

This report concerns	s (check one): ⊠Original Grant
Equipment : Model Name : Applicant : Address :	1506C244 Wind Speed Weather Station TX141W La Crosse Technology Ltd. 2809 Losey Blvd. S. La Crosse Wisconsin 54601 United States
Date of Test : Issued Date :	Jun. 25, 2015 Jun. 25, 2015~ Jul. 06, 2015 Jul. 07, 2015 BTL Inc.
Testing Engineer	: David Mao (David Mao)
Technical Manager	: Leo Hung)
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Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with the standards traceable to National Measurement Laboratory (**NML**) of **R.O.C**., or National Institute of Standards and Technology (**NIST**) of **U.S.A**.

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Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

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REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FICP-1-1506C244	Original Issue.	Jul. 07, 2015



1. CERTIFICATION

Trade Name Model Name Applicant	 Wind Speed Weather Station LA CROSSE TX141W La Crosse Technology Ltd. La Crosse Technology Ltd. 2809 Losey Blvd. S. La Crosse Wisconsin 54601 United States La Crosse Technology Ltd. 2809 Losey Blvd. S. La Crosse Wisconsin 54601 United States Jun. 25, 2015~ Jul. 06, 2015 ENGINEERING SAMPLE
Standard(s)	 FCC Part15, Subpart C(15.231)/ ANSI C63.10-2013/ANSI C63.4-2014 Canada RSS-210 ISSUE 8 DEC 2010

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FICP-1-1506C244) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of TAF according to the ISO-17025 quality assessment standard and technical standard(s).

2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

FCC Part15, Subpart C (15.231); Canada RSS-210 ISSUE 8					
Standard(s) Section		Test Item	Judgment	Remark	
RSS-Gen 8.8	15.207	Conducted Emission	N/A	Note(1) Note(2)	
RSS-210 A1.1.5	15.209& 15.231(e)	Radiated Spurious Emission	PASS		
RSS-210 A1.1.3	15.231(c)	20dB Occupied Bandwidth Measurement	PASS		
RSS-210 A1.1.5	15.231(e)	Timing Testing	PASS		

NOTE:

(1)" N/A" denotes test is not applicable to this device.

(2) EUT is used new battery.



2.1 TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No.3, Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China. BTL's test firm number for FCC319330 BTL's test firm number for IC 4428B-1

2.2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. The measurement instrumentation uncertainty considerations contained in CISPR 16-4-2.

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on astandard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%.

A. Radiated Measurement :

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)	Note
		9KHz~30MHz	V	3.79	
		9KHz~30MHz	Н	3.57	
		30MHz~200MHz	V	3.82	
		30MHz~200MHz	Н	3.60	
DG-CB03	CISPR	200MHz~1,000MHz	V	3.86	
		200MHz~1,000MHz	Н	3.94	
		1GHz~18GHz	V	3.12	
		1GHz~18GHz	Н	3.68	
		18GHz~40GHz	V	4.15	
		18GHz~40GHz	Н	4.14	

Note: Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	Wind Speed Weather Station				
Trade Name	La Crosse	a Crosse			
Model Name	TX141W	TX141W			
Model Difference	N/A				
	Product Type	Low Power Communication Device			
	Operation Frequency	433.92 MHz			
Draduat Depariation	Modulation Type	ASK			
Product Description	Number Of Channel	1CH, please see note 2.			
	Antenna Designation	Internal antenna			
	Field Strength	71.68dBuV/m (AV Max.)			
PowerSource	Supplied from 2*AAA battery.				
Power Rating	DC 3V				

Note:

- 1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- 2. Channel List:

Channel	Frequency (MHz)
01	433.92

3.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	TX CH 433.92MHz

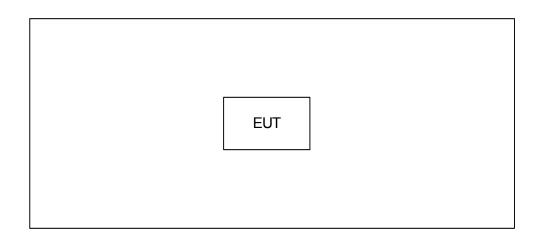
For Radiated Test			
Final Test Mode Description			
Mode 1	TX CH 433.92MHz		

Note:

- (1) The EUT is used new battery.
- (2) The EUT is considered a portable unit; it was pre-tested on the positioned of each 3 axis. The worst case was found positioned on Z-plane. Therefore only the test data of this Z-plane was used for radiated emission measurement test.



