



FCC RADIO TEST REPORT

FCC ID : XHG-RG1100
Equipment : Mobile Hotspot
Model Name : RG1100
Applicant : Franklin Technology Inc.
906 JEI Platz, 186, Gasan digital 1-ro,
Gumcheon-Gu, Seoul, South Korea, 08502
Manufacturer : Franklin Technology Inc.
906 JEI Platz, 186, Gasan digital 1-ro,
Gumcheon-Gu, Seoul, South Korea, 08502
Standard : FCC 47 CFR Part 2, 24(E), 27

The product was received on May 07, 2021 and testing was started from Jun. 15, 2021 and completed on Jul. 22, 2021. We, Sporton International Inc. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA-603-E and has been in 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. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Approved by: Louis Wu

Sporton International Inc. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)



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History of this test report

Report No.	Version	Description	Issued Date
FG140852E	01	Initial issue of report	Aug. 16, 2021

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	§2.1046	Conducted Output Power	Reporting only	-
	§27.50 (c)(10)	Effective Radiated Power (n71)	Pass	
	§24.232 (c) §27.50 (h)(2)	Equivalent Isotropic Radiated Power (n2) (n25) (n41)		
	§27.50 (d)(4)	Equivalent Isotropic Radiated Power (n66)		
3.3	§24.232 (d) §27.50 (d)(5)	Peak-to-Average Ratio	Pass	-
3.4	§2.1049	Occupied Bandwidth	Reporting only	-
3.5	§2.1051 §24.238 (a) §27.53 (g) §27.53 (h)	Conducted Band Edge Measurement (n2) (n25) (n66) (n71)	Pass	-
	§2.1051 §27.53 (m)(4)	Conducted Band Edge Measurement (n41)		
3.6	§2.1051 §24.238 (a) §27.53 (g) §27.53 (h)	Conducted Spurious Emission (n2) (n25) (n66) (n71)	Pass	-
	§2.1051 §27.53 (m)(4)	Conducted Spurious Emission (n41)		
3.7	§2.1055 §24.235 §27.54	Frequency Stability Temperature & Voltage	Pass	-



Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
4.2	§2.1053 §24.238 (a) §27.53 (g) §27.53 (h)	Radiated Spurious Emission (n2) (n25) (n66) (n71)	Pass	Under limit 20.59 dB at 10368.000 MHz
	§2.1051 §27.53 (m)(4)	Radiated Spurious Emission (n41)		

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.

Reviewed by: Avis Chuang

Report Producer: Vivian Hsu

1 General Description

1.1 Product Feature of Equipment Under Test

WCDMA/LTE/5G NR, Wi-Fi 2.4GHz 802.11b/g/n/ax, and Wi-Fi 5GHz 802.11n/ac/ax.

Product Specification subjective to this standard	
Antenna Type	WWAN: PIFA Antenna WLAN: <Ant. 4>: PIFA Antenna <Ant. 2>: PIFA Antenna
Antenna Gain	<Ant. 0> 5GNR n2: 1.697 dBi 5GNR n25: 1.697 dBi 5GNR n41: 4.095 dBi 5GNR n66: 4.127 dBi 5GNR n71: 0.737 dBi

Remark: The above EUT's information was declared by manufacturer. Please refer to Comments and Explanations in report summary.

1.2 Modification of EUT

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



1.3 Testing Location

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	Sporton Site No. TH03-HY
Test Engineer	Ivy Yeh
Temperature	24~26.5℃
Relative Humidity	49.8~55.5%

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	Sporton Site No. 03CH15-HY (TAF Code: 3786)
Test Engineer	Leo Lee, Mancy Chou and Bigshow Wang
Temperature	22.3~24.2℃
Relative Humidity	46~56%
Remark	The Radiated Spurious Emission test item subcontracted to Sporton International Inc. Wensan Laboratory.

Note: The test site complies with ANSI C63.4 2014 requirement.

FCC Designation No.: TW1190 and TW3786



1.4 Applicable 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
- ♦ FCC 47 CFR Part 2, 24(E), 27
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01.

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.
3. The TAF code is not including all the FCC KDB listed without accreditation.



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.

The measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.26 exploratory test procedures and find (X Plane for ENDC 5A_n2A, ENDC 12A_n25A, ENDC 2A_n66A, ENDC 12A_n66A;

Y Plane for ENDC 2A_n71A, ENDC 66A_n71A; Z Plane for EN DC 12A_n2A, ENDC 2A_n41A, ENDC 66A_n41A) as worst plane.

Test Items	NR Band	Bandwidth (MHz)							Modulation					RB #			Test Channel		
		5	10	15	20	30	40	50	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	1	Half	Full	L	M	H
Max. Output Power	n2	v	v	v	v	-	-	-	v	v	v	v	v	v	v	v	v	v	v
	n25	v	v	v	v	-	-	-	v	v	v	v	v	v	v	v	v	v	v
	n66	v	v	v	v	v	v	-	v	v	v	v	v	v	v	v	v	v	v
	n71	v	v	v	v	-	-	-	v	v	v	v	v	v	v	v	v	v	v
Peak-to-Average Ratio	n2	Covered by n25																	
	n25				v	-	-	-	v	v	v	v	v			v		v	
	n66				v			-	v	v	v	v	v			v		v	
	n71				v	-	-	-	v	v	v	v	v			v		v	
26dB and 99% Bandwidth	n2	Covered by n25																	
	n25	v	v	v	v	-	-	-	v	v	v	v	v			v		v	
	n66	v	v	v	v	v	v	-	v	v	v	v	v			v		v	
	n71	v	v	v	v	-	-	-	v	v	v	v	v			v		v	

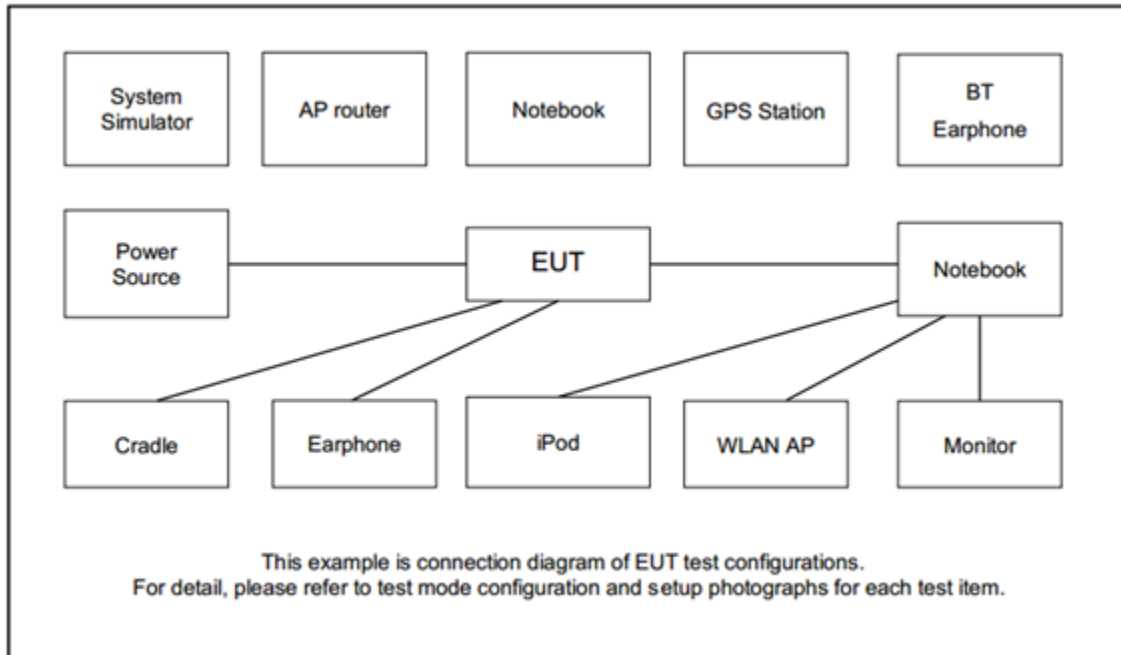


Test Items	NR Band	Bandwidth (MHz)							Modulation					RB #			Test Channel		
		5	10	15	20	30	40	50	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	1	Half	Full	L	M	H
Conducted Band Edge	n2	Covered by n25																	
	n25	v	v	v	v	-	-	-	v	v	v	v	v	v		v	v		v
	n66	v	v	v	v	v	v		v	v	v	v	v	v		v	v		v
	n71	v	v	v	v	-	-		v	v	v	v	v	v		v	v		v
Conducted Spurious Emission	n2	Covered by n25																	
	n25	v				-	-	-		v				v			v	v	v
	n66	v						-		v				v			v	v	v
	n71	v				-	-	-		v				v			v	v	v
Frequency Stability	n2	Covered by n25																	
	n25				v	-	-	-	v							v		v	
	n66				v			-	v							v		v	
	n71				v	-	-	-	v							v		v	
E.R.P / E.I.R.P	n2	v	v	v	v	-	-	-	v	v	v	v	v	Max. Power					
	n25	v	v	v	v	-	-	-	v	v	v	v	v						
	n66	v	v	v	v	v	v	-	v	v	v	v	v						
	n71	v	v	v	v	-	-	-	v	v	v	v	v						
Radiated Spurious Emission	n2	Worst Case															v		
	n25	Worst Case														v	v	v	
	n66	Worst Case														v	v	v	
	n71	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. Test combination is EN-DC 5A-n2A, EN-DC 12A-n2A, EN-DC 12A-n25A, EN-DC 2A-n66A, EN-DC 12A-n66A, EN-DC 2A-n71A, EN-DC 66A-n71A. 5. For radiated measurement, pre-scanned in two modes, DFT-s OFDM and CP OFDM. The worst cases (DFT-s OFDM) were recorded in this report. 6. Wider operating range bandwidth covers narrower one when the power is higher or the same.																		



Test Items	NR Band	Bandwidth (MHz)										Modulation					RB #			Test Channel		
		10	15	20	30	40	50	60	80	90	100	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	1	Half	Full	L	M	H
Max. Output Power	n41			v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
Peak-to-Average Ratio	n41			v								v	v	v	v	v			v		v	
26dB and 99% Bandwidth	n41			v	v	v	v	v	v	v	v	v	v	v	v	v			v		v	
Conducted Band Edge	n41			v	v	v	v	v	v	v	v	v	v	v	v	v	v		v	v		v
Conducted Spurious Emission	n41			v									v				v			v	v	v
Frequency Stability	n41			v								v							v		v	
E.R.P / E.I.R.P	n41			v	v	v	v	v	v	v	v	v	v	v	v	v	Max. Power					
Radiated Spurious Emission	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. Test combination is EN-DC 2A-n41A, EN-DC 66A-n41A. 5. For radiated measurement, pre-scanned in two modes, DFT-s OFDM and CP OFDM. The worst cases (DFT-s OFDM) were recorded in this report.																					

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8821C	N/A	N/A	Unshielded, 1.8 m
2.	System Simulator	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 4.2 dB and 10dB attenuator.

Example :

$$\begin{aligned}
 \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)}. \\
 &= 4.2 + 10 = 14.2 \text{ (dB)}
 \end{aligned}$$

2.5 Frequency List of Low/Middle/High Channels

5G NR Band n2 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	372000	376000	380000
	Frequency	1860	1880	1900
15	Channel	371500	376000	380500
	Frequency	1857.5	1880	1902.5
10	Channel	371000	376000	381000
	Frequency	1855	1880	1905
5	Channel	370500	376000	381500
	Frequency	1852.5	1880	1907.5

5G NR Band n25 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	372000	376500	381000
	Frequency	1860	1882.5	1905
15	Channel	371500	376500	381500
	Frequency	1857.5	1882.5	1907.5
10	Channel	371000	376500	382000
	Frequency	1855	1882.5	1910
5	Channel	370500	376500	382500
	Frequency	1852.5	1882.5	1912.5

5G NR Band 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
30	Channel	502200	518598	534996
	Frequency	2511	2592.99	2674.98
20	Channel	501204	518598	535998
	Frequency	2506.02	2592.99	2679.99

5G NR Band n66 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
40	Channel	346000	349000	352000
	Frequency	1730	1745	1760
30	Channel	345000	349000	353000
	Frequency	1725	1745	1765
20	Channel	344000	349000	354000
	Frequency	1720	1745	1770
15	Channel	343500	349000	354500
	Frequency	1717.5	1745	1772.5
10	Channel	343000	349000	355000
	Frequency	1715	1745	1775
5	Channel	342500	349000	355500
	Frequency	1712.5	1745	1777.5



5G NR Band n71 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	134600	136100	137600
	Frequency	673	680.5	688
15	Channel	134100	136100	138100
	Frequency	670.5	680.5	690.5
10	Channel	133600	136100	138600
	Frequency	668	680.5	693
5	Channel	133100	136100	139100
	Frequency	665.5	680.5	695.5

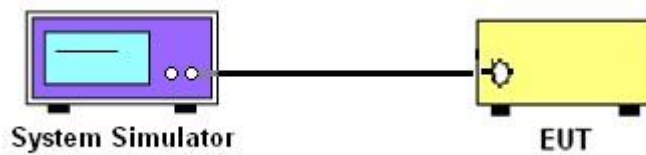
3 Conducted Test Items

3.1 Measuring Instruments

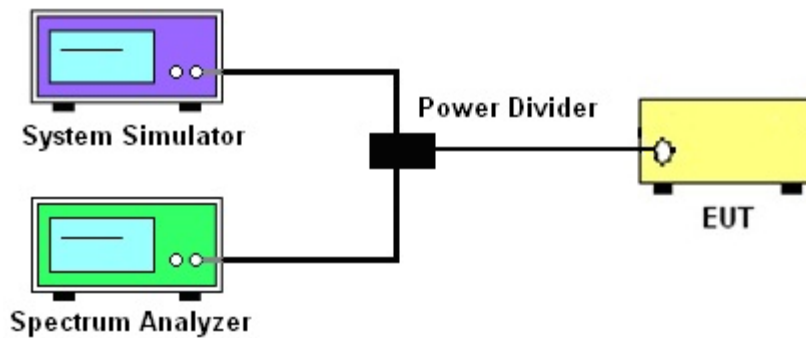
See list of measuring instruments of this test report.

3.1.1 Test Setup

3.1.2 Conducted Output Power



3.1.3 Peak-to-Average Ratio, 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 and ERP/EIRP

3.2.1 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 3 Watts for 5G NR n71

The EIRP of mobile transmitters must not exceed 2 Watts for 5G NR n2 and n25 and n41

The EIRP of mobile transmitters must not exceed 1 Watts for 5G NR n66

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

3.2.2 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 Peak-to-Average Ratio

3.3.1 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.

3.3.2 Test Procedures

The testing follows ANSI C63.26-2015 Section 5.2.6

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

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

24.238 (a)

For operations in the 1850-1910 and 1930-1990 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 1MHz bandwidth. However, in the 1 MHz bands immediately outside and adjacent to the 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 (g)

For operations in the 600MHz band and 698-746 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 100 kHz bandwidth. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

27.53 (h)

For operations in the 1710 – 1755 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 1 MHz 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 than $43 + 10 \log (P)$ 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.



3.5.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.1.

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The band edges of low and high channels for the highest RF powers were measured.
3. Set RBW $\geq$ 1% EBW in the 1MHz band immediately outside and adjacent to the band edge.
4. Beyond the 1 MHz band from the band edge, RBW=1MHz was used.
5. Set spectrum analyzer with RMS detector.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
7. Checked that all the results comply with the emission limit line.

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

For 5G NR n7, n38, n41

The other 40 dB, and 55 dB have additionally applied same calculation above.

3.6 Conducted Spurious Emission

3.6.1 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 10th harmonic.

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

For 5G NR n7, n38, n41

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

3.7 Frequency Stability

3.7.1 Description of Frequency Stability Measurement

24.235 & 27.54

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

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 20±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.

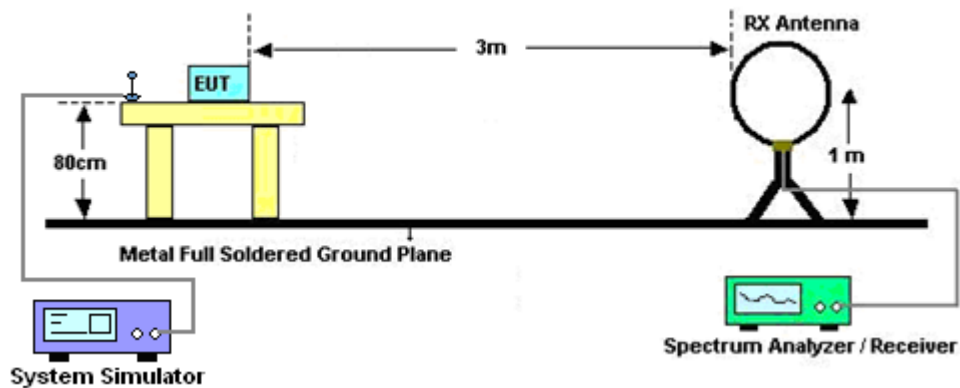
4 Radiated Test Items

4.1 Measuring Instruments

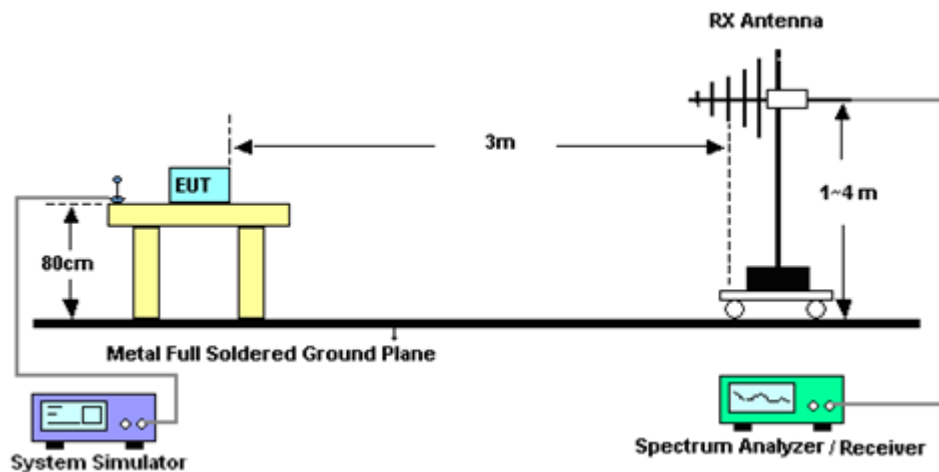
See list of measuring instruments of this test report.

