FCC CERTIFICATION
On Behalf of
La Crosse Technology

Temperature Transmitter
Model No.: TX38U-IT

FCC ID: OMO-M-01

Prepared for	:	La Crosse Technology
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Prepared by	:	ACCURATE TECHNOLOGY CO. LTD
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Report Number	:	ATE20091314
Date of Test	:	July 17 - August 4, 2009
Date of Report	:	August 5, 2009

TABLE OF CONTENTS

Description Page

Test Report Certification

1. GENERAL INFORMATION 4

1.1. Description of Device (EUT) 4
1.2. Description of Test Facility 4
1.3. Measurement Uncertainty 5

2. MEASURING DEVICE AND TEST EQUIPMENT 6

3. SUMMARY OF TEST RESULTS 7

4. FUNDAMENTAL AND HARMONICS RADIATED EMISSION FOR SECTION 15.249(A) 8

4.1. Block Diagram of Test Setup 8
4.2. The Emission Limit 9
4.3. Configuration of EUT on Measurement 9
4.4. Operating Condition of EUT 9
4.5. Test Procedure 10
4.6. The Field Strength of Radiation Emission Measurement Results 11

5. SPURIOUS RADIATED EMISSION FOR SECTION 15.249(D) 14

5.1. Block Diagram of Test Setup 14
5.2. The Emission Limit For Section 15.249(d) 15
5.3. EUT Configuration on Measurement 15
5.4. Operating Condition of EUT 15
5.5. Test Procedure 16
5.6. The Emission Measurement Result 17

6. BAND EDGES 20

6.1. The Requirement 20
6.2. EUT Configuration on Measurement 20
6.3. Operating Condition of EUT 20
6.4. Test Procedure 20
6.5. The Measurement Result 21

7. ANTENNA REQUIREMENT 23

7.1. The Requirement 23
7.2. Antenna Construction 23

APPENDIX I (TEST CURVES) (16 pages)

Test Report Certification

Applicant	:	La Crosse Technology
Manufacturer	:	Golden ESL Instrument (S.Z.) Co. Ltd.
EUT Description	:	Temperature Transmitter
		(A) MODEL NO.: TX38U-IT
		(B) SERIAL NO.: N/A
		(C) POWER SUPPLY: 3V DC ("AAA" batteries 2×)

Measurement Procedure Used:

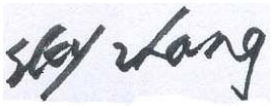
FCC Rules and Regulations Part 15 Subpart C Section 15.249
ANSI C63.4: 2003

The device described above is tested by ACCURATE TECHNOLOGY CO. LTD to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C Section15.249 limits. The measurement results are contained in this test report and ACCURATE TECHNOLOGY CO. LTD is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of ACCURATE TECHNOLOGY CO. LTD.

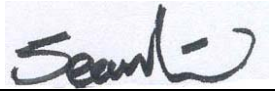
Date of Test : July 17 - August 4, 2009

Prepared by :



(Engineer)

Approved & Authorized Signer :



(Manager)

1. GENERAL INFORMATION

1.1.Description of Device (EUT)

EUT	:	Temperature Transmitter
Model Number	:	TX38U-IT
Power Supply	:	3V DC (“AAA” batteries 2×)
Operate Frequency	:	Channel 1: 910.18MHz Channel 2: 915.00MHz Channel 3: 919.98MHz
Channel Number	:	3 Channels
Applicant	:	La Crosse Technology
Address	:	2809 Losey Blvd. So. La Crosse WI 54601, USA
Manufacturer	:	Golden ESL Instrument (S.Z.) Co. Ltd.
Address	:	Fu Yuan #2 Manufactory Building, 45 Area of Baoan District, ShenZhen, China
Date of sample received	:	July 15, 2009
Date of Test	:	July 17 - August 4, 2009

1.2.Description of Test Facility

EMC Lab	:	Accredited by TUV Rheinland Shenzhen Listed by FCC The Registration Number is 752051 Listed by Industry Canada The Registration Number is 5077A-2 Accredited by China National Accreditation Committee for Laboratories The Certificate Registration Number is L3193
Name of Firm	:	ACCURATE TECHNOLOGY CO. LTD
Site Location	:	F1, Bldg. A, Changyuan New Material Port, Keyuan Rd. Science & Industry Park, Nanshan, Shenzhen, Guangdong P.R. China

1.3.Measurement Uncertainty

Conducted Emission Expanded Uncertainty	=	2.23dB, k=2
Radiated emission expanded uncertainty (9kHz-30MHz)	=	3.08dB, k=2
Radiated emission expanded uncertainty (30MHz-1000MHz)	=	4.42dB, k=2
Radiated emission expanded uncertainty (Above 1GHz)	=	4.06dB, k=2

2. MEASURING DEVICE AND TEST EQUIPMENT

Table 1: List of Test and Measurement Equipment

Kind of equipment	Manufacturer	Type	S/N	Calibrated until
EMI Test Receiver	Rohde&Schwarz	ESCS30	100307	03.28.2010
EMI Test Receiver	Rohde&Schwarz	ESPI3	101526/003	03.28.2010
Spectrum Analyzer	Agilent	E7405A	MY45115511	03.28.2010
Pre-Amplifier	Rohde&Schwarz	CBLU1183540-01	3791	03.30.2010
Loop Antenna	Schwarzbeck	FMZB1516	1516131	03.28.2010
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	03.28.2010
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	12.19.2009
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	10.09.2009
LISN	Rohde&Schwarz	ESH3-Z5	100305	03.28.2010
LISN	Schwarzbeck	NSLK8126	8126431	03.28.2010

3. SUMMARY OF TEST RESULTS

FCC Rules	**Description of Test**	**Result**
Section 15.207	Conducted Emission	N/A
Section 15.249(a)	Fundamental and Harmonics Radiated Emission	Compliant
Section 15.249(d)	Spurious Radiated Emission	Compliant
Section 15.249(d)	Band Edge	Compliant

Remark: “N/A” means “Not applicable”.

4. FUNDAMENTAL AND HARMONICS RADIATED EMISSION FOR SECTION 15.249(A)

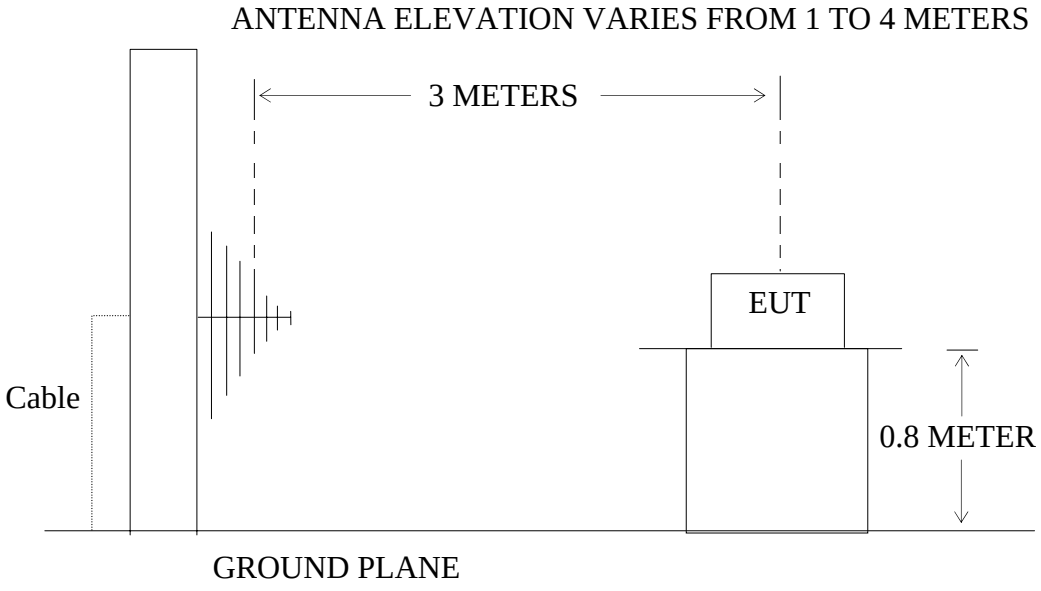
4.1.Block Diagram of Test Setup

4.1.1.Block diagram of connection between the EUT and simulators

EUT

(EUT: Temperature Transmitter)

4.1.2.Semi-Anechoic Chamber Test Setup Diagram



(EUT: Temperature Transmitter)

4.2.The Emission Limit

4.2.1.For intentional radiators, According to section 15.249(a), Operation within the frequency band of 902 to 928MHz, The fundamental field strength shall not exceed 94 dBμV/m and the harmonics shall not exceed 54 dBμV/m.

Fundamental Frequency	Field Strength of Fundamental (millivolts/meter)	Field Strength of harmonics (microvolts/meter)
902-928MHz	50	500
2400-2483.5MHz	50	500
5725-5875MHz	50	500
24.0-24.25GHz	250	2500

4.2.2.According to section 15.249(e), as shown in section 15.35(b), the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

4.3.Configuration of EUT on Measurement

The following equipment are installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

4.3.1. Temperature Transmitter (EUT)

Model Number : TX38U-IT
Serial Number : N/A
Manufacturer : Golden ESL Instrument (S.Z.) Co. Ltd.

