

APPLICATION CERTIFICATION

On Behalf of
BASE4 Ventures, LLC

Char-Broil Color Change RF Programmable Meat Thermometer

Model No.: 11361, 009-06-0243

FCC ID: 2AXT4-11361

Prepared for : BASE4 Ventures, LLC
Address : 4393 Sunbelt Drive Addison, Texas, 75001

Prepared by : Shenzhen Accurate Technology Co., Ltd.
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Report Number : RTZ200717005-RF
Date of Test : July. 20-Sep. 1, 2020
Date of Report : Sep. 2, 2020

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Test Report Certification

Applicant : BASE4 Ventures, LLC
Address : 4393 Sunbelt Drive Addison, Texas, 75001
Manufacturer : Ningbo Beilun Boming Metal Products Co., Ltd
Address : No.109 Chuangfu Road, Xiaogang Industrial Zone,
Beilun District, Ningbo, China
Product : Char-Broil Color Change RF Programmable Meat Thermometer
Model No. : 11361, 009-06-0243
Trade name : /

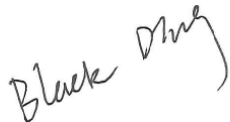
Measurement Procedure Used:

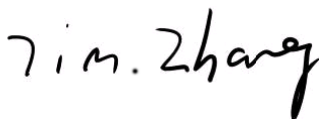
FCC Rules and Regulations Part 15 Subpart C Section 15.231e ANSI C63.10-2013

The device described above is tested by Shenzhen 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 15.231e. The measurement results are contained in this test report and Shenzhen 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 Shenzhen Accurate Technology Co., Ltd.

Date of Test : July. 20-Sep.1, 2020
Date of Report : Sep. 2, 2020

Prepared by : 
(Black Ding, Engineer)

Approved & Authorized Signer : 
(Tim. Zhang, Manager)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT	: Char-Broil Color Change RF Programmable Meat Thermometer
Model Number	: 11361, 009-06-0243
Power Supply	: DC 3V (Powered by Battery)
Modulation Mode	: OOK
Operation Frequency	: 433.98MHz
Antenna type	: Integral Antenna
Antenna gain	: 2.15dBi
RF power setting in test	: Max power
Applicant	: BASE4 Ventures, LLC
Address	: 4393 Sunbelt Drive Addison, Texas, 75001
Manufacturer	: Ningbo Beilun Boming Metal Products Co., Ltd
Address	: No.109 Chuangfu Road, Xiaogang Industrial Zone, Beilun District, Ningbo, China
Date of sample received	: July 20, 2020
Date of Test	: July. 20-Sep.1, 2020
Sample No.	: RTZ200717005-RF-S1

1.2. Accessory and Auxiliary Equipment

N/A

1.3. Model difference declaration

11361, 009-06-0243 are identical in interior structure, electrical circuits and components, and just model number is different for the marketing requirement.

1.4. Description of Test Facility

EMC Lab	: Recognition of accreditation by Federal Communications Commission (FCC) The Designation Number is CN1189 The Registration Number is 708358 Listed by Innovation, Science and Economic Development Canada (ISED) The Registration Number is 5077A-2 Accredited by China National Accreditation Service for Conformity Assessment (CNAS) The Registration Number is CNAS L3193 Accredited by American Association for Laboratory Accreditation (A2LA) The Certificate Number is 4297.01
Name of Firm	: Shenzhen Accurate Technology Co., Ltd.
Site Location	: 1/F., Building A, Changyuan New Material Port, Science & Industry Park, Nanshan District, Shenzhen, Guangdong, P.R. China

1.5. Measurement Uncertainty

Radiated emission expanded uncertainty (30MHz-1000MHz)	: U=4.28dB, k=2
Radiated emission expanded uncertainty (1G-18GHz)	: U=4.98dB, k=2

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	ESR	101817	Jan. 04, 2020	One Year
EMI TEST RECEIVER	Rohde&Schwarz	ESPI	101526/003	Jan. 04, 2020	One Year
Spectrum Analyzer	Rohde&Schwarz	FSV40	101495	Jan. 04, 2020	One Year
Pre-Amplifier	Agilent	8447D	2944A10619	Jan. 04, 2020	One Year
Pre-Amplifier	Rohde&Schwarz	CBLU118354 0-01	3791	Jan. 04, 2020	One Year
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	Jan. 05, 2020	One Year
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-1067	Jan. 05, 2020	One Year
50 Coaxial Switch	Anritsu Corp	MP59B	6100237248	Jan. 04, 2020	One Year
RF Coaxial Cable	SUHNER	N-6m	No.10	N/A	N/A
RF Coaxial Cable	SUHNER	N-3m	No.8	N/A	N/A
RF Coaxial Cable	SUHNER	N-2m	No.13	N/A	N/A
RF Coaxial Cable	SUHNER	N-0.5m	No.15	N/A	N/A
Highpass Filter	Mini-Circuits	NHP-600+	N/A	N/A	N/A

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 automatic operated Char-Broil Color Change RF Programmable Meat Thermometer.

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

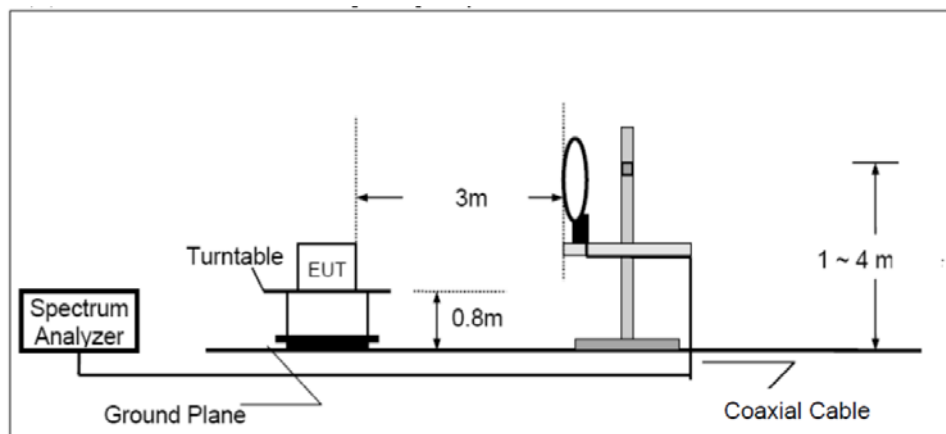
4.1.1. Block diagram of connection between the EUT and simulators



