



Report No.: FG271554K

FCC RADIO TEST REPORT

FCC ID : UZ7TC78A1

Equipment : Touch Computer

Brand Name : Zebra : TC78A1 **Model Name**

: Zebra Technologies Corporation **Applicant**

1 Zebra Plaza, Holtsville, NY 11742

Manufacturer : Zebra Technologies Corporation

1 Zebra Plaza, Holtsville, NY 11742

Standard : FCC 47 CFR Part 2, 96

The product was received on Aug. 09, 2022 and testing was performed from Aug. 17, 2022 to Oct. 06, 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.

Approved by: Louis Wu

Louis Win

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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Appendix B. Test Results of Radiated Test

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Report Template No.: BU5-FGLTE96 Version 2.4

History of this test report

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Report No.	Version	Description	Issued Date
FG271554K	01	Initial issue of report	Oct. 21, 2022

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Summary of Test Result

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Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	§2.1046	Conducted Output Power	Reporting only	-
3.3	§96.41	Peak-to-Average Ratio	Pass	-
3.4	§96.41	Effective Isotropic Radiated Power	Pass	-
3.5	§2.1049 §96.41	Occupied Bandwidth	Reporting only	-
3.6	§2.1051 §96.41	Conducted Band Edge Measurement	Pass	-
3.7	§2.1051 §96.41	Conducted Spurious Emission	Pass	-
3.8	§2.1055	Frequency Stability for Temperature & Voltage	Pass	-
4.4	§2.1051 §96.41	Radiated Spurious Emission	Pass	Under limit 7.10 dB at 10987.000 MHz

Declaration of Conformity:

- 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: Wei Chen

Report Producer: Michelle Chen

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1 General Description

1.1 Product Feature of Equipment Under Test

1	Product Feature
Equipment	Touch Computer
Brand Name	Zebra
Model Name	TC78A1
FCC ID	UZ7TC78A1
Sample 1	SE5500 + Premium config
Sample 2	SE4770 + Base config
Sample 3	SE5500 + Base config
	GSM/EGPRS/WCDMA/HSPA/LTE/5G NR/NFC/GNSS
	WLAN 11a/b/g/n HT20/HT40
EUT supports Radios application	WLAN 11ac VHT20/VHT40/VHT80/VHT160
	WLAN 11ax HE20/HE40/HE80/HE160
	Bluetooth BR/EDR/LE
HW Version	EV2
SW Version	athena_A11_userdebug_GMS_RelKey_2022-07-14-173 3_product_SE
MFD	11JUN22
EUT Stage	Identical Prototype

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Remark: The above EUT's information was declared by manufacturer.

Specification of Accessories							
Adapter	Brand Name	Zebra	Part Number	PWR-WUA5V12W0US			
Battery 1X	Brand Name	Zebra	Part Number	BT-000442-0020			
Battery 1.5X	Brand Name	Zebra	Part Number	BT-000442-0820			
Wireless Battery	Brand Name	Zebra	Part Number	BT-000442-002A			
USB TYPE A to TYPE C cable	Brand Name	Zebra	Part Number	CBL-TC5X-USBC2A-01			
USB TYPE C to 3.5mm audio connector	Brand Name	Zebra	Part Number	ADP-USBC-35MM1-01			
3.5mm Earphone	Brand Name	Zebra	Part Number	HDST-35MM-PTVP-01			
USB TYPE C Earphone	Brand Name	Zebra	Part Number	HPST-USBC-PTT1-01			
Trigger Handle	Brand Name	Zebra	Part Number	TRG-NGTC5-ELEC-01			
Soft Holster	Brand Name	Zebra	Part Number	SG-NGTC5TC7-HLSTR-01			
TC53/TC58 RUGGED BOOT	Brand Name	Zebra	Part Number	SG-NGTC5EXO1-01			

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1.2 Product Specification of Equipment Under Test

Product Specification is subject to this standard					
Tx Frequency	3552 MHz ~ 3694.98 MHz				
Rx Frequency	3552 MHz ~ 3694.98 MHz				
Bandwidth	10 MHz / 20 MHz / 40 MHz				
Maximum Output Power to Antenna	22.45 dBm				
Antenna Type	<ant. 11="">: PIFA Antenna</ant.>				
Antenna Type	<ant. 12="">: PIFA Antenna</ant.>				
Antenna Gain	<ant. 11=""></ant.> : -0.48 dBi				
Antenna Gam	<ant. 12=""></ant.> : 0.43 dBi				
Type of Modulation	PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM				

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

1.3 Modification of EUT

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

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1.4 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.				
Test Site No.	TH03-HY				
Test Engineer	Sherry Wu and Luffy Lin				
Temperature (°C)	23.5~25.0				
Relative Humidity (%)	48~52				

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Test Site	Sporton International Inc. Wensan Laboratory		
	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)		
Test Site Location	TEL: +886-3-327-0868		
	FAX: +886-3-327-0855		
Test Site No.	Sporton Site No.		
rest site No.	03CH12-HY (TAF Code: 3786)		
Test Engineer	Jack Cheng, Wilson Wu, Jesse Fan and Tim Lee		
Temperature (°C)	20~25		
Relative Humidity (%)	50~60		
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

1.5 Applied Standards

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

- + ANSI C63.26-2015
- ◆ ANSI / TIA-603-E
- FCC 47 CFR Part 2, 96
- FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- FCC KDB 940660 D01 Part 96 CBRS Eqpt v03
- 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.

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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.

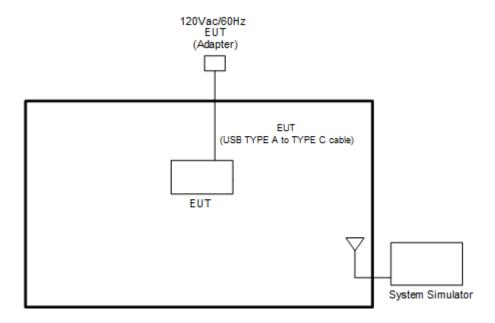
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For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.26 exploratory test procedures and only the worst case emissions were reported in this report.

Test Items	Band	Bar	ndwid	lth (M				Modula		010 1000	RB#			Test Channel		
rest items	Ballu	10	15	20	40	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	1	Half	Full	L	М	н
Max. Output Power	n48	v	-	v	v	v	v	v	v	v	v	v	v	٧	v	v
26dB and 99% Bandwidth	n48	v	•	v	v	v	v	v	v	v			v		٧	
Conducted Band Edge	n48	v	ı	v	v	v	v	v	v	v	>		v	v	v	v
Peak-to-Average Ratio	n48		1	v		v	v	v	v	v			v		٧	
Conducted Spurious Emission	n48	v	-	v	v		v				٧			v	v	v
E.I.R.P	n48	v	-	v	v	v	v	v	v	v	Max. Power					
Frequency Stability	n48		1	v		v					٧				٧	
Radiated Spurious Emission	n48						w	orst Cas	е					v	v	٧
Remark	 The mark "v" means that this configuration is chosen for testing The mark "-" means that this bandwidth is not supported. 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. All the radiated test cases were performed with Battery 1X and Sample 1. 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. Test combination is EN-DC 66A_n48A. One representative bandwidth is selected to perform PAR and frequency stability. 															

