.05	0.0638
77	30	100	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@271	16.24	17.68	0.0586
77	30	100	641666	3624.99	DFT-s-OFDM QPSK	135@67	17.14	18.58	0.0721
77	30	100	641666	3624.99	DFT-s-OFDM QPSK	1@1	17.26	18.7	0.0741
77	30	100	641666	3624.99	DFT-s-OFDM QPSK	1@271	17.37	18.81	0.0760
77	30	100	641666	3624.99	DFT-s-OFDM 16 QAM	135@67	16.24	17.68	0.0586
77	30	100	641666	3624.99	DFT-s-OFDM 16 QAM	1@1	16.48	17.92	0.0619
77	30	100	641666	3624.99	DFT-s-OFDM 16 QAM	1@271	16.48	17.92	0.0619
77	30	100	641666	3624.99	DFT-s-OFDM 64 QAM	135@67	14.19	15.63	0.0366
77	30	100	641666	3624.99	DFT-s-OFDM 64 QAM	1@1	14.52	15.96	0.0394
77	30	100	641666	3624.99	DFT-s-OFDM 64 QAM	1@271	14.05	15.49	0.0354
77	30	100	641666	3624.99	DFT-s-OFDM 256 QAM	135@67	13.43	14.87	0.0307
77	30	100	641666	3624.99	DFT-s-OFDM 256 QAM	1@1	13.51	14.95	0.0313
77	30	100	641666	3624.99	DFT-s-OFDM 256 QAM	1@271	13.53	14.97	0.0314
77	30	100	641666	3624.99	CP-OFDM QPSK	137@68	15.42	16.86	0.0485
77	30	100	641666	3624.99	CP-OFDM QPSK	1@1	15.46	16.9	0.0490
77	30	100	641666	3624.99	CP-OFDM QPSK	1@271	16.4	17.84	0.0608
77	30	100	643332	3649.98	DFT-s-OFDM PI/2 BPSK	135@67	16.39	17.83	0.0607
77	30	100	643332	3649.98	DFT-s-OFDM PI/2 BPSK	1@1	16.21	17.65	0.0582
77	30	100	643332	3649.98	DFT-s-OFDM PI/2 BPSK	1@271	16.23	17.67	0.0585
77	30	100	643332	3649.98	DFT-s-OFDM QPSK	135@67	17.46	18.9	0.0776
77	30	100	643332	3649.98	DFT-s-OFDM QPSK	1@1	17.36	18.8	0.0759
77	30	100	643332	3649.98	DFT-s-OFDM QPSK	1@271	16.95	18.39	0.0690
77	30	100	643332	3649.98	DFT-s-OFDM 16 QAM	135@67	16.53	17.97	0.0627
77	30	100	643332	3649.98	DFT-s-OFDM 16 QAM	1@1	16.49	17.93	0.0621



77	30	100	643332	3649.98	DFT-s-OFDM 16 QAM	1@271	16.11	17.55	0.0569
77	30	100	643332	3649.98	DFT-s-OFDM 64 QAM	135@67	14.45	15.89	0.0388
77	30	100	643332	3649.98	DFT-s-OFDM 64 QAM	1@1	14.5	15.94	0.0393
77	30	100	643332	3649.98	DFT-s-OFDM 64 QAM	1@271	14.07	15.51	0.0356
77	30	100	643332	3649.98	DFT-s-OFDM 256 QAM	135@67	13.51	14.95	0.0313
77	30	100	643332	3649.98	DFT-s-OFDM 256 QAM	1@1	13.44	14.88	0.0308
77	30	100	643332	3649.98	DFT-s-OFDM 256 QAM	1@271	13.53	14.97	0.0314
77	30	100	643332	3649.98	CP-OFDM QPSK	137@68	16.33	17.77	0.0598
77	30	100	643332	3649.98	CP-OFDM QPSK	1@1	16.48	17.92	0.0619
77	30	100	643332	3649.98	CP-OFDM QPSK	1@271	16.31	17.75	0.0596



FR1 N77_ANT8

Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (Hz)	Verdict	Environment
77	30	20	637334	3560.01	DFT-s-OFDM QPSK	50@0	15.6	PASS	NV
77	30	20	637334	3560.01	DFT-s-OFDM QPSK	50@0	16.6	PASS	LV
77	30	20	637334	3560.01	DFT-s-OFDM QPSK	50@0	10.7	PASS	HV
77	30	20	637334	3560.01	DFT-s-OFDM QPSK	50@0	18.5	PASS	-30°C
77	30	20	637334	3560.01	DFT-s-OFDM QPSK	50@0	17.7	PASS	-20°C
77	30	20	637334	3560.01	DFT-s-OFDM QPSK	50@0	10.8	PASS	-10°C
77	30	20	637334	3560.01	DFT-s-OFDM QPSK	50@0	13.3	PASS	0°C
77	30	20	637334	3560.01	DFT-s-OFDM QPSK	50@0	12.2	PASS	10°C
77	30	20	637334	3560.01	DFT-s-OFDM QPSK	50@0	15.6	PASS	20°C
77	30	20	637334	3560.01	DFT-s-OFDM QPSK	50@0	19.2	PASS	30°C
77	30	20	637334	3560.01	DFT-s-OFDM QPSK	50@0	14.4	PASS	40°C
77	30	20	637334	3560.01	DFT-s-OFDM QPSK	50@0	13.4	PASS	50°C
77	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	17.9	PASS	NV
77	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	18.3	PASS	LV
77	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	12.1	PASS	HV
77	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	16.8	PASS	-30°C
77	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	12.5	PASS	-20°C
77	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	13.8	PASS	-10°C
77	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	17.6	PASS	0°C
77	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	11.4	PASS	10°C
77	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	17.9	PASS	20°C



77	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	18.1	PASS	30°C
77	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	18.7	PASS	40°C
77	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	18.4	PASS	50°C
77	30	20	646000	3690	DFT-s-OFDM QPSK	50@0	11.8	PASS	NV
77	30	20	646000	3690	DFT-s-OFDM QPSK	50@0	19	PASS	LV
77	30	20	646000	3690	DFT-s-OFDM QPSK	50@0	18.3	PASS	HV
77	30	20	646000	3690	DFT-s-OFDM QPSK	50@0	15.9	PASS	-30°C
77	30	20	646000	3690	DFT-s-OFDM QPSK	50@0	15.3	PASS	-20°C
77	30	20	646000	3690	DFT-s-OFDM QPSK	50@0	12.2	PASS	-10°C
77	30	20	646000	3690	DFT-s-OFDM QPSK	50@0	11.7	PASS	0°C
77	30	20	646000	3690	DFT-s-OFDM QPSK	50@0	13.6	PASS	10°C
77	30	20	646000	3690	DFT-s-OFDM QPSK	50@0	11.8	PASS	20°C
77	30	20	646000	3690	DFT-s-OFDM QPSK	50@0	11.1	PASS	30°C
77	30	20	646000	3690	DFT-s-OFDM QPSK	50@0	19.1	PASS	40°C
77	30	20	646000	3690	DFT-s-OFDM QPSK	50@0	15.7	PASS	50°C

 $|\text{MAX}(\Delta f)| = 19.2\text{Hz}$

Frequency Stability	Frequency (MHz)	Limit Line	Result
$f_L - \text{MAX}(\Delta f) $	3550.859181	$\geq 3550 \text{ MHz}$	PASS
$f_H + \text{MAX}(\Delta f) $	3699.110919	$\leq 3700 \text{ MHz}$	

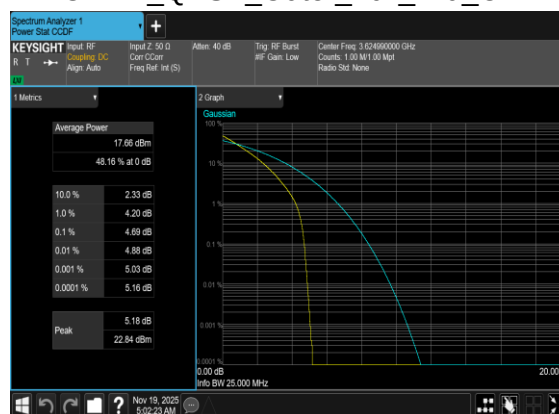
Peak to Average Ratio

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
77	30	20	641666	3624.99	DFT-s-OFDM PI/2 BPSK	50@0	3.98	13	PASS
77	30	20	641666	3624.99	DFT-s-OFDM QPSK	50@0	4.69	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**

