



FCC PART 15C TEST REPORT FOR CERTIFICATION  
On Behalf of

GRACO CHILDREN'S PRODUCTS, INC.

Baby monitor

Model Number: PD238111

FCC ID: M6YPD238111

Prepared for : GRACO CHILDREN'S PRODUCTS, INC.  
3 Glenlake Parkway, Atlanta, GA, USA 30328

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Date of Test : May.29~Jun.10, 2013  
Date of Report : Jun.21, 2013

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### TEST REPORT CERTIFICATION

Applicant : GRACO CHILDREN'S PRODUCTS, INC.  
Manufacturer : Honor Tone Limited  
EUT Description : Baby monitor  
FCC ID : M6YPD238111  
(A) MODEL NO. : PD238111  
(B) SERIAL NO. : N/A  
(C) POWER SUPPLY : DC 4.5V  
(D) TEST VOLTAGE : DC 4.5V From Adapter Input AC 120V/60Hz

Tested for comply with:  
FCC Rules and Regulations Part 15 Subpart C: 2012

Test procedure used:  
ANSI C63.10:2009

The device described above is tested by AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. to confirm comply with all the FCC Part 15 Subpart C requirements.

The test results are contained in this test report and AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. is assumed full responsibility for the accuracy and completeness of these tests. This report contains data that are not covered by the NVLAP accreditation. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

This Report is made under FCC Part 2.1075. No modifications were required during testing to bring this product into compliance.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

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.

Date of Test : May.29~ Jun.10, 2013 Report of date: Jun.21, 2013

Prepared by : Julia Zhu / Assistant  
Reviewed by : Sunny Lu / Assistant Manager  
信華科技(深圳)有限公司  
Audix Technology (Shenzhen) Co., Ltd.  
EMC 部門報告專用章

Approved & Authorized Signer : David Jin / Deputy Manager  
Stamp only for EMC Dept. Report  
Signature: David Jin 6/21

## 1. SUMMARY OF STANDARDS AND RESULTS

### 1.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

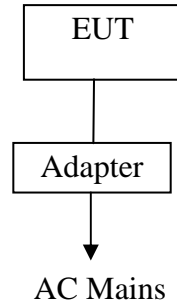
EMISSION		
Description of Test Item	Standard	Results
Power Line Conducted Emission	FCC Part 15: 15.207 ANSI C63.10: 2009	PASS
Radiated Emission	FCC Part 15: 15.209 ANSI C63.10: 2009	PASS
Band Edge Compliance	FCC Part 15: 15.247 ANSI C63.10: 2009	PASS
Conducted spurious emissions	FCC Part 15: 15.247 ANSI C63.10: 2009	PASS
6dB Bandwidth	FCC Part 15: 15.247 ANSI C63.10: 2009	PASS
Peak Output Power	FCC Part 15: 15.247 ANSI C63.10: 2009	PASS
Power Spectral Density	FCC Part 15: 15.247 ANSI C63.10: 2009	PASS

## 2. GENERAL INFORMATION

### 2.1. Description of Device (EUT)

Product Name	: Baby monitor
Model Number	: PD238111
FCC ID	: M6YPD238111
Operation frequency	: 903.75MHz~927MHz
Antenna	: Wire antenna, 0dBi gain
Power Supply	: DC 4.5V
Applicant	: GRACO CHILDREN'S PRODUCTS, INC. 3 Glenlake Parkway, Atlanta, GA, USA 30328
Manufacturer	: Honor Tone Limited Lot No. 15-16, Western District of Science and Technology Park, Daya Bay Economy and Technology Development District, Huizhou City, Guangdong Province PRC.
Factory	: Honor Tone Limited Lot No. 15-16, Western District of Science and Technology Park, Daya Bay Economy and Technology Development District, Huizhou City, Guangdong Province PRC.
Power Adapter	: Manufacturer: GRACO M/N: N/M: KU1B-045-0200D Unshielded, Detachable , 1.9m
Date of Test	: May.29~Jun.10, 2013
Date of Receipt	: May.28, 2013
Sample Type	: Prototype production

## 2.2. Block Diagram of Test Setup



**(EUT: Baby monitor)**

Note : This device can be powered by battery and AC adapter, and according to Exposure test, Powered by AC Adapter have the worst case emission, So Reported this mode in the report.



### 2.3. Test Facility

Site Description

Name of Firm : Audix Technology (Shenzhen) Co., Ltd.  
 No. 6, Ke Feng Rd., 52 Block, Shenzhen  
 Science & Industrial Park, Nantou,  
 Shenzhen, Guangdong, China

3m Anechoic Chamber : Certificated by FCC, USA  
 Registration Number: 90454  
 Valid Date: Feb.22, 2015

3m & 10m Anechoic Chamber : Certificated by FCC, USA  
 Registration Number: 794232  
 Valid Date: Oct.31, 2015

EMC Lab. : Certificated by Industry Canada  
 Registration Number: IC 5183A-1  
 Valid Date: Jun.13, 2014

Certificated by DAkkS, Germany  
 Registration No: D-PL-12151-01-01  
 Valid Date: Feb.01, 2014

Accredited by NVLAP, USA  
 NVLAP Code: 200372-0  
 Valid Date: Mar.31, 2014

### 2.4. Measurement Uncertainty (95% confidence levels, k=2)

Test Item	Uncertainty
Uncertainty for Conduction emission test in No. 1 Conduction	3.1 dB(150kHz to 30MHz)
Uncertainty for Radiation Emission test in 3m chamber	3.22 dB(30~200MHz, Polarize: H)
	3.23 dB(30~200MHz, Polarize: V)
	3.31 dB(200M~1GHz, Polarize: H)
	3.21 dB(200M~1GHz, Polarize: V)
Uncertainty for Radiation Emission test in 3m chamber (1GHz-18GHz)	4.2dB (1~6GHz Distance: 3m)
	4.24 dB (6~18GHz Distance: 3m)
Uncertainty for Radiated Spurious Emission test in RF chamber	3.57dB
Uncertainty for Bandwidth test	83 kHz
Uncertainty for DC power test	0.038 %
Uncertainty for test site temperature and humidity	0.6°C
	3%

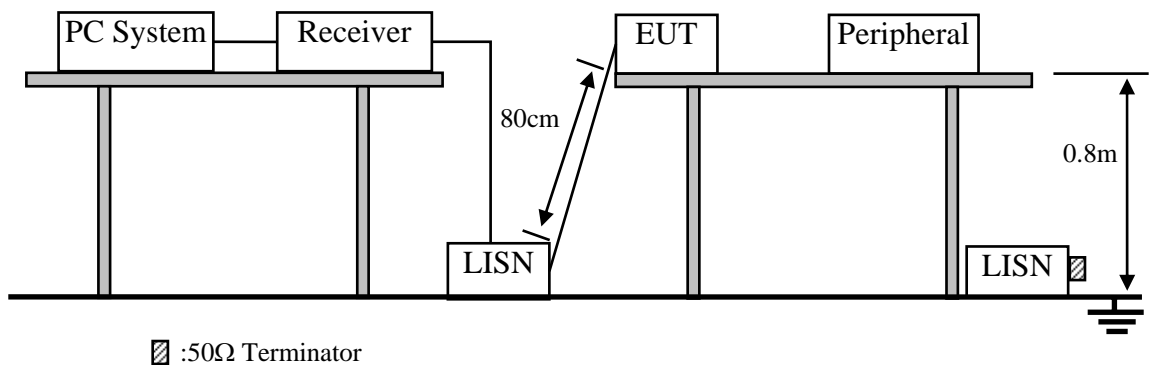


### 3. POWER LINE CONDUCTED EMISSION TEST

#### 3.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESHS10	838693/001	Oct.31, 12	1 Year
2.	L.I.S.N.#1	Rohde & Schwarz	ESH2-Z5	834066/011	Oct.31, 12	1 Year
3.	L.I.S.N.#3	Kyoritsu	KNW-242C	8-1920-1	May.08, 13	1 Year
4.	Terminator	Hubersuhner	50Ω	No. 1	May.08, 13	1 Year
5.	Terminator	Hubersuhner	50Ω	No. 2	May.08, 13	1 Year
6.	RF Cable	Fujikura	3D-2W	No.1	May.08, 13	1Year
7.	Coaxial Switch	Anritsu	MP59B	M50564	May.08, 13	1 Year
8.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100341	May.08, 13	1 Year

#### 3.2. Block Diagram of Test Setup



#### 3.3. Power Line Conducted Emission Test Limits

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB(μV)	Average Level dB(μV)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

Notes: 1. \* Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

#### 3.4. Configuration of EUT on Test

The following equipment are installed on Power Line Conducted Emission Test to meet the commission requirement and operating regulations in a manner which tends to maximize its emission characteristics in a normal application.

##### 3.4.1. Baby monitor (EUT)

Model Number : PD238111  
Serial Number : N/A

### 3.5. Operating Condition of EUT

- 3.5.1. Setup the EUT and simulator as shown as Section 4.2.
- 3.5.2. Turn on the power of all equipment.
- 3.5.3. Let the EUT work in test mode (TX Mode) and measure it.

### 3.6. Test Procedure

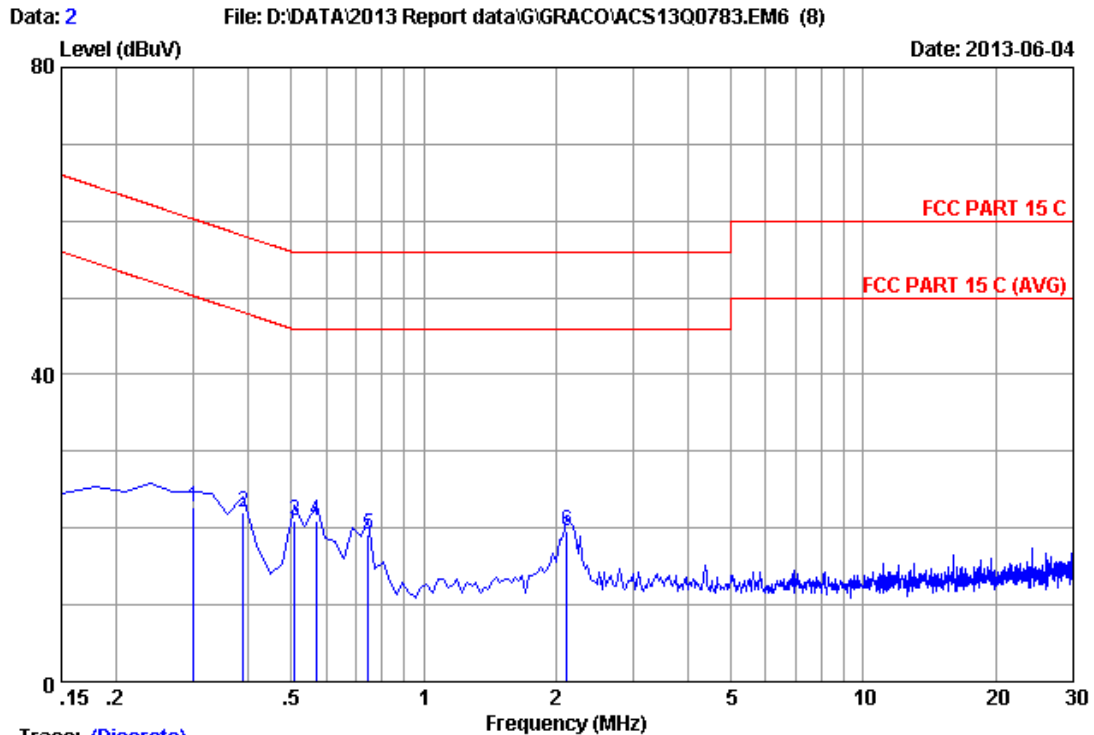
The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT Power connected to the power mains through a line impedance stabilization network (L.I.S.N. 1#). this provided a 50-ohm coupling impedance for the EUT (Please refer to the block diagram of the test setup and photographs). Both sides of power line were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.4-2009 on conducted Emission test.

The bandwidth of test receiver (R&S TEST RECEIVER ESHS10) is set at 9kHz.

The frequency range from 150kHz to 30MHz is checked. The test result are reported on Section 4.7.

### 3.7. Conducted Disturbance at Mains Terminals Test Results

**PASS.** (All emissions not reported below are too low against the prescribed limits.)

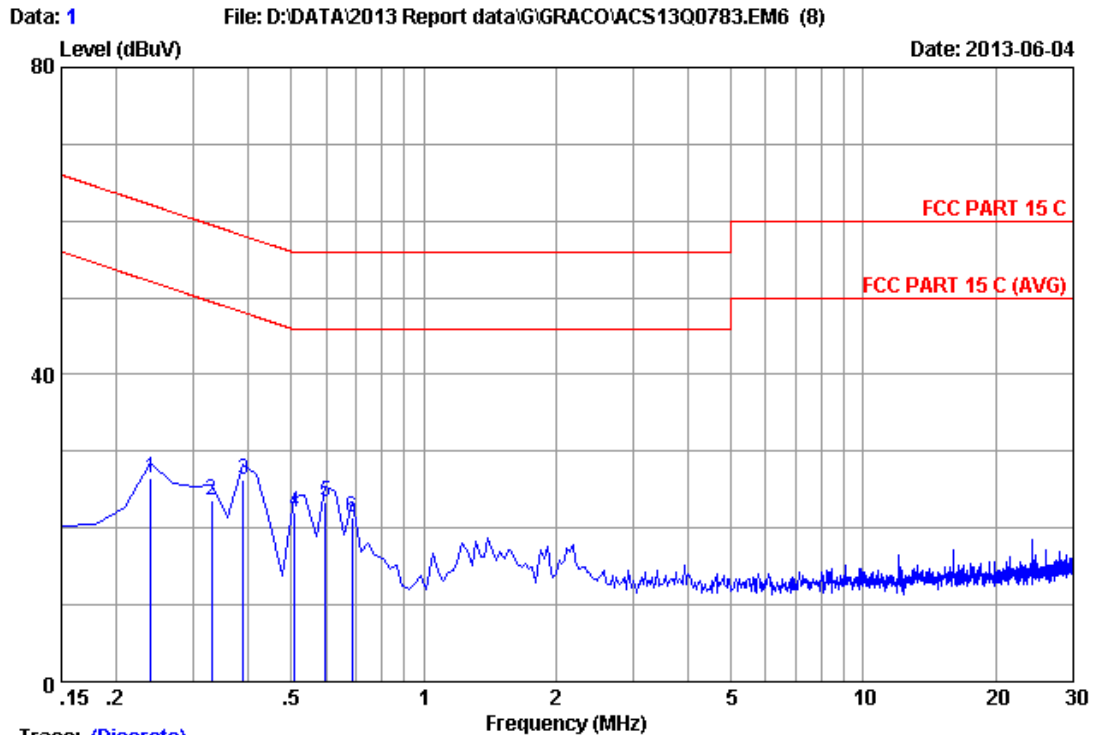


Trace: (Discrete)

Site no :1#conduction Data No :2  
 Dis./Ant. :\*\* 2012 ESH2-Z5 LINE  
 Limit :FCC PART 15 C  
 Env./Ins. :29.5°C/55% Engineer :Leo\_Li  
 EUT :Baby monitor  
 Power Rating :DC 4.5V From Adapter Input AC 120V/60Hz  
 Test Mode :Tx Mode  
 M/N:PD238111

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.29925	0.19	0.01	22.53	22.73	60.26	37.53	QP
2	0.38880	0.19	0.02	21.77	21.98	58.09	36.11	QP
3	0.50820	0.19	0.02	20.79	21.00	56.00	35.00	QP
4	0.56790	0.19	0.02	20.80	21.01	56.00	34.99	QP
5	0.74700	0.20	0.03	18.99	19.22	56.00	36.78	QP
6	2.120	0.24	0.04	19.37	19.65	56.00	36.35	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.  
 2.If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



Trace: (Discrete)

Site no :1#conduction Data No :1  
 Dis./Ant. :\*\* 2012 ESH2-Z5 NEUTRAL  
 Limit :FCC PART 15 C  
 Env./Ins. :29.5°C/55% Engineer :Leo\_Li  
 EUT :Baby monitor  
 Power Rating :DC 4.5V From Adapter Input AC 120V/60Hz  
 Test Mode :Tx Mode  
 M/N:PD238111

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.23955	0.21	0.15	26.11	26.47	62.11	35.64	QP
2	0.32910	0.22	0.15	23.32	23.69	59.47	35.78	QP
3	0.38880	0.22	0.15	25.95	26.32	58.09	31.77	QP
4	0.50820	0.23	0.15	21.79	22.17	56.00	33.83	QP
5	0.59775	0.24	0.15	22.91	23.30	56.00	32.70	QP
6	0.68730	0.24	0.15	20.95	21.34	56.00	34.66	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.  
 2.If the average limit is met when using a quasi-peak detector.  
 the EUT shall be deemed to meet both limits and measurement  
 with average detector is unnecessary.

