

SGS-CSTC Standards Technical Services Ltd.

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Report No.: SZEM111100480601

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FCC REPORT

Application No.: SZEM1111004806ET (SGS HK NO.: 2029229EL)
Applicant: Educational Insights
Product Name: GeoSafari® Jr. Talking Bug Net
Operation Frequency: 13.564MHz
FCC ID: MJO-EI-5264
Standards: FCC PART 15, SUBPART C : 2010 Section 15.225
Date of Receipt: 2011-11-18
Date of Test: 2011-12-12 to 2011-12-19
Date of Issue: 2011-12-27

Test Result :	PASS *
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* In the configuration tested, the EUT complied with the standards specified above.

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.

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3 Test Summary

Test Item	Section in CFR 47	Result
Radiated Emission (0.009MHz to 1GHz)	Section 15.209;15.225(a)(b)(c)(d)	Pass
Frequency Tolerance	Section 15.225(e)	Pass
Occupied Bandwidth	Section 15.215	Pass

Remark: Pass: The EUT complies with the essential requirements in the standard.

Fail: The EUT does not comply with the essential requirements in the standard.

4 General Information

4.1 Client Information

Applicant:	Educational Insights
Address of Applicant:	152 Walnut Street, Suite 201, Gardena CA 90248

4.2 General Description of E.U.T.

Product Name:	GeoSafari® Jr. Talking Bug Net
Model No.:	5264
Request Age Grading:	4+
Country of Origin:	China
Country of Destination:	US
Operation Frequency:	13.564MHz
Power supply:	4.5V DC (1.5V x 3 "AAA" Size Batteries)
Power Cord:	-N/A-

4.3 E.U.T. Environment and test modes

Operating Environment:	
Temperature:	25.0 °C
Humidity:	50 % RH
Atmospheric Pressure:	1015 mbar
Test mode:	
Transmitting mode:	Keep the EUT in transmitting mode

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4.4 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

Telephone: +86 (0) 755 2601 2053 Fax: +86 (0) 755 2671 0594

No tests were sub-contracted.

4.5 Other Information Requested by the Customer

None.

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 3m Semi-anechoic chamber, Full-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.: R-2197, G-416, 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)**
The 3m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1.

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4.7 Test Instruments 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	2012-06-10
2	EMI Test Receiver	Rohde & Schwarz	ESIB26	SEL0023	2012-05-26
3	EMI Test software	AUDIX	E3	SEL0050	N/A
4	Coaxial cable	SGS	N/A	SEL0028	2012-05-29
5	BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEL0015	2012-10-29
6	Double-ridged horn (1-18GHz)	ETS-LINDGREN	3117	SEL0006	2012-10-29
7	Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEL0053	2012-05-26
8	Active Loop Antenna	Beijing Daze	ZN30900A	SEL0097	2012-10-28

General used equipment					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Due date (yyyy-mm-dd)
1	Humidity/ Temperature Indicator	Shanghai	ZJ1-2B	SEL0102 to SEL0103	2012-10-27
2	Humidity/ Temperature Indicator	Shanghai	ZJ1-2B	SEL0101	2012-10-27
3	Barometer	ChangChun	DYM3	SEL0088	2012-05-18

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5 Test Result & Measurement Data							
5.1 Antenna requirement							
Standard requirement:	FCC Part15 C Section 15.203						
<p><i>15.203 requirement:</i> <i>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.</i></p>							
5.2 Radiated Emissions							
Test Requirement:	FCC Part15 C Section 15.225						
Test Method:	ANSI C63.10: 2009						
Measurement Distance:	3m (Semi-Anechoic Chamber)						
Requirements:							
<p>(a) The field strength of any emissions within the band 13.553-13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters.</p> <p>(b) Within the bands 13.410-13.553 MHz and 13.567-13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.</p> <p>(c) Within the bands 13.110-13.410 MHz and 13.710-14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.</p> <p>(d) The field strength of any emissions appearing outside of the 13.110-14.010 MHz band shall not exceed the general radiated emission limits in § 15.209.</p>							
Detector:	<table style="width: 100%; border: none;"> <tr> <td style="width: 30%;">0.009MHz to 30MHz</td> <td>RBW=9KHz VBW=30kHz</td> </tr> <tr> <td>30MHz to 1000MHz</td> <td>RBW=100KHz VBW=300kHz</td> </tr> <tr> <td>Above 1000MHz</td> <td>RBW=1MHz VBW=3MHz</td> </tr> </table>	0.009MHz to 30MHz	RBW=9KHz VBW=30kHz	30MHz to 1000MHz	RBW=100KHz VBW=300kHz	Above 1000MHz	RBW=1MHz VBW=3MHz
0.009MHz to 30MHz	RBW=9KHz VBW=30kHz						
30MHz to 1000MHz	RBW=100KHz VBW=300kHz						
Above 1000MHz	RBW=1MHz VBW=3MHz						
Test Procedure:	<ol style="list-style-type: none"> 1. The EUT is placed on a turntable, which is 0.8m above ground plane. 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level. 3. EUT is set 3m away from the receiving antenna, which is moved from 1m to 4m to find out the maximum emissions. 4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance. 5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. 6. Repeat above procedures until the measurements for all frequencies are complete. 7. The limit 1.705MHz to 30MHz in clause 4.3 are specified at 30 meters, and measurements were made at 3 meters, the limit is translated to 3 meters by using a formula as follows: $\text{Limit}_{3m} = \text{Limit}_{30m} + 40\log(30m/3)$ 8. The radiation measurements are performed in X, Y, Z axis positioning. Only the worst case is shown in the report. 						
Test Result:	The unit does meet the FCC Part 15 C Section 15.225 requirements.						