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2.2 Connection Diagram of Test System



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2.3 Support Unit used in test configuration

Item	Equipment	Brand Name	Model No.	FCC ID	Data Cable	Power Cord
1	5G Wireless Test	Anritsu	MT8000A	N/A	N/A	Unshielded, 1.8 m
'-	Platform	Aiiiisu	WITOOOOA	IN/A	11/7	Orisiniciaca, 1.0 iii

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)

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2.5 Frequency List of Low/Middle/High Channels

5G NR n48 Channel and Frequency List								
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest				
40	Channel	638000	641666	645332				
40	Frequency	3570	3624.99	3679.98				
20	Channel	637334	641666	646000				
20	Frequency	3560.01	3624.99	3690				
10	Channel	637000	641666	646332				
10	Frequency	3555	3624.99	3694.98				

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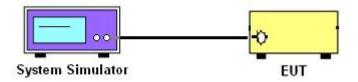
3 Conducted Test Items

3.1 Measuring Instruments

See list of measuring instruments of this test report.

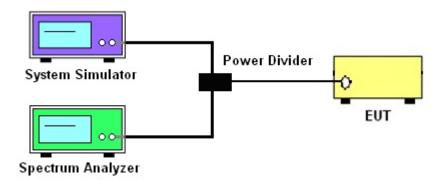
3.1.1 Test Setup

3.1.2 Conducted Output Power

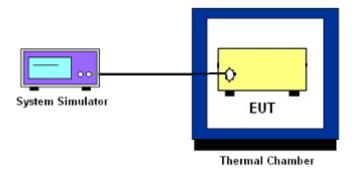


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3.1.3 Peak-to-Average Ratio, Occupied Bandwidth, Conducted Band Edge and Conducted Spurious Emission



3.1.4 Frequency Stability



3.1.5 Test Result of Conducted Test

Please refer to Appendix A.

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3.2 Conducted Output Power

3.2.1 Description of the Conducted Output Power Measurement

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

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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.

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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.

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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

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3.4 EIRP

3.4.1 Description of the EIRP Measurement

The EIRP of mobile transmitters must not exceed 23 dBm /10 megahertz for LTE Band 48.

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The testing follows ANSI C63.26-2015 Section 5.2.5.5

According to KDB 412172 D01 Power Approach,

EIRP = PT + GT - LC, where

PT = transmitter output power in dBm

GT = gain of the transmitting antenna in dBi

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

Device	Maximum EIRP	Maximum PSD		
Device	(dBm/10 MHz)	(dBm/MHz)		
End User Device	23	n/a		

Remark: Total channel power is complied with EIRP limit 23dBm/10MHz.

3.4.2 Test Procedures

The testing follows procedure in Section 5.2 of ANSI C63.26-2015 and KDB 940660 D01 Part 96 CBRS Eqpt v03 Section 3.2(b)(2)

Determine the EIRP by adding the effective antenna gain to the measured average conducted power level.

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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

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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.

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3.6 Conducted Band Edge

3.6.1 Description of Conducted Band Edge Measurement

The conducted power of any End User Device emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed -13 dBm/MHz within 0 to B megahertz (where B is the bandwidth in megahertz of the assigned channel or multiple contiguous channels of the End User Device) above the upper CBSD-assigned channel edge and within 0 to B megahertz below the lower CBSD-assigned channel edge. At all frequencies greater than B megahertz above the upper CBSD assigned channel edge and less than B megahertz below the lower CBSD-assigned channel edge, the conducted power of any End User Device emission shall not exceed -25 dBm/MHz. Notwithstanding the emission limits in this paragraph, the Adjacent Channel Leakage Ratio for End User Devices shall be at least 30 dB.

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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.
- The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

For Adjacent Channel Leakage Ratio (ACLR) measurement,

- The Adjacent Channel Leakage Ratio (ACLR) is the ratio of the average power in the assigned aggregated channel bandwidth to the average power over the equivalent adjacent channel bandwidth.
- 2. The option ACLR of spectrum analyzer is used and measures the ACLR ratio by setting equivalent channel bandwidth.
- 3. The measured ACLR ratio shall be at least 30 dB.

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3.7 Conducted Spurious Emission

3.7.1 Description of Conducted Spurious Emission Measurement

96.41 (e)(2)

The conducted power of any emissions below 3530 MHz or above 3720 MHz shall not exceed -40dBm/MHz.

3.7.2 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.
- 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.

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- 3. The middle channel for the highest RF power within the transmitting frequency was measured.
- 4. The conducted spurious emission for the whole frequency range was taken.
- 5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz.
- 6. Set spectrum analyzer with RMS detector.
- 7. Taking the record of maximum spurious emission.
- 8. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 9. The limit line is -40dBm/MHz.

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3.8 Frequency Stability

3.8.1 Description of Frequency Stability Measurement

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

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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.
- 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 25±5° C and connected with the system simulator.
- 2. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
- 3. The variation in frequency was measured for the worst case.

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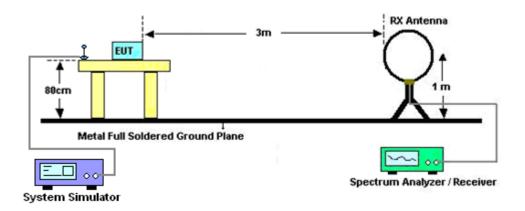
4 Radiated Test Items

4.1 Measuring Instruments

See list of measuring instruments of this test report.

