

TEST REPORT

APPLICANT	: MiMOMax Wireless Limited
PRODUCT NAME	: 900MHz TornadoX Transceiver
MODEL NAME	: MWL-TORNADOX-*G*D/E
BRAND NAME	: Ubiik Mimomax
FCC ID	: XMK-MMXTRNXB006
STANDARD(S)	47 CFR Part 2 47 CFR Part 24
RECEIPT DATE	: 2024-02-01
TEST DATE	: 2024-02-21 to 2024-02-28
ISSUE DATE	: 2024-03-05



Gan Jing Tested by: Gan Jing (Rapporteur)

Approved by:

Shen Junsheng(Supervisor)

lunch,

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Change History					
Issue	Date	Reason for change			
1.0	2024-03-05	First edition			





1. Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

Applicant:	MiMOMax Wireless Limited
Applicant Address:	540 Wairakei Road, Christchurch 8053, New Zealand
Manufacturer:	MiMOMax Wireless Limited
Manufacturer Address:	540 Wairakei Road, Christchurch 8053, New Zealand

1.2. Equipment Under Test (EUT) Description

Product Name:	900MHz TornadoX Transceiver			
EUT Serial No:	(N/A, marked 1#	^t by test site)		
Hardware Version:	P001			
Software Version:	TRN_04.08.04			
Operating Frequency Range:	901-902 MHz, 2Tx/2Rx			
Channel Bandwidth:	12.5kHz; 25kHz; 50kHz			
Modulation Type:	QPSK; 16QAM; 64QAM; 256QAM			
Operating Voltage:	10.5-60V			
	Omni Antenna	2.5 dBi		
		4.0 dBi		
		6.0 dBi		
Antenna Gain:		8.0 dBi		
	Panel Antenna	10.0 dBi		
	Fanel Antenna	12.0 dBi		
	Soowniz Tornadox Transcerver (N/A, marked 1# by test site) P001 TRN_04.08.04 901-902 MHz, 2Tx/2Rx 12.5kHz; 25kHz; 50kHz QPSK; 16QAM; 64QAM; 256QAM 10.5-60V 2.5 dBi Omni Antenna 4.0 dBi 6.0 dBi 8.0 dBi 12.0 dBi 12.0 dBi 16.0 dBi BW(kHz) Designator 12.5kHz 20K0W1W 25.0kHz 20K0W1W	16.0 dBi		
	BW(kHz)	Designator		
Emission Designator:	12.5kHz	10K0W1W		
Emission Designator.	25.0kHz	20K0W1W		
	50.0kHz	42K0W1W		





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1.3. Test Standards and Results

The objective of the report is to perform testing according to 47 CFR Part 2 and Part 24 for the EUT FCC ID Certification:

No.	Identity	Document Title
1	47 CFR Part 2	Frequency Allocations and Radio Treaty Matters; General Rules and
		Regulations
2	47 CFR Part 24	Personal Communications Services

Test detailed items/section required by FCC rules and results are listed as below:

Section	Description	Test Engineer	Result	Method Determination /Remark	
2,1046	Transmitter				
24.132	Conducted Output	Gan Jing	PASS	No deviation	
	Power and ERP/EIRP				
2.1049	Occupied Bandwidth	Gan Jing	PASS	No deviation	
2.1051	Conducted Spurious	Can ling	DASS	No deviation	
24.133	Emissions	Gan Jing	FAGO		
2.1053	Radiated Spurious	Gao liaprou	DASS	No deviation	
24.133	Emissions	Gao Jianiou	FASS	No deviation	
2.1055	Frequency stability	Can ling	DASS	No deviation	
24.135	i requericy stability	Gan Jing	FASS		

Note 1: The TornadoXR Transceiver complies with FCC 47 CFR Part 2 and Part 24 when tested in accordance with the test methods described in 47 CFR Part 2 and Part 24.

Note 2: The TornadoXR Transceiver supports 2 Tx antenna ports, which was defined as Channel H & Channel V separately.

Note 3: The path loss during the conducted RF test is calibrated to correct the results by the Ext Gain setting. The Ext Gain contains two parts that cable loss of 0.7B and attenuator of 30.0dB.

Note 4: When the test result is a critical value, we will use the measurement uncertainty give the judgment result based on the 95% confidence intervals.

