

47 CFR PART 15 SUBPART E TEST REPORT

for

Notebook Computer

Model No.: RK15

FCC ID: IR5RK15

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.: TW1477, TW1072

Industry Canada filed test laboratory Reg. No.: 20037, 5107A



Report No.: W6M22307-22823-C-2

6F, NO. 58, LANE 188, RUEY-KUANG RD., NEIHU TAIPEI 114, TAIWAN, R.O.C.
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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 is 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:

September 13, 2023

Sora Kuo

Date

WTS-Lab.

Name

Signature

Technical responsibility for area of testing:

September 13, 2023

Kevin Wang

Date

WTS

Name

Signature



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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.35, Aly. 21, Ln. 228, Ankang Rd., Neihu Dist.,
Taipei City 114, Taiwan (R.O.C.)
Tel: 886-2-6613-0228

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.: TW1477, TW1072
Industry Canada filed test laboratory Reg. No.: 20037, 5107A

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: July 11, 2023
Date of test: from July 12, 2023 to September 13, 2023



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1.5 General information of Test item

Type of test item: Notebook Computer
 Model number: RK15
 Brand name: MilDef Crete
 Multi-listing model number: ./.
 Sample no.: #01

Technical data

Frequency band: Band 1: 5.150 GHz-5.250 GHz, Band 4: 5.725 GHz-5.850 GHz

Band	Mode	Channel	Conducted Power (dBm)
NII-1	802.11a	Ch 36 : 5180 MHz	9.73
		Ch 44 : 5220 MHz	9.85
		Ch 48 : 5240 MHz	9.59
	802.11ax 20M	Ch 36 : 5180 MHz	11.14
		Ch 44 : 5220 MHz	11.36
		Ch 48 : 5240 MHz	11.24
	802.11ax 40M	Ch 38 : 5190 MHz	11.45
		Ch 46 : 5230 MHz	11.47
	802.11ax 80M	Ch 42 : 5210 MHz	11.75
NII-3	802.11a	Ch 149 : 5745 MHz	9.53
		Ch 157 : 5785 MHz	9.84
		Ch 165 : 5825 MHz	9.91
	802.11ax 20M	Ch 149 : 5745 MHz	11.87
		Ch 157 : 5785 MHz	11.87
		Ch 165 : 5825 MHz	12.14
	802.11ax 40M	Ch 151 : 5755 MHz	12.04
		Ch 159 : 5795 MHz	12.17
	802.11ax 80M	Ch 155 : 5775 MHz	11.84

Operating modes: Duplex
 Type of modulation: OFDM/DSSS
 Fixed point to point operation: Yes / No
 Type of antenna: PIFA antenna



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

Manufacturer: (if applicable)

Name: ./.

Street: ./.

Town: ./.

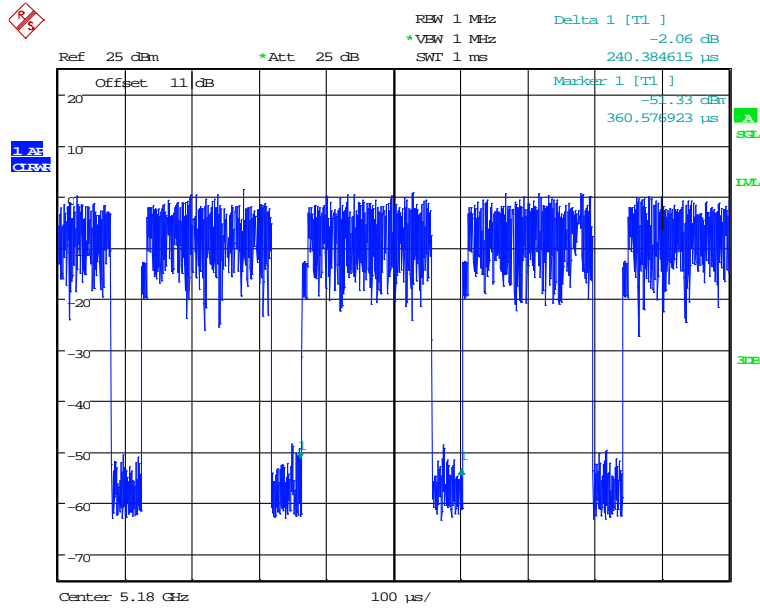
Country: ./.

Duty cycle

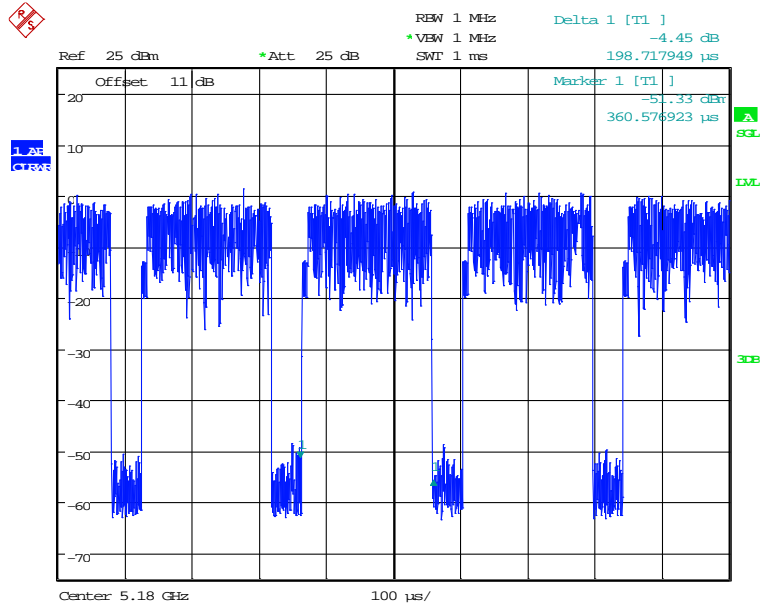
Mode	T _{on} (ms)	T _{on} +T _{off} (ms)	Duty cycle (%)	Duty Factor (dB)	1/T - VBW (kHz)
802.11a	0.198	0.240	82.50%	0.84	5.05
802.11ax 20M	0.293	0.336	87.20%	0.59	3.41
802.11ax 40M	0.376	0.421	89.31%	0.49	2.66
802.11ax 80M	0.729	0.770	94.68%	0.24	1.37



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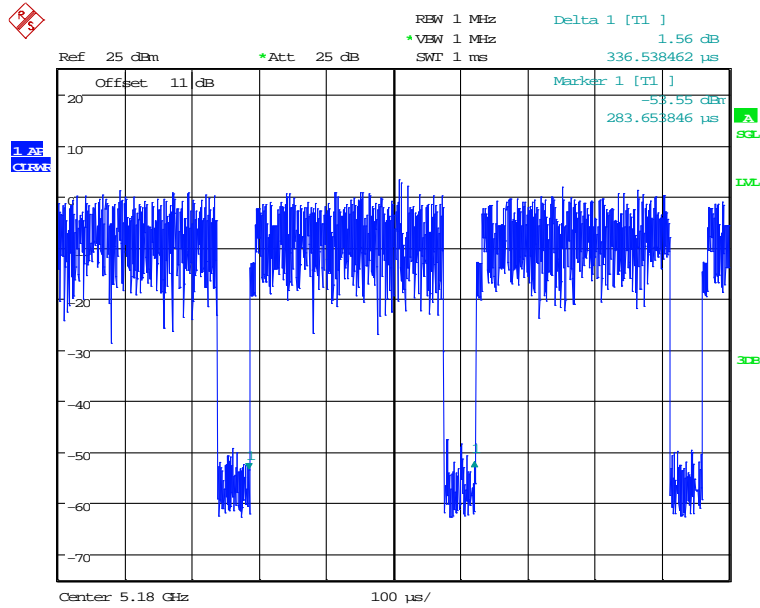
DUTY 802.11A
Date: 4.AUG.2023 12:48:14



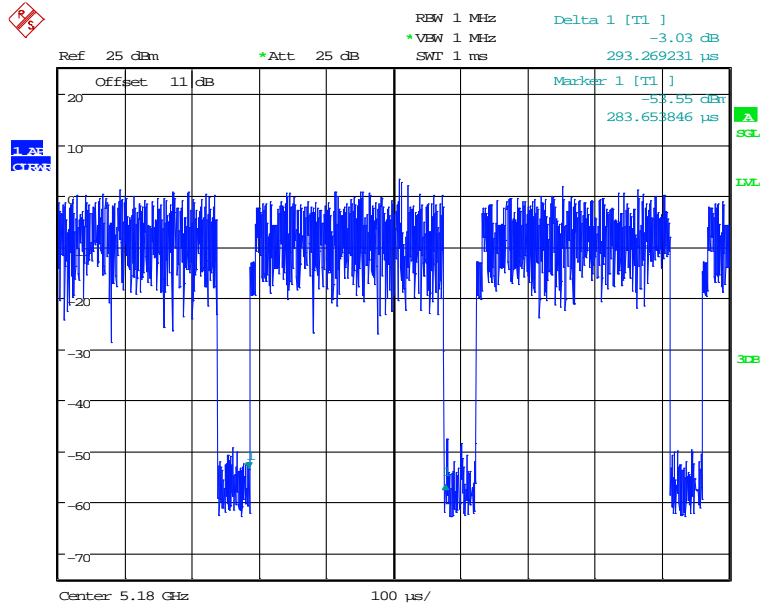
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Registration number: W6M22307-22823-C-2
FCC ID: IR5RK15



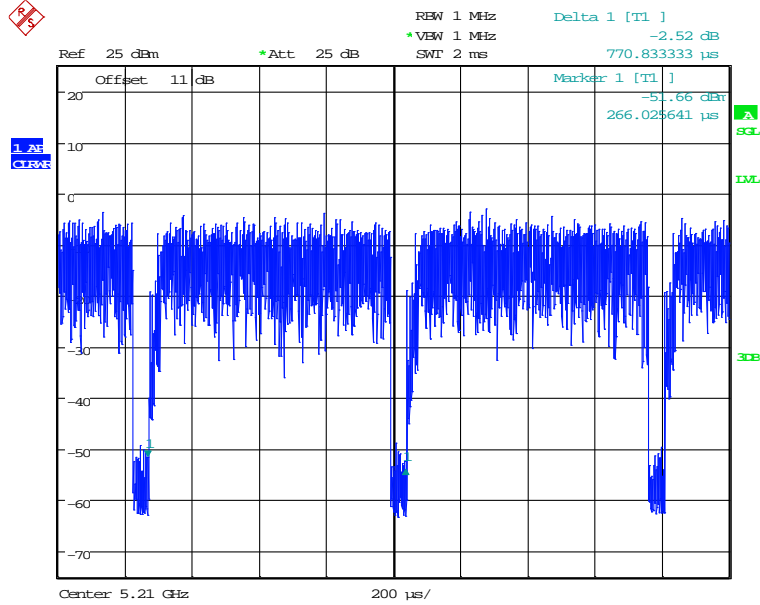
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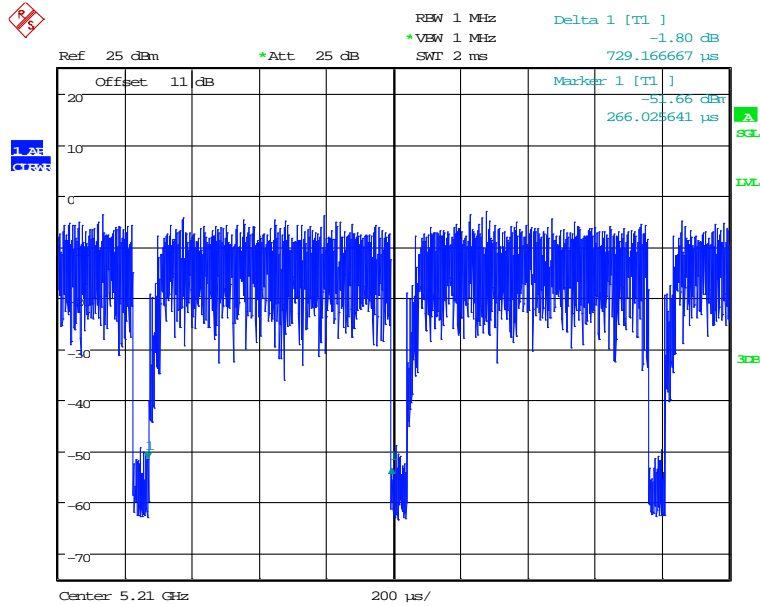
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Registration number: W6M22307-22823-C-2
FCC ID: IR5RK15



DUTY 802.11AX80
Date: 4.AUG.2023 12:51:20



DUTY 802.11AX80
Date: 4.AUG.2023 12:51:28

1.6 Test standards

Technical standard : 47 CFR PART 15 SUBPART C § 15.407 (2021-10)



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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, 1.2A MAX.
 O/P: 19.0V=4.74A, 90.06W)
 Battery 10.8Vd.c.=7500mAh/81Wh

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 : 1.52 dB
Estimation Result of Uncertainty of Radiated Emission(3M) (Undesirable emission limits, Radiated Emissions from Receiver Part)	Expanded Uncertainty : 0.009-30 MHz : 1.92 dB 30-1000 MHz : 3.96 dB 1-18 GHz : 2.46 dB 18-40 GHz : 2.44 dB
Estimation Result of Uncertainty of Bandwidth Measurement (26dB emission bandwidth, 99% Occupied Bandwidth, 6dB emission bandwidth, 99% Occupied Bandwidth)	Expanded Uncertainty : 0.45 kHz
Estimation Result of Uncertainty of Conducted Output Power Measurement (Peak Transmit Power)	Expanded Uncertainty : 1.48 dB
Estimation Result of Uncertainty of Power Density Measurement (Peak Power Spectral Density)	Expanded Uncertainty : 1.48 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 DFS Timing (Dynamic Frequency Selection (DFS), Channel Move Time, Channel Closing Transmission Time)	Expanded Uncertainty : 587.89 us
Estimation Result of Uncertainty of DFS Threshold (Dynamic Frequency Selection (DFS), Channel Move Time, Channel Closing Transmission Time)	Expanded Uncertainty : 1.51 dB

