FCC RADIO TEST REPORT

FCC ID	:	**2AQ68T99W368M**
Equipment	:	**5G WWAN Module**
Brand Name	:	**Foxconn**
Model Name	:	**T99W368M**
Applicant	:	**Hon Lin Technology Co., Ltd 11F, No.32, Jihu Rd., Neihu Dist., Taipei City 114, Taiwan R.O.C.**
Manufacturer	:	**Hon Lin Technology Co., Ltd 11F, No.32, Jihu Rd., Neihu Dist., Taipei City 114, Taiwan R.O.C.**
Standard	:	**FCC 47 CFR Part 2, Part 27(D)**

The product was received on Jul. 01, 2022 and testing was performed from Jul. 28, 2022 to Oct. 25, 2022. 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.

Louis Wu

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	Issue Date
FG262904D	01	Initial issue of report	Oct. 28, 2022

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	§2.1046	Conducted Output Power	Reporting only	-
3.3	-	Peak-to-Average Ratio	Reporting only	-
3.4	§27.50 (a)(3)	Effective Isotropic Radiated Power	Pass	-
3.5	§2.1049	Occupied Bandwidth	Reporting only	-
3.6	§2.1051 §27.53 (a)(4)	Conducted Band Edge Measurement	Pass	-
3.7	§2.1051 §27.53 (a)(4)	Conducted Spurious Emission	Pass	-
3.8	§2.1055 §27.54	Frequency Stability Temperature & Voltage	Pass	-
4.2	§2.1053 §27.53 (a)(4)	Radiated Spurious Emission	Pass	10.60 dB under the limit at 9240.000 MHz

Declaration of Conformity:
1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers. It's means measurement values may risk exceeding the limit of regulation standards, if measurement uncertainty is include in test results. 2. The measurement uncertainty please refer to this report "Uncertainty of Evaluation".
Comments and Explanations:
The product specifications of the EUT presented in the report are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: Keven Cheng

Report Producer: Ruby Zou

1 General Description

1.1 Product Feature of Equipment Under Test

WCDMA/LTE/5G NR and GNSS

The following antennas were provided to the EUT

	Band	Brand	Model	Antenna Type	RF Exposure Max Antenna Gain(dBi)
5G NR	n30	WHA YU	C107-511723-A	PCB	0.98

Remark: The above EUT's information was declared by manufacturer and used for Radiated Spurious Emission test.

There are three different HW of T99W368M.

Brand	Model	HW
Foxconn	T99W368M	1. WCDMA+LTE+Sub6+mmWave+eSIM
		2. WCDMA+LTE+Sub6+mmWave w/o eSIM
		3. WCDMA+LTE+Sub6+mmWave +FPC connector on bottom w/o eSIM

Note: All the tests were performed with Sample 1.

1.2 Modification of EUT

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

1.3 Testing Site

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	03CH07-HY
Test Engineer	Peter Liao, Nina Cheng and Luffy Lin	Stan Hsieh and Howard Huang
Temperature (℃)	23.5~24.1	22.6~24.5
Relative Humidity (%)	48~52	56.9~66.1

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

FCC Designation No.: TW1190

1.4 Applied Standards

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

- ANSI C63.26-2015
- FCC 47 CFR Part 2, Part 27(D)
- ANSI / TIA-603-E
- FCC KDB 971168 Power Meas License Digital Systems D01 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

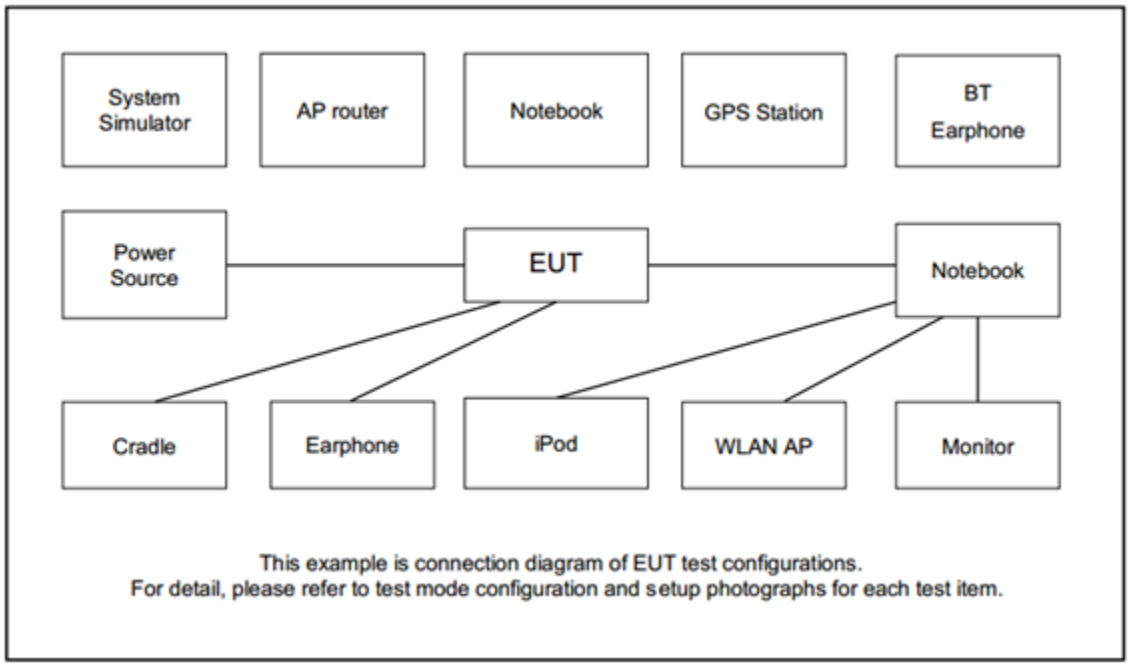
2.1 Test Mode

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.

For radiated measurement, 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 only the worst case emissions were reported in this report.

Test Items	Band	Bandwidth (MHz)						Modulation					RB #			Test Channel		
		1.4	3	5	10	15	20	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	1	Half	Full	L	M	H
Max. Output Power	n30	-	-	v	v	-	-	v	v	v	v	v	v	v	v	v	v	v
Peak-to-Average Ratio	n30	-	-		v	-	-	v	v	v	v	v			v		v	
E.I.R.P	n30	-	-	v	v	-	-	v	v	v	v	v	Max. Power					
26dB and 99% Bandwidth	n30	-	-	v	v	-	-	v	v	v	v	v			v		v	
Conducted Band Edge	n30	-	-	v	v	-	-	v	v	v	v	v	v		v	v	v	v
Conducted Spurious Emission	n30	-	-	v		-	-		v				v			v	v	v
Frequency Stability	n30	-	-		v	-	-	v							v		v	
Radiated Spurious Emission	n30	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. 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, and the worst modes of FR1 and LTE for simultaneous transmission were verified and compliant. 5. One representative bandwidth is selected to perform PAR and frequency stability. 6. Test combination are EN-DC 5A-n30A.																	

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.	Notebook	Dell	E3340	N/A	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
2.	System Simulator	Anritsu	MT8821C	N/A	N/A	Unshielded, 1.8 m
3.	System Simulator	Anritsu	MT8000A	N/A	N/A	Unshielded, 1.8 m
	Fixture	Foxconn	95.2580T00	N/A	N/A	N/A

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 :

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

= 4.2 + 10 = 14.2 (dB)

2.5 Frequency List of Low/Middle/High Channels

5G NR n30 Channel and Frequency List				
BW [MHz]	**Channel/Frequency(MHz)**	**Lowest**	**Middle**	**Highest**
10	Channel	-	27710	-
	Frequency	-	2310	-
5	Channel	27685	27710	27735
	Frequency	2307.5	2310	2312.5

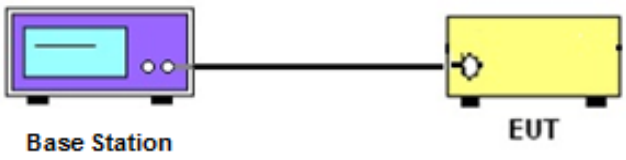
3 Conducted Test Items

3.1 Measuring Instruments

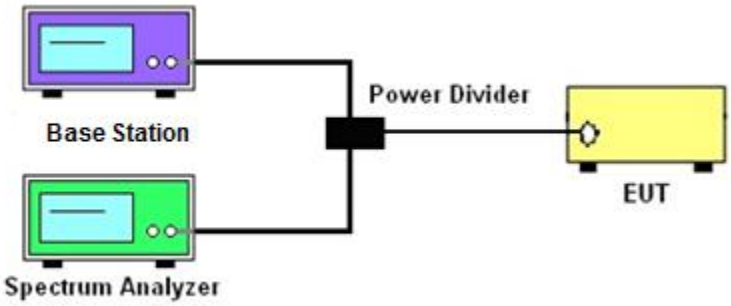
See list of measuring instruments of this test report.

3.1.1 Test Setup

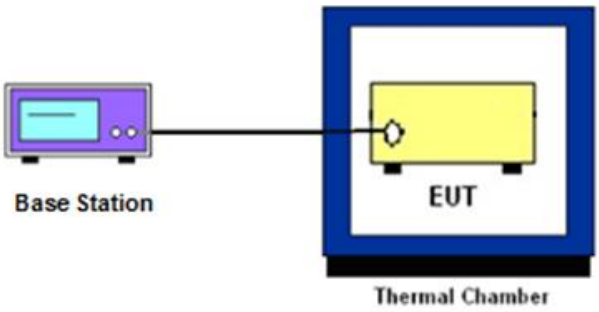
3.1.2 Conducted Output Power



3.1.3 Peak-to-Average Ratio, Occupied Bandwidth, 26dB Bandwidth ,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 Measurement

3.2.1 Description of the Conducted Output Power Measurement

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

3.2.2 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 Effective Isotropic Radiated Power

3.4.1 Description of EIRP Power

For mobile and portable stations transmitting in the 2305-2315 MHz band or the 2350-2360 MHz band, the average EIRP must not exceed 50 milliwatts within any 1 megahertz of authorized bandwidth, *except that* for mobile and portable stations compliant with 3GPP LTE standards or another advanced mobile broadband protocol that avoids concentrating energy at the edge of the operating band the average EIRP must not exceed 250 milliwatts within any 5 megahertz of authorized bandwidth but may exceed 50 milliwatts within any 1 megahertz of authorized bandwidth. For mobile and portable stations using time division duplexing (TDD) technology, the duty cycle must not exceed 38 percent in the 2305-2315 MHz and 2350-2360 MHz bands. Mobile and portable stations using FDD technology are restricted to transmitting in the 2305-2315 MHz band. Power averaging shall not include intervals in which the transmitter is off.

Remark: EIRP use worst case measure the total power to cover per 5MHz Power.
According to KDB 412172 D01 Power Approach,
EIRP = $P_T + G_T – L_C$, 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

The testing follows ANSI C63.26-2015 Section 5.2.4.5

1. Determine the EIRP by adding the effective antenna gain to the adjusted power level.

3.5 Occupied Bandwidth

3.5.1 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.

3.5.2 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.

3.6 Conducted Band Edge

3.6.1 Description of Conducted Band Edge Measurement

27.53 (a)(4)

For mobile and portable stations operating in the 2305-2315 MHz and 2350-2360 MHz bands:

(i) By a factor of not less than: 43 + 10 log (P) dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, not less than 55 + 10 log (P) dB on all frequencies between 2320 and 2324 MHz and on all frequencies between 2341 and 2345 MHz, not less than 61 + 10 log (P) dB on all frequencies between 2324 and 2328 MHz and on all frequencies between 2337 and 2341 MHz, and not less than 67 + 10 log (P) dB on all frequencies between 2328 and 2337 MHz.

(ii) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2300 and 2305 MHz, 55 + 10 log (P) dB on all frequencies between 2296 and 2300 MHz, 61 + 10 log (P) dB on all frequencies between 2292 and 2296 MHz, 67 + 10 log (P) dB on all frequencies between 2288 and 2292 MHz, and 70 + 10 log (P) dB below 2288 MHz.

(iii) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2360 and 2365 MHz, and not less than 70 + 10 log (P) dB above 2365 MHz.

3.6.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.1.

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The band edges of low and high channels for the highest RF powers were measured.
3. Set RBW >= 1% EBW in the 1MHz band immediately outside and adjacent to the band edge.
4. Beyond the 1 MHz band from the band edge, RBW=1MHz was used.
5. 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 + 10log(P)dB below the transmitter power P(Watts)

3.7 Conducted Spurious Emission

3.7.1 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 70 + 10 log (P) dB.

