

FCC - TEST REPORT

Report Number	:	60.790.16.109.01B	Date of Issue	:	December 9, 2016	
		704045 HO DV				
Model	:	Z31915-US-RX				
Product Type	:	Radio Control Weather	Station			
Applicant	:	Lidl US Trading, LLC				
Address	:	3500 S. Clark Street, Arlington, Virginia, United States				
Production Facility	:	FUZGOU EMAX ELECTRONIC CO., LTD				
Address	:	BULIDING 12-16, CANGSHAN INDUSTARIAL AREA, JUYUANZHOU JINSHAN DISTRICT FYZHOU CHINA				
Test Result	:	■Positive	□Negative			
Total pages including Appendices	:	22				

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2 Description of Equipment Under Test

Description of the Equipment Under Test

Product: Radio Control Weather Station

Model no.: Z31915-US-RX

FCC ID: 2AJ9O-Z31915R

Rating: 4.5VDC (3 x 1.5VDC size "AA" batteries)

Frequency: 433.92MHz

Report Number: 60.790.16.109.01B



3 Summary of Test Standards

Test Standards

FCC Part 15 Subpart B 10-1-15 Edition
Federal Communications Commission, PART 15 — Radio Frequency Devices,
Subpart B — Unintentional Radiators



4 Details about the Test Laboratory

Site 1

Company name: TÜV SÜD Hong Kong Ltd.

3/F, West Wing, Lakeside 2, 10 Science Park West Avenue, Science Park, Shatin, Hong Kong

Site 2

Company name: TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch

Building 12&13 Zhiheng Wisdomland Business Park,

Nantou Checkpoint Road 2, Shenzhen 518052, P.R.China FCC Registration Number: 502708

Emission Tests			
Test Item	Test Site		
FCC Part 15 Subpart B			
FCC Title 47 Part 15.109 Radiated Emission 30MHz-1000MHz	Site 2		
FCC Title 47 Part 15.107 Conduct Emission 150kHz-30MHz	N/A		



4.1 Test Equipment Site List

Radiated emission Test - Site 2

DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL. DUE DATE
EMI Test Receiver	Rohde & Schwarz	ESR 26	101269	15-July-17
Trilog Super Broadband Test Antenna	Schwarzbeck	VULB 9163	707	15-July-17
Horn Antenna	Rohde & Schwarz	HF907	102294	15-July-17
Pre-amplifier	Rohde & Schwarz	SCU 18	102230	15-July-17
3m Semi-anechoic chamber	TDK	9X6X6		29-May-19



4.2 Measurement System Uncertainty

Measurement System Uncertainty Emissions

System Measurement Uncertainty			
Items	Extended Uncertainty		
Uncertainty for Radiated Emission in 3m chamber	Horizontal: 4.83dB;		
30MHz-1000MHz	Vertical: 4.91dB;		
Uncertainty for Radiated Emission in 3m chamber	Horizontal: 4.89dB;		
1000MHz-25000MHz	Vertical: 4.88dB;		

Report Number: 60.790.16.109.01B



5 Summary of Test Results

Emission Tests					
FCC Part 15 Subpart B					
Test Condition	Pages	7	Test Resul	t	
		Pass	Fail	N/A	
FCC Title 47 Part 15.109 Radiated Emission 30MHz-1000MHz	10-15	\boxtimes			
FCC Title 47 Part 15.107 Conduct Emission 150kHz-30MHz	N/A			\boxtimes	



6 General Remarks

Remarks

NIL

SUMMARY:

- All tests according to the regulations cited on page 5 were
 - - Performed
 - □ Not Performed
- The Equipment Under Test
 - - Fulfills the general approval requirements.
 - □ **Does not** fulfill the general approval requirements.

Sample Received Date: November 3, 2016

Testing Start Date: November 4, 2016

Testing End Date: November 30, 2016

- TÜV SÜD HONG KONG LTD. -

Reviewed by:

TSENG Chi Kit EMC Project Engineer Repared by:

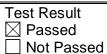
CHAN Kwong Ngai EMC Test Engineer

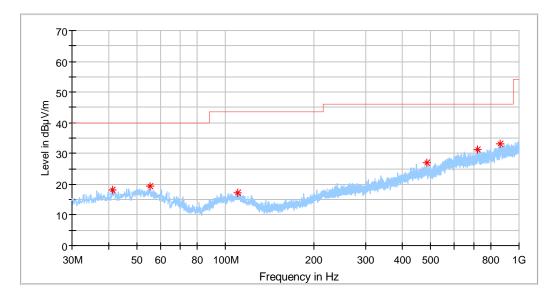


7 Emission Test Results

7.1 Radiated Emission

EUT: Z31915-US-RX
Op Condition: Receive Mode
Test Specification: Antenna: Horizontal



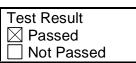


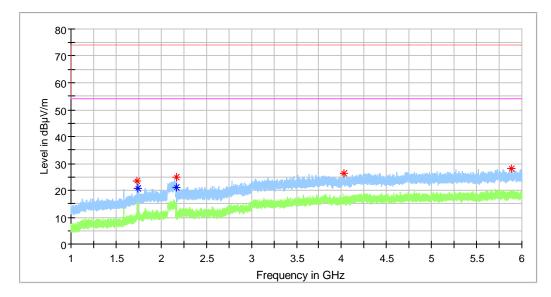
	Frequency	QP	Limit	Margin	
_	MHz	dBµV/m	dBµV/m	dB	
_	41.094	18.13	40.00	-21.87	
	55.341	19.20	40.00	-20.80	
	109.721	17.19	43.50	-26.31	
	486.081	26.90	46.00	-19.10	
	722.337	31.34	46.00	-14.66	
	865.351	33.22	46.00	-12.78	



