FCC CERTIFICATION TEST REPORT

Applicant	:	Apocsky Technology Private Limited
Address	:	18 SIN MING LANE, #07-03, MIDVIEW CITY, SINGAPORE (573960)
Equipment under Test	:	Portable Weather Station
Model No.	:	SKY-100
Trade Mark	:	N/A
FCC ID	:	2BMM3SKY-100
Manufacturer	:	Tianjin KanTian Technology Co., Ltd.
Address	:	No.3 JinPing Street, Ya An Road, Nankai District, Tianjin, 300190 China
Report No.	:	DDT-B24110524-4E02
Issue Date	:	Dec. 13, 2024
Issued By	:	Tianjin Dongdian Testing Service Co., Ltd.
Address	:	Building D-1, No. 19, Weisi Road, Microelectronics Industrial Park Development Area, Tianjin, China. Tel: +86-22-58038033, E-mail: ddt@dgddt.com, http://www.ddttest.com

REPORT

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Test Report Declare

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Trade Mark	:	N/A
Manufacturer	:	Tianjin KanTian Technology Co., Ltd.
Address	:	No.3 JinPing Street, Ya An Road, Nankai District, Tianjin, 300190 China

Test Standard Used: FCC Rules and Regulations Part 15 Subpart C.

Test procedure used: ANSI C63.10:2020, KDB 558074 D01 15.247 Meas Guidance v05r02

We Declare:

The equipment described above is tested by Tianjin Dongdian Testing Service Co., Ltd and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and Tianjin Dongdian Testing Service Co., Ltd is assumed of full responsibility for the accuracy and completeness of these tests.

After test and evaluation, our opinion is that the equipment provided for test compliance with the requirement of the above FCC standards.

Report No:	DDT-B24110524-4E02		
Date of Receipt:	Nov. 27, 2024	**Date of Test:**	Nov. 27, 2024 ~ Dec. 13, 2024

Prepared By: ***Approved By:***

Sunny Zhang Aaron Zhang

Sunny Zhang/Engineer ***Aaron Zhang/Manager***

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Tianjin Dongdian Testing Service Co., Ltd.
The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

Revision History

Rev.	Revisions	Issue Date	Revised By
---	Initial issue	Dec. 13, 2024	

1. Summary of Test Results

The EUT have been tested according to the applicable standards as referenced below.		
Description of Test Item	**Standard**	**Verdict**
6dB Bandwidth and 99% Bandwidth	FCC 15.247 (a) (2)	Pass
Maximum Conducted Output Power	FCC 15.247 (b) (3)	Pass
Power Spectral Density	FCC 15.247 (e)	Pass
Band-edge and Spurious Emissions (Conducted)	FCC 15.247 (d)	Pass
Radiated Spurious Emissions	FCC 15.247 (d) FCC 15.209 FCC 15.205	Pass
Radiated Band Edge Compliance	FCC 15.247 (d) FCC 15.209 FCC 15.205	Pass
Power Line Conducted Emission	FCC 15.207	Pass
Antenna Requirement	FCC 15.203	Pass

2. General Test Information

2.1. Description of EUT

EUT* Name	:	Portable Weather Station
Test Model Number	:	SKY-100
EUT Function Description	:	Please reference user manual of this device
Power Supply	:	DC 3.7V by Polymer Li-ion built-in battery or DC 5V for charging
Radio Technology	:	IEEE 802.11b/g/n
Operation Frequency	:	IEEE 802.11b: 2412MHz-2462MHz IEEE 802.11g: 2412MHz-2462MHz IEEE 802.11n HT20: 2412MHz-2462MHz IEEE 802.11n HT40: 2422MHz-2452MHz
Modulation	:	IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK) IEEE 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Transmitter Rate	:	IEEE 802.11b: 1, 2, 5.5, 11 Mbps IEEE 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps IEEE 802.11n: MCS0~MCS15
Antenna Type	:	FPC antenna, maximum PK gain: 6.01 dBi
SISO Mode	:	☒11b ☒11g ☒11n ☐11ax ☐11be
MIMO Mode	:	☐11b ☐11g ☐11n ☐11ax ☐11be

Note1: EUT is the ab. of equipment under test.

Channel information					
CH	Frequency (MHz)	CH	Frequency (MHz)	CH	Frequency (MHz)
1	2412	5	2432	9	2452
2	2417	6	2437	10	2457
3	2422	7	2442	11	2462
4	2427	8	2447	/	/

2.2. Accessories of EUT

Description of Accessories	Manufacturer	Model number	Description
POE Switching Power Supply	RISUNIC Technollogy(ShenZhen) Co., Ltd.	RP023-2400500 ZG	Input:100-240V~50/60Hz 0.5A Max, Output:24V-0.5A 12W

2.3. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	Description	SN
Notebook	Lenovo Beijing Co. Ltd.	ThinkPad	N/A	TP00067A
AC/DC adapter	N/A	EP-TA200	Input:100-240V~50-60 Hz, Output:9V/1.67A/5V/2A	R37KA8770J 1SE3

2.4. Block diagram of EUT configuration for test

EUT

Run the special test software “EspRFTestTool_v3.6_Manual.exe” provided by manufacturer to control EUT work in Continuous Tx mode, and select test channel, wireless mode and data rate.

Tested mode, channel, setting Tx power and rand data rate information				
Mode	Setting Tx Power	Data rate (Mbps) (See Note)	Channel	Frequency (MHz)
IEEE 802.11b	0	1	LCH: CH1	2412
	0	1	MCH: CH6	2437
	0	1	HCH: CH11	2462
IEEE 802.11g	0	6	LCH: CH1	2412
	0	6	MCH: CH6	2437
	0	6	HCH: CH11	2462
IEEE 802.11n HT20	0	MCS 0	LCH: CH1	2412
	0	MCS 0	MCH: CH6	2437
	0	MCS 0	HCH: CH11	2462
IEEE 802.11n HT40	0	MCS 0	LCH: CH3	2422
	0	MCS 0	MCH: CH6	2437
	0	MCS 0	HCH: CH9	2452
Note1: According exploratory test, EUT will have maximum output power in those data rate, so those data rate were used for all test.				

2.5. Deviations of test standard

No Deviation

2.6. Test environment conditions

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

Temperature range:	21-28℃
Humidity range:	20-75%
Pressure range:	86-106kPa

2.7. Test laboratory

Tianjin Dongdian Testing Service Co., Ltd.
Address: Building D-1, No. 19, Weisi Road, Microelectronics Industrial Park Development Area, Tianjin, China.
Tel: +86-22-58038033, http://www.ddttest.com, Email: ddt@dgddt.com
NVLAP (National Voluntary Laboratory Accreditation Program) CODE: 500036-0
CNAS (China National Accreditation Service for Conformity Assessment) CODE: L13402
FCC Designation Number: CN5004; FCC Test Firm Registration Number: 368676
ISED (Innovation, Science and Economic Development Canada) Company Number: 27768
Conformity Assessment Body Identifier: CN0125
VCCI Facility Registration Number: C-20089, T-20093, R-20125, G-20122

2.8. Measurement uncertainty

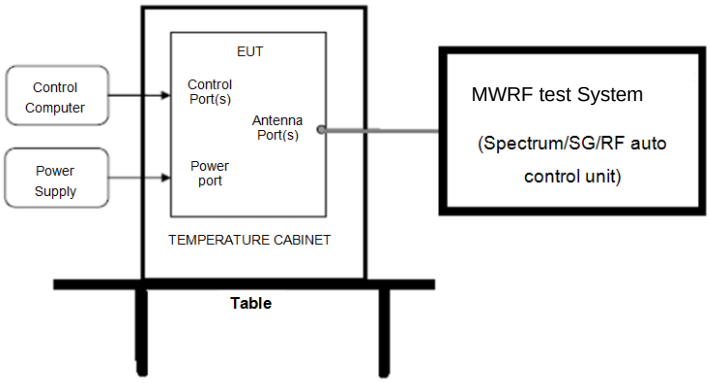
Test Item	Uncertainty
Bandwidth	0.14%
Peak Output Power (Conducted) (Spectrum Analyzer)	0.12 dB (10 MHz ≤ f < 3.6 GHz);
	0.32 dB (3.6 GHz ≤ f < 8 GHz)
Peak Output Power (Conducted) (Power Sensor)	0.51 dB
Power Spectral Density	0.12 dB (10 MHz ≤ f < 3.6 GHz);
	0.32 dB (3.6 GHz ≤ f < 8 GHz)
Frequencies Stability	6.7 x 10^{-8} (Antenna couple method)
	3.4 x 10^{-8} (Conducted method)
Conducted Spurious Emissions	0.12 dB (10 MHz ≤ f < 3.6 GHz);
	0.32 dB (3.6 GHz ≤ f < 8 GHz)
	0.52 dB (8 GHz ≤ f < 22 GHz)
Uncertainty for Radio Frequency (RBW < 20 kHz)	3×10^{-7}
Temperature	±2℃
Humidity	±1%
Uncertainty for Radiation Emission Test (30 MHz - 1 GHz)	2.72 dB (Antenna Polarize: V)
	2.72 dB (Antenna Polarize: H)
Uncertainty for Radiation Emission Test (1 GHz - 40 GHz)	2.74 dB (1 - 6 GHz)
	2.72 dB (6 GHz - 18 GHz)
	3.54 dB (18 GHz - 26 GHz)
	4.30 dB (26 GHz - 40 GHz)
Uncertainty for Power Line Conduction Emission Test	3.40 dB (150 kHz - 30 MHz)
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

3. Equipment Used During Test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
RF Connected Test (MWRFtest system)					
EXG Analog Signal Generator	Keysight	N5173B	MY53270968	2024/03/22	1 Year
MXG Vector Signal Generator	Keysight	N5182A	MY50143288	2024/02/21	1 Year
PXA Signal Analyzer	Keysight	N9030B	MY56320639	2024/04/01	1 Year
PXA Signal Analyzer	Keysight	N9010A	MY53281492	2024/02/21	1 Year
Wideband Radio Communication Tester	R&S	CMW500	158800	2024/02/21	1 Year
Power Sensor	KEYSIGHT	U2021XA	MY59150007	2024/02/21	1 Year
DC Power Supply	inSTEK	PSP-2010	EN122317	2024/02/03	1 Year
Test Software	MWRFtest	MTS8310	V03	N/A	N/A
Radiated Emission -10m EMI Chamber					
Broadband Horn Antenna	TESEQ	BHA 9118	31754	2023/10/11	2 Year
Broad Band Horn Antenna	Com-Power	AHA-840	10100024	2023/10/16	2 Year
Active Loop Antenna	R&S	HFH2-Z2	100269	2024/08/25	2 Year
Amplifier	CMO-MW	DPA8 1000 1800	09211739	2024/02/18	1 Year
EMI Test Receiver	R&S	ESCI	101024	2024/02/18	1 Year
EMI Test Receiver	R&S	ESCI	101030	2024/02/18	1 Year
EMI Test Receiver	R&S	ESU26	100244	2024/02/18	1 Year
EXA Signal Analyzer	Keysight	N9010A	MY53281492	2024/02/21	1 Year
Bilog Antenna	TESEQ	CBL6112D	29068	2024/10/10	2 Year
Bilog Antenna	TESEQ	CBL6112D	29069	2024/10/10	2 Year
Amplifier	Sonoma	310N	300913	2024/02/18	1 Year
Amplifier	Sonoma	310N	334532	2024/02/18	1 Year
Ant Mast	Innco	MA4000	N/A	N/A	N/A
Ant Mast	Innco	MA4000	N/A	N/A	N/A
Mast Controller	Innco	CO2000	N/A	N/A	N/A
Mast Controller	Innco	CO2000	N/A	N/A	N/A
RF Selector 4CH	TOYO	NS4904N	Selector1	N/A	N/A
RF Selector 4CH	TOYO	NS4904N	Selector2	N/A	N/A
Test software	TOYO	EP5/RSE	Ver 1.9.1	N/A	N/A
Test software	Audix	E3	V 6.11111b	N/A	N/A
Power Line Conducted Emissions Test					
Test Receiver	R&S	ESCI	101395	2024/02/18	1 Year
LISN	R&S	ENV216	101122	2024/02/18	1 Year
Test software	TOYO	EP5/CE	V 5.4.40	N/A	N/A

4. 6dB Bandwidth and 99% Bandwidth

4.1. Block diagram of test setup



4.2. Limits

For direct sequence systems, the minimum 6 dB bandwidth shall be at least 500 kHz

4.3. Test procedure

(1) Connect EUT's antenna output to spectrum analyzer by RF cable.

(2) 99% Bandwidth set the spectrum analyzer as follows:

RBW:	1% to 5% of the OBW
VBW:	Three times the RBW
Detector Mode:	Peak
Sweep time:	auto
Trace mode	Max hold

(3) 6dB Bandwidth set the spectrum analyzer as follows:

RBW:	100 kHz
VBW:	300 kHz
Detector Mode:	Peak
Sweep time:	auto
Trace mode	Max hold

(4) Allow the trace to stabilize, 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.

4.4. Test result

Pass
Please find the detailed data in APPENDIXES-2.4G WiFi-FCC.

5. Duty Cycle

5.1. Block diagram of test setup

Same as section 4.1

5.2. Limit

Just for Report.

5.3. Test procedure

(1) Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, The cable loss and attenuator loss have been put into spectrum analyzer as amplitude offset.

set the Spectrum Analyzer as below:

Centre Frequency: The center frequency of the middle hopping channel.

Resolution BW: 1 MHz.

Video BW: 3 MHz.

Span: Zero span.

Detector: Peak.

Trace Mode: Free Run

Sweep: Single

(2) When the trace is complete, measure the sending time of 1 burst and the duty cycle of 1 burst cycle.

(3) Calculate dwell time follow below formula:

Duty cycle= Pulse's on time / Burst cycle

5.4. Test result

Please find the detailed data in APPENDIXES-2.4G WiFi-FCC.

6. Maximum AV Conducted Output Power

6.1. Block diagram of test setup

Same as section 4.1

6.2. Limits

For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

6.3. Test procedure

1. The test according to ANSI C63.10-2020 clause 11.9.2.2.4.
2. Connect EUT's antenna output to RF power meter by RF cable, the path loss was compensated to the results.
3. Set the EUT as maximum power setting and enable the EUT transmit continuously, If the transmitter does not transmit continuously, measure the duty cycle, D, of the transmitter output signal.
4. Measure the average power of the transmitter. This measurement is an average over both the ON and OFF periods of the transmitter.
5. Adjust the measurement in dBm by adding [10 log (1 / D)], where D is the duty cycle.
6. Record the RF average power of each antenna port.

6.4. Test result

Pass
Please find the detailed data in APPENDIXES-2.4G WiFi-FCC.

7. Power Spectral Density

7.1. Block diagram of test setup

Same as section 4.1

7.2. Limits

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

7.3. Test procedure

According to ANSI C63.10-2020 clause 11.10.5, Connect EUT's antenna output to spectrum analyzer by RF cable.

a) Measure the duty cycle (D) of the transmitter output signal.
b) Set instrument center frequency to DTS channel center frequency.
c) Set span to > 1.5 times the OBW.
d) Set RBW to: 3 kHz ⩽ RBW ⩽ 100 kHz.
e) Set VBW ⩾ [3 × RBW].
f) Detector = power averaging (rms) or sample detector (when rms not available).
g) Ensure that the number of measurement points in the sweep ⩾ [2 × span / RBW].
h) Sweep time = auto couple.
i) Do not use sweep triggering; allow sweep to "free run."
j) Employ trace averaging (rms) mode over a minimum of 100 traces.
k) Use the peak marker function to determine the maximum amplitude level.
l) Add [10 log (1 / D)], where D is the duty cycle measured in step a), to the measured PSD to compute the average PSD during the actual transmission time.
m) If measured value exceeds requirement specified by regulatory agency, then reduce RBW (but no less than 3 kHz) and repeat (note that this might require zooming in on the emission of interest and reducing the span to meet the minimum measurement point requirement as the RBW is reduced).

7.4. Test result

Pass
Please find the detailed data in APPENDIXES-2.4G WiFi-FCC.

8. Band Edge Compliance (Conducted Method)

8.1. Block diagram of test setup

Same as section 4.1

8.2. Limits

In any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator in operating, the radio frequency power that is produced by the intentional radiator shall be at least 30 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power.

8.3. Test procedure

(1) Connect EUT's antenna output to spectrum analyzer by RF cable.

(2) Establish a reference level by using the following procedure:

Center frequency	DTS Channel center frequency
RBW:	100 kHz
VBW:	300 kHz
Span	1.5 times the DTS bandwidth
Detector Mode:	Peak
Sweep time:	auto
Trace mode	Max hold

(3) Allow the trace to stabilize, use the peak marker function to determine the maximum peak power level to establish the reference level.

(4) Set the spectrum analyzer as follows:

RBW:	100 kHz
VBW:	300 kHz
Span	Encompass frequency range to be measured
Number of measurement points	≥span/RBW
Detector Mode:	Peak
Sweep time:	auto
Trace mode	Max hold

(5) Allow the trace to stabilize, use the peak marker function to determine the maximum amplitude of all unwanted emissions outside of the authorized frequency band

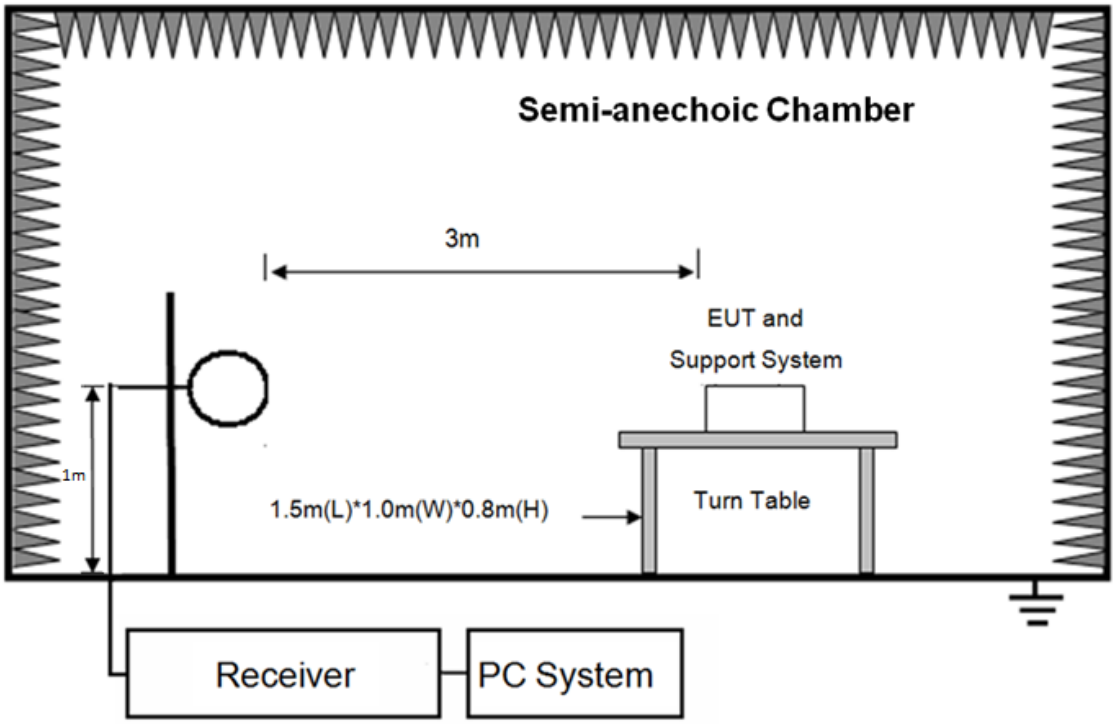
8.4. Test result

Pass
Please find the detailed data in APPENDIXES-2.4G WiFi-FCC.

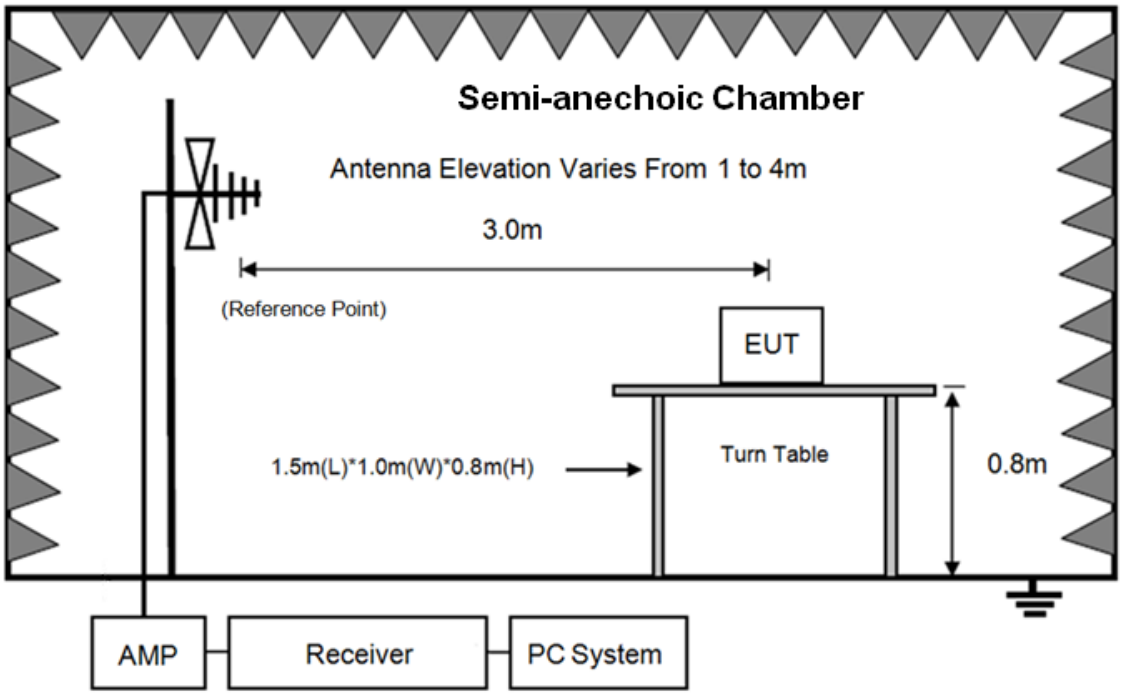
9. Radiated Spurious Emissions

9.1. Block diagram of test setup

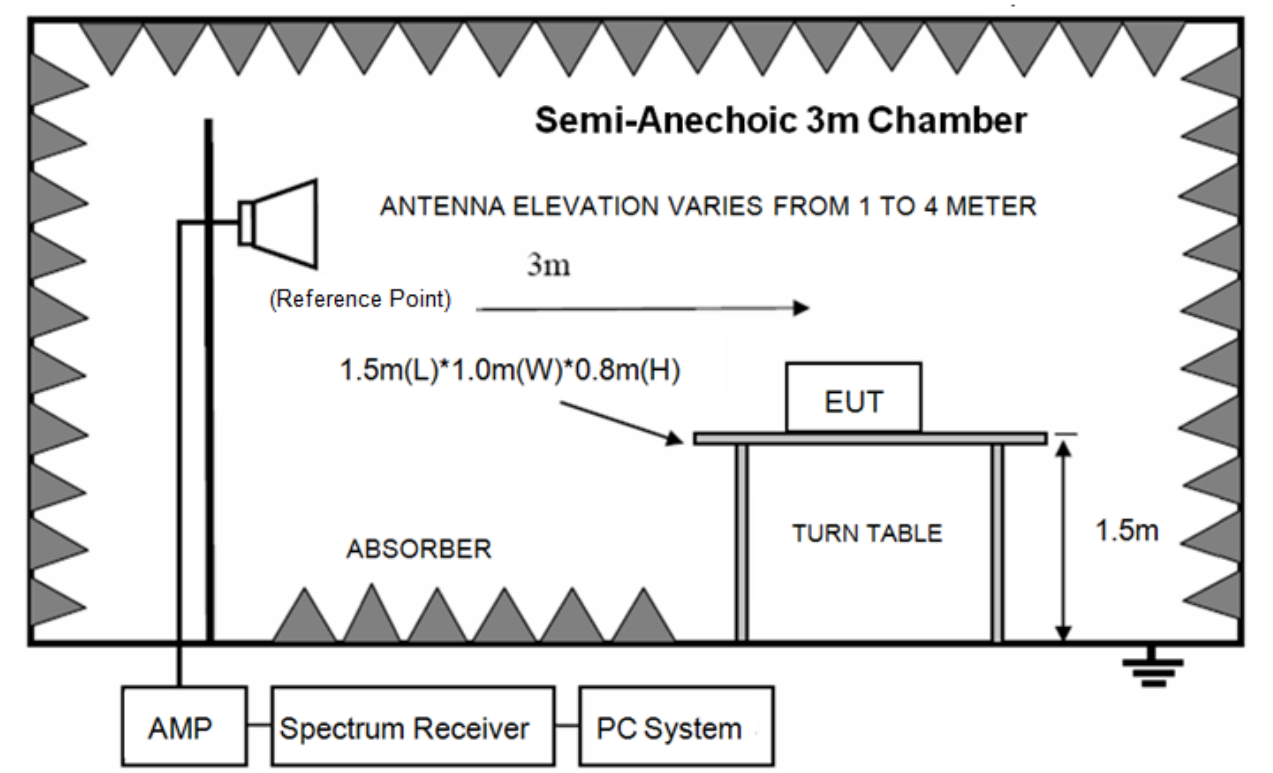
In 3 m Anechoic Chamber, test setup diagram for 9 kHz - 30 MHz:



In 3 m Anechoic Chamber, test setup diagram for 30 MHz – 1 GHz:



In 3 m Anechoic Chamber, test setup diagram for frequency above 1 GHz:



Note: For harmonic emissions test an appropriate high pass filter was inserted in the input port of AMP.

9.2. Limit

(1) FCC 15.205 Restricted frequency band

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
[1]0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.1772&4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.2072&4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	([2])
13.36-13.41			

[1]Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

[2]Above 38.6

(2) FCC 15.209 Limit.

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		μV/m	dB(μV)/m
0.009 ~ 0.490	300	2400/F(kHz)	67.6-20log(F)
0.490 ~ 1.705	30	24000/F(kHz)	87.6-20log(F)
1.705 ~ 30.0	30	30	29.54
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	74.0 dB(μV)/m (Peak) 54.0 dB(μV)/m (Average)	

Note: (1) The emission limits shown in the above table are based on measurements employing a CISPR QP detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000MHz. Radiated emissions limits in these three bands are based on measurements employing an average detector.

(2) At frequencies below 30MHz, measurement may be performed at a distance closer than that specified, and the limit at closer measurement distance can be extrapolated by below formula:

$$Limit_{3m}(dBuV/m) = Limit_{30m}(dBuV/m) + 40Log(30m/3m)$$

(4) Limit for this EUT

All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20dB below the fundamental emissions or comply with 15.209 limits.

9.3. Test procedure

(1) EUT height should be 0.8 m for below 1 GHz at a semi-anechoic chamber while EUT height should be 1.5 m for above 1 GHz at full chamber or semi-anechoic chamber ground with absorbers.

(2) The antenna used as below table.

Test frequency range	Test antenna used	Measuring distance
9 kHz-30 MHz	Active Loop antenna	3 m
30 MHz-1 GHz	Trilog Broadband Antenna	3 m
1 GHz-18 GHz	Double Ridged Horn Antenna(1GHz-18GHz)	3 m

18 GHz-40 GHz	Horn Antenna(18GHz-40GHz)	3 m

According ANSI C63.10:2020 clause 6.4.4.2 and 6,5.3, for measurements below 30 MHz, the loop antenna was positioned with its plane vertical from the EUT and rotated about its vertical axis for maximum response at each azimuth position around the EUT. And the loop antenna also be positioned with its plane horizontal at the specified distance from the EUT. The center of the loop is 1 m above the ground. for measurement above 30 MHz, the Trilog Broadband Antenna was located 3 m, Horn Antenna was located 3 m from EUT, Measurements were made with the antenna positioned in both the horizontal and vertical planes of Polarization, and the measurement antenna was varied from 1 m to 4 m. in height above the reference ground plane to obtain the maximum signal strength.

(3) Below pre-scan procedure was first performed in order to find prominent frequency spectrum radiated emissions from 9 kHz to 25 GHz:

(a) Scanning the peak frequency spectrum with the antenna specified in step (3), and the EUT was rotated 360 degrees, the antenna height was varied from 1 m to 4 m (Except loop antenna, it's fixed 1m above ground.)

(b) Change work frequency or channel of device if practicable.

(c) Change modulation type of device if practicable.

(d) Change power supply range from 85% to 115% of the rated supply voltage

(e) Rotated EUT though three orthogonal axes to determine the attitude of EUT arrangement produces highest emissions.

Spectrum frequency from 9 kHz to 25 GHz (tenth harmonic of fundamental frequency) was investigated, and no any obvious emission were detected from 18GHz to 25GHz, so below final test was performed with frequency range from 9kHz to 18GHz.

(4) For final emissions measurements at each frequency of interest, the EUT was rotated and the antenna height was varied between 1 m and 4 m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipment and all of the interface cables were changed according to ANSI C63.10 2020 on Radiated Emission test.

(5) The emissions from 9 kHz to 1 GHz were measured based on CISPR QP detector except for the frequency bands 9-90 kHz, 110-490 kHz, for emissions from 9 kHz-90 kHz,110 kHz-490 kHz and above 1 GHz were measured based on average detector, for emissions above 1 GHz, peak emissions also be measured and need comply with Peak limit.

(6) The emissions from 9 kHz to 1 GHz, QP or average values were measured with EMI receiver with below RBW

Frequency band	RBW
9 kHz-150 kHz	200 Hz
150 kHz-30 MHz	9 kHz
30 MHz-1 GHz	120 kHz

(7) For emissions above 1GHz, both Peak and Average level were measured with Spectrum Analyzer, and the RBW is set at 1 MHz, VBW is set at 3 MHz for Peak measure, the RBW is set at 1 MHz, VBW is set at 1/T (T is transmitting time in one period) Hz for AV value.

(8) X axis, Y axis, Z axis are tested, and worse setup X axis is reported.