3.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



3.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.	Note
-	-	-	-	-	-	

Item	Shielded Type	Ferrite Core	Length	Note
-	-	-	-	-

Note:

(1) For detachable type I/O cable should be specified the length in m in ^[]Length ^[] column.

4.EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 POWER LINE CONDUCTED EMISSIONLIMITS (Frequency Range 150KHz-30MHz)

Frequency of Emission (MHz)	Conducted Limit (dBµV)	
Frequency of Emission (MHz)	Quasi-peak	Average
0.15 -0.5	66 to 56*	56 to 46*
0.50 -5.0	56	46
5.0 -30.0	60	50

Note:

(1) The limit of " * " decreases with the logarithm of the frequency

(2) The test result calculated as following:

Measurement Value = Reading Level + Correct Factor

Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor(if use) Margin Level = Measurement Value - Limit Value

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

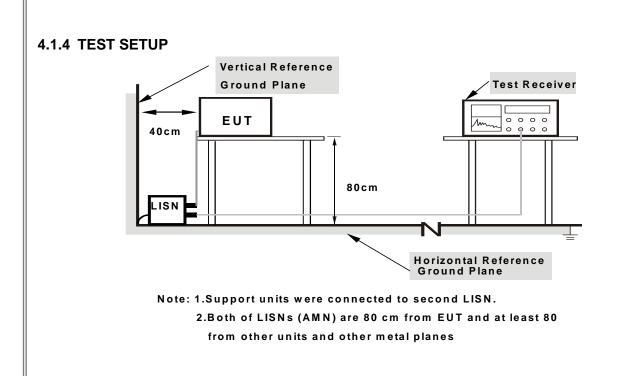
4.1.2 TEST PROCEDURE

- a. The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the groundplane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.1.3 DEVIATION FROM TEST STANDARD

No deviation





4.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

4.1.6 EUT TEST CONDITIONS

Temperature: N/A° C Relative Humidity: N/A %

4.1.7 TEST RESULTS

Please refer to the Attachment A.

Remark:

- (1) All readings are QP Mode value unless otherwise stated AVG in column of Note. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform. In this case, a "*" marked in AVG Mode column of Interference Voltage Measured.
- (2) Measuring frequency range from 150KHz to 30MHz.
- (3) " N/A" denotes test is not applicable to this device.

4.2 RADIATED EMISSION MEASUREMENT 4.2.1 FIELD STRENGTH OF FUNDAMENTAL EMISSIONS MEASUREMENT LIMIT

Frequency Band (MHz)	Fundamental EmissionsLimit(uV/m) at 3m
40.66-40.70	1000
70-130	500
130-174	500-1500(**)
174-260	1500
260-470	1500-5000(**)
Above 470	5000

**1. Linear interpolations, the formulas for calculating the maximum permitted fundamental field strengths are as follows:

(1) For the band 130 - 174 MHz, μV/m at 3 meters = 22.72727×(operating frequency, MHz) - 2454.545;

(2) For the band 260 - 470 MHz, $\mu\text{V/m}$ at 3 meters =16.6667×(operating frequency, MHz) - 2833.3333.

So the field strength of emission limits has been calculated in below table.

Carrier Frequency (MHz)	Fundamental EmissionsLimit(dBuV/m) at 3m
433.92 MHz	72.87 (Average)
433.92 MHz	92.87 (Peak)

4.2.2 MEASURING INSTRUMENTS AND SETTING (FIELD STRENGTH OF FUNDAMENTAL EMISSIONS)

Receiver Parameter	Setting
Attenuation	Auto
Center Frequency	Fundamental Frequency
RBW	120 kHz
Detector	Peak / Average

4.2.3 RADIATED EMISSIONS MEASUREMENT

Devices complying with 47 CFR FCC part 15 subpart C, section 15.231(e). The field strength of emissions from intentional radiators at 3 meters operated under this Section

shall not exceed the following	J:
--------------------------------	----

Frequency Band (MHz)	Spurious EmissionsLimit(uV/m) at 3m
40.66-40.70	100
70-130	50
130-174	50-150(**)
174-260	150
260-470	150-500(**)
Above 470	500

**1. Linear interpolations, the formulas for calculating the maximum permitted fundamental field strengths are as follows:

(1) For the band 130 - 174 MHz, μ V/m at 3 meters = 22.72727×(operating frequency, MHz) 2454.545;

(2) For the band 260 - 470 MHz, μ V/m at 3 meters = 16.6667×(operating frequency, MHz) = 2833.3333.

