

47 CFR PART 15 SUBPART E TEST REPORT

for

4x4 Dual Band 802.11ac wave2 Wireless Module

Model No.: WMX6402-AS

FCC ID: W23-WMXWAVE2AS

of

Applicant: JJPlus Corporation

Address: 15F-7, No. 2, Jianba Road, Zhonghe Dist., New Taipei City
Taiwan

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.: W6R22002-19655-C-54-R2

6F, NO. 58, LANE 188, RUEY-KUANG RD., NEIHU TAIPEI 114, TAIWAN, R.O.C.
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Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS

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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 its performance generally conforms to representative cases of communications equipment.

Laboratory disclaimer-

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

Specific Conditions:

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

Tester:

September 28, 2022

Kent Lin

Date

WTS-Lab.

Name

Signature

Technical responsibility for area of testing:

September 28, 2022

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:	./.
Telephone:	./.
Fax:	./.

1.3 Details of approval holder

Name:	JJPlus Corporation
Street:	15F-7, No. 2, Jianba Road, Zhonghe Dist.,
Town:	New Taipei City
Country:	Taiwan

1.4 Application details

Date of receipt of test item(1 st):	August 23, 2019
Date of test(1 st):	from August 26, 2019 to October 22, 2019
Date of receipt of test item(2 nd):	February 20, 2020
Date of test(2 nd):	from February 21, 2020 to May 04, 2020
Date of receipt of test item(3 rd):	June 14, 2022
Date of test(3 rd):	from June 14, 2022 to September 19, 2022



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1.5 General information of Test item

Type of test item: 4x4 Dual Band 802.11ac wave2 Wireless Module
 Model Number: WMX6402-AS
 Brand Name: jjPlus CORP.
 Multi-listing model number: WMX6302-AS,WMX5402-AS,WMX2402-AS,WMX6401-AS,
 WMX6301-AS,WMX5401-AS,WMX2401-AS
 Sample no.: #03
 S/N: WF190119080003
 Software version: V1.0

Technical data

Frequency band and test channel

	Channel	Band1 5.150 GHz-5.250 GHz	NII-2A 5.250 GHz-5.350 GHz	NII-2C 5.470 GHz-5.725 GHz	NII-3 5.725 GHz-5.850 GHz
802.11a	Low	CH36 : 5180MHz	CH52 : 5260MHz	CH100 : 5500 MHz	CH149 : 5745 MHz
	Middle	CH44 : 5220MHz	CH60 : 5300MHz	CH116 : 5580 MHz	CH157 : 5785 MHz
	High	CH48 : 5240MHz	CH64 : 5320MHz	CH140 : 5700 MHz	CH165 : 5825 MHz
802.11n 20MHz	Low	CH36 : 5180MHz	CH52 : 5260MHz	CH100 : 5500 MHz	CH149 : 5745 MHz
	Middle	CH44 : 5220MHz	CH60 : 5300MHz	CH116 : 5580 MHz	CH157 : 5785 MHz
	High	CH48 : 5240MHz	CH64 : 5320MHz	CH140 : 5700 MHz	CH165 : 5825 MHz
802.11n 40MHz	Low	CH38 : 5190 MHz	CH54 : 5270 MHz	CH102 : 5510 MHz	CH151 : 5755 MHz
	Middle			CH110 : 5550 MHz	
	High	CH46 : 5230 MHz	CH62 : 5310 MHz	CH134 : 5670 MHz	CH159 : 5795 MHz
802.11n 80MHz		CH42 : 5210 MHz	CH58 : 5210 MHz	CH106 : 5530 MHz	CH155 : 5775 MHz

Operating modes: Duplex
 Type of modulation: OFDM
 Fixed point to point operation: No
 Antenna: Dipole antenna
 Antenna gain: 3 dBi (for model no: AOA160-221020-000000)
 2 dBi (for model no : A8-A003-A9001)
 Directional gain: 9.02 dBi
 Power supply: 3.3Vd.c.
 Adaptor (I/P: 100-240V~, 50-60Hz, 0.7A Max. O/P: 12V, 2A)
 (for testing)



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Band		Numbers of channel	Emission designator
5.15 GHz~5.25GHz	802.11a	4	16M6D1D
	802.11n 20 MHz	4	18M1D1D
	802.11n 40 MHz	2	36M5D1D
	802.11ac 80 MHz	1	76M2D1D
5.25 GHz~5.35GHz	802.11a	4	16M7D1D
	802.11n 20 MHz	4	18M0D1D
	802.11n 40 MHz	2	36M7D1D
	802.11ac 80 MHz	1	76M2D1D
5.47 GHz~5.725GHz	802.11a	11	19M1D1D
	802.11n 20 MHz	11	18M5D1D
	802.11n 40 MHz	5	37M5D1D
	802.11ac 80 MHz	1	77M5D1D
5.725 GHz~5.85GHz	802.11a	5	16M4D1D
	802.11n 20 MHz	5	18M3D1D
	802.11n 40 MHz	2	36M5D1D
	802.11ac 80 MHz	1	75M9D1D

Note:

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

Classification:

Fixed Device	☐
Mobile Device (Human Body distance > 20cm)	☐
Portable Device (Human Body distance < 20cm)	☐
Modular Radio Device	☒

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

Manufacturer: (if applicable)

Name: ./.

Street: ./.

Town: ./.

Country: ./.



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		ANT 1	ANT 2	ANT 3	ANT 4
5.15 GHz~5.25GHz	IEEE 802.11 a	Mode A	Mode A	Mode A	Mode A
	IEEE 802.11 n(20M)	Mode B	Mode B	Mode B	Mode B
	IEEE 802.11 n(40M)	Mode C	Mode C	Mode C	Mode C
	IEEE 802.11 ac(80M)	Mode D	Mode D	Mode D	Mode D
5.25 GHz~5.35GHz	IEEE 802.11 a	Mode E	Mode E	Mode E	Mode E
	IEEE 802.11 n(20M)	Mode F	Mode F	Mode F	Mode F
	IEEE 802.11 n(40M)	Mode G	Mode G	Mode G	Mode G
	IEEE 802.11 ac(80M)	Mode H	Mode H	Mode H	Mode H
5.47 GHz~5.725GHz	IEEE 802.11 a	Mode I	Mode I	Mode I	Mode I
	IEEE 802.11 n(20M)	Mode J	Mode J	Mode J	Mode J
	IEEE 802.11 n(40M)	Mode K	Mode K	Mode K	Mode K
	IEEE 802.11 ac(80M)	Mode L	Mode L	Mode L	Mode L
5.725 GHz~5.85GHz	IEEE 802.11 a	Mode M	Mode M	Mode M	Mode M
	IEEE 802.11 n(20M)	Mode N	Mode N	Mode N	Mode N
	IEEE 802.11 n(40M)	Mode O	Mode O	Mode O	Mode O
	IEEE 802.11 ac(80M)	Mode P	Mode P	Mode P	Mode P

Power setting

802.11A power setting						
BAND	Channel	Frequency(MHz)	POWER SETTING			
			Ant0	Ant1	Ant2	Ant3
B1 U-NII-1	36	5180	19	19	19	19
	44	5220	19	19	19	19
	48	5240	19	19	19	19
B2 U-NII-2A	52	5260	18	18	18	18
	60	5300	18	18	18	18
	64	5320	18	18	18	18
B3 U-NII-2C	100	5500	17	17	17	17
	116	5580	17	17	17	17
	140	5700	18	18	18	18
B4 U-NII-3	149	5745	17	17	17	17
	157	5785	17	17	17	17
	165	5825	17	17	17	17

802.11N20 power setting						
BAND	Channel	Frequency(MHz)	POWER SETTING			
			Ant0	Ant1	Ant2	Ant3
B1	36	5180	13			
	44	5220	12			
	48	5240	13			



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B2	52	5260	11
	60	5300	10
	64	5320	9
B3	100	5500	11
	116	5580	11
	140	5700	8.5
B4	149	5745	16
	157	5785	15.5
	165	5825	15.5

802.11N40 power setting						
BAND	Channel	Frequency(MHz)	POWER SETTING			
			Ant0	Ant1	Ant2	Ant3
B1	38	5190	13			
	46	5230	13			
B2	54	5270	10			
	62	5310	11			
B3	102	5510	12			
	110	5550	12			
	134	5670	10.5			
B4	151	5755	15.5			
	159	5795	15.5			

802.11AC80 power setting						
BAND	Channel	Frequency(MHz)	POWER SETTING			
			Ant0	Ant1	Ant2	Ant3
B1	42	5210	12			
B2	58	5290	11			
B3	106	5530	12			
B4	155	5775	15			



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Transmitter Conducted Power

Band 1 (5.15 GHz~5.25GHz)	Antenna 1	Antenna 2	Antenna 3	Antenna 4
Mode A (OFDM)				
Power (ch 36 or A):	18.18 dBm	17.37 dBm	16.41 dBm	16.84 dBm
Power (ch 44 or B):	18.36 dBm	17.81 dBm	16.66 dBm	16.89 dBm
Power (ch 48 or C):	18.22 dBm	17.48 dBm	16.64 dBm	16.77 dBm
Mode B (OFDM)				
Power (ch 36 or A):	12.85 dBm	11.77 dBm	11.44 dBm	11.08 dBm
Power (ch 44 or B):	11.74 dBm	10.79 dBm	10.94 dBm	10.32 dBm
Power (ch 48 or C):	12.64 dBm	11.18 dBm	11.85 dBm	11.26 dBm
Mode C (OFDM)				
Power (ch 38 or A):	11.91 dBm	11.71 dBm	9.41 dBm	10.71 dBm
Power (ch 46 or B):	11.82 dBm	11.65 dBm	9.66 dBm	11.02 dBm
Mode D (OFDM)				
Power (ch 42 or A):	10.73 dBm	10.17 dBm	8.70 dBm	10.06 dBm

NII-2A (5.25 GHz~5.35GHz)	Antenna 1	Antenna 2	Antenna 3	Antenna 4
Mode E (OFDM)				
Power (ch 52 or A):	16.84 dBm	16.26 dBm	15.77 dBm	15.64 dBm
Power (ch 60 or B):	16.77 dBm	16.28 dBm	15.68 dBm	15.65 dBm
Power (ch 64 or C):	16.81 dBm	16.12 dBm	15.68 dBm	15.50 dBm
Mode F (OFDM)				
Power (ch 52 or A):	10.50 dBm	8.62 dBm	9.60 dBm	9.20 dBm
Power (ch 60 or B):	9.69 dBm	7.35 dBm	8.90 dBm	8.14 dBm
Power (ch 64 or C):	8.58 dBm	5.55 dBm	7.84 dBm	7.34 dBm
Mode G (OFDM)				
Power (ch 54 or A):	8.32 dBm	7.33 dBm	6.41 dBm	8.21 dBm
Power (ch 62 or B):	9.42 dBm	9.02 dBm	7.58 dBm	8.59 dBm
Mode H (OFDM)				
Power (ch 58 or A):	9.70 dBm	8.94 dBm	7.80 dBm	8.79 dBm



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NII-2C (5.47 GHz~5.725GHz)	Antenna 1	Antenna 2	Antenna 3	Antenna 4
Mode I (OFDM)				
Power (ch 100 or A):	15.47 dBm	14.12 dBm	13.60 dBm	13.98 dBm
Power (ch 116 or B):	15.24 dBm	14.29 dBm	14.13 dBm	14.13 dBm
Power (ch 140 or C):	16.54 dBm	15.38 dBm	15.26 dBm	15.05 dBm
Mode J (OFDM)				
Power (ch 100 or A):	10.18 dBm	6.35 dBm	8.68 dBm	8.79 dBm
Power (ch 116 or B):	10.87 dBm	7.23 dBm	9.20 dBm	9.36 dBm
Power (ch 140 or C):	8.22 dBm	5.51 dBm	6.78 dBm	6.60 dBm
Mode K (OFDM)				
Power (ch 102 or A):	10.67 dBm	8.49 dBm	7.97 dBm	9.26 dBm
Power (ch 110 or B):	11.16 dBm	9.01 dBm	8.82 dBm	9.59 dBm
Power (ch 134 or C):	9.05 dBm	7.47 dBm	7.91 dBm	7.92 dBm
Mode L (OFDM)				
Power (ch 106 or A):	10.73 dBm	8.74 dBm	8.52 dBm	9.44 dBm

NII-3 (5.725 GHz~5.85GHz)	Antenna 1	Antenna 2	Antenna 3	Antenna 4
Mode M (OFDM)				
Power (ch 149 or A):	15.04 dBm	13.72 dBm	14.45 dBm	14.22 dBm
Power (ch 157 or B):	15.07 dBm	13.73 dBm	14.41 dBm	13.95 dBm
Power (ch 165 or C):	14.85 dBm	13.98 dBm	13.92 dBm	13.80 dBm
Mode N (OFDM)				
Power (ch 149 or A):	15.11 dBm	12.23 dBm	13.66 dBm	13.58 dBm
Power (ch 157 or B):	14.11 dBm	11.12 dBm	13.10 dBm	13.52 dBm
Power (ch 165 or C):	14.14 dBm	11.58 dBm	12.54 dBm	12.63 dBm
Mode O (OFDM)				
Power (ch 151 or A):	13.41 dBm	11.47 dBm	11.79 dBm	12.59 dBm
Power (ch 159 or B):	13.10 dBm	11.59 dBm	12.33 dBm	12.82 dBm
Mode P (OFDM)				
Power (ch 155 or A):	12.79 dBm	11.25 dBm	11.77 dBm	12.25 dBm



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5.15GHz~5.25GHz

Combine	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	61.06	50.1	60.17	17.86	17	17.79
802.11n 40MHz	50.86	--	51.73	17.06	--	17.14
802.11ac	39.78	--	--	16	--	--

5.25GHz~5.35GHz

Combine	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	35.94	29.02	22.3	15.56	14.63	13.48
802.11n 40MHz	23.2	--	29.69	13.65	--	14.73
802.11ac	30.76	--	--	14.88	--	--

5.47GHz~5.725GHz

Combine	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	29.69	34.45	19.53	14.73	15.37	12.91
802.11n 40MHz	33.43	37.74	25.99	15.24	15.77	14.15
802.11ac	35.21	--	--	15.47	--	--

5.725GHz~5.85GHz

Combine	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	95.17	81.61	76.6	19.79	19.12	18.84
802.11n 40MHz	69.22	--	71.08	18.4	--	18.52
802.11ac	64.17	--	--	18.07	--	--

1.6 Test standards

Technical standard : 47 CFR PART 15 SUBPART E § 15.407 (2020-10)

Report History

Report No.	Report Version	Description	Issue Date
W6R22002-19655-C-54	V01	Original Report	2020/05/05
W6R22002-19655-C-54-R2	V01.1	Change Max Output Power, Power Density data, the version of standard and reduced Tx power setting to comply with the output power and power spectral density requirements due to MIMO antenna gain calculations	2022/09/28
Note 1	1. This test report is based on the test report no. W6M21906-19115-C-54. 2. The differences are heat sink delete, filter change, version of standard and brand name. Except for Radiated Emission and Conducted Emission and Power test item were re-tested, the other test result is based on the original test report no. W6M21906-19115-C-54 without re-testing.		2019/10/23
Note 2	The test report (No.: W6R22002-19655-C-54-R2) is issued to replace the test report (No.: W6R22002-19655-C-54).		



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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: 3.3Vd.c.



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<i>Test item Name</i>	<i>Uncertainty</i>
<i>Estimation Result of Uncertainty of Conducted Emission (Power Line Conducted Emission)</i>	<i>Expanded Uncertainty : AMN : 1.03 dB Voltage probe : 1.05 dB</i>
<i>Estimation Result of Uncertainty of Radiated Emission(3M) (Undesirable emission limits, Radiated Emissions from Receiver Part)</i>	<i>Expanded Uncertainty : 0.009-30 MHz : 3.48 dB 30-1000 MHz : 4.48 dB 1-18 GHz : 4.15 dB 18-40 GHz : 3.78 dB</i>
<i>Estimation Result of Uncertainty of Bandwidth Measurement (26dB emission bandwidth, 99% Occupied Bandwidth, 6dB emission bandwidth, 99% Occupied Bandwidth)</i>	<i>Expanded Uncertainty : 0.45 kHz</i>
<i>Estimation Result of Uncertainty of Conducted Output Power Measurement (Peak Transmit Power)</i>	<i>Expanded Uncertainty : 3.07 dB</i>
<i>Estimation Result of Uncertainty of Power Density Measurement (Peak Power Spectral Density)</i>	<i>Expanded Uncertainty : 3.63 dB</i>
<i>Estimation Result of Uncertainty of EIRP Measurement (Equivalent Isotropic Radiated Power (EIRP), Radiated Emissions from Receiver Part)</i>	<i>Expanded Uncertainty : 30-200MHz : 3.55 dB 200-1000MHz : 3.37 dB 1-18GHz : 4.72 dB 18-40GHz : 3.83 dB</i>
<i>Estimation Result of Uncertainty of DFS Timing (Dynamic Frequency Selection (DFS), Channel Move Time, Channel Closing Transmission Time, UNII Detection Bandwidth, Statistical Performance Check)</i>	<i>Expanded Uncertainty : 0.6 ms</i>
<i>Estimation Result of Uncertainty of DFS Threshold (Dynamic Frequency Selection (DFS), Channel Move Time, Channel Closing Transmission Time, UNII Detection Bandwidth, Statistical Performance Check)</i>	<i>Expanded Uncertainty : 3.65 dB</i>

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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2.3 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	2022/6/22	2023/6/21
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	2021/11/9	2022/11/8
ETSTW-CE 006	IMPULSBEGRENZER PULSE LIMITER	ESH3-Z2	100226	R&S	2022/9/16	2023/9/15
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	2022/8/3	2023/8/2
ETSTW-CE 016	TWO-LINE V-NETWORK	ENV216	100050	R&S	2021/11/8	2022/11/7
ETSTW-CE 028	MXE EMI Receiver	N9038A	MY53220110	Agilent	2022/7/29	2023/7/28
ETSTW-RE 003	EMI TEST RECEIVER	ESI 26	831438/001	R&S	2022/6/21	2023/6/20
ETSTW-RE 004	EMI TEST RECEIVER	ESI 40	832427/004	R&S	2022/9/16	2023/9/15
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	2022/8/18	2023/8/17
ETSTW-RE 019	MICROWAVE HORN ANTENNA	22240-25	121074	FM	2022/6/13	2023/6/12
ETSTW-RE 027	Passive Loop Antenna	6512	00034563	ETS-Lindgren	2022/6/22	2023/6/21
ETSTW-RE 030	Double-Ridged Guide Horn Antenna	3117	00035224	ETS-Lindgren	2022/5/23	2023/5/22
ETSTW-RE 042	Biconical Antenna	HK116	100172	R&S	2022/3/4	2023/3/3
ETSTW-RE 043	Log-Periodic Dipole Antenna	HL223	100166	R&S	2022/6/28	2023/6/27
ETSTW-RE 044	Log-Periodic Antenna	HL050	100094	R&S	2022/8/1	2023/7/31
ETSTW-RE 045	ESA-E SERIES SPECTRUM ANALYZER	E4404B	MY45111242	Agilent	Pre-test Use	
ETSTW-RE 050	Attenuator 10dB	50HF-010-1	None	JFW	2022/2/18	2023/2/17
ETSTW-RE 051	Attenuator 6dB	50HF-006-1	None	JFW	2022/2/18	2023/2/17
ETSTW-RE 053	Attenuator 3dB	50HF-003-1	None	JFW	2022/2/18	2023/2/17
ETSTW-RE 055	SPECTRUM ANALYZER	FSU 26	200074	R&S	2022/3/28	2023/3/27
ETSTW-RE 060	Attenuator 30dB	5015-30	F651012z-01	ATM	2022/2/18	2023/2/17
ETSTW-RE 062	Amplifier Module	CHC 2	None	KMIC	2022/5/13	2023/5/12
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	2021/10/27	2022/10/26
ETSTW-RE 088	SOLID STATE AMPLIFIER	KMA180265A01	99057	KMIC	2022/9/16	2023/9/15
ETSTW-RE 091	Match Pad	MDCS1500	None	WOKEN	2022/6/9	2023/6/8
ETSTW-RE 099	DC Block	50DB-007-1	None	JFW	2022/2/18	2023/2/17
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	2022/1/5	2023/1/4
ETSTW-RE 120	RF Player	MP9200	MP9210-111022	ADIVIC	2021/10/29	2022/10/28
ETSTW-RE 122	SIGNAL GENERATOR	SMF100A	102149	R&S	2022/6/20	2023/6/19
ETSTW-RE 125	5GHz Notch filter	5NSL11-5200/E221.3-O/O	1	K&L Microwave	2022/8/3	2023/8/2
ETSTW-RE 126	5GHz Notch filter	5NSL12-5800/E221.3-O/O	1	K&L Microwave	2022/8/3	2023/8/2
ETSTW-RE 127	RF Switch Box	RFS-01	None	WTS	2022/2/18	2023/2/17
ETSTW-RE 128	5.3GHz Notch filter	N0153001	SN487233	Microwave Circuits	2022/8/3	2023/8/2
ETSTW-RE 129	5.5GHz Notch filter	N0555984	SN487234	Microwave Circuits	2022/8/3	2023/8/2
ETSTW-RE 130	Handheld RF Spectrum Analyzer	N9340A	CN0147000204	Agilent	Pre-test Use	
ETSTW-RE 142	Amplifier	8447D	2805A03378	Agilent	2022/5/13	2023/5/12
ETSTW-RE 146	Preamplifier	JPA-10M1G	15090004	JPT	2022/5/27	2023/5/26
ETSTW-RE 152	Bi-log Hybrid Antenna	MCTD 2786B	BLB20J04029	ETC	2021/10/5	2022/10/4
ETSTW-RE 153	Signal Analyzer	FSV40	101929	R&S	2022/9/16	2023/9/15
ETSTW-RE 159	Bi-log Hybrid Antenna (30M~1000 MHz)	MCTD 2786B	BLB21N04035	ETC	2021/12/06	2022/12/05
ETSTW-RF 002	Electromagnetic field probe	LF-30	K-0007	STT	2022/7/14	2023/7/13
ETSTW-EMI 011	USB Compact Modulator	SFC-U	101689	R&S	2022/6/10	2023/6/9
ETSTW-GSM 002	Universal Radio Communication Tester	CMU 200	109439	R&S	2022/3/28	2023/3/27
ETSTW-GSM 003	Radio Communication Analyzer	MT8820C	6201342073	Anritsu	2022/5/9	2023/5/8
ETSTW-GSM 004	Wideband Radio Communication Tester	CMW500	128092	R&S	2021/10/29	2022/10/28
ETSTW-GSM 019	Band Reject Filter	WRCTF824/849-822/851-40/12+9SS	3	WI	2022/1/5	2023/1/4
ETSTW-GSM 020	Band Reject Filter	WRCD1747/1748-1743/1752-32/5SS	1	WI	2022/1/5	2023/1/4
ETSTW-GSM 021	Band Reject Filter	WRCD1879.5/1880.5-1875.5/1884.5-32/5SS	3	WI	2022/1/5	2023/1/4
ETSTW-GSM 022	Band Reject Filter	WRCT901.9/903.1-904.25-50/8SS	1	WI	2022/1/5	2023/1/4
ETSTW-GSM 023	Power Divider	4901.19.A	None	SUHNER	2022/9/2	2023/9/1
ETSTW-GSM 024	Radio Communication Analyzer	MT8821C	None	Anritsu	2022/5/3	2023/5/2
ETSTW-GSM 025	Band Reject Filter	BRM19835	001	Micro-Tronics	2022/8/3	2023/8/2
ETSTW-Cable 011	SMA to N type Cable	RGU-400	None	THERMAX	Pre-test Use NCR	
ETSTW-Cable 016	BNC Cable	Switch Box	B Cable 1	Schwarz beck	2022/2/18	2023/2/17
ETSTW-Cable 017	BNC Cable	X Cable	B Cable 2	Schwarz beck	2022/2/18	2023/2/17
ETSTW-Cable 018	BNC Cable	Y Cable	B Cable 3	Schwarz beck	2022/2/18	2023/2/17
ETSTW-Cable 019	BNC Cable	Z Cable	B Cable 4	Schwarz beck	2022/2/18	2023/2/17
ETSTW-Cable 020	N TYPE Cable	OATS Cable 1	N30N30-L335-15M	JYE BAO CO.,LTD.	2022/6/15	2023/6/14
ETSTW-Cable 027	Microwave Cable	SUCOFLEX 104	279083	HUBER+SUHNER	2022/5/6	2023/5/5
ETSTW-Cable 028	Microwave Cable	FA147A0015M2020	30064-2	UTIFLEX	2022/9/16	2023/9/15
ETSTW-Cable 029	Microwave Cable	FA147A0015M2020	30064-3	UTIFLEX	2022/9/16	2023/9/15
ETSTW-Cable 030	Microwave Cable	SUCOFLEX 104 (S Cable 9)	279067	HUBER+SUHNER	2022/2/18	2023/2/17



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ETSTW-Cable 043	Microwave Cable	SUCOFLEX 104	317576	HUBER+SUHNER	2022/5/13	2023/5/12
ETSTW-Cable 047	Microwave Cable	SUCOFLEX 104	325518	HUBER+SUHNER	2022/7/1	2023/6/30
ETSTW-Cable 058	Microwave Cable	SUCOFLEX 104	none	HUBER+SUHNER	2022/5/27	2023/5/26
ETSTW-Cable 064	Microwave Cable	SUCOFLEX 104	MY28891	HUBER+SUHNER	2022/5/13	2023/5/12
ETSTW-Cable 071	N TYPE CABLE	EMCCFD400-NM-NM-25000	170239	EMCI	2022/5/27	2023/5/26
ETSTW-Cable 072	SMA type cable (8m)	SUCOFLEX 104	805800/4	HUBER+SUHNER	2022/5/13	2023/5/12
ETSTW-Cable 074	SMA type cable (2m)	SUCOFLEX 104	802563/4	HUBER+SUHNER	2022/5/13	2023/5/12
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	2022/9/16	2023/9/15
ETSTW-TH 003	Wireless weather station	GAIA	N/A	TFA	2021/10/18	2022/10/17



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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 H3)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 $\geq$ 3 MHz.
- (iv) Number of points in sweep $\geq$ 2 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 $\geq$ 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



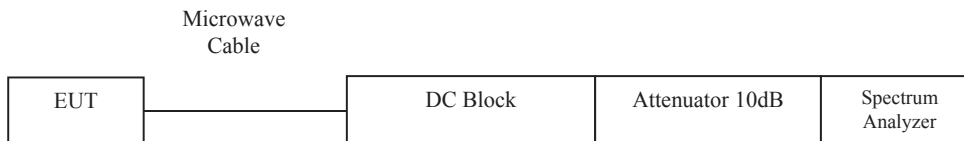
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measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of a RBWs less than 1 MHz, or 500 kHz, “provided that the measured power is integrated over the full reference bandwidth” to show the total power over the specified measurement bandwidth (i.e., 1 MHz, or 500 kHz). If measurements are performed using a reduced resolution bandwidth (< 1 MHz, or < 500 kHz) and integrated over 1 MHz, or 500 KHz bandwidth, the following adjustments to the procedures apply:

- a) Set $RBW \geq 1/T$, where T is defined in section II.B.1.a).
- b) Set $VBW \geq 3$ RBW.
- c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add $10\log(500\text{kHz}/RBW)$ to the measured result, whereas $RBW (< 500 \text{ kHz})$ is the reduced resolution bandwidth of the spectrum analyzer set during measurement.
- d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add $10\log(1\text{MHz}/RBW)$ to the measured result, whereas $RBW (< 1 \text{ MHz})$ is the reduced resolution bandwidth of spectrum analyzer set during measurement.
- e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

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

Conducted measurement test setup



■ Procedure for Unwanted Emissions Measurements below 1000 MHz

1. Compliance shall be demonstrated using CISPR quasi-peak detection; however, peak detection is permitted as an alternative to quasi-peak detection.

■ Procedure for Unwanted Maximum Emissions Measurements above 1000 MHz

1. Maximum emission levels are measured by setting the analyzer as follows:
 - (i) $RBW = 1 \text{ MHz}$.
 - (ii) $VBW \geq 3 \text{ MHz}$.
 - (iii) Detector = Peak.
 - (iv) Sweep time = auto.
 - (v) Trace mode = max hold.
 - (vi) Allow sweeps to continue until the trace stabilizes. Note that if the transmission is not continuous, the time required for the trace to stabilize will increase by a factor of approximately $1/x$, where x is the duty cycle. For example, at 50% duty cycle, the measurement time will increase by a factor of two relative to measurement time for continuous transmission.



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■ Procedures for Average Unwanted Emissions Measurements above 1000 MHz

Averaging using reduced video bandwidth

(i) RBW = 1 MHz.

(ii) Video bandwidth.

- If the EUT is configured to transmit with duty cycle $\geq 98\%$, set VBW $\leq$ RBW/100 (i.e., 10 kHz) but not less than 10 Hz.
- If the EUT duty cycle is $< 98\%$, set VBW $\geq 1/T$

(iii) Video bandwidth mode or display mode

- The instrument shall be set to ensure that video filtering is applied in the power domain. Typically, this requires setting the detector mode to rms and setting the Average-VBW Type to power averaging (rms).
- As an alternative, the analyzer may be set to linear detector mode.
Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain).
Some analyzers require linear display mode in order to accomplish this.
Others have a setting for Average-VBW Type, which can be set to “Voltage” regardless of the display mode.

(iv) Detector = Peak.

(v) Sweep time = auto.

(vi) Trace mode = max hold.

(vii) Allow max hold to run for at least 50 traces if the transmitted signal is continuous or has at least 98% duty cycle. For lower duty cycles, increase the minimum number of traces by a factor of $1/x$, where x is the duty cycle. For example, use at least 200 traces if the duty cycle is 25%.
(If a specific emission is demonstrated to be continuous—i.e., 100% duty cycle—rather than turning on and off with the transmit cycle, at least 50 traces shall be averaged.)



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3 Test results (enclosure)

Test case	Para. Number	Required	Test passed	Test failed
Peak Transmit Power	15.407(a)	☒	☒	☐
6-dB emission bandwidth	15.407(a)	☒	☒	☐
26-dB emission bandwidth	15.407(a)	☒	☒	☐
99 % Occupied Bandwidth	789033 D02 General U-NII Test Procedures New Rules v02r01	☒	☒	☐
Peak Power Spectral Density	15.407(a)	☒	☒	☐
Undesirable emission limits	15.407(b)	☒	☒	☐
Radio Frequency Exposure	15.407(f)	☒	☒	☐
Transmit Power Control	15.407(h)	☐	☐	☐
Dynamic Frequency Selection (DFS)	15.407(h)	☒	☒	☐
Channel Move Time, Channel Closing Transmission Time	15.407(i)	☒	☒	☐
Radiated Emission from Receiver Part	15.109	☐	☐	☐
AC Conducted Emissions	15.207	☒	☒	☐

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 ($B = 26\text{-dB emission BW}$).
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).
4. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
5. According KDB662911 D01 d) i), transmit signals are completely correlated, then

$$\text{Directional gain} = 10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{\text{ANT}}] \text{ dBi}$$
 If all antennas have the same gain, G_{ANT} :

$$\text{Directional gain} = G_{\text{ANT}} + 10 \log(N_{\text{ANT}}/N_{\text{ss}}) \text{ dBi}$$
 Directional gain :

$$= 3 + 10 \log(4)$$

$$= 9.02 \text{ dBi}$$

6.

Band	Limit (dBm)	reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.	Limit (dBm) (consider directional gain)
5.15-5.25 GHz	24	3.02	20.98
5.25-5.35 GHz	24	3.02	20.98
5.47-5.725 GHz			
5.725-5.850 GHz	30	3.02	26.98

Test date: September 19, 2022

Temperature: 24.7 °C

Humidity: 53.1 %

Tester: Kent



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4*4 Antenna

5.15GHz~5.25GHz

Antenna 1	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	19.28	14.93	18.37	12.85	11.74	12.64
802.11n 40MHz	15.52	--	15.21	11.91	--	11.82
802.11ac	11.83	--	--	10.73	--	--
Antenna 2	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	15.03	11.99	13.12	11.77	10.79	11.18
802.11n 40MHz	14.83	--	14.62	11.71	--	11.65
802.11ac	10.4	--	--	10.17	--	--
Antenna 3	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	13.93	12.42	15.31	11.44	10.94	11.85
802.11n 40MHz	8.73	--	9.25	9.41	--	9.66
802.11ac	7.41	--	--	8.7	--	--
Antenna 4	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	12.82	10.76	13.37	11.08	10.32	11.26
802.11n 40MHz	11.78	--	12.65	10.71	--	11.02
802.11ac	10.14	--	--	10.06	--	--
Combine	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	61.06	50.1	60.17	17.86	17	17.79
802.11n 40MHz	50.86	--	51.73	17.06	--	17.14
802.11ac	39.78	--	--	16	--	--



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5.25GHz~5.35GHz

Antenna 1	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	11.22	9.31	7.21	10.5	9.69	8.58
802.11n 40MHz	6.79	--	8.75	8.32	--	9.42
802.11ac	9.33	--	--	9.7	--	--
Antenna 2	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	7.28	5.43	3.59	8.62	7.35	5.55
802.11n 40MHz	5.41	--	7.98	7.33	--	9.02
802.11ac	7.83	--	--	8.94	--	--
Antenna 3	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	9.12	7.76	6.08	9.6	8.9	7.84
802.11n 40MHz	4.38	--	5.73	6.41	--	7.58
802.11ac	6.03	--	--	7.8	--	--
Antenna 4	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	8.32	6.52	5.42	9.2	8.14	7.34
802.11n 40MHz	6.62	--	7.23	8.21	--	8.59
802.11ac	7.57	--	--	8.79	--	--
Combine	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	35.94	29.02	22.3	15.56	14.63	13.48
802.11n 40MHz	23.2	--	29.69	13.65	--	14.73
802.11ac	30.76	--	--	14.88	--	--



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5.47GHz~5.725GHz

Antenna 1	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	10.42	12.22	6.64	10.18	10.87	8.22
802.11n 40MHz	11.67	13.06	8.04	10.67	11.16	9.05
802.11ac	11.83	--	--	10.73	--	--
Antenna 2	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	4.32	5.28	3.56	6.35	7.23	5.51
802.11n 40MHz	7.06	7.96	5.58	8.49	9.01	7.47
802.11ac	7.48	--	--	8.74	--	--
Antenna 3	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	7.38	8.32	4.76	8.68	9.2	6.78
802.11n 40MHz	6.27	7.62	6.18	7.97	8.82	7.91
802.11ac	7.11	--	--	8.52	--	--
Antenna 4	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	7.57	8.63	4.57	8.79	9.36	6.6
802.11n 40MHz	8.43	9.1	6.19	9.26	9.59	7.92
802.11ac	8.79	--	--	9.44	--	--
Combine	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	29.69	34.45	19.53	14.73	15.37	12.91
802.11n 40MHz	33.43	37.74	25.99	15.24	15.77	14.15
802.11ac	35.21	--	--	15.47	--	--



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6R22002-19655-C-54-R2

FCC ID: W23-WMXWAVE2AS

5.725GHz~5.85GHz

Antenna 1	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	32.43	25.76	25.94	15.11	14.11	14.14
802.11n 40MHz	21.93	--	20.42	13.41	--	13.1
802.11ac	19.01	--	--	12.79	--	--
Antenna 2	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	16.71	12.94	14.39	12.23	11.12	11.58
802.11n 40MHz	14.03	--	14.42	11.47	--	11.59
802.11ac	13.34	--	--	11.25	--	--
Antenna 3	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	23.23	20.42	17.95	13.66	13.1	12.54
802.11n 40MHz	15.1	--	17.1	11.79	--	12.33
802.11ac	15.03	--	--	11.77	--	--
Antenna 4	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	22.8	22.49	18.32	13.58	13.52	12.63
802.11n 40MHz	18.16	--	19.14	12.59	--	12.82
802.11ac	16.79	--	--	12.25	--	--
Combine	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	95.17	81.61	76.6	19.79	19.12	18.84
802.11n 40MHz	69.22	--	71.08	18.4	--	18.52
802.11ac	64.17	--	--	18.07	--	--



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6R22002-19655-C-54-R2

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3*3 Antenna

5.15GHz~5.25GHz

Antenna 1	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	19.28	14.93	18.37	12.85	11.74	12.64
802.11n 40MHz	15.52	--	15.21	11.91	--	11.82
802.11ac	11.83	--	--	10.73	--	--
Antenna 2	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	15.03	11.99	13.12	11.77	10.79	11.18
802.11n 40MHz	14.83	--	14.62	11.71	--	11.65
802.11ac	10.4	--	--	10.17	--	--
Antenna 3	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	13.93	12.42	15.31	11.44	10.94	11.85
802.11n 40MHz	8.73	--	9.25	9.41	--	9.66
802.11ac	7.41	--	--	8.7	--	--
Combine	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	48.24	39.34	46.8	16.83	15.95	16.7
802.11n 40MHz	39.08	--	39.08	15.92	--	15.92
802.11ac	29.64	--	--	14.72	--	--



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6R22002-19655-C-54-R2

FCC ID: W23-WMXWAVE2AS

5.25GHz~5.35GHz

Antenna 1	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	11.22	9.31	7.21	10.5	9.69	8.58
802.11n 40MHz	6.79	--	8.75	8.32	--	9.42
802.11ac	9.33	--	--	9.7	--	--
Antenna 2	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	7.28	5.43	3.59	8.62	7.35	5.55
802.11n 40MHz	5.41	--	7.98	7.33	--	9.02
802.11ac	7.83	--	--	8.94	--	--
Antenna 3	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	9.12	7.76	6.08	9.6	8.9	7.84
802.11n 40MHz	4.38	--	5.73	6.41	--	7.58
802.11ac	6.03	--	--	7.8	--	--
Combine	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	27.62	22.5	16.88	14.41	13.52	12.27
802.11n 40MHz	16.58	--	22.46	12.2	--	13.51
802.11ac	23.19	--	--	13.65	--	--



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6R22002-19655-C-54-R2

FCC ID: W23-WMXWAVE2AS

5.47GHz~5.725GHz

Antenna 1	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	10.42	12.22	6.64	10.18	10.87	8.22
802.11n 40MHz	11.67	13.06	8.04	10.67	11.16	9.05
802.11ac	11.83	--	--	10.73	--	--
Antenna 2	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	4.32	5.28	3.56	6.35	7.23	5.51
802.11n 40MHz	7.06	7.96	5.58	8.49	9.01	7.47
802.11ac	7.48	--	--	8.74	--	--
Antenna 3	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	7.38	8.32	4.76	8.68	9.2	6.78
802.11n 40MHz	6.27	7.62	6.18	7.97	8.82	7.91
802.11ac	7.11	--	--	8.52	--	--
Combine	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	22.12	25.82	14.96	13.45	14.12	11.75
802.11n 40MHz	25	28.64	19.8	13.98	14.57	12.97
802.11ac	26.42	--	--	14.22	--	--



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6R22002-19655-C-54-R2

FCC ID: W23-WMXWAVE2AS

5.725GHz~5.85GHz

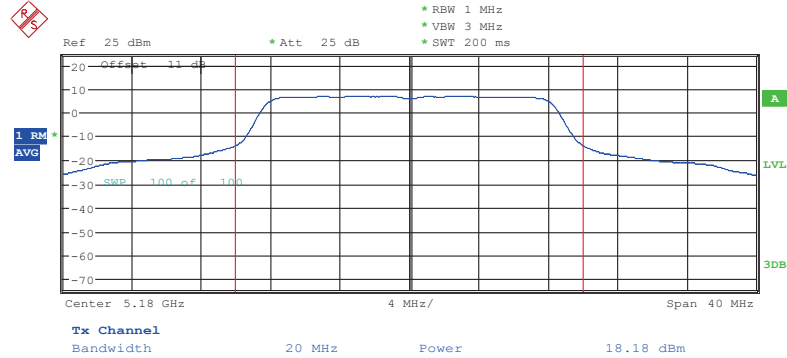
Antenna 1	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	32.43	25.76	25.94	15.11	14.11	14.14
802.11n 40MHz	21.93	--	20.42	13.41	--	13.1
802.11ac	19.01	--	--	12.79	--	--
Antenna 2	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	16.71	12.94	14.39	12.23	11.12	11.58
802.11n 40MHz	14.03	--	14.42	11.47	--	11.59
802.11ac	13.34	--	--	11.25	--	--
Antenna 3	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	23.23	20.42	17.95	13.66	13.1	12.54
802.11n 40MHz	15.1	--	17.1	11.79	--	12.33
802.11ac	15.03	--	--	11.77	--	--
Combine	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	72.37	59.12	58.28	18.6	17.72	17.66
802.11n 40MHz	51.06	--	51.94	17.08	--	17.16
802.11ac	47.38	--	--	16.76	--	--



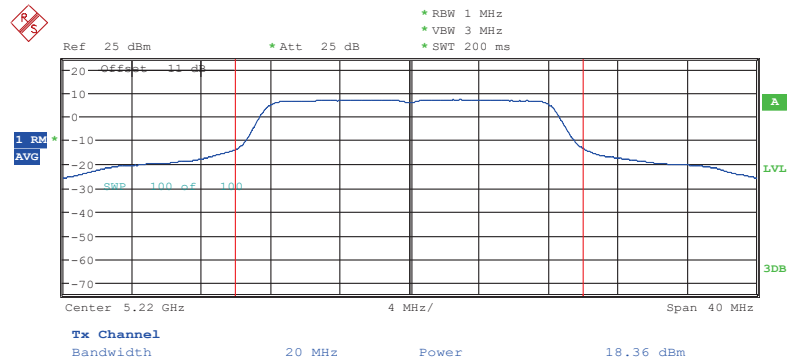
Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS

ANT1

5.15 GHz ~ 5.25 GHz



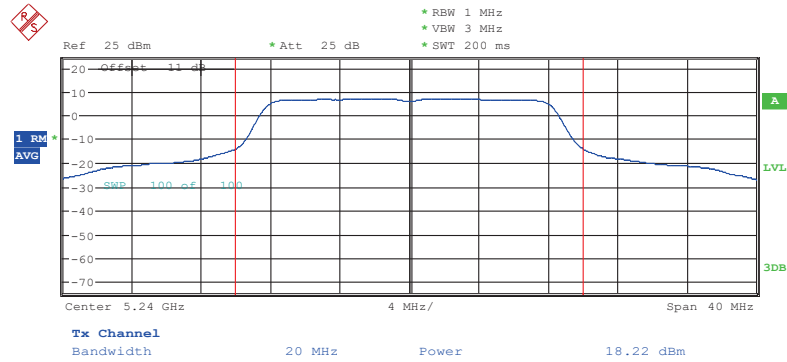
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Date: 19.SEP.2022 14:48:38



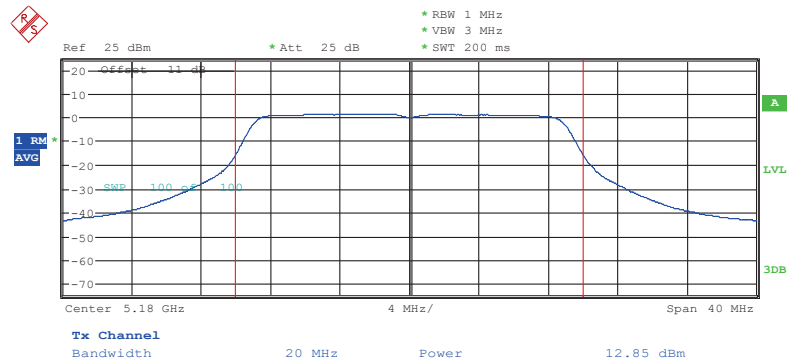
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Date: 19.SEP.2022 14:55:18



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



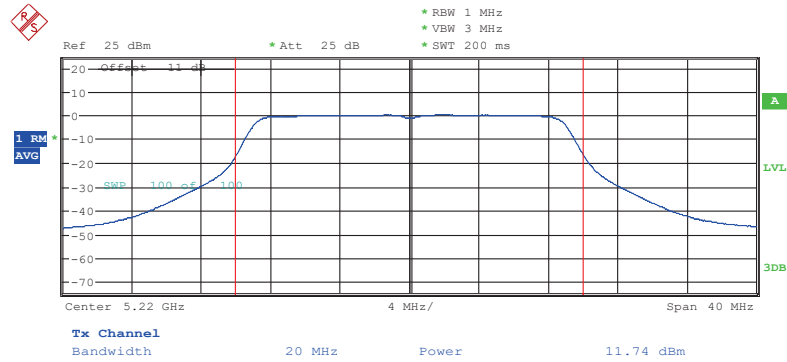
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Date: 19.SEP.2022 15:04:08



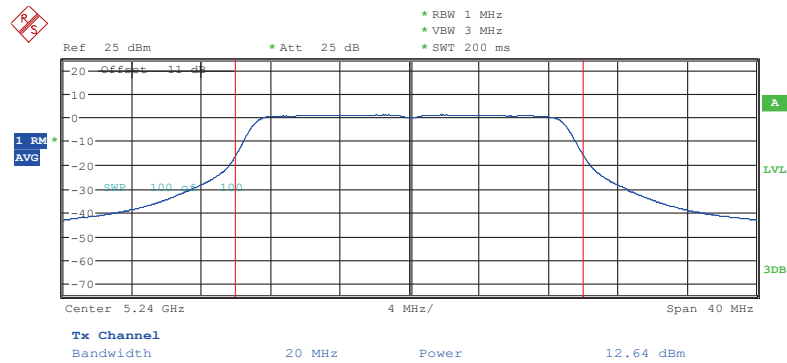
MAXIMUM CONDUCTED POWER ANT1_11n20CH36
Date: 19.SEP.2022 15:12:08



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



MAXIMUM CONDUCTED POWER ANT1_11n20CH44
Date: 19.SEP.2022 15:18:37

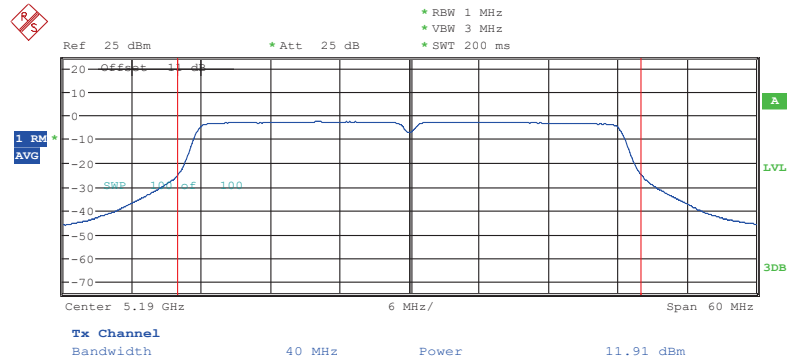


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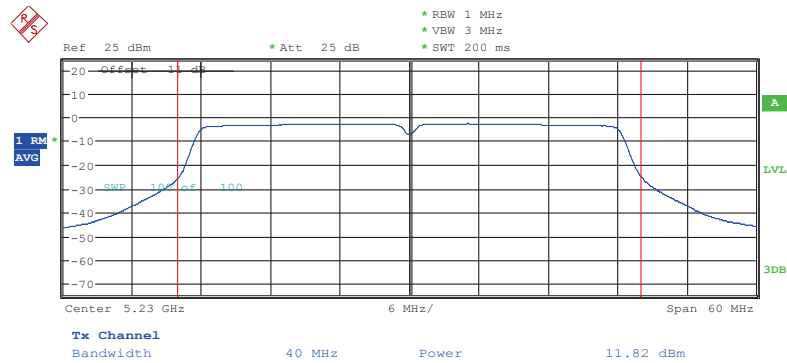


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



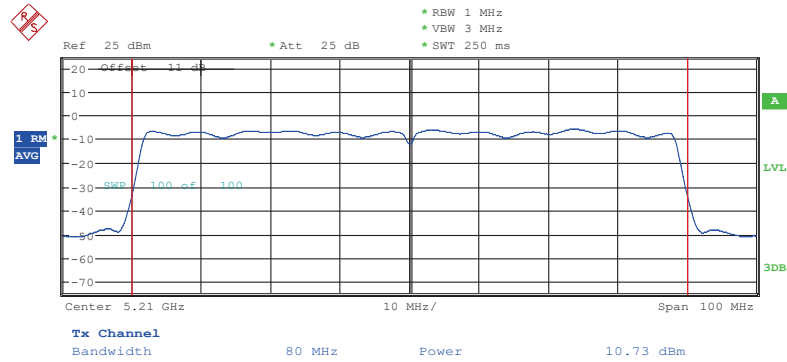
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Date: 19.SEP.2022 15:32:48



MAXIMUM CONDUCTED POWER ANT1_11n40CH46
Date: 19.SEP.2022 15:37:48

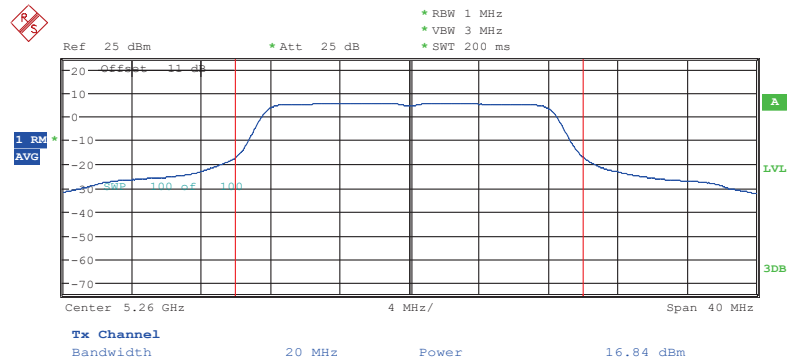


Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



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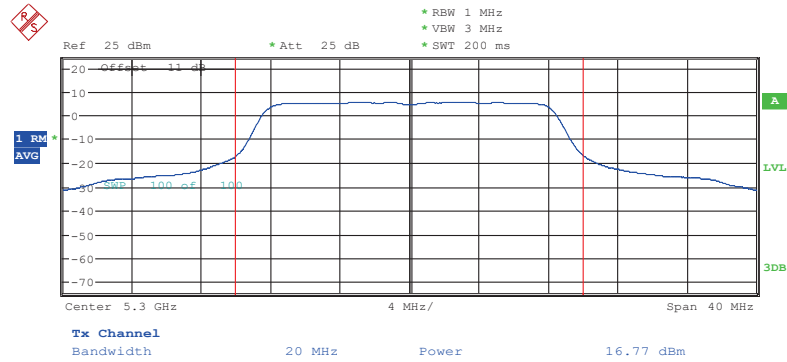
5.25 GHz ~ 5.35 GHz



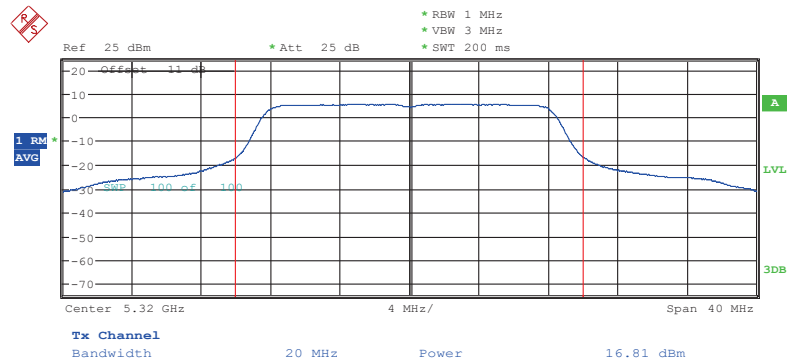
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Date: 19.SEP.2022 15:54:28



Registration number: W6R22002-19655-C-54-R2
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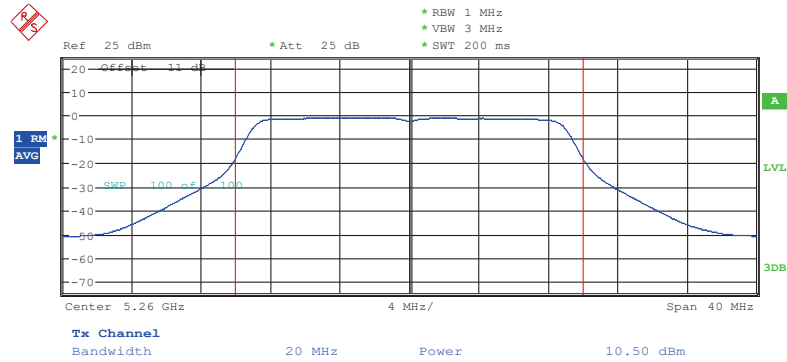
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Date: 19.SEP.2022 16:02:09



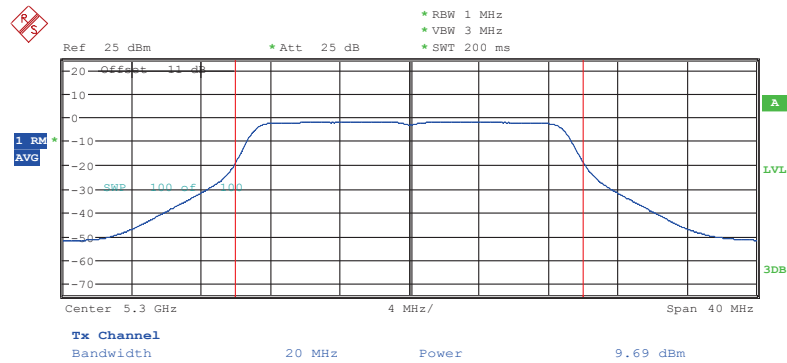
MAXIMUM CONDUCTED POWER ANT1_11aCH64
Date: 19.SEP.2022 16:08:19



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



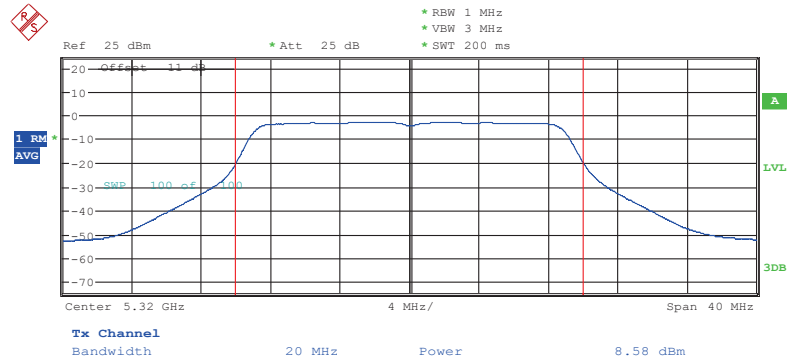
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Date: 19.SEP.2022 16:15:09



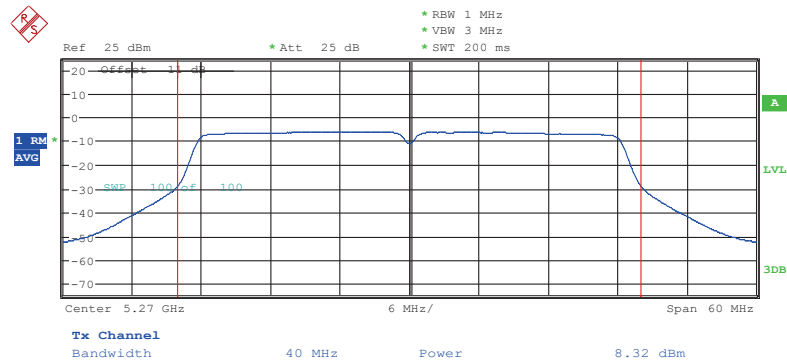
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Date: 19.SEP.2022 16:19:49



Registration number: W6R22002-19655-C-54-R2
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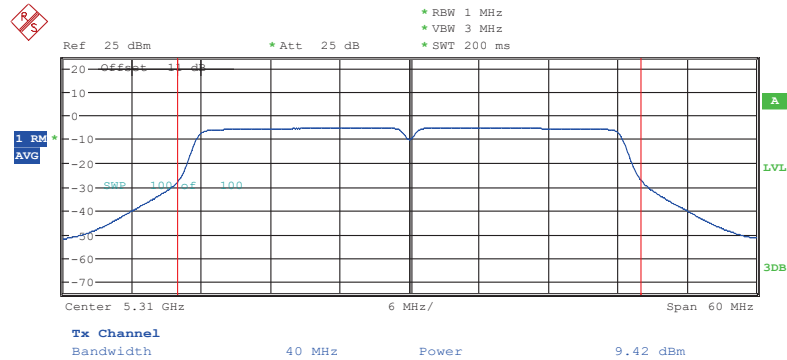
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Date: 19.SEP.2022 16:48:49



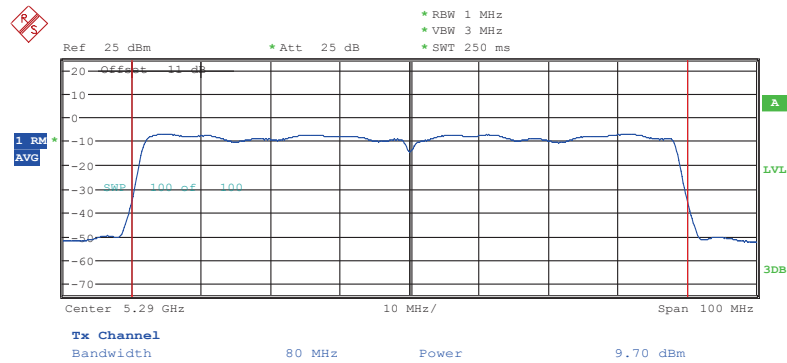
MAXIMUM CONDUCTED POWER ANT1_11n40CH54
Date: 19.SEP.2022 17:00:49



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



MAXIMUM CONDUCTED POWER ANT1_11n40CH62
Date: 19.SEP.2022 17:07:39



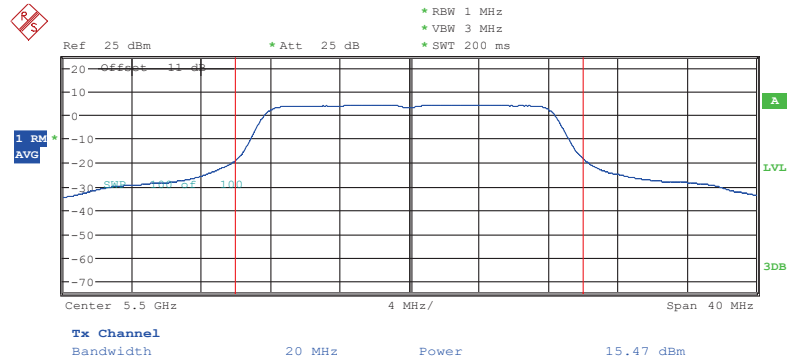
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Date: 19.SEP.2022 17:13:29



Registration number: W6R22002-19655-C-54-R2

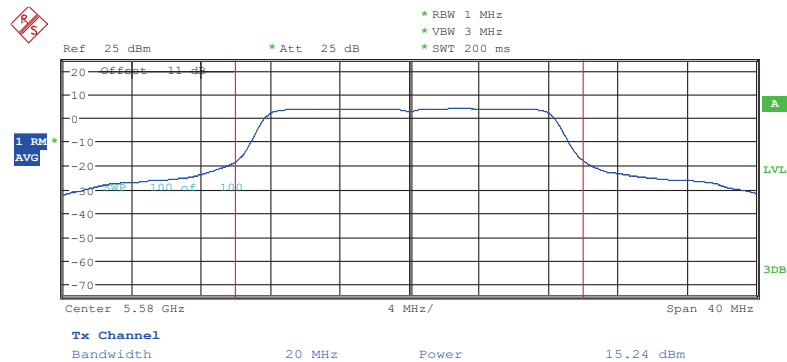
FCC ID: W23-WMXWAVE2AS

5.47 GHz ~ 5.725 GHz



MAXIMUM CONDUCTED POWER ANT1_11aCH100

Date: 19.SEP.2022 17:26:49

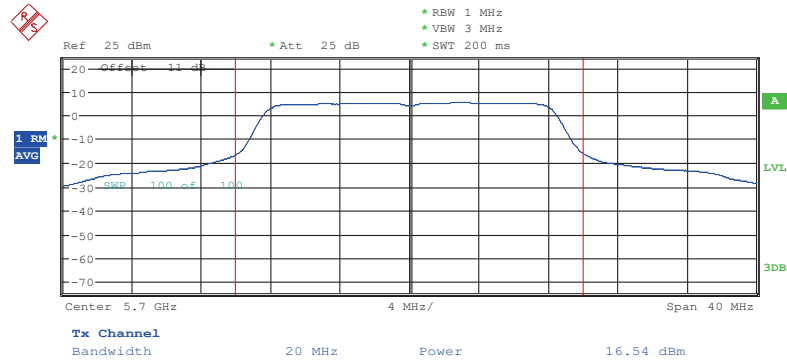


MAXIMUM CONDUCTED POWER ANT1_11aCH116

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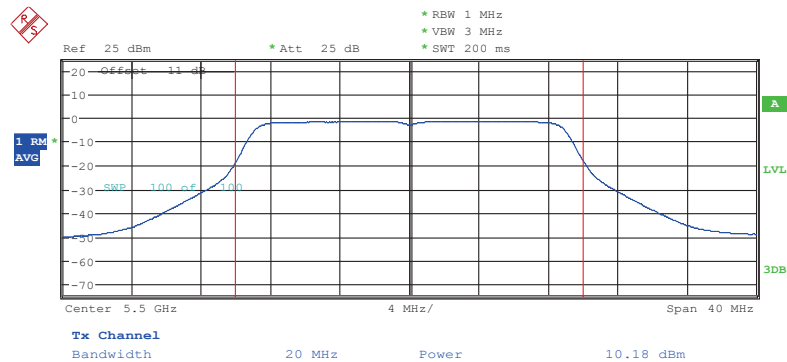


Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



MAXIMUM CONDUCTED POWER ANT1_11aCH140

Date: 19.SEP.2022 17:55:19

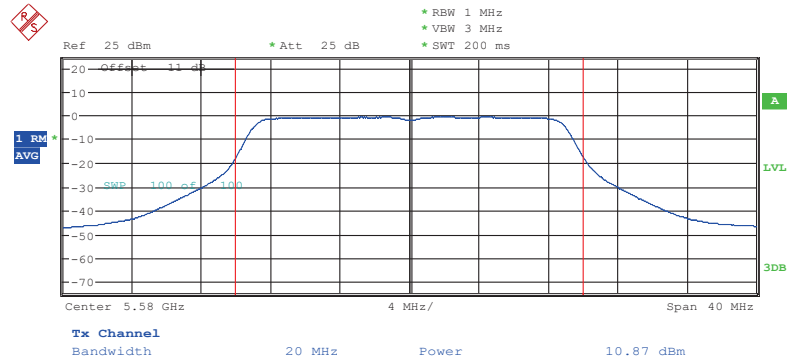


MAXIMUM CONDUCTED POWER ANT1_11n20CH100

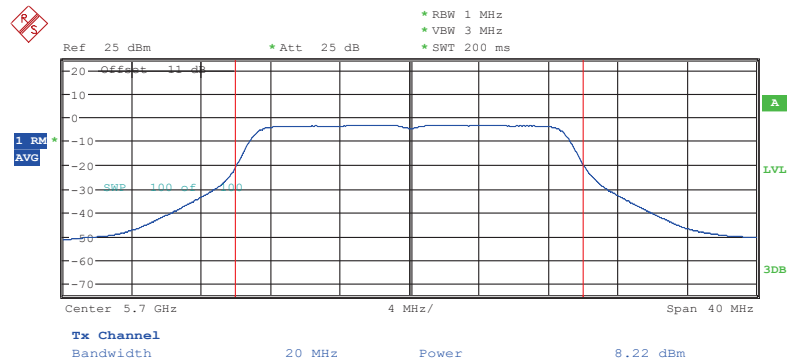
Date: 19.SEP.2022 18:39:49



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



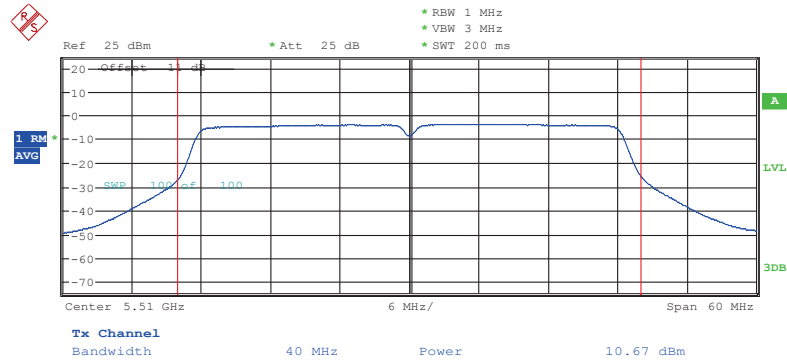
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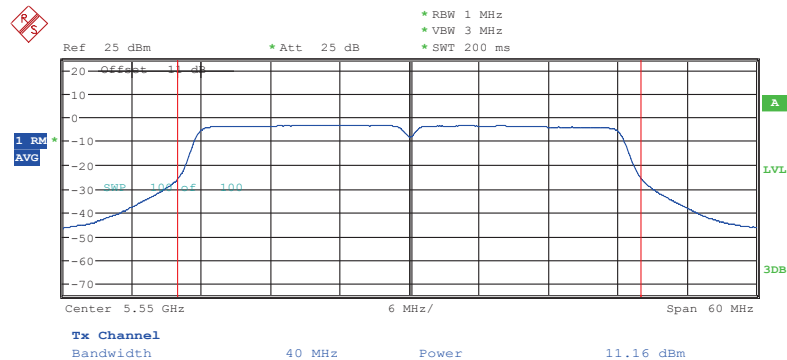
MAXIMUM CONDUCTED POWER ANT1_11n20CH140
Date: 19.SEP.2022 18:55:39



Registration number: W6R22002-19655-C-54-R2
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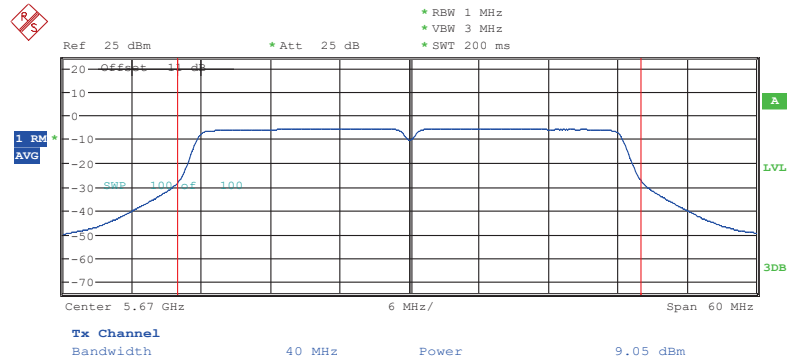
MAXIMUM CONDUCTED POWER ANT1_11n40CH102
Date: 19.SEP.2022 20:29:29



