FCC RF Test Report

APPLICANT	:	**Xiaomi Communications Co., Ltd.**
EQUIPMENT	:	**Mobile Phone**
BRAND NAME	:	**Xiaomi**
MODEL NAME	:	**XIG04**
FCC ID	:	**2AFZZN60R**
STANDARD	:	**47 CFR Part 2, Part 27 Subpart Q**
CLASSIFICATION	:	**PCS Licensed Transmitter Held to Ear (PCE)**
TEST DATE(S)	:	**Jun. 10, 2023 ~ Jul. 17, 2023**

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.

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

Jason Jia

Approved by: Jason Jia

ilac-MRA A2LA ACCREDITED Cert #5145.02

Sporton International Inc. (Kunshan)
No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG350505-01E	Rev. 01	Initial issue of report	Jul. 04, 2023
FG350505-01E	Rev. 02	Update RSE test data	Jul. 18, 2023

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	—	Report Only	-
3.5	§27.50 (k)(4)	Peak-to-Average Ratio	<13dB	PASS	
3.6	§27.50 (k)(3)	EIRP	EIRP < 1W (30dBm)	PASS	-
3.7	§2.1049	Occupied Bandwidth	—	Report Only	-
3.8	§2.1051 §27.53 (n)(2)	Conducted Band Edge Measurement	-13dBm/MHz	PASS	-
3.9	§2.1051 §27.53 (n)(2)	Conducted Spurious Emission	-13dBm/MHz	PASS	-
3.10	§2.1055 §27.54	Frequency Stability Temperature & Voltage	Within the band	PASS	-
4.4	§2.1051 §27.53 (n)(2)	Radiated Spurious Emission	-13dBm/MHz	PASS	Under limit 29.90 dB at 10390.000 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/manufacturer 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

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

1.2 Manufacturer

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

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Phone
Brand Name	Xiaomi
Model Name	XIG04
FCC ID	2AFZZN60R
IMEI Code	Conducted: 866263060006282/866263060006290 Radiation: 866263060002620/866263060002638
HW Version	P2.0
SW Version	MIUI 14
EUT Stage	Identical Prototype

1.4 Product Specification of Equipment Under Test

Product Feature	
Tx/Rx Frequency	5G NR n77/n78: 3450 MHz ~ 3550 MHz
SCS	30kHz
Bandwidth	n77/n78: 20MHz / 30MHz / 40MHz / 50MHz / 60MHz / 80MHz / 90MHz / 100MHz
Antenna Gain	**<Ant. 1>** 5G NR n77: -7.00 dBi 5G NR n78: -7.00 dBi **<Ant. 5>** 5G NR n77: -0.26 dBi 5G NR n78: -0.67 dBi **<Ant. 6>** 5G NR n77: -1.00 dBi 5G NR n78: -1.00 dBi **<Ant. 7>** 5G NR n77: -6.00 dBi 5G NR n78: -6.00 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 of Ant.5 for 5G NR n77 / n78 are shown in the report.
2. 5G NR n77/n78 support SA and NSA mode. According to the maximum power between SA and NSA mode, SA covers NSA mode and 5G NR n78 covers n77.
3. All the supported EN-DC combinations are verified conducted power, only the EN-DC combination with highest power are shown in the report.
4. The EN-DC mode combination could be referred to the product spec.

1.5 Modification of EUT

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

1.6 Maximum EIRP Power and Emission Designator

5G NR n77		PI/2 BPSK / QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
20	3460.02 ~ 3540.00	0.2355	18M2G7D	0.1837	18M2W7D
30	3465.00 ~ 3534.99	0.2371	27M8G7D	0.1845	27M8W7D
40	3470.01 ~ 3529.98	0.2388	37M8G7D	0.1871	37M9W7D
50	3475.02 ~ 3525.00	0.2421	47M5G7D	0.2004	47M5W7D
60	3480.00 ~ 3519.99	0.2377	57M7G7D	0.1862	57M8W7D
80	3490.02 ~ 3510.00	0.2377	77M4G7D	0.1858	77M5W7D
90	3495.00 ~ 3504.99	0.2360	87M5G7D	0.2168	87M4W7D
100	3500.01	0.2535	97M6G7D	0.2173	97M7W7D

5G NR n78		PI/2 BPSK / QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
20	3460.02 ~ 3540.00	0.2259	18M2G7D	0.1816	18M2W7D
30	3465.00 ~ 3534.99	0.2270	27M8G7D	0.1738	27M8W7D
40	3470.01 ~ 3529.98	0.2239	37M8G7D	0.1706	37M9W7D
50	3475.02 ~ 3525.00	0.2254	47M5G7D	0.1722	47M5W7D
60	3480.00 ~ 3519.99	0.2193	57M7G7D	0.1738	57M8W7D
80	3490.02 ~ 3510.00	0.2244	77M4G7D	0.1778	77M5W7D
90	3495.00 ~ 3504.99	0.2254	87M5G7D	0.1928	87M4W7D
100	3500.01	0.2296	97M6G7D	0.1774	97M7W7D

Note:

1. 5G NR Band n78 overlaps the entire frequency range of Band n77 for Part 27Q, and n78 conducted power > n77, therefore the conducted test results of n78 provided in this report cover n77.
2. All modulations have been tested, and only the worst test results of PSK & QAM are shown in the report.

1.7 Testing Site

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

Test Firm	Sporton International Inc. (Kunshan)		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158		
Test Site No.	**Sporton Site No.**	**FCC Designation No.**	**FCC Test Firm Registration No.**
	TH01-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 Lab.	Sporton International Inc. (Shenzhen)
Test Site Location	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China TEL: +86-755-86379589 FAX: +86-755-86379595
Test Site No.	**Sporton Site No. :** 03CH02-SZ

Note: Test data subcontracted: Test case of RSE in section 4.4 of this report

1.8 Test Software

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

1.9 Applied Standards

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

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

Remark:

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

2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

2 Test Configuration of Equipment Under Test

2.1 Test Mode

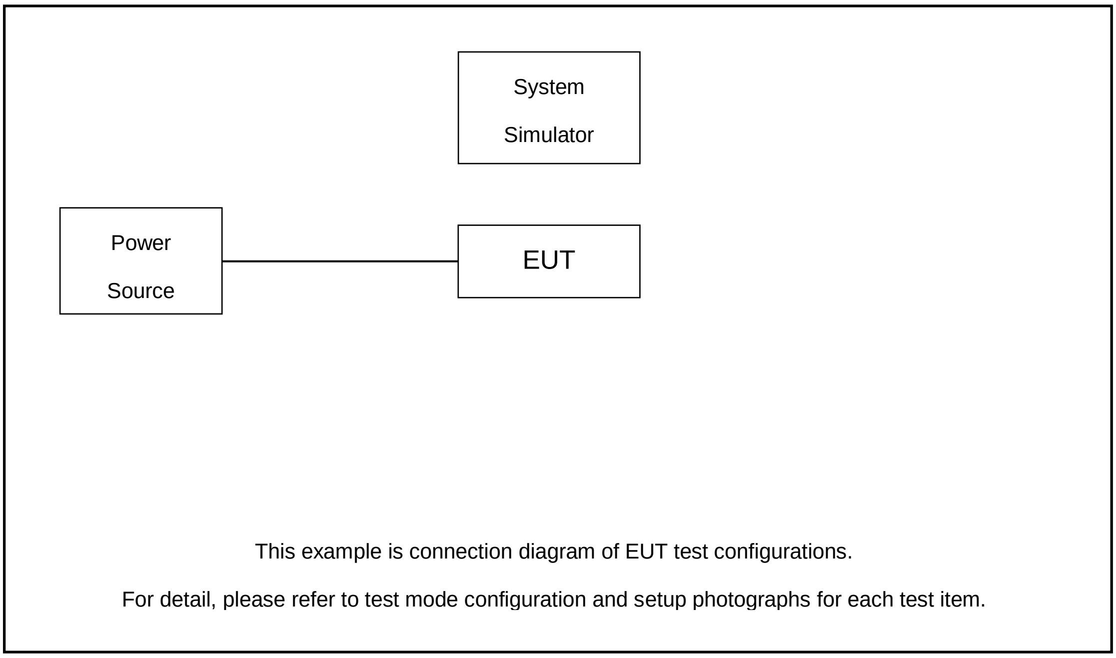
Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 with maximum output power.

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

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

Note:
1. 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.
2. Frequency Stability：Normal Voltage = 3.89V; Low Voltage =3.60V; High Voltage =4.48V.
3. All test items are based on engineering evaluation.

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	Power Supply	GWINSTEK	PSS-2002	N/A	N/A	Unshielded, 1.8 m

2.4 Measurement Results Explanation Example

For all conducted test items:

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

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

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 6.5 dB and 20dB attenuator.

Example :

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

= 6.5 + 20 = 26.5 (dB)

2.5 Frequency List of Low/Middle/High Channels

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

3 Conducted Test Items

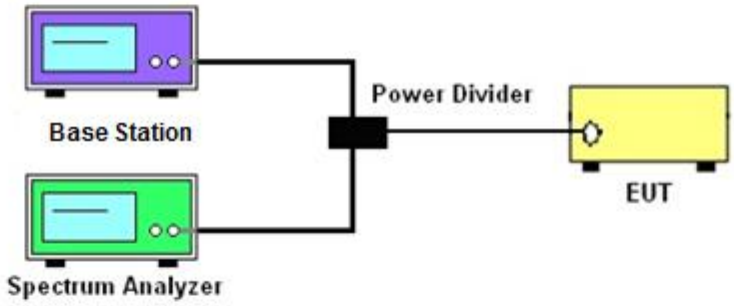
3.1 Measuring Instruments

See list of measuring instruments of this test report.

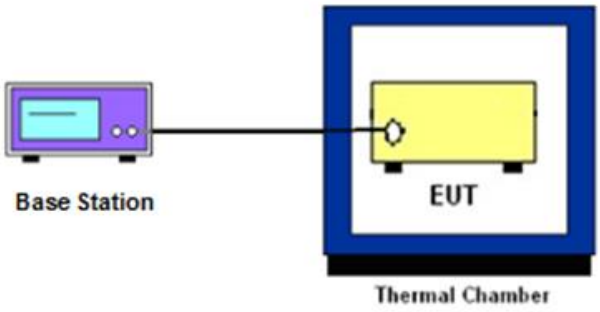
3.2 Test Setup

3.2.1 Conducted Output Power

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



3.2.3 Frequency Stability



3.3 Test Result of Conducted Test

Please refer to Appendix A.

3.4 Conducted Output Power Measurement

3.4.1 Description of the Conducted Output Power Measurement

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

3.4.2 Test Procedures

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

3.5 Peak-to-Average Ratio

3.5.1 Description of the PAR Measurement

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

3.5.2 Test Procedures

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

3.6 EIRP

3.6.1 Description of EIRP Limit

§ 27.50 (k)(3)

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

3.6.2 Test Procedures

1. According to KDB 412172 D01 Power Approach,
2. EIRP = P_T + G_T – L_C, ERP = EIRP -2.15, where

   P_T = transmitter output power in dBm

   G_T = gain of the transmitting antenna in dBi

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

3.7 Occupied Bandwidth

3.7.1 Description of Occupied Bandwidth Measurement

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

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

3.7.2 Test Procedures

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

3.8 Conducted Band Edge Measurement

3.8.1 Description of Conducted Band Edge Measurement

§ 27.53 (n)(2)

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

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

3.8.2 Test Procedures

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

3.9 Conducted Spurious Emission Measurement

3.9.1 Description of Conducted Spurious Emission Measurement

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

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

3.9.2 Test Procedures

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

3.10 Frequency Stability Measurement

3.10.1 Description of Frequency Stability Measurement

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

3.10.2 Test Procedures for Temperature Variation

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

3.10.3 Test Procedures for Voltage Variation

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

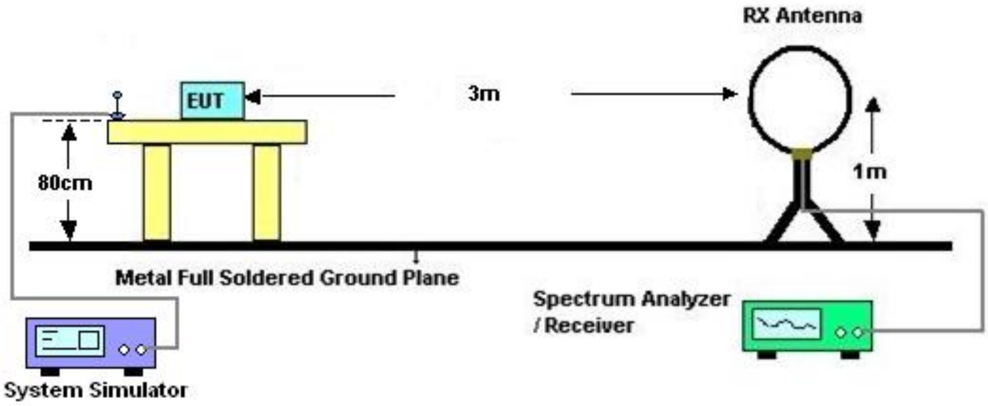
4 Radiated Test Items

4.1 Measuring Instruments

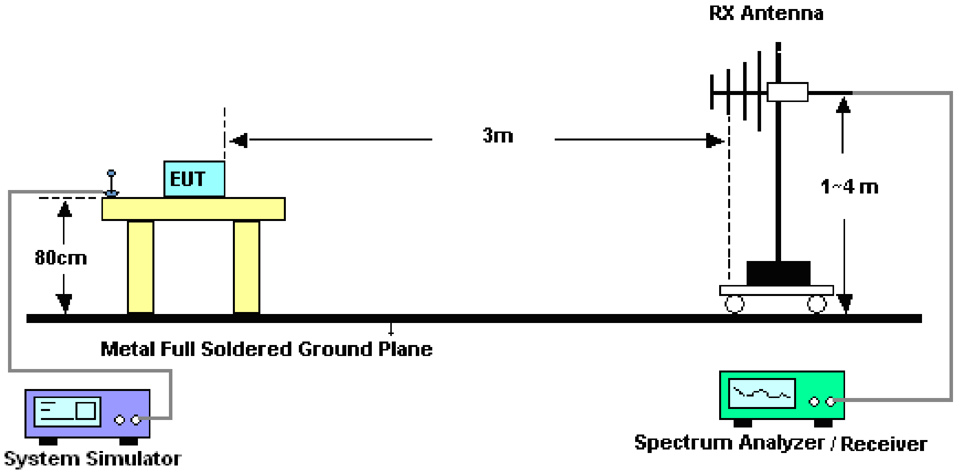
See list of measuring instruments of this test report.

