

47 CFR PART 15 SUBPART E TEST REPORT

for

Laptop

Model No.: ML15

FCC ID: IR5ML15

of

Applicant: **MilDef Crete Inc.**

Address: 7F, No. 250, Sec.3, Pei Shen Rd., Shen Keng District,
New Taipei City Taiwan R.O.C.

Tested and Prepared

by

Worldwide Testing Services (Taiwan) Co., Ltd.

FCC Registration No.: TW1072, TW1140, TW1146, TW1477, TW0037

Industry Canada filed test laboratory Reg. No.: 20037, 31634



Report No.: W6M22409-23739-C-3

6F, NO. 58, LANE 188, RUEY-KUANG RD., NEIHU TAIPEI 114, TAIWAN, R.O.C.
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Registration number: W6M22409-23739-C-3
FCC ID: IR5ML15

TABLE OF CONTENTS

1	GENERAL INFORMATION	2
1.1	NOTES	2
1.2	TESTING LABORATORY	3
1.3	DETAILS OF APPROVAL HOLDER.....	3
1.4	APPLICATION DETAILS	3
1.5	GENERAL INFORMATION OF TEST ITEM	4
1.6	TEST STANDARDS.....	8
2	TECHNICAL TEST.....	9
2.1	SUMMARY OF TEST RESULTS	9
2.2	TEST ENVIRONMENT	9
2.3	TEST PROCEDURE	12
3	TEST RESULTS (ENCLOSURE).....	15
3.1	PEAK TRANSMIT POWER, FCC 15.407 (A)	16
3.2	26dB EMISSION BANDWIDTH, 99% OCCUPIED BANDWIDTH, FCC 15.407 (A)	166
3.3	PEAK POWER SPECTRAL DENSITY, FCC 15.407 (A)	223
3.4	UNDESIRABLE EMISSION LIMITS, FCC 15.407 (B)	282
3.5	AUTOMATIC DISCONTINUATION OF TRANSMISSION, FCC 15.407 (C).....	428
3.6	CONTENTION-BASED PROTOCOL (CBP)	429
3.7	RADIATED EMISSIONS FROM RECEIVER PART	446
3.8	POWER LINE CONDUCTED EMISSION	447



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22409-23739-C-3
FCC ID: IR5ML15

1 General Information

1.1 Notes

The purpose of conformity testing is to increase the probability of adherence to the essential requirements or conformity specifications, as appropriate.

The complexity of the technical specifications, however, means that full and thorough testing is impractical for both technical and economic reasons.

Furthermore, there is no guarantee that a test sample which has passed all the relevant tests conforms to a specification.

Neither is there any guarantee that such a test sample will interwork with other genuinely open systems. The existence of the tests nevertheless provides the confidence that the test sample possesses the qualities as maintained and that its performance generally conforms to representative cases of communications equipment.

Laboratory disclaimer-

1. The test results of this test report relate exclusively to the item tested as specified in 1.5.
2. The test report may only be reproduced or published in full.
3. Reproduction or publication of extracts from the report requires the prior written approval of the Worldwide Testing Services(Taiwan) Co., Ltd.
4. Antenna gain is provided by applicant and laboratory issue relevant data and results.

Specific Conditions:

Usage of the hereunder tested device in combination with other integrated or external antennas requires at least additional output power measurements, spurious emission measurements, conducted emission measurements (AC supply lines) and radio frequency exposure evaluations for each individual configuration performed, for certification by FCC.

Tester:

November 29, 2024

Ken Kang

Date

WTS-Lab.

Name

Signature

Technical responsibility for area of testing:

November 29, 2024

Kevin Wang

Date

WTS

Name

Signature



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22409-23739-C-3

FCC ID: IR5ML15

1.2 Testing laboratory

1.2.1 Location

10m OATS

No.5-1, Lishui, Shuang Sing Village, Wanli Dist.,
New Taipei City 207, Taiwan (R.O.C.)

3 meter semi-anechoic chamber

No. 99, Sec. 1, Balian Rd., Xizhi Dist.,
New Taipei City 221032, Taiwan (R.O.C.)

Worldwide Testing Services (Taiwan) Co., Ltd.

6F., No. 58, Ln. 188, Ruiguang Rd., Neihu Dist.,
Taipei City 114, Taiwan (R.O.C.)

Tel: 886-2-6606-8877

1.2.2 Details of accreditation status

Accredited testing laboratory

FCC filed test laboratory Reg. No.: TW1072, TW1140, TW1146, TW1477, TW0037

Industry Canada filed test laboratory Reg. No.: 20037, 31634

Test location, where different from Worldwide Testing Services (Taiwan) Co., Ltd.:

Name: ./.

Accredited number: ./.

Street: ./.

Town: ./.

Country: ./.

1.3 Details of approval holder

Name: MilDef Crete Inc.

Street: 7F, No. 250, Sec.3, Pei Shen Rd., Shen Keng District,

Town: New Taipei City

Country: Taiwan R.O.C.

1.4 Application details

Date of receipt of test item: September 27, 2024

Date of test: from September 30, 2024 to December 02, 2024



Registration number: W6M22409-23739-C-3
FCC ID: IR5ML15

1.5 General information of Test item

Type of test item: Laptop
Model number: ML15
Brand name: MilDef Crete
Multi-listing model number: ./.
Sample no.: #01

Technical data

Frequency band: WLAN 6E
U-NII 5: 5.925 GHz-6.425 GHz, U-NII 6: 6.425 GHz-6.525 GHz,
U-NII 7: 6.525 GHz-6.875 GHz, U-NII 8: 6.875 GHz-7.125 GHz

Band	Mode	Channel	Conducted Power (dBm)
UNII 5	802.11a	Ch 1 : 5955 MHz	0.77
		Ch 45: 6175 MHz	1.38
		Ch 93 : 6415 MHz	1.22
	802.11ax 20MHz	Ch 1 : 5955 MHz	4.04
		Ch 45: 6175 MHz	4.28
		Ch 93 : 6415 MHz	4.20
	802.11ax 40MHz	Ch 3 : 5965 MHz	6.82
		Ch 43 : 6165 MHz	7.04
		Ch 91 : 6405 MHz	6.96
	802.11ax 80MHz	Ch 7 : 5985 MHz	9.53
		Ch 39 : 6145 MHz	9.73
		Ch 87 : 6385 MHz	10.35
	802.11ax 160MHz	Ch 15 : 6025 MHz	12.75
		Ch 47 : 6185 MHz	12.80
		Ch 79 : 6345 MHz	12.78



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22409-23739-C-3

FCC ID: IR5ML15

Band	Mode	Channel	Conducted Power (dBm)
UNII 6	802.11a	Ch 97 : 6345 MHz	1.45
		Ch 105: 6475 MHz	1.32
		Ch 113 : 6515 MHz	1.48
	802.11ax 20 MHz	Ch 97 : 6345 MHz	5.35
		Ch 105: 6475 MHz	5.20
		Ch 113 : 6515 MHz	5.34
	802.11ax 40 MHz	Ch 99 : 6445 MHz	7.94
		Ch 107 : 6485 MHz	7.85
	802.11ax 80 MHz	Ch 103 : 6465 MHz	10.41

Band	Mode	Channel	Conducted Power (dBm)
UNII 6-7	802.11ax 40 MHz	Ch 115 : 6525 MHz	7.86
	802.11ax 80 MHz	Ch 119 : 6545 MHz	10.41
	802.11ax 160 MHz	Ch 111 : 6505 MHz	12.99

Band	Mode	Channel	Conducted Power (dBm)
UNII 7	802.11a	Ch 117 : 6535 MHz	0.46
		Ch 149 : 6695 MHz	0.26
		Ch 181 : 6855 MHz	0.34
	802.11ax 20 MHz	Ch 117 : 6535 MHz	4.28
		Ch 149 : 6695 MHz	4.17
		Ch 181 : 6855 MHz	4.27
	802.11ax 40 MHz	Ch 123 : 6565 MHz	6.98
		Ch 147 : 6685 MHz	6.95
		Ch 179 : 6845 MHz	6.94
	802.11ax 80 MHz	Ch 135 : 6625 MHz	9.49
		Ch 151 : 6705 MHz	9.54
		Ch 167 : 6785 MHz	9.59
	802.11ax 160 MHz	Ch 143 : 6665 MHz	12.16



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22409-23739-C-3

FCC ID: IR5ML15

Band	Mode	Channel	Conducted Power (dBm)
UNII 7-8	802.11a	Ch 185 : 6875 MHz	0.50
	802.11ax 20 MHz	Ch 185 : 6875 MHz	4.38
	802.11ax 40 MHz	Ch 187 : 6885 MHz	6.99
	802.11ax 80 MHz	Ch 183 : 6865 MHz	9.75
	802.11ax 160 MHz	Ch 175 : 6825 MHz	12.21

Band	Mode	Channel	Conducted Power (dBm)
UNII 8	802.11a	Ch 189 : 6895 MHz	0.37
		Ch 209 : 6995 MHz	0.72
		Ch 229 : 7095 MHz	0.81
	802.11ax 20 MHz	Ch 189 : 6895 MHz	4.17
		Ch 209 : 6995 MHz	4.43
		Ch 229 : 7095 MHz	4.42
	802.11ax 40 MHz	Ch 195 : 6925 MHz	6.91
		Ch 211 : 7005 MHz	7.19
		Ch 227 : 7085 MHz	7.29
	802.11ax 80 MHz	Ch 199 : 6945 MHz	9.82
		Ch 215 : 7025 MHz	9.87
	802.11ax 160 MHz	Ch 207 : 6985 MHz	12.49

Operating modes: Duplex

Type of modulation: OFDM/DSSS

Fixed point to point operation: Yes / No

Type of antenna: PIFA antenna

Antenna gain:

- MAIN antenna
- UNII 5: -1.19 dBi
- UNII 6: -3.20 dBi
- UNII 6-7: -0.54 dBi
- UNII 7: -0.54 dBi
- UNII 7-8: -0.54 dBi
- UNII 8: -0.54 dBi



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22409-23739-C-3
FCC ID: IR5ML15

AUX antenna
UNII 5: 0.45 dBi
UNII 6: -0.01 dBi
UNII 6-7: -0.01 dBi
UNII 7: -0.12 dBi
UNII 7-8: 1.33 dBi
UNII 8: 1.33 dBi

Directional gain:
UNII 5: 2.68 dBi
UNII 6: 1.55 dBi
UNII 6-7: 2.74 dBi
UNII 7: 2.68 dBi
UNII 7-8: 3.46 dBi
UNII 8: 3.46 dBi

Power supply: Adapter (I/P: 100-240V~50-60Hz, 2.2A MAX.
O/P: 19.0V=8.4A, 159.6W)
Battery 10.905Vd.c. 6000mAh 65.43Wh

Note: Tests were performed under worst case mode 802.11a 6 Mbps, 802.11ax 20MHz(MCS0), 802.11ax 40MHz(MCS0) and 802.11ax 80MHz(MCS0).



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22409-23739-C-3

FCC ID: IR5ML15

Note: This device was functioned as a ☐ Master ☐ Slave device during the DFS

Manufacturer: (if applicable)

Name: ./.

Street: ./.

Town: ./.

Country: ./.

Duty cycle

Mode	T _{on} (ms)	T _{on} +T _{off} (ms)	Duty cycle (%)	Duty Factor (dB)	1/T - VBW (kHz)
802.11a	0.340	0.420	80.95%	0.92	2.94
802.11ax 20M	0.125	0.160	78.13%	1.07	8.00
802.11ax 40M	0.125	0.157	79.62%	0.99	8.00
802.11ax 80M	0.125	0.163	76.69%	1.15	8.00
802.11ax 160M	0.128	0.163	78.53%	1.05	7.81

1.6 Test standards

47 CFR PART 15 SUBPART C § 15.407 (2023-10)

KDB 987594 D02 U-NII 6 GHz EMC Measurement v03

KDB 789033 D02 General U-NII Test Procedures New Rules v02r01



Registration number: W6M22409-23739-C-3

FCC ID: IR5ML15

2 Technical test

2.1 Summary of test results

No deviations from the technical specification(s) were ascertained in the course of the tests performed.



or

The deviations were ascertained in the course of the tests performed.



2.2 Test environment

Relative humidity content: 20 ... 75 %

Air pressure: 86 ... 103 kPa

Details of power supply: Adapter (I/P: 100-240V~50-60Hz, 2.2A MAX.

O/P: 19.0V=8.4A, 159.6W)

Battery 10.905Vd.c. 6000mAh 65.43Wh

Test item Name	Uncertainty
Estimation Result of Uncertainty of Conducted Emission (Power Line Conducted Emission)	Expanded Uncertainty : AMN : 0.94 dB Voltage probe : 0.96 dB Include Pulse Limiter : 1.5 dB
Estimation Result of Uncertainty of Radiated Emission(3M-966A) (Undesirable emission limits, Radiated Emissions from Receiver Part)	Expanded Uncertainty : 0.009-30 MHz : 1.88 dB 30-1000 MHz : 3.20 dB 1-18 GHz : 3.56 dB 18-40 GHz : 2.94 dB B
Estimation Result of Uncertainty of Bandwidth Measurement (26dB emission bandwidth, 99% Occupied Bandwidth)	Expanded Uncertainty : 0.45 kHz
Estimation Result of Uncertainty of Conducted Output Power Measurement (Peak Transmit Power)	Expanded Uncertainty : 1.64 dB
Estimation Result of Uncertainty of Power Density Measurement (Peak Power Spectral Density)	Expanded Uncertainty : 1.64 dB
Estimation Result of Uncertainty of EIRP Measurement (Equivalent Isotropic Radiated Power (EIRP), Radiated Emissions from Receiver Part)	Expanded Uncertainty : 30-200MHz : 3.49 dB 200-1000MHz : 3.49 dB 1-18GHz : 4.81 dB 18-40GHz : 3.94 dB
Estimation Result of Uncertainty of CBP Timing	Expanded Uncertainty : 703.36 us
Estimation Result of Uncertainty of CBP Threshold	Expanded Uncertainty : 1 dB

The decision rule is: Measurement uncertainty is not included in the calculation of test results.



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22409-23739-C-3

FCC ID: IR5ML15

2.3 Test Equipment List

Max Output Power&Power Density&EBW(26DB)&OBW&6DB Bandwidth

Code No.	Test equipment	Mode No.	Serial No.	Brand	Cal. Date	Next Cal. Date
ETSTW-RE 050	Attenuator 10dB	50HF-010-1	None	JFW	2024/2/16	2025/2/15
ETSTW-RE 099	DC Block	50DB-007-1	None	JFW	2024/2/16	2025/2/15
ETSTW-RE 155	Signal and Spectrum Analyzer	FSV3044	101136	R&S	2024/4/10	2025/4/9
ETSTW-Cable 030	Microwave Cable	SUCOFLEX 104 (S_Cable 9)	279067	HUBER+SUHNER	2024/2/16	2025/2/15

Contention Based Protocol

Code No.	Test equipment	Mode No.	Serial No.	Brand	Cal. Date	Next Cal. Date
ETSTW-RE 041	WLAN Power Dividers	50PD-519	377136	JFW	Function Test	
ETSTW-RE 099	DC Block	50DB-007-1	None	JFW	2024/2/16	2025/2/15
ETSTW-RE 133	EXA Signal Analyzer	N9010A	MY53470566	Agilent	2024/5/9	2025/5/8
ETSTW-RE 134	MXG Vector Signal Generator	N5182B	MY53050664	Agilent	2024/5/10	2025/5/9
ETSTW-RE 145	Variable attenuator	ATT2A	TW5451040	Keysight	Function Test	
ETSTW-RE 191	Frequency extender for EXG or MXG	N5182BX07	MY61500227	KEYSIGHT	2024/5/10	2025/5/9
ETSTW-Cable 030	Microwave Cable	SUCOFLEX 104 (S_Cable 9)	279067	HUBER+SUHNER	2024/2/16	2025/2/15

Spurious Emission (966A)

Code No.	Test equipment	Mode No.	Serial No.	Brand	Cal. Date	Next Cal. Date
ETSTW-RE 153	Signal Analyzer	FSV40	101929	R&S	2024/9/11	2025/9/10
ETSTW-RE 154	EMI Test Receiver	ESR3	102829	R&S	2024/4/10	2025/4/9
ETSTW-RE 160	Amplifier Module	CHC 3	None	WTS	2024/7/12	2025/7/11
ETSTW-RE 177	TRILOG Broadband Antenna	VULB 9168&EMCI-N-6-06	01380&AT-06007	SCHWARZBECK&EMC	2024/3/4	2025/3/3
ETSTW-RE 178	Double Ridged Guide Horn Antenna	DRH18-E	210505A18ES	RFSPIN	2024/2/29	2025/2/28
ETSTW-Cable 077	SMA type cable (10m)	EMC104-SM-SM-10000	230511	EMCI	2024/7/12	2025/7/11
ETSTW-Cable 084	SMA type cable (1m)	SF104-11SMA-1000	816477/4	HONOVA	2024/7/12	2025/7/11
ETSTW-Cable 089	SMA type cable (2m)	SF104-11SMA-2000	SN 811889/4	HUBER+SUHNER	2024/7/12	2025/7/11
WTSTW-SW 002	EMI TEST SOFTWARE	EZ_EMC	None	Farad	Version ETS-03A1 Version EMEC-3A1+	



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22409-23739-C-3

FCC ID: IR5ML15

AC Conducted Emission

Code No.	Test equipment	Mode No.	Serial No.	Brand	Cal. Date	Next Cal. Date
ETSTW-CE 001	EMI TEST RECEIVER	ESHS10	842121/013	R&S	2024/6/13	2025/6/12
ETSTW-CE 003	AC POWER SOURCE	APS-9102	D161137	GW	Function Test	
ETSTW-CE 016	TWO-LINE V-NETWORK	ENV216	100050	R&S	2024/10/22	2025/10/21
ETSTW-RE 045	ESA-E SERIES SPECTRUM ANALYZER	E4404B	MY45111242	Agilent	Pre-test Use	
ETSTW-Cable 093	BNC Cable (3m)	EMCCFD-300 -BM-BM-3000	240109	EMCI	2024/11/7	2025/11/6
WTSTW-SW 002	EMI TEST SOFTWARE	EZ_EMC	None	Farad	Version ETS-03A1 Version EMEC-3A1+	



Registration number: W6M22409-23739-C-3

FCC ID: IR5ML15

2.4 Test Procedure

The test procedures are performed following the test stands ANSI STANDARD C63.10-2013 and KDB 987594 D02 U-NII 6 GHz EMC Measurement v03 and KDB 789033 D02 General U-NII Test Procedures New Rules v02r01.

■ Minimum Emission Bandwidth for the band 5.925-7.125 GHz

- a) Set RBW = approximately 1% of the emission bandwidth.
- b) Set the VBW > RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

Note: The automatic bandwidth measurement capability of a spectrum analyzer or EMI receiver may be employed if it implements the functionality described above.

■ 99 Percent Occupied Bandwidth

The 99-percent occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5 % of the total mean power of the given emission. Measurement of the 99-percent occupied bandwidth is required only as a condition for using the optional band-edge measurement techniques described in section H)3)d). Measurements of 99-percent occupied bandwidth may also optionally be used in lieu of the 6-dB emission bandwidth to define the minimum frequency range over which the spectrum is integrated when measuring maximum conducted output power as described in section E). However, the 6-dB bandwidth must be measured to determine bandwidth dependent limits on maximum conducted output power in accordance with 15.407(a).

The following procedure shall be used for measuring (99 %) power bandwidth.

1. Set center frequency to the nominal EUT channel center frequency.
2. Set span = 1.5 times to 5.0 times the OBW.
3. Set RBW = 1 % to 5 % of the OBW
4. Set $VBW \geq 3 \cdot RBW$
5. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
6. Use the 99 % power bandwidth function of the instrument (if available).
7. If the instrument does not have a 99 % power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.



Registration number: W6M22409-23739-C-3
FCC ID: IR5ML15

■ Maximum conducted output power

- (i) Measure the duty cycle, x , of the transmitter output signal as described in II.B.
- (ii) Set span to encompass the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal.
- (iii) Set RBW = 1 MHz.
- (iv) Set VBW $\geq$ 3 MHz.
- (v) Number of points in sweep $\geq 2 \times \text{span} / \text{RBW}$. (This ensures that bin-to-bin spacing is $\leq \text{RBW}/2$, so that narrowband signals are not lost between frequency bins.)
- (vi) Sweep time = auto.
- (vii) Detector = power averaging (rms), if available. Otherwise, use sample detector mode.
- (viii) Do not use sweep triggering. Allow the sweep to “free run.”
- (ix) Trace average at least 100 traces in power averaging (rms) mode; however, the number of traces to be averaged shall be increased above 100 as needed to ensure that the average accurately represents the true average over the on and off periods of the transmitter.
- (x) Compute power by integrating the spectrum across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal using the instrument’s band power measurement function with band limits set equal to the EBW (or occupied bandwidth) band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at 1 MHz intervals extending across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal.
- (xi) Add $10 \log (1/x)$, where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times (because the measurement represents an average over both the on and off times of the transmission). For example, add $10 \log (1/0.25) = 6 \text{ dB}$ if the duty cycle is 25%.

■ Power Density

The rules requires “maximum power spectral density” measurements where the intent is to measure the maximum value of the time average of the power spectral density measured during a period of continuous transmission.

1. Create an average power spectrum for the EUT operating mode being tested by following the instructions in section II.E.2. for measuring maximum conducted output power using a spectrum analyzer or EMI receiver: select the appropriate test method (SA-1, SA-2, SA-3, or alternatives to each) and apply it up to, but not including, the step labeled, “Compute power...”. (This procedure is required even if the maximum conducted output power measurement was performed using a power meter, method PM.)
2. Use the peak search function on the instrument to find the peak of the spectrum and record its value.
3. Make the following adjustments to the peak value of the spectrum, if applicable:
 - a) If Method SA-2 or SA-2 Alternative was used, add $10 \log (1/x)$, where x is the duty cycle, to the peak of the spectrum.
 - b) If Method SA-3 Alternative was used and the linear mode was used in step II.E.2.g)(viii), add 1 dB to the final result to compensate for the difference between linear averaging and power



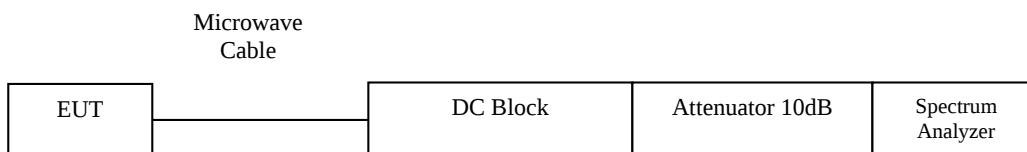
Registration number: W6M22409-23739-C-3
FCC ID: IR5ML15

averaging.

4. The result is the Maximum PSD over 1 MHz reference bandwidth.
5. For devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz, the above procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in § 15.407(a)(5). For devices operating in the band 5.725-5.85 GHz, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of a RBWs less than 1 MHz, or 500 kHz, “provided that the measured power is integrated over the full reference bandwidth” to show the total power over the specified measurement bandwidth (i.e., 1 MHz, or 500 kHz). If measurements are performed using a reduced resolution bandwidth (< 1 MHz, or < 500 kHz) and integrated over 1 MHz, or 500 KHz bandwidth, the following adjustments to the procedures apply:
 - a) Set $RBW \geq 1/T$, where T is defined in section II.B.1.a).
 - b) Set $VBW \geq 3 RBW$.
 - c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add $10\log(500\text{kHz}/RBW)$ to the measured result, whereas $RBW (< 500 \text{ kHz})$ is the reduced resolution bandwidth of the spectrum analyzer set during measurement.
 - d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add $10\log(1\text{MHz}/RBW)$ to the measured result, whereas $RBW (< 1 \text{ MHz})$ is the reduced resolution bandwidth of spectrum analyzer set during measurement.
 - e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

Note: As a practical matter, it is recommended to use reduced RBW of 100 kHz for the sections 5.c) and 5.d) above, since $RBW=100 \text{ kHz}$ is available on nearly all spectrum analyzers.

Conducted measurement test setup





Registration number: W6M22409-23739-C-3

FCC ID: IR5ML15

3 Test results (enclosure)

Test case	Para. Number	Required	Test passed	Test failed
Peak Transmit Power	15.407(a)	☒	☒	☐
26-dB emission bandwidth	15.407(a)	☒	☒	☐
99 % Occupied Bandwidth	789033 D02 General U-NII Test Procedures New Rules v02r01	☒	☒	☐
Peak Power Spectral Density	15.407(a)	☒	☒	☐
Undesirable emission limits	15.407(b)	☒	☒	☐
Radio Frequency Exposure	15.407(f)	☐	☐	☐
Contention-based protocol	15.407(d)	☒	☒	☐
Automated frequency coordination (AFC) system	15.407(k)	☐	☐	☐
Radiated Emission from Receiver Part	15.109	☐	☐	☐
AC Conducted Emissions	15.207	☒	☒	☐

The following is intentionally left blank.