MAXIMUM CONDUCTED POWER ANT1_11n40CH110
Date: 19.SEP.2022 20:35:09

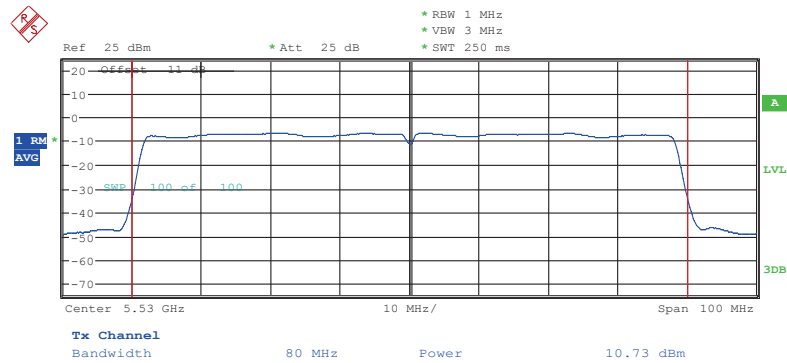


Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



MAXIMUM CONDUCTED POWER ANT1_11n40CH134

Date: 19.SEP.2022 20:40:09



MAXIMUM CONDUCTED POWER ANT1_11ac80CH106

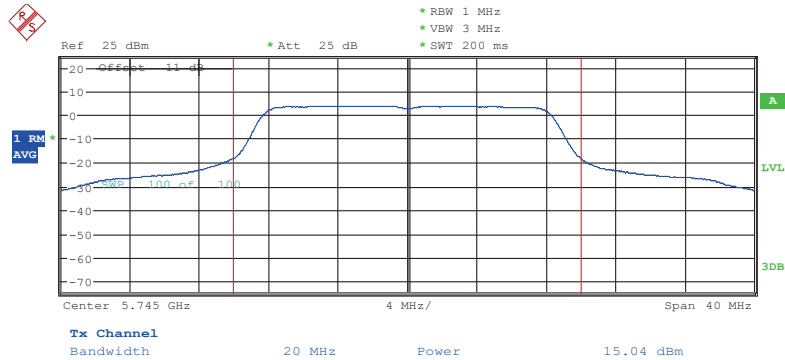
Date: 19.SEP.2022 20:47:28



Registration number: W6R22002-19655-C-54-R2

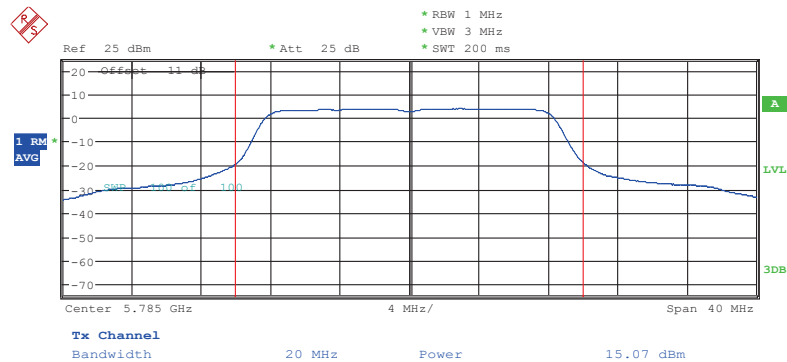
FCC ID: W23-WMXWAVE2AS

5.725 GHz ~ 5.85 GHz



MAXIMUM CONDUCTED POWER ANT1_11aCH149

Date: 19.SEP.2022 20:57:39

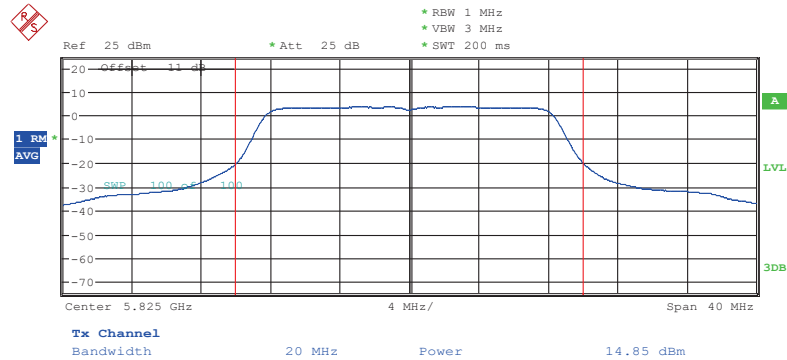


MAXIMUM CONDUCTED POWER ANT1_11aCH157

Date: 19.SEP.2022 21:04:09

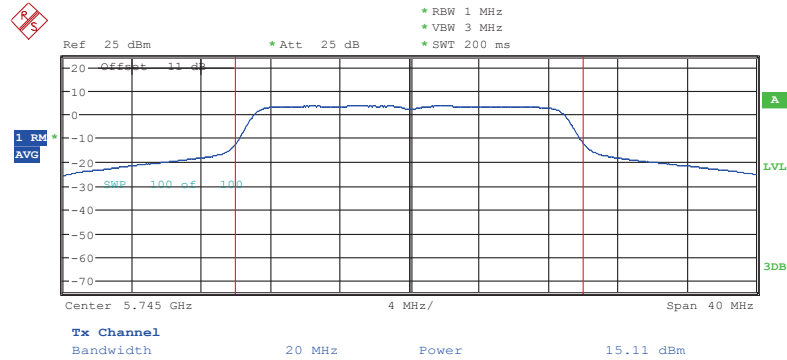


Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



MAXIMUM CONDUCTED POWER ANT1_11aCH165

Date: 19.SEP.2022 21:09:19

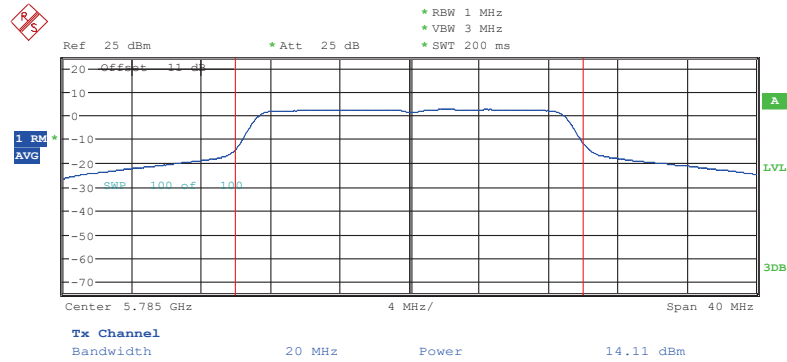


MAXIMUM CONDUCTED POWER ANT1_11n20CH149

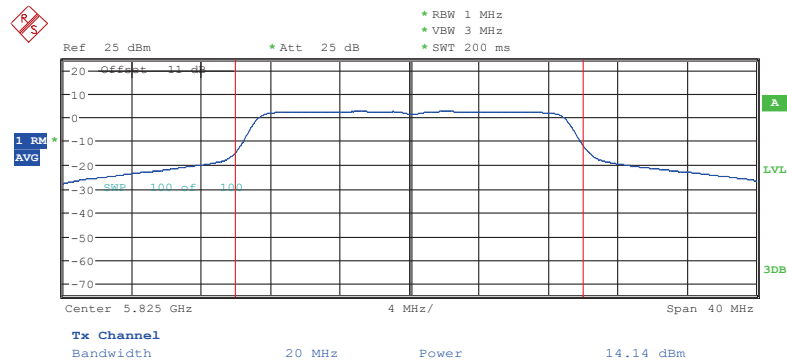
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Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



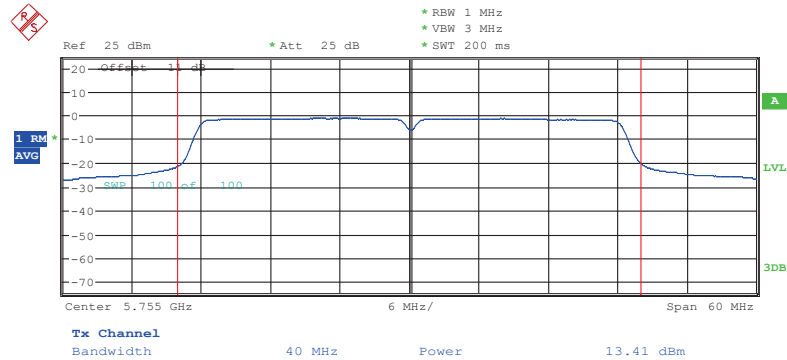
MAXIMUM CONDUCTED POWER ANT1_11n20CH157
Date: 19.SEP.2022 21:23:09



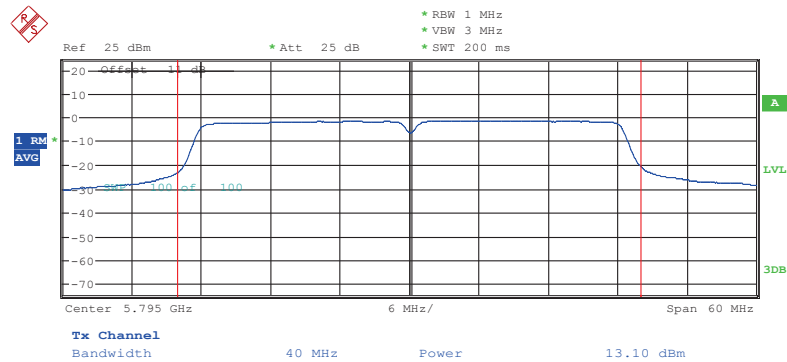
MAXIMUM CONDUCTED POWER ANT1_11n20CH165
Date: 19.SEP.2022 21:28:39



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



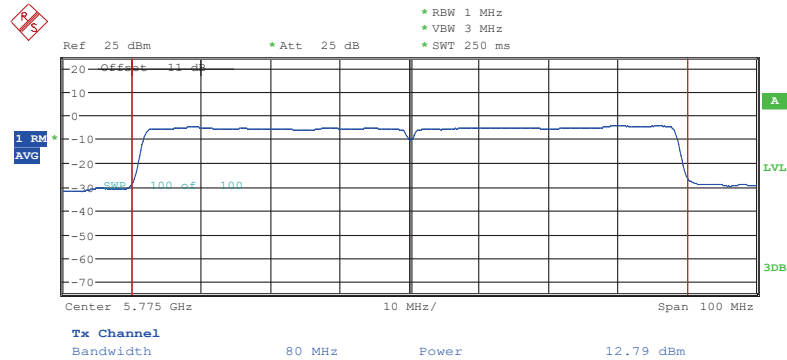
MAXIMUM CONDUCTED POWER ANT1_11n40CH151
Date: 19.SEP.2022 21:36:19



MAXIMUM CONDUCTED POWER ANT1_11n40CH159
Date: 19.SEP.2022 21:43:19

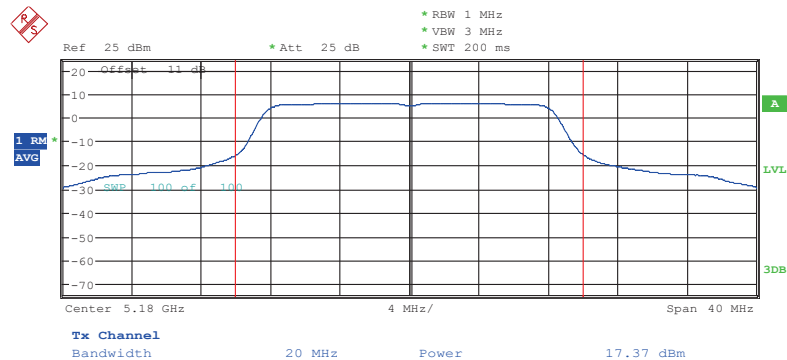


Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



MAXIMUM CONDUCTED POWER ANT1_11ac80CH155
Date: 19.SEP.2022 21:50:01

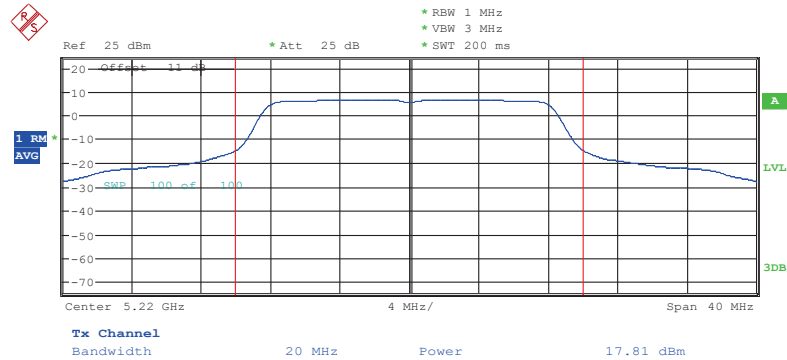
ANT2 5.15 GHz ~ 5.25 GHz



MAXIMUM CONDUCTED POWER ANT2_11acCH36
Date: 19.SEP.2022 14:50:31

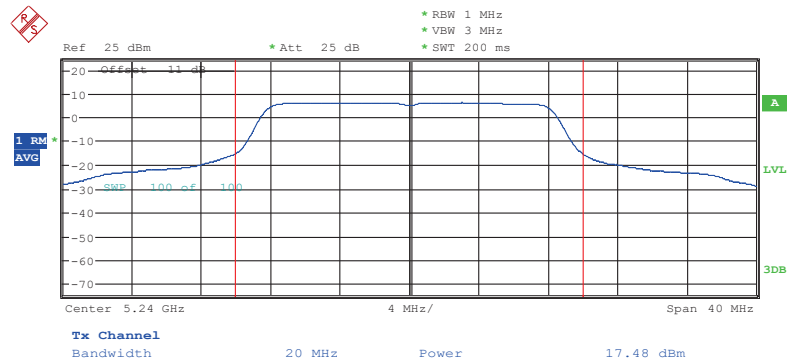


Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



MAXIMUM CONDUCTED POWER ANT2_11aCH44

Date: 19.SEP.2022 14:58:42

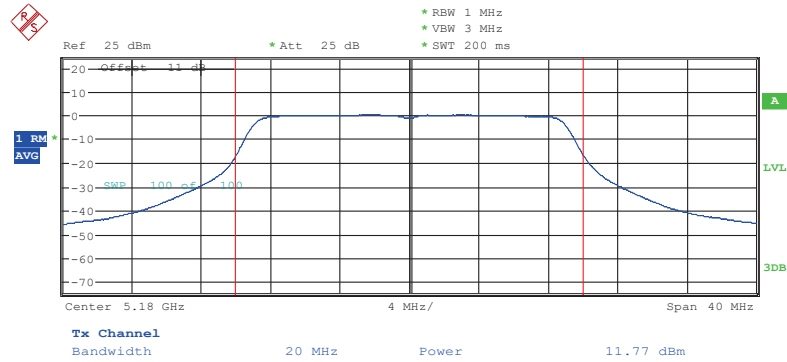


MAXIMUM CONDUCTED POWER ANT2_11aCH48

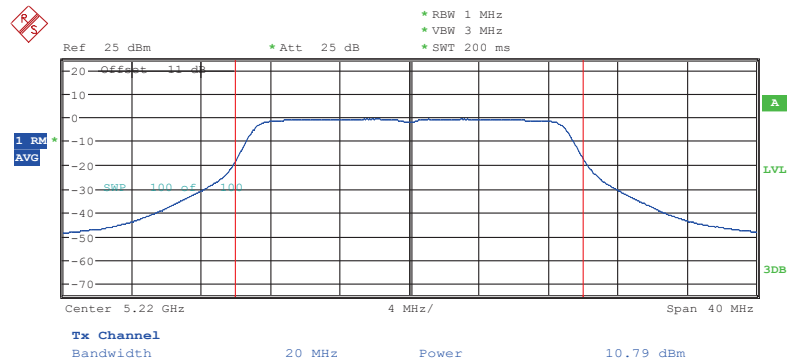
Date: 19.SEP.2022 15:05:18



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



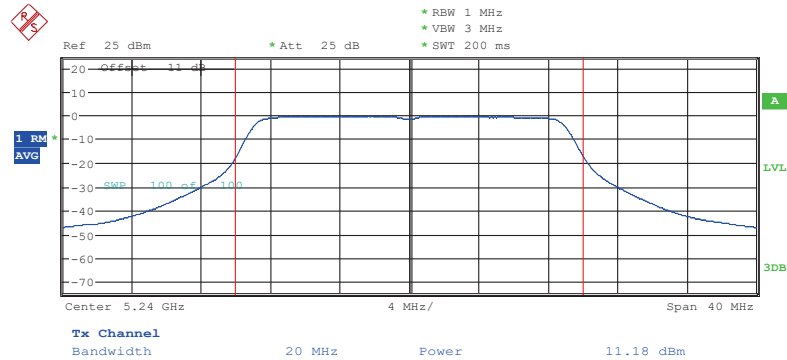
MAXIMUM CONDUCTED POWER ANT2_11n20CH36
Date: 19.SEP.2022 15:13:18



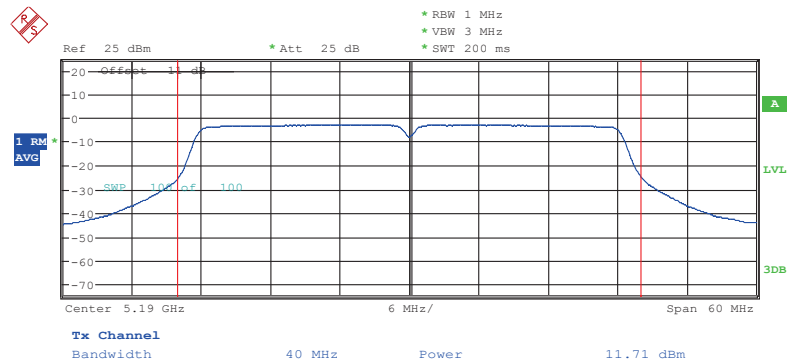
MAXIMUM CONDUCTED POWER ANT2_11n20CH44
Date: 19.SEP.2022 15:19:38



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



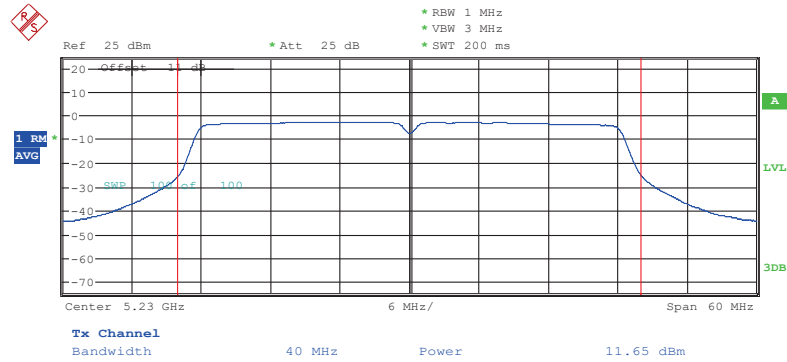
MAXIMUM CONDUCTED POWER ANT2_11n20CH48
Date: 19.SEP.2022 15:24:53



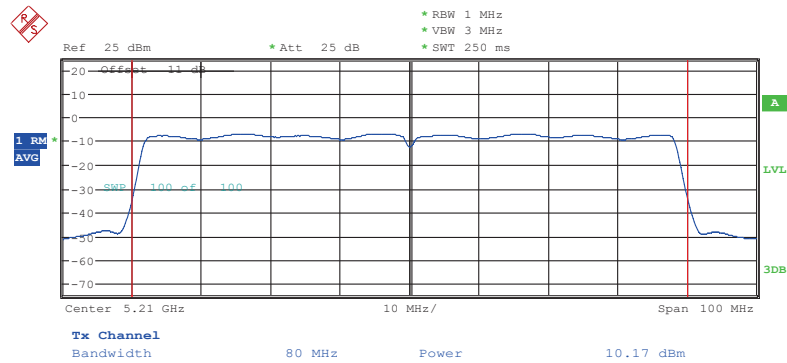
MAXIMUM CONDUCTED POWER ANT2_11n40CH38
Date: 19.SEP.2022 15:33:58



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



MAXIMUM CONDUCTED POWER ANT2_11n40CH46
Date: 19.SEP.2022 15:38:58



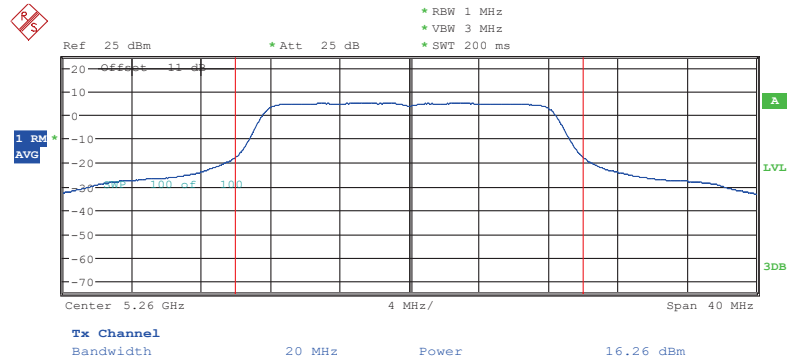
MAXIMUM CONDUCTED POWER ANT2_11ac80CH42
Date: 19.SEP.2022 15:44:18



Registration number: W6R22002-19655-C-54-R2

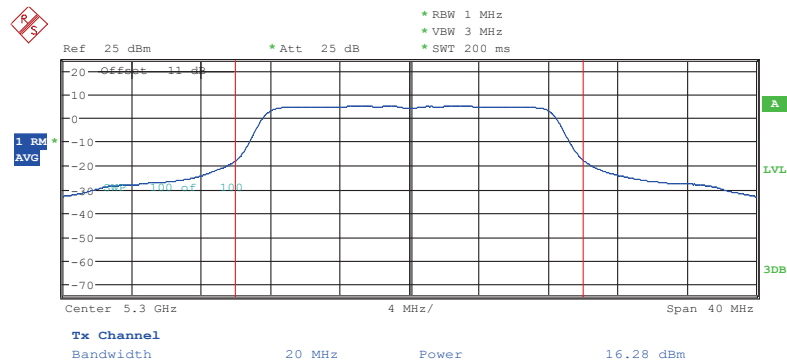
FCC ID: W23-WMXWAVE2AS

5.25 GHz ~ 5.35 GHz



MAXIMUM CONDUCTED POWER ANT2_11aCH52

Date: 19.SEP.2022 15:56:08



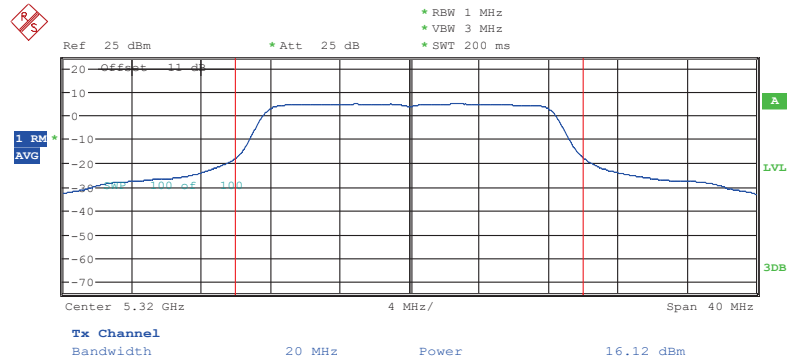
MAXIMUM CONDUCTED POWER ANT2_11aCH60

Date: 19.SEP.2022 16:03:18

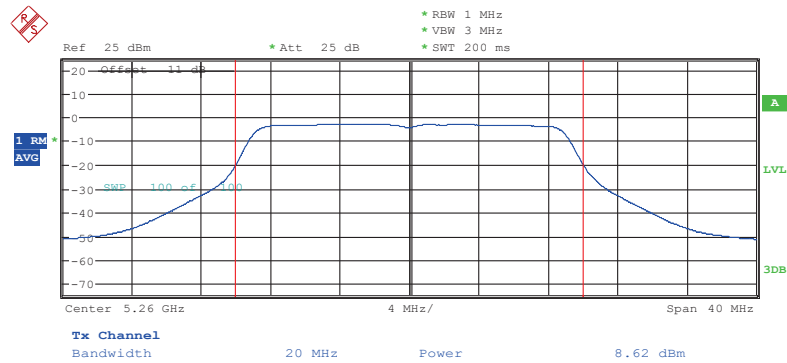


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



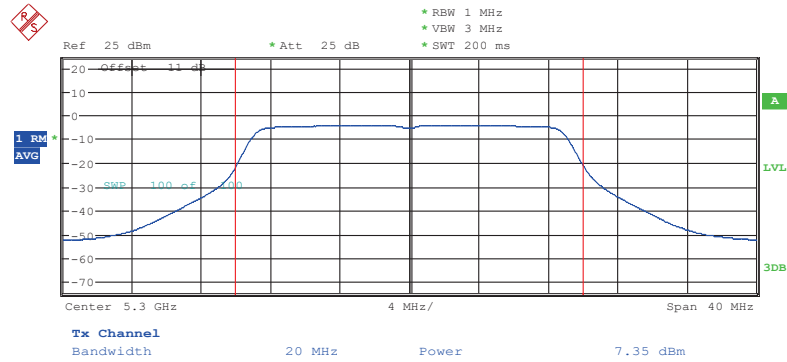
MAXIMUM CONDUCTED POWER ANT2_11aCH64
Date: 19.SEP.2022 16:09:29



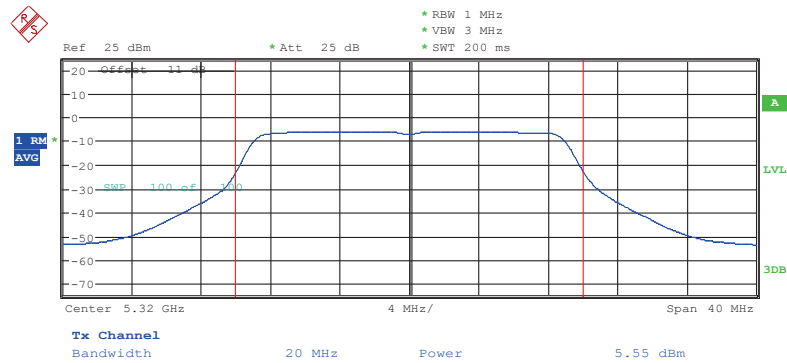
MAXIMUM CONDUCTED POWER ANT2_11n20CH52
Date: 19.SEP.2022 16:16:09



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



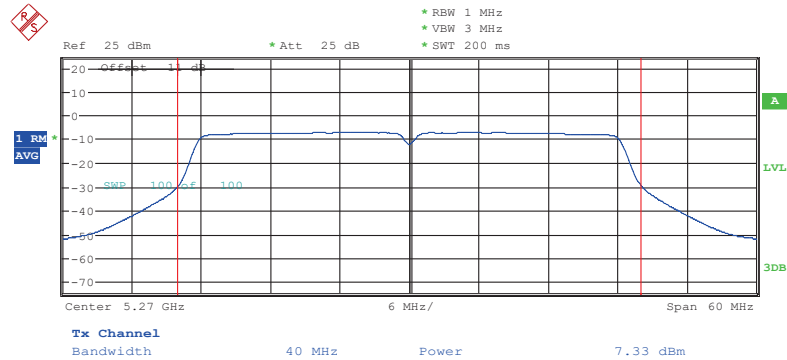
MAXIMUM CONDUCTED POWER ANT2_11n20CH60
Date: 19.SEP.2022 16:20:49



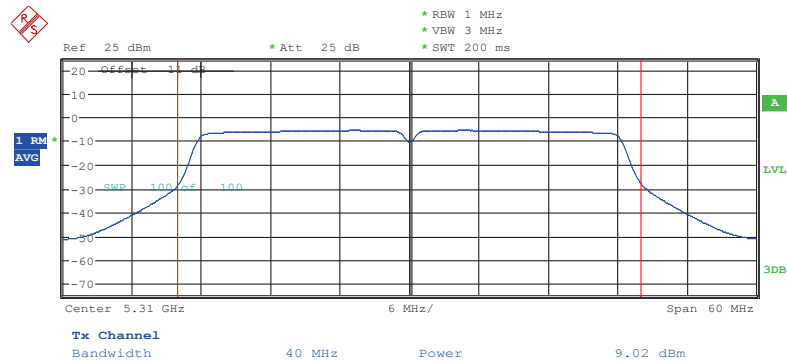
MAXIMUM CONDUCTED POWER ANT2_11n20CH64
Date: 19.SEP.2022 16:49:59



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



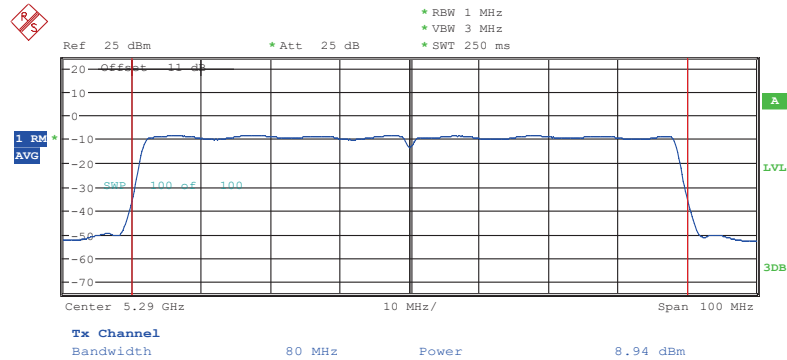
MAXIMUM CONDUCTED POWER ANT2_11n40CH54
Date: 19.SEP.2022 17:02:29



MAXIMUM CONDUCTED POWER ANT2_11n40CH62
Date: 19.SEP.2022 17:09:14

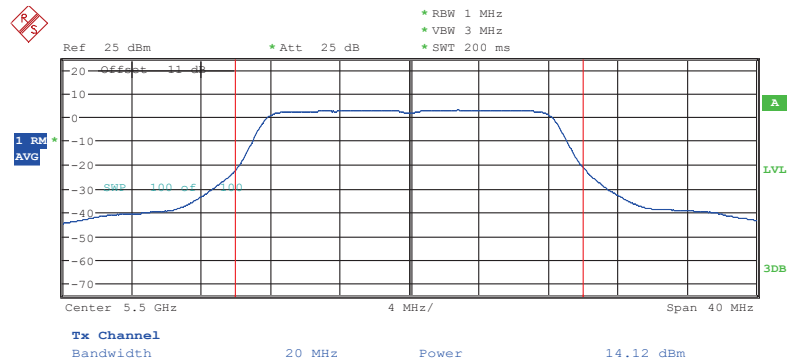


Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



MAXIMUM CONDUCTED POWER ANT2_11ac80CH58
Date: 19.SEP.2022 17:21:49

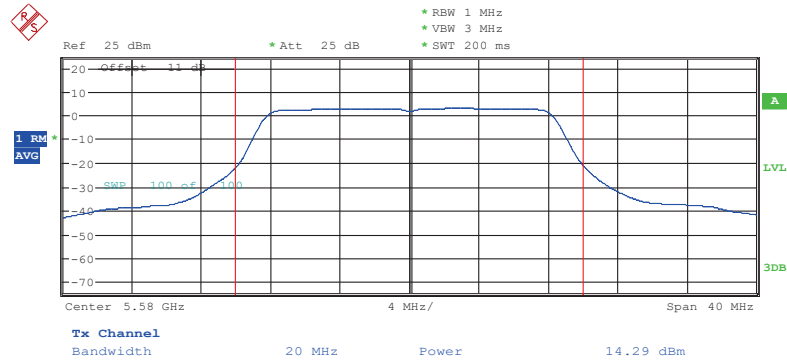
5.47 GHz ~ 5.725 GHz



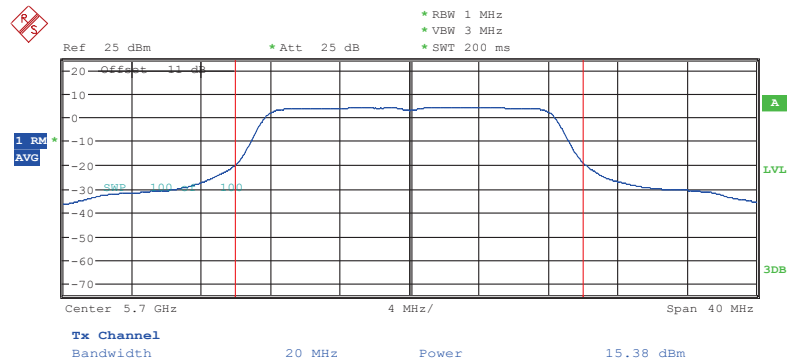
MAXIMUM CONDUCTED POWER ANT2_11acH100
Date: 19.SEP.2022 17:27:49



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



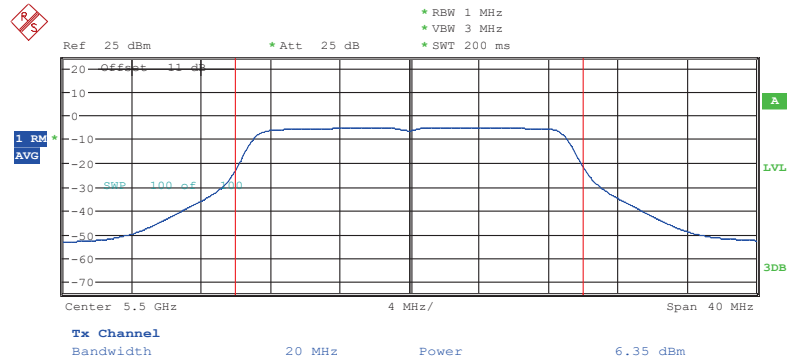
MAXIMUM CONDUCTED POWER ANT2_11aCH16
Date: 19.SEP.2022 17:35:09



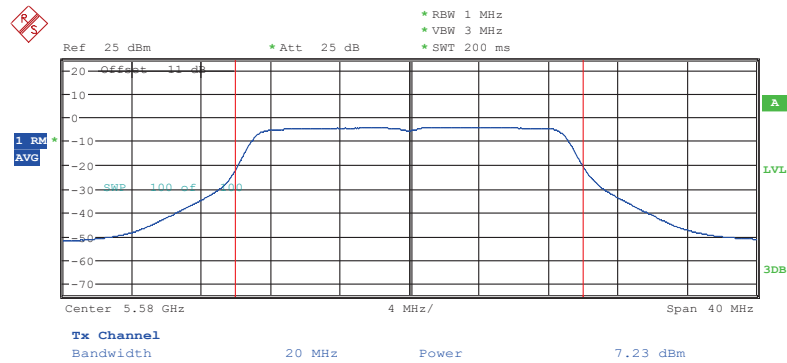
MAXIMUM CONDUCTED POWER ANT2_11aCH140
Date: 19.SEP.2022 17:56:49



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



MAXIMUM CONDUCTED POWER ANT2_11n20CH100
Date: 19.SEP.2022 18:43:59

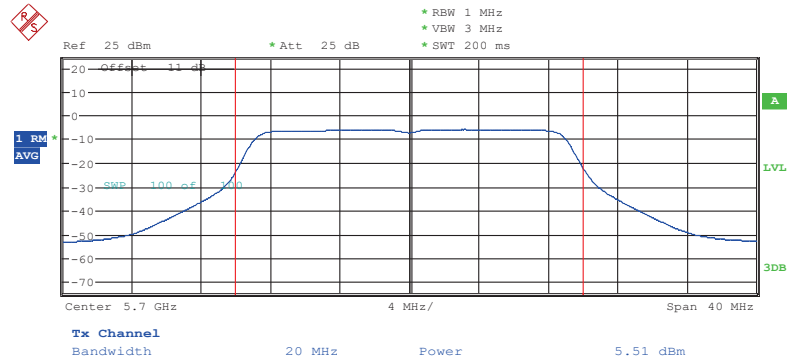


MAXIMUM CONDUCTED POWER ANT2_11n20CH116
Date: 19.SEP.2022 18:50:39

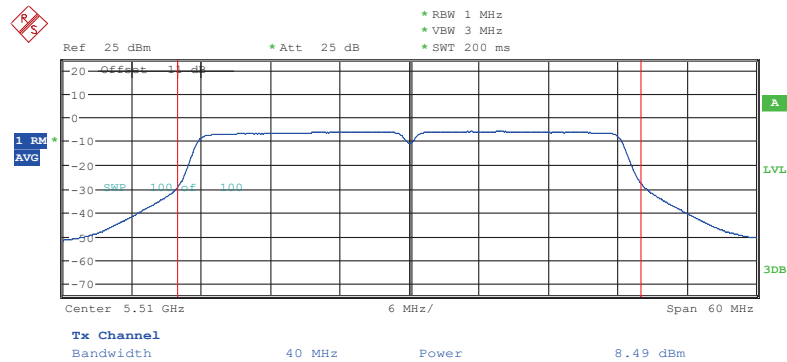


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



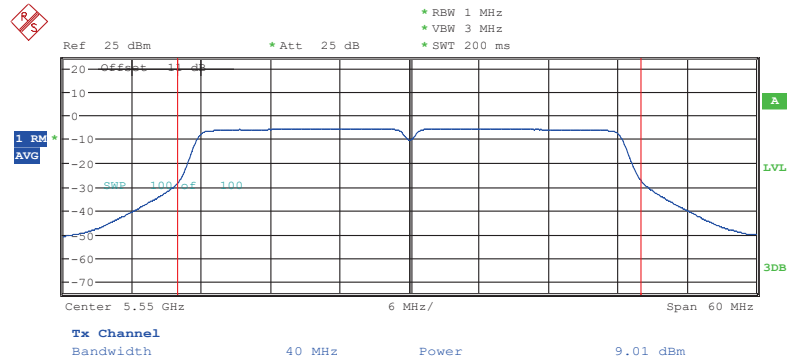
MAXIMUM CONDUCTED POWER ANT2_11n20CH140
Date: 19.SEP.2022 18:57:09



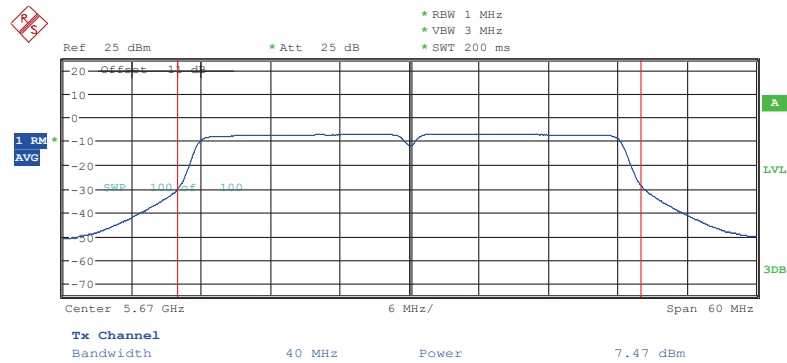
MAXIMUM CONDUCTED POWER ANT2_11n40CH102
Date: 19.SEP.2022 20:30:29



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



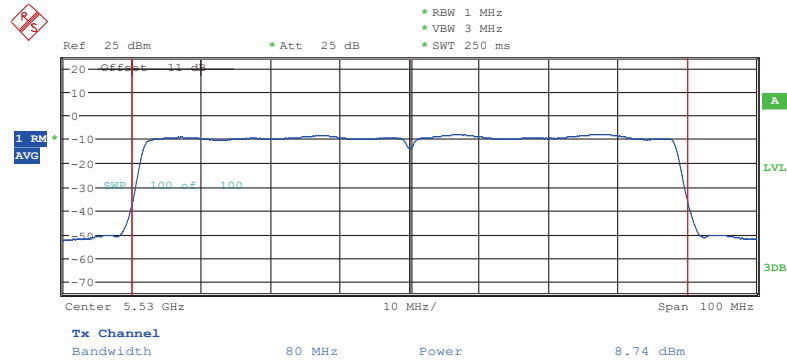
MAXIMUM CONDUCTED POWER ANT2_11n40CH110
Date: 19.SEP.2022 20:36:19



MAXIMUM CONDUCTED POWER ANT2_11n40CH134
Date: 19.SEP.2022 20:41:19

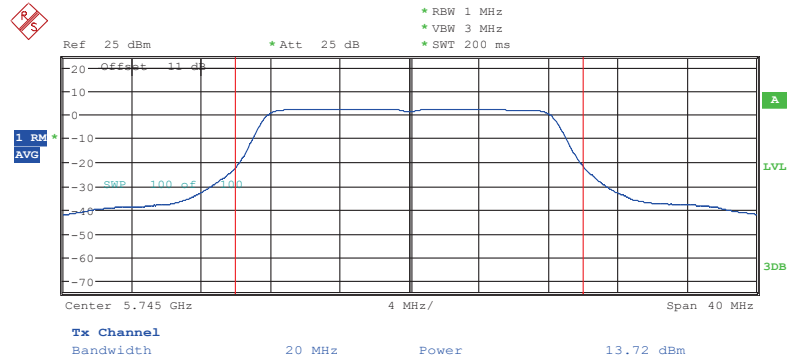


Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



MAXIMUM CONDUCTED POWER ANT2_11ac80CH106
Date: 19.SEP.2022 20:49:04

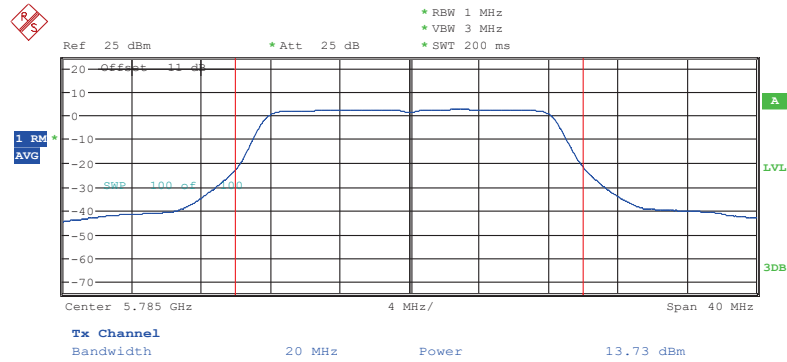
5.725 GHz ~ 5.85 GHz



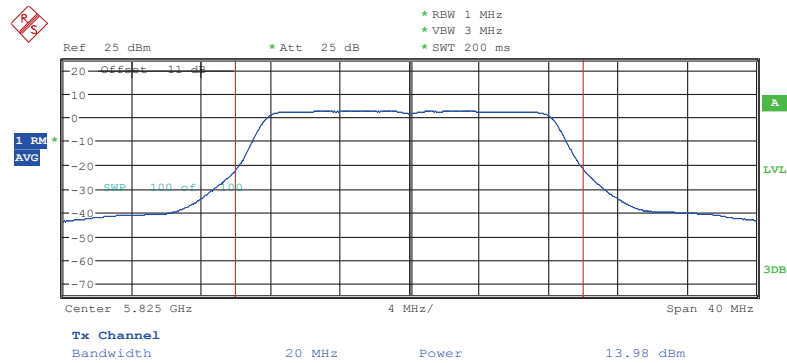
MAXIMUM CONDUCTED POWER ANT2_11aCH149
Date: 19.SEP.2022 20:58:49



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



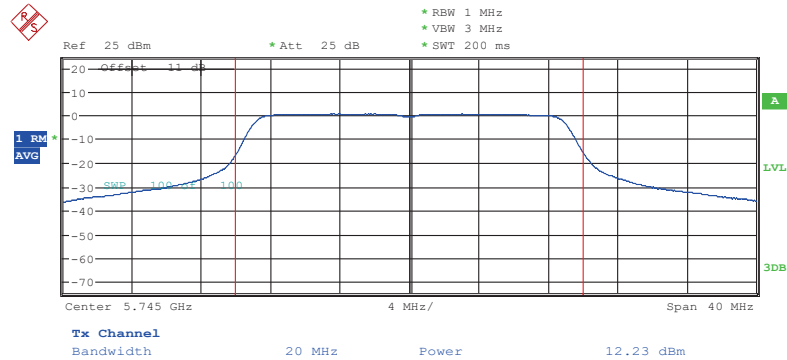
MAXIMUM CONDUCTED POWER ANT2_11aCH157
Date: 19.SEP.2022 21:05:29



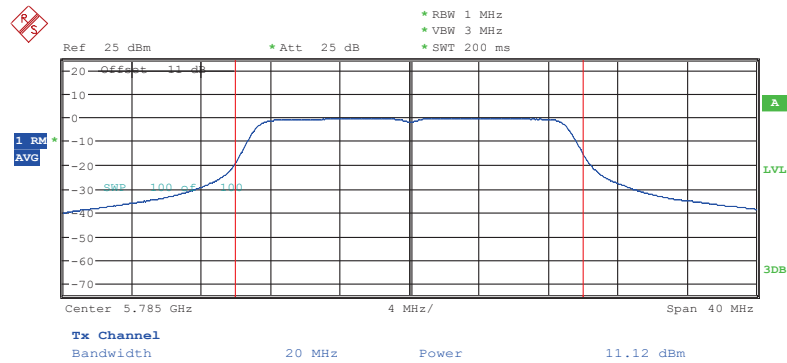
MAXIMUM CONDUCTED POWER ANT2_11aCH165
Date: 19.SEP.2022 21:11:54



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



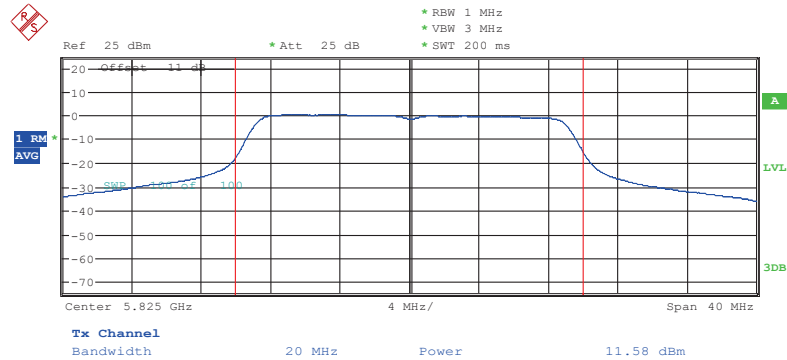
MAXIMUM CONDUCTED POWER ANT2_11n20CH149
Date: 19.SEP.2022 21:18:49



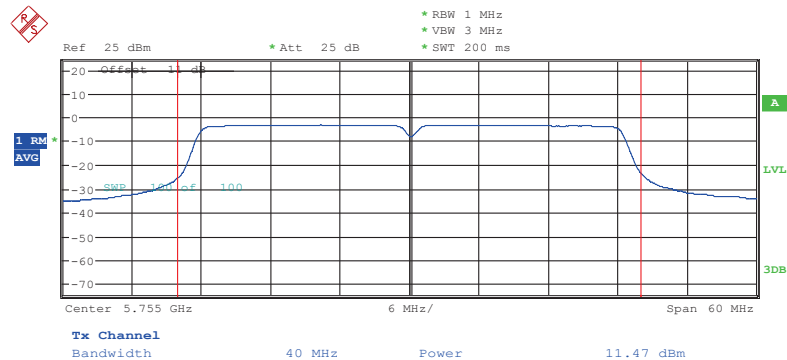
MAXIMUM CONDUCTED POWER ANT2_11n20CH157
Date: 19.SEP.2022 21:24:19



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



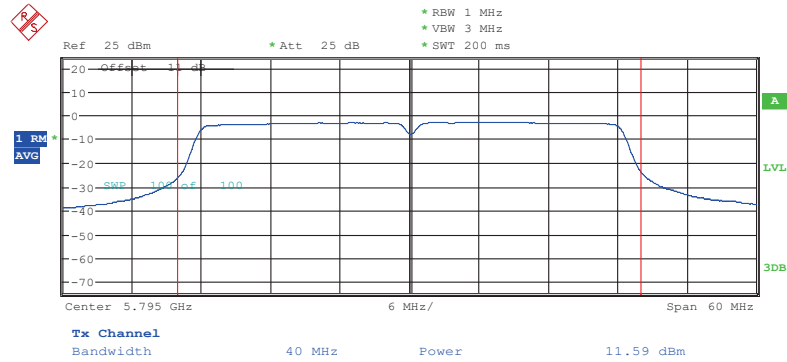
MAXIMUM CONDUCTED POWER ANT2_11n20CH165
Date: 19.SEP.2022 21:31:15



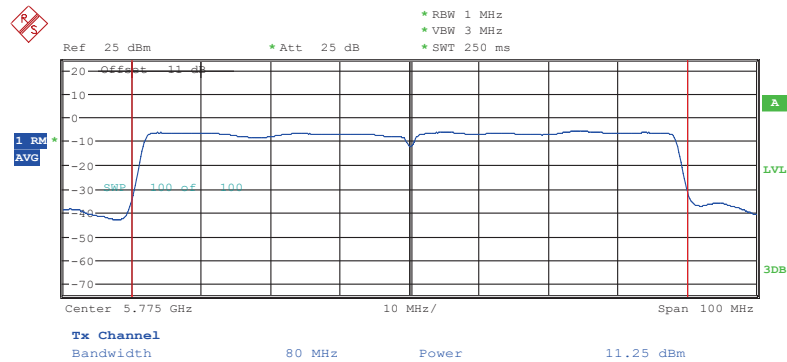
MAXIMUM CONDUCTED POWER ANT2_11n40CH151
Date: 19.SEP.2022 21:37:57



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



MAXIMUM CONDUCTED POWER ANT2_11n40CH159
Date: 19.SEP.2022 21:44:19



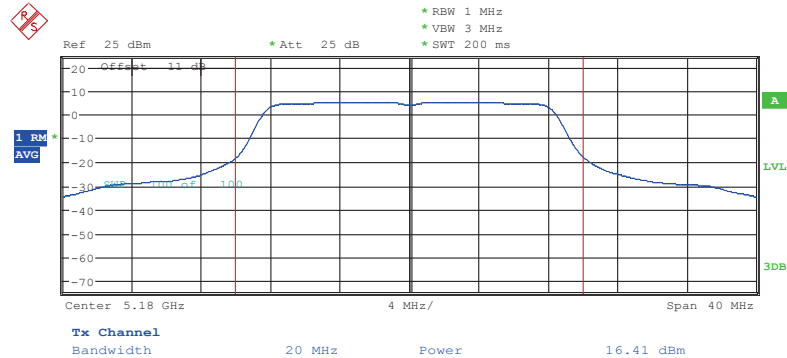
MAXIMUM CONDUCTED POWER ANT2_11ac80CH155
Date: 19.SEP.2022 21:51:47



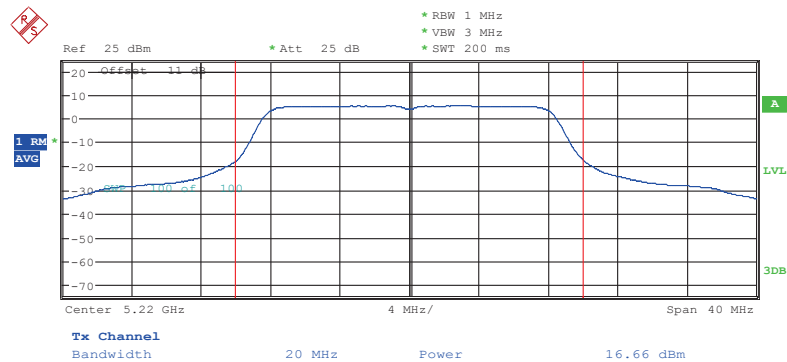
Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS

ANT3

5.15 GHz ~ 5.25 GHz



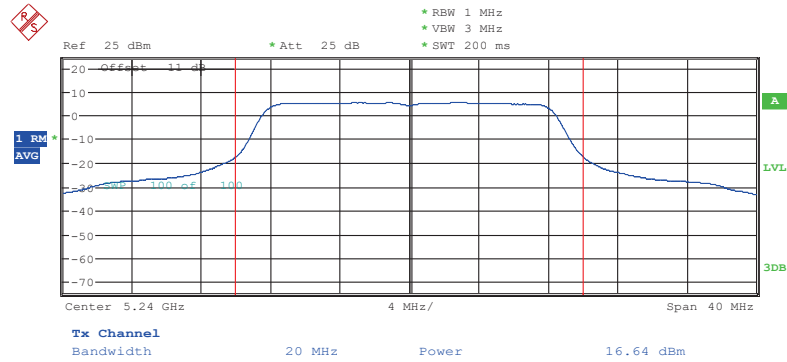
MAXIMUM CONDUCTED POWER ANT3_11aCH36
Date: 19.SEP.2022 14:52:13



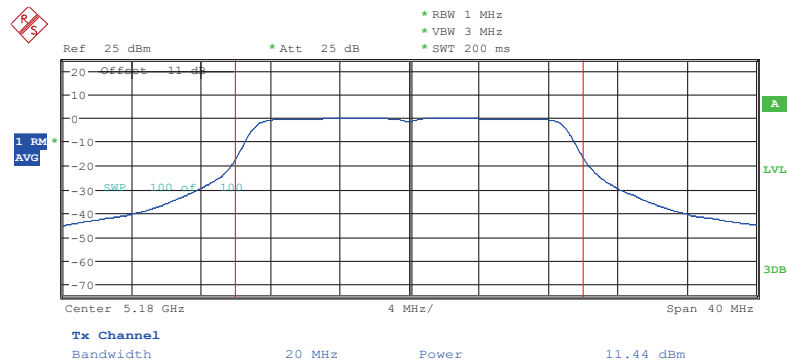
MAXIMUM CONDUCTED POWER ANT3_11aCH44
Date: 19.SEP.2022 14:59:48



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



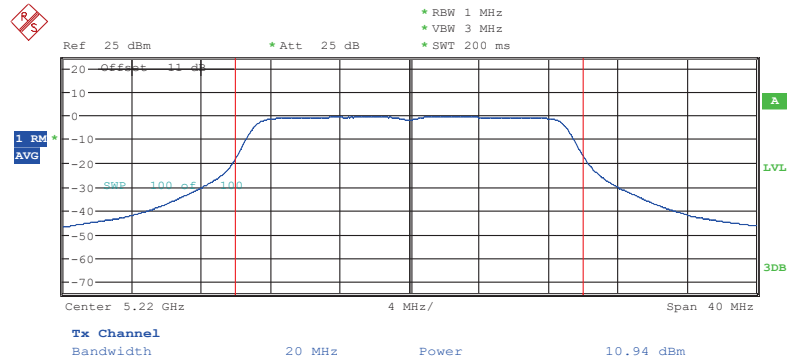
MAXIMUM CONDUCTED POWER ANT3_11aCH48
Date: 19.SEP.2022 15:06:28



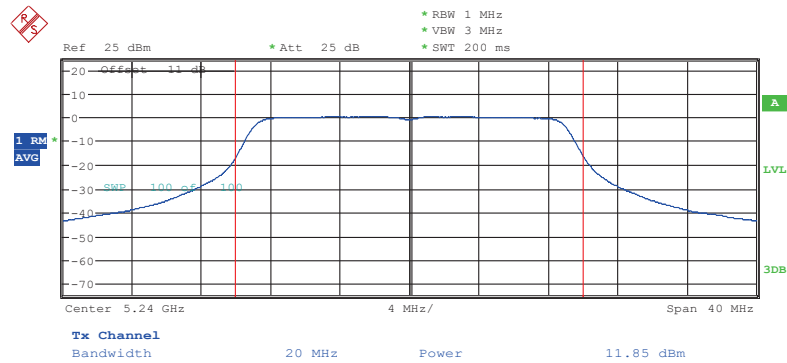
MAXIMUM CONDUCTED POWER ANT3_11n20CH36
Date: 19.SEP.2022 15:14:52



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



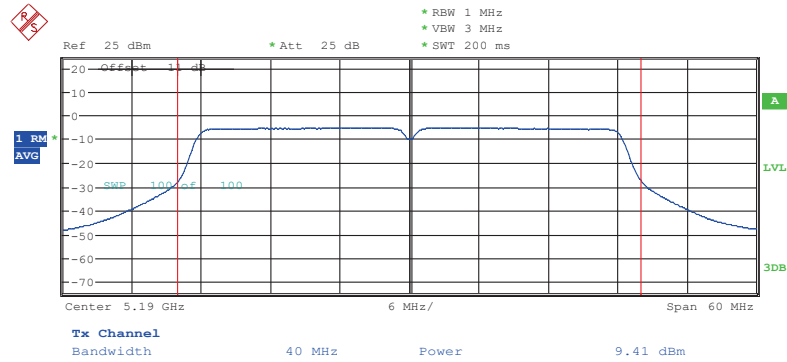
MAXIMUM CONDUCTED POWER ANT3_11n20CH44
Date: 19.SEP.2022 15:20:48



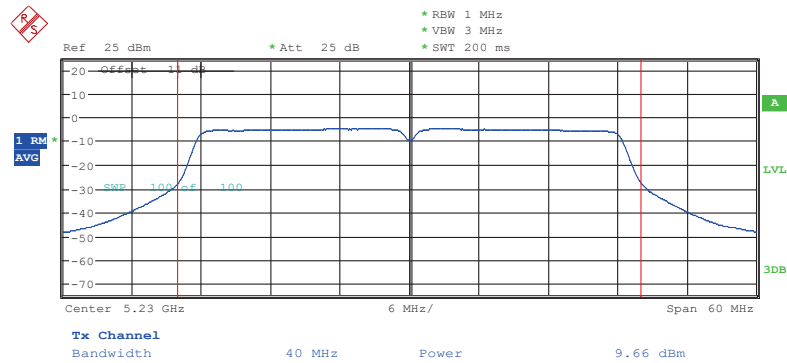
MAXIMUM CONDUCTED POWER ANT3_11n20CH48
Date: 19.SEP.2022 15:25:58



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



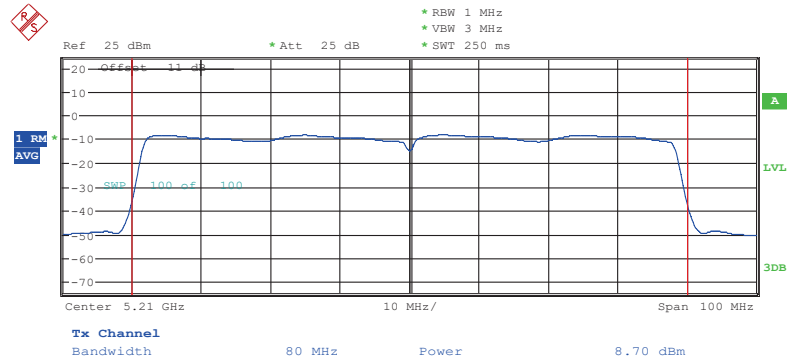
MAXIMUM CONDUCTED POWER ANT3_11n40CH38
Date: 19.SEP.2022 15:35:08



MAXIMUM CONDUCTED POWER ANT3_11n40CH46
Date: 19.SEP.2022 15:40:08

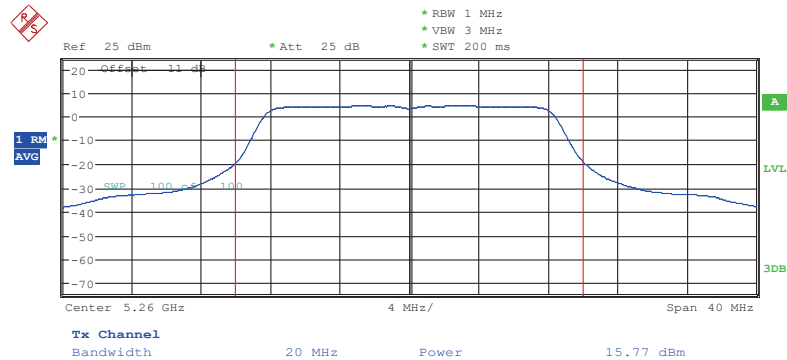


Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



MAXIMUM CONDUCTED POWER ANT3_11ac80CH42
Date: 19.SEP.2022 15:46:10

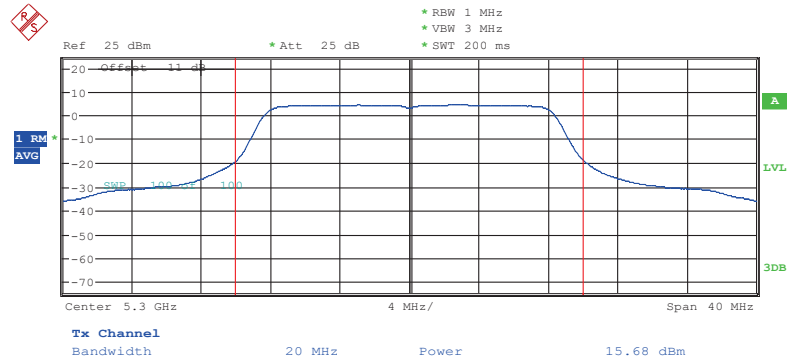
5.25 GHz ~ 5.35 GHz



MAXIMUM CONDUCTED POWER ANT3_11acH52
Date: 19.SEP.2022 15:58:38

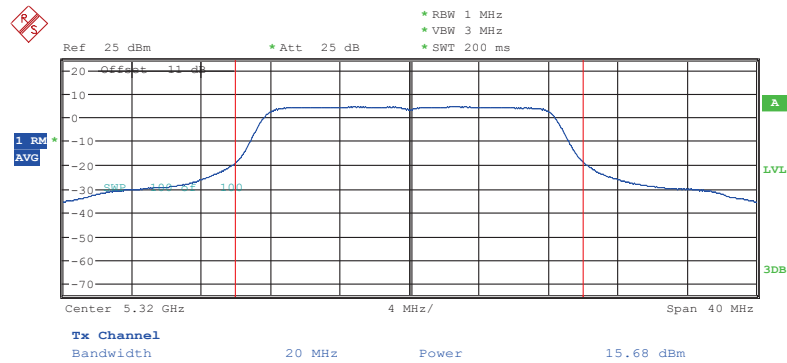


Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



MAXIMUM CONDUCTED POWER ANT3_11aCH60

Date: 19.SEP.2022 16:04:28

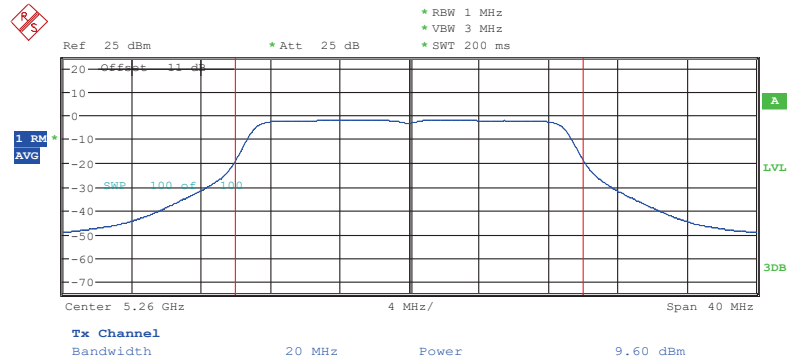


MAXIMUM CONDUCTED POWER ANT3_11aCH64

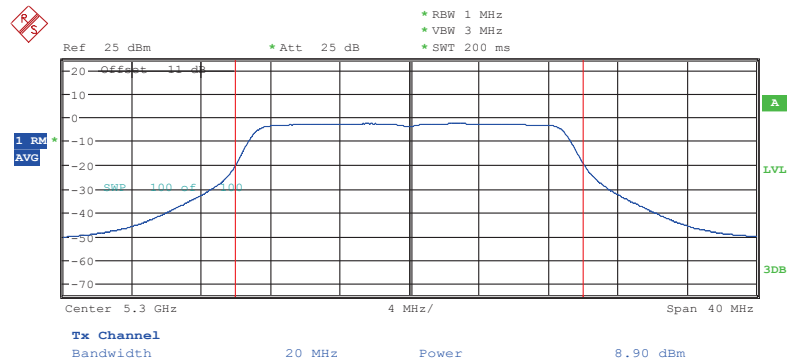
Date: 19.SEP.2022 16:10:39



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



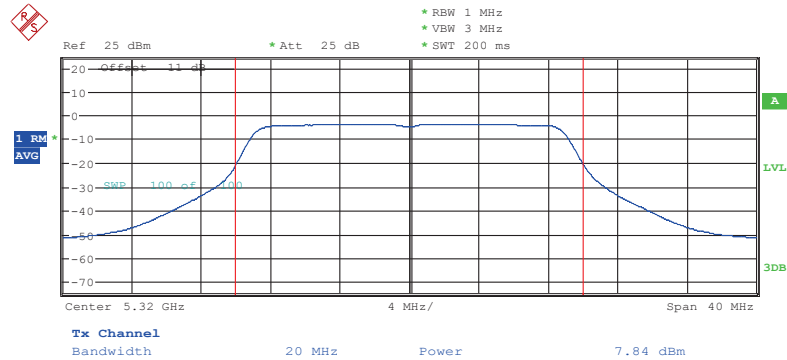
MAXIMUM CONDUCTED POWER ANT3_11n20CH52
Date: 19.SEP.2022 16:17:09



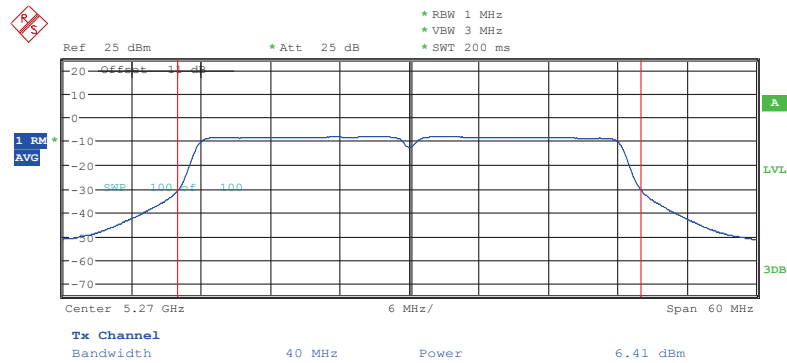
MAXIMUM CONDUCTED POWER ANT3_11n20CH60
Date: 19.SEP.2022 16:21:49



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



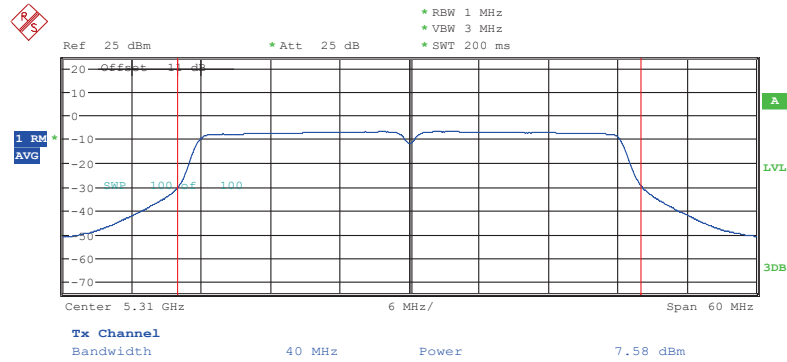
MAXIMUM CONDUCTED POWER ANT3_11n20CH64
Date: 19.SEP.2022 16:51:09



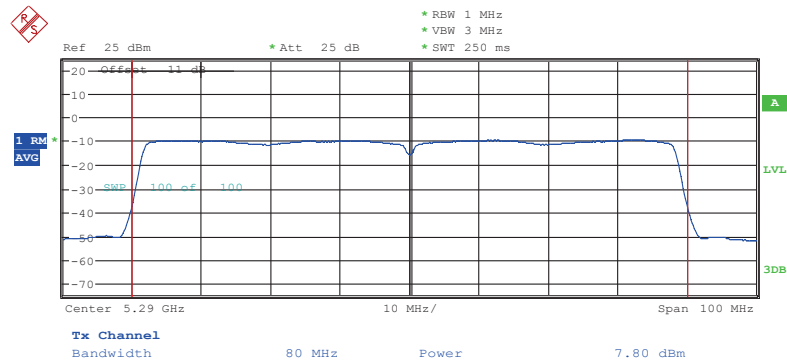
MAXIMUM CONDUCTED POWER ANT3_11n40CH54
Date: 19.SEP.2022 17:04:10



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



MAXIMUM CONDUCTED POWER ANT3_11n40CH62
Date: 19.SEP.2022 17:10:19



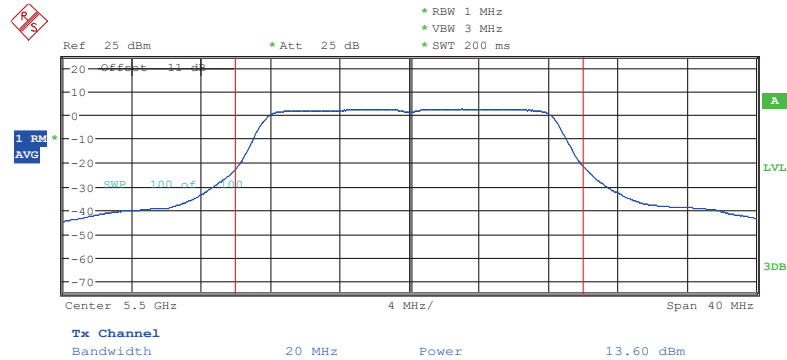
MAXIMUM CONDUCTED POWER ANT3_11ac80CH58
Date: 19.SEP.2022 17:17:59