4.2 Test Setup

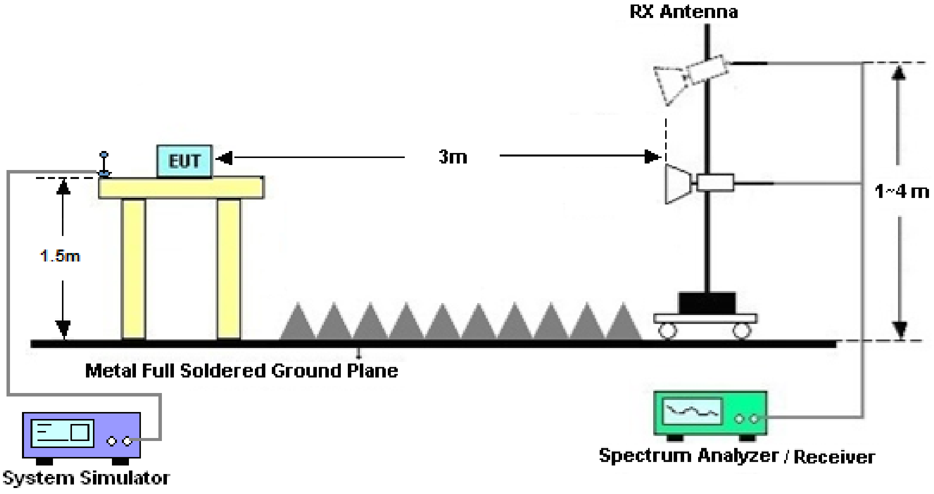
4.2.1 For radiated test below 30MHz



4.2.2 For radiated test from 30MHz to 1GHz



4.2.3 For radiated test above 1GHz



4.3 Test Result of Radiated Test

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

Please refer to Appendix B.

4.4 Radiated Spurious Emission

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

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

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

5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Oct. 12, 2022	Jun. 10, 2023~ Jun. 21, 2023	Oct. 11, 2023	Conducted (TH01-KS)
Power divider	STI	STI08-0055	-	0.5~40GHz	Aug. 26, 2022	Jun. 10, 2023~ Jun. 21, 2023	Aug. 25, 2023	Conducted (TH01-KS)
Temperature &humidity chamber	Hongzhan	LP-150U	H2014011440	-40~+150°C 20%~95%RH	Jul. 15, 2022	Jun. 10, 2023~ Jun. 21, 2023	Jul. 14, 2023	Conducted (TH01-KS)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 07, 2023	Jul. 17, 2023	Jul. 06, 2024	Radiation (03CH02-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jul. 28, 2022	Jul. 17, 2023	Jul. 27, 2024	Radiation (03CH02-SZ)
Bilog Antenna	TeseQ	CBL6112D		30MHz-2GHz	Oct. 19, 2022	Jul. 17, 2023	Oct. 18, 2023	Radiation (03CH02-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Jul. 08, 2023	Jul. 17, 2023	Jul. 07, 2024	Radiation (03CH02-SZ)
HF Amplifier	MITEQ	TTA1840-35 -HG	1871923	18GHz~40GHz	Jul. 07, 2023	Jul. 17, 2023	Jul. 06, 2024	Radiation (03CH02-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Apr. 08, 2023	Jul. 17, 2023	Apr. 07, 2024	Radiation (03CH02-SZ)
LF Amplifier	Burgeon	BPA-530	102211	0.01~3000Mhz	Oct. 19, 2022	Jul. 17, 2023	Oct. 18, 2023	Radiation (03CH02-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270105	0.5GHz~26.5Ghz	Oct. 19, 2022	Jul. 17, 2023	Oct.18, 2023	Radiation (03CH02-SZ)
AC Power Source	Chroma	61601	616010003043	N/A	Nov. 10, 2022	Jul. 17, 2023	Nov. 10, 2023	Radiation (03CH02-SZ)
Turn Table	Chaintek	T-200	N/A	0~360 degree	NCR	Jul. 17, 2023	NCR	Radiation (03CH02-SZ)
Antenna Mast	Chaintek	MBS-400	N/A	1 m~4 m	NCR	Jul. 17, 2023	NCR	Radiation (03CH02-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 07, 2023	Jul. 17, 2023	Jul. 06, 2024	Radiation (03CH02-SZ)

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 Power	**±0.46 dB**
Conducted Emissions	**±0.48 dB**
Occupied Channel Bandwidth	**±0.1 %**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**2.47dB**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**3.31dB**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**3.72dB**

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

Appendix A. Test Results of Conducted Test

Test Engineer :	Smile Wang	**Temperature :**	22~23℃
		Relative Humidity :	40~42%

Software Version: 23.04.2801

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Transmitter Conducted Output Power And EIRP, (G_T - L_C)=-0.26dBi

NR Band	SCS	BandWidth	Arfcn	Freq(MHz)	Modulation	RB	Conducted Power(dBm)	EIRP(dBm)	EIRP(W)
77	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	135@67	24.3	24.04	0.2535
77	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	24.15	23.89	0.2449
77	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@271	23.82	23.56	0.2270
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	135@67	24.13	23.87	0.2438
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@1	24.2	23.94	0.2477
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@271	23.87	23.61	0.2296
77	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	135@67	23.63	23.37	0.2173
77	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	23.15	22.89	0.1945
77	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	1@271	22.75	22.49	0.1774
77	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	135@67	21.62	21.36	0.1368
77	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	21.81	21.55	0.1429
77	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	1@271	22.11	21.85	0.1531
77	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	135@67	19.52	19.26	0.0843
77	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	19.68	19.42	0.0875
77	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	1@271	19.31	19.05	0.0804
77	30	100	633334	3500.01	CP-OFDM QPSK	137@68	22.6	22.34	0.1714
77	30	100	633334	3500.01	CP-OFDM QPSK	1@1	22.69	22.43	0.1750
77	30	100	633334	3500.01	CP-OFDM QPSK	1@271	22.39	22.13	0.1633
77	30	20	630668	3460.02	DFT-s-OFDM PI/2 BPSK	1@1	23.92	23.66	0.2323
77	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@1	23.97	23.71	0.2350
77	30	20	630668	3460.02	DFT-s-OFDM 16 QAM	1@1	22.85	22.59	0.1816
77	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	23.91	23.65	0.2317
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@1	23.93	23.67	0.2328
77	30	20	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	22.83	22.57	0.1807
77	30	20	636000	2540	DFT-s-OFDM PI/2 BPSK	1@1	23.89	23.63	0.2307
77	30	20	636000	3540	DFT-s-OFDM QPSK	1@1	23.98	23.72	0.2355
77	30	20	636000	3540	DFT-s-OFDM 16 QAM	1@1	22.9	22.64	0.1837
77	30	30	631000	3465	DFT-s-OFDM PI/2 BPSK	1@1	23.96	23.7	0.2344
77	30	30	631000	3465	DFT-s-OFDM QPSK	1@1	24.01	23.75	0.2371
77	30	30	631000	3465	DFT-s-OFDM 16 QAM	1@1	22.92	22.66	0.1845
77	30	30	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	23.91	23.65	0.2317
77	30	30	633334	3500.01	DFT-s-OFDM QPSK	1@1	23.98	23.72	0.2355
77	30	30	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	22.89	22.63	0.1832
77	30	30	635666	3534.99	DFT-s-OFDM PI/2 BPSK	1@1	23.93	23.67	0.2328
77	30	30	635666	3534.99	DFT-s-OFDM QPSK	1@1	23.99	23.73	0.2360
77	30	30	635666	3534.99	DFT-s-OFDM 16 QAM	1@1	22.88	22.62	0.1828
77	30	40	631334	3470.01	DFT-s-OFDM PI/2 BPSK	1@1	23.99	23.73	0.2360

77	30	40	631334	3470.01	DFT-s-OFDM QPSK	1@1	24.04	23.78	0.2388
77	30	40	631334	3470.01	DFT-s-OFDM 16 QAM	1@1	22.98	22.72	0.1871
77	30	40	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	23.97	23.71	0.2350
77	30	40	633334	3500.01	DFT-s-OFDM QPSK	1@1	24	23.74	0.2366
77	30	40	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	22.89	22.63	0.1832
77	30	40	635332	3529.98	DFT-s-OFDM PI/2 BPSK	1@1	23.95	23.69	0.2339
77	30	40	635332	3529.98	DFT-s-OFDM QPSK	1@1	24.03	23.77	0.2382
77	30	40	635332	3529.98	DFT-s-OFDM 16 QAM	1@1	22.94	22.68	0.1854
77	30	50	631668	3475.02	DFT-s-OFDM PI/2 BPSK	1@1	23.94	23.68	0.2333
77	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@1	23.99	23.73	0.2360
77	30	50	631668	3475.02	DFT-s-OFDM 16 QAM	1@1	22.94	22.68	0.1854
77	30	50	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	23.9	23.64	0.2312
77	30	50	633334	3500.01	DFT-s-OFDM QPSK	1@1	23.93	23.67	0.2328
77	30	50	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	22.86	22.6	0.1820
77	30	50	635000	3525	DFT-s-OFDM PI/2 BPSK	1@1	24.04	23.78	0.2388
77	30	50	635000	3525	DFT-s-OFDM QPSK	1@1	24.1	23.84	0.2421
77	30	50	635000	3525	DFT-s-OFDM 16 QAM	1@1	23.28	23.02	0.2004
77	30	60	632000	3480	DFT-s-OFDM PI/2 BPSK	1@1	23.93	23.67	0.2328
77	30	60	632000	3480	DFT-s-OFDM QPSK	1@1	23.97	23.71	0.2350
77	30	60	632000	3480	DFT-s-OFDM 16 QAM	1@1	22.94	22.68	0.1854
77	30	60	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	23.87	23.61	0.2296
77	30	60	633334	3500.01	DFT-s-OFDM QPSK	1@1	23.9	23.64	0.2312
77	30	60	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	22.86	22.6	0.1820
77	30	60	634666	3519.99	DFT-s-OFDM PI/2 BPSK	1@1	24.02	23.76	0.2377
77	30	60	634666	3519.99	DFT-s-OFDM QPSK	1@1	24.02	23.76	0.2377
77	30	60	634666	3519.99	DFT-s-OFDM 16 QAM	1@1	22.96	22.7	0.1862
77	30	80	632668	3490.02	DFT-s-OFDM PI/2 BPSK	1@1	23.97	23.71	0.2350
77	30	80	632668	3490.02	DFT-s-OFDM QPSK	1@1	24.02	23.76	0.2377
77	30	80	632668	3490.02	DFT-s-OFDM 16 QAM	1@1	22.95	22.69	0.1858
77	30	80	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	23.91	23.65	0.2317
77	30	80	633334	3500.01	DFT-s-OFDM QPSK	1@1	23.96	23.7	0.2344
77	30	80	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	22.83	22.57	0.1807
77	30	80	634000	3510	DFT-s-OFDM PI/2 BPSK	1@1	23.87	23.61	0.2296
77	30	80	634000	3510	DFT-s-OFDM QPSK	1@1	23.93	23.67	0.2328
77	30	80	634000	3510	DFT-s-OFDM 16 QAM	1@1	22.84	22.58	0.1811
77	30	90	633000	3495	DFT-s-OFDM PI/2 BPSK	1@1	23.94	23.68	0.2333
77	30	90	633000	3495	DFT-s-OFDM QPSK	1@1	23.99	23.73	0.2360
77	30	90	633000	3495	DFT-s-OFDM 16 QAM	1@1	23.1	22.84	0.1923
77	30	90	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	23.88	23.62	0.2301
77	30	90	633334	3500.01	DFT-s-OFDM QPSK	1@1	23.89	23.63	0.2307
77	30	90	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	22.86	22.6	0.1820
77	30	90	633666	3504.99	DFT-s-OFDM PI/2 BPSK	1@1	23.89	23.63	0.2307
77	30	90	633666	3504.99	DFT-s-OFDM QPSK	1@1	23.96	23.7	0.2344
77	30	90	633666	3504.99	DFT-s-OFDM 16 QAM	1@1	23.62	23.36	0.2168

Software Version: 23.04.1201

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Transmitter Conducted Output Power And EIRP, $(G_T - L_C)$=-0.67dBi

