FCC RADIO TEST REPORT

FCC ID	:	**2AZUL-RS8682**
Equipment	:	**5G n48 RRU 4x4 5W/Ch Outdoor**
Brand Name	:	**LIONS**
Model Name	:	**RS8682**
Applicant	:	**LIONS Taiwan Technology Inc.** **3F.-2, No. 120, Sec. 2, Gongdao 5th Rd., East Dist., Hsinchu City 300031 , Taiwan (R.O.C.)**
Manufacturer	:	**LIONS Taiwan Technology Inc.** **3F.-2, No. 120, Sec. 2, Gongdao 5th Rd., East Dist., Hsinchu City 300031 , Taiwan (R.O.C.)**
Standard	:	**FCC 47 CFR Part 2, 96**

The product was received on Nov. 21, 2023 and testing was performed from Apr. 10, 2024 to Feb. 20, 2025. 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 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 from 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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Appendix A. Test Results of Conducted Test

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History of this test report

Report No.	Version	Description	Issue Date
FG3N0925-06A	01	Initial issue of report	Apr. 24, 2025

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	§2.1046	Conducted Output Power	Pass	-
3.3	§96.41	Peak-to-Average Ratio	Pass	-
3.4	§96.41	Effective Isotropic Radiated Power	Pass	-
		Power Density	Pass	-
3.5	§2.1049 §96.41	Occupied Bandwidth	Pass	-
3.6	§2.1051 §96.41	Conducted Band Edge Measurement	Pass	-
3.7	§2.1051 §96.41	Conducted Spurious Emission	Pass	-
-	§2.1055	Frequency Stability for Temperature & Voltage	Pass	See Note
4.4	§2.1051 §96.41	Radiated Spurious Emission	Pass	5.28 dB under limit at 10322.00 MHz

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section “Measurement Uncertainty”.

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: Steve Chen

Report Producer: Lucy Wu

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
General Specs 5G NR. **Antenna Type** WWAN: High Gain Antenna	
Antenna Gain	**<Ant. 1>:** 5G NR n48: 17.5 dBi **<Ant. 2>:** 5G NR n48: 17.5 dBi **<Ant. 3>:** 5G NR n48: 17.5 dBi **<Ant. 4>:** 5G NR n48: 17.5 dBi

Remark: The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.

1.2 Modification of EUT

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

1.3 Testing Location

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	**Sporton Site No.**
	TH02-HY
Test Engineer	Qiao Tan
Temperature (℃)	21.35~24.22
Relative Humidity (%)	48.75~58.66

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	**Sporton Site No.**
	03CH12-HY (TAF Code: 3786)
Test Engineer	Bill Chang and Jack Cheng
Temperature (℃)	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

1.4 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, 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
- FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

Remark:

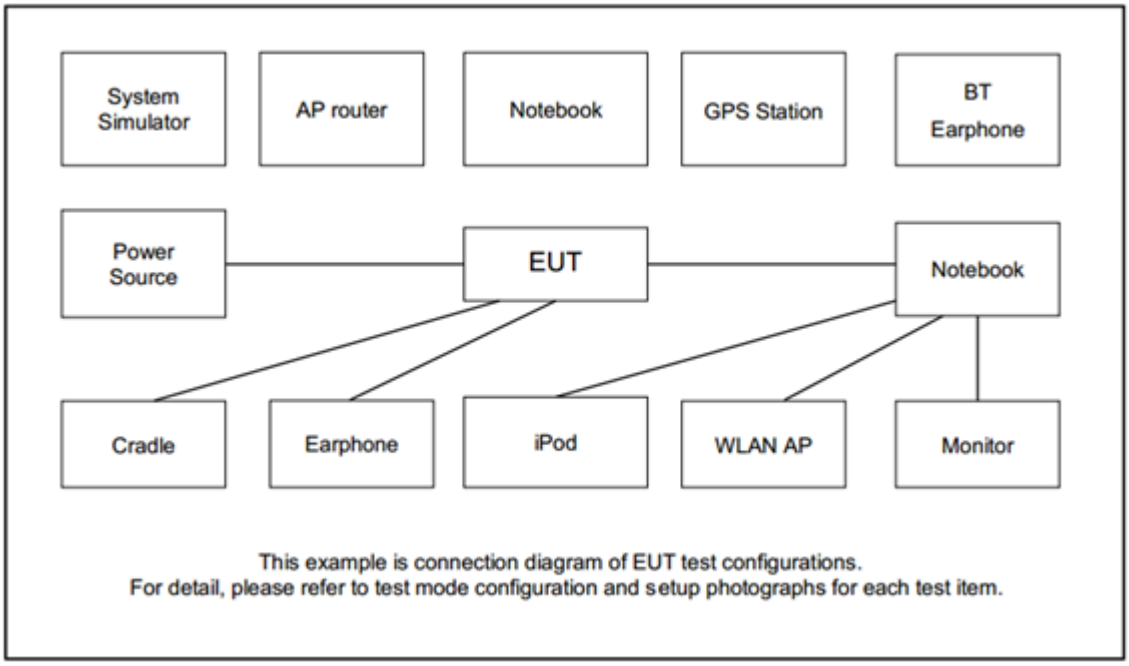
1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. The TAF code is not including all the FCC KDB listed without accreditation.

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.

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration

Item	Equipment	Brand Name	Model No.	FCC ID	Data Cable	Power Cord
1.	DC Power Supply	GW Instek	SPS-606	N/A	N/A	N/A

2.4 Frequency List of Low/Middle/High Channels

5G NR n48 2CC (Contiguous) Channel and Frequency List					
BW [MHz]	Channel/Frequency(MHz)		Lowest	Middle	Highest
10+10	PCC	Channel	637000	641334	645666
		Frequency	3555	3620.01	3684.99
	SCC	Channel	637666	642000	646332
		Frequency	3564.99	3630	3694.98
10+20	PCC	Channel	637000	641000	645000
		Frequency	3555	3615	3675
	SCC	Channel	638000	642000	646000
		Frequency	3570	3630	3690
10+40	PCC	Channel	637000	640333	643666
		Frequency	3555	3605.01	3654.99
	SCC	Channel	638666	642000	645332
		Frequency	3579.99	3630	3679.98
20+10	PCC	Channel	637334	641334	645332
		Frequency	3560.01	3620.01	3679.98
	SCC	Channel	638334	642334	646332
		Frequency	3575.01	3635.01	3694.98
20+20	PCC	Channel	637334	641000	644666
		Frequency	3560.01	3615	3669.99
	SCC	Channel	638666	642334	646000
		Frequency	3579.99	3635.01	3690
20+40	PCC	Channel	637334	640333	643332
		Frequency	3560.01	3605.01	3649.98
	SCC	Channel	639334	642334	645332
		Frequency	3590.01	3635.01	3679.98
40+10	PCC	Channel	638000	641334	644666
		Frequency	3570	3620.01	3669.99
	SCC	Channel	639666	643000	646332
		Frequency	3594.99	3645	3694.98

5G NR n48 2CC (Contiguous) Channel and Frequency List					
BW [MHz]	Channel/Frequency(MHz)		Lowest	Middle	Highest
40+20	PCC	Channel	638000	641000	644000
		Frequency	3570	3615	3660
	SCC	Channel	637334	643000	646000
		Frequency	3560.01	3645	3690
40+40	PCC	Channel	638000	640333	642666
		Frequency	3570	3605.01	3639.99
	SCC	Channel	640666	643000	645332
		Frequency	3609.99	3645	3679.98

5G NR n48 2CC (Non-Contiguous) Channel and Frequency List					
BW [MHz]	Channel/Frequency(MHz)		Lowest	Middle	Highest
10+10	CC1	Channel	637000	-	640333
		Frequency	3555	-	3605.01
	CC2	Channel	643000	-	646332
		Frequency	3645	-	3694.98
40+40	CC1	Channel	638000	-	641334
		Frequency	3570	-	3620.01
	CC2	Channel	642000	-	645332
		Frequency	3630	-	3679.98

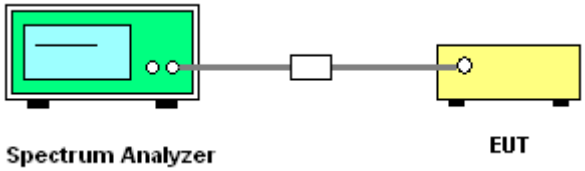
3 Conducted Test Items

3.1 Measuring Instruments

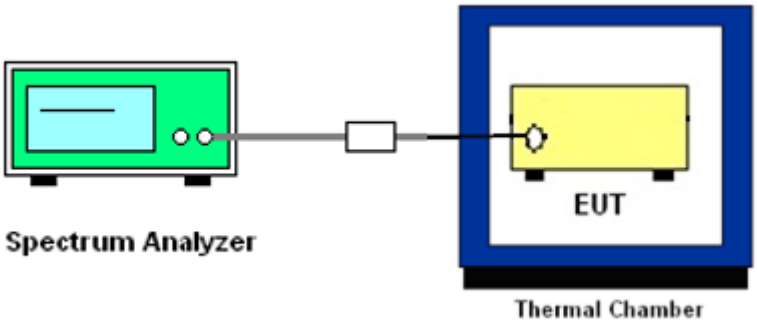
See list of measuring instruments of this test report.

3.1.1 Test Setup

3.1.2 Conducted Output Power, Peak-to-Average Ratio, Occupied Bandwidth, Conducted Band Edge and Conducted Spurious Emission



3.1.3 Frequency Stability



3.1.4 Test Result of Conducted Test

Please refer to Appendix A.

3.2 Conducted Output Power

3.2.1 Description of the Conducted Output Power Measurement

Command lines were set to force the EUT transmitting at maximum output power.

The measured power in the radio frequency on the transmitter output terminals shall be reported.

3.2.2 Test Procedures

1. Set EUT at maximum power.
2. Select lowest, middle, and highest channels for each band and different modulation.
3. Measure and record the power level.

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 EIRP and Power Density

3.4.1 Description of the EIRP and Power Density Measurement

The EIRP of category B CBSD must not exceed 47 dBm / 10 megahertz.

The EIRP PSD of category B CBSD must not exceed 37 dBm / 1 megahertz.

The testing follows ANSI C63.26-2015 Section 5.2.5.5

According to KDB 412172 D01 Power Approach,

EIRP = PT + GT – LC, 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

Device	Maximum EIRP (dBm/10 MHz)	Maximum PSD (dBm/MHz)
Category B CBSD	47	37

3.4.2 Test Procedures

1. 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) and 3.2(b)(3)
2. Determine the EIRP by adding the effective antenna gain to the measured average conducted power level.
3. For MIMO measurement, the KDB 662911 E)2)c) is used as following:
   Measure and add 10 log(NANT) dB, where NANT is the number of outputs. With this technique, spectrum measurements are performed at each output of the device, but rather than summing the spectra or the spectral peaks across the outputs, the quantity 10 log(NANT) dB is added to each spectrum value before comparing to the emission limit.

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

96.41(e)(1)

The conducted power of any CBSD emission outside the fundamental emission bandwidth shall not exceed −13 dBm/MHz within 0-10 megahertz above the upper SAS-assigned channel edge and within 0-10 megahertz below the lower SAS-assigned channel edge. At all frequencies greater than 10 megahertz above the upper SAS assigned channel edge and less than 10 MHz below the lower SAS assigned channel edge, the conducted power of any CBSD emission shall not exceed −25 dBm/MHz. The upper and lower SAS assigned channel edges are the upper and lower limits of any channel assigned to a CBSD by an SAS, or in the case of multiple contiguous channels, the upper and lower limits of the combined contiguous channels.

96.41(e)(2)

The conducted power of emissions below 3540 MHz or above 3710 MHz shall not exceed −25 dBm/MHz, and the conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed −40dBm/MHz.

3.6.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.1.

1. The EUT was connected to spectrum analyze.
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. For MIMO measurement, the KDB 662911 E)2)c) is used as following:
   Measure and add 10 log(NANT) dB, where NANT is the number of outputs. With this technique, spectrum measurements are performed at each output of the device, but rather than summing the spectra or the spectral peaks across the outputs, the quantity 10 log(NANT) dB is added to each spectrum value before comparing to the emission limit.

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.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. The middle channel for the highest RF power within the transmitting frequency was measured.
4. The conducted spurious emission for the whole frequency range was taken.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz.
6. Set spectrum analyzer with RMS detector.
7. Taking the record of maximum spurious emission.
8. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
9. The limit line is −40dBm/MHz.

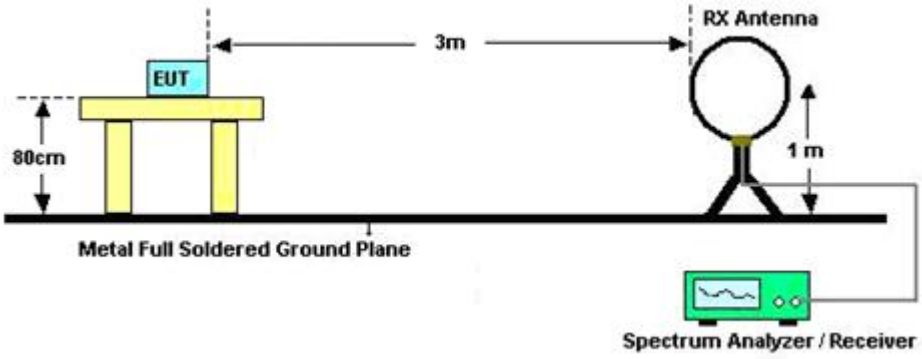
4 Radiated Test Items

4.1 Measuring Instruments

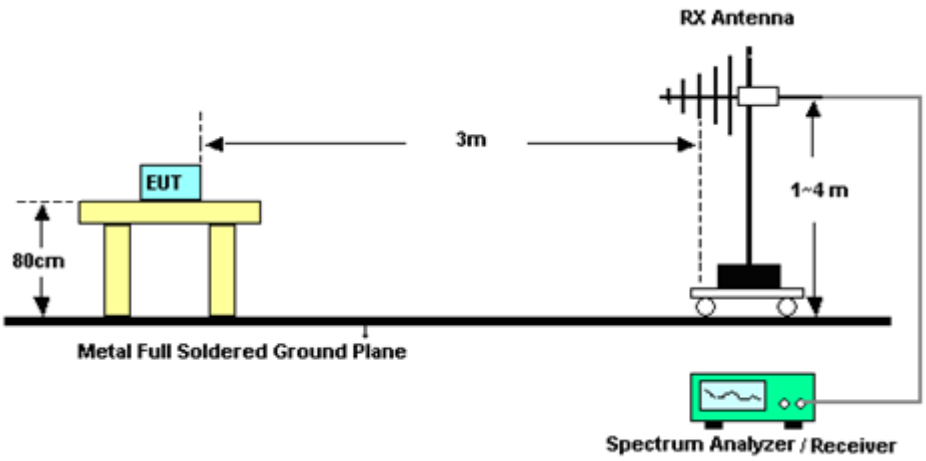
See list of measuring instruments of this test report.

4.2 Test Setup

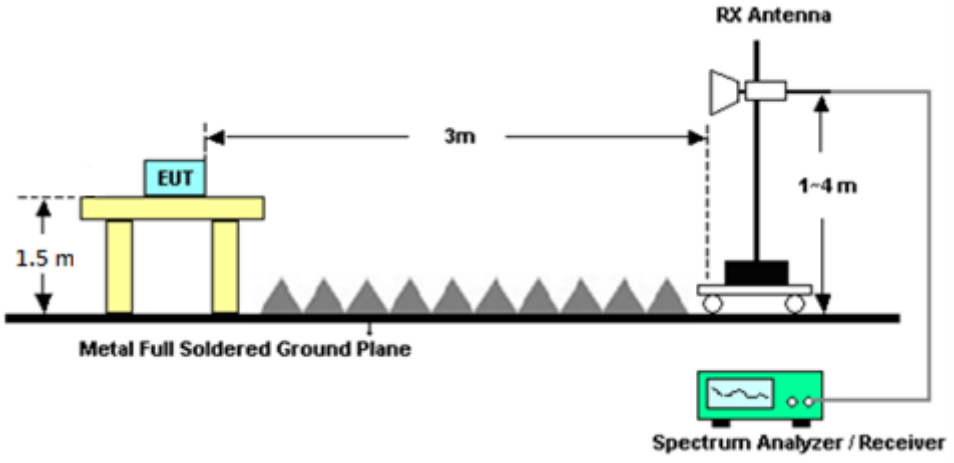
For radiated emissions below 30MHz



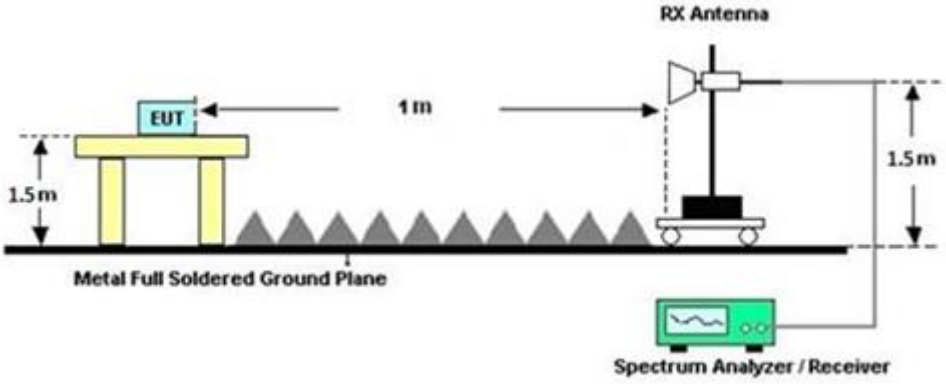
For radiated emissions from 30MHz to 1GHz



For radiated emissions from 1GHz to 18GHz



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.