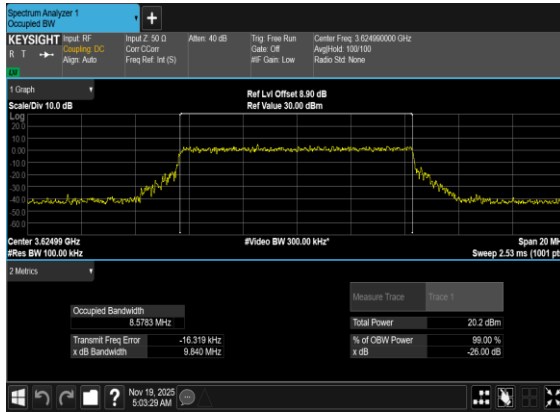
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
77	30	10	641666	3624.99	CP-OFDM QPSK	24@0	8.5783	9.84
77	30	10	641666	3624.99	CP-OFDM 16 QAM	24@0	8.5625	9.803
77	30	10	641666	3624.99	CP-OFDM 64 QAM	24@0	8.5687	9.463
77	30	10	641666	3624.99	CP-OFDM 256 QAM	24@0	8.5836	9.586
77	30	15	641666	3624.99	CP-OFDM QPSK	38@0	13.582	14.96
77	30	15	641666	3624.99	CP-OFDM 16 QAM	38@0	13.593	14.45
77	30	15	641666	3624.99	CP-OFDM 64 QAM	38@0	13.617	14.61
77	30	15	641666	3624.99	CP-OFDM 256 QAM	38@0	13.528	14.68
77	30	20	641666	3624.99	CP-OFDM QPSK	51@0	18.209	19.4
77	30	20	641666	3624.99	CP-OFDM 16 QAM	51@0	18.206	19.61
77	30	20	641666	3624.99	CP-OFDM 64 QAM	51@0	18.221	19.42
77	30	20	641666	3624.99	CP-OFDM 256 QAM	51@0	18.202	19.57
77	30	25	641666	3624.99	CP-OFDM QPSK	65@0	23.185	24.33
77	30	25	641666	3624.99	CP-OFDM 16 QAM	65@0	23.246	24.28
77	30	25	641666	3624.99	CP-OFDM 64 QAM	65@0	23.221	24.58
77	30	25	641666	3624.99	CP-OFDM 256 QAM	65@0	23.144	24.49
77	30	30	641666	3624.99	CP-OFDM QPSK	78@0	27.838	29.22
77	30	30	641666	3624.99	CP-OFDM 16 QAM	78@0	27.772	29.15
77	30	30	641666	3624.99	CP-OFDM 64 QAM	78@0	27.887	29.61
77	30	30	641666	3624.99	CP-OFDM 256 QAM	78@0	27.808	29.55
77	30	40	641666	3624.99	CP-OFDM QPSK	106@0	37.906	39.14
77	30	40	641666	3624.99	CP-OFDM 16 QAM	106@0	37.849	39.62
77	30	40	641666	3624.99	CP-OFDM 64 QAM	106@0	37.88	39.21
77	30	40	641666	3624.99	CP-OFDM 256 QAM	106@0	37.801	39.32



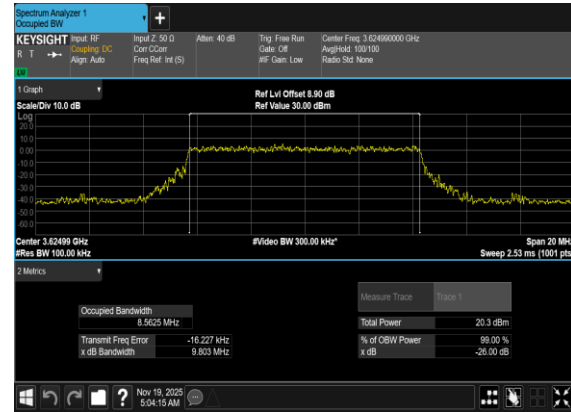
77	30	50	641666	3624.99	CP-OFDM QPSK	133@0	47.38	49.3
77	30	50	641666	3624.99	CP-OFDM 16 QAM	133@0	47.575	48.99
77	30	50	641666	3624.99	CP-OFDM 64 QAM	133@0	47.631	49.04
77	30	50	641666	3624.99	CP-OFDM 256 QAM	133@0	47.358	49.17
77	30	60	641666	3624.99	CP-OFDM QPSK	162@0	57.904	59.93
77	30	60	641666	3624.99	CP-OFDM 16 QAM	162@0	57.84	59.67
77	30	60	641666	3624.99	CP-OFDM 64 QAM	162@0	57.825	59.97
77	30	60	641666	3624.99	CP-OFDM 256 QAM	162@0	57.701	59.65
77	30	70	641666	3624.99	CP-OFDM QPSK	189@0	67.579	69.85
77	30	70	641666	3624.99	CP-OFDM 16 QAM	189@0	67.54	69.62
77	30	70	641666	3624.99	CP-OFDM 64 QAM	189@0	67.712	69.72
77	30	70	641666	3624.99	CP-OFDM 256 QAM	189@0	67.536	69.74
77	30	80	641666	3624.99	CP-OFDM QPSK	217@0	77.378	79.9
77	30	80	641666	3624.99	CP-OFDM 16 QAM	217@0	77.469	80.01
77	30	80	641666	3624.99	CP-OFDM 64 QAM	217@0	77.656	79.99
77	30	80	641666	3624.99	CP-OFDM 256 QAM	217@0	77.569	80.42
77	30	90	641666	3624.99	CP-OFDM QPSK	245@0	87.478	90.2
77	30	90	641666	3624.99	CP-OFDM 16 QAM	245@0	87.397	90.22
77	30	90	641666	3624.99	CP-OFDM 64 QAM	245@0	87.358	90.46
77	30	90	641666	3624.99	CP-OFDM 256 QAM	245@0	87.757	90.18
77	30	100	641666	3624.99	CP-OFDM QPSK	273@0	97.596	100.8
77	30	100	641666	3624.99	CP-OFDM 16 QAM	273@0	97.528	100.6
77	30	100	641666	3624.99	CP-OFDM 64 QAM	273@0	97.566	100.5
77	30	100	641666	3624.99	CP-OFDM 256 QAM	273@0	97.284	100.4



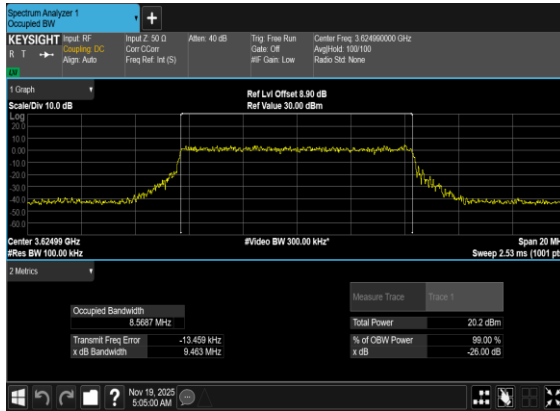
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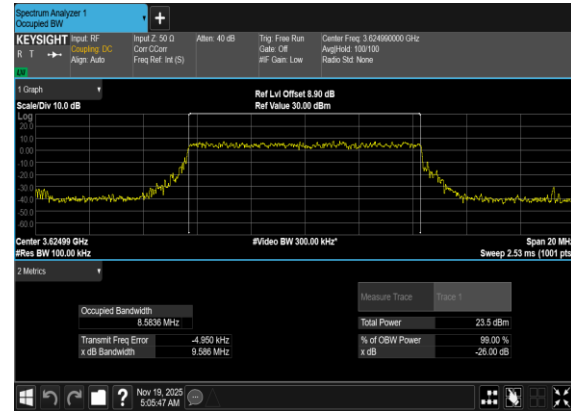
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QAM_Outer_Full_Mid_CH



N77(10M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

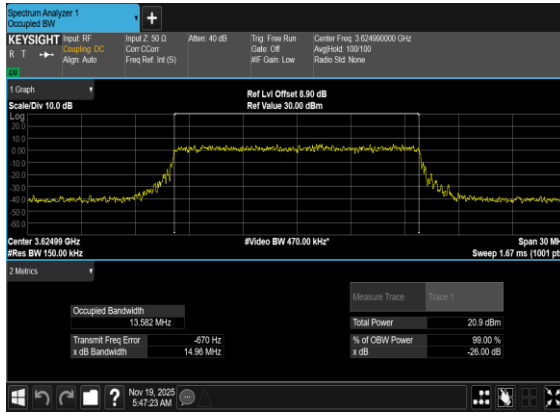


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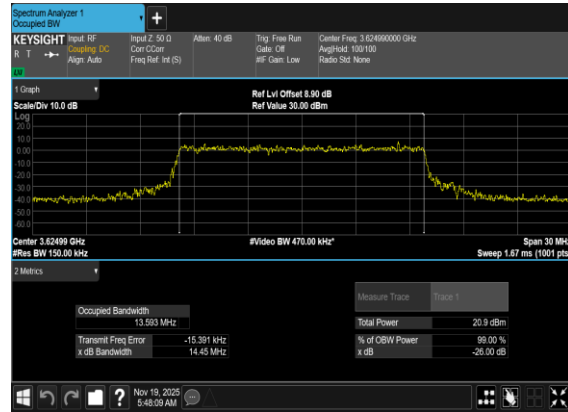