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

3.7.2 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 70 + 10log(P)dB below the transmitter power P(Watts)
   = P(W)- [70 + 10log(P)] (dB)
   = [30 + 10log(P)] (dBm) - [70 + 10log(P)] (dB)
   = -40dBm.

3.8 Frequency Stability

3.8.1 Description of Frequency Stability Measurement

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

3.8.2 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.

3.8.3 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.

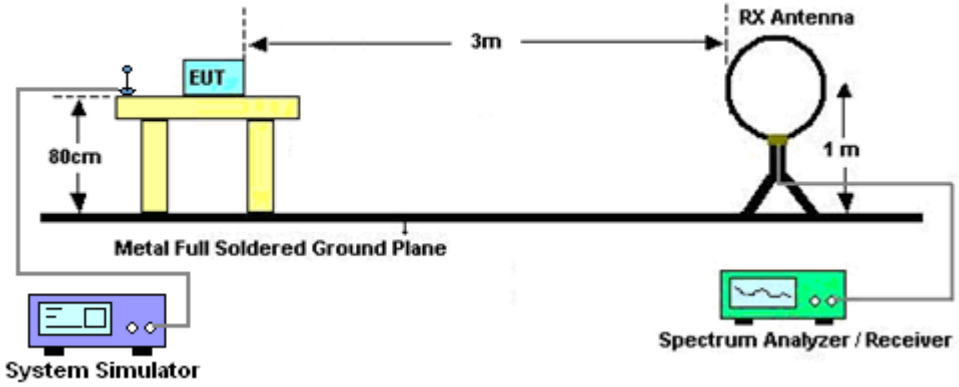
4 Radiated Test Items

4.1 Measuring Instruments

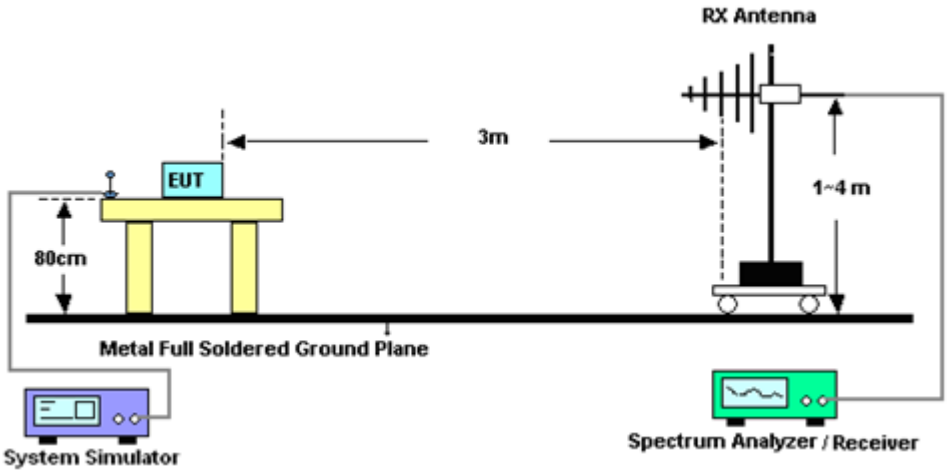
See list of measuring instruments of this test report.

4.1.1 Test Setup

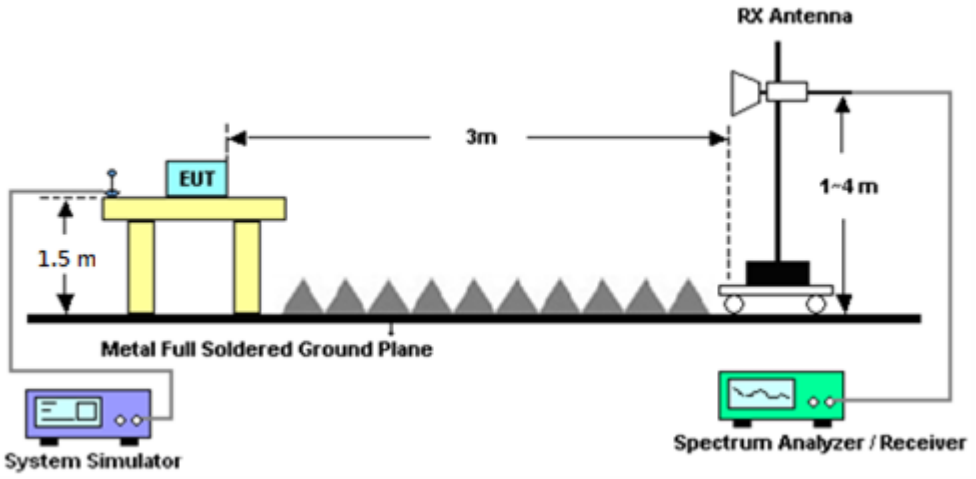
For radiated test below 30MHz



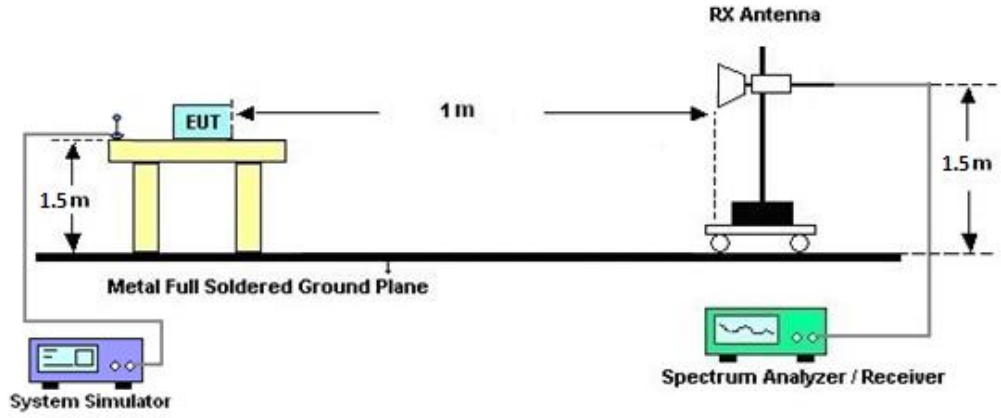
For radiated test from 30MHz to 1GHz



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 70 + 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 height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
2. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
5. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
7. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
8. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
   EIRP (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain
   ERP (dBm) = EIRP - 2.15
9. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
   The limit line is derived from 70 + 10log(P)dB below the transmitter power P(Watts)
   = P(W)- [70 + 10log(P)] (dB)
   = [30 + 10log(P)] (dBm) - [70 + 10log(P)] (dB)
   = -40dBm.

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 & 00800N1D01N -06	35419 & 03	30MHz~1GHz	Apr. 24, 2022	Aug. 22, 2022~ Sep. 05, 2022	Apr. 23, 2023	Radiation (03CH07-HY)
Double Ridge Horn Antenna	ESCO	3117	00075962	1GHz ~ 18GHz	Dec. 03, 2021	Aug. 22, 2022~ Sep. 05, 2022	Dec. 02, 2022	Radiation (03CH07-HY)
Preamplifier	MITEQ	AMF-7D-00101 800-30-10P	1590075	1GHz~18GHz	Apr. 21, 2022	Aug. 22, 2022~ Sep. 05, 2022	Apr. 20, 2023	Radiation (03CH07-HY)
Preamplifier	COM-POWER	PA-103A	161241	10MHz~1GHz	Oct. 04, 2021	Aug. 22, 2022~ Sep. 05, 2022	Oct. 03, 2022	Radiation (03CH07-HY)
Preamplifier	Agilent	8449B	3008A02362	1GHz~26.5GHz	Oct. 04, 2021	Aug. 22, 2022~ Sep. 05, 2022	Oct. 03, 2022	Radiation (03CH07-HY)
Preamplifier	EMEC	EM18G40G	0600789	18-40GHz	Jul. 21, 2022	Aug. 22, 2022~ Sep. 05, 2022	Jul. 20, 2023	Radiation (03CH07-HY)
Spectrum Analyzer	Agilent	N9030A	MY52350276	3Hz~44GHz	Jul. 22, 2022	Aug. 22, 2022~ Sep. 05, 2022	Jul. 21, 2023	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY15682/4	30MHz to 18GHz	Feb. 23, 2022	Aug. 22, 2022~ Sep. 05, 2022	Feb. 22, 2023	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY24971/4	9kHz to 18GHz	Feb. 23, 2022	Aug. 22, 2022~ Sep. 05, 2022	Feb. 22, 2023	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655/4	9kHz to 18GHz	Feb. 23, 2022	Aug. 22, 2022~ Sep. 05, 2022	Feb. 22, 2023	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126	532078/126E	30MHz~18GHz	Sep. 17, 2021	Aug. 22, 2022~ Sep. 05, 2022	Sep. 16, 2022	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2858/2	18GHz~40GHz	Feb. 23, 2022	Aug. 22, 2022~ Sep. 05, 2022	Feb. 22, 2023	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	801606/2	9KHz ~ 40GHz	Apr. 14, 2022	Aug. 22, 2022~ Sep. 05, 2022	Apr. 13, 2023	Radiation (03CH07-HY)
Controller	EMEC	EM1000	N/A	Control Ant Mast	N/A	Aug. 22, 2022~ Sep. 05, 2022	N/A	Radiation (03CH07-HY)
Controller	MF	MF-7802	N/A	Control Turn table	N/A	Aug. 22, 2022~ Sep. 05, 2022	N/A	Radiation (03CH07-HY)
Antenna Mast	EMEC	AM-BS-4500E	N/A	Boresight mast 1M~4M	N/A	Aug. 22, 2022~ Sep. 05, 2022	N/A	Radiation (03CH07-HY)
Turn Table	ChainTek	Chaintek 3000	N/A	0~360 Degree	N/A	Aug. 22, 2022~ Sep. 05, 2022	N/A	Radiation (03CH07-HY)
Software	Audix	E3	N/A	N/A	N/A	Aug. 22, 2022~ Sep. 05, 2022	N/A	Radiation (03CH07-HY)
USB Data Logger	TECPEL	TR-32	HE17XB2495	N/A	Mar. 07, 2022	Aug. 22, 2022~ Sep. 05, 2022	Mar. 06, 2023	Radiation (03CH07-HY)
Horn Antenna	EMCO	3117	00143261	1GHz~18GHz	Feb. 11, 2022	Aug. 22, 2022~ Sep. 05, 2022	Feb. 10, 2023	Radiation (03CH07-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170251	18GHz~40GHz	Nov. 30, 2021	Aug. 22, 2022~ Sep. 05, 2022	Nov. 29, 2022	Radiation (03CH07-HY)
Signal Generator	Anritsu	MG3694C	163401	0.1Hz~40GHz	Feb. 13, 2022	Aug. 22, 2022~ Sep. 05, 2022	Feb. 12, 2023	Radiation (03CH07-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Jan. 07, 2022	Aug. 22, 2022~ Sep. 05, 2022	Jan. 06, 2023	Radiation (03CH07-HY)

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Programmable Power Supply	GW Instek	PSS-2005	EL883644	50Hz~60Hz	Dec. 03, 2021	Jul. 28, 2022~ Oct. 25, 2022	Dec. 02, 2023	Conducted (TH03-HY)
Hygrometer	Testo	608-H11	34893240	NA	Nov. 17, 2021	Jul. 28, 2022~ Oct. 25, 2022	Nov. 16, 2022	Conducted (TH03-HY)
Signal Analyzer	Rohde & Schwarz	FSV3044	101048	10Hz~44GHz	May 05, 2022	Jul. 28, 2022~ Oct. 25, 2022	May 04, 2023	Conducted (TH03-HY)
Temperature Chamber	ESPEC	SH-641	92013720	-40℃ ~90℃	Sep. 09, 2021	Jul. 28, 2022~ Sep. 07, 2022	Sep. 08, 2022	Conducted (TH03-HY)
Temperature Chamber	ESPEC	SH-641	92013720	-40℃ ~90℃	Sep. 07, 2022	Sep. 07, 2022~ Oct. 25, 2022	Sep. 06, 2023	Conducted (TH03-HY)
Base Station (Measure)	Anritsu	MT8821C	6262116730	LTE	Jun. 15, 2021	Jul. 28, 2022~ Oct. 25, 2022	Jun. 14, 2023	Conducted (TH03-HY)
Base Station (Measure)	Anritsu	MT8000A	6261940327	FR1	Oct. 29, 2021	Jul. 28, 2022~ Oct. 25, 2022	Oct. 28, 2022	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))	**3.25 dB**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**3.50 dB**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**4.08 dB**

Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power) and EIRP

NR n30 Maximum Average Power [dBm] (GT - LC = 0.98 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
5	1	1	PI/2 BPSK	22.01	22.16	22.07	23.25	0.2113
5	1	23		21.98	22.15	22.08		
5	12	6		22.16	22.21	22.24		
5	1	0		21.61	21.78	22.27		
5	1	24		21.56	21.76	21.68		
5	25	0		21.71	21.80	21.84		
5	1	1	QPSK	21.99	22.12	22.06		
5	1	23		21.96	22.15	22.03		
5	12	6		22.11	22.24	22.23		
5	1	0		21.13	21.26	21.19		
5	1	24		21.10	21.18	21.17		
5	25	0		21.22	21.28	21.34		
5	1	1	16-QAM	21.29	21.22	21.35	22.33	0.1710
5	1	1	64-QAM	19.65	19.92	19.71		
5	1	1	256-QAM	17.20	17.77	17.26		
Limit	EIRP < 250 mW/5MHz			Result			Pass	

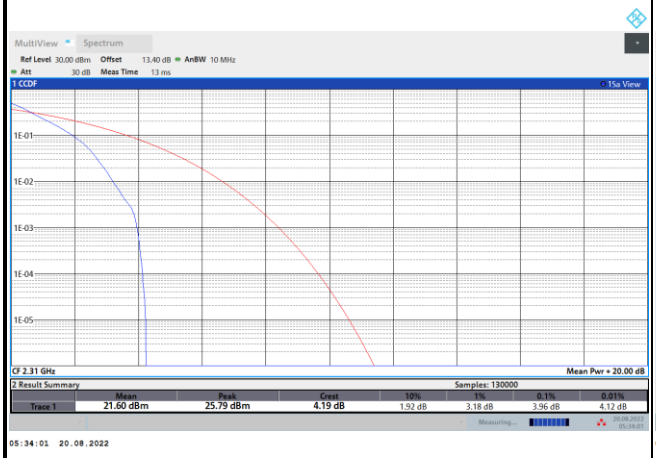
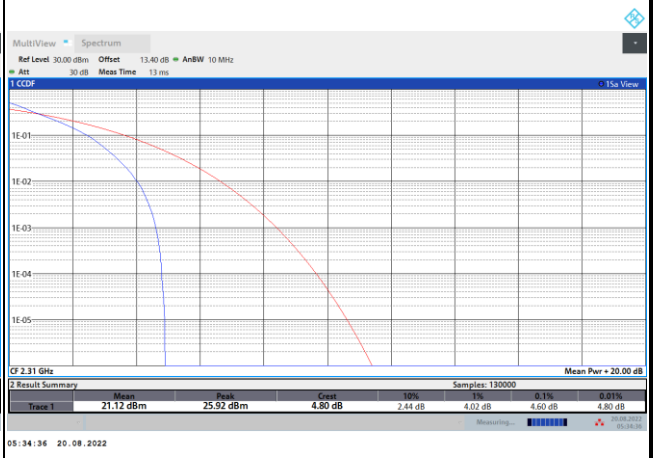
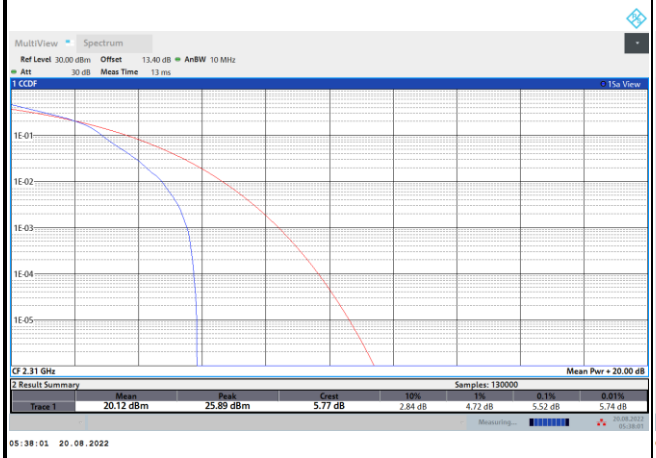
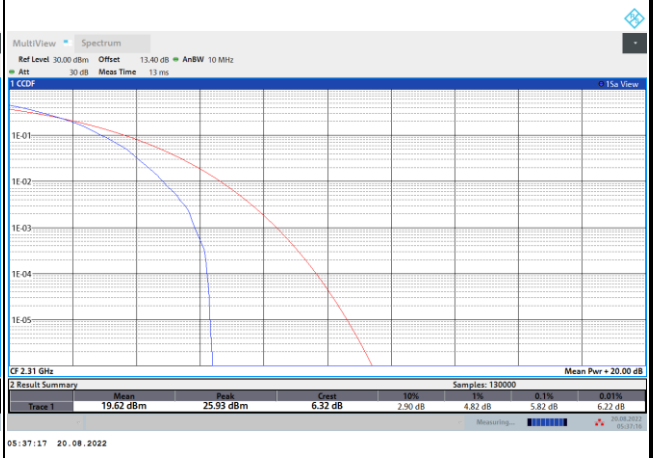
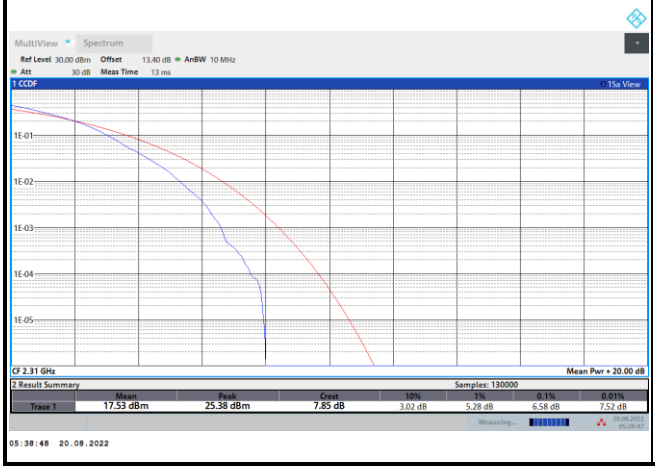
NR n30 Maximum Average Power [dBm] (GT - LC = 0.98 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
10	1	1	PI/2 BPSK	-	22.15	-	23.18	0.2080
10	1	50		-	22.12	-		
10	25	12		-	22.20	-		
10	1	0		-	21.79	-		
10	1	51		-	21.70	-		
10	50	0		-	21.81	-		
10	1	1	QPSK	-	22.14	-		
10	1	50		-	22.10	-		
10	25	12		-	22.19	-		
10	1	0		-	21.25	-		
10	1	51		-	21.20	-		
10	50	0		-	21.25	-		
10	1	1	16-QAM	-	21.40	-	22.38	0.1730
10	1	1	64-QAM	-	19.79	-		
10	1	1	256-QAM	-	17.22	-		
Limit	EIRP < 250 mW/5MHz			Result			Pass	

Total EIRP power is less than partial EIRP limit 250 mW/5MHz.

FR1 n30

Peak-to-Average Ratio

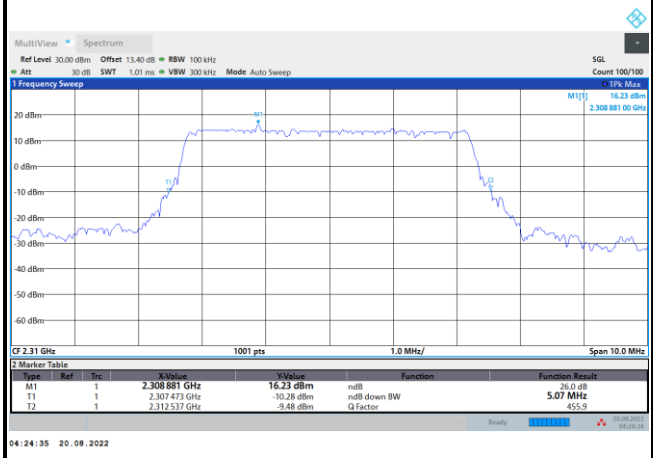
Mode	FR1 n30 / 10MHz / DFT-S OFDM				
Mod.	PI/2 BPSK	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	3.96	4.60	5.52	5.82	PASS
Mode	FR1 n30 / 10MHz / DFT-S OFDM				
Mod.	256QAM				Limit: 13dB
RB Size	Full RB				Result
Middle CH	6.58				PASS

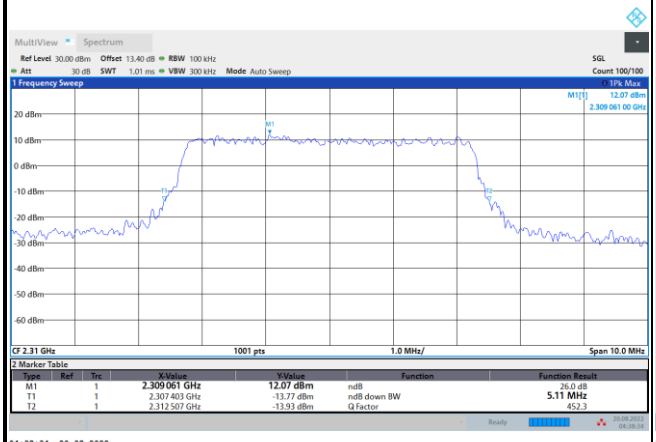
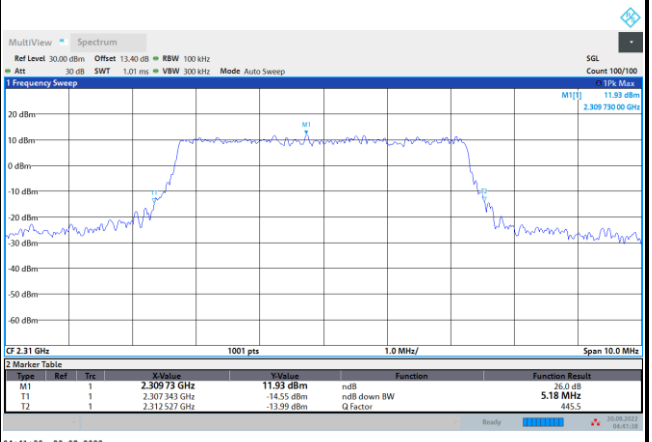
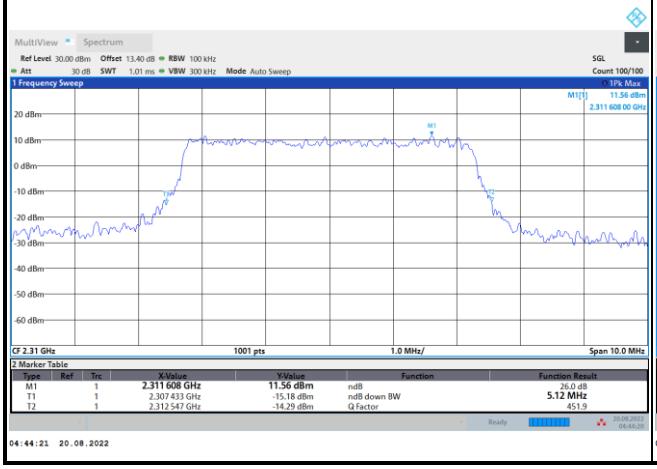
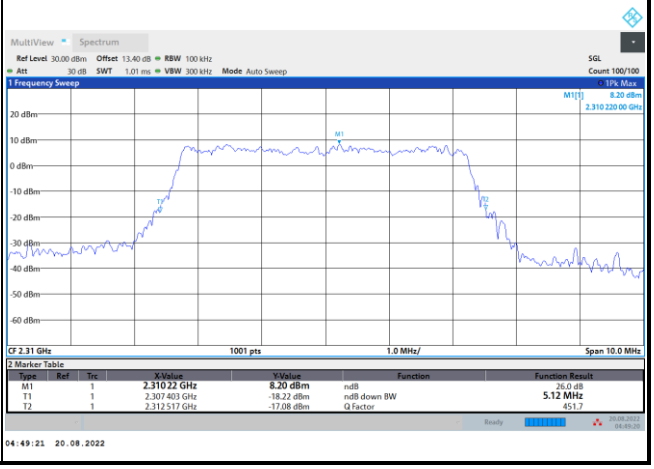
FR1 n30 / 10MHz / DFT-S OFDM / Middle Channel / Full RB	
PI/2 BPSK	QPSK
	
