FCC RF Test Report

APPLICANT	**:**	**Motorola Mobility LLC**
EQUIPMENT	**:**	**Mobile Cellular Phone**
BRAND NAME	**:**	**Motorola**
MODEL NAME	**:**	**XT2205-1, XT2205-2**
FCC ID	**:**	**IHDT56AE7**
STANDARD	**:**	**47 CFR Part 2, 96**
CLASSIFICATION	**:**	**Citizens Band End User Devices (CBE)**
EQUIPMENT TYPE	**:**	**End User Equipment**
TEST DATE(S)	**:**	**Apr. 29, 2022 ~ May 23, 2022**

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

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

Jason Jia

Approved by: Jason Jia

ACCREDITED Cert #5145.01

Sporton International Inc. (ShenZhen)

1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055

People's Republic of China

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History of this test report

Report No.	Version	Description	Issued Date
FG240834Q	01	Initial issue of report	Jun. 06, 2022

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	§2.1046	Conducted Output Power	Reporting only	-
3.3	§96.41	Maximum E.I.R.P	Pass	-
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 12.32 dB at 14719.92 MHz

Declaration of Conformity:
The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
Comments and Explanations:
The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

1 General Description

1.1 Applicant

Motorola Mobility LLC
222 W, Merchandise Mart Plaza, Chicago IL 60654 USA

1.2 Manufacturer

Motorola Mobility LLC
222 W, Merchandise Mart Plaza, Chicago IL 60654 USA

1.3 Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Cellular Phone
Brand Name	Motorola
Model Name	XT2205-1, XT2205-2
FCC ID	IHDT56AE7
Tx Frequency	5G NR n48: 3550 MHz ~ 3700 MHz
Rx Frequency	5G NR n48: 3550 MHz ~ 3700 MHz
SCS	15kHz / 30kHz
Bandwidth	10MHz / 15MHz / 20MHz / 30MHz / 40MHz
Antenna Gain / Type	Ant. 3: 5G NR n48 : -6.0 dBi / IFA Antenna Ant. 4: 5G NR n48 : -5.8 dBi / IFA Antenna Ant. 5: 5G NR n48 : -10.0 dBi / IFA Antenna Ant. 8: 5G NR n48 : -7.0 dBi / IFA Antenna
Type of Modulation	CP-OFDM: QPSK / 16QAM / 64QAM / 256QAM DFT-s-OFDM: PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM
IMEI Code	Conducted : 351397430007982 Radiation : 357910940014326
HW Version	DVT2
SW Version	S2ST32.48
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. 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 Antenna 3.
3. 5G NR n48 supports SA and NSA mode for SCS 15kHz/30kHz. According to the maximum power between SA and NSA mode, SA covers NSA mode and SCS 15kHz covers SCS 30kHz
4. The EN-DC mode combination could be referred to the product spec

1.4 Specification of Accessory

Specification of Accessory				
AC Adapter 1	**Brand Name**	Motorola(Salom)	**Model Name**	MC-301
AC Adapter 2	**Brand Name**	Motorola(Acbel)	**Model Name**	MC-301
Battery	**Brand Name**	Motorola(ATL)	**Model Name**	NF50
USB Cable 1	**Brand Name**	Motorola(Saibao)	**Model Name**	SC18D13215
USB Cable 2	**Brand Name**	Motorola(Cabletech)	**Model Name**	SC18D13216
USB Cable 3	**Brand Name**	Motorola(Luxshare)	**Model Name**	SC18D13217

1.5 Maximum EIRP and Emission Designator

5G NR n48 SCS 15kHz		PI/2 BPSK / QPSK		16QAM/64QAM/256QAM	
BW (MHz)	**Frequency Range (MHz)**	**Maximum EIRP(W)**	**Emission Designator (99%OBW)**	**Maximum EIRP(W)**	**Emission Designator (99%OBW)**
10	**3555.00~3694.98**	0.0439	9M28G7D	0.0333	9M29W7D
15	**3557.52~3692.49**	0.0442	14M1G7D	0.0337	14M1W7D
20	**3560.01~3690.00**	0.0449	18M9G7D	0.0352	18M9W7D
30	**3565.005~3684.99**	0.0469	28M6G7D	0.0373	28M6W7D
40	**3570.00~3679.98**	0.0497	38M6G7D	0.0394	38M5W7D
5G NR n48 SCS 30kHz		**PI/2 BPSK / QPSK**		**16QAM/64QAM/256QAM**	
BW (MHz)	**Frequency Range (MHz)**	**Maximum EIRP(W)**	**Emission Designator (99%OBW)**	**Maximum EIRP(W)**	**Emission Designator (99%OBW)**
10	**3555.00~3694.98**	0.0449	9M28G7D	0.0423	9M29W7D
15	**3557.52~3692.49**	0.0442	14M1G7D	0.0423	14M1W7D
20	**3560.01~3690.00**	0.0445	18M9G7D	0.0424	18M9W7D
30	**3565.02~3684.99**	0.0474	28M6G7D	0.0417	28M6W7D
40	**3570.00~3679.98**	0.0474	38M6G7D	0.0417	38M5W7D

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

1.6 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	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China TEL: +86-755-86379589 FAX: +86-755-86379595		
Test Site No.	**Sporton Site No.**	**FCC Designation No.**	**FCC Test Firm Registration No.**
	TH01-SZ	CN1256	421272

Test Firm	Sporton International Inc. (Shenzhen)		
Test Site Location	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City Guangdong Province China 518103 TEL: +86-755-33202398		
Test Site No.	**Sporton Site No.**	**FCC Designation No.**	**FCC Test Firm Registration No.**
	03CH01-SZ	CN1256	421272

1.7 Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH01-SZ	AUDIX	E3	6.2009-8-24

1.8 Applied Standards

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

- ANSI C63.26-2015
- ANSI / TIA-603-E
- 47 CFR Part 2, 96
- FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- FCC KDB 940660 D01 Part 96 CBRS v03
- FCC KDB 412172 D01 Determining ERP and EIRP v01r01

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

2 Test Configuration of Equipment Under Test

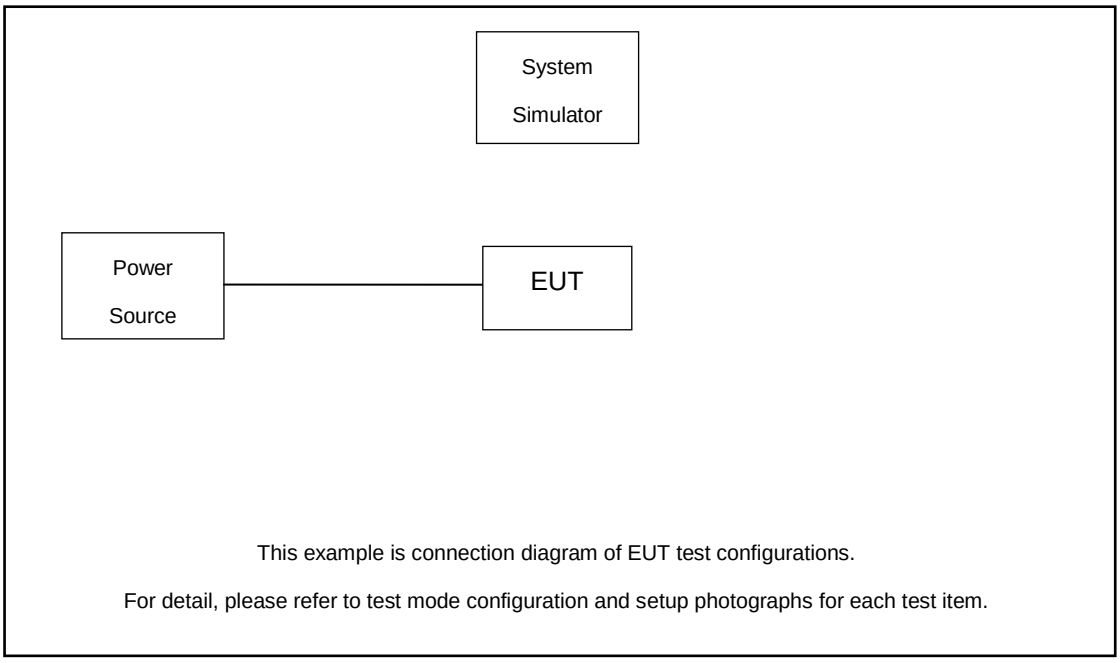
2.1 Test Mode

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

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

Test Items	Band	Bandwidth (MHz)						Modulation					RB #		Test Channel		
		5	10	15	20	30	40	PI/2 BPSK	QPSK	16QAM	64QAM	256 QAM	1	Full	L	M	H
Max. Output Power	n48	-	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
26dB and 99% Bandwidth	n48	-	v	v	v	v	v	v	v	v	v	v		v		v	
Adjacent Channel Leakage Ratio	n48	-	v		v		v	v	v				v	v	v	v	v
Conducted Band Edge	n48	-	v		v		v	v	v				v	v	v		v
Conducted Spurious Emission	n48	-	v		v		v	v	v				v	v	v	v	v
E.R.P / E.I.R.P	n48	-	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
Frequency Stability	n48	-			v				v					v		v	
Radiated Spurious Emission	n48	Worst Case													v	v	v
Remark	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. All test items are based on engineering evaluation. 5. Frequency Stability：Normal Voltage = 3.89V ； Low Voltage =3.6V；High Voltage =4.48V																

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	MT8821C	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 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 5.58 dB and 10dB attenuator.

Example :

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

= 5.58 + 10 = 15.58 (dB)

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	637667	641666	645666
	Frequency	3565.005	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

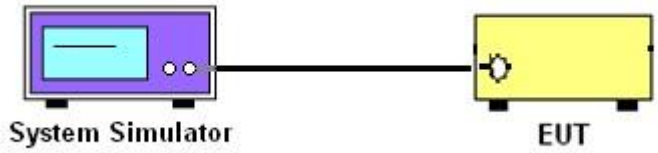
3 Conducted Test Items

3.1 Measuring Instruments

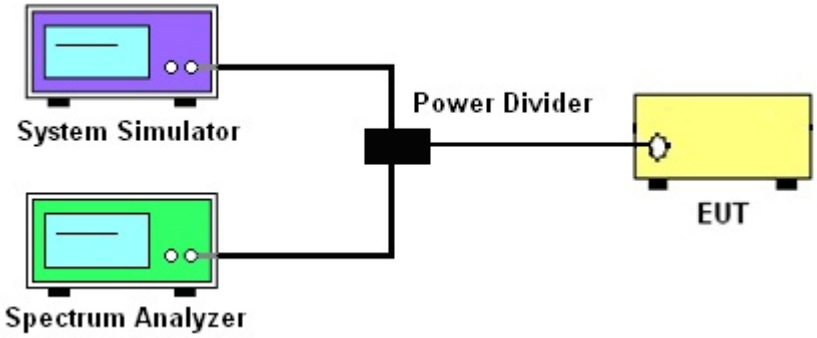
See list of measuring instruments of this test report.

3.1.1 Test Setup

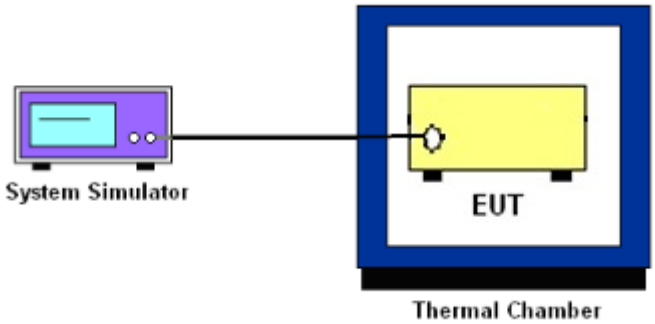
3.1.2 Conducted Output Power



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 and PSD 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 LTE 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.

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)

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

   P_T = transmitter output power in dBm

   G_T = gain of the transmitting antenna in dBi

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

3.4 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 −40dBm/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 >= 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.
8. When using the integration method, the starting frequency of the integration shall be centered at one-half of the RBW away from the band edge.

3.6 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 ±0.00025% (±2.5ppm) 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±5° 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.

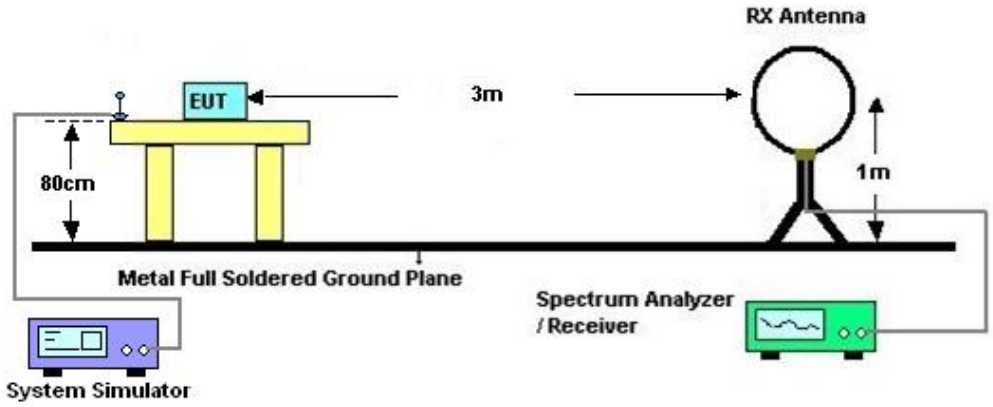
4 Radiated Test Items

4.1 Measuring Instruments

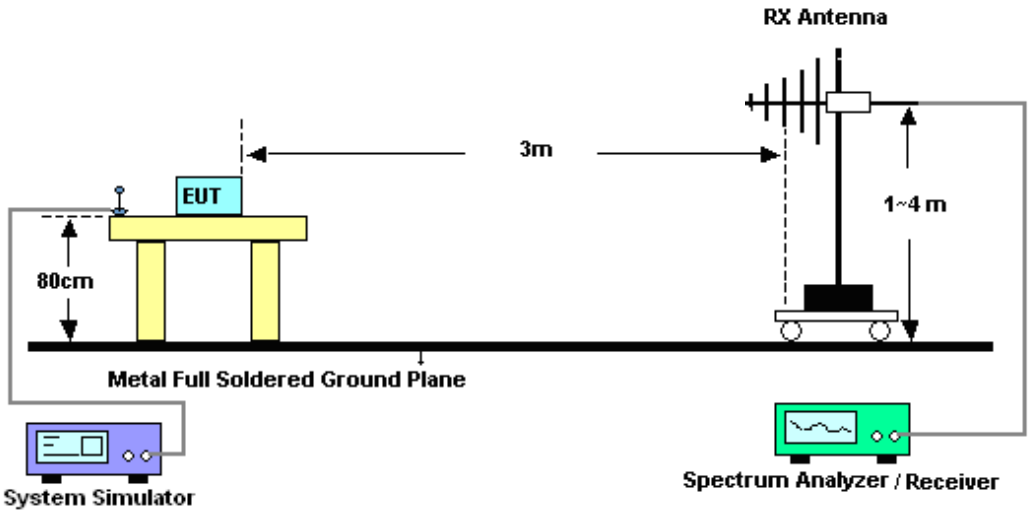
See list of measuring instruments of this test report.