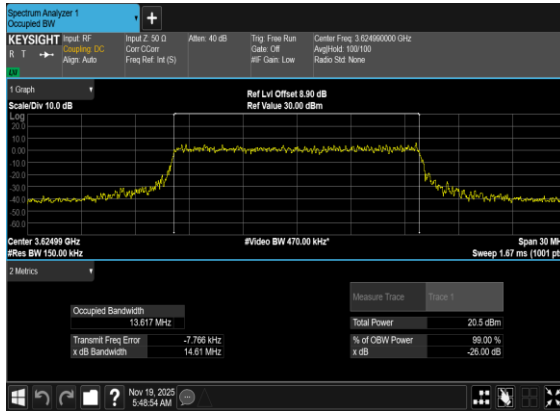
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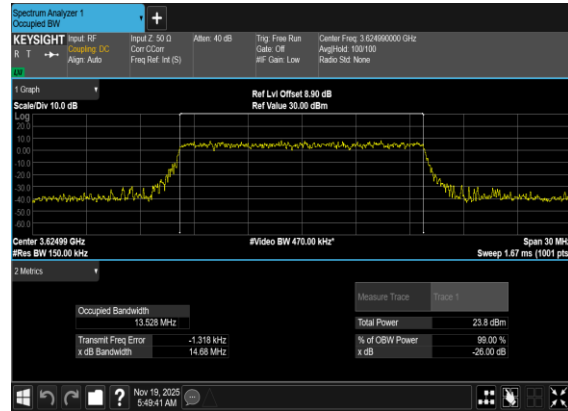
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QAM_Outer_Full_Mid_CH



N77(15M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

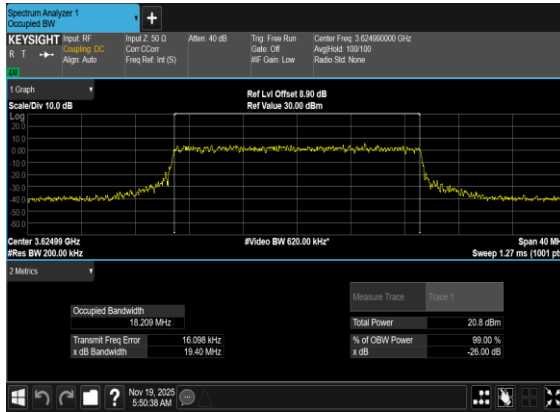


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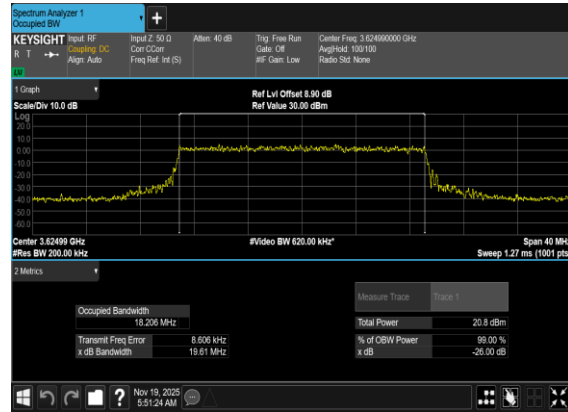




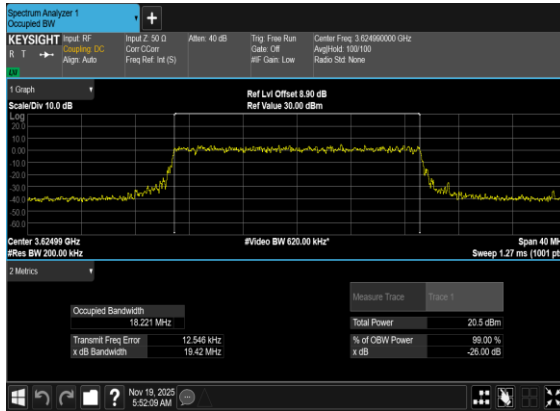
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OFDM_QPSK_Outer_Full_Mid_CH



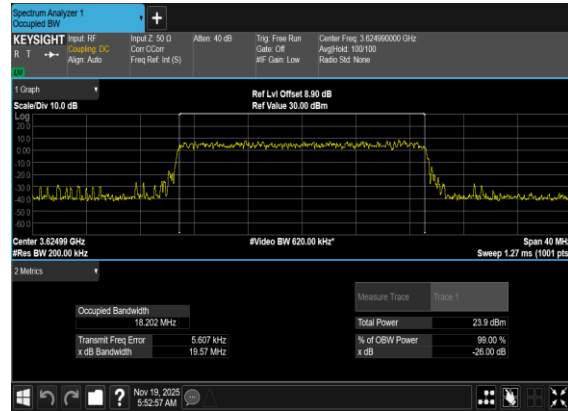
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QAM_Outer_Full_Mid_CH



N77(20M)_CP-OFDM_64
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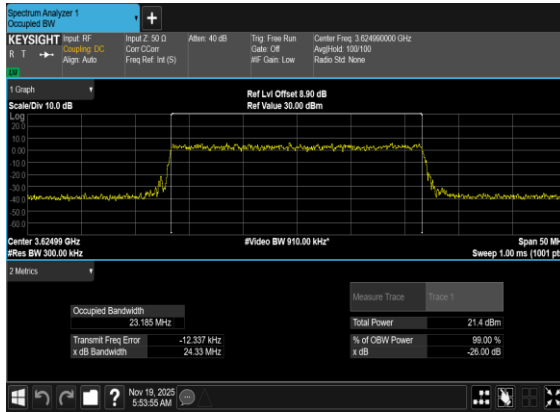


N77(20M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

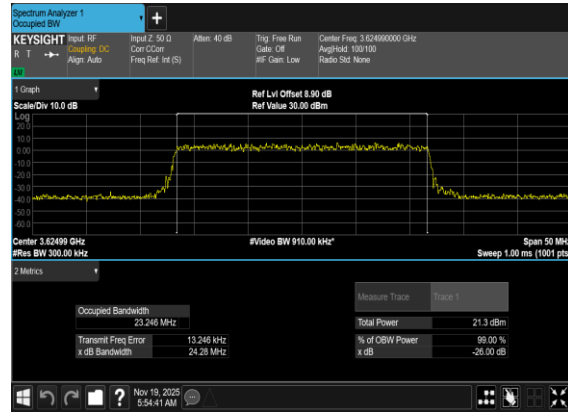




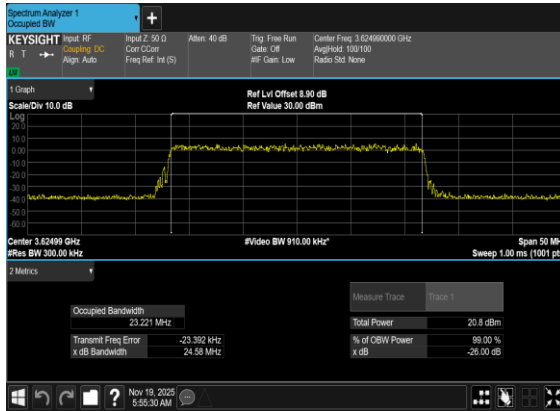
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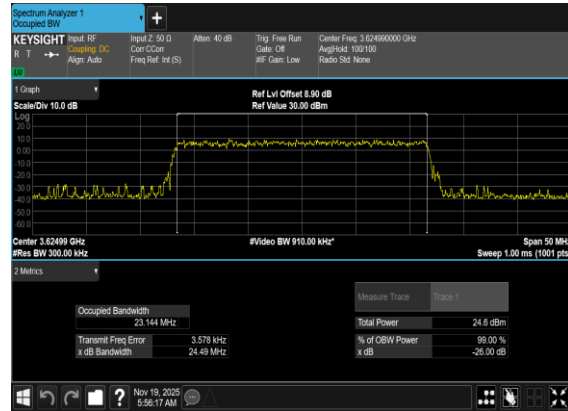
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QAM_Outer_Full_Mid_CH

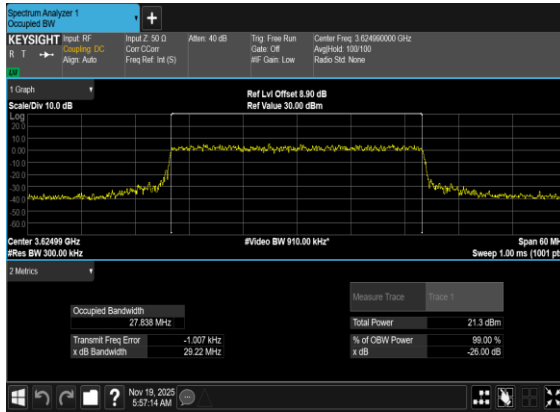


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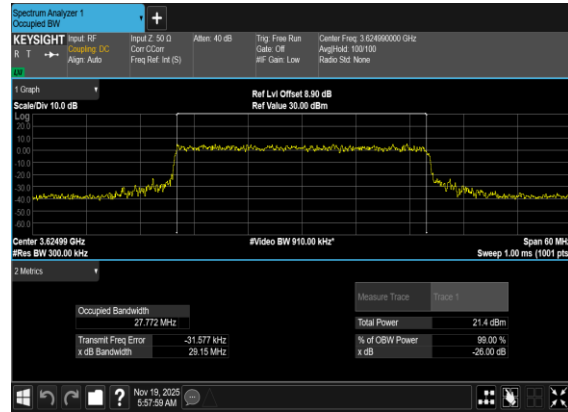