4.1.1 Test Setup

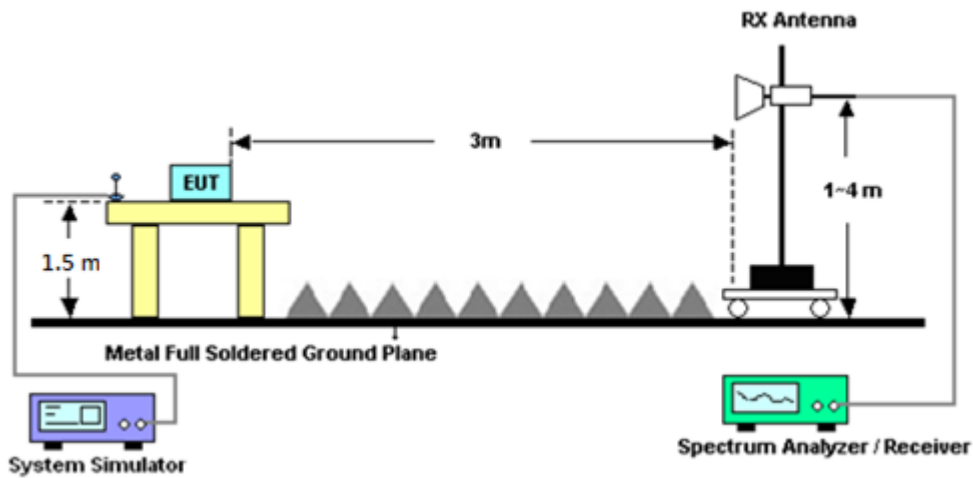
For radiated emissions below 30MHz



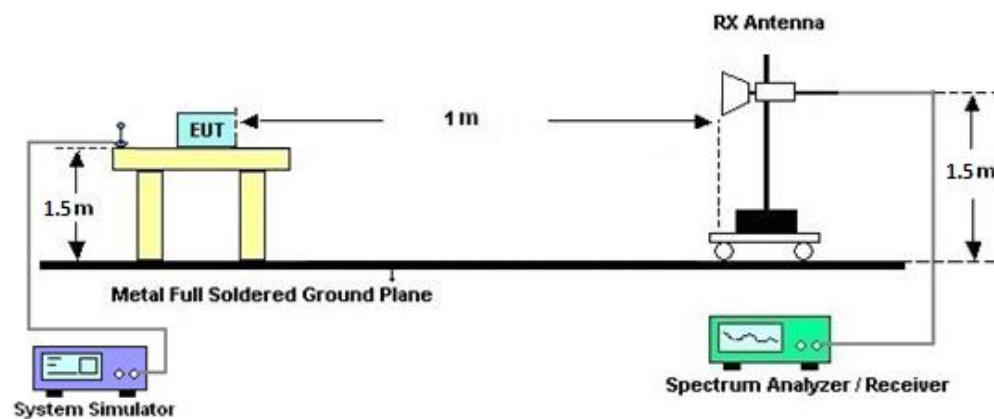
For radiated test from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



4.1.2 Test Result of Radiated Test

Please refer to Appendix B.

Note:

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.

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

4.2 Radiated Spurious Emission Measurement

4.2.1 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 $43 + 10 \log (P)$ dB.

For 5G NR 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.

4.2.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 7 and ANSI / TIA-603-E Section 2.2.12.

1. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
2. The EUT was set 3 meters from the receiving antenna, which was 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 one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
8. Taking the record of output power at antenna port.
9. Repeat step 7 to step 8 for another polarization.
10. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

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

For 5G NR n7, n38, n41

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

EIRP (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain

ERP (dBm) = EIRP - 2.15



5 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01 N-06	37059 & 01	30MHz~1GHz	Oct. 11, 2020	Jun. 21, 2021~Jun. 24, 2021	Oct. 10, 2021	Radiation (03CH15-HY)
Bilog Antenna	TESEQ	CBL6111D&00800N1D01N-06	41912&05	30MHz to 1GHz	Feb. 08, 2021	Jun. 21, 2021~Jun. 24, 2021	Feb. 07, 2022	Radiation (03CH15-HY)
Amplifier	SONOMA	310N	363440	9kHz~1GHz	Dec. 28, 2020	Jun. 21, 2021~Jun. 24, 2021	Dec. 27, 2021	Radiation (03CH15-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-02114	1-18GHz	Aug. 04, 2020	Jun. 21, 2021~Jun. 24, 2021	Aug. 03, 2021	Radiation (03CH15-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1326	1GHz~18GHz	Nov. 03, 2020	Jun. 21, 2021~Jun. 24, 2021	Nov. 02, 2021	Radiation (03CH15-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170251	18GHz- 40GHz	Dec. 02, 2020	Jun. 21, 2021~Jun. 24, 2021	Dec. 01, 2021	Radiation (03CH15-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170576	18GHz~40GHz	May 21, 2021	Jun. 21, 2021~Jun. 24, 2021	May 20, 2022	Radiation (03CH15-HY)
Preamplifier	Jet-Power	JPA0118-55-303	1710001800055006	1GHz~18GHz	May 06, 2021	Jun. 21, 2021~Jun. 24, 2021	May 05, 2022	Radiation (03CH15-HY)
Preamplifier	Keysight	83017A	MY53270195	1GHz~26.5GHz	Aug. 21, 2020	Jun. 21, 2021~Jun. 24, 2021	Aug. 20, 2021	Radiation (03CH15-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz~40GHz	Dec. 11, 2020	Jun. 21, 2021~Jun. 24, 2021	Dec. 10, 2021	Radiation (03CH15-HY)
Spectrum Analyzer	Keysight	N9038A	MY54130085	20MHz~8.4GHz	Nov. 02, 2020	Jun. 21, 2021~Jun. 24, 2021	Nov. 01, 2021	Radiation (03CH15-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200485	10Hz~44GHz	Mar. 05, 2021	Jun. 21, 2021~Jun. 24, 2021	Mar. 04, 2022	Radiation (03CH15-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Jun. 21, 2021~Jun. 24, 2021	N/A	Radiation (03CH15-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Jun. 21, 2021~Jun. 24, 2021	N/A	Radiation (03CH15-HY)
Software	Audix	E3 6.2009-8-24(k5)	RK-000451	N/A	N/A	Jun. 21, 2021~Jun. 24, 2021	N/A	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104, 102E	MY36980/4, MY9838/4PE, 508405/2E	30MHz~18G	Nov. 16, 2020	Jun. 21, 2021~Jun. 24, 2021	Nov. 15, 2021	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30MHz-40GHz	Feb. 22, 2021	Jun. 21, 2021~Jun. 24, 2021	Feb. 21, 2022	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	800740/2	30MHz-40GHz	Feb. 22, 2021	Jun. 21, 2021~Jun. 24, 2021	Feb. 21, 2022	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	9kHz~30MHz	Mar. 11, 2021	Jun. 21, 2021~Jun. 24, 2021	Mar. 10, 2022	Radiation (03CH15-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Filter	Wainwright	WLK4-1000-1530-8000-40S S	SN4	1.53G Low Pass	Jul. 03, 2020	Jun. 21, 2021~ Jun. 24, 2021	Jul. 02, 2021	Radiation (03CH15-HY)
Filter	Wainwright	WHKX12-1080-1200-15000-60ST	SN5	1.2GHz High Pass Filter	Jul. 01, 2020	Jun. 21, 2021~ Jun. 24, 2021	Jun. 30, 2021	Radiation (03CH15-HY)
Filter	Wainwright	WHKX12-2700-3000-18000-60ST	SN4	3GHz High Pass Filter	Sep. 16, 2020	Jun. 21, 2021~ Jun. 24, 2021	Sep. 15, 2021	Radiation (03CH15-HY)
Signal Generator	Anritsu	MG3694C	163401	0.1Hz~40GHz	Jan. 31, 2021	Jun. 21, 2021~ Jun. 24, 2021	Jan. 30, 2022	Radiation (03CH15-HY)
Programmable Power Supply	GW Instek	PSS-2005	EL890001	50Hz~60Hz	Oct. 05, 2020	Jun. 15, 2021~ Jul. 22, 2021	Oct. 04, 2021	Conducted (TH03-HY)
Signal Analyzer	Rohde & Schwarz	FSV3044	101048	10Hz~44GHz	Apr. 20, 2021	Jun. 15, 2021~ Jul. 22, 2021	Apr. 19, 2022	Conducted (TH03-HY)
Temperature Chamber	ESPEC	SU-241	92003713	-30℃ ~95℃	May 21, 2021	Jun. 15, 2021~ Jul. 22, 2021	May 20, 2022	Conducted (TH03-HY)
Hygrometer	Testo	608-H11	3489324	NA	Jan. 18, 2021	Jun. 15, 2021~ Jul. 22, 2021	Jan. 17, 2022	Conducted (TH03-HY)
Base Station (Measure)	Anritsu	MT8821C	6261849015	LTE	Sep. 18, 2020	Jun. 15, 2021~ Jul. 22, 2021	Sep. 17, 2021	Conducted (TH03-HY)
Base Station (Measure)	Anritsu	MT8000A	6261940327	FR1	Sep. 23, 2020	Jun. 15, 2021~ Jul. 22, 2021	Sep. 22, 2021	Conducted (TH03-HY)

6 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.98 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.92 dB
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Appendix A. Test Results of Conducted Test

Conducted Output Power (Average power) and ERP/EIRP

NR n2 Maximum Average Power [dBm] (GT - LC = 1.697 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
5	1	1	PI/2 BPSK	21.92	21.98	21.55	23.77	0.2381		
5	1	23		21.97	22.00	21.66				
5	12	6		22.06	22.07	21.68				
5	1	0		21.59	21.50	21.18				
5	1	24		21.56	21.63	21.24				
5	25	0		21.71	21.76	21.37				
5	1	1	QPSK	21.96	21.93	21.61				
5	1	23		21.93	22.01	21.63				
5	12	6		22.01	21.19	21.68				
5	1	0		21.05	21.06	20.76				
5	1	24		21.08	21.19	20.75				
5	25	0		21.18	21.23	20.92				
5	1	1	16-QAM	21.27	21.30	21.01	23.00	0.1994		
5	1	1	64-QAM	19.62	19.67	19.33				
5	1	1	256-QAM	17.32	17.40	16.98				
Limit	EIRP < 2W			Result			Pass			

NR n2 Maximum Average Power [dBm] (GT - LC = 1.697 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
10	1	1	PI/2 BPSK	22.00	21.96	21.70	23.86	0.2431		
10	1	50		21.98	22.04	21.67				
10	25	12		22.14	22.16	21.85				
10	1	0		21.68	21.59	21.37				
10	1	51		21.58	21.68	21.26				
10	50	0		21.73	21.76	21.49				
10	1	1	QPSK	22.00	22.01	21.73			23.07	0.2026
10	1	50		21.99	22.05	21.64				
10	25	12		22.16	22.14	21.86				
10	1	0		21.10	21.11	20.83				
10	1	51		21.04	21.13	20.79				
10	50	0		21.22	21.24	21.03				
10	1	1	16-QAM	21.37	21.36	21.17	23.07	0.2026		
10	1	1	64-QAM	19.70	19.70	19.48				
10	1	1	256-QAM	17.33	17.39	17.12				
Limit	EIRP < 2W			Result			Pass			



NR n2 Maximum Average Power [dBm] (GT - LC = 1.697 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
15	1	1	PI/2 BPSK	22.04	21.93	22.01	23.85	0.2425		
15	1	77		22.00	22.13	21.86				
15	36	18		22.09	22.15	21.97				
15	1	0		21.69	21.55	21.63				
15	1	78		21.61	21.75	21.44				
15	75	0		21.72	21.77	21.61				
15	1	1	QPSK	22.08	21.92	22.08				
15	1	77		22.02	22.11	21.93				
15	36	18		22.12	22.15	22.02				
15	1	0		21.17	21.07	21.27				
15	1	78		21.14	21.27	21.08				
15	75	0		21.30	21.35	21.16				
15	1	1	16-QAM	21.31	21.24	21.01	23.01	0.1998		
15	1	1	64-QAM	19.72	19.66	19.93				
15	1	1	256-QAM	17.39	17.43	17.25				
Limit	EIRP < 2W			Result			Pass			

NR n2 Maximum Average Power [dBm] (GT - LC = 1.697 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
20	1	1	PI/2 BPSK	22.07	21.76	21.98	23.85	0.2425		
20	1	104		21.98	22.06	21.69				
20	50	25		22.12	22.12	22.06				
20	1	0		21.73	21.52	21.65				
20	1	105		21.54	21.71	21.35				
20	100	0		21.74	21.75	21.64				
20	1	1	QPSK	22.15	21.94	22.04				
20	1	104		22.13	22.06	21.72				
20	50	25		22.14	22.15	22.05				
20	1	0		21.28	21.06	21.14				
20	1	105		21.25	21.22	20.85				
20	100	0		21.26	21.30	21.20				
20	1	1	16-QAM	21.30	21.22	21.17	23.00	0.1994		
20	1	1	64-QAM	19.99	19.72	19.65				
20	1	1	256-QAM	17.34	17.53	17.33				
Limit	EIRP < 2W			Result			Pass			



NR n25 Maximum Average Power [dBm] (GT - LC = 1.697 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
5	1	1	PI/2 BPSK	21.88	21.98	21.73	23.80	0.2397		
5	1	23		21.86	22.10	21.68				
5	12	6		21.94	22.04	21.82				
5	1	0		21.49	21.62	21.37				
5	1	24		21.45	21.67	21.28				
5	25	0		21.57	21.65	21.51				
5	1	1	QPSK	21.86	21.95	21.74				
5	1	23		21.89	22.10	21.75				
5	12	6		21.93	21.96	21.80				
5	1	0		21.00	21.12	20.89				
5	1	24		21.02	21.18	20.86				
5	25	0		21.10	21.13	21.00				
5	1	1	16-QAM	21.23	20.87	21.10	22.93	0.1962		
5	1	1	64-QAM	19.60	19.84	19.43				
5	1	1	256-QAM	17.21	17.21	17.07				
Limit	EIRP < 2W			Result			Pass			

NR n25 Maximum Average Power [dBm] (GT - LC = 1.697 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
10	1	1	PI/2 BPSK	21.98	21.80	21.80	23.78	0.2386		
10	1	50		21.83	22.02	21.69				
10	25	12		22.06	22.08	21.99				
10	1	0		21.57	21.44	21.40				
10	1	51		21.44	21.64	21.31				
10	50	0		21.52	21.63	21.60				
10	1	1	QPSK	21.93	21.79	21.83				
10	1	50		21.81	22.02	21.82				
10	25	12		21.92	22.03	21.96				
10	1	0		21.06	20.94	21.01				
10	1	51		20.91	21.18	20.97				
10	50	0		21.09	21.15	21.07				
10	1	1	16-QAM	21.29	21.27	21.30	23.00	0.1994		
10	1	1	64-QAM	19.54	19.58	19.53				
10	1	1	256-QAM	17.13	17.16	17.19				
Limit	EIRP < 2W			Result			Pass			



NR n25 Maximum Average Power [dBm] (GT - LC = 1.697 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
15	1	1	PI/2 BPSK	21.88	21.78	21.82	23.82	0.2408		
15	1	77		21.81	22.12	21.80				
15	36	18		21.93	22.05	22.05				
15	1	0		21.51	21.39	21.47				
15	1	78		21.41	21.67	21.31				
15	75	0		21.54	21.70	21.69				
15	1	1	QPSK	21.91	21.87	21.92				
15	1	77		21.83	22.11	21.88				
15	36	18		21.92	22.10	22.06				
15	1	0		21.02	21.00	21.09				
15	1	78		20.91	21.19	20.89				
15	75	0		21.06	21.20	21.21				
15	1	1	16-QAM	21.16	21.18	21.26	22.96	0.1976		
15	1	1	64-QAM	19.58	19.52	19.57				
15	1	1	256-QAM	17.24	17.20	17.26				
Limit	EIRP < 2W			Result			Pass			

NR n25 Maximum Average Power [dBm] (GT - LC = 1.697 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
20	1	1	PI/2 BPSK	21.86	21.77	22.03	23.87	0.2436		
20	1	104		21.68	21.99	21.67				
20	50	25		21.90	22.10	22.17				
20	1	0		21.46	21.36	21.67				
20	1	105		21.33	21.61	21.28				
20	100	0		21.51	21.66	21.71				
20	1	1	QPSK	21.88	21.89	22.06				
20	1	104		21.80	22.01	21.78				
20	50	25		21.95	22.08	22.13				
20	1	0		21.04	21.01	21.22				
20	1	105		21.00	21.08	21.02				
20	100	0		21.06	21.19	21.24				
20	1	1	16-QAM	21.07	21.13	21.25	22.95	0.1971		
20	1	1	64-QAM	19.59	19.43	19.66				
20	1	1	256-QAM	17.23	17.21	17.33				
Limit	EIRP < 2W			Result			Pass			