4.2 Test Setup

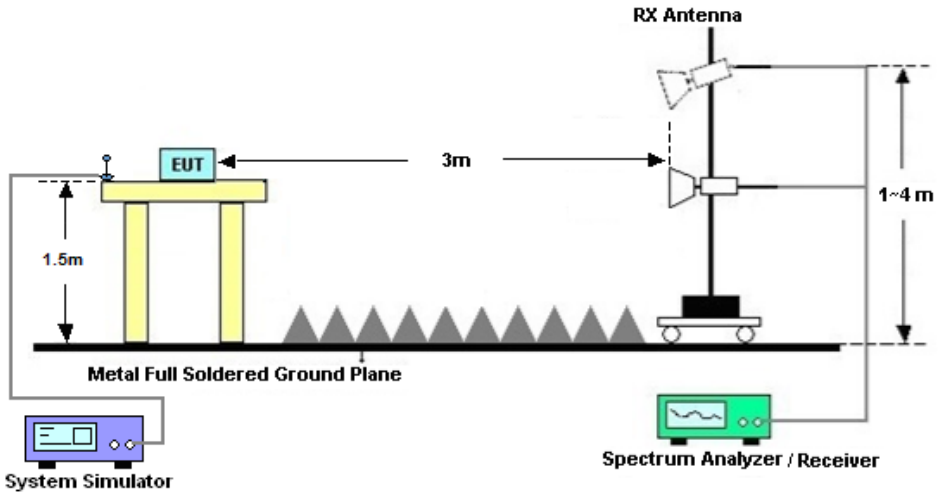
4.2.1 For radiated test below 30MHz



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 / TIA-603-E. 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.
   EIRP (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain
   ERP (dBm) = 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. 07, 2022	Apr. 29, 2022~ May 23, 2022	Apr. 06, 2023	Conducted (TH01-SZ)
DC Power Supply	TTI	PL330P	290070	Max 32V，3A	Oct. 25, 2021	Apr. 29, 2022~ May 23, 2022	Oct. 24, 2022	Conducted (TH01-SZ)
Power Divider	TOJOIN	PS-2SM-04265	60.06.020.0077	0.4GHz~26.5GHz	Dec. 25, 2021	Apr. 29, 2022~ May 23, 2022	Dec. 24, 2022	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 14, 2021	Apr. 29, 2022~ May 23, 2022	Jul. 13, 2022	Conducted (TH01-SZ)
EMI Test Receiver&SA	Agilent	N9038A	MY52260185	20Hz~26.5GHz	Dec. 27, 2021	May 11, 2022	Dec. 26, 2022	Radiation (03CH01-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jun. 22, 2020	May 11, 2022	Jun. 21, 2022	Radiation (03CH01-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270105	0.5GHz~26.5Ghz	Oct. 22, 2021	May 11, 2022	Oct. 21, 2022	Radiation (03CH01-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz-2GHz	Sep. 28, 2021	May 11, 2022	Sep. 27, 2022	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Jul. 18, 2021	May 11, 2022	Jul. 17, 2022	Radiation (03CH01-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Apr. 10, 2022	May 11, 2022	Apr. 09, 2023	Radiation (03CH01-SZ)
LF Amplifier	Burgeon	BPA-530	102209	0.01~3000Mhz	Apr. 06, 2022	May 11, 2022	Apr. 05, 2023	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	AMF-7D-00101800-30-10P-R	1943528	1GHz~18GHz	Oct. 22, 2021	May 11, 2022	Oct. 21, 2022	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 13, 2021	May 11, 2022	Jul. 12, 2022	Radiation (03CH01-SZ)
AC Power Source	Chroma	61601	616010001985	N/A	NCR	May 11, 2022	NCR	Radiation (03CH01-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	May 11, 2022	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	May 11, 2022	NCR	Radiation (03CH01-SZ)

NCR: No Calibration Required

6 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**2.48dB**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**3.53dB**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**4.02dB**

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

Appendix A. Test Results of Conducted Test

Test Engineer :	Jung Guo	**Temperature :**	22~23℃
		Relative Humidity :	40~42%

Software Version: 22.02.041801

FR1 N48 SCS 15kHz (ANT3)

Conducted Power and EIRP (ANT gain=-6.0dBi)

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power (dBm)	EIRP (dBm)	EIRP (W)
48	15	10	637000	3555	DFT-s-OFDM PI/2 BPSK	25@12	22.21	16.21	0.0418
48	15	10	637000	3555	DFT-s-OFDM PI/2 BPSK	1@1	22.21	16.21	0.0418
48	15	10	637000	3555	DFT-s-OFDM PI/2 BPSK	1@50	22.16	16.16	0.0413
48	15	10	637000	3555	DFT-s-OFDM QPSK	25@12	22.21	16.21	0.0418
48	15	10	637000	3555	DFT-s-OFDM QPSK	1@1	22.26	16.26	0.0423
48	15	10	637000	3555	DFT-s-OFDM QPSK	1@50	22.19	16.19	0.0416
48	15	10	637000	3555	DFT-s-OFDM 16 QAM	25@12	21.14	15.14	0.0327
48	15	10	637000	3555	DFT-s-OFDM 16 QAM	1@1	21.23	15.23	0.0333
48	15	10	637000	3555	DFT-s-OFDM 16 QAM	1@50	21.2	15.2	0.0331
48	15	10	637000	3555	DFT-s-OFDM 64 QAM	25@12	19.64	13.64	0.0231
48	15	10	637000	3555	DFT-s-OFDM 64 QAM	1@1	19.83	13.83	0.0242
48	15	10	637000	3555	DFT-s-OFDM 64 QAM	1@50	19.8	13.8	0.0240
48	15	10	637000	3555	DFT-s-OFDM 256 QAM	25@12	17.57	11.57	0.0144
48	15	10	637000	3555	DFT-s-OFDM 256 QAM	1@1	17.57	11.57	0.0144
48	15	10	637000	3555	DFT-s-OFDM 256 QAM	1@50	17.57	11.57	0.0144
48	15	10	637000	3555	CP-OFDM QPSK	26@13	20.67	14.67	0.0293
48	15	10	637000	3555	CP-OFDM QPSK	1@1	20.75	14.75	0.0299
48	15	10	637000	3555	CP-OFDM QPSK	1@50	20.82	14.82	0.0303
48	15	10	641666	3624.99	DFT-s-OFDM PI/2 BPSK	25@12	22.24	16.24	0.0421
48	15	10	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@1	22.12	16.12	0.0409
48	15	10	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@50	22.35	16.35	0.0432
48	15	10	641666	3624.99	DFT-s-OFDM QPSK	25@12	22.35	16.35	0.0432
48	15	10	641666	3624.99	DFT-s-OFDM QPSK	1@1	22.42	16.42	0.0439
48	15	10	641666	3624.99	DFT-s-OFDM QPSK	1@50	22.35	16.35	0.0432
48	15	10	641666	3624.99	DFT-s-OFDM 16 QAM	25@12	21.21	15.21	0.0332
48	15	10	641666	3624.99	DFT-s-OFDM 16 QAM	1@1	21.12	15.12	0.0325
48	15	10	641666	3624.99	DFT-s-OFDM 16 QAM	1@50	21.16	15.16	0.0328
48	15	10	641666	3624.99	DFT-s-OFDM	25@12	20.68	14.68	0.0294

					64 QAM				
48	15	10	641666	3624.99	DFT-s-OFDM 64 QAM	1@1	20.75	14.75	0.0299
48	15	10	641666	3624.99	DFT-s-OFDM 64 QAM	1@50	20.81	14.81	0.0303
48	15	10	641666	3624.99	DFT-s-OFDM 256 QAM	25@12	18.58	12.58	0.0181
48	15	10	641666	3624.99	DFT-s-OFDM 256 QAM	1@1	18.48	12.48	0.0177
48	15	10	641666	3624.99	DFT-s-OFDM 256 QAM	1@50	18.47	12.47	0.0177
48	15	10	641666	3624.99	CP-OFDM QPSK	26@13	21.66	15.66	0.0368
48	15	10	641666	3624.99	CP-OFDM QPSK	1@1	21.61	15.61	0.0364
48	15	10	641666	3624.99	CP-OFDM QPSK	1@50	21.85	15.85	0.0385
48	15	10	646332	3694.98	DFT-s-OFDM PI/2 BPSK	25@12	22.42	16.42	0.0439
48	15	10	646332	3694.98	DFT-s-OFDM PI/2 BPSK	1@1	22.19	16.19	0.0416
48	15	10	646332	3694.98	DFT-s-OFDM PI/2 BPSK	1@50	22.07	16.07	0.0405
48	15	10	646332	3694.98	DFT-s-OFDM QPSK	25@12	22.17	16.17	0.0414
48	15	10	646332	3694.98	DFT-s-OFDM QPSK	1@1	22.32	16.32	0.0429
48	15	10	646332	3694.98	DFT-s-OFDM QPSK	1@50	22.05	16.05	0.0403
48	15	10	646332	3694.98	DFT-s-OFDM 16 QAM	25@12	21.17	15.17	0.0329
48	15	10	646332	3694.98	DFT-s-OFDM 16 QAM	1@1	21.2	15.2	0.0331
48	15	10	646332	3694.98	DFT-s-OFDM 16 QAM	1@50	21.04	15.04	0.0319
48	15	10	646332	3694.98	DFT-s-OFDM 64 QAM	25@12	19.55	13.55	0.0226
48	15	10	646332	3694.98	DFT-s-OFDM 64 QAM	1@1	19.76	13.76	0.0238
48	15	10	646332	3694.98	DFT-s-OFDM 64 QAM	1@50	19.61	13.61	0.0230
48	15	10	646332	3694.98	DFT-s-OFDM 256 QAM	25@12	17.57	11.57	0.0144
48	15	10	646332	3694.98	DFT-s-OFDM 256 QAM	1@1	17.55	11.55	0.0143
48	15	10	646332	3694.98	DFT-s-OFDM 256 QAM	1@50	17.4	11.4	0.0138
48	15	10	646332	3694.98	CP-OFDM QPSK	26@13	20.67	14.67	0.0293
48	15	10	646332	3694.98	CP-OFDM QPSK	1@1	20.8	14.8	0.0302
48	15	10	646332	3694.98	CP-OFDM QPSK	1@50	20.57	14.57	0.0286
48	15	15	637168	3557.52	DFT-s-OFDM PI/2 BPSK	36@18	22.27	16.27	0.0424
48	15	15	637168	3557.52	DFT-s-OFDM PI/2 BPSK	1@1	22.15	16.15	0.0412
48	15	15	637168	3557.52	DFT-s-OFDM PI/2 BPSK	1@77	22.18	16.18	0.0415
48	15	15	637168	3557.52	DFT-s-OFDM QPSK	36@18	22.24	16.24	0.0421
48	15	15	637168	3557.52	DFT-s-OFDM QPSK	1@1	22.24	16.24	0.0421
48	15	15	637168	3557.52	DFT-s-OFDM QPSK	1@77	22.22	16.22	0.0419
48	15	15	637168	3557.52	DFT-s-OFDM 16 QAM	36@18	21.17	15.17	0.0329

48	15	15	637168	3557.52	DFT-s-OFDM 16 QAM	1@1	21.21	15.21	0.0332
48	15	15	637168	3557.52	DFT-s-OFDM 16 QAM	1@77	21.17	15.17	0.0329
48	15	15	637168	3557.52	DFT-s-OFDM 64 QAM	36@18	19.75	13.75	0.0237
48	15	15	637168	3557.52	DFT-s-OFDM 64 QAM	1@1	19.84	13.84	0.0242
48	15	15	637168	3557.52	DFT-s-OFDM 64 QAM	1@77	19.8	13.8	0.0240
48	15	15	637168	3557.52	DFT-s-OFDM 256 QAM	36@18	17.63	11.63	0.0146
48	15	15	637168	3557.52	DFT-s-OFDM 256 QAM	1@1	17.54	11.54	0.0143
48	15	15	637168	3557.52	DFT-s-OFDM 256 QAM	1@77	17.5	11.5	0.0141
48	15	15	637168	3557.52	CP-OFDM QPSK	39@19	20.74	14.74	0.0298
48	15	15	637168	3557.52	CP-OFDM QPSK	1@1	20.86	14.86	0.0306
48	15	15	637168	3557.52	CP-OFDM QPSK	1@77	20.75	14.75	0.0299
48	15	15	641666	3624.99	DFT-s-OFDM PI/2 BPSK	36@18	22.35	16.35	0.0432
48	15	15	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@1	22.42	16.42	0.0439
48	15	15	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@77	22.34	16.34	0.0431
48	15	15	641666	3624.99	DFT-s-OFDM QPSK	36@18	22.45	16.45	0.0442
48	15	15	641666	3624.99	DFT-s-OFDM QPSK	1@1	22.36	16.36	0.0433
48	15	15	641666	3624.99	DFT-s-OFDM QPSK	1@77	22.45	16.45	0.0442
48	15	15	641666	3624.99	DFT-s-OFDM 16 QAM	36@18	21.19	15.19	0.0330
48	15	15	641666	3624.99	DFT-s-OFDM 16 QAM	1@1	21.09	15.09	0.0323
48	15	15	641666	3624.99	DFT-s-OFDM 16 QAM	1@77	21.04	15.04	0.0319
48	15	15	641666	3624.99	DFT-s-OFDM 64 QAM	36@18	20.71	14.71	0.0296
48	15	15	641666	3624.99	DFT-s-OFDM 64 QAM	1@1	20.66	14.66	0.0292
48	15	15	641666	3624.99	DFT-s-OFDM 64 QAM	1@77	20.66	14.66	0.0292
48	15	15	641666	3624.99	DFT-s-OFDM 256 QAM	36@18	18.68	12.68	0.0185
48	15	15	641666	3624.99	DFT-s-OFDM 256 QAM	1@1	18.49	12.49	0.0177
48	15	15	641666	3624.99	DFT-s-OFDM 256 QAM	1@77	18.51	12.51	0.0178
48	15	15	641666	3624.99	CP-OFDM QPSK	39@19	21.74	15.74	0.0375
48	15	15	641666	3624.99	CP-OFDM QPSK	1@1	21.62	15.62	0.0365
48	15	15	641666	3624.99	CP-OFDM QPSK	1@77	21.76	15.76	0.0377
48	15	15	646166	3692.49	DFT-s-OFDM PI/2 BPSK	36@18	22.28	16.28	0.0425
48	15	15	646166	3692.49	DFT-s-OFDM PI/2 BPSK	1@1	22.32	16.32	0.0429
48	15	15	646166	3692.49	DFT-s-OFDM PI/2 BPSK	1@77	22.03	16.03	0.0401
48	15	15	646166	3692.49	DFT-s-OFDM QPSK	36@18	22.3	16.3	0.0427
48	15	15	646166	3692.49	DFT-s-OFDM QPSK	1@1	22.3	16.3	0.0427

48	15	15	646166	3692.49	DFT-s-OFDM QPSK	1@77	22.05	16.05	0.0403
48	15	15	646166	3692.49	DFT-s-OFDM 16 QAM	36@18	21.23	15.23	0.0333
48	15	15	646166	3692.49	DFT-s-OFDM 16 QAM	1@1	21.28	15.28	0.0337
48	15	15	646166	3692.49	DFT-s-OFDM 16 QAM	1@77	21.01	15.01	0.0317
48	15	15	646166	3692.49	DFT-s-OFDM 64 QAM	36@18	19.77	13.77	0.0238
48	15	15	646166	3692.49	DFT-s-OFDM 64 QAM	1@1	19.76	13.76	0.0238
48	15	15	646166	3692.49	DFT-s-OFDM 64 QAM	1@77	19.46	13.46	0.0222
48	15	15	646166	3692.49	DFT-s-OFDM 256 QAM	36@18	17.64	11.64	0.0146
48	15	15	646166	3692.49	DFT-s-OFDM 256 QAM	1@1	17.65	11.65	0.0146
48	15	15	646166	3692.49	DFT-s-OFDM 256 QAM	1@77	17.39	11.39	0.0138
48	15	15	646166	3692.49	CP-OFDM QPSK	39@19	20.74	14.74	0.0298
48	15	15	646166	3692.49	CP-OFDM QPSK	1@1	20.84	14.84	0.0305
48	15	15	646166	3692.49	CP-OFDM QPSK	1@77	20.57	14.57	0.0286
48	15	20	637334	3560.01	DFT-s-OFDM PI/2 BPSK	50@25	22.29	16.29	0.0426
48	15	20	637334	3560.01	DFT-s-OFDM PI/2 BPSK	1@1	22.3	16.3	0.0427
48	15	20	637334	3560.01	DFT-s-OFDM PI/2 BPSK	1@104	22.32	16.32	0.0429
48	15	20	637334	3560.01	DFT-s-OFDM QPSK	50@25	22.3	16.3	0.0427
48	15	20	637334	3560.01	DFT-s-OFDM QPSK	1@1	22.34	16.34	0.0431
48	15	20	637334	3560.01	DFT-s-OFDM QPSK	1@104	22.34	16.34	0.0431
48	15	20	637334	3560.01	DFT-s-OFDM 16 QAM	50@25	21.21	15.21	0.0332
48	15	20	637334	3560.01	DFT-s-OFDM 16 QAM	1@1	21.23	15.23	0.0333
48	15	20	637334	3560.01	DFT-s-OFDM 16 QAM	1@104	21.29	15.29	0.0338
48	15	20	637334	3560.01	DFT-s-OFDM 64 QAM	50@25	19.76	13.76	0.0238
48	15	20	637334	3560.01	DFT-s-OFDM 64 QAM	1@1	19.81	13.81	0.0240
48	15	20	637334	3560.01	DFT-s-OFDM 64 QAM	1@104	19.87	13.87	0.0244
48	15	20	637334	3560.01	DFT-s-OFDM 256 QAM	50@25	17.69	11.69	0.0148
48	15	20	637334	3560.01	DFT-s-OFDM 256 QAM	1@1	17.6	11.6	0.0145
48	15	20	637334	3560.01	DFT-s-OFDM 256 QAM	1@104	17.64	11.64	0.0146
48	15	20	637334	3560.01	CP-OFDM QPSK	53@26	20.8	14.8	0.0302
48	15	20	637334	3560.01	CP-OFDM QPSK	1@1	20.92	14.92	0.0310
48	15	20	637334	3560.01	CP-OFDM QPSK	1@104	20.93	14.93	0.0311
48	15	20	641666	3624.99	DFT-s-OFDM PI/2 BPSK	50@25	22.29	16.29	0.0426
48	15	20	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@1	22.35	16.35	0.0432
48	15	20	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@104	22.42	16.42	0.0439

