



Hong Kong

## FCC – Test report

Report Number : 60/760.10.122.01 Date of Issue: 05 July 2010

Model : THGN132ES, THN132ES

Product Type : 3 Channel Remote Sensor with Solar Panel

Applicant : IDT Technology Limited

Address : Block C, 9/F, Kaiser Estate, Phase 1, 41 Man Yue Street,  
Hungghom, Kowloon, Hong Kong

Production Facility : IDT Technology Limited

Address : Block C, 9/F, Kaiser Estate, Phase 1, 41 Man Yue Street,  
Hungghom, Kowloon, Hong Kong

Test Result :  Positive  Negative

Total pages including Appendices : 32

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## 2 Details about the Test Laboratory

### Details about the Test Laboratory

Company name: TÜV SÜD HONG KONG LTD.  
3/F, West Wing, Lakeside 2,  
10 Science Park West Avenue,  
Science Park, Shatin  
HK.

Telephone: 852 2776 1323  
Fax: 852 2776 1372

Company name: Neutron Engineering Inc.  
3, Jinshagang 1st Road,  
ShiXia, Dalang Town,  
DongGuan, China

FCC Registered Test Site Number 319330



### 3 Description of the Equipment Under Test

#### Description of the Equipment Under Test

Product: 3 Channel Remote Sensor with Solar Panel

Model no.: THGN132ES, THN132ES

Serial number: NIL

Options and accessories: NIL

Rated Voltage: 1.5 VDC

Rated Current: NIL

Rated Power: NIL

Frequency: NIL

Description of the EUT: Operate by battery only  
(1 x 1.5VDC AAA size battery)

Operated Frequency: 433.92MHz

#### 4 Summary of Test Standards and Results

Emission Tests						
Test Condition	Test Requirement	Test Method	Pages	Test Result		
				Pass	Fail	N/A
Radiated Emission (Fundamental & Spurious Emission)	FCC Part 15 Section 15.231 & 15.209	ANSI C63.4:2003	7-24	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Conducted Emission on AC 150kHz to 30MHz	FCC Part 15 Section 15.207	ANSI C63.4:2003	NIL	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>



Hong Kong

## 5 General Remarks

### Remarks

Client informs that the 3 Channel Remote Sensor with Solar Panel, THN132ES has the same technical construction including circuit, PCB layout, components and component layout, all electrical construction and basic mechanical construction, with 3 Channel Remote Sensor with Solar Panel, THGN132ES. The difference lies in the sensor, model THN132ES without the Hygro function.

EMC tests were performed on model THGN132ES.

### SUMMARY:

All tests according to the regulations cited on page 5 were

- Performed

- Not Performed

The Equipment Under Test

- Fulfills the general approval requirements.

- Does not fulfill the general approval requirements.

Sample Received Date: 01 June 2010

Testing Start Date: 01 June 2010

Testing End Date: 22 June 2010

- TÜV SÜD HONG KONG LTD. -

Reviewed by:

Edmond FUNG  
EMC Test Engineer

Prepared by:



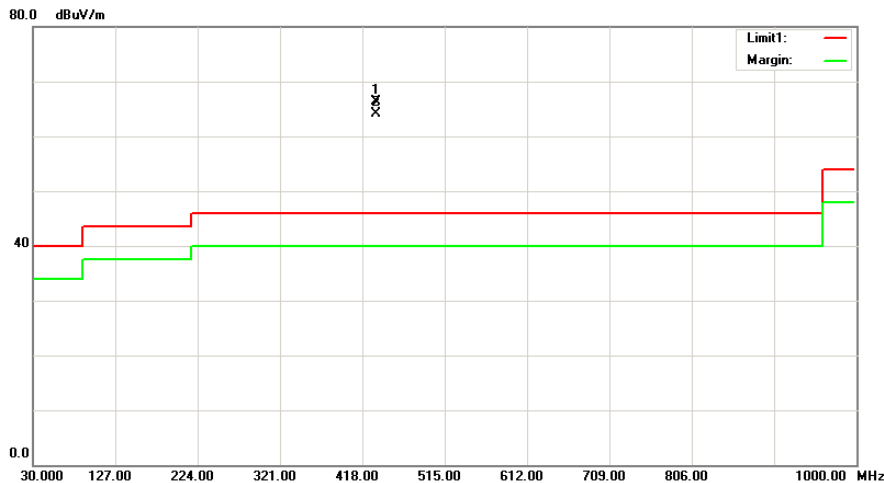
Cheng Kin Yeung  
EMC Test Engineer

## 6 Emission Test Results

### 6.1 Radiated Emission Test (Fundamental)

Date of test : 26 June 2010  
 Test requirement : FCC Part 15 Section 15.231  
 Test method : ANSI C63.4:2003  
 Operating mode : On mode  
 Antenna polarity : Horizontal  
 Remarks : NIL

Test Result	
<input checked="" type="checkbox"/>	Passed
<input type="checkbox"/>	Not Passed



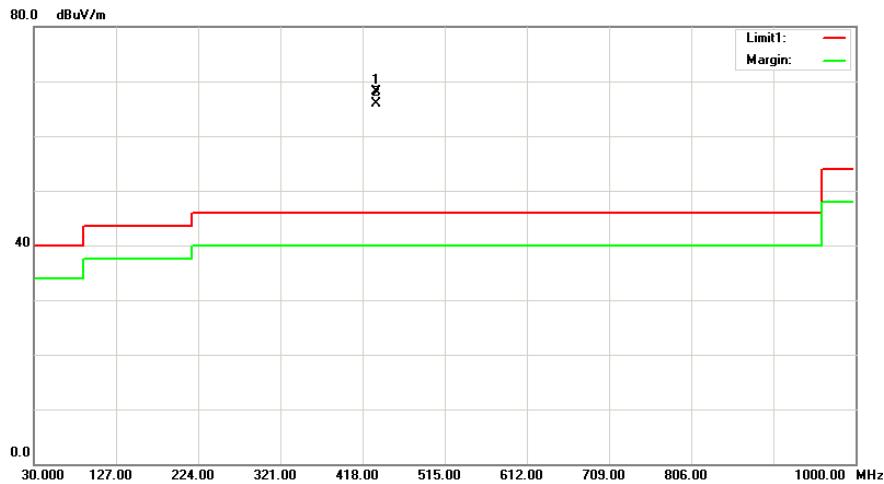
Freq. (MHz)	Ant. Pol. H/V	Reading		Ant./CF CF(dB)	Average factor (dB)	Act.		Limit	
		Peak (dBuV/m)				Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)
433.93	H	78.38		12.08	7.17	66.30	59.13	92.87	72.87

Remark: The EUT was placed on the top of the turntable in test site area.  
 The resolution bandwidth setting on the test receiver was 120 KHz , Detector function peak (30 MHz~1000MHz).  
 The resolution bandwidth setting on the test receiver was 1MHz, Detector function peak (1 GHz~5GHz).  
 The test shall be made in the operation mode. The turntable was rotated by 360 degrees to determine the position of the highest radiation.  
 For emissions measurement, the receiving antenna was placed 3 meters far away from the turntable.  
 The antenna was fixed on the same height with the EUT to find each suspected emissions of both horizontal and vertical polarization.  
 Adjust the emission and slightly rotate the turntable to locate the position with maximum reading.  
 Adjust the emission and slightly height of the antenna to locate the position with maximum reading.  
 Data of measurement within this frequency range shown " \* " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

### Radiated Emission Test (Fundamental)

Date of test : 26 June 2010  
 Test requirement : FCC Part 15 Section 15.231  
 Test method : ANSI C63.4:2003  
 Operating mode : On mode  
 Antenna polarity : Vertical  
 Remarks : NIL

<b>Test Result</b>	
<input checked="" type="checkbox"/>	Passed
<input type="checkbox"/>	Not Passed



Freq. (MHz)	Ant. Pol. H/V	Reading		Ant./CF CF(dB)	Average factor (dB)	Act.		Limit	
		Peak (dBuV/m)				Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)
<b>433.93</b>	<b>V</b>	<b>80.26</b>		<b>12.08</b>	<b>7.17</b>	<b>68.18</b>	<b>61.01</b>	<b>92.87</b>	<b>72.87</b>

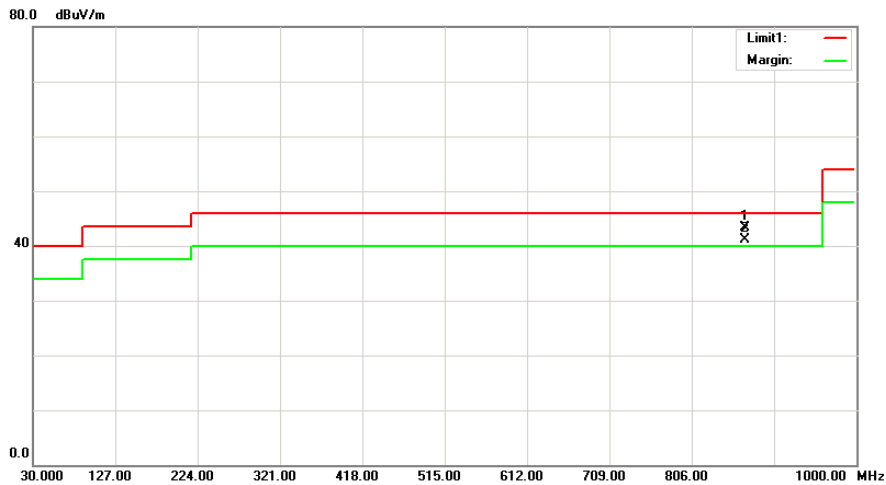
Remark: The EUT was placed on the top of the turntable in test site area.  
 The resolution bandwidth setting on the test receiver was 120 KHz , Detector function peak (30 MHz~ 1000MHz).  
 The resolution bandwidth setting on the test receiver was 1MHz, Detector function peak (1 GHz~5GHz).  
 The test shall be made in the operation mode. The turntable was rotated by 360 degrees to determine the position of the highest radiation.  
 For emissions measurement, the receiving antenna was placed 3 meters far away from the turntable.  
 The antenna was fixed on the same height with the EUT to find each suspected emissions of both horizontal and vertical polarization.  
 Adjust the emission and slightly rotate the turntable to locate the position with maximum reading.  
 Adjust the emission and slightly height of the antenna to locate the position with maximum reading.  
 Data of measurement within this frequency range shown " \* " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.



