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FEDERAL COMMUNICATIONS COMMISSION
Registration number: 282399

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FCC ID: TW5GT4065

TEST REPORT

Application No.: SZEMO081206076RF

Applicant/ Manufacturer/ Shenzhen Gospell Smarthome Electronic Co., LTD.

Factory:

FCC ID: TW5GT4065

Fundamental Carrier Frequency: 2.414GHz to 2.468GHz

Equipment Under Test (EUT):

Name: 2.4G Wireless Rearview Camera and Receiver

Model: GT4065 Trade Mark: Goscam

Standards: FCC PART 15: 2008

Date of Receipt: 10 December 2008

Date of Test: 10 December 2008 to 12 March 2009

Date of Issue: 21 March 2009

Test Result : PASS *

Authorized Signature:

Robinson Lo 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.

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^{*} In the configuration tested, the EUT complied with the standards specified above.



Report No.: SZEMO081206076RFF

Page: 2 of 20

2 Test Summary

Test	Test Requirement	Standard Paragraph	Result
Flied Strength of Fundamental	FCC PART 15 : 2008	Section 15.249 (a)	PASS
Flied Strength of Harmonics or other Frequency Emission	FCC PART 15 : 2008	Section 15.249 (a) Section 15.209/15.205	PASS
Occupied Bandwidth	FCC PART 15 : 2008	Section 15.249	PASS



Report No.: SZEMO081206076RFF

Page: 3 of 20

3 Contents

			Page
1	COV	ER PAGE	1
2	TEST	T SUMMARY	2
3		TENTS	
3	CON	TENIS	3
4	GEN	ERAL INFORMATION	4
	4.1	CLIENT INFORMATION	Δ
	4.2	GENERAL DESCRIPTION OF E.U.T	4
		DESCRIPTION OF SUPPORT UNITS	
		STANDARDS APPLICABLE FOR TESTING	
	4.5	TEST LOCATION	4
		OTHER INFORMATION REQUESTED BY THE CUSTOMER	
	4.7	TEST FACILITY	5
5	TEST	T RESULTS	6
	5.1	TEST INSTRUMENTS	6
		E.U.T. OPERATION	
	5.3	TEST PROCEDURE & MEASUREMENT DATA	
	5.3.1	Radiated Emissions	8
	532	P Occupied Bandwidth	18-20



Report No.: SZEMO081206076RFF

Page: 4 of 20

4 General Information

4.1 Client Information

Applicant Name: Shenzhen Gospell Smarthome Electronic Co., LTD.

Applicant Address: West, 5F/ Block2, Vision(SZ) Park, South Hi-Tech, Industrial Park,

Nanshan, Shenzhen, P.R.China

Manufacturer/ Factory 3F/ Block A2, Xinghong Industial Park, Fenghuanggang, Xixiang Town,

Address: Baoan, District, Shenzhen, P.R.China

4.2 General Description of E.U.T

Product Name: 2.4G Wireless Rearview Camera and Receiver

Model: GT4065
Power Supply: DC 12V
Power Cord: N/A-

4.3 Description of Support Units

The EUT was tested as an independent unit: a 2.4G Wireless Rearview Camera and Receiver

4.4 Standards Applicable for Testing

The customer requested FCC tests for a 2.4G Wireless Rearview Camera and Receiver The standard used was FCC PART 15, SUBPART C (2008) section 15.249.

4.5 Test Location

All tests were performed at:

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

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

No tests were sub-contracted.

4.6 Other Information Requested by the Customer

None.



Report No.: SZEMO081206076RFF

Page: 5 of 20

4.7 Test Facility

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

NVLAP – Lab Code: 200811-0

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is recognized under the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200811-0. Effective through December 31, 2008.

ACA

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our NVLAP accreditation.

VCCI

The 3m Semi-anechoic chamber and Shielded Room (11.5m \times 4m \times 4m) of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-1599 and C-1706 respectively.

Date of Registration:June 01, 2005. Valid until February 22, 2008

SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

CNAL – LAB Code: L0141

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAL/AC01: 2002 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:1999 General Requirements) for the Competence of Testing Laboratories.