Registration number: W6R22002-19655-C-54-R2

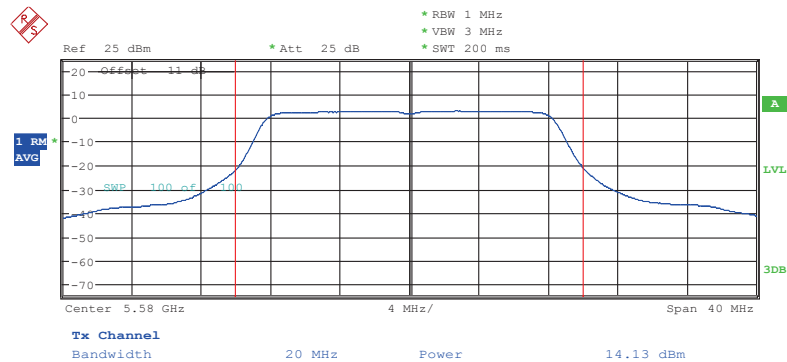
FCC ID: W23-WMXWAVE2AS

5.47 GHz ~ 5.725 GHz



MAXIMUM CONDUCTED POWER ANT3_11aCH100

Date: 19.SEP.2022 17:29:58

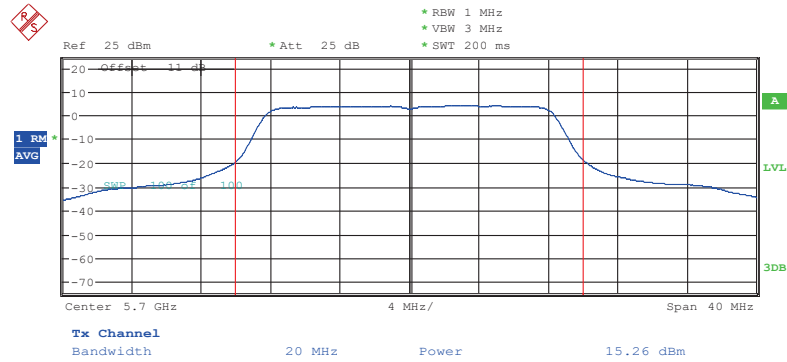


MAXIMUM CONDUCTED POWER ANT3_11aCH116

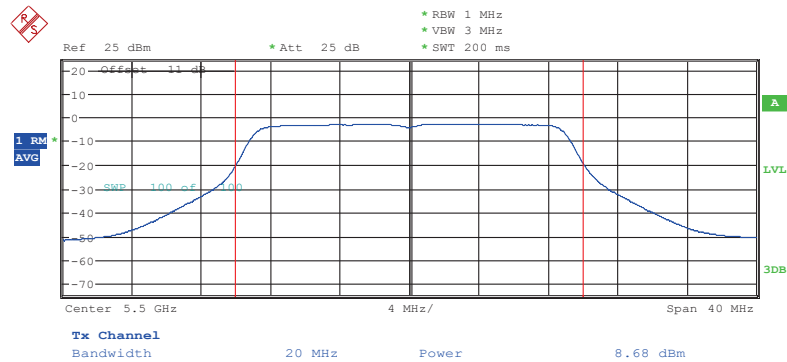
Date: 19.SEP.2022 17:36:19



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



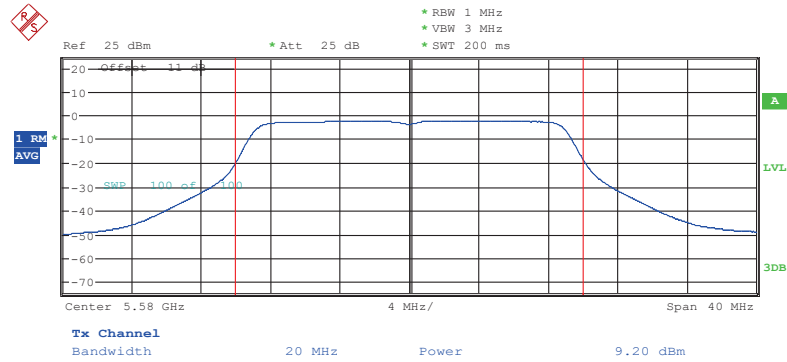
MAXIMUM CONDUCTED POWER ANT3_11aCH140
Date: 19.SEP.2022 17:57:59



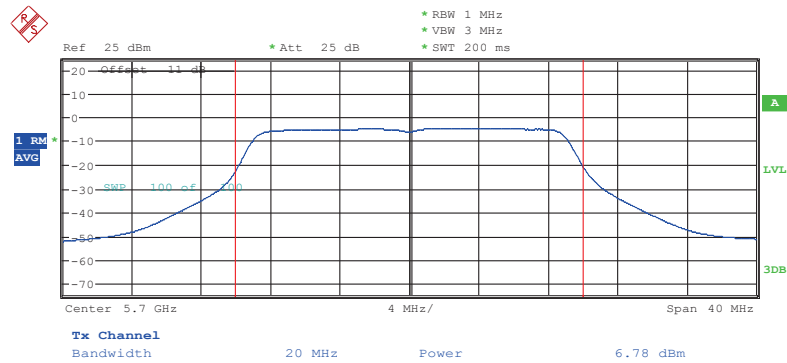
MAXIMUM CONDUCTED POWER ANT3_11n20CH100
Date: 19.SEP.2022 18:45:09



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



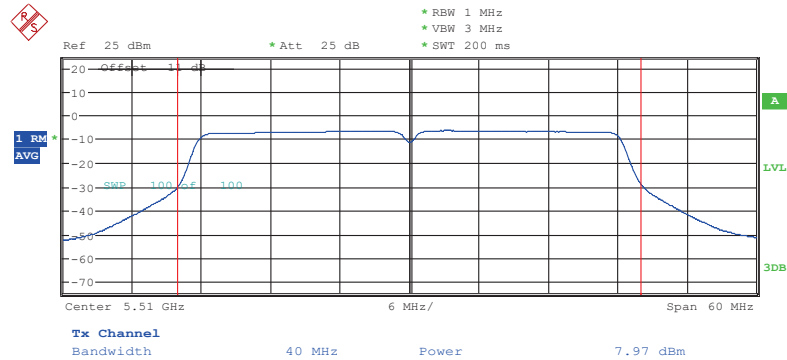
MAXIMUM CONDUCTED POWER ANT3_11n20CH116
Date: 19.SEP.2022 18:52:11



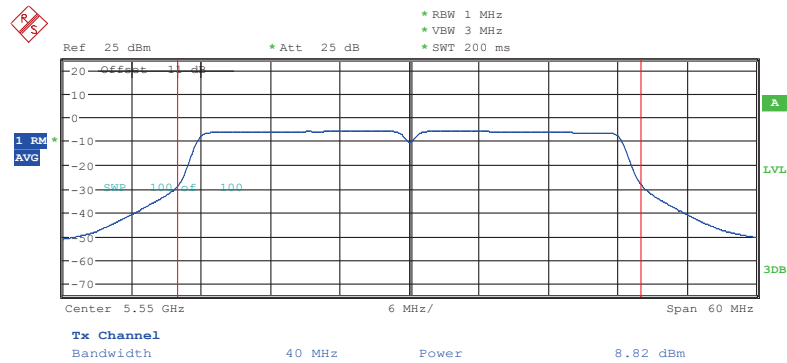
MAXIMUM CONDUCTED POWER ANT3_11n20CH140
Date: 19.SEP.2022 18:58:19



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



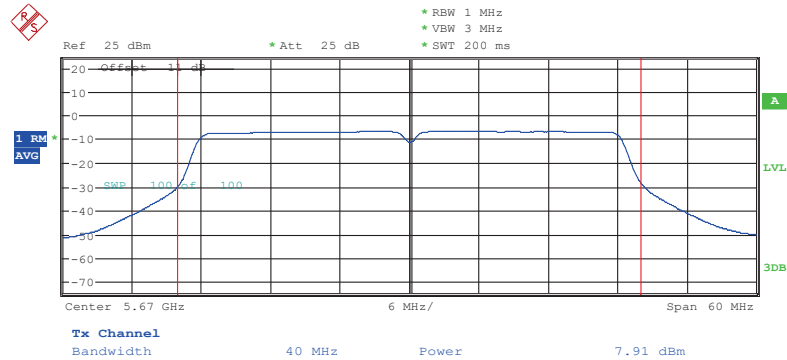
MAXIMUM CONDUCTED POWER ANT3_11n40CH102
Date: 19.SEP.2022 20:32:09



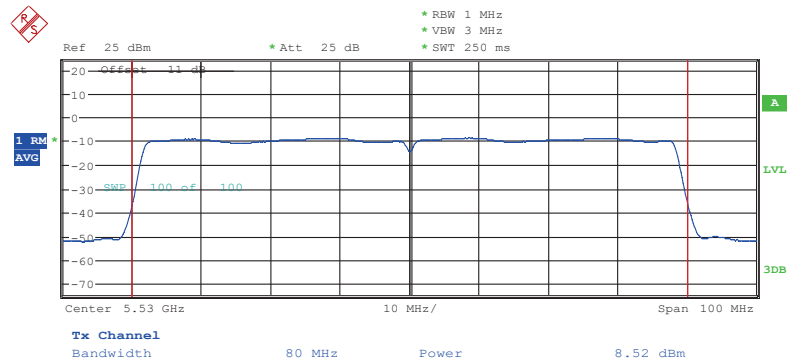
MAXIMUM CONDUCTED POWER ANT3_11n40CH110
Date: 19.SEP.2022 20:37:29



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



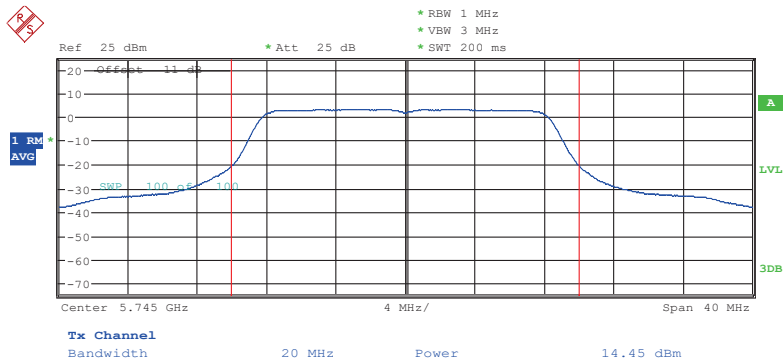
MAXIMUM CONDUCTED POWER ANT3_11n40CH134
Date: 19.SEP.2022 20:42:54



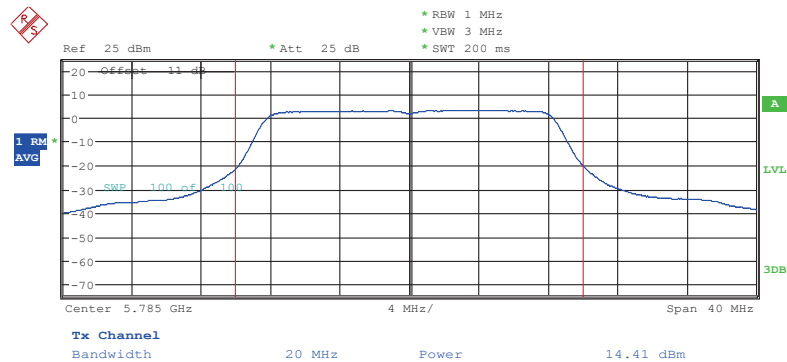
MAXIMUM CONDUCTED POWER ANT3_11ac80CH106
Date: 19.SEP.2022 20:50:55



FCC ID: W23-WMXWAVE2AS



Date: 19.SEP.2022 21:00:39

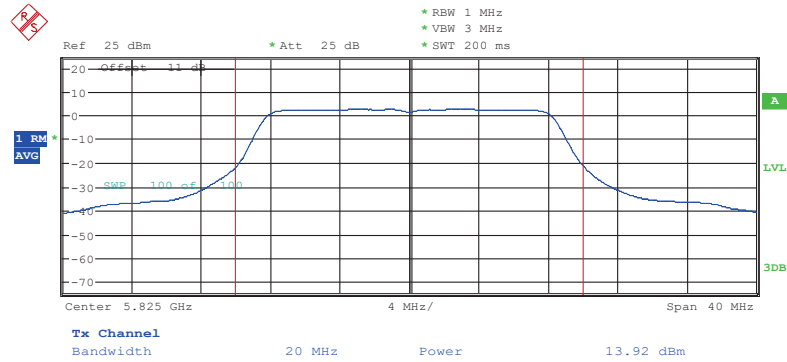


Date: 19.SEP.2022 21:06:39

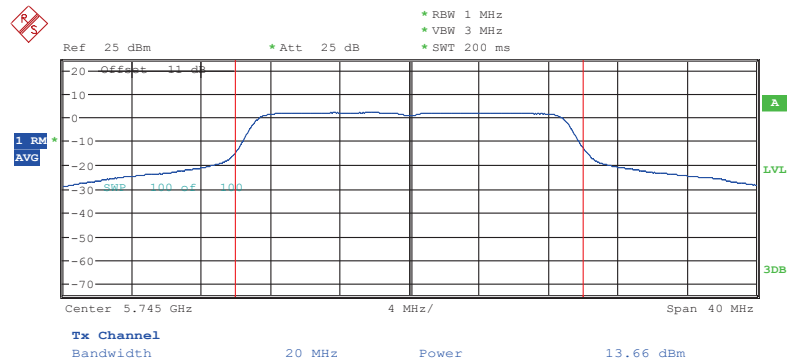


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



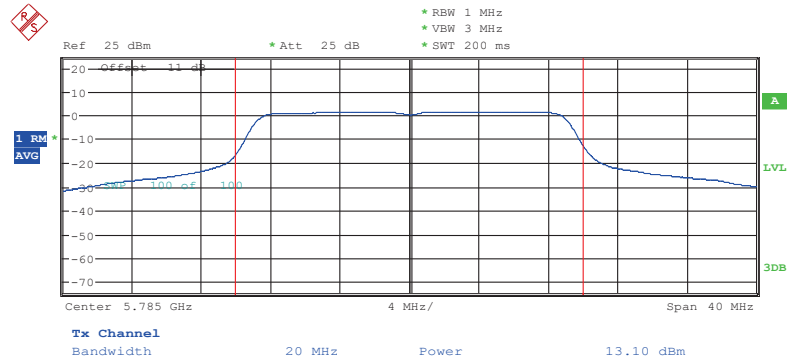
MAXIMUM CONDUCTED POWER ANT3_11aCH165
Date: 19.SEP.2022 21:13:19



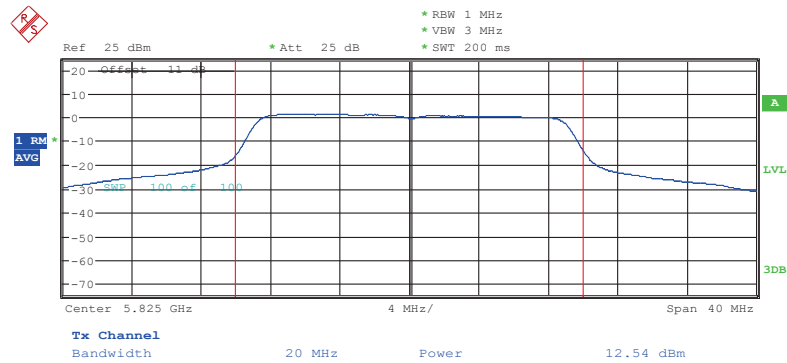
MAXIMUM CONDUCTED POWER ANT3_11n20CH149
Date: 19.SEP.2022 21:20:19



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



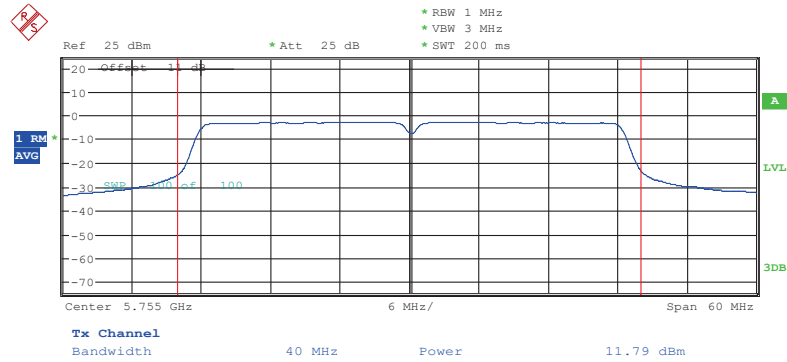
MAXIMUM CONDUCTED POWER ANT3_11n20CH157
Date: 19.SEP.2022 21:25:29



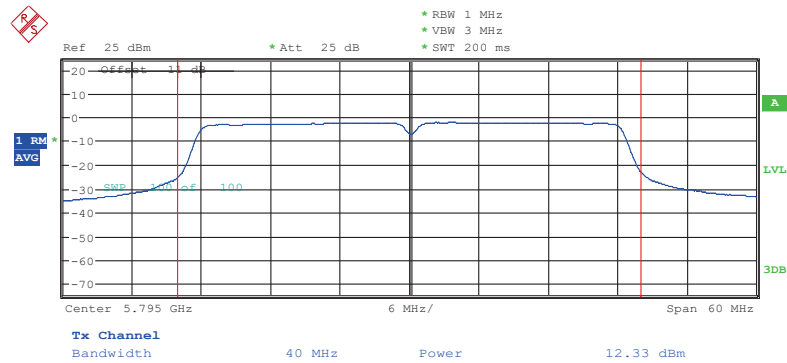
MAXIMUM CONDUCTED POWER ANT3_11n20CH165
Date: 19.SEP.2022 21:32:49



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



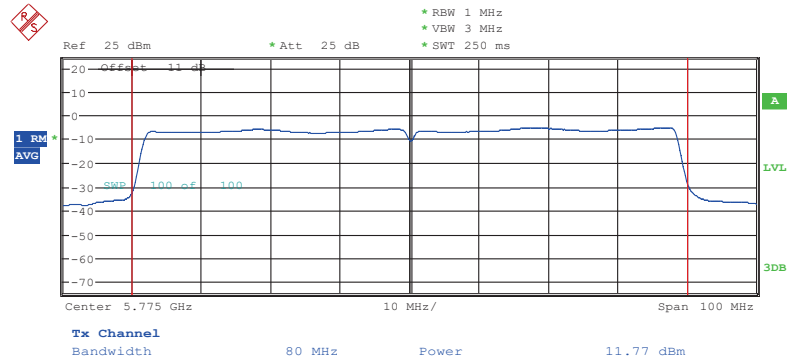
MAXIMUM CONDUCTED POWER ANT3_11n40CH151
Date: 19.SEP.2022 21:39:31



MAXIMUM CONDUCTED POWER ANT3_11n40CH159
Date: 19.SEP.2022 21:45:19

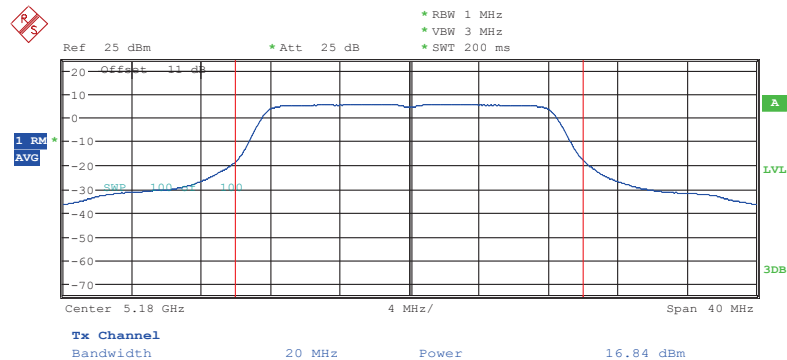


Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



MAXIMUM CONDUCTED POWER ANT3_11ac80CH155
Date: 19.SEP.2022 21:53:38

ANT4 5.15 GHz ~ 5.25 GHz

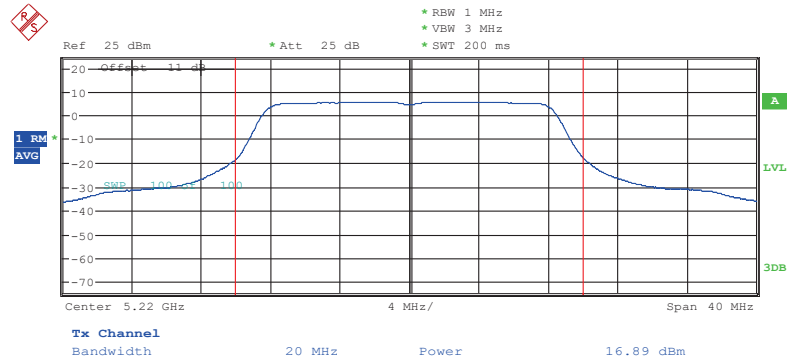


MAXIMUM CONDUCTED POWER ANT4_11aCH36
Date: 19.SEP.2022 14:53:38



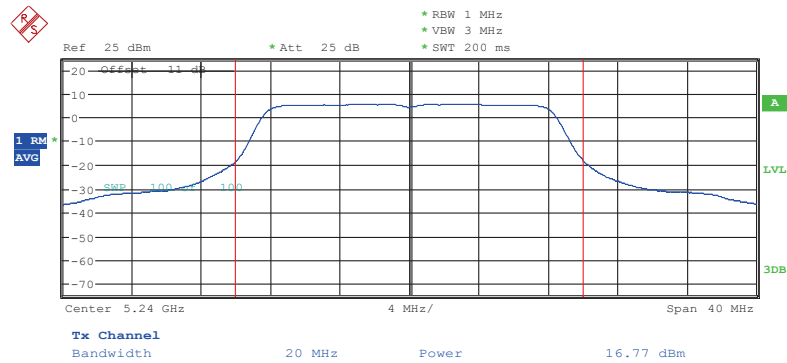
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



MAXIMUM CONDUCTED POWER ANT4_11aCH44

Date: 19.SEP.2022 15:02:12

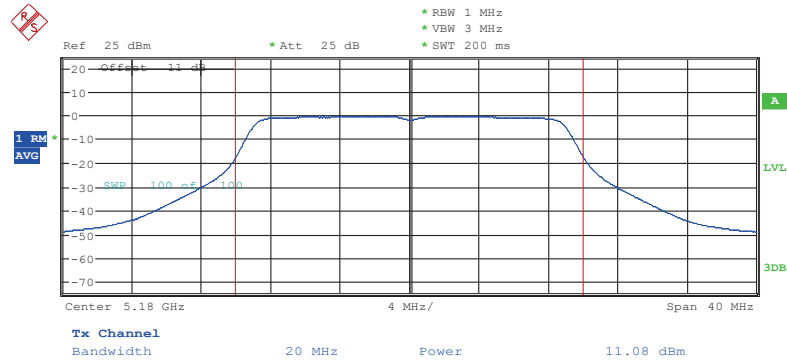


MAXIMUM CONDUCTED POWER ANT4_11aCH48

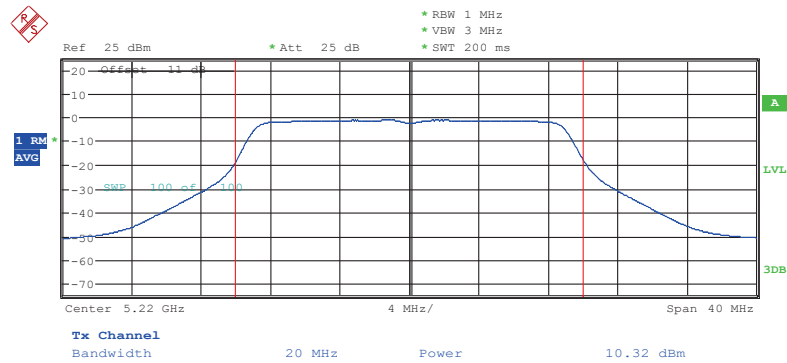
Date: 19.SEP.2022 15:08:13



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



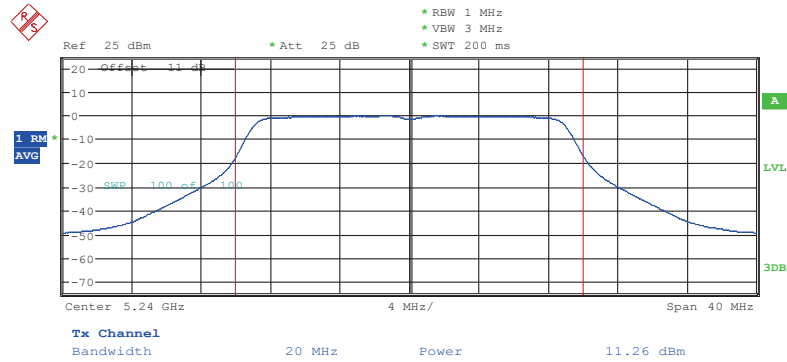
MAXIMUM CONDUCTED POWER ANT4_11n20CH36
Date: 19.SEP.2022 15:15:58



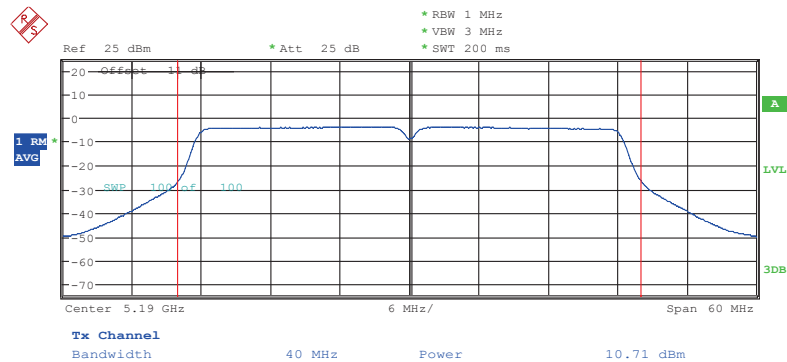
MAXIMUM CONDUCTED POWER ANT4_11n20CH44
Date: 19.SEP.2022 15:21:48



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



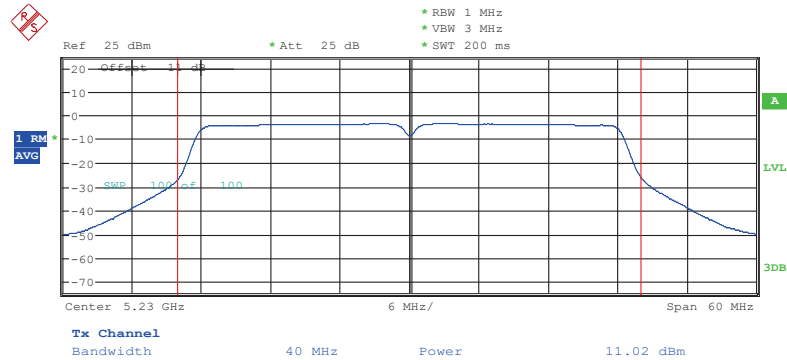
MAXIMUM CONDUCTED POWER ANT4_11n20CH48
Date: 19.SEP.2022 15:26:58



MAXIMUM CONDUCTED POWER ANT4_11n40CH38
Date: 19.SEP.2022 15:36:18

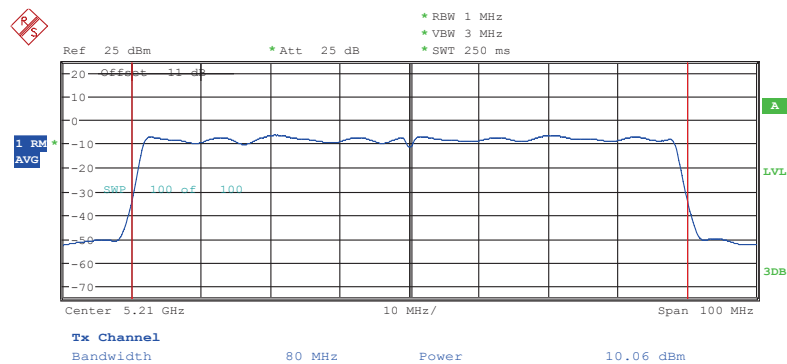


Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



MAXIMUM CONDUCTED POWER ANT4_11n40CH46

Date: 19.SEP.2022 15:41:18



MAXIMUM CONDUCTED POWER ANT4_11ac80CH42

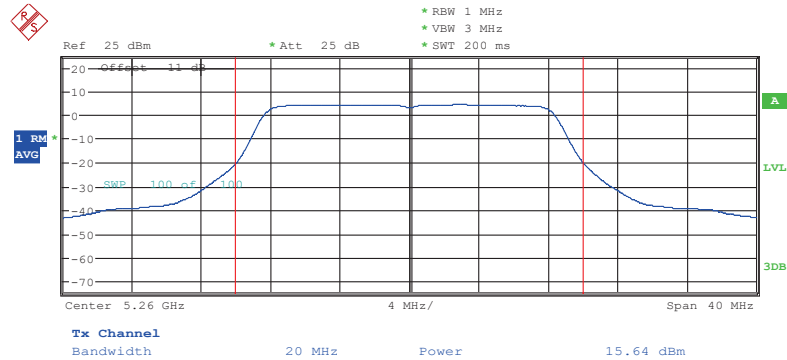
Date: 19.SEP.2022 15:48:00



Registration number: W6R22002-19655-C-54-R2

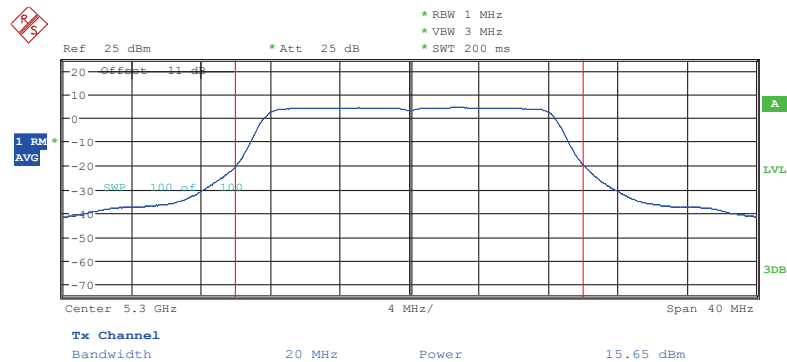
FCC ID: W23-WMXWAVE2AS

5.25 GHz ~ 5.35 GHz



MAXIMUM CONDUCTED POWER ANT4_11aCH52

Date: 19.SEP.2022 15:59:48

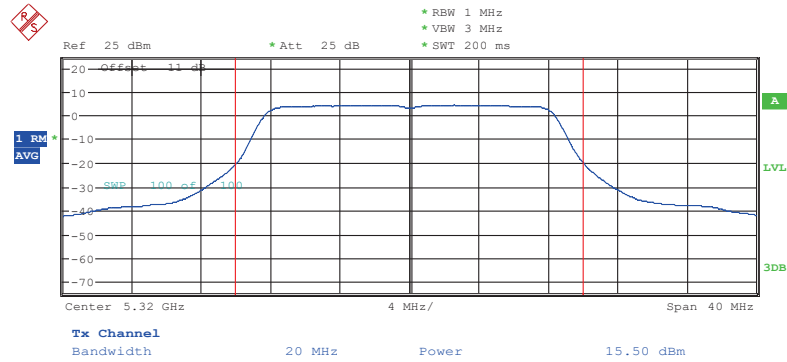


MAXIMUM CONDUCTED POWER ANT4_11aCH60

Date: 19.SEP.2022 16:05:49

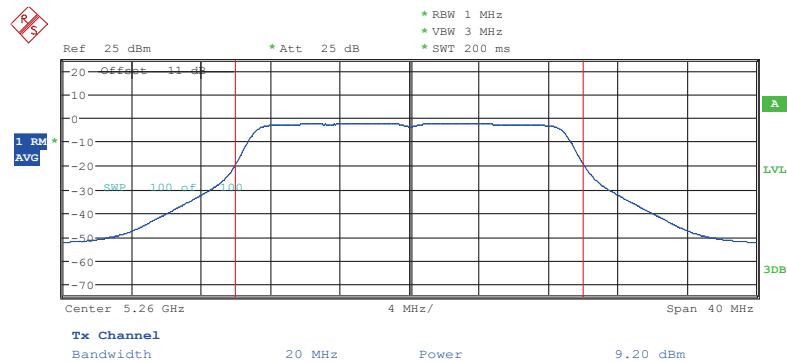


Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



MAXIMUM CONDUCTED POWER ANT4_11aCH64

Date: 19.SEP.2022 16:12:25

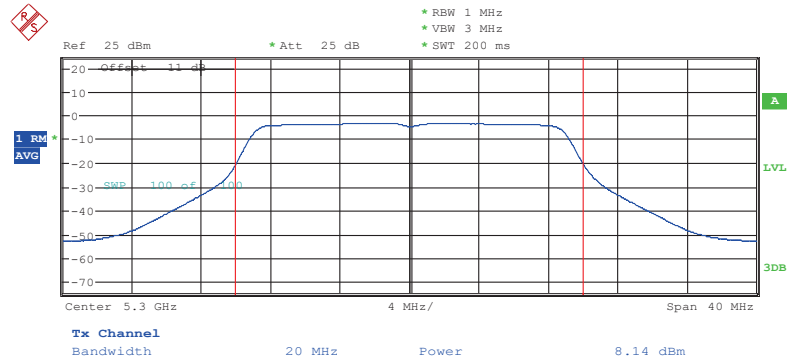


MAXIMUM CONDUCTED POWER ANT4_11n20CH52

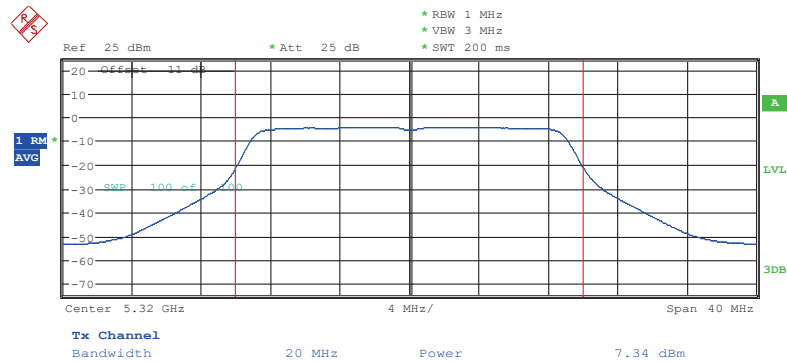
Date: 19.SEP.2022 16:18:09



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



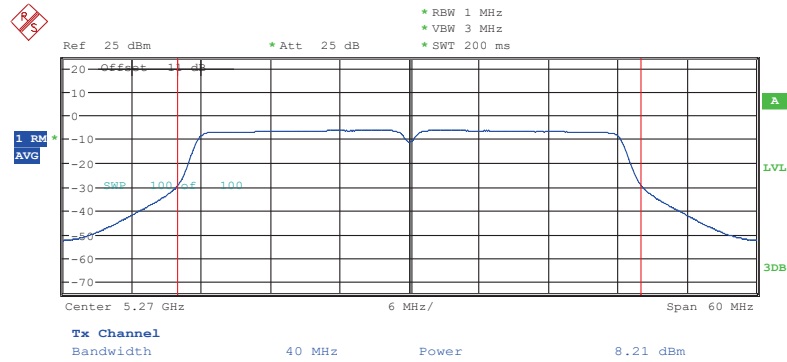
MAXIMUM CONDUCTED POWER ANT4_11n20CH60
Date: 19.SEP.2022 16:22:49



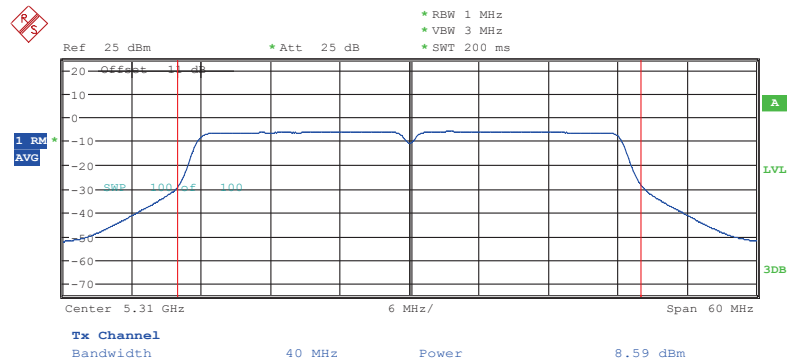
MAXIMUM CONDUCTED POWER ANT4_11n20CH64
Date: 19.SEP.2022 16:52:49



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



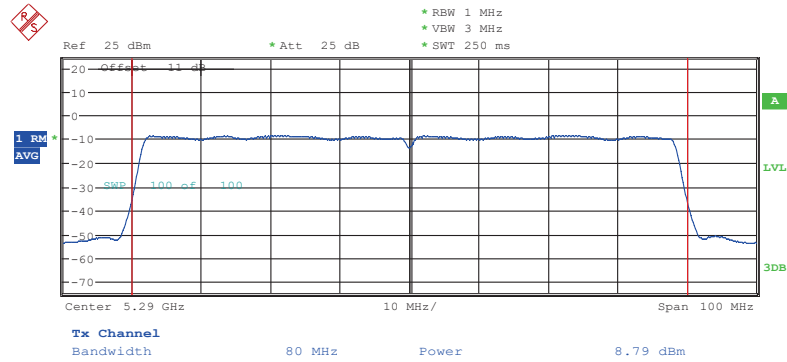
MAXIMUM CONDUCTED POWER ANT4_11n40CH54
Date: 19.SEP.2022 17:05:29



MAXIMUM CONDUCTED POWER ANT4_11n40CH62
Date: 19.SEP.2022 17:11:29

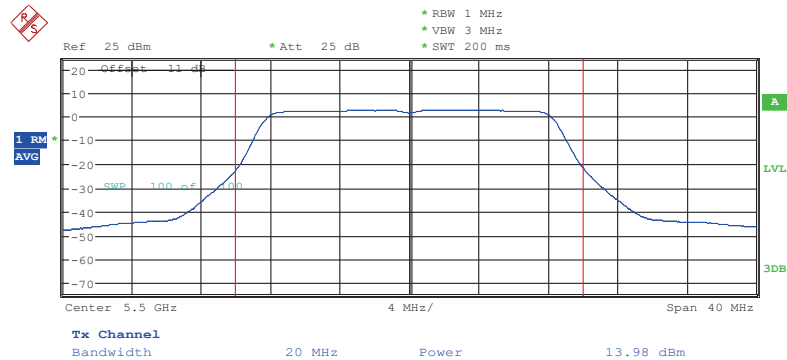


Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



MAXIMUM CONDUCTED POWER ANT4_11ac80CH58
Date: 19.SEP.2022 17:19:09

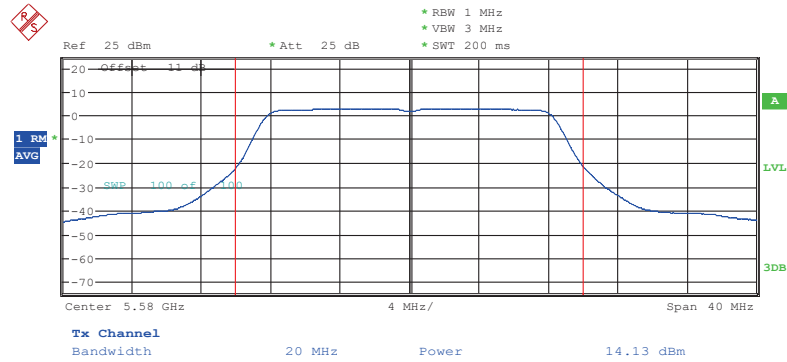
5.47 GHz ~ 5.725 GHz



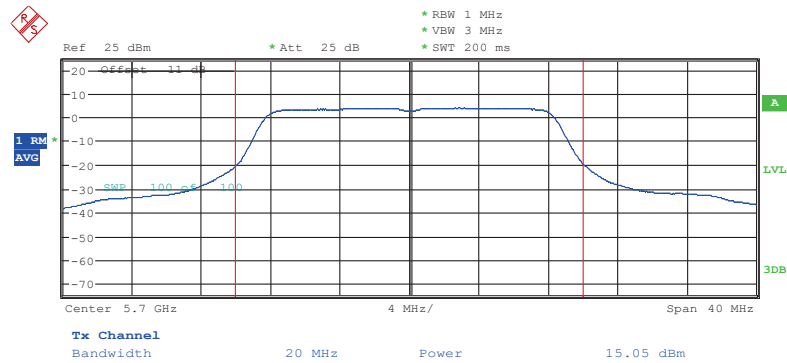
MAXIMUM CONDUCTED POWER ANT4_11acH100
Date: 19.SEP.2022 17:31:09



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



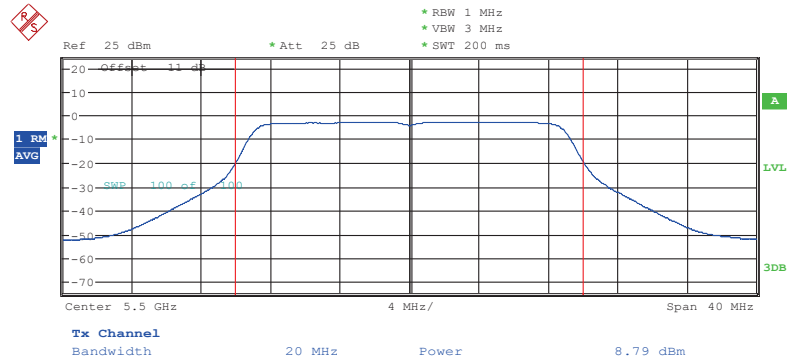
MAXIMUM CONDUCTED POWER ANT4_11aCH16
Date: 19.SEP.2022 17:37:49



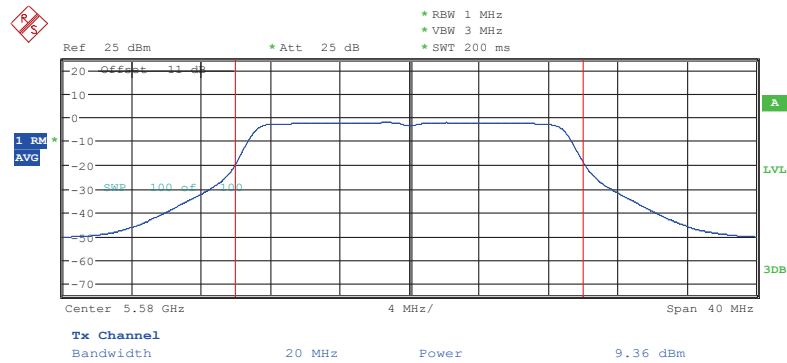
MAXIMUM CONDUCTED POWER ANT4_11aCH140
Date: 19.SEP.2022 18:15:59



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



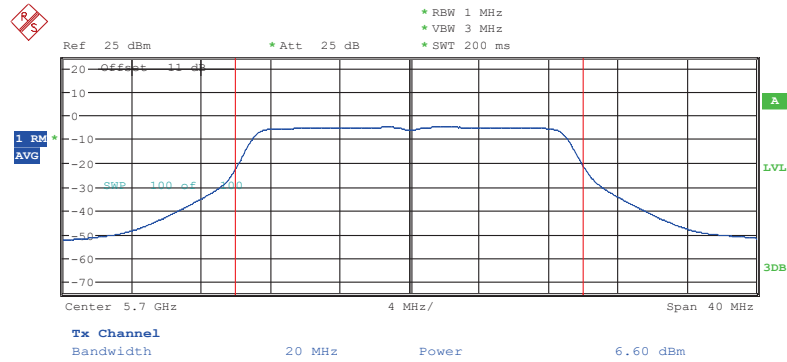
MAXIMUM CONDUCTED POWER ANT4_11n20CH100
Date: 19.SEP.2022 18:46:19



MAXIMUM CONDUCTED POWER ANT4_11n20CH116
Date: 19.SEP.2022 18:54:04

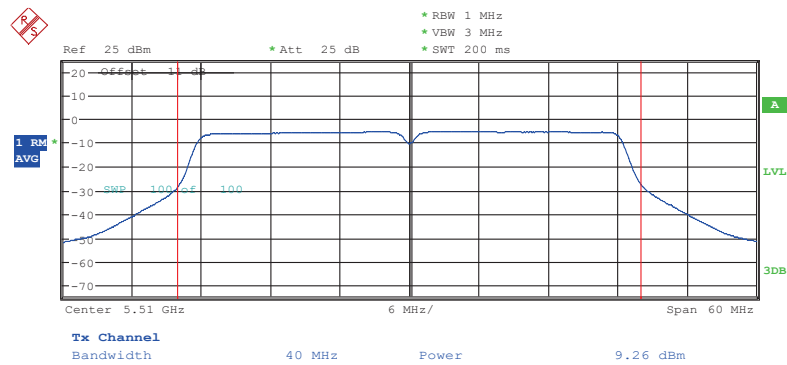


Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



MAXIMUM CONDUCTED POWER ANT4_11n20CH140

Date: 19.SEP.2022 18:59:52

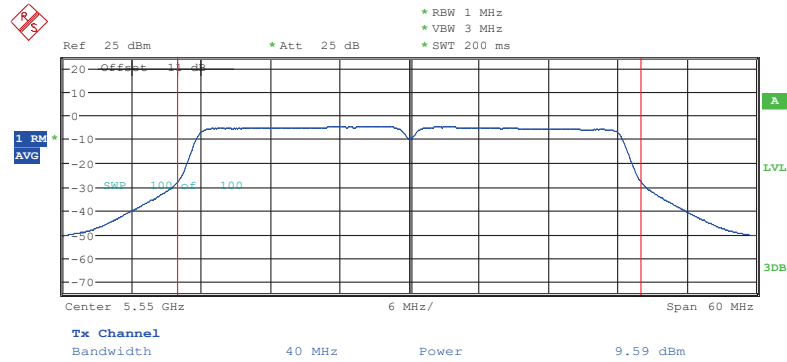


MAXIMUM CONDUCTED POWER ANT4_11n40CH102

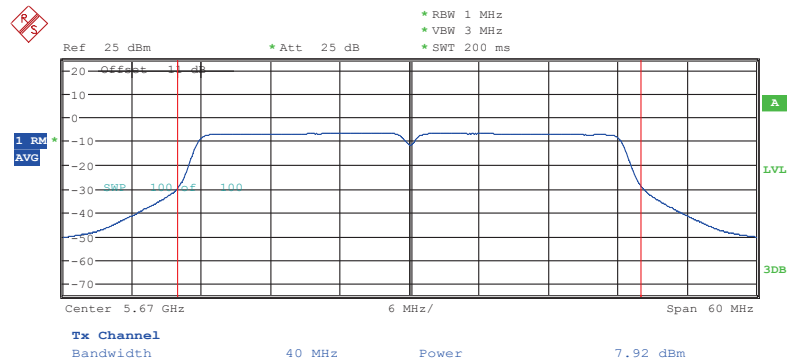
Date: 19.SEP.2022 20:33:19



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



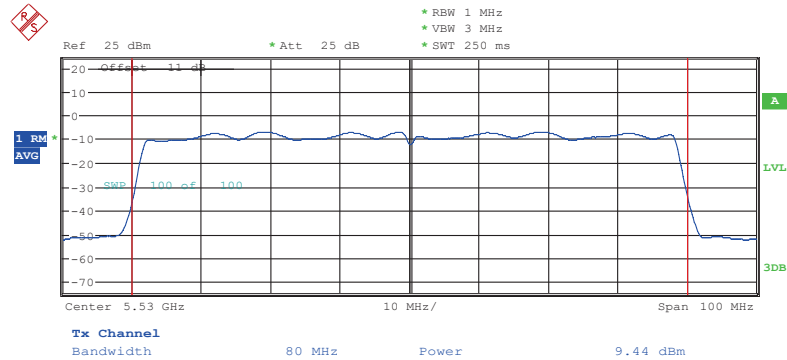
MAXIMUM CONDUCTED POWER ANT4_11n40CH110
Date: 19.SEP.2022 20:38:29



MAXIMUM CONDUCTED POWER ANT4_11n40CH134
Date: 19.SEP.2022 20:44:57

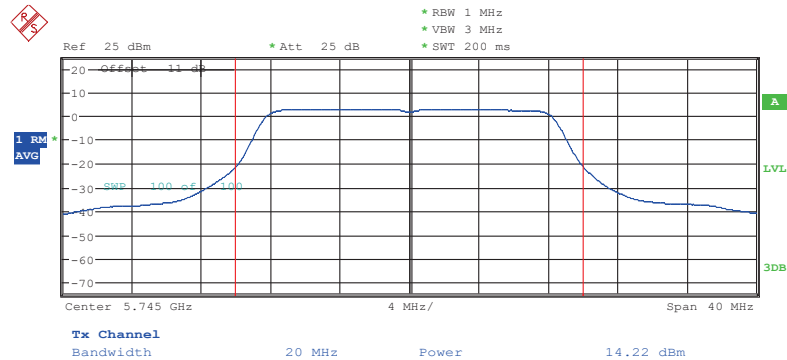


Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



MAXIMUM CONDUCTED POWER ANT4_11ac80CH106
Date: 19.SEP.2022 20:52:35

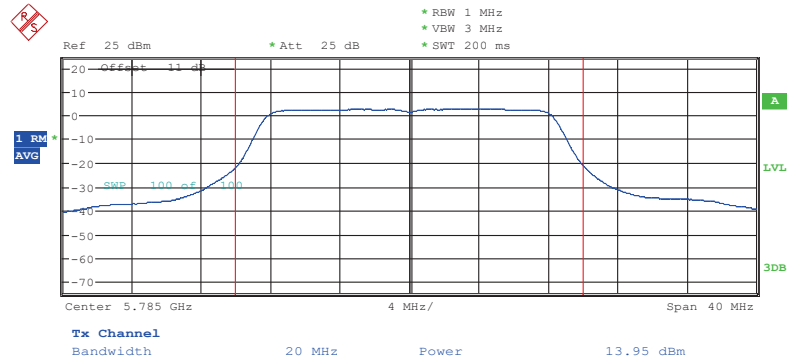
5.725 GHz ~ 5.85 GHz



MAXIMUM CONDUCTED POWER ANT4_11acH149
Date: 19.SEP.2022 21:01:49

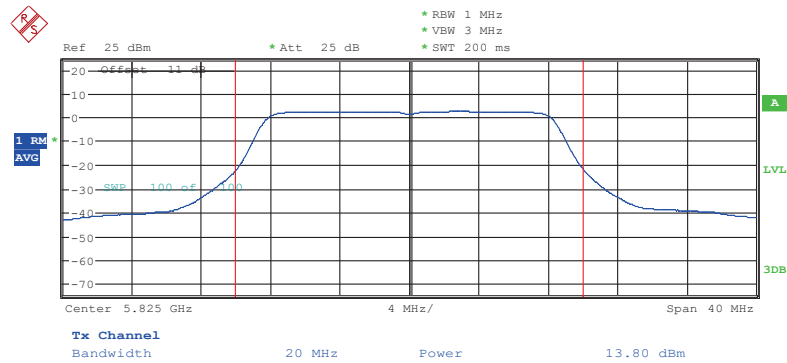


Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



MAXIMUM CONDUCTED POWER ANT4_11aCH157

Date: 19.SEP.2022 21:07:49



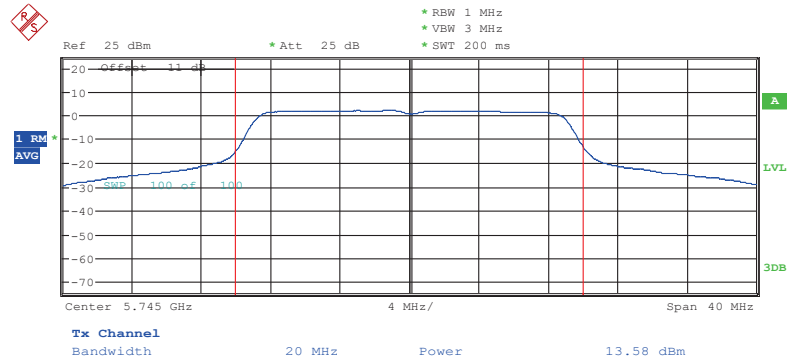
MAXIMUM CONDUCTED POWER ANT4_11aCH165

Date: 19.SEP.2022 21:14:29

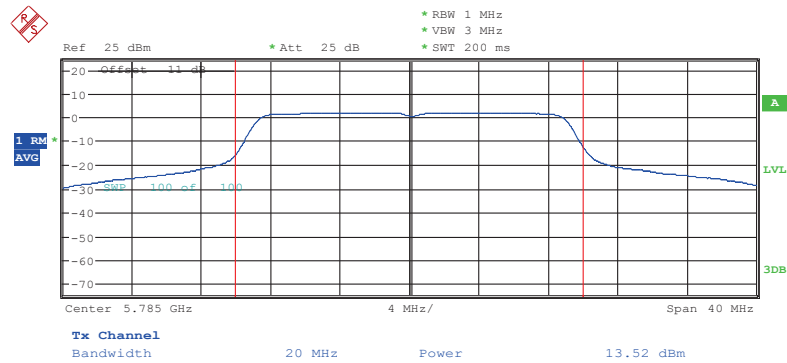


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



MAXIMUM CONDUCTED POWER ANT4_11n20CH149
Date: 19.SEP.2022 21:21:29

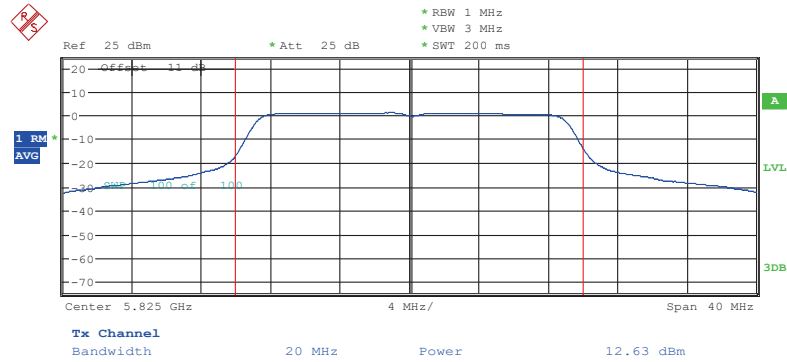


MAXIMUM CONDUCTED POWER ANT4_11n20CH157
Date: 19.SEP.2022 21:26:29

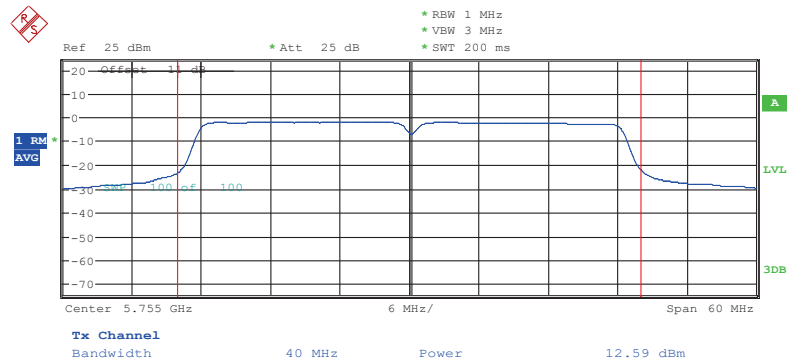


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



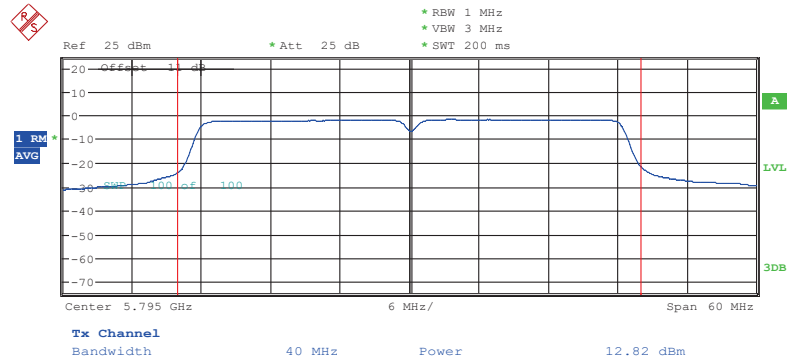
MAXIMUM CONDUCTED POWER ANT4_11n20CH165
Date: 19.SEP.2022 21:33:49



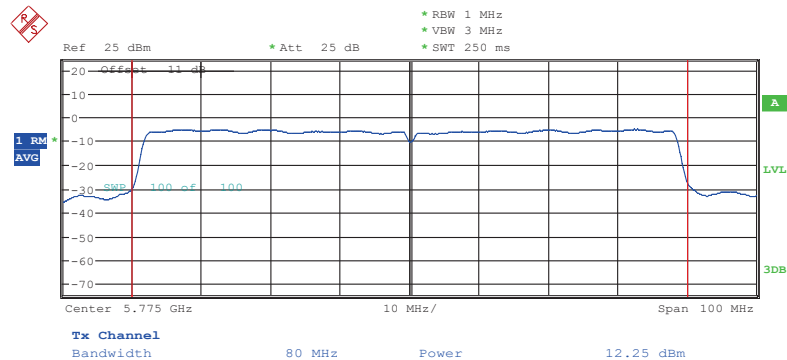
MAXIMUM CONDUCTED POWER ANT4_11n40CH151
Date: 19.SEP.2022 21:40:39



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



MAXIMUM CONDUCTED POWER ANT4_11n40CH159
Date: 19.SEP.2022 21:46:57



MAXIMUM CONDUCTED POWER ANT4_11ac80CH155
Date: 19.SEP.2022 21:55:28

Test equipment used: ETSTW-RE 055, ETSTW-RE 050



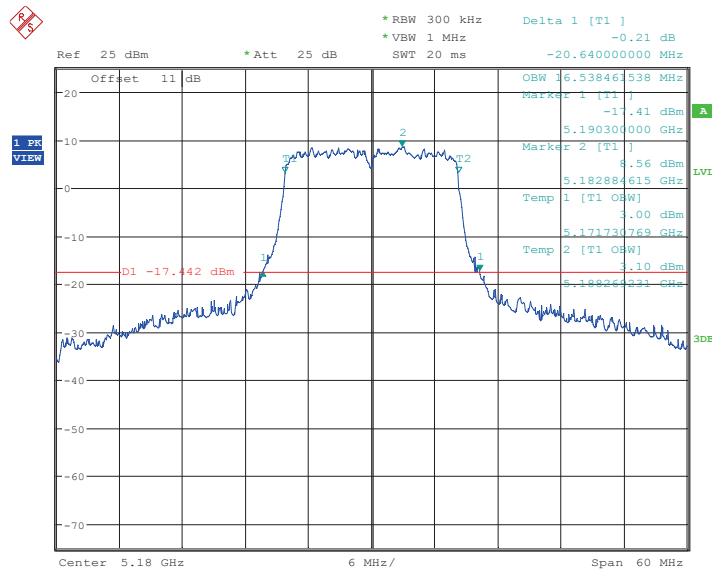
Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS

3.2 26dB emission bandwidth, 99% Occupied Bandwidth, FCC 15.407 (a)

According to §15.407(a). No Limit required.