(3) The maximum permitted unwanted emissions level is 20 dB below the maximum permitted fundamental level. In addition field strength of any emissions which appear inside of the restriction band shall not exceed the general radiated emissions limits in Section 15.209(a).

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~90kHz for PK/AVG detector
Start ~ Stop Frequency	90kHz~110kHz for QP detector
Start ~ Stop Frequency	110kHz~490kHz for PK/AVG detector
Start ~ Stop Frequency	490kHz~30MHz for QP detector
Start ~ Stop Frequency	30MHz~1000MHz for QP detector



Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1MHz / 1MHz for Peak, AV Mode with Dwell time

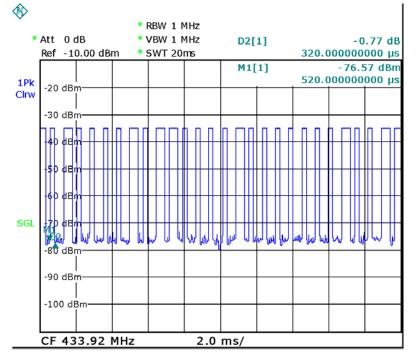
4.2.4 DWELL TIME OF PERIODIC OPERATION MEASUREMENT

Duty Cycle = (N1*L1+N2*L2+...+Nn-1*Ln-1+Nn*Ln)/100 or T

Duty Cycle = (0.32*19+0.56*9)/100msec=55.6%

Average Reading =Peak Reading (dBuV/m)+ 20log (Duty cycle)

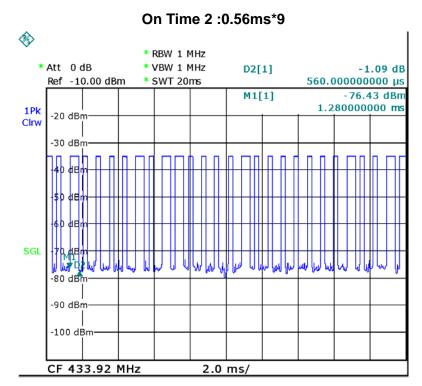
Average Reading = Peak value + 20log(Duty cycle) , AV=PK-5.10



On Time 1 : 0.32ms*19

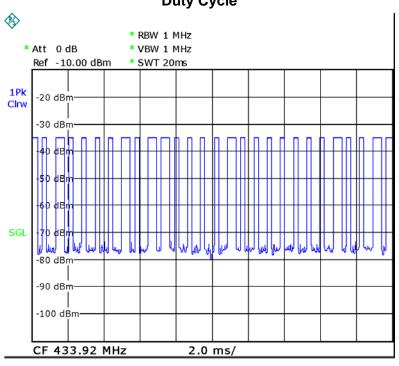
Date: 21.SEP.2015 08:14:54





Date: 21.SEP.2015 08:15:17

Date: 21.SEP.2015 08:14:21



Duty Cycle



4.2.5 TEST PROCEDURE

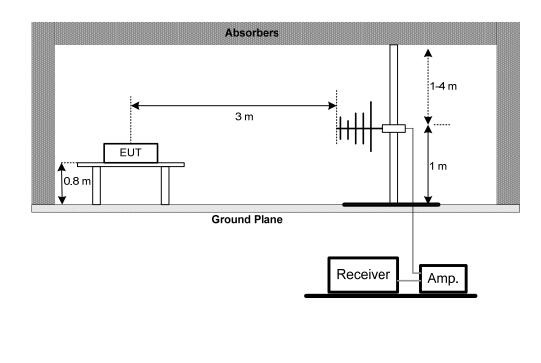
- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 or 1.5 meters above the ground at a 3 m semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 or 1.5 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item -EUT Test Photos.

