

APPLICATION CERTIFICATION

On Behalf of
Blue Rhino Global Sourcing

REMOTE TEMPERATURE GAUGE

Model No.: 40145X

FCC ID:2AK79-40145X

Prepared for : Blue Rhino Global Sourcing
Address : Rm 1208, 12/F Mirror Tower, 61 Mody Road,
TsimShaTsui East, Kowloon, Hong Kong.

Prepared by : ACCURATE TECHNOLOGY CO., LTD
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Report Number : ATE20162561
Date of Test : Dec. 03, 2016-Dec. 20, 2016
Date of Report : Dec. 21, 2016

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Test Report Certification

Applicant : Blue Rhino Global Sourcing
Manufacturer : Blue Rhino Global Sourcing
EUT Description : REMOTE TEMPERATURE GAUGE
(A) MODEL NO.: 40145X
(B) SERIAL NO.: N/A
(C) POWER SUPPLY: DC 3.0V (Battery 2x)

Measurement Procedure Used:

FCC Rules and Regulations Part 15 Subpart C Section 15.231e
ANSI C63.10-2013

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 Section 15.231(e). 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 :

Dec. 03, 2016-Dec. 20, 2016

Date of Report :

Dec. 21, 2016

Prepared by :



(Tim.zhang, Engineer)

Approved & Authorized Signer :



(Sean Liu, Manager)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT	: REMOTE TEMPERATURE GAUGE
Model Number	: 40145X
Power Supply	: DC 3.0V (battery 2x)
Modulation:	: ASK
Operation Frequency	: 433.92MHz
Applicant	: Blue Rhino Global Sourcing
Address	: Rm 1208, 12/F Mirror Tower, 61 Mody Road, TsimShaTsui East, Kowloon, Hong Kong.
Manufacturer	: Blue Rhino Global Sourcing
Address	: Rm 1208, 12/F Mirror Tower, 61 Mody Road, TsimShaTsui East, Kowloon, Hong Kong.
Date of sample received	: Dec. 03, 2016
Date of Test	: Dec. 03, 2016-Dec. 20, 2016

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 = 3.08dB, k=2
(9kHz-30MHz)

Radiated emission expanded uncertainty = 4.42dB, k=2
(30MHz-1000MHz)

Radiated emission expanded uncertainty = 4.06dB, k=2
(Above 1GHz)

2. MEASURING DEVICE AND TEST EQUIPMENT

Table 1: List of Test and Measurement Equipment

Kind of equipment	Manufacturer	Type	S/N	Calibrated dates	Cal. Interval
EMI Test Receiver	Rohde&Schwarz	ESCS30	100307	Jan. 09, 2016	One Year
EMI Test Receiver	Rohde&Schwarz	ESPI3	101526/003	Jan. 09, 2016	One Year
Spectrum Analyzer	Agilent	E7405A	MY45115511	Jan. 09, 2016	One Year
Pre-Amplifier	Rohde&Schwarz	CBLU118354 0-01	3791	Jan. 09, 2016	One Year
Loop Antenna	Schwarzbeck	FMZB1516	1516131	Jan. 14, 2016	One Year
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	Jan. 14, 2016	One Year
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	Jan. 14, 2016	One Year
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-1067	Jan. 14, 2016	One Year
LISN	Rohde&Schwarz	ESH3-Z5	100305	Jan. 09, 2016	One Year
LISN	Schwarzbeck	NSLK8126	8126431	Jan. 09, 2016	One Year
Highpass Filter	Wainwright Instruments	WHKX3.6/18 G-10SS	N/A	Jan. 09, 2016	One Year
Band Reject Filter	Wainwright Instruments	WRCG2400/2 485-2375/2510 -60/11SS	N/A	Jan. 09, 2016	One Year

3. SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
Section 15.207	Conducted Emission	N/A
Section 15.231(e)	Radiated Emission	Compliant
Section 15.231(c)	20dB Bandwidth	Compliant
Section 15.231(e)	Release Time Measurement	Compliant
Section 15.203	Antenna Requirement	Compliant

The product is a manually operated REMOTE TEMPERATURE GAUGE transmitter.

Note: The power supply mode of the EUT is DC 3V, According to the FCC standard requirements, conducted emission is not applicable

All normal using modes of the normal function were tested but only the worst test data of the worst mode is recorded by this report.

4. THE FIELD STRENGTH OF RADIATION EMISSION

4.1. Block Diagram of Test Setup

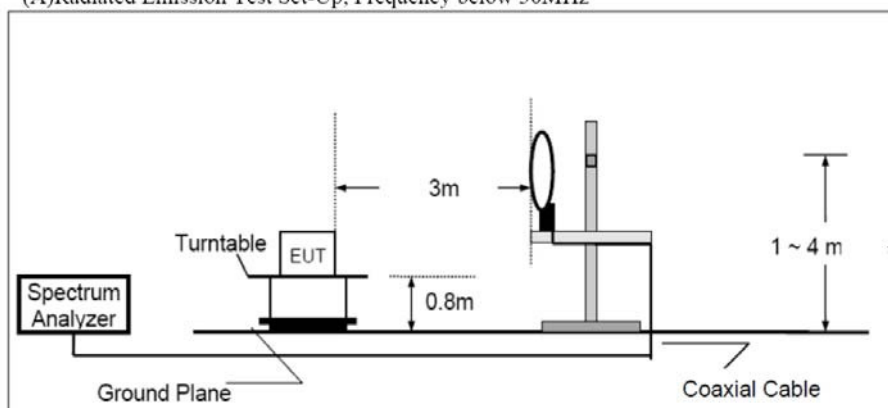
4.1.1. Block diagram of connection between the EUT and simulators