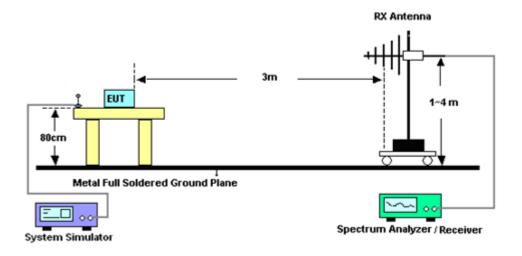
4.2 Test Setup

For radiated emissions below 30MHz



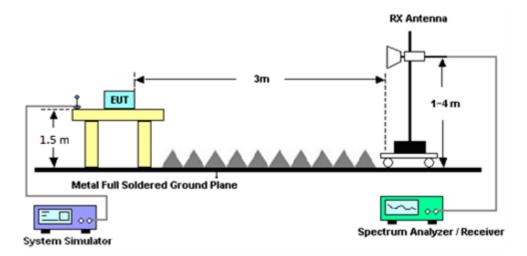
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For radiated emissions from 30MHz to 1GHz



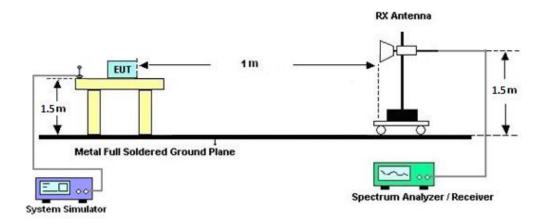
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For radiated emissions from 1GHz to 18GHz



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For radiated emissions above 18GHz



4.3 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.

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4.4 Radiated Spurious Emission

4.4.1 Description of Radiated Spurious Emission Measurement

The radiated spurious emission was measured by substitution method according to ANSI / TIA-603-E.

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The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least -40dBm / MHz.

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

4.4.2 Test Procedures

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.