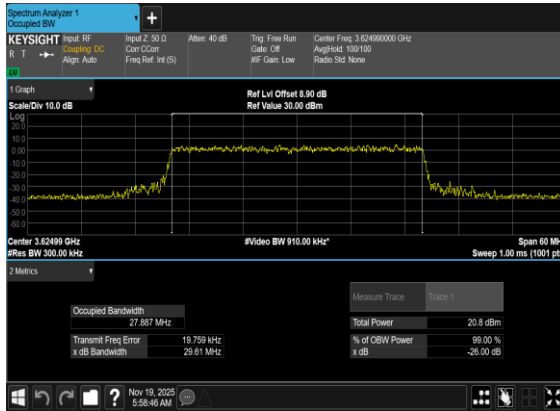
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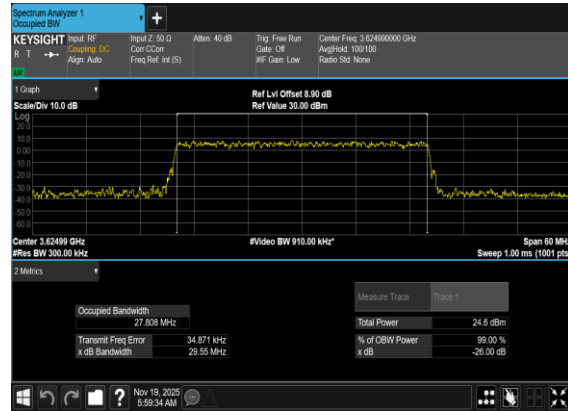
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QAM_Outer_Full_Mid_CH



N77(30M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

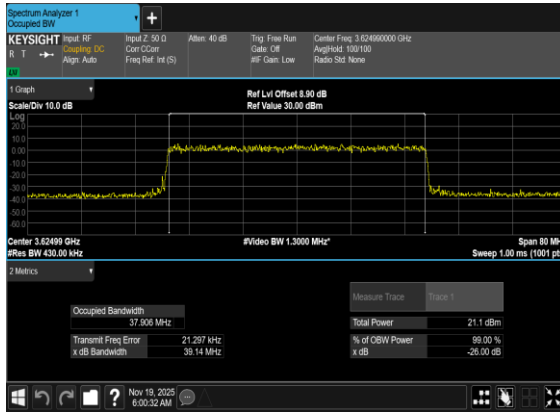


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QAM_Outer_Full_Mid_CH

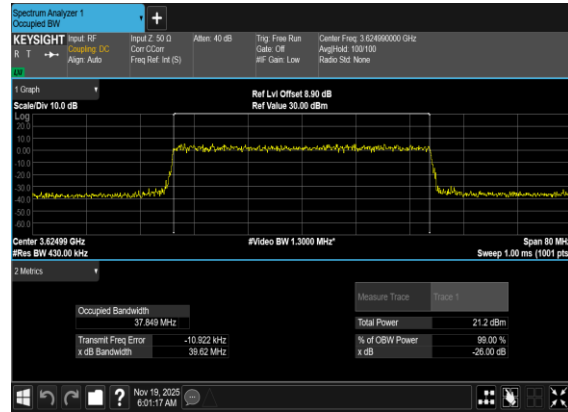




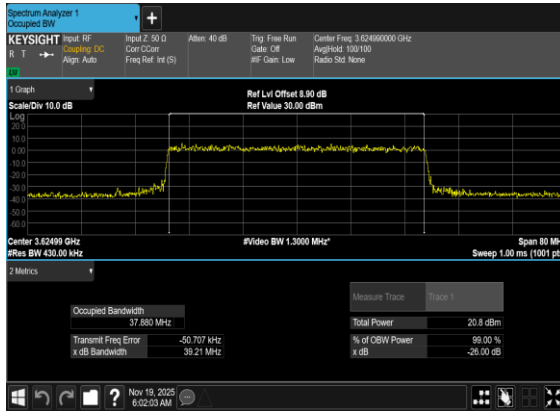
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OFDM_QPSK_Outer_Full_Mid_CH



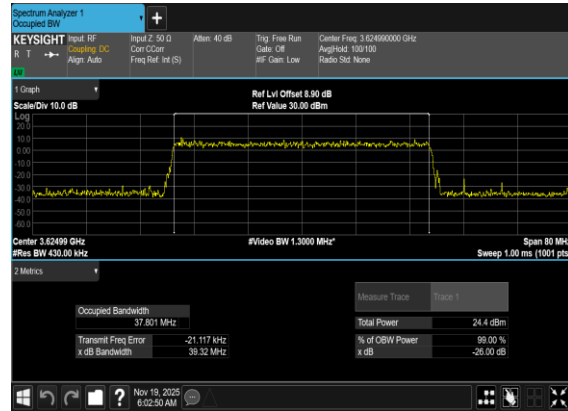
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QAM_Outer_Full_Mid_CH



N77(40M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

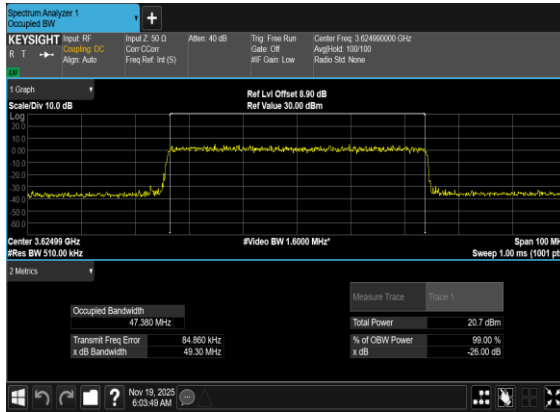


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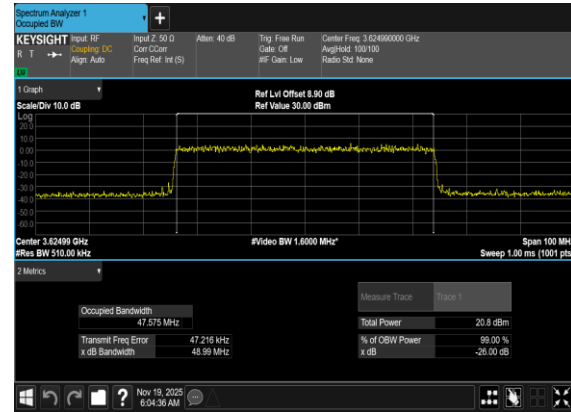




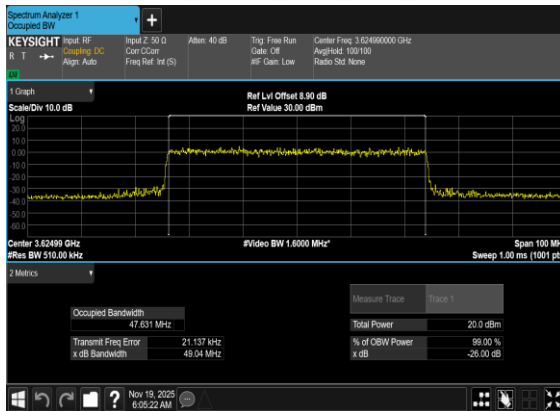
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OFDM_QPSK_Outer_Full_Mid_CH



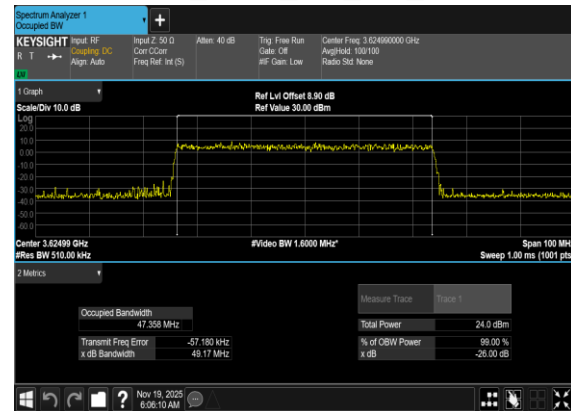
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QAM_Outer_Full_Mid_CH



N77(50M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

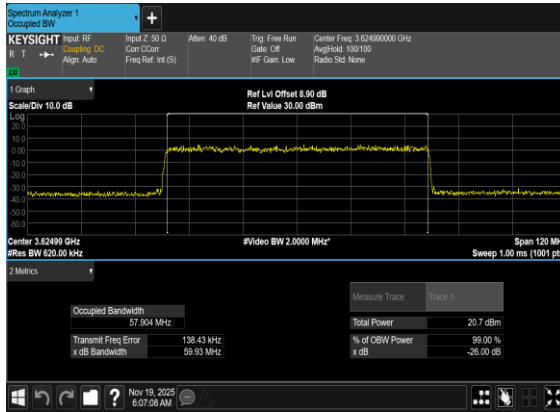


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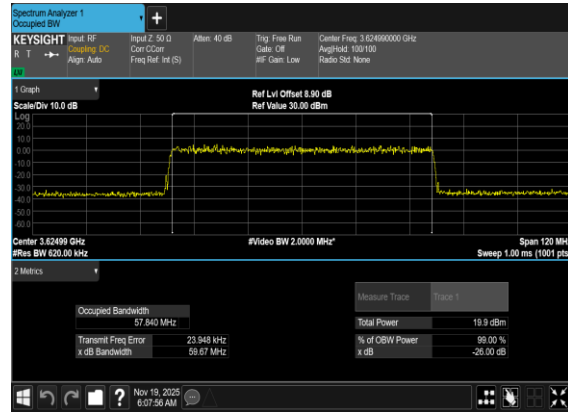