4.2.6 DEVIATION FROM TEST STANDARD

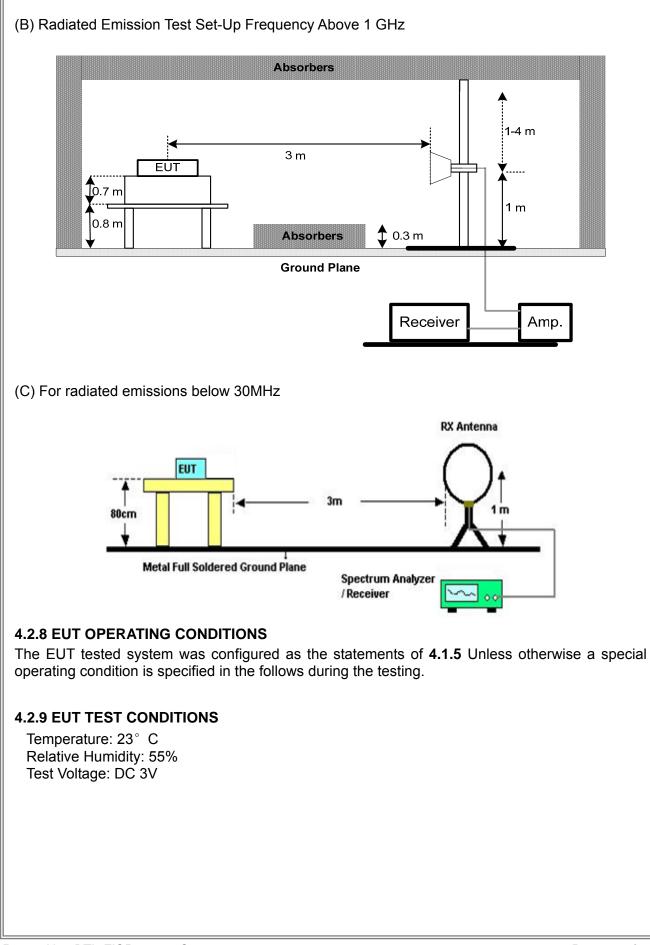
No deviation

4.2.7 TEST SETUP

(A) Radiated Emission Test Set-Up Frequency Below 1 GHz









4.3.0 TEST RESULTS (9KHz to 30MHz)

Please refer to the Attachment B.

Remark:

- (1) The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.
- (2) Distance extrapolation factor = 40 log (specific distance / test distance) (dB);.
- (3) Limit line = specific limits (dBuV) + distance extrapolation factor..

4.3.1 TEST RESULTS (30MHz to 1000MHz)

Please refer to the Attachment C.

Remark:

- (1) All readings are Peak unless otherwise stated QP in column of "Note". Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission
- (3) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (4) EUT Orthogonal Axis: "X" - denotes Laid on Table; "Y" - denotes Vertical Stand; "Z" - denotes Side Stand
- (5) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

4.3.2 TEST RESULTS (Above 1000 MHz)

Please refer to the Attachment D.

Remark:

- (1) All readings are Peak unless otherwise stated QP in column of "Note ... Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission
- (3) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (4) EUT Orthogonal Axis:
 "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (5) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

5. 20dB SPECTRUM BANDWIDTH MEASUREMENT

Limit

The bandwidth of the emissions shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz. So the emission bandwidth limits have been calcuated in below table.

Fundamental Frequency	20dB Bandwidth Limits (MHz)
433.92 MHz	1.0848

5.1 MEASURING INSTRUMENTS AND SETTING

Please refer to section 5 in this report. The following table is the setting of the Spectrum Analyzer.

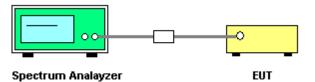
Spectrum	Setting
Parameters	Setting
Attenuation	Auto
Span Frequency	> 20dB Bandwidth
RB	10 kHz
VB	10 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

5.2 TEST PROCEDURES

1. The transmitter output (antenna port) was connected to the spectrum analyser in peak hold mode.

- 2. The resolution bandwidth of 10 kHz and the video bandwidth of 10 kHz were used.
- 3. Measured the spectrum width with power higher than 20dB below carrier.

5.3 TEST SETUP LAYOUT



5.4 TEST DEVIATION

There is no deviation with the original standard.