FCC – Registration No.: 282399

SGS-CSTC Standards Technical Services Co., Ltd., 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 282399, May 31, 2002. With the above and NVLAP's accreditation, SGS-CSTC is an authorised test laboratory for the DoC process.

• 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.: 5169.



Report No.: SZEMO081206076RFF

Page: 6 of 20

5 Test Results

5.1 Test Instruments

	RE in Chamber										
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (dd-mm-yy)	Cal.Due date (dd-mm-yy)					
1	3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEL0017	16-06-2007	15-06-2009					
2	EMI Test Receiver	Rohde & Schwarz	ESIB26	SEL0023	12-12-2008	11-12-2009					
3	EMI Test software	AUDIX	E3	SEL0050	N/A	N/A					
4	Coaxial cable	SGS	N/A	SEL0028	18-06-2008	17-06-2009					
5	BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEL0014	12-08-2008	11-08-2009					
6	Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEL0053	18-06-2008	17-06-2009					
7	Double-ridged horn (1-18GHz)	ETS-LINDGREN	3117	SEL0005	12-08-2008	11-08-2009					
8	Horn Antenna (18-26GHz)	ETS-LINDGREN	3160	SEL0076	12-08-2008	11-08-2009					
9	Pre-amplifier (1-18GHz)	Rohde & Schwarz	AFS42-00101 800-25-S-42	SEL0081	18-06-2008	17-06-2009					
10	Pre-amplifier (18-26GHz)	Rohde & Schwarz	AFS33- 18002650-30- 8P-44	SEL0080	18-06-2008	17-06-2009					
11	Band filter	Amindeon	82346	SEL0094	18-06-2008	17-06-2009					
12	Active Loop Antenna	Beijing Daze	ZN30900A	SEL0097	15-06-2008	14-06-2009					
13	UNIVERSAL RADIO COMMUNICATION TESTER	Rohde & Schwarz	CMU200	SEL0091	18-06-2008	17-06-2009					



Report No.: SZEMO081206076RFF

Page: 7 of 20

5.2 E.U.T. Operation

Input voltage: DC 12V

Operating Environment:

Temperature: 24°C
Humidity: 50 % RH
Atmospheric Pressure: 1010 mbar

EUT Operation: Test in transmitting mode:

For channel 1: 2.414GHz.
 For channel 3: 2.450GHz.
 For channel 4: 2.468GHz.



Report No.: SZEMO081206076RFF

Page: 8 of 20

5.3 Test Procedure & Measurement Data

5.3.1 Radiated Emissions

5.3.1.1 Test in transmitting mode

Test Requirement: FCC Part15.249,15.209 and 15.205

Test Method: ANSI C63.4:2003

Measurement Distance: 3m (Semi-Anechoic Chamber)

Frequency range 30 MHz – 25GHz Test instrumentation resolution bandwidth

Frequency Range	Detector	RBW/VBW		
30MHz to 1000MHz	Quasi-Peak	120KHz/300KHz		
	Peak	1MHz/3MHz		
1GHz to 25GHz	Average	1MHz/10Hz		

Operation: Receive antenna scan height 1 - 4 m, polarization Vertical/ Horizontal

<u> </u>		
Fundamental Frequency	Field Strength of Fundamental	Field Strength of Harmonics and Spurious Emissions
(MHz)	(dBuV/m @ 3m)	(dBuV/m @ 3m)
902 to 928	94.0	54.0
2400 to 2483.5	94.0	54.0
5725 to 5875	94.0	54.0
24000 to 24250	108.0	68.0

The fundamental frequency of the EUT is 2.414GHz to 2.468GHz

The limit for average field strength dBuv/m for the fundamental frequency = 94.0 dBμV/m.

No fundamental is allowed in the restricted bands.

Test Procedure:

- 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 varied from 1m to 4m to find out the highest 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 radiation measurements are performed in X, Y, Z axis positioning. Only the worst case is shown in the report.