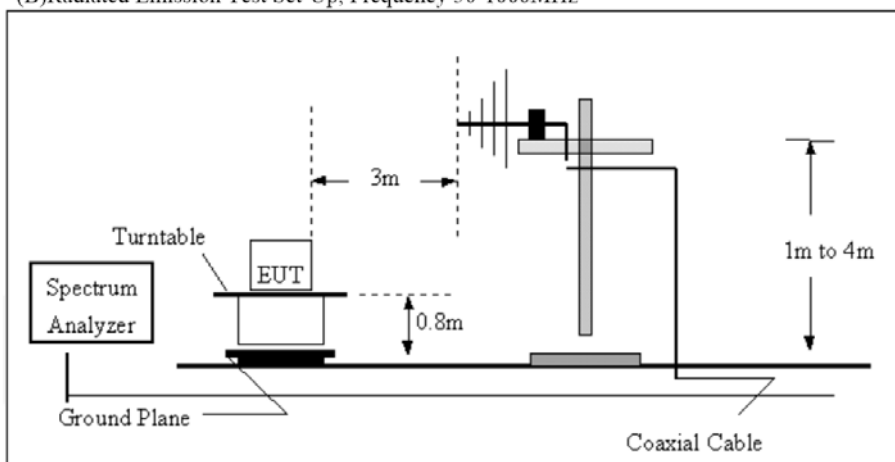
(EUT: REMOTE TEMPERATURE GAUGE)

4.1.2. Semi-Anechoic Chamber Test Setup Diagram

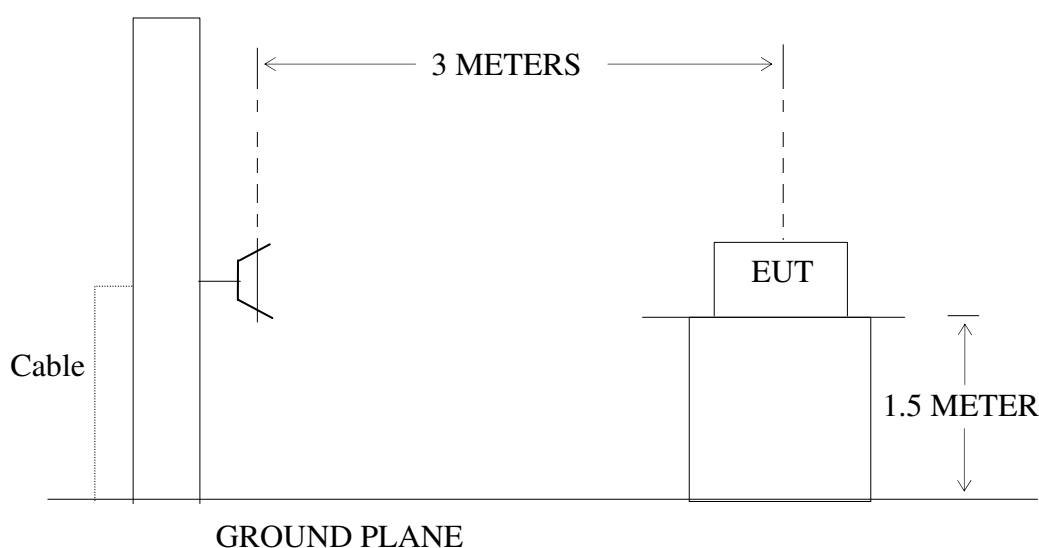
(A) Radiated Emission Test Set-Up, Frequency below 30MHz



(B) Radiated Emission Test Set-Up, Frequency 30-1000MHz



(C) Radiated Emission Test Set-Up, Frequency above 1GHz



(EUT: REMOTE TEMPERATURE GAUGE)

4.2.The Field Strength of Radiation Emission Measurement Limits

4.2.1.Radiation Emission Measurement Limits According to FCC Part 15 Section 15.231(e)

Funda- mental fre- quency (MHz)	Field strength of fun- damental (microvolts/ meter)	Field strength of spu- rious emission (microvolts/meter)
40.66– 40.70.	1,000	100
70–130	500	50
130–174	500 to 1,500 ¹	50 to 150 ¹
174–260	1,500	150
260–470	1,500 to 5,000 ¹	150 to 500 ¹
Above 470	5,000	500

¹ Linear interpolations.

4.2.2.Restricted Band Radiation Emission Measurement Limits According to FCC part 15 Section 15.205 and Section15.209.

4.3.Configuration of EUT on Measurement

The following equipment is 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.

4.4. 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 mode measure it.

4.5. Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground (Below 1GHz). The EUT and its simulators are placed on a turntable, which is 1.5 meter high above ground (Above 1GHz). 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 bi-log 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 EUT location must be manipulated according to ANSI C63.10:2013 on radiated emission measurement. The EUT was tested in 3 orthogonal planes.

The bandwidth of test receiver is set at 120 kHz in 30-1000 MHz, and 1 MHz in 1000-5000 MHz.

The frequency range from 9 kHz to 5000 MHz is checked.

The test frequency is from 9KHz to 5000 MHz, The radiation emission from 9KHz-30MHz is not reported, because the levels are too low against the limit.

4.6.The Field Strength of Radiation Emission Measurement Results

PASS.

Date of Test:	Dec. 13, 2016	Temperature:	25°C
EUT:	REMOTE	Humidity:	50%
Model No.:	TEMPERATURE GAUGE	Power Supply:	DC 3.0V
Test Mode:	40145X	Test Engineer:	Ding
	TX		

Frequency (MHz)	Reading (dBμV/m)	Factor Corr.	Average Factor	Result(dBμV/m)		Limit(dBμV/m)		Margin(dB)		Polarization
	PEAK	(dB)	(dB)	AV	PEAK	AV	PEAK	AV	PEAK	
433.92	77.43	-5.53	-9.86	62.04	71.90	72.87	92.87	10.83	20.97	Horizontal
867.85	49.03	1.90	-9.86	41.07	50.93	52.87	72.87	11.80	21.94	
1302.06	57.35	-8.67	-9.86	38.82	48.68	52.87	72.87	14.05	24.19	
433.92	83.93	-5.53	-9.86	68.54	78.40	72.87	92.87	4.33	14.47	Vertical
867.85	47.98	1.90	-9.86	40.02	49.88	52.87	72.87	12.85	22.99	
1302.06	59.57	-8.67	-9.86	41.04	50.90	52.87	72.87	11.83	21.97	

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. FCC Limit for Average Measurement = $16.67 \times (433.92) - 2833.33 = 4400.1164 \mu\text{V/m} = 72.87 \text{ dB}\mu\text{V/m}$
4. The spectral diagrams in appendix I display the measurement of peak values.
5. Average value= PK value + Average Factor (duty factor)
6. If the peak-detected amplitude can be shown to comply with the average limit, then it is not necessary to perform a separate average measurement.
7. The EUT is tested radiation emission in three axes(X,Y,Z). The worst emissions are reported in three axes.
8. Pulse Desensitization Correction Factor

