

APPLICATION FOR CERTIFICATION
On Behalf of

G. tech Technology Ltd.

Bluetooth Audio Adapter (Transmitter / Receiver)

Model Number: BS06

FCC ID: OO9BS06

Prepared for : G. tech Technology Ltd.
No.21, Jinding Industrial Park, West Jinfeng Road,
Tangjiawan Town, Xiangzhou District Zhuhai
Guangdong China

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

Tel: (0755) 26639496

Report Number : ACS-F08343
Date of Test : Jul.09~29, 2008
Date of Report : Jul.29, 2008

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TEST REPORT CERTIFICATION

Applicant : G. tech Technology Ltd.
 Manufacturer : G. tech Technology Ltd.
 EUT Description : Bluetooth Audio Adapter (Transmitter / Receiver)
 FCC ID : 009BS06
 (A) MODEL NO. : BS06
 (B) SERIAL NO. : N/A
 (C) POWER SUPPLY : DC 3.7V
 (D) TEST VOLTAGE : DC 5V From Adapter AC 120V/60Hz

Test Procedure Used:

FCC Rules and Regulations Part 15 Subpart C 2007

The device described above is tested by AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C limits both radiated and conducted emissions.

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. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

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.

Date of Test: Jul.09~29, 2008

Prepared by:

Edie Huang
Edie Huang / Assistant

Reviewer:

Jamy Yu
Jamy Yu / Senior Engineer

Approved & Authorized Signer:



Ken Lu / Deputy Manager

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.

Description of Test Item	Standard	Results
Conducted Emission Test	FCC Part 15: 15.207 ANSI C63.4: 2003 DA 00-705	PASS
Radiated Emission Test	FCC Part 15: 15.209 ANSI C63.4: 2003 DA 00-705	PASS
Carrier Frequency Separation Test	FCC Part 15: 15.247(a)(1) DA 00-705	PASS
20 dB Bandwidth Test	FCC Part 15: 15.247(a)(1) DA 00-705	PASS
Number Of Hopping Frequency Test	FCC Part 15: 15.247(a)(1)(iii) DA 00-705	PASS
Dwell Time Test	FCC Part 15: 15.247(a)(1)(iii) DA 00-705	PASS
Maximum Peak Output Power Test	FCC Part 15: 15.247(b)(1) DA 00-705	PASS
Band Edge Compliance Test	FCC Part 15: 15.247(d) DA 00-705	PASS
Antenna requirement	FCC Part 15: 15.203	PASS
N/A is an abbreviation for Not Applicable.		

2. GENERAL INFORMATION

2.1. Description of Device (EUT)

Description	:	Bluetooth Audio Adapter (Transmitter / Receiver)
Model Number	:	BS06
FCC ID	:	OO9BS06
Operation Frequency	:	2.402GHz-----2.480GHz ISM Band
Radio Technology	:	Bluetooth V1.2
Operation Channel	:	79Channels
Modulation Technology	:	GFSK
Bluetooth Chipset	:	BC352239, BC03 multimedia external
Output Power	:	3.66dBm (maximum measured)
Antenna Assembly Gain	:	2dBi (maximum)
Test VOLTAGE	:	DC 5V From Adapter AC 120V/60Hz (See Note)
Applicant	:	G. tech Technology Ltd. No.21, Jinding Industrial Park, West Jinfeng Road, Tangjiawan Town, Xiangzhou District Zhuhai Guangdong China
Manufacturer	:	G. tech Technology Ltd. No.21, Jinding Industrial Park, West Jinfeng Road, Tangjiawan Town, Xiangzhou District Zhuhai Guangdong China
Power Adapter	:	Manufacturer: Ktec M/N: KSUFB0500070W1US Cable: Unshielded, Detachable, 1.5m
Date of Test	:	Jul.09~13, 2008
Date of Receipt	:	Jul.08, 2008
Sample Type	:	Prototype production
Note: This EUT can be powered by internal 3.7V battery or powered by external DC 5V From adapter. In exploratory test when powered by external adapter the EUT produce the emissions with the highest amplitude. So all the final test were performed with EUT powered by external power adapter.		

2.2. 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 : Jun. 13, 2006 File on Federal Communication
Commission
Registration Number: 90454
- 3m & 10m Anechoic Chamber : Jan. 31, 2007 File on Federal Communication
Commission
Registration Number: 794232
- EMC Lab. : Accredited by DATech, German
Registration Number: DAT-P-091/99-01
Dec. 20, 2007
- Accredited by NVLAP, USA
NVLAP Code: 200372-0
Apr. 01, 2008

2.3. Measurement Uncertainty

No.	Item	MU	Remark
1.	Uncertainty for Conducted Emission Test	2.02dB	
2.	Uncertainty for Radiation Emission test in 3m chamber	3.44 dB	Polarize: V
		3.96 dB	Polarize: H
3.	Uncertainty for Radiation Emission test in 10m chamber	3.46 dB	Distance: 10m Polarize: V
		3.82 dB	Distance: 10m Polarize: H
		3.64 dB	Distance: 3m Polarize: V
		4.02 dB	Distance: 3m Polarize: H
4.	RF frequency	$\pm 0.5 \times 10^{-7}$	
5.	RF power, conducted	± 3 dB	

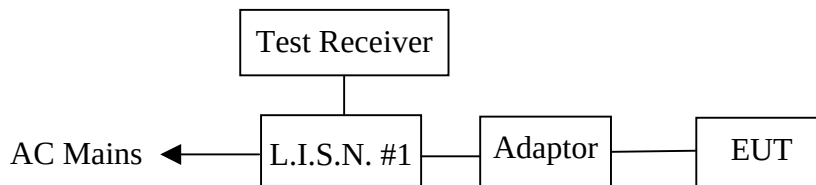
3. POWER LINE CONDUCTED EMISSION TEST

3.1.Test Equipments

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESHS10	844077/020	Mar.07, 08	1 Year
2.	L.I.S.N.#1	Rohde & Schwarz	ESH2-Z5	834066/011	May 10, 08	1 Year
3.	Terminator	Hubersuhner	50Ω	No. 1	May 10,08	1 Year
4.	Terminator	Hubersuhner	50Ω	No. 2	May 10,08	1 Year
5.	RF Cable	Fujikura	3D-2W	LISN Cable 1#	Jan.09, 08	1/2 Year
6.	Coaxial Switch	Anritsu	MP59B	M55367	Jan.09, 08	1/2 Year
7.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100340	Jan.09,08	1/2 Year

3.2.Block Diagram of Test Setup

3.2.1.Block diagram of connection between the EUT and simulators



(EUT: Bluetooth Audio Adapter (Transmitter / Receiver))

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. Bluetooth Audio Adapter (Transmitter / Receiver) (EUT)

Model Number : BS06

Serial Number : N/A

3.5. Operating Condition of EUT

3.5.1. Setup the EUT and simulator as shown as Section 3.2.

3.5.2. Turned on the power of all equipment.

3.5.3. Let the EUT worked in test mode (TX) and measured 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). Please refer the block diagram of the test setup and photographs. Power on the PC and let it work normally, we use a keyboard test software, let EUT working in test mode, then test it. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC Part 15C on Conducted Emission Test.

The bandwidth of test receiver (R & S ESHS10) is set at 10kHz.

The frequency range from 150kHz to 30MHz is checked.

The test results are reported on Section 3.7.

3.7. Power Line Conducted Emission Test Results

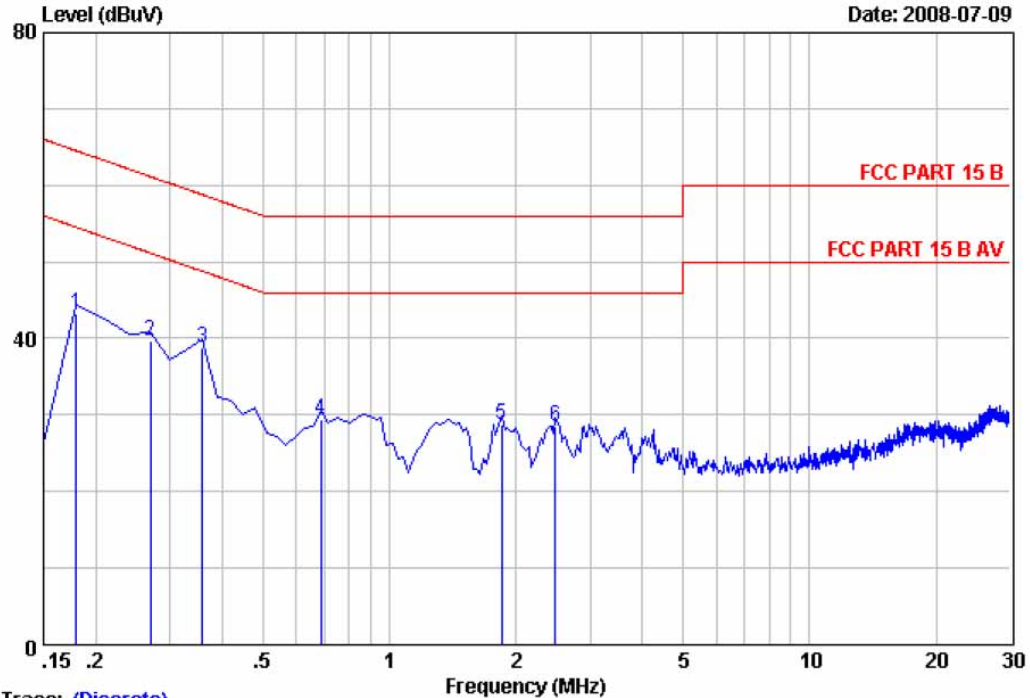
PASS.



NO.6 Ke Feng Road,Block 52,
Shenzhen Science&Industry Park
Nantou, Shenzhen,Guang dong, China.
Tel:+86-755-26639495
Fax:+86-755-26632877
Postcode:518057

Data: 1 File: D:\emc 002\DATA\2008 Report\B\ACS8Q929.EMI (2)

Date: 2008-07-09



Trace: (Discrete)

Site no :Audix No.1 Conduction Data no :1
Dis./Ant. :-- KNW407 1# VA LISN phase:
Limit :FCC PART 15 B
Env./Ins. :29.5°C/55% ESHS 10SHS 10 Engineer :Sunny
EUT :Bluetooth Audio Adapter M/N:BS06
Power Rating :DC 5V From Adapter AC120V/60Hz
Test Mode :Tx Mode

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.18	0.29	10.15	32.86	43.30	64.49	21.19	QP
2	0.27	0.27	10.15	29.29	39.71	61.14	21.43	QP
3	0.36	0.24	10.14	28.44	38.82	58.75	19.93	QP
4	0.69	0.20	10.14	19.16	29.50	56.00	26.50	QP
5	1.85	0.10	10.15	18.56	28.81	56.00	27.19	QP
6	2.48	0.10	10.16	18.33	28.59	56.00	27.41	QP

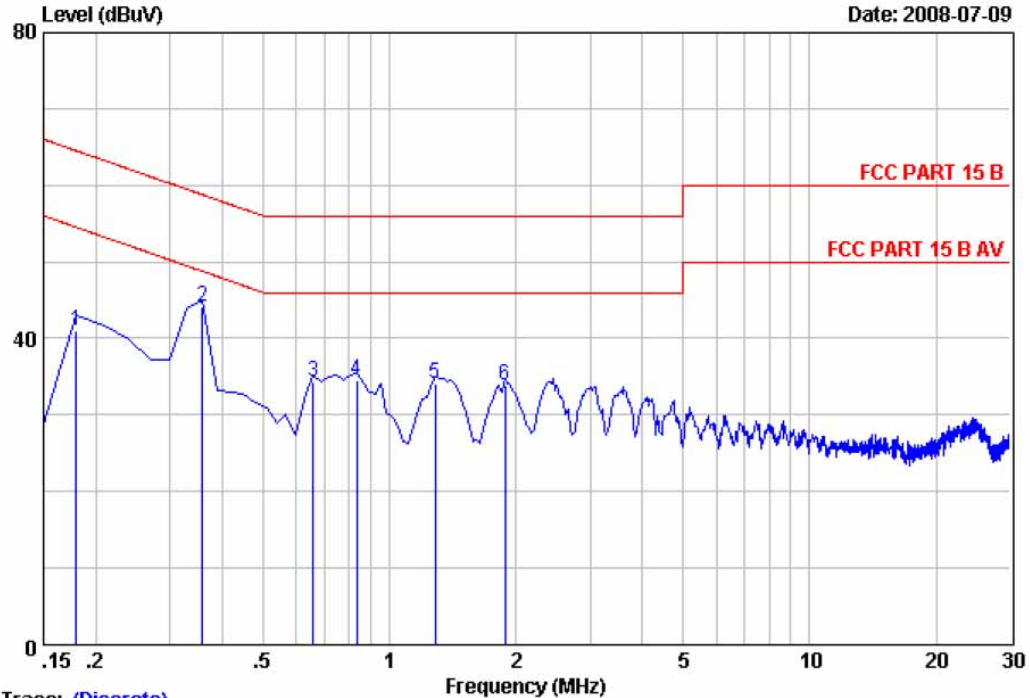
Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.
2.If the average limit is met when using a quasi-peak detector.
the EUT shall be deemed to meet both limits and measurement
with average detector is unnecessary.



NO.6 Ke Feng Road,Block 52,
Shenzhen Science&Industry Park
Nantou, Shenzhen,Guang dong, China.
Tel:+86-755-26639495
Fax:+86-755-26632877
Postcode:518057

Data: 2 File: D:\emc 002\DATA\2008 Report\B\ACS8Q929.EMI (2)

Date: 2008-07-09



Trace: (Discrete)

Site no :Audix No.1 Conduction Data no :2
Dis./Ant. :-- KNW407 1# VB LISN phase:
Limit :FCC PART 15 B
Env./Ins. :29.5°C/55% ESHS 10SHS 10 Engineer :Sunny
EUT :Bluetooth Audio Adapter M/N:BS06
Power Rating :DC 5V From Adapter AC120V/60Hz
Test Mode :Tx Mode
Memo :Transmitter

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.18	0.15	10.15	30.67	40.97	64.49	23.52	QP
2	0.36	0.16	10.14	33.73	44.03	58.75	14.72	QP
3	0.66	0.12	10.14	24.03	34.29	56.00	21.71	QP
4	0.84	0.10	10.14	24.23	34.47	56.00	21.53	QP
5	1.28	0.07	10.15	23.79	34.01	56.00	21.99	QP
6	1.88	0.04	10.15	23.68	33.87	56.00	22.13	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

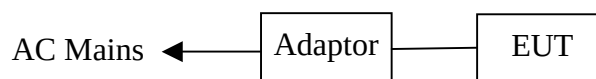
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	3#Chamber	AUDIX	N/A	N/A	Jun 09,08	1/2 Year
2.	EMI Spectrum	Agilent	E7403A	MY42000106	May 10, 08	1 Year
3.	Test Receiver	Rohde & Schwarz	ESVS20	830350/005	May 10, 08	1 Year
4.	Amplifier	HP	8447D	2648A04738	Jan 09, 08	1/2 Year
5.	Bilog Antenna	Schaffner	CBL6112D	25237	Feb 21, 08	1 Year
6.	RF Cable	JINGCHENG	KLMR400	3# Chamber No.1	Jan 09, 08	1/2 Year
7.	RF Cable	JINGCHENG	JBV400	3# Chamber No.2	Jan 09, 08	1/2 Year
8.	RF Cable	JINGCHENG	JBV400	3# Chamber No.3	Jan 09, 08	1/2 Year
9.	RF Cable	JINGCHENG	JBV400	3# Chamber No.4	Jan 09, 08	1/2 Year
10.	Coaxial Switch	Anritsu	MP59B	M73989	Jan 09, 08	1/2 Year

Frequency rang: above 1000MHz

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	E4446A	MY41440292	May 10, 08	1 Year
2.	Amp	HP	8449B	3008A00863	May 10, 08	1 Year
3.	Antenna	EMCO	3115	9607-4877	May 27, 08	1.5 Year
4.	Antenna	EMCO	3116	00060088	May 28, 07	1.5Year
5.	HF Cable	Hubersuhne	Sucoflex104	-	May 10, 08	1 Year

4.2. Block Diagram of Test Setup

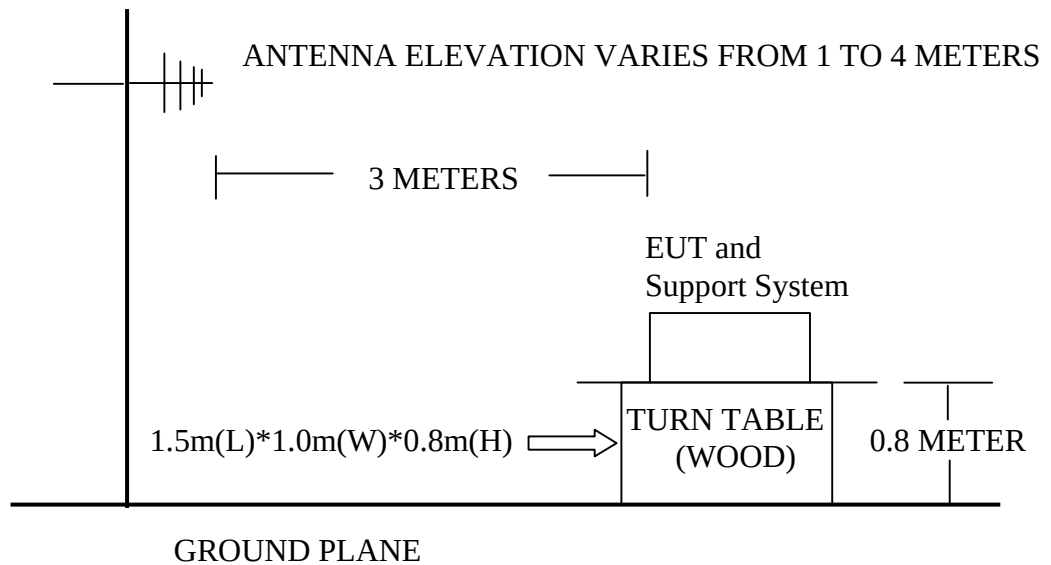
4.2.1. Block diagram of connection between the EUT and simulators



(EUT: Bluetooth Audio Adapter (Transmitter / Receiver))

4.2.2. In Anechoic Chamber

ANTENNA TOWER



4.3. Radiated Emission Limit

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		$\mu\text{V/m}$	$\text{dB}(\mu\text{V})/\text{m}$
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 1000	3	74.0 dB (μV)/m (Peak) 54.0 dB (μV)/m (Average)	

- Remark :
- (1) Emission level $\text{dB}\mu\text{V} = 20 \log$ Emission level $\mu\text{V/m}$
 - (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.

