

47 CFR Part 22, Part 24, Part 27

TEST REPORT

for

Smart Home Alarm System

Model No.: HSGW-MAX8

FCC ID: GX9HSGWMAXF1919

of

Applicant: CLIMAX TECHNOLOGY CO., LTD.
Address: No. 258, Sinhu 2nd Rd., Neihu District, Taipei City 114,
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.: W6M22512-24856-C-247

6F, NO. 58, LANE 188, RUEY-KUANG RD., NEIHU TAIPEI 114, TAIWAN, R.O.C.
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Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22512-24856-C-247

FCC ID: GX9HSGWMAXF1919

Certification of Test Report

Applicant : CLIMAX TECHNOLOGY CO., LTD.
No. 258, Sinhu 2nd Rd., Neihu District,
Taipei City 114, Taiwan (R.O.C.)

Manufacturer : CLIMAX TECHNOLOGY CO., LTD.
No. 258, Sinhu 2nd Rd., Neihu District,
Taipei City 114, Taiwan (R.O.C.)

Tested equipment :

Type description : Smart Home Alarm System
Model number : HSGW-MAX8
Brand name : ./.
Operation frequency : Please see chapter 2.3.
RF output power : Band 2: 23.05dBm (EIRP)
Band 4: 22.93dBm (EIRP)
Band 12: 21.67dBm (ERP)
Power supply : Adapter (I/P: 100-240V~50/60Hz 0.30A Max
O/P: 12.0V=1.0A 12W)

Regulation applied : 47CFR Part 22 (2024-10),
Part 24 (2024-10), Part 27 (2024-10)

Test method : 47CFR Part 2 (2024), TIA/EIA-603E (2016) and
ANSI C63.26 (2015)

I HEREBY CERTIFY THAT: The test results written in this report were derived conscientiously in accordance with the requirements and procedures of 47CFR Part 2 (2024), TIA/EIA-603E (2016), and it was found that the device described above is in compliance with the applicable limits specified in 47CFR Part 22/24/27.

Laboratory disclaimer:

1. The result of this test report is valid only in connection to the sample has been tested at the laboratory of Worldwide Testing Services (Taiwan) Co. Ltd.
2. This test report shall always be duplicated in full pages unless the written approval of the testing laboratory is obtained.
3. Antenna gain is provided by applicant and laboratory issue relevant data and results.



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22512-24856-C-247

FCC ID: GX9HSGWMAXF1919

Test engineer:

January 02, 2026

Rick Chen

Rick Chen.

Date

WTS-Lab.

Name

Signature

Technical responsibility for area of testing:

January 02, 2026

Kevin Wang

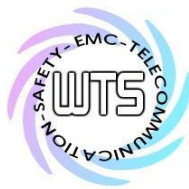
Kevin Wang

Date

WTS

Name

Signature

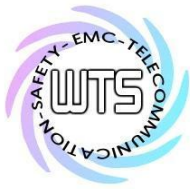


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1 Summary

1.1 Description of tested equipment

This equipment under tested, HSGW-MAX8, is a Smart Home Alarm System.

This test report only contains test requirements specified in 47CFR Part 22, Part 24, Part 27 for LTE function. For other functions; please refer to separate test report with respect to the relevant test standard and specification.

1.2 Date of testing processing

Date of receipt of test item: December 09, 2025

Date of test: from December 10, 2025 to December 29, 2025

Other Information: None

1.3 Modification Information

No modification was made during the all test items been performed.

1.4 Test standards

Technical standard: **47CFR Part 22 (2024-10), Part 24 (2024-10),
Part 27 (2024-10)**

Test method: **47 CFR Part 2 (2024), TIA/EIA-603E (2016),
ANSI C63.26 (2015)**

Deviation from test standard: None



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1.5 Summary of test result

Harmonized Standard Requirements and Conformance Test Specifications				
Item	Clause	Test Content	Limit	Test Result
3.2	§22.913 §24.232 §27.50 §90.205	Effective Radiated Power and Equivalent Isotropic Radiated Power Measurement	EIRP < 2 Watts (Band 2) ERP < 3 Watts (Band 12) EIRP < 1 Watts (Band 4)	Pass
5.3	§24.232 §27.50	Peak-to-Average Ratio	< 13 dB	Pass
6.2	§2.1049 §90.209	Occupied Bandwidth	OBW : No Limit	Pass
7.2	§22.917 §24.238 §27.53 §90.210	Conducted Spurious Emission Measurement	< 43+10log10(P[Watts])	Pass
8.2	§22.917 §24.238 §27.53 §90.210	Radiated Spurious Emission Measurement	< 43+10log10(P[Watts])	Pass
8.5	§22.917 §24.238 §27.53 §90.210	Conducted Band Edge Measurement	< 43+10log10(P[Watts])	Pass
9.2	§2.1055 §22.355 §24.235 §27.54 §90.213	Frequency stability / Temperature variation Measurement	< 2.5 ppm	Pass

Test item Name	Measurement Uncertainty
Estimation Result of Uncertainty of Radiated Emission(3M-966A)	Expanded Uncertainty : 0.009-30 MHz : 1.85 dB 30-1000 MHz : 3.92 dB 1-18 GHz : 3.19 dB 18-40 GHz : 1.90 dB
Estimation Result of Uncertainty of Conducted Output Power Measurement	Expanded Uncertainty : 1.63 dB
Estimation Result of Uncertainty of Bandwidth Measurement	Expanded Uncertainty : 0.37 kHz
Estimation Result of Uncertainty of Frequency Drift Measurement	Expanded Uncertainty : 6.11 Hz
Estimation Result of Uncertainty of Band Edge Measurement	Expanded Uncertainty : 0.63 dBc

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



Worldwide Testing Services(Taiwan) Co., Ltd.

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2 General Information

2.1 Testing laboratory

2.1.1 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

2.1.2 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

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

Name:	./.
Accredited number:	./.
Street:	./.
Town:	./.
Country:	./.

2.2 Details of approval holder

Name:	CLIMAX TECHNOLOGY CO., LTD.
Street:	No. 258, Sinhu 2nd Rd., Neihu District,
Town:	Taipei City 114,
Country:	Taiwan (R.O.C.)

Manufacturer: (if different from applicant)

Name:	./.
Street:	./.
Town:	./.
Country:	./.



Registration number: W6M22512-24856-C-247

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2.3 Description of Tested System

The EUT was tested alone without the Accessories or Peripherals.

Equipment	Model No.	Series No.	Software	Cable information	Note
No accessories were used with this EUT.					

Frequencies Selected to be investigated:

Band 2

Test Frequency ID	Bandwidth [MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
Low Range	1.4	18607	1850.7	607	1930.7
	3	18615	1851.5	615	1931.5
	5	18625	1852.5	625	1932.5
	10	18650	1855	650	1935
	15 ^[1]	18675	1857.5	675	1937.5
	20 ^[1]	18700	1860	700	1940
Mid Range	1.4/3/5/10 15 ^[1] /20 ^[1]	18900	1880	900	1960
High Range	1.4	19193	1909.3	1193	1989.3
	3	19185	1908.5	1185	1988.5
	5	19175	1907.5	1175	1987.5
	10	19150	1905	1150	1985
	15 ^[1]	19125	1902.5	1125	1982.5
	20 ^[1]	19100	1900	1100	1980
NOTE 1: Bandwidth for which a relaxation of the specified UE receiver sensitivity requirement (TS 36.101 [27] Clause 7.3) is allowed.					

Band 4

Test Frequency ID	Bandwidth [MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
Low Range	1.4	19957	1710.7	1957	2110.7
	3	19965	1711.5	1965	2111.5
	5	19975	1712.5	1975	2112.5
	10	20000	1715	2000	2115
	15	20025	1717.5	2025	2117.5
	20	20050	1720	2050	2120
Mid Range	1.4/3/5/10/15/20	20175	1732.5	2175	2132.5
High Range	1.4	20393	1754.3	2393	2154.3
	3	20385	1753.5	2385	2153.5
	5	20375	1752.5	2375	2152.5
	10	20350	1750	2350	2150
	15	20325	1747.5	2325	2147.5
	20	20300	1745	2300	2145



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Band 12

Test Frequency ID	Bandwidth [MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
Low Range	1.4	23017	699.7	5017	729.7
	3	23025	700.5	5025	730.5
	5 [1]	23035	701.5	5035	731.5
	10 [1]	23060	704	5060	734
Mid Range	1.4/3 5 [1]/10 [1]	23095	707.5	5095	737.5
High Range	1.4	23173	715.3	5173	745.3
	3	23165	714.5	5165	744.5
	5 [1]	23155	713.5	5155	743.5
	10 [1]	23130	711	5130	741

NOTE 1: Bandwidth for which a relaxation of the specified UE receiver sensitivity requirement (TS 36.101 [27] Clause 7.3) is allowed.

Antenna type: Monopole antenna

Antenna gain: Band 2: -0.27dBi 、 Band 4: -0.01dBi 、 Band 12: 0.09dBi

Power supply: Adapter (I/P: 100-240V~50/60Hz 0.30A Max
O/P: 12.0V=1.0A 12W)

Sample no.: #01

2.4 Test environment

Temperature: 27 °C
Relative humidity content: 54 %
Air pressure: 86-103 Kpa

2.5 General Test Requirement

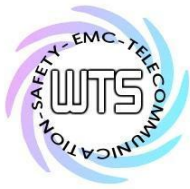
Radiated Emission: For investigated frequency is equal to or below 1GHz, the RBW and VBW of the spectrum analyzer was 100 kHz and 100 kHz respectively with an appropriate sweep speed.

For investigated frequency is above 1GHz, both of RBW and VBW of the spectrum analyzer were 1 MHz with an appropriate sweep speed. The analyzer was calibrated in dB above a microvolt at the output of the antenna.

The table used for radiated measurements is capable of continuous rotation. The spectrum was scanned from 30 MHz to the frequency specified as follows:

(1) If the intentional radiator operates below 10 GHz: to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.

(2) If the intentional radiator operates at or above 10 GHz and below 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 100 GHz, whichever is lower.



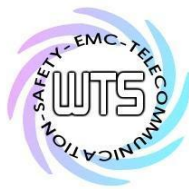
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(3) If the intentional radiator operates at or above 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 200 GHz, whichever is lower, unless specified otherwise elsewhere in the rules.

For hand-held devices, a exploratory test was performed with three (3) orthogonal planes to determine the highest emissions.

When an emission was found, the table was rotated to produce the maximum signal strength. At this point, the antenna was raised and lowered from 1m to 4m. The antenna was placed in both the horizontal and vertical planes.



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2.6 Test Equipment List

Power

Code No.	Test equipment	Mode No.	Serial No.	Brand	Cal. Date	Next Cal. Date
ETSTW-RE 050	Attenuator 10dB	50HF-010-1	None	JFW	2025/2/14	2026/2/13
ETSTW-RE 099	DC Block	50DB-007-1	None	JFW	2025/2/14	2026/2/13
ETSTW-GSM 003	Radio Communication Analyzer	MT8820C	6201342073	Anritsu	2025/4/24	2026/4/23
ETSTW-Cable 030	Microwave Cable	SUCOFLEX 104 (S_Cable 9)	279067	HUBER+SUHNER	2025/2/14	2026/2/13

Frequency stability

Code No.	Test equipment	Mode No.	Serial No.	Brand	Cal. Date	Next Cal. Date
ETSTW-CE 009	TEMP.&HUMIDITY CHAMBER	GTH-225-40-1P-U	MAA0305-009	GIANT FORCE	2025/7/22	2026/7/21
ETSTW-RE 050	Attenuator 10dB	50HF-010-1	None	JFW	2025/2/14	2026/2/13
ETSTW-RE 099	DC Block	50DB-007-1	None	JFW	2025/2/14	2026/2/13
ETSTW-GSM 003	Radio Communication Analyzer	MT8820C	6201342073	Anritsu	2025/4/24	2026/4/23
ETSTW-Cable 030	Microwave Cable	SUCOFLEX 104 (S_Cable 9)	279067	HUBER+SUHNER	2025/2/14	2026/2/13

Conducted Spurious emission, Bandedge, Occupied Bandwidth, 26DB 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	2025/2/14	2026/2/13
ETSTW-RE 099	DC Block	50DB-007-1	None	JFW	2025/2/14	2026/2/13
ETSTW-RE 055	SPECTRUM ANALYZER	FSU 26	200074	R&S	2025/3/5	2026/3/4
ETSTW-GSM 023	Power Divider	4901.19.A	None	SUHNER	2025/8/25	2026/8/24
ETSTW-GSM 003	Radio Communication Analyzer	MT8820C	6201342073	Anritsu	2025/4/24	2026/4/23
ETSTW-Cable 030	Microwave Cable	SUCOFLEX 104 (S_Cable 9)	279067	HUBER+SUHNER	2025/2/14	2026/2/13

Peak to Average Ratio

Code No.	Test equipment	Mode No.	Serial No.	Brand	Cal. Date	Next Cal. Date
ETSTW-RE 050	Attenuator 10dB	50HF-010-1	None	JFW	2025/2/14	2026/2/13
ETSTW-RE 099	DC Block	50DB-007-1	None	JFW	2025/2/14	2026/2/13
ETSTW-RE 155	Signal and Spectrum Analyzer	FSV3044	101136	R&S	2025/4/10	2026/4/9
ETSTW-GSM 023	Power Divider	4901.19.A	None	SUHNER	2025/8/25	2026/8/24
ETSTW-GSM 003	Radio Communication Analyzer	MT8820C	6201342073	Anritsu	2025/4/24	2026/4/23
ETSTW-Cable 030	Microwave Cable	SUCOFLEX 104 (S_Cable 9)	279067	HUBER+SUHNER	2025/2/14	2026/2/13



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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	2025/9/10	2026/9/9
ETSTW-RE 154	EMI Test Receiver	ESR3	102829	R&S	2025/4/9	2026/4/8
ETSTW-RE 160	Amplifier Module	CHC 3	None	WTS	2025/7/11	2026/7/10
ETSTW-RE 177	TRILOG Broadband Antenna	VULB 9168&EMCI-N-6-06	01380&AT-06007	SCHWARZBECK&EMC	2025/3/10	2026/3/9
ETSTW-RE 178	Double Ridged Guide Horn Antenna	DRH18-E	210505A18ES	RFSPIN	2025/3/7	2026/3/6
ETSTW-Cable 077	SMA type cable (10m)	EMC104-SM-SM-10000	230511	EMCI	2025/7/11	2026/7/10
ETSTW-Cable 084	SMA type cable (1m)	SF104-11SMA-1000	816477/4	HONOVA	2025/7/11	2026/7/10
ETSTW-Cable 089	SMA type cable (2m)	SF104-11SMA-2000	SN 811889/4	HUBER+SUHNER	2025/7/11	2026/7/10
WTSTW-SW 002	EMI TEST SOFTWARE	EZ EMC	None	Farad	Version ETS-03A1 Version EMEC-3A1+	
ETSTW-GSM 024	Radio Communication Analyzer	MT8821C	None	Anritsu	2025/4/24	2026/4/23

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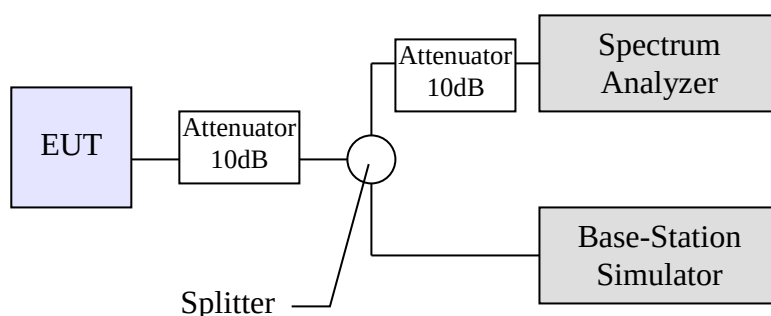
3. RF Power Output

3.1 Test procedure

3.1.1 Conducted Method

Per 47CFR Part 2.1046, the RF power output shall be measured at the RF output terminals and following procedure is employed:

The transmitter output was connected as the following figure:



The whole connection system is calibrated with a standard signal generator. Power on and make a link form simulator to EUT and then set the EUT to maximum output power.

Measure the RF power with the spectrum analyzer in accordance the following settings:

RBW: 300 kHz for Frequency below 1GHz and 1MHz for Frequency equal to and above 1GHz.

VBW: 300 kHz for Frequency below 1GHz and 1MHz for Frequency equal to and above 1GHz.

Span: 2MHz

Sweep: 3s

The power output at the transmitter antenna terminal is then determined by assign the value of the corrected factor to the spectrum analyzer reading.

Tests were performed at three frequencies (low, middle and high channels) and operation mode selected.



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3.2 Test Results

Test date: December 19, 2025

Temperature: 22.1 °C

Humidity: 57.9 %

Tester: Rick

Band 2

BW(MHz)	Modulation	RB Size	RB offset	POWER(dBm) Low Ch18607/1850.7MHz	POWER(dBm) Mid Ch18900/1880MHz	POWER(dBm) High Ch19193/1909.3MHz	EIRP Low Ch18607/1850.7MHz	EIRP Mid Ch18900/1880MHz	EIRP High Ch19193/1909.3MHz
1.4	QPSK	1	0	22.68	22.74	22.98	22.41	22.47	22.71
1.4	QPSK	1	3	22.8	22.87	22.95	22.53	22.6	22.68
1.4	QPSK	1	5	22.63	22.71	22.76	22.36	22.44	22.49
1.4	QPSK	3	0	22.73	22.91	22.93	22.46	22.64	22.66
1.4	QPSK	3	1	22.78	22.87	23.03	22.51	22.6	22.76
1.4	QPSK	3	3	22.68	22.92	22.74	22.41	22.65	22.47
1.4	QPSK	6	0	21.74	21.86	22.04	21.47	21.59	21.77
1.4	16QAM	1	0	21.52	21.66	21.78	21.25	21.39	21.51
1.4	16QAM	1	3	21.84	21.79	21.97	21.57	21.52	21.7
1.4	16QAM	1	5	21.72	21.65	21.84	21.45	21.38	21.57
BW(MHz)	Modulation	RB Size	RB offset	POWER(dBm) Low Ch18615/1851.5MHz	POWER(dBm) Mid Ch18900/1880MHz	POWER(dBm) High Ch19185/1908.5MHz	EIRP Low Ch18615/1851.5MHz	EIRP Mid Ch18900/1880MHz	EIRP High Ch19185/1908.5MHz
3	QPSK	1	0	22.74	22.74	22.8	22.47	22.47	22.53
3	QPSK	1	7	22.62	22.59	22.81	22.35	22.32	22.54
3	QPSK	1	14	22.72	22.78	22.85	22.45	22.51	22.58
3	QPSK	8	0	21.78	21.82	21.85	21.51	21.55	21.58
3	QPSK	8	3	21.84	21.75	21.85	21.57	21.48	21.58
3	QPSK	8	7	21.78	21.82	21.89	21.51	21.55	21.62
3	QPSK	15	0	21.81	21.83	21.84	21.54	21.56	21.57
3	16QAM	1	0	21.63	21.65	22.27	21.36	21.38	22
3	16QAM	1	7	21.34	21.55	21.51	21.07	21.28	21.24
3	16QAM	1	14	21.63	21.73	21.74	21.36	21.46	21.47

BW(MHz)	Modulation	RB Size	RB offset	POWER(dBm) Low Ch18625/1852.5MHz	POWER(dBm) Mid Ch18900/1880MHz	POWER(dBm) High Ch19175/1907.5MHz	EIRP Low Ch18625/1852.5MHz	EIRP Mid Ch18900/1880MHz	EIRP High Ch19175/1907.5MHz
5	QPSK	1	0	22.43	22.66	23.05	22.16	22.39	22.78
5	QPSK	1	12	22.59	22.8	23.32	22.32	22.53	23.05
5	QPSK	1	24	22.51	22.53	22.95	22.24	22.26	22.68
5	QPSK	12	0	21.57	21.76	22.08	21.3	21.49	21.81
5	QPSK	12	6	21.75	21.83	22.05	21.48	21.56	21.78
5	QPSK	12	13	21.53	21.86	22.11	21.26	21.59	21.84
5	QPSK	25	0	21.47	21.77	22.07	21.2	21.5	21.8
5	16QAM	1	0	21.45	21.6	21.88	21.18	21.33	21.61
5	16QAM	1	12	21.34	21.5	21.61	21.07	21.23	21.34
5	16QAM	1	24	21.37	21.59	21.78	21.1	21.32	21.51
BW(MHz)	Modulation	RB Size	RB offset	POWER(dBm) Low Ch18650/1855MHz	POWER(dBm) Mid Ch18900/1880MHz	POWER(dBm) High Ch19150/1905MHz	EIRP Low Ch18650/1855MHz	EIRP Mid Ch18900/1880MHz	EIRP High Ch19150/1905MHz
10	QPSK	1	0	22.84	22.93	22.67	22.57	22.66	22.4
10	QPSK	1	24	22.82	23.26	22.87	22.55	22.99	22.6
10	QPSK	1	49	22.87	22.92	22.94	22.6	22.65	22.67
10	QPSK	25	0	21.87	21.97	21.91	21.6	21.7	21.64
10	QPSK	25	12	21.71	21.93	21.87	21.44	21.66	21.6
10	QPSK	25	25	21.86	21.94	21.92	21.59	21.67	21.65
10	QPSK	50	0	21.81	22.01	22.18	21.54	21.74	21.91
10	16QAM	1	0	21.09	21.3	21.6	20.82	21.03	21.33
10	16QAM	1	24	21.69	21.33	21.78	21.42	21.06	21.51
10	16QAM	1	49	21.74	21.63	21.77	21.47	21.36	21.5



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BW(MHz)	Modulation	RB Size	RB offset	POWER(dBm) Low Ch18675/1857.5MHz	POWER(dBm) Mid Ch18900/1880MHz	POWER(dBm) High Ch19125/1902.5MHz	EIRP Low Ch18675/1857.5MHz	EIRP Mid Ch18900/1880MHz	EIRP High Ch19125/1902.5MHz
15	QPSK	1	0	22.73	22.94	22.75	22.46	22.67	22.48
15	QPSK	1	37	22.94	23.21	22.78	22.67	22.94	22.51
15	QPSK	1	74	22.89	23.09	22.96	22.62	22.82	22.69
15	QPSK	36	0	21.66	21.94	21.67	21.39	21.67	21.4
15	QPSK	36	19	21.58	21.92	21.66	21.31	21.65	21.39
15	QPSK	36	39	21.63	21.87	21.77	21.36	21.6	21.5
15	QPSK	75	0	21.71	22.03	21.78	21.44	21.76	21.51
15	16QAM	1	0	21.53	22.13	21.62	21.26	21.86	21.35
15	16QAM	1	37	21.41	21.76	21.61	21.14	21.49	21.34
15	16QAM	1	74	21.52	21.65	21.71	21.25	21.38	21.44
BW(MHz)	Modulation	RB Size	RB offset	POWER(dBm) Low Ch18700/1860MHz	POWER(dBm) Mid Ch18900/1880MHz	POWER(dBm) High Ch19100/1900MHz	EIRP Low Ch18675/1857.5MHz	EIRP Mid Ch18900/1880MHz	EIRP High Ch19125/1902.5MHz
20	QPSK	1	0	22.75	22.81	22.74	22.48	22.54	22.47
20	QPSK	1	49	22.95	22.86	22.63	22.68	22.59	22.36
20	QPSK	1	99	22.78	22.58	22.94	22.51	22.31	22.67
20	QPSK	50	0	21.52	21.54	21.71	21.25	21.27	21.44
20	QPSK	50	25	21.6	21.63	21.63	21.33	21.36	21.36
20	QPSK	50	50	21.62	21.61	21.75	21.35	21.34	21.48
20	QPSK	100	0	21.59	21.63	21.52	21.32	21.36	21.25
20	16QAM	1	0	20.61	21.25	21.46	20.34	20.98	21.19
20	16QAM	1	49	21.28	21.44	21.46	21.01	21.17	21.19
20	16QAM	1	99	21.35	21.61	21.57	21.08	21.34	21.3



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Band 4

BW(MHz)	Modulation	RB Size	RB offset	POWER(dBm) Low Ch19957/1710.7MHz	POWER(dBm) Mid Ch20175/1732.5MHz	POWER(dBm) High Ch20393/1754.3MHz	EIRP Low Ch19957/1710.7MHz	EIRP Mid Ch20175/1732.5MHz	EIRP High Ch20393/1754.3MHz
1.4	QPSK	1	0	22.12	22.26	22.28	22.11	22.25	22.27
1.4	QPSK	1	3	22.27	22.23	22.52	22.26	22.22	22.51
1.4	QPSK	1	5	22.24	22.12	22.24	22.23	22.11	22.23
1.4	QPSK	3	0	22.36	22.33	22.36	22.35	22.32	22.35
1.4	QPSK	3	1	22.4	22.44	22.4	22.39	22.43	22.39
1.4	QPSK	3	3	22.4	22.38	22.28	22.39	22.37	22.27
1.4	QPSK	6	0	21.34	21.46	21.36	21.33	21.45	21.35
1.4	16QAM	1	0	20.99	21.48	21.18	20.98	21.47	21.17
1.4	16QAM	1	3	21.18	21.51	21.25	21.17	21.5	21.24
1.4	16QAM	1	5	21.02	21.29	21.13	21.01	21.28	21.12
BW(MHz)	Modulation	RB Size	RB offset	POWER(dBm) Low Ch19965/1711.5MHz	POWER(dBm) Mid Ch20175/1732.5MHz	POWER(dBm) High Ch20385/1753.5MHz	EIRP Low Ch19965/1711.5MHz	EIRP Mid Ch20175/1732.5MHz	EIRP High Ch20385/1753.5MHz
3	QPSK	1	0	22.1	22.74	22.49	22.09	22.73	22.48
3	QPSK	1	7	21.91	22.7	22.51	21.9	22.69	22.5
3	QPSK	1	14	22.09	22.57	22.67	22.08	22.56	22.66
3	QPSK	8	0	20.92	21.76	21.66	20.91	21.75	21.65
3	QPSK	8	3	20.9	21.77	21.67	20.89	21.76	21.66
3	QPSK	8	7	21.03	21.69	21.64	21.02	21.68	21.63
3	QPSK	15	0	21.04	21.85	21.52	21.03	21.84	21.51
3	16QAM	1	0	21.31	21.73	21.59	21.3	21.72	21.58
3	16QAM	1	7	21.17	21.33	21.72	21.16	21.32	21.71
3	16QAM	1	14	20.8	21.27	21.56	20.79	21.26	21.55

BW(MHz)	Modulation	RB Size	RB offset	POWER(dBm) Low Ch19975/1712.5MHz	POWER(dBm) Mid Ch20175/1732.5MHz	POWER(dBm) High Ch20375/1752.5MHz	EIRP Low Ch19975/1712.5MHz	EIRP Mid Ch20175/1732.5MHz	EIRP High Ch20375/1752.5MHz
5	QPSK	1	0	21.94	22.33	22.22	21.93	22.32	22.21
5	QPSK	1	12	22.41	22.05	22.35	22.4	22.04	22.34
5	QPSK	1	24	22.36	22.08	22.26	22.35	22.07	22.25
5	QPSK	12	0	20.89	21.55	21.32	20.88	21.54	21.31
5	QPSK	12	6	21.05	21.4	21.4	21.04	21.39	21.39
5	QPSK	12	13	21.05	21.22	21.41	21.04	21.21	21.4
5	QPSK	25	0	20.95	21.35	21.4	20.94	21.34	21.39
5	16QAM	1	0	20.58	21.21	21.17	20.57	21.2	21.16
5	16QAM	1	12	20.7	21.25	21.22	20.69	21.24	21.21
5	16QAM	1	24	20.75	21	21.21	20.74	20.99	21.2
BW(MHz)	Modulation	RB Size	RB offset	POWER(dBm) Low Ch20000/1715MHz	POWER(dBm) Mid Ch20175/1732.5MHz	POWER(dBm) High Ch20350/1750MHz	EIRP Low Ch20000/1715MHz	EIRP Mid Ch20175/1732.5MHz	EIRP High Ch20350/1750MHz
10	QPSK	1	0	22.21	22.57	22.48	22.2	22.56	22.47
10	QPSK	1	24	22.6	22.53	22.91	22.59	22.52	22.9
10	QPSK	1	49	22.53	22.33	22.64	22.52	22.32	22.63
10	QPSK	25	0	21.28	21.55	21.3	21.27	21.54	21.29
10	QPSK	25	12	21.34	21.33	21.36	21.33	21.32	21.35
10	QPSK	25	25	21.27	21.2	21.38	21.26	21.19	21.37
10	QPSK	50	0	21.29	21.33	21.31	21.28	21.32	21.3
10	16QAM	1	0	20.95	21.23	21.08	20.94	21.22	21.07
10	16QAM	1	24	21.08	21.29	21.11	21.07	21.28	21.1
10	16QAM	1	49	21.31	20.97	21.32	21.3	20.96	21.31



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BW(MHz)	Modulation	RB Size	RB offset	POWER(dBm) Low Ch20025/1717.5MHz	POWER(dBm) Mid Ch20175/1732.5MHz	POWER(dBm) High Ch20325/1747.5MHz	EIRP Low Ch20025/1717.5MHz	EIRP Mid Ch20175/1732.5MHz	EIRP High Ch20325/1747.5MHz
15	QPSK	1	0	22.31	22.58	22.49	22.3	22.57	22.48
15	QPSK	1	37	22.94	22.82	22.61	22.93	22.81	22.6
15	QPSK	1	74	22.93	22.46	22.55	22.92	22.45	22.54
15	QPSK	36	0	21.34	21.88	21.07	21.33	21.87	21.06
15	QPSK	36	19	21.4	21.63	21.11	21.39	21.62	21.1
15	QPSK	36	39	21.42	21.45	21.12	21.41	21.44	21.11
15	QPSK	75	0	21.5	21.52	21.11	21.49	21.51	21.1
15	16QAM	1	0	21.15	21.46	21.04	21.14	21.45	21.03
15	16QAM	1	37	21.08	21.83	20.94	21.07	21.82	20.93
15	16QAM	1	74	21.37	21.3	21.09	21.36	21.29	21.08
BW(MHz)	Modulation	RB Size	RB offset	POWER(dBm) Low Ch20050/1720MHz	POWER(dBm) Mid Ch20175/1732.5MHz	POWER(dBm) High Ch20300/1745MHz	EIRP Low Ch20050/1720MHz	EIRP Mid Ch20175/1732.5MHz	EIRP High Ch20300/1745MHz
20	QPSK	1	0	21.99	22.32	22.35	21.98	22.31	22.34
20	QPSK	1	49	22.58	22.34	22.5	22.57	22.33	22.49
20	QPSK	1	99	22.23	22.17	22.55	22.22	22.16	22.54
20	QPSK	50	0	21.22	21.29	21.34	21.21	21.28	21.33
20	QPSK	50	25	21.17	21.16	21.25	21.16	21.15	21.24
20	QPSK	50	50	21.27	21.07	21.21	21.26	21.06	21.2
20	QPSK	100	0	21.11	21.07	21.38	21.1	21.06	21.37
20	16QAM	1	0	20.73	21.15	21.21	20.72	21.14	21.2
20	16QAM	1	49	20.93	21.41	21.06	20.92	21.4	21.05
20	16QAM	1	99	20.98	20.87	21.08	20.97	20.86	21.07

Band 12

BW(MHz)	Modulation	RB Size	RB offset	POWER(dBm) Low Ch23017/699.7MHz	POWER(dBm) Mid Ch23095/707.5MHz	POWER(dBm) High Ch23173/715.3MHz	ERP Low Ch23017/699.7MHz	ERP Mid Ch23095/707.5MHz	ERP High Ch23173/715.3MHz
1.4	QPSK	1	0	23.35	23.45	23.03	21.29	21.39	20.97
1.4	QPSK	1	3	23.5	23.66	23.21	21.44	21.6	21.15
1.4	QPSK	1	5	23.39	23.26	23.27	21.33	21.2	21.21
1.4	QPSK	3	0	23.57	23.64	23.23	21.51	21.58	21.17
1.4	QPSK	3	1	23.36	23.65	23.46	21.3	21.59	21.4
1.4	QPSK	3	3	23.51	23.73	23.55	21.45	21.67	21.49
1.4	QPSK	6	0	22.45	22.6	23.31	20.39	20.54	21.25
1.4	16QAM	1	0	22.31	22.29	22.1	20.25	20.23	20.04
1.4	16QAM	1	3	22.52	22.51	22.34	20.46	20.45	20.28
1.4	16QAM	1	5	22.27	22.3	22.24	20.21	20.24	20.18
BW(MHz)	Modulation	RB Size	RB offset	POWER(dBm) Low Ch23025/700.5MHz	POWER(dBm) Mid Ch23095/707.5MHz	POWER(dBm) High Ch23165/714.5MHz	ERP Low Ch23025/700.5MHz	ERP Mid Ch23095/707.5MHz	ERP High Ch23165/714.5MHz
3	QPSK	1	0	23.41	23.39	22.84	21.35	21.33	20.78
3	QPSK	1	7	23.62	23.51	23.3	21.56	21.45	21.24
3	QPSK	1	14	23.25	23.52	23.27	21.19	21.46	21.21
3	QPSK	8	0	22.41	22.5	22.25	20.35	20.44	20.19
3	QPSK	8	3	22.47	22.54	22.2	20.41	20.48	20.14
3	QPSK	8	7	22.55	22.53	22.24	20.49	20.47	20.18
3	QPSK	15	0	22.46	22.54	22.18	20.4	20.48	20.12
3	16QAM	1	0	22.31	22.19	22.08	20.25	20.13	20.02
3	16QAM	1	7	21.97	22.12	22.07	19.91	20.06	20.01
3	16QAM	1	14	22.06	22.18	22.04	20	20.12	19.98



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BW(MHz)	Modulation	RB Size	RB offset	POWER(dBm) Low Ch23035/701.5MHz	POWER(dBm) Mid Ch23095/707.5MHz	POWER(dBm) High Ch23155/713.5MHz	ERP Low Ch23035/701.5MHz	ERP Mid Ch23095/707.5MHz	ERP High Ch23155/713.5MHz
5	QPSK	1	0	23.18	22.99	22.96	21.12	20.93	20.9
5	QPSK	1	12	23.3	23.5	23.23	21.24	21.44	21.17
5	QPSK	1	24	23.29	23.23	23.04	21.23	21.17	20.98
5	QPSK	12	0	22.35	22.42	22.13	20.29	20.36	20.07
5	QPSK	12	6	22.23	22.47	22.2	20.17	20.41	20.14
5	QPSK	12	13	22.21	22.48	22.19	20.15	20.42	20.13
5	QPSK	25	0	22.37	22.52	22.03	20.31	20.46	19.97
5	16QAM	1	0	22.23	21.94	22.13	20.17	19.88	20.07
5	16QAM	1	12	22.05	22.24	22.2	19.99	20.18	20.14
5	16QAM	1	24	21.61	21.93	21.94	19.55	19.87	19.88
BW(MHz)	Modulation	RB Size	RB offset	POWER(dBm) Low Ch23060/704MHz	POWER(dBm) Mid Ch23095/707.5MHz	POWER(dBm) High Ch23130/711MHz	ERP Low Ch23060/704MHz	ERP Mid Ch23095/707.5MHz	ERP High Ch23130/711MHz
10	QPSK	1	0	23.31	23.26	23.25	21.25	21.2	21.19
10	QPSK	1	24	23.73	23.59	23.67	21.67	21.53	21.61
10	QPSK	1	49	23.55	23.49	23.23	21.49	21.43	21.17
10	QPSK	25	0	22.38	22.28	22.47	20.32	20.22	20.41
10	QPSK	25	12	22.37	22.52	22.39	20.31	20.46	20.33
10	QPSK	25	25	22.53	22.38	22.11	20.47	20.32	20.05
10	QPSK	50	0	22.32	22.36	22.31	20.26	20.3	20.25
10	16QAM	1	0	22.05	21.82	22.14	19.99	19.76	20.08
10	16QAM	1	24	22.17	22.1	22.24	20.11	20.04	20.18
10	16QAM	1	49	22.19	21.66	21.83	20.13	19.6	19.77

Note:

EIRP = Conducted power + antenna gain

ERP = EIRP -2.15

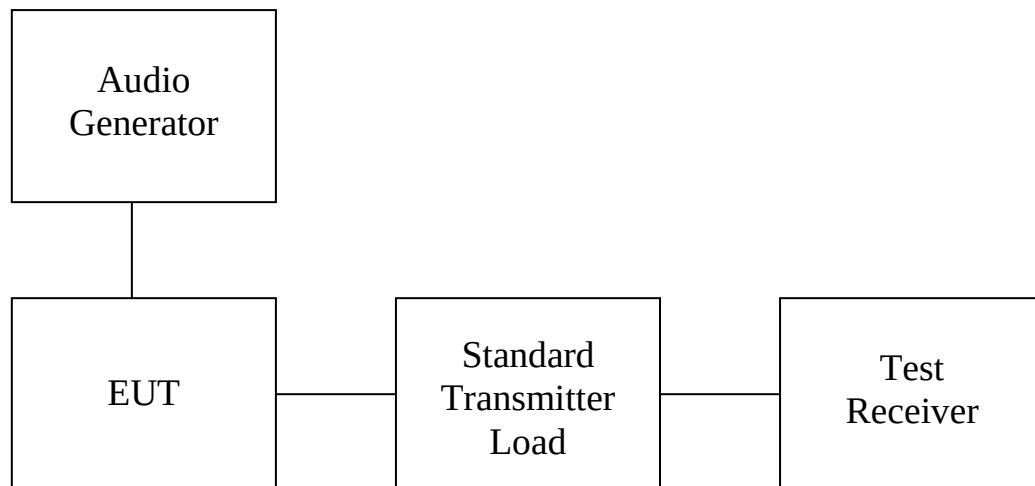
Registration number: W6M22512-24856-C-247

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4 Modulation Characteristics

4.1 Test procedure

- ☐ A curve or equivalent data showing the frequency response of the audio modulating circuit over a range of 100 to 5000 Hz shall be submitted.
The audio signal generator is connected to the audio input of the EUT with its full rating. The modulation response is measured at certain modulation frequencies, related to 1000Hz reference signal. Tests are performed for positive and negative modulation.
- ☐ Equipment which employs modulation Limiting: A curve or family of curves showing the percentage of modulation versus the modulation input voltage shall be supplied. The audio signal generator is connected to the audio input of the EUT with its full rating. The modulation limiting is measured at certain modulation frequencies from 100Hz to 15kHz.