48	15	20	641666	3624.99	DFT-s-OFDM QPSK	50@25	22.36	16.36	0.0433
48	15	20	641666	3624.99	DFT-s-OFDM QPSK	1@1	22.34	16.34	0.0431
48	15	20	641666	3624.99	DFT-s-OFDM QPSK	1@104	22.22	16.22	0.0419
48	15	20	641666	3624.99	DFT-s-OFDM 16 QAM	50@25	21.11	15.11	0.0324
48	15	20	641666	3624.99	DFT-s-OFDM 16 QAM	1@1	21.07	15.07	0.0321
48	15	20	641666	3624.99	DFT-s-OFDM 16 QAM	1@104	21.12	15.12	0.0325
48	15	20	641666	3624.99	DFT-s-OFDM 64 QAM	50@25	20.66	14.66	0.0292
48	15	20	641666	3624.99	DFT-s-OFDM 64 QAM	1@1	20.7	14.7	0.0295
48	15	20	641666	3624.99	DFT-s-OFDM 64 QAM	1@104	20.65	14.65	0.0292
48	15	20	641666	3624.99	DFT-s-OFDM 256 QAM	50@25	18.87	12.87	0.0194
48	15	20	641666	3624.99	DFT-s-OFDM 256 QAM	1@1	18.57	12.57	0.0181
48	15	20	641666	3624.99	DFT-s-OFDM 256 QAM	1@104	18.52	12.52	0.0179
48	15	20	641666	3624.99	CP-OFDM QPSK	53@26	21.7	15.7	0.0372
48	15	20	641666	3624.99	CP-OFDM QPSK	1@1	21.77	15.77	0.0378
48	15	20	641666	3624.99	CP-OFDM QPSK	1@104	21.84	15.84	0.0384
48	15	20	646000	3690	DFT-s-OFDM PI/2 BPSK	50@25	22.35	16.35	0.0432
48	15	20	646000	3690	DFT-s-OFDM PI/2 BPSK	1@1	22.43	16.43	0.0440
48	15	20	646000	3690	DFT-s-OFDM PI/2 BPSK	1@104	22.35	16.35	0.0432
48	15	20	646000	3690	DFT-s-OFDM QPSK	50@25	22.35	16.35	0.0432
48	15	20	646000	3690	DFT-s-OFDM QPSK	1@1	22.52	16.52	0.0449
48	15	20	646000	3690	DFT-s-OFDM QPSK	1@104	22.06	16.06	0.0404
48	15	20	646000	3690	DFT-s-OFDM 16 QAM	50@25	21.32	15.32	0.0340
48	15	20	646000	3690	DFT-s-OFDM 16 QAM	1@1	21.46	15.46	0.0352
48	15	20	646000	3690	DFT-s-OFDM 16 QAM	1@104	21.02	15.02	0.0318
48	15	20	646000	3690	DFT-s-OFDM 64 QAM	50@25	19.76	13.76	0.0238
48	15	20	646000	3690	DFT-s-OFDM 64 QAM	1@1	19.97	13.97	0.0249
48	15	20	646000	3690	DFT-s-OFDM 64 QAM	1@104	19.55	13.55	0.0226
48	15	20	646000	3690	DFT-s-OFDM 256 QAM	50@25	17.73	11.73	0.0149
48	15	20	646000	3690	DFT-s-OFDM 256 QAM	1@1	17.84	11.84	0.0153
48	15	20	646000	3690	DFT-s-OFDM 256 QAM	1@104	17.46	11.46	0.0140
48	15	20	646000	3690	CP-OFDM QPSK	53@26	20.77	14.77	0.0300
48	15	20	646000	3690	CP-OFDM QPSK	1@1	21.04	15.04	0.0319
48	15	20	646000	3690	CP-OFDM QPSK	1@104	20.61	14.61	0.0289
48	15	30	637667	3565.005	DFT-s-OFDM PI/2 BPSK	80@40	22.27	16.27	0.0424

48	15	30	637667	3565.005	DFT-s-OFDM PI/2 BPSK	1@1	22.27	16.27	0.0424
48	15	30	637667	3565.005	DFT-s-OFDM PI/2 BPSK	1@158	22.35	16.35	0.0432
48	15	30	637667	3565.005	DFT-s-OFDM QPSK	80@40	22.32	16.32	0.0429
48	15	30	637667	3565.005	DFT-s-OFDM QPSK	1@1	22.36	16.36	0.0433
48	15	30	637667	3565.005	DFT-s-OFDM QPSK	1@158	22.36	16.36	0.0433
48	15	30	637667	3565.005	DFT-s-OFDM 16 QAM	80@40	21.27	15.27	0.0337
48	15	30	637667	3565.005	DFT-s-OFDM 16 QAM	1@1	21.32	15.32	0.0340
48	15	30	637667	3565.005	DFT-s-OFDM 16 QAM	1@158	21.41	15.41	0.0348
48	15	30	637667	3565.005	DFT-s-OFDM 64 QAM	80@40	19.77	13.77	0.0238
48	15	30	637667	3565.005	DFT-s-OFDM 64 QAM	1@1	19.78	13.78	0.0239
48	15	30	637667	3565.005	DFT-s-OFDM 64 QAM	1@158	19.78	13.78	0.0239
48	15	30	637667	3565.005	DFT-s-OFDM 256 QAM	80@40	17.7	11.7	0.0148
48	15	30	637667	3565.005	DFT-s-OFDM 256 QAM	1@1	17.68	11.68	0.0147
48	15	30	637667	3565.005	DFT-s-OFDM 256 QAM	1@158	17.77	11.77	0.0150
48	15	30	637667	3565.005	CP-OFDM QPSK	80@40	20.75	14.75	0.0299
48	15	30	637667	3565.005	CP-OFDM QPSK	1@1	20.83	14.83	0.0304
48	15	30	637667	3565.005	CP-OFDM QPSK	1@158	20.94	14.94	0.0312
48	15	30	641666	3624.99	DFT-s-OFDM PI/2 BPSK	80@40	22.24	16.24	0.0421
48	15	30	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@1	22.36	16.36	0.0433
48	15	30	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@158	22.34	16.34	0.0431
48	15	30	641666	3624.99	DFT-s-OFDM QPSK	80@40	22.53	16.53	0.0450
48	15	30	641666	3624.99	DFT-s-OFDM QPSK	1@1	22.41	16.41	0.0438
48	15	30	641666	3624.99	DFT-s-OFDM QPSK	1@158	22.35	16.35	0.0432
48	15	30	641666	3624.99	DFT-s-OFDM 16 QAM	80@40	21.15	15.15	0.0327
48	15	30	641666	3624.99	DFT-s-OFDM 16 QAM	1@1	21.08	15.08	0.0322
48	15	30	641666	3624.99	DFT-s-OFDM 16 QAM	1@158	21.1	15.1	0.0324
48	15	30	641666	3624.99	DFT-s-OFDM 64 QAM	80@40	20.7	14.7	0.0295
48	15	30	641666	3624.99	DFT-s-OFDM 64 QAM	1@1	20.62	14.62	0.0290
48	15	30	641666	3624.99	DFT-s-OFDM 64 QAM	1@158	20.6	14.6	0.0288
48	15	30	641666	3624.99	DFT-s-OFDM 256 QAM	80@40	18.58	12.58	0.0181
48	15	30	641666	3624.99	DFT-s-OFDM 256 QAM	1@1	18.44	12.44	0.0175
48	15	30	641666	3624.99	DFT-s-OFDM 256 QAM	1@158	18.49	12.49	0.0177
48	15	30	641666	3624.99	CP-OFDM QPSK	80@40	21.62	15.62	0.0365
48	15	30	641666	3624.99	CP-OFDM QPSK	1@1	21.59	15.59	0.0362

48	15	30	641666	3624.99	CP-OFDM QPSK	1@158	21.77	15.77	0.0378
48	15	30	645666	3684.99	DFT-s-OFDM PI/2 BPSK	80@40	22.37	16.37	0.0434
48	15	30	645666	3684.99	DFT-s-OFDM PI/2 BPSK	1@1	22.66	16.66	0.0463
48	15	30	645666	3684.99	DFT-s-OFDM PI/2 BPSK	1@158	22.02	16.02	0.0400
48	15	30	645666	3684.99	DFT-s-OFDM QPSK	80@40	22.4	16.4	0.0437
48	15	30	645666	3684.99	DFT-s-OFDM QPSK	1@1	22.71	16.71	0.0469
48	15	30	645666	3684.99	DFT-s-OFDM QPSK	1@158	22.11	16.11	0.0408
48	15	30	645666	3684.99	DFT-s-OFDM 16 QAM	80@40	21.4	15.4	0.0347
48	15	30	645666	3684.99	DFT-s-OFDM 16 QAM	1@1	21.72	15.72	0.0373
48	15	30	645666	3684.99	DFT-s-OFDM 16 QAM	1@158	21.13	15.13	0.0326
48	15	30	645666	3684.99	DFT-s-OFDM 64 QAM	80@40	19.87	13.87	0.0244
48	15	30	645666	3684.99	DFT-s-OFDM 64 QAM	1@1	20.23	14.23	0.0265
48	15	30	645666	3684.99	DFT-s-OFDM 64 QAM	1@158	19.55	13.55	0.0226
48	15	30	645666	3684.99	DFT-s-OFDM 256 QAM	80@40	17.85	11.85	0.0153
48	15	30	645666	3684.99	DFT-s-OFDM 256 QAM	1@1	18.11	12.11	0.0163
48	15	30	645666	3684.99	DFT-s-OFDM 256 QAM	1@158	17.47	11.47	0.0140
48	15	30	645666	3684.99	CP-OFDM QPSK	80@40	20.9	14.9	0.0309
48	15	30	645666	3684.99	CP-OFDM QPSK	1@1	21.21	15.21	0.0332
48	15	30	645666	3684.99	CP-OFDM QPSK	1@158	20.7	14.7	0.0295
48	15	40	638000	3570	DFT-s-OFDM PI/2 BPSK	108@54	22.35	16.35	0.0432
48	15	40	638000	3570	DFT-s-OFDM PI/2 BPSK	1@1	22.33	16.33	0.0430
48	15	40	638000	3570	DFT-s-OFDM PI/2 BPSK	1@214	22.62	16.62	0.0459
48	15	40	638000	3570	DFT-s-OFDM QPSK	108@54	22.36	16.36	0.0433
48	15	40	638000	3570	DFT-s-OFDM QPSK	1@1	22.4	16.4	0.0437
48	15	40	638000	3570	DFT-s-OFDM QPSK	1@214	22.61	16.61	0.0458
48	15	40	638000	3570	DFT-s-OFDM 16 QAM	108@54	21.37	15.37	0.0344
48	15	40	638000	3570	DFT-s-OFDM 16 QAM	1@1	21.28	15.28	0.0337
48	15	40	638000	3570	DFT-s-OFDM 16 QAM	1@214	21.58	15.58	0.0361
48	15	40	638000	3570	DFT-s-OFDM 64 QAM	108@54	19.78	13.78	0.0239
48	15	40	638000	3570	DFT-s-OFDM 64 QAM	1@1	19.88	13.88	0.0244
48	15	40	638000	3570	DFT-s-OFDM 64 QAM	1@214	20.2	14.2	0.0263
48	15	40	638000	3570	DFT-s-OFDM 256 QAM	108@54	17.77	11.77	0.0150
48	15	40	638000	3570	DFT-s-OFDM 256 QAM	1@1	17.64	11.64	0.0146
48	15	40	638000	3570	DFT-s-OFDM 256 QAM	1@214	17.99	11.99	0.0158

48	15	40	638000	3570	CP-OFDM QPSK	108@54	20.81	14.81	0.0303
48	15	40	638000	3570	CP-OFDM QPSK	1@1	20.8	14.8	0.0302
48	15	40	638000	3570	CP-OFDM QPSK	1@214	21.2	15.2	0.0331
48	15	40	641666	3624.99	DFT-s-OFDM PI/2 BPSK	108@54	22.32	16.32	0.0429
48	15	40	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@1	22.96	16.96	0.0497
48	15	40	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@214	22.12	16.12	0.0409
48	15	40	641666	3624.99	DFT-s-OFDM QPSK	108@54	22.35	16.35	0.0432
48	15	40	641666	3624.99	DFT-s-OFDM QPSK	1@1	22.35	16.35	0.0432
48	15	40	641666	3624.99	DFT-s-OFDM QPSK	1@214	22.36	16.36	0.0433
48	15	40	641666	3624.99	DFT-s-OFDM 16 QAM	108@54	21.11	15.11	0.0324
48	15	40	641666	3624.99	DFT-s-OFDM 16 QAM	1@1	21.01	15.01	0.0317
48	15	40	641666	3624.99	DFT-s-OFDM 16 QAM	1@214	21.02	15.02	0.0318
48	15	40	641666	3624.99	DFT-s-OFDM 64 QAM	108@54	20.57	14.57	0.0286
48	15	40	641666	3624.99	DFT-s-OFDM 64 QAM	1@1	20.48	14.48	0.0281
48	15	40	641666	3624.99	DFT-s-OFDM 64 QAM	1@214	20.45	14.45	0.0279
48	15	40	641666	3624.99	DFT-s-OFDM 256 QAM	108@54	18.54	12.54	0.0179
48	15	40	641666	3624.99	DFT-s-OFDM 256 QAM	1@1	18.44	12.44	0.0175
48	15	40	641666	3624.99	DFT-s-OFDM 256 QAM	1@214	18.54	12.54	0.0179
48	15	40	641666	3624.99	CP-OFDM QPSK	108@54	21.59	15.59	0.0362
48	15	40	641666	3624.99	CP-OFDM QPSK	1@1	21.61	15.61	0.0364
48	15	40	641666	3624.99	CP-OFDM QPSK	1@214	20.52	14.52	0.0283
48	15	40	645332	3679.98	DFT-s-OFDM PI/2 BPSK	108@54	22.5	16.5	0.0447
48	15	40	645332	3679.98	DFT-s-OFDM PI/2 BPSK	1@1	22.92	16.92	0.0492
48	15	40	645332	3679.98	DFT-s-OFDM PI/2 BPSK	1@214	22.01	16.01	0.0399
48	15	40	645332	3679.98	DFT-s-OFDM QPSK	108@54	22.54	16.54	0.0451
48	15	40	645332	3679.98	DFT-s-OFDM QPSK	1@1	22.88	16.88	0.0488
48	15	40	645332	3679.98	DFT-s-OFDM QPSK	1@214	22.04	16.04	0.0402
48	15	40	645332	3679.98	DFT-s-OFDM 16 QAM	108@54	21.55	15.55	0.0359
48	15	40	645332	3679.98	DFT-s-OFDM 16 QAM	1@1	21.95	15.95	0.0394
48	15	40	645332	3679.98	DFT-s-OFDM 16 QAM	1@214	21.09	15.09	0.0323
48	15	40	645332	3679.98	DFT-s-OFDM 64 QAM	108@54	20	14	0.0251
48	15	40	645332	3679.98	DFT-s-OFDM 64 QAM	1@1	20.38	14.38	0.0274
48	15	40	645332	3679.98	DFT-s-OFDM 64 QAM	1@214	19.53	13.53	0.0225
48	15	40	645332	3679.98	DFT-s-OFDM 256 QAM	108@54	17.96	11.96	0.0157

48	15	40	645332	3679.98	DFT-s-OFDM 256 QAM	1@1	18.34	12.34	0.0171
48	15	40	645332	3679.98	DFT-s-OFDM 256 QAM	1@214	17.52	11.52	0.0142
48	15	40	645332	3679.98	CP-OFDM QPSK	108@54	20.42	14.42	0.0277
48	15	40	645332	3679.98	CP-OFDM QPSK	1@1	21.54	15.54	0.0358
48	15	40	645332	3679.98	CP-OFDM QPSK	1@214	20.36	14.36	0.0273

Frequency Stability

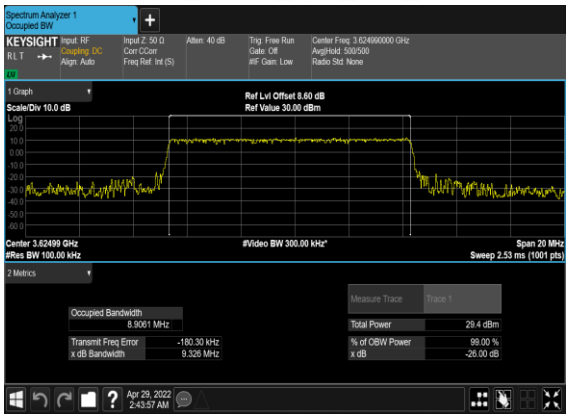
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
48	15	20	641666	3624.99	DFT-s-OFDM QPSK	100@0	0.00587	**PASS**	NV
48	15	20	641666	3624.99	DFT-s-OFDM QPSK	100@0	0.00585	**PASS**	LV
48	15	20	641666	3624.99	DFT-s-OFDM QPSK	100@0	0.00408	**PASS**	HV
48	15	20	641666	3624.99	DFT-s-OFDM QPSK	100@0	0.00391	**PASS**	-30℃
48	15	20	641666	3624.99	DFT-s-OFDM QPSK	100@0	0.00219	**PASS**	-20℃
48	15	20	641666	3624.99	DFT-s-OFDM QPSK	100@0	0.00598	**PASS**	-10℃
48	15	20	641666	3624.99	DFT-s-OFDM QPSK	100@0	0.00281	**PASS**	0℃
48	15	20	641666	3624.99	DFT-s-OFDM QPSK	100@0	0.00265	**PASS**	10℃
48	15	20	641666	3624.99	DFT-s-OFDM QPSK	100@0	0.00696	**PASS**	20℃
48	15	20	641666	3624.99	DFT-s-OFDM QPSK	100@0	0.00666	**PASS**	30℃
48	15	20	641666	3624.99	DFT-s-OFDM QPSK	100@0	0.00608	**PASS**	40℃
48	15	20	641666	3624.99	DFT-s-OFDM QPSK	100@0	0.00593	**PASS**	50℃