Registration number: W6M22409-23739-C-3
FCC ID: IR5ML15

3.1 Peak Transmit Power, FCC 15.407 (a)

According to §15.407(a)

- (1) For a standard power access point and fixed client device operating in the 5.925-6.425 GHz and 6.525-6.875 GHz bands, the maximum e.i.r.p. over the frequency band of operation must not exceed 36 dBm. For outdoor devices, the maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).
- (2) For an indoor access point operating in the 5.925-7.125 GHz band, the maximum e.i.r.p. over the frequency band of operation must not exceed 30 dBm.
- (3) For a subordinate device operating under the control of an indoor access point in the 5.925-7.125 GHz band, the maximum e.i.r.p. over the frequency band of operation must not exceed 30 dBm.
- (4) For client devices, except for fixed client devices as defined in this subpart, operating under the control of a standard power access point in 5.925-6.425 GHz and 6.525-6.875 GHz bands, the maximum e.i.r.p. over the frequency band of operation must not exceed 30 dBm and the device must limit its power to no more than 6 dB below its associated standard power access point's authorized transmit power.
- (5) For client devices operating under the control of an indoor access point in the 5.925-7.125 GHz bands, the maximum e.i.r.p. over the frequency band of operation must not exceed 24 dBm.
- (6) For very low power devices operating in the 5.925-6.425 GHz and 6.525-6.875 GHz bands, the maximum e.i.r.p must not exceed 14 dBm.

Test date: November 14, 2024

Temperature: 24.9°C

Humidity: 56.1 %

Tester: Ken

Band	Mode	Channel	RU(AX)	Conducted power with DF		Combine (dBm)	DF (dB)	DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)
				Antenna 1 (dBm)	Antenna 2 (dBm)			Antenna 1	Antenna 2	Antenna 1 (dBm)	Antenna 2 (dBm)	
UNII 5	802.11a	Ch 1 : 5955 MHz	-	-0.63	0.77	-	0.92	-1.19	0.45	-1.82	1.22	24.00
		Ch 45: 6175 MHz	-	-0.85	1.38	-	0.92	-1.19	0.45	-2.04	1.83	24.00
		Ch 93 : 6415 MHz	-	-0.89	1.22	-	0.92	-1.19	0.45	-2.08	1.67	24.00
	802.11ax 20MHz	Ch 1 : 5955 MHz	26RU1	-7.81	-7.66	-4.72	1.07	2.68		-2.04		24.00
			26RU9	-8.33	-7.69	-4.99	1.07	2.68		-2.31		24.00
			242RU1	0.05	1.82	4.04	1.07	2.68		6.72		24.00
		Ch 45: 6175 MHz	26RU1	-6.64	-7.72	-4.13	1.07	2.68		-1.46		24.00
			26RU9	-6.70	-7.81	-4.21	1.07	2.68		-1.53		24.00
			242RU1	0.01	2.24	4.28	1.07	2.68		6.96		24.00
		Ch 93 : 6415 MHz	26RU1	-8.21	-6.89	-4.49	1.07	2.68		-1.81		24.00



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22409-23739-C-3
FCC ID: IR5ML15

			26RU9	-8.08	-6.89	-4.43	1.07	2.68		-1.75		24.00
			242RU1	-0.20	2.24	4.20	1.07	2.68		6.88		24.00
	802.11ax 40MHz	Ch 3 : 5965 MHz	26RU1	-7.91	-7.67	-4.78	0.99	2.68		-2.10		24.00
			26RU18	-8.85	-7.78	-5.27	0.99	2.68		-2.59		24.00
			484RU1	2.91	4.56	6.82	0.99	2.68		9.50		24.00
		Ch 43 : 6165 MHz	26RU1	-6.57	-7.65	-4.07	0.99	2.68		-1.39		24.00
			26RU18	-6.73	-7.84	-4.24	0.99	2.68		-1.56		24.00
			484RU1	2.92	4.92	7.04	0.99	2.68		9.72		24.00
		Ch 91 : 6405 MHz	26RU1	-8.41	-6.94	-4.60	0.99	2.68		-1.92		24.00
			26RU18	-8.07	-6.90	-4.44	0.99	2.68		-1.76		24.00
			484RU1	2.75	4.89	6.96	0.99	2.68		9.64		24.00
	802.11ax 80 MHz	Ch 7 : 5985 MHz	26RU1	-7.95	-7.78	-4.85	1.15	2.68		-2.17		24.00
			26RU37	-9.70	-7.81	-5.64	1.15	2.68		-2.96		24.00
			966RU1	5.71	7.20	9.53	1.15	2.68		12.21		24.00
		Ch 39 : 6145 MHz	26RU1	-6.81	-7.76	-4.25	1.15	2.68		-1.57		24.00
			26RU37	-6.84	-7.95	-4.35	1.15	2.68		-1.67		24.00
			966RU1	5.81	7.46	9.73	1.15	2.68		12.40		24.00
		Ch 87 : 6385 MHz	26RU1	-9.16	-7.20	-5.06	1.15	2.68		-2.38		24.00
			26RU37	-8.15	-6.96	-4.50	1.15	2.68		-1.82		24.00
			966RU1	7.39	7.29	10.35	1.15	2.68		13.03		24.00
	802.11 ax 160 MHz	Ch 15 : 6025 MHz	26RU1	-8.28	-9.10	-5.66	1.05	2.68		-2.98		24.00
			26RU74	-7.66	-9.51	-5.48	1.05	2.68		-2.80		24.00
			2x966RU 1	9.58	9.89	12.75	1.05	2.68		15.43		24.00
		Ch 47 : 6185 MHz	26RU1	-8.16	-9.11	-5.60	1.05	2.68		-2.92		24.00
			26RU74	-8.83	-9.40	-6.10	1.05	2.68		-3.42		24.00
			2x966RU 1	9.55	10.02	12.80	1.05	2.68		15.48		24.00
		Ch 79 : 6345 MHz	26RU1	-7.75	-8.93	-5.29	1.05	2.68		-2.61		24.00
			26RU74	-9.32	-8.33	-5.79	1.05	2.68		-3.11		24.00
			2x966RU 1	9.78	9.75	12.78	1.05	2.68		15.45		24.00
	UNII 6	802.11a	Ch 97 : 6435 MHz	-	1.45	1.45	-	0.92	-3.20	-0.01	-1.75	1.44
Ch 105 : 6475 MHz			-	1.32	1.29	-	0.92	-3.20	-0.01	-1.88	1.28	24.00
Ch 113 : 6515 MHz			-	1.34	1.48	-	0.92	-3.20	-0.01	-1.86	1.47	24.00
802.11ax 20 MHz		Ch 97 : 6435 MHz	26RU1	-7.50	-7.67	-4.57	1.07	1.55		-3.02		24.00
			26RU9	-7.65	-7.66	-4.64	1.07	1.55		-3.09		24.00
			242RU1	2.25	2.42	5.35	1.07	1.55		6.90		24.00
		Ch 105 : 6475 MHz	26RU1	-8.03	-7.72	-4.86	1.07	1.55		-3.31		24.00
			26RU9	-7.95	-7.76	-4.84	1.07	1.55		-3.29		24.00
			242RU1	2.15	2.23	5.20	1.07	1.55		6.75		24.00



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22409-23739-C-3
FCC ID: IR5ML15

		Ch 113 : 6515 MHz	26RU1	-7.99	-7.83	-4.90	1.07	1.55		-3.35		24.00
			26RU9	-8.02	-7.88	-4.94	1.07	1.55		-3.39		24.00
			242RU1	2.24	2.42	5.34	1.07	1.55		6.89		24.00
	802.11ax 40MHz	Ch 99 : 6445 MHz	26RU1	-7.53	-7.81	-4.66	0.99	1.55		-3.11		24.00
			26RU18	-7.90	-7.87	-4.87	0.99	1.55		-3.32		24.00
			484RU1	5.03	4.82	7.94	0.99	1.55		9.49		24.00
		Ch 107 : 6485 MHz	26RU1	-7.93	-7.85	-4.88	0.99	1.55		-3.33		24.00
			26RU18	-7.98	-7.93	-4.94	0.99	1.55		-3.39		24.00
			484RU1	4.92	4.75	7.85	0.99	1.55		9.40		24.00
	802.11ax 80 MHz	Ch 103 : 6465 MHz	26RU1	-7.56	-7.82	-4.67	1.15	1.55		-3.12		24.00
			26RU37	-8.00	-7.97	-4.97	1.15	1.55		-3.42		24.00
			966RU1	7.45	7.35	10.41	1.15	1.55		11.96		24.00
UNII 6-7	802.11ax 40 MHz	Ch 115 : 6525 MHz	26RU1	-7.21	-7.93	-4.54	0.99	2.74		-1.81		24.00
			26RU18	-7.44	-8.20	-4.79	0.99	2.74		-2.05		24.00
			484RU1	4.89	4.80	7.86	0.99	2.74		10.59		24.00
	802.11ax 80 MHz	Ch 119 : 6545 MHz	26RU1	-7.30	-7.96	-4.60	1.15	2.74		-1.87		24.00
			26RU37	-7.65	-9.01	-5.26	1.15	2.74		-2.52		24.00
			966RU1	7.48	7.31	10.41	1.15	2.74		13.15		24.00
	802.11ax 160 MHz	Ch 111 : 6505 MHz	26RU1	-8.57	-9.15	-5.84	1.05	2.74		-3.10		24.00
			26RU74	-8.98	-10.32	-6.59	1.05	2.74		-3.85		24.00
			2X966R U1	10.06	9.90	12.99	1.05	2.74		15.73		24.00
UNII 7	802.11a	Ch 117 : 6535 MHz	-	0.15	0.46	-	0.92	-0.54	-0.12	-0.39	0.34	24.00
		Ch 149 : 6695 MHz	-	0.19	0.26	-	0.92	-0.54	-0.12	-0.35	0.14	24.00
		Ch 181 : 6855 MHz	-	0.20	0.34	-	0.92	-0.54	-0.12	-0.34	0.22	24.00
	802.11ax 20 MHz	Ch 117 : 6535 MHz	26RU1	-8.29	-8.75	-5.50	1.07	2.68		-2.82		24.00
			26RU9	-8.33	-8.91	-5.60	1.07	2.68		-2.92		24.00
			242RU1	1.14	1.39	4.28	1.07	2.68		6.96		24.00
		Ch 149 : 6695 MHz	26RU1	-8.04	-10.12	-5.94	1.07	2.68		-3.26		24.00
			26RU9	-7.99	-10.21	-5.95	1.07	2.68		-3.26		24.00
			242RU1	1.12	1.19	4.17	1.07	2.68		6.85		24.00
		Ch 181 : 6855 MHz	26RU1	-7.69	-9.44	-5.47	1.07	2.68		-2.78		24.00
			26RU9	-7.84	-9.55	-5.60	1.07	2.68		-2.92		24.00
			242RU1	1.16	1.36	4.27	1.07	2.68		6.96		24.00
	802.11ax 40 MHz	Ch 123 : 6565 MHz	26RU1	-8.31	-8.98	-5.62	0.99	2.68		-2.94		24.00
			26RU18	-8.46	-9.69	-6.02	0.99	2.68		-3.34		24.00
			484RU1	4.01	3.92	6.98	0.99	2.68		9.66		24.00
		Ch 147 : 6685 MHz	26RU1	-8.18	-9.74	-5.88	0.99	2.68		-3.20		24.00
			26RU18	-8.04	-10.25	-6.00	0.99	2.68		-3.31		24.00



Registration number: W6M22409-23739-C-3
FCC ID: IR5ML15

		Ch 179 : 6845 MHz	484RU1	3.96	3.91	6.95	0.99	2.68		9.63		24.00
			26RU1	-7.55	-9.38	-5.36	0.99	2.68		-2.68		24.00
			26RU18	-7.90	-9.69	-5.69	0.99	2.68		-3.01		24.00
			484RU1	3.85	4.00	6.94	0.99	2.68		9.62		24.00
	802.11ax 80 MHz	Ch 135 : 6625 MHz	26RU1	-8.47	-8.87	-5.65	1.15	2.68		-2.97		24.00
			26RU37	-8.24	-9.63	-5.87	1.15	2.68		-3.18		24.00
			966RU1	6.54	6.42	9.49	1.15	2.68		12.18		24.00
		Ch 151 : 6705 MHz	26RU1	-8.20	-9.76	-5.90	1.15	2.68		-3.21		24.00
			26RU37	-8.12	-10.55	-6.15	1.15	2.68		-3.47		24.00
			966RU1	6.58	6.48	9.54	1.15	2.68		12.23		24.00
		Ch 167 : 6785 MHz	26RU1	-7.07	-8.63	-4.77	1.15	2.68		-2.08		24.00
			26RU37	-7.55	-9.34	-5.34	1.15	2.68		-2.66		24.00
			966RU1	6.48	6.68	9.59	1.15	2.68		12.28		24.00
	802.11ax 160MHz	Ch 143 : 6665 MHz	26RU1	-9.62	-10.22	-6.90	1.05	2.68		-4.22		24.00
			26RU74	-9.31	-11.89	-7.40	1.05	2.68		-4.72		24.00
			2X966R U1	9.18	9.11	12.16	1.05	2.68		14.84		24.00
UNII 7-8	802.11a	Ch 185 : 6875 MHz	-	0.50	0.42	-	0.92	-0.54	1.33	-0.04	1.75	24.00
	802.11ax 20 MHz	Ch 185 : 6875 MHz	26RU1	-8.38	-9.63	-5.95	1.07	3.46		-2.49		24.00
			26RU9	-8.59	-9.71	-6.10	1.07	3.46		-2.65		24.00
			242RU1	1.42	1.32	4.38	1.07	3.46		7.84		24.00
	802.11ax 40 MHz	Ch 187 : 6885 MHz	26RU1	-8.51	-9.63	-6.02	0.99	3.46		-2.57		24.00
			26RU18	-8.90	-9.79	-6.31	0.99	3.46		-2.86		24.00
			484RU1	4.10	3.86	6.99	0.99	3.46		10.45		24.00
	802.11ax 80 MHz	Ch 183 : 6865 MHz	26RU1	-7.91	-9.58	-5.65	1.15	3.46		-2.20		24.00
			26RU37	-8.89	-9.79	-6.30	1.15	3.46		-2.85		24.00
			966RU1	6.88	6.59	9.75	1.15	3.46		13.21		24.00
	802.11ax 160MHz	Ch 175 : 6825 MHz	26RU1	-8.79	-9.93	-6.31	1.05	3.46		-2.86		24.00
			26RU74	-10.25	-11.45	-7.80	1.05	3.46		-4.34		24.00
			2X966R U1	9.15	9.24	12.21	1.05	3.46		15.66		24.00
UNII 8	802.11a	Ch 189 : 6895 MHz	-	0.37	0.20	-	0.92	-0.54	1.33	-0.17	1.53	24.00
		Ch 209 : 6995 MHz	-	0.29	0.72	-	0.92	-0.54	1.33	-0.25	2.05	24.00
		Ch 229 : 7095 MHz	-	0.34	0.81	-	0.92	-0.54	1.33	-0.20	2.14	24.00
	802.11ax 20 MHz	Ch 189 : 6895 MHz	26RU1	-8.61	-9.71	-6.11	1.07	3.46		-2.66		24.00
			26RU9	-8.84	-9.75	-6.26	1.07	3.46		-2.80		24.00
			242RU1	1.22	1.09	4.17	1.07	3.46		7.62		24.00
		Ch 209 : 6995 MHz	26RU1	-8.44	-8.14	-5.28	1.07	3.46		-1.82		24.00
			26RU9	-8.64	-8.12	-5.36	1.07	3.46		-1.90		24.00
			242RU1	1.19	1.63	4.43	1.07	3.46		7.88		24.00



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22409-23739-C-3

FCC ID: IR5ML15

		Ch 229 : 7095 MHz	26RU1	-9.19	-7.02	-4.96	1.07	3.46	-1.50	24.00
			26RU9	-9.38	-7.09	-5.07	1.07	3.46	-1.62	24.00
			242RU1	1.17	1.63	4.42	1.07	3.46	7.87	24.00
	802.11ax 40 MHz	Ch 195 : 6925 MHz	26RU1	-7.48	-8.35	-4.88	0.99	3.46	-1.43	24.00
			26RU18	-7.91	-8.28	-5.08	0.99	3.46	-1.63	24.00
			484RU1	3.92	3.87	6.91	0.99	3.46	10.36	24.00
		Ch 211 : 7005 MHz	26RU1	-8.48	-8.14	-5.30	0.99	3.46	-1.84	24.00
			26RU18	-8.96	-8.31	-5.61	0.99	3.46	-2.16	24.00
			484RU1	4.01	4.35	7.19	0.99	3.46	10.65	24.00
		Ch 227 : 7085 MHz	26RU1	-8.96	-6.89	-4.79	0.99	3.46	-1.34	24.00
			26RU18	-9.42	-7.09	-5.09	0.99	3.46	-1.63	24.00
			484RU1	3.90	4.62	7.29	0.99	3.46	10.74	24.00
	802.11ax 80 MHz	Ch 199 : 6945 MHz	26RU1	-7.52	-8.36	-4.91	1.15	3.46	-1.45	24.00
			26RU37	-8.45	-8.16	-5.29	1.15	3.46	-1.83	24.00
			966RU1	6.88	6.73	9.82	1.15	3.46	13.27	24.00
		Ch 215 : 7025 MHz	26RU1	-8.49	-8.17	-5.31	1.15	3.46	-1.86	24.00
			26RU37	-9.49	-8.10	-5.73	1.15	3.46	-2.27	24.00
			966RU1	6.59	7.11	9.87	1.15	3.46	13.33	24.00
	802.11 ax 160 MHz	Ch 207 : 6985 MHz	26RU1	-8.97	-9.71	-6.31	1.05	3.46	-2.86	24.00
			26RU74	-10.87	-9.43	-7.08	1.05	3.46	-3.62	24.00
			2X966R U1	9.39	9.57	12.49	1.05	3.46	15.95	24.00



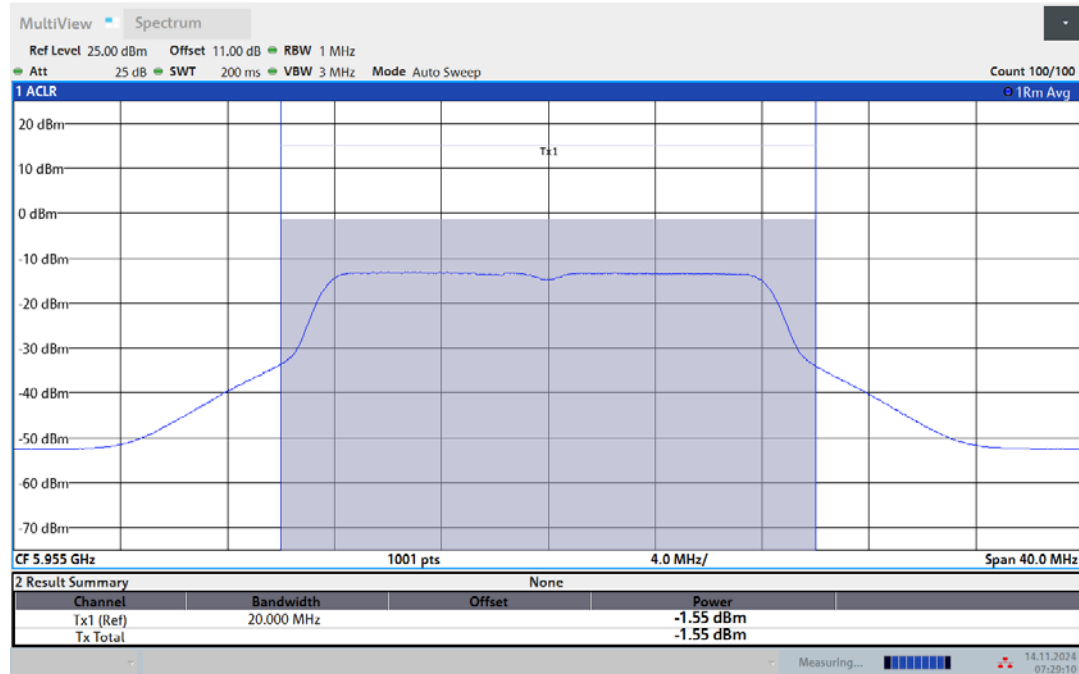
Registration number: W6M22409-23739-C-3

FCC ID: IR5ML15

MAIN antenna

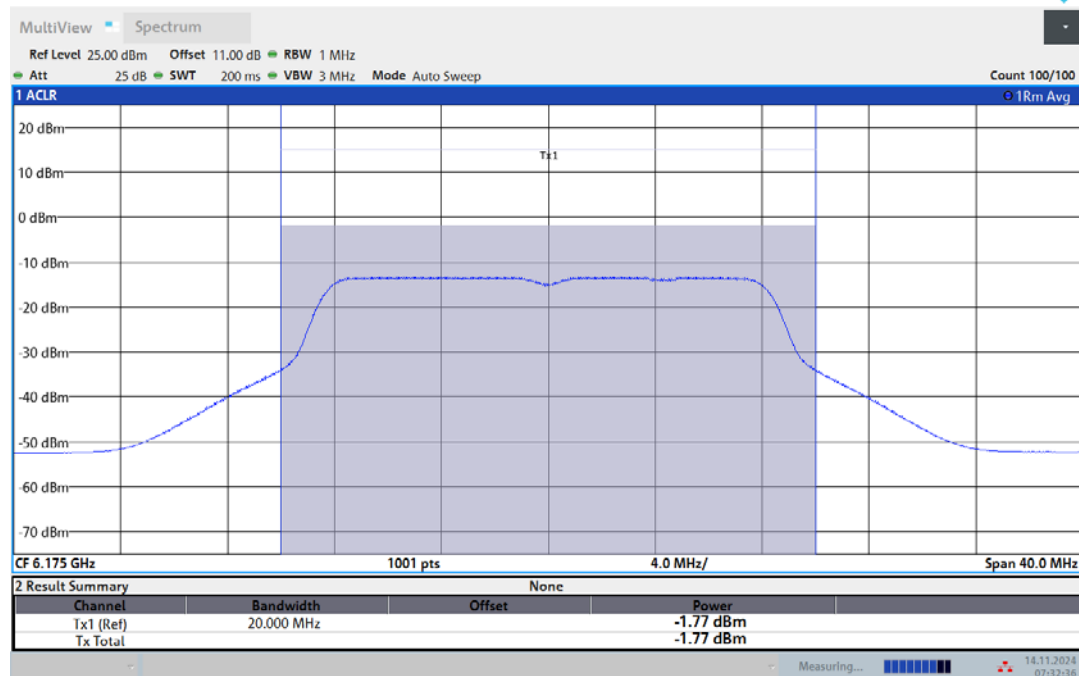
U-NII 5

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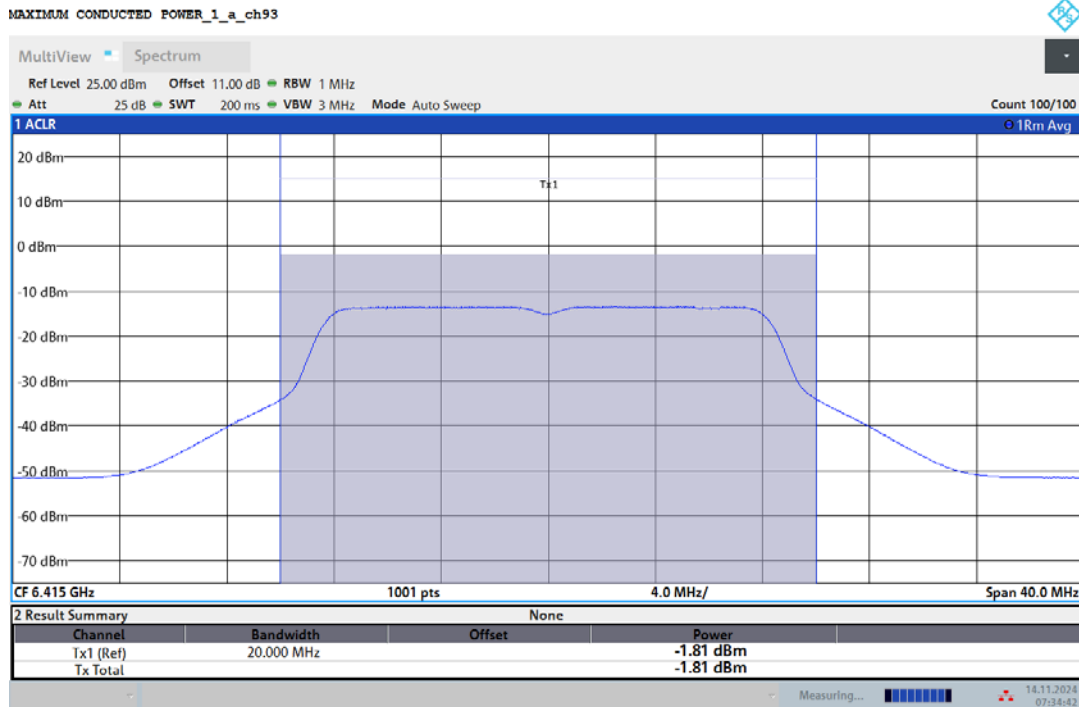
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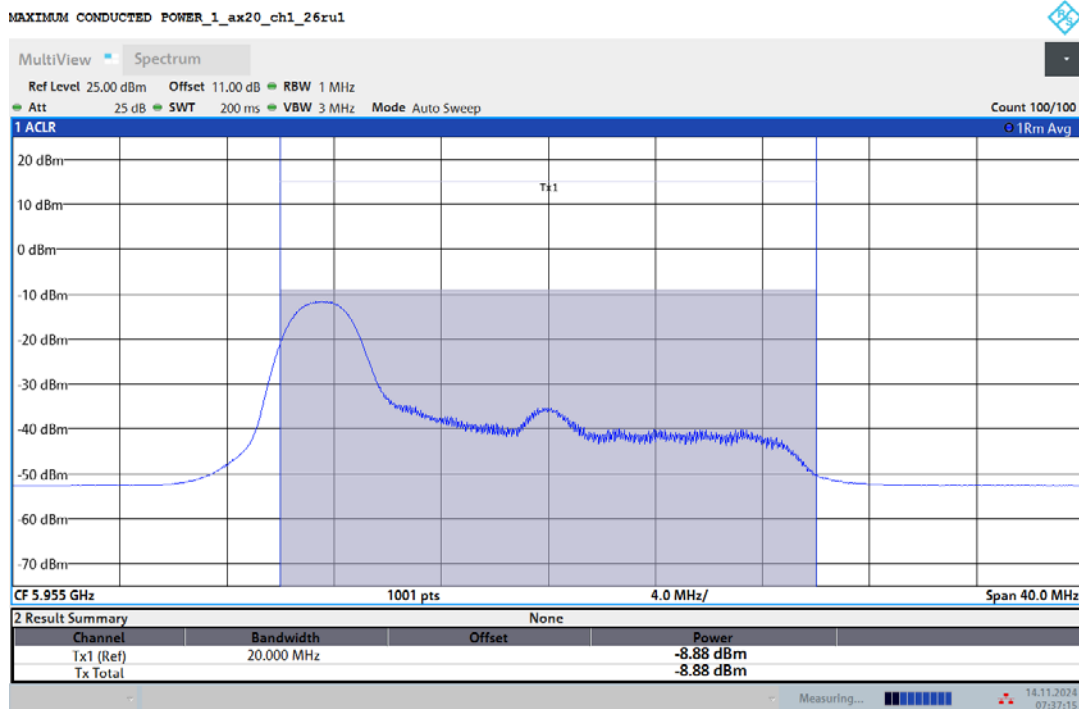
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Registration number: W6M22409-23739-C-3
FCC ID: IR5ML15