4.4. 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.

4.4.1. Bluetooth Audio Adapter (Transmitter / Receiver) (EUT)

Model Number : BS06
Serial Number : N/A

4.5.Operating Condition of EUT

4.5.1.Setup the EUT as shown in Section 4.2..

4.5.2.Turned on the power of all equipment.

4.5.3.Let the EUT work in test modes (TX Mode) and test it.

4.6.Test Procedure

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. Power on the EUT and let it work normally, we use a keyboard test soft ware, let EUT working in test mode, then test it. 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 are set on test.

The Adapter's supply Voltage was varied between 85% and 115% of the nominal rated(120V/60Hz) supply voltage. and all the emissions include fundamental emissions had no change. So only the nominal power supply test data were recorded.

The bandwidth of the EMI test receiver (R&S ESVS20) is set at 120kHz for frequency range from 30MHz to 1000 MHz.

For peak emission measurement above 1GHz use peak detector and 1MHz RBW/VBW.

For average measurements above 1GHz use peak detector and 1MHz RBW and 10Hz VBW.

The frequency ranges from 30MHz to 10thharmonic (25GHz) are checked.

4.7.Radiated Emission Test Results

PASS.

All the emissions from 30MHz~18GHz are comply with 15.209 limit.

All the emissions from 18GHz~25GHz are Peak measured and comply with Average limit.

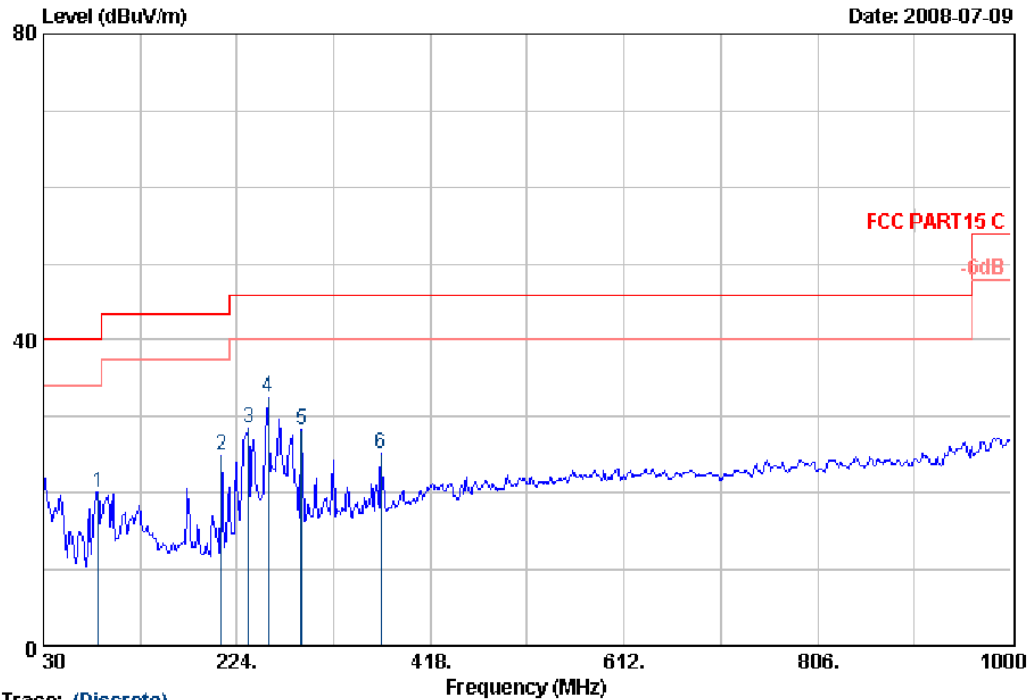
Test Frequency: 30MHz-1000MHz



No.6 Ke Feng Road,B1:ck 52,
ShenZhen Science & Industry Park
Noutou,ShenZhen, GuangDong, China
Tel:+86-755-26639495
Fax:+86-755-26632877
Postcode:518057

Data: 2 File: D:\2008 Report Data\Z\ZHIDI\ACS80929.EMI (4)

Date: 2008-07-09



Trace: (Discrete)

Site no. : 3# Chamber Radiation Data no. : 2
Dis. / Ant. : 3m CEL6112D Ant. pol. : HORIZONTAL
Limit : FCC PART15 B
Env. / Ins. : 24°C/56% ESVS20 Engineer : LONGE
EUT : Bluetooth Audio Adapter
Power Rating : DC 5V Adapter From AC 120V/60Hz
Test Mode : TX

		Ant.	Cable		Emission			
	Freq.	Factor	Loss	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	85.29	8.30	0.68	11.18	20.16	40.00	19.84	QP
2	208.48	9.21	1.07	14.74	25.02	43.50	18.48	QP
3	235.64	10.63	1.18	16.64	28.45	46.00	17.55	QP
4	255.04	13.06	1.25	18.13	32.44	46.00	13.56	QP
5	288.99	12.80	1.33	14.10	28.23	46.00	17.77	QP
6	368.53	14.57	1.50	9.15	25.22	46.00	20.78	QP

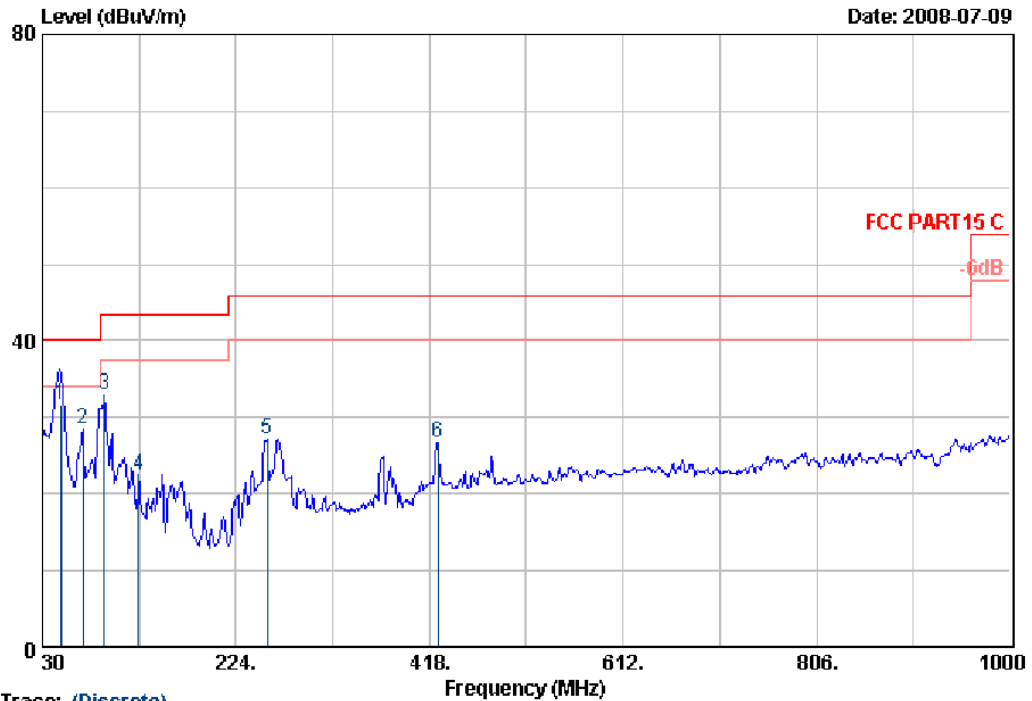
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



No.6 Ke Feng Road,B1:ck 52,
ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495
Fax:+86-755-26632877
Postcode:518057

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Trace: (Discrete)

Site no. : 3# Chamber Radiation Data no. : 1
Dis. / Ant. : 3m CBL6112D Ant. pol. : VERTICAL
Limit : FCC PART15 B
Env. / Ins. : 24°C/56% ESVS20 Engineer : LONGE
EUT : Bluetooth Audio Adapter
Power Rating : DC 5V Adapter From AC 120V/60Hz
Test Mode : TX

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	48.37	9.18	0.54	22.00	31.72	40.00	8.28	QP
2	70.74	6.45	0.62	21.48	28.55	40.00	11.45	QP
3	92.08	9.63	0.73	22.69	33.05	43.50	10.45	QP
4	126.03	12.49	0.84	9.16	22.49	43.50	21.01	QP
5	255.04	13.06	1.25	12.78	27.09	46.00	18.91	QP
6	426.73	16.76	1.64	8.42	26.82	46.00	19.18	QP

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

Test Frequency: 1GHz-18GHz

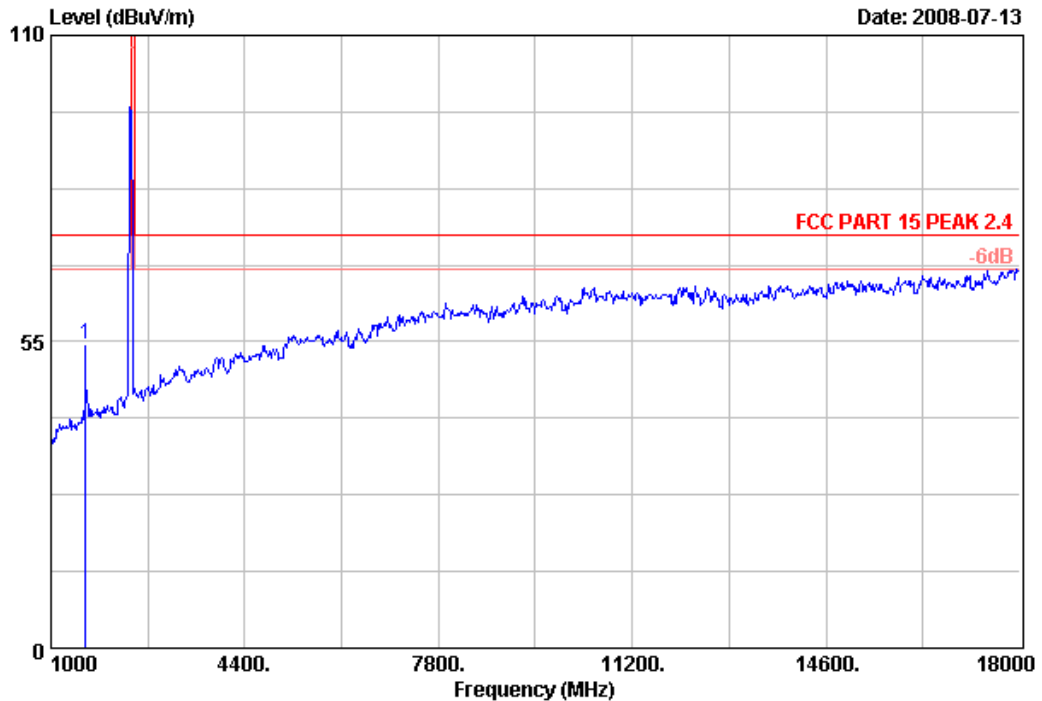


No.6 Ke Feng Road,B1;ck 52,
ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

Data: 1

File: D:\2008 report data\G\G.tech\ACS8Q929.EMI (18)

Date: 2008-07-13



Site no. : 3# Chamber Data no. : 1
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
Limit : FCC PART 15 PEAK 2.4
Env. / Ins. : 23°C/54% Engineer : Power
EUT : Bluetooth Audio Adapter
Power Rating: DC 5V from Adaptor AC 120V/60Hz
Test Mode : Bluetooth Tx 2402MHz
M/N:BS06

		Ant.	Cable	Amp	Emission				
Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	1602.00	25.91	5.46	35.66	58.95	54.66	74.00	19.34	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.

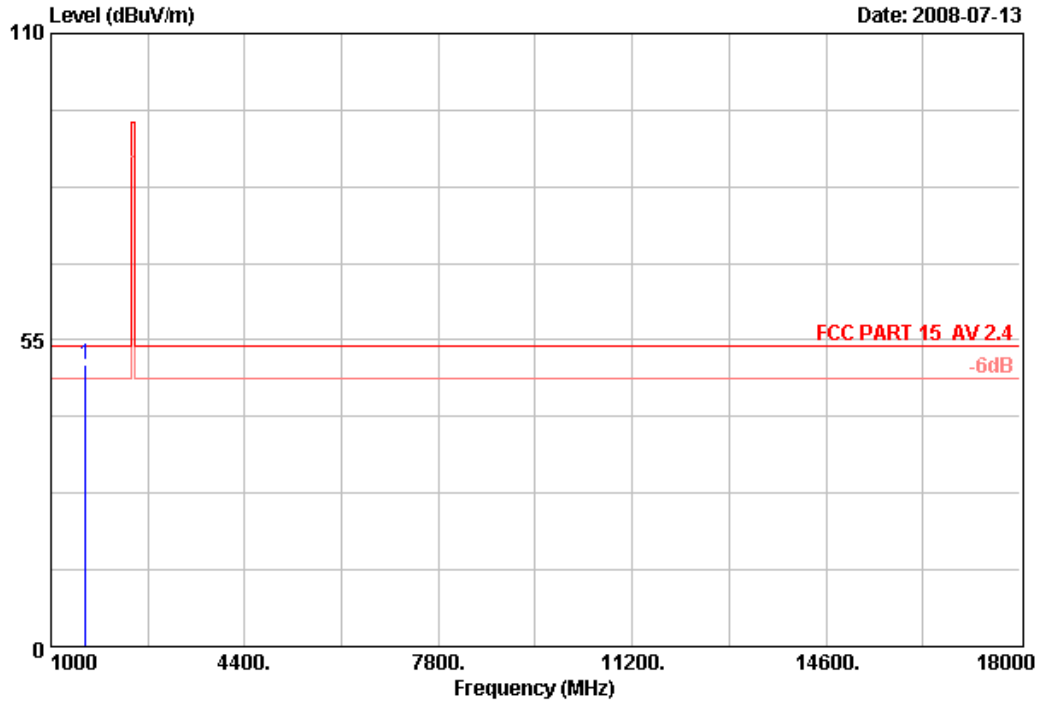


No.6 Ke Feng Road,B1;ck 52,
ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

Data: 2

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Date: 2008-07-13



Site no. : 3# Chamber Data no. : 2
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
Limit : FCC PART 15 AV 2.4
Env. / Ins. : 23°C/54% Engineer : Power
EUT : Bluetooth Audio Adapter
Power Rating: DC 5V from Adaptor AC 120V/60Hz
Test Mode : Bluetooth Tx 2402MHz
M/N:BS06

		Ant.	Cable	Amp	Emission				
Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1 1602.00	25.91	5.46	35.66	54.87	50.58	54.00	3.42	Average	

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.

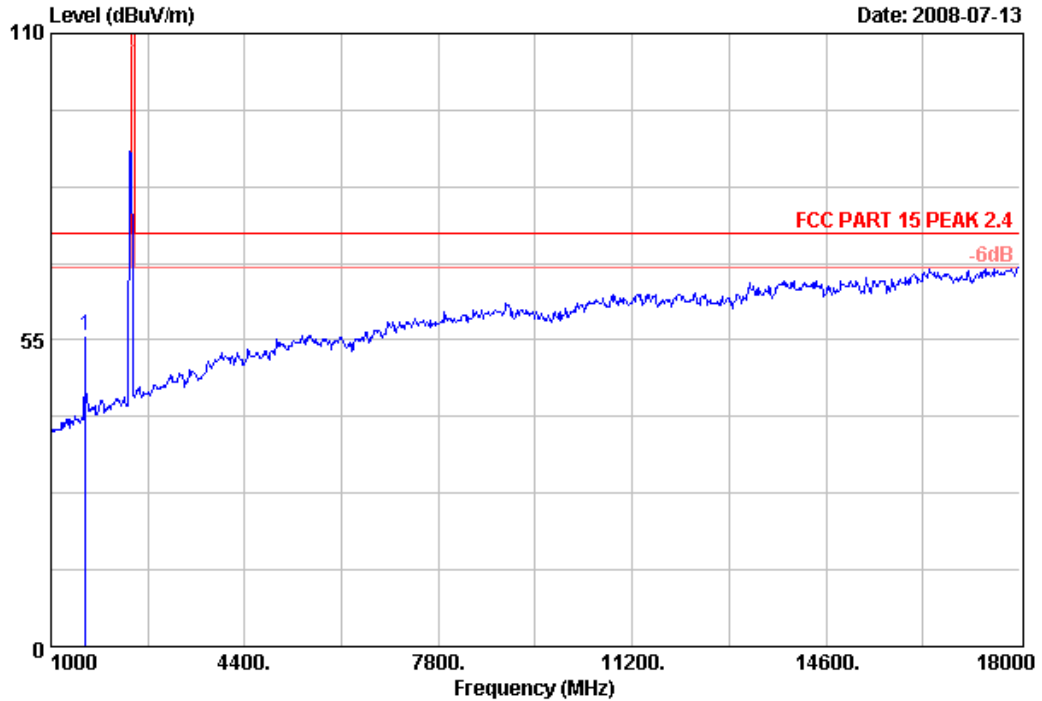


No.6 Ke Feng Road,B1;ck 52,
ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
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Postcode:518057

Data: 3

File: D:\2008 report data\G\G.tech\ACS80929.EMI (18)

Date: 2008-07-13



Site no. : 3# Chamber Data no. : 3
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
Limit : FCC PART 15 PEAK 2.4
Env. / Ins. : 23°C/54% Engineer : Power
EUT : Bluetooth Audio Adapter
Power Rating: DC 5V from Adaptor AC 120V/60Hz
Test Mode : Bluetooth Tx 2402MHz
M/N:BS06

		Ant.	Cable	Amp		Emission			
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	1602.00	25.91	5.46	35.66	60.16	55.87	74.00	18.13	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.

