

APPLICATION FOR CERTIFICATION

On Behalf of

LG Electronics USA

Audio Data Transceiver RF Module

Model No. : LG-KS.WT0601

FCC ID : BEJ9QK-WT0601

Prepared for : LG Electronics USA
1000 Sylvan Avenue, Englewood Cliffs
New Jersey, United States

Prepared by : Audix Corporation
Technical Division EMC Department
No. 53-11, Tin-Fu Tsun, Lin-Kou,
Taipei County, Taiwan, R.O.C.

Tel : (02) 2609-9301, 2609-2133
Fax: (02) 2609-9303

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TEST REPORT CERTIFICATION

Applicant : LG Electronics USA
Manufacturer #1 : LG Electronics (Huizhou) Inc.
Manufacturer #2 : Shen Zhen Kwang Sung Electronics H.K CO., Ltd.
EUT Description : Audio Data Transceiver RF Module
FCC ID : BEJ9QK-WT0601
(A) MODEL NO. : LG-KS.WT0601
(B) SERIAL NO. : N/A
(C) BRAND : LG
(D) POWER SUPPLY : DC 5V
(E) TEST VOLTAGE : AC 120V/60Hz
(Via Audio Data Transceiver or
Interface Board)

Measurement Procedure Used:

FCC RULES AND REGULATIONS PART 15 SUBPART C, FEB. 2006
AND ANSI C63.4/2003

(FCC CFR 47 Part 15C, §15.205, §15.207, §15.209 and §15.247)

The device described above was tested by AUDIX Corporation to determine the maximum emission levels emanating from the device. The maximum emission levels were compared to the FCC Part 15 subpart C limits.

The measurement results are contained in this test report and AUDIX Corporation is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliant with the FCC official limits.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of AUDIX Corporation.

Date of Test: Feb. 20 ~ Mar. 03, 2006

Prepared by: Monica Chang Mar. 14, 2006
(Monica Chang/Administrator)

Test Engineer: Ben Cheng Mar. 14, 2006
(Ben Cheng/Section Manager)

Approved & Authorized Signer: Allen Wang Mar. 14, 2006
(Allen Wang/Manager)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Description	:	Audio Data Transceiver RF Module This EUT is installed in the Audio Data Transceiver - Transmitter (Model No: ACC36T, ACC76T or ACC96T.)
Model Number	:	LG-KS.WT0601
FCC ID	:	BEJ9QK-WT0601
Applicant	:	LG Electronics USA 1000 Sylvan Avenue, Englewood Cliffs New Jersey, United States
Manufacturer #1	:	LG Electronics (Huizhou) Inc. District 18, Zhongkai Hi-Tech Industry Development Zone, Huizhou, Guangdong, China.
Manufacturer #2	:	Shen Zhen Kwang Sung Electronics H.K Co., Ltd. Shitoushan Industrial Zone, Zhuan Chang Village, Shiyan Town, Baoan District, Shen Zhen City, Guang Dong Province, China.
Radio Technology	:	DSSS Modulation (802.11b)
Operating RF Frequency Band	:	2412MHz ~ 2467MHz (12 channels)
Tested Frequency Band	:	2412MHz, 2442MHz, 2467MHz
Antenna Gain	:	1.03dBi
Data Rate	:	up to 2Mbps (Note: The pre-testing of data rate of 1Mbps and 2Mbps has been performed to find the worst case for the final test. The test data in this report documents the worst case - 2Mbps.)
Date of Receipt of Sample	:	Feb. 20, 2006
Date of Test	:	Feb. 20 ~ Mar. 03, 2006

Remark:

Antenna requirement: This EUT's antenna is a fixed antenna and soldered on PCB, comply with §15.203 and inform to user that any change and modify is prohibited.

1.2. Tested Supporting System Details

【For Conducted, Radiated Emission Measurement】

1.2.1. AUDIO DATA TRANSCEIVER (TRANSMITTER) #1

Model Number : ACC36T
 Serial Number : N/A
 Manufacturer : LG

Audio Data Transceiver

RF Module (EUT) : LG, M/N LG-KS.WT0601
 AC Power Adapter : Tae Young, M/N TY-4000
 (2-Pin) AC Input: 100-240VAC, 1.0A, 50/60Hz
 DC Output: DC 7.5V, 1A
 I/O Power Cord: Non-Shielded, Undetachable, 1.2m
 O/P Power Cord: Non-Shielded, Undetachable, 1.2m

1.2.2. AUDIO DATA TRANSCEIVER (TRANSMITTER) #2

Model Number : ACC76T
 Serial Number : N/A
 Manufacturer : LG

Audio Data Transceiver

RF Module (EUT) : LG, M/N LG-KS.WT0601
 AC Power Adapter : Tae Young, M/N TY-4000
 (2-Pin) AC Input: 100-240VAC, 1.0A, 50/60Hz
 DC Output: DC 7.5V, 1A
 I/O Power Cord: Non-Shielded, Undetachable, 1.2m
 O/P Power Cord: Non-Shielded, Undetachable, 1.2m

1.2.3. AUDIO DATA TRANSCEIVER (TRANSMITTER) #3

Model Number : ACC96T
 Serial Number : N/A
 Manufacturer : LG

Audio Data Transceiver

RF Module (EUT) : LG, M/N LG-KS.WT0601
 AC Power Adapter : Tae Young, M/N TY-4000
 (2-Pin) AC Input: 100-240VAC, 1.0A, 50/60Hz
 DC Output: DC 7.5V, 1A
 I/O Power Cord: Non-Shielded, Undetachable, 1.2m
 O/P Power Cord: Non-Shielded, Undetachable, 1.2m

1.2.4. MP3 PLAYER (TO TRANSMITTER)

Model Number : MF-FE509
 Serial Number : N/A
 Manufacturer : LG
 USB to Audio Cable : USB Cable: Shielded, Detachable, 2.2m
 Audio Cable: Non-Shielded, Detachable, 1.5m

1.2.5. AUDIO DATA TRANSCEIVER (RECEIVER) #1 - USED FOR ACC36T

Model Number : ACC36R
 Serial Number : N/A
 Manufacturer : LG
 Power Cord : Non-Shielded, Undetachable, 2m

1.2.6. AUDIO DATA TRANSCEIVER (RECEIVER) #2 - USED FOR ACC76T

Model Number : ACC76R
 Serial Number : N/A
 Manufacturer : LG
 Power Cord : Non-Shielded, Undetachable, 2m

1.2.7. AUDIO DATA TRANSCEIVER (RECEIVER) #3 - USED FOR ACC96T

Model Number : ACC96R
 Serial Number : N/A
 Manufacturer : LG
 Power Cord : Non-Shielded, Undetachable, 2m

1.2.8. SPEAKER (4OHM, TO RECEIVER)

Model Number : MX-1705P
 Serial Number : N/A
 Manufacturer : CROWN
 Audio Cable : Non-Shielded, Undetachable, 2.1m
 (Left Speaker to Right Speaker)
 Audio Cable : Non-Shielded, Undetachable, 2.1m
 (To Receiver)

【For 6dB Bandwidth, Maximum Peak Output Power, Emission Limitations, Band Edges, Power Spectral Density, Occupied Bandwidth 99% Power Measurements】

1.2.9. INTERFACE BOARD

Model Number : N/A
 Model Number : KSM-WAT6
 Manufacturer : KWANG SUNG
 AC Power Adapter : Tae Young, M/N TY-4000
 (2-Pin) AC Input: 100-240VAC, 1.0A, 50/60Hz
 DC Output: DC 7.5V, 1A
 I/O Power Cord: Non-Shielded, Undetachable, 1.2m
 O/P Power Cord: Non-Shielded, Undetachable, 1.2m

1.3. Description of Test Facility

Name of Firm : **Audix Corporation**
Technical Division EMC Department
 No. 53-11, Tin-Fu Tsun, Lin-Kou Hsiang,
 Taipei County 24443, Taiwan, R.O.C.

Test Location & Facility (C2/AC) : **No. 2 Shielded Room**
 No. 53-11, Tin-Fu Tsun, Lin-Kou Hsiang,
 Taipei County 24443, Taiwan, R.O.C.

Semi-Anechoic Chamber
 No. 53-11, Tin-Fu Tsun, Lin-Kou Hsiang,
 Taipei County 24443, Taiwan, R.O.C.

May. 16, 2003 File on
 Federal Communication Commission
 Registration Number: 90993

NVLAP Lab. Code : 200077-0
 (NVLAP is a NATA accredited body under Mutual Recognition Agreement)

1.4. Measurement Uncertainty

Test Item	Frequency Range	Uncertainty (dB), (V/m)
Conduction Test	150kHz~30MHz	± 1.73dB
Radiation Test (Distance: 3m)	30MHz~300MHz	± 2.91dB
	300MHz~1000MHz	± 2.74dB
	Above 1GHz	± 5.02dB

Remark : Uncertainty = $k_{uc}(y)$

Test Item	Uncertainty
6dB Bandwidth	± 0.05kHz
Emission Limitations	± 0.13dB
Maximum Peak Output Power	± 0.33dBm
Band Edges	± 0.13dB
Power Spectral Density	± 0.13dB
Occupied Bandwidth 99% Power	± 0.05kHz

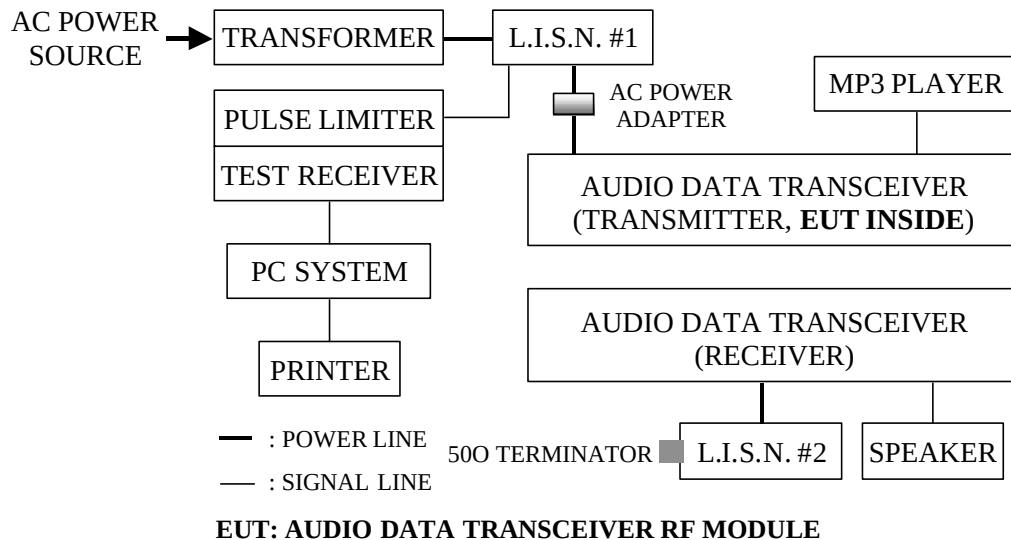
2. CONDUCTED EMISSION MEASUREMENT

2.1. Test Equipment

The following test equipment was used during the conducted emission measurement:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Test Receiver	R & S	ESCS30	100265	Sep. 27, 05'	Sep. 26, 06'
2.	L.I.S.N. #1	Kyoritsu	KNW-407	8-881-13	Apr. 20, 05'	Apr. 19, 06'
3.	L.I.S.N. #2	Kyoritsu	KNW-407	8-855-9	Apr. 20, 05'	Apr. 19, 06'
4.	Pulse Limiter	R & S	ESH3Z2	001	Apr. 09, 05'	Apr. 08, 06'

2.2. Block Diagram of Test Setup



2.3. Conducted Emission Limits (§15.207)

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level	Average Level
150kHz ~ 500kHz	66 ~ 56 dB μ V	56 ~ 46 dB μ V
500kHz ~ 5MHz	56 dB μ V	46 dB μ V
5MHz ~ 30MHz	60 dB μ V	50 dB μ V

2.4. Operating Condition of EUT

- 2.4.1. Setup the EUT and simulator as shown on 2.2.
- 2.4.2. Turned on the power of all equipment.
- 2.4.3. The MP3 Player played MP3 music file and sent audio signals to the audio data transceiver (Transmitter, EUT inside) during test.
- 2.4.4. The audio data transceiver (Transmitter, EUT inside) was set to continuously transmit signals at 2442MHz to the audio data transceiver (Receiver) during test.

2.5. Test Procedure

The audio data transceiver- transmitter (EUT inside) was put on table which was above the ground by 80cm and its AC Power Adapter was connected to the AC mains through a Artificial Mains Network (L.I.S.N.). Both sides of A.C. line were checked to find out the maximum emission level according to FCC ANSI C63.4-2003 regulations during conducted disturbance measurement.

The bandwidth of the R&S Test Receiver ESCS30 was set at 9kHz.

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

All the final readings from Test Receiver were measured with the Quasi-Peak detector and Average detector. (Remark: If the Average limit is met when using a Quasi-Peak detector, the Average detector is unnecessary)

2.6. Test Results

PASSED. All the emissions not reported below are too low against the prescribed limits.

The EUT was tested during test and all the test results are listed in next pages.

EUT : Audio Data Transceiver RF Module M/N : LG-KS.WT0601

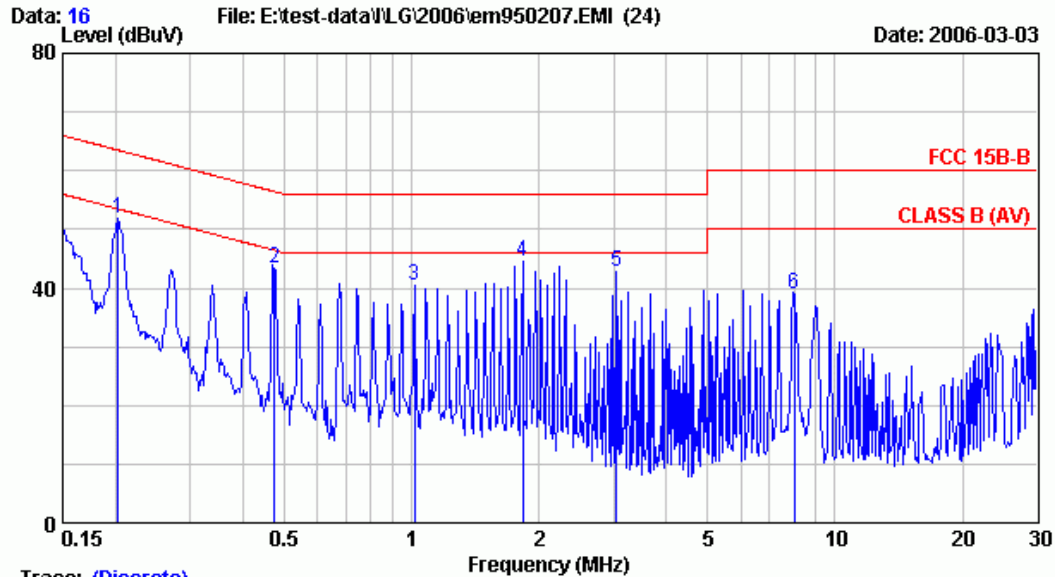
Test Date : Mar. 03, 2006 Temperature : 20°C Humidity : 63%

The details of test modes and reference test data are as follows:

Mode	The device is equipped with EUT.	Reference Test Data No.	
		Neutral	Line
1.	Transmitter, M/N ACC36T	# 16	# 15
2.	Transmitter, M/N ACC76T	# 13	# 14
3.	Transmitter, M/N ACC96T	# 8	# 7



AUDIX Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:02-26092133 Fax:02-26099303
Email:ttemc@ttemc.com.tw



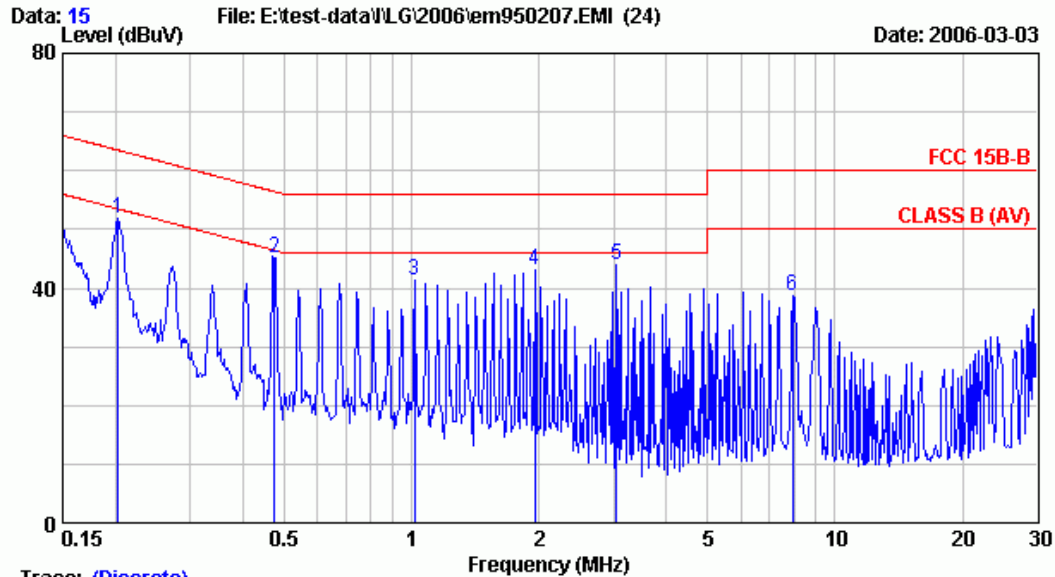
Site : No.2 Shielded room Data : 16
Condition : KHW-407 Phase : NEUTRAL
Limit : FCC 15B-B
Env. / Ins. : 20°C, 63% / ESCS 30 Engineer: Ada Huang
EUT : Audio Data Transceiver RF Module M/N: LG-KS.WT0601 (ACC36T)
Power Rating : 120vac/60Hz
Test Mode : operating

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dB μ V)	Emission Level (dB μ V)	Limits (dB μ V)	Margin (dB)	Remark
1	0.203	0.20	0.26	51.27	51.73	63.49	11.76	QP
2	0.474	0.10	0.34	42.98	43.42	56.45	13.04	QP
3	1.016	0.10	0.40	39.81	40.31	56.00	15.69	QP
4	1.829	0.10	0.40	43.97	44.47	56.00	11.53	QP
5	3.041	0.10	0.40	42.40	42.90	56.00	13.10	QP
6	8.020	0.10	0.63	38.37	39.10	60.00	20.90	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.



AUDIX Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:02-26092133 Fax:02-26099303
Email:ttemc@ttemc.com.tw



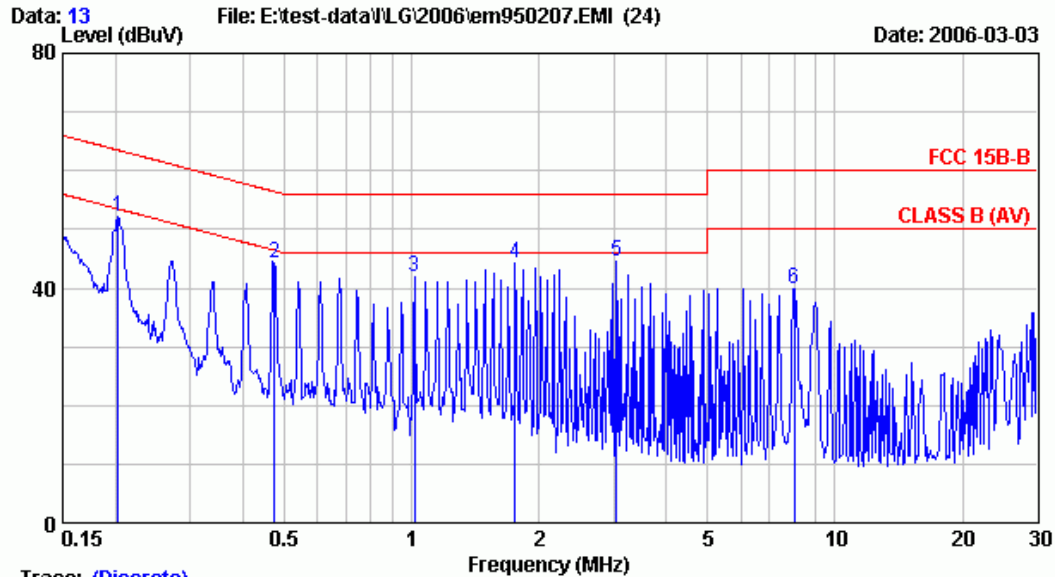
Site : No.2 Shielded room Data : 15
Condition : KHW-407 Phase : LINE
Limit : FCC 15B-B
Env. / Ins. : 20°C,63% / ESCS 30 Engineer: Ada Huang
EUT : Audio Data Transceiver RF Module M/N: LG-KS.WT0601 (ACC36T)
Power Rating : 120vac/60Hz
Test Mode : operating

		LISN	Cable		Emission			
Freq.	Factor	Loss	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB)	(dB)	(dB μ V)	(dB μ V)	(dB μ V)	(dB)		
1	0.203	0.20	0.26	51.33	51.79	63.49	11.70	QP
2	0.474	0.10	0.34	44.79	45.22	56.45	11.23	QP
3	1.016	0.10	0.40	40.87	41.37	56.00	14.63	QP
4	1.959	0.10	0.40	42.54	43.04	56.00	12.96	QP
5	3.041	0.10	0.40	43.46	43.96	56.00	12.04	QP
6	7.935	0.17	0.62	37.85	38.65	60.00	21.35	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.



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County, Taiwan R.O.C. Post Code:24443
Tel:02-26092133 Fax:02-26099303
Email:ttemc@ttemc.com.tw



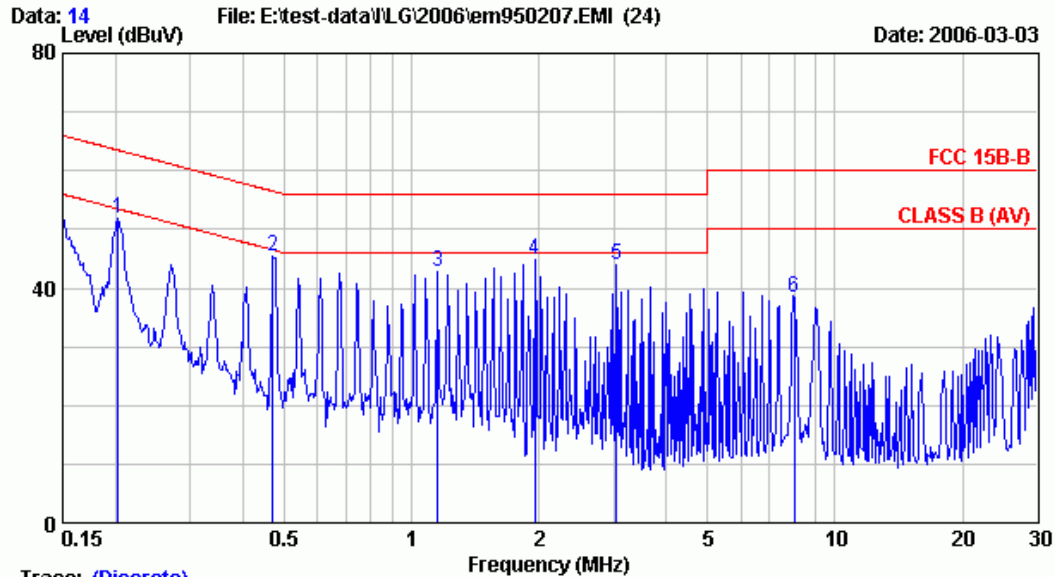
Site : No.2 Shielded room Data : 13
Condition : KHW-407 Phase : NEUTRAL
Limit : FCC 15B-B
Env. / Ins. : 20°C, 63% / ESCS 30 Engineer: Ada Huang (ACC76T)
EUT : Audio Data Transceiver
Power Rating : 120vac/60Hz
Test Mode : operating

	Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dB μ V)	Emission Level (dB μ V)	Limits (dB μ V)	Margin (dB)	Remark
1	0.203	0.20	0.26	51.67	52.13	63.49	11.36	QP
2	0.474	0.10	0.34	43.75	44.19	56.45	12.27	QP
3	1.016	0.10	0.40	41.47	41.97	56.00	14.03	QP
4	1.753	0.10	0.40	43.88	44.38	56.00	11.62	QP
5	3.041	0.10	0.40	43.98	44.48	56.00	11.52	QP
6	8.020	0.10	0.63	39.12	39.84	60.00	20.16	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.



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Email:ttemc@ttemc.com.tw



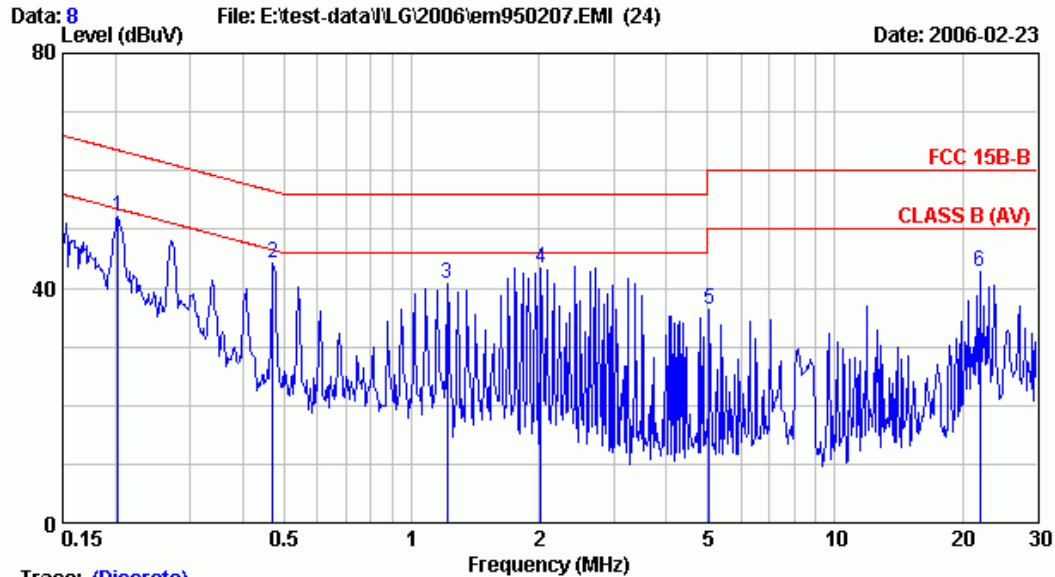
Site : No.2 Shielded room Data : 14
Condition : KHW-407 Phase : LINE
Limit : FCC 15B-B
Env. / Ins. : 20°C, 63% / ESCS 30 Engineer: Ada Huang
EUT : Audio Data Transceiver RF Module M/N: LG-KS.WT0601 (ACC76T)
Power Rating : 120vac/60Hz
Test Mode : operating

		LISN	Cable		Emission			
Freq.	Factor	Loss	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB)	(dB)	(dB μ V)	(dB μ V)	(dB μ V)	(dB)		
1	0.203	0.20	0.26	51.43	51.89	63.49	11.60	QP
2	0.471	0.10	0.33	44.86	45.29	56.49	11.20	QP
3	1.153	0.10	0.40	42.14	42.64	56.00	13.36	QP
4	1.959	0.10	0.40	44.27	44.77	56.00	11.23	QP
5	3.041	0.10	0.40	43.38	43.88	56.00	12.12	QP
6	8.020	0.18	0.63	37.64	38.44	60.00	21.56	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.