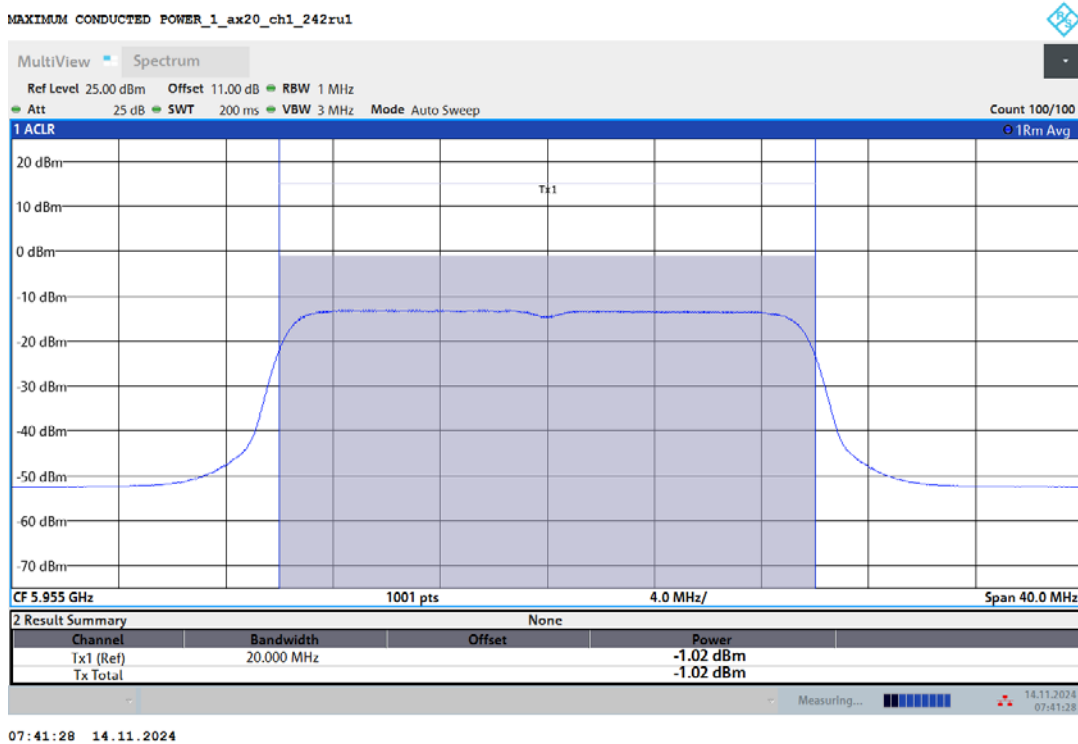
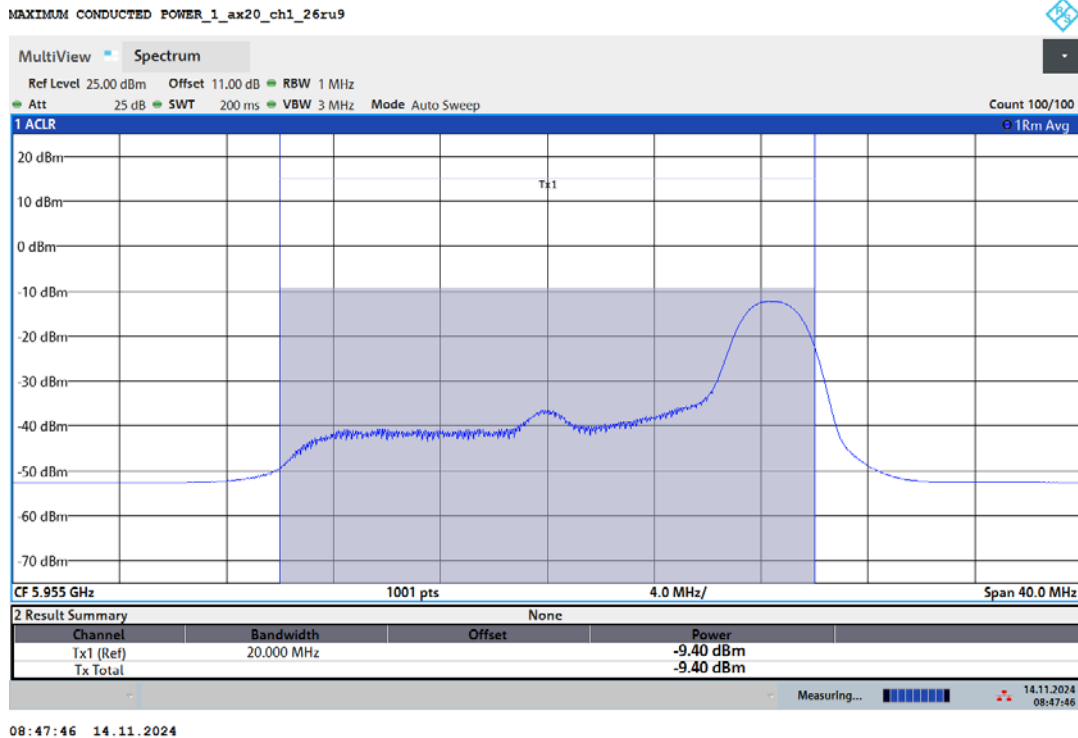
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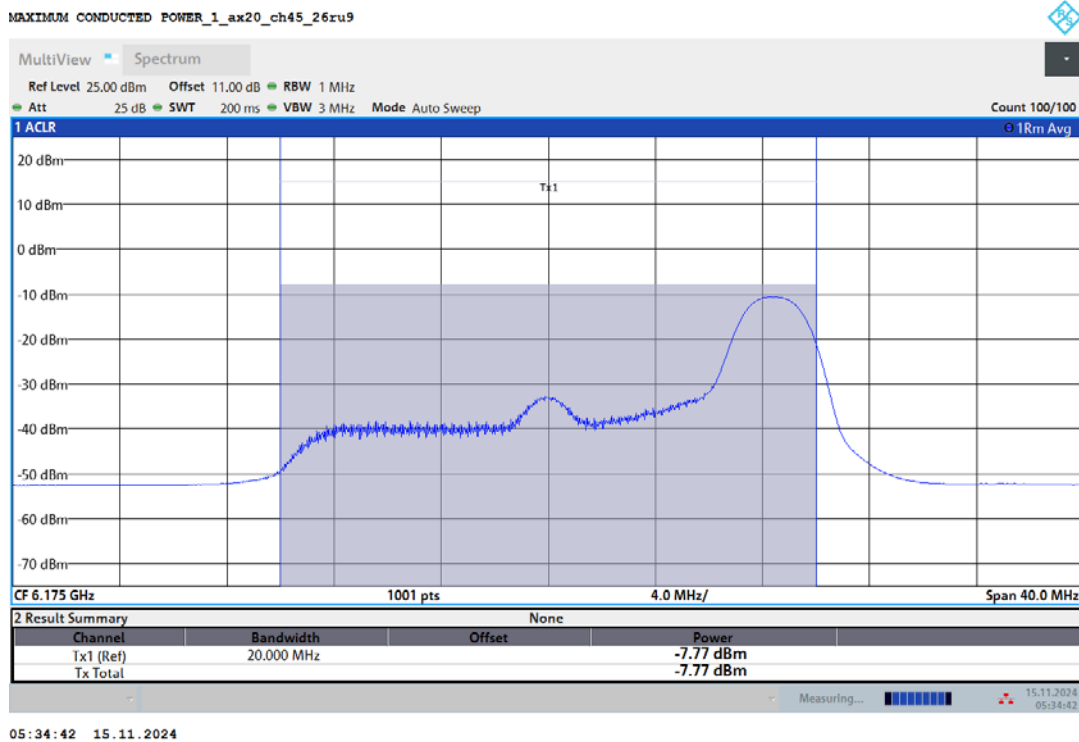
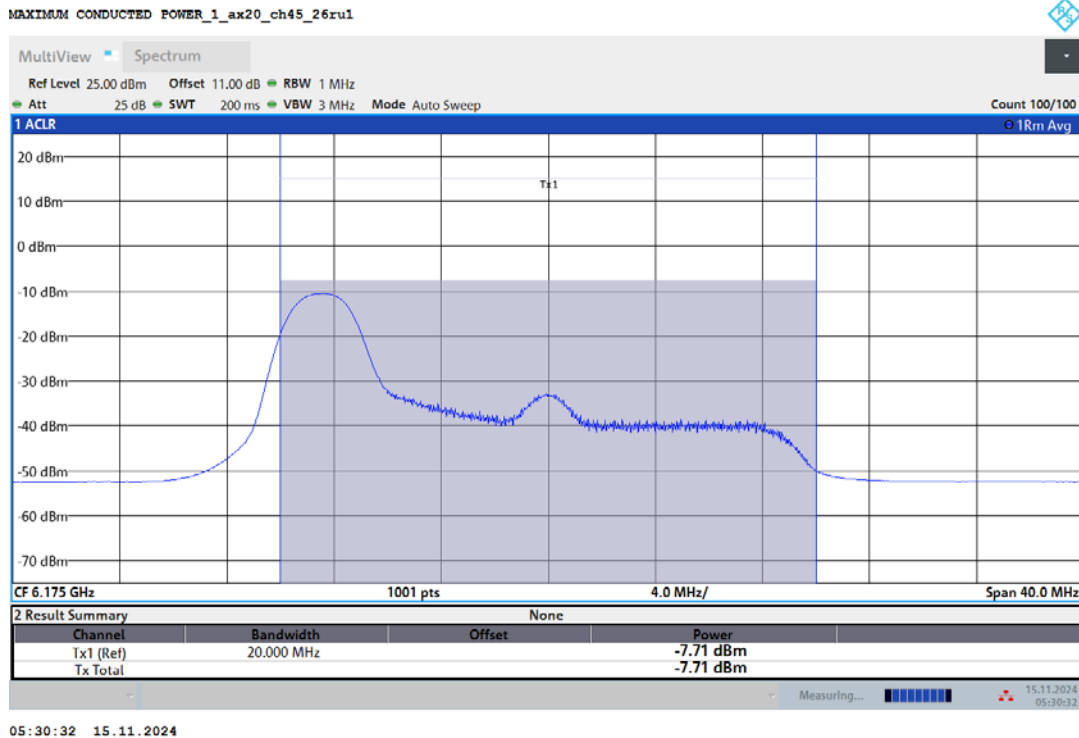


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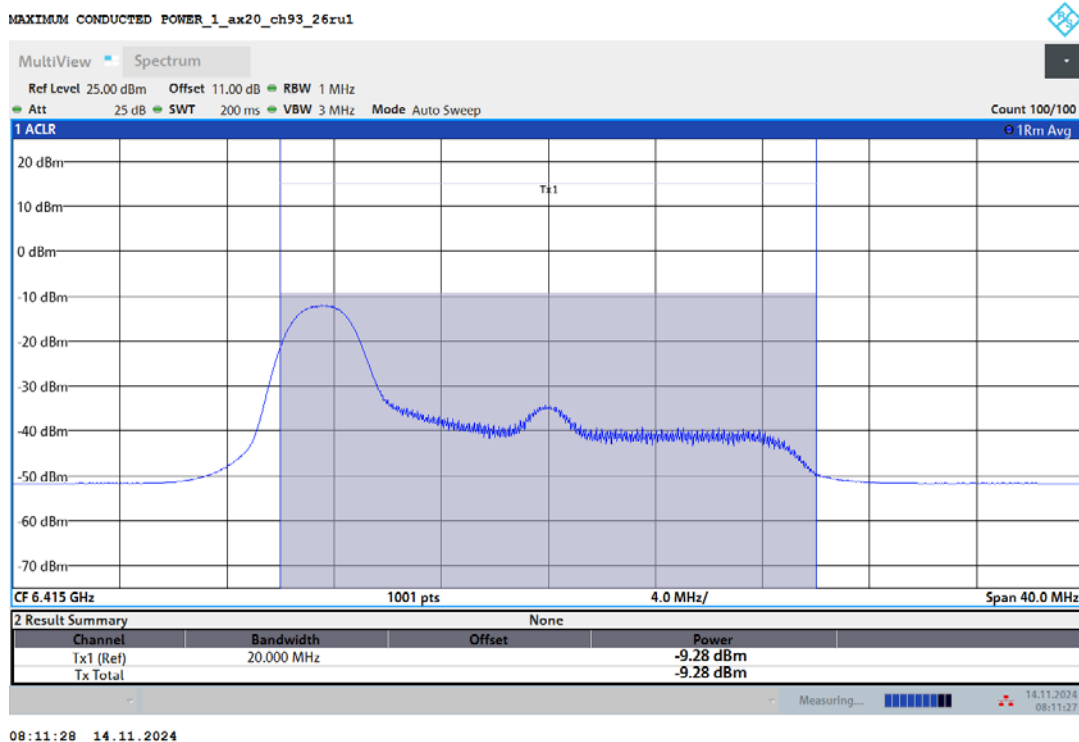
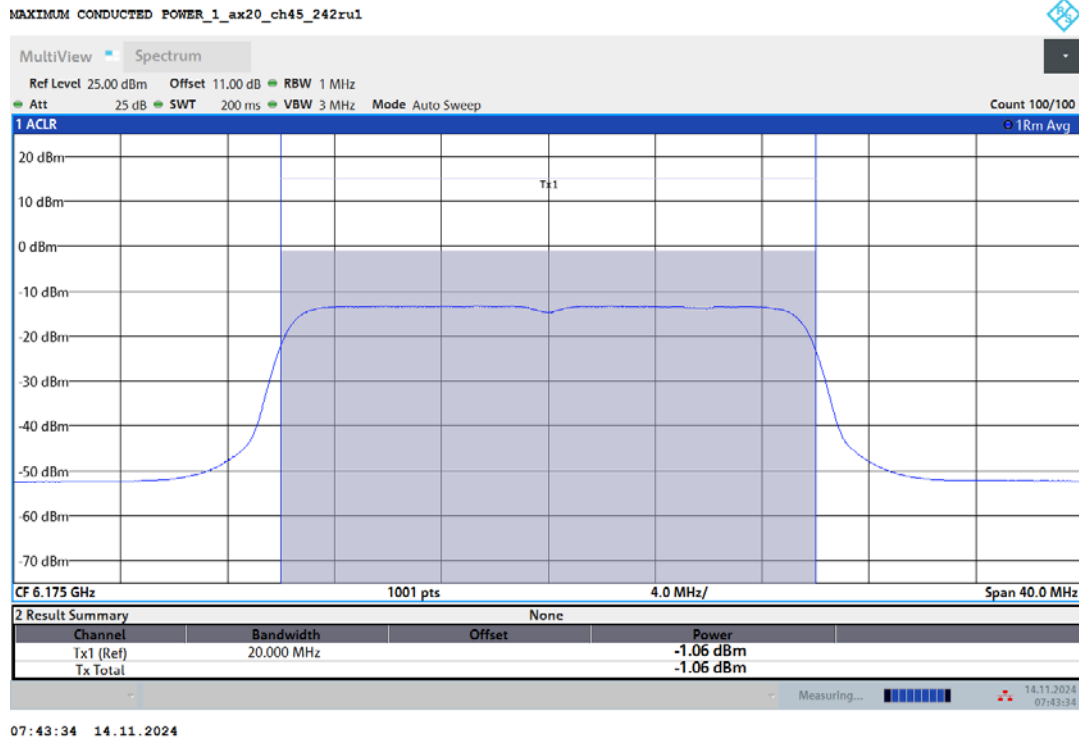
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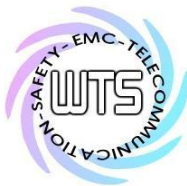




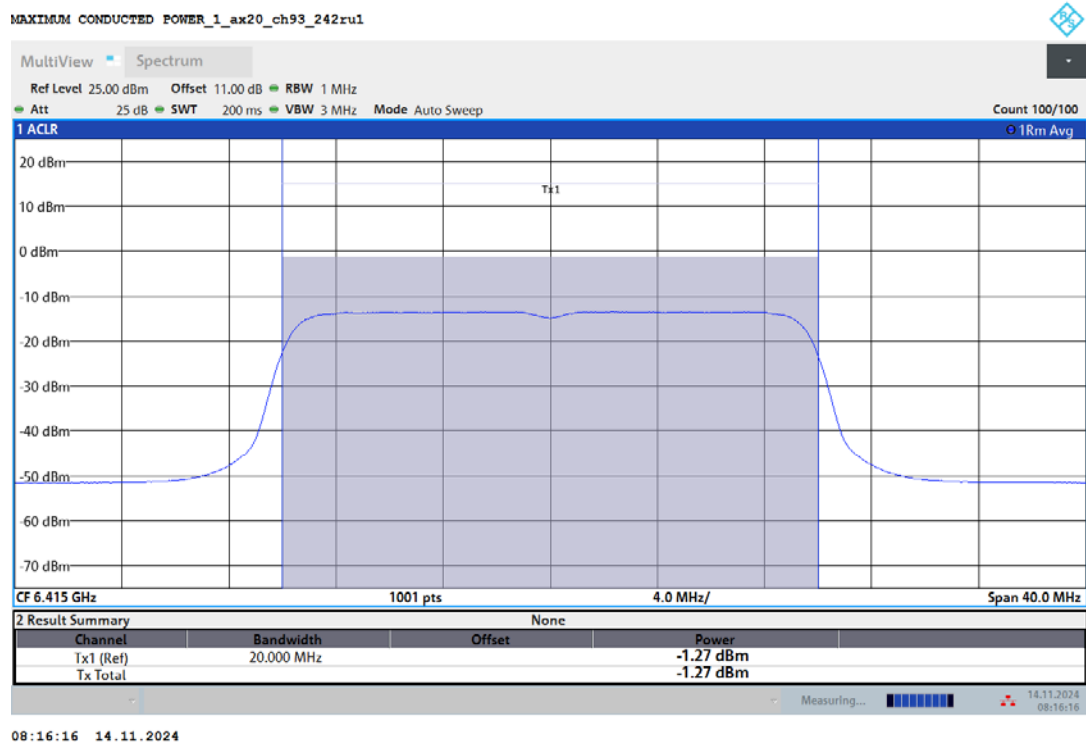
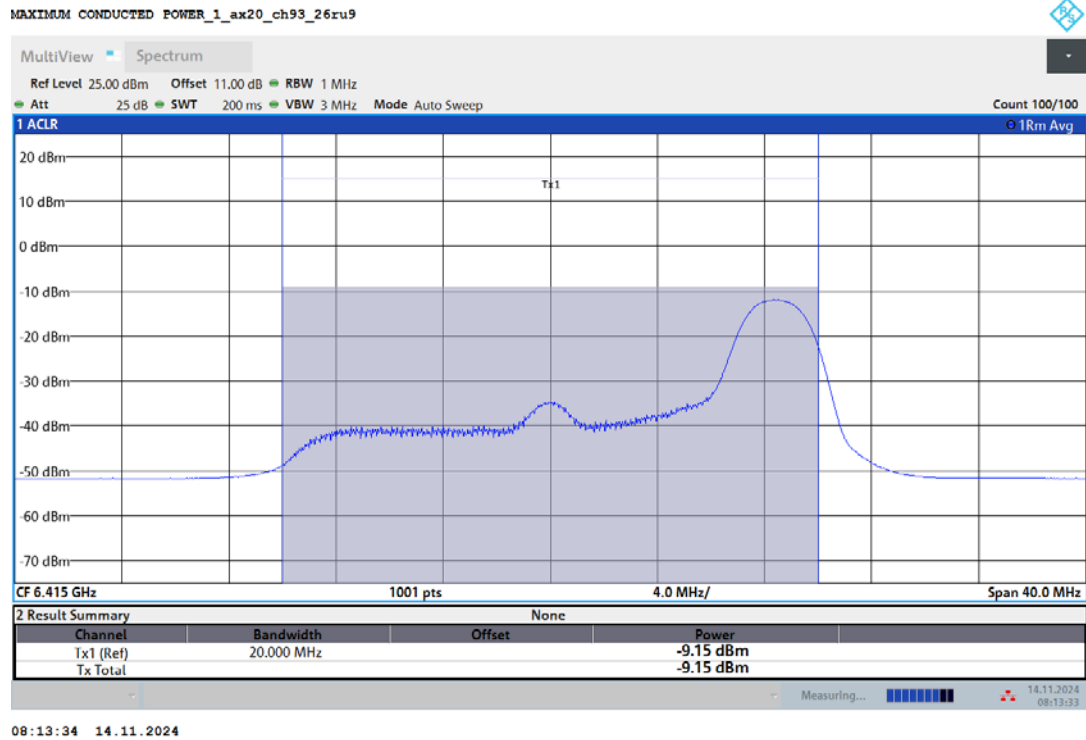
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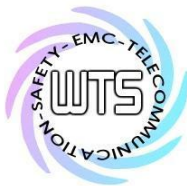
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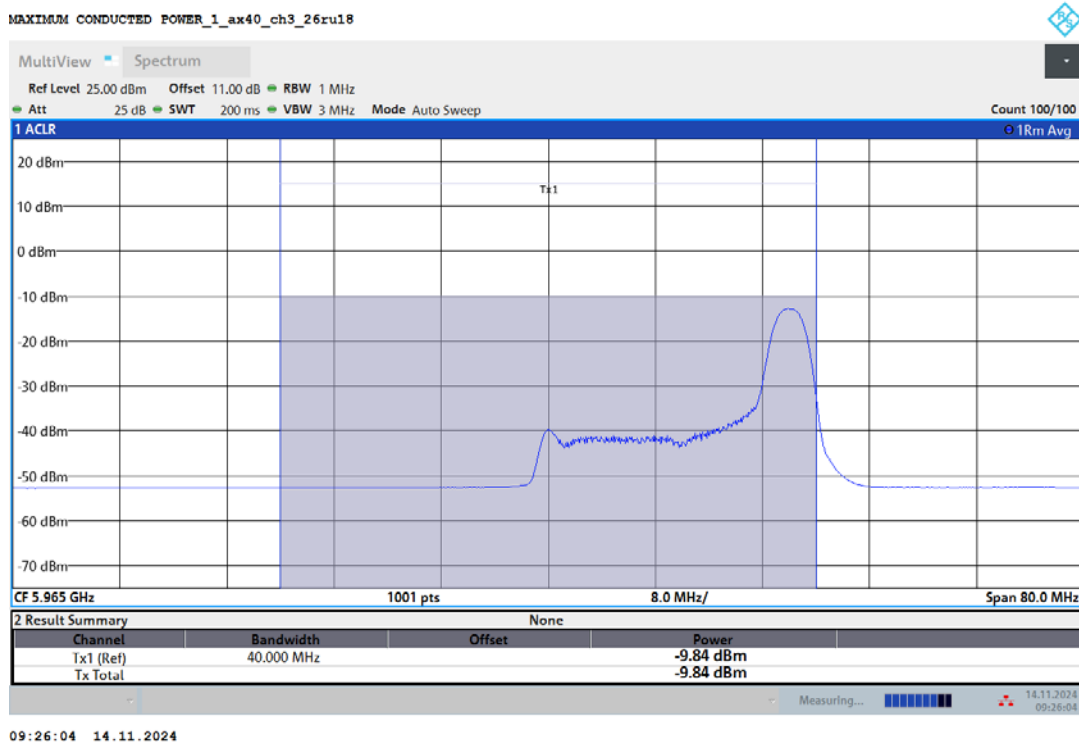
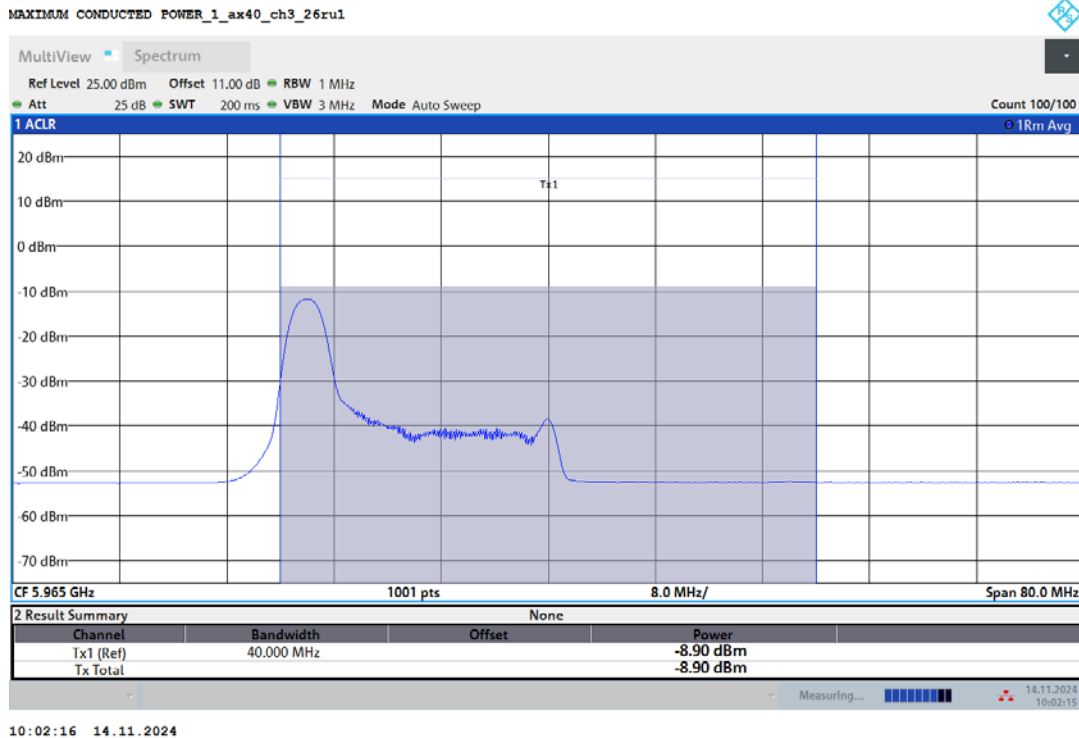