9.4. Test result

Pass. (See below detailed test result)

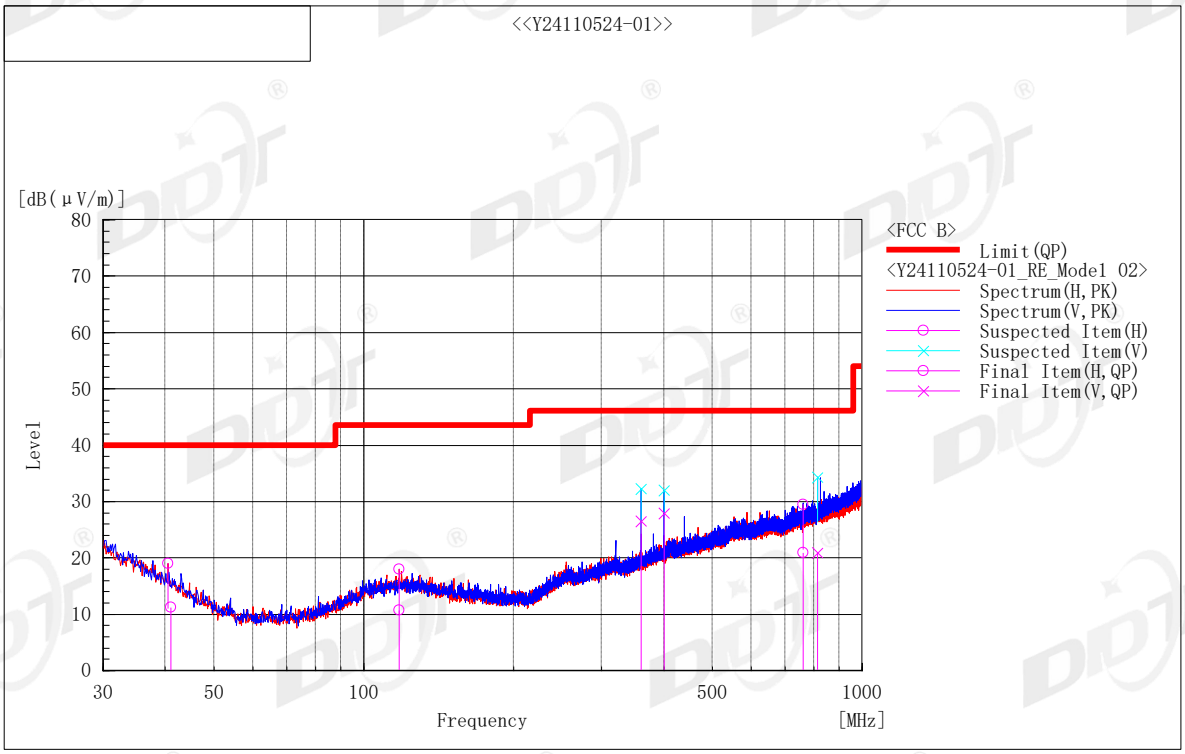
All the emissions except fundamental emission from 9 kHz to 25 GHz were comply with 15.209 limit.

Note1: According exploratory test no any obvious emission was detected from 9 kHz to 30 MHz and 18 GHz to 25 GHz, so the final test was performed with frequency range from 30 MHz to 18 GHz and recorded in below.

Note2: For emissions below 1 GHz, according exploratory explorer test, when change Tx mode and channel, have no distinct influence on emissions level, so for emissions below 1 GHz, the final test was only performed with EUT working in transmission mode.

Note3: Scan with all modes, the worst case was recorded in this report.

Radiated Emission test (below 1GHz)



Final Result

No.	Frequency [MHz]	(P)	Reading QP [dB(μV)]	c.f [dB(1/m)]	Result QP [dB(μV/m)]	Limit QP [dB(μV/m)]	Margin QP [dB]	Height [cm]	Angle [°]	System
1	41.076	H	22.1	-10.9	11.2	40.0	28.8	173.0	319.9	1
2	117.808	H	21.1	-10.4	10.7	43.5	32.8	187.0	259.2	1
3	760.527	H	18.8	2.1	20.9	46.0	25.1	321.0	232.6	1
4	360.009	V	32.2	-5.6	26.6	46.0	19.4	219.0	218.5	2
5	399.985	V	32.1	-4.1	28.0	46.0	18.0	109.0	44.8	2
6	813.410	V	17.6	3.3	20.9	46.0	25.1	104.0	212.0	2

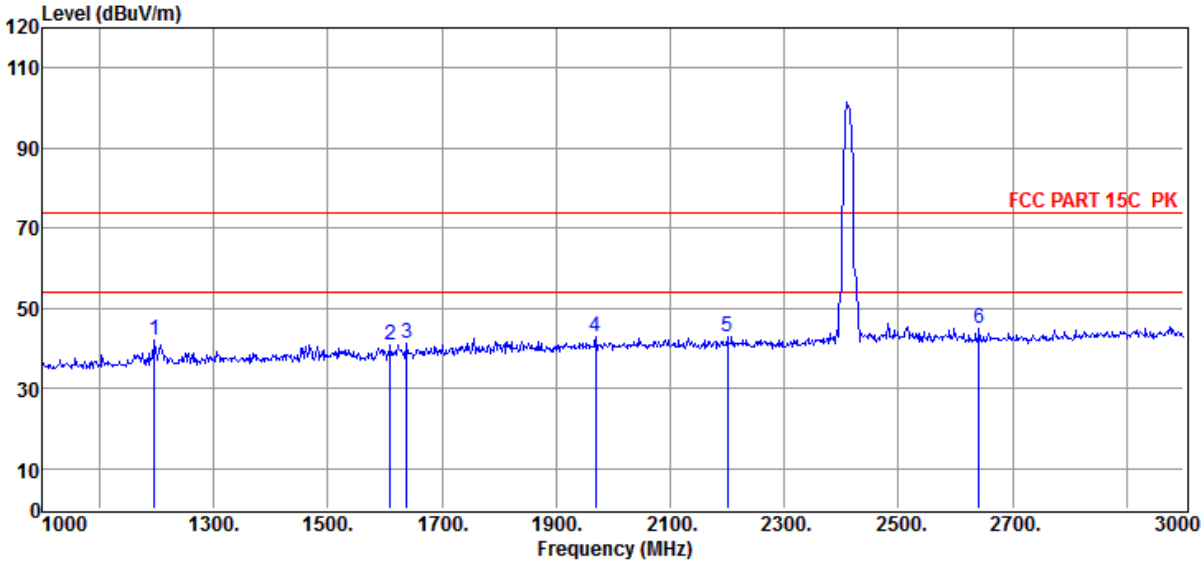
Note) Receiving antenna polarization: Horizontal and/or Vertical
Test Distance: 3 m, Antenna Height: 1 m to 4 m
Level QP (Quasi-Peak) = Reading QP + Factor (Antenna Factor + Cable Loss - Amp. Gain)
Margin QP (Quasi-Peak) = Limit – Level QP

Radiated Emission test (1GHz -3GHz)

Radiated Emission Test Result

Test Site	: 10m Chamber		
Test Date	: 11-29-2024	**Tested By**	: Sunny
EUT	: Portable Weather Station	**Model Number**	: SKY-100
Power Supply	: by battery	**Test Mode**	: Tx mode
Memo	: 11b 1M 2412MHz		

Data: 33



Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	1196.00	57.98	24.67	2.88	41.87	74.00	-32.13	Peak	HORIZONTAL
2	1610.00	55.33	26.27	3.11	40.93	74.00	-33.07	Peak	HORIZONTAL
3	1638.00	55.50	26.42	3.17	41.30	74.00	-32.70	Peak	HORIZONTAL
4	1970.00	55.08	28.14	3.60	42.93	74.00	-31.07	Peak	HORIZONTAL
5	2200.00	54.74	28.34	3.83	43.07	74.00	-30.93	Peak	HORIZONTAL
6	2642.00	56.11	28.80	3.95	45.15	74.00	-28.85	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

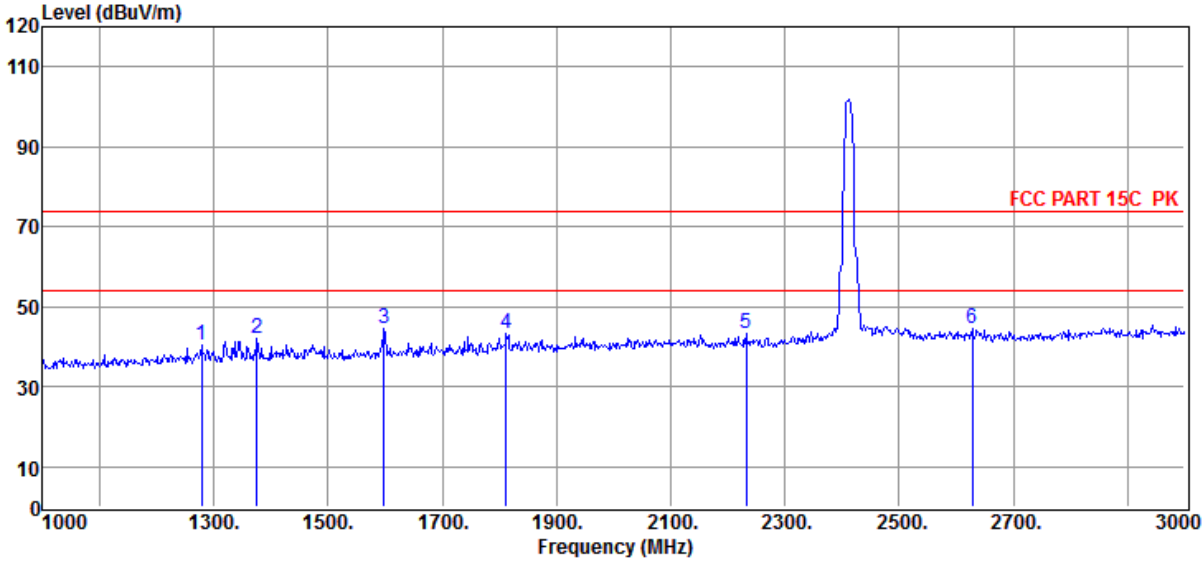
Test Date : 11-29-2024 **Tested By** : Sunny

EUT : Portable Weather Station **Model Number** : SKY-100

Power Supply : by battery **Test Mode** : Tx mode

Memo : 11b 1M 2412MHz

Data: 34



Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	1278.00	56.18	24.95	2.97	40.42	74.00	-33.58	Peak	VERTICAL
2	1376.00	57.37	25.28	3.10	42.04	74.00	-31.96	Peak	VERTICAL
3	1598.00	59.18	26.21	3.09	44.70	74.00	-29.30	Peak	VERTICAL
4	1812.00	56.64	27.32	3.37	43.49	74.00	-30.51	Peak	VERTICAL
5	2232.00	54.85	28.35	3.76	43.13	74.00	-30.87	Peak	VERTICAL
6	2628.00	55.54	28.76	3.94	44.53	74.00	-29.47	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

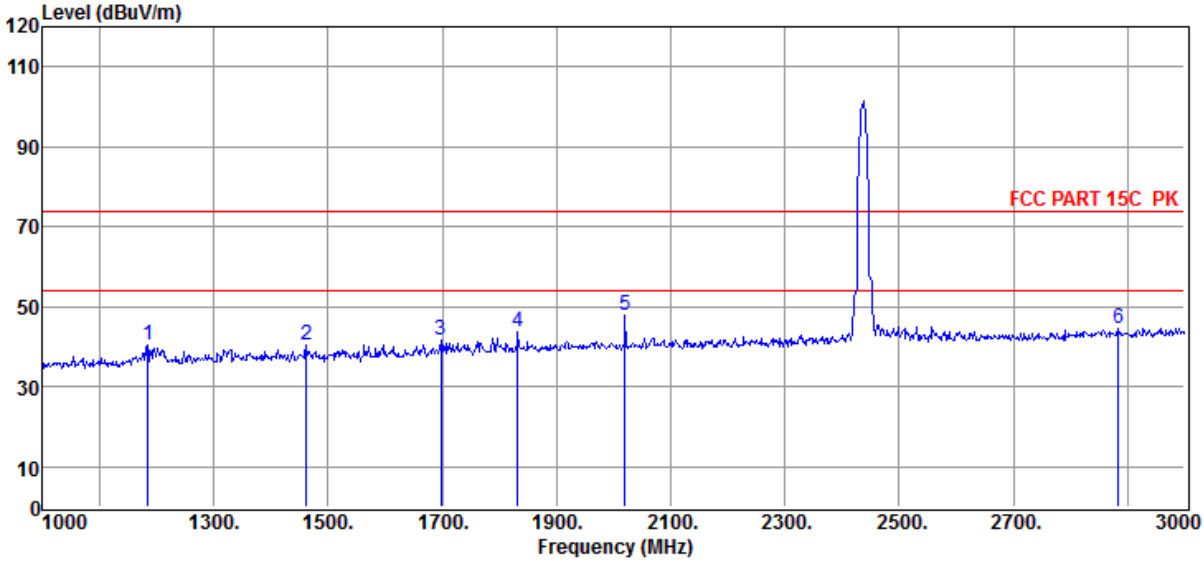
Test Date : 11-29-2024 **Tested By** : Sunny

EUT : Portable Weather Station **Model Number** : SKY-100

Power Supply : by battery **Test Mode** : Tx mode

Memo : 11b 1M 2437MHz

Data: 35



Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	1184.00	56.68	24.63	2.80	40.45	74.00	-33.55	Peak	HORIZONTAL
2	1462.00	55.62	25.57	3.08	40.53	74.00	-33.47	Peak	HORIZONTAL
3	1698.00	55.67	26.73	3.19	41.78	74.00	-32.22	Peak	HORIZONTAL
4	1832.00	56.57	27.43	3.36	43.51	74.00	-30.49	Peak	HORIZONTAL
5	2020.00	59.98	28.30	3.45	47.84	74.00	-26.16	Peak	HORIZONTAL
6	2884.00	54.76	29.48	4.07	44.68	74.00	-29.32	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

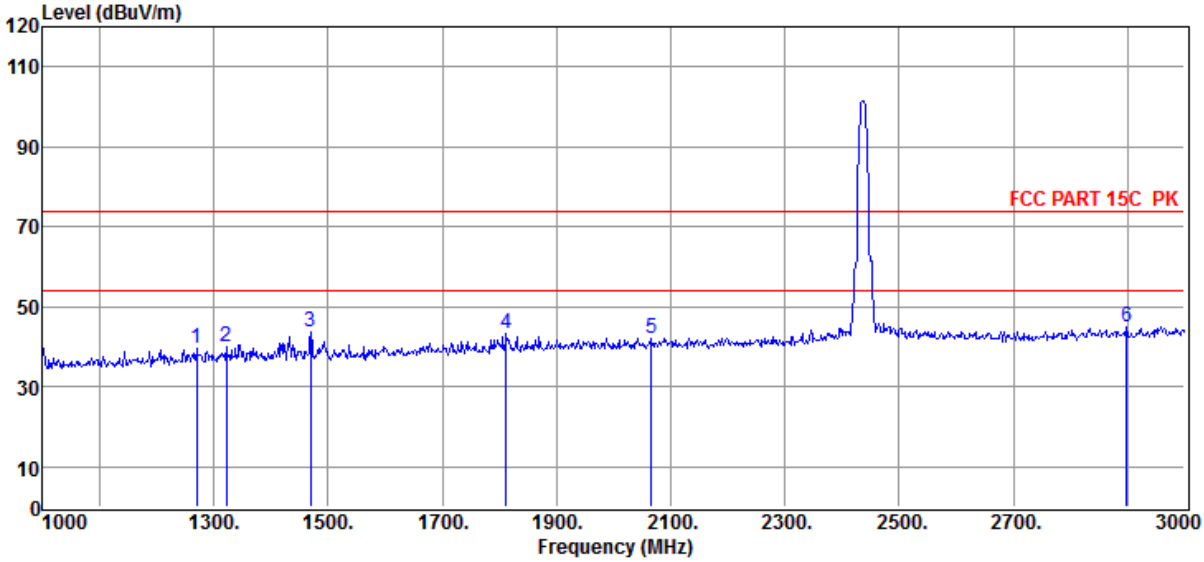
Test Date : 11-29-2024 **Tested By** : Sunny

EUT : Portable Weather Station **Model Number** : SKY-100

Power Supply : by battery **Test Mode** : Tx mode

Memo : 11b 1M 2437MHz

Data: 36



Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	1270.00	55.51	24.92	2.97	39.72	74.00	-34.28	Peak	VERTICAL
2	1322.00	55.40	25.09	3.06	39.85	74.00	-34.15	Peak	VERTICAL
3	1470.00	58.58	25.60	3.12	43.56	74.00	-30.44	Peak	VERTICAL
4	1812.00	56.26	27.32	3.37	43.11	74.00	-30.89	Peak	VERTICAL
5	2066.00	54.25	28.31	3.56	42.24	74.00	-31.76	Peak	VERTICAL
6	2898.00	54.85	29.51	4.07	44.80	74.00	-29.20	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

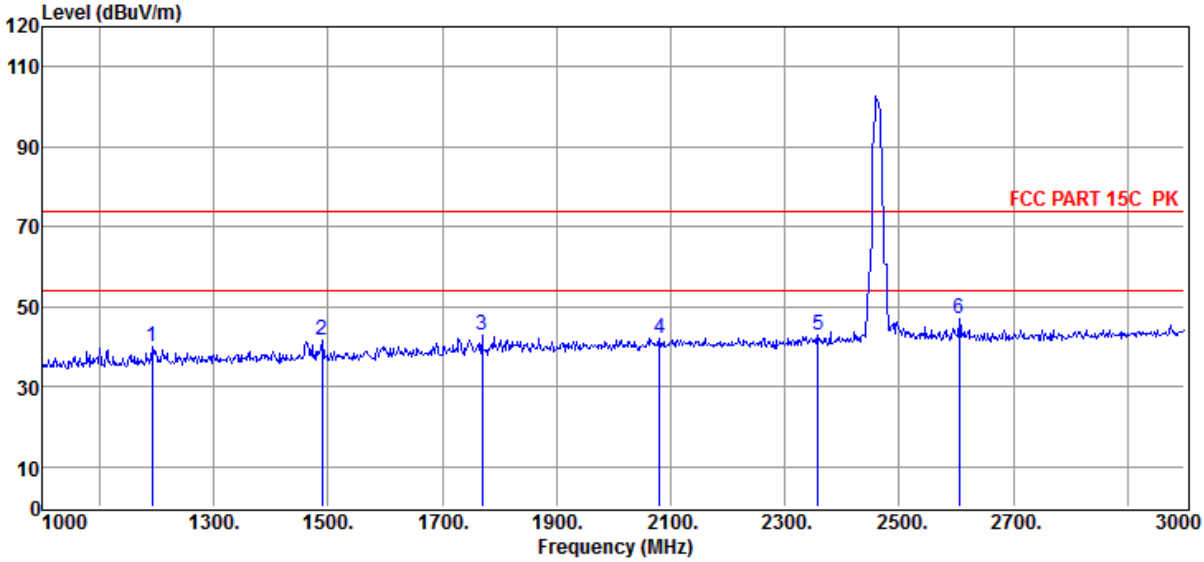
Test Date : 11-29-2024 **Tested By** : Sunny

EUT : Portable Weather Station **Model Number** : SKY-100

Power Supply : by battery **Test Mode** : Tx mode

Memo : 11b 1M 2462MHz

Data: 37



Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	1192.00	56.31	24.65	2.86	40.16	74.00	-33.84	Peak	HORIZONTAL
2	1490.00	56.52	25.67	3.21	41.65	74.00	-32.35	Peak	HORIZONTAL
3	1770.00	56.12	27.10	3.30	42.69	74.00	-31.31	Peak	HORIZONTAL
4	2080.00	54.20	28.32	3.62	42.26	74.00	-31.74	Peak	HORIZONTAL
5	2358.00	54.31	28.37	3.94	42.83	74.00	-31.17	Peak	HORIZONTAL
6	2606.00	58.21	28.70	3.92	47.11	74.00	-26.89	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

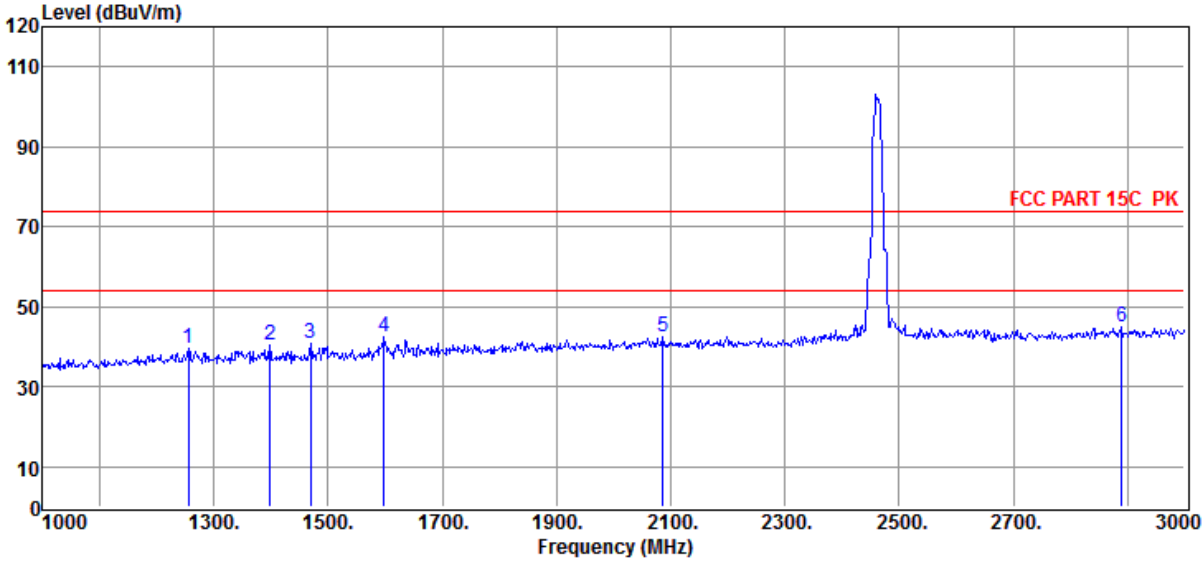
Test Date : 11-29-2024 **Tested By** : Sunny

EUT : Portable Weather Station **Model Number** : SKY-100

Power Supply : by battery **Test Mode** : Tx mode

Memo : 11b 1M 2462MHz

Data: 38



Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	1256.00	55.47	24.87	2.99	39.65	74.00	-34.35	Peak	VERTICAL
2	1398.00	55.97	25.35	3.02	40.62	74.00	-33.38	Peak	VERTICAL
3	1470.00	55.91	25.60	3.12	40.89	74.00	-33.11	Peak	VERTICAL
4	1598.00	56.91	26.21	3.09	42.43	74.00	-31.57	Peak	VERTICAL
5	2086.00	54.25	28.32	3.65	42.35	74.00	-31.65	Peak	VERTICAL
6	2890.00	54.85	29.49	4.07	44.78	74.00	-29.22	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

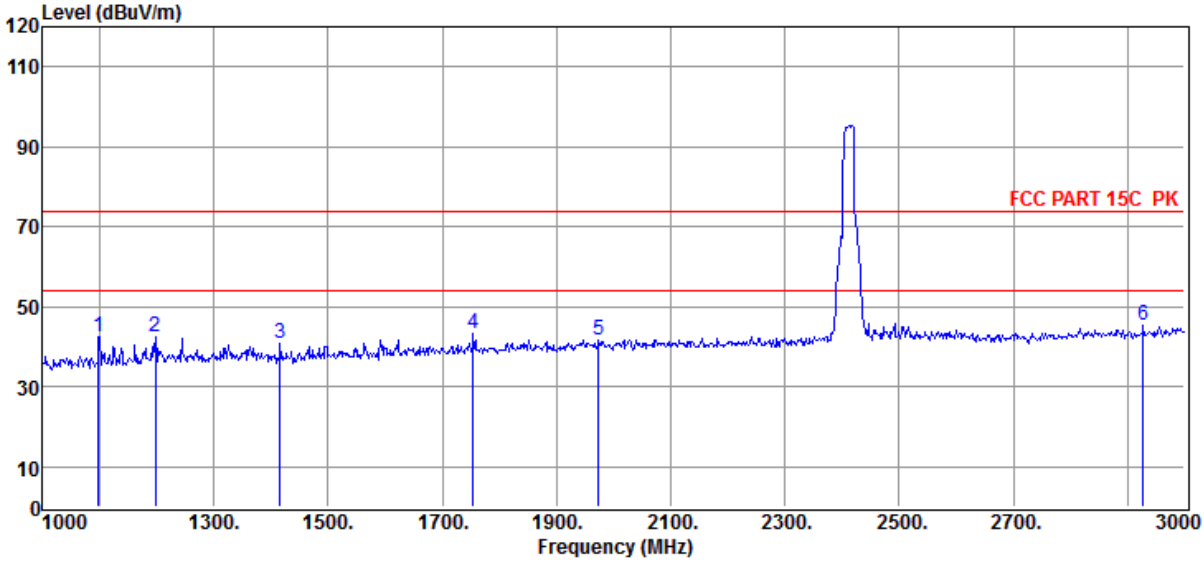
Test Date : 11-29-2024 **Tested By** : Sunny

EUT : Portable Weather Station **Model Number** : SKY-100

Power Supply : by battery **Test Mode** : Tx mode

Memo : 11g 6M 2412MHz

Data: 39



Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	1098.00	59.08	24.33	2.65	42.43	74.00	-31.57	Peak	HORIZONTAL
2	1198.00	58.74	24.67	2.90	42.65	74.00	-31.35	Peak	HORIZONTAL
3	1416.00	56.08	25.41	3.02	40.79	74.00	-33.21	Peak	HORIZONTAL
4	1754.00	56.75	27.02	3.26	43.20	74.00	-30.80	Peak	HORIZONTAL
5	1974.00	53.97	28.16	3.58	41.82	74.00	-32.18	Peak	HORIZONTAL
6	2928.00	55.19	29.60	4.14	45.31	74.00	-28.69	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

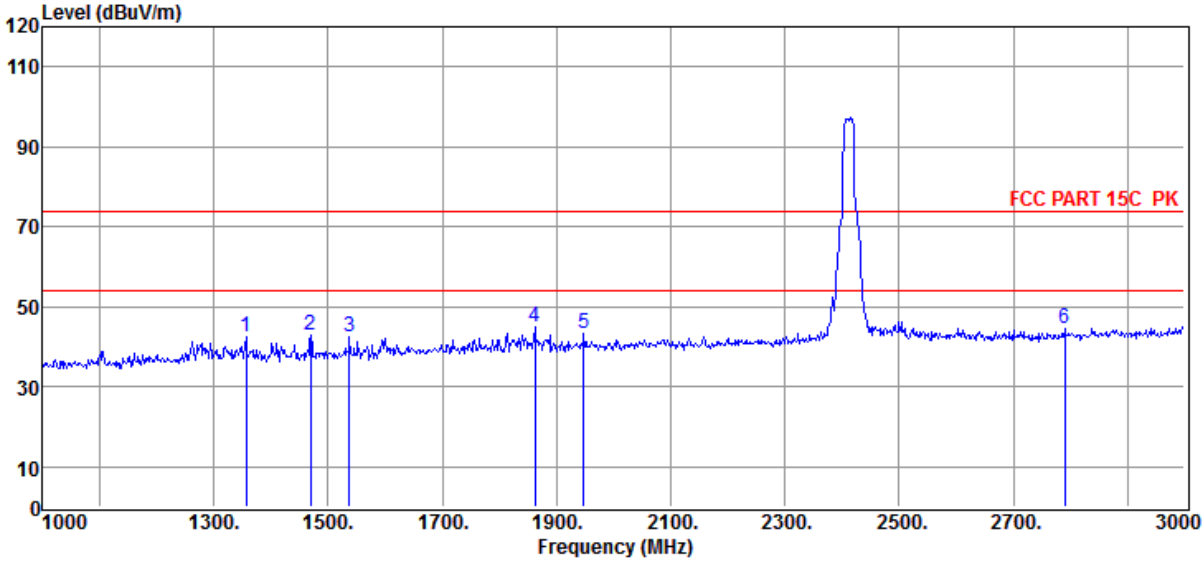
Test Date : 11-29-2024 **Tested By** : Sunny

EUT : Portable Weather Station **Model Number** : SKY-100

Power Supply : by battery **Test Mode** : Tx mode

Memo : 11g 6M 2412MHz

Data: 40



Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	1356.00	57.70	25.21	3.17	42.37	74.00	-31.63	Peak	VERTICAL
2	1470.00	58.00	25.60	3.12	42.98	74.00	-31.02	Peak	VERTICAL
3	1538.00	57.31	25.90	3.11	42.56	74.00	-31.44	Peak	VERTICAL
4	1862.00	58.00	27.58	3.35	45.07	74.00	-28.93	Peak	VERTICAL
5	1948.00	55.50	28.03	3.70	43.35	74.00	-30.65	Peak	VERTICAL
6	2790.00	54.82	29.21	4.09	44.46	74.00	-29.54	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