Result:

ANT1
5.15 GHz ~ 5.25 GHz

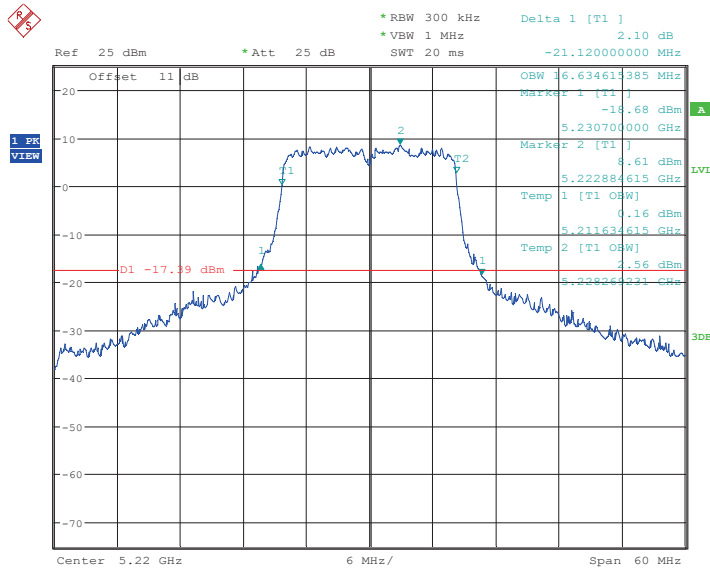


99% OBW & 26DB BANDWIDTH ANT1_11a_CH36
Date: 15.OCT.2019 21:00:40

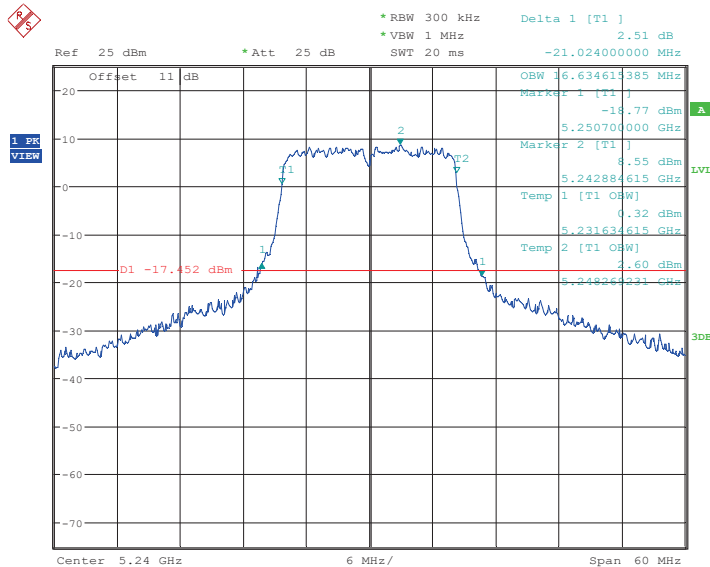


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



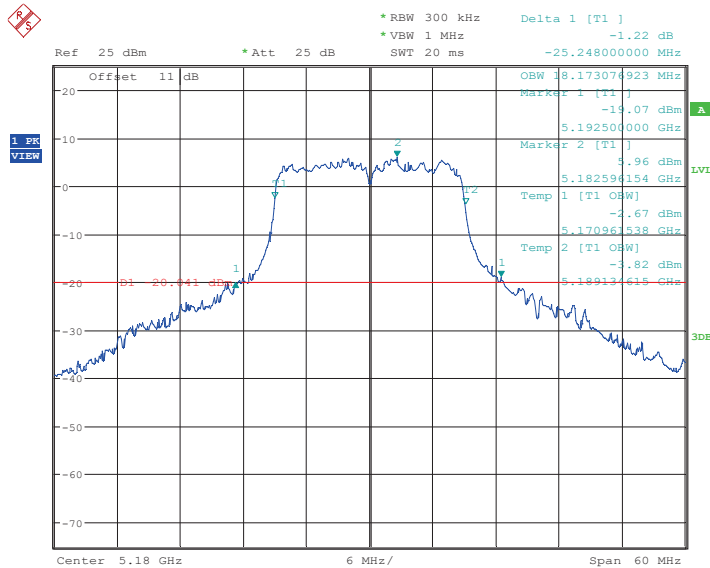
99% OBW & 26DB BANDWIDTH ANT1_11a_CH44
Date: 15.OCT.2019 21:07:44



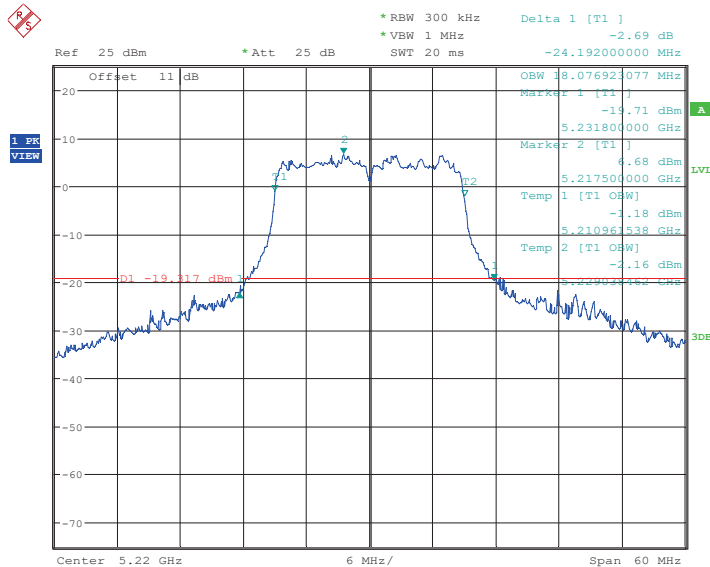
99% OBW & 26DB BANDWIDTH ANT1_11a_CH48
Date: 15.OCT.2019 21:14:09



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



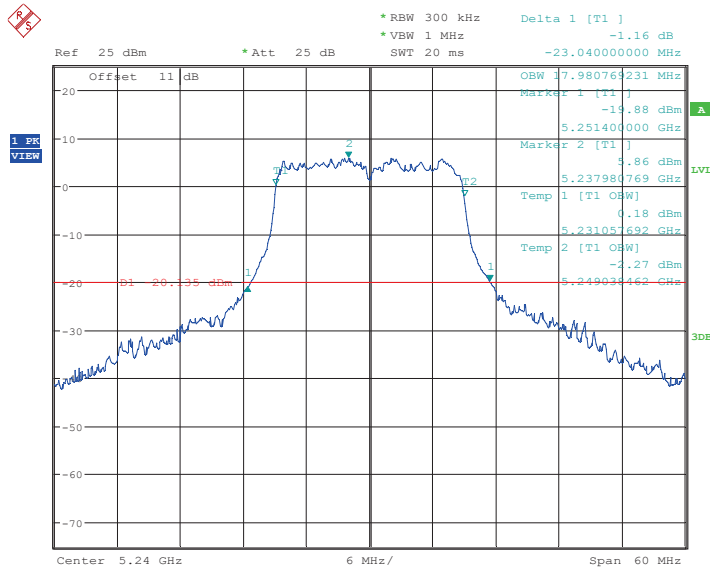
99% OBW & 26DB BANDWIDTH ANT1_11n20_CH36
Date: 16.OCT.2019 14:10:15



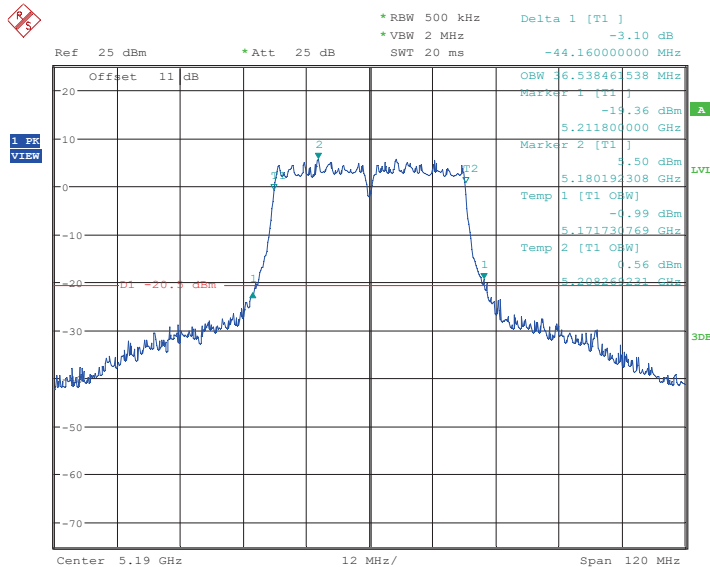
99% OBW & 26DB BANDWIDTH ANT1_11n20_CH44
Date: 16.OCT.2019 14:23:44



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



99% OBW & 26DB BANDWIDTH ANT1_11n20_CH48
Date: 16.OCT.2019 14:29:25

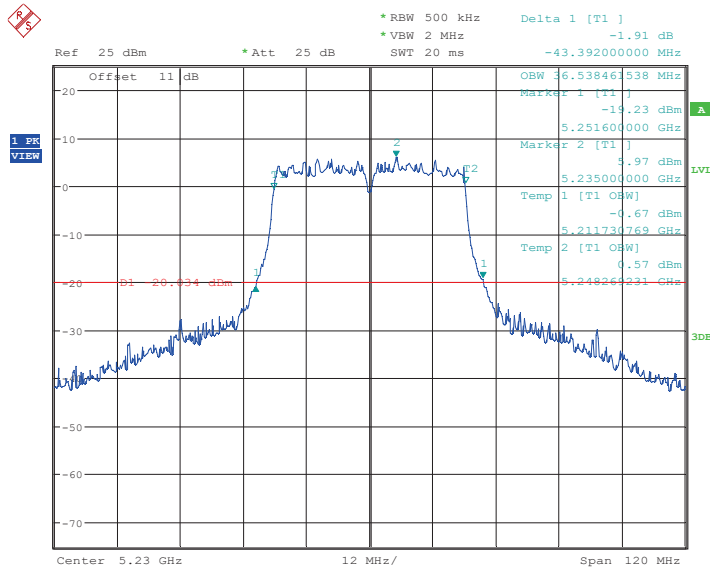


99% OBW & 26DB BANDWIDTH ANT1_11n40_CH38
Date: 16.OCT.2019 14:51:58

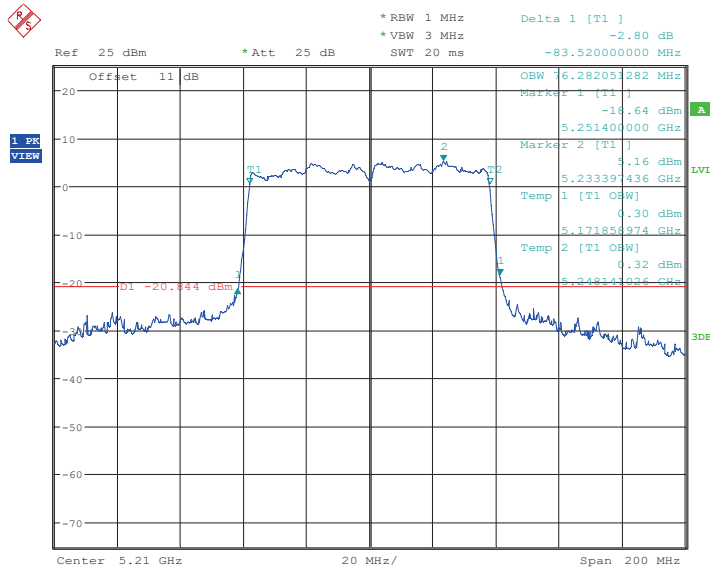


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



99% OBW & 26DB BANDWIDTH ANT1_11n40_CH46
Date: 16.OCT.2019 14:58:06



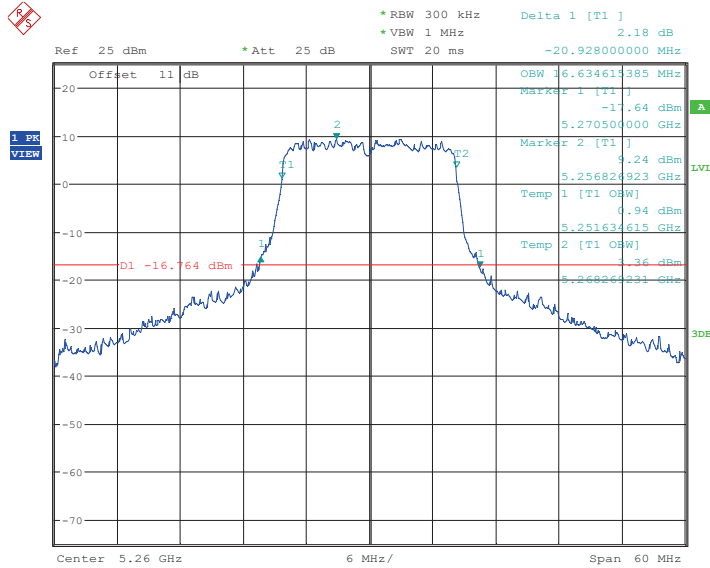
99% OBW & 26DB BANDWIDTH ANT1_11ac80_CH42
Date: 16.OCT.2019 15:08:06



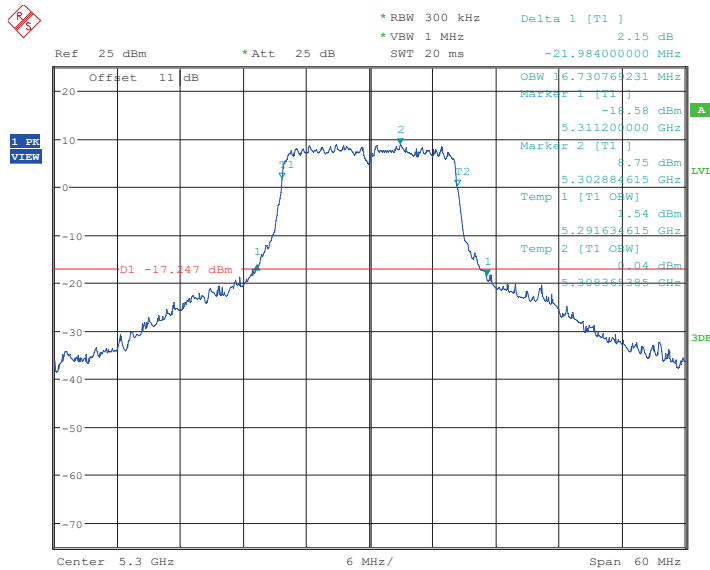
Registration number: W6R22002-19655-C-54-R2

FCC ID: W23-WMXWAVE2AS

5.25 GHz ~ 5.35 GHz



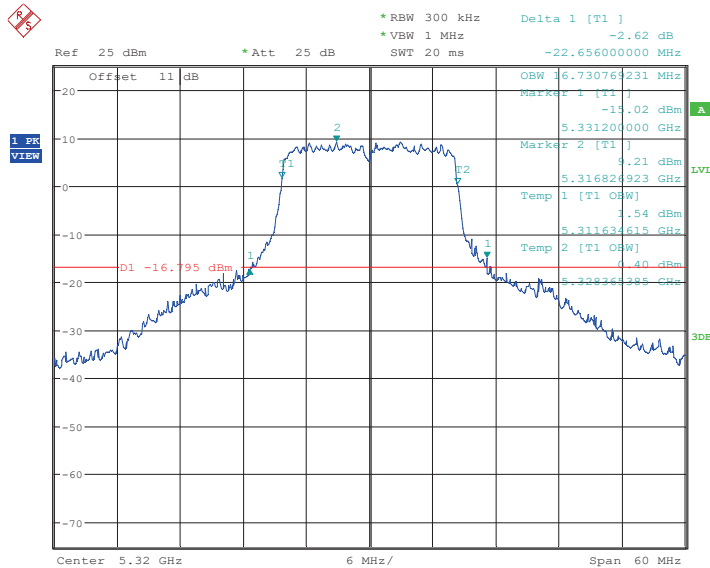
99% OBW & 26DB BANDWIDTH ANT1_11a_CH52
Date: 16.OCT.2019 15:27:26



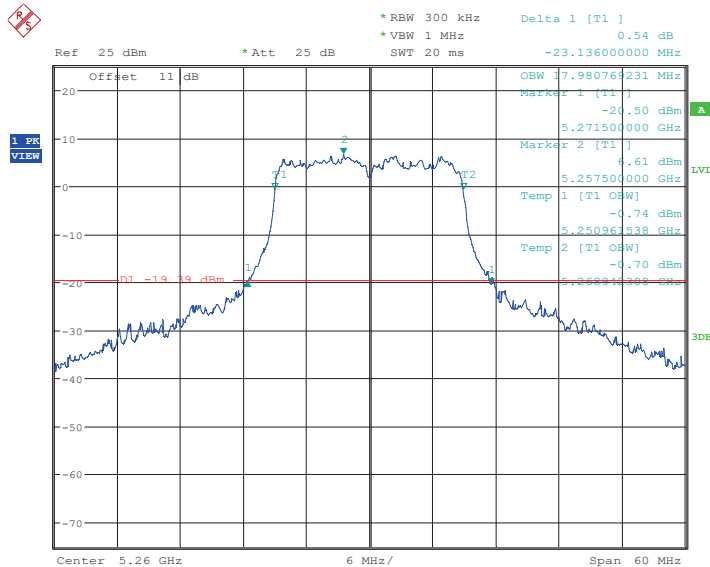
99% OBW & 26DB BANDWIDTH ANT1_11a_CH60
Date: 16.OCT.2019 15:33:51



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



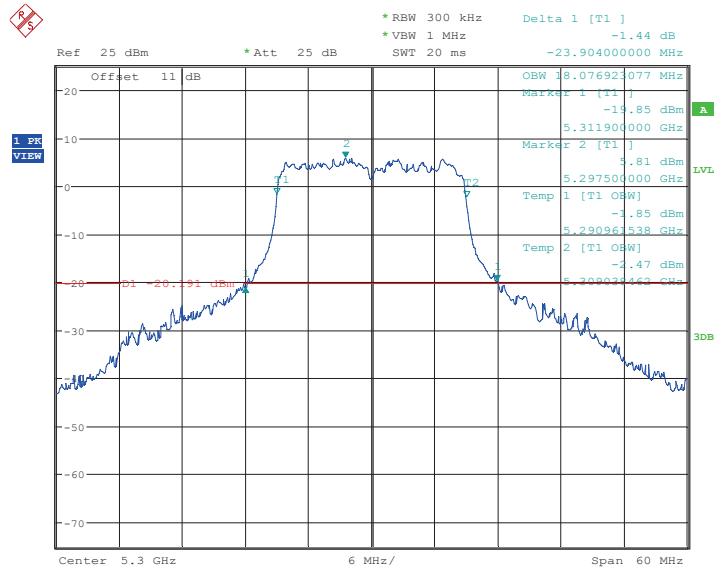
99% OBW & 26DB BANDWIDTH ANT1_11a_CH64
Date: 16.OCT.2019 15:40:22



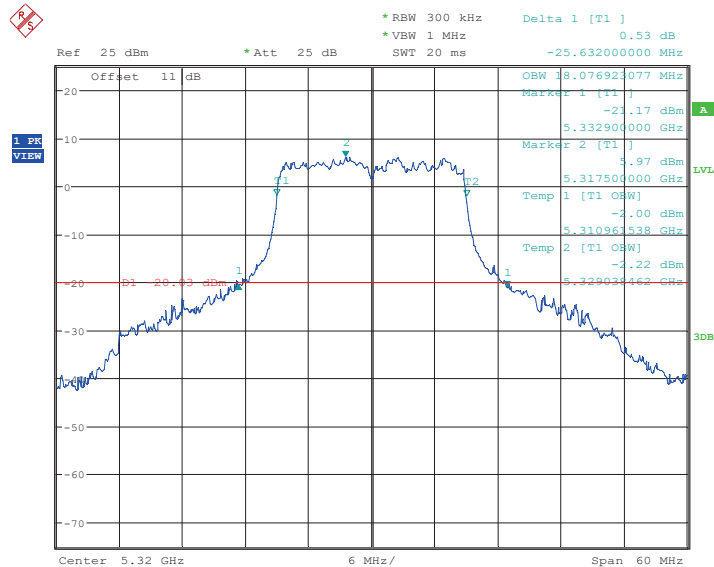
99% OBW & 26DB BANDWIDTH ANT1_11n20_CH52
Date: 16.OCT.2019 16:01:16



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



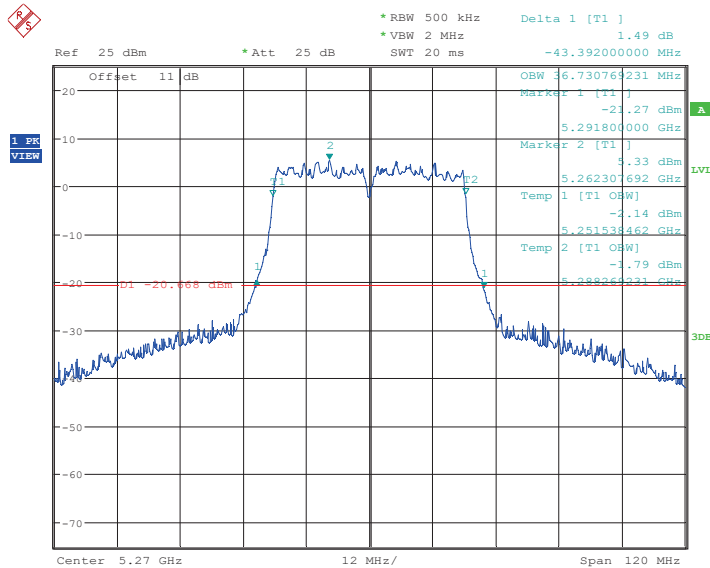
99% OBW & 26DB BANDWIDTH ANT1_11n20_CH60
Date: 16.OCT.2019 16:07:19



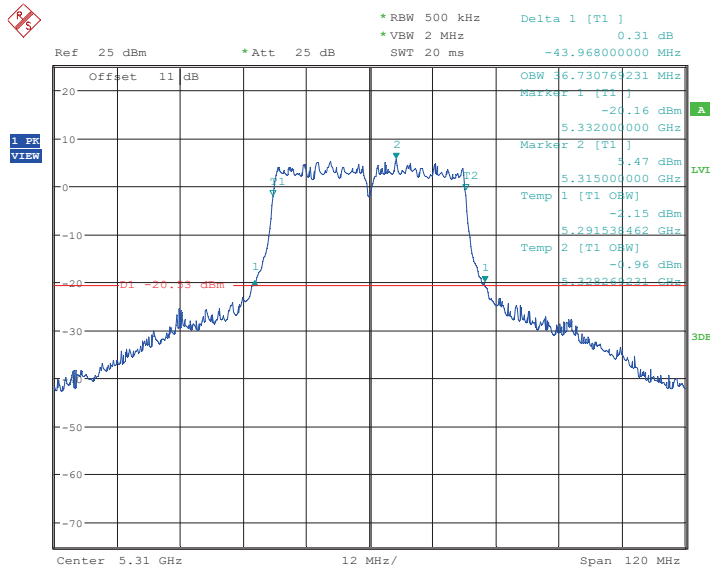
99% OBW & 26DB BANDWIDTH ANT1_11n20_CH64
Date: 16.OCT.2019 16:13:16



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



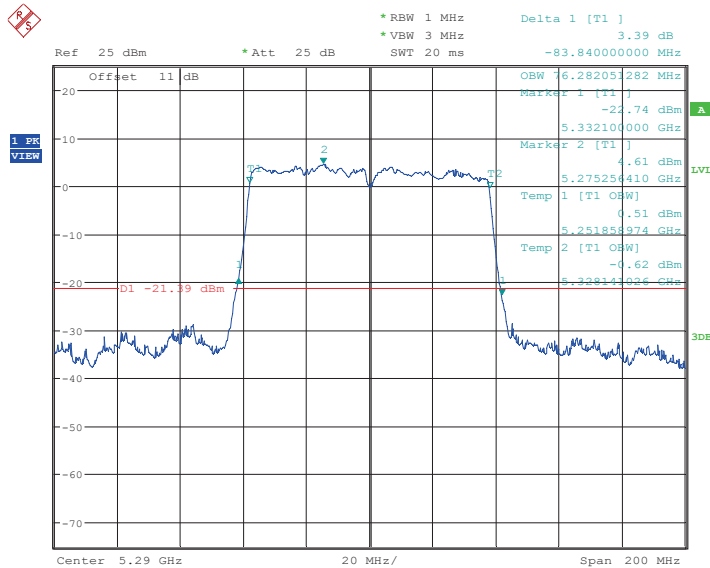
99% OBW & 26DB BANDWIDTH ANT1_11n40_CH54
Date: 16.OCT.2019 16:28:07



99% OBW & 26DB BANDWIDTH ANT1_11n40_CH62
Date: 16.OCT.2019 16:35:55

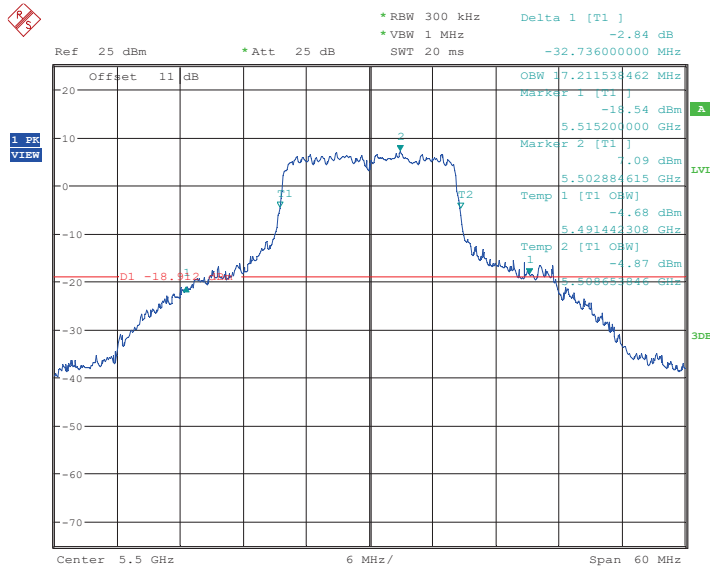


Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



99% OBW & 26DB BANDWIDTH ANT1_11ac80_CH58
Date: 16.OCT.2019 16:46:16

5.47 GHz ~ 5.725 GHz

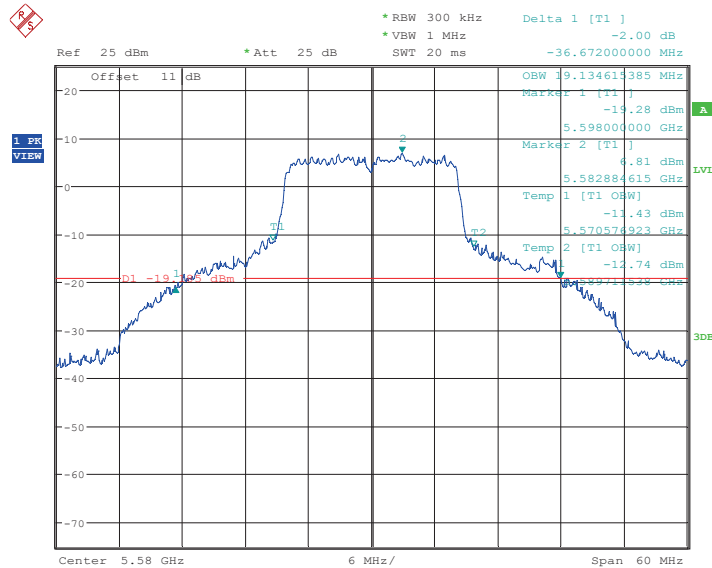


99% OBW & 26DB BANDWIDTH ANT1_11a_CH100
Date: 16.OCT.2019 17:16:20

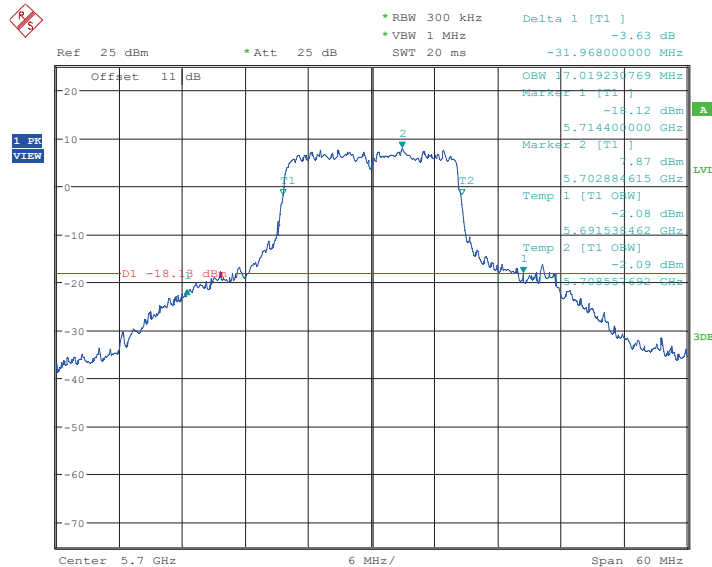


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Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



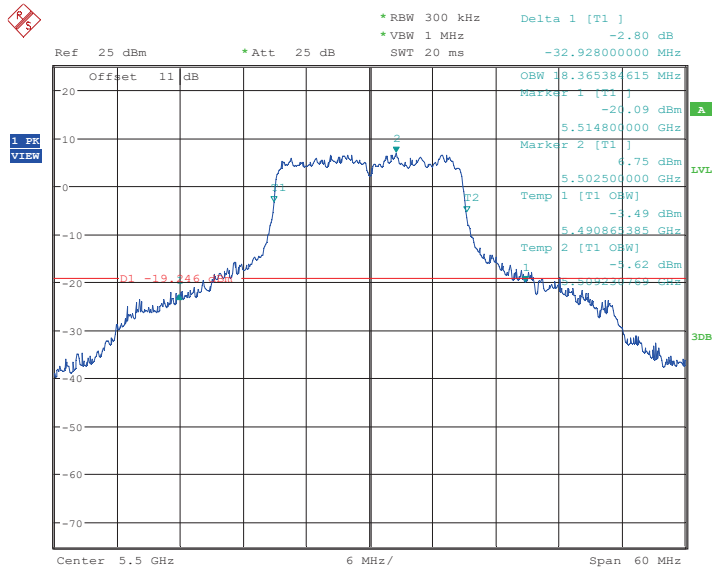
99% OBW & 26DB BANDWIDTH ANT1_11a_CH116
Date: 16.OCT.2019 17:22:51



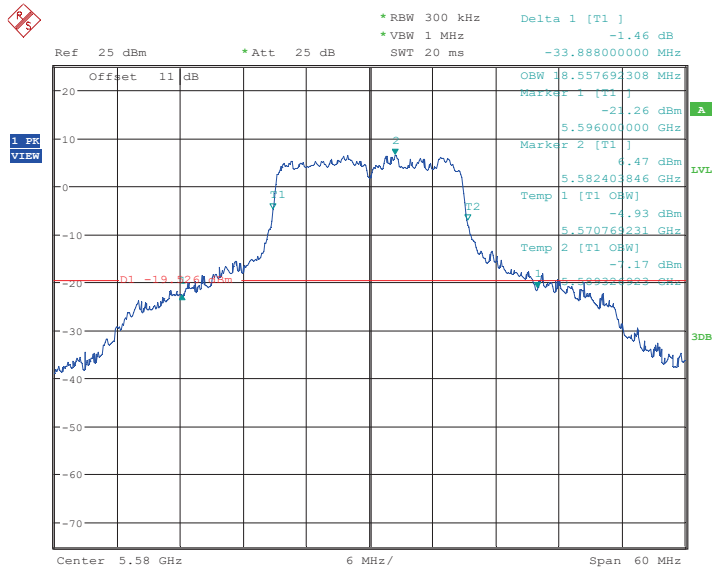
99% OBW & 26DB BANDWIDTH ANT1_11a_CH140
Date: 16.OCT.2019 19:23:12



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



99% OBW & 26DB BANDWIDTH ANT1_11n20_CH100
Date: 16.OCT.2019 19:49:09

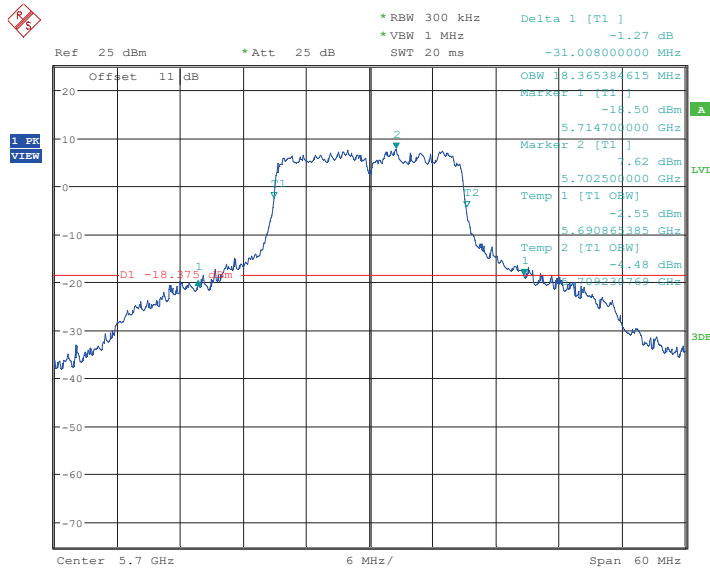


99% OBW & 26DB BANDWIDTH ANT1_11n20_CH116
Date: 16.OCT.2019 19:55:39

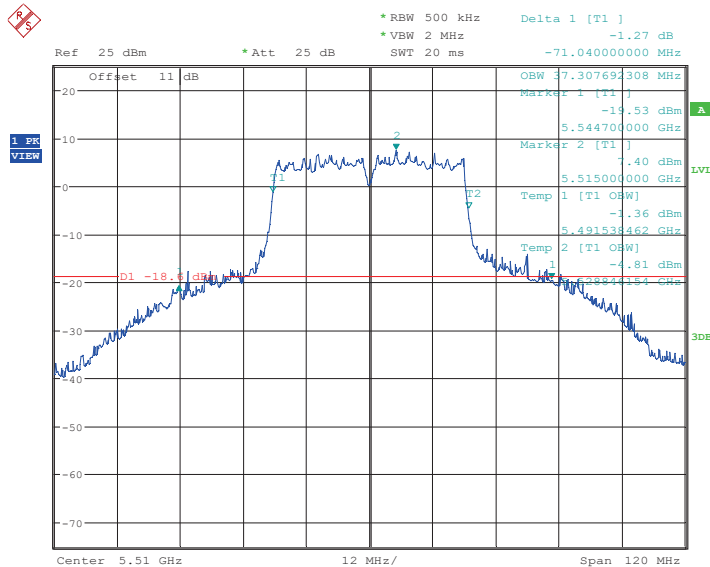


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



99% OBW & 26DB BANDWIDTH ANT1_11n20_CH140
Date: 16.OCT.2019 20:01:26

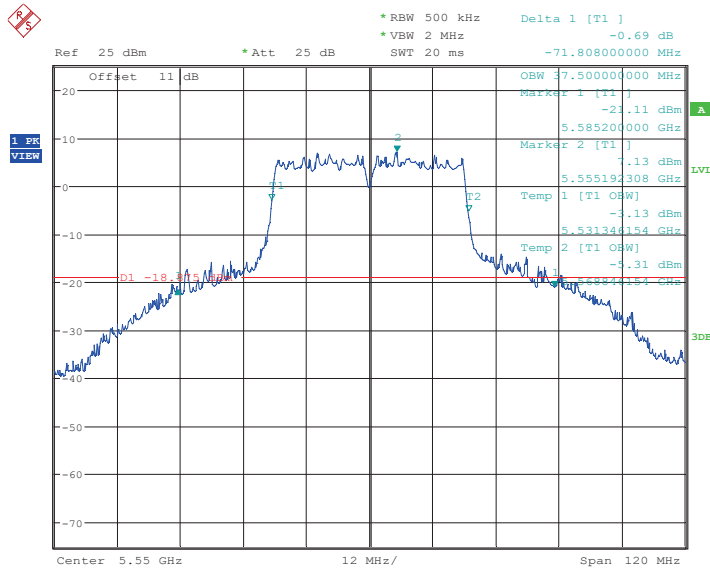


99% OBW & 26DB BANDWIDTH ANT1_11n40_CH102
Date: 16.OCT.2019 20:19:46

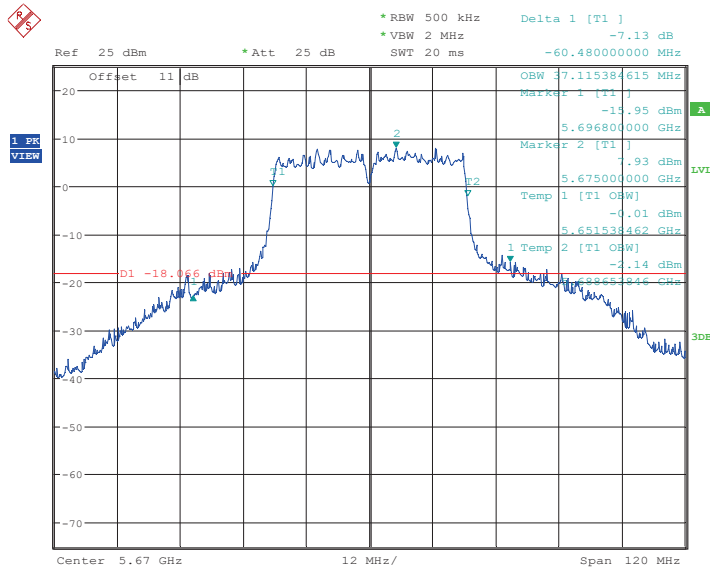


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



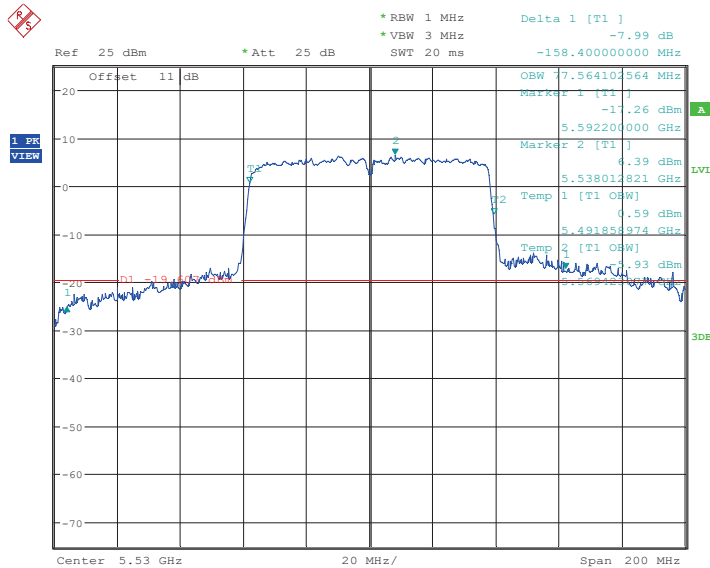
99% OBW & 26DB BANDWIDTH ANT1_11n40_CH110
Date: 16.OCT.2019 20:26:22



99% OBW & 26DB BANDWIDTH ANT1_11n40_CH134
Date: 16.OCT.2019 20:32:36

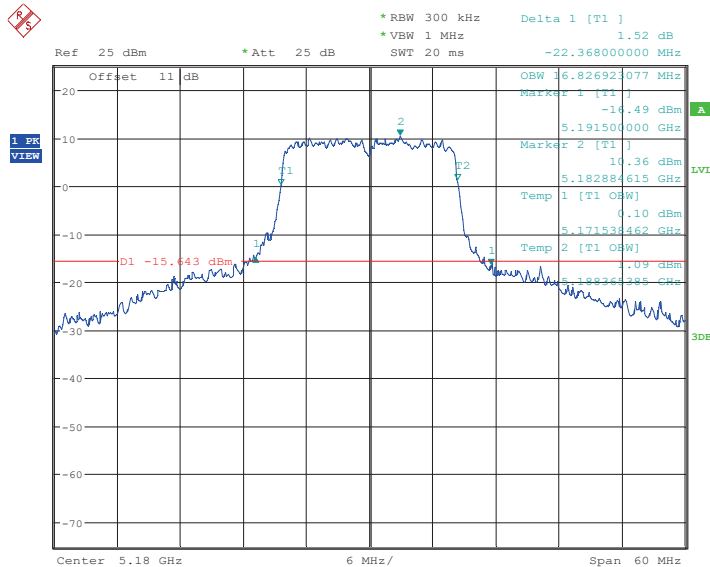


Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



99% OBW & 26DB BANDWIDTH ANT1_11ac80_CH106
Date: 16.OCT.2019 20:44:20

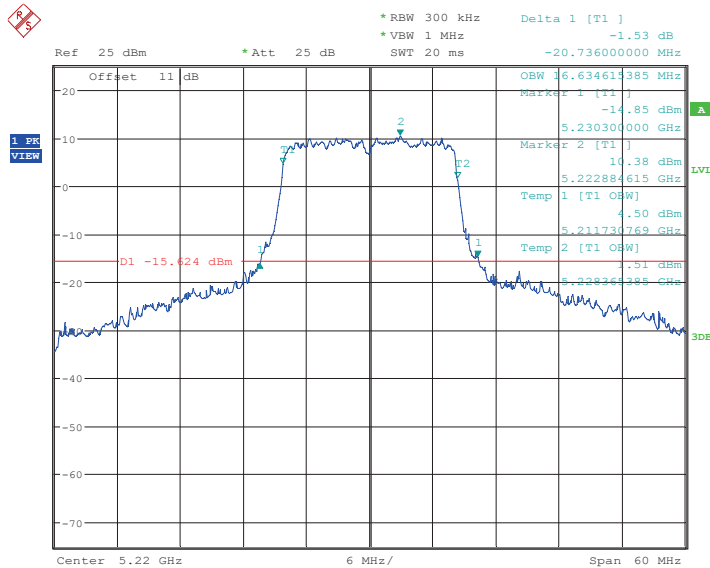
ANT2 5.15 GHz ~ 5.25 GHz



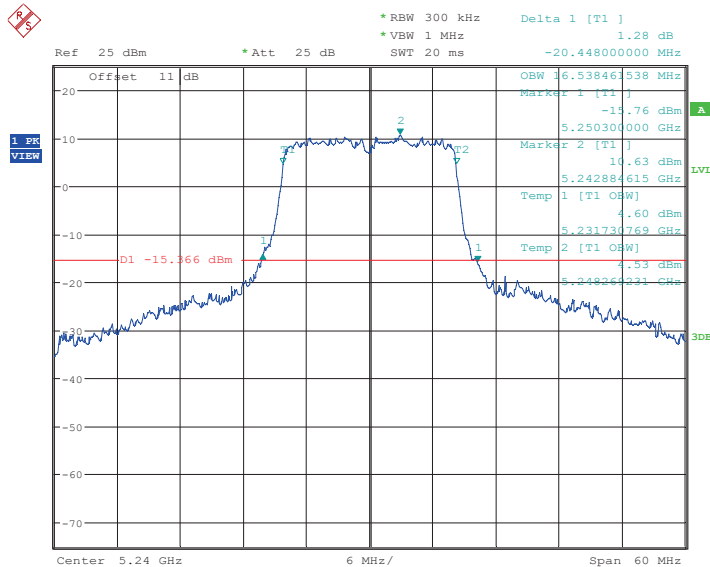
99% OBW & 26DB BANDWIDTH ANT2_11a_CH36
Date: 15.OCT.2019 21:02:14



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



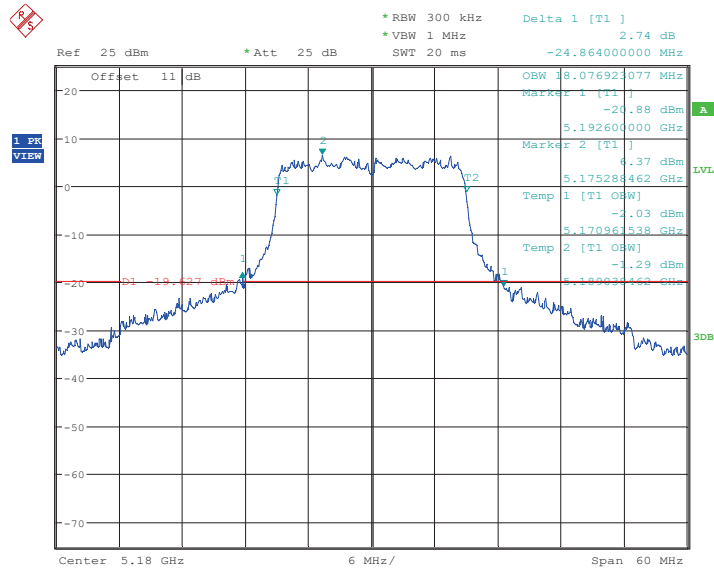
99% OBW & 26DB BANDWIDTH ANT2_11a_CH44
Date: 15.OCT.2019 21:09:12



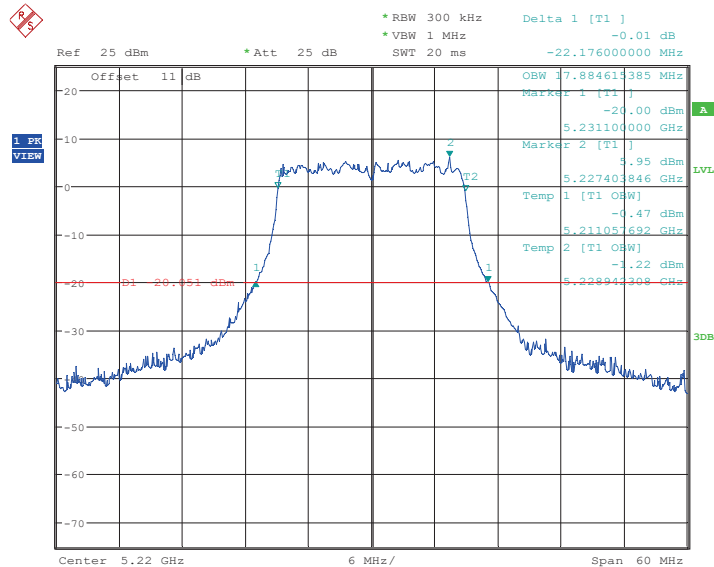
99% OBW & 26DB BANDWIDTH ANT2_11a_CH48
Date: 15.OCT.2019 21:15:37



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



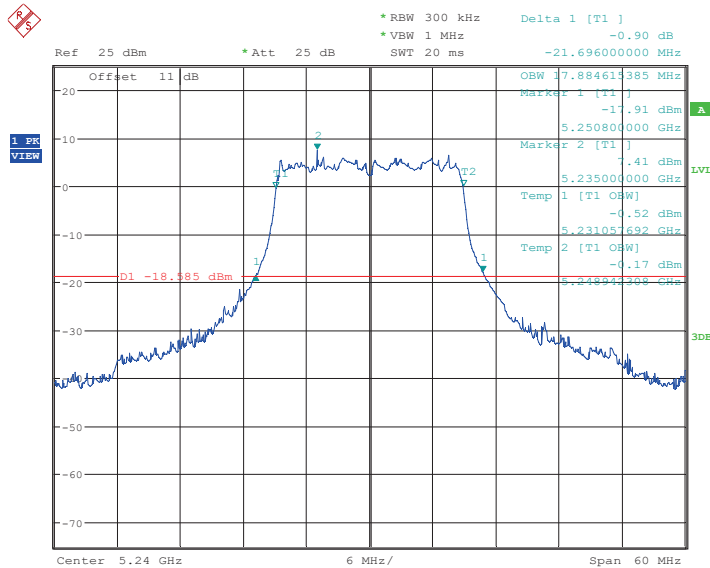
99% OBW & 26DB BANDWIDTH ANT2_11n20_CH36
Date: 16.OCT.2019 14:11:32



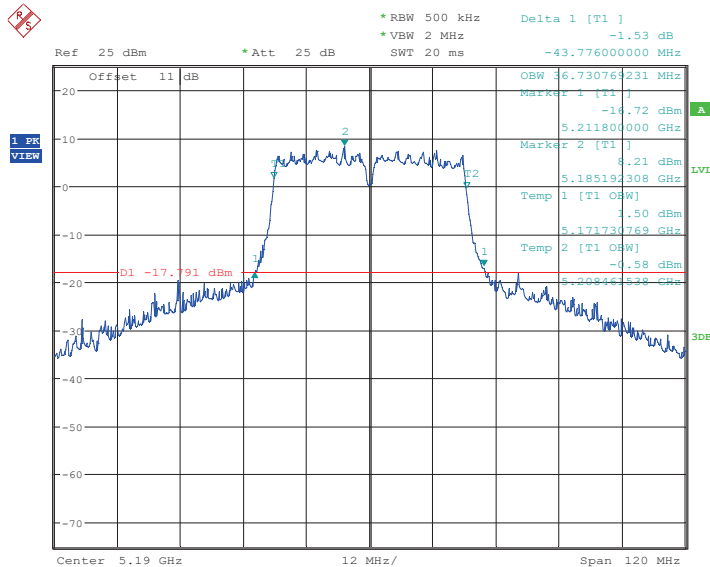
99% OBW & 26DB BANDWIDTH ANT2_11n20_CH44
Date: 16.OCT.2019 14:24:55



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



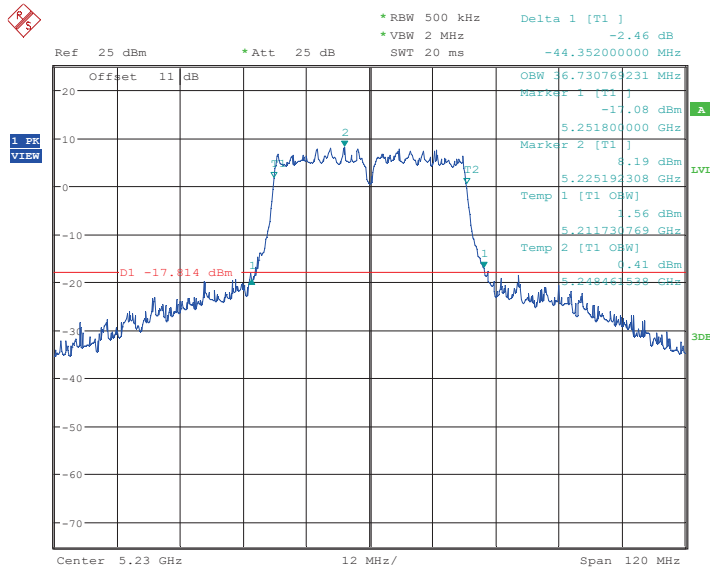
99% OBW & 26DB BANDWIDTH ANT2_11n20_CH48
Date: 16.OCT.2019 14:30:42



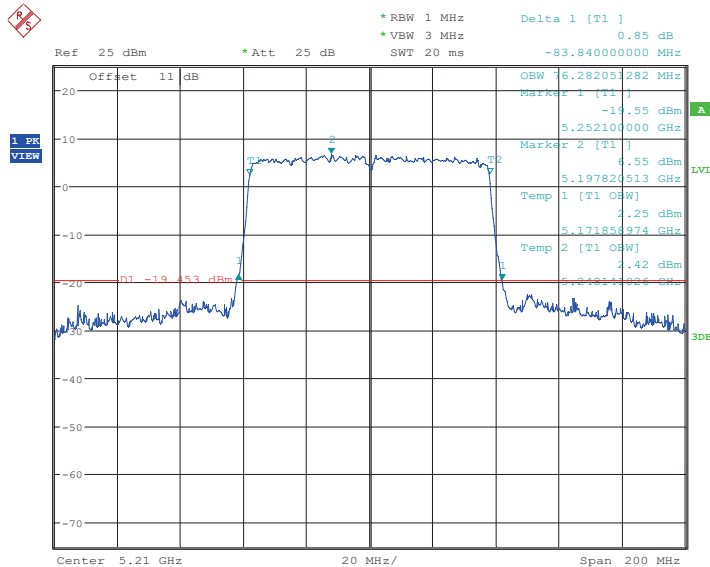
99% OBW & 26DB BANDWIDTH ANT2_11n40_CH38
Date: 16.OCT.2019 14:53:20



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



99% OBW & 26DB BANDWIDTH ANT2_11n40_CH46
Date: 16.OCT.2019 14:59:29

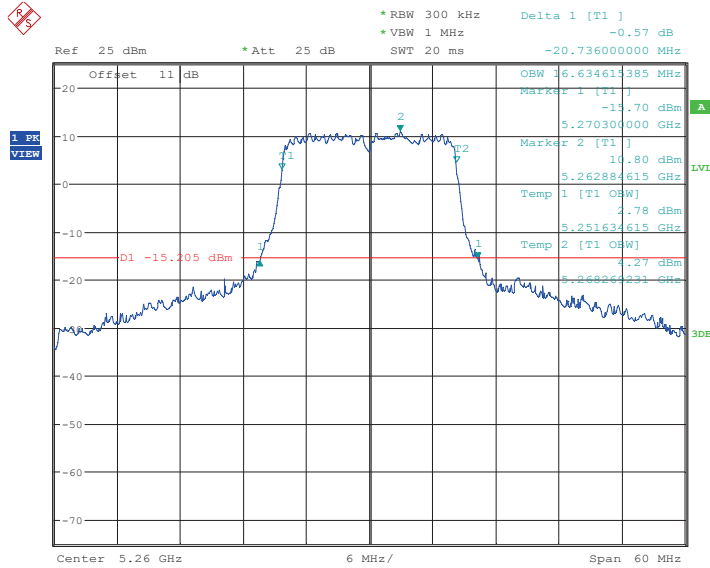


99% OBW & 26DB BANDWIDTH ANT2_11ac80_CH42
Date: 16.OCT.2019 15:10:18

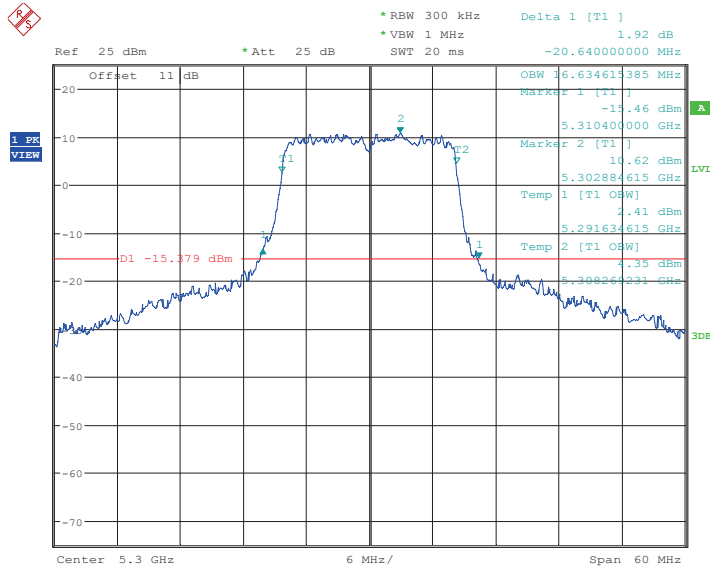


Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS

5.25 GHz ~ 5.35 GHz



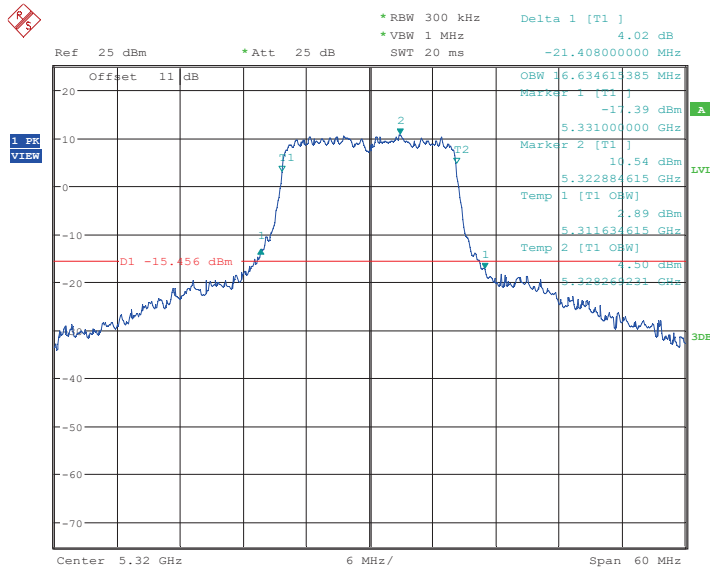
99% OBW & 26DB BANDWIDTH ANT2_11a_CH52
Date: 16.OCT.2019 15:28:54



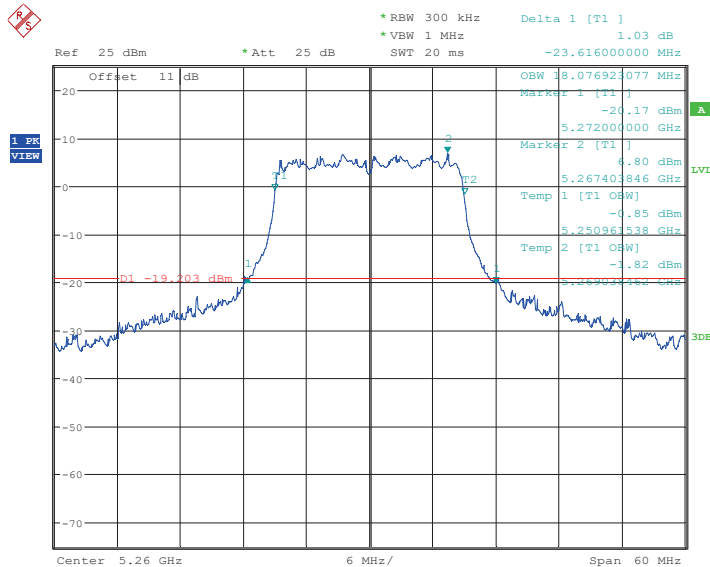
99% OBW & 26DB BANDWIDTH ANT2_11a_CH60
Date: 16.OCT.2019 15:35:19



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



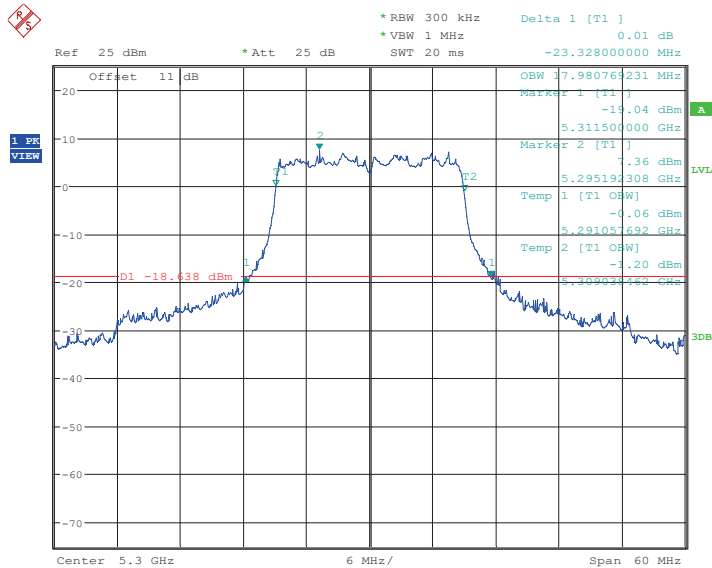
99% OBW & 26DB BANDWIDTH ANT2_11a_CH64
Date: 16.OCT.2019 15:41:44



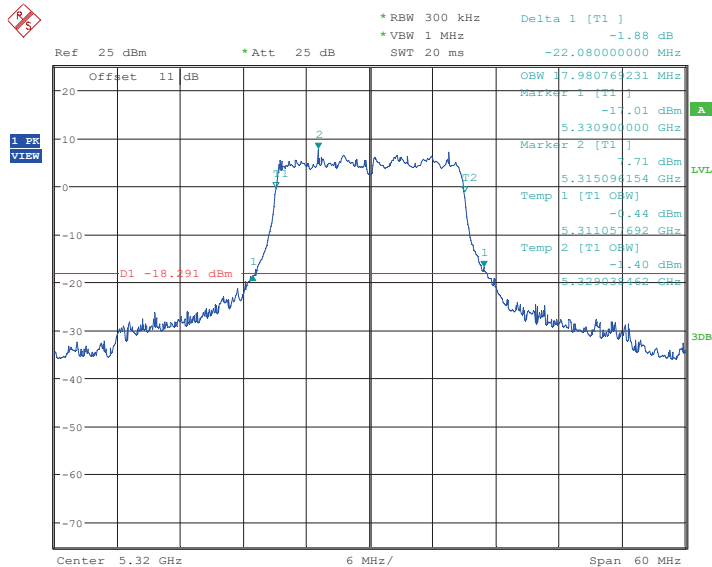
99% OBW & 26DB BANDWIDTH ANT2_11n20_CH52
Date: 16.OCT.2019 16:02:38



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



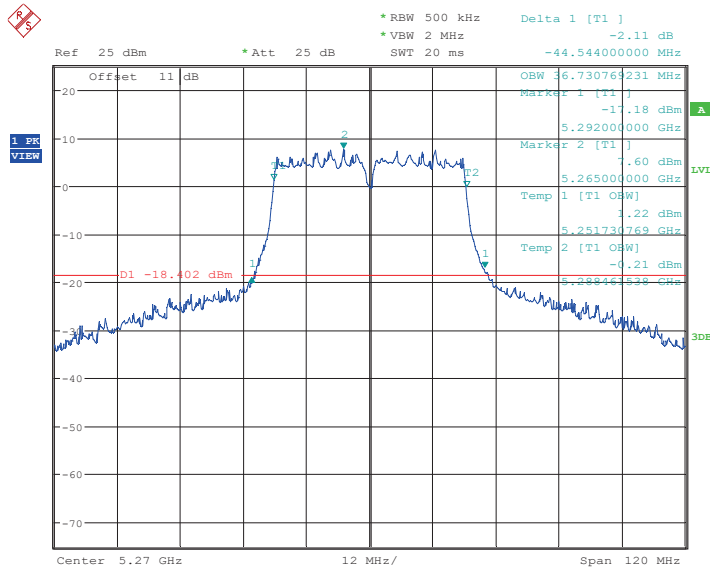
99% OBW & 26DB BANDWIDTH ANT2_11n20_CH60
Date: 16.OCT.2019 16:08:30



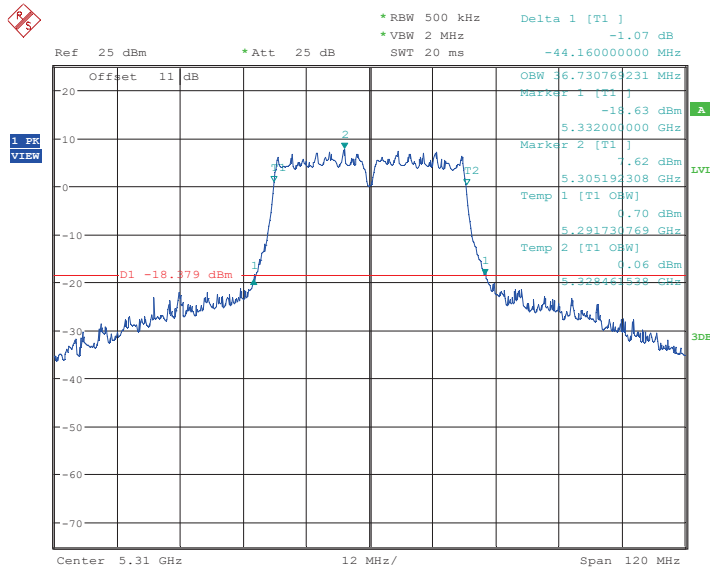
99% OBW & 26DB BANDWIDTH ANT2_11n20_CH64
Date: 16.OCT.2019 16:14:39



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



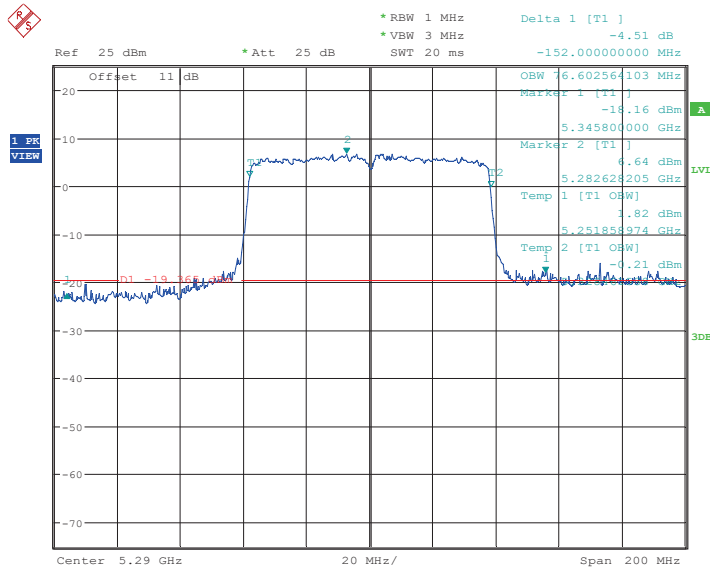
99% OBW & 26DB BANDWIDTH ANT2_11n40_CH54
Date: 16.OCT.2019 16:29:24



99% OBW & 26DB BANDWIDTH ANT2_11n40_CH62
Date: 16.OCT.2019 16:37:23

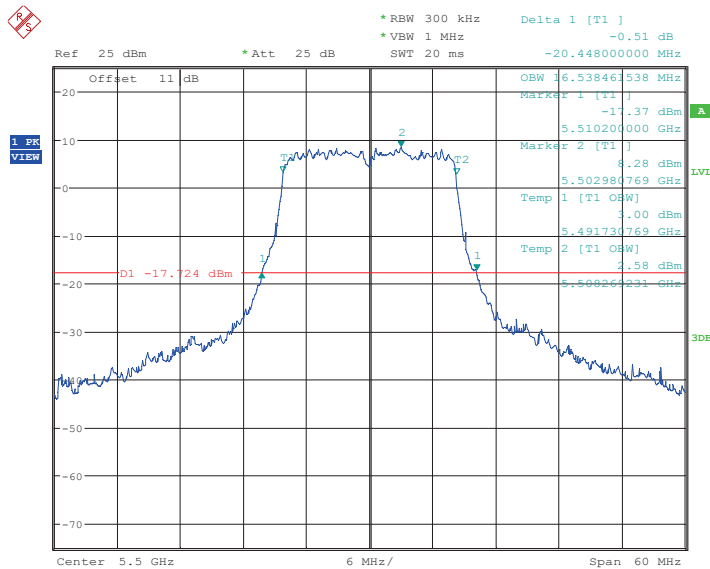


Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



99% OBW & 26DB BANDWIDTH ANT2_11ac80_CH58
Date: 16.OCT.2019 16:50:07

5.47 GHz ~ 5.725 GHz

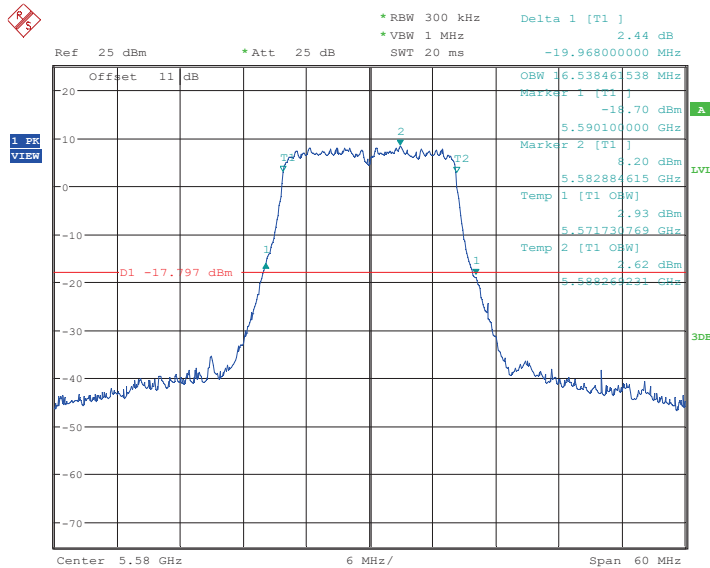


99% OBW & 26DB BANDWIDTH ANT2_11a_CH100
Date: 16.OCT.2019 17:17:48

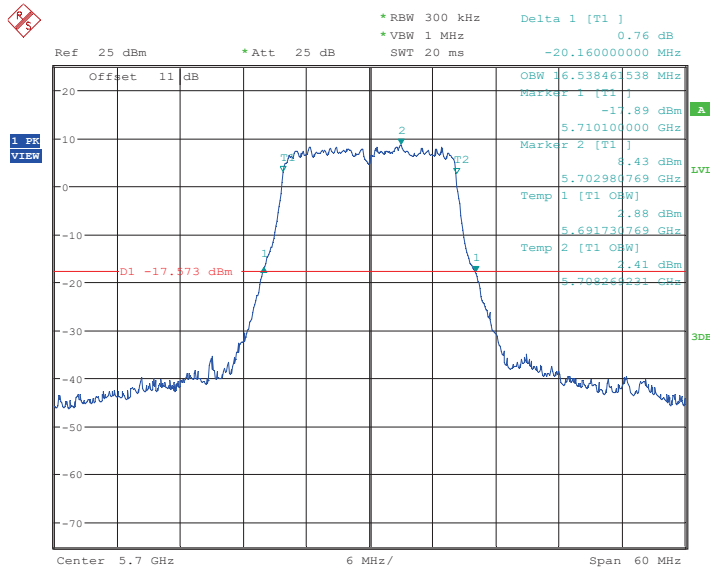


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



99% OBW & 26DB BANDWIDTH ANT2_11a_CH116
Date: 16.OCT.2019 19:17:48

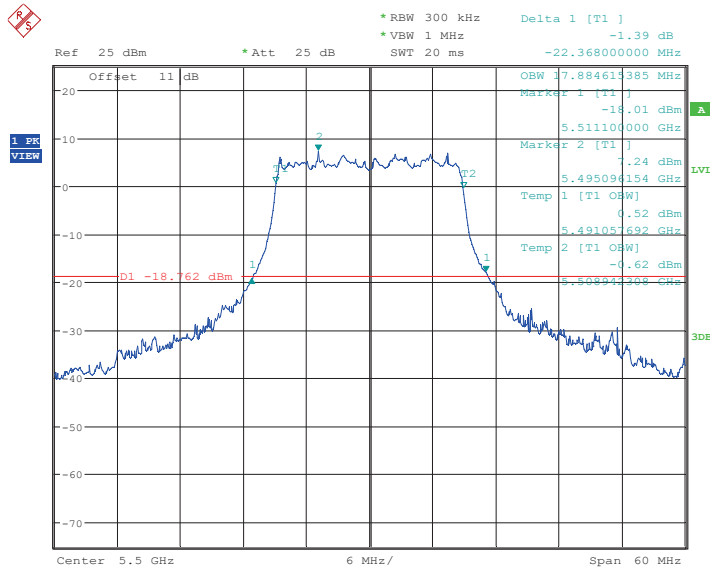


99% OBW & 26DB BANDWIDTH ANT2_11a_CH140
Date: 16.OCT.2019 19:24:40

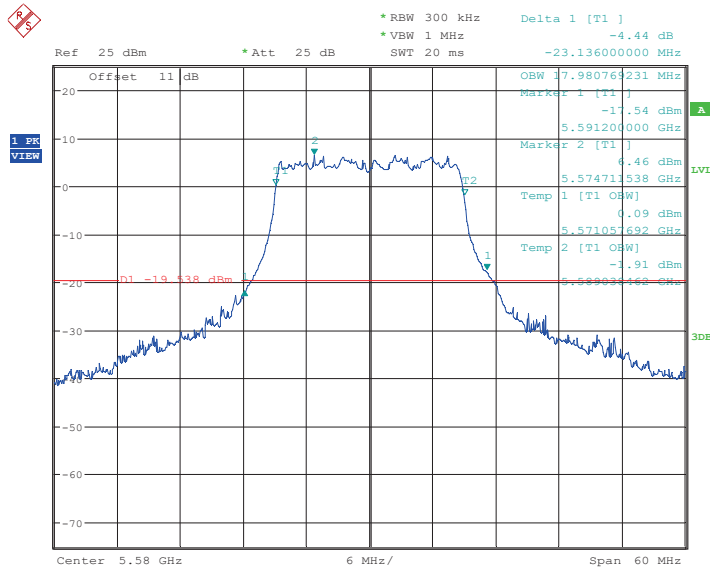


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



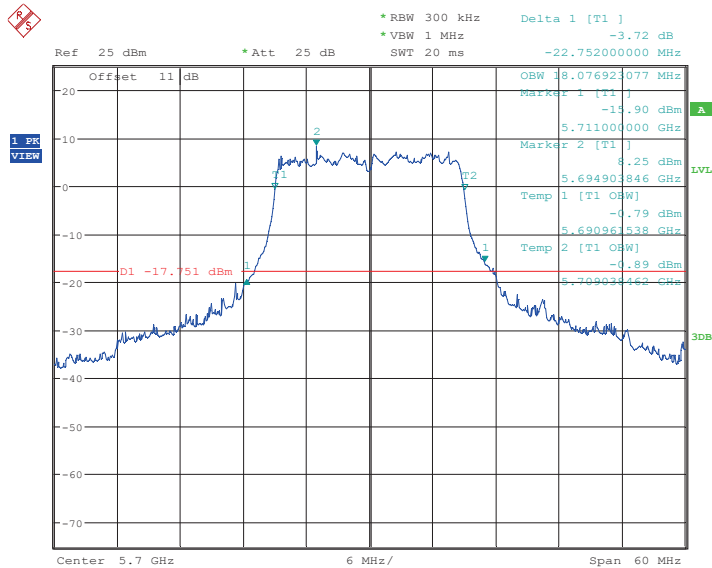
99% OBW & 26DB BANDWIDTH ANT2_11n20_CH100
Date: 16.OCT.2019 19:50:31



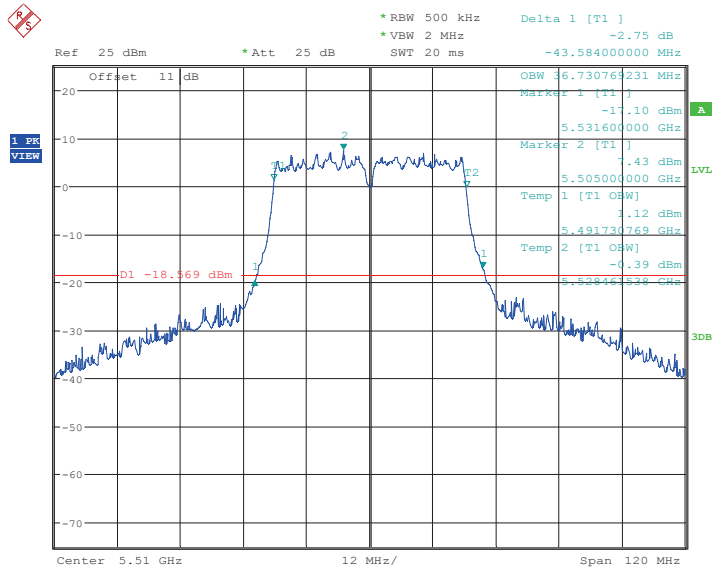
99% OBW & 26DB BANDWIDTH ANT2_11n20_CH116
Date: 16.OCT.2019 19:57:07



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



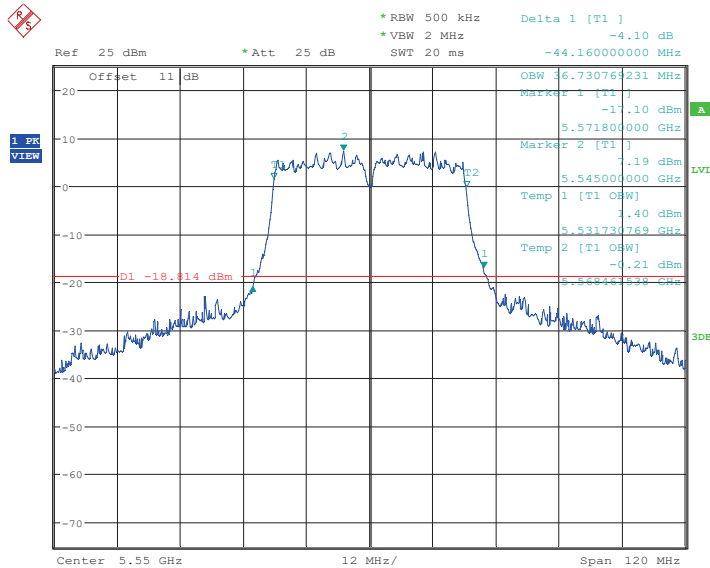
99% OBW & 26DB BANDWIDTH ANT2_11n20_CH140
Date: 16.OCT.2019 20:02:37