NR Band	SCS	BandWidth	Arfcn	Freq(MHz)	Modulation	RB	Conducted Power(dBm)	EIRP(dBm)	EIRP(W)
78	30	20	630668	3460.02	DFT-s-OFDM PI/2 BPSK	1@1	24.13	23.46	0.2218
78	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@1	24.09	23.42	0.2198
78	30	20	630668	3460.02	DFT-s-OFDM 16 QAM	1@1	23.03	22.36	0.1722
78	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	23.98	23.31	0.2143
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@1	23.99	23.32	0.2148
78	30	20	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	23.01	22.34	0.1714
78	30	20	636000	3540	DFT-s-OFDM PI/2 BPSK	1@1	24.21	23.54	0.2259
78	30	20	636000	3540	DFT-s-OFDM QPSK	1@1	24.2	23.53	0.2254
78	30	20	636000	3540	DFT-s-OFDM 16 QAM	1@1	23.26	22.59	0.1816
78	30	30	631000	3465	DFT-s-OFDM PI/2 BPSK	1@1	24.1	23.43	0.2203
78	30	30	631000	3465	DFT-s-OFDM QPSK	1@1	24.09	23.42	0.2198
78	30	30	631000	3465	DFT-s-OFDM 16 QAM	1@1	23.03	22.36	0.1722
78	30	30	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	23.89	23.22	0.2099
78	30	30	633334	3500.01	DFT-s-OFDM QPSK	1@1	23.87	23.2	0.2089
78	30	30	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	22.89	22.22	0.1667
78	30	30	635666	3534.99	DFT-s-OFDM PI/2 BPSK	1@1	24.23	23.56	0.2270
78	30	30	635666	3534.99	DFT-s-OFDM QPSK	1@1	24.2	23.53	0.2254
78	30	30	635666	3534.99	DFT-s-OFDM 16 QAM	1@1	23.07	22.4	0.1738
78	30	40	631334	3470.01	DFT-s-OFDM PI/2 BPSK	1@1	24.12	23.45	0.2213
78	30	40	631334	3470.01	DFT-s-OFDM QPSK	1@1	24.15	23.48	0.2228
78	30	40	631334	3470.01	DFT-s-OFDM 16 QAM	1@1	22.98	22.31	0.1702
78	30	40	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	23.79	23.12	0.2051
78	30	40	633334	3500.01	DFT-s-OFDM QPSK	1@1	23.82	23.15	0.2065
78	30	40	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	22.71	22.04	0.1600
78	30	40	635332	3529.98	DFT-s-OFDM PI/2 BPSK	1@1	24.14	23.47	0.2223
78	30	40	635332	3529.98	DFT-s-OFDM QPSK	1@1	24.17	23.5	0.2239
78	30	40	635332	3529.98	DFT-s-OFDM 16 QAM	1@1	22.99	22.32	0.1706
78	30	50	631668	3475.02	DFT-s-OFDM PI/2 BPSK	1@1	24.06	23.39	0.2183
78	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@1	24.04	23.37	0.2173
78	30	50	631668	3475.02	DFT-s-OFDM 16 QAM	1@1	22.91	22.24	0.1675
78	30	50	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	23.82	23.15	0.2065
78	30	50	633334	3500.01	DFT-s-OFDM QPSK	1@1	23.78	23.11	0.2046
78	30	50	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	22.66	21.99	0.1581
78	30	50	635000	3525	DFT-s-OFDM PI/2 BPSK	1@1	24.2	23.53	0.2254
78	30	50	635000	3525	DFT-s-OFDM QPSK	1@1	24.13	23.46	0.2218
78	30	50	635000	3525	DFT-s-OFDM 16 QAM	1@1	23.03	22.36	0.1722
78	30	60	632000	3480	DFT-s-OFDM PI/2 BPSK	1@1	24.05	23.38	0.2178

78	30	60	632000	3480	DFT-s-OFDM QPSK	1@1	24.03	23.36	0.2168
78	30	60	632000	3480	DFT-s-OFDM 16 QAM	1@1	22.95	22.28	0.1690
78	30	60	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	23.77	23.1	0.2042
78	30	60	633334	3500.01	DFT-s-OFDM QPSK	1@1	23.73	23.06	0.2023
78	30	60	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	22.69	22.02	0.1592
78	30	60	634666	3519.99	DFT-s-OFDM PI/2 BPSK	1@1	24.08	23.41	0.2193
78	30	60	634666	3519.99	DFT-s-OFDM QPSK	1@1	24.08	23.41	0.2193
78	30	60	634666	3519.99	DFT-s-OFDM 16 QAM	1@1	23.07	22.4	0.1738
78	30	80	632668	3490.02	DFT-s-OFDM PI/2 BPSK	1@1	24.18	23.51	0.2244
78	30	80	632668	3490.02	DFT-s-OFDM QPSK	1@1	24.17	23.5	0.2239
78	30	80	632668	3490.02	DFT-s-OFDM 16 QAM	1@1	23.17	22.5	0.1778
78	30	80	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	23.99	23.32	0.2148
78	30	80	633334	3500.01	DFT-s-OFDM QPSK	1@1	23.97	23.3	0.2138
78	30	80	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	22.97	22.3	0.1698
78	30	80	634000	3510	DFT-s-OFDM PI/2 BPSK	1@1	23.84	23.17	0.2075
78	30	80	634000	3510	DFT-s-OFDM QPSK	1@1	23.83	23.16	0.2070
78	30	80	634000	3510	DFT-s-OFDM 16 QAM	1@1	22.87	22.2	0.1660
78	30	90	633000	3495	DFT-s-OFDM PI/2 BPSK	1@1	24.14	23.47	0.2223
78	30	90	633000	3495	DFT-s-OFDM QPSK	1@1	24.13	23.46	0.2218
78	30	90	633000	3495	DFT-s-OFDM 16 QAM	1@1	23.14	22.47	0.1766
78	30	90	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	24.2	23.53	0.2254
78	30	90	633334	3500.01	DFT-s-OFDM QPSK	1@1	24.05	23.38	0.2178
78	30	90	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	22.93	22.26	0.1683
78	30	90	633666	3504.99	DFT-s-OFDM PI/2 BPSK	1@1	24.09	23.42	0.2198
78	30	90	633666	3504.99	DFT-s-OFDM QPSK	1@1	23.98	23.31	0.2143
78	30	90	633666	3504.99	DFT-s-OFDM 16 QAM	1@1	23.52	22.85	0.1928
78	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	135@67	24.27	23.6	0.2291
78	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	24.28	23.61	0.2296
78	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@271	24.1	23.43	0.2203
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	135@67	24.1	23.43	0.2203
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@1	24.04	23.37	0.2173
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@271	24.11	23.44	0.2208
78	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	135@67	23.16	22.49	0.1774
78	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	22.61	21.94	0.1563
78	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	1@271	22.87	22.2	0.1660
78	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	135@67	21.61	20.94	0.1242
78	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	21.5	20.83	0.1211
78	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	1@271	22.29	21.62	0.1452
78	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	135@67	19.56	18.89	0.0774
78	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	19.72	19.05	0.0804
78	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	1@271	19.62	18.95	0.0785
78	30	100	633334	3500.01	CP-OFDM QPSK	137@68	22.59	21.92	0.1556
78	30	100	633334	3500.01	CP-OFDM QPSK	1@1	21.79	21.12	0.1294
78	30	100	633334	3500.01	CP-OFDM QPSK	1@271	22.52	21.85	0.1531

Frequency Stability

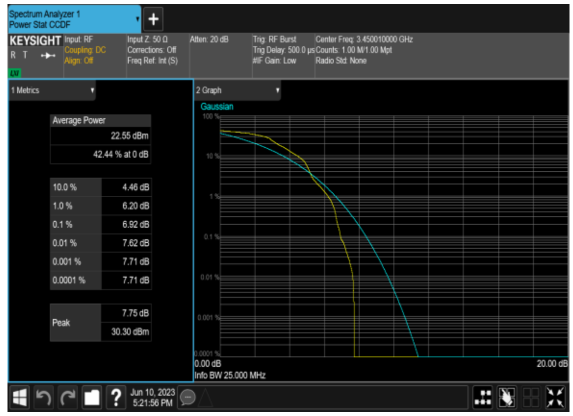
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	24@0	-0.0023	**PASS**	NV
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	24@0	0.0010	**PASS**	LV
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	24@0	0.0016	**PASS**	HV
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	24@0	0.0027	**PASS**	-30℃
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	24@0	0.0014	**PASS**	-20℃
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	24@0	-0.0011	**PASS**	-10℃
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	24@0	0.0026	**PASS**	0℃
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	24@0	0.0017	**PASS**	10℃
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	24@0	0.0024	**PASS**	20℃
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	24@0	0.0032	**PASS**	30℃
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	24@0	-0.0023	**PASS**	40℃
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	24@0	0.0028	**PASS**	50℃

Peak to Average Ratio

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
78	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	270@0	10.29	13	**PASS**
78	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@0	6.92	13	**PASS**
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	270@0	10.51	13	**PASS**
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@0	7.55	13	**PASS**

N78(100M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH

N78(100M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_Mid_CH



N78(100M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH

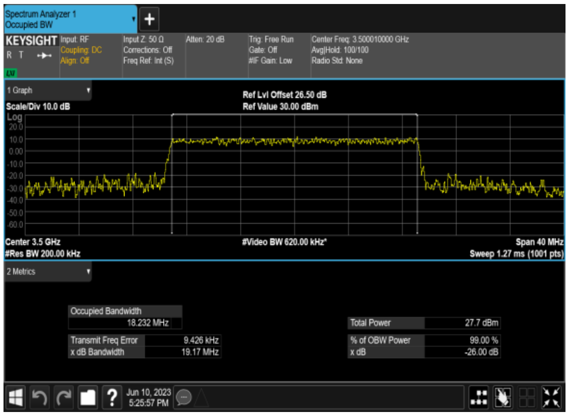
N78(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH

Occupied Bandwidth

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
78	30	20	633334	3500.01	CP-OFDM QPSK	51@0	18.232	19.17
78	30	20	633334	3500.01	CP-OFDM 16 QAM	51@0	18.154	19.01
78	30	20	633334	3500.01	CP-OFDM 64 QAM	51@0	18.146	19.01
78	30	20	633334	3500.01	CP-OFDM 256 QAM	51@0	18.212	18.9
78	30	30	633334	3500.01	CP-OFDM QPSK	78@0	27.792	29.0
78	30	30	633334	3500.01	CP-OFDM 16 QAM	78@0	27.828	28.89
78	30	30	633334	3500.01	CP-OFDM 64 QAM	78@0	27.838	29.12
78	30	30	633334	3500.01	CP-OFDM 256 QAM	78@0	27.81	29.0
78	30	40	633334	3500.01	CP-OFDM QPSK	106@0	37.797	39.14
78	30	40	633334	3500.01	CP-OFDM 16 QAM	106@0	37.891	39.2
78	30	40	633334	3500.01	CP-OFDM 64 QAM	106@0	37.774	39.18
78	30	40	633334	3500.01	CP-OFDM 256 QAM	106@0	37.781	39.26
78	30	50	633334	3500.01	CP-OFDM QPSK	133@0	47.485	49.07
78	30	50	633334	3500.01	CP-OFDM 16 QAM	133@0	47.496	49.02
78	30	50	633334	3500.01	CP-OFDM 64 QAM	133@0	47.406	49.09
78	30	50	633334	3500.01	CP-OFDM 256 QAM	133@0	47.342	49.02
78	30	60	633334	3500.01	CP-OFDM QPSK	162@0	57.722	59.6
78	30	60	633334	3500.01	CP-OFDM 16 QAM	162@0	57.774	59.68
78	30	60	633334	3500.01	CP-OFDM 64 QAM	162@0	57.762	59.7
78	30	60	633334	3500.01	CP-OFDM 256 QAM	162@0	57.843	59.63
78	30	80	633334	3500.01	CP-OFDM QPSK	217@0	77.449	80.01
78	30	80	633334	3500.01	CP-OFDM 16 QAM	217@0	77.514	79.94
78	30	80	633334	3500.01	CP-OFDM 64 QAM	217@0	77.498	79.85
78	30	80	633334	3500.01	CP-OFDM 256 QAM	217@0	77.429	79.76
78	30	90	633334	3500.01	CP-OFDM QPSK	245@0	87.546	90.1
78	30	90	633334	3500.01	CP-OFDM 16 QAM	245@0	87.384	90.18

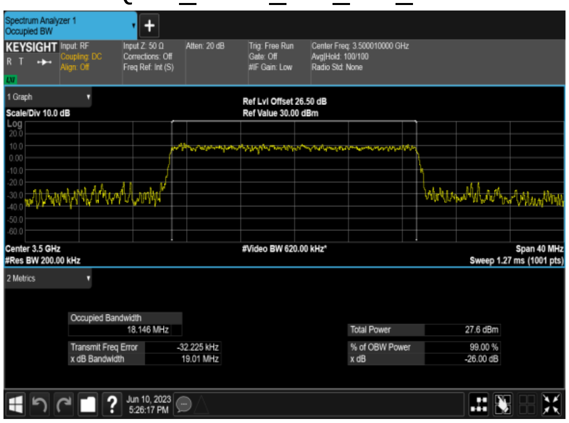
78	30	90	633334	3500.01	CP-OFDM 64 QAM	245@0	87.179	90.18
78	30	90	633334	3500.01	CP-OFDM 256 QAM	245@0	87.233	90.14
78	30	100	633334	3500.01	CP-OFDM QPSK	273@0	97.594	100.3
78	30	100	633334	3500.01	CP-OFDM 16 QAM	273@0	97.663	100.6
78	30	100	633334	3500.01	CP-OFDM 64 QAM	273@0	97.469	100.4
78	30	100	633334	3500.01	CP-OFDM 256 QAM	273@0	97.503	100.4