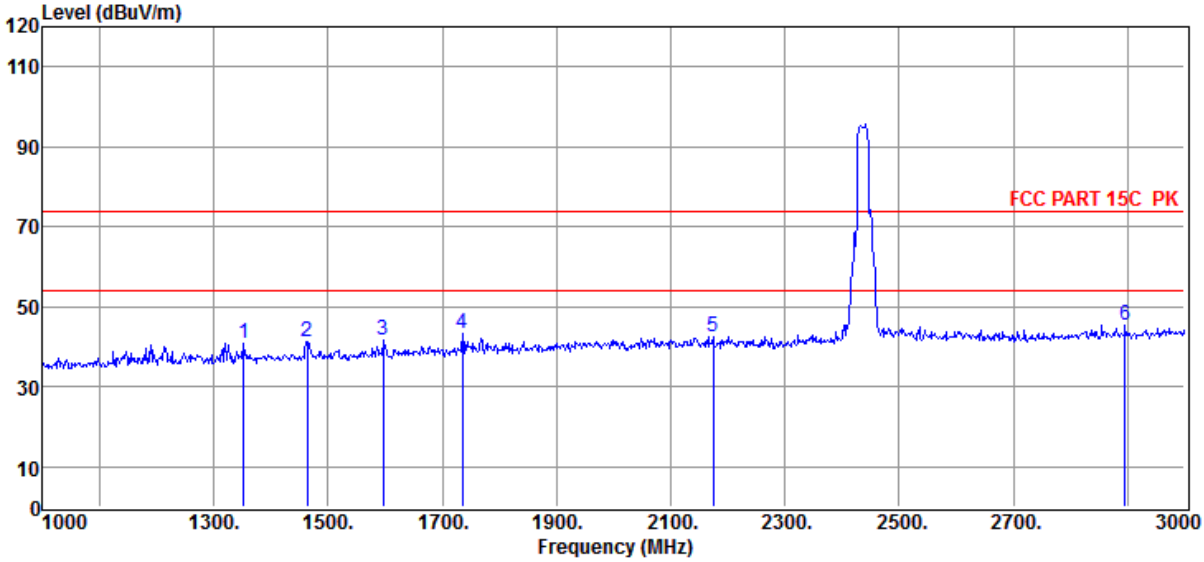
Test Date : 11-29-2024 **Tested By** : Sunny

EUT : Portable Weather Station **Model Number** : SKY-100

Power Supply : by battery **Test Mode** : Tx mode

Memo : 11g 6M 2437MHz

Data: 41



Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	1352.00	56.13	25.20	3.18	40.80	74.00	-33.20	Peak	HORIZONTAL
2	1464.00	56.43	25.58	3.09	41.36	74.00	-32.64	Peak	HORIZONTAL
3	1596.00	56.08	26.20	3.09	41.59	74.00	-32.41	Peak	HORIZONTAL
4	1736.00	56.94	26.93	3.23	43.28	74.00	-30.72	Peak	HORIZONTAL
5	2174.00	54.29	28.33	3.66	42.43	74.00	-31.57	Peak	HORIZONTAL
6	2896.00	55.34	29.51	4.07	45.29	74.00	-28.71	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

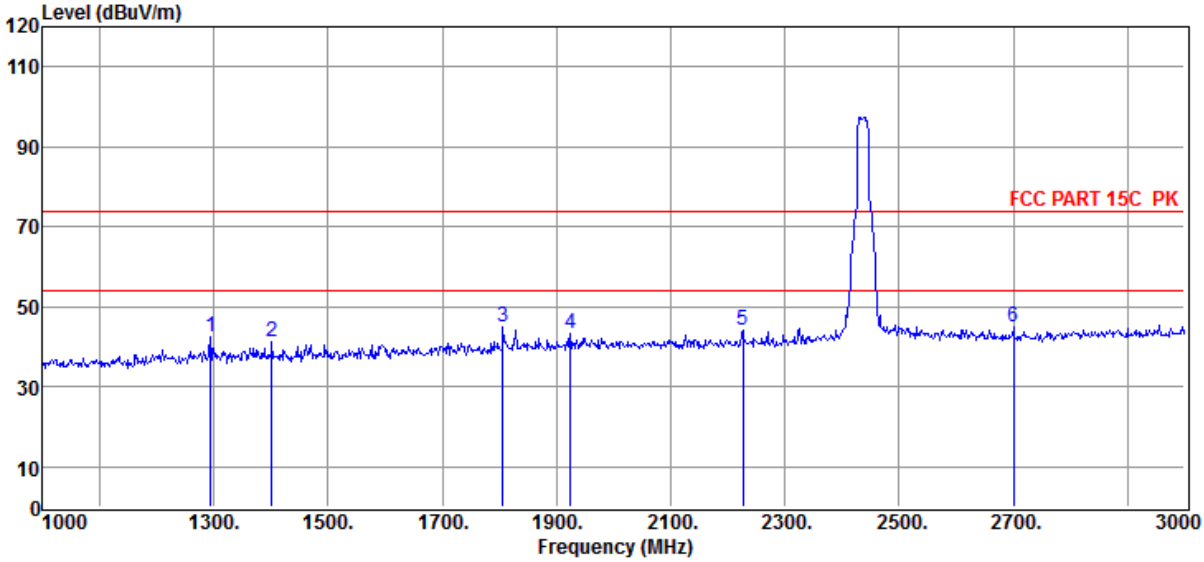
Test Date : 11-29-2024 **Tested By** : Sunny

EUT : Portable Weather Station **Model Number** : SKY-100

Power Supply : by battery **Test Mode** : Tx mode

Memo : 11g 6M 2437MHz

Data: 42



Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	1294.00	58.05	25.00	2.95	42.31	74.00	-31.69	Peak	VERTICAL
2	1402.00	56.49	25.37	3.01	41.15	74.00	-32.85	Peak	VERTICAL
3	1806.00	58.14	27.29	3.37	44.96	74.00	-29.04	Peak	VERTICAL
4	1924.00	55.77	27.90	3.51	43.30	74.00	-30.70	Peak	VERTICAL
5	2226.00	55.89	28.35	3.77	44.18	74.00	-29.82	Peak	VERTICAL
6	2700.00	55.61	28.96	3.91	44.79	74.00	-29.21	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

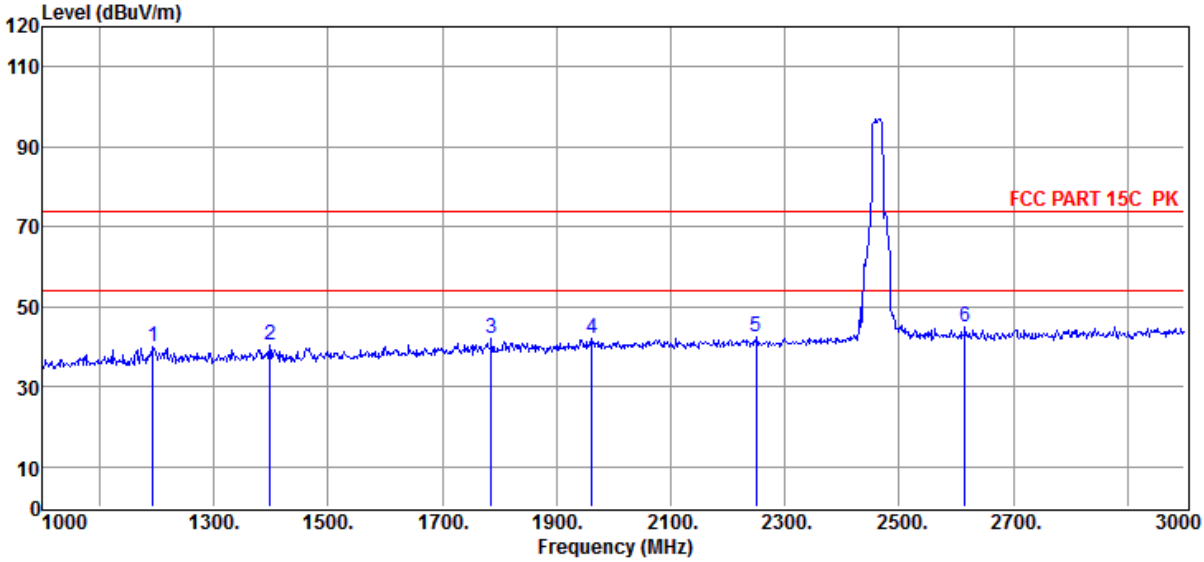
Test Date : 11-29-2024 **Tested By** : Sunny

EUT : Portable Weather Station **Model Number** : SKY-100

Power Supply : by battery **Test Mode** : Tx mode

Memo : 11g 6M 2462MHz

Data: 43



Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	1194.00	56.26	24.66	2.87	40.13	74.00	-33.87	Peak	HORIZONTAL
2	1398.00	55.92	25.35	3.02	40.57	74.00	-33.43	Peak	HORIZONTAL
3	1786.00	55.54	27.19	3.34	42.23	74.00	-31.77	Peak	HORIZONTAL
4	1962.00	54.11	28.10	3.65	41.97	74.00	-32.03	Peak	HORIZONTAL
5	2250.00	54.24	28.35	3.72	42.48	74.00	-31.52	Peak	HORIZONTAL
6	2616.00	55.96	28.72	3.93	44.89	74.00	-29.11	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

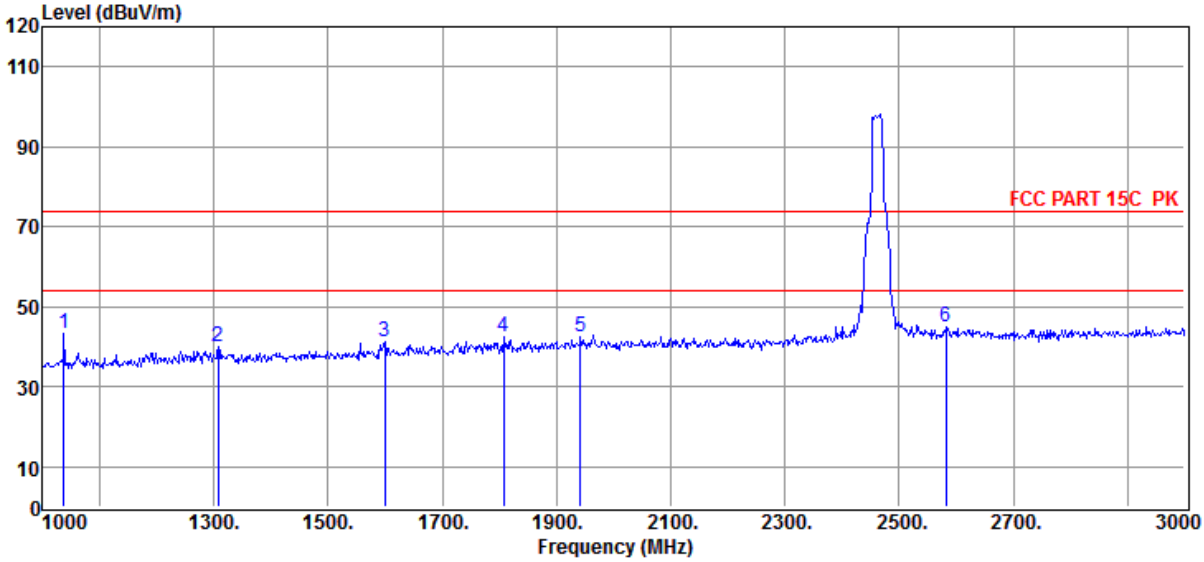
Test Date : 11-29-2024 **Tested By** : Sunny

EUT : Portable Weather Station **Model Number** : SKY-100

Power Supply : by battery **Test Mode** : Tx mode

Memo : 11g 6M 2462MHz

Data: 44



Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	1038.00	60.06	24.13	2.54	43.12	74.00	-30.88	Peak	VERTICAL
2	1308.00	55.47	25.05	2.99	39.82	74.00	-34.18	Peak	VERTICAL
3	1600.00	55.86	26.22	3.09	41.39	74.00	-32.61	Peak	VERTICAL
4	1808.00	55.56	27.30	3.37	42.39	74.00	-31.61	Peak	VERTICAL
5	1942.00	54.62	28.00	3.66	42.40	74.00	-31.60	Peak	VERTICAL
6	2582.00	56.16	28.63	3.90	44.96	74.00	-29.04	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

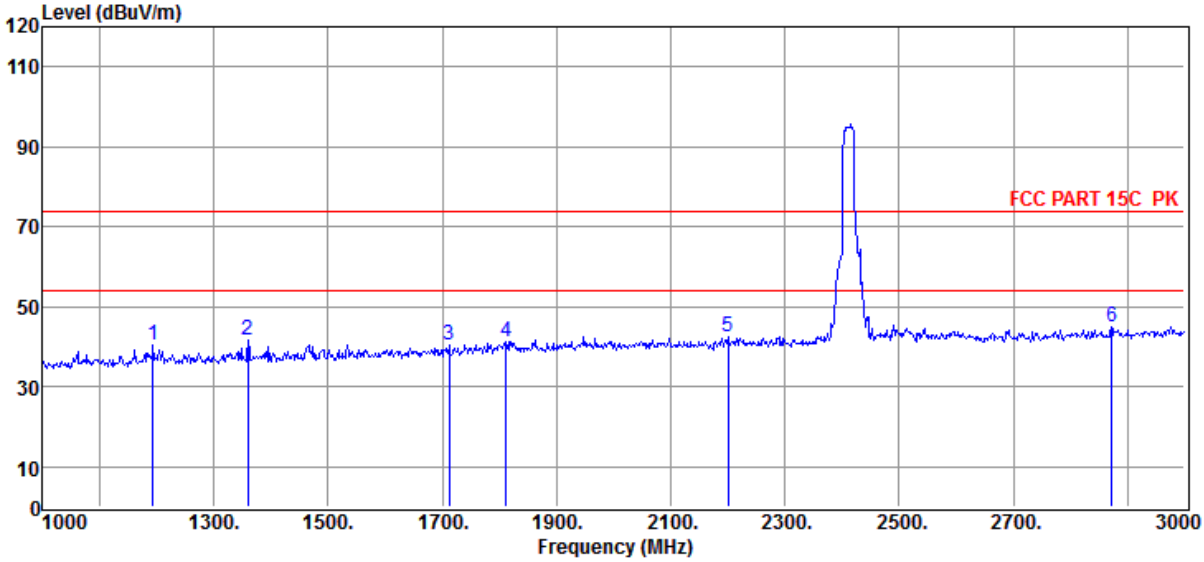
Test Date : 11-29-2024 **Tested By** : Sunny

EUT : Portable Weather Station **Model Number** : SKY-100

Power Supply : by battery **Test Mode** : Tx mode

Memo : 11n20 MCS0 2412MHz

Data: 45



Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	1194.00	56.37	24.66	2.87	40.24	74.00	-33.76	Peak	HORIZONTAL
2	1360.00	57.11	25.22	3.15	41.77	74.00	-32.23	Peak	HORIZONTAL
3	1712.00	54.05	26.80	3.20	40.24	74.00	-33.76	Peak	HORIZONTAL
4	1812.00	54.43	27.32	3.37	41.28	74.00	-32.72	Peak	HORIZONTAL
5	2200.00	54.22	28.34	3.83	42.55	74.00	-31.45	Peak	HORIZONTAL
6	2872.00	55.19	29.44	4.07	45.06	74.00	-28.94	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

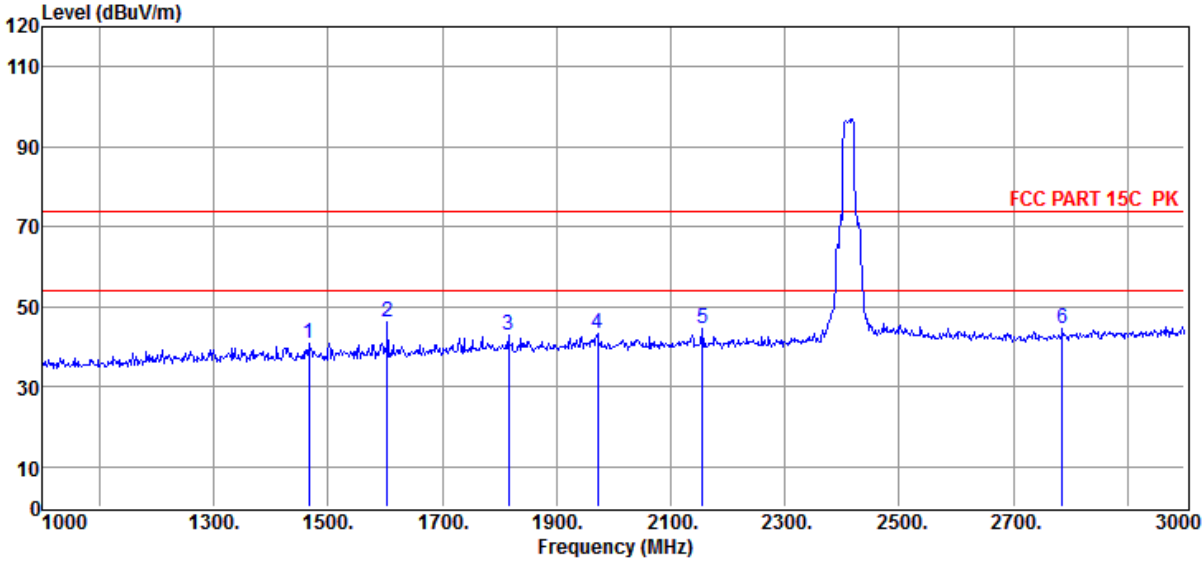
Test Date : 11-29-2024 **Tested By** : Sunny

EUT : Portable Weather Station **Model Number** : SKY-100

Power Supply : by battery **Test Mode** : Tx mode

Memo : 11n20 MCS0 2412MHz

Data: 46



Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	1466.00	55.83	25.58	3.10	40.77	74.00	-33.23	Peak	VERTICAL
2	1604.00	60.73	26.24	3.10	46.29	74.00	-27.71	Peak	VERTICAL
3	1816.00	55.93	27.34	3.37	42.80	74.00	-31.20	Peak	VERTICAL
4	1972.00	55.44	28.15	3.59	43.29	74.00	-30.71	Peak	VERTICAL
5	2156.00	56.36	28.33	3.54	44.38	74.00	-29.62	Peak	VERTICAL
6	2786.00	54.81	29.20	4.08	44.43	74.00	-29.57	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

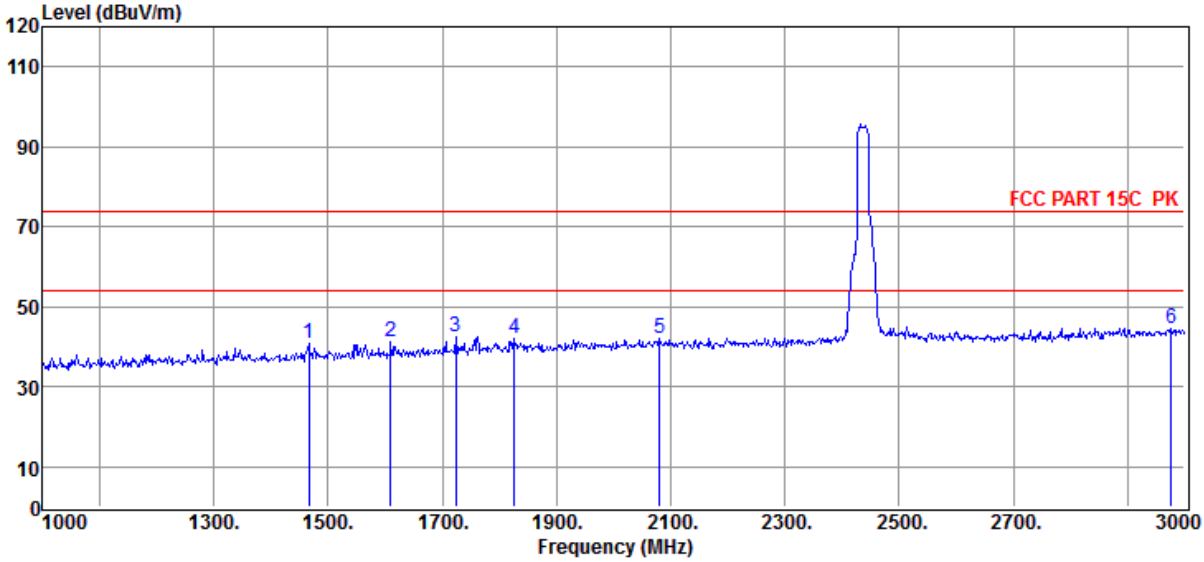
Test Date : 11-29-2024 **Tested By** : Sunny

EUT : Portable Weather Station **Model Number** : SKY-100

Power Supply : by battery **Test Mode** : Tx mode

Memo : 11n20 MCS0 2437MHz

Data: 47



Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	1466.00	55.70	25.58	3.10	40.64	74.00	-33.36	Peak	HORIZONTAL
2	1610.00	55.84	26.27	3.11	41.44	74.00	-32.56	Peak	HORIZONTAL
3	1724.00	56.13	26.86	3.22	42.39	74.00	-31.61	Peak	HORIZONTAL
4	1826.00	55.22	27.40	3.36	42.13	74.00	-31.87	Peak	HORIZONTAL
5	2080.00	54.04	28.32	3.62	42.10	74.00	-31.90	Peak	HORIZONTAL
6	2976.00	54.34	29.73	4.24	44.70	74.00	-29.30	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

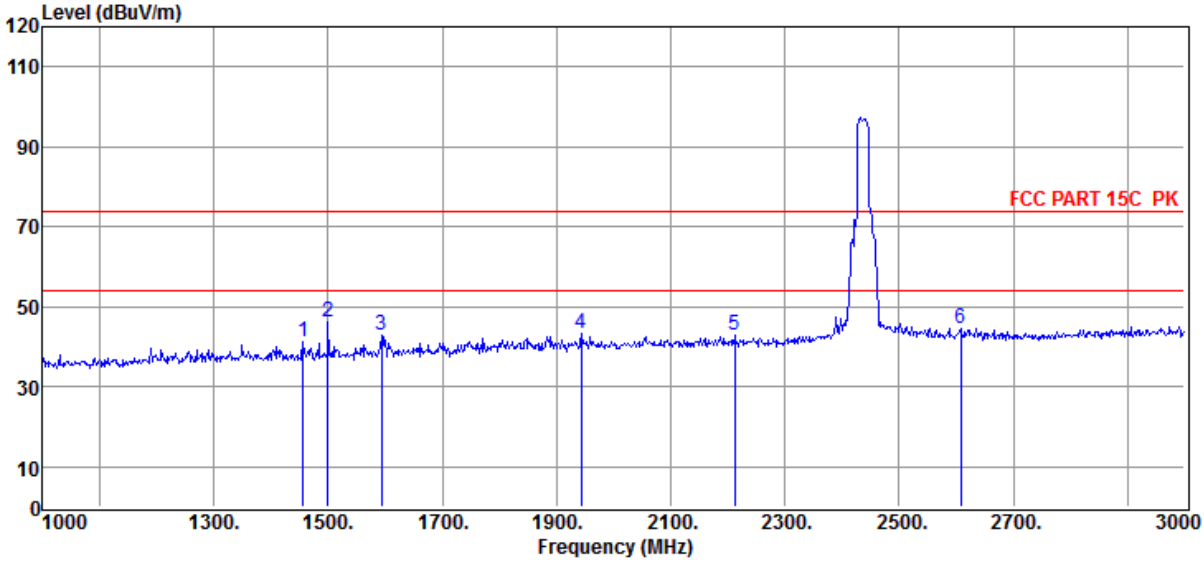
Test Date : 11-29-2024 **Tested By** : Sunny

EUT : Portable Weather Station **Model Number** : SKY-100

Power Supply : by battery **Test Mode** : Tx mode

Memo : 11n20 MCS0 2437MHz

Data: 48



Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	1456.00	56.55	25.55	3.06	41.42	74.00	-32.58	Peak	VERTICAL
2	1500.00	61.17	25.70	3.25	46.37	74.00	-27.63	Peak	VERTICAL
3	1594.00	57.27	26.19	3.09	42.77	74.00	-31.23	Peak	VERTICAL
4	1944.00	55.52	28.01	3.67	43.32	74.00	-30.68	Peak	VERTICAL
5	2212.00	54.69	28.34	3.80	42.99	74.00	-31.01	Peak	VERTICAL
6	2608.00	55.64	28.70	3.92	44.54	74.00	-29.46	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

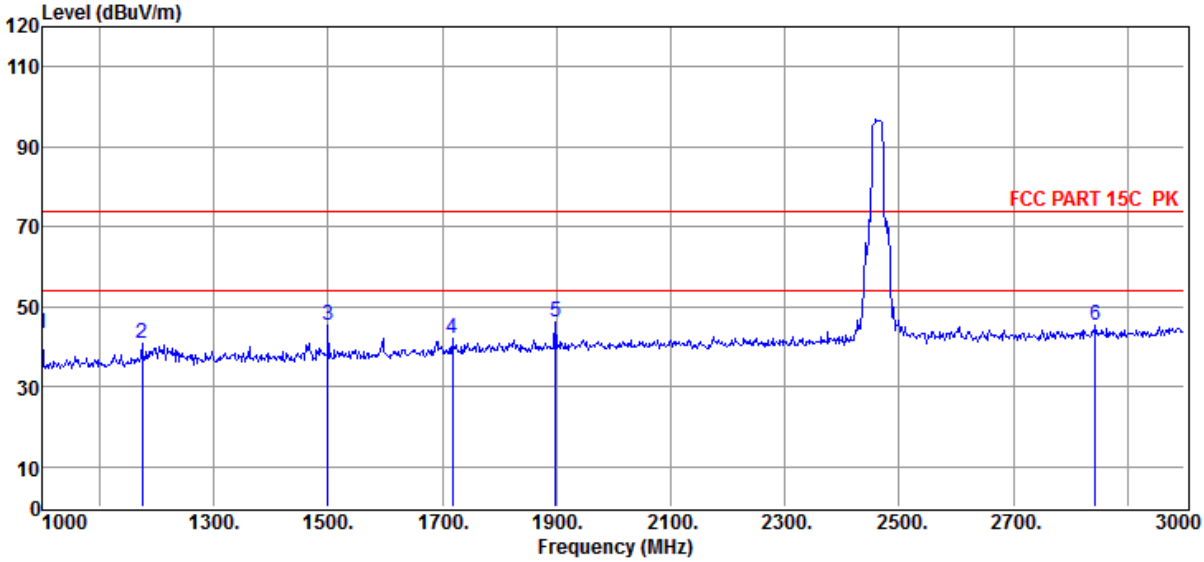
Test Date : 11-29-2024 **Tested By** : Sunny

EUT : Portable Weather Station **Model Number** : SKY-100

Power Supply : by battery **Test Mode** : Tx mode

Memo : 11n20 MCS0 2462MHz

Data: 49



Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	1000.00	60.36	24.00	2.49	43.25	74.00	-30.75	Peak	HORIZONTAL
2	1174.00	57.09	24.59	2.73	40.76	74.00	-33.24	Peak	HORIZONTAL
3	1500.00	60.36	25.70	3.25	45.56	74.00	-28.44	Peak	HORIZONTAL
4	1718.00	55.90	26.83	3.21	42.12	74.00	-31.88	Peak	HORIZONTAL
5	1898.00	58.97	27.77	3.32	46.19	74.00	-27.81	Peak	HORIZONTAL
6	2844.00	55.39	29.36	4.08	45.18	74.00	-28.82	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

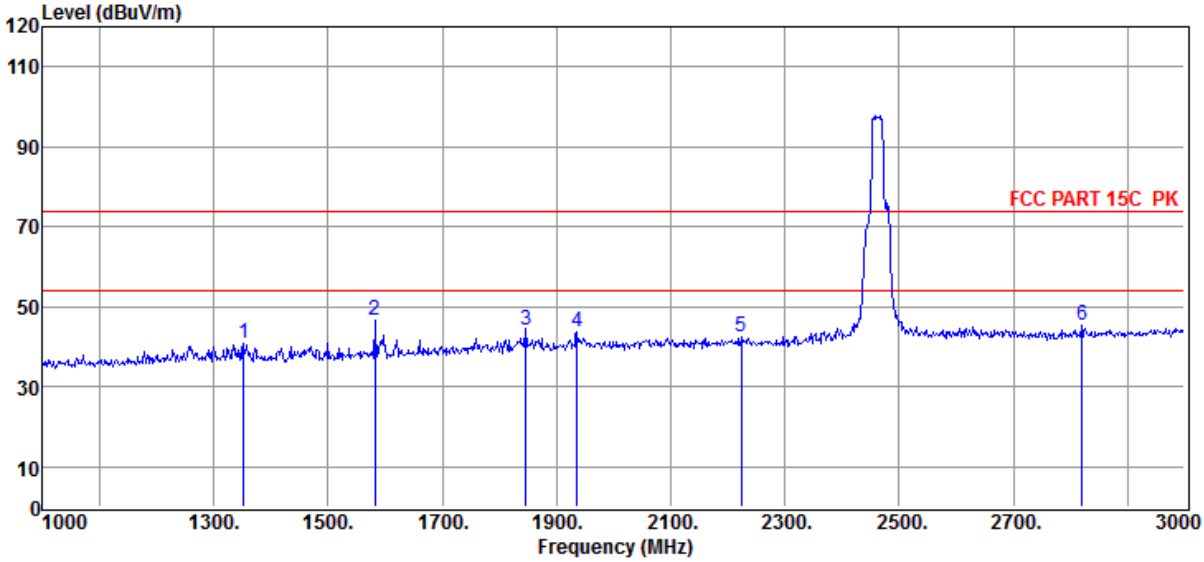
Test Date : 11-29-2024 **Tested By** : Sunny