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County, Taiwan R.O.C. Post Code:24443
Tel:02-26092133 Fax:02-26099303
Email:ttemc@ttemc.com.tw



Trace: (Discrete)

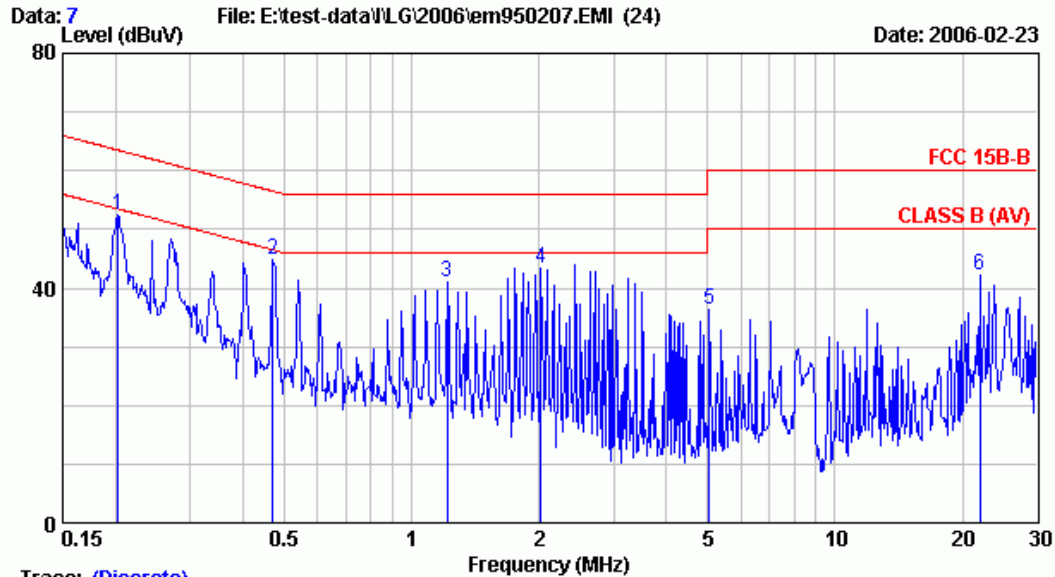
Site	: No.2 Shielded room	Data	: 8
Condition	: KHW-407	Phase	: NEUTRAL
Limit	: FCC 15B-B		
Env. / Ins.	: 20°C, 63% / ESCS 30	Engineer:	: Ada Huang
EUT	: Audio Data Transceiver RF Module M/N: LG-KS.WT0601 (ACC96T)		
Power Rating	: 120vac/60Hz		
Test Mode	: operating		

		LISN	Cable		Emission			
Freq.	Factor	Loss	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB)	(dB)	(dB μ V)	(dB μ V)	(dB μ V)	(dB)		
1	0.203	0.20	0.26	51.75	52.21	63.49	11.28	QP
2	0.471	0.10	0.33	43.68	44.11	56.49	12.38	QP
3	1.216	0.10	0.40	40.36	40.86	56.00	15.14	QP
4	2.023	0.10	0.40	42.91	43.41	56.00	12.59	QP
5	5.058	0.10	0.48	35.88	36.45	60.00	23.55	QP
6	21.946	0.34	0.70	41.88	42.92	60.00	17.08	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.



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Email:ttemc@ttemc.com.tw



Site : No.2 Shielded room Data : 7
Condition : KHW-407 Phase : LINE
Limit : FCC 15B-B
Env. / Ins. : 20°C,63% / ESCS 30 Engineer: Ada Huang
EUT : Audio Data Transceiver RF Module M/N: LG-KS.WT0601 (ACC96T)
Power Rating : 120vac/60Hz
Test Mode : operating

		LISN	Cable		Emission			
Freq.	Factor	Loss	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB)	(dB)	(dB μ V)	(dB μ V)	(dB μ V)	(dB)		
1	0.203	0.20	0.26	51.95	52.41	63.49	11.08	QP
2	0.471	0.10	0.33	44.54	44.97	56.49	11.52	QP
3	1.216	0.10	0.40	40.67	41.17	56.00	14.83	QP
4	2.023	0.10	0.40	42.91	43.41	56.00	12.59	QP
5	5.058	0.13	0.48	35.85	36.45	60.00	23.55	QP
6	21.946	0.38	0.70	41.13	42.21	60.00	17.79	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.

3. RADIATED EMISSION MEASUREMENT

3.1. Test Equipment

The following test equipment was used during the radiated emission measurement:

3.1.1. For Frequency Range 30MHz-1000MHz (Semi-Anechoic Chamber)

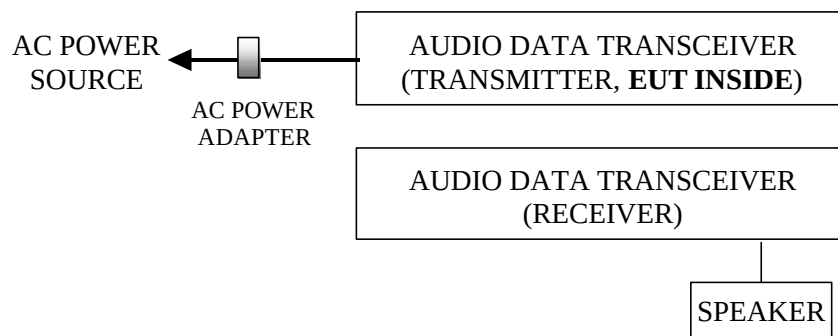
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	HP	8593EM	3826A00248	Sep. 26, 05'	Sep. 25, 06'
2.	Test Receiver	R&S	ESCS30	100339	Apr. 08, 05'	Apr. 07, 06'
3.	Pre-Amplifier	HP	8447D	2944A06305	Mar. 10, 05'	Mar. 09, 06'
4.	Biconical Antenna	CHASE	VBA6106A	1264	Nov. 11, 05'	Nov. 10, 06'
5.	Broadband Antenna	Schwarzbeck	UHALP9108-A	0139	Dec. 14, 05'	Dec. 13, 06'

3.1.2. For Frequency Above 1GHz (Semi-Anechoic Chamber)

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	HP	8593EM	3826A00248	Sep. 26, 05'	Sep. 25, 06'
2.	Spectrum Analyzer	HP	8564EC	3946A00249	Nov. 21, 05'	Nov. 20, 06'
3.	Amplifier	HP	8449B	3008A00529	Jan. 10, 06'	Jan. 09, 07'
4.	Horn Antenna	EMCO	3115	9112-3775	May 04, 05'	May 03, 06'
5.	Horn Antenna	EMCO	3116	2653	Oct. 13, 05'	Oct. 12, 06'

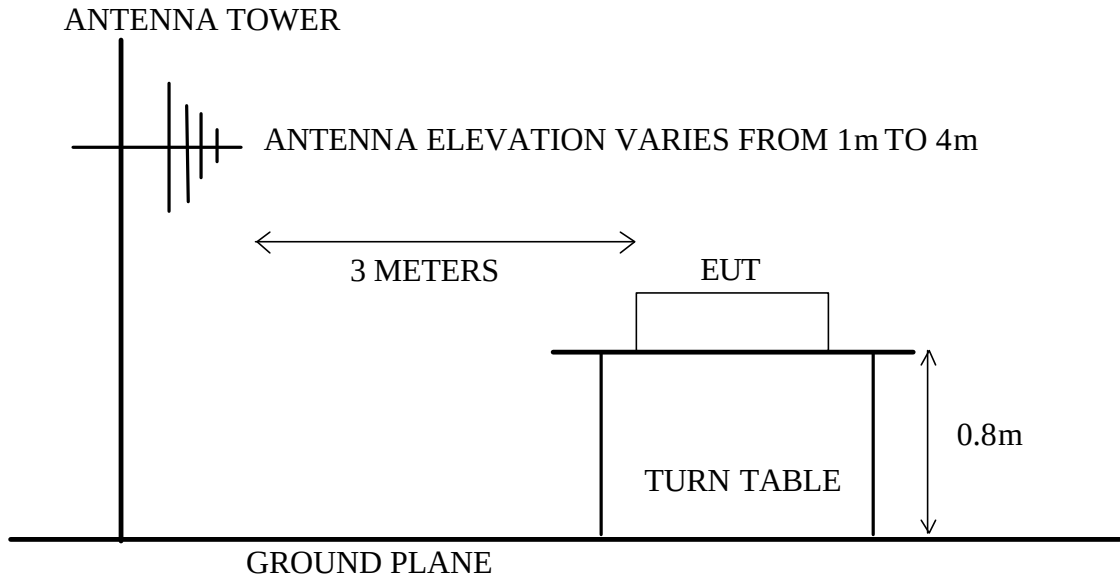
3.2. Test Setup

3.2.1. Block Diagram of connection between EUT and simulators



EUT: AUDIO DATA TRANSCEIVER RF MODULE

3.2.2. Semi-Anechoic Chamber (3m) Setup Diagram



3.3. Radiated Emission Limits (§15.209)

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMITS	
		$\mu\text{V/m}$	$\text{dB}\mu\text{V/m}$
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
Above 960	3	500	54.0
Above 1000	3	74.0 $\text{dB}\mu\text{V/m}$ (Peak) 54.0 $\text{dB}\mu\text{V/m}$ (Average)	

- Remark :
- (1) Emission level ($\text{dB}\mu\text{V/m}$) = $20 \log$ Emission level ($\mu\text{V/m}$)
 - (2) The tighter limit applies at the edge between two frequency bands.
 - (3) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

3.4. Operating Condition of EUT

- 3.4.1. Setup the EUT and simulator as shown on 3.2.
- 3.4.2. Turned on the power of all equipment.
- 3.4.3. Transmitting Mode: The audio data transceiver (Transmitter, EUT inside) was set to continuously transmit signals at 2412MHz, 2442MHz and 2467MHz to the audio data transceiver (Receiver) during test.
- 3.4.4. Receiving Mode: The audio data transceiver (Transmitter, EUT inside) was set to continuously receive signals at 2442MHz during test.

3.5. Test Procedure

The audio data transceiver- transceiver (EUT inside) and its simulators were placed on a turn table which was 0.8 meter above the ground. The turn table rotated 360 degrees to determine the position of the maximum emission level. EUT was set 3 meters away from the receiving antenna which was mounted on a antenna tower. The antenna moved up and down between 1 to 4 meters to find out the maximum emission level. Broadband antenna such as calibrated biconical and log- periodical antenna or horn antenna were used as a receiving antenna. Both horizontal and vertical polarization of the antenna were set on measurement. In order to find the maximum emission, all of the interface cables were manipulated according to FCC ANSI C63.4-2003 regulation.

For frequency range 30MHz-1000MHz:

The bandwidth of the R&S Test Receiver ESCS30 was set at 120kHz.

For frequency above 1GHz:

Bandwidth	HP Spectrum Analyzer 8593EM or 8564EC	
	Peak	Average
Resolution Bandwidth	1MHz	1MHz
Video Bandwidth	1MHz	10Hz

The frequency range from 30MHz to 25GHz (Up to 10th harmonics from fundamental frequency) was checked.

3.6. Test Results

PASSED. All the emissions not reported below are too low against the official limits.

EUT: Audio Data Transceiver RF Module

M/N: LG-KS.WT0601

Test Date: Feb. 27, 2006 Temperature: 21 °C

Humidity: 50 %

Test Date: Mar. 01, 2006 Temperature: 21 °C

Humidity: 50 %

Test Date: Feb. 20, 2006 Temperature: 16 °C

Humidity: 62 %

For Frequency Range 30MHz-1000MHz:

The EUT was tested with the following test modes in frequency range of 30MHz-1000MHz and all the test results are listed in section 3.6.1.

Mode	The device is equipped with the EUT.	Operation	Channel	Frequency
1.	Transmitter, M/N ACC36T	Transmitting	1	2412MHz
2.			7	2442MHz
3.			12	2467MHz
4.	Transmitter, M/N ACC76T	Transmitting	1	2412MHz
5.			7	2442MHz
6.			12	2467MHz
7.	Transmitter, M/N ACC96T	Transmitting	1	2412MHz
8.			7	2442MHz
9.			12	2467MHz
10.	Transmitter, M/N ACC36T	Receiving	7	2442MHz
11.	Transmitter, M/N ACC76T	Receiving	7	2442MHz
12.	Transmitter, M/N ACC96T	Receiving	7	2442MHz

Note: For receiving mode, the pre-testing of three channels (1, 7, 12) has been performed to find the worst case for the final test. The test data in this report documents the worst case - channel 7.

For Frequency above 1GHz:

The EUT was tested with the following test modes in frequency above 1GHz and the measurement was up to 25GHz. The readings are not reported because the emission readings are too low to be read. (The emission levels that are 20dB below the official limit are not reported).

Mode	The device is equipped with the EUT.	Operation	Channel	Frequency
1.	Transmitter, M/N ACC36T	Transmitting	1	2412MHz
2.			7	2442MHz
3.			12	2467MHz
4.	Transmitter, M/N ACC76T	Transmitting	1	2412MHz
5.			7	2442MHz
6.			12	2467MHz
7.	Transmitter, M/N ACC96T	Transmitting	1	2412MHz
8.			7	2442MHz
9.			12	2467MHz
10.	Transmitter, M/N ACC36T	Receiving	7	2442MHz
11.	Transmitter, M/N ACC76T	Receiving	7	2442MHz
12.	Transmitter, M/N ACC96T	Receiving	7	2442MHz

For Restricted Bands:

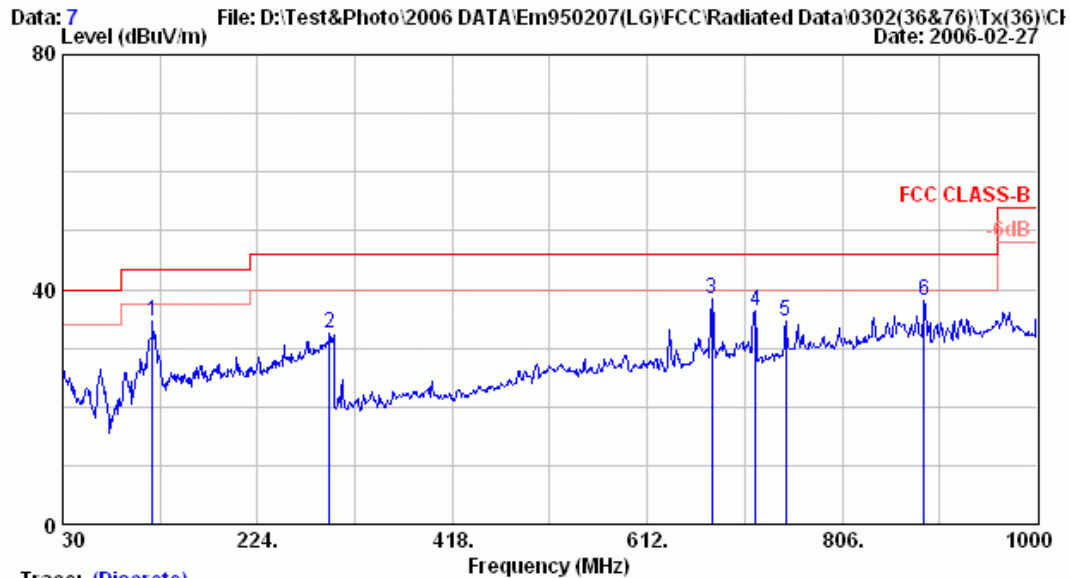
The EUT was tested in restricted bands and all the test results are listed in section 3.6.2. (The restricted bands are defined in part 15.205(a))

Mode	The device is equipped with EUT.	Channel	Frequency
1.	Transmitter, M/N ACC36T	1	2412MHz
2.		12	2467MHz
3.	Transmitter, M/N ACC76T	1	2412MHz
4.		12	2467MHz
5.	Transmitter, M/N ACC96T	1	2412MHz
6.		12	2467MHz

3.6.1. Frequency Range 30-3000MHz



AUDIX Corp. EMC Laboratory
 No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code:24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:ttemc@ttemc.com.tw



Trace: (Discrete)

Site no. : A/C Chamber Data no. : 7
 Dis. / Ant. : 3m VBA6106A/UHALP9108-A Ant. pol. : HORIZONTAL
 Limit : FCC CLASS-B
 Env. / Ins. : 8593EM 21.0°C/50.0% Engineer : Alvin_Yang
 EUT : Audio Data Transceiver RF Module
 Power Rating : 120Vac/60Hz M/N:LG-KS.WT0601(ACC36T)
 Test Mode : TX:CH1

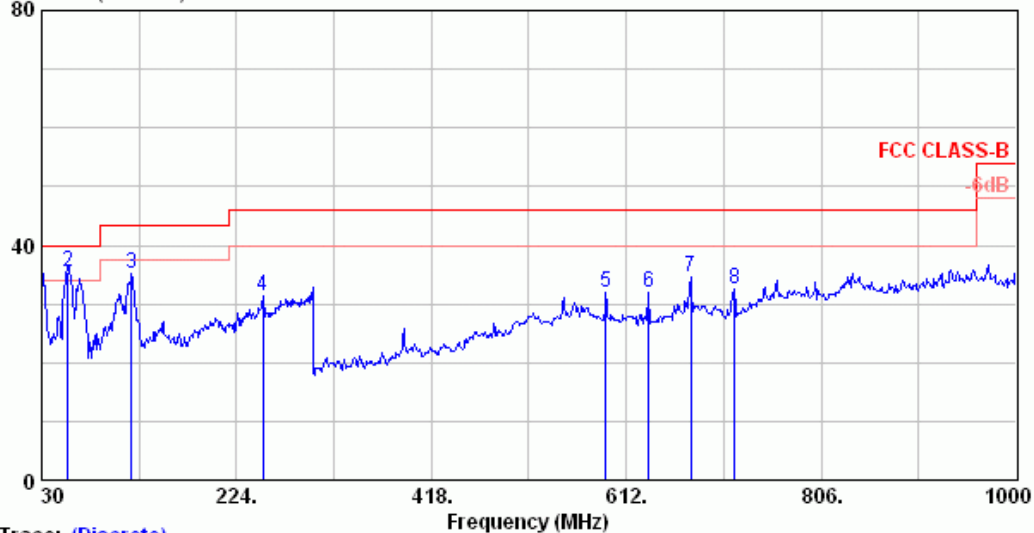
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	119.240	19.02	2.30	13.17	34.49	43.50	9.01	QP
2	295.780	26.48	4.00	2.07	32.54	46.00	13.46	QP
3	676.020	22.89	6.40	9.00	38.28	46.00	7.72	QP
4	719.670	22.30	6.60	7.57	36.47	46.00	9.53	QP
5	749.740	23.25	6.70	4.76	34.71	46.00	11.29	QP
6	887.480	25.16	7.30	5.61	38.07	46.00	7.93	QP

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



AUDIX Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email:ttmc@ttmc.com.tw

Data: 8 File: D:\Test&Photo\2006 DATA\Em950207(LG)\FCC\Radiated Data\0302(36&76)\Tx(36)\Cl
Level (dBuV/m) Date: 2006-02-27



Trace: (Discrete)

Site no. : A/C Chamber Data no. : 8
Dis. / Ant. : 3m VBA6106A/UHALP9108-A Ant. pol. : VERTICAL
Limit : FCC CLASS-B
Env. / Ins. : 8593EM 21.0°C/50.0% Engineer : Alvin_Yang
EUT : Audio Data Transceiver RF Module
Power Rating : 120Vac/60Hz M/N:LG-KS.WT0601(ACC36T)
Test Mode : TX:CH1

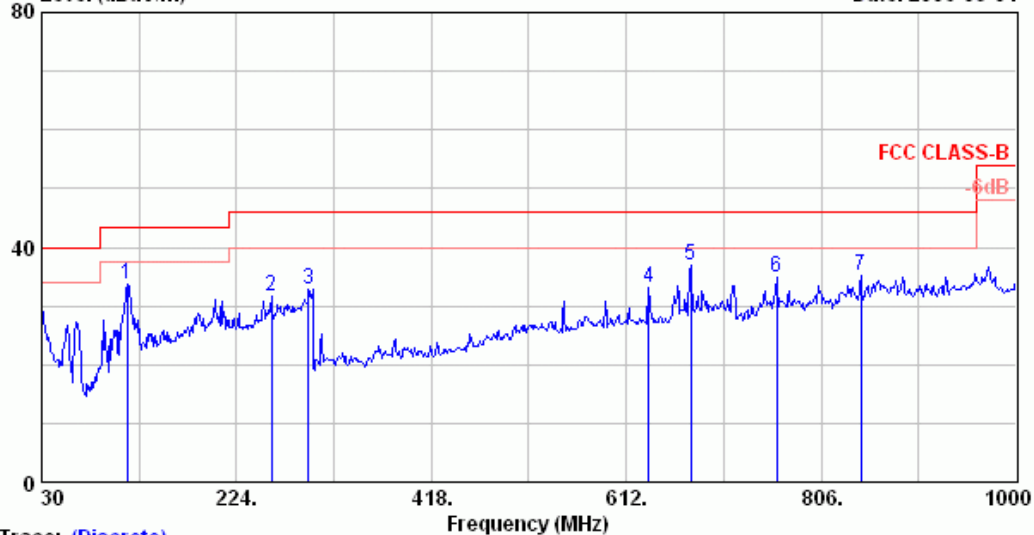
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	30.000	23.60	1.10	9.74	34.44	40.00	5.56	QP
2	56.190	14.21	1.60	19.67	35.48	40.00	4.52	QP
3	119.240	17.53	2.30	15.42	35.25	43.50	8.25	QP
4	250.190	25.02	3.50	2.71	31.23	46.00	14.77	QP
5	591.630	21.48	6.20	4.36	32.04	46.00	13.96	QP
6	634.310	21.13	6.30	4.61	32.04	46.00	13.96	QP
7	676.020	23.29	6.40	4.94	34.63	46.00	11.37	QP
8	719.670	22.04	6.60	4.01	32.66	46.00	13.34	QP

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



AUDIX Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email:ttemc@ttemc.com.tw

Data: 7 File: D:\Test&Photo\2006 DATA\Em950207(LG)\FCC\Radiated Data\0302(36&76)\Tx(36)\Cl
Level (dBuV/m) Date: 2006-03-01



Trace: (Discrete)

Site no. : A/C Chamber Data no. : 7
Dis. / Ant. : 3m VBA6106A/UHALP9108-A Ant. pol. : HORIZONTAL
Limit : FCC CLASS-B
Env. / Ins. : 8593EM 21°C/50% Engineer : Alvin_Yang
EUT : Audio Data Transceiver RF Module
Power Rating : 120Vac/60Hz M/N:LG-KS.WT0601(ACC36T)
Test Mode : TX:CH7

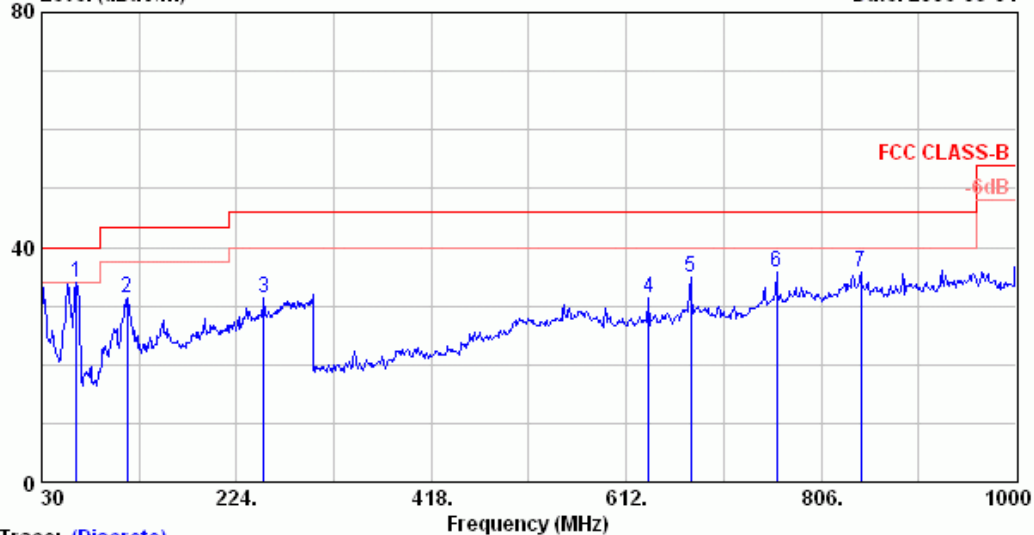
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	115.360	18.69	2.30	12.84	33.83	43.50	9.67	QP
2	258.920	24.53	3.50	3.53	31.55	46.00	14.45	QP
3	295.780	26.48	4.00	2.47	32.94	46.00	13.06	QP
4	634.310	20.94	6.30	5.82	33.07	46.00	12.93	QP
5	676.020	22.89	6.40	7.57	36.85	46.00	9.15	QP
6	761.380	23.68	6.70	4.47	34.85	46.00	11.15	QP
7	845.770	25.35	7.10	2.82	35.27	46.00	10.73	QP

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



AUDIX Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email:ttemc@ttemc.com.tw