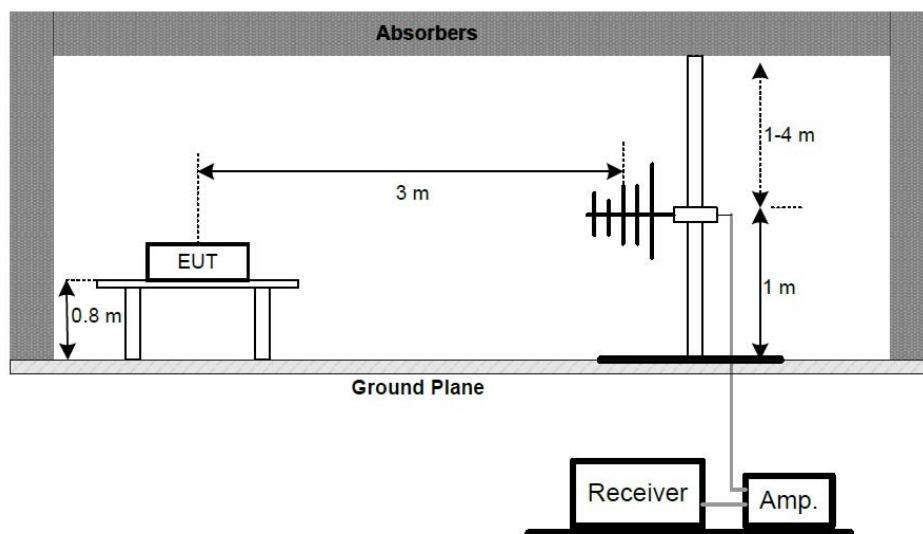
(EUT: Char-Broil Color Change RF Programmable Meat Thermometer)

4.1.2. Semi-Anechoic Chamber Test Setup Diagram

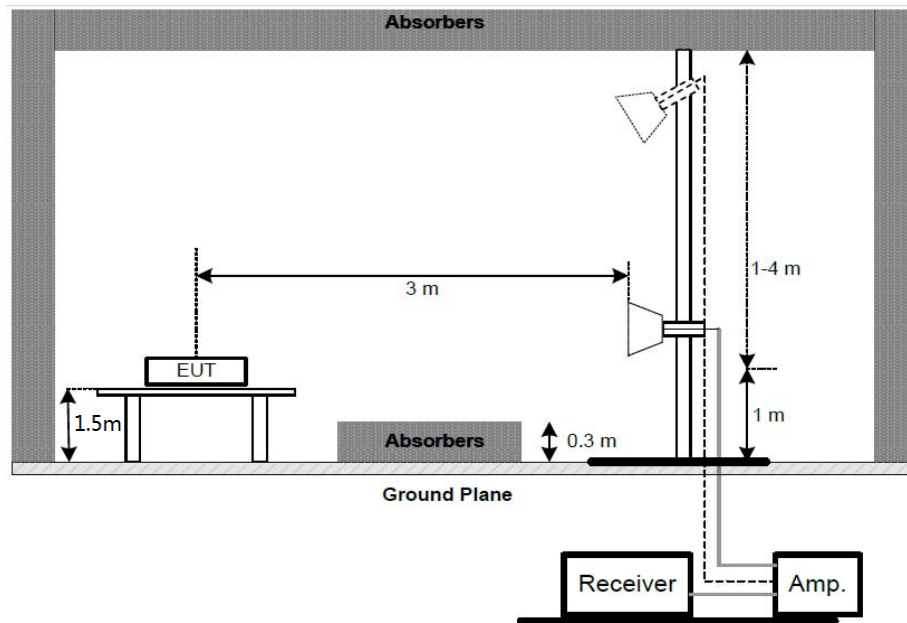
(A) Radiated Emission Test Set-Up, Frequency below 30MHz



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



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



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.

Where F is the frequency in MHz, the formulas for calculating the maximum permitted fundamental field strengths are as follows: for the band 130-174 MHz, $\mu\text{V/m}$ at 3 meters = $22.73(F) - 2454.55$; for the band 260-470 MHz, $\mu\text{V/m}$ at 3 meters = $16.67(F) - 2833.33$. The maximum permitted unwanted emission level is 20 dB below the maximum permitted fundamental level.

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 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. This EUT was tested in 3 orthogonal positions and the worst case position data was reported.

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

4.6. The Field Strength of Radiation Emission Measurement Results

PASS.

The frequency range from 30 MHz to 5GHz is checked.

EUT :		Char-Broil Color Change RF Programmable Meat Thermometer								
Model No. :		11361				Power Supply :		DC 3V		
Test Mode :		TX				Test Engineer :		Black		
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	
433.980	82.44	-6.96	-6.14	69.34	75.48	72.87	92.87	-3.53	-17.39	Horizontal
867.960	31.70	0.04	-6.14	25.60	31.74	52.87	72.87	-27.27	-41.13	
1301.332	51.17	-6.17	-6.14	38.86	45.00	52.87	72.87	-14.01	-27.87	
1735.939	47.54	-3.58	-6.14	37.82	43.96	52.87	72.87	-15.05	-28.91	
2168.510	50.57	-0.25	-6.14	44.18	50.32	52.87	72.87	-8.69	-22.55	
2603.351	43.99	1.43	-6.14	39.28	45.42	52.87	72.87	-13.59	-27.45	
3037.912	44.27	1.97	-6.14	40.10	46.24	52.87	72.87	-12.77	-26.53	
4339.883	43.08	5.10	-6.14	42.04	48.18	52.87	72.87	-10.83	-24.69	
433.980	71.38	-6.96	-6.14	58.28	64.42	72.87	92.87	-14.59	-28.45	Vertical
867.960	31.91	0.04	-6.14	25.81	31.95	52.87	72.87	-27.06	-40.92	
1301.332	51.30	-6.17	-6.14	38.99	45.13	52.87	72.87	-13.88	-27.74	
2168.996	46.58	-0.25	-6.14	40.19	46.33	52.87	72.87	-12.68	-26.54	
2603.351	45.34	1.43	-6.14	40.63	46.77	52.87	72.87	-12.24	-26.10	
3037.512	45.58	1.97	-6.14	41.41	47.55	52.87	72.87	-11.46	-25.32	
3471.967	44.45	2.87	-6.14	41.18	47.32	52.87	72.87	-11.69	-25.45	
4339.961	44.46	5.10	-6.14	43.42	49.56	52.87	72.87	-9.45	-23.31	