Pulse Width (PW) = 0.6522ms

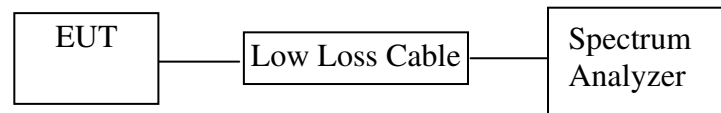
$2/PW = 2/0.6522\text{ms} = 3.07\text{kHz}$

RBW (100 kHz) > 2/PW (3.07 kHz)

Therefore PDCF is not needed

5. 20DB OCCUPIED BANDWIDTH

5.1. Block Diagram of Test Setup



(EUT: REMOTE TEMPERATURE GAUGE)

5.2. The Bandwidth of Emission Limit According To FCC Part 15 Section

15.231(c)

The bandwidth of emission shall be no wider than 0.25% of the center frequency. Therefore, the bandwidth of the emission limit is $433.92 \text{ MHz} \times 0.25\% = 1084.8 \text{ kHz}$. Bandwidth is determined at the two points 20 dB down from the top of modulated carrier.

5.3. EUT Configuration on Measurement

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

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 mode measure it.

5.5. Test Procedure

5.5.1. Set SPA Center Frequency = Fundamental frequency, RBW = 10 kHz, VBW = 30 kHz, Span = 1MHz.

5.5.2. Set SPA Max hold, Mark peak, -20 dB.

5.6.Measurement Result

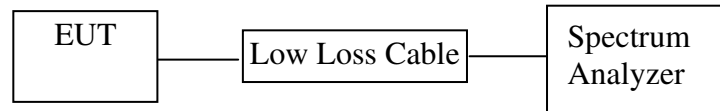
The EUT does meet the FCC requirement.

-20 dB bandwidth = 86.8 kHz < $433.92\text{MHz} \times 0.25\% = 1084.8\text{KHz}$.

The spectral diagrams in appendix I.

6. RELEASE TIME MEASUREMENT

6.1. Block Diagram of Test Setup



(EUT: REMOTE TEMPERATURE GAUGE)

6.2. Release Time Measurement According To FCC Part 15 Section 15.231(e)

Section 15.231(e) 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.

6.3. EUT Configuration on Measurement

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

6.4. Operating Condition of EUT

6.4.1. Setup the EUT and simulator as shown as Section 6.1.

6.4.2. Turn on the power of all equipment.

6.4.3. Let the EUT work in TX mode measure it.

6.5. Test Procedure

6.5.1. Set SPA Center Frequency = Fundamental frequency, RBW = 100 kHz, VBW = 300 kHz, Span = 0 Hz.

6.5.2. Set EUT as normal operation.

6.5.3. Set SPA View. Delta Mark time.

6.6. Measurement Result

Test result: pass

Period Time = $26.087 + 0.6957s = 26.7827$

Duration time = $0.6957s$

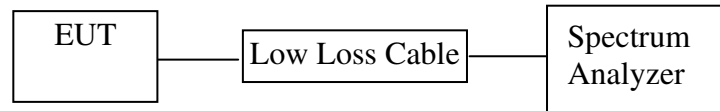
Silent time = $26.087s > 10s$

Silent time = $26.087s > 30 * 0.6957s = 20.871s$

The spectral diagrams in appendix I.

7. AVERAGE FACTOR MEASUREMENT

7.1. Block Diagram of Test Setup



(EUT: REMOTE TEMPERATURE GAUGE)

7.2. Average factor Measurement according to ANSI C63.10-2013

ANSI C63.10-2013 Section 7.5 Unless otherwise specified, when the radiated emission limits are expressed in terms of the average value of the emission, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 s (100 ms). In cases where the pulse train exceeds 0.1 s, the measured field strength shall be determined during a 0.1 s interval.⁶⁴ The following procedure is an example of how the average value may be determined. The average field strength may be found by measuring the peak pulse amplitude (in log equivalent units) and determining the duty cycle correction factor (in dB) associated with the pulse modulation as shown in Equation (10):

Average factor in dB = 20 log (duty cycle)

7.3. EUT Configuration on Measurement

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

7.4. Operating Condition of EUT

7.4.1. Setup the EUT and simulator as shown as Section 7.1.

7.4.2. Turn on the power of all equipment.

7.4.3. Let the EUT work in TX mode measure it.

7.5. Test Procedure

7.5.1. The time period over which the duty cycle is measured is 100 milliseconds, or the repetition cycle, whichever is a shorter time frame. The worst case (highest percentage on) duty cycle is used for the calculation.

7.5.2. Set SPA Center Frequency = Fundamental frequency, RBW = 100 kHz, VBW = 300 kHz, Span = 0 Hz.

7.5.3. Set EUT as normal operation.

7.5.4. Set SPA View. Delta Mark time.

7.6. Measurement Result

The duty cycle is simply the on time divided by the period:

Effective period of the cycle = $1.2609 + 10 + (0.6522 \times 32)$ ms = 32.1313 ms

DC = $32.1313 \text{ ms} / 100 \text{ ms} = 32.1313\%$

Therefore, the average factor is found by $20 \log 0.321313 = -9.86 \text{ dB}$

The spectral diagrams in appendix I.