**Radiated Emission Test 9kHz - 26500MHz**

Date of test : 26 June 2010  
 Test requirement : FCC Part 15 Section 15.209  
 Test method : ANSI C63.4:2003  
 Operating mode : On mode  
 Antenna polarity : Horizontal  
 Remarks : NIL

<b>Test Result</b>	
<input checked="" type="checkbox"/>	Passed
<input type="checkbox"/>	Not Passed



Freq. (MHz)	Ant. Pol. H/V	Reading	Ant./CF CF(dB)	Act.	Limit	Note
		Peak (dBuV/m)		Peak (dBuV/m)	Peak (dBuV/m)	
<b>867.87</b>	<b>H</b>	<b>46.50</b>	<b>3.25</b>	<b>43.25</b>	<b>52.87</b>	<b>X/F</b>

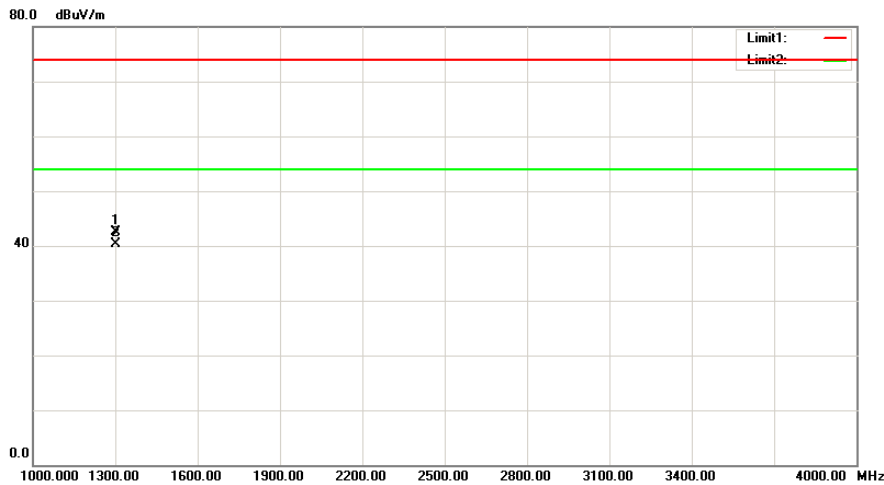
Remark: The EUT was placed on the top of the turntable in test site area.  
 The resolution bandwidth setting on the test receiver was 120 KHz, Detector function peak (30 MHz~1000MHz).  
 The resolution bandwidth setting on the test receiver was 1MHz, Detector function peak (1 GHz~5GHz).  
 The test shall be made in the operation mode. The turntable was rotated by 360 degrees to determine the position of the highest radiation.  
 For emissions measurement, the receiving antenna was placed 3 meters far away from the turntable.  
 The antenna was fixed on the same height with the EUT to find each suspected emissions of both horizontal and vertical polarization.  
 Adjust the emission and slightly rotate the turntable to locate the position with maximum reading.  
 Adjust the emission and slightly height of the antenna to locate the position with maximum reading.  
 If the peak scan value lower limit more than 20dB, then this signal data does not show in graph



## Radiated Emission Test 9kHz - 26500MHz

Date of test : 26 June 2010  
 Test requirement : FCC Part 15 Section 15.209  
 Test method : ANSI C63.4:2003  
 Operating mode : On mode  
 Antenna polarity : Horizontal  
 Remarks : NIL

<b>Test Result</b>	
<input checked="" type="checkbox"/>	Passed
<input type="checkbox"/>	Not Passed



Freq. (MHz)	Ant.Pol. H/V	Reading	Ant./CF CF(dB)	Act.	Limit	Note
		Peak (dBuV)		Peak (dBuV)	Peak (dBuV)	
1302.59	H	50.68	8.09	42.59	54.00	X/F
1736.51	H	36.42	3.86	32.56	52.87	X/F
2170.43	H	34.75	1.15	33.60	52.87	X/F
2604.35	H	36.69	1.29	35.40	52.87	X/F
3038.27	H	34.73	-0.27	35.00	52.87	X/F

Remark: The EUT was placed on the top of the turntable in test site area.  
 The resolution bandwidth setting on the test receiver was 120 KHz , Detector function peak (30 MHz~1000MHz).  
 The resolution bandwidth setting on the test receiver was 1MHz, Detector function peak (1 GHz~5GHz).  
 The test shall be made in the operation mode. The turntable was rotated by 360 degrees to determine the position of the highest radiation.  
 For emissions measurement, the receiving antenna was placed 3 meters far away from the turntable.  
 The antenna was fixed on the same height with the EUT to find each suspected emissions of both horizontal and vertical polarization.  
 Adjust the emission and slightly rotate the turntable to locate the position with maximum reading.  
 Adjust the emission and slightly height of the antenna to locate the position with maximum reading.  
 If the peak scan value lower limit more than 20dB, then this signal data does not show in graph



### Radiated Emission Test 9kHz - 26500MHz

Date of test : 26 June 2010

Test requirement : FCC Part 15 Section 15.209

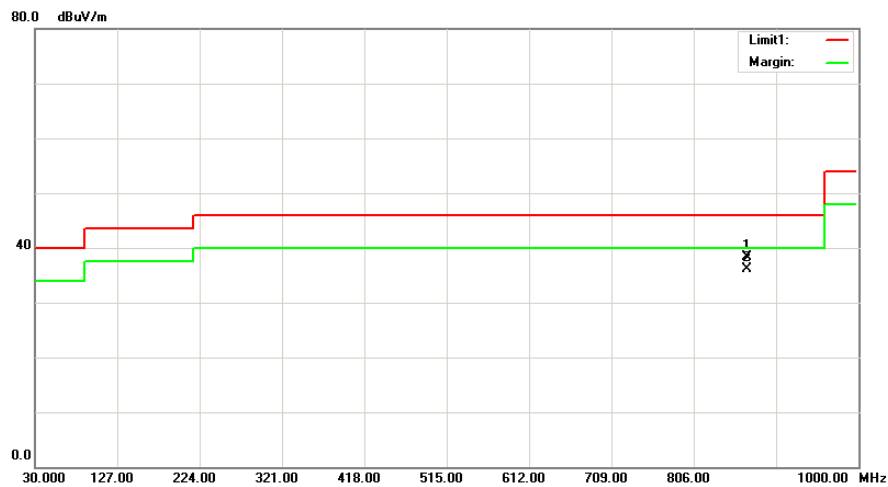
Test method : ANSI C63.4:2003

Operating mode : On mode

Antenna polarity : Vertical

Remarks : NIL

Test Result	
<input checked="" type="checkbox"/>	Passed
<input type="checkbox"/>	Not Passed



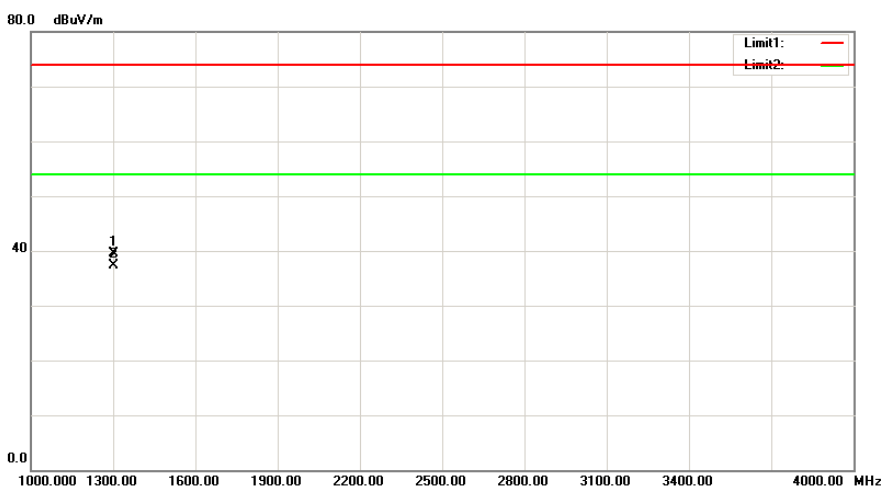
Freq. (MHz)	Ant.Pol. H/V	Reading	Ant./CF CF(dB)	Act.	Limit	Note
		Peak (dBuV)		Peak (dBuV/m)	Peak (dBuV/m)	
867.87	V	41.47	3.25	38.22	52.87	X/F