Note:

1. 9 kHz~30 MHz Field Strength of Unwanted Emissions. Peak or Quasi-Peak measurement. The measurements with active loop antenna were greater than 20dB below the limit, so the test data were not recorded in the test report.
2. Emissions attenuated more than 20 dB below the permissible value are not reported.
3. 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
4. FCC Limit for Average Measurement = $16.67 \times (433.98) - 2833.33 = 4401.1166 \mu\text{V/m} = 72.87 \text{ dB}\mu\text{V/m}$
5. The spectral diagrams in appendix I display the measurement of peak values.
6. Average value= PK value + Average Factor (duty factor)

7. 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.

8. The EUT is tested radiation emission in three axes(X,Y,Z). The worst emissions are reported in three axes.

9. Pulse Desensitization Correction Factor

Pulse Width (PW) = 0.58ms

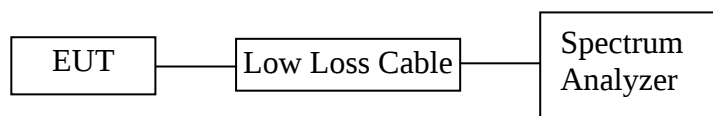
$2/PW = 2/0.58\text{ms} = 3.45\text{kHz}$

RBW (100kHz) > 2/PW (3.45kHz)

Therefore PDCF is not needed.

5. 20DB OCCUPIED BANDWIDTH

5.1. Block Diagram of Test Setup



(EUT: Char-Broil Color Change RF Programmable Meat Thermometer)

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 $433.98\text{MHz} \times 0.25\% = 1.0849\text{MHz}$. Bandwidth is determined at the two points 20 dB down from the top of modulated carrier.

5.3. EUT Configuration on Measurement

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

5.6.Measurement Result

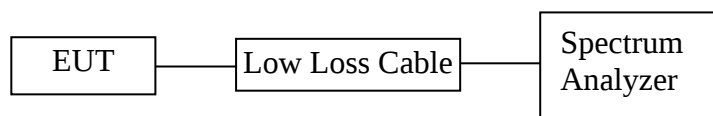
The EUT does meet the FCC requirement.

-20 dB bandwidth =0.0492MHz <1.0849MHz.

The spectral diagrams in appendix I.

6. RELEASE TIME MEASUREMENT

6.1. Block Diagram of Test Setup



(EUT: Char-Broil Color Change RF Programmable Meat Thermometer)

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 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 and press Transmitter button.

6.5.3. Set SPA View. Delta Mark time.

6.6. Measurement Result

Test result: pass

Transmission Period = 236ms = 0.236s

Silent Period = 11.51s

Silent period complies with 15.231(e) limits , as silent period = 11.51s > 30*0.236s
and > 10s

The spectral diagrams in appendix I.

7. AVERAGE FACTOR MEASUREMENT

7.1. Block Diagram of Test Setup



(EUT: Char-Broil Color Change RF Programmable Meat Thermometer)

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 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 = $49 \times 0.58\text{ms} + 19 \times 1.1\text{ms} = 49.32\text{ms}$

DC = $49.32\text{ms} / 100\text{ms} = 0.4932 = 49.32\%$

Therefore, the average factor is found by $20\log 0.4932 = -6.14\text{dB}$

The spectral diagrams in appendix I.

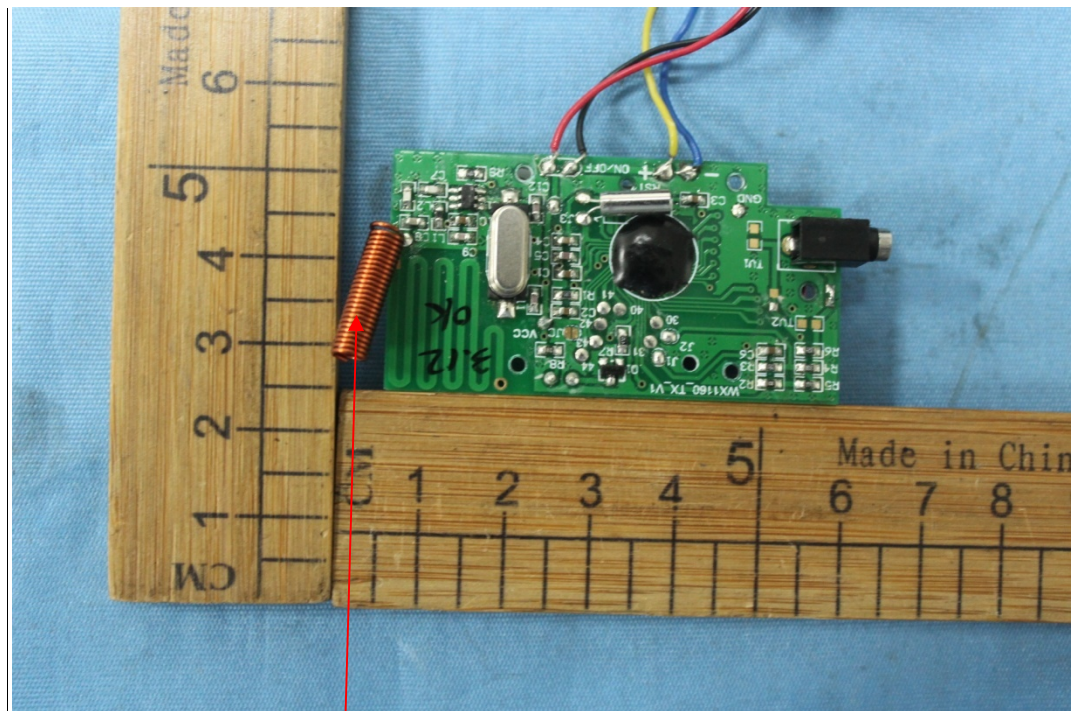
8. ANTENNA REQUIREMENT

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 Antenna gain of EUT is 2.15dBi. 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 #1455