 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 
 <math>ERP (dBm) = EIRP - 2.15
```

8. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

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5 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Programmable Power Supply	GW Instek	PSS-2005	EL890089	50Hz~60Hz	Feb. 23, 2022	Aug. 17, 2022~ Oct. 06, 2022	Feb. 22, 2023	Conducted (TH03-HY)
Signal Analyzer	Rohde & Schwarz	FSV3044	101048	10Hz~44GHz	May 05, 2022	Aug. 17, 2022~ Oct. 06, 2022	May 04, 2023	Conducted (TH03-HY)
Temperature Chamber	ESPEC	SU-241	92003713	-30°C ~95°C	May 19, 2022	Aug. 17, 2022~ Oct. 06, 2022	May 18, 2023	Conducted (TH03-HY)
System Simulator	Anritsu	MT8000A	6261940327	FR1	Oct. 29, 2021	Aug. 17, 2022~ Oct. 06, 2022	Oct. 28, 2022	Conducted (TH03-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	May 13, 2022	Sep. 08, 2022~ Sep. 26, 2022	May 12, 2023	Radiation (03CH12-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N-06	40103 & 07	30MHz~1GHz	Apr. 24, 2022	Sep. 08, 2022~ Sep. 26, 2022	Apr. 23, 2023	Radiation (03CH12-HY)
Bilog Antenna	TESEQ	CBL 6111D & N-6-06	35414 & AT-N0602	30MHz~1GHz	Oct. 09, 2021	Sep. 08, 2022~ Sep. 26, 2022	Oct. 08, 2022	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-1328	1GHz~18GHz	Dec. 03, 2021	Sep. 08, 2022~ Sep. 26, 2022	Dec. 02, 2022	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-1212	1GHz~18GHz	Mar. 10, 2022	Sep. 08, 2022~ Sep. 26, 2022	Mar. 09, 2023	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA9170251	18GHz~40GHz	Nov. 30, 2021	Sep. 08, 2022~ Sep. 26, 2022	Nov. 29, 2022	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA9170576	18GHz~40GHz	May 14, 2022	Sep. 08, 2022~ Sep. 26, 2022	May 13, 2023	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA9170576	18GHz~40GHz	May 14, 2022	Sep. 08, 2022~ Sep. 26, 2022	May 13, 2023	Radiation (03CH12-HY)
Preamplifier	COM-POWER	PA-103	161075	10MHz~1GHz	Mar. 23, 2022	Sep. 08, 2022~ Sep. 26, 2022	Mar. 22, 2023	Radiation (03CH12-HY)
Preamplifier	Aglient	8449B	3008A02375	1GHz~26.5GHz	May 24, 2022	Sep. 08, 2022~ Sep. 26, 2022	May 23, 2023	Radiation (03CH12-HY)
Preamplifier	E-INSTRUME NT TECH LTD.	ERA-100M-18G-5 6-01-A70	EC1900270	1GHz-18GHz	Dec. 27, 2021	Sep. 08, 2022~ Sep. 26, 2022	Dec. 26, 2022	Radiation (03CH12-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz~40GHz	Dec. 24, 2021	Sep. 08, 2022~ Sep. 26, 2022	Dec. 23, 2022	Radiation (03CH12-HY)