## 4. RADIATED EMISSION TEST

### 4.1. Test Equipment

Frequency rang: 30~1000MHz

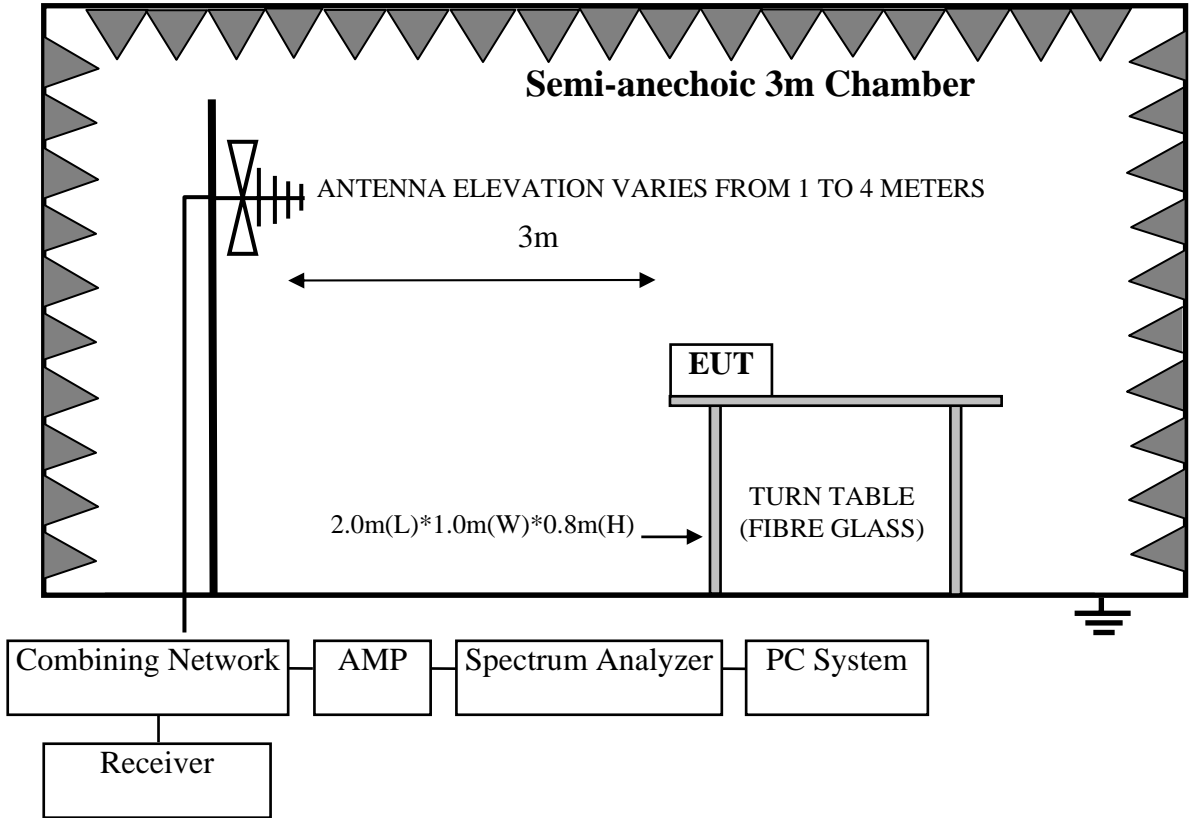
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	3#Chamber	AUDIX	N/A	N/A	Nov.24,12	1 Year
2	EMI Spectrum	Agilent	E4407B	MY41440292	May.08, 13	1 Year
3	Test Receiver	Rohde & Schwarz	ESVS10	834468/011	May.08, 13	1 Year
4	Amplifier	HP	8447D	2648A04738	May.08, 13	1 Year
5	Bilog Antenna	Schaffner	CBL6111C	2598	Mar.14,13	1 Year
6	RF Cable	MIYAZAKI	CFD400-NL	3# Chamber No.1	May.08, 13	1 Year
7	Coaxial Switch	Anritsu	MP59B	M74389	May.08, 13	1 Year

Frequency rang: above 1000MHz

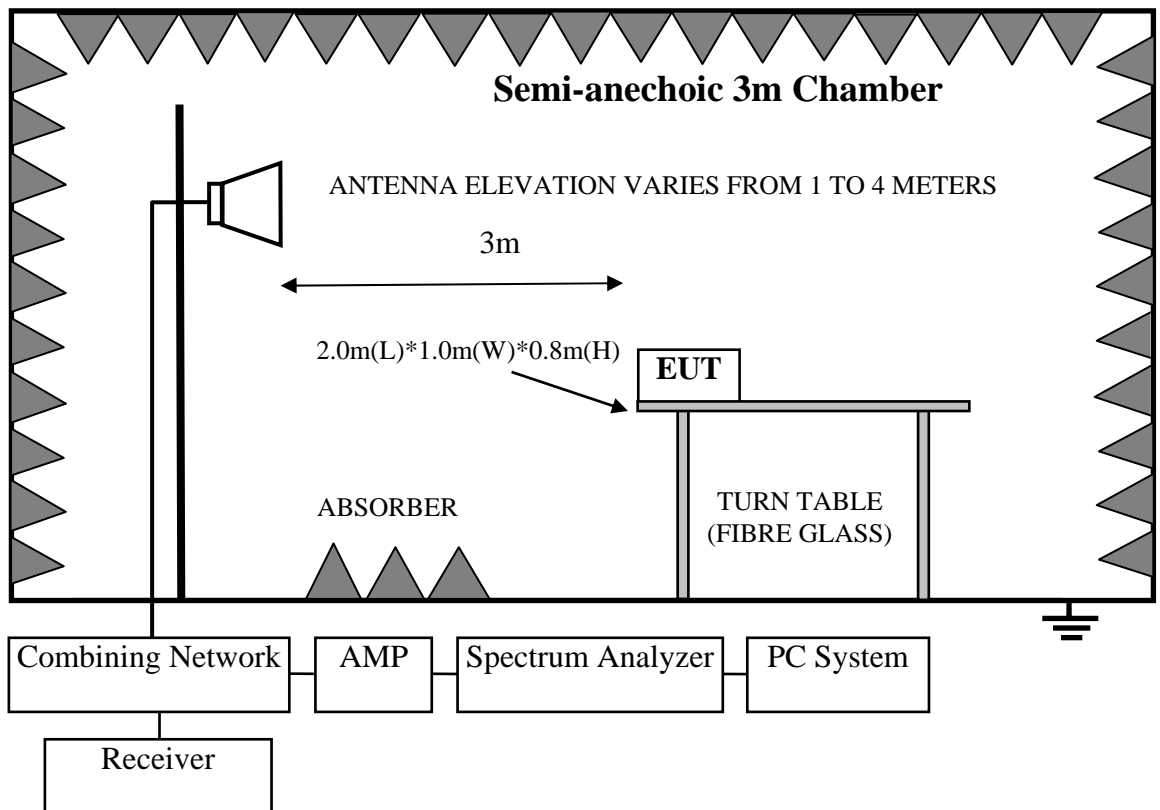
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum Analyzer	Agilent	E4407B	MY41440292	May.08, 13	1 Year
2	Horn Antenna	EMCO	3115	9607-4877	Aug.28, 13	1 Year
3	Amplifier	Agilent	8449B	3008A00863	May.08, 13	1 Year
4	RF Cable	Hubersuhner	SUCOFLEX106	77980/6	May.08, 13	1 Year
5	RF Cable	Hubersuhner	SUCOFLEX106	77977/6	May.08, 13	1 Year

### 4.2. Block Diagram of Test Setup

For frequency range 30MHz-1000MHz



For frequency range above 1000MHz



### 4.3. Radiated Emission Limit Standard: FCC 15.209 and 15.249

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		μV/m	dB(μV)/m
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000MHz	3	74.0 dB(μV)/m (Peak) 54.0 dB(μV)/m (Average)	
Field Strength of fundamental emissions for 902MHz-928MHz	3	114.0 dB(μV)/m (Peak) 94.0 dB(μV)/m (Average)	

- Remark :
- (1) Emission level dBμV = 20 log Emission level μV/m
  - (2) The smaller limit shall apply at the cross point between two frequency bands.
  - (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.
  - (4) The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

### 4.4.EUT Configuration on Test

The following equipment are installed on Radiated Emission Test to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

### 4.5.Operating Condition of EUT

- 4.5.1. Setup the EUT and simulator as shown as Section 5.2.
- 4.5.2. Turned on the power of all equipment.
- 4.5.3. Let EUT work in Tx mode.

### 4.6.Test Procedure

The EUT and its simulators are placed on a turn table, which is 0.8 meter high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna is set on Test. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.10-2009 on radiated emission Test.

The bandwidth of the EMI test receiver (R&S ESVS10) is set at 120kHz for frequency range from 30MHz to 1000 MHz.



The bandwidth of the Spectrum's RBW is set at 1MHz and VBW is set at 3MHz for peak emissions measurement above 1GHz.

This device is pulse modulated, a duty cycle factor was used to calculate average level based measured peak level.

The frequency range from 30MHz to 10th harmonic (10GHz) are checked. The EUT was tested in X.Y.Z Position and found the worse case position then reported in the Report.

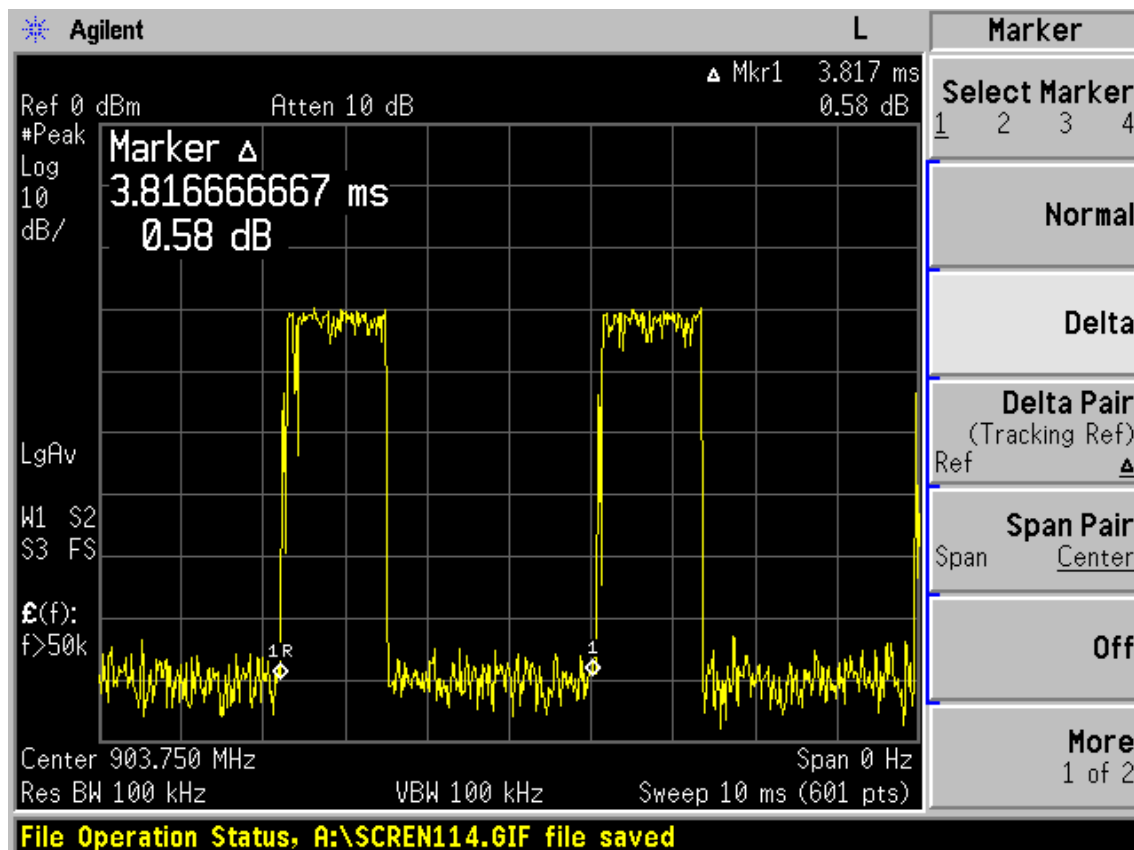
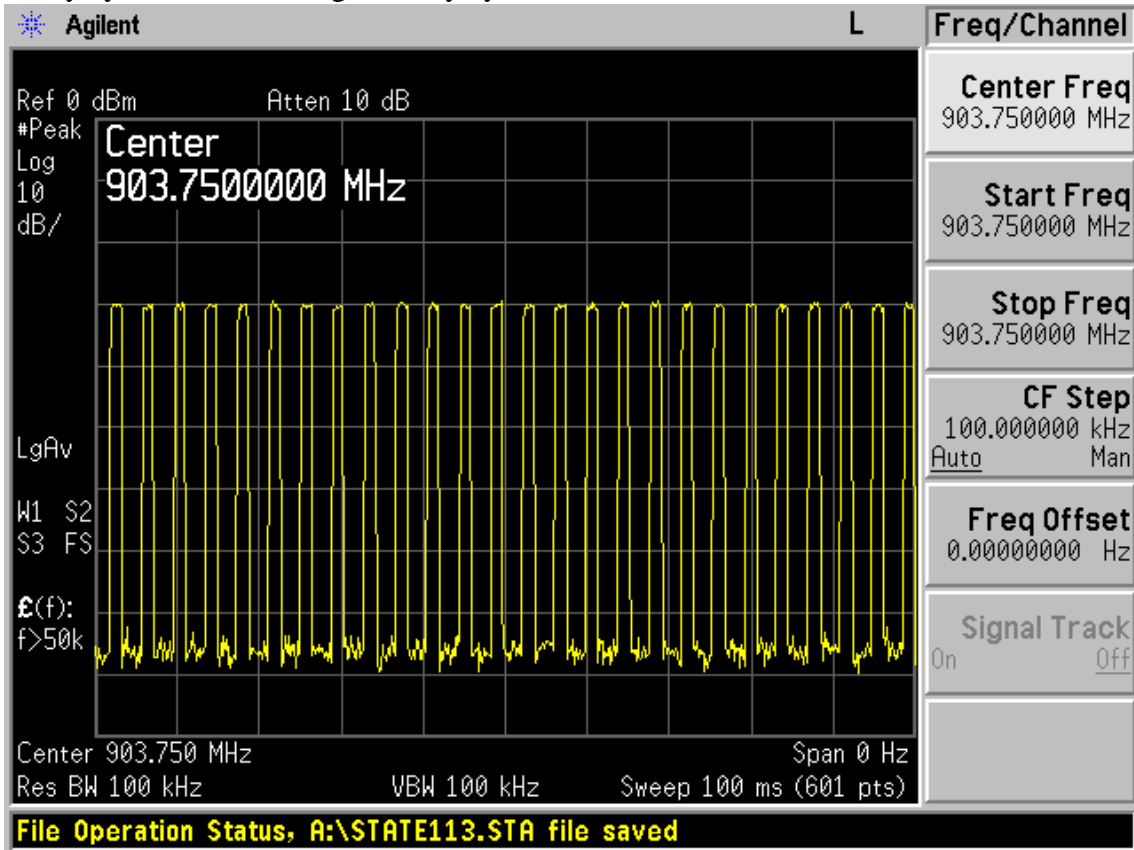
#### 4.7.Radiated Emission Test Results

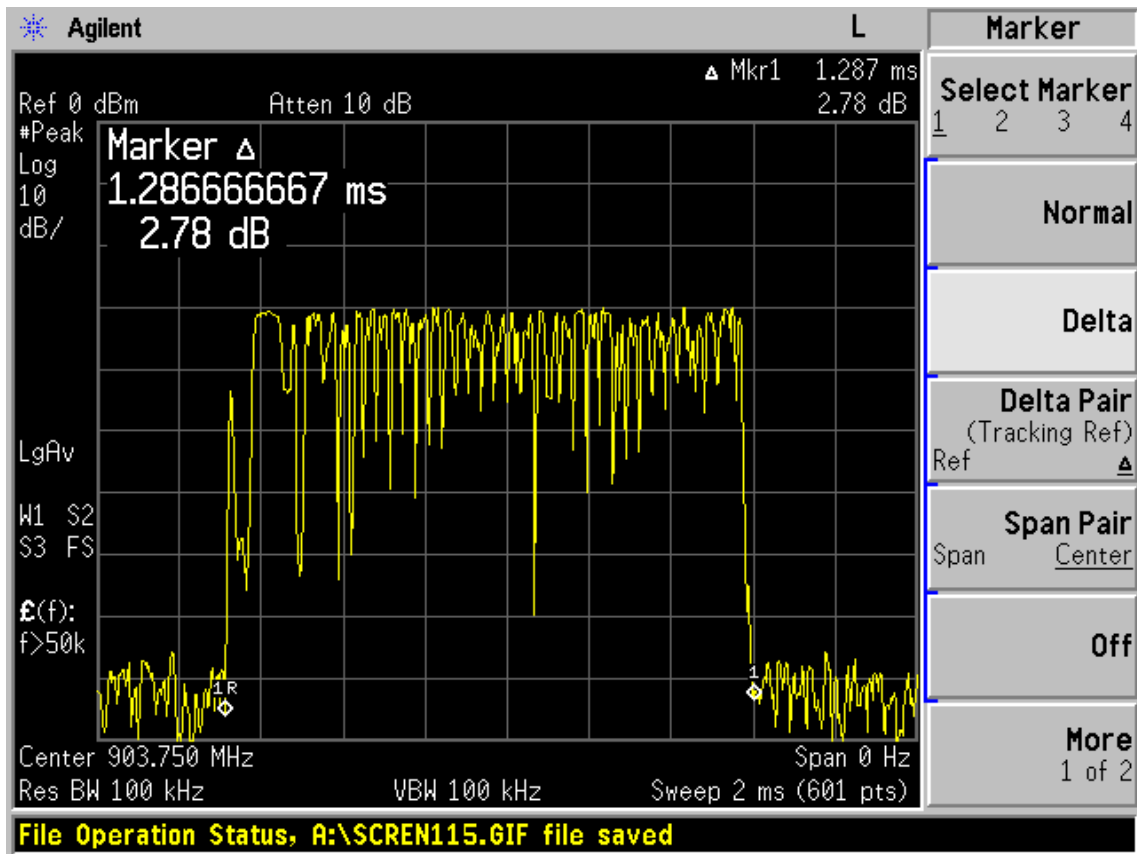
**PASS.**

All the emissions from 30MHz to 10GHz were comply with the 15.209 Limit.

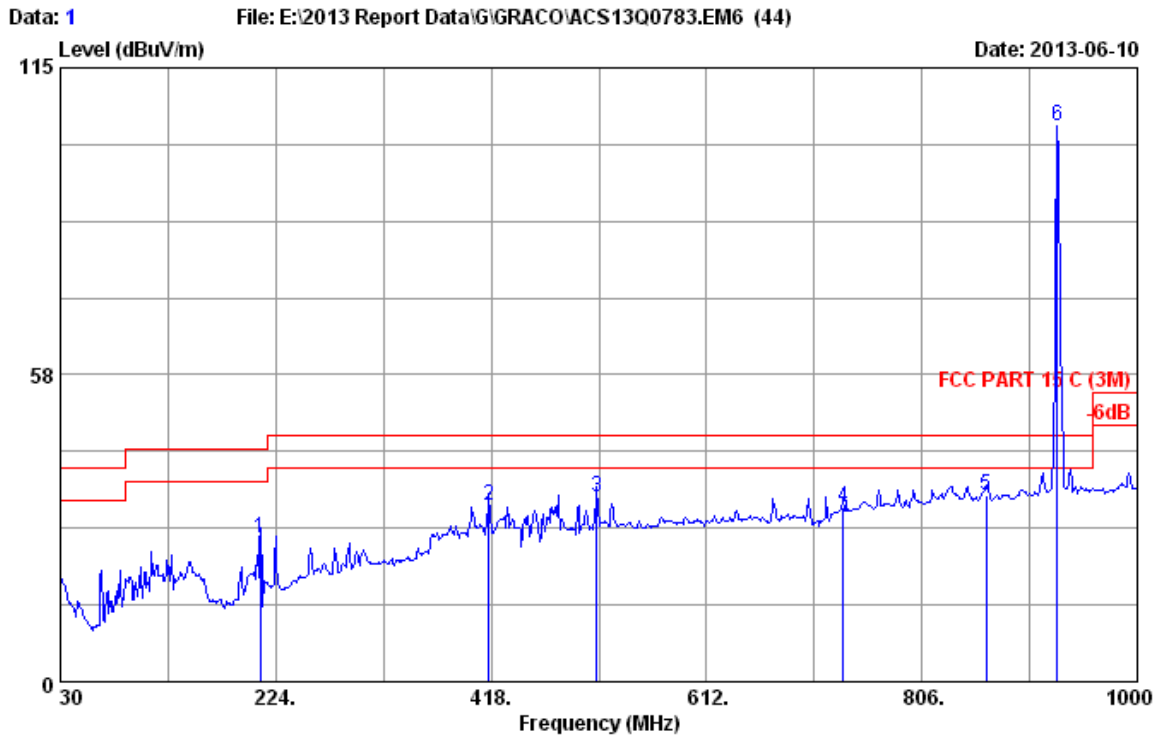
Note: The duty cycle factor for calculate average level is 9.4dB, and average limit is 20dB below peak limit, so if peak measured level comply with peak limit, the average level was deemed to comply with average limit.