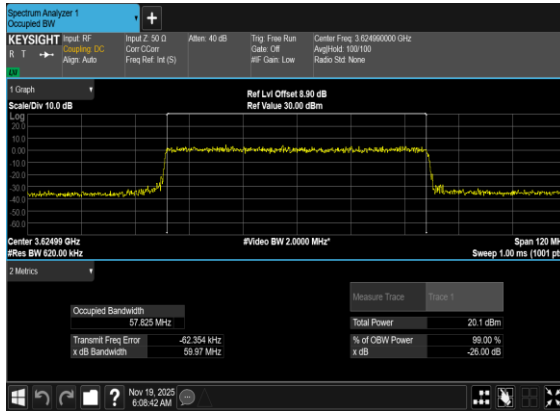
N77(60M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



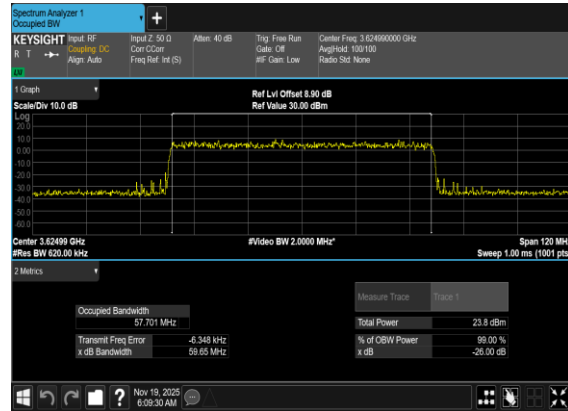
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QAM_Outer_Full_Mid_CH



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QAM_Outer_Full_Mid_CH

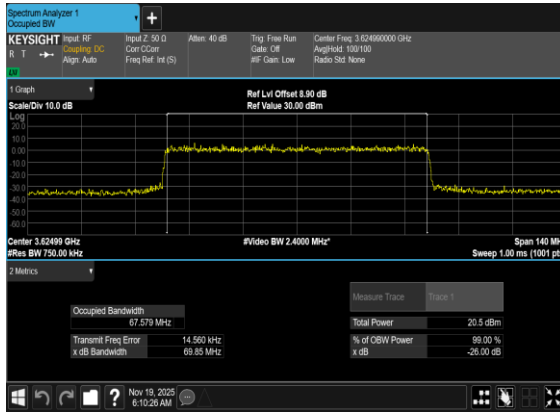


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QAM_Outer_Full_Mid_CH

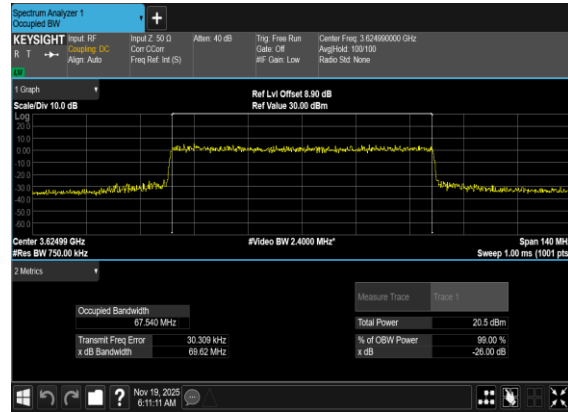




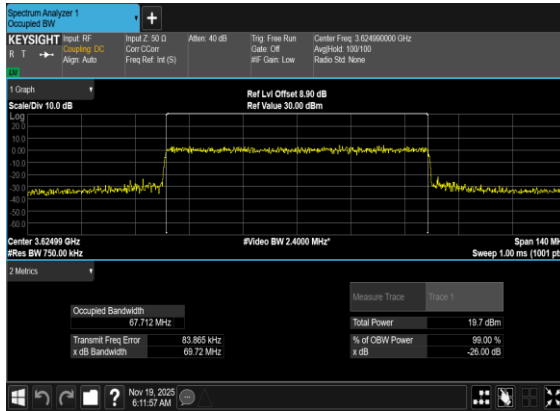
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OFDM_QPSK_Outer_Full_Mid_CH



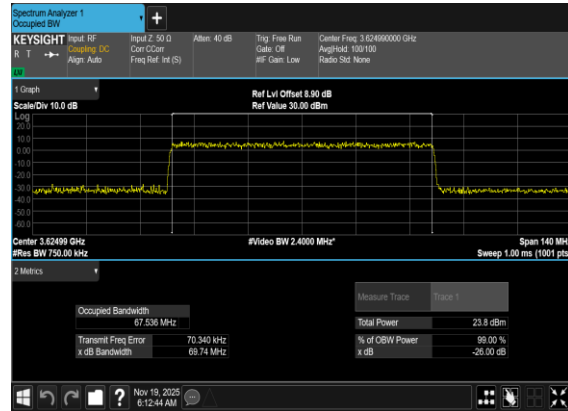
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QAM_Outer_Full_Mid_CH



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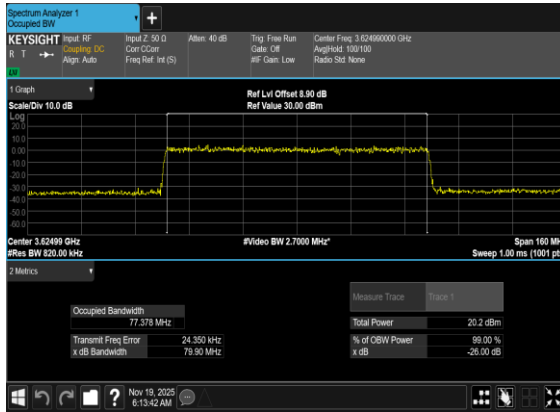


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QAM_Outer_Full_Mid_CH

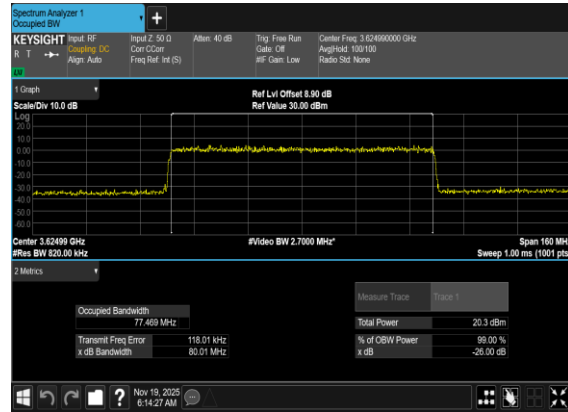




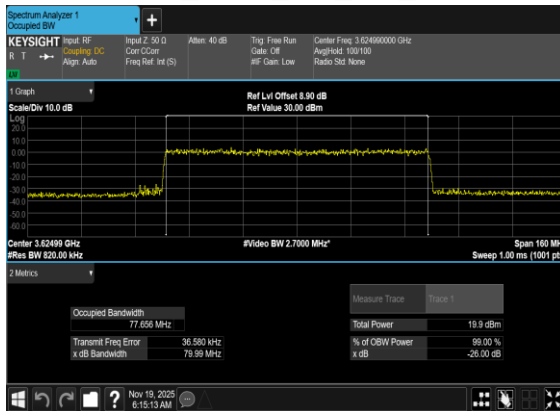
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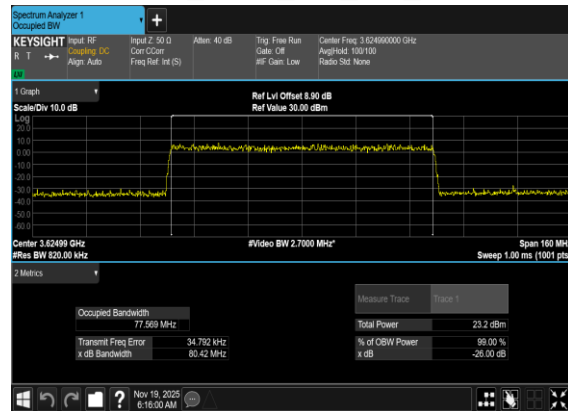
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QAM_Outer_Full_Mid_CH