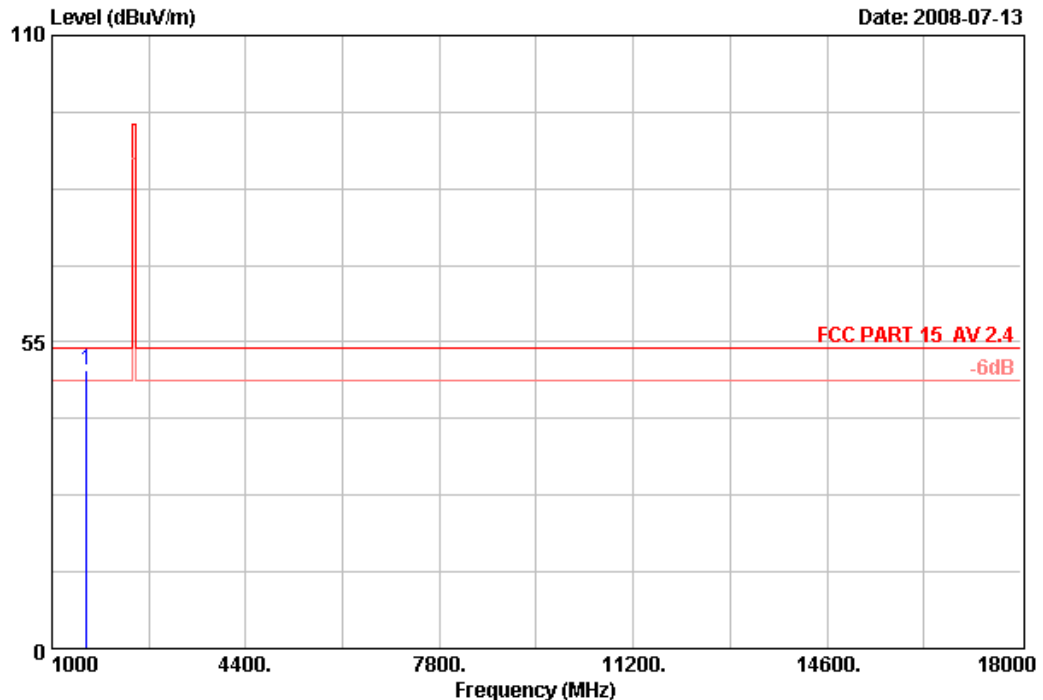


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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
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Data: 4

File: D:\2008 report data\G\G.tech\ACS8Q929.EMI (18)

Date: 2008-07-13



Site no. : 3# Chamber Data no. : 4
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
Limit : FCC PART 15 AV 2.4
Env. / Ins. : 23°C/54% Engineer : Power
EUT : Bluetooth Audio Adapter
Power Rating: DC 5V from Adaptor AC 120V/60Hz
Test Mode : Bluetooth Tx 2402MHz
M/N:BS06

		Ant.	Cable	Amp	Emission				
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	1602.00	25.91	5.46	35.66	54.31	50.02	54.00	3.98	Average

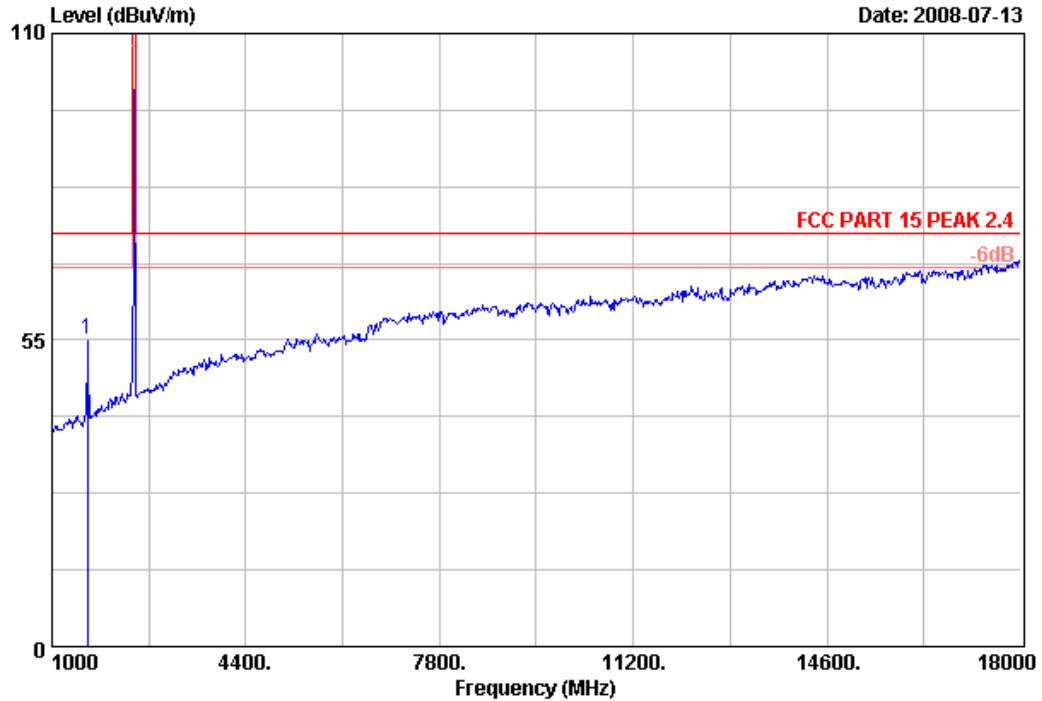
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
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Data: 7 File: D:\2008 report data\G\G.tech\ACS8Q929.EMI (18)

Date: 2008-07-13



Site no. : 3# Chamber Data no. : 7
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
Limit : FCC PART 15 PEAK 2.4
Env. / Ins. : 23°C/54% Engineer : Power
EUT : Bluetooth Audio Adapter
Power Rating: DC 5V from Adaptor AC 120V/60Hz
Test Mode : Bluetooth Tx 2441MHz
M/N:BS06

	Freq.	Ant.	Cable	Amp		Emission			
	(MHz)	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
		(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	1628.00	26.09	5.50	35.64	59.07	55.02	74.00	18.98	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.

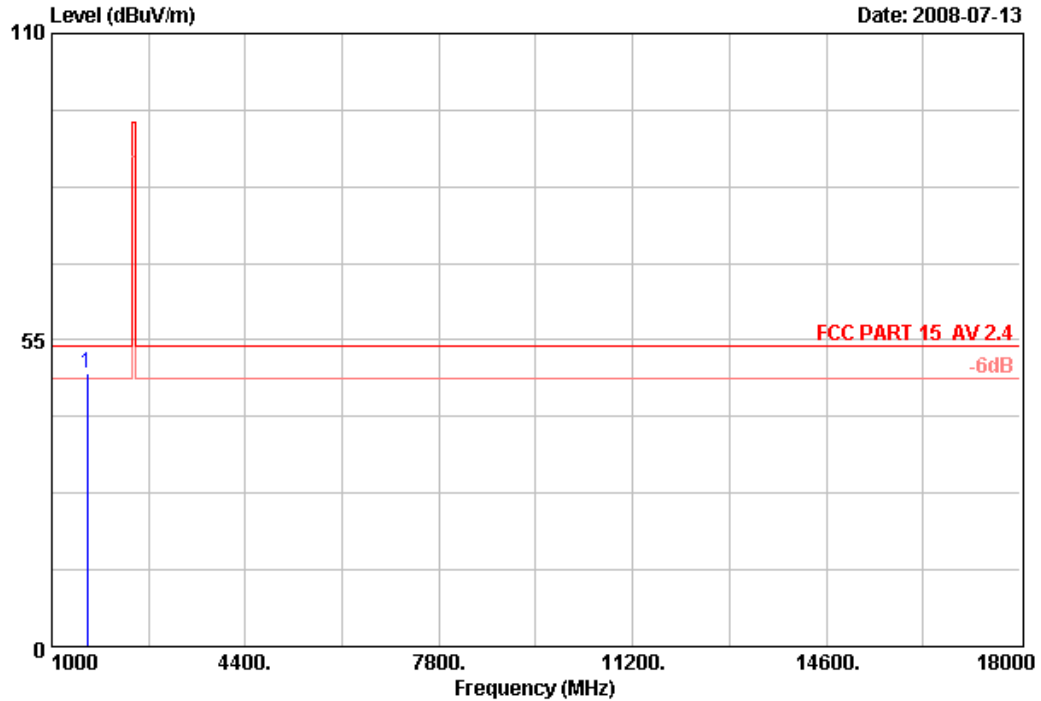


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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
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Data: 8

File: D:\2008 report data\GIG.tech\ACS8Q929.EMI (18)

Date: 2008-07-13



Site no. : 3# Chamber Data no. : 8
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
Limit : FCC PART 15 AV 2.4
Env. / Ins. : 23°C/54% Engineer : Power
EUT : Bluetooth Audio Adapter
Power Rating: DC 5V from Adaptor AC 120V/60Hz
Test Mode : Bluetooth Tx 2441MHz
M/N:BS06

		Ant.	Cable	Amp	Emission				
Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	1628.00	26.09	5.50	35.64	53.13	49.08	54.00	4.92	Average

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.

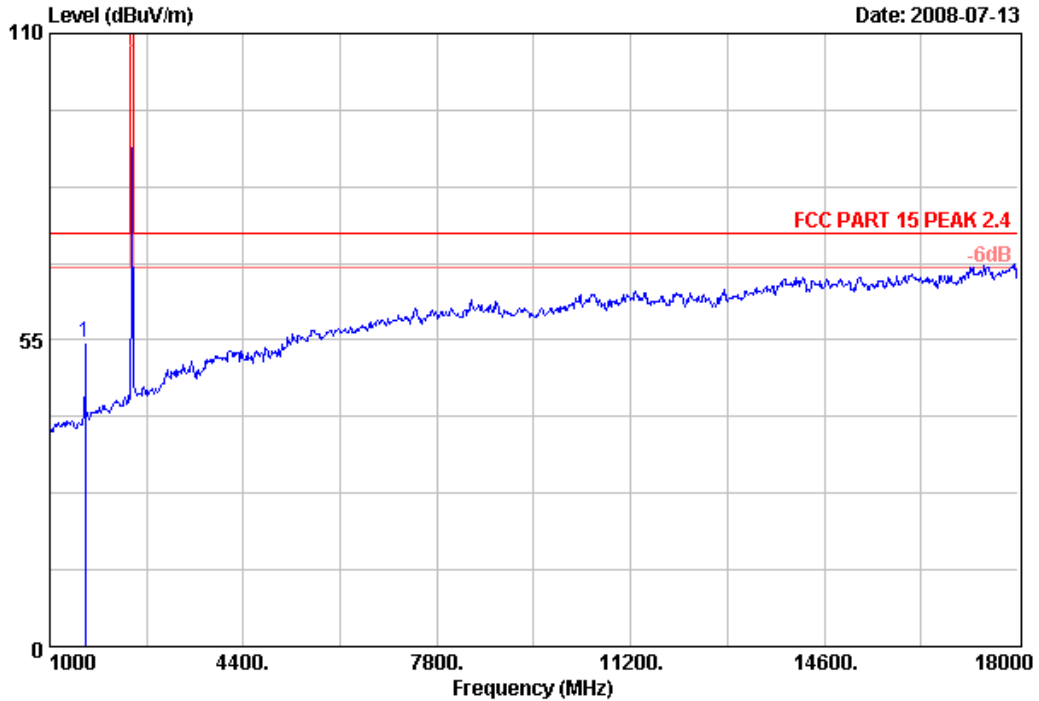


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ShenZhen Science & Industry Park
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Tel:+86-755-26639495-7
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Data: 5

File: D:\2008 report data\GIG.tech\ACS8Q929.EMI (18)

Date: 2008-07-13



Site no. : 3# Chamber Data no. : 5
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
Limit : FCC PART 15 PEAK 2.4
Env. / Ins. : 23°C/54% Engineer : Power
EUT : Bluetooth Audio Adapter
Power Rating: DC 5V from Adaptor AC 120V/60Hz
Test Mode : Bluetooth Tx 2441MHz
M/N:BS06

		Ant.	Cable	Amp		Emission			
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	1628.00	26.09	5.50	35.64	58.74	54.69	74.00	19.31	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.

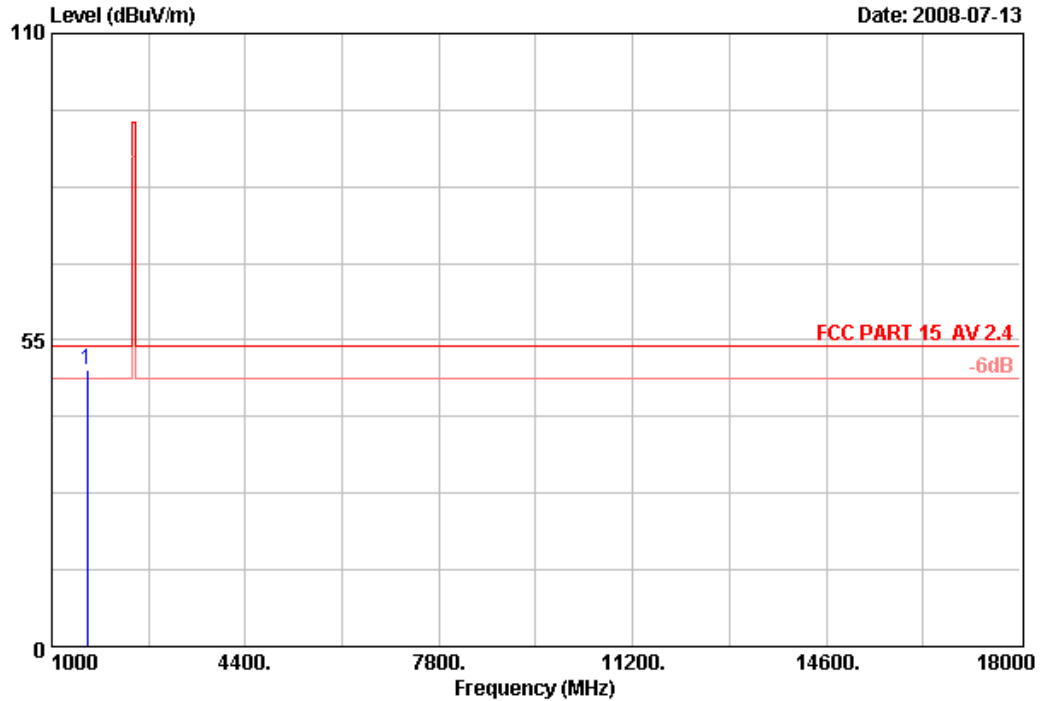


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Tel:+86-755-26639495-7
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Data: 6

File: D:\2008 report data\GIG.tech\ACS8Q929.EMI (18)

Date: 2008-07-13



Site no. : 3# Chamber Data no. : 6
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
Limit : FCC PART 15 AV 2.4
Env. / Ins. : 23°C/54% Engineer : Power
EUT : Bluetooth Audio Adapter
Power Rating: DC 5V from Adaptor AC 120V/60Hz
Test Mode : Bluetooth Tx 2441MHz
M/N:BS06

		Ant.	Cable	Amp	Emission				
Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	1628.00	26.09	5.50	35.64	53.84	49.79	54.00	4.21	Average

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.