NR n41 Maximum Average Power [dBm] (GT - LC = 4.095 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
20	1	1	PI/2 BPSK	21.30	21.23	21.58	25.82	0.3815		
20	1	49		21.10	21.21	21.39				
20	25	12		21.36	21.38	21.72				
20	1	0		20.94	20.88	21.19				
20	1	50		20.72	20.84	21.04				
20	50	0		20.92	21.01	21.22				
20	1	1	QPSK	21.25	21.22	21.55				
20	1	49		21.10	21.20	21.44				
20	25	12		21.33	21.36	21.63				
20	1	0		20.40	20.35	20.65				
20	1	50		20.20	20.37	20.50				
20	50	0		20.40	20.50	20.68				
20	1	1	16-QAM	20.48	20.48	20.77	24.87	0.3065		
20	1	1	64-QAM	19.05	18.83	19.03				
20	1	1	256-QAM	16.65	16.72	17.03				
Limit	EIRP < 2W			Result			Pass			

NR n41 Maximum Average Power [dBm] (GT - LC = 4.095 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
30	1	1	PI/2 BPSK	21.74	21.67	21.78	25.90	0.3886		
30	1	76		21.68	21.70	21.62				
30	36	18		21.74	21.69	21.80				
30	1	0		21.27	21.26	21.39				
30	1	77		21.30	21.33	21.20				
30	75	0		21.35	21.31	21.35				
30	1	1	QPSK	21.71	21.63	21.70				
30	1	76		21.66	21.72	21.60				
30	36	18		21.72	21.65	21.67				
30	1	0		20.78	20.73	20.85				
30	1	77		20.75	20.81	20.70				
30	75	0		20.84	20.80	20.82				
30	1	1	16-QAM	21.00	20.74	21.00	25.10	0.3232		
30	1	1	64-QAM	19.23	19.29	19.41				
30	1	1	256-QAM	17.04	17.05	17.14				
Limit	EIRP < 2W			Result			Pass			



NR n41 Maximum Average Power [dBm] (GT - LC = 4.095 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
40	1	1	PI/2 BPSK	21.68	21.57	21.64	25.82	0.3815		
40	1	104		21.54	21.65	21.47				
40	50	25		21.66	21.72	21.70				
40	1	0		21.26	21.18	21.24				
40	1	105		21.13	21.24	21.11				
40	100	0		21.27	21.31	21.38				
40	1	1	QPSK	21.61	21.55	21.59				
40	1	104		21.44	21.65	21.41				
40	50	25		21.63	21.70	21.64				
40	1	0		20.77	20.66	20.70				
40	1	105		20.60	20.78	20.57				
40	100	0		20.79	20.83	20.83				
40	1	1	16-QAM	20.84	20.85	20.63	24.95	0.3122		
40	1	1	64-QAM	19.24	19.15	19.35				
40	1	1	256-QAM	17.08	17.03	16.99				
Limit	EIRP < 2W			Result			Pass			

NR n41 Maximum Average Power [dBm] (GT - LC = 4.095 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
50	1	1	PI/2 BPSK	21.40	21.17	21.18	25.50	0.3544		
50	1	131		21.09	21.38	21.20				
50	64	32		21.37	21.34	21.39				
50	1	0		20.99	20.74	20.86				
50	1	132		20.71	20.95	20.77				
50	128	0		20.90	20.90	20.94				
50	1	1	QPSK	21.35	21.17	21.19				
50	1	131		21.03	21.29	21.14				
50	64	32		21.30	21.33	21.32				
50	1	0		20.51	20.26	20.31				
50	1	132		20.19	20.46	20.27				
50	128	0		20.44	20.50	20.40				
50	1	1	16-QAM	20.63	20.22	20.33	24.73	0.2968		
50	1	1	64-QAM	18.96	18.86	18.88				
50	1	1	256-QAM	16.91	16.49	16.58				
Limit	EIRP < 2W			Result			Pass			



NR n41 Maximum Average Power [dBm] (GT - LC = 4.095 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
60	1	1	PI/2 BPSK	21.32	21.10	21.18	25.50	0.3544		
60	1	160		20.96	21.39	21.16				
60	81	40		21.25	21.40	21.36				
60	1	0		20.91	20.71	20.78				
60	1	161		20.54	20.96	20.73				
60	162	0		20.78	20.99	20.90				
60	1	1	QPSK	21.31	21.00	21.10				
60	1	160		20.90	21.26	21.11				
60	81	40		21.17	21.29	21.28				
60	1	0		20.36	20.06	20.27				
60	1	161		20.03	20.31	20.34				
60	162	0		20.28	20.34	20.48				
60	1	1	16-QAM	20.41	20.33	20.43	24.53	0.2835		
60	1	1	64-QAM	18.99	18.65	18.71				
60	1	1	256-QAM	16.61	16.38	16.65				
Limit	EIRP < 2W			Result			Pass			

NR n41 Maximum Average Power [dBm] (GT - LC = 4.095 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
80	1	1	PI/2 BPSK	21.08	20.78	21.00	25.31	0.3392		
80	1	215		20.65	20.99	20.85				
80	108	54		20.91	21.21	20.95				
80	1	0		20.67	20.44	20.56				
80	1	216		20.31	20.55	20.47				
80	216	0		20.50	20.56	20.77				
80	1	1	QPSK	20.97	20.74	20.89				
80	1	215		20.63	20.90	20.82				
80	108	54		20.90	21.02	21.11				
80	1	0		20.18	19.89	20.09				
80	1	216		19.80	20.00	20.01				
80	216	0		20.04	20.20	20.24				
80	1	1	16-QAM	20.32	20.01	20.29	24.42	0.2764		
80	1	1	64-QAM	18.65	18.27	18.60				
80	1	1	256-QAM	16.51	16.20	16.31				
Limit	EIRP < 2W			Result			Pass			



NR n41 Maximum Average Power [dBm] (GT - LC = 4.095 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
90	1	1	PI/2 BPSK	21.08	20.77	20.86	25.23	0.3330		
90	1	243		20.69	20.87	20.86				
90	120	60		20.93	20.99	21.13				
90	1	0		20.71	20.43	20.49				
90	1	244		20.27	20.49	20.43				
90	243	0		20.57	20.65	20.76				
90	1	1	QPSK	21.00	20.77	20.80				
90	1	243		20.70	20.85	20.81				
90	120	60		20.88	20.98	21.09				
90	1	0		20.09	19.82	19.92				
90	1	244		19.73	19.94	19.98				
90	243	0		20.01	20.02	20.37				
90	1	1	16-QAM	20.17	20.02	20.11	24.27	0.2670		
90	1	1	64-QAM	18.74	18.40	18.47				
90	1	1	256-QAM	16.31	16.13	16.21				
Limit	EIRP < 2W			Result			Pass			

NR n41 Maximum Average Power [dBm] (GT - LC = 4.095 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
100	1	1	PI/2 BPSK	20.99	20.66	20.71	25.11	0.3240		
100	1	271		20.55	20.85	20.76				
100	135	67		20.84	20.88	21.01				
100	1	0		20.53	20.29	20.41				
100	1	272		20.14	20.48	20.40				
100	270	0		20.45	20.55	20.68				
100	1	1	QPSK	20.92	20.73	20.79				
100	1	271		20.38	20.86	20.77				
100	135	67		20.80	20.87	20.93				
100	1	0		20.07	19.85	19.90				
100	1	272		19.73	19.99	20.00				
100	270	0		19.91	20.05	20.19				
100	1	1	16-QAM	20.12	20.01	20.05	24.22	0.2639		
100	1	1	64-QAM	18.59	18.47	18.43				
100	1	1	256-QAM	16.26	16.08	16.15				
Limit	EIRP < 2W			Result			Pass			



NR n66 Maximum Average Power [dBm] (GT - LC = 4.127 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
5	1	1	PI/2 BPSK	21.76	21.87	22.13	26.40	0.4362		
5	1	23		21.75	22.04	22.23				
5	12	6		21.86	22.02	22.27				
5	1	0		21.32	21.54	21.73				
5	1	24		21.45	21.63	21.86				
5	25	0		21.49	21.61	21.91				
5	1	1	QPSK	21.64	21.84	22.10				
5	1	23		21.73	21.98	22.19				
5	12	6		21.89	22.00	22.24				
5	1	0		20.80	21.03	21.24				
5	1	24		20.90	21.15	21.32				
5	25	0		20.96	21.08	21.37				
5	1	1	16-QAM	21.01	21.12	21.42	25.55	0.3587		
5	1	1	64-QAM	19.30	19.46	19.74				
5	1	1	256-QAM	17.32	17.21	17.42				
Limit	EIRP < 1W			Result			Pass			

NR n66 Maximum Average Power [dBm] (GT - LC = 4.127 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
10	1	1	PI/2 BPSK	21.80	21.97	22.13	26.50	0.4464		
10	1	50		21.89	22.01	22.23				
10	25	12		22.00	22.14	22.37				
10	1	0		21.38	21.58	21.76				
10	1	51		21.47	21.62	21.90				
10	50	0		21.56	21.66	21.98				
10	1	1	QPSK	21.77	21.94	22.18				
10	1	50		21.83	21.95	22.20				
10	25	12		21.95	22.02	22.33				
10	1	0		21.00	21.04	21.21				
10	1	51		21.01	21.11	21.35				
10	50	0		21.08	21.17	21.47				
10	1	1	16-QAM	21.10	21.26	21.49	25.62	0.3645		
10	1	1	64-QAM	19.40	19.62	19.77				
10	1	1	256-QAM	17.16	17.25	17.49				
Limit	EIRP < 1W			Result			Pass			



NR n66 Maximum Average Power [dBm] (GT - LC = 4.127 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
15	1	1	PI/2 BPSK	21.96	22.06	22.12	26.35	0.4312		
15	1	77		22.02	22.00	22.21				
15	36	18		22.00	22.09	22.22				
15	1	0		21.52	21.74	21.75				
15	1	78		21.64	21.59	21.81				
15	75	0		21.58	21.70	21.83				
15	1	1	QPSK	21.86	22.12	22.10				
15	1	77		21.91	21.96	22.21				
15	36	18		21.94	22.12	22.20				
15	1	0		21.04	21.21	21.22				
15	1	78		21.13	21.09	21.28				
15	75	0		21.10	21.26	21.30				
15	1	1	16-QAM	21.20	21.42	21.40	25.55	0.3587		
15	1	1	64-QAM	19.53	19.76	19.73				
15	1	1	256-QAM	17.32	17.41	17.44				
Limit	EIRP < 1W			Result			Pass			

NR n66 Maximum Average Power [dBm] (GT - LC = 4.127 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
20	1	1	PI/2 BPSK	21.83	22.04	22.03	26.36	0.4322		
20	1	104		21.96	21.95	22.17				
20	50	25		22.07	22.17	22.21				
20	1	0		21.51	21.62	21.65				
20	1	105		21.59	21.55	21.83				
20	100	0		21.68	21.72	21.82				
20	1	1	QPSK	21.85	22.00	22.01				
20	1	104		21.99	21.94	22.16				
20	50	25		22.02	22.14	22.23				
20	1	0		21.01	21.17	21.08				
20	1	105		21.09	21.07	21.40				
20	100	0		21.17	21.23	21.41				
20	1	1	16-QAM	21.16	21.30	21.25	25.43	0.3489		
20	1	1	64-QAM	19.43	19.61	19.66				
20	1	1	256-QAM	17.22	17.37	17.30				
Limit	EIRP < 1W			Result			Pass			



NR n66 Maximum Average Power [dBm] (GT - LC = 4.127 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
30	1	1	PI/2 BPSK	22.06	22.09	22.32	26.60	0.4568		
30	1	158		22.00	22.35	22.22				
30	80	40		22.14	22.31	22.44				
30	1	0		21.71	21.72	21.93				
30	1	159		21.63	21.98	21.84				
30	160	0		21.76	21.90	21.96				
30	1	1	QPSK	22.13	22.15	22.30				
30	1	158		22.12	22.30	22.33				
30	80	40		22.16	22.17	22.47				
30	1	0		21.32	21.18	21.55				
30	1	159		21.34	21.42	21.49				
30	160	0		21.32	21.37	21.51				
30	1	1	16-QAM	21.44	21.31	21.64	25.77	0.3773		
30	1	1	64-QAM	19.78	19.64	20.01				
30	1	1	256-QAM	17.53	17.40	17.65				
Limit	EIRP < 1W			Result			Pass			

NR n66 Maximum Average Power [dBm] (GT - LC = 4.127 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
40	1	1	PI/2 BPSK	21.97	22.04	22.01	26.54	0.4505		
40	1	214		22.00	22.24	22.21				
40	108	54		22.18	22.32	22.36				
40	1	0		21.57	21.70	21.64				
40	1	215		21.63	21.86	21.85				
40	216	0		21.76	21.81	21.90				
40	1	1	QPSK	22.01	22.03	22.23				
40	1	214		22.05	22.23	22.30				
40	108	54		22.15	22.29	22.41				
40	1	0		21.11	21.13	21.38				
40	1	215		21.13	21.17	21.43				
40	216	0		21.27	21.40	21.47				
40	1	1	16-QAM	21.17	21.30	21.50	25.63	0.3653		
40	1	1	64-QAM	19.50	19.53	19.78				
40	1	1	256-QAM	17.42	17.61	17.73				
Limit	EIRP < 1W			Result			Pass			



NR n71 Maximum Average Power [dBm] (GT - LC = -0.737 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP(W)		
5	1	1	PI/2 BPSK	23.32	23.01	23.04	20.48	0.1118		
5	1	23		23.21	22.91	22.87				
5	12	6		23.37	23.09	23.00				
5	1	0		22.85	22.60	22.53				
5	1	24		22.75	22.42	22.34				
5	25	0		22.86	22.60	22.50				
5	1	1	QPSK	23.31	22.92	22.91				
5	1	23		23.12	22.89	22.74				
5	12	6		23.27	23.02	22.89				
5	1	0		22.31	22.01	22.02				
5	1	24		22.20	22.00	21.83				
5	25	0		22.39	22.12	21.99				
5	1	1	16-QAM	22.48	22.13	22.11	19.59	0.0911		
5	1	1	64-QAM	20.78	20.51	20.45				
5	1	1	256-QAM	18.74	18.49	18.33				
Limit	ERP < 3W			Result			Pass			

NR n71 Maximum Average Power [dBm] (GT - LC = -0.737 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP(W)		
10	1	1	PI/2 BPSK	23.28	23.01	22.91	20.39	0.1095		
10	1	50		22.95	22.94	22.73				
10	25	12		23.23	23.07	22.94				
10	1	0		22.81	22.61	22.52				
10	1	51		22.54	22.54	22.34				
10	50	0		22.84	22.64	22.51				
10	1	1	QPSK	23.18	22.91	22.88				
10	1	50		22.89	22.90	22.71				
10	25	12		23.18	23.02	22.91				
10	1	0		22.30	22.00	21.92				
10	1	51		22.02	21.99	21.80				
10	50	0		22.26	22.11	21.93				
10	1	1	16-QAM	22.47	22.17	22.02	19.58	0.0908		
10	1	1	64-QAM	20.76	20.43	20.31				
10	1	1	256-QAM	18.65	18.25	18.23				
Limit	ERP < 3W			Result			Pass			



NR n71 Maximum Average Power [dBm] (GT - LC = -0.737 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP(W)		
15	1	1	PI/2 BPSK	23.52	23.21	23.12	20.63	0.1157		
15	1	77		23.14	23.12	22.83				
15	36	18		23.27	23.14	23.01				
15	1	0		23.11	22.80	22.60				
15	1	78		22.68	22.59	22.45				
15	75	0		22.85	22.74	22.61				
15	1	1	QPSK	23.40	23.07	22.96				
15	1	77		23.06	22.97	22.81				
15	36	18		23.28	23.13	22.99				
15	1	0		22.52	22.19	22.04				
15	1	78		22.16	22.01	21.90				
15	75	0		22.43	22.23	22.11				
15	1	1	16-QAM	22.68	22.30	22.18	19.79	0.0953		
15	1	1	64-QAM	20.94	20.62	20.48				
15	1	1	256-QAM	18.72	18.51	18.41				
Limit	ERP < 3W			Result			Pass			

NR n71 Maximum Average Power [dBm] (GT - LC = -0.737 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP(W)		
20	1	1	PI/2 BPSK	23.46	23.25	23.16	20.57	0.1141		
20	1	104		23.04	22.92	22.80				
20	50	25		23.23	23.15	23.07				
20	1	0		23.10	22.81	22.76				
20	1	105		22.60	22.57	22.48				
20	100	0		22.74	22.70	22.65				
20	1	1	QPSK	23.38	23.11	23.07				
20	1	104		22.86	22.89	22.76				
20	50	25		23.21	23.12	23.08				
20	1	0		22.51	22.24	22.21				
20	1	105		22.02	22.00	21.92				
20	100	0		22.29	22.21	22.20				
20	1	1	16-QAM	22.62	22.36	22.28	19.73	0.0940		
20	1	1	64-QAM	20.91	20.70	20.61				
20	1	1	256-QAM	18.76	18.50	18.41				
Limit	ERP < 3W			Result			Pass			