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



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2.3 Test Equipment List

No.	Test equipment	Type	Serial No.	Manufacturer	Cal. Date	Next Cal. Date
ETSTW-CE 001	EMI TEST RECEIVER	ESHS10	842121/013	R&S	2023/6/12	2024/6/11
ETSTW-CE 003	AC POWER SOURCE	APS-9102	D161137	GW	Function Test	
ETSTW-CE 004	ZWEILEITER-V-NETZNACHBILDUNG TWO-LINE V-NETWORK	ESH3-Z5	840731/011	R&S	2022/10/24	2023/10/23
ETSTW-CE 006	IMPULSBEGRENZER PULSE LIMITER	ESH3-Z2	100226	R&S	2022/10/24	2023/10/23
ETSTW-CE 008	HF-EICHLITUNG RF STEP ATTENUATOR 139dB DPSP	334.6010.02	844581/024	R&S	Function Test	
ETSTW-CE 009	TEMP.&HUMIDITY CHAMBER	GTH-225-40-1P-U	MAA0305-009	GIANT FORCE	2023/7/24	2024/7/23
ETSTW-CE 016	TWO-LINE V-NETWORK	ENV216	100050	R&S	2022/11/9	2023/11/8
ETSTW-CE 028	MXE EMI Receiver	N9038A	MY53220110	Agilent	2023/7/17	2024/7/16
ETSTW-RE 003	EMI TEST RECEIVER	ESI 26	831438/001	R&S	2023/6/12	2024/6/11
ETSTW-RE 004	EMI TEST RECEIVER	ESI 40	832427/004	R&S	2022/10/17	2023/10/16
ETSTW-RE 012	TUNABLE BANDREJECT FILTER	D.C 0309	146	K&L	Function Test	
ETSTW-RE 013	TUNABLE BANDREJECT FILTER	D.C 0336	397	K&L	Function Test	
ETSTW-RE 018	MICROWAVE HORN ANTENNA	AT4560	27212	AR	2023/7/21	2024/7/20
ETSTW-RE 019	MICROWAVE HORN ANTENNA	22240-25	121074	FM	2023/6/9	2024/6/8
ETSTW-RE 027	Passive Loop Antenna	6512	00034563	ETS-Lindgren	2023/6/28	2024/6/27
ETSTW-RE 030	Double-Ridged Guide Horn Antenna	3117	00035224	ETS-Lindgren	2023/5/5	2024/5/4
ETSTW-RE 042	Biconical Antenna	HK116	100172	R&S	2023/3/2	2024/3/1
ETSTW-RE 043	Log-Periodic Dipole Antenna	HL223	100166	R&S	2023/7/28	2024/7/27
ETSTW-RE 044	Log-Periodic Antenna	HL050	100094	R&S	2023/7/31	2024/7/30
ETSTW-RE 045	ESA-E SERIES SPECTRUM ANALYZER	E4404B	MY45111242	Agilent	Pre-test Use	
ETSTW-RE 050	Attenuator 10dB	50HF-010-1	None	JFW	2023/2/17	2024/2/16
ETSTW-RE 051	Attenuator 6dB	50HF-006-1	None	JFW	2023/2/17	2024/2/16
ETSTW-RE 053	Attenuator 3dB	50HF-003-1	None	JFW	2023/2/17	2024/2/16
ETSTW-RE 055	SPECTRUM ANALYZER	FSU 26	200074	R&S	2023/3/22	2024/3/21
ETSTW-RE 060	Attenuator 30dB	5015-30	F651012z-01	ATM	2023/2/17	2024/2/16
ETSTW-RE 062	Amplifier Module	CHC 2	None	KMIC	2023/2/20	2024/2/19
ETSTW-RE 064	Bluetooth Test Set	MT8852B-042	6K00005709	Anritsu	Function Test	
ETSTW-RE 069	Double-Ridged Guide Horn Antenna	3117	00069377	ETS-Lindgren	Function Test	
ETSTW-RE 072	CELL SITE TEST SET	8921A	3339A00375	HP	2022/11/5	2023/11/4
ETSTW-RE 088	SOLID STATE AMPLIFIER	KMA180265A01	99057	KMIC	2023/9/15	2024/9/14
ETSTW-RE 091	Match Pad	MDCS1500	None	WOKEN	2023/5/25	2024/5/24
ETSTW-RE 099	DC Block	50DB-007-1	None	JFW	2023/2/17	2024/2/16
ETSTW-RE 112	AC POWER SOURCE	TFC-1005	T-0A023536	T-Power	Function test	



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ETSTW-RE 115	2.4GHz Notch Filter	N0124411	473874	MICROWAVE CIRCUITS	2023/1/4	2024/1/3
ETSTW-RE 120	RF Player	MP9200	MP9210-111022	ADIVIC	2022/11/8	2023/11/7
ETSTW-RE 122	SIGNAL GENERATOR	SMF100A	102149	R&S	2023/6/7	2024/6/6
ETSTW-RE 125	5GHz Notch filter	5NSL11-5200/E221.3-O/O	1	K&L Microwave	2023/8/4	2024/8/3
ETSTW-RE 126	5GHz Notch filter	5NSL12-5800/E221.3-O/O	1	K&L Microwave	2023/8/4	2024/8/3
ETSTW-RE 127	RF Switch Box	RFS-01	None	WTS	2023/2/17	2024/2/16
ETSTW-RE 128	5.3GHz Notch filter	N0153001	SN487233	Microwave Circuits	2023/8/4	2024/8/3
ETSTW-RE 129	5.5GHz Notch filter	N0555984	SN487234	Microwave Circuits	2023/8/4	2024/8/3
ETSTW-RE 130	Handheld RF Spectrum Analyzer	N9340A	CN0147000204	Agilent	Pre-test Use	
ETSTW-RE 142	Amplifier	8447D	2805A03378	Agilent	2023/2/20	2024/2/19
ETSTW-RE 146	Preamplifier	JPA-10MIG	15090004	JPT	2023/5/26	2024/5/25
ETSTW-RE 152	Bi-log Hybrid Antenna	MCTD 2786B	BLB20J04029	ETC	2023/3/21	2024/3/20
ETSTW-RE 153	Signal Analyzer	FSV40	101929	R&S	2022/10/3	2023/10/2
ETSTW-RE 159	Bi-log Hybrid Antenna (30M~1000 MHz)	MCTD 2786B	BLB21N04035	ETC	2022/12/22	2023/12/21
ETSTW-RE 177	TRILOG Broadband Antenna	VULB 9168&EMCI-N-6-06	01380&AT-06007	SCHWARZBECK&EMC	2023/8/24	2024/8/23
ETSTW-RF 002	Electromagnetic field probe	LF-30	K-0007	STT	2023/6/13	2024/6/12
ETSTW-EMI 011	USB Compact Modulator	SFC-U	101689	R&S	2023/5/28	2024/5/27
ETSTW-GSM 002	Universal Radio Communication Tester	CMU 200	109439	R&S	2023/3/22	2024/3/21
ETSTW-GSM 003	Radio Communication Analyzer	MT8820C	6201342073	Anritsu	2023/5/10	2024/5/9
ETSTW-GSM 004	Wideband Radio Communication Tester	CMW500	128092	R&S	2022/10/24	2023/10/23
ETSTW-GSM 019	Band Reject Filter	WRCTF824/849-822/851-40 /12+9SS	3	WI	2023/1/4	2024/1/3
ETSTW-GSM 020	Band Reject Filter	WRCD1747/1748-1743/1752-32/5SS	1	WI	2023/1/4	2024/1/3
ETSTW-GSM 021	Band Reject Filter	WRCD1879.5/1880.5-1875.5/1884.5-32/5SS	3	WI	2023/1/4	2024/1/3
ETSTW-GSM 022	Band Reject Filter	WRCT901.9/903.1-904.25-50/8SS	1	WI	2023/1/4	2024/1/3
ETSTW-GSM 023	Power Divider	4901.19.A	None	SUHNER	2023/8/28	2024/8/27
ETSTW-GSM 024	Radio Communication Analyzer	MT8821C	None	Anritsu	2023/4/24	2024/4/23
ETSTW-GSM 025	Band Reject Filter	BRM19835	001	Micro-Tronics	2023/8/4	2024/8/3
ETSTW-Cable 016	BNC Cable	Switch Box	B Cable 1	Schwarz beck	2023/2/4	2024/2/3
ETSTW-Cable 017	BNC Cable	X Cable	B Cable 2	Schwarz beck	2023/2/4	2024/2/3
ETSTW-Cable 018	BNC Cable	Y Cable	B Cable 3	Schwarz beck	2023/2/4	2024/2/3
ETSTW-Cable 019	BNC Cable	Z Cable	B Cable 4	Schwarz beck	2023/2/4	2024/2/3
ETSTW-Cable 020	N TYPE Cable	OATS Cable 1	N30N30-L335-15M	JYE BAO CO.,LTD.	2023/6/26	2024/6/25
ETSTW-Cable 027	Microwave Cable	SUCOFLEX 104	279083	HUBER+SUHNER	2023/4/27	2024/4/26
ETSTW-Cable 028	Microwave Cable	FA147A0015M2020	30064-2	UTIFLEX	2023/9/15	2024/9/14
ETSTW-Cable 029	Microwave Cable	FA147A0015M2020	30064-3	UTIFLEX	2023/9/15	2024/9/14
ETSTW-Cable 030	Microwave Cable	SUCOFLEX 104 (S_Cable 9)	279067	HUBER+SUHNER	2023/02/17	2024/2/16



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ETSTW-Cable 045	Microwave Cable	SUCOFLEX 104	325536	HUBER+SUHNER	2022/10/21	2023/10/20
ETSTW-Cable 058	Microwave Cable	SUCOFLEX 104	none	HUBER+SUHNER	2023/5/26	2024/5/25
ETSTW-Cable 064	Microwave Cable	SUCOFLEX 104	MY28891	HUBER+SUHNER	2023/2/20	2024/2/19
ETSTW-Cable 071	N TYPE CABLE	EMCCFD400-NM-NM-25000	170239	EMCI	2022/10/21	2023/10/20
ETSTW-Cable 072	SMA type cable (8m)	SUCOFLEX 104	805800/4	HUBER+SUHNER	2023/2/20	2024/2/19
ETSTW-Cable 074	SMA type cable (2m)	SUCOFLEX 104	802563/4	HUBER+SUHNER	2023/2/20	2024/2/19
ETSTW-Cable 076	SMA type cable (1m)	N/A	812652/4	HUBER+SUHNER	2023/2/20	2024/2/19
WTSTW-SW 002	EMI TEST SOFTWARE	EZ EMC	None	Farad	Version ETS-03A1 Version EMEC-3A1+	
WTSTW-SW 006	EMI TEST SOFTWARE	e3	None	AUDIX	Version 9.161014	
WTSTW-SW 008	Signal studio	Agilent	None	AUDIX	Version 2.0.0.1	
ETSTW-TH 002	Thermohygrometer	608-H1	45204317	Testo	2023/7/21	2024/7/20
ETSTW-TH 003	Wireless weather station	GAIA	N/A	TFA	2022/10/28	2023/10/27



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2.4 Test Procedure

The test procedures are performed following the test stands ANSI STANDARD C63.10 and FCC 789033 D02 General UNII Test Procedures New Rules v01r04.

■ Minimum Emission Bandwidth for the band 5.150-5.250 GHz, 5.725-5.850 GHz

Section 15.407(e) specifies the minimum 6 dB emission bandwidth of at least 500 KHz for the band 5.715-5.85 GHz. The following procedure shall be used for measuring this bandwidth:

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

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.



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■ Maximum conducted output power

- (i) Set span to encompass the entire emission bandwidth (EBW) (or, alternatively, the entire 99% occupied bandwidth) of the signal.
- (ii) Set RBW = 1 MHz.
- (iii) Set VBW ≥ 3 MHz.
- (iv) Number of points in sweep \geq Span / RBW. (This ensures that bin-to-bin spacing is \leq RBW/2, so that narrowband signals are not lost between frequency bins.)
- (v) Sweep time = auto.
- (vi) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.
- (vii) If transmit duty cycle < 98 percent, use a video trigger with the trigger level set to enable triggering only on full power pulses. Transmitter must operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle ≥ 98 percent, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to “free run”.
- (viii) Trace average at least 100 traces in power averaging (i.e., RMS) mode.
- (ix) 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 spectrum.

■ 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 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



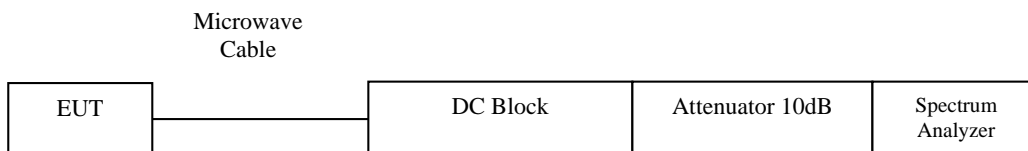
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a narrower RBW may need to be used. The rules permit the use of a RBWs less than 1 MHz, or 500 kHz, “provided that the measured power is integrated over the full reference bandwidth” to show the total power over the specified measurement bandwidth (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 ≥ 3 RBW.
- c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add $10\log(500\text{kHz}/\text{RBW})$ to the measured result, whereas RBW (< 500 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 $10\log(1\text{MHz}/\text{RBW})$ to the measured result, whereas RBW (< 1 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 kHz is available on nearly all spectrum analyzers.

Conducted measurement test setup





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3 Test results (enclosure)

Test case	Para. Number	Required	Test passed	Test failed
Peak Transmit Power	15.407(a)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6-dB emission bandwidth	15.407(a)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
26-dB emission bandwidth	15.407(a)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
99 % Occupied Bandwidth	789033 D02 General U-NII Test Procedures New Rules v02r01	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Peak Power Spectral Density	15.407(a)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Undesirable emission limits	15.407(b)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Radio Frequency Exposure	15.407(f)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Transmit Power Control	15.407(h)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Dynamic Frequency Selection (DFS)	15.407(h)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
UNII Detection Bandwidth	905462 D02 UNII DFS Compliance Procedures New Rules v02 – 7.8.1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Initial Channel Availability Check Time	905462 D02 UNII DFS Compliance Procedures New Rules v02 – 7.8.2.1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Radar Burst at the Beginning of the Channel Availability Check Time	905462 D02 UNII DFS Compliance Procedures New Rules v02 – 7.8.2.2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Radar Burst at the End of the Channel Availability Check Time	905462 D02 UNII DFS Compliance Procedures New Rules v02 – 7.8.2.3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
In-Service Monitoring for Channel Move Time, Channel Closing Transmission Time and Non-Occupancy Period	905462 D02 UNII DFS Compliance Procedures New Rules v02 – 7.8.3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Statistical Performance Check	905462 D02 UNII DFS Compliance Procedures New Rules v02 – 7.8.4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Radiated Emission from Receiver Part	15.109	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
AC Conducted Emissions	15.207	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

The following is intentionally left blank.



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3.1 Peak Transmit Power, FCC 15.407 (a)

According to §15.407(a)

1. For the band 5.15-5.25 GHz, the maximum conducted power over the frequency of operation shall not exceed the lesser of 30 dBm (1 W) for master device and 24 dBm (250 mW) for mobile/portable client device.
2. For the band 5.25-5.35 GHz and 5.47-5.725 GHz, the maximum conducted power over the frequency of operation shall not exceed the lesser of 24 dBm (250 mW) or $11\text{dBm} + 10 \log B$, whichever is lower (B= 26-dB emission BW).
3. For the band 5.725-5.850 GHz, the maximum conducted power over the frequency of operation shall not exceed the lesser of 30 dBm (1 W).

Test date: August 02, 2023-August 05, 2023

Temperature: 26.7°C

Humidity: 57.0 %

Tester: Brain



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Band	Mode	Channel	RU(AX)	Conducted power with DF		Combine (dBm)	DF (dB)	Limit (dBm)	
				Antenna 1 (dBm)	Antenna 2 (dBm)				
NII-1	802.11a	Ch 36 : 5180 MHz		9.73	6.11	-	0.84	24.00	
		Ch 44 : 5220 MHz		9.85	5.78	-	0.84	24.00	
		Ch 48 : 5240 MHz		9.59	4.91	-	0.84	24.00	
	802.11ax 20M	Ch 36 : 5180 MHz	26RU1	2.86	-1.75	4.15	0.59	24.00	
			26RU9	2.49	-0.18	4.37	0.59	24.00	
			52RU1	6.02	1.72	7.40	0.59	24.00	
			52RU4	5.63	2.94	7.51	0.59	24.00	
			106RU1	9.30	5.02	10.68	0.59	24.00	
			106RU2	9.03	6.04	10.80	0.59	24.00	
			242RU1	9.63	5.80	11.14	0.59	24.00	
		Ch 44 : 5220 MHz	26RU1	2.54	-1.32	4.04	0.59	24.00	
			26RU9	2.72	-0.59	4.39	0.59	24.00	
			52RU1	5.70	2.38	7.36	0.59	24.00	
			52RU4	5.85	2.57	7.53	0.59	24.00	
			106RU1	9.01	5.72	10.68	0.59	24.00	
			106RU2	9.16	5.76	10.80	0.59	24.00	
			242RU1	9.80	6.13	11.36	0.59	24.00	
		Ch 48 : 5240 MHz	26RU1	2.14	-0.21	4.14	0.59	24.00	
			26RU9	2.93	-1.19	4.36	0.59	24.00	
			52RU1	5.56	3.03	7.49	0.59	24.00	
			52RU4	6.06	2.21	7.56	0.59	24.00	
			106RU1	8.87	6.09	10.71	0.59	24.00	
			106RU2	9.26	5.18	10.70	0.59	24.00	
			242RU1	9.72	5.91	11.24	0.59	24.00	
		802.11ax 40M	Ch 38 : 5190 MHz	26RU1	3.06	-0.47	4.66	0.49	24.00
				26RU18	2.99	-0.75	4.52	0.49	24.00
				52RU1	6.13	2.52	7.70	0.49	24.00
				52RU8	6.07	2.30	7.59	0.49	24.00
				106RU1	9.20	5.40	10.71	0.49	24.00
				106RU4	9.22	5.38	10.72	0.49	24.00
242RU1	9.67			5.49	11.08	0.49	24.00		
242RU2	9.68			5.58	11.11	0.49	24.00		
484RU1	9.85			6.34	11.45	0.49	24.00		