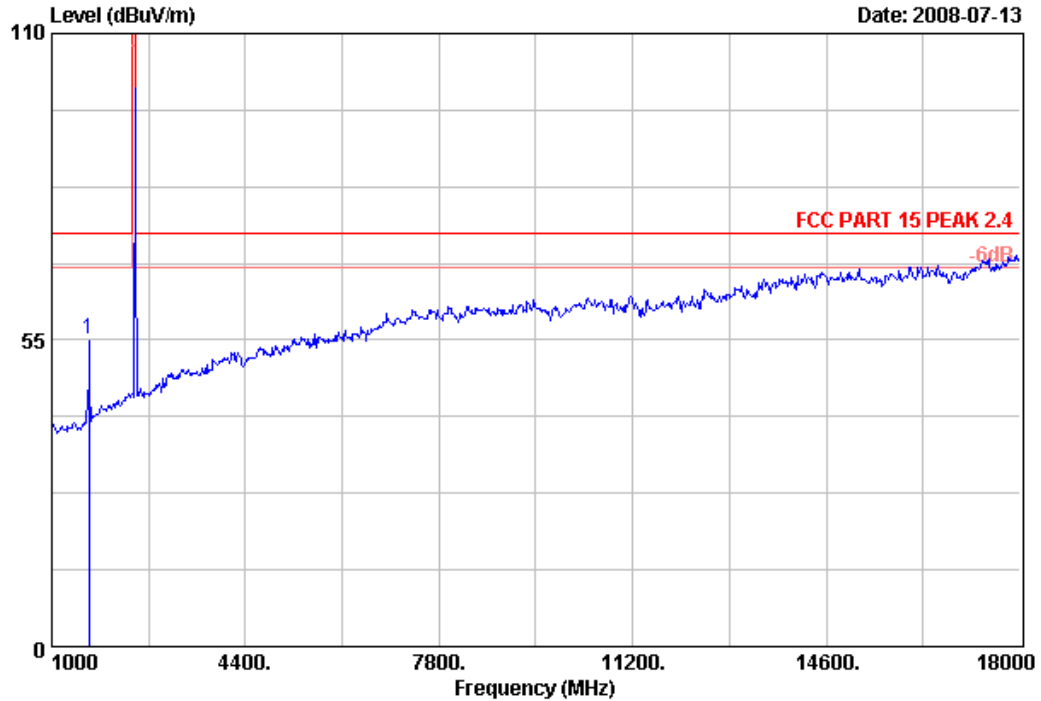


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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
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Data: 9

File: D:\2008 report data\GIG.tech\ACS8Q929.EMI (18)

Date: 2008-07-13



Site no. : 3# Chamber Data no. : 9
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
Limit : FCC PART 15 PEAK 2.4
Env. / Ins. : 23°C/54% Engineer : Power
EUT : Bluetooth Audio Adapter
Power Rating: DC 5V from Adaptor AC 120V/60Hz
Test Mode : Bluetooth Tx 2480MHz
M/N:BS06

		Ant.	Cable	Amp		Emission			
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	1646.00	26.18	5.53	35.61	59.12	55.22	74.00	18.78	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.

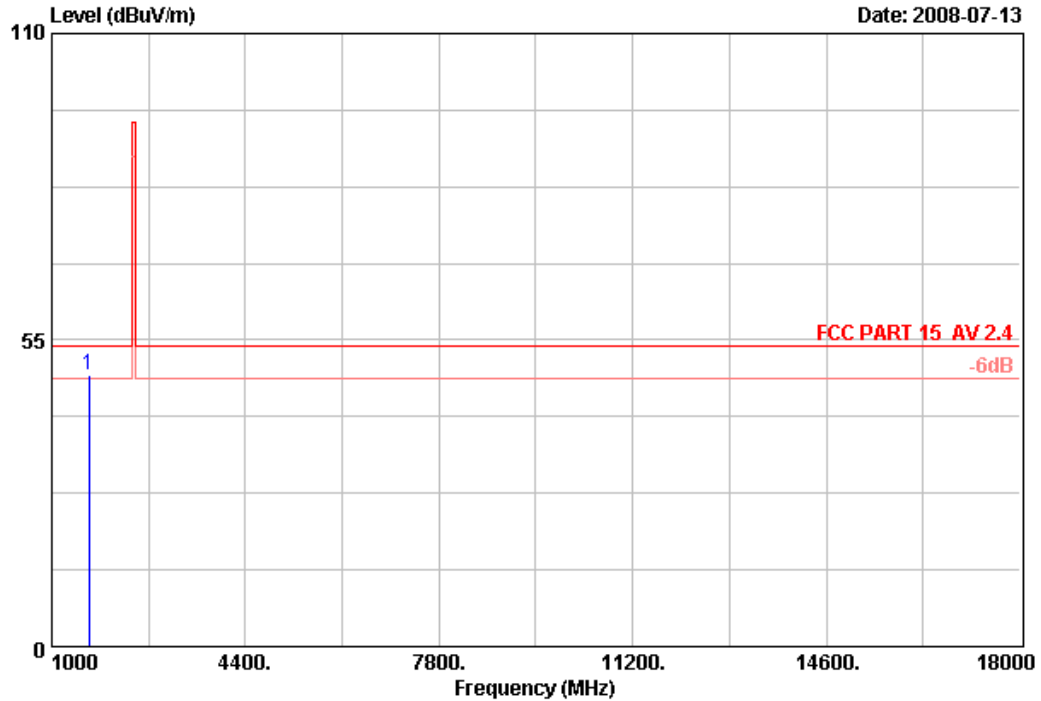


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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
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Data: 10

File: D:\2008 report data\GIG.tech\ACS8Q929.EMI (18)

Date: 2008-07-13



Site no. : 3# Chamber Data no. : 10
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
Limit : FCC PART 15 AV 2.4
Env. / Ins. : 23°C/54% Engineer : Power
EUT : Bluetooth Audio Adapter
Power Rating: DC 5V from Adaptor AC 120V/60Hz
Test Mode : Bluetooth Tx 2480MHz
M/N:BS06

		Ant.	Cable	Amp	Emission				
Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	1646.00	26.18	5.53	35.61	52.67	48.77	54.00	5.23	Average

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.

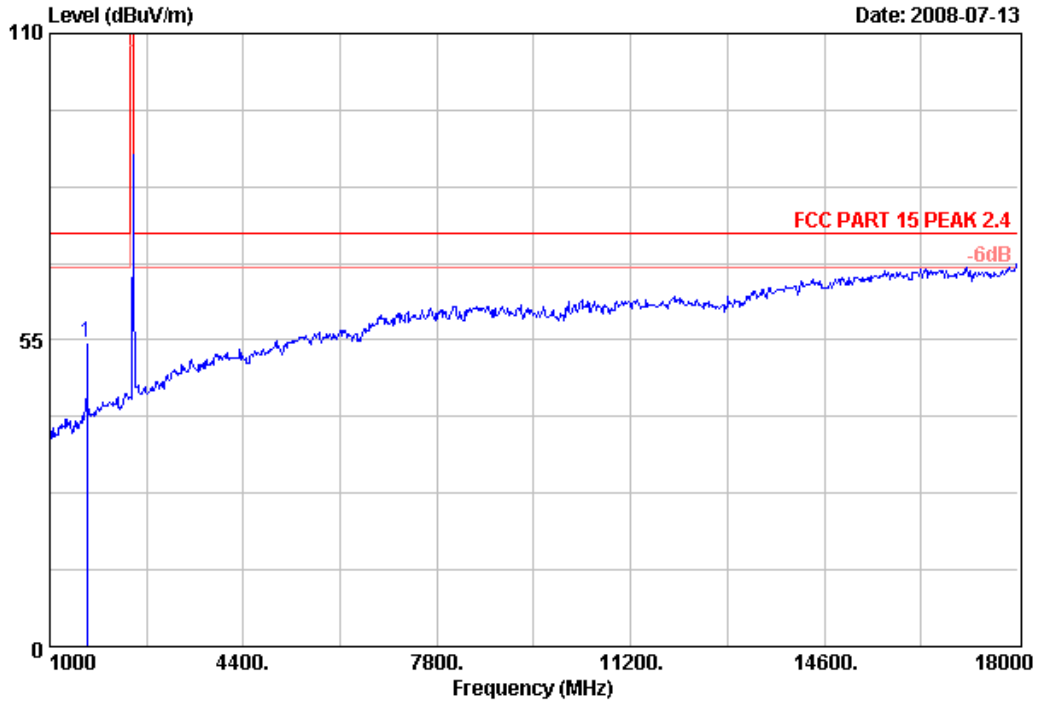


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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
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Data: 11

File: D:\2008 report data\GIG.tech\ACS8Q929.EMI (18)

Date: 2008-07-13



Site no. : 3# Chamber Data no. : 11
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
Limit : FCC PART 15 PEAK 2.4
Env. / Ins. : 23°C/54% Engineer : Power
EUT : Bluetooth Audio Adapter
Power Rating: DC 5V from Adaptor AC 120V/60Hz
Test Mode : Bluetooth Tx 2480MHz
M/N:BS06

		Ant.	Cable	Amp		Emission			
Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	1654.00	26.18	5.57	35.61	58.32	54.46	74.00	19.54	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.

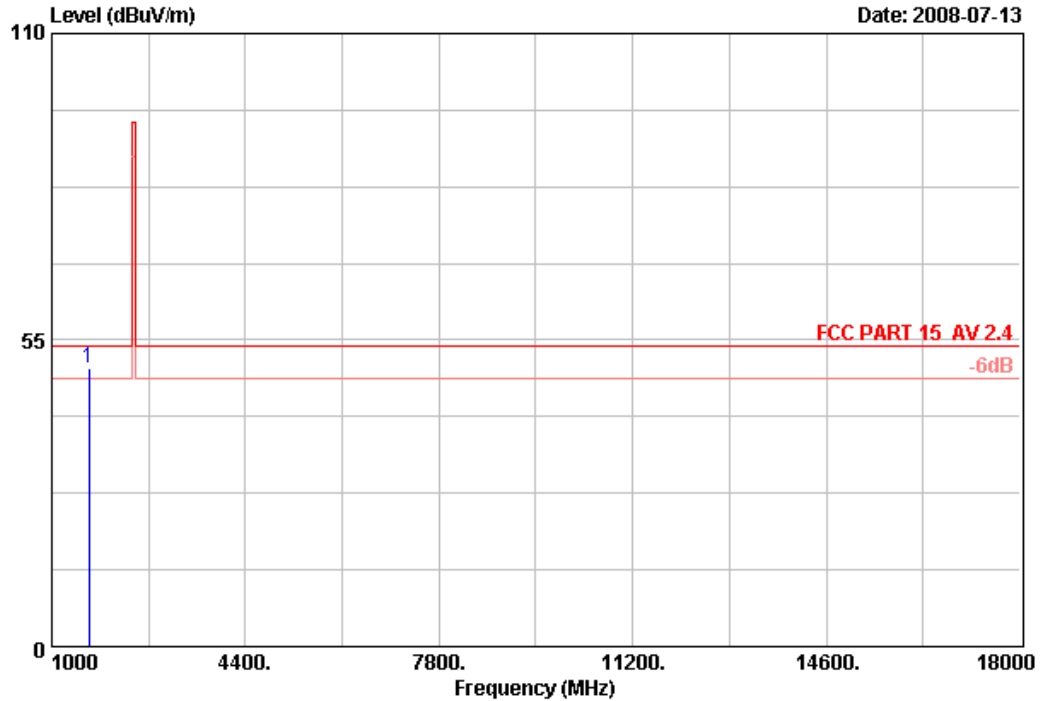


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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
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Data: 12

File: D:\2008 report data\GIG.tech\ACS8Q929.EMI (18)

Date: 2008-07-13



Site no. : 3# Chamber Data no. : 12
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
Limit : FCC PART 15 AV 2.4
Env. / Ins. : 23°C/54% Engineer : Power
EUT : Bluetooth Audio Adapter
Power Rating: DC 5V from Adaptor AC 120V/60Hz
Test Mode : Bluetooth Tx 2480MHz
M/N:BS06

		Ant.	Cable	Amp	Emission				
Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	1654.00	26.18	5.57	35.61	53.75	49.89	54.00	4.11	Average

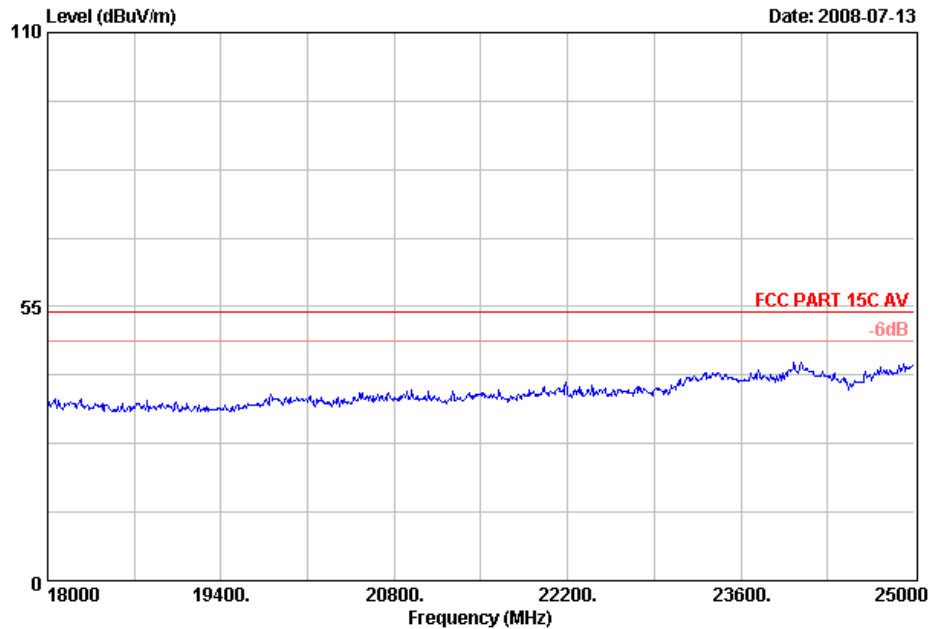
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Test Frequency: 18GHz-25GHz



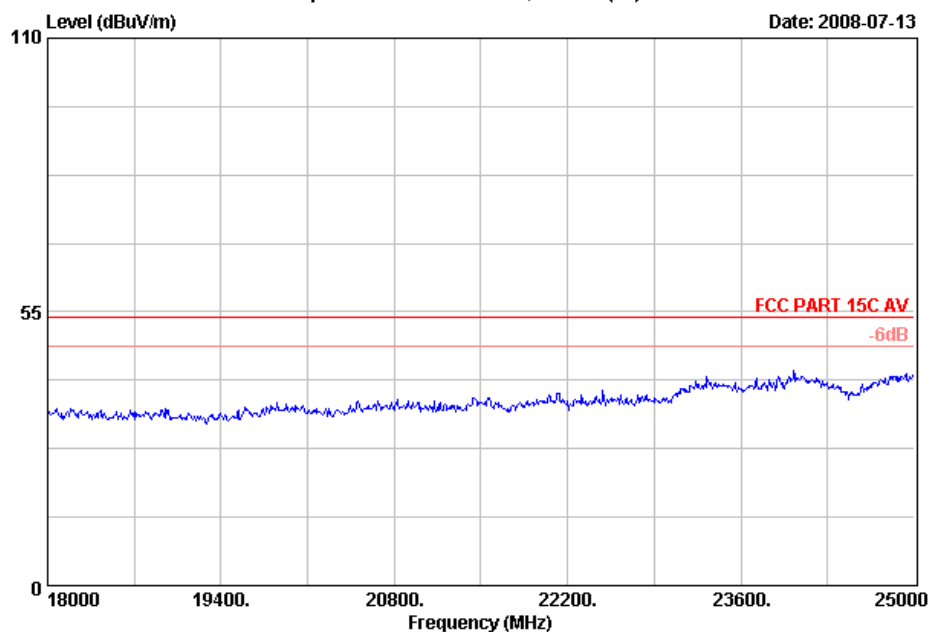
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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
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Postcode:518057

Data: 13 File: D:\2008 report data\G\G.tech\ACS8Q929.EMI (18)



Site no. : 3# Chamber Data no. : 13
Dis. / Ant. : 3m 3116 FACTOR Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 25°C/50% Engineer : Power
EUT : Bluetooth Audio Adapter
Power Rating: DC 5V from Adaptor AC 120V/60Hz
Test Mode : Bluetooth Tx 2402MHz
M/N:BS06

Data: 14 File: D:\2008 report data\G\G.tech\ACS8Q929.EMI (18)

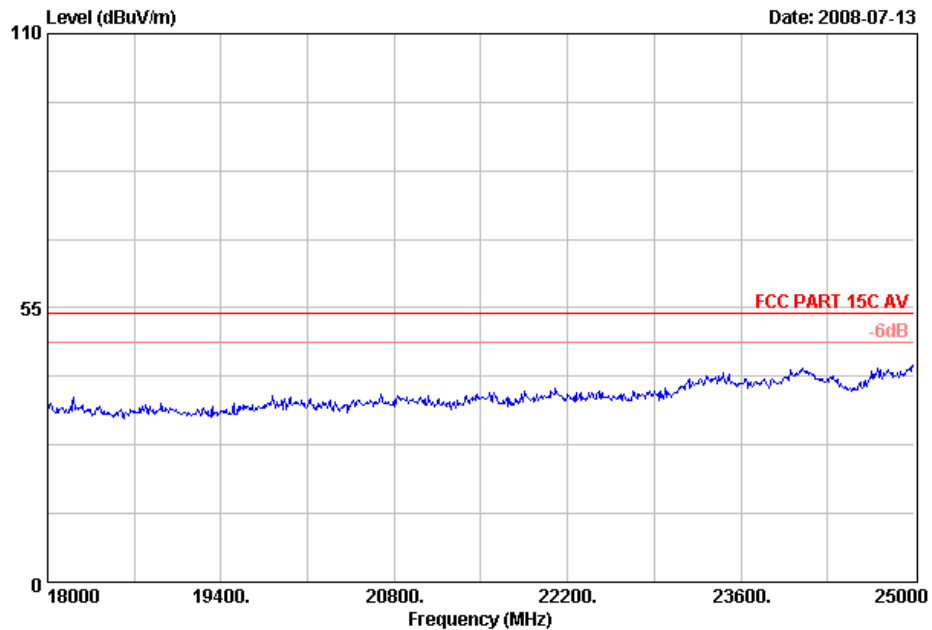


Site no. : 3# Chamber Data no. : 14
Dis. / Ant. : 3m 3116 FACTOR Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 25°C/50% Engineer : Power
EUT : Bluetooth Audio Adapter
Power Rating: DC 5V from Adaptor AC 120V/60Hz
Test Mode : Bluetooth Tx 2402MHz
M/N:BS06