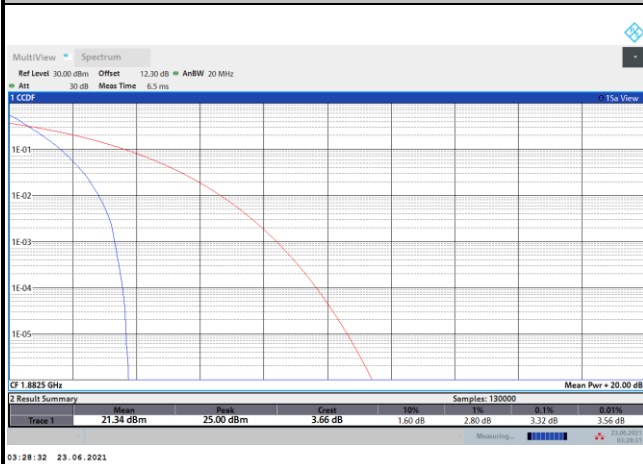
**FR1 n25****Peak-to-Average Ratio**

Mode	FR1 n25 / 20MHz / DFT-S OFDM				
Mod.	PI/2 BPSK	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	3.32	3.92	4.84	5.30	PASS
Mode	FR1 n25 / 20MHz / DFT-S OFDM				
Mod.	256QAM				Limit: 13dB
RB Size	Full RB				Result
Middle CH	6.14				PASS

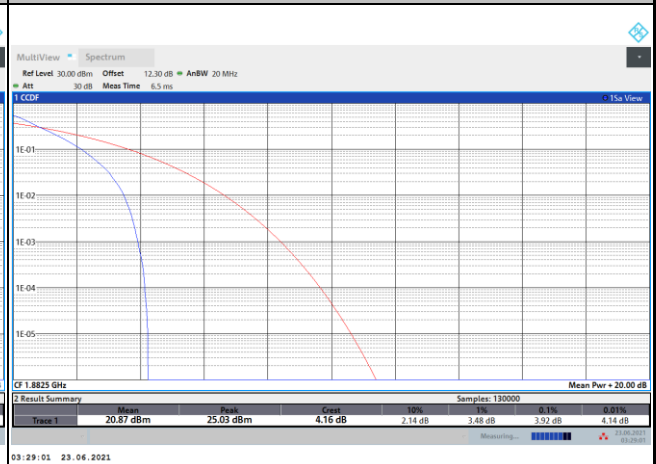


FR1 n25 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

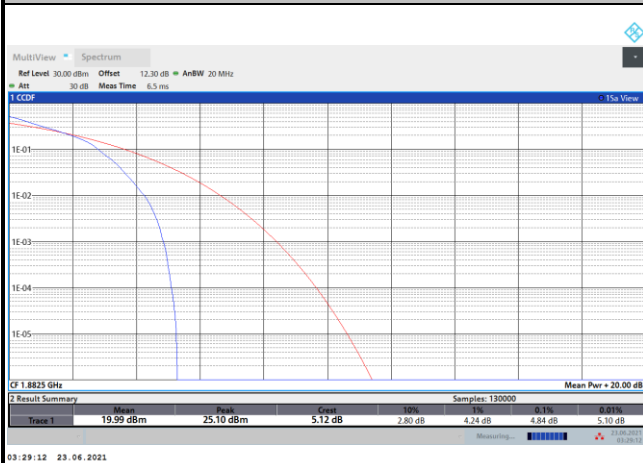
PI/2 BPSK



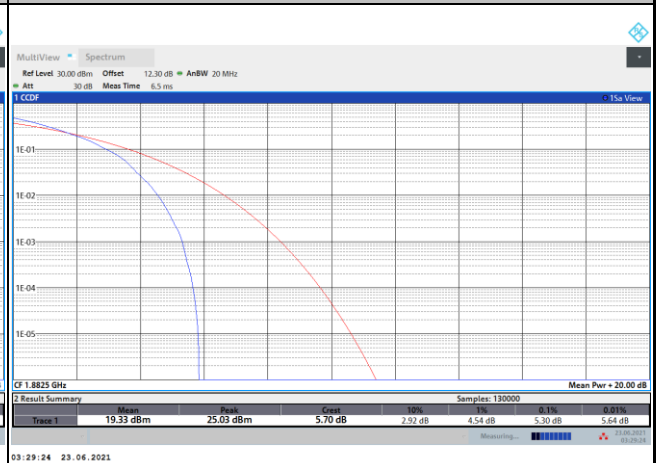
QPSK



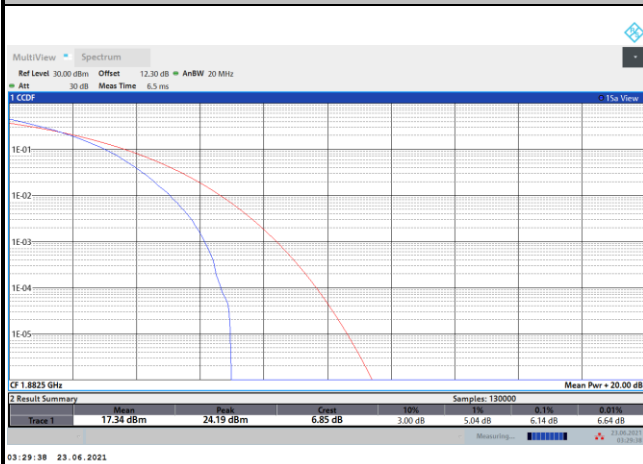
16QAM



64QAM



256QAM



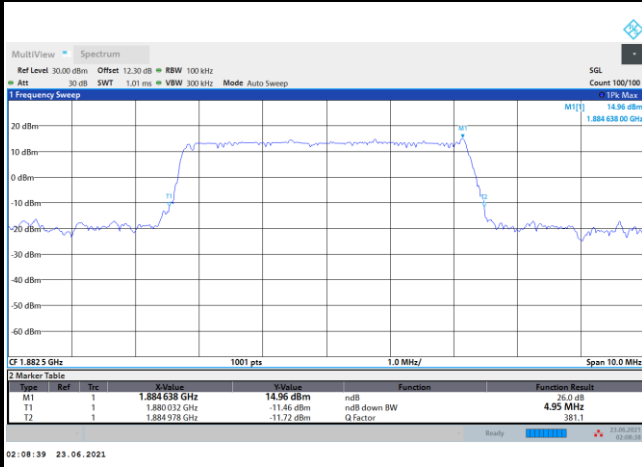
**26dB Bandwidth**

Mode	FR1 n25 : 26dB BW(MHz) / DFT-S OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	PI/2 BPSK		PI/2 BPSK		PI/2 BPSK		PI/2 BPSK	
Middle CH	4.95		9.35		14.36		18.66	

Mode	FR1 n25 : 26dB BW(MHz) / CP OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	5.08	4.97	10.17	10.03	15.13	15.02	20.06	19.90
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	4.97	4.97	10.01	9.85	15.04	14.89	20.10	19.90

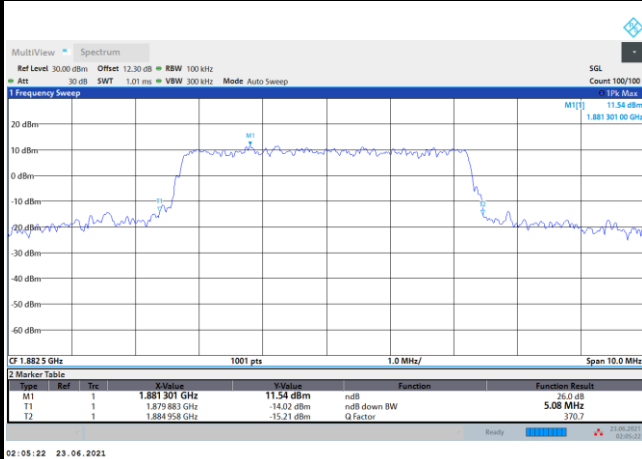
FR1 n25 / 5MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

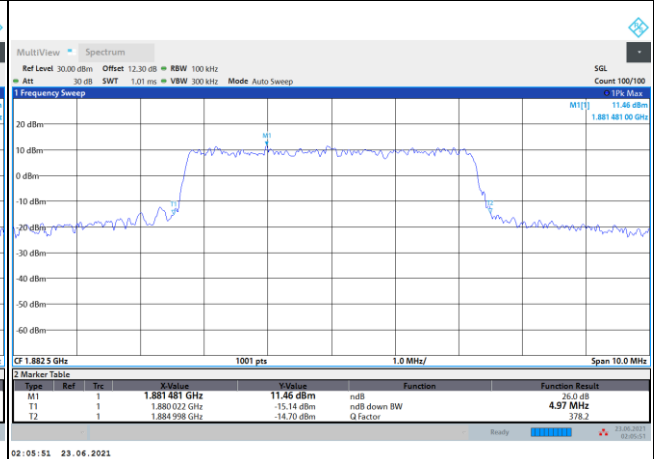


FR1 n25 / 5MHz / CP OFDM / Middle Channel / Full RB

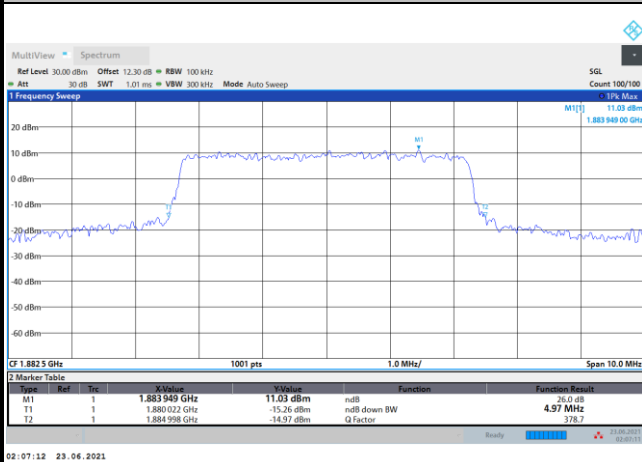
QPSK



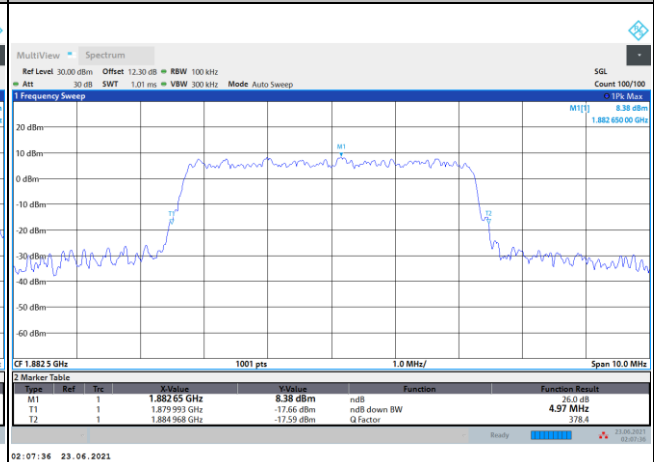
16QAM



64QAM

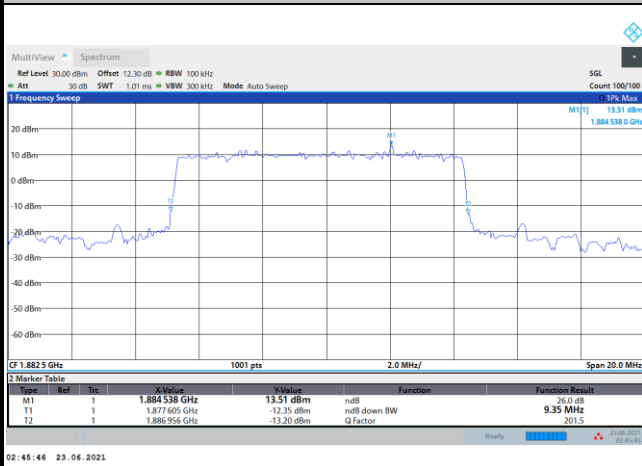


256QAM



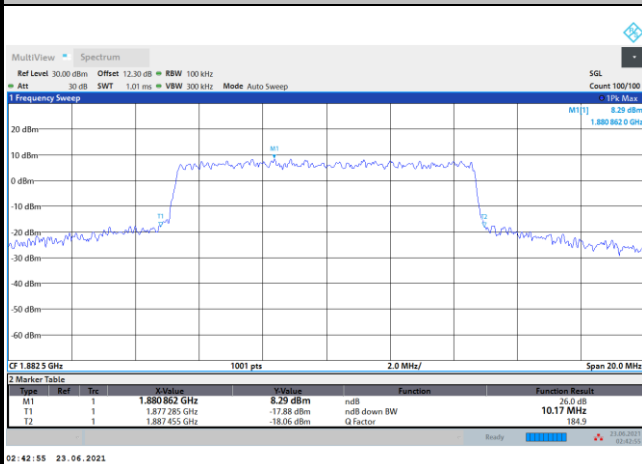
FR1 n25 / 10MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

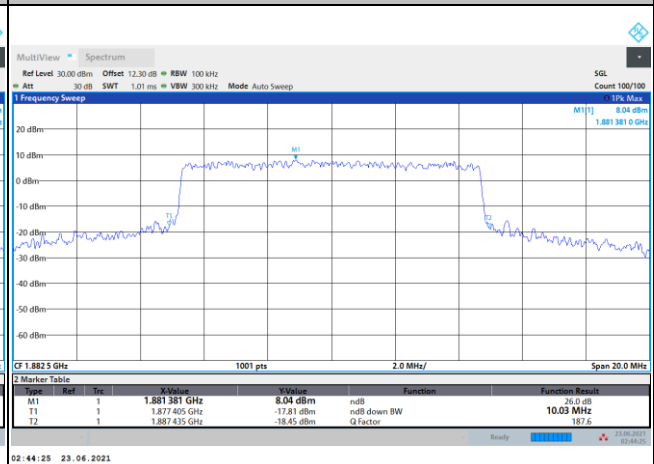


FR1 n25 / 10MHz / CP OFDM / Middle Channel / Full RB

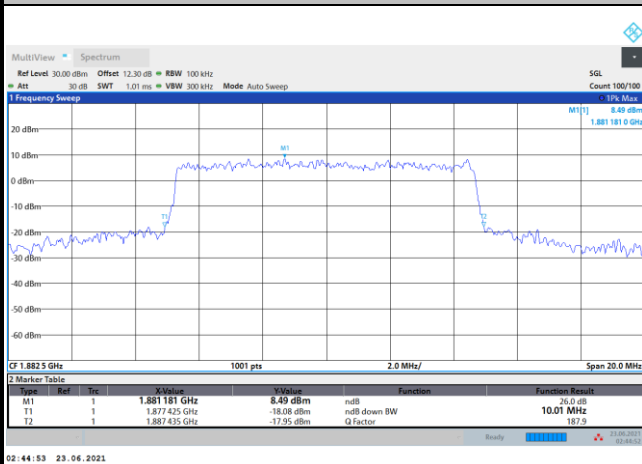
QPSK



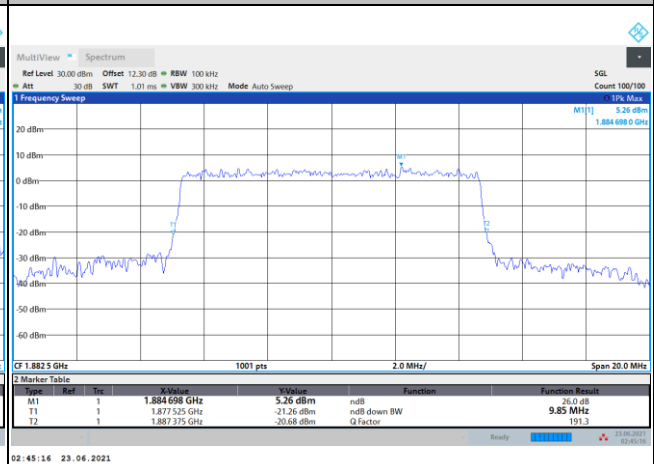
16QAM



64QAM

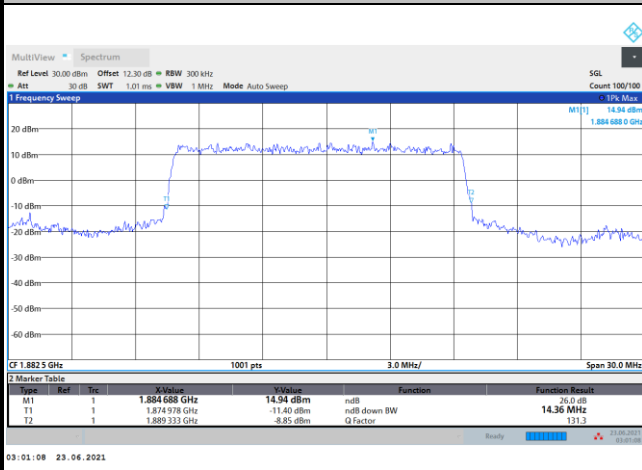


256QAM



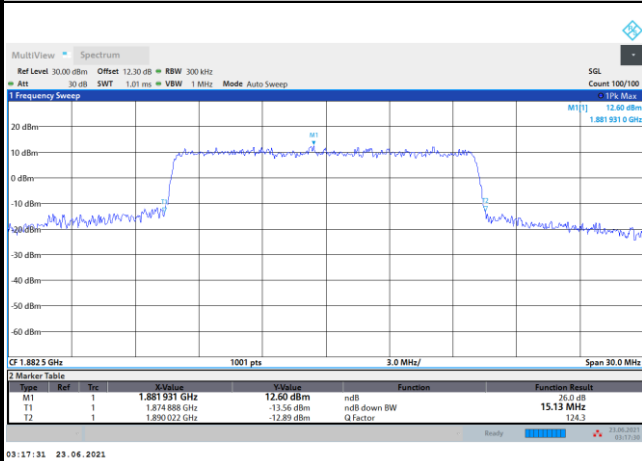
FR1 n25 / 15MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

