

FCC PART 15.235

EMI MEASUREMENT AND TEST REPORT

For

JOYO Electronics Company Limited

Unit D, 13/F., World Tech Centre, 95 How Ming Street, Kwun Tong., Kowloon, Hong Kong

FCC ID: R4GJY16601

September 23, 2005

This Report Concerns: ☒ Original Report	Equipment Type: Transmitter, Wireless Baby Monitor
Test Engineer: Jandy Su	
Report No.:	RSZ05091901
Test Date:	September 21, 2005
Reviewed By: Chris Zeng	
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Note: The test report is specially limited to the above company and this particular sample only. It may not be duplicated without prior written consent of Bay Area Compliance Lab Corp. (ShenZhen). This report **must not** be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the US Government.

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GENERAL INFORMATION

Product Description for Equipment Under Test (EUT)

The JOYO Electronics Company Limited 's product, model number: JY-166 or the "EUT" as referred to in this report is a Wireless Baby Monitor. The EUT is measured approximately 7.5cm L x 6.5cm W x 3.5cm H, rated input voltage: DC 9V adapter or DC 9V battery, with permanently Antenna 9cm.

Adapter:

Model: TFD28U0900200, Input: 120 V/60 Hz, Output: 9 V DC 200 mA.

** The test data gathered are from production sample, serial number: 16605, provided by the manufacturer.*

Objective

This Type approval report is prepared on behalf of *JOYO Electronics Company Limited* in accordance with Part 2, Subpart J, and Part 15, Subparts A, B and C of the Federal Communication Commissions rules.

The objective is to determine compliance with FCC rules, section 15.203,15.205,15.207,15.209 and 15.235 rules.

Related Submittal(s)/Grant(s)

No Related Submittals.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.4-2003, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

All radiated and conducted emissions measurement was performed at Bay Area Compliance Lab Corp. (ShenZhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Test Facility

The Test site used by Bay Area Compliance Lab Corp. (ShenZhen) to collect radiated and conducted emission measurement data is located in the 6/F, the 3rd Phase of WanLi Industrial Building, ShiHua Road, FuTian Free Trade Zone, ShenZhen, Guangdong 518038, P.R.China.

Test site at Bay Area Compliance Lab Corp. (ShenZhen) has been fully described in reports submitted to the Federal Communication Commission (FCC). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on November 04, 2004. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2003.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 382179. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

Additionally, Bay Area Compliance Lab Corp. (ShenZhen) is a National Institute of Standards and Technology (NIST) accredited laboratory, under the National Voluntary Laboratory Accredited Program (Lab Code 200707-0). The current scope of accreditations can be found at <http://ts.nist.gov/ts/htdocs/210/214/scopes/2007070.htm>

Local Support Equipment List and Details

Manufacturer	Description	Model	Serial Number	FCC ID
NANYAN	Audio Generator	NY2201	019585	DoC

External I/O Cable

Cable Description	Length (M)	From/Port	To
Unshielded detachable DC Power Cable	1.75	Adapter	EUT

SYSTEM TEST CONFIGURATION

Justification

The system was configured for testing in a typical fashion (as normally used by a typical user).

EUT Exercise Software

N/A.

Special Accessories

The special Accessories were supplied by manufactures.

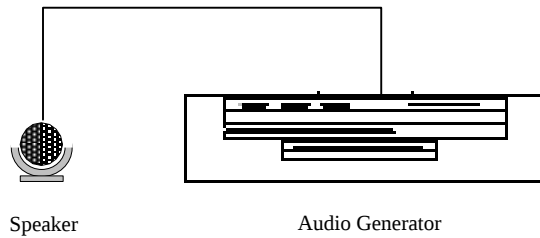
Equipment Modifications

Bay Area Compliance Lab Corp. (ShenZhen) has not done any modification on the EUT.

Configuration of Test Setup



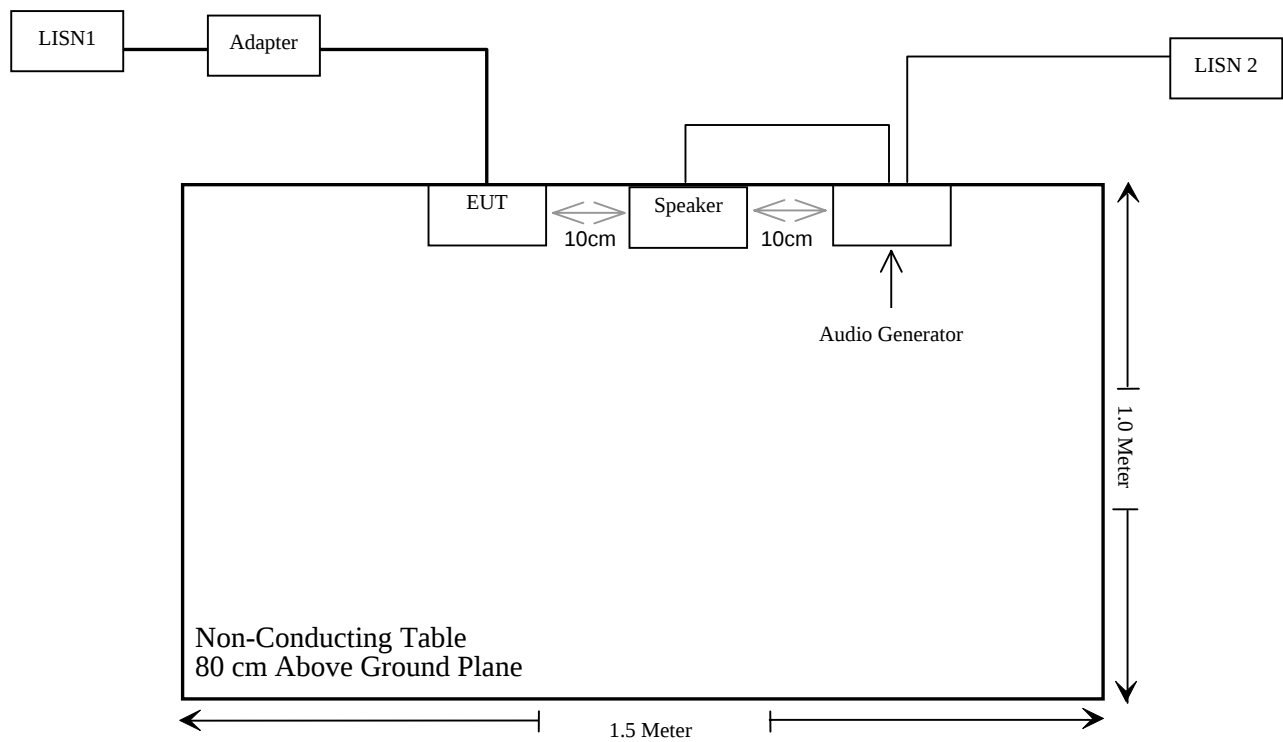
EUT



Speaker

Audio Generator

Block Diagram of Test Setup



SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.203	Antenna requirement	Compliant
§15.207(a)	Conducted Emission	Compliant
§15.209(a) §15.235(a) §15.205	Radiated Emission	Compliant*
§15.235(b)	Band Edge Testing	Compliant

Note 1: The highest clocks of the EUT was 16.625 MHz.

* Within measurement uncertainty

§15.203 - ANTENNA REQUIREMENT

Standard Applicable

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 shall be considered sufficient to comply with the provisions of this section.

This product has a permanent antenna, fulfill the requirement of this section.

Test Result: Pass

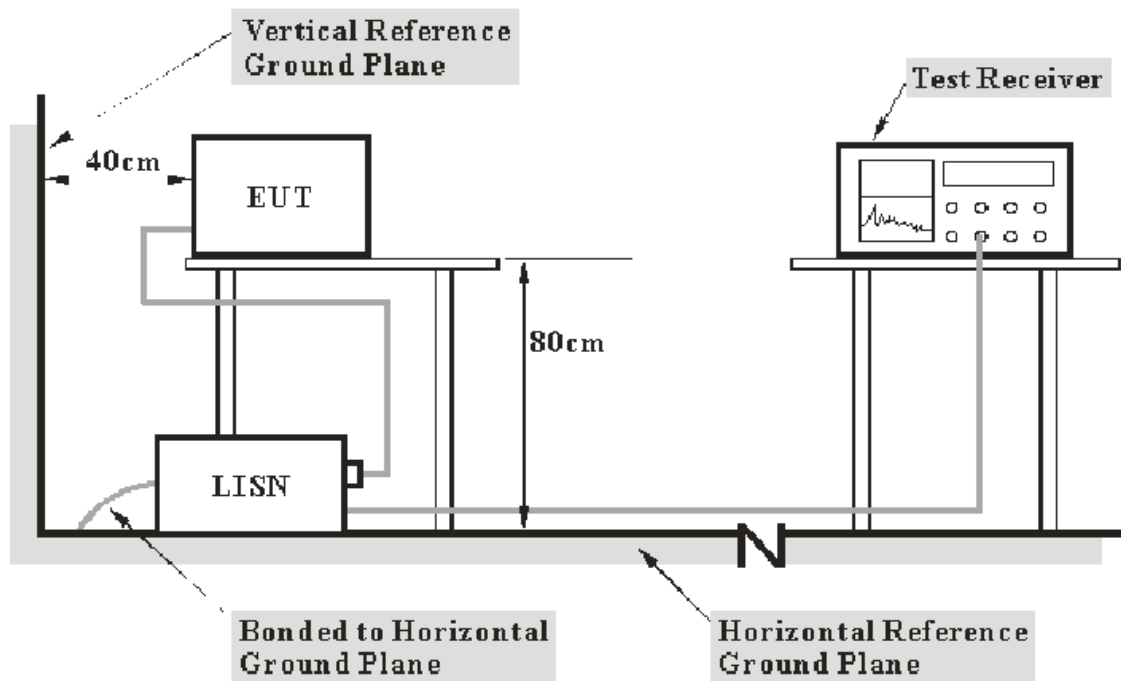
§15.207(a) - CONDUCTED EMISSION

Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, and LISN.