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 C63.26-2015. 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 C63.26-2015 section 5.5.4 Radiated measurement using the field strength method

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. To convert spectrum reading E(dBuV/m) to EIRP(dBm)
   EIRP(dBm) = Level (dBuV/m) + 20log(d) -104.77, where d is the distance at which filed strength limit is specified in the rules.
7. Field Strength Level (dBm) = Spectrum Reading (dBm) + Antenna Factor + Cable Loss + Read Level - Preamp Factor.
8. ERP (dBm) = EIRP (dBm) - 2.15
9. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

5 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Feb. 23, 2024	Jul. 08, 2024~ Feb. 20, 2025	Feb. 22, 2025	Radiation (03CH12-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N-06	37059 & 01	30MHz~1GHz	Nov. 03, 2023	Jul. 08, 2024	Nov. 02, 2024	Radiation (03CH12-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N-06	37059 & 01	30MHz~1GHz	Nov. 27, 2024	Feb. 20, 2025	Nov. 26, 2025	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-02038	1GHz~18GHz	Jul. 31, 2023	Jul. 08, 2024	Jul. 30, 2024	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-02114	1GHz~18GHz	Jul. 11, 2024	Feb. 20, 2025	Jul. 10, 2025	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA9170	00993	18GHz-40GHz	Nov. 24, 2023	Jul. 08, 2024	Nov. 23, 2024	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	1224	18GHz-40GHz	Jun. 24, 2024	Feb. 20, 2025	Jun. 23, 2025	Radiation (03CH12-HY)
Preamplifier	COM-POWER	PA-103	161075	10MHz~1GHz	Mar. 20, 2024	Jul. 08, 2024	Mar. 19, 2025	Radiation (03CH12-HY)
Preamplifier	Agilent	8449B	3008A02375	1GHz~26.5GHz	May 22, 2024	Jul. 08, 2024	May 21, 2025	Radiation (03CH12-HY)
Preamplifier	E-INSTRUMENT TECH LTD.	ERA-100M-18G-5 6-01-A70	EC1900249	1GHz-18GHz	Dec. 20, 2023	Jul. 08, 2024	Dec. 19, 2024	Radiation (03CH12-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz~40GHz	Dec. 07, 2023	Jul. 08, 2024	Dec. 06, 2024	Radiation (03CH12-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz~40GHz	Dec. 02, 2024	Feb. 20, 2025	Dec. 01, 2025	Radiation (03CH12-HY)
Preamplifier	E-INSTRUMENT TECH LTD.	ERA-100M-18G-5 6-01-A70	EC1900269	1GHz-18GHz	Dec. 19, 2024	Feb. 20, 2025	Dec. 18, 2025	Radiation (03CH12-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200485	10Hz~44GHz	May 13, 2024	Jul. 08, 2024	May 12, 2025	Radiation (03CH12-HY)
Spectrum Analyzer	Agilent	N9010A	MY53470118	10Hz~44GHz	Aug. 09, 2024	Feb. 20, 2025	Aug. 08, 2025	Radiation (03CH12-HY)
EMI Test Receiver	Agilent	N9038A(MXE)	MY53290053	20Hz~26.5GHz	Aug. 29, 2023	Jul. 08, 2024	Aug. 28, 2024	Radiation (03CH12-HY)
EMI Test Receiver	Agilent	N9038A(MXE)	MY53290053	20Hz~26.5GHz	Sep. 09, 2024	Feb. 20, 2025	Sep. 08, 2025	Radiation (03CH12-HY)
Filter	Wainwright	WHKX12-900-100 0-15000-60SS	SN11	1GHz High Pass Filter	Mar. 13, 2024	Jul. 08, 2024	Mar. 12, 2025	Radiation (03CH12-HY)
Filter	Wainwright	WHKX12-2700-30 00-18000-60SS	SN2	3GHz High Pass Filter	Mar. 13, 2024	Jul. 08, 2024	Mar. 12, 2025	Radiation (03CH12-HY)
Filter	Wainwright	WHKX8-5872.5-67 50-18000-40ST	SN2	6.75GHz High Pass Filter	Mar. 13, 2024	Jul. 08, 2024	Mar. 12, 2025	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9kHz~30MHz	Mar. 06, 2024	Jul. 08, 2024~ Feb. 20, 2025	Mar. 05, 2025	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0058/126E	30MHz~18GHz	Dec. 18, 2023	Jul. 08, 2024	Dec. 17, 2024	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30MHz~40GHz	Dec. 18, 2023	Jul. 08, 2024	Dec. 17, 2024	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30MHz~40GHz	Dec. 19, 2024	Feb. 20, 2025	Dec. 18, 2025	Radiation (03CH12-HY)

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803953/2	30MHz~40GHz	Dec. 18, 2023	Jul. 08, 2024	Dec. 17, 2024	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803955/2	30MHz~40GHz	Nov. 01, 2024	Feb. 20, 2025	Oct. 31, 2025	Radiation (03CH12-HY)
RF Cable	EMCI	EMC101Y-KM-KM-100	240907	30MHz~40GHz	Nov. 14, 2024	Feb. 20, 2025	Dec. 13, 2025	Radiation (03CH12-HY)
Hygrometer	TECPEL	DTM-303B	TP210117	N/A	Oct. 19, 2023	Jul. 08, 2024	Oct. 18, 2024	Radiation (03CH12-HY)
Hygrometer	TECPEL	DTM-303B	TP210090	N/A	Aug. 29, 2024	Feb. 20, 2025	Aug. 28, 2025	Radiation (03CH12-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Jul. 08, 2024~ Feb. 20, 2025	N/A	Radiation (03CH12-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Jul. 08, 2024~ Feb. 20, 2025	N/A	Radiation (03CH12-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Jul. 08, 2024~ Feb. 20, 2025	N/A	Radiation (03CH12-HY)
Software	Audix	E3 6.2009-8-24	RK-000989	N/A	N/A	Jul. 08, 2024~ Feb. 20, 2025	N/A	Radiation (03CH12-HY)
Notch Filter	Wainwright	WHKX12-900-1000-15000-60SS	SN11	1GHz High Pass Filter	Mar. 13, 2024	Feb. 20, 2025	Mar. 12, 2025	Radiation (03CH12-HY)
Notch Filter	Wainwright	WLKS1200-12SS	SN2	1.2GHz Low Pass Filter	Mar. 13, 2024	Feb. 20, 2025	Mar. 12, 2025	Radiation (03CH12-HY)
Notch Filter	Wainwright	WHKX12-2700-3000-18000-60ST	SN2	3GHz High Pass Filter	Mar. 13, 2024	Feb. 20, 2025	Mar. 12, 2025	Radiation (03CH12-HY)
Signal Analyzer	Rohde & Schwarz	FSV3044	101104	10Hz~44GHz	Feb. 20, 2024	Apr. 10, 2024~ Jun. 28, 2024	Feb. 19, 2025	Conducted (TH02-HY)
Hygrometer	TECPEL	DTM-303B	TP200886	Temperature & Humidity	Mar. 14, 2024	Apr. 10, 2024~ Jun. 28, 2024	Mar. 13, 2025	Conducted (TH02-HY)
DC Power Supply	GW Instek	SPS-606	GES842931	N/A	Dec. 29, 2023	Apr. 10, 2024~ Jun. 06, 2024	Dec. 28, 2024	Conducted (TH02-HY)
DC Power Supply	GW Instek	GPE-2323	GES861546	0V~64V ; 0A~6A	Jun. 06, 2024	Jun. 07, 2024~ Jun. 28, 2024	Jun. 04, 2025	Conducted (TH02-HY)
Software	Sporotn	FCC 5GNR Test Tools	N/Ass	Ver1.0	NCR	Apr. 10, 2024~ Jun. 28, 2024	NCR	Conducted (TH02-HY)
NB	Lenovo	15IHU6	MP28JPYV	N/A	NCR	Apr. 10, 2024~ Jun. 28, 2024	NCR	Conducted (TH02-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	801606/3	N/A	May 17, 2023	Apr. 10, 2024~ May 15, 2024	May 16, 2024	Conducted (TH02-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	801606/3	N/A	May 15, 2024	May 15, 2024~ Jun. 28, 2024	May 14, 2025	Conducted (TH02-HY)
Fixed Attenuator	Woken	WATT-1018FS-20	W00001	N/A	Oct. 31, 2023	Apr. 10, 2024~ Jun. 28, 2024	Oct. 30, 2024	Conducted (TH02-HY)

6 Measurement Uncertainty

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	6.30 dB

Uncertainty of Radiated Emission Measurement (1 GHz ~ 6 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.70 dB

Uncertainty of Radiated Emission Measurement (6 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.00 dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.30 dB

Appendix A. Test Results of Conducted Test

QPSK	Average Burst Power (dBm)																	
	Low Channel						Middle Channel						High Channel					
	ANT1	ANT2	ANT3	ANT4	SUM	EIRP	ANT1	ANT2	ANT3	ANT4	SUM	EIRP	ANT1	ANT2	ANT3	ANT4	SUM	EIRP
10M+10M	24.58	24.57	24.47	24.68	30.60	48.10	24.15	23.97	24.11	24.76	30.28	47.78	24.16	23.94	23.66	24.06	29.98	47.48
10M+20M	24.74	24.43	24.20	24.77	30.56	48.06	24.47	23.76	24.05	24.54	30.24	47.74	24.37	23.71	23.94	24.56	30.18	47.68
10M+40M	24.27	24.38	24.63	24.43	30.45	47.95	24.36	24.54	24.48	24.62	30.52	48.02	24.11	23.67	24.23	24.30	30.10	47.60
20M+10M	24.50	24.47	24.85	24.54	30.61	48.11	24.41	24.54	24.09	24.33	30.37	47.87	23.78	23.76	23.76	24.15	29.89	47.39
20M+20M	27.18	27.36	27.62	27.58	33.46	50.96	27.13	27.49	27.10	27.33	33.29	50.79	27.25	27.10	27.27	27.37	33.27	50.77
20M+40M	27.10	27.03	27.62	27.14	33.25	50.75	27.32	27.06	27.05	27.89	33.36	50.86	26.83	26.64	26.95	27.49	33.01	50.51
40M+10M	24.56	23.96	24.36	24.78	30.45	47.95	24.54	24.17	24.54	24.68	30.51	48.01	24.59	23.55	24.30	24.14	30.18	47.68
40M+20M	27.01	26.90	27.55	26.98	33.14	50.64	27.23	27.09	27.34	27.20	33.24	50.74	27.34	26.47	27.12	26.80	32.97	50.47
40M+40M	31.31	30.99	31.32	31.35	37.27	54.77	31.16	31.10	31.14	31.50	37.25	54.75	31.02	31.15	31.09	31.33	37.17	54.67
10M+10M	23.98	23.91	23.88	24.34	30.05	47.55							23.91	23.60	23.79	24.27	29.92	47.42
40M+40M	30.94	31.01	31.10	31.39	37.13	54.63							30.82	31.33	31.20	31.05	37.12	54.62

16QAM	Average Burst Power (dBm)																	
	Low Channel						Middle Channel						High Channel					
	ANT1	ANT2	ANT3	ANT4	SUM	EIRP	ANT1	ANT2	ANT3	ANT4	SUM	EIRP	ANT1	ANT2	ANT3	ANT4	SUM	EIRP
10M+10M	24.48	24.01	24.55	24.48	30.41	47.91	24.31	24.05	24.09	24.65	30.30	47.80	24.18	23.87	23.69	24.01	29.96	47.46
10M+20M	24.59	24.04	24.68	24.77	30.55	48.05	24.37	23.63	24.26	24.64	30.26	47.76	24.27	23.52	24.00	24.54	30.12	47.62
10M+40M	24.12	24.37	24.64	24.36	30.40	47.90	24.50	24.48	24.64	24.76	30.62	48.12	24.14	24.03	24.23	24.38	30.22	47.72
20M+10M	24.75	24.71	24.79	24.52	30.71	48.21	24.45	24.19	24.02	24.39	30.29	47.79	23.93	24.01	23.90	24.08	30.00	47.50
20M+20M	26.26	27.30	27.34	27.44	33.13	50.63	27.13	26.86	27.06	27.22	33.09	50.59	27.26	27.14	27.13	27.46	33.27	50.77
20M+40M	27.23	26.85	27.67	27.28	33.29	50.79	27.26	26.87	27.49	27.97	33.44	50.94	26.89	26.53	27.03	27.66	33.07	50.57
40M+10M	24.49	23.95	24.29	24.54	30.34	47.84	24.67	24.25	24.42	24.63	30.52	48.02	24.52	23.65	24.16	23.93	30.10	47.60
40M+20M	27.08	26.73	27.32	26.97	33.05	50.55	27.37	26.82	27.44	27.26	33.25	50.75	27.24	26.31	26.87	26.84	32.85	50.35
40M+40M	31.22	30.93	31.18	31.39	37.20	54.70	31.09	31.17	31.09	31.66	37.28	54.78	31.08	31.12	31.04	31.43	37.19	54.69
10M+10M	23.64	23.75	24.04	24.27	29.95	47.45							24.02	23.66	23.82	24.17	29.94	47.44
40M+40M	30.98	30.98	31.27	31.24	37.14	54.64							30.97	31.27	31.22	30.98	37.13	54.63

64QAM	Average Burst Power (dBm)																	
	Low Channel						Middle Channel						High Channel					
	ANT1	ANT2	ANT3	ANT4	SUM	EIRP	ANT1	ANT2	ANT3	ANT4	SUM	EIRP	ANT1	ANT2	ANT3	ANT4	SUM	EIRP
10M+10M	24.45	24.31	24.43	24.58	30.46	47.96	24.44	24.11	24.13	24.33	30.28	47.78	24.03	23.98	23.80	24.04	29.98	47.48
10M+20M	24.68	24.28	24.61	24.74	30.60	48.10	24.56	23.93	24.18	24.64	30.36	47.86	24.36	23.61	23.77	24.39	30.07	47.57
10M+40M	24.16	24.13	24.53	24.46	30.34	47.84	24.43	24.39	24.35	24.62	30.47	47.97	24.34	24.07	24.19	24.29	30.24	47.74
20M+10M	24.80	24.68	24.40	24.60	30.64	48.14	24.40	24.09	24.08	24.12	30.20	47.70	24.01	23.77	23.83	24.25	29.99	47.49
20M+20M	26.29	27.36	27.34	27.71	33.23	50.73	27.19	26.94	27.09	27.13	33.11	50.61	27.20	27.04	27.29	27.46	33.27	50.77
20M+40M	27.10	26.86	27.68	27.12	33.22	50.72	27.04	26.95	27.45	27.86	33.36	50.86	26.73	26.42	26.81	27.59	32.93	50.43
40M+10M	24.58	24.15	24.53	24.60	30.49	47.99	24.90	24.24	24.69	24.68	30.65	48.15	24.47	23.65	24.12	24.14	30.13	47.63
40M+20M	27.13	26.73	27.35	27.03	33.09	50.59	27.26	26.96	27.41	27.33	33.26	50.76	27.28	26.56	27.04	26.89	32.97	50.47
40M+40M	31.11	30.98	31.16	31.29	37.16	54.66	31.11	31.09	31.20	31.69	37.30	54.80	31.11	31.14	30.97	31.50	37.21	54.71
10M+10M	23.90	23.52	24.04	24.34	29.98	47.48							23.50	23.70	23.97	24.39	29.92	47.42
40M+40M	30.95	31.15	31.25	31.31	37.19	54.69							31.08	31.19	31.14	31.15	37.16	54.66

256QAM	Average Burst Power (dBm)																	
	Low Channel						Middle Channel						High Channel					
	ANT1	ANT2	ANT3	ANT4	SUM	EIRP	ANT1	ANT2	ANT3	ANT4	SUM	EIRP	ANT1	ANT2	ANT3	ANT4	SUM	EIRP
10M+10M	24.53	24.25	24.50	24.51	30.47	47.97	24.32	24.22	24.19	24.40	30.30	47.80	24.14	23.90	23.90	24.00	30.01	47.51
10M+20M	24.63	24.12	24.75	24.83	30.61	48.11	24.77	23.76	24.22	24.70	30.40	47.90	24.35	23.67	23.98	24.40	30.13	47.63
10M+40M	24.16	24.16	24.61	24.44	30.37	47.87	24.04	24.29	24.50	24.79	30.43	47.93	24.23	24.23	24.29	24.09	30.23	47.73
20M+10M	24.71	24.92	24.38	24.60	30.68	48.18	24.40	24.27	24.05	24.32	30.28	47.78	23.81	23.61	23.76	24.07	29.84	47.34
20M+20M	26.24	27.42	27.35	27.48	33.17	50.67	27.01	27.01	27.01	27.14	33.06	50.56	27.24	27.12	27.25	27.35	33.26	50.76
20M+40M	27.25	26.84	27.66	27.46	33.33	50.83	26.96	27.11	27.32	27.75	33.32	50.82	26.91	26.43	26.91	27.59	33.00	50.50
40M+10M	24.39	23.95	24.51	24.53	30.37	47.87	24.78	24.15	24.72	24.49	30.56	48.06	24.69	23.59	24.10	24.06	30.15	47.65
40M+20M	27.09	26.79	27.48	27.09	33.14	50.64	27.40	26.85	27.40	27.33	33.27	50.77	27.24	26.66	26.84	26.90	32.94	50.44
40M+40M	31.12	30.88	31.19	31.37	37.16	54.66	31.20	31.10	31.18	31.37	37.23	54.73	31.11	31.01	30.96	31.40	37.14	54.64
10M+10M	24.16	23.78	24.05	24.43	30.13	47.63							24.17	23.73	23.86	24.29	30.04	47.54
40M+40M	31.00	31.00	31.24	30.86	37.05	54.55							31.01	31.20	31.38	31.08	37.19	54.69

FR1 n48 Conducted Test Items

<MIMO ANT 1>

Maximum EIRP (dBm/10MHz)

Mode	FR1 n48 : Conducted (dBm/10MHz) <SISO> Lowest Channel (Contiguous)							
BW	10MHz+10MHz		10MHz+20MHz		10MHz+40MHz		20MHz+10MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	21.47	21.54	21.51	21.53	20.97	20.82	21.67	21.68
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Lowest CH	21.48	21.62	21.43	21.34	20.96	20.99	21.63	21.55
BW	20MHz+20MHz		20MHz+40MHz		40MHz+10MHz		40MHz+20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	20.88	20.85	21.44	21.46	21.28	21.25	21.39	21.50
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Lowest CH	20.84	20.75	21.24	21.39	21.30	21.43	21.57	21.54
BW	40MHz+40MHz							
Mod.	QPSK	16QAM						
Lowest CH	22.63	22.52						
Mod.	64QAM	256QAM						
Lowest CH	22.30	22.20						

Mode	FR1 n48 : Conducted (dBm/10MHz) <SISO> Lowest Channel (Non-Contiguous)							
BW	10MHz+10MHz		40MHz+40MHz					
Mod.	QPSK	16QAM	QPSK	16QAM				
Lowest CH	21.08	20.99	21.92	22.18				
Mod.	64QAM	256QAM	64QAM	256QAM				
Lowest CH	21.08	21.22	22.27	21.98				

Mode	FR1 n48 : Maximum EIRP (dBm/10MHz) <MIMO 4TX> Lowest Channel (Contiguous)							
BW	10MHz+10MHz		10MHz+20MHz		10MHz+40MHz		20MHz+10MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	44.99	45.06	45.03	45.05	44.49	44.34	45.19	45.20
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Lowest CH	45.00	45.14	44.95	44.86	44.48	44.51	45.15	45.07
BW	20MHz+20MHz		20MHz+40MHz		40MHz+10MHz		40MHz+20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	44.40	44.37	44.96	44.98	44.8	44.77	44.91	45.02
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Lowest CH	44.36	44.27	44.76	44.91	44.82	44.95	45.09	45.06
BW	40MHz+40MHz							
Mod.	QPSK	16QAM						
Lowest CH	46.15	46.04						
Mod.	64QAM	256QAM						
Lowest CH	45.82	45.72						
Limit	47dBm/10MHz							
Result	PASS							

Mode	FR1 n48 : Maximum EIRP (dBm/10MHz) <MIMO 4TX> Lowest Channel (Non-Contiguous)							
BW	10MHz+10MHz		40MHz+40MHz					
Mod.	QPSK	16QAM	QPSK	16QAM				
Lowest CH	44.60	44.51	45.44	45.7				
Mod.	64QAM	256QAM	64QAM	256QAM				
Lowest CH	44.60	44.74	45.79	45.5				
Limit	47dBm/10MHz							
Result	PASS							

Note

1. The measured conducted result has included duty cycle offset factor.
2. The Maximum EIRP = conducted result + 6.02dB (4TX) + 17.5dBi MIMO antenna gain.