5.5 EUT OPERATION DURING TEST

The EUT was programmed to be in continuously transmitting mode.

5.6 EUT TEST CONDITIONS

Temperature: 23° C Relative Humidity: 55% Test Voltage: DC 3V

5.7 TESTRESULTS

Please refer to the Attachment E.

•

6. TIMING TESTING

Limit

In addition, devices operated under the provisions of this paragraph shall be provided with a means for automatically limiting operation so that the duration of each transmission shall not be greater than one second and the silent period between transmissions shall be at least 30 times the duration of the transmission but in no case less than 10 seconds.

6.1 MEASURING INSTRUMENTS AND SETTING

Please refer to section 6 in this report. The following table is the setting of the

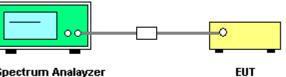
Spectrum Analyzer.

Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	Zero Span
RB	1MHz
VB	1MHz
Detector	Peak
Trace	Max Hold
Sweep Time	100 seconds

6.2 TEST PROCEDURES

- 1. The transmitter output (antenna port) was connected to the spectrum analyser in peak hold mode.
- 2. The resolution bandwidth of 1MHz and the video bandwidth of 1MHz were used.

6.3 TEST SETUP LAYOUT



Spectrum Analayzer

6.4 TEST DEVIATION

There is no deviation with the original standard.

6.5 EUT OPERATION DURING TEST

The EUT was programmed to be in normal mode.



6.6 EUT OPERATION DURING TEST

Temperature: 23° C Relative Humidity: 55% Test Voltage: DC 3V

6.7 TEST RESULTS

:

Please refer to the Attachment F.

	Radiated Emission Measurement										
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until						
1	Antenna	Schwarbeck	VULB9160	9160-3232	Mar. 28, 2016						
2	Amplifier	HP	8447D	2944A09673	Nov. 17, 2015						
3	Receiver	AGILENT	N9038A	MY52130039	Sep. 30, 2015						
4	Test Cable	emci	LMR-400(30MH z-1GHz)	C-01	Jun. 28, 2016						
5	Controller	СТ	SC100	N/A	N/A						
6	Amplifier	Amplifier Agilent 8449B		3008A02274	Mar. 28, 2016						
7	Receiver	AGILENT	N9038A	MY52130039	Aug. 23, 2015						
8	Test Cable	emci	EMC104-SM-S M-10000(1GHz - 26.5GHz)	C-68	Jun. 28, 2016						
9	Test Cable	emci	RG223(9KHz-30 MHz)	C_17	Mar. 13, 2016						
10	Controller	СТ	SC100	N/A	N/A						
11	Horn Antenna	EMCO	3115	9605-4803	Mar. 28, 2016						
12	Active Loop Antenna	R&S	HFH2-Z2	830749/020	Mar. 28, 2016						
13	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A						

7. MEASUREMENT INSTRUMENTS LIST AND SETTING

20dB Spectrum Bandwidth Measurement

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 02, 2015
2	Test Cable	N/A	RG316	Cable4-001	Jul. 15, 2016
3	Attenuator	AGILENT	6dB	43608 46-202-1	Jul. 07, 2016

	Timing Testing										
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until						
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 02, 2015						
2	Test Cable	N/A	RG316	Cable4-001	Jul. 15, 2016						
3	Attenuator	AGILENT	6dB	43608 46-202-1	Jul. 07, 2016						

Remark: "N/A" denotes no model name, serial no. or calibration specified. All calibration period of equipment list is one year.

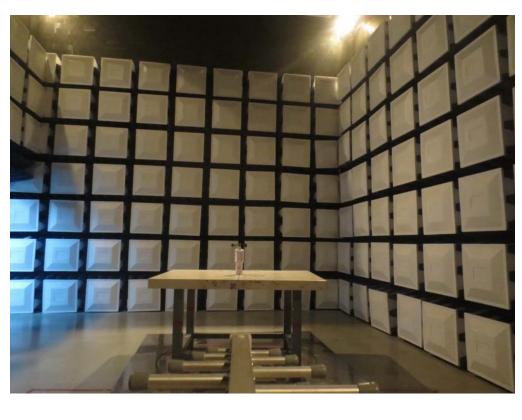






Radiated Measurement Photos

30MHz to 1000MHz







Radiated Measurement Photos

Above 1000MHz





Report No.: BTL-FICP-1-1506C244

ATTACHMENT A - CONDUCTED EMISSION

Test Mode: N/A

Note: "N/A" denotes test is not applicable to this device. EUT is used new battery.