Occupied Bandwidth

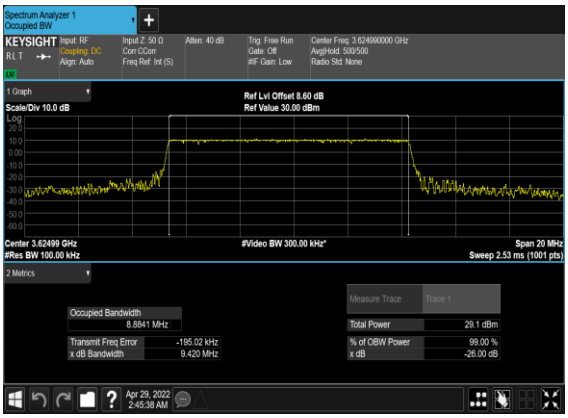
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB OBW (MHz)
48	15	10	641666	3624.99	DFT-s-OFDM PI/2 BPSK	50@0	8.9061	9.326
48	15	10	641666	3624.99	DFT-s-OFDM QPSK	50@0	8.8841	9.42
48	15	10	641666	3624.99	CP-OFDM QPSK	52@0	9.2827	9.681
48	15	10	641666	3624.99	CP-OFDM 16 QAM	52@0	9.2787	9.928
48	15	10	641666	3624.99	CP-OFDM 64 QAM	52@0	9.2934	9.688
48	15	10	641666	3624.99	CP-OFDM 256 QAM	52@0	9.2866	9.791
48	15	15	641666	3624.99	DFT-s-OFDM PI/2 BPSK	75@0	13.377	13.98
48	15	15	641666	3624.99	DFT-s-OFDM QPSK	75@0	13.382	14.11
48	15	15	641666	3624.99	CP-OFDM QPSK	79@0	14.08	14.97
48	15	15	641666	3624.99	CP-OFDM 16 QAM	79@0	14.093	14.6
48	15	15	641666	3624.99	CP-OFDM 64 QAM	79@0	14.101	14.9
48	15	15	641666	3624.99	CP-OFDM 256 QAM	79@0	14.062	14.76
48	15	20	641666	3624.99	DFT-s-OFDM PI/2 BPSK	100@0	17.87	18.6
48	15	20	641666	3624.99	DFT-s-OFDM QPSK	100@0	17.876	18.59
48	15	20	641666	3624.99	CP-OFDM QPSK	106@0	18.874	19.71
48	15	20	641666	3624.99	CP-OFDM 16 QAM	106@0	18.875	19.69
48	15	20	641666	3624.99	CP-OFDM 64 QAM	106@0	18.901	19.63
48	15	20	641666	3624.99	CP-OFDM 256 QAM	106@0	18.895	19.68
48	15	30	641666	3624.99	DFT-s-OFDM PI/2 BPSK	160@0	28.593	29.71
48	15	30	641666	3624.99	DFT-s-OFDM QPSK	160@0	28.599	29.96
48	15	30	641666	3624.99	CP-OFDM QPSK	160@0	28.531	29.64
48	15	30	641666	3624.99	CP-OFDM 16 QAM	160@0	28.522	29.49
48	15	30	641666	3624.99	CP-OFDM 64 QAM	160@0	28.565	29.53
48	15	30	641666	3624.99	CP-OFDM 256 QAM	160@0	28.556	30.44
48	15	40	641666	3624.99	DFT-s-OFDM PI/2 BPSK	216@0	38.602	40.13

48	15	40	641666	3624.99	DFT-s-OFDM QPSK	216@0	38.565	40.2
48	15	40	641666	3624.99	CP-OFDM QPSK	216@0	38.565	40.1
48	15	40	641666	3624.99	CP-OFDM 16 QAM	216@0	38.501	39.93
48	15	40	641666	3624.99	CP-OFDM 64 QAM	216@0	38.52	40.06
48	15	40	641666	3624.99	CP-OFDM 256 QAM	216@0	38.516	39.91

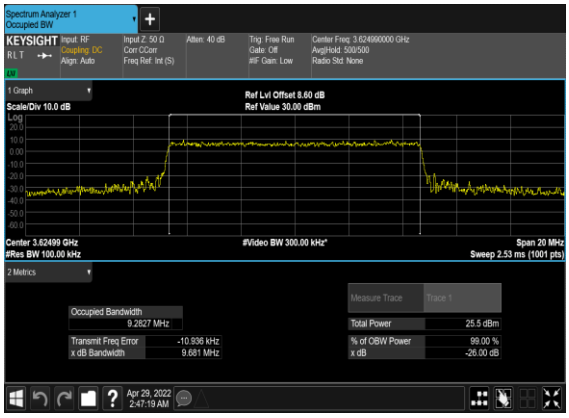
N48(10M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



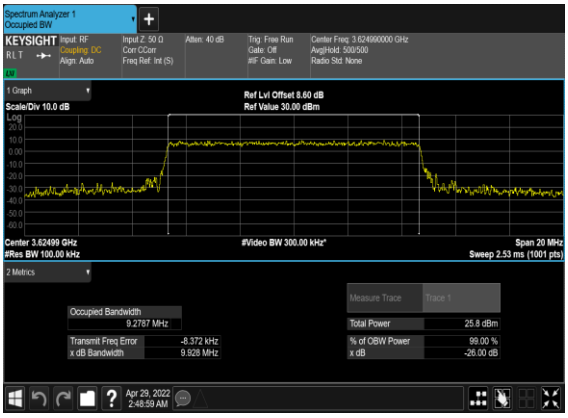
N48(10M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



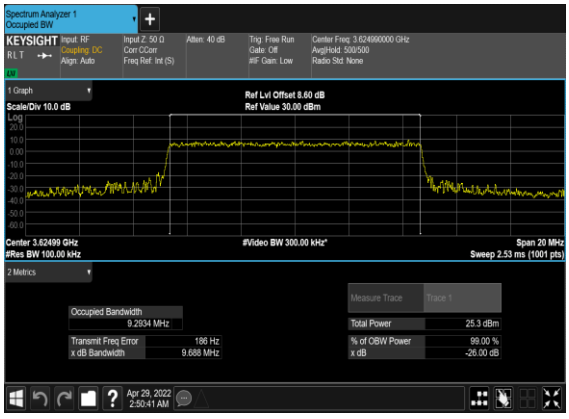
N48(10M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



N48(10M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH

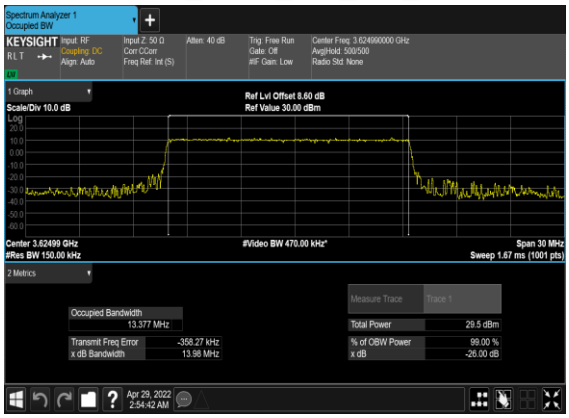


N48(10M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



N48(10M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

N48(15M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



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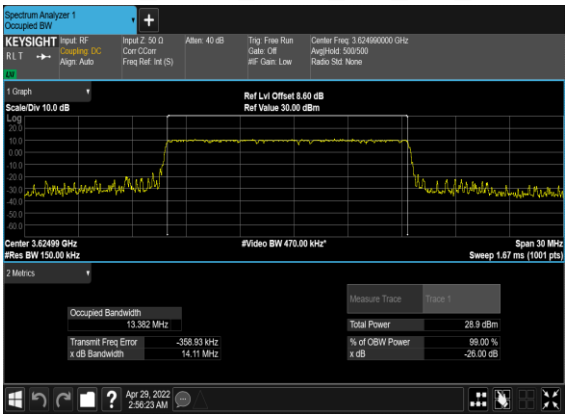
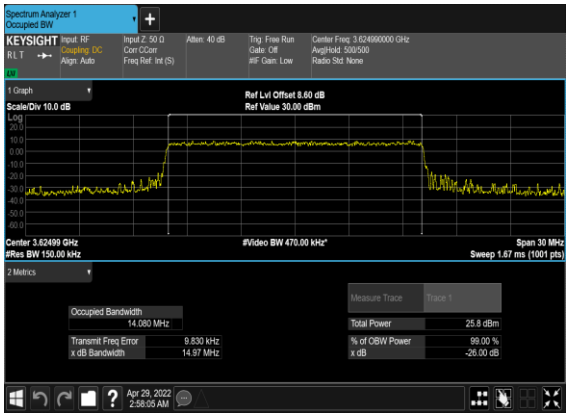
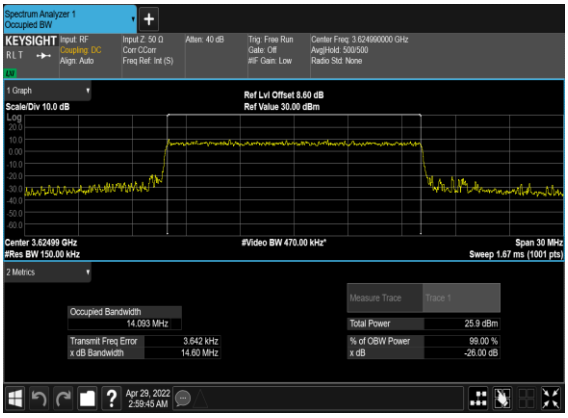


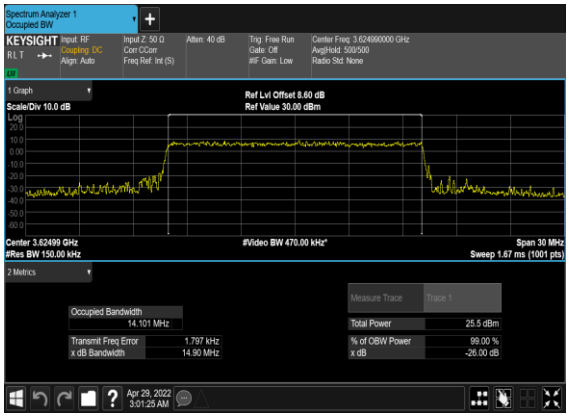
N48(15M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



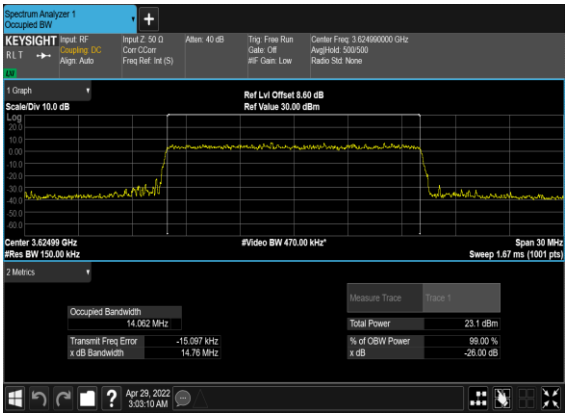
N48(15M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



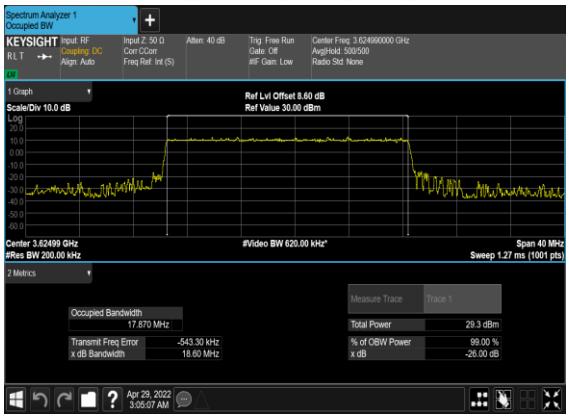
N48(15M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



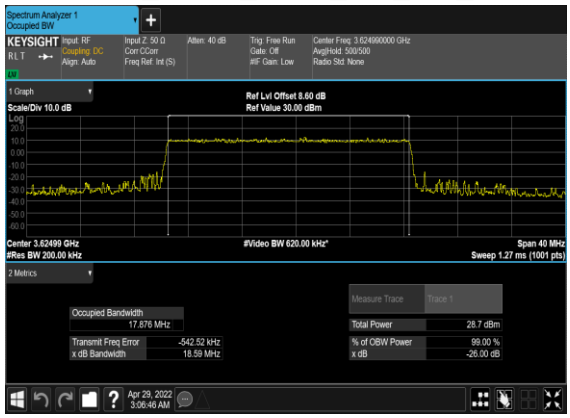
N48(15M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



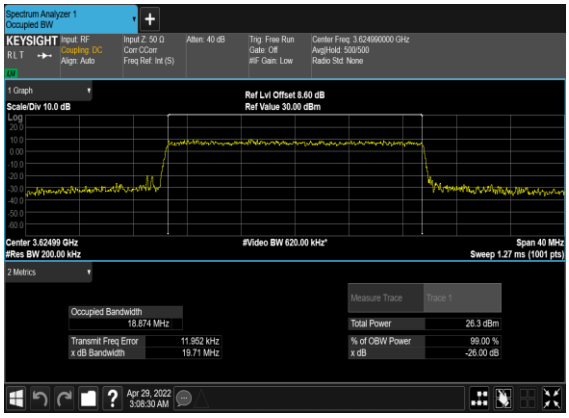
N48(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



N48(20M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH

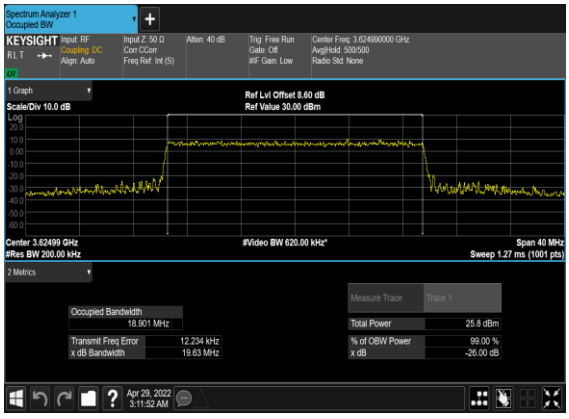


N48(20M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

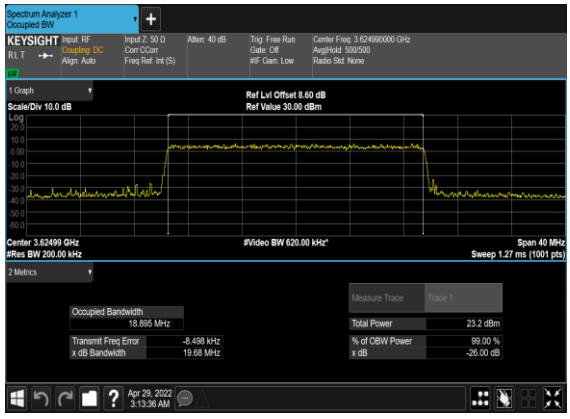


N48(20M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH

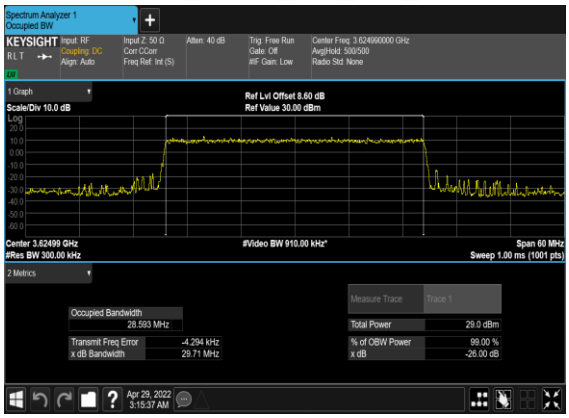
N48(20M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



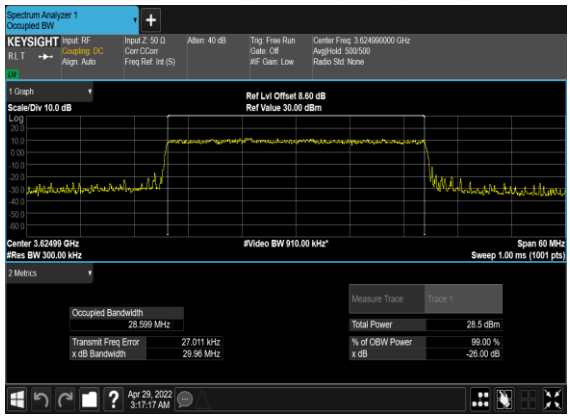
N48(20M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