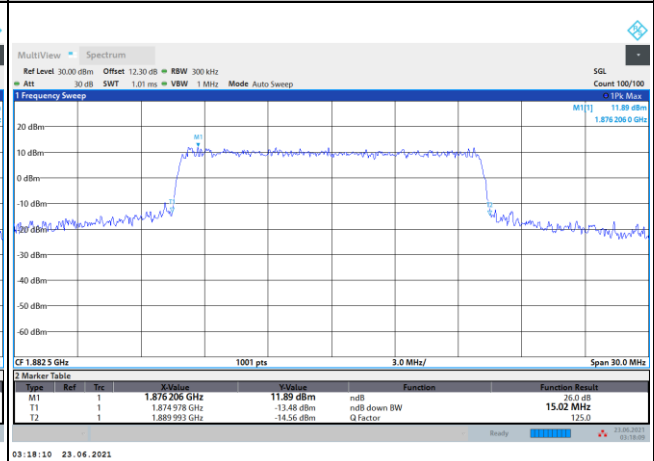


FR1 n25 / 15MHz / CP OFDM / Middle Channel / Full RB

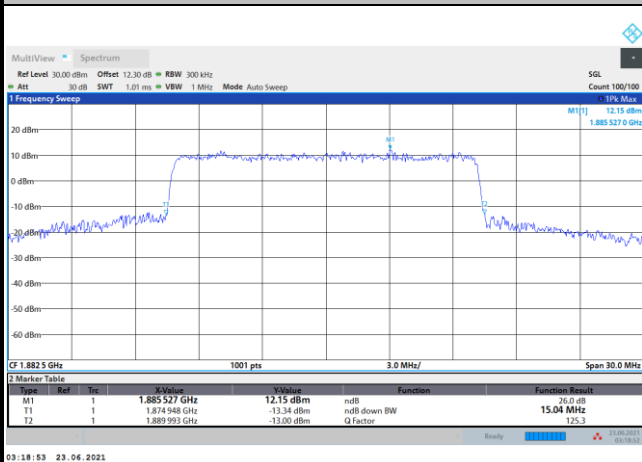
QPSK



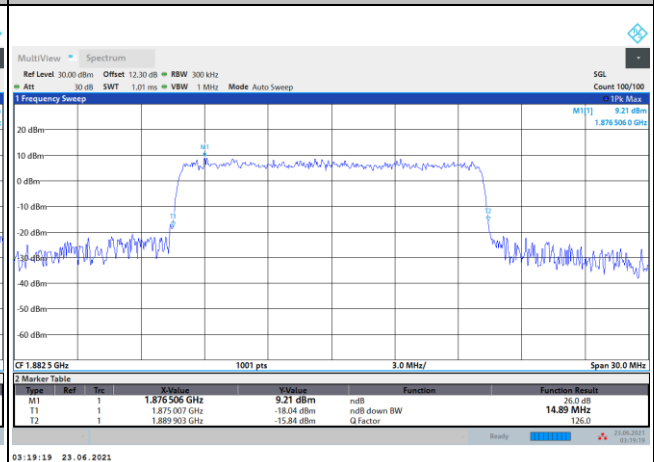
16QAM

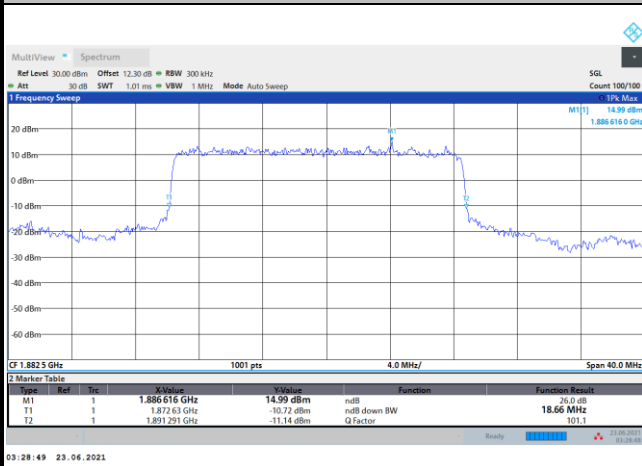
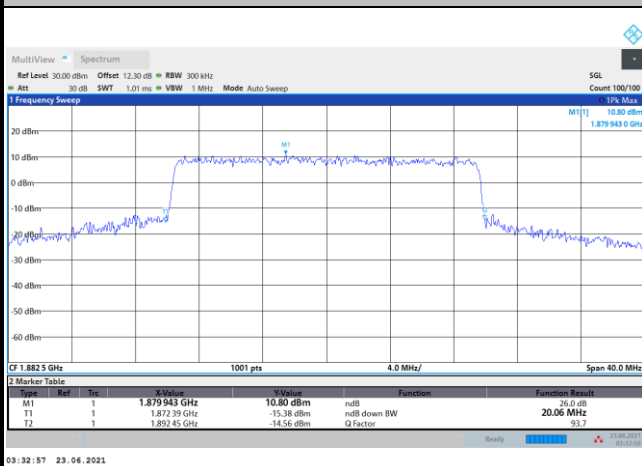
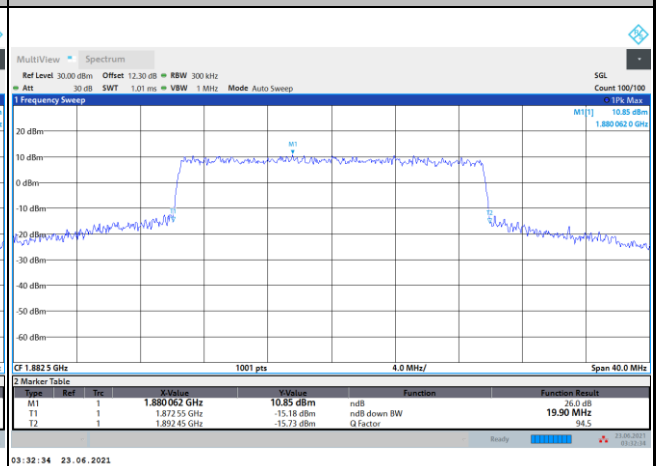
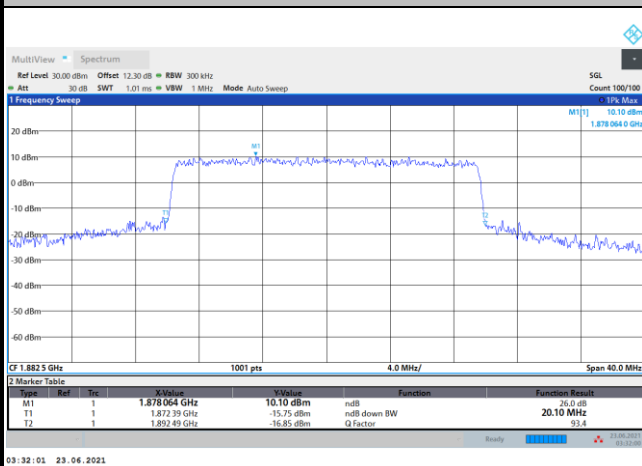
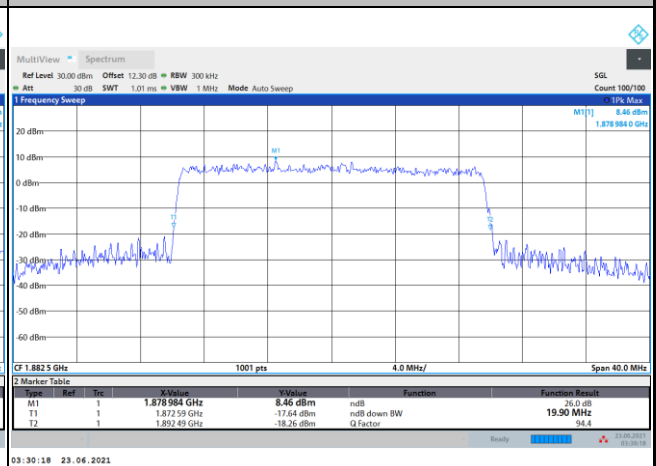


64QAM



256QAM

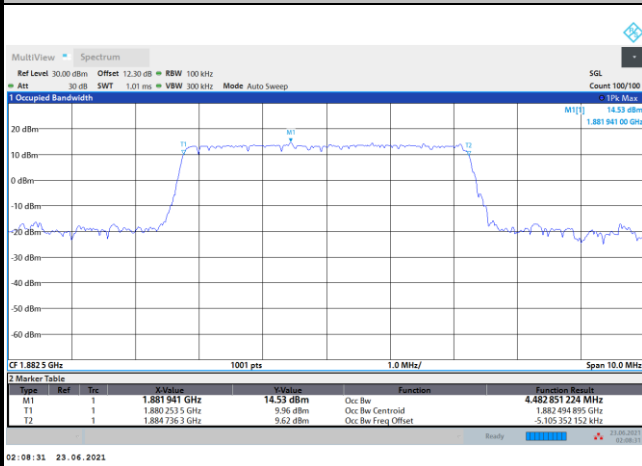
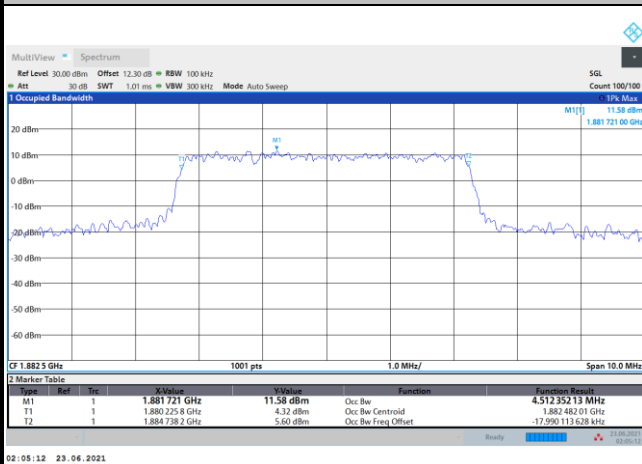
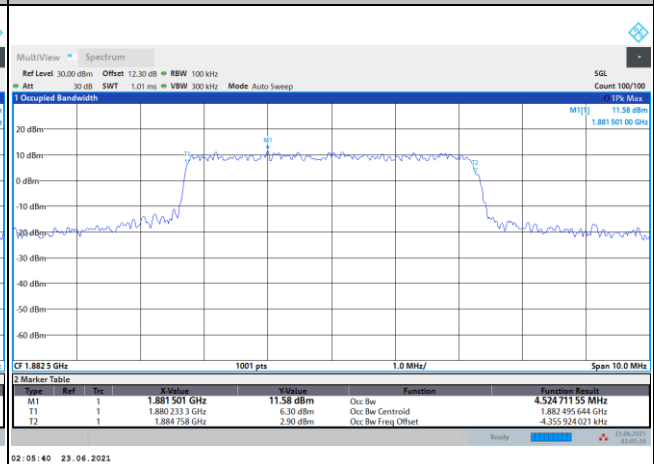
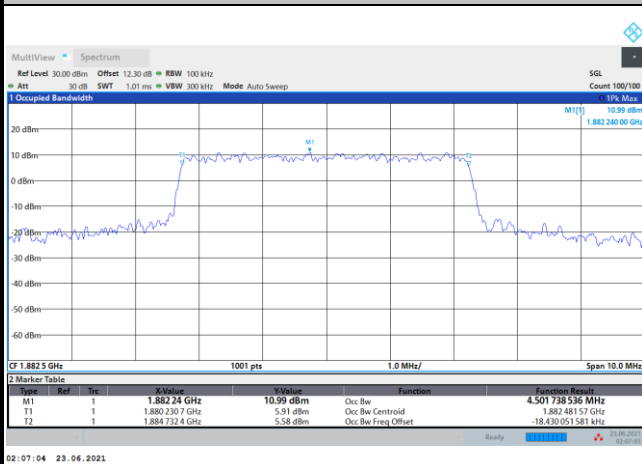
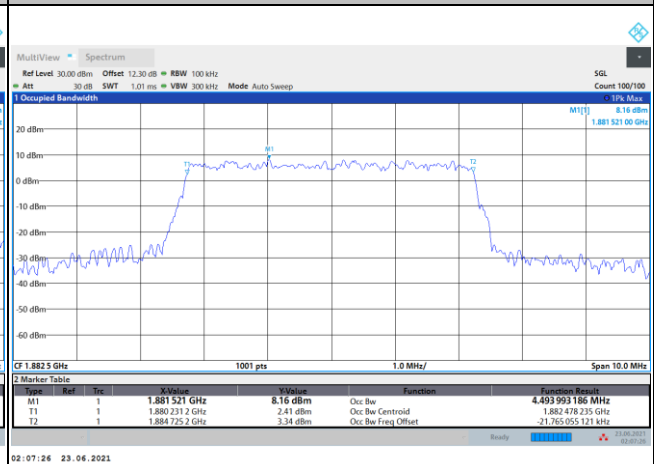


FR1 n25 / 20MHz / DFT-S OFDM / Middle Channel / Full RB
PI/2 BPSK

FR1 n25 / 20MHz / CP OFDM / Middle Channel / Full RB
QPSK

16QAM

64QAM

256QAM


**Occupied Bandwidth**

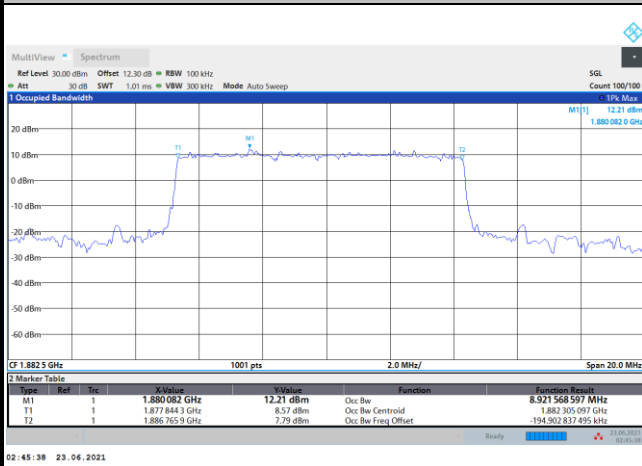
Mode	FR1 n25 : 99%OBW(MHz) / DFT-S OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	PI/2 BPSK		PI/2 BPSK		PI/2 BPSK		PI/2 BPSK	
Middle CH	4.48		8.92		13.49		17.87	

Mode	FR1 n25 : 99%OBW (MHz) / CP OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	4.51	4.52	9.29	9.30	14.18	14.17	18.97	19.00
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	4.50	4.49	9.28	9.27	14.22	14.14	18.95	18.97

FR1 n25 / 5MHz / DFT-S OFDM / Middle Channel / Full RB
PI/2 BPSK

FR1 n25 / 5MHz / CP OFDM / Middle Channel / Full RB
QPSK

16QAM

64QAM

256QAM


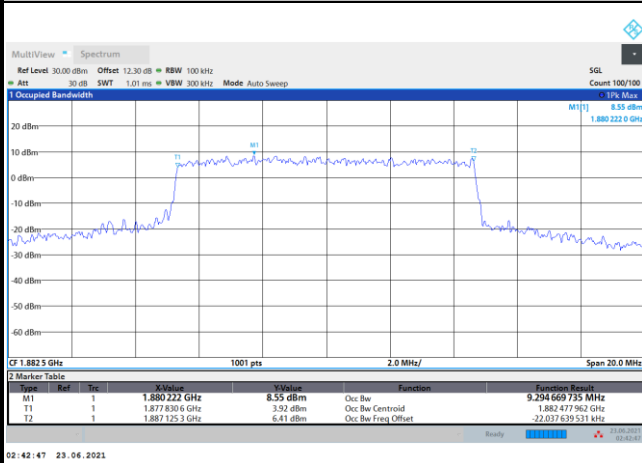
FR1 n25 / 10MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

