FCC RF Test Report

APPLICANT	:	**vivo Mobile Communication Co., Ltd.**
EQUIPMENT	:	**Mobile Phone**
BRAND NAME	:	**vivo**
MODEL NAME	:	**V2124**
FCC ID	:	**2AUCY-V2124**
STANDARD	:	**47 CFR Part 2, 22, 24, 27**
CLASSIFICATION	:	**PCS Licensed Transmitter Held to Ear (PCE)**
TEST DATE(S)	:	**Dec. 12, 2021 ~ Dec. 28, 2021**

We, Sporton International (ShenZhen) Inc., 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 (ShenZhen) Inc., the test report shall not be reproduced except in full.

Reviewed by: Derreck Chen / Supervisor

Approved by: Eric Shih / Manager

ACCREDITED
Cert #5145.01

Sporton International (ShenZhen) Inc.

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

People's Republic of China

TABLE OF CONTENTS

REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG1D1624D	Rev. 01	Initial issue of report	Jan. 10, 2022

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	Reporting Only	PASS	-
	§22.913(a)(5)	Effective Radiated Power (5G NR n5)	ERP < 7 Watt		
	§27.50(h)(2)	Equivalent Isotropic Radiated Power (5G NR n7) (5G NR n41, n38)	EIRP < 2Watt		
3.5	N/A	Peak-to-Average Ratio	<13 dB	PASS	-
3.6	§2.1049	Occupied Bandwidth	Reporting Only	PASS	-
3.7	§2.1051 §22.917(a)	Conducted Band Edge Measurement (5G NR n5)	< 43+10log10(P[Watts])	PASS	-
	§27.53(m)(4)	Conducted Band Edge Measurement (5G NR n7) (5G NR n41, n38)	§27.53(m)(4)		
3.8	§2.1051 §22.917(a)	Conducted Spurious Emission (5G NR n5)	< 43+10log10(P[Watts])	PASS	-
	§2.1051 §27.53(m)(4)	Conducted Spurious Emission (5G NR n7) (5G NR n41, n38)	< 55+10log$_{10}$(P[Watts])		
3.9	§2.1055 §22.355	Frequency Stability Temperature & Voltage	< 2.5 ppm for Part 22	PASS	-
	§24.235 §27.54		Within Authorized Band		
4.4	§2.1053 §22.917(a)	Radiated Spurious Emission (5G NR n5)	< 43+10log$_{10}$(P[Watts])	PASS	Under limit 25.93 dB at 10178.000 MHz
	§2.1053 §27.53(m)(4)	Radiated Spurious Emission (5G NR n7) (5G NR n41, n38)	< 55+10log$_{10}$(P[Watts])		

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

vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an, Dongguan,Guangdong, China

1.2 Manufacturer

vivo Mobile Communication Co., Ltd.
No.1, vivo Road, Chang'an, Dongguan,Guangdong, China

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Phone
Brand Name	vivo
Model Name	V2124
FCC ID	2AUCY-V2124
HW Version	MP_0.1
SW Version	PD2156BF_EX_A_3.8.5
EUT Stage	Identical Prototype

Remark: Only 5G NR bands are tested in this report, all the other RF bands are tested in the other reports separately.

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	5G NR n5 : 824 MHz ~ 849 MHz 5G NR n7 : 2500 MHz ~ 2570 MHz 5G NR n38 : 2570 MHz ~ 2620 MHz 5G NR n41 : 2496 MHz ~ 2690 MHz
Rx Frequency	5G NR n5 : 869 MHz ~ 894 MHz 5G NR n7 : 2620 MHz ~ 2690 MHz 5G NR n38: 2570 MHz ~ 2620 MHz 5G NR n41 : 2496 MHz ~ 2690 MHz
Bandwidth	n5: 5MHz / 10MHz / 15MHz / 20MHz n7: n71: 5MHz / 10MHz / 15MHz / 20MHz n38: 20MHz / 30MHz / 40MHz n41: 20MHz / 30MHz / 40MHz / 50MHz / 60MHz / 70MHz / 80MHz / 90MHz / 100MHz
Antenna Gain	**<Ant. 41>** n5: -4.13 dBi **<Ant. 13>** N5: -4.34 dBi n7: -2.53 dBi n38: -2.53 dBi

	n41: -1.51 dBi **<Ant. 11>** n7: 1.00 dBi n38: 1.20 dBi n41: 1.20 dBi
Type of Modulation	CP-OFDM: QPSK / 16QAM / 64QAM / 256QAM DFT-s-OFDM: PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM

Note: The maximum EIRP is calculated from max Output power and antenna gain, only the maximum EIRP is shown in the report and LTE Band 7/38/41 for Ant.11 and LTE Band 5 for Ant.41.

1.5 Modification of EUT

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

1.6 Maximum ERP/EIRP Power and Emission Designator

5G NR n5 (EN DC_7A-n5A)		PI/2 BPSK / QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	**Frequency Range (MHz)**	**Maximum ERP(W)**	**Emission Designator (99%OBW)**	**Maximum ERP(W)**	**Emission Designator (99%OBW)**
5	826.5 ~ 846.5	0.0448	4M48G7D	0.0359	4M47W7D
10	829.0 ~ 844.0	0.0434	9M29G7D	0.0344	9M30W7D
15	831.5 ~ 841.5	0.0450	14M1G7D	0.0358	14M1W7D
20	834.0 ~ 839.0	0.0445	18M9G7D	0.0353	18M9W7D

5G NR n7		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)**
5	2502.50 ~ 2567.50	0.2518	4M48G7D	0.1897	4M47W7D
10	2505.00 ~ 2565.00	0.2438	9M29G7D	0.1892	9M30W7D
15	2507.50 ~ 2562.50	0.2506	14M1G7D	0.1905	14M1W7D
20	2510.00 ~ 2560.00	0.2495	18M9G7D	0.2018	18M9W7D

5G NR n41		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	2501.01 ~ 2685.00	0.2630	8M57G7D	0.2193	8M58W7D
15	2503.50 ~ 2682.48	0.2642	13M6G7D	0.2123	13M6W7D
20	2506.02 ~ 2679.99	0.2618	18M2G7D	0.2084	18M2W7D
30	2511.00 ~ 2674.98	0.2594	27M8G7D	0.2046	27M9W7D
40	2516.01 ~ 2670.00	0.2559	37M9G7D	0.2056	37M8W7D
50	2521.02 ~ 2664.99	0.2576	47M5G7D	0.2061	47M7W7D
60	2526.00 ~ 2659.98	0.2564	57M9G7D	0.2061	57M9W7D
70	2531.01 ~ 2655.00	0.2606	67M5G7D	0.2065	67M5W7D
80	2536.02 ~ 2649.99	0.2588	77M5G7D	0.2070	77M5W7D
90	2541.00 ~ 2644.98	0.2541	87M3G7D	0.2037	87M5W7D
100	2546.01 ~ 2640.00	0.2710	97M4G7D	0.2185	97M3W7D

Note:

1. 5G NR Band n41 overlaps the entire frequency range of Band n38. Therefore, the test results provided in this report covers Band n41 as well as Band n38.
2. All modulations have been tested, only the worst test results of PSK & QAM are shown in the report.

1.7 Testing Location

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

Test Firm	Sporton International (Shenzhen) Inc.		
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 (Shenzhen) Inc.		
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.**
	03CH03-SZ	CN1256	421272

1.8 Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH03-SZ	AUDIX	E3	6.2009-8-24

1.9 Applicable Standards

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

- 47 CFR Part 2, 22, 24, 27
- ANSI C63.26-2015
- FCC KDB 971168 D01 Power Meas License Digital Systems v03r01
- FCC KDB 412172 D01 Determining ERP and EIRP v01r01

Remark:

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

2 Test Configuration of Equipment Under Test

2.1 Test Mode

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

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

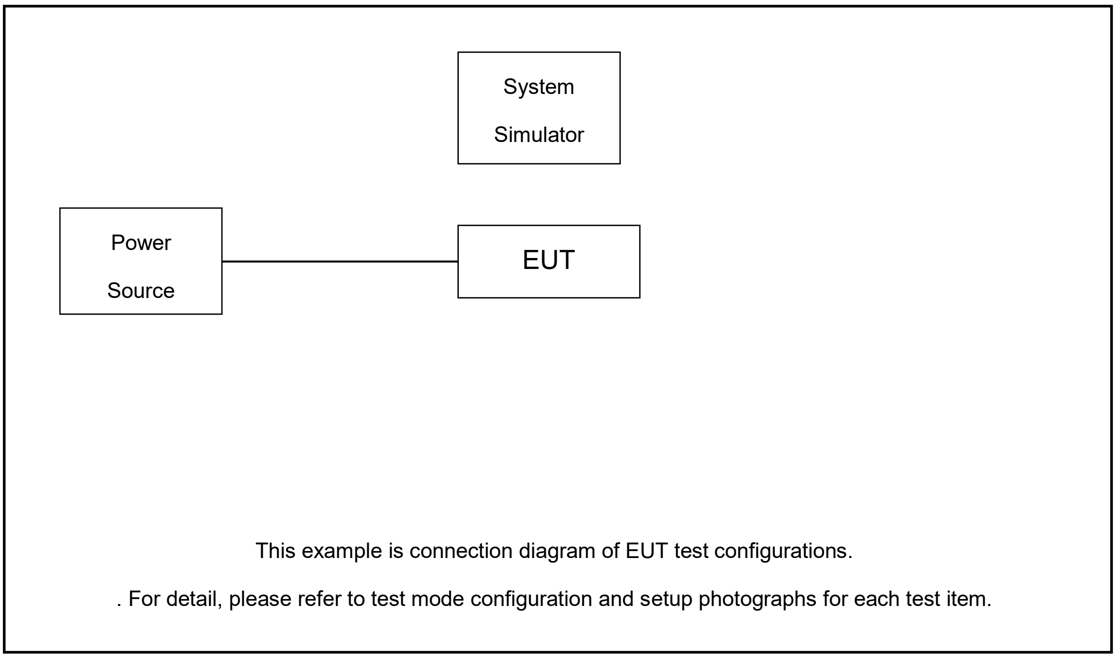
The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.

	X Plane	Y Plane	Z Plane
Orthogonal Planes of EUT			

Test Items	5G NR	Bandwidth (MHz)						Modulation					RB #		Test Channel		
		5	10	15	20	50-90	100	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	1	Full	L	M	H
Max. Output Power	n5	v	v	v	v	-	-	v	v	v	v	v	v	v	v	v	v
	n7	v	v	v	v	-	-	v	v	v	v	v	v	v	v	v	v
	n38	-	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v
	n41	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
Peak-to-Average Ratio	n5				v	-	-	v	v					v	v	v	v
	n7				v			v	v					v	v	v	v
	n41	-	-	-	v			v	v					v	v	v	v
26dB and 99% Bandwidth	n5	v	v	v	v	-	-	v	v	v	v	v		v	v	v	v
	n7	v	v	v	v			v	v	v	v	v		v	v	v	v
	n41	v	v	v	v	v	v	v	v	v	v	v		v	v	v	v

Test Items	Band	Bandwidth (MHz)						Modulation					RB #		Test Channel		
		5	10	15	20	50-90	100	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	1	Full	L	M	H
Conducted Band Edge	n5	v	v		v	-	-	v	v				v	v	v	v	v
	n7	v	v		v			v	v						v	v	v
	n41	-	v	-		v	v	v	v				v	v	v	v	v
Conducted Spurious Emission	n5	v	v		v	-	-	v	v				v	v	v	v	v
	n7	v	v		v			v	v						v	v	v
	n41	-	v	-		v	v	v	v				v	v	v	v	v
Frequency Stability	n5				v	-	-		v					v		v	
	n7				v				v					v		v	
	n41	-	-	-	v				v					v		v	
E.R.P / E.I.R.P	n5	v	v	v	v	-	-	v	v	v	v	v	v	v	v	v	v
	n7	v	v	v	v			v	v	v	v	v	v	v	v	v	v
	n38	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	n41	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
Radiated Spurious Emission	n5	Worst Case														v	
	n7	Worst Case														v	
	n41	Worst Case														v	
Note	1. The mark "**v** " means that this configuration is chosen for testing 2. The mark "-" means that this bandwidth is not supported. 3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported. 4. Based on engineering evaluation, only the worst modulations test results are shown in the report..																

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	DC Power Supply	GW	GPS-3030D	N/A	N/A	Unshielded, 1.8 m
2.	LTE Base Station	Anritsu	MT8821C	N/A	N/A	Unshielded, 1.8 m
3.	NR Base Station	Anritsu	MT8000A	N/A	N/A	Unshielded, 1.8 m

2.4 Measurement Results Explanation Example

For all conducted test items:

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

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

Offset = RF cable loss.

Following shows an offset computation example with cable loss 4.0 dB.