EUT : Portable Weather Station **Model Number** : SKY-100

Power Supply : by battery **Test Mode** : Tx mode

Memo : 11n20 MCS0 2462MHz

Data: 50



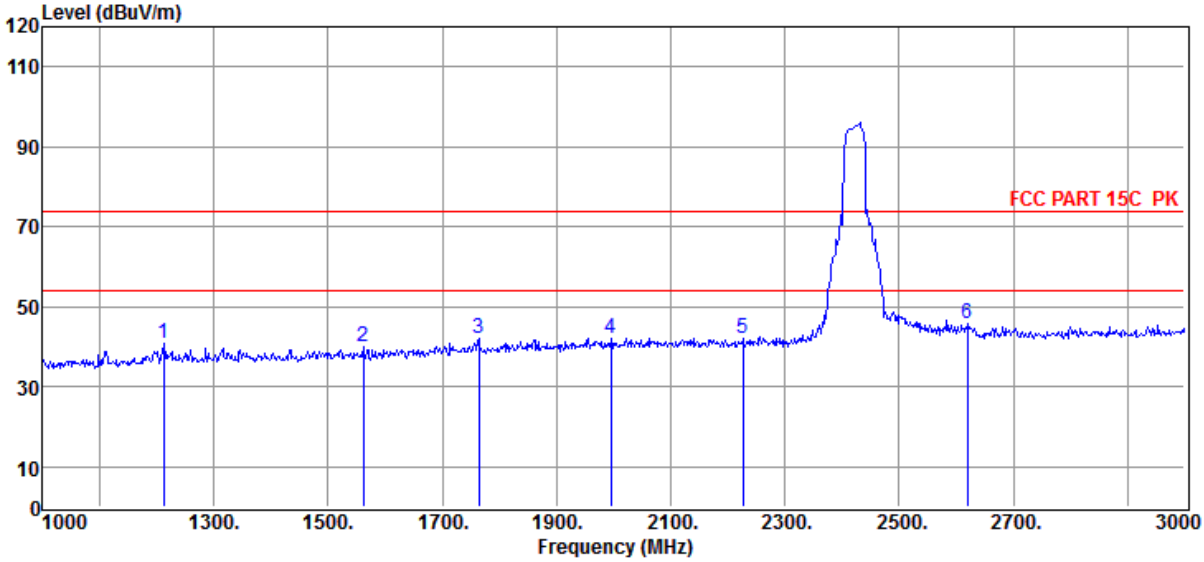
Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	1352.00	56.15	25.20	3.18	40.82	74.00	-33.18	Peak	VERTICAL
2	1582.00	61.12	26.13	3.08	46.56	74.00	-27.44	Peak	VERTICAL
3	1846.00	57.32	27.50	3.36	44.33	74.00	-29.67	Peak	VERTICAL
4	1936.00	56.14	27.97	3.61	43.84	74.00	-30.16	Peak	VERTICAL
5	2224.00	54.21	28.34	3.78	42.50	74.00	-31.50	Peak	VERTICAL
6	2820.00	55.80	29.30	4.10	45.55	74.00	-28.45	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site	: 10m Chamber		
Test Date	: 11-29-2024	**Tested By**	: Sunny
EUT	: Portable Weather Station	**Model Number**	: SKY-100
Power Supply	: by battery	**Test Mode**	: Tx mode
Memo	: 11n40 MCS0 2422MHz		

Data: 53



Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	1212.00	56.74	24.72	2.93	40.73	74.00	-33.27	Peak	HORIZONTAL
2	1562.00	54.67	26.02	3.07	39.99	74.00	-34.01	Peak	HORIZONTAL
3	1764.00	55.38	27.07	3.28	41.90	74.00	-32.10	Peak	HORIZONTAL
4	1996.00	54.30	28.28	3.45	42.13	74.00	-31.87	Peak	HORIZONTAL
5	2226.00	53.65	28.35	3.77	41.94	74.00	-32.06	Peak	HORIZONTAL
6	2620.00	57.00	28.74	3.93	45.96	74.00	-28.04	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

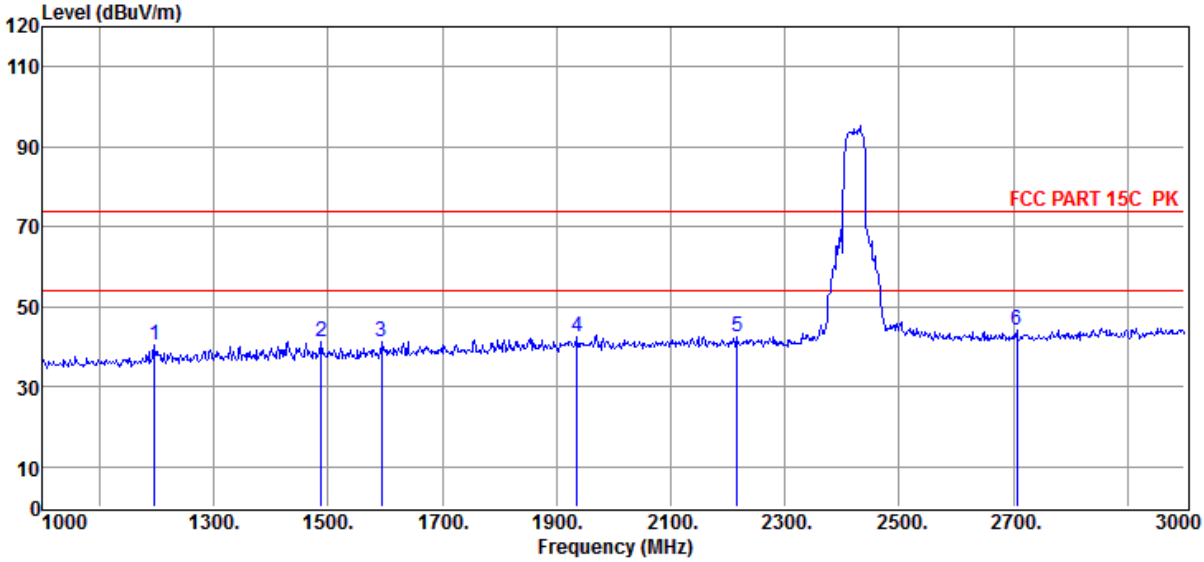
Test Date : 11-29-2024 **Tested By** : Sunny

EUT : Portable Weather Station **Model Number** : SKY-100

Power Supply : by battery **Test Mode** : Tx mode

Memo : 11n40 MCS0 2422MHz

Data: 54



Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	1196.00	56.51	24.67	2.88	40.40	74.00	-33.60	Peak	VERTICAL
2	1488.00	56.18	25.66	3.20	41.29	74.00	-32.71	Peak	VERTICAL
3	1594.00	55.87	26.19	3.09	41.37	74.00	-32.63	Peak	VERTICAL
4	1936.00	54.67	27.97	3.61	42.37	74.00	-31.63	Peak	VERTICAL
5	2216.00	54.29	28.34	3.79	42.58	74.00	-31.42	Peak	VERTICAL
6	2706.00	55.11	28.98	3.92	44.32	74.00	-29.68	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

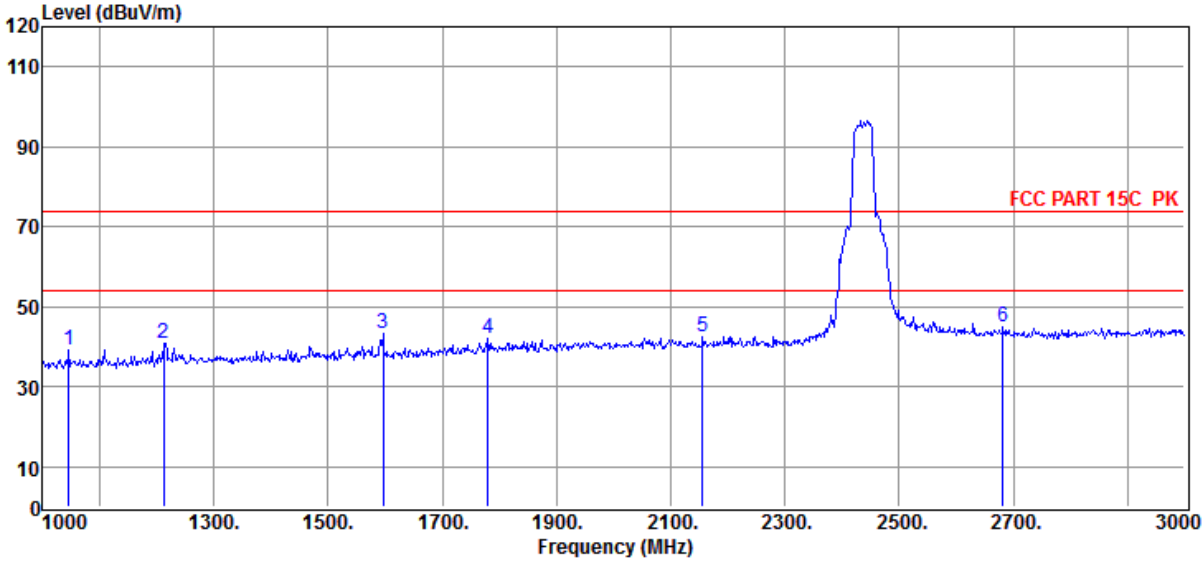
Test Date : 11-29-2024 **Tested By** : Sunny

EUT : Portable Weather Station **Model Number** : SKY-100

Power Supply : by battery **Test Mode** : Tx mode

Memo : 11n40 MCS0 2437MHz

Data: 55



Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	1046.00	56.27	24.16	2.55	39.37	74.00	-34.63	Peak	HORIZONTAL
2	1212.00	57.03	24.72	2.93	41.02	74.00	-32.98	Peak	HORIZONTAL
3	1596.00	57.97	26.20	3.09	43.48	74.00	-30.52	Peak	HORIZONTAL
4	1780.00	55.41	27.16	3.32	42.06	74.00	-31.94	Peak	HORIZONTAL
5	2156.00	54.32	28.33	3.54	42.34	74.00	-31.66	Peak	HORIZONTAL
6	2682.00	55.90	28.91	3.93	45.04	74.00	-28.96	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

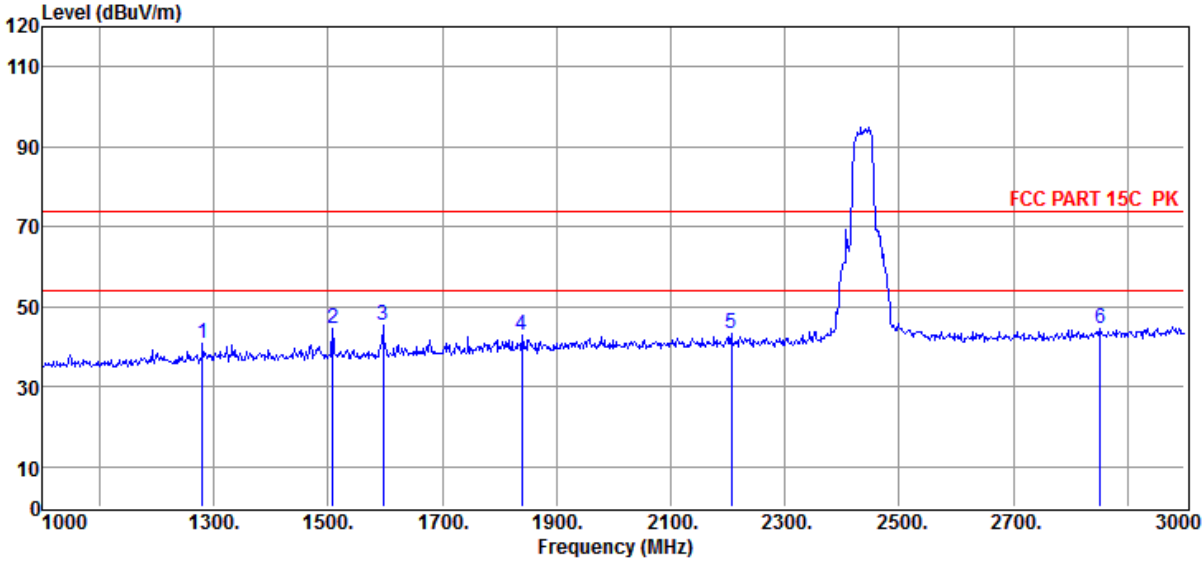
Test Date : 11-29-2024 **Tested By** : Sunny

EUT : Portable Weather Station **Model Number** : SKY-100

Power Supply : by battery **Test Mode** : Tx mode

Memo : 11n40 MCS0 2437MHz

Data: 56



Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	1280.00	56.66	24.95	2.97	40.90	74.00	-33.10	Peak	VERTICAL
2	1508.00	59.40	25.74	3.22	44.61	74.00	-29.39	Peak	VERTICAL
3	1596.00	59.97	26.20	3.09	45.48	74.00	-28.52	Peak	VERTICAL
4	1840.00	55.80	27.47	3.36	42.78	74.00	-31.22	Peak	VERTICAL
5	2206.00	55.03	28.34	3.82	43.35	74.00	-30.65	Peak	VERTICAL
6	2852.00	54.87	29.39	4.07	44.69	74.00	-29.31	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

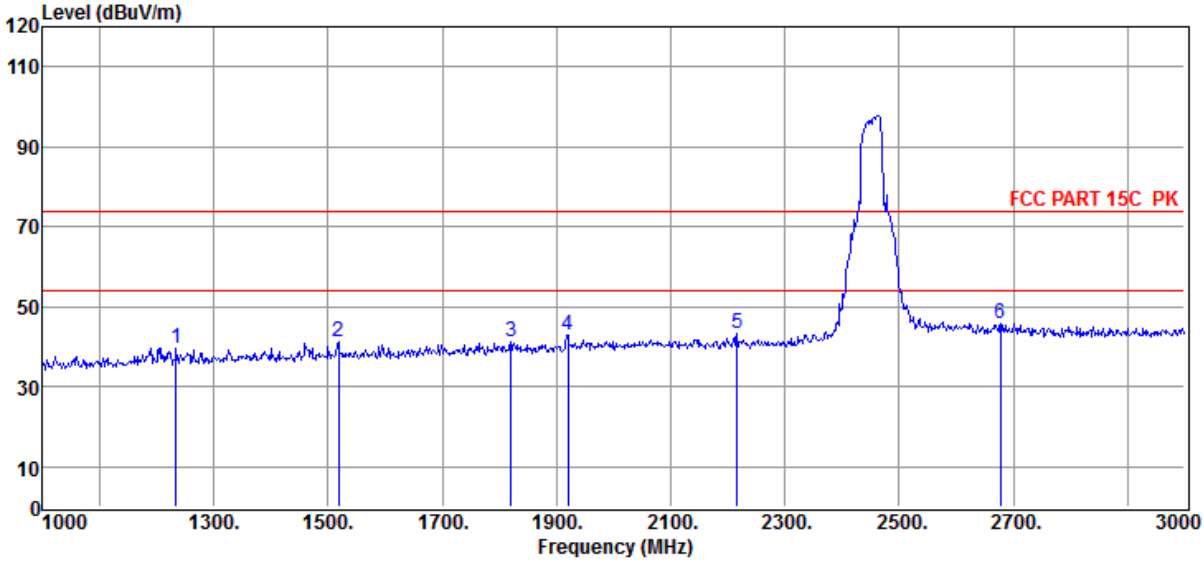
Test Date : 11-29-2024 **Tested By** : Sunny

EUT : Portable Weather Station **Model Number** : SKY-100

Power Supply : by battery **Test Mode** : Tx mode

Memo : 11n40 MCS0 2452MHz

Data: 57



Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	1234.00	55.62	24.80	2.96	39.71	74.00	-34.29	Peak	HORIZONTAL
2	1518.00	56.19	25.79	3.18	41.40	74.00	-32.60	Peak	HORIZONTAL
3	1820.00	54.29	27.36	3.37	41.17	74.00	-32.83	Peak	HORIZONTAL
4	1920.00	55.51	27.88	3.48	42.99	74.00	-31.01	Peak	HORIZONTAL
5	2216.00	55.04	28.34	3.79	43.33	74.00	-30.67	Peak	HORIZONTAL
6	2678.00	56.57	28.90	3.93	45.70	74.00	-28.30	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

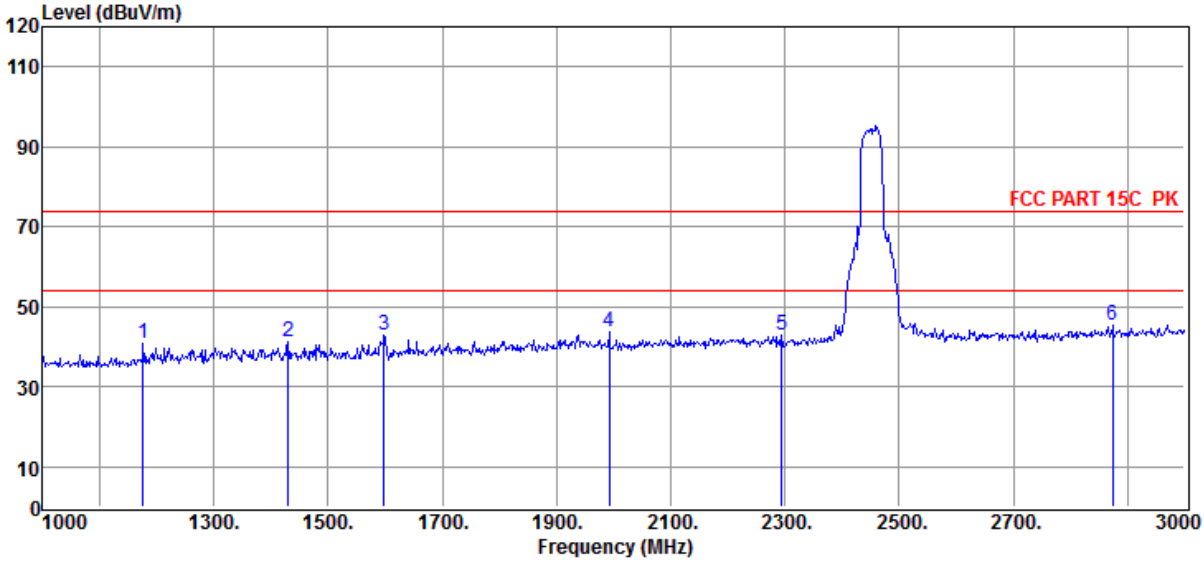
Test Date : 11-29-2024 **Tested By** : Sunny

EUT : Portable Weather Station **Model Number** : SKY-100

Power Supply : by battery **Test Mode** : Tx mode

Memo : 11n40 MCS0 2452MHz

Data: 58



Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	1176.00	56.97	24.60	2.75	40.67	74.00	-33.33	Peak	VERTICAL
2	1430.00	56.41	25.46	3.02	41.16	74.00	-32.84	Peak	VERTICAL
3	1598.00	57.24	26.21	3.09	42.76	74.00	-31.24	Peak	VERTICAL
4	1992.00	55.99	28.26	3.48	43.83	74.00	-30.17	Peak	VERTICAL
5	2294.00	54.62	28.36	3.64	42.81	74.00	-31.19	Peak	VERTICAL
6	2874.00	55.40	29.45	4.07	45.28	74.00	-28.72	Peak	VERTICAL

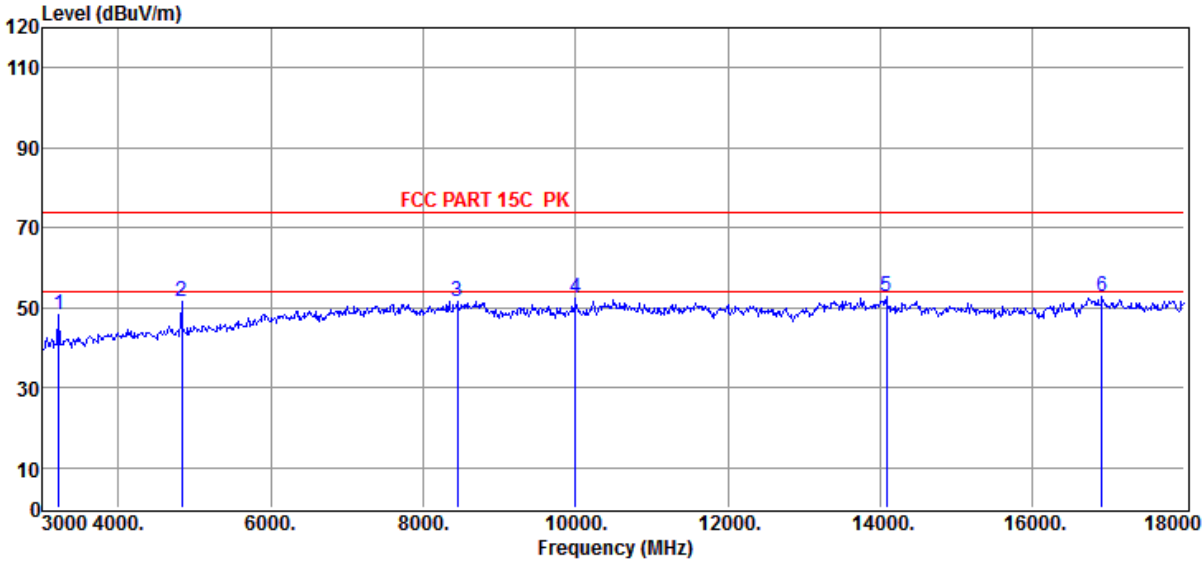
Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Margin = Result Level - Limit.

Radiated Emission test (3GHz -18GHz)

Radiated Emission Test Result

Test Site	: 10m Chamber		
Test Date	: 11-29-2024	**Tested By**	: Sunny
EUT	: Portable Weather Station	**Model Number**	: SKY-100
Power Supply	: by battery	**Test Mode**	: Tx mode
Memo	: 11b 1M 2412MHz		

Data: 65



Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	3210.00	49.98	30.35	11.41	48.25	74.00	-25.75	Peak	HORIZONTAL
2	4830.00	48.69	33.29	12.17	51.47	74.00	-22.53	Peak	HORIZONTAL
3	8445.00	41.98	37.85	14.74	51.61	74.00	-22.39	Peak	HORIZONTAL
4	10005.00	40.19	38.80	16.19	52.38	74.00	-21.62	Peak	HORIZONTAL
5	14085.00	37.49	40.68	17.51	52.61	74.00	-21.39	Peak	HORIZONTAL
6	16920.00	34.23	42.14	19.04	52.81	74.00	-21.19	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

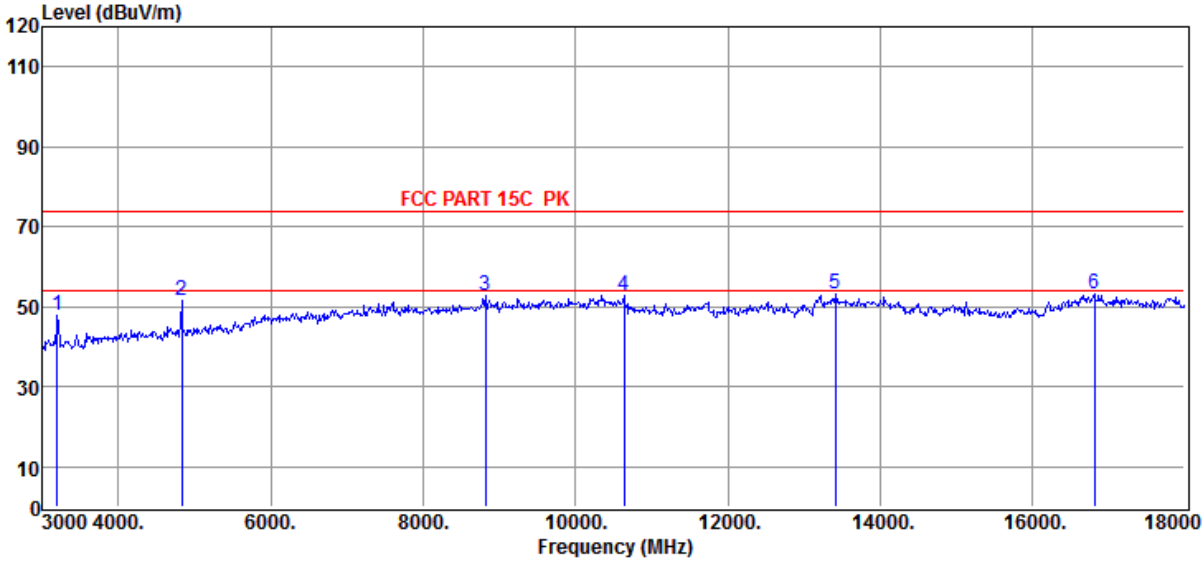
Test Date : 11-29-2024 **Tested By** : Sunny

EUT : Portable Weather Station **Model Number** : SKY-100

Power Supply : by battery **Test Mode** : Tx mode

Memo : 11b 1M 2412MHz

Data: 66



Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	3195.00	49.70	30.31	11.43	47.94	74.00	-26.06	Peak	VERTICAL
2	4830.00	48.97	33.29	12.17	51.75	74.00	-22.25	Peak	VERTICAL
3	8820.00	42.22	38.09	15.33	52.72	74.00	-21.28	Peak	VERTICAL
4	10635.00	39.50	38.97	17.19	52.86	74.00	-21.14	Peak	VERTICAL
5	13410.00	38.06	40.91	17.18	53.11	74.00	-20.89	Peak	VERTICAL
6	16815.00	34.53	41.81	19.63	53.37	74.00	-20.63	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

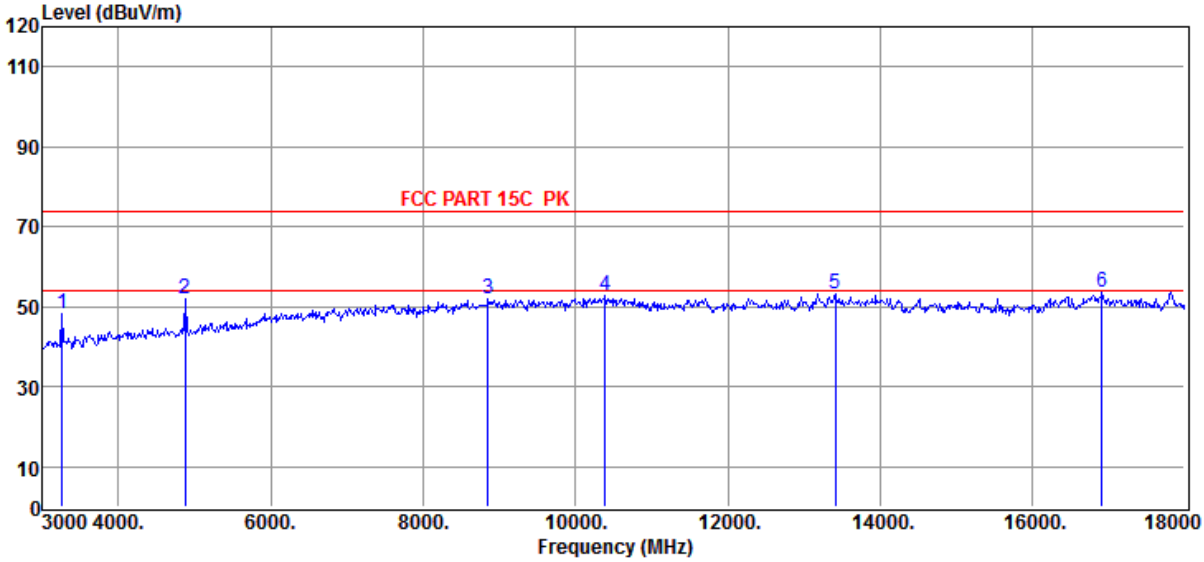
Test Date : 11-29-2024 **Tested By** : Sunny

EUT : Portable Weather Station **Model Number** : SKY-100

Power Supply : by battery **Test Mode** : Tx mode

Memo : 11b 1M 2437MHz

Data: 67



Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	3255.00	49.79	30.46	11.33	48.11	74.00	-25.89	Peak	HORIZONTAL
2	4875.00	48.85	33.38	12.28	51.85	74.00	-22.15	Peak	HORIZONTAL
3	8850.00	41.36	38.11	15.36	51.91	74.00	-22.09	Peak	HORIZONTAL
4	10395.00	39.37	38.96	17.30	52.83	74.00	-21.17	Peak	HORIZONTAL
5	13410.00	38.22	40.91	17.18	53.27	74.00	-20.73	Peak	HORIZONTAL
6	16920.00	35.03	42.14	19.04	53.61	74.00	-20.39	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

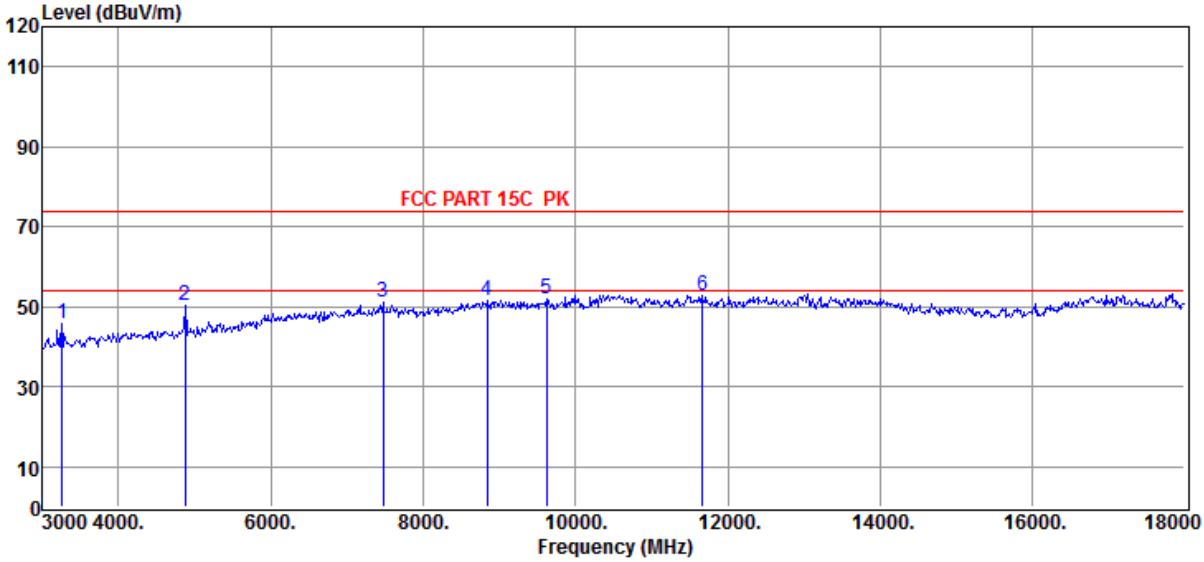
Test Date : 11-29-2024 **Tested By** : Sunny

EUT : Portable Weather Station **Model Number** : SKY-100

Power Supply : by battery **Test Mode** : Tx mode

Memo : 11b 1M 2437MHz

Data: 68



Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	3255.00	47.32	30.46	11.33	45.64	74.00	-28.36	Peak	VERTICAL
2	4875.00	47.11	33.38	12.28	50.11	74.00	-23.89	Peak	VERTICAL
3	7470.00	41.57	37.98	14.24	51.00	74.00	-23.00	Peak	VERTICAL
4	8835.00	40.91	38.10	15.35	51.44	74.00	-22.56	Peak	VERTICAL
5	9615.00	40.56	38.57	15.57	51.86	74.00	-22.14	Peak	VERTICAL
6	11670.00	39.45	38.77	17.32	52.81	74.00	-21.19	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