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802.11ax 80M	Ch 46 : 5230 MHz	26RU1	3.03	-0.49	4.63	0.49	24.00
		26RU18	2.97	-0.83	4.48	0.49	24.00
		52RU1	6.04	2.69	7.69	0.49	24.00
		52RU8	5.96	2.47	7.57	0.49	24.00
		106RU1	9.11	5.88	10.80	0.49	24.00
		106RU4	9.05	5.65	10.69	0.49	24.00
		242RU1	9.72	6.29	11.35	0.49	24.00
		242RU2	9.66	6.04	11.23	0.49	24.00
		484RU1	9.86	6.39	11.47	0.49	24.00
	Ch 42 : 5210 MHz	26RU1	3.40	-0.96	4.75	0.24	24.00
		26RU37	3.60	-2.58	4.54	0.24	24.00
		52RU1	6.39	1.63	7.64	0.24	24.00
		52RU16	6.50	1.22	7.63	0.24	24.00
		106RU1	9.52	4.80	10.78	0.24	24.00
		106RU8	9.58	4.44	10.74	0.24	24.00
		242RU1	9.97	5.36	11.26	0.24	24.00
		242RU4	10.20	4.94	11.33	0.24	24.00
		484RU1	10.12	5.45	11.39	0.24	24.00
		484RU2	10.37	5.18	11.52	0.24	24.00
966RU1	10.54	5.60	11.75	0.24	24.00		



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NII-3	802.11a	Ch 149 : 5745 MHz		9.53	5.31	-	0.84	30.00		
		Ch 157 : 5785 MHz		9.84	5.15	-	0.84	30.00		
		Ch 165 : 5825 MHz		9.91	5.66	-	0.84	30.00		
	802.11ax 20M	Ch 149 : 5745 MHz	26RU1		8.78	6.82	10.92	0.59	30.00	
			26RU9		9.53	6.33	11.23	0.59	30.00	
			52RU1		9.14	7.13	11.27	0.59	30.00	
			52RU4		9.78	6.75	11.54	0.59	30.00	
			106RU1		9.96	6.87	11.70	0.59	30.00	
			106RU2		10.33	6.60	11.87	0.59	30.00	
			242RU1		10.14	6.67	11.76	0.59	30.00	
		Ch 157 : 5785 MHz	26RU1		9.52	5.21	10.89	0.59	30.00	
			26RU9		9.32	5.48	10.83	0.59	30.00	
			52RU1		9.79	5.71	11.23	0.59	30.00	
			52RU4		9.59	5.99	11.17	0.59	30.00	
			106RU1		10.44	6.33	11.87	0.59	30.00	
			106RU2		10.37	6.49	11.86	0.59	30.00	
			242RU1		10.41	6.38	11.86	0.59	30.00	
		Ch 165 : 5825 MHz	26RU1		9.74	4.87	10.97	0.59	30.00	
			26RU9		9.42	6.75	11.30	0.59	30.00	
			52RU1		9.97	5.50	11.30	0.59	30.00	
			52RU4		9.70	6.78	11.50	0.59	30.00	
			106RU1		10.65	6.10	11.96	0.59	30.00	
			106RU2		10.49	7.13	12.14	0.59	30.00	
			242RU1		10.58	6.59	12.04	0.59	30.00	
		802.11ax 40M	Ch 151 : 5755 MHz	26RU1		9.16	6.92	11.19	0.49	30.00
				26RU18		9.25	6.93	11.25	0.49	30.00
				52RU1		9.41	7.07	11.41	0.49	30.00
	52RU8				9.49	7.08	11.46	0.49	30.00	
	106RU1				10.03	7.59	11.99	0.49	30.00	
	106RU4				10.09	7.63	12.04	0.49	30.00	
	242RU1				9.50	6.96	11.42	0.49	30.00	
	242RU2				10.14	7.53	12.04	0.49	30.00	
	484RU1			9.69	7.10	11.60	0.49	30.00		
	Ch 159 : 5795 MHz		26RU1		9.47	6.68	11.31	0.49	30.00	
			26RU18		9.60	6.71	11.40	0.49	30.00	
			52RU1		9.70	6.82	11.51	0.49	30.00	
			52RU8		9.83	6.85	11.60	0.49	30.00	
			106RU1		10.29	7.36	12.08	0.49	30.00	
			106RU4		10.46	7.29	12.17	0.49	30.00	
		242RU1		10.34	7.28	12.09	0.49	30.00		
	242RU2		10.48	7.10	12.12	0.49	30.00			
	484RU1		10.14	6.87	11.82	0.49	30.00			
	802.11ax 80M	Ch 155 : 5775 MHz	26RU1		9.15	5.47	10.70	0.24	30.00	
			26RU37		9.49	6.15	11.14	0.24	30.00	
			52RU1		9.35	5.78	10.93	0.24	30.00	
			52RU16		9.74	5.93	11.25	0.24	30.00	
			106RU1		10.07	6.16	11.55	0.24	30.00	
106RU8				10.46	6.19	11.84	0.24	30.00		
242RU1				9.73	5.37	11.08	0.24	30.00		
242RU4				10.03	5.28	11.28	0.24	30.00		
484RU1				9.56	5.38	10.96	0.24	30.00		
484RU2				9.72	5.29	11.05	0.24	30.00		
966RU1		10.25	5.61	11.53	0.24	30.00				

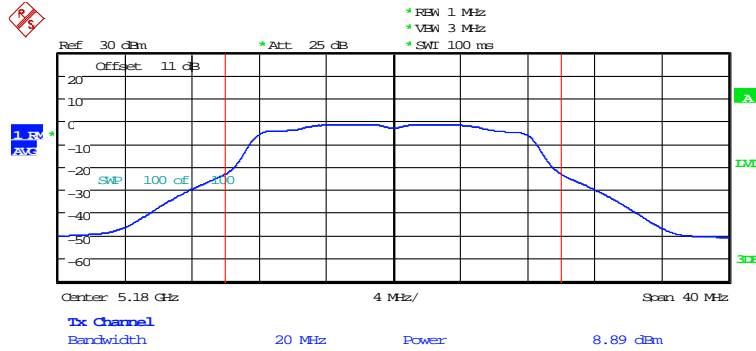


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MAIN antenna

5.15 GHz ~ 5.25 GHz

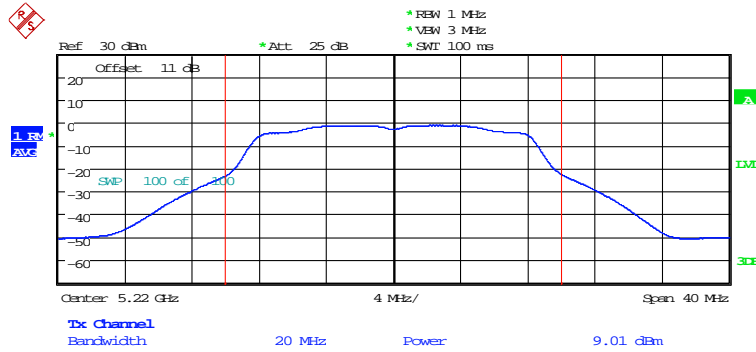


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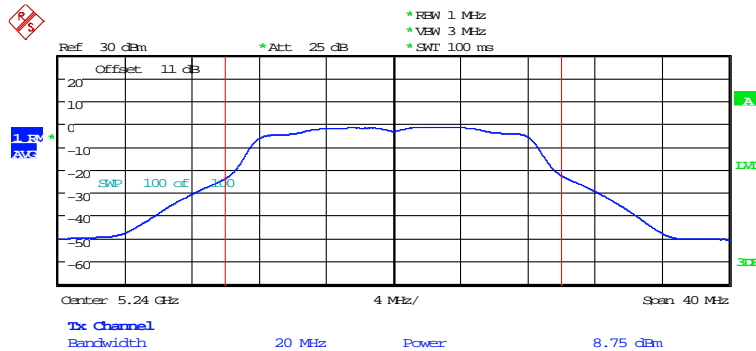
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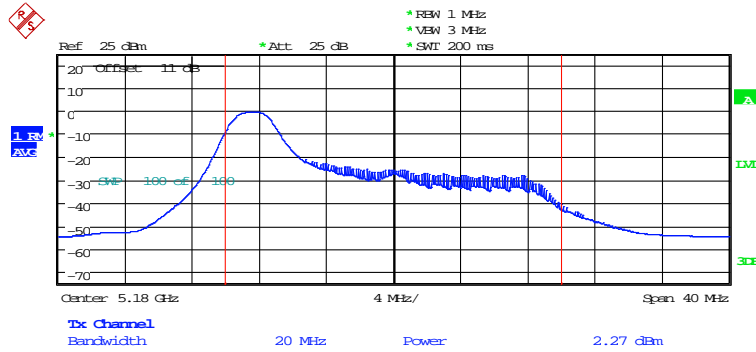
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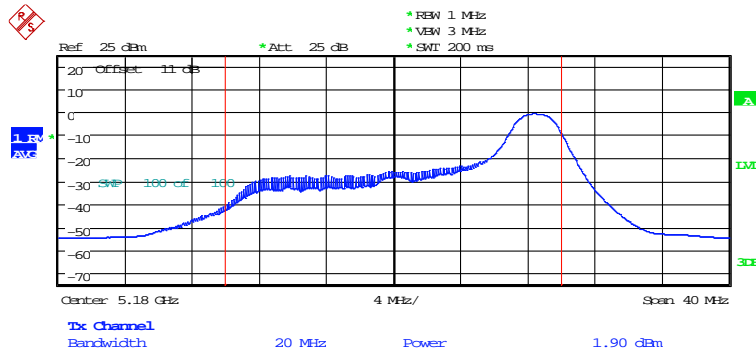
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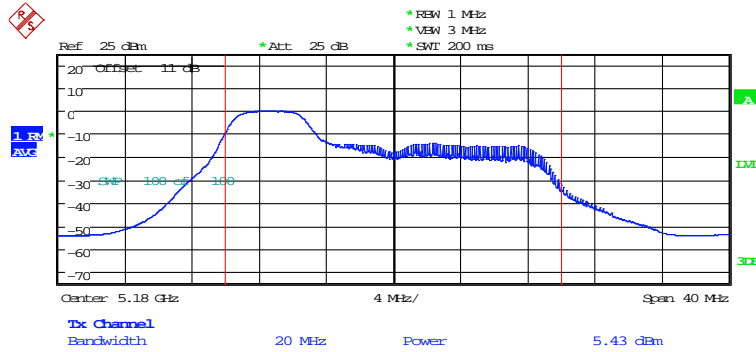
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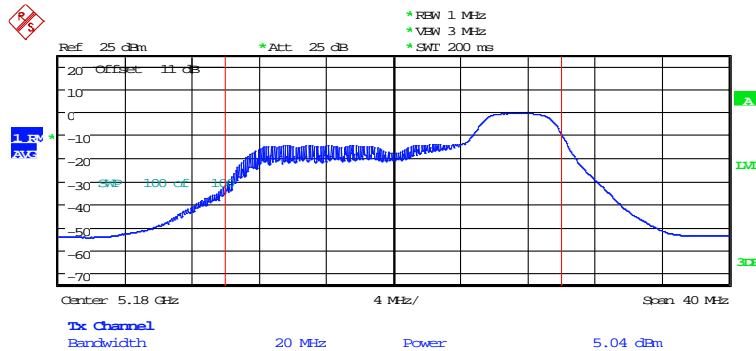
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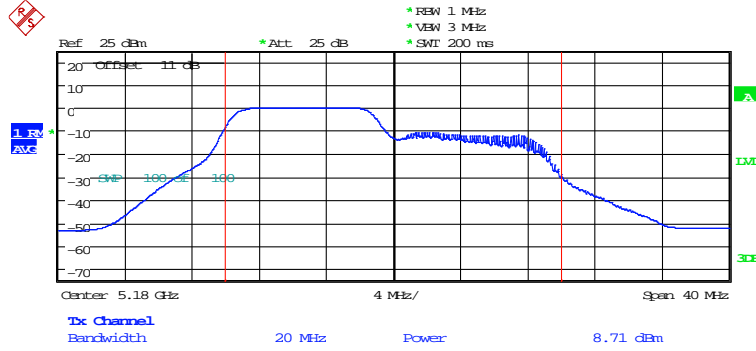
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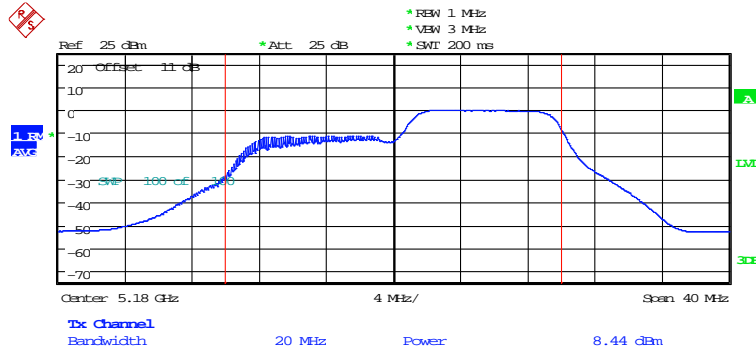
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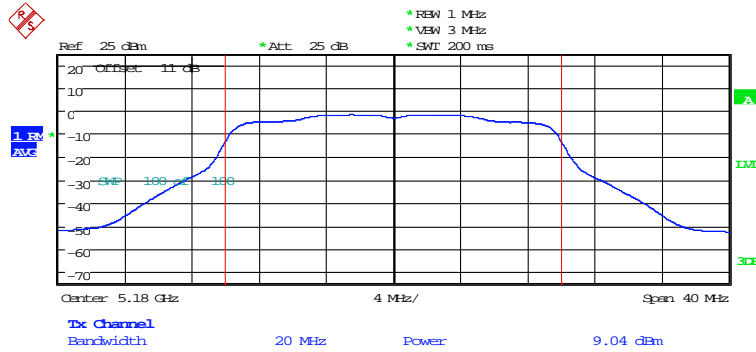
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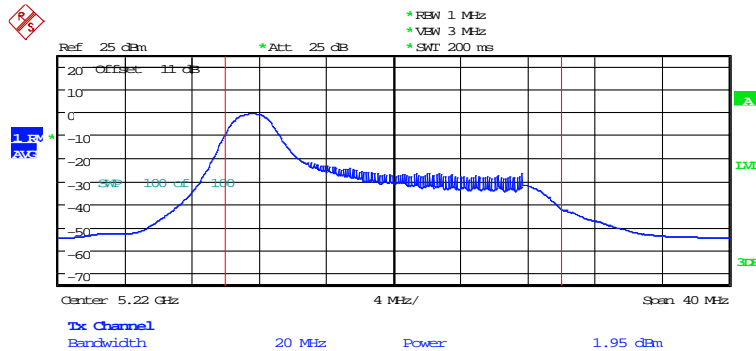
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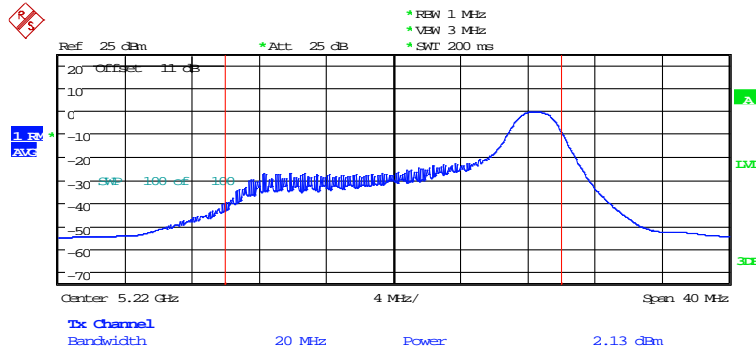
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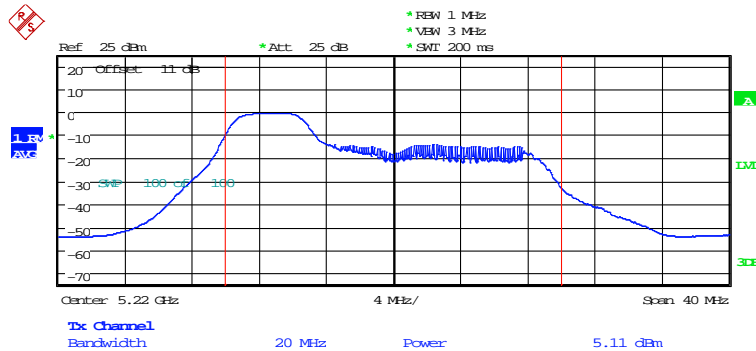
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Registration number: W6M22307-22823-C-2
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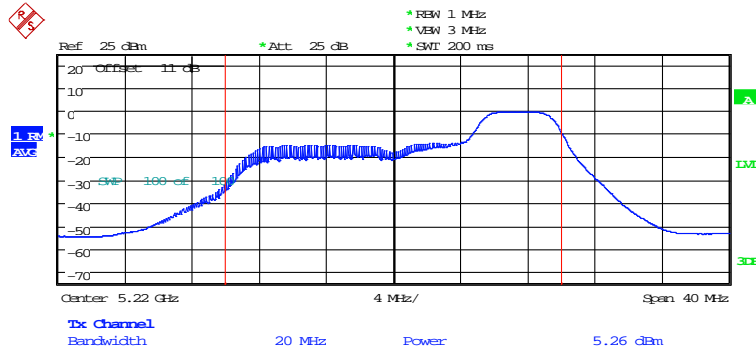
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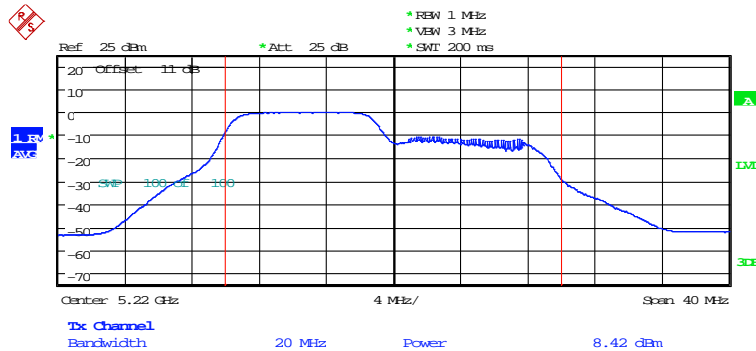
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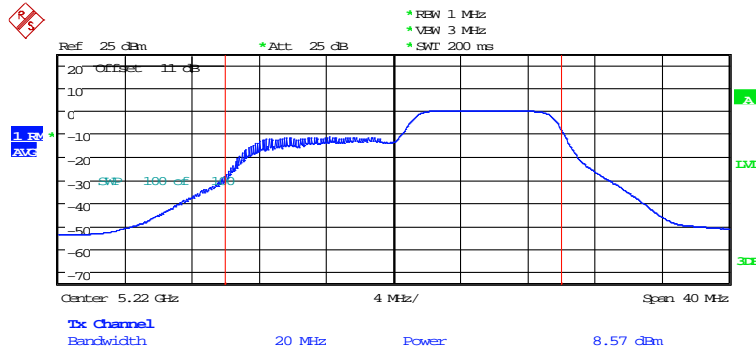
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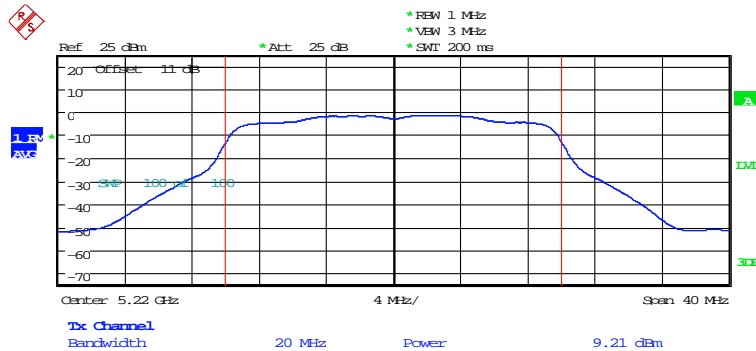
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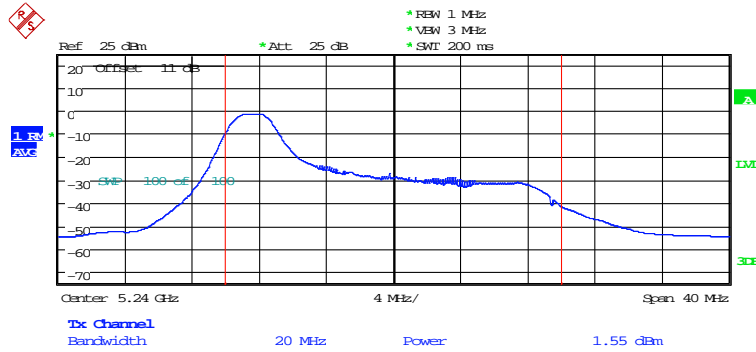
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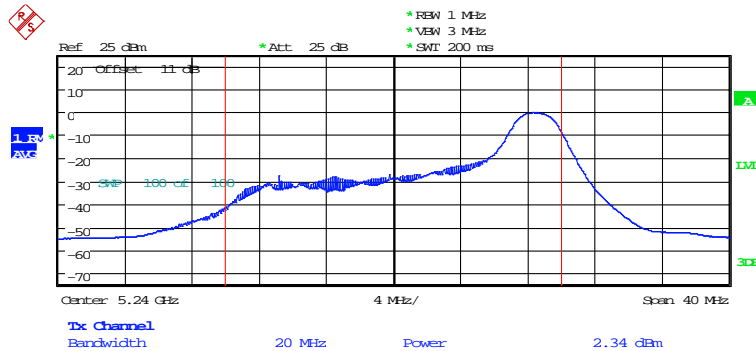
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Date: 4.AUG.2023 18:23:15