Remark: The EUT was placed on the top of the turntable in test site area.  
 The resolution bandwidth setting on the test receiver was 120 KHz , Detector function peak (30 MHz~1000MHz).  
 The resolution bandwidth setting on the test receiver was 1MHz, Detector function peak (1 GHz~5GHz).  
 The test shall be made in the operation mode. The turntable was rotated by 360 degrees to determine the position of the highest radiation.  
 For emissions measurement, the receiving antenna was placed 3 meters far away from the turntable.  
 The antenna was fixed on the same height with the EUT to find each suspected emissions of both horizontal and vertical polarization.  
 Adjust the emission and slightly rotate the turntable to locate the position with maximum reading.  
 Adjust the emission and slightly height of the antenna to locate the position with maximum reading.  
 If the peak scan value lower limit more than 20dB, then this signal data does not show in graph

### Radiated Emission Test 9kHz - 26500MHz

Date of test : 26 June 2010  
 Test requirement : FCC Part 15 Section 15.209  
 Test method : ANSI C63.4:2003  
 Operating mode : On mode  
 Antenna polarity : Vertical  
 Remarks : NIL

<b>Test Result</b>	
<input checked="" type="checkbox"/>	Passed
<input type="checkbox"/>	Not Passed



Freq. (MHz)	Ant. Pol. H/V	Reading	Ant./CF CF(dB)	Act.	Limit	Note
		Peak (dBuV)		Peak (dBuV)	Peak (dBuV)	
1302.59	V	47.55	8.09	39.46	54.00	X/F
1736.51	V	36.42	3.86	32.56	52.87	X/F
2170.43	V	33.65	1.15	32.50	52.87	X/F
2604.35	V	35.88	1.29	34.59	52.87	X/F
3038.27	V	33.29	-0.27	33.56	52.87	X/F

Remark: The EUT was placed on the top of the turntable in test site area.  
 The resolution bandwidth setting on the test receiver was 120 KHz , Detector function peak (30 MHz~ 1000MHz).  
 The resolution bandwidth setting on the test receiver was 1MHz, Detector function peak (1 GHz~5GHz).  
 The test shall be made in the operation mode. The turntable was rotated by 360 degrees to determine the position of the highest radiation.  
 For emissions measurement, the receiving antenna was placed 3 meters far away from the turntable.  
 The antenna was fixed on the same height with the EUT to find each suspected emissions of both horizontal and vertical polarization.  
 Adjust the emission and slightly rotate the turntable to locate the position with maximum reading.  
 Adjust the emission and slightly height of the antenna to locate the position with maximum reading.  
 If the peak scan value lower limit more than 20dB, then this signal data does not show in graph.

## Test Equipment List

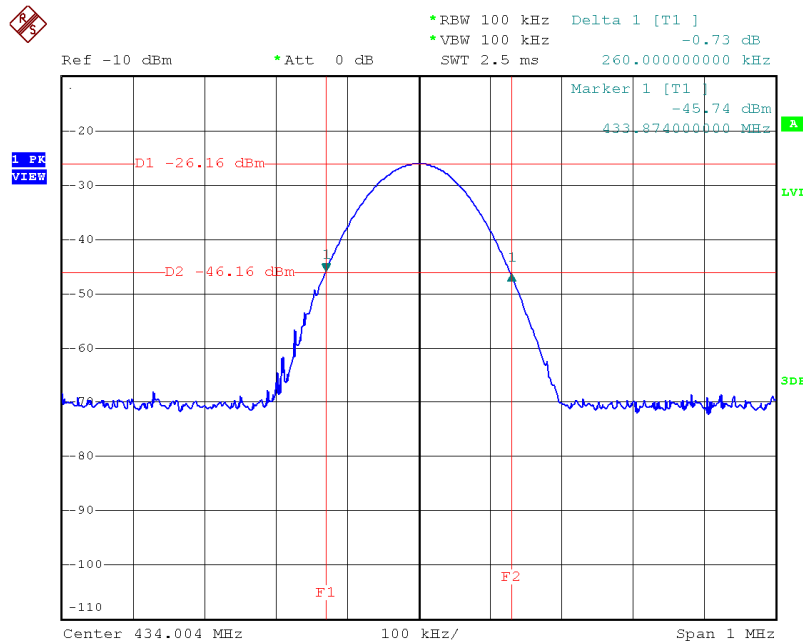
### Radiated Emission Test

Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
Double-Ridged Guide Antenna	ETS	3115	75789	May.12.2011
Spectrum Analyzer	R&S	FSP-40	100129	Sep. 10, 2010
Test Receiver	R&S	ESCI	100895	May.26.2011
Pre-Amplifier	EMC	EMC-330	980001	Jun. 02, 2011
Microflex Cable	AISI	S104-SMAP-1	10m	Aug. 23, 2010
Microflex Cable	N/A	N/A	1m	May. 19, 2011
Amplifier	HP	8447D	2944A09673	May.26.2011
Microwave Pre_amplifier	Agilent	8449B	3008A01714	Apr. 19, 2011
Amplifier	Agilent	8449B	3008A02274	May.26.2011
Test Cable	HUBER+SUHNER	SUCOFLEX_8m	313794/4	Apr.12.2011
Microflex Cable	N/A	N/A	3m	Aug. 23, 2010
Triple Loop Antenna	R&S	HFH2-Z2	830749/020	May.27.2011
Antenna	Schwarbeck	VULB9160	9160-3232	Jul.01.2010
Test Cable	HUBER+SUHNER	CB03 High Fre	N/A	May.03.2011
Controller	CT	SC100	N/A	N/A
Test Cable	N/A	C-01_CB03	N/A	Jul.06.2010
Spectrum	Agilent	E4408B	US39240143	Nov.16.2010

## 6.2 20dB Bandwidth measurement

Date of test : 30 June 2010  
 Test requirement : FCC Part 15 Section 15.231  
 Test method : ANSI C63.4:2003  
 Operating mode : On mode  
 Remarks : NIL

Test Result	
<input checked="" type="checkbox"/>	Passed
<input type="checkbox"/>	Not Passed



Date: 30.JUN.2010 20:21:34

Remark: Use the following spectrum analyzer settings:  
 Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel  
 RBW ≥ 1% of the 20 dB bandwidth  
 VBW ≥ RBW Sweep = auto  
 Detector function = peak  
 Trace = max hold  
 The EUT should be transmitting at its maximum data rate. Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. Use the marker-delta function to measure 20 dB down one side of the emission. Reset the marker delta function, and move the marker to the other side of the emission, until it is (as close as possible to) even with the reference marker level. The marker-delta reading at this point is the 20 dB bandwidth of the emission. If this value varies with different modes of operation (e.g., data rate, modulation format, etc.), repeat this test for each variation. The limit is specified in one of the subparagraphs of this Section.

