

Report No.: SZEM150700473501

No. 1 Workshop, M-10, Middle section, Science & Technology Park, Nanshan

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### FCC TEST REPORT

Application No.: SZEM1507004735CR
Applicant: iDT Technology Limited
Manufacturer/Factory: iDT Technology Limited

Product Name: Outdoor sensor Model No.(EUT): RTGN130A

Add Model No.: RTGN130, RTHN130A, RTGN129, RTGN129A

Trade Mark: Oregon scientific

FCC ID: NMTRTGN130A-01

Standards: 47 CFR Part 15, Subpart C (2014)

**Date of Receipt:** 2015-08-04

**Date of Test:** 2015-08-18 to 2015-08-24

**Date of Issue:** 2015-08-31

Test Result: PASS \*

#### Authorized Signature:



Jack Zhang EMC Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.

<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.



Report No.: SZEM150700473501

Page: 2 of 23

### 1 Version

	Revision Record				
Version	Chapter	Date	Modifier	Remark	
00		2015-08-31		Original	

Authorized for issue by:		
Tested By	Eric Fu	2015-08-24
	(Eric Fu) /Project Engineer	Date
Prepared By	Vivi Zhou	2015-08-31
	(Vivi Zhou) /Clerk	Date
Checked By	Chros Thong	2015-08-31
	(Chris Zhong) /Reviewer	Date



Report No.: SZEM150700473501

Page: 3 of 23

### 2 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15, Subpart C Section	ANSI C63.10(2009)	PASS
Antenna nequirement	15.203	ANSI 003.10(2009)	
Field Strength of the	47 CFR Part 15, Subpart C Section	ANSI C63.10(2009)	PASS
Fundamental Signal	15.231 (b)	ANSI C63.10(2009)	PASS
Spurious Emissions	47 CFR Part 15, Subpart C Section	ANCI (CC2 10/2000)	PASS
Spurious Emissions	15.231 (b)/15.209	ANSI C63.10(2009)	
20dB Bandwidth	47 CFR Part 15, Subpart C Section	ANSI C62 10/2000)	DACC
2006 Ballowidtii	15.231 (c)	ANSI C63.10(2009)	PASS
Dwell Time	47 CFR Part 15, Subpart C Section	ANSI C62 10/2000)	PASS
Dwell Tille	15.231 (a)	ANSI C63.10(2009)	LW99

#### Remark:

Model No.: RTGN130, RTHN130, RTGN130A, RTHN130A, RTGN129, RTGN129A

Only the model RTGN130A was tested, since the circuitry design, PCB layout, electrical components used, internal wiring and functions were identical for all above models. Only different on model No, Silkscreen and short pad for different customer.



Report No.: SZEM150700473501

Page: 4 of 23

### 3 Contents

			Page
1	CO	VER PAGE	1
2	VEF	RSION	2
3	TES	ST SUMMARY	
4	CO	NTENTS	4
5	GEN	NERAL INFORMATION	5
	5.1 5.2 5.3 5.4 5.5 5.6 5.7 5.8 5.9 5.10	CLIENT INFORMATION GENERAL DESCRIPTION OF EUT TEST ENVIRONMENT AND MODE DESCRIPTION OF SUPPORT UNITS TEST LOCATION TEST FACILITY DEVIATION FROM STANDARDS ABNORMALITIES FROM STANDARD CONDITIONS OTHER INFORMATION REQUESTED BY THE CUSTOMER EQUIPMENT LIST	
6	TES	ST RESULTS AND MEASUREMENT DATA	10
	6.1 6.2 6.3 6.4	ANTENNA REQUIREMENT	11 17
7	PHO	OTOGRAPHS - TEST SETUP	23
	7.1 7.2	RADIATED EMISSIONRADIATED SPURIOUS EMISSION	
R	PHC	OTOGRAPHS - FUT CONSTRUCTIONAL DETAILS	23



Report No.: SZEM150700473501

Page: 5 of 23

### 4 General Information

### 4.1 Client Information

Applicant:	iDT Technology Limited
Address of Applicant:	Block C, 9/F, Kaiser Estate, Phase I, 41 Man Yue St., Hunghom, Kowloon, HK
Manufacturer:	iDT Technology Limited
Address of Manufacturer:	Block C, 9/F, Kaiser Estate, Phase I, 41 Man Yue St., Hunghom, Kowloon, HK
Factory:	iDT Technology Limited
Address of Factory:	Block C, 9/F, Kaiser Estate, Phase I, 41 Man Yue St., Hunghom, Kowloon, HK