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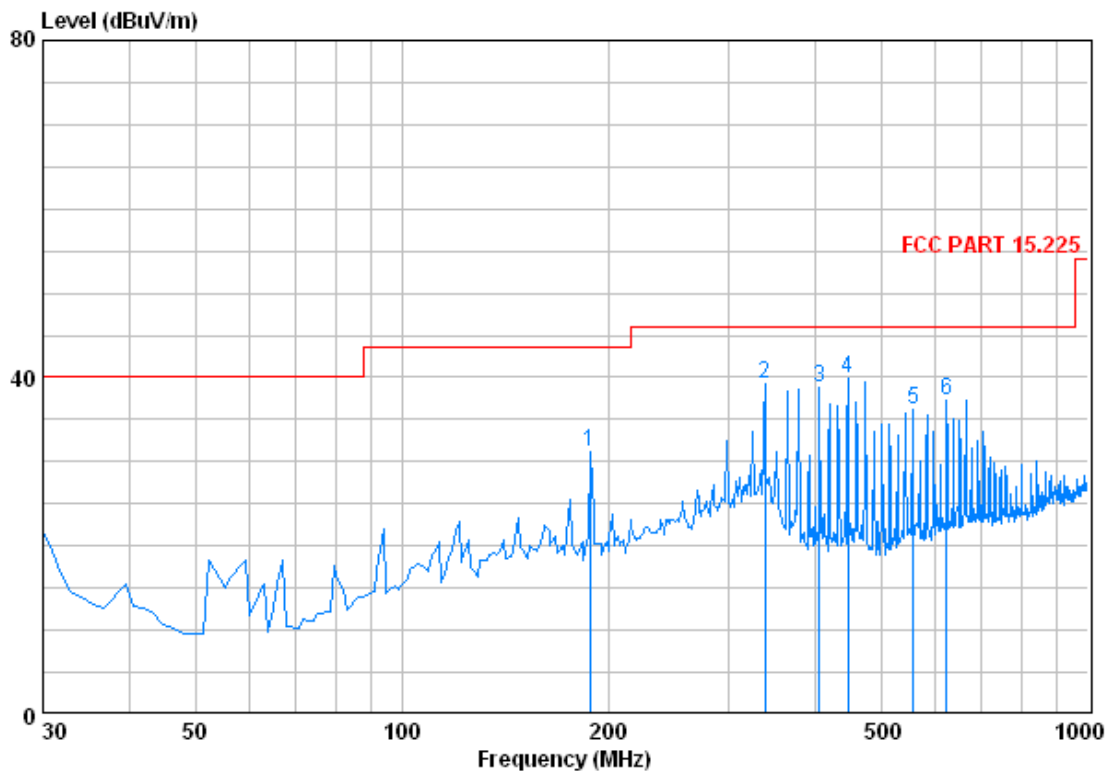
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1.705-30MHz Mode

Test Procedure: For testing performed with the loop antenna, testing was performed in accordance to ANSI C63.4: 2009, section 8.2.1. The center of the loop was positioned 1 m above the ground and positioned with its plane vertical at the specified distance from the EUT. During testing the loop was rotated about its vertical axis for maximum response at each azimuth and also investigated with the loop positioned in the horizontal plane. Only the worst position of vertical was shown in the report.

30MHz-1GHz

Horizontal



	Cable	Antenna	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Line	Limit		
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	188.110	1.38	10.06	26.74	46.49	31.19	43.50	-12.31
2	338.460	2.02	15.13	26.70	48.76	39.21	46.00	-6.79
3	405.390	2.22	16.32	27.17	47.41	38.78	46.00	-7.22
4	447.100	2.40	16.84	27.42	48.00	39.82	46.00	-6.18
5	555.740	2.66	18.95	27.61	42.15	36.15	46.00	-9.85
6	622.670	2.75	20.44	27.51	41.58	37.26	46.00	-8.74