Based on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of any conducted emissions measurement at Bay Area Compliance Lab Corp. (ShenZhen) is ± 3.2 dB.

EUT Setup



- Note:**
1. Support units were connected to second LISN.
 2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.4-2003 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

The adapter was connected to a 120 VAC/60 Hz power source.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

<u>Frequency Range</u>	<u>IFBW</u>
150 kHz – 30 MHz	9 kHz

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Com-Power	L.I.S.N.	LI-200	12005	N/A	N/A
Com-Power	L.I.S.N.	LI-200	12008	N/A	N/A
Rohde & Schwarz	EMI Test Receiver	ESCS30	830245/006	2005-1-26	2006-1-26
Rohde & Schwarz	L.I.S.N.	ESH2-Z5	892107/021	2005-2-28	2006-2-28

* Com-Power's LISN were used as the supporting equipment.

* **Statement of Traceability:** Bay Area Compliance Lab Corp. (ShenZhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

Test Procedure

During the conducted emission test, the adapter was connected to the outlet of the first LISN, and all other support equipment power cords were connected to the outlet of the second LISN.

Maximizing procedure were performed on the six (6) highest emissions of the EUT.

All data was recorded in the Quasi-peak and average detection mode.

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Part 15.207, with the worst margin reading of:

Channel A: -27.70 dB at 0.690 MHz in the Neutral conductor mode.

Channel B: -27.50 dB at 0.710 MHz in the Neutral conductor mode.

Test Data**Environmental Conditions**

Temperature:	27° C
Relative Humidity:	58%
ATM Pressure:	1000mbar

The testing was performed by Jandy Su on 2005-9-21.

Test Mode: Transmitting

Channel A

LINE CONDUCTED EMISSIONS				FCC PART 15.207	
Frequency MHz	Amplitude dBμV	Detector QP/AV	Phase Line/Neutral	Limit dBμV	Margin dB
0.690	28.30	QP	Neutral	56.00	-27.70
0.690	15.20	AV	Neutral	46.00	-30.80
1.330	24.80	QP	Line	56.00	-31.20
1.170	23.40	QP	Neutral	56.00	-32.60
19.330	26.70	QP	Neutral	60.00	-33.30
0.290	17.20	AV	Neutral	50.52	-33.32
19.780	26.30	QP	Line	60.00	-33.70
0.290	26.80	QP	Neutral	60.52	-33.72
0.940	22.20	QP	Line	56.00	-33.80
1.330	10.90	AV	Line	46.00	-35.10
4.720	20.80	QP	Neutral	56.00	-35.20
0.290	15.30	AV	Line	50.52	-35.22
4.635	20.30	QP	Line	56.00	-35.70
0.940	10.10	AV	Line	46.00	-35.90
1.170	10.00	AV	Neutral	46.00	-36.00
0.290	24.50	QP	Line	60.52	-36.02
4.720	9.10	AV	Neutral	46.00	-36.90
19.330	12.70	AV	Neutral	50.00	-37.30
7.475	22.50	QP	Line	60.00	-37.50
4.635	8.20	AV	Line	46.00	-37.80
19.780	11.60	AV	Line	50.00	-38.40
8.895	21.20	QP	Neutral	60.00	-38.80
7.475	9.60	AV	Line	50.00	-40.40
8.895	8.30	AV	Neutral	50.00	-41.70

Channel B

Frequency MHz	LINE CONDUCTED EMISSIONS			FCC PART 15.207	
	Amplitude dBμV	Detector QP/AV	Phase Line/Neutral	Limit dBμV	Margin dB
0.710	28.50	QP	Neutral	56.00	-27.50
0.710	15.30	AV	Neutral	46.00	-30.70
1.340	24.40	QP	Line	56.00	-31.60
1.135	22.80	QP	Neutral	56.00	-33.20
0.300	27.00	QP	Neutral	60.24	-33.24
19.060	26.60	QP	Neutral	60.00	-33.40
19.380	26.20	QP	Line	60.00	-33.80
0.300	15.80	AV	Neutral	50.24	-34.44
0.680	21.50	QP	Line	56.00	-34.50
0.290	25.90	QP	Neutral	60.52	-34.62
0.680	10.70	AV	Line	46.00	-35.30
0.290	15.20	AV	Line	50.52	-35.32
4.000	20.50	QP	Line	56.00	-35.50
1.135	10.30	AV	Neutral	46.00	-35.70
1.340	9.90	AV	Line	46.00	-36.10
0.375	22.10	QP	Neutral	58.39	-36.29
8.810	23.00	QP	Line	60.00	-37.00
19.060	12.70	AV	Neutral	50.00	-37.30
19.380	12.60	AV	Line	50.00	-37.40
0.375	10.80	AV	Neutral	48.39	-37.59
8.795	22.00	QP	Neutral	60.00	-38.00
4.000	7.60	AV	Line	46.00	-38.40
8.810	9.40	AV	Line	50.00	-40.60
8.795	8.60	AV	Neutral	50.00	-41.40

Plot(s) of Test Data

Plot(s) of Test Data is presented hereinafter as reference.

Conducted Disturbance Test FCC Part 15

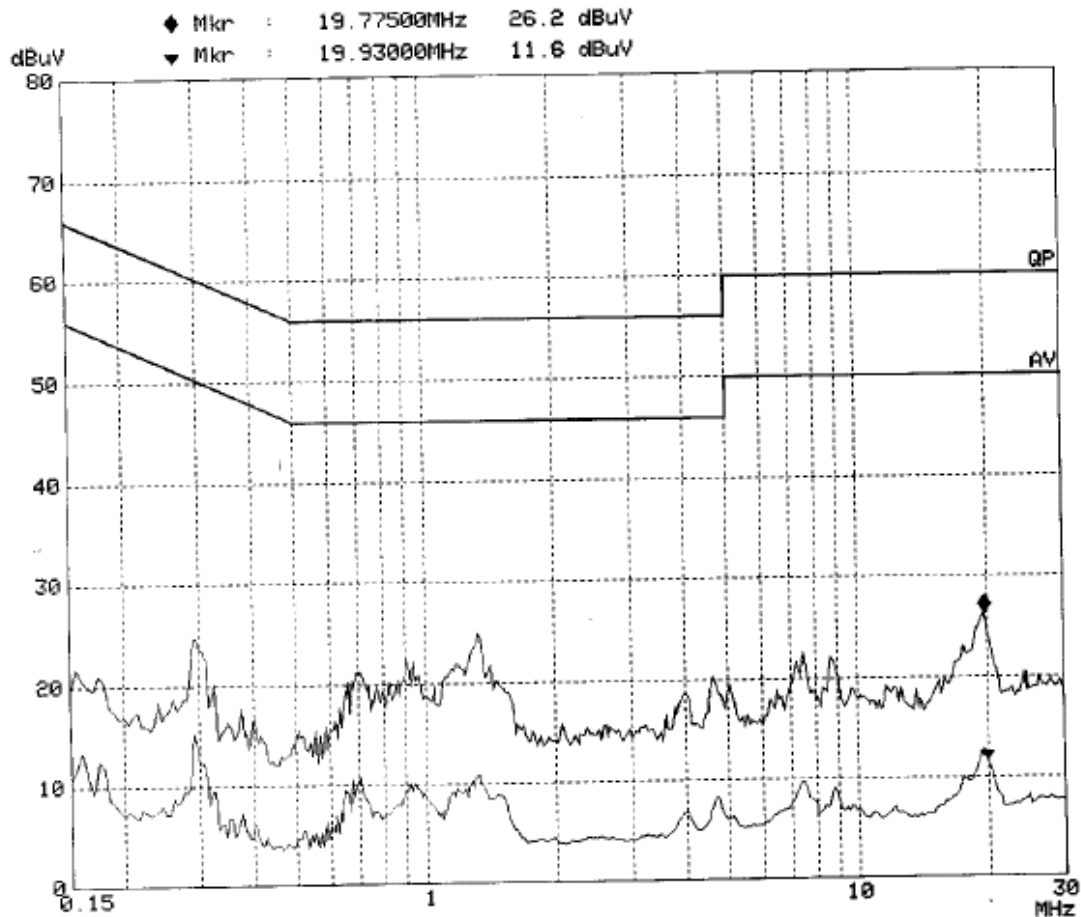
EUT: Wireless baby monitor M/N:JY-166
Manuf: JOYO
Op Cond: Running CHA
Operator: Jandy
Test Spec: AC 120V/60Hz L
Comment: Temp:27
Humi:58%
Date: 21. Sep 05 20:37