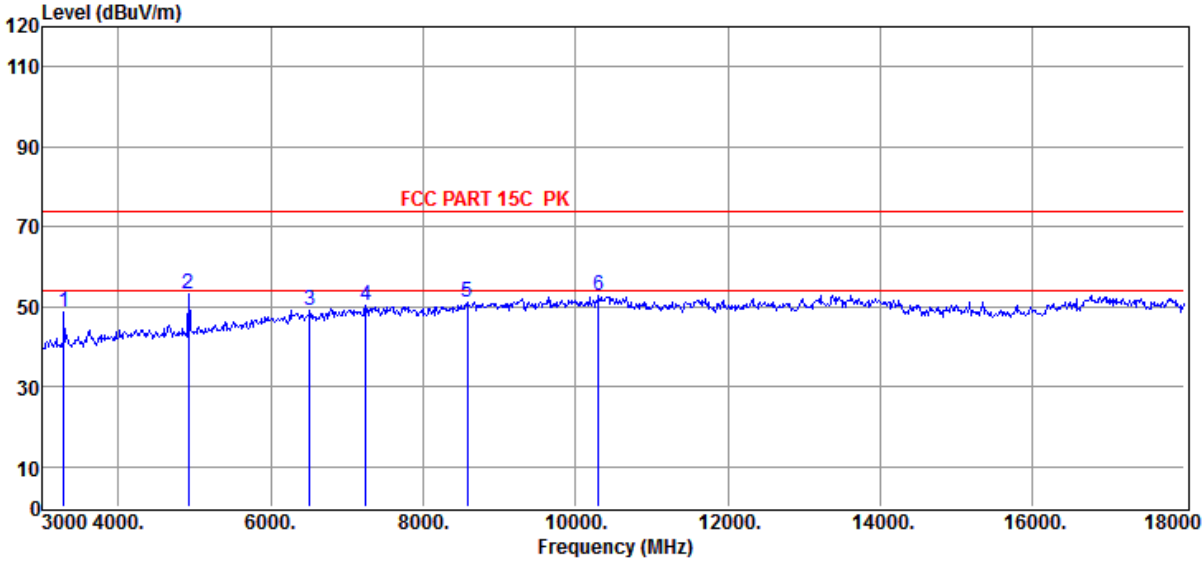
Test Date : 11-29-2024 **Tested By** : Sunny

EUT : Portable Weather Station **Model Number** : SKY-100

Power Supply : by battery **Test Mode** : Tx mode

Memo : 11b 1M 2462MHz

Data: 69



Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	3285.00	50.18	30.54	11.28	48.54	74.00	-25.46	Peak	HORIZONTAL
2	4920.00	49.92	33.46	12.38	53.12	74.00	-20.88	Peak	HORIZONTAL
3	6510.00	41.18	36.72	13.68	49.08	74.00	-24.92	Peak	HORIZONTAL
4	7245.00	41.33	37.80	14.04	50.47	74.00	-23.53	Peak	HORIZONTAL
5	8580.00	41.14	37.95	15.09	51.24	74.00	-22.76	Peak	HORIZONTAL
6	10305.00	39.99	38.92	16.66	52.77	74.00	-21.23	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

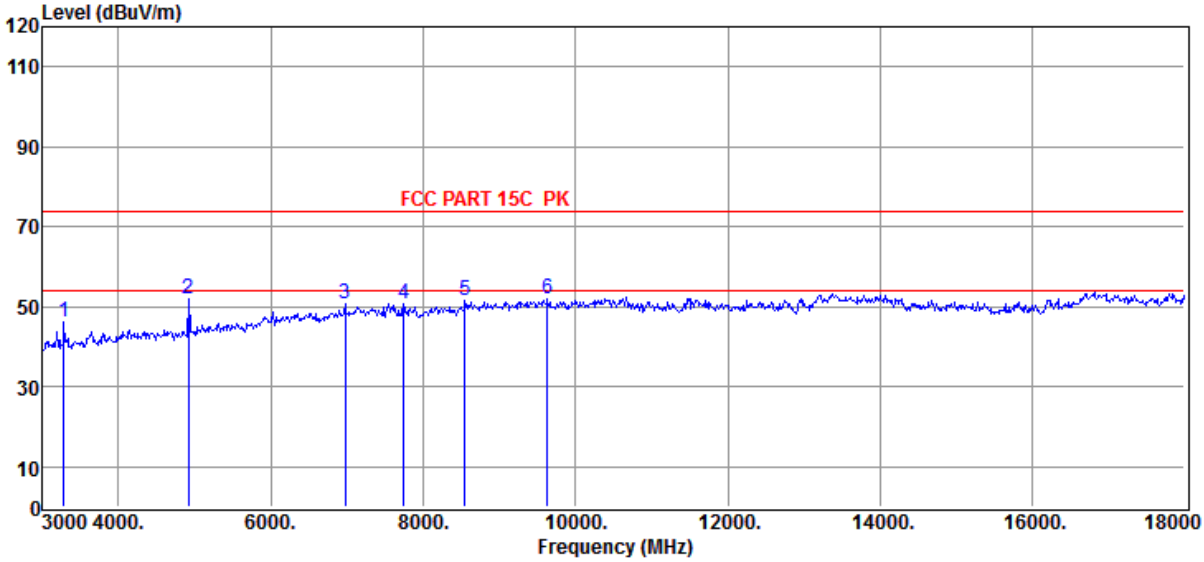
Test Date : 11-29-2024 **Tested By** : Sunny

EUT : Portable Weather Station **Model Number** : SKY-100

Power Supply : by battery **Test Mode** : Tx mode

Memo : 11b 1M 2462MHz

Data: 70



Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	3285.00	47.65	30.54	11.28	46.01	74.00	-27.99	Peak	VERTICAL
2	4920.00	48.93	33.46	12.38	52.13	74.00	-21.87	Peak	VERTICAL
3	6975.00	41.57	37.56	13.99	50.53	74.00	-23.47	Peak	VERTICAL
4	7740.00	41.53	37.71	14.47	50.81	74.00	-23.19	Peak	VERTICAL
5	8550.00	41.33	37.93	15.06	51.38	74.00	-22.62	Peak	VERTICAL
6	9630.00	40.49	38.58	15.57	51.80	74.00	-22.20	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

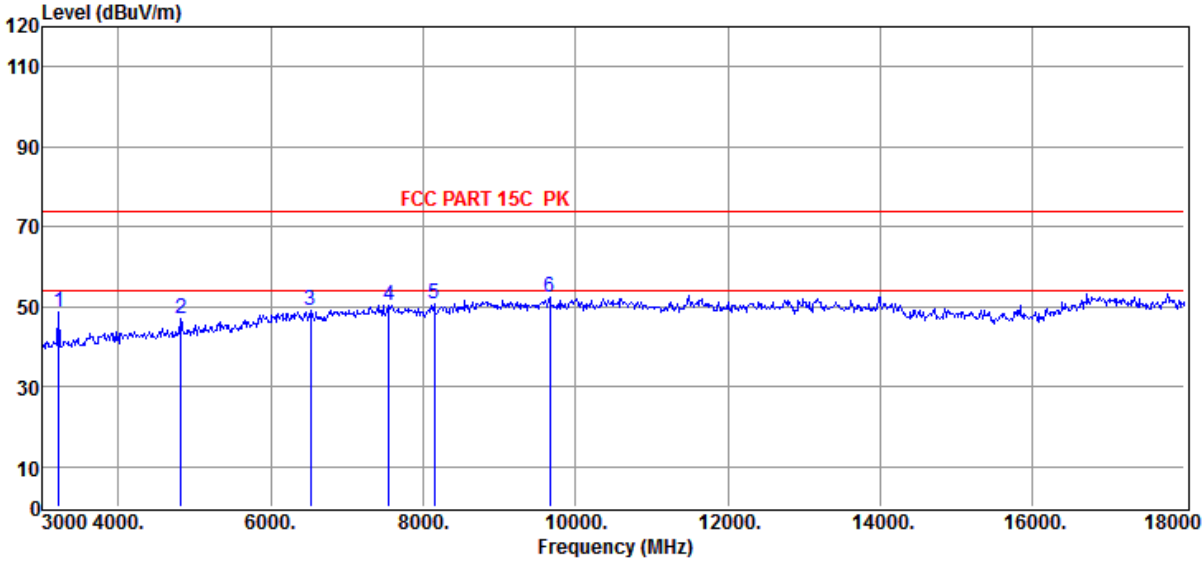
Test Date : 11-29-2024 **Tested By** : Sunny

EUT : Portable Weather Station **Model Number** : SKY-100

Power Supply : by battery **Test Mode** : Tx mode

Memo : 11g 6M 2412MHz

Data: 71



Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	3210.00	50.22	30.35	11.41	48.49	74.00	-25.51	Peak	HORIZONTAL
2	4815.00	44.21	33.27	12.13	46.92	74.00	-27.08	Peak	HORIZONTAL
3	6525.00	41.24	36.74	13.66	49.13	74.00	-24.87	Peak	HORIZONTAL
4	7545.00	40.72	37.95	14.53	50.38	74.00	-23.62	Peak	HORIZONTAL
5	8145.00	41.60	37.55	14.71	50.87	74.00	-23.13	Peak	HORIZONTAL
6	9660.00	41.10	38.60	15.58	52.45	74.00	-21.55	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

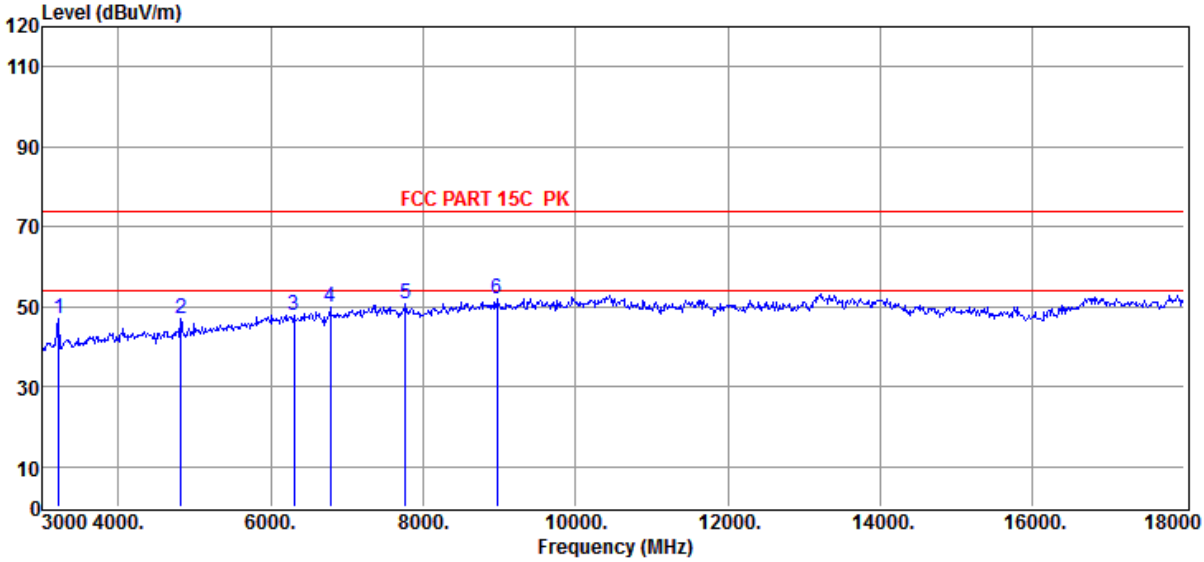
Test Date : 11-29-2024 **Tested By** : Sunny

EUT : Portable Weather Station **Model Number** : SKY-100

Power Supply : by battery **Test Mode** : Tx mode

Memo : 11g 6M 2412MHz

Data: 72



Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	3210.00	48.71	30.35	11.41	46.98	74.00	-27.02	Peak	VERTICAL
2	4815.00	44.45	33.27	12.13	47.16	74.00	-26.84	Peak	VERTICAL
3	6300.00	40.39	36.46	13.52	47.91	74.00	-26.09	Peak	VERTICAL
4	6780.00	41.09	37.20	14.21	49.94	74.00	-24.06	Peak	VERTICAL
5	7770.00	41.07	37.68	14.75	50.59	74.00	-23.41	Peak	VERTICAL
6	8970.00	41.55	38.18	14.94	51.77	74.00	-22.23	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

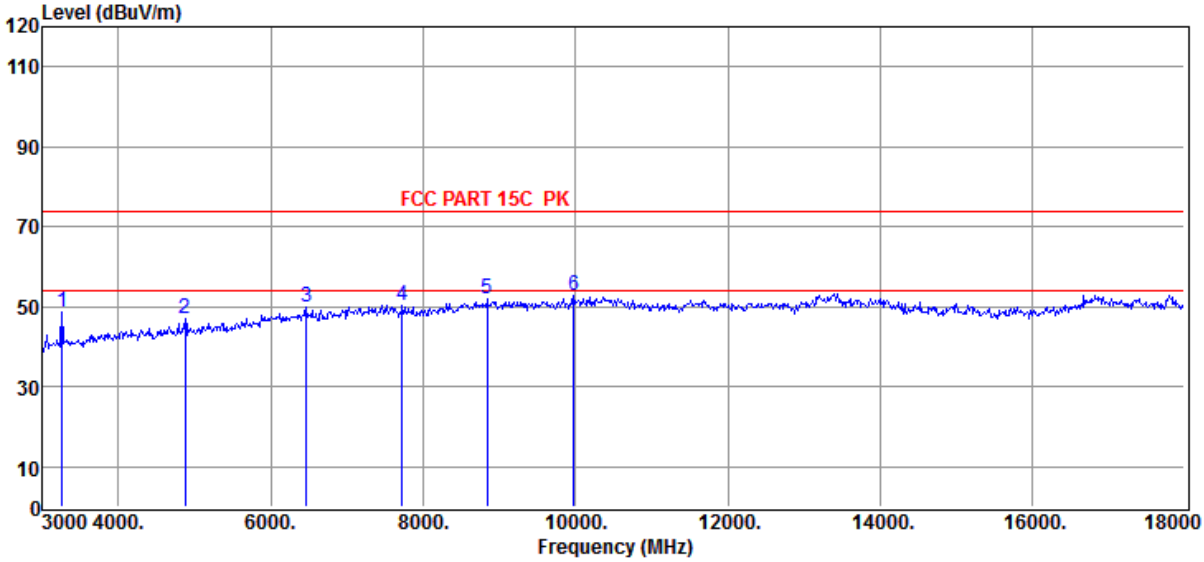
Test Date : 11-29-2024 **Tested By** : Sunny

EUT : Portable Weather Station **Model Number** : SKY-100

Power Supply : by battery **Test Mode** : Tx mode

Memo : 11g 6M 2437MHz

Data: 73



Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	3255.00	50.33	30.46	11.33	48.65	74.00	-25.35	Peak	HORIZONTAL
2	4875.00	44.21	33.38	12.28	47.21	74.00	-26.79	Peak	HORIZONTAL
3	6465.00	41.86	36.66	13.68	49.71	74.00	-24.29	Peak	HORIZONTAL
4	7725.00	41.27	37.73	14.33	50.44	74.00	-23.56	Peak	HORIZONTAL
5	8835.00	41.44	38.10	15.35	51.97	74.00	-22.03	Peak	HORIZONTAL
6	9975.00	40.55	38.78	16.17	52.70	74.00	-21.30	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

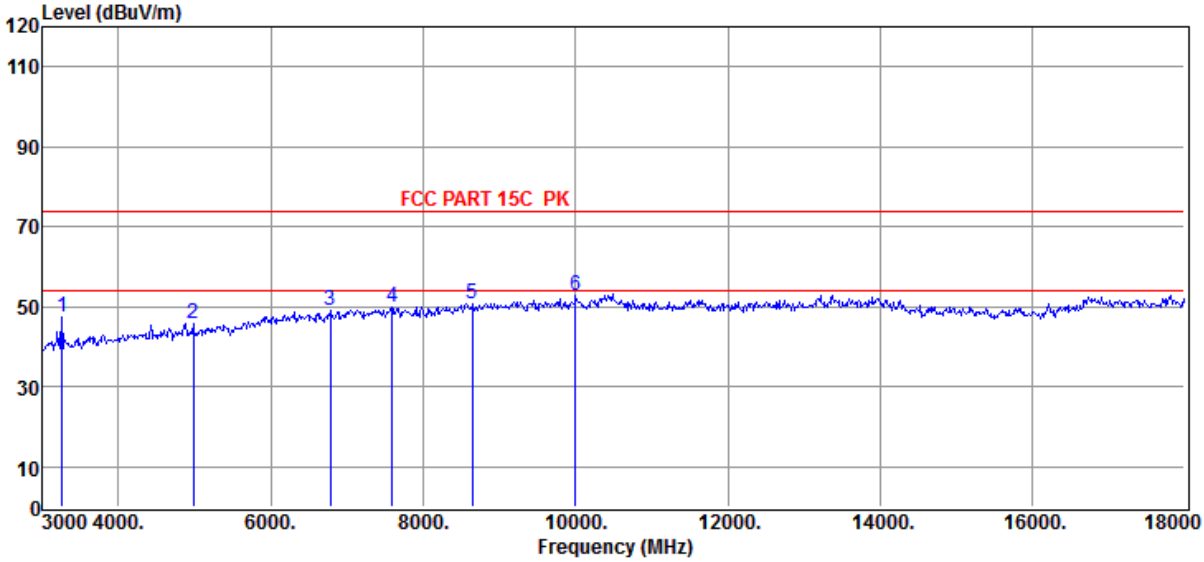
Test Date : 11-29-2024 **Tested By** : Sunny

EUT : Portable Weather Station **Model Number** : SKY-100

Power Supply : by battery **Test Mode** : Tx mode

Memo : 11g 6M 2437MHz

Data: 74



Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	3255.00	48.96	30.46	11.33	47.28	74.00	-26.72	Peak	VERTICAL
2	4980.00	42.51	33.56	12.45	45.91	74.00	-28.09	Peak	VERTICAL
3	6780.00	40.20	37.20	14.21	49.05	74.00	-24.95	Peak	VERTICAL
4	7590.00	39.90	37.89	14.78	49.73	74.00	-24.27	Peak	VERTICAL
5	8640.00	40.86	37.98	14.99	50.89	74.00	-23.11	Peak	VERTICAL
6	10005.00	40.72	38.80	16.19	52.91	74.00	-21.09	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

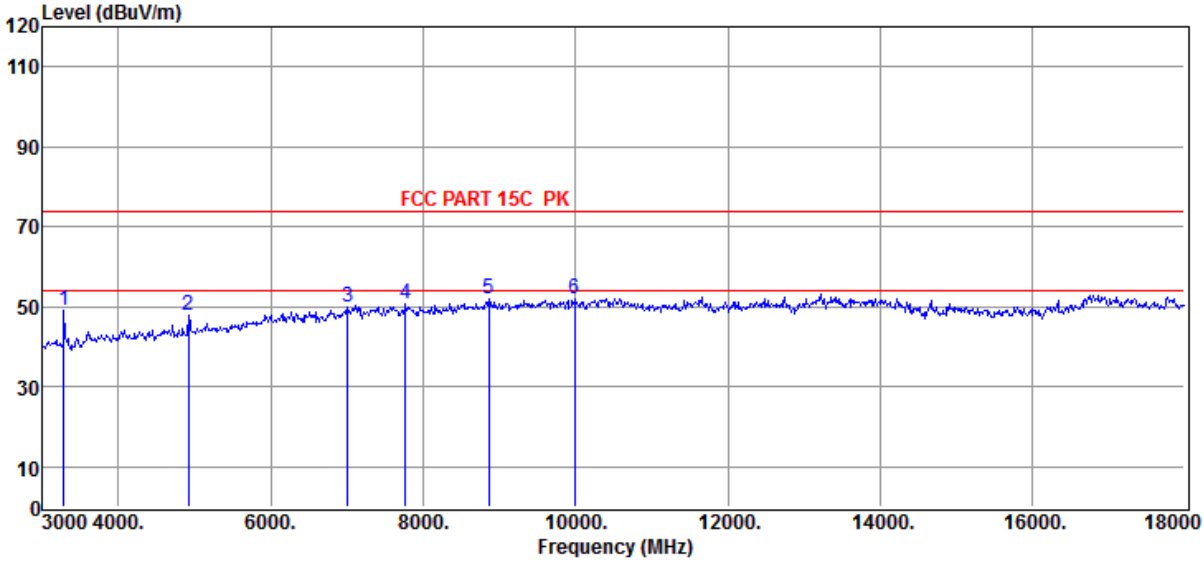
Test Date : 11-29-2024 **Tested By** : Sunny

EUT : Portable Weather Station **Model Number** : SKY-100

Power Supply : by battery **Test Mode** : Tx mode

Memo : 11g 6M 2462MHz

Data: 75



Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	3285.00	50.79	30.54	11.28	49.15	74.00	-24.85	Peak	HORIZONTAL
2	4920.00	44.75	33.46	12.38	47.95	74.00	-26.05	Peak	HORIZONTAL
3	7005.00	40.64	37.60	14.07	49.71	74.00	-24.29	Peak	HORIZONTAL
4	7770.00	41.02	37.68	14.75	50.54	74.00	-23.46	Peak	HORIZONTAL
5	8865.00	41.18	38.12	15.38	51.77	74.00	-22.23	Peak	HORIZONTAL
6	9990.00	39.92	38.79	16.19	52.10	74.00	-21.90	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

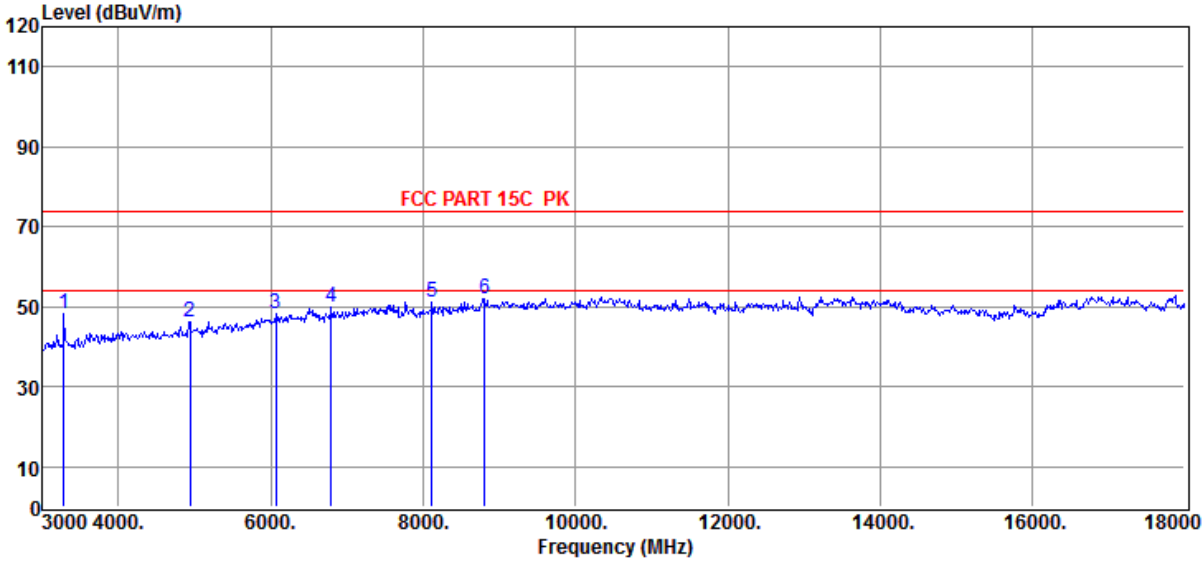
Test Date : 11-29-2024 **Tested By** : Sunny

EUT : Portable Weather Station **Model Number** : SKY-100

Power Supply : by battery **Test Mode** : Tx mode

Memo : 11g 6M 2462MHz

Data: 76



Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	3285.00	49.79	30.54	11.28	48.15	74.00	-25.85	Peak	VERTICAL
2	4935.00	43.06	33.48	12.40	46.31	74.00	-27.69	Peak	VERTICAL
3	6060.00	41.11	36.17	13.34	48.21	74.00	-25.79	Peak	VERTICAL
4	6795.00	40.71	37.23	14.33	49.71	74.00	-24.29	Peak	VERTICAL
5	8115.00	42.10	37.52	14.68	51.31	74.00	-22.69	Peak	VERTICAL
6	8805.00	41.41	38.08	15.32	51.89	74.00	-22.11	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

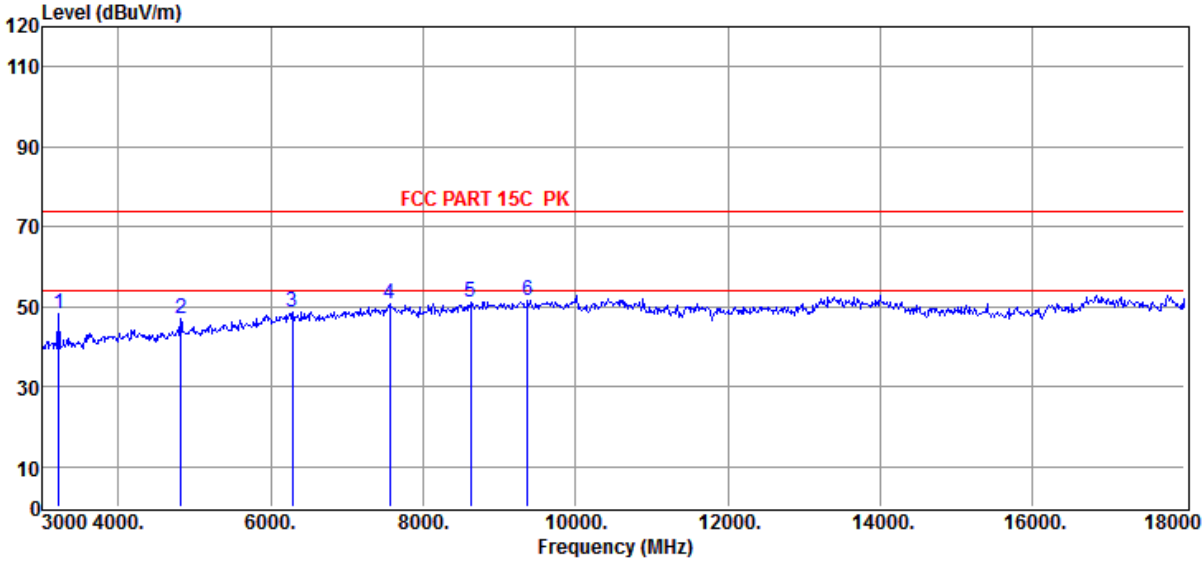
Test Date : 11-29-2024 **Tested By** : Sunny

EUT : Portable Weather Station **Model Number** : SKY-100

Power Supply : by battery **Test Mode** : Tx mode

Memo : 11n20 MCS0 2412MHz

Data: 77



Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	3210.00	50.06	30.35	11.41	48.33	74.00	-25.67	Peak	HORIZONTAL
2	4815.00	44.31	33.27	12.13	47.02	74.00	-26.98	Peak	HORIZONTAL
3	6285.00	41.14	36.44	13.48	48.60	74.00	-25.40	Peak	HORIZONTAL
4	7560.00	41.19	37.93	14.61	50.91	74.00	-23.09	Peak	HORIZONTAL
5	8625.00	41.15	37.98	15.04	51.23	74.00	-22.77	Peak	HORIZONTAL
6	9375.00	40.91	38.42	15.10	51.57	74.00	-22.43	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

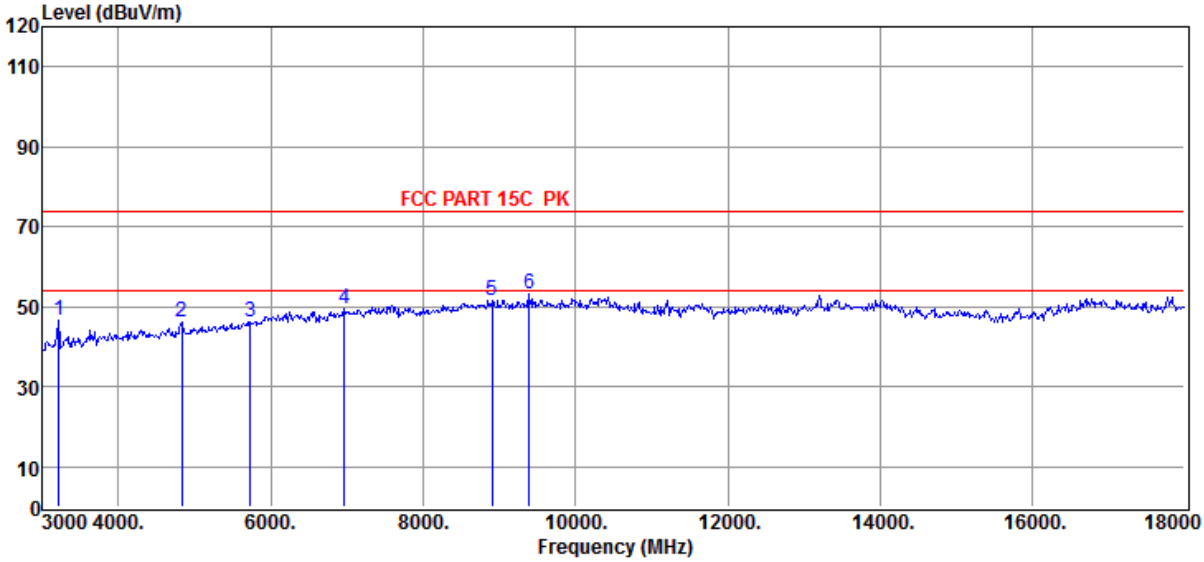
Test Date : 11-29-2024 **Tested By** : Sunny

EUT : Portable Weather Station **Model Number** : SKY-100

Power Supply : by battery **Test Mode** : Tx mode

Memo : 11n20 MCS0 2412MHz

Data: 78



Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	3210.00	48.23	30.35	11.41	46.50	74.00	-27.50	Peak	VERTICAL
2	4830.00	43.22	33.29	12.17	46.00	74.00	-28.00	Peak	VERTICAL
3	5730.00	40.42	35.29	12.84	46.10	74.00	-27.90	Peak	VERTICAL
4	6960.00	40.40	37.53	13.96	49.30	74.00	-24.70	Peak	VERTICAL
5	8910.00	41.13	38.15	15.35	51.72	74.00	-22.28	Peak	VERTICAL
6	9390.00	42.36	38.43	15.07	53.00	74.00	-21.00	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