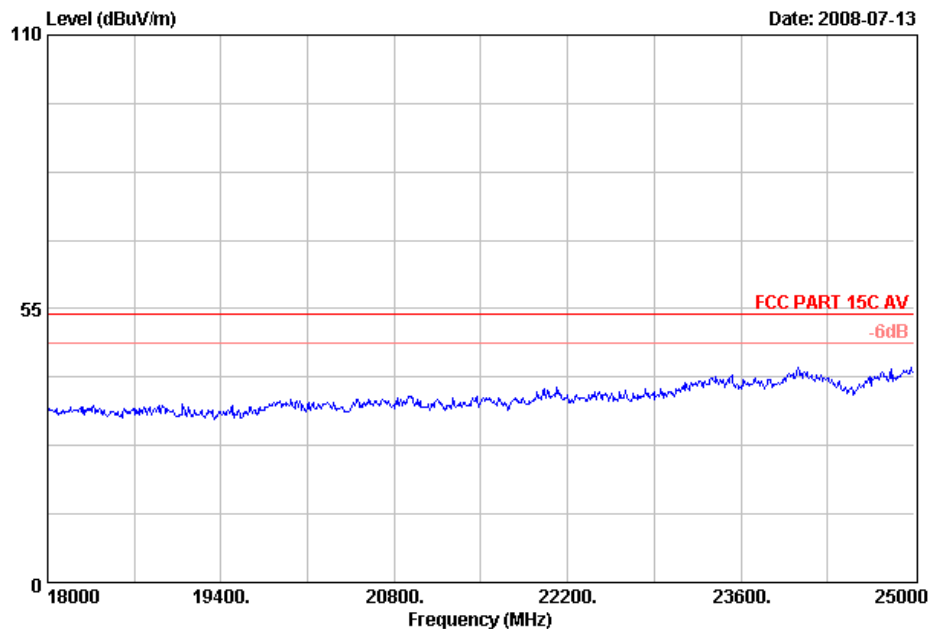
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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

Data: 16 File: D:\2008 report data\G\G.tech\ACS8Q929.EMI (18)



Site no. : 3# Chamber Data no. : 16
Dis. / Ant. : 3m 3116 FACTOR Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 25°C/50% Engineer : Power
EUT : Bluetooth Audio Adapter
Power Rating: DC 5V from Adaptor AC 120V/60Hz
Test Mode : Bluetooth Tx 2441MHz
M/N:BS06

Data: 15 File: D:\2008 report data\G\G.tech\ACS8Q929.EMI (18)

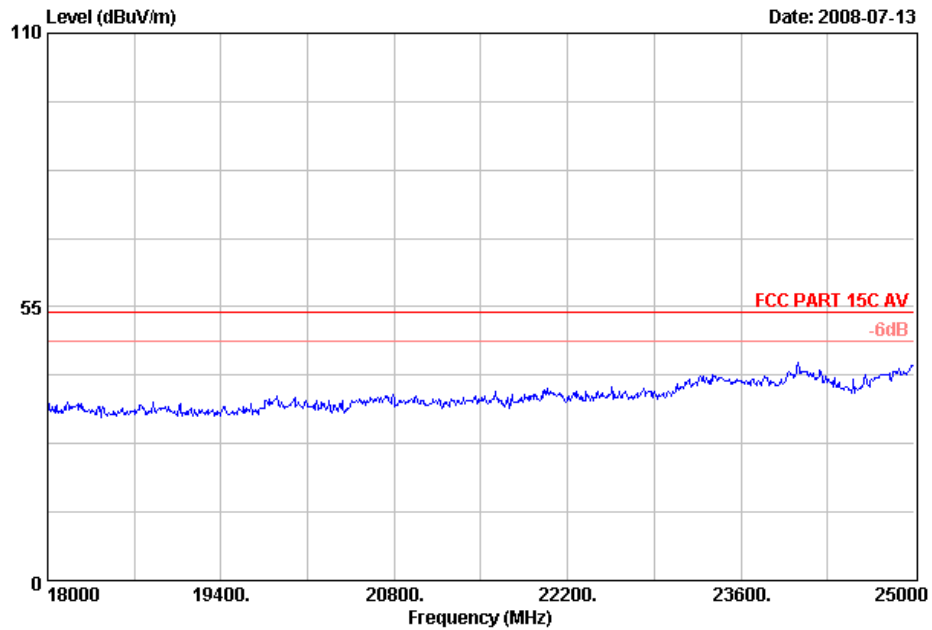


Site no. : 3# Chamber Data no. : 15
Dis. / Ant. : 3m 3116 FACTOR Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 25°C/50% Engineer : Power
EUT : Bluetooth Audio Adapter
Power Rating: DC 5V from Adaptor AC 120V/60Hz
Test Mode : Bluetooth Tx 2441MHz
M/N:BS06



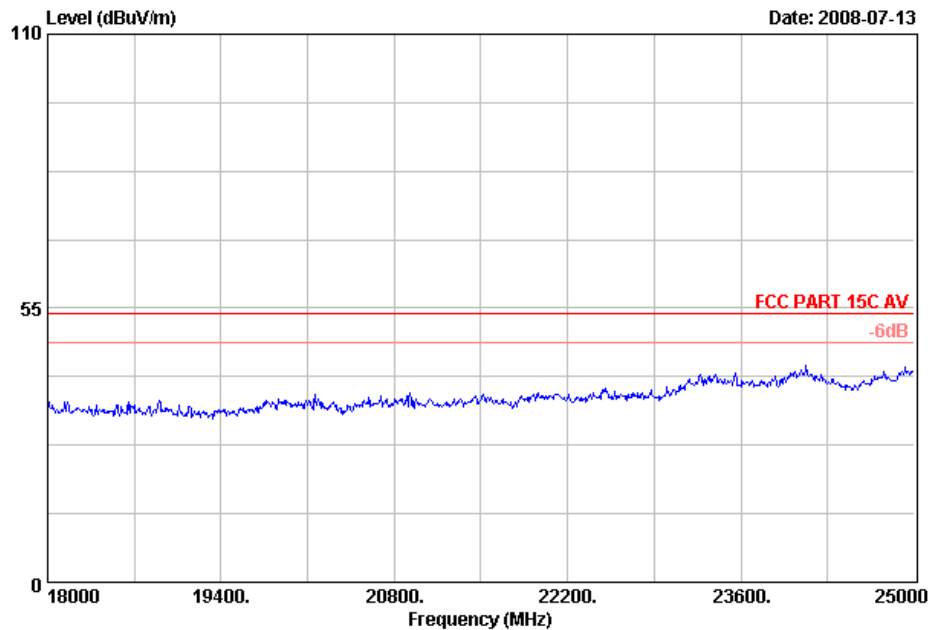
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ShenZhen Science & Industry Park
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Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

Data: 17 File: D:\2008 report data\G\G.tech\ACS8Q929.EMI (18)



Site no. : 3# Chamber Data no. : 17
Dis. / Ant. : 3m 3116 FACTOR Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 25°C/50% Engineer : Power
EUT : Bluetooth Audio Adapter
Power Rating: DC 5V from Adaptor AC 120V/60Hz
Test Mode : Bluetooth Tx 2480MHz
M/N:BS06

Data: 18 File: D:\2008 report data\G\G.tech\ACS8Q929.EMI (18)



Site no. : 3# Chamber Data no. : 18
Dis. / Ant. : 3m 3116 FACTOR Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 25°C/50% Engineer : Power
EUT : Bluetooth Audio Adapter
Power Rating: DC 5V from Adaptor AC 120V/60Hz
Test Mode : Bluetooth Tx 2480MHz
M/N:BS06

5. CARRIER FREQUENCY SEPARATION TEST

5.1. Test Equipment

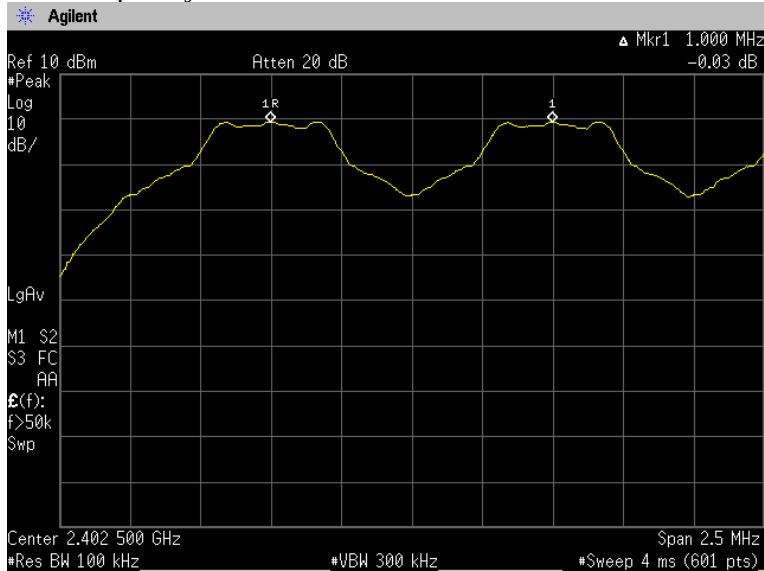
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum Analyzer	Agilent	E4446A	US44300459	May,10, 08	1 Year
2	Attenuator	Agilent	8491B	MY39262165	May,28, 08	1 Year
3	Horn Antenna	EMCO	3115	9607-4877	May,27, 08	1.5 Year
4	RF Cable	Hubersuhner	SUCOFLEX 102	2861812	May,28, 08	1 Year
5	RF Cable	Hubersuhner	SUCOFLEX 102	28862212	May,28, 08	1 Year

5.2. Test Information

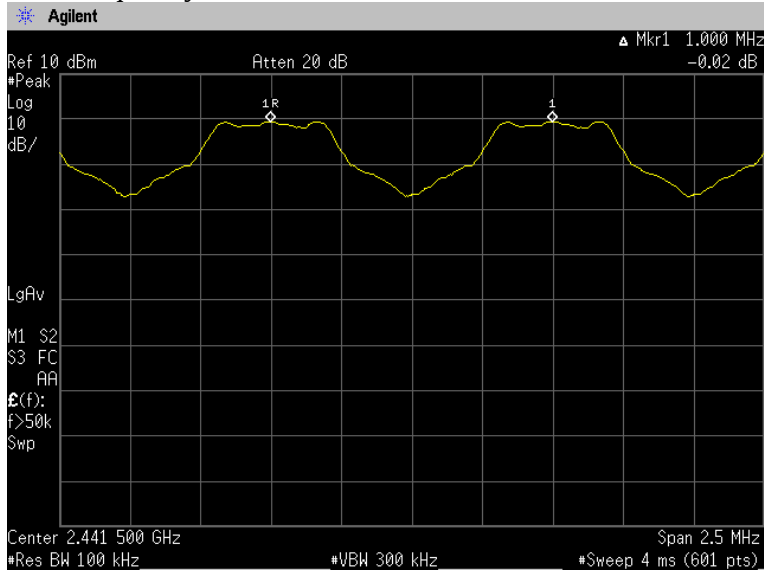
EUT:	Bluetooth Audio Adapter (Transmitter / Receiver)		
M/N:	BS06		
Test Date:	Jul.12, 2008		
Ambient Temperature:	23°C		
Relative Humidity:	55%		
Test standard:	FCC PART 15C: 15.247(a)(1)		
Test mode:	TX (Hopping on)		
Test Frequency:	Low: 2402MHz	Mid: 2441MHz	High: 2480MHz
Test By:	Power		

5.3. Test Results (Pass.)

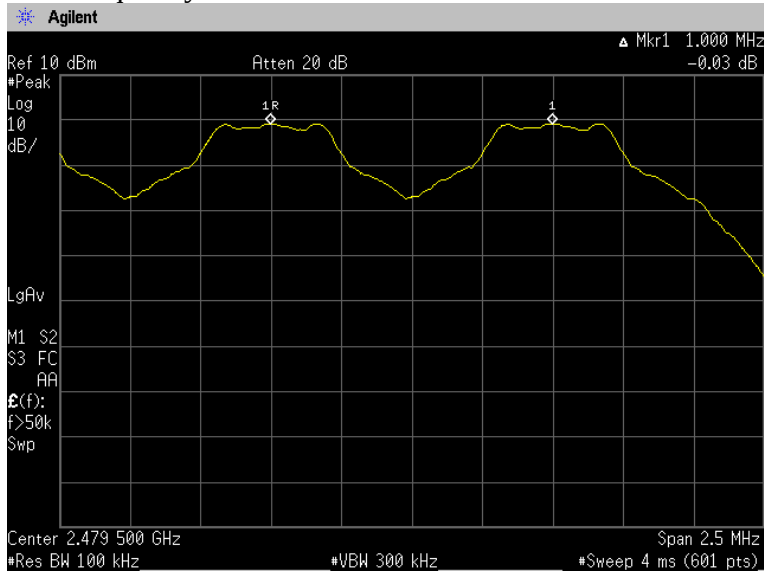
Test Frequency: 2402MHz



Test Frequency: 2441MHz



Test Frequency: 2480MHz



6. 20 DB BANDWIDTH TEST

6.1.Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum Analyzer	Agilent	E4446A	US44300459	May,10, 08	1 Year
2	Attenuator	Agilent	8491B	MY39262165	May,28, 08	1 Year
3	Horn Antenna	EMCO	3115	9607-4877	May, 27, 08	1.5 Year
4	RF Cable	Hubersuhner	SUCOFLEX 102	2861812	May,28, 08	1Year
5	RF Cable	Hubersuhner	SUCOFLEX 102	28862212	May,28, 08	1 Year

6.2.Test Information

EUT:	Bluetooth Audio Adapter (Transmitter / Receiver)		
M/N:	BS06		
Test Date:	Jul.12, 2008		
Ambient Temperature:	23°C		
Relative Humidity:	55%		
Test standard:	FCC PART 15C: 15.247(a)(1)		
Test mode:	TX (Hopping off)		
Test Frequency:	Low: 2402MHz	Mid: 2441MHz	High: 2480MHz
Test By:	Power		

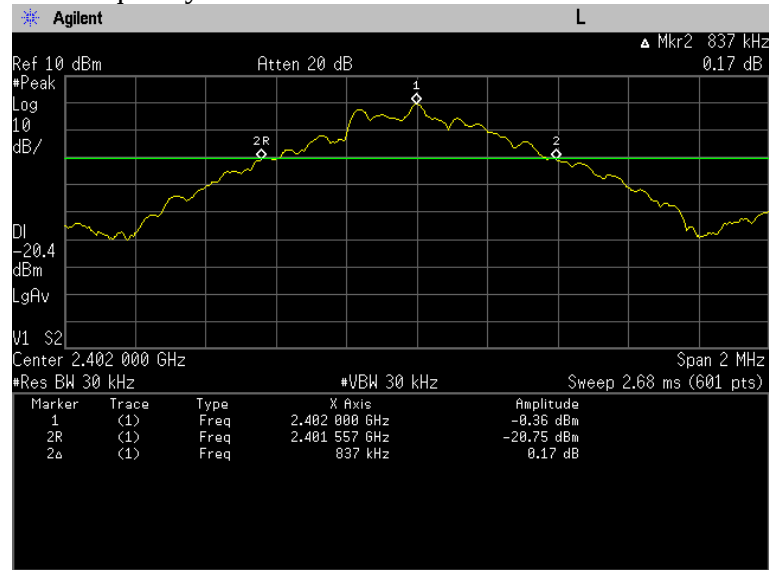
6.3.Test Procedure

The transmitter output was coupled to a spectrum analyzer via a antenna . The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100kHz RBW and 100kHz VBW. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

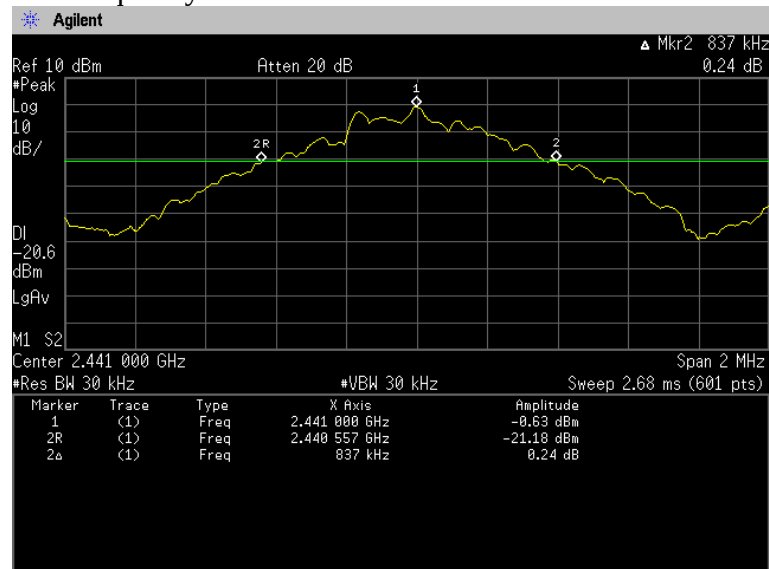
6.4.Test Results

CH	20dB Bandwidth (kHz)	Limit (kHz)	Conclusion
(Low)	837	---	PASS
(Mid)	837	---	PASS
(High)	840	---	PASS