4.4.Operating Condition of EUT

4.4.1.Setup the EUT and simulator as shown as Section 4.1.

4.4.2.Turn on the power of all equipment.

4.4.3. Let the EUT work in TX modes measure it. The transmit frequency are 910.18MHz, 915.00MHz, 919.98MHz.

4.5. Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4: 2003 on radiated emission measurement.

The bandwidth of test receiver is set at 120kHz in 30-1000MHz. and set at 1MHz in above 1000MHz.

4.6.The Field Strength of Radiation Emission Measurement Results

PASS.

Date of Test:	July 17, 2009	Temperature:	25°C
EUT:	Temperature Transmitter	Humidity:	50%
Model No.:	TX38U-IT	Power Supply:	3V DC (“AAA” batteries 2×)
Test Mode:	TX Channel 1: 910.18MHz	Test Engineer:	Joe

Fundamental Radiated Emissions

Frequency	Reading(dBμV/m)		Factor(dB)	Result(dBμV/m)		Limit(dBμV/m)		Margin(dB)		Polarization
(MHz)	AV	PEAK	Corr.	AV	PEAK	AV	PEAK	AV	PEAK	
910.1056	60.04	62.66	28.82	88.86	91.48	94	114	-5.14	-22.52	Vertical
910.1056	41.56	44.08	28.82	70.38	72.90	94	114	-23.62	-41.10	Horizontal

Harmonics Radiated Emissions

Frequency	Reading(dBμV/m)		Factor(dB)	Result(dBμV/m)		Limit(dBμV/m)		Margin(dB)		Polarization
(MHz)	AV	PEAK	Corr.	AV	PEAK	AV	PEAK	AV	PEAK	
1820.214	59.06	61.67	-9.84	49.22	51.83	54	74	-4.78	-22.17	Vertical
2730.322	47.72	50.26	-6.20	41.52	44.06	54	74	-12.48	-29.94	Vertical
2730.322	47.00	49.56	-6.20	40.80	43.36	54	74	-13.20	-30.64	Horizontal

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

   Result = Reading + Corrected Factor

   Where Corrected Factor = Antenna Factor + Cable Loss + High Pass Filter Loss – Amplifier Gain
3. The spectral diagrams in appendix I display the measurement of peak values.

Date of Test:	July 17, 2009	Temperature:	25°C
EUT:	Temperature Transmitter	Humidity:	50%
Model No.:	TX38U-IT	Power Supply:	3V DC (“AAA” batteries 2×)
Test Mode:	TX Channel 2: 915.00MHz	Test Engineer:	Joe

Fundamental Radiated Emissions

Frequency	Reading(dBμV/m)		Factor(dB)	Result(dBμV/m)		Limit(dBμV/m)		Margin(dB)		Polarization
(MHz)	AV	PEAK	Corr.	AV	PEAK	AV	PEAK	AV	PEAK	
914.9258	59.64	62.29	28.92	88.56	91.21	94	114	-5.44	-22.79	Vertical
914.9258	41.35	43.97	28.92	70.27	72.89	94	114	-23.73	-41.11	Horizontal

Harmonics Radiated Emissions

Frequency	Reading(dBμV/m)		Factor(dB)	Result(dBμV/m)		Limit(dBμV/m)		Margin(dB)		Polarization
(MHz)	AV	PEAK	Corr.	AV	PEAK	AV	PEAK	AV	PEAK	
1829.865	59.70	62.21	-9.73	49.97	52.48	54	74	-4.03	-21.52	Vertical
2744.802	48.02	50.64	-6.12	41.90	44.52	54	74	-12.10	-29.48	Vertical
2744.802	46.82	49.39	-6.12	40.70	43.27	54	74	-13.30	-30.73	Horizontal

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

   Result = Reading + Corrected Factor

   Where Corrected Factor = Antenna Factor + Cable Loss + High Pass Filter Loss – Amplifier Gain
3. The spectral diagrams in appendix I display the measurement of peak values.

Date of Test:	July 17, 2009	Temperature:	25°C
EUT:	Temperature Transmitter	Humidity:	50%
Model No.:	TX38U-IT	Power Supply:	3V DC (“AAA” batteries 2×)
Test Mode:	TX Channel 3: 919.98MHz	Test Engineer:	Joe

Fundamental Radiated Emissions

Frequency	Reading(dBμV/m)		Factor(dB)	Result(dBμV/m)		Limit(dBμV/m)		Margin(dB)		Polarization
(MHz)	AV	PEAK	Corr.	AV	PEAK	AV	PEAK	AV	PEAK	
919.9075	59.67	62.73	29.03	88.70	91.76	94	114	-5.30	-22.24	Vertical
919.9075	41.97	44.51	29.03	71.00	73.54	94	114	-23.00	-40.46	Horizontal

Harmonics Radiated Emissions

Frequency	Reading(dBμV/m)		Factor(dB)	Result(dBμV/m)		Limit(dBμV/m)		Margin(dB)		Polarization
(MHz)	AV	PEAK	Corr.	AV	PEAK	AV	PEAK	AV	PEAK	
1839.836	57.63	60.24	-9.63	48.00	50.61	54	74	-6.00	-23.39	Vertical
2759.746	47.56	50.18	-6.09	41.47	44.09	54	74	-12.53	-29.91	Vertical
2759.756	48.58	51.13	-6.09	42.49	45.04	54	74	-11.51	-28.96	Horizontal

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

   Result = Reading + Corrected Factor

   Where Corrected Factor = Antenna Factor + Cable Loss + High Pass Filter Loss – Amplifier Gain
3. The spectral diagrams in appendix I display the measurement of peak values.

5. SPURIOUS RADIATED EMISSION FOR SECTION 15.249(D)

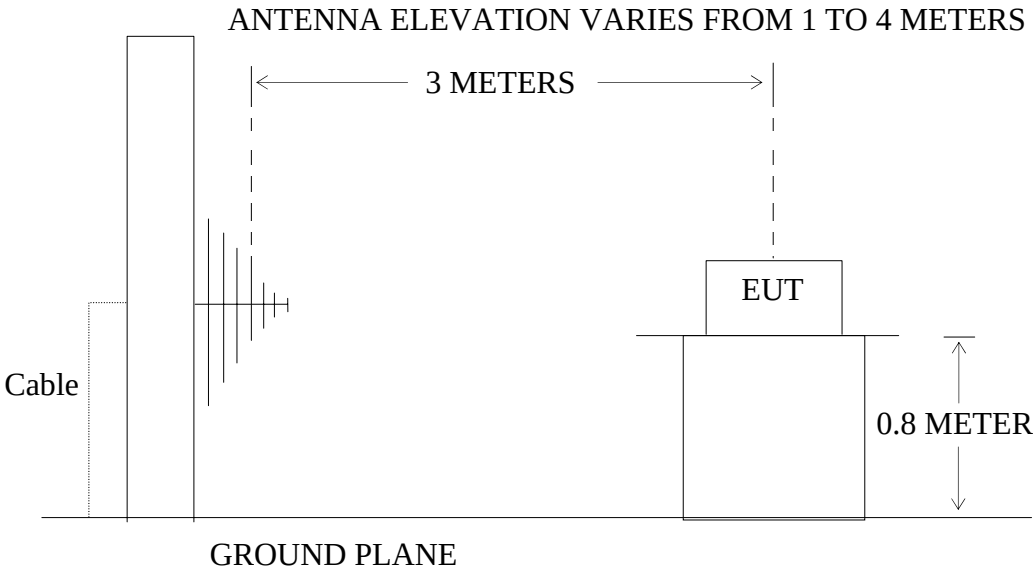
5.1.Block Diagram of Test Setup

5.1.1.Block diagram of connection between the EUT and simulators

EUT

(EUT: Temperature Transmitter)

5.1.2.Semi-Anechoic Chamber Test Setup Diagram



(EUT: Temperature Transmitter)

5.2.The Emission Limit For Section 15.249(d)

5.2.1.Emission radiated outside of the specified frequency bands, except for harmonics, shall be comply with the general radiated emission limits in Section 15.209.

Radiation Emission Measurement Limits According to Section 15.209

Frequency (MHz)	Limit		
	Field Strength of Quasi-peak Value (microvolts/m)	Field Strength of Quasi-peak Value (dBμV/m)	The final measurement in band 9-90kHz, 110-490kHz and above 1000MHz is performed with Average detector. Except those frequency bands mention above, the final measurement for frequencies below 1000MHz is performed with Quasi Peak detector.
30 - 88	100	40	
88 - 216	150	43.5	
216 - 960	200	46	
Above 960	500	54	

5.3.EUT Configuration on Measurement

The following equipment are installed on the Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

5.3.1. Temperature Transmitter (EUT)

Model Number : TX38U-IT
Serial Number : N/A
Manufacturer : Golden ESL Instrument (S.Z.) Co. Ltd.

5.4.Operating Condition of EUT

5.4.1.Setup the EUT and simulator as shown as Section 5.1.

5.4.2.Turn on the power of all equipment.

5.4.3. Let the EUT work in TX modes measure it. The transmit frequency are 910.18MHz, 915.00MHz, 919.98MHz.

5.5. Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4: 2003 on radiated emission measurement.