### 4.2 General Description of EUT

Product Name:	Outdoor sensor
Model No.:	RTGN130A
Trade Mark:	Oregon scientific
RF Carrier Frequency	433.92MHz
Antenna Gain:	0dBi
Modulation Type	AM
Power Supply:	DC:2*1.5(AAA)=3.0V



Report No.: SZEM150700473501

Page: 6 of 23

### 4.3 Test Environment and Mode

Operating Environment:	Operating Environment:		
Temperature:	25.0 °C		
Humidity:	52 % RH		
Atmospheric Pressure:	1005 mbar		
Test mode:			
Transmitting mode:	Keep the EUT in transmitting mode with modulation.		

### 4.4 Description of Support Units

The EUT has been tested independent unit.

#### 4.5 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch E&E Lab,

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.



Report No.: SZEM150700473501

Page: 7 of 23

### 4.6 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

#### CNAS (No. CNAS L2929)

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

#### VCCI

The 10m Semi-anechoic chamber and Shielded Room (7.5m x 4.0m x 3.0m) of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-823, R-4188, T-1153 and C-2383 respectively.

#### • FCC – Registration No.: 556682

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 556682.

#### Industry Canada (IC)

Two 3m Semi-anechoic chambers of SGS-CSTC Standards Technical Services Co., Ltd. have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-2.

### 4.7 Deviation from Standards

None.

### 4.8 Abnormalities from Standard Conditions

None.

### 4.9 Other Information Requested by the Customer

None.



Report No.: SZEM150700473501

Page: 8 of 23

### 4.10 Equipment List

RE in Chamber					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Due date (yyyy-mm-dd)
1	3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEL0017	2016-05-13
2	EMI Test Receiver	Agilent Technologies	N9038A	SEL0312	2015-09-16
3	EMI Test software	AUDIX	E3	SEL0050	N/A
4	Coaxial cable	SGS	N/A	SEL0027	2016-05-13
5	Coaxial cable	SGS	N/A	SEL0189	2016-05-13
6	Coaxial cable	SGS	N/A	SEL0121	2016-05-13
7	Coaxial cable	SGS	N/A	SEL0178	2016-05-13
8	BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEL0015	2015-10-24
9	Double-ridged horn (1-18GHz)	ETS-LINDGREN	3117	SEL0006	2015-10-24
10	Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEL0053	2016-05-13
11	Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEL0168	2015-10-24
12	Barometer	ChangChun	DYM3	SEL0088	2016-05-13
13	DC Power Supply	Zhao Xin	RXN-305D	SEL0117	2015-10-24
14	Humidity/ Temperature Indicator	Shanhai Qixiang	ZJ1-2B	SEL0103	2015-10-24
15	Signal Generator	Rohde & Schwarz	SMY01	SEL0155	2015-10-24
16	Signal Generator (10M-27GHz)	Rohde & Schwarz	SMR27	SEL0067	2016-05-13
17	Loop Antenna	Beijing Daze	ZN30401	SEL0203	2016-05-13



Report No.: SZEM150700473501

Page: 9 of 23

	RF connected test			r ago.	
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Due date (yyyy-mm-dd)
1	DC Power Supply	Zhao Xin	RXN-305D	SEL0117	2015-10-24
2	Humidity/ Temperature Indicator	HYGRO	ZJ1-2B	SEL0033	2015-10-24
3	Spectrum Analyzer	Rohde & Schwarz	FSP	SEL0154	2015-10-24
4	Coaxial cable	SGS	N/A	SEL0178	2016-05-13
5	Coaxial cable	SGS	N/A	SEL0179	2016-05-13
6	Barometer	ChangChun	DYM3	SEL0088	2016-05-13
7	Signal Generator	Rohde & Schwarz	SML03	SEL0068	2016-04-25
8	Band filter	amideon	82346	SEL0094	2016-05-13
9	POWER METER	R&S	NRVS	SEL0144	2015-10-24
10	Attenuator	Beijin feihang taida	TST-2-6dB	SEL0205	2016-04-25
11	Power Divider(splitter)	Agilent Technologies	11636B	SEL0130	2015-10-24

Note: The calibration interval is one year, all the instruments are valid.