Duty cycle:  $1.287\text{ms}/3.817\text{ms} * 100\% = 33.72\%$   
 Duty cycle factor =  $20\log (1/\text{duty cycle}) = 9.4$





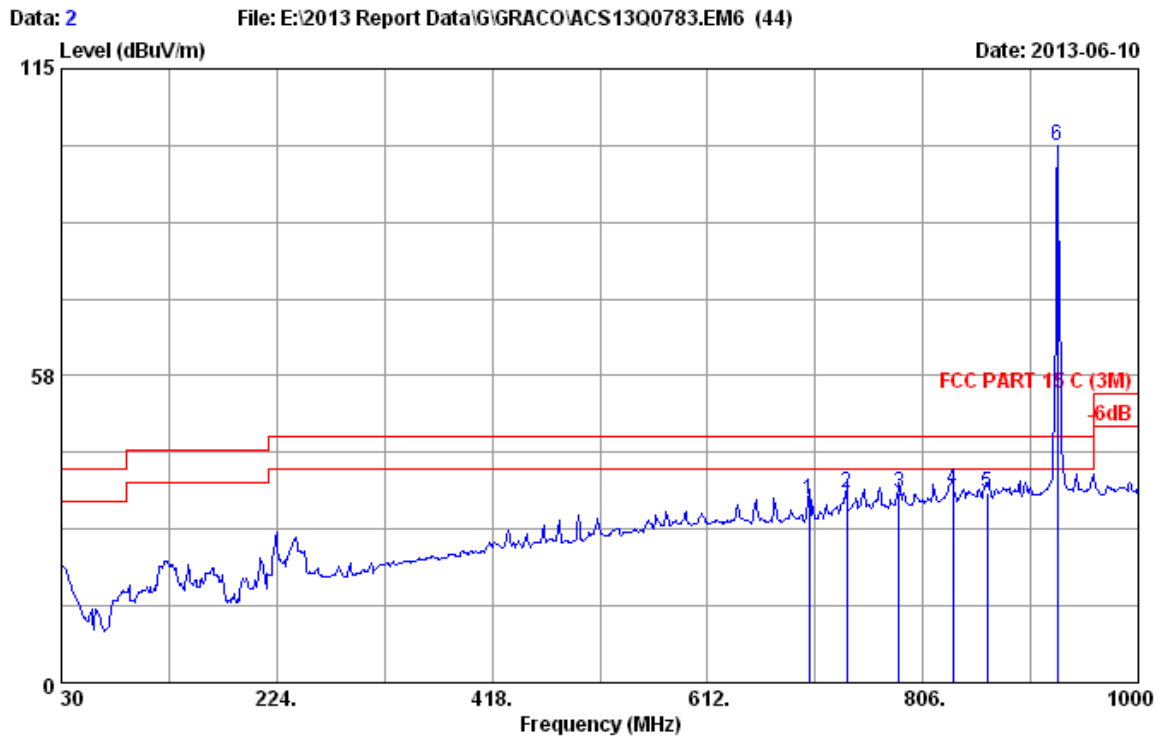
**Frequency: 30MHz~1GHz**



Site no. : 3m Chamber Data no. : 1  
 Dis. / Ant. : 3m 2013 CBL6111C 2598 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15 C (3M)  
 Env. / Ins. : 24°C/65% Engineer : Leo\_Li  
 EUT : Baby monitor  
 Power rating : DC 4.5V From Adapter Input AC 120V/60Hz  
 Test Mode : Tx Mode 927MHz  
 PD238111

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	210.420	10.09	1.83	14.84	26.76	43.50	16.74	QP
2	416.060	16.86	2.51	13.76	33.13	46.00	12.87	QP
3	513.060	18.46	2.79	13.27	34.52	46.00	11.48	QP
4	735.190	21.80	3.42	7.52	32.74	46.00	13.26	QP
5	864.200	22.80	3.81	8.37	34.98	46.00	11.02	QP
6	928.220	23.53	4.01	76.43	103.97	46.00	-57.97	QP

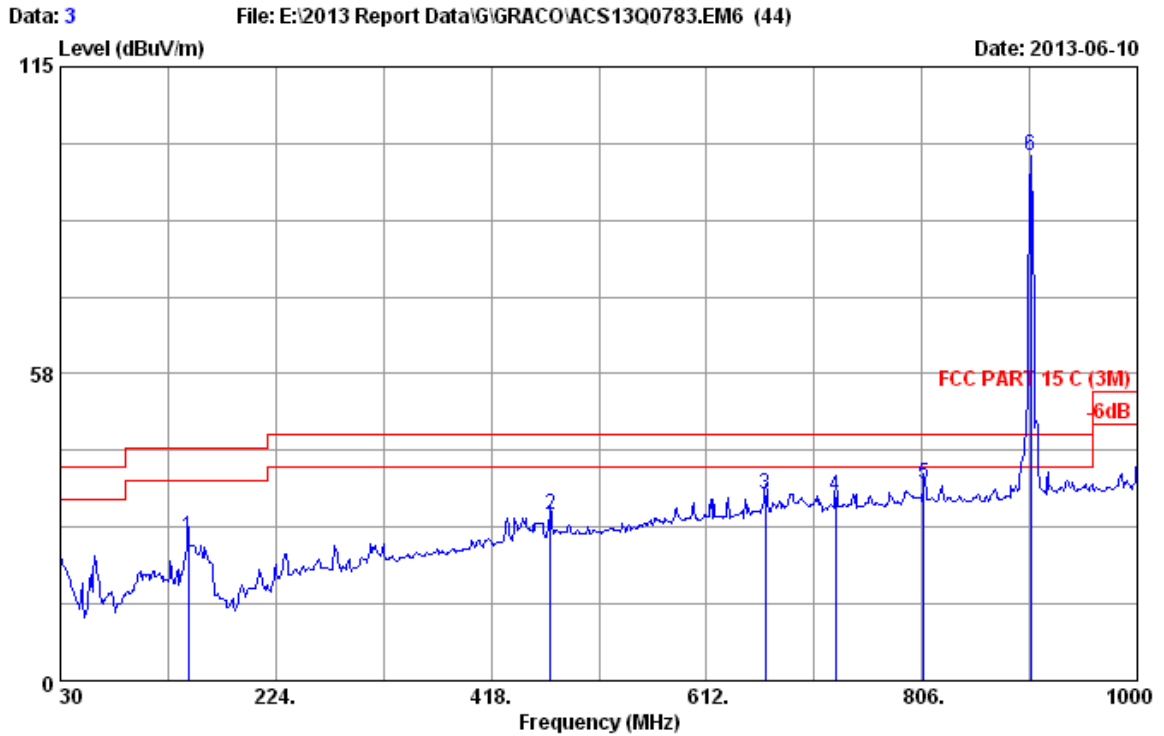
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 2  
 Dis. / Ant. : 3m 2013 CBL6111C 2598 Ant. pol. : VERTICAL  
 Limit : FCC PART 15 C (3M)  
 Env. / Ins. : 24°C/65% Engineer : Leo\_Li  
 EUT : Baby monitor  
 Power rating : DC 4.5V From Adapter Input AC 120V/60Hz  
 Test Mode : Tx Mode 927MHz  
 PD238111

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	703.180	20.90	3.33	10.12	34.35	46.00	11.65	QP
2	737.130	21.84	3.43	10.23	35.50	46.00	10.50	QP
3	784.660	22.00	3.57	10.02	35.59	46.00	10.41	QP
4	833.160	22.76	3.71	9.71	36.18	46.00	9.82	QP
5	864.200	22.80	3.81	8.93	35.54	46.00	10.46	QP
6	927.250	23.49	4.01	72.95	100.45	46.00	-54.45	QP

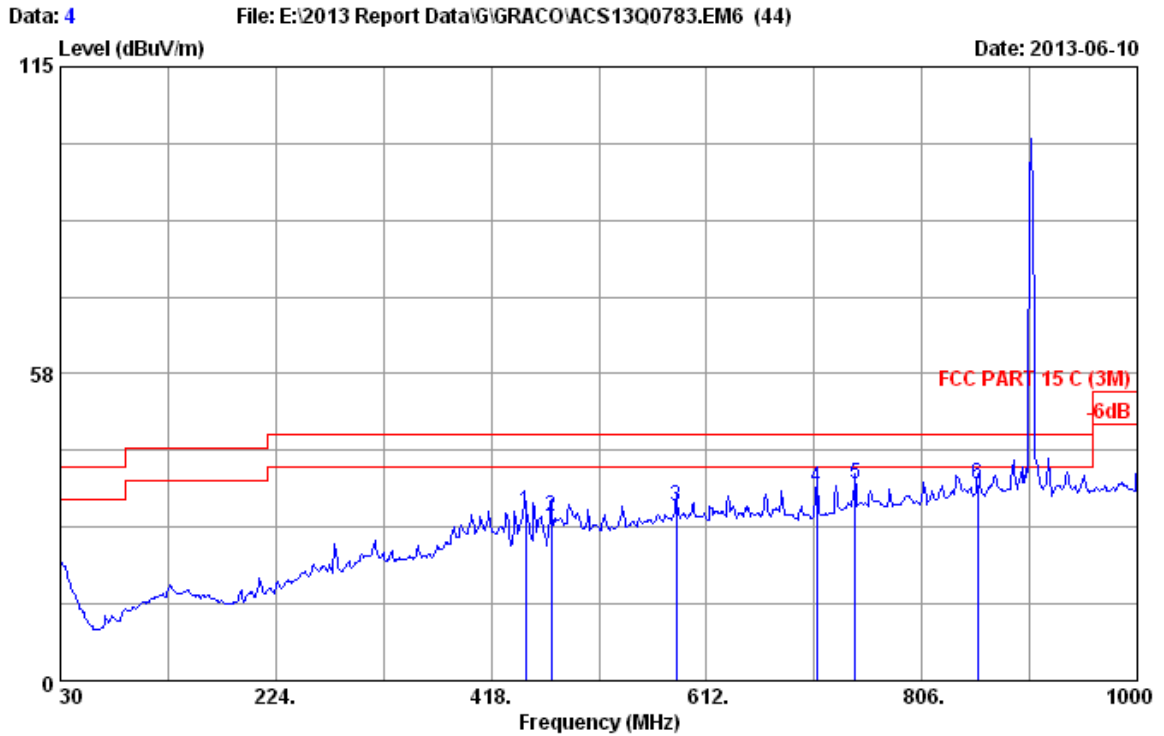
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 3  
 Dis. / Ant. : 3m 2013 CBL6111C 2598 Ant. pol. : VERTICAL  
 Limit : FCC PART 15 C (3M)  
 Env. / Ins. : 24°C/65% Engineer : Leo\_Li  
 EUT : Baby monitor  
 Power rating : DC 4.5V From Adapter Input AC 120V/60Hz  
 Test Mode : Tx Mode 903.75MHz  
 PD238111

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	145.430	12.10	1.58	13.08	26.76	43.50	16.74	QP
2	471.350	17.53	2.67	10.76	30.96	46.00	15.04	QP
3	665.350	20.31	3.22	11.37	34.90	46.00	11.10	QP
4	728.400	21.54	3.40	9.77	34.71	46.00	11.29	QP
5	807.940	22.10	3.64	11.01	36.75	46.00	9.25	QP
6	903.970	22.88	3.94	71.48	98.30	46.00	-52.30	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

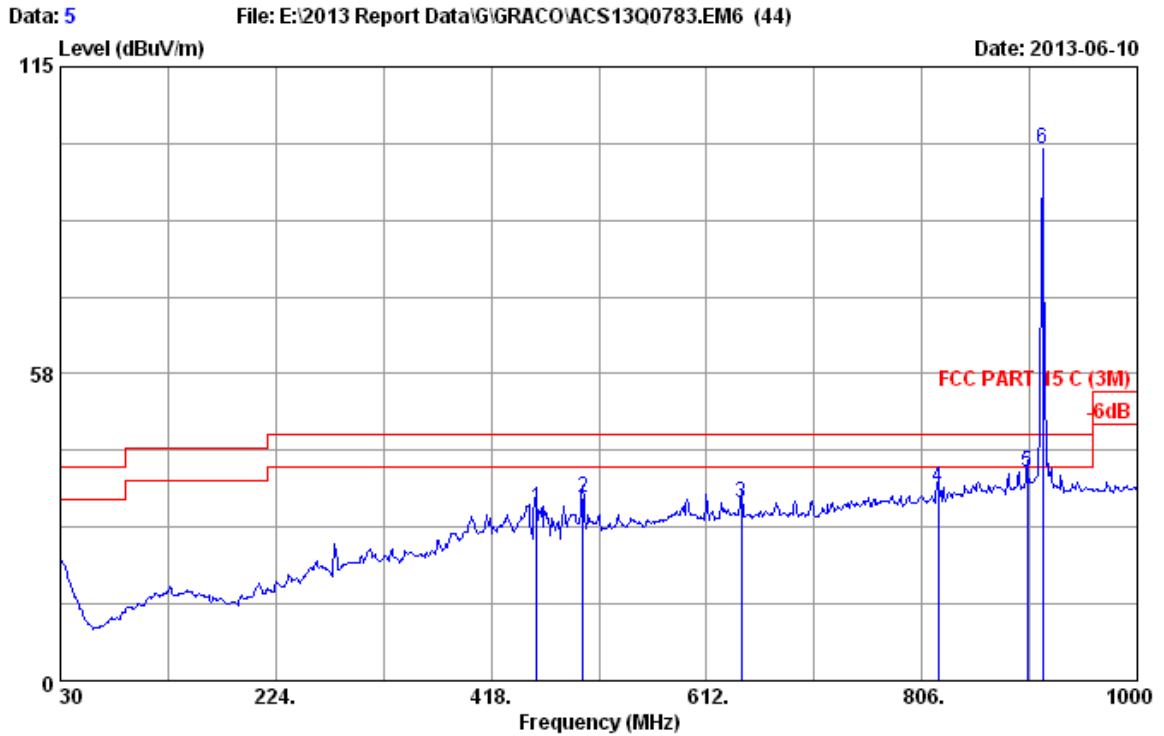


Site no. : 3m Chamber Data no. : 4  
 Dis. / Ant. : 3m 2013 CBL6111C 2598 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15 C (3M)  
 Env. / Ins. : 24°C/65% Engineer : Leo\_Li  
 EUT : Baby monitor  
 Power rating : DC 4.5V From Adapter Input AC 120V/60Hz  
 Test Mode : Tx Mode 903.75MHz  
 PD238111

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	449.040	17.08	2.60	12.02	31.70	46.00	14.30	QP
2	472.320	17.55	2.67	10.61	30.83	46.00	15.17	QP
3	584.840	19.50	2.99	10.32	32.81	46.00	13.19	QP
4	710.940	20.92	3.35	11.78	36.05	46.00	9.95	QP
5	745.860	22.00	3.45	11.33	36.78	46.00	9.22	QP
6	856.440	22.87	3.79	10.19	36.85	46.00	9.15	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

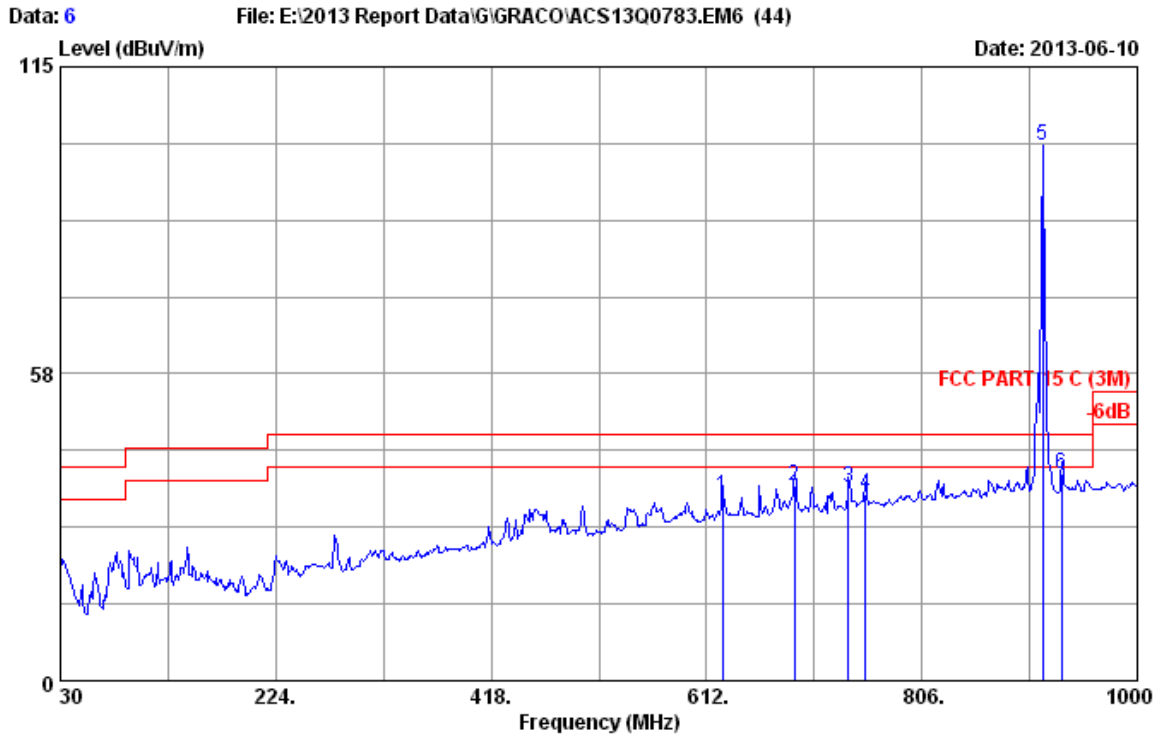




Site no. : 3m Chamber Data no. : 5  
 Dis. / Ant. : 3m 2013 CBL6111C 2598 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15 C (3M)  
 Env. / Ins. : 24°C/65% Engineer : Leo\_Li  
 EUT : Baby monitor  
 Power rating : DC 4.5V From Adapter Input AC 120V/60Hz  
 Test Mode : Tx Mode 915MHz  
 PD238111

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	458.740	17.27	2.63	12.60	32.50	46.00	13.50	QP
2	500.450	18.31	2.75	13.35	34.41	46.00	11.59	QP
3	643.040	20.30	3.16	10.01	33.47	46.00	12.53	QP
4	820.550	22.41	3.67	10.06	36.14	46.00	9.86	QP
5	901.060	22.82	3.93	12.42	39.17	46.00	6.83	QP
6	914.640	23.19	3.97	72.48	99.64	46.00	-53.64	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

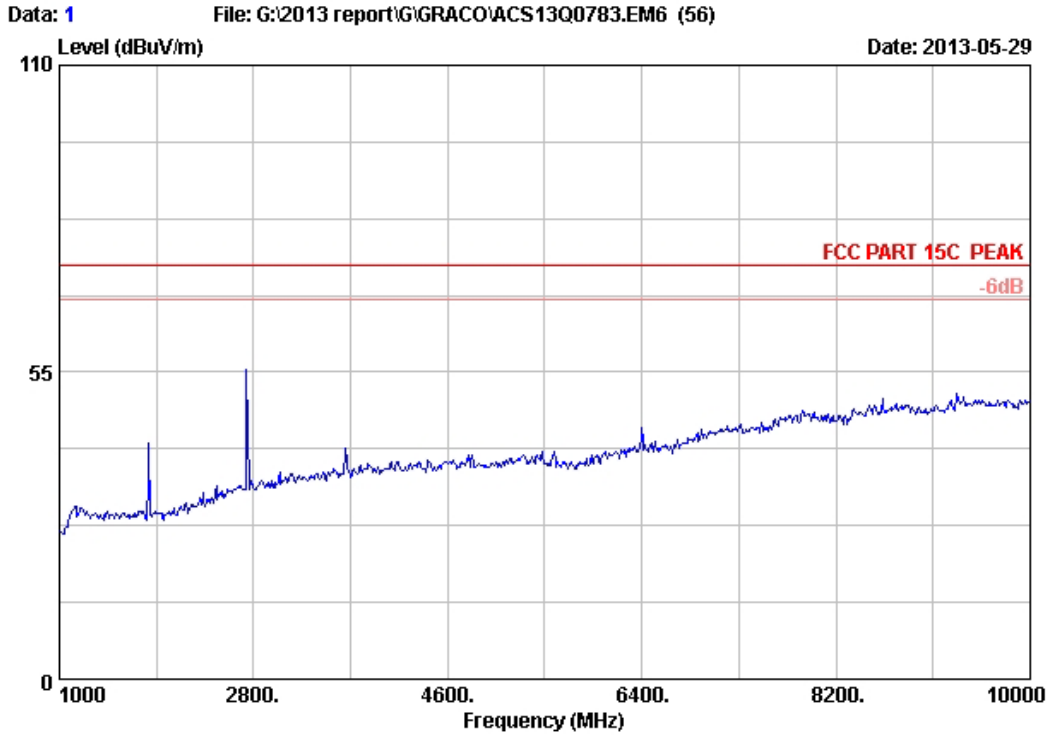


Site no. : 3m Chamber Data no. : 6  
 Dis. / Ant. : 3m 2013 CBL6111C 2598 Ant. pol. : VERTICAL  
 Limit : FCC PART 15 C (3M)  
 Env. / Ins. : 24°C/65% Engineer : Leo\_Li  
 EUT : Baby monitor  
 Power rating : DC 4.5V From Adapter Input AC 120V/60Hz  
 Test Mode : Tx Mode 915MHz  
 PD238111