## Test Equipment List

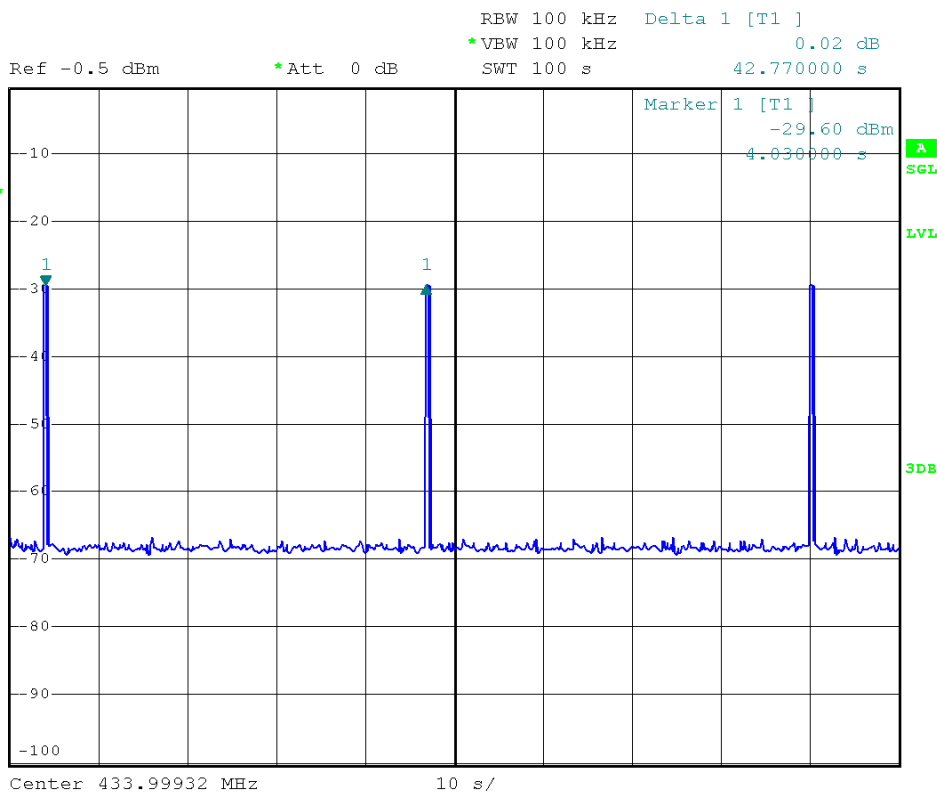
### 20dB Bandwidth measurement

Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
Double-Ridged Guide Antenna	ETS	3115	75789	May.12.2011
Spectrum Analyzer	R&S	FSP-40	100129	Sep. 10, 2010
Test Receiver	R&S	ESCI	100895	May.26.2011
Pre-Amplifier	EMC	EMC-330	980001	Jun. 02, 2011
Microflex Cable	AISI	S104-SMAP-1	10m	Aug. 23, 2010
Microflex Cable	N/A	N/A	1m	May. 19, 2011
Amplifier	HP	8447D	2944A09673	May.26.2011
Microwave Pre_amplifier	Agilent	8449B	3008A01714	Apr. 19, 2011
Amplifier	Agilent	8449B	3008A02274	May.26.2011
Test Cable	HUBER+SUHNER	SUCOFLEX_8m	313794/4	Apr.12.2011
Microflex Cable	N/A	N/A	3m	Aug. 23, 2010
Triple Loop Antenna	R&S	HFH2-Z2	830749/020	May.27.2011
Antenna	Schwarbeck	VULB9160	9160-3232	Jul.01.2010
Test Cable	HUBER+SUHNER	CB03 High Fre	N/A	May.03.2011
Controller	CT	SC100	N/A	N/A
Test Cable	N/A	C-01_CB03	N/A	Jul.06.2010
Spectrum	Agilent	E4408B	US39240143	Nov.16.2010

### 6.3 Deactivation Time measurement

Date of test : 30 June 2010  
 Test requirement : FCC Part 15 Section 15.231  
 Test method : ANSI C63.4:2003  
 Operating mode : On mode  
 Remarks : Detector function = peak

Test Result	
<input checked="" type="checkbox"/>	Passed
<input type="checkbox"/>	Not Passed



Date: 30.JUN.2010 20:00:18

EUT automatically transmits signal after 42.77 seconds from the previous transmitted signal.

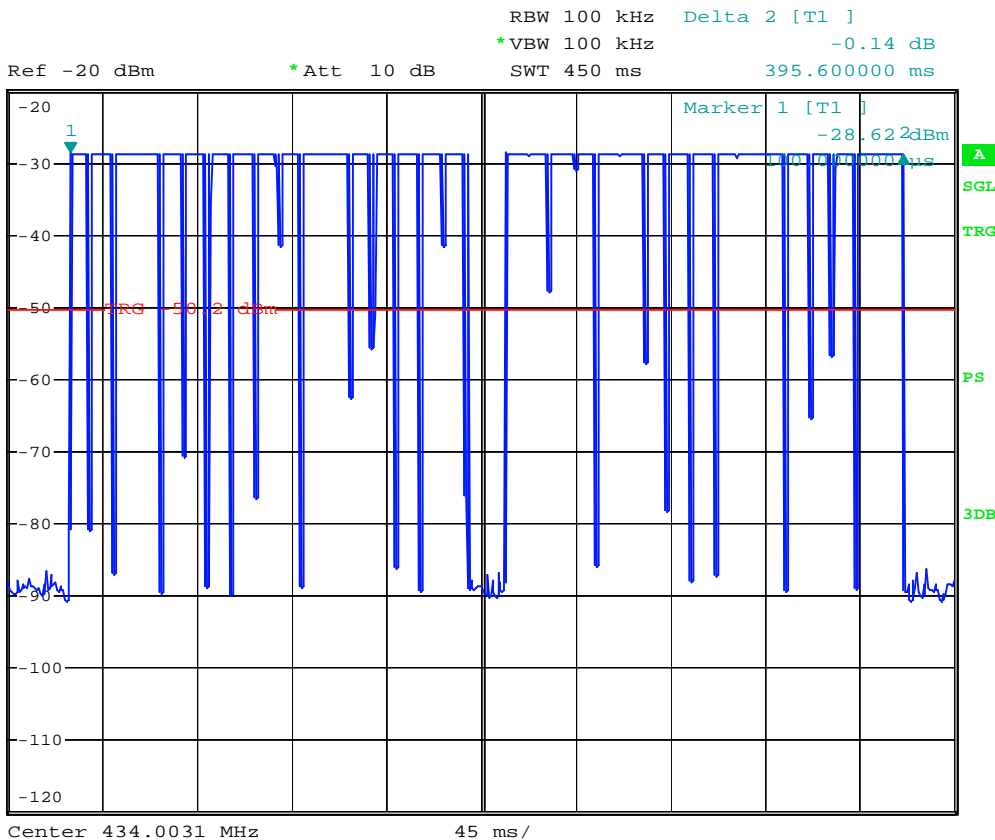
<b>Limit:</b>	For periodic transmitter, according to FCC Part 15C § 15.231(e)
Item	Limit
One transmission time	(second)
Transmission period	not greater than 1 second
	at least 30 times the duration of the transmission
	but in no case less than 10 second



## Deactivation Time measurement

Date of test : 30 June 2010  
 Test requirement : FCC Part 15 Section 15.231  
 Test method : ANSI C63.4:2003  
 Operating mode : On mode  
 Remarks : Detector function = peak

Test Result	
<input checked="" type="checkbox"/>	Passed
<input type="checkbox"/>	Not Passed



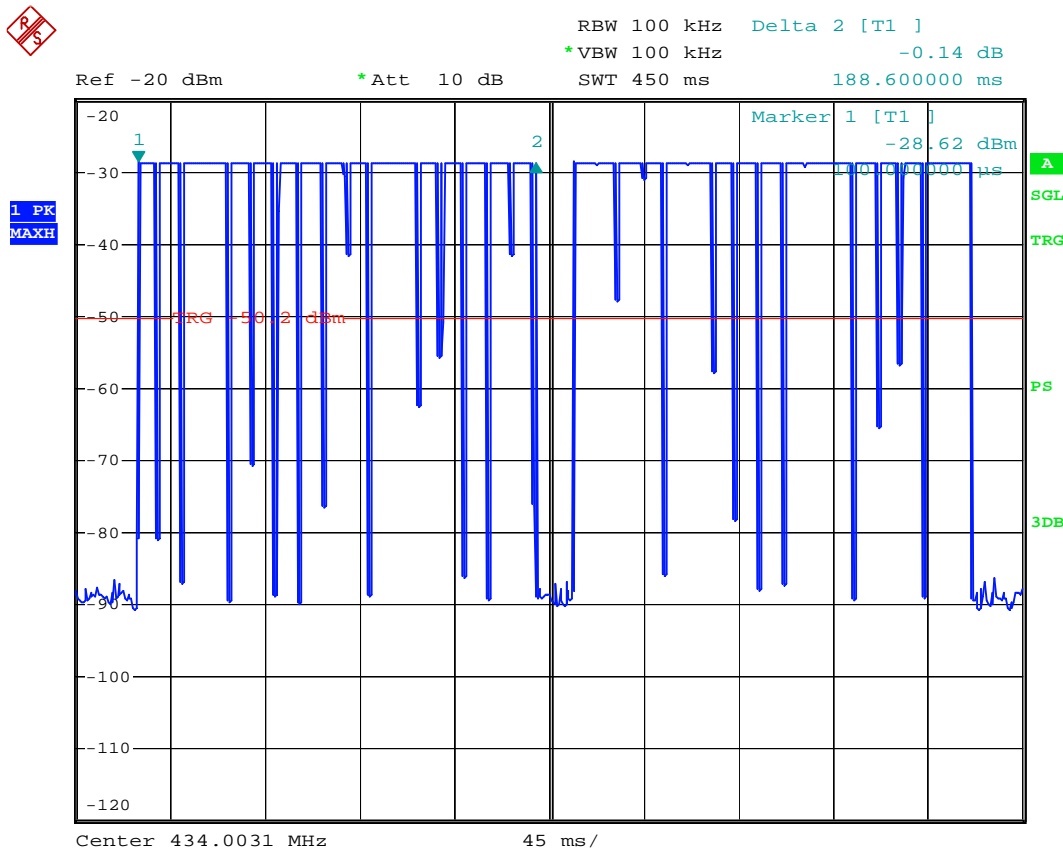
EUT data packet has the period of 395.6ms

<b>Limit:</b>	For periodic transmitter, according to FCC Part 15C § 15.231(e)
Item	Limit (second)
One transmission time	not greater than 1 second
Transmission period	at least 30 times the duration of the transmsion but in no case less than 10 second

### 6.4 Bandwidth measurement

Date of test : 30 June 2010  
 Test requirement : FCC Part 15 Section 15.231  
 Test method : ANSI C63.4:2003  
 Operating mode : On mode  
 Remarks : Detector function = peak

Test Result	
<input checked="" type="checkbox"/>	Passed
<input type="checkbox"/>	Not Passed