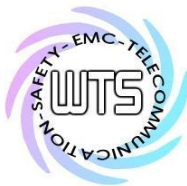
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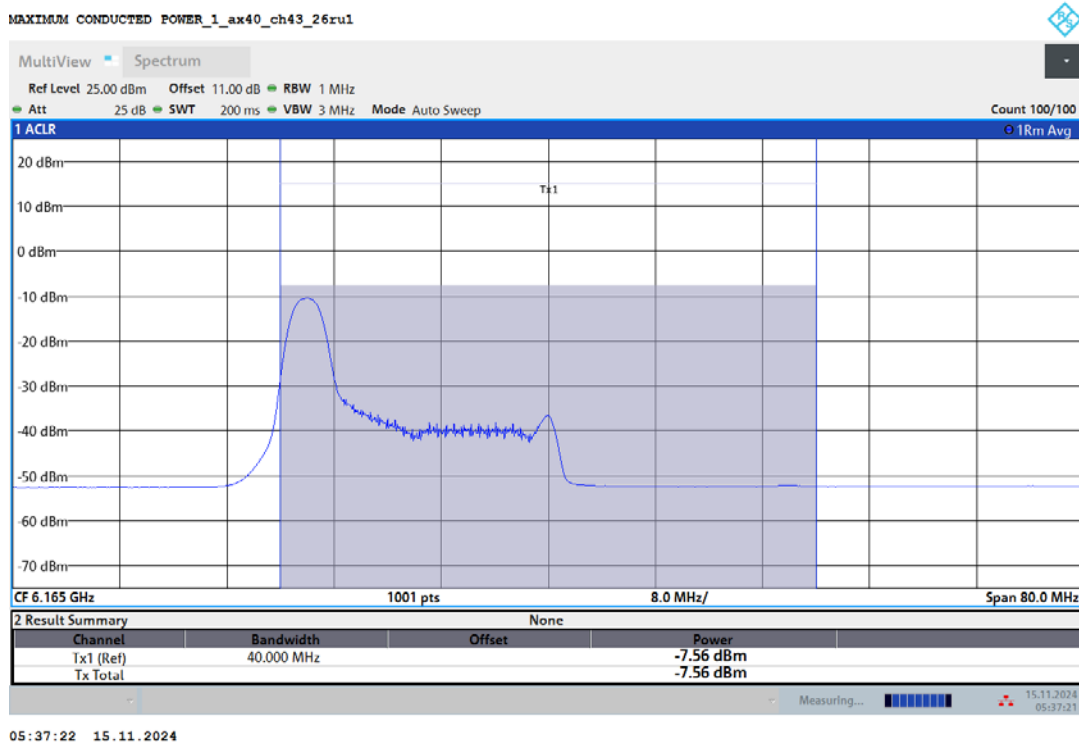
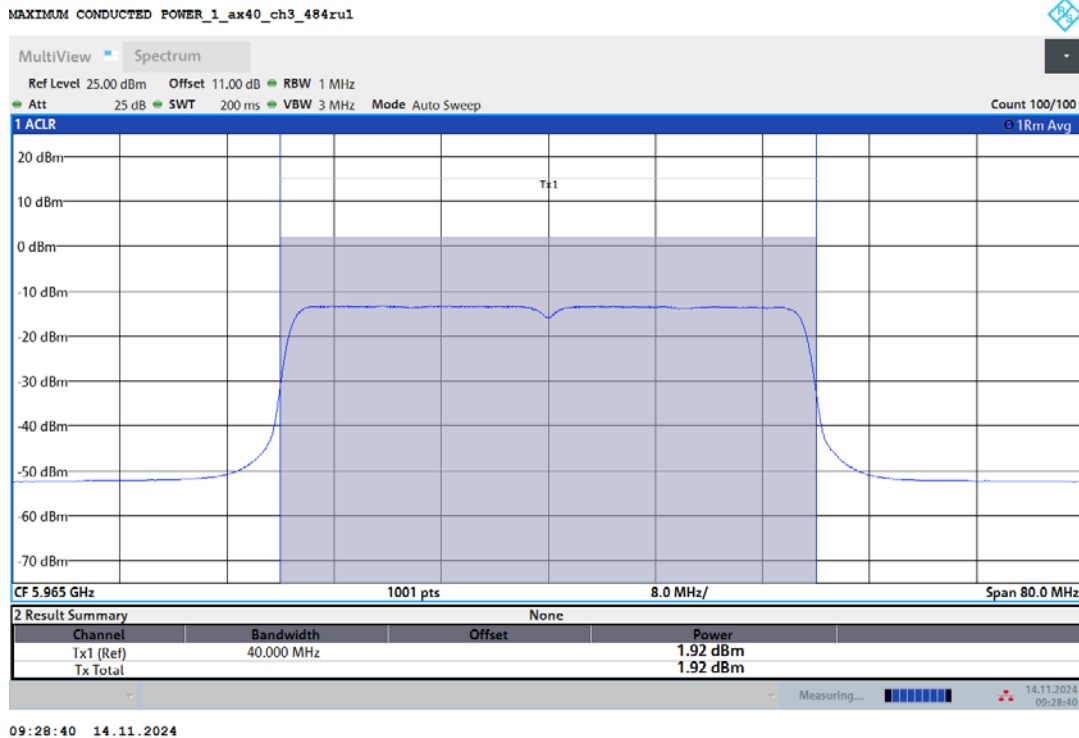


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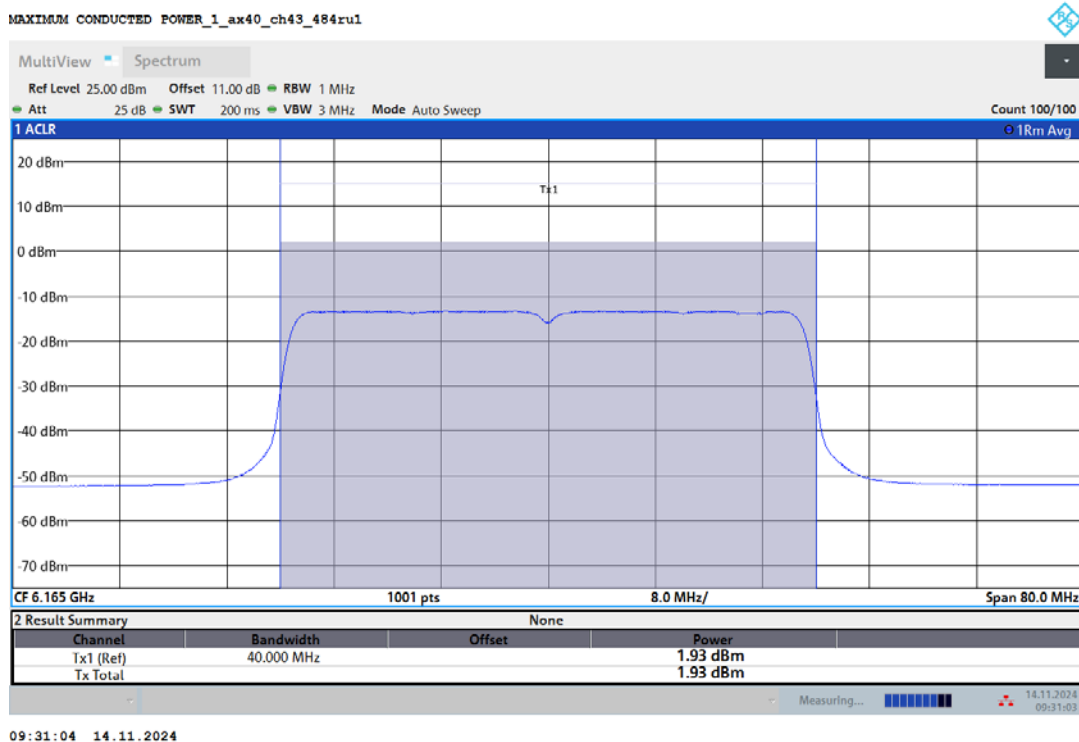
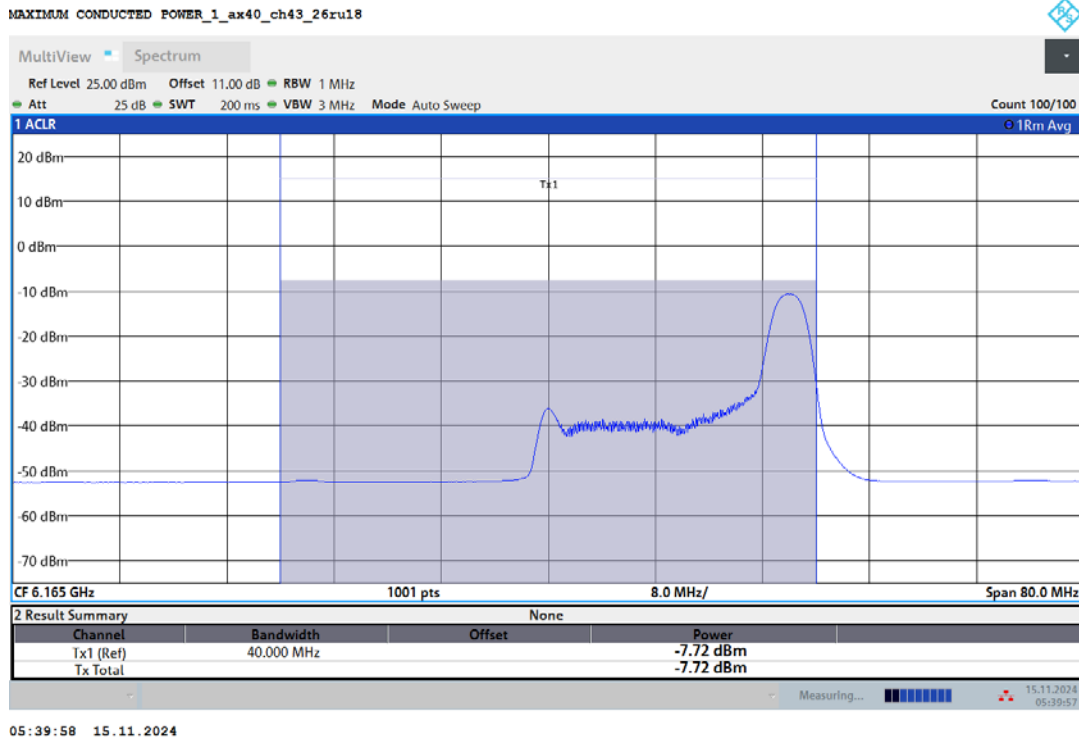


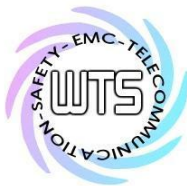
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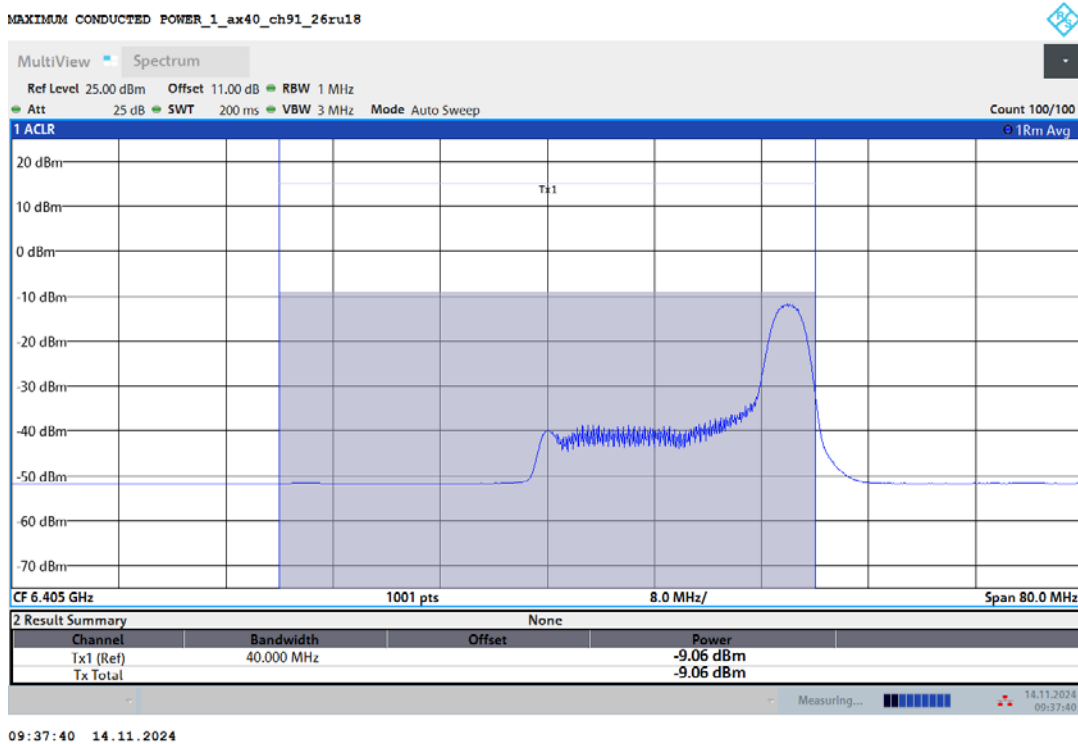
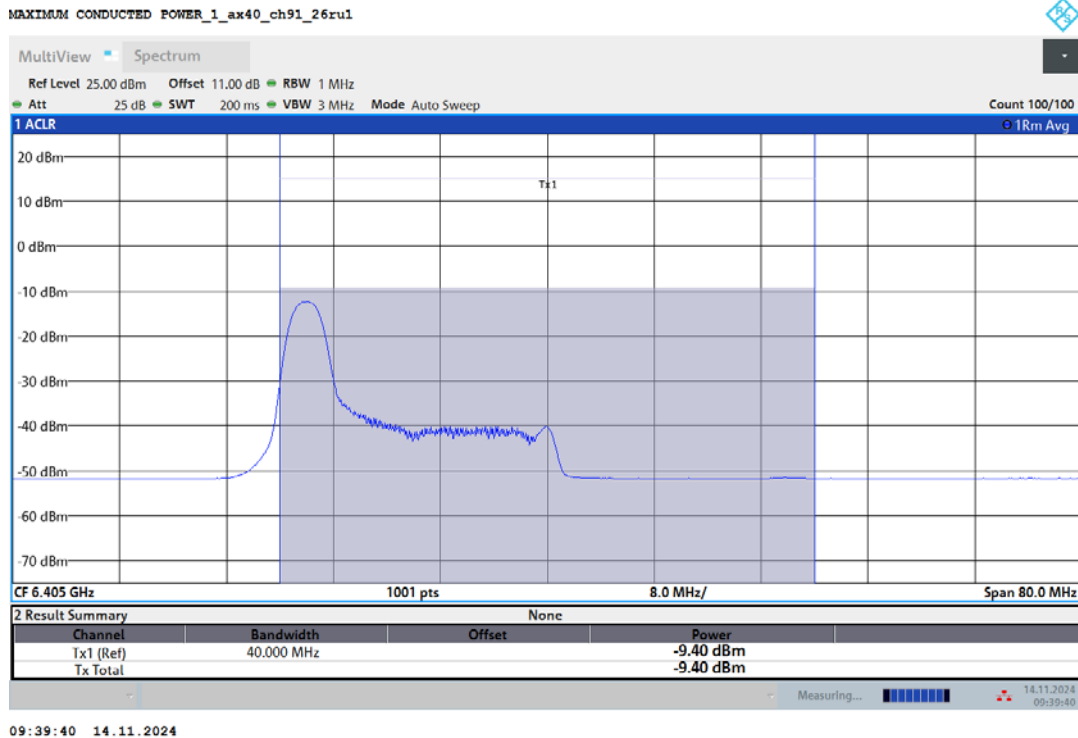


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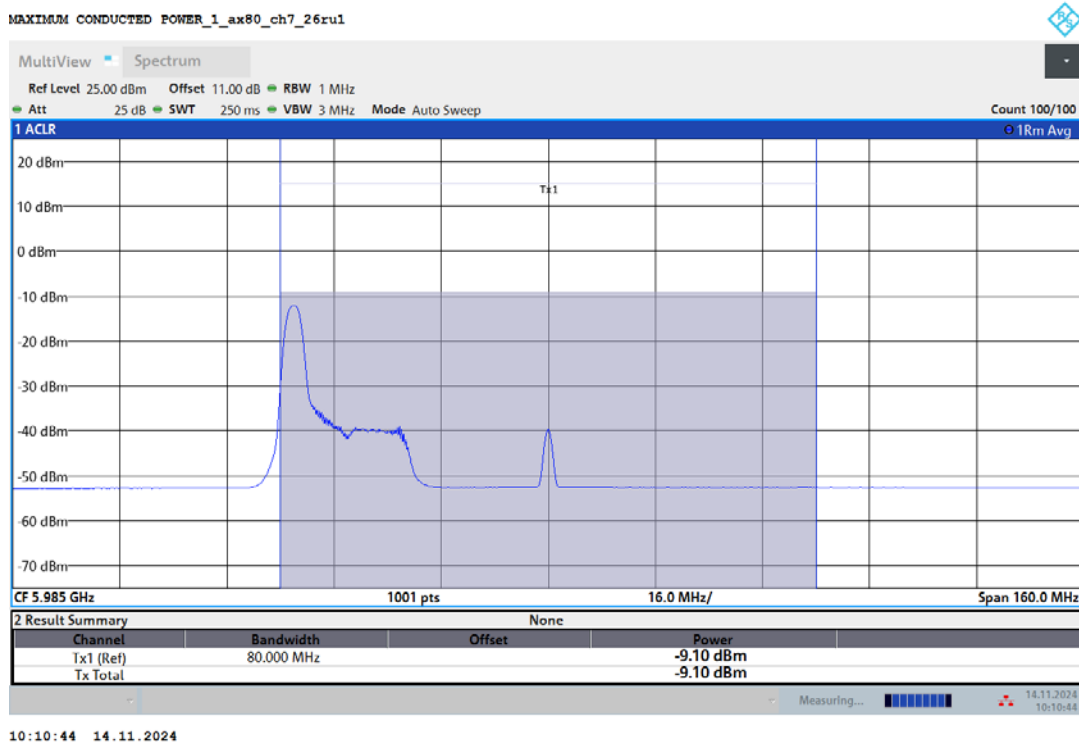
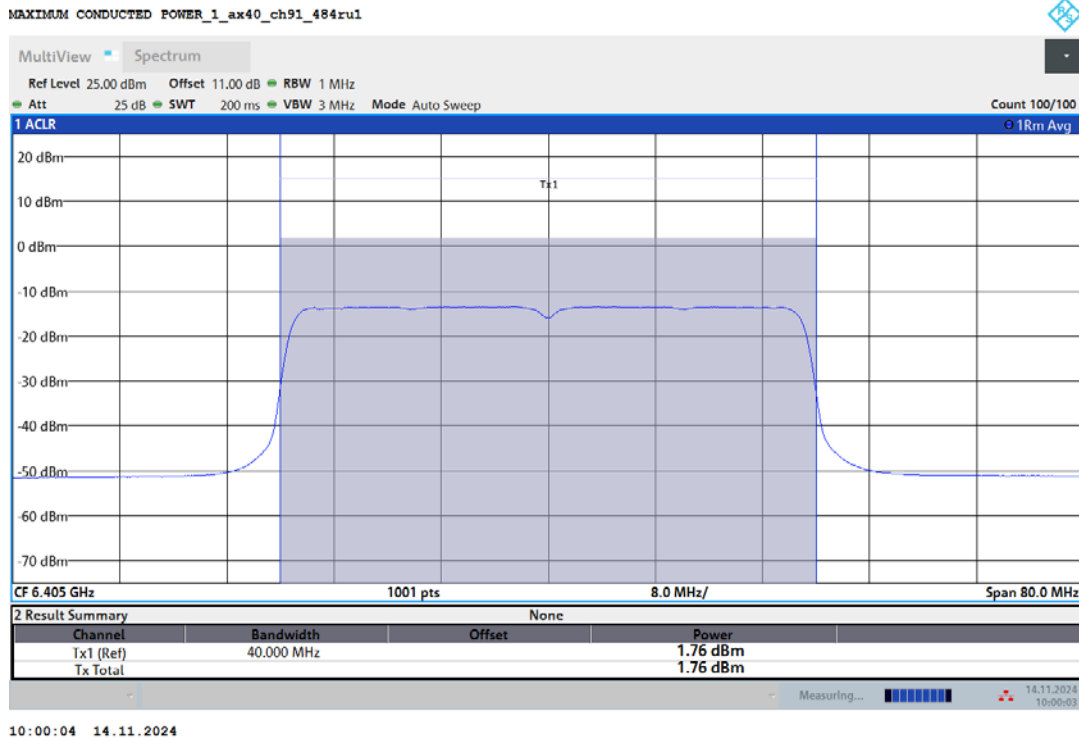
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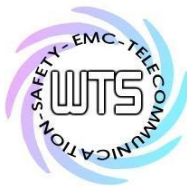