Data: 8 File: D:\Test&Photo\2006 DATA\Em950207(LG)\FCC\Radiated Data\0302(36&76)\Tx(36)\Cl
Level (dBuV/m) Date: 2006-03-01



Trace: (Discrete)

Site no. : A/C Chamber Data no. : 8
Dis. / Ant. : 3m VBA6106A/UHALP9108-A Ant. pol. : VERTICAL
Limit : FCC CLASS-B
Env. / Ins. : 8593EM 21°C/50% Engineer : Alvin_Yang
EUT : Audio Data Transceiver RF Module
Power Rating : 120Vac/60Hz M/N:LG-KS.WT0601(ACC36T)
Test Mode : TX:CH7

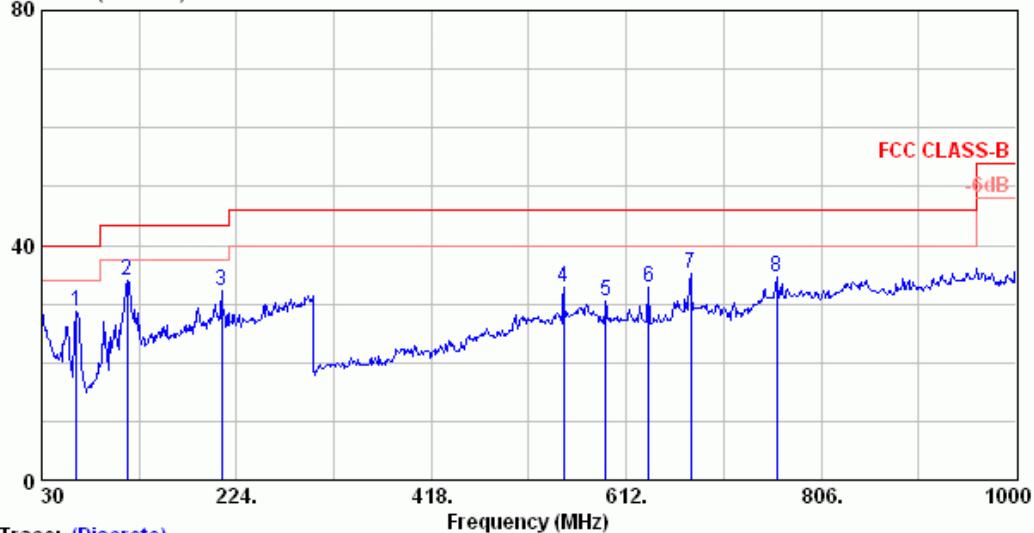
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	64.920	12.84	1.70	19.57	34.11	40.00	5.89	QP
2	115.360	17.52	2.30	11.64	31.46	43.50	12.04	QP
3	251.160	24.92	3.50	2.94	31.35	46.00	14.65	QP
4	634.310	21.13	6.30	3.91	31.34	46.00	14.66	QP
5	676.020	23.29	6.40	5.15	34.84	46.00	11.16	QP
6	761.380	24.91	6.70	4.02	35.62	46.00	10.38	QP
7	845.770	26.61	7.10	2.13	35.85	46.00	10.15	QP

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



AUDIX Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email:temc@ttemc.com.tw

Data: 7 File: D:\Test&Photo\2006 DATA\Em950207(LG)\FCC\Radiated Data\0302(36&76)\Tx(36)\Cl
Level (dBuV/m) Date: 2006-03-01



Trace: (Discrete)

Site no. : A/C Chamber Data no. : 7
Dis. / Ant. : 3m VBA6106A/UHALP9108-A Ant. pol. : HORIZONTAL
Limit : FCC CLASS-B
Env. / Ins. : 8593EM 21°C/50% Engineer : Alvin_Yang
EUT : Audio Data Transceiver RF Module
Power Rating : 120Vac/60Hz M/N:LG-KS.WT0601(ACC36T)
Test Mode : TX: CH12

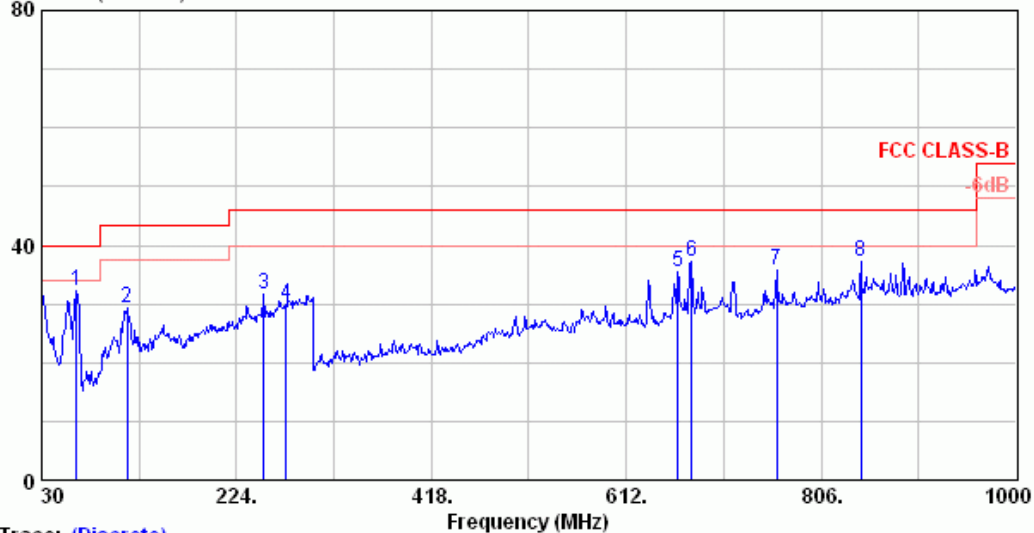
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	64.920	11.81	1.70	15.22	28.73	40.00	11.27	QP
2	115.360	18.69	2.30	13.03	34.02	43.50	9.48	QP
3	209.450	21.81	3.16	7.30	32.26	43.50	11.24	QP
4	549.920	19.09	6.80	6.89	32.77	46.00	13.23	QP
5	591.630	20.98	6.20	3.23	30.41	46.00	15.59	QP
6	634.310	20.94	6.30	5.59	32.83	46.00	13.17	QP
7	676.020	22.89	6.40	5.94	35.23	46.00	10.77	QP
8	761.380	23.68	6.70	4.25	34.63	46.00	11.37	QP

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



AUDIX Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email:ttmc@ttmc.com.tw

Data: 8 File: D:\Test&Photo\2006 DATA\Em950207(LG)\FCC\Radiated Data\0302(36&76)\Tx(36)\Cl
Level (dBuV/m) Date: 2006-03-01



Trace: (Discrete)

Site no. : A/C Chamber Data no. : 8
Dis. / Ant. : 3m VBA6106A/UHALP9108-A Ant. pol. : VERTICAL
Limit : FCC CLASS-B
Env. / Ins. : 8593EM 21°C/50% Engineer : Alvin_Yang
EUT : Audio Data Transceiver RF Module
Power Rating : 120Vac/60Hz M/N:LG-KS.WT0601(ACC36T)
Test Mode : TX: CH12

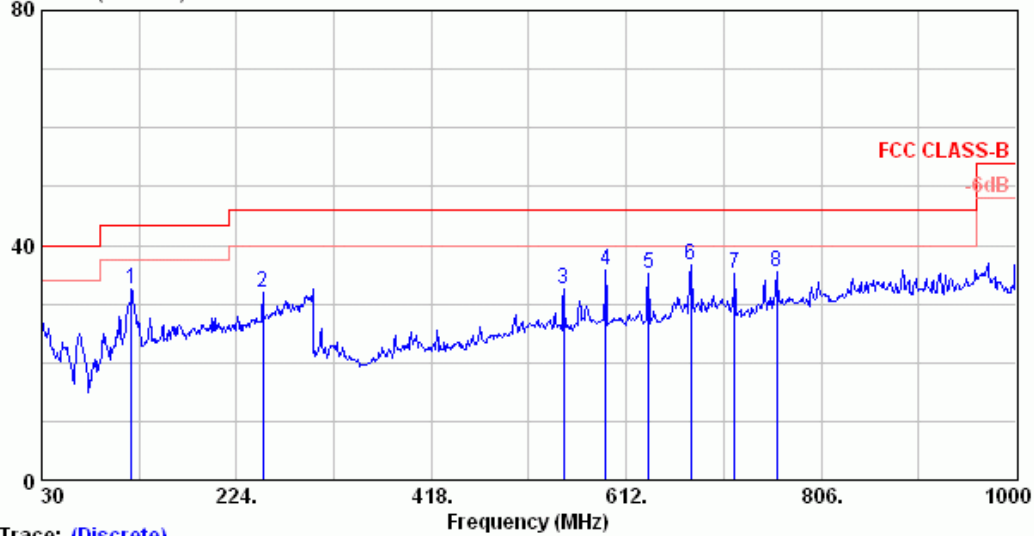
		Ant.	Cable		Emission			
Freq.	Factor	Loss	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	64.920	12.84	1.70	17.71	32.25	40.00	7.75	QP
2	115.360	17.52	2.30	9.46	29.28	43.50	14.22	QP
3	251.160	24.92	3.50	3.27	31.68	46.00	14.32	QP
4	273.470	25.90	3.70	0.37	29.97	46.00	16.03	QP
5	663.410	22.22	6.32	7.00	35.54	46.00	10.46	QP
6	676.990	23.38	6.40	7.38	37.17	46.00	8.83	QP
7	761.380	24.91	6.70	4.09	35.70	46.00	10.30	QP
8	845.770	26.61	7.10	3.50	37.21	46.00	8.79	QP

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



AUDIX Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email:ttemc@ttemc.com.tw

Data: 8 File: D:\Test&Photo\2006 DATA\Em950207(LG)\FCC\Radiated Data\0302(36&76)\Tx(76)\Cl
Level (dBuV/m) Date: 2006-02-27



Trace: (Discrete)

Site no. : A/C Chamber Data no. : 8
Dis. / Ant. : 3m VBA6106A/UHALP9108-A Ant. pol. : HORIZONTAL
Limit : FCC CLASS-B
Env. / Ins. : 8593EM 21.0°C/50.0% Engineer : Alvin_Yang
EUT : Audio Data Transceiver RF Module
Power Rating : 120Vac/60Hz M/N:LG-KS.WT0601(ACC76T)
Test Mode : TX:CH1

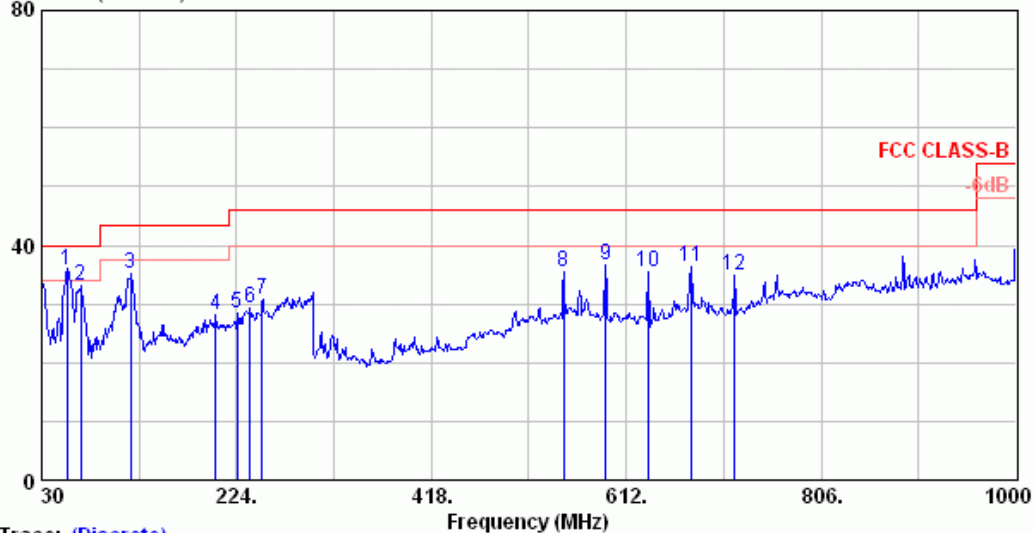
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	119.240	19.02	2.30	11.16	32.48	43.50	11.02	QP
2	250.190	23.83	3.50	4.65	31.98	46.00	14.02	QP
3	549.920	19.09	6.80	6.52	32.41	46.00	13.59	QP
4	591.630	20.98	6.20	8.49	35.67	46.00	10.33	QP
5	634.310	20.94	6.30	7.88	35.13	46.00	10.87	QP
6	676.020	22.89	6.40	7.43	36.71	46.00	9.29	QP
7	719.670	22.30	6.60	6.22	35.12	46.00	10.88	QP
8	761.380	23.68	6.70	5.03	35.41	46.00	10.59	QP

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



AUDIX Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email:ttmc@ttmc.com.tw

Data: 7 File: D:\Test&Photo\2006 DATA\Em950207(LG)\FCC\Radiated Data\0302(36&76)\Tx(76)\Cl
Level (dBuV/m) Date: 2006-02-27



Trace: (Discrete)

Site no. : A/C Chamber Data no. : 7
Dis. / Ant. : 3m VBA6106A/UHALP9108-A Ant. pol. : VERTICAL
Limit : FCC CLASS-B
Env. / Ins. : 8593EM 21.0°C/50.0% Engineer : Alvin_Yang
EUT : Audio Data Transceiver RF Module
Power Rating : 120Vac/60Hz M/N:LG-KS.WT0601(ACC76T)
Test Mode : TX:CH1

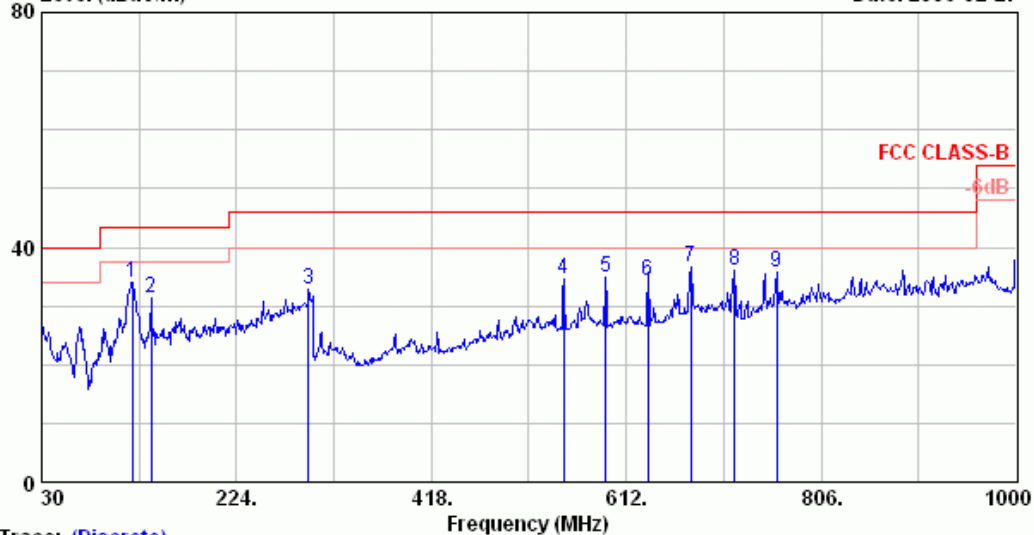
		Ant.	Cable		Emission			
Freq.	Factor	Loss	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	55.110	14.36	1.50	20.01	35.87	40.00	4.13	QP
2	68.610	12.39	1.70	19.04	33.13	40.00	6.87	QP
3	118.830	17.53	2.30	15.42	35.25	43.50	8.25	QP
4	203.340	22.63	3.10	2.42	28.15	43.50	15.35	QP
5	224.940	22.29	3.30	2.86	28.44	46.00	17.56	QP
6	237.090	24.51	3.40	1.46	29.37	46.00	16.63	QP
7	249.780	25.02	3.50	2.39	30.91	46.00	15.09	QP
8	549.920	21.38	6.80	7.36	35.54	46.00	10.46	QP
9	591.630	21.48	6.20	8.89	36.57	46.00	9.43	QP
10	634.310	21.13	6.30	7.92	35.35	46.00	10.65	QP
11	676.020	23.29	6.40	6.52	36.21	46.00	9.79	QP
12	719.670	22.04	6.60	6.37	35.02	46.00	10.98	QP

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



AUDIX Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email:ttemc@ttemc.com.tw

Data: 7 File: D:\Test&Photo\2006 DATA\Em950207(LG)\FCC\Radiated Data\0302(36&76)\Tx(76)\Cl
Level (dBuV/m) Date: 2006-02-27



Trace: (Discrete)

Site no. : A/C Chamber Data no. : 7
Dis. / Ant. : 3m VBA6106A/UHALP9108-A Ant. pol. : HORIZONTAL
Limit : FCC CLASS-B
Env. / Ins. : 8593EM 21.0°C/50.0% Engineer : Alvin_Yang
EUT : Audio Data Transceiver RF Module
Power Rating : 120Vac/60Hz M/N:LG-KS.WT0601(ACC76T)
Test Mode : TX:CH7

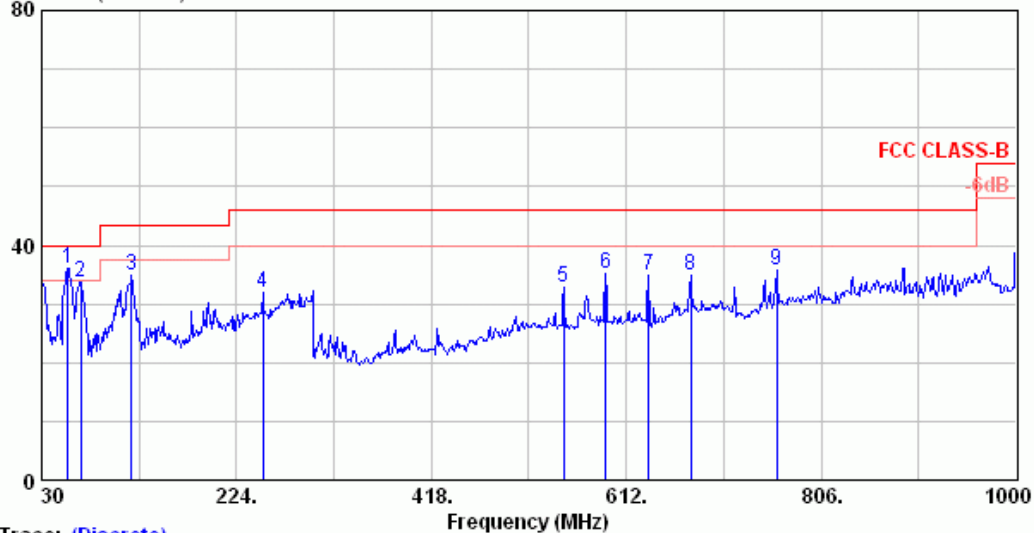
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	120.210	19.08	2.30	12.59	33.97	43.50	9.53	QP
2	138.640	20.06	2.50	8.68	31.24	43.50	12.26	QP
3	295.780	26.48	4.00	2.21	32.68	46.00	13.32	QP
4	549.920	19.09	6.80	8.76	34.65	46.00	11.35	QP
5	591.630	20.98	6.20	7.83	35.01	46.00	10.99	QP
6	633.340	20.95	6.30	6.96	34.20	46.00	11.80	QP
7	676.020	22.89	6.40	7.31	36.59	46.00	9.41	QP
8	719.670	22.30	6.60	7.13	36.03	46.00	9.97	QP
9	761.380	23.68	6.70	5.50	35.88	46.00	10.12	QP

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



AUDIX Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email:ttmc@ttmc.com.tw

Data: 8 File: D:\Test&Photo\2006 DATA\Em950207(LG)\FCC\Radiated Data\0302(36&76)\Tx(76)\Cl
Level (dBuV/m) Date: 2006-02-27



Trace: (Discrete)

Site no. : A/C Chamber Data no. : 8
Dis. / Ant. : 3m VBA6106A/UHALP9108-A Ant. pol. : VERTICAL
Limit : FCC CLASS-B
Env. / Ins. : 8593EM 21.0°C/50.0% Engineer : Alvin_Yang
EUT : Audio Data Transceiver RF Module
Power Rating : 120Vac/60Hz M/N:LG-KS.WT0601(ACC76T)
Test Mode : TX:CH7

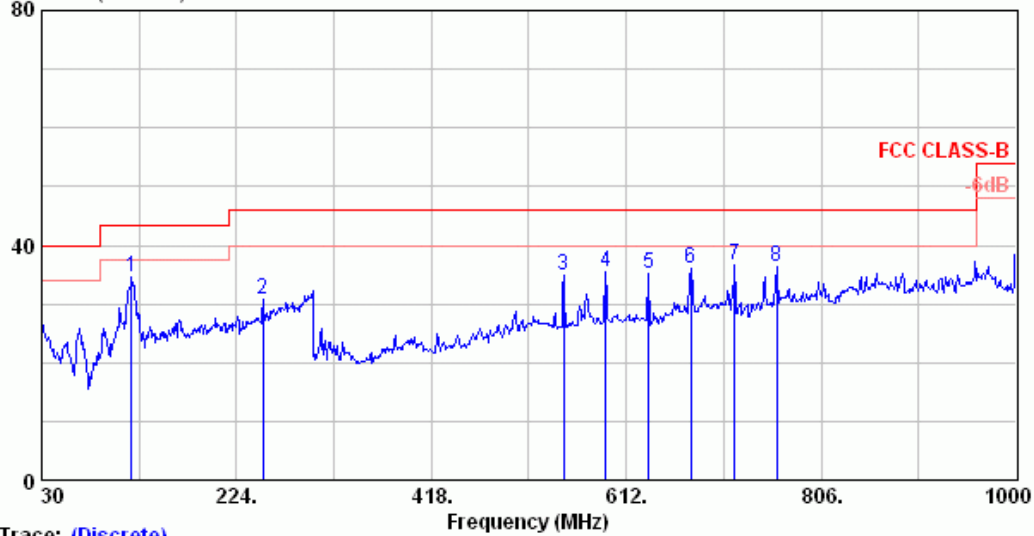
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	56.190	14.21	1.60	20.38	36.19	40.00	3.81	QP
2	68.800	12.39	1.70	19.74	33.83	40.00	6.17	QP
3	119.240	17.53	2.30	15.01	34.84	43.50	8.66	QP
4	250.190	25.02	3.50	3.43	31.95	46.00	14.05	QP
5	549.920	21.38	6.80	4.65	32.83	46.00	13.17	QP
6	591.630	21.48	6.20	7.48	35.16	46.00	10.84	QP
7	634.310	21.13	6.30	7.47	34.90	46.00	11.10	QP
8	676.020	23.29	6.40	5.31	35.00	46.00	11.00	QP
9	761.380	24.91	6.70	4.02	35.63	46.00	10.37	QP

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



AUDIX Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email:ttemc@ttemc.com.tw

Data: 8 File: D:\Test&Photo\2006 DATA\Em950207(LG)\FCC\Radiated Data\0302(36&76)\Tx(76)\Cl
Level (dBuV/m) Date: 2006-02-27



Trace: (Discrete)

Site no. : A/C Chamber Data no. : 8
Dis. / Ant. : 3m VBA6106A/UHALP9108-A Ant. pol. : HORIZONTAL
Limit : FCC CLASS-B
Env. / Ins. : 8593EM 21.0°C/50.0% Engineer : Alvin_Yang
EUT : Audio Data Transceiver RF Module
Power Rating : 120Vac/60Hz M/N:LG-KS.WT0601(ACC76T)
Test Mode : TX: CH12

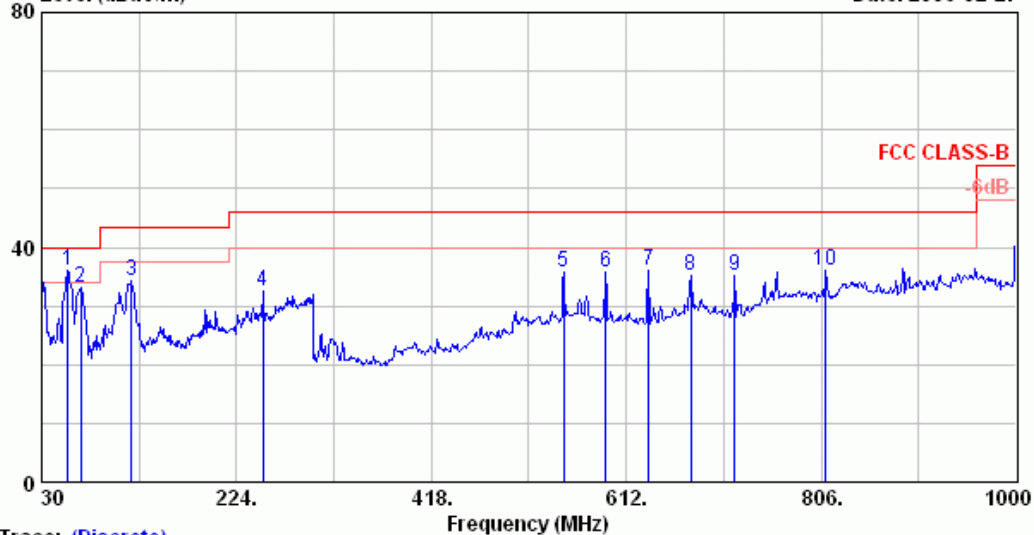
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	119.240	19.02	2.30	13.24	34.56	43.50	8.94	QP
2	250.190	23.83	3.50	3.39	30.72	46.00	15.28	QP
3	549.920	19.09	6.80	8.93	34.82	46.00	11.18	QP
4	591.630	20.98	6.20	8.21	35.39	46.00	10.61	QP
5	634.310	20.94	6.30	7.90	35.15	46.00	10.85	QP
6	676.020	22.89	6.40	6.73	36.01	46.00	9.99	QP
7	719.670	22.30	6.60	7.66	36.56	46.00	9.44	QP
8	761.380	23.68	6.70	5.83	36.21	46.00	9.79	QP

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



AUDIX Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email:temc@temc.com.tw

Data: 7 File: D:\Test&Photo\2006 DATA\Em950207(LG)\FCC\Radiated Data\0302(36&76)\Tx(76)\Cl
Level (dBuV/m) Date: 2006-02-27



Trace: (Discrete)