The bandwidth of test receiver is set at 120kHz in 30-1000MHz. and set at 1MHz in above 1000MHz.

The frequency range from 30MHz to 10000MHz is checked.

The final measurement in band 9-90kHz, 110-490kHz and above 1000MHz is performed with Average detector. Except those frequency bands mention above, the final measurement for frequencies below 1000MHz is performed with Quasi Peak detector.

5.6. The Emission Measurement Result

PASS.

Date of Test:	July 17, 2009	Temperature:	25°C
EUT:	Temperature Transmitter	Humidity:	50%
Model No.:	TX38U-IT	Power Supply:	3V DC ("AAA" batteries 2×)
Test Mode:	TX Channel 1: 910.18MHz	Test Engineer:	Joe

Frequency (MHz)	Reading (dBμV/m)	Factor(dB) Corr.	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
-	-	-	-	-	-	Vertical
-	-	-	-	-	-	Horizontal

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

   Result = Reading + Corrected Factor

   Where Corrected Factor = Antenna Factor + Cable Loss + High Pass Filter Loss – Amplifier Gain
3. The spectral diagrams in appendix I display the measurement of peak values.

Date of Test:	July 17, 2009	Temperature:	25°C
EUT:	Temperature Transmitter	Humidity:	50%
Model No.:	TX38U-IT	Power Supply:	3V DC (“AAA” batteries 2×)
Test Mode:	TX Channel 2: 915.00MHz	Test Engineer:	Joe

Frequency (MHz)	Reading (dBμV/m)	Factor(dB) Corr.	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
-	-	-	-	-	-	Vertical
-	-	-	-	-	-	Horizontal

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

   Result = Reading + Corrected Factor

   Where Corrected Factor = Antenna Factor + Cable Loss + High Pass Filter Loss – Amplifier Gain
3. The spectral diagrams in appendix I display the measurement of peak values.

Date of Test:	July 17, 2009	Temperature:	25°C
EUT:	Temperature Transmitter	Humidity:	50%
Model No.:	TX38U-IT	Power Supply:	3V DC ("AAA" batteries 2×)
Test Mode:	TX Channel 3: 919.98MHz	Test Engineer:	Joe

Frequency (MHz)	Reading (dBμV/m)	Factor(dB) Corr.	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
-	-	-	-	-	-	Vertical
-	-	-	-	-	-	Horizontal

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

   Result = Reading + Corrected Factor

   Where Corrected Factor = Antenna Factor + Cable Loss + High Pass Filter Loss – Amplifier Gain
3. The spectral diagrams in appendix I display the measurement of peak values.

6. BAND EDGES

6.1.The Requirement

6.1.1.Band Edge from 902MHz to 928MHz. Emission radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

6.2.EUT Configuration on Measurement

The following equipment are installed on the emission measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

6.2.1. Temperature Transmitter (EUT)

Model Number	**:**	TX38U-IT
Serial Number	**:**	N/A
Manufacturer	**:**	Golden ESL Instrument (S.Z.) Co. Ltd.

6.3.Operating Condition of EUT

6.3.1.Setup the EUT and simulator as shown as Section 4.1.

6.3.2.Turn on the power of all equipment.

6.3.3. Let the EUT work in TX modes measure it. The transmit frequency are 910.18MHz, 915.00MHz, 919.98MHz. We select 910.18MHz, 919.98MHz TX frequency to transmit.

6.4.Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4: 2003 on radiated emission measurement.

The bandwidth of test receiver is set at 120kHz in 30-1000MHz. and set at 1MHz in above 1000MHz.

6.5. The Measurement Result

Pass.

Date of Test:	August 4, 2009	Temperature:	25°C
EUT:	Temperature Transmitter	Humidity:	50%
Model No.:	TX38U-IT	Power Supply:	3V DC ("AAA" batteries 2×)
Test Mode:	TX Channel 1: 910.18MHz	Test Engineer:	Joe

Frequency (MHz)	Reading (dBμV/m)	Factor(dB) Corr.	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
-	-	-	-	-	-	Vertical
-	-	-	-	-	-	Horizontal

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

   Result = Reading + Corrected Factor

   Where Corrected Factor = Antenna Factor + Cable Loss + High Pass Filter Loss – Amplifier Gain
3. The spectral diagrams in appendix I display the measurement of peak values.

Date of Test:	August 4, 2009	Temperature:	25°C
EUT:	Temperature Transmitter	Humidity:	50%
Model No.:	TX38U-IT	Power Supply:	3V DC (“AAA” batteries 2×)
Test Mode:	TX Channel 3: 919.98MHz	Test Engineer:	Joe

Frequency (MHz)	Reading (dBμV/m)	Factor(dB) Corr.	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
-	-	-	-	-	-	Vertical
-	-	-	-	-	-	Horizontal

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

   Result = Reading + Corrected Factor

   Where Corrected Factor = Antenna Factor + Cable Loss + High Pass Filter Loss – Amplifier Gain
3. The spectral diagrams in appendix I display the measurement of peak values.

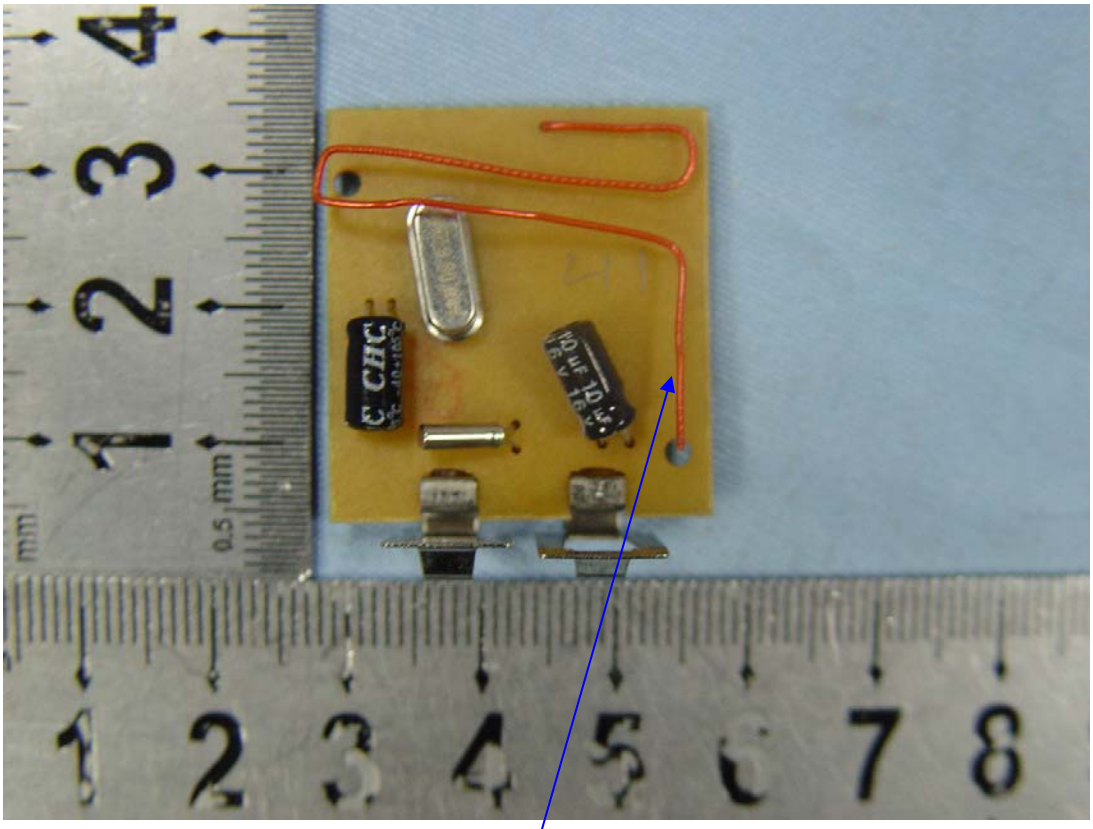
7. ANTENNA REQUIREMENT

7.1. The Requirement

7.1.1. According to 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.

7.2. Antenna Construction

Antenna is formed by a short copper wire soldered on the PCB, no consideration of replacement.