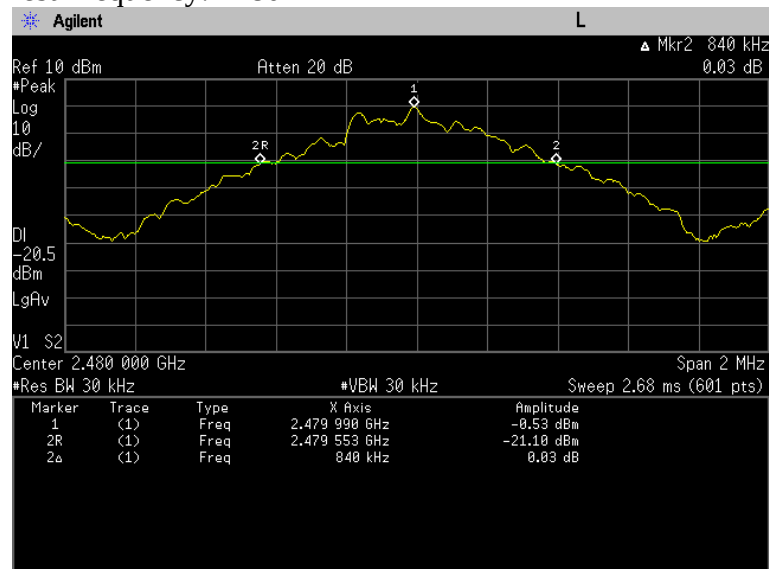
Test Frequency: 2402MHz



Test Frequency: 2441MHz



Test Frequency: 2480MHz



7. NUMBER OF HOPPING FREQUENCY TEST

7.1. Test Equipment

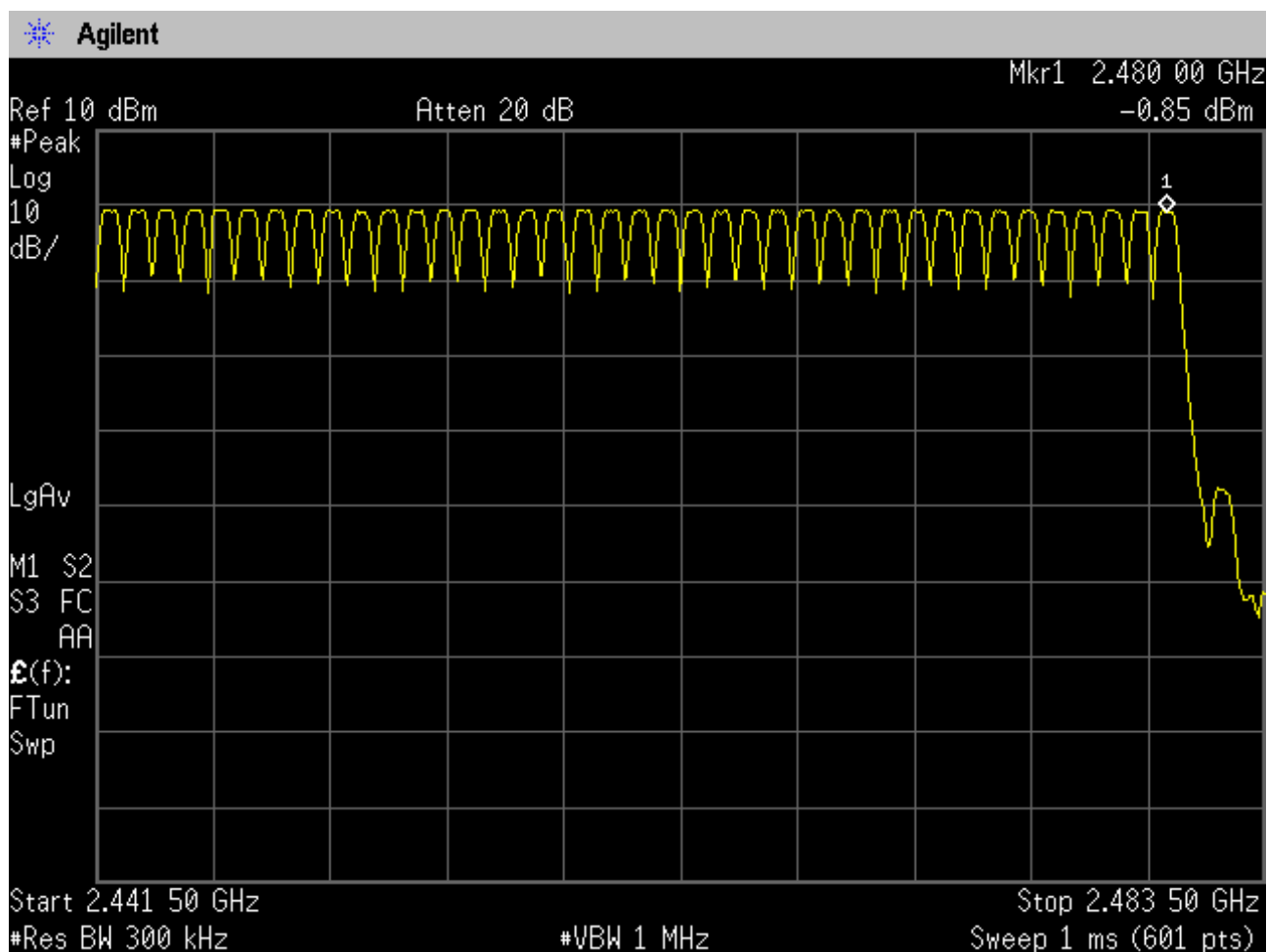
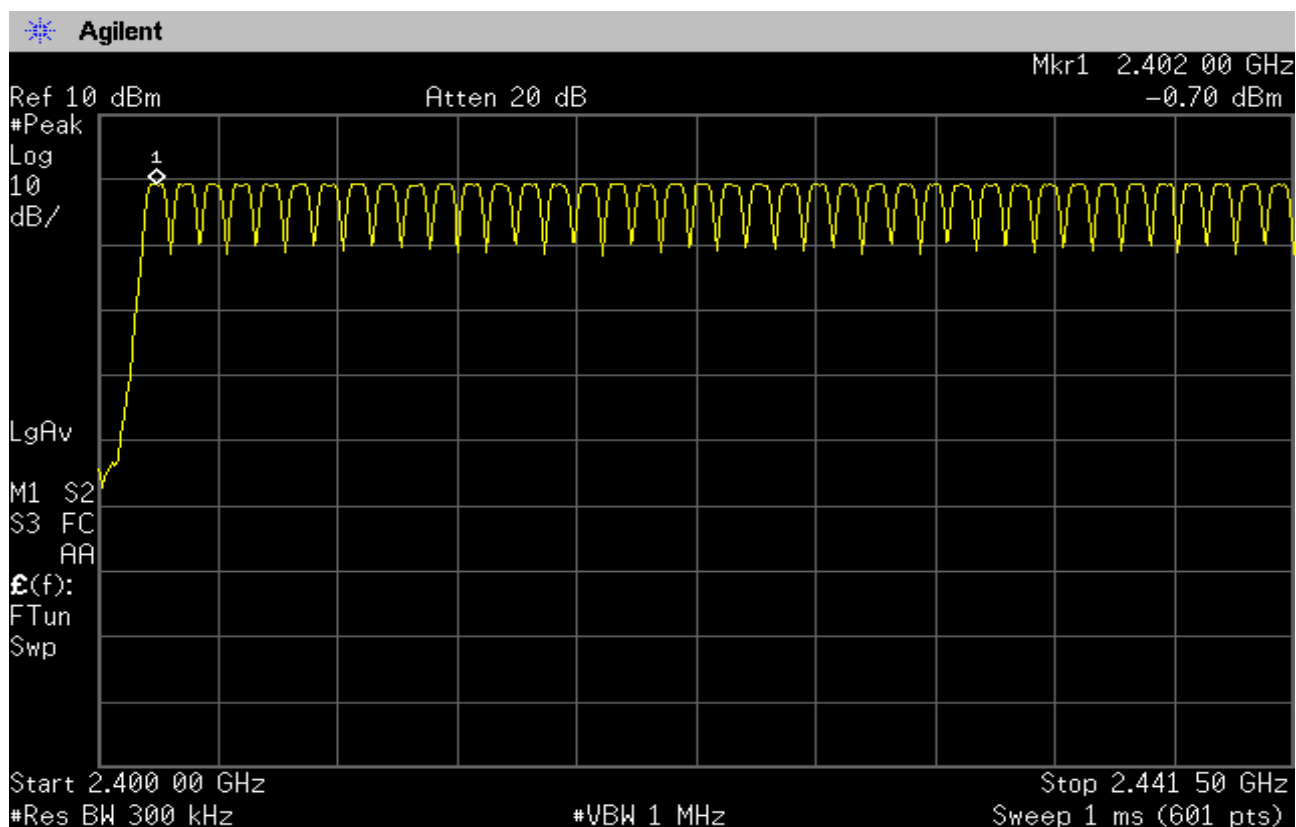
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum Analyzer	Agilent	E4446A	US44300459	May,10, 08	1 Year
2	Attenuator	Agilent	8491B	MY39262165	May,28, 08	1 Year
3	Horn Antenna	EMCO	3115	9607-4877	May, 27, 08	1.5 Year
4	RF Cable	Hubersuhner	SUCOFLEX 102	2861812	May,28, 08	1Year
5	RF Cable	Hubersuhner	SUCOFLEX 102	28862212	May,28, 08	1 Year

7.2. Test Information

EUT:	Bluetooth Audio Adapter (Transmitter / Receiver)
M/N:	BS06
Test Date:	Jul.12, 2008
Ambient Temperature:	23°C
Relative Humidity:	55%
Test standard:	FCC PART 15C: 15.247(a)(1)(iii)
Test mode:	TX (Hopping on)
Test Frequency:	From 2402MHz to 2480MHz
Test By:	Power

7.3. Test Results

Number of channel	Limit	Conclusion
79	>=15	PASS



8. DWELL TIME TEST

8.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum Analyzer	Agilent	E4446A	US44300459	May,10, 08	1 Year
2	Attenuator	Agilent	8491B	MY39262165	May,28, 08	1 Year
3	Horn Antenna	EMCO	3115	9607-4877	May, 27, 08	1.5 Year
4	RF Cable	Hubersuhner	SUCOFLEX 102	2861812	May,28, 08	1Year
5	RF Cable	Hubersuhner	SUCOFLEX 102	28862212	May,28, 08	1 Year

8.2. Test Information

EUT:	Bluetooth Audio Adapter (Transmitter / Receiver)
M/N:	BS06
Test Date:	Jul.12, 2008
Ambient Temperature:	23℃
Relative Humidity:	55%
Test standard:	FCC PART 15C: 15.247(a)(1)(iii)
Test mode:	Transmitting, Hopping off
Test Frequency:	Normal
Test By:	Power

8.3. Test Results

This system hopping 50, 25, 17 hops in any 5s, and for each hop it transmit 2 pulses, the pulse dwell are 0.4446 ms, 1.705ms, 2.960ms, so the dwell times are:

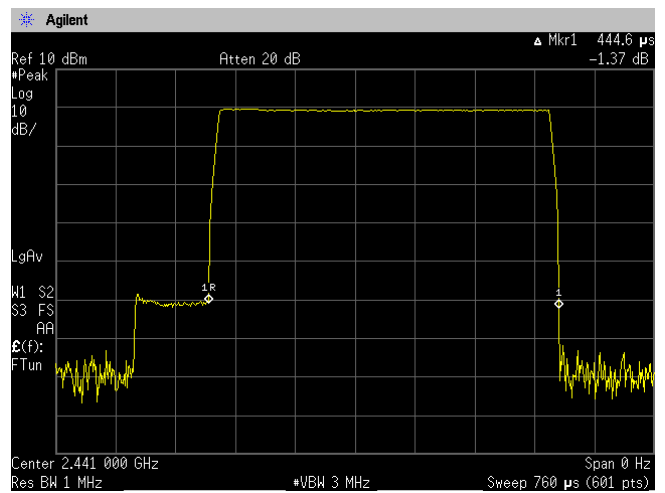
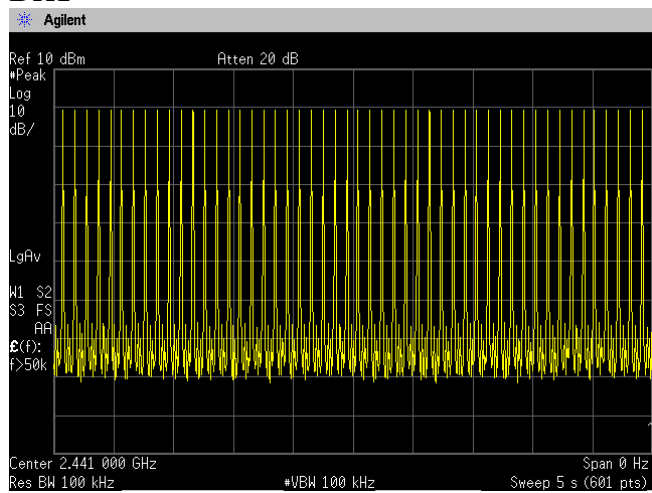
$$DH1:50/5*31.6*0.4446=140.49ms$$

$$DH3:25/5*31.6*1.705=269.39ms$$

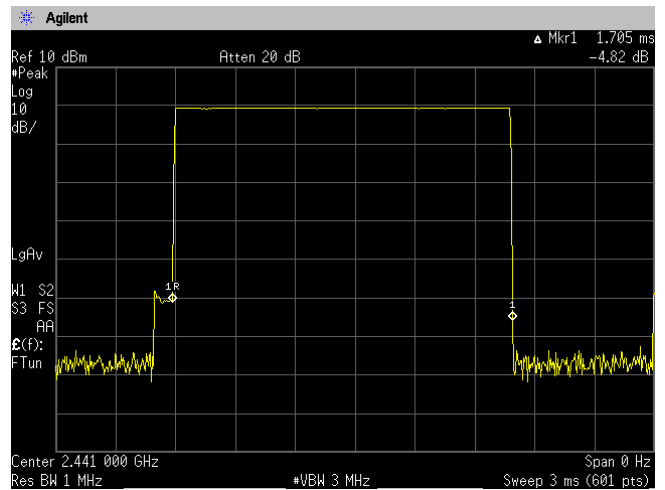
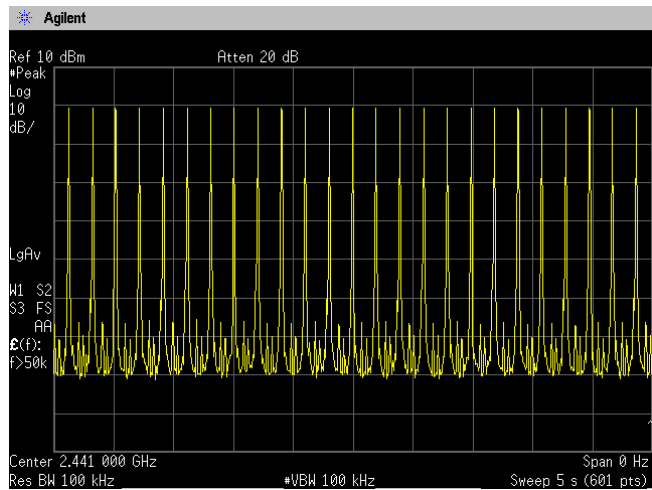
$$DH5:17/5*31.6*2.960=318.02$$

	Dwell time	Limit	Conclusion
DH1	140.49ms	<400ms	PASS
DH3	269.39ms	<400ms	PASS
DH5	318.02ms	<400ms	PASS

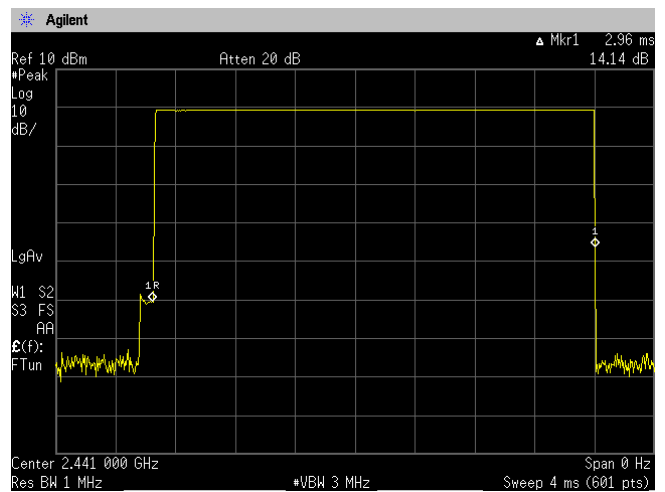
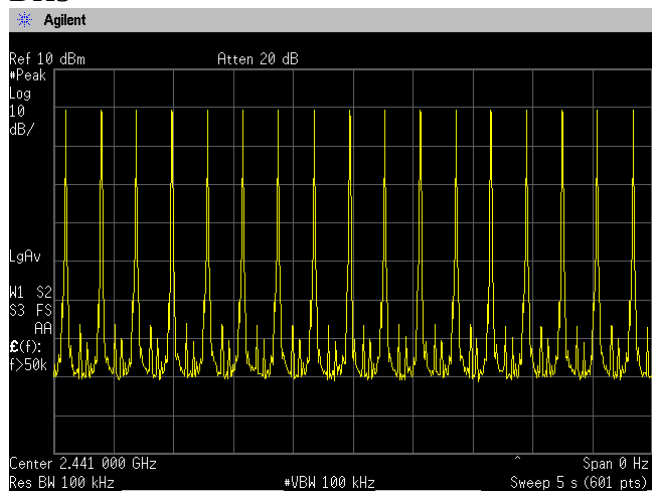
DH1