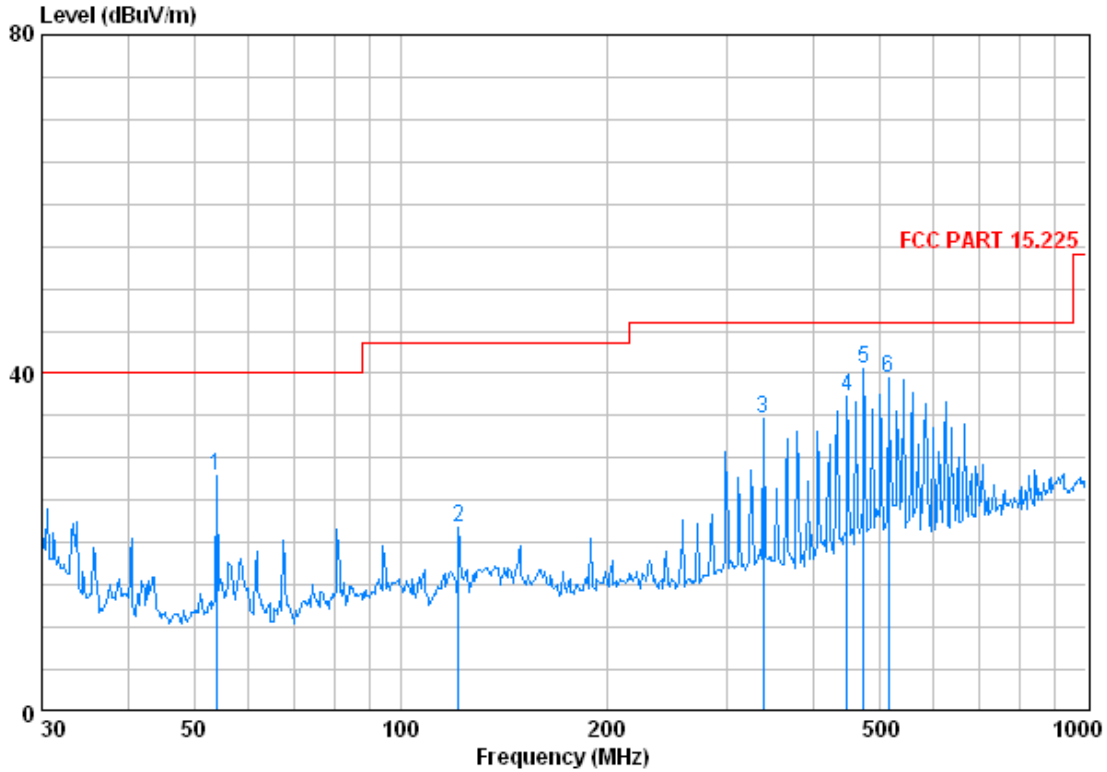
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Vertical



	Freq	Cable Loss	Antenna Factor	Preamp Factor	Read Level	Level	Limit	Over
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	53.882	0.80	7.67	27.28	46.66	27.85	40.00	-12.15
2	121.549	1.26	7.86	27.06	39.84	21.90	43.50	-21.60
3	338.400	2.02	15.13	26.70	44.31	34.76	46.00	-11.24
4	447.982	2.40	16.84	27.44	45.37	37.18	46.00	-8.82
5 @	473.835	2.51	17.80	27.58	47.80	40.52	46.00	-5.48
6	515.437	2.62	18.23	27.67	46.35	39.52	46.00	-6.48

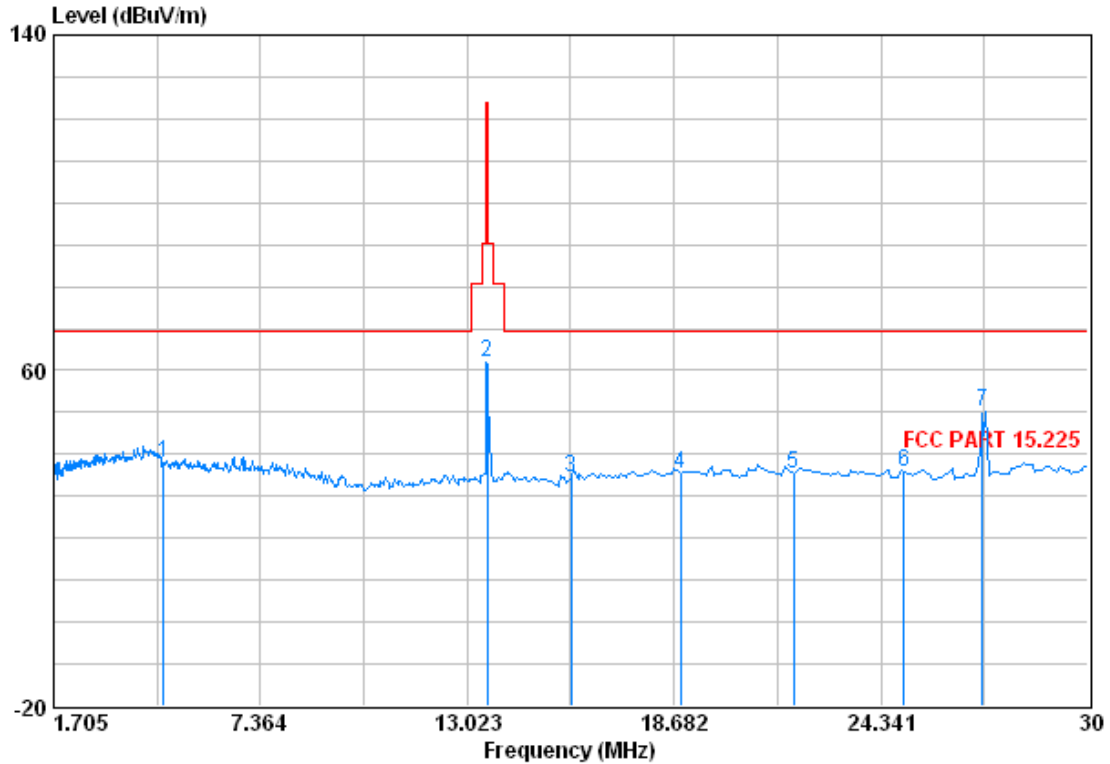
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1.705-30MHz