Registration number: W6M22307-22823-C-2
 FCC ID: IR5RK15



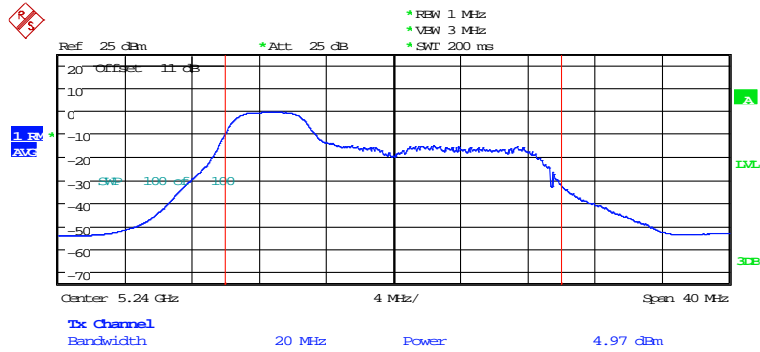
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 Date: 4.AUG.2023 18:24:12



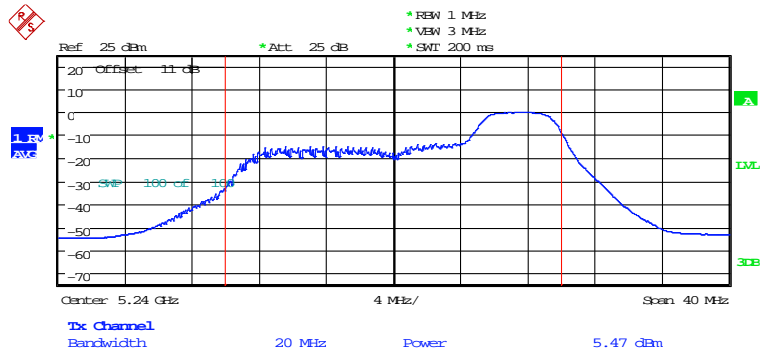
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 Date: 4.AUG.2023 18:24:40



Registration number: W6M22307-22823-C-2
 FCC ID: IR5RK15



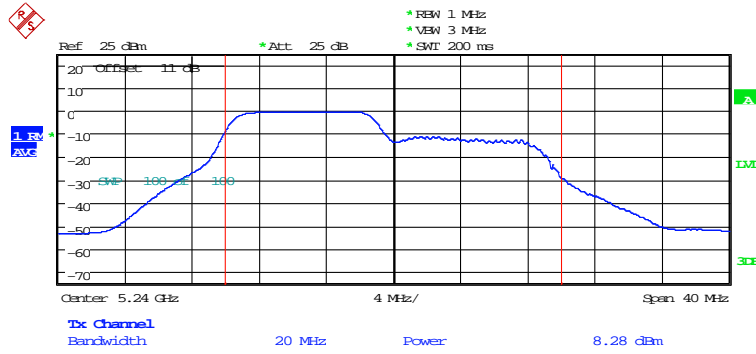
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 Date: 4.AUG.2023 18:25:10



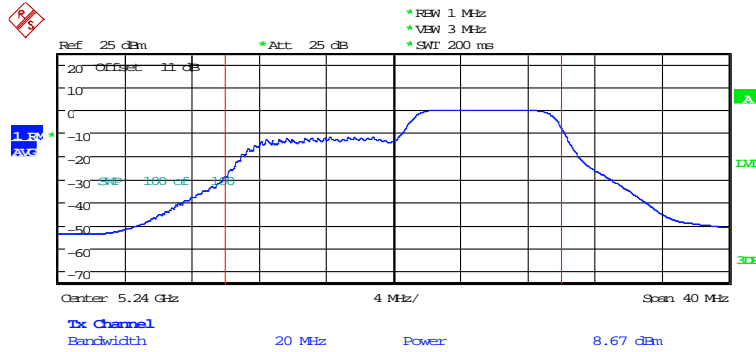
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 Date: 4.AUG.2023 18:25:42



Registration number: W6M22307-22823-C-2
 FCC ID: IR5RK15



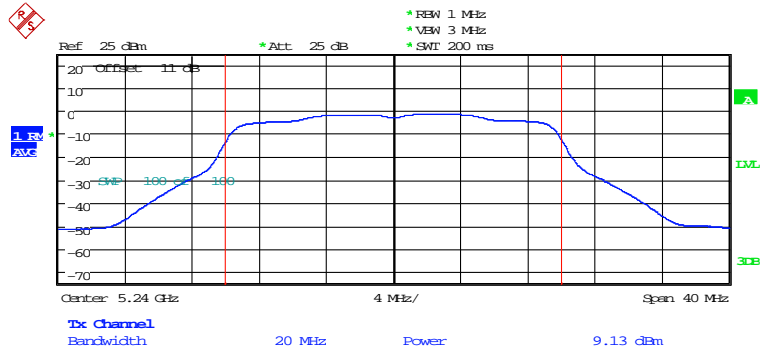
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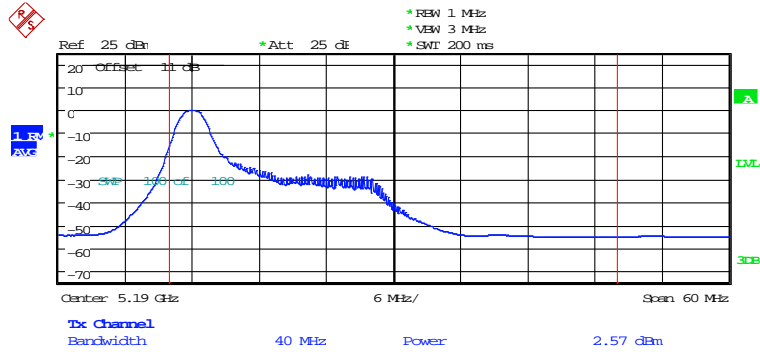
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 Date: 4.AUG.2023 18:26:48



Registration number: W6M22307-22823-C-2
FCC ID: IR5RK15



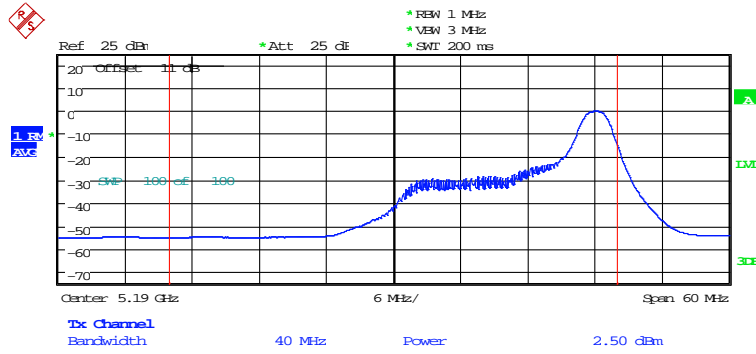
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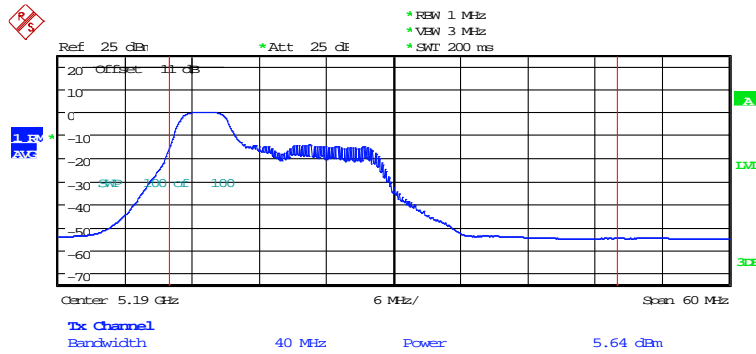
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Date: 4.AUG.2023 18:54:12



Registration number: W6M22307-22823-C-2
 FCC ID: IR5RK15



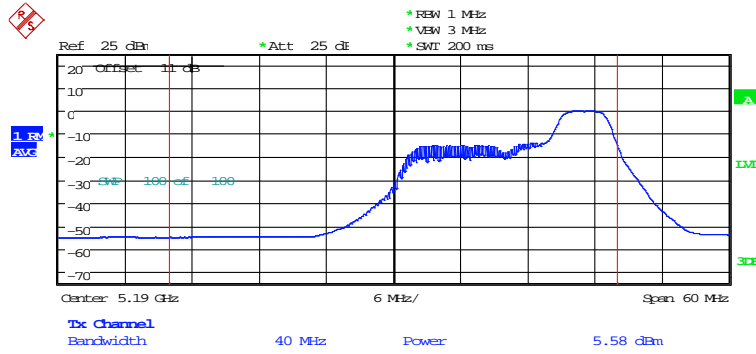
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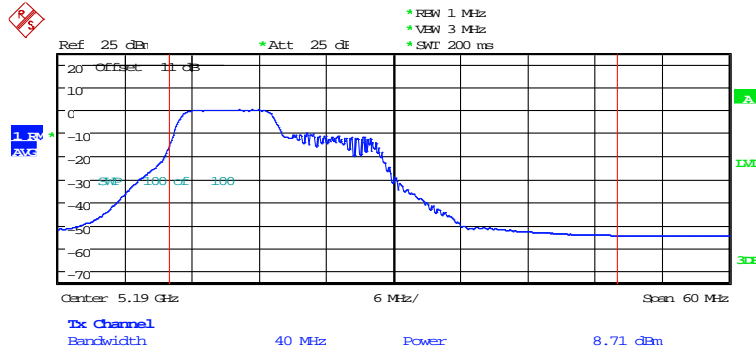
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Registration number: W6M22307-22823-C-2
FCC ID: IR5RK15



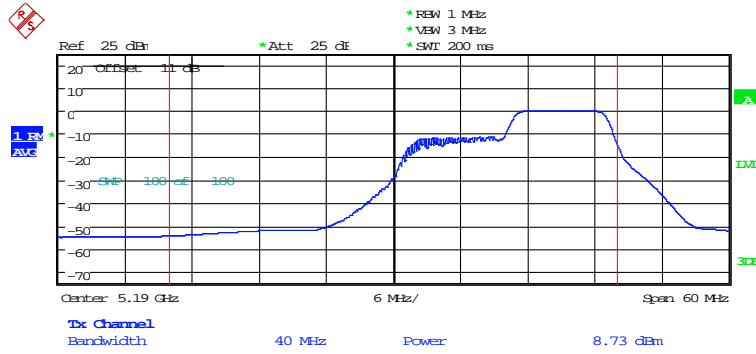
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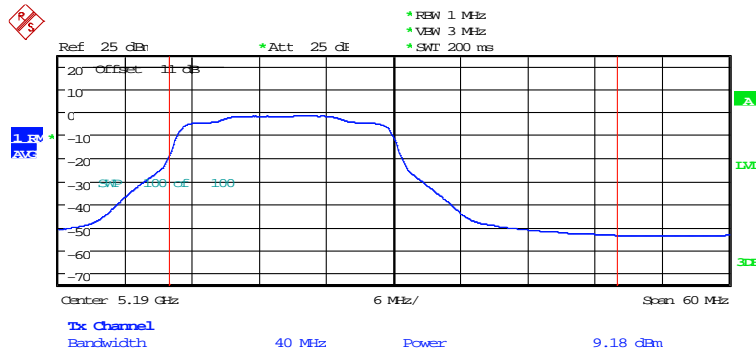
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Registration number: W6M22307-22823-C-2
 FCC ID: IR5RK15



