

Limit: FCC Part15 (PK) EUT: Mobile Solar Trailer

M/N: TG-113A

Mode: 2.4GWIFI-11b-2437

Note:

Humidity:

%RH

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	1	4874.000	37.25	6.06	43.31	74.00	-30.69	peak	
2		6369.750	38.09	7.40	45.49	74.00	-28.51	peak	
3	8	7311.000	37.19	9.02	46.21	74.00	-27.79	peak	
4		8672.750	37.97	11.95	49.92	74.00	-24.08	peak	
5		9748.000	35.03	13.88	48.91	74.00	-25.09	peak	
6	*	11410.50	37.02	13.75	50.77	74.00	-23.23	peak	

Power:

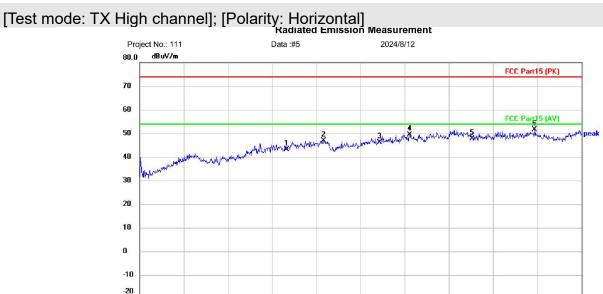
*:Maximum data Reference Only x:Over limit !:over margin FSP40 Spectrum Analyzer:

Test Result: Pass

Blue Asia of Technical Services (Shenzhen) Co., Ltd.

Tel: +86-755-23059481





Limit: FCC Part15 (PK) EUT: Mobile Solar Trailer

1000.000 2175.00

3350.00

4525.00

M/N: TG-113A

Mode: 2.4GWIFI-11b-2462

Note:

700.00	(MHz)	8050.00	9225.00	10400.00	11575.	.00 127	50.0t
	Polarization:	Horizo	ntal	Temper	ature:	(C)	
	Power:			Humidit	y: 9	%RH	

No.	Mk.	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4924.000	36.62	6.54	43.16	74.00	-30.84	peak	
2		5899.750	37.72	9.06	46.78	74.00	-27.22	peak	
3		7386.000	36.68	9.42	46.10	74.00	-27.90	peak	
4		8179.250	38.68	10.73	49.41	74.00	-24.59	peak	
5	į.	9848.000	34.12	13.42	47.54	74.00	-26.46	peak	
6	*	11504.50	37.52	14.11	51.63	74.00	-22.37	peak	

*:Maximum data Reference Only x:Over limit !:over margin FSP40 Spectrum Analyzer:

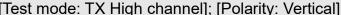
Test Result: Pass

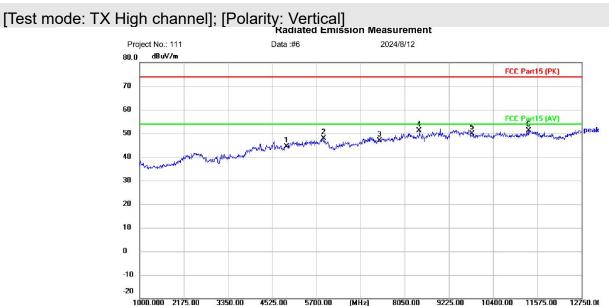
Blue Asia of Technical Services (Shenzhen) Co., Ltd.

Tel: +86-755-23059481

%RH







Polarization:

Power:

Vertical

Limit: FCC Part15 (PK) EUT: Mobile Solar Trailer

M/N: TG-113A

Mode: 2.4GWIFI-11b-2462

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4	4924.000	37.79	6.54	44.33	74.00	-29.67	peak	
2		5899.750	38.77	9.06	47.83	74.00	-26.17	peak	
3		7386.000	37.45	9.42	46.87	74.00	-27.13	peak	
4	8	8437.750	39.95	11.11	51.06	74.00	-22.94	peak	
5	(9848.000	36.40	13.42	49.82	74.00	-24.18	peak	
6	*	11351.75	37.92	13.27	51.19	74.00	-22.81	peak	