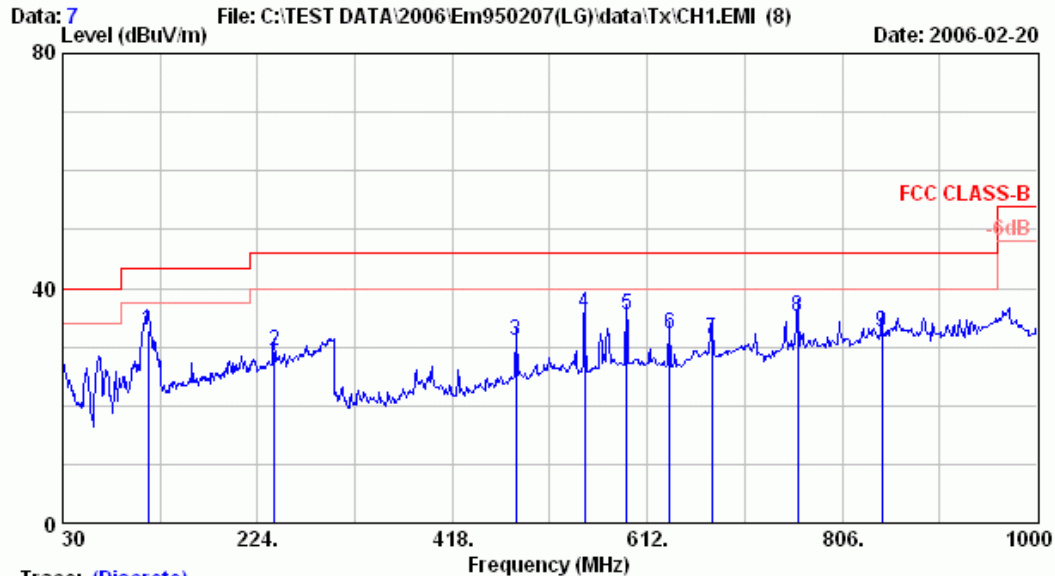
Site no. : A/C Chamber Data no. : 7
Dis. / Ant. : 3m VBA6106A/UHALP9108-A Ant. pol. : VERTICAL
Limit : FCC CLASS-B
Env. / Ins. : 8593EM 21.0°C/50.0% Engineer : Alvin_Yang
EUT : Audio Data Transceiver RF Module
Power Rating : 120Vac/60Hz M/N:LG-KS.WT0601(ACC76T)
Test Mode : TX: CH12

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	56.190	14.21	1.60	20.10	35.91	40.00	4.09	QP
2	68.800	12.39	1.70	19.11	33.19	40.00	6.81	QP
3	119.240	17.53	2.30	14.37	34.20	43.50	9.30	QP
4	250.190	25.02	3.50	4.05	32.57	46.00	13.43	QP
5	549.920	21.38	6.80	7.56	35.74	46.00	10.26	QP
6	591.630	21.48	6.20	8.11	35.79	46.00	10.21	QP
7	634.310	21.13	6.30	8.62	36.05	46.00	9.95	QP
8	676.020	23.29	6.40	5.51	35.20	46.00	10.80	QP
9	719.670	22.04	6.60	6.62	35.27	46.00	10.73	QP
10	810.850	24.54	7.00	4.49	36.04	46.00	9.96	QP

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



AUDIX Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email:ttemc@ttemc.com.tw



Trace: (Discrete)

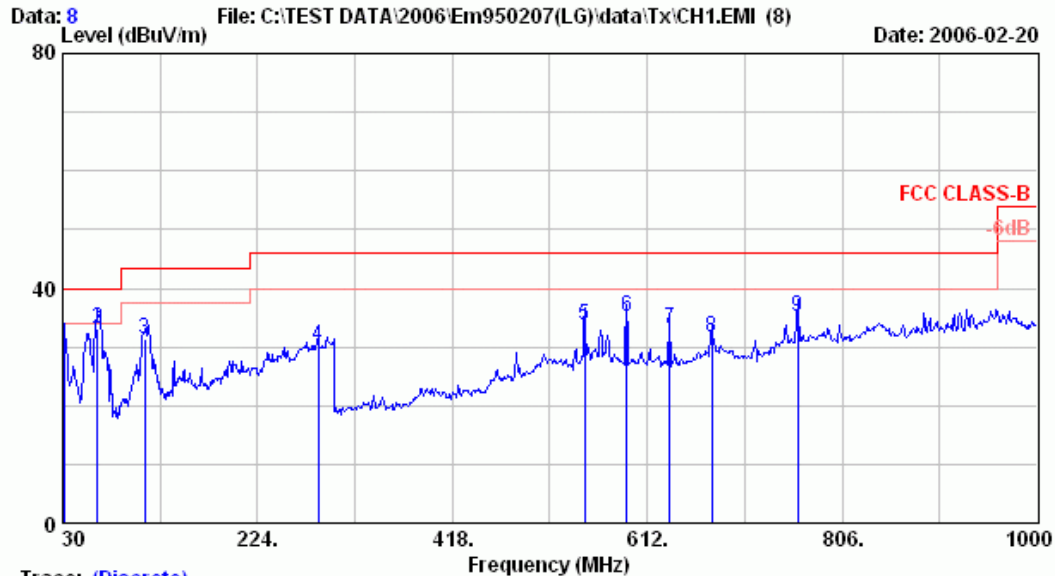
Site no. : A/C Chamber Data no. : 7
Dis. / Ant. : 3m BBA9106/UHALP9108-A Ant. pol. : HORIZONTAL
Limit : FCC CLASS-B
Env. / Ins. : 8593EM 16°C/62% Engineer : Alvin_Yang
EUT : Audio Data Transceiver RF Module
Power Rating : 120Vac/60Hz M/N:LG-KS.WT0601(ACC96T)
Test Mode : TX:CH1

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	115.360	18.69	2.30	11.94	32.93	43.50	10.57	QP
2	240.490	23.10	3.40	2.75	29.25	46.00	16.75	QP
3	481.050	18.74	6.10	6.30	31.13	46.00	14.87	QP
4	549.920	19.09	6.80	9.98	35.87	46.00	10.13	QP
5	591.630	20.98	6.20	8.15	35.33	46.00	10.67	QP
6	634.310	20.94	6.30	4.94	32.19	46.00	13.81	QP
7	676.020	22.89	6.40	1.99	31.27	46.00	14.73	QP
8	761.380	23.68	6.70	4.64	35.02	46.00	10.98	QP
9	845.770	25.35	7.10	0.19	32.64	46.00	13.36	QP

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



AUDIX Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email:ttemc@ttemc.com.tw



Trace: (Discrete)

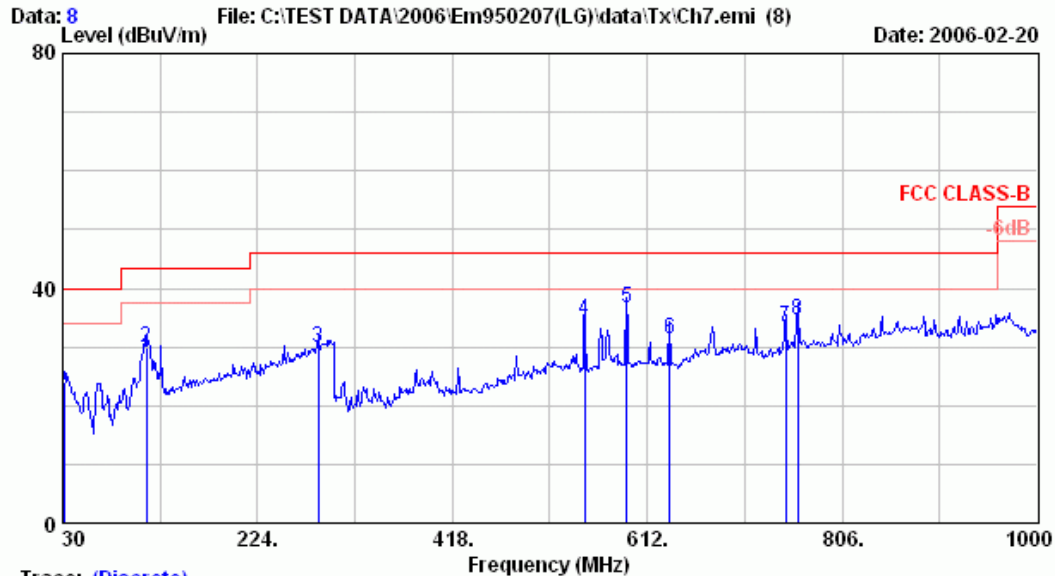
Site no. : A/C Chamber Data no. : 8
Dis. / Ant. : 3m BBA9106/UHALP9108-A Ant. pol. : VERTICAL
Limit : FCC CLASS-B
Env. / Ins. : 8593EM 16°C/62% Engineer : Alvin_Yang
EUT : Audio Data Transceiver RF Module
Power Rating : 120Vac/60Hz M/N:LG-KS.WT0601(ACC96T)
Test Mode : TX:CH1

	Freq.	Ant.	Cable		Emission			
	(MHz)	Factor	Loss	Reading	Level	Limits	Margin	Remark
		(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	30.970	23.39	1.10	7.37	31.86	40.00	8.14	QP
2	64.920	12.84	1.70	18.69	33.23	40.00	6.77	QP
3	111.480	17.93	2.20	11.11	31.23	43.50	12.27	QP
4	284.140	25.97	3.80	0.31	30.08	46.00	15.92	QP
5	549.920	21.38	6.80	5.55	33.73	46.00	12.27	QP
6	591.630	21.48	6.20	7.42	35.10	46.00	10.90	QP
7	634.310	21.13	6.30	5.68	33.11	46.00	12.89	QP
8	676.020	23.29	6.40	1.98	31.67	46.00	14.33	QP
9	761.380	24.91	6.70	3.43	35.03	46.00	10.97	QP

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



AUDIX Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email:ttemc@ttemc.com.tw



Trace: (Discrete)

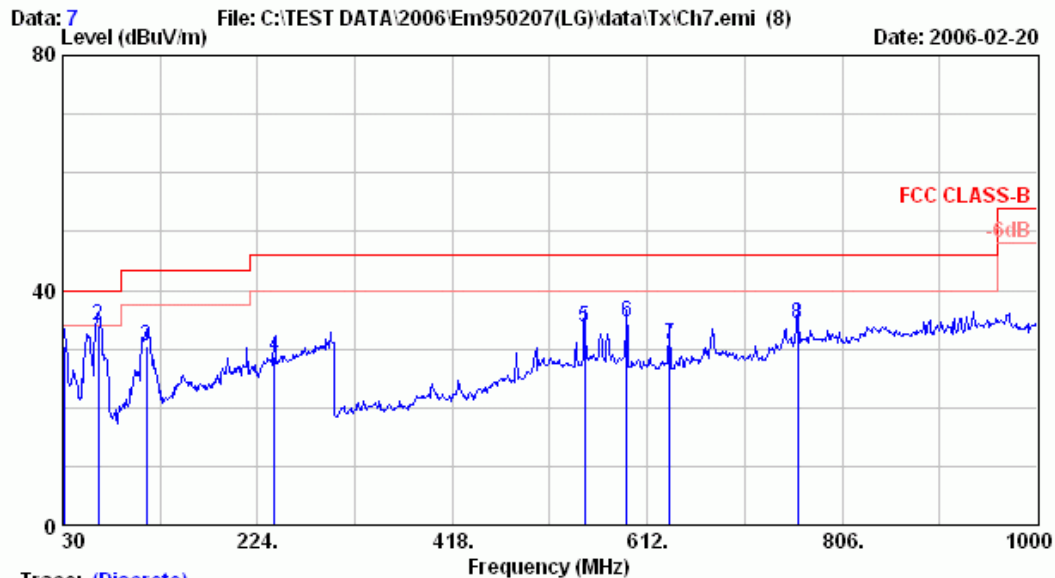
Site no. : A/C Chamber Data no. : 8
Dis. / Ant. : 3m BBA9106/UHALP9108-A Ant. pol. : HORIZONTAL
Limit : FCC CLASS-B
Env. / Ins. : 8593EM 16°C/62% Engineer : Alvin_Yang
EUT : Audio Data Transceiver RF Module
Power Rating : 120Vac/60Hz M/N:LG-KS.WT0601(ACC96T)
Test Mode : TX:CH7

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	30.970	24.81	1.10	-2.02	23.89	40.00	16.11	QP
2	113.420	18.47	2.26	9.15	29.88	43.50	13.62	QP
3	284.140	25.51	3.80	0.70	30.00	46.00	16.00	QP
4	549.920	19.09	6.80	8.57	34.46	46.00	11.54	QP
5	591.630	20.98	6.20	9.32	36.50	46.00	9.50	QP
6	634.310	20.94	6.30	3.97	31.22	46.00	14.78	QP
7	749.740	23.25	6.70	3.46	33.41	46.00	12.59	QP
8	761.380	23.68	6.70	4.24	34.62	46.00	11.38	QP

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



AUDIX Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email:ttemc@ttemc.com.tw



Trace: (Discrete)

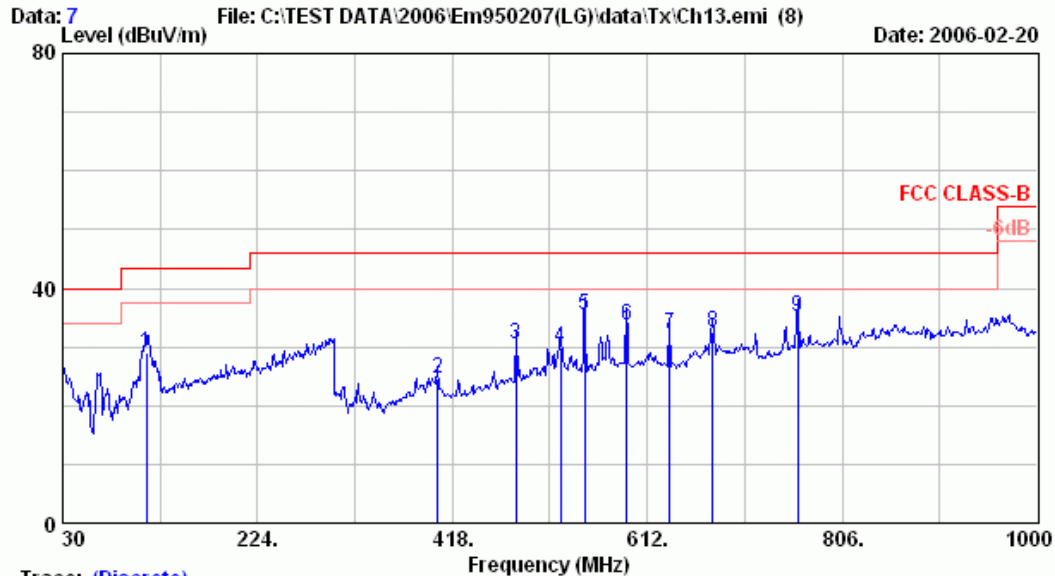
Site no. : A/C Chamber Data no. : 7
Dis. / Ant. : 3m BBA9106/UHALP9108-A Ant. pol. : VERTICAL
Limit : FCC CLASS-B
Env. / Ins. : 8593EM 16°C/62% Engineer : Alvin_Yang
EUT : Audio Data Transceiver RF Module
Power Rating : 120Vac/60Hz M/N:LG-KS.WT0601(ACC96T)
Test Mode : TX:CH7

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	30.970	23.39	1.10	5.99	30.48	40.00	9.52	QP
2	65.890	12.69	1.70	19.50	33.89	40.00	6.11	QP
3	113.420	17.68	2.26	10.39	30.33	43.50	13.17	QP
4	240.490	24.27	3.40	1.07	28.73	46.00	17.27	QP
5	549.920	21.38	6.80	5.46	33.64	46.00	12.36	QP
6	591.630	21.48	6.20	6.82	34.50	46.00	11.50	QP
7	634.310	21.13	6.30	3.45	30.88	46.00	15.12	QP
8	761.380	24.91	6.70	2.82	34.42	46.00	11.58	QP

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



AUDIX Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email:ttemc@ttemc.com.tw



Trace: (Discrete)

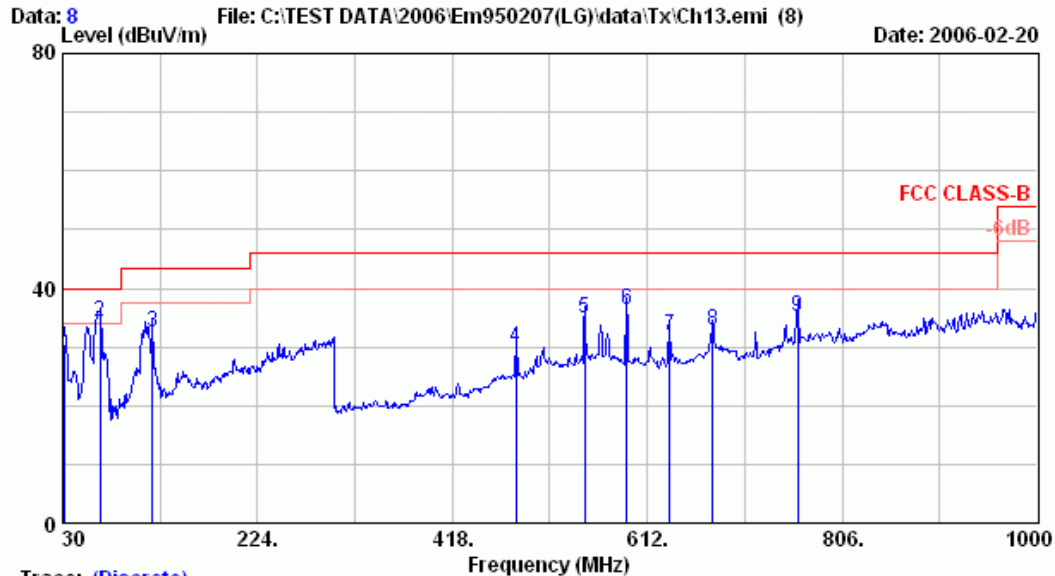
Site no. : A/C Chamber Data no. : 7
Dis. / Ant. : 3m BBA9106/UHALP9108-A Ant. pol. : HORIZONTAL
Limit : FCC CLASS-B
Env. / Ins. : 8593EM 16°C/62% Engineer : Alvin_Yang
EUT : Audio Data Transceiver RF Module
Power Rating : 120Vac/60Hz M/N:LG-KS.WT0601(ACC96T)
Test Mode : TX: CH12

	Freq.	Ant.	Cable		Emission			
	(MHz)	Factor	Loss	Reading	Level	Limits	Margin	Remark
		(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	113.420	18.47	2.26	8.29	29.02	43.50	14.48	QP
2	403.450	17.54	4.90	2.18	24.61	46.00	21.39	QP
3	481.050	18.74	6.10	5.62	30.45	46.00	15.55	QP
4	525.670	19.66	6.90	3.37	29.93	46.00	16.07	QP
5	549.920	19.09	6.80	9.43	35.32	46.00	10.68	QP
6	591.630	20.98	6.20	6.51	33.69	46.00	12.31	QP
7	634.310	20.94	6.30	5.06	32.31	46.00	13.69	QP
8	676.990	22.90	6.40	3.27	32.57	46.00	13.43	QP
9	761.380	23.68	6.70	4.82	35.20	46.00	10.80	QP

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



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No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email:ttemc@ttemc.com.tw



Trace: (Discrete)

Site no. : A/C Chamber Data no. : 8
Dis. / Ant. : 3m BBA9106/UHALP9108-A Ant. pol. : VERTICAL
Limit : FCC CLASS-B
Env. / Ins. : 8593EM 16°C/62% Engineer : Alvin_Yang
EUT : Audio Data Transceiver RF Module
Power Rating : 120Vac/60Hz M/N:LG-KS.WT0601(ACC96T)
Test Mode : TX: CH12

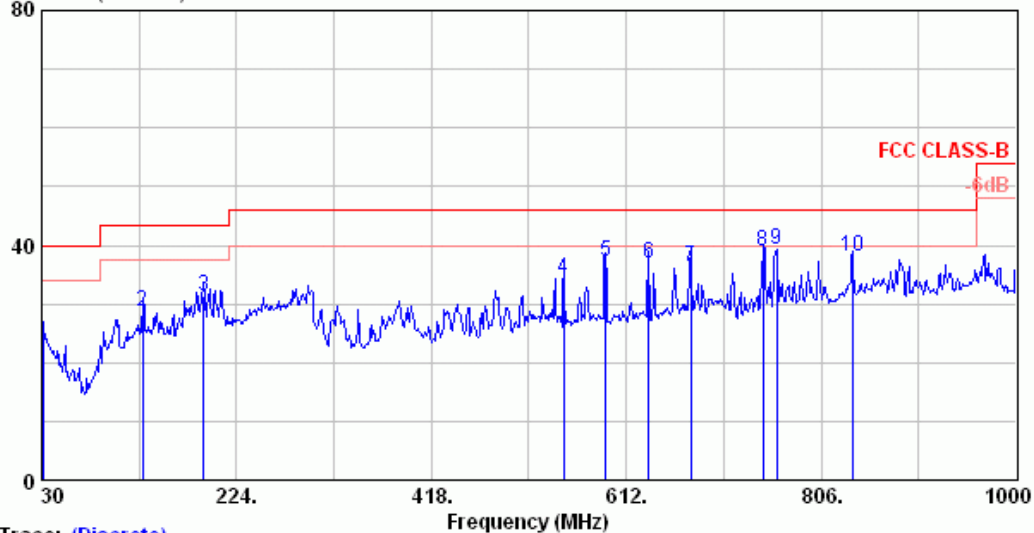
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	30.970	23.39	1.10	5.95	30.44	40.00	9.56	QP
2	66.860	12.52	1.70	20.19	34.41	40.00	5.59	QP
3	119.240	17.53	2.30	12.80	32.63	43.50	10.87	QP
4	481.050	18.93	6.10	4.83	29.85	46.00	16.15	QP
5	549.920	21.38	6.80	6.74	34.92	46.00	11.08	QP
6	591.630	21.48	6.20	8.65	36.33	46.00	9.67	QP
7	634.310	21.13	6.30	4.61	32.04	46.00	13.96	QP
8	676.990	23.38	6.40	2.92	32.71	46.00	13.29	QP
9	761.380	24.91	6.70	3.50	35.10	46.00	10.90	QP

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



AUDIX Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email:temc@ttemc.com.tw

Data: 7 File: C:\Documents and Settings\user\桌面\Radiated Data\0302(36&76)\Tx(36)\36TX(RX)\
Level (dBuV/m) Date: 2006-02-20



Trace: (Discrete)

Site no. : A/C Chamber Data no. : 7
Dis. / Ant. : 3m BBA9106/UHALP9108-A Ant. pol. : HORIZONTAL
Limit : FCC CLASS-B
Env. / Ins. : 8593EM 16°C/62% Engineer : Alvin_Yang
EUT : Audio Data Transceiver RF Module
Power Rating : 120Vac/60Hz M/N:LG-KS.WT0601(ACC36T)
Test Mode : RX---2442MHz

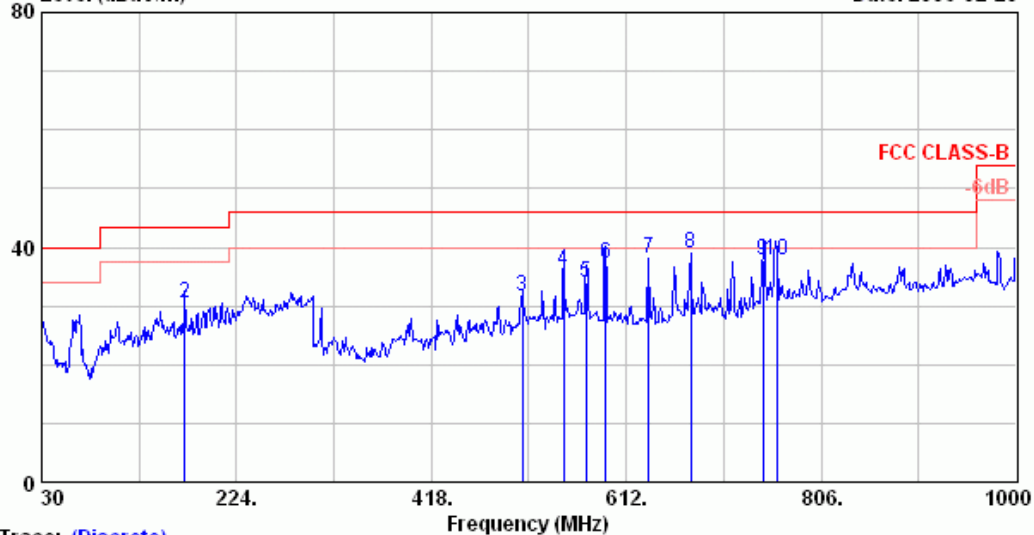
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	30.970	24.81	1.10	-0.82	25.09	40.00	14.91	QP
2	130.880	19.79	2.40	6.41	28.60	43.50	14.90	QP
3	191.020	21.55	3.00	6.88	31.43	43.50	12.07	QP
4	549.920	19.09	6.80	8.30	34.19	46.00	11.81	QP
5	591.630	20.98	6.20	10.11	37.29	46.00	8.71	QP
6	634.310	20.94	6.30	9.79	37.04	46.00	8.96	QP
7	676.020	22.89	6.40	7.14	36.42	46.00	9.58	QP
8	747.800	23.11	6.70	9.02	38.83	46.00	7.17	QP
9	761.380	23.68	6.70	9.02	39.40	46.00	6.60	QP
10	837.040	24.94	7.10	6.06	38.09	46.00	7.91	QP

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



AUDIX Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email:temc@ttemc.com.tw

Data: 8 File: C:\Documents and Settings\user\桌面\Radiated Data\0302(36&76)\Tx(36)\36TX(RX)\ Date: 2006-02-20



Trace: (Discrete)

Site no. : A/C Chamber Data no. : 8
Dis. / Ant. : 3m BBA9106/UHALP9108-A Ant. pol. : VERTICAL
Limit : FCC CLASS-B
Env. / Ins. : 8593EM 16°C/62% Engineer : Alvin_Yang
EUT : Audio Data Transceiver RF Module
Power Rating : 120Vac/60Hz M/N:LG-KS.WT0601(ACC36T)
Test Mode : RX---2442MHz