FCC ID: TW5GT4065

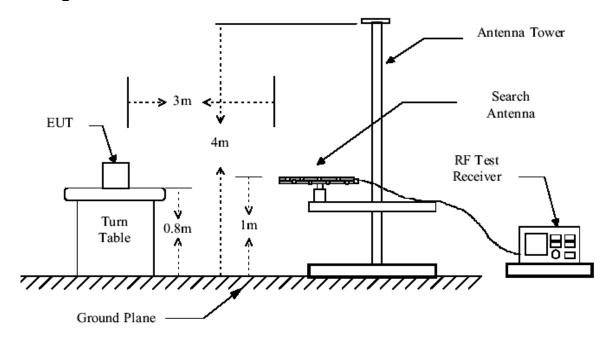
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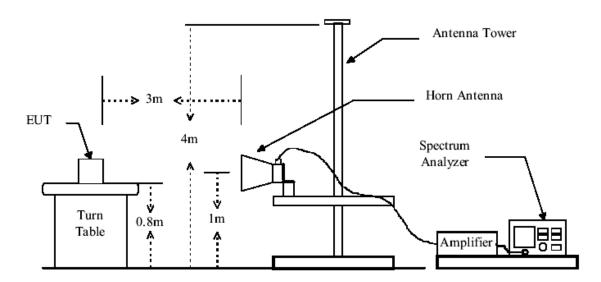


Report No.: SZEMO081206076RFF

Page: 9 of 20

Test Configuration:





FCC ID: TW5GT4065

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Report No.: SZEMO081206076RFF

Page: 10 of 20

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

The following test results were performed on the EUT:

1. The following test results were performed at 30MHz—1GHz

Model GB6904

Vertical:

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)
40.670	0.62	10.93	28.09	42.20	25.66	40.00	-14.34
140.580	1.30	8.15	27.52	46.21	28.14	43.50	-15.36
183.260	1.37	9.97	27.24	46.46	30.56	43.50	-12.94
191.990	1.39	10.12	27.20	48.05	32.36	43.50	-11.14
277.350	1.80	12.89	26.80	39.90	27.79	46.00	-18.21
479.110	2.52	17.80	27.65	38.85	31.52	46.00	-14.48

Horizontal

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)
122.150	1.26	7.85	27.67	46.88	28.32	43.50	-15.18
140.580	1.30	8.15	27.52	55.46	37.39	43.50	-6.11
183.260	1.37	9.97	27.24	53.41	37.51	43.50	-5.99
193.608	1.39	10.14	27.19	53.00	37.34	43.50	-6.16
277.350	1.80	12.89	26.80	51.21	39.10	46.00	-6.90
381.140	2.15	16.08	27.29	44.88	35.82	46.00	-10.18



Report No.: SZEMO081206076RFF

Page: 11 of 20

Model GL4013

Vertical:

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)
40.670	0.62	10.93	28.09	44.43	27.89	40.00	-12.11
51.340	0.80	7.89	28.10	42.25	22.84	40.00	-17.16
140.580	1.30	8.15	27.52	48.62	30.55	43.50	-12.95
191.990	1.39	10.12	27.20	48.18	32.49	43.50	-11.01
211.390	1.47	10.81	27.09	44.55	29.74	43.50	-13.76
277.350	1.80	12.89	26.80	42.15	30.04	46.00	-15.96

Horizontal

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)
140.580	1.30	8.15	27.52	54.77	36.70	43.50	-6.80
183.260	1.37	9.97	27.24	53.63	37.73	43.50	-5.77
193.554	1.39	10.14	27.19	54.40	38.74	43.50	-4.76
225.940	1.55	11.53	27.02	52.08	38.14	46.00	-7.86
277.350	1.80	12.89	26.80	53.91	41.80	46.00	-4.20
381.140	2.15	16.08	27.29	44.40	35.34	46.00	-10.66