4.2 Test Results

For digital modulation employed, this test item is not applicable.

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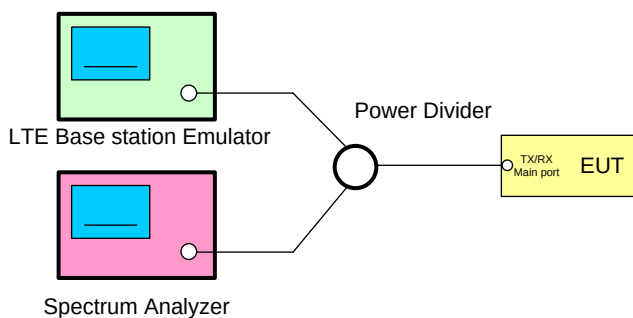
5 Peak-to-Average Ratio

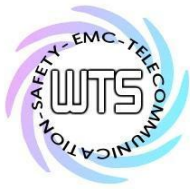
The peak-to-average power ratio (PAPR) of the transmitter output power must not exceed 13 dB. The PAPR measurements should be made using either an instrument with complementary cumulative distribution function (CCDF) capabilities to determine that PAPR will not exceed 13 dB for more than 0.1 percent of the time or other Commission approved procedure. The measurement must be performed using a signal corresponding to the highest PAPR expected during periods of continuous transmission.

5.1 Test procedure

1. The EUT main port was connected to the LTE emulator and spectrum analyzer via power divider
2. For Spectrum Analyzer setting :
3. Set the CCDF function in spectrum analyzer.
4. Set RBW $\geq$ signal's occupied bandwidth.
5. Set the number of counts to a value that stabilizes the measured CCDF curve.
6. Set the measurement interval (sweep time) to 1ms.
7. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1%
8. Record the deviation as Peak to Average Ratio.

5.2 Test Set up





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5.3 Test Results

Test date: December 20, 2025

Temperature: 23.2 °C

Humidity: 57.2 %

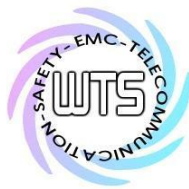
Tester: Rick

Band 2

20 MHz

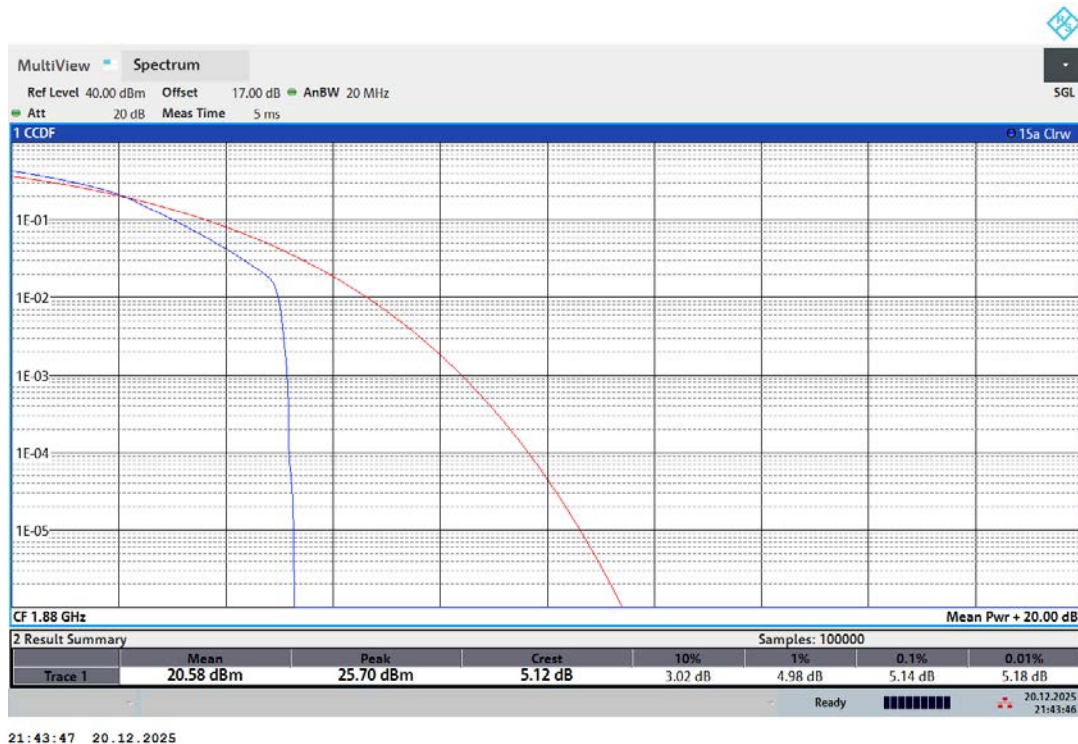
16QAM

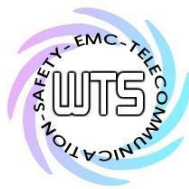




Registration number: W6M22512-24856-C-247

FCC ID: GX9HSGWMAXF1919





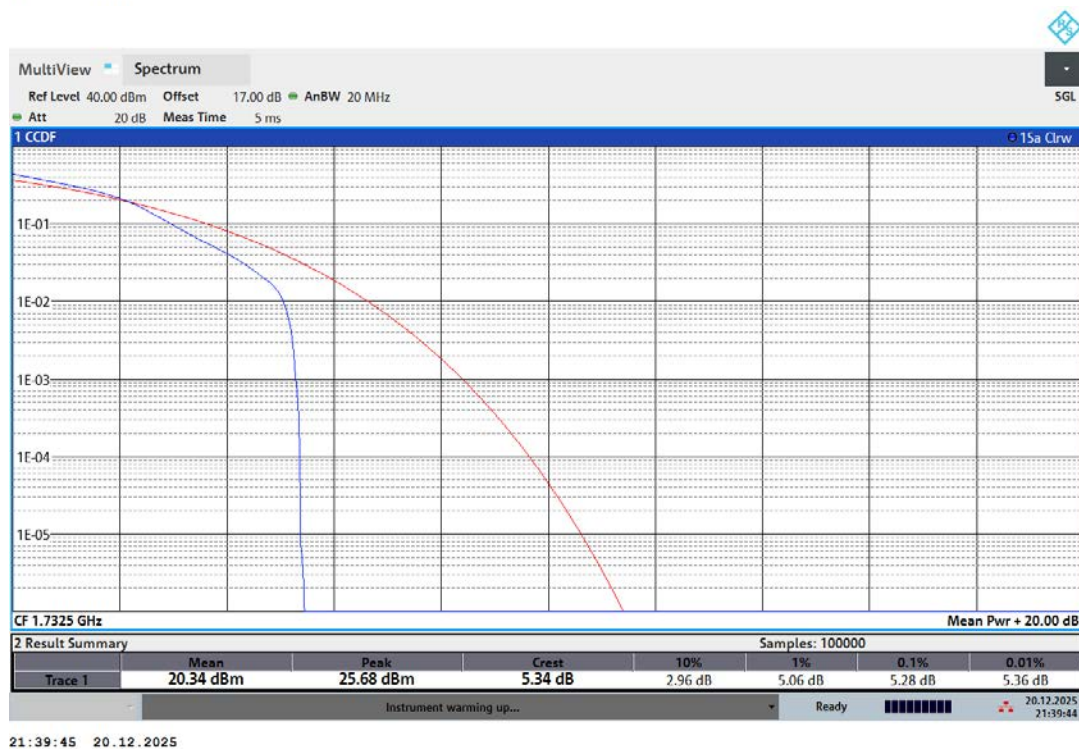
Registration number: W6M22512-24856-C-247

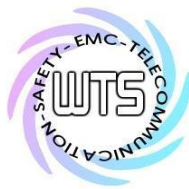
FCC ID: GX9HSGWMAXF1919

Band 4

20 MHz

16QAM



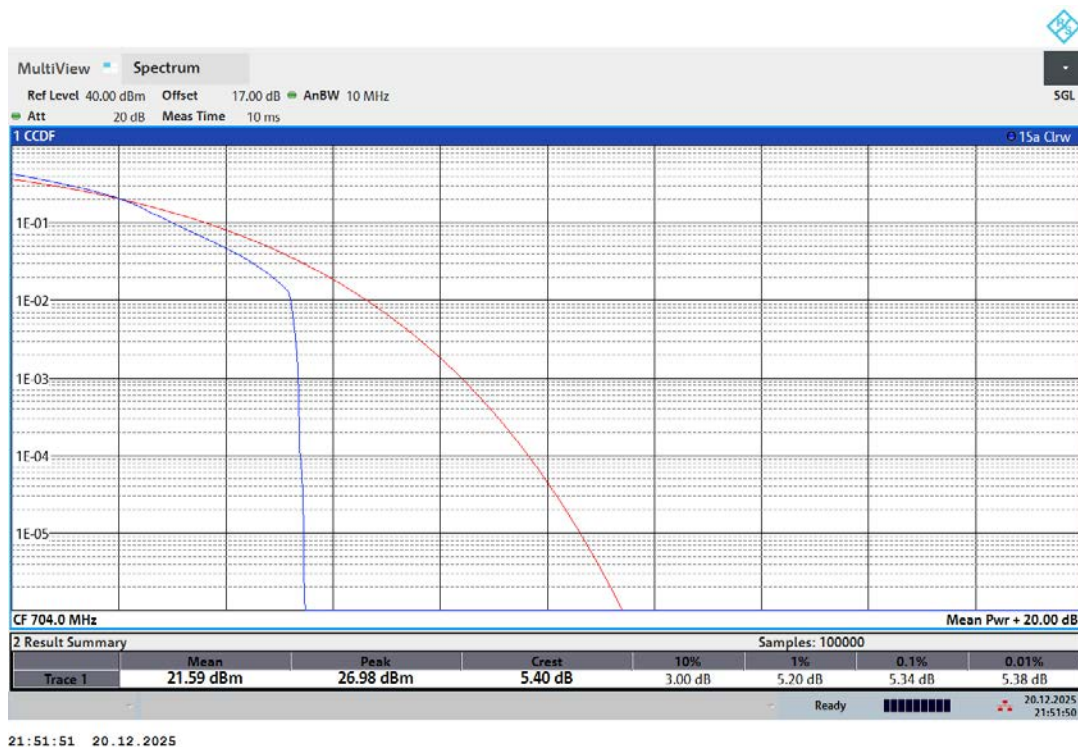


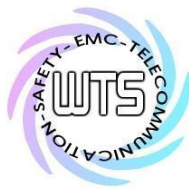
Registration number: W6M22512-24856-C-247

FCC ID: GX9HSGWMAXF1919



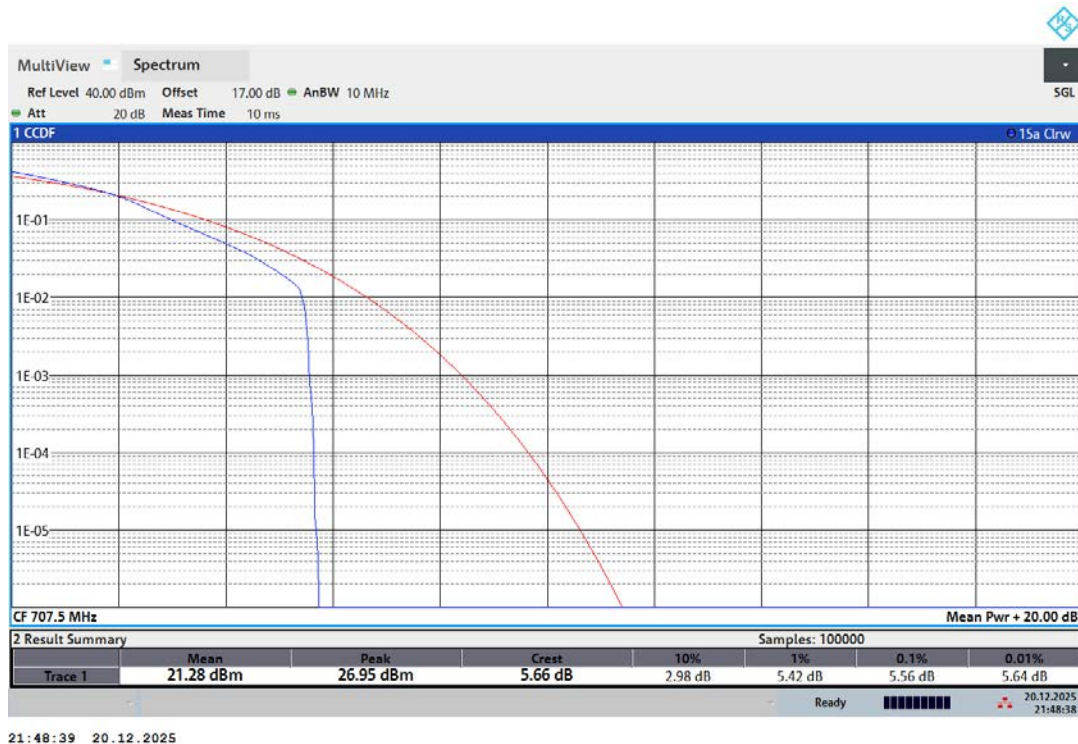
Band 12
10 MHz
16QAM





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Limit according to FCC §24.232 and §27.50, The peak-to-average ratio(PAR) of the transmission may not exceed 13dB.

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6 Occupied Bandwidth

The occupied bandwidth (OBW) is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to a specified percentage 0.5% of the total mean transmitted power.

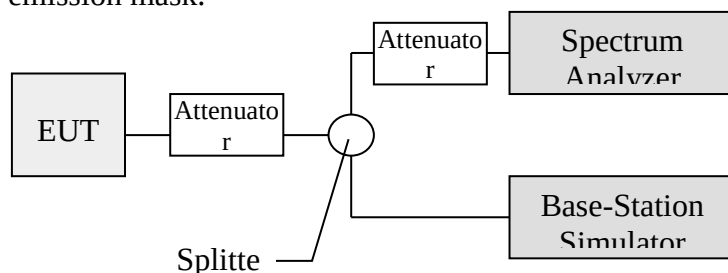
The 26 dB occupied bandwidth is the width of a frequency band such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal 26 dB.

The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

6.1 Test procedure

The RF output of the transceiver was connected as the following figure.

Occupied Bandwidth was measured with a occupied bandwidth function of the analyzer at 99% power was occupied. Then set the spectrum analyzer to cover the upper and lower band edges to measure emission mask.