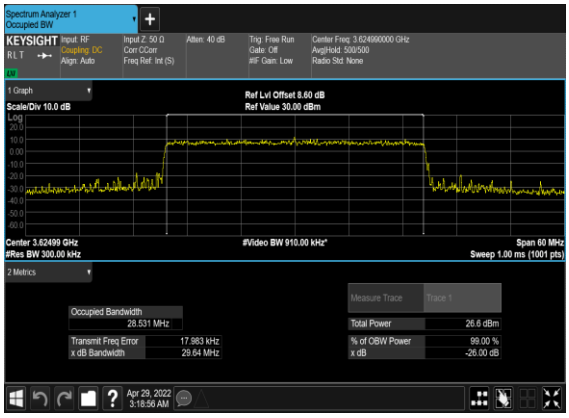
N48(30M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



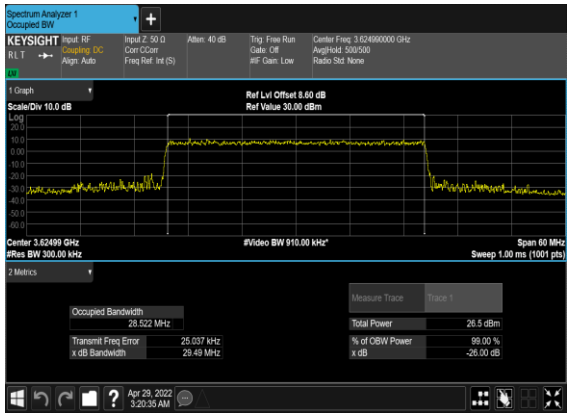
N48(30M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



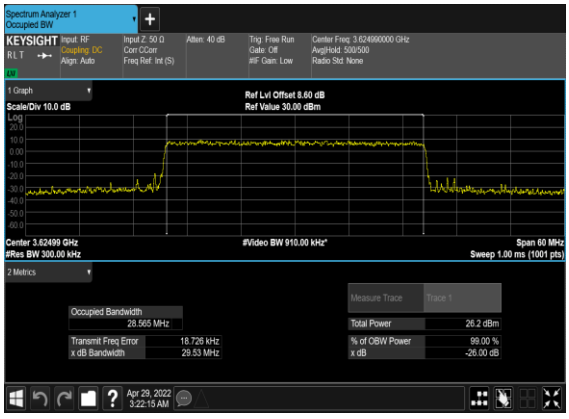
N48(30M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



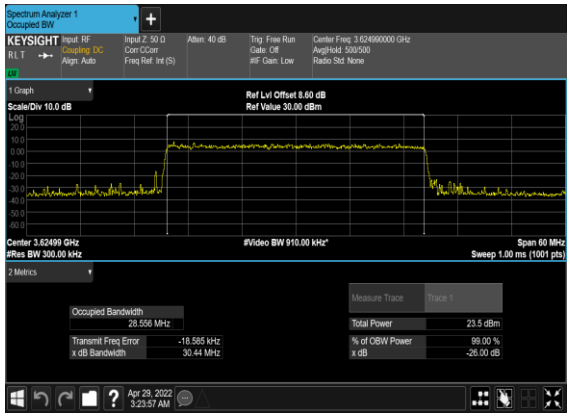
N48(30M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



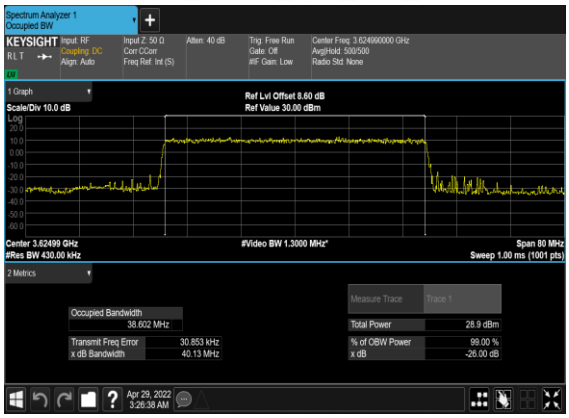
N48(30M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



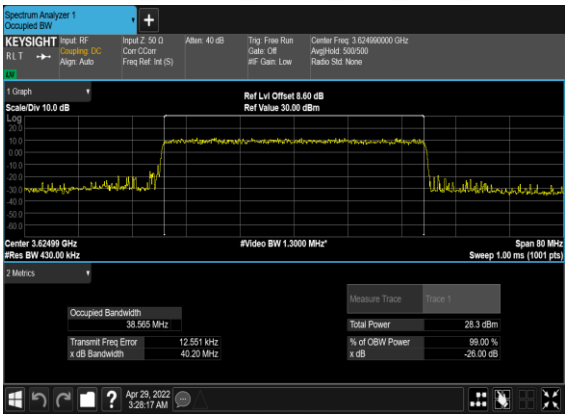
N48(30M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



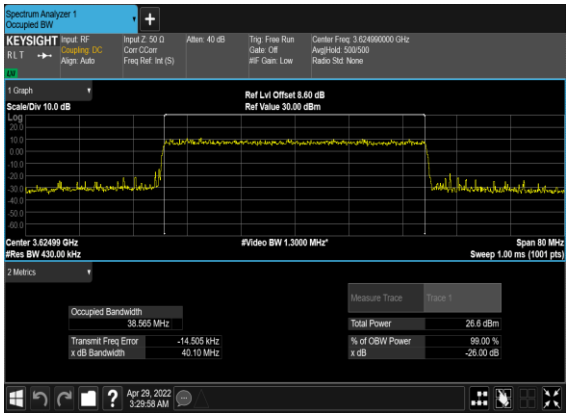
N48(40M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



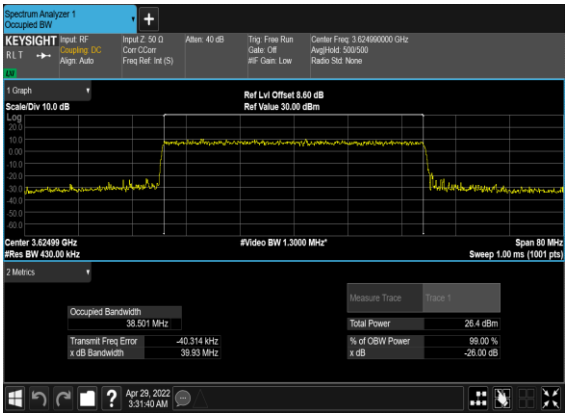
N48(40M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



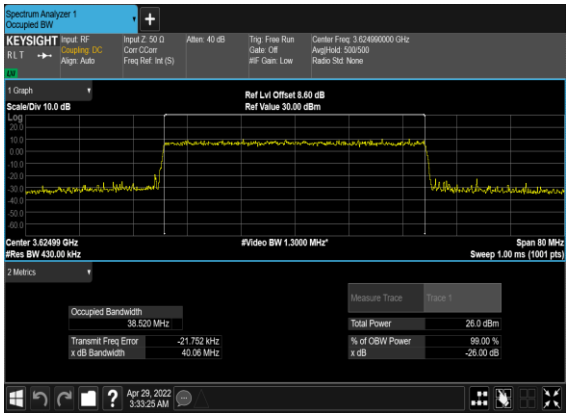
N48(40M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



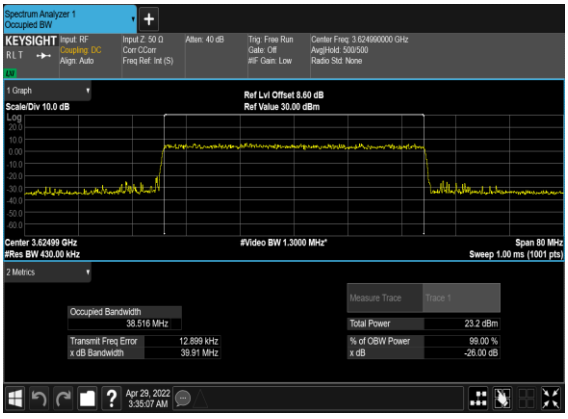
N48(40M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



N48(40M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



N48(40M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



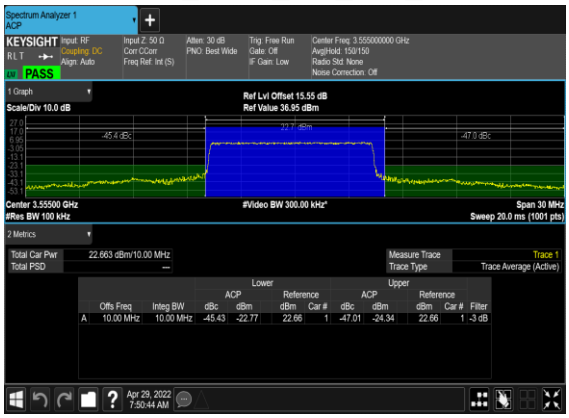
Adjacent Channel Leakage Ratio

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Lower Margin	Upper Margin	Result	Verdict
48	15	10	637000	3555.0	DFT-s-OFDM PI/2 BPSK	50@0	-15.43	-17.01	**see graph**	PASS
48	15	10	637000	3555.0	DFT-s-OFDM PI/2 BPSK	1@0	-10.21	-23.28	**see graph**	PASS
48	15	10	637000	3555.0	DFT-s-OFDM PI/2 BPSK	1@51	-22.84	-11.21	**see graph**	PASS
48	15	10	637000	3555.0	DFT-s-OFDM QPSK	50@0	-14.21	-15.67	**see graph**	PASS
48	15	10	637000	3555.0	DFT-s-OFDM QPSK	1@0	-10.5	-23.12	**see graph**	PASS
48	15	10	637000	3555.0	DFT-s-OFDM QPSK	1@51	-23.15	-11.65	**see graph**	PASS
48	15	10	641666	3624.99	DFT-s-OFDM PI/2 BPSK	50@0	-14.07	-16.21	**see graph**	PASS
48	15	10	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@0	-10.48	-21.6	**see graph**	PASS
48	15	10	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@51	-19.58	-9.53	**see graph**	PASS
48	15	10	641666	3624.99	DFT-s-OFDM QPSK	50@0	-12.88	-14.71	**see graph**	PASS
48	15	10	641666	3624.99	DFT-s-OFDM QPSK	1@0	-10.35	-19.56	**see graph**	PASS
48	15	10	641666	3624.99	DFT-s-OFDM QPSK	1@51	-19.75	-9.61	**see graph**	PASS
48	15	10	646332	3694.98	DFT-s-OFDM PI/2 BPSK	50@0	-11.73	-13.25	**see graph**	PASS
48	15	10	646332	3694.98	DFT-s-OFDM PI/2 BPSK	1@0	-10.68	-20.68	**see graph**	PASS
48	15	10	646332	3694.98	DFT-s-OFDM PI/2 BPSK	1@51	-19.47	-9.03	**see graph**	PASS
48	15	10	646332	3694.98	DFT-s-OFDM QPSK	50@0	-10.82	-11.96	**see graph**	PASS
48	15	10	646332	3694.98	DFT-s-OFDM QPSK	1@0	-11.18	-20.75	**see graph**	PASS
48	15	10	646332	3694.98	DFT-s-OFDM QPSK	1@51	-20.29	-11.22	**see graph**	PASS
48	15	20	637334	3560.01	DFT-s-OFDM PI/2 BPSK	100@0	-16.17	-17.49	**see graph**	PASS
48	15	20	637334	3560.01	DFT-s-OFDM PI/2 BPSK	1@0	-11.29	-23.07	**see graph**	PASS
48	15	20	637334	3560.01	DFT-s-OFDM PI/2 BPSK	1@105	-21.26	-11.94	**see graph**	PASS
48	15	20	637334	3560.01	DFT-s-OFDM QPSK	100@0	-14.45	-16.5	**see graph**	PASS

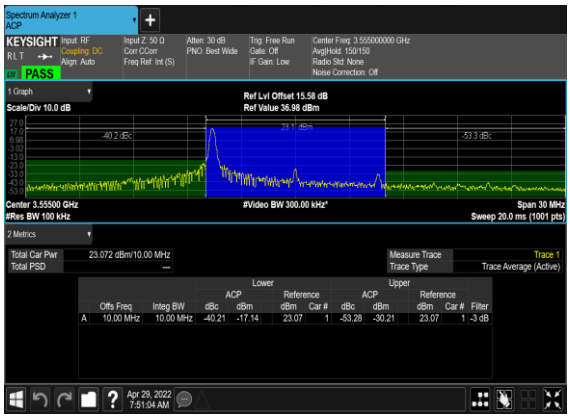
48	15	20	637334	3560.01	DFT-s-OFDM QPSK	1@0	-12.13	-22.03	**see graph**	PASS
48	15	20	637334	3560.01	DFT-s-OFDM QPSK	1@105	-22.7	-12.45	**see graph**	PASS
48	15	20	641666	3624.99	DFT-s-OFDM PI/2 BPSK	100@0	-14.61	-16.49	**see graph**	PASS
48	15	20	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@0	-11.13	-19.81	**see graph**	PASS
48	15	20	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@105	-17.83	-9.09	**see graph**	PASS
48	15	20	641666	3624.99	DFT-s-OFDM QPSK	100@0	-12.55	-14.8	**see graph**	PASS
48	15	20	641666	3624.99	DFT-s-OFDM QPSK	1@0	-11.21	-18.8	**see graph**	PASS
48	15	20	641666	3624.99	DFT-s-OFDM QPSK	1@105	-20.05	-12.64	**see graph**	PASS
48	15	20	646000	3690.0	DFT-s-OFDM PI/2 BPSK	100@0	-12.12	-14.06	**see graph**	PASS
48	15	20	646000	3690.0	DFT-s-OFDM PI/2 BPSK	1@0	-11.65	-18.45	**see graph**	PASS
48	15	20	646000	3690.0	DFT-s-OFDM PI/2 BPSK	1@105	-19.24	-11.14	**see graph**	PASS
48	15	20	646000	3690.0	DFT-s-OFDM QPSK	100@0	-10.6	-12.39	**see graph**	PASS
48	15	20	646000	3690.0	DFT-s-OFDM QPSK	1@0	-10.67	-18.45	**see graph**	PASS
48	15	20	646000	3690.0	DFT-s-OFDM QPSK	1@105	-18.28	-11.71	**see graph**	PASS
48	15	40	638000	3570.0	DFT-s-OFDM PI/2 BPSK	216@0	-13.83	-15.0	**see graph**	PASS
48	15	40	638000	3570.0	DFT-s-OFDM PI/2 BPSK	1@0	-10.84	-16.68	**see graph**	PASS
48	15	40	638000	3570.0	DFT-s-OFDM PI/2 BPSK	1@215	-17.71	-10.57	**see graph**	PASS
48	15	40	638000	3570.0	DFT-s-OFDM QPSK	216@0	-12.4	-14.15	**see graph**	PASS
48	15	40	638000	3570.0	DFT-s-OFDM QPSK	1@0	-8.71	-15.61	**see graph**	PASS
48	15	40	638000	3570.0	DFT-s-OFDM QPSK	1@215	-16.73	-10.68	**see graph**	PASS
48	15	40	641666	3624.99	DFT-s-OFDM PI/2 BPSK	216@0	-12.69	-14.42	**see graph**	PASS
48	15	40	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@0	-9.76	-16.08	**see graph**	PASS
48	15	40	641666	3624.99	DFT-s-OFDM PI/2 BPSK	1@215	-18.27	-11.69	**see graph**	PASS
48	15	40	641666	3624.99	DFT-s-OFDM QPSK	216@0	-11.3	-13.26	**see graph**	PASS

48	15	40	641666	3624.99	DFT-s-OFDM QPSK	1@0	-10.7	-16.42	**see graph**	PASS
48	15	40	641666	3624.99	DFT-s-OFDM QPSK	1@215	-17.44	-11.03	**see graph**	PASS
48	15	40	645332	3679.98	DFT-s-OFDM PI/2 BPSK	216@0	-10.87	-12.81	**see graph**	PASS
48	15	40	645332	3679.98	DFT-s-OFDM PI/2 BPSK	1@0	-8.08	-16.2	**see graph**	PASS
48	15	40	645332	3679.98	DFT-s-OFDM PI/2 BPSK	1@215	-16.2	-10.39	**see graph**	PASS
48	15	40	645332	3679.98	DFT-s-OFDM QPSK	216@0	-9.71	-11.82	**see graph**	PASS
48	15	40	645332	3679.98	DFT-s-OFDM QPSK	1@0	-10.33	-15.58	**see graph**	PASS
48	15	40	645332	3679.98	DFT-s-OFDM QPSK	1@215	-16.3	-10.21	**see graph**	PASS

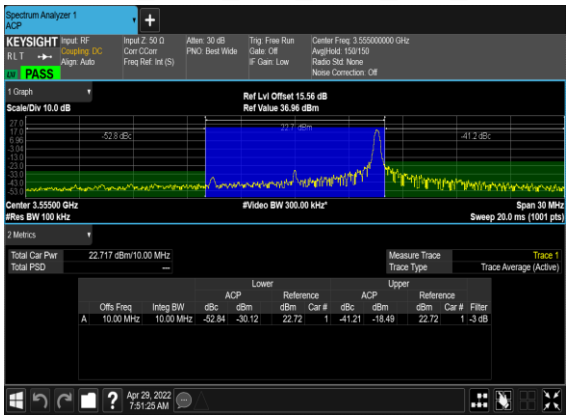
N48(10M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Low_CH