Report No.: SZEMO081206076RFF

Page: 12 of 20

2. The following test results were performed at above 1GHz For 2414MHz:

Harmonics & Spurious Emissions

Peak Measurement

	Cabla	Antonna	Drooms	Doodina	Emissis	Limit		
Frequency (MHz)	Cable loss (dB)	Antenna factors (dB/m)	Preamp factor (dB)	Reading Level (dBµV)	Emission Level (dBµV/m)	Limit (dBµV/ m)	Over limit	polarization
2414	4.99	32.25	0	40.99	78.23	114	-35.77	Vertical
2390	4.97	32.24	0	19.73	56.94	74.00	-17.06	Vertical
2400	4.97	32.25	0	21.41	58.63	74.00	-15.37	Vertical
4828	6.62	34.03	45.40	47.15	42.40	74.00	-31.60	Vertical
7242	7.62	36.25	44.48	35.27	34.66	74.00	-39.34	Vertical
9656	8.55	37.03	42.17	35.10	38.51	74.00	-35.49	Vertical
12070	10.12	38.84	43.40	34.74	40.30	74.00	-33.70	Vertical
2414	4.99	32.25	0	44.45	81.69	114	32.31	Horizontal
2390	4.97	32.24	0	20.29	57.5	74.00	-16.50	Horizontal
2400	4.97	32.25	0	20.66	57.88	74.00	-16.12	Horizontal
4828	6.62	34.03	45.40	46.40	41.65	74.00	-32.35	Horizontal
7242	7.62	36.25	44.48	36.62	36.01	74.00	-37.99	Horizontal
9656	8.55	37.03	42.17	34.91	38.32	74.00	-35.68	Horizontal
12070	10.12	38.84	43.40	33.34	38.90	74.00	-35.10	Horizontal



Report No.: SZEMO081206076RFF

Page: 13 of 20

Average Measurement

Average Mea	Surement	ı					ı	<u></u>
Frequency (MHz)	Cable loss (dB)	Antenna factors (dB/m)	Preamp factor (dB)	Reading Level (dBµV)	Emission Level (dBµV/m)	Limit (dBµV/ m)	Over limit	polarization
2414	4.99	32.25	0	20.92	58.16	94	-35.84	Vertical
2390	4.97	32.24	0	8.62	45.83	54.00	-8.17	Vertical
2400	4.97	32.25	0	8.94	46.16	54.00	-7.84	Vertical
4828	6.62	34.03	45.40	27.97	23.22	54.00	-30.78	Vertical
7242	7.62	36.25	44.48	24.34	23.73	54.00	-30.27	Vertical
9656	8.55	37.03	42.17	23.78	27.19	54.00	-26.81	Vertical
12070	10.12	38.84	43.40	22.39	27.95	54.00	-26.05	Vertical
2414	4.99	32.25	0	24.52	61.76	94	-32.24	Horizontal
2390	4.97	32.24	0	8.61	45.82	54.00	-8.18	Horizontal
2400	4.97	32.25	0	8.92	46.14	54.00	-7.86	Horizontal
4828	6.62	34.03	45.40	28.55	23.80	54.00	-30.20	Horizontal
7242	7.62	36.25	44.48	24.41	23.80	54.00	-30.20	Horizontal
9656	8.55	37.03	42.17	23.94	27.35	54.00	-26.65	Horizontal
12070	10.12	38.84	43.40	22.51	28.07	54.00	-25.93	Horizontal



Report No.: SZEMO081206076RFF

Page: 14 of 20

For 2450MHz:

. Harmonics & Spurious Emissions

Peak Measurement

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Frequency (MHz)	Cable loss (dB)	Antenna factors (dB/m)	Preamp factor (dB)	Reading Level (dBµV)	Emission Level (dBµV/m)	Limit (dBµV/ m)	Over limit	polarization
2450	5.03	32.27	0	42.72	80.02	114	-33.98	Vertical
4899	6.65	34.02	45.42	48.02	43.27	74.00	-30.73	Vertical
4900	6.65	34.02	45.42	45.74	40.99	74.00	-33.01	Vertical
7350	7.57	36.06	44.35	34.22	33.50	74.00	-40.50	Vertical
9800	8.68	37.14	42.03	32.66	36.45	74.00	-37.55	Vertical
2450	5.03	32.27	0	40.85	78.15	114	-35.85	Horizontal
4899	6.65	34.02	45.42	47.26	42.51	74.00	-31.49	Horizontal
4900	6.65	34.02	45.42	43.24	38.49	74.00	-35.51	Horizontal
7350	7.57	36.06	44.35	32.99	32.27	74.00	-41.73	Horizontal
9800	8.68	37.14	42.03	32.62	36.41	74.00	-37.59	Horizontal