Mode	FR1 n48 : Conducted (dBm/10MHz) <SISO> Middle Channel (Contiguous)							
BW	10MHz+10MHz		10MHz+20MHz		10MHz+40MHz		20MHz+10MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	21.29	21.31	21.30	21.42	21.05	20.92	21.33	21.24
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	21.30	21.46	21.44	21.43	20.86	21.17	21.19	21.29
BW	20MHz+20MHz		20MHz+40MHz		40MHz+10MHz		40MHz+20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	21.72	21.60	21.29	21.47	21.38	21.42	21.58	21.63
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	21.55	21.64	21.27	21.17	21.55	21.47	21.58	21.75
BW	40MHz+40MHz							
Mod.	QPSK	16QAM						
Middle CH	22.49	22.36						
Mod.	64QAM	256QAM						
Middle CH	22.57	22.42						

Mode	FR1 n48 : Maximum EIRP (dBm/10MHz) <MIMO 4TX> Middle Channel (Contiguous)							
BW	10MHz+10MHz		10MHz+20MHz		10MHz+40MHz		20MHz+10MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	44.81	44.83	44.82	44.94	44.57	44.44	44.85	44.76
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	44.82	44.98	44.96	44.96	44.38	44.69	44.71	44.81
BW	20MHz+20MHz		20MHz+40MHz		40MHz+10MHz		40MHz+20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	45.24	45.12	44.81	44.99	44.9	44.93	45.1	45.15
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	45.07	45.16	44.79	44.69	45.07	44.99	45.1	45.27
BW	40MHz+40MHz							
Mod.	QPSK	16QAM						
Middle CH	46.01	45.89						
Mod.	64QAM	256QAM						
Middle CH	46.09	45.94						
Limit	47dBm/10MHz							
Result	PASS							

Note

1. The measured conducted result has included duty cycle offset factor.
2. The Maximum EIRP = conducted result + 6.02dB (4TX) + 17.5dBi MIMO antenna gain.

Mode	FR1 n48 : Conducted (dBm/10MHz) <SISO> Highest Channel (Contiguous)							
BW	10MHz+10MHz		10MHz+20MHz		10MHz+40MHz		20MHz+10MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Highest CH	21.13	21.05	21.40	21.43	21.16	20.99	20.61	20.53
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Highest CH	21.21	21.18	21.34	21.52	20.97	21.06	20.66	20.68
BW	20MHz+20MHz		20MHz+40MHz		40MHz+10MHz		40MHz+20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Highest CH	21.74	21.86	21.28	21.19	21.12	20.96	21.36	21.39
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Highest CH	21.94	21.68	21.08	21.06	20.93	20.98	21.32	21.33
BW	40MHz+40MHz							
Mod.	QPSK	16QAM						
Highest CH	22.48	22.42						
Mod.	64QAM	256QAM						
Highest CH	22.63	22.46						

Mode	FR1 n48 : Conducted (dBm/10MHz) <SISO> Highest Channel (Non-Contiguous)							
BW	10MHz+10MHz		40MHz+40MHz					
Mod.	QPSK	16QAM	QPSK	16QAM				
Highest CH	21.06	21.08	22.28	22.50				
Mod.	64QAM	256QAM	64QAM	256QAM				
Highest CH	20.89	21.21	22.36	22.41				

Mode	FR1 n48 : Maximum EIRP (dBm/10MHz) <MIMO 4TX> Highest Channel (Contiguous)							
BW	10MHz+10MHz		10MHz+20MHz		10MHz+40MHz		20MHz+10MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Highest CH	44.65	44.57	44.92	44.95	44.68	44.51	44.13	44.05
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Highest CH	44.73	44.70	44.86	45.04	44.49	44.58	44.18	44.20
BW	20MHz+20MHz		20MHz+40MHz		40MHz+10MHz		40MHz+20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Highest CH	45.26	45.38	44.8	44.71	44.64	44.48	44.88	44.91
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Highest CH	45.46	45.20	44.6	44.58	44.45	44.50	44.84	44.85
BW	40MHz+40MHz							
Mod.	QPSK	16QAM						
Highest CH	46.00	45.94						
Mod.	64QAM	256QAM						
Highest CH	46.15	45.98						
Limit	47dBm/10MHz							
Result	PASS							

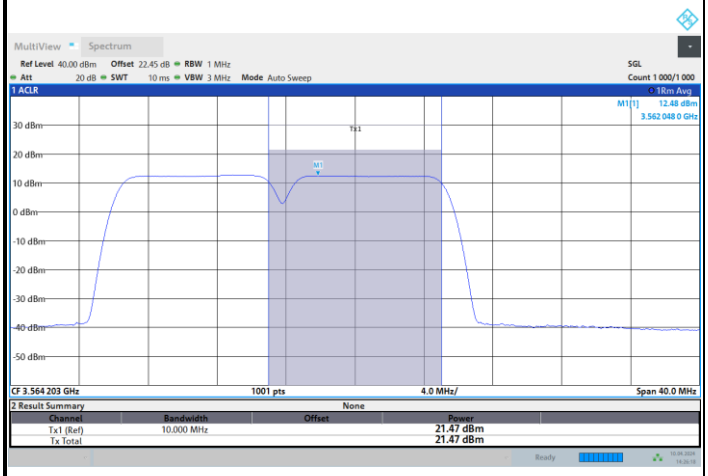
Mode	FR1 n48 : Maximum EIRP (dBm/10MHz) <MIMO 4TX> Highest Channel (Non-Contiguous)							
BW	10MHz+10MHz		40MHz+40MHz					
Mod.	QPSK	16QAM	QPSK	16QAM				
Highest CH	44.65	44.57	44.92	44.95				
Mod.	64QAM	256QAM	64QAM	256QAM				
Highest CH	44.73	44.7	44.86	45.04				
Limit	47dBm/10MHz							
Result	PASS							

Note

1. The measured conducted result has included duty cycle offset factor.
2. The Maximum EIRP = conducted result + 6.02dB (4TX) + 17.5dBi MIMO antenna gain.

FR1 n48 / 10MHz+10MHz / Lowest Channel / Conducted (dBm/10MHz)

QPSK



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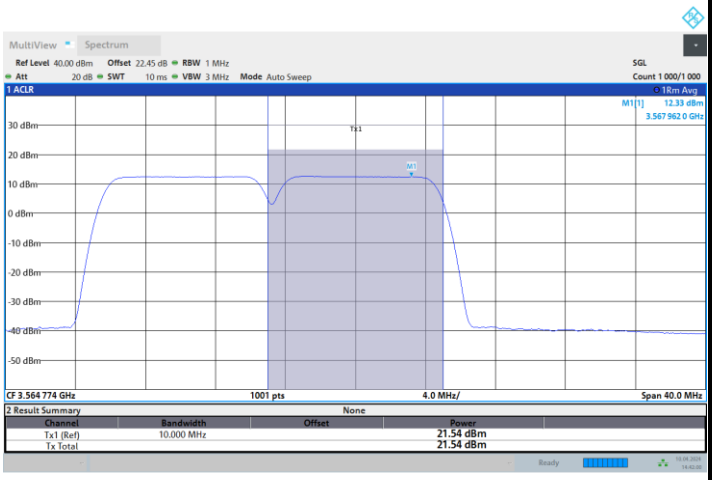

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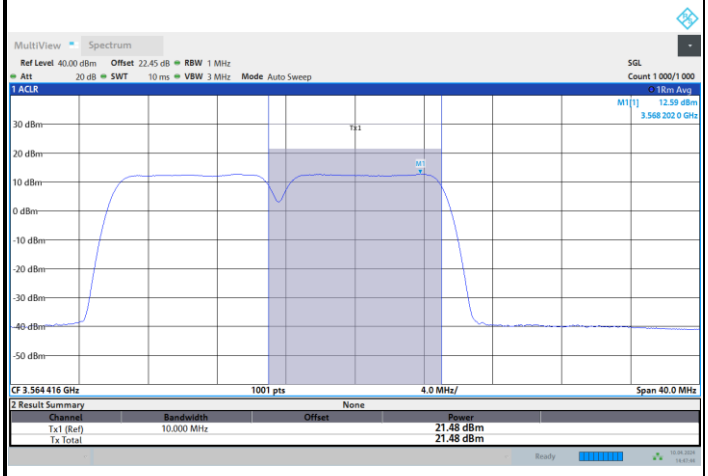

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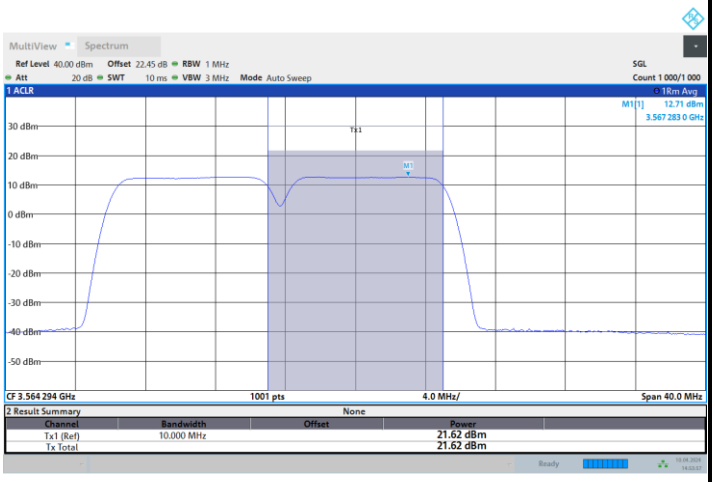
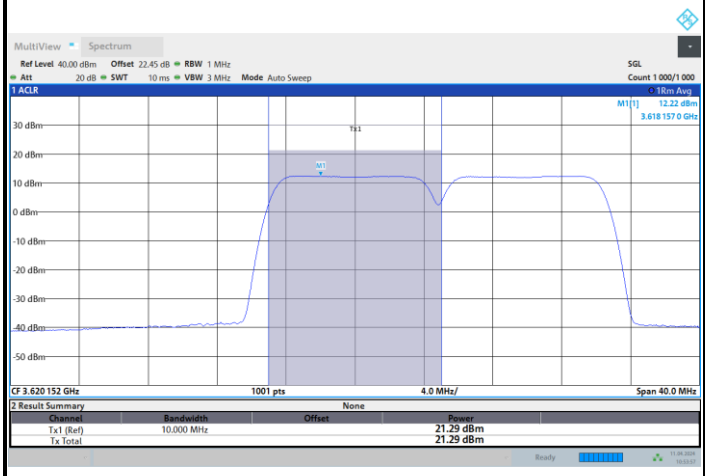


FR1 n48 / 10MHz+10MHz / Middle Channel / Conducted (dBm/10MHz)

QPSK



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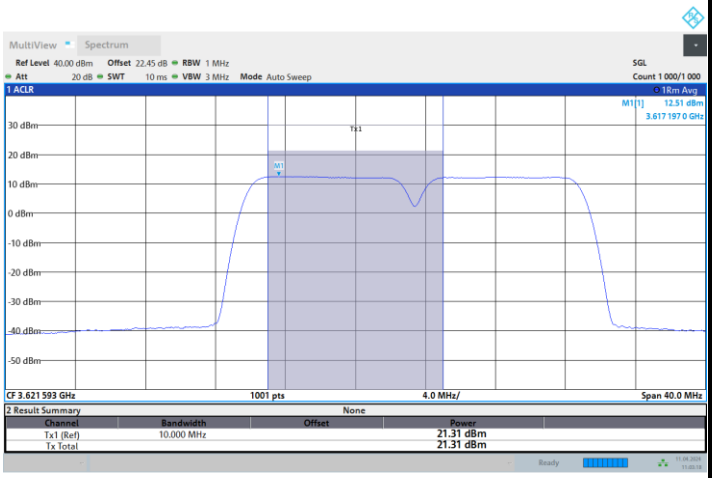

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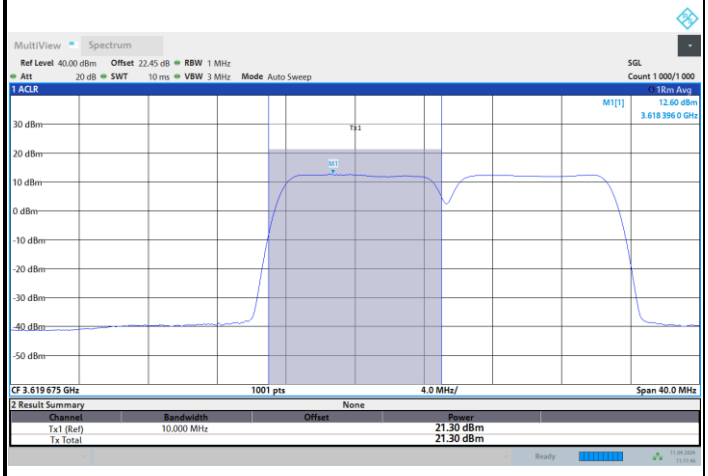

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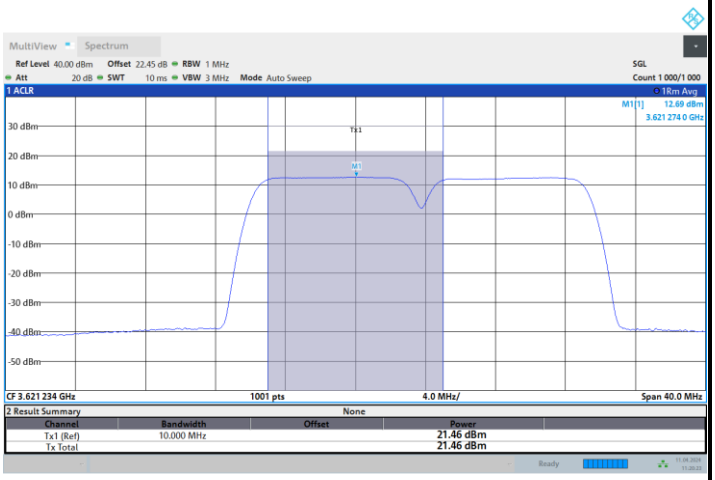
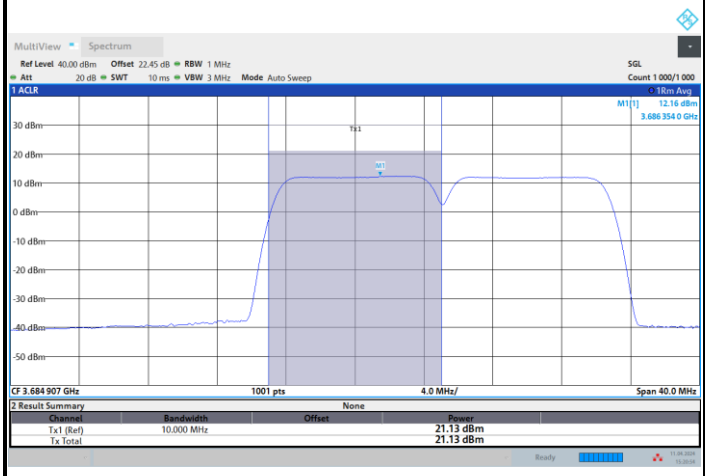


FR1 n48 / 10MHz+10MHz / Highest Channel / Conducted (dBm/10MHz)

QPSK



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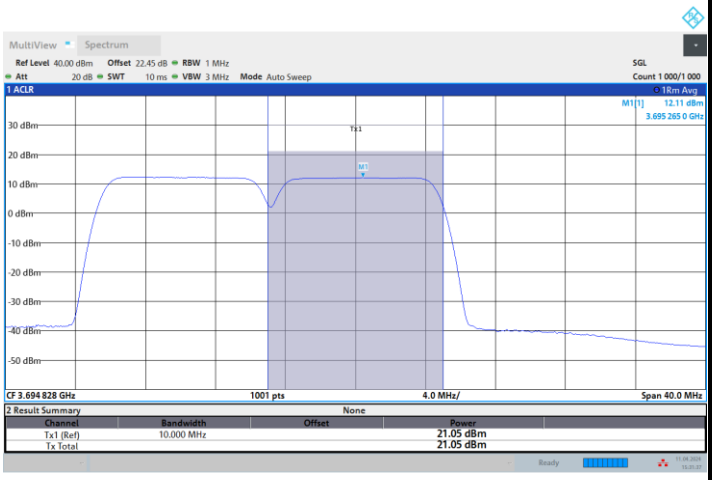

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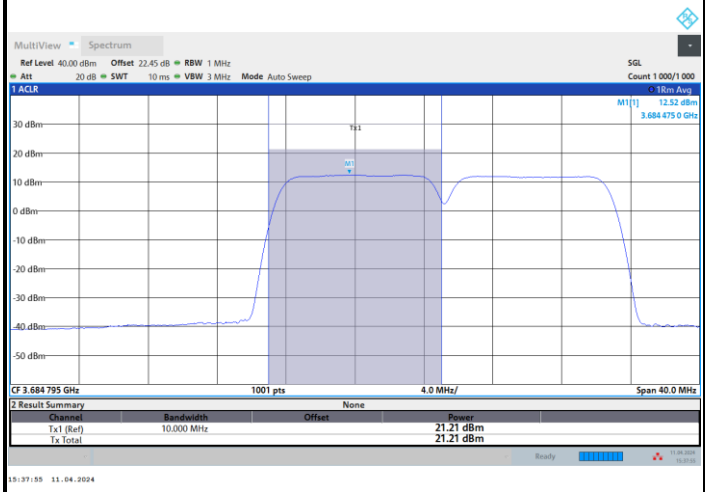

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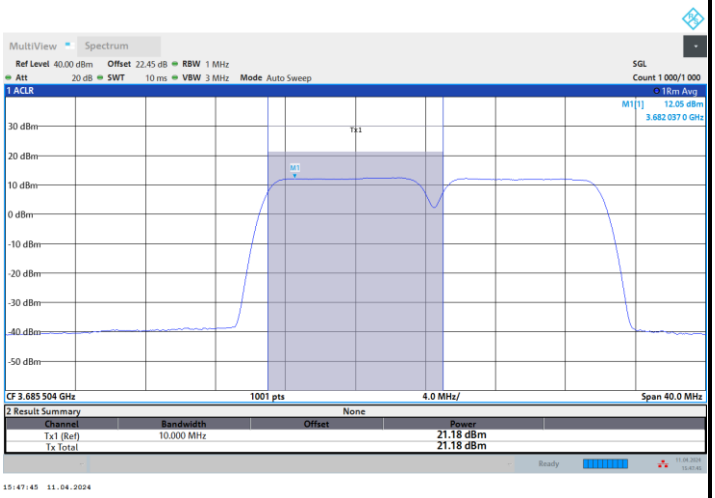
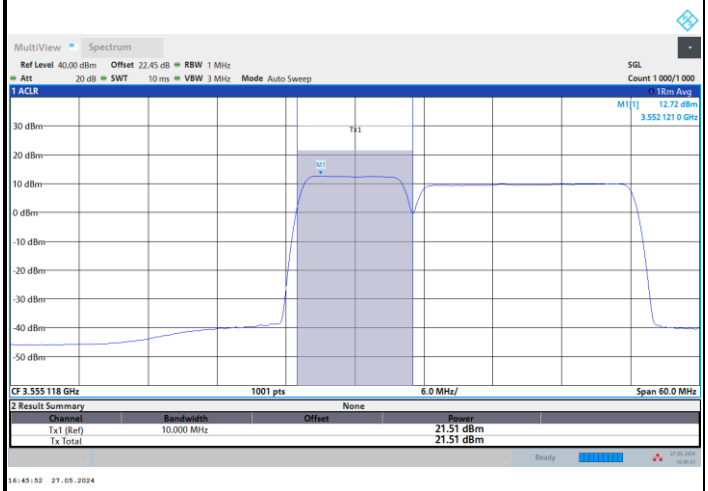


FR1 n48 / 10MHz+20MHz / Lowest Channel / Conducted (dBm/10MHz)

QPSK



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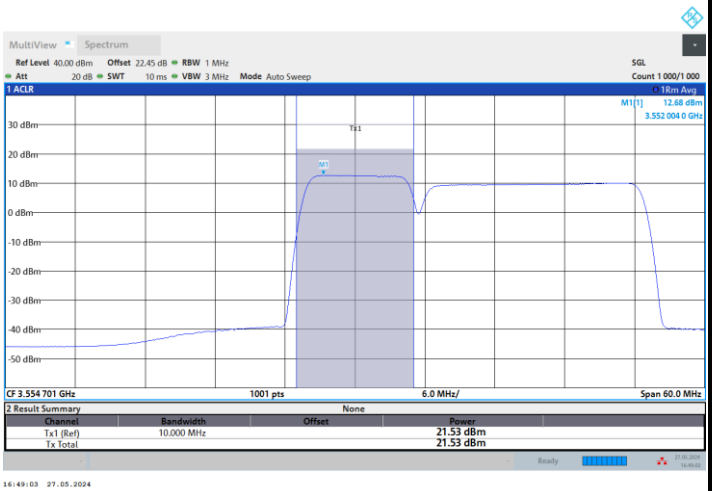