Example :

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

= 4.0 (dB)

2.5 Frequency List of Low/Middle/High Channels

5G NR n5 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	166800	167300	167800
	Frequency	834	836.5	839
15	Channel	166300	167300	168300
	Frequency	831.5	836.5	841.5
10	Channel	165800	167300	168800
	Frequency	829	836.5	844
5	Channel	165300	167300	169300
	Frequency	826.5	836.5	846.5

5G NR n7 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	502000	507000	512000
	Frequency	2510	2535	2560
15	Channel	501500	507000	512500
	Frequency	2507.5	2535	2562.5
10	Channel	501000	507000	513000
	Frequency	2505	2535	2565
5	Channel	500500	507000	513500
	Frequency	2502.5	2535	2567.5

5G NR n38 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
40	Channel	518000	519000	520000
	Frequency	2590	2595	2600
30	Channel	517000	519000	521000
	Frequency	2585	2595	2605
20	Channel	516000	519000	522000
	Frequency	2580	2595	2610

5G NR n41 Channel and Frequency List				
BW [MHz]	**Channel/Frequency(MHz)**	**Lowest**	**Middle**	**Highest**
100	Channel	509202	518598	528000
	Frequency	2546.01	2592.99	2640
90	Channel	508200	518598	528996
	Frequency	2541	2592.99	2644.98
80	Channel	507204	518598	529998
	Frequency	2536.02	2592.99	2649.99
60	Channel	505200	518598	531996
	Frequency	2526	2592.99	2659.98
50	Channel	504204	518598	532998
	Frequency	2521.02	2592.99	2664.99
40	Channel	503202	518598	534000
	Frequency	2516.01	2592.99	2670
20	Channel	501204	518598	535998
	Frequency	2506.02	2592.99	2679.99

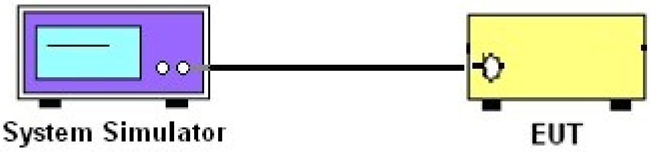
3 Conducted Test Items

3.1 Measuring Instruments

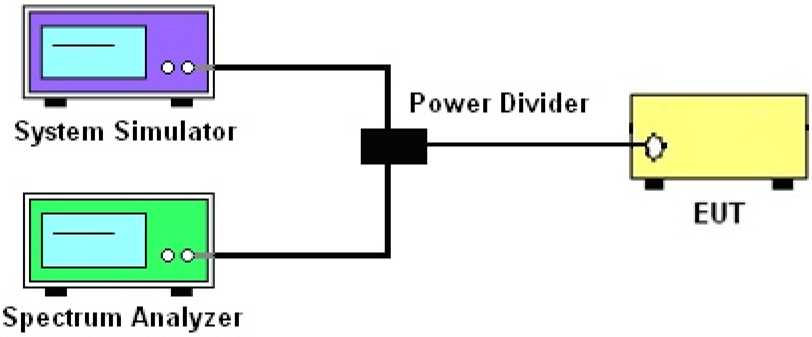
See list of measuring instruments of this test report.

3.2 Test Setup

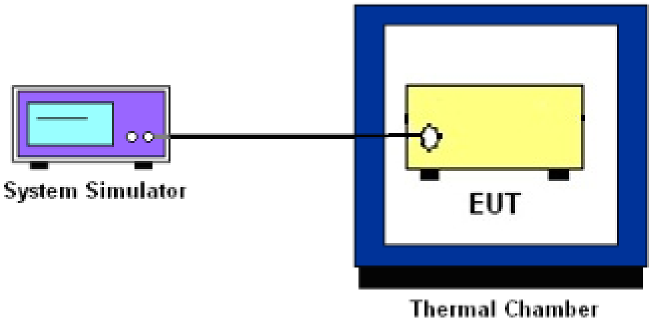
3.2.1 Conducted Output Power



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



3.2.3 Frequency Stability



3.3 Test Result of Conducted Test

Please refer to Appendix A.

3.4 Conducted Output Power and ERP/EIRP

3.4.1 Description of the Conducted Output Power Measurement and ERP/EIRP Measurement

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

The ERP of mobile transmitters must not exceed 7 Watts for 5G NR n5.

The EIRP of mobile transmitters must not exceed 2 Watts for 5G NR n41.

According to KDB 412172 D01 Power Approach,

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

P_T = transmitter output power in dBm

G_T = gain of the transmitting antenna in dBi

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

3.4.2 Test Procedures

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

3.5 Peak-to-Average Ratio

3.5.1 Description of the PAR Measurement

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

3.5.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.2.6 (PAPR).
2. The EUT was connected to spectrum and system simulator via a power divider.
3. Set EUT in maximum power output.
4. Set the RBW = 1MHz, VBW = 3MHz, Detector = Peak, Trace mode = max hold, Set span ≥ 2 × OBW in spectrum analyzer.
5. Set the RBW = 1MHz, VBW = 3MHz, Detector = power averaging, Trace mode = max hold, Set span ≥ 2 × OBW in spectrum analyzer.
6. Add [10 log (1/duty cycle)] to the measured maximum power level to compute the average power during continuous transmission.
7. PAPR (dB) = P_{Pk} (dBm) − P_{Avg} (dBm)

   where

   PAPR peak-to-average power ratio, in dB

   P_{Pk} measured peak power level, in dBm

   P_{Avg} measured average power level, in dBm
8. Record the deviation as Peak to Average Ratio.

3.6 Occupied Bandwidth

3.6.1 Description of Occupied Bandwidth Measurement

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

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

3.6.2 Test Procedures

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

3.7 Conducted Band Edge

3.7.1 Description of Conducted Band Edge Measurement

22.917(a)

For operations in the 824 – 849 MHz band, the FCC limit is 43 + $10\log_{10}$(P[Watts]) dB below the transmitter power P(Watts) in a 100kHz bandwidth. However, in the 1MHz 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.

27.53(m)(4)

For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

3.7.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The band edges of low and high channels for the highest RF powers were measured.
4. Set RBW >= 1% EBW in the 1MHz band immediately outside and adjacent to the band edge.
5. Beyond the 1 MHz band from the band edge, RBW=1MHz was used.
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. Checked that all the results comply with the emission limit line.

   Example:

   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.
9. For 5G NR n7/n38/n41, the other 40 dB, and 55 dB have additionally applied same calculation above.
10. When using the integration method, the starting frequency of the integration shall be centered at one-half of the RBW away from the band edge.

3.8 Conducted Spurious Emission

3.8.1 Description of Conducted Spurious Emission Measurement

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least 43 + 10 log (P) dB.

For 5G NR n7/n38/n41:

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least 55 + 10 log (P) dB.

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

3.8.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
4. The middle channel for the highest RF power within the transmitting frequency was measured.
5. The conducted spurious emission for the whole frequency range was taken.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz.
7. Set spectrum analyzer with RMS detector.
8. 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. 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.
11. For 5G NR n7/n38/n41

    The limit line is derived from 55 + 10log(P)dB below the transmitter power P(Watts)

    = P(W)- [55+ 10log(P)] (dB)

    = [30+ 10log(P)] (dBm) - [55+ 10log(P)] (dB)

    = -25dBm.

3.9 Frequency Stability

3.9.1 Description of Frequency Stability Measurement

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

3.9.2 Test Procedures for Temperature Variation

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

3.9.3 Test Procedures for Voltage Variation

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

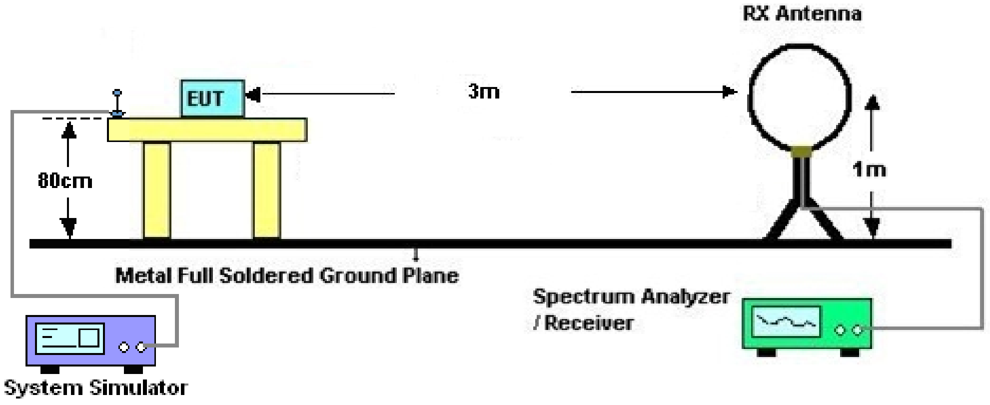
4 Radiated Test Items

4.1 Measuring Instruments

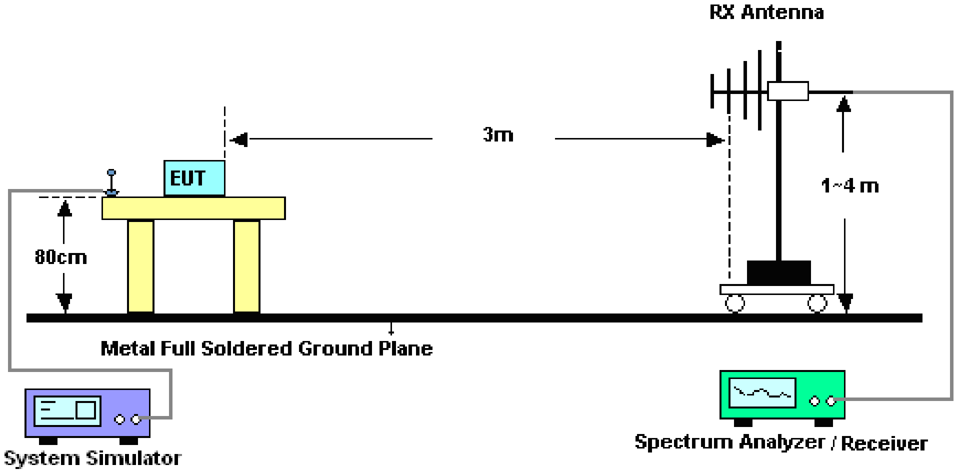
See list of measuring instruments of this test report.

4.2 Test Setup

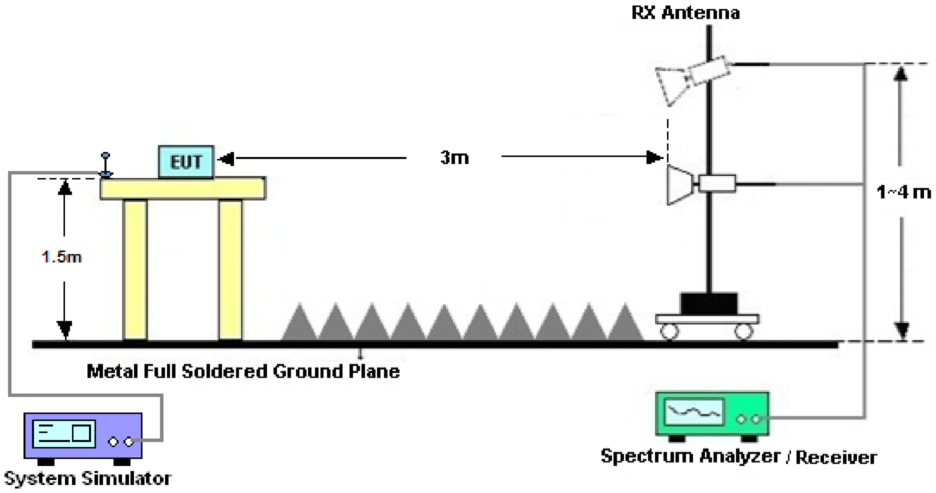
4.2.1 For radiated test below 30MHz



4.2.2 For radiated test from 30MHz to 1GHz



4.2.3 For radiated test above 1GHz



4.3 Test Result of Radiated Test

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

Please refer to Appendix B.

4.4 Radiated Spurious Emission

4.4.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI C63.26. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least 43 + 10 log (P) dB.

For 5G NR n7/n38/n41

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 55 + 10 log (P) dB.

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

4.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.5
2. The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
6. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
7. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
8. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
9. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
10. EIRP (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain
11. ERP (dBm) = EIRP - 2.15
12. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
    The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)
    = P(W)- [43 + 10log(P)] (dB)
    = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB)
    = -13dBm.
13. For 5G NR n7/n38/n41:
    The limit line is derived from 55 + 10log(P)dB below the transmitter power P(Watts)The limit line is derived from 55 + 10log(P)dB below the transmitter power P(Watts)

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. 08, 2021	Dec. 12, 2021~ Dec. 13, 2021	Apr. 07, 2022	Conducted (TH01-SZ)
Power Divider	TOJOIN	PS-2SM-04 265	60.06.020.007 7	0.4GHz~26.5GHz	Dec. 26, 2020	Dec. 12, 2021~ Dec. 13, 2021	Dec. 25, 2021	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 14, 2021	Dec. 12, 2021~ Dec. 13, 2021	Jul. 13, 2022	Conducted (TH01-SZ)
DC Power Supply	TTI	PL330P	290070	Max 32V，3A	Oct. 25, 2021	Dec. 12, 2021~ Dec. 13, 2021	Oct. 24, 2022	Conducted (TH01-SZ)
EMI Test Receiver&SA	KEYSIGHT	N9038A	MY54450083	20Hz~8.4GHz	Apr. 07, 2021	Dec. 28, 2021	Apr. 06, 2022	Radiation (03CH03-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jun. 22, 2020	Dec. 28, 2021	Jun. 21, 2022	Radiation (03CH03-SZ)
EXA Spectrum Anaiyzer	KEYSIGHT	N9010A	MY55150246	10Hz~44GHz;	Apr. 7, 2021	Dec. 28, 2021	Apr. 6, 2022	Radiation (03CH03-SZ
Bilog Antenna	TeseQ	CBL6112D	35408	30MHz-2GHz	Jun. 22, 2020	Dec. 28, 2021	Jun. 21, 2022	Radiation (03CH03-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1355	1GHz~18GHz	Apr. 25 2021	Dec. 28, 2021	Apr. 24 2022	Radiation (03CH03-SZ)
Amplifier	Burgeon	BPA-530	102211	0.01Hz ~3000MHz	Oct. 22,2021	Dec. 28, 2021	Oct. 21,2022	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	TTA1840-35 -HG	1871923	18GHz~40GHz	Oct. 22,2021	Dec. 28, 2021	Oct. 21,2022	Radiation (03CH03-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Apr. 11, 2021	Dec. 28, 2021	Apr. 10, 2022	Radiation (03CH03-SZ)
Amplifier	Agilent Technologies	83017A	MY39501302	500MHz~26.5GHz	Dec. 30,2020	Dec. 28, 2021	Dec. 29,2021	Radiation (03CH03-SZ)
AC Power Source	Chroma	61601	616010001985	N/A	NCR	Dec. 28, 2021	NCR	Radiation (03CH03-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Dec. 28, 2021	NCR	Radiation (03CH03-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Dec. 28, 2021	NCR	Radiation (03CH03-SZ)