Standard: FCC 15.231e 3M Radiated

Test item: Radiation Test

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

EUT: Char-Broil Color Change RF Programmable Meat Thermometer

Mode: TX

Model: 11361

Manufacturer: Ningbo Beilun Boming Metal Products Co., Ltd

Polarization: Horizontal

Power Source: DC 3V

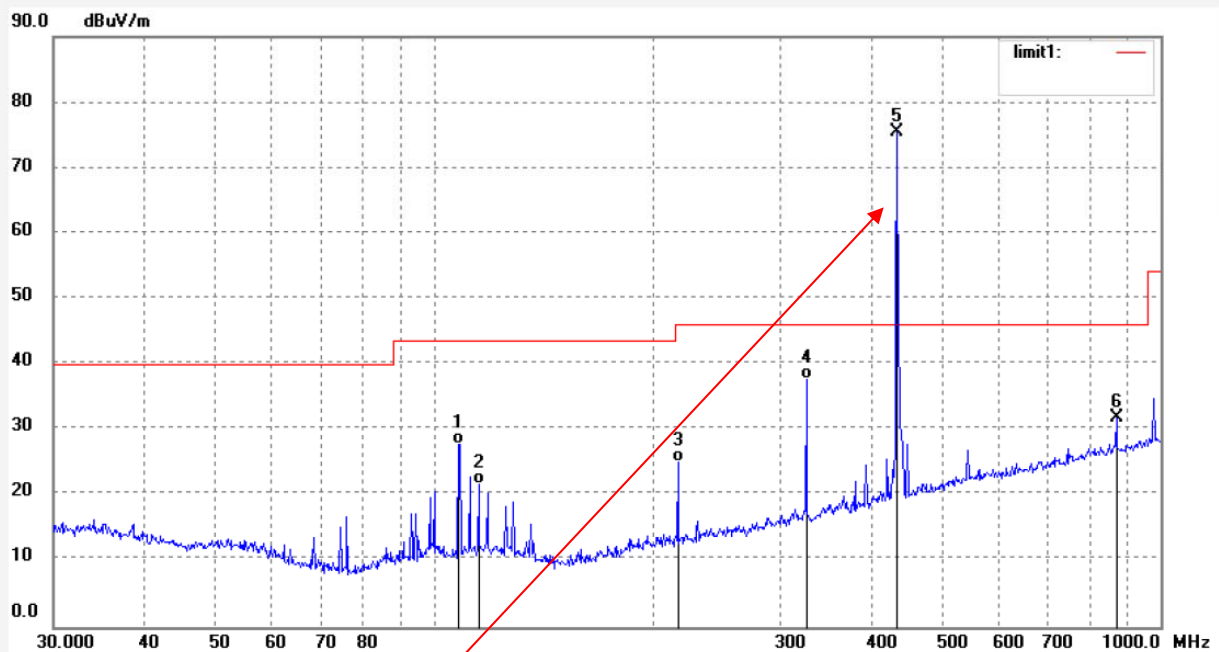
Date: 2020/08/31/

Time: 15/58/45

Engineer Signature: Black

Distance: 3m

Note: Report no.:RTZ200717005-RF



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	108.2667	42.78	-14.91	27.87	43.50	-15.63	QP	100	147	
2	115.3205	35.95	-14.15	21.80	43.50	-21.70	QP	100	52	
3	216.7828	37.94	-12.81	25.13	46.00	-20.87	QP	100	38	
4	325.5958	47.24	-9.51	37.73	46.00	-8.27	QP	100	119	
5	433.9800	82.44	-6.96	75.48	92.87	-17.39	peak	100	156	
6	867.9600	31.70	0.04	31.74	72.87	-41.13	peak	100	213	