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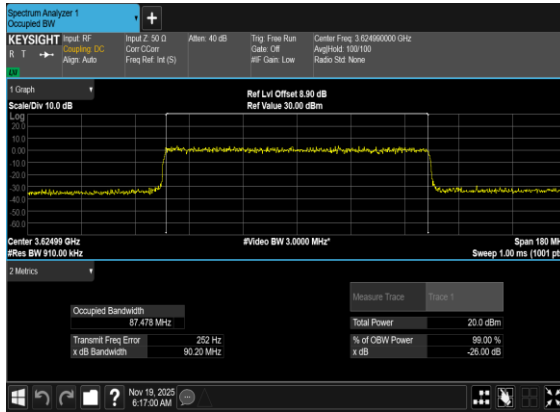


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QAM_Outer_Full_Mid_CH

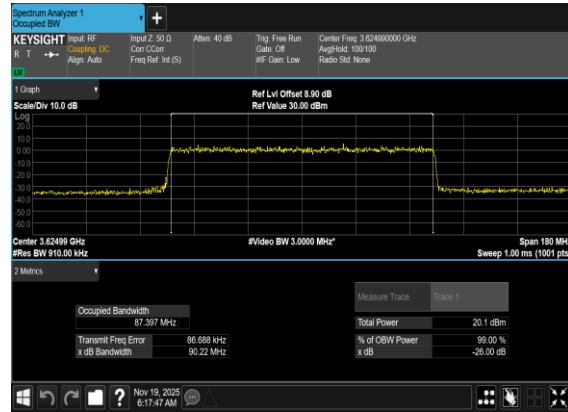




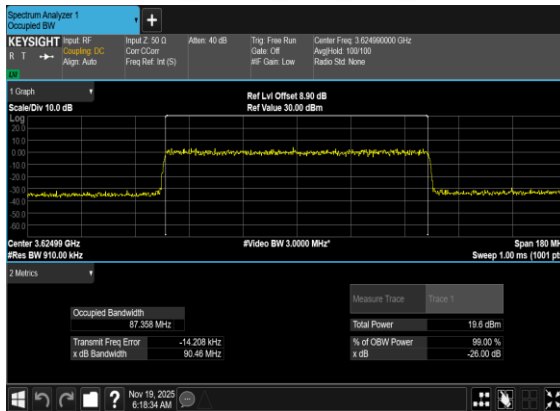
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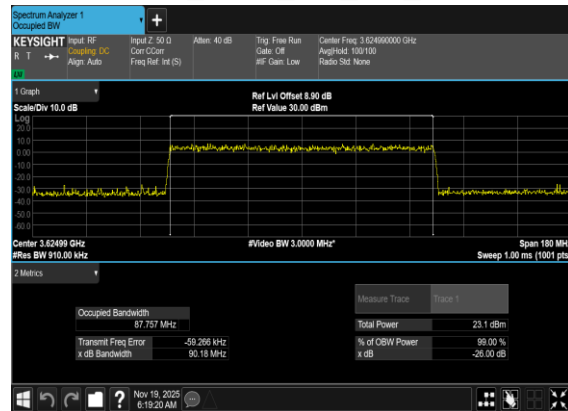
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QAM_Outer_Full_Mid_CH



N77(90M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

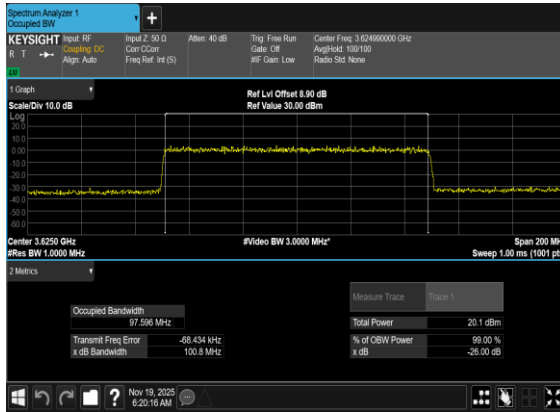


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QAM_Outer_Full_Mid_CH

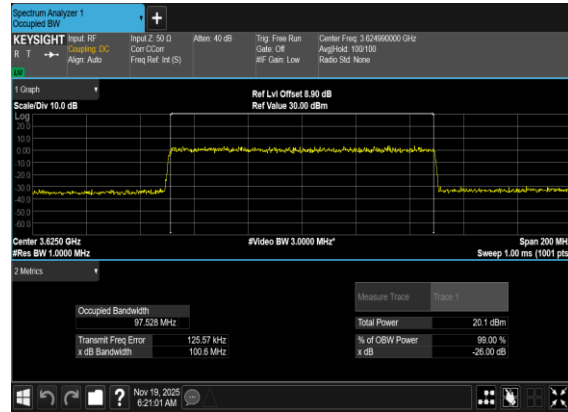




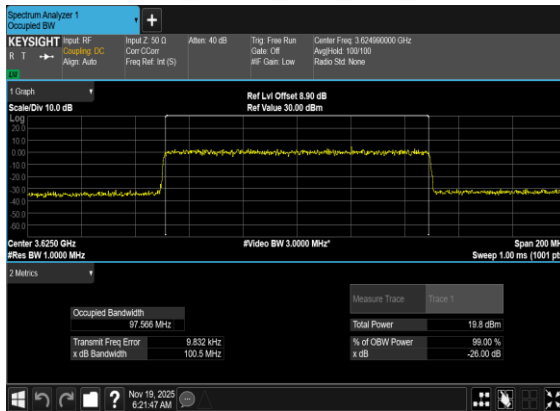
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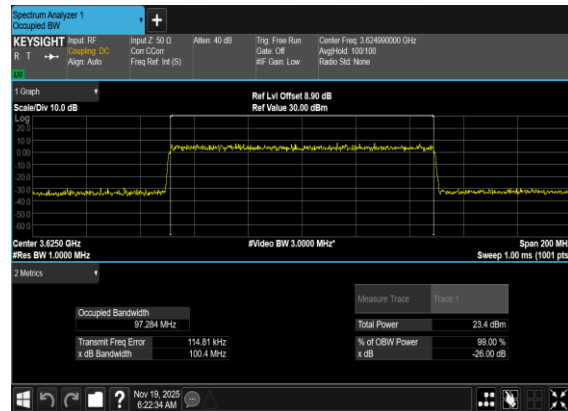
N77(100M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N77(100M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



N77(100M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH





Adjacent Channel Leakage Ratio

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Lower Margin	Upper Margin	Result	Verdict
77	30	10	637000	3555.0	DFT-s-OFDM PI/2 BPSK	24@0	-12.5	-12.54	see graph	PASS
77	30	10	637000	3555.0	DFT-s-OFDM PI/2 BPSK	1@0	-11.05	-19.98	see graph	PASS
77	30	10	637000	3555.0	DFT-s-OFDM PI/2 BPSK	1@23	-20.22	-12.23	see graph	PASS
77	30	10	637000	3555.0	DFT-s-OFDM QPSK	24@0	-13.79	-13.73	see graph	PASS
77	30	10	637000	3555.0	DFT-s-OFDM QPSK	1@0	-11.37	-19.84	see graph	PASS
77	30	10	637000	3555.0	DFT-s-OFDM QPSK	1@23	-19.63	-11.08	see graph	PASS
77	30	10	641666	3624.99	DFT-s-OFDM PI/2 BPSK	24@0	-14.25	-14.04	see graph	PASS
77	30	10	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@0	-10.02	-16.2	see graph	PASS
77	30	10	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@23	-16.81	-11.71	see graph	PASS
77	30	10	641666	3624.99	DFT-s-OFDM QPSK	24@0	-12.62	-13.21	see graph	PASS
77	30	10	641666	3624.99	DFT-s-OFDM QPSK	1@0	-11.04	-16.46	see graph	PASS
77	30	10	641666	3624.99	DFT-s-OFDM QPSK	1@23	-16.0	-9.94	see graph	PASS
77	30	10	646332	3694.98	DFT-s-OFDM PI/2 BPSK	24@0	-12.81	-12.94	see graph	PASS
77	30	10	646332	3694.98	DFT-s-OFDM PI/2 BPSK	1@0	-10.74	-16.76	see graph	PASS
77	30	10	646332	3694.98	DFT-s-OFDM PI/2 BPSK	1@23	-16.37	-10.4	see graph	PASS
77	30	10	646332	3694.98	DFT-s-OFDM QPSK	24@0	-13.43	-13.65	see graph	PASS
77	30	10	646332	3694.98	DFT-s-OFDM QPSK	1@0	-9.5	-16.3	see graph	PASS
77	30	10	646332	3694.98	DFT-s-OFDM QPSK	1@23	-16.13	-10.15	see graph	PASS
77	30	50	638334	3575.01	DFT-s-OFDM PI/2 BPSK	128@0	-11.4	-11.01	see graph	PASS