Registration number: W6M22512-24856-C-247

FCC ID: GX9HSGWMAXF1919

6.2 Test Results

Test date: December 19, 2025

Temperature: 22.1 °C

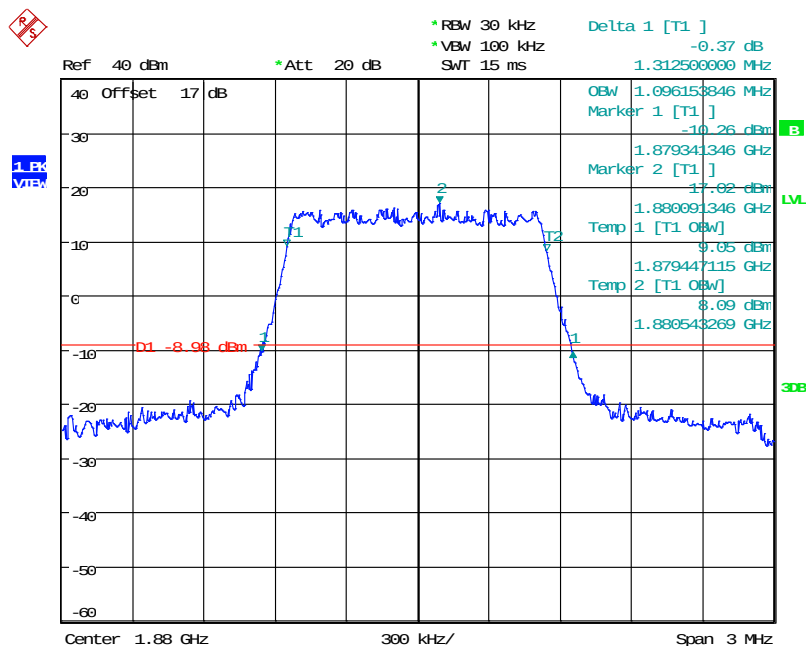
Humidity: 58.9 %

Tester: Rick

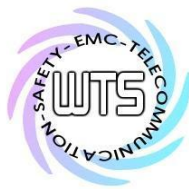
Band 2

1.4 MHz

QPSK



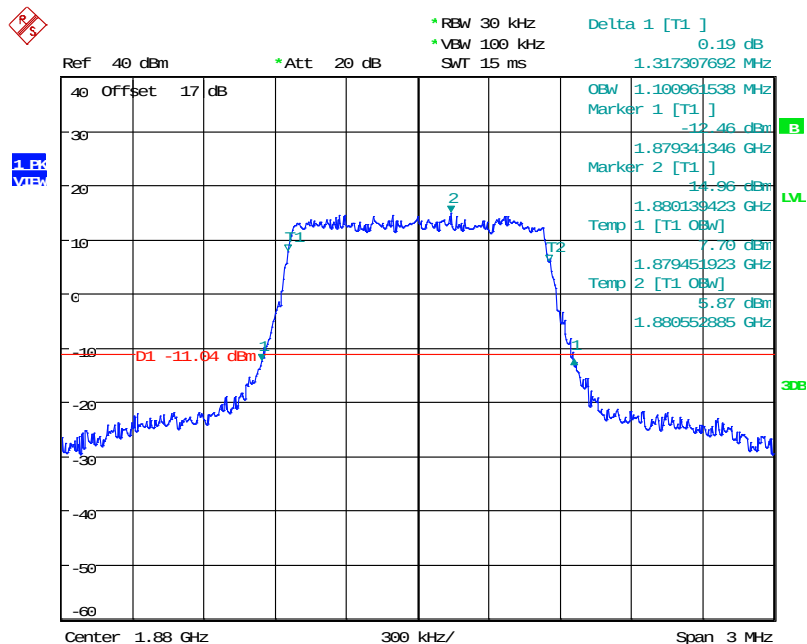
Date: 19.DEC.2025 21:24:36



Registration number: W6M22512-24856-C-247

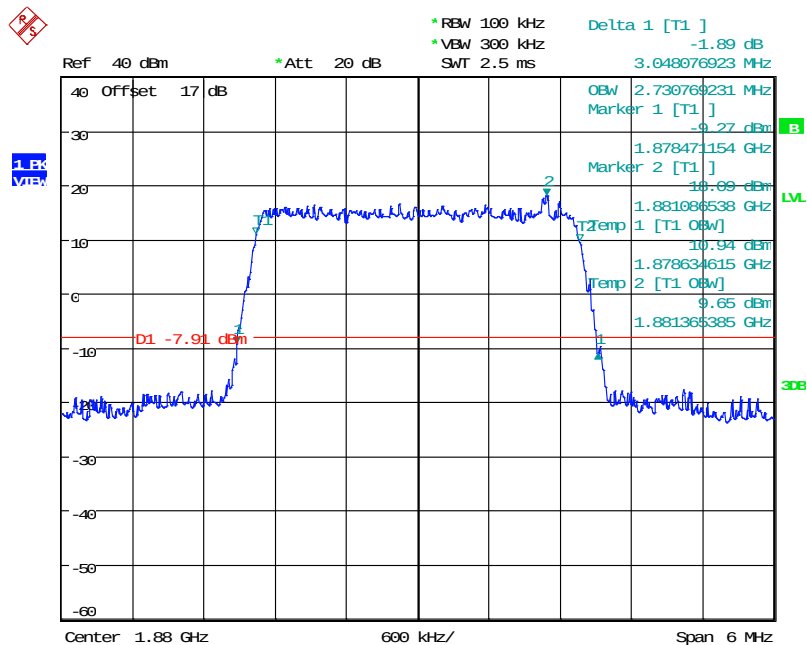
FCC ID: GX9HSGWMAXF1919

16QAM



Date: 19. DEC. 2025 21:22:57

3 MHz
QPSK



Date: 19. DEC. 2025 22:05:18

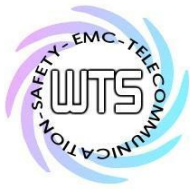


16QAM

Date: 19.DEC.2025 21:30:55

QPSK

Date: 19.DEC.2025 21:33:26

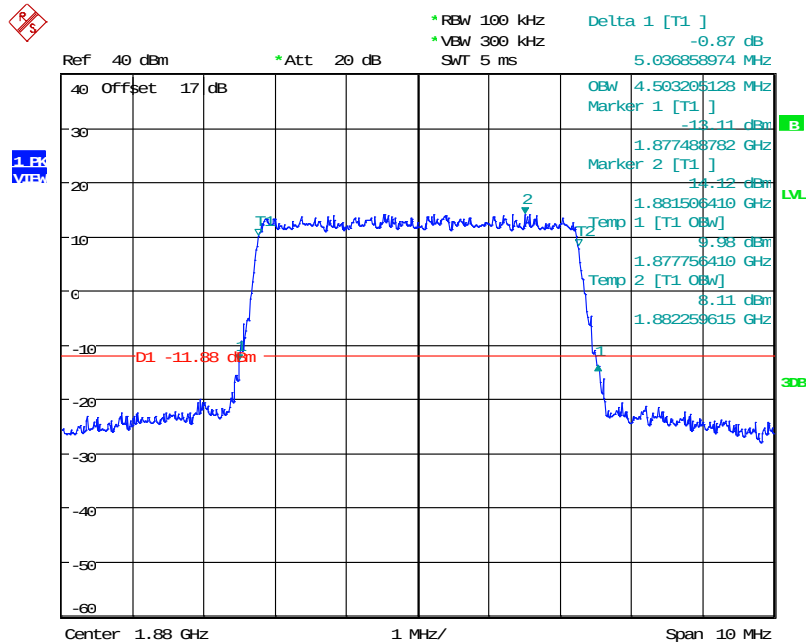


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22512-24856-C-247

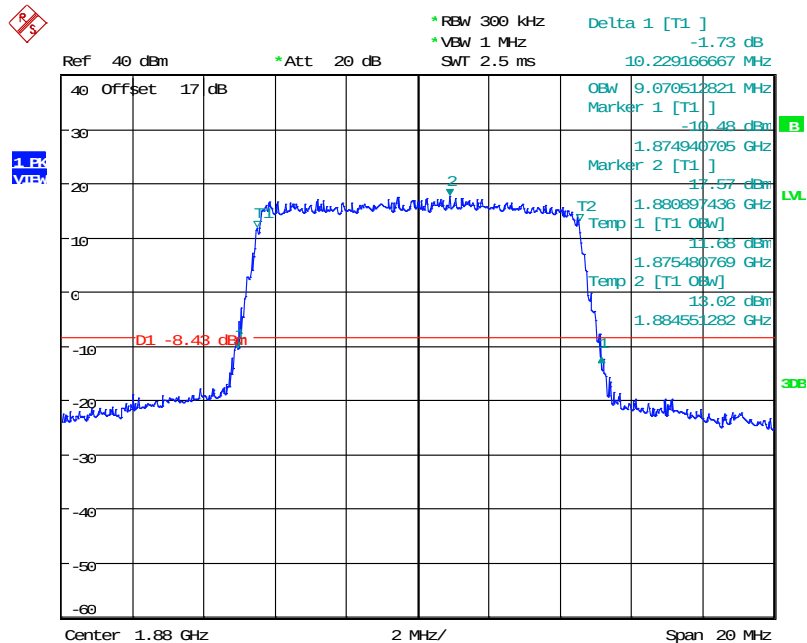
FCC ID: GX9HSGWMAXF1919

16QAM

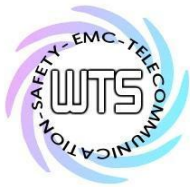


Date: 19. DEC. 2025 21:32:31

10 MHz
QPSK



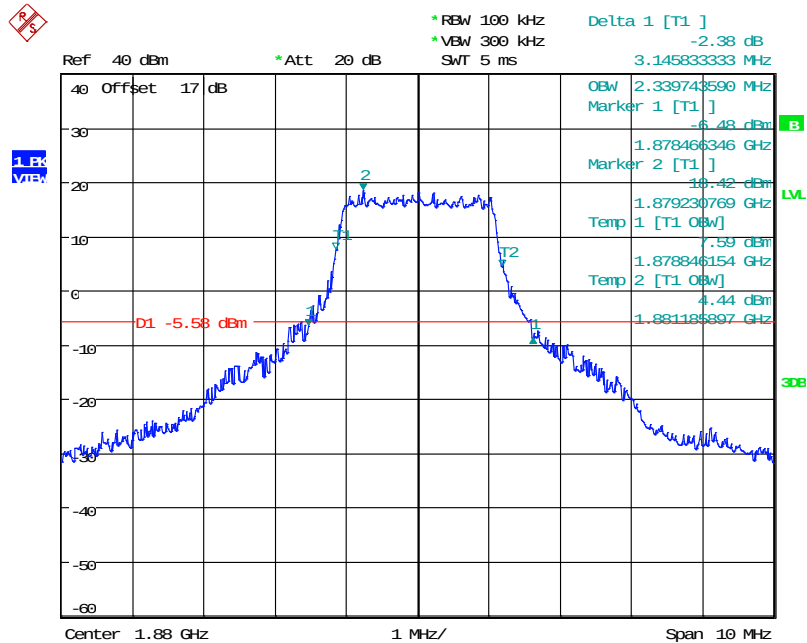
Date: 19. DEC. 2025 21:37:12



Registration number: W6M22512-24856-C-247

FCC ID: GX9HSGWMAXF1919

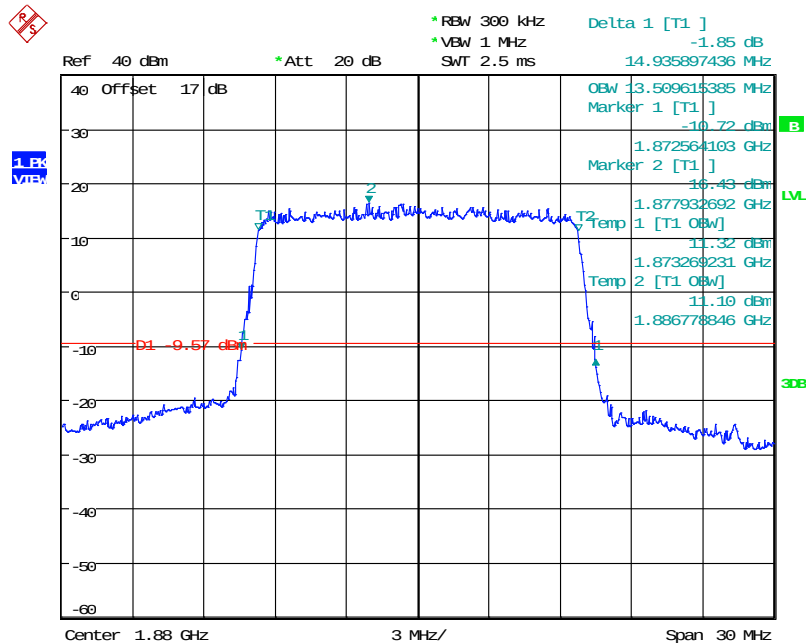
16QAM



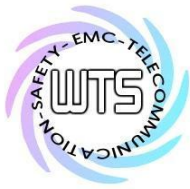
Date: 19. DEC. 2025 21:35:42

15 MHz

QPSK



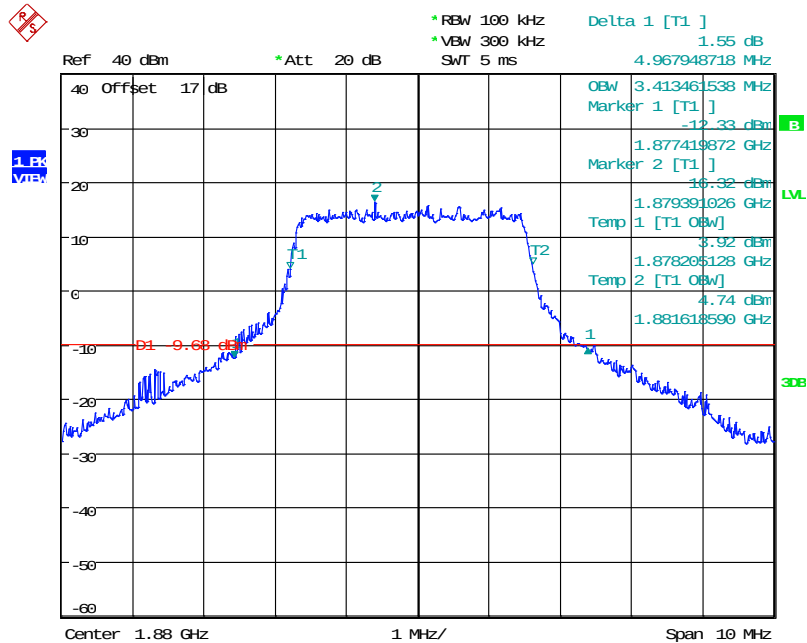
Date: 19. DEC. 2025 22:20:17



Registration number: W6M22512-24856-C-247

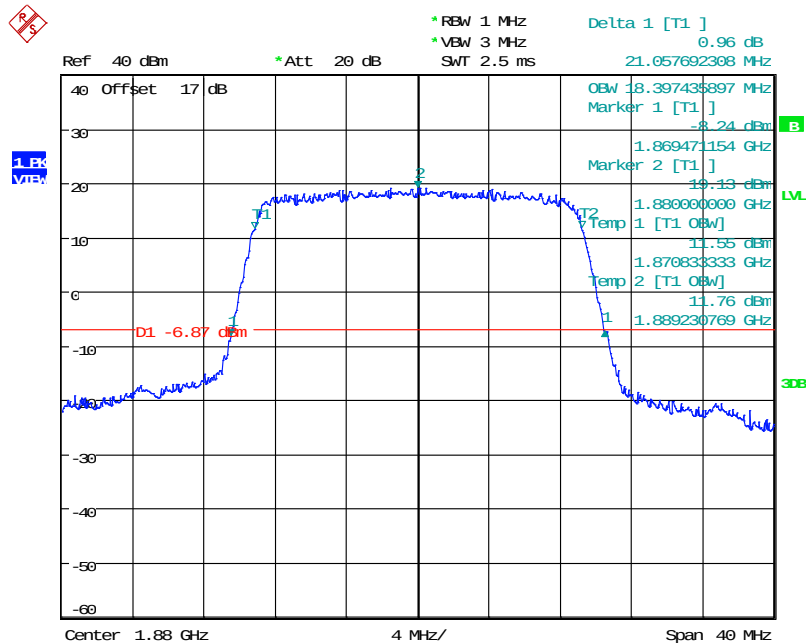
FCC ID: GX9HSGWMAXF1919

16QAM

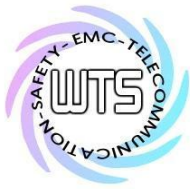


Date: 19. DEC. 2025 21:41:18

20 MHz
QPSK



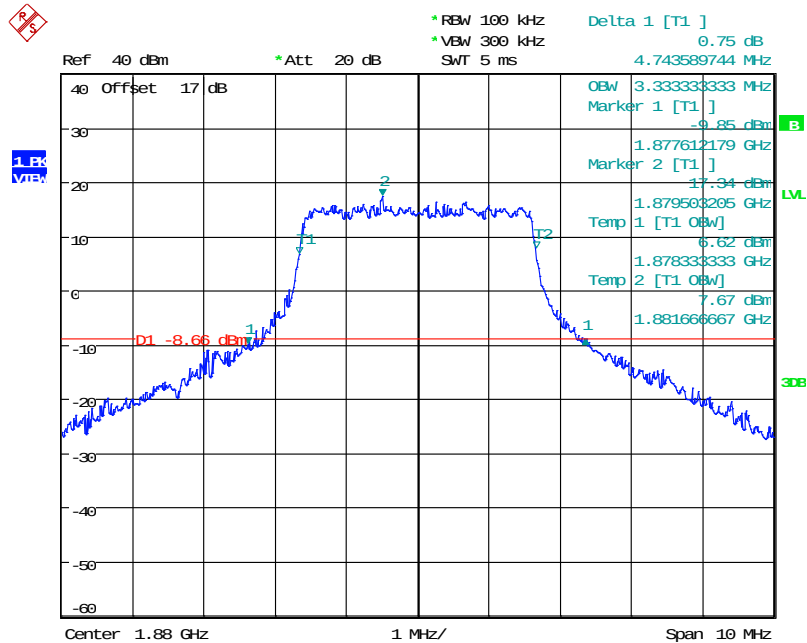
Date: 19. DEC. 2025 21:51:02



Registration number: W6M22512-24856-C-247

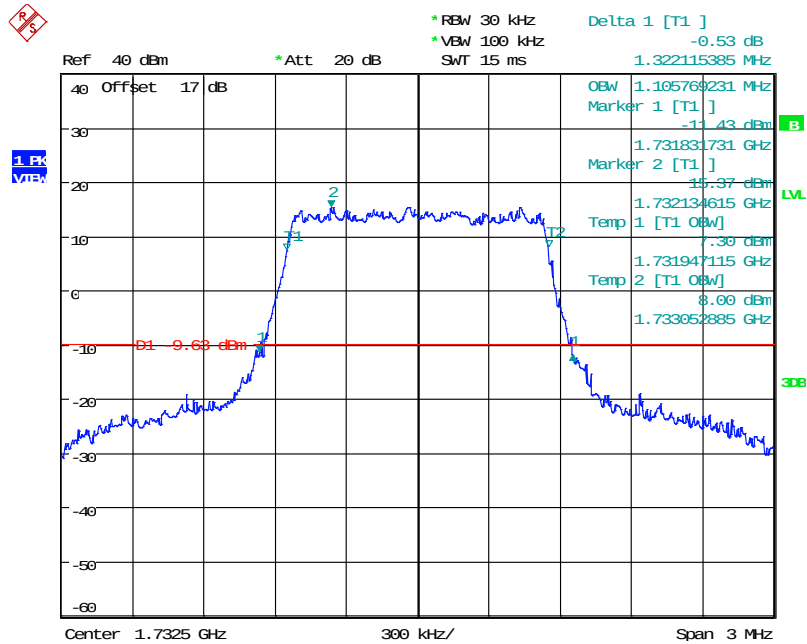
FCC ID: GX9HSGWMAXF1919

16QAM



Date: 19.DEC.2025 22:15:59

Band 4
1.4 MHz
QPSK



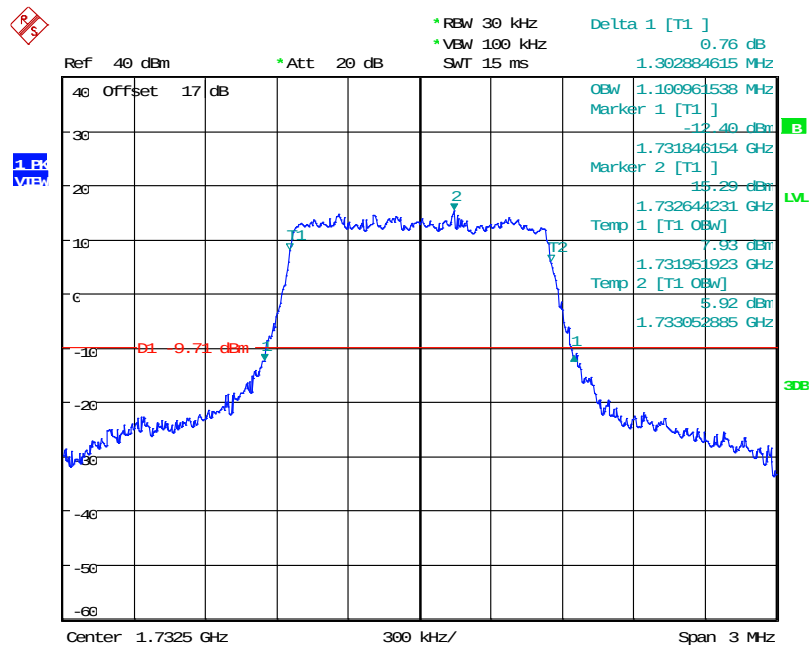
Date: 20.DEC.2025 21:56:04



Registration number: W6M22512-24856-C-247

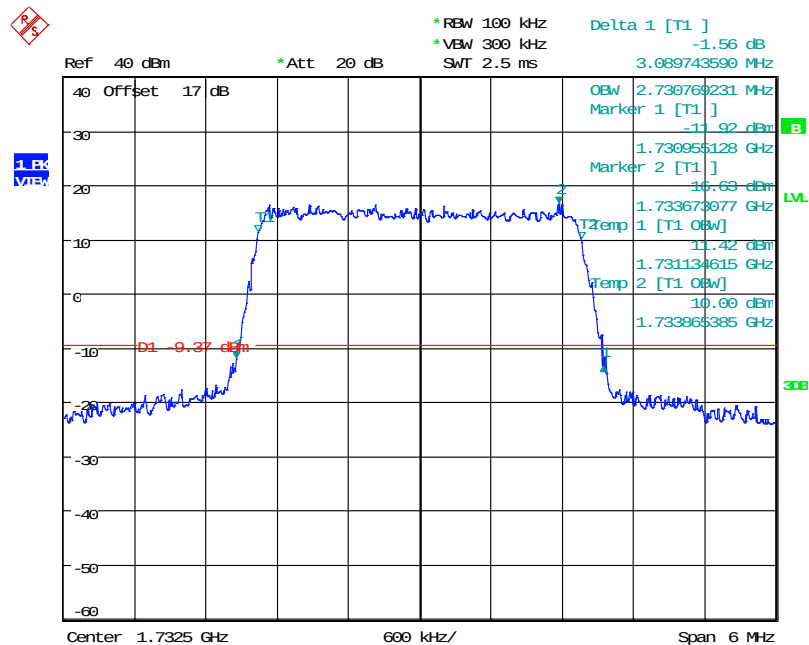
FCC ID: GX9HSGWMAXF1919

16QAM

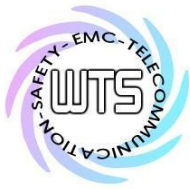


Date: 20.DEC.2025 21:57:42

3 MHz
QPSK



Date: 20.DEC.2025 21:54:52

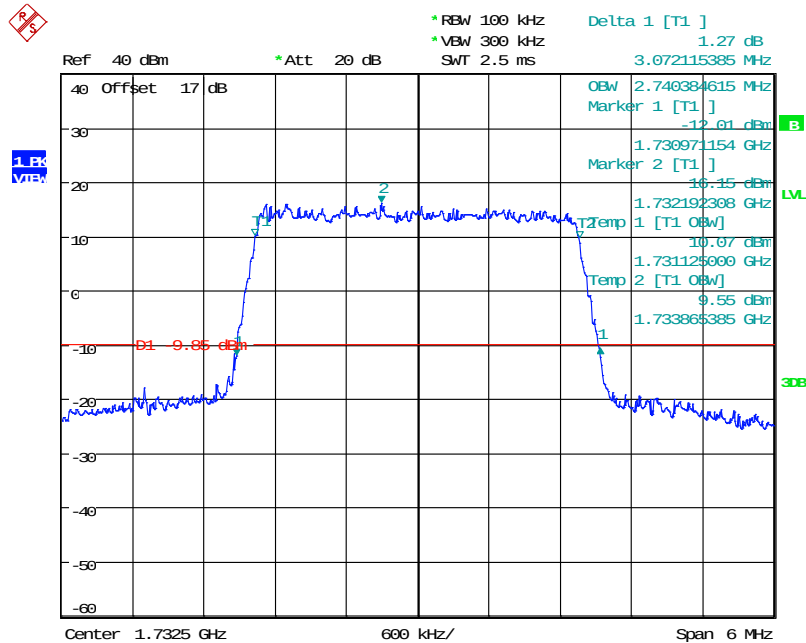


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22512-24856-C-247

FCC ID: GX9HSGWMAXF1919

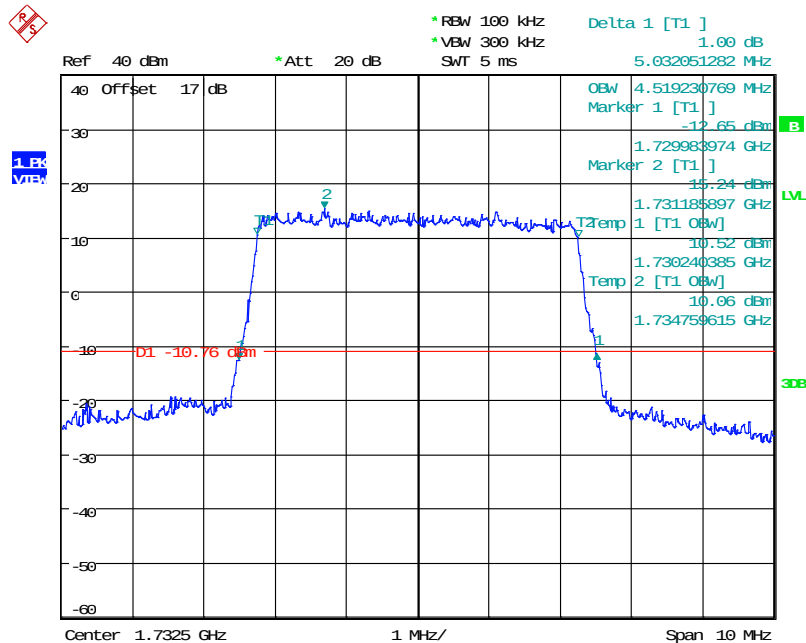
16QAM



Date: 20.DEC.2025 22:00:35

5 MHz

QPSK



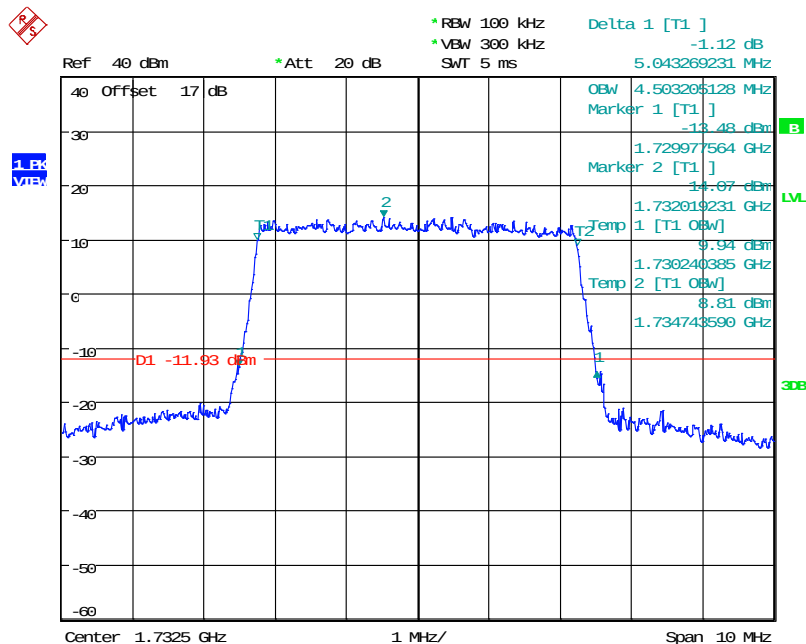
Date: 20.DEC.2025 21:53:51



Registration number: W6M22512-24856-C-247

FCC ID: GX9HSGWMAXF1919

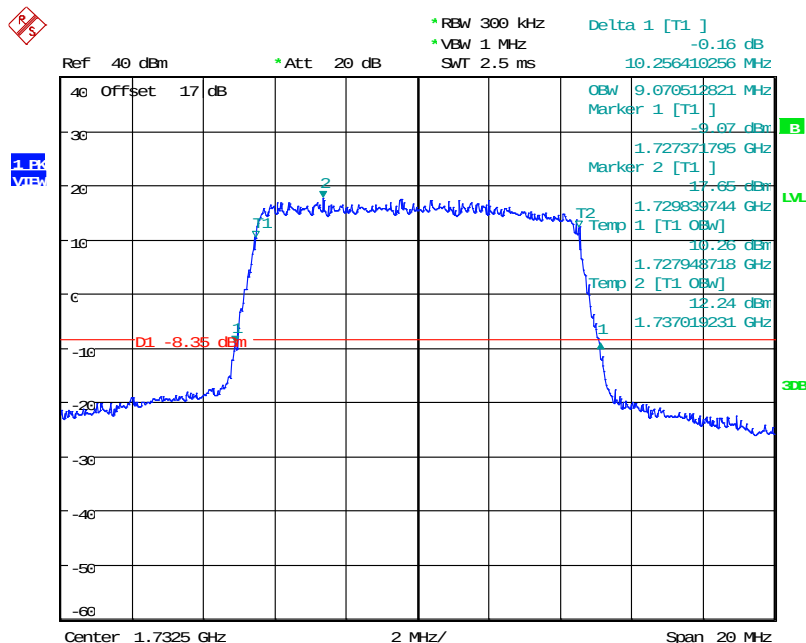
16QAM



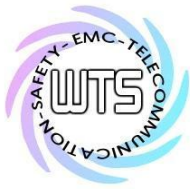
Date: 20.DEC.2025 22:02:07

10 MHz

QPSK



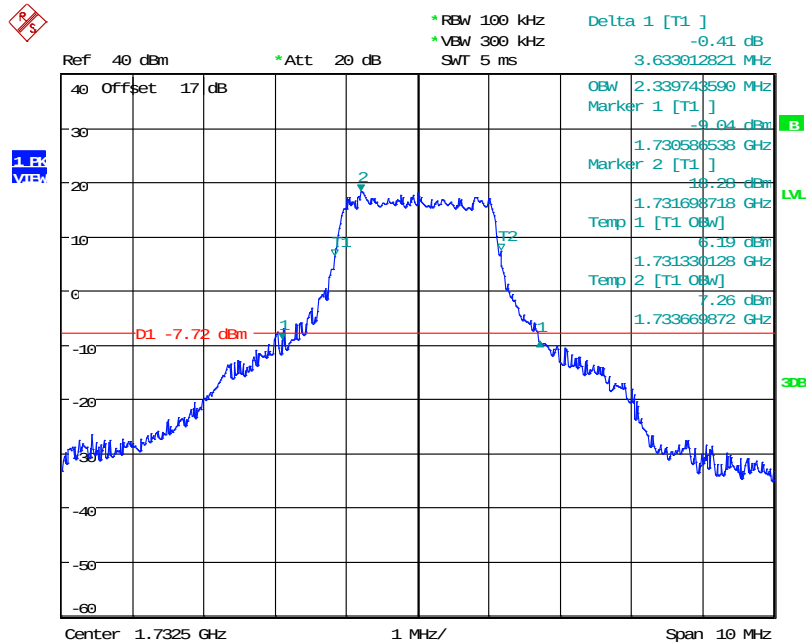
Date: 20.DEC.2025 21:52:32



Registration number: W6M22512-24856-C-247

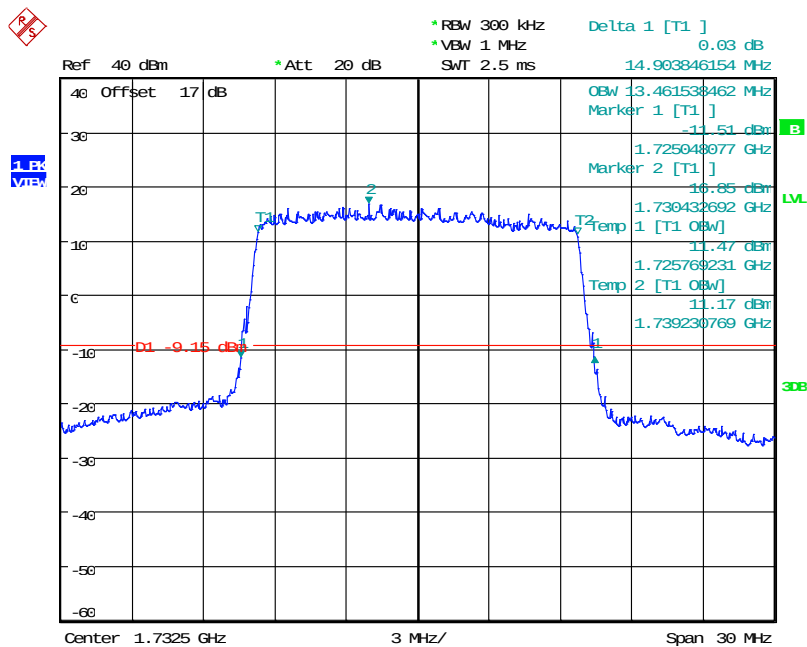
FCC ID: GX9HSGWMAXF1919

16QAM



Date: 20.DEC.2025 22:04:08

15 MHz
QPSK



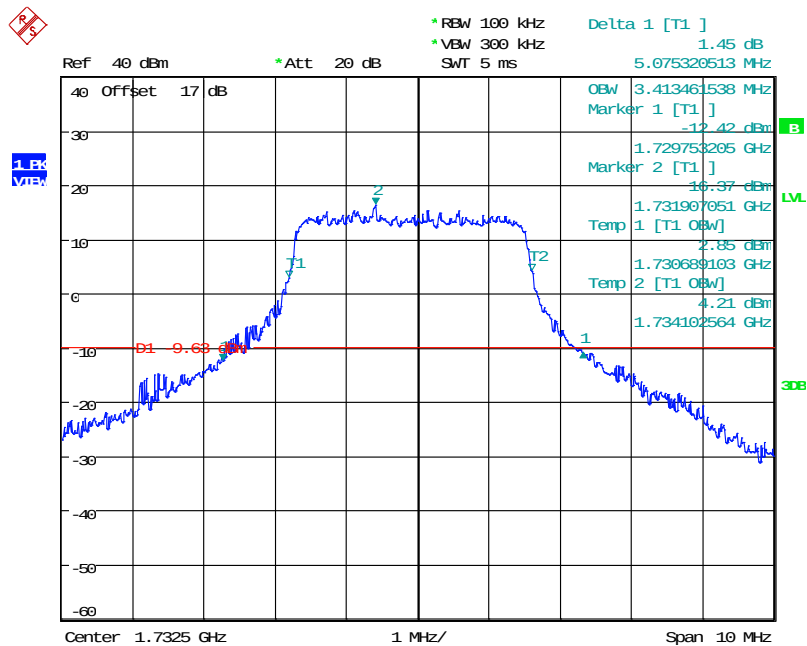
Date: 20.DEC.2025 21:48:53



Registration number: W6M22512-24856-C-247

FCC ID: GX9HSGWMAXF1919

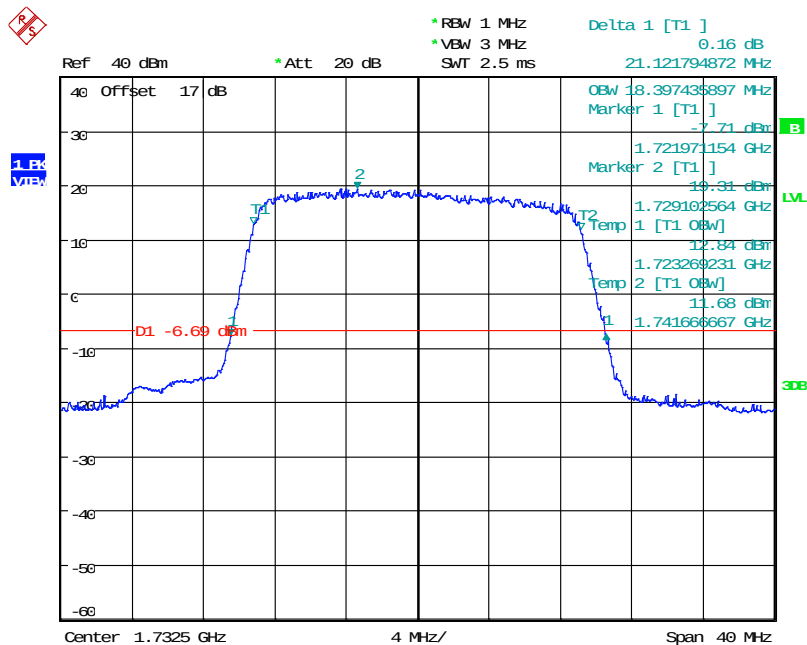
16QAM



Date: 20.DEC.2025 22:06:30

20 MHz

QPSK



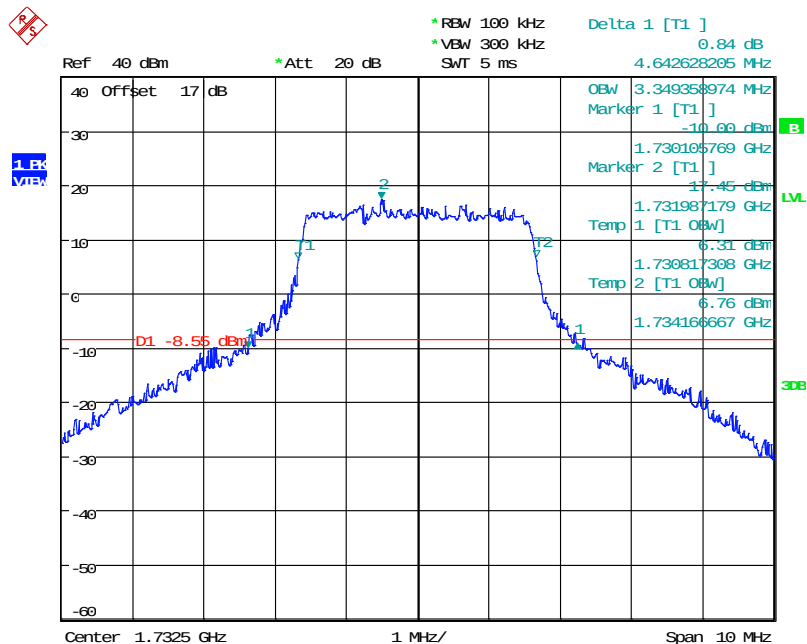
Date: 20.DEC.2025 21:50:46



Registration number: W6M22512-24856-C-247

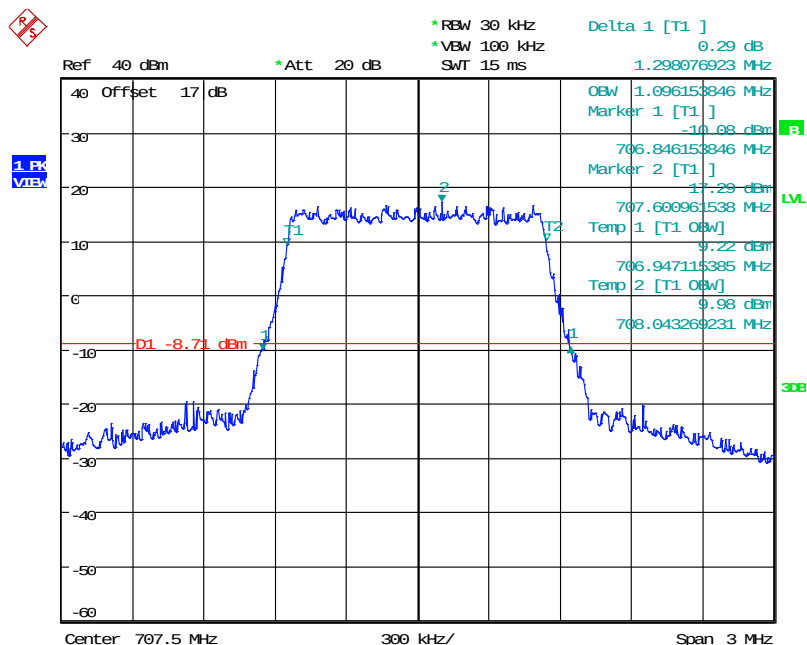
FCC ID: GX9HSGWMAXF1919

16QAM



Date: 20.DEC.2025 22:09:22

Band 12
1.4 MHz
QPSK



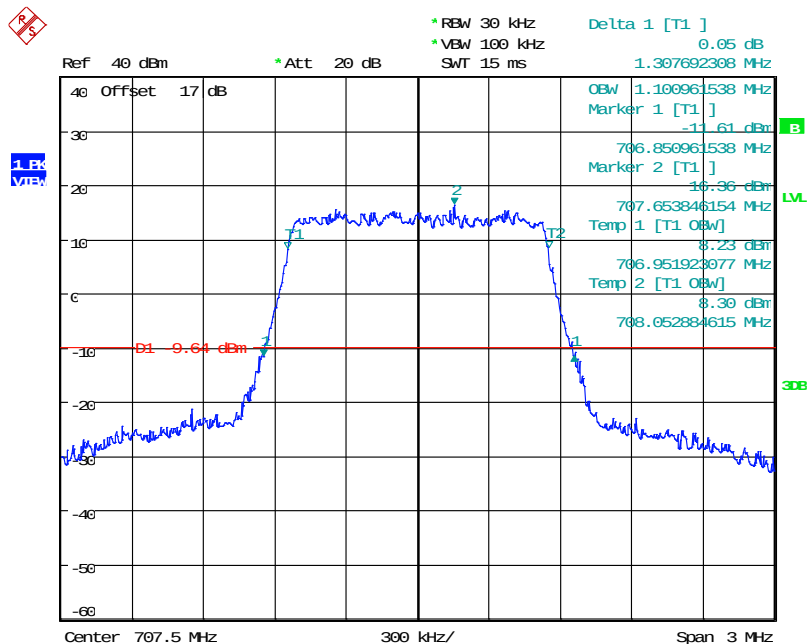
Date: 19.DEC.2025 21:20:23



Registration number: W6M22512-24856-C-247

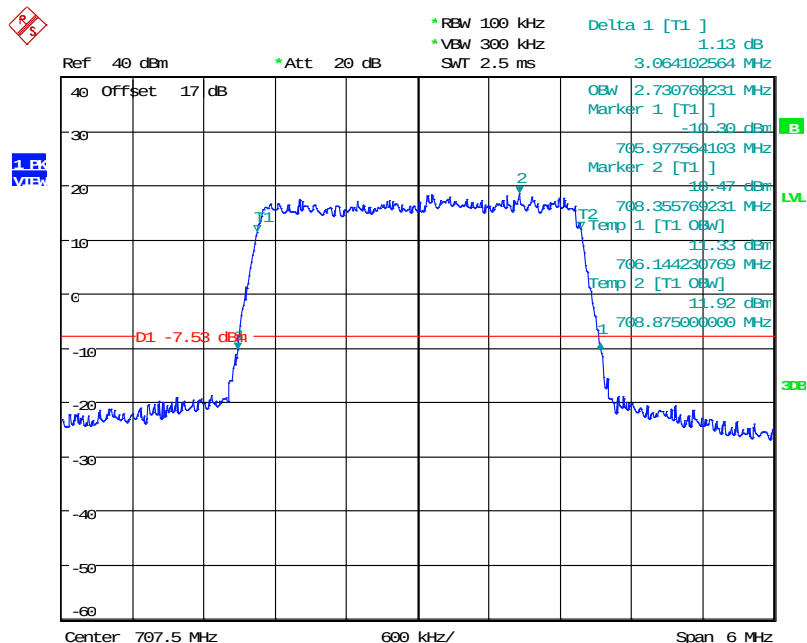
FCC ID: GX9HSGWMAXF1919

16QAM

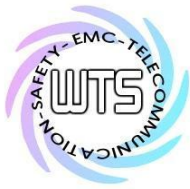


Date: 19.DEC.2025 21:21:27

3 MHz
QPSK



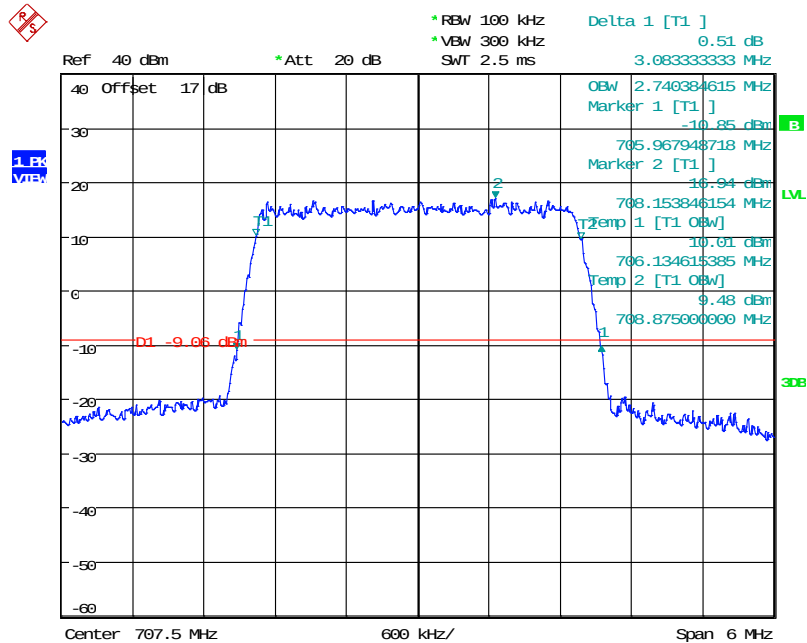
Date: 19.DEC.2025 21:18:25



Registration number: W6M22512-24856-C-247

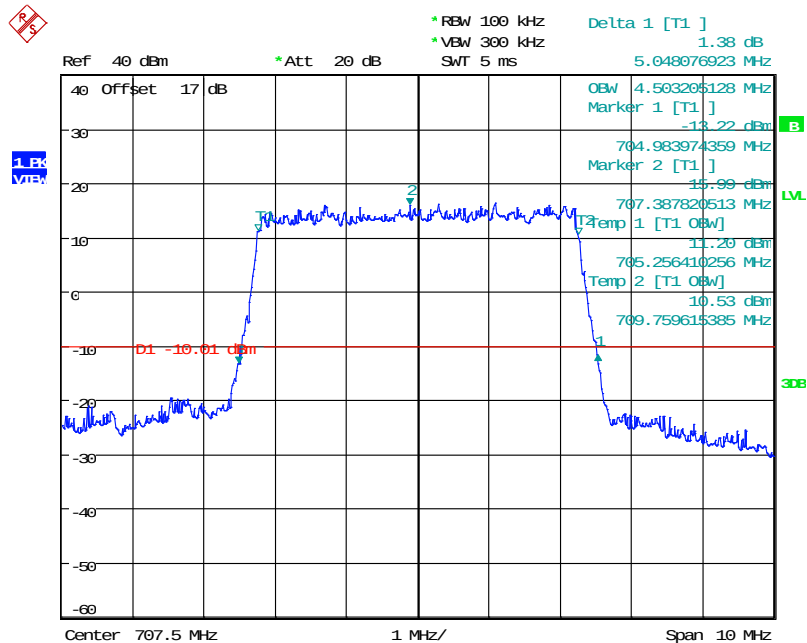
FCC ID: GX9HSGWMAXF1919

16QAM

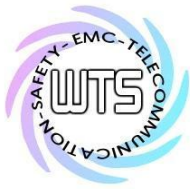


Date: 19. DEC. 2025 21:17:15

5 MHz
QPSK



Date: 19. DEC. 2025 21:14:09

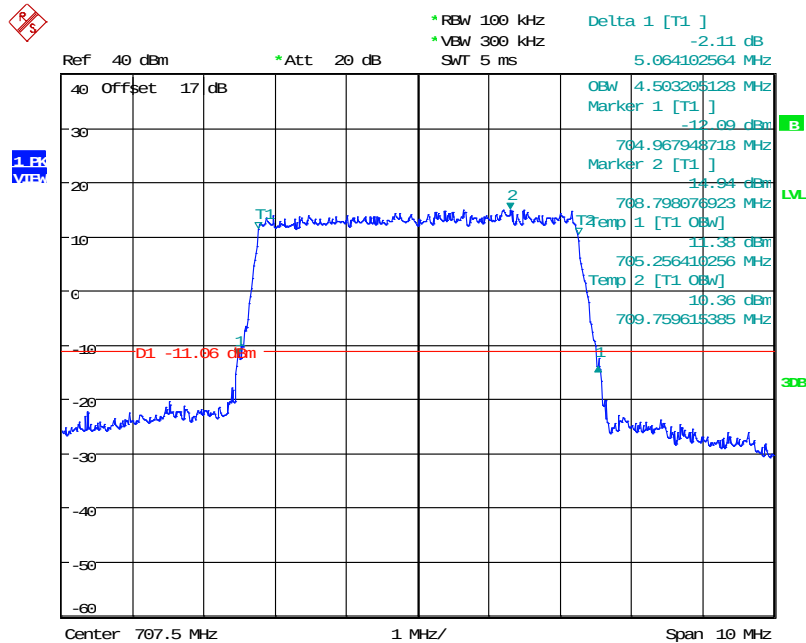


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22512-24856-C-247

FCC ID: GX9HSGWMAXF1919

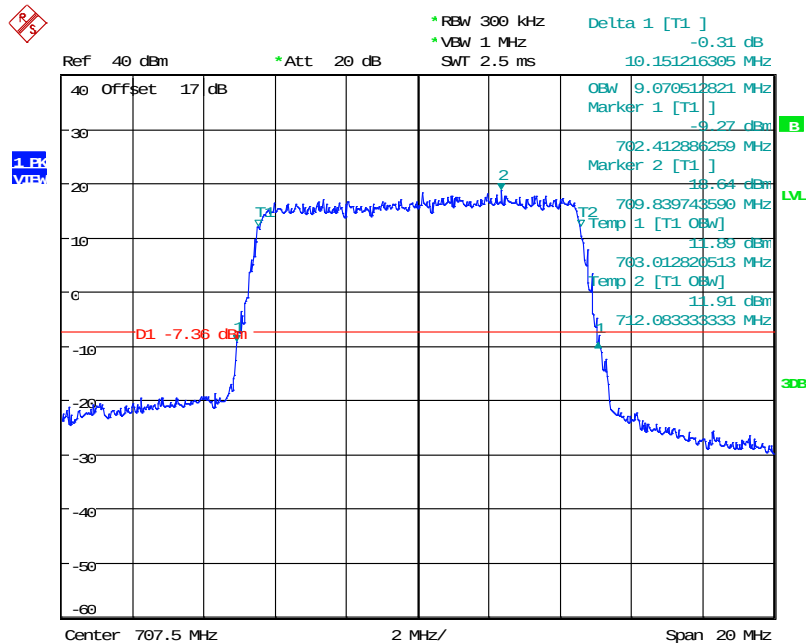
16QAM



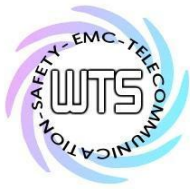
Date: 19. DEC. 2025 21:15:21

10 MHz

QPSK



Date: 19. DEC. 2025 21:08:08

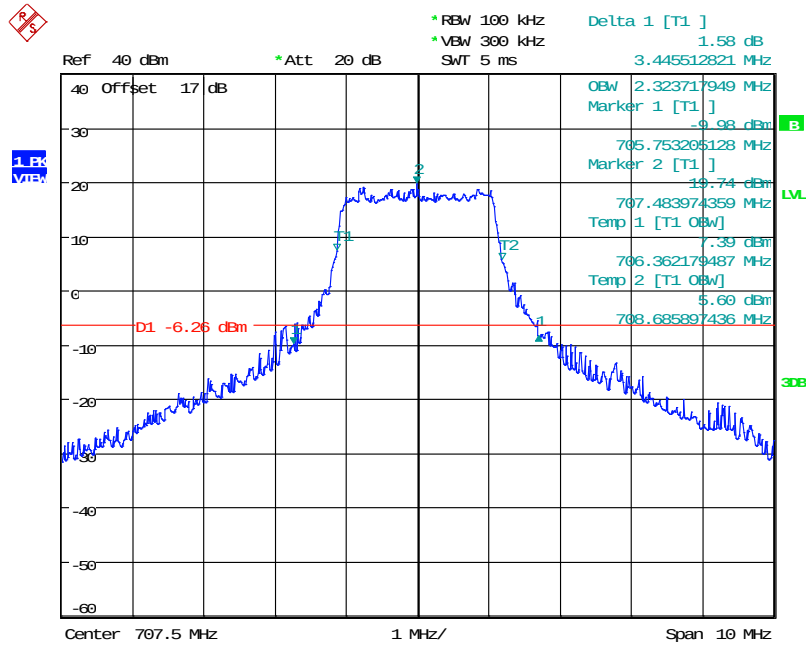


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22512-24856-C-247

FCC ID: GX9HSGWMAXF1919

16QAM



Date: 19. DEC. 2025 21:11:46

Registration number: W6M22512-24856-C-247

FCC ID: GX9HSGWMAXF1919

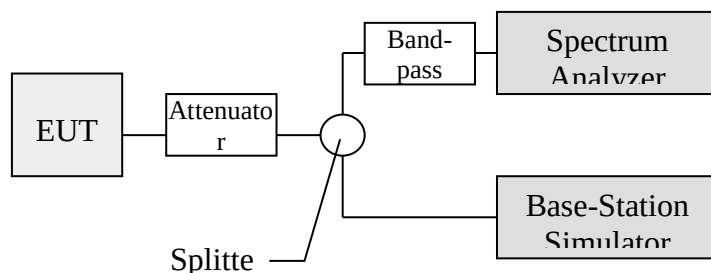
7 Spurious Emissions at Antenna Terminals

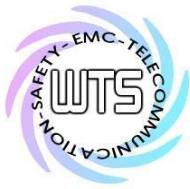
7.1 Test procedure

This transmitter output was connected to a calibrated coaxial attenuator, the other end of which was connected to a spectrum analyzer via a three-port splitter. Please refer to the following figure. Transmitter output was derived with the spectrum analyzer in dBm.

The Spurious Emissions at Antenna Terminals was measured by the spectrum analyzer with a suitable notch filter and/or Band-pass filter.

Tests were performed with an unmodulated carrier at three frequencies (low, middle and high channels) and on all power levels , which can be set-up on the transmitters.