	Freq	CableAntenna	Read	Limit	Over		
	MHz	Loss	Level	Line	Limit		
		Factor	Level	Level	Line		
		dB	dB/m	dBuV	dBuV/m	dBuV/m	
1	4.705	0.17	23.21	14.48	37.86	69.50	-31.64
2	13.564	0.46	20.80	40.64	61.90	123.90	-62.00
3	15.872	0.53	21.55	12.58	34.67	69.50	-34.83
4	18.852	0.63	22.42	12.48	35.54	69.50	-33.96
5	21.947	0.73	22.35	12.09	35.17	69.50	-34.33
6	24.970	0.83	21.88	13.09	35.80	69.50	-33.70
7 @	27.120	0.90	21.58	27.85	50.33	69.50	-19.17

Remark:

The disturbance 9kHz to 1.705MHz was very low, and no obvious signal can be found.

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5.3 Frequency Tolerance	
Test Requirement:	FCC Part 15 C Section 15.225(e)
Test Method:	ANSI C63.10: 2009
Frequency range:	Operation within the band 13.110-14.010 MHz
Requirements:	The frequency tolerance of the carrier signal shall be maintained within +/- 0.01% of the operating frequency over a temperature variation of -20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.
Method of measurement:	The EUT was placed in an environmental test chamber and powered such that control element received normal voltage and the transmitter provided maximum RF output.
Test Result:	The unit does meet the FCC Part 15 C Section 15.225(e) requirements.

Test Frequency: 13.564MHz			Temperature: 20°C	
Supply Voltage (V)	Test Result (MHz)	Deviation (kHz)	Limit (kHz)	Result
4.5	13.56414	0.14	1.3564	Pass