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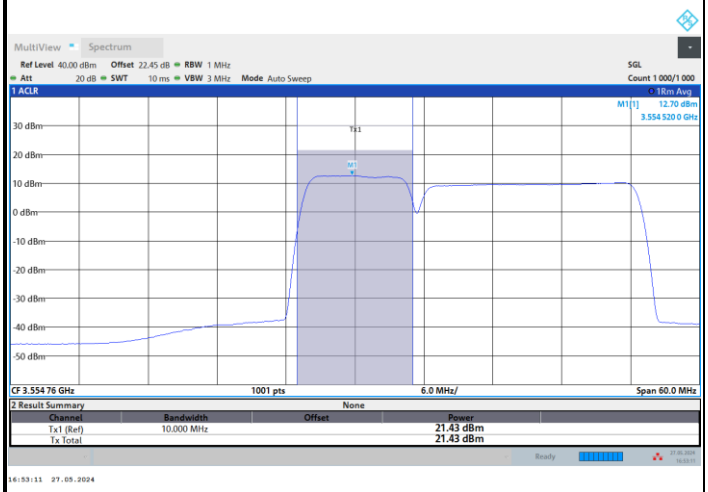

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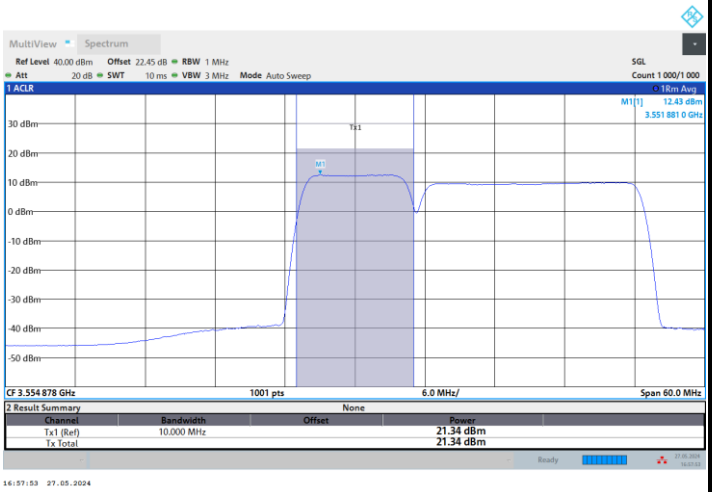
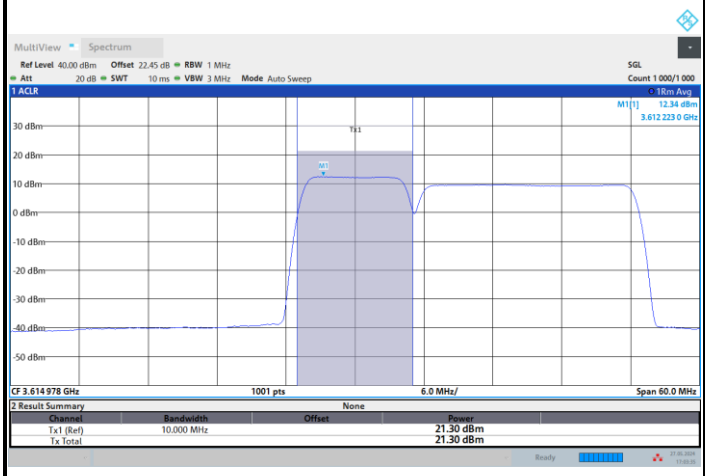


FR1 n48 / 10MHz+20MHz / Middle Channel / Conducted (dBm/10MHz)

QPSK



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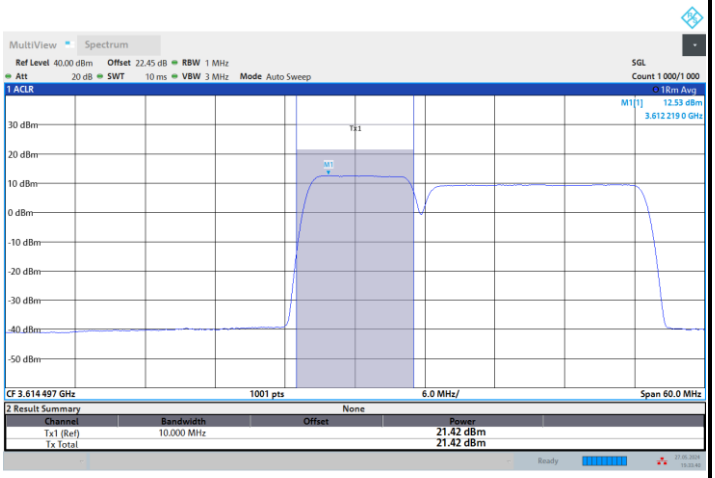

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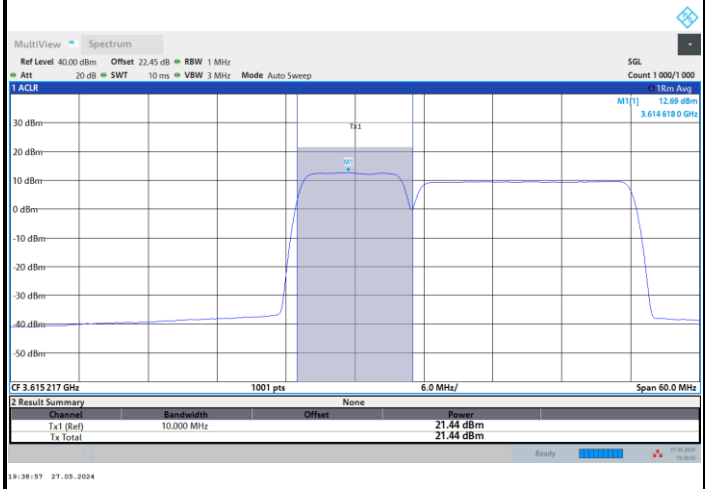

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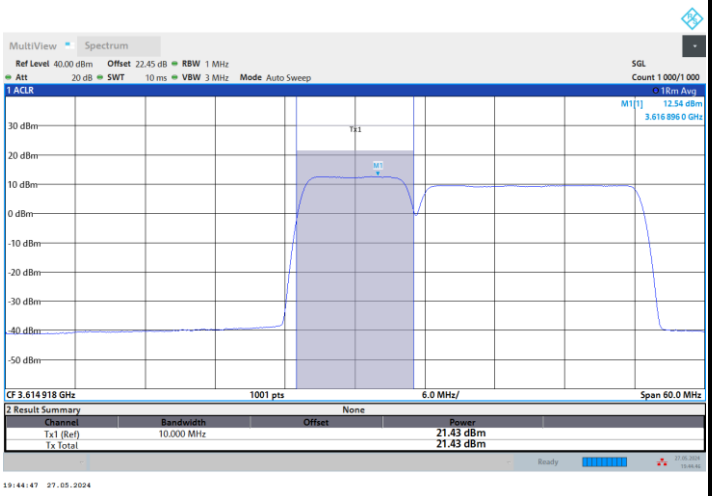
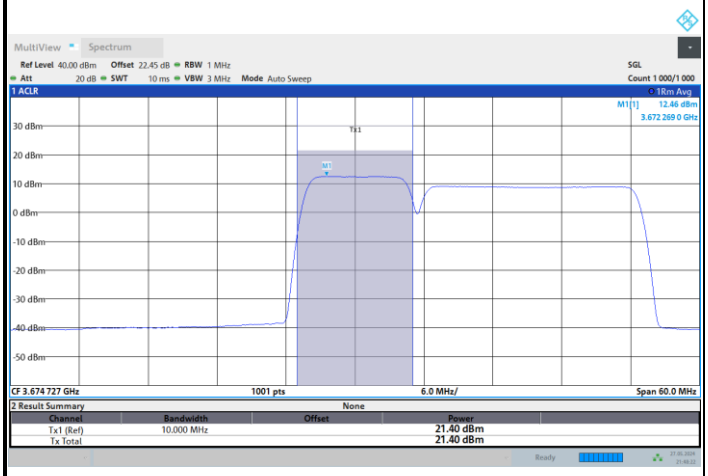


FR1 n48 / 10MHz+20MHz / Highest Channel / Conducted (dBm/10MHz)

QPSK



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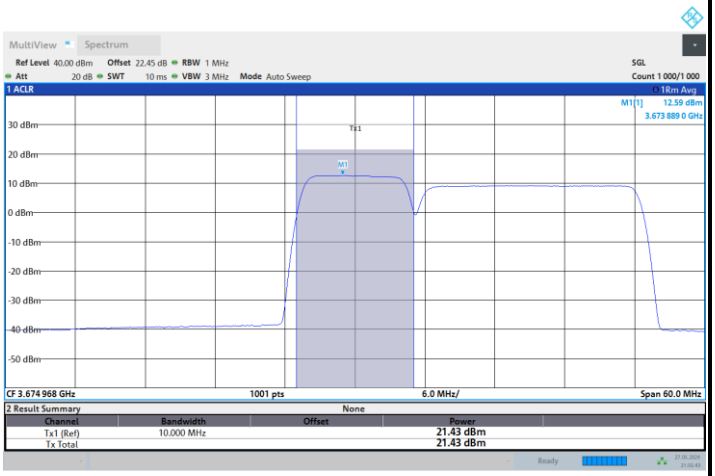

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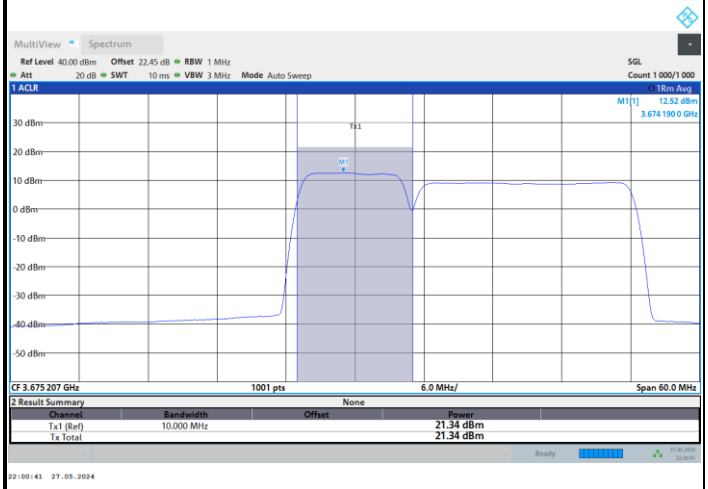

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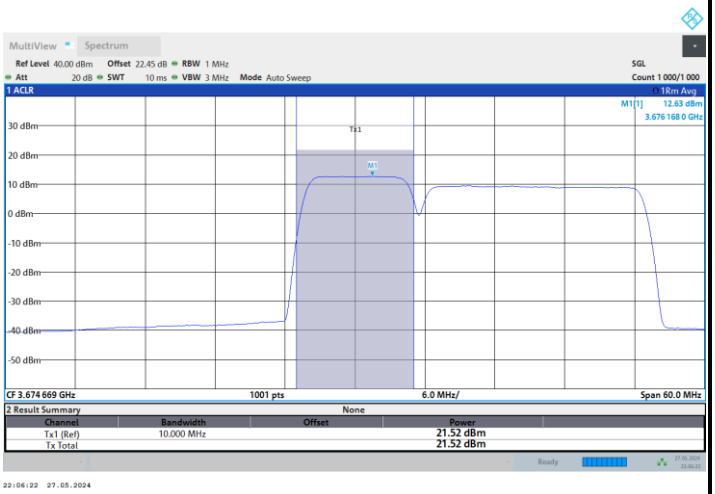
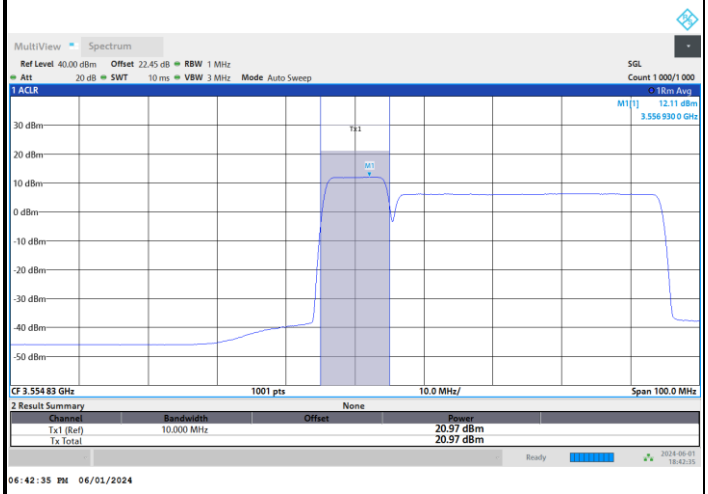


FR1 n48 / 10MHz+40MHz / Lowest Channel / Conducted (dBm/10MHz)

QPSK



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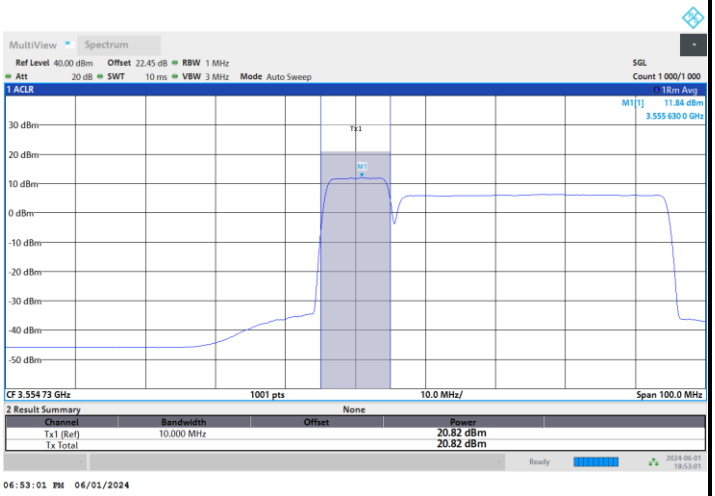

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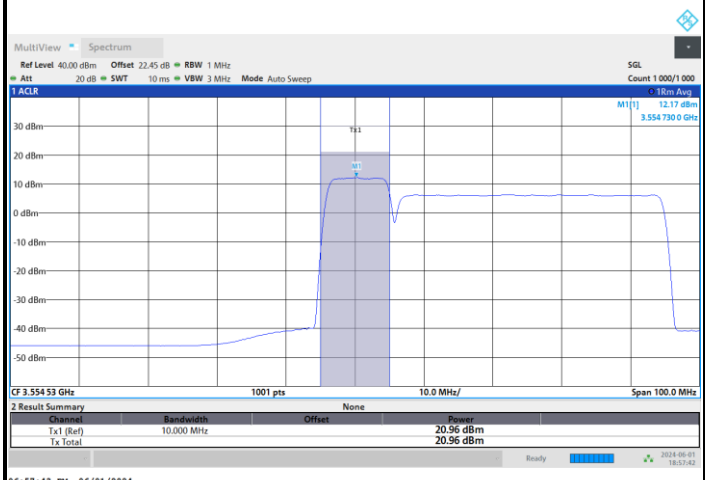