DH3



DH5



9. MAXIMUM PEAK OUTPUT POWER TEST

9.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	Agilent	E4446A	US44300459	May,10, 08	1 Year
2	Horn Antenna	EMCO	3115	9607-4877	May, 27, 08	1.5 Year
3	Horn Antenna	EMCO	3115	9510-4580	May,11, 07	1.5 Year
4	Signal Generator	HP	83732B	6K00003262	May,10, 08	1 Year
5	RF Cable	Hubersuhner	SUCOFLEX	182769/4	May,28, 08	1Year
6	RF Cable	Hubersuhner	SUCOFLEX	182768/4	May,28, 08	1Year
7	RF Cable	Hubersuhner	SUCOFLEX	182771/4	May,28, 08	1Year
8	RF Cable	Hubersuhner	SUCOFLEX 102	2861812	May,28, 08	1Year
9	RF Cable	Hubersuhner	SUCOFLEX 104	27147314	May,28, 08	1Year
10	Amplifier	HP	8449B	3008A00863	May,10, 08	1 Year

9.2. Test Procedure

- (1). The EUT was placed on a 0.8m high table in the chamber and turned on in continuously transmitting mode.
- (2). The maximum fundamental emission at 3m distance was measured use peak detector and 1MHz RBW, 1MHz VBW and recorded with receive antenna in both vertical and horizontal by rotating the turntable and by lowering the receive antenna.
- (3). The EUT was then removed and replaced with a substitution antenna in the same position and the substitution antenna must have the same polarization with the receive antenna.
- (4). A signal which have the same frequency obtained in step 2 was fed to the substitution, the receive antenna was raised and lowered to obtain a maximum reading at the test receiver, the level of the signal generator was adjusted until the measured field strength level in step 2 was obtained, recorded the level of the signal generator.
- (5). Repeated step 4 with both antenna polarizations
- (6). The radiated power is equal to the power supplied by the signal generator and corrections due to the gain of the substitution antenna and the cable loss between the signal generator and the substitution antenna.

9.3.Test Results

Equipment	Bluetooth Audio Adapter (Transmitter / Receiver)									
M/N	BS06				Temperature	23℃				
Power	DC 5V From Adaptor AC 120V/60Hz				Humidity	55%				
Test date	2008-07-12				Engineer	Power				
Antenna Gain: 2dBi										
Mode: Tx (Hopping off)										
Freq (MHz)	Ant Pol.	SG Reading (dBm)	Tx Cable Loss (dB)	Tx Ant. Gain (dBi)	Result EIRP (dBm)	Limit EIRP (dBm)	EIRP Margin (dB)	Output power (dBm)	Output power limit (dBm)	Output power margin (dBm)
2402	H	0.17	6.06	9.25	3.36	36	32.64	1.36	30	28.64
	V	0.38	6.06	9.25	3.57	36	32.43	1.57	30	28.43
2441	H	0.03	6.08	9.30	3.25	36	32.75	1.25	30	28.75
	V	0.44	6.08	9.30	3.66	36	32.34	1.66	30	28.34
2480	H	0.01	6.15	9.33	3.19	36	32.81	1.19	30	28.81
	V	0.36	6.15	9.33	3.54	36	32.46	1.54	30	28.46
Result = SG Reading – Tx Cable Loss + Tx Antenna Gain										
Output power=EIRP-Antenna Gain										
Rx-Antenna: Horn Antenna										
Tx-Antenna: Horn Antenna										

10.BAND EDGE COMPLIANCE TEST

10.1.Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum Analyzer	Agilent	E4446A	US44300459	May,10, 08	1 Year
2	Horn Antenna	EMCO	3115	9607-4877	May,27, 08	1.5 Year
3	Amplifier	HP	8449B	3008A00863	May,10, 08	1 Year
4	RF Cable	Hubersuhner	SUCOFLEX	182769/4	May,28, 08	1 Year
5	RF Cable	Hubersuhner	SUCOFLEX	182768/4	May,28, 08	1 Year
6	RF Cable	Hubersuhner	SUCOFLEX	182771/4	May,28, 08	1 Year

10.2.Limit

According to §15.247(c), 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. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

10.3.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=VBW=1MHz / Sweep=AUTO Detector=Peak
 - (b) AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=AUTO Detector=Peak

10.4.Test Results

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

All the peak level comply with average limit, So the average level were deemed to comply with average limit.

Hopping off:

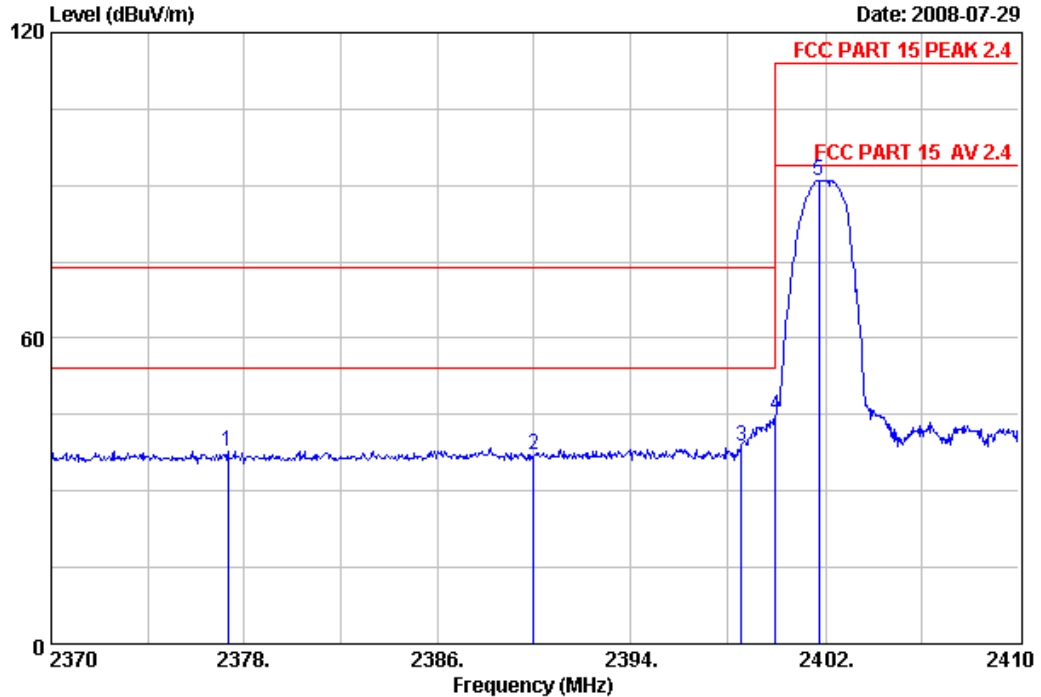


No.6 Ke Feng Road,B1;ck 52,
ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

Data: 20

File: D:\2008 report data\G\G.tech\ACS8Q929.EMI (22)

Date: 2008-07-29



Site no. : 3# Chamber Data no. : 20
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
Limit : FCC PART 15 PEAK 2.4
Env. / Ins. : 23°C/54% Engineer : Power
EUT : Bluetooth Audio Adapter
Power Rating: DC 5V from Adaptor AC 120V/60Hz
Memo : Bluetooth Tx 2402MHz
M/N:BS06

		Ant.	Cable	Amp	Emission				
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2377.32	28.95	6.71	35.19	37.47	37.94	74.00	36.06	Peak
2	2390.00	28.99	6.71	35.18	36.49	37.01	74.00	36.99	Peak
3	2398.60	28.99	6.73	35.18	38.14	38.68	74.00	35.32	Peak
4	2400.00	28.99	6.73	35.18	44.30	44.84	74.00	29.16	Peak
5	2401.80	28.99	6.73	35.18	90.43	90.97	114.00	23.03	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.

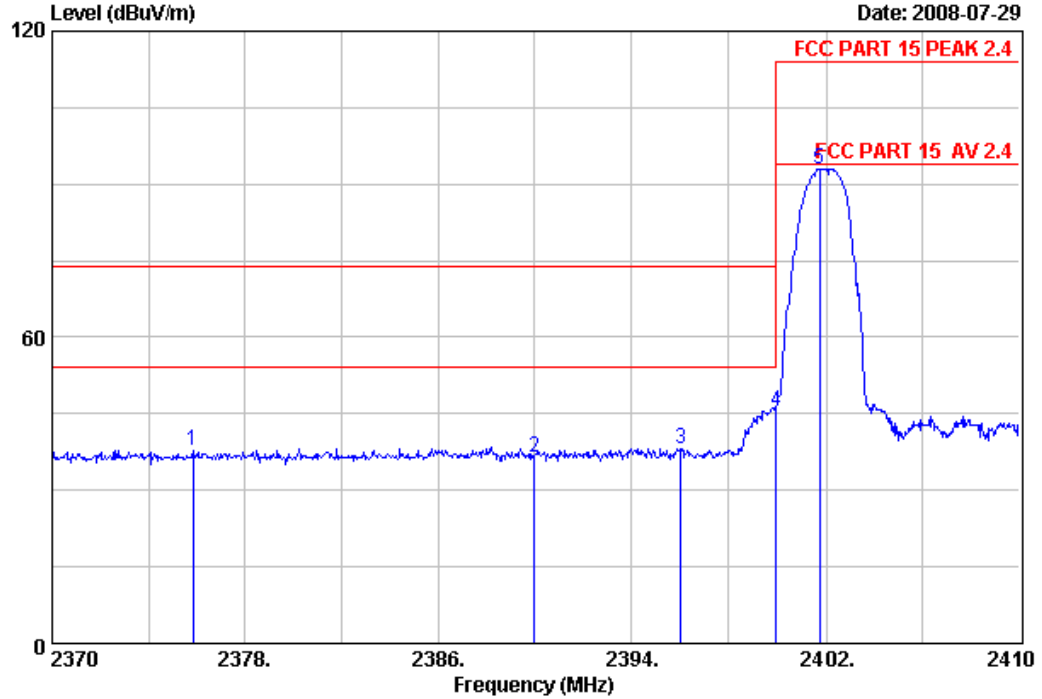


No.6 Ke Feng Road,B1;ck 52,
ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
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Data: 19

File: D:\2008 report data\G\G.tech\ACS8Q929.EMI (22)

Date: 2008-07-29



Site no. : 3# Chamber Data no. : 19
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
Limit : FCC PART 15 PEAK 2.4
Env. / Ins. : 23°C/54% Engineer : Power
EUT : _Bluetooth Audio Adapter
Power Rating: DC 5V from Adaptor AC 120V/60Hz
Memo : Bluetooth Tx 2402MHz
M/N:BS06

		Ant.	Cable	Amp	Emission				
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2375.84	28.95	6.71	35.19	37.20	37.67	74.00	36.33	Peak
2	2390.00	28.99	6.71	35.18	36.01	36.53	74.00	37.47	Peak
3	2396.04	28.99	6.73	35.18	37.57	38.11	74.00	35.89	Peak
4	2400.00	28.99	6.73	35.18	44.84	45.38	74.00	28.62	Peak
5	2401.80	28.99	6.73	35.18	92.43	92.97	114.00	21.03	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.

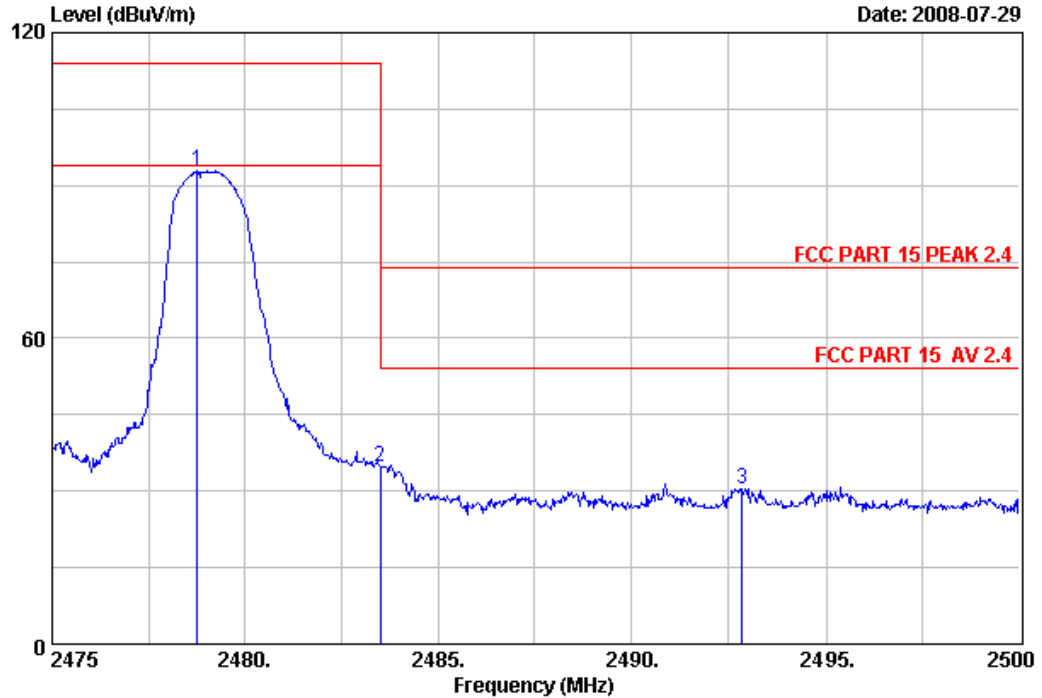


No.6 Ke Feng Road,B1;ck 52,
ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
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Data: 22

File: D:\2008 report data\G\G.tech\ACS8Q929.EMI (22)

Date: 2008-07-29



Site no. : 3# Chamber Data no. : 22
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
Limit : FCC PART 15 PEAK 2.4
Env. / Ins. : 23°C/54% Engineer : Power
EUT : Bluetooth Audio Adapter
Power Rating: DC 5V from Adaptor AC 120V/60Hz
Memo : Bluetooth Tx 2480MHz
M/N:BS06

		Ant.	Cable	Amp	Emission				
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2478.75	29.19	6.87	35.16	92.04	92.94	114.00	21.06	Peak
2	2483.50	29.19	6.87	35.16	33.90	34.80	74.00	39.20	Peak
3	2492.88	29.23	6.91	35.15	29.55	30.54	74.00	43.46	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.

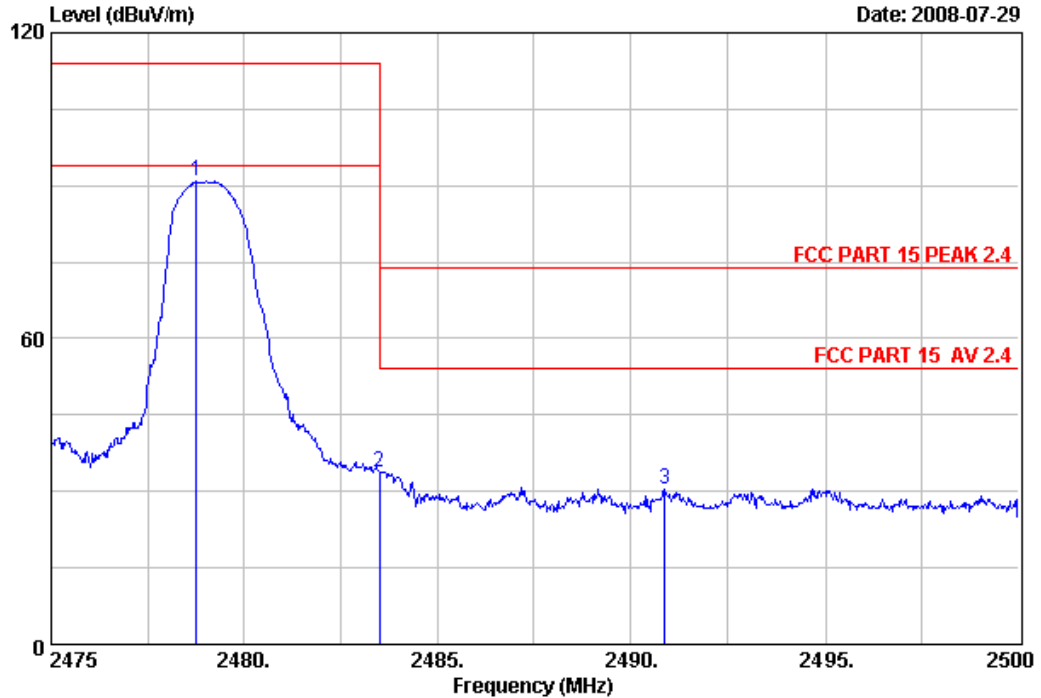


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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
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Data: 21

File: D:\2008 report data\G\G.tech\ACS8Q929.EMI (22)

Date: 2008-07-29



Site no. : 3# Chamber Data no. : 21
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
Limit : FCC PART 15 PEAK 2.4
Env. / Ins. : 23°C/54% Engineer : Power
EUT : Bluetooth Audio Adapter
Power Rating: DC 5V from Adaptor AC 120V/60Hz
Memo : Bluetooth Tx 2480MHz
M/N:BS06

		Ant.	Cable	Amp	Emission				
	Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	2478.75	29.19	6.87	35.16	90.04	90.94	114.00	23.06	Peak
2	2483.50	29.19	6.87	35.16	32.90	33.80	74.00	40.20	Peak
3	2490.88	29.23	6.91	35.15	29.58	30.57	74.00	43.43	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.