*:Maximum data Reference Only x:Over limit !:over margin FSP40 Spectrum Analyzer:

Test Result: Pass

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Tel: +86-755-23059481



6.8 Radiated emissions which fall in the restricted bands

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 6.10.5
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX

6.8.1 Limit

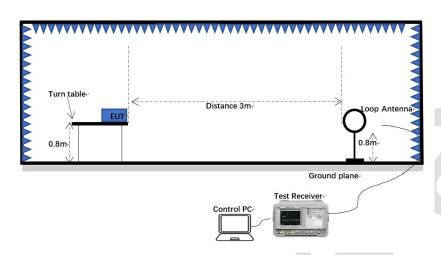
Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

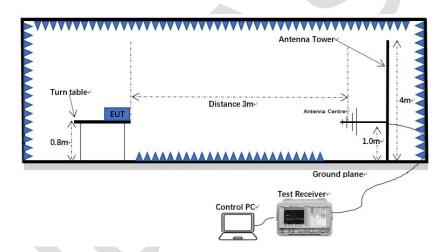


6.8.2 Test setup

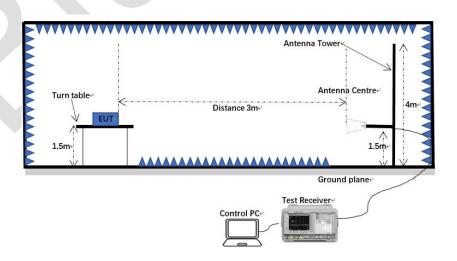
Below 1GHz:



30MHz-1GHz:



Above 1GHz:



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Page 31 of 132

6.8.3 Procedure

- a) For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b) For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c) The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d) The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e) For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f) The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g) If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h) Test the EUT in the lowest channel, the middle channel, the highest channel.
- i) The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j) Repeat above procedures until all frequencies measured was complete.

Note 1: Level (dBuV) = Reading (dBuV) + Factor (dB/m)

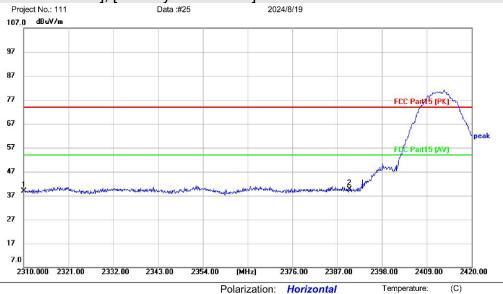
Note 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

%RH



6.8.4 Test data

[Test mode: TX b low channel]; [Polarity: Horizontal]



Limit: FCC Part15 (PK)

EUT: Mobile Solar Trailer

M/N: TG-113A

Mode: 2.4GWIFI-11B-TX-2412

Note:

Site

No.	М	1k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		23	310.000	41.77	-2.89	38.88	74.00	-35.12	peak	
2	*	23	90.000	42.23	-2.70	39.53	74.00	-34.47	peak	

Power:

*:Maximum data x:Over limit !:over margin \(\text{Reference Only}

Test Result: Pass

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Tel: +86-755-23059481

(C)

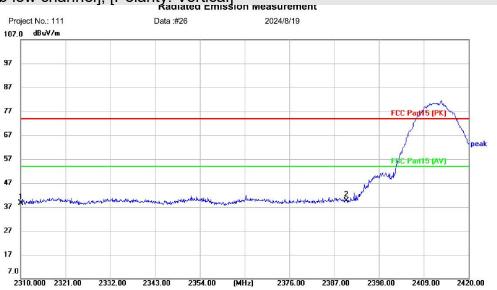
%RH

Temperature:

Humidity:



[Test mode: TX b low channel]; [Polarity: Vertical]



Polarization: Vertical

Site Limit: FCC Part15 (PK)

EUT: Mobile Solar Trailer

M/N: TG-113A

Mode: 2.4GWIFI-11B-TX-2412

Note:

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2310.000	41.55	-2.89	38.66	74.00	-35.34	peak	
2	*	2390.000	42.42	-2.70	39.72	74.00	-34.28	peak	

Power:

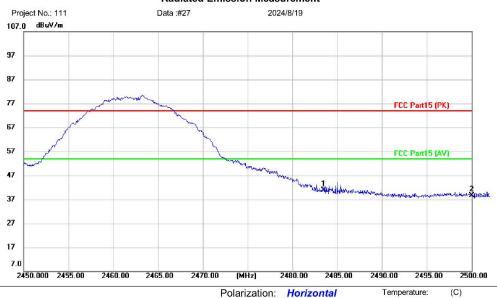
*:Maximum data x:Over limit !:over margin

Receiver: ESR_1 Spectrum Analyzer: FSP40

Test Result: Pass



[Test mode: TX b High channel]; [Polarity: Horizontal]



Site

Limit: FCC Part15 (PK)

EUT: Mobile Solar Trailer

M/N: TG-113A

Mode: 2.4GWIFI-11B-TX-2462

Note:

No.	Mk	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	*	2483.500	43.83	-2.91	40.92	74.00	-33.08	peak		
2		2500.000	41.56	-3.00	38.56	74.00	-35.44	peak		

Power:

*:Maximum data x:Over limit !:over margin

Receiver: ESR_1 Spectrum Analyzer: FSP40

Test Result: Pass

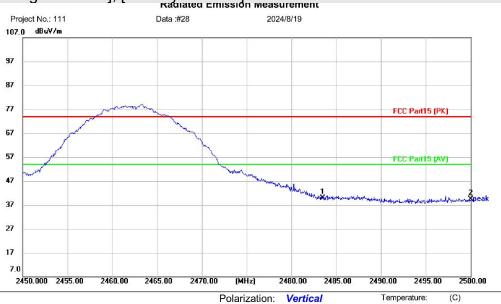
Blue Asia of Technical Services (Shenzhen) Co., Ltd.

Tel: +86-755-23059481

%RH



[Test mode: TX b High channel]; [Polarity: Vertical]



Site Limit: FCC Part15 (PK)

EUT: Mobile Solar Trailer

M/N: TG-113A

Mode: 2.4GWIFI-11B-TX-2462

Note:

No.	М	lk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	24	483.500	42.85	-2.91	39.94	74.00	-34.06	peak	
2		25	500.000	42.34	-3.00	39.34	74.00	-34.66	peak	

Power:

*:Maximum data x:Over limit !:over margin

Receiver: ESR_1 Spectrum Analyzer: FSP40

Test Result: Pass

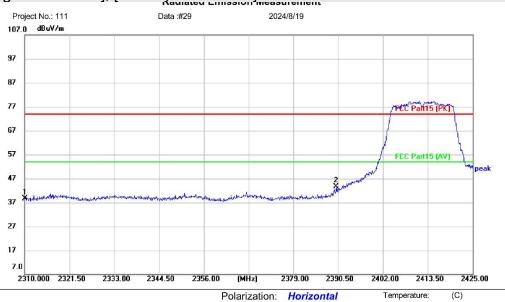
Blue Asia of Technical Services (Shenzhen) Co., Ltd.

Tel: +86-755-23059481

%RH



[Test mode: TX g low channel]; [Polarity: Horizontal]



Site Limit: FCC Part15 (PK)

EUT: Mobile Solar Trailer

M/N: TG-113A

Mode: 2.4GWIFI-11G-TX-2412

Note:

No.	М	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
8		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2310.000	41.59	-2.89	38.70	74.00	-35.30	peak	
2	*	2390.000	46.36	-2.70	43.66	74.00	-30.34	peak	

Power:

Test Result: Pass

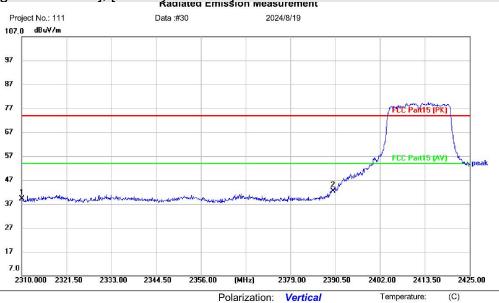
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Tel: +86-755-23059481

%RH



[Test mode: TX g low channel]; [Polarity: Vertical]



Limit: FCC Part15 (PK)
EUT: Mobile Solar Trailer

LOT: Woodie Coldi Tranc

M/N: TG-113A

Mode: 2.4GWIFI-11G-TX-2412

Note:

Site

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2310.000	41.92	-2.89	39.03	74.00	-34.97	peak	
2	*	2390.000	45.05	-2.70	42.35	74.00	-31.65	peak	

Power:

*:Maximum data x:Over limit !:over margin

Receiver: ESR_1 Spectrum Analyzer: FSP40

Test Result: Pass

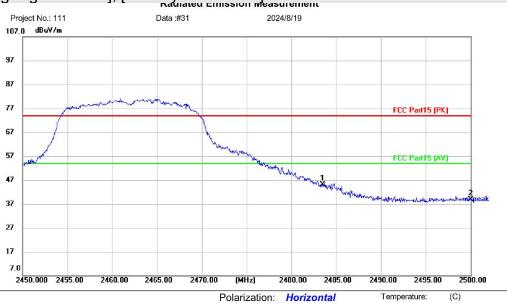
Blue Asia of Technical Services (Shenzhen) Co., Ltd.

Tel: +86-755-23059481

%RH



[Test mode: TX g High channel]; [Polarity: Horizontal]



Limit: FCC Part15 (PK)

EUT: Mobile Solar Trailer

M/N: TG-113A

Mode: 2.4GWIFI-11G-TX-2462

Note:

Site

No.	М	k.	Freq.	Reading Level		Measure- ment	Limit	Over		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	24	83.500	48.08	-2.91	45.17	74.00	-28.83	peak	
2		25	00.000	41.84	-3.00	38.84	74.00	-35.16	peak	

Power:

*:Maximum data x:Over limit !:over margin

Receiver: ESR_1 Spectrum Analyzer: FSP40

Test Result: Pass

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Tel: +86-755-23059481

Temperature:

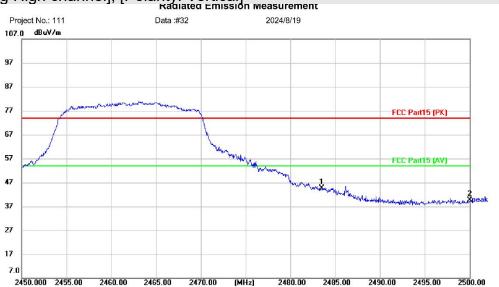
Humidity:

(C)

%RH



[Test mode: TX g High channel]; [Polarity: Vertical]



Polarization: Vertical

Site Limit: FCC Part15 (PK)

EUT: Mobile Solar Trailer

M/N: TG-113A

Mode: 2.4GWIFI-11G-TX-2462

Note:

No.	M	c. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2483.500	47.55	-2.91	44.64	74.00	-29.36	peak	
2		2500.000	42.65	-3.00	39.65	74.00	-34.35	peak	

Power:

*:Maximum data x:Over limit !:over margin

Receiver: ESR_1 Spectrum Analyzer: FSP40

Test Result: Pass

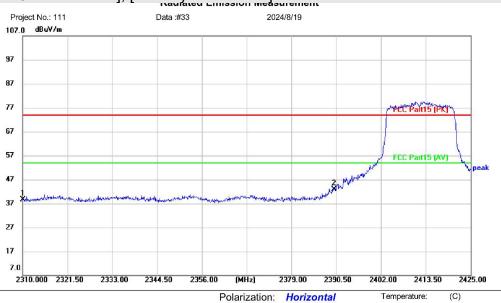
Blue Asia of Technical Services (Shenzhen) Co., Ltd.