NCR: No Calibration Required

6 Uncertainty of Evaluation

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 Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**3.3dB**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**3.6dB**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**3.8dB**

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

Appendix A. Test Results of Conducted Test

Test Engineer :	Jason Zhang	**Temperature :**	24~26℃
		Relative Humidity :	50~53%

FR1 N5(ANT41)

LTE Band: 7, LTE BW: 10M, LTE ARFCN: Mid

Transmitter Conducted Output Power And ERP/EIRP, (G_T - L_C)=-4.13dB

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	ERP(dBm)	ERP(W)
5	15	5	174300	826.5	DFT-s-OFDM PI/2 BPSK	12@6	22.49	16.21	0.0418
5	15	5	174300	826.5	DFT-s-OFDM PI/2 BPSK	1@1	22.39	16.11	0.0408
5	15	5	174300	826.5	DFT-s-OFDM PI/2 BPSK	1@23	22.42	16.14	0.0411
5	15	5	174300	826.5	DFT-s-OFDM QPSK	12@6	22.46	16.18	0.0415
5	15	5	174300	826.5	DFT-s-OFDM QPSK	1@1	22.38	16.1	0.0407
5	15	5	174300	826.5	DFT-s-OFDM QPSK	1@23	22.55	16.27	0.0424
5	15	5	174300	826.5	DFT-s-OFDM 16 QAM	12@6	21.54	15.26	0.0336
5	15	5	174300	826.5	DFT-s-OFDM 16 QAM	1@1	21.14	14.86	0.0306
5	15	5	174300	826.5	DFT-s-OFDM 16 QAM	1@23	21.25	14.97	0.0314
5	15	5	174300	826.5	DFT-s-OFDM 64 QAM	12@6	19.9	13.62	0.0230
5	15	5	174300	826.5	DFT-s-OFDM 64 QAM	1@1	19.82	13.54	0.0226
5	15	5	174300	826.5	DFT-s-OFDM 64 QAM	1@23	19.89	13.61	0.0230
5	15	5	174300	826.5	DFT-s-OFDM 256 QAM	12@6	17.89	11.61	0.0145
5	15	5	174300	826.5	DFT-s-OFDM 256 QAM	1@1	17.98	11.7	0.0148
5	15	5	174300	826.5	DFT-s-OFDM 256 QAM	1@23	18.08	11.8	0.0151
5	15	5	174300	826.5	CP-OFDM QPSK	13@6	21.09	14.81	0.0303
5	15	5	174300	826.5	CP-OFDM QPSK	1@1	21.14	14.86	0.0306
5	15	5	174300	826.5	CP-OFDM QPSK	1@23	21.3	15.02	0.0318
5	15	5	176300	836.5	DFT-s-OFDM PI/2 BPSK	12@6	22.67	16.39	0.0436
5	15	5	176300	836.5	DFT-s-OFDM PI/2 BPSK	1@1	22.6	16.32	0.0429
5	15	5	176300	836.5	DFT-s-OFDM PI/2 BPSK	1@23	22.61	16.33	0.0430
5	15	5	176300	836.5	DFT-s-OFDM QPSK	12@6	22.67	16.39	0.0436

5	15	5	176300	836.5	DFT-s-OFDM QPSK	1@1	22.66	16.38	0.0435
5	15	5	176300	836.5	DFT-s-OFDM QPSK	1@23	22.65	16.37	0.0434
5	15	5	176300	836.5	DFT-s-OFDM 16 QAM	12@6	21.7	15.42	0.0348
5	15	5	176300	836.5	DFT-s-OFDM 16 QAM	1@1	21.42	15.14	0.0327
5	15	5	176300	836.5	DFT-s-OFDM 16 QAM	1@23	21.42	15.14	0.0327
5	15	5	176300	836.5	DFT-s-OFDM 64 QAM	12@6	20.11	13.83	0.0242
5	15	5	176300	836.5	DFT-s-OFDM 64 QAM	1@1	20	13.72	0.0236
5	15	5	176300	836.5	DFT-s-OFDM 64 QAM	1@23	20.02	13.74	0.0237
5	15	5	176300	836.5	DFT-s-OFDM 256 QAM	12@6	18.12	11.84	0.0153
5	15	5	176300	836.5	DFT-s-OFDM 256 QAM	1@1	18.23	11.95	0.0157
5	15	5	176300	836.5	DFT-s-OFDM 256 QAM	1@23	18.2	11.92	0.0156
5	15	5	176300	836.5	CP-OFDM QPSK	13@6	21.28	15	0.0316
5	15	5	176300	836.5	CP-OFDM QPSK	1@1	21.46	15.18	0.0330
5	15	5	176300	836.5	CP-OFDM QPSK	1@23	21.35	15.07	0.0321
5	15	5	178300	846.5	DFT-s-OFDM PI/2 BPSK	12@6	22.77	16.49	0.0446
5	15	5	178300	846.5	DFT-s-OFDM PI/2 BPSK	1@1	22.66	16.38	0.0435
5	15	5	178300	846.5	DFT-s-OFDM PI/2 BPSK	1@23	22.65	16.37	0.0434
5	15	5	178300	846.5	DFT-s-OFDM QPSK	12@6	22.77	16.49	0.0446
5	15	5	178300	846.5	DFT-s-OFDM QPSK	1@1	22.7	16.42	0.0439
5	15	5	178300	846.5	DFT-s-OFDM QPSK	1@23	22.79	16.51	0.0448
5	15	5	178300	846.5	DFT-s-OFDM 16 QAM	12@6	21.83	15.55	0.0359
5	15	5	178300	846.5	DFT-s-OFDM 16 QAM	1@1	21.46	15.18	0.0330
5	15	5	178300	846.5	DFT-s-OFDM 16 QAM	1@23	21.51	15.23	0.0333
5	15	5	178300	846.5	DFT-s-OFDM 64 QAM	12@6	20.19	13.91	0.0246
5	15	5	178300	846.5	DFT-s-OFDM 64 QAM	1@1	20.08	13.8	0.0240
5	15	5	178300	846.5	DFT-s-OFDM 64 QAM	1@23	20.17	13.89	0.0245
5	15	5	178300	846.5	DFT-s-OFDM 256 QAM	12@6	18.17	11.89	0.0155

5	15	5	178300	846.5	DFT-s-OFDM 256 QAM	1@1	18.25	11.97	0.0157
5	15	5	178300	846.5	DFT-s-OFDM 256 QAM	1@23	18.31	12.03	0.0160
5	15	5	178300	846.5	CP-OFDM QPSK	13@6	21.34	15.06	0.0321
5	15	5	178300	846.5	CP-OFDM QPSK	1@1	21.49	15.21	0.0332
5	15	5	178300	846.5	CP-OFDM QPSK	1@23	21.56	15.28	0.0337
5	15	10	174800	829	DFT-s-OFDM PI/2 BPSK	25@12	22.41	16.13	0.0410
5	15	10	174800	829	DFT-s-OFDM PI/2 BPSK	1@1	22.23	15.95	0.0394
5	15	10	174800	829	DFT-s-OFDM PI/2 BPSK	1@50	22.38	16.1	0.0407
5	15	10	174800	829	DFT-s-OFDM QPSK	25@12	22.46	16.18	0.0415
5	15	10	174800	829	DFT-s-OFDM QPSK	1@1	22.23	15.95	0.0394
5	15	10	174800	829	DFT-s-OFDM QPSK	1@50	22.47	16.19	0.0416
5	15	10	174800	829	DFT-s-OFDM 16 QAM	25@12	21.47	15.19	0.0330
5	15	10	174800	829	DFT-s-OFDM 16 QAM	1@1	20.97	14.69	0.0294
5	15	10	174800	829	DFT-s-OFDM 16 QAM	1@50	21.18	14.9	0.0309
5	15	10	174800	829	DFT-s-OFDM 64 QAM	25@12	19.94	13.66	0.0232
5	15	10	174800	829	DFT-s-OFDM 64 QAM	1@1	19.64	13.36	0.0217
5	15	10	174800	829	DFT-s-OFDM 64 QAM	1@50	19.79	13.51	0.0224
5	15	10	174800	829	DFT-s-OFDM 256 QAM	25@12	17.87	11.59	0.0144
5	15	10	174800	829	DFT-s-OFDM 256 QAM	1@1	17.78	11.5	0.0141
5	15	10	174800	829	DFT-s-OFDM 256 QAM	1@50	17.99	11.71	0.0148
5	15	10	174800	829	CP-OFDM QPSK	26@13	20.85	14.57	0.0286
5	15	10	174800	829	CP-OFDM QPSK	1@1	20.92	14.64	0.0291
5	15	10	174800	829	CP-OFDM QPSK	1@50	21.26	14.98	0.0315
5	15	10	176300	836.5	DFT-s-OFDM PI/2 BPSK	25@12	22.54	16.26	0.0423
5	15	10	176300	836.5	DFT-s-OFDM PI/2 BPSK	1@1	22.32	16.04	0.0402
5	15	10	176300	836.5	DFT-s-OFDM PI/2 BPSK	1@50	22.53	16.25	0.0422
5	15	10	176300	836.5	DFT-s-OFDM QPSK	25@12	22.53	16.25	0.0422

5	15	10	176300	836.5	DFT-s-OFDM QPSK	1@1	22.44	16.16	0.0413
5	15	10	176300	836.5	DFT-s-OFDM QPSK	1@50	22.5	16.22	0.0419
5	15	10	176300	836.5	DFT-s-OFDM 16 QAM	25@12	21.55	15.27	0.0337
5	15	10	176300	836.5	DFT-s-OFDM 16 QAM	1@1	21.13	14.85	0.0305
5	15	10	176300	836.5	DFT-s-OFDM 16 QAM	1@50	21.23	14.95	0.0313
5	15	10	176300	836.5	DFT-s-OFDM 64 QAM	25@12	20.04	13.76	0.0238
5	15	10	176300	836.5	DFT-s-OFDM 64 QAM	1@1	19.77	13.49	0.0223
5	15	10	176300	836.5	DFT-s-OFDM 64 QAM	1@50	19.94	13.66	0.0232
5	15	10	176300	836.5	DFT-s-OFDM 256 QAM	25@12	17.98	11.7	0.0148
5	15	10	176300	836.5	DFT-s-OFDM 256 QAM	1@1	17.94	11.66	0.0147
5	15	10	176300	836.5	DFT-s-OFDM 256 QAM	1@50	18.05	11.77	0.0150
5	15	10	176300	836.5	CP-OFDM QPSK	26@13	20.95	14.67	0.0293
5	15	10	176300	836.5	CP-OFDM QPSK	1@1	21.22	14.94	0.0312
5	15	10	176300	836.5	CP-OFDM QPSK	1@50	21.24	14.96	0.0313
5	15	10	177800	844	DFT-s-OFDM PI/2 BPSK	25@12	22.61	16.33	0.0430
5	15	10	177800	844	DFT-s-OFDM PI/2 BPSK	1@1	22.44	16.16	0.0413
5	15	10	177800	844	DFT-s-OFDM PI/2 BPSK	1@50	22.52	16.24	0.0421
5	15	10	177800	844	DFT-s-OFDM QPSK	25@12	22.64	16.36	0.0433
5	15	10	177800	844	DFT-s-OFDM QPSK	1@1	22.46	16.18	0.0415
5	15	10	177800	844	DFT-s-OFDM QPSK	1@50	22.65	16.37	0.0434
5	15	10	177800	844	DFT-s-OFDM 16 QAM	25@12	21.65	15.37	0.0344
5	15	10	177800	844	DFT-s-OFDM 16 QAM	1@1	21.22	14.94	0.0312
5	15	10	177800	844	DFT-s-OFDM 16 QAM	1@50	21.33	15.05	0.0320
5	15	10	177800	844	DFT-s-OFDM 64 QAM	25@12	20.12	13.84	0.0242
5	15	10	177800	844	DFT-s-OFDM 64 QAM	1@1	19.88	13.6	0.0229
5	15	10	177800	844	DFT-s-OFDM 64 QAM	1@50	20.01	13.73	0.0236
5	15	10	177800	844	DFT-s-OFDM 256 QAM	25@12	18.05	11.77	0.0150

5	15	10	177800	844	DFT-s-OFDM 256 QAM	1@1	18.02	11.74	0.0149
5	15	10	177800	844	DFT-s-OFDM 256 QAM	1@50	18.13	11.85	0.0153
5	15	10	177800	844	CP-OFDM QPSK	26@13	21.02	14.74	0.0298
5	15	10	177800	844	CP-OFDM QPSK	1@1	21.19	14.91	0.0310
5	15	10	177800	844	CP-OFDM QPSK	1@50	21.38	15.1	0.0324
5	15	15	175300	831.5	DFT-s-OFDM PI/2 BPSK	36@18	22.62	16.34	0.0431
5	15	15	175300	831.5	DFT-s-OFDM PI/2 BPSK	1@1	22.35	16.07	0.0405
5	15	15	175300	831.5	DFT-s-OFDM PI/2 BPSK	1@77	22.53	16.25	0.0422
5	15	15	175300	831.5	DFT-s-OFDM QPSK	36@18	22.69	16.41	0.0438
5	15	15	175300	831.5	DFT-s-OFDM QPSK	1@1	22.32	16.04	0.0402
5	15	15	175300	831.5	DFT-s-OFDM QPSK	1@77	22.56	16.28	0.0425
5	15	15	175300	831.5	DFT-s-OFDM 16 QAM	36@18	21.77	15.49	0.0354
5	15	15	175300	831.5	DFT-s-OFDM 16 QAM	1@1	21.13	14.85	0.0305
5	15	15	175300	831.5	DFT-s-OFDM 16 QAM	1@77	21.36	15.08	0.0322
5	15	15	175300	831.5	DFT-s-OFDM 64 QAM	36@18	20.13	13.85	0.0243
5	15	15	175300	831.5	DFT-s-OFDM 64 QAM	1@1	19.74	13.46	0.0222
5	15	15	175300	831.5	DFT-s-OFDM 64 QAM	1@77	19.95	13.67	0.0233
5	15	15	175300	831.5	DFT-s-OFDM 256 QAM	36@18	18.22	11.94	0.0156
5	15	15	175300	831.5	DFT-s-OFDM 256 QAM	1@1	17.97	11.69	0.0148
5	15	15	175300	831.5	DFT-s-OFDM 256 QAM	1@77	18.13	11.85	0.0153
5	15	15	175300	831.5	CP-OFDM QPSK	39@19	21.13	14.85	0.0305
5	15	15	175300	831.5	CP-OFDM QPSK	1@1	21.11	14.83	0.0304
5	15	15	175300	831.5	CP-OFDM QPSK	1@77	21.2	14.92	0.0310
5	15	15	176300	836.5	DFT-s-OFDM PI/2 BPSK	36@18	22.73	16.45	0.0442
5	15	15	176300	836.5	DFT-s-OFDM PI/2 BPSK	1@1	22.43	16.15	0.0412
5	15	15	176300	836.5	DFT-s-OFDM PI/2 BPSK	1@77	22.57	16.29	0.0426
5	15	15	176300	836.5	DFT-s-OFDM QPSK	36@18	22.72	16.44	0.0441