N78(20M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

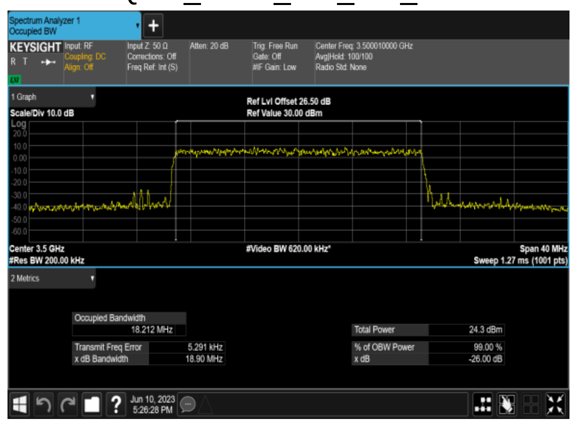


N78(20M)_CP-OFDM_16QAM_Outer_Full_Mid_CH

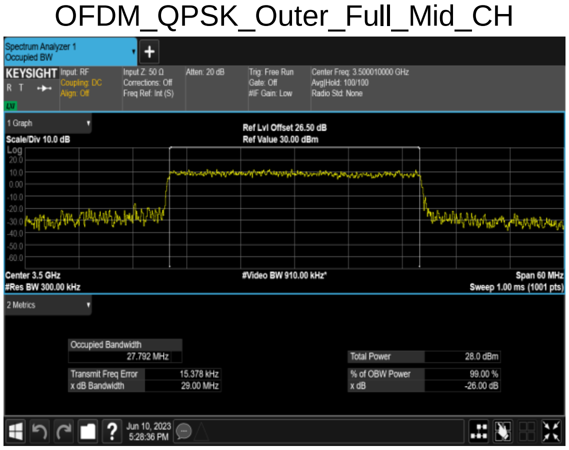
N78(20M)_CP-OFDM_64QAM_Outer_Full_Mid_CH



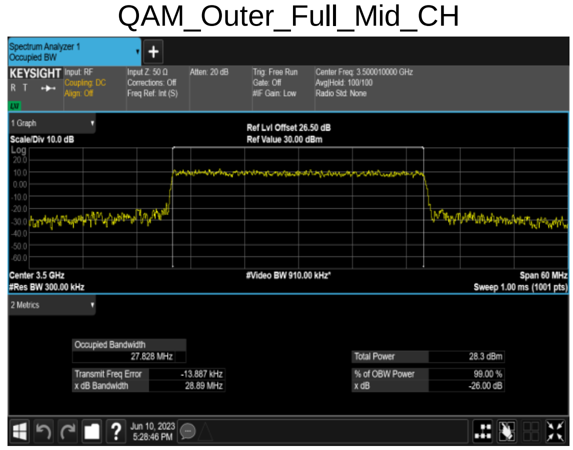
N78(20M)_CP-OFDM_256QAM_Outer_Full_Mid_CH



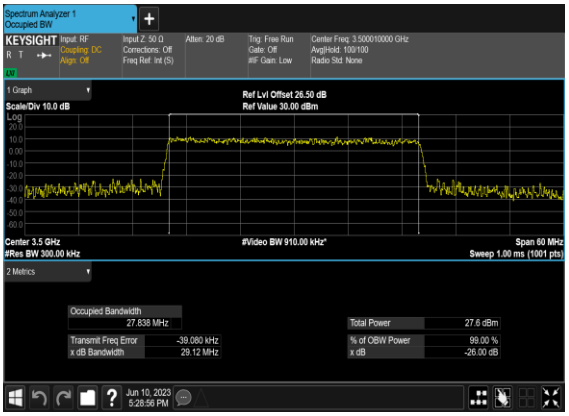
N78(30M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



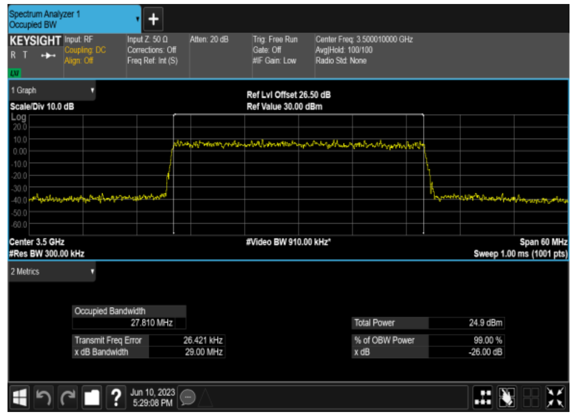
N78(30M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



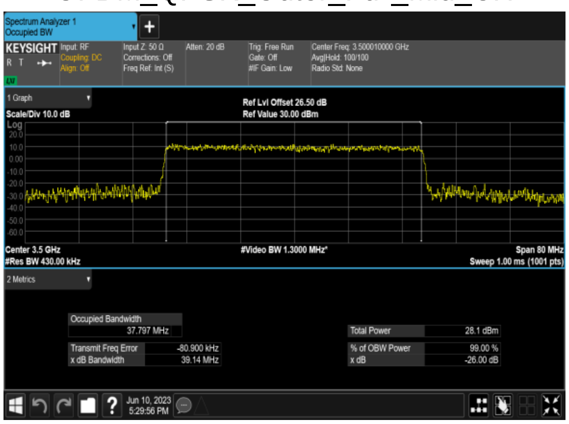
N78(30M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



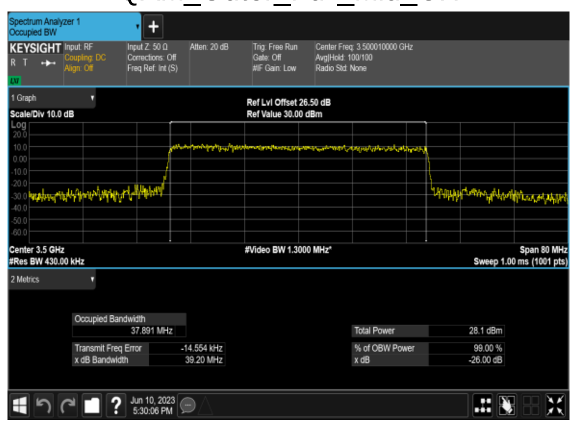
N78(30M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



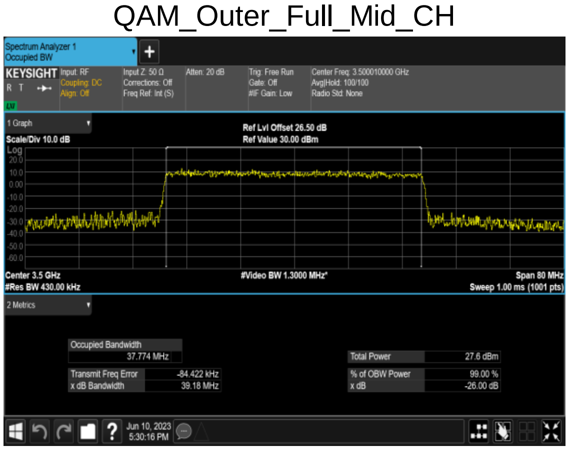
N78(40M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



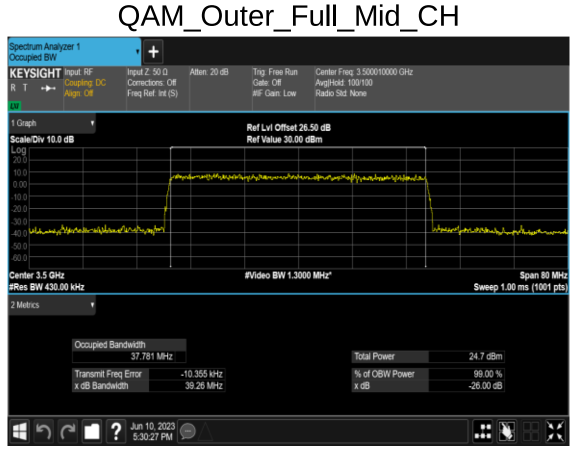
N78(40M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



N78(40M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

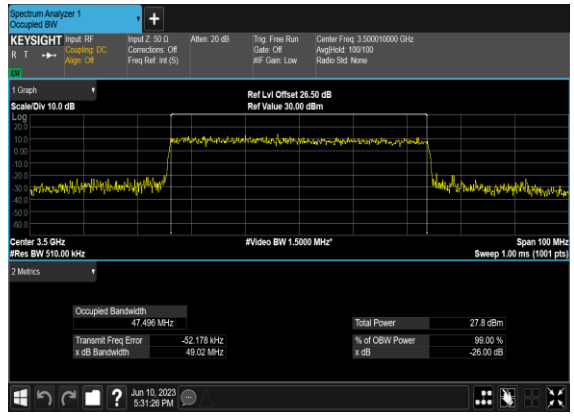


N78(40M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

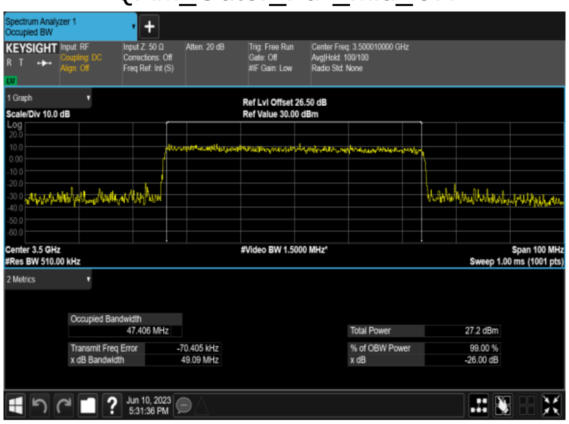


N78(50M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

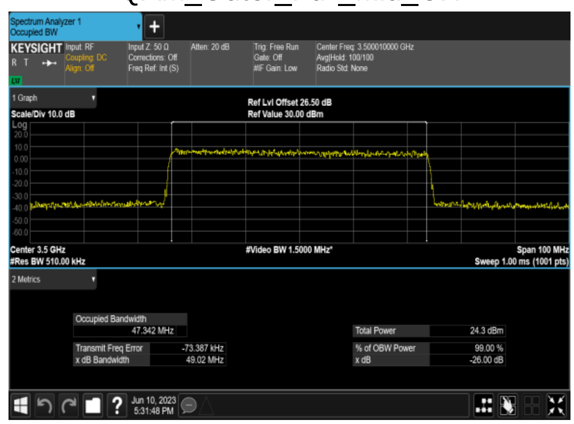
N78(50M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



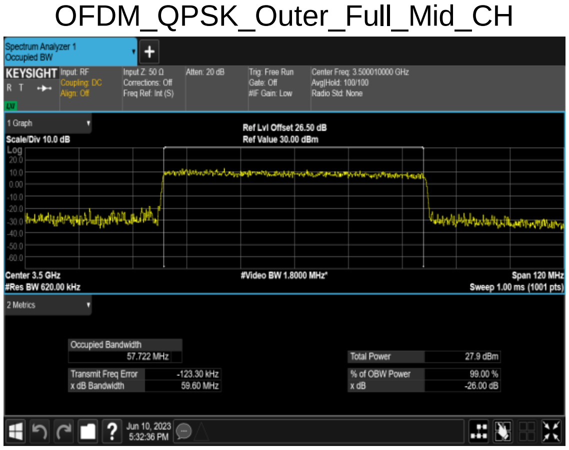
N78(50M)_CP-OFDM_64QAM_Outer_Full_Mid_CH



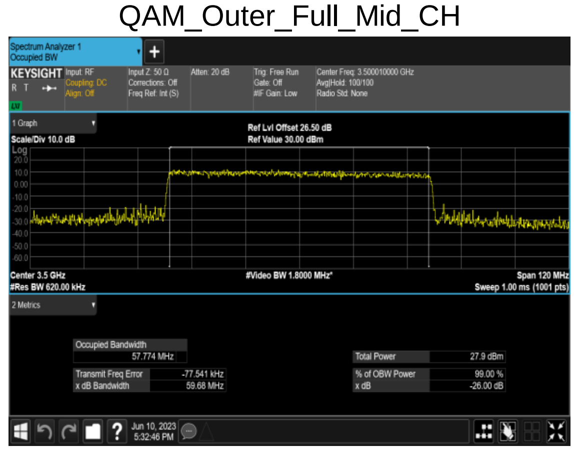
N78(50M)_CP-OFDM_256QAM_Outer_Full_Mid_CH



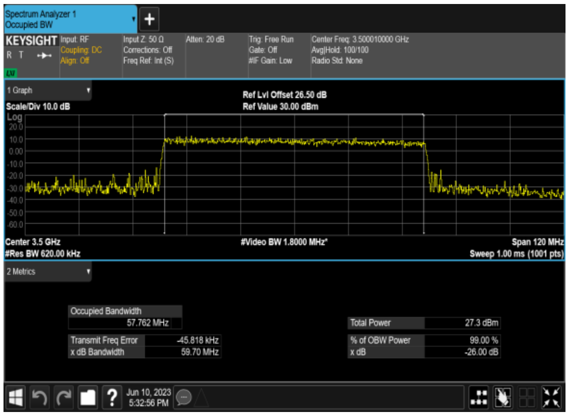
N78(60M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



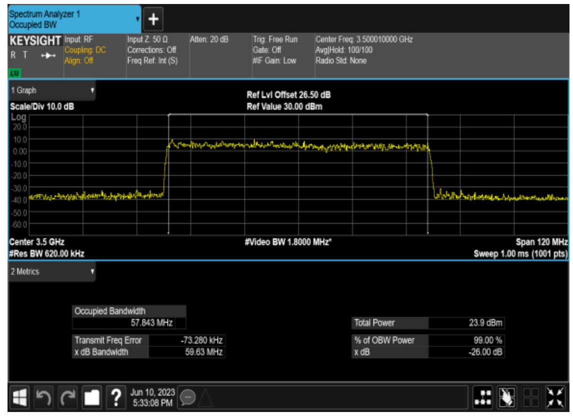
N78(60M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



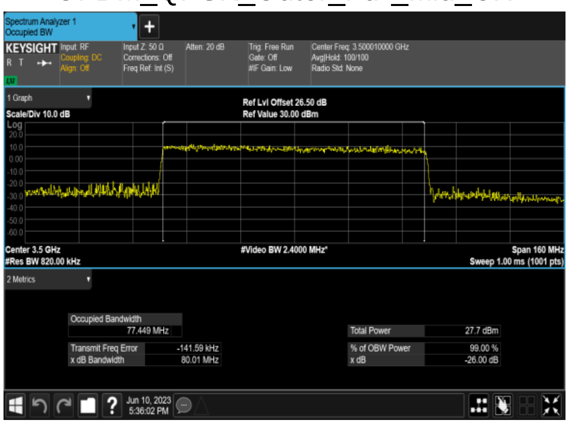
N78(60M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