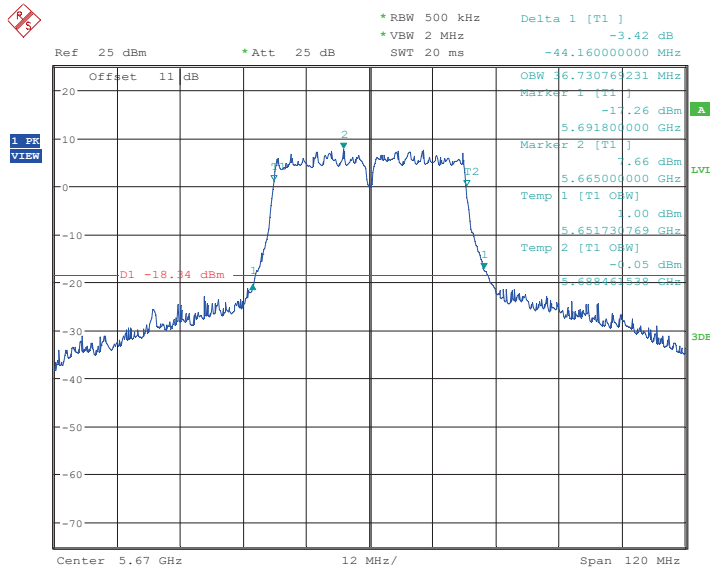
99% OBW & 26DB BANDWIDTH ANT2_11n40_CH102
Date: 16.OCT.2019 20:20:57



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



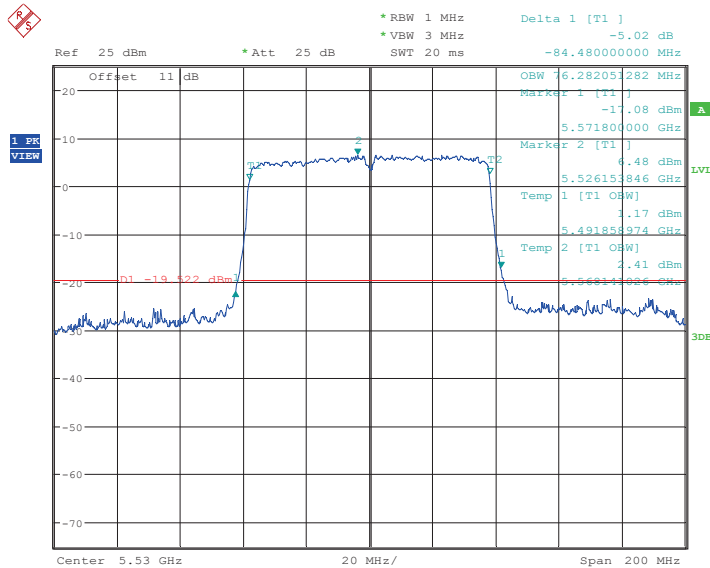
99% OBW & 26DB BANDWIDTH ANT2_11n40_CH110
Date: 16.OCT.2019 20:27:44



99% OBW & 26DB BANDWIDTH ANT2_11n40_CH134
Date: 16.OCT.2019 20:35:43

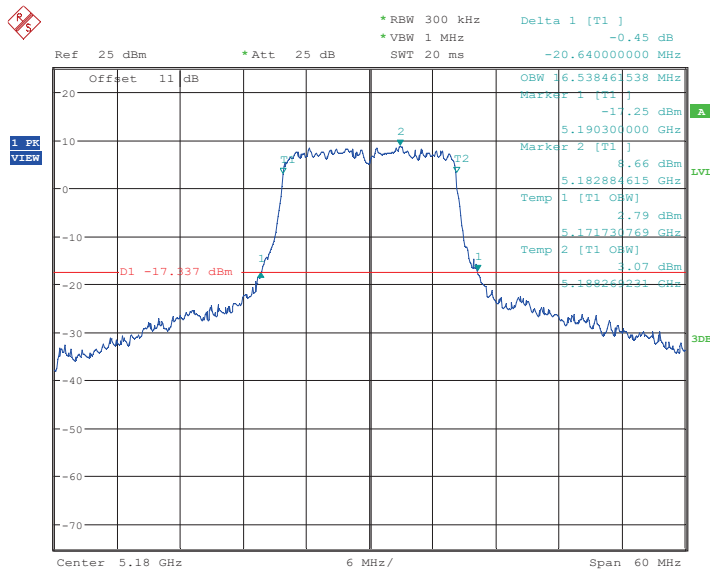


Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



99% OBW & 26DB BANDWIDTH ANT2_11ac80_CH106
Date: 16.OCT.2019 20:46:43

ANT3 5.15 GHz ~ 5.25 GHz

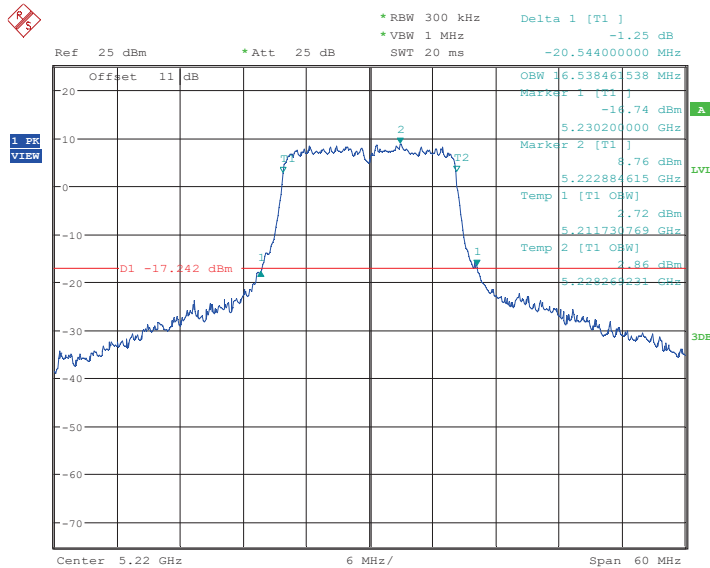


99% OBW & 26DB BANDWIDTH ANT3_11a_CH36
Date: 15.OCT.2019 21:03:42

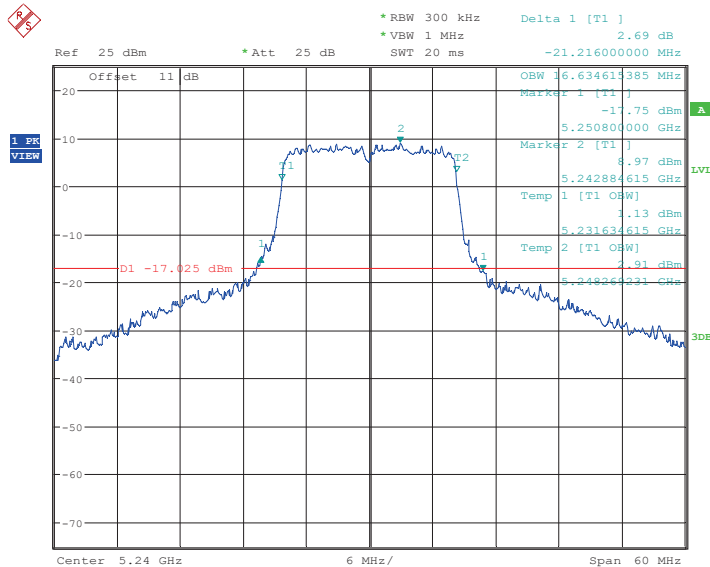


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



99% OBW & 26DB BANDWIDTH ANT3_11a_CH44
Date: 15.OCT.2019 21:10:35

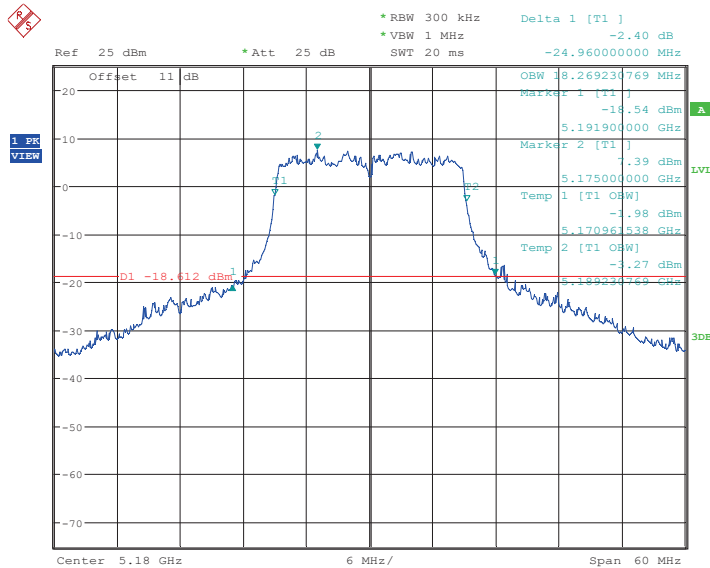


99% OBW & 26DB BANDWIDTH ANT3_11a_CH48
Date: 15.OCT.2019 21:17:00

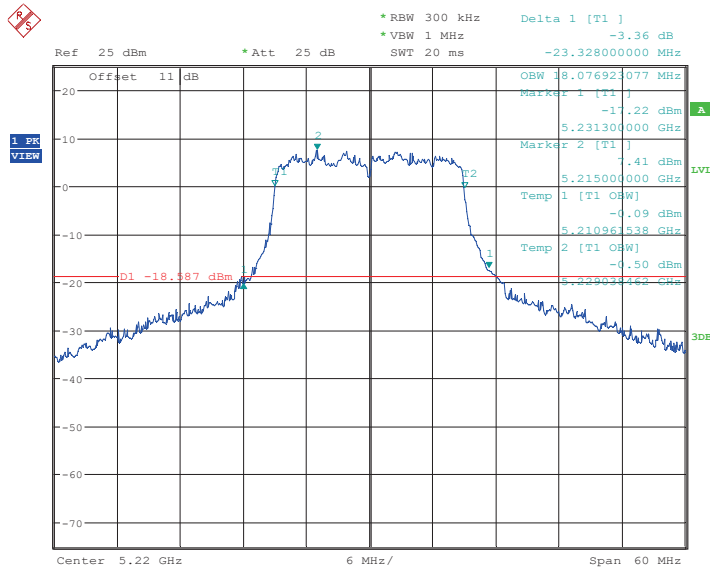


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



99% OBW & 26DB BANDWIDTH ANT3_11n20_CH36
Date: 16.OCT.2019 14:12:49

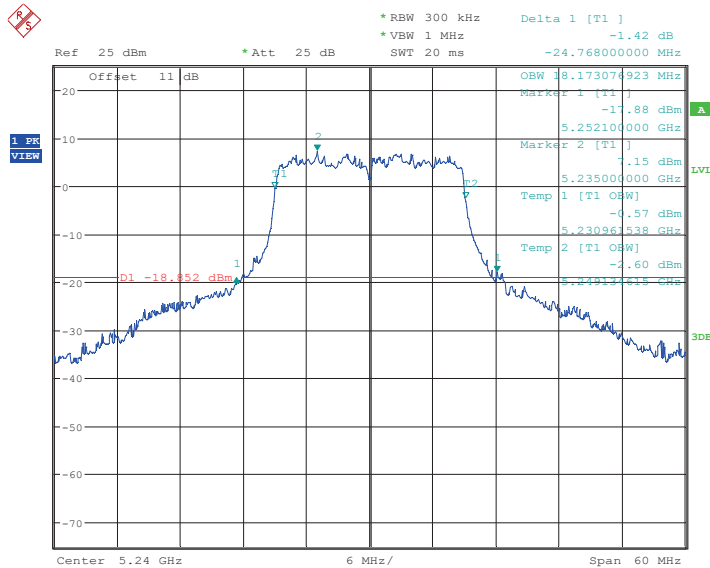


99% OBW & 26DB BANDWIDTH ANT3_11n20_CH44
Date: 16.OCT.2019 14:43:43

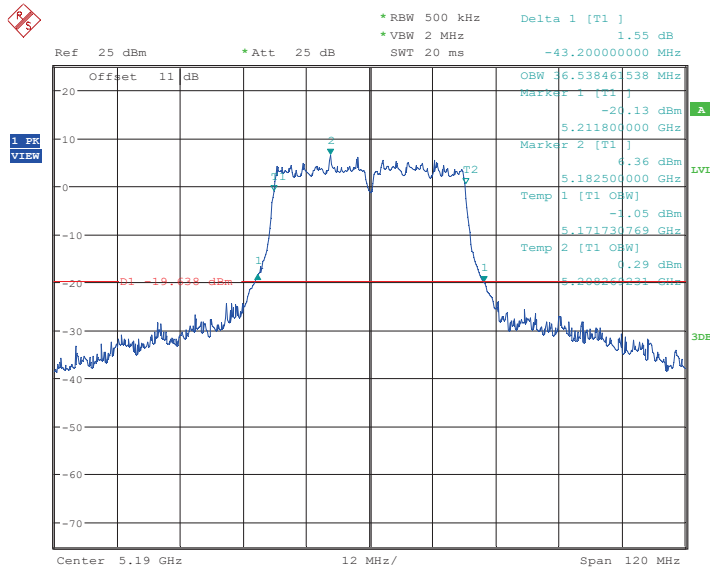


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



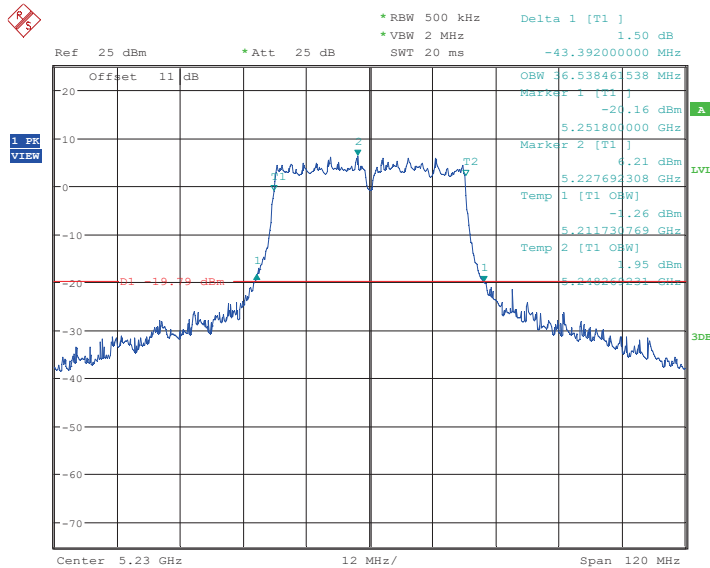
99% OBW & 26DB BANDWIDTH ANT3_11n20_CH48
Date: 16.OCT.2019 14:31:53



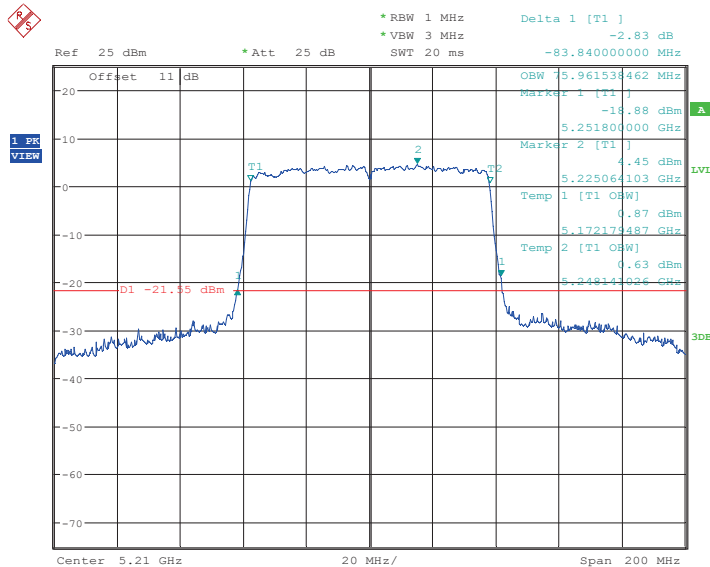
99% OBW & 26DB BANDWIDTH ANT3_11n40_CH38
Date: 16.OCT.2019 14:54:37



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



99% OBW & 26DB BANDWIDTH ANT3_11n40_CH46
Date: 16.OCT.2019 15:00:51



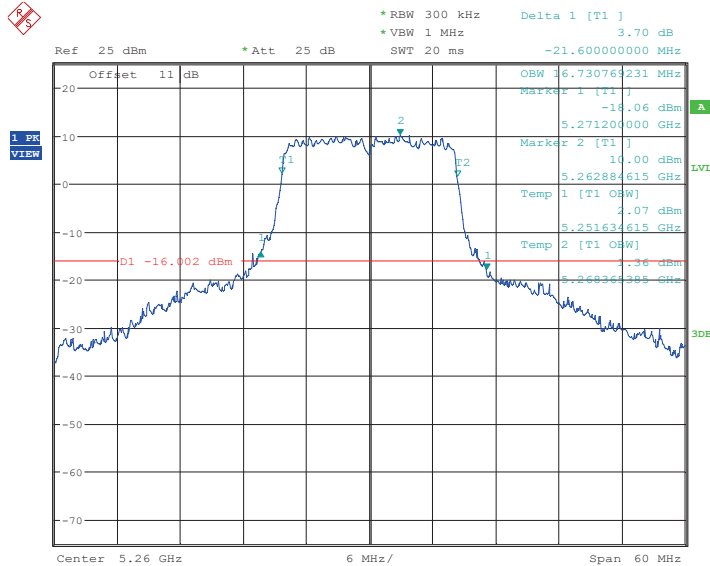
99% OBW & 26DB BANDWIDTH ANT3_11ac80_CH42
Date: 16.OCT.2019 15:12:13



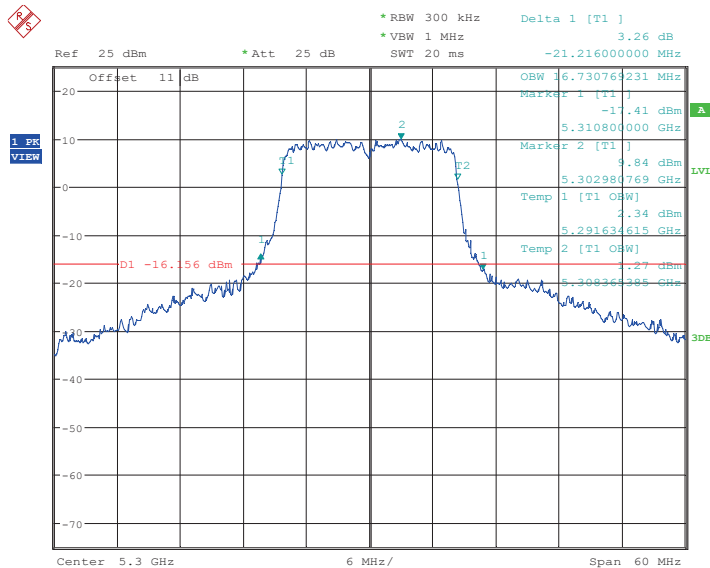
Registration number: W6R22002-19655-C-54-R2

FCC ID: W23-WMXWAVE2AS

5.25 GHz ~ 5.35 GHz



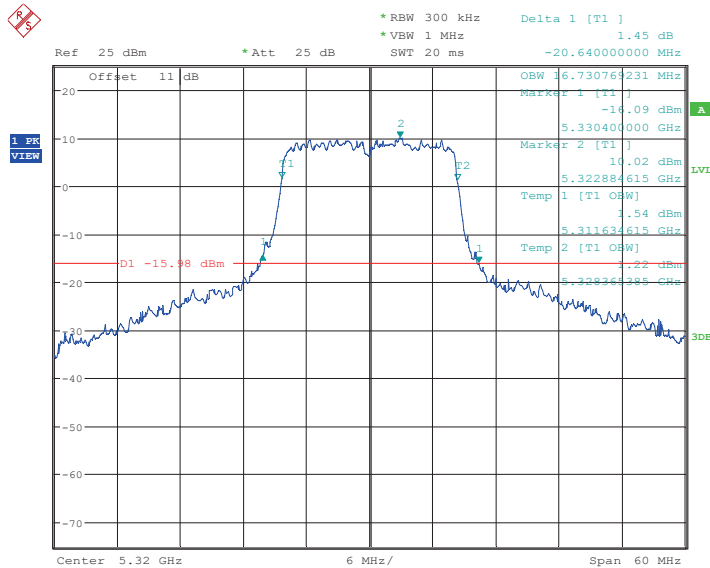
99% OBW & 26DB BANDWIDTH ANT3_11a_CH52
Date: 16.OCT.2019 15:30:17



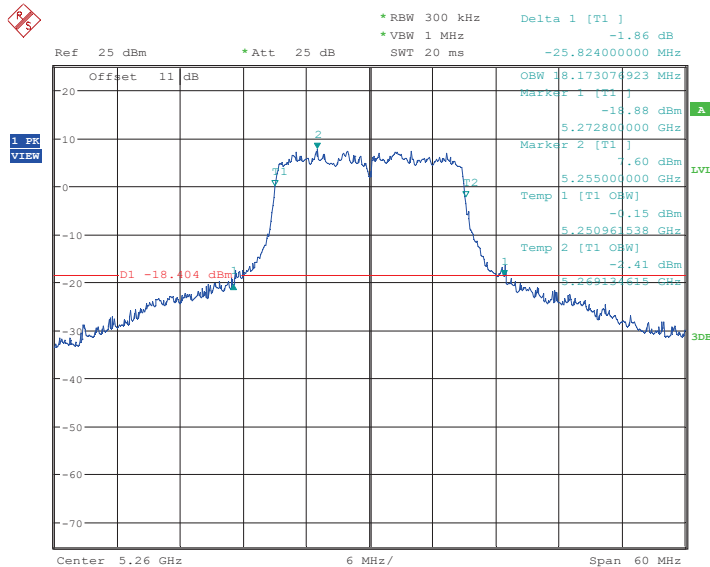
99% OBW & 26DB BANDWIDTH ANT3_11a_CH60
Date: 16.OCT.2019 15:36:47



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



99% OBW & 26DB BANDWIDTH ANT3_11a_CH64
Date: 16.OCT.2019 15:43:01

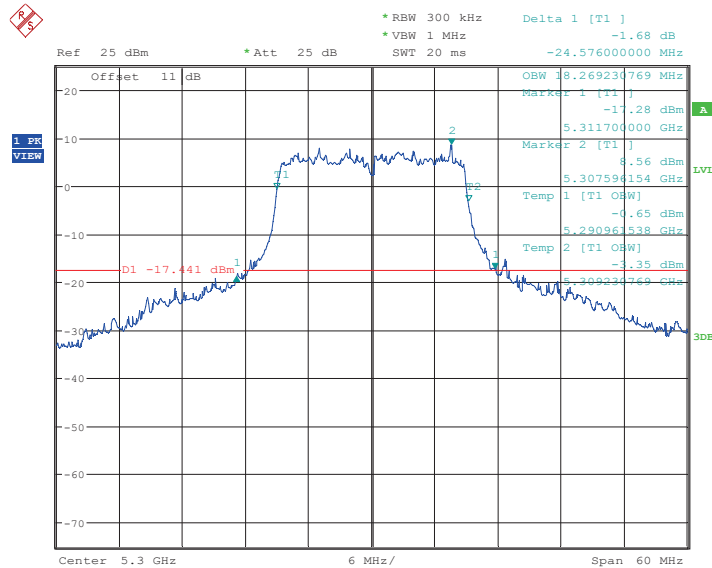


99% OBW & 26DB BANDWIDTH ANT3_11n20_CH52
Date: 16.OCT.2019 16:03:55

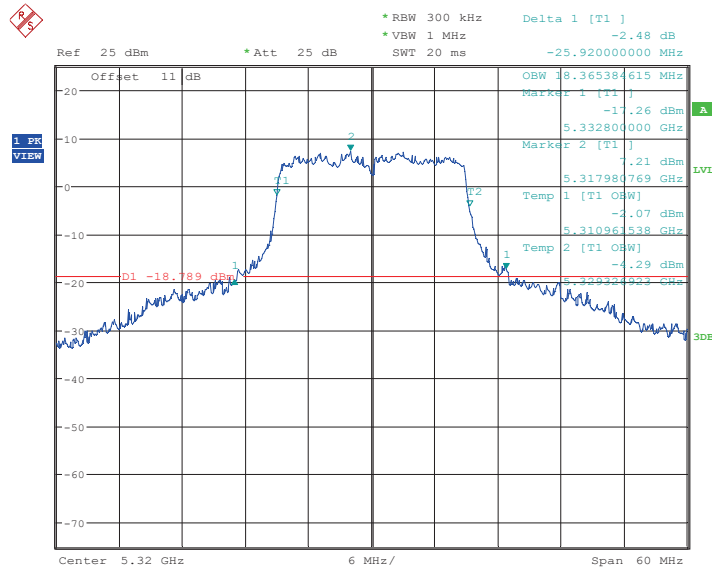


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



99% OBW & 26DB BANDWIDTH ANT3_11n20_CH60
Date: 16.OCT.2019 16:09:47

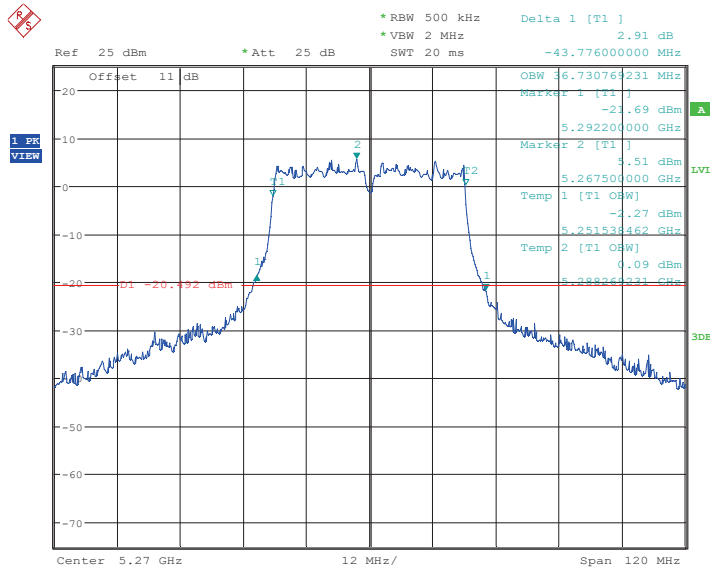


99% OBW & 26DB BANDWIDTH ANT3_11n20_CH64
Date: 16.OCT.2019 16:15:50

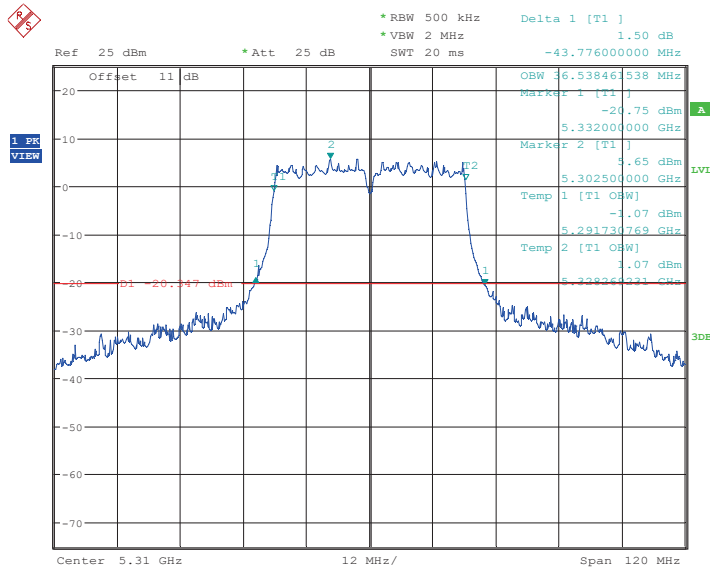


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



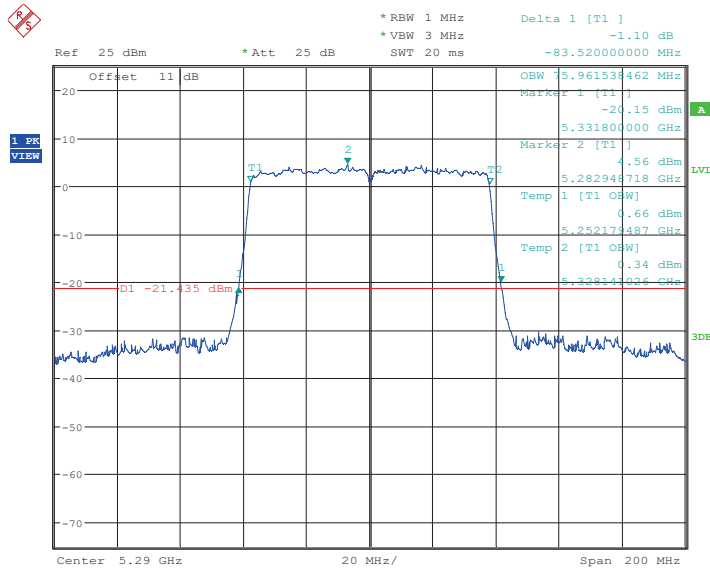
99% OBW & 26DB BANDWIDTH ANT3_11n40_CH54
Date: 16.OCT.2019 16:31:09



99% OBW & 26DB BANDWIDTH ANT3_11n40_CH62
Date: 16.OCT.2019 16:38:40

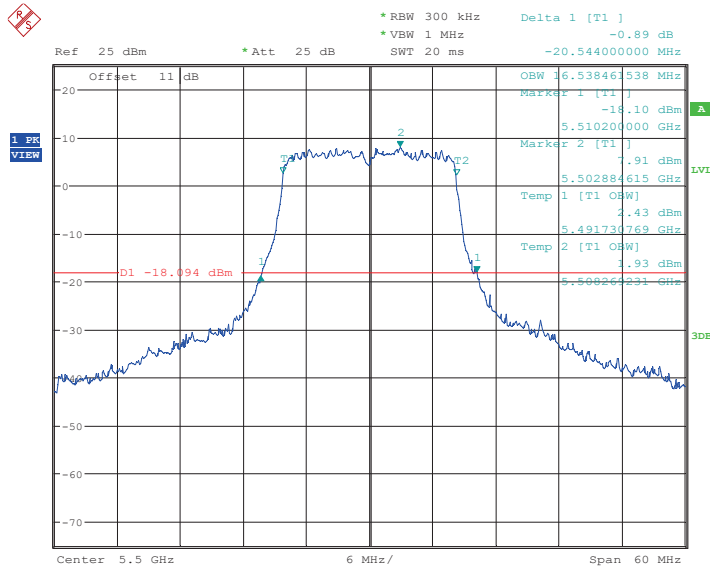


Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



99% OBW & 26DB BANDWIDTH ANT3_11ac80_CH58
Date: 16.OCT.2019 16:52:25

5.47 GHz ~ 5.725 GHz

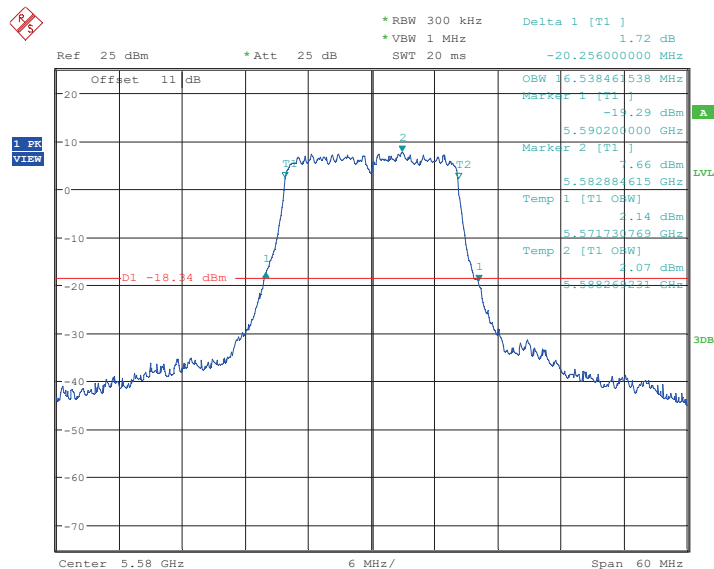


99% OBW & 26DB BANDWIDTH ANT3_11a_CH100
Date: 16.OCT.2019 17:19:16

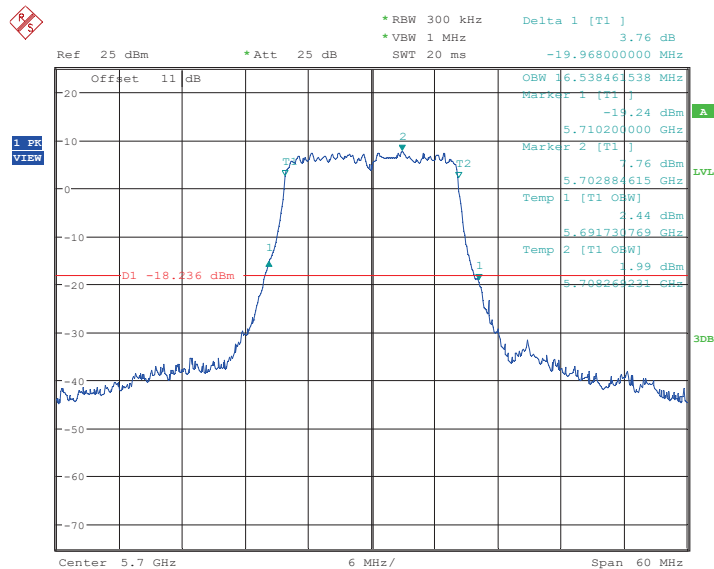


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



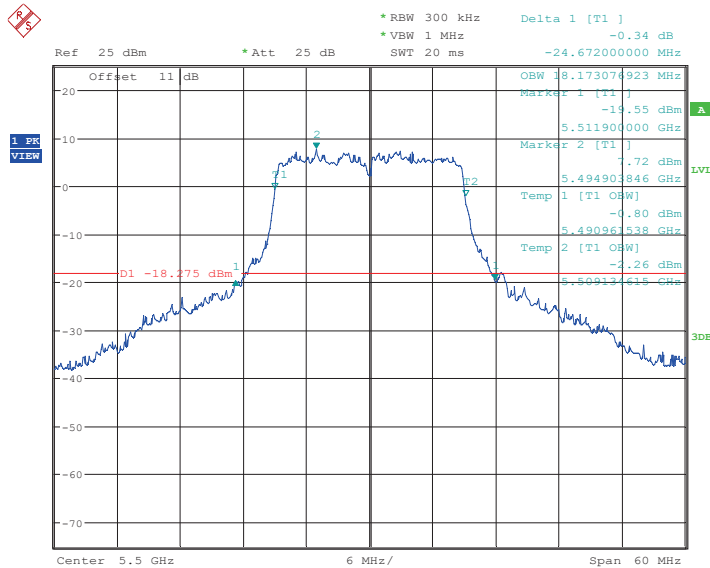
99% OBW & 26DB BANDWIDTH ANT3_11a_CH116
Date: 16.OCT.2019 19:19:21



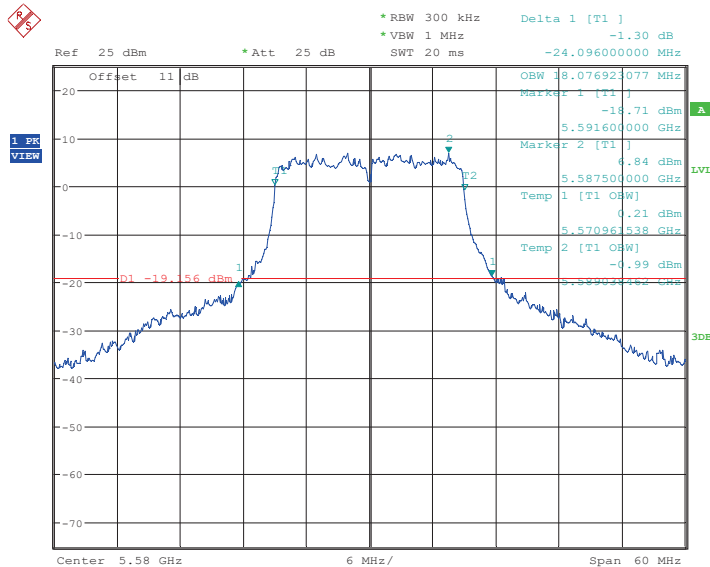
99% OBW & 26DB BANDWIDTH ANT3_11a_CH140
Date: 16.OCT.2019 19:26:03



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



99% OBW & 26DB BANDWIDTH ANT3_11n20_CH100
Date: 16.OCT.2019 19:51:54

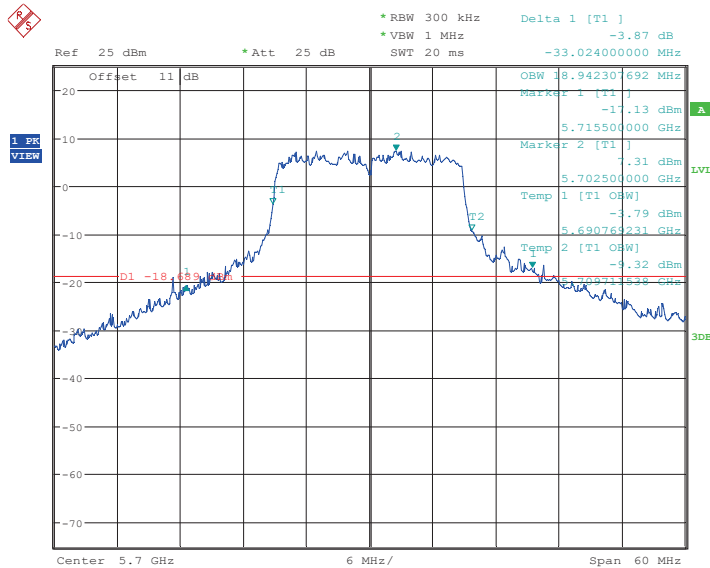


99% OBW & 26DB BANDWIDTH ANT3_11n20_CH116
Date: 16.OCT.2019 19:58:24

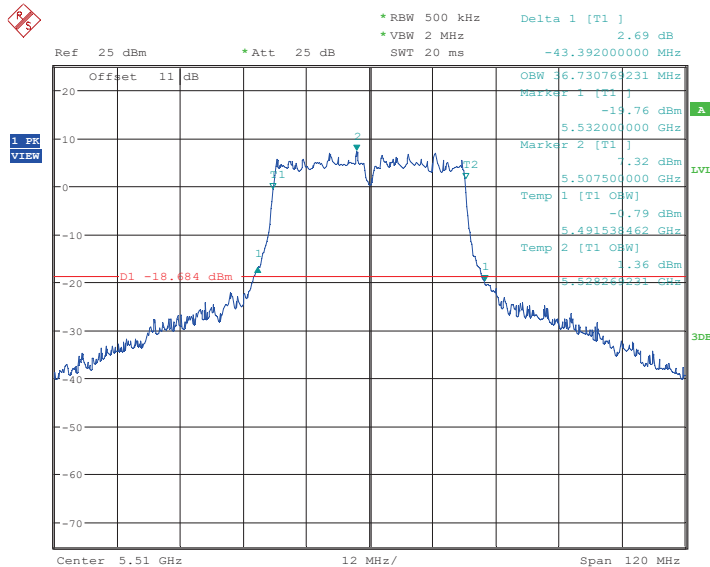


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



99% OBW & 26DB BANDWIDTH ANT3_11n20_CH140
Date: 16.OCT.2019 20:03:54

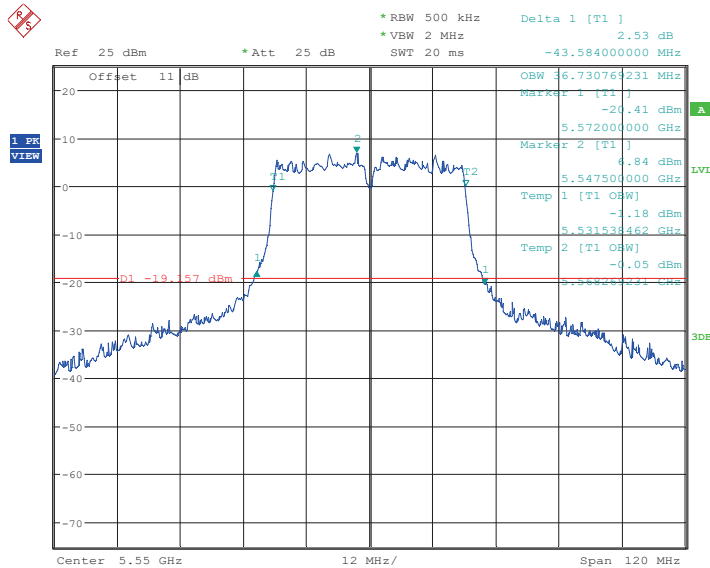


99% OBW & 26DB BANDWIDTH ANT3_11n40_CH102
Date: 16.OCT.2019 20:22:14

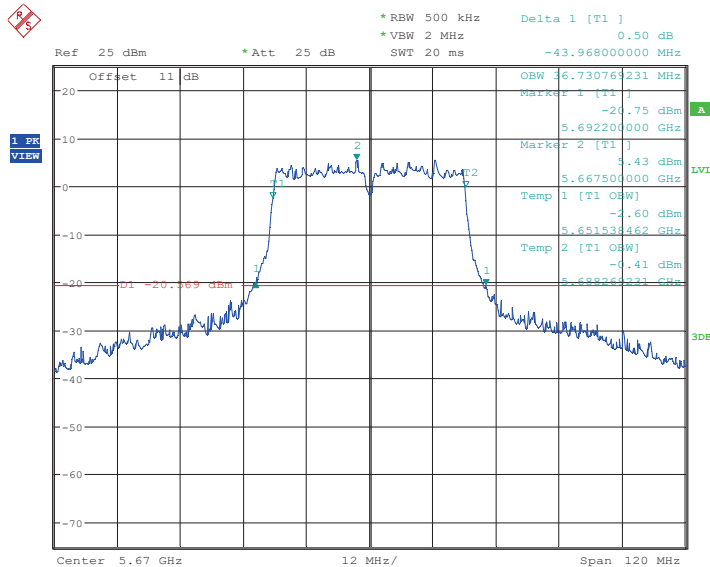


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



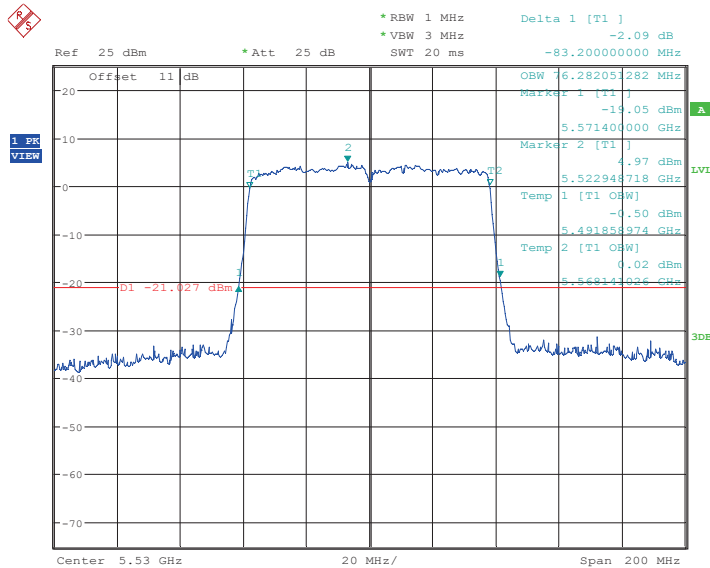
99% OBW & 26DB BANDWIDTH ANT3_11n40_CH110
Date: 16.OCT.2019 20:29:01



99% OBW & 26DB BANDWIDTH ANT3_11n40_CH134
Date: 16.OCT.2019 20:37:00

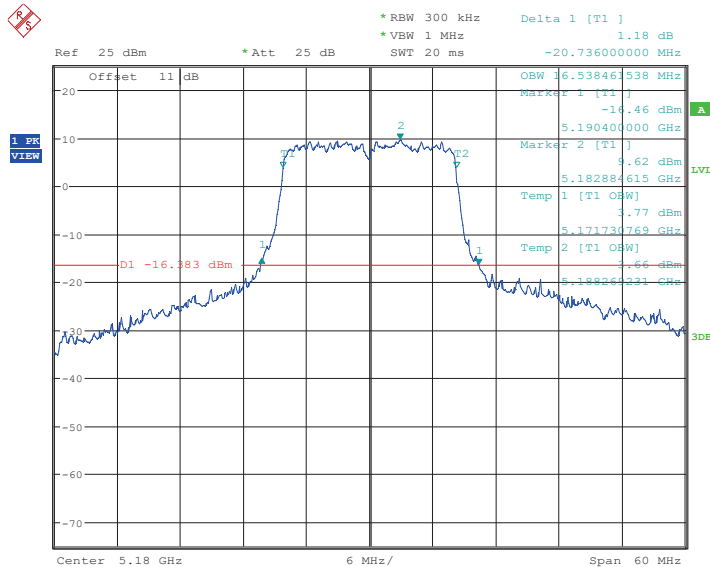


Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



99% OBW & 26DB BANDWIDTH ANT3_11ac_CH106
Date: 16.OCT.2019 20:49:22

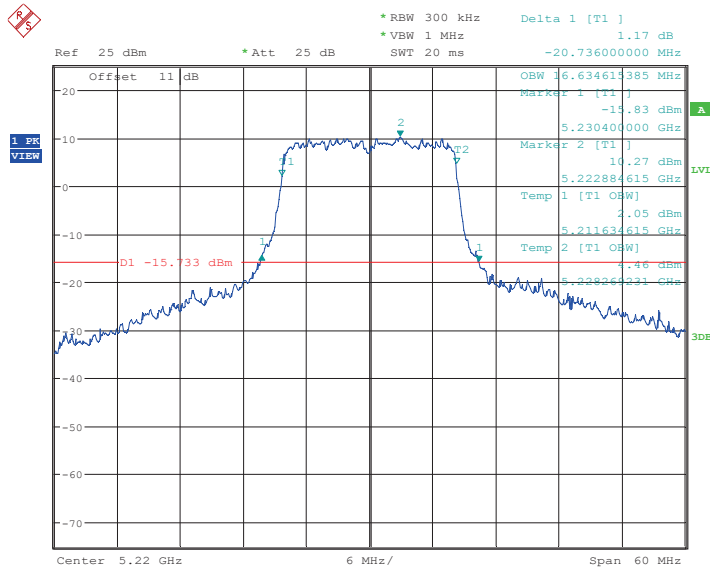
ANT4 5.15 GHz ~ 5.25 GHz



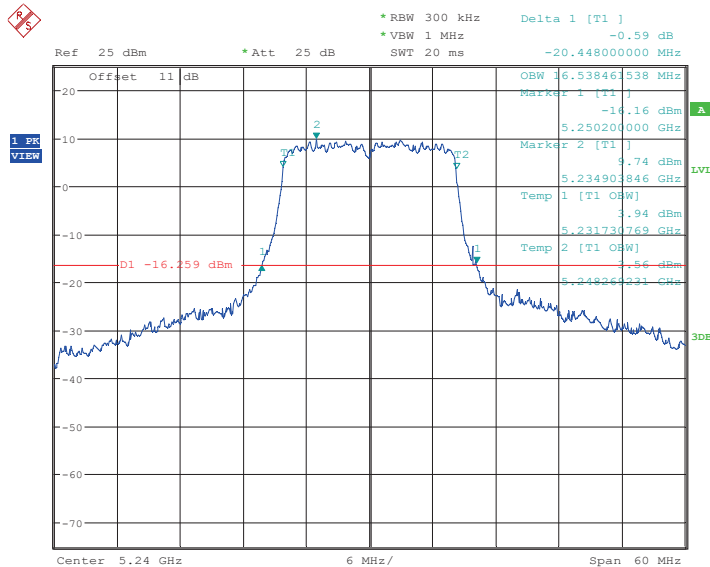
99% OBW & 26DB BANDWIDTH ANT4_11a_CH36
Date: 15.OCT.2019 21:05:38



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



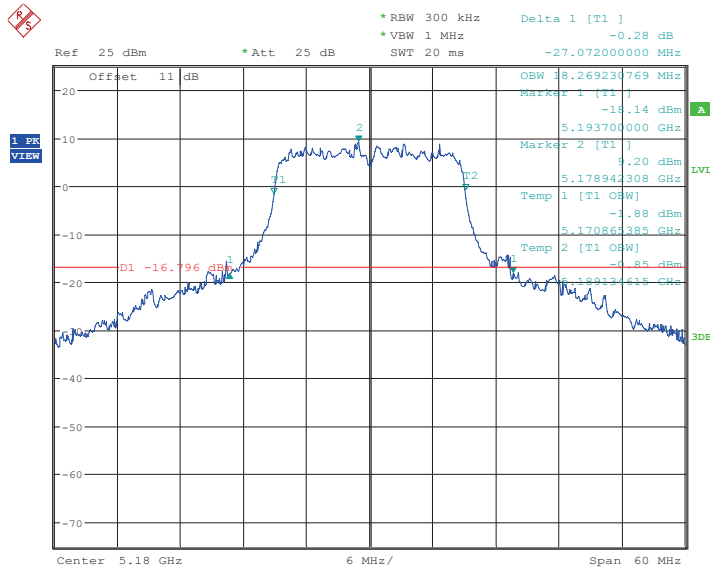
99% OBW & 26DB BANDWIDTH ANT4_11a_CH44
Date: 15.OCT.2019 21:11:52



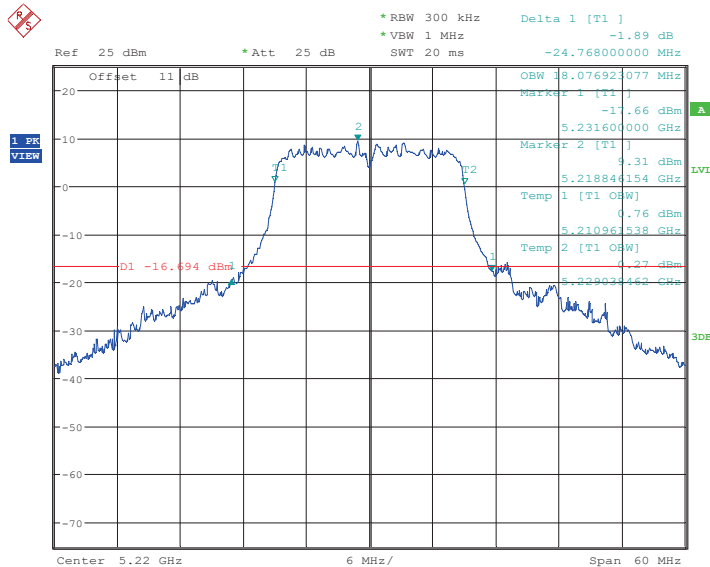
99% OBW & 26DB BANDWIDTH ANT4_11a_CH48
Date: 15.OCT.2019 21:18:22



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



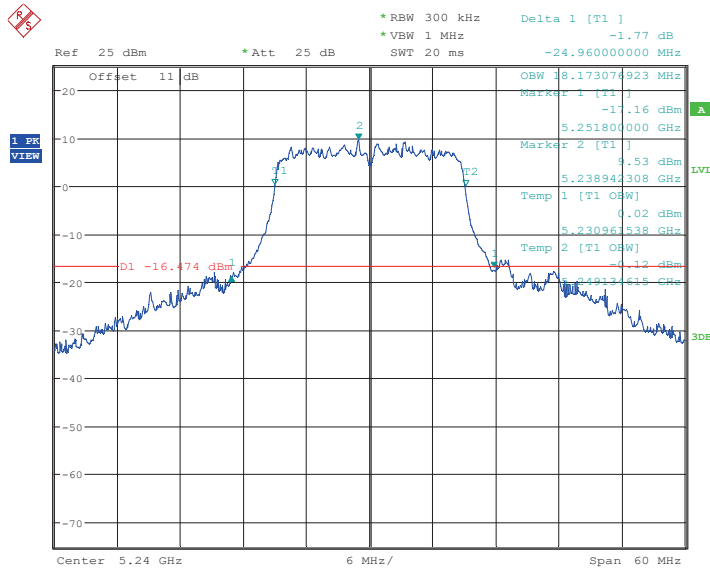
99% OBW & 26DB BANDWIDTH ANT4_11n20_CH36
Date: 16.OCT.2019 14:14:06



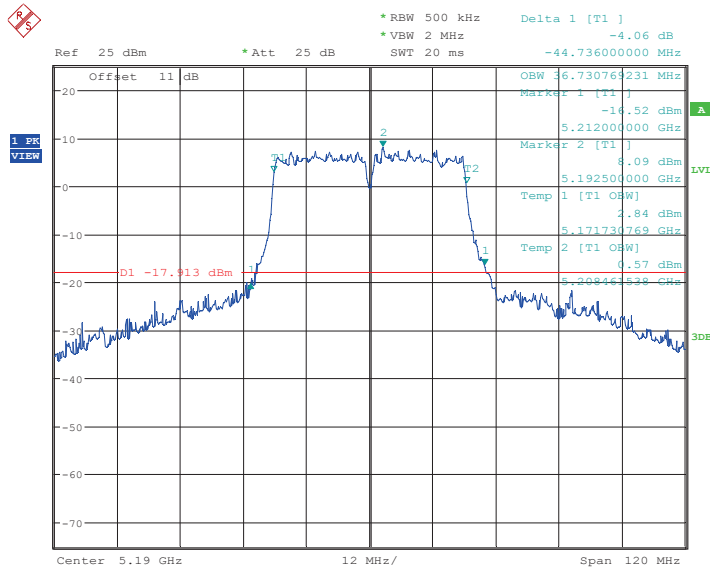
99% OBW & 26DB BANDWIDTH ANT4_11n20_CH44
Date: 16.OCT.2019 14:39:46



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



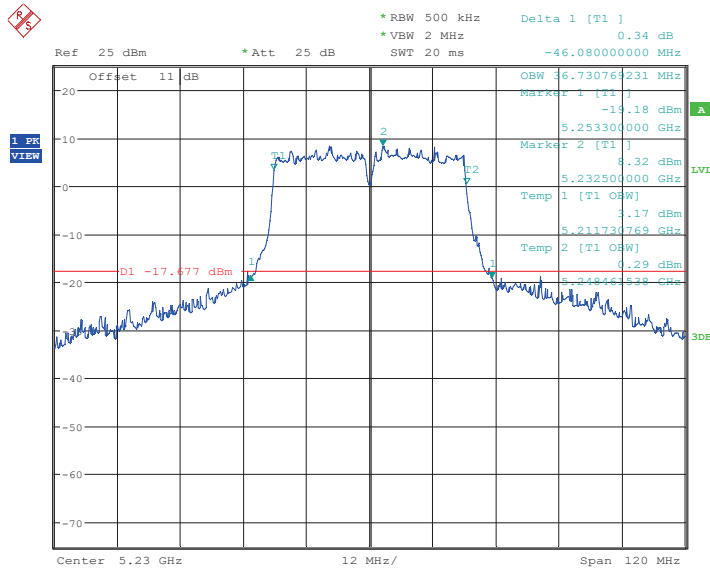
99% OBW & 26DB BANDWIDTH ANT4_11n20_CH48
Date: 16.OCT.2019 14:33:16



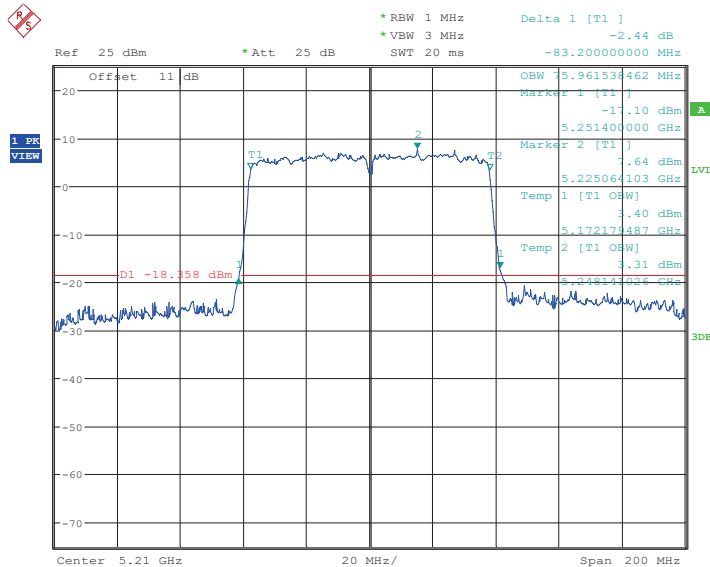
99% OBW & 26DB BANDWIDTH ANT4_11n40_CH38
Date: 16.OCT.2019 14:56:05



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



99% OBW & 26DB BANDWIDTH ANT4_11n40_CH46
Date: 16.OCT.2019 15:02:08

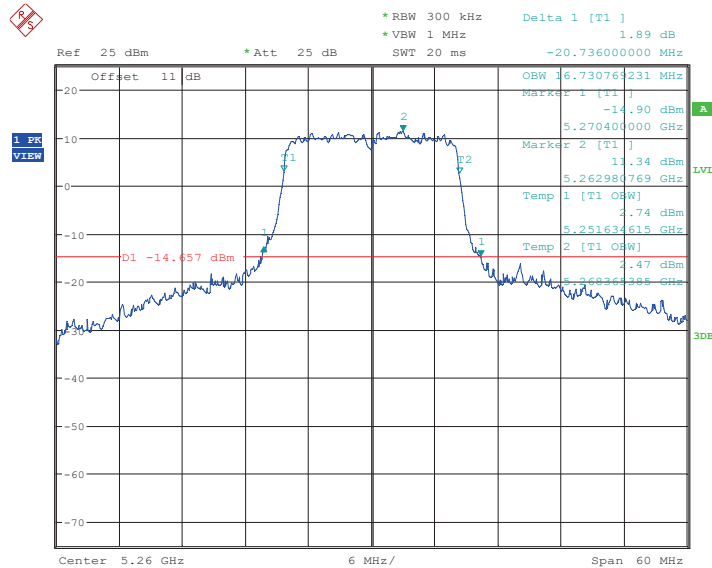


99% OBW & 26DB BANDWIDTH ANT4_11ac80_CH42
Date: 16.OCT.2019 15:14:20

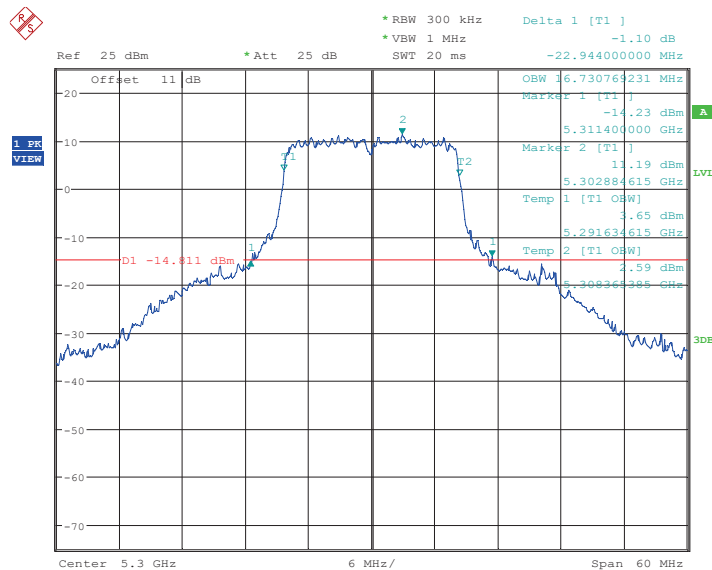


Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS

5.25 GHz ~ 5.35 GHz



99% OBW & 26DB BANDWIDTH ANT4_11a_CH52
Date: 16.OCT.2019 15:31:39

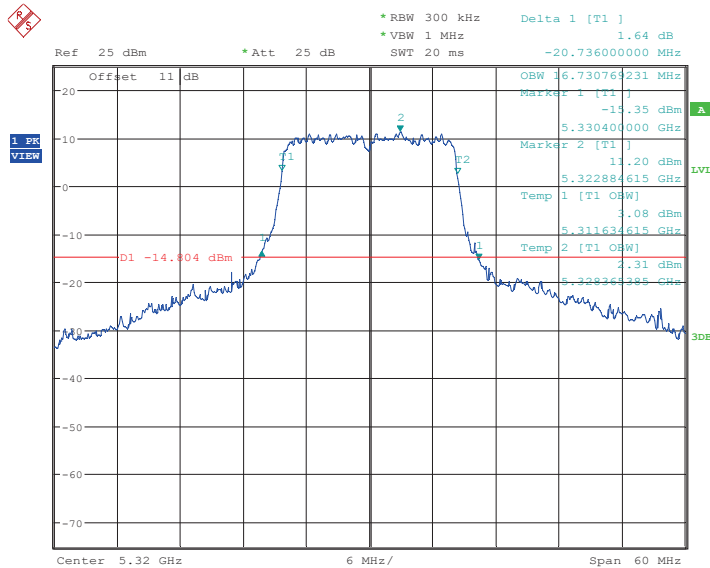


99% OBW & 26DB BANDWIDTH ANT4_11a_CH60
Date: 16.OCT.2019 15:38:10

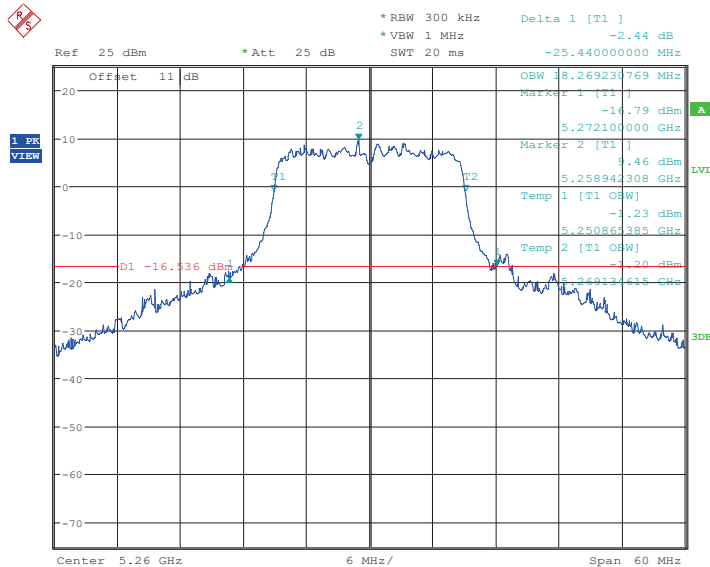


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



99% OBW & 26DB BANDWIDTH ANT4_11a_CH64
Date: 16.OCT.2019 15:44:24

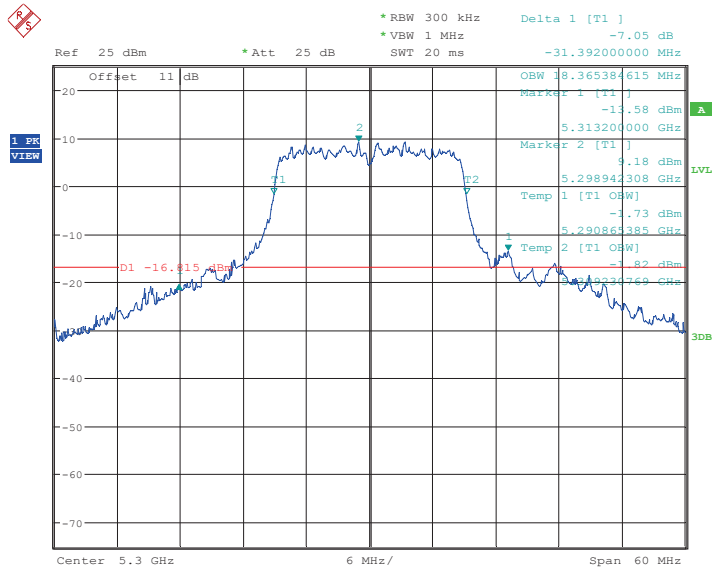


99% OBW & 26DB BANDWIDTH ANT4_11n20_CH52
Date: 16.OCT.2019 16:05:07

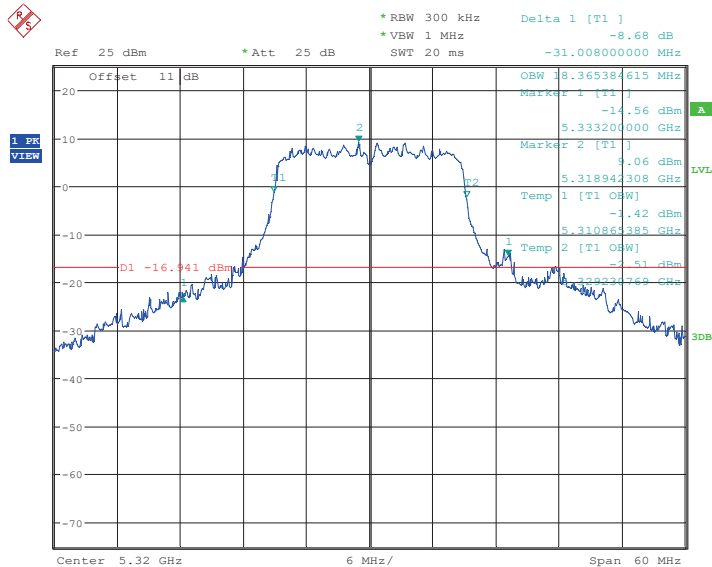


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



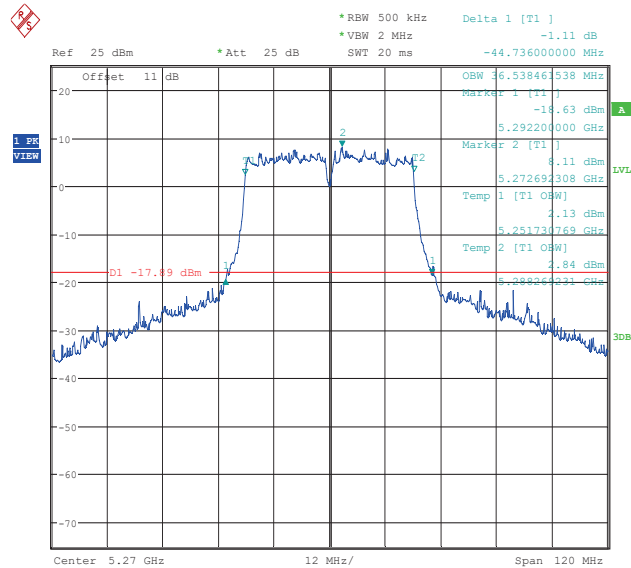
99% OBW & 26DB BANDWIDTH ANT4_11n20_CH60
Date: 16.OCT.2019 16:11:21



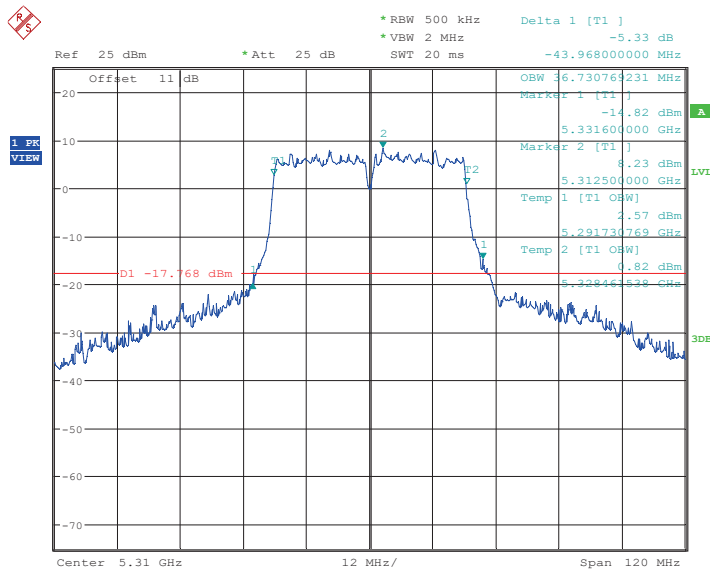
99% OBW & 26DB BANDWIDTH ANT4_11n20_CH64
Date: 16.OCT.2019 16:17:02