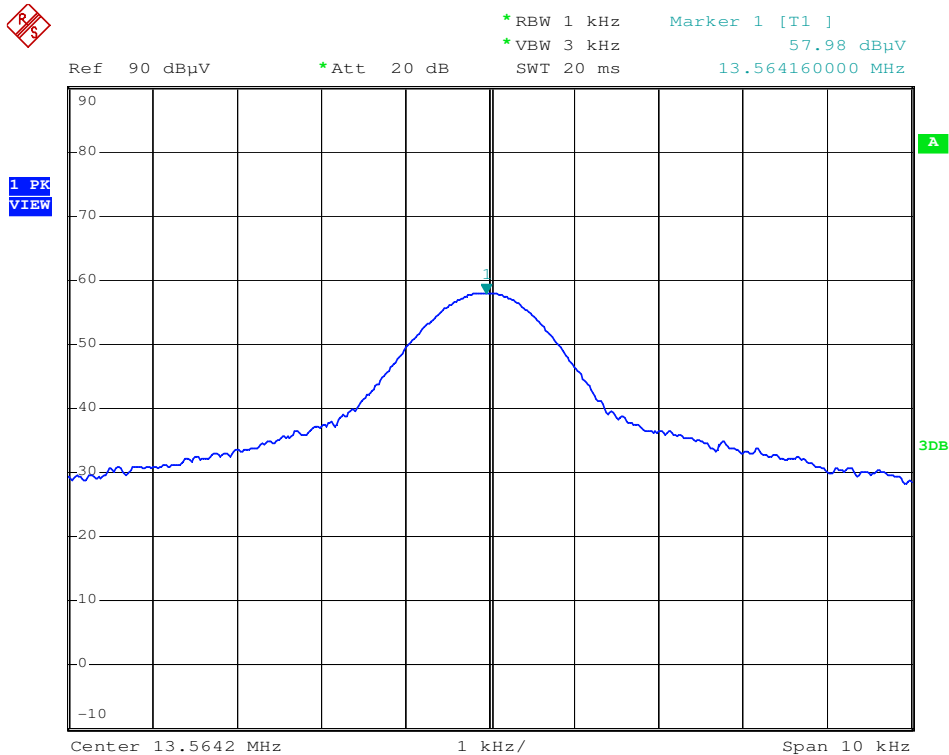
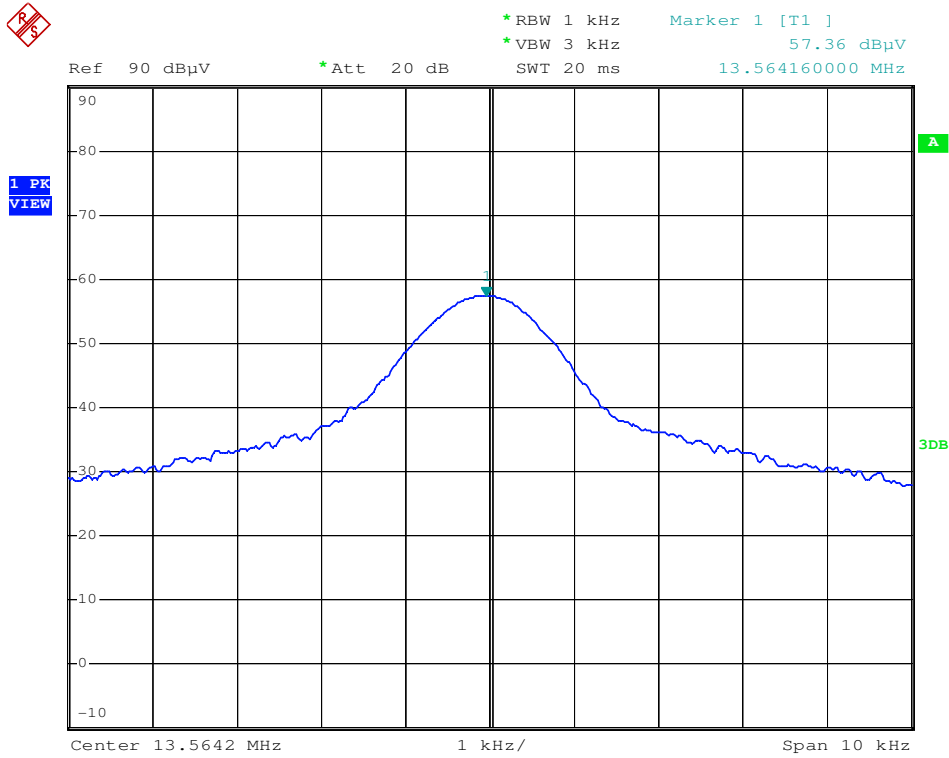
Test Frequency: 13.564MHz			Voltage: 4.5V	
Temperature (°C)	Test Result (MHz)	Deviation (kHz)	Limit (kHz)	Result
-20	13.56416	0.16	1.3564	Pass
-10	13.56416	0.16	1.3564	
0	13.56412	0.12	1.3564	
10	13.56414	0.14	1.3564	
20	13.56412	0.12	1.3564	
30	13.56416	0.16	1.3564	
40	13.56414	0.14	1.3564	
50	13.56414	0.14	1.3564	