APPENDIX I
(Test Curves)

ACCURATE TECHNOLOGY CO., LTD.
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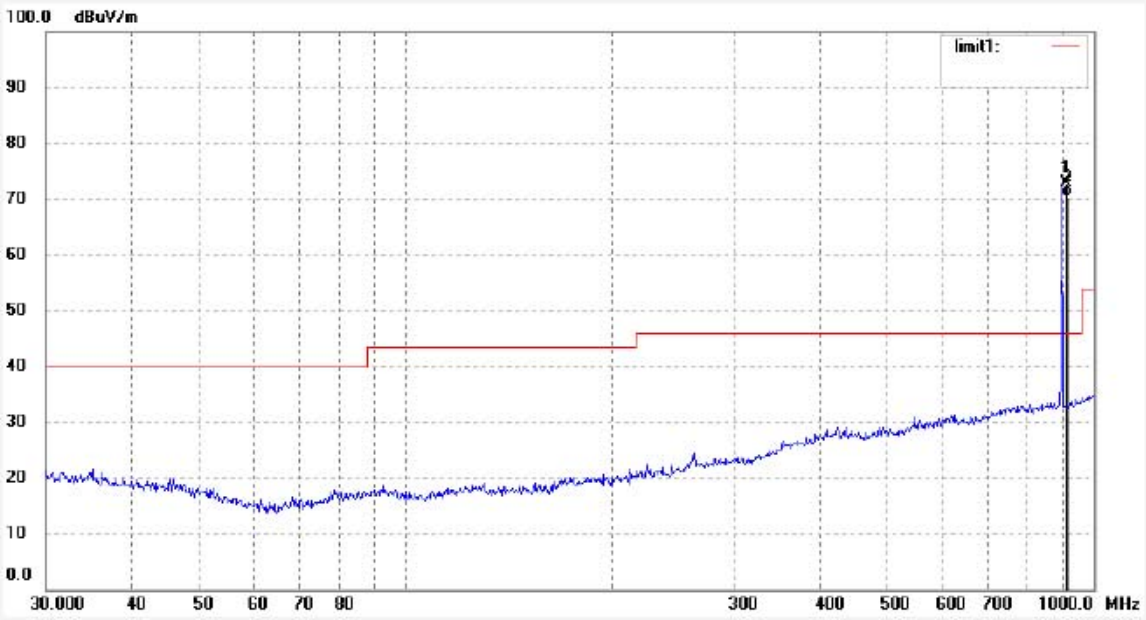
Science & Industry Park,Nanshan Shenzhen,P.R.China
Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: RTTE #2346	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 09/07/17/
Temp.(C)/Hum.(%) 25 C / 50 %	Time: 11/00/04
EUT: Temperature transmitter	Engineer Signature: Joe
Mode: TX Channel 1	Distance: 3m
Model: TX38U-IT	
Manufacturer: La Crosse Technology	

Note: Sample No.:091518 Report No.:ATE20091314



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	910.1056	44.08	28.82	72.90	114.00	-41.10	peak			
2	910.1056	41.56	28.82	70.38	94.00	-23.62	AVG			

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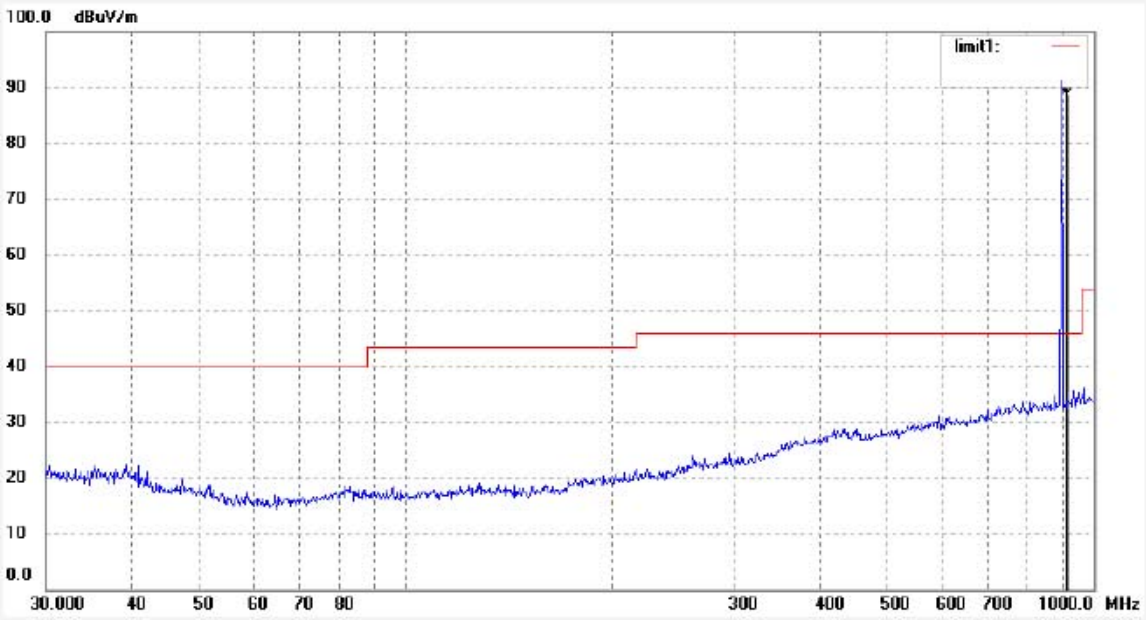
Job No.: RTTE #2347	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 09/07/17/
Temp.(C)/Hum.(%) 25 C / 50 %	Time: 11/04/00
EUT: Temperature transmitter	Engineer Signature: Joe
Mode: TX Channel 1	Distance: 3m
Model: TX38U-IT	
Manufacturer: La Crosse Technology	

Note: Sample No.:091518 Report No.:ATE20091314



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	910.1056	62.66	28.82	91.48	114.00	-22.52	peak			
2	910.1056	60.04	28.82	88.86	94.00	-5.14	AVG			

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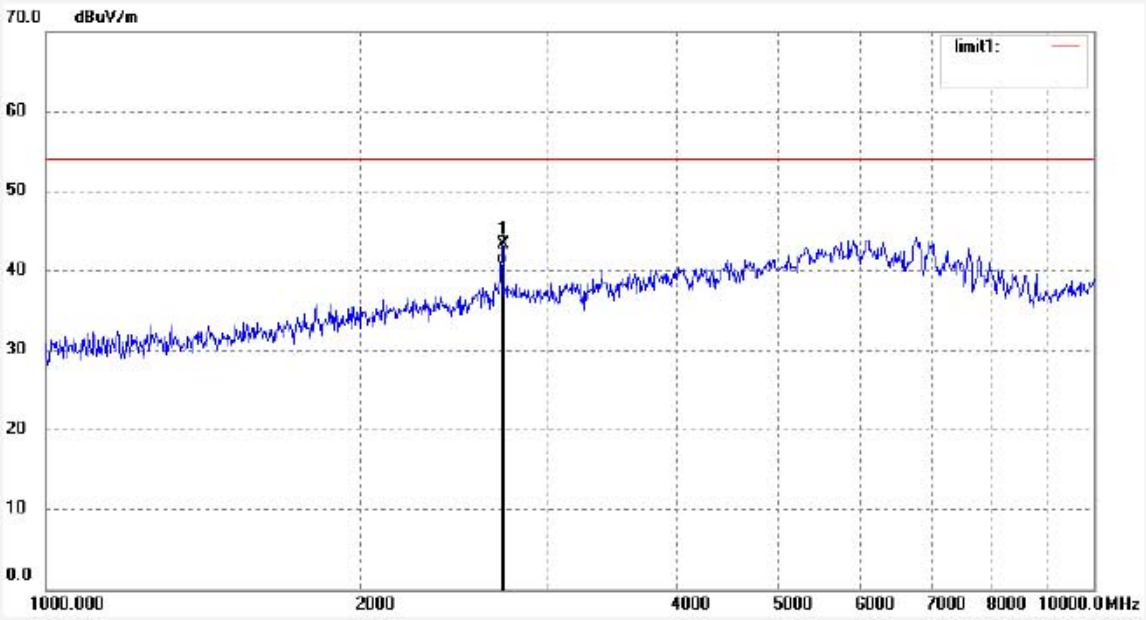
Job No.: RTTE #2357	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 09/07/17/
Temp.(C)/Hum.(%) 25 C / 50 %	Time: 12/58/03
EUT: Temperature transmitter	Engineer Signature: Joe
Mode: TX Channel 1	Distance: 3m
Model: TX38U-IT	
Manufacturer: La Crosse Technology	

Note: Sample No.:091518 Report No.:ATE20091314



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2730.322	49.56	-6.20	43.36	74.00	-30.64	peak			
2	2730.322	47.00	-6.20	40.80	54.00	-13.20	AVG			

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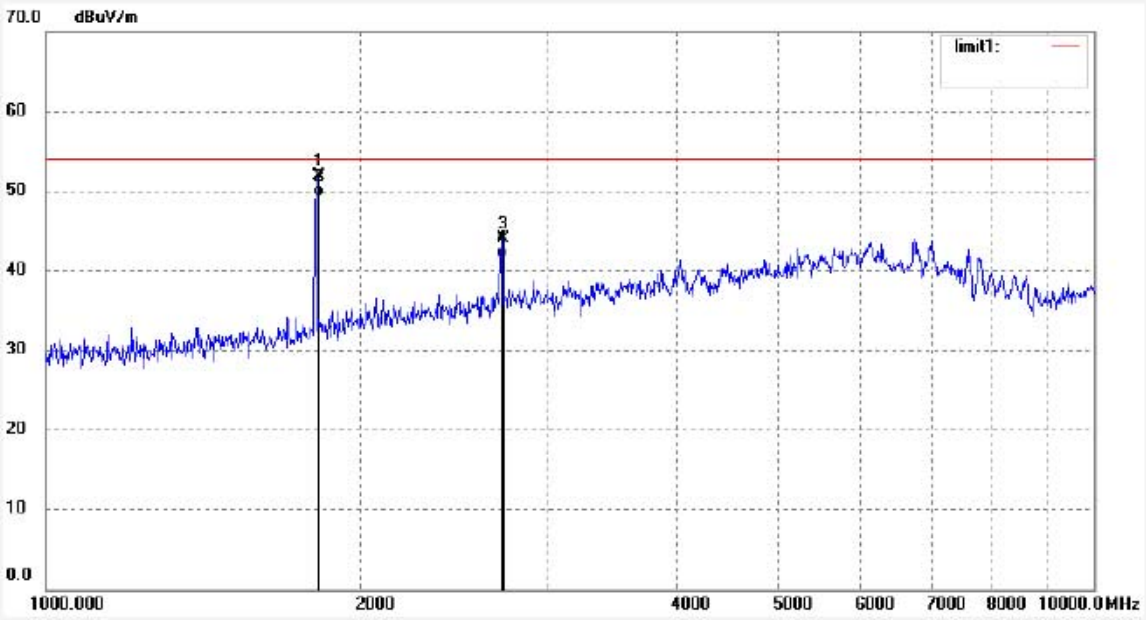
Job No.: RTTE #2356	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 09/07/17/
Temp.(C)/Hum.(%) 25 C / 50 %	Time: 12/55/01
EUT: Temperature transmitter	Engineer Signature: Joe
Mode: TX Channel 1	Distance: 3m
Model: TX38U-IT	
Manufacturer: La Crosse Technology	