Registration number: W6M22512-24856-C-247

FCC ID: GX9HSGWMAXF1919

7.2 Test Results

Test date: December 21, 2025

Temperature: 22.4 °C

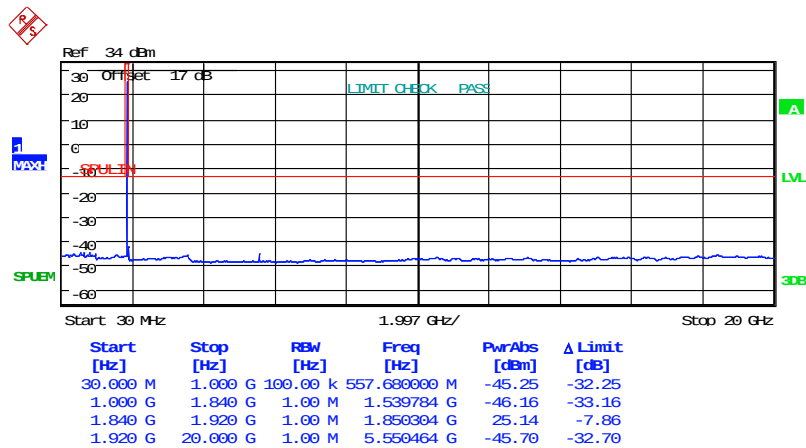
Humidity: 56.8 %

Tester: Rick

Band 2

1.4 MHz

QPSK

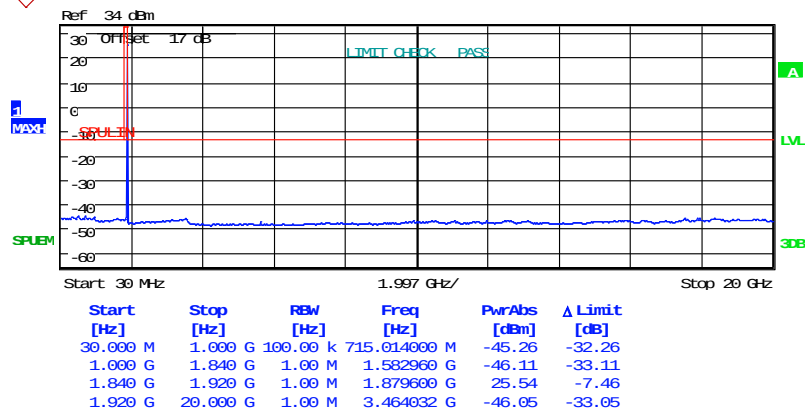


Date: 21.DEC.2025 03:19:16

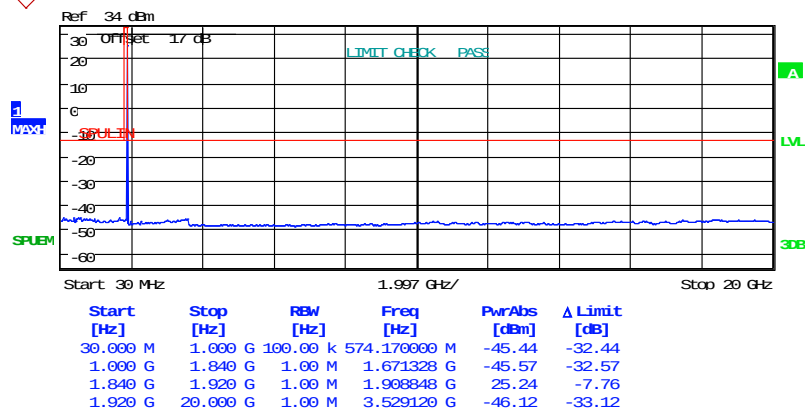


Registration number: W6M22512-24856-C-247

FCC ID: GX9HSGWMAXF1919



Date: 21.DEC.2025 03:18:17



Date: 21.DEC.2025 03:19:56



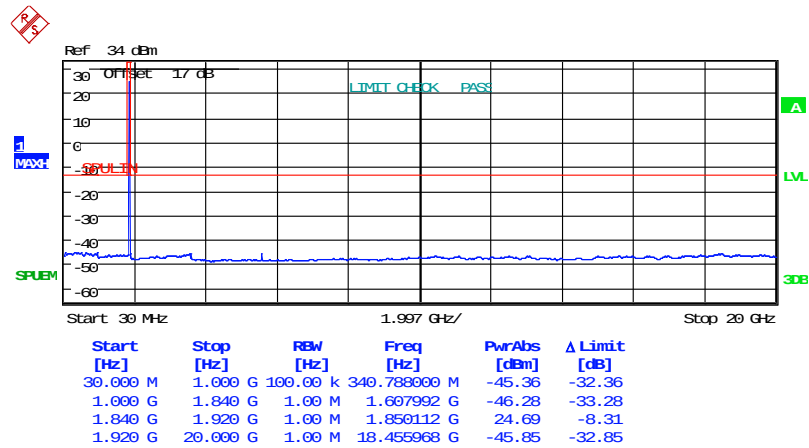
Registration number: W6M22512-24856-C-247

FCC ID: GX9HSGWMAXF1919

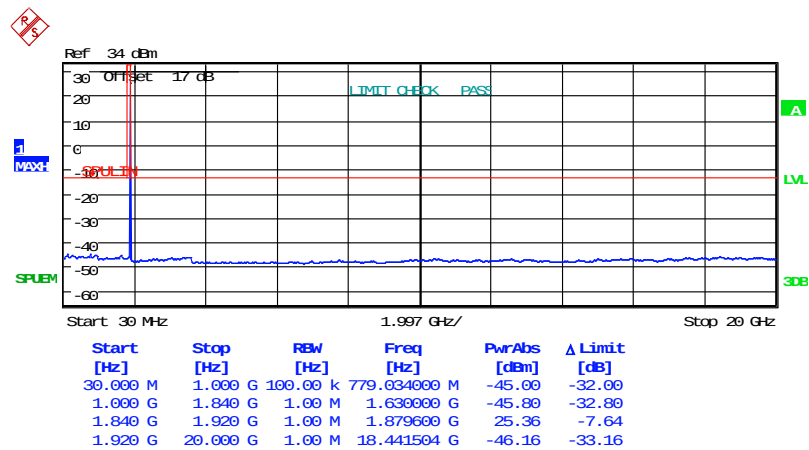
Band 2

1.4 MHz

16QAM



Date: 21.DEC.2025 03:22:07

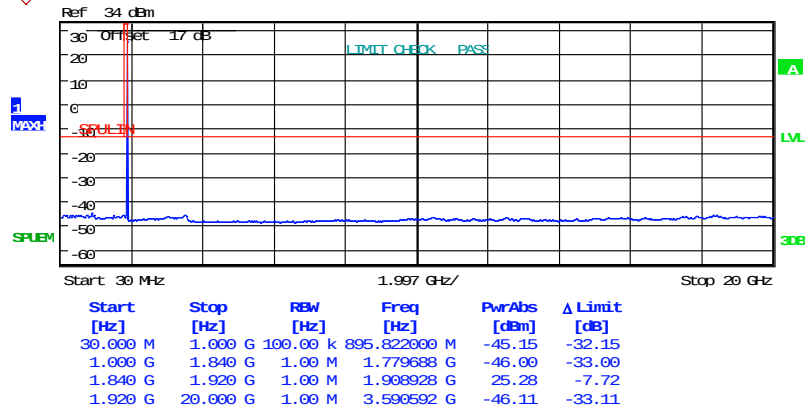


Date: 21.DEC.2025 03:21:14



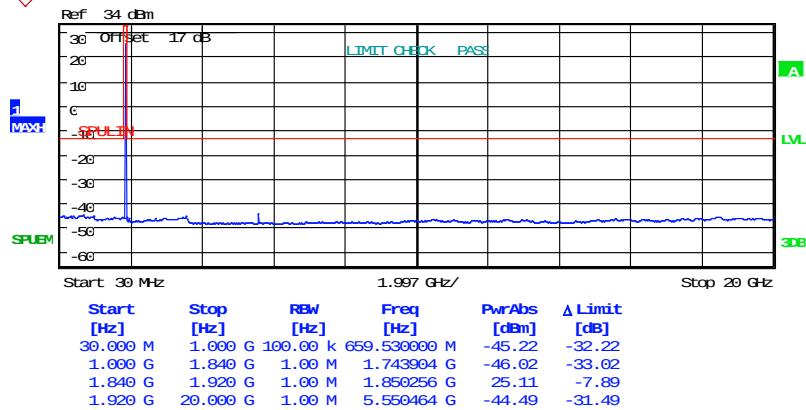
Registration number: W6M22512-24856-C-247

FCC ID: GX9HSGWMAXF1919

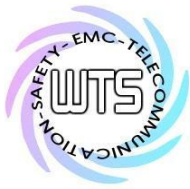


Date: 21.DEC.2025 03:20:29

Band 2
3 MHz
QPSK



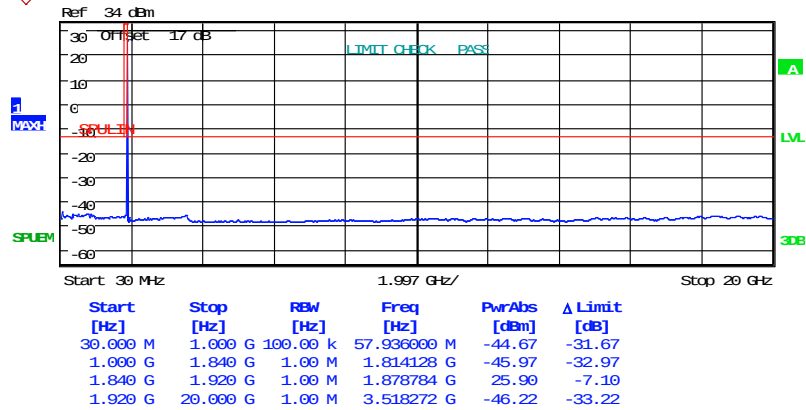
Date: 21.DEC.2025 03:24:30



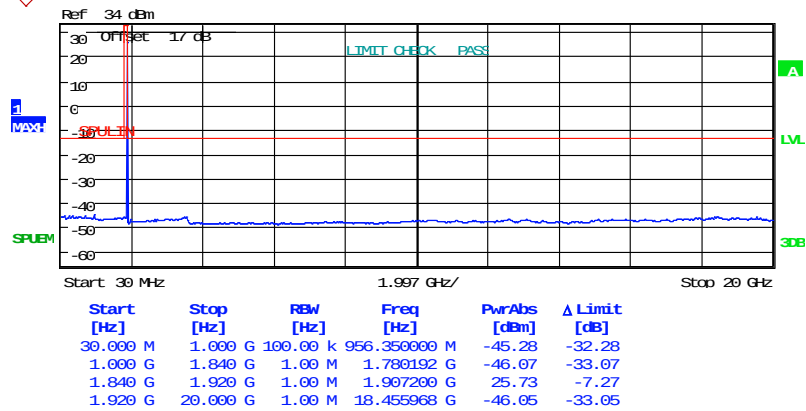
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22512-24856-C-247

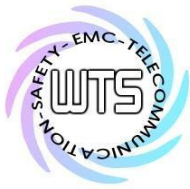
FCC ID: GX9HSGWMAXF1919



Date: 21.DEC.2025 03:25:30



Date: 21.DEC.2025 03:26:22



Worldwide Testing Services(Taiwan) Co., Ltd.

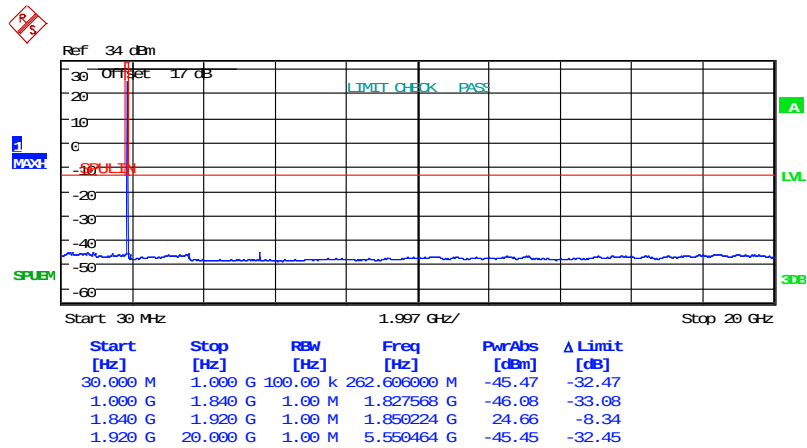
Registration number: W6M22512-24856-C-247

FCC ID: GX9HSGWMAXF1919

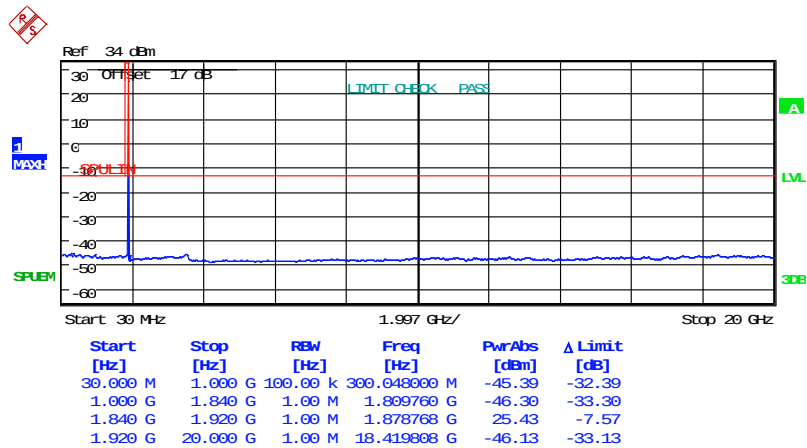
Band 2

3 MHz

16QAM



Date: 21.DEC.2025 03:28:25

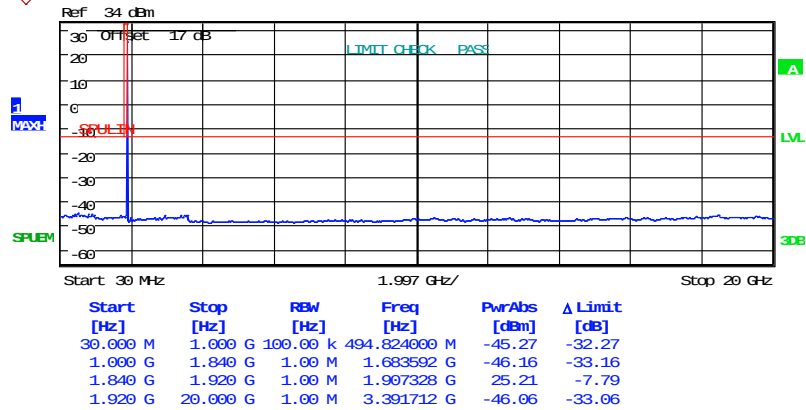


Date: 21.DEC.2025 03:27:33



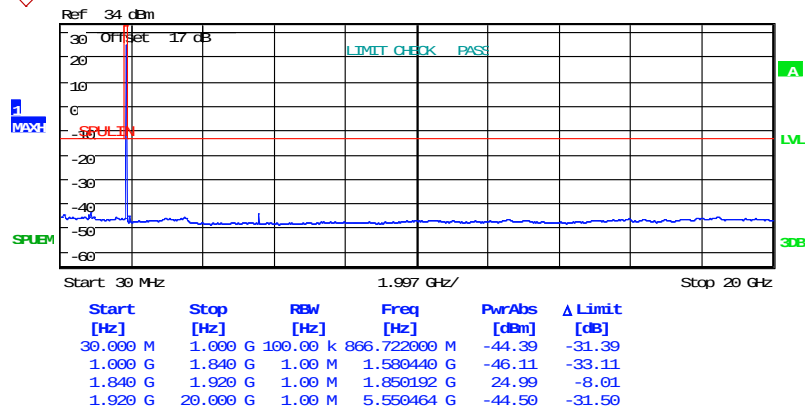
Registration number: W6M22512-24856-C-247

FCC ID: GX9HSGWMAXF1919



Date: 21.DEC.2025 03:26:53

Band 2
5 MHz
QPSK

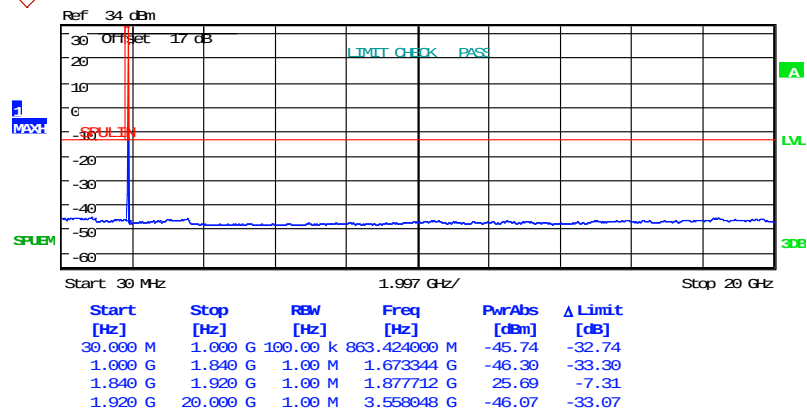


Date: 21.DEC.2025 03:30:41

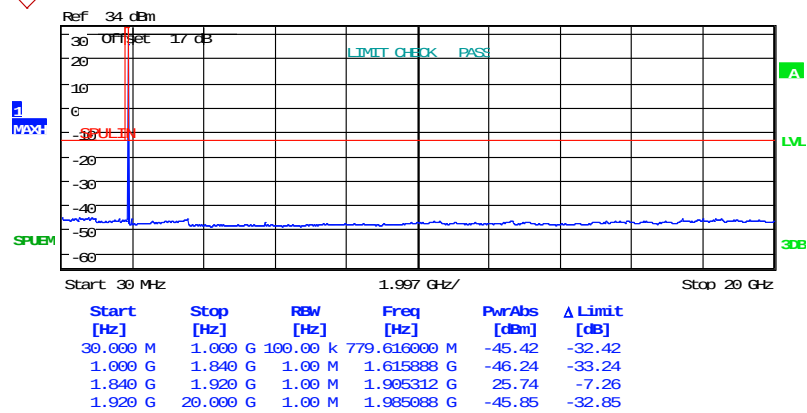


Registration number: W6M22512-24856-C-247

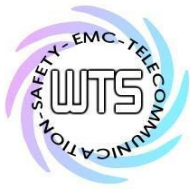
FCC ID: GX9HSGWMAXF1919



Date: 21.DEC.2025 03:31:37



Date: 21.DEC.2025 03:32:28



Worldwide Testing Services(Taiwan) Co., Ltd.

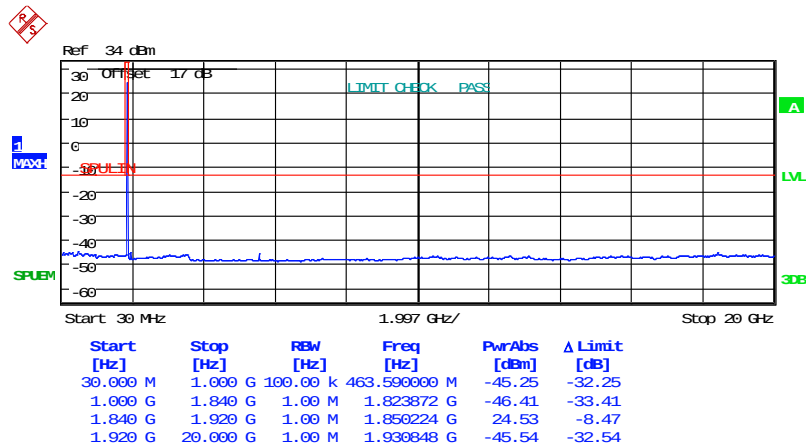
Registration number: W6M22512-24856-C-247

FCC ID: GX9HSGWMAXF1919

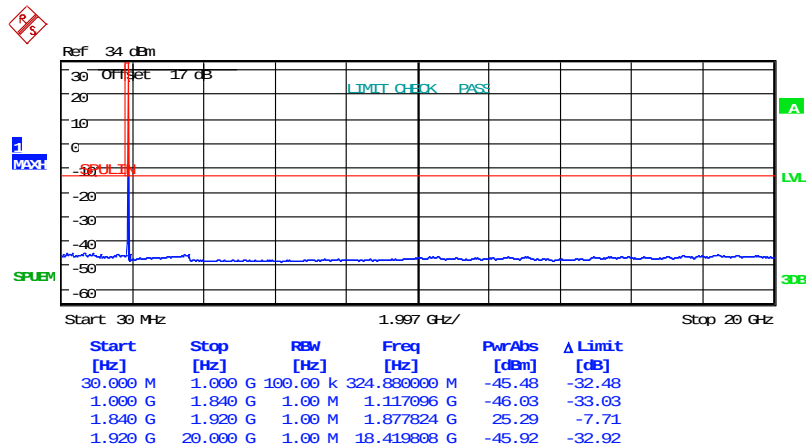
Band 2

5 MHz

16QAM



Date: 21.DEC.2025 03:34:48

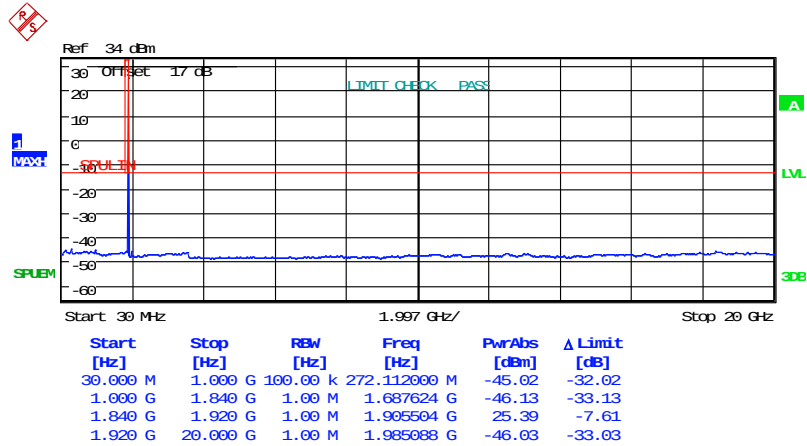


Date: 21.DEC.2025 03:33:42



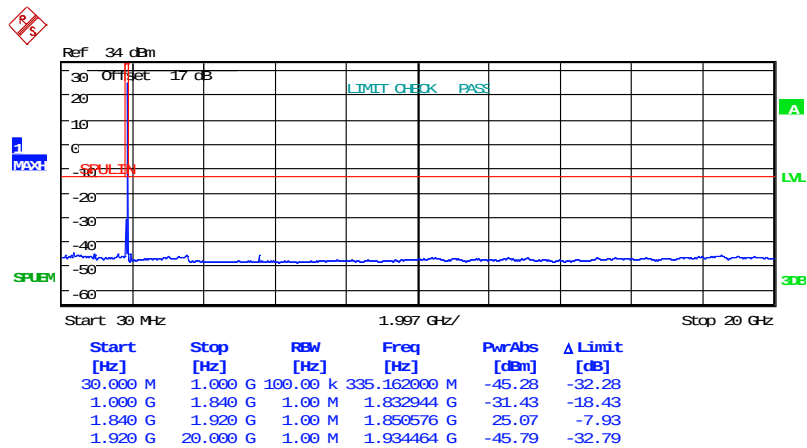
Registration number: W6M22512-24856-C-247

FCC ID: GX9HSGWMAXF1919



Date: 21.DEC.2025 03:32:58

Band 2
10 MHz
QPSK



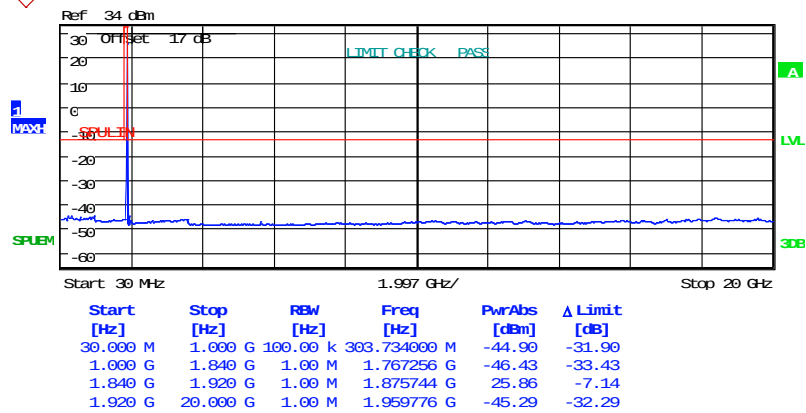
Date: 21.DEC.2025 03:37:21



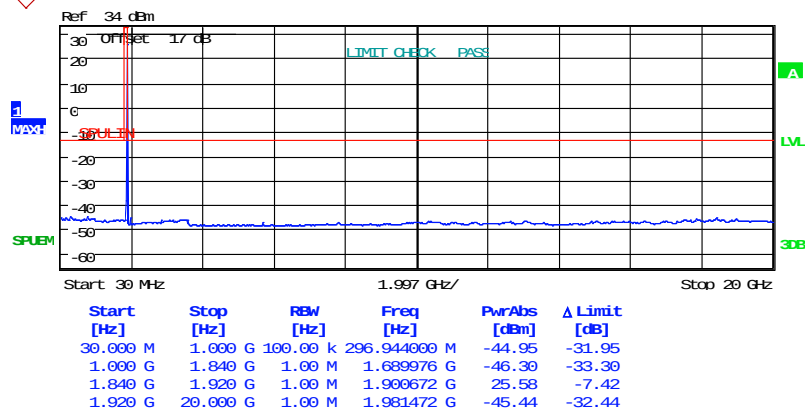
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22512-24856-C-247

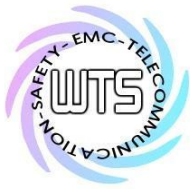
FCC ID: GX9HSGWMAXF1919



Date: 21.DEC.2025 03:38:01



Date: 21.DEC.2025 03:39:12



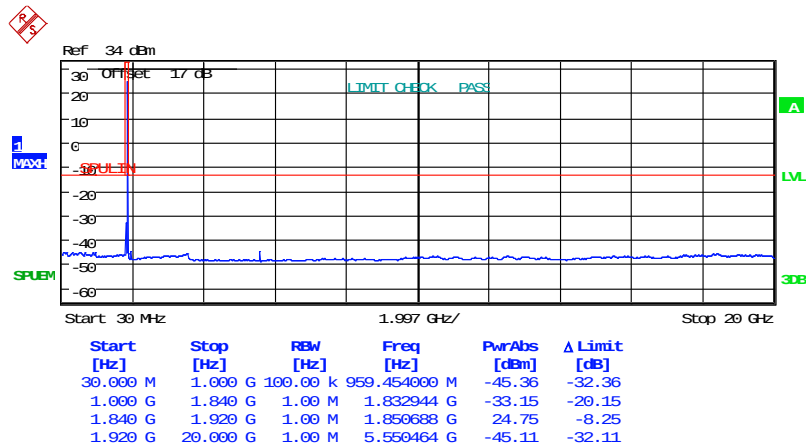
Registration number: W6M22512-24856-C-247

FCC ID: GX9HSGWMAXF1919

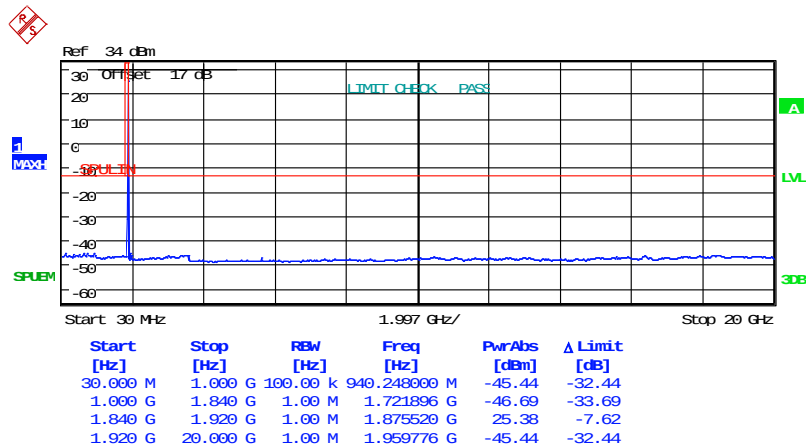
Band 2

10 MHz

16QAM



Date: 21.DEC.2025 03:40:56

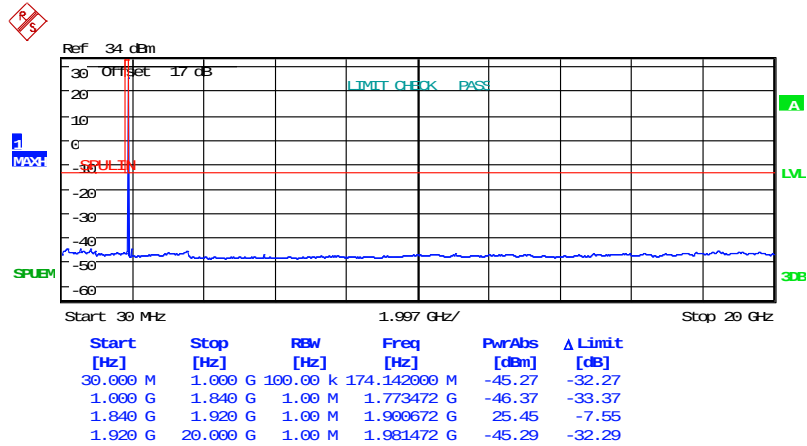


Date: 21.DEC.2025 03:40:06



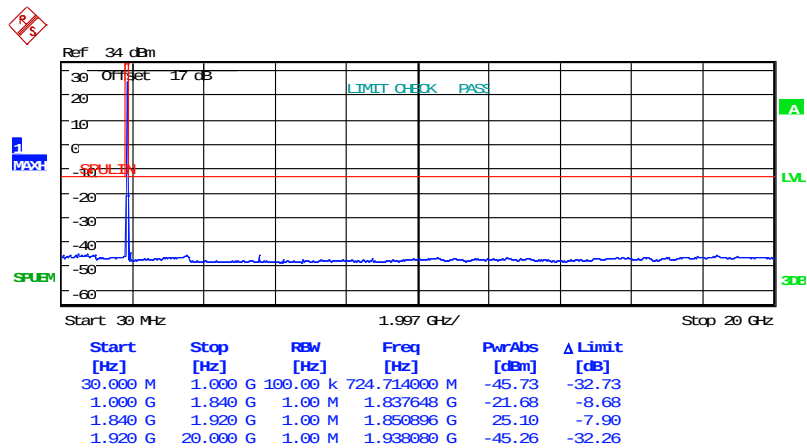
Registration number: W6M22512-24856-C-247

FCC ID: GX9HSGWMAXF1919



Date: 21.DEC.2025 03:39:41

Band 2
15 MHz
QPSK



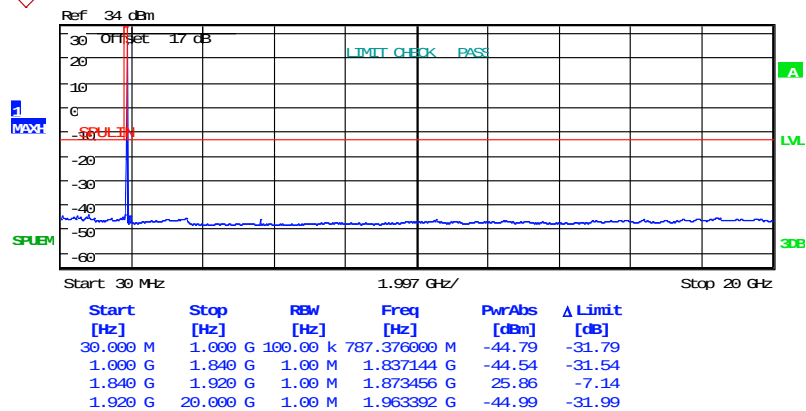
Date: 21.DEC.2025 03:44:55



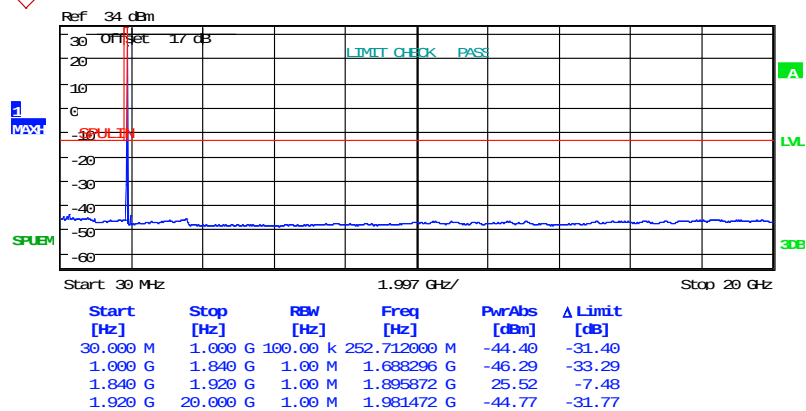
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22512-24856-C-247

FCC ID: GX9HSGWMAXF1919



Date: 21.DEC.2025 03:45:57



Date: 21.DEC.2025 03:46:57



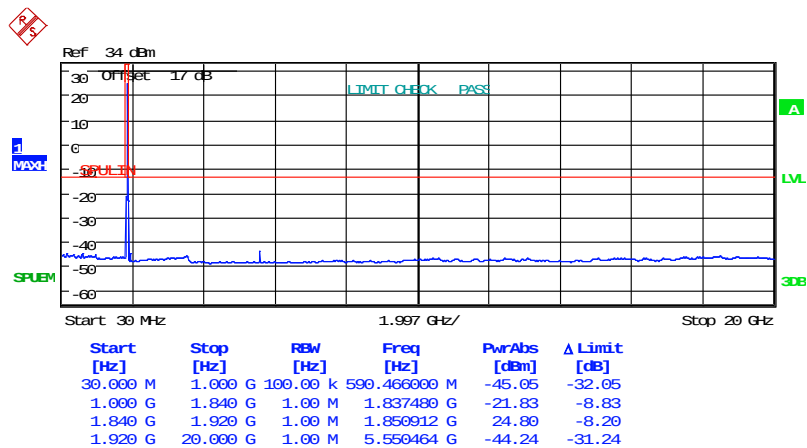
Registration number: W6M22512-24856-C-247

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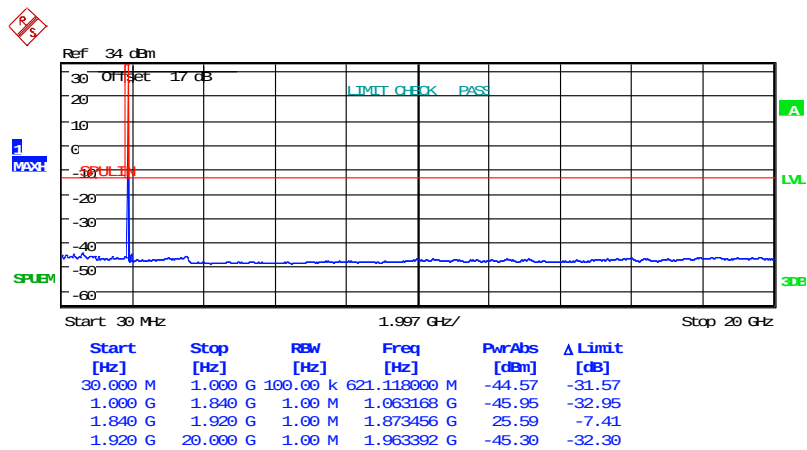
Band 2

15 MHz

16QAM



Date: 21.DEC.2025 03:49:03

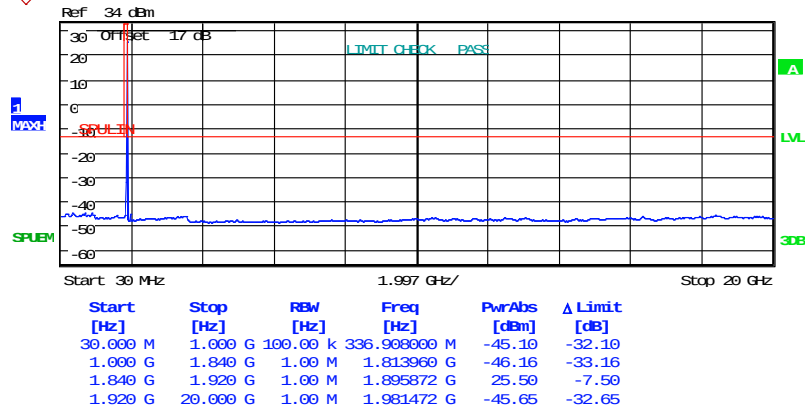


Date: 21.DEC.2025 03:48:23



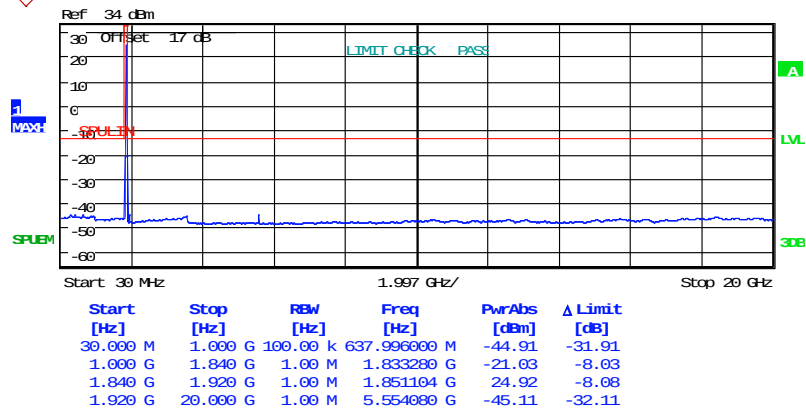
Registration number: W6M22512-24856-C-247

FCC ID: GX9HSGWMAXF1919



Date: 21.DEC.2025 03:47:35

Band 2
20 MHz
QPSK



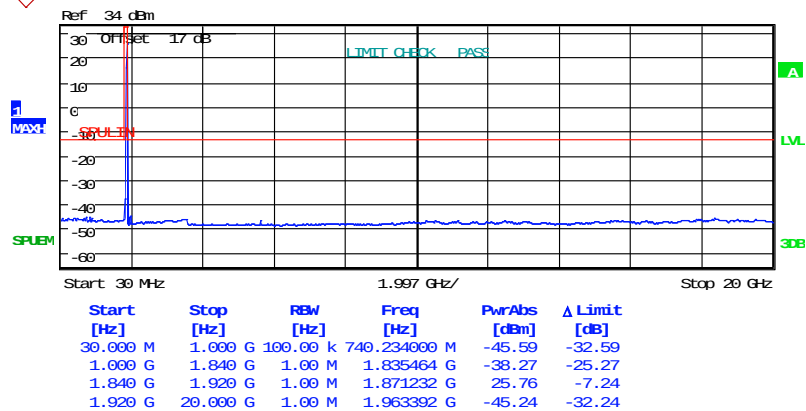
Date: 21.DEC.2025 03:50:58



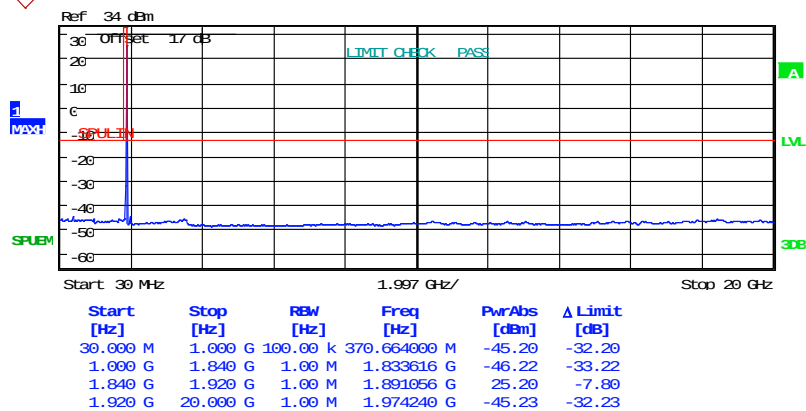
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22512-24856-C-247

FCC ID: GX9HSGWMAXF1919



Date: 21.DEC.2025 03:51:30



Date: 21.DEC.2025 03:52:11



Worldwide Testing Services(Taiwan) Co., Ltd.