Note 5: The prototype has two kinds of power under different conditions, we define Type 1 in the case of 28dBm power and Type 2 in the case of 34dBm power.



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1.4. Environmental Conditions

During the measurement, the environmental conditions were within the listed ranges:

Temperature (°C):	15 - 35
Relative Humidity (%):	30 -60





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2.47 CFR Part 2 and Part 24 Requirements

2.1. Radio Frequency Power Output and E.R.P.

2.1.1. Test result

Type 1:

Nominal Frequency: 901.5 MHz Tx Port: Channel H

Channel				Managerad Batad				E.R.P. (ANT	
Bandwidth	Modulation	Voltage	Power	Power	Power	Gain =	4.0dBi)	Gain =	
(kH2)	Туре	(Vdc)	(dBm)	(Watt)	(Matt)			12.0	dBi)
(KUZ)			(ubiii)	(Wall)	(vvall)	dBm	Watt	dBm	Watt
12.5	QPSK	24	27.82	0.605	0.63	29.67	0.927	37.67	5.848
12.5	16QAM	24	27.66	0.583	0.63	29.51	0.893	37.51	5.636
12.5	64QAM	24	28.19	0.659	0.63	30.04	1.009	38.04	6.368
12.5	256QAM	24	28.21	0.662	0.63	30.06	1.014	38.06	6.397
25.0	QPSK	24	27.60	0.575	0.63	29.45	0.881	37.45	5.559
25.0	16QAM	24	27.80	0.603	0.63	29.65	0.923	37.65	5.821
25.0	64QAM	24	28.23	0.665	0.63	30.08	1.019	38.08	6.427
25.0	256QAM	24	28.11	0.647	0.63	29.96	0.991	37.96	6.252
50.0	QPSK	24	27.28	0.535	0.63	29.13	0.818	37.13	5.164
50.0	16QAM	24	27.26	0.532	0.63	29.11	0.815	37.11	5.140
50.0	64QAM	24	27.45	0.556	0.63	29.30	0.851	37.30	5.370
50.0	256QAM	24	27.67	0.585	0.63	29.52	0.895	37.52	5.649

Nominal Frequency: 901.5 MHz Tx Port: Channel V

Channel Bandwidth	Modulation Type	Voltage (Vdc)	Measured Power	Measured Power	Rated Power	E.R.P Gain =	E.R.P. (ANT Gain = 4.0dBi)		. (ANT in = dBi)
(KTZ)			(автт)	(Wall)	(watt)	dBm	Watt	dBm	Watt
12.5	QPSK	24	27.99	0.630	0.63	29.84	0.964	37.84	6.081
12.5	16QAM	24	27.76	0.597	0.63	29.61	0.914	37.61	5.768
12.5	64QAM	24	28.25	0.668	0.63	30.10	1.023	38.10	6.457
12.5	256QAM	24	28.29	0.675	0.63	30.14	1.033	38.14	6.516
25.0	QPSK	24	28.19	0.659	0.63	30.04	1.009	38.04	6.368



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25.0	16QAM	24	28.05	0.638	0.63	29.90	0.977	37.90	6.166
25.0	64QAM	24	27.94	0.622	0.63	29.79	0.953	37.79	6.012
25.0	256QAM	24	28.31	0.678	0.63	30.16	1.038	38.16	6.546
50.0	QPSK	24	28.00	0.631	0.63	29.85	0.966	37.85	6.095
50.0	16QAM	24	27.84	0.608	0.63	29.69	0.931	37.69	5.875
50.0	64QAM	24	28.05	0.638	0.63	29.90	0.977	37.90	6.166
50.0	256QAM	24	28.43	0.697	0.63	30.28	1.067	38.28	6.730

Type 2:

Nominal Frequency: 901.5 MHz Tx Port: Channel H

Channel Bandwidth	Modulation Type	Voltage (Vdc)	Measured Power	Measured Power	Rated Power	E.R.P Gain =	E.R.P. (ANT Gain = 4.0dBi)		E.R.P. (ANT Gain = 6.0dBi)	
(kHz)	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(140)	(dBm)	(Watt)	(Watt)	dBm	Watt	dBm	Watt	
12.5	QPSK	24	33.66	2.323	2.50	35.51	3.556	37.51	5.636	
12.5	16QAM	24	33.61	2.296	2.50	35.46	3.516	37.46	5.572	
12.5	64QAM	24	33.91	2.460	2.50	35.76	3.767	37.76	5.970	
12.5	256QAM	24	33.72	2.355	2.50	35.57	3.606	37.57	5.715	
25.0	QPSK	24	34.02	2.523	2.50	35.87	3.864	37.87	6.124	
25.0	16QAM	24	33.77	2.382	2.50	35.62	3.648	37.62	5.781	
25.0	64QAM	24	34.08	2.559	2.50	35.93	3.917	37.93	6.209	
25.0	256QAM	24	33.91	2.460	2.50	35.76	3.767	37.76	5.970	
50.0	QPSK	24	33.73	2.360	2.50	35.58	3.614	37.58	5.728	
50.0	16QAM	24	33.91	2.460	2.50	35.76	3.767	37.76	5.970	
50.0	64QAM	24	33.83	2.415	2.50	35.68	3.698	37.68	5.861	
50.0	256QAM	24	34.12	2.582	2.50	35.97	3.954	37.97	6.266	

Nominal Frequency: 901.5 MHz Tx Port: Channel V

Channel Bandwidth	Modulation Type	Voltage (Vdc)	Measured Power (dBm)	Measured Power (Watt)	Rated Power (Watt)	E.R.P. (ANT Gain = 4.0dBi)		E.R.P. (ANT Gain = 6.0dBi)	
(kHz)						dBm	Watt	dBm	Watt
12.5	QPSK	24	33.90	2.455	2.50	35.75	3.758	37.75	5.957
12.5	16QAM	24	33.74	2.366	2.50	35.59	3.622	37.59	5.741
12.5	64QAM	24	34.10	2.570	2.50	35.95	3.936	37.95	6.237
12.5	256QAM	24	33.75	2.371	2.50	35.60	3.631	37.60	5.754



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25.0	QPSK	24	33.49	2.234	2.50	35.34	3.420	37.34	5.420
25.0	16QAM	24	33.56	2.270	2.50	35.41	3.475	37.41	5.508
25.0	64QAM	24	33.85	2.427	2.50	35.70	3.715	37.70	5.888
25.0	256QAM	24	33.82	2.410	2.50	35.67	3.690	37.67	5.848
50.0	QPSK	24	34.09	2.564	2.50	35.94	3.926	37.94	6.223
50.0	16QAM	24	34.14	2.594	2.50	35.99	3.972	37.99	6.295
50.0	64QAM	24	34.16	2.606	2.50	36.01	3.990	38.01	6.324
50.0	256QAM	24	34.18	2.618	2.50	36.03	4.009	38.03	6.353

Note1: Measurements were carried out at the RF output terminals of the transmitter using spectrum analyzer. The path loss during the conducted RF test is calibrated to correct the results by the Ext Gain setting. The Ext Gain contains two parts that cable loss of 0.7B and attenuator of 30.0dB.

Note 2: The transmitter has a rated output power of .2.512 Watt (34dBm). The measured power has been shown to be within +/- 1 dB of the rated power.

Note3:E.I.R.P. (dBm) = Conducted Output Power (dBm) + Antenna Gain (dBi); E.R.P. (dBm) = E.I.R.P. (dBm) - 2.15.

Note4: Part 24 does not specify the transmitter output power.

Stations transmitting in the 901-902 MHz band are limited to 7 watts e.r.p.

Note 5: The product's antenna is a special MIMO antenna with cross-polarization which is able to transmit and receive on both the vertical and horizontal polarizations at the same time, the MIMO antennas are essentially two antennas in one.

Note 6: According to KDB 662911, the MIMO directional gain is the gain of an individual antenna. **Note 7:** The DUT transmitter ports are completely uncorrelated. According to KDB 662911 the conducted power or E.R.P is measured on each port individually and it complies with the regulations.

Note 8: This product is based on the interactive calculation of erp limits and conducted power. In the 901-902MHz range, an antenna with a maximum gain of 12dBi can be used when the conducted power is 28dBm, or an antenna with a maximum gain of 6dBi can be used when the conducted power is 34dBm to meet the erp requirements.