Tel: +86-755-23059481

%RH



[Test mode: TX n20 low channel]; [Polarity: Horizontal]



Site Limit: FCC Part15 (PK)

EUT: Mobile Solar Trailer

M/N: TG-113A

Mode: 2.4GWIFI-11N20-TX-2412

Note:

No.	N	Лk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2	310.000	41.48	-2.89	38.59	74.00	-35.41	peak	
2	*	2	390.000	45.54	-2.70	42.84	74.00	-31.16	peak	

Power:

Test Result: Pass

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Tel: +86-755-23059481

Temperature:

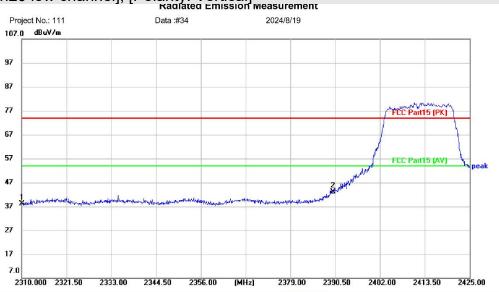
Humidity:

(C)

%RH



[Test mode: TX n20 low channel]; [Polarity: Vertical]



Polarization: Vertical

Site Limit: FCC Part15 (PK)

EUT: Mobile Solar Trailer

M/N: TG-113A

Mode: 2.4GWIFI-11N20-TX-2412

Note:

No.	Mk	k .	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		231	0.000	41.12	-2.89	38.23	74.00	-35.77	peak	
2	*	239	0.000	45.75	-2.70	43.05	74.00	-30.95	peak	

Power:

*:Maximum data x:Over limit !:over margin

Receiver: ESR_1 Spectrum Analyzer: FSP40

(Reference Only

Test Result: Pass

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Tel: +86-755-23059481

(C)

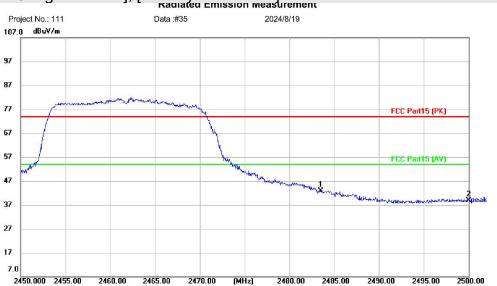
%RH

Temperature:

Humidity:



[Test mode: TX n20 High channel]; [Polarity: Horizontal]



Polarization: Horizontal

Site

Limit: FCC Part15 (PK) EUT: Mobile Solar Trailer

M/N: TG-113A

Mode: 2.4GWIFI-11N20-TX-2462

Note:

No.	No. Mk.		Freq.	Level	Correct Factor	Measure- ment	Limit	Over		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2	2483.500	45.91	-2.91	43.00	74.00	-31.00	peak	
2		2	2500.000	41.92	-3.00	38.92	74.00	-35.08	peak	

Power:

*:Maximum data x:Over limit !:over margin

Receiver: ESR_1 Spectrum Analyzer: FSP40

Test Result: Pass

Blue Asia of Technical Services (Shenzhen) Co., Ltd.

Tel: +86-755-23059481

(C)

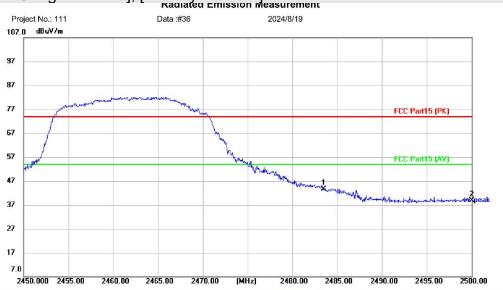
%RH

Temperature:

Humidity:



[Test mode: TX n20 High channel]; [Polarity: Vertical]