Radiated Emission

EUT: Z31915-US-RX
Op Condition: Receive Mode
Test Specification: Antenna: Horizontal

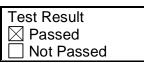


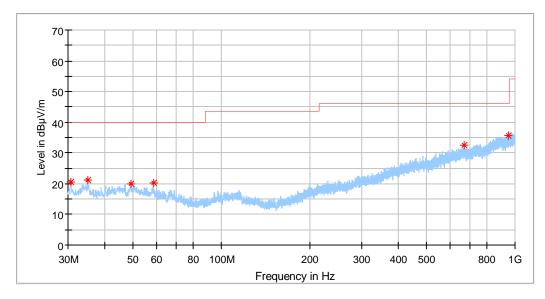


Frequency	Peak	Average	Limit	Margin
MHz	dBµV/m	dBµV/m	dBµV/m	dB
1735.833	23.44		74.00	-50.56
1736.041		20.73	54.00	-33.27
2169.791	25.07		74.00	-48.93
2170.208		20.99	54.00	-33.01
4031.250	26.40		74.00	-47.60
5887.916	28.04		74.00	-45.96

Radiated Emission

EUT: Z31915-US-RX
Op Condition: Receive Mode
Test Specification: Antenna: Vertical

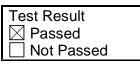


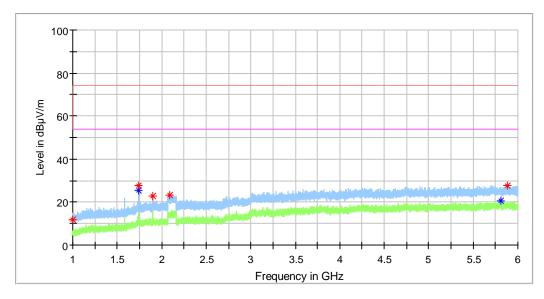


	Frequency	QP	Limit	Margin	
_	MHz	dBµV/m	dBµV/m	dB	
	30.666	20.53	40.00	-19.47	
	35.031	21.31	40.00	-18.69	
	49.278	19.86	40.00	-20.14	
	58.615	20.32	40.00	-19.68	
	671.412	32.47	46.00	-13.53	
	948.953	35.63	46.00	-10.37	

Radiated Emission

EUT: Z31915-US-RX
Op Condition: Receive Mode
Test Specification: Antenna: Vertical





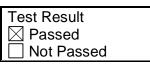
Frequency	Peak	Average	Limit	Margin
MHz	dBµV/m	dBµV/m	dBµV/m	dB
1000.000	11.68		54.00	-42.32
1736.041		25.56	54.00	-28.44
1736.250	27.77		74.00	-46.23
1901.250	23.02		74.00	-50.98
2093.958	23.43		74.00	-50.57
5812.500		20.52	54.00	-33.48
5888.125	27.80		74.00	-46.20

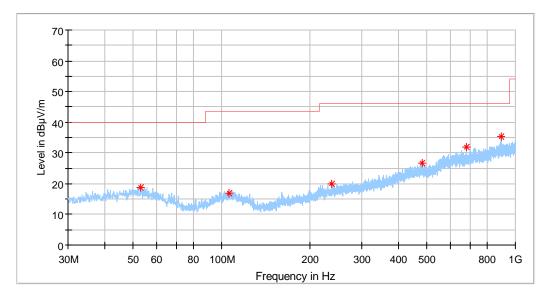


Radiated Emission

EUT: Z31915-US-RX Op Condition: Clock Mode

Test Specification: Antenna: Horizontal

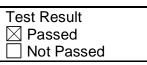


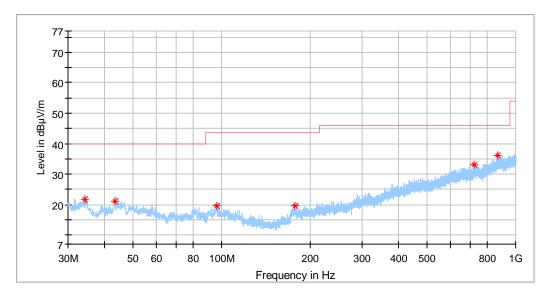


Frequency	QP	Limit	Margin	
MHz	dBµV/m	dBµV/m	dB	
52.916	18.83	40.00	-21.17	
106.326	16.93	43.50	-26.57	
236.913	19.82	46.00	-26.18	
480.868	26.79	46.00	-19.21	
681.536	31.87	46.00	-14.13	
896.876	35.32	46.00	-10.68	

Radiated Emission

EUT: Z31915-US-RX
Op Condition: Clock mode
Test Specification: Antenna: Vertical





	Frequency	QP	Limit	Margin	
_	MHz	dBμV/m	dBµV/m	dB	
_	34.365	21.78	40.00	-18.22	
	43.458	21.04	40.00	-18.96	
	96.263	19.69	43.50	-23.81	
	177.925	19.58	43.50	-23.92	
	721.913	33.19	46.00	-12.81	
	868.625	36.26	46.00	-9.74	



8 Appendix A - Photographs of EUT



































9 Appendix B - Setup Photographs of EUT