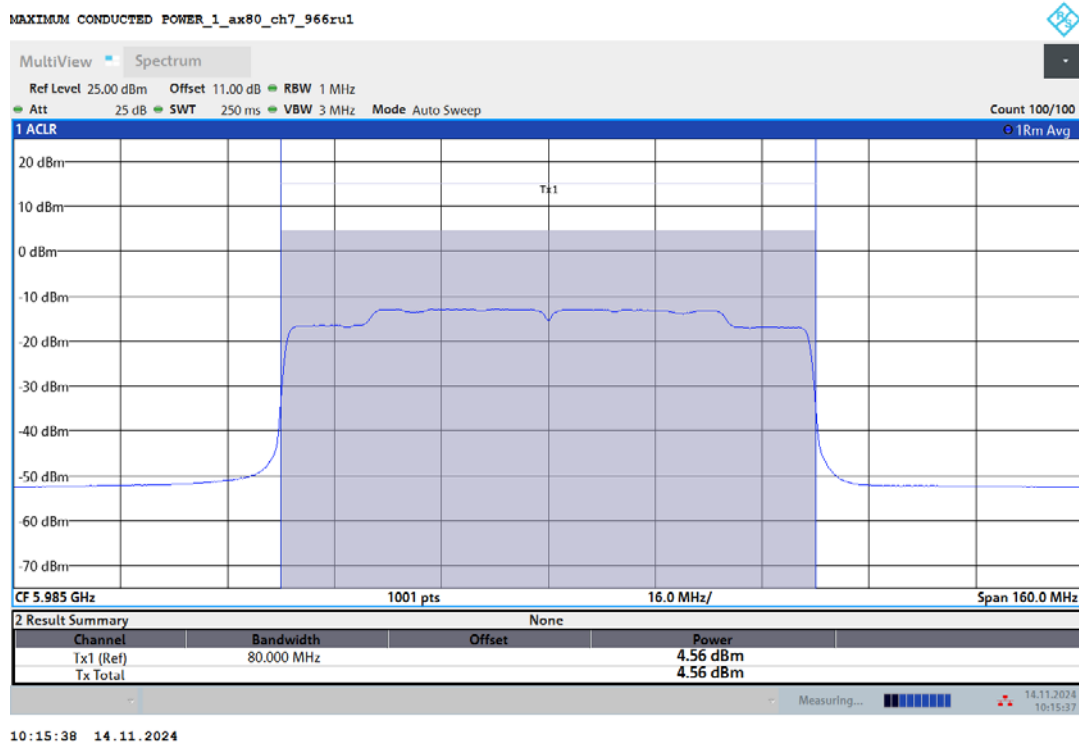
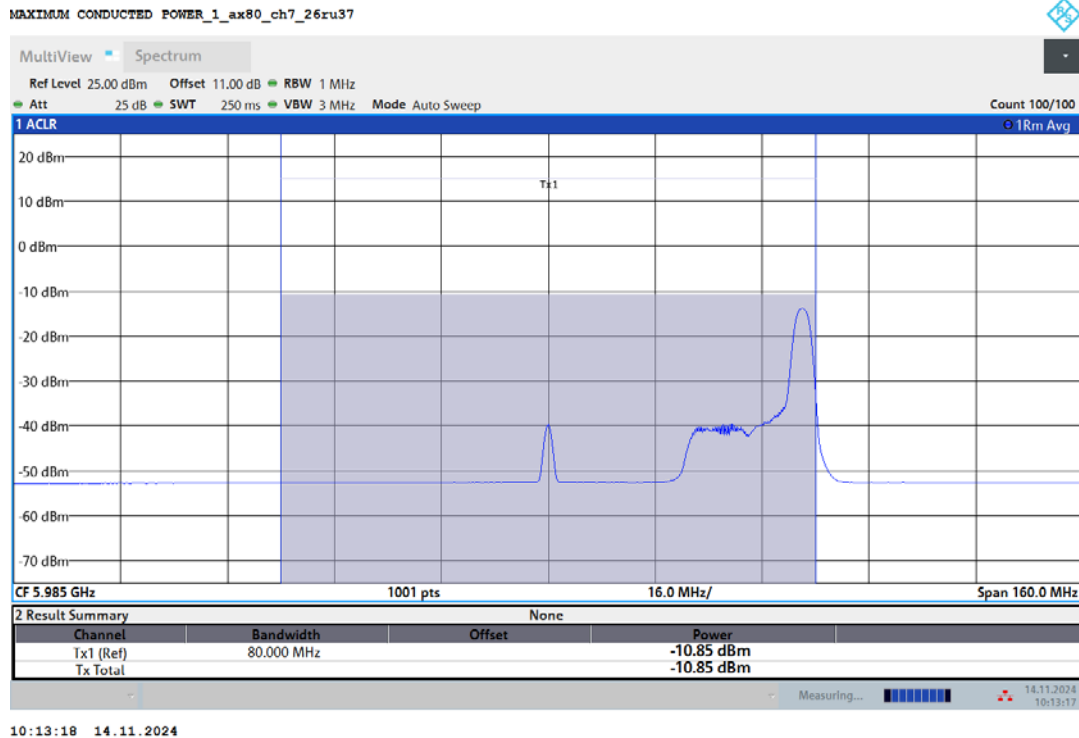
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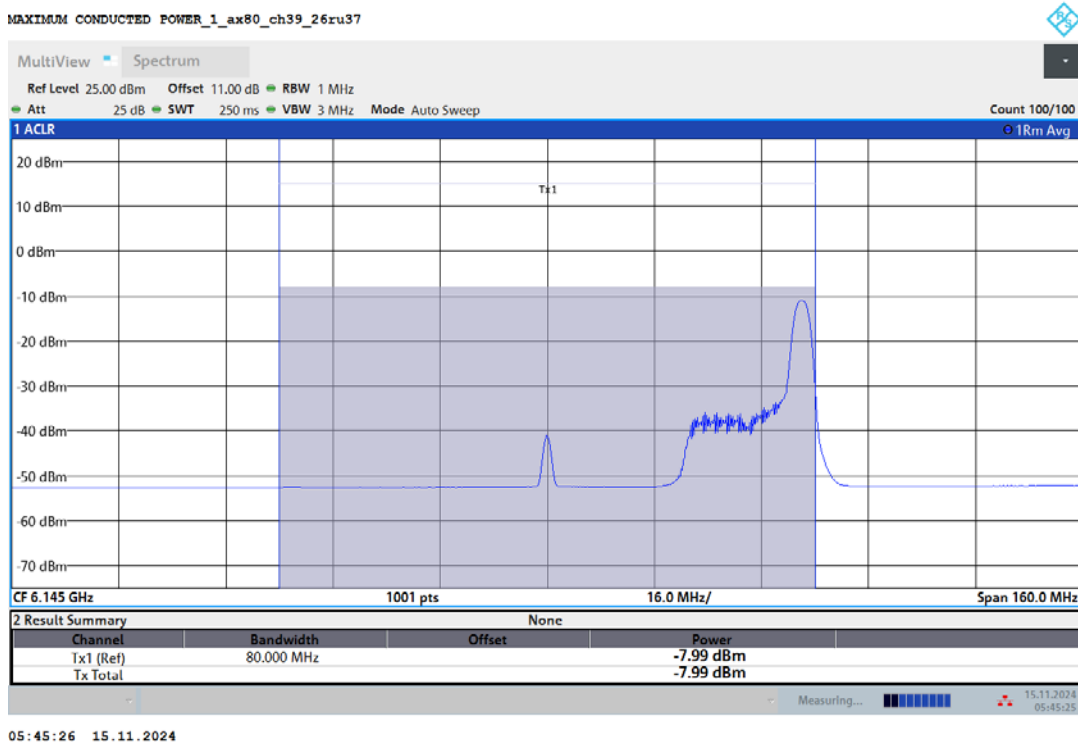
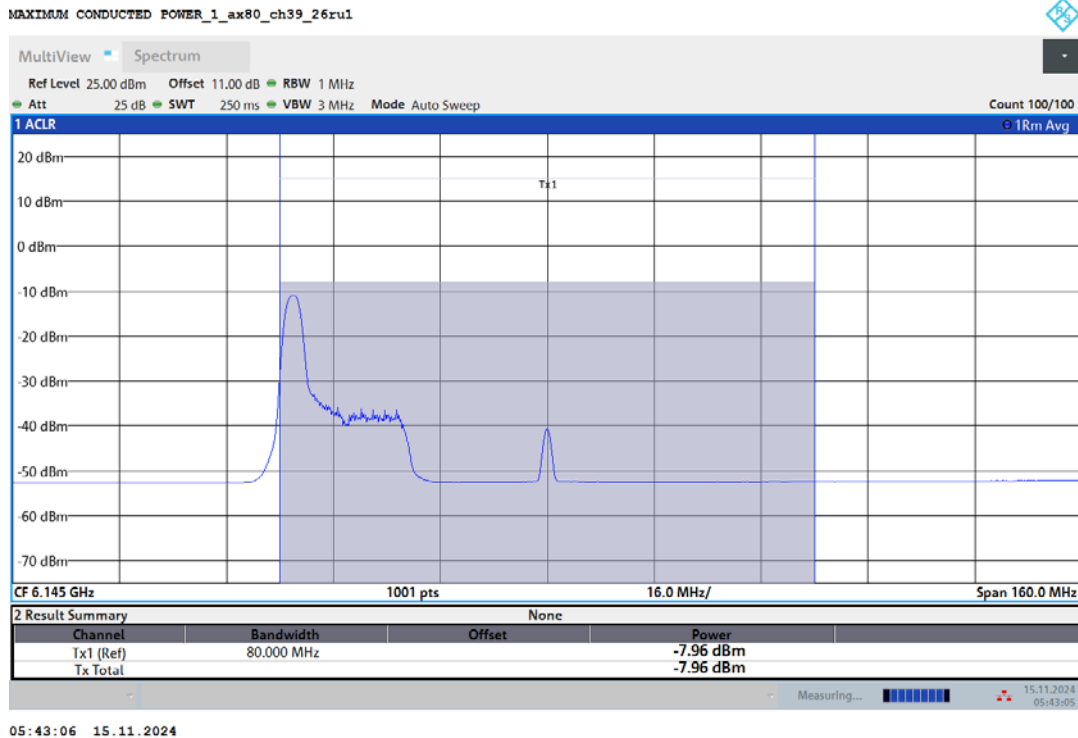
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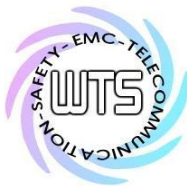




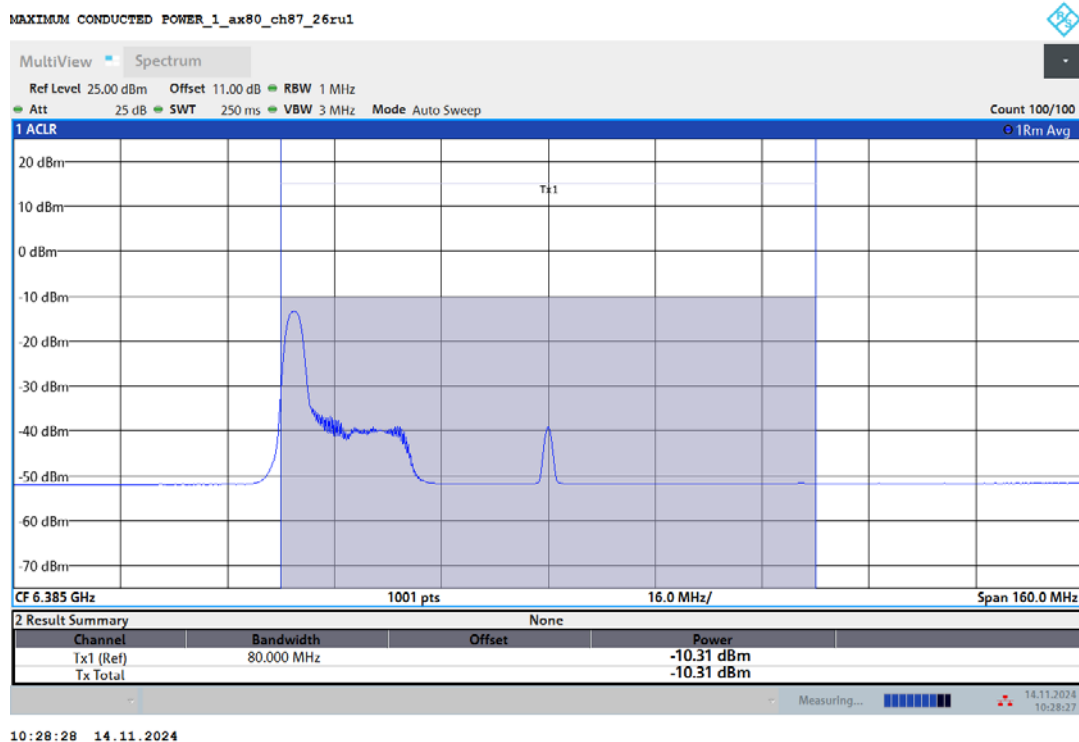
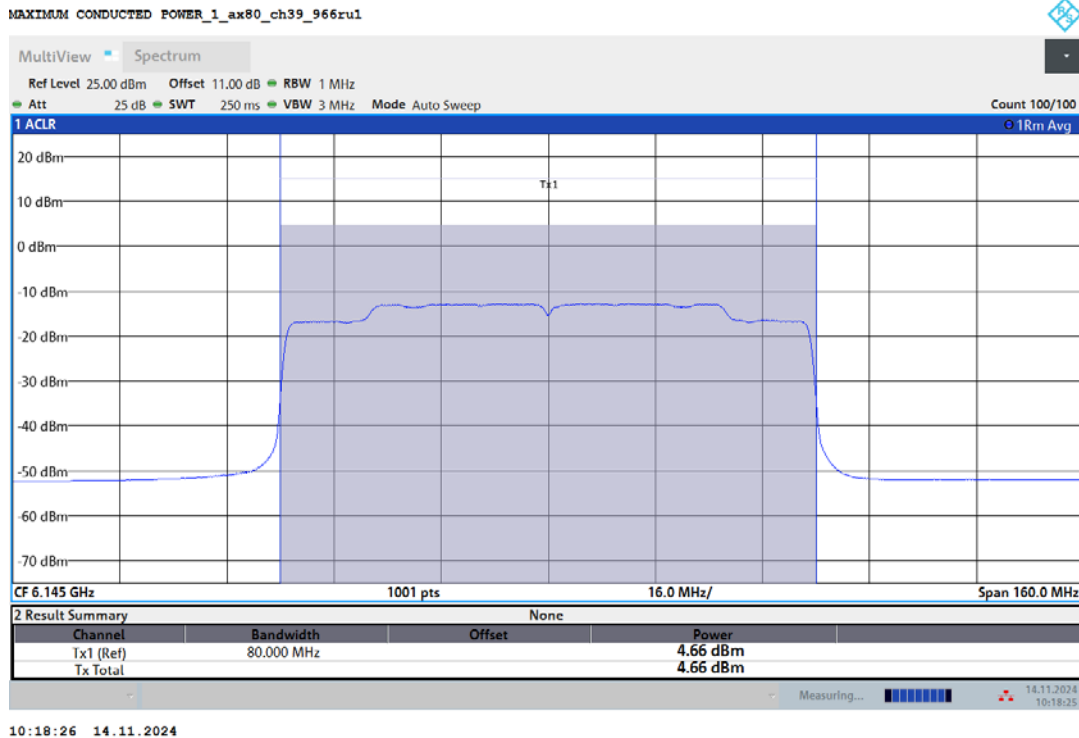
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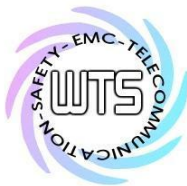
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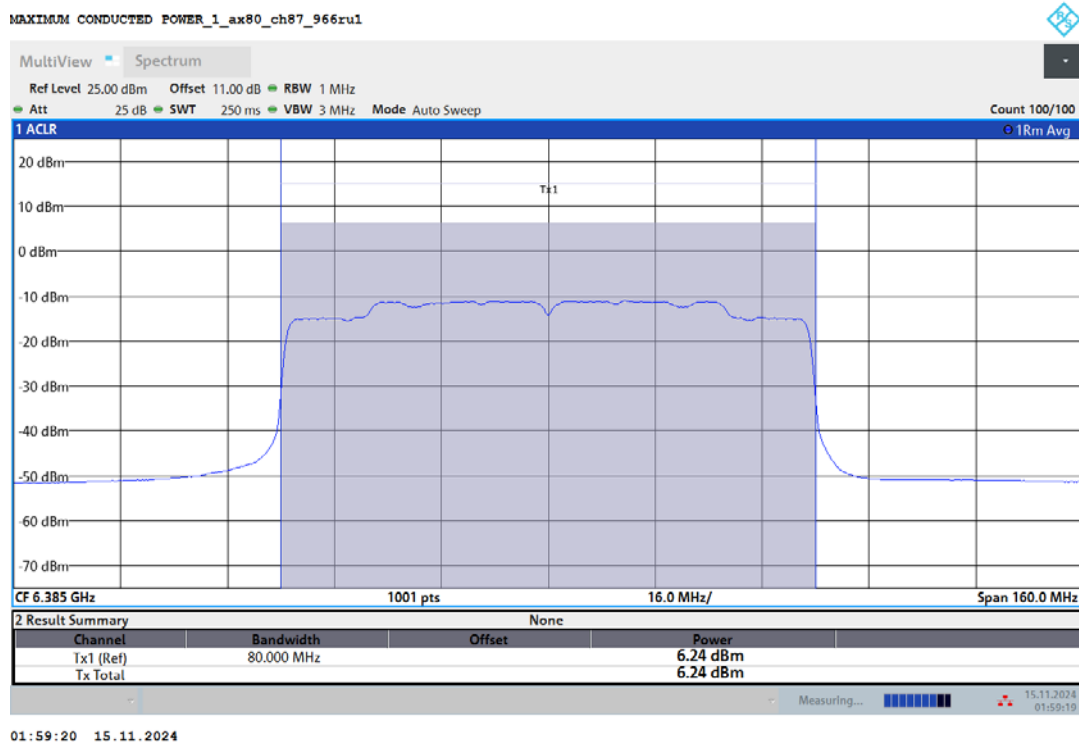
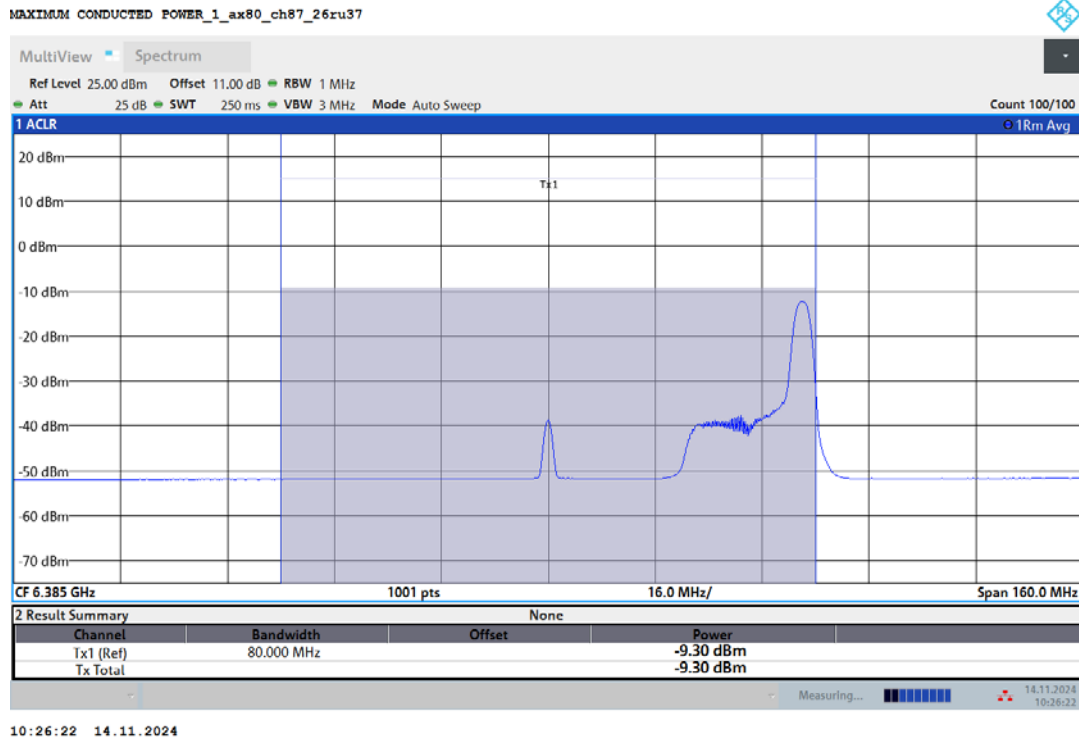


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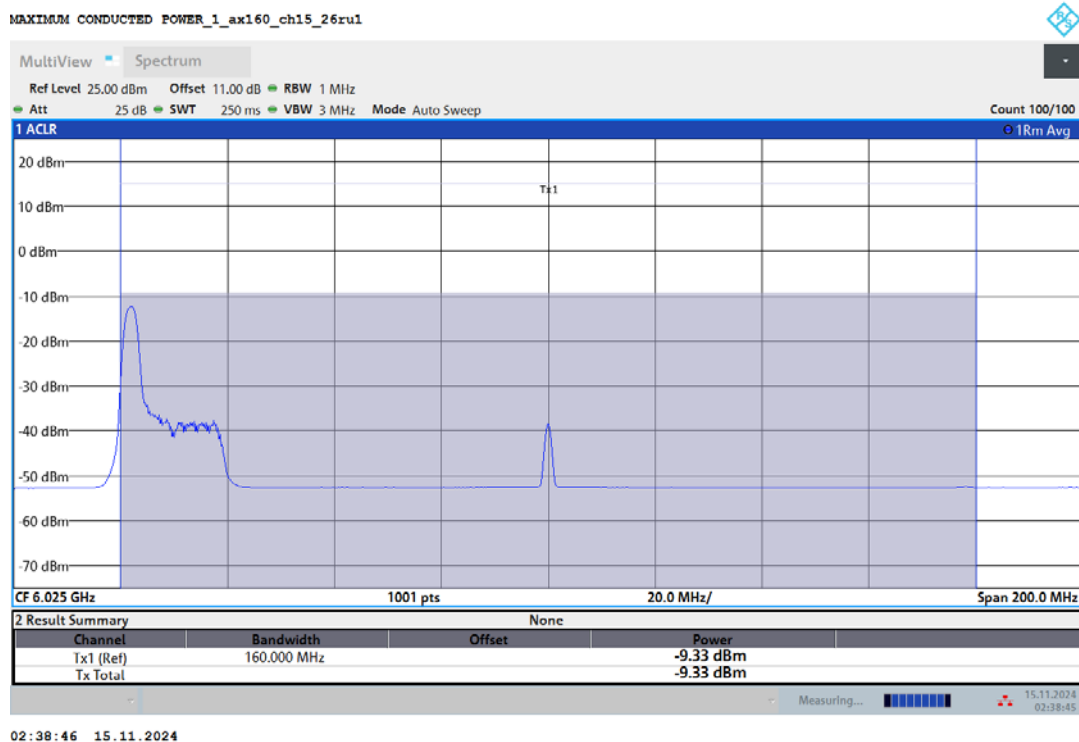
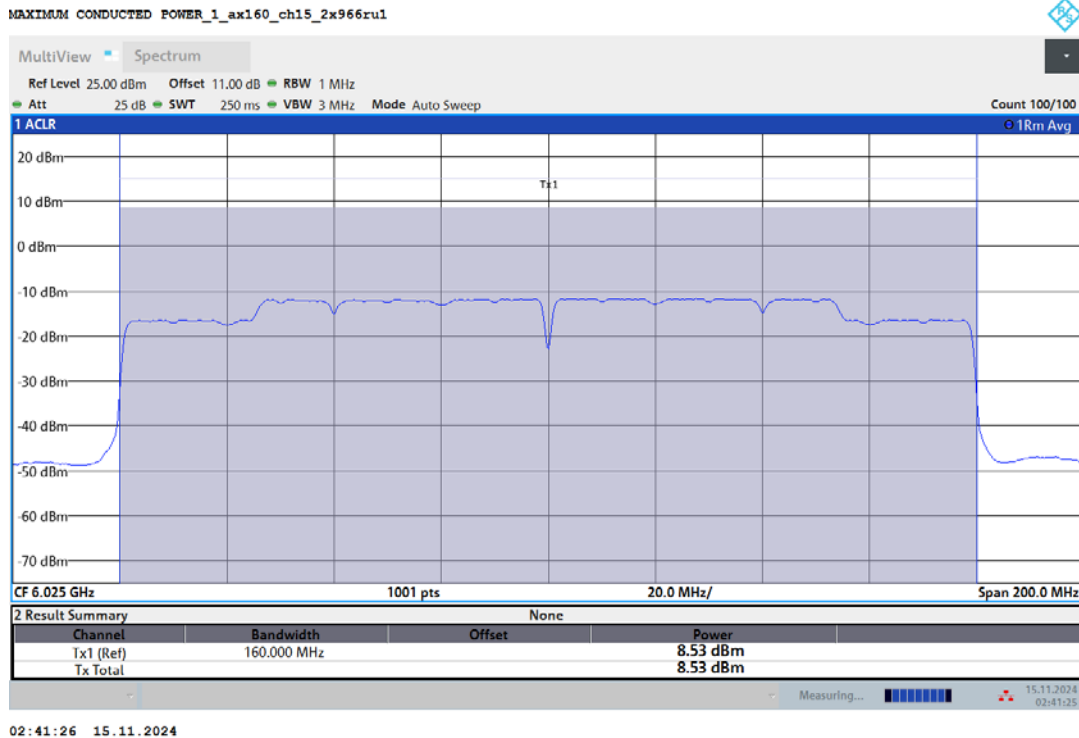
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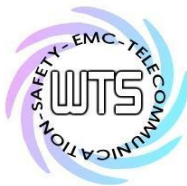