ATTACHMENT B - RADIATED EMISSION (9KHz to 30MHz)



Test Mode:	ТХС	CH 433.92M	1Hz				
	_			1 1		1	
Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit(QP) (dBuV/m)	Margin (dB)	Note
0.0092	0°	13.31	24.98	38.29	128.30	-90.01	AVG
0.0092	0°	14.14	24.98	39.12	148.30	-109.18	PEAK
0.0218	0°	6.62	24.19	30.81	120.84	-90.03	AVG
0.0218	0°	8.11	24.19	32.30	140.84	-108.54	PEAK
0.0314	0°	3.16	23.58	26.74	117.67	-90.93	AVG
0.0314	0°	5.34	23.58	28.92	137.67	-108.75	PEAK
0.0421	0°	1.12	22.90	24.02	115.12	-91.10	AVG
0.0421	0°	2.41	22.90	25.31	135.12	-109.81	PEAK
0.4924	0°	19.27	19.82	39.09	73.76	-34.67	QP
1.7162	0°	23.53	19.53	43.06	69.54	-26.48	QP
Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit(QP) (dBuV/m)	Margin (dB)	Note
0.0093	90°	13.14	24.30	37.44	128.23	-90.79	AVG
0.0093	90°	14.74	24.30	39.04	148.23	-109.19	PEAK
0.0246	90°	7.23	24.01	31.24	119.79	-88.55	AVG
0.0246	90°	8.76	24.01	32.77	139.79	-107.02	PEAK
0.0307	90°	5.20	23.62	28.82	117.86	-89.04	AVG
0.0307	90°	6.16	23.62	29.78	137.86	-108.08	PEAK
0.0424	90°	1.31	22.88	24.19	115.06	-90.87	AVG
0.0424	90°	2.73	22.88	25.61	135.06	-109.45	PEAK
0.4912	90°	22.14	19.82	41.96	73.78	-31.82	QP
1.7136	90°	24.29	19.53	43.82	69.54	-25.72	QP

ATTACHMENT C - RADIATED EMISSION (30MHz to 1000MHz)



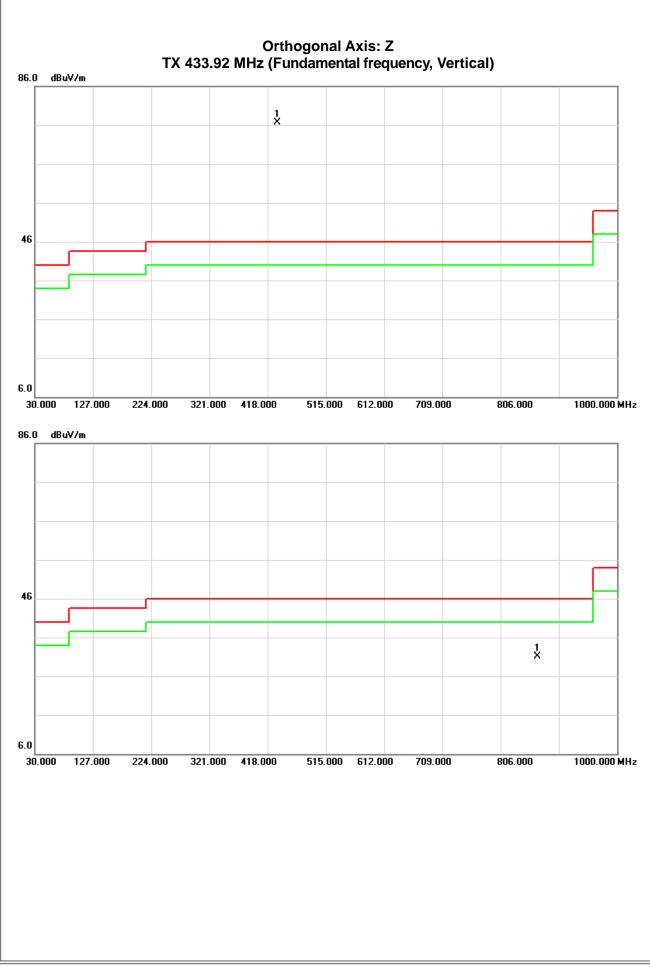
About the duty cycle correction factor calculated, please refer to the page 16~18