Fundamental frequency



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 #1456

Standard: FCC 15.231e Radiated

Test item: Radiation Test

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

EUT:Char-Broil Color Change RF Programmable Meat Thermometer

Mode: TX

Model: 11361

Manufacturer: Ningbo Beilun Boming Metal Products Co., Ltd

Polarization: Vertical

Power Source: DC 3V

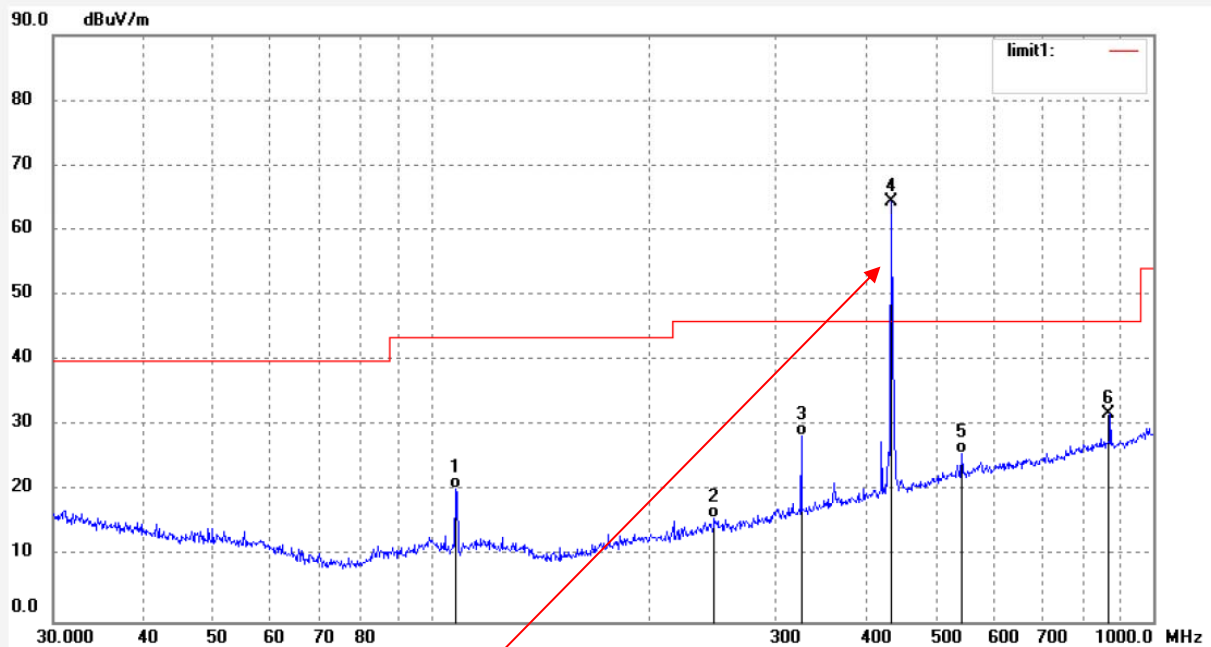
Date: 2020/08/31/

Time: 16/05/19

Engineer Signature: Black

Distance: 3m

Note: Report no.:RTZ200717005-RF



Fundamental frequency



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 #1453

Standard: FCC 15.231e Radiated

Test item: Radiation Test

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

EUT: Char-Broil Color Change RF Programmable Meat Thermometer

Mode: TX

Model: 11361

Manufacturer: Ningbo Beilun Boming Metal Products Co., Ltd

Polarization: Horizontal

Power Source: DC 3V

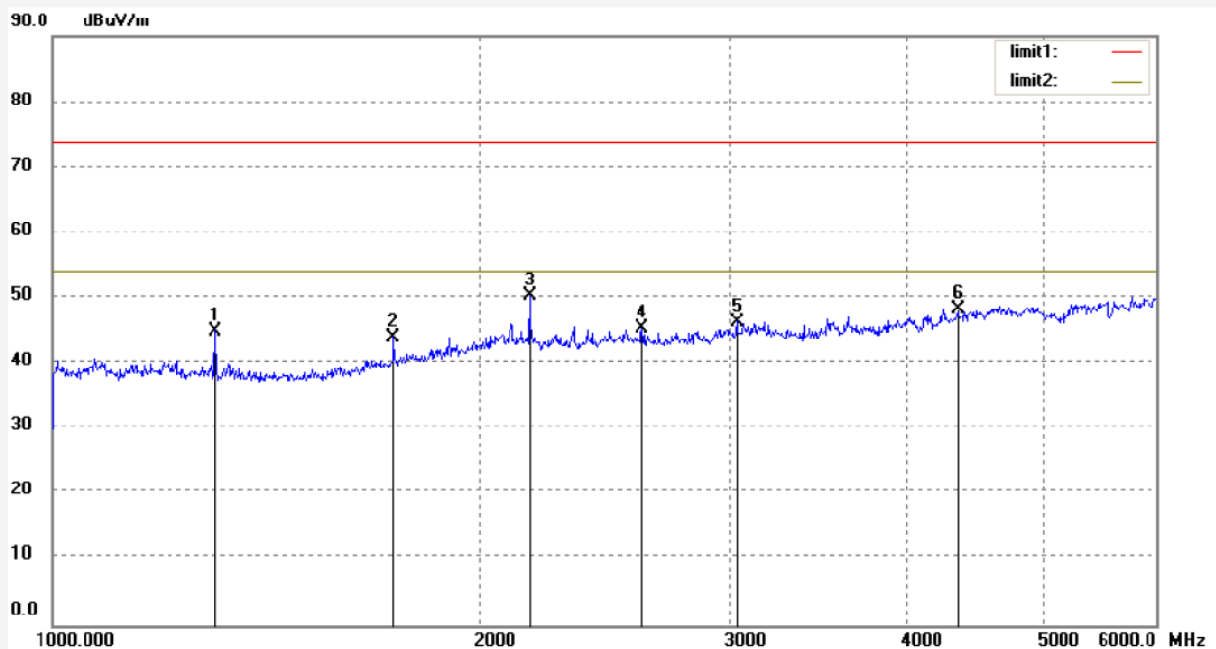
Date: 2020/08/31/

Time: 9/58/43

Engineer Signature: Black

Distance: 3m

Note: Report no.:RTZ200717005-RF



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1301.332	51.17	-6.17	45.00	72.87	-27.87	peak	150	72	
2	1735.939	47.54	-3.58	43.96	72.87	-28.91	peak	150	45	
3	2168.510	50.57	-0.25	50.32	72.87	-22.55	peak	300	221	
4	2603.351	43.99	1.43	45.42	72.87	-27.45	peak	150	237	
5	3037.912	44.27	1.97	46.24	72.87	-26.53	peak	150	152	
6	4339.883	43.08	5.10	48.18	72.87	-24.69	peak	150	179	



ACCURATE TECHNOLOGY CO., LTD.