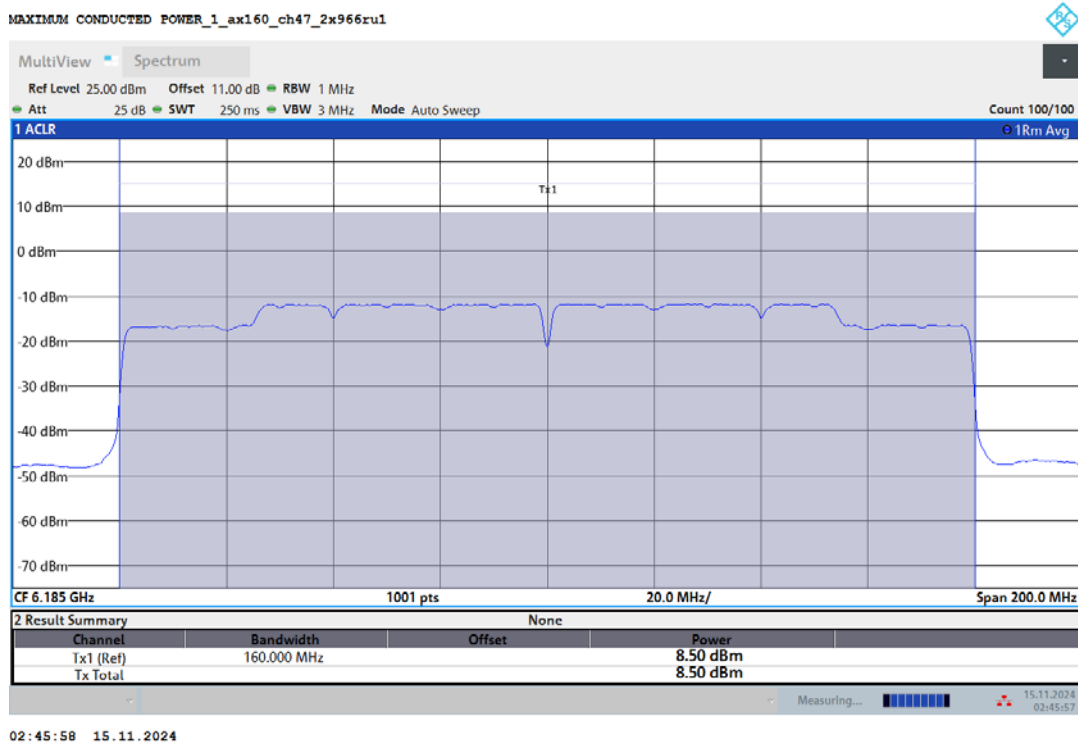
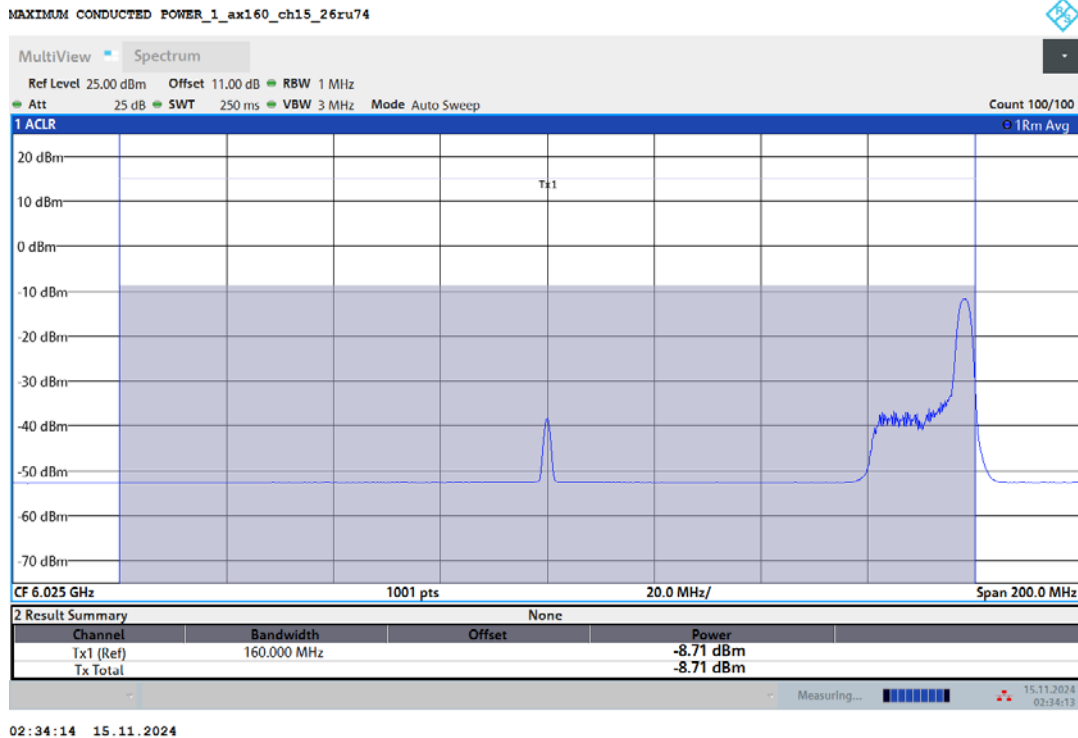
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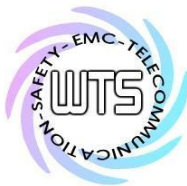
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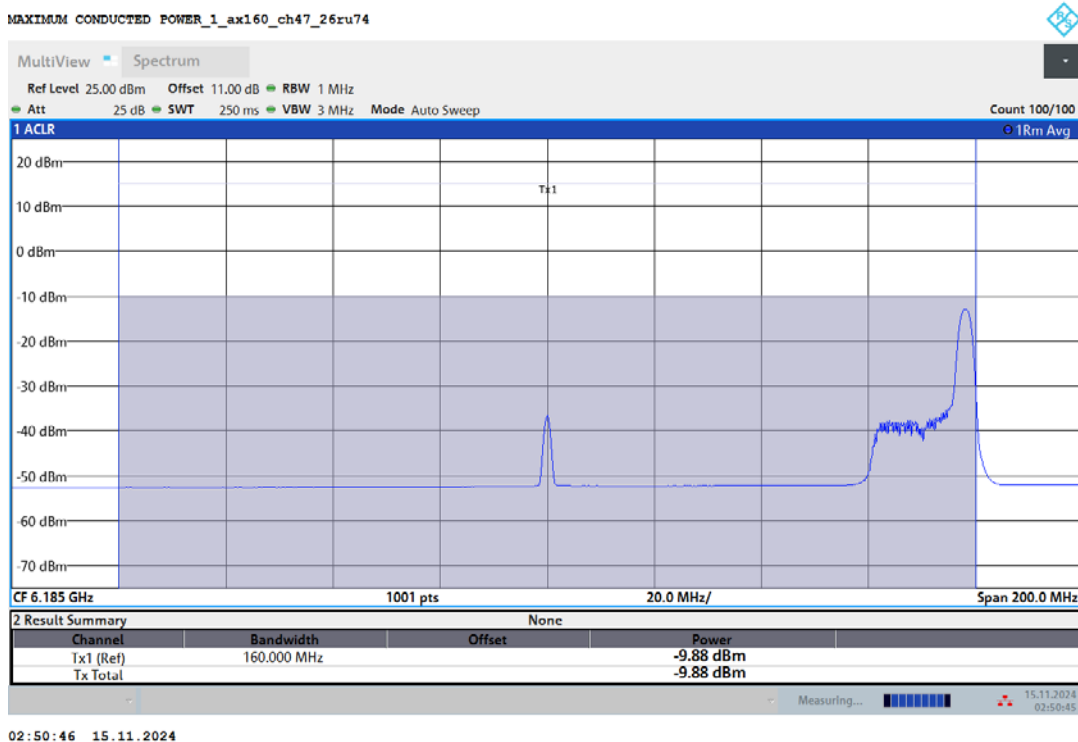
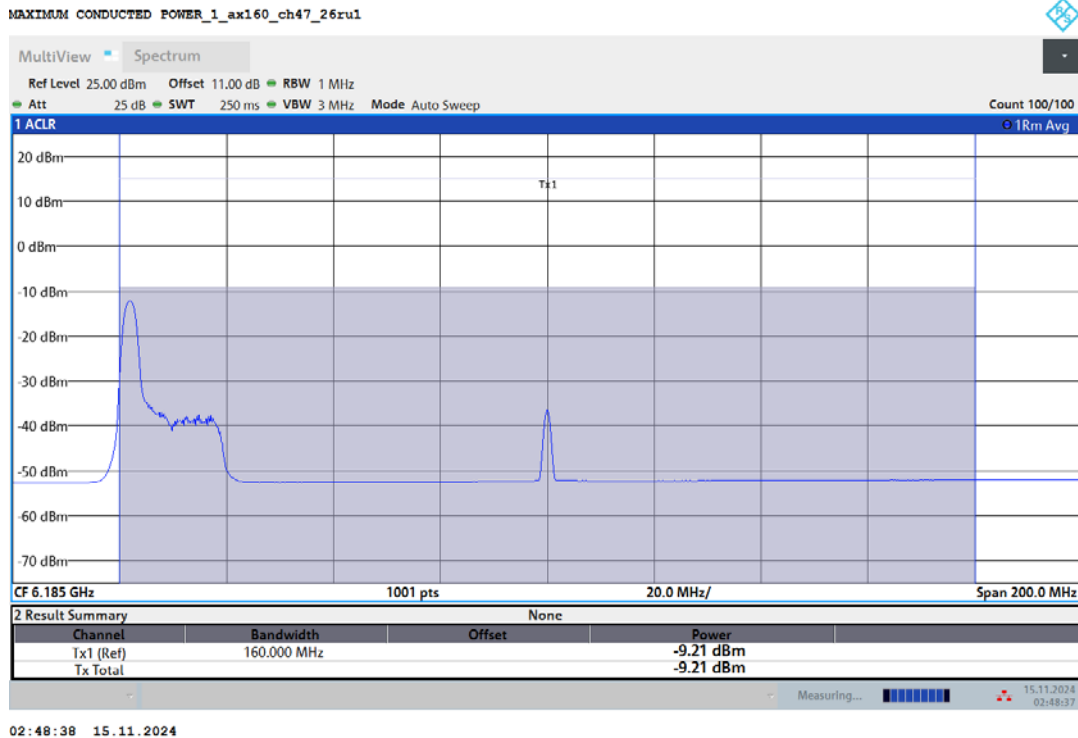


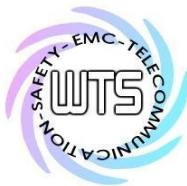
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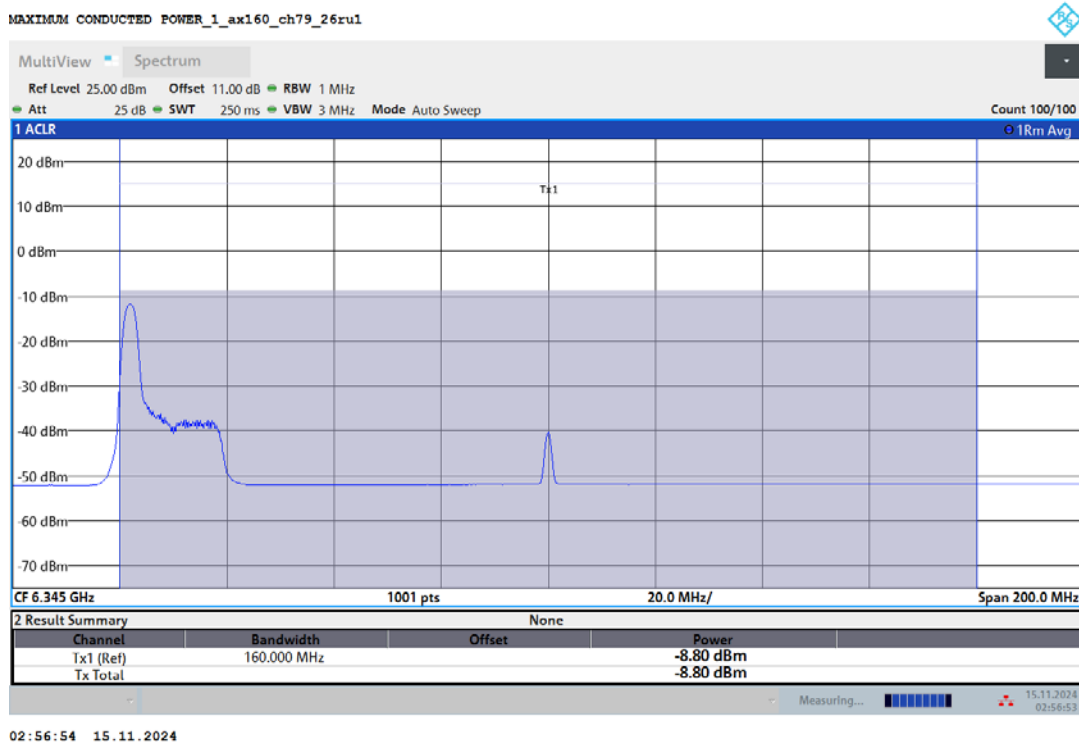
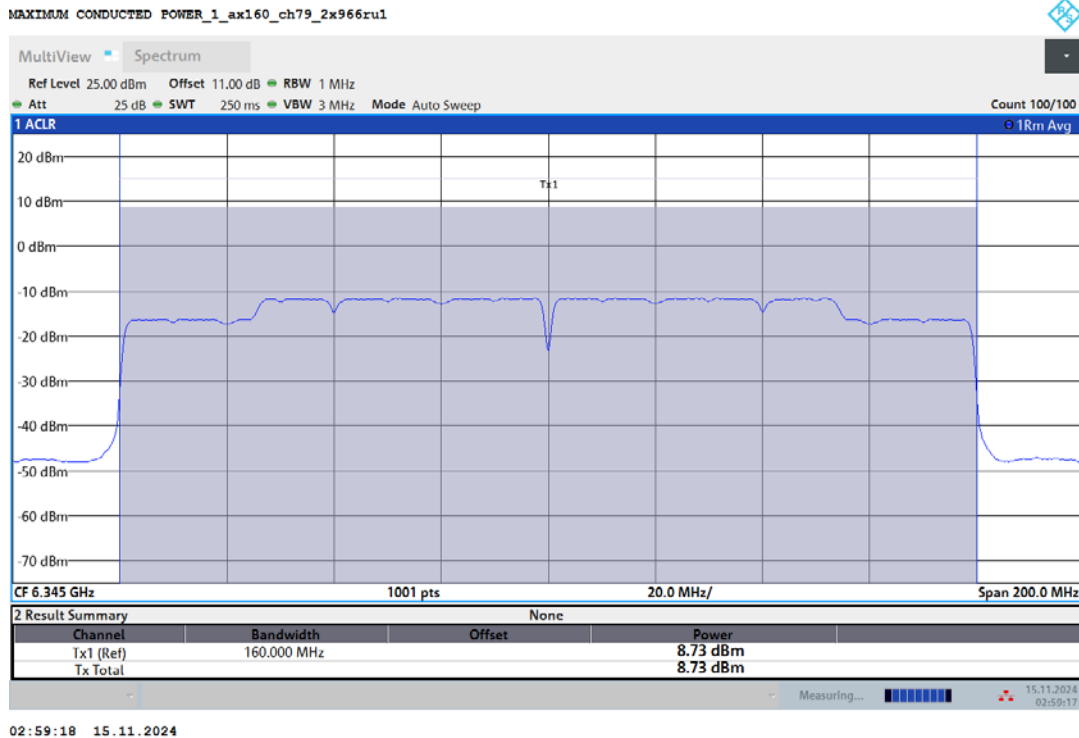
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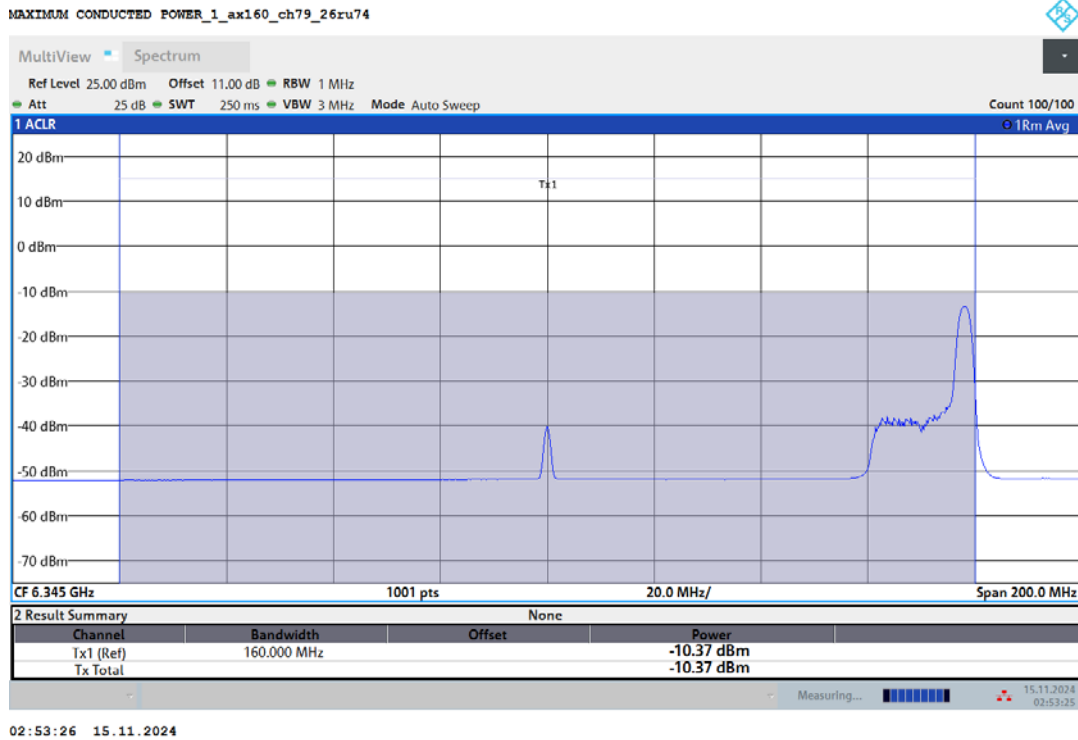
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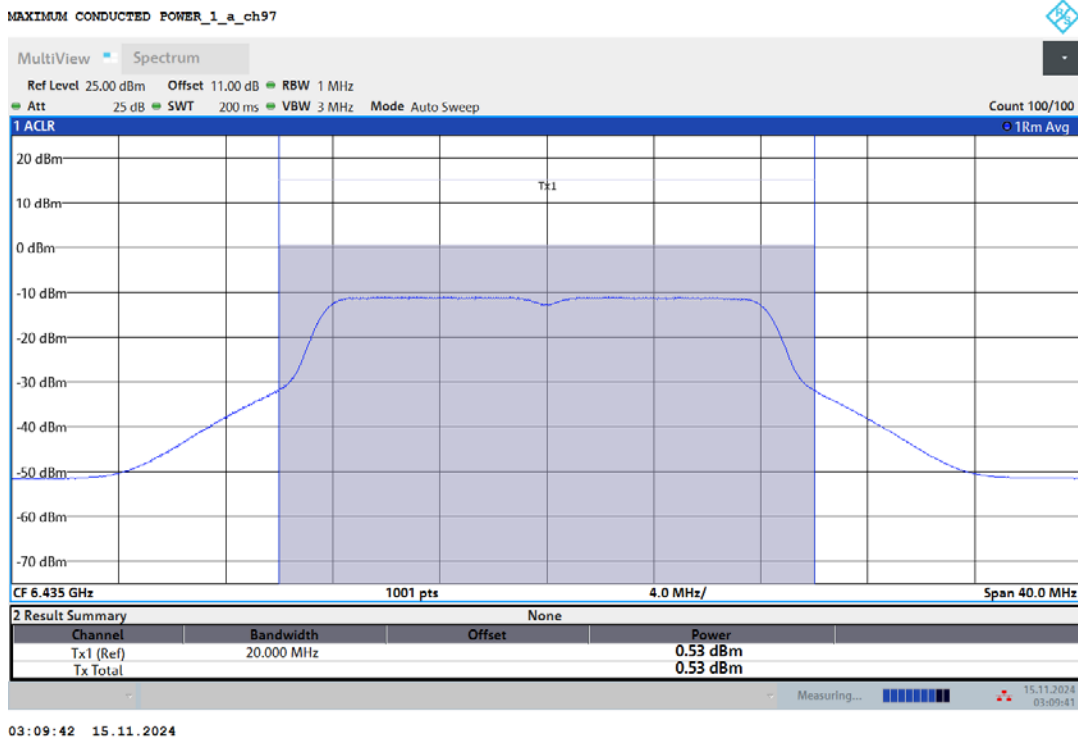




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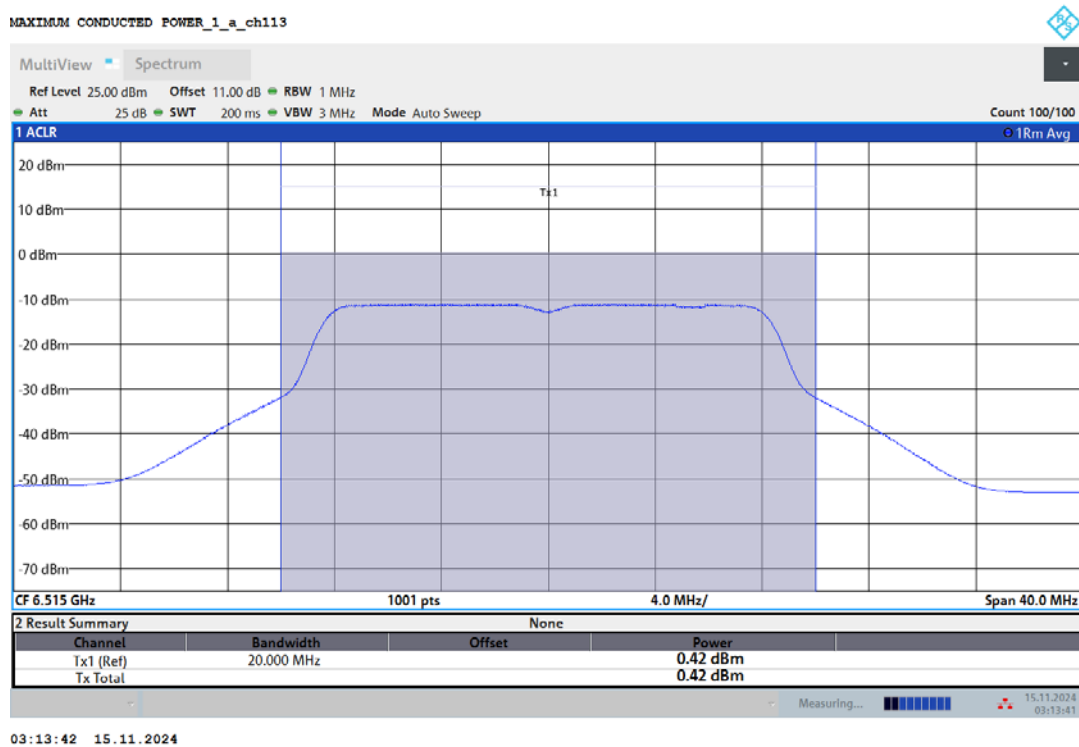
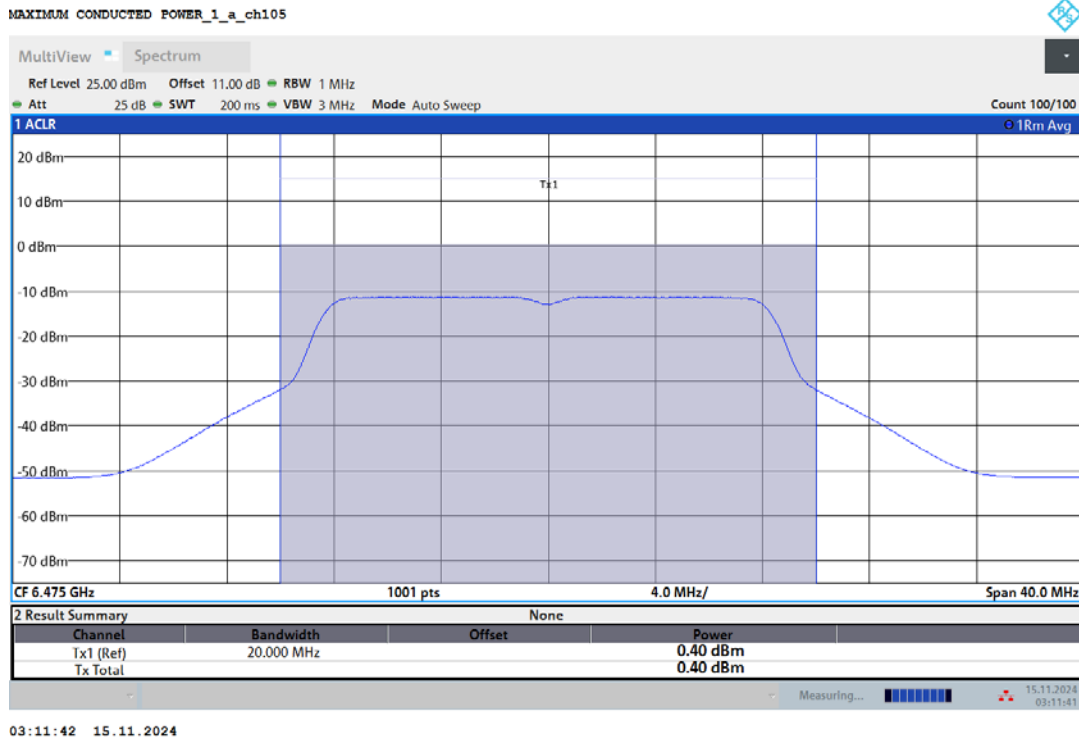
U-NII 6