Scan Settings (1 Range)

Frequencies			Receiver Settings			
Start	Stop	Step	IF BW	Detector	M-Time	Atten Preamp
150k	30M	5k	9k	PK+AV	20ms AUTO	LN OFF

Transducer No.	Start	Stop	Name
1	9k	30M	FACTOR

Final Measurement: x QP / + AV
Meas Time: 1 s
Subranges: 25
Acc Margin: 6dB



Conducted Disturbance Test FCC Part 15

EUT: Wireless baby monitor M/N:JY-166
Manuf: JOYO
Op Cond: Running CHA
Operator: Jandy
Test Spec: AC 120V/60Hz N
Comment: Temp:27
Humi:58%
Date: 21. Sep 05 20:20

Scan Settings (1 Range)

Frequencies			Receiver Settings				
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp
150k	30M	5k	9k	PK+AV	20ms	AUTO	LN OFF

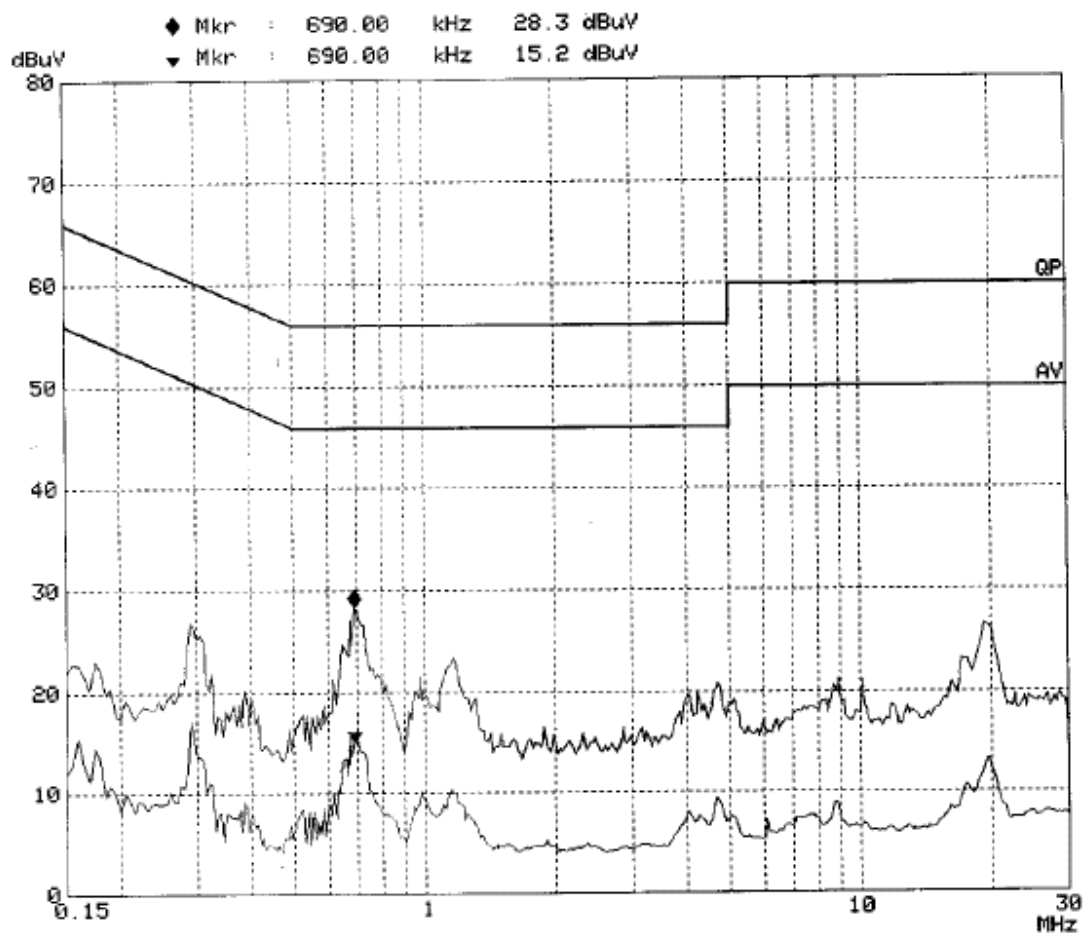
Transducer No.	Start	Stop	Name
1	9k	30M	FACTOR

Final Measurement: x QP / + AV

Meas Time: 1 s

Subranges: 25

Acc Margin: 6dB



Conducted Disturbance Test FCC Part 15

EUT: Wireless baby monitor M/N:JY-166
Manuf: JOYO
Op Cond: Running CHB
Operator: Jandy
Test Spec: AC 120V/60Hz L
Comment: Temp:27
Humi:58%
Date: 21. Sep 05 21:25

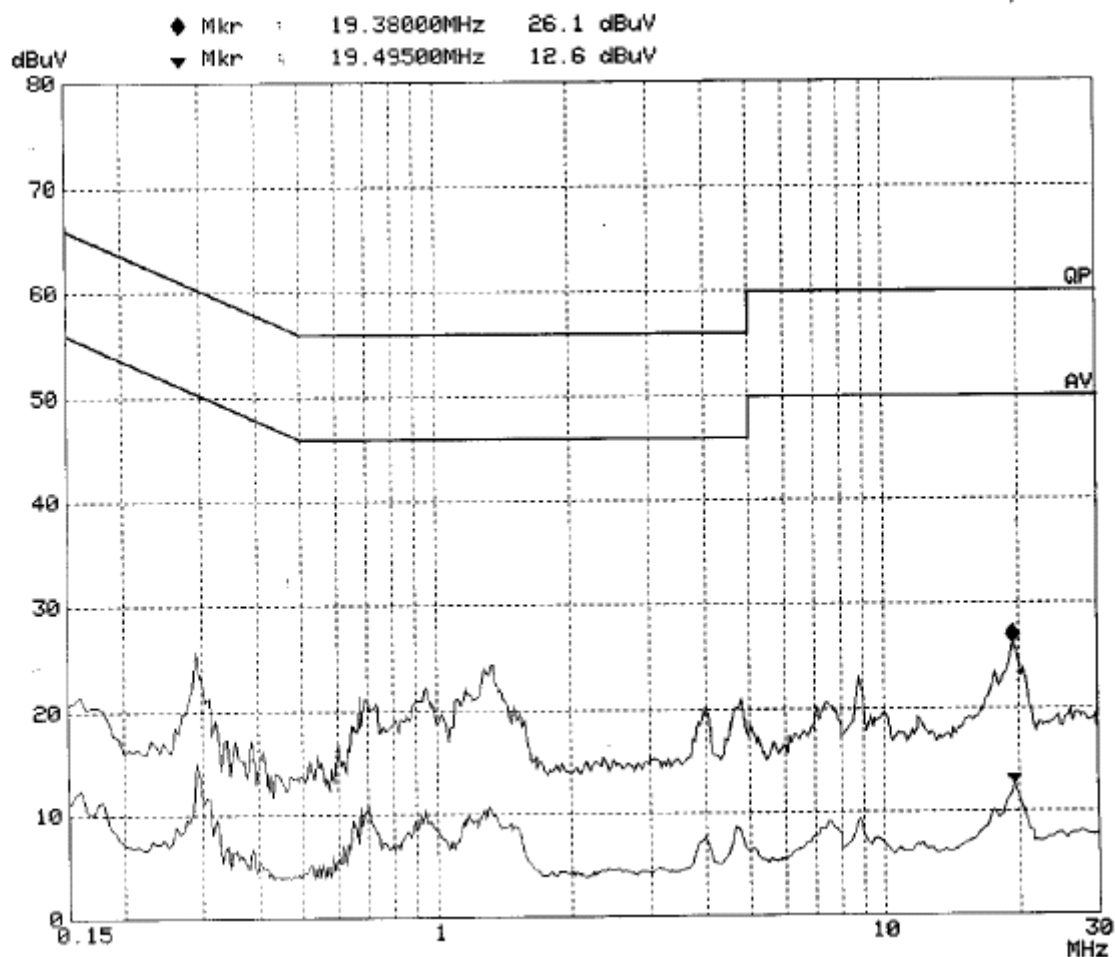
Scan Settings (1 Range)

Frequencies			Receiver Settings			
Start	Stop	Step	IF BW	Detector	M-Time	Atten Preamp
150k	30M	5k	9k	PK+AV	20ms	AUTO LN OFF