16QAM	64QAM
	
256QAM	
	

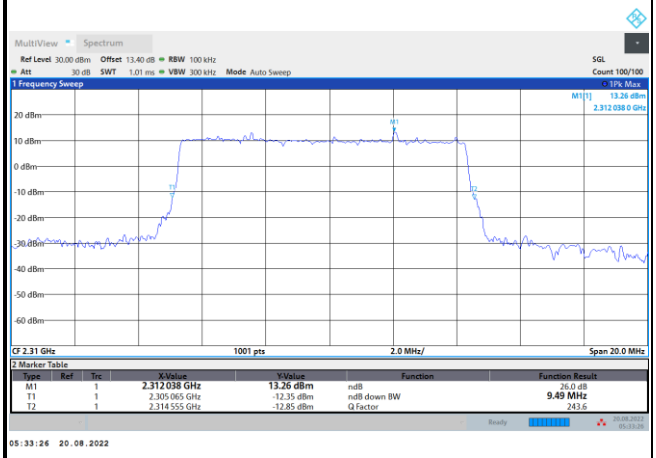
26dB Bandwidth

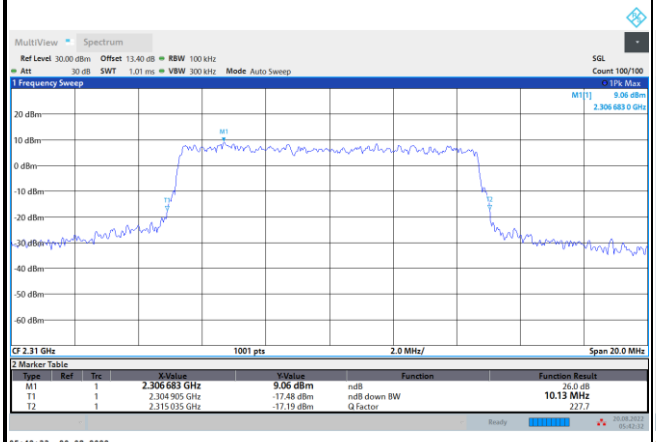
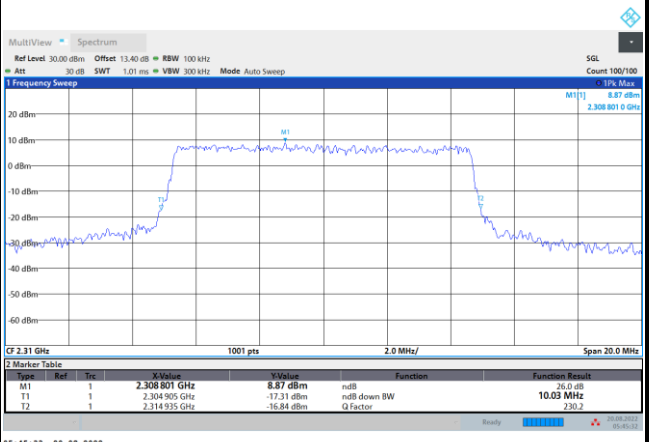
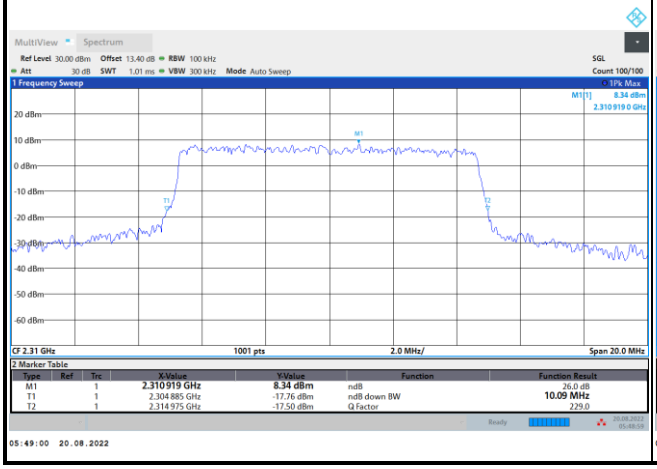
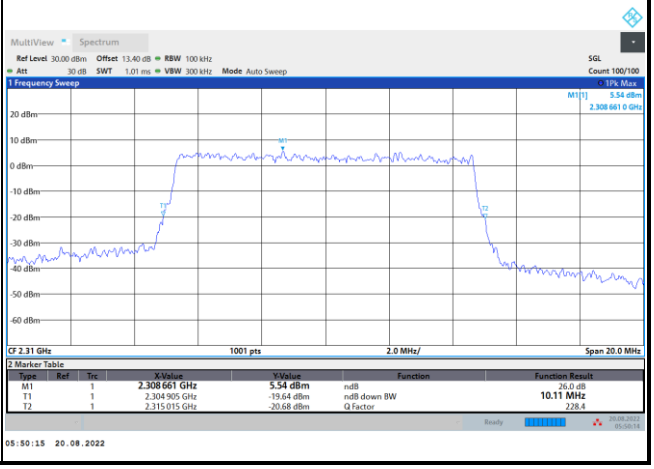
Mode	FR1 n30 : 26dB BW(MHz) / DFT-S OFDM							
BW	5MHz		10MHz					
Mod.	PI/2 BPSK		PI/2 BPSK					
Middle CH	5.07		9.49					

Mode	FR1 n30 : 26dB BW(MHz) / CP OFDM							
BW	5MHz		10MHz					
Mod.	QPSK	16QAM	QPSK	16QAM				
Middle CH	5.11	5.18	10.13	10.03				
Mod.	64QAM	256QAM	64QAM	256QAM				
Middle CH	5.12	5.12	10.09	10.11				

FR1 n30 / 5MHz / DFT-S OFDM / Middle Channel / Full RB	
PI/2 BPSK	
	

FR1 n30 / 5MHz / CP OFDM / Middle Channel / Full RB	
QPSK	16QAM
	
64QAM	256QAM
	

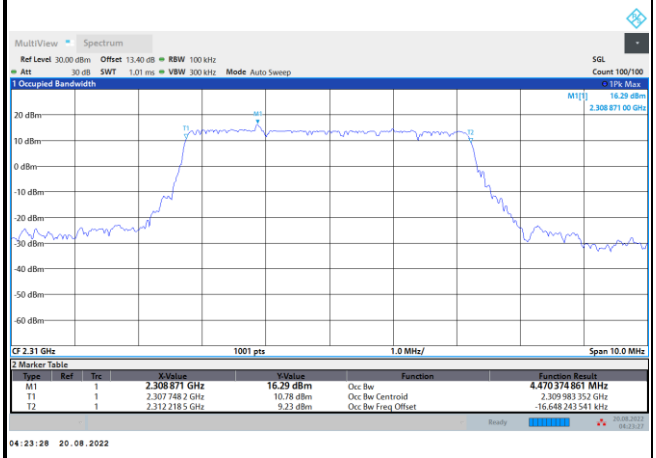
FR1 n30 / 10MHz / DFT-S OFDM / Middle Channel / Full RB	
PI/2 BPSK	
	

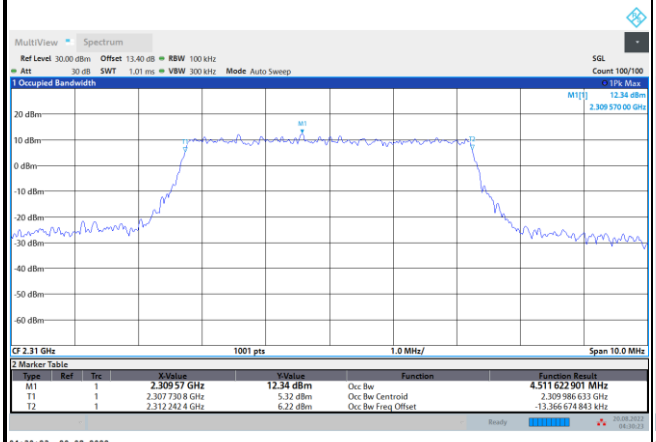
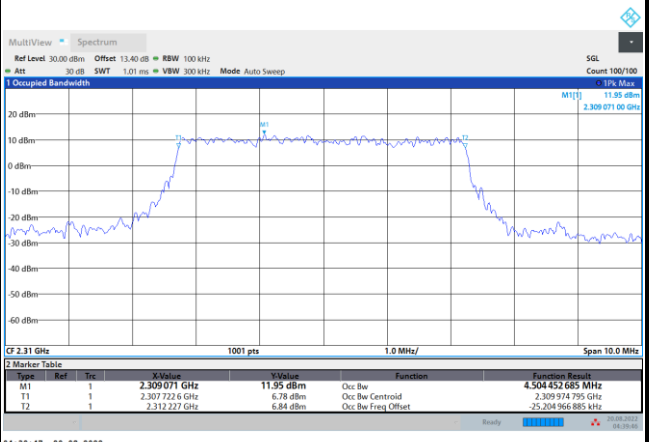
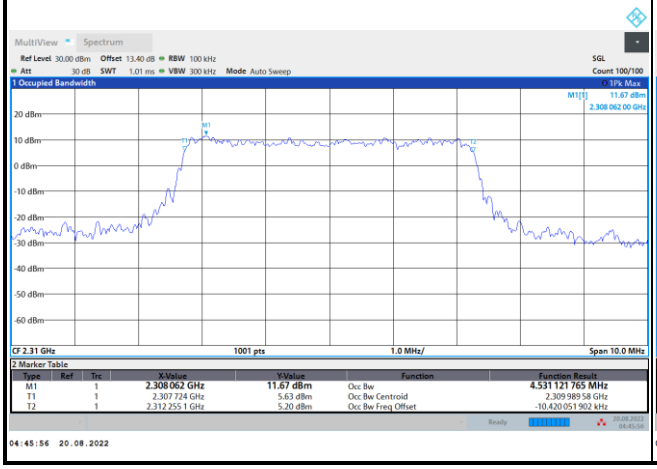
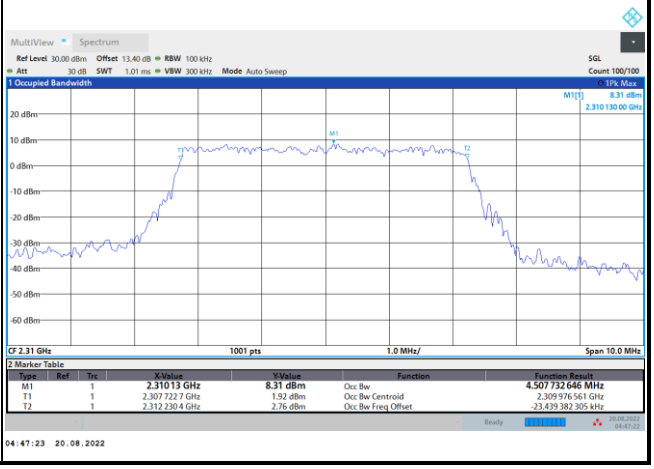
FR1 n30 / 10MHz / CP OFDM / Middle Channel / Full RB	
QPSK	16QAM
	