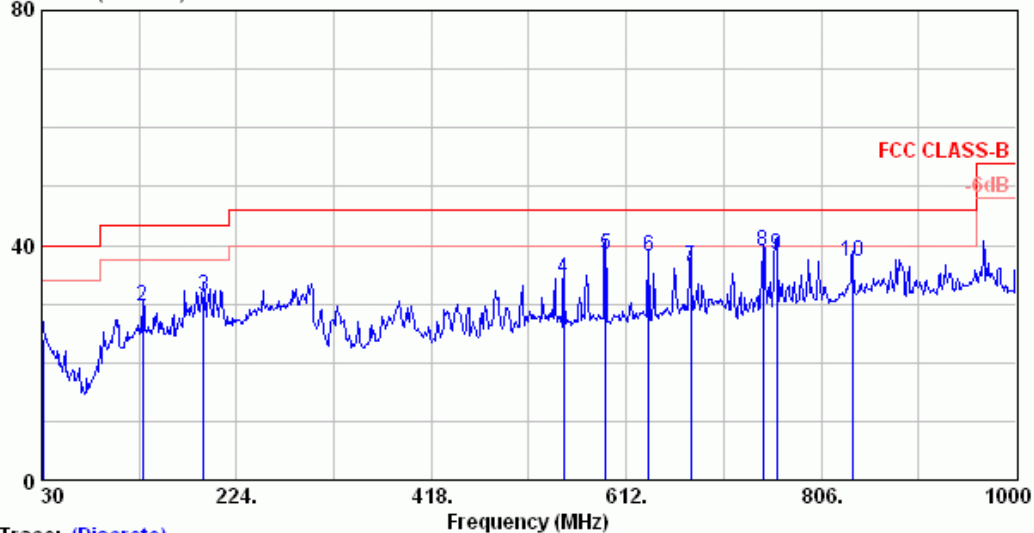
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	30.000	23.60	1.10	1.20	25.90	40.00	14.10	QP
2	172.590	20.30	2.80	7.51	30.61	43.50	12.89	QP
3	508.210	20.58	6.80	4.35	31.73	46.00	14.27	QP
4	549.920	21.38	6.80	7.77	35.95	46.00	10.05	QP
5	572.230	21.96	6.50	5.49	33.94	46.00	12.06	QP
6	591.630	21.48	6.20	9.67	37.35	46.00	8.65	QP
7	634.310	21.13	6.30	10.72	38.15	46.00	7.85	QP
8	676.020	23.29	6.40	9.18	38.87	46.00	7.13	QP
9	747.800	24.27	6.70	6.76	37.73	46.00	8.27	QP
10	761.380	24.91	6.70	6.23	37.83	46.00	8.17	QP

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



AUDIX Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email:ttemc@ttemc.com.tw

Data: 7 File: C:\Documents and Settings\user\桌面\Radiated Data\0302(36&76)\Tx(76)\76TX(RX)\
Level (dBuV/m) Date: 2006-02-20



Trace: (Discrete)

Site no. : A/C Chamber Data no. : 7
Dis. / Ant. : 3m BBA9106/UHALP9108-A Ant. pol. : HORIZONTAL
Limit : FCC CLASS-B
Env. / Ins. : 8593EM 16°C/62% Engineer : Alvin_Yang
EUT : Audio Data Transceiver RF Module
Power Rating : 120Vac/60Hz M/N:LG-KS.WT0601(ACC76T)
Test Mode : RX---2442MHz

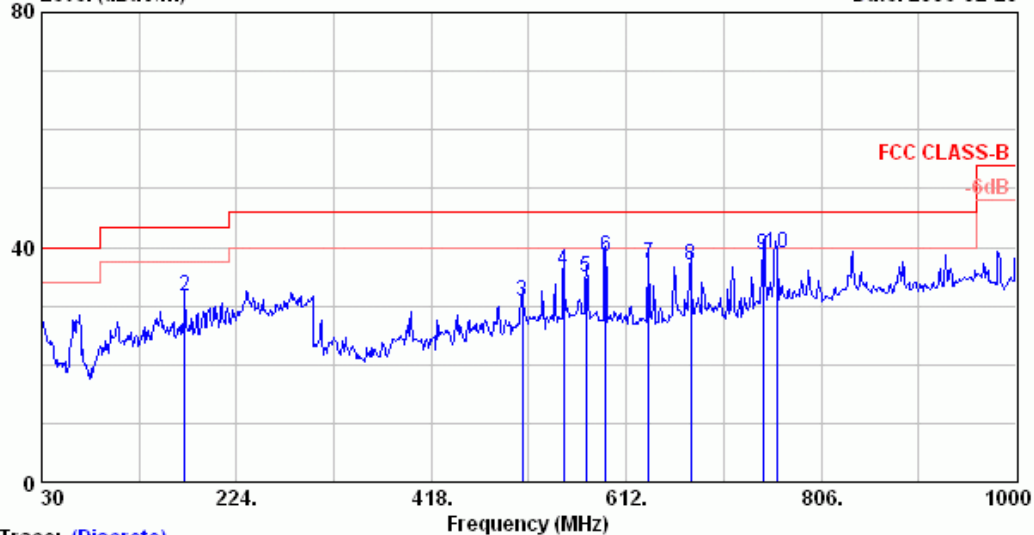
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	30.970	24.81	1.10	-1.82	24.09	40.00	15.91	QP
2	130.880	19.79	2.40	7.41	29.60	43.50	13.90	QP
3	191.020	21.55	3.00	6.88	31.43	43.50	12.07	QP
4	549.920	19.09	6.80	8.30	34.19	46.00	11.81	QP
5	591.630	20.98	6.20	11.11	38.29	46.00	7.71	QP
6	634.310	20.94	6.30	10.79	38.04	46.00	7.96	QP
7	676.020	22.89	6.40	7.14	36.42	46.00	9.58	QP
8	747.800	23.11	6.70	9.02	38.83	46.00	7.17	QP
9	761.380	23.68	6.70	8.02	38.40	46.00	7.60	QP
10	837.040	24.94	7.10	5.06	37.09	46.00	8.91	QP

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



AUDIX Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email:temc@ttemc.com.tw

Data: 8 File: C:\Documents and Settings\user\桌面\Radiated Data\0302(36&76)\Tx(76)\76TX(RX)\ Date: 2006-02-20



Trace: (Discrete)

Site no. : A/C Chamber Data no. : 8
Dis. / Ant. : 3m BBA9106/UHALP9108-A Ant. pol. : VERTICAL
Limit : FCC CLASS-B
Env. / Ins. : 8593EM 16°C/62% Engineer : Alvin_Yang
EUT : Audio Data Transceiver RF Module
Power Rating : 120Vac/60Hz M/N:LG-KS.WT0601(ACC76T)
Test Mode : RX---2442MHz

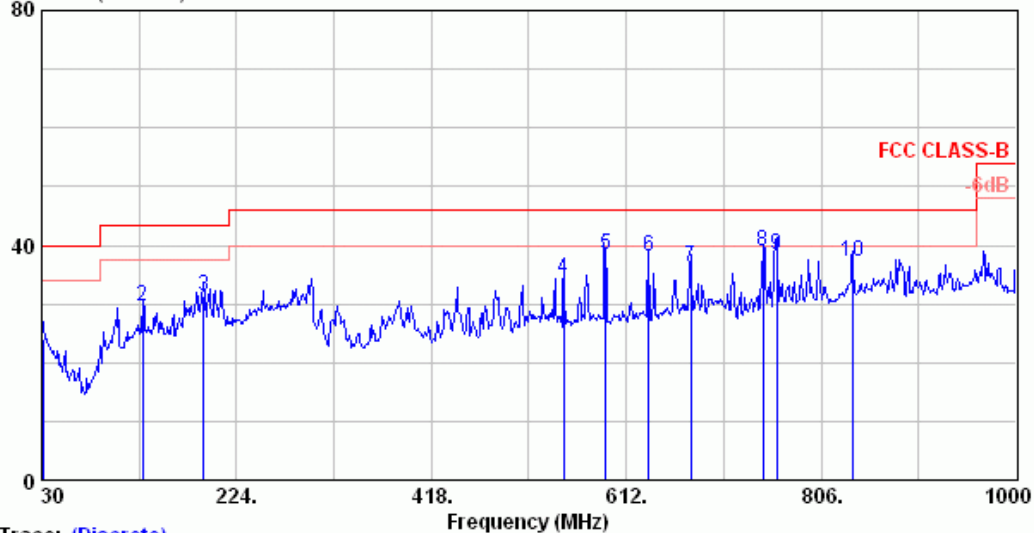
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	30.000	23.60	1.10	1.20	25.90	40.00	14.10	QP
2	172.590	20.30	2.80	8.51	31.61	43.50	11.89	QP
3	508.210	20.58	6.80	3.35	30.73	46.00	15.27	QP
4	549.920	21.38	6.80	7.77	35.95	46.00	10.05	QP
5	572.230	21.96	6.50	6.49	34.94	46.00	11.06	QP
6	591.630	21.48	6.20	10.67	38.35	46.00	7.65	QP
7	634.310	21.13	6.30	9.72	37.15	46.00	8.85	QP
8	676.020	23.29	6.40	7.18	36.87	46.00	9.13	QP
9	747.800	24.27	6.70	7.76	38.73	46.00	7.27	QP
10	761.380	24.91	6.70	7.23	38.83	46.00	7.17	QP

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



AUDIX Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email:temc@ttemc.com.tw

Data: 7 File: C:\Documents and Settings\user\桌面\Radiated Data\96\TX(RX)\TX(RX).emi (8)
Level (dBuV/m) Date: 2006-02-20



Trace: (Discrete)

Site no. : A/C Chamber Data no. : 7
Dis. / Ant. : 3m BBA9106/UHALP9108-A Ant. pol. : HORIZONTAL
Limit : FCC CLASS-B
Env. / Ins. : 8593EM 16°C/62% Engineer : Alvin_Yang
EUT : Audio Data Transceiver RF Module
Power Rating : 120Vac/60Hz M/N:LG-KS.WT0601(ACC96T)
Test Mode : RX---2442MHz

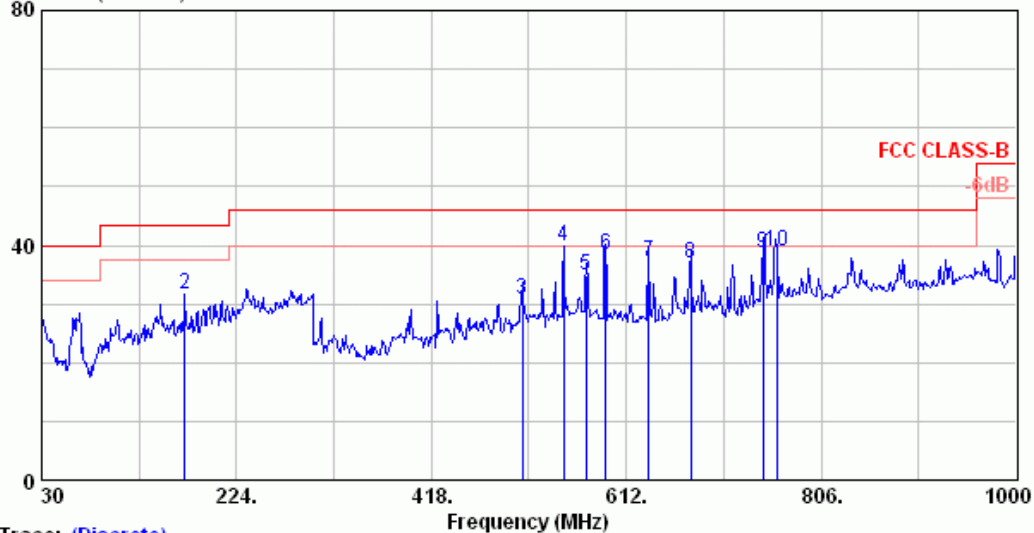
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	30.970	24.81	1.10	-1.82	24.09	40.00	15.91	QP
2	130.880	19.79	2.40	7.41	29.60	43.50	13.90	QP
3	191.020	21.55	3.00	6.88	31.43	43.50	12.07	QP
4	549.920	19.09	6.80	8.30	34.19	46.00	11.81	QP
5	591.630	20.98	6.20	11.11	38.29	46.00	7.71	QP
6	634.310	20.94	6.30	10.79	38.04	46.00	7.96	QP
7	676.020	22.89	6.40	7.14	36.42	46.00	9.58	QP
8	747.800	23.11	6.70	9.02	38.83	46.00	7.17	QP
9	761.380	23.68	6.70	8.02	38.40	46.00	7.60	QP
10	837.040	24.94	7.10	5.06	37.09	46.00	8.91	QP

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



AUDIX Corp. EMC Laboratory
No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email:ttmc@ttmc.com.tw

Data: 8 File: C:\Documents and Settings\user\桌面\Radiated Data\96\TX(RX)\TX(RX).emi (8)
Level (dBuV/m) Date: 2006-02-20



Trace: (Discrete)

Site no. : A/C Chamber Data no. : 8
Dis. / Ant. : 3m BBA9106/UHALP9108-A Ant. pol. : VERTICAL
Limit : FCC CLASS-B
Env. / Ins. : 8593EM 16°C/62% Engineer : Alvin_Yang
EUT : Audio Data Transceiver RF Module
Power Rating : 120Vac/60Hz M/N:LG-KS.WT0601(ACC96T)
Test Mode : RX---2442MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	30.000	23.60	1.10	1.20	25.90	40.00	14.10	QP
2	172.590	20.30	2.80	8.51	31.61	43.50	11.89	QP
3	508.210	20.58	6.80	3.35	30.73	46.00	15.27	QP
4	549.920	0.00	6.80	33.15	39.95	46.00	6.05	QP
5	572.230	21.96	6.50	6.49	34.94	46.00	11.06	QP
6	591.630	21.48	6.20	10.67	38.35	46.00	7.65	QP
7	634.310	21.13	6.30	9.72	37.15	46.00	8.85	QP
8	676.020	23.29	6.40	7.18	36.87	46.00	9.13	QP
9	747.800	24.27	6.70	7.76	38.73	46.00	7.27	QP
10	761.380	24.91	6.70	7.23	38.83	46.00	7.17	QP

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

3.6.2. Restricted Bands Measurement Results

Date of Test : Mar. 01, 2006 Temperature : 21°C

EUT : Audio Data Transceiver RF Module Humidity : 50%

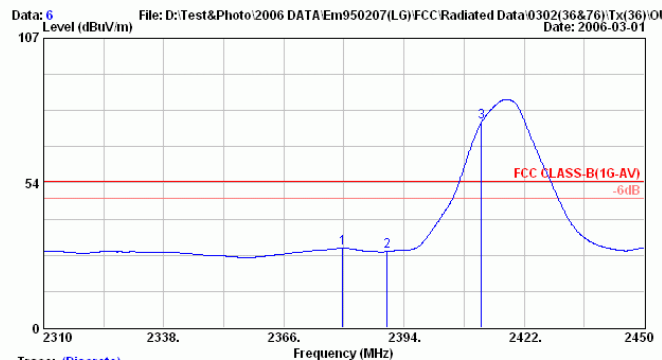
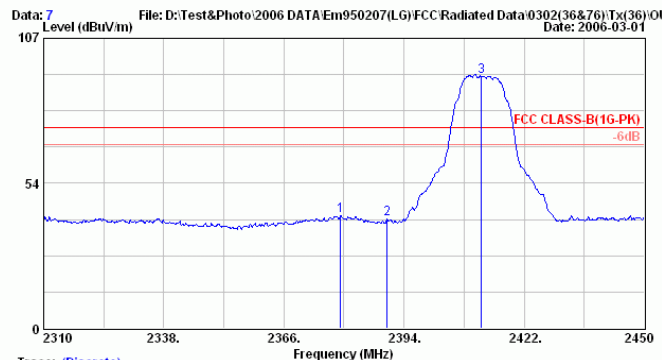
Test Mode : Transmitter (ACC36T) + EUT (LG-KS.WT0601),
Transmitting Mode, Frequency: 2412MHz

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Horizontal dBμV	Emission Level Horizontal dBμV/m	Limits dBμV/m	Margin dB
Peak *	2379.160	28.58	6.32	6.74	41.64	74.00	32.36
Average *	2379.720	28.58	6.32	-5.49	29.41	54.00	24.59

- Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
 2. Low frequency section (spurious in the restricted band 2310-2390MHz).
 3. '*' The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.



AUDIX Corp. EMC Laboratory
 No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code 24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:ttmc@ttmc.com.tw



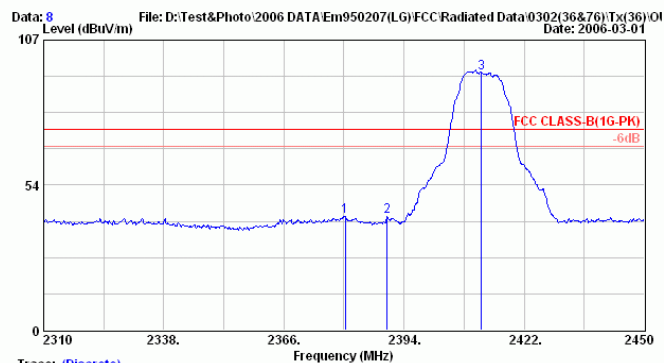
Date of Test : Mar. 01, 2006 Temperature : 21°CEUT : Audio Data Transceiver RF Module Humidity : 50%Test Mode : Transmitter (ACC36T) + EUT (LG-KS.WT0601),
Transmitting Mode, Frequency: 2412MHz

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Vertical dBμV	Emission Level Vertical dBμV/m	Limits dBμV/m	Margin dB
Peak *	2380.280	28.58	6.32	7.12	42.02	74.00	31.98
Average *	2378.740	28.58	6.32	-6.01	28.89	54.00	25.11

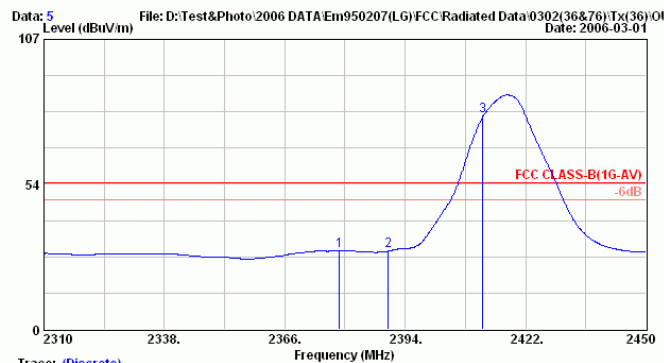
- Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
 2. Low frequency section (spurious in the restricted band 2310-2390MHz).
 3. ‘*’ The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.



AUDIX Corp. EMC Laboratory
 No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code 24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:ttmc@ttmc.com.tw



Site no. : A/C Chamber Data no. : 8
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC CLASS-B(1G-PK)
 Env. / Ins. : 8593EM 21.0°C/50.0% Engineer : Alvin_Yang
 EUT : Audio Data Transceiver RF Module
 Power Rating : 120Vac/60Hz M/N: LG-KS.WT0601 (ACC36T)
 Test Mode : CH1



Site no. : A/C Chamber Data no. : 5
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC CLASS-B(1G-AV)
 Env. / Ins. : 8593EM 21.0°C/50.0% Engineer : Alvin_Yang
 EUT : Audio Data Transceiver RF Module
 Power Rating : 120Vac/60Hz M/N: LG-KS.WT0601 (ACC36T)
 Test Mode : CH1

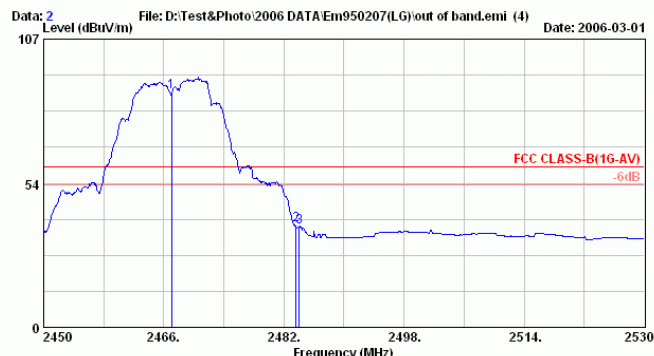
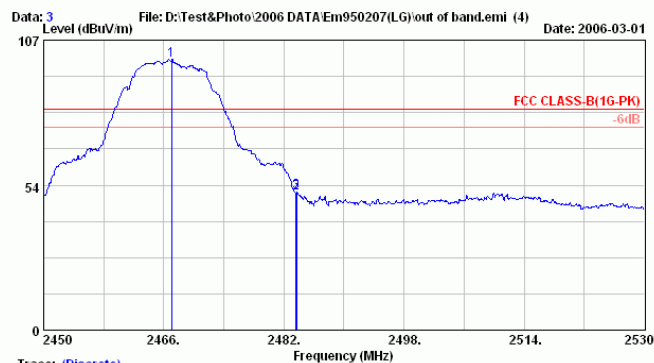
Date of Test : Mar. 01, 2006 Temperature : 21°CEUT : Audio Data Transceiver RF Module Humidity : 50%Test Mode : Transmitter (ACC36T) + EUT (LG-KS.WT0601),
Transmitting Mode, Frequency: 2467MHz

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Horizontal dBμV	Emission Level Horizontal dBμV/m	Limits dBμV/m	Margin dB
Peak *	2483.658	28.77	6.45	10.84	46.06	74.00	27.94
Average *	2484.602	28.77	6.45	-0.69	34.53	54.00	19.47

- Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
 2. High frequency section (spurious in the restricted band 2483.5-2500MHz).
 3. ‘*’ The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.



AUDIX Corp. EMC Laboratory
 No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code 24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:ttmc@ttmc.com.tw



Date of Test : Mar. 01, 2006 Temperature : 21°C

EUT : Audio Data Transceiver RF Module Humidity : 50%

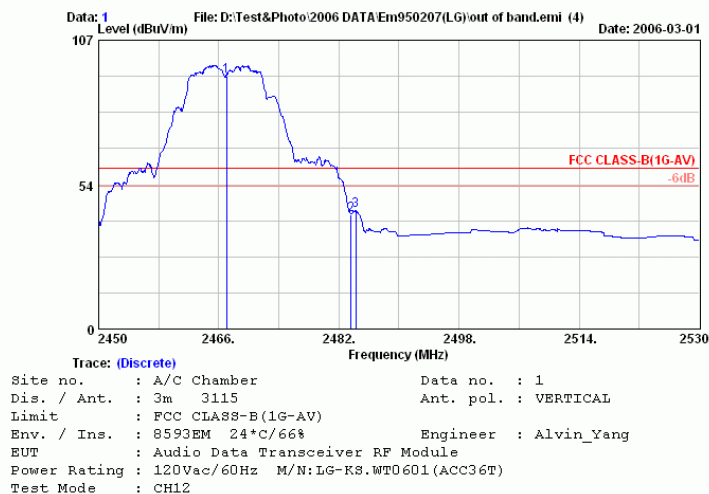
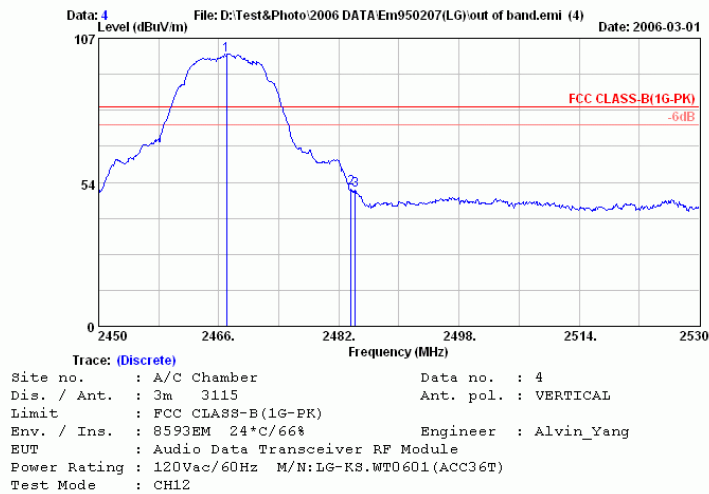
Test Mode : Transmitter (ACC36T) + EUT (LG-KS.WT0601),
Transmitting Mode, Frequency: 2467MHz

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Vertical dBμV	Emission Level Vertical dBμV/m	Limits dBμV/m	Margin dB
Peak *	2483.600	28.77	6.45	11.27	46.49	74.00	27.51
Average *	2484.249	28.77	6.45	4.46	39.68	54.00	14.32

- Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
 2. High frequency section (spurious in the restricted band 2483.5-2500MHz).
 3. ‘*’ The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.



AUDIX Corp. EMC Laboratory
 No.53-11, Tin-fu Teun, Lin-kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code:24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:ttmc@ttmc.com.tw



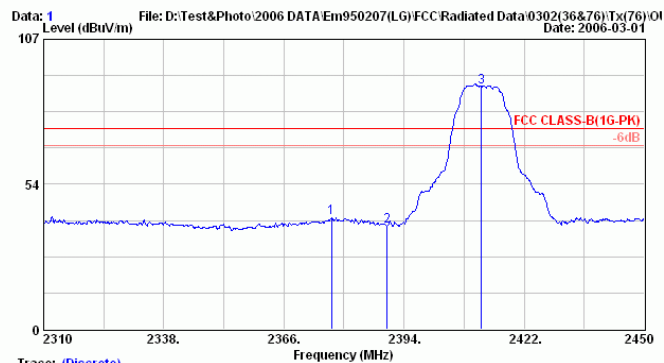
Date of Test : Mar. 01, 2006 Temperature : 21°CEUT : Audio Data Transceiver RF Module Humidity : 50%Test Mode : Transmitter (ACC76T) + EUT (LG-KS.WT0601),
Transmitting Mode, Frequency: 2412MHz

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Horizontal dBμV	Emission Level Horizontal dBμV/m	Limits dBμV/m	Margin dB
Peak *	2377.060	28.58	6.32	6.35	41.25	74.00	32.75
Average *	2379.720	28.58	6.32	-6.64	28.26	54.00	25.74

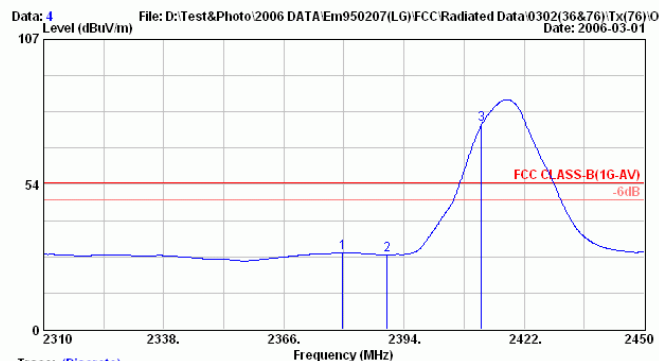
- Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
 2. Low frequency section (spurious in the restricted band 2310-2390MHz).
 3. ‘*’ The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.