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



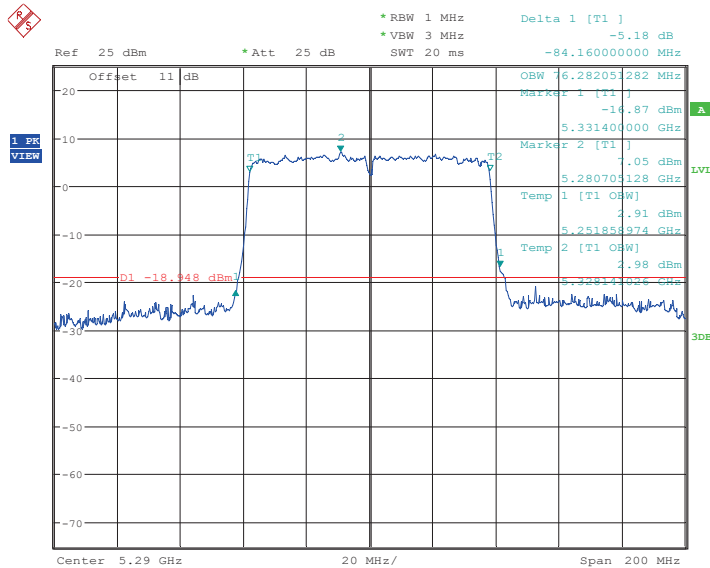
99% OBW & 26DB BANDWIDTH ANT4_11n40_CH54
Date: 16.OCT.2019 16:32:59



99% OBW & 26DB BANDWIDTH ANT4_11n40_CH62
Date: 16.OCT.2019 16:39:57

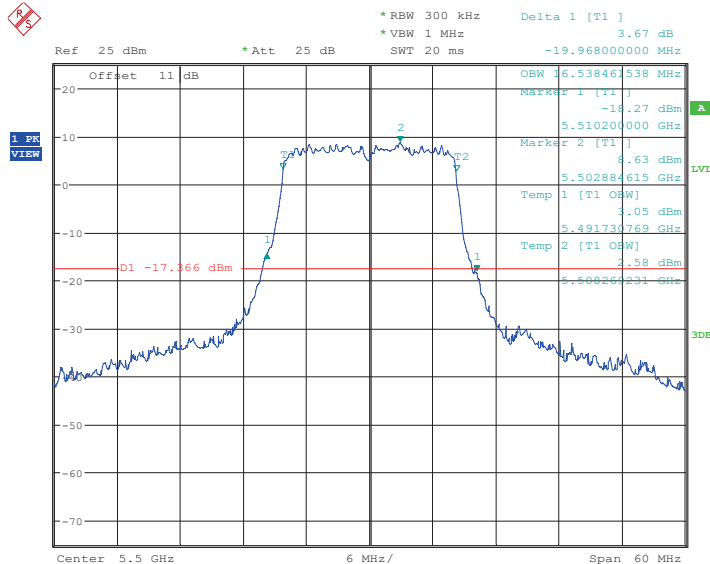


Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



99% OBW & 26DB BANDWIDTH ANT4_11ac80_CH58
Date: 16.OCT.2019 16:54:31

5.47 GHz ~ 5.725 GHz

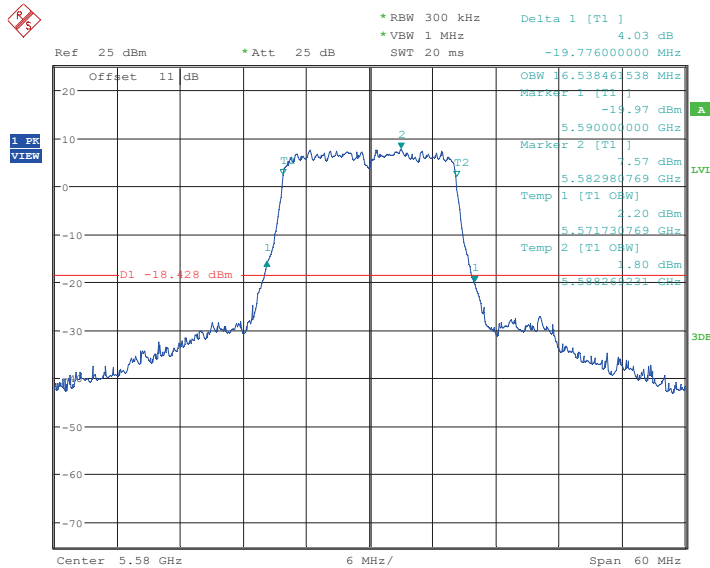


99% OBW & 26DB BANDWIDTH ANT4_11a_CH100
Date: 16.OCT.2019 17:20:39

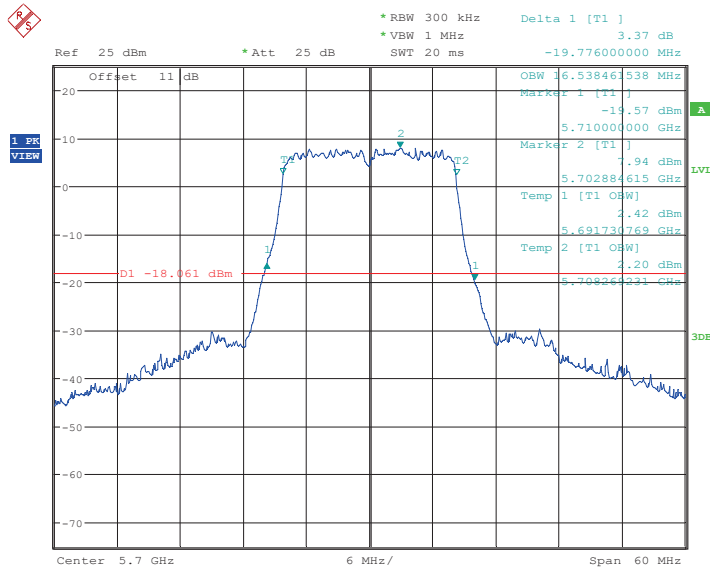


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



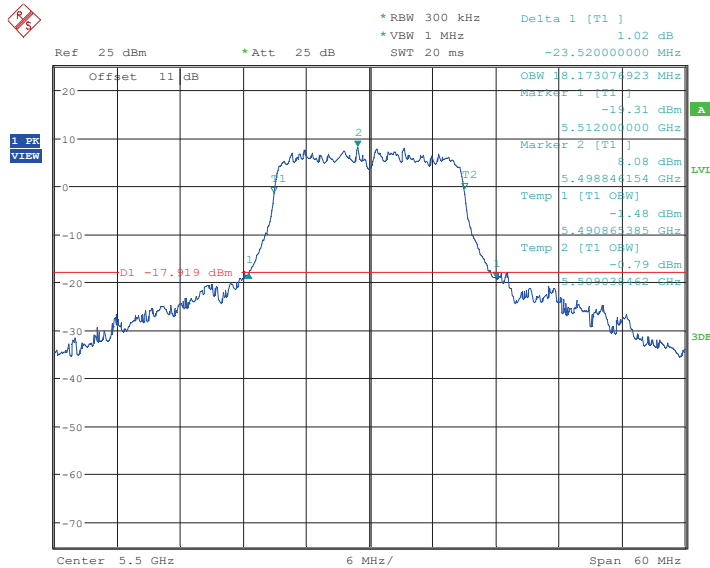
99% OBW & 26DB BANDWIDTH ANT4_11a_CH116
Date: 16.OCT.2019 19:20:49



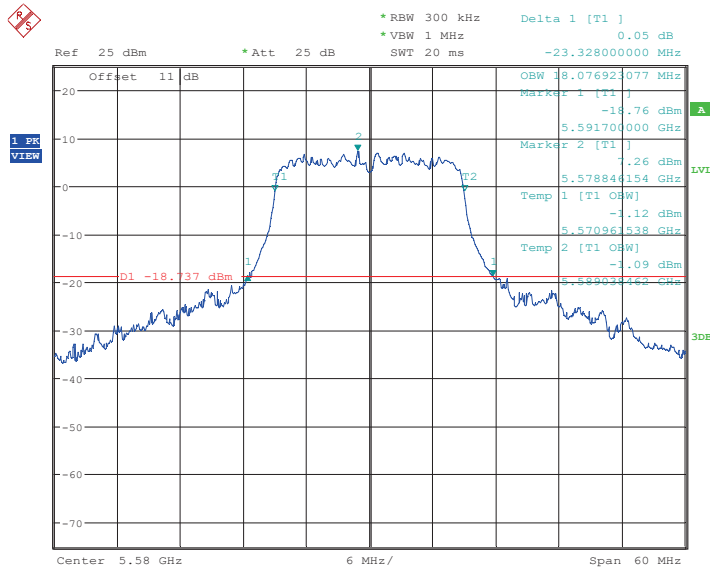
99% OBW & 26DB BANDWIDTH ANT4_11a_CH140
Date: 16.OCT.2019 19:27:25



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



99% OBW & 26DB BANDWIDTH ANT4_11n20_CH100
Date: 16.OCT.2019 19:53:11

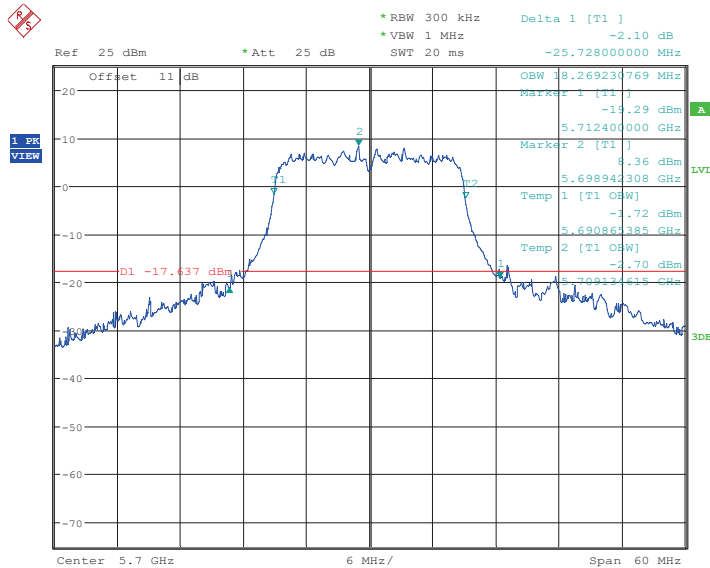


99% OBW & 26DB BANDWIDTH ANT4_11n20_CH116
Date: 16.OCT.2019 19:59:36

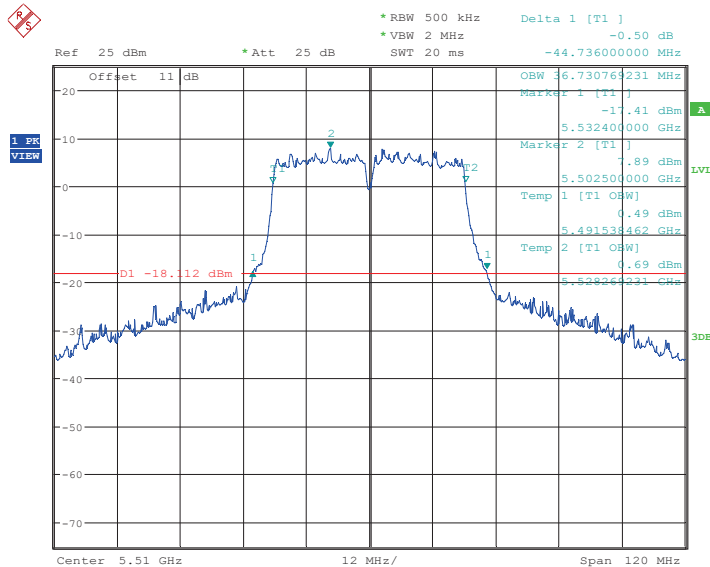


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



99% OBW & 26DB BANDWIDTH ANT4_11n20_CH140
Date: 16.OCT.2019 20:05:06

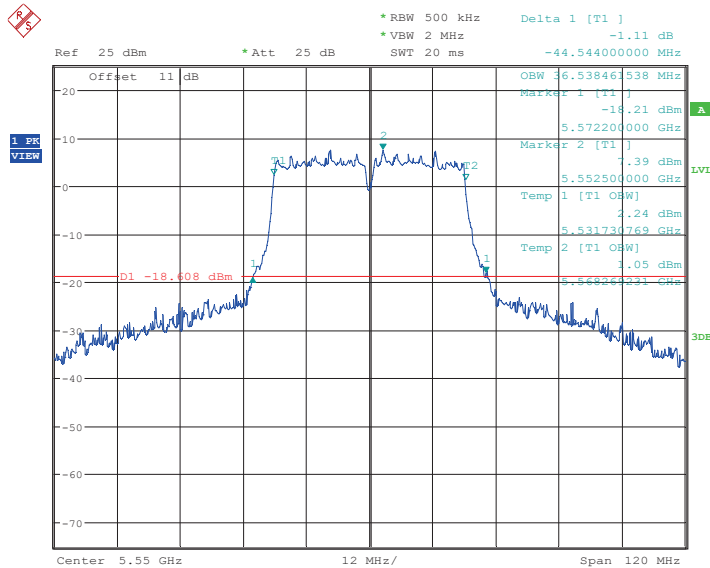


99% OBW & 26DB BANDWIDTH ANT4_11n40_CH102
Date: 16.OCT.2019 20:23:31

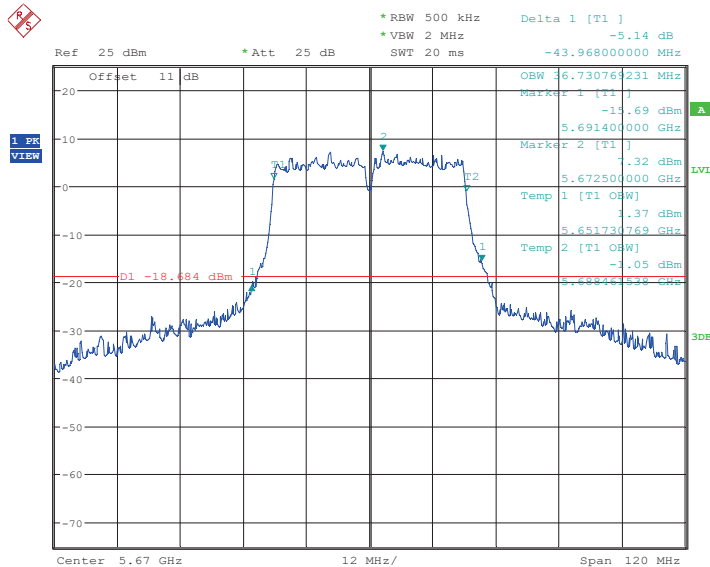


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



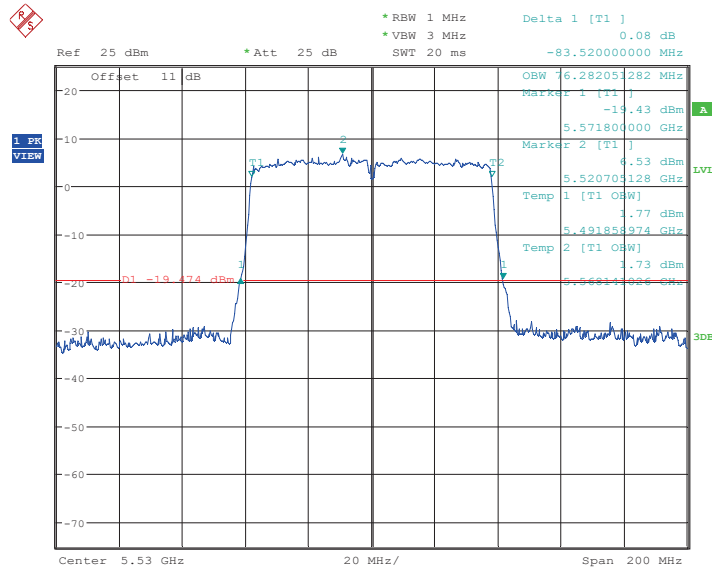
99% OBW & 26DB BANDWIDTH ANT4_11n40_CH110
Date: 16.OCT.2019 20:30:13



99% OBW & 26DB BANDWIDTH ANT4_11n40_CH134
Date: 16.OCT.2019 20:38:06



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



99% OBW & 26DB BANDWIDTH ANT4_11ac80_CH106
Date: 16.OCT.2019 20:51:23

Test equipment used: ETSTW-RE 055, ETSTW-RE 050

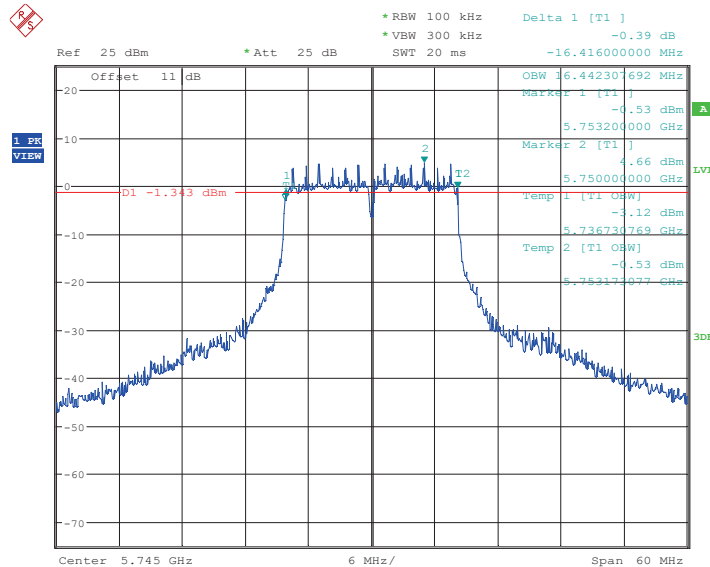


Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS

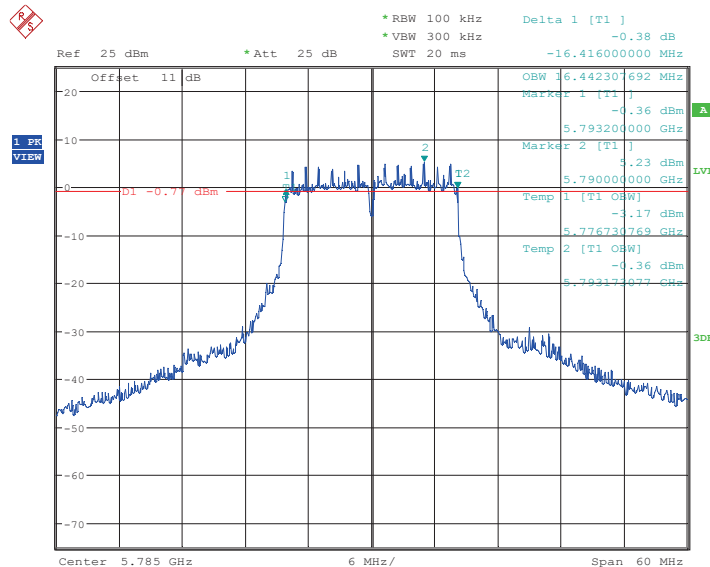
3.3 6dB emission bandwidth, 99% Occupied Bandwidth, FCC 15.407 (a)

According to §15.407 (e) Within the 5.725-5.850 GHz and 5.850-5.895 GHz bands, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

Result:
ANT1



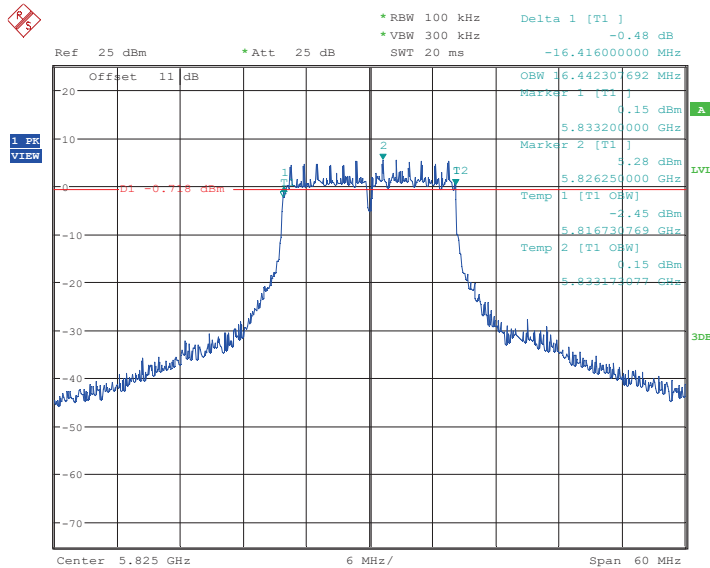
99% OBW & 6DB BANDWIDTH ANT1_11a_CH149
Date: 18.OCT.2019 16:19:35



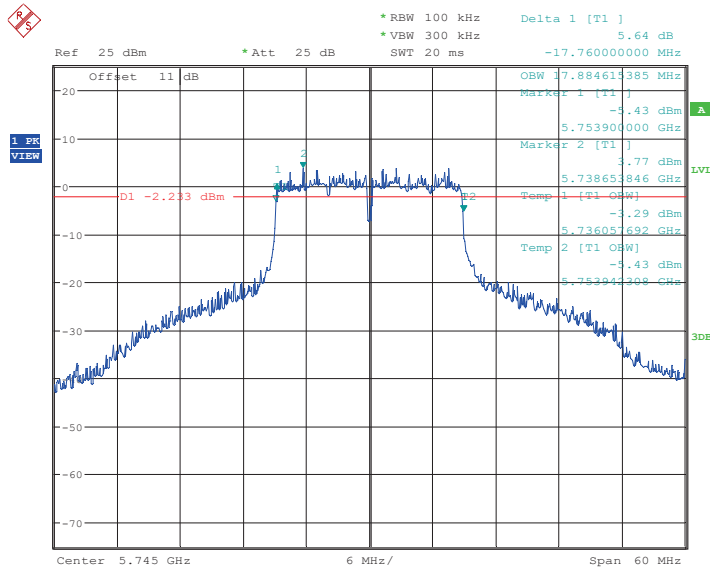
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Date: 18.OCT.2019 16:26:27



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



99% OBW & 6DB BANDWIDTH ANT1_11a_CH165
Date: 18.OCT.2019 16:37:44

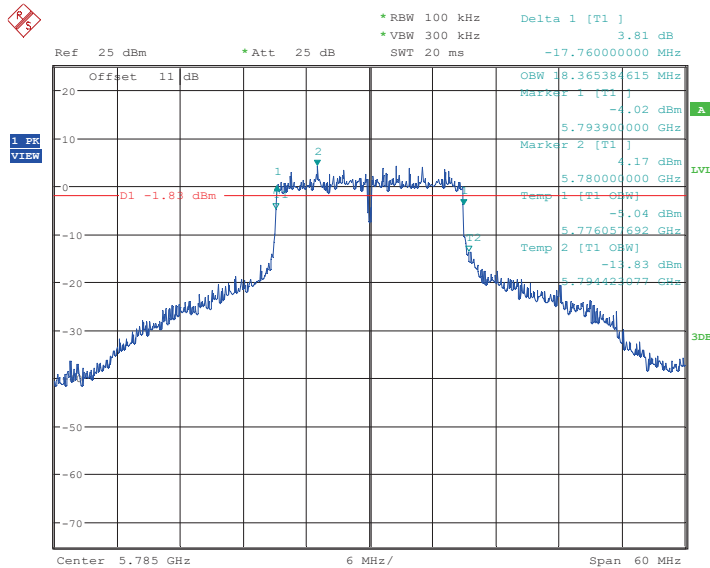


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Date: 18.OCT.2019 17:05:41

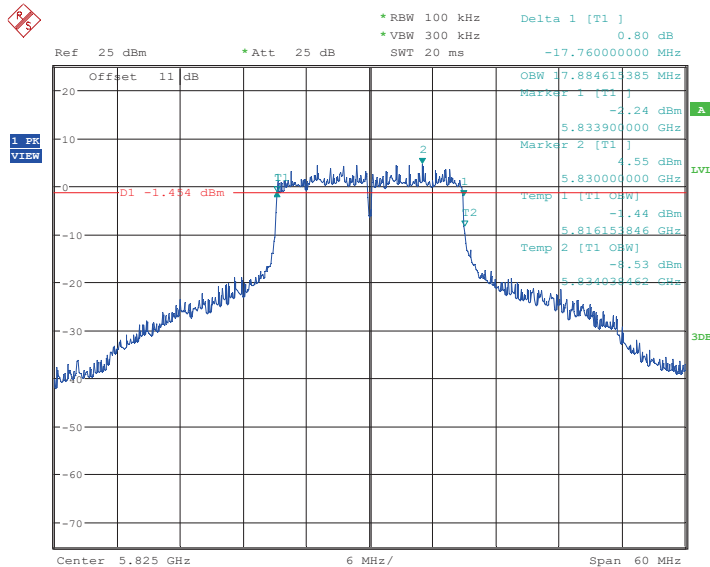


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



99% OBW & 6DB BANDWIDTH ANT1_11n20_CH157
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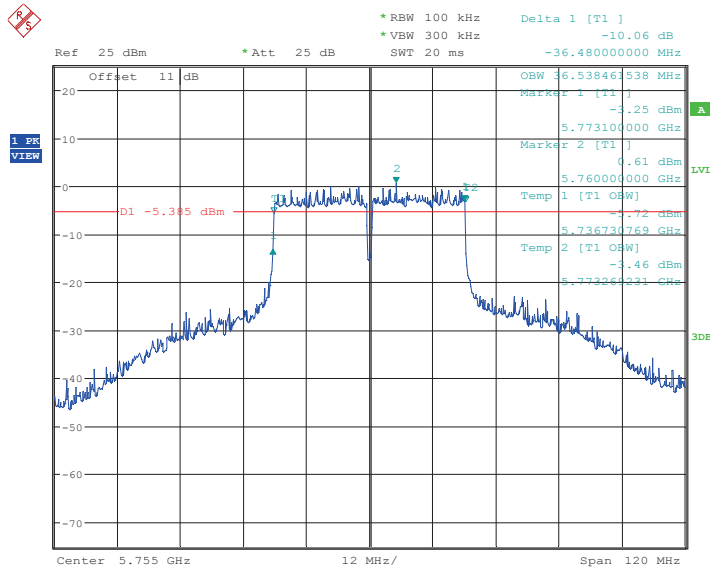


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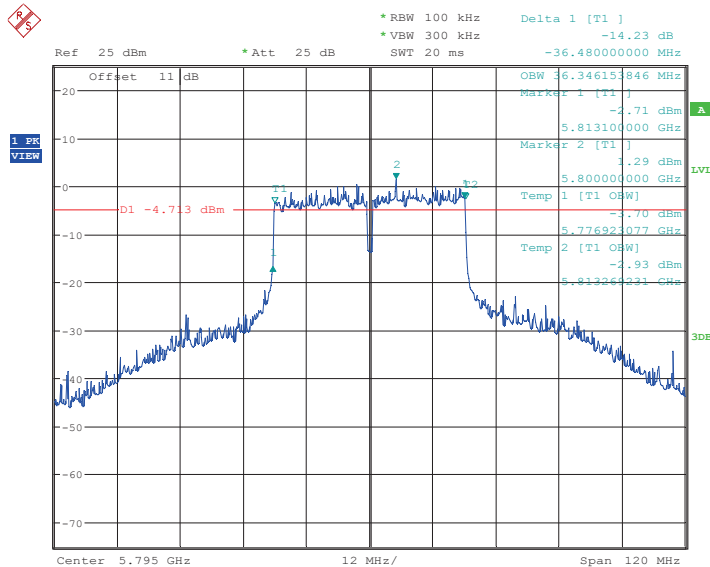


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



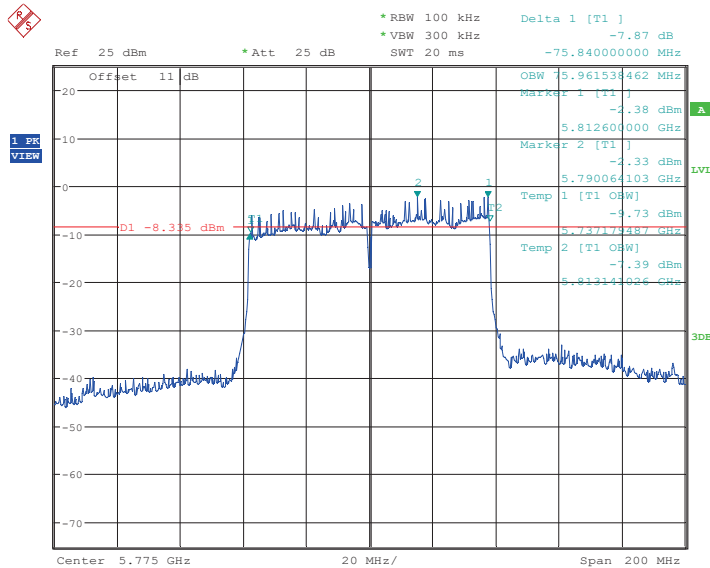
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Date: 18.OCT.2019 17:33:33



99% OBW & 6DB BANDWIDTH ANT1_11n40_CH159
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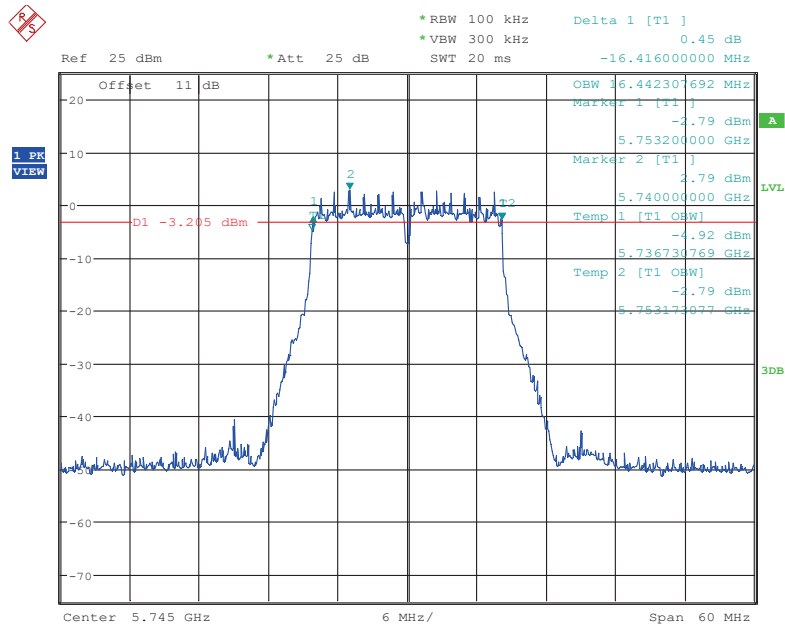


Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



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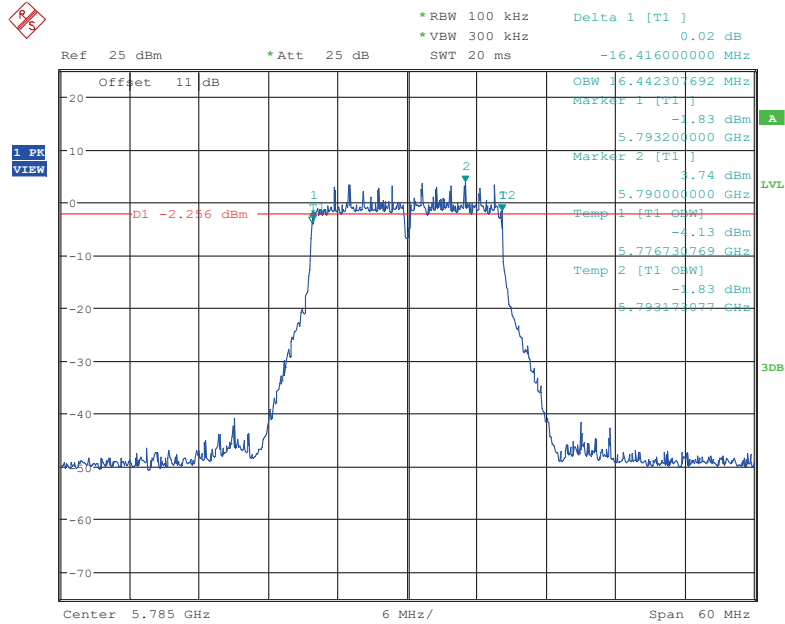
ANT2



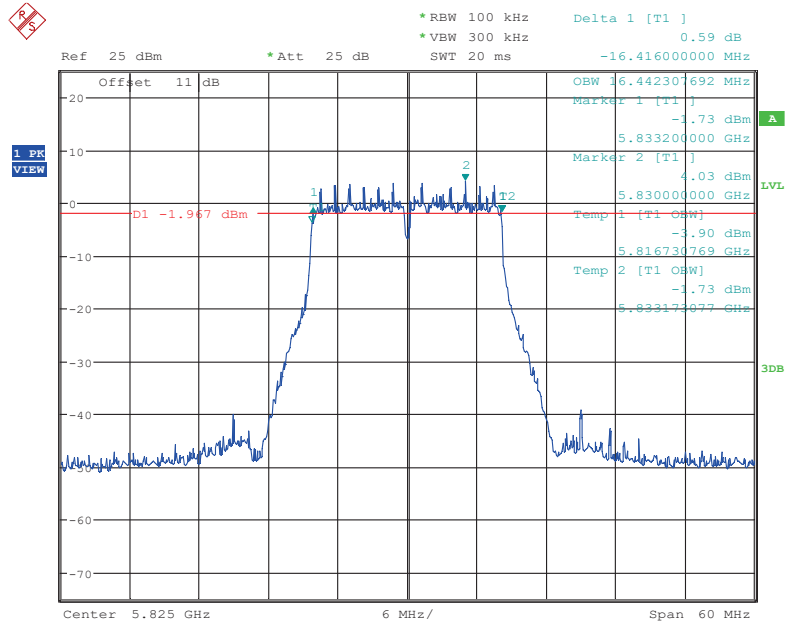
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Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



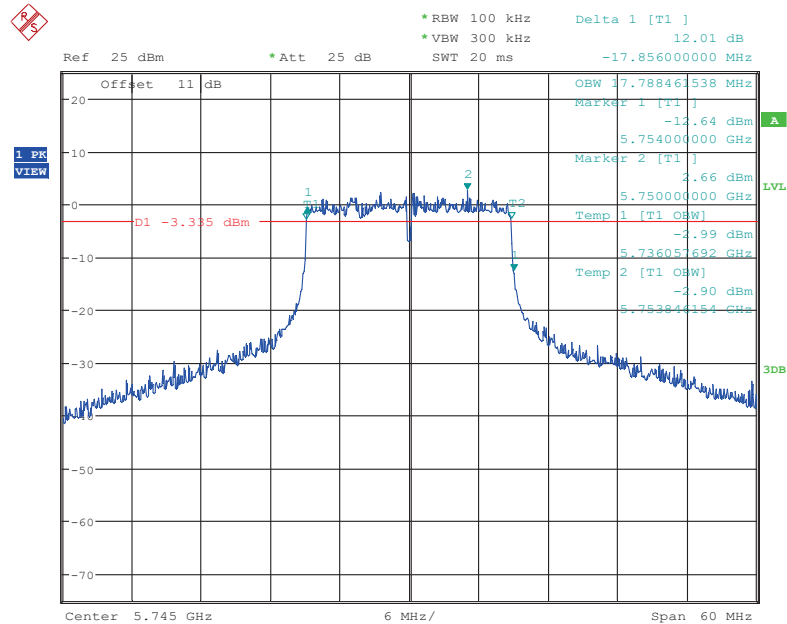
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Date: 18.OCT.2019 16:27:50



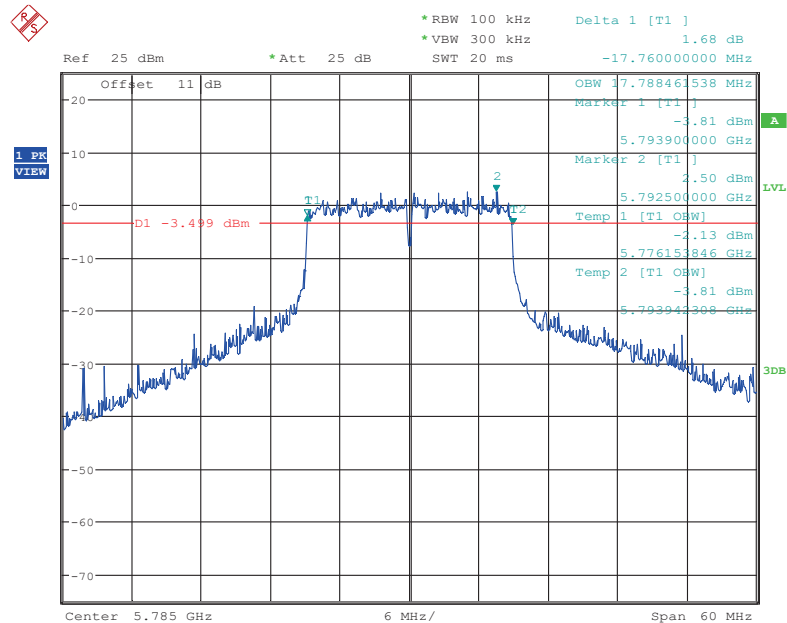
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Date: 18.OCT.2019 16:39:06



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



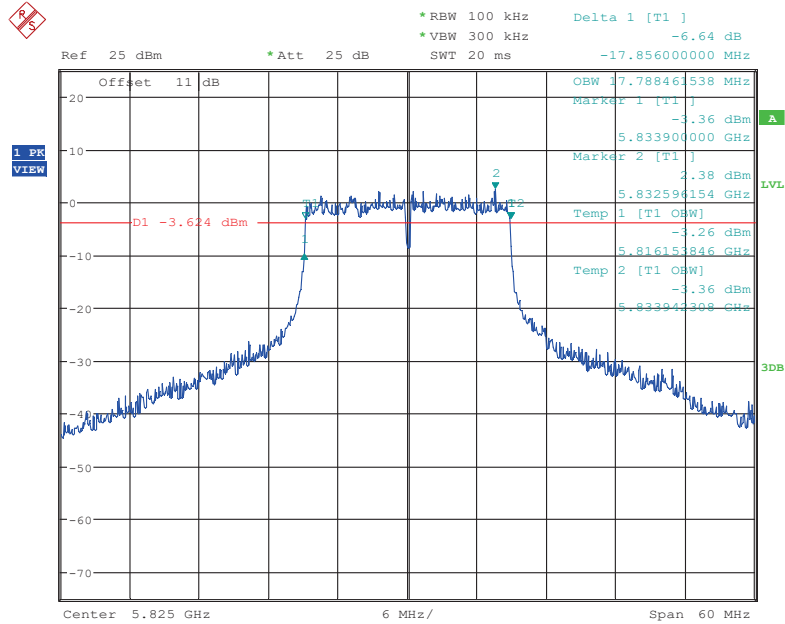
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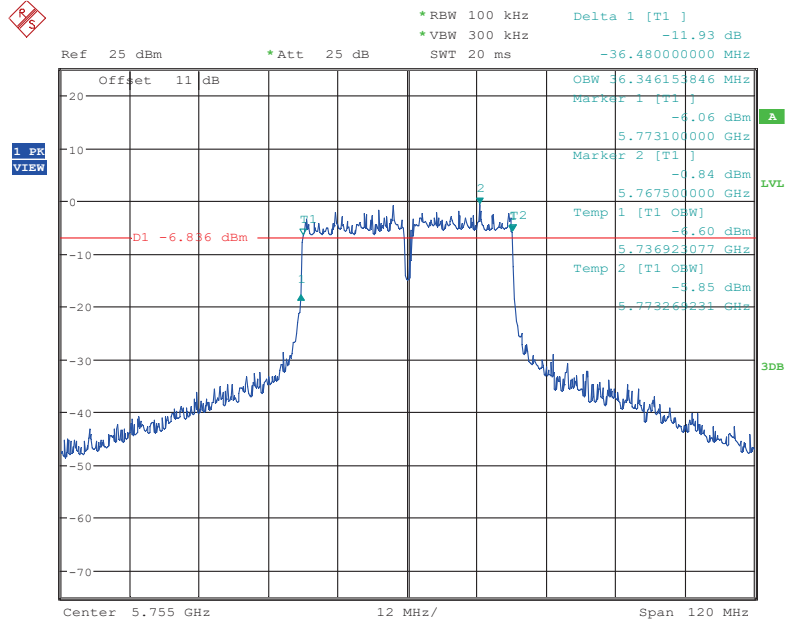
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Date: 18.OCT.2019 17:12:50



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



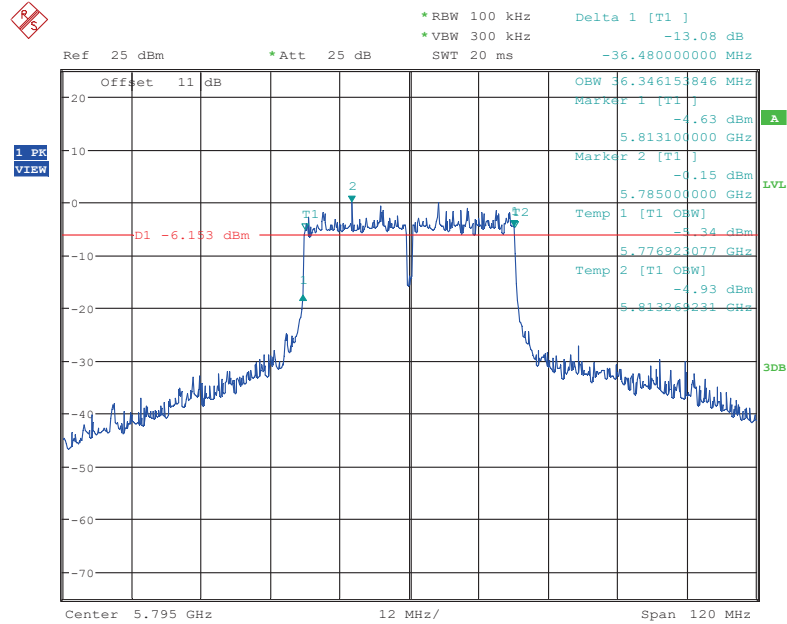
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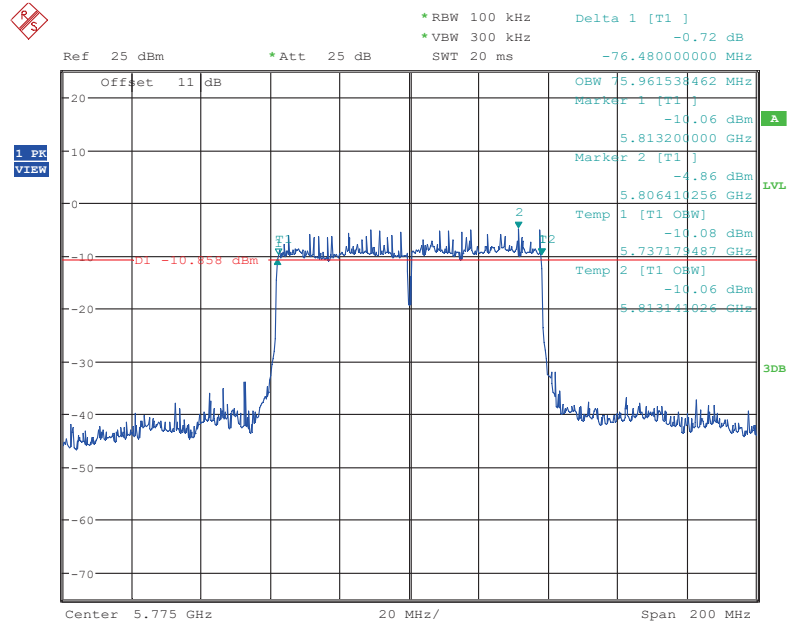
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Date: 18.OCT.2019 17:35:56



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



99% OBW & 6DB BANDWIDTH ANT2_11n40_CH159
Date: 18.OCT.2019 17:42:32



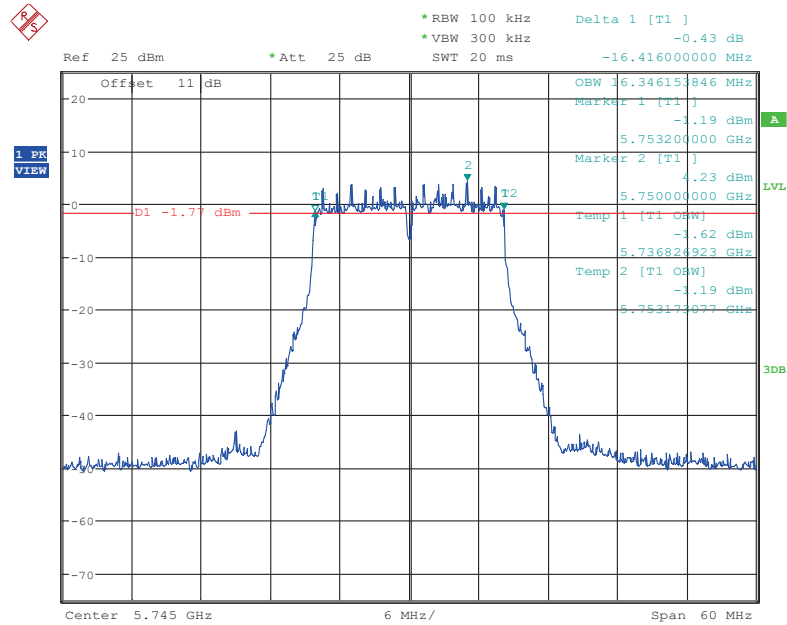
99% OBW & 6DB BANDWIDTH ANT2_11ac80_CH155
Date: 18.OCT.2019 17:54:22



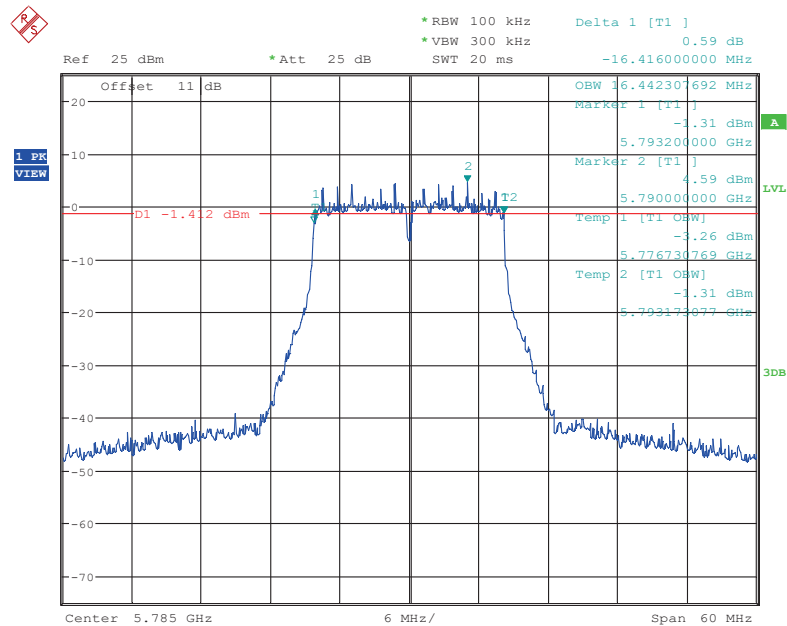
Registration number: W6R22002-19655-C-54-R2

FCC ID: W23-WMXWAVE2AS

ANT3



99% OBW & 6DB BANDWIDTH ANT3_11a_CH149
Date: 18.OCT.2019 16:22:47

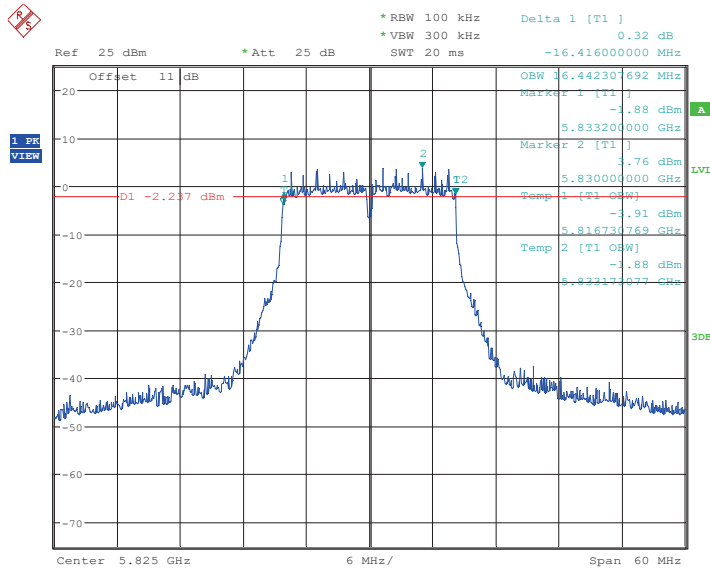


99% OBW & 6DB BANDWIDTH ANT3_11a_CH157
Date: 18.OCT.2019 16:29:12

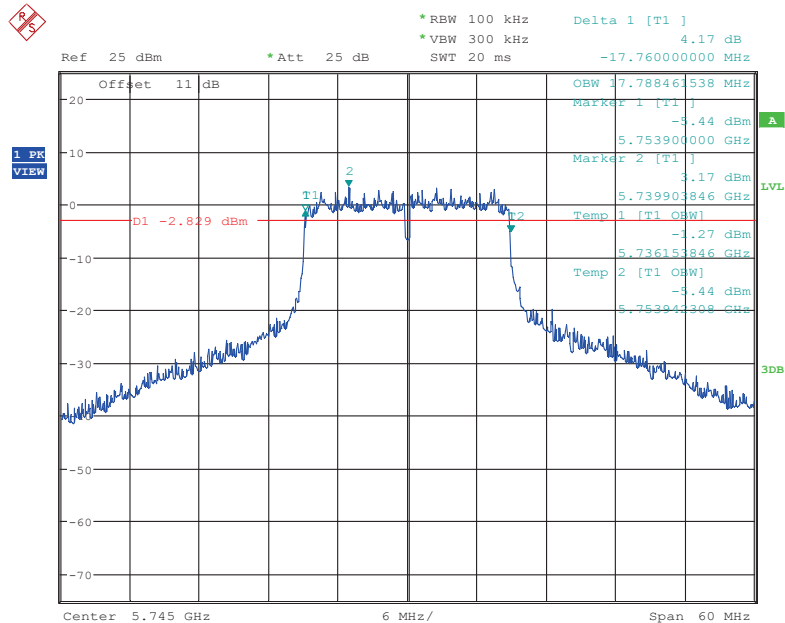


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



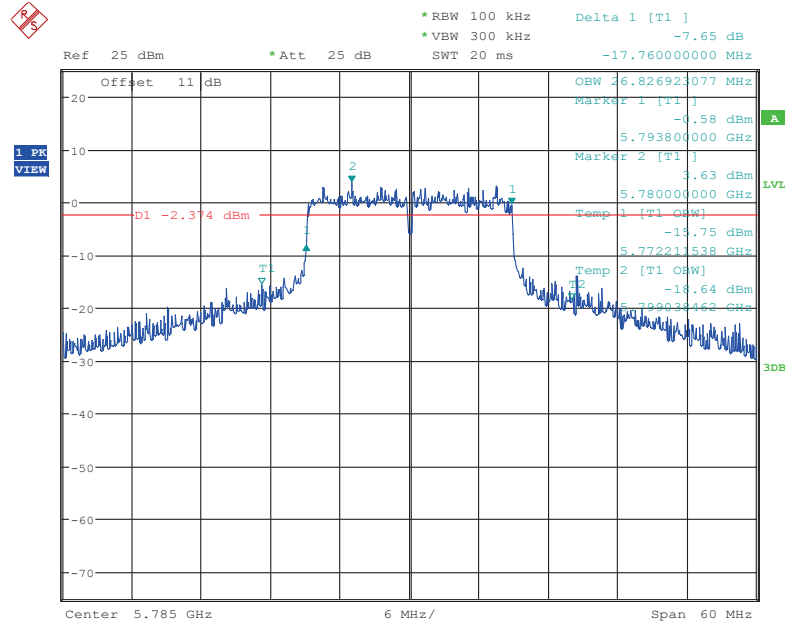
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Date: 18.OCT.2019 16:40:29



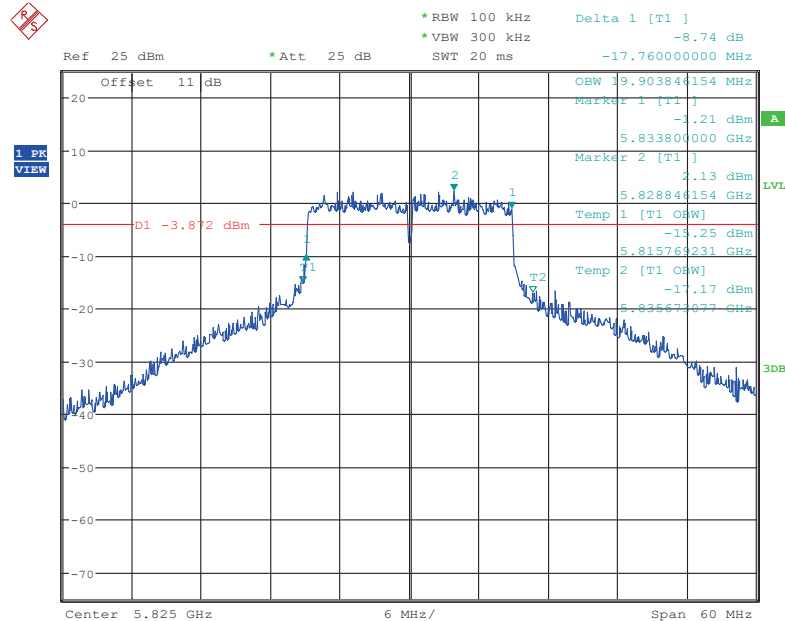
99% OBW & 6DB BANDWIDTH ANT3_11n20_CH149
Date: 18.OCT.2019 17:08:15



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



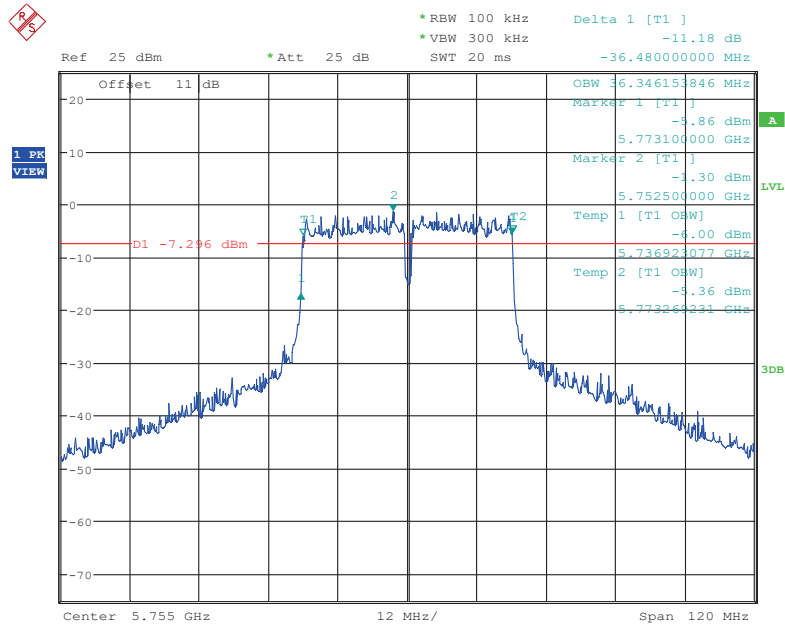
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Date: 18.OCT.2019 17:14:07



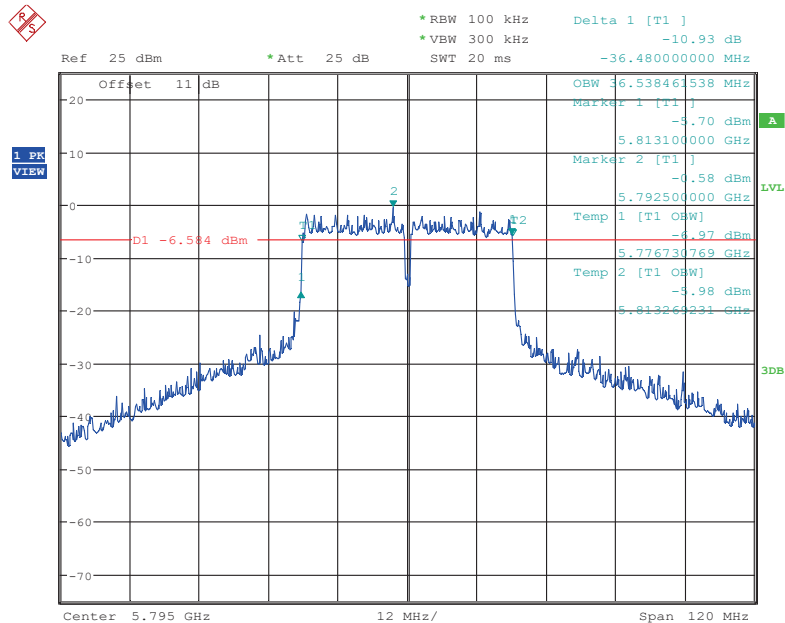
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Date: 18.OCT.2019 17:19:48



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



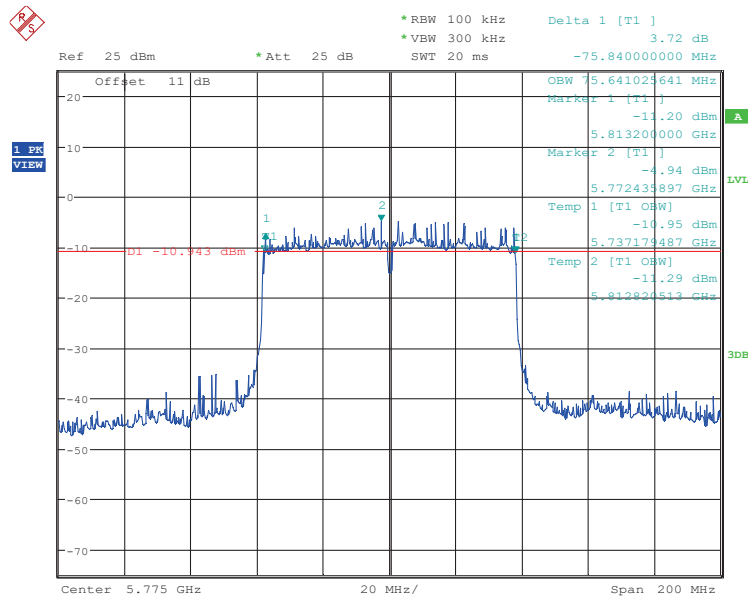
99% OBW & 6DB BANDWIDTH ANT3_11n40_CH151
Date: 18.OCT.2019 17:37:19



99% OBW & 6DB BANDWIDTH ANT3_11n40_CH159
Date: 18.OCT.2019 17:43:49

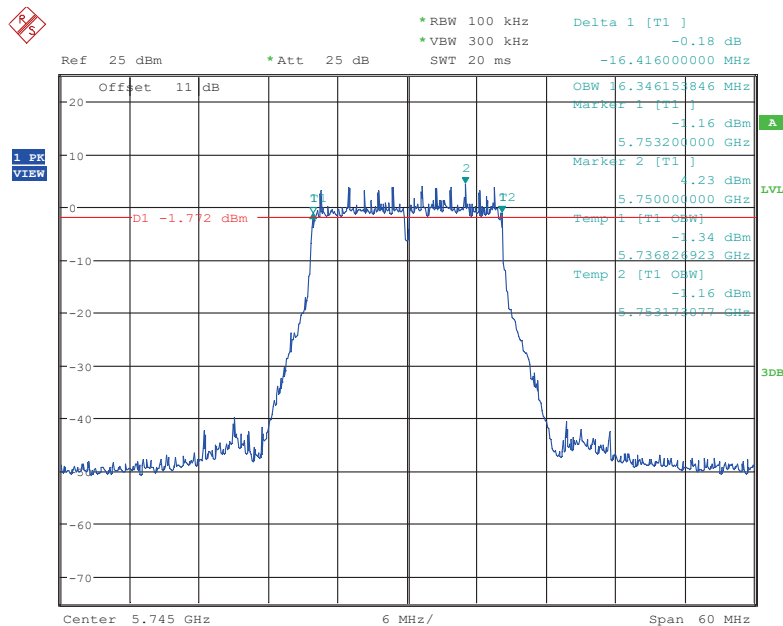


Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



99% OBW & 6DB BANDWIDTH ANT3_11ac80_CH155
Date: 18.OCT.2019 17:56:12

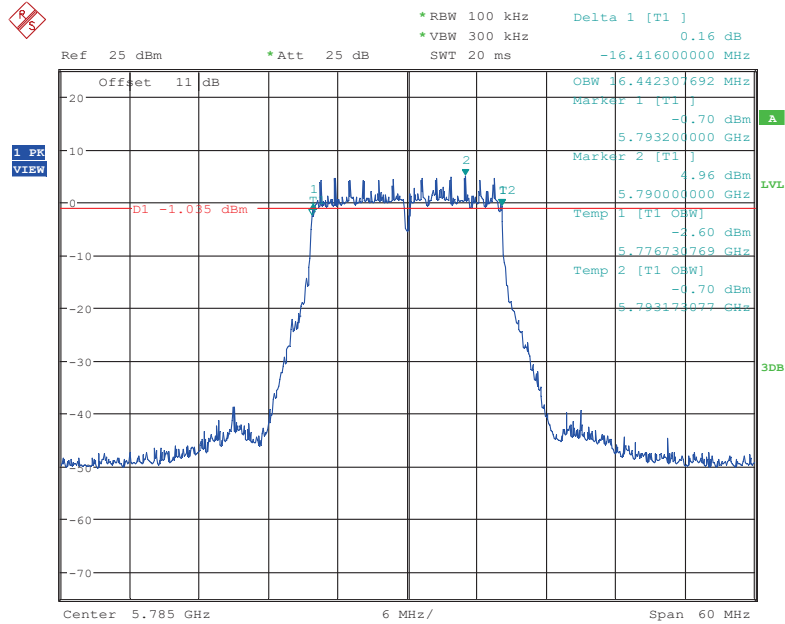
ANT4



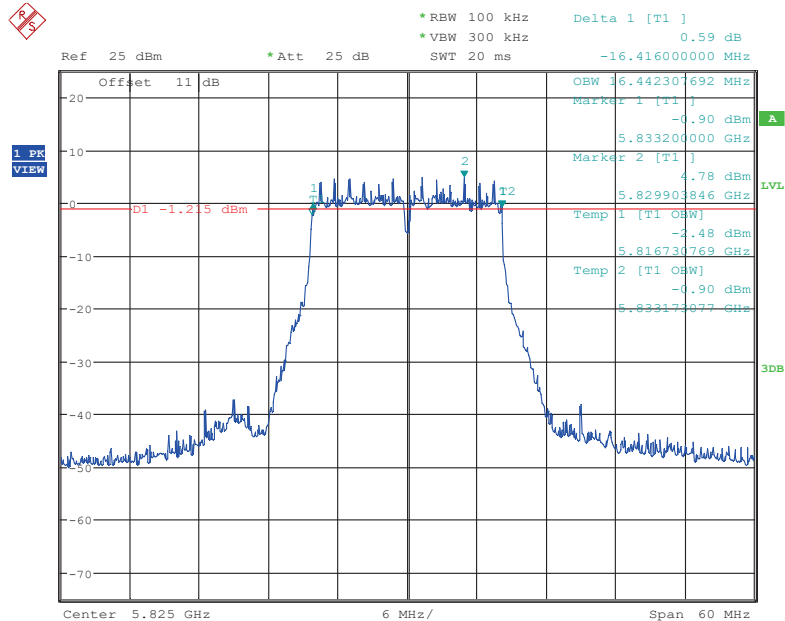
99% OBW & 6DB BANDWIDTH ANT4_11a_CH149
Date: 18.OCT.2019 16:24:10



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



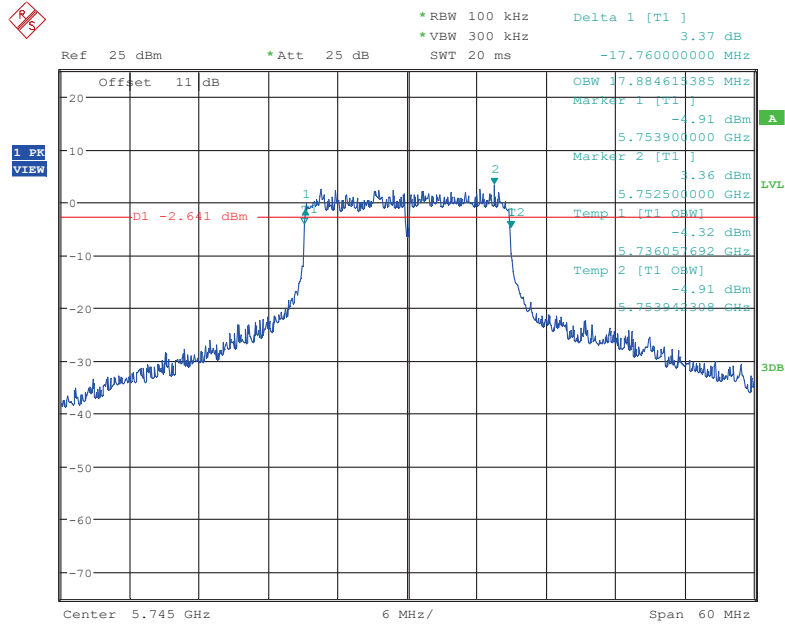
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Date: 18.OCT.2019 16:30:35



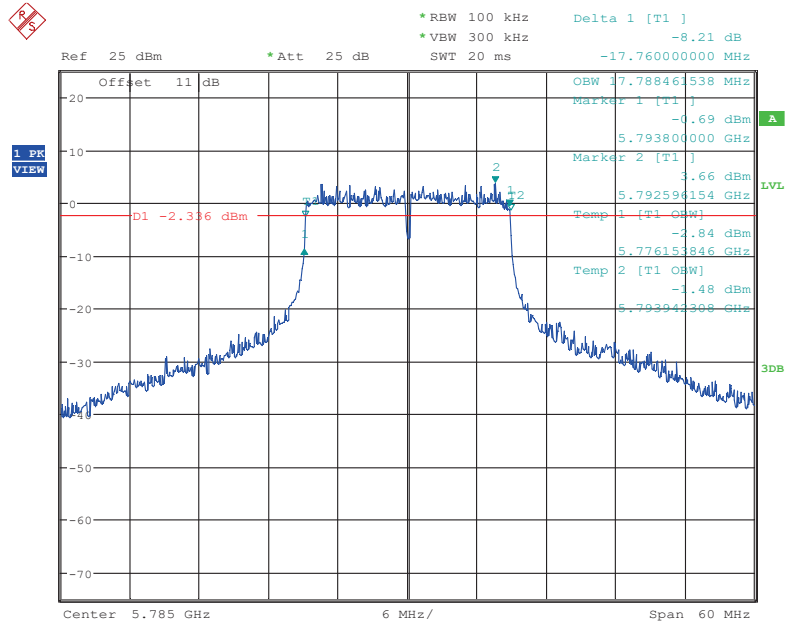
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Date: 18.OCT.2019 16:41:57



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



99% OBW & 6DB BANDWIDTH ANT4_11n20_CH149
Date: 18.OCT.2019 17:09:27

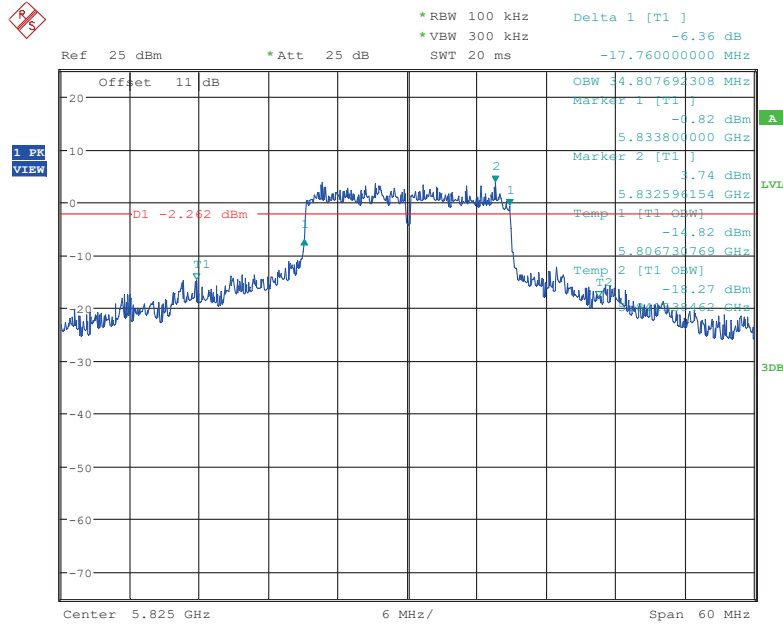


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Date: 18.OCT.2019 17:15:24

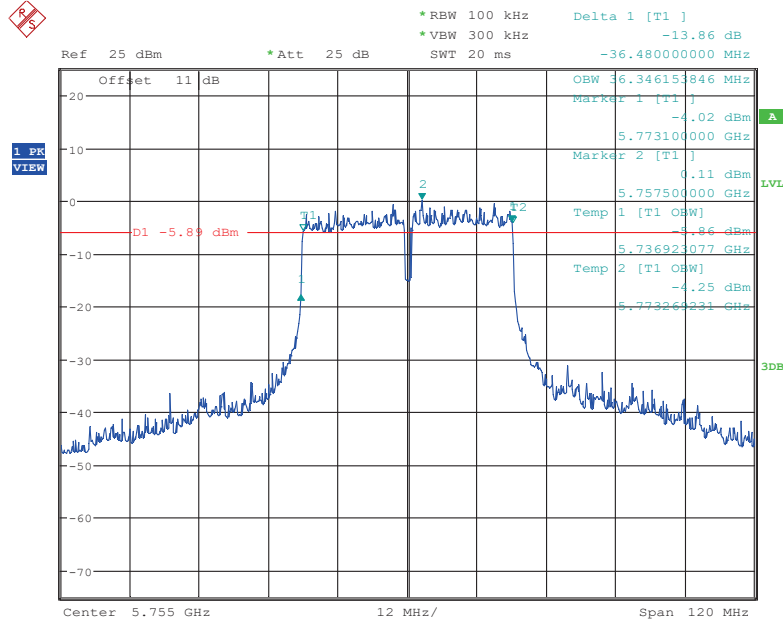


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



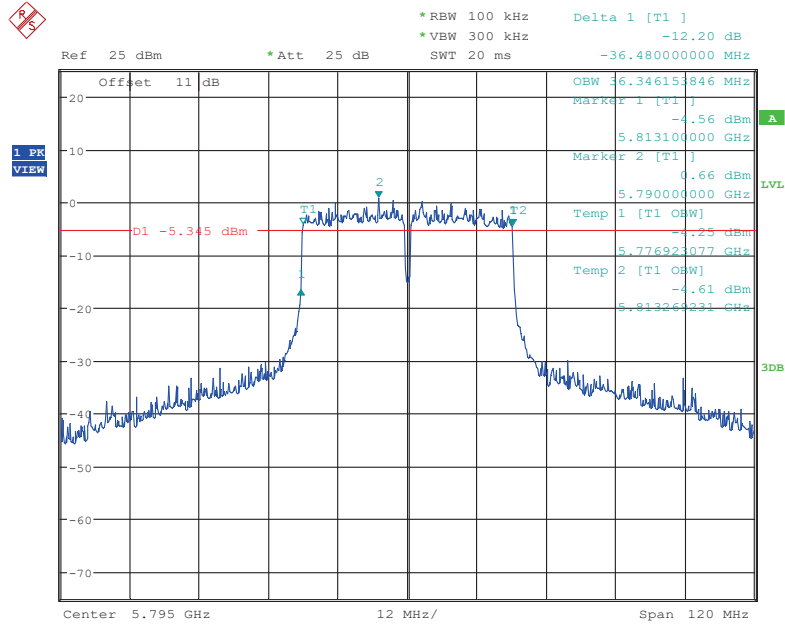
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Date: 18.OCT.2019 17:21:11



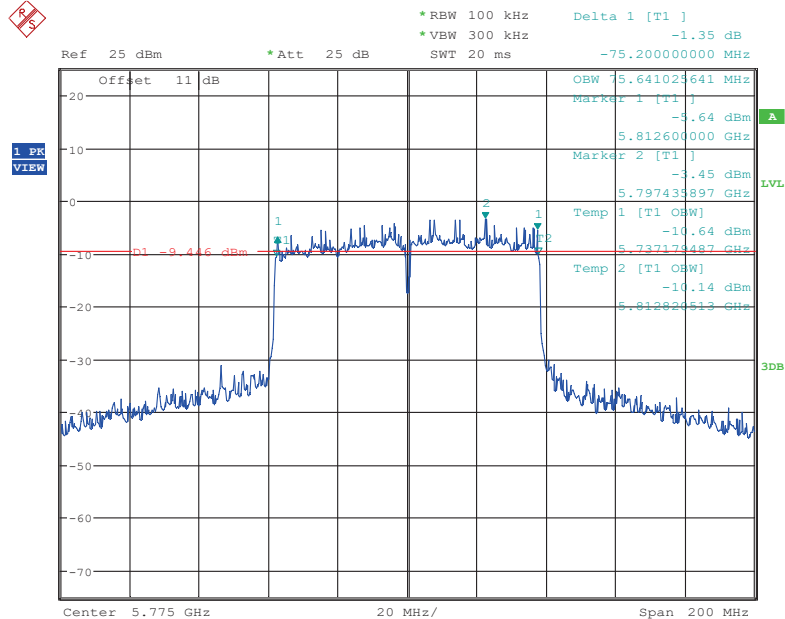
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Date: 18.OCT.2019 17:39:14



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



99% OBW & 6DB BANDWIDTH ANT4_11n40_CH159
Date: 18.OCT.2019 17:45:01



99% OBW & 6DB BANDWIDTH ANT4_11ac80_CH155
Date: 18.OCT.2019 17:58:02



Registration number: W6R22002-19655-C-54-R2

FCC ID: W23-WMXWAVE2AS

3.4 Peak Power Spectral Density, FCC 15.407 (a)

According to §15.407(a)

1. For the band 5.15-5.25 GHz, the peak power spectral density shall not exceed 17 dBm/MHz for master device and 11 dBm/MHz for mobile/portable client device.
2. For the band 5.25-5.35 GHz and 5.47-5.725 GHz, the peak power spectral density shall not exceed 11 dBm/MHz.
3. For the band 5.725-5.850 GHz, the peak power spectral density shall not exceed 30 dBm/500kHz.
4. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

5. According KDB662911 D01 d) i), transmit signals are completely correlated, then

$$\text{Directional gain} = 10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{\text{ANT}}] \text{ dBi}$$

If all antennas have the same gain, G_{ANT} :

$$\text{Directional gain} = G_{\text{ANT}} + 10 \log(N_{\text{ANT}}/N_{\text{SS}}) \text{ dBi}$$

Directional gain :

$$= 3 + 10 \log(4)$$

$$= 9.02 \text{ dBi}$$

6.