Polarization: Vertical

Site

Limit: FCC Part15 (PK)
EUT: Mobile Solar Trailer

M/N: TG-113A

Mode: 2.4GWIFI-11N20-TX-2462

Note:

No.	Mk	Freq.	Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2483.500	46.47	-2.91	43.56	74.00	-30.44	peak	
2		2500.000	41.95	-3.00	38.95	74.00	-35.05	peak	

Power:

*:Maximum data x:Over limit !:over margin

Receiver: ESR_1 Spectrum Analyzer: FSP40

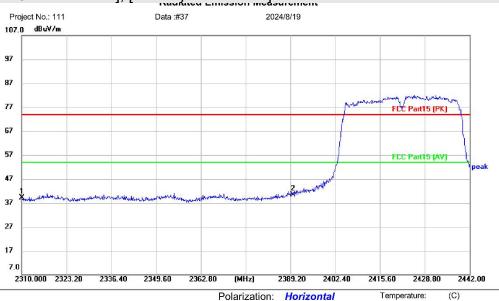
Test Result: Pass

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Tel: +86-755-23059481



[Test mode: TX n40 low channel]; [Polarity: Horizontal]



Site

Limit: FCC Part15 (PK)

EUT: Mobile Solar Trailer

M/N: TG-113A

Mode: 2.4GWIFI-11N40-TX-2422

Note:

No.	М	k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		23	10.000	41.92	-2.89	39.03	74.00	-34.97	peak	
2	*	23	90.000	43.12	-2.70	40.42	74.00	-33.58	peak	

Power:

*:Maximum data x:Over limit !:over margin

Receiver: ESR_1 Spectrum Analyzer: FSP40

Test Result: Pass

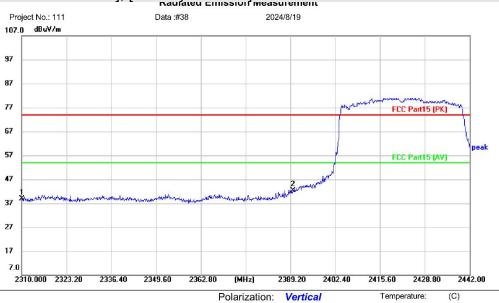
Blue Asia of Technical Services (Shenzhen) Co., Ltd.

Tel: +86-755-23059481

%RH



[Test mode: TX n40 low channel]; [Polarity: Vertical]



Site Limit: FCC Part15 (PK)

EUT: Mobile Solar Trailer

M/N: TG-113A

Mode: 2.4GWIFI-11N40-TX-2422

Note:

No.	M	k. Fre	8.5.01	Level	Correct Factor	Measure- ment	Limit	Over		
		MH:	Z	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2310.00	00	41.75	-2.89	38.86	74.00	-35.14	peak	
2	*	2390.00	00	45.10	-2.70	42.40	74.00	-31.60	peak	

Power:

*:Maximum data x:Over limit !:over margin

Receiver: ESR_1 Spectrum Analyzer: FSP40

Test Result: Pass

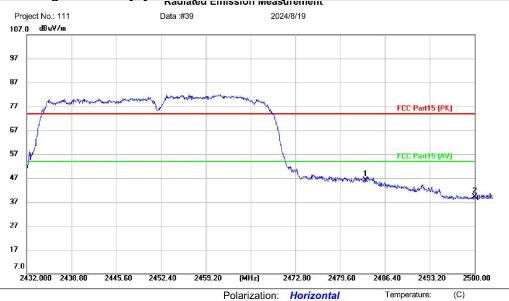
Blue Asia of Technical Services (Shenzhen) Co., Ltd.