Average Measurement

Frequency (MHz)	Cable loss (dB)	Antenna factors (dB/m)	Preamp factor (dB)	Reading Level (dBµV)	Emission Level (dBµV/m)	Limit (dBµV/ m)	Over limit	polarization
2450	5.03	32.27	0	27.89	65.19	94	-28.81	Vertical
4900	6.65	34.02	45.42	28.29	23.54	54.00	-30.46	Vertical
7350	7.57	36.06	44.35	22.17	21.45	54.00	-32.55	Vertical
9800	8.68	37.14	42.03	21.17	24.96	54.00	-29.04	Vertical
12250	10.18	38.95	43.63	20.96	26.46	54.00	-27.54	Vertical
2450	5.03	32.27	0	19.18	56.48	94	-37.52	Horizontal
4900	6.65	34.02	45.42	28.22	23.47	54.00	-30.53	Horizontal
7350	7.57	36.06	44.35	22.21	21.49	54.00	-32.51	Horizontal
9800	8.68	37.14	42.03	21.14	24.93	54.00	-29.07	Horizontal
12250	10.18	38.95	43.63	21.01	26.51	54.00	-27.49	Horizontal

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Report No.: SZEMO081206076RFF

Page: 15 of 20

For 2468MHz:

Harmonics & Spurious Emissions

Peak Measurement

T Car Mcasur	reak Measulement									
Frequency (MHz)	Cable loss (dB)	Antenna factors (dB/m)	Preamp factor (dB)	Reading Level (dBµV)	Emission Level (dBµV/m)	Limit (dBµV/ m)	Over limit	polarization		
2468	5.06	32.28	0	34.84	72.18	114	-41.82	Vertical		
2483.5	5.08	32.29	0	19.47	56.84	74.00	-17.16	Vertical		
2500	5.1	32.3	0	19.69	57.09	74.00	-16.91	Vertical		
4936	6.67	34.01	45.44	39.47	34.71	74.00	-39.29	Vertical		
7404	7.54	35.95	44.30	38.15	37.34	74.00	-36.66	Vertical		
9872	8.73	37.19	41.97	32.62	36.57	74.00	-37.43	Vertical		
12340	10.21	38.99	43.74	35.92	41.38	74.00	-32.62	Vertical		
2468	5.06	32.28	0	32.19	69.53	114	-44.47	Horizontal		
2483.5	5.08	32.29	0	19.97	57.34	74.00	-16.66	Horizontal		
2500	5.1	32.3	0	19.96	57.36	74.00	-16.64	Horizontal		
4936	6.67	34.01	45.44	41.71	36.95	74.00	-37.05	Horizontal		
7404	7.54	35.95	44.30	39.95	39.14	74.00	-34.86	Horizontal		
9872	8.73	37.19	41.97	32.52	36.47	74.00	-37.53	Horizontal		
12340	10.21	38.99	43.74	35.34	40.80	74.00	-33.20	Horizontal		



Report No.: SZEMO081206076RFF

Page: 16 of 20

Average Measurement

Frequency (MHz)	Cable loss (dB)	Antenna factors (dB/m)	Preamp factor (dB)	Reading Level (dBµV)	Emission Level (dBµV/m)	Limit (dBµV/ m)	Over limit	polarization
2468	5.06	32.28	0	14.45	51.79	94	-42.21	Vertical
2483.5	5.08	32.29	0	8.22	45.59	54.00	-8.41	Vertical
2500	5.1	32.3	0	8.25	45.65	54.00	-8.35	Vertical
4936	6.67	34.01	45.44	27.84	23.08	54.00	-30.92	Vertical
7404	7.54	35.95	44.30	25.82	25.01	54.00	-28.99	Vertical
9872	8.73	37.19	41.97	21.05	25.00	54.00	-29.00	Vertical
12340	10.21	38.99	43.74	24.23	29.69	54.00	-24.31	Vertical
2468	5.06	32.28	0	15.92	53.26	94	-40.74	Horizontal
2483.5	5.08	32.29	0	8.24	45.61	54.00	-8.39	Horizontal
2500	5.1	32.3	0	8.25	45.65	54.00	-8.35	Horizontal
4936	6.67	34.01	45.44	28.06	23.30	54.00	-30.70	Horizontal
7404	7.54	35.95	44.30	26.05	25.24	54.00	-28.76	Horizontal
9872	8.73	37.19	41.97	20.88	24.83	54.00	-29.17	Horizontal
12340	10.21	38.99	43.74	24.18	29.64	54.00	-24.36	Horizontal