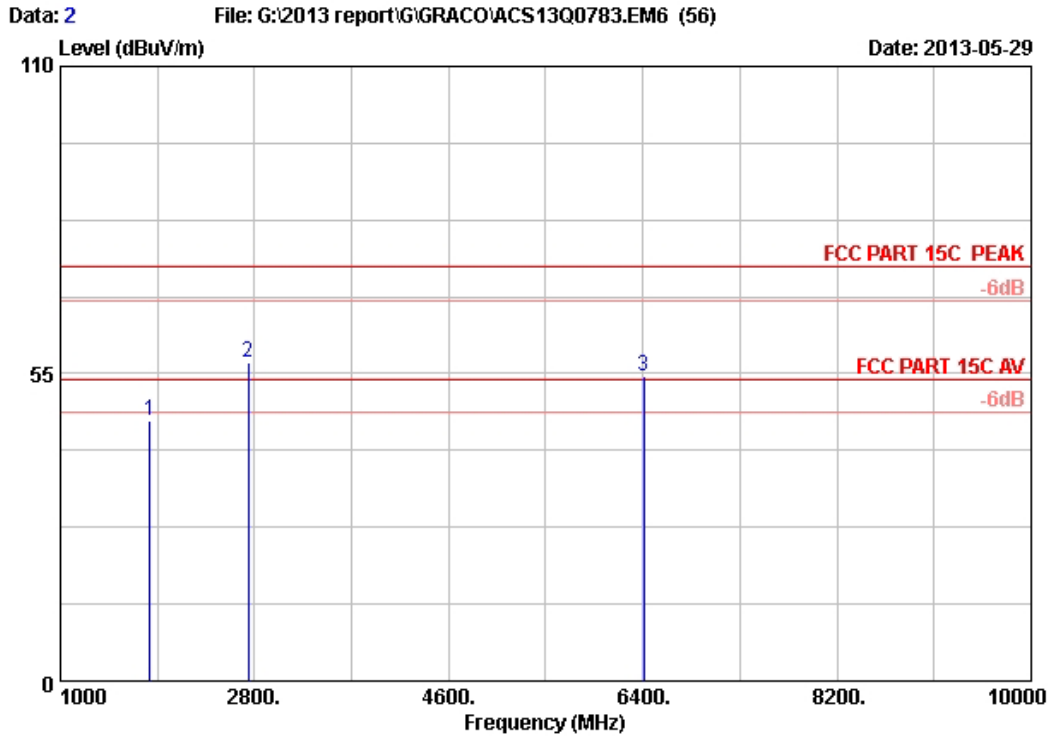
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	626.550	20.30	3.11	11.08	34.49	46.00	11.51	QP
2	691.540	20.90	3.30	12.41	36.61	46.00	9.39	QP
3	740.040	21.90	3.44	10.80	36.14	46.00	9.86	QP
4	755.560	22.01	3.48	9.57	35.06	46.00	10.94	QP
5	914.640	23.19	3.97	73.01	100.17	46.00	-54.17	QP
6	932.100	23.68	4.03	11.14	38.85	46.00	7.15	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

Frequency: 1GHz~10GHz



Site no. : 3m Chamber Data no. : 1  
Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL  
Limit : FCC PART 15C PEAK  
Env. / Ins. : 23°C/54% Engineer : Leo-Li  
EUT : Baby Monitor  
Power supply : DC 4.5V From Adapter Input AC 120V/60Hz  
Test mode : Tx Mode 915MHz  
M/N : PD238111  
:



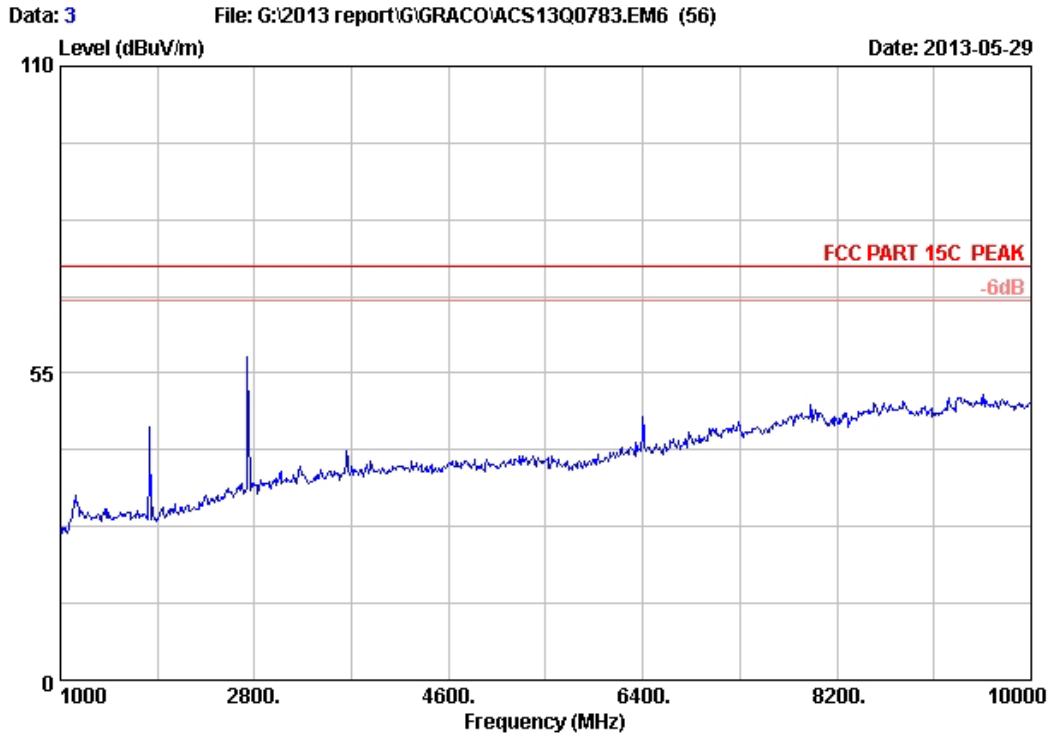
Site no. : 3m Chamber Data no. : 2  
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Leo-Li  
 EUT : Baby Monitor  
 Power supply : DC 4.5V From Adapter Input AC 120V/60Hz  
 Test mode : Tx Mode 915MHz  
 M/N : PD238111

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1830.000	24.51	5.05	36.09	53.21	46.68	74.00	27.32	Peak
2	2745.000	28.28	6.61	35.94	58.16	57.11	74.00	16.89	Peak
3	6405.000	34.00	10.11	35.20	45.68	54.59	74.00	19.41	Peak

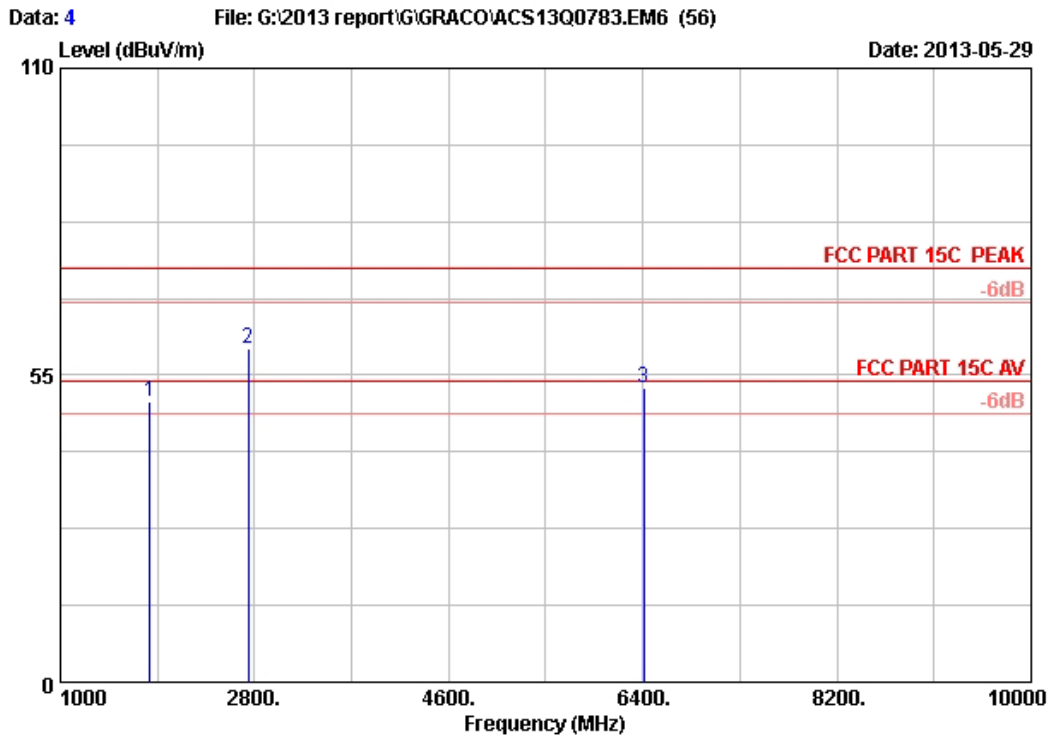
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Frequency (MHz)	Peak level (dBuV/m)	Duty cycle factor	AV level (dBuV/m)	Limit(dBuV/m)	Conclusion
2745.000	57.11	3.85	47.71	54	Pass
6405.000	54.59	3.85	45.19	54	Pass



Site no. : 3m Chamber Data no. : 3  
Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL  
Limit : FCC PART 15C PEAK  
Env. / Ins. : 23°C/54% Engineer : Leo-Li  
EUT : Baby Monitor  
Power supply : DC 4.5V From Adapter Input AC 120V/60Hz  
Test mode : Tx Mode 915MHz  
M/N : PD238111  
:



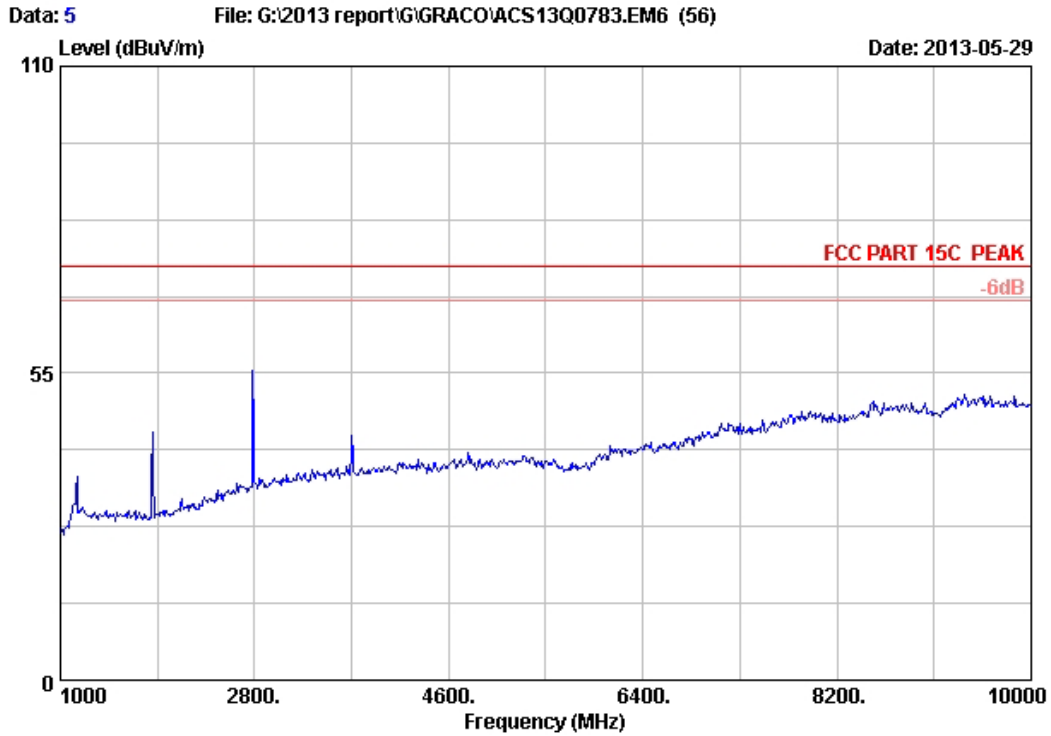
Site no. : 3m Chamber Data no. : 4  
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Leo-Li  
 EUT : Baby Monitor  
 Power supply : DC 4.5V From Adapter Input AC 120V/60Hz  
 Test mode : Tx Mode 915MHz  
 M/N : PD238111  
 :

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1830.000	24.51	5.05	36.09	56.76	50.23	74.00	23.77	Peak
2	2745.000	28.28	6.61	35.94	60.74	59.69	74.00	14.31	Peak
3	6405.000	34.00	10.11	35.20	43.66	52.57	74.00	21.43	Peak

Remarks:

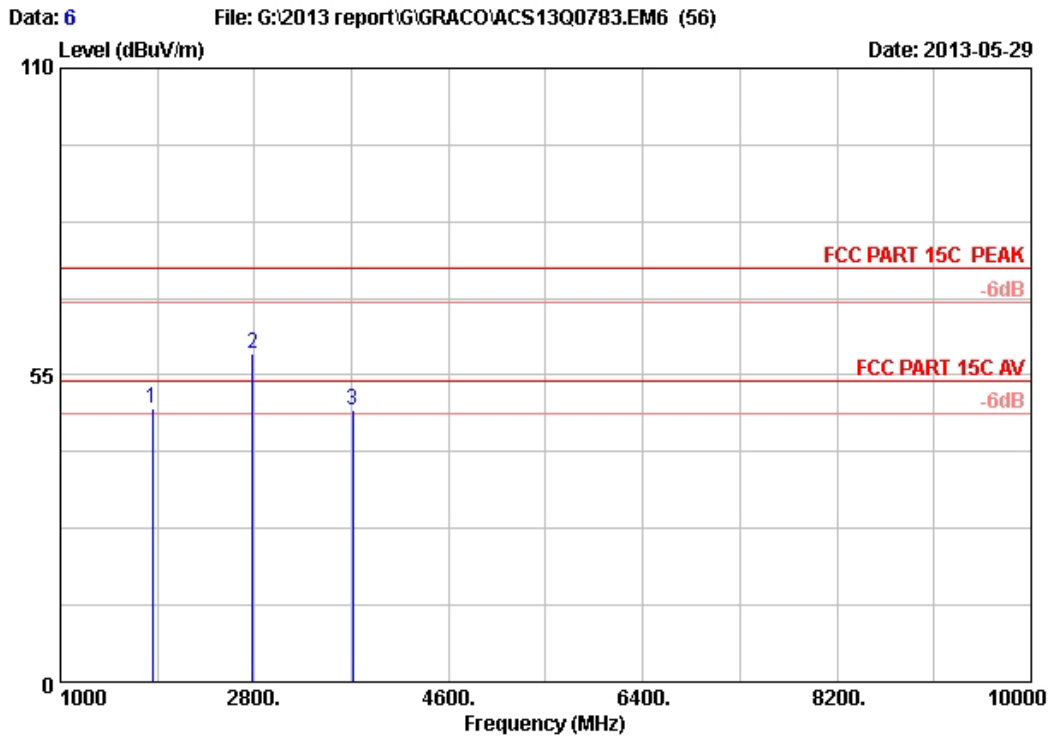
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Frequency (MHz)	Peak level (dBuV/m)	Duty cycle factor	AV level (dBuV/m)	Limit(dBuV/m)	Conclusion
2745.000	59.69	3.85	50.29	54	Pass



Site no. : 3m Chamber Data no. : 5  
Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL  
Limit : FCC PART 15C PEAK  
Env. / Ins. : 23°C/54% Engineer : Leo-Li  
EUT : Baby Monitor  
Power supply : DC 4.5V From Adapter Input AC 120V/60Hz  
Test mode : Tx Mode 927MHz  
M/N : PD238111  
:





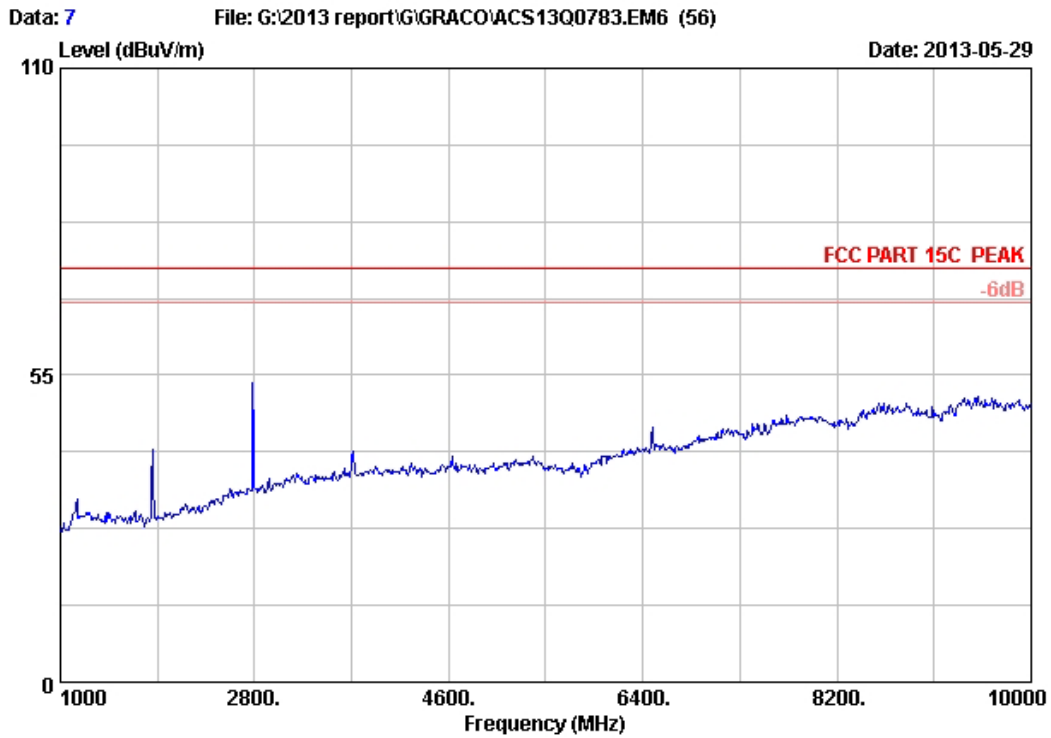
Site no. : 3m Chamber Data no. : 6  
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Leo-Li  
 EUT : Baby Monitor  
 Power supply : DC 4.5V From Adapter Input AC 120V/60Hz  
 Test mode : Tx Mode 927MHz  
 M/N : PD238111  
 :

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1854.000	24.46	5.09	36.06	55.52	49.01	74.00	24.99	Peak
2	2781.000	28.41	6.67	35.94	59.81	58.95	74.00	15.05	Peak
3	3708.000	31.02	7.68	35.99	46.16	48.87	74.00	25.13	Peak