Note: Sample No.:091518 Report No.:ATE20091314



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1820.214	61.67	-9.84	51.83	74.00	-22.17	peak			
2	1820.214	59.06	-9.84	49.22	54.00	-4.78	AVG			
3	2730.322	50.26	-6.20	44.06	74.00	-29.94	peak			
4	2730.322	47.72	-6.20	41.52	54.00	-12.48	AVG			

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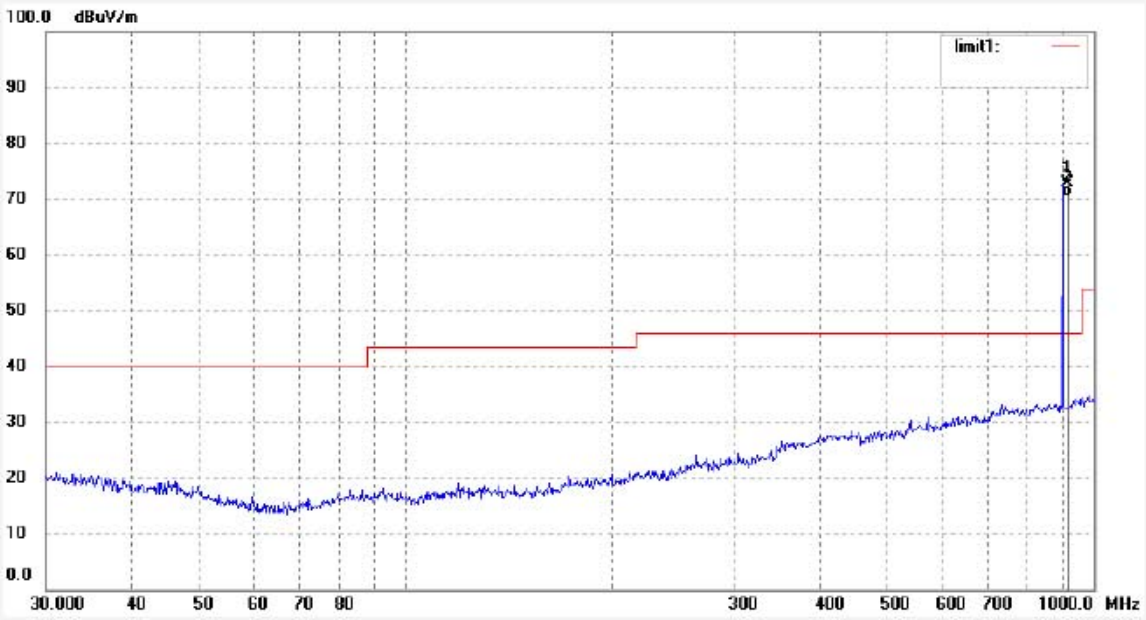
Job No.: RTTE #2349	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 09/07/17/
Temp.(C)/Hum.(%) 25 C / 50 %	Time: 11/14/36
EUT: Temperature transmitter	Engineer Signature: Joe
Mode: TX Channel 2	Distance: 3m
Model: TX38U-IT	
Manufacturer: La Crosse Technology	

Note: Sample No.:091518 Report No.:ATE20091314



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	914.9258	43.97	28.92	72.89	114.00	-41.11	peak			
2	914.9258	41.35	28.92	70.27	94.00	-23.73	AVG			

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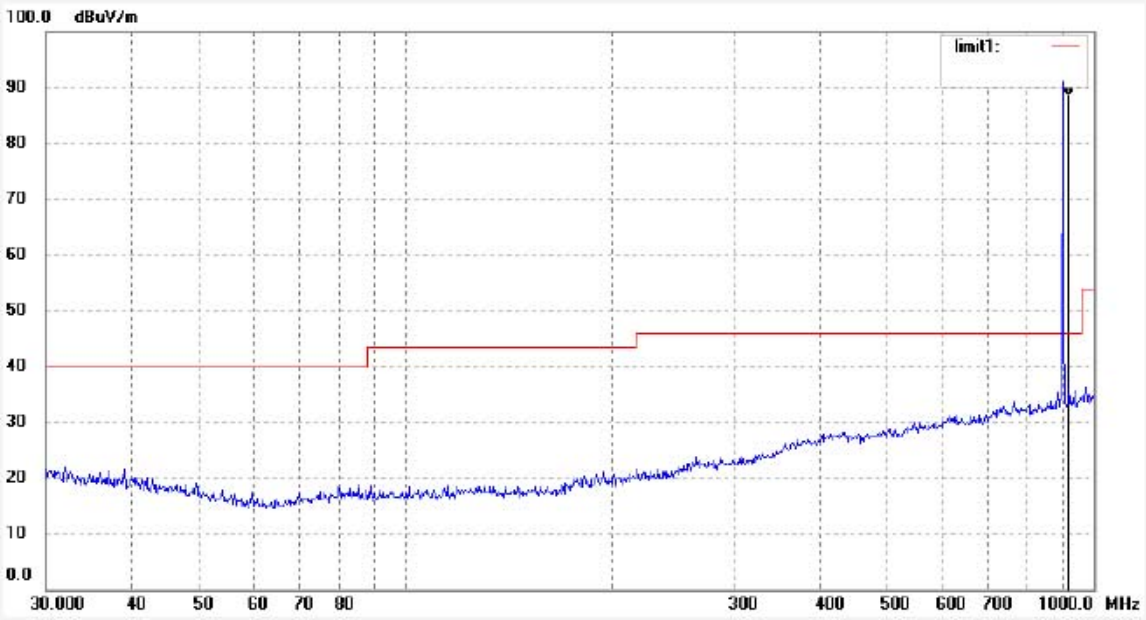
Job No.: RTTE #2348	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 09/07/17/
Temp.(C)/Hum.(%) 25 C / 50 %	Time: 11/10/41
EUT: Temperature transmitter	Engineer Signature: Joe
Mode: TX Channel 2	Distance: 3m
Model: TX38U-IT	
Manufacturer: La Crosse Technology	

Note: Sample No.:091518 Report No.:ATE20091314



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	914.9258	62.29	28.92	91.21	114.00	-22.79	peak			
2	914.9258	59.64	28.92	88.56	94.00	-5.44	AVG			

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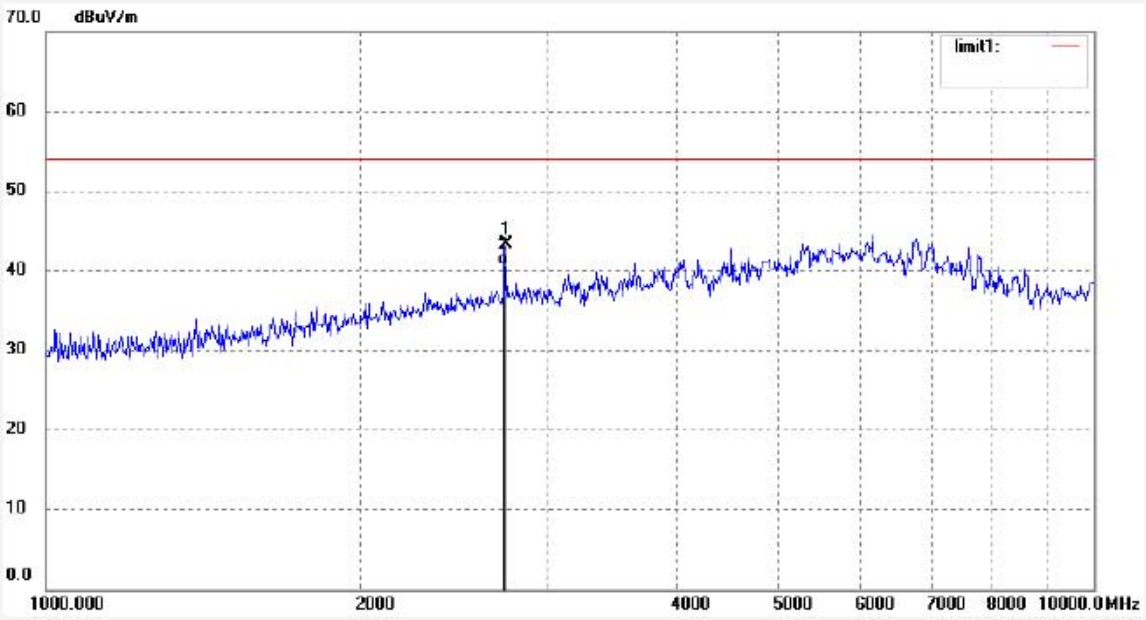
Job No.: RTTE #2354	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 09/07/17/
Temp.(C)/Hum.(%) 25 C / 50 %	Time: 12/40/38
EUT: Temperature transmitter	Engineer Signature: Joe
Mode: TX Channel 2	Distance: 3m
Model: TX38U-IT	
Manufacturer: La Crosse Technology	