Band	Limit	reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.	Limit (consider directional gain)
5.15-5.25 GHz	11 dBm/MHz	3.02	7.98 dBm/MHz
5.25-5.35 GHz	11 dBm/MHz	3.02	7.98 dBm/MHz
5.47-5.725 GHz			
5.725-5.850 GHz	30 dBm/500kHz	3.02	26.98 dBm/500kHz

Test date: September 19, 2022

Temperature: 24.7 °C

Humidity: 53.1 %

Tester: Kent



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6R22002-19655-C-54-R2

FCC ID: W23-WMXWAVE2AS

5.15GHz~5.25GHz

Antenna 1	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	1.361	1.045	1.294	1.34	0.19	1.12
802.11n 40MHz	0.553	--	0.547	-2.57	--	-2.62
802.11ac	0.27	--	--	-5.69	--	--
Antenna 2	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	1.057	0.865	0.927	0.24	-0.63	-0.33
802.11n 40MHz	0.524	--	0.538	-2.81	--	-2.69
802.11ac	0.206	--	--	-6.86	--	--
Antenna 3	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	0.964	0.871	1.079	-0.16	-0.6	0.33
802.11n 40MHz	0.302	--	0.337	-5.2	--	-4.73
802.11ac	0.151	--	--	-8.21	--	--
Antenna 4	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	0.914	0.764	0.951	-0.39	-1.17	-0.22
802.11n 40MHz	0.46	--	0.467	-3.37	--	-3.31
802.11ac	0.229	--	--	-6.4	--	--
Combine	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	4.296	3.545	4.251	6.33	5.50	6.29
802.11n 40MHz	1.839	--	1.889	2.65	--	2.76
802.11ac	0.856	--	--	-0.68	--	--



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6R22002-19655-C-54-R2

FCC ID: W23-WMXWAVE2AS

5.25GHz~5.35GHz

Antenna 1	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	0.789	0.658	0.516	-1.03	-1.82	-2.87
802.11n 40MHz	0.225	--	0.31	-6.47	--	-5.09
802.11ac	0.202	--	--	-6.95	--	--
Antenna 2	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	0.515	0.387	0.249	-2.88	-4.12	-6.04
802.11n 40MHz	0.208	--	0.283	-6.82	--	-5.48
802.11ac	0.149	--	--	-8.28	--	--
Antenna 3	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	0.644	0.561	0.433	-1.91	-2.51	-3.64
802.11n 40MHz	0.156	--	0.208	-8.06	--	-6.82
802.11ac	0.121	--	--	-9.19	--	--
Antenna 4	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	0.604	0.47	0.392	-2.19	-3.28	-4.07
802.11n 40MHz	0.239	--	0.26	-6.21	--	-5.85
802.11ac	0.15	--	--	-8.24	--	--
Combine	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	2.552	2.076	1.59	4.07	3.17	2.01
802.11n 40MHz	0.828	--	1.061	-0.82	--	0.26
802.11ac	0.622	--	--	-2.06	--	--



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6R22002-19655-C-54-R2

FCC ID: W23-WMXWAVE2AS

5.47GHz~5.725GHz

Antenna 1	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	0.74	0.863	0.47	-1.31	-0.64	-3.28
802.11n 40MHz	0.422	0.498	0.281	-3.75	-3.03	-5.52
802.11ac	0.22	--	--	-6.58	--	--
Antenna 2	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	0.311	0.373	0.252	-5.07	-4.28	-5.98
802.11n 40MHz	0.252	0.282	0.209	-5.99	-5.5	-6.79
802.11ac	0.157	--	--	-8.04	--	--
Antenna 3	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	0.526	0.586	0.339	-2.79	-2.32	-4.7
802.11n 40MHz	0.233	0.274	0.217	-6.32	-5.63	-6.64
802.11ac	0.132	--	--	-8.8	--	--
Antenna 4	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	0.541	0.614	0.324	-2.67	-2.12	-4.9
802.11n 40MHz	0.303	0.333	0.215	-5.19	-4.78	-6.67
802.11ac	0.204	--	--	-6.9	--	--
Combine	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	2.118	2.436	1.385	3.26	3.87	1.41
802.11n 40MHz	1.21	1.387	0.922	0.83	1.42	-0.35
802.11ac	0.713	--	--	-1.47	--	--



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6R22002-19655-C-54-R2

FCC ID: W23-WMXWAVE2AS

5.725GHz~5.85GHz

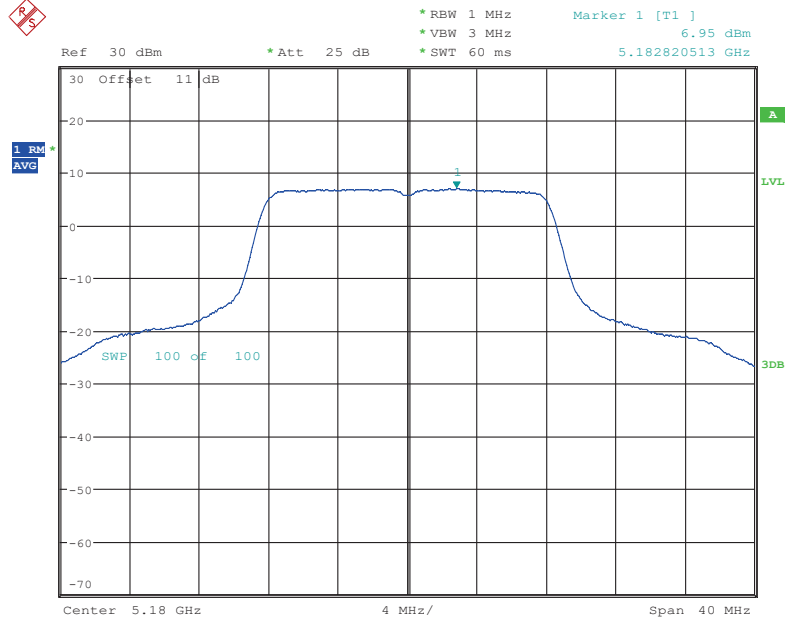
Antenna 1	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	1.151	1	0.973	0.61	0	-0.12
802.11n 40MHz	0.441	--	0.415	-3.56	--	-3.82
802.11ac	0.185	--	--	-7.32	--	--
Antenna 2	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	0.619	0.5	0.603	-2.08	-3.01	-2.2
802.11n 40MHz	0.296	--	0.276	-5.29	--	-5.59
802.11ac	0.142	--	--	-8.49	--	--
Antenna 3	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	0.914	0.778	0.794	-0.39	-1.09	-1
802.11n 40MHz	0.281	--	0.325	-5.52	--	-4.88
802.11ac	0.158	--	--	-8.01	--	--
Antenna 4	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	0.893	0.771	0.774	-0.49	-1.13	-1.11
802.11n 40MHz	0.349	--	0.372	-4.57	--	-4.3
802.11ac	0.164	--	--	-7.84	--	--
Combine	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	3.577	3.049	3.144	5.54	4.84	4.98
802.11n 40MHz	1.367	--	1.388	1.36	--	1.42
802.11ac	0.649	--	--	-1.88	--	--



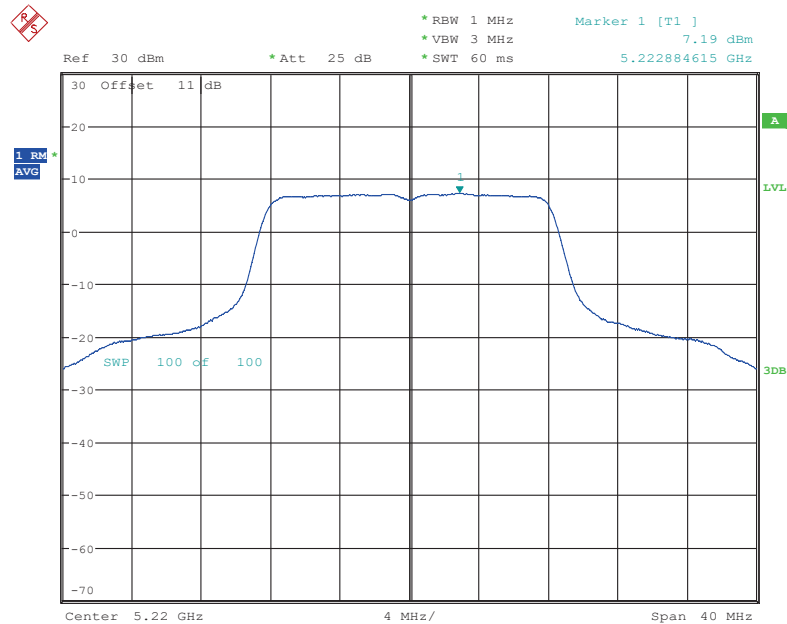
Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS

ANT1

5.15 GHz ~ 5.25 GHz



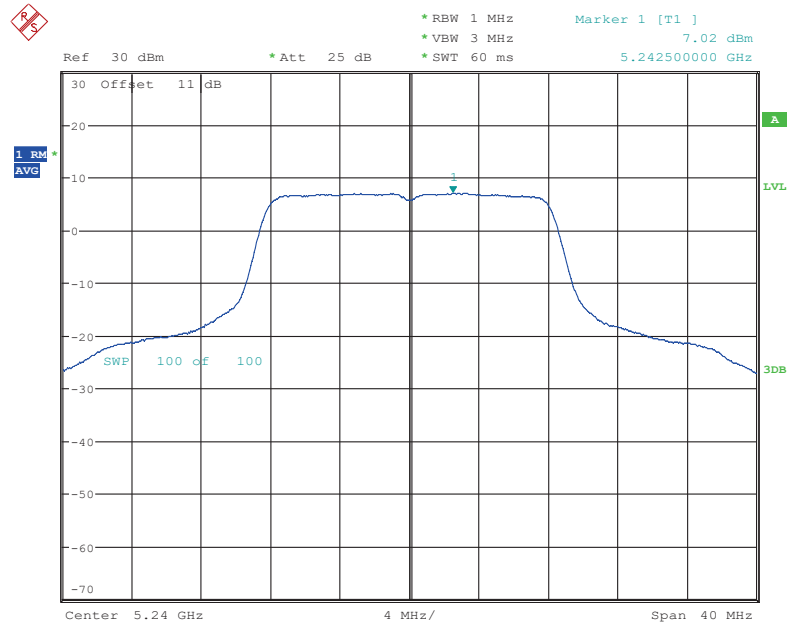
POWER DENSITY AV ANT111aCH36
Date: 19.SEP.2022 14:48:55



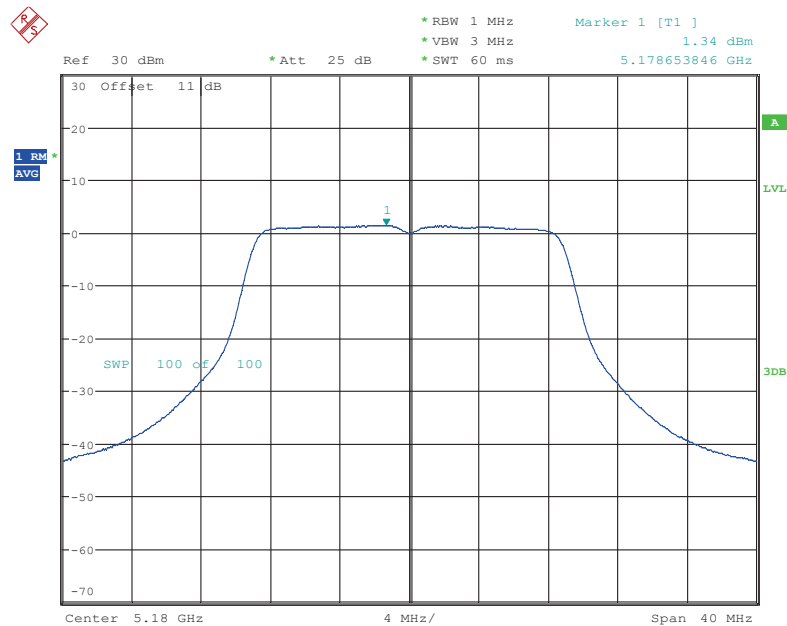
POWER DENSITY AV ANT111aCH44
Date: 19.SEP.2022 14:55:45



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



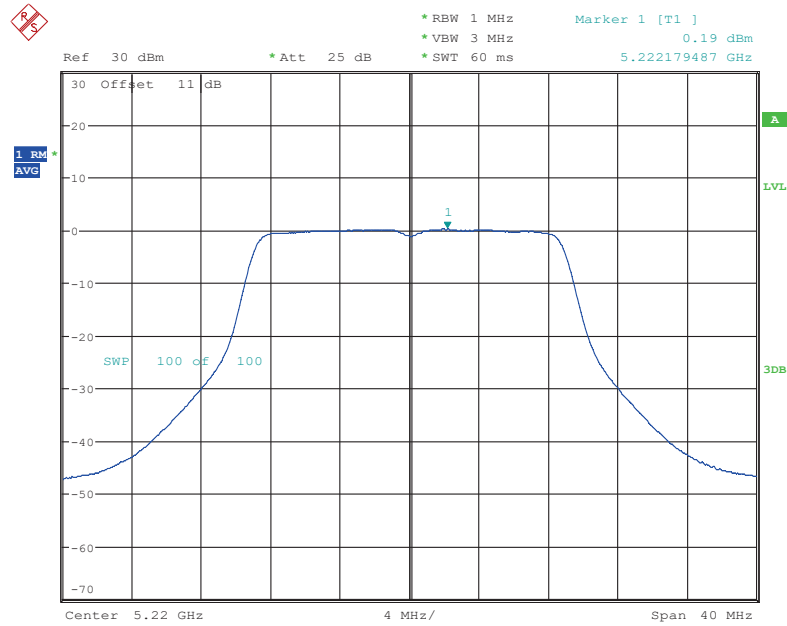
POWER DENSITY AV ANT111aCH48
Date: 19.SEP.2022 15:04:25



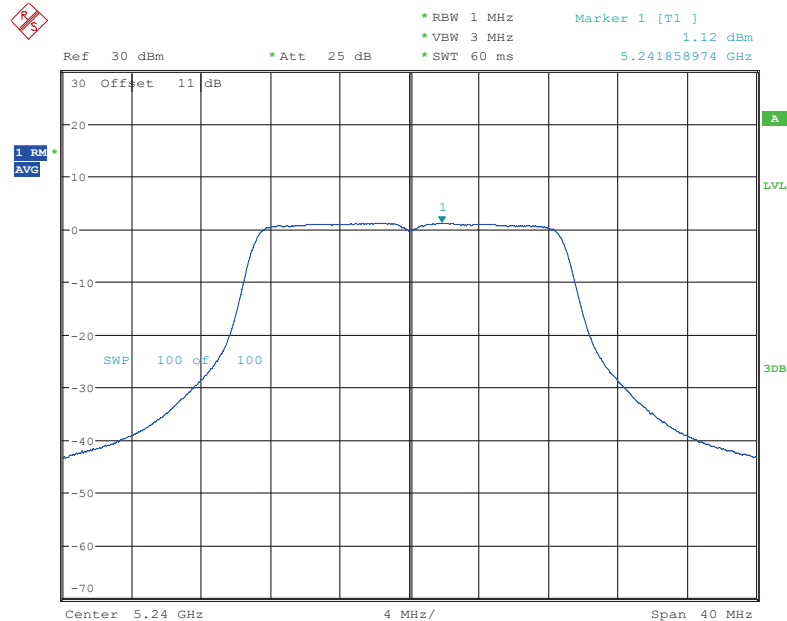
POWER DENSITY AV ANT111n20CH36
Date: 19.SEP.2022 15:12:39



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



POWER DENSITY AV ANT111n20CH44
Date: 19.SEP.2022 15:18:56

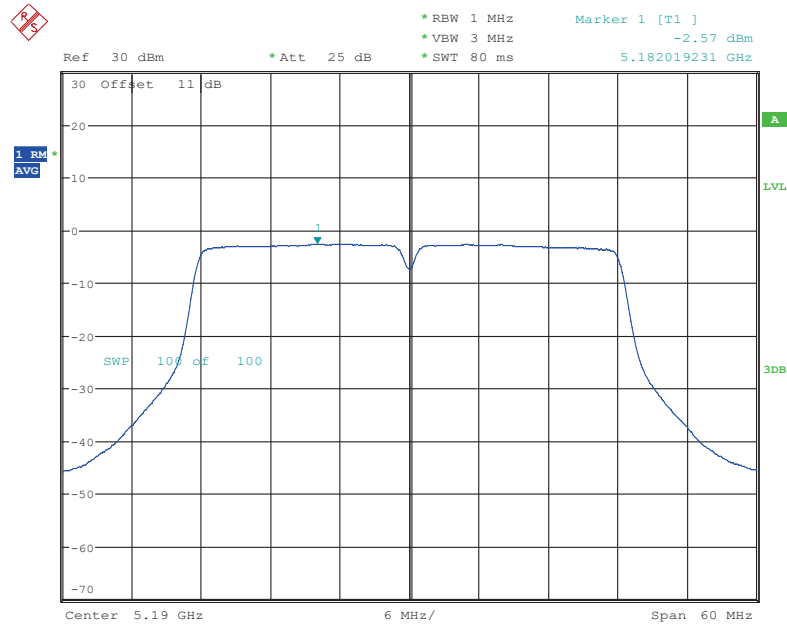


POWER DENSITY AV ANT111n20CH48
Date: 19.SEP.2022 15:23:35

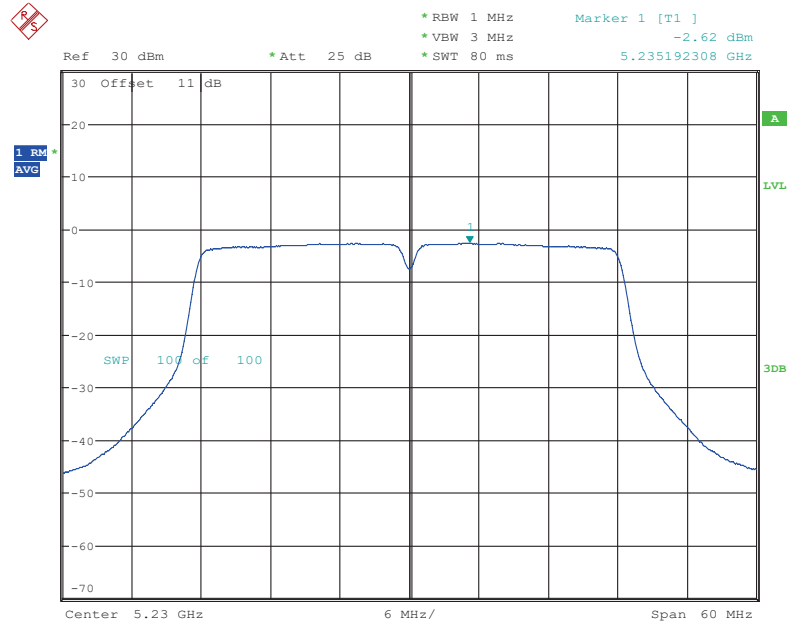


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



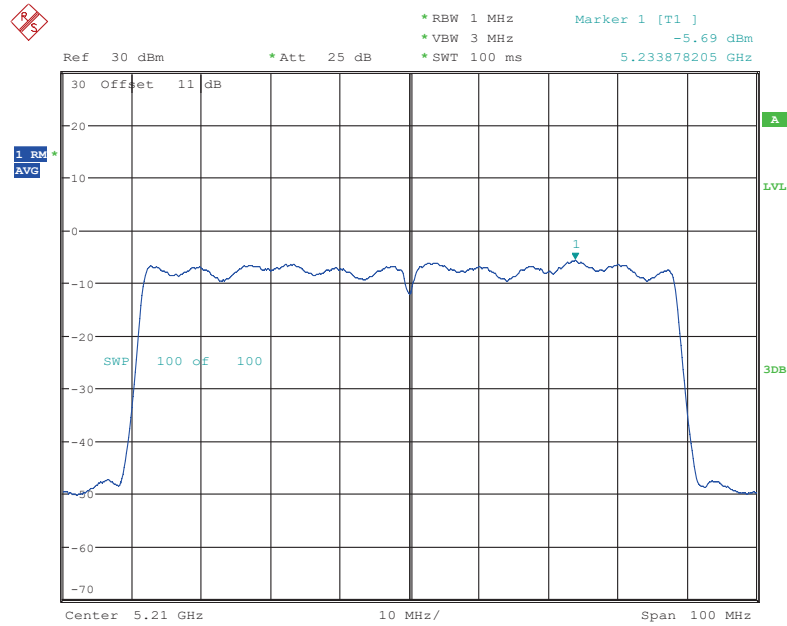
POWER DENSITY AV ANT111n40CH38
Date: 19.SEP.2022 15:33:11



POWER DENSITY AV ANT111n40CH46
Date: 19.SEP.2022 15:38:11

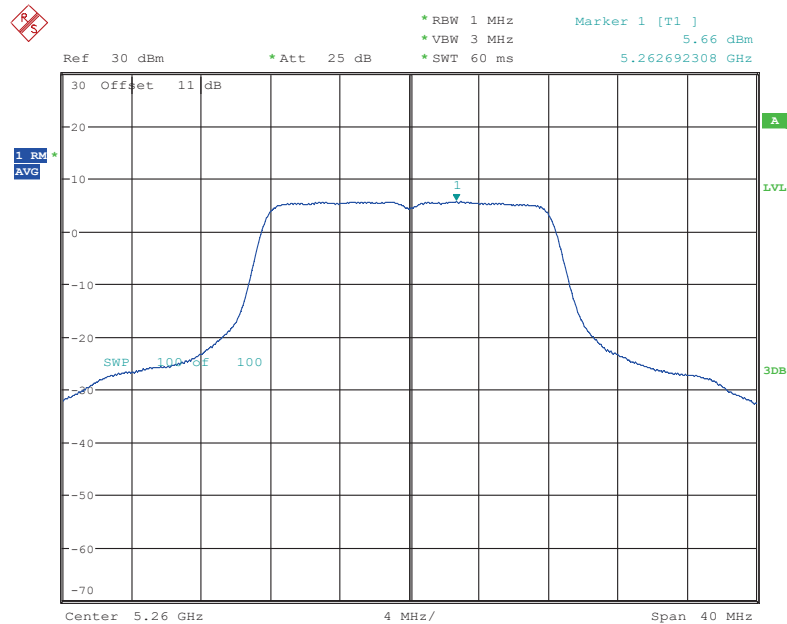


Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



POWER DENSITY AV ANT111ac80CH42
Date: 19.SEP.2022 15:43:29

5.25 GHz ~ 5.35 GHz

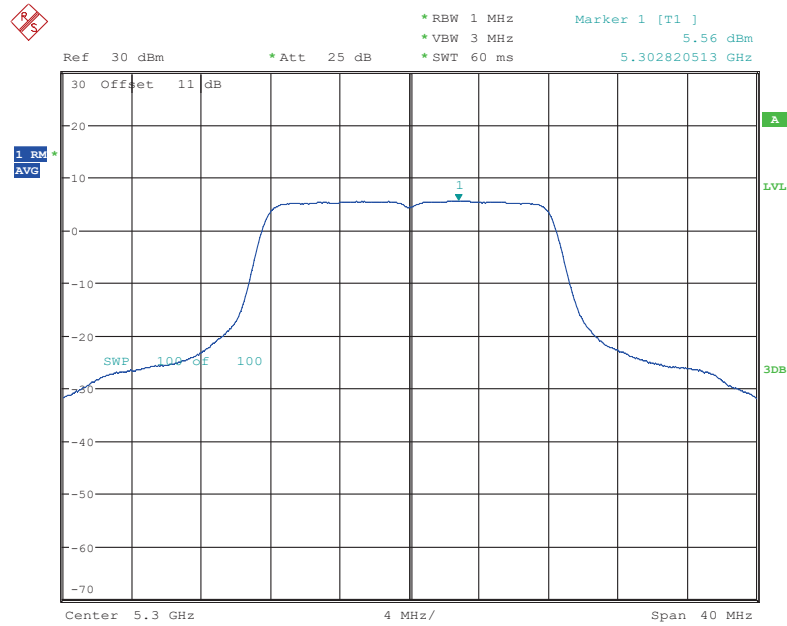


POWER DENSITY AV ANT111aCH52
Date: 19.SEP.2022 15:54:54

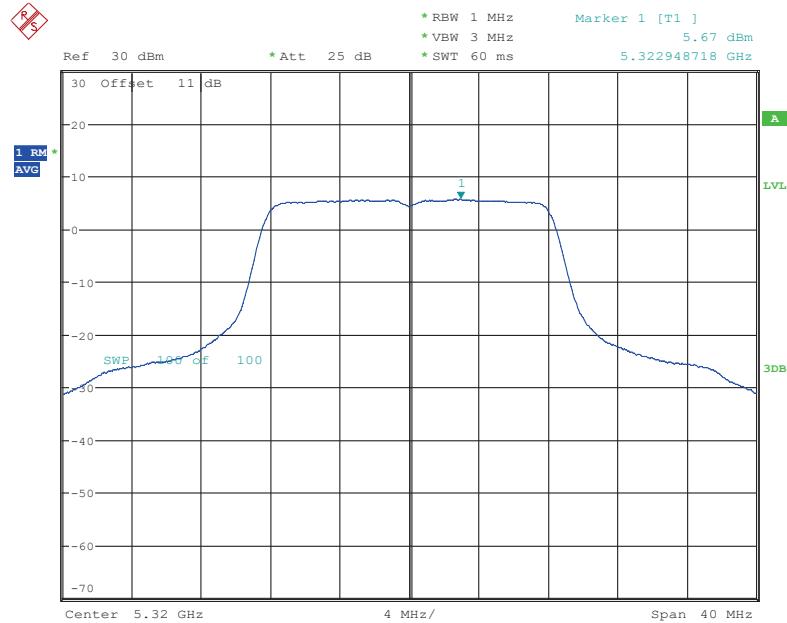


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



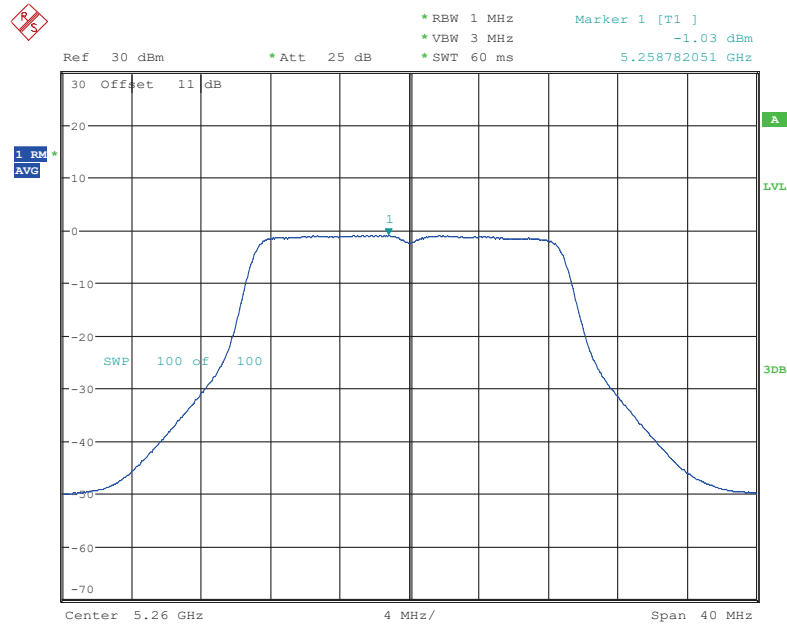
POWER DENSITY AV ANT111aCH60
Date: 19.SEP.2022 16:02:29



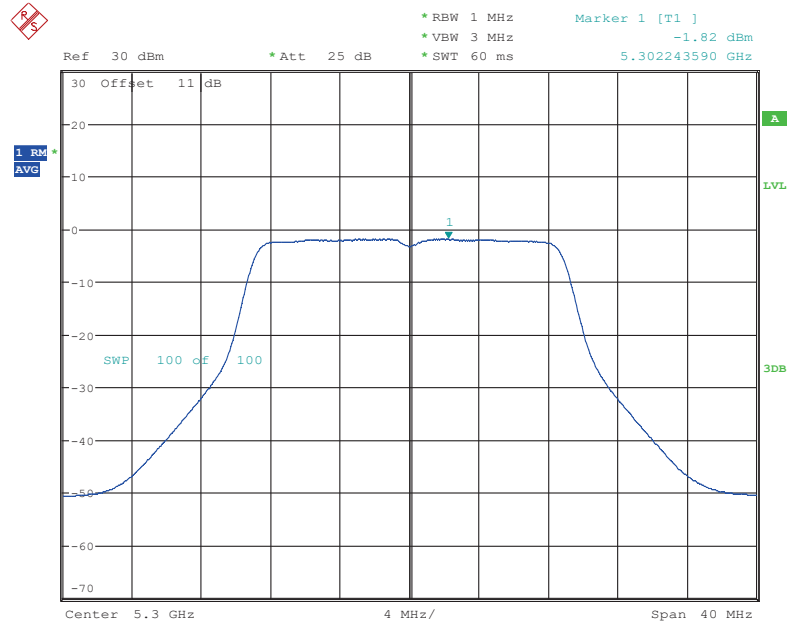
POWER DENSITY AV ANT111aCH64
Date: 19.SEP.2022 16:08:40



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



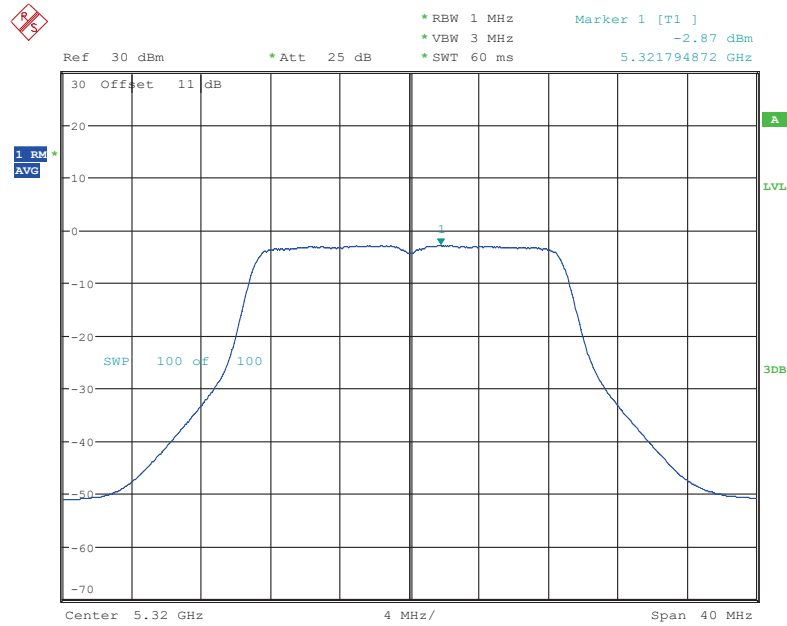
POWER DENSITY AV ANT111n20CH52
Date: 19.SEP.2022 16:15:29



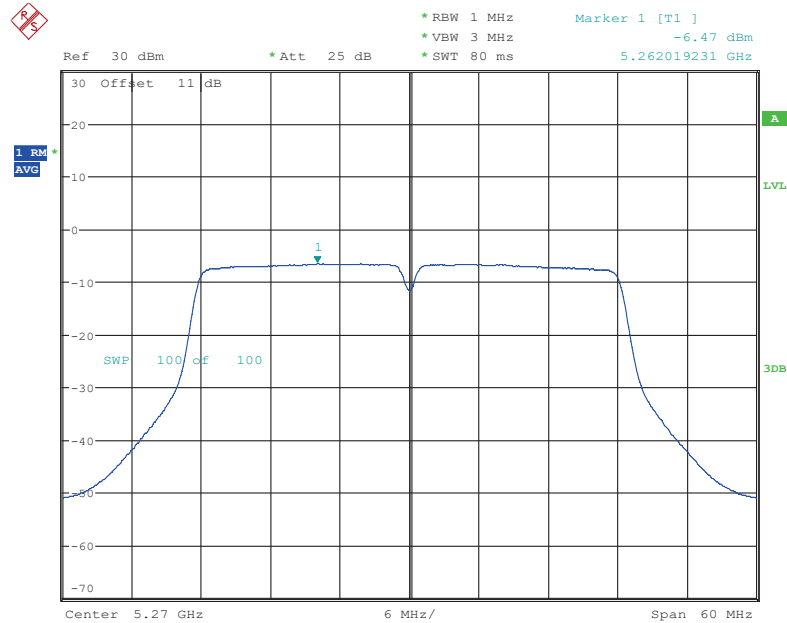
POWER DENSITY AV ANT111n20CH60
Date: 19.SEP.2022 16:20:09



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



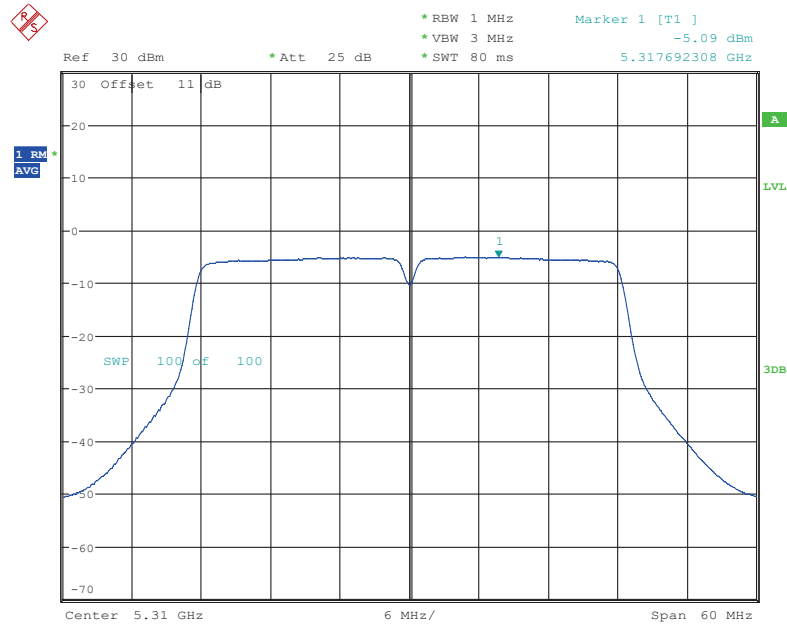
POWER DENSITY AV ANT111n20CH64
Date: 19.SEP.2022 16:49:11



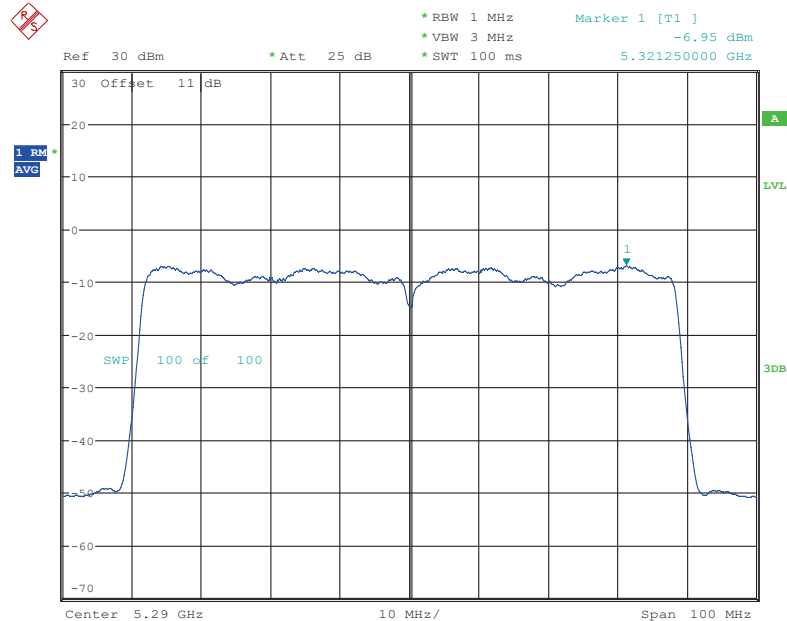
POWER DENSITY AV ANT111n40CH54
Date: 19.SEP.2022 17:01:11



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



POWER DENSITY AV ANT111n40CH62
Date: 19.SEP.2022 17:08:04



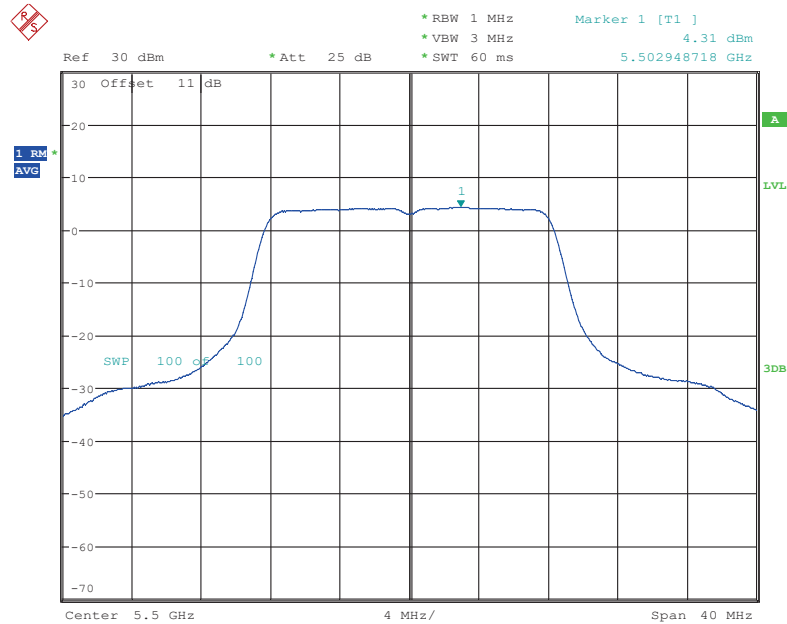
POWER DENSITY AV ANT111ac80CH58
Date: 19.SEP.2022 17:14:10



Registration number: W6R22002-19655-C-54-R2

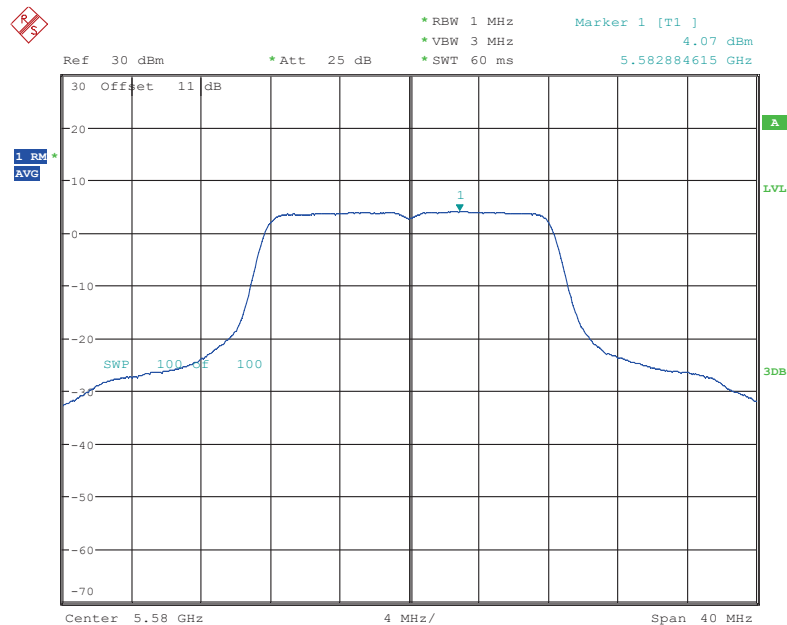
FCC ID: W23-WMXWAVE2AS

5.47 GHz ~ 5.725 GHz



POWER DENSITY AV ANT111aCH100

Date: 19.SEP.2022 17:27:06

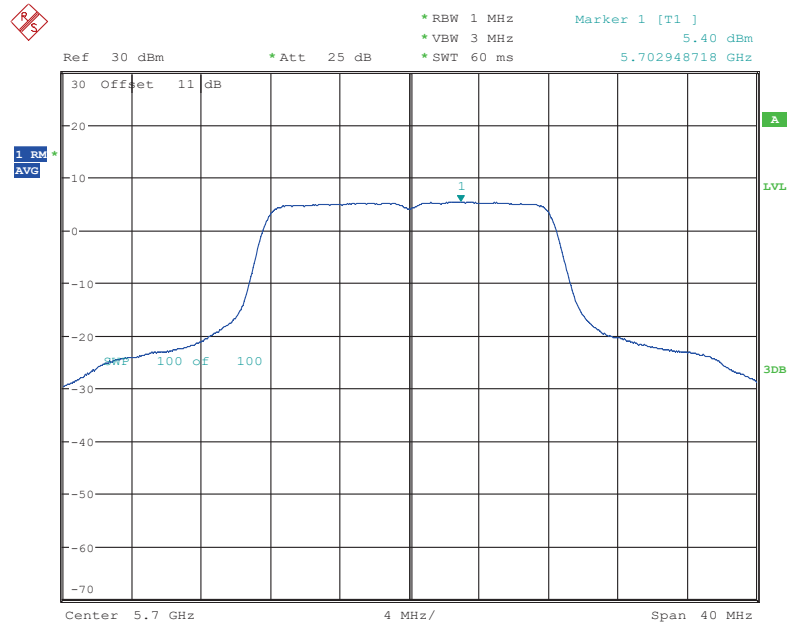


POWER DENSITY AV ANT111aCH116

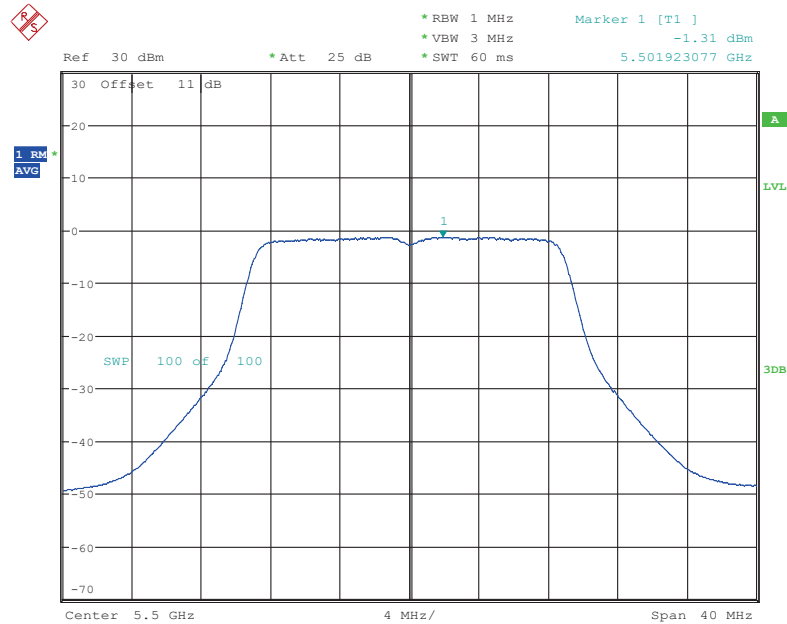
Date: 19.SEP.2022 17:33:36



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



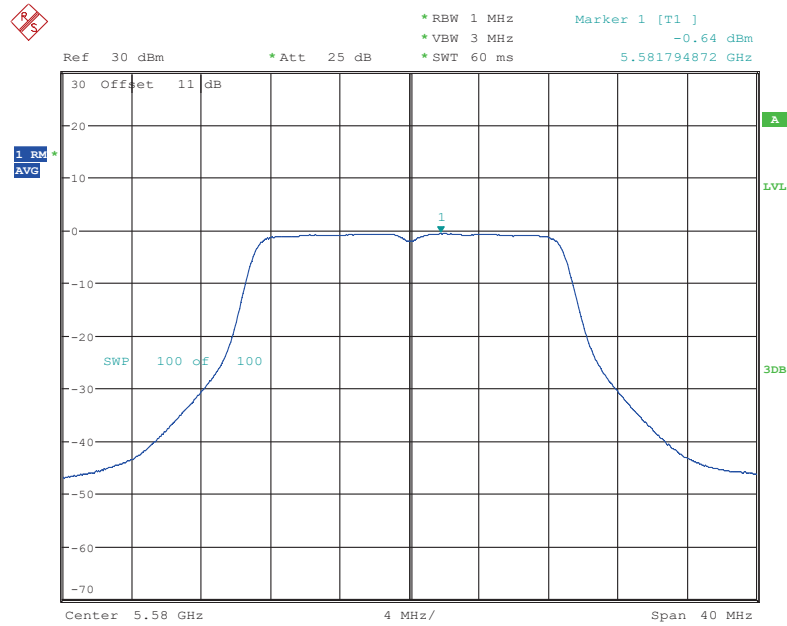
POWER DENSITY AV ANT111aCH140
Date: 19.SEP.2022 17:55:42



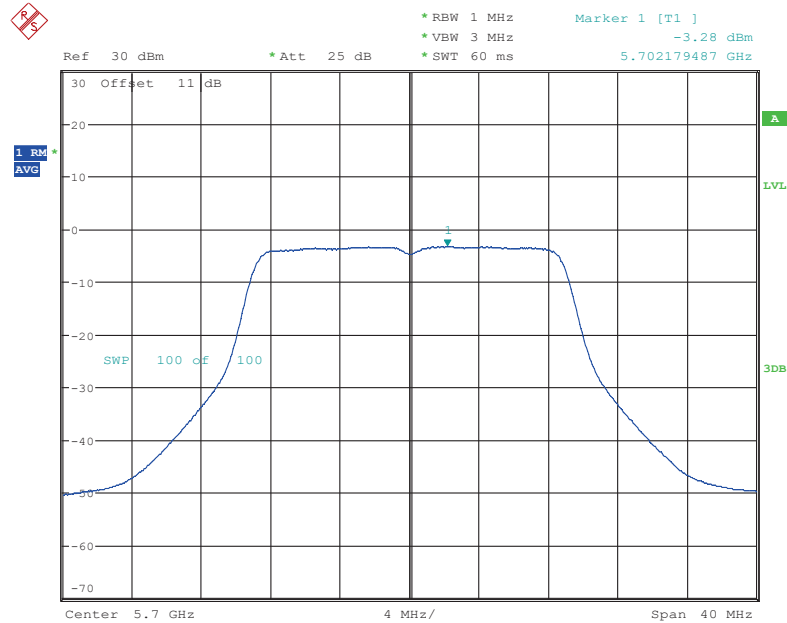
POWER DENSITY AV ANT111n20CH100
Date: 19.SEP.2022 18:40:07



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



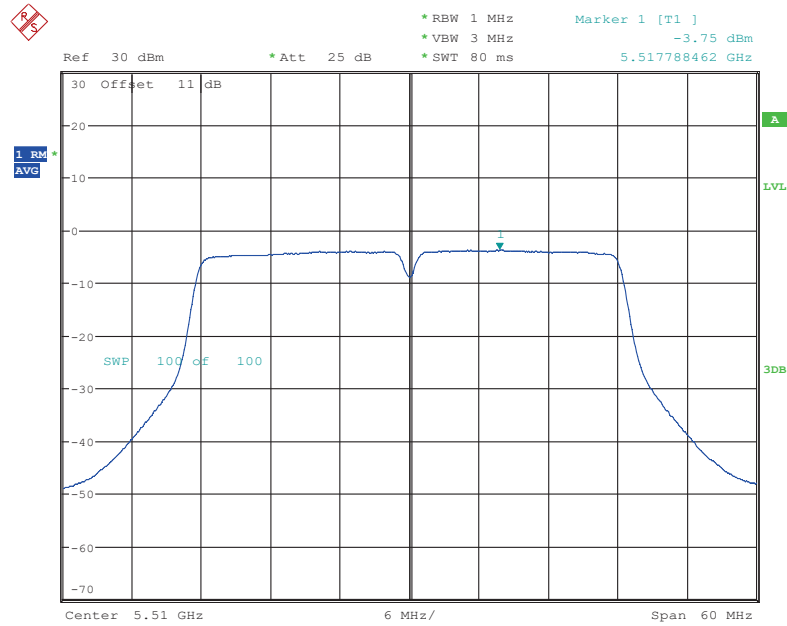
POWER DENSITY AV ANT111n20CH116
Date: 19.SEP.2022 18:49:32



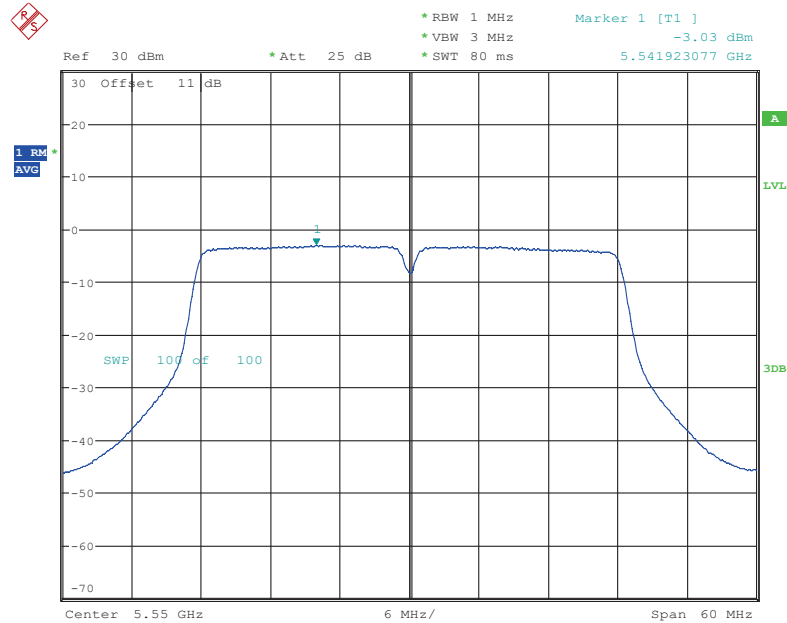
POWER DENSITY AV ANT111n20CH140
Date: 19.SEP.2022 18:55:56



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



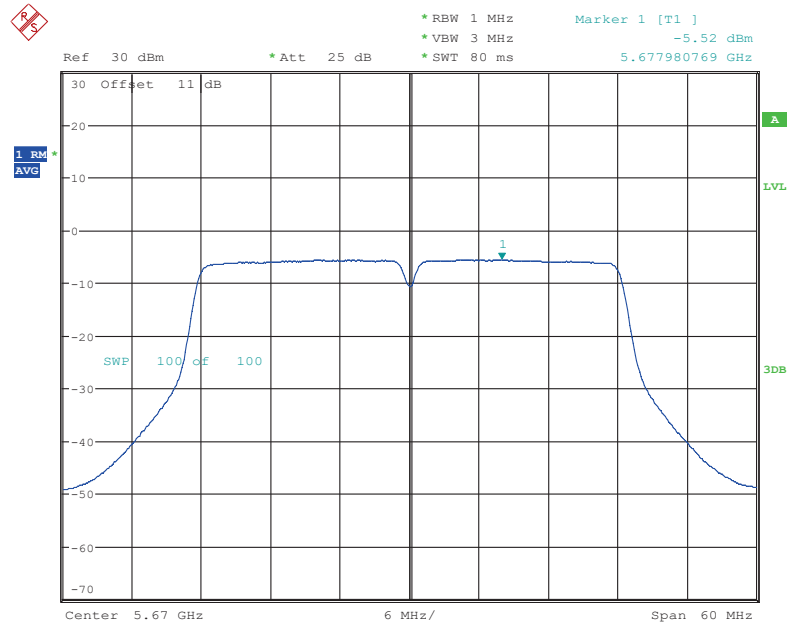
POWER DENSITY AV ANT111n40CH102
Date: 19.SEP.2022 20:29:49



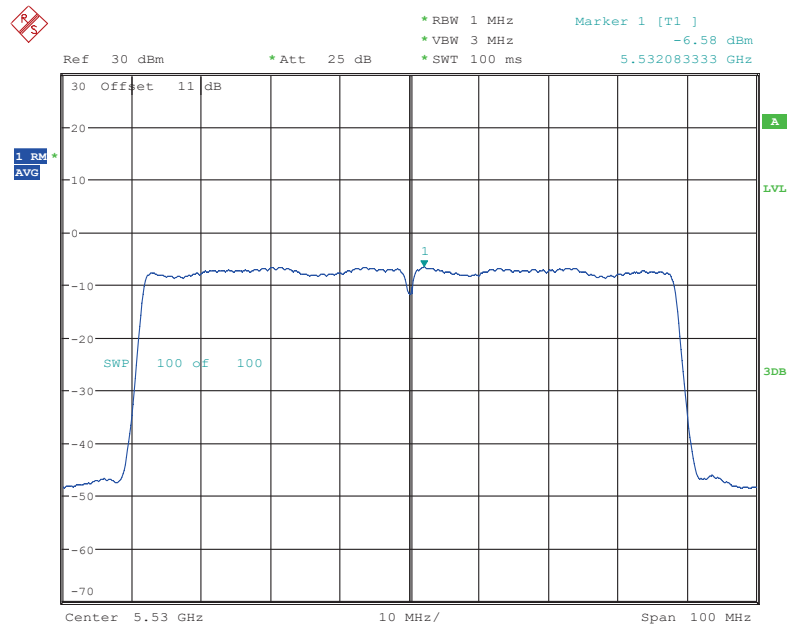
POWER DENSITY AV ANT111n40CH110
Date: 19.SEP.2022 20:35:42



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



POWER DENSITY AV ANT111n40CH134
Date: 19.SEP.2022 20:40:34



POWER DENSITY AV ANT111ac80CH106
Date: 19.SEP.2022 20:47:48

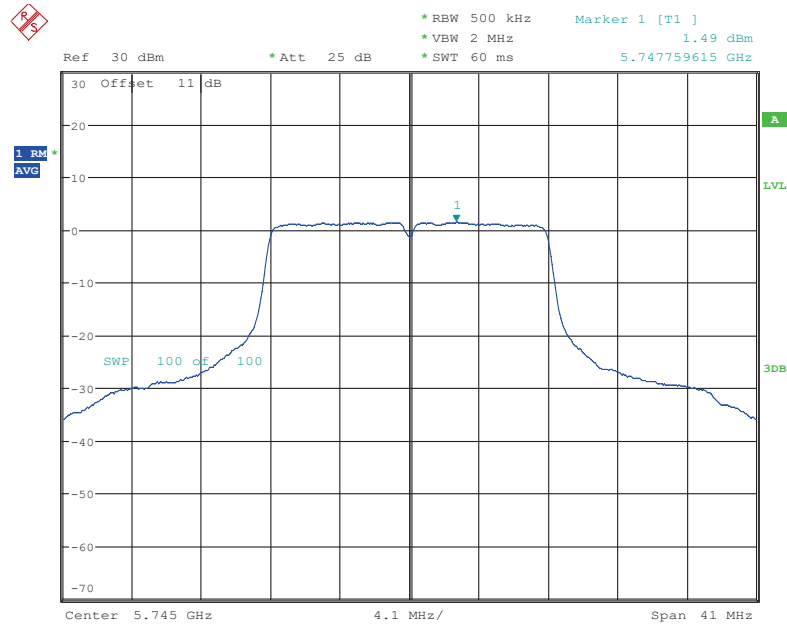


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Registration number: W6R22002-19655-C-54-R2

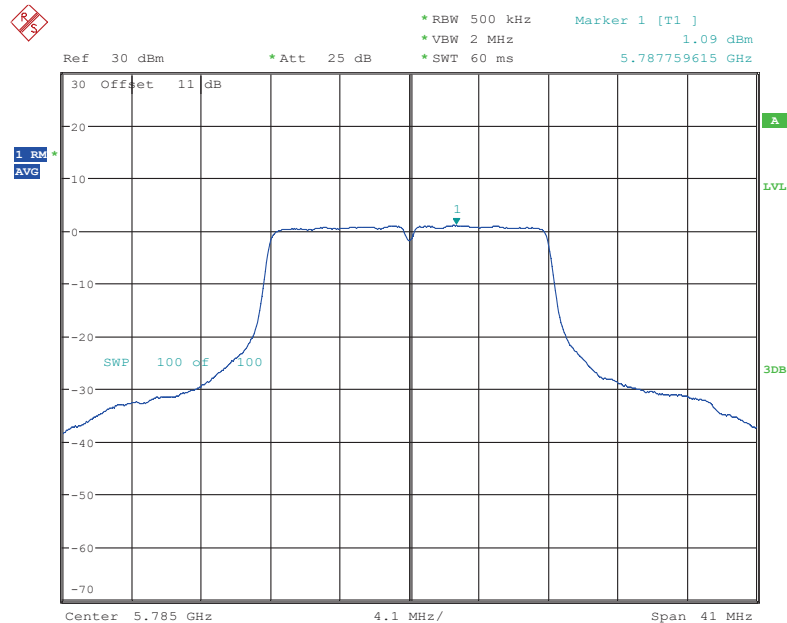
FCC ID: W23-WMXWAVE2AS

5.725 GHz ~ 5.85 GHz



POWER DENSITY AV ANT111aCH149

Date: 19.SEP.2022 22:02:03

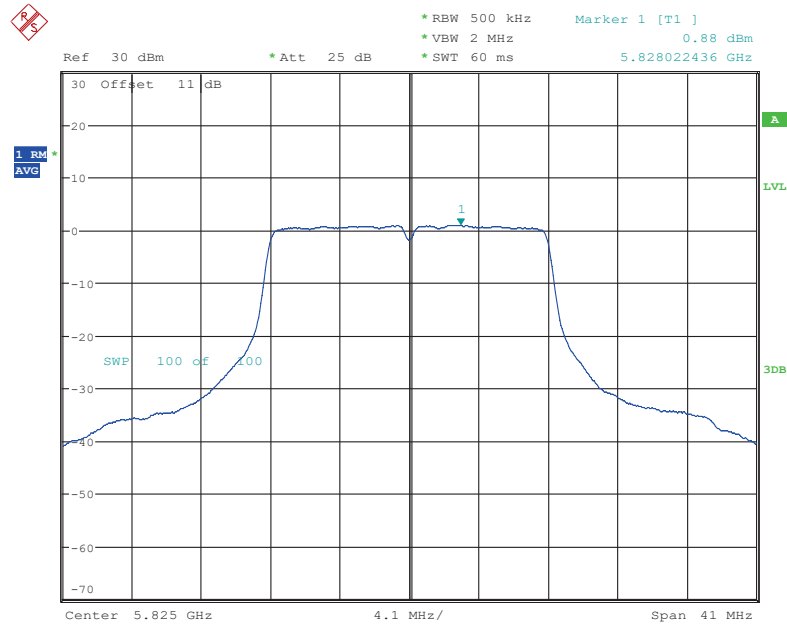


POWER DENSITY AV ANT111aCH157

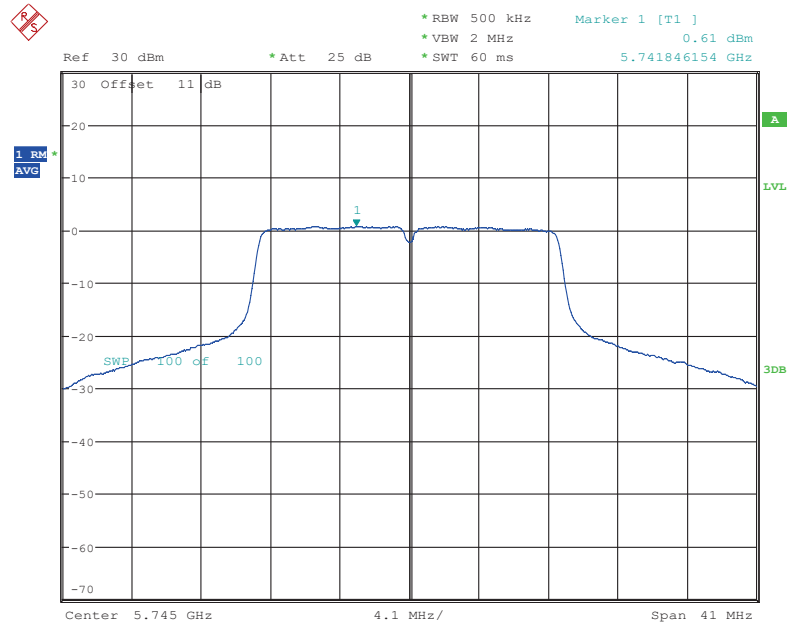
Date: 19.SEP.2022 22:04:39



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



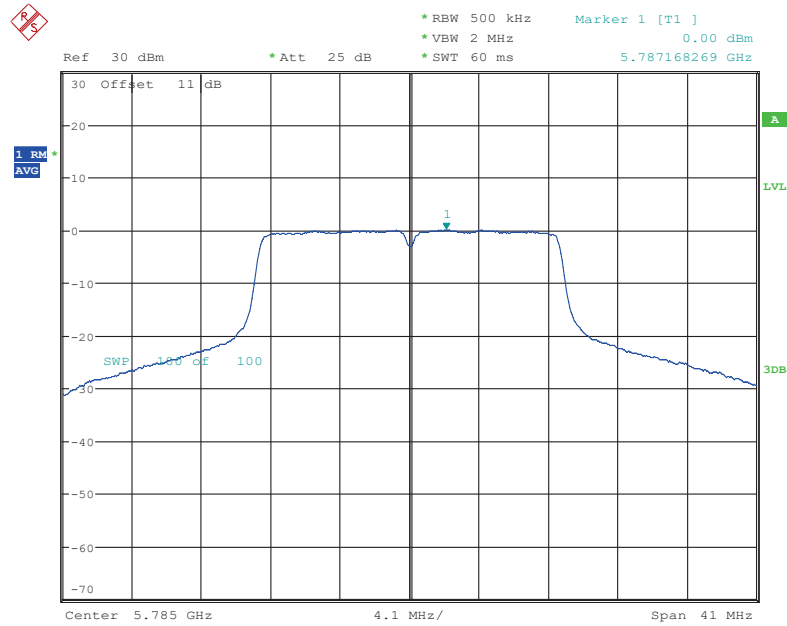
POWER DENSITY AV ANT111aCH165
Date: 19.SEP.2022 22:06:41