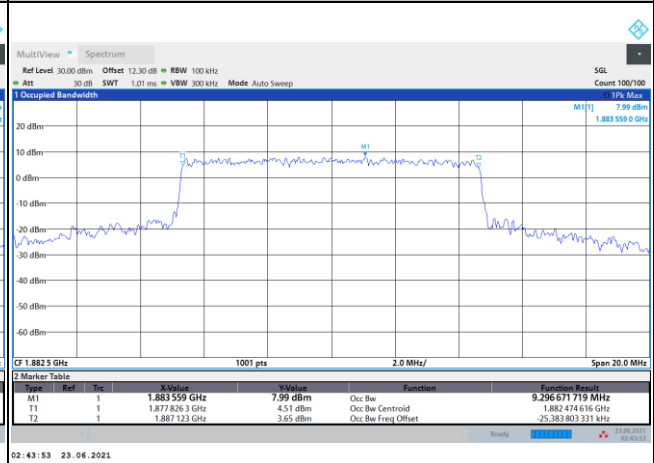


FR1 n25 / 10MHz / CP OFDM / Middle Channel / Full RB

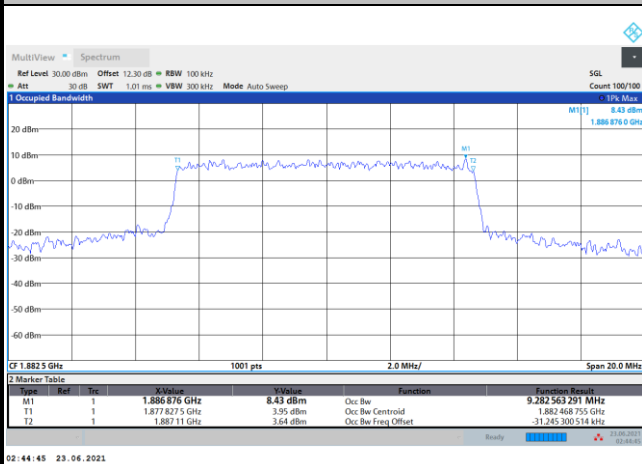
QPSK



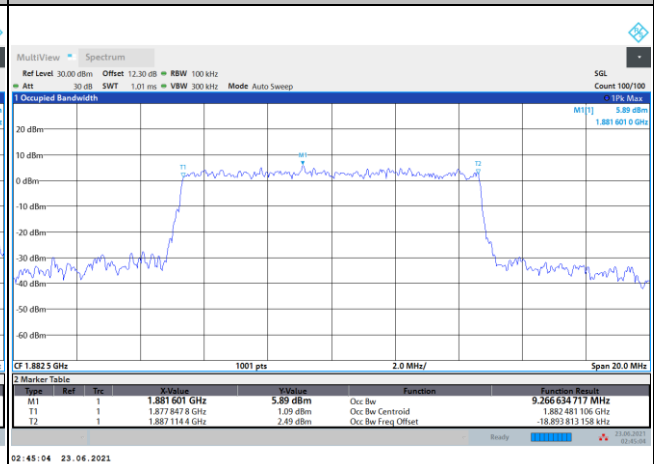
16QAM

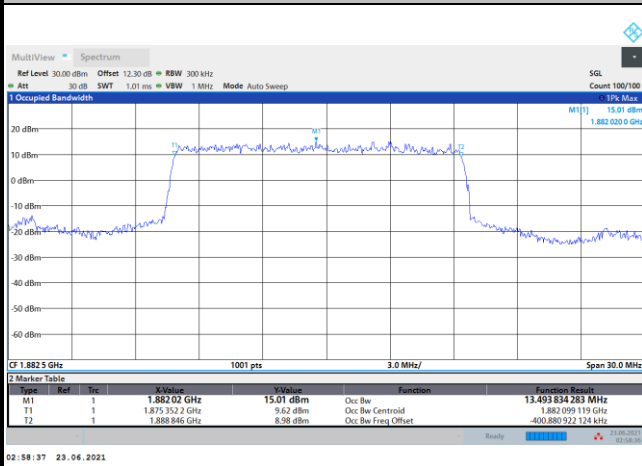
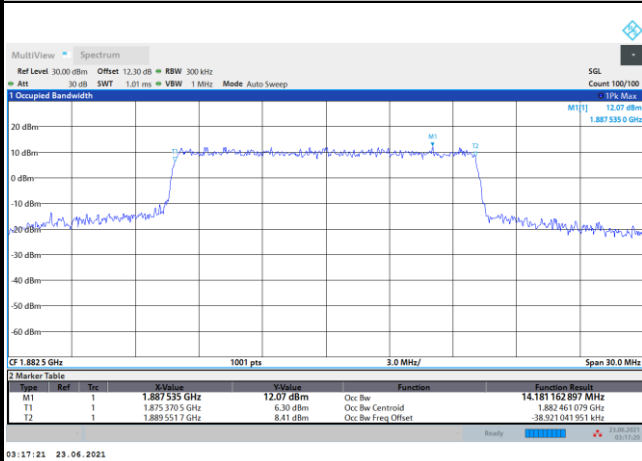
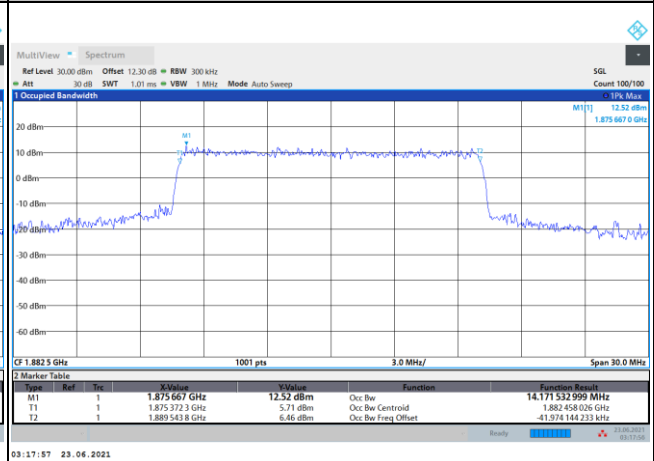
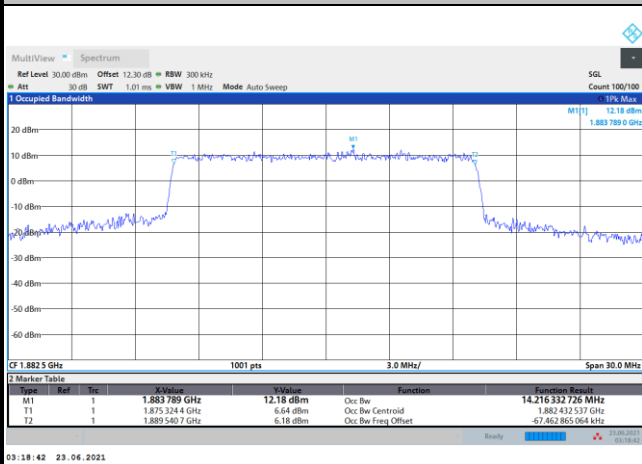
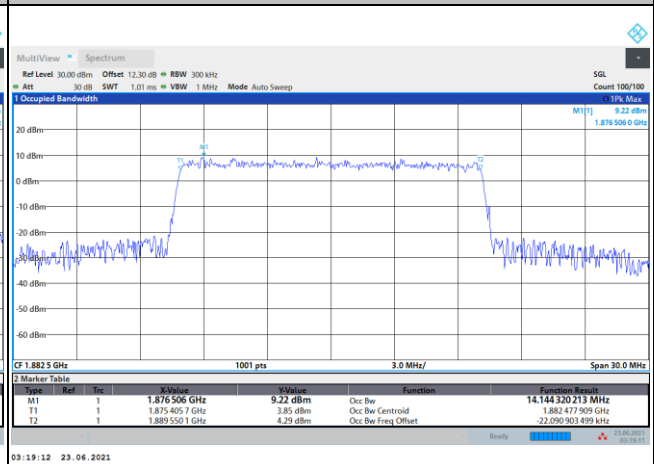


64QAM



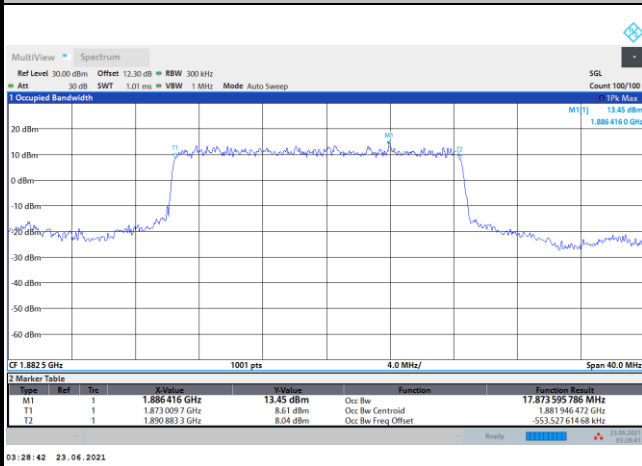
256QAM



FR1 n25 / 15MHz / DFT-S OFDM / Middle Channel / Full RB
PI/2 BPSK

FR1 n25 / 15MHz / CP OFDM / Middle Channel / Full RB
QPSK

16QAM

64QAM

256QAM


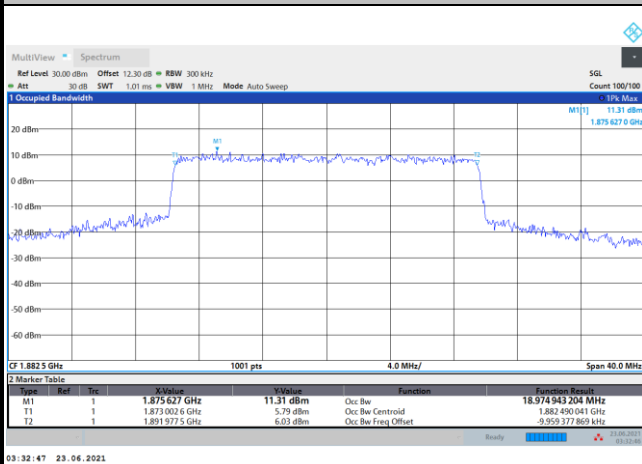
FR1 n25 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

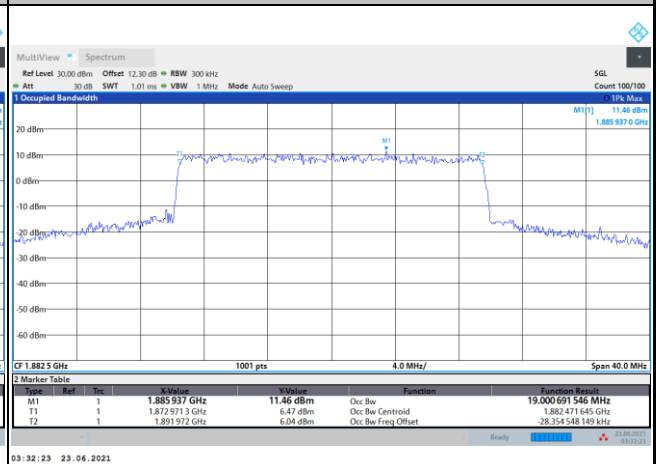


FR1 n25 / 20MHz / CP OFDM / Middle Channel / Full RB

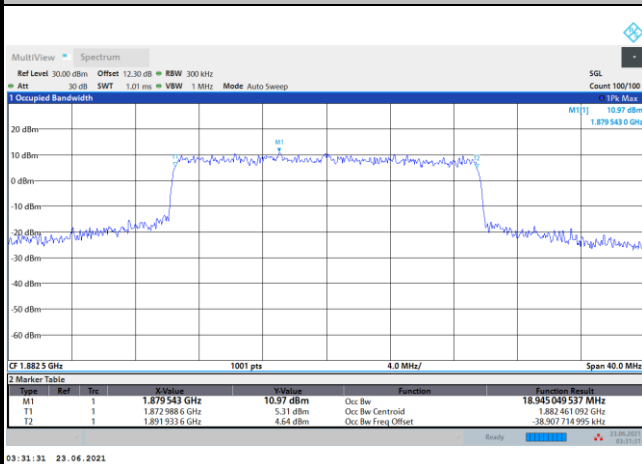
QPSK



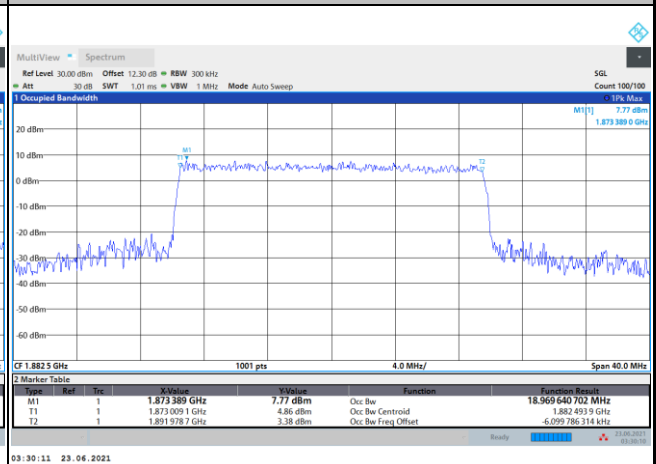
16QAM



64QAM

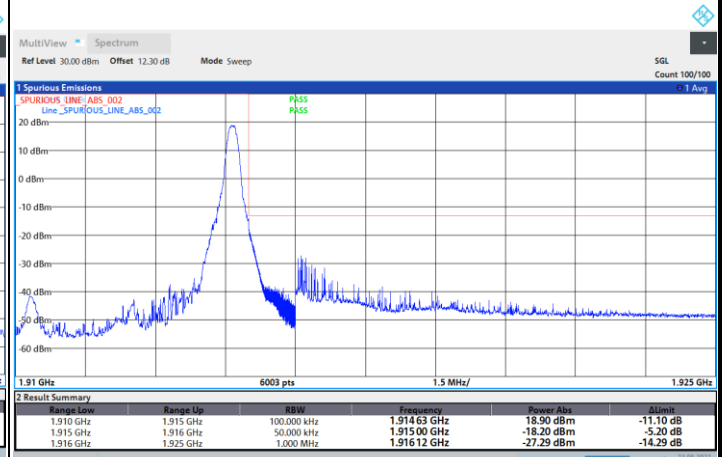
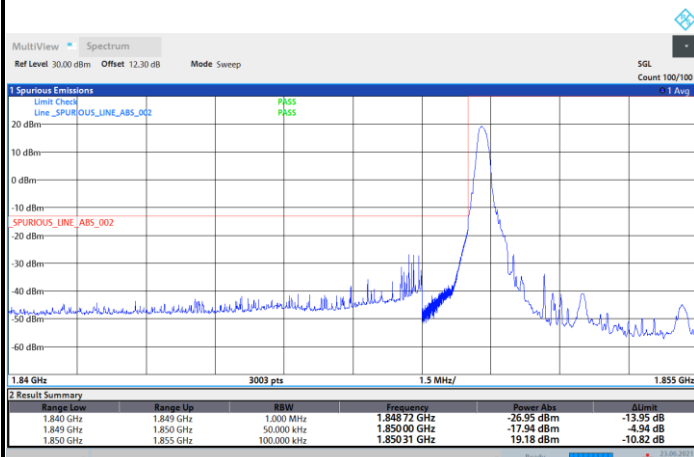
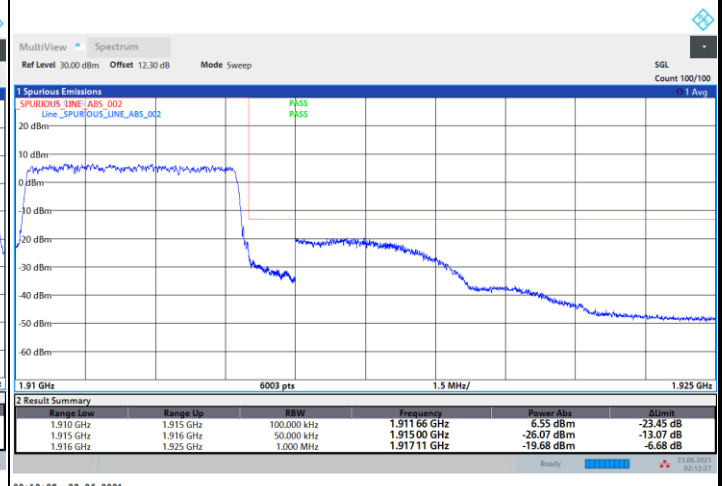
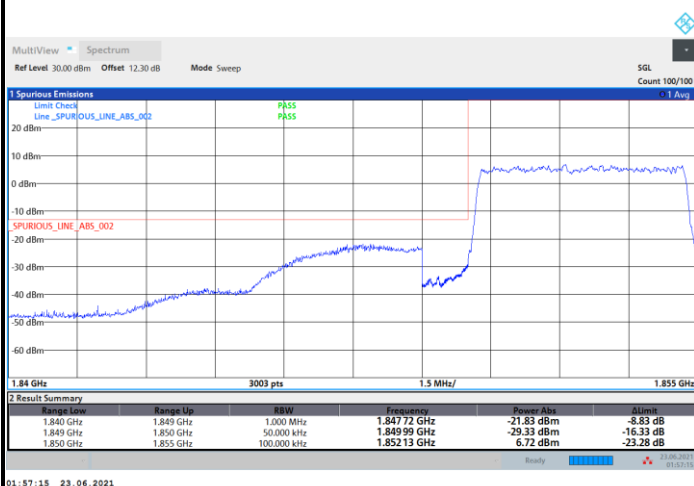


256QAM



**Conducted Band Edge**

FR1 n25 / 5MHz / DFT-S OFDM / PI/2 BPSK

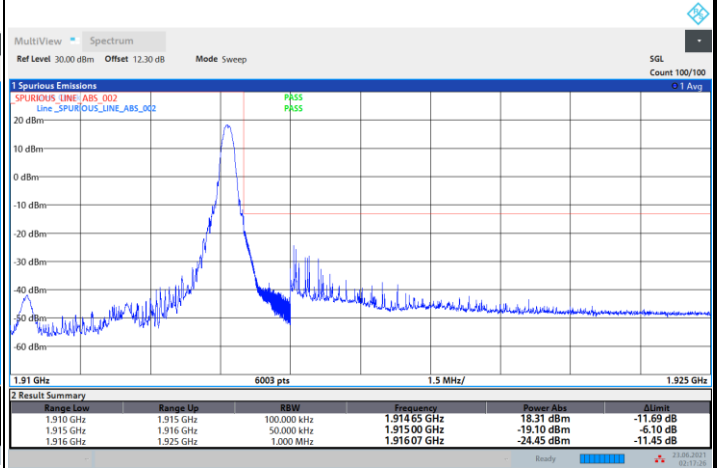
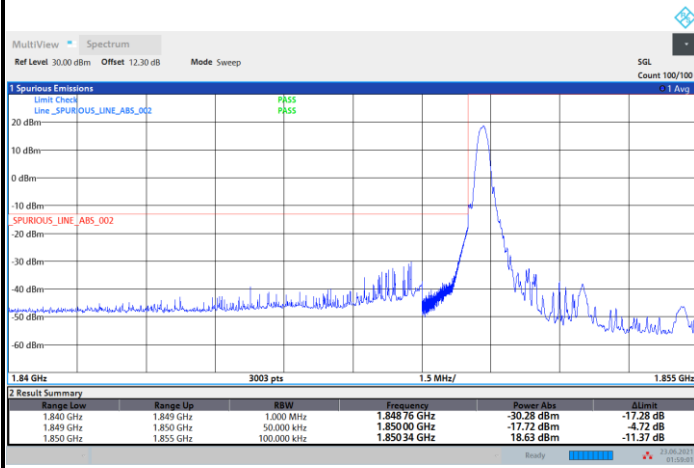
Lowest Band Edge / 1RB0**Highest Band Edge / 1RBmax****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**