Spectrum Analyzer	Keysight	N9010A	MY53470118	10Hz~44GHz	Jan. 12, 2022	Sep. 08, 2022~ Sep. 26, 2022	Jan. 11, 2023	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	9kHz~30MHz	Mar. 10, 2022	Sep. 08, 2022~ Sep. 26, 2022	Mar. 09, 2023	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0058/126E	30MHz~18GHz	Dec. 10, 2021	Sep. 08, 2022~ Sep. 26, 2022	Dec. 09, 2022	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30MHz~40GHz	Feb. 21, 2022	Sep. 08, 2022~ Sep. 26, 2022	Feb. 20, 2023	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803953/2	30MHz~40GHz	Mar. 08, 2022	Sep. 08, 2022~ Sep. 26, 2022	Mar. 07, 2023	Radiation (03CH12-HY)
Filter	Wainwright	WHKX12-1080-12 00-15000-60SS	SN1	1.2GHz High Pass Filter	Mar. 15, 2022	Sep. 08, 2022~ Sep. 26, 2022	Mar. 14, 2023	Radiation (03CH12-HY)
Filter	Wainwright	WHKX12-2700-30 00-18000-60ST	SN2	3GHz High Pass Filter	Jul. 11, 2022	Sep. 08, 2022~ Sep. 26, 2022	Jul. 10, 2023	Radiation (03CH12-HY)
Filter	Wainwright	WLKS1200-12SS	SN2	1.2GHz Low Pass Filter	Mar. 15, 2022	Sep. 08, 2022~ Sep. 26, 2022	Mar. 14, 2023	Radiation (03CH12-HY)
Filter	Wainwright	WHKX8-5872.5-6 750-18000-40ST	SN2	6.75GHz High Pass Filter	Mar. 16, 2022	Sep. 08, 2022~ Sep. 26, 2022	Mar. 15, 2023	Radiation (03CH12-HY)
Hygrometer	TECPEL	DTM-303B	TP140349	N/A	Sep. 30, 2021	Sep. 08, 2022~ Sep. 26, 2022	Sep. 29, 2022	Radiation (03CH12-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Sep. 08, 2022~ Sep. 26, 2022	N/A	Radiation (03CH12-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Sep. 08, 2022~ Sep. 26, 2022	N/A	Radiation (03CH12-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Sep. 08, 2022~ Sep. 26, 2022	N/A	Radiation (03CH12-HY)
Software	Audix	E3 6.2009-8-24	RK-000989	N/A	N/A	Sep. 08, 2022~ Sep. 26, 2022	N/A	Radiation (03CH12-HY)

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6 Uncertainty of Evaluation

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

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

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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))	3.25 dB

<u>Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)</u>

Measuring Uncertainty for a Level of	3.81 dB
Confidence of 95% (U = 2Uc(y))	3.61 UB

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Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power) and EIRP

	N	IR n48 Ma	ximum Avera	age Power	[dBm] (GT	- LC = -0.4	48 dB)	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
10	1	1		22.13	22.39	22.04		
10	1	22		22.15	22.41	22.04		
10	12	6	PI/2 BPSK	22.17	22.45	22.07		
10	1	0	2 3. G.K	21.67	21.91	21.55		
10	1	23		21.56	21.84	21.50		0.1574
10	24	0		21.68	21.93	21.56	21.97	
10	1	1		22.15	22.35	22.01		
10	1	22		22.15	22.35	22.03		
10	12	6	QPSK	22.21	22.42	22.07		
10	1	0	QF 5R	21.14	21.34	21.04		