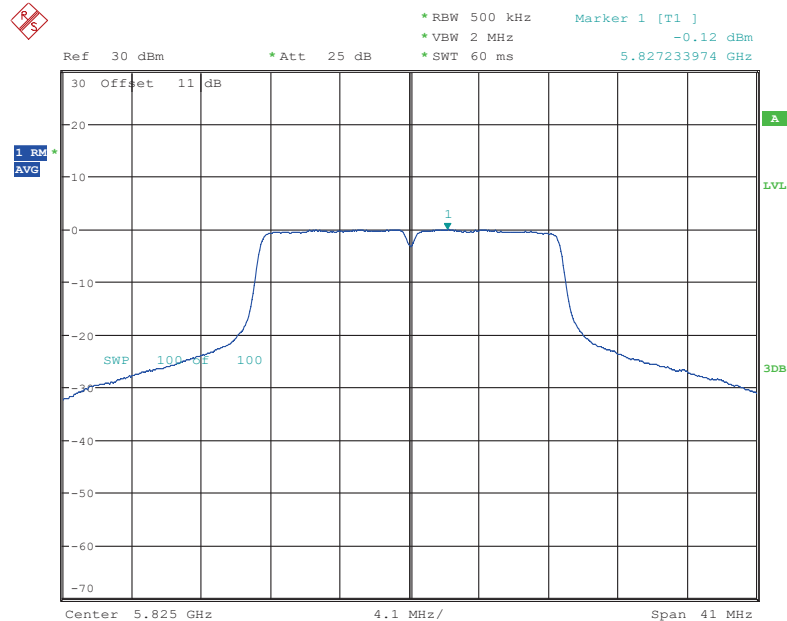
POWER DENSITY AV ANT111n20CH149
Date: 19.SEP.2022 22:09:52



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



POWER DENSITY AV ANT111n20CH157
Date: 19.SEP.2022 22:12:18

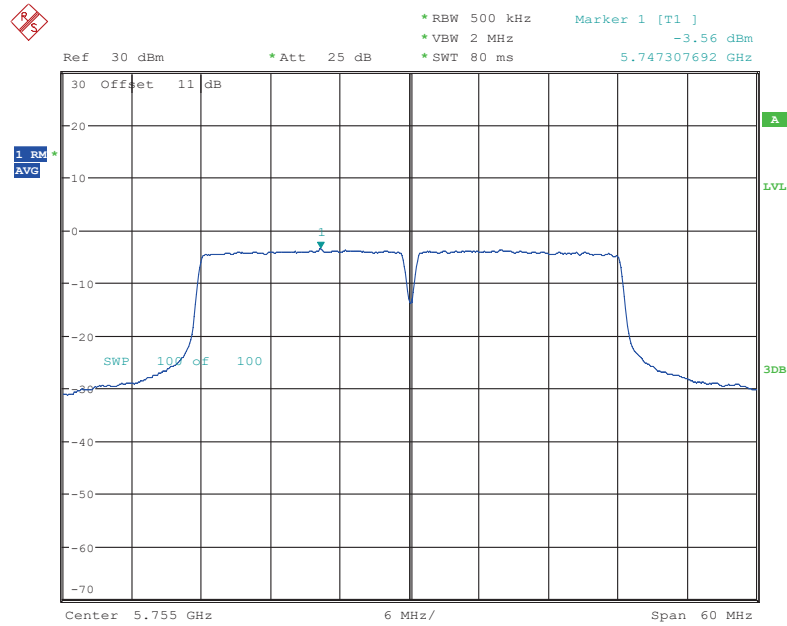


POWER DENSITY AV ANT111n20CH165
Date: 19.SEP.2022 22:14:03

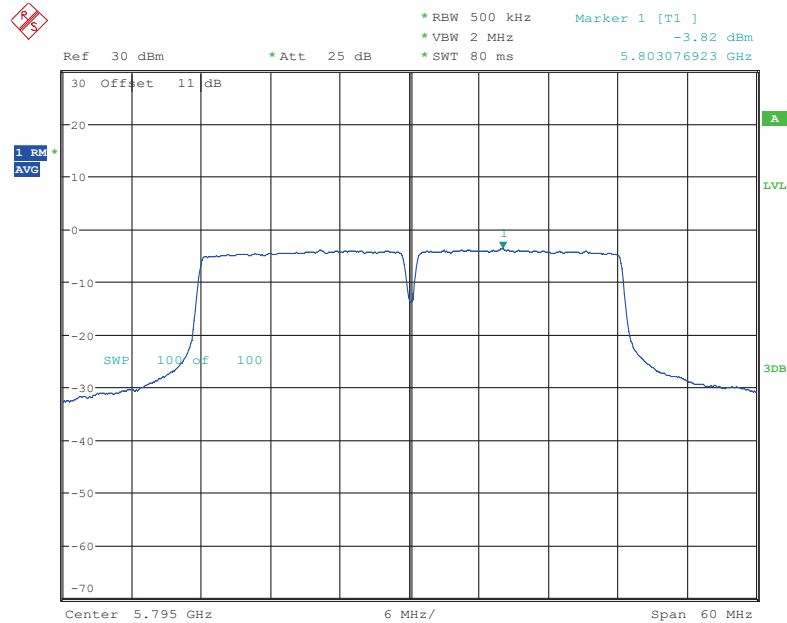


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



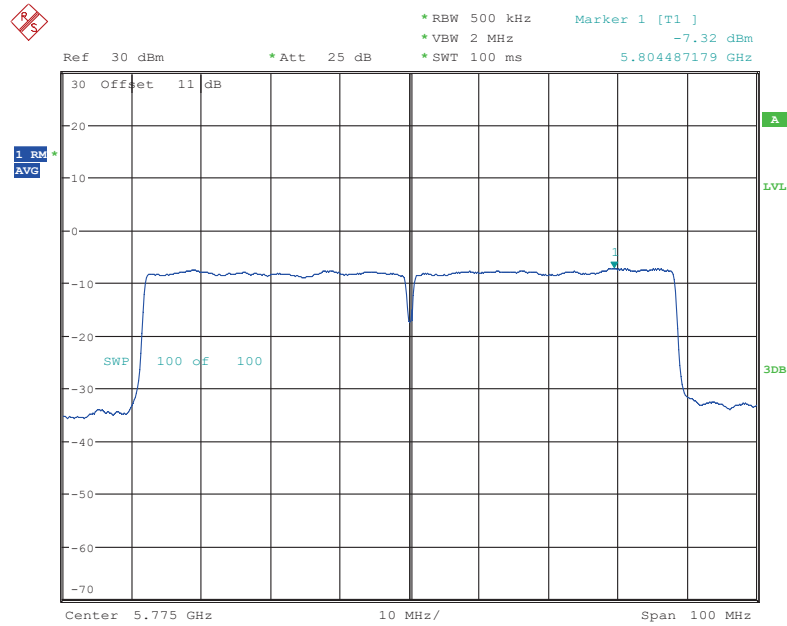
POWER DENSITY AV ANT111n40CH151
Date: 19.SEP.2022 22:17:16



POWER DENSITY AV ANT111n40CH159
Date: 19.SEP.2022 22:19:32

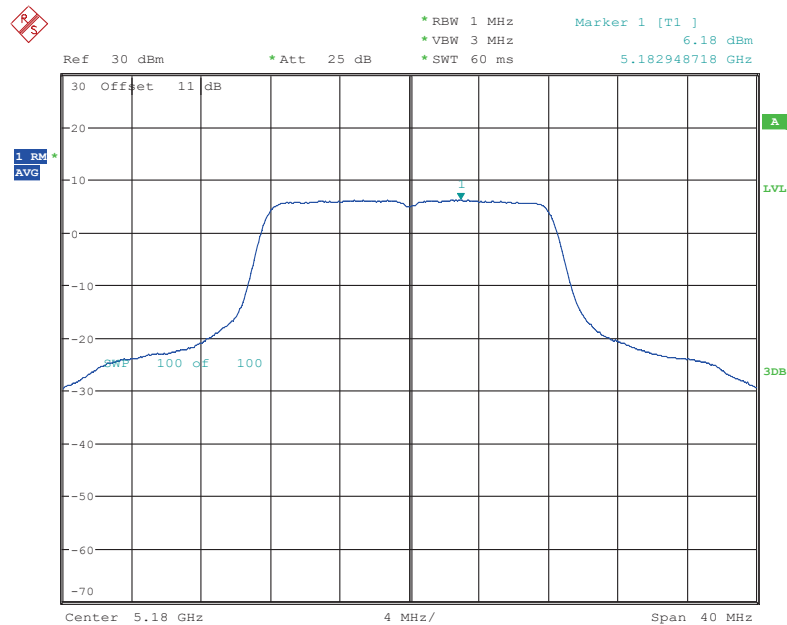


Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



POWER DENSITY AV ANT111ac80CH155
Date: 19.SEP.2022 22:22:15

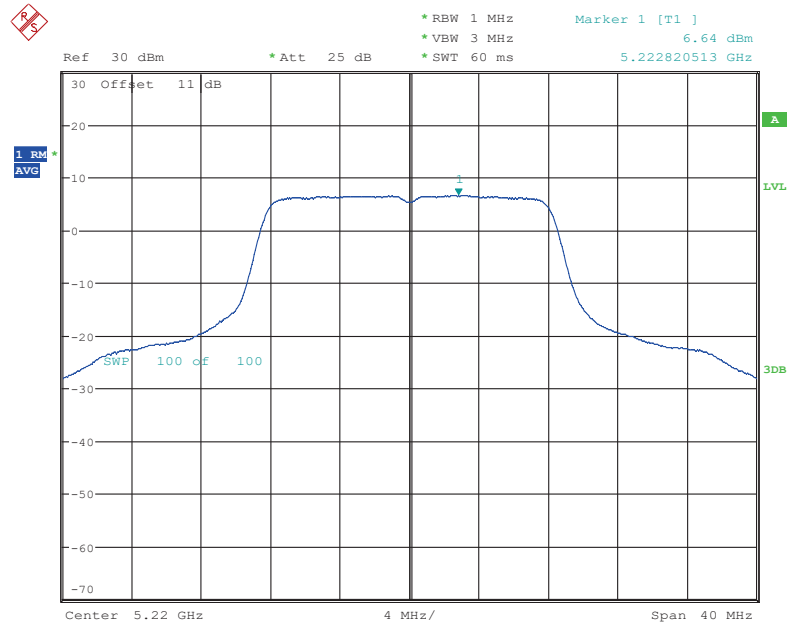
ANT2 5.15 GHz ~ 5.25 GHz



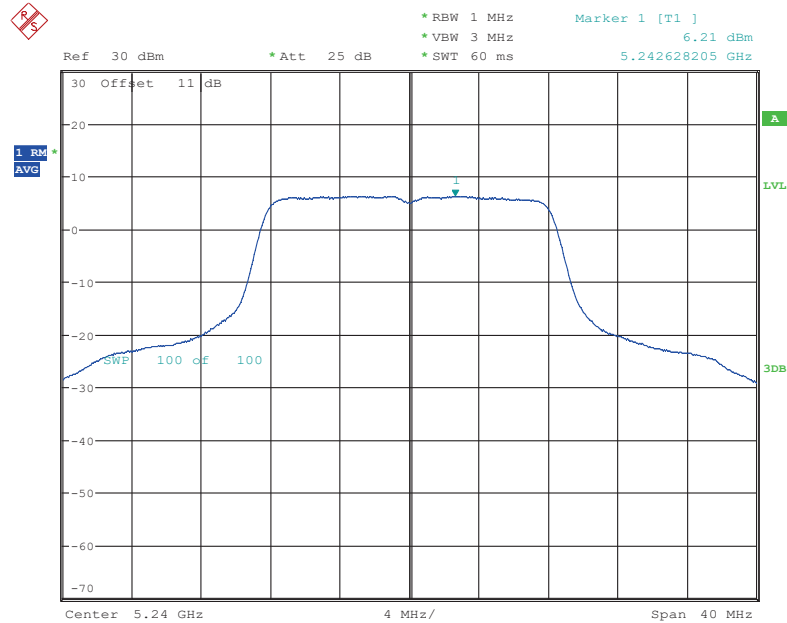
POWER DENSITY AV ANT211aCH36
Date: 19.SEP.2022 14:50:52



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



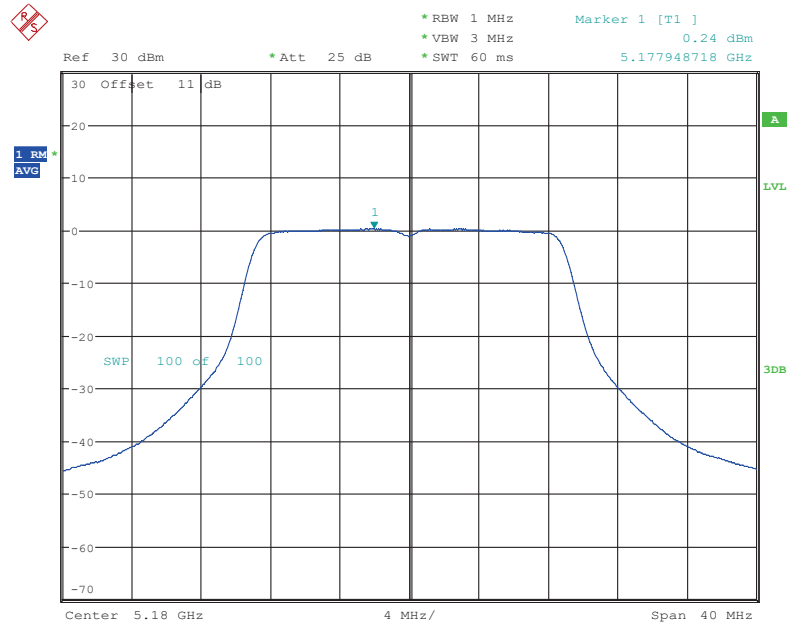
POWER DENSITY AV ANT211aCH44
Date: 19.SEP.2022 14:59:00



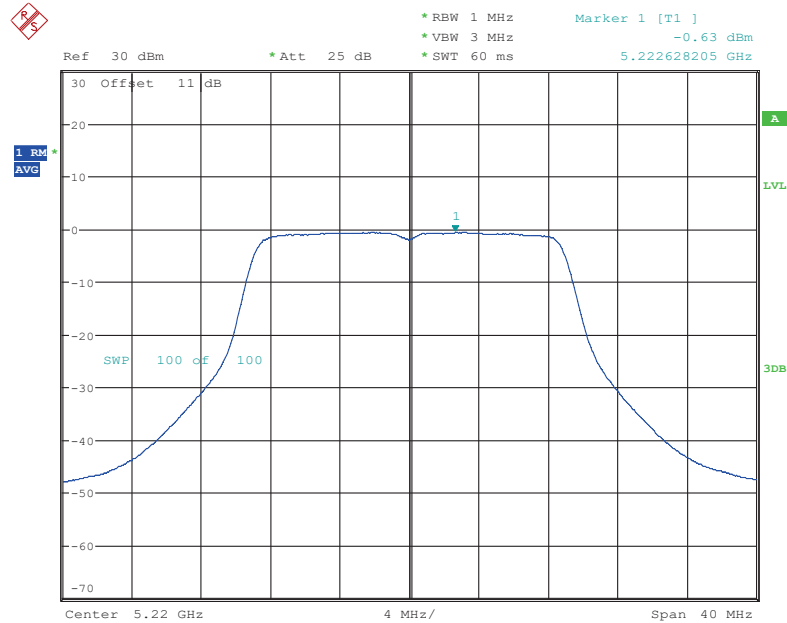
POWER DENSITY AV ANT211aCH48
Date: 19.SEP.2022 15:05:36



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



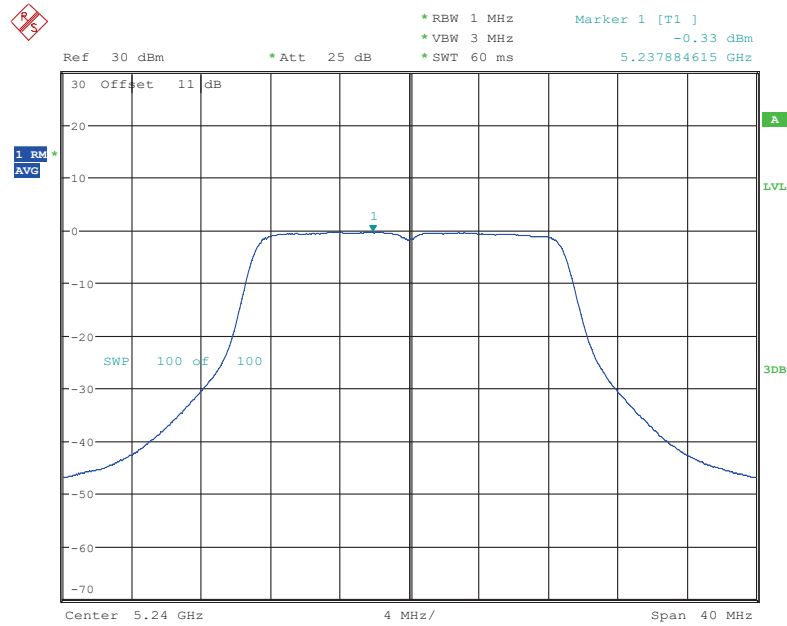
POWER DENSITY AV ANT211n20CH36
Date: 19.SEP.2022 15:13:37



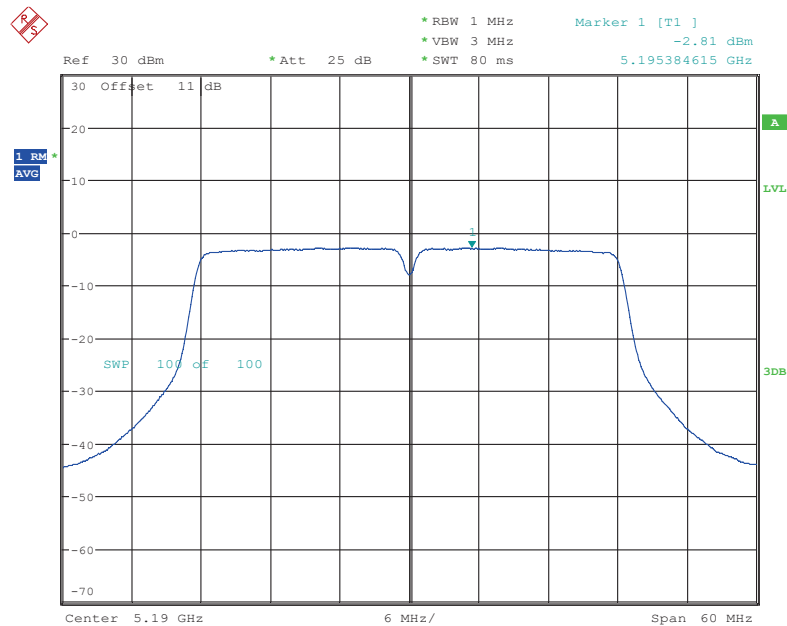
POWER DENSITY AV ANT211n20CH44
Date: 19.SEP.2022 15:20:01



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



POWER DENSITY AV ANT211n20CH48
Date: 19.SEP.2022 15:25:13

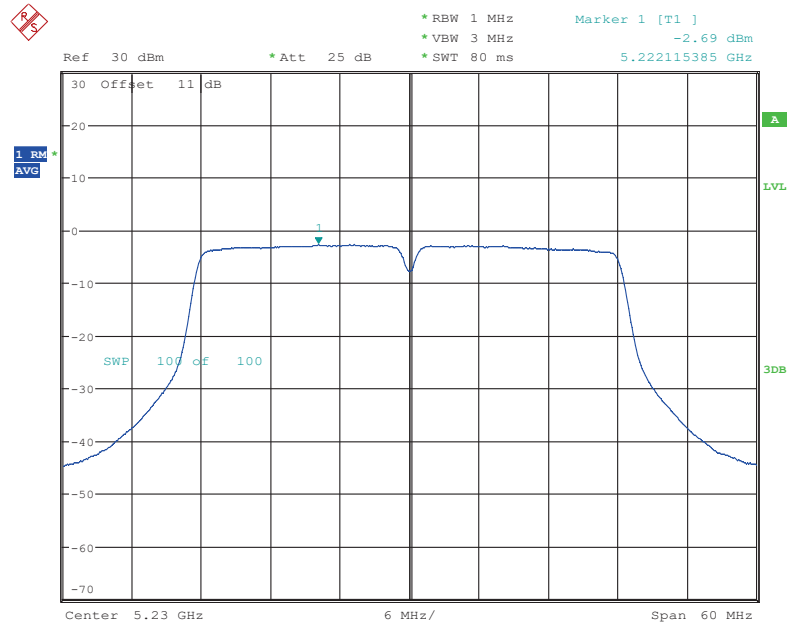


POWER DENSITY AV ANT211n40CH38
Date: 19.SEP.2022 15:34:18

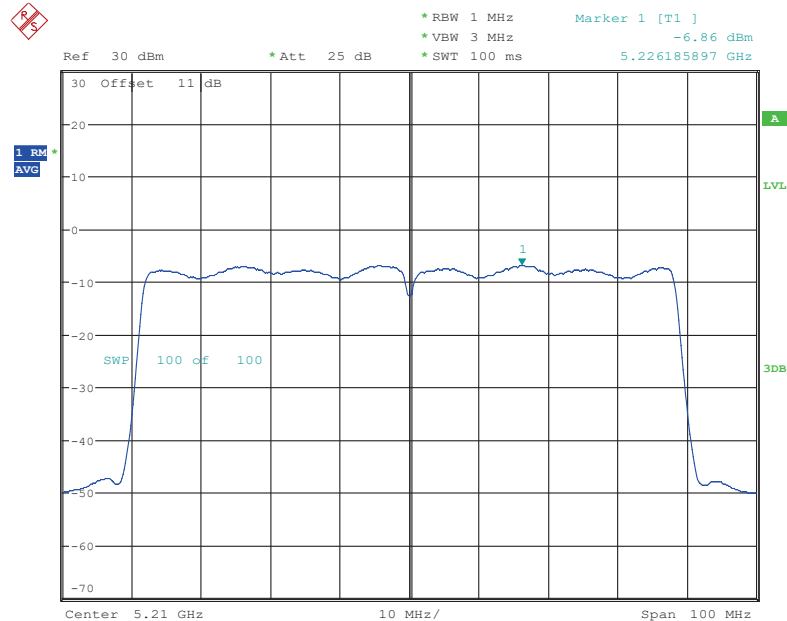


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



POWER DENSITY AV ANT211n40CH46
Date: 19.SEP.2022 15:39:18



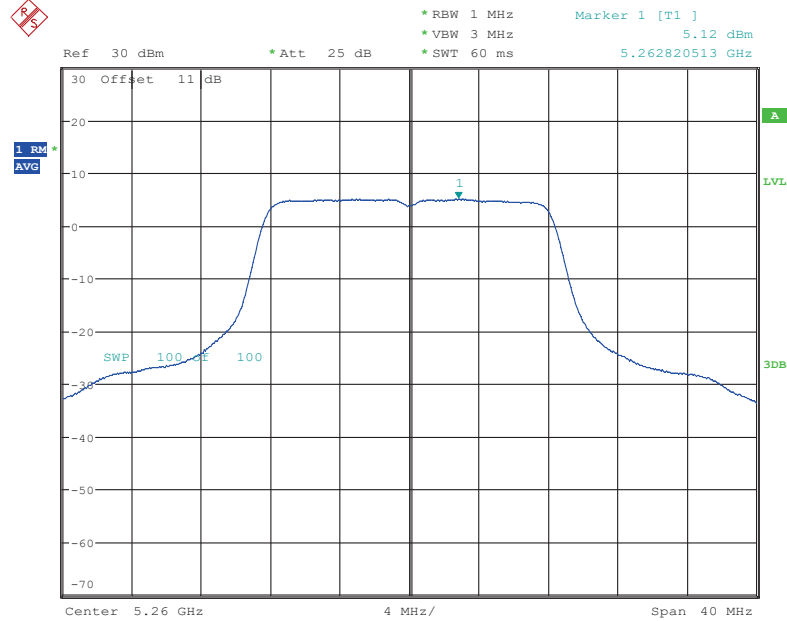
POWER DENSITY AV ANT211ac80CH42
Date: 19.SEP.2022 15:44:46



Registration number: W6R22002-19655-C-54-R2

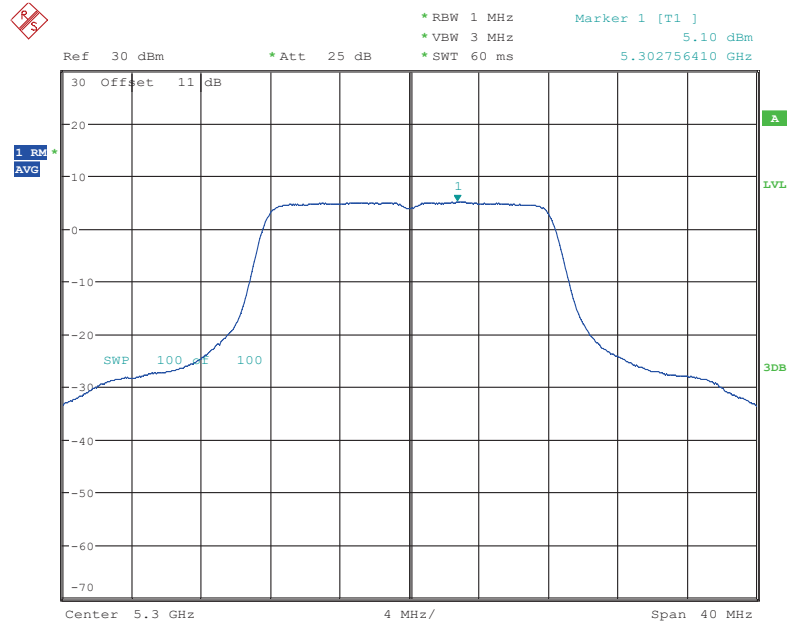
FCC ID: W23-WMXWAVE2AS

5.25 GHz ~ 5.35 GHz



POWER DENSITY AV ANT211aCH52

Date: 19.SEP.2022 15:56:25

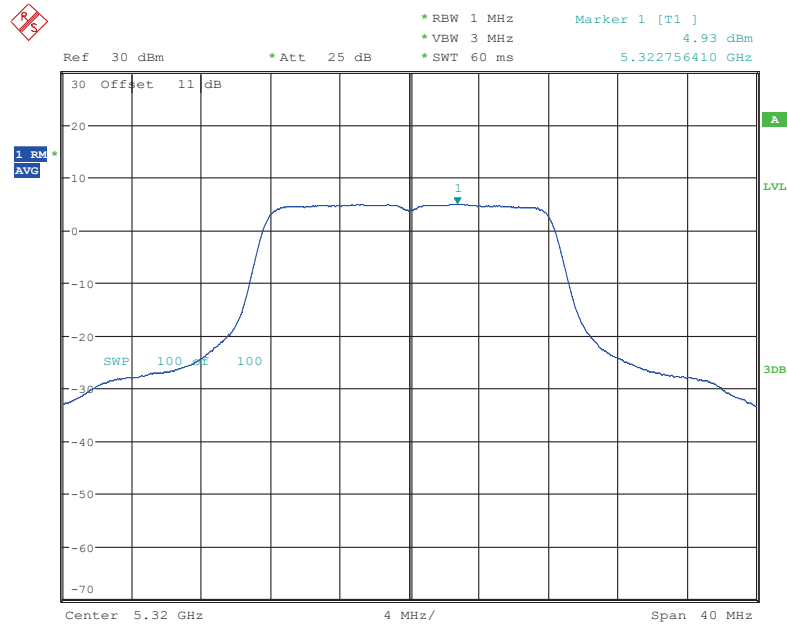


POWER DENSITY AV ANT211aCH60

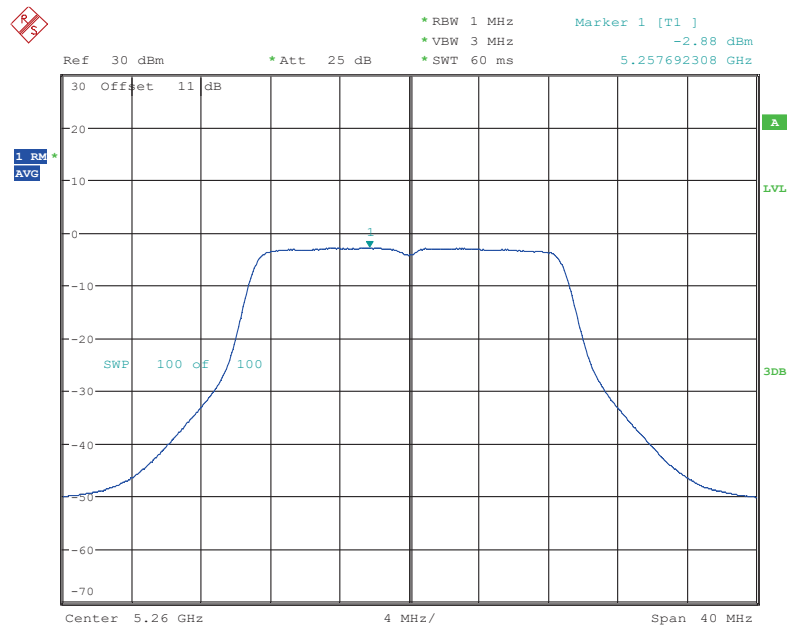
Date: 19.SEP.2022 16:03:41



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



POWER DENSITY AV ANT211aCH64
Date: 19.SEP.2022 16:09:51

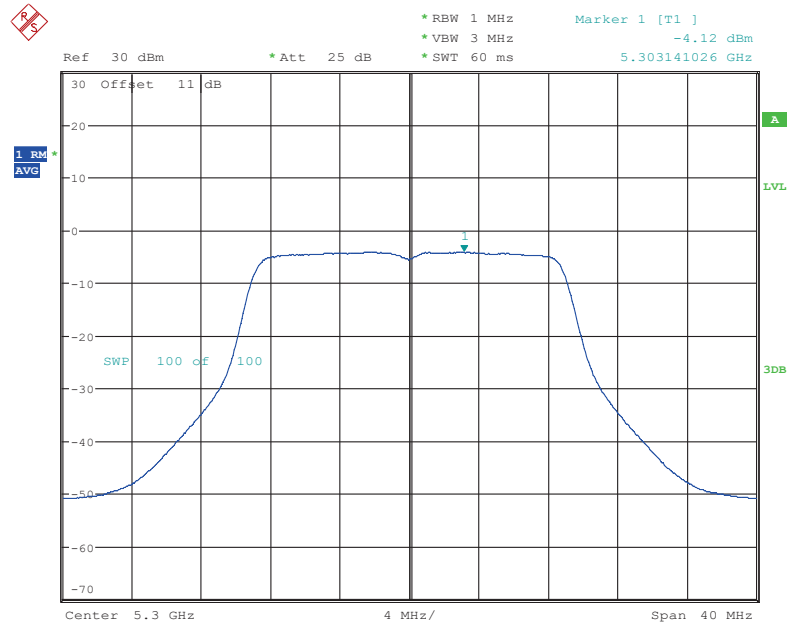


POWER DENSITY AV ANT211n20CH52
Date: 19.SEP.2022 16:16:28

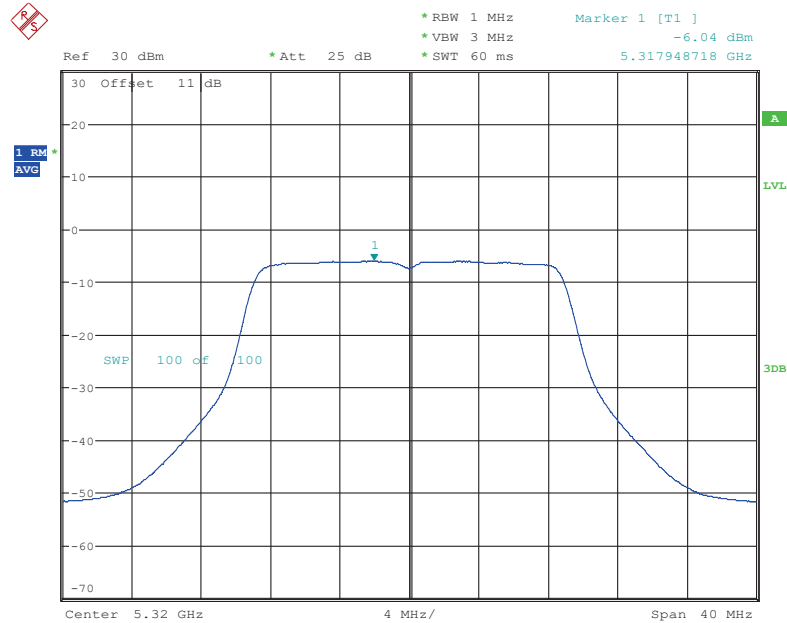


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



POWER DENSITY AV ANT211n20CH60
Date: 19.SEP.2022 16:21:07

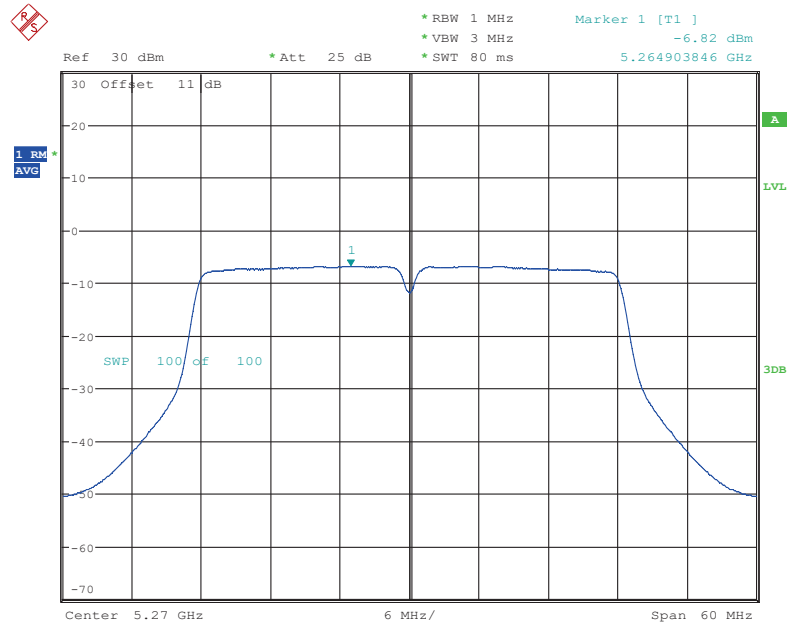


POWER DENSITY AV ANT211n20CH64
Date: 19.SEP.2022 16:50:16

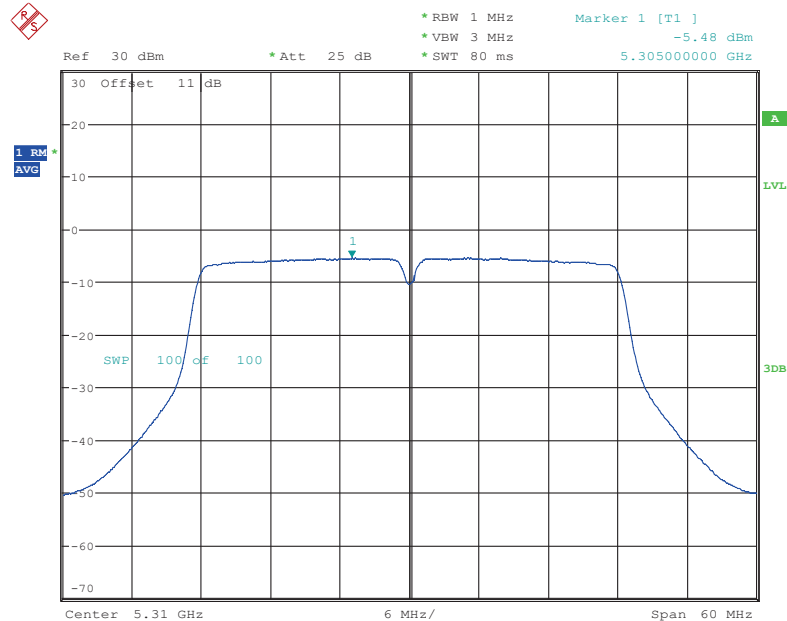


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



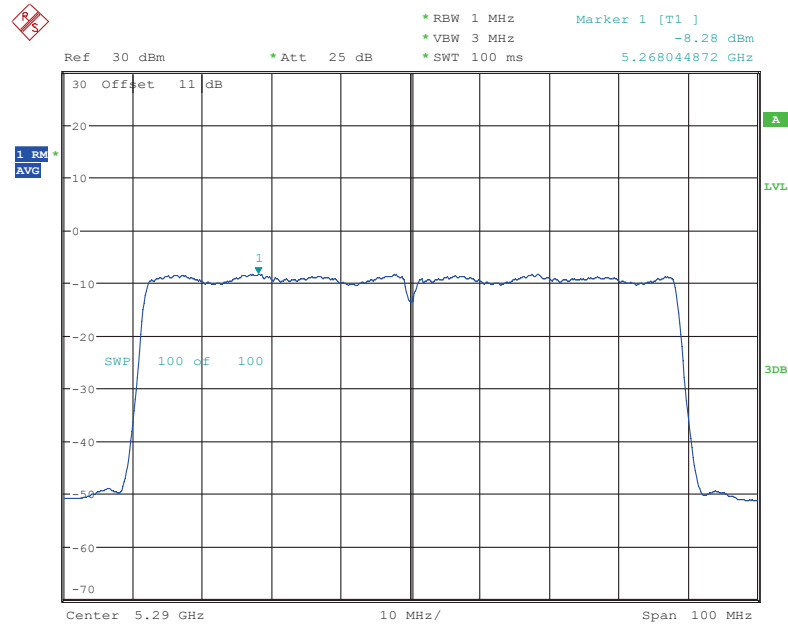
POWER DENSITY AV ANT211n40CH54
Date: 19.SEP.2022 17:02:49



POWER DENSITY AV ANT211n40CH62
Date: 19.SEP.2022 17:09:34

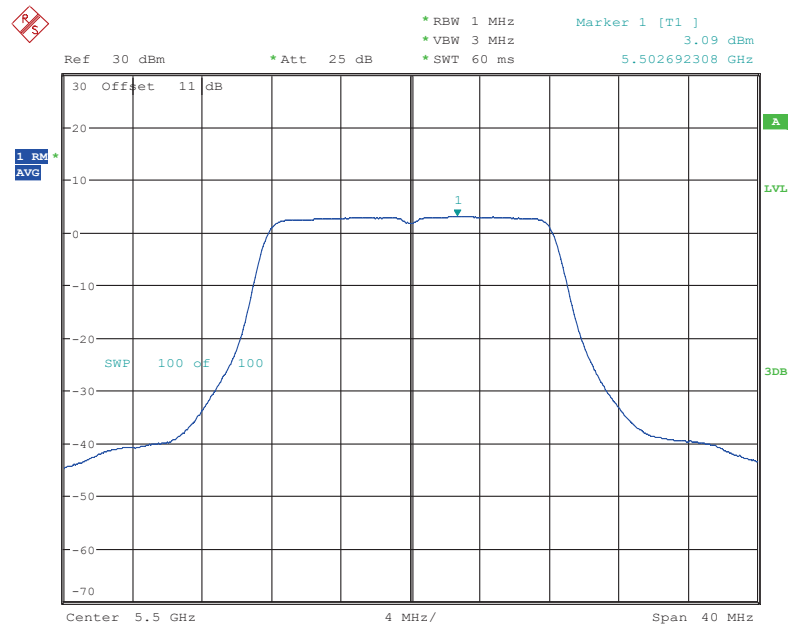


Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



POWER DENSITY AV ANT211ac80CH58
Date: 19.SEP.2022 17:16:43

5.47 GHz ~ 5.725 GHz

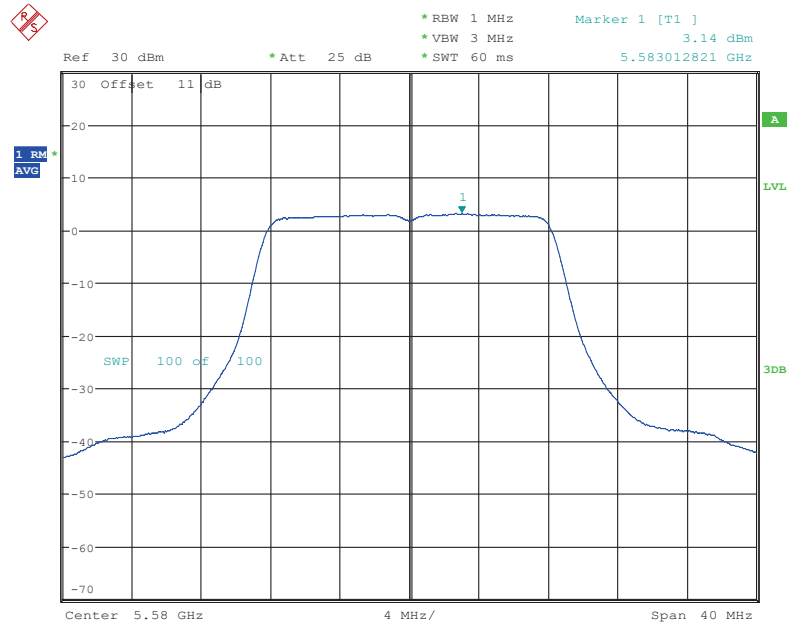


POWER DENSITY AV ANT211aCH100
Date: 19.SEP.2022 17:28:11

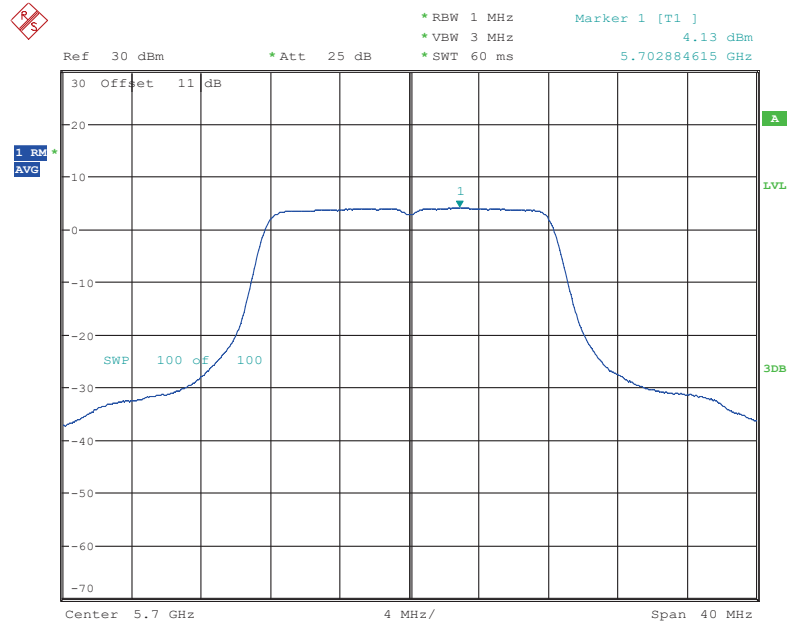


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



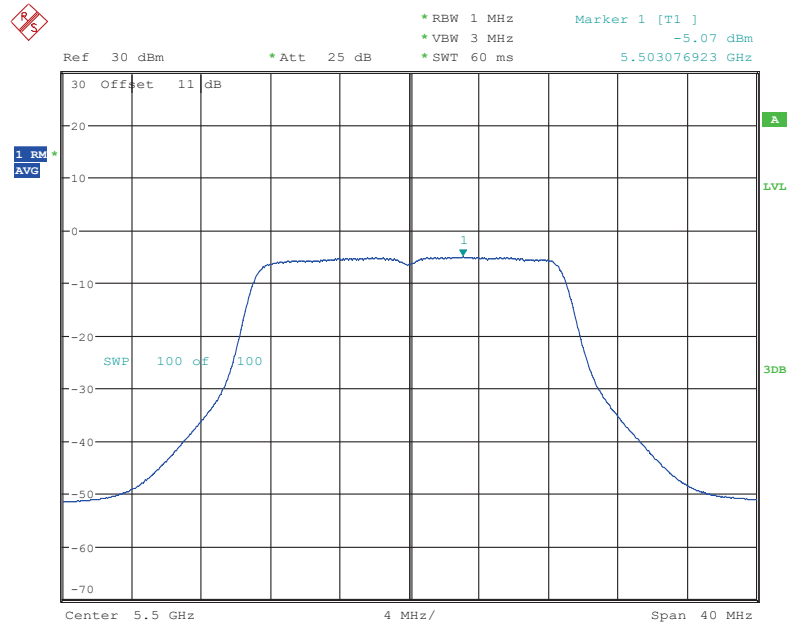
POWER DENSITY AV ANT211aCH116
Date: 19.SEP.2022 17:35:26



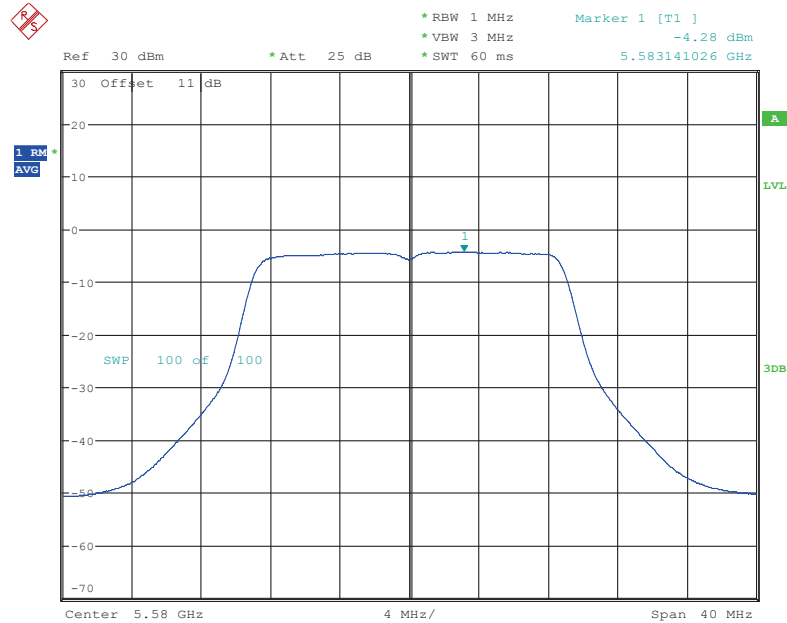
POWER DENSITY AV ANT211aCH140
Date: 19.SEP.2022 17:57:13



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



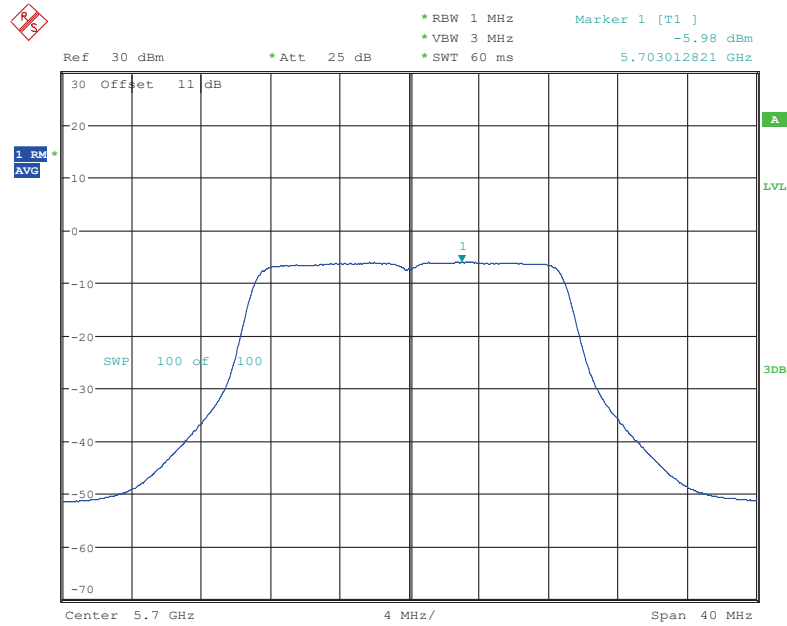
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Date: 19.SEP.2022 18:44:20



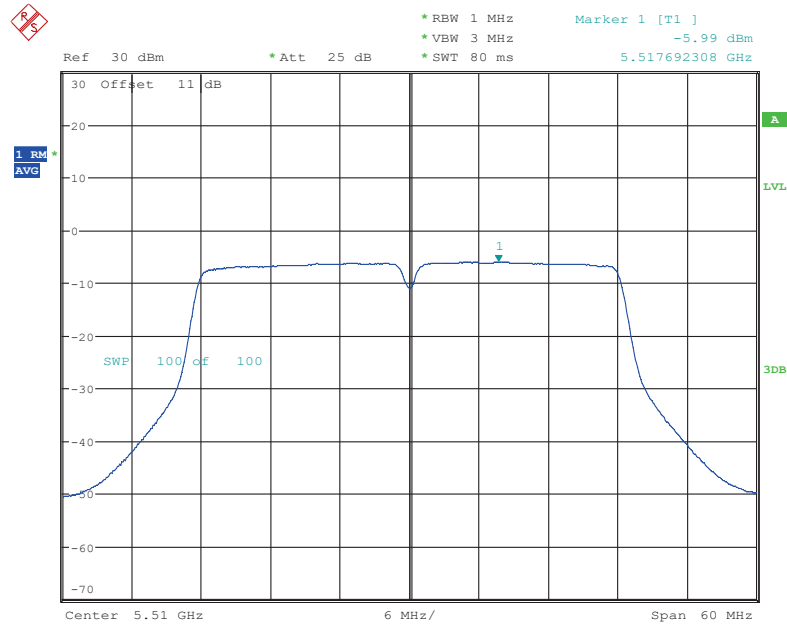
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Date: 19.SEP.2022 18:50:57



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



POWER DENSITY AV ANT211n20CH140
Date: 19.SEP.2022 18:57:34

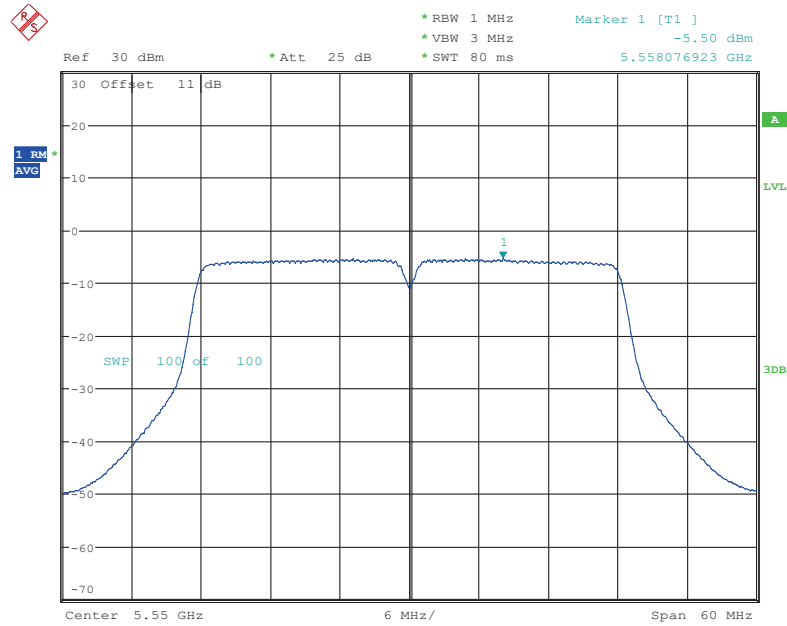


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Date: 19.SEP.2022 20:31:27

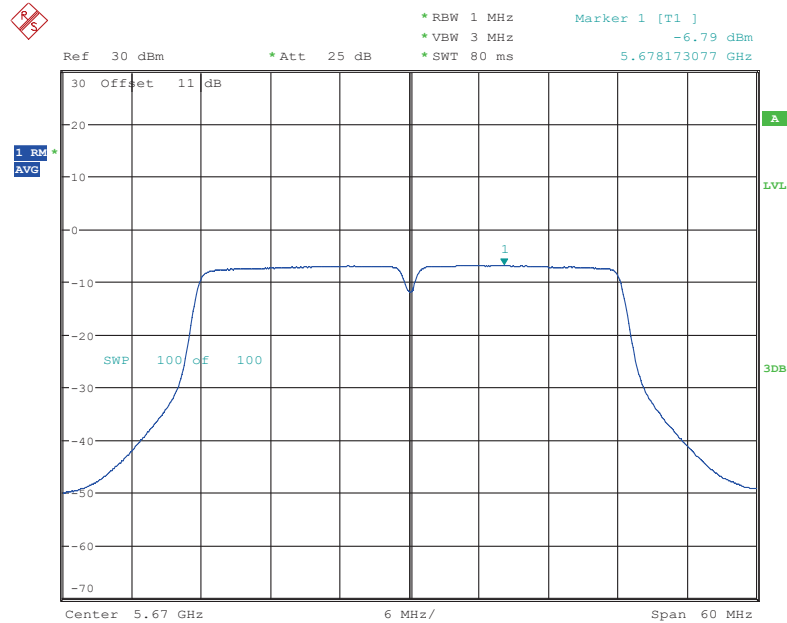


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



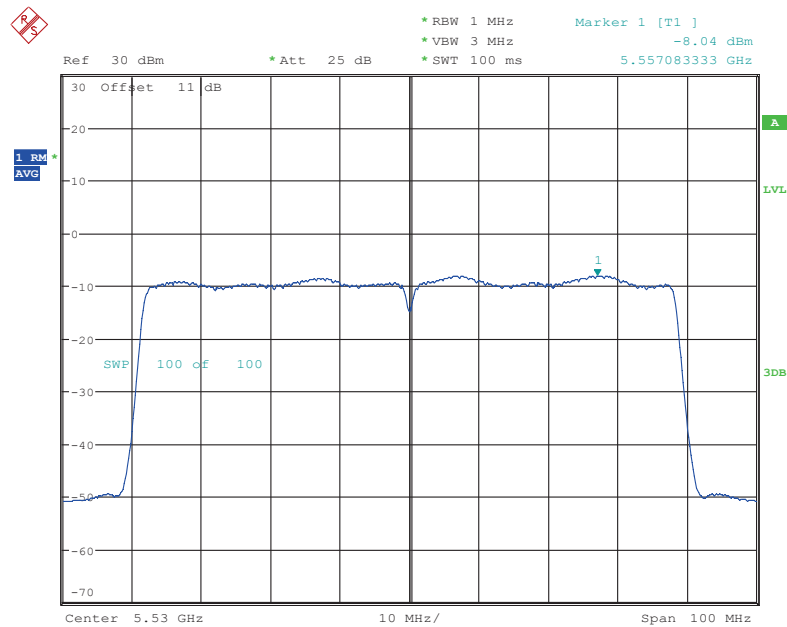
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Date: 19.SEP.2022 20:36:42



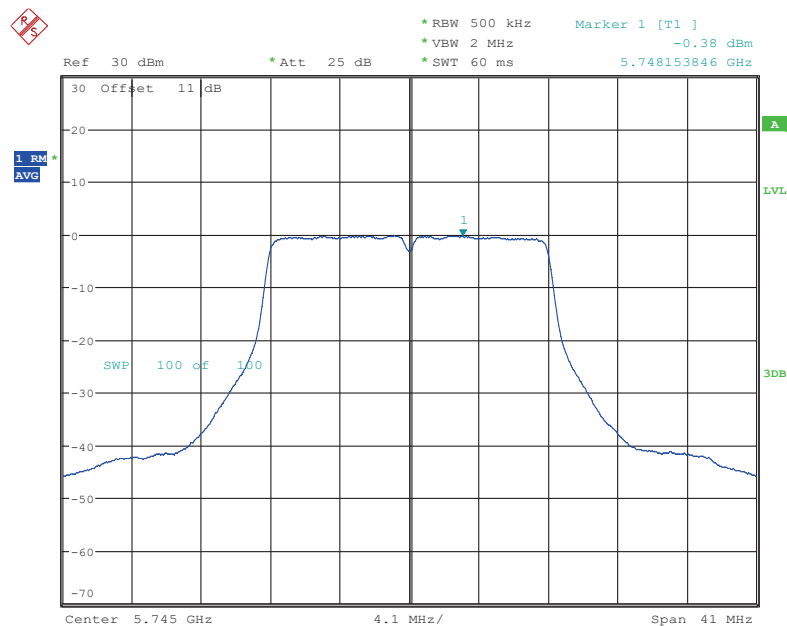
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Date: 19.SEP.2022 20:41:42



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS

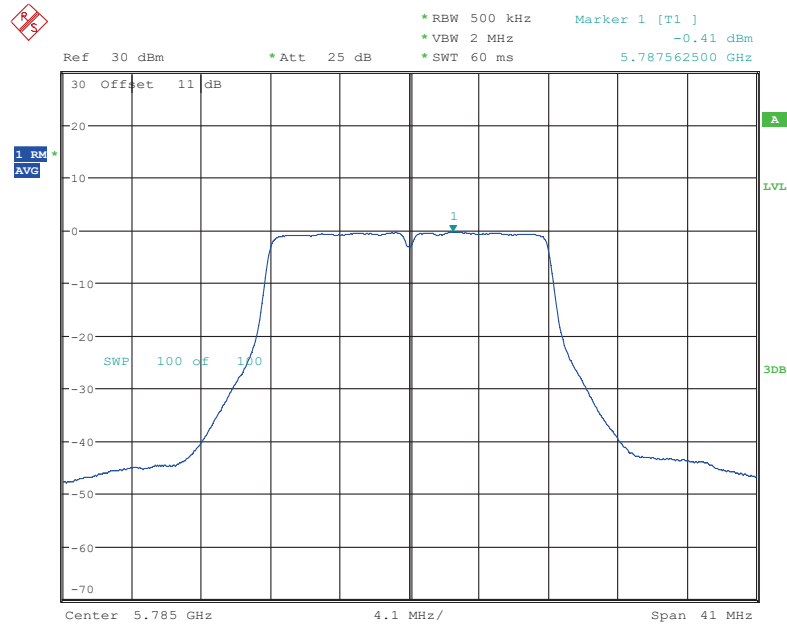


5.725 GHz ~ 5.85 GHz

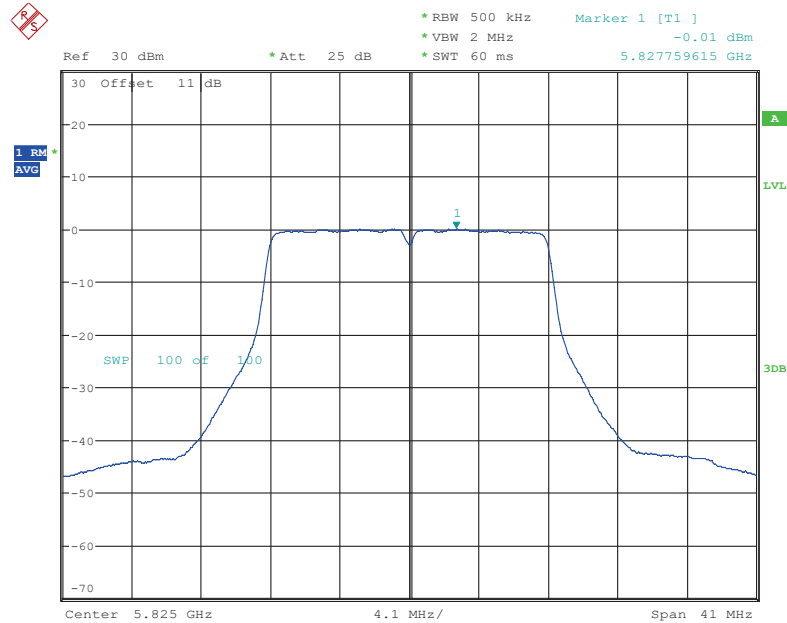




Registration number: W6R22002-19655-C-54-R2
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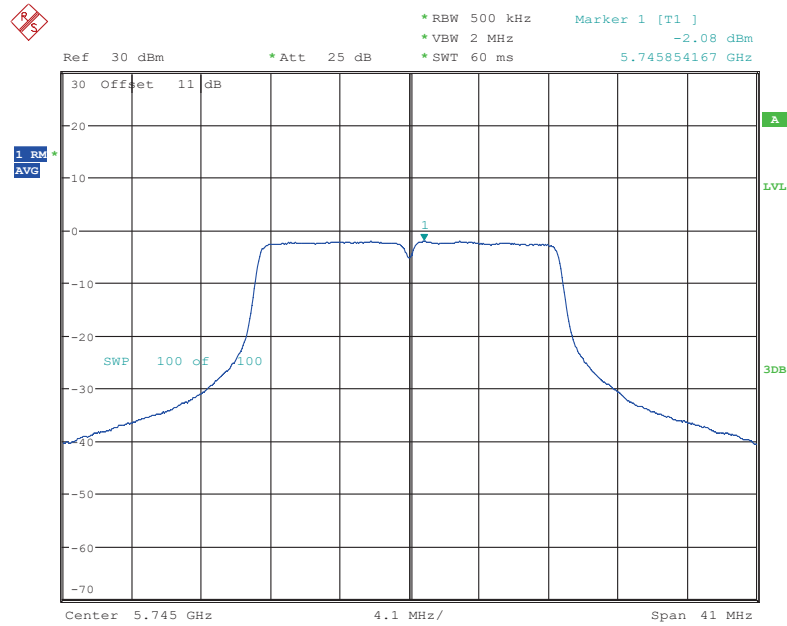
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Date: 19.SEP.2022 22:05:06



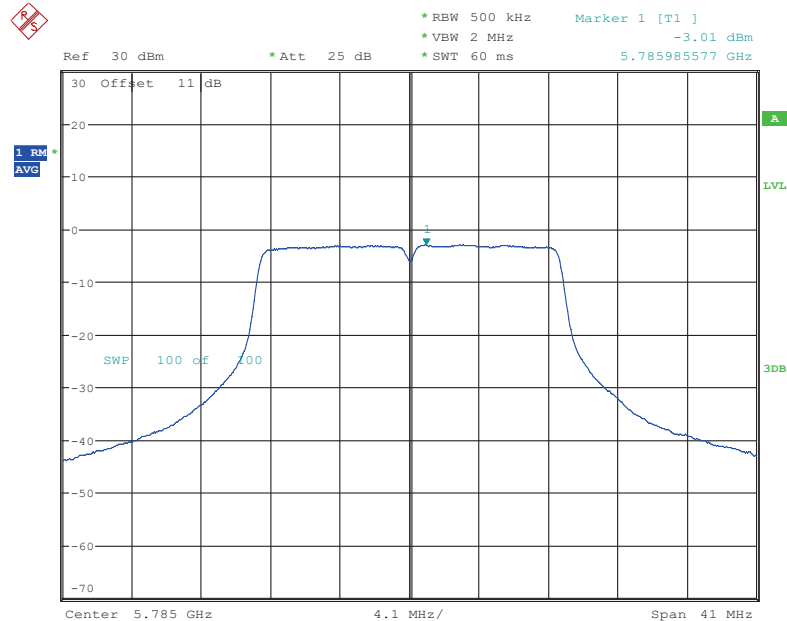
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Date: 19.SEP.2022 22:07:08



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



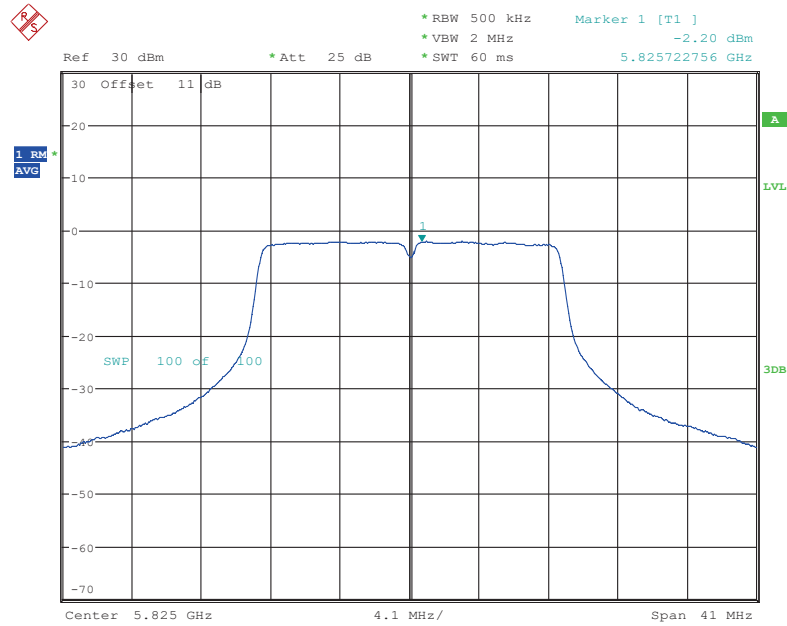
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Date: 19.SEP.2022 22:10:16



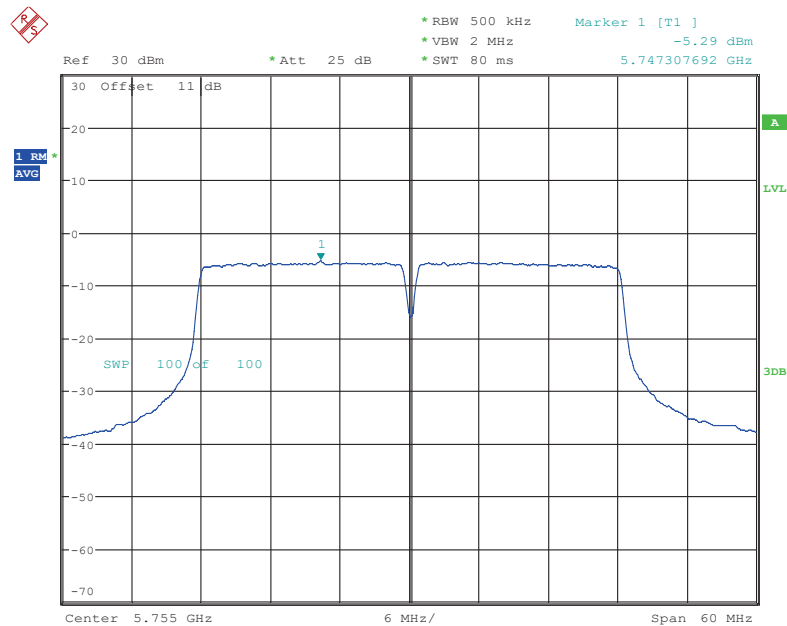
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Date: 19.SEP.2022 22:12:40



Registration number: W6R22002-19655-C-54-R2
FCC ID: W23-WMXWAVE2AS



POWER DENSITY AV ANT211n20CH165
Date: 19.SEP.2022 22:14:28



POWER DENSITY AV ANT211n40CH151
Date: 19.SEP.2022 22:17:42