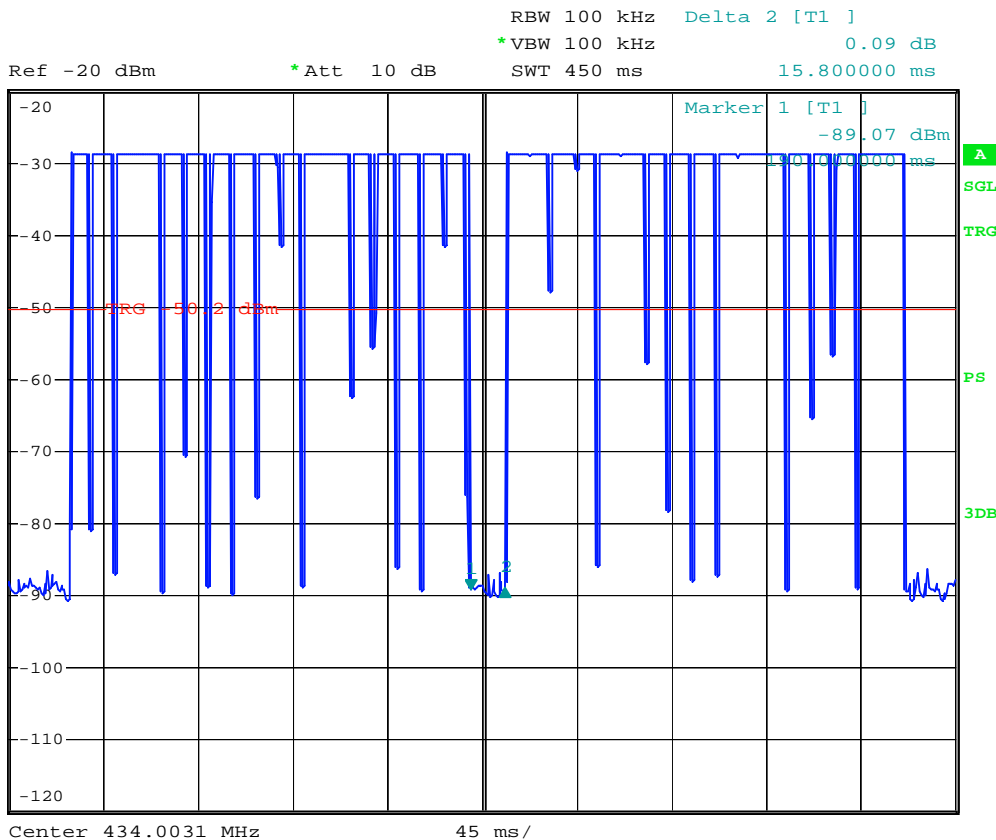


EUT data packet 1 has the period of 188.6ms

### Bandwidth measurement

Date of test : 30 June 2010  
 Test requirement : FCC Part 15 Section 15.231  
 Test method : ANSI C63.4:2003  
 Operating mode : On mode  
 Remarks : Detector function = peak

Test Result	
<input checked="" type="checkbox"/>	Passed
<input type="checkbox"/>	Not Passed

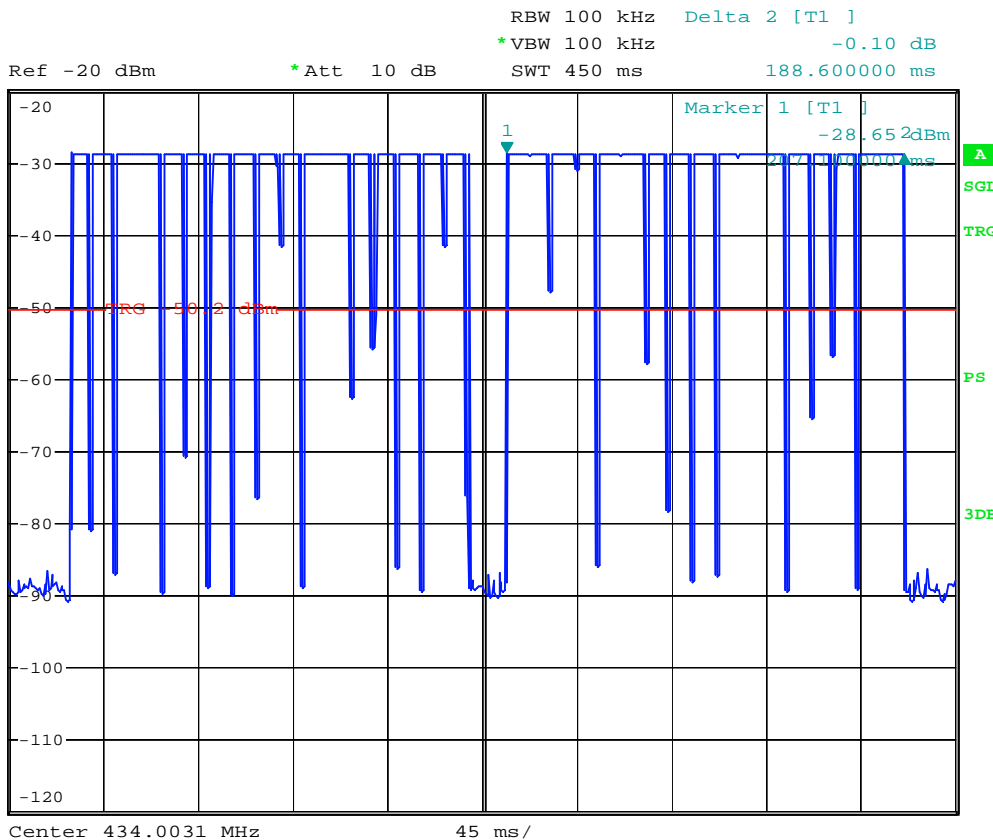


EUT data packet off has the period of 15.8ms

### Bandwidth measurement

Date of test : 30 June 2010  
 Test requirement : FCC Part 15 Section 15.231  
 Test method : ANSI C63.4:2003  
 Operating mode : On mode  
 Remarks : Detector function = peak

Test Result	
<input checked="" type="checkbox"/>	Passed
<input type="checkbox"/>	Not Passed

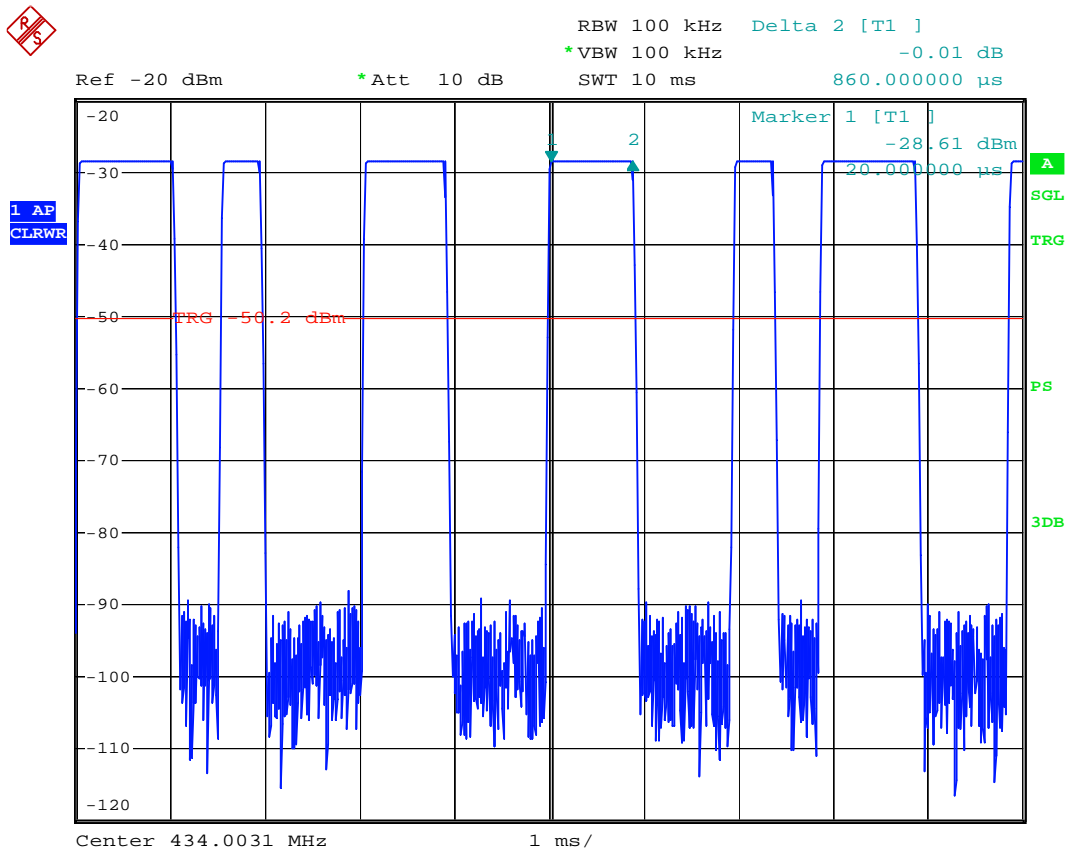


EUT data packet 2 has the period of 188.6ms

### Bandwidth measurement

Date of test : 30 June 2010  
 Test requirement : FCC Part 15 Section 15.231  
 Test method : ANSI C63.4:2003  
 Operating mode : On mode  
 Remarks : Detector function = peak

Test Result	
<input checked="" type="checkbox"/>	Passed
<input type="checkbox"/>	Not Passed