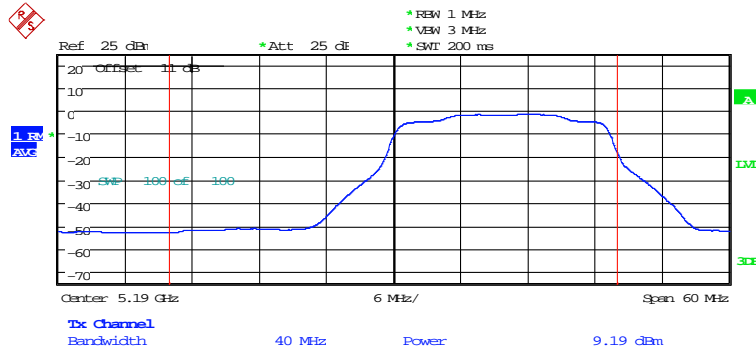
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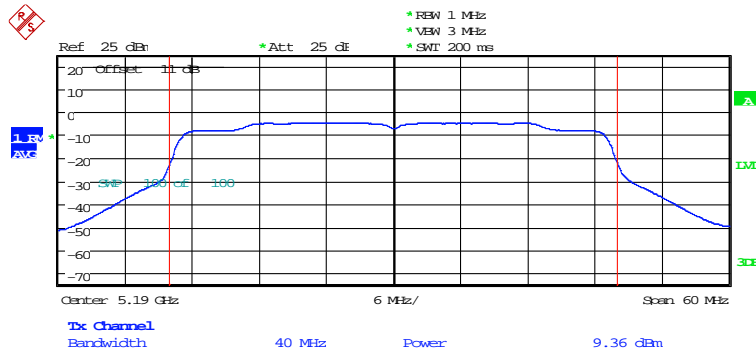
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 FCC ID: IR5RK15



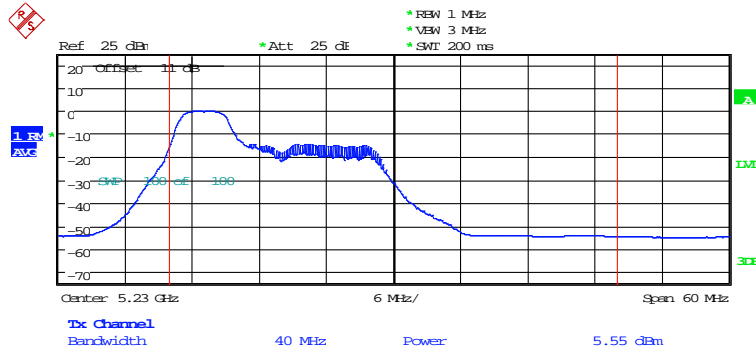
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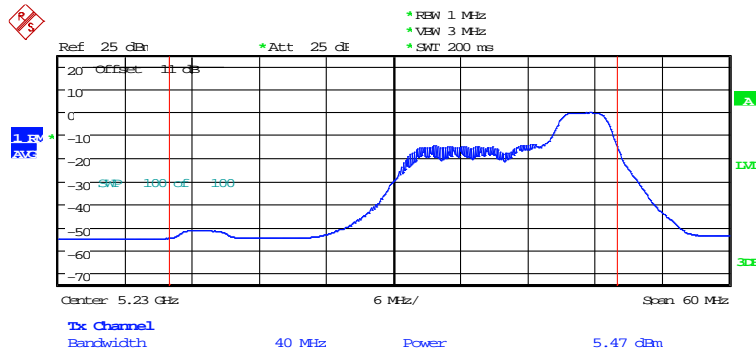
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FCC ID: IR5RK15



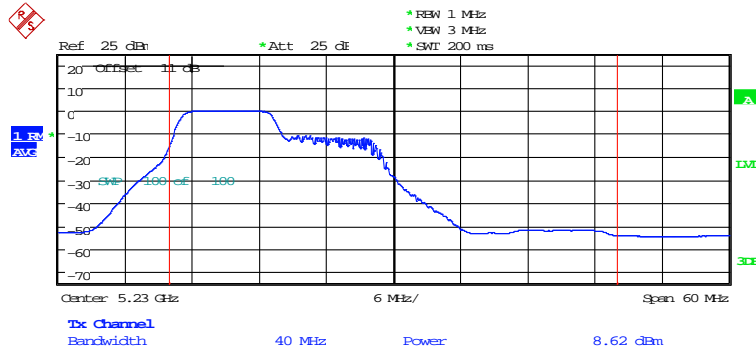
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Date: 4.AUG.2023 19:01:13



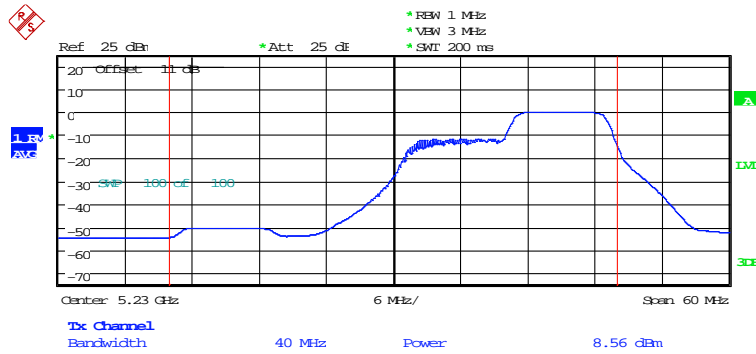
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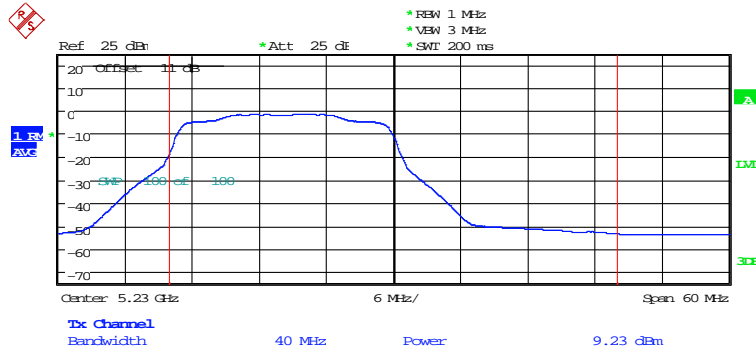
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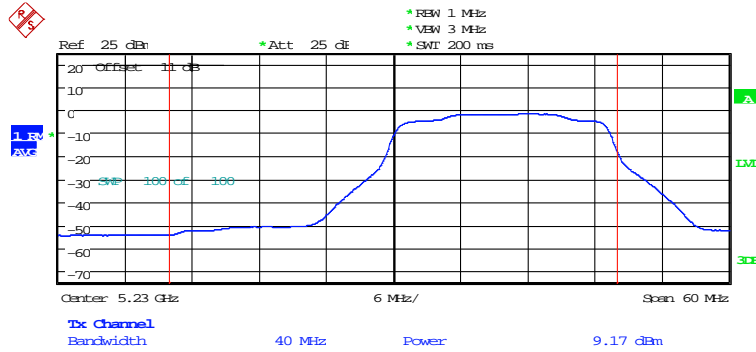
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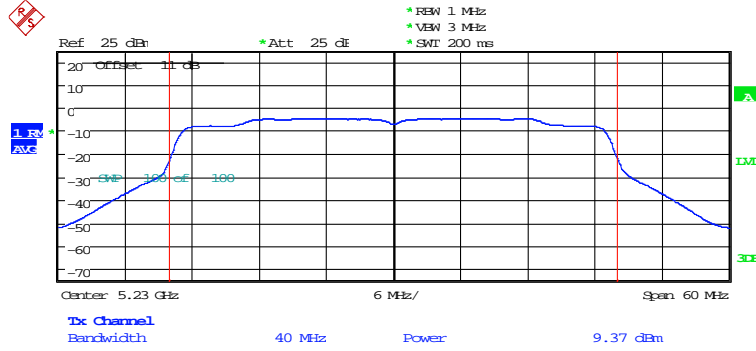
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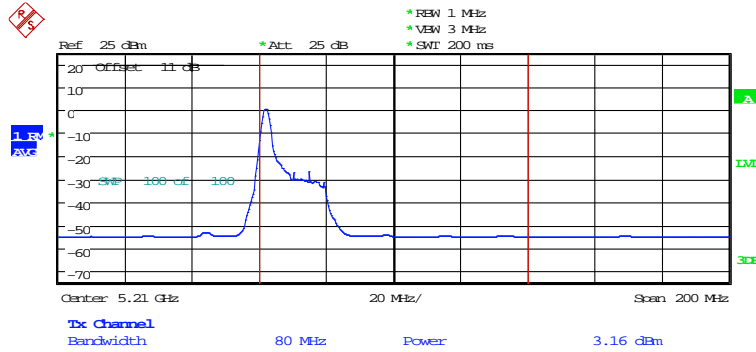
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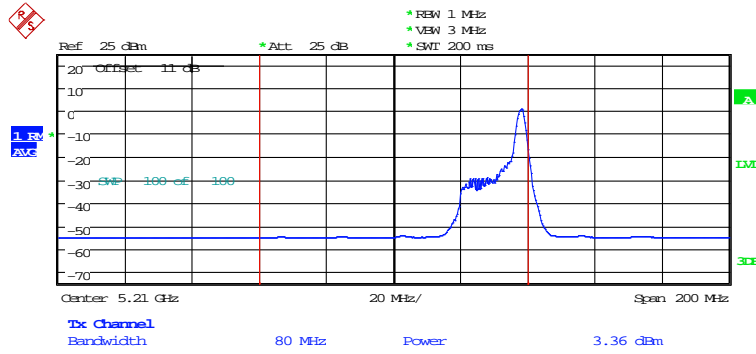
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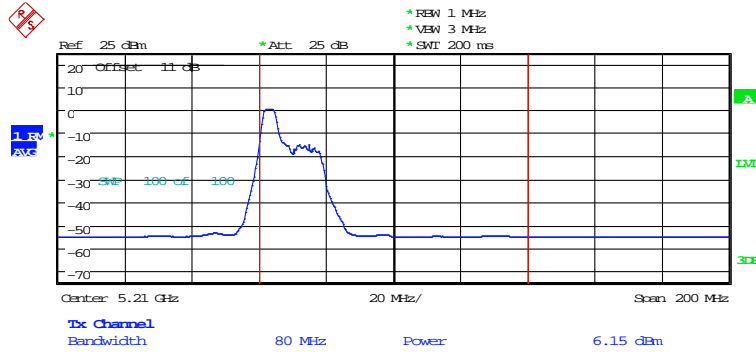
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 Date: 5.AUG.2023 14:17:25



Registration number: W6M22307-22823-C-2
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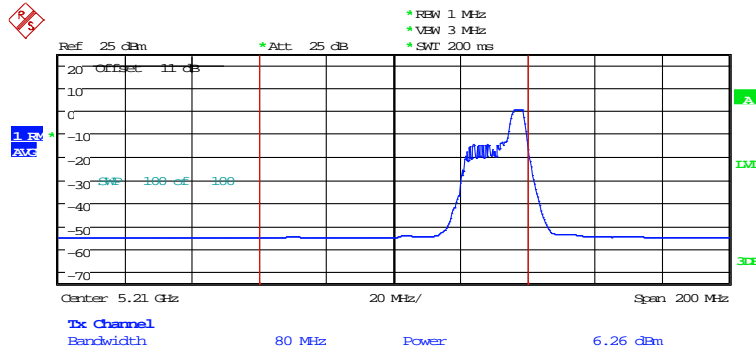
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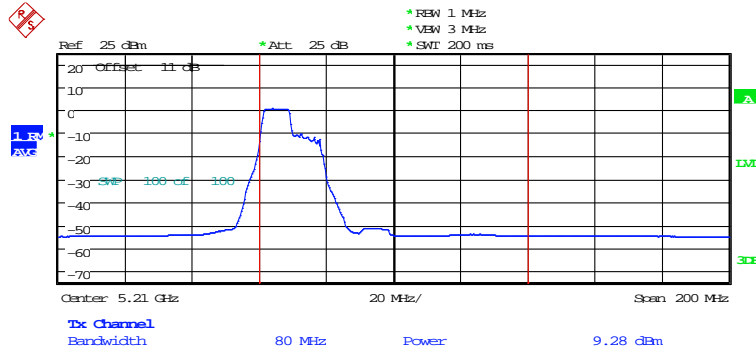
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Registration number: W6M22307-22823-C-2
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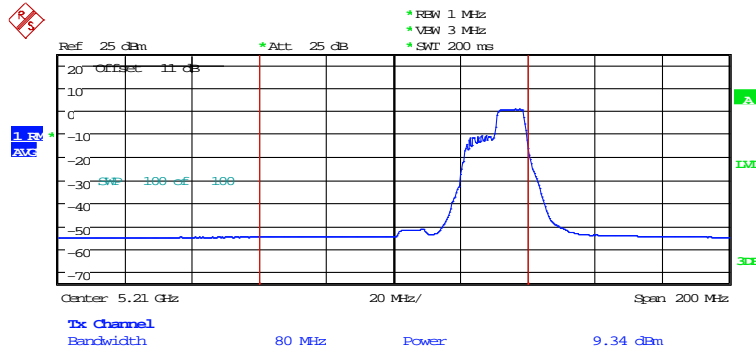
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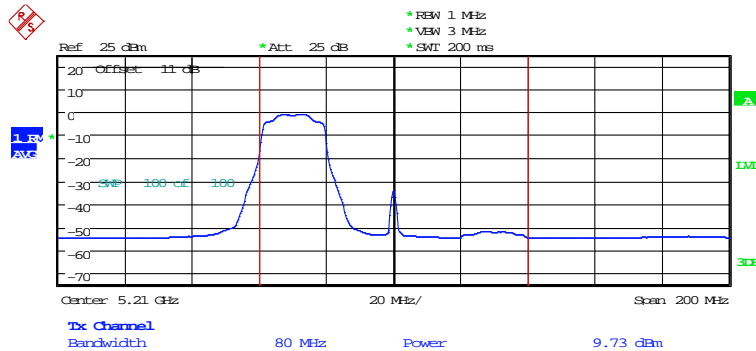
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Registration number: W6M22307-22823-C-2
FCC ID: IR5RK15



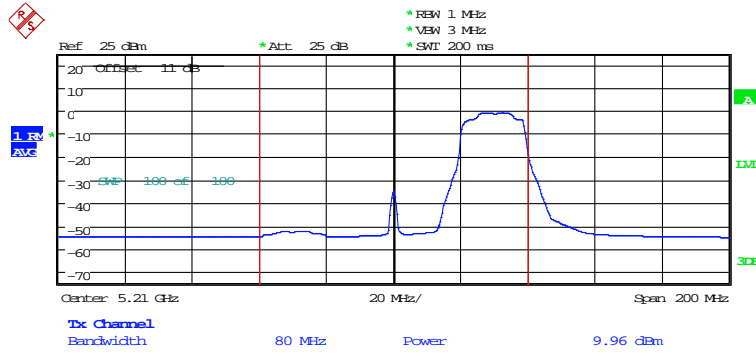
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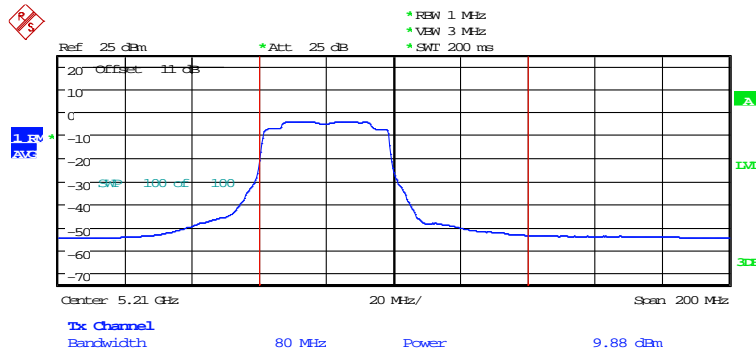
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Date: 5.AUG.2023 14:21:58