FR1 n25 / 5MHz / DFT-S OFDM / QPSK

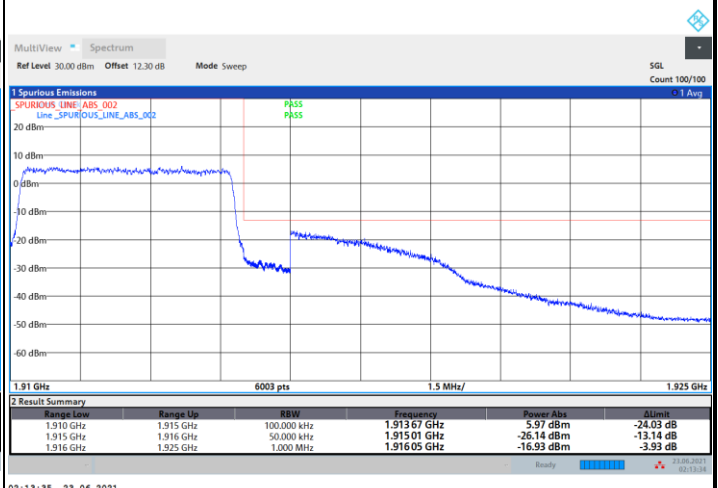
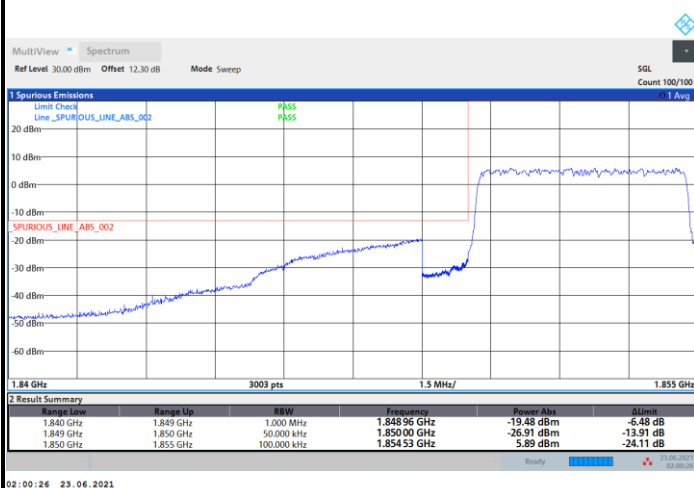
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

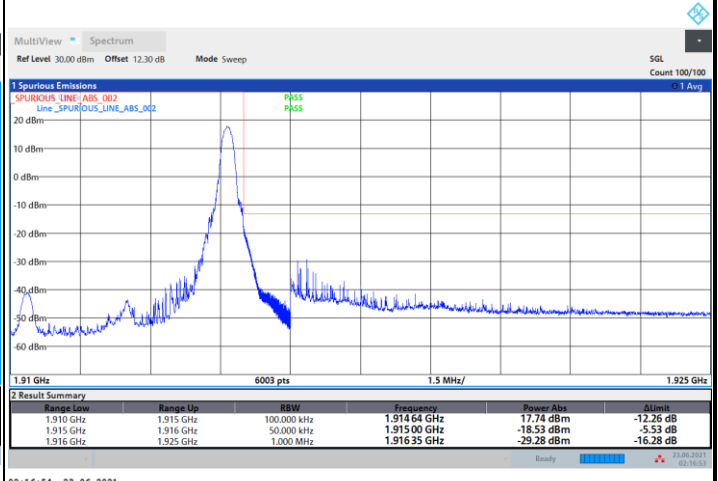
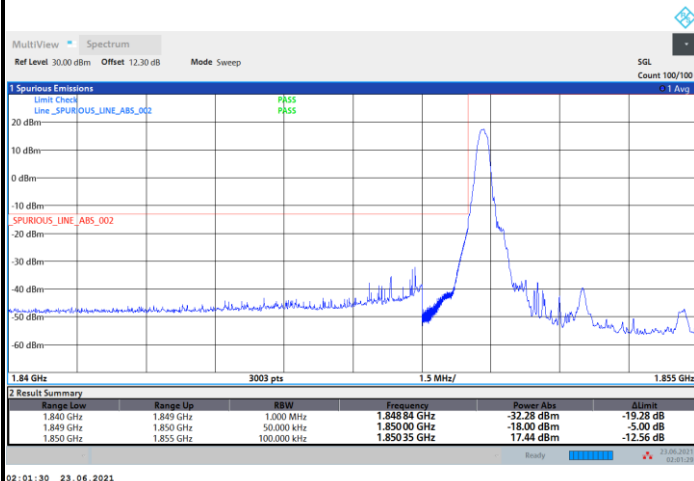




FR1 n25 / 5MHz / DFT-S OFDM / 16QAM

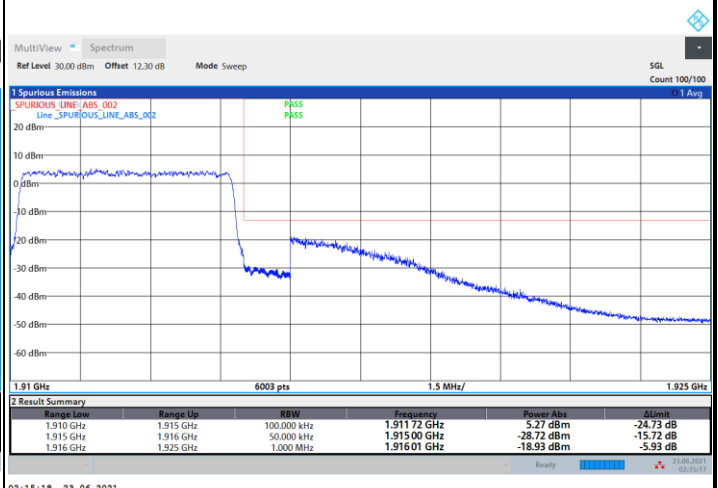
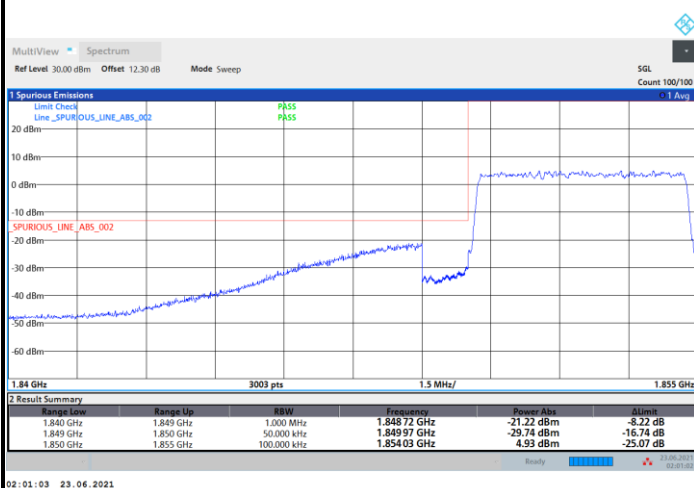
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

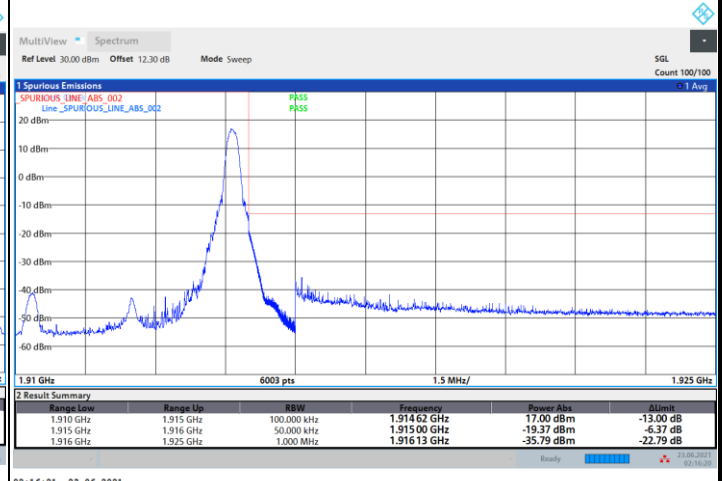
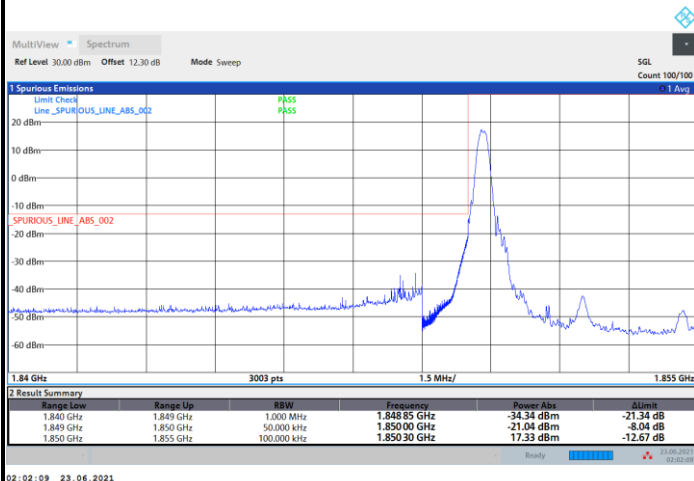




FR1 n25 / 5MHz / DFT-S OFDM / 64QAM

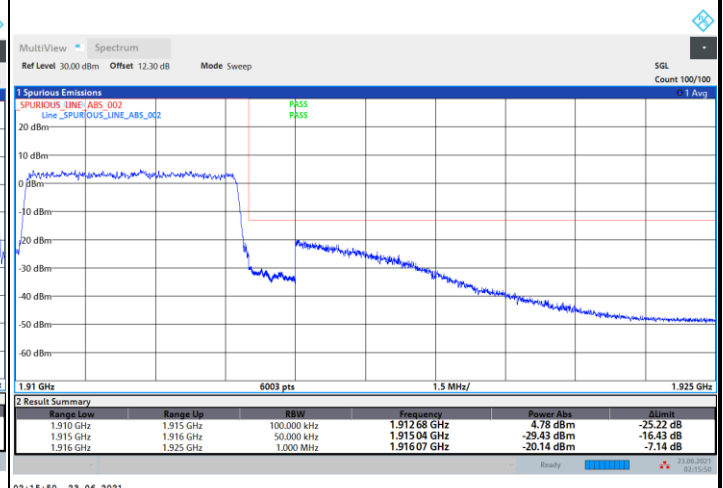
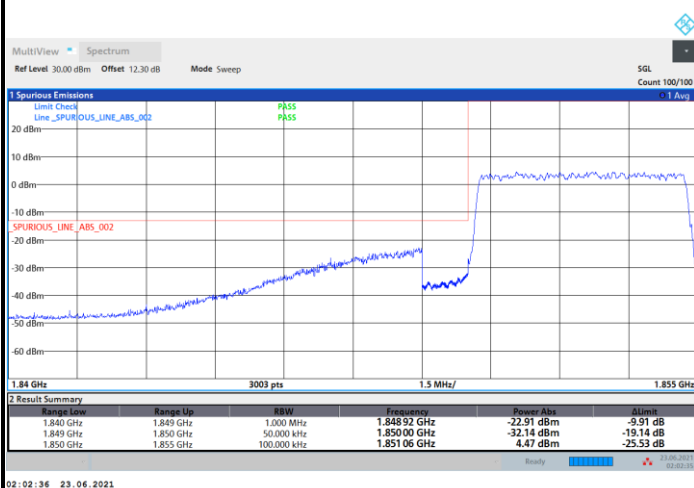
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

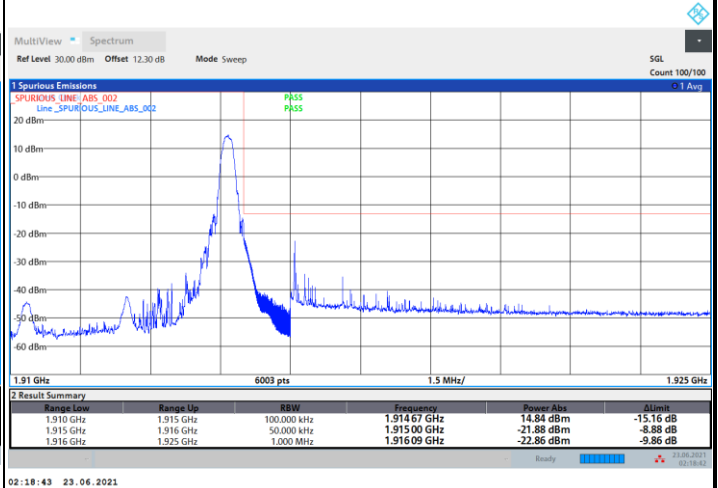
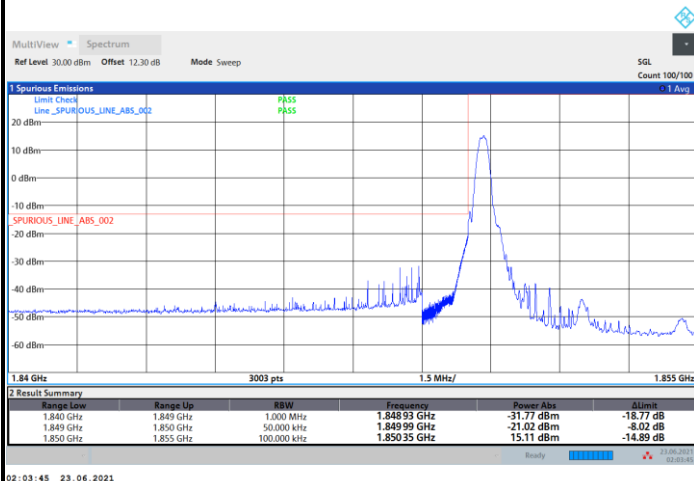




FR1 n25 / 5MHz / DFT-S OFDM / 256QAM

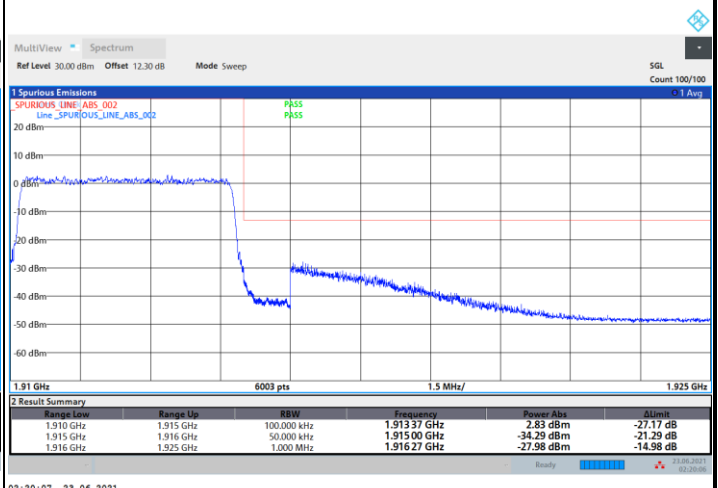
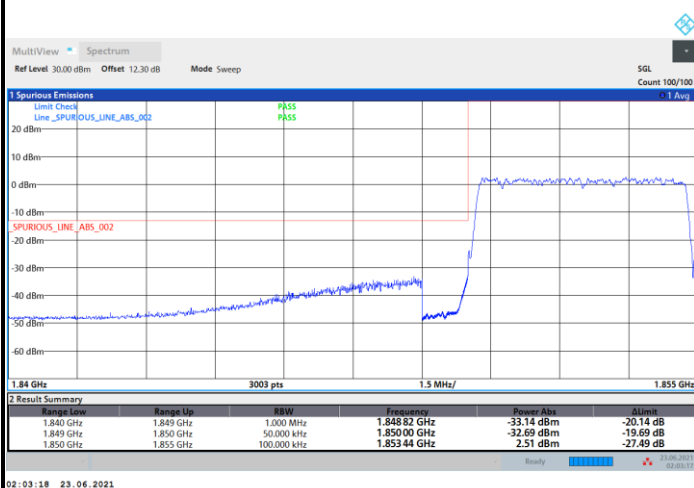
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

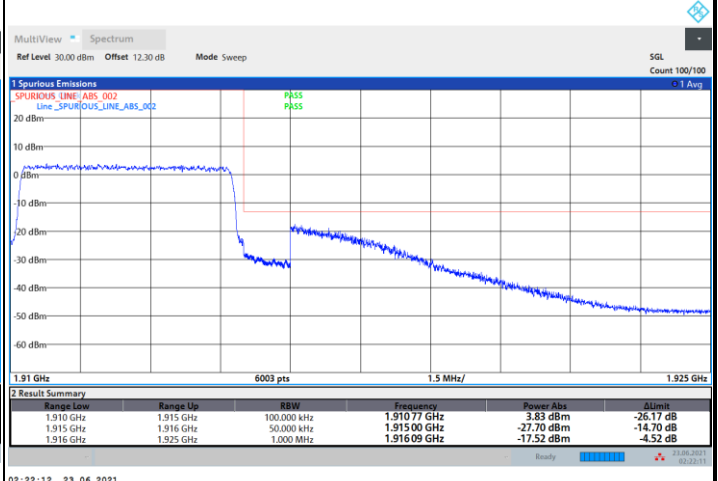
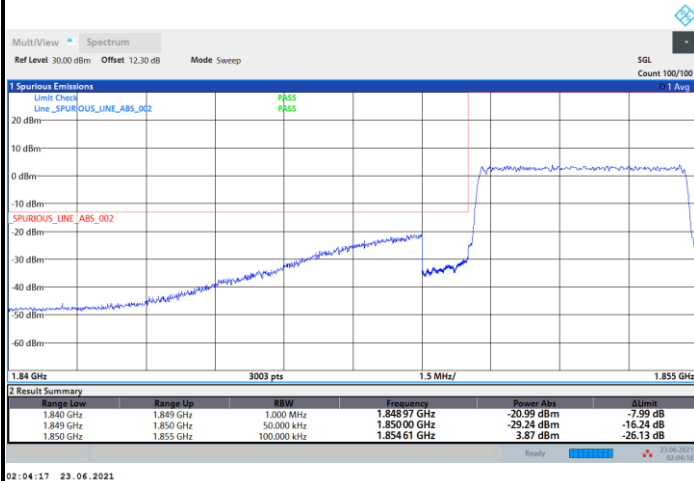