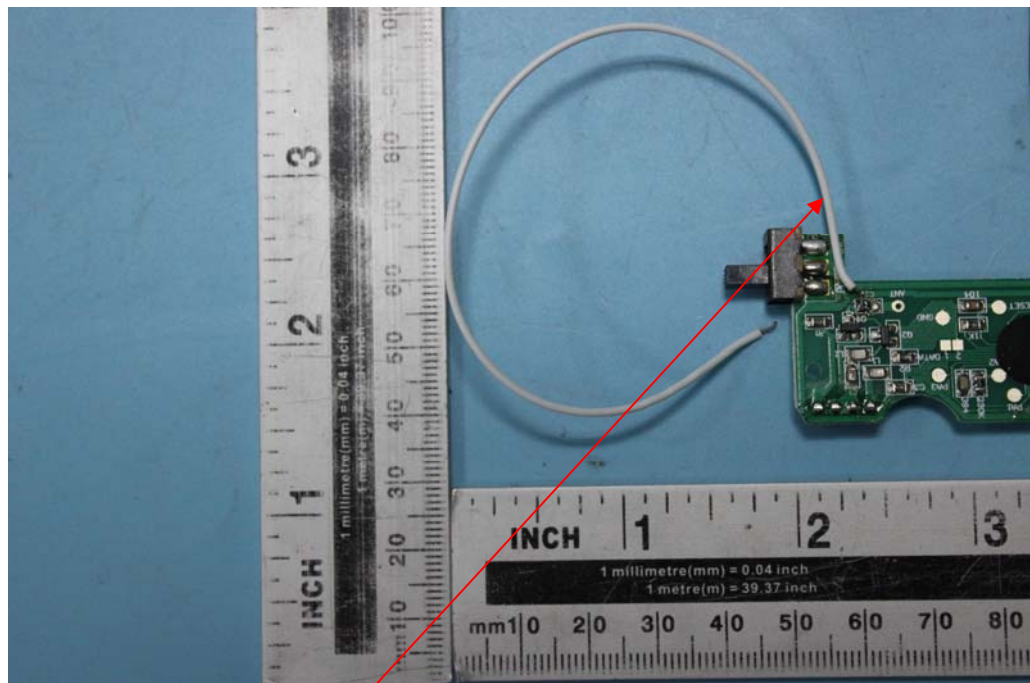
8. ANTENNA REQUIREMENT

8.1.The Requirement

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.

8.2.Antenna Construction

Device is equipped with permanent attached antenna, which isn't displaced by other antenna. The Max Antenna gain of EUT is 0dBi. Therefore, the equipment complies with the antenna requirement of Section 15.203.



Antenna

APPENDIX I

(Test Curves)



ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

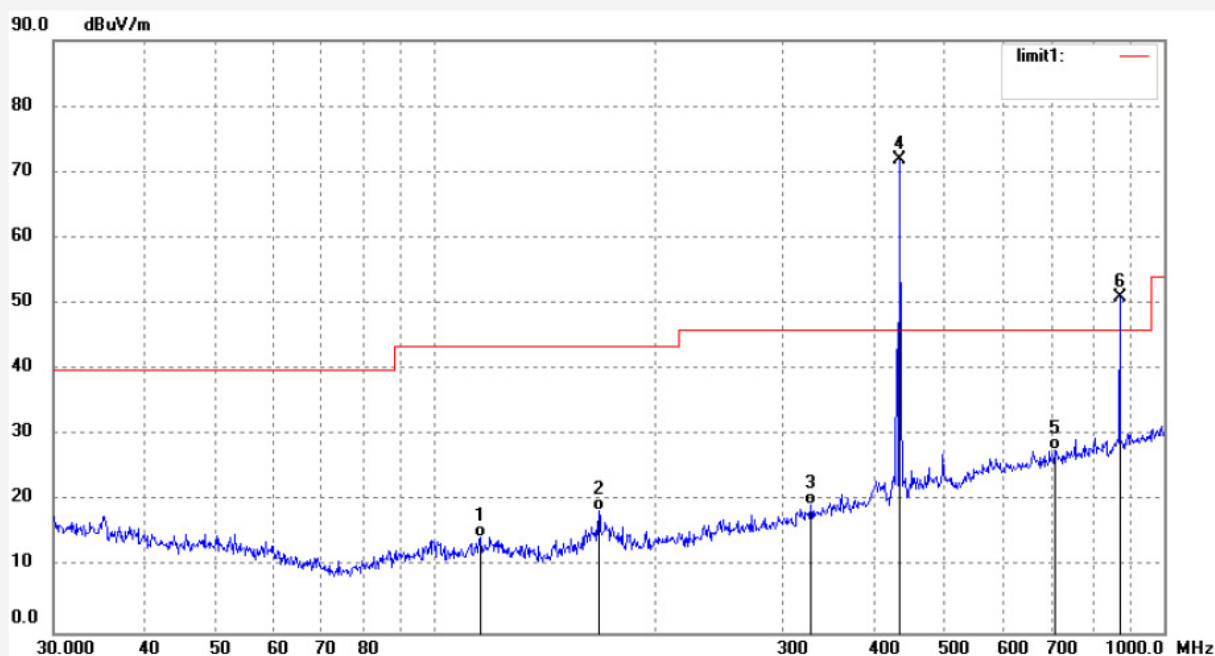
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: DING #940
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: REMOTE TEMPERATURE GAUGE
Mode: TX
Model: 40145X
Manufacturer: BLUE RHINO GLOBAL SOURCING

Polarization: Horizontal
Power Source: DC 3V
Date: 16/12/13/
Time: 12/43/10
Engineer Signature:
Distance: 3m

Note: Report NO.:ATE20162561



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	115.7256	27.59	-13.06	14.53	43.50	-28.97	QP			
2	167.8242	32.47	-13.88	18.59	43.50	-24.91	QP			
3	327.8872	27.65	-8.12	19.53	46.00	-26.47	QP			
4	433.9249	77.43	-5.53	71.90			peak			
5	709.1823	28.68	-0.92	27.76	46.00	-18.24	QP			
6	867.8498	49.03	1.90	50.93			peak			



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Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: DING #941