64QAM	256QAM
	

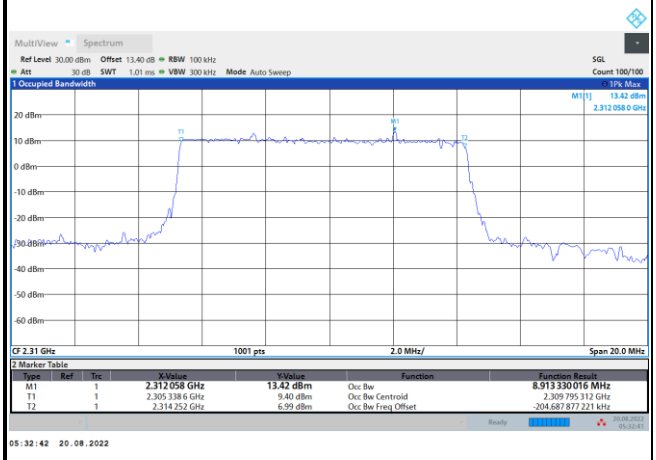
Occupied Bandwidth

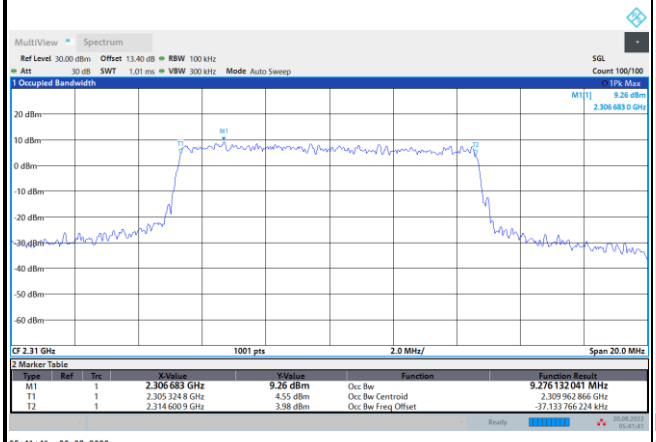
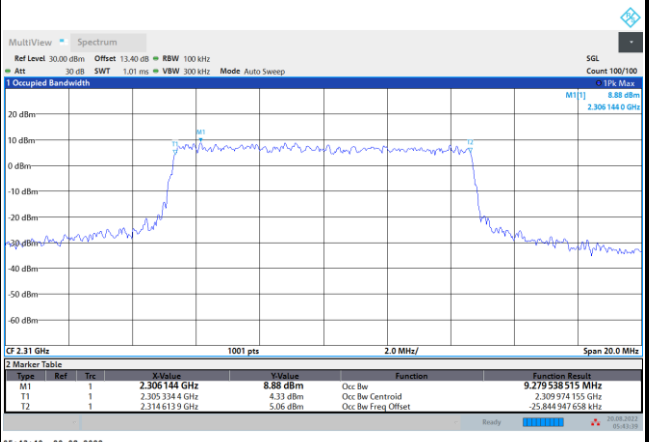
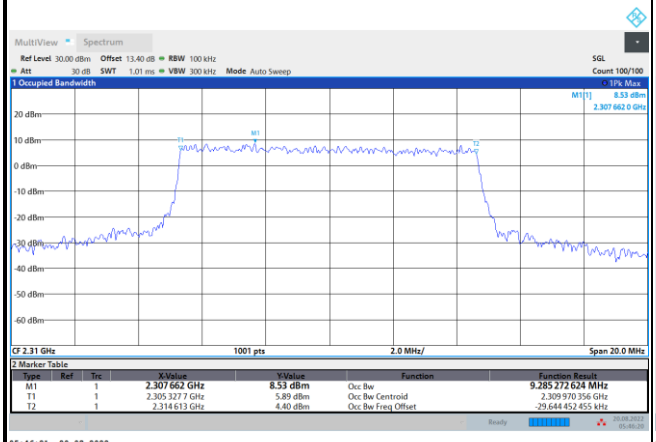
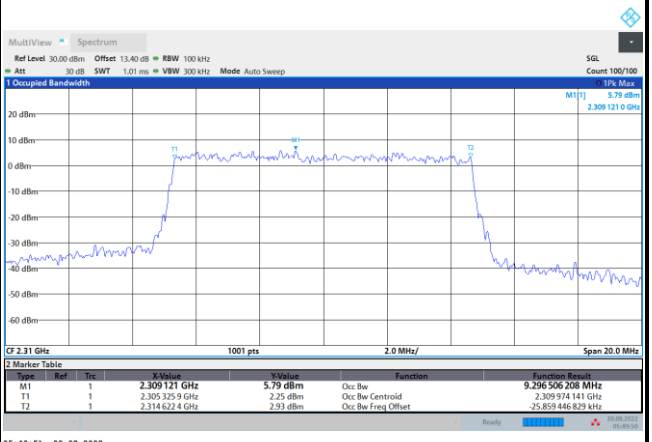
Mode	FR1 n30 : 99%OBW(MHz) / DFT-S OFDM							
BW	5MHz		10MHz					
Mod.	PI/2 BPSK		PI/2 BPSK					
Middle CH	4.47		8.91					

Mode	FR1 n30 : 99%OBW (MHz) / CP OFDM							
BW	5MHz		10MHz					
Mod.	QPSK	16QAM	QPSK	16QAM				
Middle CH	4.51	4.50	9.28	9.28				
Mod.	64QAM	256QAM	64QAM	256QAM				
Middle CH	4.53	4.51	9.29	9.30				

FR1 n30 / 5MHz / DFT-S OFDM / Middle Channel / Full RB	
PI/2 BPSK	
	

FR1 n30 / 5MHz / CP OFDM / Middle Channel / Full RB	
QPSK	16QAM
	
64QAM	256QAM
	

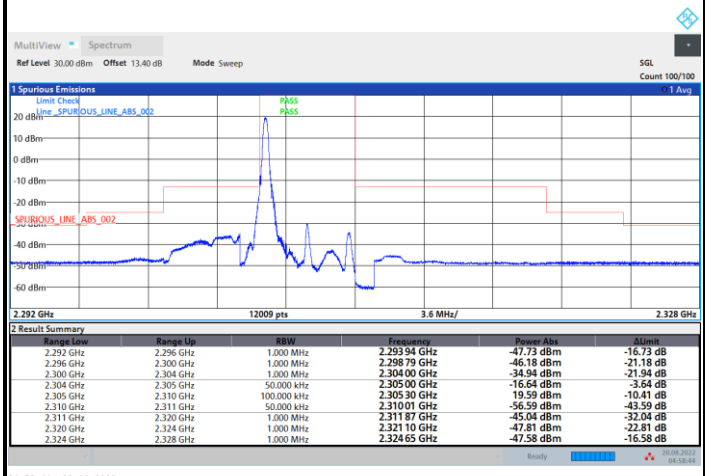
FR1 n30 / 10MHz / DFT-S OFDM / Middle Channel / Full RB	
PI/2 BPSK	
	

FR1 n30 / 10MHz / CP OFDM / Middle Channel / Full RB	
QPSK	16QAM
	
64QAM	256QAM
	

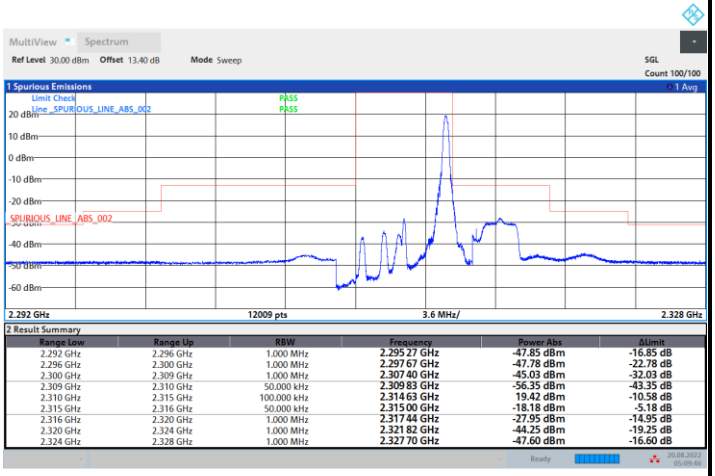
Conducted Band Edge

FR1 n30 / 5MHz / DFT-S OFDM / PI/2 BPSK

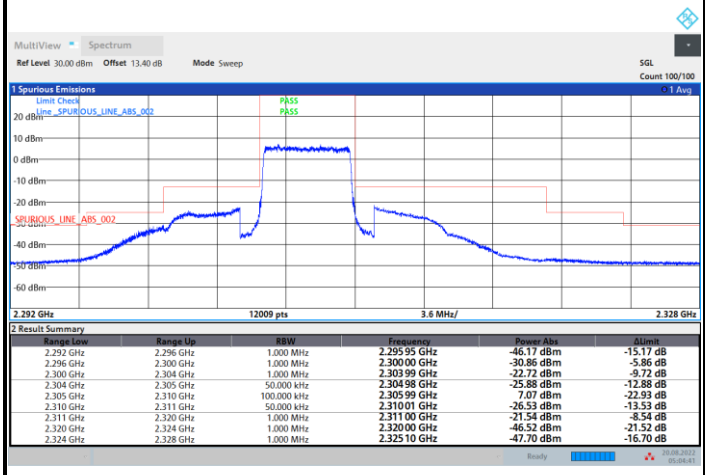
Lowest Band Edge / 1RB0



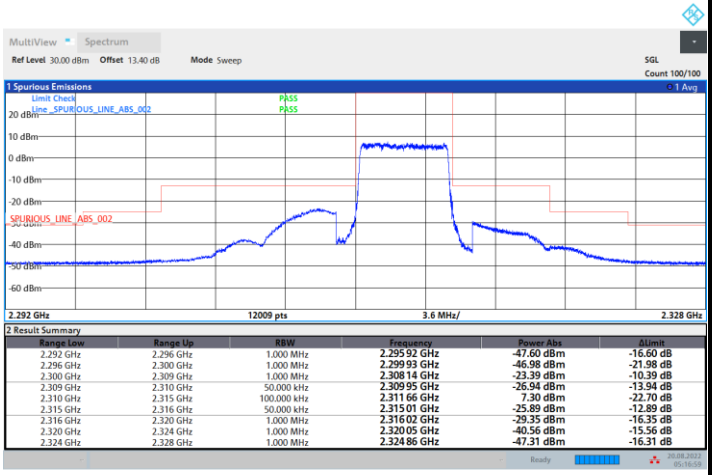
Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

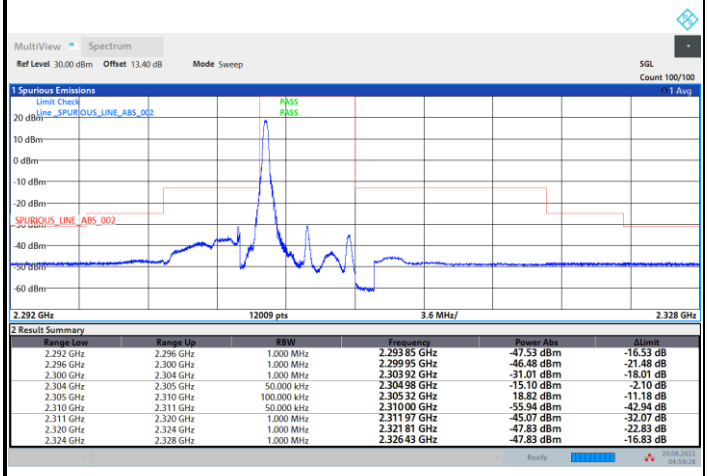


Highest Band Edge / Full RB



FR1 n30 / 5MHz / DFT-S OFDM / QPSK

Lowest Band Edge / 1RB0



2 Result Summary

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.293 85 GHz	-47.53 dBm	-16.53 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.299 95 GHz	-46.48 dBm	-21.48 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.303 92 GHz	-31.01 dBm	-18.01 dB
2.304 GHz	2.305 GHz	50.000 kHz	2.304 98 GHz	-15.10 dBm	-2.10 dB
2.305 GHz	2.310 GHz	100.000 kHz	2.305 32 GHz	18.82 dBm	-11.18 dB
2.310 GHz	2.311 GHz	50.000 kHz	2.310 00 GHz	-55.94 dBm	-42.94 dB
2.311 GHz	2.320 GHz	1.000 MHz	2.311 97 GHz	-45.07 dBm	-32.07 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.321 81 GHz	-47.83 dBm	-22.83 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.326 43 GHz	-47.83 dBm	-16.83 dB

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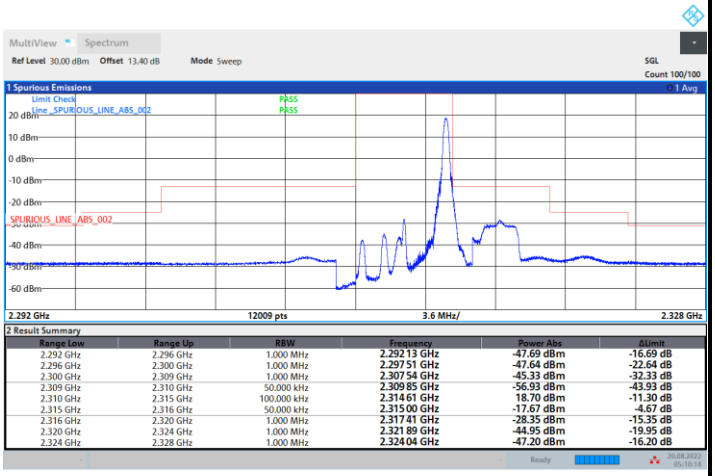
Highest Band Edge / 1RBmax



2 Result Summary

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.292 13 GHz	-47.69 dBm	-16.69 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.297 51 GHz	-47.64 dBm	-22.64 dB
2.300 GHz	2.309 GHz	1.000 MHz	2.307 54 GHz	-45.33 dBm	-32.33 dB
2.309 GHz	2.310 GHz	50.000 kHz	2.309 85 GHz	-56.93 dBm	-43.93 dB
2.310 GHz	2.315 GHz	100.000 kHz	2.314 61 GHz	18.70 dBm	-11.30 dB
2.315 GHz	2.316 GHz	50.000 kHz	2.315 00 GHz	-17.67 dBm	-4.67 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.317 41 GHz	-28.35 dBm	-15.35 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.321 89 GHz	-44.95 dBm	-19.95 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.324 04 GHz	-47.20 dBm	-16.20 dB