Note: Sample No.:091518 Report No.:ATE20091314



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2744.802	49.39	-6.12	43.27	74.00	-30.73	peak			
2	2744.802	46.82	-6.12	40.70	54.00	-13.30	AVG			

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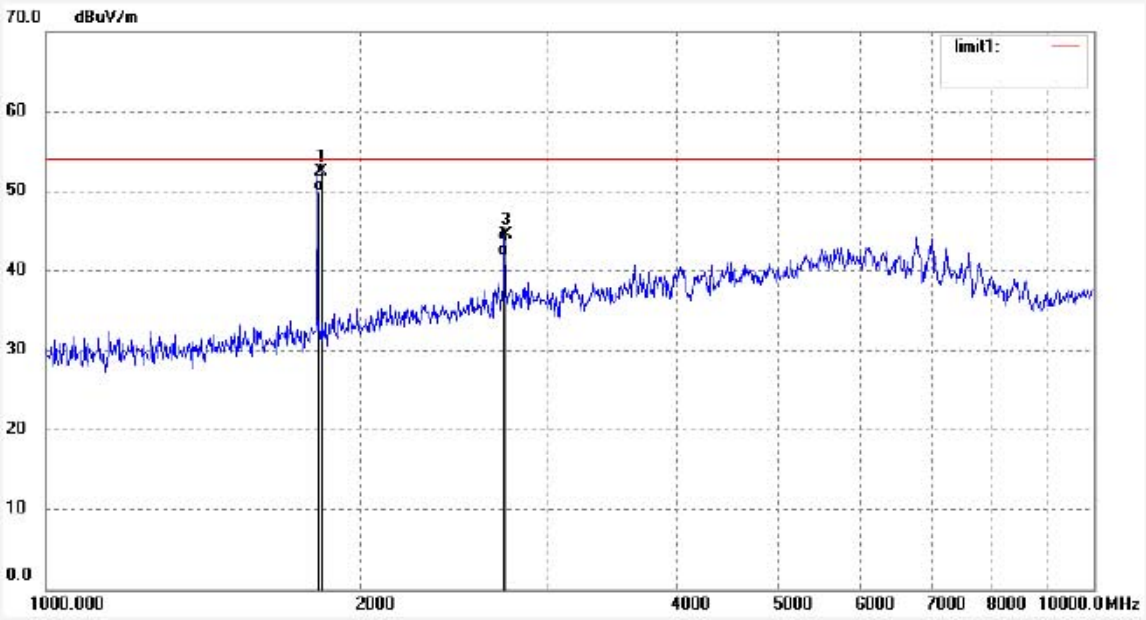
Job No.: RTTE #2355	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 09/07/17/
Temp.(C)/Hum.(%) 25 C / 50 %	Time: 12/42/52
EUT: Temperature transmitter	Engineer Signature: Joe
Mode: TX Channel 2	Distance: 3m
Model: TX38U-IT	
Manufacturer: La Crosse Technology	

Note: Sample No.:091518 Report No.:ATE20091314



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1829.865	62.21	-9.73	52.48	74.00	-21.52	peak			
2	1829.865	59.70	-9.73	49.97	54.00	-4.03	AVG			
3	2744.802	50.64	-6.12	44.52	74.00	-29.48	peak			
4	2744.802	48.02	-6.12	41.90	54.00	-12.10	AVG			

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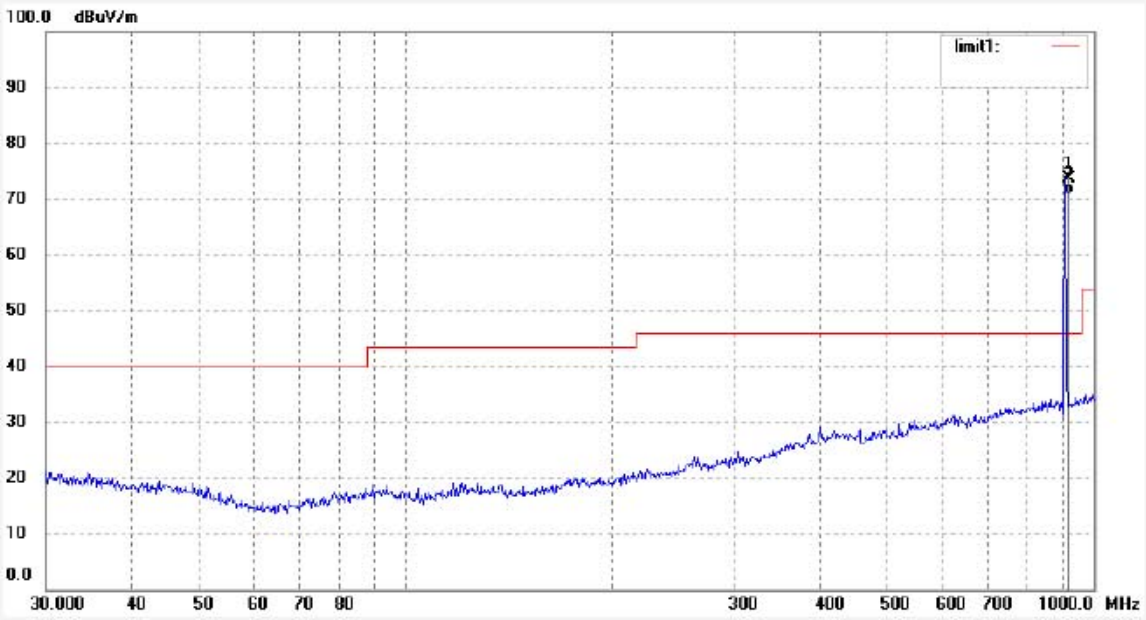
Job No.: RTTE #2350	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 09/07/17/
Temp.(C)/Hum.(%) 25 C / 50 %	Time: 11/20/19
EUT: Temperature transmitter	Engineer Signature: Joe
Mode: TX Channel 3	Distance: 3m
Model: TX38U-IT	
Manufacturer: La Crosse Technology	

Note: Sample No.:091518 Report No.:ATE20091314



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	919.9075	44.51	29.03	73.54	114.00	-40.46	peak			
2	919.9075	41.97	29.03	71.00	94.00	-23.00	AVG			

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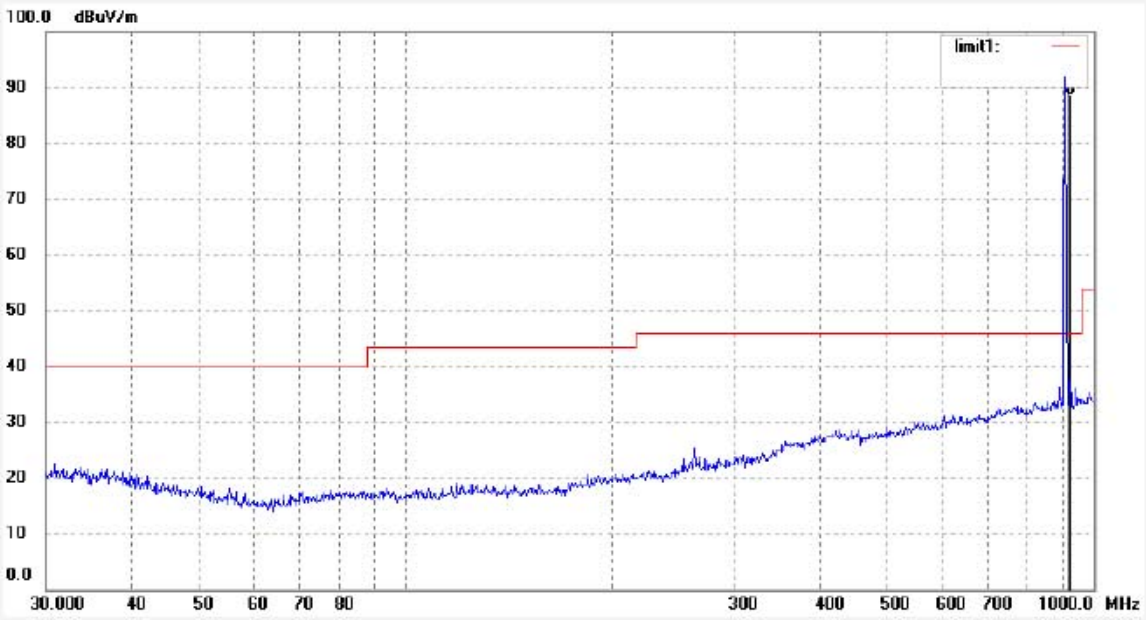
Job No.: RTTE #2351	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 09/07/17/
Temp.(C)/Hum.(%) 25 C / 50 %	Time: 11/24/15
EUT: Temperature transmitter	Engineer Signature: Joe
Mode: TX Channel 3	Distance: 3m
Model: TX38U-IT	
Manufacturer: La Crosse Technology	