AUDIX Corp. EMC Laboratory
 No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code:24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:ttmc@ttmc.com.tw



Site no. : A/C Chamber Data no. : 1
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC CLASS-B(1G-PK)
 Env. / Ins. : 8593EM 21°C/50% Engineer : Alvin_Yang
 EUT : Audio Data Transceiver RF Module
 Power Rating : 120Vac/60Hz M/N: LG-KS.WT0601 (ACC76T)
 Test Mode : CH1



Site no. : A/C Chamber Data no. : 4
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC CLASS-B(1G-AV)
 Env. / Ins. : 8593EM 21°C/50% Engineer : Alvin_Yang
 EUT : Audio Data Transceiver RF Module
 Power Rating : 120Vac/60Hz M/N: LG-KS.WT0601 (ACC76T)
 Test Mode : CH1

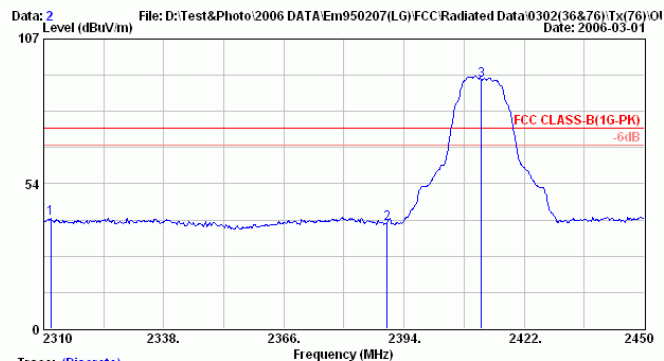
Date of Test : Mar. 01, 2006 Temperature : 21°CEUT : Audio Data Transceiver RF Module Humidity : 50%Test Mode : Transmitter (ACC76T) + EUT (LG-KS.WT0601),
Transmitting Mode, Frequency: 2412MHz

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Vertical dBμV	Emission Level Vertical dBμV/m	Limits dBμV/m	Margin dB
Peak *	2311.680	28.45	6.24	6.09	40.78	74.00	33.22
Average *	2380.280	28.58	6.32	-6.51	28.39	54.00	25.61

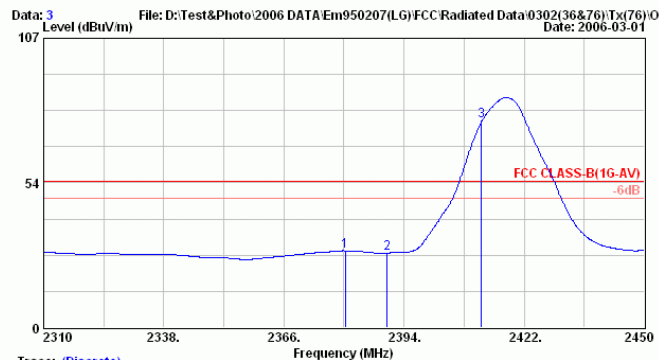
- Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
 2. Low frequency section (spurious in the restricted band 2310-2390MHz).
 3. ‘*’ The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.



AUDIX Corp. EMC Laboratory
 No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code:24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:ttmc@ttmc.com.tw



Site no. : A/C Chamber Data no. : 2
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC CLASS-B(1G-PK)
 Env. / Ins. : 8593EM 21°C/50% Engineer : Alvin_Yang
 EUT : Audio Data Transceiver RF Module
 Power Rating : 120Vac/60Hz M/N: LG-KS.WT0601 (ACC76T)
 Test Mode : CH1



Site no. : A/C Chamber Data no. : 3
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC CLASS-B(1G-AV)
 Env. / Ins. : 8593EM 21°C/50% Engineer : Alvin_Yang
 EUT : Audio Data Transceiver RF Module
 Power Rating : 120Vac/60Hz M/N: LG-KS.WT0601 (ACC76T)
 Test Mode : CH1

Date of Test : Mar. 01, 2006 Temperature : 21°C

EUT : Audio Data Transceiver RF Module Humidity : 50%

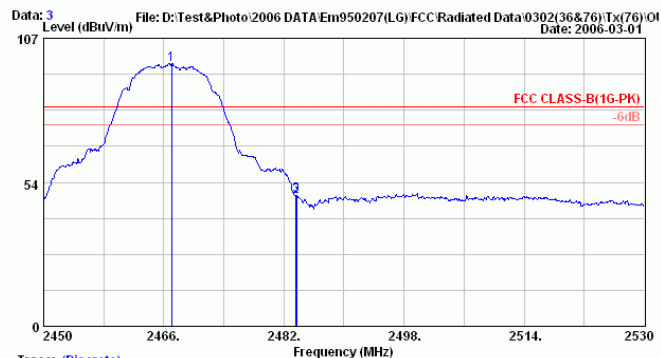
Test Mode : Transmitter (ACC76T) + EUT (LG-KS.WT0601),
Transmitting Mode, Frequency: 2467MHz

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Horizontal dBμV	Emission Level Horizontal dBμV/m	Limits dBμV/m	Margin dB
Peak *	2483.678	28.77	6.45	8.84	44.06	74.00	29.94
Average *	2484.002	28.77	6.45	-2.38	32.84	54.00	21.16

- Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
 2. High frequency section (spurious in the restricted band 2483.5-2500MHz).
 3. '*' The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.

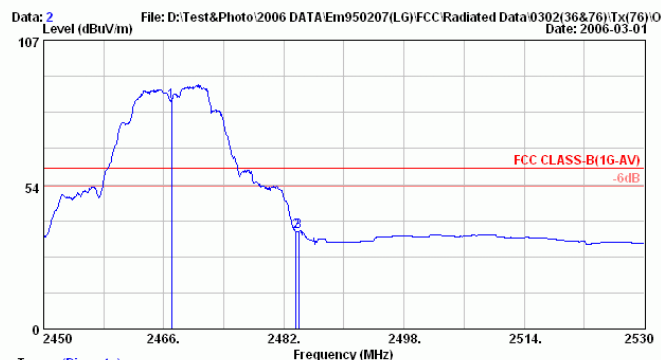


AUDIX Corp. EMC Laboratory
 No.53-11, Tin-fu Teun, Lin-kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code:24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:ttmc@ttmc.com.tw



Trace: (Discrete)

Site no. : A/C Chamber Data no. : 3
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC CLASS-B(1G-PK)
 Env. / Ins. : 8593EM 24°C/66% Engineer : Alvin_Yang
 EUT : Audio Data Transceiver RF Module
 Power Rating : 120Vac/60Hz M/N: LG-KS.WT0601 (ACC76T)
 Test Mode : CH12



Trace: (Discrete)

Site no. : A/C Chamber Data no. : 2
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC CLASS-B(1G-AV)
 Env. / Ins. : 8593EM 24°C/66% Engineer : Alvin_Yang
 EUT : Audio Data Transceiver RF Module
 Power Rating : 120Vac/60Hz M/N: LG-KS.WT0601 (ACC76T)
 Test Mode : CH12

Date of Test : Mar. 01, 2006

Temperature : 21°C

EUT : Audio Data Transceiver RF Module

Humidity : 50%

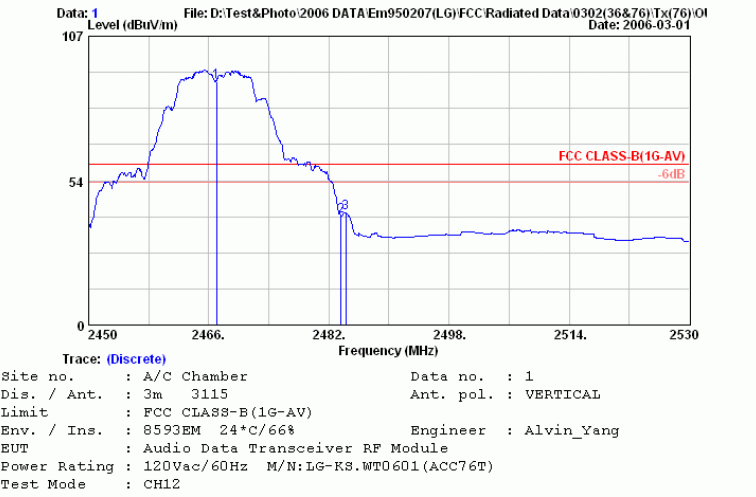
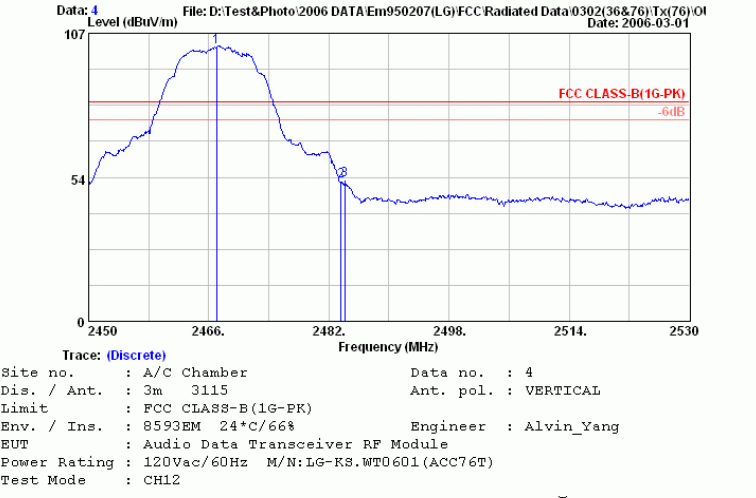
Test Mode : Transmitter (ACC76T) + EUT (LG-KS.WT0601),
Transmitting Mode, Frequency: 2467MHz

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Vertical dBµV	Emission Level Vertical dBµV/m	Limits dBµV/m	Margin dB
Peak *	2484.137	28.77	6.45	12.52	47.74	74.00	26.26
Average *	2484.251	28.77	6.45	2.41	37.63	54.00	16.37

Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
2. High frequency section (spurious in the restricted band 2483.5-2500MHz).
3. ‘*’ The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.



AUDIX Corp. EMC Laboratory
No.53-11, Tin-fu Teun, Lin-kou Hsiang, Taipei
County, Taiwan R.O.C. Post Code:24443
Tel:+886-2-26092133 Fax:+886-2-26099303
Email:ttmc@ttmc.com.tw



Date of Test : Mar. 01, 2006 Temperature : 21°C

EUT : Audio Data Transceiver RF Module Humidity : 50%

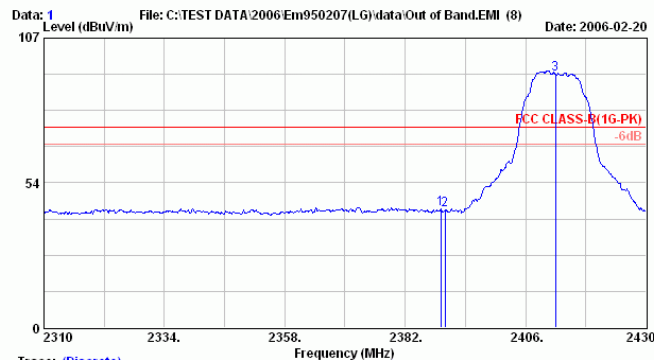
Test Mode : Transmitter (ACC96T) + EUT (LG-KS.WT0601),
Transmitting Mode, Frequency: 2412MHz

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Horizontal dBμV	Emission Level Horizontal dBμV/m	Limits dBμV/m	Margin dB
Peak *	2389.080	28.59	6.34	8.77	43.70	74.00	30.30
Average *	2379.240	28.58	6.32	-2.72	32.18	54.00	21.82

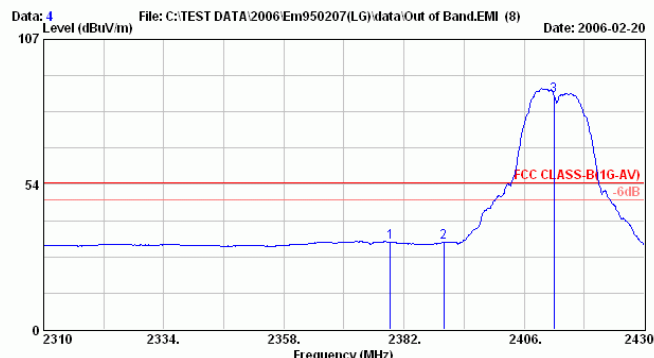
- Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
 2. Low frequency section (spurious in the restricted band 2310-2390MHz).
 3. '*' The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.



AUDIX Corp. EMC Laboratory
 No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code:24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:temc@temc.com.tw



Site no. : A/C Chamber Data no. : 1
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC CLASS-B(1G-PK)
 Env. / Ins. : 8593EM 16°C/62% Engineer : Alvin_Yang
 EUT : Audio Data Transceiver RF Module
 Power Rating : 120Vac/60Hz M/N:LG-KS.WT0601(ACC96T)
 Test Mode : CH1



Site no. : A/C Chamber Data no. : 4
 Dis. / Ant. : 3m 3115 Ant. pol. : HORIZONTAL
 Limit : FCC CLASS-B(1G-AV)
 Env. / Ins. : 8593EM 16°C/62% Engineer : Alvin_Yang
 EUT : Audio Data Transceiver RF Module
 Power Rating : 120Vac/60Hz M/N:LG-KS.WT0601(ACC96T)
 Test Mode : CH1

Date of Test : Mar. 01, 2006 Temperature : 21°C

EUT : Audio Data Transceiver RF Module Humidity : 50%

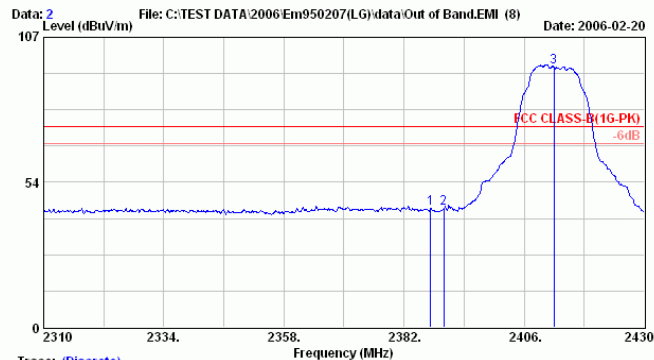
Test Mode : Transmitter (ACC96T) + EUT (LG-KS.WT0601),
Transmitting Mode, Frequency: 2412MHz

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Vertical dBμV	Emission Level Vertical dBμV/m	Limits dBμV/m	Margin dB
Peak *	2387.280	28.59	6.33	9.12	44.04	74.00	29.96
Average *	2372.400	28.57	6.31	-2.10	32.78	54.00	21.22

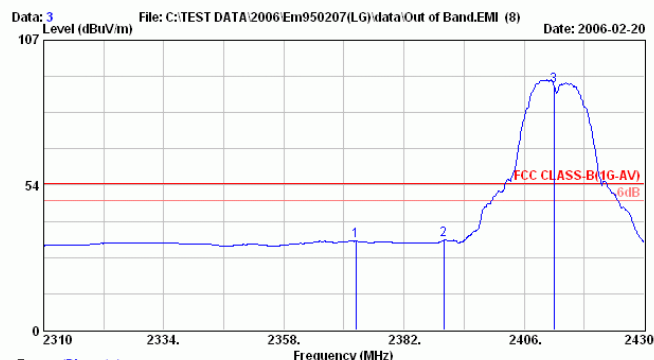
- Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
 2. Low frequency section (spurious in the restricted band 2310-2390MHz).
 3. ‘*’ The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.



AUDIX Corp. EMC Laboratory
 No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code:24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:ttmc@ttmc.com.tw



Site no. : A/C Chamber Data no. : 2
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC CLASS-B(1G-PK)
 Env. / Ins. : 8593EM 16°C/62% Engineer : Alvin_Yang
 EUT : Audio Data Transceiver RF Module
 Power Rating : 120Vac/60Hz M/N: LG-KS.WT0601(ACC96T)
 Test Mode : CH1



Site no. : A/C Chamber Data no. : 3
 Dis. / Ant. : 3m 3115 Ant. pol. : VERTICAL
 Limit : FCC CLASS-B(1G-AV)
 Env. / Ins. : 8593EM 16°C/62% Engineer : Alvin_Yang
 EUT : Audio Data Transceiver RF Module
 Power Rating : 120Vac/60Hz M/N: LG-KS.WT0601(ACC96T)
 Test Mode : CH1

Date of Test : Mar. 01, 2006 Temperature : 21°C

EUT : Audio Data Transceiver RF Module Humidity : 50%

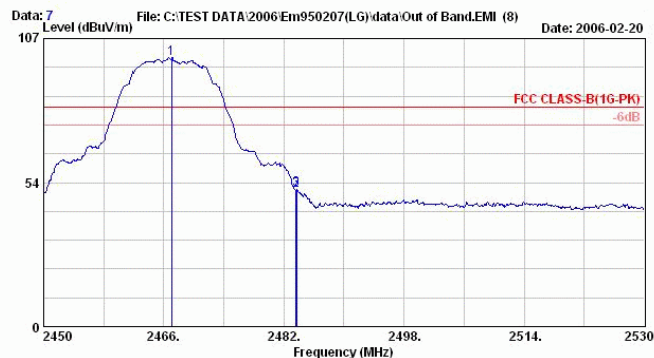
Test Mode : Transmitter (ACC96T) + EUT (LG-KS.WT0601),
Transmitting Mode, Frequency: 2467MHz

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Horizontal dBμV	Emission Level Horizontal dBμV/m	Limits dBμV/m	Margin dB
Peak *	2483.680	28.77	6.45	10.84	46.06	74.00	27.94
Average *	2484.000	28.77	6.45	-4.36	30.86	54.00	23.14

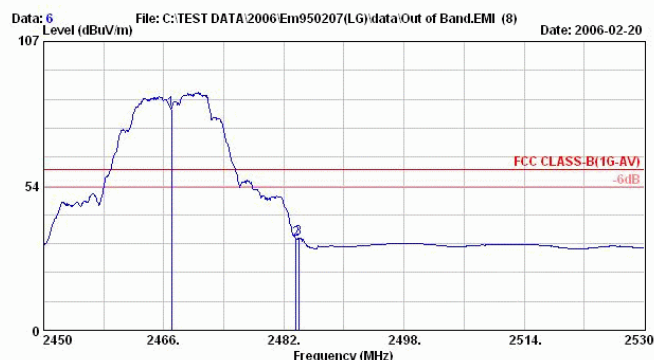
- Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
 2. High frequency section (spurious in the restricted band 2483.5-2500MHz).
 3. '*' The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.



EMC Laboratory
 No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code:24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:ttenc@ttenc.com.tw



Site : A/C Chamber Date : 7
 Condition : 3m 3115 Polarity: HORIZONTAL
 Limit : FCC CLASS-B(1G-PK)
 Env. / Ins. : 8593EM 16°C/62% Engineer : Alvin_Yang
 EUT : Audio Data Transceiver RF Module
 Power Rating : 120Vac/60Hz M/N: LG-KS.WT0601 (ACC96T)
 Test Mode : CH12



Site : A/C Chamber Date : 6
 Condition : 3m 3115 Polarity: HORIZONTAL
 Limit : FCC CLASS-B(1G-AV)
 Env. / Ins. : 8593EM 16°C/62% Engineer : Alvin_Yang
 EUT : Audio Data Transceiver RF Module
 Power Rating : 120Vac/60Hz M/N: LG-KS.WT0601 (ACC96T)
 Test Mode : CH12

Date of Test : Mar. 01, 2006 Temperature : 21°C

EUT : Audio Data Transceiver RF Module Humidity : 50%

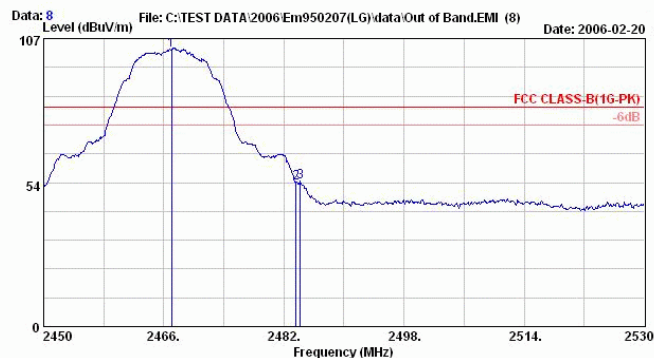
Test Mode : Transmitter (ACC96T) + EUT (LG-KS.WT0601),
Transmitting Mode, Frequency: 2467MHz

	Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Vertical dBμV	Emission Level Vertical dBμV/m	Limits dBμV/m	Margin dB
Peak *	2484.160	28.77	6.45	13.54	48.76	74.00	25.24
Average *	2484.240	28.77	6.45	0.42	35.64	54.00	18.36

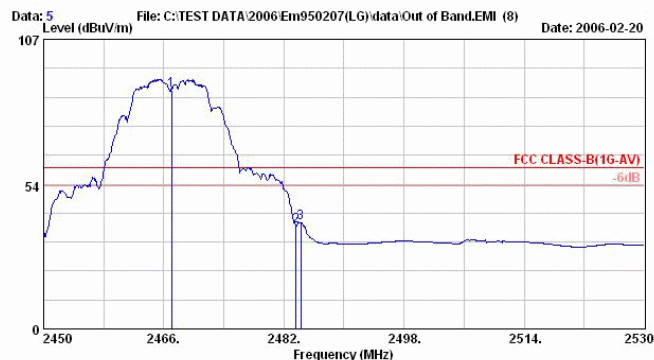
- Remark : 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading.
 2. High frequency section (spurious in the restricted band 2483.5-2500MHz).
 3. '*' The field strength of emission appearing within Part 15.205(a) shall not exceed the limits shown in section 15.209.



EMC Laboratory
 No.53-11, Tin-fu Tsun, Lin-kou Hsiang, Taipei
 County, Taiwan R.O.C. Post Code:24443
 Tel:+886-2-26092133 Fax:+886-2-26099303
 Email:ttenc@ttenc.com.tw



Site : A/C Chamber Date : 8
 Condition : 3m 3115 Polarity: VERTICAL
 Limit : FCC CLASS-B(1G-PK)
 Env. / Ins. : 8593EM 16°C/62% Engineer : Alvin_Yang
 EUT : Audio Data Transceiver RF Module
 Power Rating : 120Vac/60Hz M/N: LG-KS.WT0601 (ACC96T)
 Test Mode : CH12



Site : A/C Chamber Date : 5
 Condition : 3m 3115 Polarity: VERTICAL
 Limit : FCC CLASS-B(1G-AV)
 Env. / Ins. : 8593EM 16°C/62% Engineer : Alvin_Yang
 EUT : Audio Data Transceiver RF Module
 Power Rating : 120Vac/60Hz M/N: LG-KS.WT0601 (ACC96T)
 Test Mode : CH12

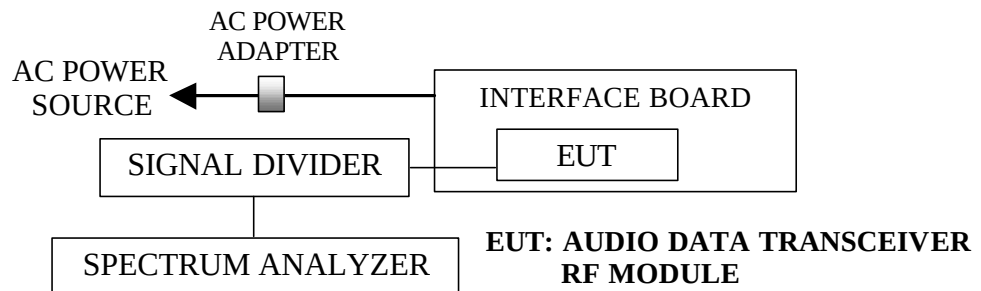
4. 6dB BANDWIDTH MEASUREMENT

4.1. Test Equipment

The following test equipment was used during the Emission Bandwidth measurement:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	E4446A	US44300366	Aug. 23, 05'	Aug. 22, 06'

4.2. Block Diagram of Test Setup



4.3. Specification Limits (§15.247(a)(2))

The minimum 6dB bandwidth shall be at least 500kHz.

4.4. Operating Condition of EUT

The software IA8GUIv3.00KSE was used to enable the EUT to transmit and receive data at different channel frequency individually.

4.5. Test Procedure

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

4.6. Test Results

PASSED. All the test results are listed in next pages.