77	30	50	638334	3575.01	DFT-s-OFDM PI/2 BPSK	1@0	-10.61	-10.45	see graph	PASS
77	30	50	638334	3575.01	DFT-s-OFDM PI/2 BPSK	1@132	-12.1	-10.9	see graph	PASS
77	30	50	638334	3575.01	DFT-s-OFDM QPSK	128@0	-11.97	-11.4	see graph	PASS
77	30	50	638334	3575.01	DFT-s-OFDM QPSK	1@0	-10.17	-9.88	see graph	PASS
77	30	50	638334	3575.01	DFT-s-OFDM QPSK	1@132	-10.75	-9.54	see graph	PASS
77	30	50	641666	3624.99	DFT-s-OFDM PI/2 BPSK	128@0	-11.47	-10.62	see graph	PASS
77	30	50	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@0	-11.07	-10.54	see graph	PASS
77	30	50	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@132	-10.61	-9.17	see graph	PASS
77	30	50	641666	3624.99	DFT-s-OFDM QPSK	128@0	-11.84	-11.09	see graph	PASS
77	30	50	641666	3624.99	DFT-s-OFDM QPSK	1@0	-10.11	-9.5	see graph	PASS
77	30	50	641666	3624.99	DFT-s-OFDM QPSK	1@132	-11.19	-9.7	see graph	PASS
77	30	50	645000	3675.0	DFT-s-OFDM PI/2 BPSK	128@0	-10.89	-10.13	see graph	PASS
77	30	50	645000	3675.0	DFT-s-OFDM PI/2 BPSK	1@0	-10.25	-9.44	see graph	PASS
77	30	50	645000	3675.0	DFT-s-OFDM PI/2 BPSK	1@132	-6.44	-5.01	see graph	PASS
77	30	50	645000	3675.0	DFT-s-OFDM QPSK	128@0	-11.47	-10.91	see graph	PASS
77	30	50	645000	3675.0	DFT-s-OFDM QPSK	1@0	-7.54	-6.81	see graph	PASS
77	30	50	645000	3675.0	DFT-s-OFDM QPSK	1@132	-9.6	-8.14	see graph	PASS
77	30	100	640000	3600.0	DFT-s-OFDM PI/2 BPSK	270@0	-10.12	-8.15	see graph	PASS
77	30	100	640000	3600.0	DFT-s-OFDM PI/2 BPSK	1@0	-8.79	-6.43	see graph	PASS
77	30	100	640000	3600.0	DFT-s-OFDM PI/2 BPSK	1@272	-10.11	-6.33	see graph	PASS
77	30	100	640000	3600.0	DFT-s-OFDM QPSK	270@0	-10.82	-9.17	see graph	PASS
77	30	100	640000	3600.0	DFT-s-OFDM QPSK	1@0	-8.75	-7.22	see graph	PASS



77	30	100	640000	3600.0	DFT-s-OFDM QPSK	1@272	-9.48	-5.77	see graph	PASS
77	30	100	641666	3624.99	DFT-s-OFDM PI/2 BPSK	270@0	-9.76	-7.69	see graph	PASS
77	30	100	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@0	-9.2	-7.62	see graph	PASS
77	30	100	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@272	-9.98	-6.07	see graph	PASS
77	30	100	641666	3624.99	DFT-s-OFDM QPSK	270@0	-10.95	-8.95	see graph	PASS
77	30	100	641666	3624.99	DFT-s-OFDM QPSK	1@0	-8.0	-6.5	see graph	PASS
77	30	100	641666	3624.99	DFT-s-OFDM QPSK	1@272	-9.73	-5.93	see graph	PASS
77	30	100	643332	3649.98	DFT-s-OFDM PI/2 BPSK	270@0	-9.04	-7.19	see graph	PASS
77	30	100	643332	3649.98	DFT-s-OFDM PI/2 BPSK	1@0	-7.62	-5.95	see graph	PASS
77	30	100	643332	3649.98	DFT-s-OFDM PI/2 BPSK	1@272	-7.7	-4.05	see graph	PASS
77	30	100	643332	3649.98	DFT-s-OFDM QPSK	270@0	-10.39	-8.53	see graph	PASS
77	30	100	643332	3649.98	DFT-s-OFDM QPSK	1@0	-7.16	-5.25	see graph	PASS
77	30	100	643332	3649.98	DFT-s-OFDM QPSK	1@272	-9.4	-5.64	see graph	PASS



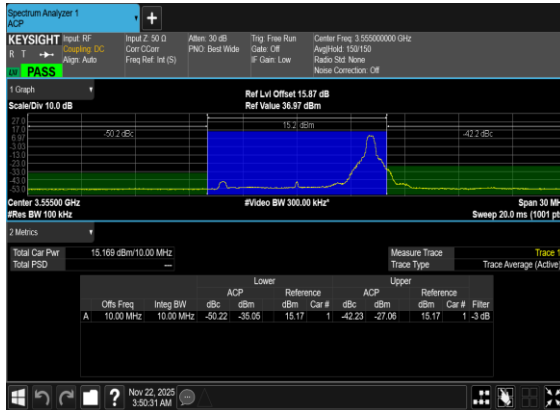
N77(10M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_Low_CH



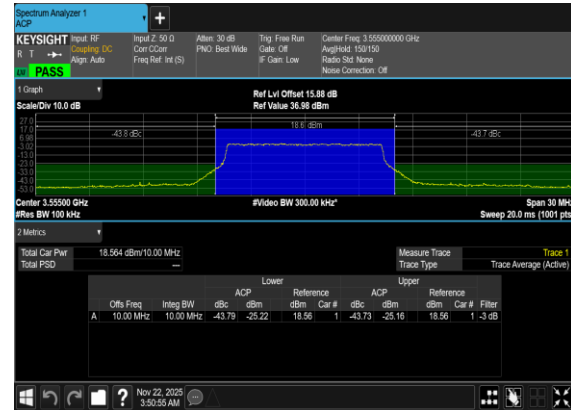
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BPSK_Edge_1RB_Left_Low_CH



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BPSK_Edge_1RB_Right_Low_CH

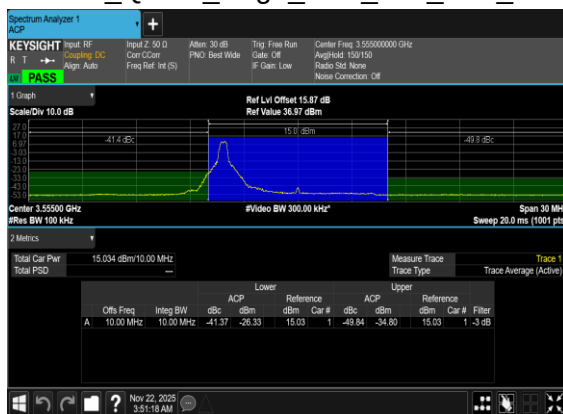


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OFDM_QPSK_Outer_Full_Low_CH

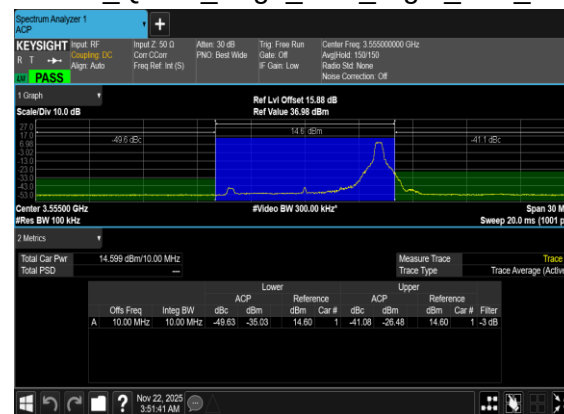




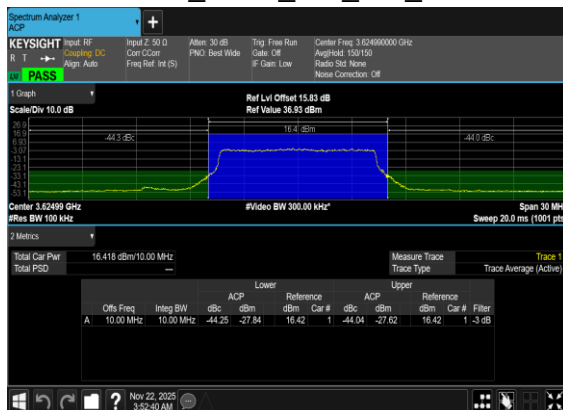
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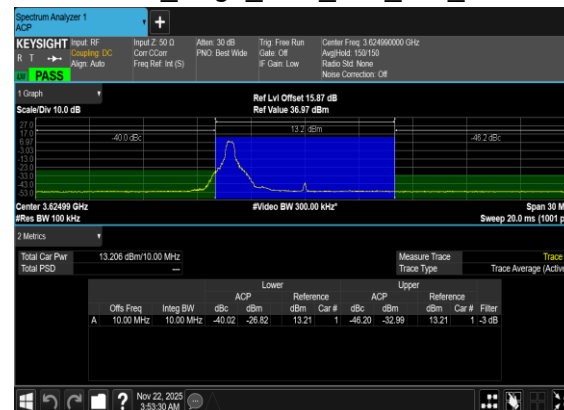
N77(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_Low_CH