5	15	15	176300	836.5	DFT-s-OFDM QPSK	1@1	22.56	16.28	0.0425
5	15	15	176300	836.5	DFT-s-OFDM QPSK	1@77	22.62	16.34	0.0431
5	15	15	176300	836.5	DFT-s-OFDM 16 QAM	36@18	21.8	15.52	0.0356
5	15	15	176300	836.5	DFT-s-OFDM 16 QAM	1@1	21.32	15.04	0.0319
5	15	15	176300	836.5	DFT-s-OFDM 16 QAM	1@77	21.41	15.13	0.0326
5	15	15	176300	836.5	DFT-s-OFDM 64 QAM	36@18	20.19	13.91	0.0246
5	15	15	176300	836.5	DFT-s-OFDM 64 QAM	1@1	19.85	13.57	0.0228
5	15	15	176300	836.5	DFT-s-OFDM 64 QAM	1@77	20.03	13.75	0.0237
5	15	15	176300	836.5	DFT-s-OFDM 256 QAM	36@18	18.31	12.03	0.0160
5	15	15	176300	836.5	DFT-s-OFDM 256 QAM	1@1	18.11	11.83	0.0152
5	15	15	176300	836.5	DFT-s-OFDM 256 QAM	1@77	18.25	11.97	0.0157
5	15	15	176300	836.5	CP-OFDM QPSK	39@19	21.21	14.93	0.0311
5	15	15	176300	836.5	CP-OFDM QPSK	1@1	21.33	15.05	0.0320
5	15	15	176300	836.5	CP-OFDM QPSK	1@77	21.29	15.01	0.0317
5	15	15	177300	841.5	DFT-s-OFDM PI/2 BPSK	36@18	22.72	16.44	0.0441
5	15	15	177300	841.5	DFT-s-OFDM PI/2 BPSK	1@1	22.55	16.27	0.0424
5	15	15	177300	841.5	DFT-s-OFDM PI/2 BPSK	1@77	22.67	16.39	0.0436
5	15	15	177300	841.5	DFT-s-OFDM QPSK	36@18	22.75	16.47	0.0444
5	15	15	177300	841.5	DFT-s-OFDM QPSK	1@1	22.59	16.31	0.0428
5	15	15	177300	841.5	DFT-s-OFDM QPSK	1@77	22.81	16.53	0.0450
5	15	15	177300	841.5	DFT-s-OFDM 16 QAM	36@18	21.82	15.54	0.0358
5	15	15	177300	841.5	DFT-s-OFDM 16 QAM	1@1	21.31	15.03	0.0318
5	15	15	177300	841.5	DFT-s-OFDM 16 QAM	1@77	21.5	15.22	0.0333
5	15	15	177300	841.5	DFT-s-OFDM 64 QAM	36@18	20.19	13.91	0.0246
5	15	15	177300	841.5	DFT-s-OFDM 64 QAM	1@1	19.97	13.69	0.0234
5	15	15	177300	841.5	DFT-s-OFDM 64 QAM	1@77	20.09	13.81	0.0240
5	15	15	177300	841.5	DFT-s-OFDM 256 QAM	36@18	18.3	12.02	0.0159

5	15	15	177300	841.5	DFT-s-OFDM 256 QAM	1@1	18.15	11.87	0.0154
5	15	15	177300	841.5	DFT-s-OFDM 256 QAM	1@77	18.28	12	0.0158
5	15	15	177300	841.5	CP-OFDM QPSK	39@19	21.22	14.94	0.0312
5	15	15	177300	841.5	CP-OFDM QPSK	1@1	21.4	15.12	0.0325
5	15	15	177300	841.5	CP-OFDM QPSK	1@77	21.34	15.06	0.0321
5	15	20	175800	834	DFT-s-OFDM PI/2 BPSK	50@25	22.66	16.38	0.0435
5	15	20	175800	834	DFT-s-OFDM PI/2 BPSK	1@1	22.37	16.09	0.0406
5	15	20	175800	834	DFT-s-OFDM PI/2 BPSK	1@104	22.58	16.3	0.0427
5	15	20	175800	834	DFT-s-OFDM QPSK	50@25	22.73	16.45	0.0442
5	15	20	175800	834	DFT-s-OFDM QPSK	1@1	22.34	16.06	0.0404
5	15	20	175800	834	DFT-s-OFDM QPSK	1@104	22.57	16.29	0.0426
5	15	20	175800	834	DFT-s-OFDM 16 QAM	50@25	21.75	15.47	0.0352
5	15	20	175800	834	DFT-s-OFDM 16 QAM	1@1	21.12	14.84	0.0305
5	15	20	175800	834	DFT-s-OFDM 16 QAM	1@104	21.33	15.05	0.0320
5	15	20	175800	834	DFT-s-OFDM 64 QAM	50@25	20.23	13.95	0.0248
5	15	20	175800	834	DFT-s-OFDM 64 QAM	1@1	19.72	13.44	0.0221
5	15	20	175800	834	DFT-s-OFDM 64 QAM	1@104	19.99	13.71	0.0235
5	15	20	175800	834	DFT-s-OFDM 256 QAM	50@25	18.2	11.92	0.0156
5	15	20	175800	834	DFT-s-OFDM 256 QAM	1@1	17.9	11.62	0.0145
5	15	20	175800	834	DFT-s-OFDM 256 QAM	1@104	18.2	11.92	0.0156
5	15	20	175800	834	CP-OFDM QPSK	53@26	21.22	14.94	0.0312
5	15	20	175800	834	CP-OFDM QPSK	1@1	21.1	14.82	0.0303
5	15	20	175800	834	CP-OFDM QPSK	1@104	21.27	14.99	0.0316
5	15	20	176300	836.5	DFT-s-OFDM PI/2 BPSK	50@25	22.71	16.43	0.0440
5	15	20	176300	836.5	DFT-s-OFDM PI/2 BPSK	1@1	22.38	16.1	0.0407
5	15	20	176300	836.5	DFT-s-OFDM PI/2 BPSK	1@104	22.62	16.34	0.0431
5	15	20	176300	836.5	DFT-s-OFDM QPSK	50@25	22.72	16.44	0.0441

5	15	20	176300	836.5	DFT-s-OFDM QPSK	1@1	22.47	16.19	0.0416
5	15	20	176300	836.5	DFT-s-OFDM QPSK	1@104	22.63	16.35	0.0432
5	15	20	176300	836.5	DFT-s-OFDM 16 QAM	50@25	21.76	15.48	0.0353
5	15	20	176300	836.5	DFT-s-OFDM 16 QAM	1@1	21.17	14.89	0.0308
5	15	20	176300	836.5	DFT-s-OFDM 16 QAM	1@104	21.39	15.11	0.0324
5	15	20	176300	836.5	DFT-s-OFDM 64 QAM	50@25	20.23	13.95	0.0248
5	15	20	176300	836.5	DFT-s-OFDM 64 QAM	1@1	19.75	13.47	0.0222
5	15	20	176300	836.5	DFT-s-OFDM 64 QAM	1@104	19.99	13.71	0.0235
5	15	20	176300	836.5	DFT-s-OFDM 256 QAM	50@25	18.2	11.92	0.0156
5	15	20	176300	836.5	DFT-s-OFDM 256 QAM	1@1	17.96	11.68	0.0147
5	15	20	176300	836.5	DFT-s-OFDM 256 QAM	1@104	18.18	11.9	0.0155
5	15	20	176300	836.5	CP-OFDM QPSK	53@26	21.24	14.96	0.0313
5	15	20	176300	836.5	CP-OFDM QPSK	1@1	21.21	14.93	0.0311
5	15	20	176300	836.5	CP-OFDM QPSK	1@104	21.31	15.03	0.0318
5	15	20	176800	839	DFT-s-OFDM PI/2 BPSK	50@25	22.7	16.42	0.0439
5	15	20	176800	839	DFT-s-OFDM PI/2 BPSK	1@1	22.41	16.13	0.0410
5	15	20	176800	839	DFT-s-OFDM PI/2 BPSK	1@104	22.62	16.34	0.0431
5	15	20	176800	839	DFT-s-OFDM QPSK	50@25	22.76	16.48	0.0445
5	15	20	176800	839	DFT-s-OFDM QPSK	1@1	22.52	16.24	0.0421
5	15	20	176800	839	DFT-s-OFDM QPSK	1@104	22.73	16.45	0.0442
5	15	20	176800	839	DFT-s-OFDM 16 QAM	50@25	21.76	15.48	0.0353
5	15	20	176800	839	DFT-s-OFDM 16 QAM	1@1	21.27	14.99	0.0316
5	15	20	176800	839	DFT-s-OFDM 16 QAM	1@104	21.45	15.17	0.0329
5	15	20	176800	839	DFT-s-OFDM 64 QAM	50@25	20.2	13.92	0.0247
5	15	20	176800	839	DFT-s-OFDM 64 QAM	1@1	19.82	13.54	0.0226
5	15	20	176800	839	DFT-s-OFDM 64 QAM	1@104	20.07	13.79	0.0239
5	15	20	176800	839	DFT-s-OFDM 256 QAM	50@25	18.2	11.92	0.0156

5	15	20	176800	839	DFT-s-OFDM 256 QAM	1@1	18.04	11.76	0.0150
5	15	20	176800	839	DFT-s-OFDM 256 QAM	1@104	18.27	11.99	0.0158
5	15	20	176800	839	CP-OFDM QPSK	53@26	21.26	14.98	0.0315
5	15	20	176800	839	CP-OFDM QPSK	1@1	21.31	15.03	0.0318
5	15	20	176800	839	CP-OFDM QPSK	1@104	21.43	15.15	0.0327

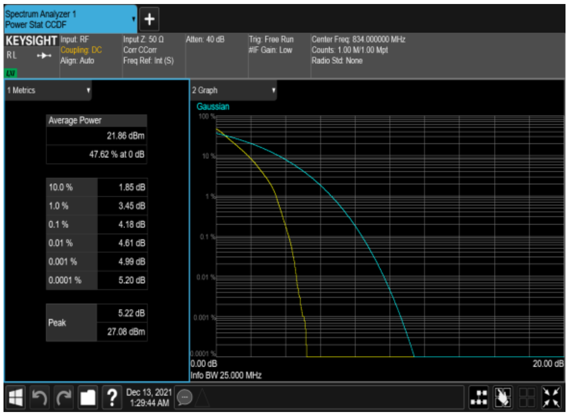
Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
5	15	20	176300	836.5	DFT-s-OFDM QPSK	100@0	-0.0044	**PASS**	NV
5	15	20	176300	836.5	DFT-s-OFDM QPSK	100@0	-0.00534	**PASS**	LV
5	15	20	176300	836.5	DFT-s-OFDM QPSK	100@0	-0.00363	**PASS**	HV
5	15	20	176300	836.5	DFT-s-OFDM QPSK	100@0	-0.00243	**PASS**	-30℃
5	15	20	176300	836.5	DFT-s-OFDM QPSK	100@0	-0.00368	**PASS**	-20℃
5	15	20	176300	836.5	DFT-s-OFDM QPSK	100@0	-0.00576	**PASS**	-10℃
5	15	20	176300	836.5	DFT-s-OFDM QPSK	100@0	-0.00548	**PASS**	0℃
5	15	20	176300	836.5	DFT-s-OFDM QPSK	100@0	-0.00527	**PASS**	10℃
5	15	20	176300	836.5	DFT-s-OFDM QPSK	100@0	-0.00358	**PASS**	20℃
5	15	20	176300	836.5	DFT-s-OFDM QPSK	100@0	-0.00674	**PASS**	30℃
5	15	20	176300	836.5	DFT-s-OFDM QPSK	100@0	-0.00307	**PASS**	40℃
5	15	20	176300	836.5	DFT-s-OFDM QPSK	100@0	-0.0059	**PASS**	50℃