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Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: ding #1454

Standard: FCC 15.231e

Test item: Radiation Test

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

EUT: Char-Broil Color Change RF Programmable Meat Thermometer

Mode: TX

Model: 11361

Manufacturer: Ningbo Beilun Boming Metal Products Co., Ltd

Polarization: Vertical

Power Source: DC 3V

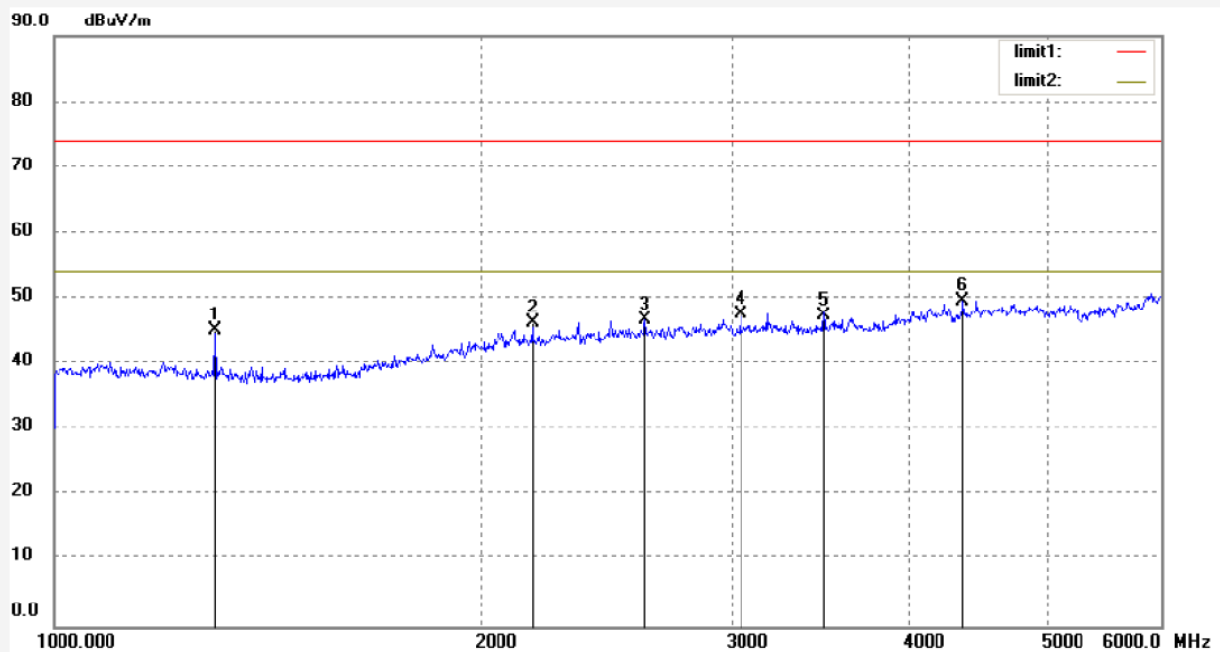
Date: 2020/08/31/

Time: 10/00/18

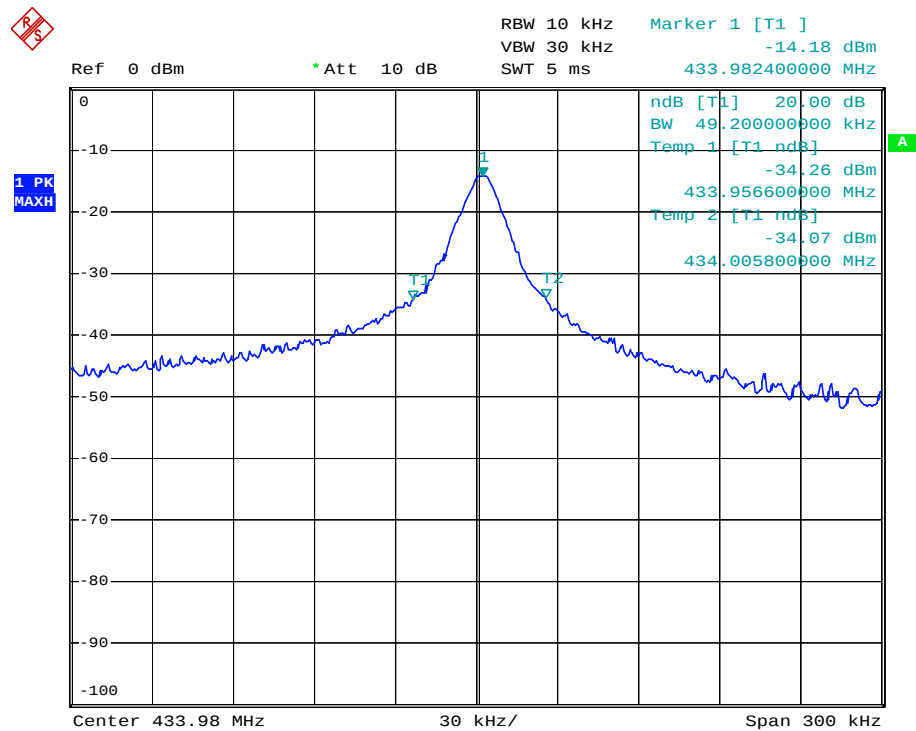
Engineer Signature: Black

Distance: 3m

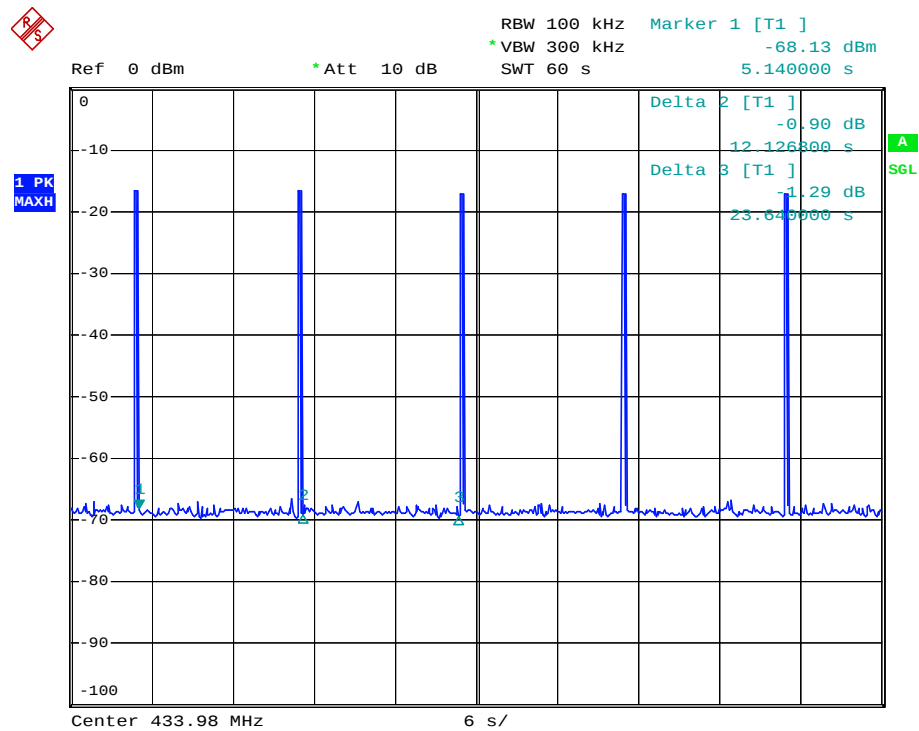
Note: Report no.:RTZ200717005-RF



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1301.332	51.30	-6.17	45.13	72.87	-27.74	peak	150	78	
2	2168.996	46.58	-0.25	46.33	72.87	-26.54	peak	150	254	
3	2603.351	45.34	1.43	46.77	72.87	-26.10	peak	150	147	
4	3037.512	45.58	1.97	47.55	72.87	-25.32	peak	150	123	
5	3471.967	44.45	2.87	47.32	72.87	-25.45	peak	150	241	
6	4339.961	44.46	5.10	49.56	72.87	-23.31	peak	150	318	