Report No.: SZEM150700473501

Page: 10 of 23

### 5 Test results and Measurement Data

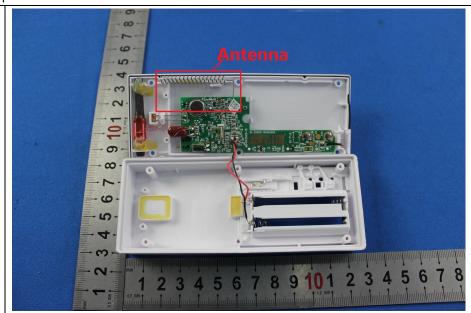
### 5.1 Antenna Requirement

**Standard requirement:** 47 CFR Part 15C Section 15.203

15.203 requirement:

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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

#### **EUT Antenna:**



The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 0dBi.



Report No.: SZEM150700473501

Page: 11 of 23

### 5.2 Spurious Emissions

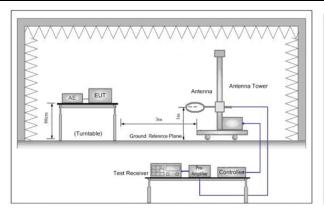
Test Requirement:	47 CFR Part 15C Section 15.231(b) and 15.209				
Test Method:	ANSI C63.10: 2009				
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	100 kHz	300kHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
	Above 1GHz	Peak	1MHz	10Hz	Average
Limit: (Spurious Emissions)	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	960MHz-1GHz	500	54.0	Quasi-peak	3
	Above 1GHz	500	54.0	Average	3
	Note: 15.35(b), Unless or emissions is 20dB applicable to the ed emission level radio	above the maximu quipment under tes	m permitted t. This peak	average emiss	sion limit
Limit:	Frequency	Limit (dBuV/r		Remark	
(Field strength of the		75.62	/	Average Valu	ıe
fundamental signal)	433.92MHz	95.72	95.72		<del>)</del>



Report No.: SZEM150700473501

Page: 12 of 23

Test Procedure:	a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
	<ul> <li>The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> </ul>
	c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
	d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
	e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
	f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
	g. The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, only the test worst case mode is recorded in the report.
Test Setup:	





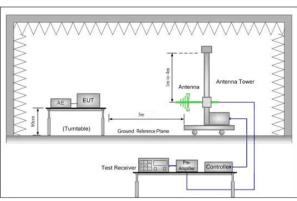


Figure 2. 30MHz to 1GHz



Report No.: SZEM150700473501

Page: 13 of 23

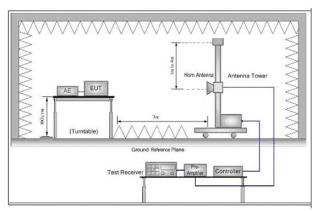


Figure 3. Above 1 GHz

Test Mode:	Transmitting mode
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass

#### **Measurement Data**

#### 5.2.1.1 Field Strength Of The Fundamental Signal

Peak value:								
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
433.92	2.85	14.34	0.00	58.62	75.81	95.62	-19.81	Horizontal
433.92	2.85	14.34	0.00	55.31	72.50	95.62	-23.12	Vertical

Average value:				
	Average value=Peak value + PDCF			
Calculate Formula:	PDCF=20 log(Duty cycle)			
	Duty cycle= T on time / T period			
	Ton time =21.108			
Test data:	T period =100			
	Average value= PK+20 log(Duty cycle)			

Average value= PK value+20 log(Duty cycle)

	<u> </u>			
Frequency (MHz)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
433.92	62.30	75.62	-13.32	Horizontal
433.92	58.99	75.62	-16.63	Vertical