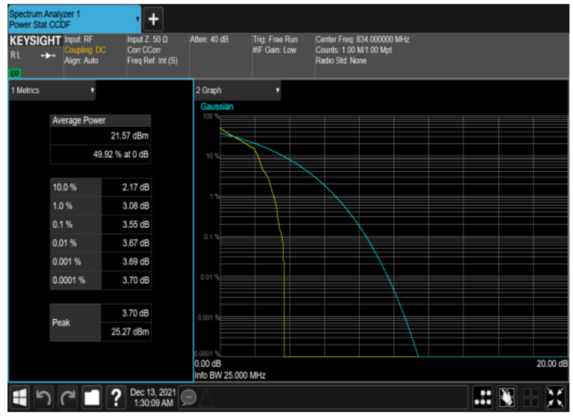
Peak to Average Radio

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
5	15	20	175800	834.0	DFT-s-OFDM PI/2 BPSK	100@0	4.18	13	**PASS**
5	15	20	175800	834.0	DFT-s-OFDM PI/2 BPSK	1@0	3.55	13	**PASS**
5	15	20	175800	834.0	DFT-s-OFDM QPSK	100@0	5.18	13	**PASS**
5	15	20	175800	834.0	DFT-s-OFDM QPSK	1@0	5.37	13	**PASS**
5	15	20	176300	836.5	DFT-s-OFDM PI/2 BPSK	100@0	4.14	13	**PASS**
5	15	20	176300	836.5	DFT-s-OFDM PI/2 BPSK	1@0	3.38	13	**PASS**
5	15	20	176300	836.5	DFT-s-OFDM QPSK	100@0	5.16	13	**PASS**
5	15	20	176300	836.5	DFT-s-OFDM QPSK	1@0	5.0	13	**PASS**
5	15	20	176800	839.0	DFT-s-OFDM PI/2 BPSK	100@0	4.06	13	**PASS**
5	15	20	176800	839.0	DFT-s-OFDM PI/2 BPSK	1@0	3.25	13	**PASS**
5	15	20	176800	839.0	DFT-s-OFDM QPSK	100@0	5.16	13	**PASS**
5	15	20	176800	839.0	DFT-s-OFDM QPSK	1@0	4.7	13	**PASS**

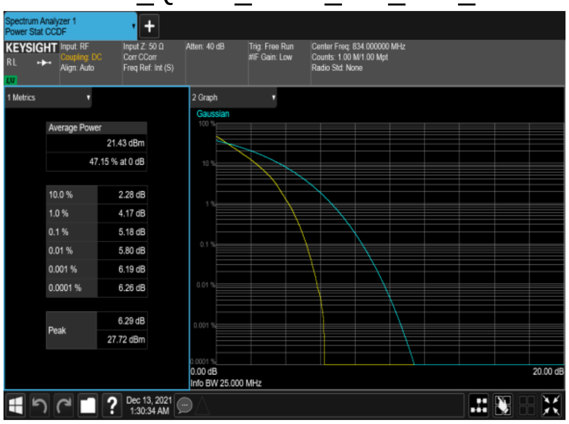
B7_N5(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Low_CH



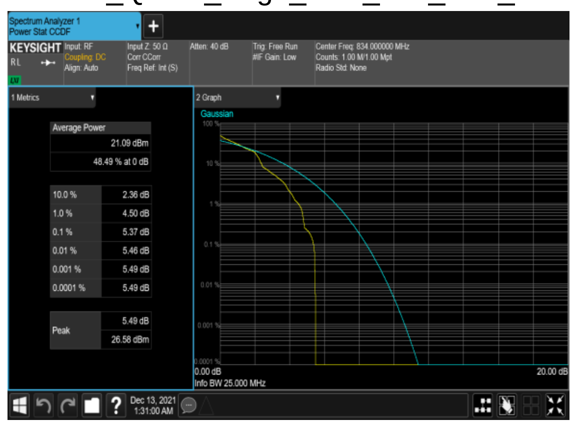
B7_N5(20M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_Low_CH



B7_N5(20M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH

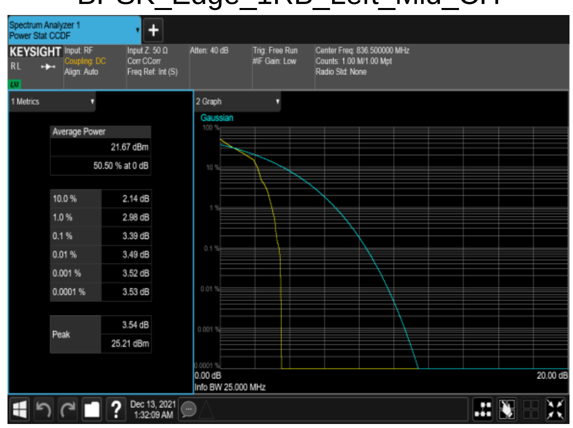


B7_N5(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH

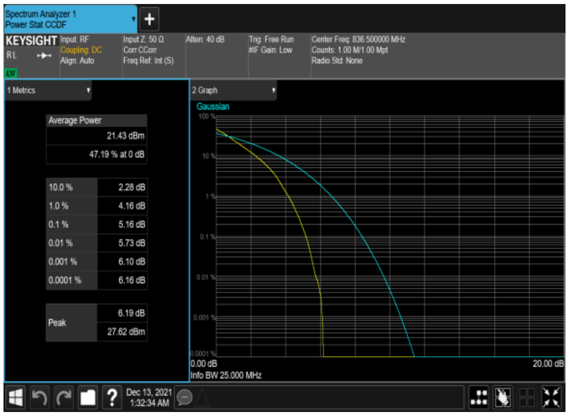


B7_N5(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH

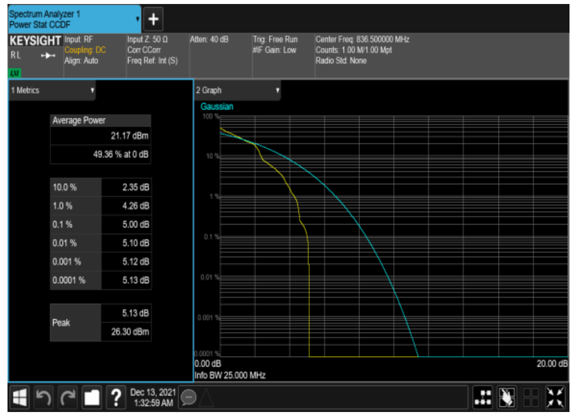
B7_N5(20M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_Mid_CH



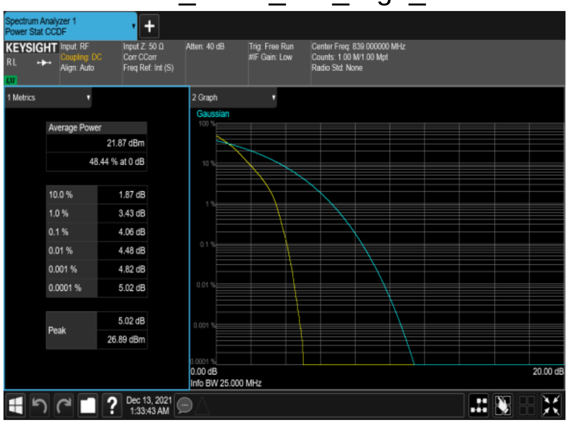
B7_N5(20M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



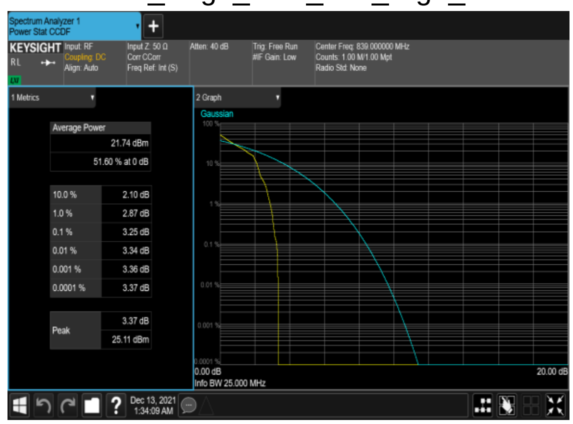
B7_N5(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



B7_N5(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_High_CH

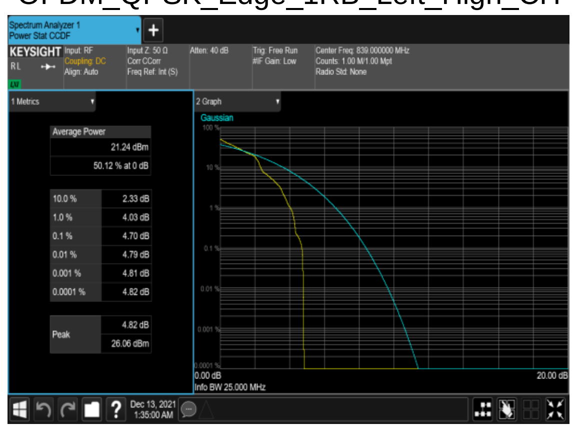


B7_N5(20M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_High_CH



B7_N5(20M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH

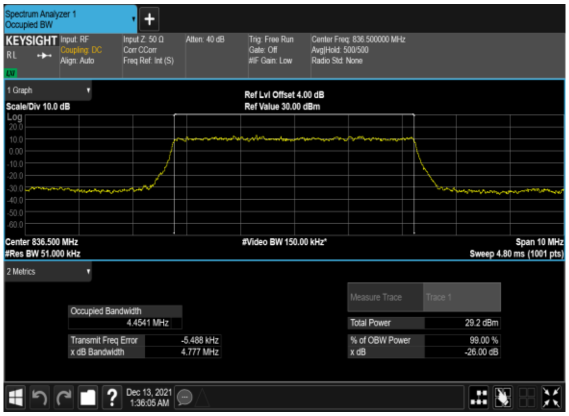
B7_N5(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



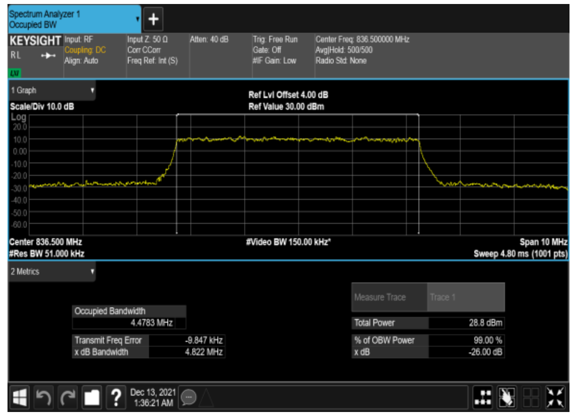
Occupied Bandwidth

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB OBW (MHz)
5	15	5	176300	836.5	DFT-s-OFDM PI/2 BPSK	25@0	4.4541	4.777
5	15	5	176300	836.5	DFT-s-OFDM QPSK	25@0	4.4783	4.822
5	15	5	176300	836.5	CP-OFDM QPSK	25@0	4.4633	4.971
5	15	5	176300	836.5	CP-OFDM 16 QAM	25@0	4.4718	4.842
5	15	5	176300	836.5	CP-OFDM 64 QAM	25@0	4.4623	4.836
5	15	5	176300	836.5	CP-OFDM 256 QAM	25@0	4.4673	5.234
5	15	10	176300	836.5	DFT-s-OFDM PI/2 BPSK	50@0	8.9045	9.486
5	15	10	176300	836.5	DFT-s-OFDM QPSK	50@0	8.8897	9.559
5	15	10	176300	836.5	CP-OFDM QPSK	52@0	9.293	9.904
5	15	10	176300	836.5	CP-OFDM 16 QAM	52@0	9.2957	9.899
5	15	10	176300	836.5	CP-OFDM 64 QAM	52@0	9.2877	9.869
5	15	10	176300	836.5	CP-OFDM 256 QAM	52@0	9.2885	9.864
5	15	15	176300	836.5	DFT-s-OFDM PI/2 BPSK	75@0	13.383	14.07
5	15	15	176300	836.5	DFT-s-OFDM QPSK	75@0	13.371	14.15
5	15	15	176300	836.5	CP-OFDM QPSK	79@0	14.112	14.75
5	15	15	176300	836.5	CP-OFDM 16 QAM	79@0	14.117	14.85
5	15	15	176300	836.5	CP-OFDM 64 QAM	79@0	14.092	14.79
5	15	15	176300	836.5	CP-OFDM 256 QAM	79@0	14.086	14.79
5	15	20	176300	836.5	DFT-s-OFDM PI/2 BPSK	100@0	17.859	18.92
5	15	20	176300	836.5	DFT-s-OFDM QPSK	100@0	17.855	18.94
5	15	20	176300	836.5	CP-OFDM QPSK	106@0	18.9	19.93
5	15	20	176300	836.5	CP-OFDM 16 QAM	106@0	18.924	20.03
5	15	20	176300	836.5	CP-OFDM 64 QAM	106@0	18.93	19.81
5	15	20	176300	836.5	CP-OFDM 256 QAM	106@0	18.944	19.93

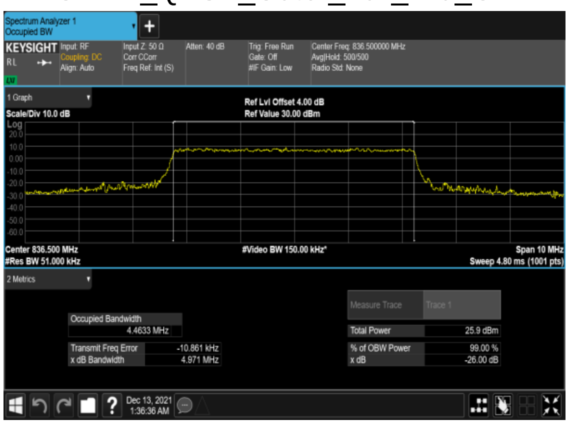
B7_N5(5M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



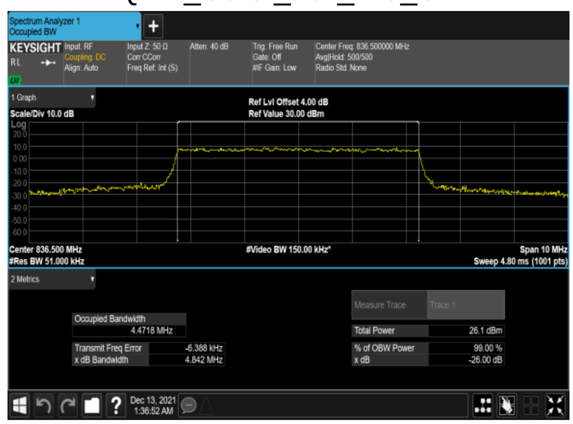
B7_N5(5M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