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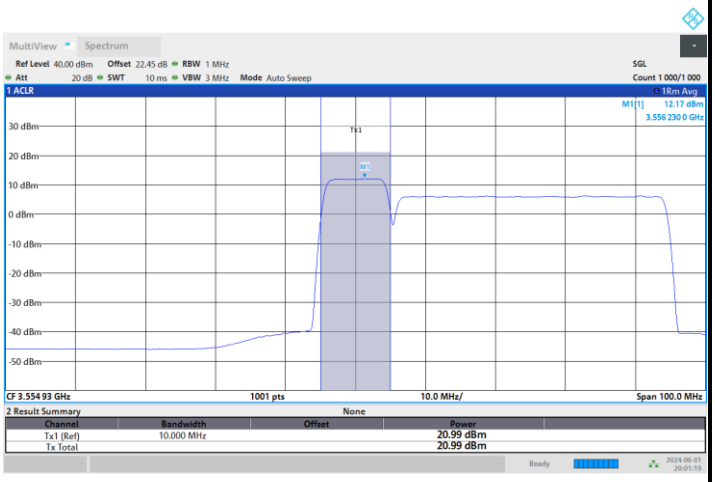
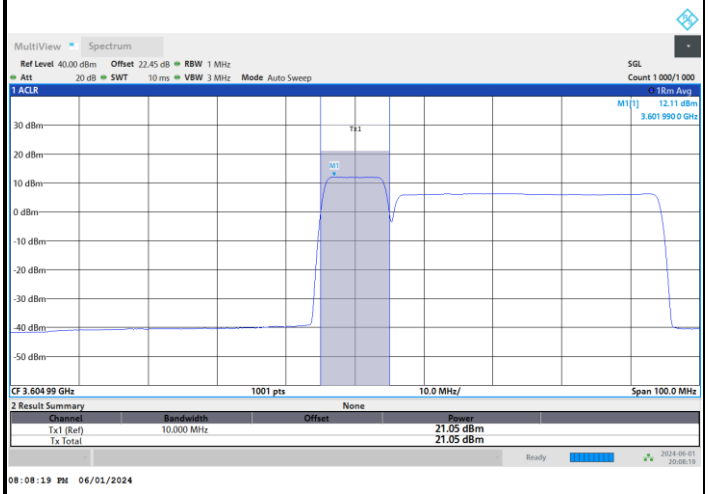
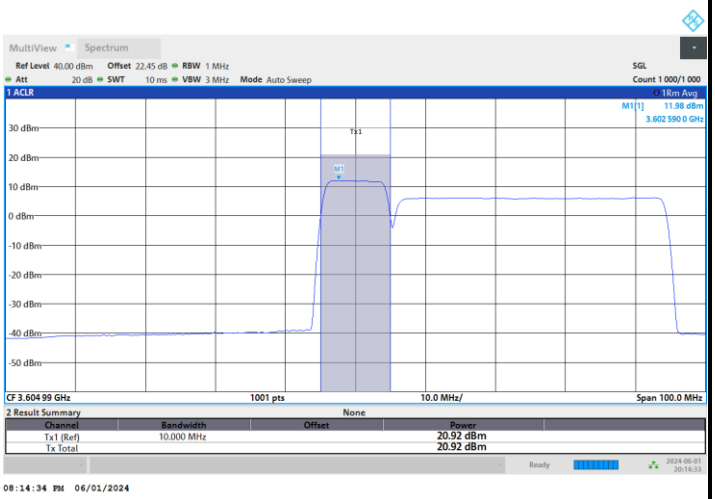
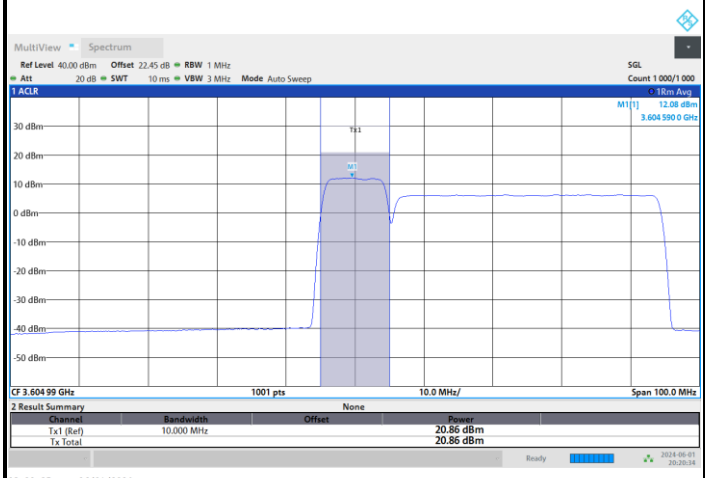
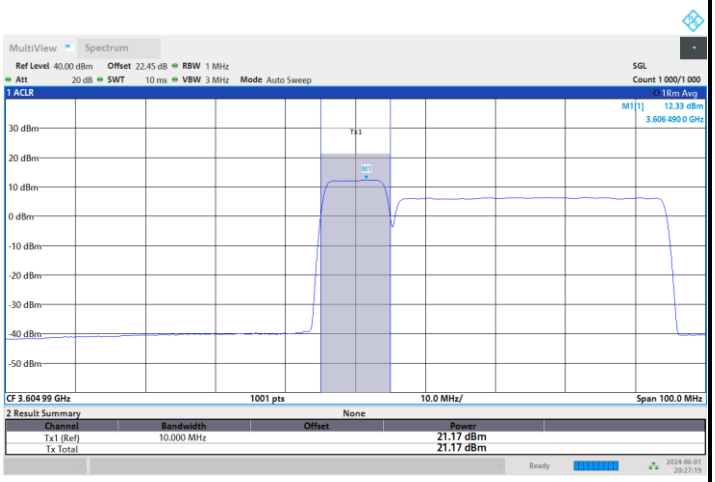
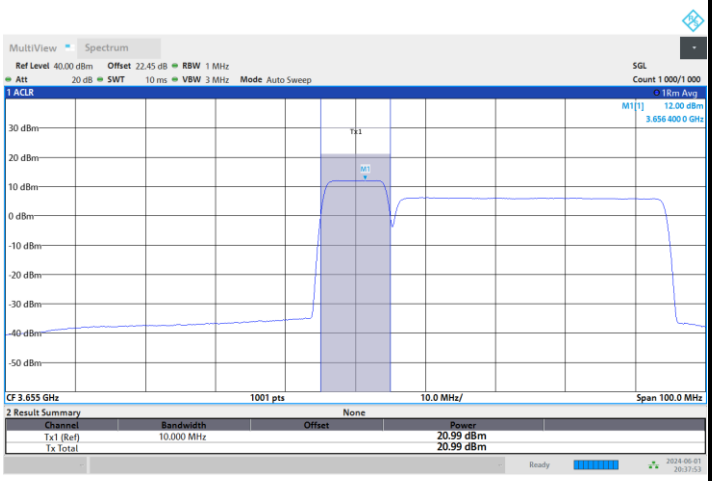
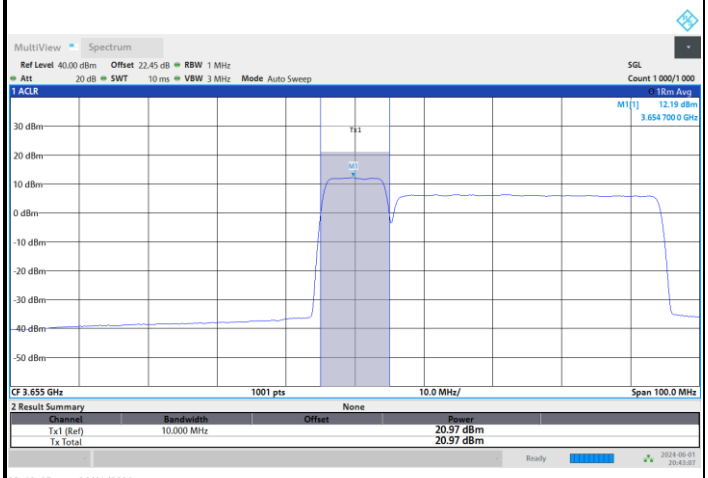
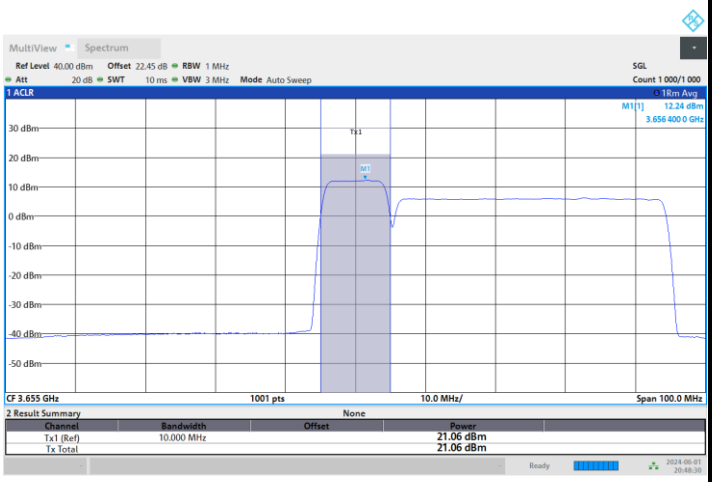
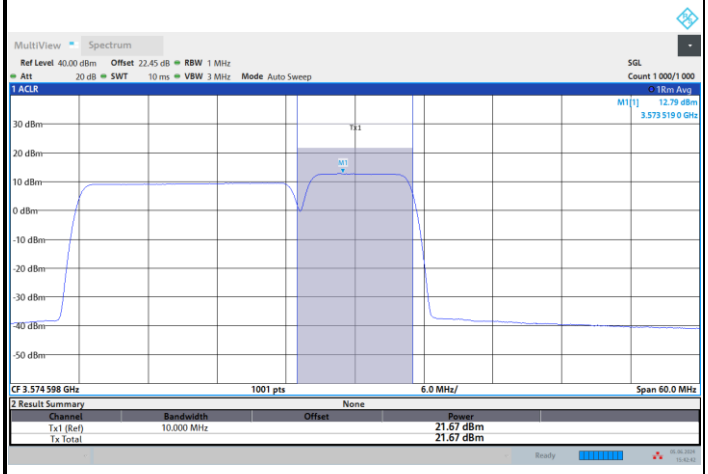
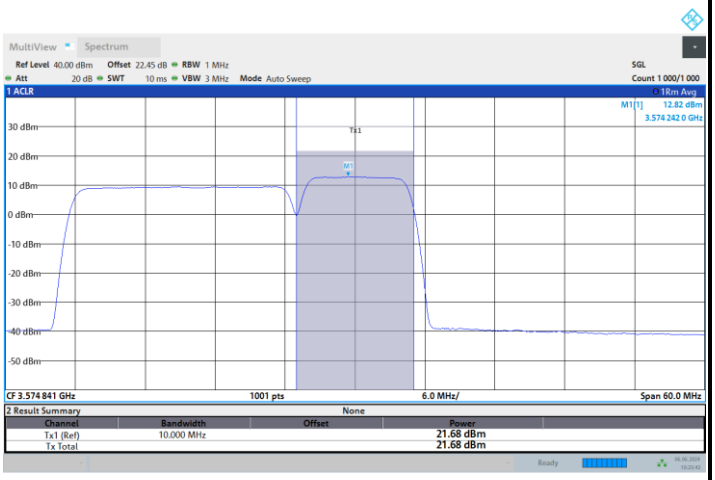
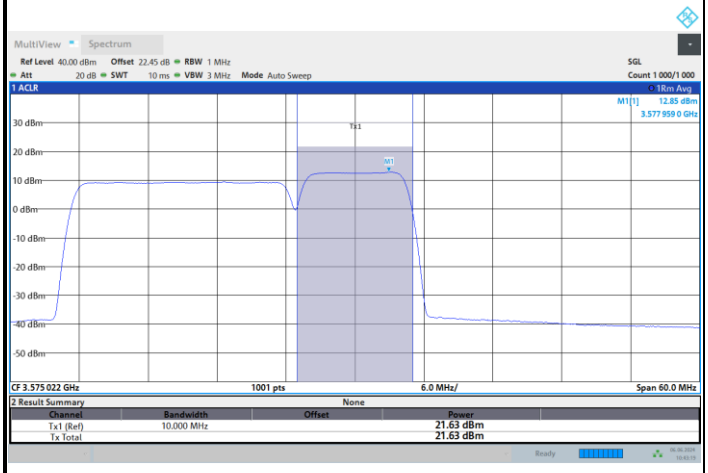
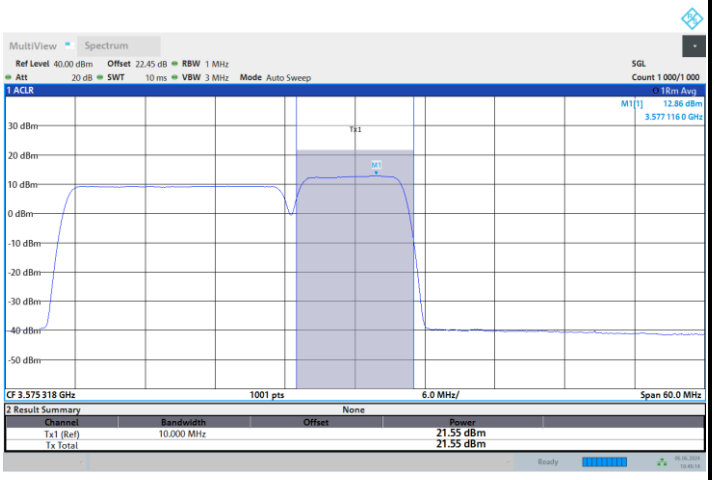


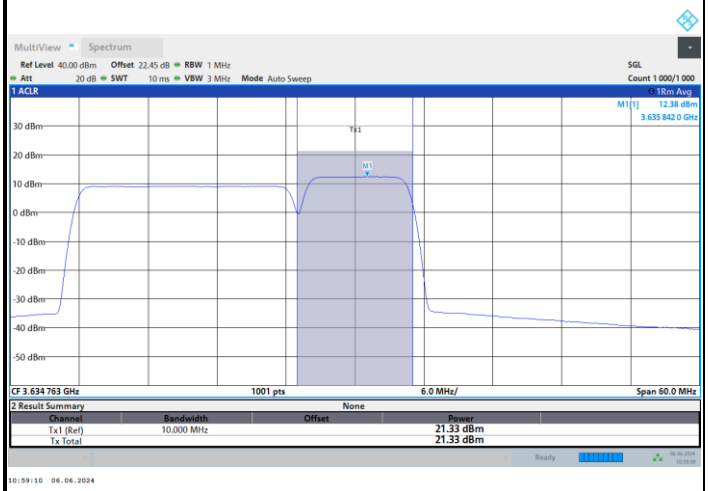
FR1 n48 / 10MHz+40MHz / Middle Channel / Conducted (dBm/10MHz)	
QPSK	16QAM
	
64QAM	256QAM
	

FR1 n48 / 10MHz+40MHz / Highest Channel / Conducted (dBm/10MHz)	
QPSK	16QAM
	
64QAM	256QAM
	

FR1 n48 / 20MHz+10MHz / Lowest Channel / Conducted (dBm/10MHz)	
QPSK	16QAM
	
64QAM	256QAM
	

FR1 n48 / 20MHz+10MHz / Middle Channel / Conducted (dBm/10MHz)

QPSK



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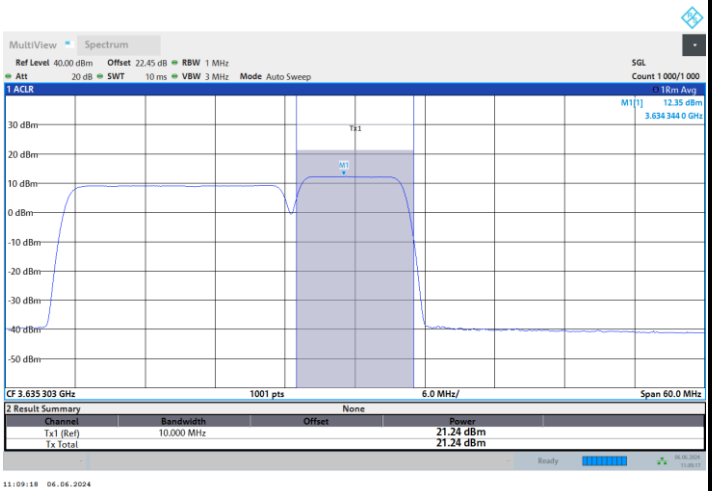

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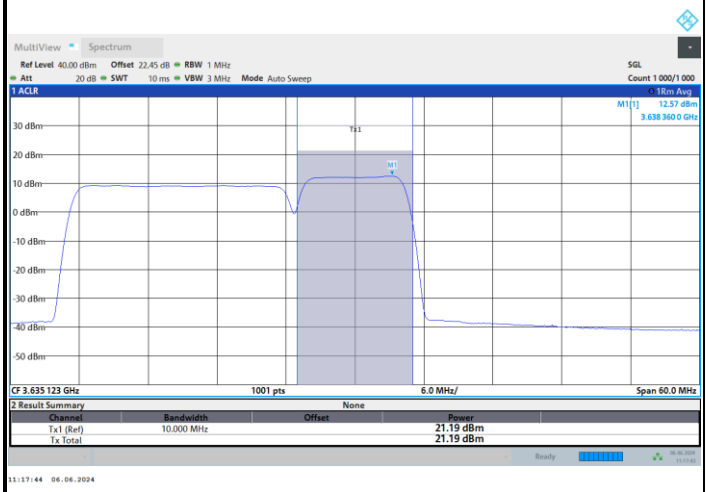

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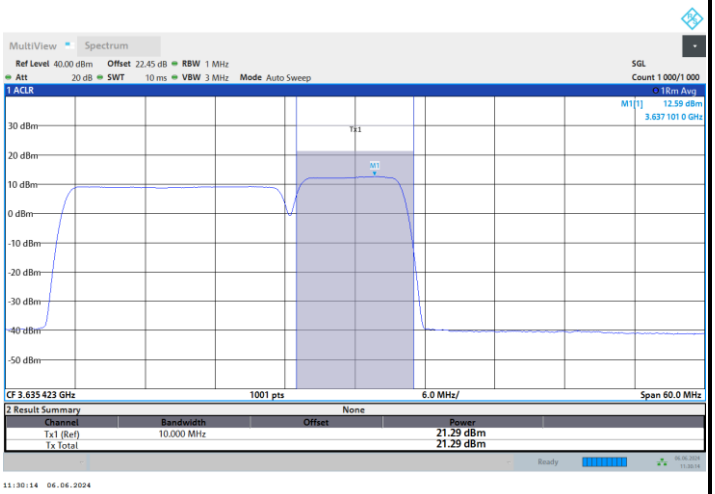
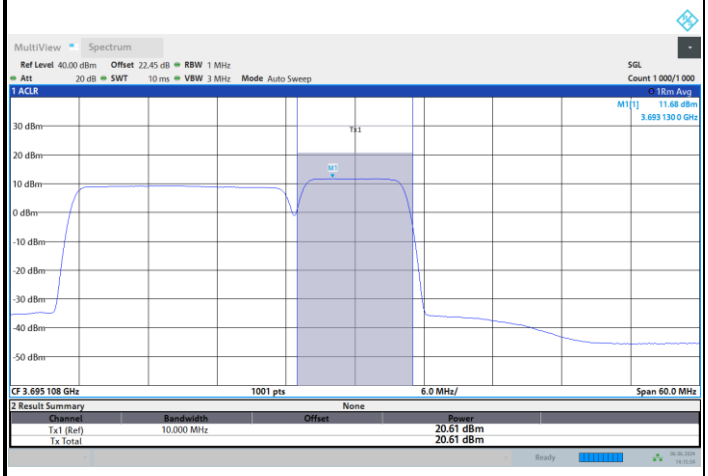


FR1 n48 / 20MHz+10MHz / Highest Channel / Conducted (dBm/10MHz)

QPSK



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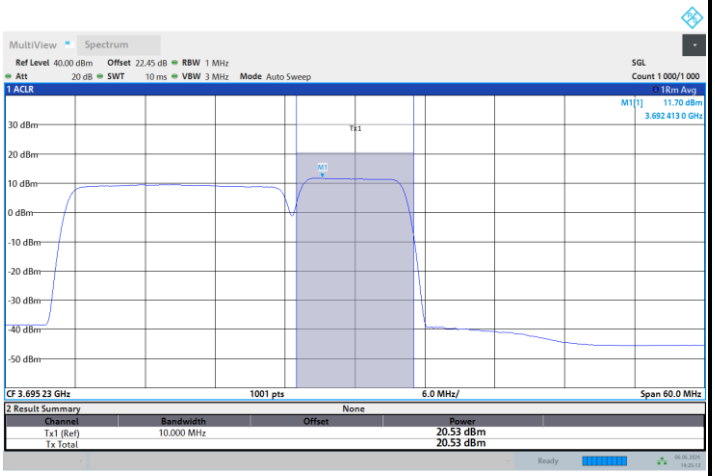

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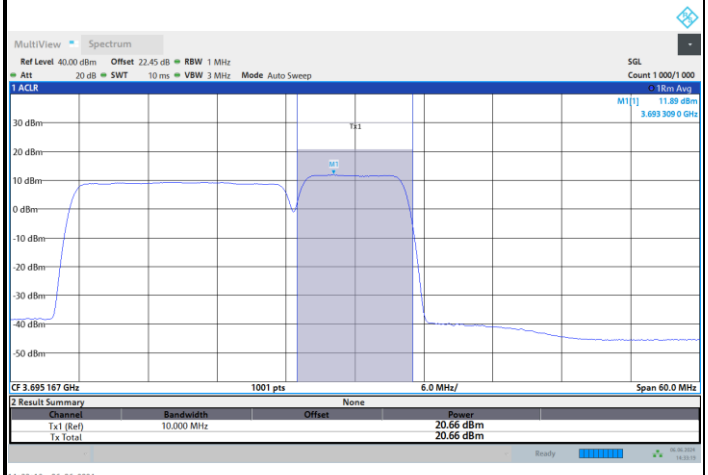

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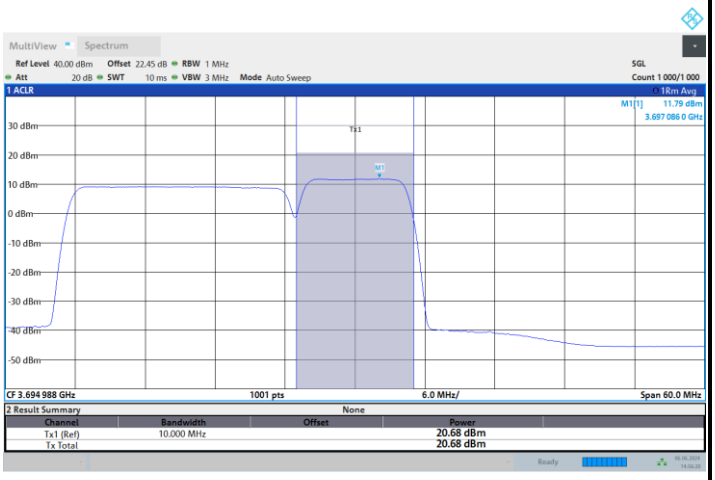
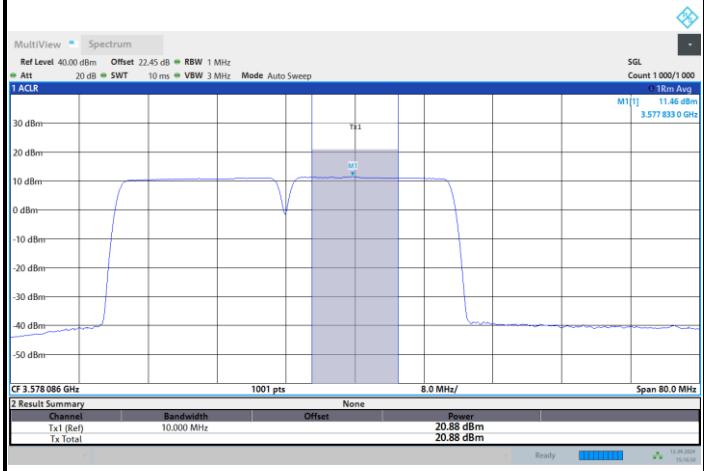