Tel: +86-755-23059481

%RH



[Test mode: TX n40 High channel]; [Polarity: Horizontal]



Limit: FCC Part15 (PK) EUT: Mobile Solar Trailer

M/N: TG-113A

Mode: 2.4GWIFI-11N40-TX-2452

Note:

Site

No.	N	Лk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2	483.500	49.03	-2.91	46.12	74.00	-27.88	peak	
2		2	500.000	42.21	-3.00	39.21	74.00	-34.79	peak	

Power:

*:Maximum data x:Over limit !:over margin

Receiver: ESR_1 Spectrum Analyzer: FSP40

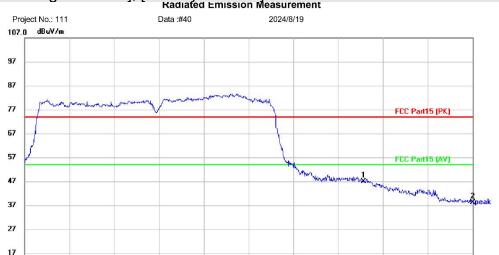
Test Result: Pass

Blue Asia of Technical Services (Shenzhen) Co., Ltd.

Tel: +86-755-23059481



[Test mode: TX n40 High channel]; [Polarity: Vertical]



(MHz)

Power:

Polarization:

2479.60

Vertical

2486.40

Temperature:

Humidity:

Site

Limit: FCC Part15 (PK) EUT: Mobile Solar Trailer

M/N: TG-113A

Mode: 2.4GWIFI-11N40-TX-2452

2432.000 2438.80

Note:

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	*	2483.500	49.68	-2.91	46.77	74.00	-27.23	peak		
2		2500.000	41.15	-3.00	38.15	74.00	-35.85	peak		

2459.20

*:Maximum data x:Over limit !:over margin

Receiver: ESR_1 Spectrum Analyzer: FSP40

Test Result: Pass

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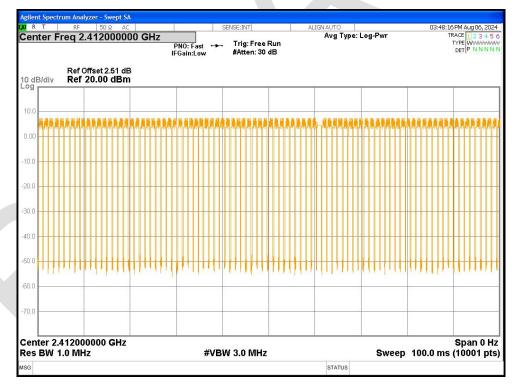


7 Appendix A

Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	b	2412	Ant1	82.41	0.84
NVNT	b	2437	Ant1	82.14	0.85
NVNT	b	2462	Ant1	82.36	0.84
NVNT	g	2412	Ant1	47.17	3.26
NVNT	g	2437	Ant1	47.48	3.24
NVNT	g	2462	Ant1	47.4	3.24
NVNT	n20	2412	Ant1	45.39	3.43
NVNT	n20	2437	Ant1	45.53	3.42
NVNT	n20	2462	Ant1	45.54	3.42
NVNT	n40	2422	Ant1	35.48	4.5
NVNT	n40	2437	Ant1	35.34	4.52
NVNT	n40	2452	Ant1	35.42	4.51

Duty Cycle NVNT b 2412MHz Ant1



Duty Cycle NVNT b 2437MHz Ant1



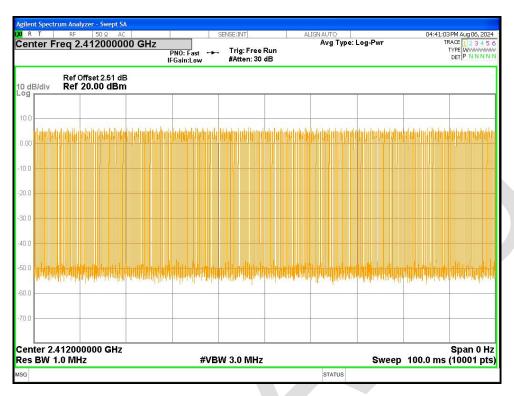


Duty Cycle NVNT b 2462MHz Ant1



Duty Cycle NVNT g 2412MHz Ant1





Duty Cycle NVNT g 2437MHz Ant1



Duty Cycle NVNT g 2462MHz Ant1