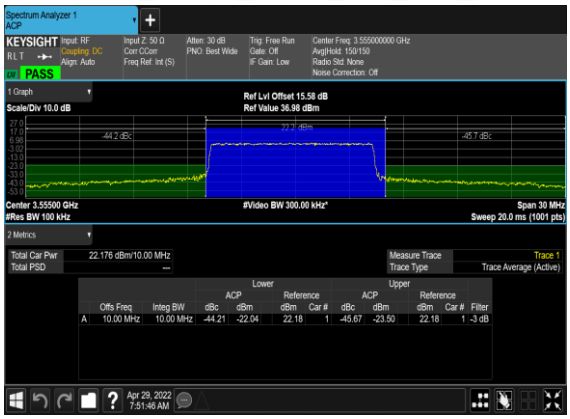
N48(10M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_Low_CH



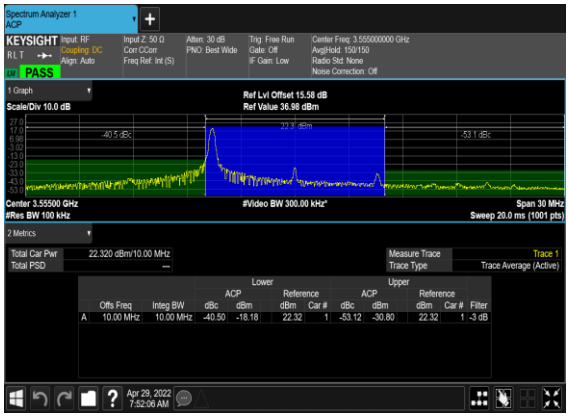
N48(10M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Right_Low_CH



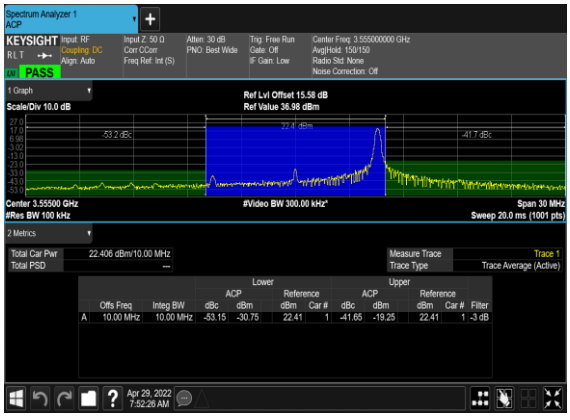
N48(10M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



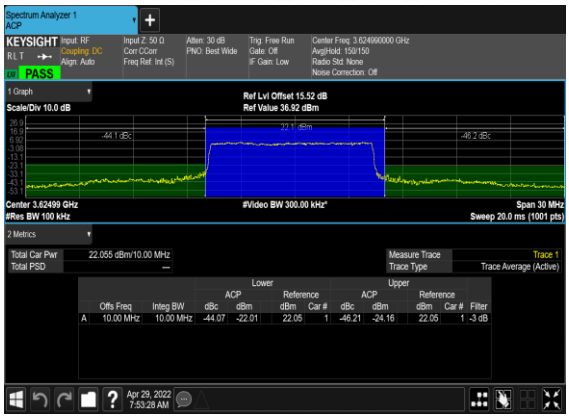
N48(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



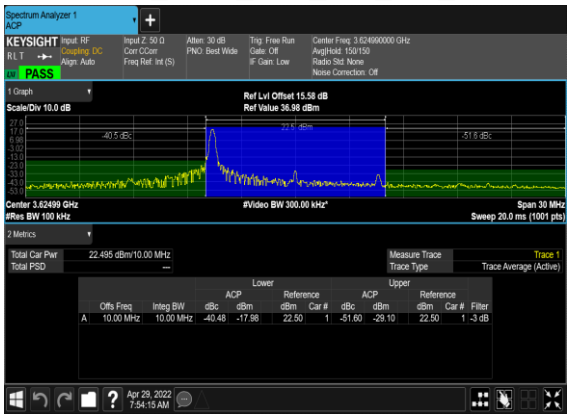
N48(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_Low_CH



N48(10M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH

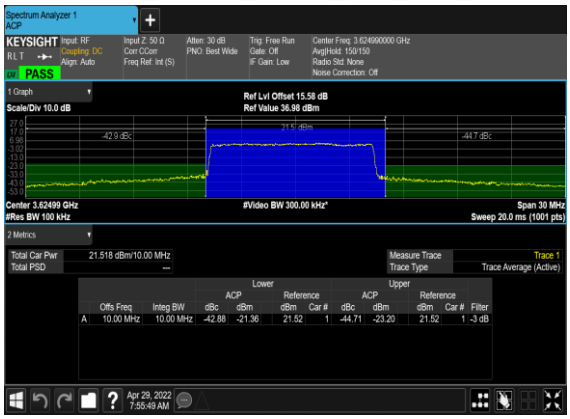


N48(10M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_Mid_CH

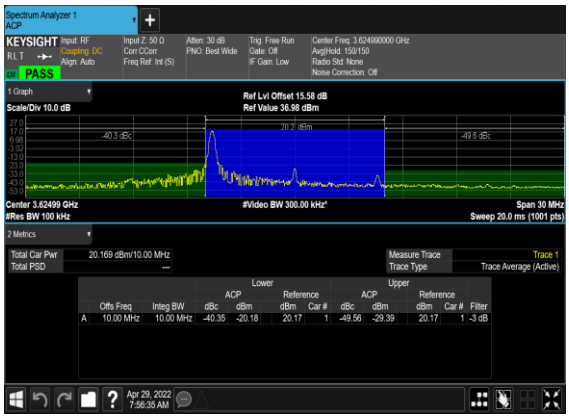


N48(10M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Right_Mid_CH

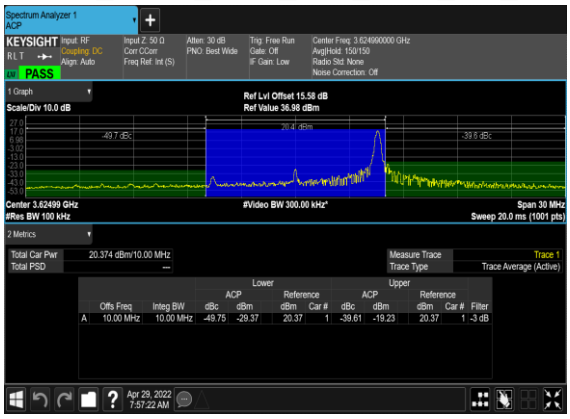
N48(10M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



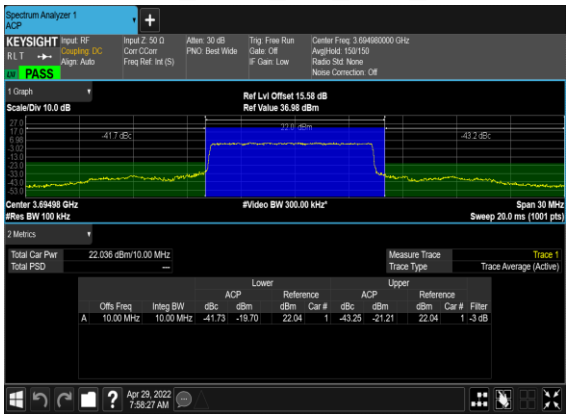
N48(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



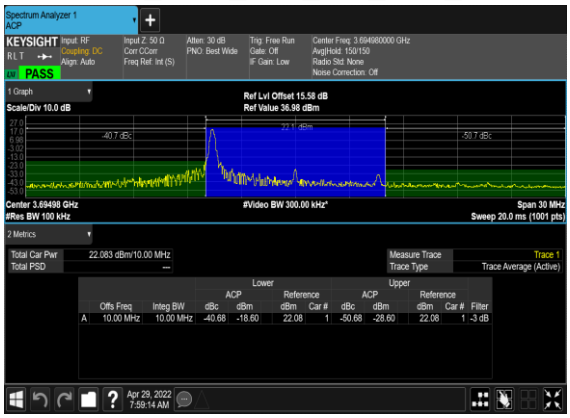
N48(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_Mid_CH



N48(10M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_High_CH

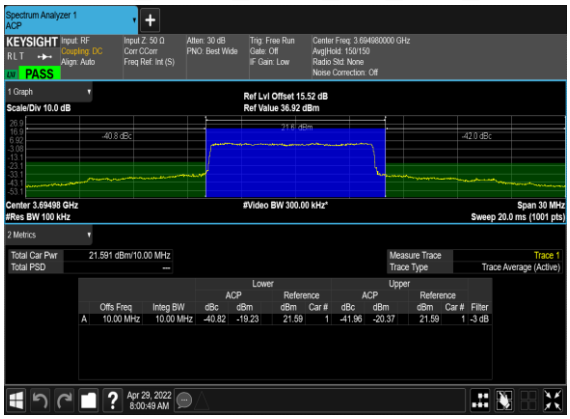


N48(10M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_High_CH

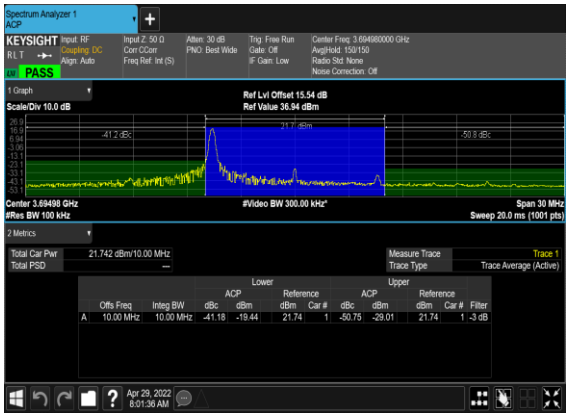


N48(10M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Right_High_CH

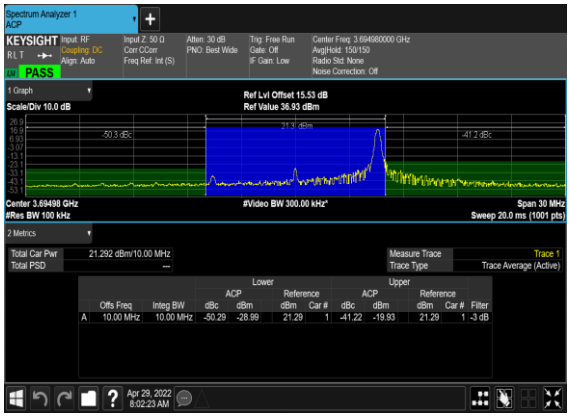
N48(10M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



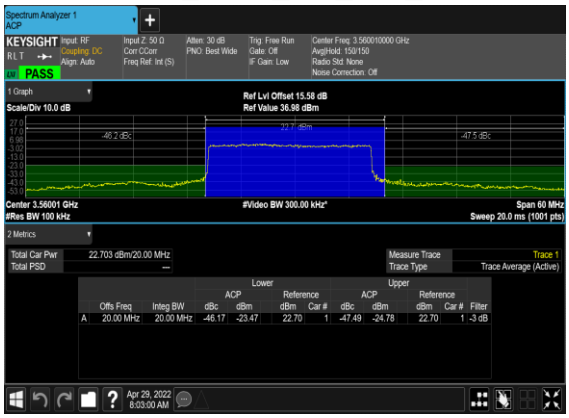
N48(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



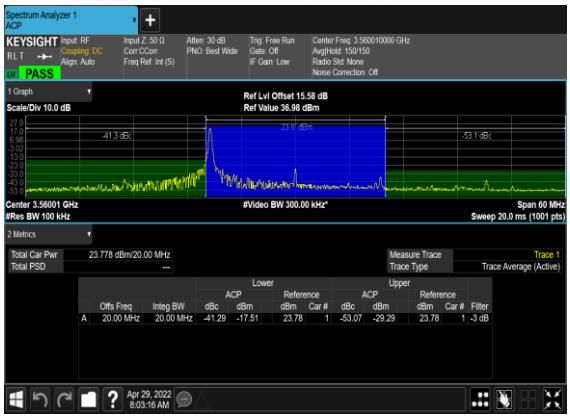
N48(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



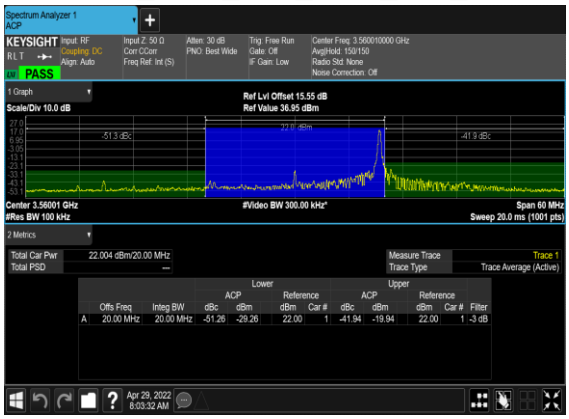
N48(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Low_CH



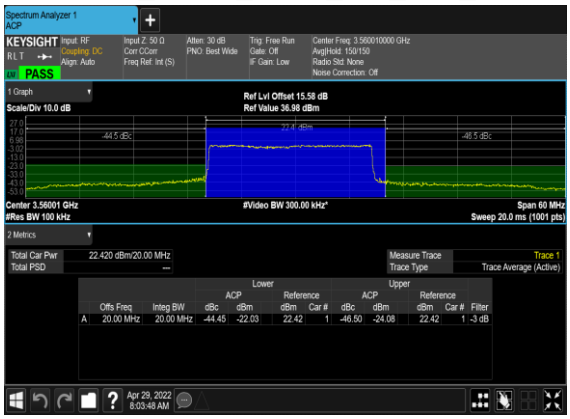
N48(20M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_Low_CH



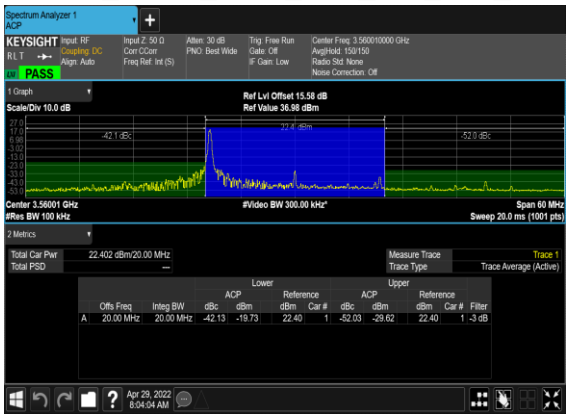
N48(20M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Right_Low_CH



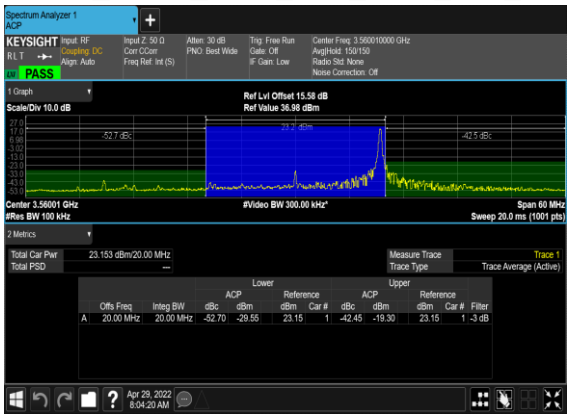
N48(20M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



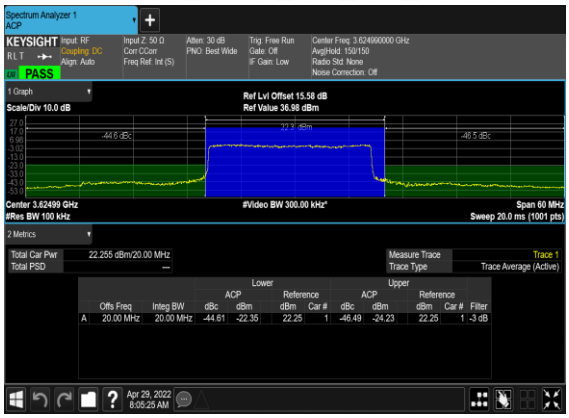
N48(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



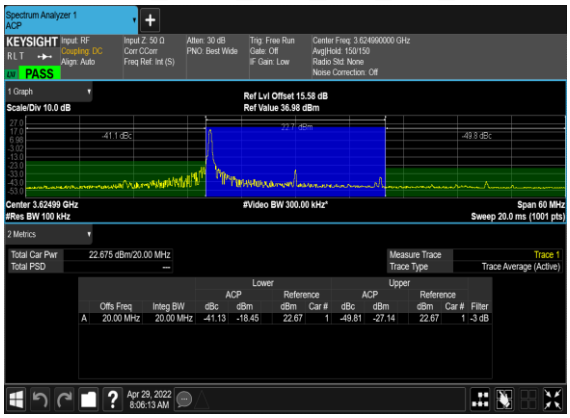
N48(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_Low_CH