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: REMOTE TEMPERATURE GAUGE

Mode: TX

Model: 40145X

Manufacturer: BLUE RHINO GLOBAL SOURCING

Polarization: Vertical

Power Source: DC 3V

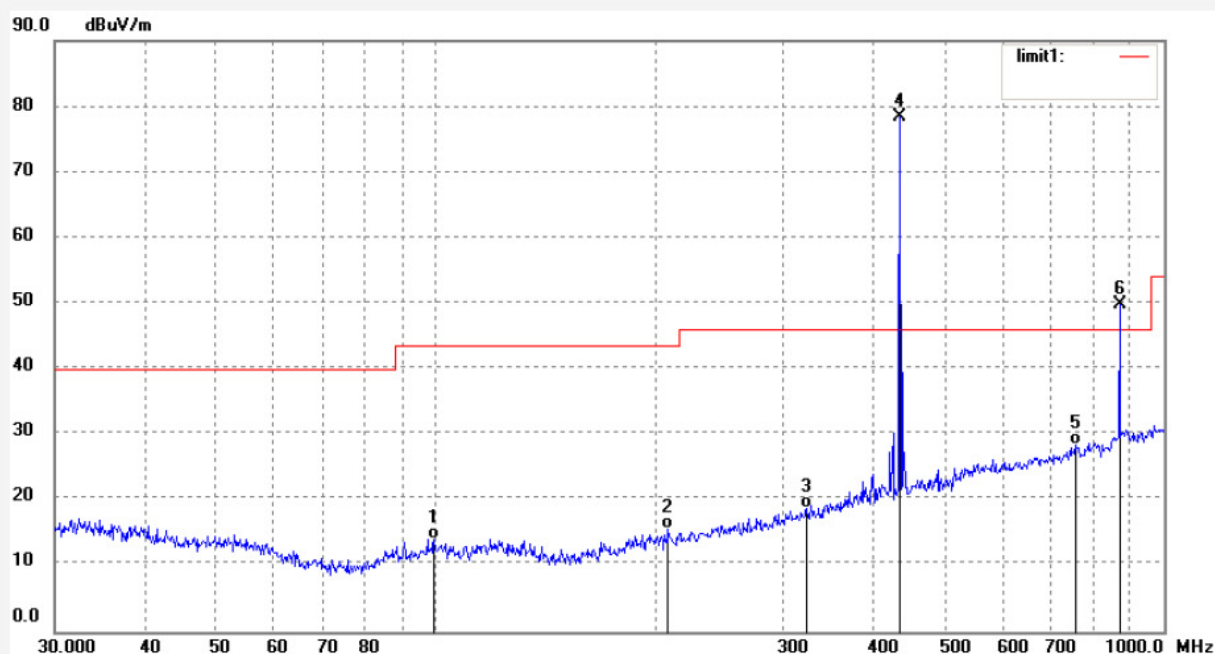
Date: 16/12/13/

Time: 12/44/55

Engineer Signature:

Distance: 3m

Note: Report NO.:ATE20162561



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	99.5279	27.34	-13.21	14.13	43.50	-29.37	QP			
2	208.5801	27.57	-12.03	15.54	43.50	-27.96	QP			
3	323.3204	27.01	-8.31	18.70	46.00	-27.30	QP			
4	433.9249	83.93	-5.53	78.40			peak			
5	755.3872	28.66	-0.21	28.45	46.00	-17.55	QP			
6	867.8498	47.98	1.90	49.88			peak			



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Fax:+86-0755-26503396

Job No.: DING #938

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: REMOTE TEMPERATURE GAUGE

Mode: TX

Model: 40145X

Manufacturer: BLUE RHINO GLOBAL SOURCING

Polarization: Horizontal

Power Source: DC 3V

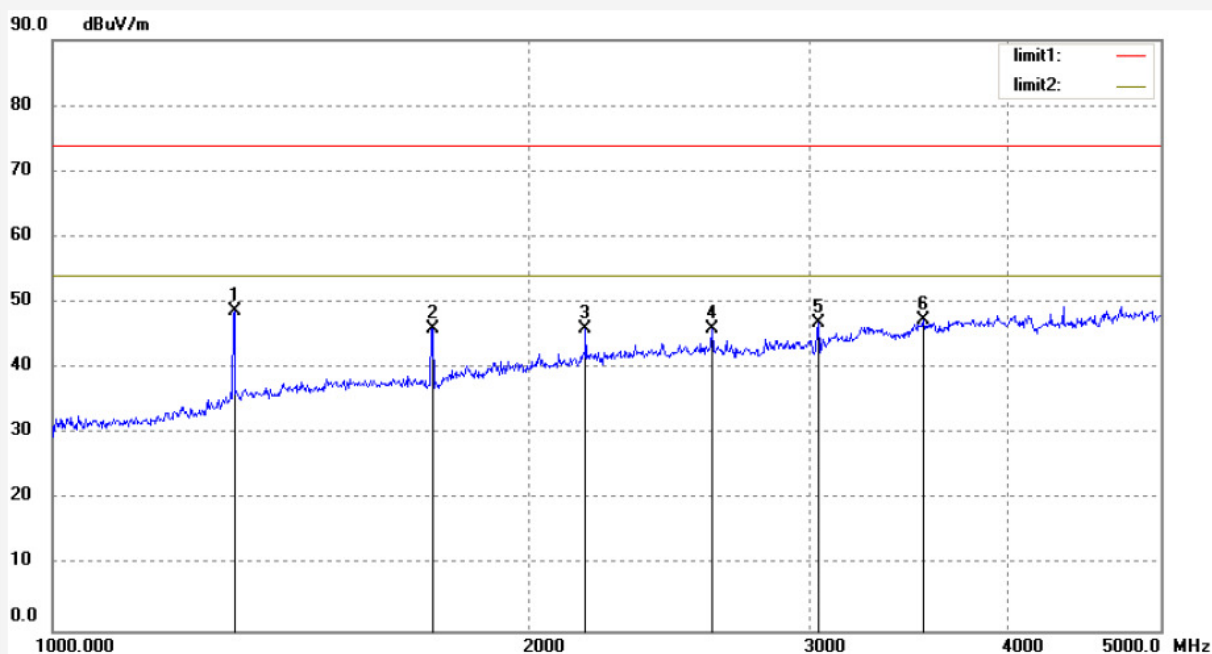
Date: 16/12/13/

Time: 12/39/10

Engineer Signature:

Distance: 3m

Note: Report NO.:ATE20162561



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1302.060	57.35	-8.67	48.68	74.00	-25.32	peak			
2	1736.788	52.16	-6.08	46.08	74.00	-27.92	peak			
3	2168.725	48.76	-2.75	46.01	74.00	-27.99	peak			
4	2605.477	47.14	-1.06	46.08	74.00	-27.92	peak			
5	3040.803	47.33	-0.51	46.82	74.00	-27.18	peak			
6	3543.157	46.78	0.66	47.44	74.00	-26.56	peak			



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Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: DING #939