Registration number: W6M22307-22823-C-2
FCC ID: IR5RK15



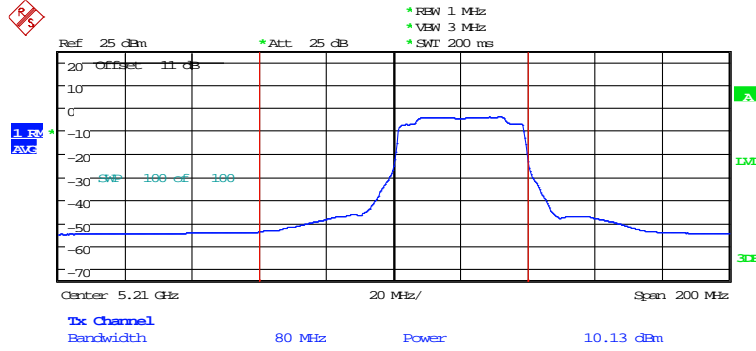
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Date: 5.AUG.2023 14:22:40



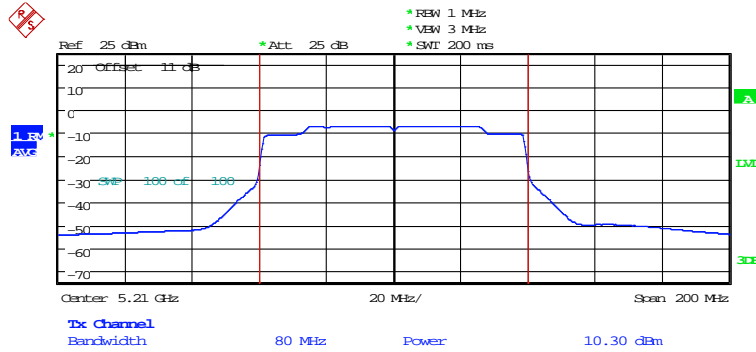
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Date: 5.AUG.2023 14:23:25



Registration number: W6M22307-22823-C-2
 FCC ID: IR5RK15



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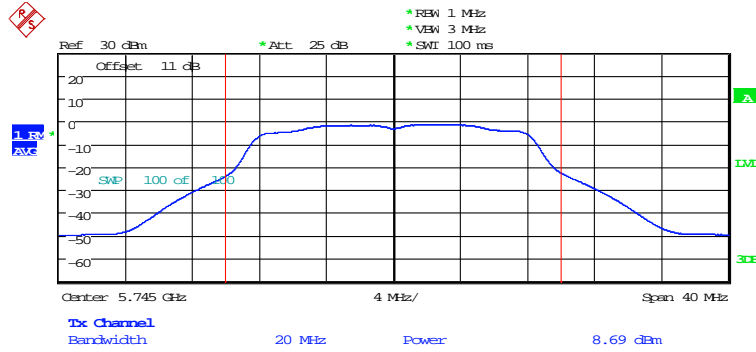
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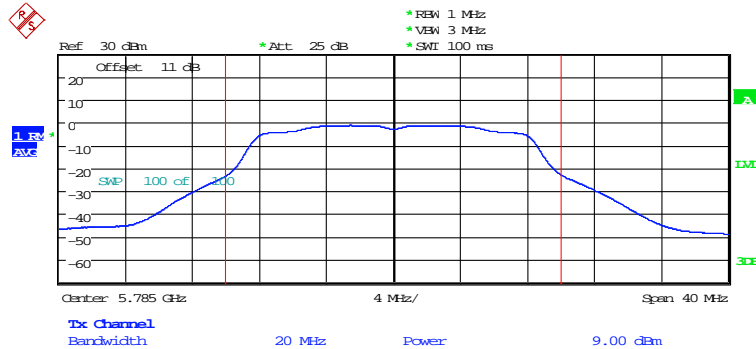
Registration number: W6M22307-22823-C-2

FCC ID: IR5RK15

5.725 GHz ~ 5.85 GHz



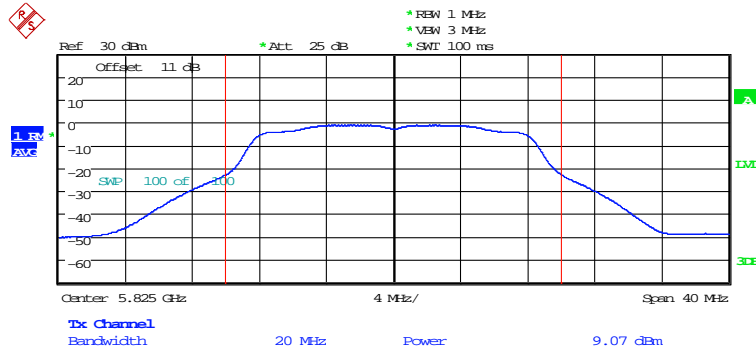
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Date: 4.AUG.2023 18:07:10



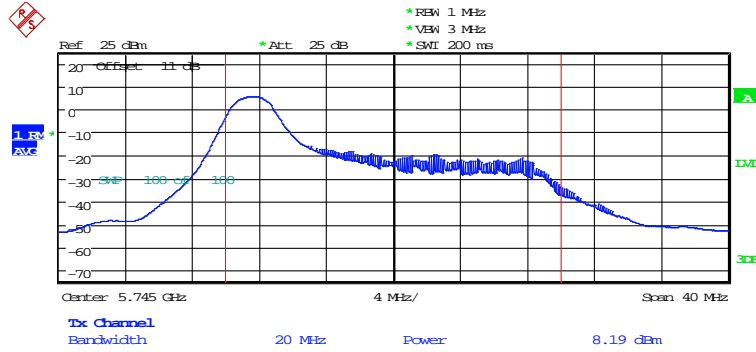
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Date: 4.AUG.2023 18:08:25



Registration number: W6M22307-22823-C-2
 FCC ID: IR5RK15



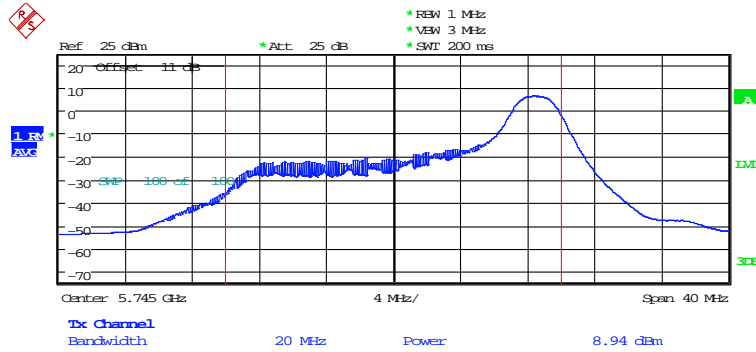
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 Date: 4.AUG.2023 18:10:27



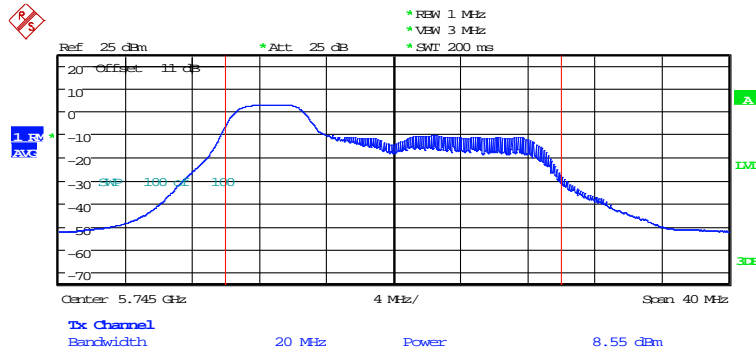
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 Date: 4.AUG.2023 18:29:22



Registration number: W6M22307-22823-C-2
FCC ID: IR5RK15



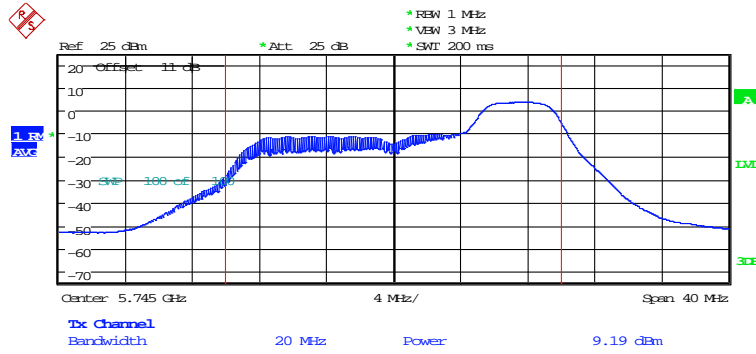
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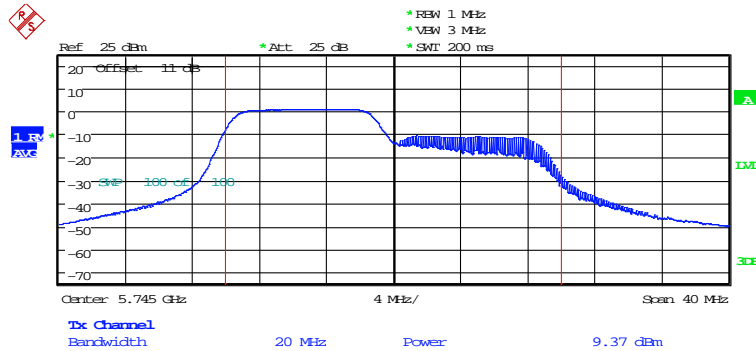
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Date: 4.AUG.2023 18:30:29



Registration number: W6M22307-22823-C-2
 FCC ID: IR5RK15



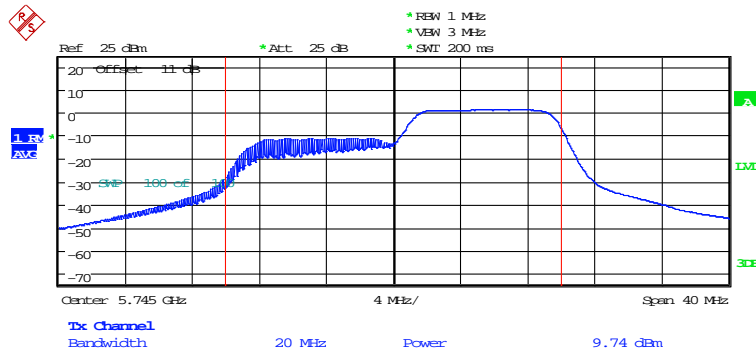
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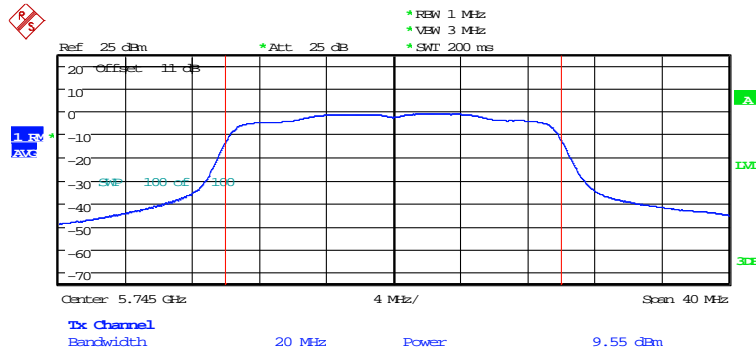
MAXIMUM CONDUCTED POWER ANT1_11ax20CH149_106RU1
 Date: 4.AUG.2023 18:31:46



Registration number: W6M22307-22823-C-2
 FCC ID: IR5RK15



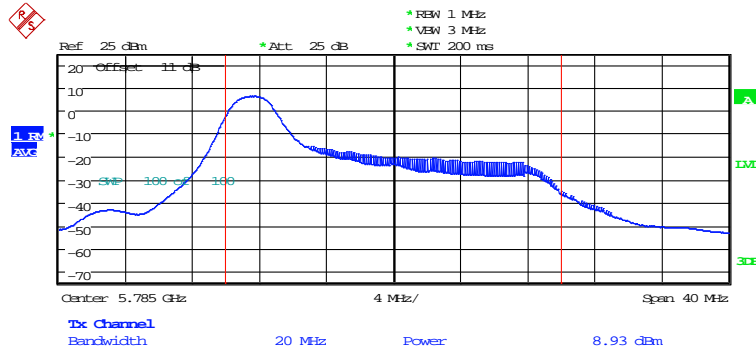
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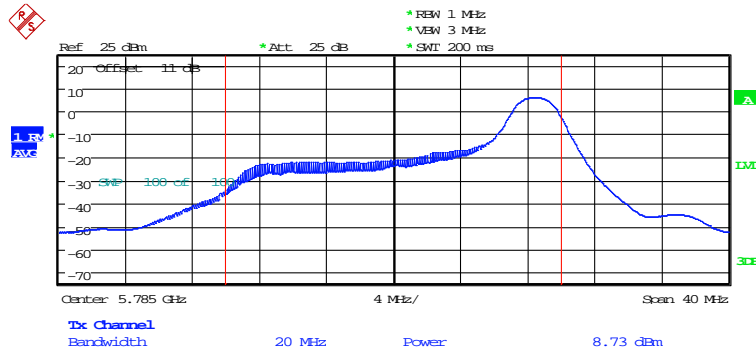
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Registration number: W6M22307-22823-C-2
 FCC ID: IR5RK15



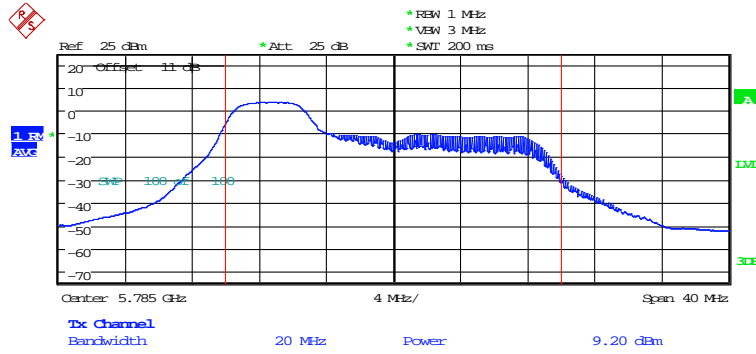
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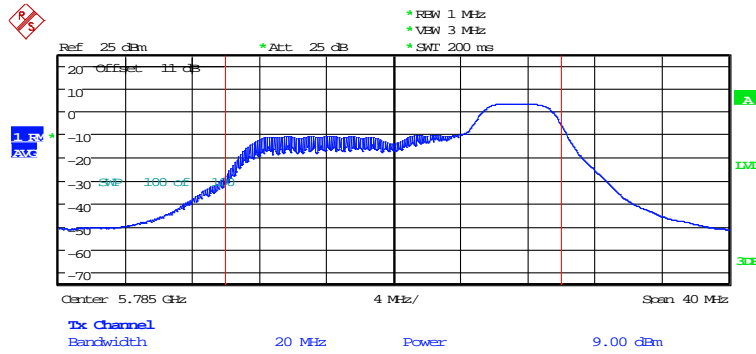
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 Date: 4.AUG.2023 18:36:45