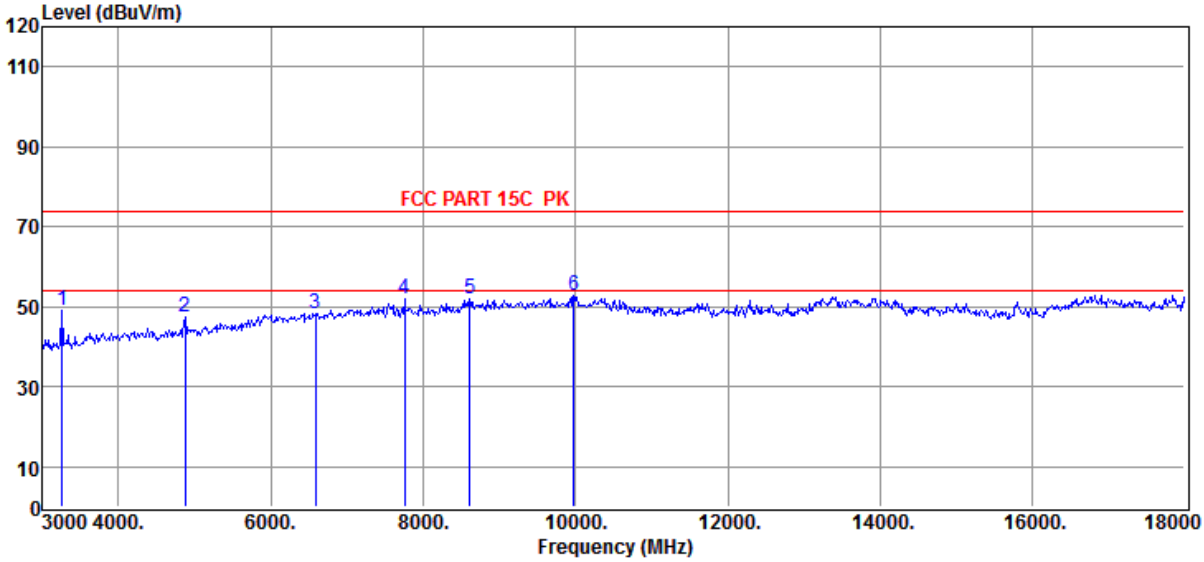
Test Date : 11-29-2024 **Tested By** : Sunny

EUT : Portable Weather Station **Model Number** : SKY-100

Power Supply : by battery **Test Mode** : Tx mode

Memo : 11n20 MCS0 2437MHz

Data: 79



Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	3255.00	50.83	30.46	11.33	49.15	74.00	-24.85	Peak	HORIZONTAL
2	4875.00	44.51	33.38	12.28	47.51	74.00	-26.49	Peak	HORIZONTAL
3	6585.00	40.47	36.85	13.57	48.37	74.00	-25.63	Peak	HORIZONTAL
4	7755.00	42.57	37.69	14.61	51.97	74.00	-22.03	Peak	HORIZONTAL
5	8610.00	41.66	37.97	15.08	51.77	74.00	-22.23	Peak	HORIZONTAL
6	9975.00	40.75	38.78	16.17	52.90	74.00	-21.10	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

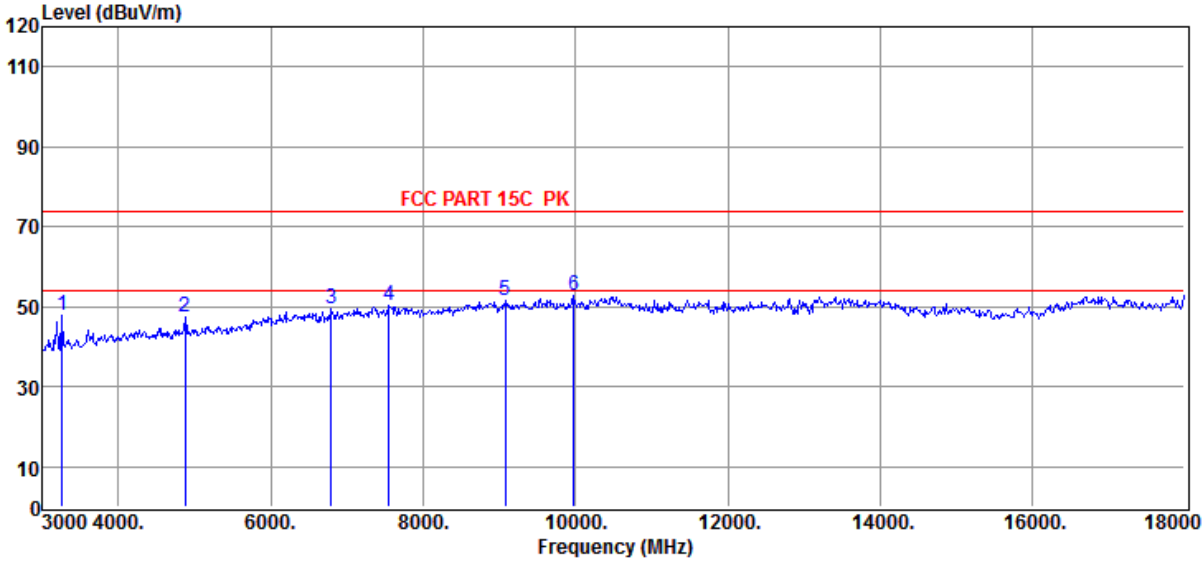
Test Date : 11-29-2024 **Tested By** : Sunny

EUT : Portable Weather Station **Model Number** : SKY-100

Power Supply : by battery **Test Mode** : Tx mode

Memo : 11n20 MCS0 2437MHz

Data: 80



Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	3255.00	49.68	30.46	11.33	48.00	74.00	-26.00	Peak	VERTICAL
2	4875.00	44.60	33.38	12.28	47.60	74.00	-26.40	Peak	VERTICAL
3	6795.00	40.35	37.23	14.33	49.35	74.00	-24.65	Peak	VERTICAL
4	7545.00	40.59	37.95	14.53	50.25	74.00	-23.75	Peak	VERTICAL
5	9075.00	41.40	38.24	14.98	51.73	74.00	-22.27	Peak	VERTICAL
6	9975.00	40.45	38.78	16.17	52.60	74.00	-21.40	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

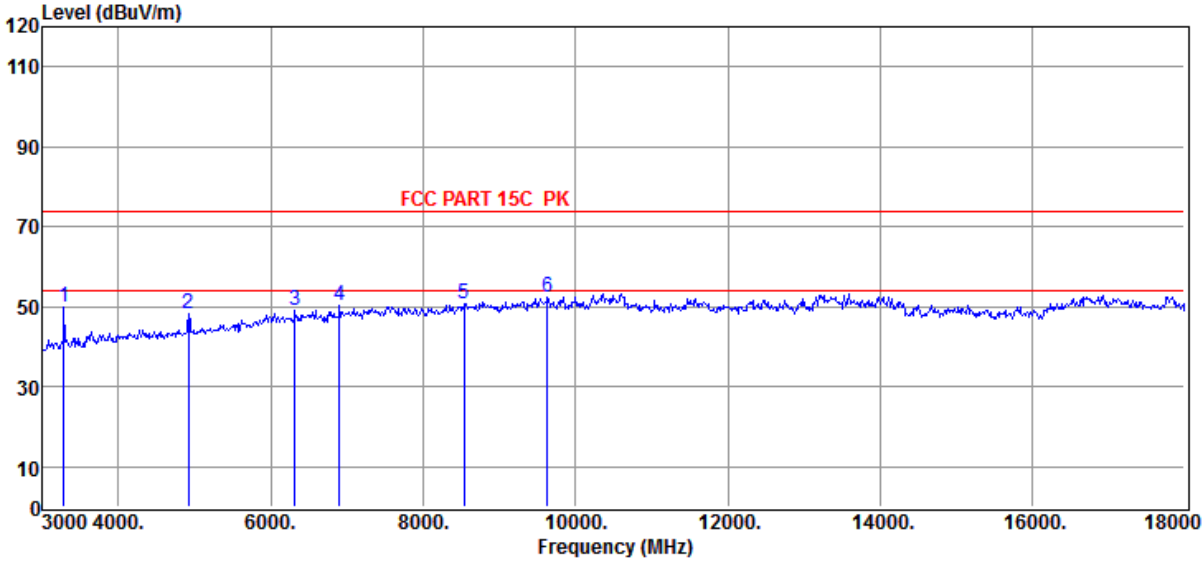
Test Date : 11-29-2024 **Tested By** : Sunny

EUT : Portable Weather Station **Model Number** : SKY-100

Power Supply : by battery **Test Mode** : Tx mode

Memo : 11n20 MCS0 2462MHz

Data: 81



Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	3285.00	51.57	30.54	11.28	49.93	74.00	-24.07	Peak	HORIZONTAL
2	4920.00	45.24	33.46	12.38	48.44	74.00	-25.56	Peak	HORIZONTAL
3	6315.00	41.71	36.48	13.54	49.27	74.00	-24.73	Peak	HORIZONTAL
4	6900.00	41.49	37.42	13.84	50.17	74.00	-23.83	Peak	HORIZONTAL
5	8535.00	40.57	37.92	15.05	50.59	74.00	-23.41	Peak	HORIZONTAL
6	9630.00	40.98	38.58	15.57	52.29	74.00	-21.71	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

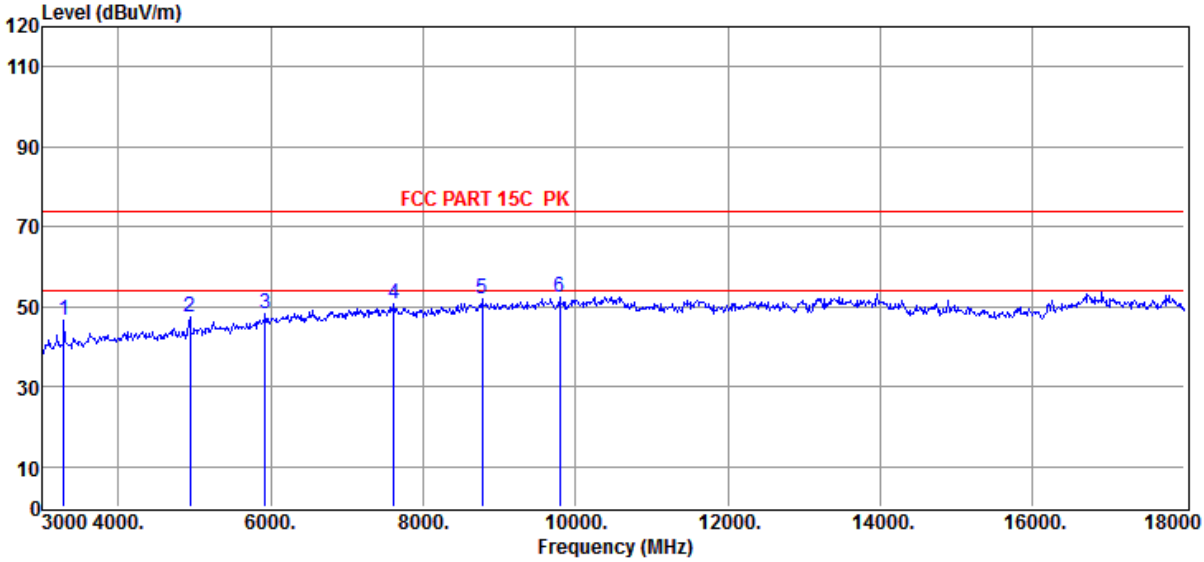
Test Date : 11-29-2024 **Tested By** : Sunny

EUT : Portable Weather Station **Model Number** : SKY-100

Power Supply : by battery **Test Mode** : Tx mode

Memo : 11n20 MCS0 2462MHz

Data: 82



Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	3285.00	48.19	30.54	11.28	46.55	74.00	-27.45	Peak	VERTICAL
2	4935.00	44.09	33.48	12.40	47.34	74.00	-26.66	Peak	VERTICAL
3	5925.00	41.12	35.88	13.52	48.10	74.00	-25.90	Peak	VERTICAL
4	7620.00	40.85	37.86	14.69	50.55	74.00	-23.45	Peak	VERTICAL
5	8775.00	41.48	38.07	15.19	51.82	74.00	-22.18	Peak	VERTICAL
6	9795.00	41.09	38.68	15.39	52.34	74.00	-21.66	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

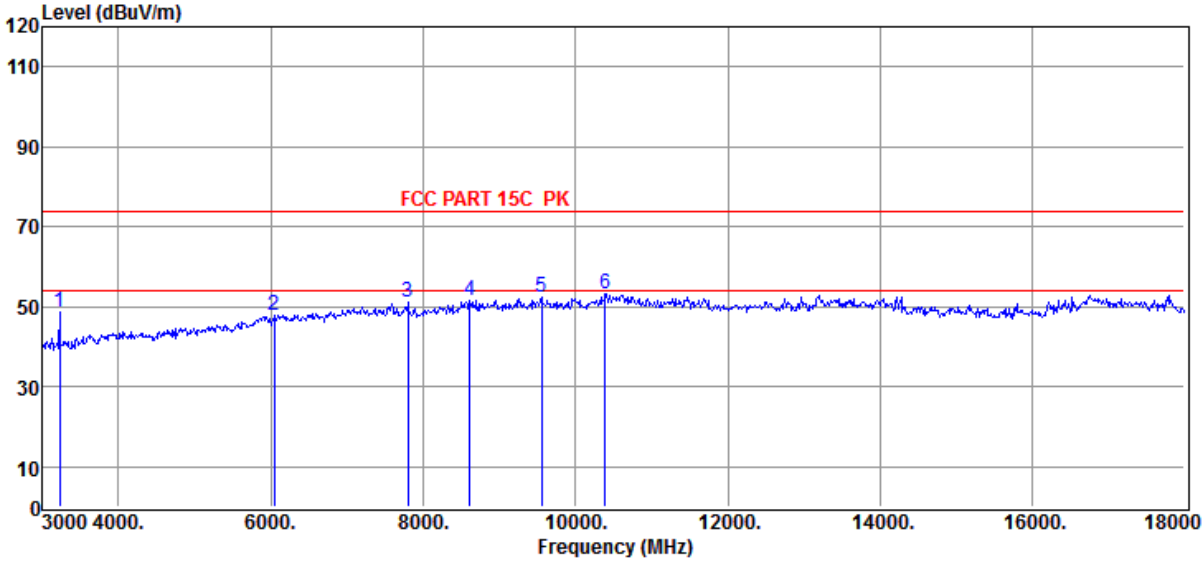
Test Date : 11-29-2024 **Tested By** : Sunny

EUT : Portable Weather Station **Model Number** : SKY-100

Power Supply : by battery **Test Mode** : Tx mode

Memo : 11n40 MCS0 2422MHz

Data: 83



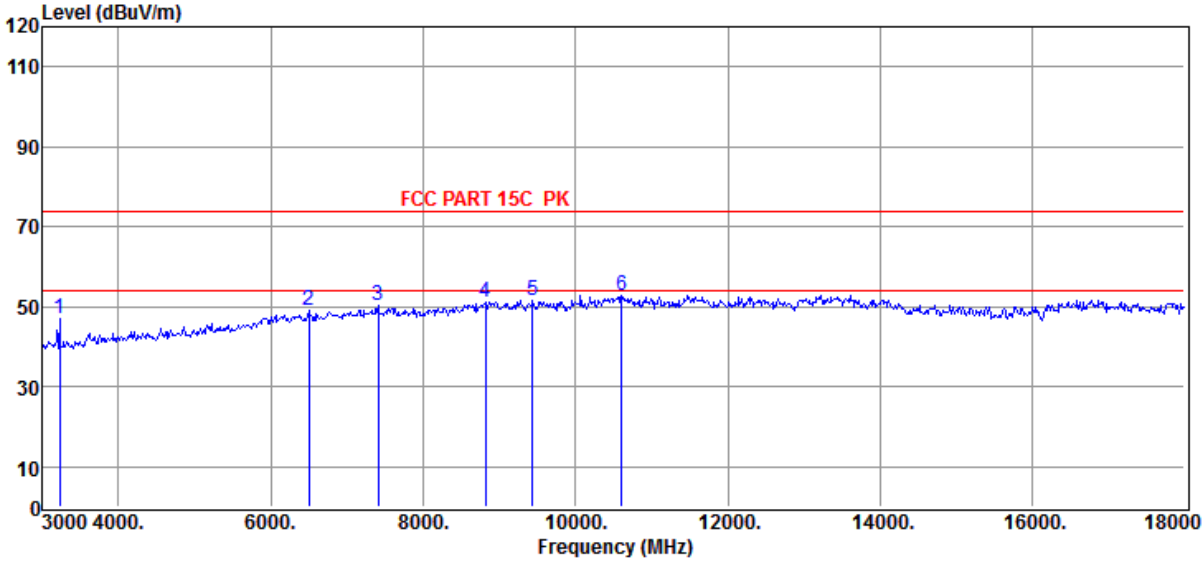
Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	3225.00	50.23	30.39	11.39	48.52	74.00	-25.48	Peak	HORIZONTAL
2	6045.00	40.93	36.15	13.33	48.00	74.00	-26.00	Peak	HORIZONTAL
3	7800.00	41.31	37.64	15.03	51.06	74.00	-22.94	Peak	HORIZONTAL
4	8610.00	41.37	37.97	15.08	51.48	74.00	-22.52	Peak	HORIZONTAL
5	9555.00	41.08	38.53	15.61	52.38	74.00	-21.62	Peak	HORIZONTAL
6	10395.00	39.71	38.96	17.30	53.17	74.00	-20.83	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site	: 10m Chamber		
Test Date	: 11-29-2024	**Tested By**	: Sunny
EUT	: Portable Weather Station	**Model Number**	: SKY-100
Power Supply	: by battery	**Test Mode**	: Tx mode
Memo	: 11n40 MCS0 2422MHz		

Data: 84



Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	3225.00	48.67	30.39	11.39	46.96	74.00	-27.04	Peak	VERTICAL
2	6495.00	41.10	36.69	13.70	48.99	74.00	-25.01	Peak	VERTICAL
3	7410.00	40.75	37.93	14.19	50.11	74.00	-23.89	Peak	VERTICAL
4	8820.00	40.79	38.09	15.33	51.29	74.00	-22.71	Peak	VERTICAL
5	9435.00	40.83	38.46	15.26	51.69	74.00	-22.31	Peak	VERTICAL
6	10605.00	39.09	38.98	17.34	52.61	74.00	-21.39	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

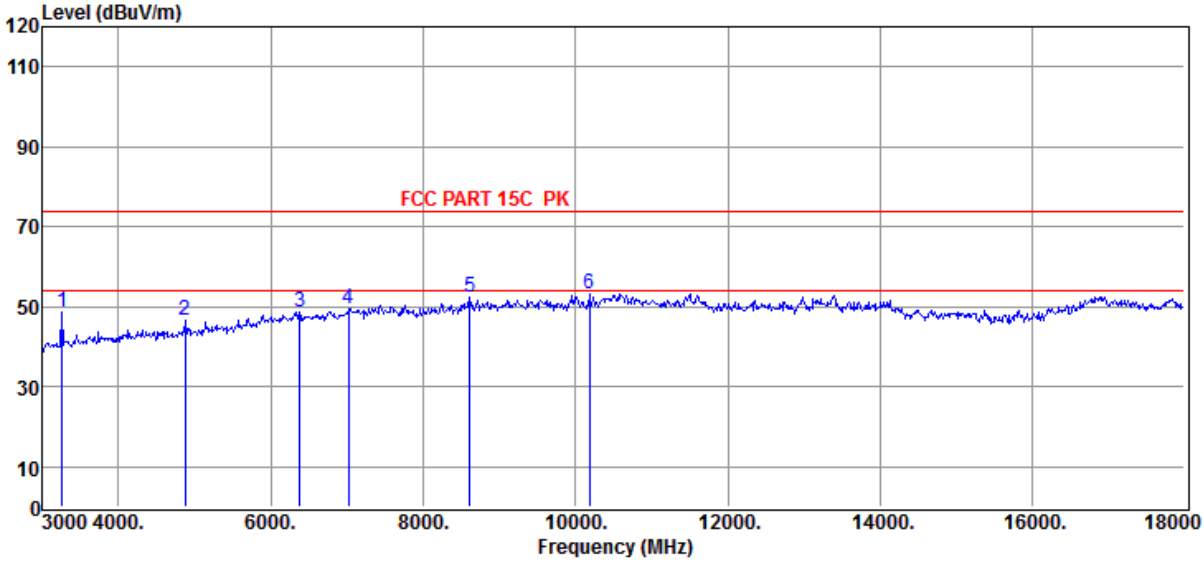
Test Date : 11-29-2024 **Tested By** : Sunny

EUT : Portable Weather Station **Model Number** : SKY-100

Power Supply : by battery **Test Mode** : Tx mode

Memo : 11n40 MCS0 2437MHz

Data: 85



Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	3255.00	50.19	30.46	11.33	48.51	74.00	-25.49	Peak	HORIZONTAL
2	4875.00	43.51	33.38	12.28	46.51	74.00	-27.49	Peak	HORIZONTAL
3	6375.00	41.18	36.55	13.60	48.86	74.00	-25.14	Peak	HORIZONTAL
4	7020.00	40.39	37.62	14.18	49.58	74.00	-24.42	Peak	HORIZONTAL
5	8610.00	42.19	37.97	15.08	52.30	74.00	-21.70	Peak	HORIZONTAL
6	10185.00	41.24	38.87	15.93	53.24	74.00	-20.76	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

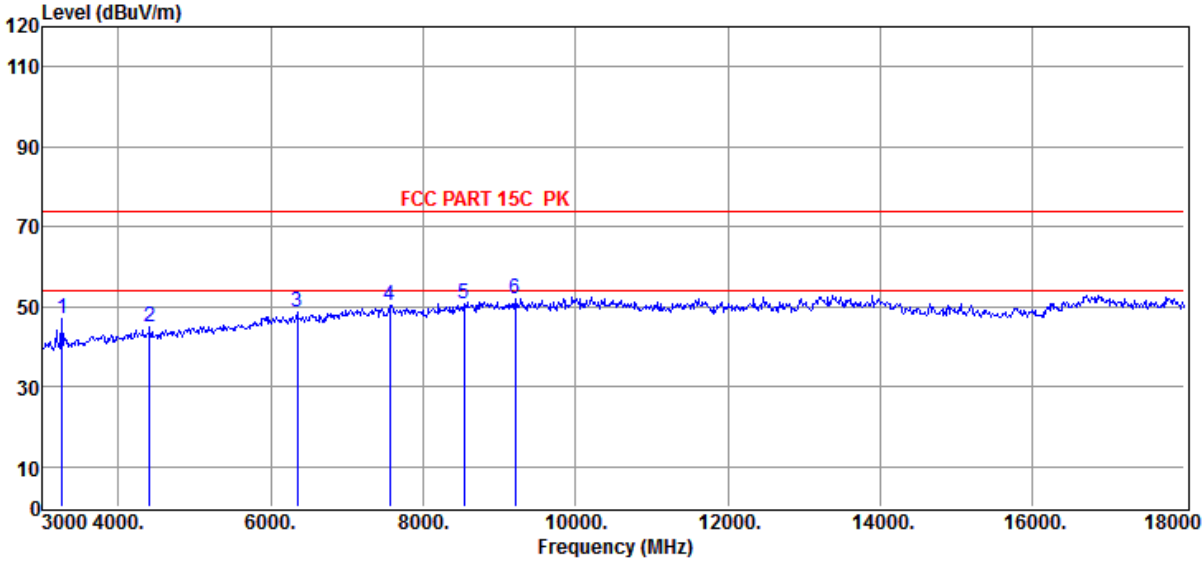
Test Date : 11-29-2024 **Tested By** : Sunny

EUT : Portable Weather Station **Model Number** : SKY-100

Power Supply : by battery **Test Mode** : Tx mode

Memo : 11n40 MCS0 2437MHz

Data: 86



Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	3255.00	48.51	30.46	11.33	46.83	74.00	-27.17	Peak	VERTICAL
2	4410.00	43.23	32.66	12.12	45.12	74.00	-28.88	Peak	VERTICAL
3	6345.00	40.96	36.51	13.57	48.57	74.00	-25.43	Peak	VERTICAL
4	7560.00	40.60	37.93	14.61	50.32	74.00	-23.68	Peak	VERTICAL
5	8535.00	40.86	37.92	15.05	50.88	74.00	-23.12	Peak	VERTICAL
6	9210.00	41.41	38.33	14.95	51.81	74.00	-22.19	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

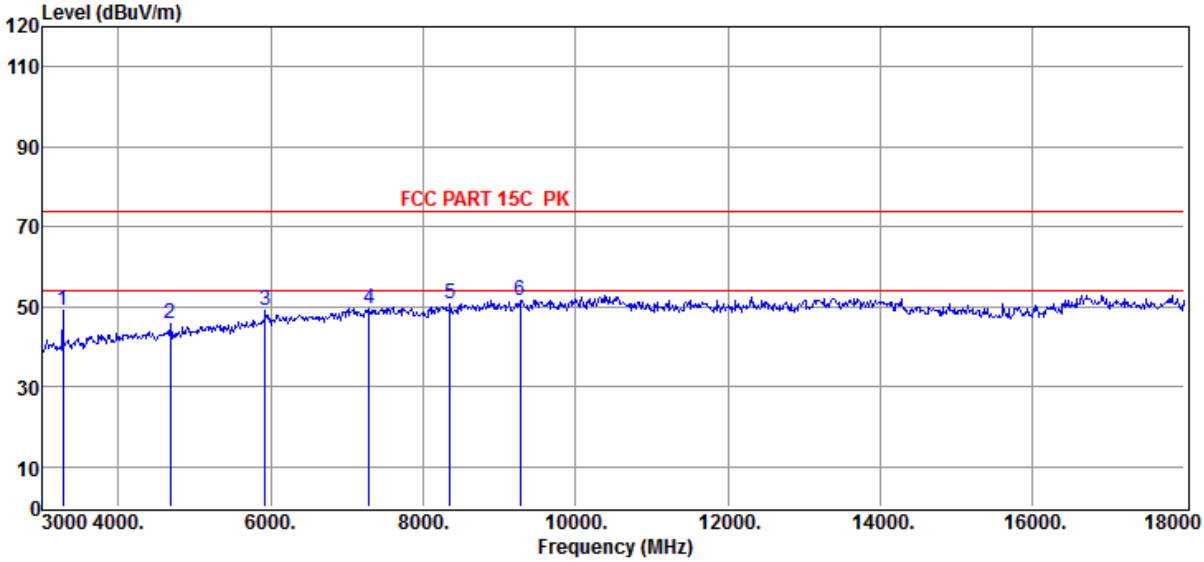
Test Date : 11-29-2024 **Tested By** : Sunny

EUT : Portable Weather Station **Model Number** : SKY-100

Power Supply : by battery **Test Mode** : Tx mode

Memo : 11n40 MCS0 2452MHz

Data: 87



Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	3270.00	50.71	30.50	11.30	49.04	74.00	-24.96	Peak	HORIZONTAL
2	4680.00	43.46	33.02	12.12	45.84	74.00	-28.16	Peak	HORIZONTAL
3	5925.00	42.01	35.88	13.52	48.99	74.00	-25.01	Peak	HORIZONTAL
4	7290.00	40.19	37.83	14.28	49.58	74.00	-24.42	Peak	HORIZONTAL
5	8355.00	41.49	37.76	14.58	50.87	74.00	-23.13	Peak	HORIZONTAL
6	9270.00	41.03	38.36	15.15	51.67	74.00	-22.33	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

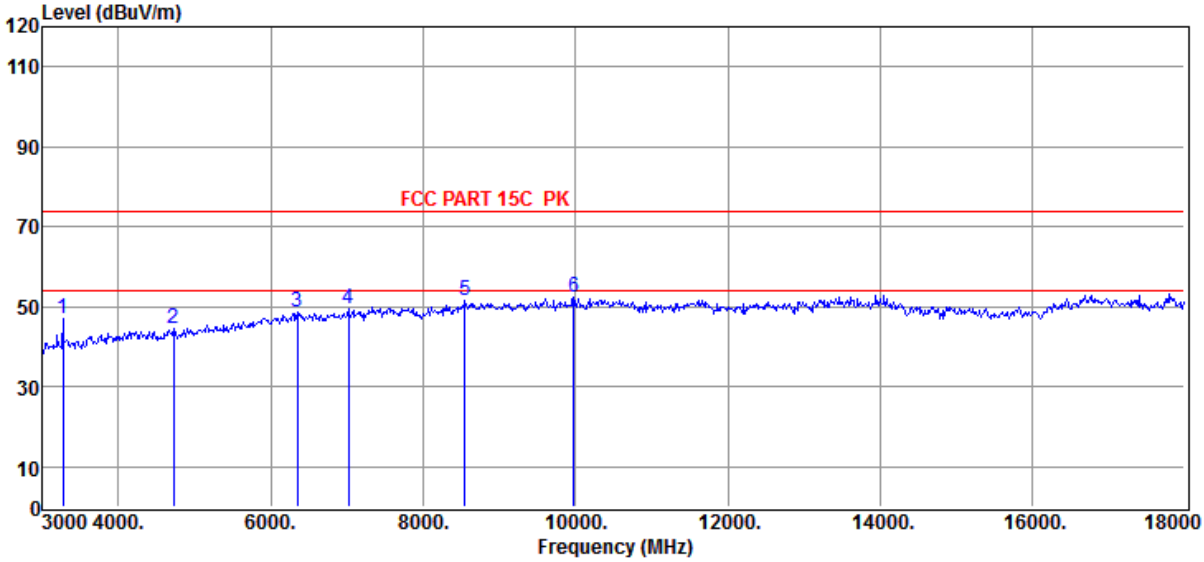
Test Date : 11-29-2024 **Tested By** : Sunny

EUT : Portable Weather Station **Model Number** : SKY-100

Power Supply : by battery **Test Mode** : Tx mode

Memo : 11n40 MCS0 2452MHz

Data: 88



Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	3270.00	48.66	30.50	11.30	46.99	74.00	-27.01	Peak	VERTICAL
2	4725.00	42.02	33.10	12.12	44.50	74.00	-29.50	Peak	VERTICAL
3	6345.00	41.10	36.51	13.57	48.71	74.00	-25.29	Peak	VERTICAL
4	7020.00	40.28	37.62	14.18	49.47	74.00	-24.53	Peak	VERTICAL
5	8550.00	41.36	37.93	15.06	51.41	74.00	-22.59	Peak	VERTICAL
6	9975.00	40.29	38.78	16.17	52.44	74.00	-21.56	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Margin = Result Level - Limit.