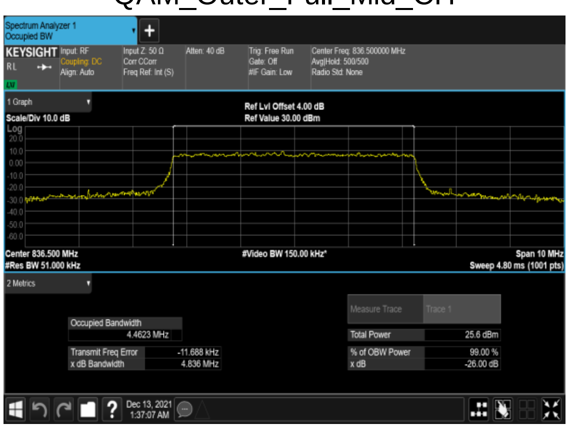
B7_N5(5M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



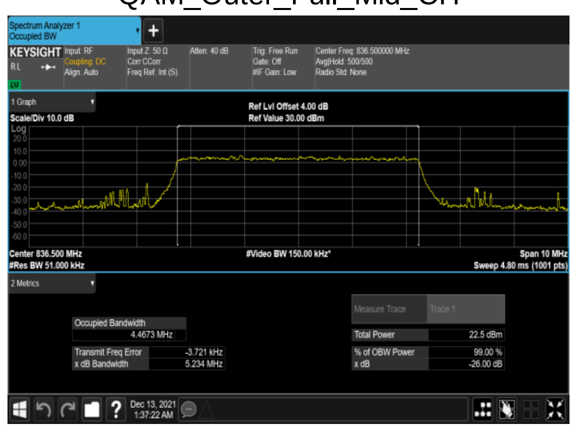
B7_N5(5M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



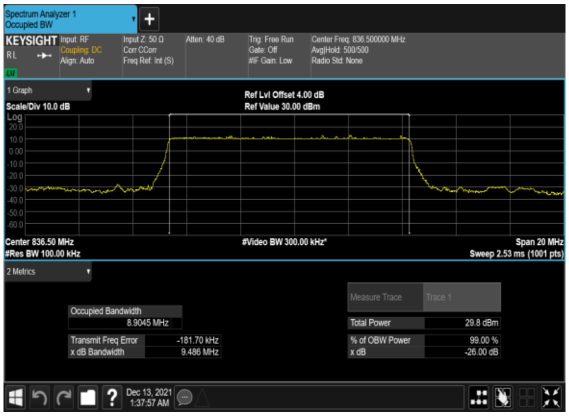
B7_N5(5M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



B7_N5(5M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



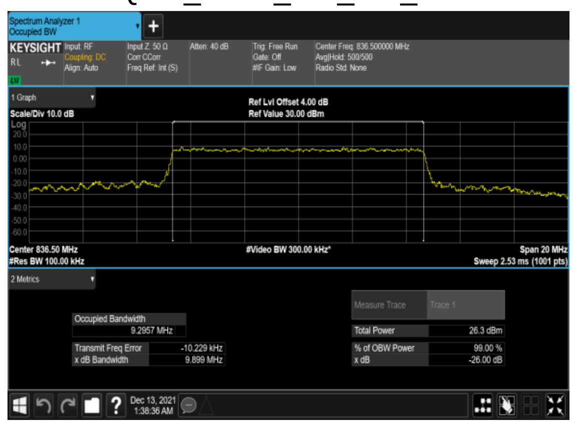
B7_N5(10M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



B7_N5(10M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH

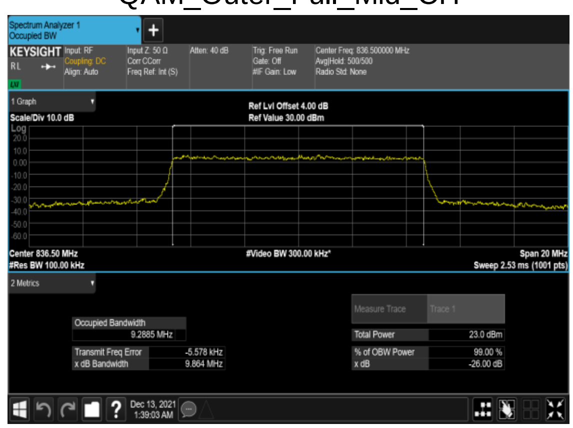
B7_N5(10M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

B7_N5(10M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



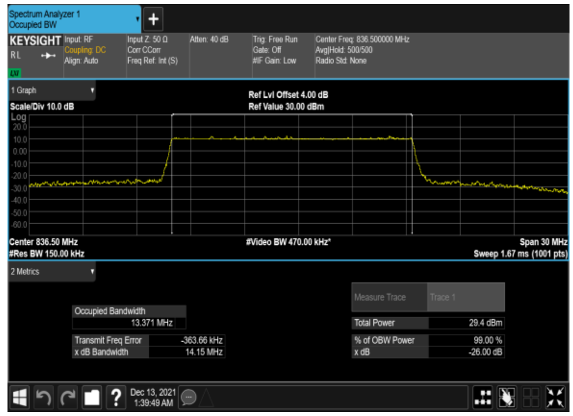
B7_N5(10M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

B7_N5(10M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

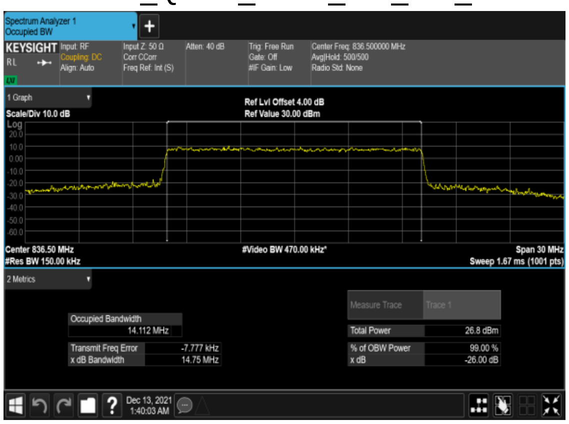


B7_N5(15M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH

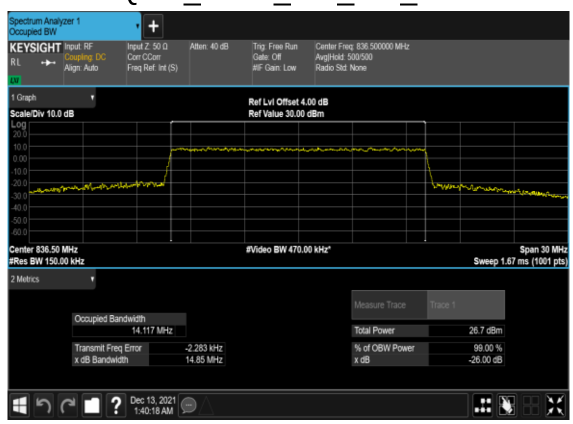
B7_N5(15M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



B7_N5(15M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

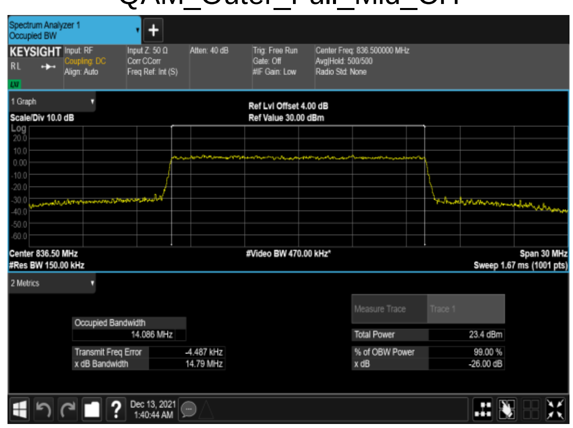


B7_N5(15M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH

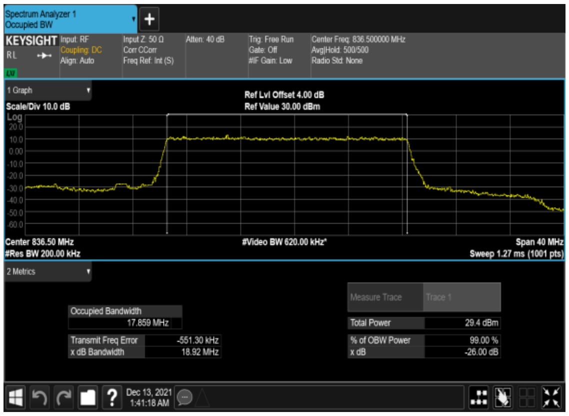


B7_N5(15M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

B7_N5(15M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



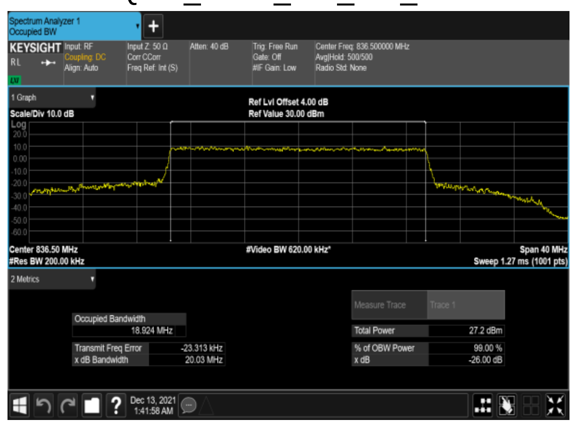
B7_N5(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



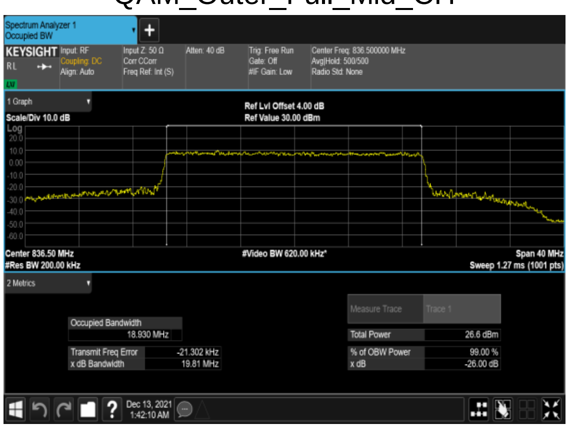
B7_N5(20M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH

B7_N5(20M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

B7_N5(20M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



B7_N5(20M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



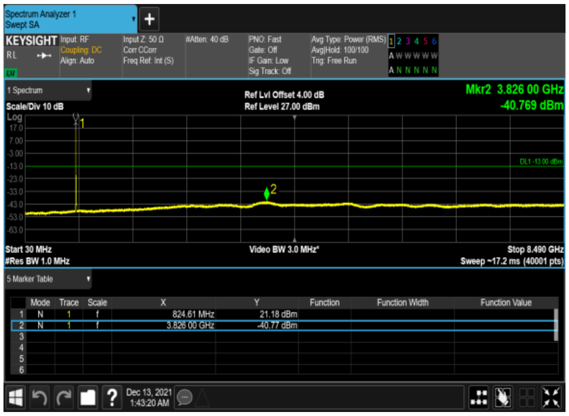
B7_N5(20M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

Conducted Spurious Emissions

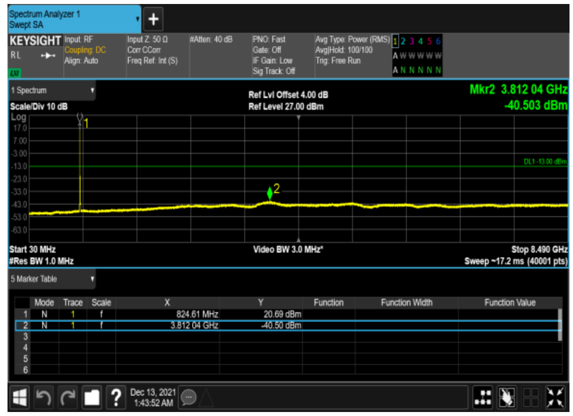
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
5	15	5	174300	826.5	DFT-s-OFDM BPSK	1@0	see graph	**---**
5	15	5	174300	826.5	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
5	15	5	174300	826.5	DFT-s-OFDM QPSK	1@0	see graph	**---**
5	15	5	174300	826.5	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
5	15	5	176300	836.5	DFT-s-OFDM BPSK	1@0	see graph	**---**
5	15	5	176300	836.5	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
5	15	5	176300	836.5	DFT-s-OFDM QPSK	1@0	see graph	**---**
5	15	5	176300	836.5	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
5	15	5	178300	846.5	DFT-s-OFDM BPSK	1@0	see graph	**---**
5	15	5	178300	846.5	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
5	15	5	178300	846.5	DFT-s-OFDM QPSK	1@0	see graph	**---**
5	15	5	178300	846.5	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
5	15	10	174800	829.0	DFT-s-OFDM BPSK	1@0	see graph	**---**
5	15	10	174800	829.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
5	15	10	174800	829.0	DFT-s-OFDM QPSK	1@0	see graph	**---**
5	15	10	174800	829.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
5	15	10	176300	836.5	DFT-s-OFDM BPSK	1@0	see graph	**---**
5	15	10	176300	836.5	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
5	15	10	176300	836.5	DFT-s-OFDM QPSK	1@0	see graph	**---**
5	15	10	176300	836.5	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
5	15	10	177800	844.0	DFT-s-OFDM BPSK	1@0	see graph	**---**
5	15	10	177800	844.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
5	15	10	177800	844.0	DFT-s-OFDM QPSK	1@0	see graph	**---**