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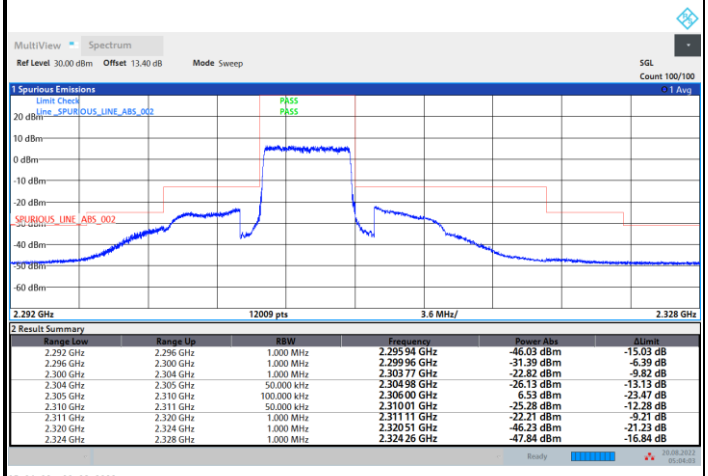
Lowest Band Edge / Full RB



2 Result Summary

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.295 94 GHz	-46.03 dBm	-15.03 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.299 96 GHz	-31.39 dBm	-6.39 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.303 77 GHz	-22.82 dBm	-9.82 dB
2.304 GHz	2.305 GHz	50.000 kHz	2.304 98 GHz	-26.13 dBm	-13.13 dB
2.305 GHz	2.310 GHz	100.000 kHz	2.306 00 GHz	6.53 dBm	-23.47 dB
2.310 GHz	2.311 GHz	50.000 kHz	2.310 01 GHz	-25.28 dBm	-12.28 dB
2.311 GHz	2.320 GHz	1.000 MHz	2.311 11 GHz	-22.21 dBm	-9.21 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.320 51 GHz	-46.23 dBm	-21.23 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.324 26 GHz	-47.84 dBm	-16.84 dB

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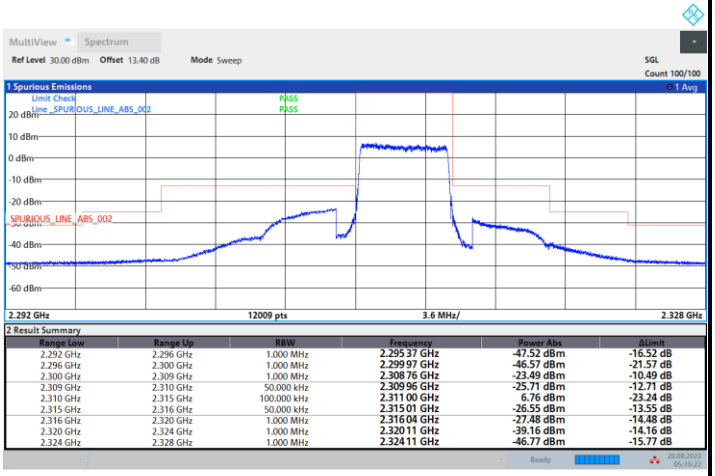
Highest Band Edge / Full RB



2 Result Summary

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.295 37 GHz	-47.52 dBm	-16.52 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.299 97 GHz	-46.57 dBm	-21.57 dB
2.300 GHz	2.309 GHz	1.000 MHz	2.308 76 GHz	-23.49 dBm	-10.49 dB
2.309 GHz	2.310 GHz	50.000 kHz	2.309 96 GHz	-25.71 dBm	-12.71 dB
2.310 GHz	2.315 GHz	100.000 kHz	2.311 00 GHz	6.76 dBm	-23.24 dB
2.315 GHz	2.316 GHz	50.000 kHz	2.315 01 GHz	-26.55 dBm	-13.55 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.316 04 GHz	-27.48 dBm	-14.48 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.320 11 GHz	-39.16 dBm	-14.16 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.324 11 GHz	-46.77 dBm	-15.77 dB

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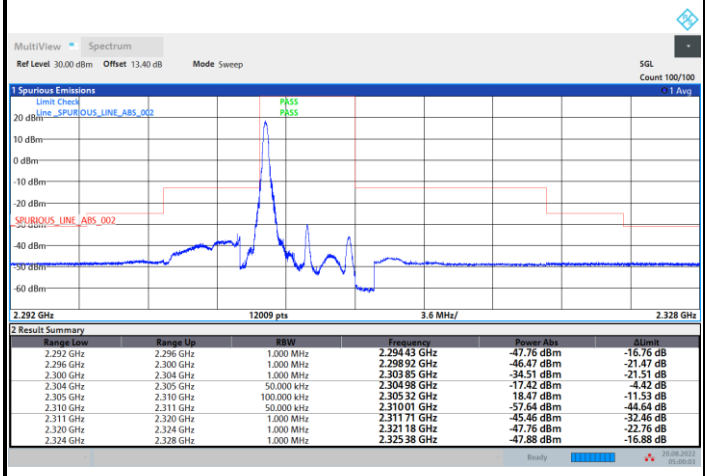
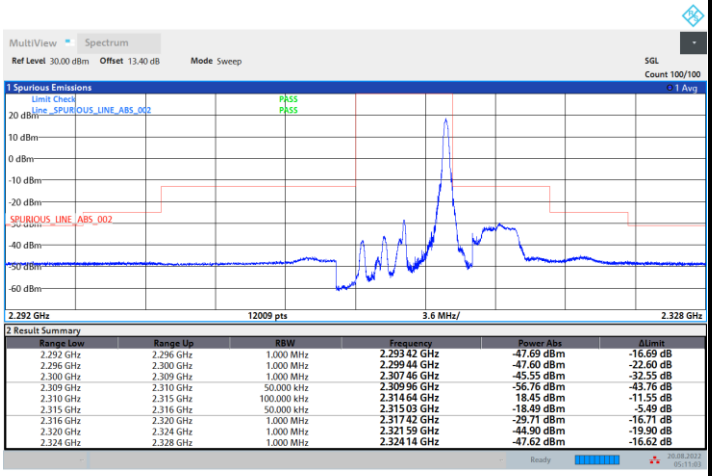
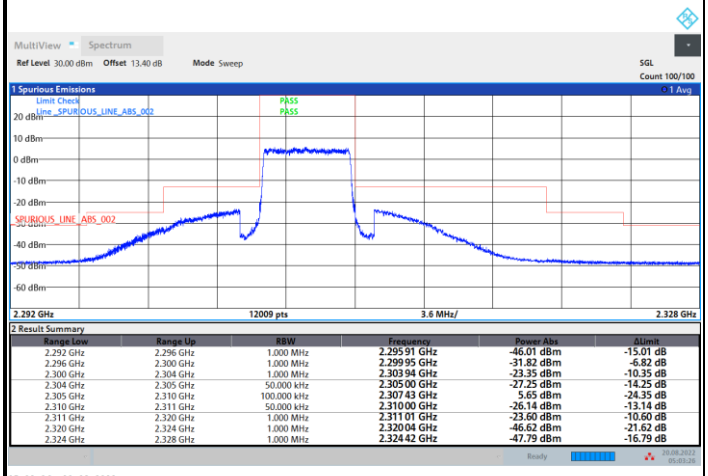
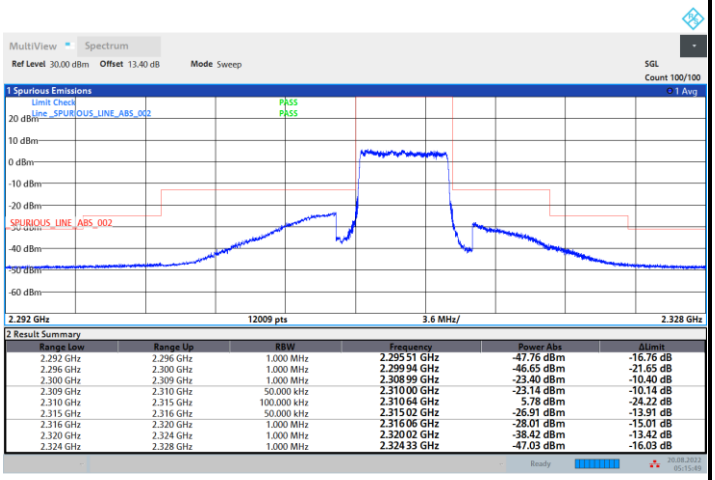
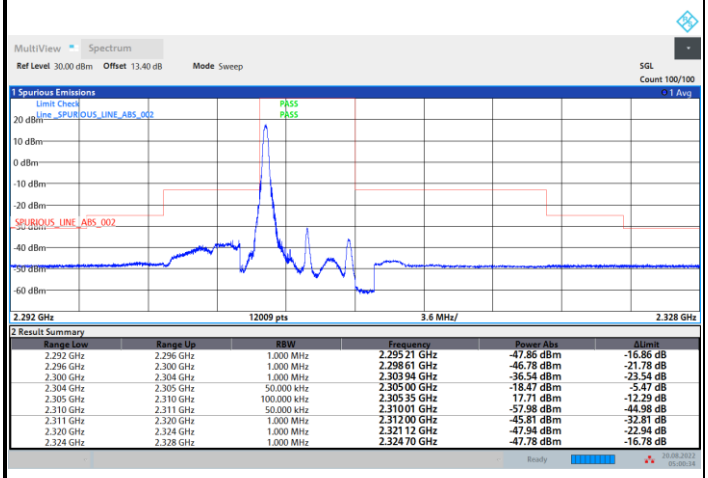
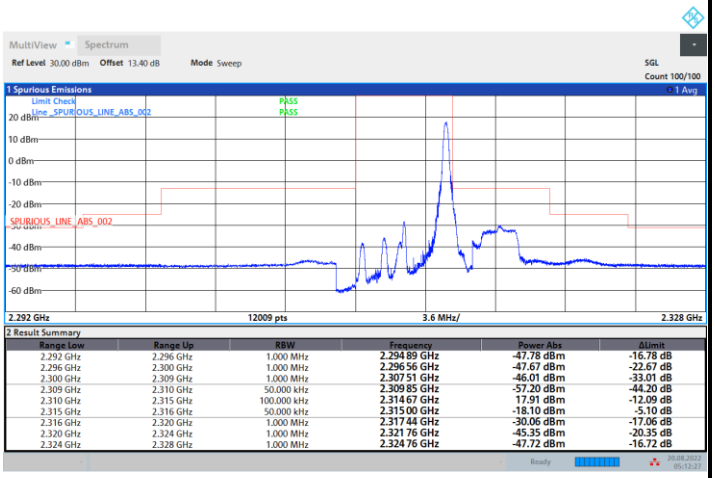
FR1 n30 / 5MHz / DFT-S OFDM / 16QAM	
Lowest Band Edge / 1RB0	**Highest Band Edge / 1RBmax**
	
Lowest Band Edge / Full RB	**Highest Band Edge / Full RB**
	

FR1 n30 / 5MHz / DFT-S OFDM / 64QAM

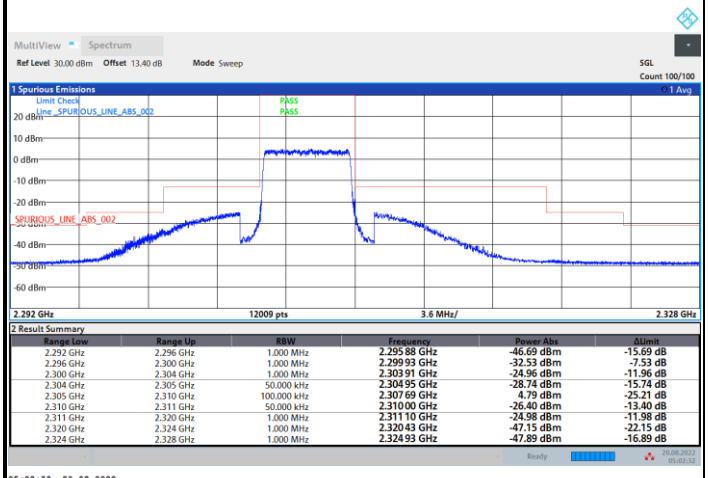
Lowest Band Edge / 1RB0



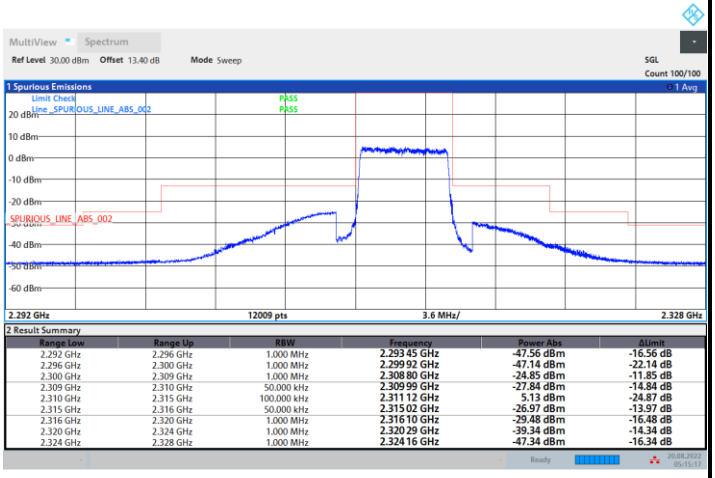
Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