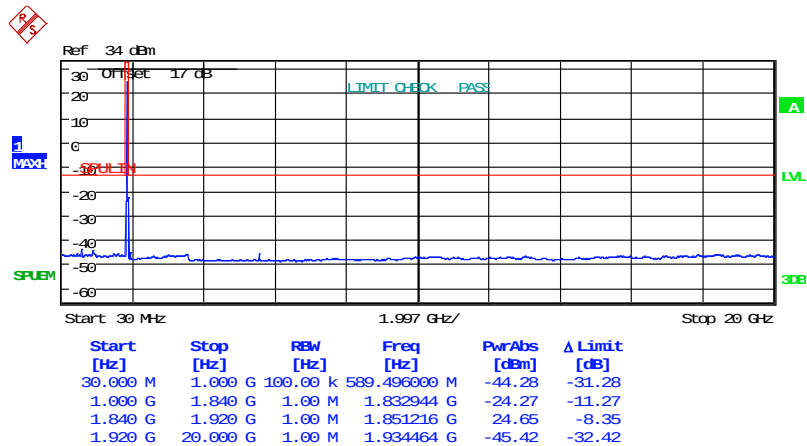
Registration number: W6M22512-24856-C-247

FCC ID: GX9HSGWMAXF1919

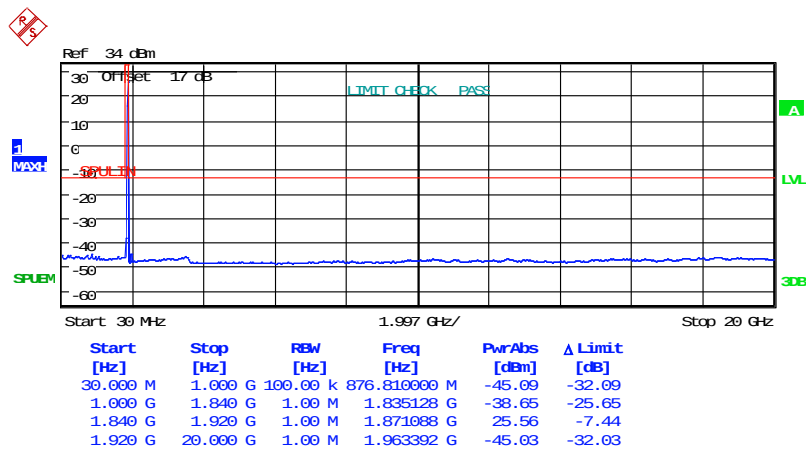
Band 2

20 MHz

16QAM



Date: 21.DEC.2025 03:53:45

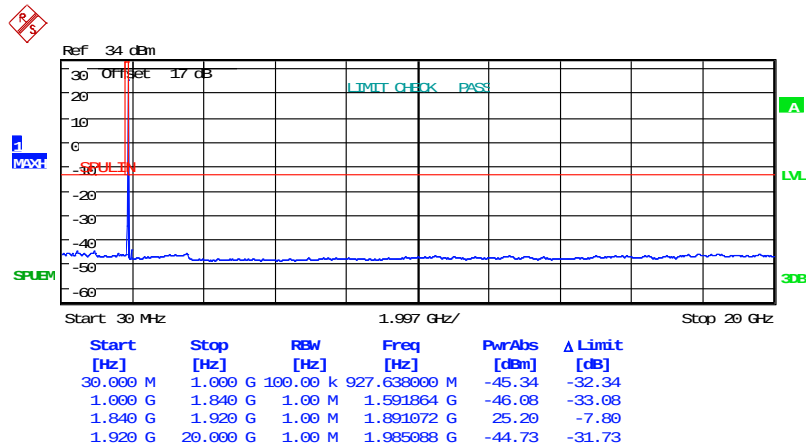


Date: 21.DEC.2025 03:53:09



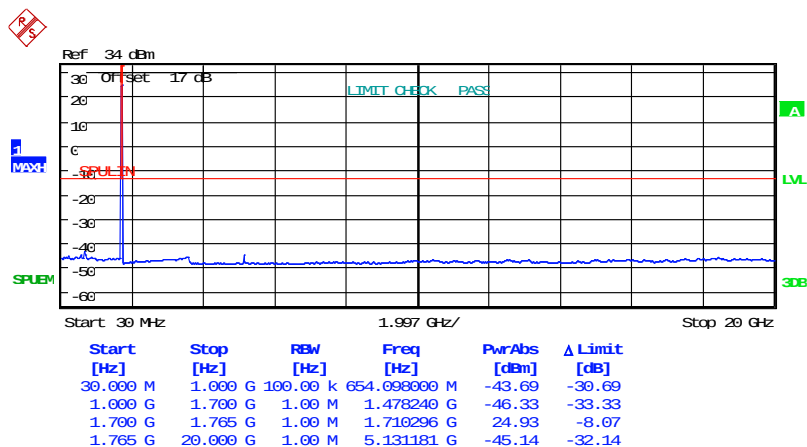
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FCC ID: GX9HSGWMAXF1919



Date: 21.DEC.2025 03:52:40

Band 4
1.4 MHz
QPSK



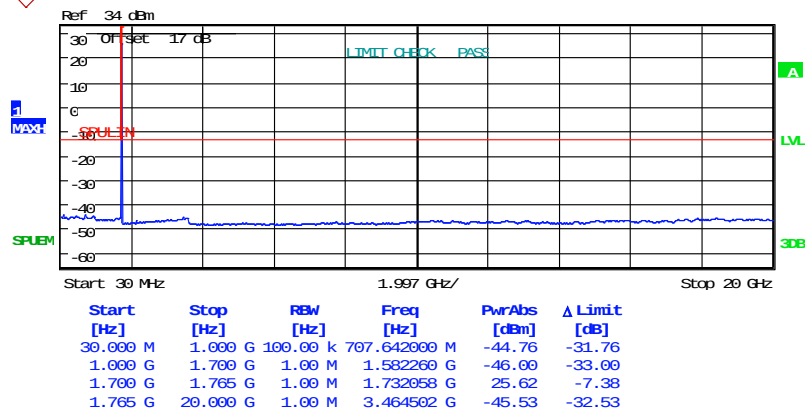
Date: 21.DEC.2025 04:11:58



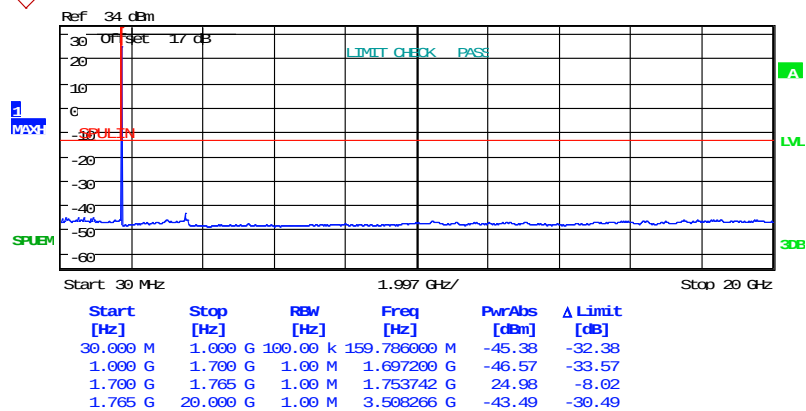
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22512-24856-C-247

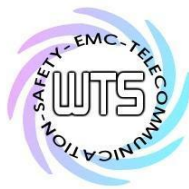
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Date: 21.DEC.2025 04:10:43



Date: 21.DEC.2025 04:13:57



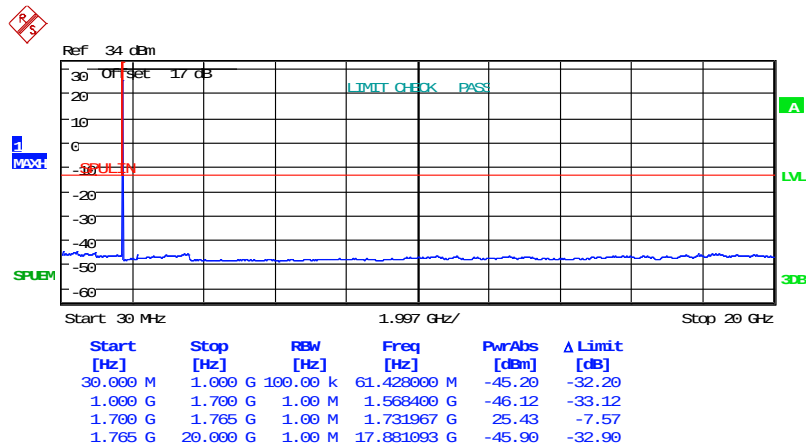
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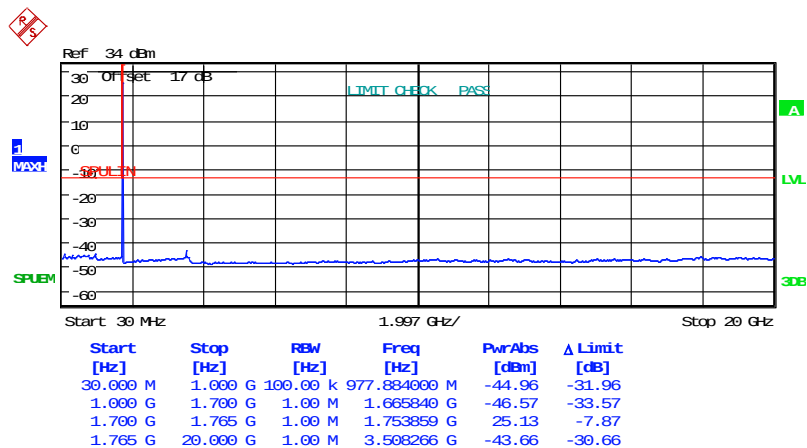
Band 4

1.4 MHz

16QAM



Date: 21.DEC.2025 04:15:21

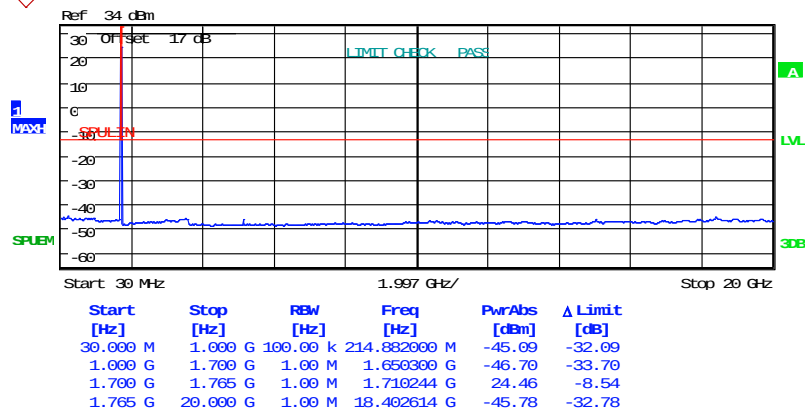


Date: 21.DEC.2025 04:14:32



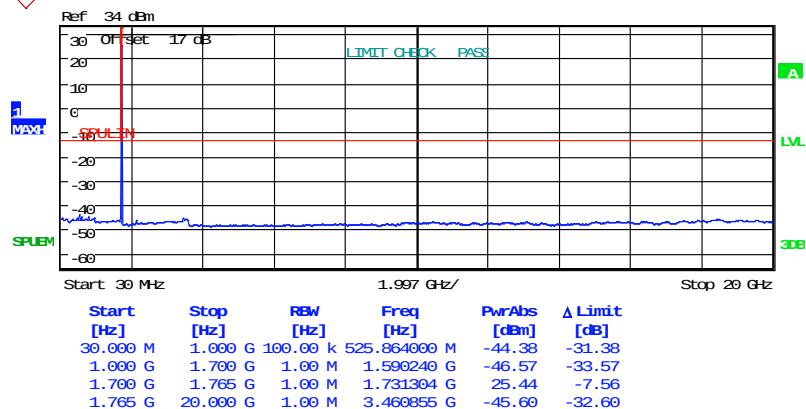
Registration number: W6M22512-24856-C-247

FCC ID: GX9HSGWMAXF1919



Date: 21.DEC.2025 04:16:01

Band 4
3 MHz
QPSK



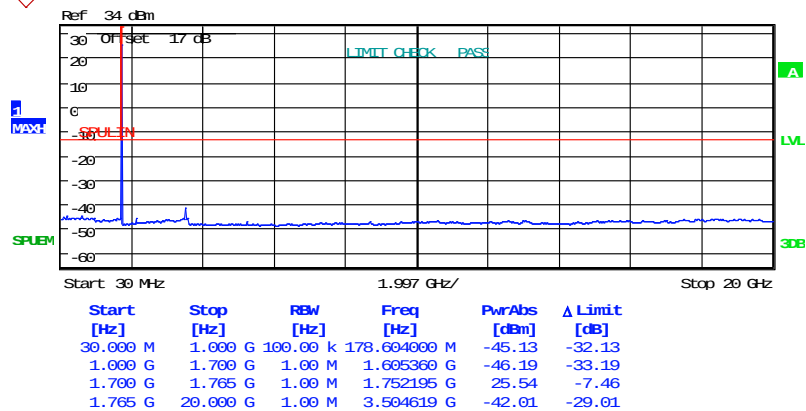
Date: 21.DEC.2025 04:19:24



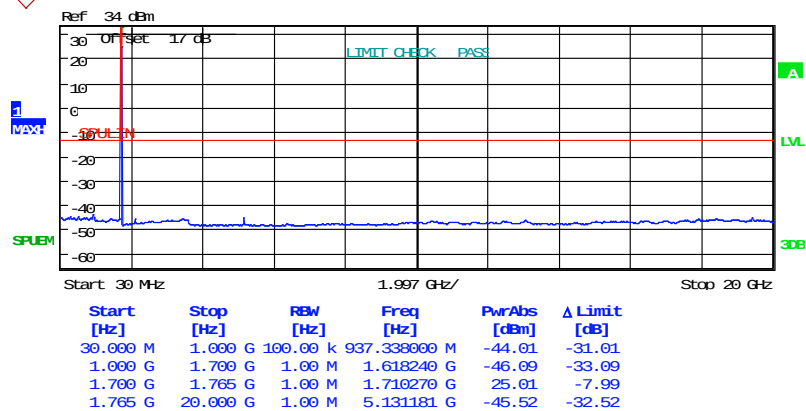
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22512-24856-C-247

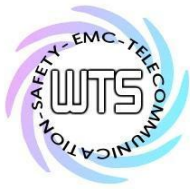
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Date: 21.DEC.2025 04:20:16



Date: 21.DEC.2025 04:18:24



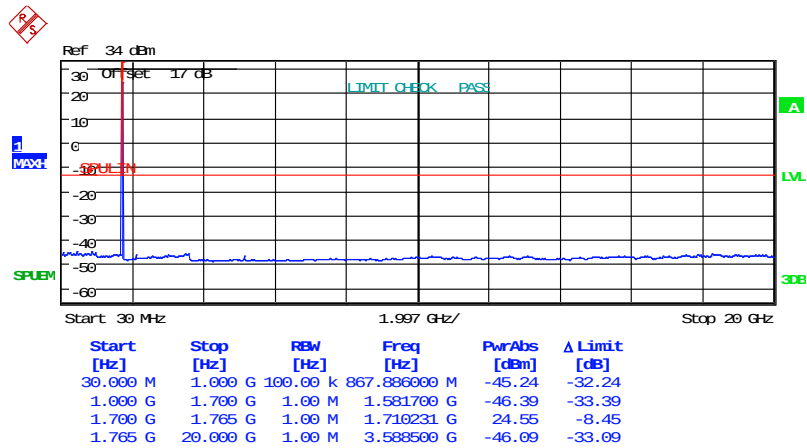
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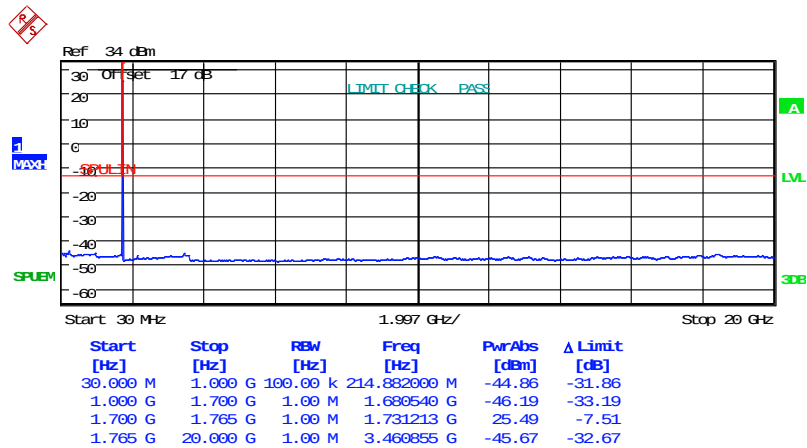
Band 4

3 MHz

16QAM



Date: 21.DEC.2025 04:22:36

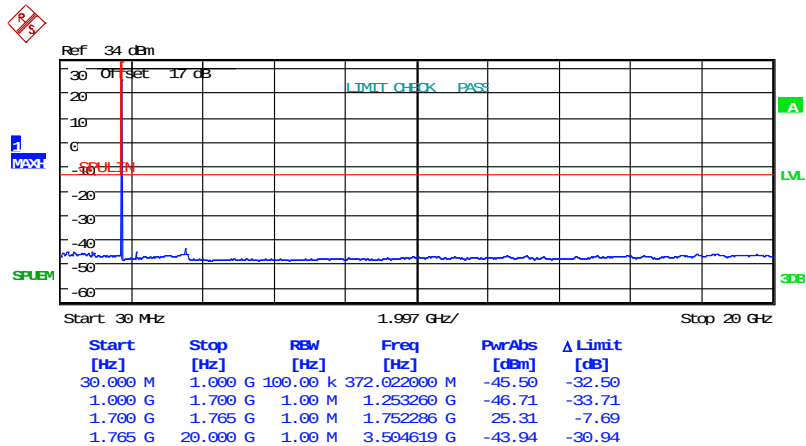


Date: 21.DEC.2025 04:21:38



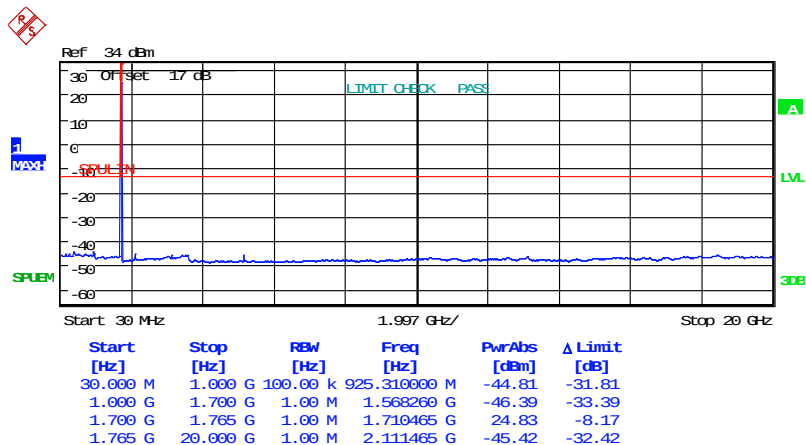
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FCC ID: GX9HSGWMAXF1919



Date: 21.DEC.2025 04:20:44

Band 4
5 MHz
QPSK

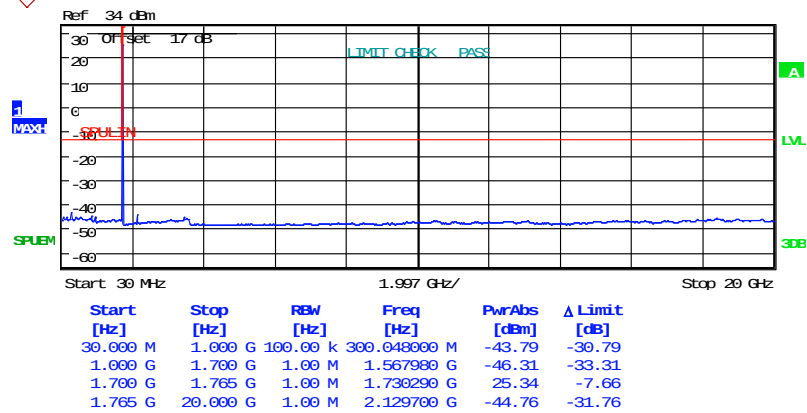


Date: 21.DEC.2025 04:24:05

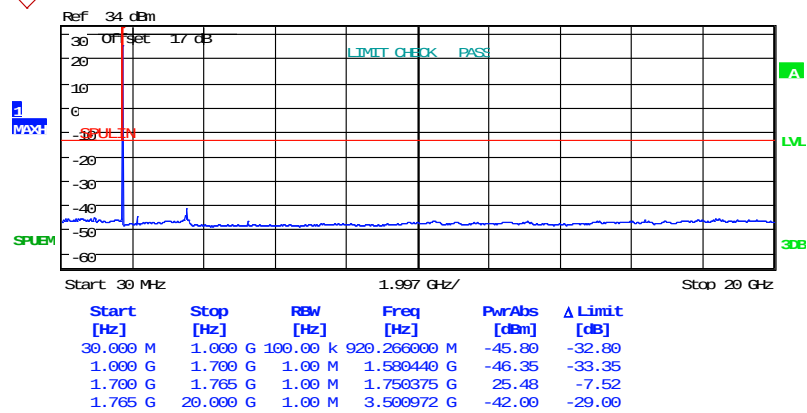


Registration number: W6M22512-24856-C-247

FCC ID: GX9HSGWMAXF1919



Date: 21.DEC.2025 04:24:42



Date: 21.DEC.2025 04:25:30



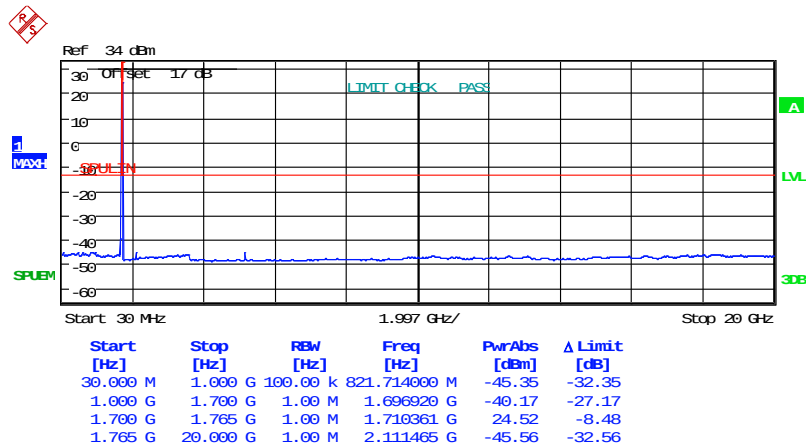
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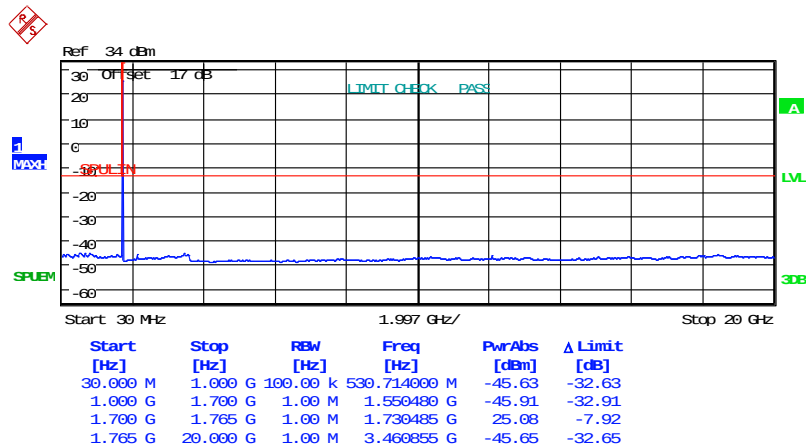
Band 4

5 MHz

16QAM



Date: 21.DEC.2025 04:27:33



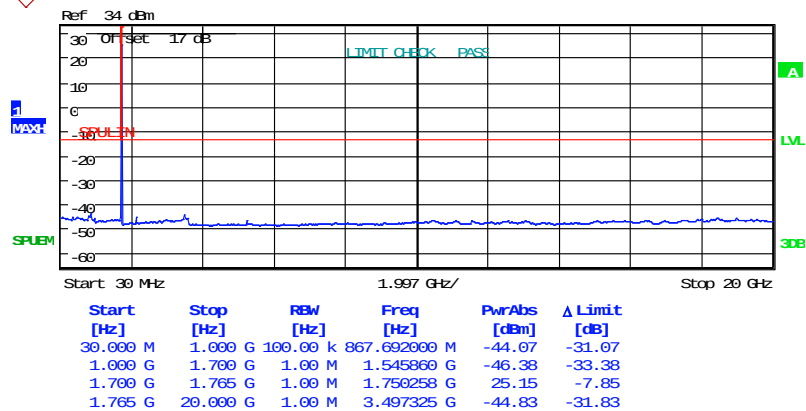
Date: 21.DEC.2025 04:26:41



Worldwide Testing Services(Taiwan) Co., Ltd.

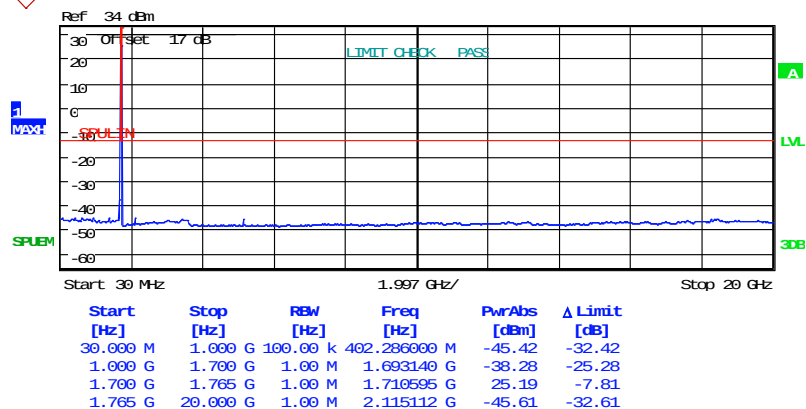
Registration number: W6M22512-24856-C-247

FCC ID: GX9HSGWMAXF1919



Date: 21.DEC.2025 04:26:05

Band 4
10 MHz
QPSK



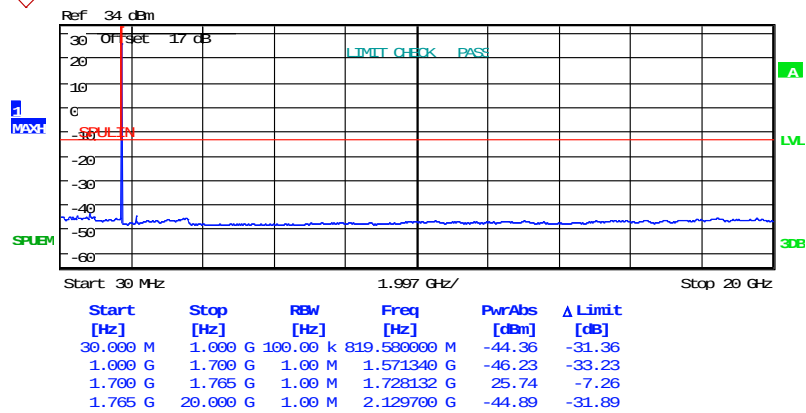
Date: 21.DEC.2025 04:28:47



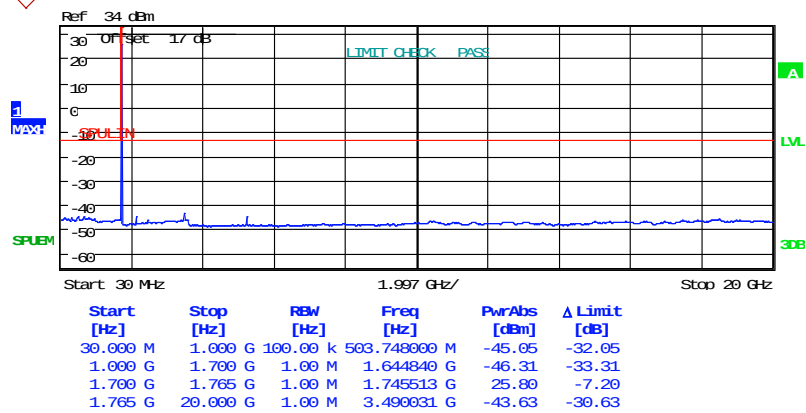
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22512-24856-C-247

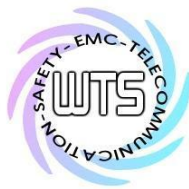
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Date: 21.DEC.2025 04:29:57



Date: 21.DEC.2025 04:30:40



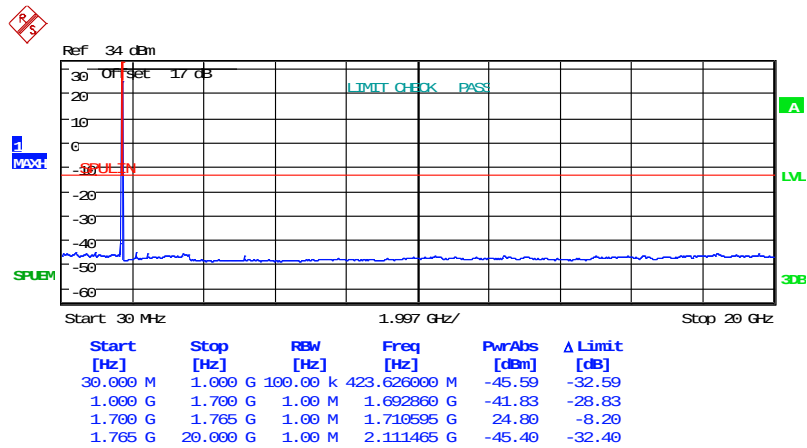
Registration number: W6M22512-24856-C-247

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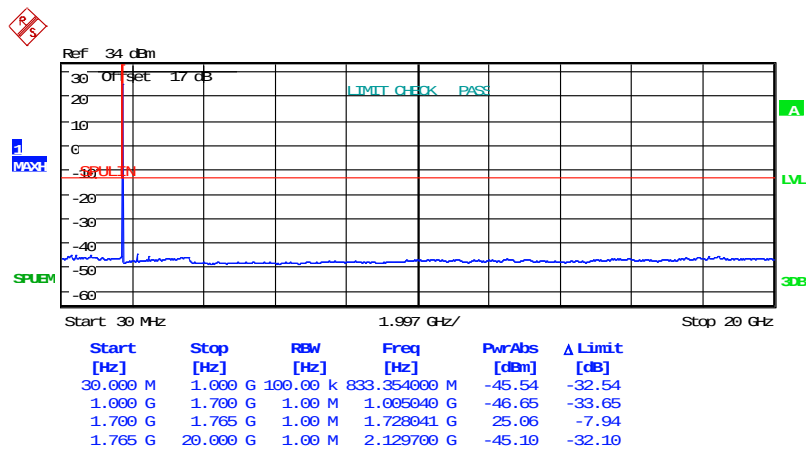
Band 4

10 MHz

16QAM



Date: 21.DEC.2025 04:32:07

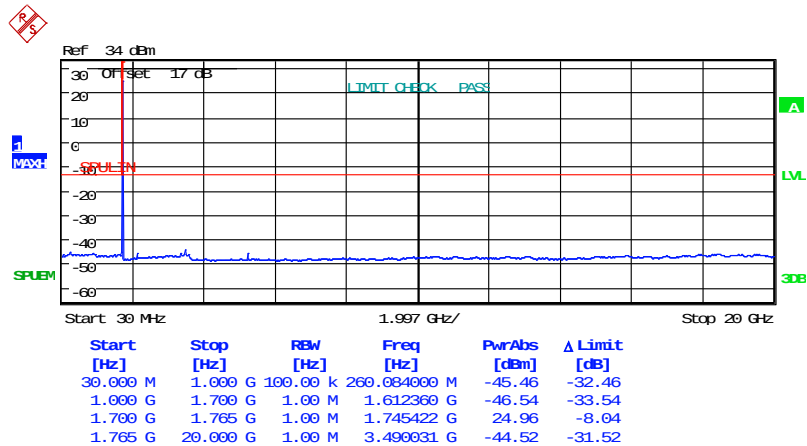


Date: 21.DEC.2025 04:31:34



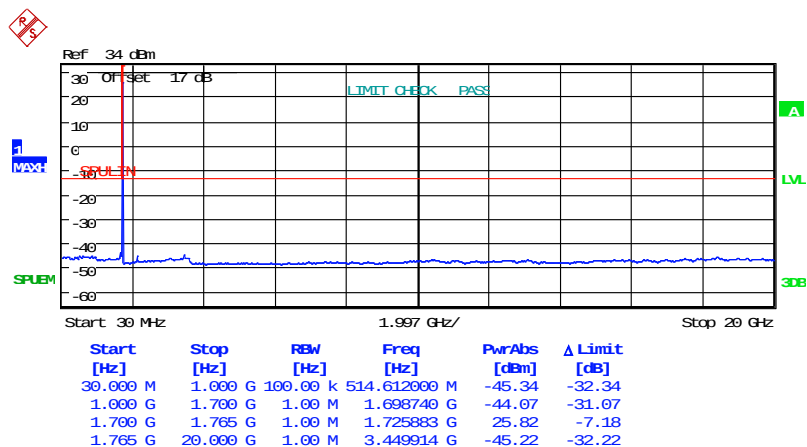
Registration number: W6M22512-24856-C-247

FCC ID: GX9HSGWMAXF1919



Date: 21.DEC.2025 04:31:04

Band 4
15 MHz
QPSK

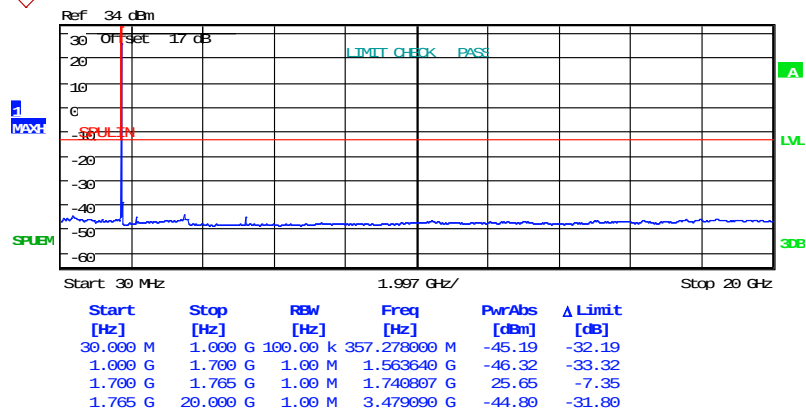


Date: 21.DEC.2025 04:34:05

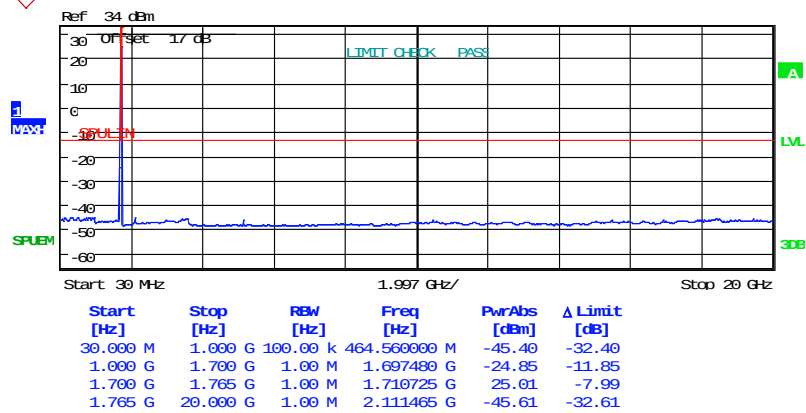


Registration number: W6M22512-24856-C-247

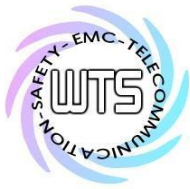
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Date: 21.DEC.2025 04:34:51



Date: 21.DEC.2025 04:33:22



Worldwide Testing Services(Taiwan) Co., Ltd.