Transducer No.	Start	Stop	Name
1	9k	30M	FACTOR

Final Measurement: x QP / + AV

Meas Time: 1 s
Subranges: 25
Acc Margin: 6dB



Conducted Disturbance Test FCC Part 15

EUT: Wireless baby monitor M/N:JY-166
Manuf: JOYO
Op Cond: Running CHB
Operator: Jandy
Test Spec: AC 120V/60Hz N
Comment: Temp:27
Humi:58%
Date: 21. Sep 05 21:41

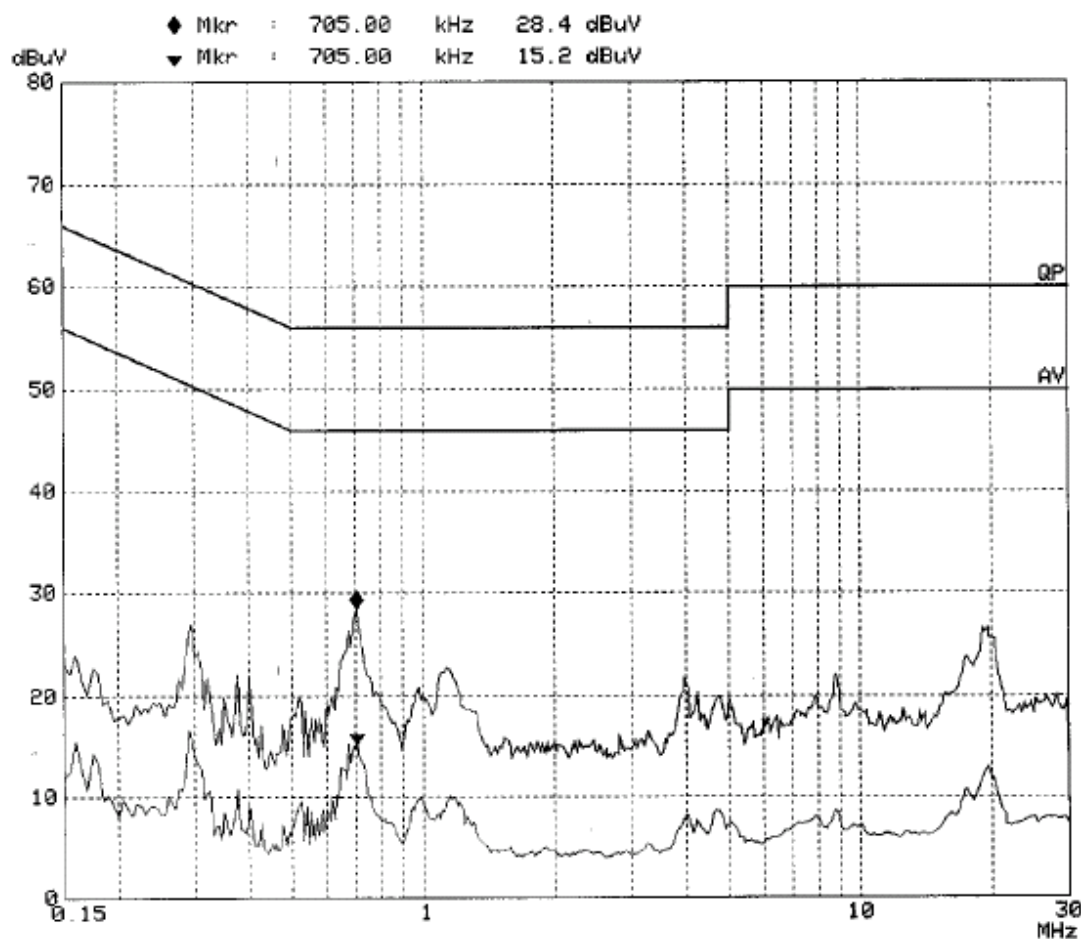
Scan Settings (1 Range)

----- Frequencies -----			----- Receiver Settings -----			
Start	Stop	Step	IF BW	Detector	M-Time	Atten Preamp
150k	30M	5k	9k	PK+AV	20ms AUTO	LN OFF

Transducer No.	Start	Stop	Name
1	9k	30M	FACTOR

Final Measurement: x QP / + AV

Meas Time: 1 s
Subranges: 25
Acc Margin: 6dB



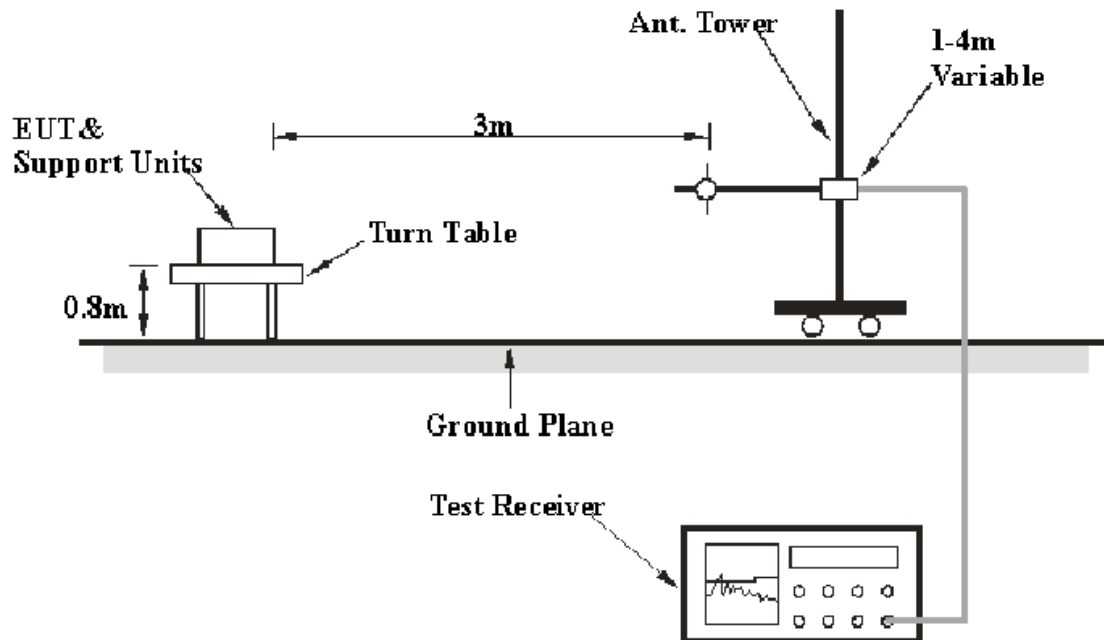
§15.209(a) §15.235(a) §15.205- RADIATED EMISSION

Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

Based on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of a radiation emissions measurement at Bay Area Compliance Lab Corp. (ShenZhen) is ± 4.4 dB.

EUT Setup



The radiated emission tests were performed in the chamber A test site, using the setup accordance with the ANSI C63.4-2003. The specification used was the FCC 15.209 and 15.235 limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

The adapter was connected to a 120 VAC/60 Hz power source.

EMI Test Receiver Setup

The system was investigated from 30 MHz to 1000 MHz.

During the radiated emission test, the EMI test receiver was set with the following configurations:

<i>Frequency Range</i>	<i>R B/W</i>	<i>Video B/W</i>	<i>IF B/W</i>
30 – 1000 MHz	100 kHz	100 kHz	120 kHz

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
HP	Amplifier	8447E	1937A01046	2005-8-17	2006-8-17
Rohde & Schwarz	EMI Test Receiver	ESCI	100035	2005-8-17	2006-8-17
Sunol Sciences	Broadband Antenna	JB1	A040904-2	2005-4-28	2006-4-28

* **Statement of Traceability:** Bay Area Compliance Lab Corp. (ShenZhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

Test Procedure

For the radiated emissions test, the adapter power cords were connected to the AC floor outlet.

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

All data was recorded in the Quasi-peak detection mode.

Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Loss and Cable Loss, and subtracting the Amplifier Gain from the Meter reading. The basic equation is as follows:

$$\text{Corr. Ampl.} = \text{Meter Reading} + \text{Antenna Loss} + \text{Cable Loss} - \text{Amplifier Gain}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Corr. Ampl.} - \text{Standard Limit}$$

Test Results Summary

According to the data in the following table, the EUT complied with the FCC Part 15.209 & 15.235, with the worst margin reading of:

Channel A: -4.60 dB at 49.83 MHz in the Horizontal polarization.
Channel B: -4.36 dB at 49.875 MHz in the Horizontal polarization.

Test Data**Environmental Conditions**

Temperature:	26°C
Relative Humidity:	55%
ATM Pressure:	1010mbar

The testing was performed by Jandy Su on 2005-9-21.