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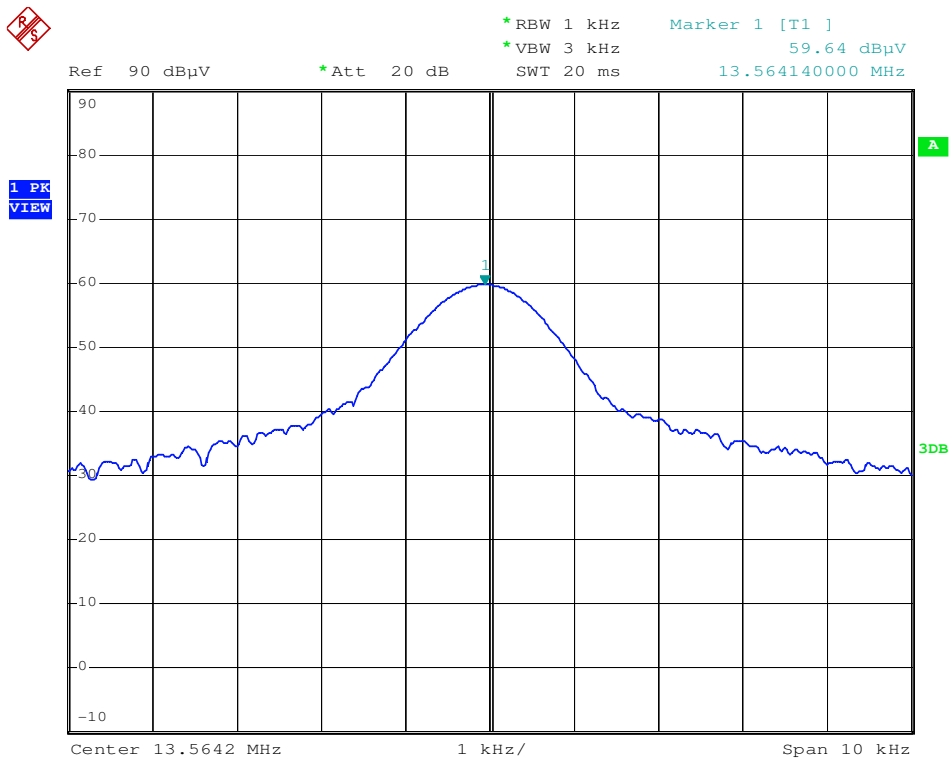
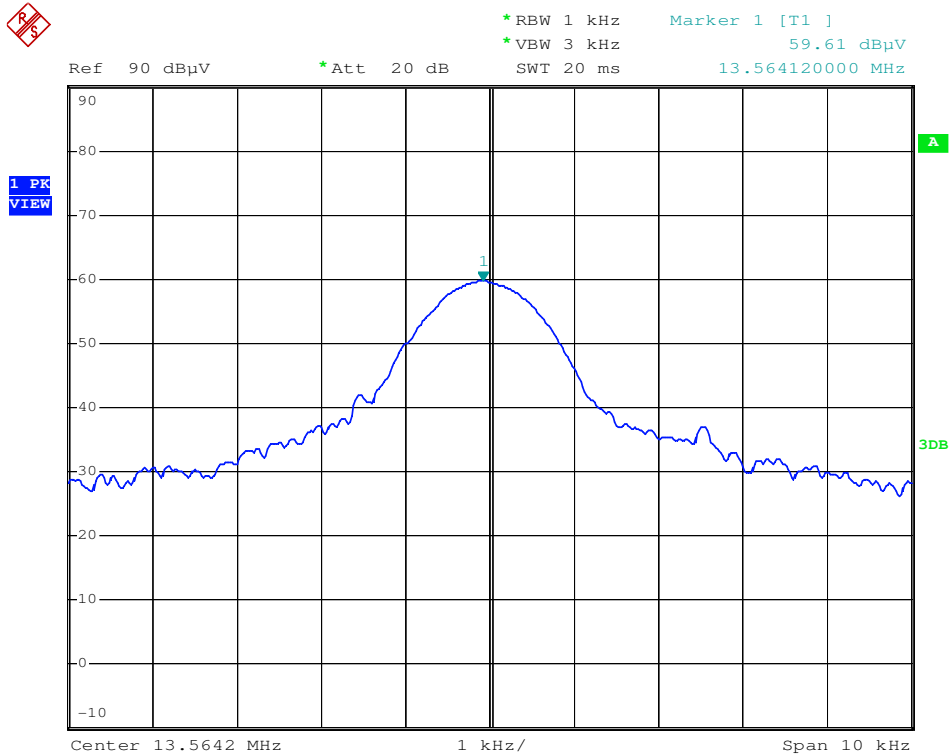