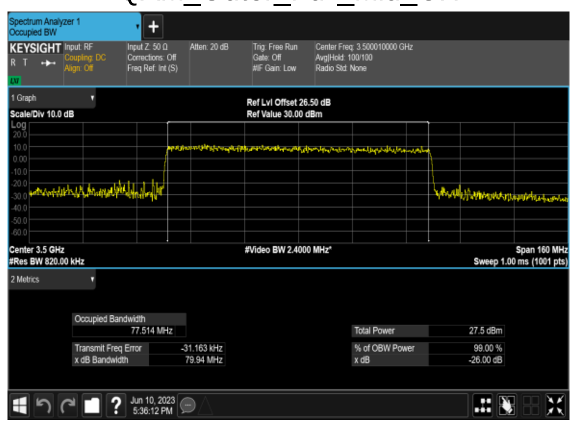
N78(60M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



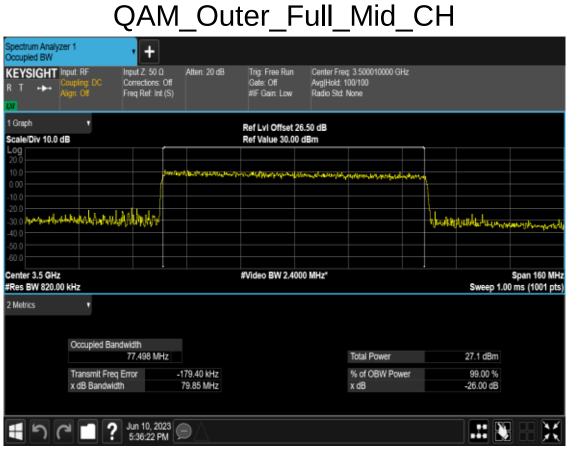
N78(80M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



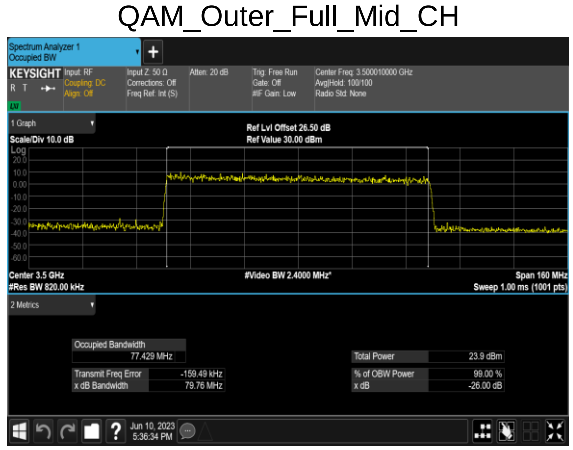
N78(80M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



N78(80M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



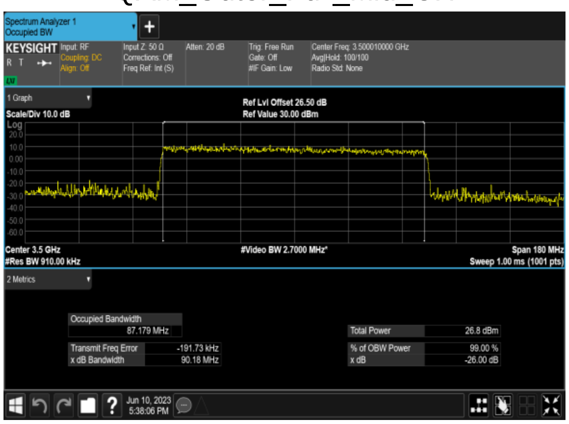
N78(80M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



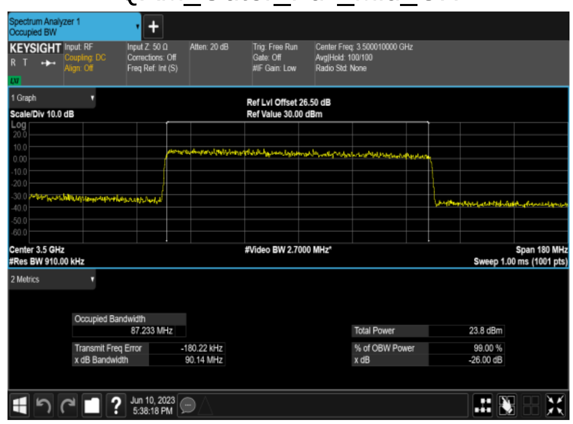
N78(90M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

N78(90M)_CP-OFDM_16QAM_Outer_Full_Mid_CH

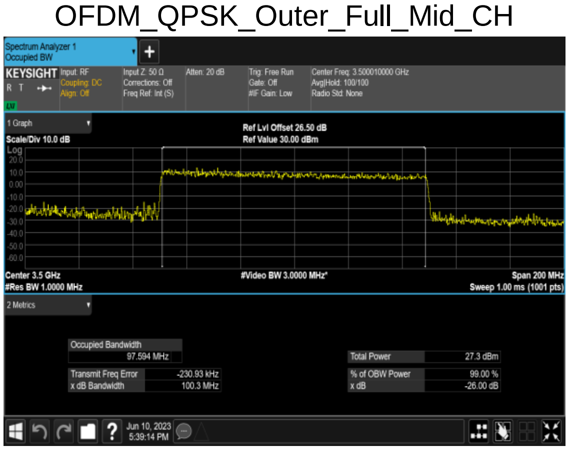
N78(90M)_CP-OFDM_64QAM_Outer_Full_Mid_CH



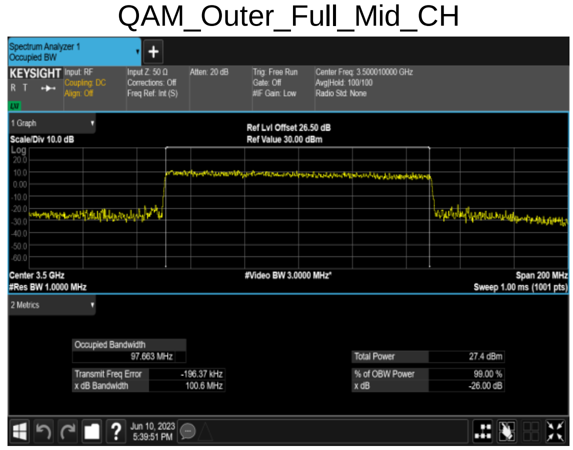
N78(90M)_CP-OFDM_256QAM_Outer_Full_Mid_CH



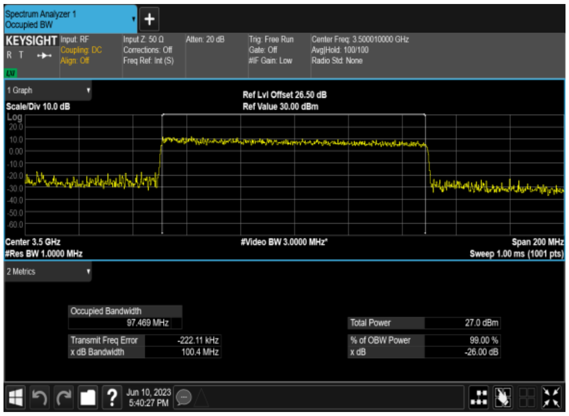
N78(100M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



N78(100M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



N78(100M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



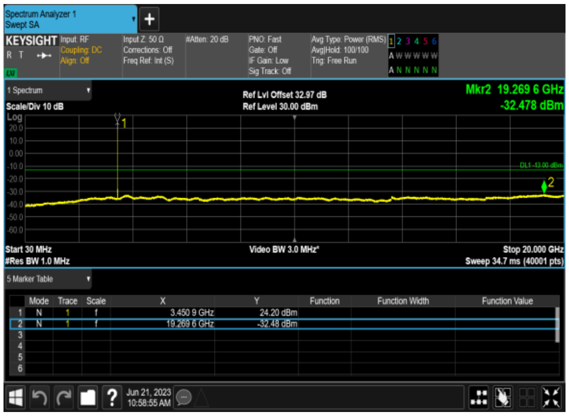
N78(100M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

Conducted Spurious Emissions

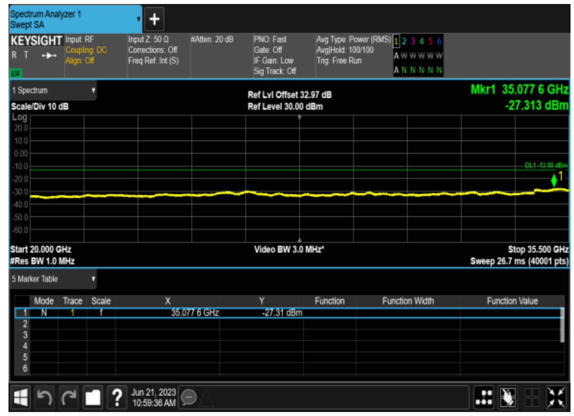
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
78	30	20	630668	3460.02	DFT-s-OFDM BPSK	1@0	see graph	**---**
78	30	20	630668	3460.02	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
78	30	20	630668	3460.02	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
78	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@0	see graph	**---**
78	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	30	20	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	**---**
78	30	20	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
78	30	20	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	**---**
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	30	20	636000	3540.0	DFT-s-OFDM BPSK	1@0	see graph	**---**
78	30	20	636000	3540.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
78	30	20	636000	3540.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
78	30	20	636000	3540.0	DFT-s-OFDM QPSK	1@0	see graph	**---**
78	30	20	636000	3540.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	30	20	636000	3540.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	30	50	631668	3475.02	DFT-s-OFDM BPSK	1@0	see graph	**---**
78	30	50	631668	3475.02	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
78	30	50	631668	3475.02	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
78	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@0	see graph	**---**
78	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@0	see graph	**PASS**

78	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	30	50	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	**---**
78	30	50	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
78	30	50	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
78	30	50	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	**---**
78	30	50	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	30	50	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	30	50	635000	3525.0	DFT-s-OFDM BPSK	1@0	see graph	**---**
78	30	50	635000	3525.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
78	30	50	635000	3525.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
78	30	50	635000	3525.0	DFT-s-OFDM QPSK	1@0	see graph	**---**
78	30	50	635000	3525.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	30	50	635000	3525.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	30	100	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	**---**
78	30	100	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
78	30	100	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	**---**
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	**PASS**

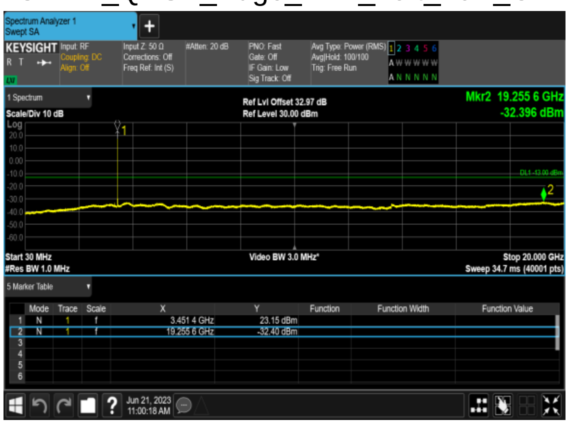
N78(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



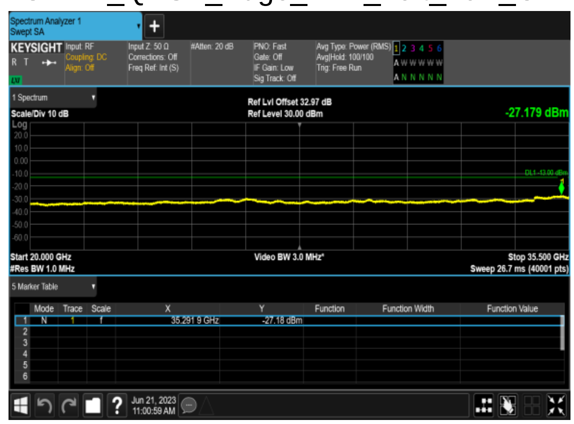
N78(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



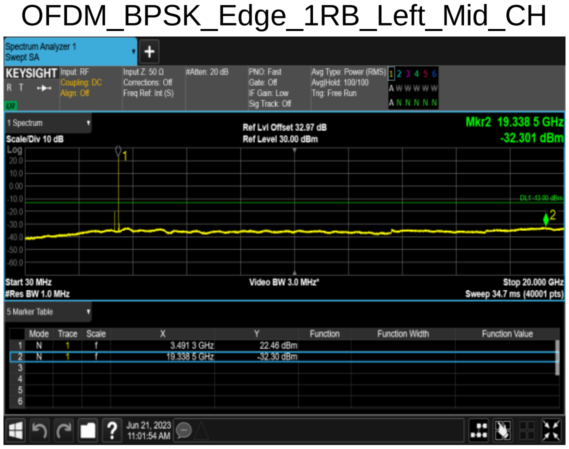
N78(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



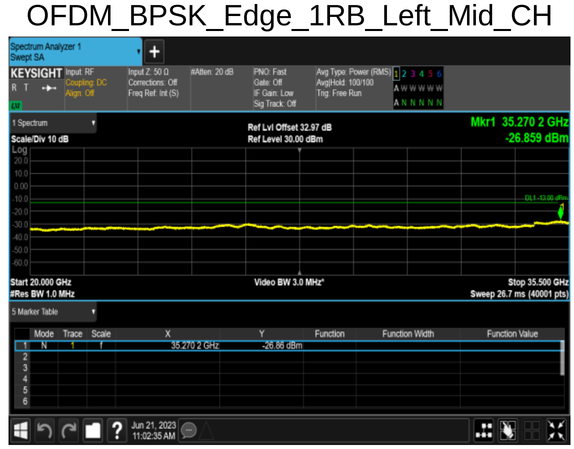
N78(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