10	1	23		21.09	21.35	20.98		
10	24	0		21.17	21.41	21.07		
10	1	1	16-QAM	20.94	21.23	20.87		
10	1	1	64-QAM	19.75	19.87	19.57	20.75	0.1189
10	1	1	256-QAM	17.56	17.67	17.42		
Limit	EIRP	o < 23dBm/	10MHz		Result		Pa	ISS

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	N	IR n48 Ma	ximum Avera	age Power	[dBm] (GT	- LC = -0.4	48 dB)	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
20	1	1		18.01	18.27	17.82		
20	1	49		18.21	18.21	17.71		0.1387
20	25	12	PI/2 BPSK	18.05	18.34	17.78		
20	1	0	r II 2 Br GR	21.66	21.90	21.43		
20	1	50		21.78	21.78	21.31		
20	50	0		18.12	18.27	17.84	21.42	
20	1	1		18.02	18.28	17.87		
20	1	49		18.13	18.12	17.78		
20	25	12	QPSK	18.07	18.32	17.83		
20	1	0	QPSK	21.12	21.38	20.85		
20	1	50		21.24	21.28	20.71		
20	50	0		18.12	18.27	17.83		
20	1	1	16-QAM	16.82	18.34	17.72		
20	1	1	64-QAM	17.12	18.34	17.91	17.86	0.0611
20	1	1	256-QAM	17.42	17.81	17.25	1	
Limit	EIRF	o < 23dBm/	/10MHz		Result		Pa	ISS

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	N	IR n48 Ma	ximum Avera	age Power	[dBm] (GT	- LC = -0.	48 dB)	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
40	1	1		11.56	18.12	11.61		0.1374
40	1	104		11.74	18.14	11.56		
40	50	25	PI/2 BPSK	11.72	18.29	11.62		
40	1	0	rii2 Br3N	21.62	21.81	21.47		
40	1	105		21.86	21.71	21.52		
40	100	0		11.67	18.17	11.61	21.38	
40	1	1		11.47	18.14	11.52		
40	1	104		11.78	18.15	11.58		
40	50	25	QPSK	11.71	18.18	11.62		
40	1	0	Qr3N	21.11	21.27	20.97		
40	1	105		21.28	21.17	21.00		
40	100	0		11.72	18.12	11.62		
40	1	1	16-QAM	10.91	18.09	10.85		
40	1	1	64-QAM	11.09	18.15	11.07	17.67	0.0585
40	1	1	256-QAM	11.01	17.59	11.02		
Limit	EIRF	o < 23dBm/	/10MHz		Result		Pa	ISS

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FR1 n48

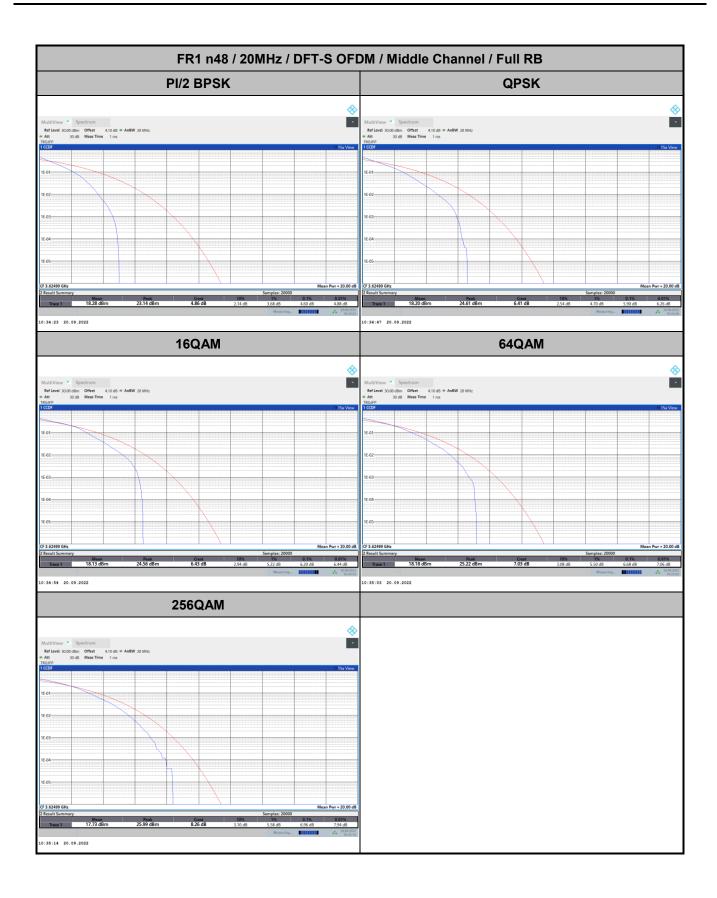
Peak-to-Average Ratio

Mode		FR1 n48 / 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	4.60	5.90	6.20	6.68	PASS					
Mode		FR1 n48 / 20MH	z / DFT-S OFDM							
Mod.	256QAM				Limit: 13dB					
RB Size	Full RB				Result					
Middle CH	6.96				PASS					

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26dB Bandwidth

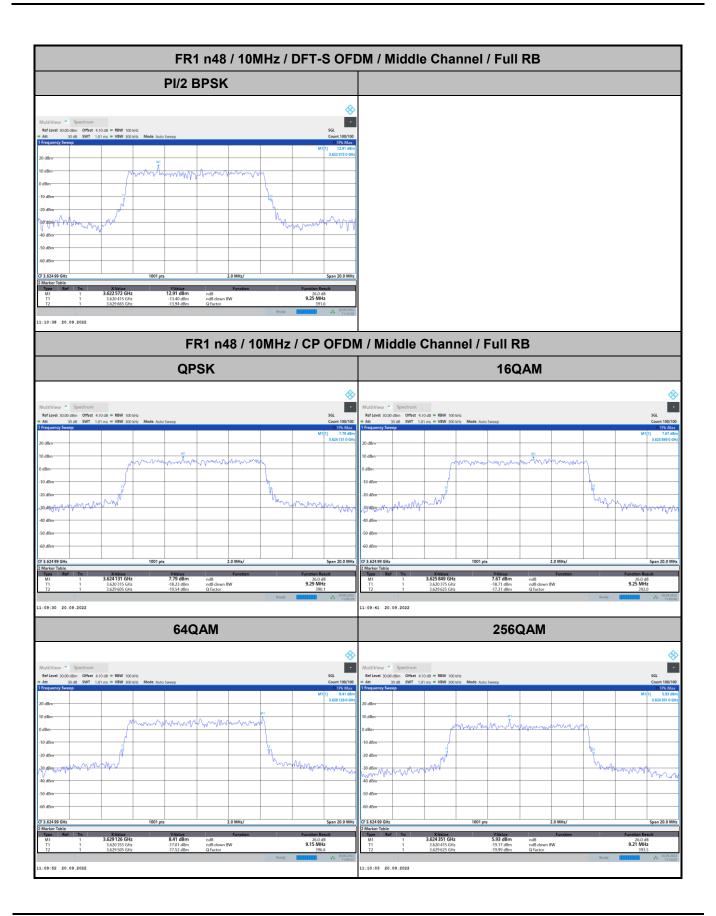
Mode		FR1 n48 : 26dB BW(MHz) / DFT-S OFDM								
BW	10MHz	15MHz	20MHz	30MHz	40MHz	50MHz	60MHz	70MHz		
Mod.	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK		
Middle CH	9.25	-	18.94	-	38.12	-	-	-		
BW	80MHz	90MHz	100MHz							
Mod.	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK							
Middle CH	-	-	-							

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Mode			FR1 n	48 : 26dB BV	V(MHz) / CP	OFDM		
BW	101	ИHz	15MHz		20MHz		30MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	9.29	9.25	-	-	19.14	19.18	-	-