10. RF Conducted Spurious Emissions

10.1. Block diagram of test setup

Same as section 4.1

10.2. Limits

In any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator in operating, the radio frequency power that is produced by the intentional radiator shall be at least 30 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power.

10.3. Test procedure

(1) Connect EUT's antenna output to spectrum analyzer by RF cable.

(2) Establish a reference level by using the following procedure:

Center frequency	Test frequency
RBW:	100 kHz
VBW:	300 kHz
Span	Wide enough to capture the peak level of the in-band emission
Detector Mode:	Peak
Sweep time:	auto
Trace mode	Max hold

(3) Allow the trace to stabilize, use the peak marker function to determine the maximum peak power level to establish the reference level.

(4) Set the spectrum analyzer as follows:

RBW:	100 kHz
VBW:	300 kHz
Span	Encompass frequency range to be measured
Number of measurement points	≥span/RBW
Detector Mode:	Peak
Sweep time:	auto
Trace mode	Max hold

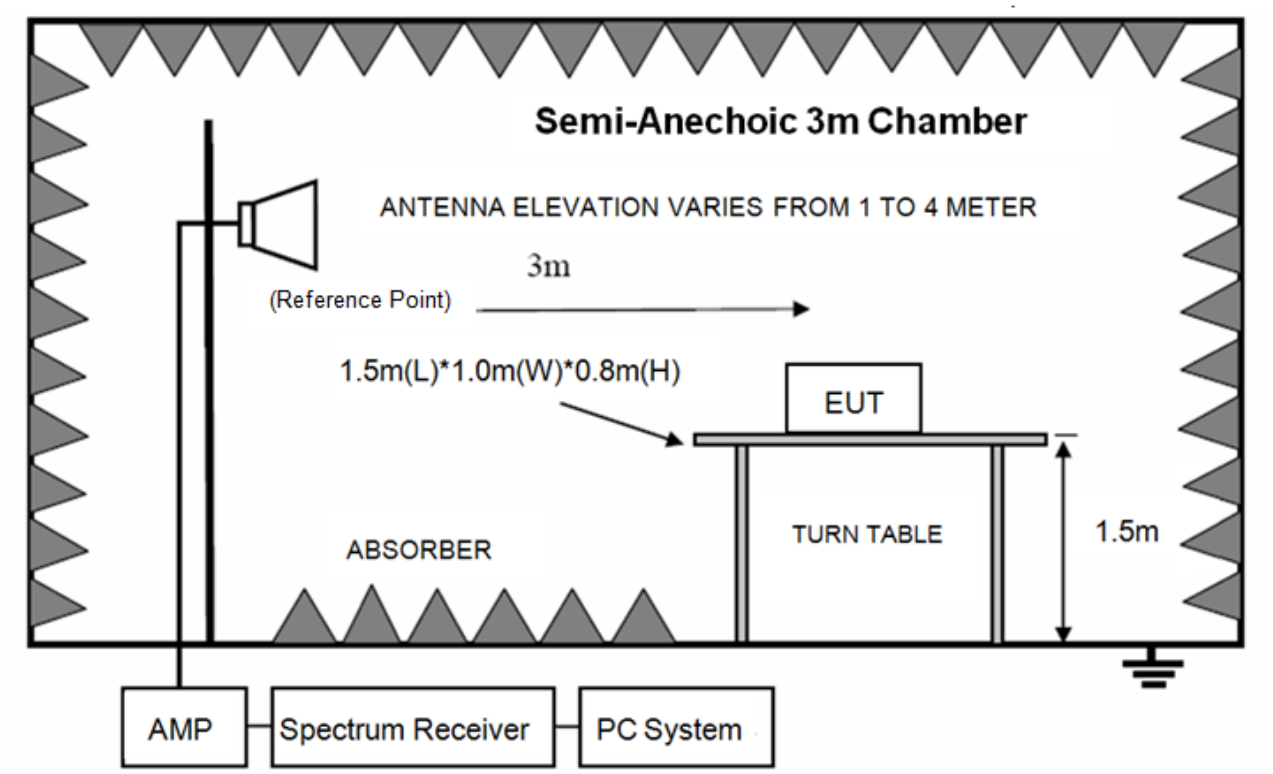
(5) Allow the trace to stabilize, use the peak marker function to determine the maximum amplitude of all unwanted emissions outside of the authorized frequency band

10.4. Test result

Pass
Please find the detailed data in APPENDIXES-2.4G WiFi-FCC.

11. Radiated Band Edge Compliance

11.1. Block diagram of test setup



11.2. Limit

All restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 2400 MHz to 2483.5 MHz shall be at least 20dB below the fundamental emissions or comply with RSS-Gen Issue 3 clause 7.2.5 (Same as FCC 15.209) limits.

11.3. Test procedure

Same with clause 8.3 except change investigated frequency range.

Remark: All restriction band have been tested, and shown in report.

11.4. Test result

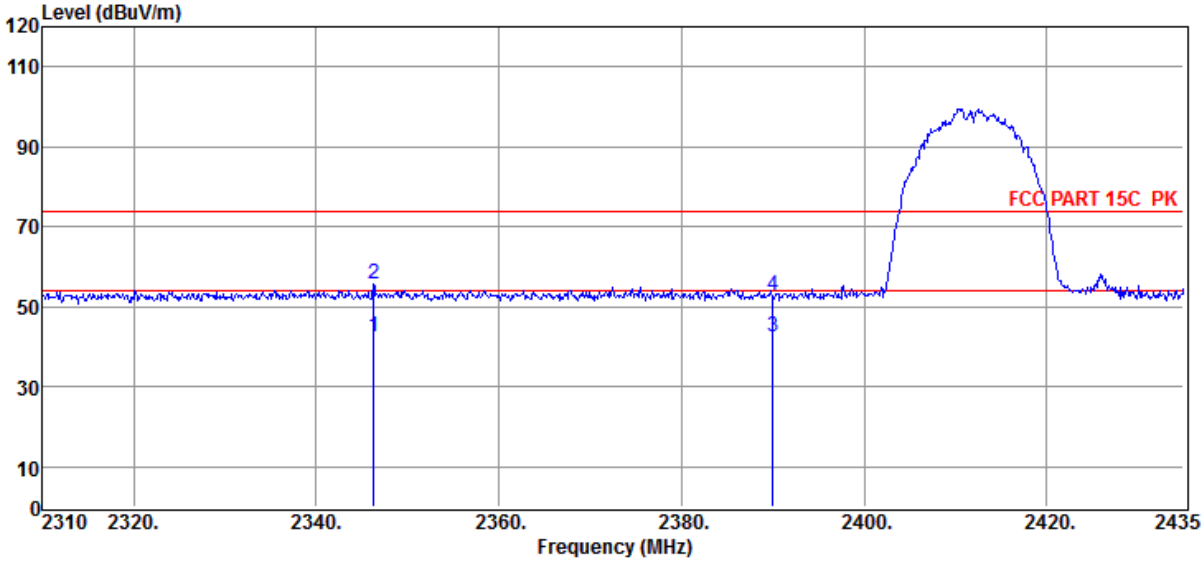
Pass. (See below detailed test result)

Note: All modes were test and the worst case was record in this report.

Radiated Emission Test Result

Test Site	: 10m Chamber		
Test Date	: 11-28-2024	**Tested By**	: Sunny
EUT	: Portable Weather Station	**Model Number**	: SKY-100
Power Supply	: by battery	**Test Mode**	: Tx mode
Memo	: 11b 1M 2412MHz		

Data: 1



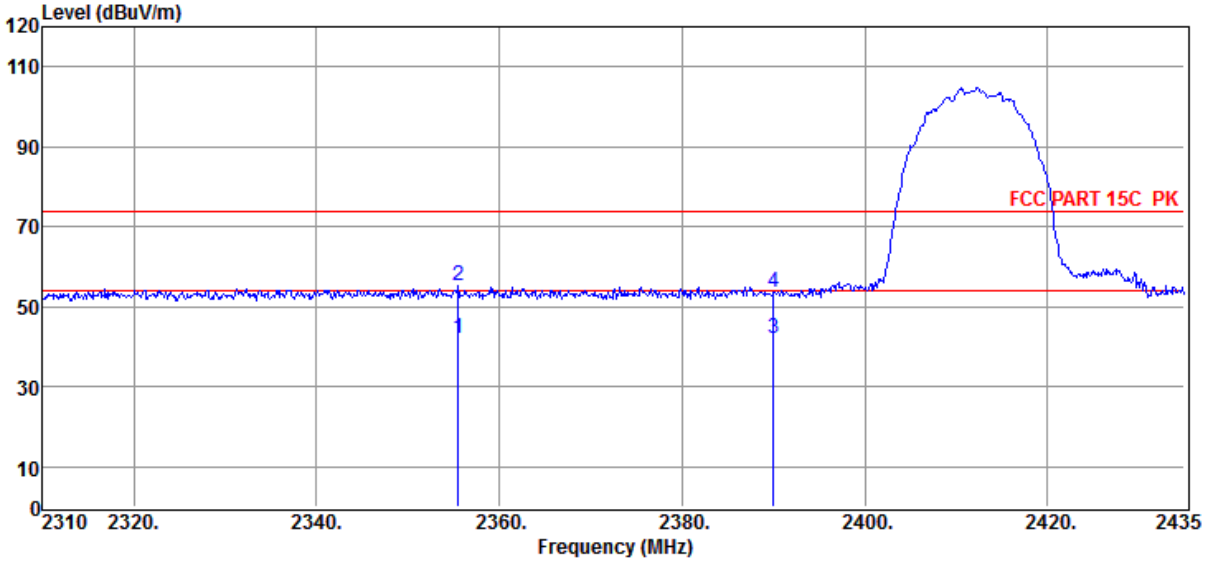
Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	2346.25	10.56	28.37	3.39	42.32	54.00	-11.68	Average	HORIZONTAL
2	2346.25	24.00	28.37	3.39	55.76	74.00	-18.24	Peak	HORIZONTAL
3	2390.00	10.58	28.38	3.31	42.27	54.00	-11.73	Average	HORIZONTAL
4	2390.00	20.98	28.38	3.31	52.67	74.00	-21.33	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site	: 10m Chamber		
Test Date	: 11-28-2024	**Tested By**	: Sunny
EUT	: Portable Weather Station	**Model Number**	: SKY-100
Power Supply	: by battery	**Test Mode**	: Tx mode
Memo	: 11b 1M 2412MHz		

Data: 2



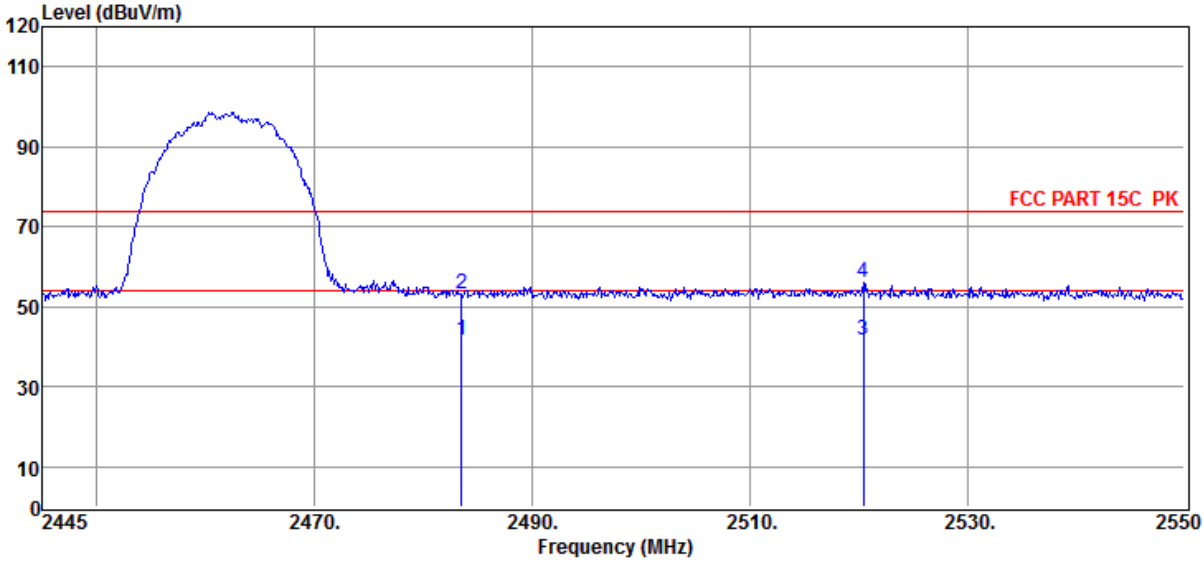
Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	2355.50	10.32	28.37	3.40	42.09	54.00	-11.91	Average	VERTICAL
2	2355.50	23.32	28.37	3.40	55.09	74.00	-18.91	Peak	VERTICAL
3	2390.00	10.21	28.38	3.31	41.90	54.00	-12.10	Average	VERTICAL
4	2390.00	21.75	28.38	3.31	53.44	74.00	-20.56	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site	: 10m Chamber		
Test Date	: 11-28-2024	**Tested By**	: Sunny
EUT	: Portable Weather Station	**Model Number**	: SKY-100
Power Supply	: by battery	**Test Mode**	: Tx mode
Memo	: 11b 1M 2462MHz		

Data: 3



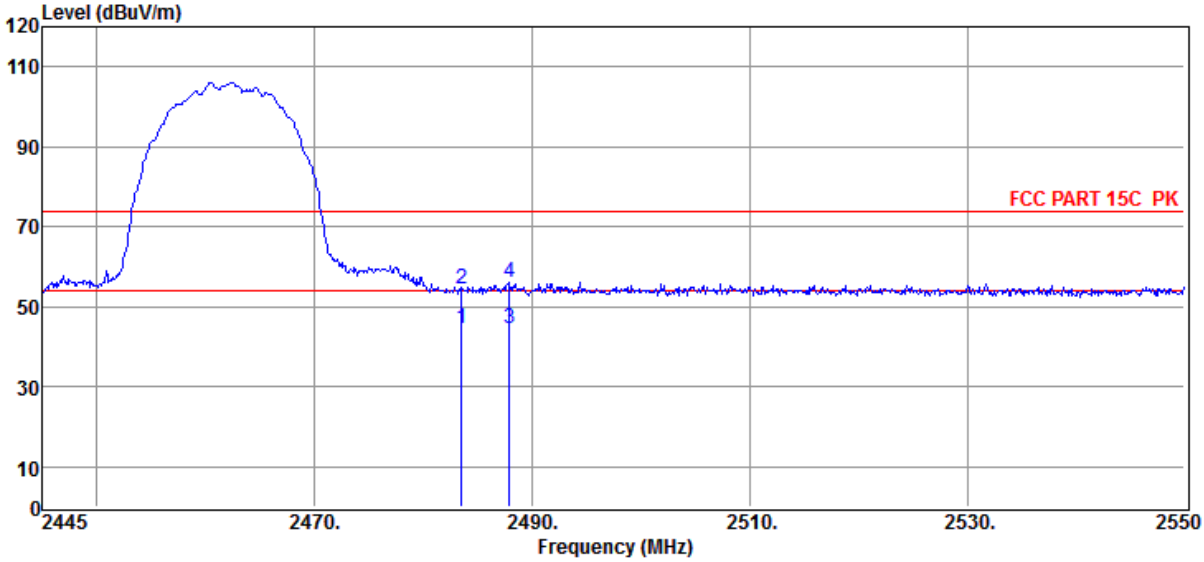
Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	2483.50	10.16	28.40	3.25	41.81	54.00	-12.19	Average	HORIZONTAL
2	2483.50	21.46	28.40	3.25	53.11	74.00	-20.89	Peak	HORIZONTAL
3	2520.50	10.08	28.46	3.27	41.81	54.00	-12.19	Average	HORIZONTAL
4	2520.50	24.25	28.46	3.27	55.98	74.00	-18.02	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site	: 10m Chamber		
Test Date	: 11-28-2024	**Tested By**	: Sunny
EUT	: Portable Weather Station	**Model Number**	: SKY-100
Power Supply	: by battery	**Test Mode**	: Tx mode
Memo	: 11b 1M 2462MHz		

Data: 4



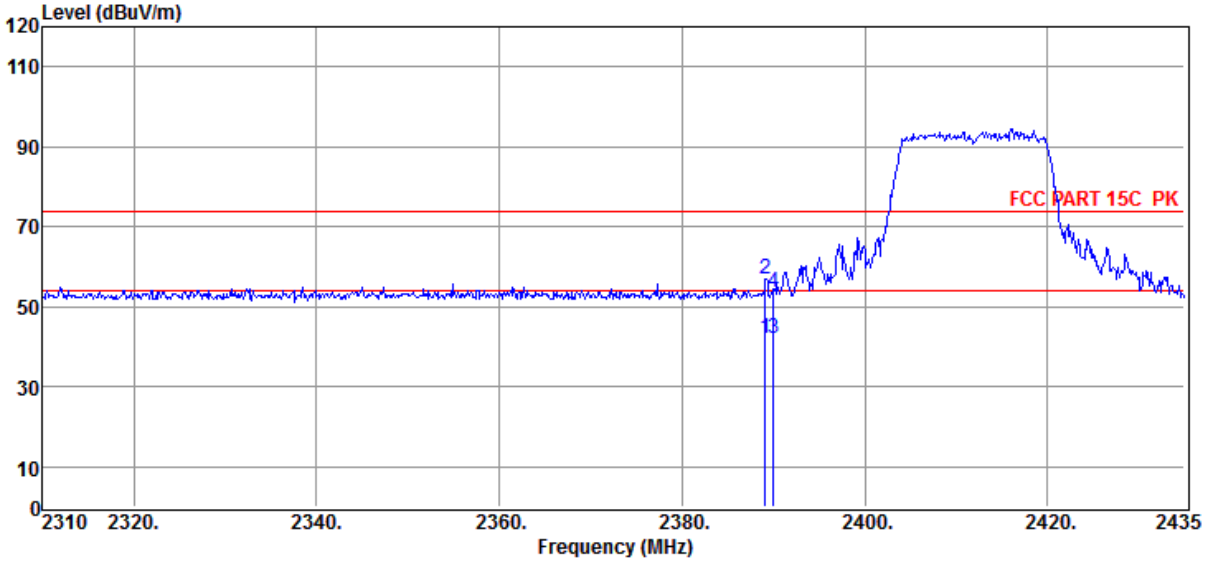
Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	2483.50	12.84	28.40	3.25	44.49	54.00	-9.51	Average	VERTICAL
2	2483.50	22.75	28.40	3.25	54.40	74.00	-19.60	Peak	VERTICAL
3	2487.95	13.04	28.40	3.25	44.69	54.00	-9.31	Average	VERTICAL
4	2487.95	24.57	28.40	3.25	56.22	74.00	-17.78	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site	: 10m Chamber		
Test Date	: 11-28-2024	**Tested By**	: Sunny
EUT	: Portable Weather Station	**Model Number**	: SKY-100
Power Supply	: by battery	**Test Mode**	: Tx mode
Memo	: 11g 6M 2412MHz		

Data: 5



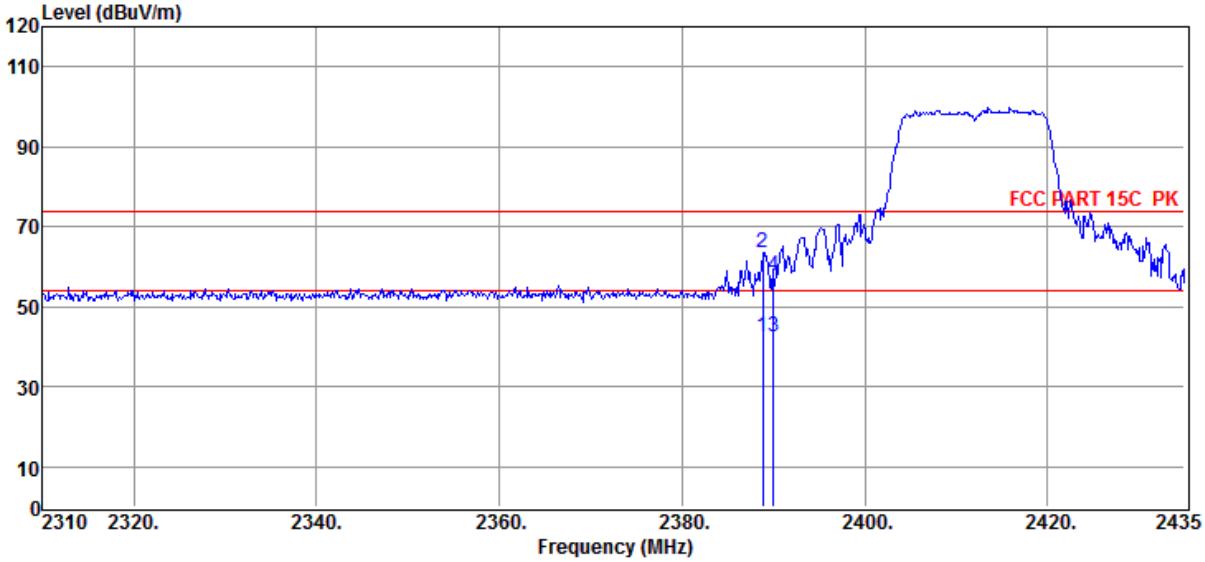
Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	2389.13	10.36	28.38	3.32	42.06	54.00	-11.94	Average	HORIZONTAL
2	2389.13	25.03	28.38	3.32	56.73	74.00	-17.27	Peak	HORIZONTAL
3	2390.00	10.45	28.38	3.31	42.14	54.00	-11.86	Average	HORIZONTAL
4	2390.00	22.01	28.38	3.31	53.70	74.00	-20.30	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site	: 10m Chamber		
Test Date	: 11-28-2024	**Tested By**	: Sunny
EUT	: Portable Weather Station	**Model Number**	: SKY-100
Power Supply	: by battery	**Test Mode**	: Tx mode
Memo	: 11g 6M 2412MHz		

Data: 6



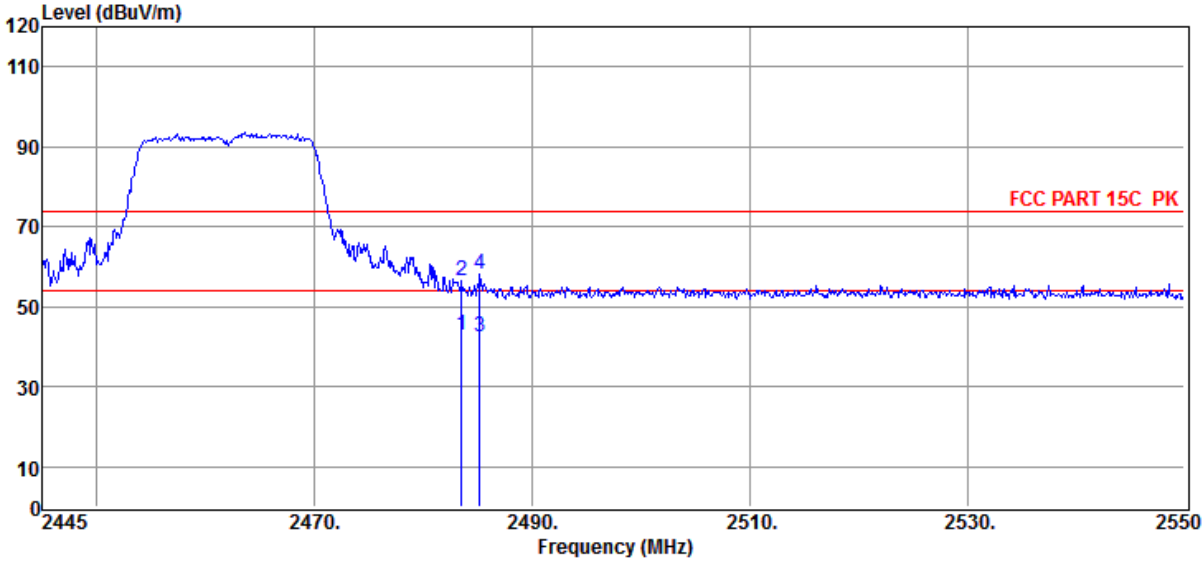
Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	2388.88	10.73	28.38	3.32	42.43	54.00	-11.57	Average	VERTICAL
2	2388.88	31.80	28.38	3.32	63.50	74.00	-10.50	Peak	VERTICAL
3	2390.00	10.95	28.38	3.31	42.64	54.00	-11.36	Average	VERTICAL
4	2390.00	26.06	28.38	3.31	57.75	74.00	-16.25	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site	: 10m Chamber		
Test Date	: 11-28-2024	**Tested By**	: Sunny
EUT	: Portable Weather Station	**Model Number**	: SKY-100
Power Supply	: by battery	**Test Mode**	: Tx mode
Memo	: 11g 6M 2462MHz		

Data: 7



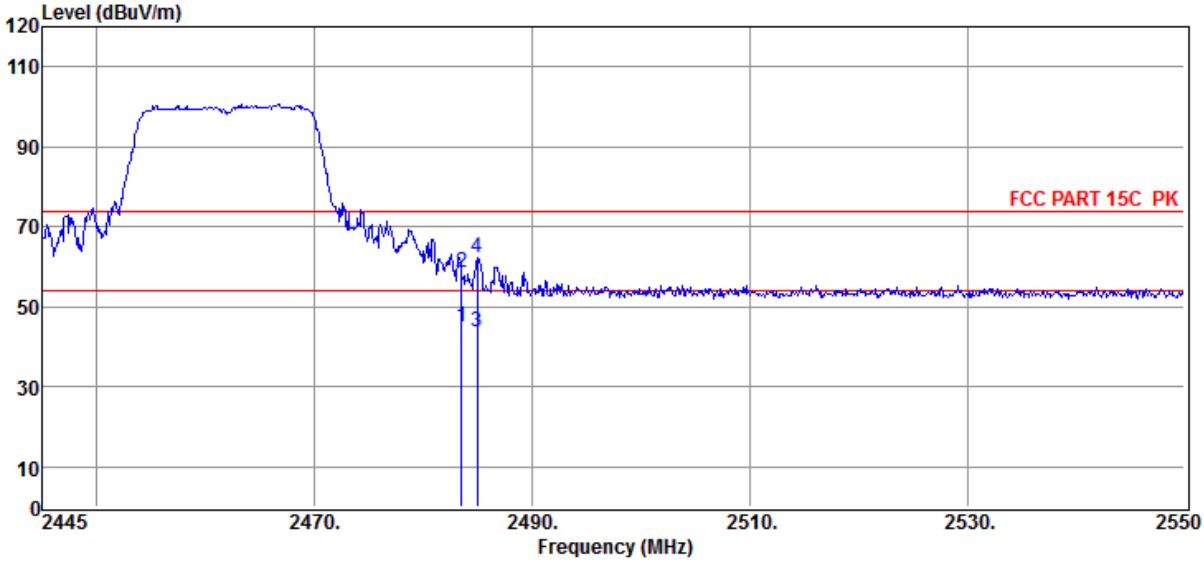
Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	2483.50	11.12	28.40	3.25	42.77	54.00	-11.23	Average	HORIZONTAL
2	2483.50	24.75	28.40	3.25	56.40	74.00	-17.60	Peak	HORIZONTAL
3	2485.22	10.71	28.40	3.25	42.36	54.00	-11.64	Average	HORIZONTAL
4	2485.22	26.52	28.40	3.25	58.17	74.00	-15.83	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site	: 10m Chamber		
Test Date	: 11-28-2024	**Tested By**	: Sunny
EUT	: Portable Weather Station	**Model Number**	: SKY-100
Power Supply	: by battery	**Test Mode**	: Tx mode
Memo	: 11g 6M 2462MHz		

Data: 8



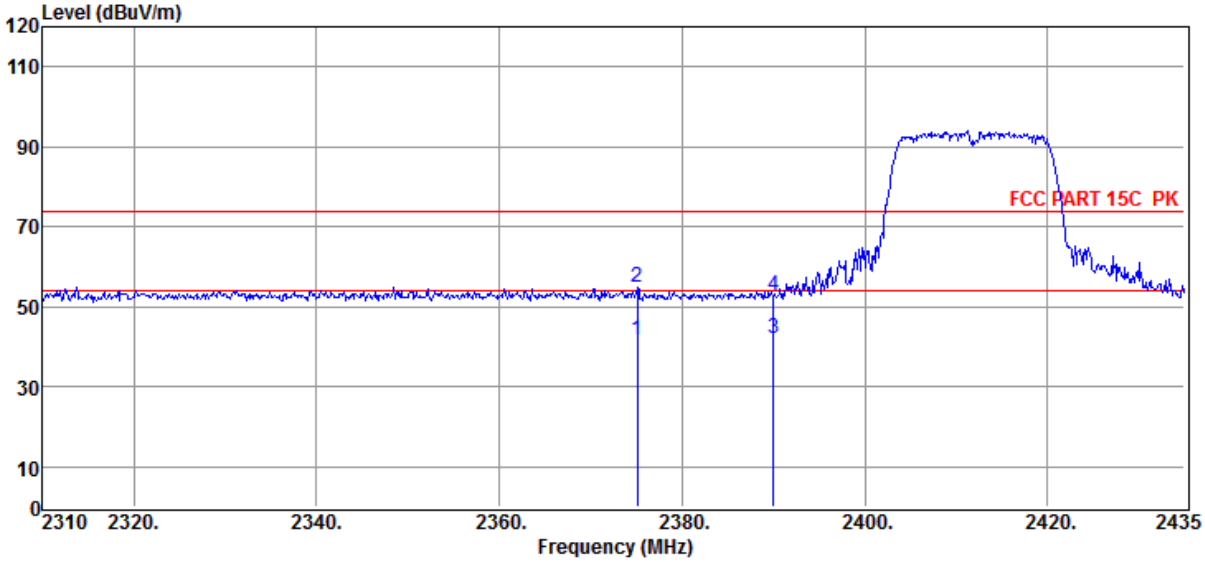
Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	2483.50	13.41	28.40	3.25	45.06	54.00	-8.94	Average	VERTICAL
2	2483.50	26.83	28.40	3.25	58.48	74.00	-15.52	Peak	VERTICAL
3	2485.01	12.09	28.40	3.25	43.74	54.00	-10.26	Average	VERTICAL
4	2485.01	30.71	28.40	3.25	62.36	74.00	-11.64	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site	: 10m Chamber		
Test Date	: 11-28-2024	**Tested By**	: Sunny
EUT	: Portable Weather Station	**Model Number**	: SKY-100
Power Supply	: by battery	**Test Mode**	: Tx mode
Memo	: 11n20 MCS0 2412MHz		