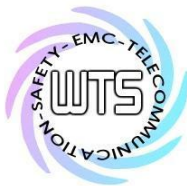




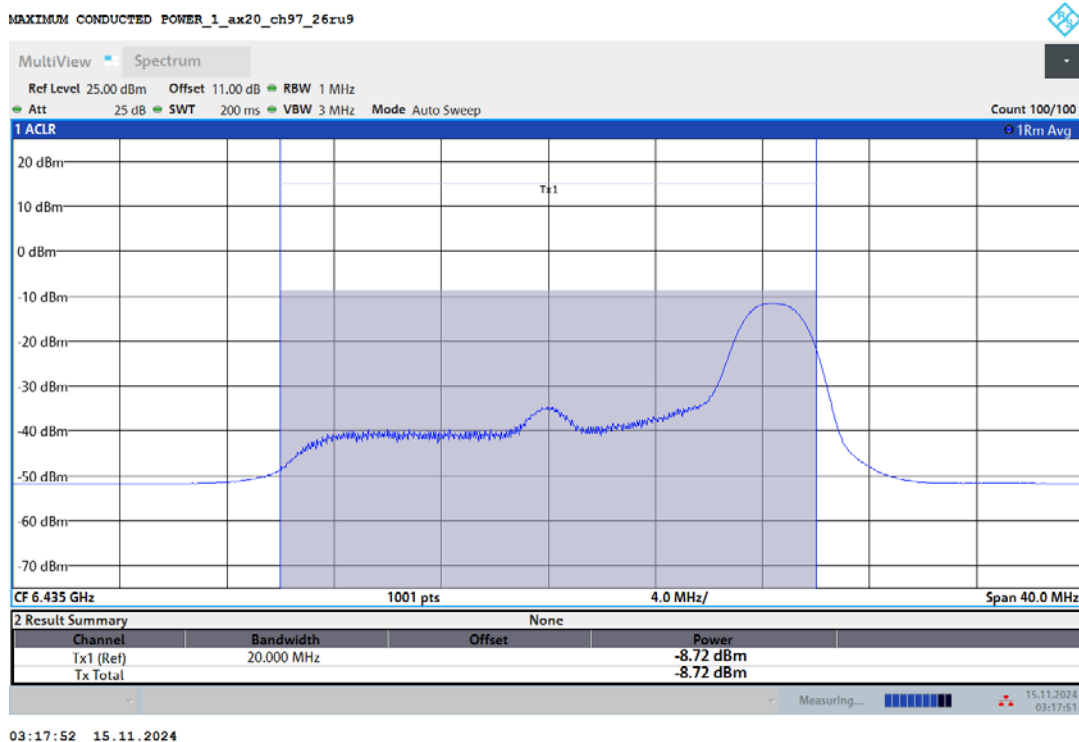
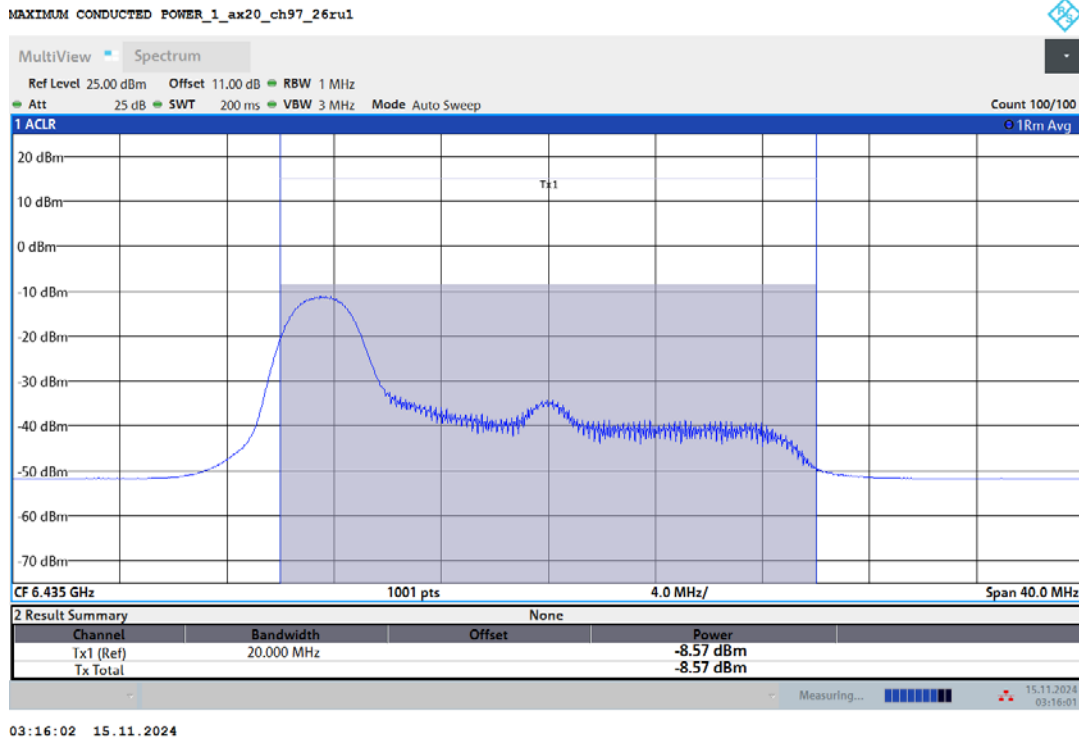
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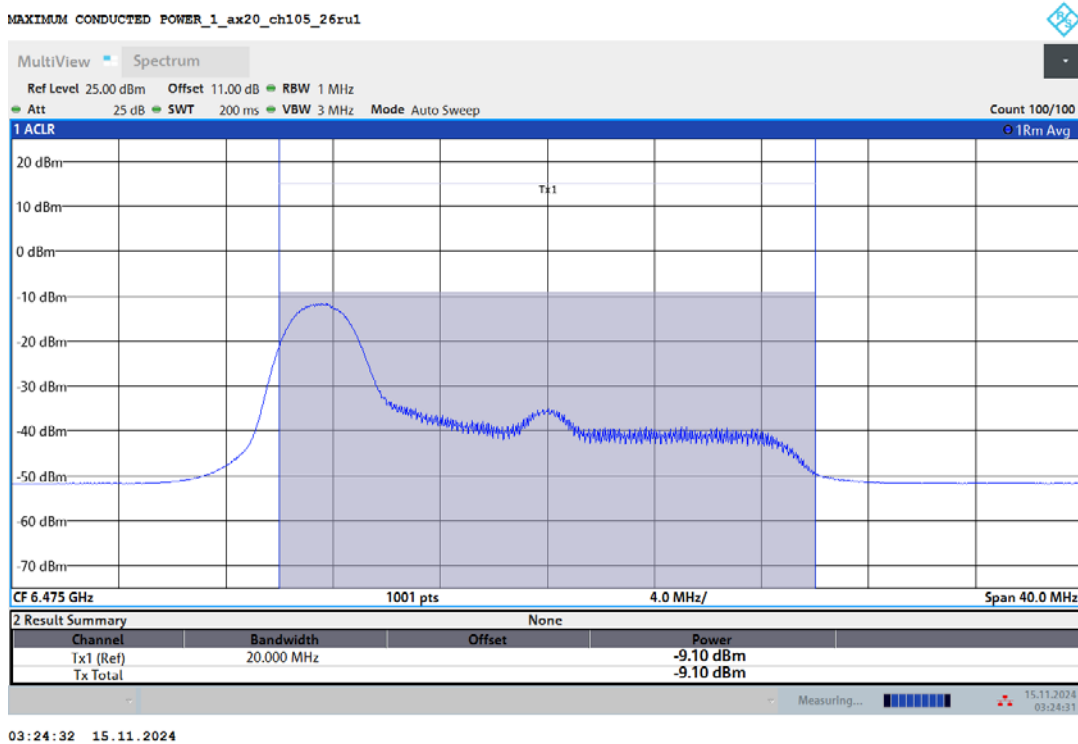
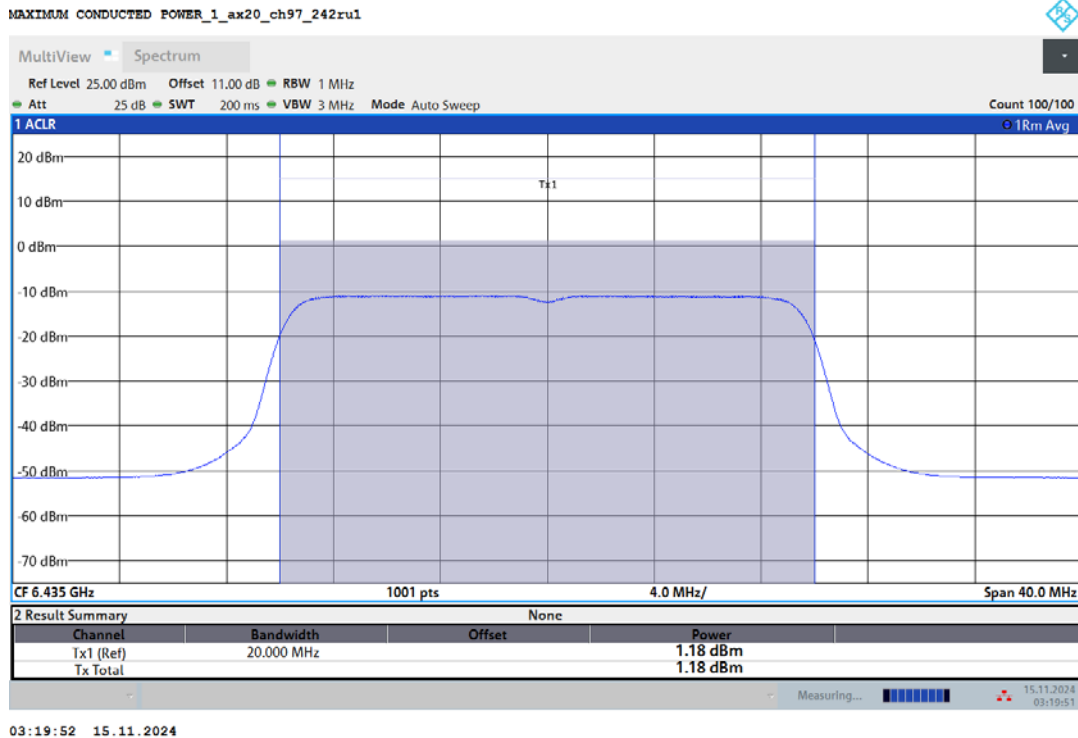


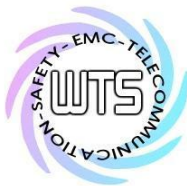
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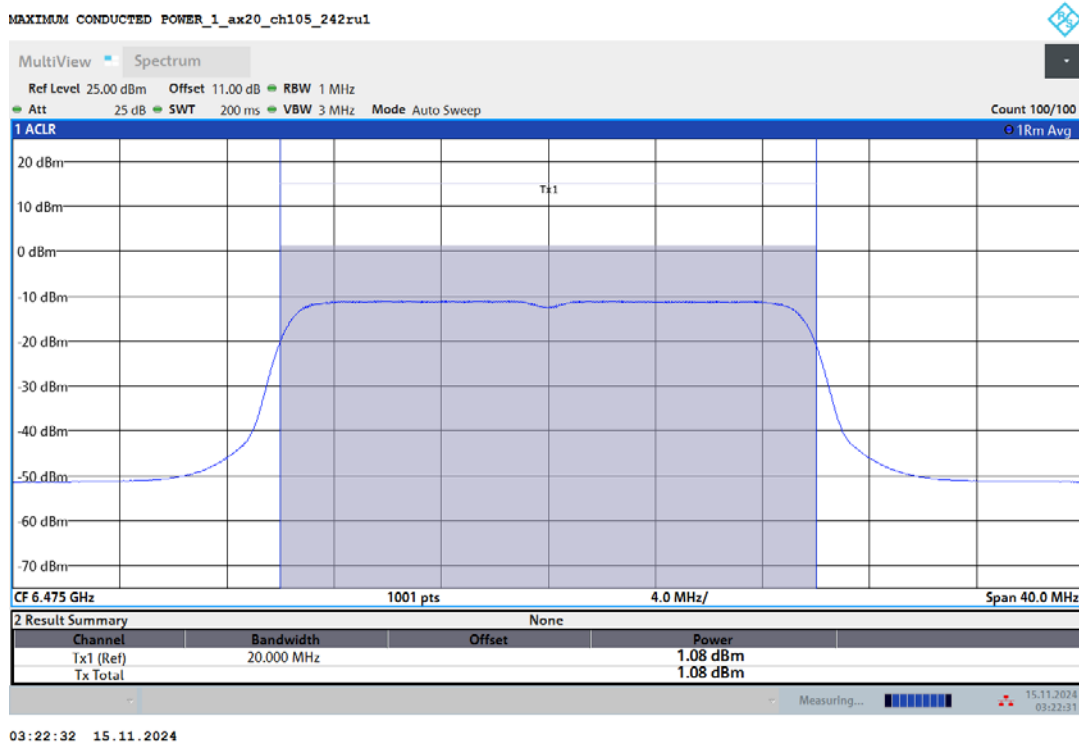
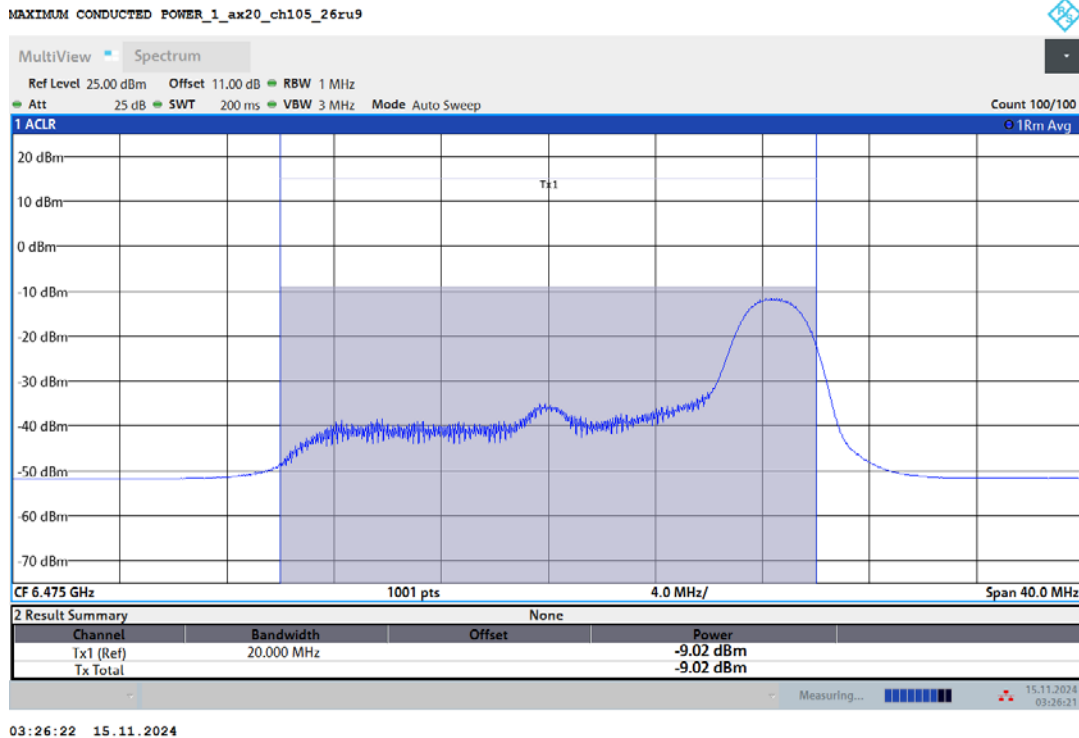


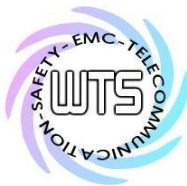
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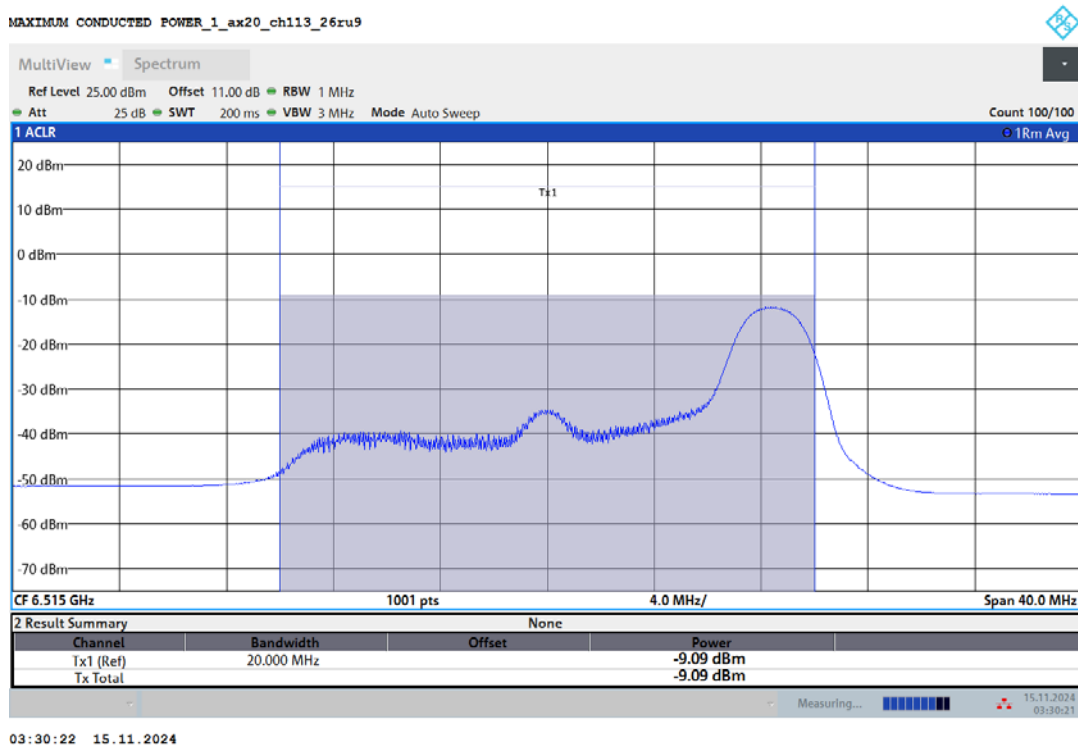
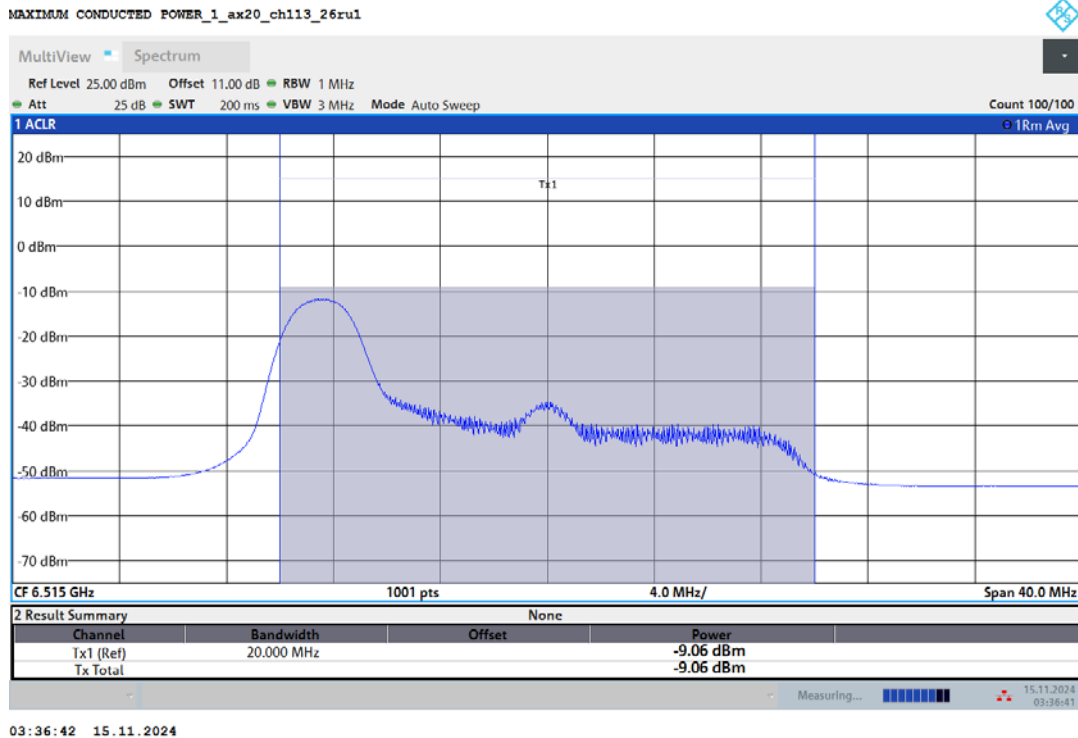


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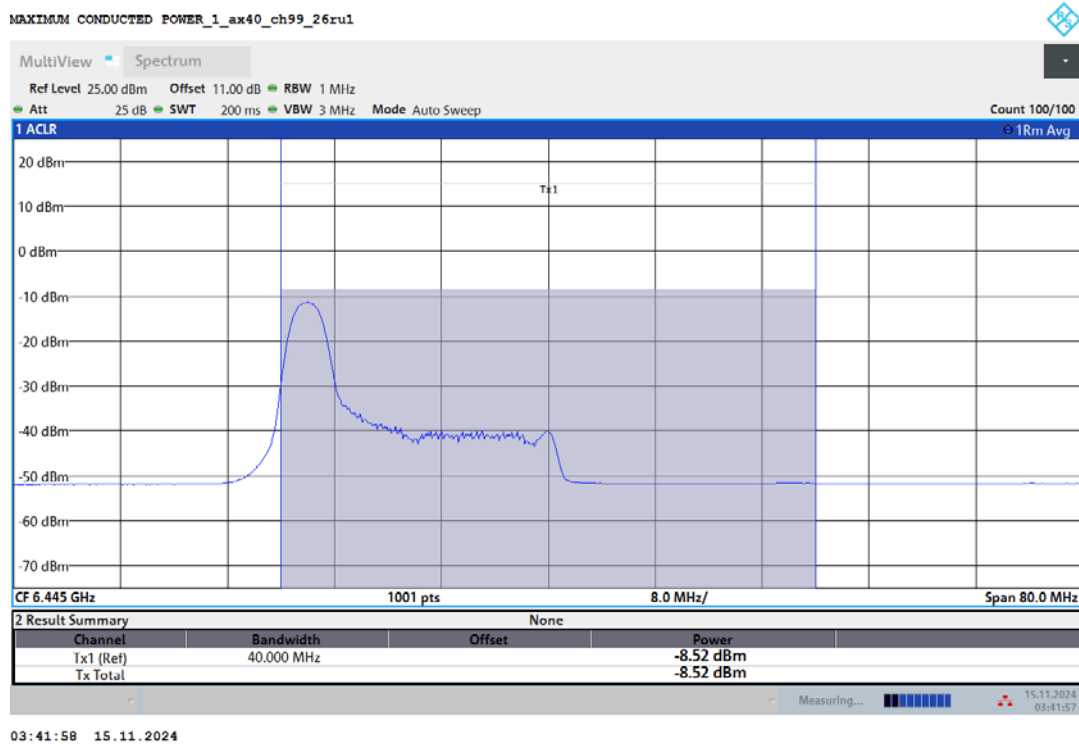
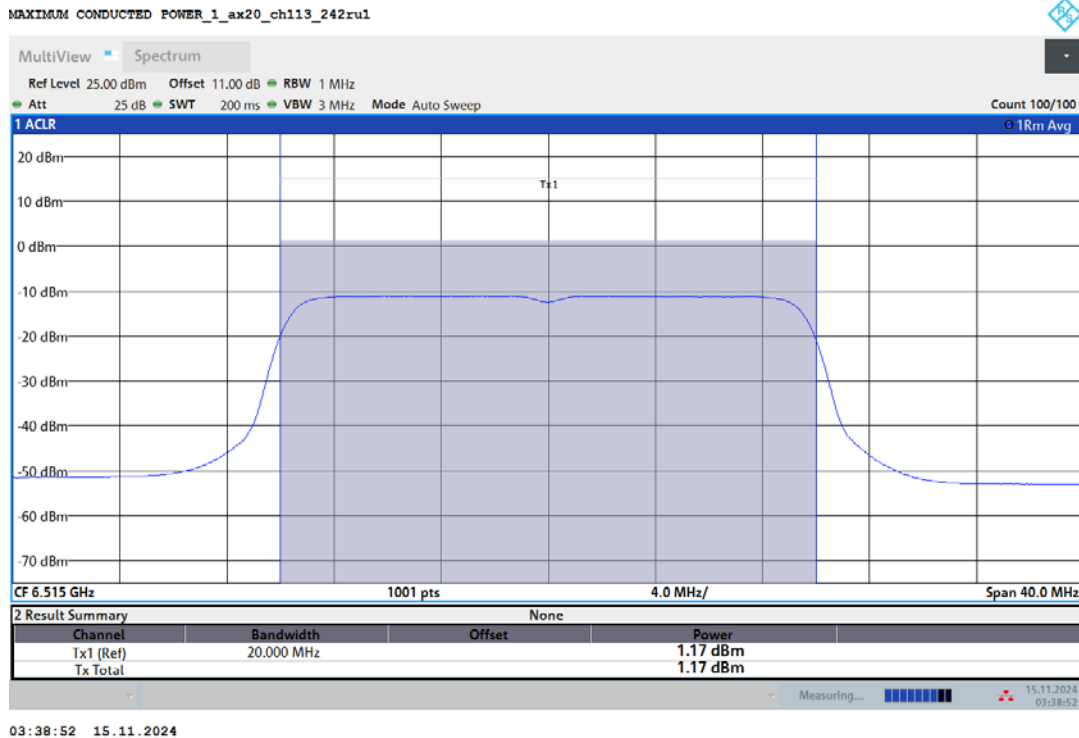
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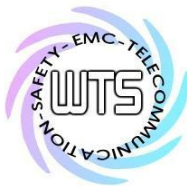