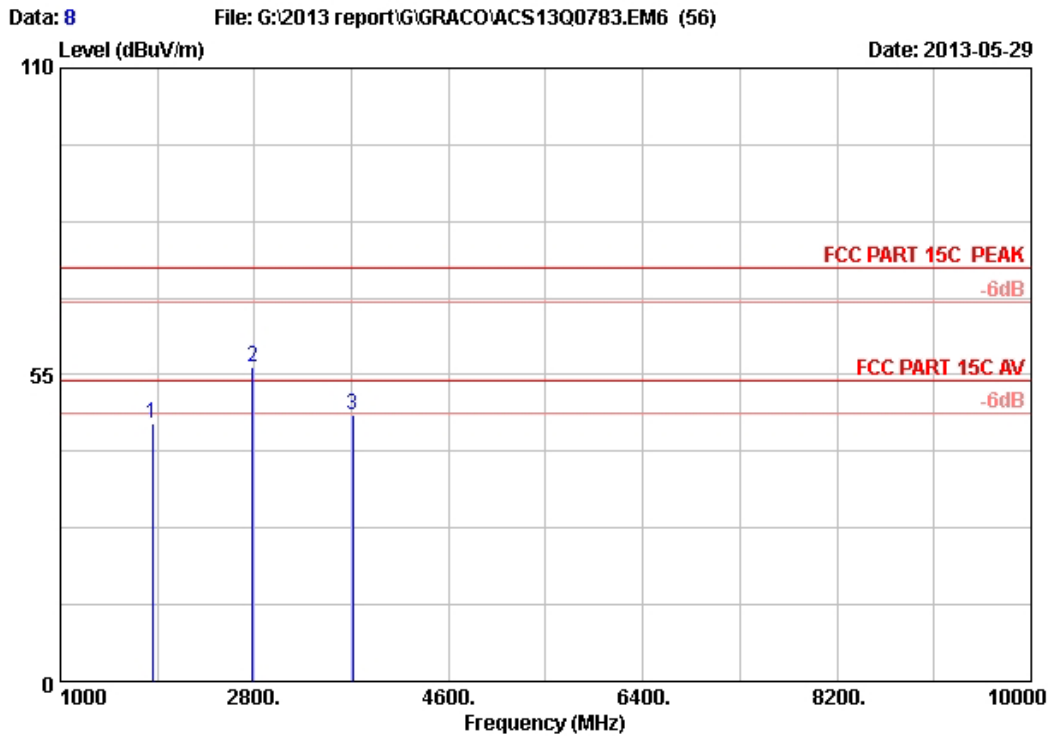
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Frequency (MHz)	Peak level (dBuV/m)	Duty cycle factor	AV level (dBuV/m)	Limit(dBuV/m)	Conclusion
2781.000	58.95	3.85	49.55	54	Pass



Site no. : 3m Chamber Data no. : 7  
Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL  
Limit : FCC PART 15C PEAK  
Env. / Ins. : 23°C/54% Engineer : Leo-Li  
EUT : Baby Monitor  
Power supply : DC 4.5V From Adapter Input AC 120V/60Hz  
Test mode : Tx Mode 927MHz  
M/N : PD238111  
:



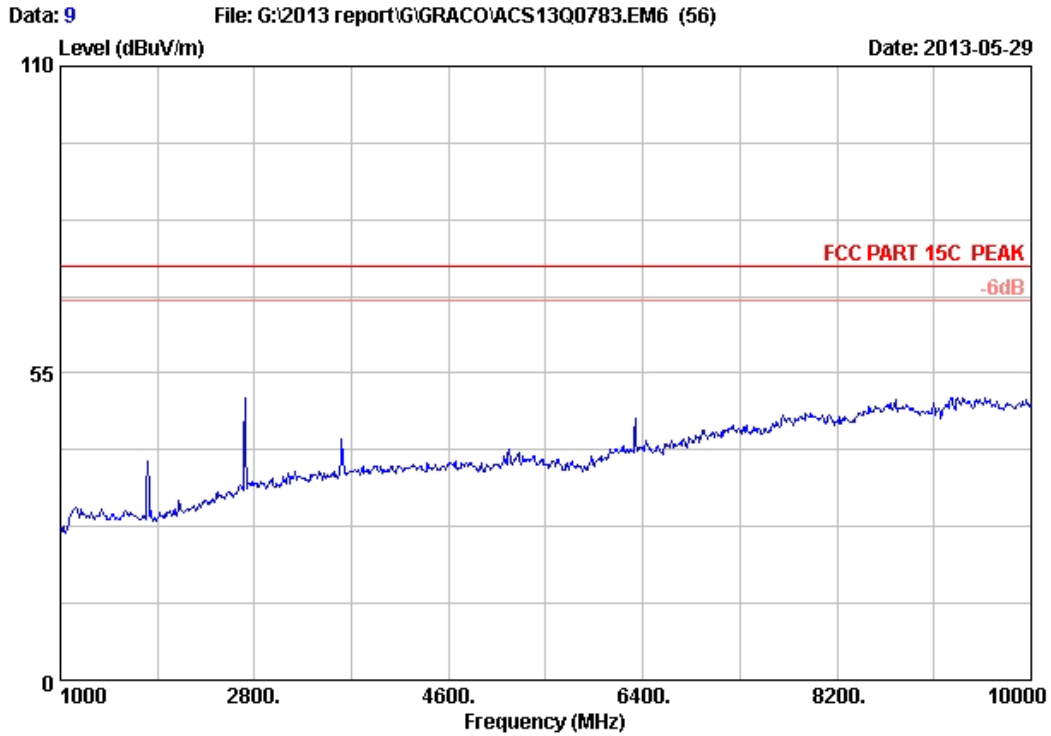
Site no. : 3m Chamber Data no. : 8  
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Leo-Li  
 EUT : Baby Monitor  
 Power supply : DC 4.5V From Adapter Input AC 120V/60Hz  
 Test mode : Tx Mode 927MHz  
 M/N : PD238111  
 :

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1854.000	24.46	5.09	36.06	52.73	46.22	74.00	27.78	Peak
2	2781.000	28.41	6.67	35.94	57.34	56.48	74.00	17.52	Peak
3	3708.000	31.02	7.68	35.99	45.20	47.91	74.00	26.09	Peak

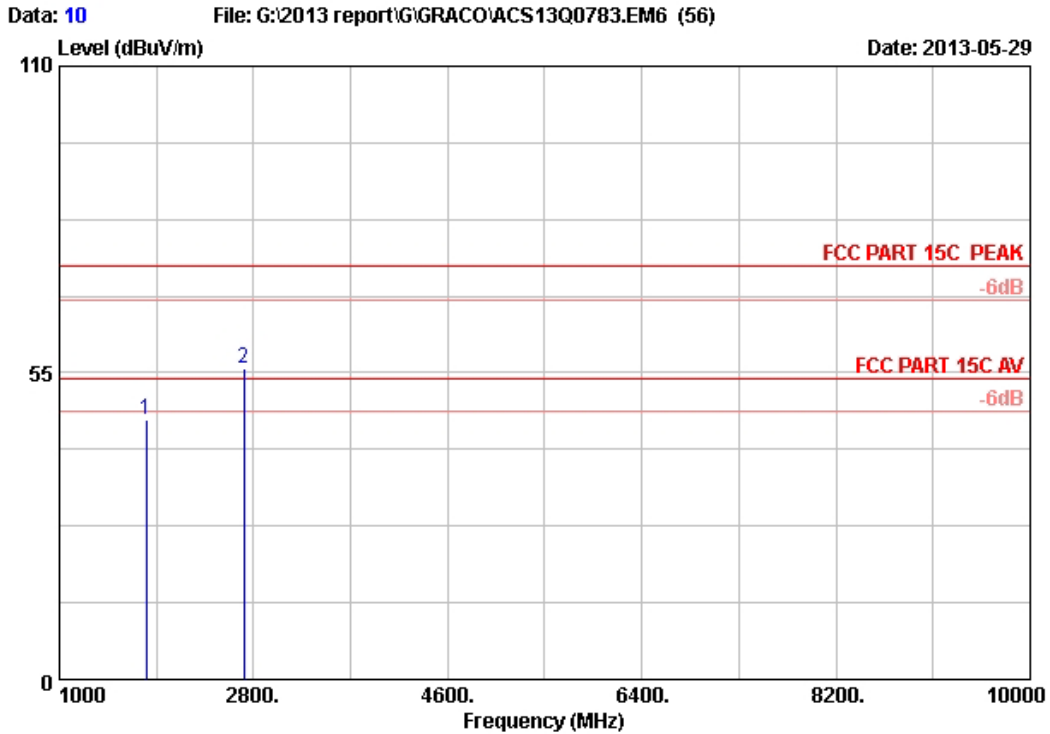
Remarks:

- Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
- The emission levels that are 20dB below the official limit are not reported.

Frequency (MHz)	Peak level (dBuV/m)	Duty cycle factor	AV level (dBuV/m)	Limit(dBuV/m)	Conclusion
2781.000	56.48	3.85	47.4	54	Pass



Site no. : 3m Chamber Data no. : 9  
Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL  
Limit : FCC PART 15C PEAK  
Env. / Ins. : 23°C/54% Engineer : Leo-Li  
EUT : Baby Monitor  
Power supply : DC 4.5V From Adapter Input AC 120V/60Hz  
Test mode : Tx Mode 903.75MHz  
M/N : PD238111  
:



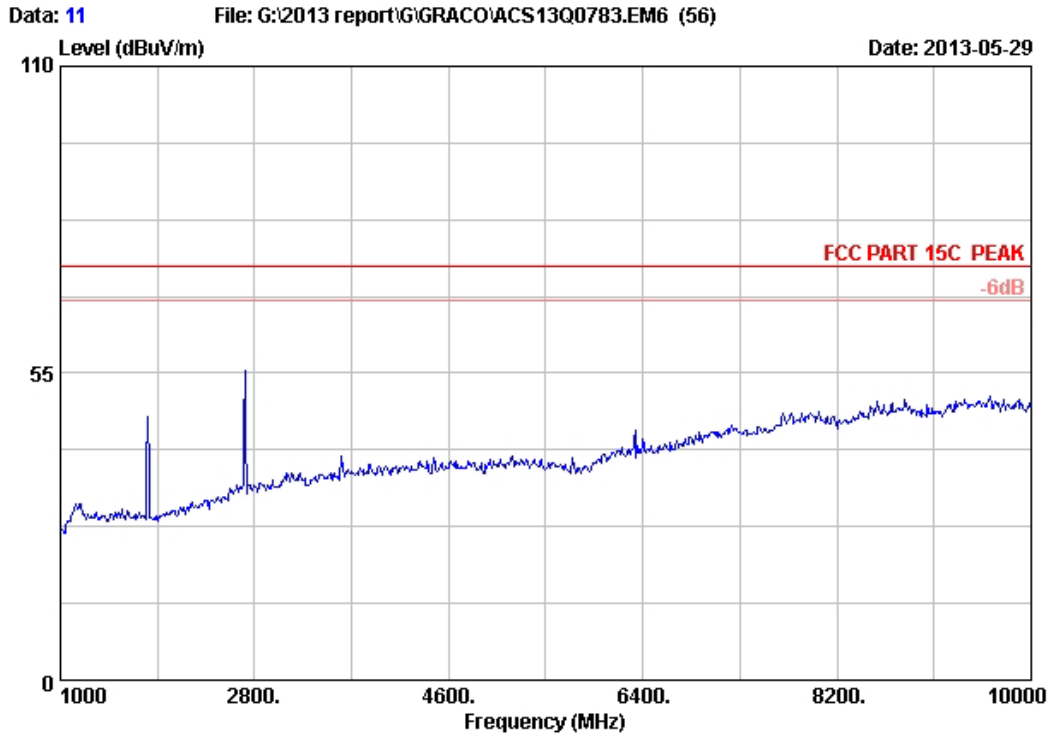
Site no. : 3m Chamber Data no. : 10  
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Leo-Li  
 EUT : Baby Monitor  
 Power supply : DC 4.5V From Adapter Input AC 120V/60Hz  
 Test mode : Tx Mode 903.75MHz  
 M/N : PD238111  
 :

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1807.500	24.55	5.01	36.11	53.11	46.56	74.00	27.44	Peak
2	2711.250	28.16	6.55	35.94	57.12	55.89	74.00	18.11	Peak

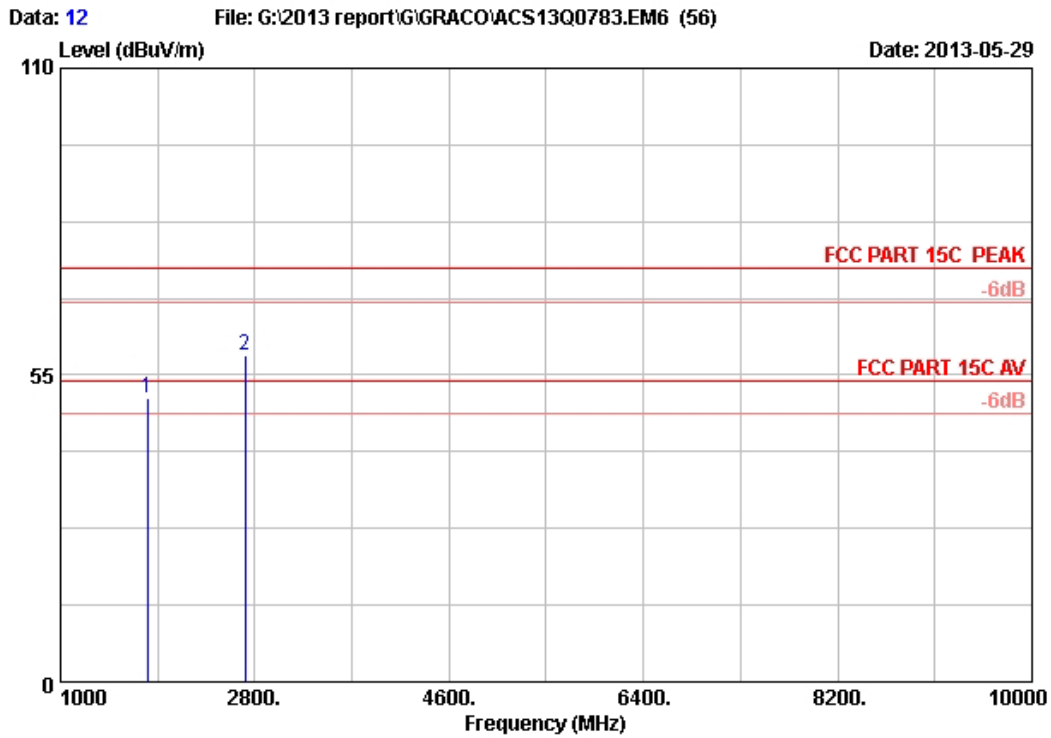
Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Frequency (MHz)	Peak level (dBuV/m)	Duty cycle factor	AV level (dBuV/m)	Limit(dBuV/m)	Conclusion
2711.250	55.89	3.85	46.49	54	Pass



Site no. : 3m Chamber Data no. : 11  
Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL  
Limit : FCC PART 15C PEAK  
Env. / Ins. : 23°C/54% Engineer : Leo-Li  
EUT : Baby Monitor  
Power supply : DC 4.5V From Adapter Input AC 120V/60Hz  
Test mode : Tx Mode 903.75MHz  
M/N : PD238111  
:



Site no. : 3m Chamber Data no. : 12  
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Leo-Li  
 EUT : Baby Monitor  
 Power supply : DC 4.5V From Adapter Input AC 120V/60Hz  
 Test mode : Tx Mode 903.75MHz  
 M/N : PD238111  
 :

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1807.500	24.55	5.01	36.11	57.38	50.83	74.00	23.17	Peak
2	2711.250	28.16	6.55	35.94	59.72	58.49	74.00	15.51	Peak

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Frequency (MHz)	Peak level (dBuV/m)	Duty cycle factor	AV level (dBuV/m)	Limit(dBuV/m)	Conclusion
2711.250	58.49	3.85	49.09	54	Pass



## 5. CONDUCTED SPURIOUS EMISSIONS

### 5.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	Agilent	E4446A	US44300459	May.08,13	1 Year
2.	Attenuator	Agilent	8491B	MY39262165	May.08,13	1 Year
3.	RF Cable	Hubersuhner	SUCOFLEX102	28618/2	May.08,13	1Year

### 5.2. Limit

In any 100kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power.

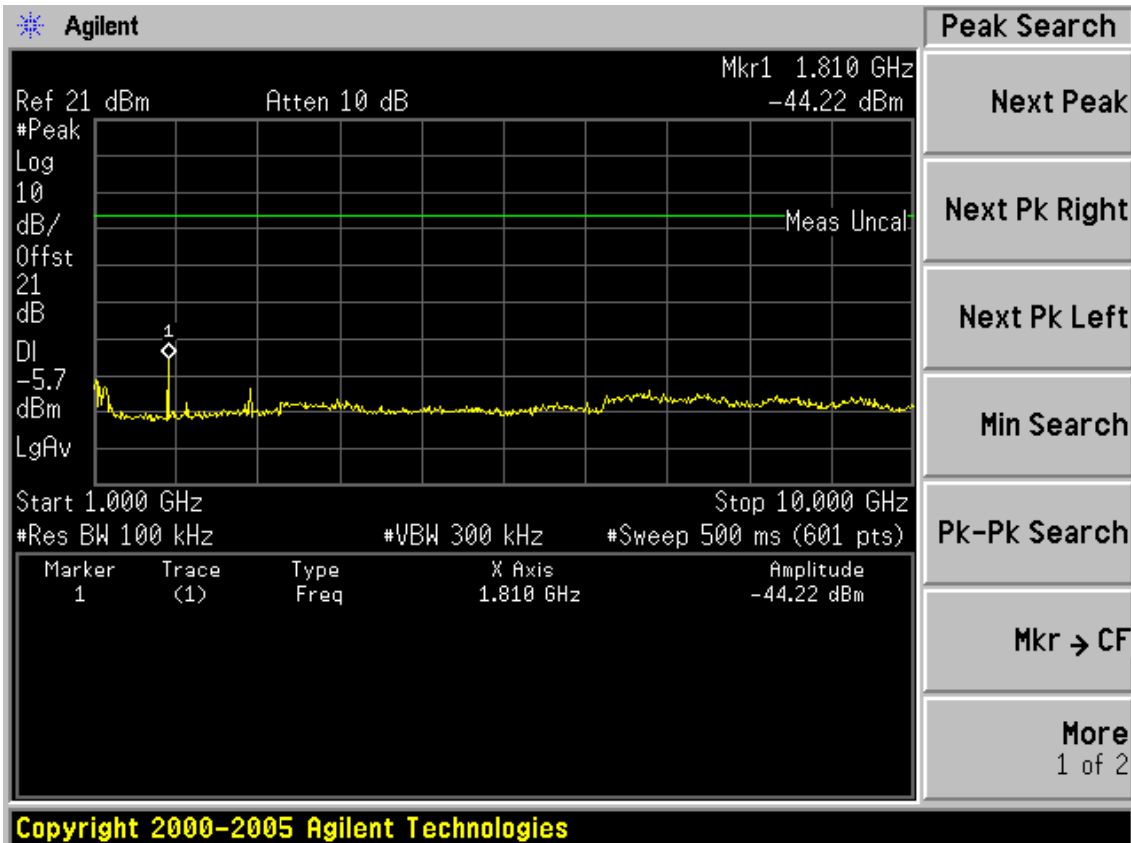
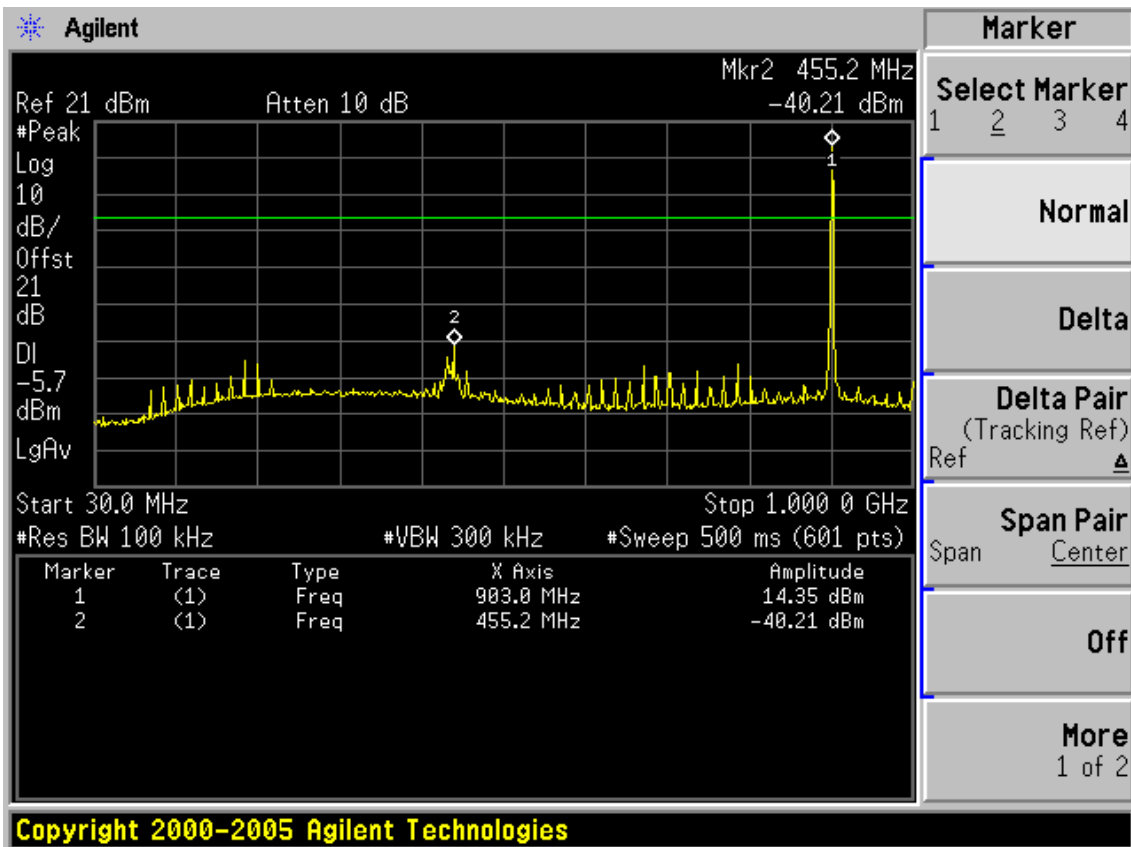
### 5.3. Test Procedure