5	15	10	177800	844.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
5	15	20	175800	834.0	DFT-s-OFDM BPSK	1@0	see graph	**---**
5	15	20	175800	834.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
5	15	20	175800	834.0	DFT-s-OFDM QPSK	1@0	see graph	**---**
5	15	20	175800	834.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
5	15	20	176300	836.5	DFT-s-OFDM BPSK	1@0	see graph	**---**
5	15	20	176300	836.5	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
5	15	20	176300	836.5	DFT-s-OFDM QPSK	1@0	see graph	**---**
5	15	20	176300	836.5	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
5	15	20	176800	839.0	DFT-s-OFDM BPSK	1@0	see graph	**---**
5	15	20	176800	839.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
5	15	20	176800	839.0	DFT-s-OFDM QPSK	1@0	see graph	**---**
5	15	20	176800	839.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**

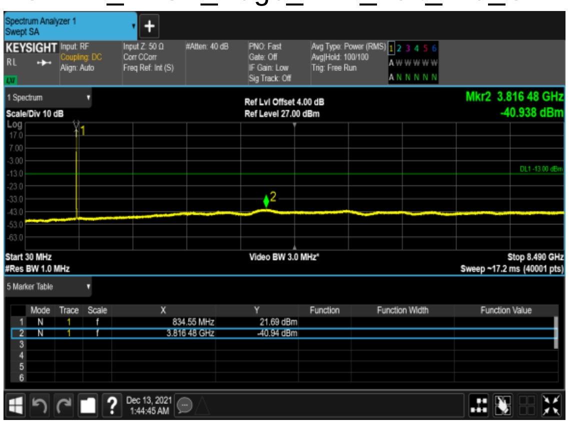
B7_N5(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



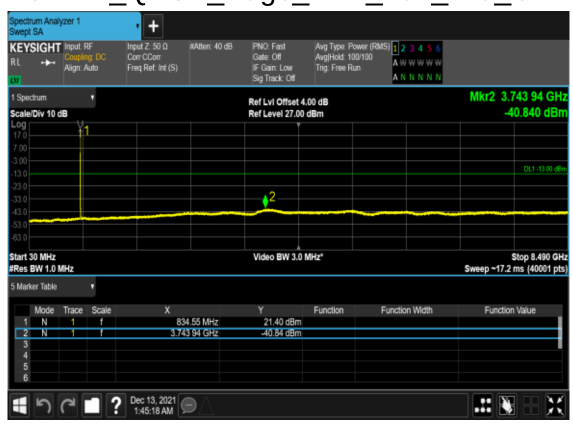
B7_N5(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



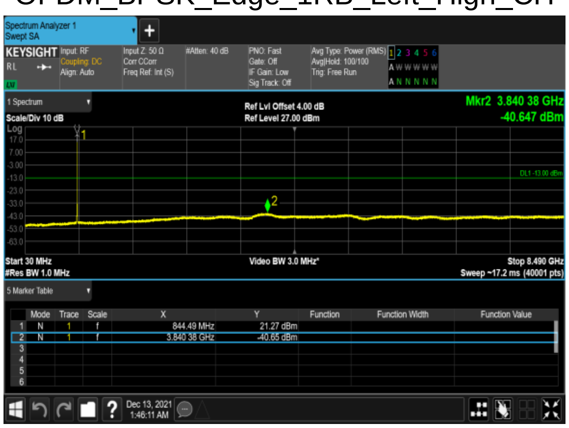
B7_N5(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



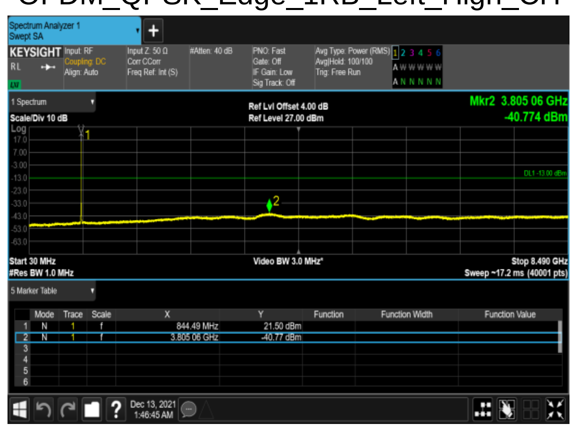
B7_N5(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



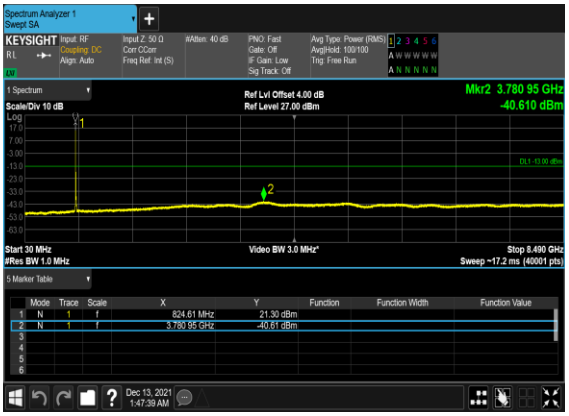
B7_N5(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



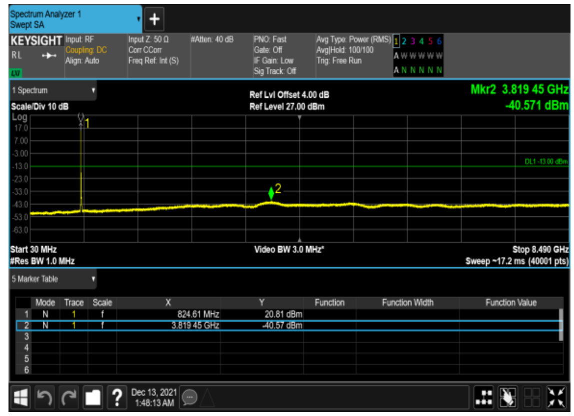
B7_N5(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



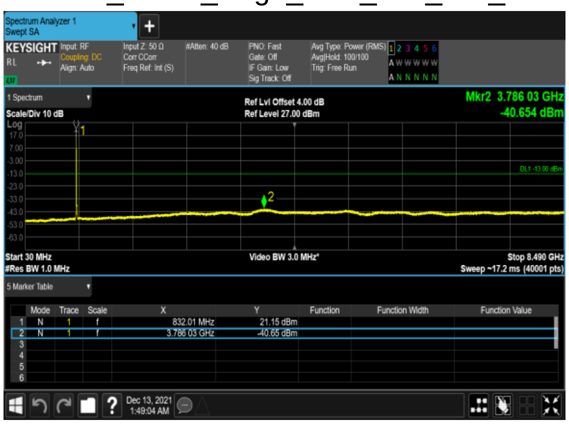
B7_N5(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



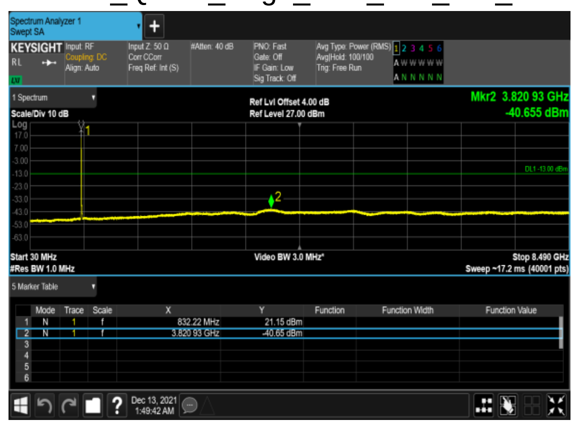
B7_N5(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



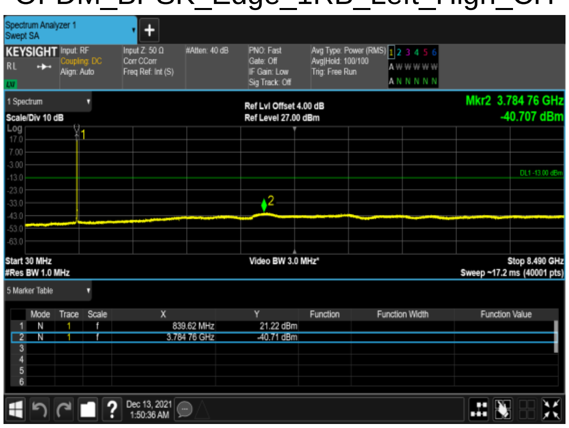
B7_N5(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



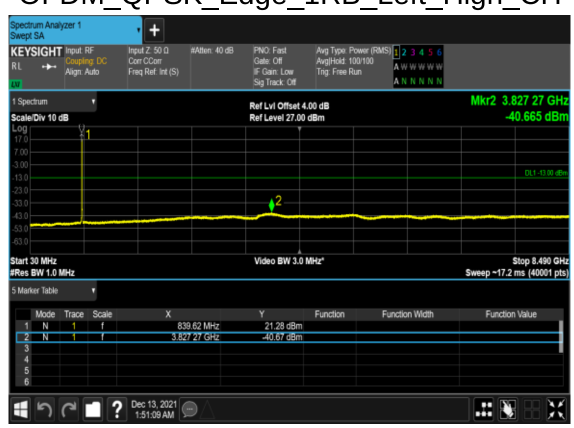
B7_N5(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



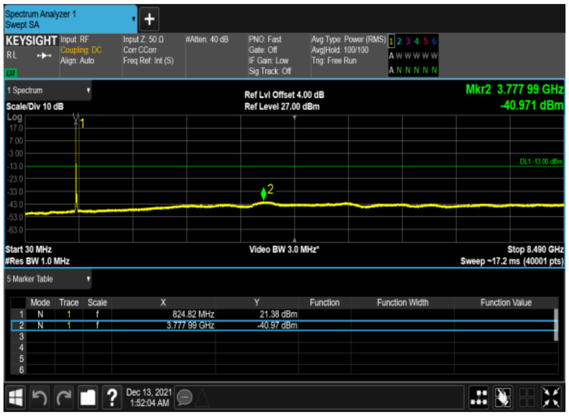
B7_N5(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



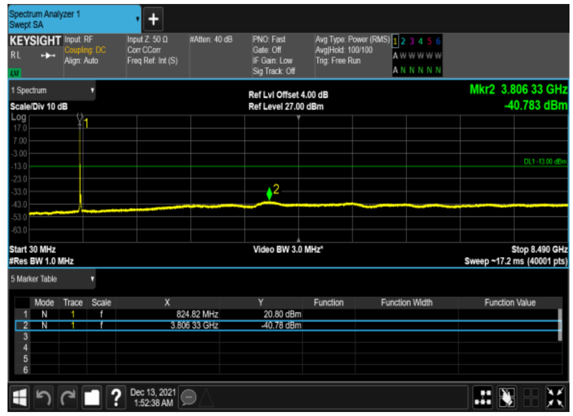
B7_N5(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



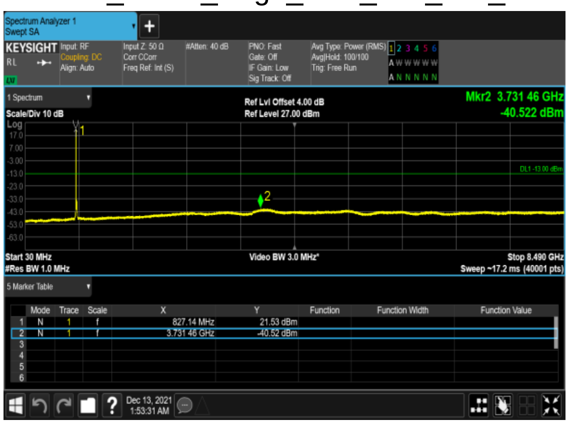
B7_N5(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



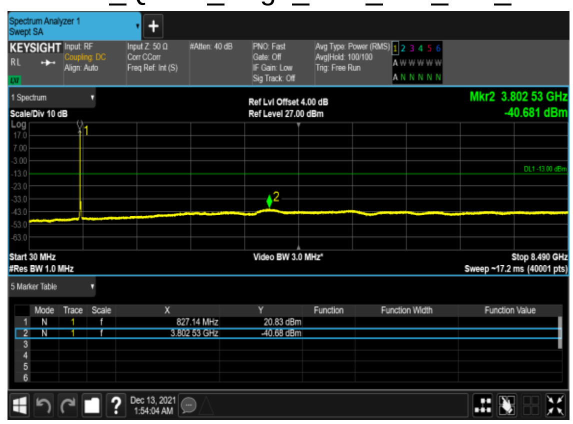
B7_N5(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



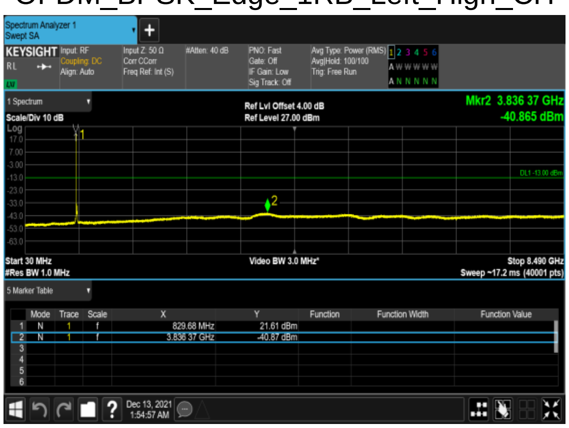
B7_N5(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



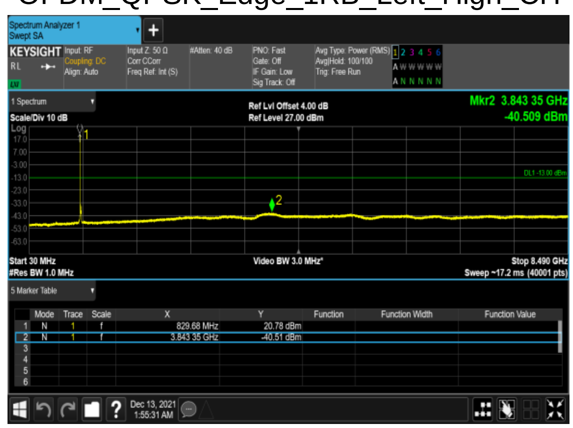
B7_N5(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