Test Mode: Transmitting

Channel A

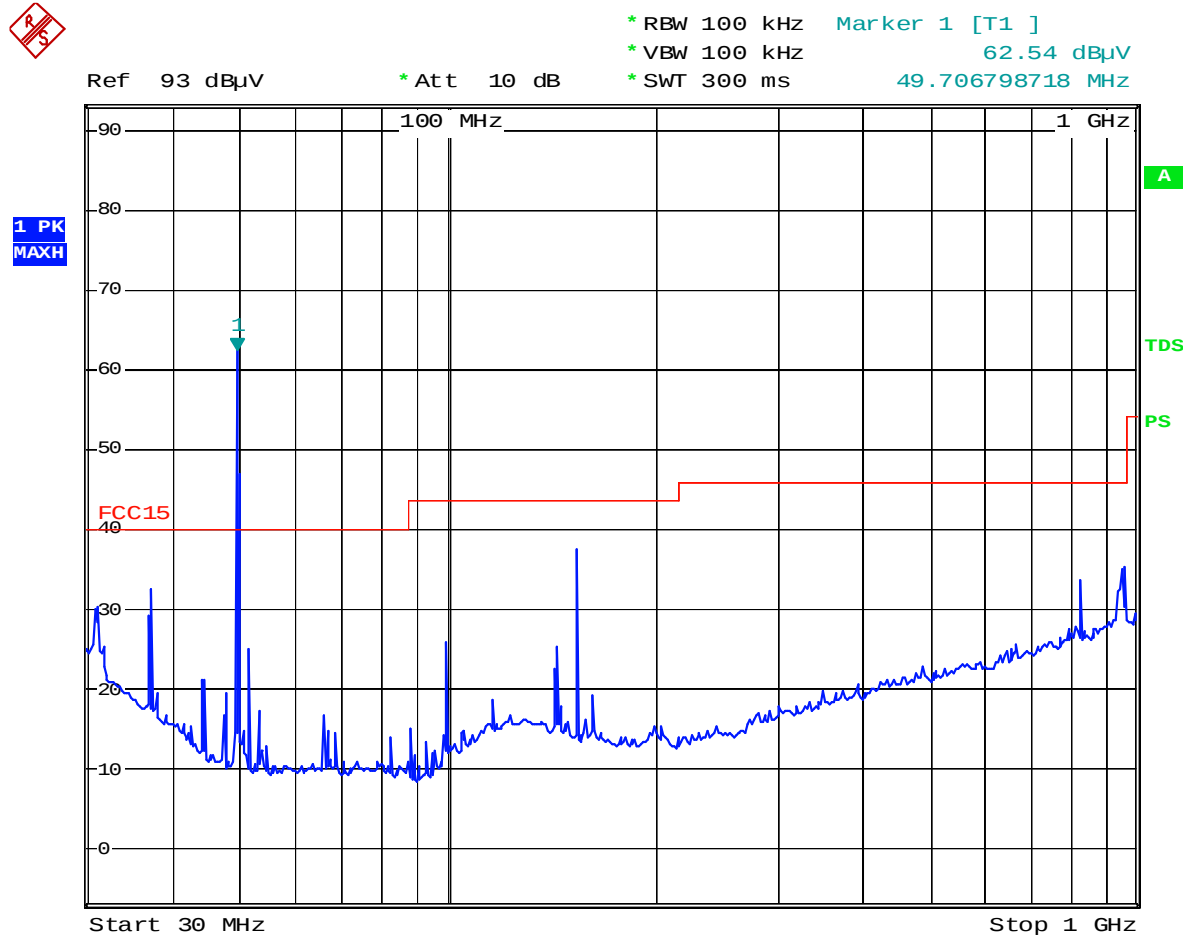
INDICATED		TABLE	ANTENNA		CORRECTION FACTOR			CORRECTED AMPLITUDE	FCC PART 15.209&15.235		
Frequency MHz	Meter Reading dBμV	Angle Degree	Height Meter	Polar H/ V	Antenna Loss dB	Cable Loss dB	Amplifier Gain dB	Corr. Ampl. dBμV/m	Limit dBμV/m	Margin dB	PK/AV
49.83	92.84	60	1.2	H	10.8	0.56	28.8	75.40	80.0	-4.60	AV (Fundamental)
30.63	35.27	270	1	H	24.1	0.56	28.8	31.13	40.0	-8.87	PK (Spurious)
66.27	46.09	60	1.2	H	8.5	0.80	28.7	26.69	40.0	-13.31	PK (Spurious)
99.53	46.85	45	1.2	H	8.2	0.93	28.6	27.38	43.5	-16.12	PK (Harmonics)
492.47	37.39	45	1.2	H	18.2	2.40	28.5	29.49	46.0	-16.51	PK (Spurious)
99.53	45.76	60	1	V	8.2	0.93	28.6	26.29	43.5	-17.21	PK (Harmonics)
49.83	78.84	90	1	V	10.8	0.56	28.8	61.40	80.0	-18.60	AV (Fundamental)
374.62	37.41	45	1.2	V	15.5	1.90	27.8	27.01	46.0	-18.99	PK (Spurious)
149.49	37.22	60	1.2	H	13.4	1.10	28.5	23.22	43.5	-20.28	PK (Harmonics)
162.61	37.47	45	1.2	V	12.7	1.10	28.3	22.97	43.5	-20.53	PK (Spurious)
116.10	37.02	60	1	V	13.3	1.10	28.5	22.92	43.5	-20.58	PK (Spurious)
66.27	38.49	60	1.2	V	8.5	0.80	28.7	19.09	40.0	-20.91	PK (Spurious)
49.83	94.18	45	1	H	10.8	0.56	28.8	76.74	100.0	-23.26	PK (Fundamental)
49.83	80.42	180	1.2	V	10.8	0.56	28.8	62.98	100.0	-37.02	PK (Fundamental)

Channel B

INDICATED		TABLE	ANTENNA		CORRECTION FACTOR			CORRECTED AMPLITUDE	FCC PART 15.209&15.235		
Frequency	Meter Reading	Angle	Height	Polar	Antenna Loss	Cable Loss	Amplifier Gain	Corr. Ampl.	Limit	Margin	PK/AV
MHz	dB μ V	Degree	Meter	H/ V	dB	dB	dB	dB μ V/m	dB μ V/m	dB	
49.875	93.08	60	1.2	H	10.8	0.56	28.8	75.64	80.0	-4.36	AV (Fundamental)
149.490	51.55	60	1	V	13.4	1.10	28.5	37.55	43.5	-5.95	PK (Harmonics)
37.290	42.89	60	1	V	17.7	0.59	28.8	32.38	40.0	-7.62	PK (Spurious)
30.210	35.51	270	1	H	24.1	0.56	28.8	31.37	40.0	-8.63	PK (Spurious)
827.490	36.47	60	1.2	V	22.1	3.30	28.2	33.67	46.0	-12.33	PK (Spurious)
66.270	46.07	60	1.2	H	8.5	0.80	28.7	26.67	40.0	-13.33	PK (Spurious)
99.660	47.01	45	1.2	H	8.2	0.93	28.6	27.54	43.5	-15.96	PK (Harmonics)
99.530	45.44	45	1.2	V	8.2	0.93	28.6	25.97	43.5	-17.53	PK (Harmonics)
144.330	39.06	45	1.2	V	13.8	1.10	28.5	25.46	43.5	-18.04	PK (Harmonics)
49.875	78.64	90	1	V	10.8	0.56	28.8	61.20	80.0	-18.8	AV (Fundamental)
344.390	37.86	45	1.2	H	14.9	1.80	27.7	26.86	46.0	-19.14	PK (Spurious)
126.330	36.68	60	1.2	H	14.4	1.10	28.5	23.68	43.5	-19.82	PK (Spurious)
49.875	94.18	45	1	H	10.8	0.56	28.8	76.74	100.0	-23.26	PK (Fundamental)
49.875	79.98	180	1.2	V	10.8	0.56	28.8	62.54	100.0	-37.46	PK (Fundamental)