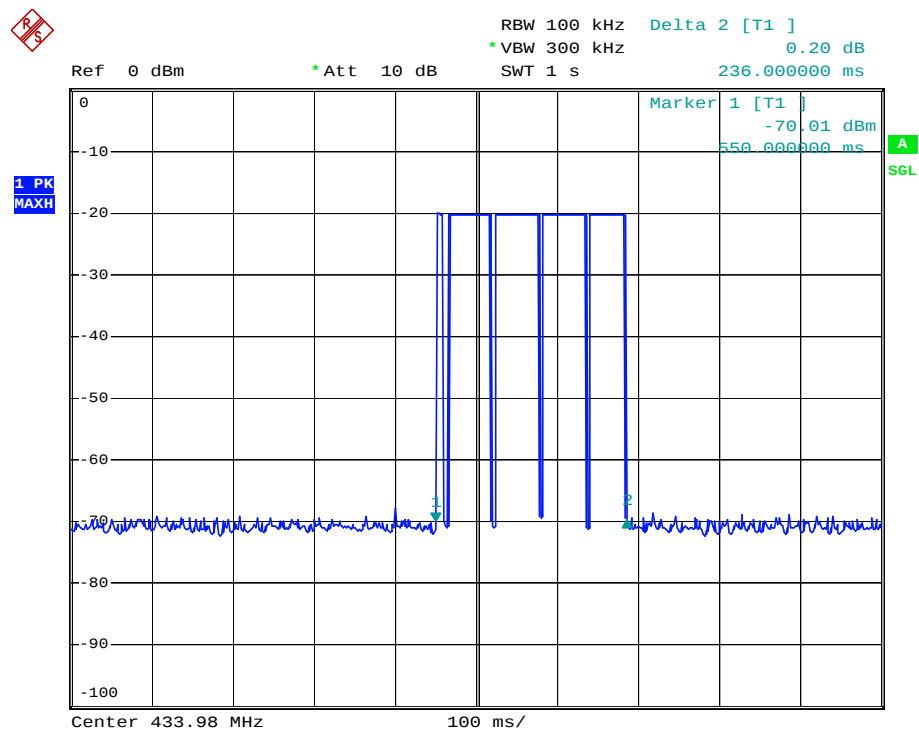


Date: 21.JUL.2020 09:11:41



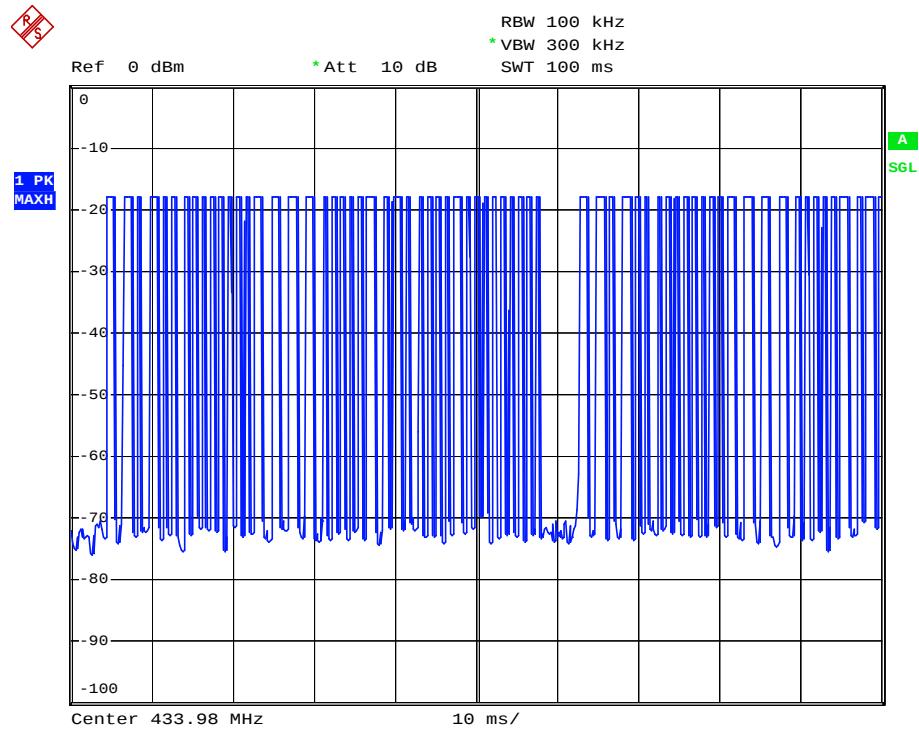
Date: 21. JUL. 2020 09:47:14

The period between transmissions = 11.51s

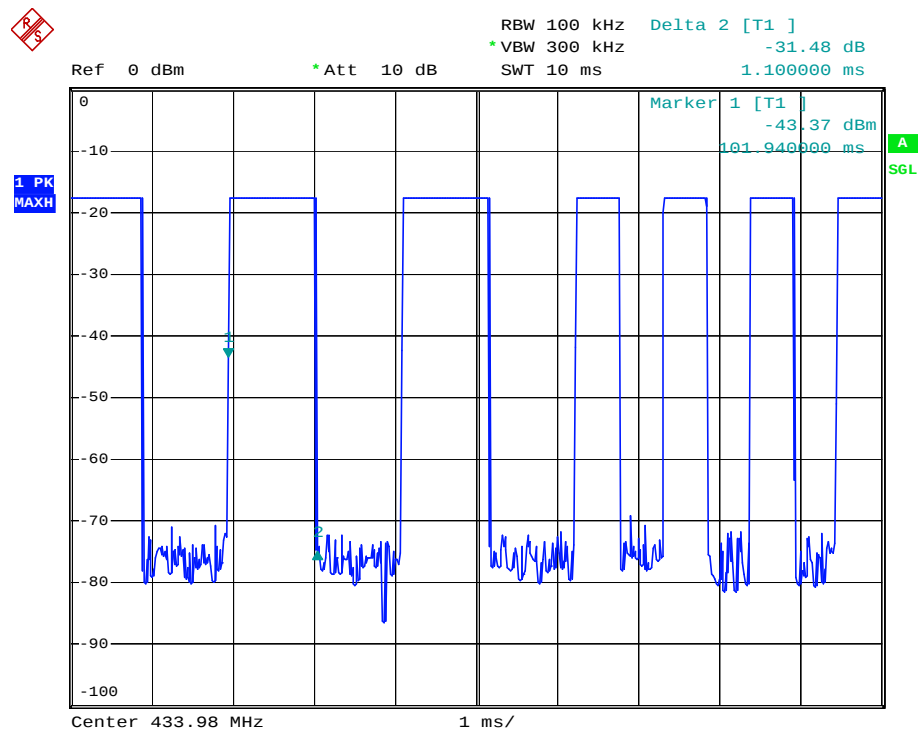


Date: 21. JUL. 2020 09:18:45

The graph shows the duration of 'on' signal. From marker 1 to Delta 2, duration is 236ms