B7_N5(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



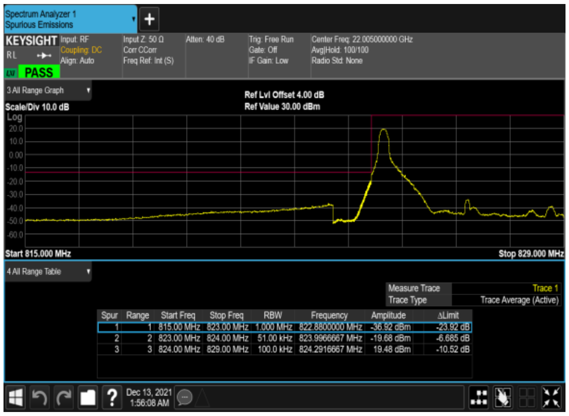
B7_N5(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



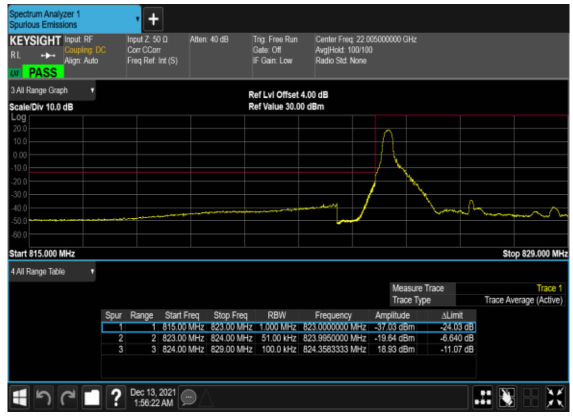
Conducted Band Edge

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
5	15	5	174300	826.5	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
5	15	5	174300	826.5	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
5	15	5	174300	826.5	DFT-s-OFDM BPSK	25@0	see graph	**PASS**
5	15	5	174300	826.5	DFT-s-OFDM QPSK	25@0	see graph	**PASS**
5	15	5	178300	846.5	DFT-s-OFDM BPSK	1@24	see graph	**PASS**
5	15	5	178300	846.5	DFT-s-OFDM QPSK	1@24	see graph	**PASS**
5	15	5	178300	846.5	DFT-s-OFDM BPSK	25@0	see graph	**PASS**
5	15	5	178300	846.5	DFT-s-OFDM QPSK	25@0	see graph	**PASS**
5	15	10	174800	829.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
5	15	10	174800	829.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
5	15	10	174800	829.0	DFT-s-OFDM BPSK	50@0	see graph	**PASS**
5	15	10	174800	829.0	DFT-s-OFDM QPSK	50@0	see graph	**PASS**
5	15	10	177800	844.0	DFT-s-OFDM BPSK	1@51	see graph	**PASS**
5	15	10	177800	844.0	DFT-s-OFDM QPSK	1@51	see graph	**PASS**
5	15	10	177800	844.0	DFT-s-OFDM BPSK	50@0	see graph	**PASS**
5	15	10	177800	844.0	DFT-s-OFDM QPSK	50@0	see graph	**PASS**
5	15	20	175800	834.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
5	15	20	175800	834.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
5	15	20	175800	834.0	DFT-s-OFDM BPSK	100@0	see graph	**PASS**
5	15	20	175800	834.0	DFT-s-OFDM QPSK	100@0	see graph	**PASS**
5	15	20	176800	839.0	DFT-s-OFDM BPSK	1@105	see graph	**PASS**
5	15	20	176800	839.0	DFT-s-OFDM QPSK	1@105	see graph	**PASS**
5	15	20	176800	839.0	DFT-s-OFDM BPSK	100@0	see graph	**PASS**
5	15	20	176800	839.0	DFT-s-OFDM QPSK	100@0	see graph	**PASS**

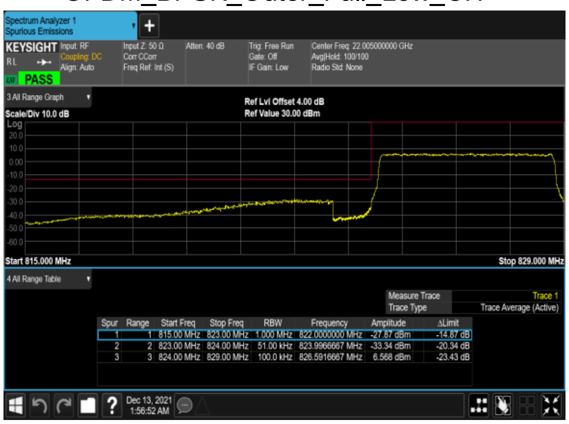
B7_N5(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



B7_N5(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH

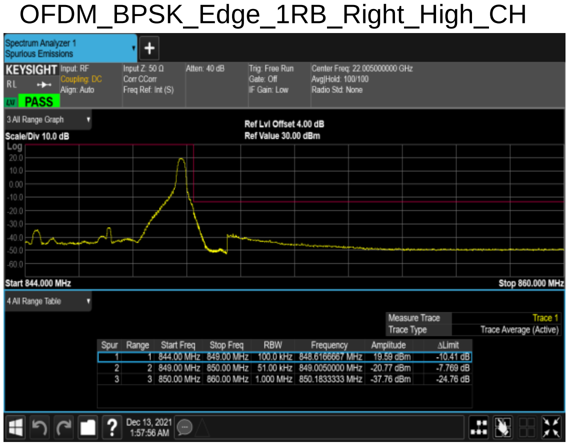


B7_N5(5M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH

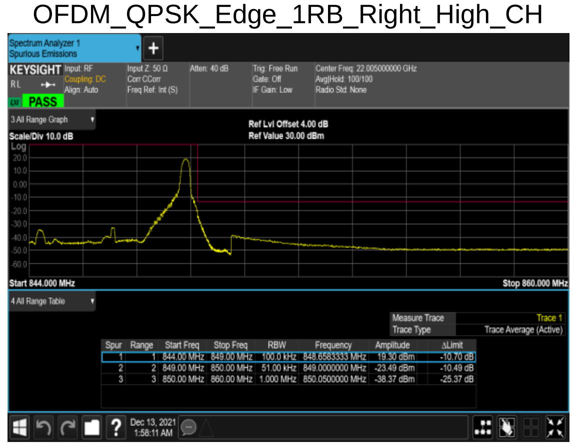


B7_N5(5M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH

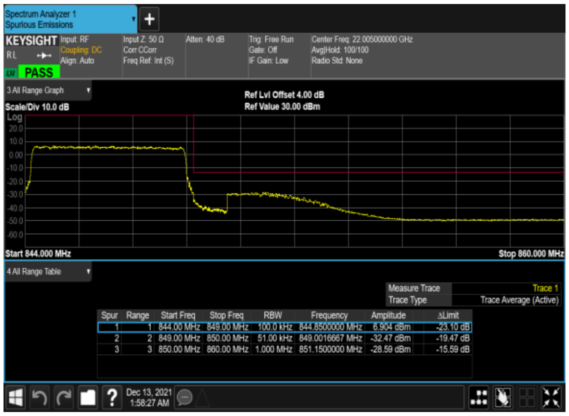
B7_N5(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH



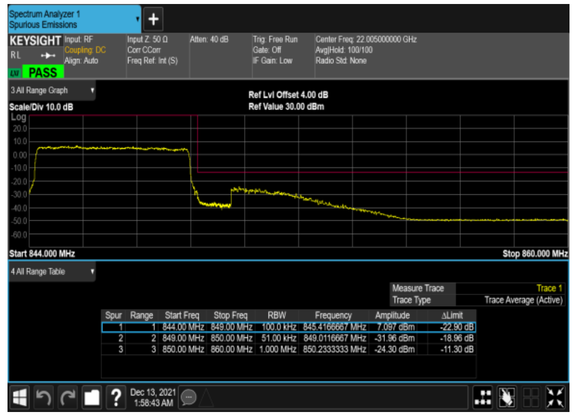
B7_N5(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



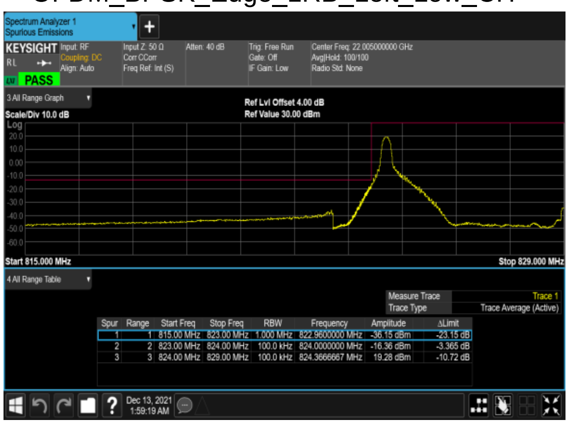
B7_N5(5M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH



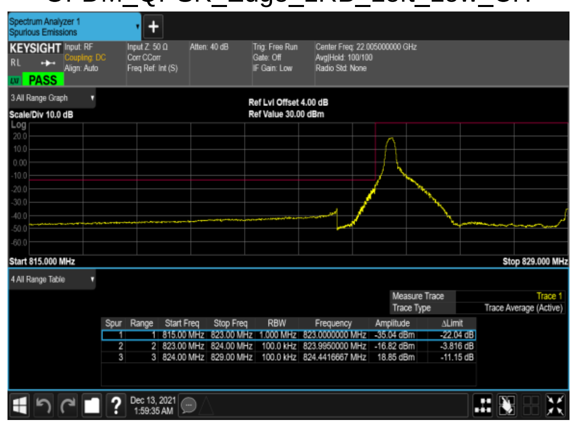
B7_N5(5M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



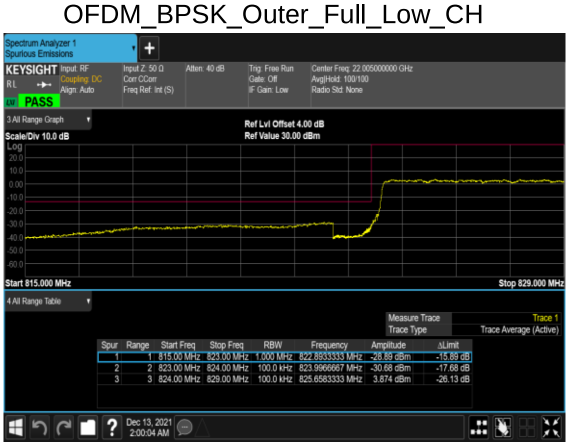
B7_N5(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



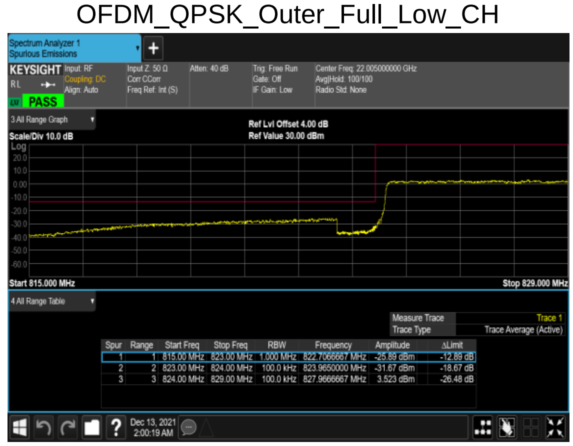
B7_N5(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



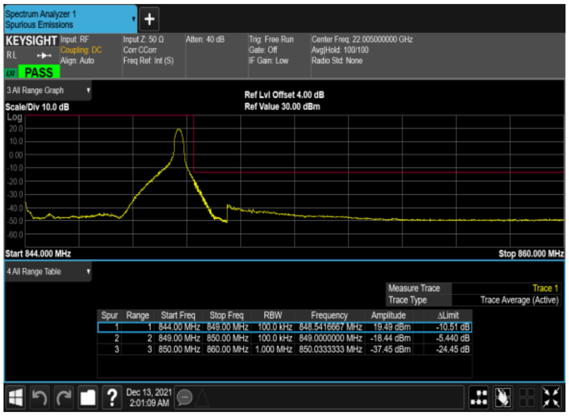
B7_N5(10M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH



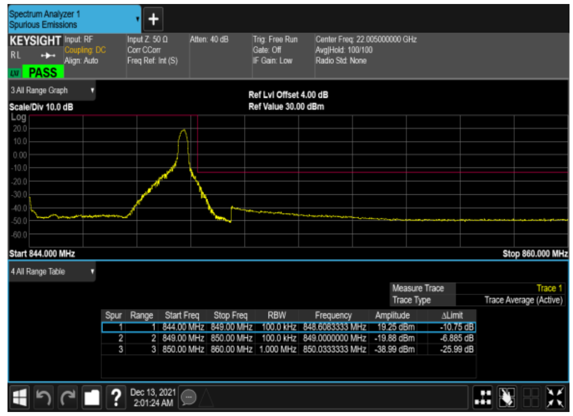
B7_N5(10M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



B7_N5(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH



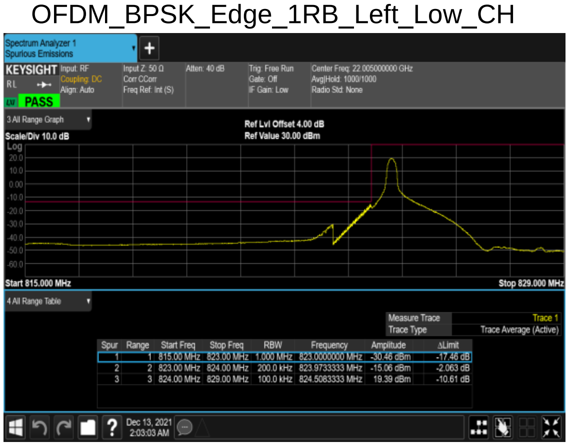
B7_N5(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



B7_N5(10M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH

B7_N5(10M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH

B7_N5(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



B7_N5(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH_**CHP_PASS**