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



N77(10M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_Mid_CH

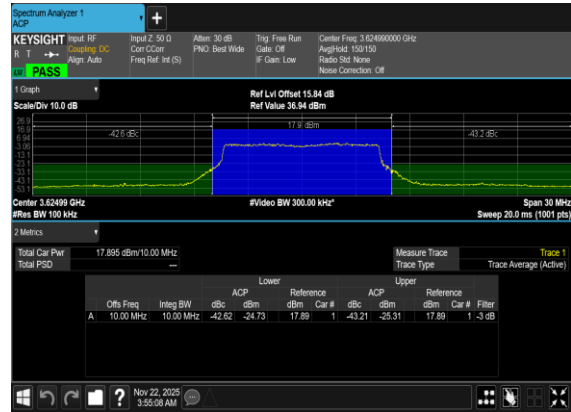




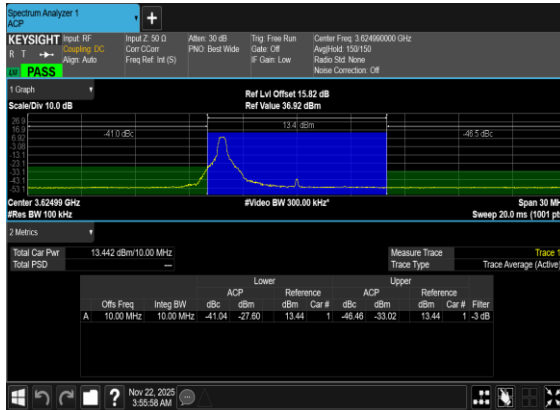
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BPSK_Edge_1RB_Right_Mid_CH



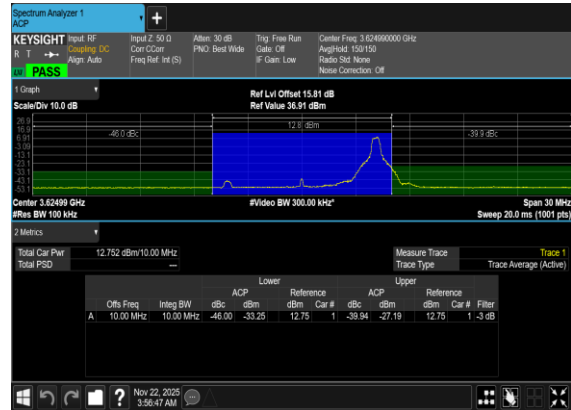
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OFDM_QPSK_Outer_Full_Mid_CH



N77(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



N77(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_Mid_CH





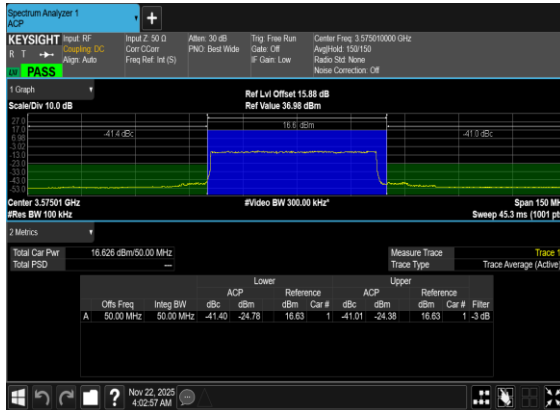
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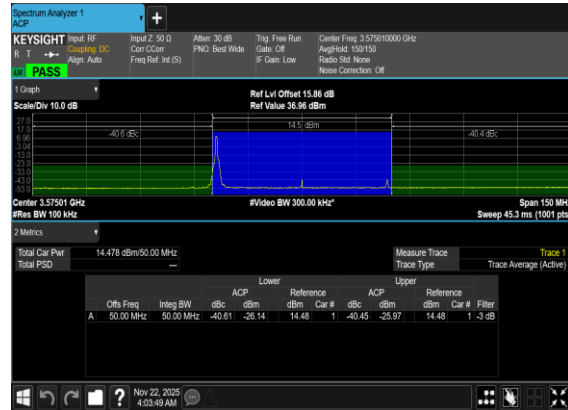
N77(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_High_C
H



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

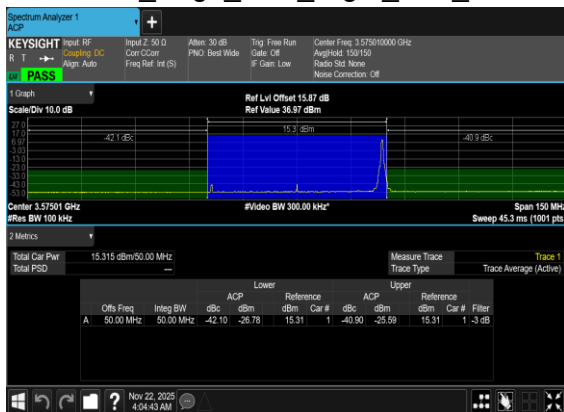


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BPSK_Edge_1RB_Left_Low_CH

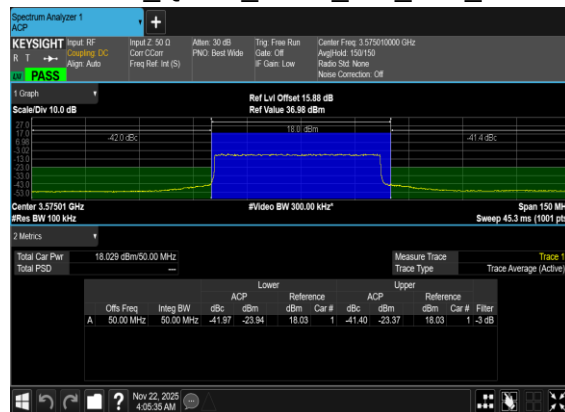




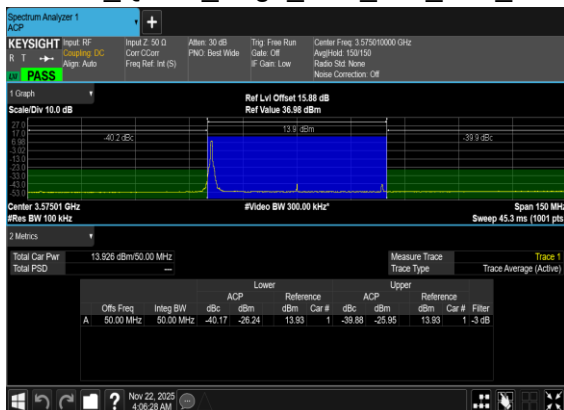
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BPSK_Edge_1RB_Right_Low_CH



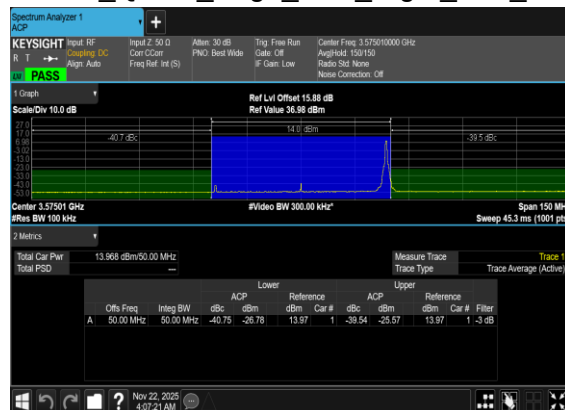
N77(50M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH



N77(50M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH

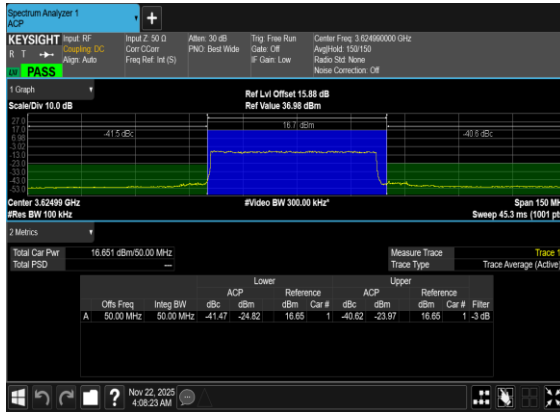


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OFDM_QPSK_Edge_1RB_Right_Low_CH

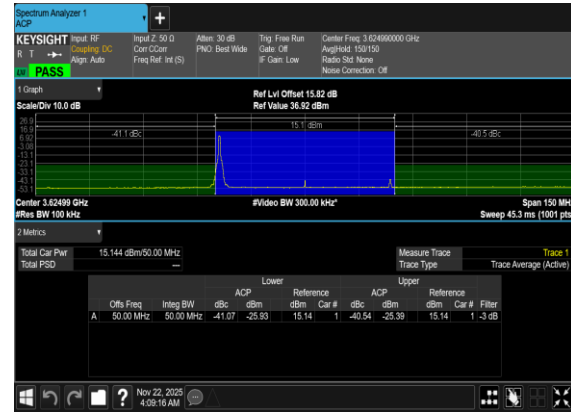




N77(50M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_Mid_CH



N77(50M)_DFT-s-OFDM_PI_2-
BPSK_Edge_1RB_Left_Mid_CH



N77(50M)_DFT-s-OFDM_PI_2-
BPSK_Edge_1RB_Right_Mid_CH



N77(50M)_DFT-s-
OFDM_QPSK_Outer_Full_Mid_CH