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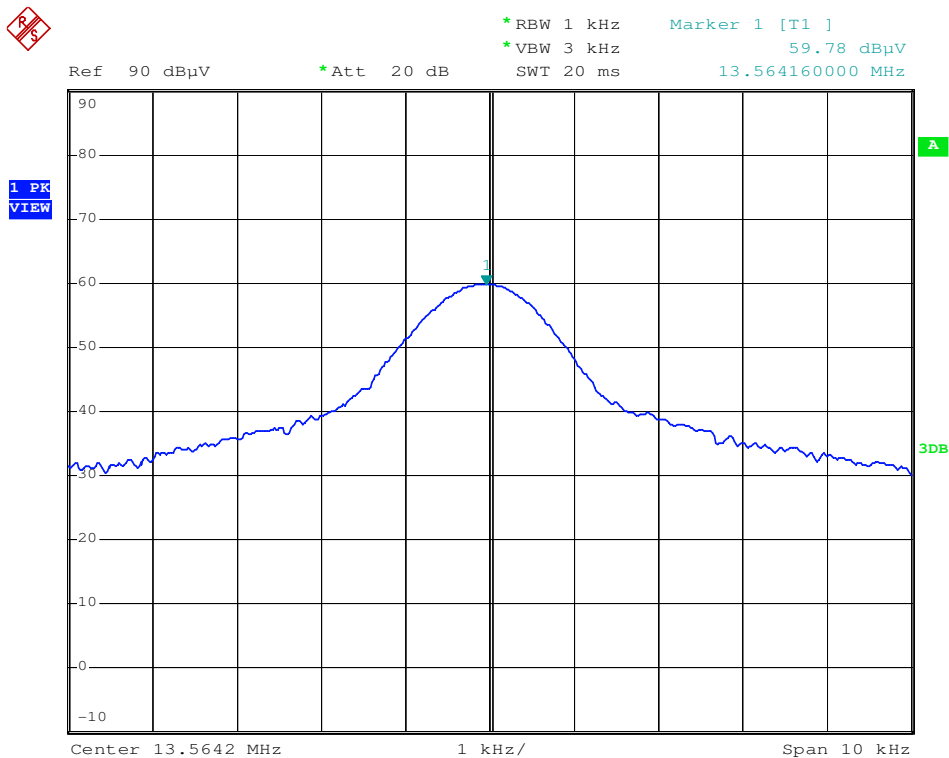
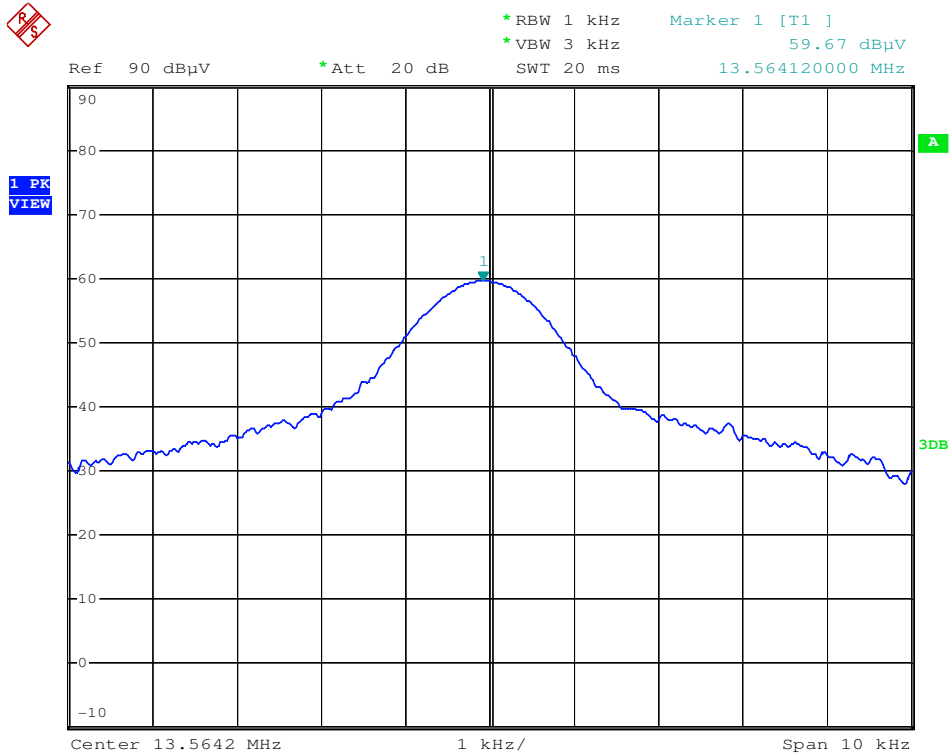


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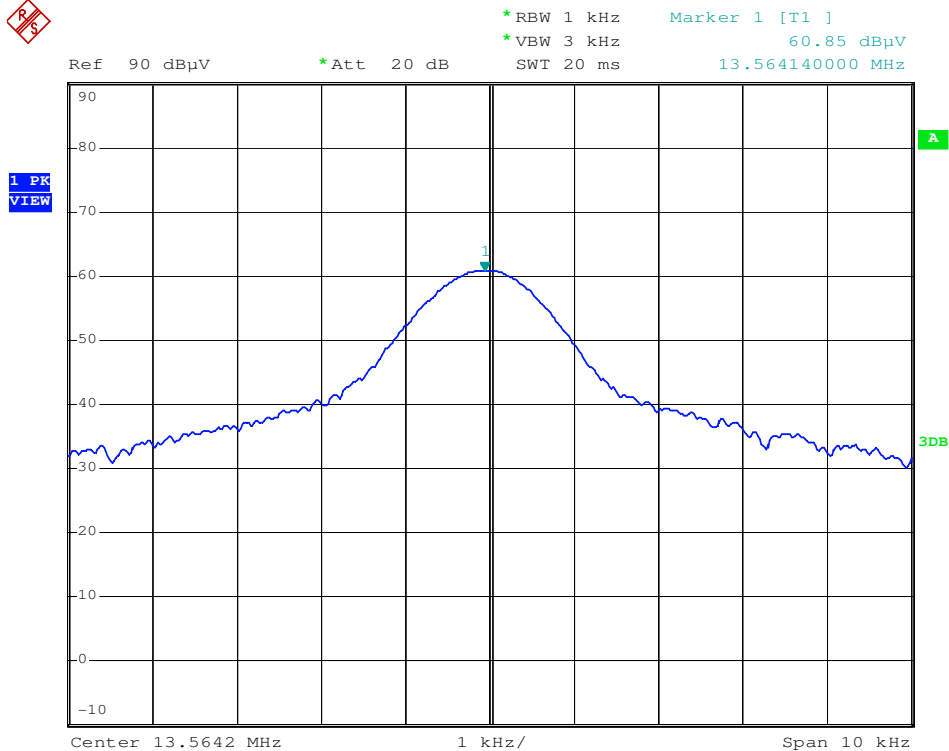
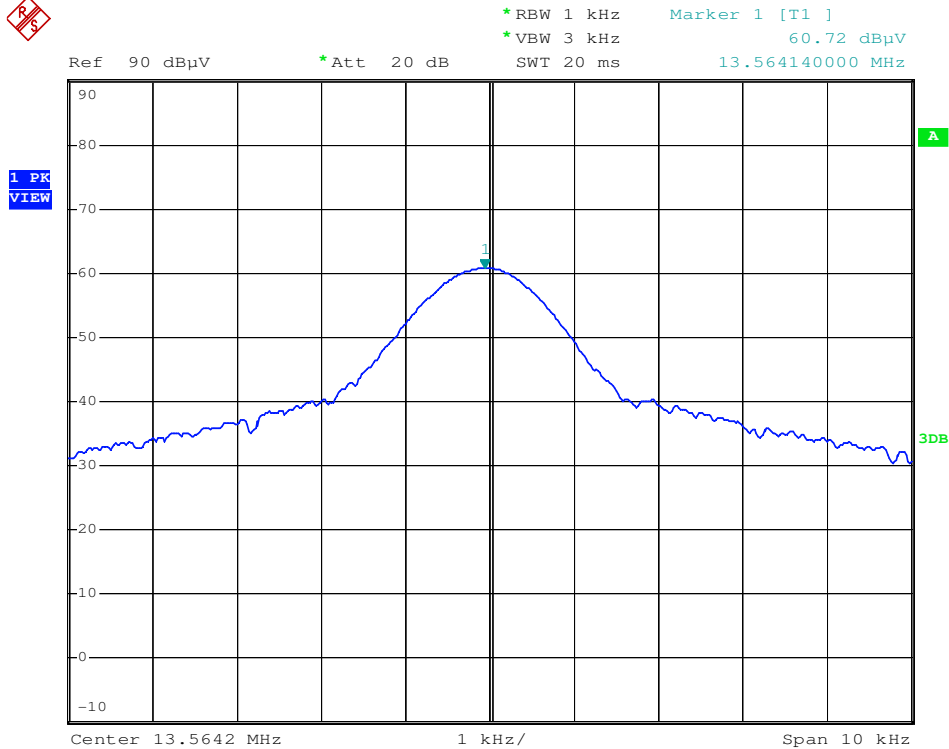