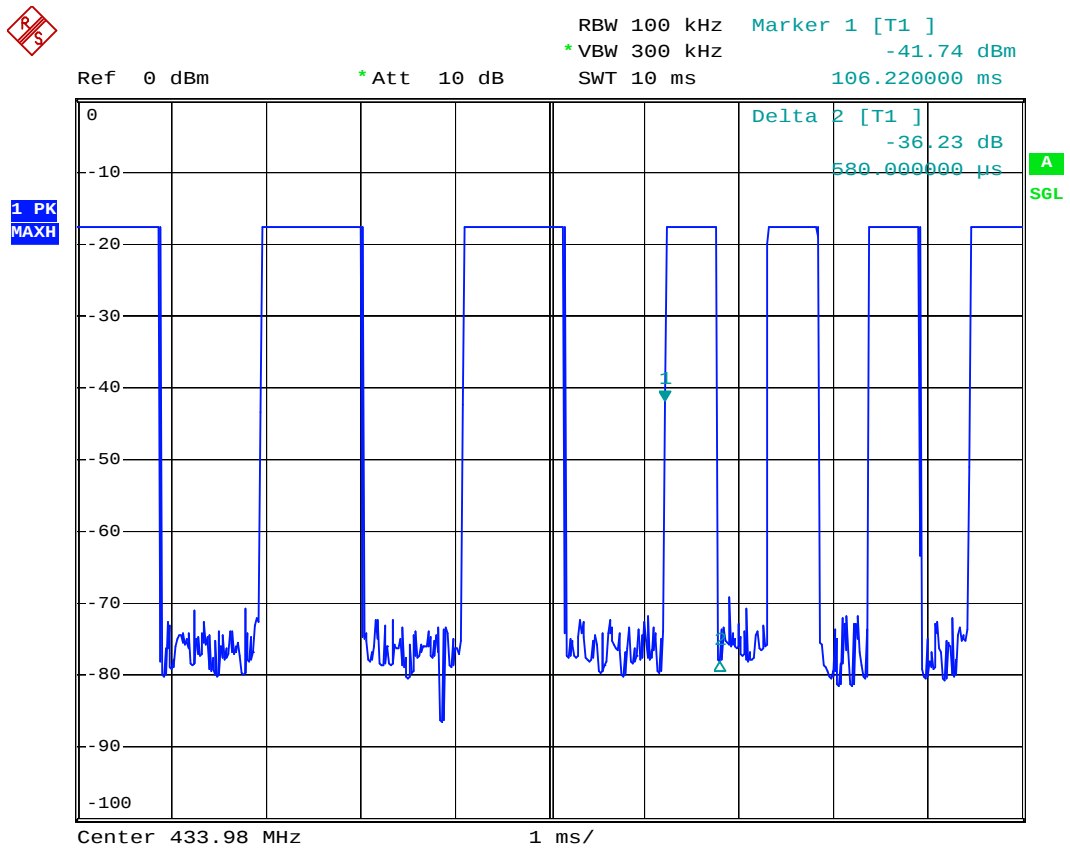


Date: 21.JUL.2020 09:20:11



Date: 21.JUL.2020 09:22:19

The graph shows the duration of 'on' signal. From marker 1 to Delta 2, duration is 1.1ms.



Date: 21.JUL.2020 09:23:14

The graph shows the duration of 'on' signal. From marker 1 to Delta 2, duration is 0.58ms.

***** End of Test Report *****