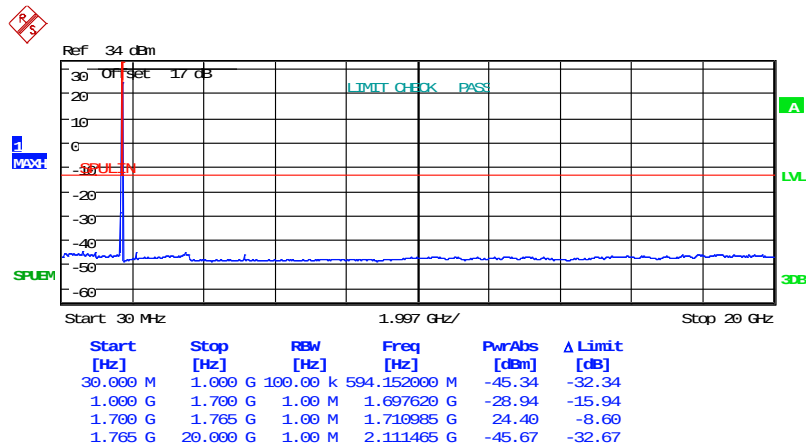
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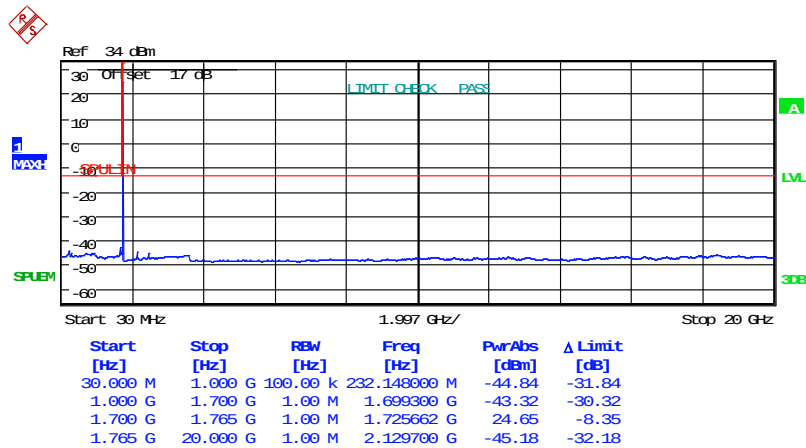
Band 4

15 MHz

16QAM



Date: 21.DEC.2025 04:36:53

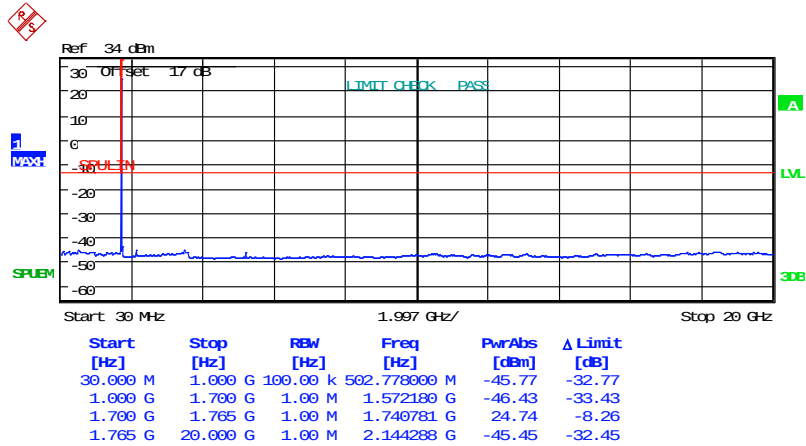


Date: 21.DEC.2025 04:35:56



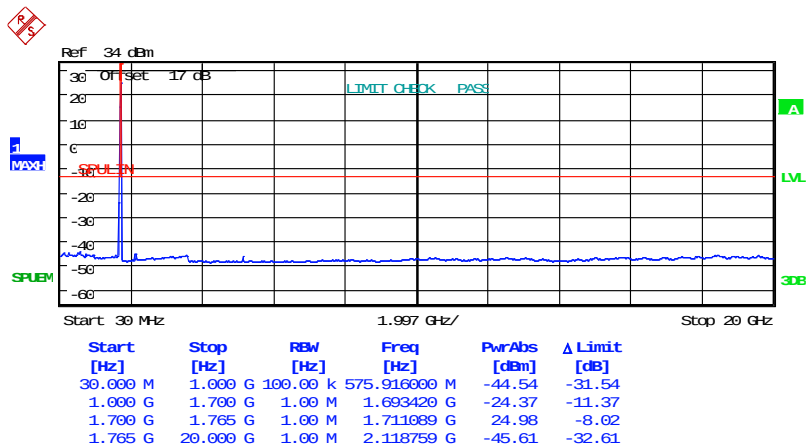
Registration number: W6M22512-24856-C-247

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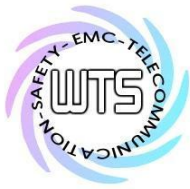


Date: 21.DEC.2025 04:35:17

Band 4
20 MHz
QPSK



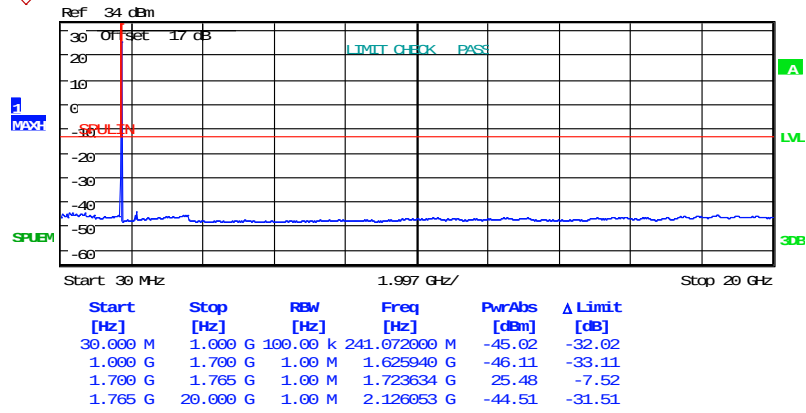
Date: 21.DEC.2025 04:38:11



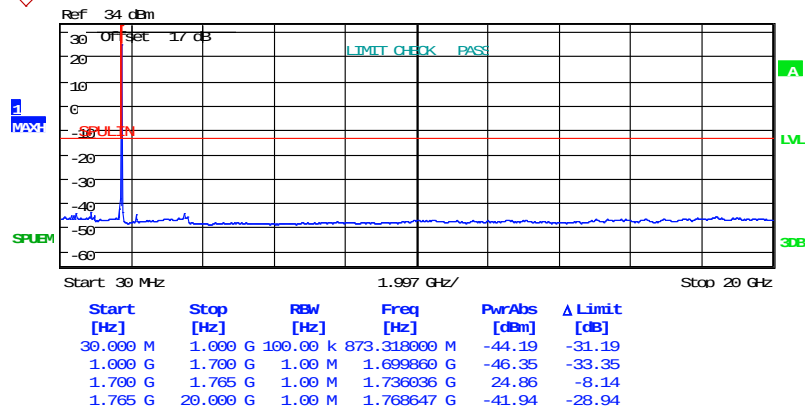
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22512-24856-C-247

FCC ID: GX9HSGWMAXF1919



Date: 21.DEC.2025 04:39:09



Date: 21.DEC.2025 04:39:50



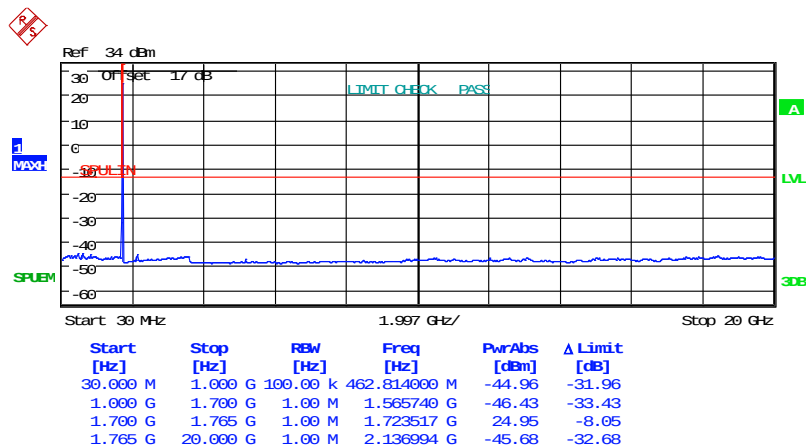
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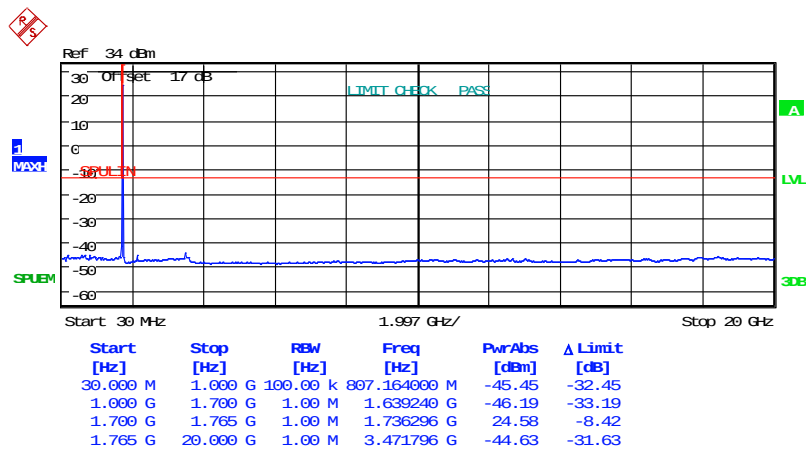
Band 4

20 MHz

16QAM



Date: 21.DEC.2025 04:40:50

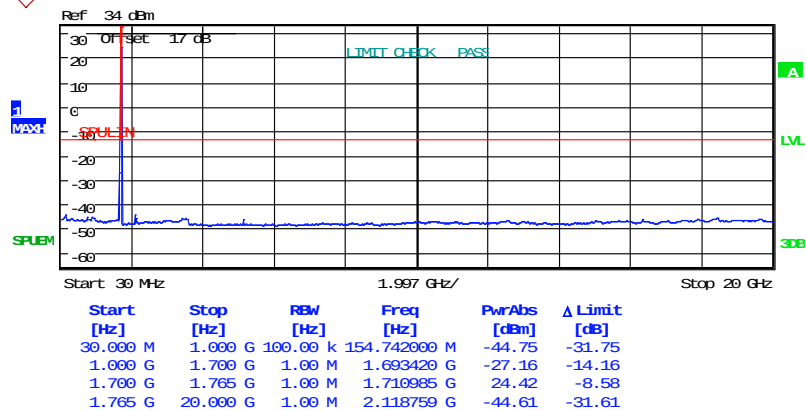


Date: 21.DEC.2025 04:40:19



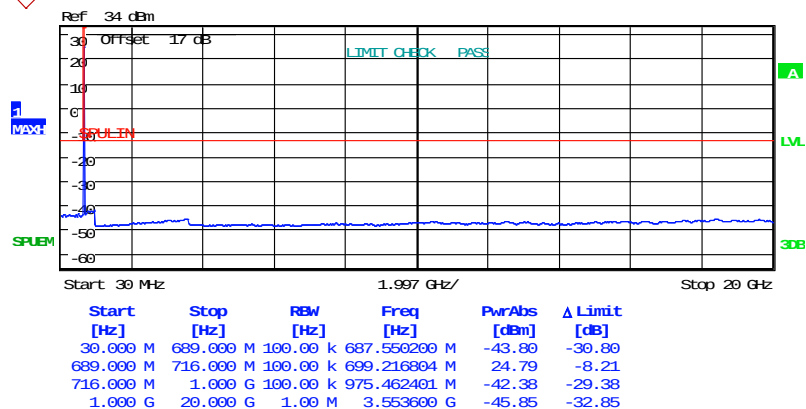
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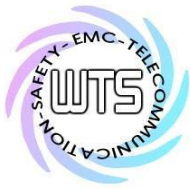


Date: 21.DEC.2025 04:41:19

Band 12
1.4 MHz
QPSK



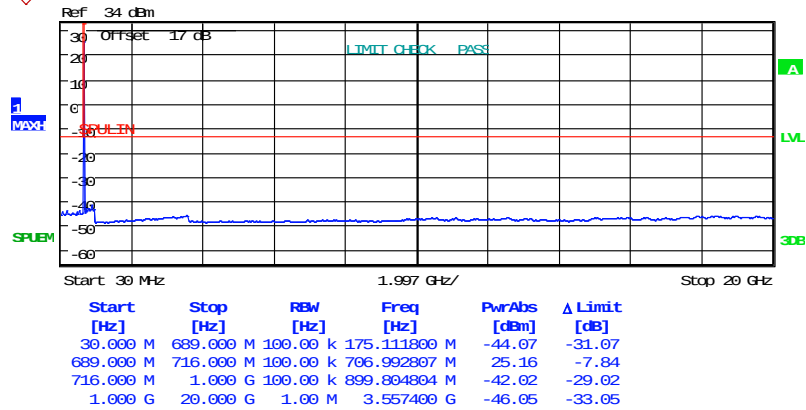
Date: 21.DEC.2025 02:42:51



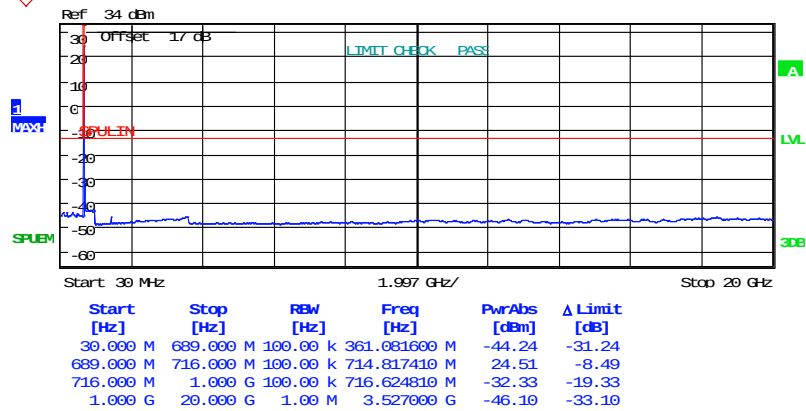
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22512-24856-C-247

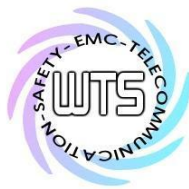
FCC ID: GX9HSGWMAXF1919



Date: 21.DEC.2025 02:44:34



Date: 21.DEC.2025 02:45:20



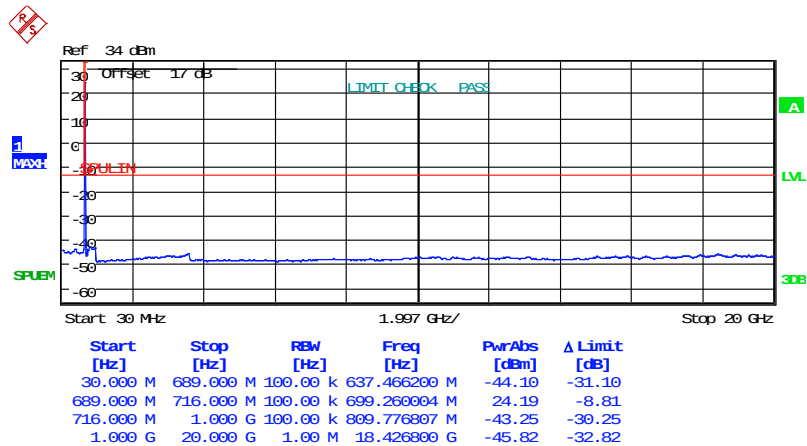
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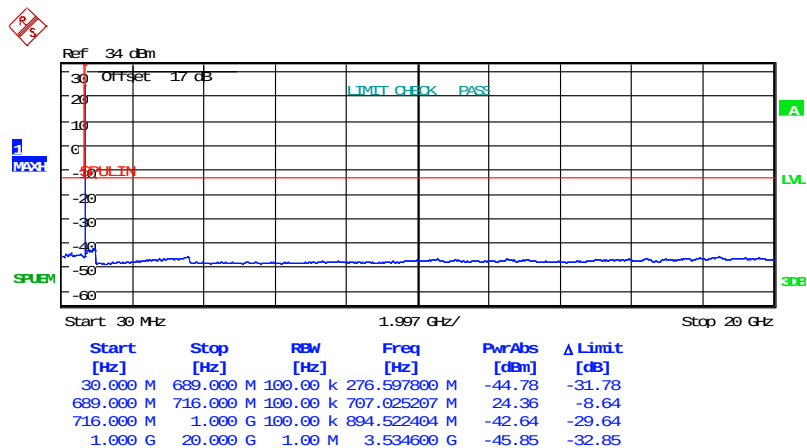
Band 12

1.4 MHz

16QAM



Date: 21.DEC.2025 02:47:06



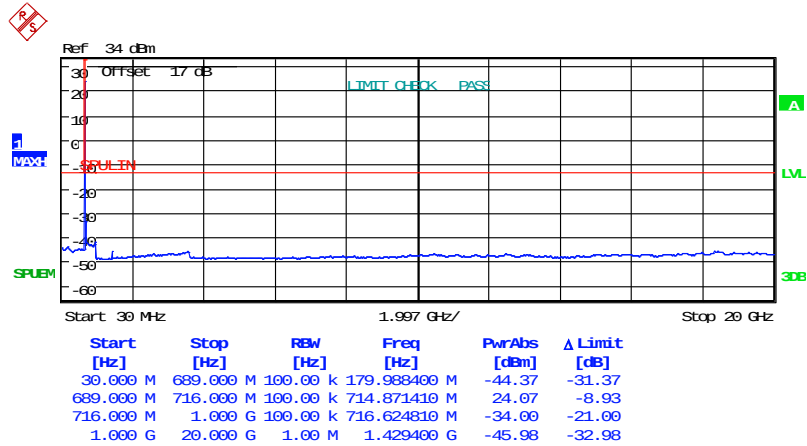
Date: 21.DEC.2025 02:46:27



Worldwide Testing Services(Taiwan) Co., Ltd.

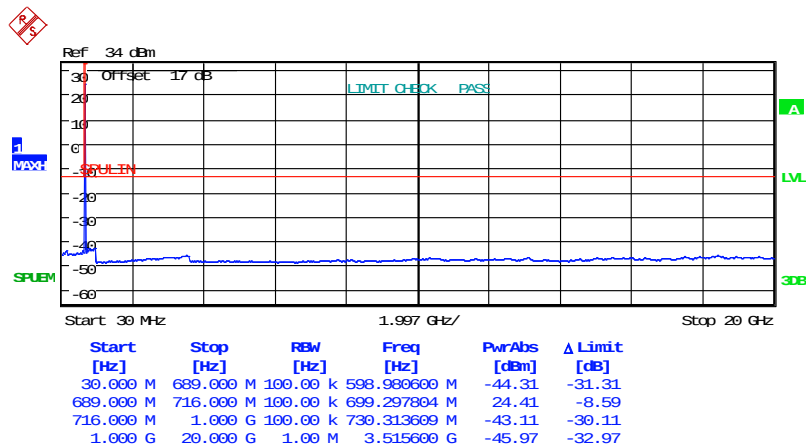
Registration number: W6M22512-24856-C-247

FCC ID: GX9HSGWMAXF1919



Date: 21.DEC.2025 02:45:52

Band 12
3 MHz
QPSK



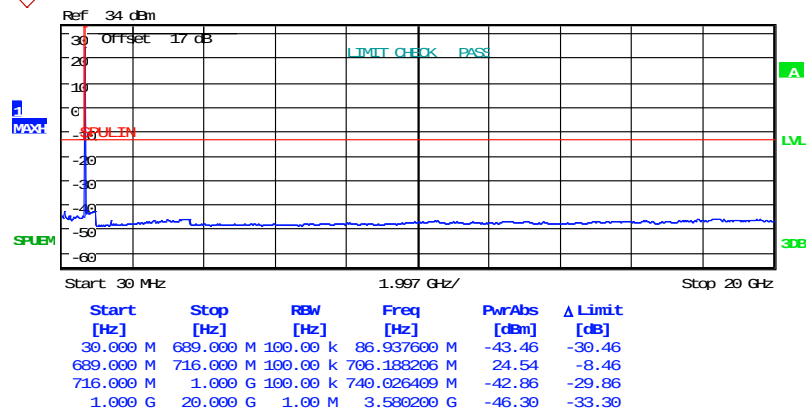
Date: 21.DEC.2025 03:03:45



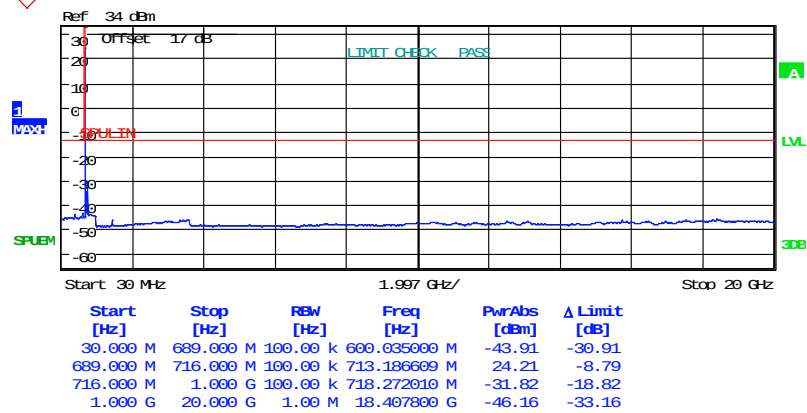
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22512-24856-C-247

FCC ID: GX9HSGWMAXF1919



Date: 21.DEC.2025 03:03:00



Date: 21.DEC.2025 03:02:26



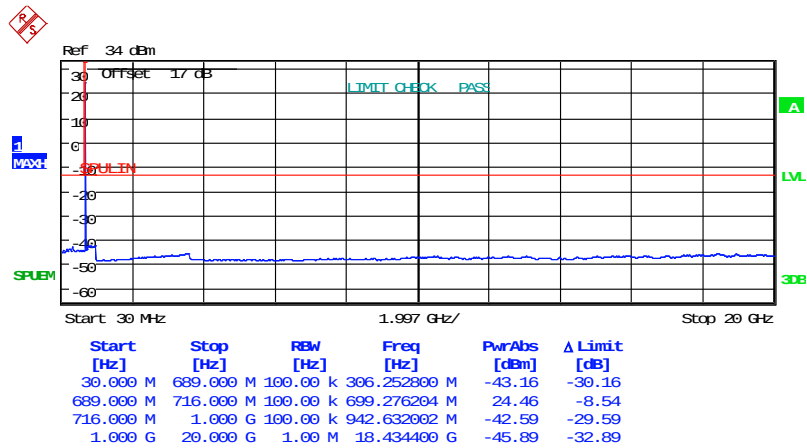
Registration number: W6M22512-24856-C-247

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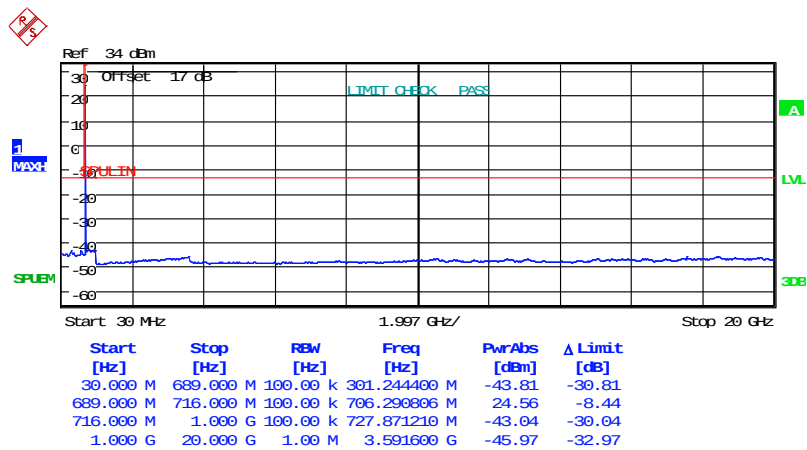
Band 12

3 MHz

16QAM



Date: 21.DEC.2025 02:59:59



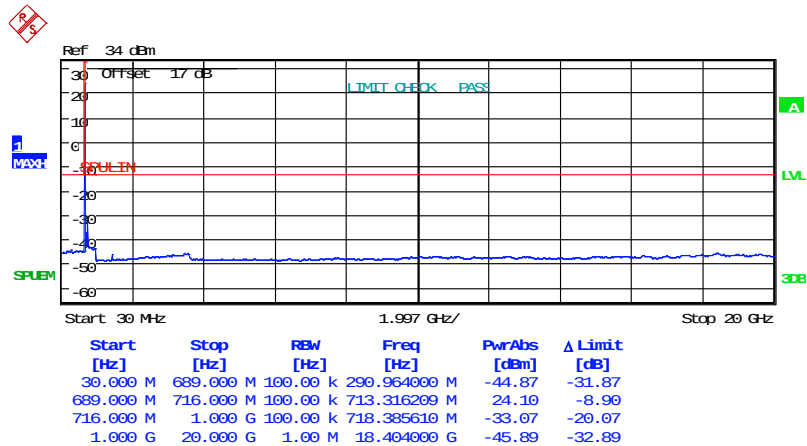
Date: 21.DEC.2025 03:01:11



Worldwide Testing Services(Taiwan) Co., Ltd.

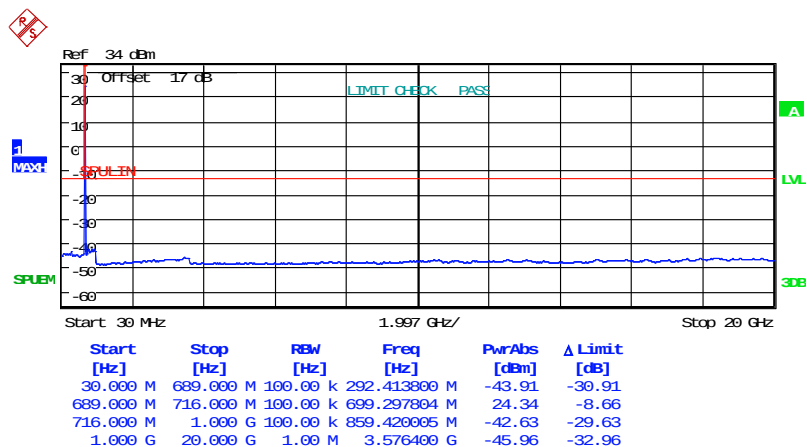
Registration number: W6M22512-24856-C-247

FCC ID: GX9HSGWMAXF1919



Date: 21.DEC.2025 03:01:53

Band 12
5 MHz
QPSK



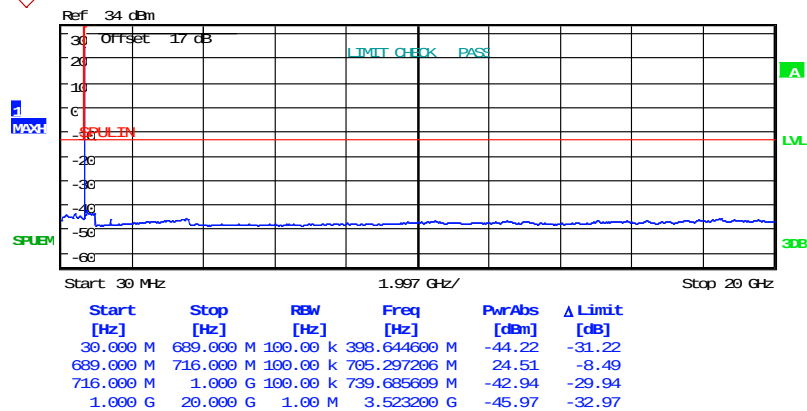
Date: 21.DEC.2025 03:05:11



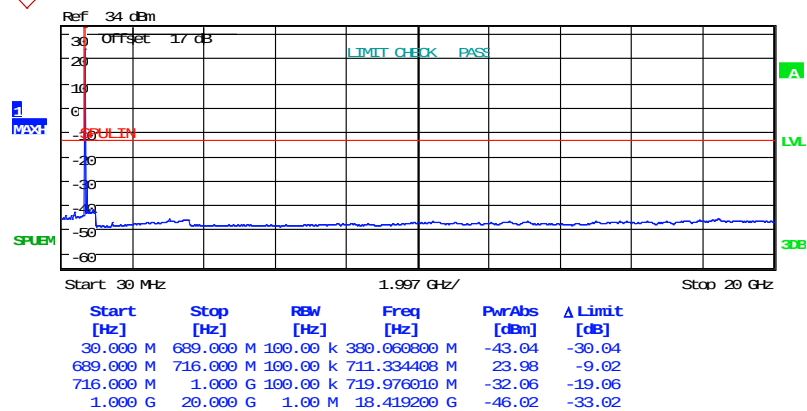
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22512-24856-C-247

FCC ID: GX9HSGWMAXF1919



Date: 21.DEC.2025 03:05:42



Date: 21.DEC.2025 03:06:27



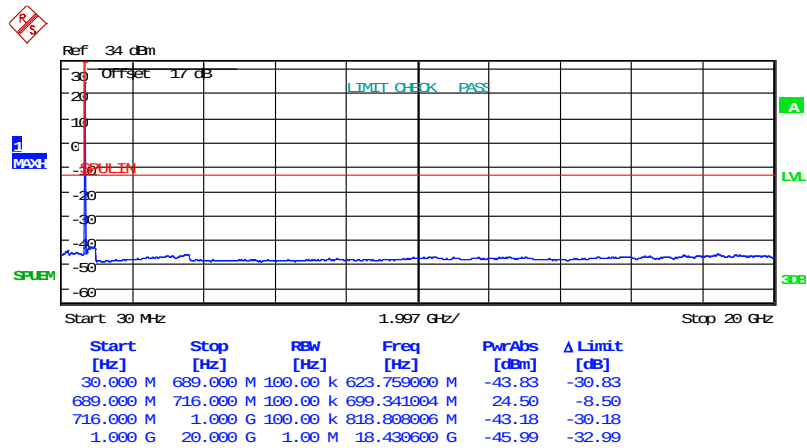
Registration number: W6M22512-24856-C-247

FCC ID: GX9HSGWMAXF1919

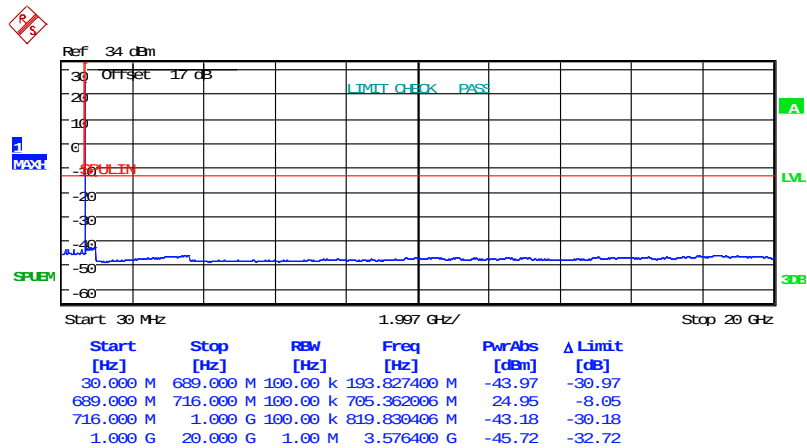
Band 12

5 MHz

16QAM



Date: 21.DEC.2025 03:07:56

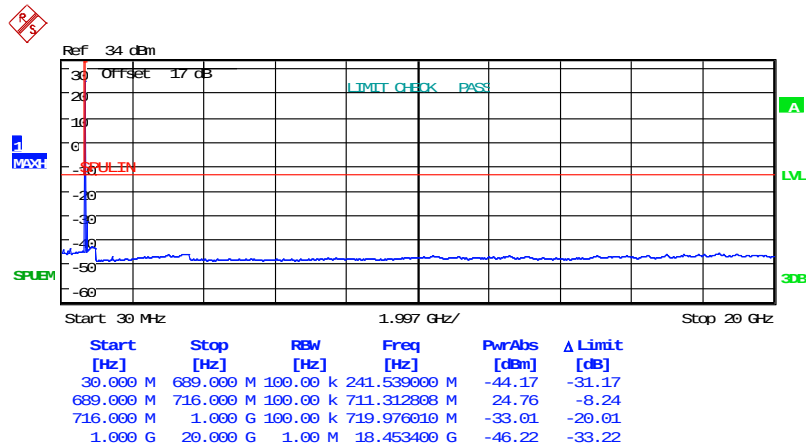


Date: 21.DEC.2025 03:07:24



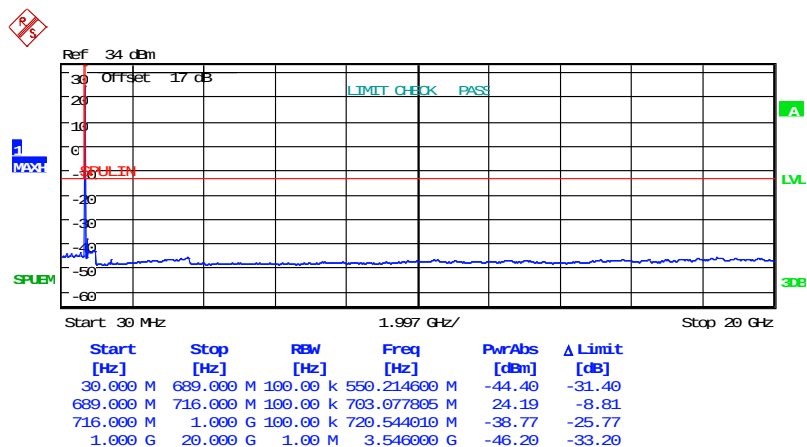
Registration number: W6M22512-24856-C-247