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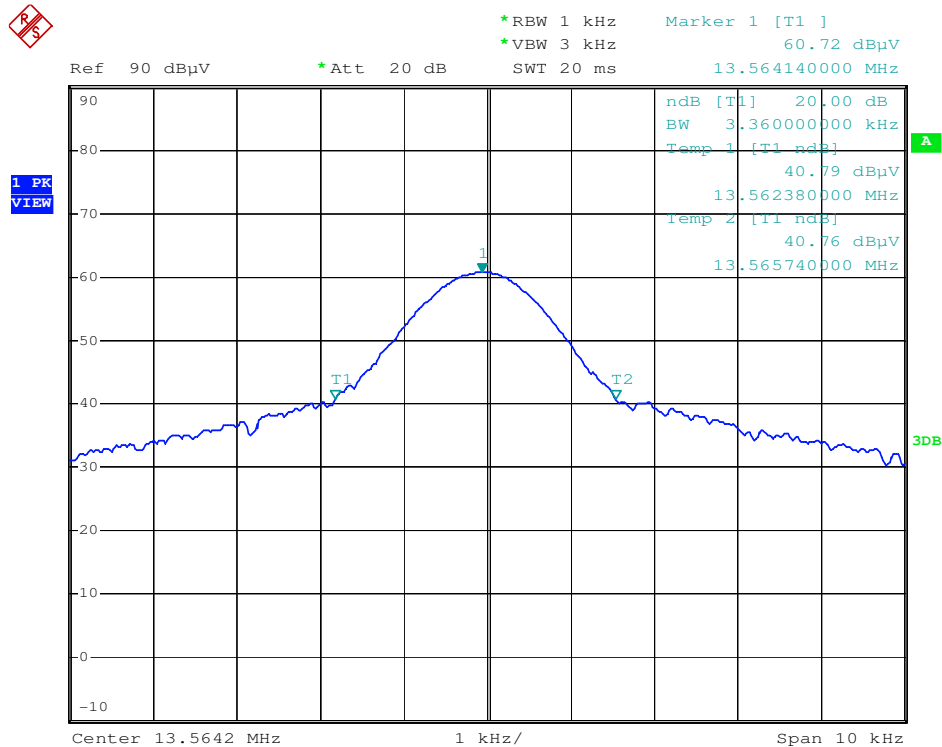
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5.4 Occupied Bandwidth	
Test Requirement:	FCC Part 15 C Section 15.215 (C)
Test Method:	ANSI C63.10: 2009
Frequency range:	Operation within the band 13.110-14.010 MHz
Requirements:	Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission is contained within the frequency band designated in the rule section under which the equipment is operated. The requirement to contain the 20 dB bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.
Method of measurement:	The useful radiated emission from the EUT was detected by the spectrum analyser with peak detector.
Test Result:	The unit does meet the FCC Part 15 C Section 15.215 requirements.

The graph as below: represents the emissions take for this device.



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