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Lii		
		Peak	AV		Peak	AV	Peak	AV	Result
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
433.92	V	83.13		-6.35	76.78	71.68	92.87	72.87	X/F
867.11	V	30.37		0.65	31.02	25.92	72.87	52.87	X/H

Remark:

(1) The average value of fundamental frequency is: Average = Peak value + 20log(Duty cycle), Final AV=PK-5.10







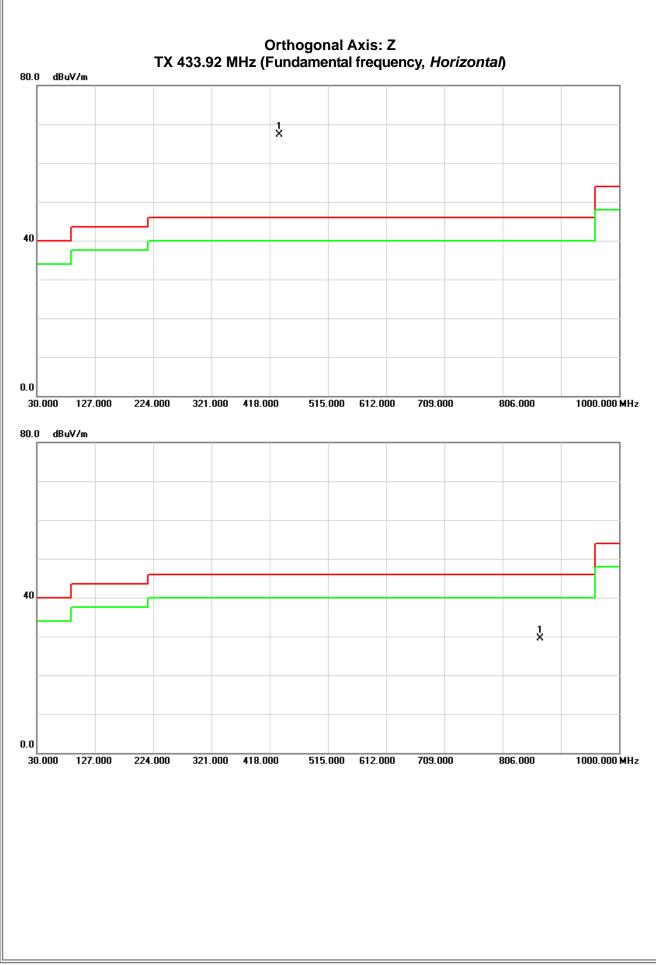
About the duty cycle correction factor calculated, please refer to the page 16~18

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Lii		
		Peak	AV		Peak	AV	Peak	AV	Result
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
433.92	Н	73.68		-6.35	67.33	62.23	92.87	72.87	X/F
868.08	Н	28.80		0.68	29.48	24.38	72.87	52.87	X/H

Remark:

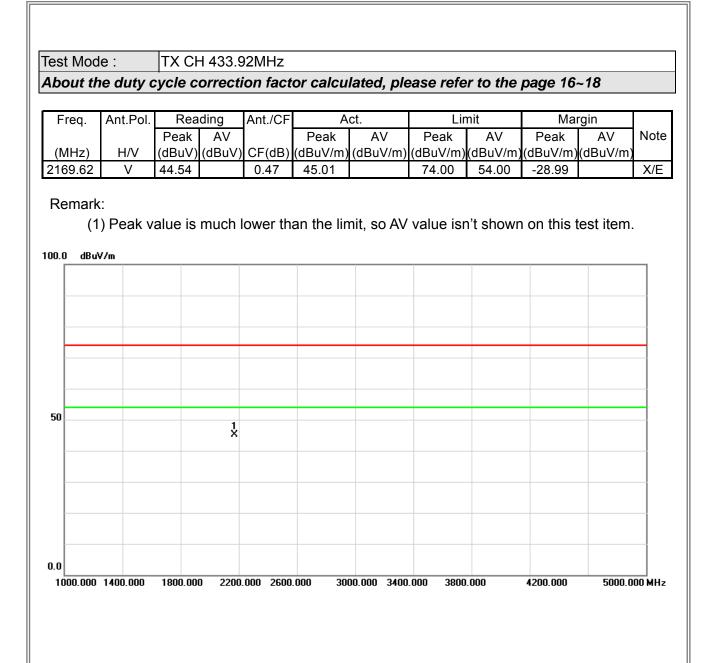
(1) The average value of fundamental frequency is: Average = Peak value + 20log(Duty cycle), Final AV= PK-5.10