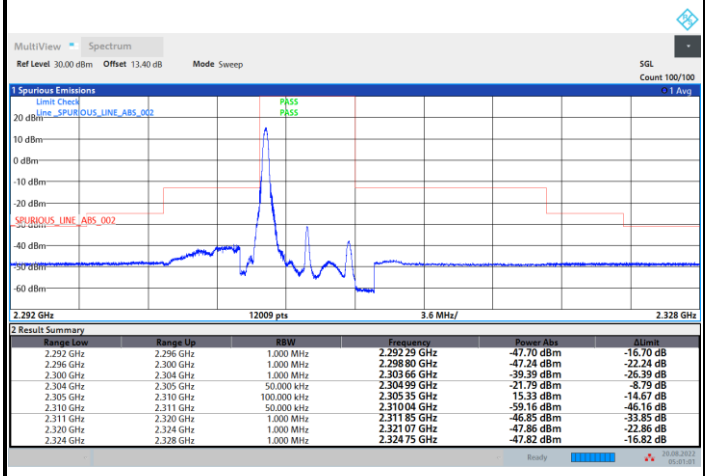


Highest Band Edge / Full RB

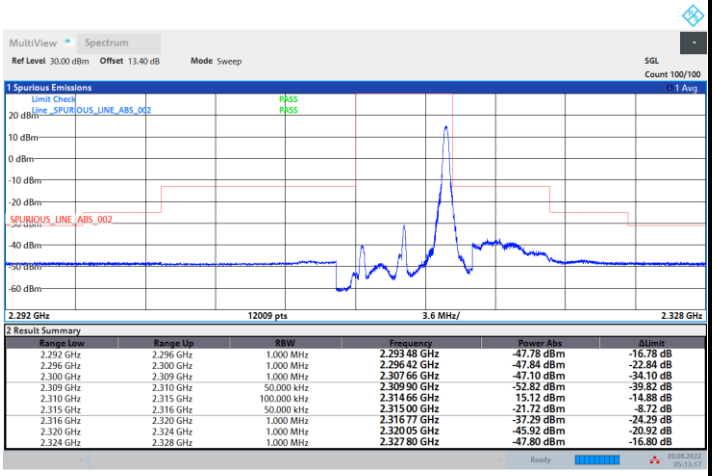


FR1 n30 / 5MHz / DFT-S OFDM / 256QAM

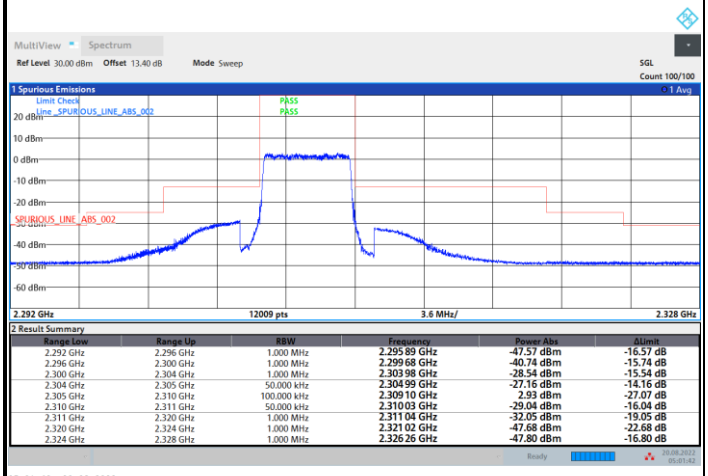
Lowest Band Edge / 1RB0



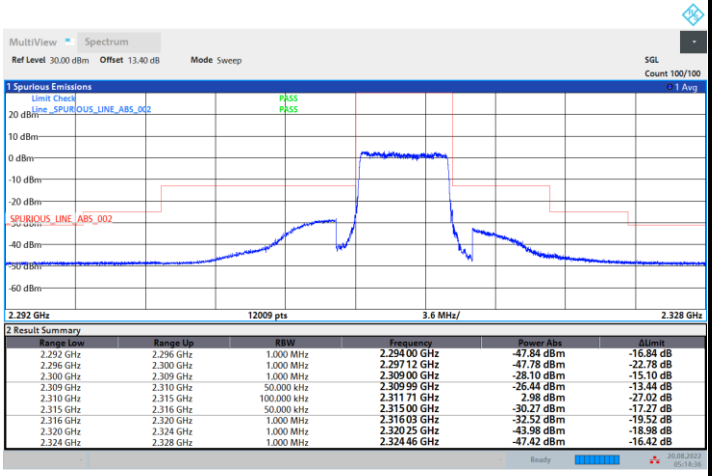
Highest Band Edge / 1RBmax

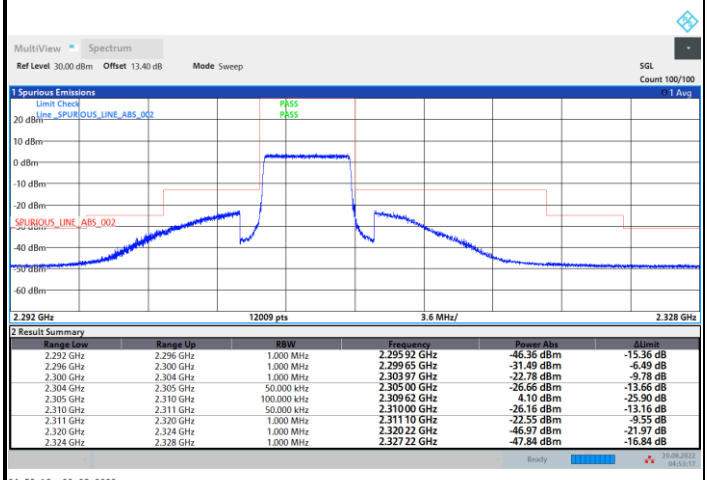
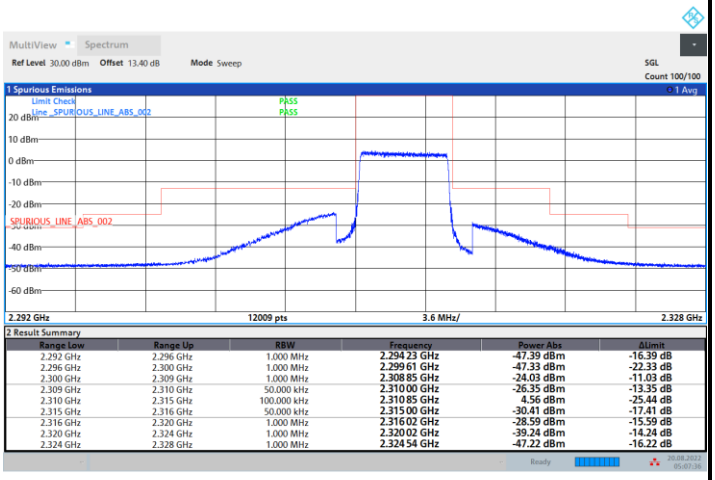


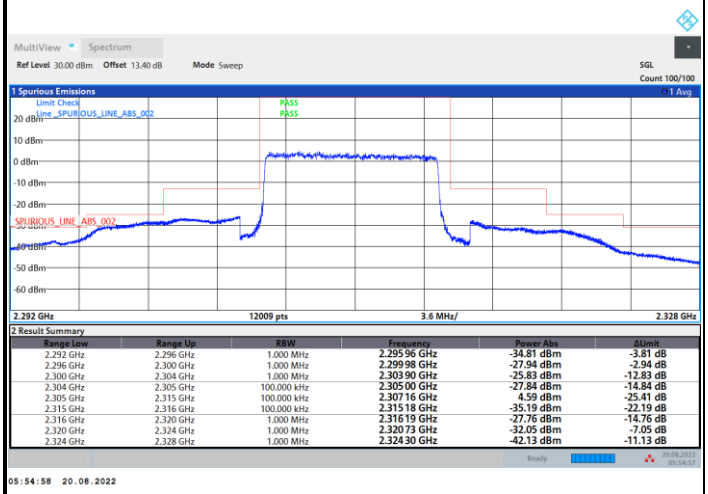
Lowest Band Edge / Full RB

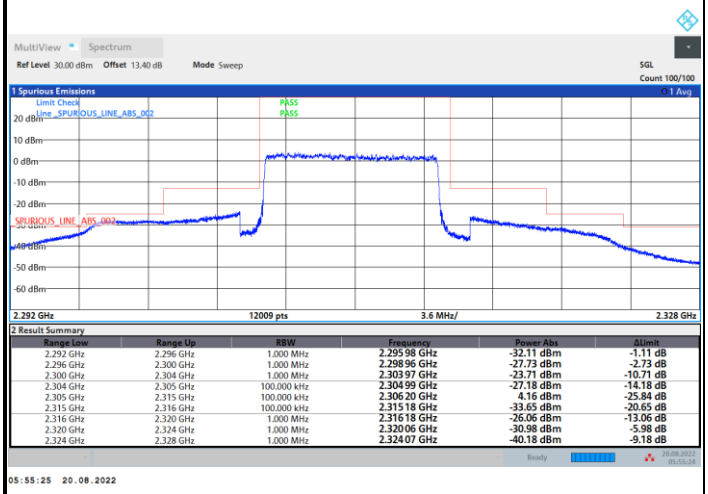


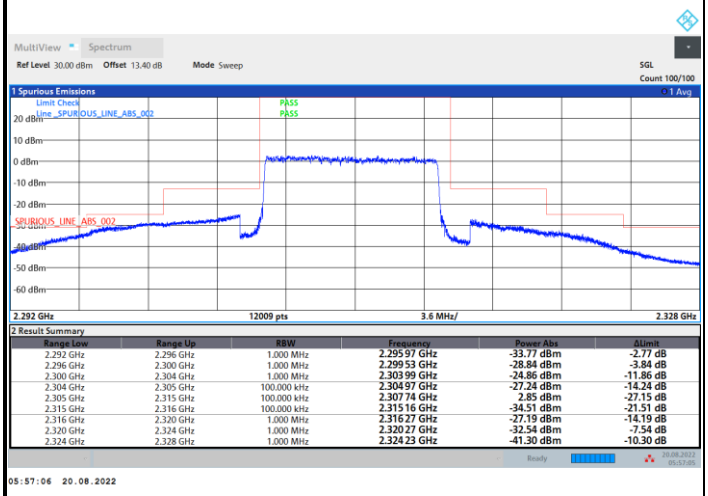
Highest Band Edge / Full RB

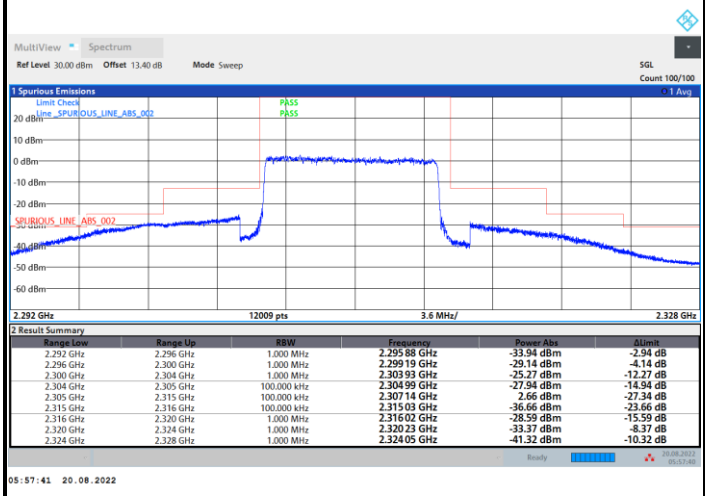


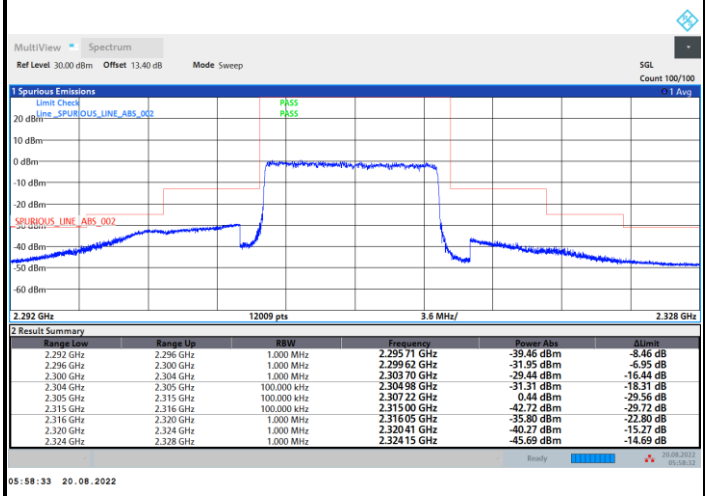
FR1 n30 / 5MHz / CP OFDM / QPSK / Full RB	
Lowest Band Edge	**Highest Band Edge**
	