Hopping on:

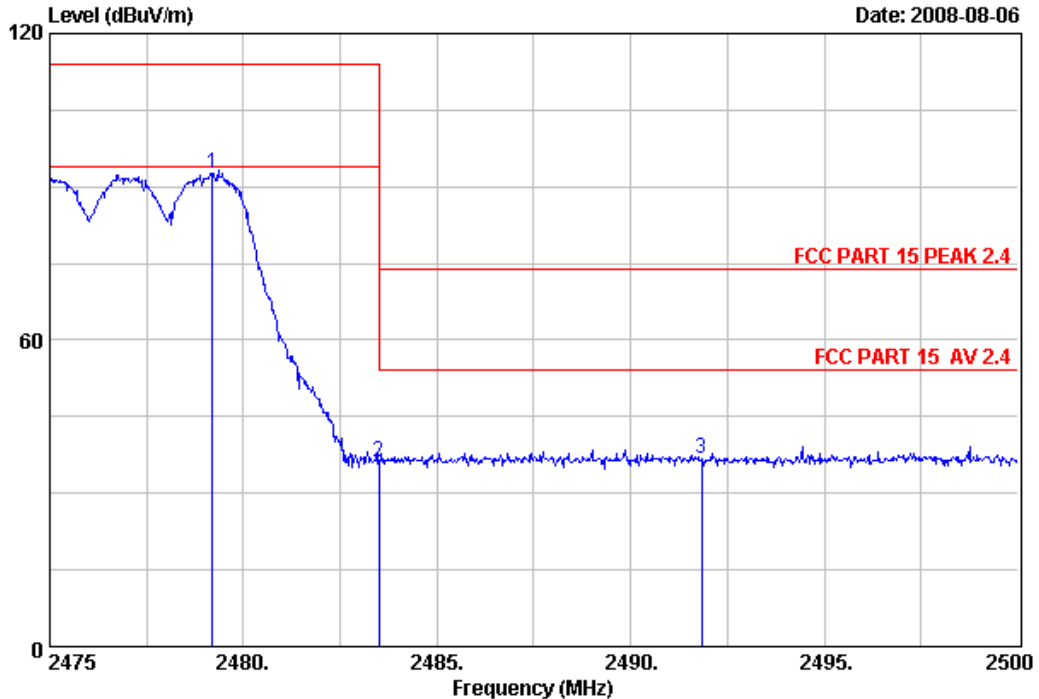


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ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
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Data: 23

File: D:\2008 report data\G\G.tech\ACS8Q929.EMI (26)

Date: 2008-08-06



Site no. : 3# Chamber Data no. : 23
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
Limit : FCC PART 15 PEAK 2.4
Env. / Ins. : 23°C/54% Engineer : Power
EUT : Wii Wireless American P-Bass guitar controller
Power Rating: DC 5V from Adaptor AC 120V/60Hz
Test mode : Bluetooth Tx 2480MHz
M/N : M/N:BS06

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2479.20	29.19	6.87	35.16	91.70	92.60	114.00	21.40	Peak
2	2483.50	29.19	6.87	35.16	35.30	36.20	74.00	37.80	Peak
3	2491.83	29.23	6.91	35.15	35.62	36.61	74.00	37.39	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.

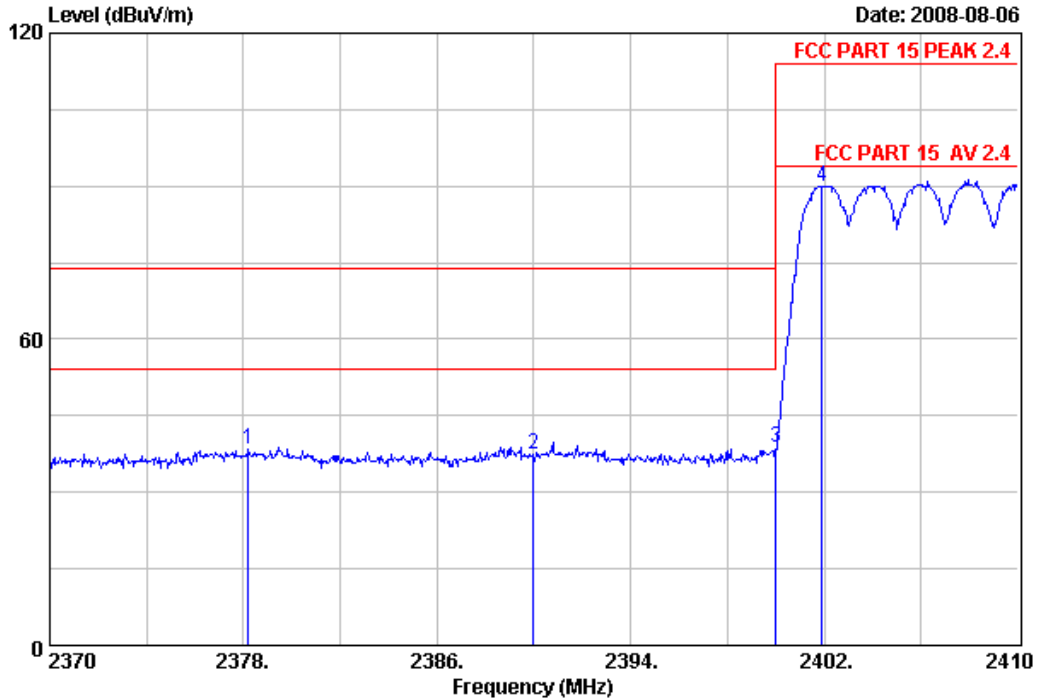


No.6 Ke Feng Road,B1:ck 52,
ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
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Data: 24

File: D:\2008 report data\GIG.tech\ACS8Q929.EMI (26)

Date: 2008-08-06



Site no. : 3# Chamber Data no. : 24
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
Limit : FCC PART 15 PEAK 2.4
Env. / Ins. : 23°C/54% Engineer : Power
EUT : Wii Wireless American P-Bass guitar controller
Power Rating: DC 5V from Adaptor AC 120V/60Hz
Test mode : Bluetooth Tx 2402MHz
M/N : M/N:BS06

	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	2378.20	28.95	6.71	35.19	37.87	38.34	74.00	35.66	Peak
2	2390.00	28.99	6.71	35.18	36.80	37.32	74.00	36.68	Peak
3	2400.00	28.99	6.73	35.18	38.17	38.71	74.00	35.29	Peak
4	2401.92	28.99	6.73	35.18	89.46	90.00	114.00	24.00	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.

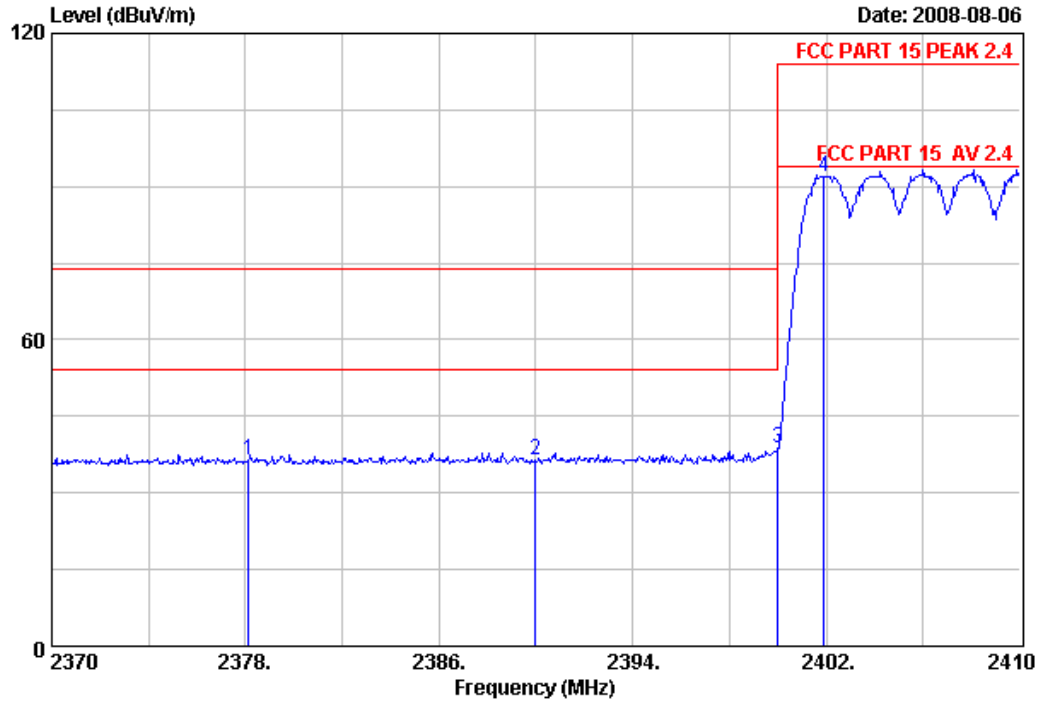


No.6 Ke Feng Road,B1:ck 52,
ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
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Data: 25

File: D:\2008 report data\GIG.tech\ACS8Q929.EMI (26)

Date: 2008-08-06



Site no. : 3# Chamber Data no. : 25
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL
Limit : FCC PART 15 PEAK 2.4
Env. / Ins. : 23°C/54% Engineer : Power
EUT : Wii Wireless American P-Bass guitar controller
Power Rating: DC 5V from Adaptor AC 120V/60Hz
Test mode : Bluetooth Tx 2402MHz
M/N : M/N:BS06

	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	2378.12	28.95	6.71	35.19	35.99	36.46	74.00	37.54	Peak
2	2390.00	28.99	6.71	35.18	35.80	36.32	74.00	37.68	Peak
3	2400.00	28.99	6.73	35.18	38.17	38.71	74.00	35.29	Peak
4	2401.92	28.99	6.73	35.18	91.46	92.00	114.00	22.00	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.

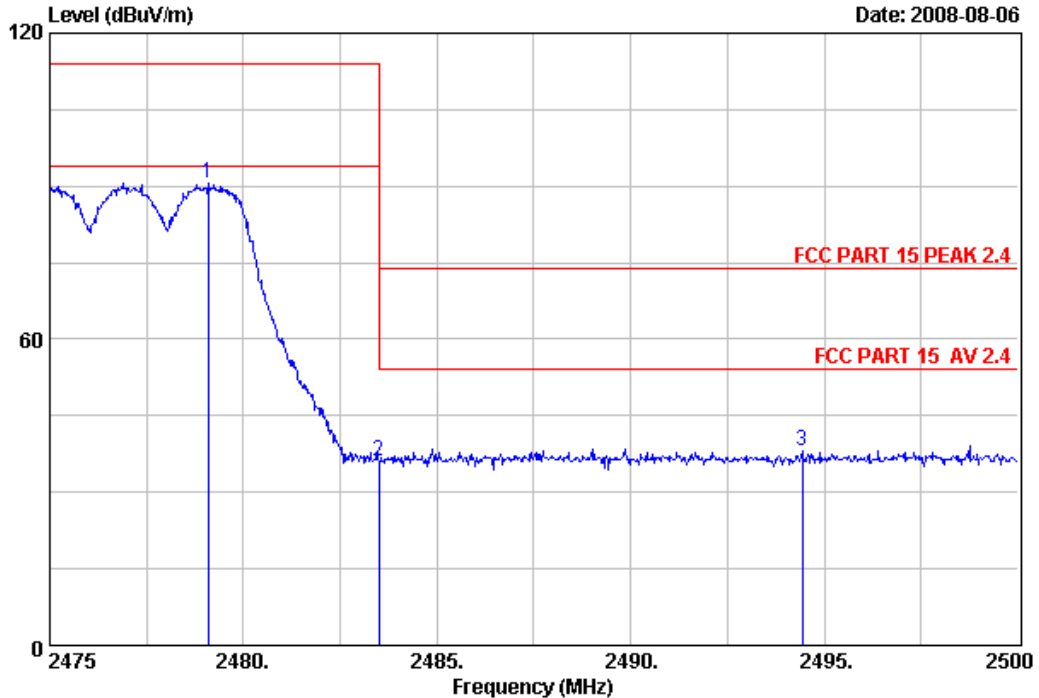


No.6 Ke Feng Road,B1:ck 52,
ShenZhen Science & Industry Park
Noutou,ShenZhen,GuangDong,China
Tel:+86-755-26639495-7
Fax:+86-755-26632877
Postcode:518057

Data: 26

File: D:\2008 report data\GIG.tech\ACS8Q929.EMI (26)

Date: 2008-08-06



Site no. : 3# Chamber Data no. : 26
Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL
Limit : FCC PART 15 PEAK 2.4
Env. / Ins. : 23°C/54% Engineer : Power
EUT : Wii Wireless American P-Bass guitar controller
Power Rating: DC 5V from Adaptor AC 120V/60Hz
Test mode : Bluetooth Tx 2480MHz
M/N : M/N:BS06

	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	2479.10	29.19	6.87	35.16	89.52	90.42	114.00	23.58	Peak
2	2483.50	29.19	6.87	35.16	35.30	36.20	74.00	37.80	Peak
3	2494.43	29.23	6.91	35.15	37.10	38.09	74.00	35.91	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.

11. ANTENNA REQUIREMENT

10.1 STANDARD APPLICABLE

For intentional device, according to FCC 47 CFR Section 15.203, 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. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

10.2 ANTENNA CONNECTED CONSTRUCTION

The antenna used for this product is a PCB integral antenna that no antenna other than that furnished by the responsible party shall be used with the device, The maximum peak gain of this antenna is only 2dBi.

12.DEVIATION TO TEST SPECIFICATIONS

[NONE]

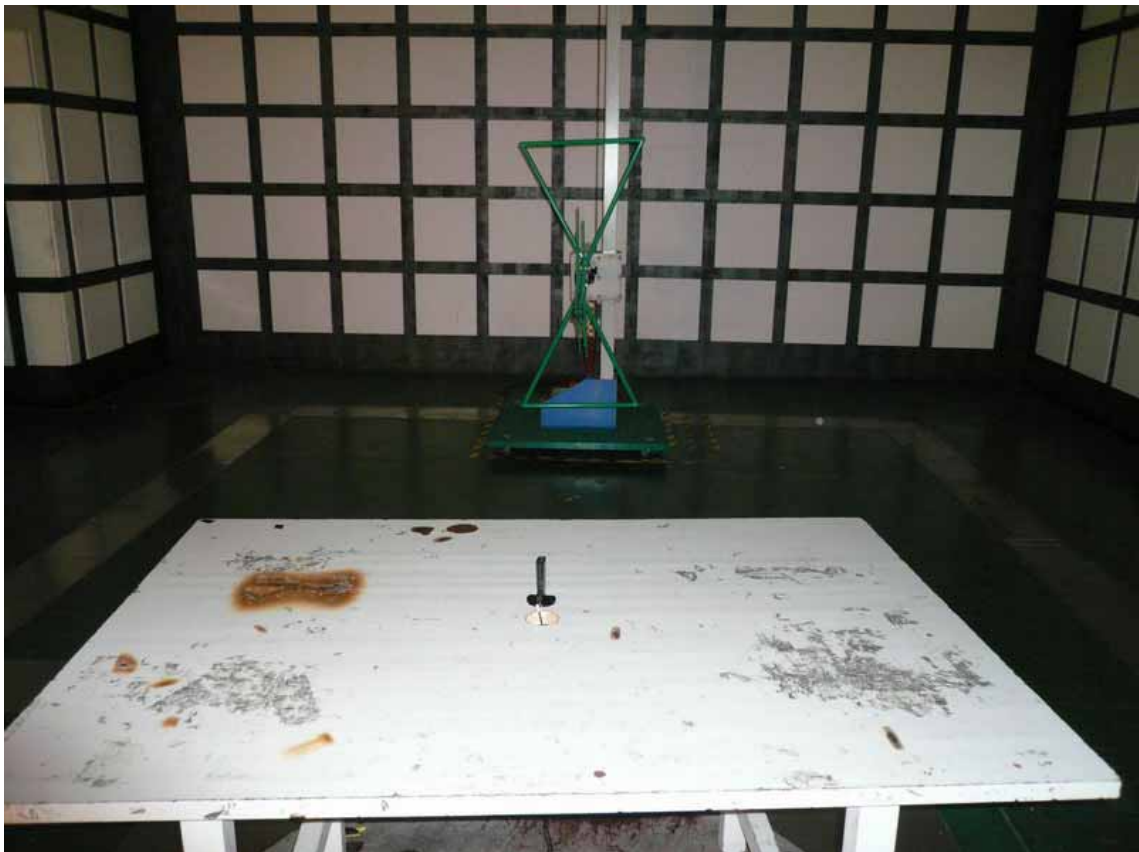
13. PHOTOGRAPH OF TEST

13.1. Photos of Power Line Conducted Emission Test



13.2.Photos of Radiated Emission Test

30-1000MHz



Above 1000MHz