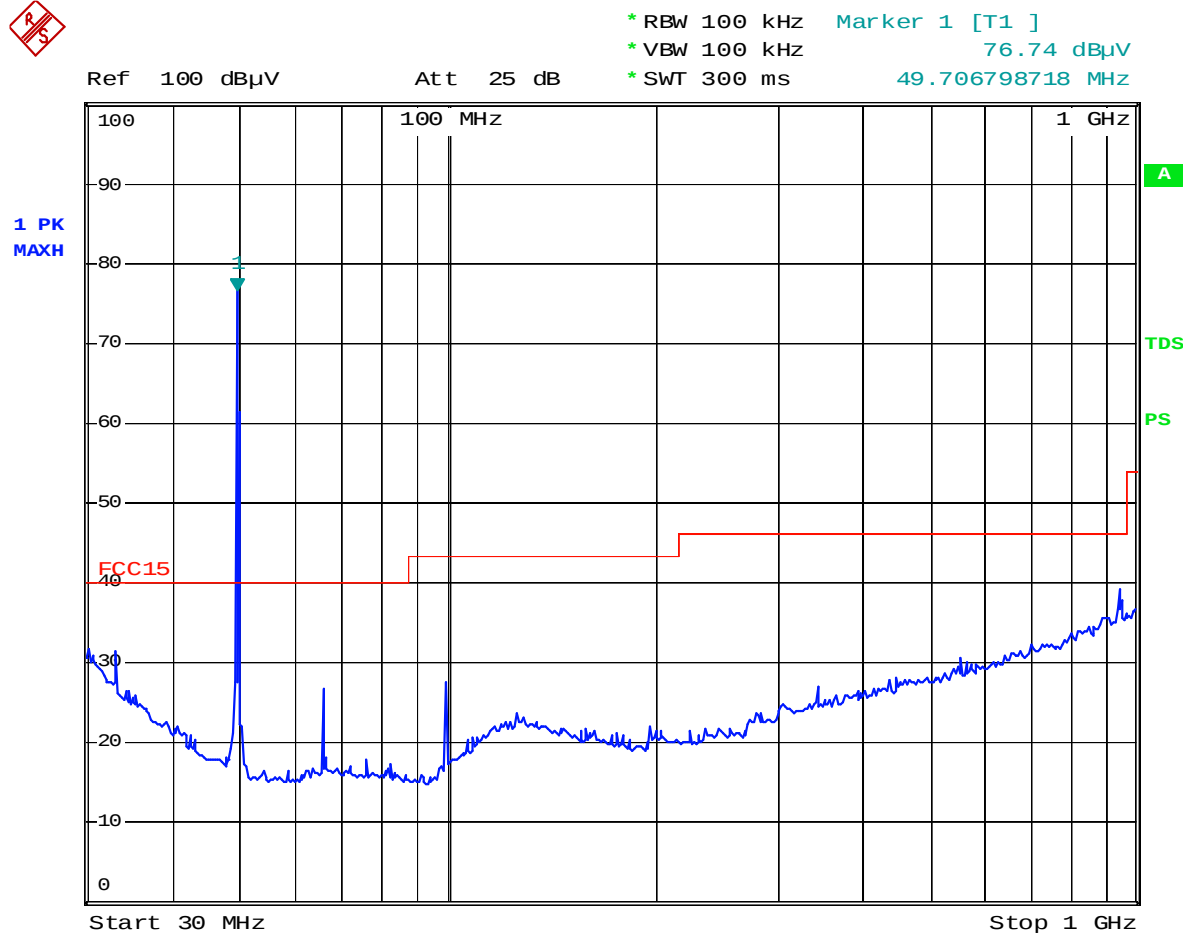
Plot(s) of Test Data

Plot(s) of Test Data is presented hereinafter as reference.



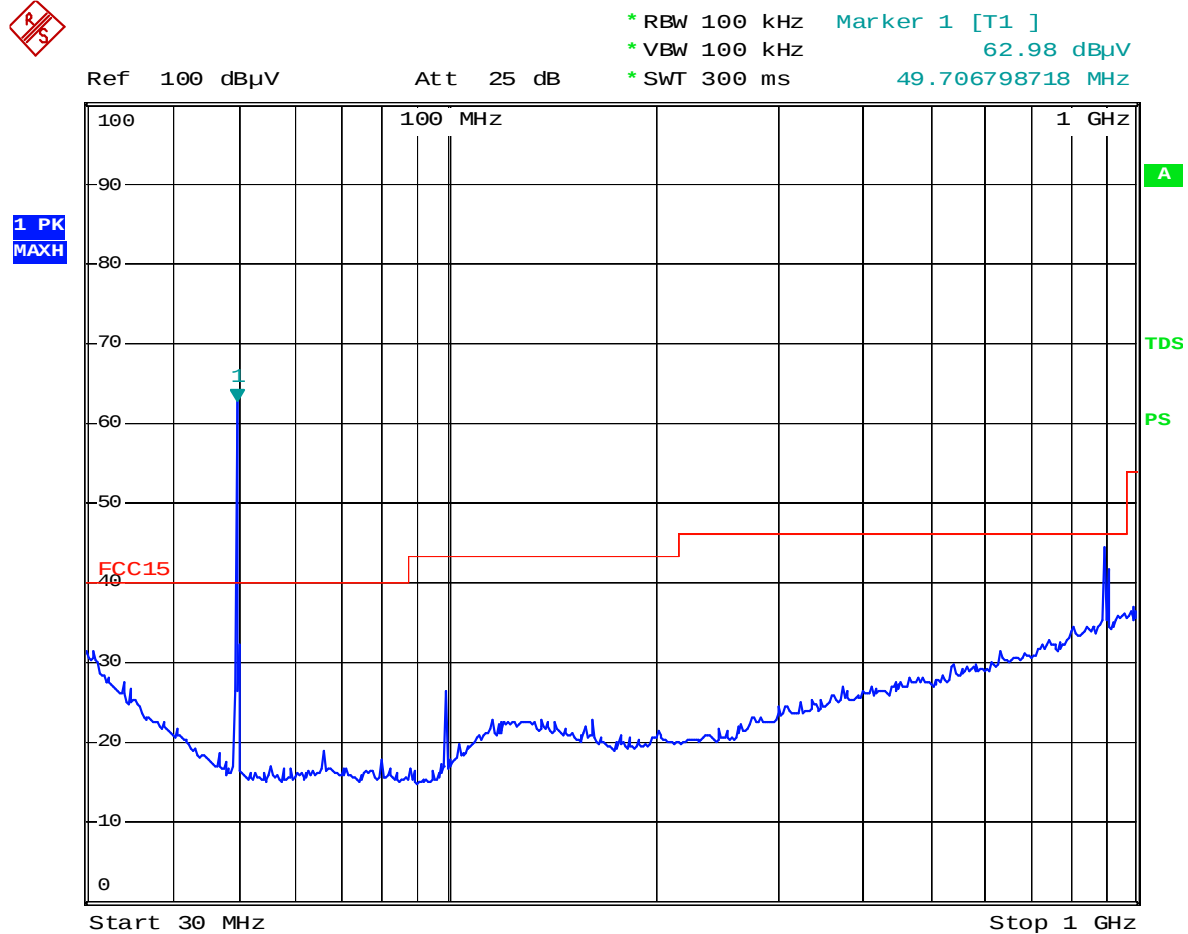
JOYO Wireless baby monitor M/N:JY-166 Horizontal

Date: 21.SEP.2005 19:46:42



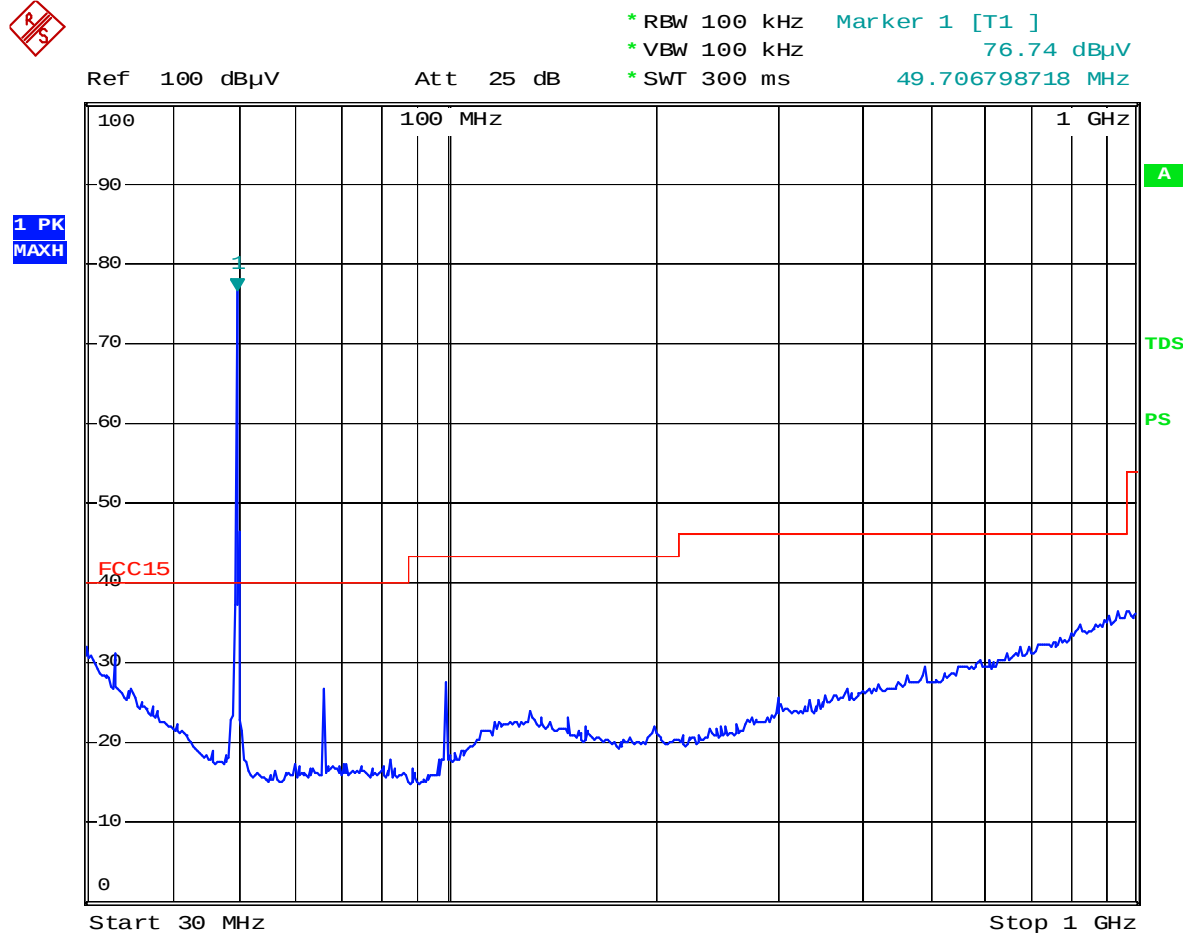
JOYO Wireless baby monitor M/N:JY-166 Vertical