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	9.15	9.21	-	-	19.10	19.34	-	-
BW	40MHz		501	ИНz	60MHz		70MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	40.36	40.36	-	-	-	-	-	-
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	40.36	40.36	-	-	-	-	-	-
BW	801	ИHz	901	ИHz	100MHz			
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM		
Middle CH	-	-	-	-	-	-		
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM		
Middle CH	-	-	-	-	-	-		

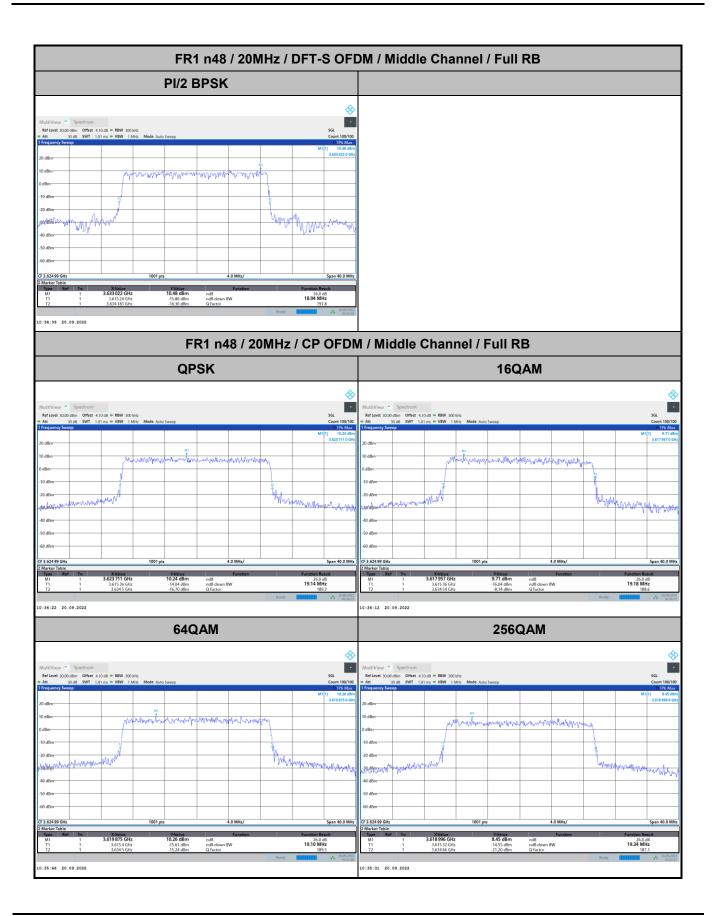
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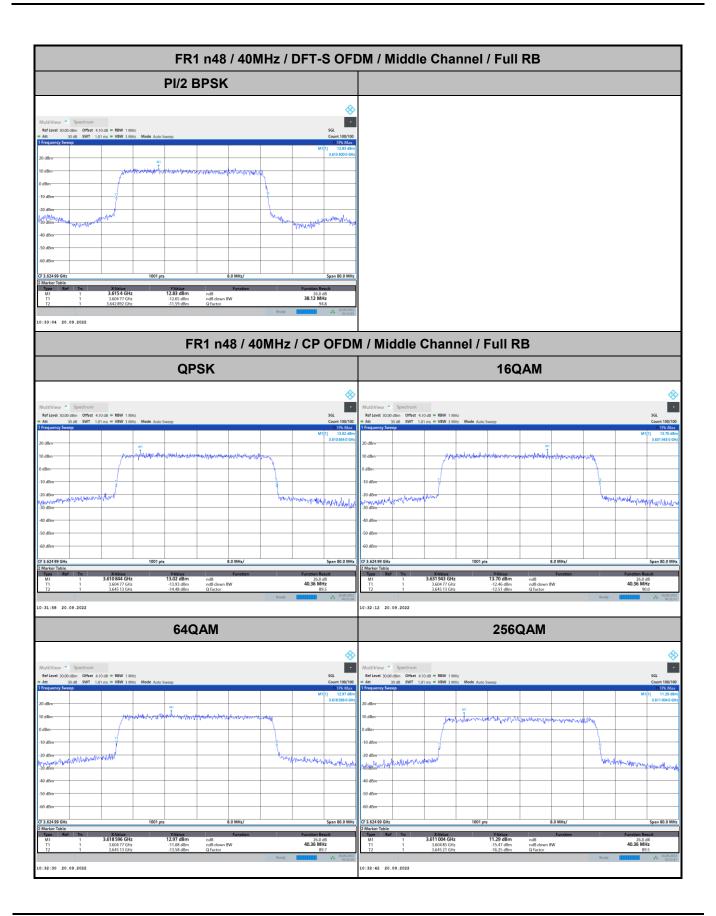
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Occupied Bandwidth

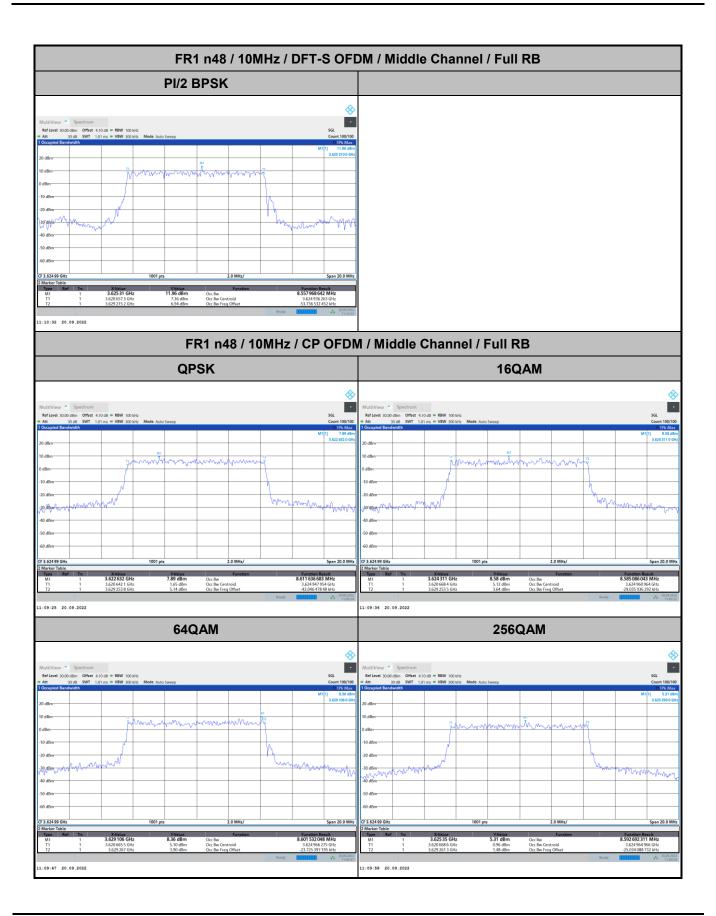
Mode		FR1 n48 : OB BW(MHz) / DFT-S OFDM										
BW	10MHz	10MHz 15MHz 20MHz 30MHz 40MHz 50MHz 60MHz 70MHz										
Mod.	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK				
Middle CH	8.55	-	17.90	-	35.99	-	-	-				
BW	80MHz	90MHz	100MHz									
Mod.	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK									
Middle CH	-	-	-									

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Mode			FR1	n48 : OB BW	(MHz) / CP (OFDM		
BW	101	ИHz	15MHz		20MHz		30MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	8.61	8.58	-	-	18.17	18.20	-	-
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	8.60	8.59	-	-	18.30	18.20	-	-
BW	40MHz		501	ИНz	60MHz		70MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	38.01	38.01	-	-	-	-	-	-
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	37.89	38.09	-	-	-	-	-	-
BW	801	ИHz	901	ИHz	100	100MHz		
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM		
Middle CH	-	-	-	-	-	-		
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM		
Middle CH	-	-	-	-	-	-		

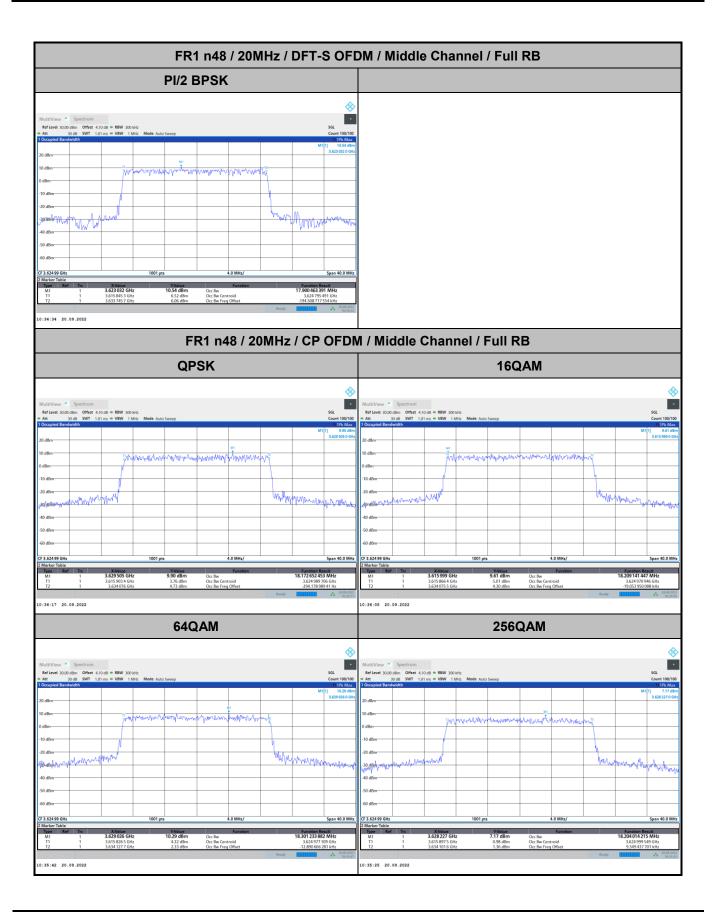
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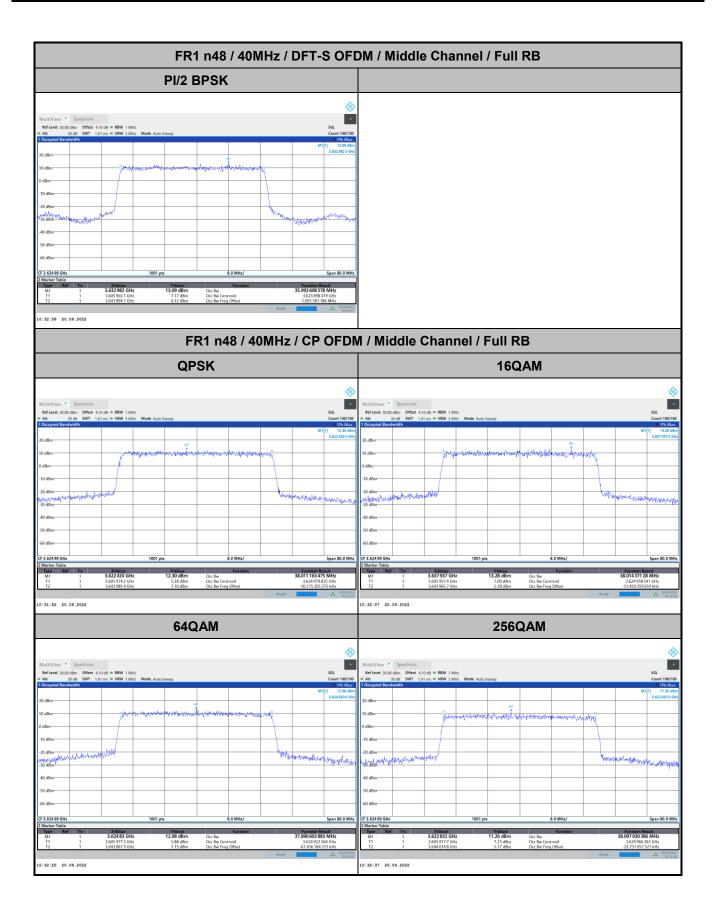
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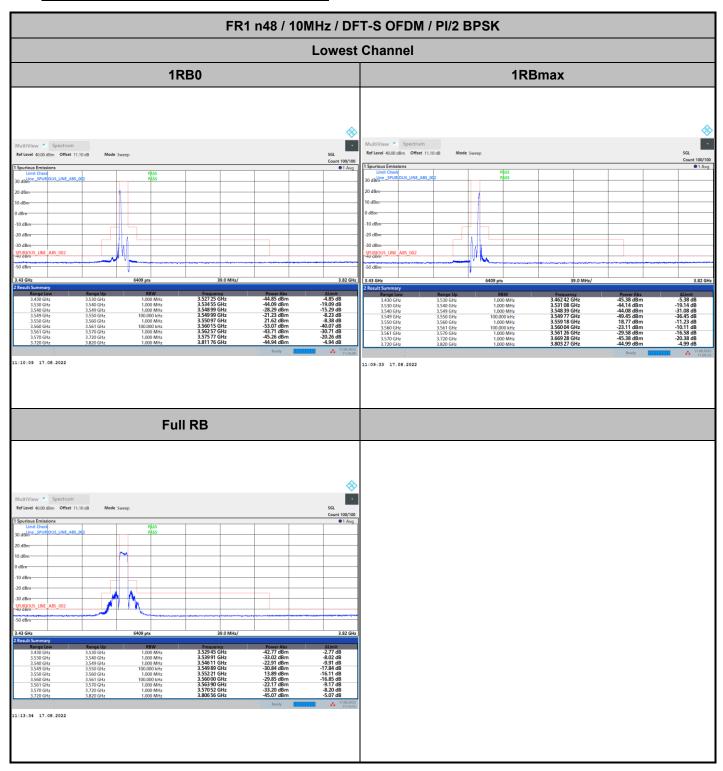
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Unwanted Emission (MASK)



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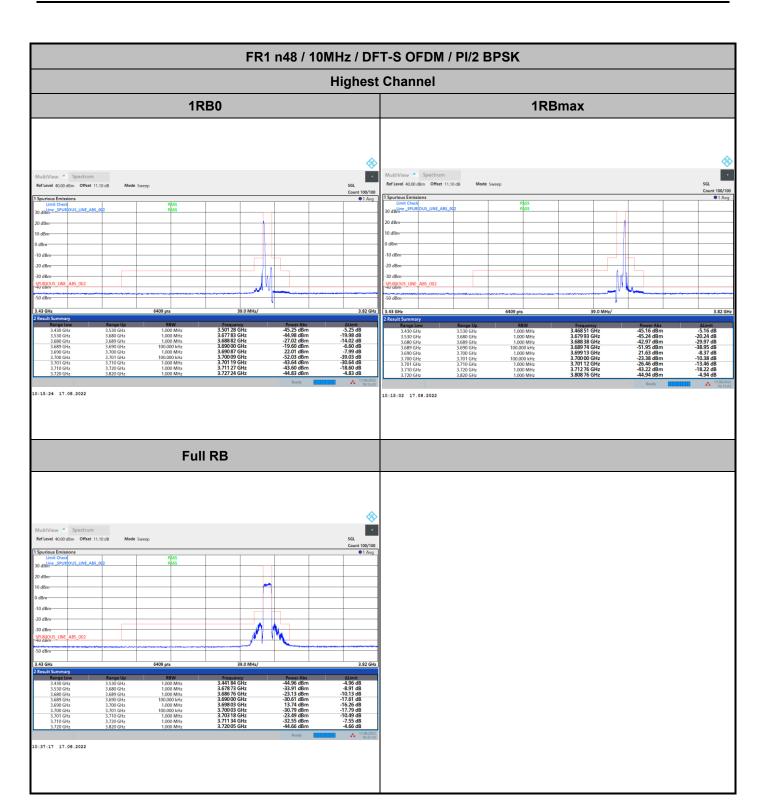
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FR1 n48 / 10MHz / DFT-S OFDM / PI/2 BPSK **Middle Channel** 1RB0 1RBmax MultiView Spectrum

Ref Level 40.00 dBm Offset 11.10 dB 10 dBm -10 dBm SPURIOUS LINE ABS 002 PURIOUS_LINE_ABS_002 3.43 GHz 0:59:17 17.08.2022 Full RB Ref Level 40.00 dBm Offset 11.10 dB 3.443 84 GHz 3.609 08 GHz 3.616 24 GHz 3.620 00 GHz 3.62774 GHz 3.630 00 GHz 3.633 33 GHz 3.640 84 GHz 3.806 86 GHz Power Abs -45.39 dBm -33.66 dBm -22.93 dBm -30.48 dBm 14.67 dBm -30.49 dBm -22.47 dBm -33.69 dBm -45.05 dBm -5.39 dB -8.66 dB -9.93 dB -17.48 dB -15.33 dB -17.49 dB -9.47 dB -8.69 dB -5.05 dB 0:53:12 17.08.2022