EUT: Audio Data Transceiver RF Module

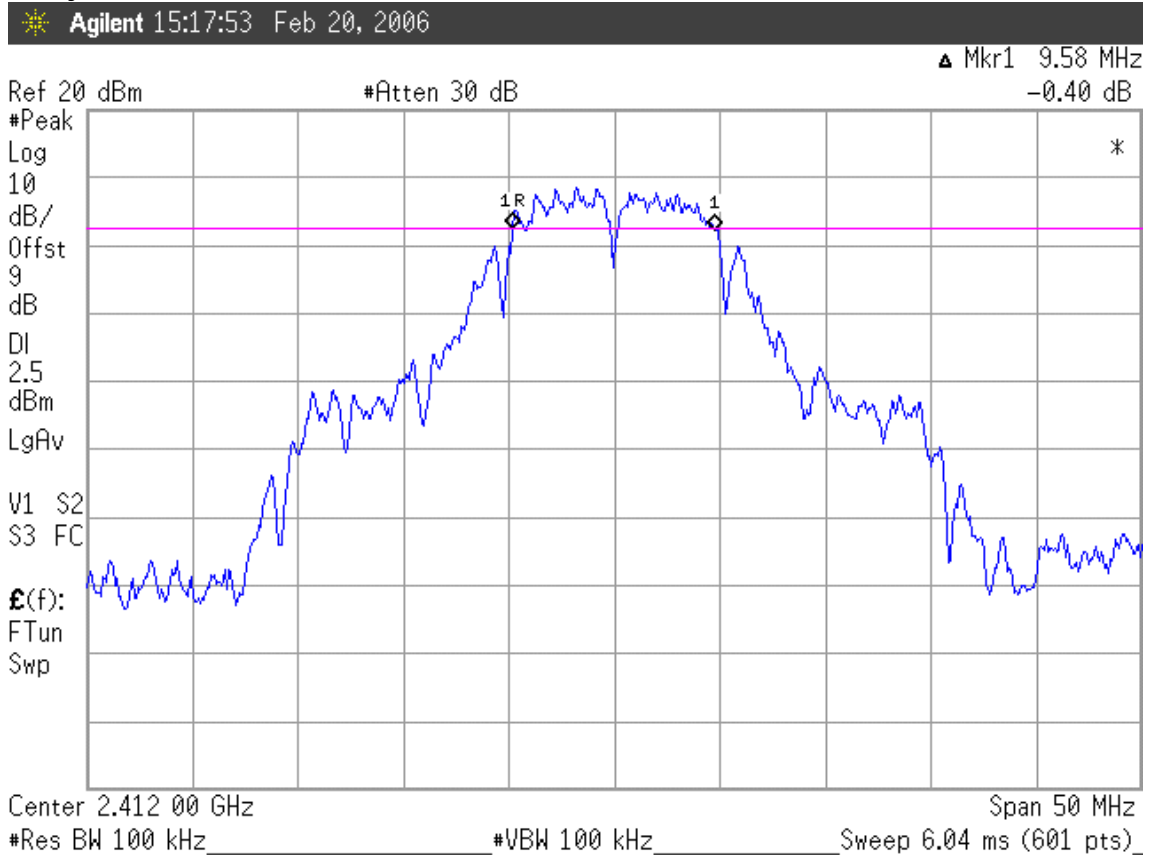
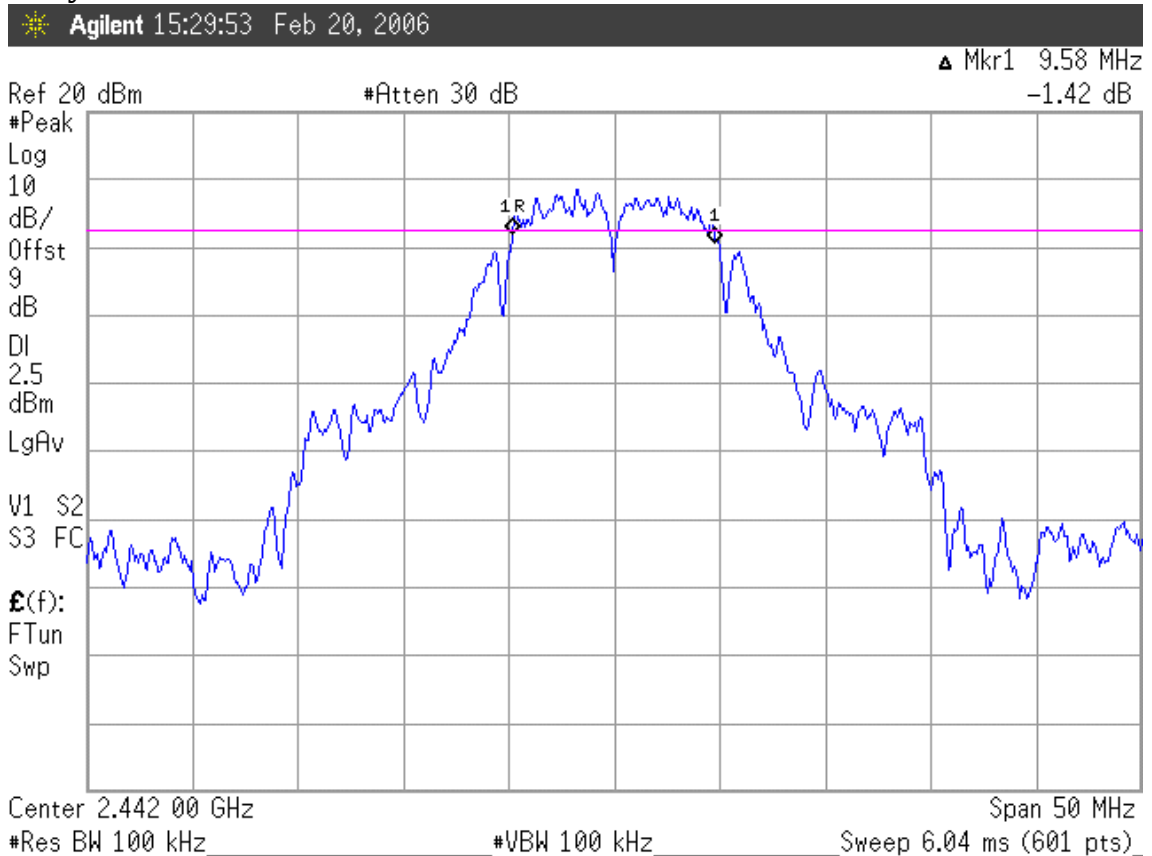
M/N: LG-KS.WT0601

Test Date: Feb. 20, 2006

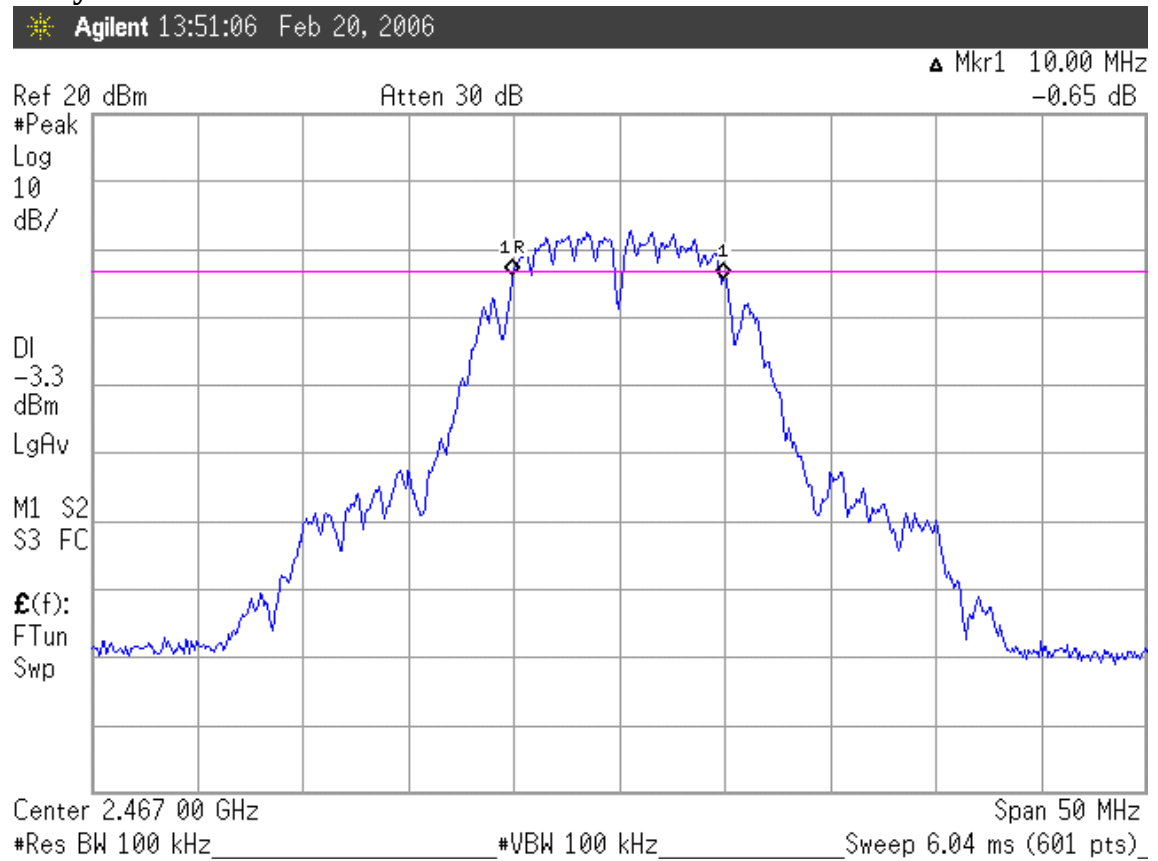
Temperature: 21 °C

Humidity: 52 %

Channel	Frequency	6dB Bandwidth
1.	2412MHz	9.58MHz
7.	2442MHz	9.58MHz
12.	2467MHz	10MHz

Frequency : 2412MHz**Frequency : 2442MHz**

Frequency : 2467MHz



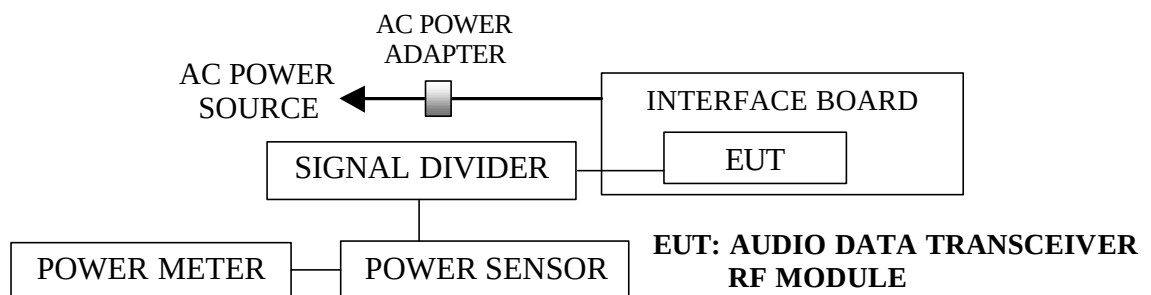
5. MAXIMUM PEAK OUTPUT POWER MEASUREMENT

5.1. Test Equipment

The following test equipment was used during the maximum peak output power measurement:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Power Meter	Anritsu	ML2487A	6K00001563	Jan. 09, 06'	Jan. 08, 07'
2.	Power Sensor	Anritsu	MA2491A	030873	Jan. 09, 06'	Jan. 08, 07'

5.2. Block Diagram of Test Setup



5.3. Specification Limits (§15.247(b)-(3))

The Limits of maximum Peak Output Power for digital modulation in 2400-2483.5MHz is : 1Watt. (30dBm)

5.4. Operating Condition of EUT

The software IA8 was used to enable the EUT to transmit and receive data at different channel frequency individually.

5.5. Test Procedure

The RF output of EUT was connected to the power meter that was designed to detect peak value automatically.

5.6. Test Results

PASSED. All the test results are listed below.

EUT: Audio Data Transceiver RF Module

M/N: LG-KS.WT0601

Test Date: Feb. 20, 2006

Temperature: 21 °C

Humidity: 52 %

Channel	Frequency	Peak Output Power	Limit
1.	2412MHz	20.75dBm	30dBm
7.	2442MHz	20.13dBm	30dBm
12.	2467MHz	15.06dBm	30dBm

6. EMISSION LIMITATIONS MEASUREMENT

6.1. Test Equipment

The following test equipment was used during the emission limitations test :

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	E4446A	US44300366	Aug. 23, 05'	Aug. 22, 06'

6.2. Block Diagram of Test Setup

The same as section.4.2.

6.3. Specification Limits (§15.247(c))

In any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated 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, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (See Section 15.205(c)).(※ This test result attaching to §3.6.3)

6.4. Operating Condition of EUT

The software IA8 was used to enable the EUT to transmit and receive data at different channel frequency individually.

6.5. Test Procedure

The RF output of EUT was connected to the spectrum analyzer. The bandwidth of the fundamental frequency was measure by spectrum analyzer with 100kHz RBW and 100kHz VBW.

6.6. Test Results

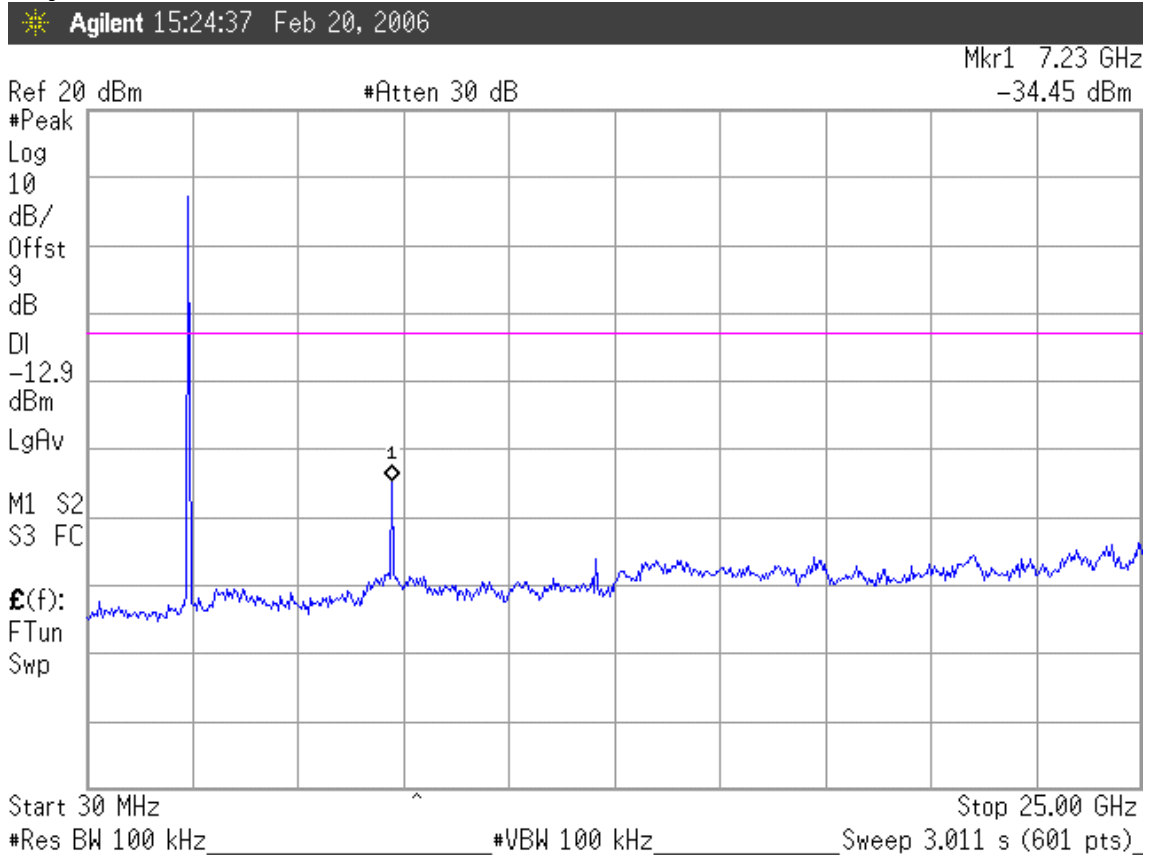
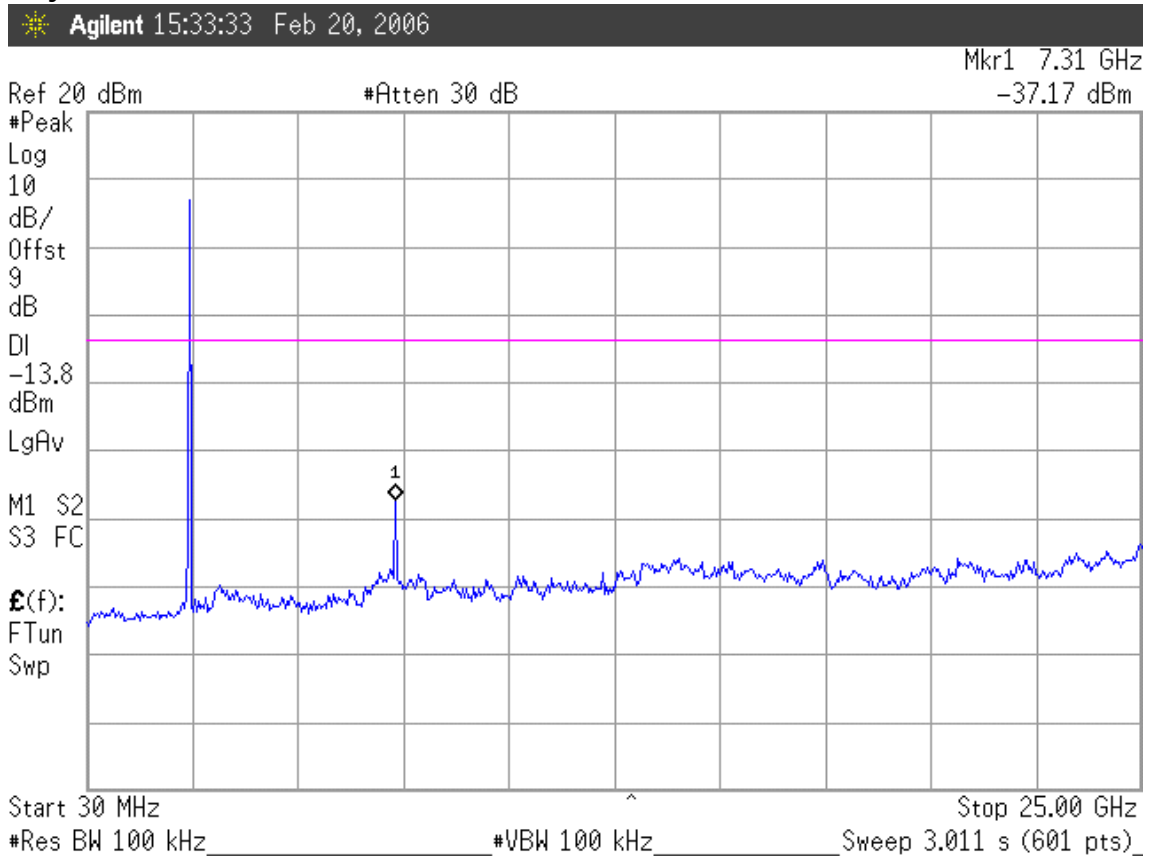
PASSED. All the test results are listed in next pages.

EUT: Audio Data Transceiver RF Module M/N: LG-KS.WT0601

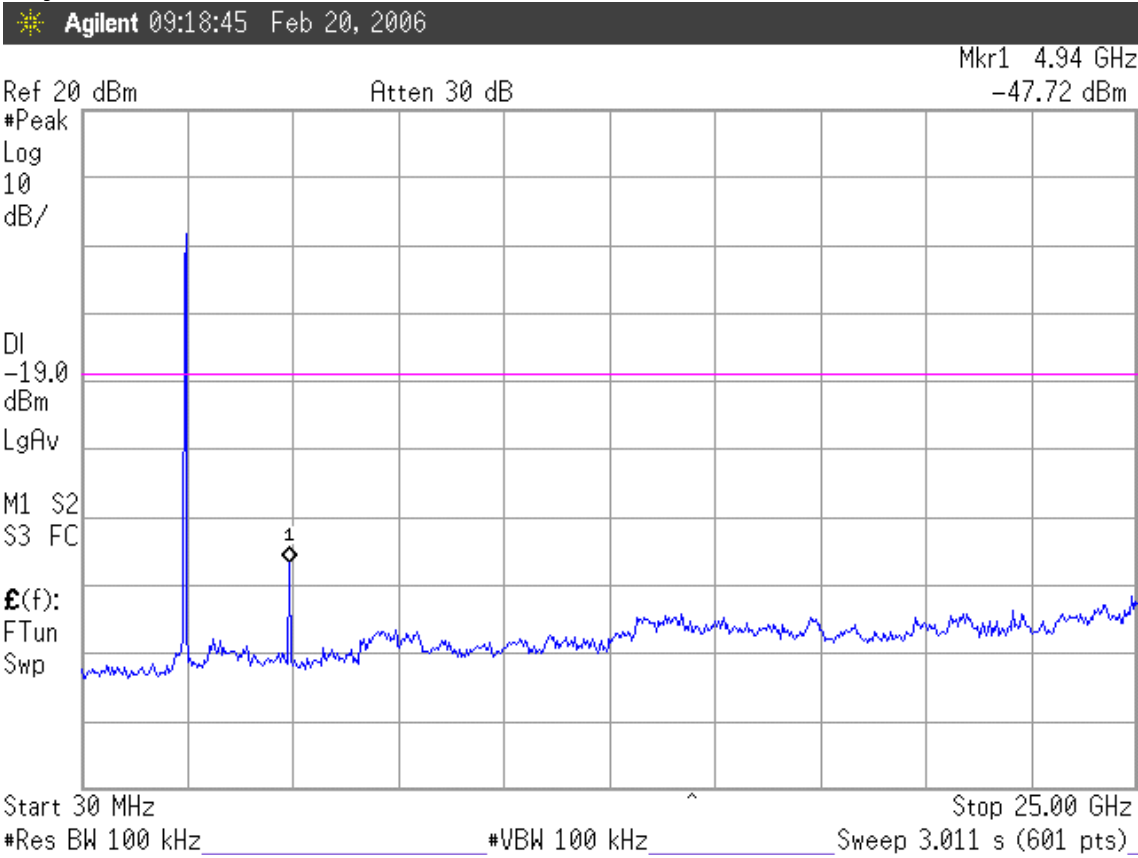
Test Date: Feb. 20, 2006 Temperature: 21 °C Humidity: 52 %

1. 2412MHz: During 30MHz~25GHz bandwidth. In the 2.4GHz, the -34.45dBm is max value that is lower than 20dB of primary channel.
2. 2442MHz: During 30MHz~25GHz bandwidth. In the 2.4GHz, the -37.17dBm is max value that is lower than 20dB of primary channel.
3. 2467MHz: During 30MHz~25GHz bandwidth. In the 2.4GHz, the -47.72dBm is max value that is lower than 20dB of primary channel.

Note: The peak above the limit line is the carrier frequency.

Frequency : 2412MHz**Frequency : 2442MHz**

Frequency : 2467MHz



7. BAND EDGES MEASUREMENT

7.1. Test Equipment

The following test equipment was used during the band edges measurement:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	E4446A	US44300366	Aug. 23, 05'	Aug. 22, 06'

7.2. Block Diagram of Test Setup

The same as section.4.2.

7.3. Specification Limits (§15.247(c))

The highest level should be at least 20 dB below that in the 100kHz bandwidth.

7.4. Operating Condition of EUT

The software IA8 was used to enable the EUT to transmit and receive data at different channel frequency individually.

7.5. Test Procedure

The RF output of EUT was connected to the spectrum analyzer. Set both RBW and VBW of spectrum analyzer to 100kHz with suitable frequency span including 100kHz bandwidth from band edge.

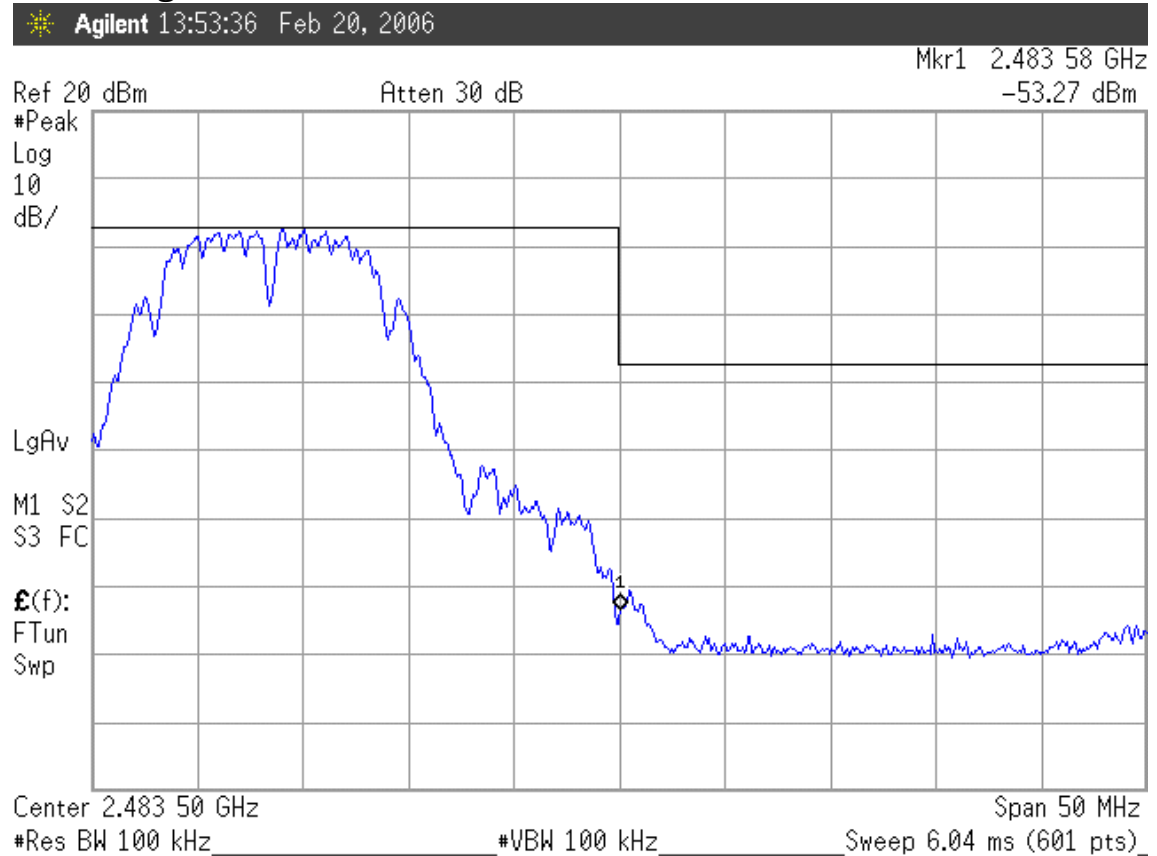
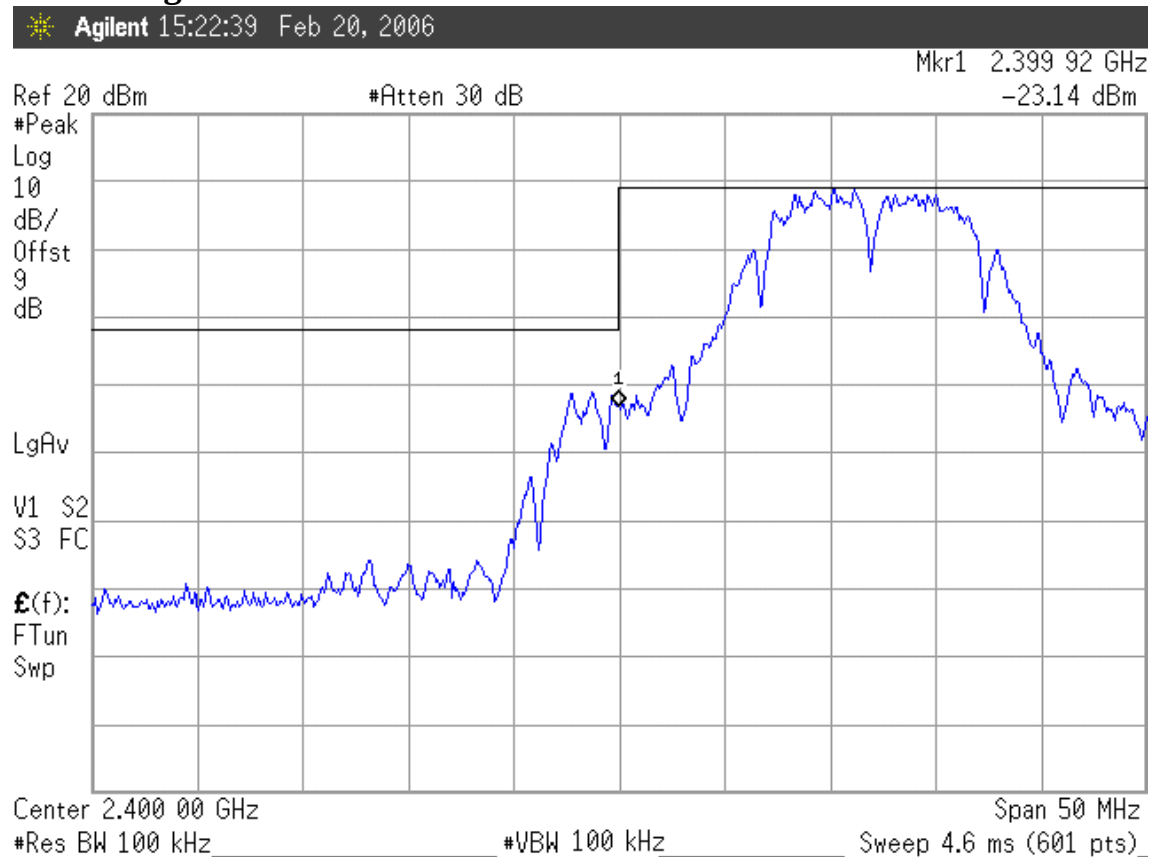
7.6. Test Results

PASSED. All the test results are listed in next page.