Date: 21.SEP.2005 19:55:32



JOYO Wireless baby monitor M/N:JY-166 Horizontal CH B

Date: 21.SEP.2005 20:11:48



JOYO Wireless baby monitor M/N:JY-166 Vertical CH B

Date: 21.SEP.2005 20:08:55

§15.235(b) - BAND EDGES TESTING

Standard Applicable

The field strength of any emissions appearing between the band edges and up to 10 kHz above and below the band edges shall be attenuated at least 26 dB below the level of the unmodulated carrier or to the general limits in §15.209, whichever permits the higher emission levels. The field strength of any emissions removed by more than 10 kHz from the band edges shall not exceed the general radiated emission limits in §15.209. All signals exceeding 20 microvolts/meter at 3 meters shall be reported in the application for certification.

Test Procedure

With the EUT's antenna attached, the EUT's radiated emission power was received by the test antenna which was connected to the test receiver setup with the START and STOP frequencies set to the EUT's operation band and set the EUT on Unmodulate carrier working mode.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Sunol Sciences	Broadband Antenna	JB1	A040904-1	2005-4-28	2006-4-28
HP	Amplifier	8447D	2994A09795	2005-8-17	2006-8-17
Rohde& Schwarz	EMI Test Receiver	ESCS30	830245/006	2005-1-26	2006-1-26

* **Statement of Traceability:** Bay Area Compliance Lab Corp. (ShenZhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

Test Data

Environmental Conditions

Temperature:	20 °C
Relative Humidity:	55%
ATM Pressure:	1016mbar

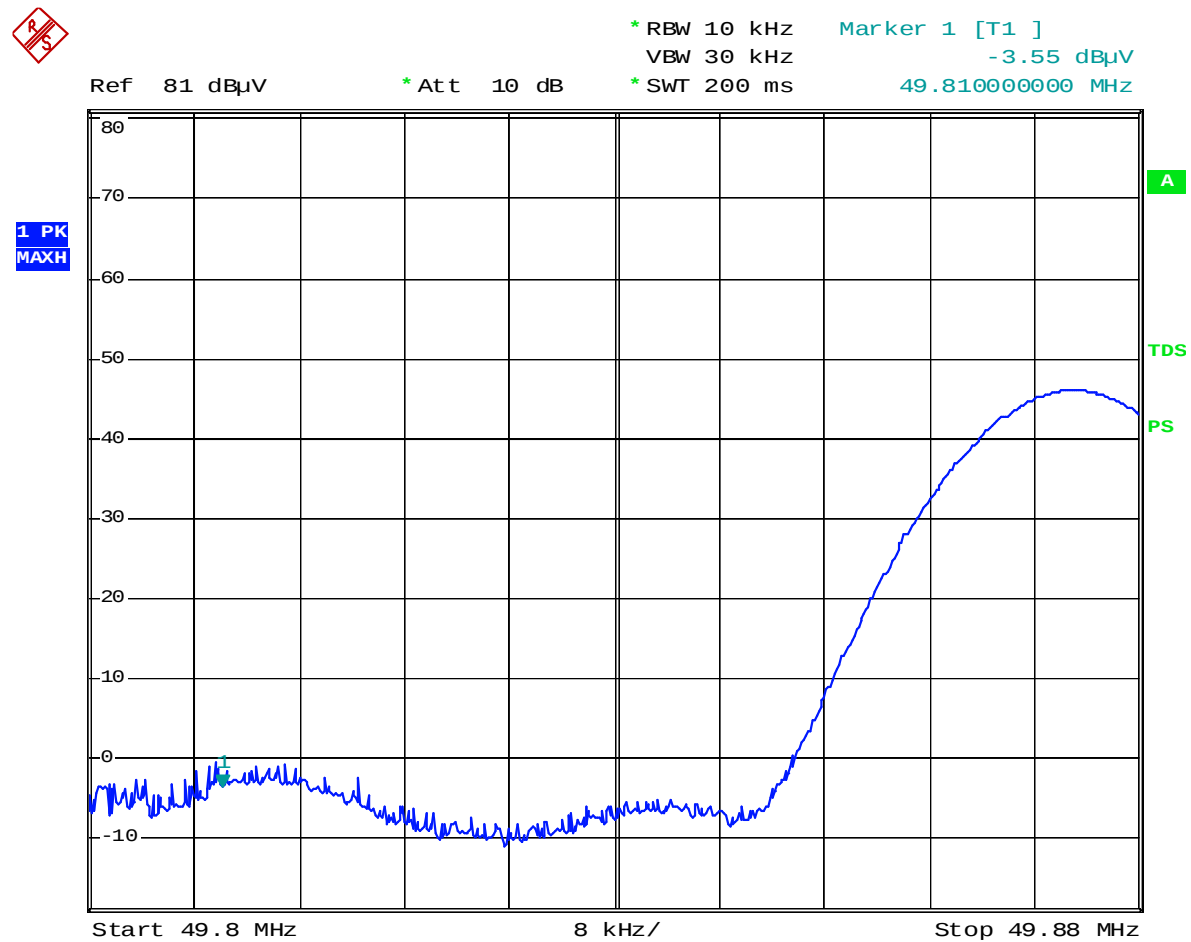
The testing was performed by Jandy Su on 2005-9-20

The result has been complied with the 15.235(b), see the following plot:

Frequency MHz	Emission dBμV/m	Limit dBμV/m	Margin dB
Channel A			
49.81MHz	-3.33	40	-36.67
49.91MHz	-6.81	40	-33.19
Channel B			
49.81MHz	4.55	40	-35.45
49.91MHz	-6.74	40	-33.26

Test plot for Channel A

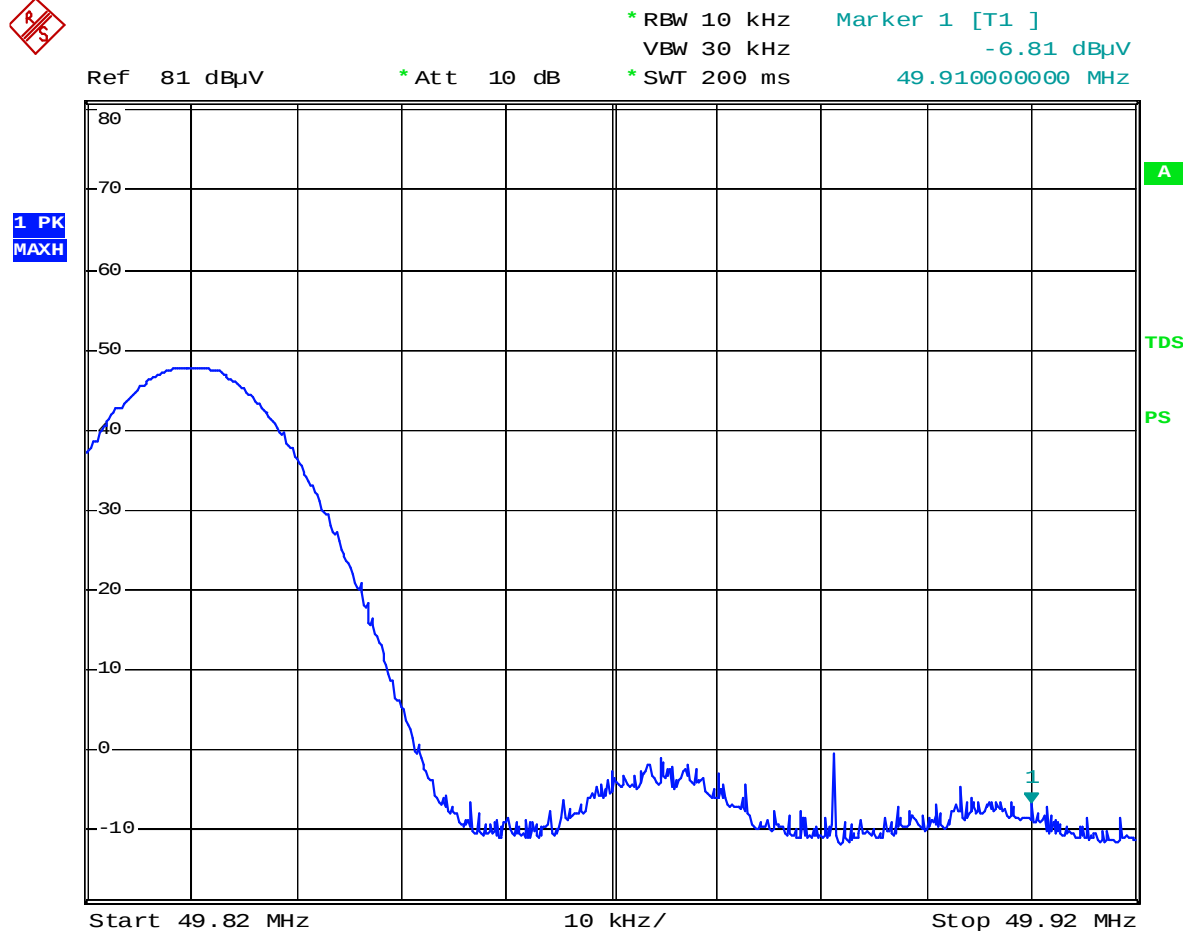
49.81 MHz:



JOYO Wireless Baby Monitor M/N:JY-166 Bandedge test

Date: 20.SEP.2005 11:59:47

49.91 MHz:

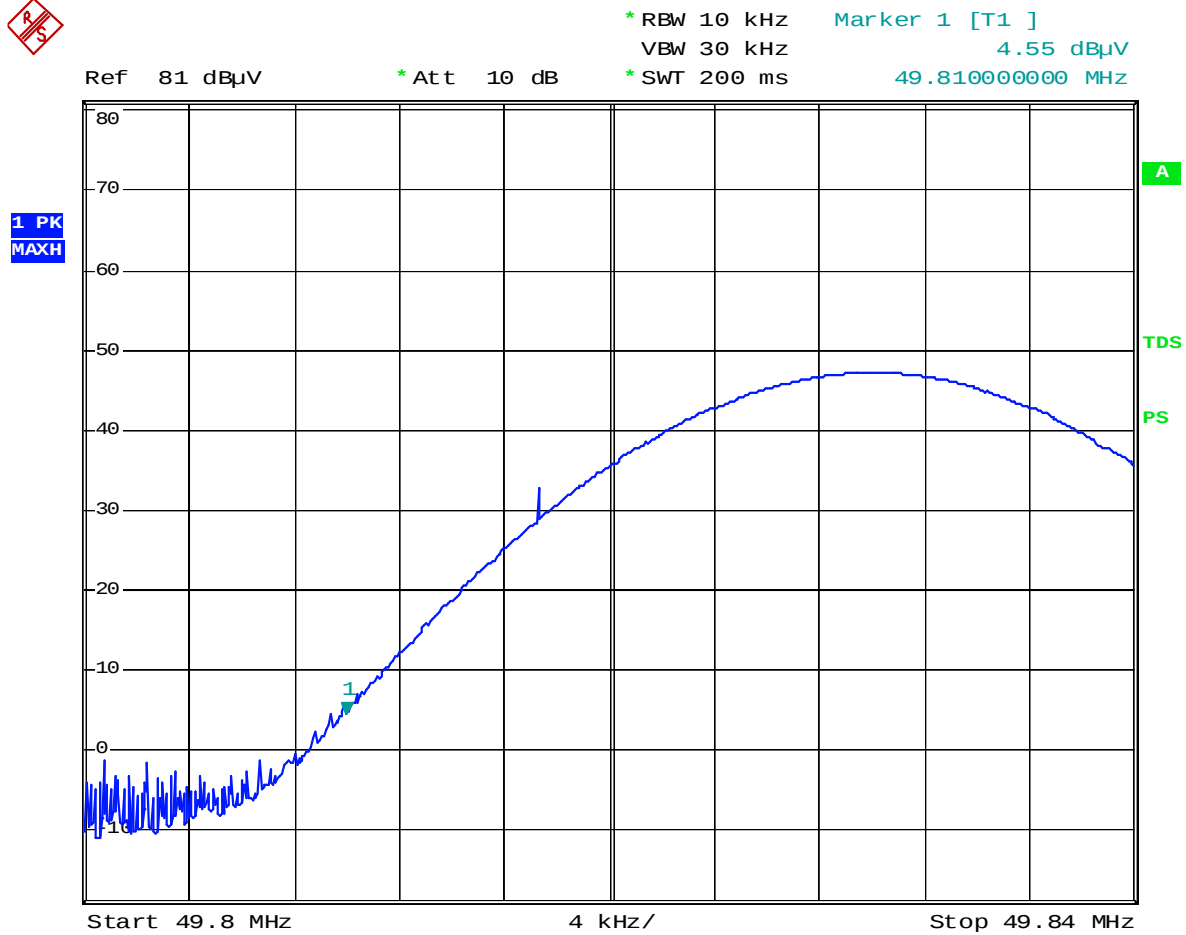


JOYO Wireless Baby Monitor M/N:JY-166 Bandedge test

Date: 20.SEP.2005 11:48:39

Test plot for Channel B

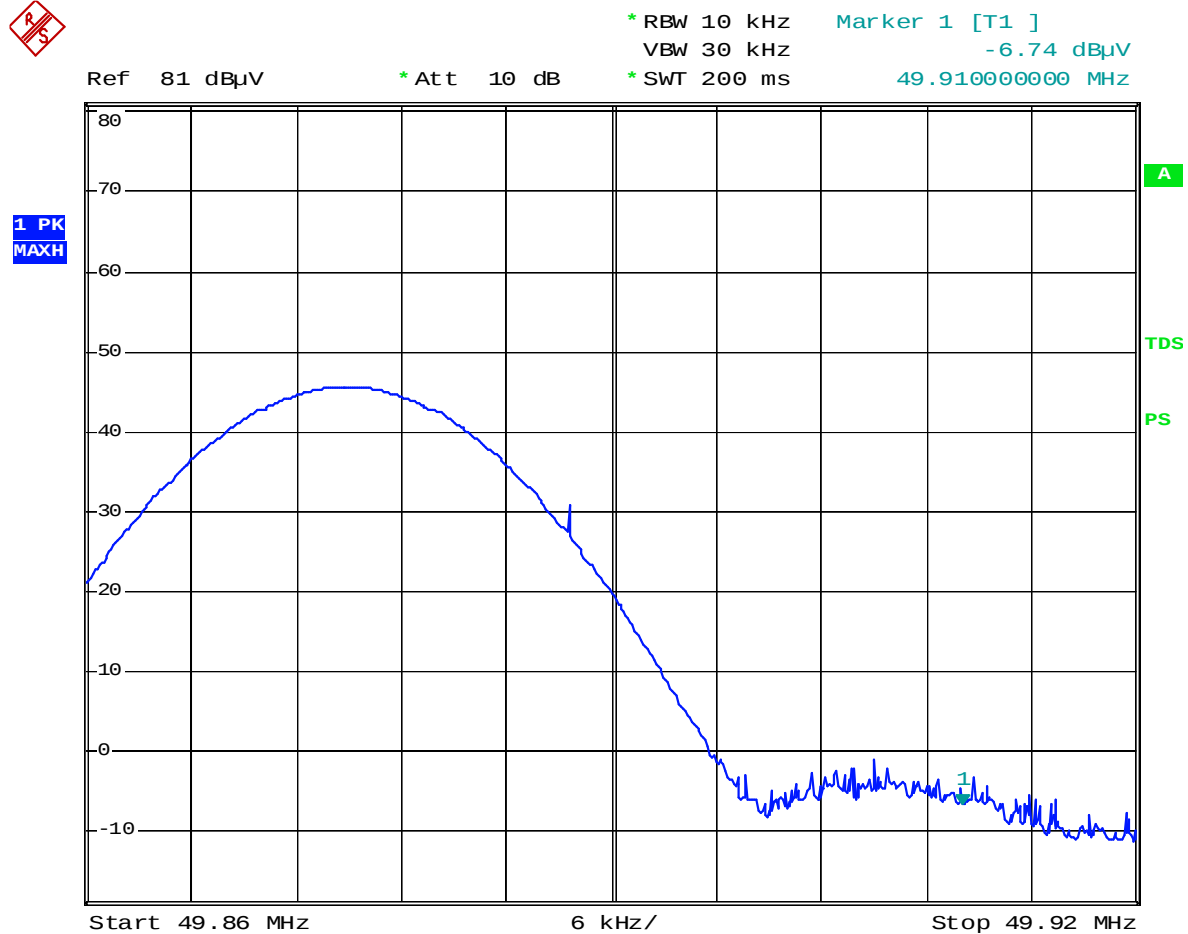
49.81 MHz:



JOYO Wireless Baby Monitor M/N:JY-166 Bandedge test

Date: 20.SEP.2005 11:37:18

49.91 MHz:



JOYO Wireless Baby Monitor M/N:JY-166 Bandedge test

Date: 20.SEP.2005 11:57:31