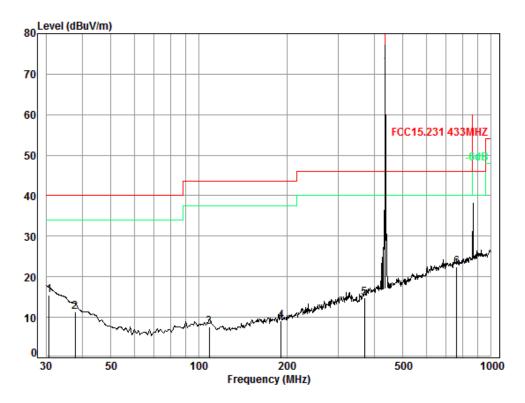


Report No.: SZEM150700473501

Page: 14 of 23

#### 5.2.1.2 Spurious Emissions

#### Radiated emission below 1GHz



Condition: FCC15.231 433MHZ 3m 3142C Horizontal

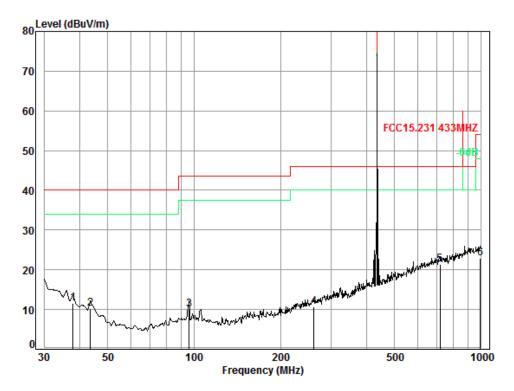
Job No. : 4735CR Test mode: TX mode

		Cable	Ant	Preamp	Read		Limit	0ver
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
						<del></del>		
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.64	0 60	10 2/	27.35	22 70	15 20	40.00	24 62
1	30.04	0.00	10.54	27.33	23.79	15.50	40.00	-24.02
2	37.68	0.60	14.40	27.33	23.75	11.42	40.00	-28.58
3	108.65	1.22	8.67	27.14	24.81	7.56	43.50	-35.94
4	191.07	1.39	10.11	26.73	24.45	9.22	43.50	-34.28
5	369.40	2.12	15.53	26.93	24.09	14.81	46.00	-31.19
6	763.38	3.10	21.86	27.34	24.81	22.43	46.00	-23.57



Report No.: SZEM150700473501

Page: 15 of 23



Condition: FCC15.231 433MHZ 3m 3142C Vertical

Job No. : 4735CR Test mode: TX mode

		Cable	Ant	Preamp	Read		Limit	0ver
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	37.81	0.60	14.33	27.33	24.00	11.60	40.00	-28.40
2	43.51	0.68	11.56	27.31	25.26	10.19	40.00	-29.81
3	96.10	1.16	8.94	27.21	27.23	10.12	43.50	-33.38
4	261.98	1.73	12.54	26.50	22.89	10.66	46.00	-35.34
5	719.20	2.96	21.60	27.39	24.17	21.34	46.00	-24.66
6	996.50	3.70	24.16	26.33	21.46	22.99	54.00	-31.01

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Report No.: SZEM150700473501

Page: 16 of 23

#### **Above 1GHz**

#### Peak value:

i can value.								
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2162.326	2.90	32.08	39.68	53.00	48.30	74	-25.70	Vertical
2468.879	3.02	32.64	39.91	54.23	49.98	74	-24.02	Vertical
3776.457	3.98	33.53	40.87	48.88	45.52	74	-28.48	Vertical
5674.463	5.01	35.18	41.20	48.99	47.98	74	-26.02	Vertical
7173.706	5.73	35.87	39.90	48.98	50.68	74	-23.32	Vertical
9347.322	6.06	37.01	38.03	46.34	51.38	74	-22.62	Vertical
2161.769	2.90	32.08	39.68	46.91	42.21	74	-31.79	Horizontal
3126.001	3.41	33.35	40.40	48.39	44.75	74	-29.25	Horizontal
4468.948	4.48	35.15	41.4	48.68	46.91	74	-27.09	Horizontal
5633.015	5.00	35.09	41.24	48.98	47.83	74	-26.17	Horizontal
7338.621	5.94	35.94	39.75	48.82	50.95	74	-23.05	Horizontal
8525.551	6.18	36.23	38.73	47.89	51.57	74	-22.43	Horizontal

#### Remark:

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
  - Final Test Level = Receiver Reading + Antenna Factor + Cable Factor Preamplifier Factor
- 2) The disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.



Report No.: SZEM150700473501

Page: 17 of 23

#### 5.3 20dB Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.231 (c)					
Test Method:	ANSI C63.10:2009					
Test Setup:	Spectrum Analyzer  E.U.T  Non-Conducted Table  Ground Reference Plane					
Limit:	The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz. For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the center frequency. Bandwidth is determined at the points 20 dB down from the modulated carrier.					
Test Mode:	Transmitting mode					
Instruments Used:	Refer to section 5.10 for details					
Test Results:	Pass					

#### **Measurement Data**

20dB bandwidth (MHz)	Limit (MHz)	Results
8.814kHz	1.085	Pass

#### Remark:

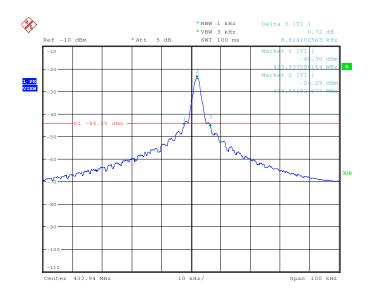
The bandwidth limit is 433.92\* 0.0025=1085KHz