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: REMOTE TEMPERATURE GAUGE

Mode: TX

Model: 40145X

Manufacturer: BLUE RHINO GLOBAL SOURCING

Polarization: Vertical

Power Source: DC 3V

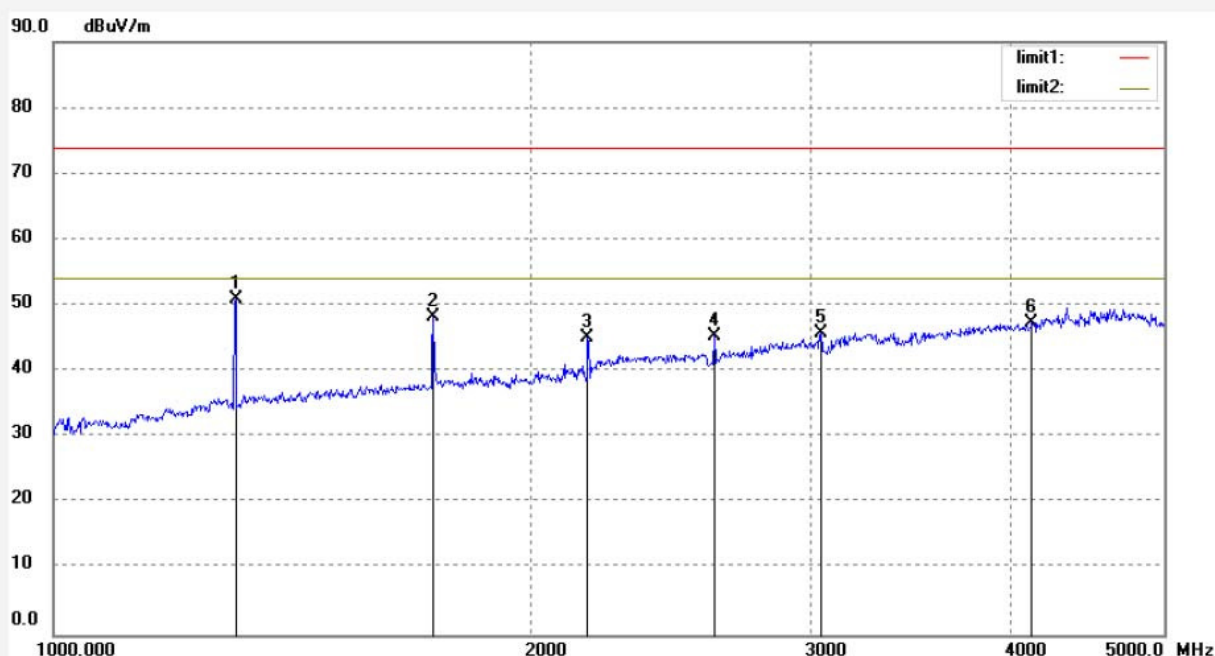
Date: 16/12/13/

Time: 12/40/26

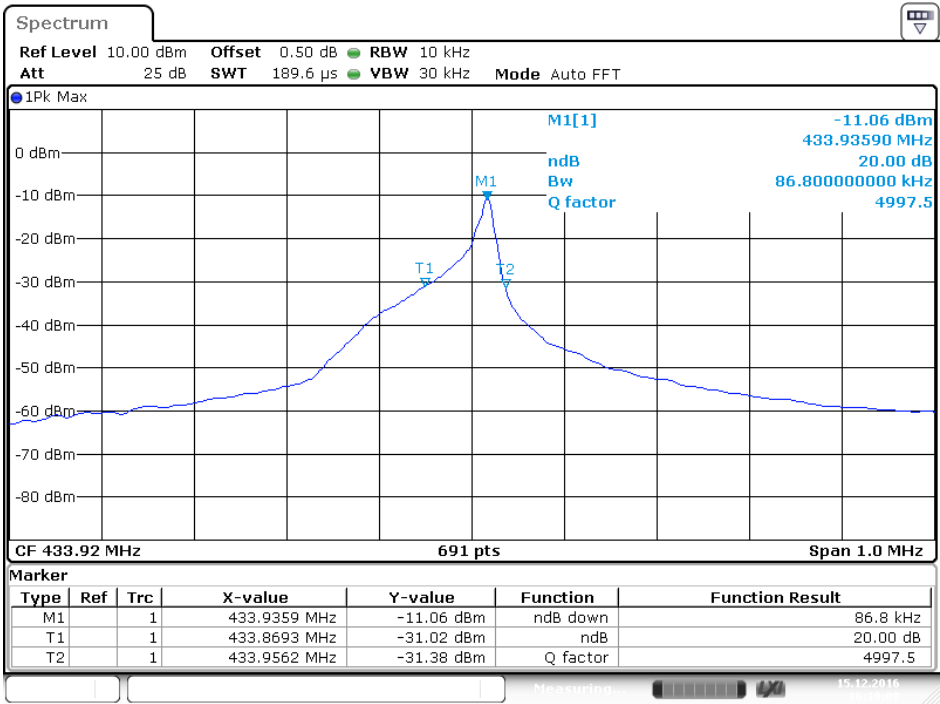
Engineer Signature:

Distance: 3m

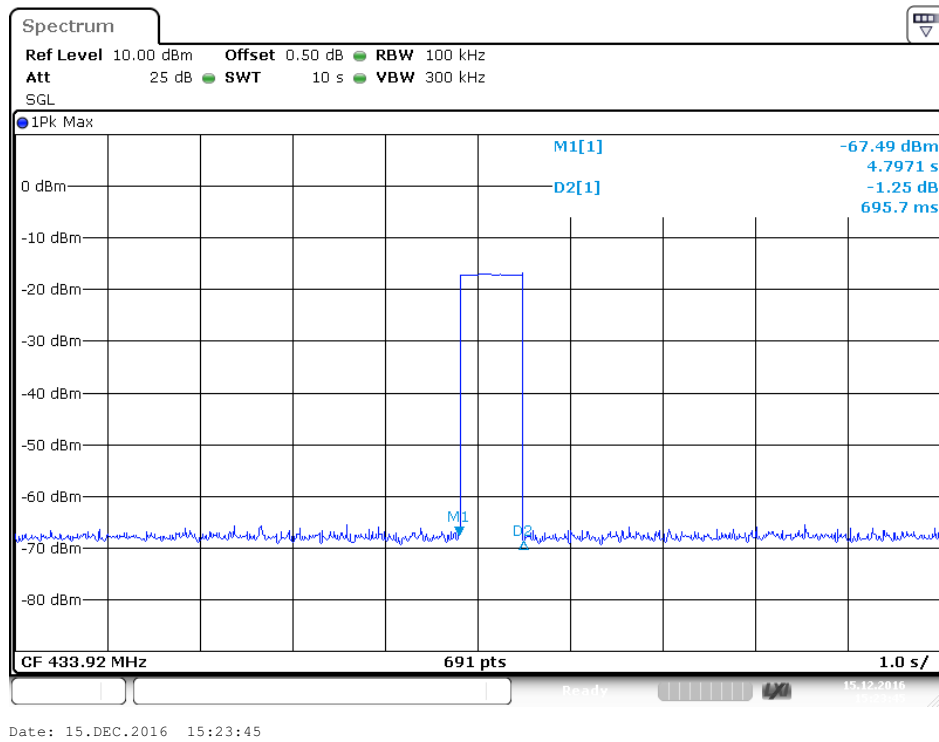
Note: Report NO.:ATE20162561



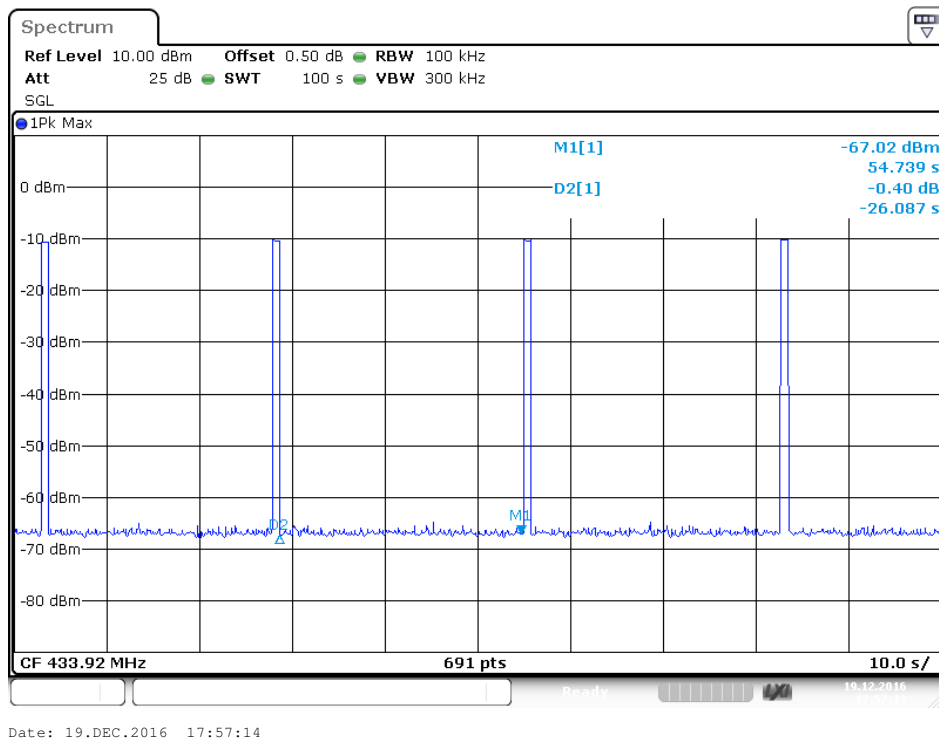
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1302.060	59.57	-8.67	50.90	74.00	-23.10	peak			
2	1733.995	54.31	-6.08	48.23	74.00	-25.77	peak			
3	2168.725	47.96	-2.75	45.21	74.00	-28.79	peak			
4	2605.477	46.34	-1.06	45.28	74.00	-28.72	peak			
5	3040.803	46.23	-0.51	45.72	74.00	-28.28	peak			
6	4128.503	44.76	2.53	47.29	74.00	-26.71	peak			



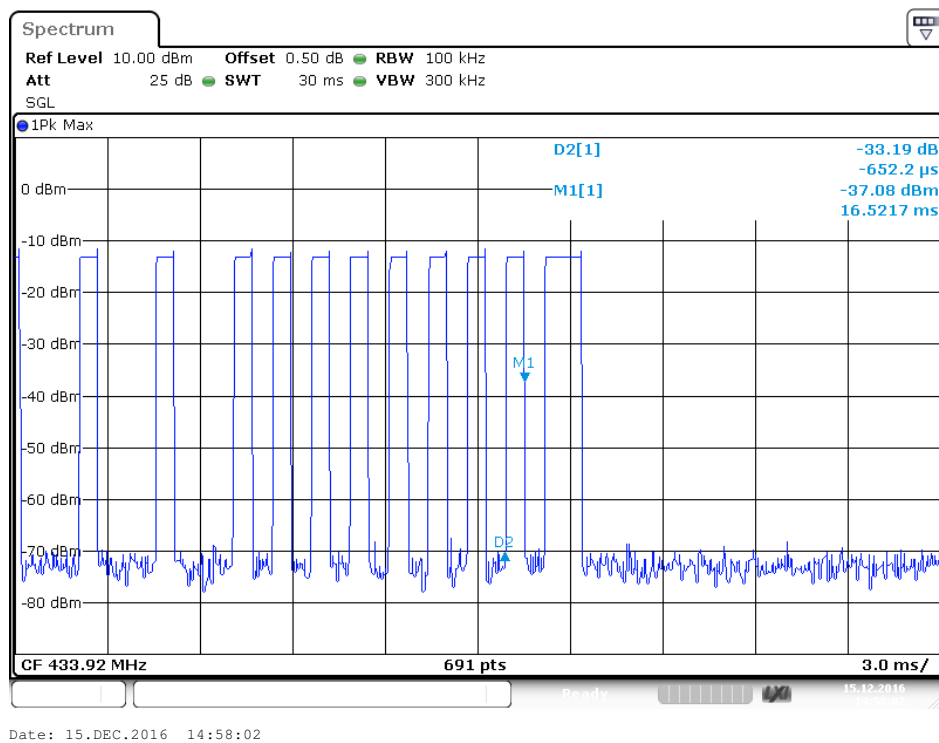
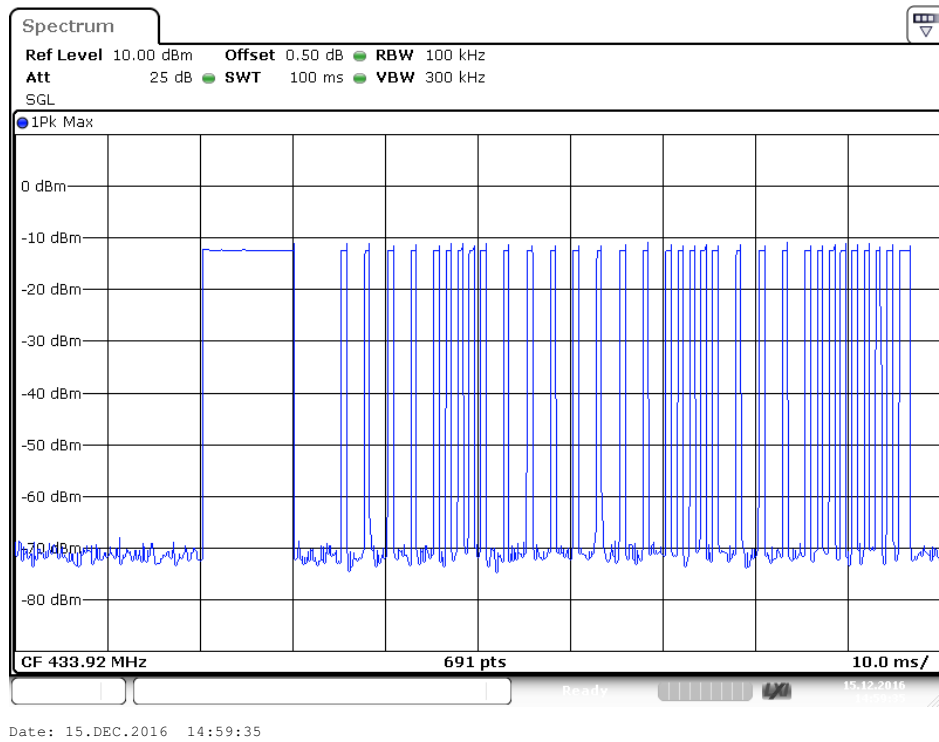
Date: 15.DEC.2016 16:19:08