FR1 n48 / 20MHz+20MHz / Lowest Channel / Conducted (dBm/10MHz)

QPSK



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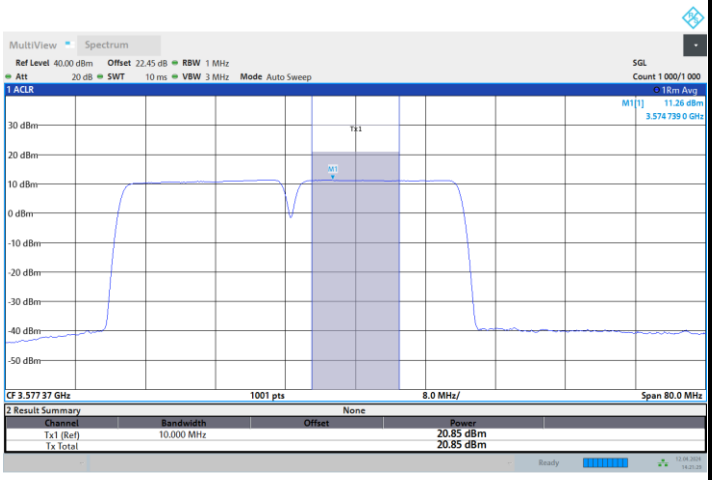

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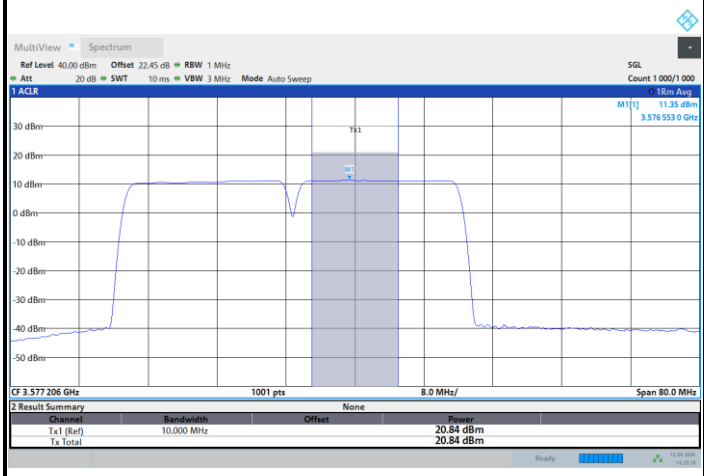

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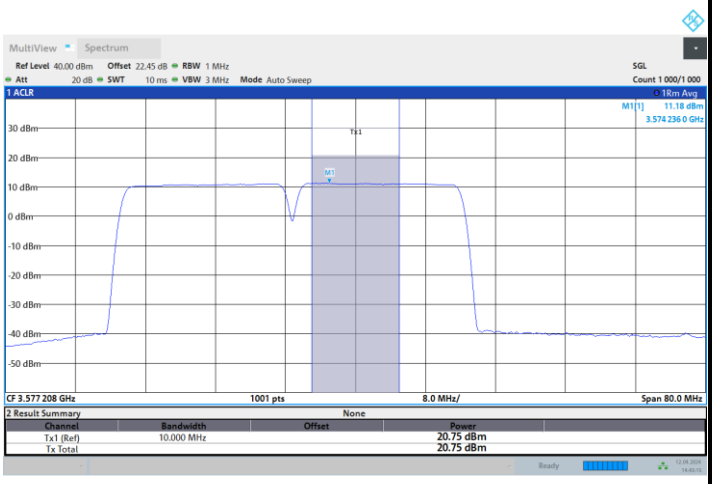

FR1 n48 / 20MHz+20MHz / Middle Channel / Conducted (dBm/10MHz)	
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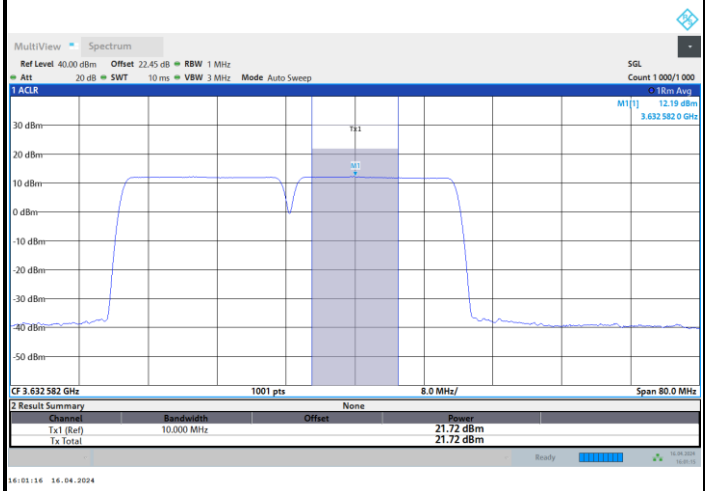	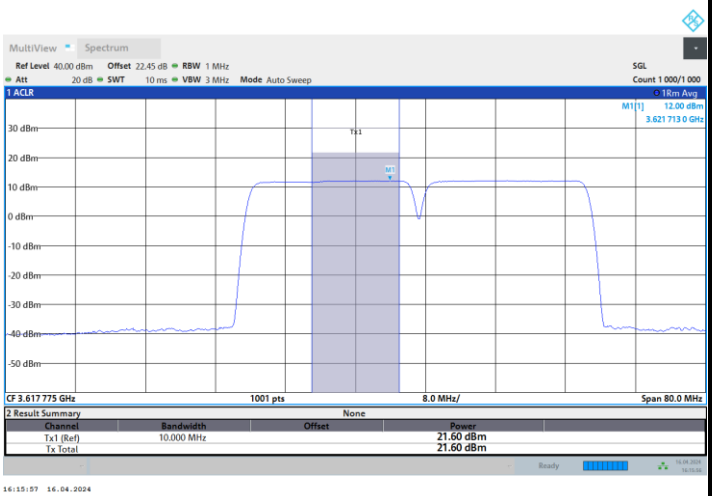
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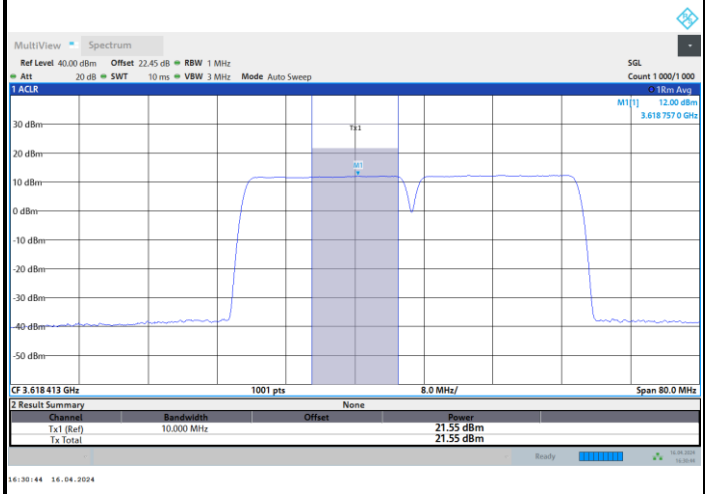
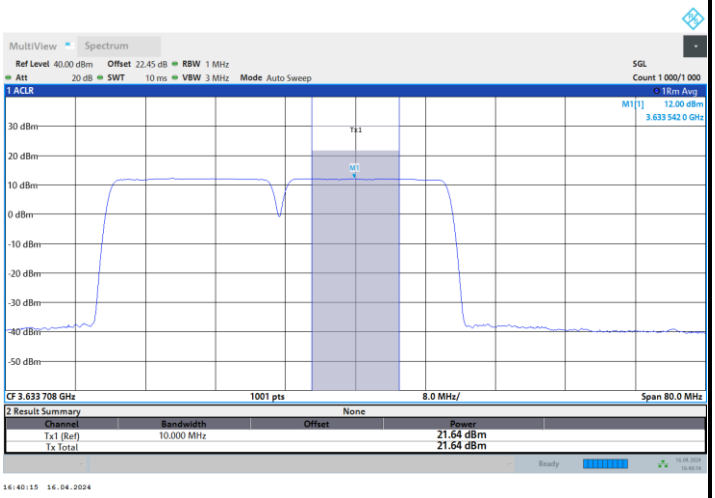
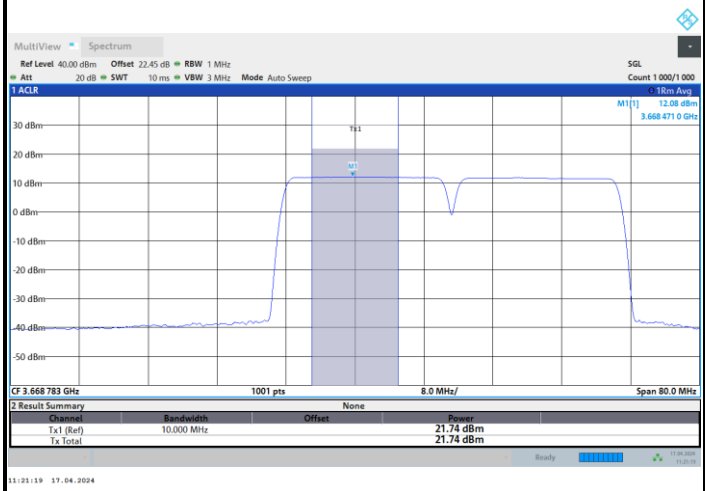
	

FR1 n48 / 20MHz+20MHz / Highest Channel / Conducted (dBm/10MHz)

QPSK



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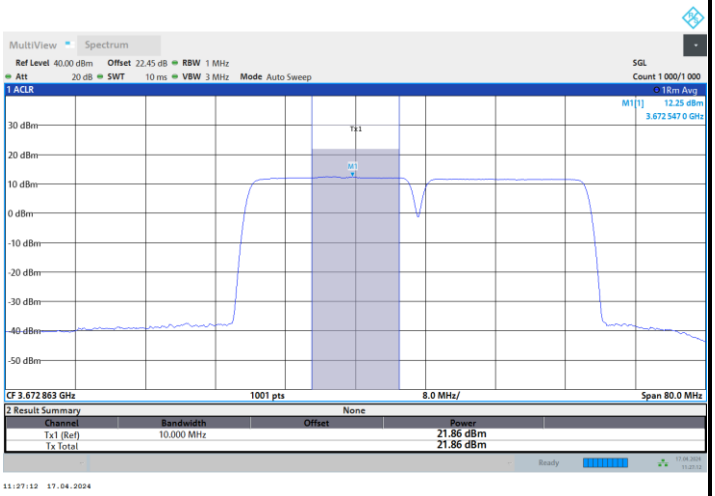

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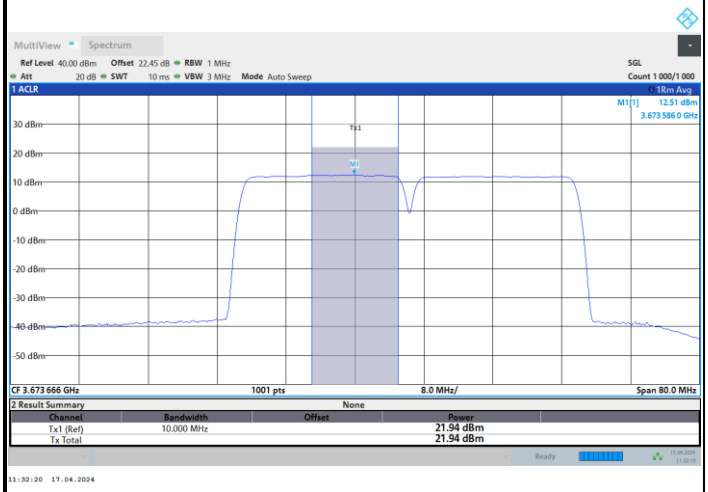

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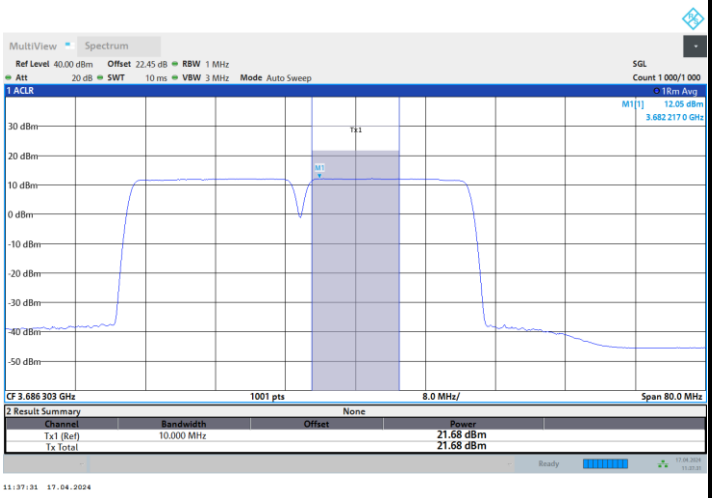
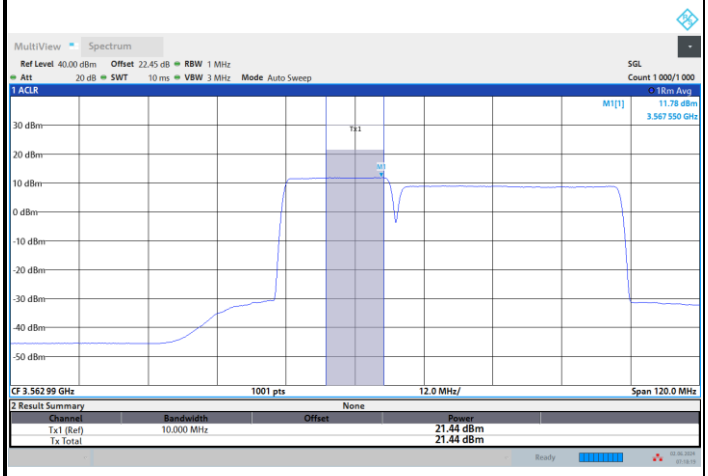


FR1 n48 / 20MHz+40MHz / Lowest Channel / Conducted (dBm/10MHz)

QPSK



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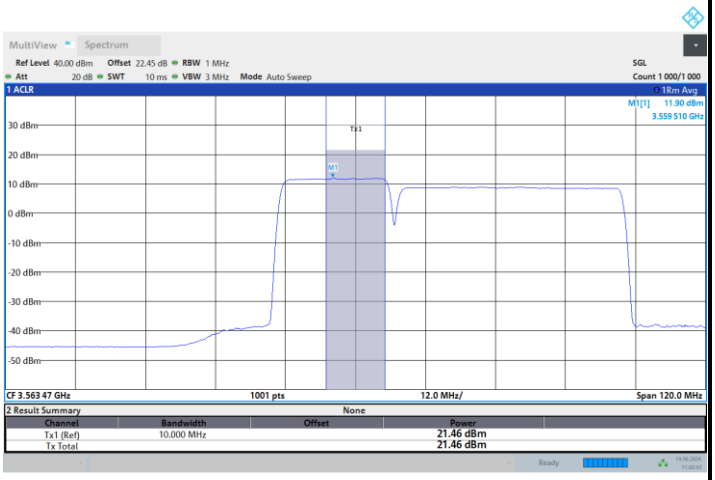

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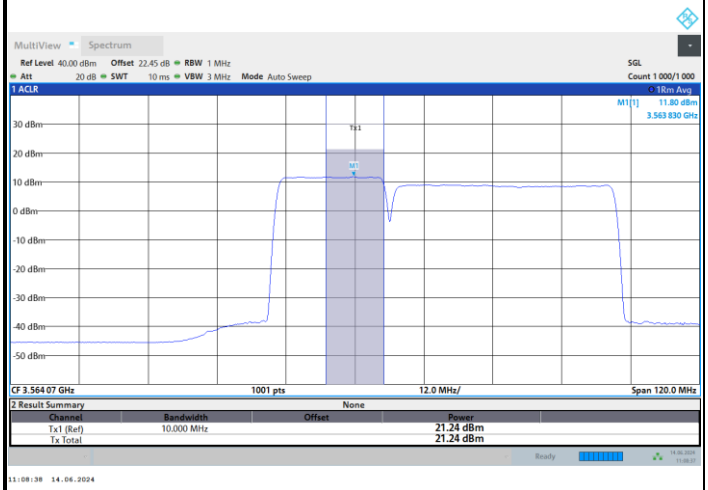

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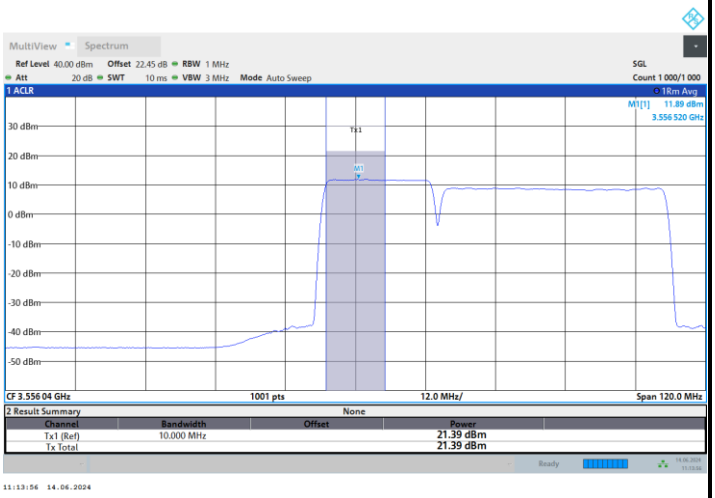
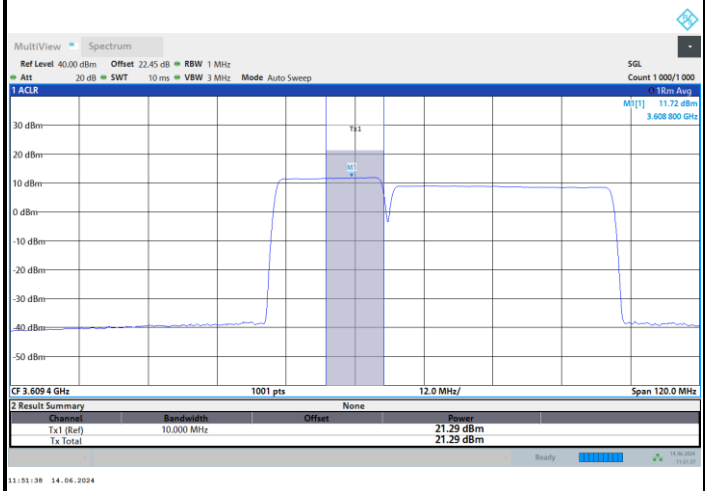


FR1 n48 / 20MHz+40MHz / Middle Channel / Conducted (dBm/10MHz)