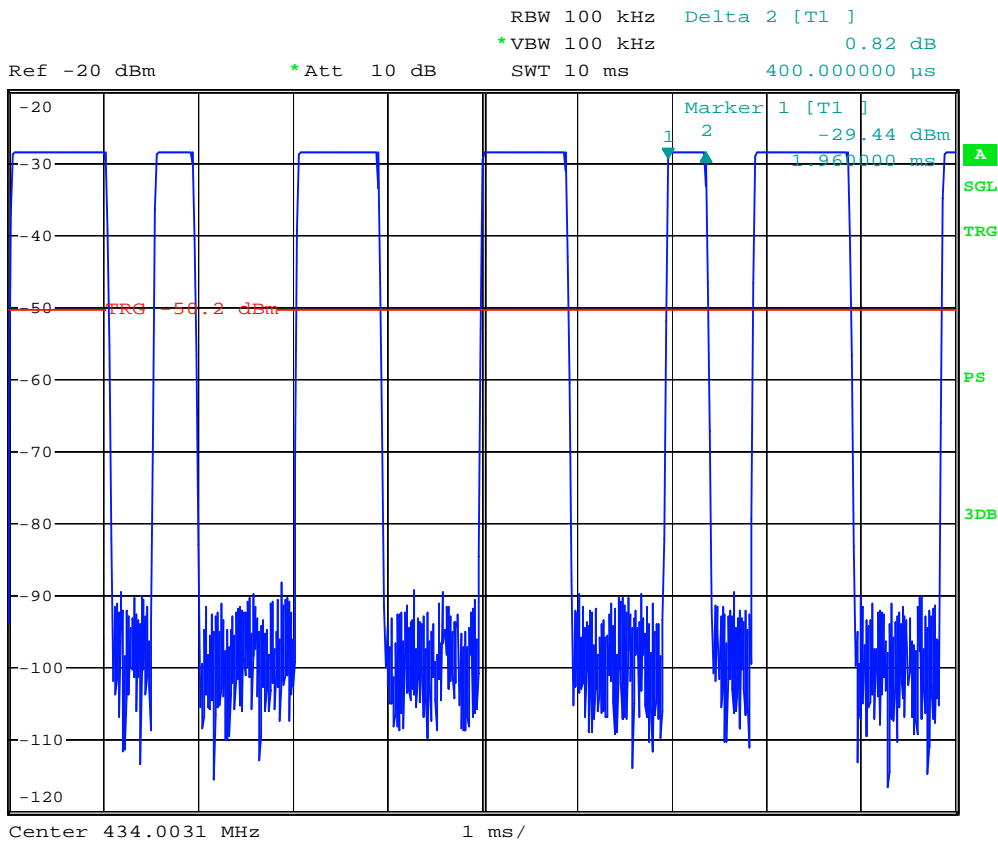


EUT "ON" data 1 has the period of 860µs

### Bandwidth measurement

Date of test : 30 June 2010  
 Test requirement : FCC Part 15 Section 15.231  
 Test method : ANSI C63.4:2003  
 Operating mode : On mode  
 Remarks : Detector function = peak

Test Result	
<input checked="" type="checkbox"/>	Passed
<input type="checkbox"/>	Not Passed

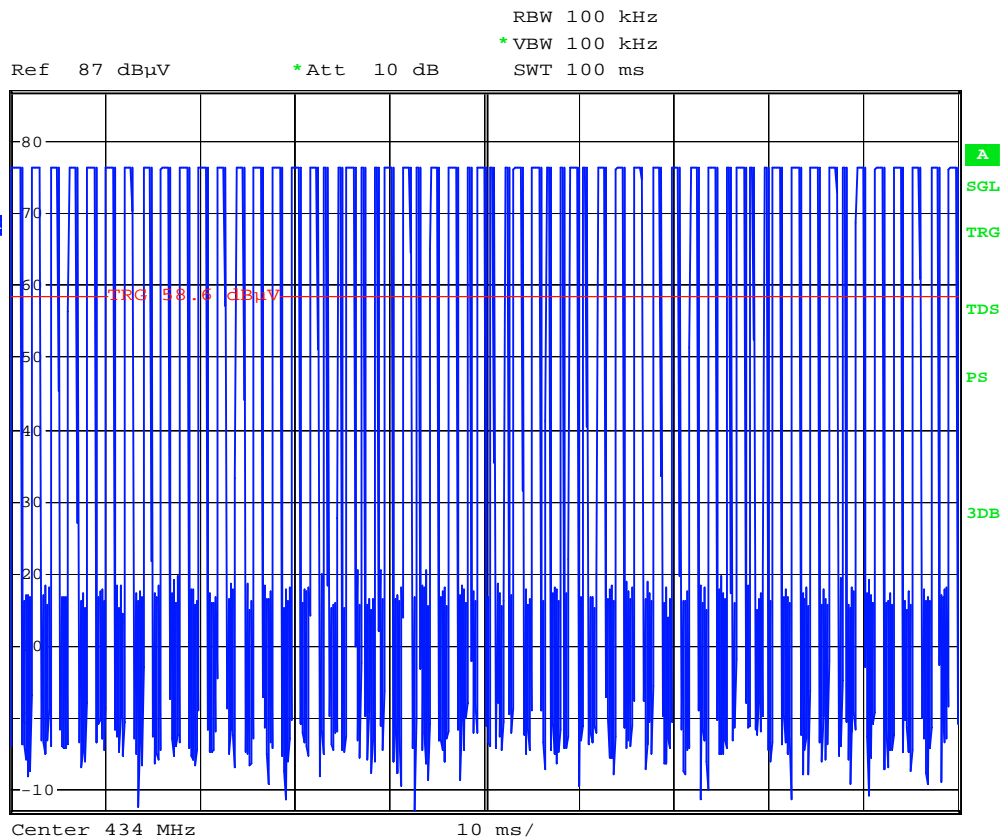


EUT "ON" data 2 has the period of 400µs

## Bandwidth measurement

Date of test : 30 June 2010  
 Test requirement : FCC Part 15 Section 15.231  
 Test method : ANSI C63.4:2003  
 Operating mode : On mode  
 Remarks : Detector function = peak

Test Result	
<input checked="" type="checkbox"/>	Passed
<input type="checkbox"/>	Not Passed



Within 100ms, there are 44 long and 15 short "On" signal.  
 Therefore, the total signal "on" time of on successful period is  $(860\mu s \times 44) + (400\mu s \times 15) = 43.80 \text{ ms}$ .

Average factor:  $20 \log 1/(43.80/100) = 7.17 \text{ dB}$     Average = Peak – Average Factor

## Test Equipment List

### Bandwidth measurement

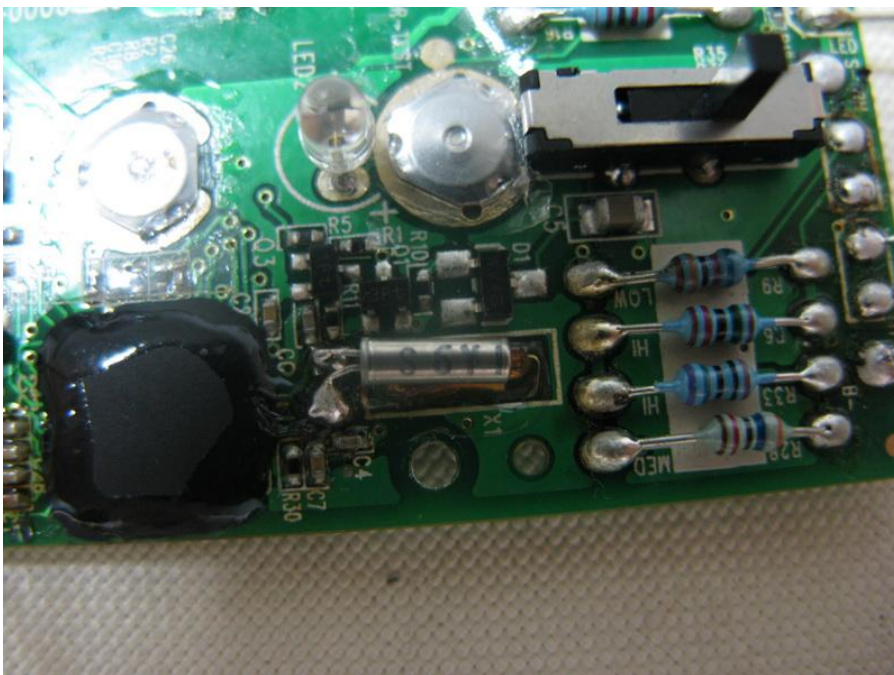
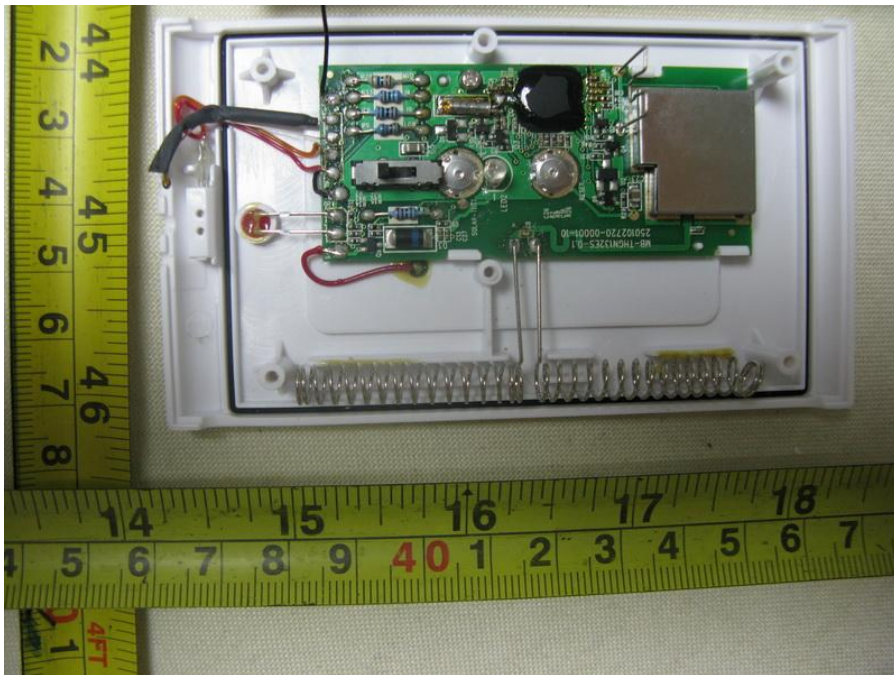
Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
Double-Ridged Guide Antenna	ETS	3115	75789	May.12.2011
Spectrum Analyzer	R&S	FSP-40	100129	Sep. 10, 2010
Test Receiver	R&S	ESCI	100895	May.26.2011
Pre-Amplifier	EMC	EMC-330	980001	Jun. 02, 2011
Microflex Cable	AISI	S104-SMAP-1	10m	Aug. 23, 2010
Microflex Cable	N/A	N/A	1m	May. 19, 2011
Amplifier	HP	8447D	2944A09673	May.26.2011
Microwave Pre_amplifier	Agilent	8449B	3008A01714	Apr. 19, 2011
Amplifier	Agilent	8449B	3008A02274	May.26.2011
Test Cable	HUBER+SUHNER	SUCOFLEX_8m	313794/4	Apr.12.2011
Microflex Cable	N/A	N/A	3m	Aug. 23, 2010
Triple Loop Antenna	R&S	HFH2-Z2	830749/020	May.27.2011
Antenna	Schwarbeck	VULB9160	9160-3232	Jul.01.2010
Test Cable	HUBER+SUHNER	CB03 High Fre	N/A	May.03.2011
Controller	CT	SC100	N/A	N/A
Test Cable	N/A	C-01_CB03	N/A	Jul.06.2010
Spectrum	Agilent	E4408B	US39240143	Nov.16.2010