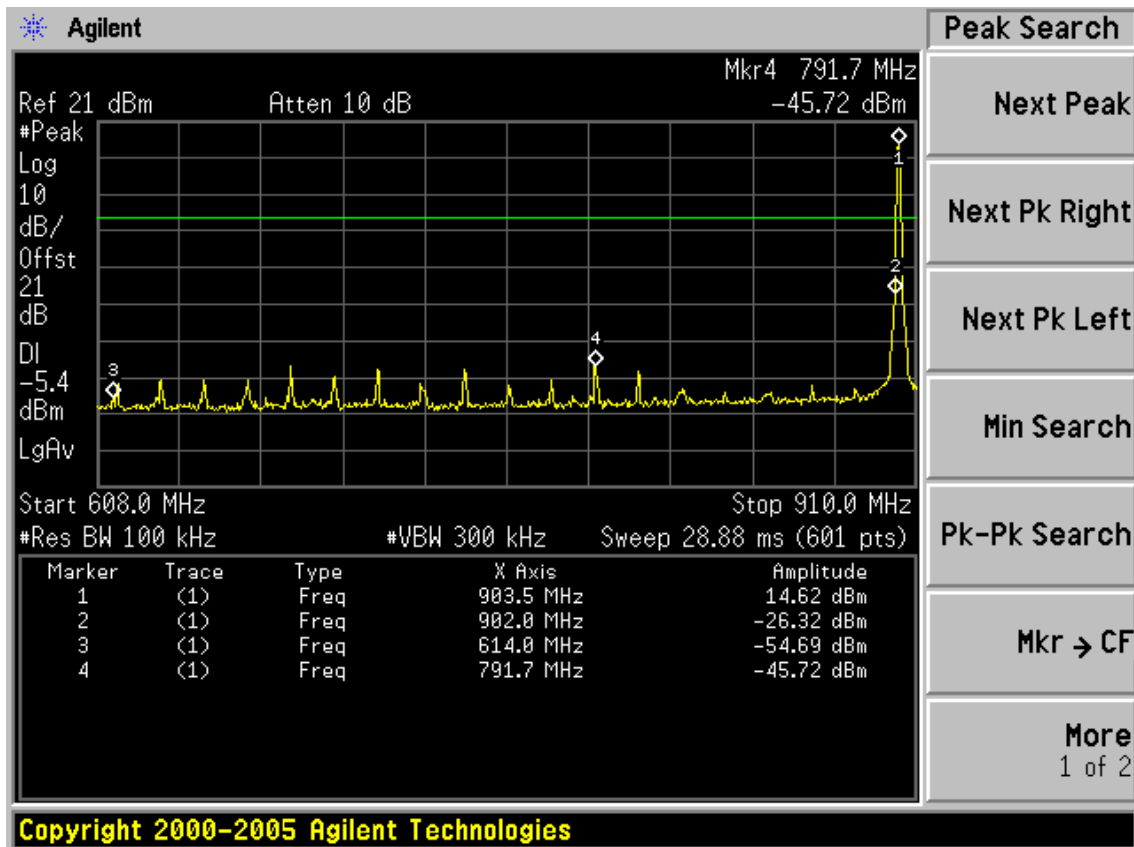
The transmitter output was connected to a spectrum analyzer, The resolution bandwidth is set to 100 kHz, The video bandwidth is set to 300 kHz and measure all the emissions detected.

### 5.4. Test result

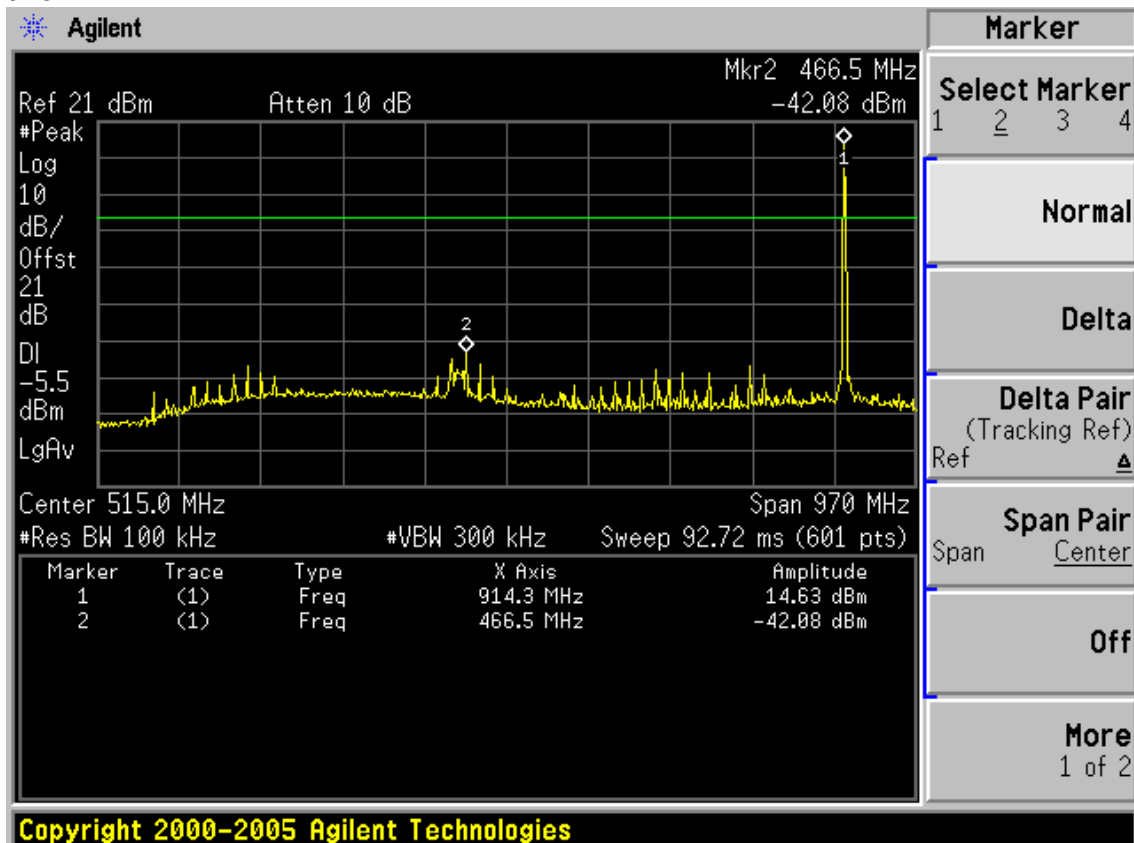
**PASS** (The testing data was attached in the next pages.)

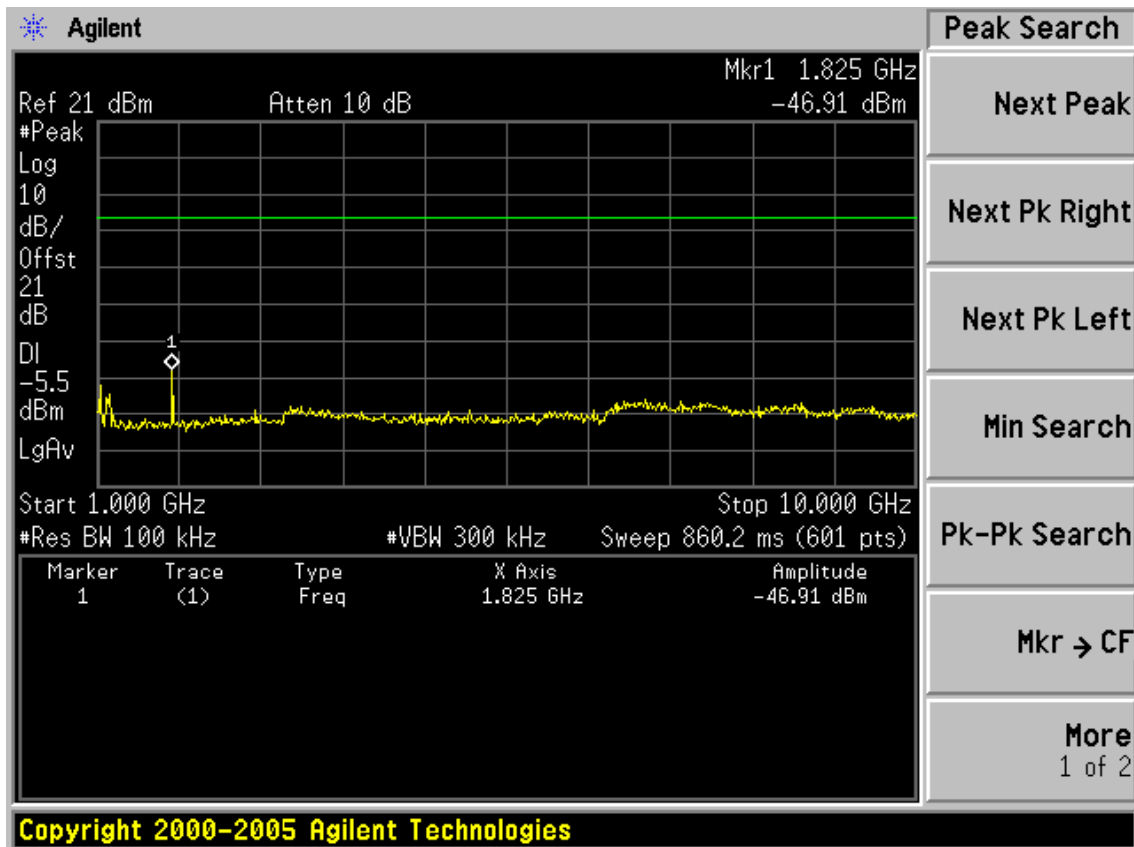
903.75MHz



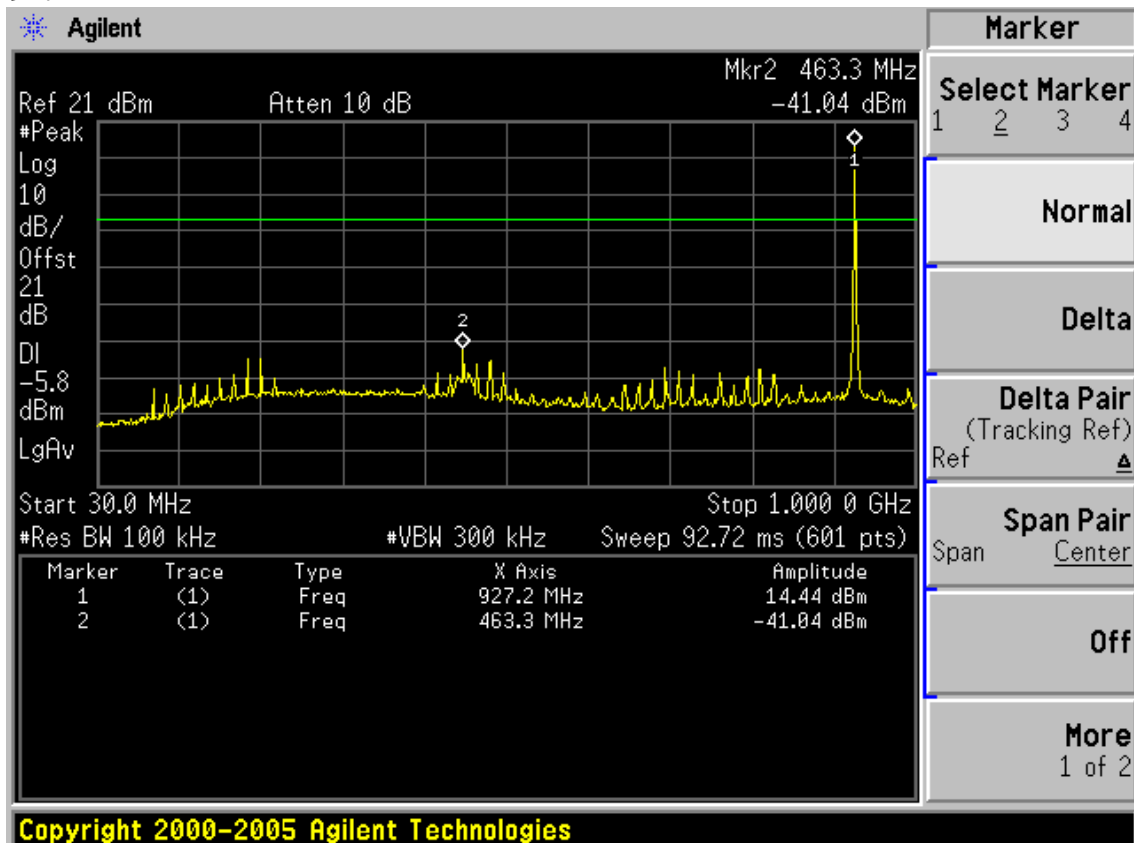


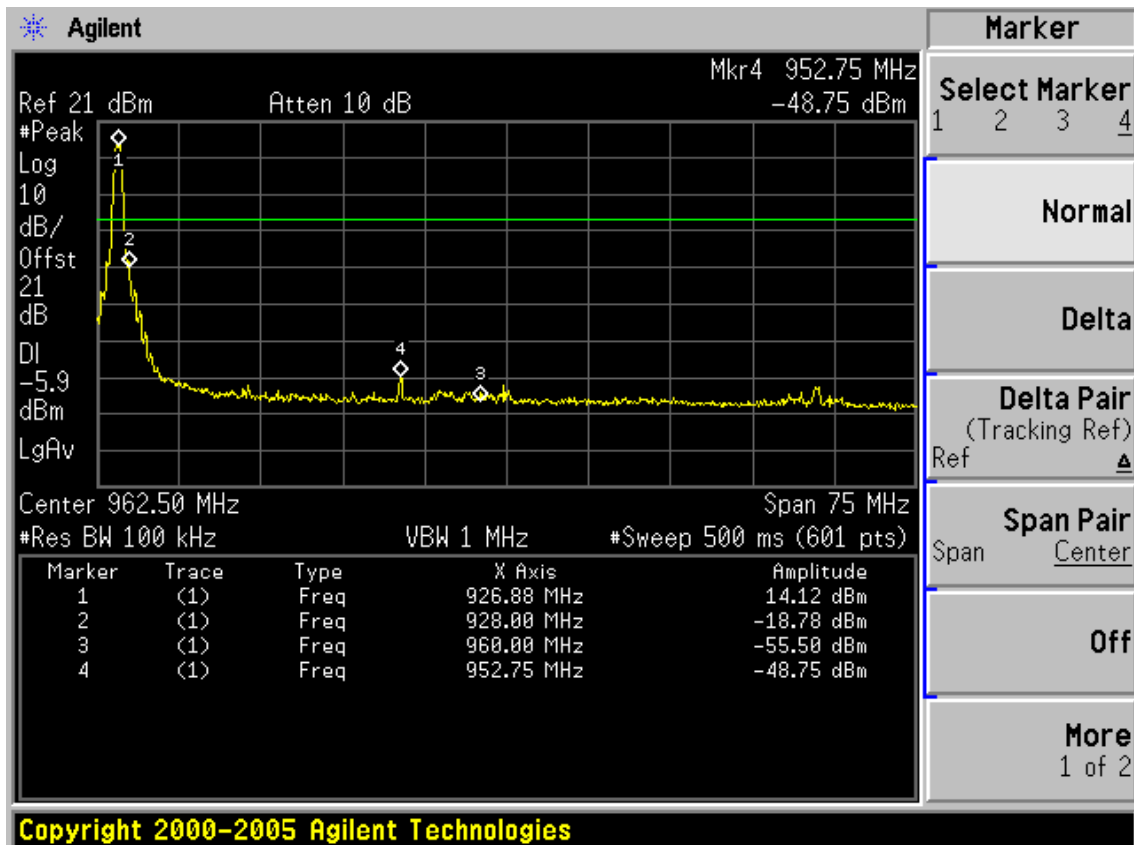
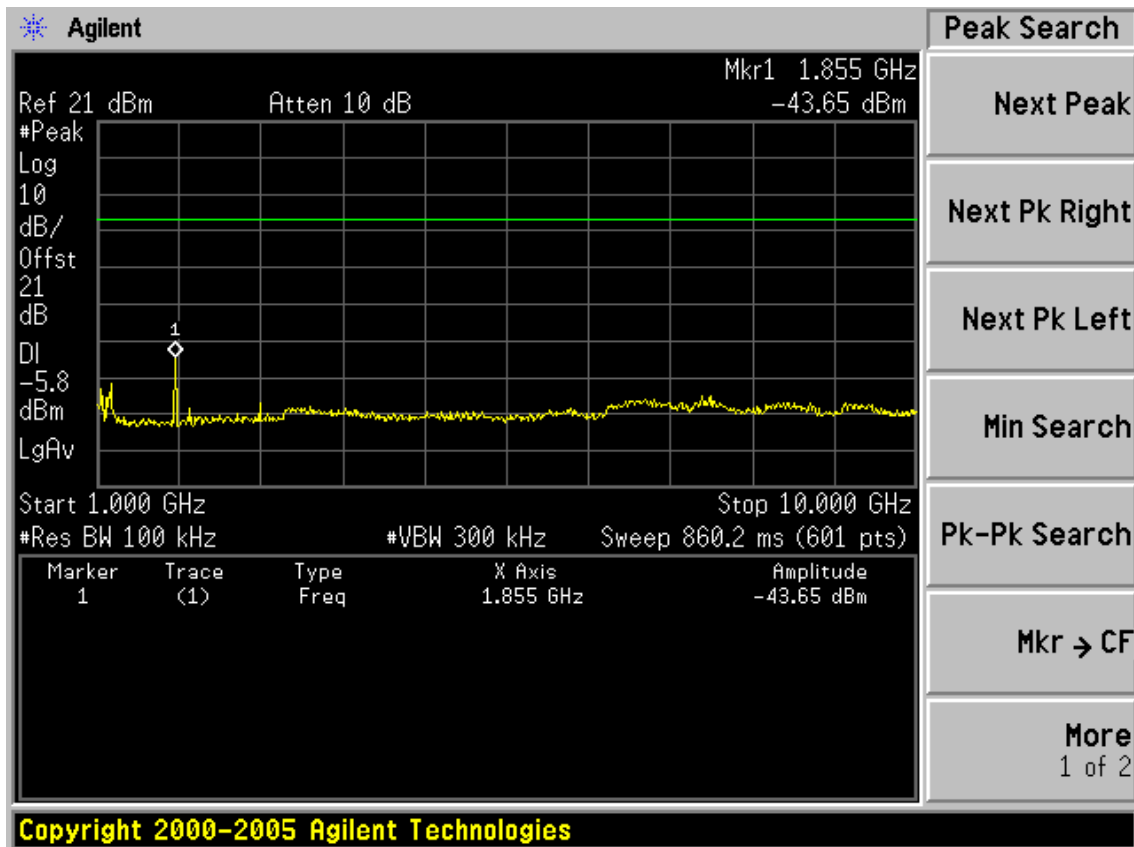
915MHz