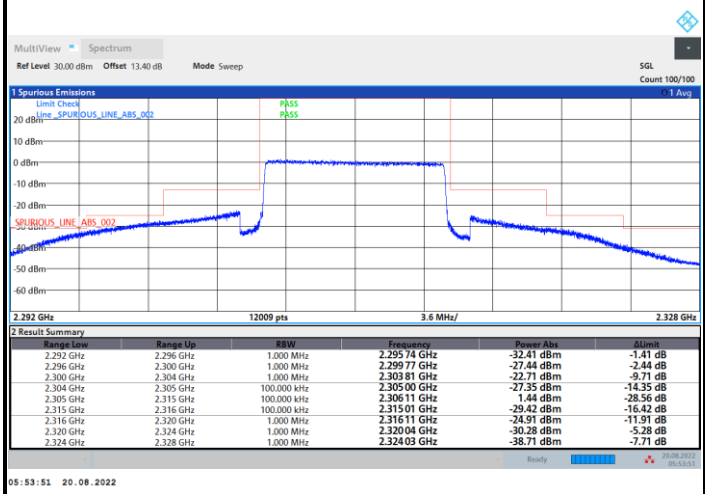
FR1 n30 / 10MHz / DFT-s-OFDM / PI/2 BPSK	
Middle Band Edge / Full RB	
	

FR1 n30 / 10MHz / DFT-s-OFDM / QPSK	
Middle Band Edge / Full RB	
	

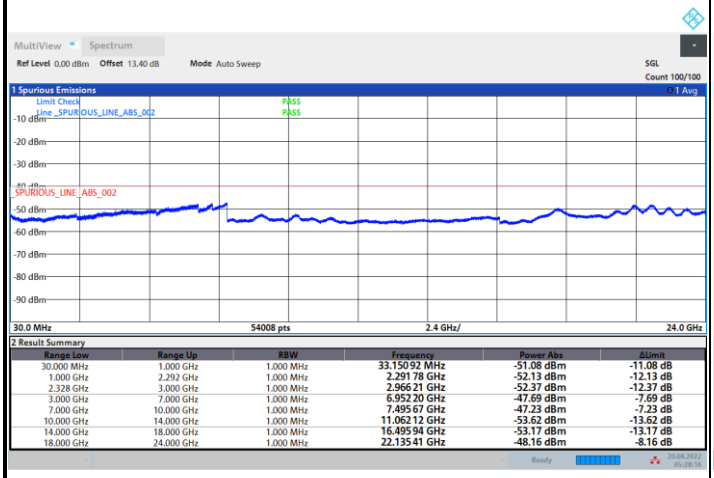
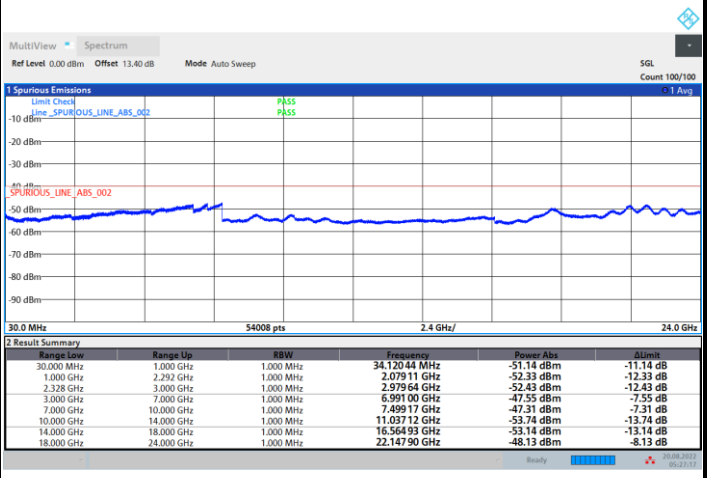
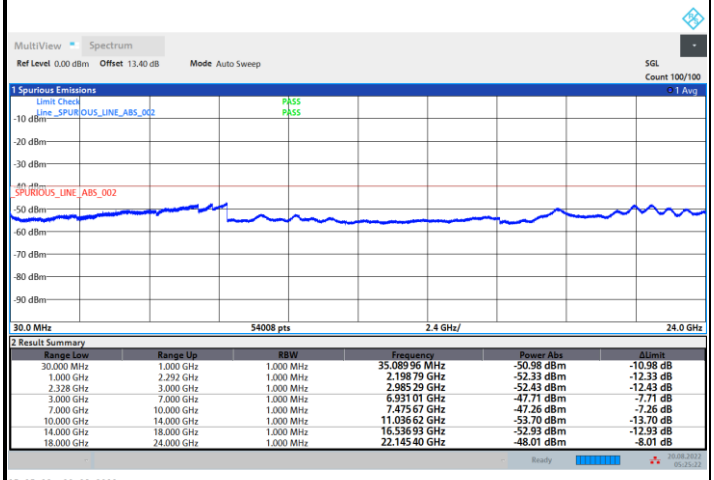
FR1 n30 / 10MHz / DFT-s-OFDM / 16QAM	
Middle Band Edge / Full RB	
	

FR1 n30 / 10MHz / DFT-s-OFDM / 64QAM	
Middle Band Edge / Full RB	
	

FR1 n30 / 10MHz / DFT-s-OFDM / 256QAM	
Middle Band Edge / Full RB	
	

FR1 n30 / 10MHz / CP OFDM / QPSK / Full RB	
Middle Band Edge / Full RB	
	

Conducted Spurious Emission

FR1 n30 / 5MHz / DFT-S OFDM / QPSK / 1RB1	
Lowest Channel	**Middle Channel**
	
Highest Channel	
	

Frequency Stability

Test Conditions		FR1 n30 (BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0035	PASS
40	Normal Voltage	0.0013	
30	Normal Voltage	0.0024	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0039	
0	Normal Voltage	0.0013	
-10	Normal Voltage	0.0016	
-20	Normal Voltage	0.0016	
-30	Normal Voltage	0.0013	
20	Maximum Voltage	0.0031	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0031	

Note:

1. Normal Voltage = 3.3 V.；Battery End Point (BEP) = 3.135 V.；Maximum Voltage = 3.63 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

Appendix B. Test Results of Radiated Test

<Ant. 0>

5G NR n30

5G NR n30/ 5MHz / PI/2 BPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	4608	-57.87	-40	-17.87	-80.17	-64.67	2.11	8.92	H
	6912	-54.47	-40	-14.47	-81.35	-62.55	2.62	10.69	H
	9216	-51.18	-40	-11.18	-81.1	-61.26	2.53	12.61	H
									H
									H
									H
	4608	-57.43	-40	-17.43	-79.74	-64.23	2.11	8.92	V
	6912	-54.90	-40	-14.90	-81.78	-62.98	2.62	10.69	V
	9216	-51.00	-40	-11.00	-81.34	-61.08	2.53	12.61	V
									V
									V
									V
Middle	4614	-57.53	-40	-17.53	-79.9	-64.34	2.11	8.93	H
	6924	-54.73	-40	-14.73	-81.58	-62.82	2.62	10.71	H
	9234	-51.15	-40	-11.15	-81.17	-61.22	2.53	12.61	H
									H
									H
									H
	4614	-57.39	-40	-17.39	-79.76	-64.2	2.11	8.93	V
	6924	-54.67	-40	-14.67	-81.52	-62.76	2.62	10.71	V
	9234	-50.89	-40	-10.89	-81.32	-60.96	2.53	12.61	V
									V
									V
									V

Highest	4620	-57.64	-40	-17.64	-80.02	-64.46	2.12	8.94	H
	6930	-54.68	-40	-14.68	-81.53	-62.78	2.61	10.72	H
	9240	-50.92	-40	-10.92	-81.01	-60.99	2.53	12.60	H
									H
									H
									H
									H
	4620	-57.14	-40	-17.14	-79.52	-63.96	2.12	8.94	V
	6930	-54.81	-40	-14.81	-81.66	-62.91	2.61	10.72	V
	9240	-50.60	-40	-10.60	-81.11	-60.67	2.53	12.60	V
									V
									V
									V
									V

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

5G NR n30/ 10MHz / PI/2 BPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	4608	-57.77	-40	-17.77	-80.07	-64.57	2.11	8.92	H
	6912	-54.86	-40	-14.86	-81.74	-62.94	2.62	10.69	H
	9216	-51.41	-40	-11.41	-81.33	-61.49	2.53	12.61	H
									H
									H
									H
									H
	4608	-58.06	-40	-18.06	-80.37	-64.86	2.11	8.92	V
	6912	-54.92	-40	-14.92	-81.8	-63	2.62	10.69	V
	9216	-50.85	-40	-10.85	-81.19	-60.93	2.53	12.61	V
									V
									V
									V
									V

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

<Ant. 0 + Ant. 2>

EN-DC 5A-n30A

EN-DC 5A-n30A / 5MHz / PI/2 BPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	4608	-57.73	-40	-17.73	-80	-64.53	2.11	8.92	H
	6912	-54.74	-40	-14.74	-81.65	-62.82	2.62	10.69	H
	9216	-52.15	-40	-12.15	-82.1	-62.23	2.53	12.61	H
									H
									H
									H
	4608	-57.55	-40	-17.55	-79.89	-64.35	2.11	8.92	V
	6912	-54.58	-40	-14.58	-81.55	-62.66	2.62	10.69	V
	9216	-51.71	-40	-11.71	-82.07	-61.79	2.53	12.61	V
									V
									V
									V
Middle	4614	-57.72	-40	-17.72	-80.01	-64.53	2.11	8.93	H
	6924	-54.88	-40	-14.88	-81.82	-62.97	2.62	10.71	H
	9234	-51.55	-40	-11.55	-81.64	-61.62	2.53	12.61	H
									H
									H
									H
	4614	-57.61	-40	-17.61	-79.89	-64.42	2.11	8.93	V
	6924	-54.63	-40	-14.63	-81.47	-62.72	2.62	10.71	V
	9234	-51.72	-40	-11.72	-82.16	-61.79	2.53	12.61	V
									V
									V
									V

Highest	4620	-56.97	-40	-16.97	-79.3	-63.79	2.12	8.94	H
	6930	-54.38	-40	-14.38	-81.31	-62.48	2.61	10.72	H
	9234	-51.94	-40	-11.94	-81.96	-62.01	2.53	12.61	H
									H
									H
									H
	4620	-56.81	-40	-16.81	-79.35	-63.63	2.12	8.94	V
	6930	-54.55	-40	-14.55	-81.37	-62.65	2.61	10.72	V
	9234	-51.27	-40	-11.27	-81.65	-61.34	2.53	12.61	V
									V
									V
									V

Remark:

1. Spurious emissions within 30-1000MHz were found more than 20dB below line.
2. Test combination is EN-DC B5 + N30 (Antenna 0+2)

EN-DC 5A-n30A / 10MHz / PI/2 BPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	4608	-57.56	-40	-17.56	-79.83	-64.36	2.11	8.92	H
	6912	-54.87	-40	-14.87	-81.63	-62.95	2.62	10.69	H
	9216	-52.06	-40	-12.06	-81.99	-62.14	2.53	12.61	H
									H
									H
									H
									H
	4608	-57.46	-40	-17.46	-79.77	-64.26	2.11	8.92	V
	6912	-54.84	-40	-14.84	-81.69	-62.92	2.62	10.69	V
	9216	-51.68	-40	-11.68	-82.01	-61.76	2.53	12.61	V
									V
									V
									V
									V

Remark:

1. Spurious emissions within 30-1000MHz were found more than 20dB below line.
2. Test combination is EN-DC B5 + N30 (Antenna 0+2)