Report No.: SZEM150700473501

Page: 18 of 23

#### Test plot as follows:







Report No.: SZEM150700473501

Page: 19 of 23

#### 5.4 Dwell Time

Test Requirement:	47 CFR Part 15C Section 15.231 (a) (1)				
Test Method:	ANSI C63.10:2009				
Test Setup:	Spectrum Analyzer  E.U.T  Non-Conducted Table  Ground Reference Plane				
Limit:	Not more than 5 seconds				
Test Mode:	Transmitting mode				
Instruments Used:	Refer to section 5.10 for details				
Test Results:	Pass				

#### **Measurement Data**

Test item	Limit (MHz)	Results	
Transmitting time	≤5S	Pass	

Transmit ON time for one pulse packet(ms)

Signal Type	Pulse numbers	Pulse width(ms)	Total ON time for one pulse
			packet(ms)
Short signal	24	0.881	21.144
Long signal	13	0.401	5.213

For this EUT, it launch 4 times in 200s, so in one hour (3600s) it can launch time is:

(3600/200)\*4=72

So the total transmits on time in one hour is:

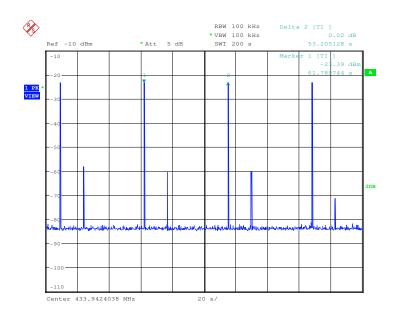
Total transmit time=72\*(21.144+5.213)ms=1897.704ms<2000ms

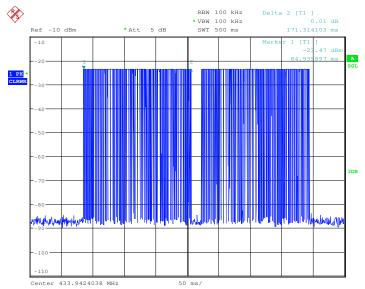


Report No.: SZEM150700473501

Page: 20 of 23

#### Test plot as follows:

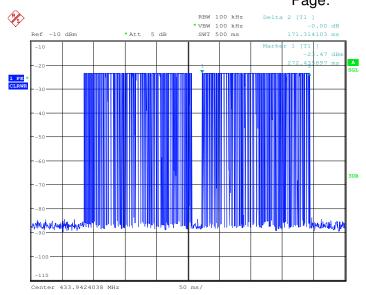


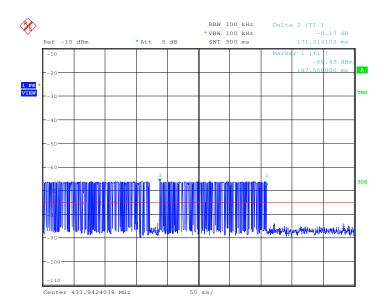


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Report No.: SZEM150700473501 Page: 21 of 23



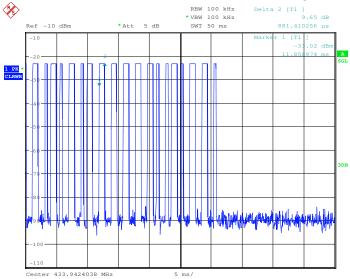


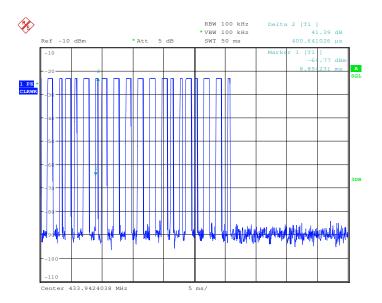
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Report No.: SZEM150700473501

Page: 22 of 23





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Report No.: SZEM150700473501

Page: 23 of 23

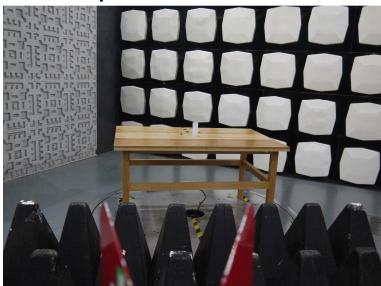
### 6 Photographs - Test setup

Test model No.: RTGN130A

#### 6.1 Radiated Emission



### 6.2 Radiated Spurious Emission



### 7 Photographs - EUT Constructional Details

Refer to Appendix A - Photographs of EUT Constructional Details for SZEM1507004735CR.