3TL



ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHz)



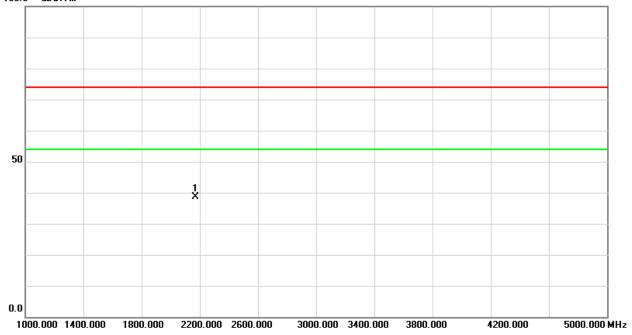




Test Mod	Test Mode : TX CH 433.92MHz											
About the duty cycle correction factor calculated, please refer to the page 16~18												
Freq.	Ant.Pol.	Rea	ding	Ant./CF	Act.		Limit		Margin			
		Peak	AV		Peak	AV	Peak	AV	Peak	AV	Note	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)		
2169.62	2169.62 H 38.12 0.47 38.59 74.00 54.00 -35.41 X/E											
Remarl	Remark:											

(1) Peak value is much lower than the limit, so AV value isn't shown on this test item.

100.0 dBuV/m



ATTACHMENT E - 20dB SPECTRUM BANDWIDTH

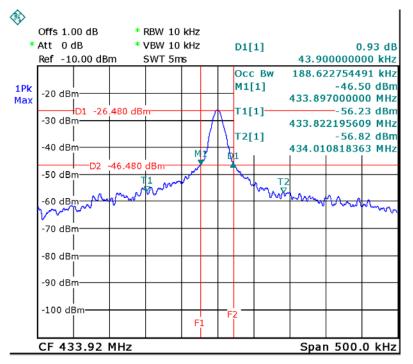


Test Mode:

TX CH 433.92MHz

Frequency	20dB Bandwidth	99% Occupied	20 dB BW
(MHz)	(kHz)	BW(kHz)	Limits(MHz)
433.92	43.90	188.62	1.0848





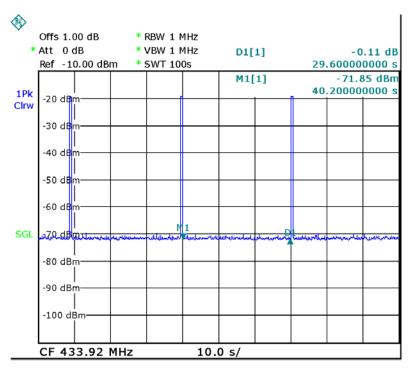
Date: 2.JUL.2015 08:38:30

ATTACHMENT F - TIMING TESTING

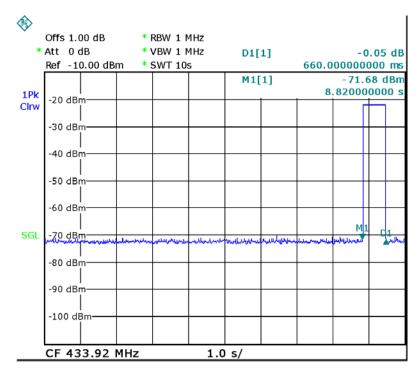


Test Mode: TX CH 433.92MHz

		•			
Test Channel	Frequency	Silent period	Silent period limit	Result	
	(MHz)	(S)	(\$)		
CH01	433.92	29.6000	>10	PASS	
Silent period =	29.6000	>30*	0.6600	=	19.8000



Date: 30.JUN.2015 08:26:50



Date: 30.JUN.2015 08:28:46