Registration number: W6M22307-22823-C-2
 FCC ID: IR5RK15



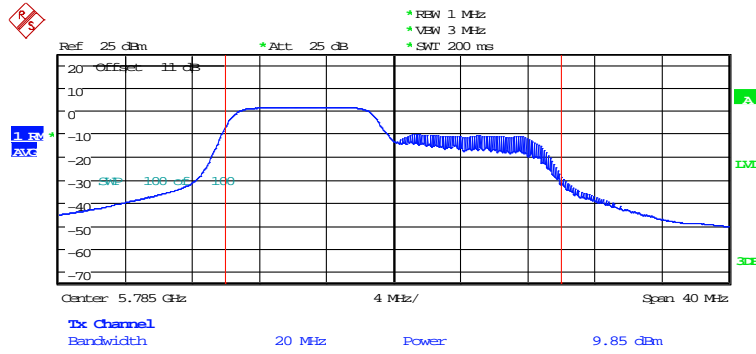
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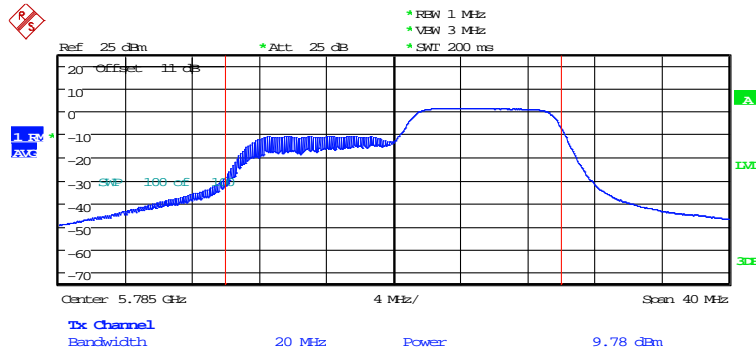
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 Date: 4.AUG.2023 18:38:00



Registration number: W6M22307-22823-C-2
 FCC ID: IR5RK15



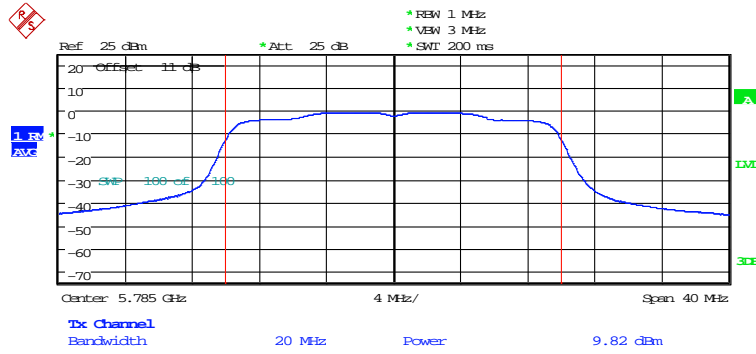
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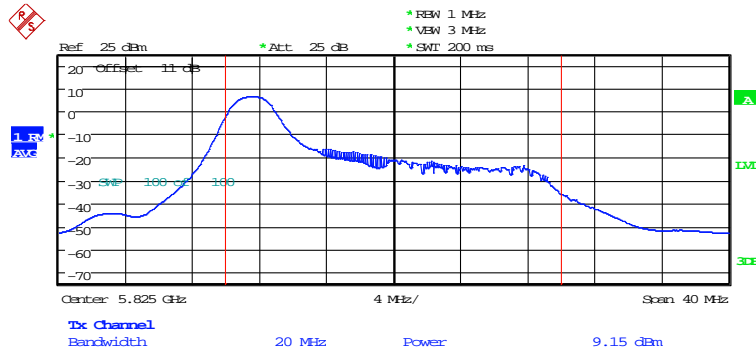
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 Date: 4.AUG.2023 18:39:12



Registration number: W6M22307-22823-C-2
 FCC ID: IR5RK15



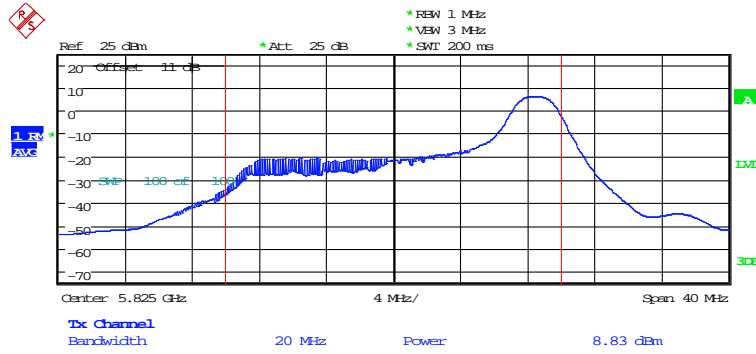
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 Date: 4.AUG.2023 18:39:58



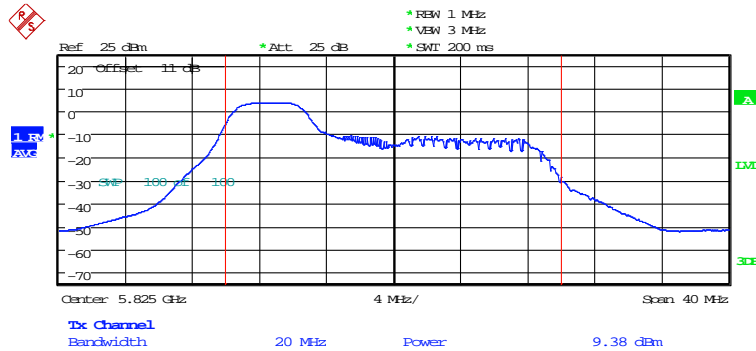
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 Date: 4.AUG.2023 18:41:42



Registration number: W6M22307-22823-C-2
FCC ID: IR5RK15



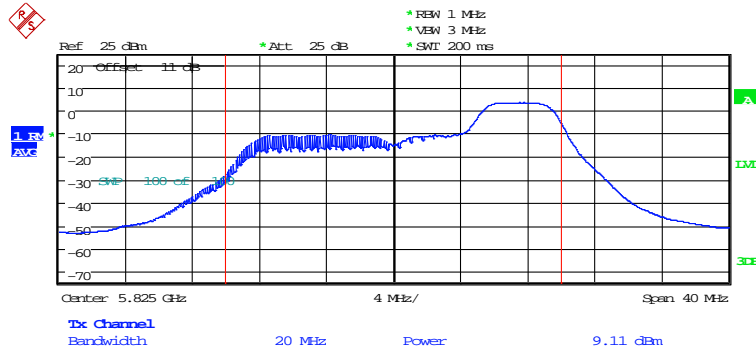
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Date: 4.AUG.2023 18:42:18



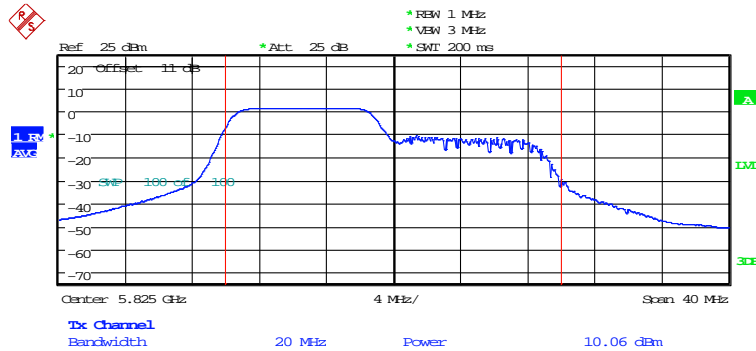
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Date: 4.AUG.2023 18:42:54



Registration number: W6M22307-22823-C-2
FCC ID: IR5RK15



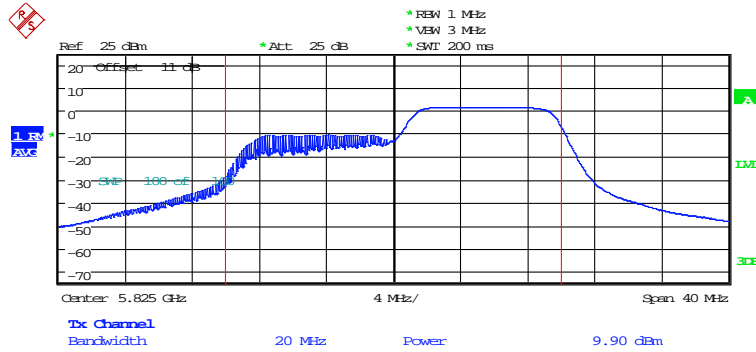
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Date: 4.AUG.2023 18:43:31



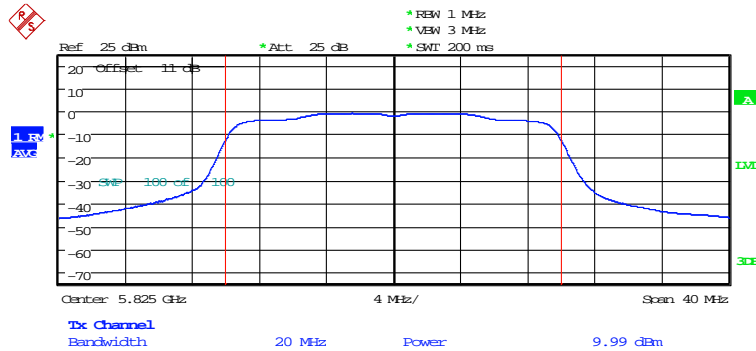
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Date: 4.AUG.2023 18:44:04



Registration number: W6M22307-22823-C-2
 FCC ID: IR5RK15



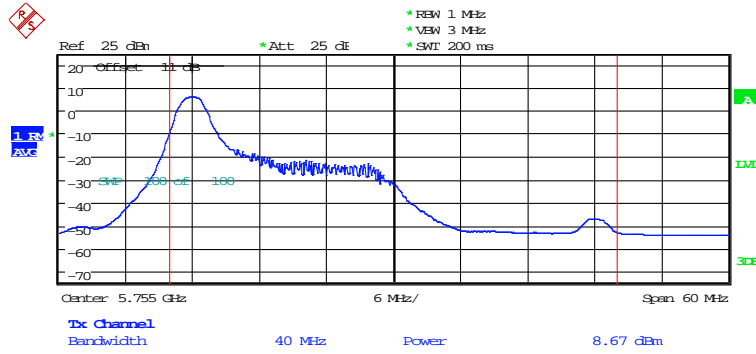
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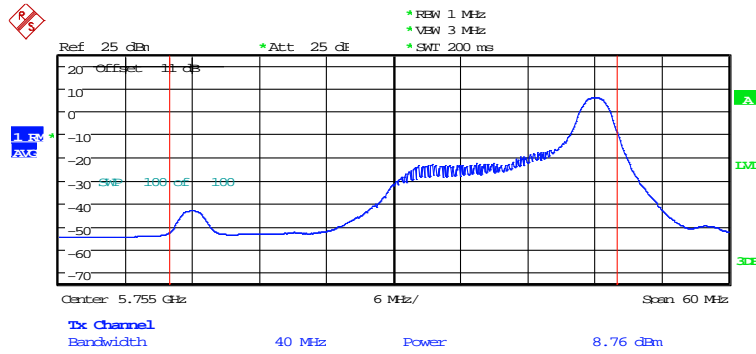
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Registration number: W6M22307-22823-C-2
 FCC ID: IR5RK15



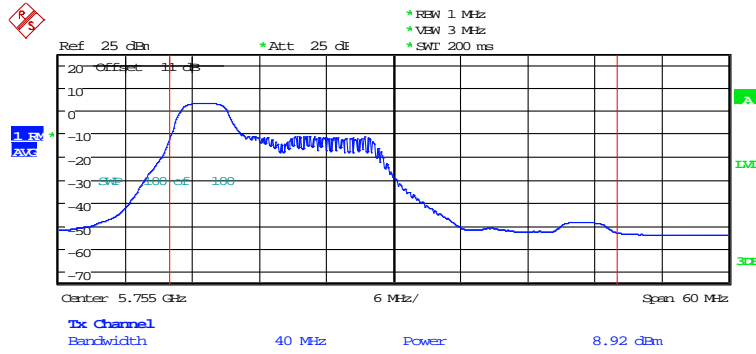
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 Date: 4.AUG.2023 19:06:14



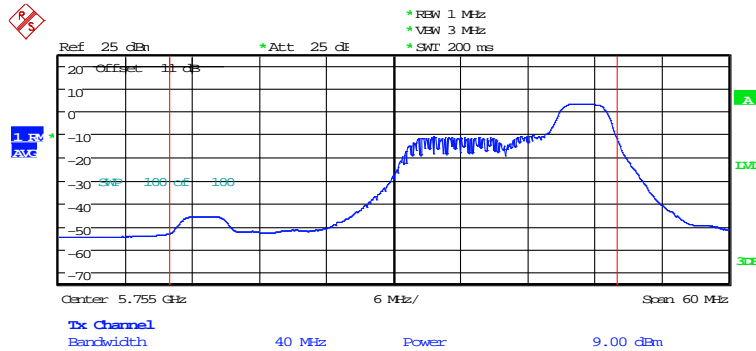
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Registration number: W6M22307-22823-C-2
 FCC ID: IR5RK15



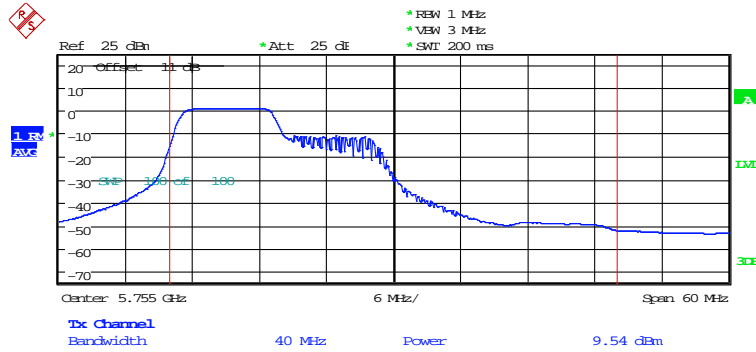
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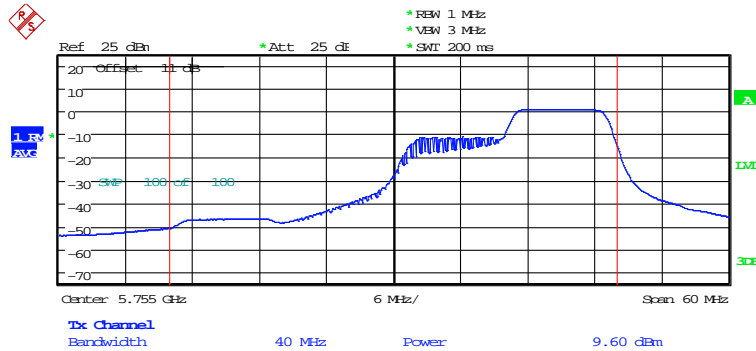
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Registration number: W6M22307-22823-C-2
 FCC ID: IR5RK15



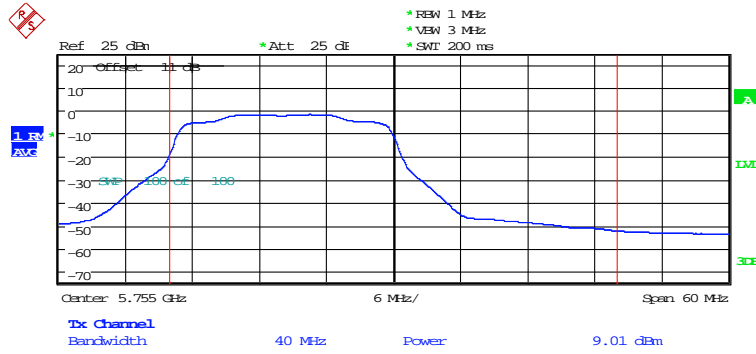
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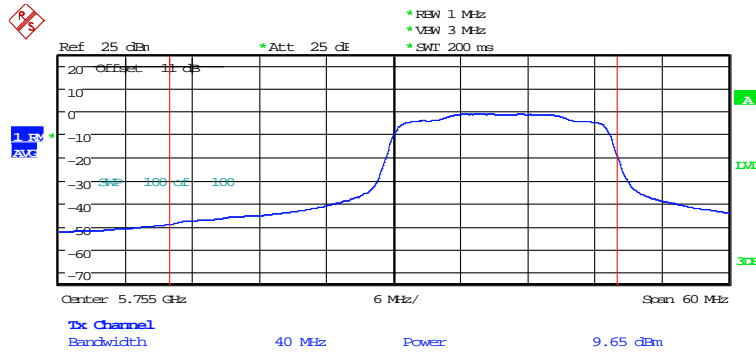
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Registration number: W6M22307-22823-C-2
FCC ID: IR5RK15