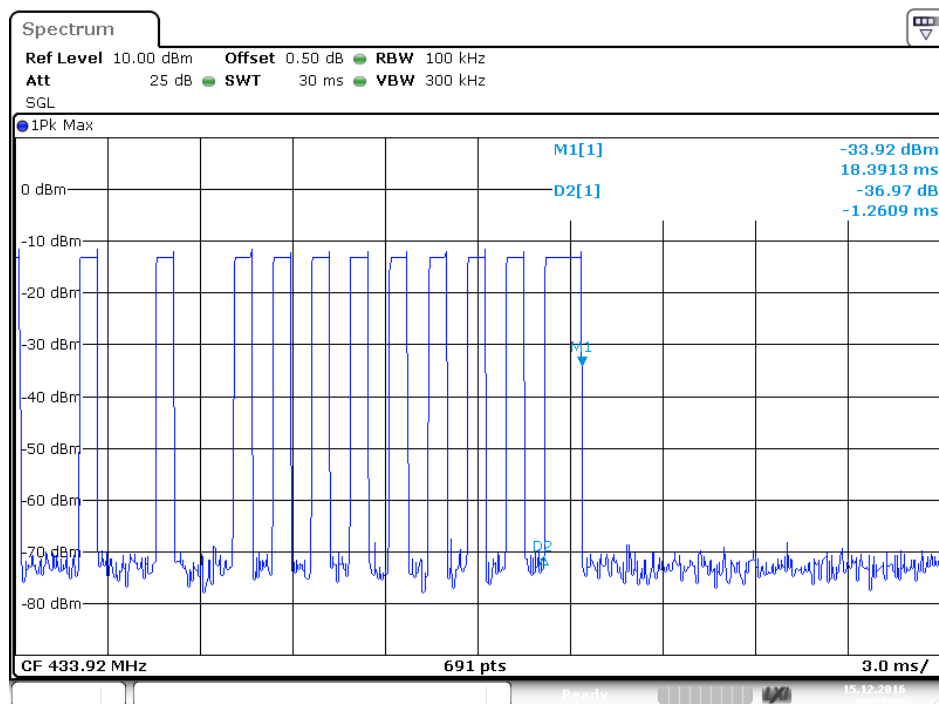
the duration of a transmission Time = 0.6957s



the silent period between transmissions =26.087s

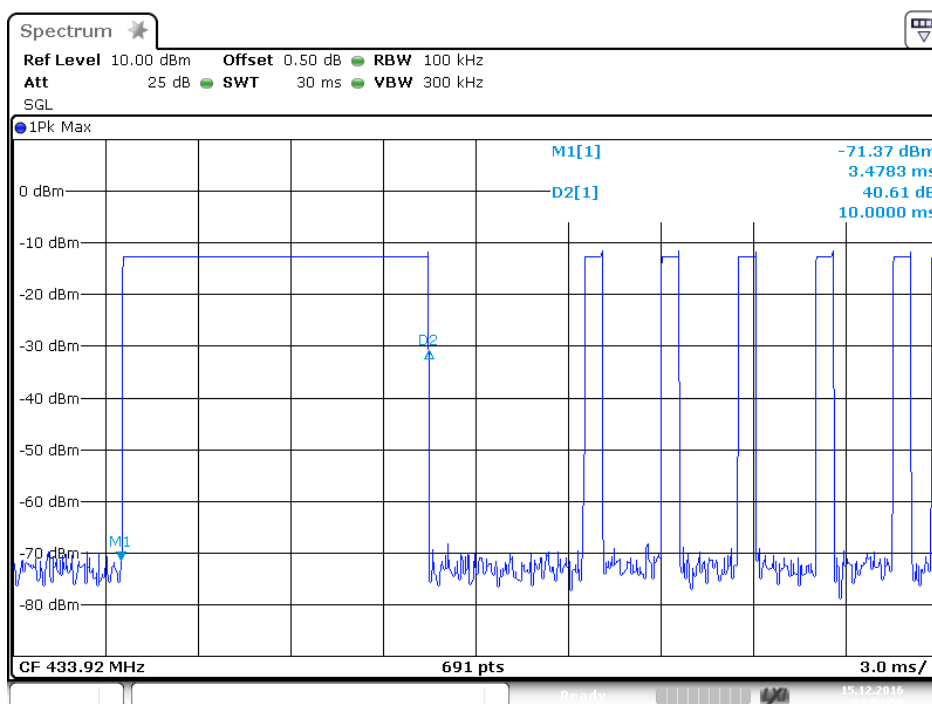


The graph shows the duration of 'on' signal. From marker 1 to Delta 1, duration is 0.6522ms.



Date: 15.DEC.2016 14:57:29

The graph shows the duration of 'on' signal. From marker 1 to Delta 1, duration is 1.2609 ms.



Date: 15.DEC.2016 14:54:59

The graph shows the duration of 'on' signal. From marker 1 to Delta 1, duration is 10 ms.