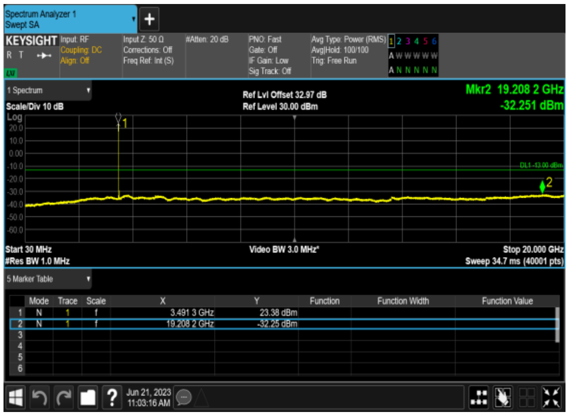
N78(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



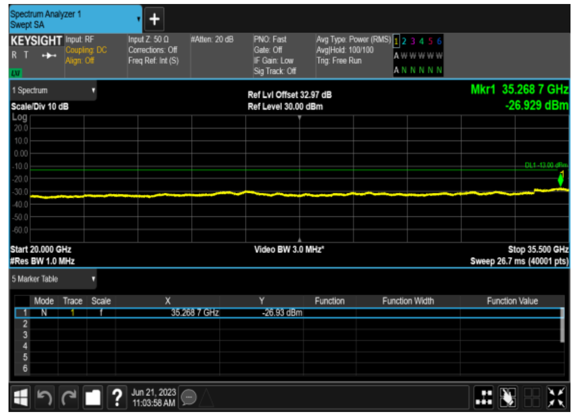
N78(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



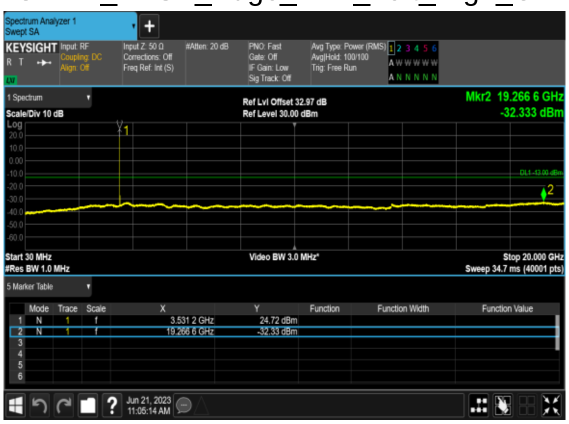
N78(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



N78(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



N78(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



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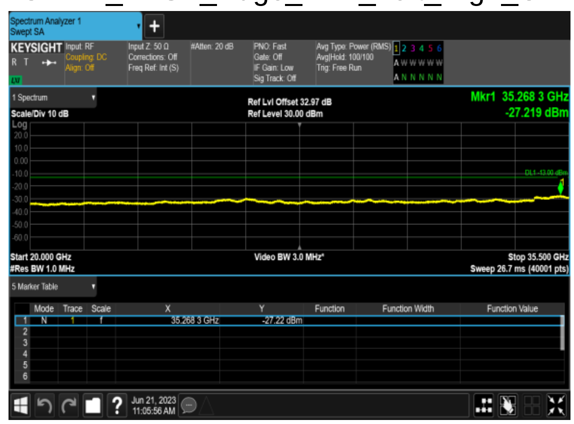

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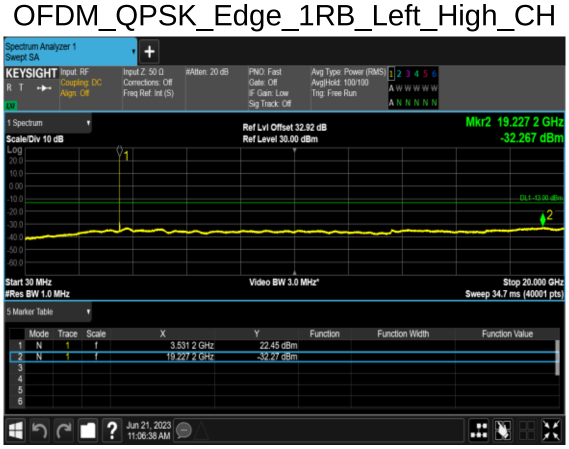
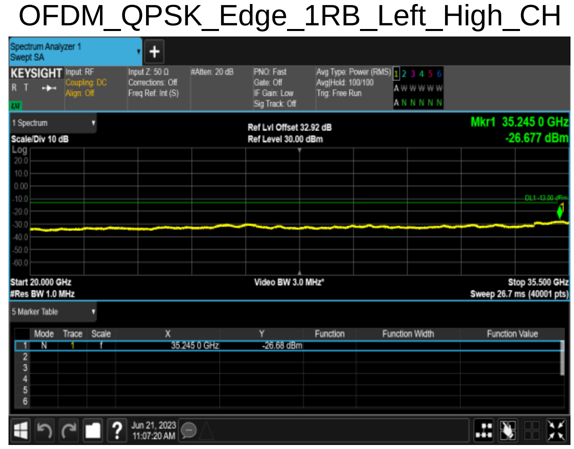
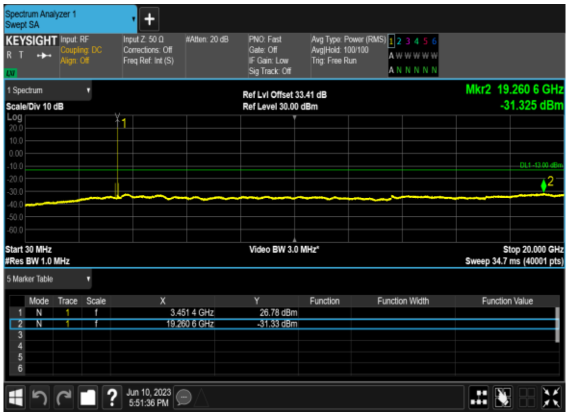


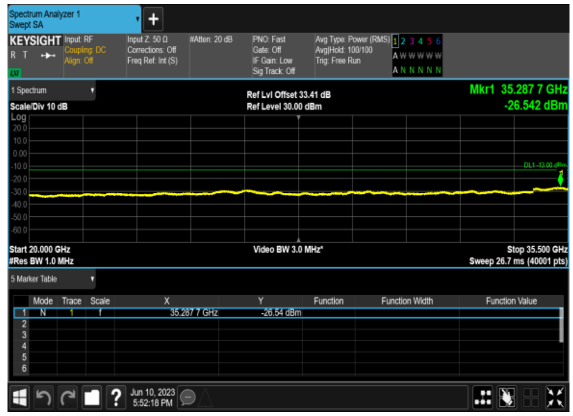
N78(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



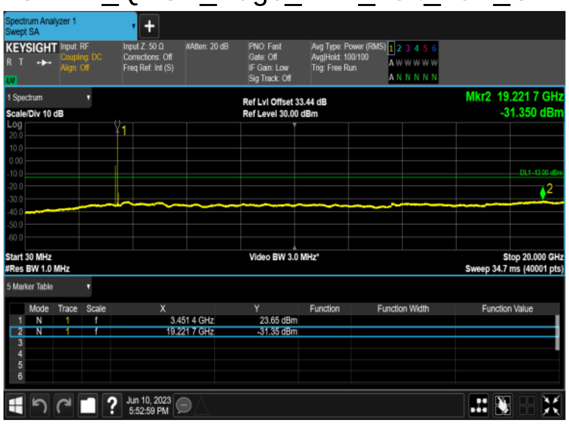
N78(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



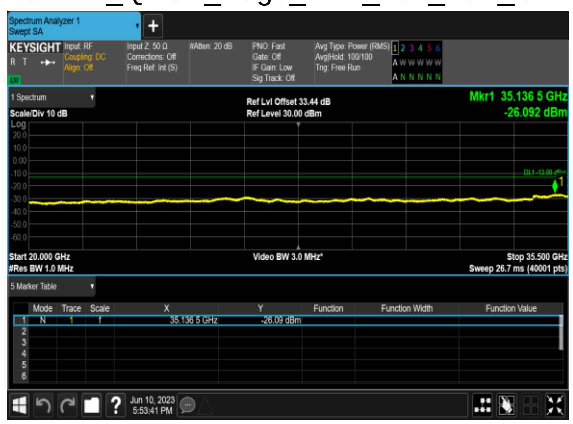
N78(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



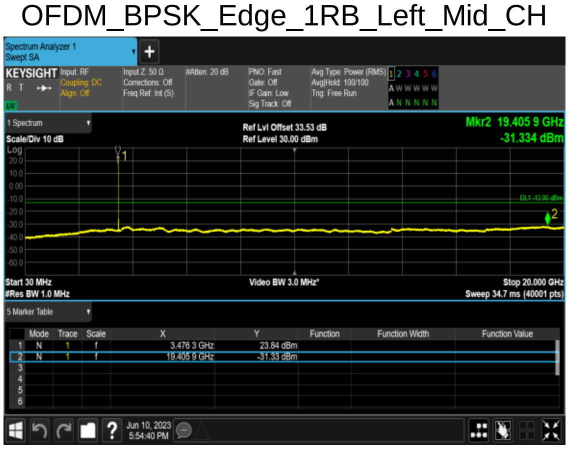
N78(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



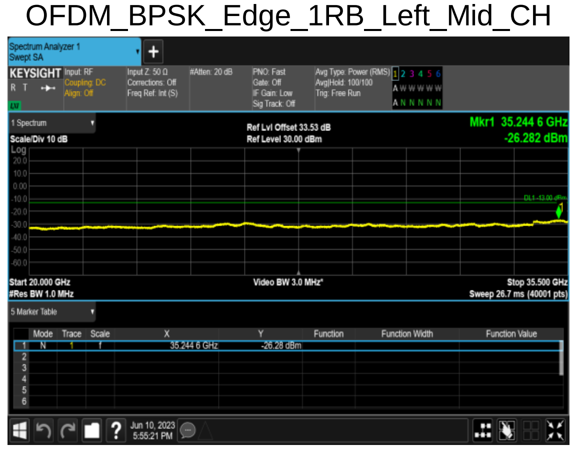
N78(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



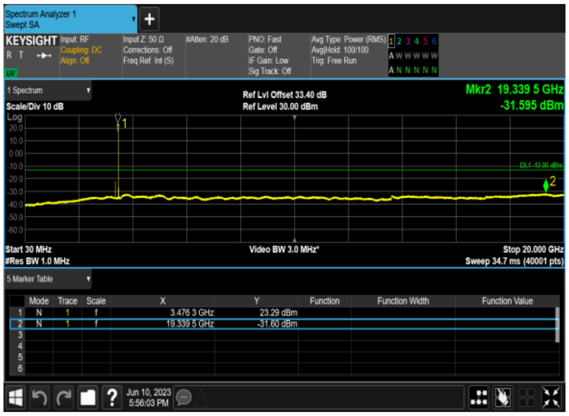
N78(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



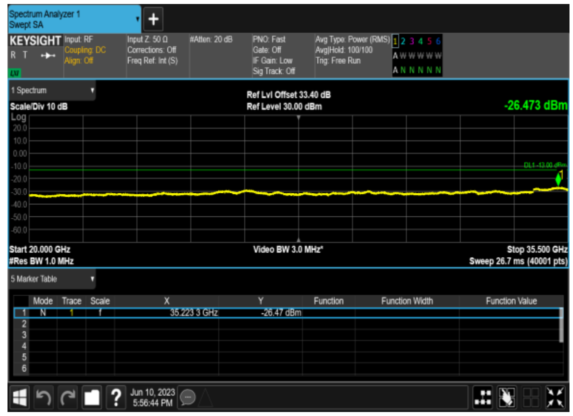
N78(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



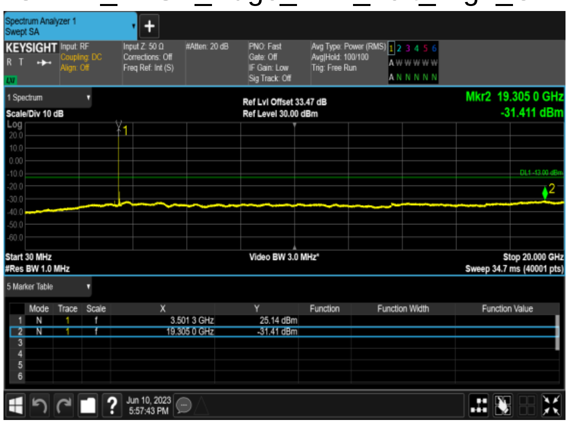
N78(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



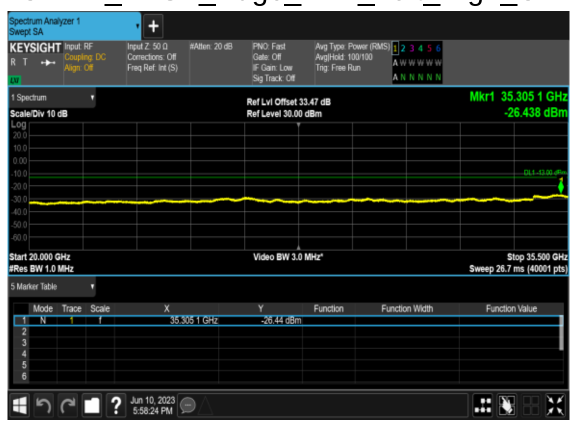
N78(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



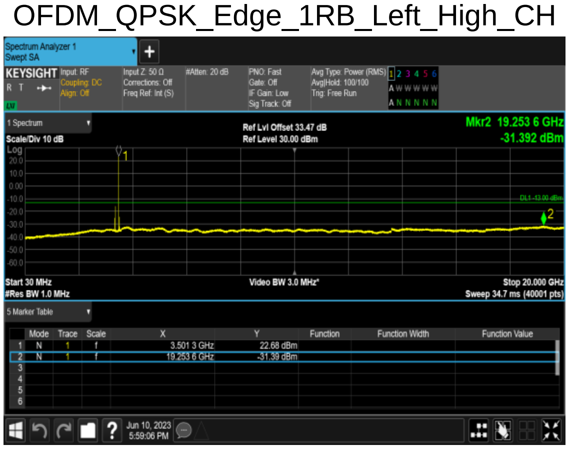
N78(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