FR1 n25 / 5MHz / CP OFDM / QPSK / Full RB

Lowest Band Edge

Highest Band Edge

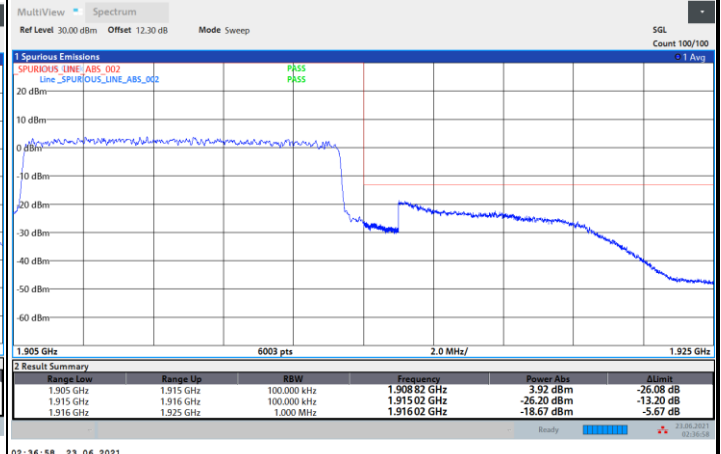
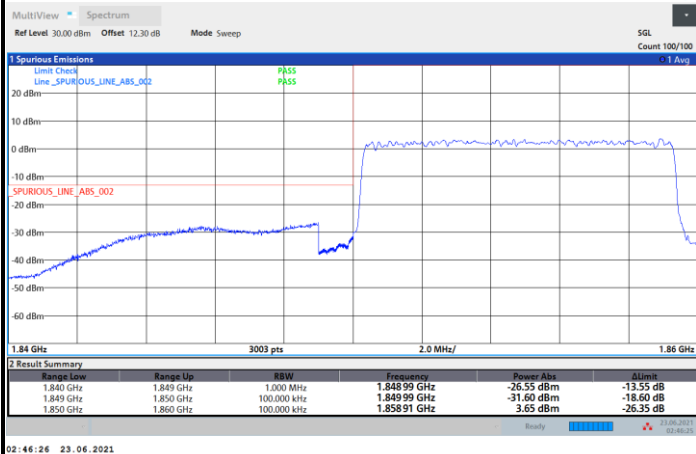




FR1 n25 / 10MHz / DFT-s-OFDM / PI/2 BPSK / Full RB

Lowest Band Edge

Highest Band Edge

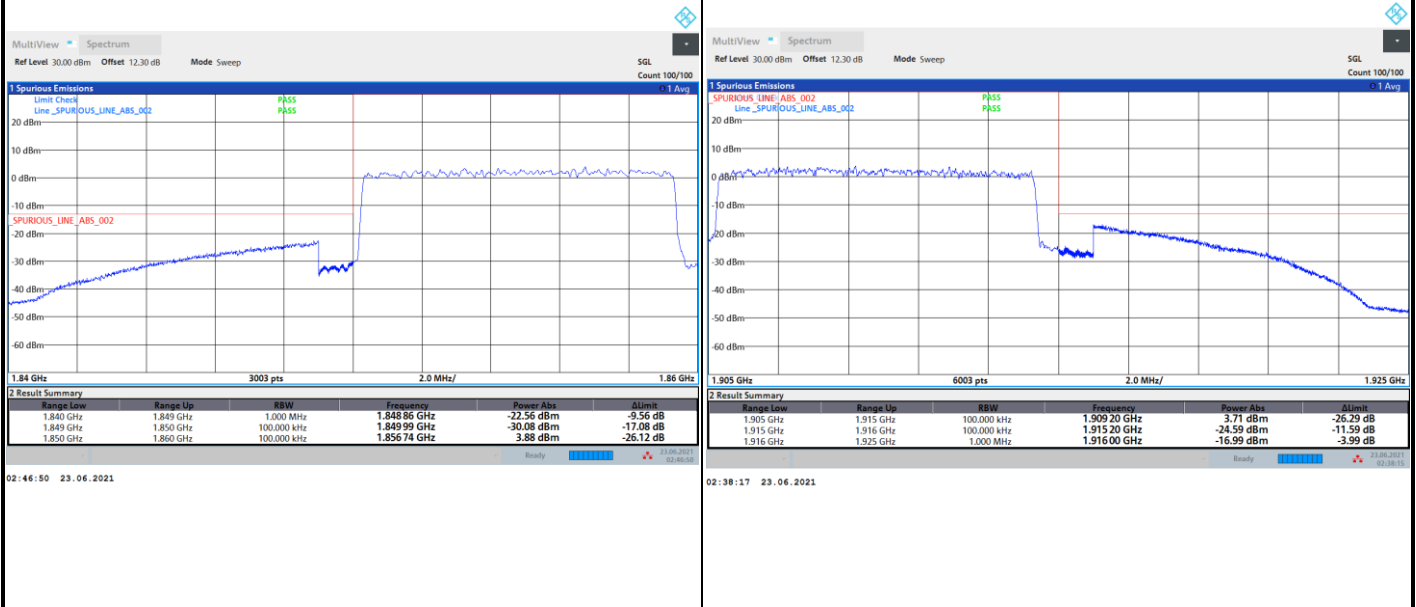




FR1 n25 / 10MHz / DFT-s-OFDM / QPSK / Full RB

Lowest Band Edge

Highest Band Edge

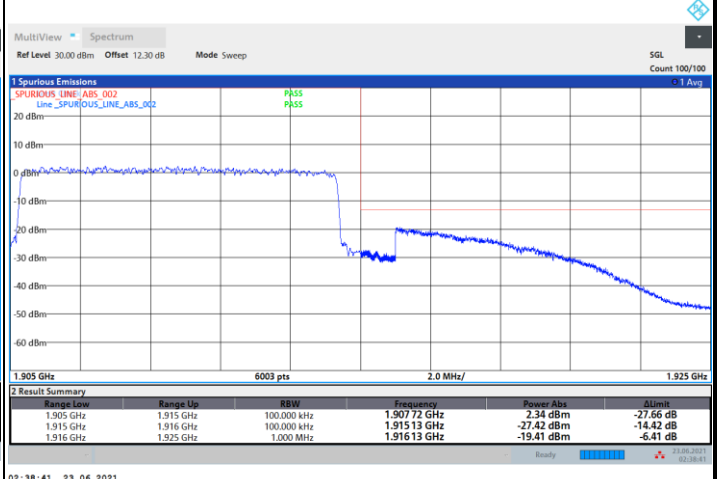
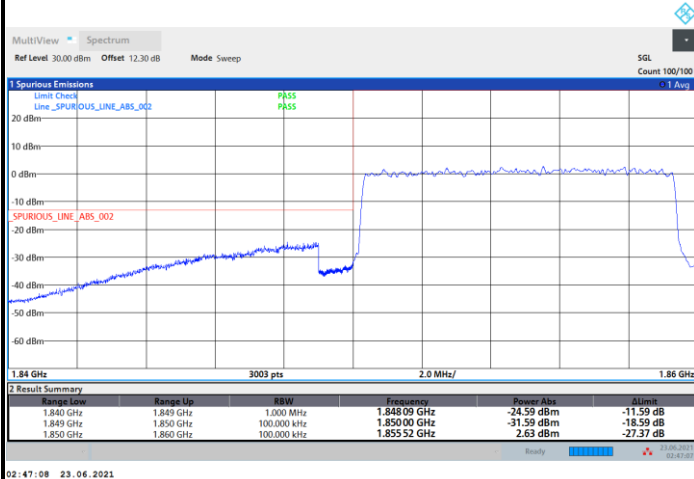




FR1 n25 / 10MHz / DFT-s-OFDM / 16QAM / Full RB

Lowest Band Edge

Highest Band Edge

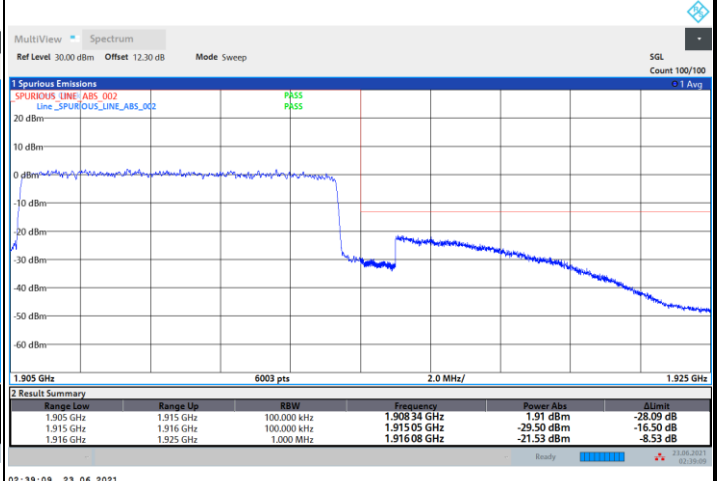
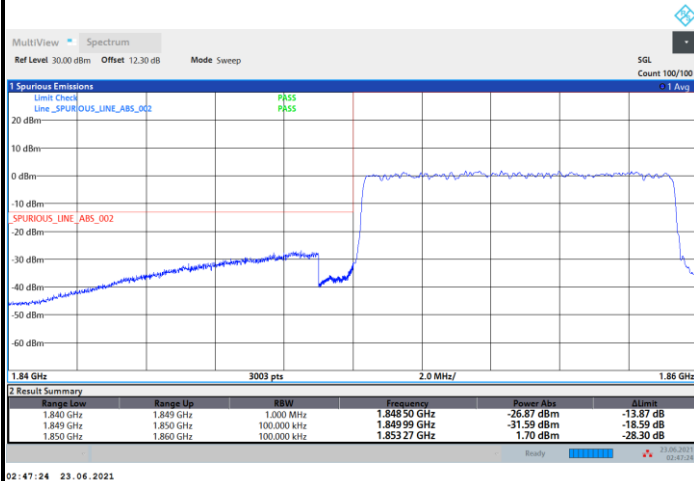




FR1 n25 / 10MHz / DFT-s-OFDM / 64QAM / Full RB

Lowest Band Edge

Highest Band Edge

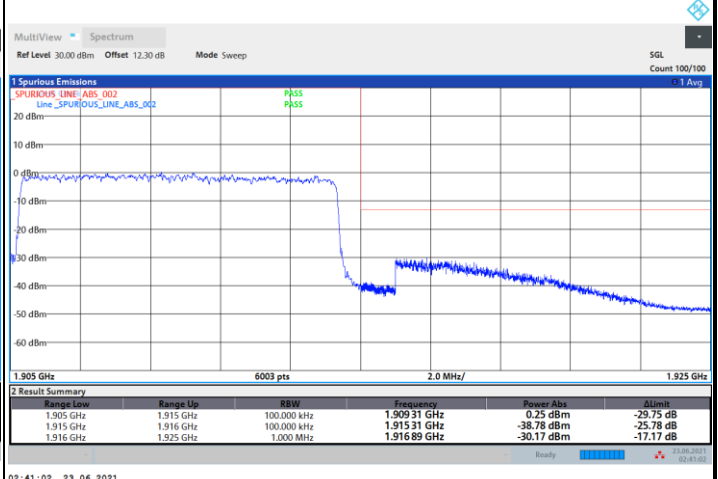
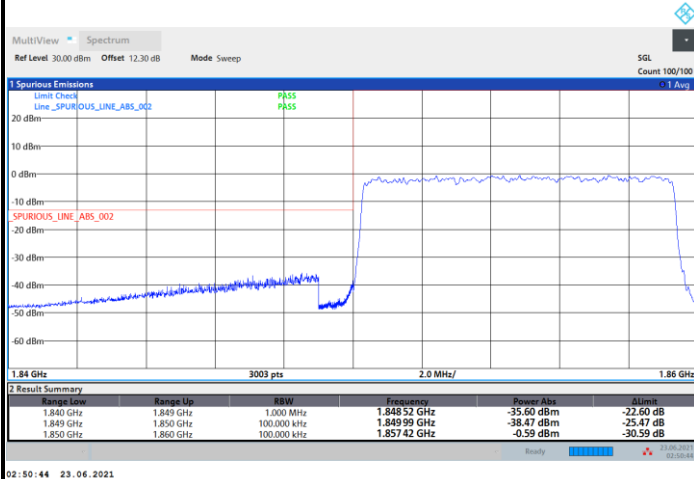




FR1 n25 / 10MHz / DFT-s-OFDM / 256QAM / Full RB

Lowest Band Edge

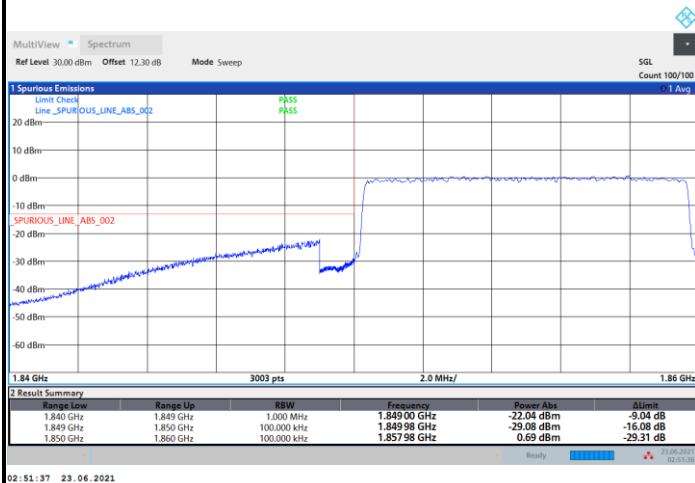
Highest Band Edge



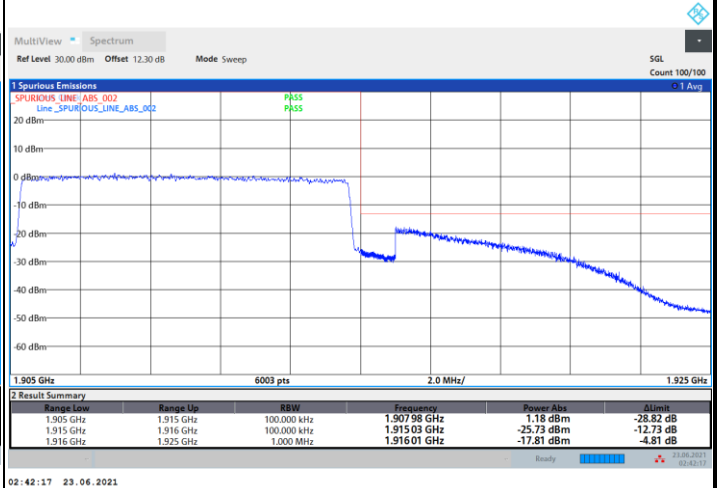


FR1 n25 / 10MHz / CP OFDM / QPSK / Full RB

Lowest Band Edge



Highest Band Edge

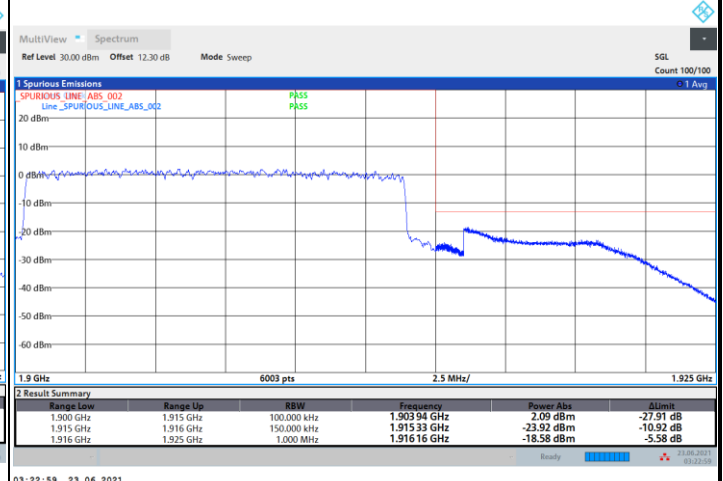
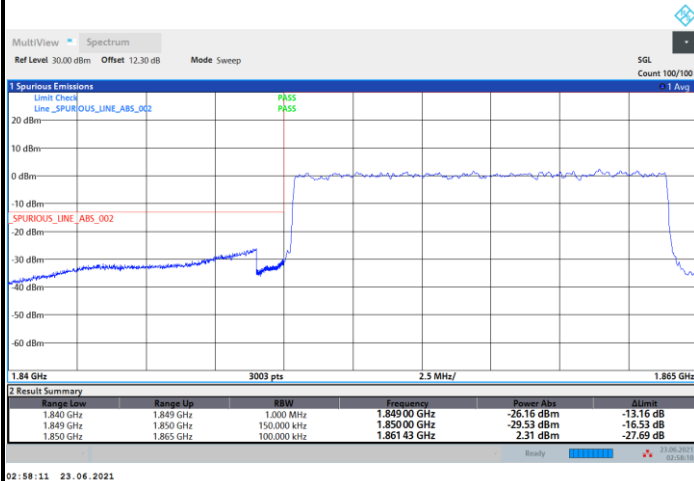




FR1 n25 / 15MHz / DFT-s-OFDM / PI/2 BPSK / Full RB

Lowest Band Edge

Highest Band Edge





FR1 n25 / 15MHz / DFT-s-OFDM / QPSK / Full RB

Lowest Band Edge

Highest Band Edge