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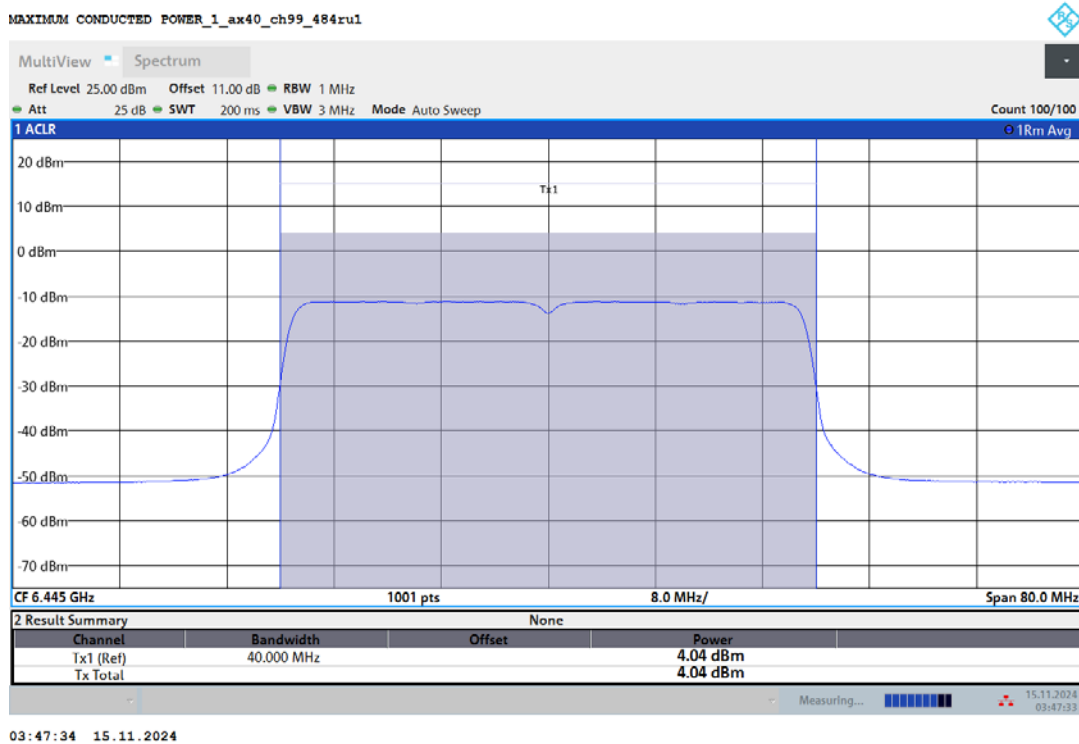
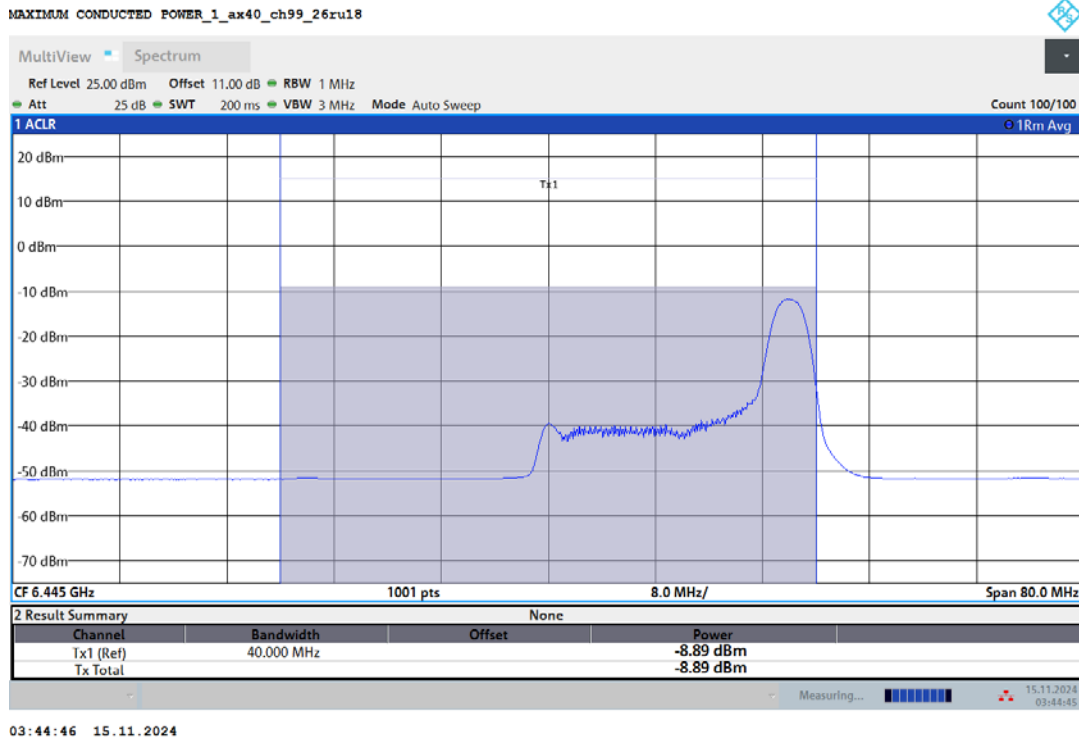
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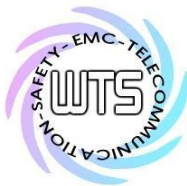




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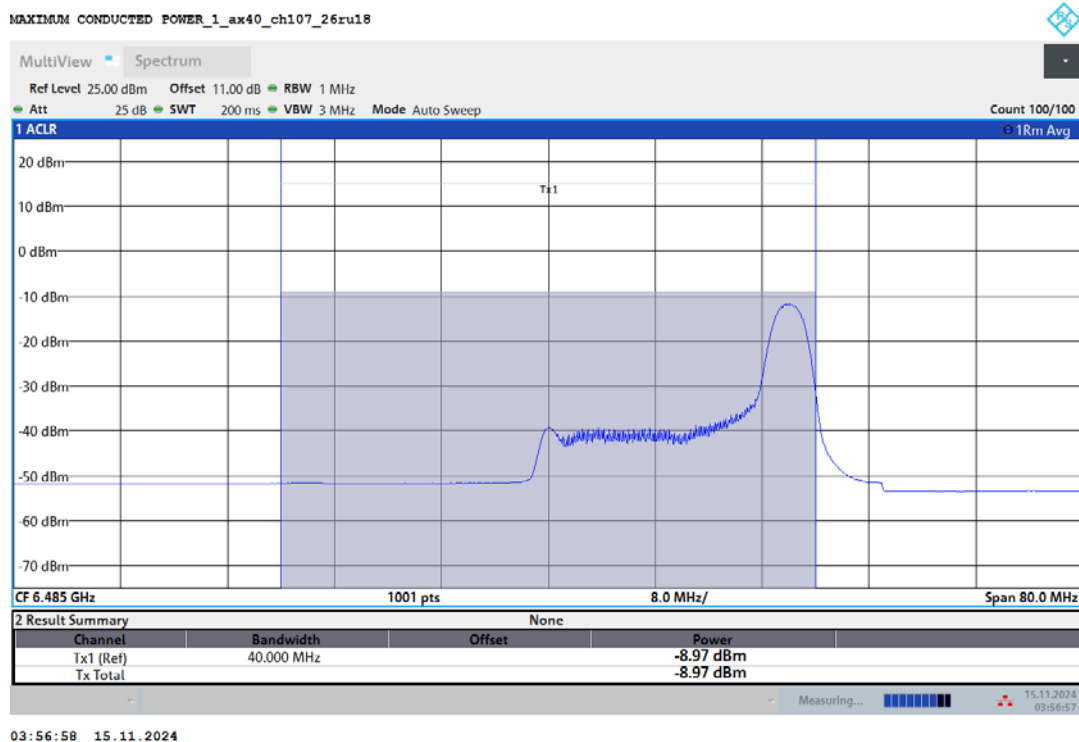
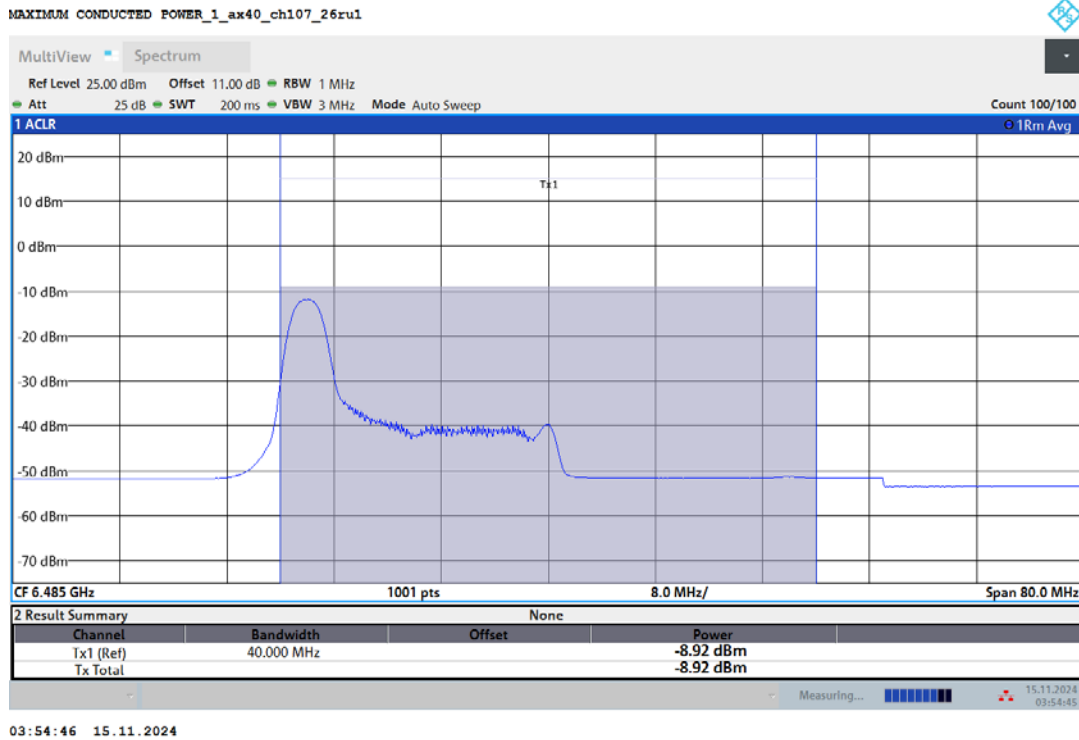
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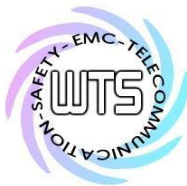




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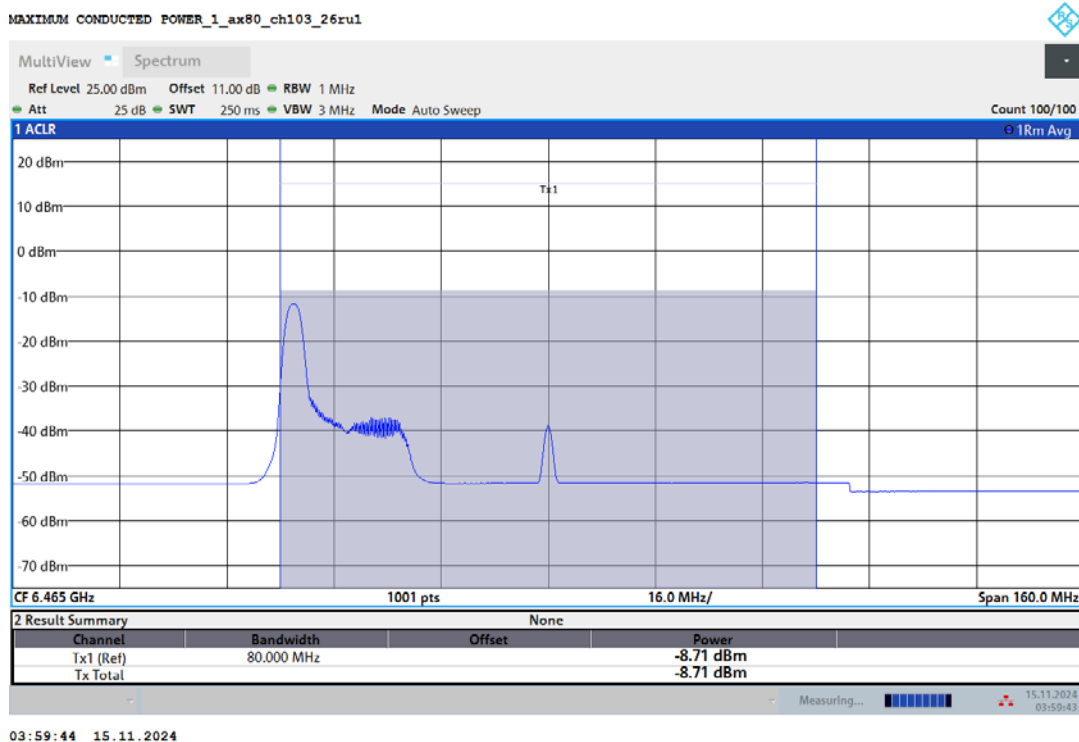
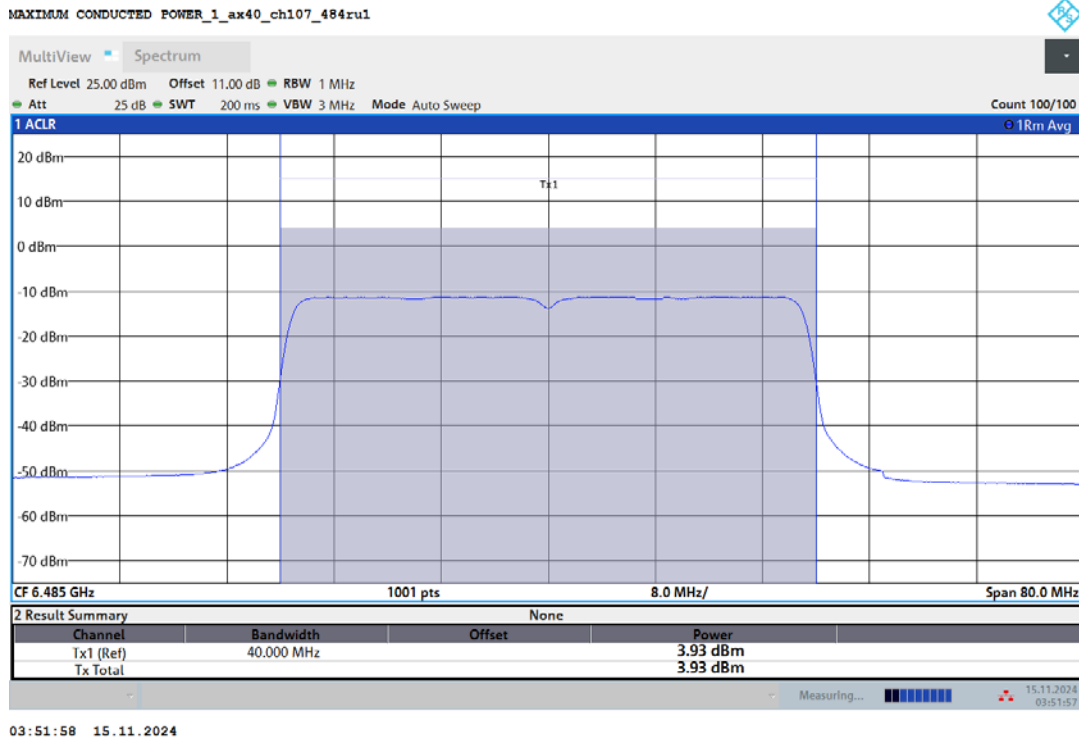
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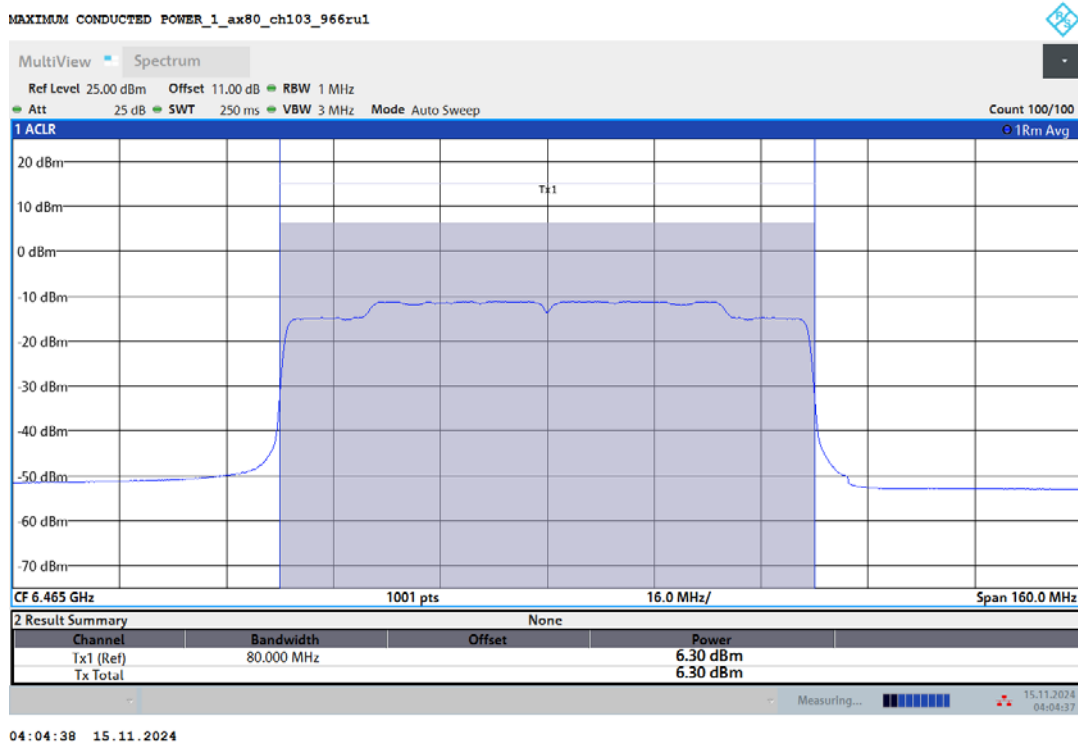
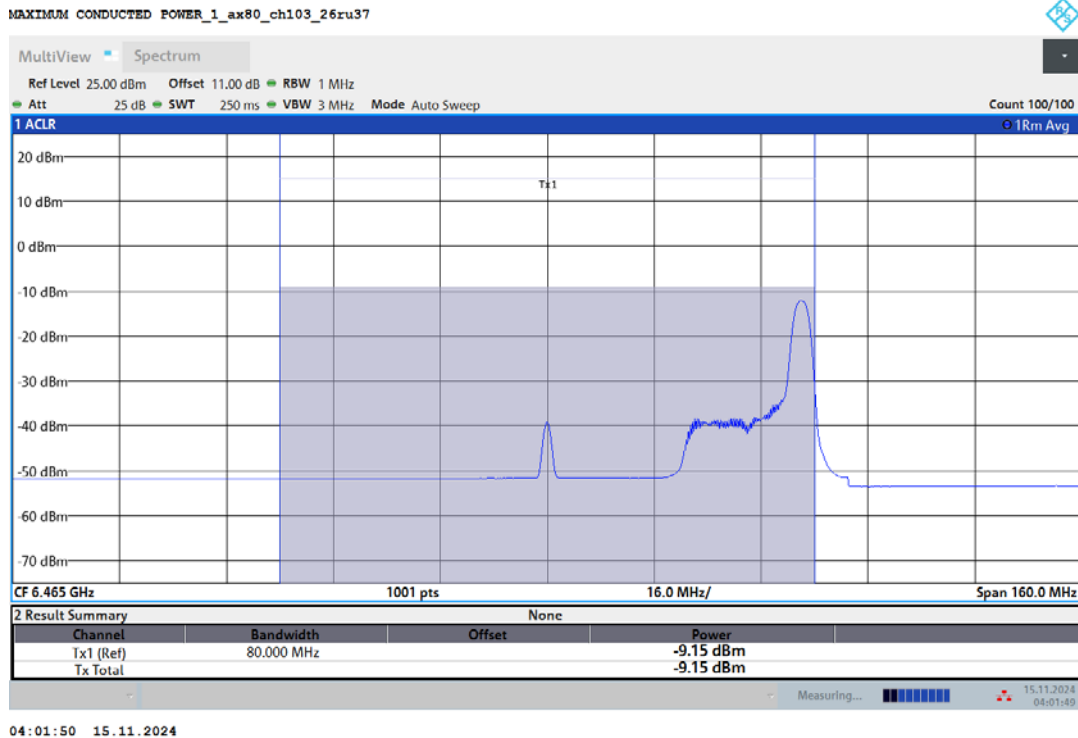
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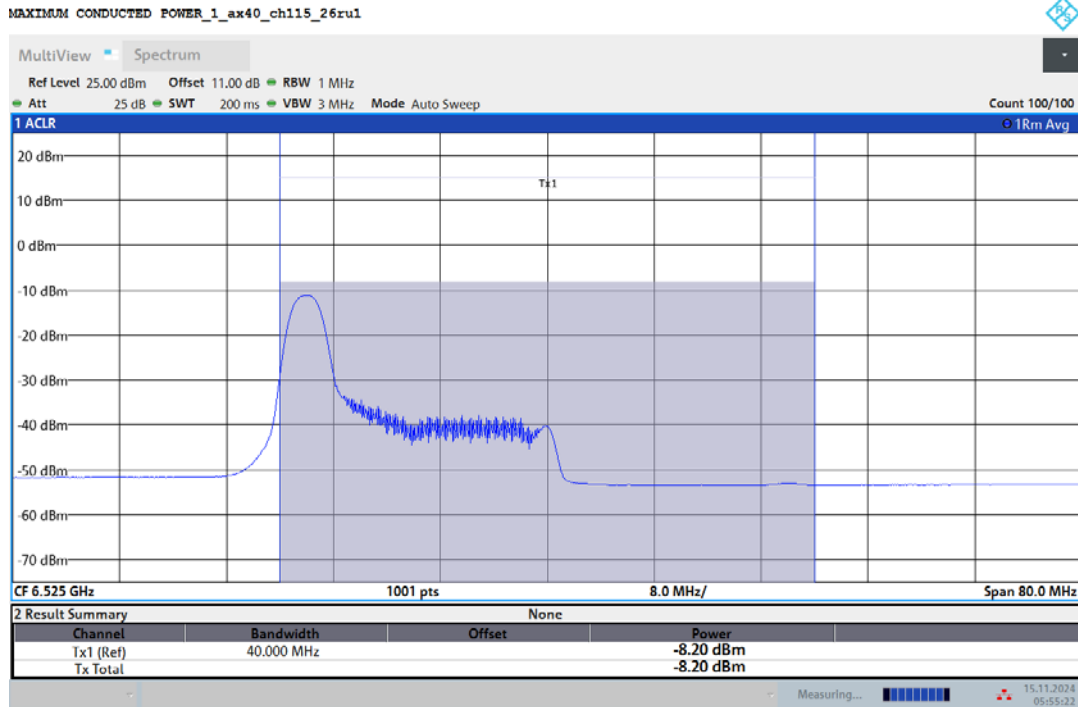




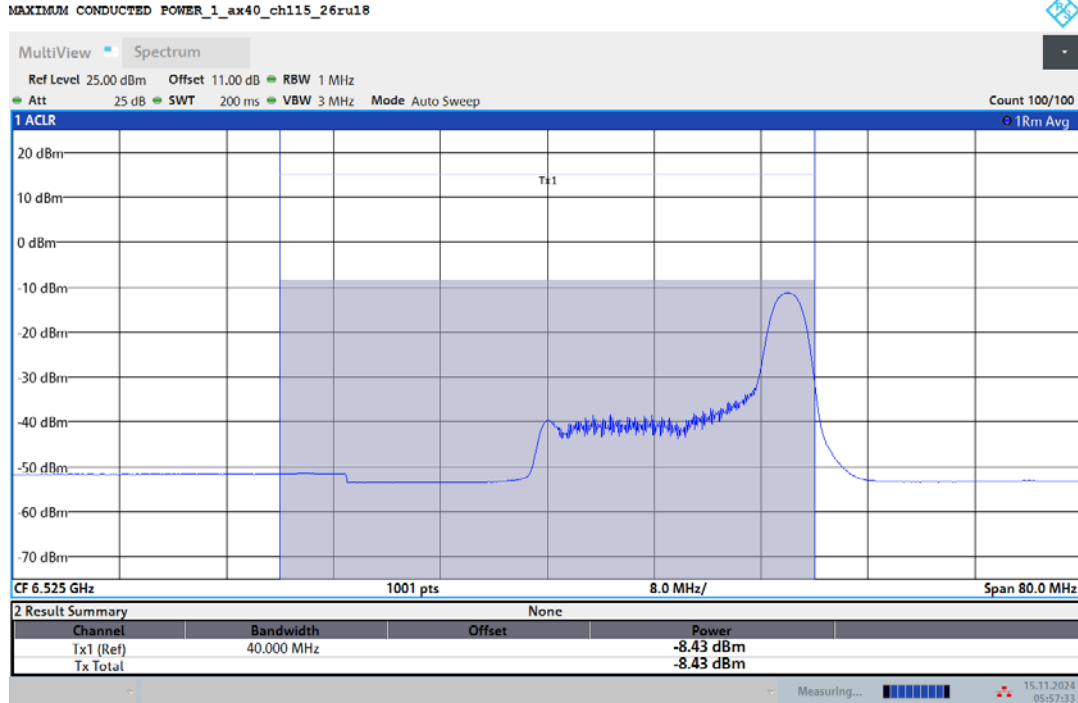
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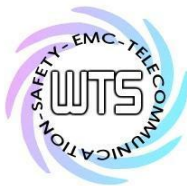
U-NII 6-7



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