Note: Sample No.:091518 Report No.:ATE20091314



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	919.9075	62.73	29.03	91.76	114.00	-22.24	peak			
2	919.9075	59.67	29.03	88.70	94.00	-5.30	AVG			

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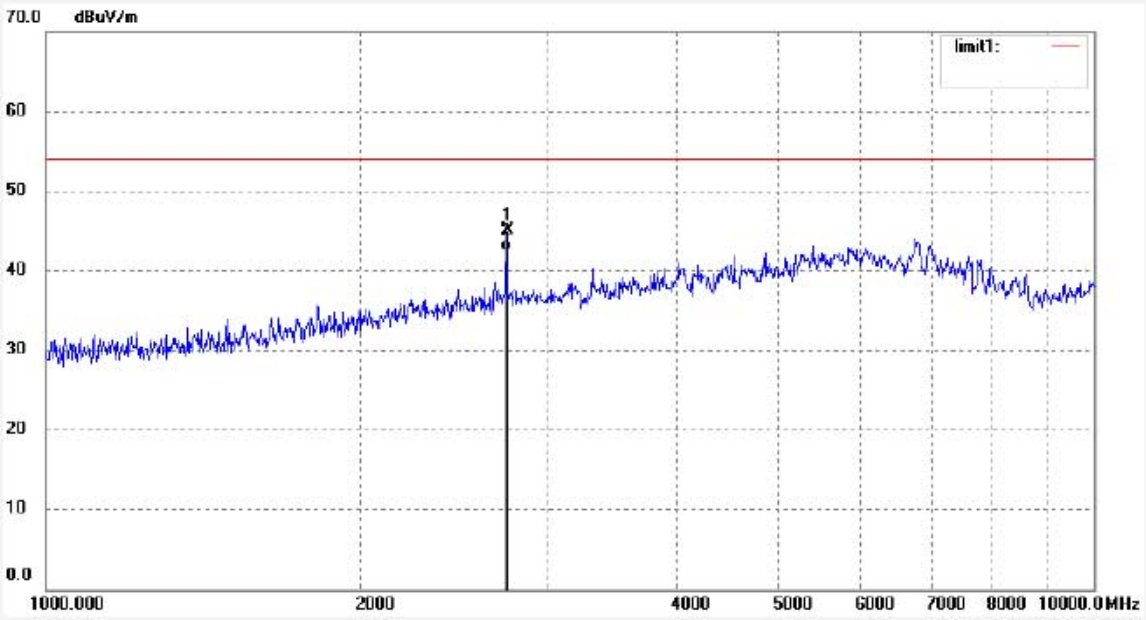
Job No.: RTTE #2353	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 09/07/17/
Temp.(C)/Hum.(%) 25 C / 50 %	Time: 11/58/28
EUT: Temperature transmitter	Engineer Signature: Joe
Mode: TX Channel 3	Distance: 3m
Model: TX38U-IT	
Manufacturer: La Crosse Technology	

Note: Sample No.:091518 Report No.:ATE20091314



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2759.756	51.13	-6.09	45.04	74.00	-28.96	peak			
2	2759.756	48.58	-6.09	42.49	54.00	-11.51	AVG			

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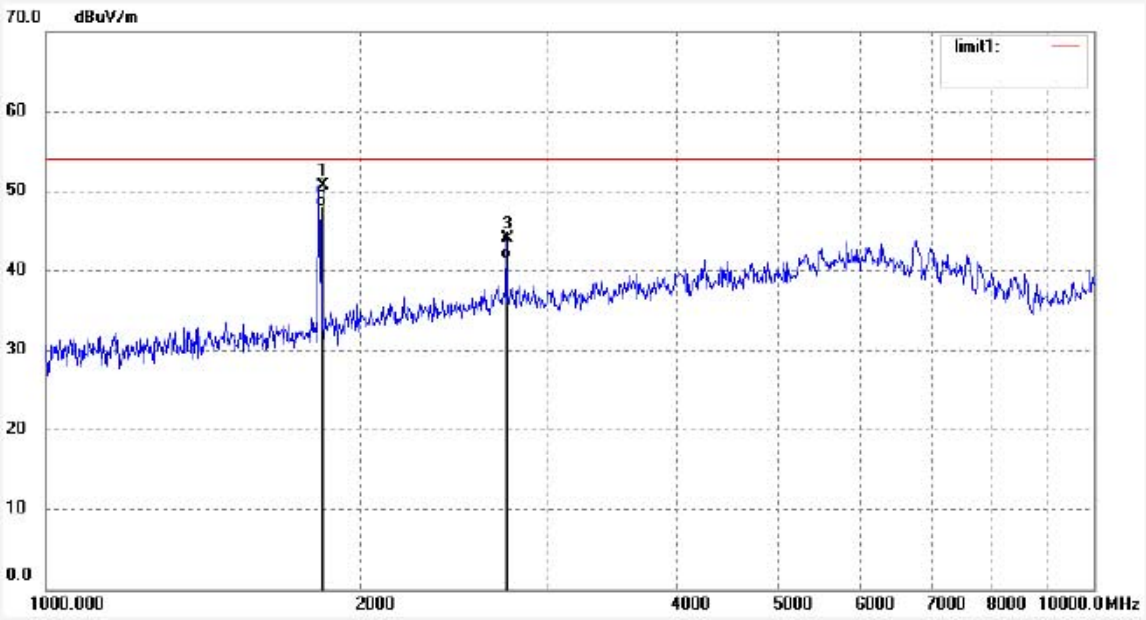
Job No.: RTTE #2352	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 09/07/17/
Temp.(C)/Hum.(%) 25 C / 50 %	Time: 11/53/30
EUT: Temperature transmitter	Engineer Signature: Joe
Mode: TX Channel 3	Distance: 3m
Model: TX38U-IT	
Manufacturer: La Crosse Technology	

Note: Sample No.:091518 Report No.:ATE20091314



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1839.836	60.24	-9.63	50.61	74.00	-23.39	peak			
2	1839.836	57.63	-9.63	48.00	54.00	-6.00	AVG			
3	2759.746	50.18	-6.09	44.09	74.00	-29.91	peak			
4	2759.746	47.56	-6.09	41.47	54.00	-12.53	AVG			

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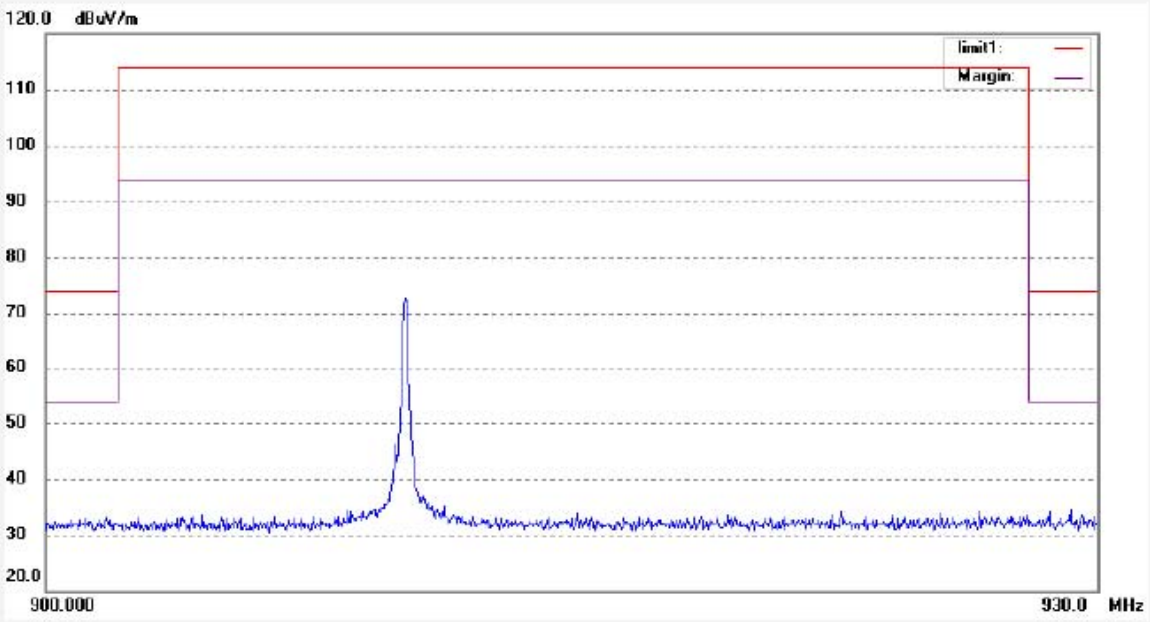
Job No.: RTTE #2514	Polarization: Horizontal
Standard: FCC Part 15 Band Edge	Power Source: DC 3V
Test item: Radiation Test	Date: 09/08/04/
Temp.(C)/Hum.(%) 25 C / 50 %	Time: 9/56/45
EUT: Temperature transmitter	Engineer Signature: Joe
Mode: TX Channel 1	Distance: 3m
Model: TX38U-IT	
Manufacturer: La Crosse Technology	