2.2. Occupied Bandwidth

2.2.1. Definition

Emission Designator:

Frequency (MHz)	BW(kHz)	Designator
	12.5kHz	10K0W1W
901-902MHz	25.0kHz	20K0W1W
	50.0kHz	42K0W1W

Note: The above data combined with uncertainty and rounding calculations are consistent with the actual test data.

According to FCC section 2.1049, the occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission.

Occupied bandwidth is also known as the 99% emission bandwidth.

2.2.2. Test Description

Measurements have been made of each modulation type using a spectrum analyzer operating in occupied bandwidth mode.







2.2.3. Test Result

901.50 MHz								
Tx Port	Channel Bandwidth(kHz)	Emission Type	Occupied Bandwidth(kHz)					
		QPSK	9.015					
	10.5	16QAM	9.006					
	12.5	64QAM	8.990					
		256QAM	8.970					
		QPSK	18.817					
u	25.0	16QAM	18.751					
	25.0	64QAM	18.757					
		256QAM	18.757					
		QPSK	41.557					
	50.0	16QAM	41.656					
	50.0	64QAM	41.943					
		256QAM	41.277					
		QPSK	9.005					
	10.5	16QAM	9.008					
	12.5	64QAM	8.993					
		256QAM	9.018					
		QPSK	18.816					
V	25.0	16QAM	18.689					
v	25.0	64QAM	18.927					
		256QAM	18.717					
		QPSK	41.156					
	50.0	16QAM	41.095					
	JU.U	64QAM	41.203					
		256QAM	41.325					



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2.3. Spurious Emissions At Antenna Terminals

2.3.1. Test Requirement

According to FCC section 2.1051, 24.131 and 24. 133(a) section

The authorized bandwidth of narrowband PCS channels will be 10 kHz for 12.5 kHz channels and 45 kHz for 50 kHz channels. For aggregated adjacent channels, a maximum authorized bandwidth of 5 kHz less than the total aggregated channel width is permitted.

For transmitters authorized a bandwidth greater than 10 kHz:

1. On any frequency outside the authorized bandwidth and removed from the edge of the authorized bandwidth by a displacement frequency (fd in kHz) of up to and including 40 kHz: at least 116 Log10 ((fd + 10)/6.1) decibels or 50 plus 10 Log10 (P) decibels or 70 decibels, whichever is the lesser attenuation;

2. On any frequency outside the authorized bandwidth and removed from the edge of the authorized bandwidth by a displacement frequency (fd in kHz) of more than 40 kHz: at least 43 + 10 Log10 (P) decibels or 80 decibels, whichever is the lesser attenuation;

For transmitters authorized a bandwidth of 10 kHz:

1. On any frequency outside the authorized bandwidth and removed from the edge of the authorized bandwidth by a displacement frequency (fd in kHz) of up to and including 20 kHz: at least 116 × Log10 ((fd + 5)/3.05) decibels or 50 + 10 × Log10 (P) decibels or 70 decibels, whichever is the lesser attenuation;

2. On any frequency outside the authorized bandwidth and removed from the edge of the authorized bandwidth by a displacement frequency (fd in kHz) of more than 20 kHz: at least 43 + 10 Log10 (P) decibels or 80 decibels, whichever is the lesser attenuation.





2.3.2. Test Result

Nominal Frequency: 901.50 MHz Tx Port: Channel H







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50.0kHz /	64QAM	50.0kHz /256QA	М	
Agitent Spectrum Analyzer - Swept SA	ALIGN CFF 03:19:46 FM Feb 23, 2024 Avg Type: RMS TRACE []:2:3:45 FM Avg[Hold>100/100 TWEE ANNINN N	Peak Search	Aglient Spectrum Analyzer Swort SA Image: Sectrum Analyzer Swort SA Image: Sectrum Analyzer Stress St	FF 03:19:02 PMFeb 23, 2024 TRACE 12 3 4 5 6 TYPE A WMANN N N DET A N N N N N
Ref Offset 30.5 dB 10 dB/div Ref 30.50 dBm	Mkr2 1.803 26 GHz -37.870 dBm	NextPeak	Ref Offset 30.5 dB N 10 dB/div Ref 30.50 dBm	1kr2 1.803 26 GHz -37.949 dBm
205		Next Pk Right	205	Next Pk Right
.9.50 .19.5 .29.5	-13.00 titler	Next Pk Left	9.50	Next Pk Left
-39.5 49.5 -59.5		Marker Delta	30.5	Marker Delta
Start 30 MHz #Res BW 1.0 MHz #VBW 3.0 MHz*	Stop 9.500 GHz Sweep 16.00 ms (40001 pts)	Mkr→CF	Start 30 MHz #Res BW 1.0 MHz #VBW 3.0 MHz* Sweep Iway loades had local x y punction reactions	Stop 9.500 GHz 16.00 ms (40001 pts) Mkr→CF
1 N 1 f 901.71 MHz 33.949 dBm 2 N 1 f 1.803 26 GHz 37.870 dBm 3 4 5 5		Mkr→RefLvl	1 N 1 f 90171 MHz 34,284 dBm 2 N 1 f 1,803 26 GHz 37,949 dBm 4 5 6	Mkr→RefLvl
7 8 9 10 11		More 1 of 2	7 8 9 10 11	More 1 of 2
M8G	STATUS		MSG	ratus