Data: 9



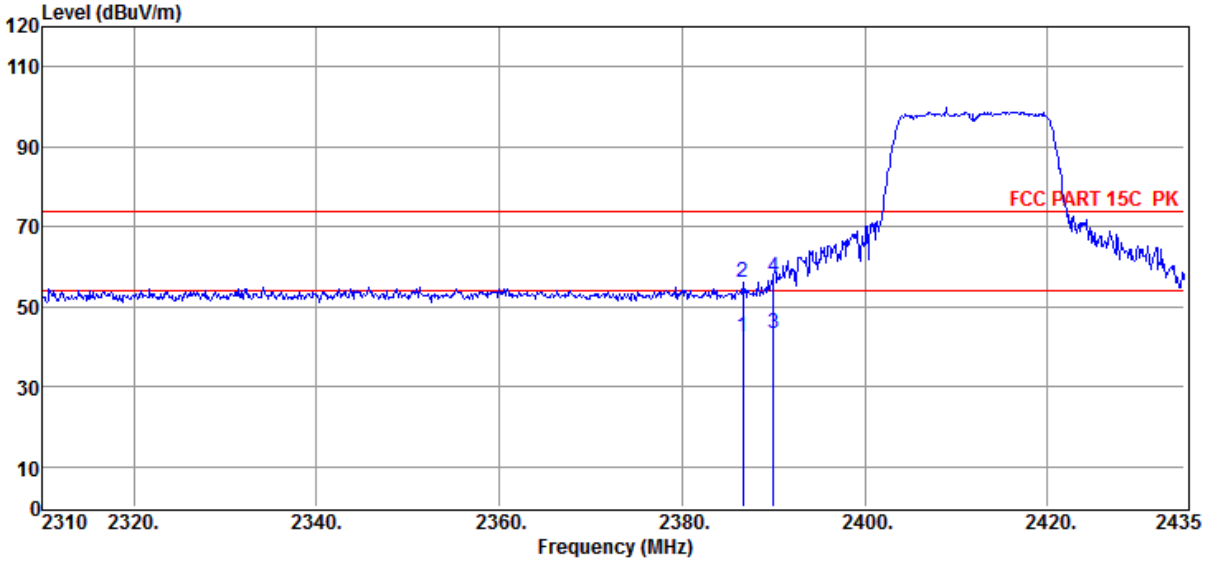
Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	2375.13	10.03	28.38	3.35	41.76	54.00	-12.24	Average	HORIZONTAL
2	2375.13	22.97	28.38	3.35	54.70	74.00	-19.30	Peak	HORIZONTAL
3	2390.00	10.25	28.38	3.31	41.94	54.00	-12.06	Average	HORIZONTAL
4	2390.00	21.23	28.38	3.31	52.92	74.00	-21.08	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site	: 10m Chamber		
Test Date	: 11-28-2024	**Tested By**	: Sunny
EUT	: Portable Weather Station	**Model Number**	: SKY-100
Power Supply	: by battery	**Test Mode**	: Tx mode
Memo	: 11n20 MCS0 2412MHz		

Data: 10



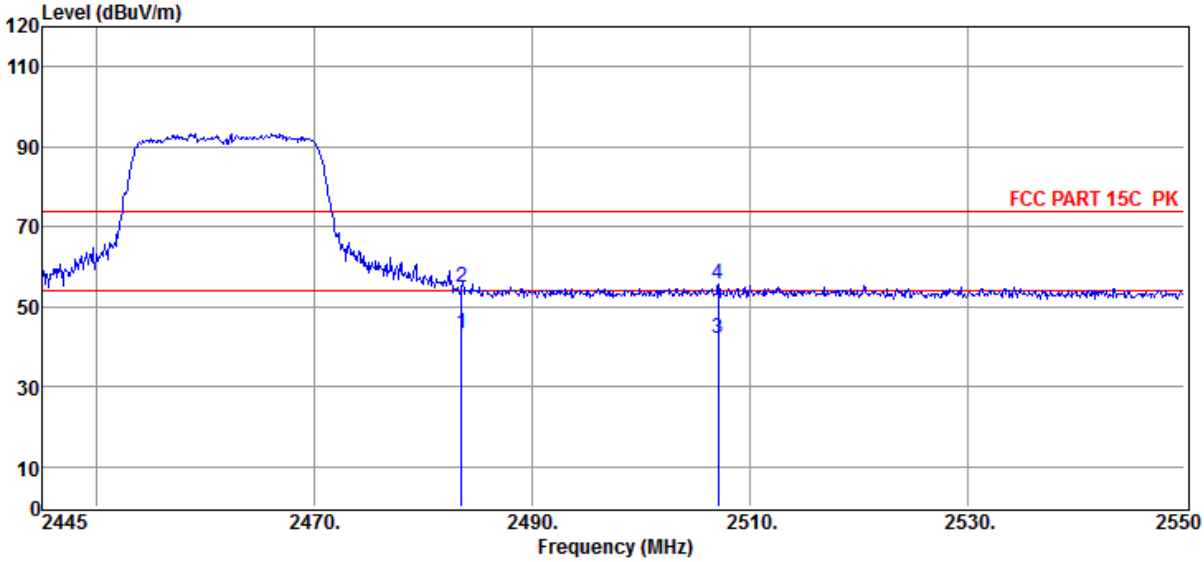
Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	2386.63	10.71	28.38	3.32	42.41	54.00	-11.59	Average	VERTICAL
2	2386.63	24.44	28.38	3.32	56.14	74.00	-17.86	Peak	VERTICAL
3	2390.00	11.52	28.38	3.31	43.21	54.00	-10.79	Average	VERTICAL
4	2390.00	25.59	28.38	3.31	57.28	74.00	-16.72	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site	: 10m Chamber		
Test Date	: 11-28-2024	**Tested By**	: Sunny
EUT	: Portable Weather Station	**Model Number**	: SKY-100
Power Supply	: by battery	**Test Mode**	: Tx mode
Memo	: 11n20 MCS0 2462MHz		

Data: 11



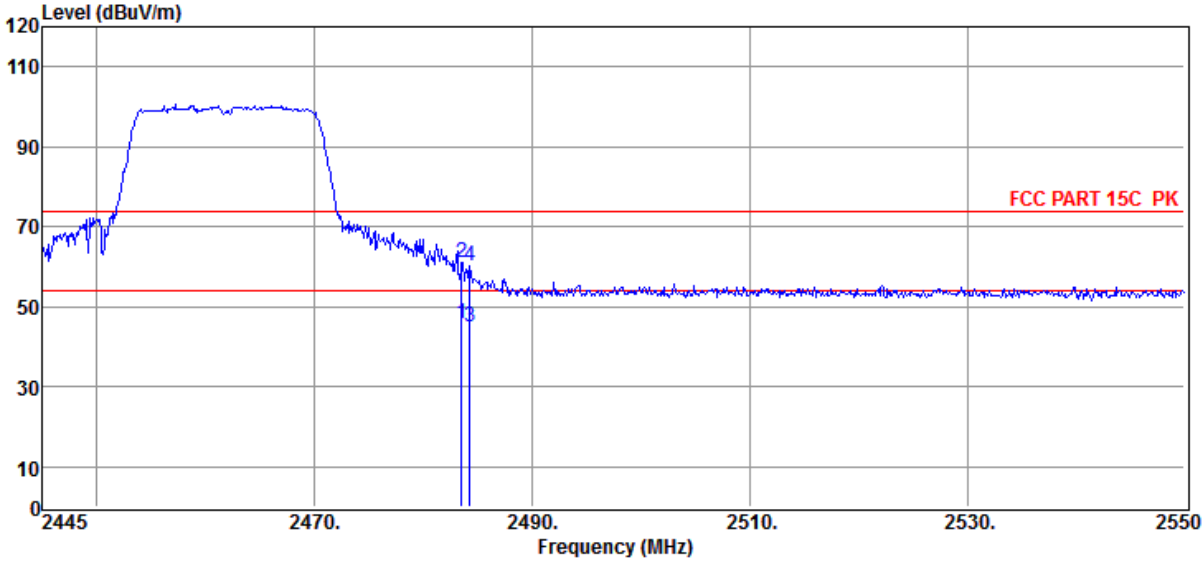
Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	2483.50	11.48	28.40	3.25	43.13	54.00	-10.87	Average	HORIZONTAL
2	2483.50	23.17	28.40	3.25	54.82	74.00	-19.18	Peak	HORIZONTAL
3	2507.16	10.54	28.42	3.26	42.22	54.00	-11.78	Average	HORIZONTAL
4	2507.16	23.84	28.42	3.26	55.52	74.00	-18.48	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site	: 10m Chamber		
Test Date	: 11-28-2024	**Tested By**	: Sunny
EUT	: Portable Weather Station	**Model Number**	: SKY-100
Power Supply	: by battery	**Test Mode**	: Tx mode
Memo	: 11n20 MCS0 2462MHz		

Data: 12



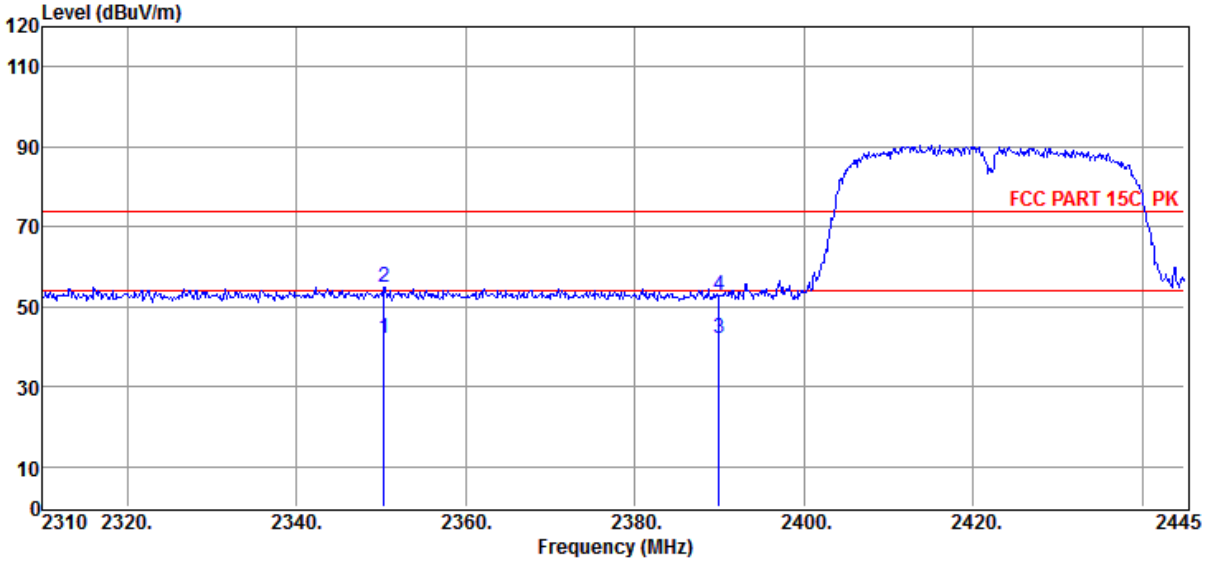
Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	2483.50	13.97	28.40	3.25	45.62	54.00	-8.38	Average	VERTICAL
2	2483.50	29.23	28.40	3.25	60.88	74.00	-13.12	Peak	VERTICAL
3	2484.27	13.46	28.40	3.25	45.11	54.00	-8.89	Average	VERTICAL
4	2484.27	28.55	28.40	3.25	60.20	74.00	-13.80	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site	: 10m Chamber		
Test Date	: 11-28-2024	**Tested By**	: Sunny
EUT	: Portable Weather Station	**Model Number**	: SKY-100
Power Supply	: by battery	**Test Mode**	: Tx mode
Memo	: 11n40 MCS0 2422MHz		

Data: 13



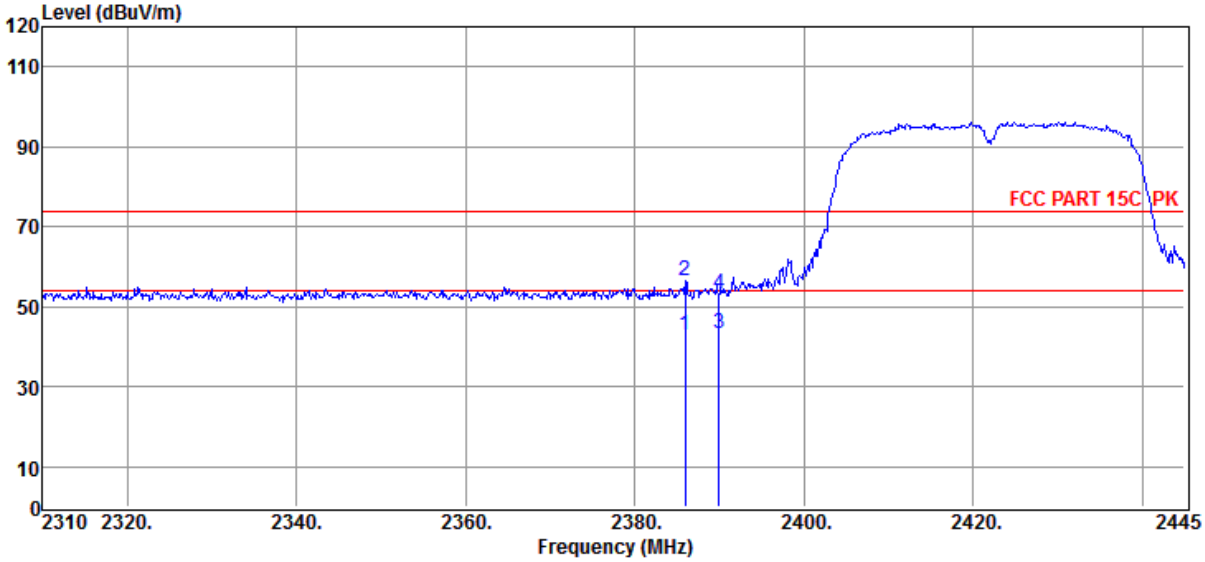
Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	2350.37	10.16	28.37	3.41	41.94	54.00	-12.06	Average	HORIZONTAL
2	2350.37	23.11	28.37	3.41	54.89	74.00	-19.11	Peak	HORIZONTAL
3	2390.00	10.35	28.38	3.31	42.04	54.00	-11.96	Average	HORIZONTAL
4	2390.00	21.25	28.38	3.31	52.94	74.00	-21.06	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site	: 10m Chamber		
Test Date	: 11-28-2024	**Tested By**	: Sunny
EUT	: Portable Weather Station	**Model Number**	: SKY-100
Power Supply	: by battery	**Test Mode**	: Tx mode
Memo	: 11n40 MCS0 2422MHz		

Data: 14



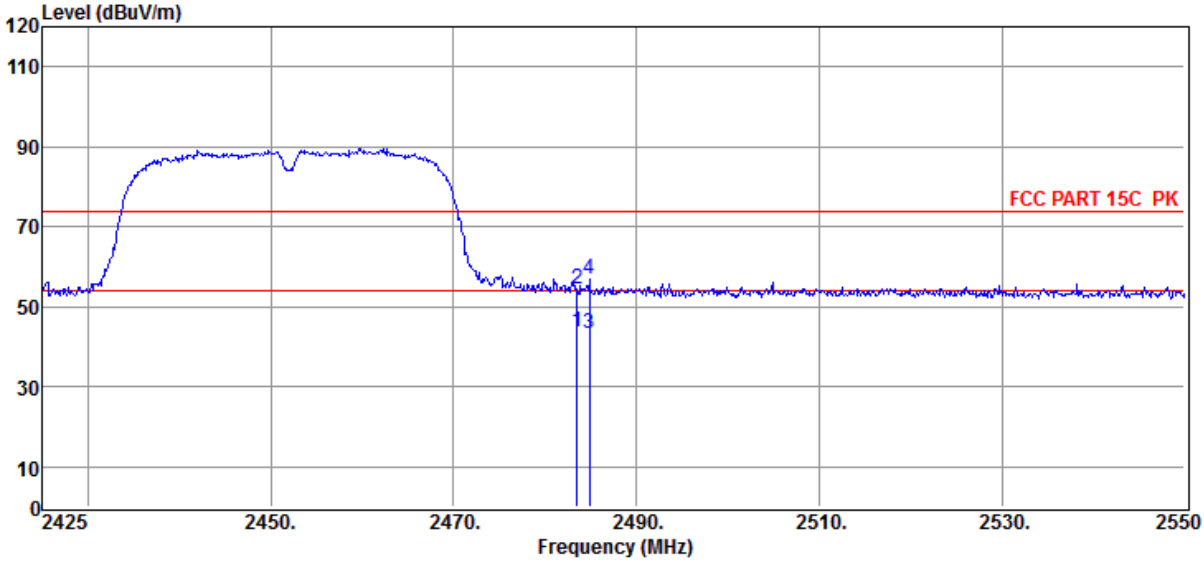
Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	2386.01	11.00	28.38	3.32	42.70	54.00	-11.30	Average	VERTICAL
2	2386.01	24.75	28.38	3.32	56.45	74.00	-17.55	Peak	VERTICAL
3	2390.00	11.68	28.38	3.31	43.37	54.00	-10.63	Average	VERTICAL
4	2390.00	21.41	28.38	3.31	53.10	74.00	-20.90	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site	: 10m Chamber		
Test Date	: 11-28-2024	**Tested By**	: Sunny
EUT	: Portable Weather Station	**Model Number**	: SKY-100
Power Supply	: by battery	**Test Mode**	: Tx mode
Memo	: 11n40 MCS0 2452MHz		

Data: 15



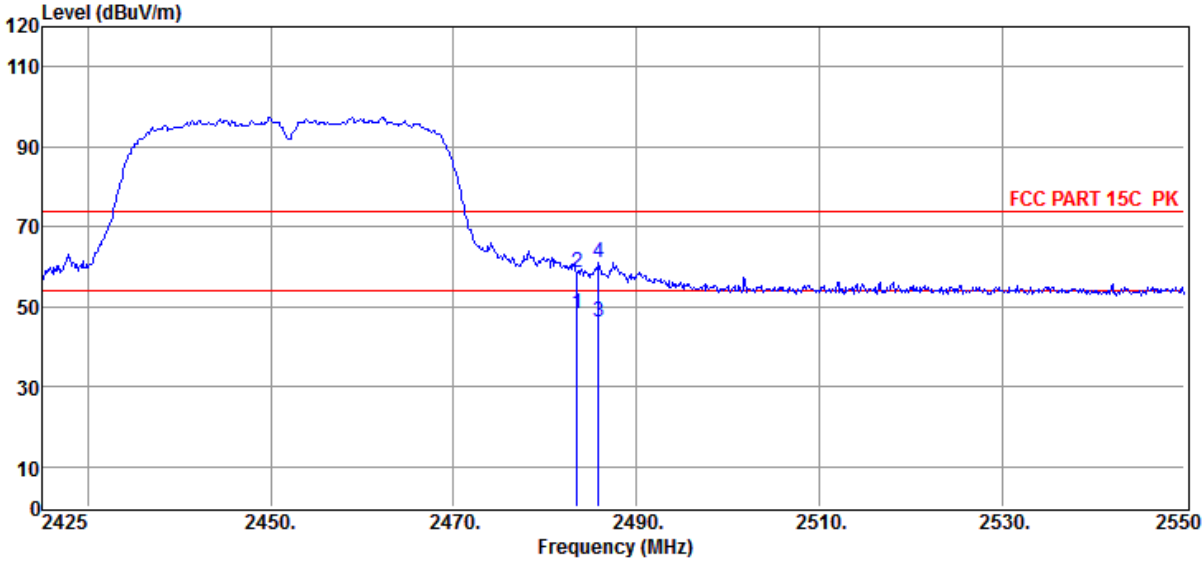
Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	2483.50	11.94	28.40	3.25	43.59	54.00	-10.41	Average	HORIZONTAL
2	2483.50	22.63	28.40	3.25	54.28	74.00	-19.72	Peak	HORIZONTAL
3	2484.88	11.72	28.40	3.25	43.37	54.00	-10.63	Average	HORIZONTAL
4	2484.88	25.30	28.40	3.25	56.95	74.00	-17.05	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site	: 10m Chamber		
Test Date	: 11-28-2024	**Tested By**	: Sunny
EUT	: Portable Weather Station	**Model Number**	: SKY-100
Power Supply	: by battery	**Test Mode**	: Tx mode
Memo	: 11n40 MCS0 2452MHz		

Data: 16

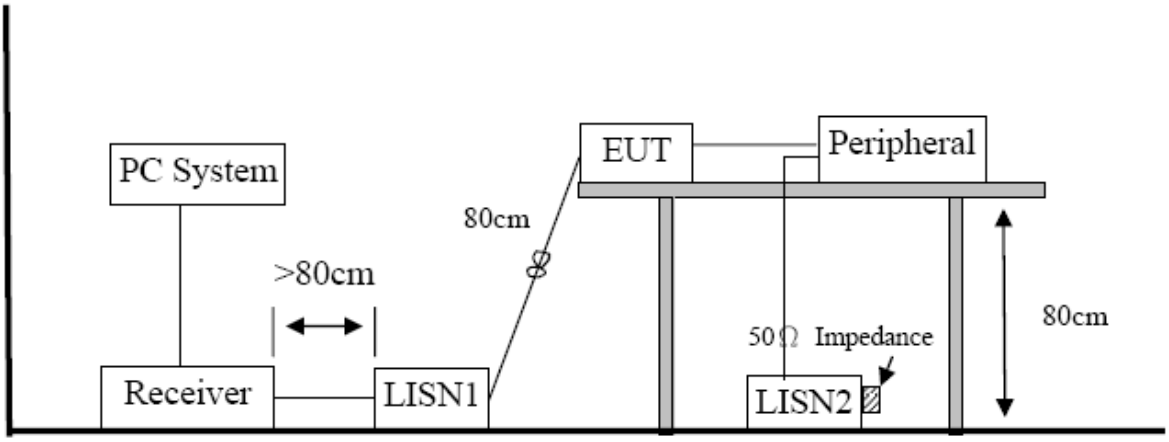


Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	2483.50	16.44	28.40	3.25	48.09	54.00	-5.91	Average	VERTICAL
2	2483.50	26.88	28.40	3.25	58.53	74.00	-15.47	Peak	VERTICAL
3	2485.88	14.42	28.40	3.25	46.07	54.00	-7.93	Average	VERTICAL
4	2485.88	29.43	28.40	3.25	61.08	74.00	-12.92	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Margin = Result Level - Limit.

12. Power Line Conducted Emission

12.1. Block diagram of test setup



12.2. Power Line Conducted Emission Limits (Class B)

Frequency	Quasi-Peak Level dB(μV)	Average Level dB(μV)
150 kHz ~ 500 kHz	66 ~ 56*	56 ~ 46*
500 kHz ~ 5 MHz	56	46
5 MHz ~ 30 MHz	60	50

Note 1: * Decreasing linearly with logarithm of frequency.

Note 2: The lower limit shall apply at the transition frequencies.

12.3. Test procedure

The EUT and Support equipment, if needed, were put placed on a non-metallic table, 80cm above the ground plane.

All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.

All support equipment power received from a second LISN.

Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.

The Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.

During the above scans, the emissions were maximized by cable manipulation.

After the preliminary scan, we found the test mode producing the highest emission level.

The EUT configuration and worse cable configuration of the above highest emission levels were recorded for reference of the final test.

EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test.

A scan was taken on both power lines, Neutral and Line, recording at least the six highest emissions.

Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit.

The test data of the worst-case condition(s) was recorded.

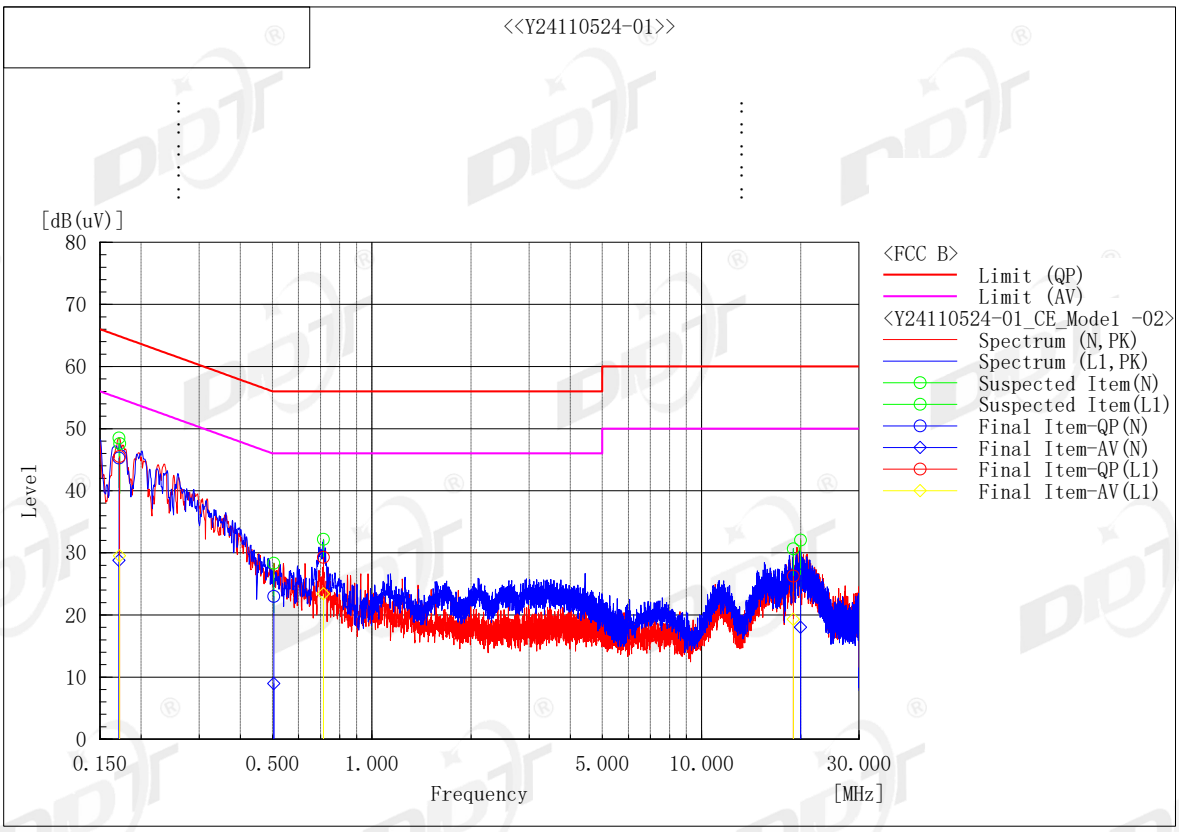
The bandwidth of test receiver is set at 9 kHz.

12.4. Test result

Pass. (See below detailed test result)

Note1: All emissions not reported below are too low against the prescribed limits.
Note2: Pre-test AC conducted emission at all mode, only the worst case was recorded in this report.

Conducted Emission Test Result



Final Result

--- N Phase ---

No.	Frequency [MHz]	Reading QP [dB(uV)]	Reading CAV [dB(uV)]	c.f [dB]	Result QP [dB(uV)]	Result CAV [dB(uV)]	Limit QP [dB(uV)]	Limit AV [dB(uV)]	Margin QP [dB]	Margin CAV [dB]
1	0.17134	35.5	19.0	9.8	45.3	28.8	64.9	54.9	19.6	26.1
2	0.50512	13.2	-0.8	9.8	23.0	9.0	56.0	46.0	33.0	37.0
3	19.95603	16.1	7.7	10.3	26.4	18.0	60.0	50.0	33.6	32.0

--- L1 Phase ---

No.	Frequency [MHz]	Reading QP [dB(uV)]	Reading CAV [dB(uV)]	c.f [dB]	Result QP [dB(uV)]	Result CAV [dB(uV)]	Limit QP [dB(uV)]	Limit AV [dB(uV)]	Margin QP [dB]	Margin CAV [dB]
1	0.17195	35.7	19.7	9.8	45.5	29.5	64.9	54.9	19.4	25.4
2	0.71415	19.5	13.6	9.8	29.3	23.4	56.0	46.0	26.7	22.6
3	18.96853	15.9	9.0	10.3	26.2	19.3	60.0	50.0	33.8	30.7

Note1) Level (Quasi-Peak and/or C/Average) = Meter Reading + Factor
Note2) Line = Polarity of input power (Live or Neutral)
N : Abbreviation of Neutral Polarity, L1 : Abbreviation of Live Polarity,
Note3) Factor = LISN Insertion Loss + Cable Loss
Note4) Margin = Limit – Level (Quasi-Peak and/or C/Average)
Note5) C/Average : Abbreviation of CISPR Average

13. Antenna Requirements

13.1. Limit

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

13.2. Result

The antenna used for this product is FPC antenna and no antenna other than that furnished by the responsible party shall be used with the device.

14. Test Setup Photograph

Please find the detailed in APPENDIXES-Test Setup-FCC.

15. Photos of the EUT

Please find the photos of EUT in APPENDIXES.

END OF REPORT