QPSK



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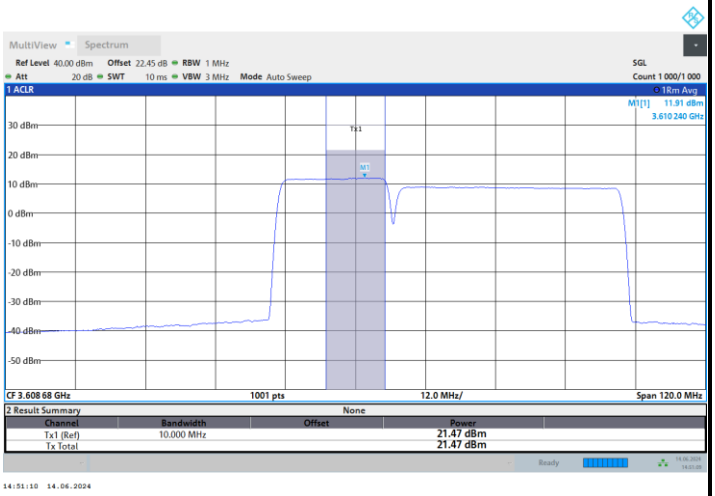

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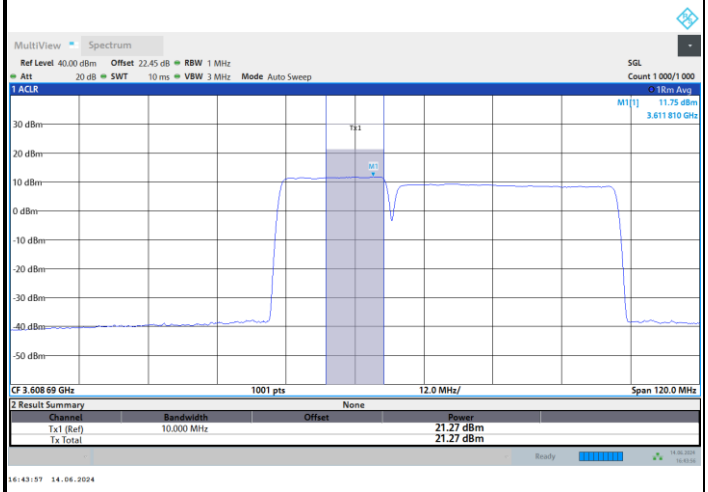

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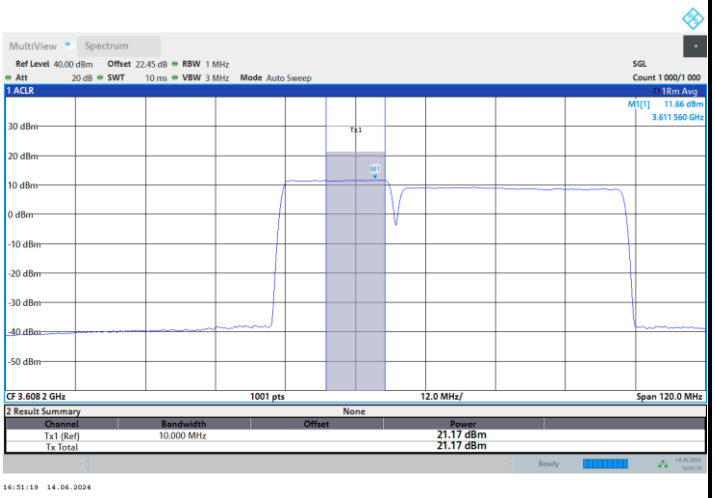
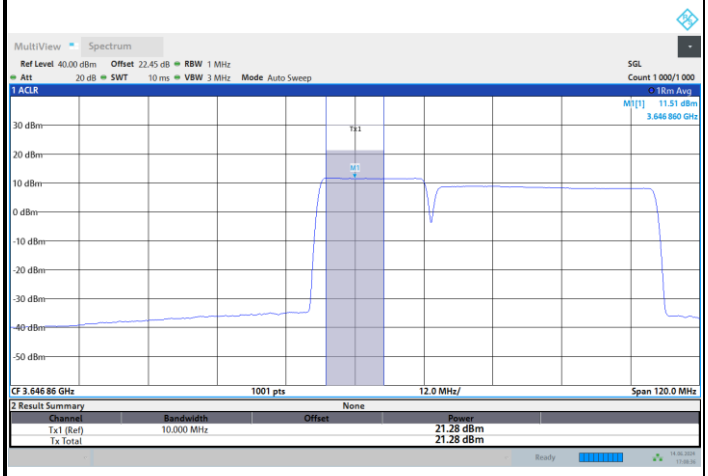


FR1 n48 / 20MHz+40MHz / Highest Channel / Conducted (dBm/10MHz)

QPSK



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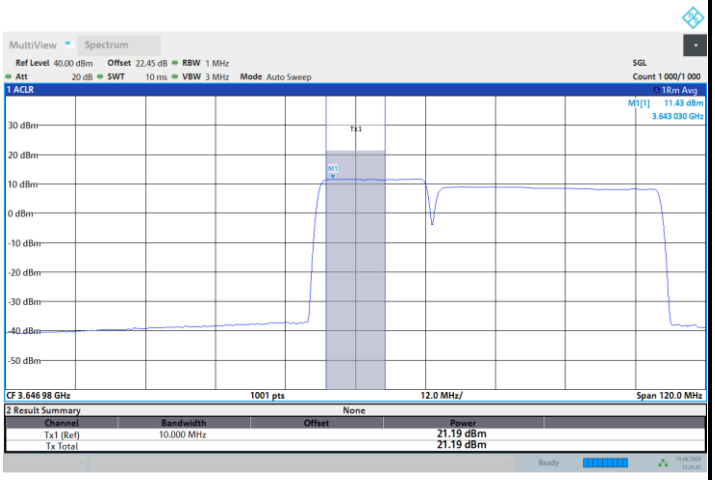

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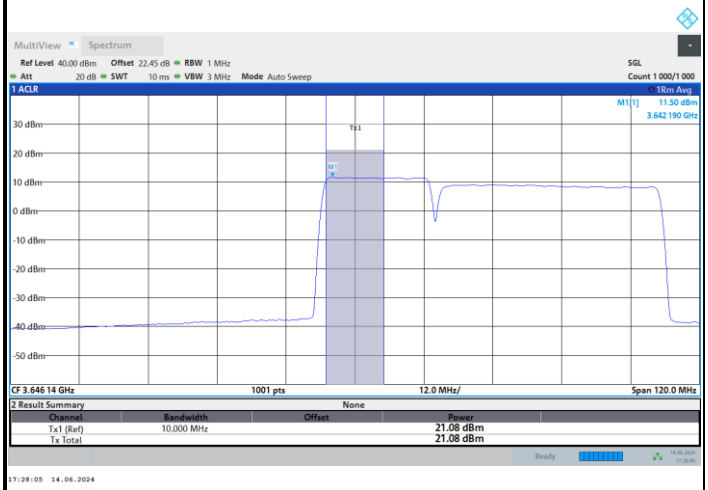

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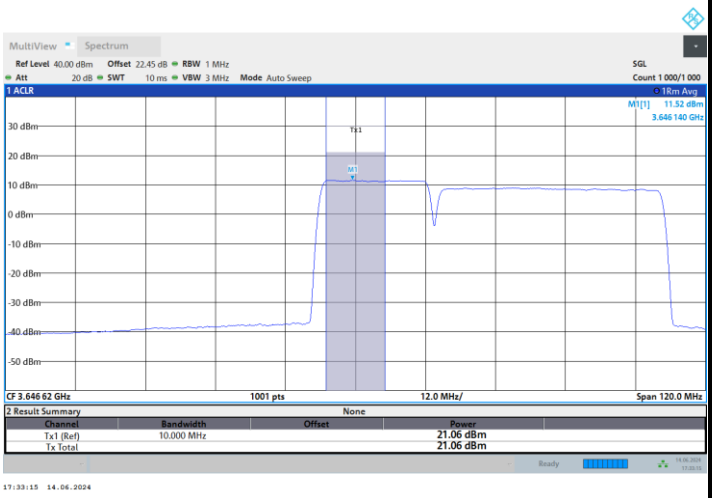
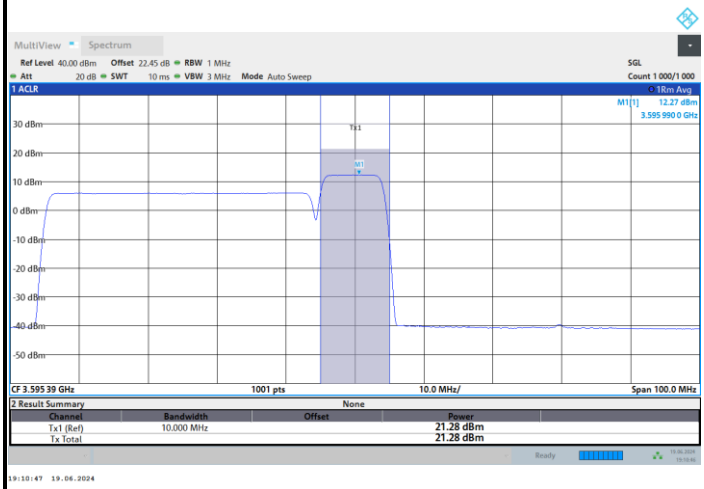


FR1 n48 / 40MHz+10MHz / Lowest Channel / Conducted (dBm/10MHz)

QPSK



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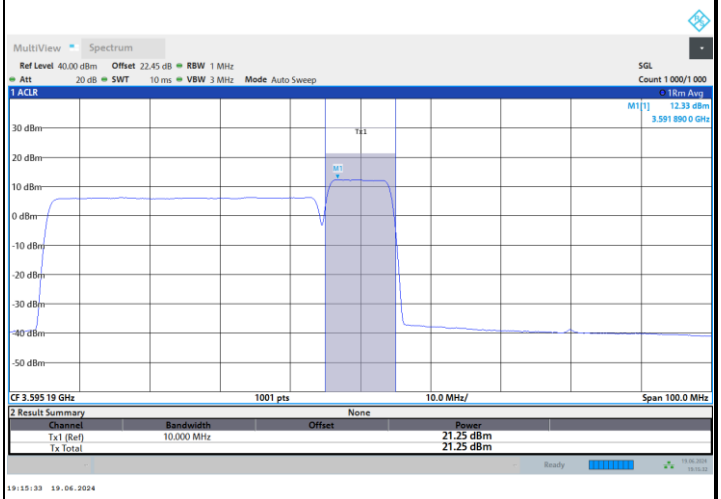

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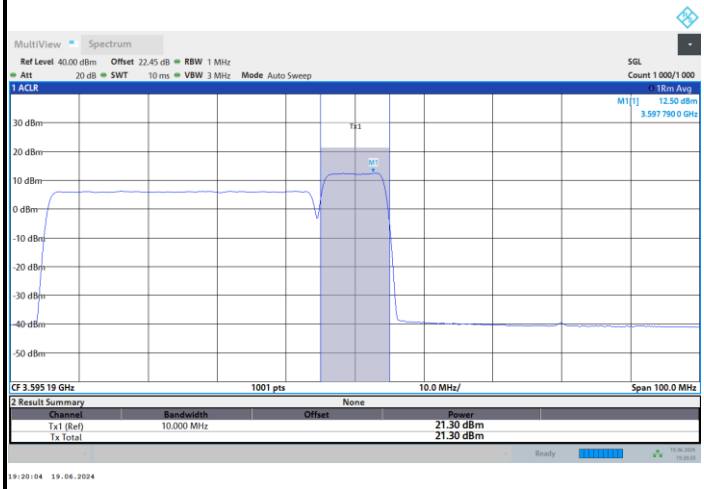

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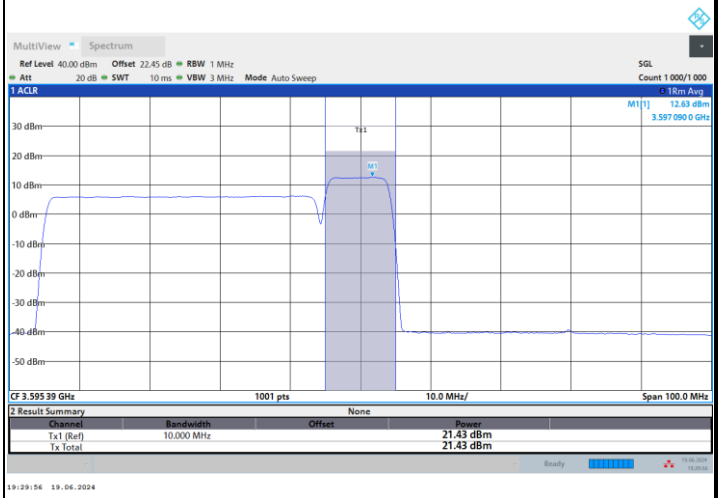
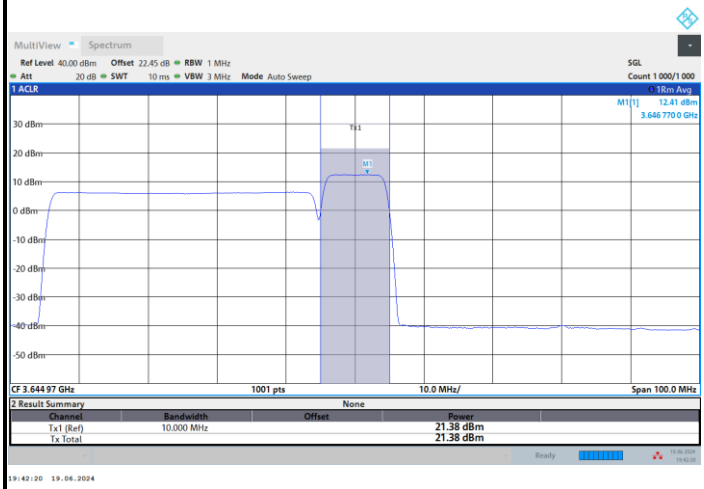


FR1 n48 / 40MHz+10MHz / Middle Channel / Conducted (dBm/10MHz)

QPSK



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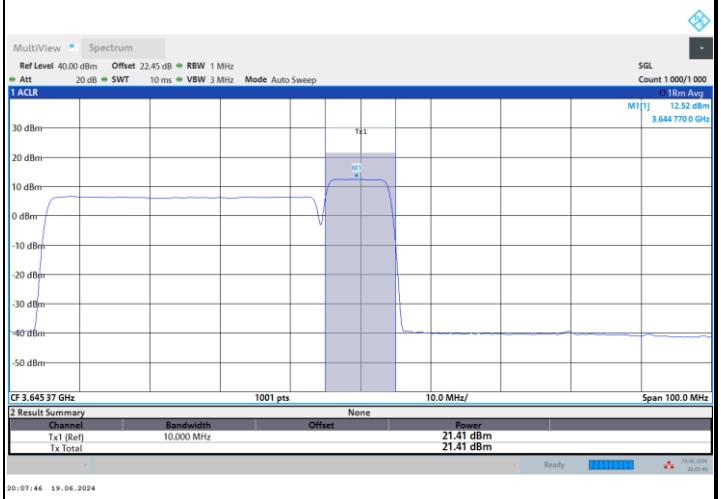

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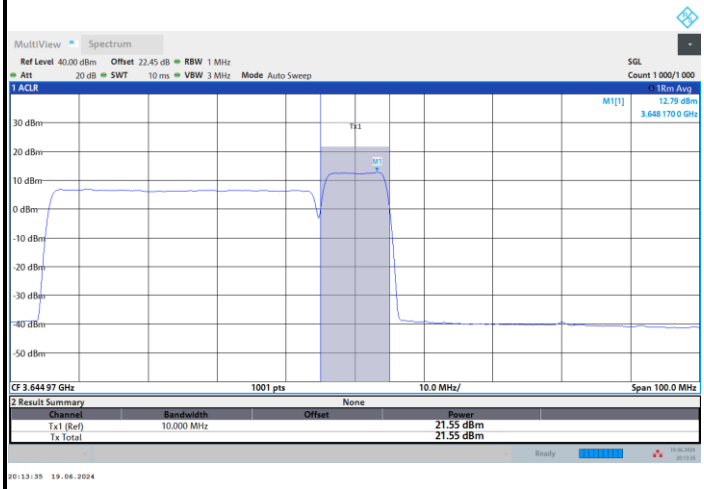

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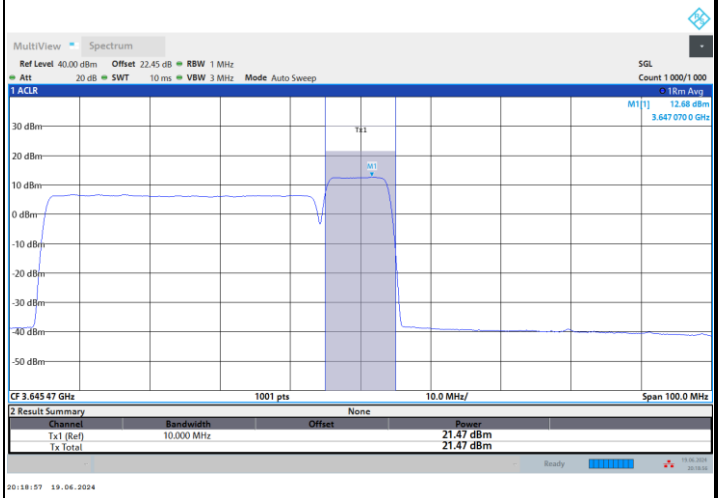
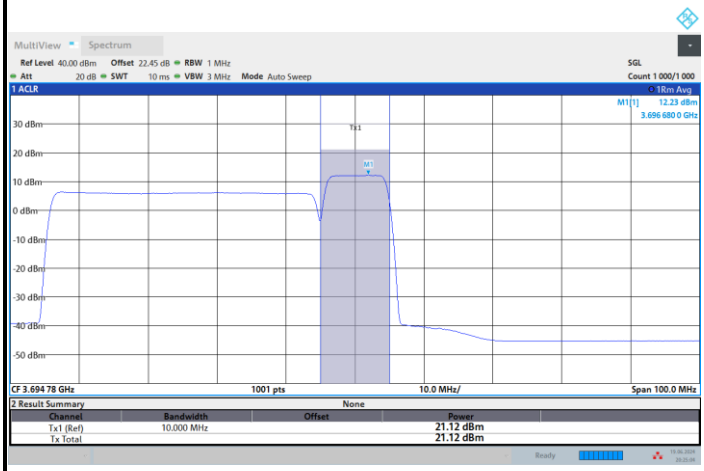


FR1 n48 / 40MHz+10MHz / Highest Channel / Conducted (dBm/10MHz)

QPSK



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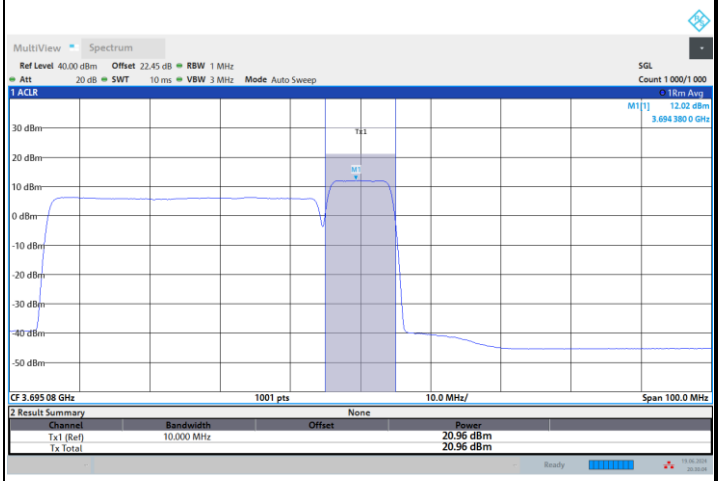