FCC ID: GX9HSGWMAXF1919



Date: 21.DEC.2025 03:06:54

Band 12
10 MHz
QPSK



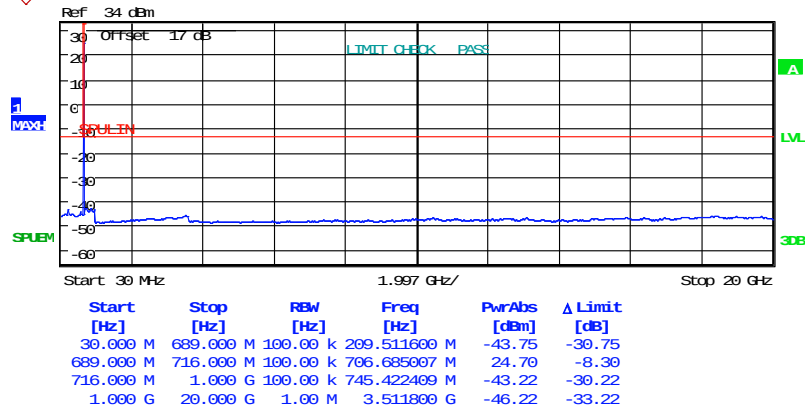
Date: 21.DEC.2025 03:10:07



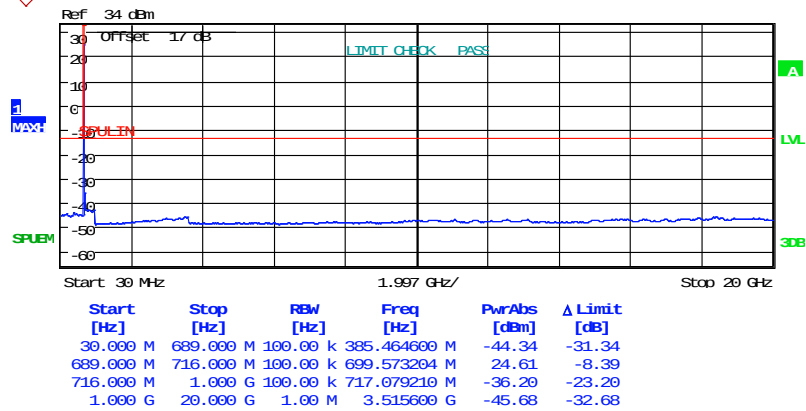
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22512-24856-C-247

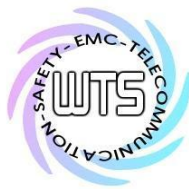
FCC ID: GX9HSGWMAXF1919



Date: 21.DEC.2025 03:10:39



Date: 21.DEC.2025 03:09:22



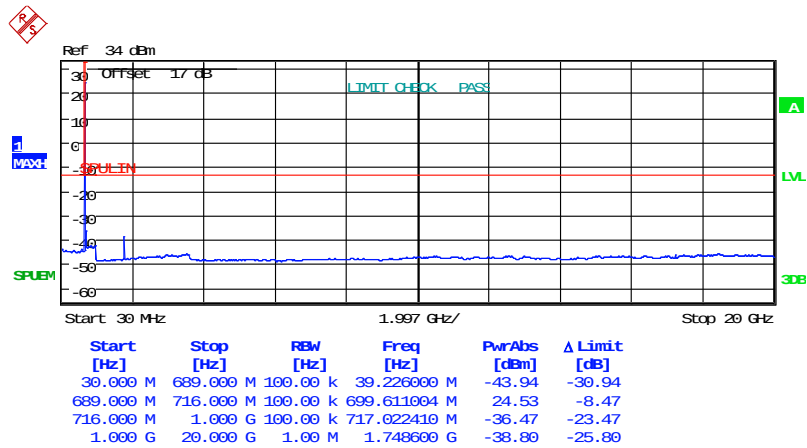
Registration number: W6M22512-24856-C-247

FCC ID: GX9HSGWMAXF1919

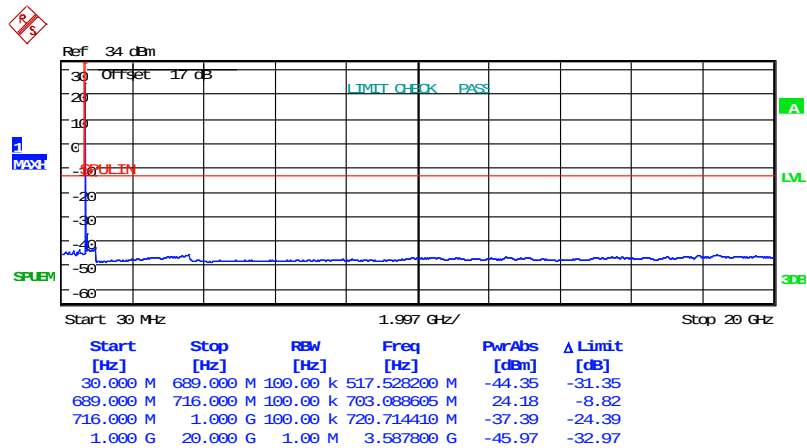
Band 12

10 MHz

16QAM



Date: 21.DEC.2025 03:13:43

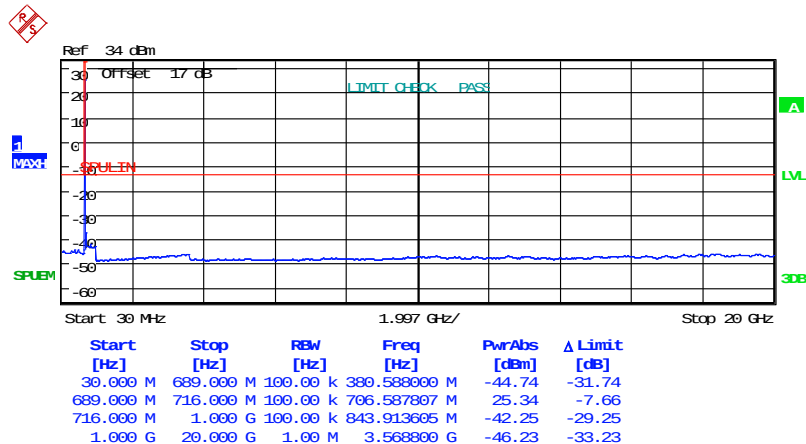


Date: 21.DEC.2025 03:11:54



Registration number: W6M22512-24856-C-247

FCC ID: GX9HSGWMAXF1919



Date: 21.DEC.2025 03:11:16

7.3 Explanation of test result

All factors like cable loss and external attenuation etc. are already included in the provided measurement results. This is done by using validated test software and calibrated test system according to the accreditation requirements.

7.4 Calculation of Limit for Spurious at Antenna Terminals

Compliance with § 22.917, §24.238, §27.53 requires that any emission be attenuated below the transmitter power at least $43 + 10 \log P$ (P = transmitter power in Watts).

Limit for Spurious Emissions at Antenna Terminals: $L=P-A=-13\text{dBm}$



Registration number: W6M22512-24856-C-247

FCC ID: GX9HSGWMAXF1919

8 Field Strength of Spurious Radiation

8.1 Test procedure

The test procedure for filed strength measurement is same as radiated power except for a notch filter or band pass filter is used to avoid the influence of fundamental to the pre-amplifier.

The measurements below 1GHz were performed with a measurement bandwidth of 100kHz, above 1GHz with a bandwidth of 1 MHz.

8.2 Test Results

The measurements of the spurious emission are at the upper, center and lower channel.

- Note**
- 1. Correction Factor = Antenna factor + Cable loss - Preamplifier**
 - 2. The formula of measured value as: Test Result = Reading + Correction Factor**
 - 3. Detector function in the form: PK = Peak, QP = Quasi Peak, AV = Average**
 - 4. All not in the table noted test results are more than 20 dB below the relevant limits.**
 - 5. See attached diagrams in appendix.**

8.3 Explanation of test result

Result Level = Reading Level + Corrected Factor

Corrected Factor = SG level – Received level-Cable loss + substitution antenna gain

8.4 Calculation of Limit for Field Strength of Spurious

Compliance with § 22.917, § 24.238, § 27.53, § 90.691 requires that any emission be attenuated below the transmitter power at least $43 + 10 \log P$ (P = transmitter power in Watts).

Limit for Spurious Emissions at Antenna Terminals: $L=P-A=-13\text{dBm}$



Registration number: W6M22512-24856-C-247

FCC ID: GX9HSGWMAXF1919

8.5 Test result of band edge emissions

Test date: December 20, 2025

Temperature: 23.2 °C

Humidity: 57.2 %

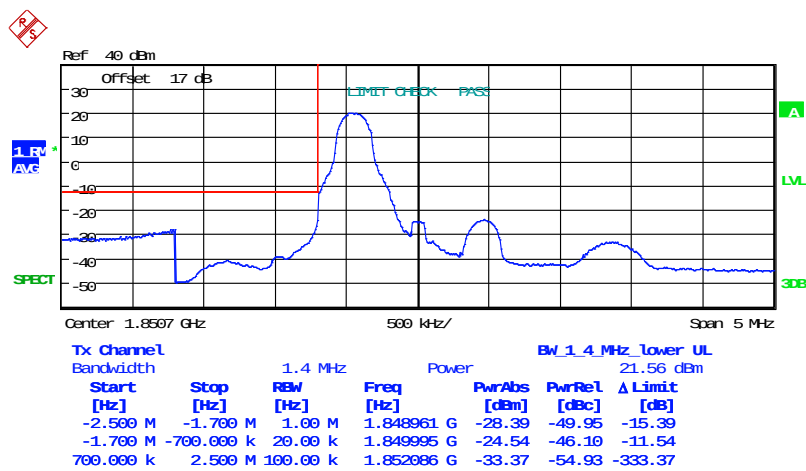
Tester: Rick

Band 2

1.4 MHz

QPSK

1RB

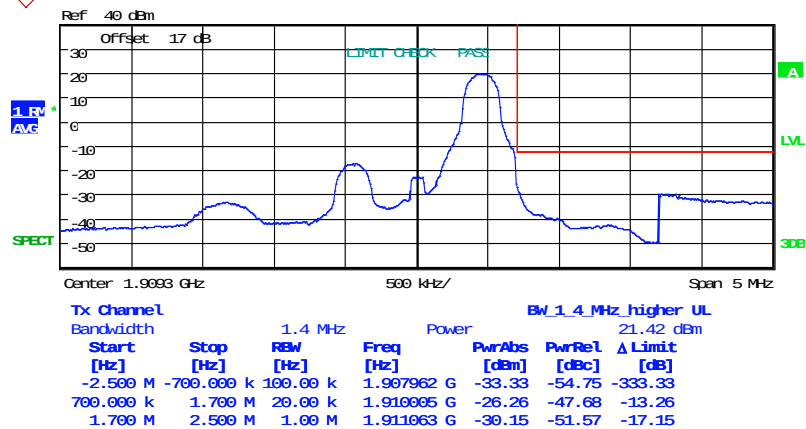


Date: 20.DEC.2025 22:45:46



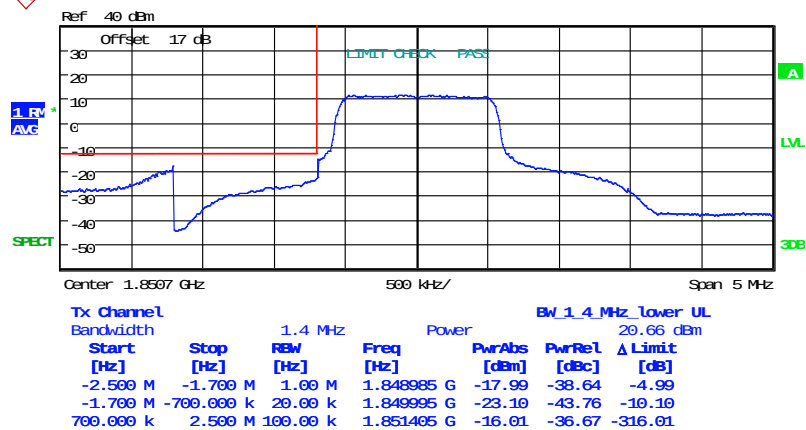
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FCC ID: GX9HSGWMAXF1919

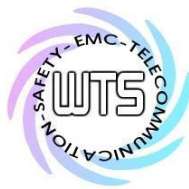


Date: 20.DEC.2025 23:06:15

FRB

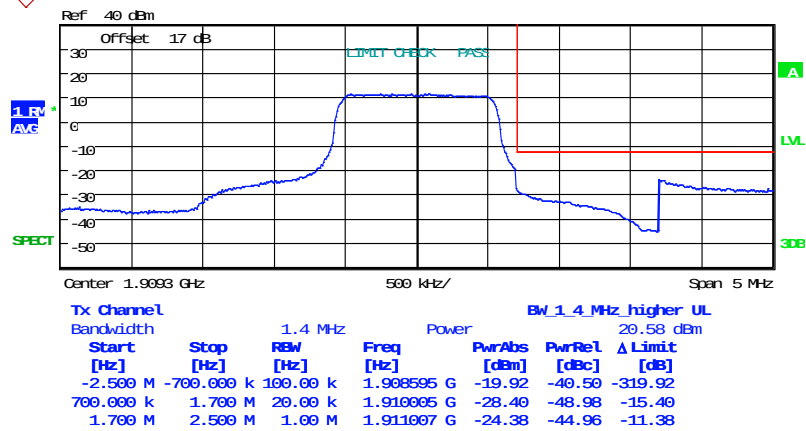


Date: 20.DEC.2025 23:00:56



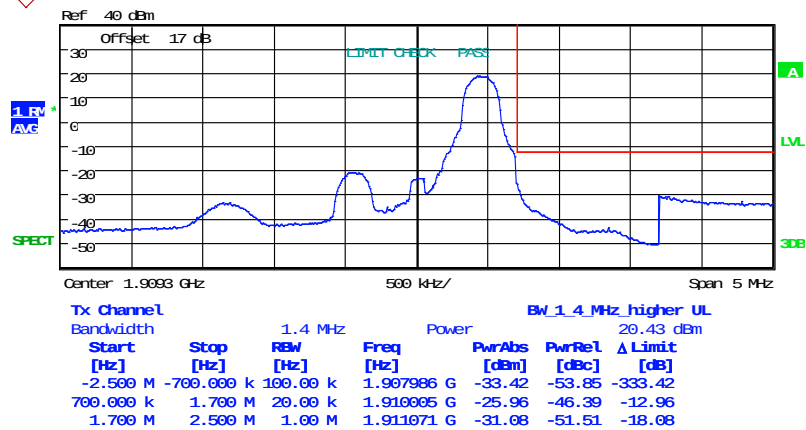
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FCC ID: GX9HSGWMAXF1919



Date: 20.DEC.2025 23:03:34

16QAM
1RB

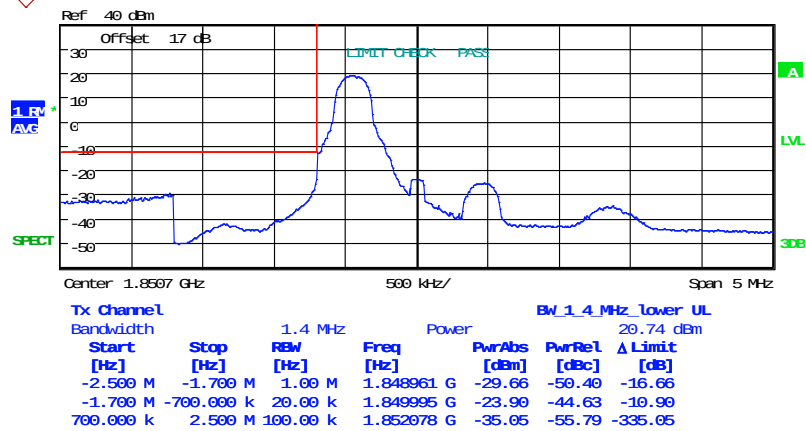


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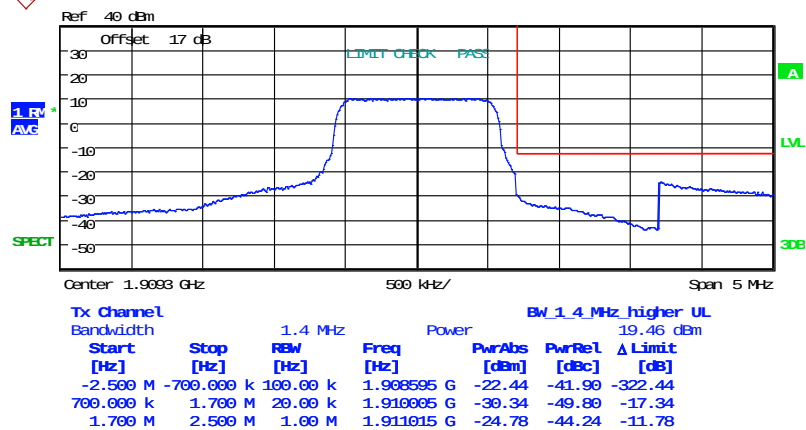
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FCC ID: GX9HSGWMAXF1919



Date: 20.DEC.2025 22:59:15

FRB

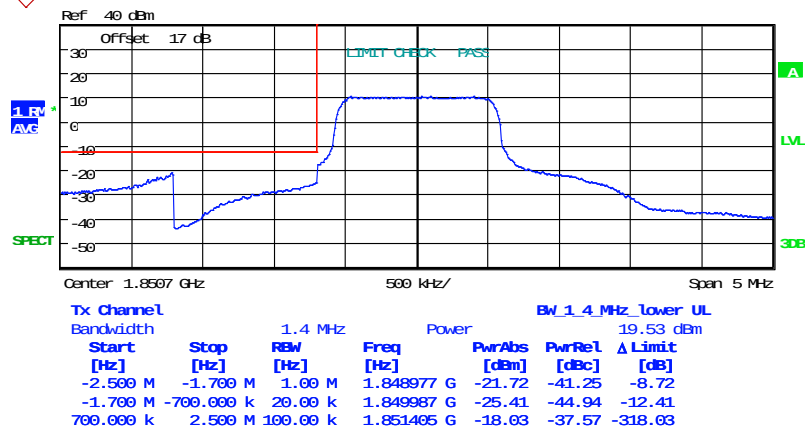


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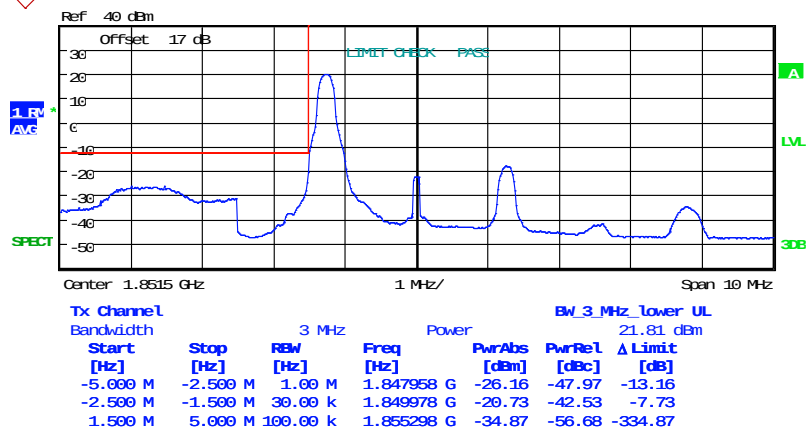
Registration number: W6M22512-24856-C-247

FCC ID: GX9HSGWMAXF1919



Date: 20.DEC.2025 23:00:17

3 MHz
QPSK
1RB



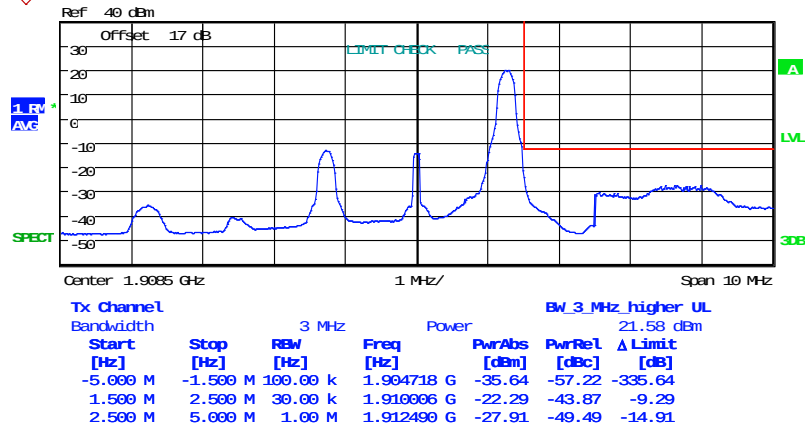
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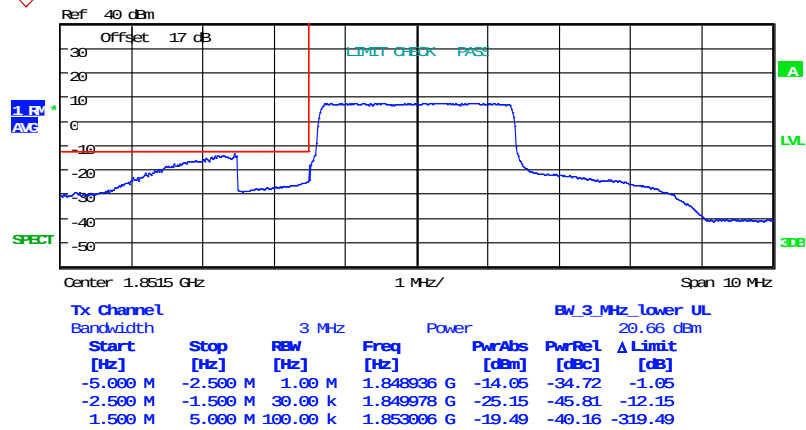
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FCC ID: GX9HSGWMAXF1919



Date: 20.DEC.2025 23:11:47

FRB

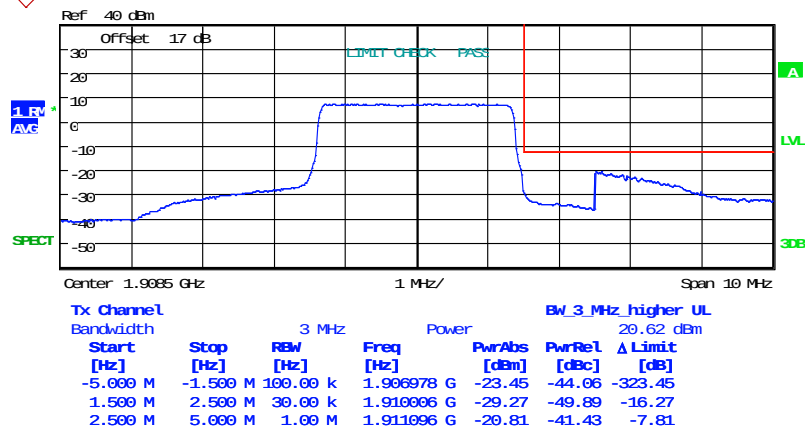


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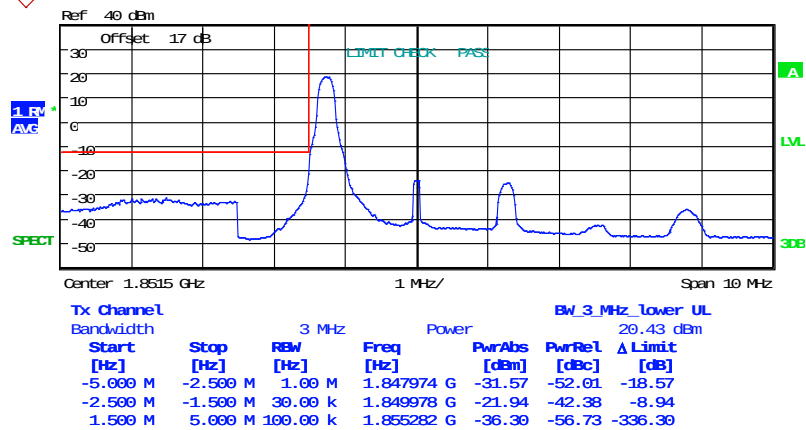
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Date: 20.DEC.2025 23:15:59

16QAM
1RB



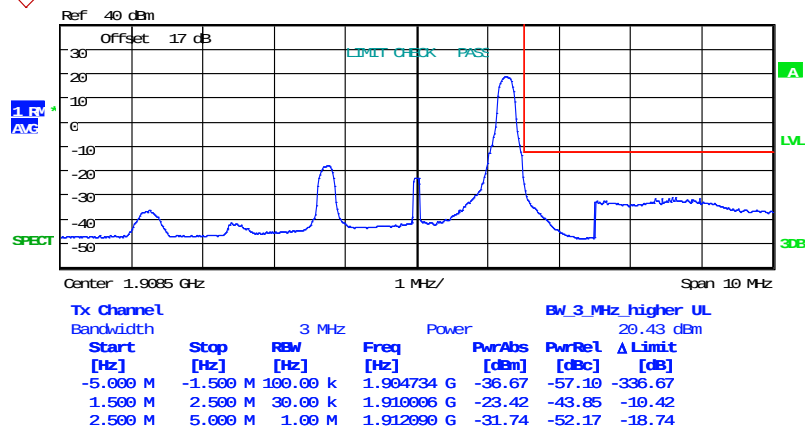
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Worldwide Testing Services(Taiwan) Co., Ltd.

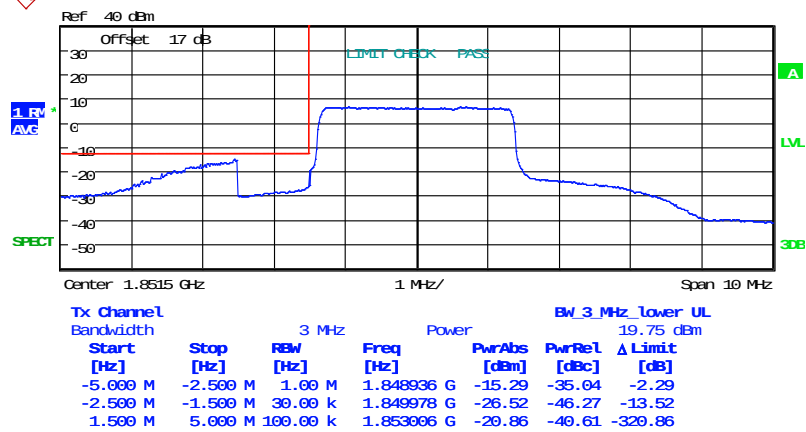
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Date: 20.DEC.2025 23:13:34

FRB

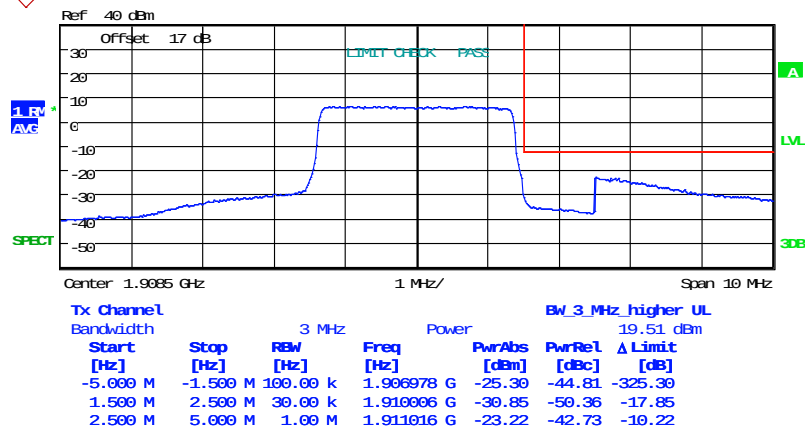


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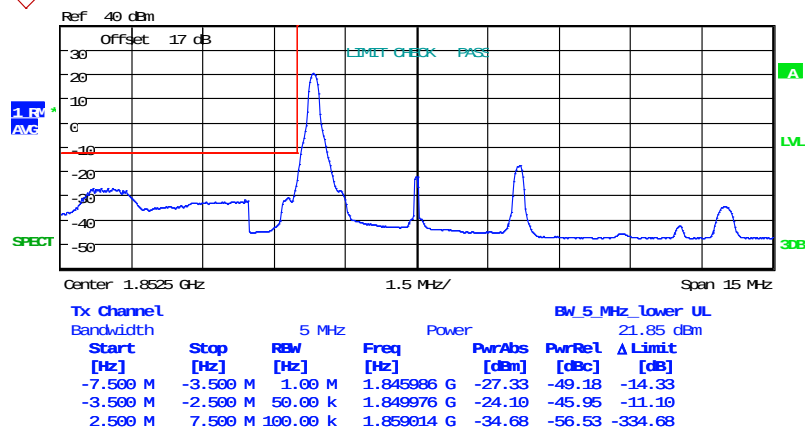
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FCC ID: GX9HSGWMAXF1919



Date: 20.DEC.2025 23:14:58

5 MHz
QPSK
1RB

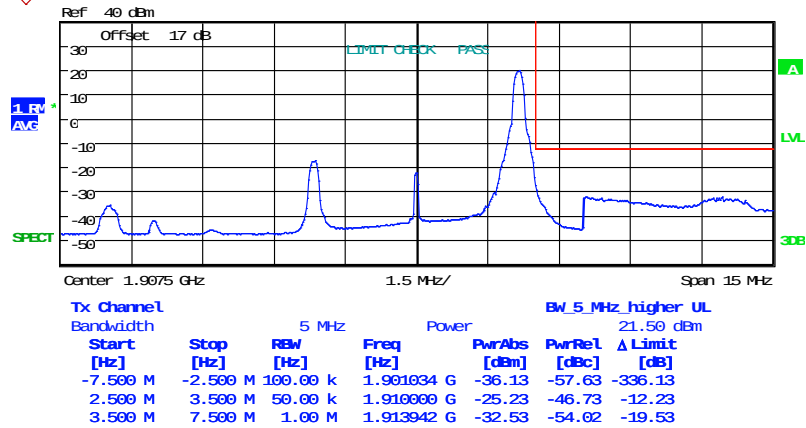


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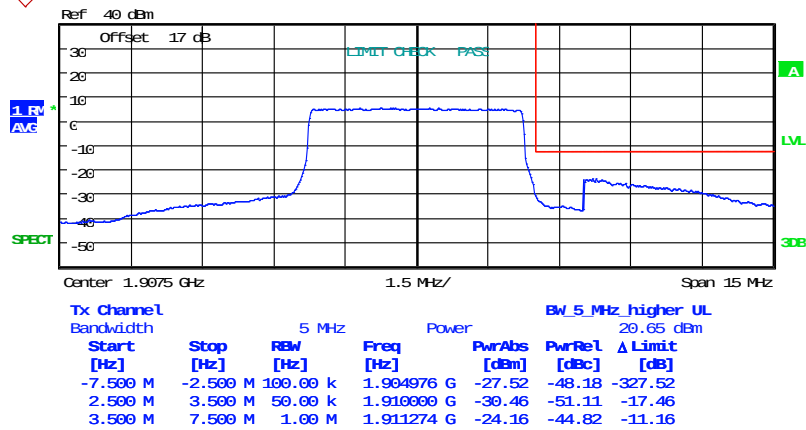
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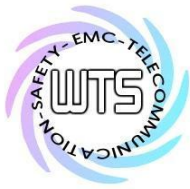


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FRB

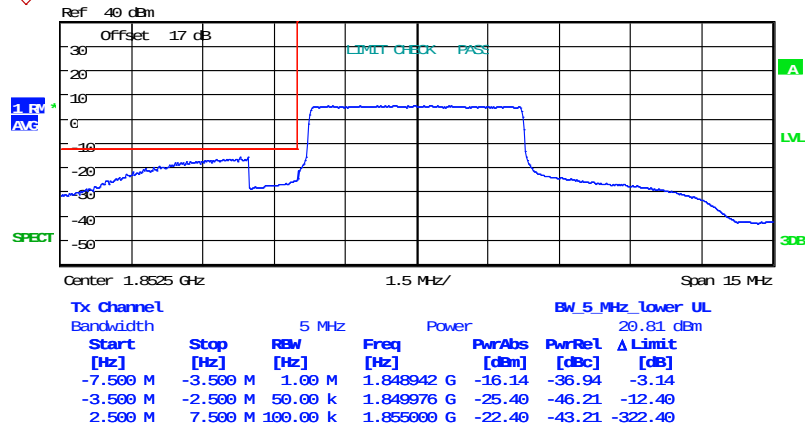


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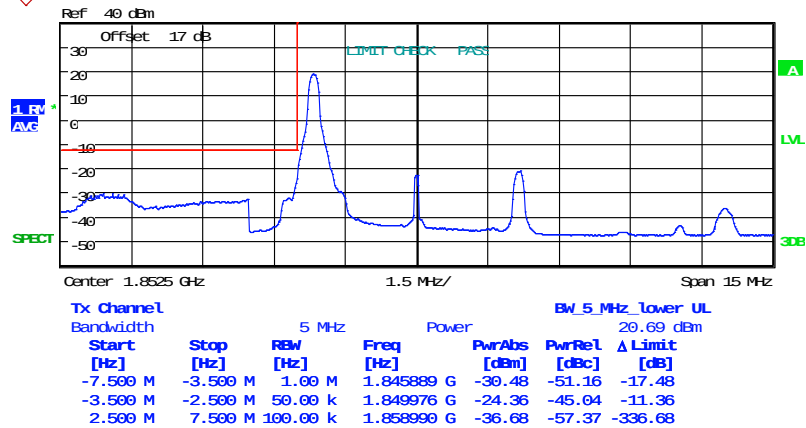
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FCC ID: GX9HSGWMAXF1919



Date: 20.DEC.2025 23:36:12

16QAM
1RB



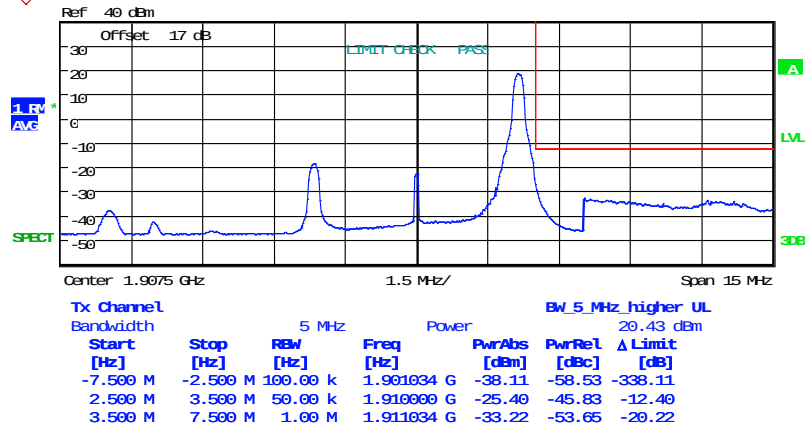
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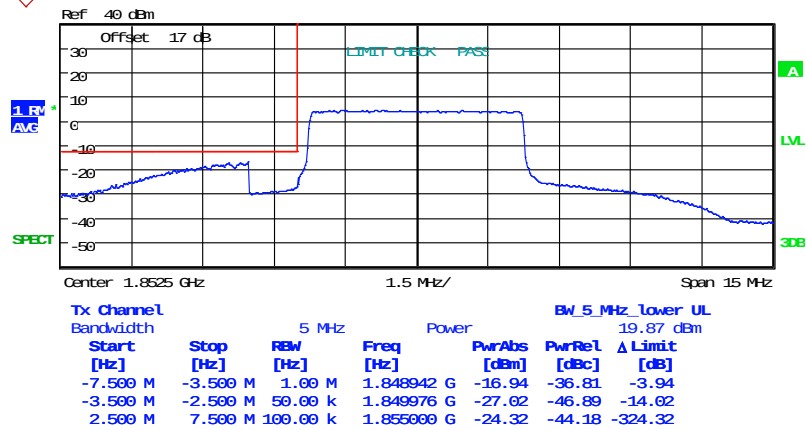
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FCC ID: GX9HSGWMAXF1919