927MHz





## 6. BAND EDGE COMPLIANCE TEST

### 6.1. Test Equipment

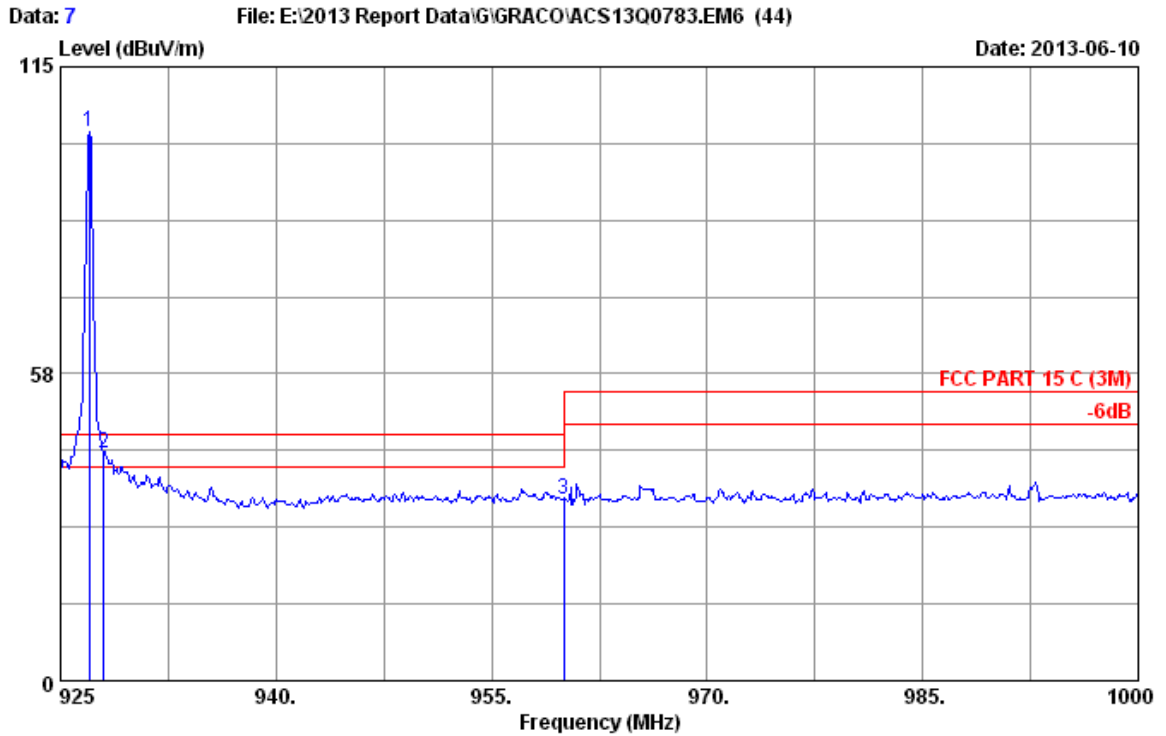
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	E4446A	US44300459	May.08, 13	1 Year
2.	Amp	HP	8449B	3008A08495	May.08, 13	1 Year
3.	Antenna	EMCO	3115	9607-4877	Aug.28, 13	1Year
4.	HF Cable	Hubersuhne	Sucoflex104	-	May.08, 13	1 Year

### 6.2. Limit

All the lower and upper band-edges emissions should comply with the radiated emission limit 15.209.

### 6.3. Test Produce

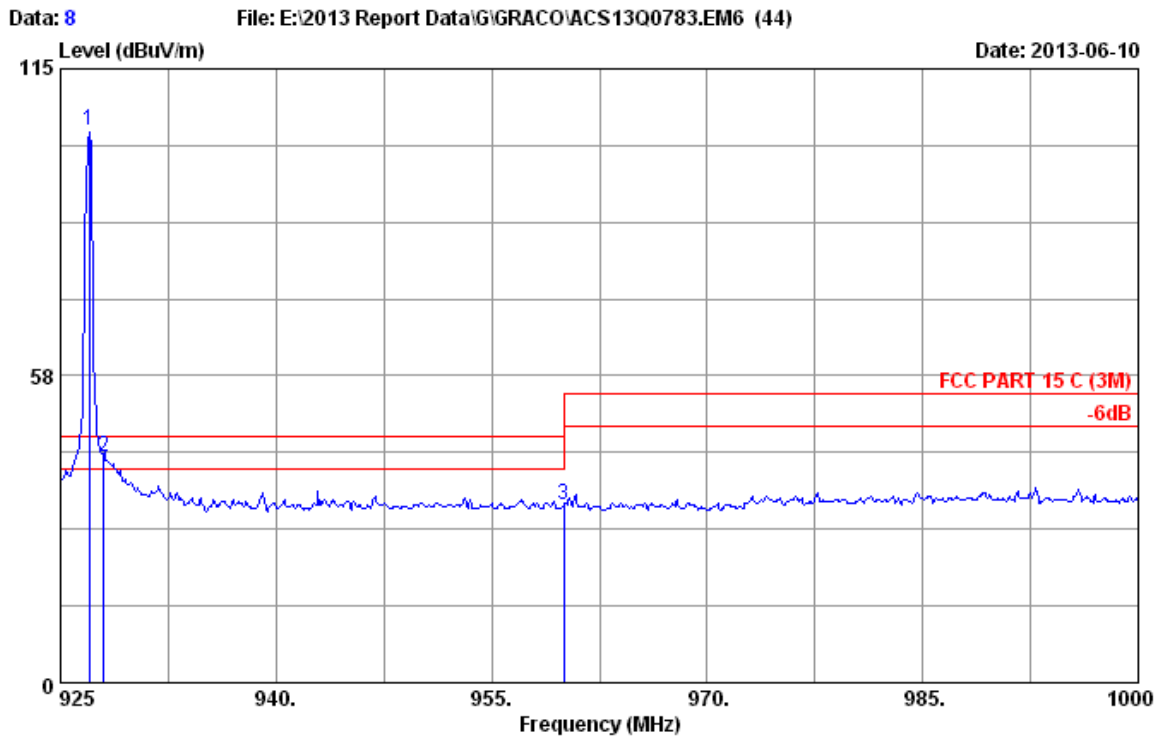
1. The EUT is placed on a turntable, which is 0.8m above the ground plane and worked at highest radiated power.
2. The turntable was rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
4. Set the spectrum analyzer in the following setting in order to capture the lower and upperband-edges of the emission:
  - (a) PEAK: RBW=1MHz ;VBW=3MHz, PK detector, Sweep=AUTO
  - (b)This device is pulse modulated, a duty cycle factor was used to calculate average level based measured peak level



Site no. : 3m Chamber Data no. : 7  
 Dis. / Ant. : 3m 2013 CBL6111C 2598 Ant. pol. : VERTICAL  
 Limit : FCC PART 15 C (3M)  
 Env. / Ins. : 24°C/65% Engineer : Leo\_Li  
 EUT : Baby monitor  
 Power rating : DC 4.5V From Adapter Input AC 120V/60Hz  
 Test Mode : Tx Mode 927MHz  
 PD238111

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	927.025	23.48	4.01	75.29	102.78	46.00	-56.78	QP
2	928.000	23.52	4.01	15.09	42.62	46.00	3.38	QP
3	960.000	24.00	4.11	5.98	34.09	46.00	11.91	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

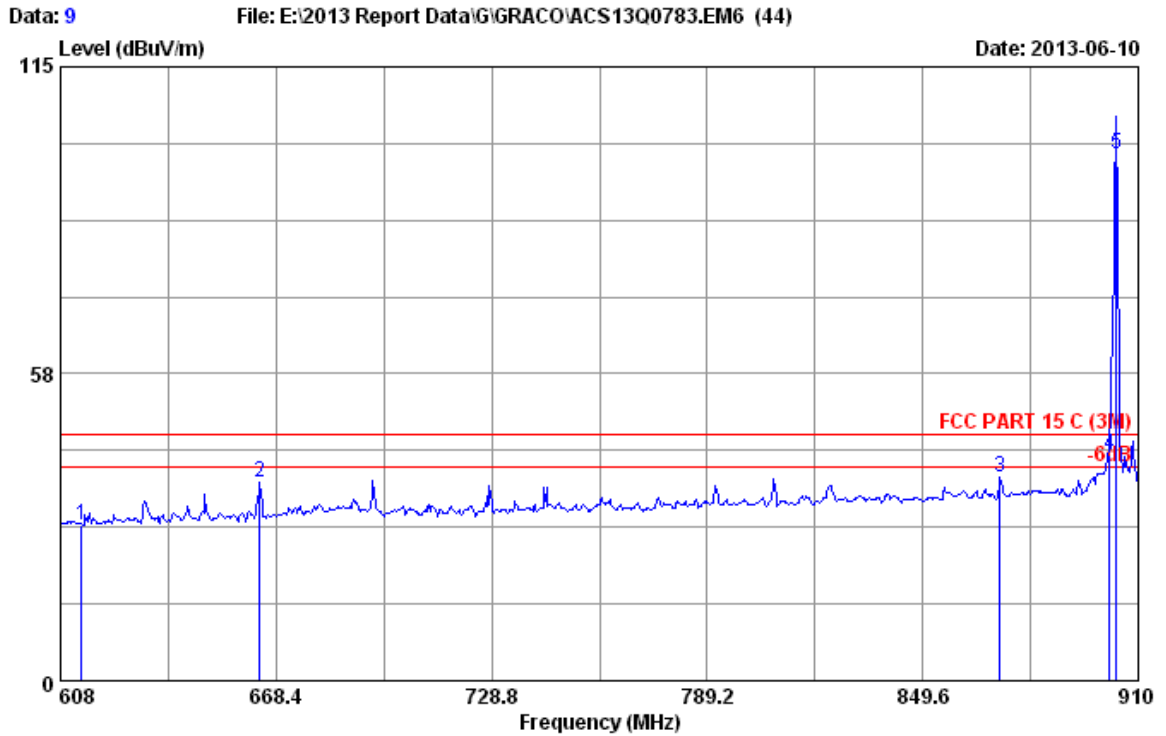


Site no. : 3m Chamber Data no. : 8  
 Dis. / Ant. : 3m 2013 CBL6111C 2598 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15 C (3M)  
 Env. / Ins. : 24°C/65% Engineer : Leo\_Li  
 EUT : Baby monitor  
 Power rating : DC 4.5V From Adapter Input AC 120V/60Hz  
 Test Mode : Tx Mode 927MHz  
 PD238111

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	927.025	23.48	4.01	75.92	103.41	46.00	-57.41	QP
2	928.000	23.52	4.01	14.62	42.15	46.00	3.85	QP
3	960.000	24.00	4.11	5.19	33.30	46.00	12.70	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

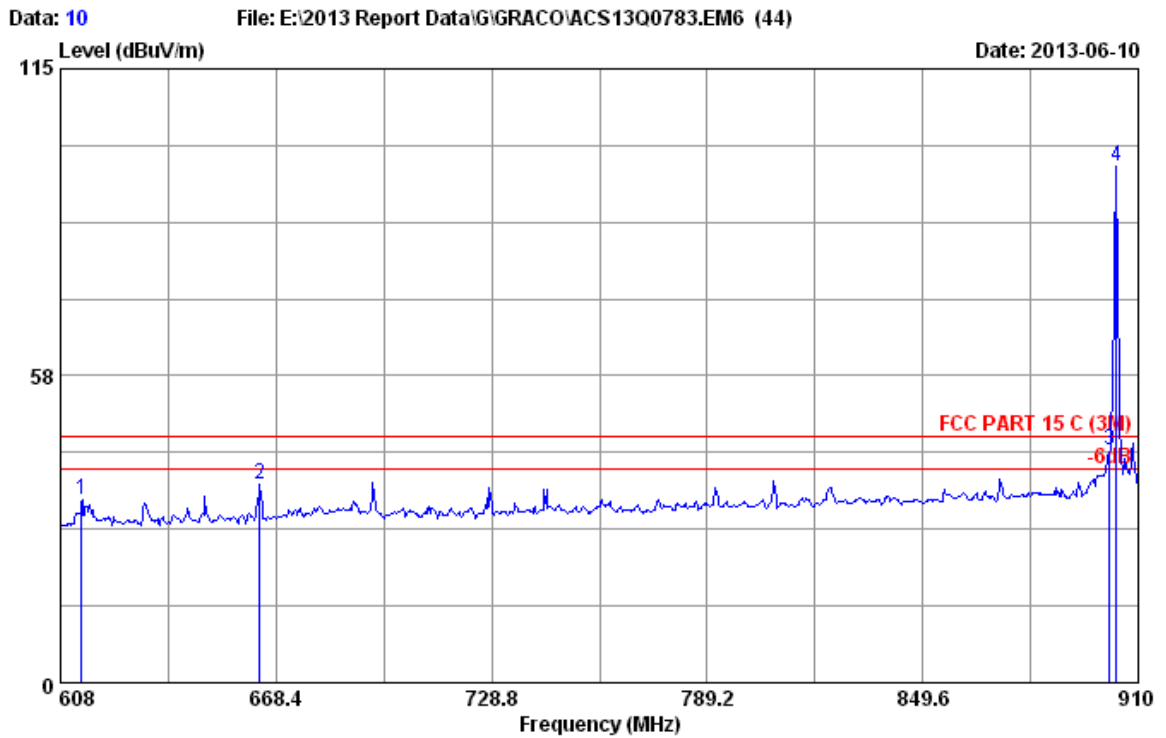




Site no. : 3m Chamber Data no. : 9  
 Dis. / Ant. : 3m 2013 CBL6111C 2598 Ant. pol. : VERTICAL  
 Limit : FCC PART 15 C (3M)  
 Env. / Ins. : 24°C/65% Engineer : Leo\_Li  
 EUT : Baby monitor  
 Power rating : DC 4.5V From Adapter Input AC 120V/60Hz  
 Test Mode : Tx Mode 903.75MHz  
 PD238111

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	614.000	19.98	3.08	6.22	29.28	46.00	16.72	QP
2	663.870	20.30	3.22	13.73	37.25	46.00	8.75	QP
3	871.344	22.83	3.83	11.48	38.14	46.00	7.86	QP
4	902.000	22.84	3.93	15.65	42.42	46.00	3.58	QP
5	903.960	22.88	3.94	71.81	98.63	46.00	-52.63	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 10  
 Dis. / Ant. : 3m 2013 CBL6111C 2598 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15 C (3M)  
 Env. / Ins. : 24°C/65% Engineer : Leo\_Li  
 EUT : Baby monitor  
 Power rating : DC 4.5V From Adapter Input AC 120V/60Hz  
 Test Mode : Tx Mode 903.75MHz  
 PD238111

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	614.000	19.98	3.08	11.22	34.28	46.00	11.72	QP
2	663.870	20.30	3.22	13.73	37.25	46.00	8.75	QP
3	902.000	22.84	3.93	16.65	43.42	46.00	2.58	QP
4	903.960	22.88	3.94	69.81	96.63	46.00	-50.63	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

## 7. 6DB BANDWIDTH TEST

### 7.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	E4446A	US44300459	May.08, 13	1 Year
2.	Amp	HP	8449B	3008A08495	May.08, 13	1 Year
3.	Antenna	EMCO	3115	9510-4580	May.31, 13	1Year
4.	HF Cable	Hubersuhner	Sucoflex104	-	May.08, 13	1 Year