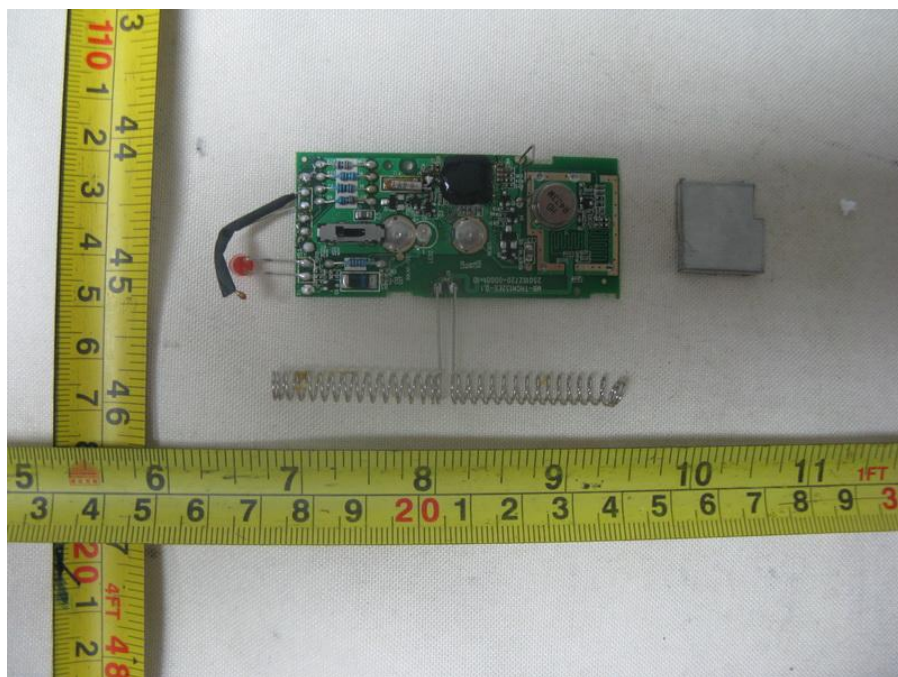
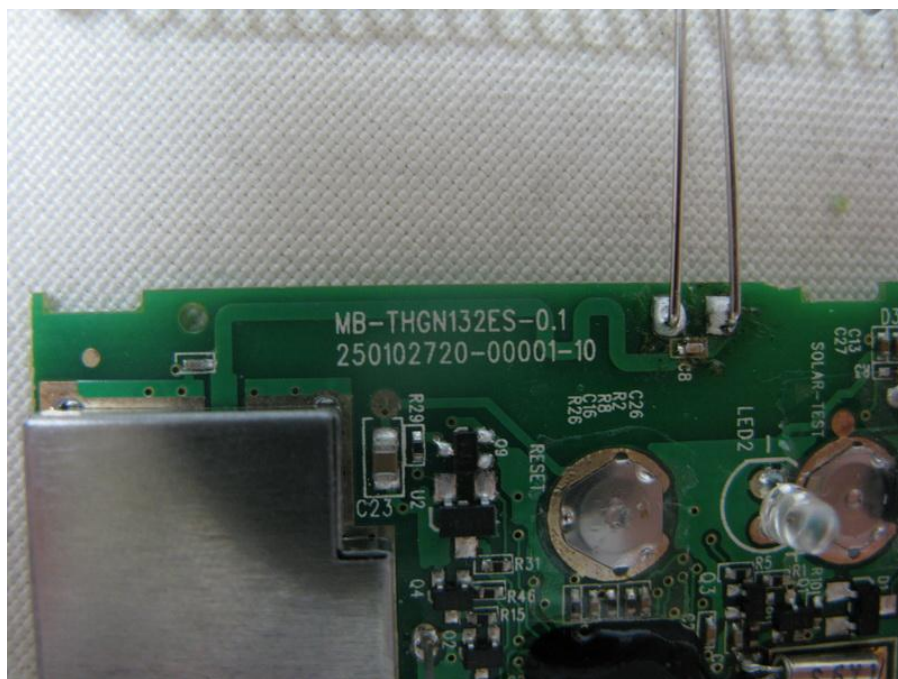
## 7 Appendix A