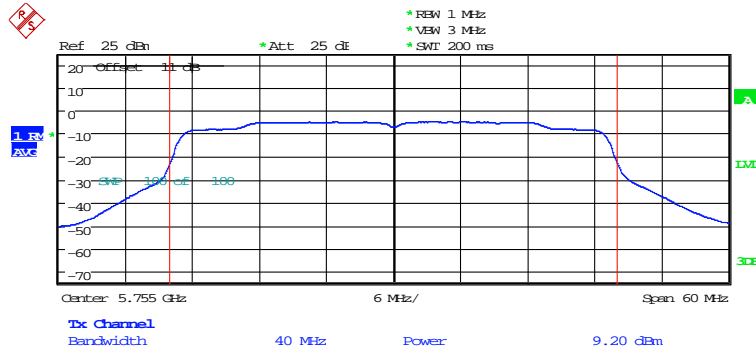
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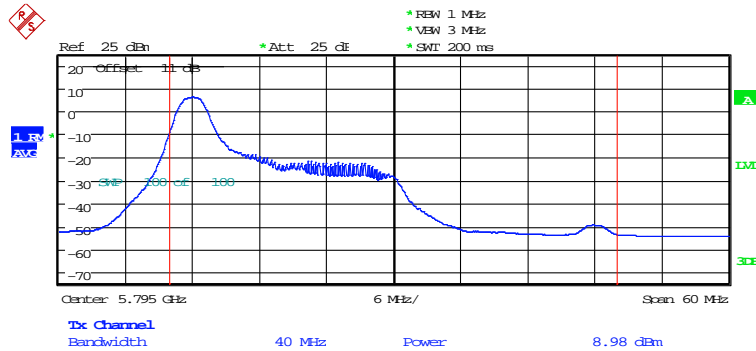
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Registration number: W6M22307-22823-C-2
 FCC ID: IR5RK15



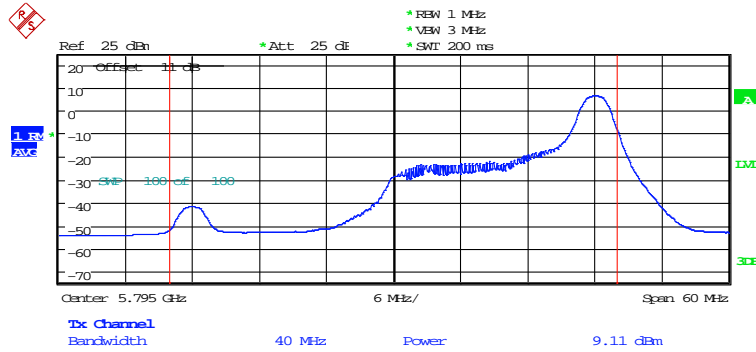
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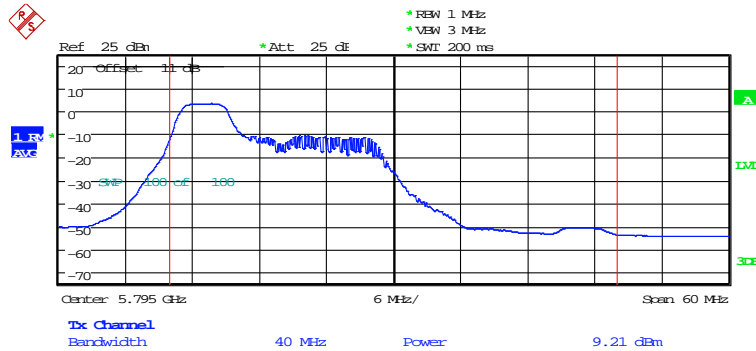
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Registration number: W6M22307-22823-C-2
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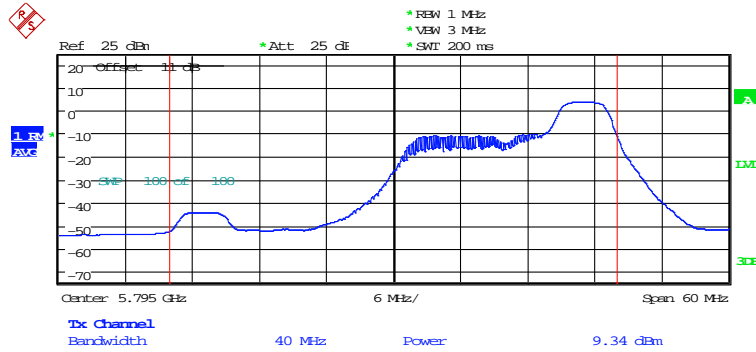
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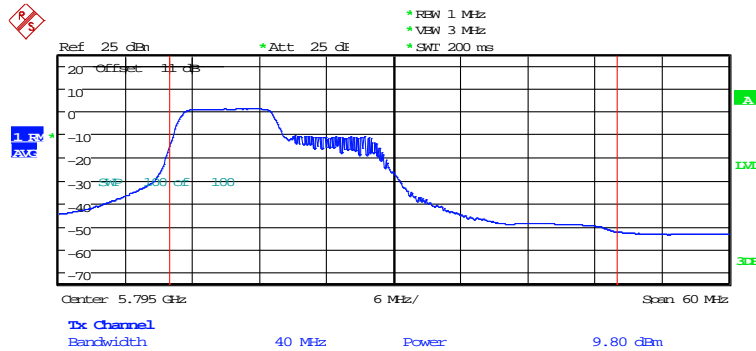
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Registration number: W6M22307-22823-C-2
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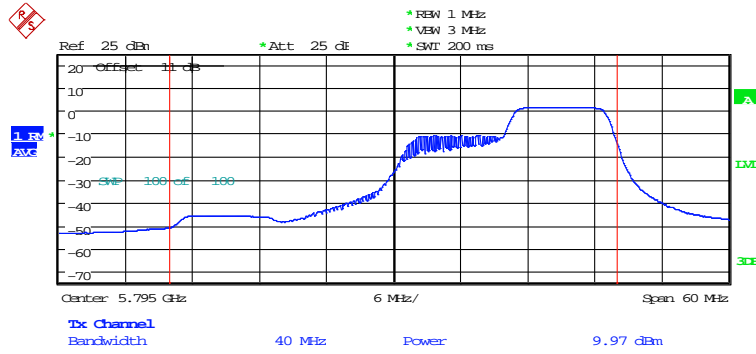
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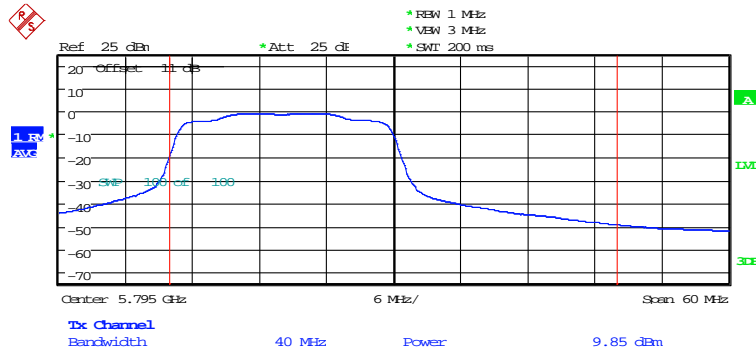
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Date: 4.AUG.2023 19:15:00



Registration number: W6M22307-22823-C-2
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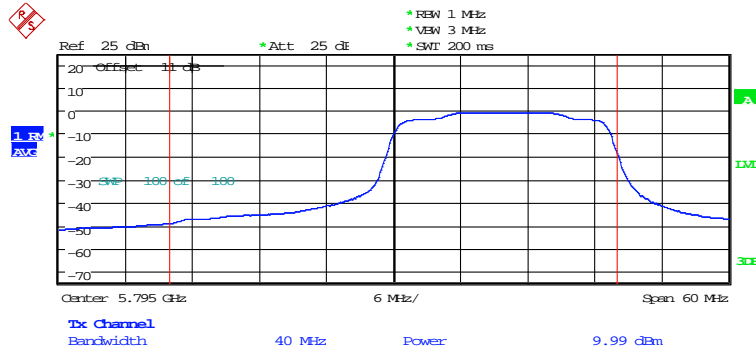
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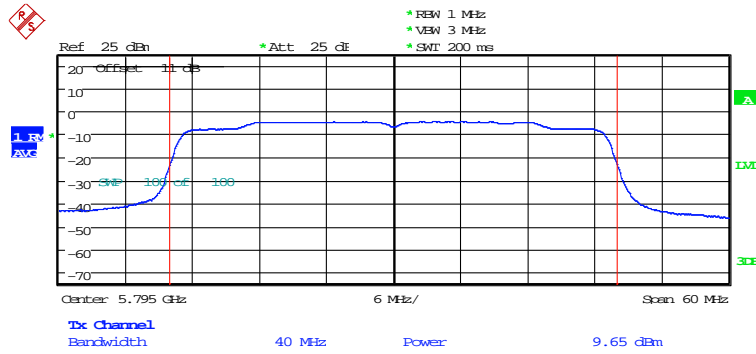
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Registration number: W6M22307-22823-C-2
 FCC ID: IR5RK15



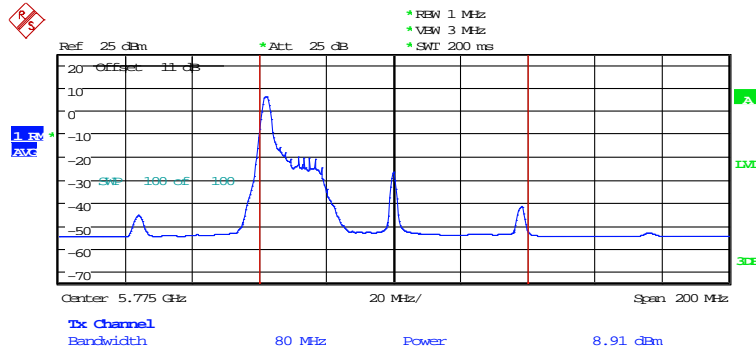
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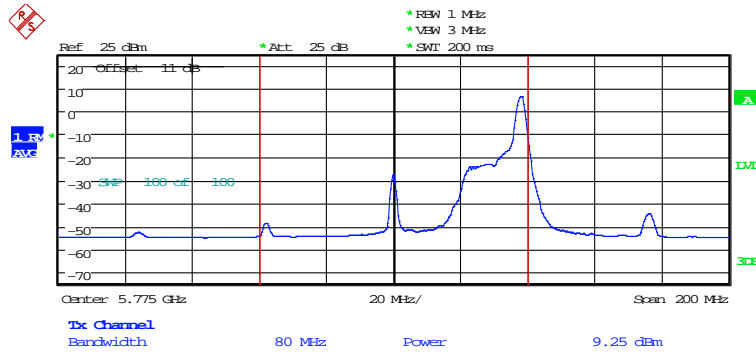
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Registration number: W6M22307-22823-C-2
 FCC ID: IR5RK15



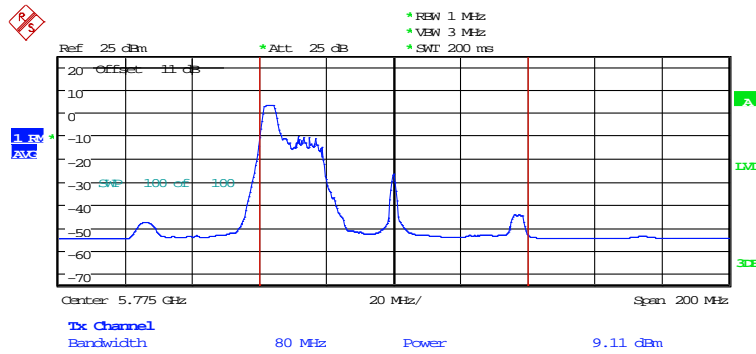
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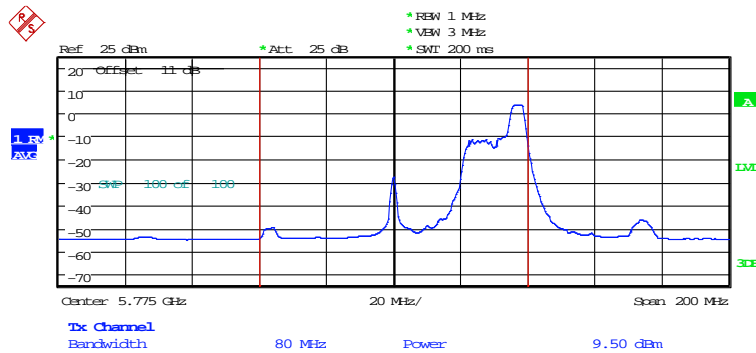
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Registration number: W6M22307-22823-C-2
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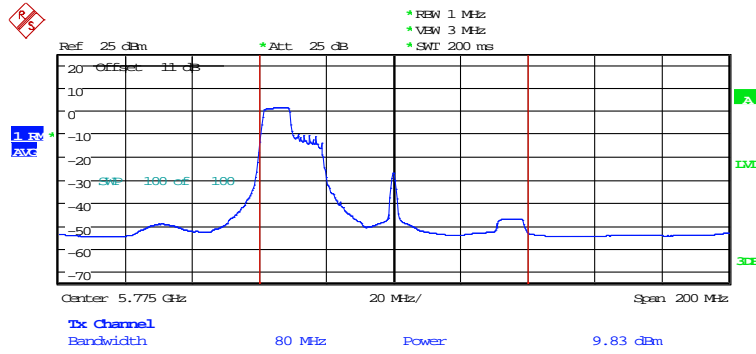
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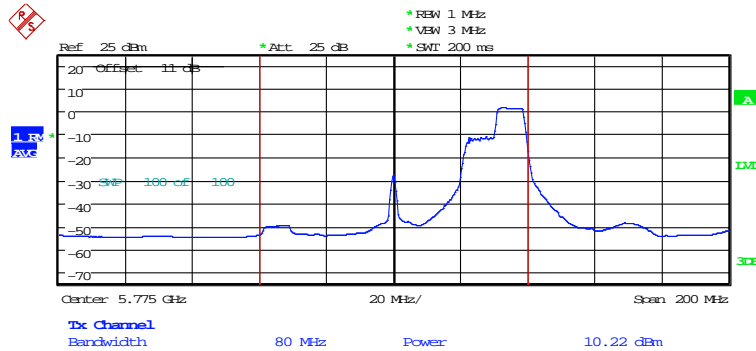
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Registration number: W6M22307-22823-C-2
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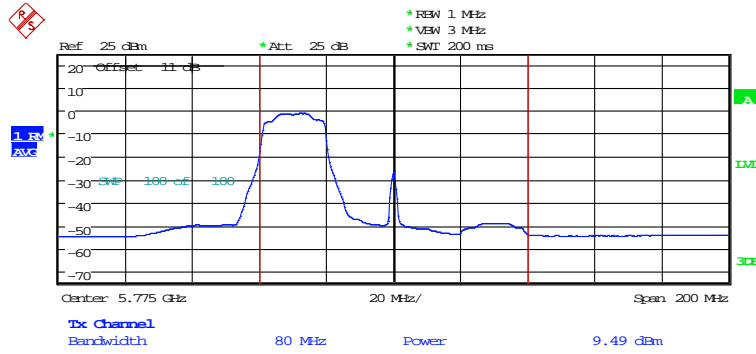
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Date: 5.AUG.2023 14:30:03



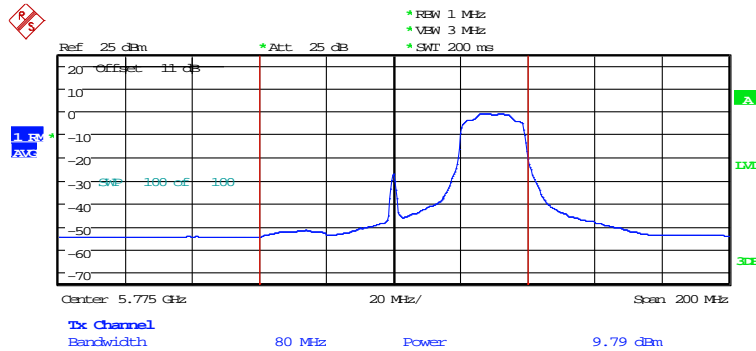
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Date: 5.AUG.2023 14:30:50



Registration number: W6M22307-22823-C-2
 FCC ID: IR5RK15



MAXIMUM CONDUCTED POWER ANT1_11ax80CH155_242RU1
 Date: 5.AUG.2023 14:31:40



MAXIMUM CONDUCTED POWER ANT1_11ax80CH155_242RU4
 Date: 5.AUG.2023 14:32:30