### 7.2. Limit

For direct sequence systems, the minimum 6dB bandwidth shall be at least 500kHz

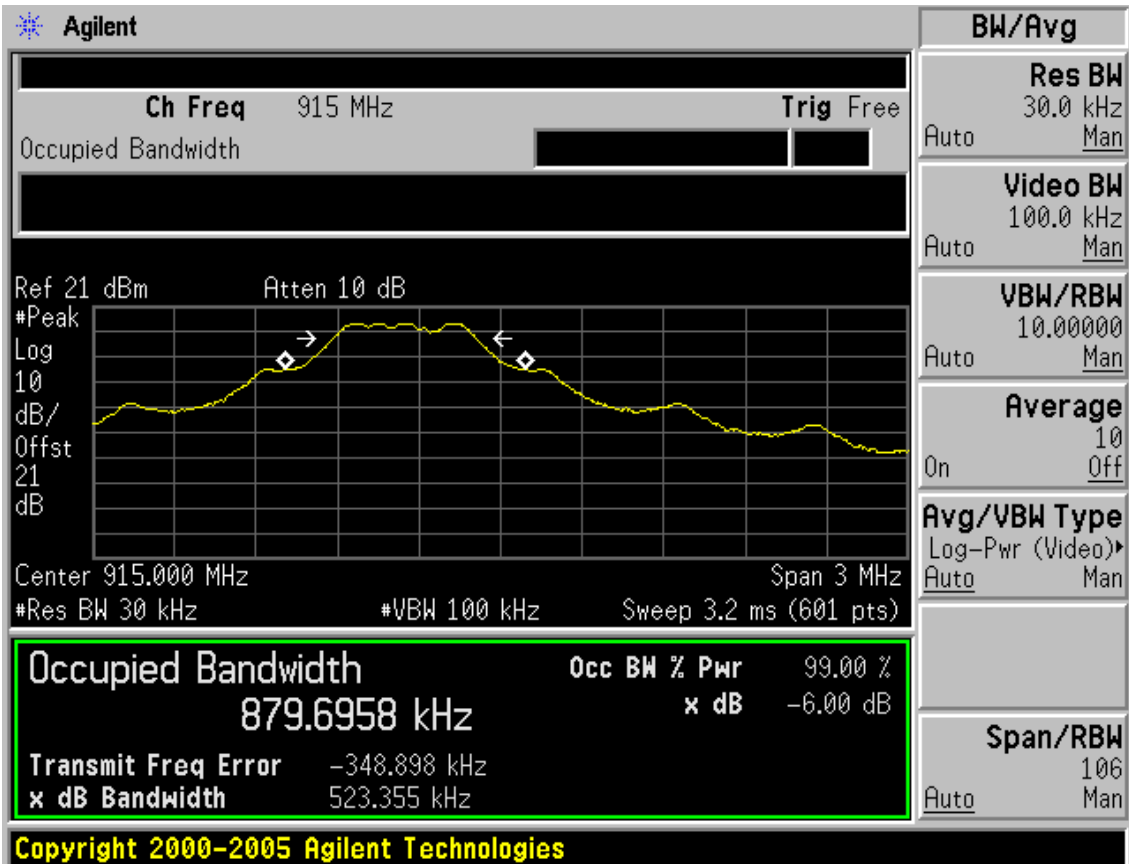
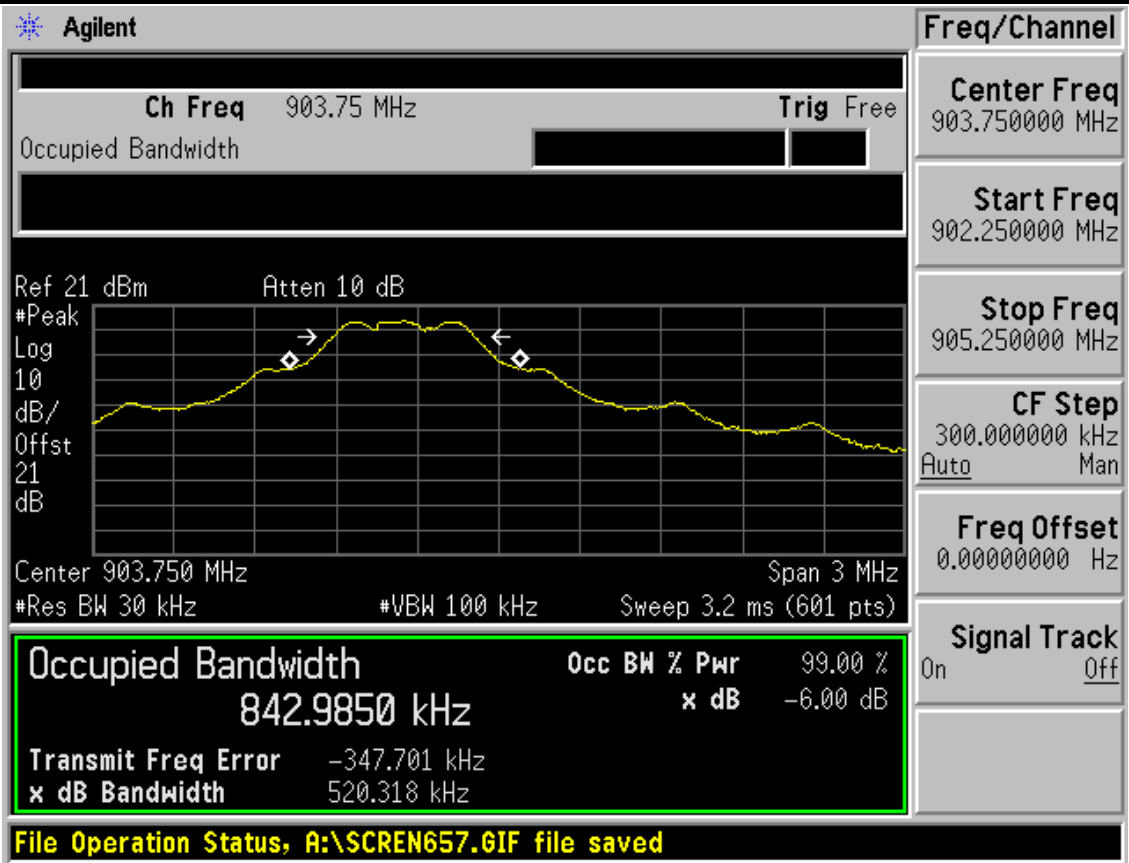
### 7.3. Test Procedure

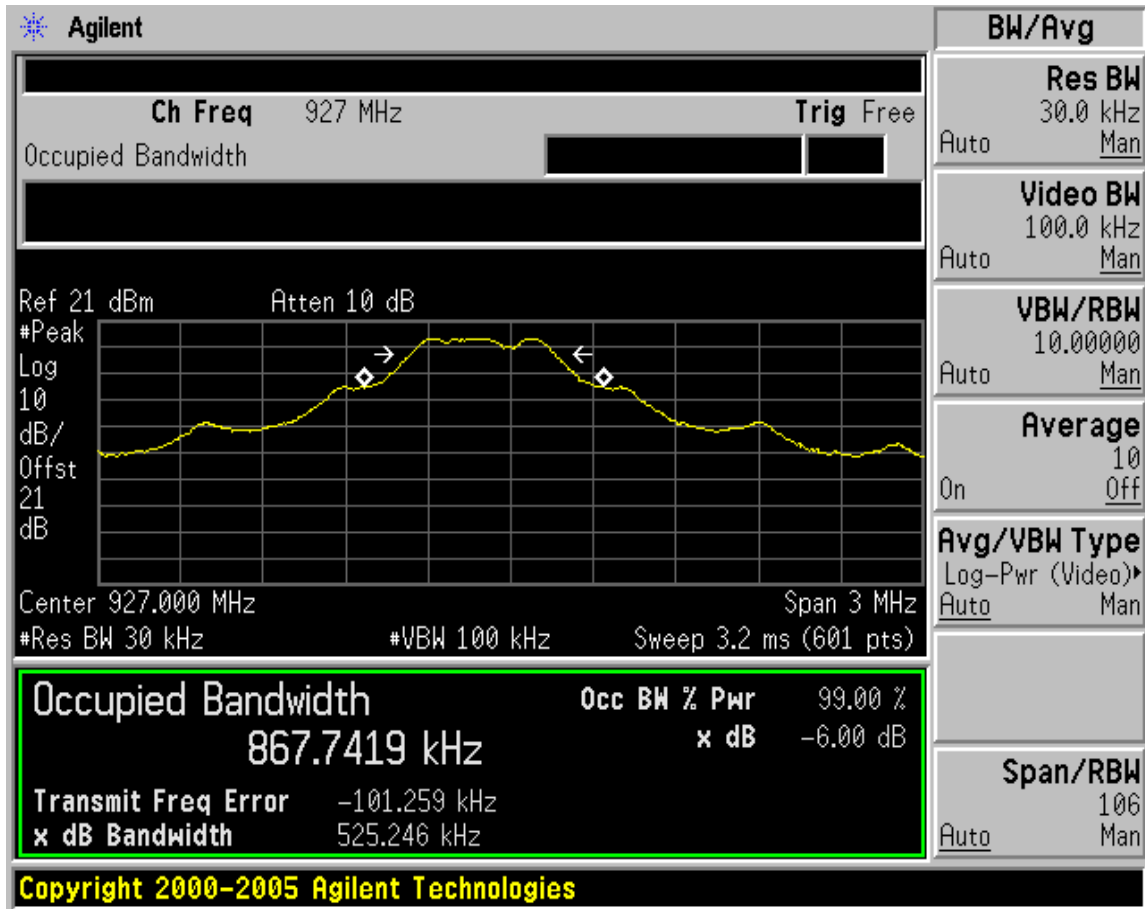
The transmitter output was connected to a spectrum analyzer, The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100kHz RBW and 300 kHz VBW. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

### 7.4. Test Results

EUT: Baby Monitor		
M/N: PD238111		
Test date: 2013-06-8	Pressure: 101.2±1.0 kpa	Humidity:51.7±3.0%
Tested by: Leo-Li	Test site: RF site	Temperature:22.2±0.6 °C

Cable loss: 1 dB		Attenuator loss: 20 dB	
Test Mode	Frequency(MHz)	6dB bandwidth ( MHz )	Limit (KHz)
Tx Mode	903.75	520.318	>500
	915	523.355	>500
	927	525.246	>500
Conclusion : PASS			





## 8. OUTPUT POWER TEST

### 8.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	E4446A	US44300459	May.08, 13	1 Year
2.	Amp	HP	8449B	3008A08495	May.08, 13	1 Year
3.	Antenna	EMCO	3115	9510-4580	May.31, 13	1Year
4.	HF Cable	Hubersuhne	Sucoflex104	-	May.08, 13	1 Year
5.	Power Meter	Anritsu	ML2487A	6K00002472	May.08, 13	1Year
6.	Power Sensor	Anritsu	MA2491A	033005	May.08, 13	1Year

### 8.2. Limit (FCC Part 15C 15.247 b(3))

For systems using digital modulation in the 902—928MHz, The Peak out put Power shall not exceed 1W(30dBm)

### 8.3. Test Procedure

1. Connected the EUT's antenna port to power meter by 26dB attenuator.
2. Use the power meter read out the peak output power of the low middle high channel.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

## 8.4. Test Results

EUT: Baby Monitor			
M/N: PD238111			
Test date: 2013-06-08		Pressure: 101.2±1.0kpa	Humidity: 51.7±3.0%
Tested by: Leo-Li		Test site: RF site	Temperature: 23.4±0.6 °C
Cable loss: 1 dB		Attenuator loss: 20 dB	
Test Mode	Frequency(MHz)	Peak output Power (dBm)	Limit (dBm)
Tx Mode	903.75	11.34	30
	915	11.26	30
	927	11.14	30
Conclusion: PASS			

## 9. POWER SPECTRAL DENSITY TEST

### 9.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	E4446A	US44300459	May.08, 13	1 Year
2.	Amp	HP	8449B	3008A08495	May.08, 13	1 Year
3.	Antenna	EMCO	3115	9510-4580	May.31, 13	1Year
4.	HF Cable	Hubersuhne	Sucoflex104	-	May.08, 13	1 Year

### 9.2. Limit

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.

### 9.3. Test Procedure

1. Connected the EUT's antenna port to spectrum analyzer device by 20dB attenuator.
2. Set the test frequency as center frequency, Set RBW=3KHz, VBW=10KHz, Span large enough capture the entire frequency, Read out maximum peak level frequency
3. Set the frequency read from produce 2 as center frequency, then set the span=300KHz, Sweep time=Span/RBW, Then Max hold, read out each mode and each chain's Power density.

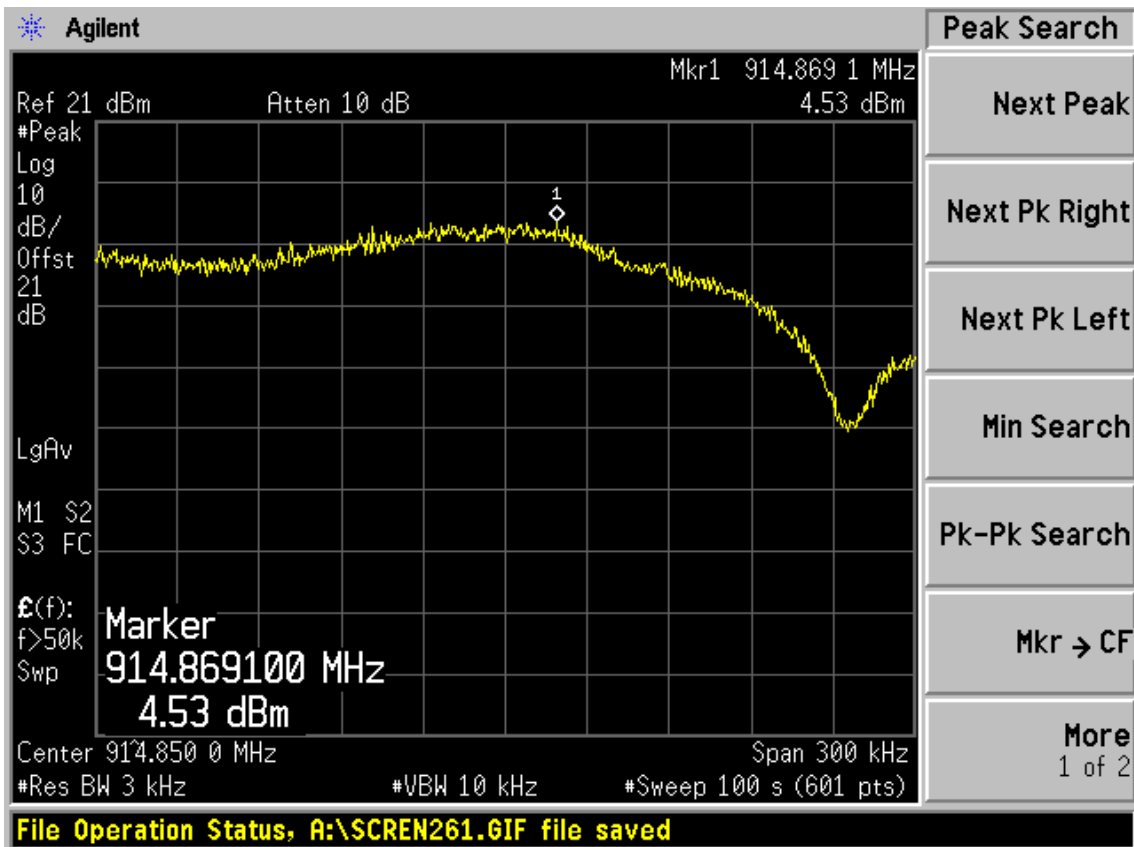
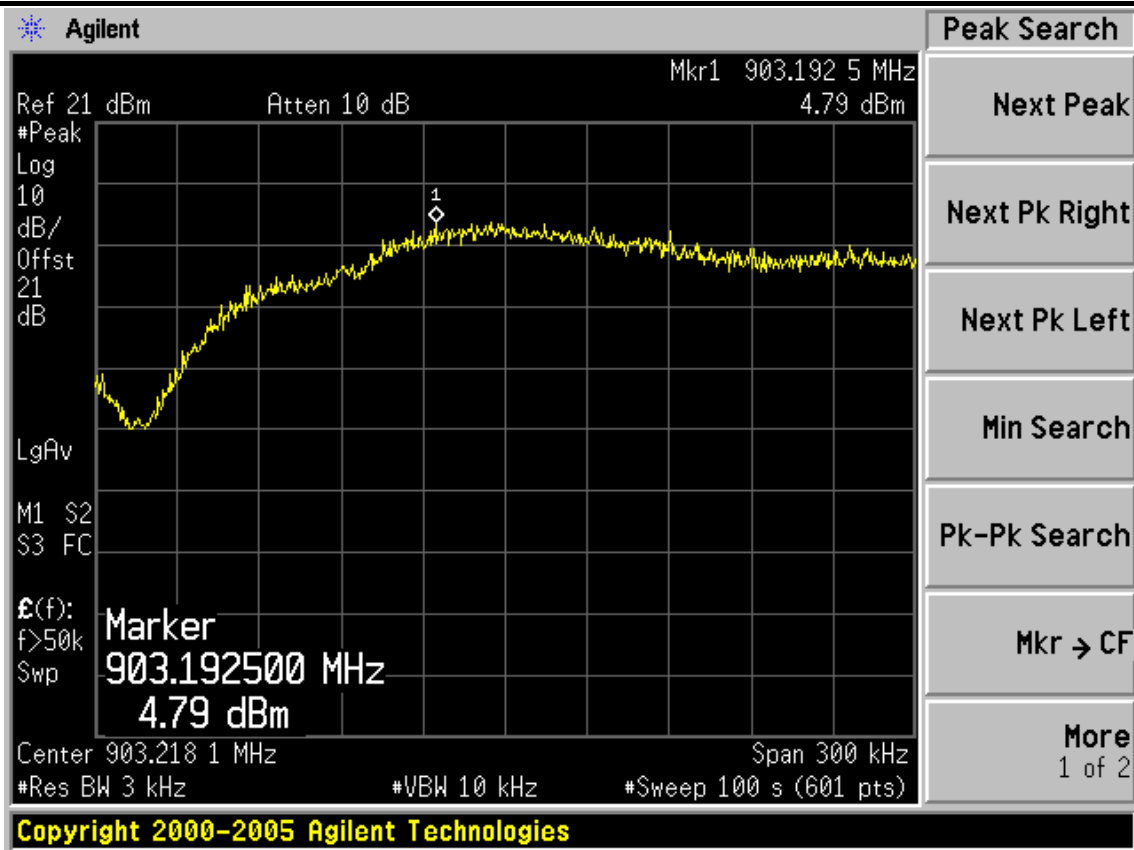
Note: The cable loss and attenuator loss were offset into measure device as an amplitude

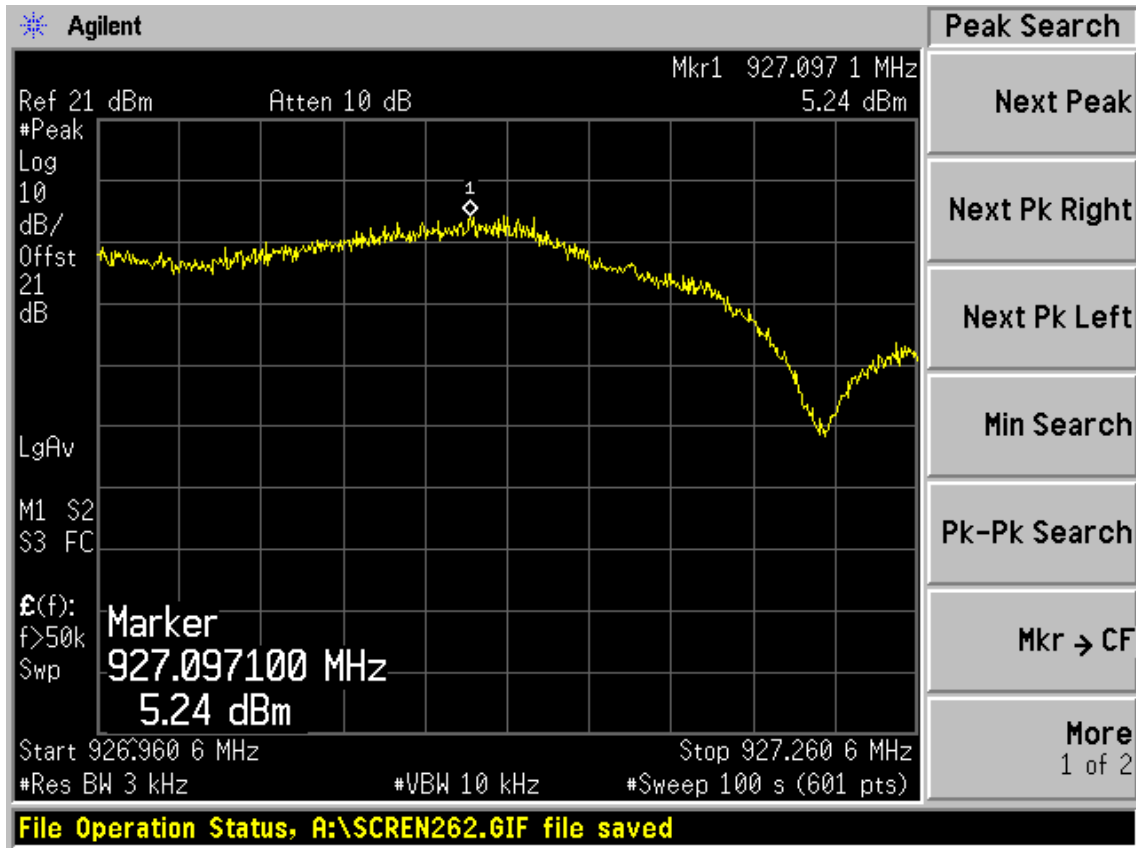


9.4.Test Results

EUT: Baby Monitor		
M/N:PD238111		
Test date: 2013-06-8	Pressure: 101.2±1.0 kpa	Humidity: 52.1±3.0%
Tested by: Leo-Li	Test site: RF Site	Temperature: 3.9±0.6°C

Cable loss: 1 dB		Attenuator loss: 20 dB	
Test Mode	Fequency(MHz)	Power density ( dBm/3KHz )	Limit (dBm/3KHz)
Tx Mode	903.75	4.79	8
	915	4.53	8
	927	5.24	8
Conclusion : PASS			





## **10.DEVIATION TO TEST SPECIFICATIONS**

[NONE]