## Appendix A



## Appendix A

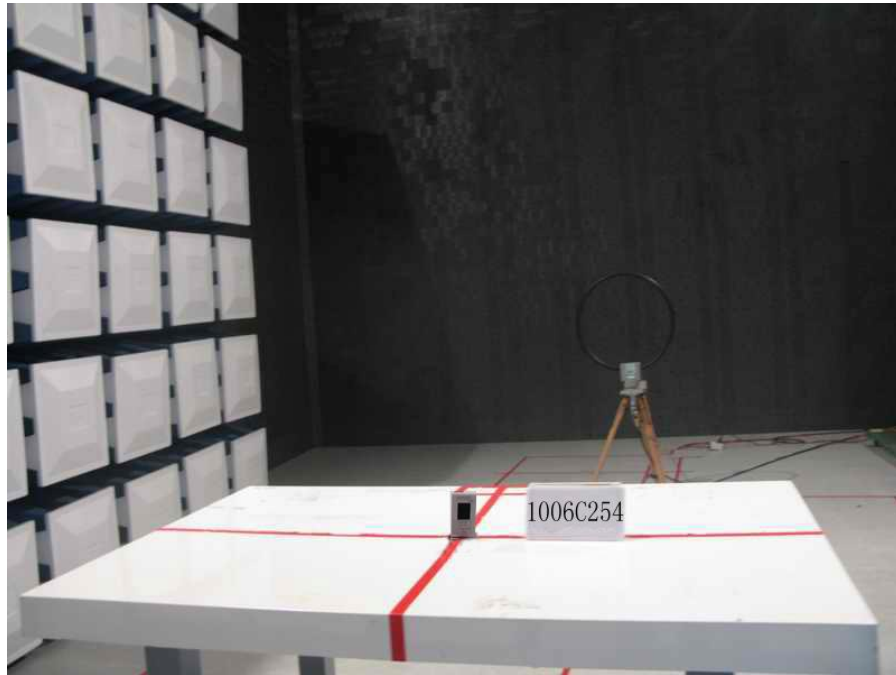


## Appendix A

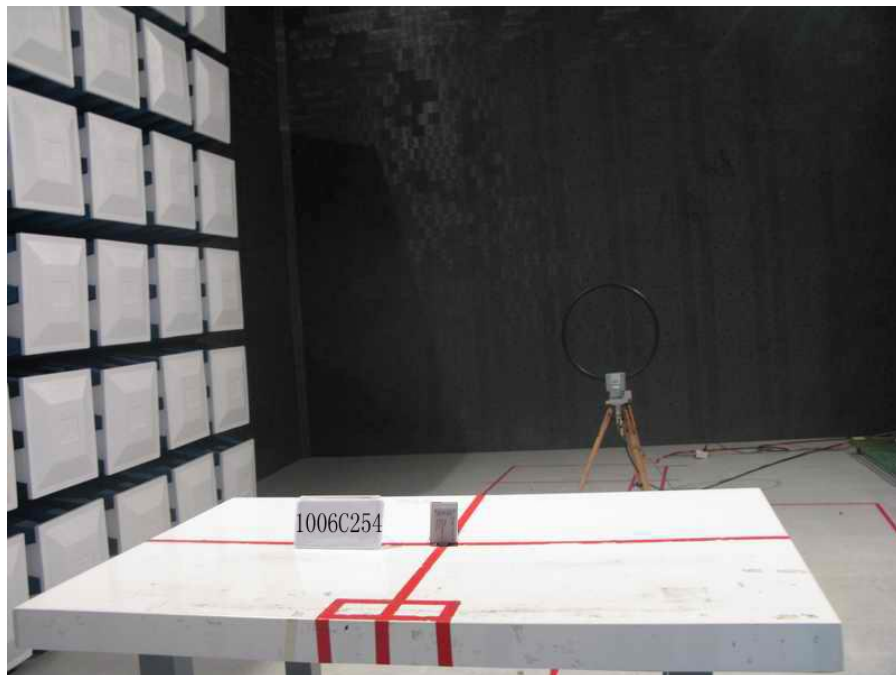


## 8 Appendix B

### Radiated Emission Test Set Up



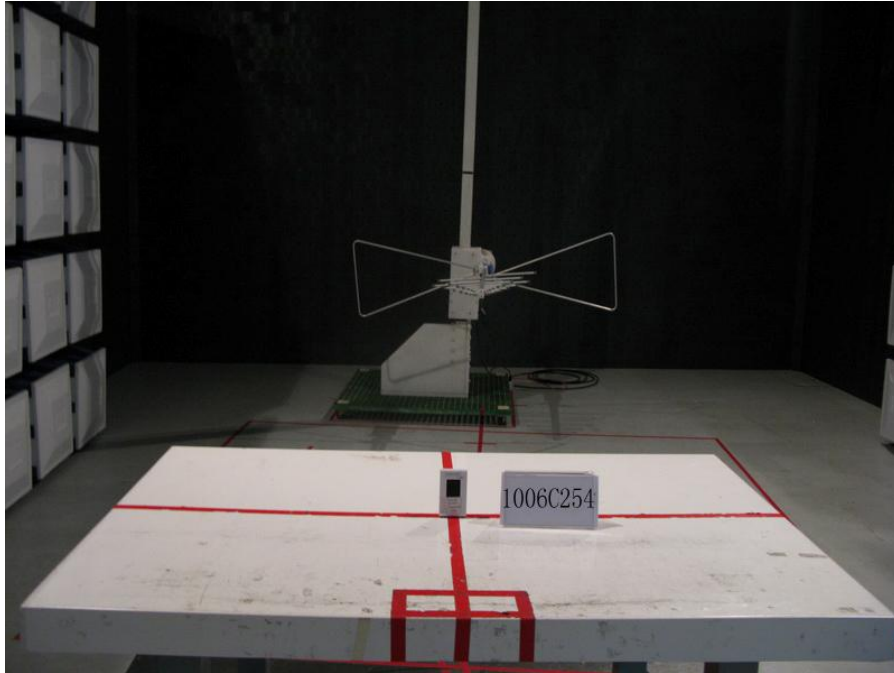
9kHz-30MHz



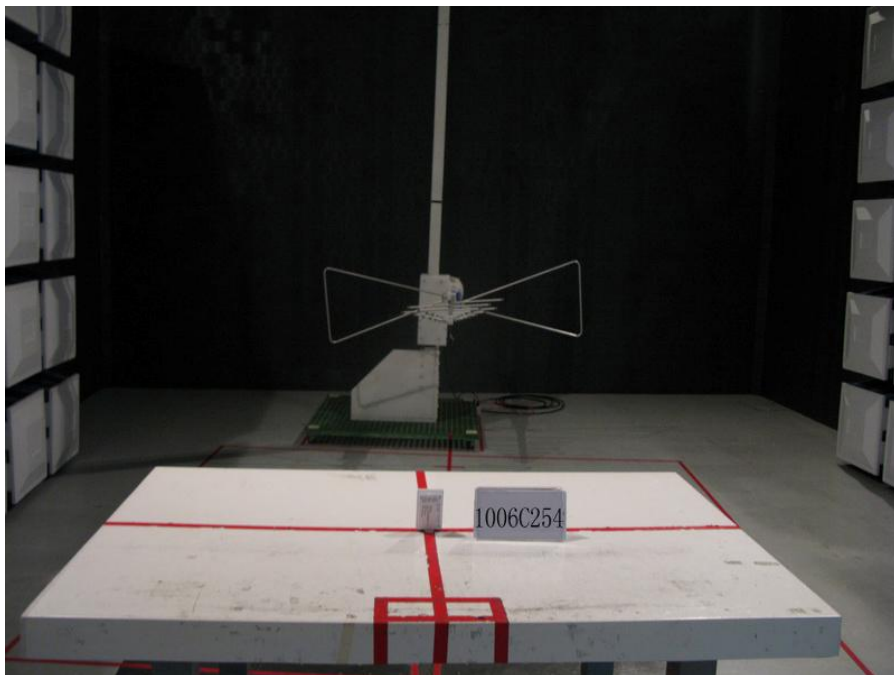
9kHz-30MHz

## Appendix B

### Radiated Emission Test Set Up



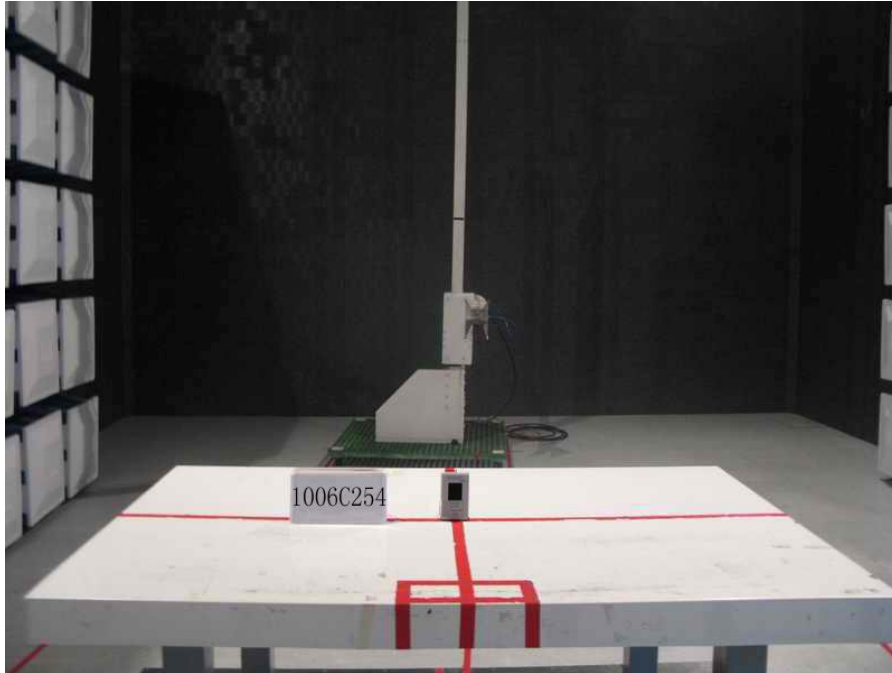
30MHz-1GHz



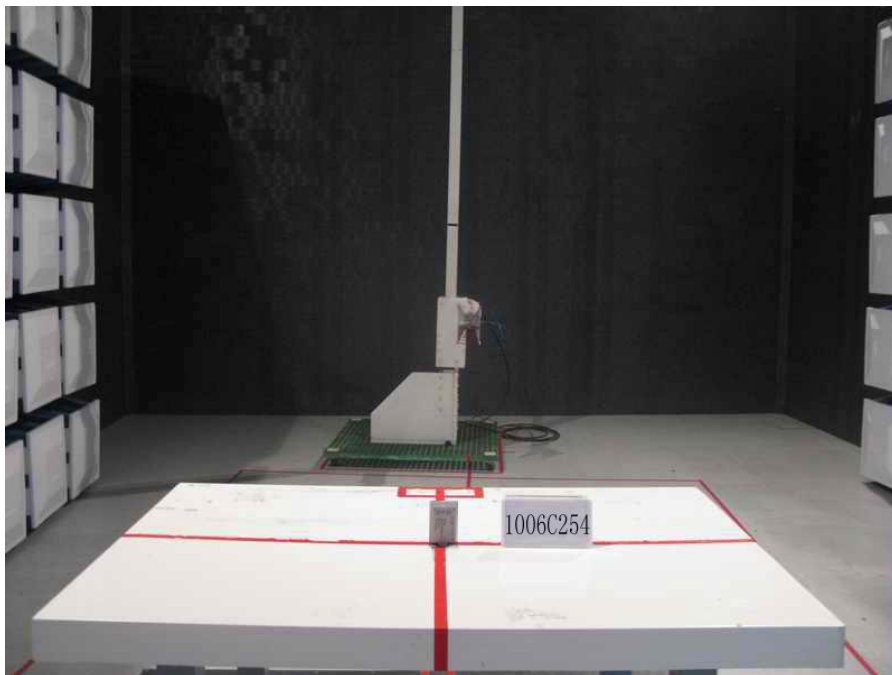
30MHz-1GHz

## Appendix B

### Radiated Emission Test Set Up



1GHz above



1GHz above

## 9 Appendix C