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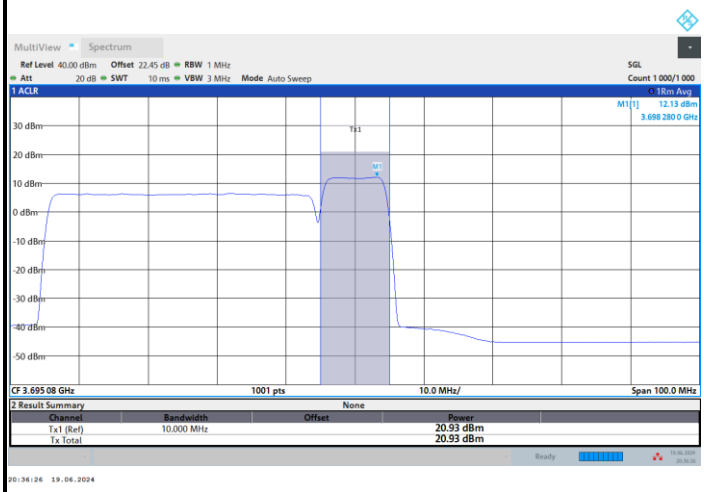

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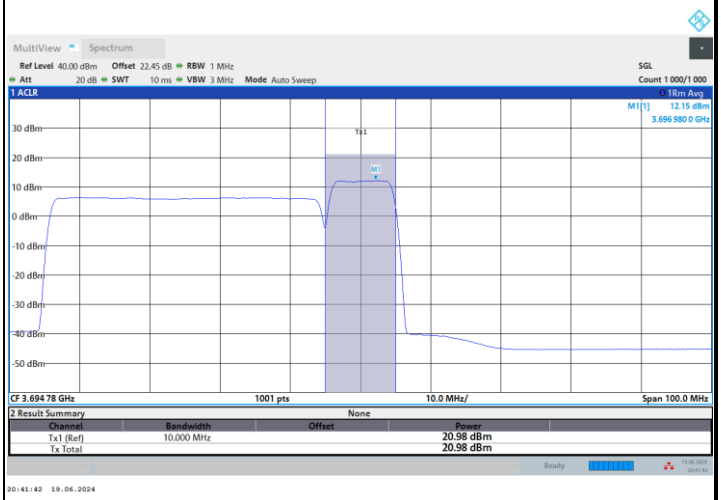
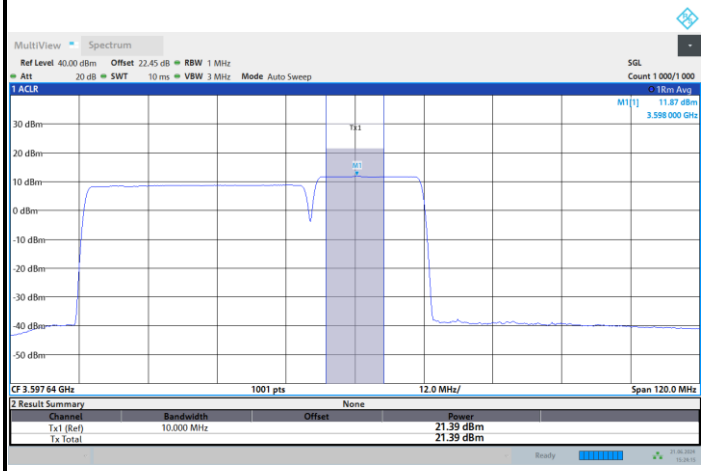


FR1 n48 / 40MHz+20MHz / Lowest Channel / Conducted (dBm/10MHz)

QPSK



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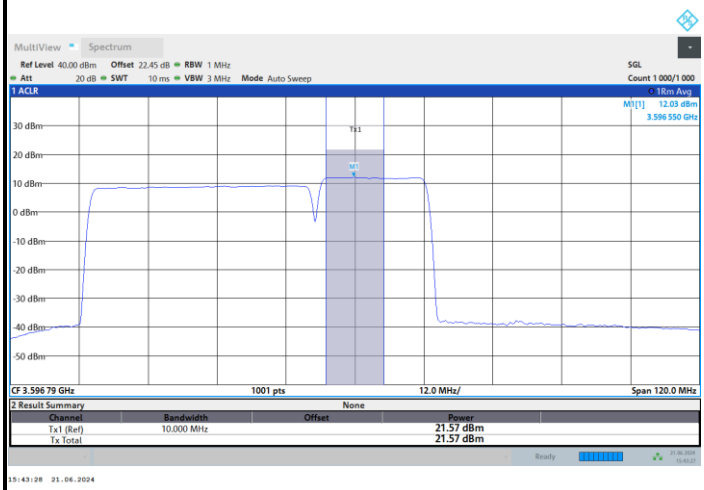

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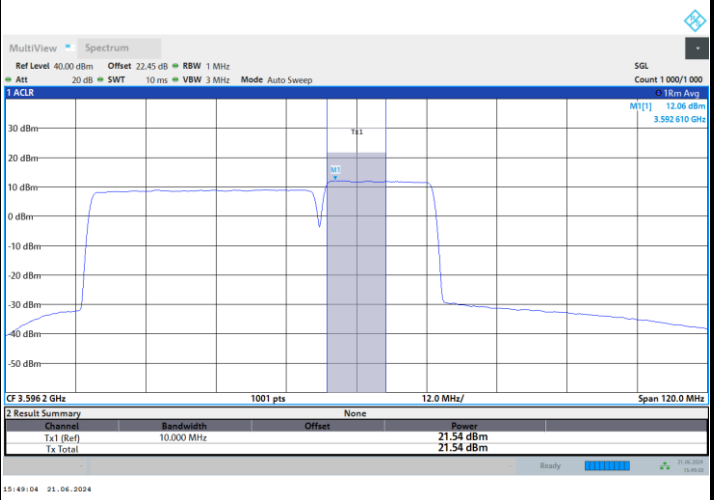
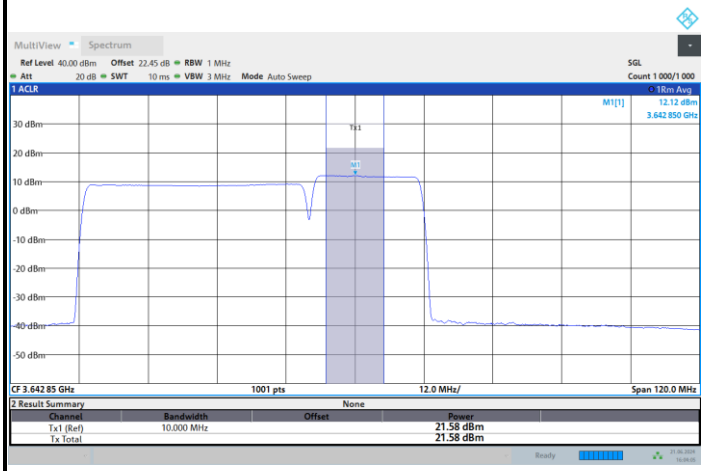
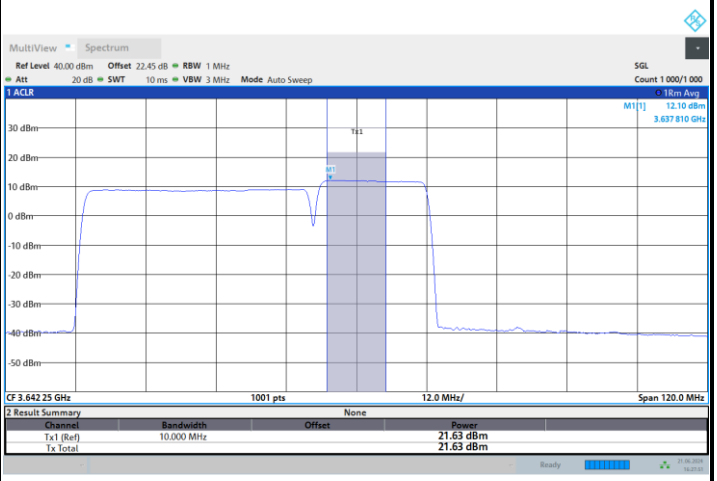
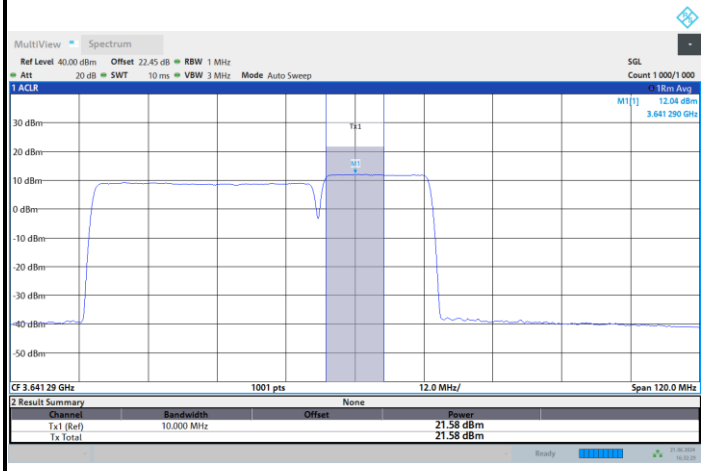
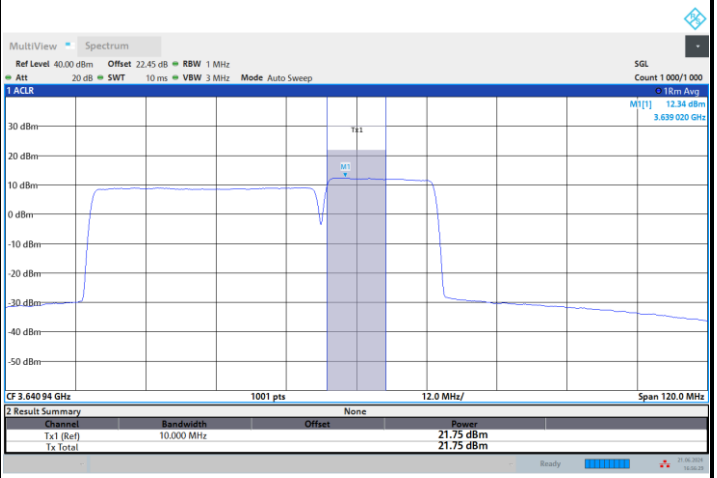
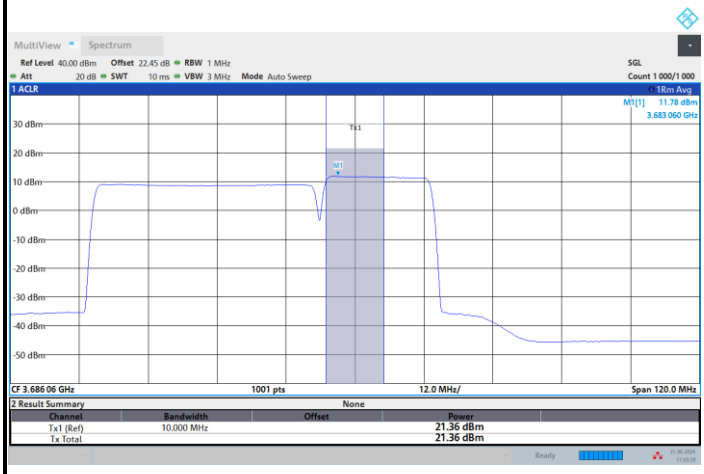


FR1 n48 / 40MHz+20MHz / Middle Channel / Conducted (dBm/10MHz)	
QPSK	16QAM
	
64QAM	256QAM
	

FR1 n48 / 40MHz+20MHz / Highest Channel / Conducted (dBm/10MHz)

QPSK



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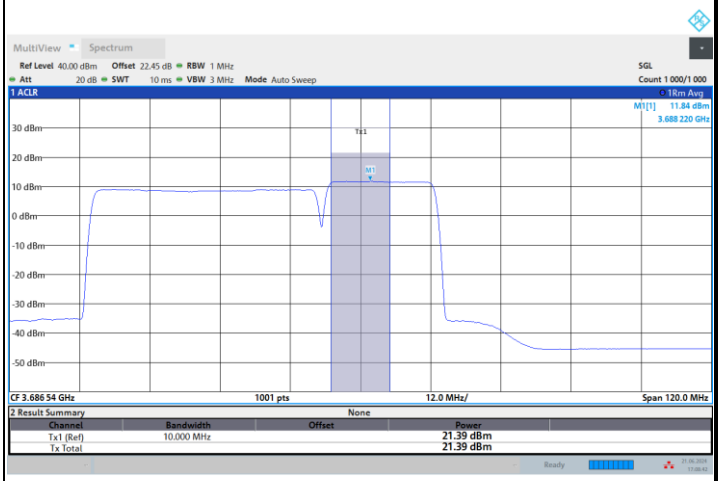

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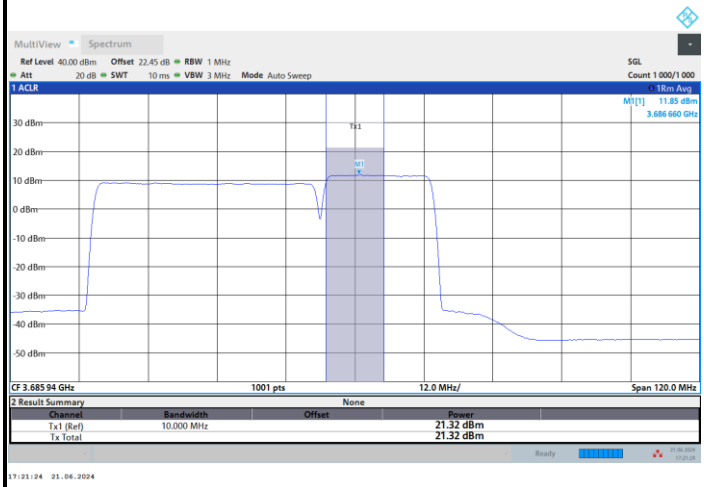

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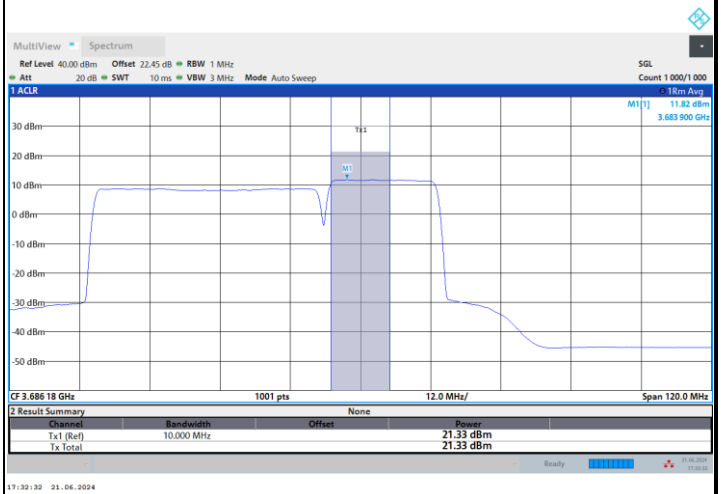
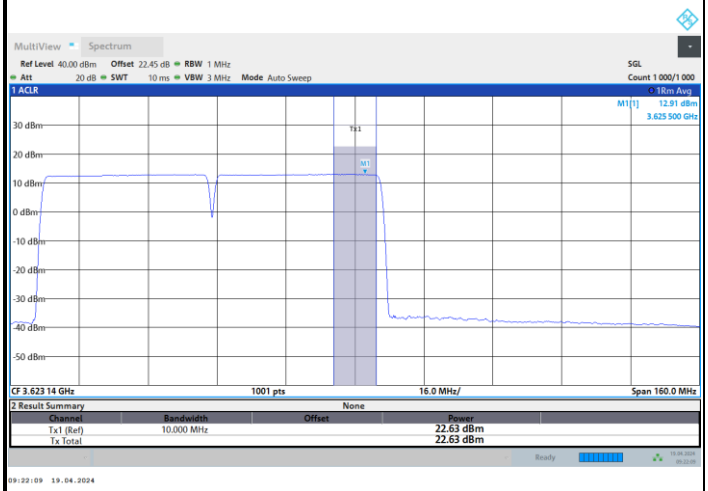


FR1 n48 / 40MHz+40MHz / Lowest Channel / Conducted (dBm/10MHz)

QPSK



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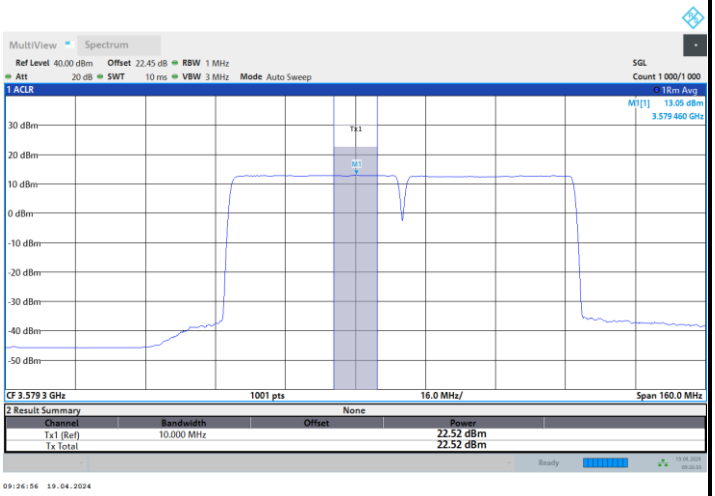

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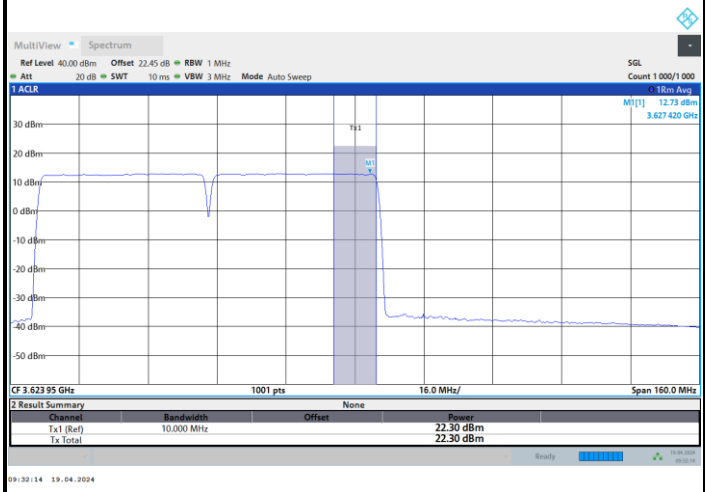
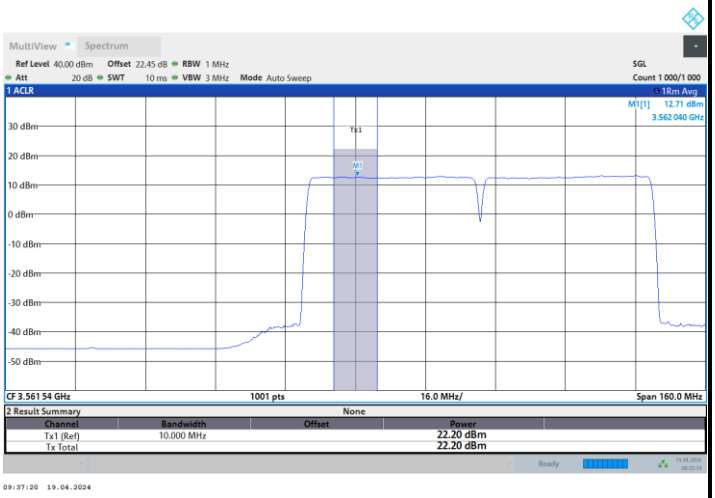
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