N48(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH

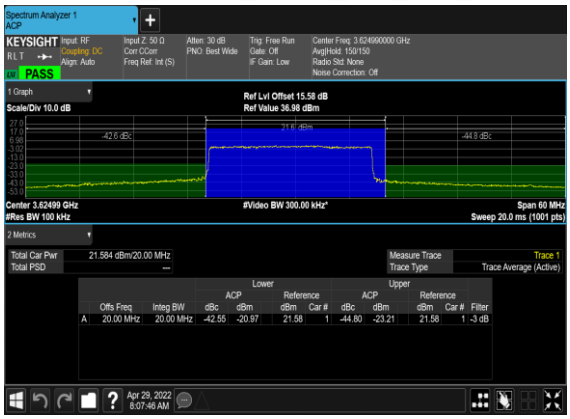


N48(20M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_Mid_CH

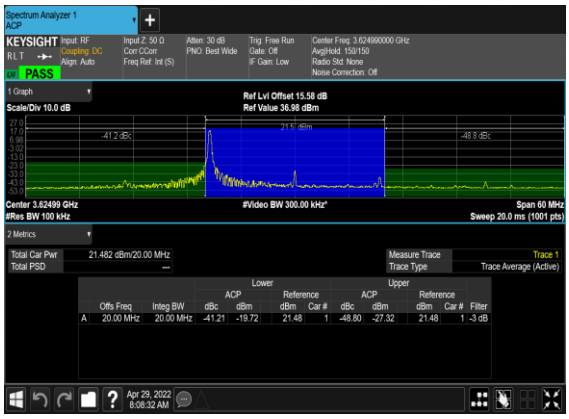


N48(20M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Right_Mid_CH

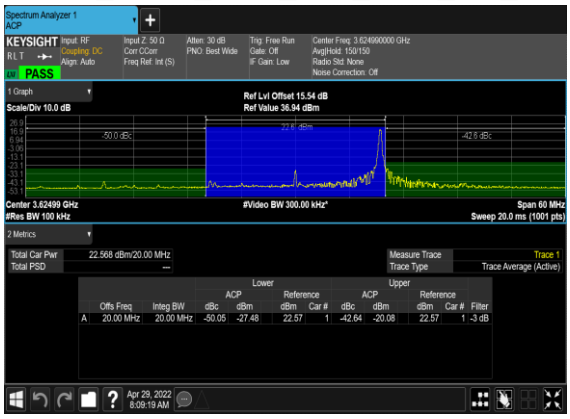
N48(20M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



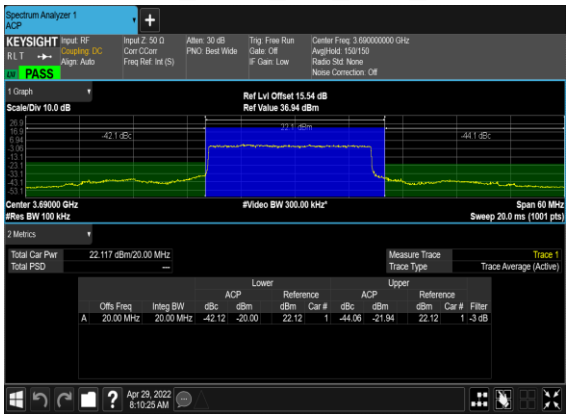
N48(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



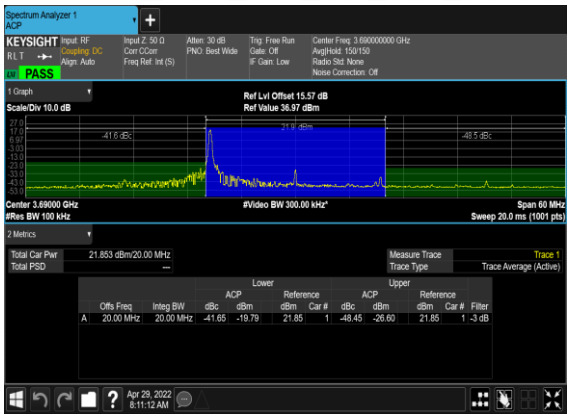
N48(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_Mid_CH



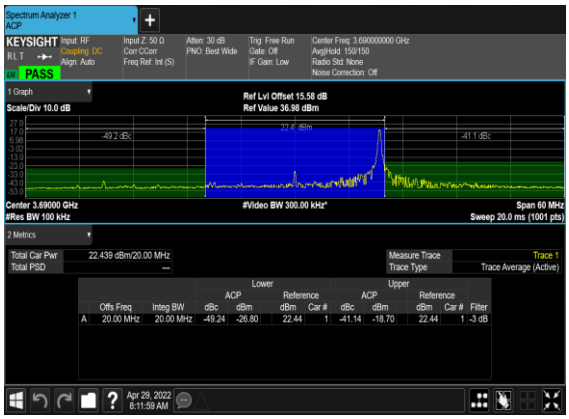
N48(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_High_CH



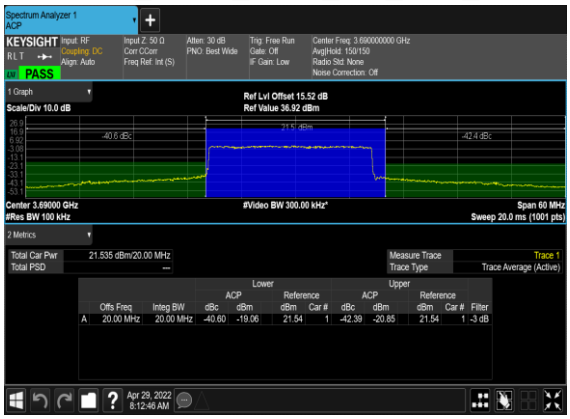
N48(20M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_High_CH



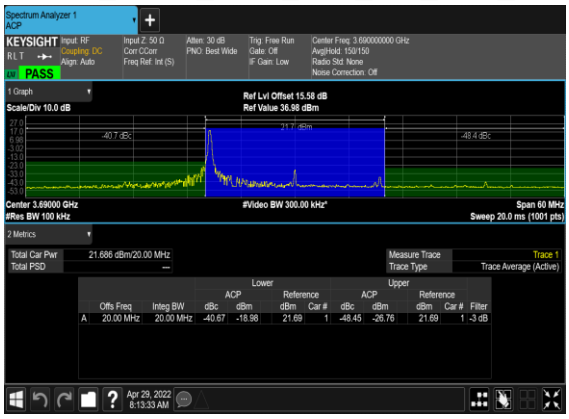
N48(20M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Right_High_CH



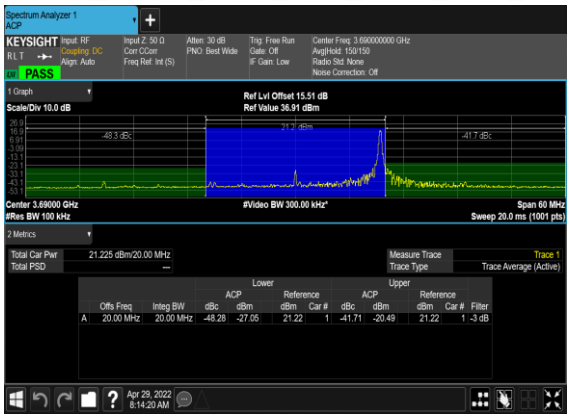
N48(20M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



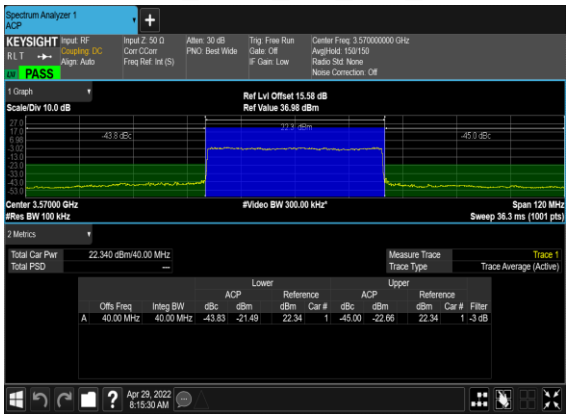
N48(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



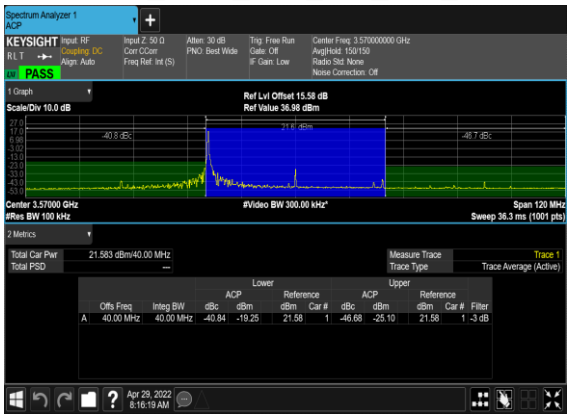
N48(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



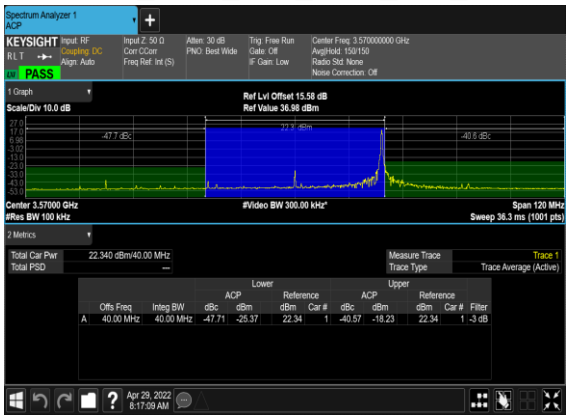
N48(40M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Low_CH



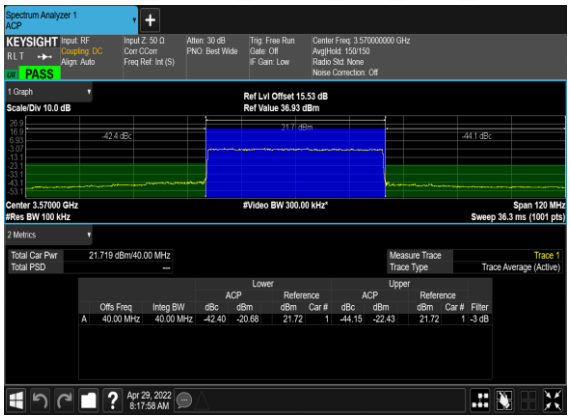
N48(40M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_Low_CH



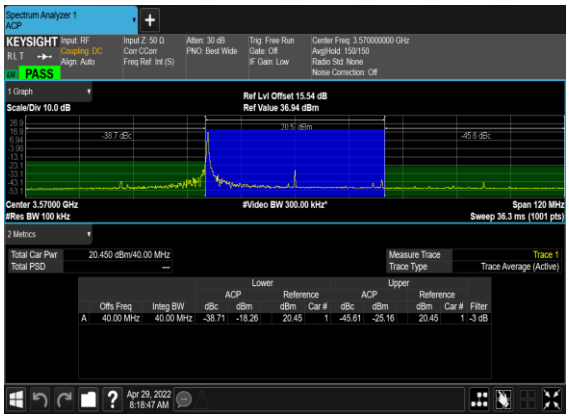
N48(40M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Right_Low_CH



N48(40M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH

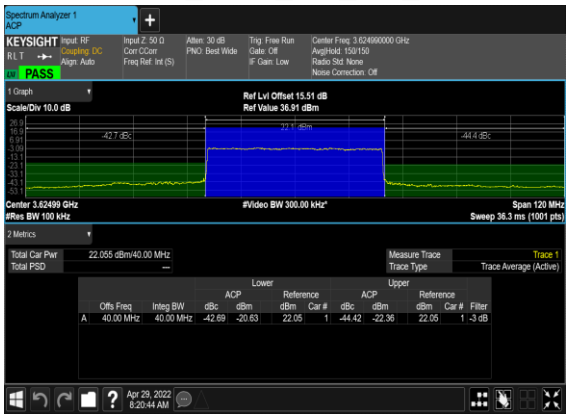


N48(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH

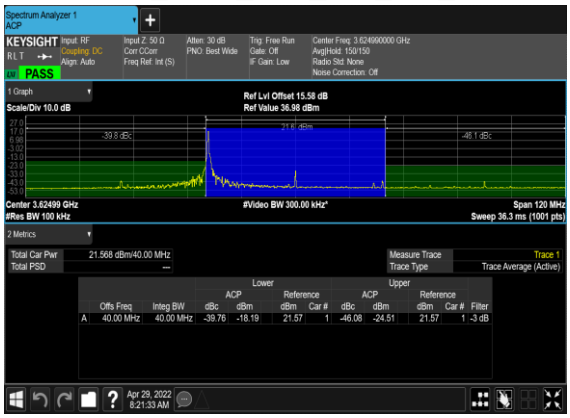


N48(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_Low_CH

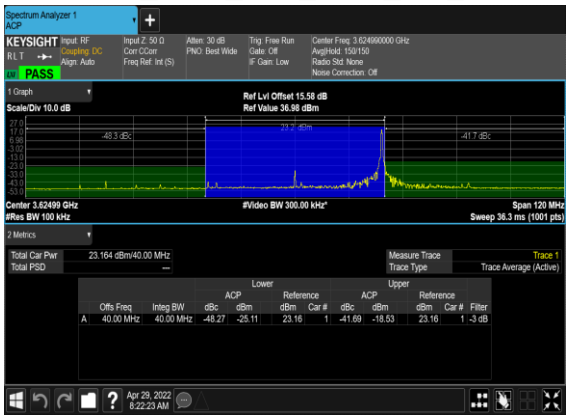
N48(40M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



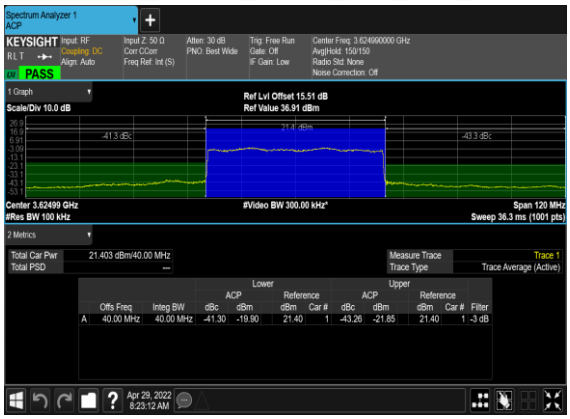
N48(40M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_Mid_CH



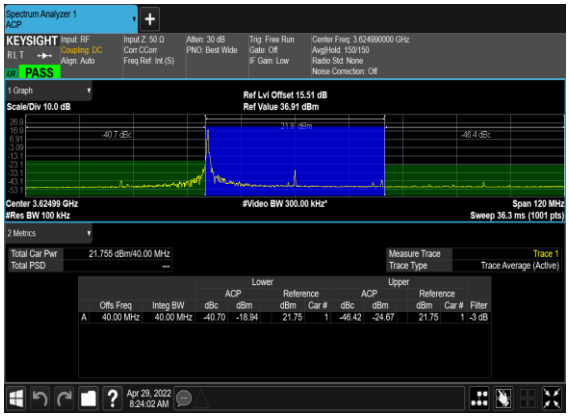
N48(40M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Right_Mid_CH



N48(40M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH

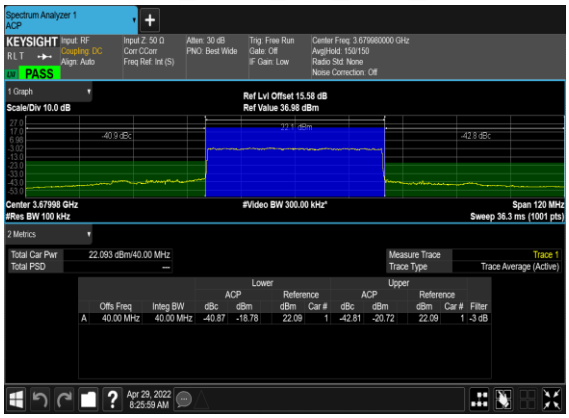


N48(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH

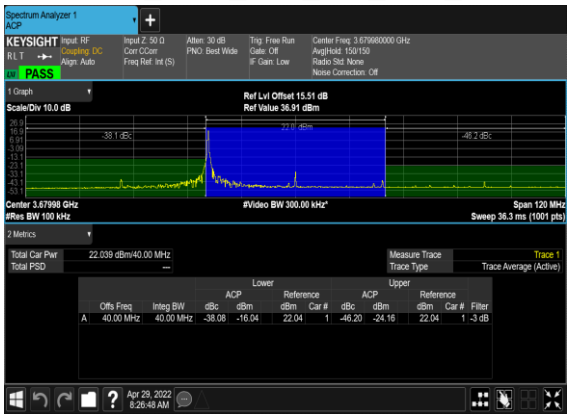


N48(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_Mid_CH

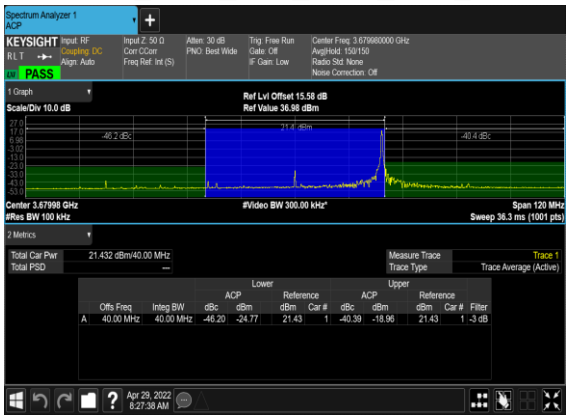
N48(40M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_High_CH