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FR1 n48 / 10MHz / DFT-S OFDM / QPSK **Lowest Channel** 1RB0 1RBmax MultiView Spectrum

Ref Level 40.00 dBm Offset 11.10 dB 10 dBm -10 dBm SPURIOUS LINE ABS 002 PURIOUS_LINE_ABS_002 1:10:28 17.08.2022 Full RB Ref Level 40.00 dBm Offset 11.10 dB Power Abs -41.51 dBm -30.78 dBm -22.49 dBm -29.61 dBm 13.79 dBm -29.74 dBm -22.22 dBm -32.87 dBm -44.97 dBm 1:12:41 17.08.2022

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FR1 n48 / 10MHz / DFT-S OFDM / QPSK **Middle Channel** 1RB0 1RBmax MultiView Spectrum

Ref Level 40.00 dBm Offset 11.10 dB 10 dBm 10 dBm -10 dBm SPURIOUS LINE ABS 002 PURIOUS_LINE_ABS_002 3.43 GHz 0:57:50 17.08.2022 Full RB Ref Level 40.00 dBm Offset 11.10 dB Power Abs -45.11 dBm -33.49 dBm -22.13 dBm -30.77 dBm 13.67 dBm -29.24 dBm -22.77 dBm -34.07 dBm -45.02 dBm 0:53:59 17.08.2022

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FR1 n48 / 10MHz / DFT-S OFDM / QPSK **Highest Channel** 1RB0 1RBmax MultiView Spectrum

Ref Level 40.00 dBm Offset 11.10 dB 10 dBm -10 dBm SPURIOUS LINE ABS 002 PURIOUS_LINE_ABS_002 10:16:10 17.08.2022 Full RB Ref Level 40.00 dBm Offset 11.10 dB 0:33:35 17.08.2022

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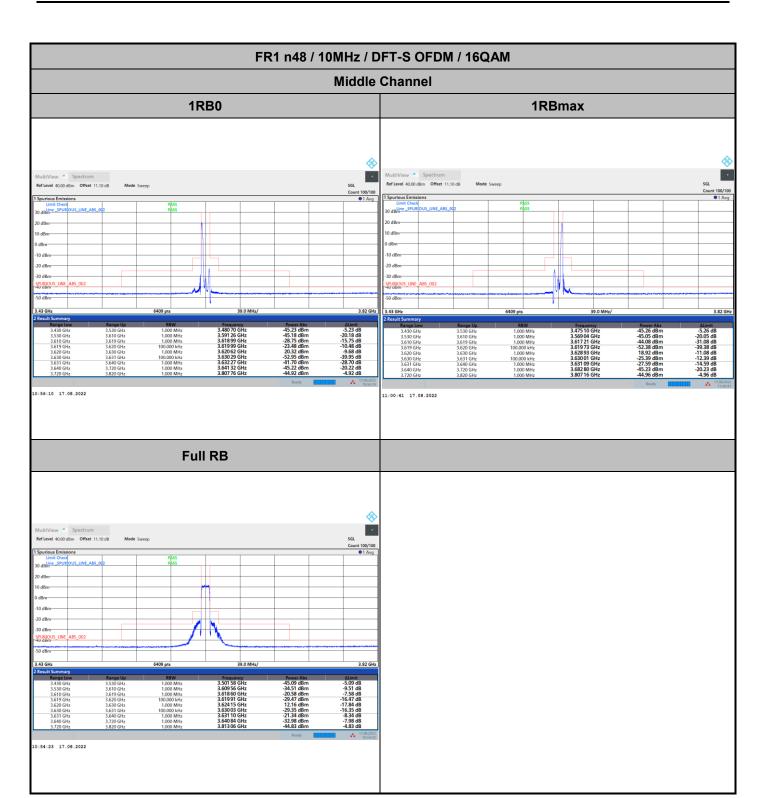
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FR1 n48 / 10MHz / DFT-S OFDM / 16QAM **Lowest Channel** 1RB0 1RBmax MultiView Spectrum

Ref Level 40.00 dBm Offset 11.10 dB 10 dBm -10 dBm SPURIOUS LINE ABS 002 PURIOUS_LINE_ABS_002 11:10:57 17.08.2022 Full RB Ref Level 40.00 dBm Offset 11.10 dB 1:12:17 17.08.2022

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FR1 n48 / 10MHz / DFT-S OFDM / 16QAM **Highest Channel** 1RB0 1RBmax MultiView Spectrum

Ref Level 40.00 dBm Offset 11.10 dB 10 dBm -10 dBm SPURIOUS LINE ABS 002 PURIOUS_LINE_ABS_002 10:16:32 17.08.2022 Full RB Ref Level 40.00 dBm Offset 11.10 dB 0:32:13 17.08.2022

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FR1 n48 / 10MHz / DFT-S OFDM / 64QAM **Lowest Channel** 1RB0 1RBmax MultiView Spectrum

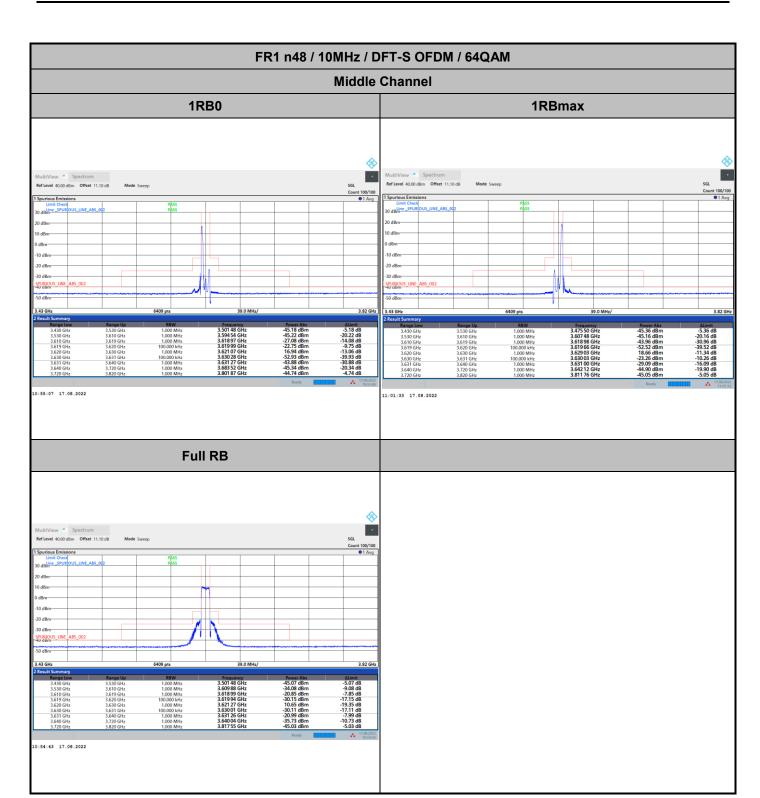
Ref Level 40.00 dBm Offset 11.10 dB 10 dBm -10 dBm SPURIOUS LINE ABS 002 PURIOUS_LINE_ABS_002 11:11:15 17.08.2022 Full RB Ref Level 40.00 dBm Offset 11.10 dB

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1:11:58 17.08.2022



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