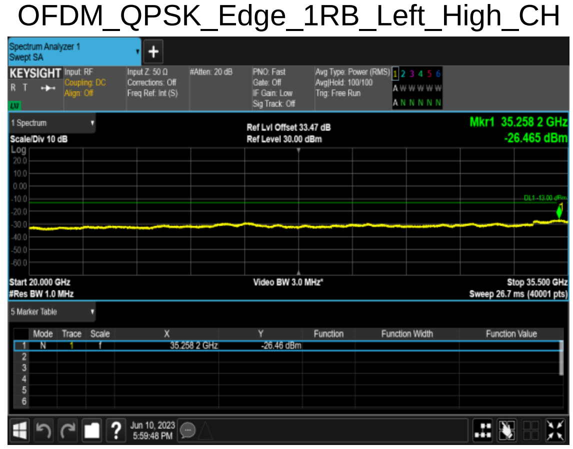
N78(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



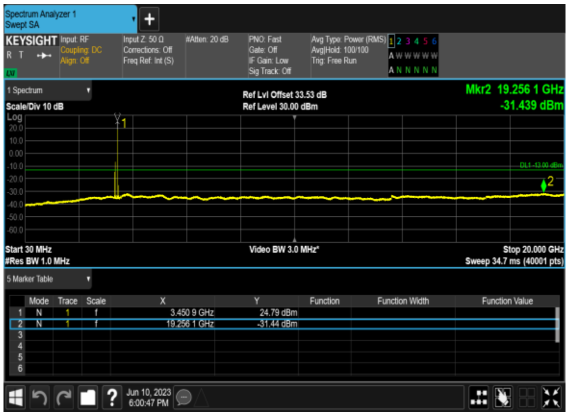
N78(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



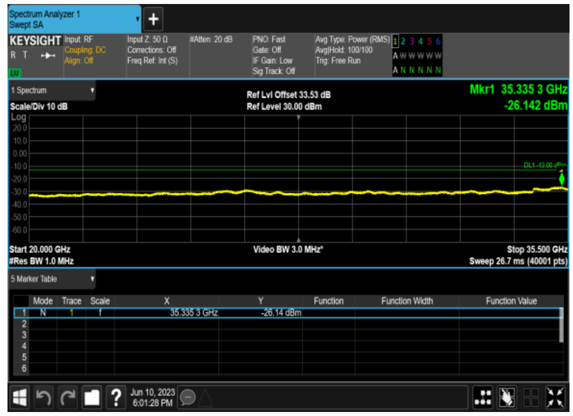
N78(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



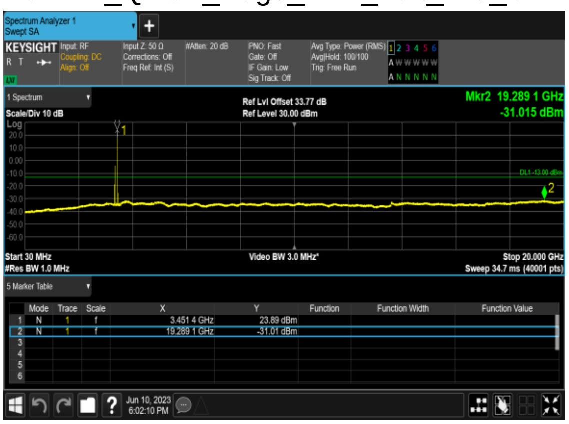
N78(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



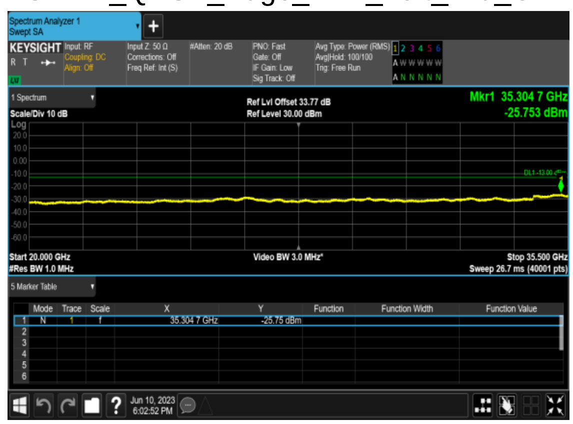
N78(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



N78(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



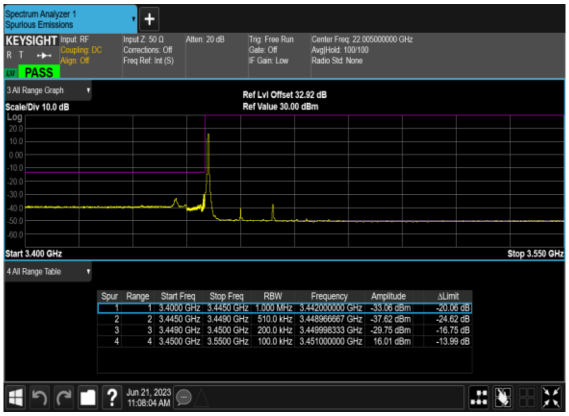
N78(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



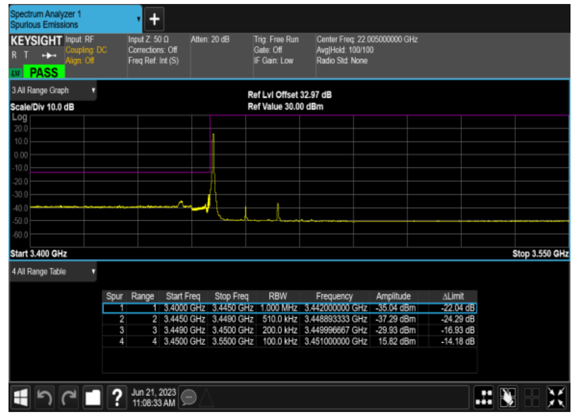
Conducted Band Edge

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
78	30	20	630668	3460.02	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
78	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	30	20	630668	3460.02	DFT-s-OFDM BPSK	50@0	see graph	**PASS**
78	30	20	630668	3460.02	DFT-s-OFDM QPSK	50@0	see graph	**PASS**
78	30	20	636000	3540.0	DFT-s-OFDM BPSK	1@50	see graph	**PASS**
78	30	20	636000	3540.0	DFT-s-OFDM QPSK	1@50	see graph	**PASS**
78	30	20	636000	3540.0	DFT-s-OFDM BPSK	50@0	see graph	**PASS**
78	30	20	636000	3540.0	DFT-s-OFDM QPSK	50@0	see graph	**PASS**
78	30	50	631668	3475.02	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
78	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	30	50	631668	3475.02	DFT-s-OFDM BPSK	128@0	see graph	**PASS**
78	30	50	631668	3475.02	DFT-s-OFDM QPSK	128@0	see graph	**PASS**
78	30	50	635000	3525.0	DFT-s-OFDM BPSK	1@132	see graph	**PASS**
78	30	50	635000	3525.0	DFT-s-OFDM QPSK	1@132	see graph	**PASS**
78	30	50	635000	3525.0	DFT-s-OFDM BPSK	128@0	see graph	**PASS**
78	30	50	635000	3525.0	DFT-s-OFDM QPSK	128@0	see graph	**PASS**
78	30	100	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
78	30	100	633334	3500.01	DFT-s-OFDM BPSK	1@272	see graph	**PASS**
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@272	see graph	**PASS**
78	30	100	633334	3500.01	DFT-s-OFDM BPSK	270@0	see graph	**PASS**
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	270@0	see graph	**PASS**

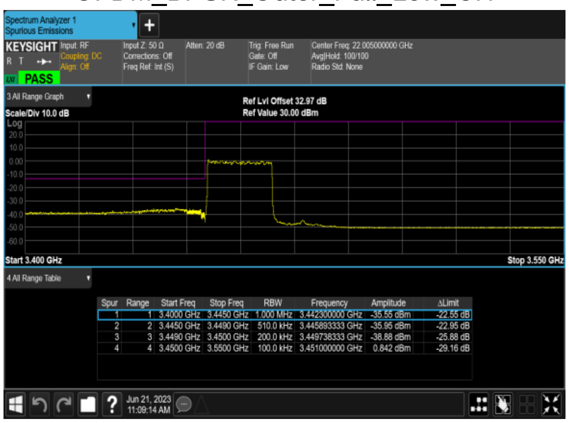
N78(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



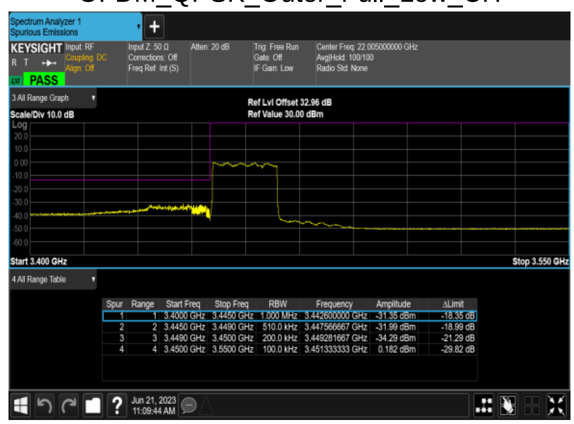
N78(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



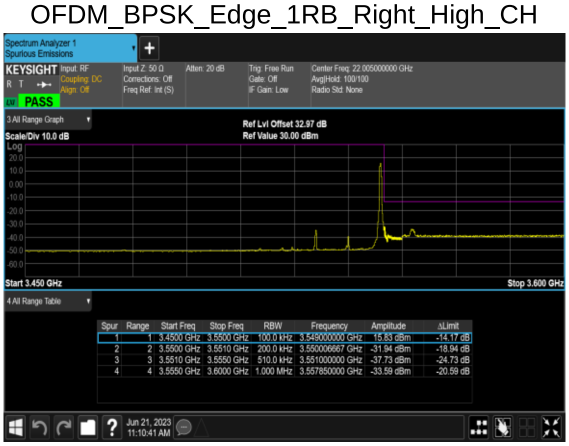
N78(20M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH



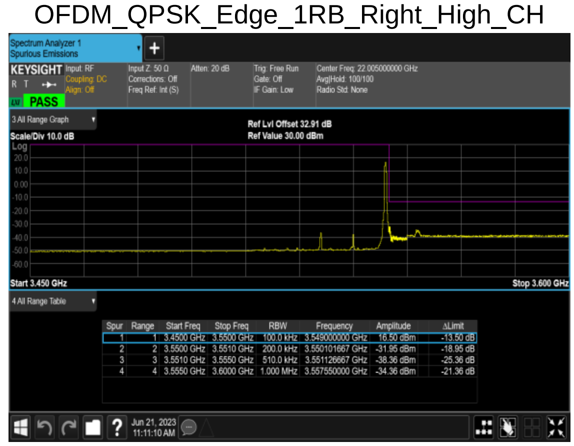
N78(20M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



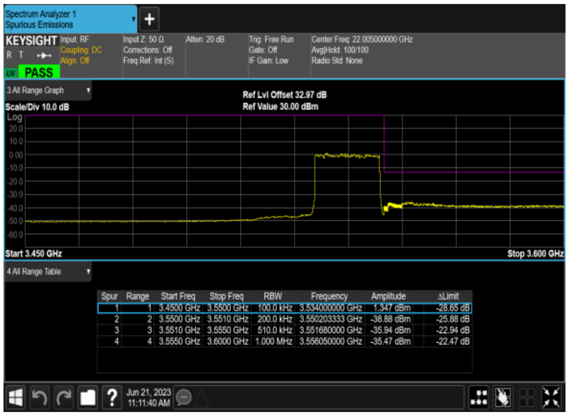
N78(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH



N78(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH

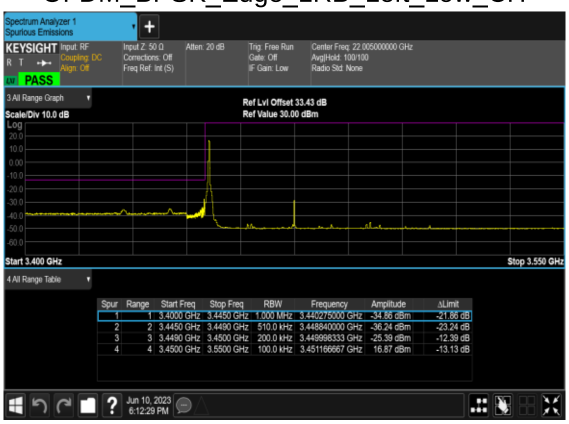


N78(20M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH

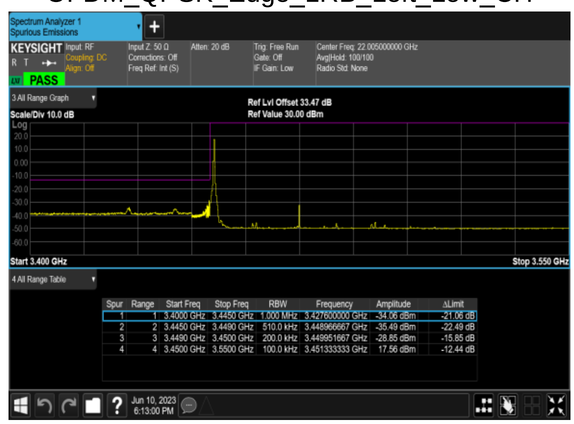


N78(20M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH

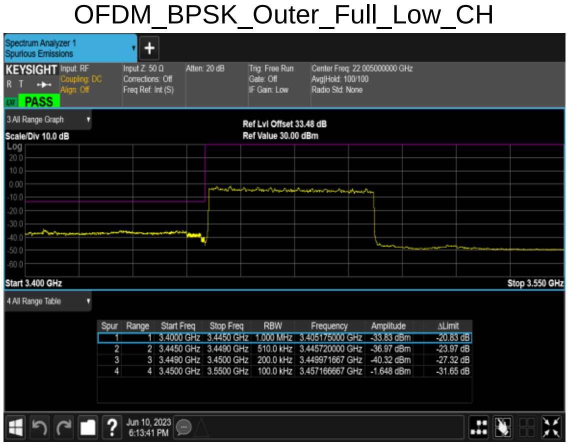
N78(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