Report No.: SZEMO081206076RFF

Page: 17 of 20

N/A: refer to remark 1).

Remark:

1). For this intentional radiator operates below 10 GHz, the spectrum shall be investigated to the tenth harmonic of the highest fundamental frequency. And above the fifth harmonic of this intentional radiator, the disturbance is very low. So the test result only displays to 4th harmonic.

2). According to 15.249 (e) As shown in Section 15.35(b), for frequencies above 1000 MHz, the above field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

TEST RESULTS: The unit does meet the FCC requirements.



Report No.: SZEMO081206076RFF

Page: 18 of 20

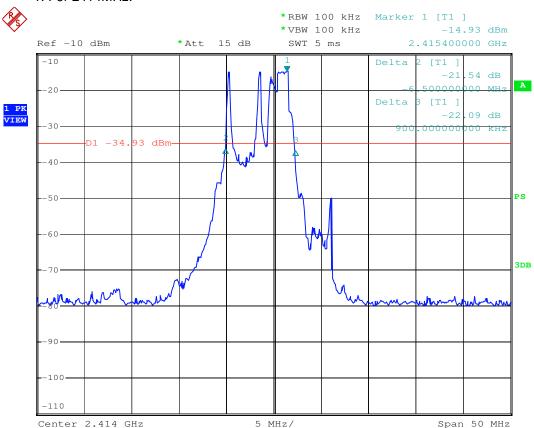
5.3.2 Occupied Bandwidth

Test Requirement: FCC Part 15.249
Test Method: ANSI C63.4:2003

Operation within the band 2.414 - 2.468GHz

The occupied bandwidth as below:

1. For 2414MHz:



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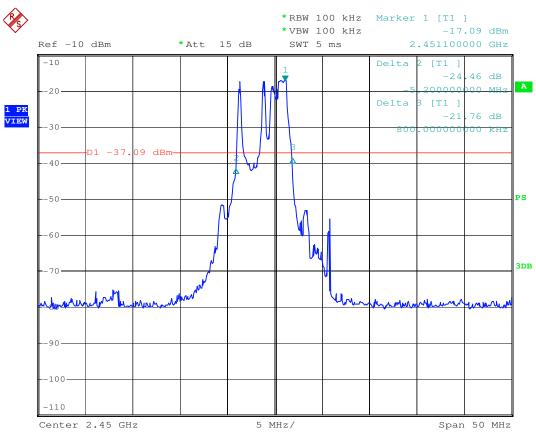
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Report No.: SZEMO081206076RFF

Page: 19 of 20

2. For 2450MHz:



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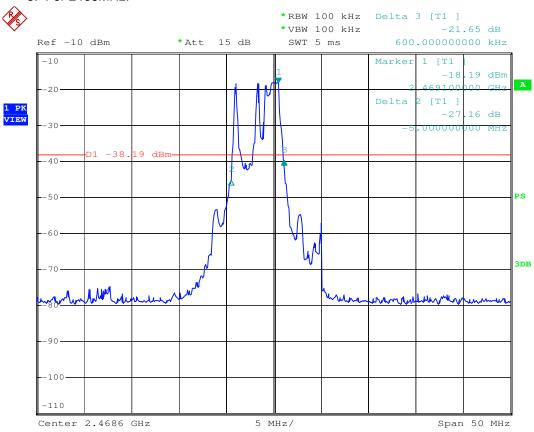
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Report No.: SZEMO081206076RFF

Page: 20 of 20

3. For 2468MHz:



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