Nominal Frequency: 901.50 MHz Tx Port: Channel V





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50.0kHz /64QAM			50.0kHz /256QAM				
Agilent Spectrum Analyzer - Swept SA Μ RF S0 Ω AC Marker 2 1.803257500000	O GHz PN0: Fast IFGain:Low #Atten: 16 dB	ALIGN OFF 03:17:56 PM Feb 23, 2024 Avg Type: RMS TRACE 12:3 4 5 6 Avg Hold>100/100 TV9E AVMANUAL DET A NIN N N	Peak Search	Agilent Spectrum Analyzer - Swept S RF 50 Q Ay Marker 2 2.7050382500	A C SENSE:INT DOD GHZ PNO: Fast IFGain:Low #Atten: 16 dB	▲ ALIGN OFF 03:18:20 PMFeb 23, 202 Avg Type: RMS TRACE 12 3 4 5 Avg]Hold>100/100 TVPE 4 MMMM DET A NNN N	6 Peak Search
Ref Offset 30.5 dB 10 dB/div Ref 30.50 dBm		Mkr2 1.803 26 GHz -37.192 dBm	NextPeak	10 dB/div Ref 30.5 d Ref 30.50 dBr	B n	Mkr2 2.705 04 GH2 -38.494 dBm	NextPeak
20.5 10.5			Next Pk Right	20.5 10.5			Next Pk Right
-9.50		-1300 dbs	Next Pk Left	-9.50	2		Next Pk Left
-39.5			Marker Delta	-39.5			Marker Delta
Start 30 MHz #Res BW 1.0 MHz	#VBW 3.0 MHz*	Stop 9.500 GHz Sweep 16.00 ms (40001 pts)	Mkr→CF	Start 30 MHz #Res BW 1.0 MHz	#VBW 3.0 MHz*	Stop 9.500 GHz Sweep 16.00 ms (40001 pts	Mkr→CF
1 N 1 f 5 2 N 1 f 1.8 4 5 6	901.71 MHz 34.446 dBm 803 26 GHz -37.192 dBm		Mkr→RefLvl	1 N 1 f 2 N 1 f 3 4 5 6	901.71 MHz 34.047 dBm 2.705 04 GHz -38.494 dBm		Mkr→RefLvi
7 8 9 10 11 €			More 1 of 2	7 8 9 10 11			More 1 of 2
MSG STATUS				MSG		STATUS	





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Nominal Frequency: 901.50 MHz Tx Port: Channel H



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#VBW 91 kHz*

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Tel: 86-755-36698555 Http://www.morlab.cn

#VBW 910 kHz*





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Nominal Frequency: 901.50 MHz Tx Port: Channel V



Center 901.50000 MHz #Res BW 300 Hz



Start 901.54000 MHz #Res BW 30 kHz

File <12.5k H.state> recalled

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Stop 901.57000 MHz Sweep 1.000 ms (1001 pts)

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#VBW 910 kHz*

Fax: 86-755-36698525 E-mail: service@morlab.cn

Span 50.00 kHz Sweep 659.7 ms (1001 pts) io

More 1 of 3







12.5kHz/ 64QAM

12.5kHz/ 64QAM /901.4300 -901.4600 MHz



12.5kHz/ 64QAM /901.5400 -901.5700 MHz



12.5kHz/256QAM



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