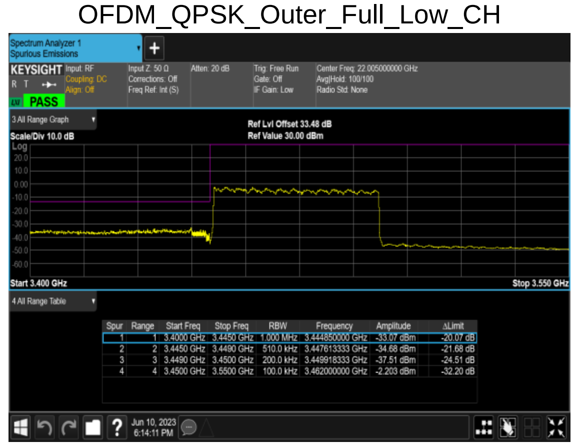
N78(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



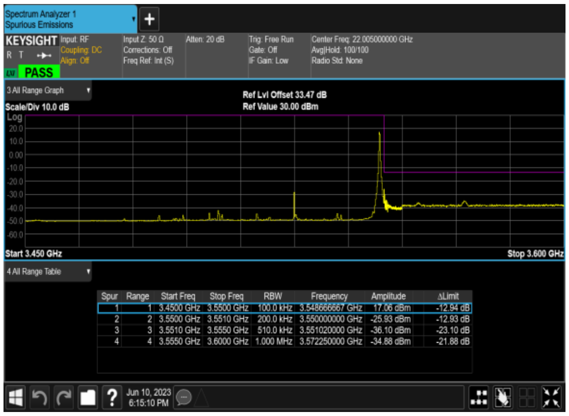
N78(50M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH



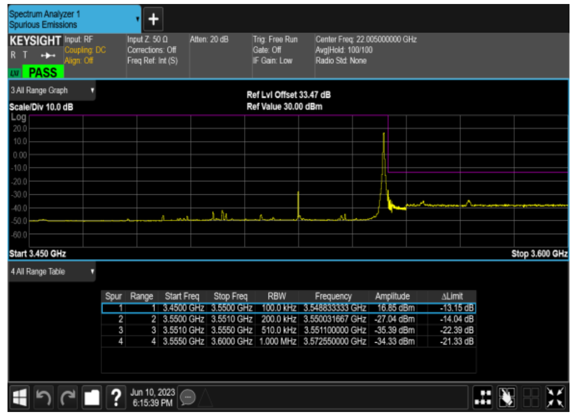
N78(50M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



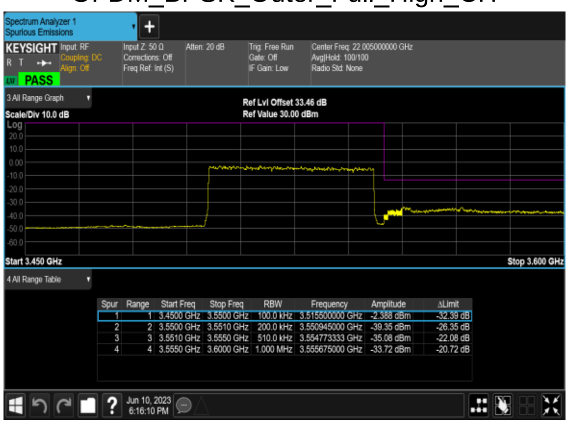
N78(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH



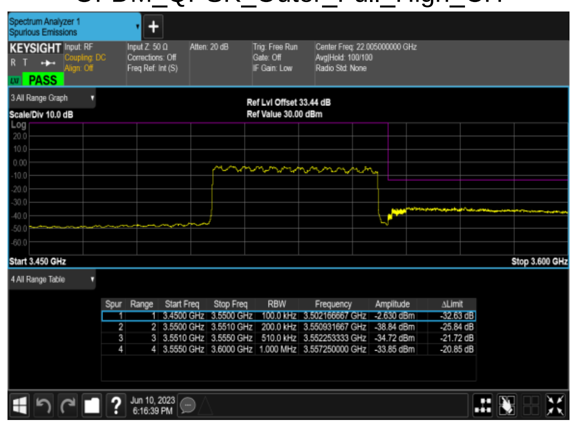
N78(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



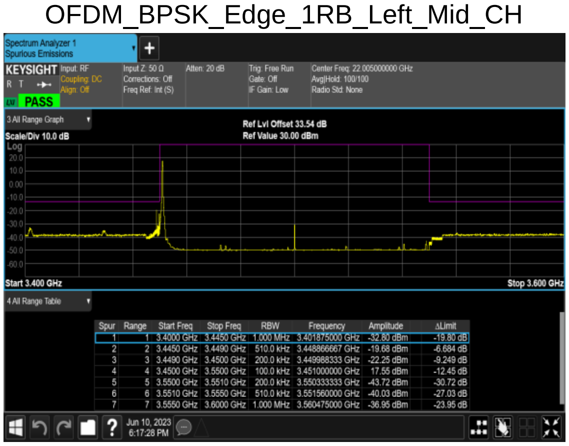
N78(50M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH



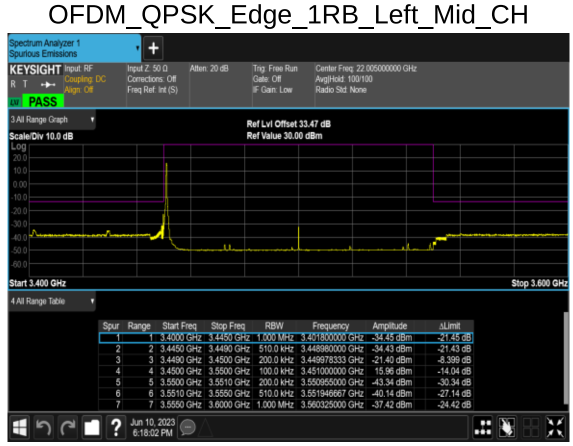
N78(50M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



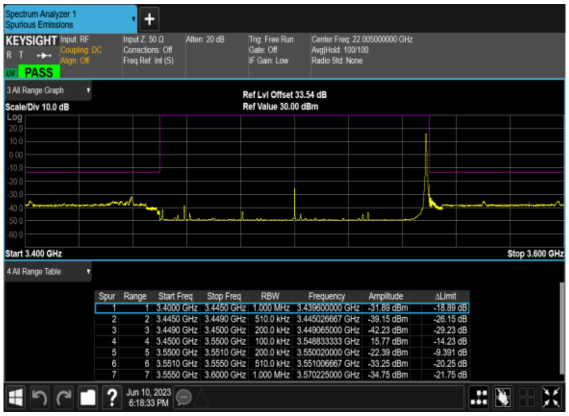
N78(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



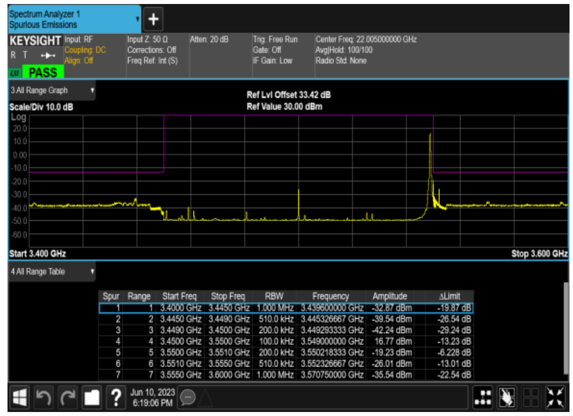
N78(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



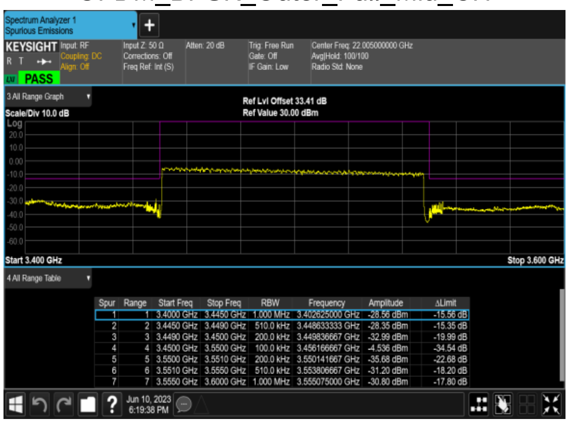
N78(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_Mid_CH



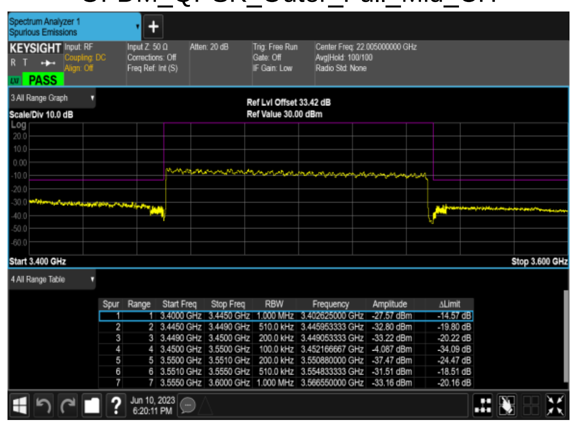
N78(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_Mid_CH



N78(100M)_DFT-s-OFDM_BPSK_Outer_Full_Mid_CH



N78(100M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	LiangPing Zhou	Temperature :	22~25℃
		Relative Humidity :	48~52%

RSE pre-scanned harmonic for different antennas, choose the worst antenna perform final test and record in the report.

n78 SA / NR 100MHz / QPSK / ANT5									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	6902.5	-59.11	-13	-46.11	-57.31	-62.41	8.30	11.60	H
	10353.75	-55.35	-13	-42.35	-58.13	-56.87	10.48	12.00	H
	13805	-48.21	-13	-35.21	-55.70	-49.91	11.80	13.50	H
	6902.5	-58.38	-13	-45.38	-57.06	-61.68	8.30	11.60	V
	10353.75	-55.43	-13	-42.43	-57.34	-56.95	10.48	12.00	V
	13805	-49.64	-13	-36.64	-56.47	-51.34	11.80	13.50	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

EN-DC_41A_n78A / LTE 10MHz + NR 100MHz / QPSK/ LTE(ANT4) + NR(ANT5)									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
B41 Middle	5195.00	-59.20	-25	-34.20	-80.97	-64.76	7.14	12.70	H
	7792.50	-58.20	-25	-33.20	-57.37	-61.50	8.30	11.60	H
	10390.00	-54.99	-25	-29.99	-57.86	-56.51	10.48	12.00	H
	5195.00	-58.94	-25	-33.94	-81.02	-64.50	7.14	12.70	V
	7792.50	-58.46	-25	-33.46	-57.45	-61.76	8.30	11.60	V
	10390.00	-55.76	-25	-30.76	-57.83	-57.28	10.48	12.00	V
N78 Middle	6902.5	-59.11	-13	-46.11	-57.31	-62.41	8.30	11.60	H
	10353.75	-54.77	-13	-41.77	-57.55	-56.29	10.48	12.00	H
	13805	-50.31	-13	-37.31	-57.80	-52.01	11.80	13.50	H
	6902.5	-58.88	-13	-45.88	-57.56	-62.18	8.30	11.60	V
	10353.75	-55.43	-13	-42.43	-57.34	-56.95	10.48	12.00	V
	13805	-50.88	-13	-37.88	-57.71	-52.58	11.80	13.50	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

n77 SA / NR 100MHz / QPSK / ANT5									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	6902.5	-59.01	-13	-46.01	-57.21	-62.31	8.30	11.60	H
	10353.75	-54.41	-13	-41.41	-57.19	-55.93	10.48	12.00	H
	13805	-46.75	-13	-33.75	-54.24	-48.45	11.80	13.50	H
	6902.5	-58.63	-13	-45.63	-57.31	-61.93	8.30	11.60	V
	10353.75	-54.99	-13	-41.99	-56.9	-56.51	10.48	12.00	V
	13805	-49.42	-13	-36.42	-56.25	-51.12	11.80	13.50	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

EN-DC_41A_n77A / LTE 10MHz + NR 100MHz / QPSK/ LTE(ANT4) + NR(ANT5)									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
B41 Middle	5195	-59.73	-25	-34.73	-81.50	-65.29	7.14	12.70	H
	7792.5	-58.42	-25	-33.42	-57.59	-61.72	8.30	11.60	H
	10390	-54.90	-25	-29.90	-57.77	-56.42	10.48	12.00	H
	5195	-58.70	-25	-33.70	-80.78	-64.26	7.14	12.70	V
	7792.5	-58.61	-25	-33.61	-57.6	-61.91	8.30	11.60	V
	10390	-55.61	-25	-30.61	-57.68	-57.13	10.48	12.00	V
N77 Middle	6902.5	-59.13	-13	-46.13	-57.33	-62.43	8.30	11.60	H
	10353.75	-54.75	-13	-41.75	-57.53	-56.27	10.48	12.00	H
	13805	-50.05	-13	-37.05	-57.54	-51.75	11.80	13.50	H
	6902.5	-58.75	-13	-45.75	-57.43	-62.05	8.30	11.60	V
	10353.75	-55.70	-13	-42.70	-57.61	-57.22	10.48	12.00	V
	13805	-50.70	-13	-37.70	-57.53	-52.40	11.80	13.50	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.