Date: 20.DEC.2025 23:41:20

FRB

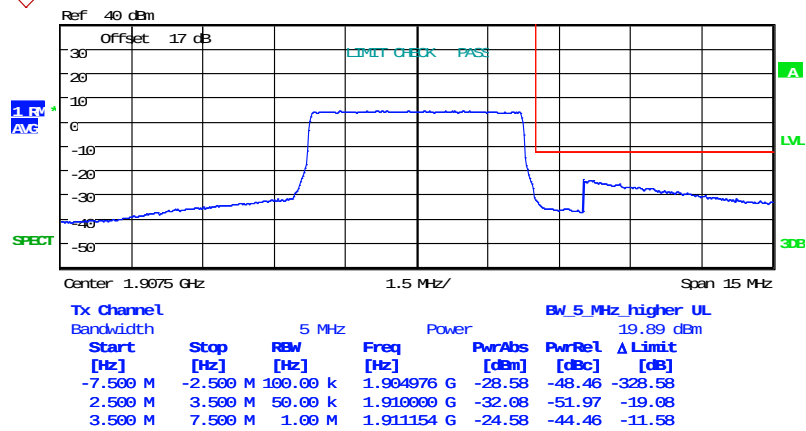


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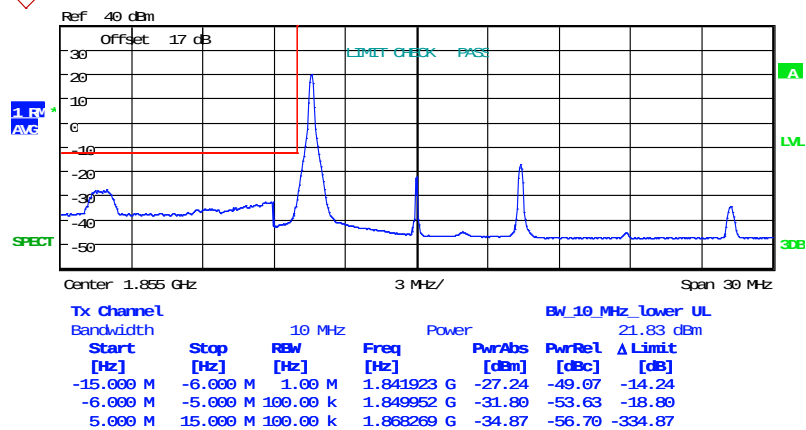
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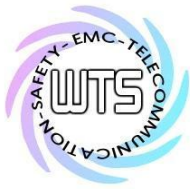


Date: 20.DEC.2025 23:42:01

10 MHz
QPSK
1RB

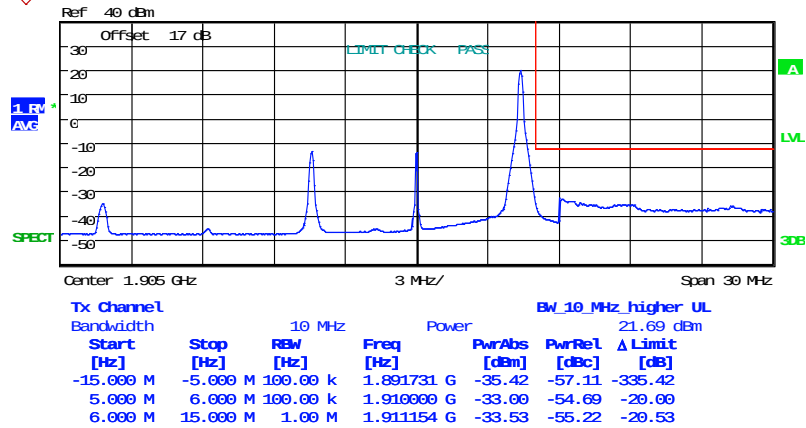


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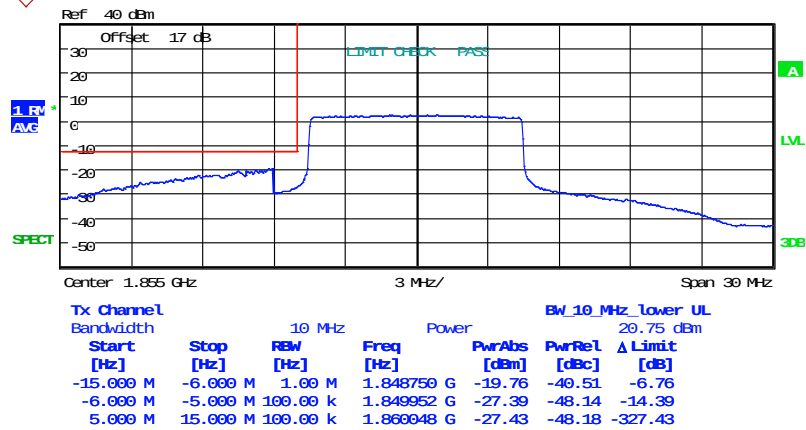
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FRB

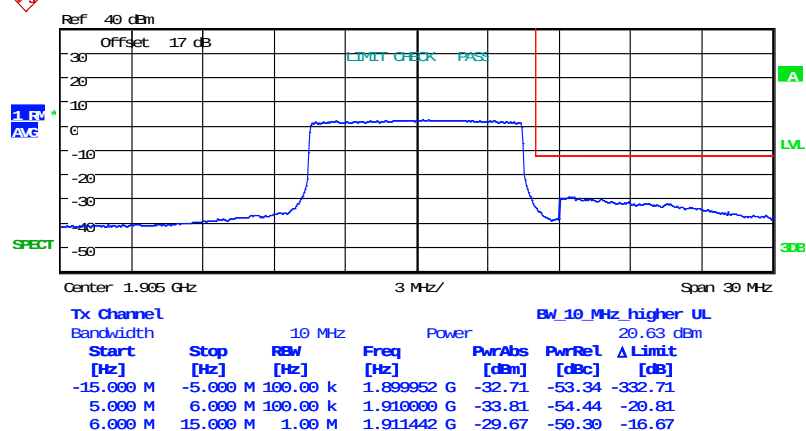


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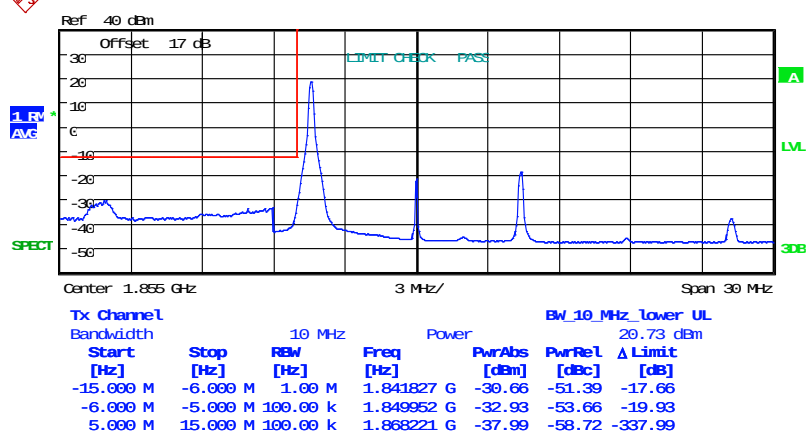
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FCC ID: GX9HSGWMAXF1919



Date: 20.DEC.2025 23:50:02

16QAM
1RB

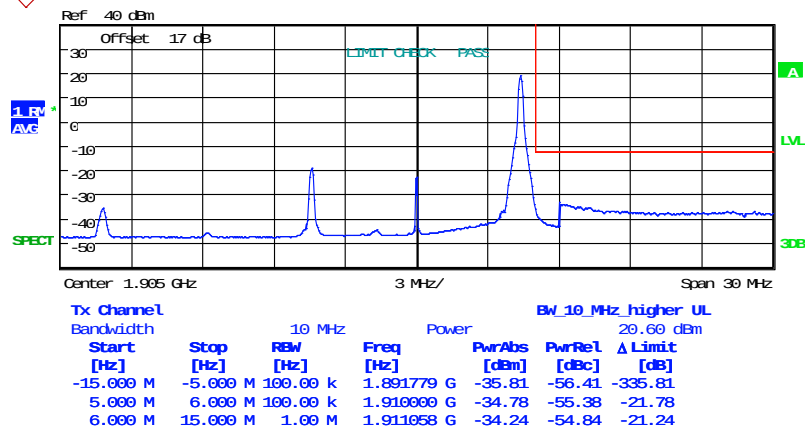


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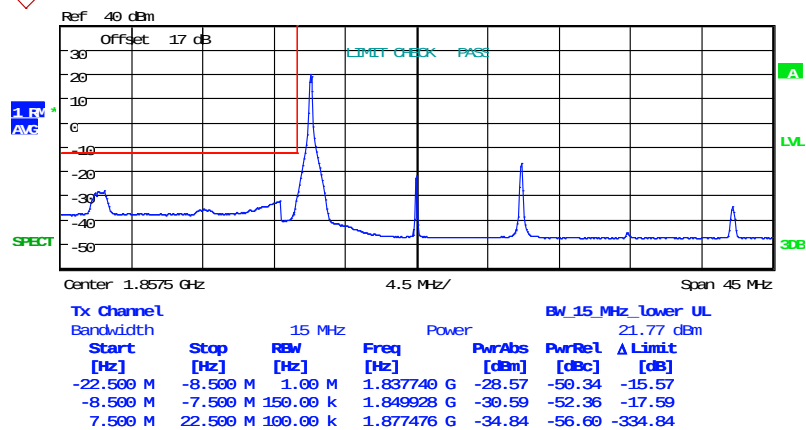
Registration number: W6M22512-24856-C-247

FCC ID: GX9HSGWMAXF1919



Date: 20.DEC.2025 23:48:41

15 MHz
QPSK
1RB

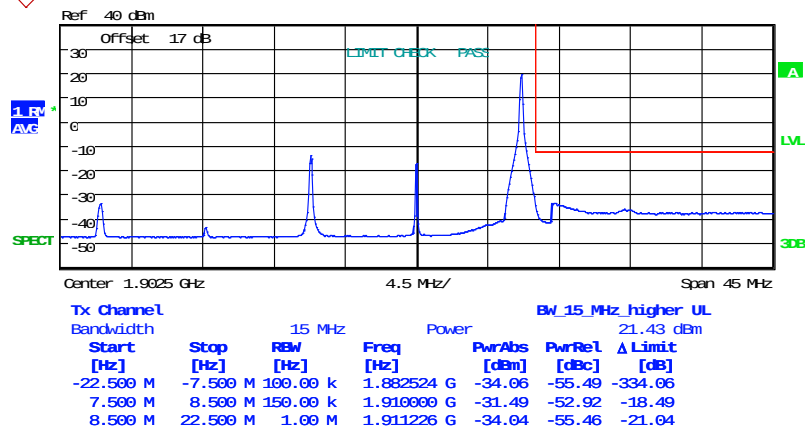


Date: 20.DEC.2025 23:53:45



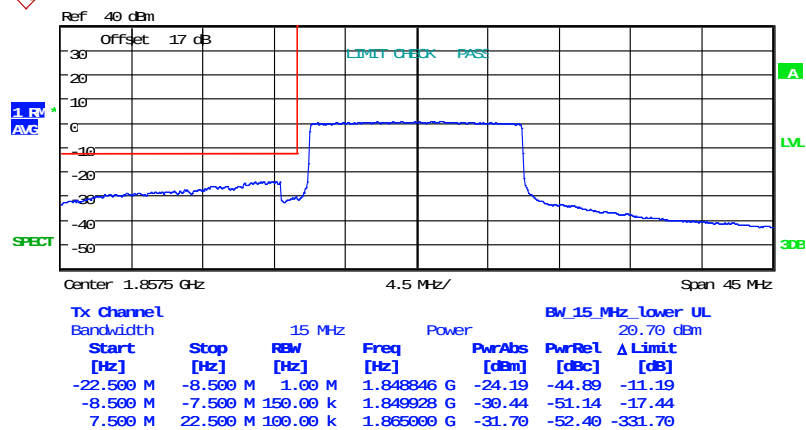
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FCC ID: GX9HSGWMAXF1919



Date: 20.DEC.2025 23:56:41

FRB

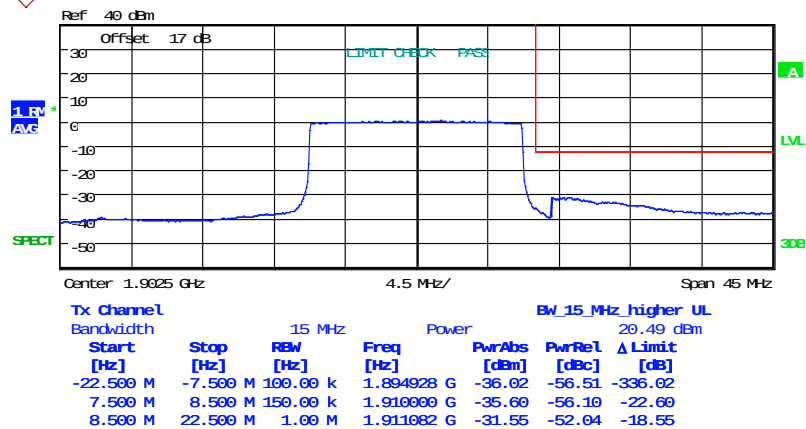


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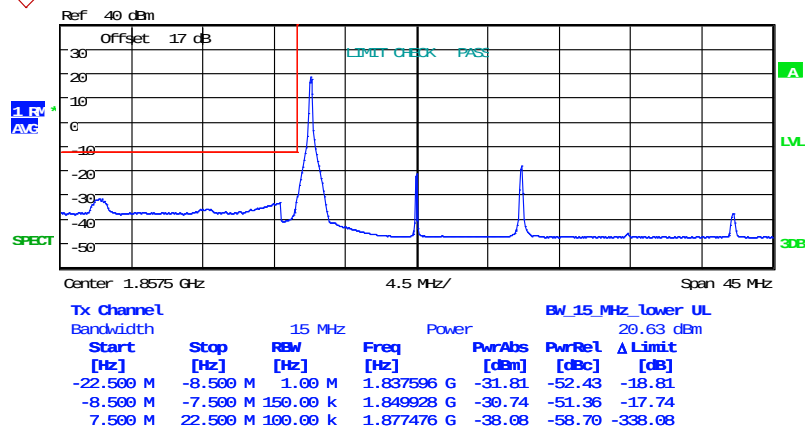
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FCC ID: GX9HSGWMAXF1919



Date: 20.DEC.2025 23:57:21

16QAM
1RB

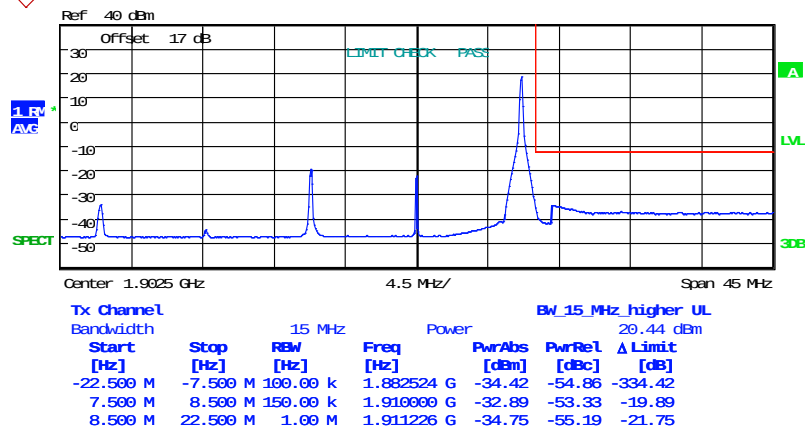


Date: 20.DEC.2025 23:54:21



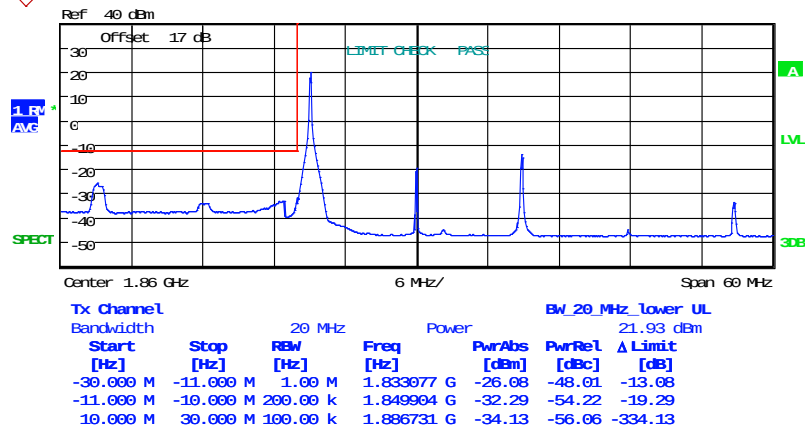
Registration number: W6M22512-24856-C-247

FCC ID: GX9HSGWMAXF1919



Date: 20.DEC.2025 23:55:59

20 MHz
QPSK
1RB

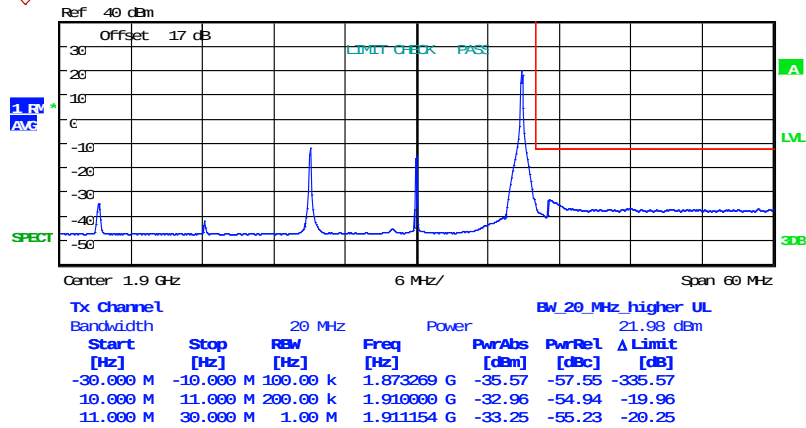


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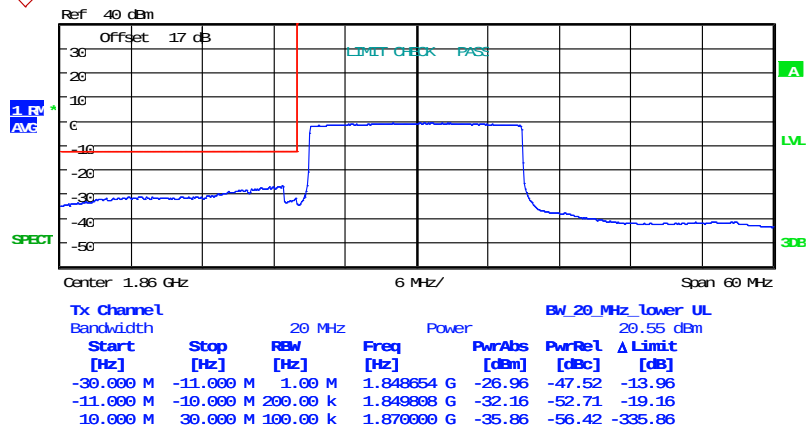
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Date: 21.DEC.2025 00:02:36

FRB

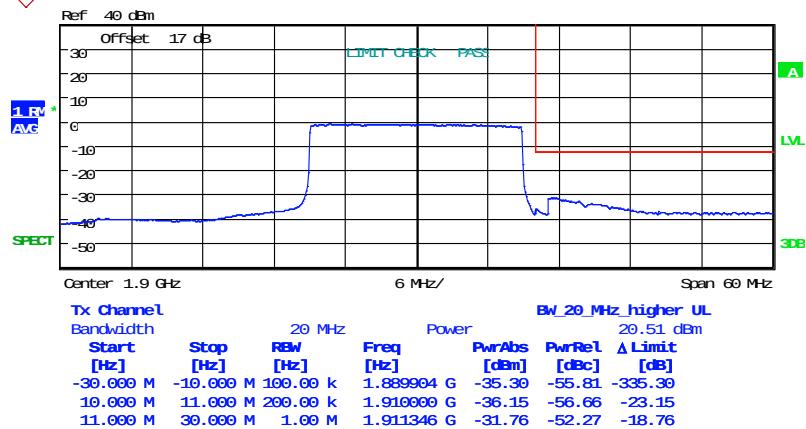


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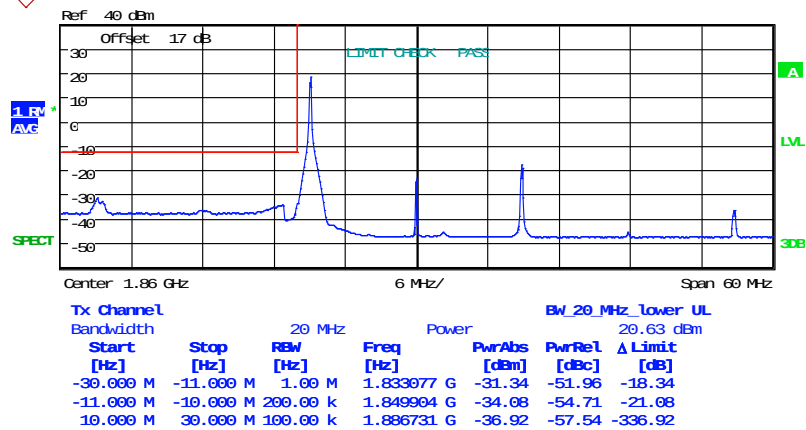
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FCC ID: GX9HSGWMAXF1919



Date: 21.DEC.2025 00:03:11

16QAM
1RB

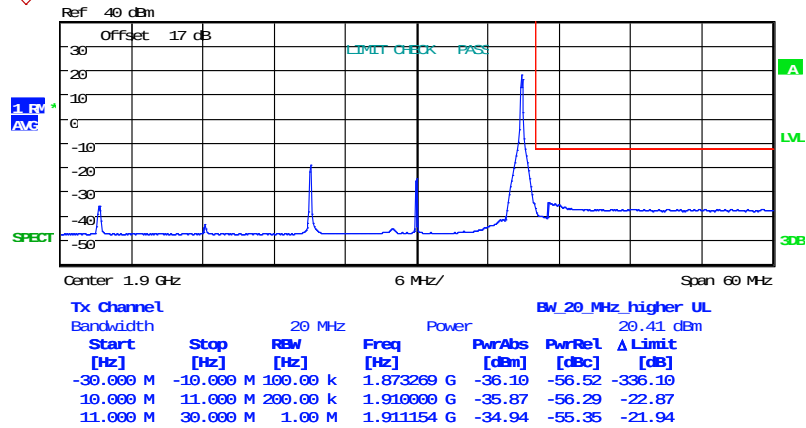


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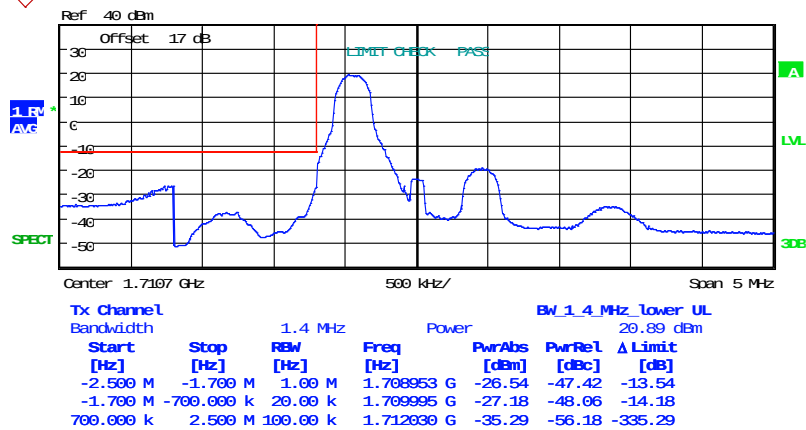
Registration number: W6M22512-24856-C-247

FCC ID: GX9HSGWMAXF1919



Date: 21.DEC.2025 00:02:06

Band 4
1.4 MHz
QPSK
1RB

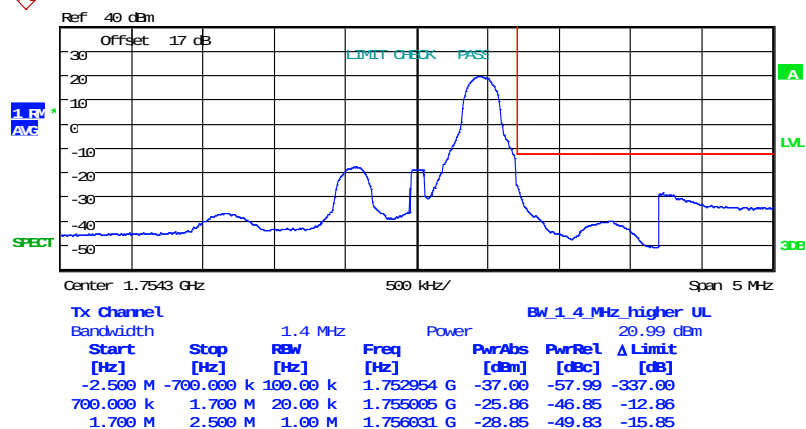


Date: 21.DEC.2025 00:19:37



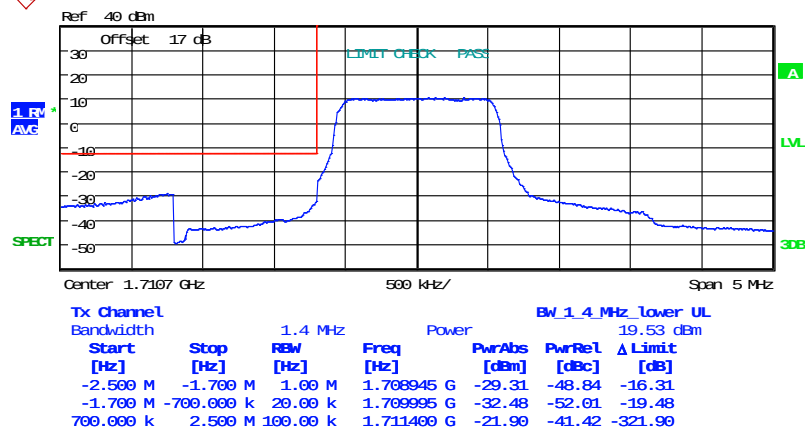
Registration number: W6M22512-24856-C-247

FCC ID: GX9HSGWMAXF1919



Date: 21.DEC.2025 00:24:05

FRB

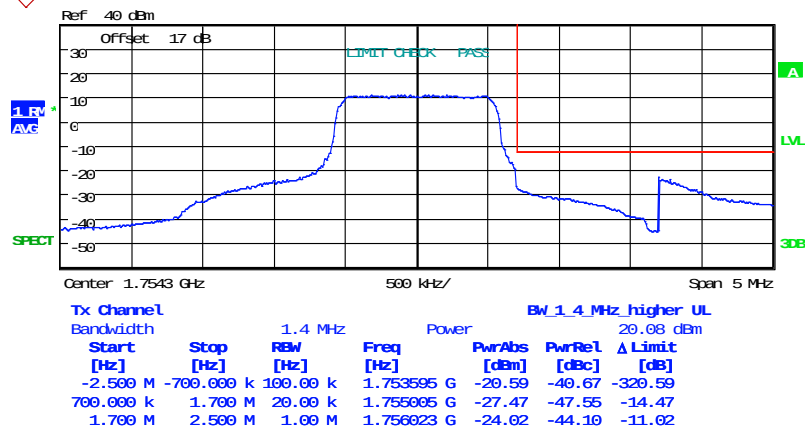


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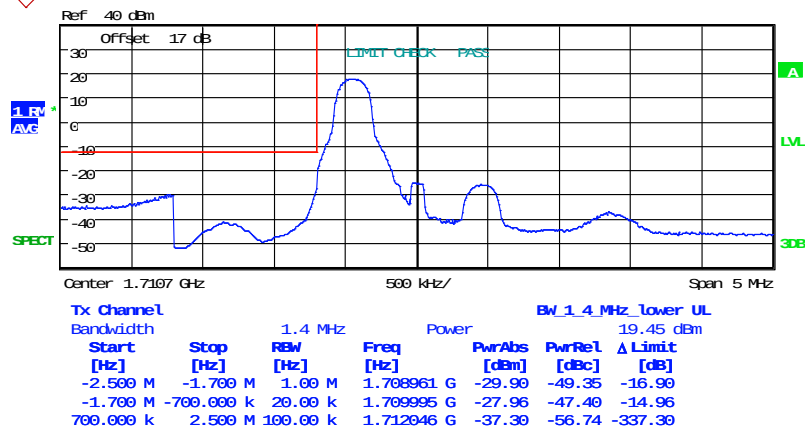
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FCC ID: GX9HSGWMAXF1919



Date: 21.DEC.2025 00:24:36

16QAM
1RB

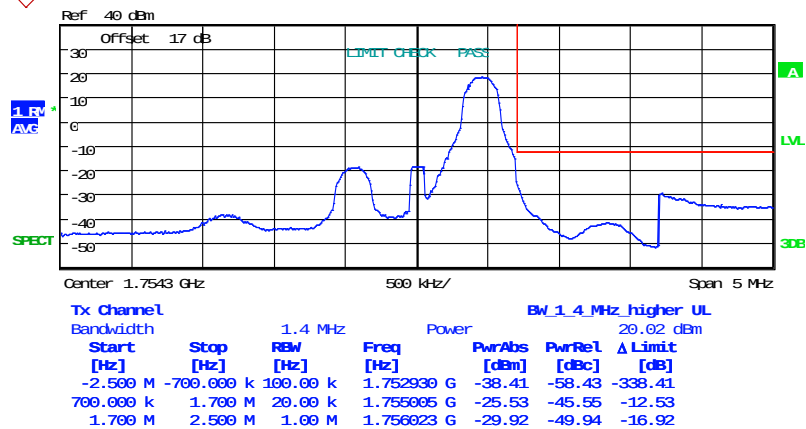


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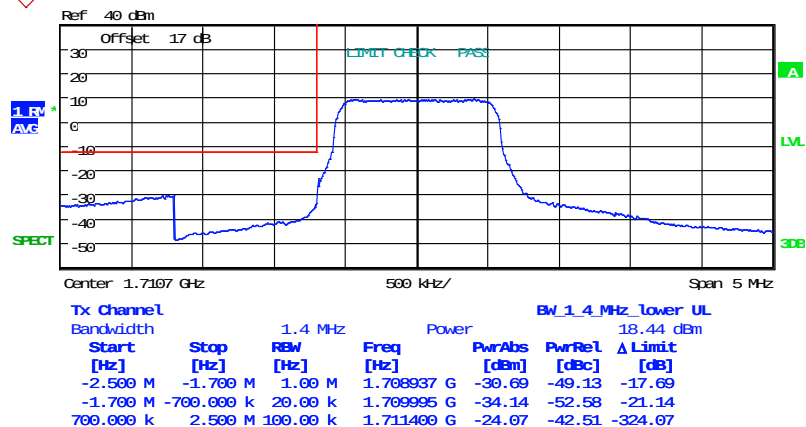
Registration number: W6M22512-24856-C-247

FCC ID: GX9HSGWMAXF1919



Date: 21.DEC.2025 00:23:29

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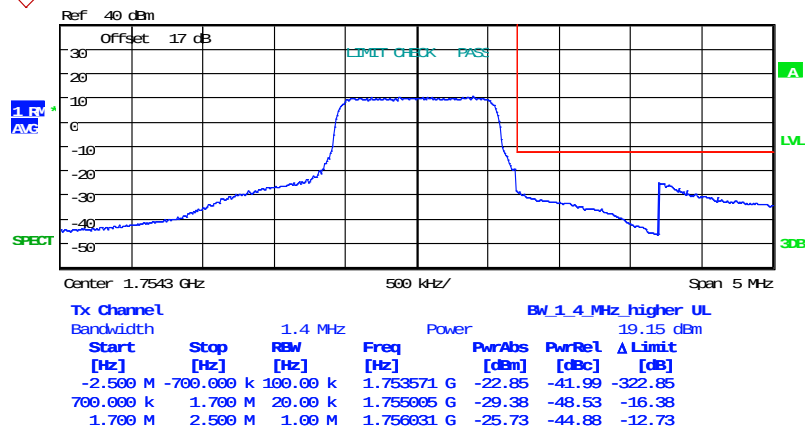


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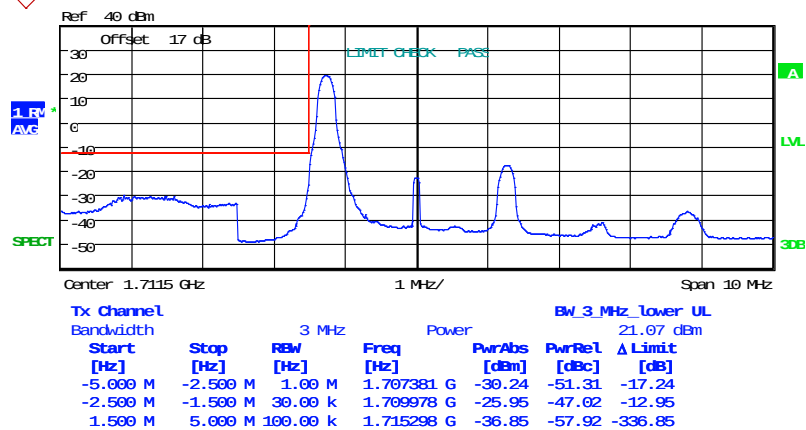
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FCC ID: GX9HSGWMAXF1919



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3 MHz
QPSK
1RB

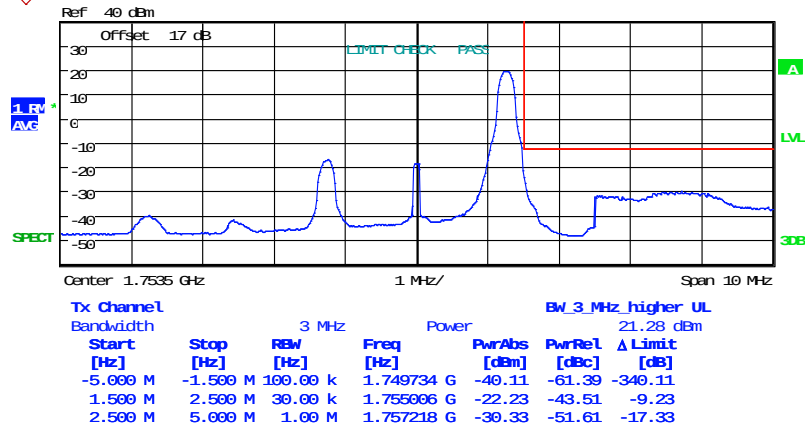


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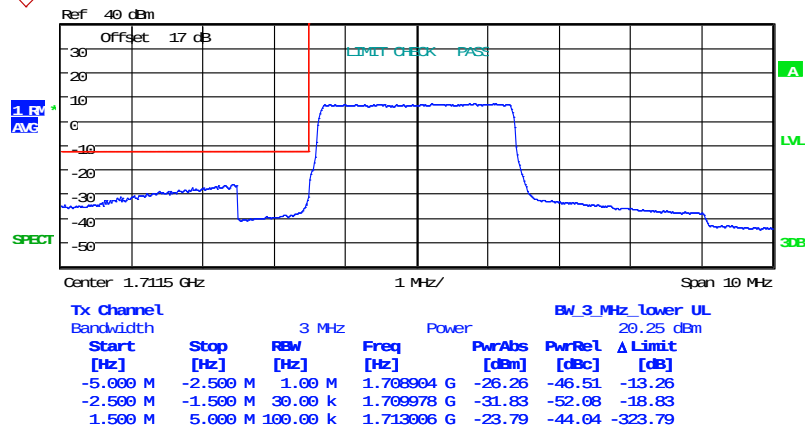
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Date: 21.DEC.2025 00:48:57

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Date: 21.DEC.2025 00:44:23