EUT: Audio Data Transceiver RF Module M/N: LG-KS.WT0601

Test Date: Feb. 20, 2006 Temperature: 21 °C Humidity: 52 %

1. Below Band edge: The highest emission level is -53.27dBm on 2.48358GHz.
2. Upper Band edge : The highest emission level is -23.14dBm on 2.39992GHz.

Below Band edge**Upper Band edge**

8. POWER SPECTRAL DENSITY MEASUREMENT

8.1. Test Equipment

The following test equipment was used during the power spectral density measurement:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	E4446A	US44300366	Aug. 23, 05'	Aug. 22, 06'

8.2. Block Diagram of Test Setup

The same as section.4.2.

8.3. Specification Limits (§15.247(d))

The peak power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band.

8.4. Operating Condition of EUT

The software IA8 was used to enable the EUT to transmit and receive data at different channel frequency individually.

8.5. Test Procedure

The RF output of EUT was connected to the spectrum analyzer. The bandwidth of the fundamental frequency was measured with the spectrum analyzer using 3kHz RBW and 30kHz VBW, set sweep time = span/3kHz.

8.6. Test Results

PASSED. All the test results are listed in next pages.

EUT: Audio Data Transceiver RF Module

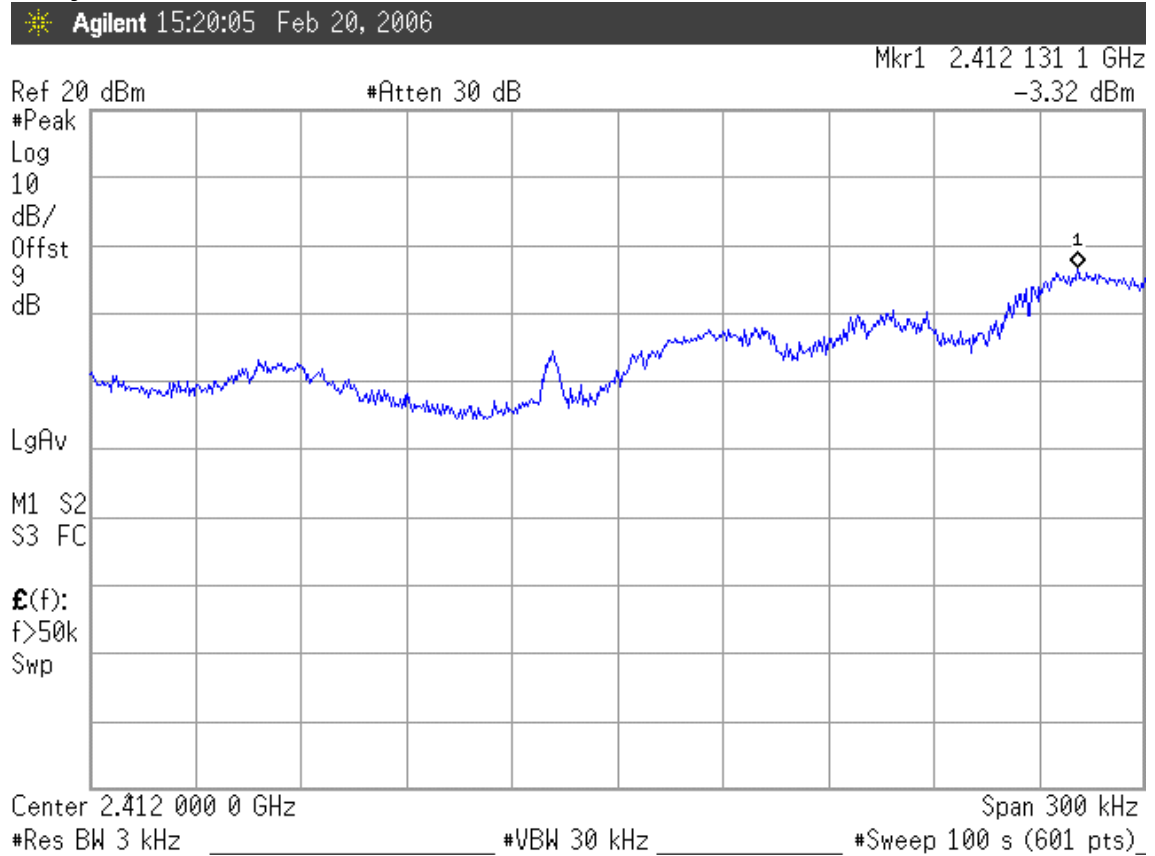
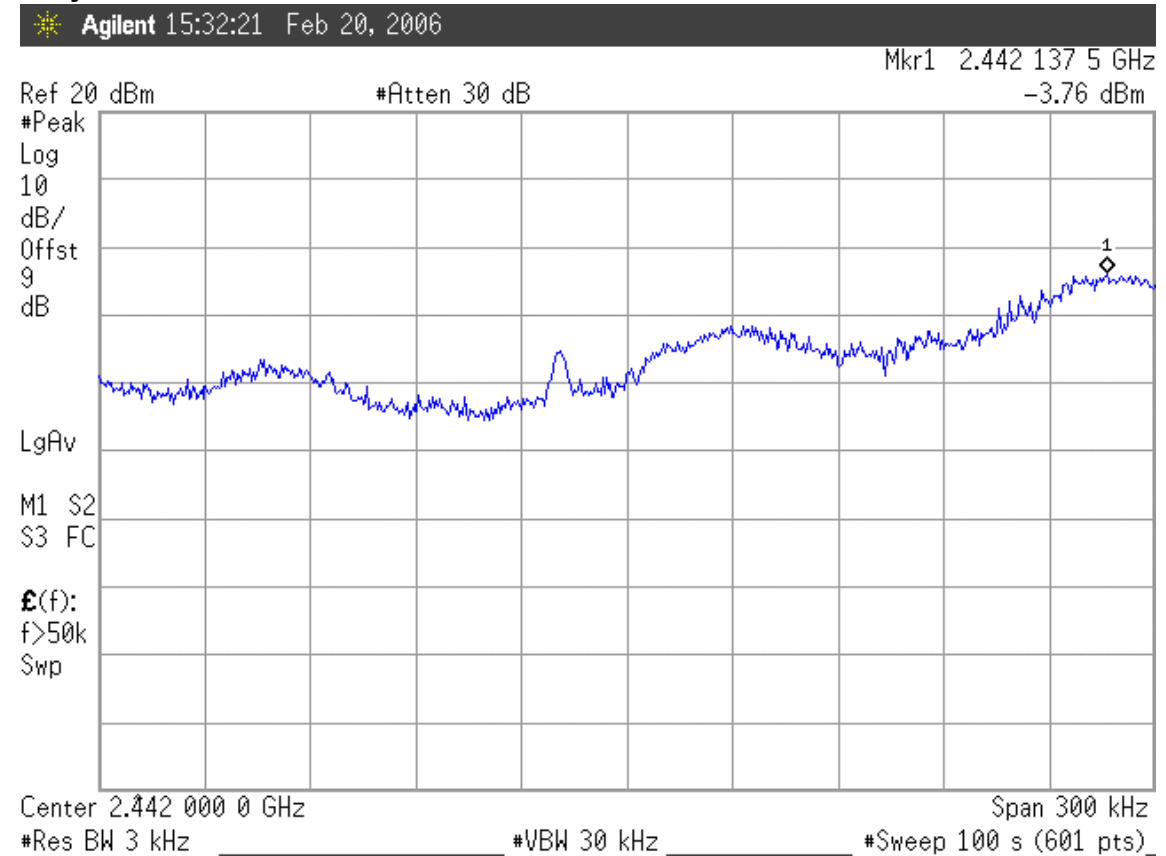
M/N: LG-KS.WT0601

Test Date: Feb. 20, 2006

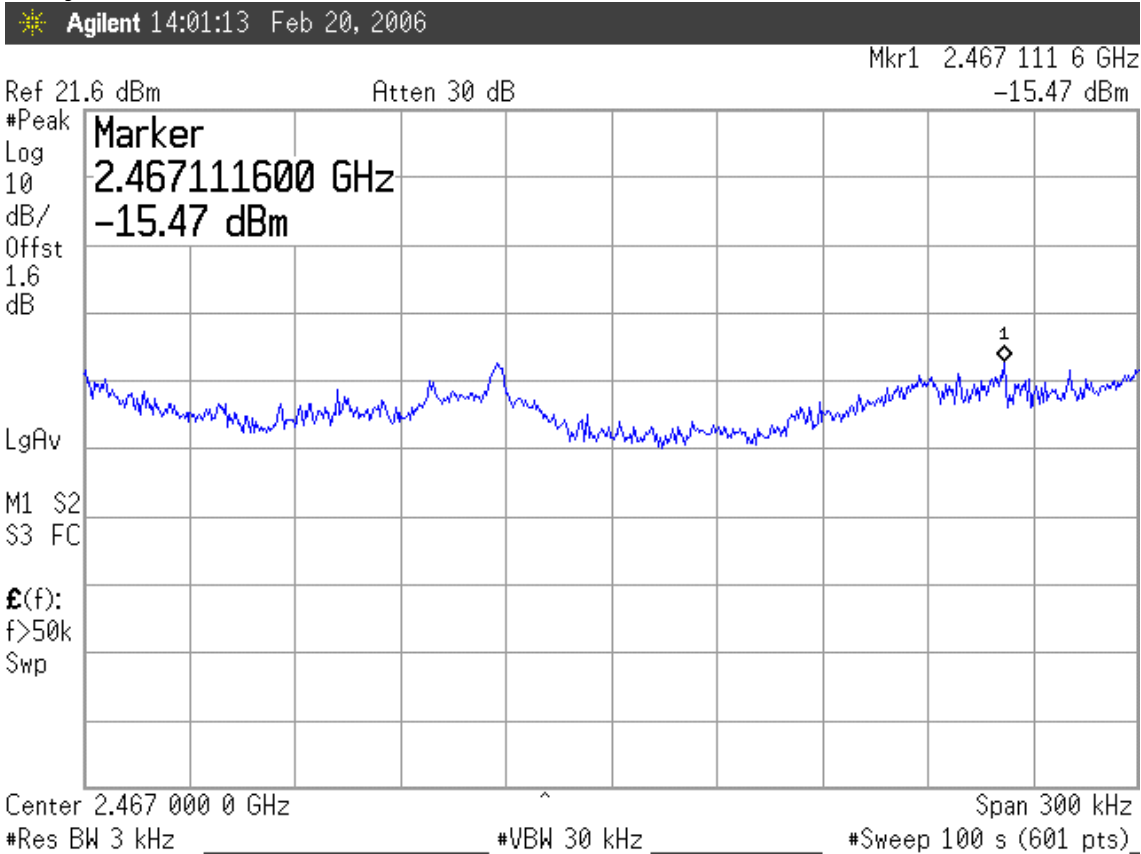
Temperature: 21 °C

Humidity: 52 %

Channel	Frequency	Power Spectral Density	Limit
1.	2412MHz	-3.32dBm	8dBm
7.	2442MHz	-3.76dBm	8dBm
12.	2467MHz	-15.47dBm	8dBm

Frequency : 2412MHz**Frequency : 2442MHz**

Frequency : 2467MHz



9. DEVIATION TO TEST SPECIFICATIONS

【NONE】

10. PHOTOGRAPHS

10.1. Photos of Conducted Emission Measurement



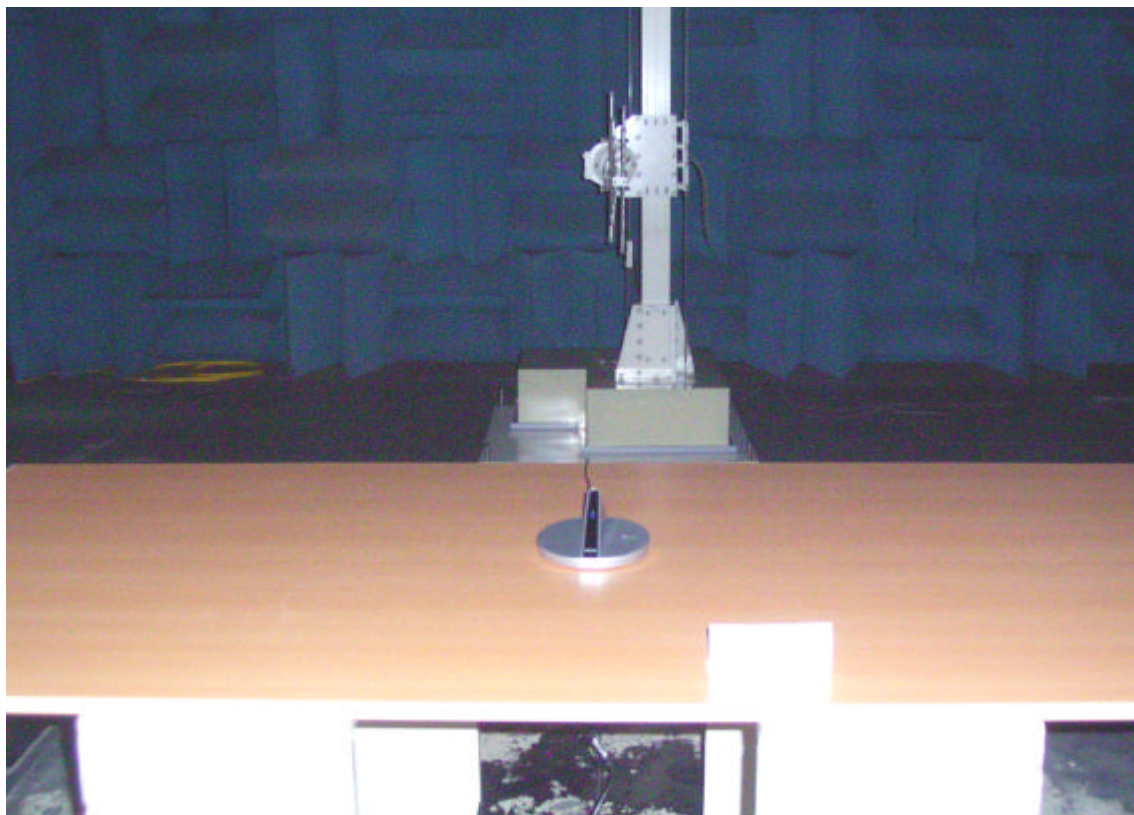
FRONT VIEW OF CONDUCTED MEASUREMENT



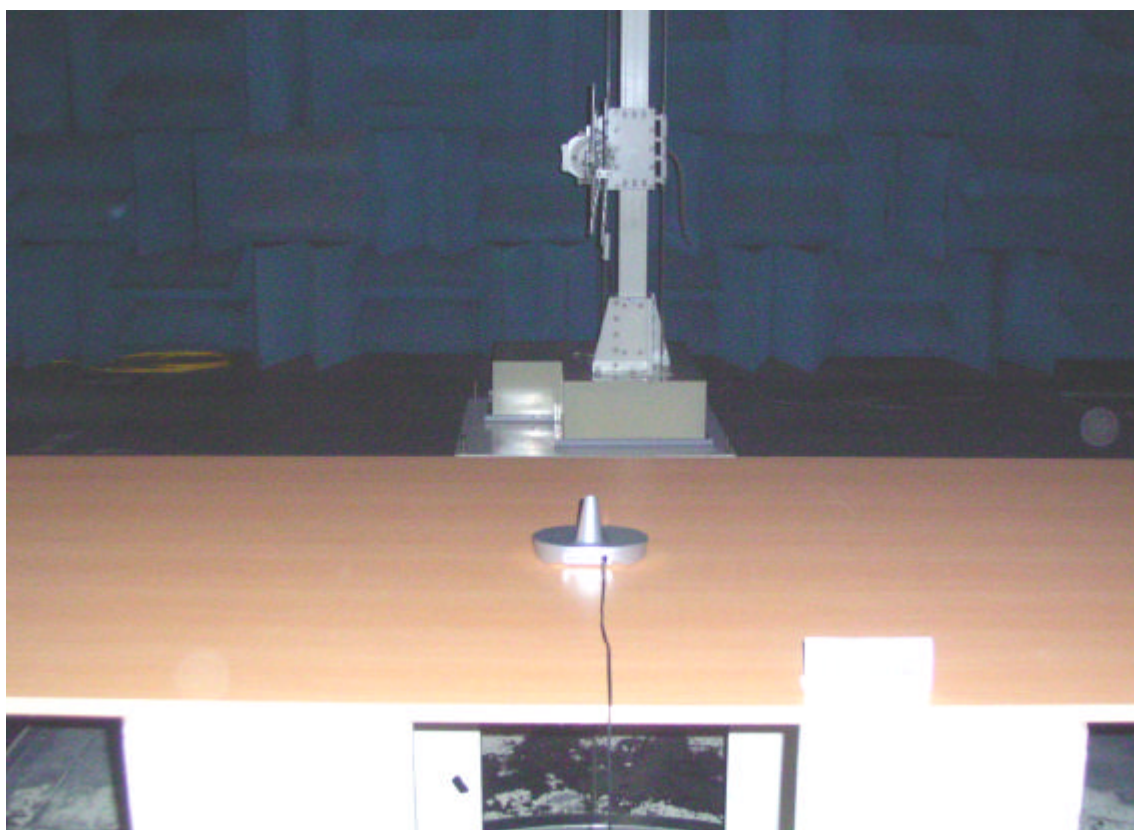
BACK VIEW OF CONDUCTED MEASUREMENT

10.2. Photos of Radiated Measurement at Semi-Anechoic Chamber

10.2.1. Frequency Range: 30MHz to 1GHz

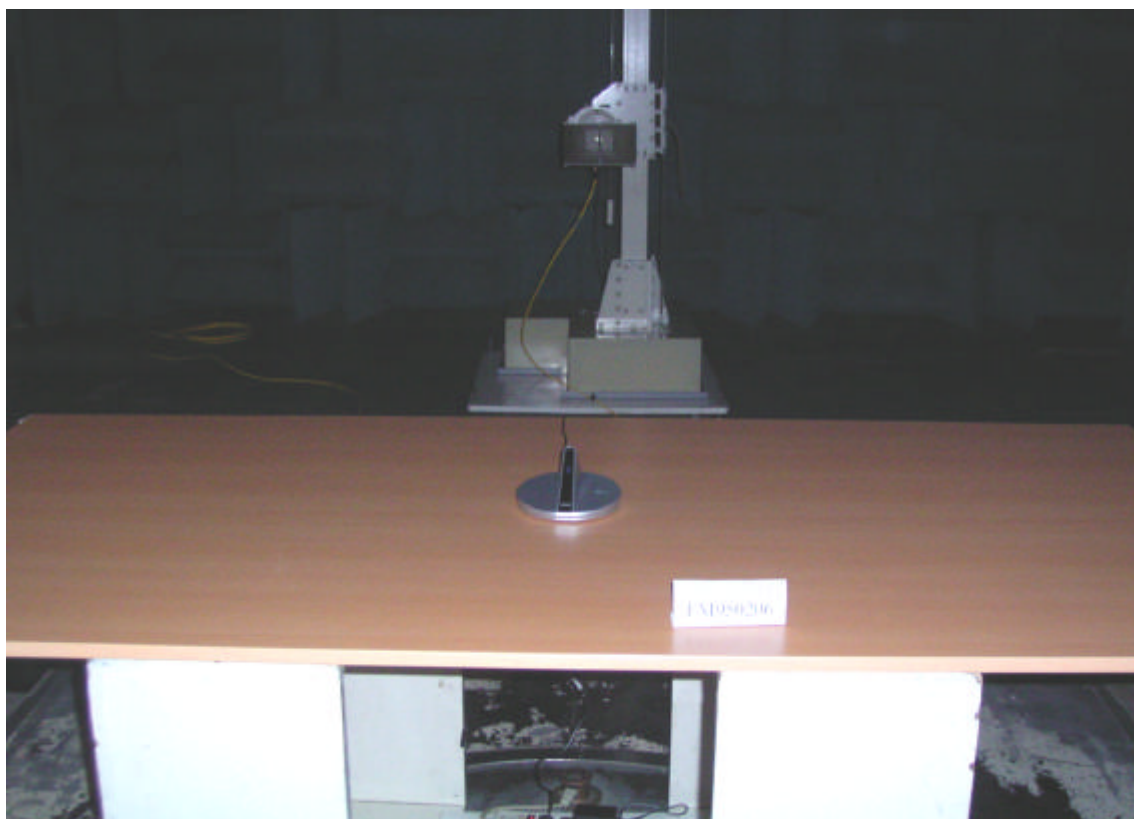


FRONT VIEW OF RADIATED MEASUREMENT

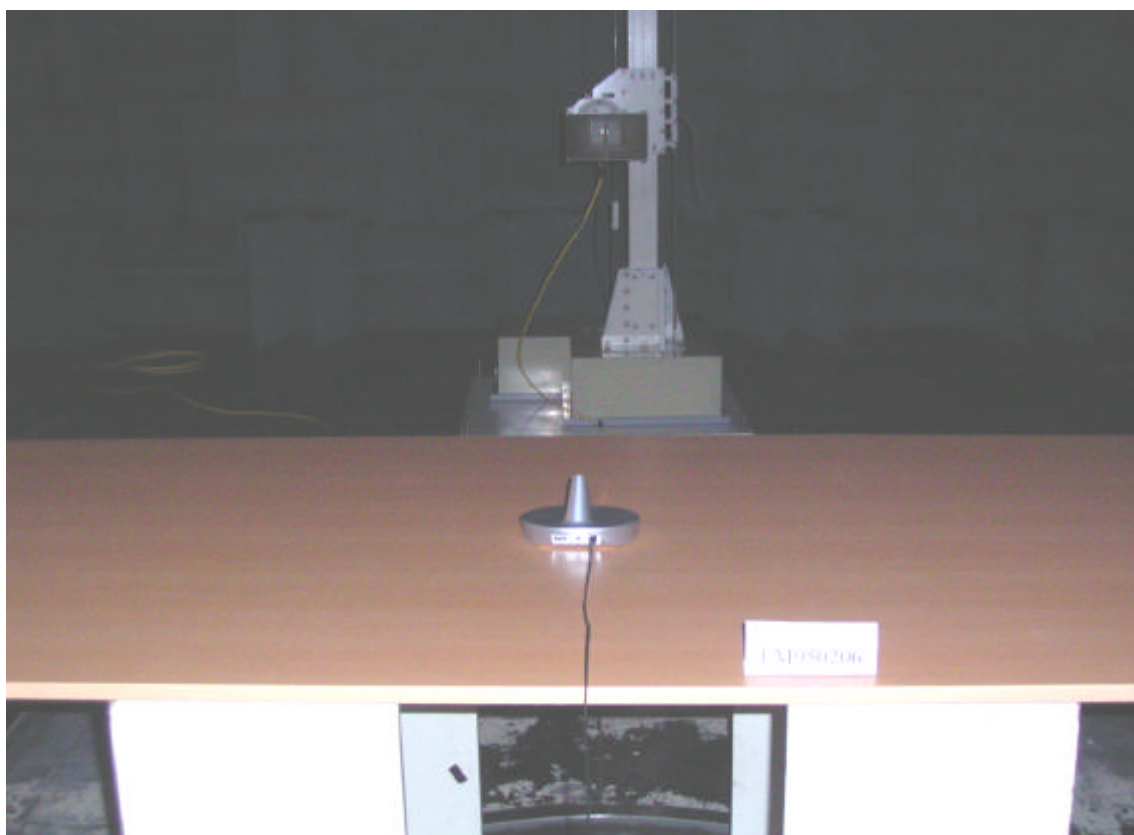


BACK VIEW OF RADIATED MEASUREMENT

10.2.2. Frequency Range: Above 1GHz



FRONT VIEW OF RADIATED MEASUREMENT



BACK VIEW OF RADIATED MEASUREMENT

10.3. Photo of 6dB Bandwidth Measurement



10.4. Photo of Maximum Peak Output Measurement



10.5. Photo of Emission Limitations Measurement



10.6. Photo of Band Edges Measurement



10.7. Photo of Power Spectral Density Measurement