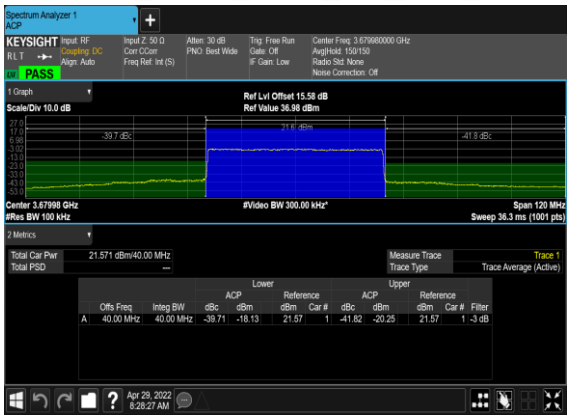
N48(40M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_High_CH



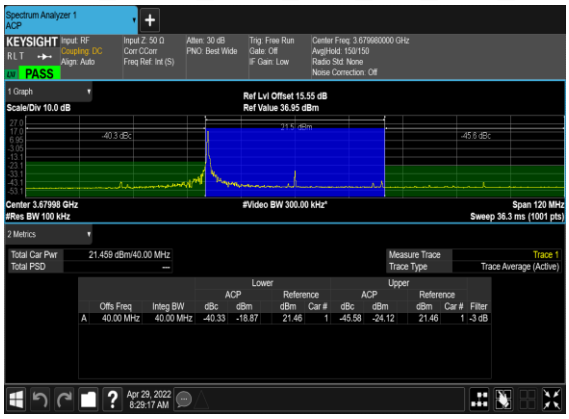
N48(40M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Right_High_CH



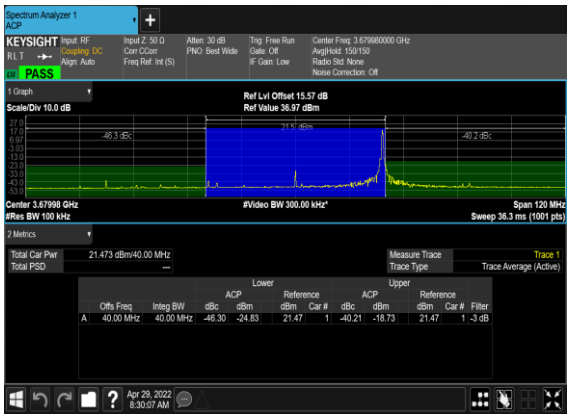
N48(40M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



N48(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



N48(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



Conducted Spurious Emissions

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
48	15	10	637000	3555.0	DFT-s-OFDM BPSK	1@0	see graph	**---**
48	15	10	637000	3555.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
48	15	10	637000	3555.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
48	15	10	637000	3555.0	DFT-s-OFDM QPSK	1@0	see graph	**---**
48	15	10	637000	3555.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
48	15	10	637000	3555.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
48	15	10	637000	3555.0	DFT-s-OFDM BPSK	1@51	see graph	**---**
48	15	10	637000	3555.0	DFT-s-OFDM BPSK	1@51	see graph	**PASS**
48	15	10	637000	3555.0	DFT-s-OFDM BPSK	1@51	see graph	**PASS**
48	15	10	637000	3555.0	DFT-s-OFDM QPSK	1@51	see graph	**---**
48	15	10	637000	3555.0	DFT-s-OFDM QPSK	1@51	see graph	**PASS**
48	15	10	637000	3555.0	DFT-s-OFDM QPSK	1@51	see graph	**PASS**
48	15	10	637000	3555.0	DFT-s-OFDM BPSK	50@0	see graph	**---**
48	15	10	637000	3555.0	DFT-s-OFDM BPSK	50@0	see graph	**PASS**
48	15	10	637000	3555.0	DFT-s-OFDM BPSK	50@0	see graph	**PASS**
48	15	10	637000	3555.0	DFT-s-OFDM QPSK	50@0	see graph	**---**
48	15	10	637000	3555.0	DFT-s-OFDM QPSK	50@0	see graph	**PASS**
48	15	10	637000	3555.0	DFT-s-OFDM QPSK	50@0	see graph	**PASS**
48	15	10	641666	3624.99	DFT-s-OFDM BPSK	1@0	see graph	**---**
48	15	10	641666	3624.99	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
48	15	10	641666	3624.99	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
48	15	10	641666	3624.99	DFT-s-OFDM QPSK	1@0	see graph	**---**

48	15	10	641666	3624.99	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
48	15	10	641666	3624.99	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
48	15	10	641666	3624.99	DFT-s-OFDM BPSK	1@51	see graph	**---**
48	15	10	641666	3624.99	DFT-s-OFDM BPSK	1@51	see graph	**PASS**
48	15	10	641666	3624.99	DFT-s-OFDM BPSK	1@51	see graph	**PASS**
48	15	10	641666	3624.99	DFT-s-OFDM QPSK	1@51	see graph	**---**
48	15	10	641666	3624.99	DFT-s-OFDM QPSK	1@51	see graph	**PASS**
48	15	10	641666	3624.99	DFT-s-OFDM QPSK	1@51	see graph	**PASS**
48	15	10	641666	3624.99	DFT-s-OFDM BPSK	50@0	see graph	**---**
48	15	10	641666	3624.99	DFT-s-OFDM BPSK	50@0	see graph	**PASS**
48	15	10	641666	3624.99	DFT-s-OFDM BPSK	50@0	see graph	**PASS**
48	15	10	641666	3624.99	DFT-s-OFDM QPSK	50@0	see graph	**---**
48	15	10	641666	3624.99	DFT-s-OFDM QPSK	50@0	see graph	**PASS**
48	15	10	641666	3624.99	DFT-s-OFDM QPSK	50@0	see graph	**PASS**
48	15	10	646332	3694.98	DFT-s-OFDM BPSK	1@0	see graph	**---**
48	15	10	646332	3694.98	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
48	15	10	646332	3694.98	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
48	15	10	646332	3694.98	DFT-s-OFDM QPSK	1@0	see graph	**---**
48	15	10	646332	3694.98	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
48	15	10	646332	3694.98	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
48	15	10	646332	3694.98	DFT-s-OFDM BPSK	1@51	see graph	**---**
48	15	10	646332	3694.98	DFT-s-OFDM BPSK	1@51	see graph	**PASS**
48	15	10	646332	3694.98	DFT-s-OFDM BPSK	1@51	see graph	**PASS**
48	15	10	646332	3694.98	DFT-s-OFDM QPSK	1@51	see graph	**---**

48	15	10	646332	3694.98	DFT-s-OFDM QPSK	1@51	see graph	**PASS**
48	15	10	646332	3694.98	DFT-s-OFDM QPSK	1@51	see graph	**PASS**
48	15	10	646332	3694.98	DFT-s-OFDM BPSK	50@0	see graph	**---**
48	15	10	646332	3694.98	DFT-s-OFDM BPSK	50@0	see graph	**PASS**
48	15	10	646332	3694.98	DFT-s-OFDM BPSK	50@0	see graph	**PASS**
48	15	10	646332	3694.98	DFT-s-OFDM QPSK	50@0	see graph	**---**
48	15	10	646332	3694.98	DFT-s-OFDM QPSK	50@0	see graph	**PASS**
48	15	10	646332	3694.98	DFT-s-OFDM QPSK	50@0	see graph	**PASS**
48	15	20	637334	3560.01	DFT-s-OFDM BPSK	1@0	see graph	**---**
48	15	20	637334	3560.01	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
48	15	20	637334	3560.01	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
48	15	20	637334	3560.01	DFT-s-OFDM QPSK	1@0	see graph	**---**
48	15	20	637334	3560.01	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
48	15	20	637334	3560.01	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
48	15	20	637334	3560.01	DFT-s-OFDM BPSK	1@105	see graph	**---**
48	15	20	637334	3560.01	DFT-s-OFDM BPSK	1@105	see graph	**PASS**
48	15	20	637334	3560.01	DFT-s-OFDM BPSK	1@105	see graph	**PASS**
48	15	20	637334	3560.01	DFT-s-OFDM QPSK	1@105	see graph	**---**
48	15	20	637334	3560.01	DFT-s-OFDM QPSK	1@105	see graph	**PASS**
48	15	20	637334	3560.01	DFT-s-OFDM QPSK	1@105	see graph	**PASS**
48	15	20	637334	3560.01	DFT-s-OFDM BPSK	100@0	see graph	**---**
48	15	20	637334	3560.01	DFT-s-OFDM BPSK	100@0	see graph	**PASS**
48	15	20	637334	3560.01	DFT-s-OFDM BPSK	100@0	see graph	**PASS**
48	15	20	637334	3560.01	DFT-s-OFDM QPSK	100@0	see graph	**---**

48	15	20	637334	3560.01	DFT-s-OFDM QPSK	100@0	see graph	**PASS**
48	15	20	637334	3560.01	DFT-s-OFDM QPSK	100@0	see graph	**PASS**
48	15	20	641666	3624.99	DFT-s-OFDM BPSK	1@0	see graph	**---**
48	15	20	641666	3624.99	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
48	15	20	641666	3624.99	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
48	15	20	641666	3624.99	DFT-s-OFDM QPSK	1@0	see graph	**---**
48	15	20	641666	3624.99	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
48	15	20	641666	3624.99	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
48	15	20	641666	3624.99	DFT-s-OFDM BPSK	1@105	see graph	**---**
48	15	20	641666	3624.99	DFT-s-OFDM BPSK	1@105	see graph	**PASS**
48	15	20	641666	3624.99	DFT-s-OFDM BPSK	1@105	see graph	**PASS**
48	15	20	641666	3624.99	DFT-s-OFDM QPSK	1@105	see graph	**---**
48	15	20	641666	3624.99	DFT-s-OFDM QPSK	1@105	see graph	**PASS**
48	15	20	641666	3624.99	DFT-s-OFDM QPSK	1@105	see graph	**PASS**
48	15	20	641666	3624.99	DFT-s-OFDM BPSK	100@0	see graph	**---**
48	15	20	641666	3624.99	DFT-s-OFDM BPSK	100@0	see graph	**PASS**
48	15	20	641666	3624.99	DFT-s-OFDM BPSK	100@0	see graph	**PASS**
48	15	20	641666	3624.99	DFT-s-OFDM QPSK	100@0	see graph	**---**
48	15	20	641666	3624.99	DFT-s-OFDM QPSK	100@0	see graph	**PASS**
48	15	20	641666	3624.99	DFT-s-OFDM QPSK	100@0	see graph	**PASS**
48	15	20	646000	3690.0	DFT-s-OFDM BPSK	1@0	see graph	**---**
48	15	20	646000	3690.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
48	15	20	646000	3690.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
48	15	20	646000	3690.0	DFT-s-OFDM QPSK	1@0	see graph	**---**

48	15	20	646000	3690.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
48	15	20	646000	3690.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
48	15	20	646000	3690.0	DFT-s-OFDM BPSK	1@105	see graph	**---**
48	15	20	646000	3690.0	DFT-s-OFDM BPSK	1@105	see graph	**PASS**
48	15	20	646000	3690.0	DFT-s-OFDM BPSK	1@105	see graph	**PASS**
48	15	20	646000	3690.0	DFT-s-OFDM QPSK	1@105	see graph	**---**
48	15	20	646000	3690.0	DFT-s-OFDM QPSK	1@105	see graph	**PASS**
48	15	20	646000	3690.0	DFT-s-OFDM QPSK	1@105	see graph	**PASS**
48	15	20	646000	3690.0	DFT-s-OFDM BPSK	100@0	see graph	**---**
48	15	20	646000	3690.0	DFT-s-OFDM BPSK	100@0	see graph	**PASS**
48	15	20	646000	3690.0	DFT-s-OFDM BPSK	100@0	see graph	**PASS**
48	15	20	646000	3690.0	DFT-s-OFDM QPSK	100@0	see graph	**---**
48	15	20	646000	3690.0	DFT-s-OFDM QPSK	100@0	see graph	**PASS**
48	15	20	646000	3690.0	DFT-s-OFDM QPSK	100@0	see graph	**PASS**
48	15	40	638000	3570.0	DFT-s-OFDM BPSK	1@0	see graph	**---**
48	15	40	638000	3570.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
48	15	40	638000	3570.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
48	15	40	638000	3570.0	DFT-s-OFDM QPSK	1@0	see graph	**---**
48	15	40	638000	3570.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
48	15	40	638000	3570.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
48	15	40	638000	3570.0	DFT-s-OFDM BPSK	1@215	see graph	**---**
48	15	40	638000	3570.0	DFT-s-OFDM BPSK	1@215	see graph	**PASS**
48	15	40	638000	3570.0	DFT-s-OFDM BPSK	1@215	see graph	**PASS**
48	15	40	638000	3570.0	DFT-s-OFDM QPSK	1@215	see graph	**---**

48	15	40	638000	3570.0	DFT-s-OFDM QPSK	1@215	see graph	**PASS**
48	15	40	638000	3570.0	DFT-s-OFDM QPSK	1@215	see graph	**PASS**
48	15	40	638000	3570.0	DFT-s-OFDM BPSK	216@0	see graph	**---**
48	15	40	638000	3570.0	DFT-s-OFDM BPSK	216@0	see graph	**PASS**
48	15	40	638000	3570.0	DFT-s-OFDM BPSK	216@0	see graph	**PASS**
48	15	40	638000	3570.0	DFT-s-OFDM QPSK	216@0	see graph	**---**
48	15	40	638000	3570.0	DFT-s-OFDM QPSK	216@0	see graph	**PASS**
48	15	40	638000	3570.0	DFT-s-OFDM QPSK	216@0	see graph	**PASS**
48	15	40	641666	3624.99	DFT-s-OFDM BPSK	1@0	see graph	**---**
48	15	40	641666	3624.99	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
48	15	40	641666	3624.99	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
48	15	40	641666	3624.99	DFT-s-OFDM QPSK	1@0	see graph	**---**
48	15	40	641666	3624.99	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
48	15	40	641666	3624.99	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
48	15	40	641666	3624.99	DFT-s-OFDM BPSK	1@215	see graph	**---**
48	15	40	641666	3624.99	DFT-s-OFDM BPSK	1@215	see graph	**PASS**
48	15	40	641666	3624.99	DFT-s-OFDM BPSK	1@215	see graph	**PASS**
48	15	40	641666	3624.99	DFT-s-OFDM QPSK	1@215	see graph	**---**
48	15	40	641666	3624.99	DFT-s-OFDM QPSK	1@215	see graph	**PASS**
48	15	40	641666	3624.99	DFT-s-OFDM QPSK	1@215	see graph	**PASS**
48	15	40	641666	3624.99	DFT-s-OFDM BPSK	216@0	see graph	**---**
48	15	40	641666	3624.99	DFT-s-OFDM BPSK	216@0	see graph	**PASS**
48	15	40	641666	3624.99	DFT-s-OFDM BPSK	216@0	see graph	**PASS**
48	15	40	641666	3624.99	DFT-s-OFDM QPSK	216@0	see graph	**---**

48	15	40	641666	3624.99	DFT-s-OFDM QPSK	216@0	see graph	**PASS**
48	15	40	641666	3624.99	DFT-s-OFDM QPSK	216@0	see graph	**PASS**
48	15	40	645332	3679.98	DFT-s-OFDM BPSK	1@0	see graph	**---**
48	15	40	645332	3679.98	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
48	15	40	645332	3679.98	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
48	15	40	645332	3679.98	DFT-s-OFDM QPSK	1@0	see graph	**---**
48	15	40	645332	3679.98	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
48	15	40	645332	3679.98	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
48	15	40	645332	3679.98	DFT-s-OFDM BPSK	1@215	see graph	**---**
48	15	40	645332	3679.98	DFT-s-OFDM BPSK	1@215	see graph	**PASS**
48	15	40	645332	3679.98	DFT-s-OFDM BPSK	1@215	see graph	**PASS**
48	15	40	645332	3679.98	DFT-s-OFDM QPSK	1@215	see graph	**---**
48	15	40	645332	3679.98	DFT-s-OFDM QPSK	1@215	see graph	**PASS**
48	15	40	645332	3679.98	DFT-s-OFDM QPSK	1@215	see graph	**PASS**
48	15	40	645332	3679.98	DFT-s-OFDM BPSK	216@0	see graph	**---**
48	15	40	645332	3679.98	DFT-s-OFDM BPSK	216@0	see graph	**PASS**
48	15	40	645332	3679.98	DFT-s-OFDM BPSK	216@0	see graph	**PASS**
48	15	40	645332	3679.98	DFT-s-OFDM QPSK	216@0	see graph	**---**
48	15	40	645332	3679.98	DFT-s-OFDM QPSK	216@0	see graph	**PASS**
48	15	40	645332	3679.98	DFT-s-OFDM QPSK	216@0	see graph	**PASS**