Note: Sample No.:091518 Report No.:ATE20091314



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark

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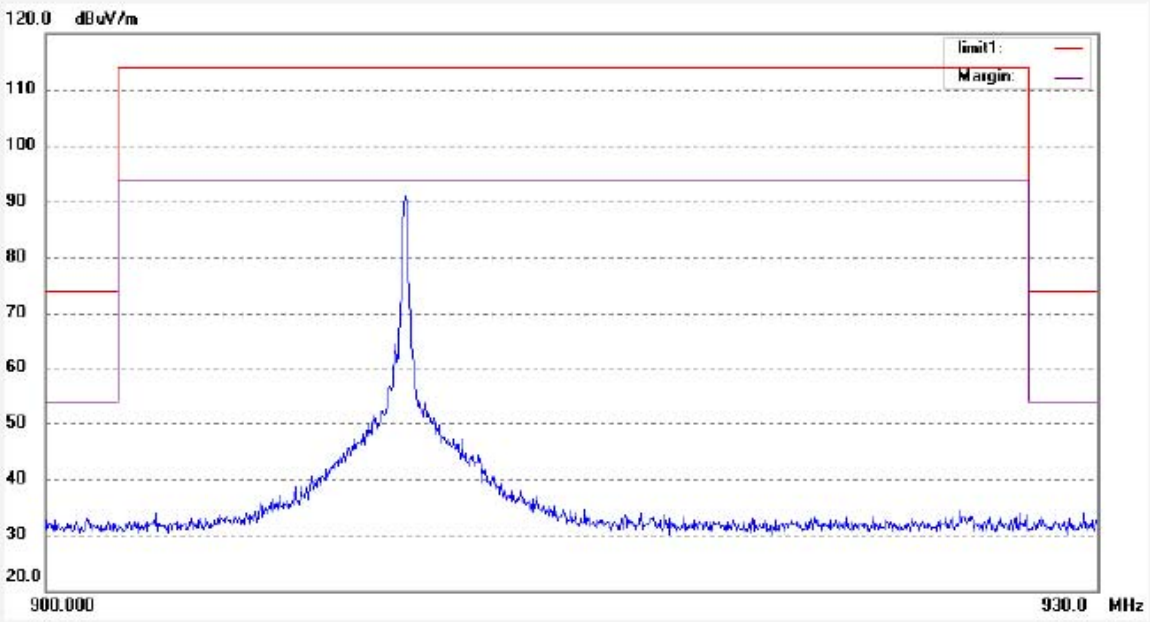
Job No.: RTTE #2513	Polarization: Vertical
Standard: FCC Part 15 Band Edge	Power Source: DC 3V
Test item: Radiation Test	Date: 09/08/04/
Temp.(C)/Hum.(%) 25 C / 50 %	Time: 9/53/36
EUT: Temperature transmitter	Engineer Signature: Joe
Mode: TX Channel 1	Distance: 3m
Model: TX38U-IT	
Manufacturer: La Crosse Technology	

Note: Sample No.:091518 Report No.:ATE20091314



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark

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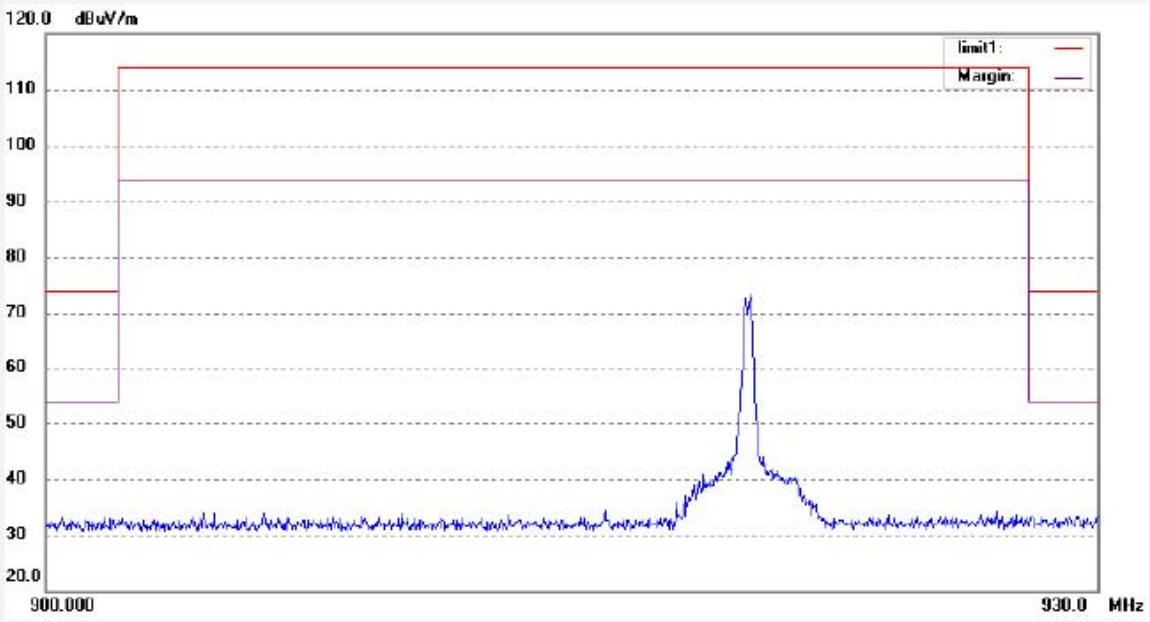
Job No.: RTTE #2511	Polarization: Horizontal
Standard: FCC Part 15 Band Edge	Power Source: DC 3V
Test item: Radiation Test	Date: 09/08/04/
Temp.(C)/Hum.(%) 25 C / 50 %	Time: 9/39/21
EUT: Temperature transmitter	Engineer Signature: Joe
Mode: TX Channel 3	Distance: 3m
Model: TX38U-IT	
Manufacturer: La Crosse Technology	

Note: Sample No.:091518 Report No.:ATE20091314



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark

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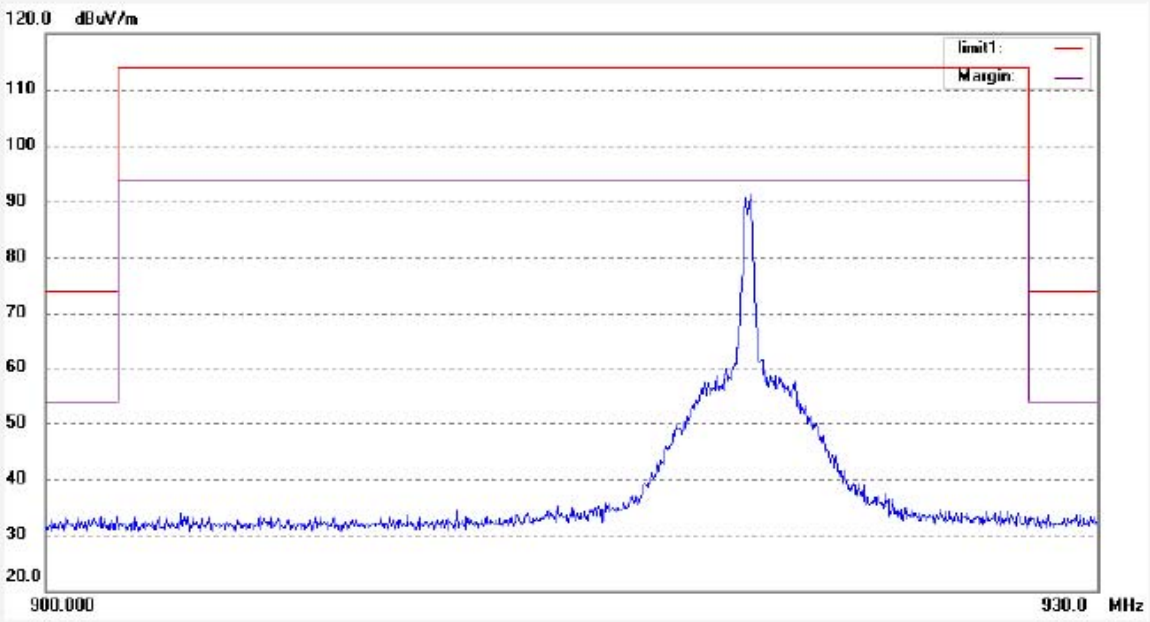
Job No.: RTTE #2512	Polarization: Vertical
Standard: FCC Part 15 Band Edge	Power Source: DC 3V
Test item: Radiation Test	Date: 09/08/04/
Temp.(C)/Hum.(%) 25 C / 50 %	Time: 9/42/11
EUT: Temperature transmitter	Engineer Signature: Joe
Mode: TX Channel 3	Distance: 3m
Model: TX38U-IT	
Manufacturer: La Crosse Technology	

Note: Sample No.:091518 Report No.:ATE20091314



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark