



EMI TEST REPORT

Test Report No. : 24EE0151-HO

Applicant : **Sharp Corporation**

Type of Equipment : **Facsimile Equipment / Cordless Handset**

Model No. : **UX-CD600 (Facsimile Equipment)**
UX-CD600K (Cordless Handset)
UX-K02 (Accessory Handset)

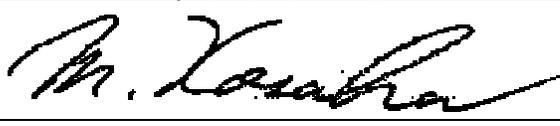
Test standard : **FCC Part 15 Subpart C**
Section 15.207, Section 15.247

FCC ID : **APYHRO00034**

Test Result : **Complied**

1. This test report shall not be reproduced in full or partial, without the written approval of UL Apex Co., Ltd.
2. The results in this report apply only to the sample tested.
3. This equipment is in compliance with above regulation. We hereby certify that the data contain a true representation of the EMC profile.
4. The test results in this report are traceable to the national or international standards.
5. This test report does not constitute an endorsement by NIST/NVLAP or U.S. Government.

Date of test : January 7, 14, 15, and 20, 2004

Tested by : 

Makoto Kosaka
EMC Service

Approved by : 

Hironobu Shimoji
Group Leader of EMC Service

UL Apex Co., Ltd.

Head Office EMC Lab.

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone : +81 596 24 8116

Facsimile : +81 596 24 8124

MF060b(10.04.03)

CONTENTS **PAGE**

SECTION 1: Client information..... 3
SECTION 2: Equipment under test (E.U.T.) 3
SECTION 3: Test specification, procedures & results 5
SECTION 4: Operation of E.U.T. during testing..... 7
SECTION 5: Conducted Emission, Section 15.207 8
SECTION 6: Carrier Frequency Separation, Section15.247(a)(1)..... 8
SECTION 7: 20dB Bandwidth, Section 15.247(a)(1) 8
SECTION 8: Number of Hopping Frequency, Section 15.247(a)(1)(iii) 8
SECTION 9: Dwell time, Section 15.247(a)(1)(iii) 9
SECTION 10: Maximum Peak Output Power, Section 15.247(b)(1) 9
SECTION 11: Band Edge Compliance, Section 15.247(c) 9
SECTION 12: Spurious Emission , Section 15.247(c)..... 10
APPENDIX 1: Photographs of test setup..... 11
 Conducted Emission(Facsimile Equipment: Tx)..... 11
 Conducted Emission(Facsimile Equipment: Intercom)..... 12
 Conducted Emission(Cordless Handset: Charging) 13
 Conducted Emission(Cordless Handset: Intercom)..... 14
 Spurious Emission (Radiated)Facsimile Equipment..... 15
 Worst Case Position (0deg:Horizontal / 90deg:Vertical)..... 16
 Worst Case Position (X-axis:Horizontal / Y-axis:Vertical)..... 17
APPENDIX 2: Test instruments 18
APPENDIX 3: Data of EMI test 19
 Conducted Emission(Facsimile Equipment)..... 19
 Carrier Frequency Separation 25
 20dB Bandwidth 29
 Number of Hopping Frequency 33
 Dwell time..... 37
 Maximum Peak Output Power 41
 AC102V(85%)..... 41
 AC120V(100%) 41
 AC138V(115%) 41
 Band Edge compliance (Cordless Handset) 45
 Spurious Emission(Radiated) (Facsimile Equipment)..... 47
 Spurious Emission(Radiated) (Cordless Handset) 64
 Spurious Emission(Conducted) (Facsimile Equipment)..... 66
 Spurious Emission(Conducted) (Cordless Handset) 68
 99% Occupied Bandwidth..... 71

UL Apex Co., Ltd.

Head Office EMC Lab.

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone : +81 596 24 8116

Facsimile : +81 596 24 8124

MF060b(10.04.03)

SECTION 1: Client information

Company Name : Sharp Corporation
Address : 492 Minosho-cho, Yamatokoriyama-shi, Nara 639-1186 Japan
Telephone Number : +81-743-55-4085
Facsimile Number : +81-743-52-9514
Contact Person : Shigekazu Fujiwara

SECTION 2: Equipment under test (E.U.T.)

2.1 Identification of E.U.T.

Type of Equipment : Facsimile Equipment / Cordless Handset
Model No. : UX-CD600 (Facsimile Equipment)
UX-CD600K (Cordless Handset)
UX-K02 (Accessory Handset)

Sample No. : No.2 / No.1 (Facsimile Equipment)
No.5 / No.28 (Cordless Handset)
*Facsimile Equipment, Sample No.1, and Cordless Handset,
Sample No.28, were made over for conducted test of radio.

Country of Manufacture : Thailand
Receipt Date of Sample : January 7, 2004
Condition of EUT : Engineering prototype

2.2 Product Description

Sharp Corporation., Model : UX-CD600 is a Facsimile Equipment and Model: UX-600K is a Cordless Handset.
UX-K01 is an optional Cordless Handset . UX-K01 is equal to UX-600K in electric circuit and software to control.

Frequency Range	2405.3 – 2474.5 MHz
Transmit Power Control	NIL
Duplexing Technique	Time Division Duplex (TDD)
Multiplex Access	TDMA (24 time slot)
Spreading Scheme	Frequency Hopping
Speech Encoding	32K ADPCM
Hop Sequence	Pseudo PN code
Channel Symbol Rate	1.152Kbps
Channel Spacing	1.728MHz
Number of Channels	47 Channels
Number of Active Channels	17 Channels (minimum)
Dwell Time	10mS (maximum)
Hopping Rate	100 hop/sec
Modulation	GFSK
Antenna type	Dipole Antenna (Facsimile Equipment) 1/4 Lambda Whip Antenna (Cordless Handset)
Antenna Gain	3.56dBi (Facsimile Equipment)/1.59dBi (Cordless Handset)
Other frequency	<FAX/UX-CD600> 32.256MHz(Control PWB; System Clock), 32.768kHz(Control PWB; Clock) 13.824MHz(Control PWB; Base band), 1.6GHz(RF Module; VCO) <Cordless/UX-CD600K, UX-K02> 13.824MHz (Cordless PWB; Base band), 1.6GHz (RF Module; VCO)

UL Apex Co., Ltd.

Head Office EMC Lab.

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone : +81 596 24 8116

Facsimile : +81 596 24 8124

MF060b(10.04.03)

FCC Part 15.203 Antenna requirement

Type of Equipment and its antenna comply with this requirement since they are built in host device Model No. UX-CD600 When they are put up for sale and they are used with a particular antenna connector for this EUT.

Verification of the frequency and channel

Channel	Base / Handset MHz	Channel	Base / Handset MHz	Channel	Base / Handset MHz
0	2401.920	16	2429.568	32 *2	2457.216
1	2403.648	17 *2	2431.296	33	2458.944
2 *1,2	2405.376	18	2433.024	34	2460.672
3	2407.104	19	2434.752	35 *2	2462.400
4	2408.832	20 *2	2436.480	36	2464.128
5 *2	2410.560	21	2438.208	37 *2	2465.856
6	2412.288	22 *1,2	2439.936	38	2467.584
7 *2	2414.016	23	2441.664	39	2469.312
8	2415.744	24	2443.392	40 *2	2471.040
9	2417.472	25 *2	2445.120	41	2472.768
10 *2	2419.200	26	2446.848	42 *1,2	2474.496
11	2420.928	27 *2	2448.576	43	2476.224
12 *2	2422.656	28	2450.304	44	2477.952
13	2424.384	29	2452.032	45	2479.680
14	2426.112	30 *2	2453.760	46	2481.408
15 *2	2427.840	31	2455.488		

*1 Tested channel / *2 Active Channels / Other Channels are not used in this product.

UL Apex Co., Ltd.

Head Office EMC Lab.

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone : +81 596 24 8116

Facsimile : +81 596 24 8124

MF060b(10.04.03)

SECTION 3: Test specification, procedures & results

3.1 Test Specification

Test Specification : FCC Part15 Subpart C

Title : FCC 47CFR Part15 Radio Frequency Device Subpart C Intentional Radiators
Section 15.207 Conducted limits
Section 15.247 Operation within the bands 902-928MHz,
2400-2483.5MHz, and 5725-5850MHz

3.2 Procedures and results

No.	Item	Test Procedure	Specification	Remarks	Deviation	Worst margin	Results
1	Conducted emission	ANSI C63.4:2001	Section 15.207	-	N/A	10.2dB(Base) 153kHz, N 20.0dB(Hand) 200kHz, L	Complied
2	Carrier Frequency Separation	ANSI C63.4:2001	Section15.247(a)(1)	Conducted	N/A	-	Complied
3	20dB Bandwidth	ANSI C63.4:2001	Section15.247(a)(1)	Conducted	N/A	-	Complied
4	Number of Hopping Frequency	ANSI C63.4:2001	Section15.247(a)(1)(iii)	Conducted	N/A	-	Complied
5	Dwell time	ANSI C63.4:2001	Section15.247(a)(1)(iii)	Conducted	N/A	-	Complied
6	Maximum Peak Output Power	ANSI C63.4:2001	Section15.247(b)(1)	Conducted	N/A	-	Complied
7	Band Edge Compliance	ANSI C63.4:2001	Section15.247(c)	Conducted	N/A	-	Complied
8	Spurious Emission	ANSI C63.4:2001	Section15.247(c)	Conducted/ Radiated	N/A	0.8dB(Base) 7.321093GHz(V) 2.5dB(Hand) 4.880747GHz(V)	Complied

Note: UL Apex's EMI Work Procedures No.QPM05.

*These tests were also referred to FCC Public Notice DA 00-705 "Guidance on Measurement for Frequency Hopping Spread Spectrum Systems".

*These tests were performed without any deviations from test procedure except for additions or exclusions.

3.3 Addition to standards

No.	Item	Test Procedure	Specification	Remarks	Deviation	Worst margin	Results
1	99% Occupied Band Width	RSS210(issue 5) + Amendment	RSS210(issue 5) + Amendment	Conducted	N/A	N/A	N/A

UL Apex Co., Ltd.

Head Office EMC Lab.

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone : +81 596 24 8116

Facsimile : +81 596 24 8124

MF060b(10.04.03)

3.4 Confirmation

UL Apex Co., Ltd. hereby confirms that E.U.T., in the configuration tested, complies with the specifications FCC Part 15 Subpart C Section 15.207 and 15.247.

3.5 Uncertainty

Conducted Emission

The measurement uncertainty (with a 95% confidence level) for this test is ± 1.3 dB.
The data listed in this test report has enough margin.

Spurious Emission (Radiated)

The measurement uncertainty (with a 95% confidence level) for this test using Biconical antenna is ± 4.5 dB(3m).
The measurement uncertainty (with a 95% confidence level) for this test using Logperiodic antenna is ± 5.2 dB(3m).
The measurement uncertainty (with a 95% confidence level) for this test using Horn antenna is ± 6.6 dB.
The result is within Head Office EMC lab's uncertainty.

Other test except Conducted Emission and Spurious Emission (Radiated)

The measurement uncertainty (with a 95% confidence level) for this test is ± 3.0 dB.
The data listed in this test report has enough margin.

3.6 Test Location

UL Apex Co., Ltd. Head Office EMC Lab.

No.2 semi anechoic chamber and No.3 measurement room

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone : +81 596 24 8116

Facsimile : +81 596 24 8124

No.2 semi anechoic chamber has been fully described in a report submitted to FCC office, and listed on June 05, 2002. (Registration number: No.2:846015 Industry Canada: No.2: IC4247-2)

*NVLAP Lab. code: 200572-0

3.7 Test set up, Test instruments and Data of EMI

Refer to APPENDIX 1 to 3.

UL Apex Co., Ltd.

Head Office EMC Lab.

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone : +81 596 24 8116

Facsimile : +81 596 24 8124

MF060b(10.04.03)

SECTION 4: Operation of E.U.T. during testing

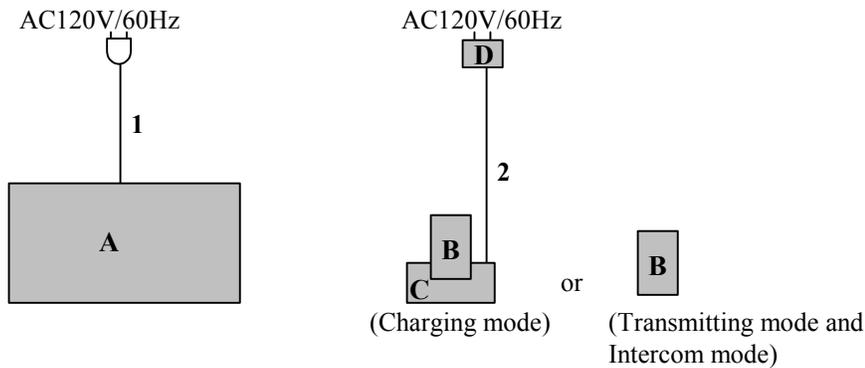
4.1 Operating Modes

The EUT exercise program used during radiated and conducted testing was designed to exercise the various system components in a manner similar to typical use.

The sequence is used :
Transmitting mode
Low Channel 2 : 2405.376MHz
Mid Channel 22 : 2439.936MHz
High Channel 42 : 2474.496MHz

Justification: The system was configured in typical fashion (as a customer would normally use it) for testing.

4.2 Configuration and peripherals



* Cabling was taken into consideration and test data was taken under worst case conditions.

Description of EUT and Support equipment

No.	Item	Model number	Serial number	Manufacturer	FCC ID
A	Facsimile Equipment	UX-CD600		Sharp	APYHRO00034
B	Cordless Handset	UX-CD600K		Sharp	APYHRO00034
C	Cordless Handset Charger			Sharp	
D	AC Adaptor	A20930N		Sharp	

List of cables used

No.	Name	Length (m)	Shield	Backshell Material
1	AC Power Cable	1.85	N	Polyvinyl chloride
2	DC Power Cable	1.95	N	Polyvinyl chloride

SECTION 5: Conducted Emission, Section 15.207

Test Procedure

EUT was placed on a platform of nominal size, 1m by 1.5m, raised 80cm above the conducting ground plane. The rear of tabletop was located 40cm to the vertical conducting plane. The rear of EUT, including peripherals aligned and flushed with rear of tabletop. All other surfaces of tabletop were at least 80cm from any other grounded conducting surface. EUT was located 80cm from LISN and excess AC cable was bundled in center. They were folded back and forth forming a bundle 30cm to 40cm long and were hanged at a 40cm height to the ground plane. Each EUT current-carrying power lead, except the ground (safety) lead, was individually connected through a LISN to the input power source. All unused 50ohm connectors of the LISN were resistively terminated in 50ohm when not connected to the measuring equipment.

The AC Mains Terminal Continuous disturbance Voltage has been measured with the EUT on a reference ground plane 4.0 x 4.0m in a No.2 semi Anechoic Chamber.

The EUT was connected to a Line Impedance Stabilization Network (LISN).

An overview sweep with peak detection has been performed.

The measurements have been performed with a CISPR quasi-peak detector (IF BW 9 kHz).

Measurement range: 0.15-30MHz

Test data : **APPENDIX 3**
Test result : **Pass**

SECTION 6: Carrier Frequency Separation, Section15.247(a)(1)

Test Procedure

The carrier frequency separation was measured with a spectrum analyzer connected to the antenna port.

Test data : **APPENDIX 3**
Test result : **Pass**

SECTION 7: 20dB Bandwidth, Section 15.247(a)(1)

Test Procedure

The 20dB bandwidth was measured with a spectrum analyzer connected to the antenna port.

Test data : **APPENDIX 3**
Test result : **Pass**

SECTION 8: Number of Hopping Frequency, Section 15.247(a)(1)(iii)

Test Procedure

The Number of Hopping Frequency was measured with a spectrum analyzer connected to the antenna port.

Test data : **APPENDIX 3**
Test result : **Pass**

UL Apex Co., Ltd.

Head Office EMC Lab.

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone : +81 596 24 8116

Facsimile : +81 596 24 8124

MF060b(10.04.03)

SECTION 9: Dwell time, Section 15.247(a)(1)(iii)

Test Procedure

The Dwell time was measured with a spectrum analyzer connected to the antenna port.

Test data : APPENDIX 3
Test result : Pass

SECTION 10: Maximum Peak Output Power, Section 15.247(b)(1)

Test Procedure

The Maximum Peak Output Power was measured with a spectrum analyzer connected to the antenna port.

Test data : APPENDIX 3
Test result : Pass

SECTION 11: Band Edge Compliance, Section 15.247(c)

Test Procedure

The Band Edge Compliance was measured with a spectrum analyzer connected to the antenna port.

Test data : APPENDIX 3
Test result : Pass

UL Apex Co., Ltd.

Head Office EMC Lab.

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone : +81 596 24 8116

Facsimile : +81 596 24 8124

MF060b(10.04.03)

SECTION 12: Spurious Emission , Section 15.247(c)

[Conducted]

Test Procedure

The Spurious Emission (Conducted) was measured with a spectrum analyzer connected to the antenna port.

Test data : APPENDIX 3
Test result : Pass

[Radiated]

Test Procedure

EUT was placed on a platform of nominal size, 1m by 1.5m, raised 80cm above the conducting ground plane.

Test was made with the antenna positioned in both the horizontal and vertical planes of polarization.

The Radiated Electric Field Strength intensity has been measured in No.2 semi anechoic chamber (7.5x5.8x5.2m) with a ground plane at a distance of 3m.

The measuring antenna height was varied between 1 to 4m and EUT was rotated a full revolution in order to obtain the maximum value of the electric field intensity.

The measurements were performed for both vertical and horizontal antenna polarization.

The result was also satisfied the general limits specified in section 15.209(a).

Test data : APPENDIX 3
Test result : Pass

UL Apex Co., Ltd.

Head Office EMC Lab.

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone : +81 596 24 8116

Facsimile : +81 596 24 8124

MF060b(10.04.03)

APPENDIX 1: Photographs of test setup

Conducted Emission(Facsimile Equipment: Tx)

Front



Rear



Conducted Emission(Facsimile Equipment: Intercom)

Front



Rear



Conducted Emission(Cordless Handset: Charging)

Front



Rear



Conducted Emission(Cordless Handset: Intercom)

Front



Rear



Spurious Emission (Radiated)Facsimile Equipment

Front



Rear



Worst Case Position (0deg:Horizontal / 90deg:Vertical)

0deg



90deg



180deg



Worst Case Position (X-axis:Horizontal / Y-axis:Vertical)

X-axis



Y-axis



Z-axis



APPENDIX 2: Test instruments

EMI test equipment

Control No.	Instrument	Manufacturer	Model No	Test Item	Calibration Date * Interval(month)
MAEC-02	Anechoic Chamber	TDK	Semi Anechoic Chamber 3m	9	2003/04/11 * 12
MHA-06	Horn Antenna	Schwarzbeck	BBHA9120D	9	2004/01/10 * 12
MHA-02	Horn Antenna	EMCO	3160-09	9	2004/01/10 * 12
MPA-01	Pre Amplifier	Agilent	8449B	9	2003/02/08 * 12
MRENT-07	Spectrum Analyzer	Advantest	R3273	1,9	2003/10/31 * 12
MHF-02	High Pass Filter	Tokimec	TF323DCA	9	2003/09/19 * 12
MAT-20	Attenuator	HIROSE ELECTRIC CO.,LTD.	AT-110	9	2003/02/04 * 12
MCC-04	Microwave Cable	Storm	421-011	9	2004/01/06 * 12
MCC-24	Microwave Cable	Storm	-	9	2003/04/30 * 12
MBA-03	Biconical Antenna	Schwarzbeck	BBA9106	9	2003/04/28 * 12
MLA-03	Logperiodic Antenna	Schwarzbeck	USLP9143	9	2003/04/28 * 12
MAT-07	Attenuator(6dB)	Weinschel Corp	2	9	2003/12/16 * 12
MPA-02	Pre Amplifier	Agilent	87405A	9	2003/04/17 * 12
MCC-12	Coaxial Cable	Fujikura/Agilent	-	9	2003/05/08 * 12
MLS-07	LISN(AMN)	Schwarzbeck	NSLK8127	1(EUT)	2003/03/18 * 12
MLS-03	LISN(AMN)	Schwarzbeck	NSLK8127	1	2003/11/10 * 12
MCC-13	Coaxial Cable	Fujikura/Agilent	-	1	2003/05/08 * 12
MAT-04	Attenuator(3dB)	Weinschel Corp	2	1	2003/12/16 * 12
MTR-02	Test Receiver	Rohde & Schwarz	ESCS30	1,9	2003/01/31 * 12
MRENT-08	Spectrum Analyzer	Advantest	R3272	2 to 8	2003/12/14 * 12
MAT-21	Attenuator	HIROSE ELECTRIC CO.,LTD.	AT-120	2 to 8	2003/02/03 * 12

All equipment is calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

Test Item :

1. Conducted emission
2. Carrier Frequency Separation
3. 20dB Bandwidth
4. Number of Hopping Frequency
5. Dwell time
6. Maximum Peak Output Power
7. Band Edge Compliance
8. Spurious Emission(Conducted)
9. Spurious Emission(Radiated)

UL Apex Co., Ltd.

Head Office EMC Lab.

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone : +81 596 24 8116

Facsimile : +81 596 24 8124

MF060b(10.04.03)

APPENDIX 3: Data of EMI test

Conducted Emission(Facsimile Equipment)
Ch2: 2405.376MHz

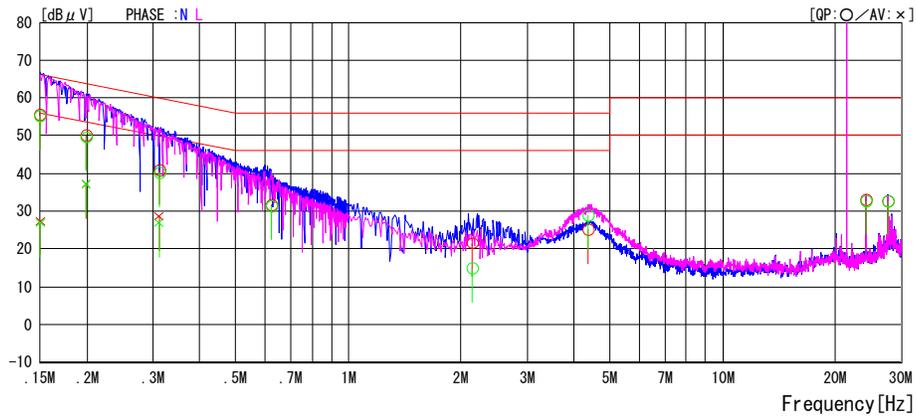
DATA OF CONDUCTED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2004/01/20 01:12:31

Applicant : SHARP Corporation
Kind of EUT : Facsimile Equipmet
Model No. : UX-CD600
Sample No. : 2
Report No. : 24EE0151-HO
Power : AC120V / 60Hz
Temp°C/Humi% : 25 / 29
Operator : Makoto Kosaka

Mode / Remarks : Tx (ch 2: 2405.376MHz)

LIMIT : FCC15C § 15.207 (QP)
FCC15C § 15.207 (AV)



NO	FREQ [MHz]	READING		C. F [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dB μV]	AV [dB μV]		QP [dB μV]	AV [dB μV]	QP [dB μV]	AV [dB μV]	QP [dB]	AV [dB]	
1	0.1500	55.5	27.2	0.1	55.6	27.3	66.0	56.0	10.4	28.7	N
2	0.1990	50.0	37.0	0.1	50.1	37.1	63.7	53.7	13.6	16.6	N
3	0.3117	40.8	28.5	0.1	40.9	28.6	59.9	49.9	19.0	21.3	N
4	0.6225	31.5	---	0.1	31.6	---	56.0	---	24.4	---	N
5	2.1430	21.1	---	0.5	21.6	---	56.0	---	34.4	---	N
6	4.3826	24.1	---	1.0	25.1	---	56.0	---	30.9	---	N
7	24.1930	31.1	---	1.8	32.9	---	60.0	---	27.1	---	N
8	27.6488	30.8	---	2.0	32.8	---	60.0	---	27.2	---	N
9	0.1500	55.1	26.8	0.1	55.2	26.9	66.0	56.0	10.8	29.1	L
10	0.1990	49.5	37.1	0.1	49.6	37.2	63.7	53.7	14.1	16.5	L
11	0.3117	40.0	26.8	0.1	40.1	26.9	59.9	49.9	19.8	23.0	L
12	0.6225	31.3	---	0.1	31.4	---	56.0	---	24.6	---	L
13	2.1430	14.4	---	0.5	14.9	---	56.0	---	41.1	---	L
14	4.3826	27.8	---	1.0	28.8	---	56.0	---	27.2	---	L
15	24.1930	31.0	---	1.8	32.8	---	60.0	---	27.2	---	L
16	27.6488	30.7	---	2.0	32.7	---	60.0	---	27.3	---	L

CHART:WITHOUT FACTOR,Peak hold data.Data is uncorrected. / Used LISN: MLS-07(EUT)/MLS-03(Other)
Except for the above table : adequate margin data below the limits.

Conducted Emission (Facsimile Equipment)
Ch 22: 2439.936MHz

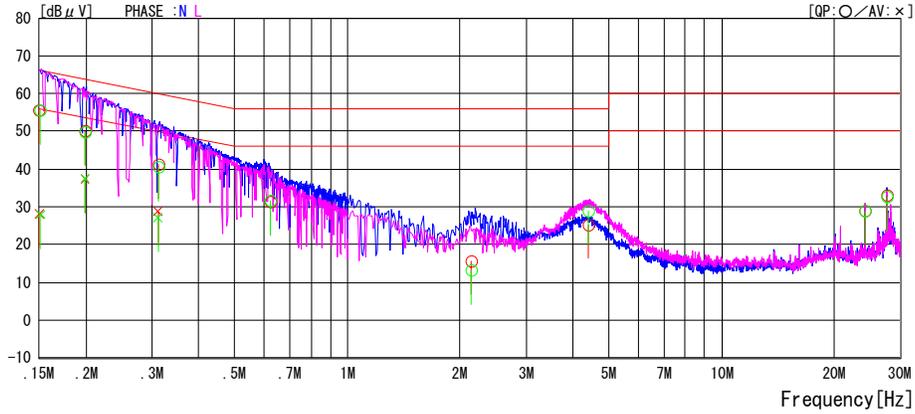
DATA OF CONDUCTED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber
 Date : 2004/01/20 01:13:07

Applicant : SHARP Corporation
 Kind of EUT : Facsimile Equipmet
 Model No. : UX-CD600
 Sample No. : 2
 Report No. : 24EE0151-HO
 Power : AC120V / 60Hz
 Temp°C/Humi% : 25 / 29
 Operator : Makoto Kosaka

Mode / Remarks : Tx (ch 22: 2439.936MHz)

LIMIT : FCC15C § 15.207 (QP)
 FCC15C § 15.207 (AV)



NO	FREQ [MHz]	READING		C. F [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dB μV]	AV [dB μV]		QP [dB μV]	AV [dB μV]	QP [dB μV]	AV [dB μV]	QP [dB]	AV [dB]	
1	0.1500	55.6	28.1	0.1	55.7	28.2	66.0	56.0	10.3	27.8	N
2	0.1990	49.9	37.3	0.1	50.0	37.4	63.7	53.7	13.7	16.3	N
3	0.3117	41.0	28.6	0.1	41.1	28.7	59.9	49.9	18.8	21.2	N
4	0.6225	31.3	---	0.1	31.4	---	56.0	---	24.6	---	N
5	2.1430	15.2	---	0.5	15.7	---	56.0	---	40.3	---	N
6	4.3938	24.3	---	1.0	25.3	---	56.0	---	30.7	---	N
7	24.1930	27.1	---	1.8	28.9	---	60.0	---	31.1	---	N
8	27.6488	30.9	---	2.0	32.9	---	60.0	---	27.1	---	N
9	0.1510	55.4	27.8	0.1	55.5	27.9	65.9	55.9	10.4	28.0	L
10	0.1990	49.8	37.4	0.1	49.9	37.5	63.7	53.7	13.8	16.2	L
11	0.3117	40.3	27.0	0.1	40.4	27.1	59.9	49.9	19.5	22.8	L
12	0.6225	31.5	---	0.1	31.6	---	56.0	---	24.4	---	L
13	2.1430	12.7	---	0.5	13.2	---	56.0	---	42.8	---	L
14	4.3938	28.0	---	1.0	29.0	---	56.0	---	27.0	---	L
15	24.1930	27.2	---	1.8	29.0	---	60.0	---	31.0	---	L
16	27.6488	30.7	---	2.0	32.7	---	60.0	---	27.3	---	L

CHART:WITHOUT FACTOR, Peak hold data. Data is uncorrected. / Used LISN: MLS-07(EUT)/MLS-03(Other)
 Except for the above table : adequate margin data below the limits.

Conducted Emission (Facsimile Equipment)
Ch 42: 2474.496MHz

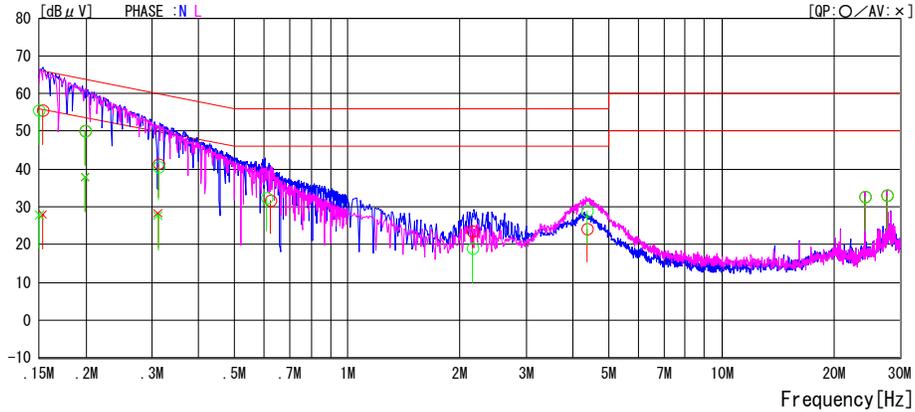
DATA OF CONDUCTED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber
 Date : 2004/01/20 01:14:01

Applicant : SHARP Corporation
 Kind of EUT : Facsimile Equipmet
 Model No. : UX-CD600
 Sample No. : 2
 Report No. : 24EE0151-HO
 Power : AC120V / 60Hz
 Temp°C/Humi% : 25 / 29
 Operator : Makoto Kosaka

Mode / Remarks : Tx (ch 42: 2474.496MHz)

LIMIT : FCC15C § 15.207 (QP)
 FCC15C § 15.207 (AV)



NO	FREQ [MHz]	READING		C. F [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dB μV]	AV [dB μV]		QP [dB μV]	AV [dB μV]	QP [dB μV]	AV [dB μV]	QP [dB]	AV [dB]	
1	0.1530	55.5	27.8	0.1	55.6	27.9	65.8	55.8	10.2	27.9	N
2	0.1990	50.0	37.7	0.1	50.1	37.8	63.7	53.7	13.6	15.9	N
3	0.3117	41.3	28.2	0.1	41.4	28.3	59.9	49.9	18.5	21.6	N
4	0.6212	31.7	---	0.1	31.8	---	56.0	---	24.2	---	N
5	2.1622	22.9	---	0.6	23.5	---	56.0	---	32.5	---	N
6	4.3778	23.3	---	1.0	24.3	---	56.0	---	31.7	---	N
7	24.1925	31.0	---	1.8	32.8	---	60.0	---	27.2	---	N
8	27.6488	31.0	---	2.0	33.0	---	60.0	---	27.0	---	N
9	0.1500	55.5	27.6	0.1	55.6	27.7	66.0	56.0	10.4	28.3	L
10	0.1990	50.0	37.7	0.1	50.1	37.8	63.7	53.7	13.6	15.9	L
11	0.3117	40.5	27.5	0.1	40.6	27.6	59.9	49.9	19.3	22.3	L
12	0.6060	32.4	---	0.1	32.5	---	56.0	---	23.5	---	L
13	2.1622	18.3	---	0.6	18.9	---	56.0	---	37.1	---	L
14	4.3778	28.0	---	1.0	29.0	---	56.0	---	27.0	---	L
15	24.1925	30.9	---	1.8	32.7	---	60.0	---	27.3	---	L
16	27.6488	31.0	---	2.0	33.0	---	60.0	---	27.0	---	L

CHART:WITHOUT FACTOR,Peak hold data.Data is uncorrected. / Used LISN: MLS-07(EUT)/MLS-03(Other)
 Except for the above table : adequate margin data below the limits.

Conducted Emission (Facsimile Equipment)
Intercom

DATA OF CONDUCTED EMISSION TEST

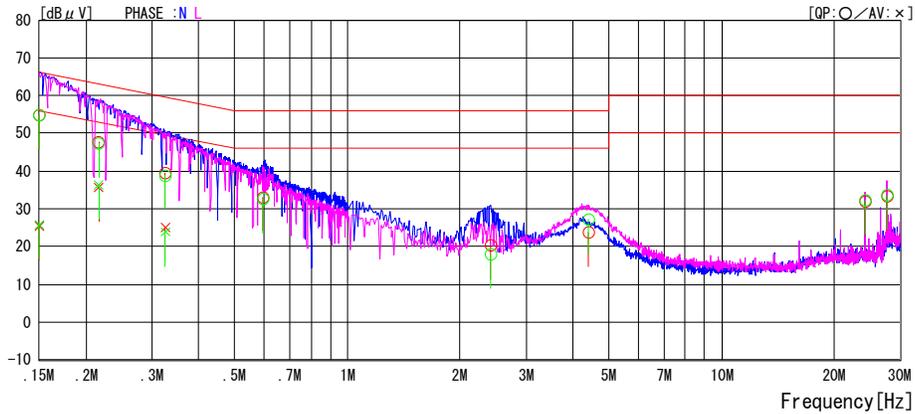
UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber
 Date : 2004/01/20 01:37:41

Applicant : SHARP Corporation
 Kind of EUT : Facsimile Equipmet
 Model No. : UX-CD600
 Sample No. : 2

Report No. : 24EE0151-HO
 Power : AC120V / 60Hz
 Temp°C/Humi% : 25 / 29
 Operator : Makoto Kosaka

Mode / Remarks : Intercom(Calling up Facsimile Equipment from Handset)

LIMIT : FCC15C § 15.207 (QP)
 FCC15C § 15.207 (AV)



NO	FREQ [MHz]	READING		C. F [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dB μV]	AV [dB μV]		QP [dB μV]	AV [dB μV]	QP [dB μV]	AV [dB μV]	QP [dB]	AV [dB]	
1	0.1500	54.8	25.3	0.1	54.9	25.4	66.0	56.0	11.1	30.6	N
2	0.2162	47.6	35.6	0.1	47.7	35.7	63.0	53.0	15.3	17.3	N
3	0.3257	39.4	25.0	0.1	39.5	25.1	59.6	49.6	20.1	24.5	N
4	0.5945	33.0	---	0.1	33.1	---	56.0	---	22.9	---	N
5	2.4136	19.6	---	0.7	20.3	---	56.0	---	35.7	---	N
6	4.3870	22.8	---	1.0	23.8	---	56.0	---	32.2	---	N
7	24.1945	30.2	---	1.8	32.0	---	60.0	---	28.0	---	N
8	27.6488	31.3	---	2.0	33.3	---	60.0	---	26.7	---	N
9	0.1500	54.7	25.6	0.1	54.8	25.7	66.0	56.0	11.2	30.3	L
10	0.2162	47.2	36.1	0.1	47.3	36.2	63.0	53.0	15.7	16.8	L
11	0.3257	38.8	23.7	0.1	38.9	23.8	59.6	49.6	20.7	25.8	L
12	0.5945	32.5	---	0.1	32.6	---	56.0	---	23.4	---	L
13	2.4136	17.3	---	0.7	18.0	---	56.0	---	38.0	---	L
14	4.3870	26.1	---	1.0	27.1	---	56.0	---	28.9	---	L
15	24.1945	30.5	---	1.8	32.3	---	60.0	---	27.7	---	L
16	27.6488	31.7	---	2.0	33.7	---	60.0	---	26.3	---	L

CHART:WITHOUT FACTOR, Peak hold data. Data is uncorrected. / Used LISN: MLS-07(EUT)/MLS-03(Other)
 Except for the above table : adequate margin data below the limits.

**Conducted Emission (Cordless Handset)
 Charging**

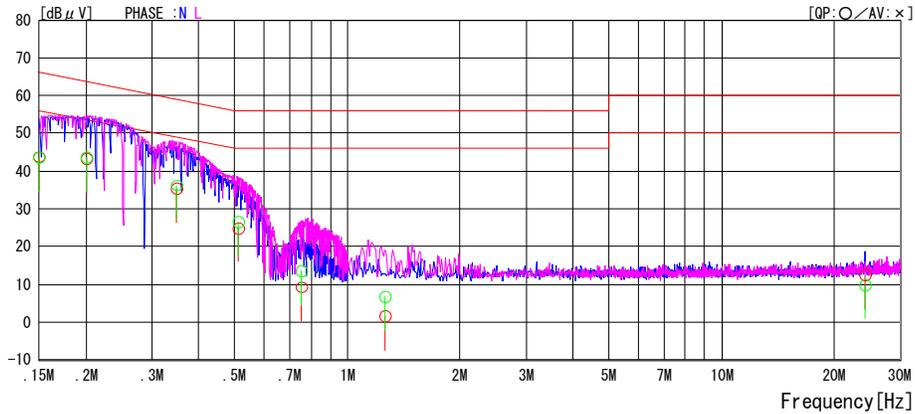
DATA OF CONDUCTED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber
 Date : 2004/01/20 01:07:50

Applicant : SHARP Corporation
 Kind of EUT : Cordless Handset
 Model No. : UX-CD600K
 Sample No. : 5
 Report No. : 24EE0151-HO
 Power : AC120V / 60Hz
 Temp°C/Humi% : 25 / 29
 Operator : Makoto Kosaka

Mode / Remarks : Charging

LIMIT : FCC15C § 15.207 (QP)
 FCC15C § 15.207 (AV)



NO	FREQ [MHz]	READING		C. F [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dB μV]	AV [dB μV]		QP [dB μV]	AV [dB μV]	QP [dB μV]	AV [dB μV]	QP [dB]	AV [dB]	
1	0.1500	43.7	---	0.1	43.8	---	66.0	---	22.2	---	N
2	0.2000	43.2	---	0.1	43.3	---	63.6	---	20.3	---	N
3	0.3500	35.3	---	0.1	35.4	---	59.0	---	23.6	---	N
4	0.5120	24.8	---	0.1	24.9	---	56.0	---	31.1	---	N
5	0.7500	9.1	---	0.2	9.3	---	56.0	---	46.7	---	N
6	1.2560	1.2	---	0.3	1.5	---	56.0	---	54.5	---	N
7	24.1930	10.6	---	1.8	12.4	---	60.0	---	47.6	---	N
8	0.1500	43.5	---	0.1	43.6	---	66.0	---	22.4	---	L
9	0.2000	43.5	---	0.1	43.6	---	63.6	---	20.0	---	L
10	0.3500	36.2	---	0.1	36.3	---	59.0	---	22.7	---	L
11	0.5120	26.5	---	0.1	26.6	---	56.0	---	29.4	---	L
12	0.7500	13.3	---	0.2	13.5	---	56.0	---	42.5	---	L
13	1.2560	6.4	---	0.3	6.7	---	56.0	---	49.3	---	L
14	24.1930	8.1	---	1.8	9.9	---	60.0	---	50.1	---	L

CHART:WITHOUT FACTOR, Peak hold data. Data is uncorrected. / Used LISN: MLS-07(EUT)/MLS-03(Other)
 Except for the above table : adequate margin data below the limits.

**Conducted Emission (Cordless Handset)
Intercom**

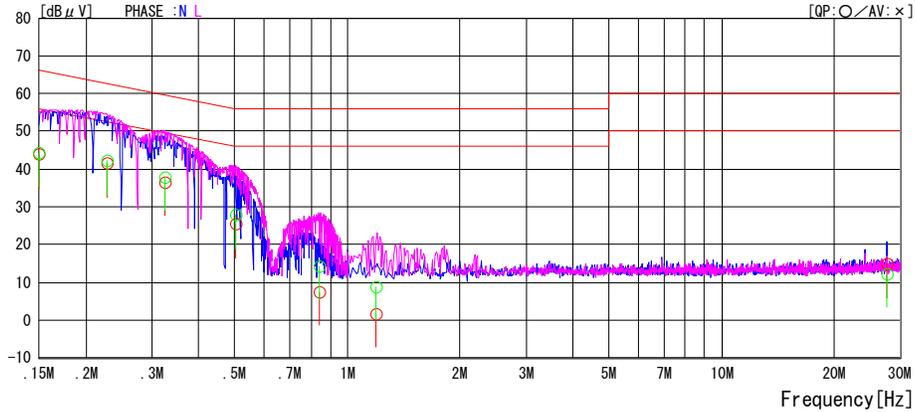
DATA OF CONDUCTED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2004/01/20 00:57:51

Applicant : SHARP Corporation
Kind of EUT : Cordless Handset
Model No. : UX-CD600K
Sample No. : 5
Report No. : 24EE0151-HO
Power : AC120V / 60Hz
Temp°C/Humi% : 25 / 29
Operator : Makoto Kosaka

Mode / Remarks : Intercom(Calling up Cordless Handset from Facsimile Equipment)

LIMIT : FCC15C § 15.207 (QP)
FCC15C § 15.207 (AV)



NO	FREQ [MHz]	READING		C. F	RESULT		LIMIT		MARGIN		PHASE
		QP [dB μV]	AV [dB μV]		QP [dB μV]	AV [dB μV]	QP [dB μV]	AV [dB μV]	QP [dB]	AV [dB]	
1	0.1500	43.9	---	0.1	44.0	---	66.0	---	22.0	---	N
2	0.2270	41.5	---	0.1	41.6	---	62.6	---	21.0	---	N
3	0.3240	36.4	---	0.1	36.5	---	59.6	---	23.1	---	N
4	0.5030	25.3	---	0.1	25.4	---	56.0	---	30.6	---	N
5	0.8440	7.3	---	0.2	7.5	---	56.0	---	48.5	---	N
6	1.1913	1.5	---	0.2	1.7	---	56.0	---	54.3	---	N
7	27.6489	12.8	---	2.0	14.8	---	60.0	---	45.2	---	N
8	0.1500	44.2	---	0.1	44.3	---	66.0	---	21.7	---	L
9	0.2270	42.1	---	0.1	42.2	---	62.6	---	20.4	---	L
10	0.3240	37.8	---	0.1	37.9	---	59.6	---	21.7	---	L
11	0.5030	27.7	---	0.1	27.8	---	56.0	---	28.2	---	L
12	0.8440	14.1	---	0.2	14.3	---	56.0	---	41.7	---	L
13	1.1913	8.7	---	0.2	8.9	---	56.0	---	47.1	---	L
14	27.6489	10.3	---	2.0	12.3	---	60.0	---	47.7	---	L

CHART:WITHOUT FACTOR, Peak hold data.Data is uncorrected. / Used LISN: MLS-07(EUT)/MLS-03(Other)
Except for the above table : adequate margin data below the limits.

Carrier Frequency Separation

UL Apex Co., Ltd.
Head Office EMC Lab. No.3 Measurement Room

COMPANY : Sharp Corporation REGULATION : Fcc Part15 Subpart C 15.247(a)(1)
EQUIPMENT : Facsimile Equipment TEST DISTANCE : -
MODEL : UX-CD600 DATE : 01/07/2004
SAMPLE No. : 1 TEMPERATURE : 21deg.C
POWER : AC120V/60Hz HUMIDITY : 38%
MODE : Tx(Hopping on) Engineer : Makoto Kosaka

(S/A :span 30MHz, RBW 300kHz,VBW 300kHz, sweep time AUTO)

CH	FREQ [MHz]	Channel separation [MHz]	Limit
Low	2405.376	5.19	>20dB Bandwidth and 25[kHz]
Mid	2439.936	3.45 and 5.19	>20dB Bandwidth and 25[kHz]
High	2474.496	3.450	>20dB Bandwidth and 25[kHz]

UL Apex Co., Ltd.

Head Office EMC Lab.

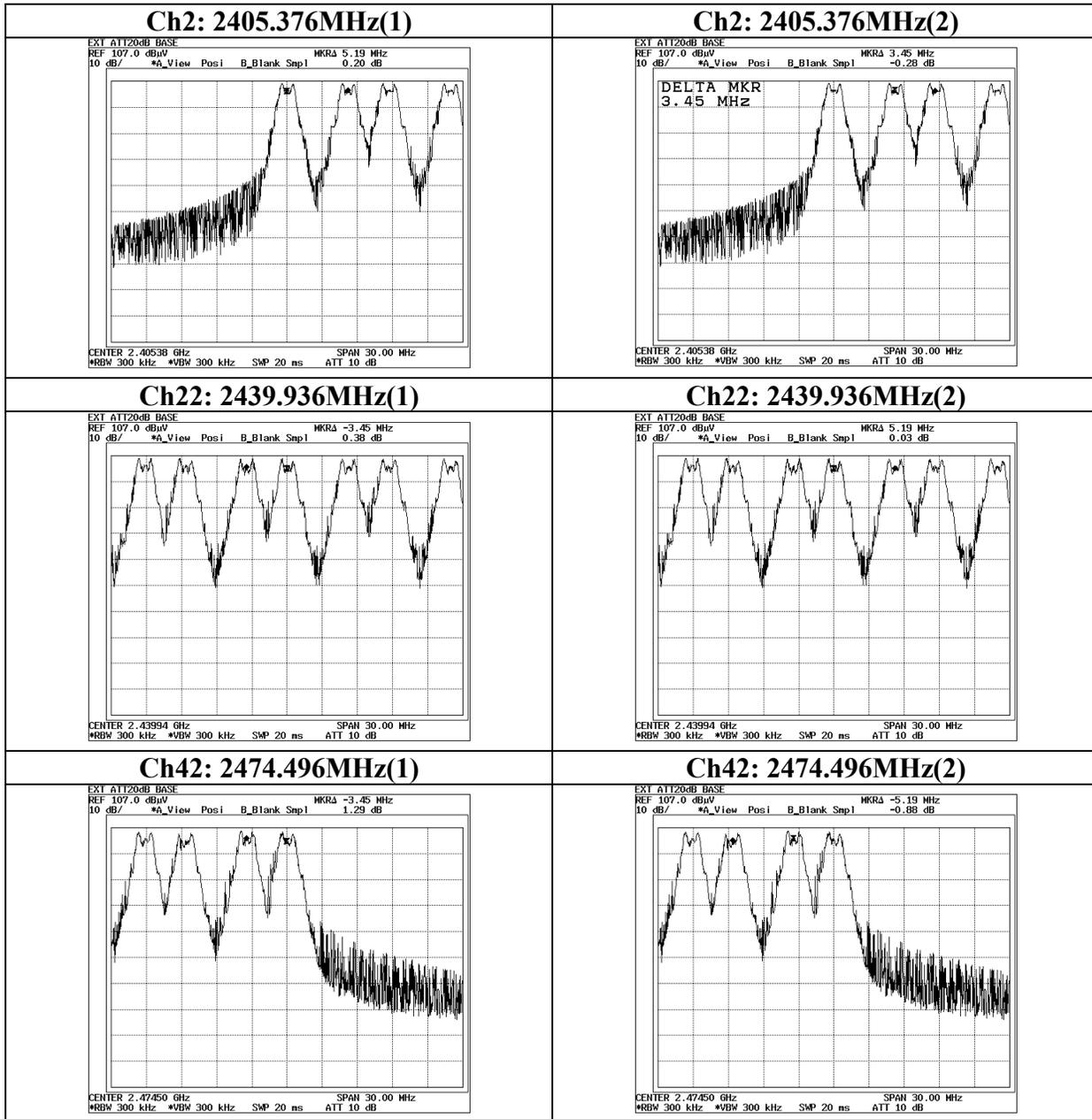
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone : +81 596 24 8116

Facsimile : +81 596 24 8124

MF060b(10.04.03)

Carrier Frequency Separation (Facsimile Equipment)



Carrier Frequency Separation

UL Apex Co., Ltd.
Head Office EMC Lab. No.3 Measurement Room

COMPANY	: Sharp Corporation	REGULATION	: Fcc Part15 Subpart C 15.247(a)(1)
EQUIPMENT	: Cordless Handset	TEST DISTANCE	: -
MODEL	: UX-CD600K	DATE	: 01/07/2004
SAMPLE No.	: 28	TEMPERATURE	: 21deg.C
POWER	: DC 3.6V	HUMIDITY	: 38%
MODE	: Tx(Hopping on)	Engineer	: Makoto Kosaka

(S/A :span 30MHz, RBW 300kHz, VBW 300kHz, sweep time AUTO)

CH	FREQ [MHz]	Channel separation [MHz]	Limit
Low	2405.376	5.19	>20dB Bandwidth and 25[kHz]
Mid	2439.936	3.45 and 5.19	>20dB Bandwidth and 25[kHz]
High	2474.496	3.450	>20dB Bandwidth and 25[kHz]

UL Apex Co., Ltd.

Head Office EMC Lab.

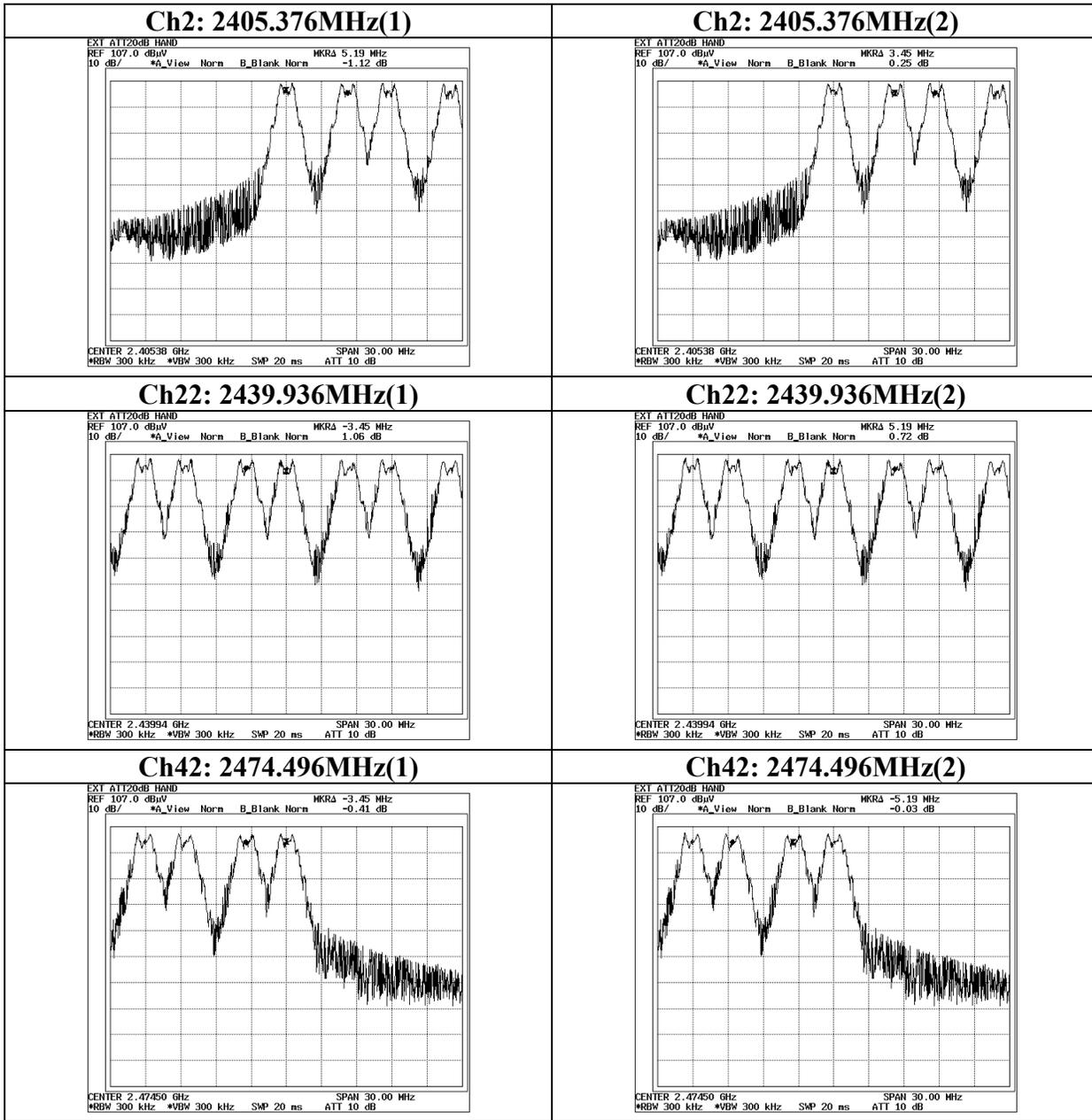
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone : +81 596 24 8116

Facsimile : +81 596 24 8124

MF060b(10.04.03)

Carrier Frequency Separation (Cordless Handset)



20dB Bandwidth

UL Apex Co., Ltd.
Head Office EMC Lab. No.3 Measurement Room

COMPANY : Sharp Corporation
EQUIPMENT : Facsimile Equipment
MODEL : UX-CD600
SAMPLE No. : 1
POWER : AC120V/60Hz
MODE : Tx(Hopping on)

REGULATION : Fcc Part15 Subpart C 15.247(a)(1)
TEST DISTANC: -
DATE : 01/07/2004
TEMPERATUR : 21deg.C
HUMIDITY : 38%
Engineer : Makoto Kosaka

PK DETECT(S/A: span 3MHz, RBW 30kHz,VBW 30kHz, sweep time AUTO)

CH	FREQ	20dB Bandwidth	Limit
	[MHz]	[MHz]	[MHz]
Low	2405.376	1.272	-
Mid	2439.936	1.272	-
High	2474.496	1.275	-

UL Apex Co., Ltd.

Head Office EMC Lab.

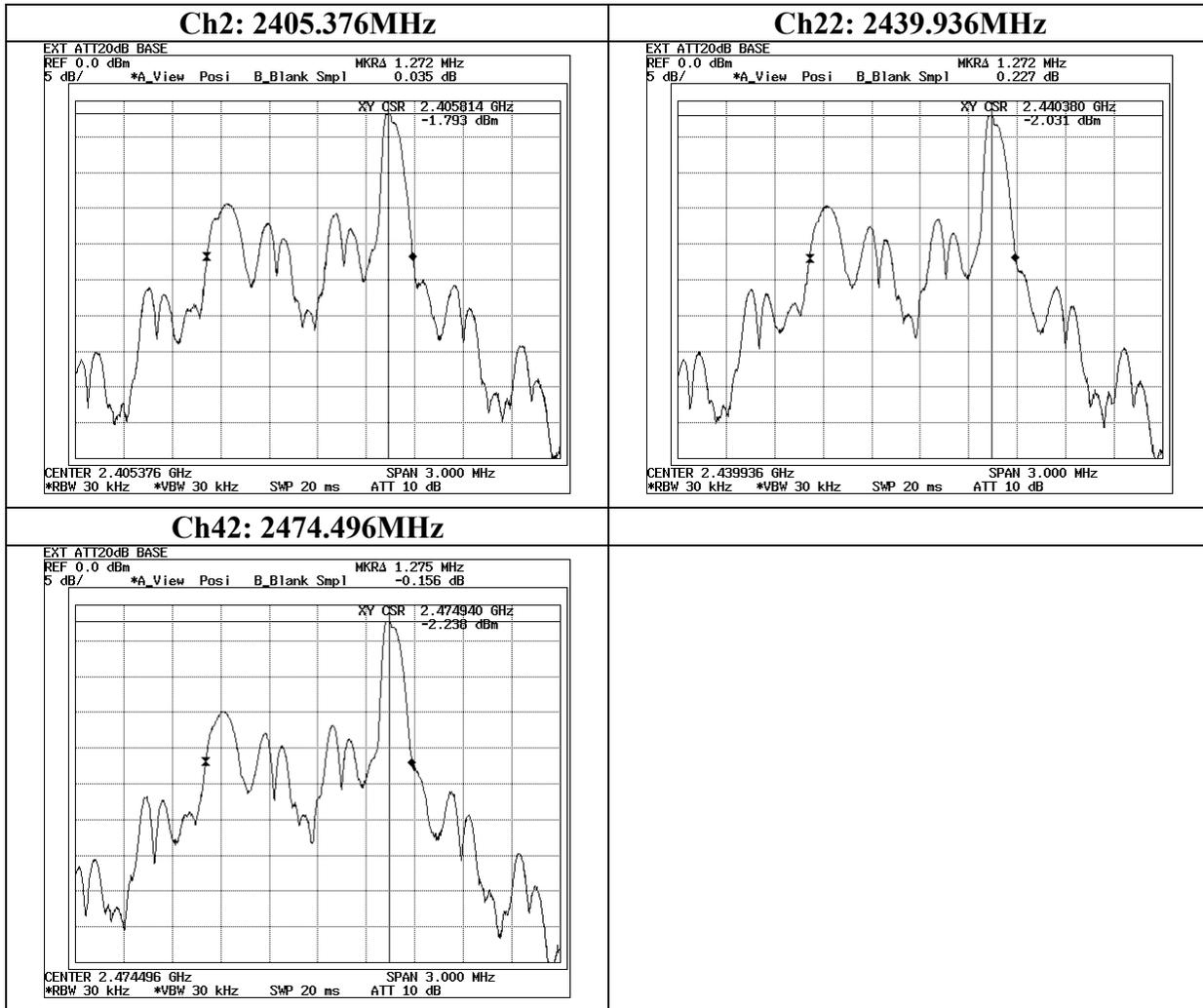
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone : +81 596 24 8116

Facsimile : +81 596 24 8124

MF060b(10.04.03)

20dB Bandwidth (Facsimile Equipment)



20dB Bandwidth

UL Apex Co., Ltd.
Head Office EMC Lab. No.3 Measurement Room

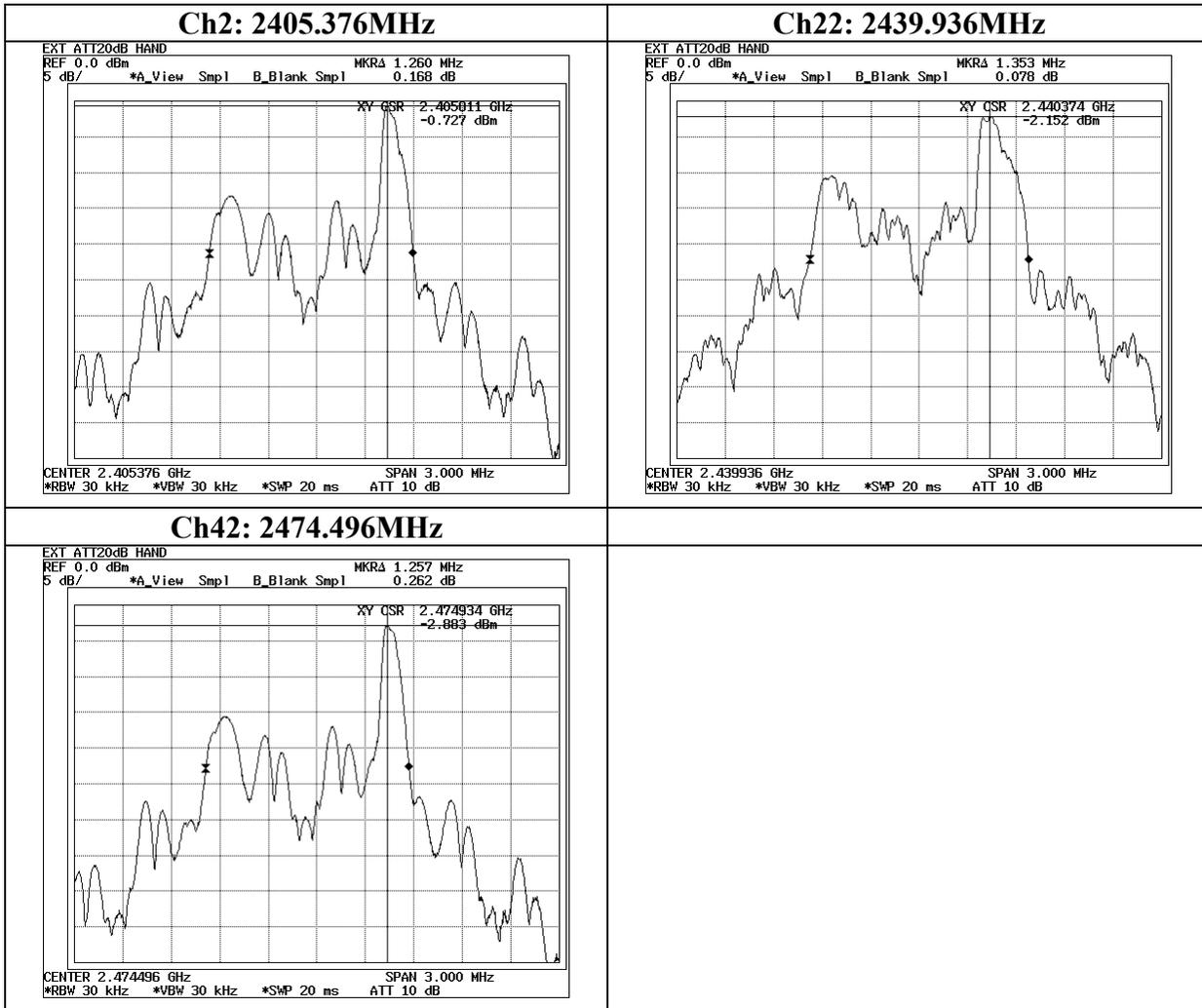
COMPANY : Sharp Corporation
EQUIPMENT : Cordless Handset
MODEL : UX-CD600K
SAMPLE No. : 28
POWER : DC 3.6V
MODE : Tx(Hopping on)

REGULATION : Fcc Part15 Subpart C 15.247(a)(1)
TEST DISTANCE : -
DATE : 01/07/2004
TEMPERATURE : 21deg.C
HUMIDITY : 38%
Engineer : Makoto Kosaka

(S/A: span 3MHz, RBW 30kHz, VBW 30kHz, sweep time AUTO)

CH	FREQ	20dB Bandwidth	Limit
	[MHz]	[MHz]	[MHz]
Low	2405.376	1.260	-
Mid	2439.936	1.353	-
High	2474.496	1.275	-

20dB Bandwidth (Cordless Handset)



Number of Hopping Frequency

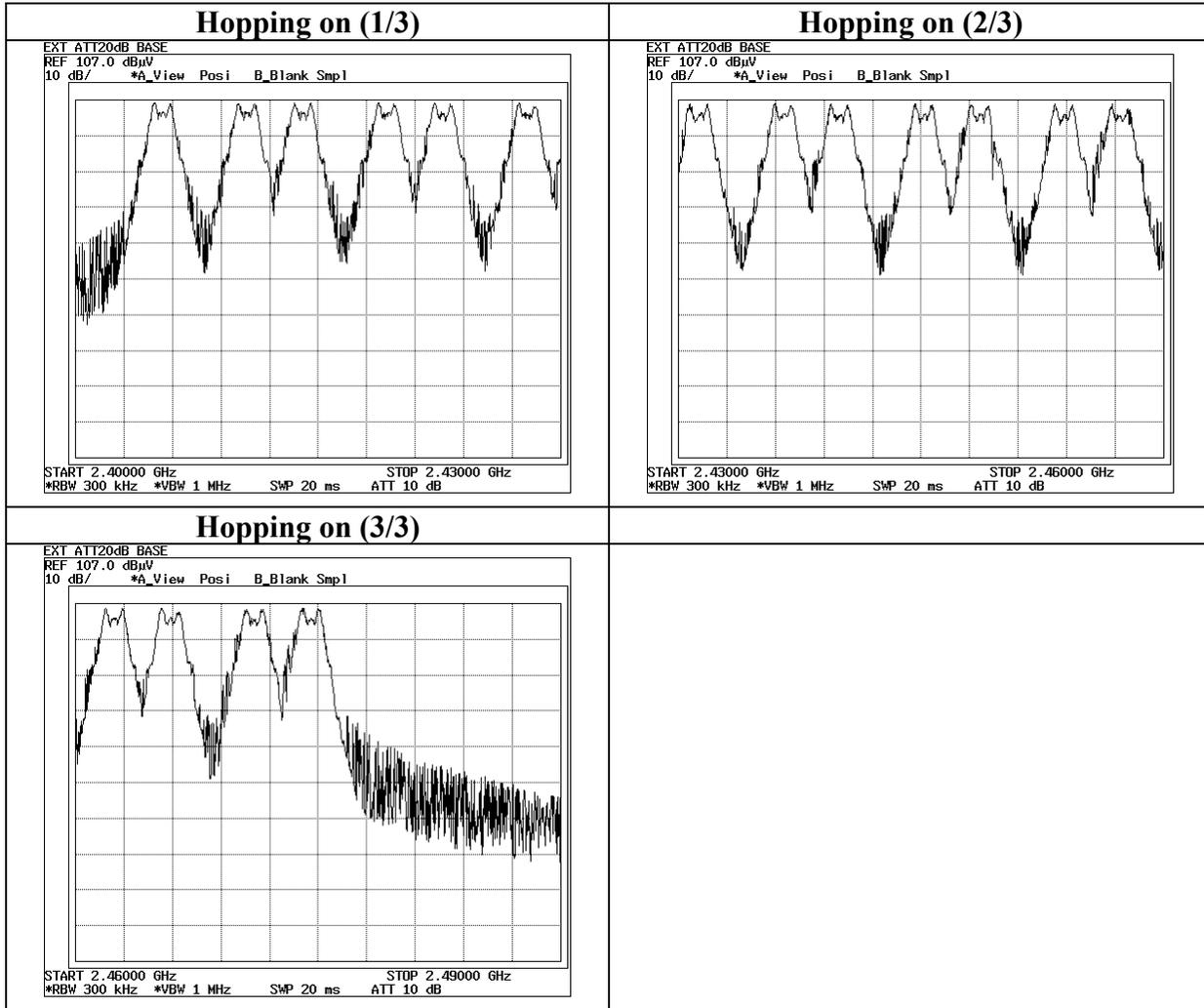
UL Apex Co., Ltd.
Head Office EMC Lab. No.3 Measurement Room

COMPANY : Sharp Corporation REGULATION : Fcc Part15 Subpart C 15.247(a)(1)(iii)
EQUIPMENT : Facsimile Equipment TEST DISTANCE : -
MODEL : UX-CD600 DATE : 01/07/2004
SAMPLE No. : 1 TEMPERATURE : 21deg.C
POWER : AC120V/60Hz HUMIDITY : 38%
MODE : Tx (Hopping on) Engineer : Makoto Kosaka

(S/A : RBW 300kHz , VBW 1MHz, sweep time AUTO)

Mode	Number of channel	Limit
	[time]	[time]
Tx(Hoppng on)	17	≥ 15

Number of Hopping Frequency (Facsimile Equipment)



Number of Hopping Frequency

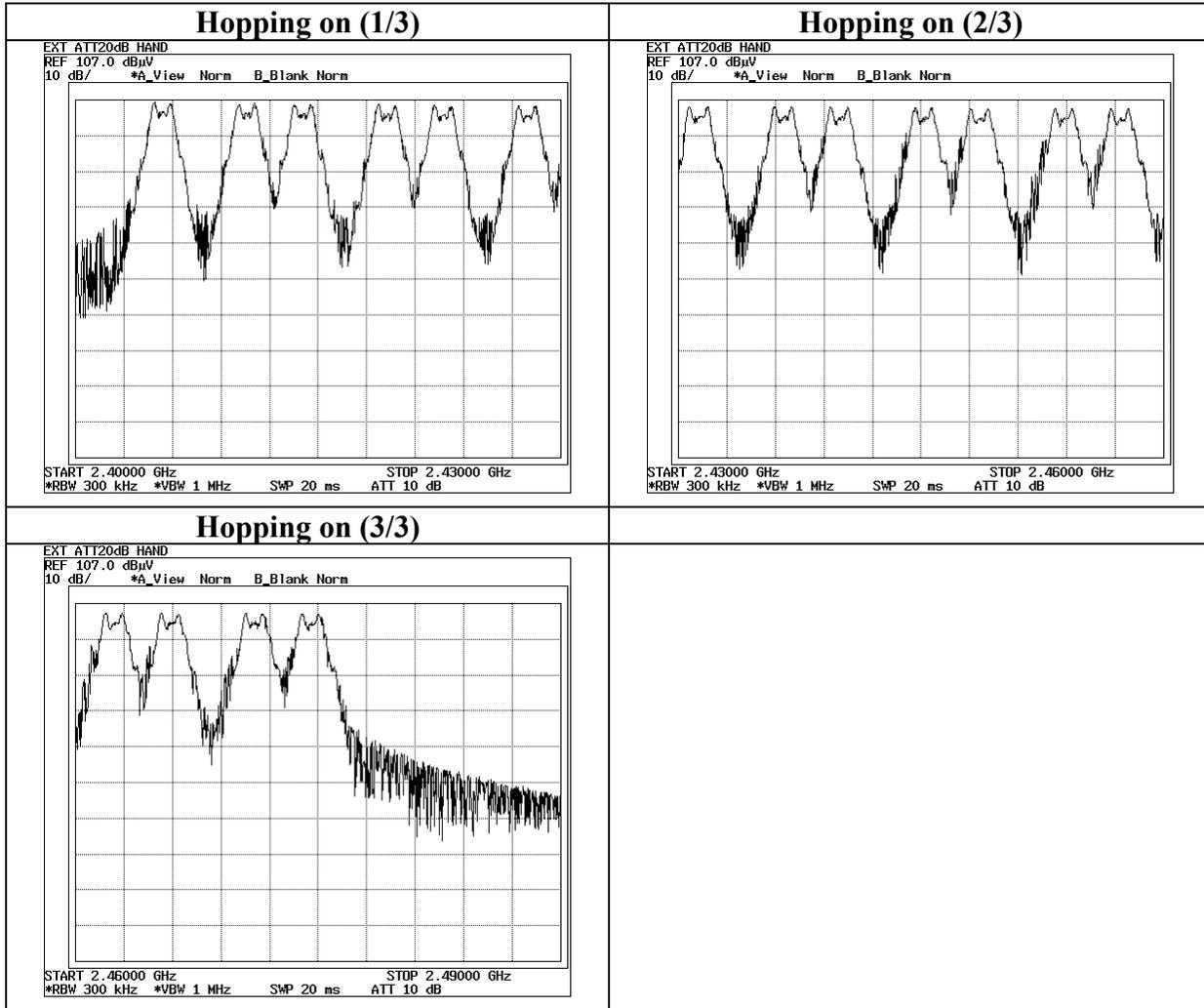
UL Apex Co., Ltd.
Head Office EMC Lab. No.3 Measurement Room

COMPANY	: Sharp Corporation	REGULATION	: Fcc Part15 Subpart C 15.247(a)(1)(iii)
EQUIPMENT	: Cordless Handset	TEST DISTANCE	: -
MODEL	: UX-CD600K	DATE	: 01/07/2004
SAMPLE No.	: 28	TEMPERATURE	: 21deg.C
POWER	: DC 3.6V	HUMIDITY	: 38%
MODE	: Tx (Hopping on)	Engineer	: Makoto Kosaka

(S/A : RBW 300kHz ,VBW 1MHz, sweep time AUTO)

Mode	Number of channel	Limit
	[time]	[time]
Tx(Hoppng on)	17	≥ 15

Number of Hopping Frequency (Cordless Handset)



Dwell time

UL Apex Co., Ltd.
Head Office EMC Lab. No.3 Measurement Room

COMPANY : Sharp Corporation REGULATION : Fcc Part15 Subpart C 15.247(a)(1)(iii)
EQUIPMENT : Facsimile Equipment TEST DISTANCE : -
MODEL : UX-CD600 DATE : 01/07/2004
S/ N : 1 TEMPERATURE : 21deg.C
POWER : AC120V/60Hz HUMIDITY : 38%
MODE : Ch22 Tx (Hopping on) Engineer : Makoto Kosaka

times	Number of Hoppings	Length of transmission time [msec]	Dwell time [msec]	Result [msec]	Limit [msec]
1	27	0.452	27 * 0.452	12.204	400
2	29		29 * 0.452	13.108	400
3	27		27 * 0.452	12.204	400
4	29		29 * 0.452	13.108	400
5	28		28 * 0.452	12.656	400
Average	28.0		28 * 0.452	12.656	400

UL Apex Co., Ltd.

Head Office EMC Lab.

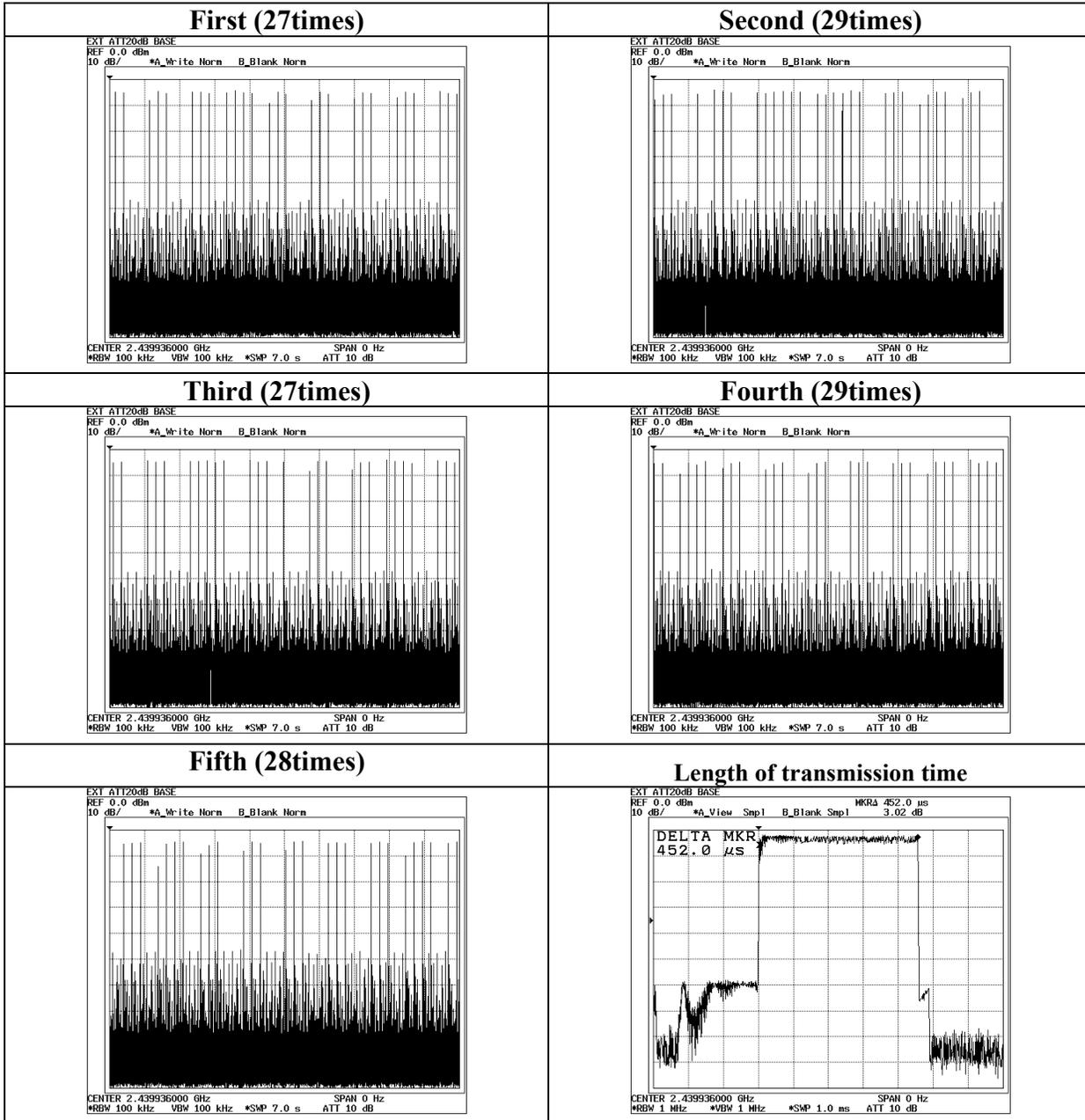
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone : +81 596 24 8116

Facsimile : +81 596 24 8124

MF060b(10.04.03)

Dwell time (Facsimile Equipment)



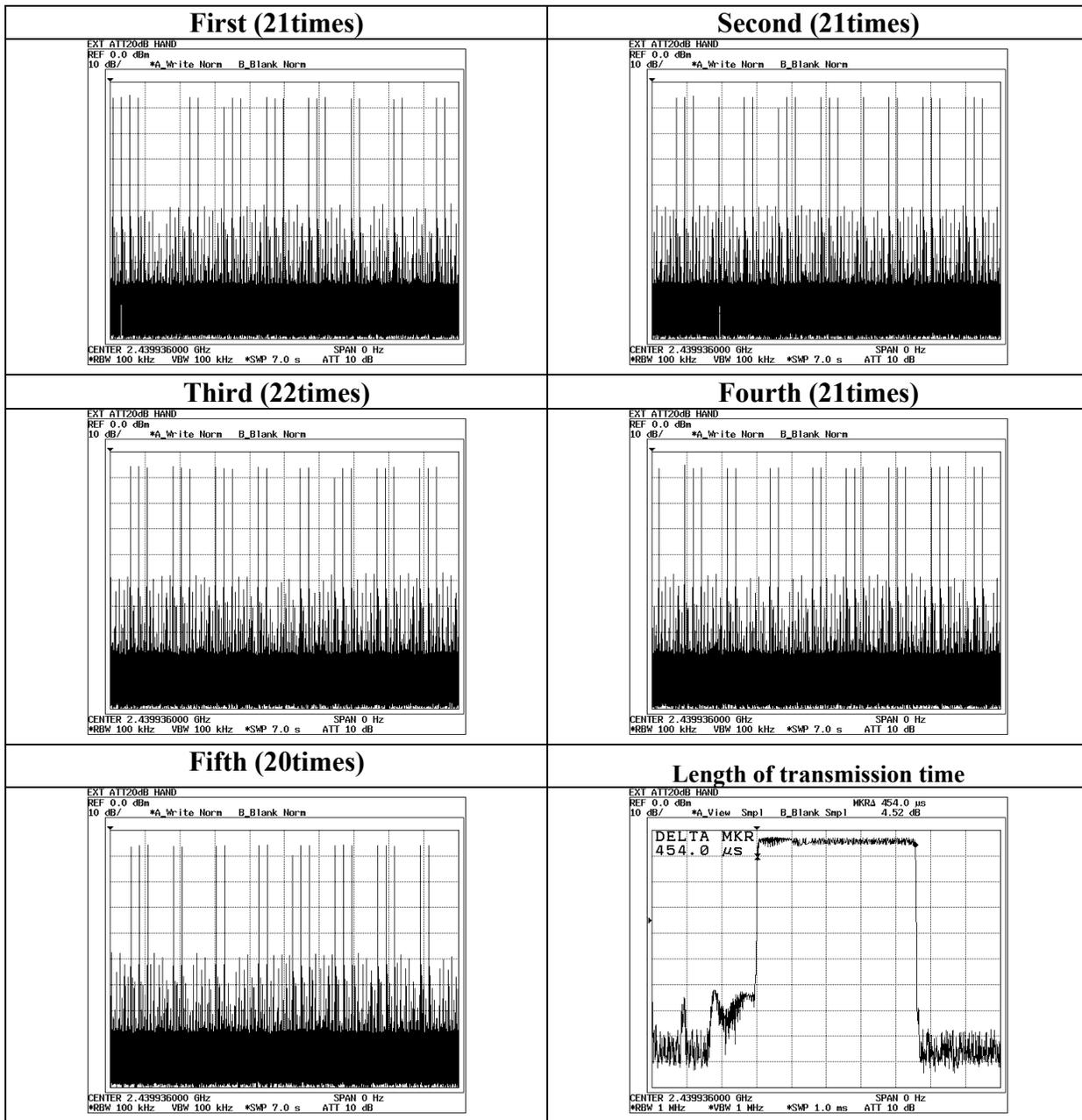
Dwell time

UL Apex Co., Ltd.
Head Office EMC Lab. No.3 Measurement Room

COMPANY : Sharp Corporation REGULATION : Fcc Part15 Subpart C 15.247(a)(1)(iii)
EQUIPMENT : Cordless Handset TEST DISTANCE : -
MODEL : UX-CD600K DATE : 01/07/2004
S/ N : 28 TEMPERATURE : 21deg.C
POWER : DC 3.6V HUMIDITY : 38%
MODE : Ch22 Tx (Hopping on) Engineer : Makoto Kosaka

times	Number of Hoppings	Length of transmission time [msec]	Dwell time [msec]	Result [msec]	Limit [msec]
1	21	0.454	21 * 0.454	9.534	400
2	21		21 * 0.454	9.534	400
3	22		22 * 0.454	9.988	400
4	21		21 * 0.454	9.534	400
5	20		20 * 0.454	9.080	400
Average	21.0		21 * 0.454	9.534	400

Dwell time (Cordless Handset)



Maximum Peak Output Power

UL Apex Co., Ltd.
Head Office EMC Lab. No.3 Measurement Room

COMPANY	: Sharp Corporation	REGULATION	: Fcc Part15 Subpart C 15.247(b)(1)
EQUIPMENT	: Facsimile Equipment	TEST DISTANCE	: -
MODEL	: UX-CD600	DATE	: 01/07/2004
SAMPLE No.	: 1	TEMPERATURE	: 21deg.C
POWER	: AC120V/60Hz	HUMIDITY	: 38%
MODE	: Tx (Hopping off)	Engineer	: Makoto Kosaka

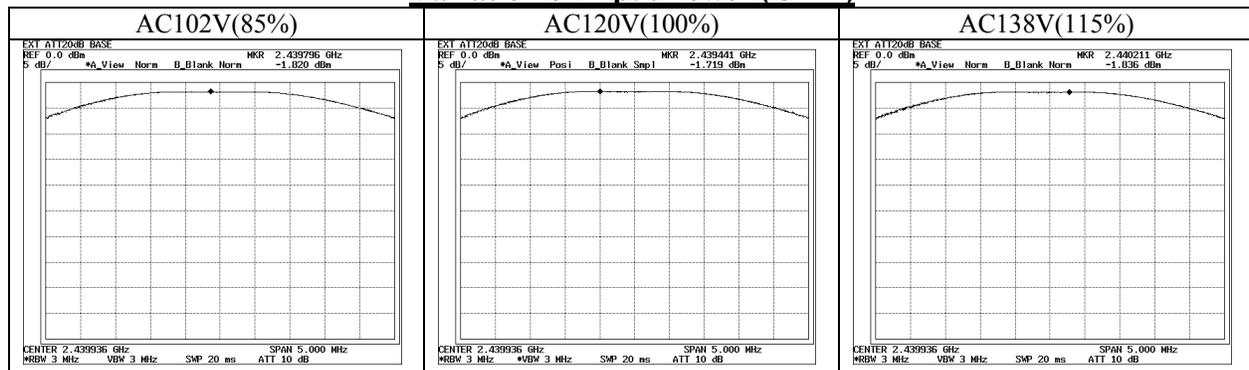
(S/A: Span 5MHz, RBW 3MHz, VBW 3MHz, sweep time AUTO)

CH	FREQ [MHz]	S/A Reading [dBm]	Cable Loss [dB]	Attn [dB]	Result [dBm]	Limit [125mW] [dBm]
Low	2405.376	-1.41	0.22	20.00	18.8	21.0
Mid	2439.936	-1.72	0.22	20.00	18.5	21.0
High	2474.496	-1.92	0.22	20.00	18.3	21.0

Sample Calculation:

Result = S/A Reading + Attenuator + Cable Loss

Variation of Input Power (Ch22)



Maximum Peak Output Power

UL Apex Co., Ltd.
Head Office EMC Lab. No.3 Measurement Room

COMPANY	: Sharp Corporation	REGULATION	: Fcc Part15 Subpart C 15.247(b)(1)
EQUIPMENT	: Cordless Handset	TEST DISTANCE	: -
MODEL	: UX-CD600K	DATE	: 01/07/2004
SAMPLE No.	: 26	TEMPERATURE	: 21deg.C
POWER	: DC 3.6V	HUMIDITY	: 38%
MODE	: Tx (Hopping off)	Engineer	: Makoto Kosaka

(S/A: Span 5MHz, RBW 3MHz, VBW 3MHz, sweep time AUTO)

CH	FREQ [MHz]	S/A Reading [dBm]	Cable Loss [dB]	Attn [dB]	Result [dBm]	Limit [125mW] [dBm]
Low	2405.376	-0.7	0.1	20.0	19.4	21.0
Mid	2439.936	-1.2	0.1	20.0	18.9	21.0
High	2474.496	-1.8	0.1	20.0	18.3	21.0

Sample Calculation:

Result = S/A Reading + Attenuator + Cable Loss

UL Apex Co., Ltd.

Head Office EMC Lab.

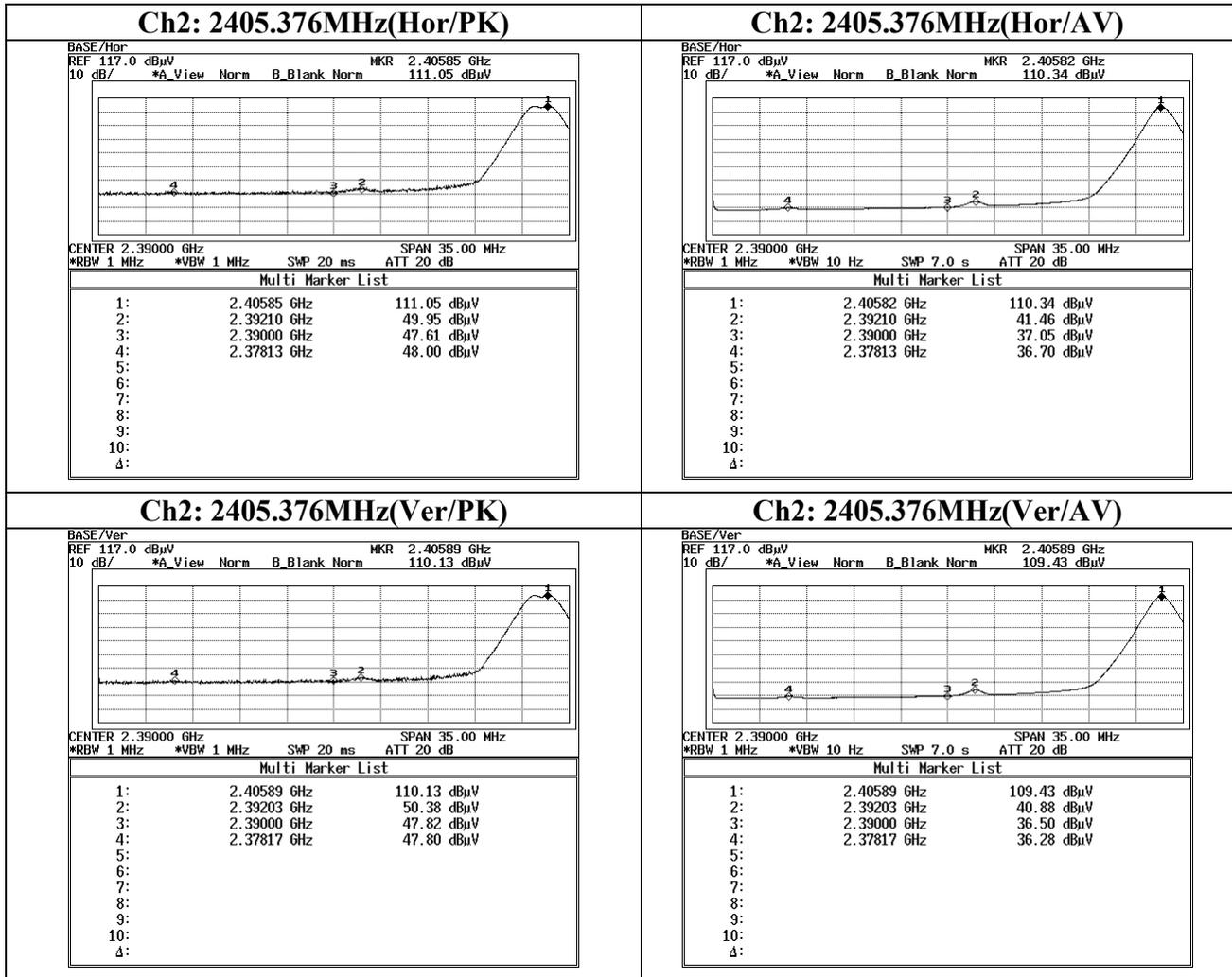
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone : +81 596 24 8116

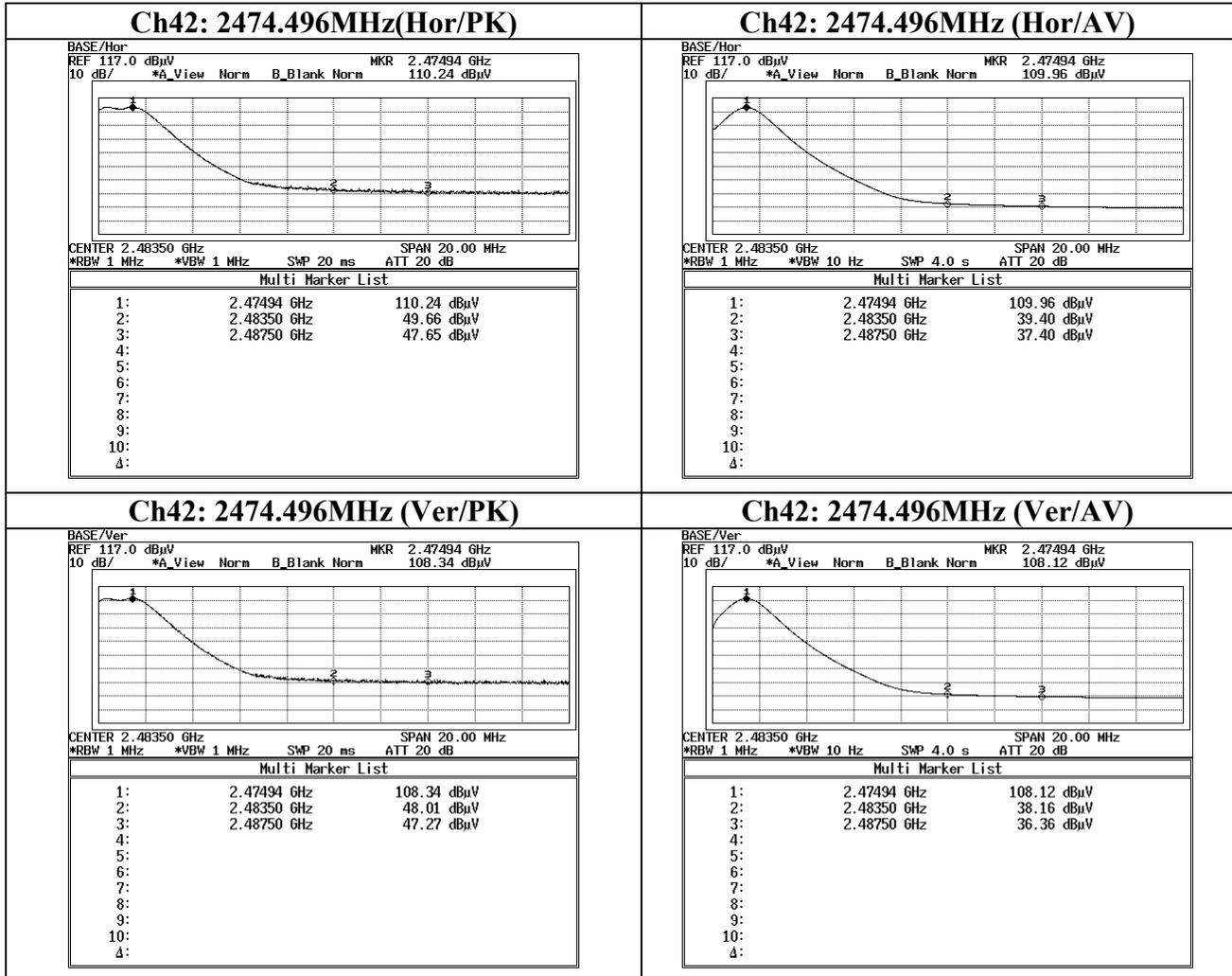
Facsimile : +81 596 24 8124

MF060b(10.04.03)

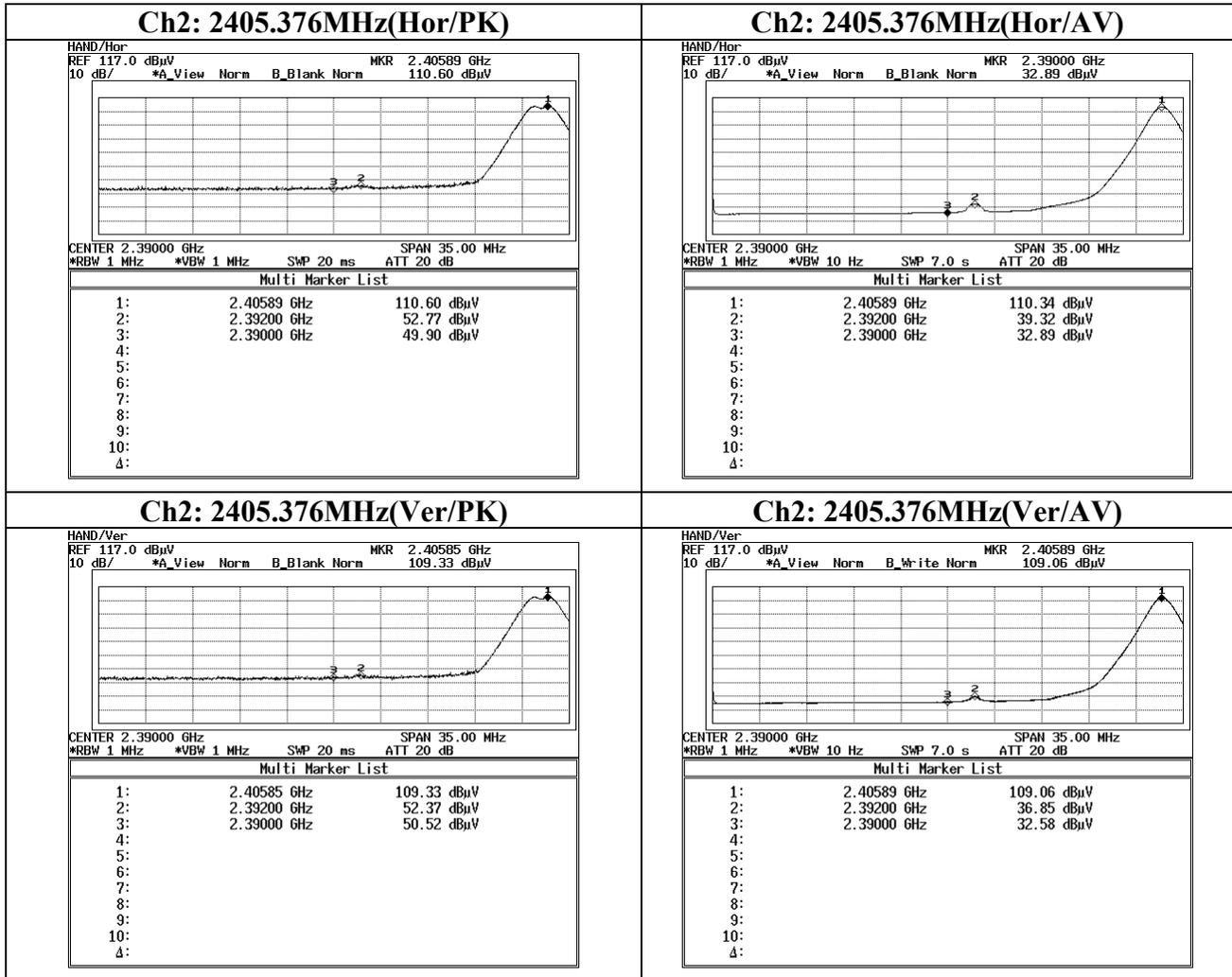
Band Edge compliance (Facsimile Equipment)



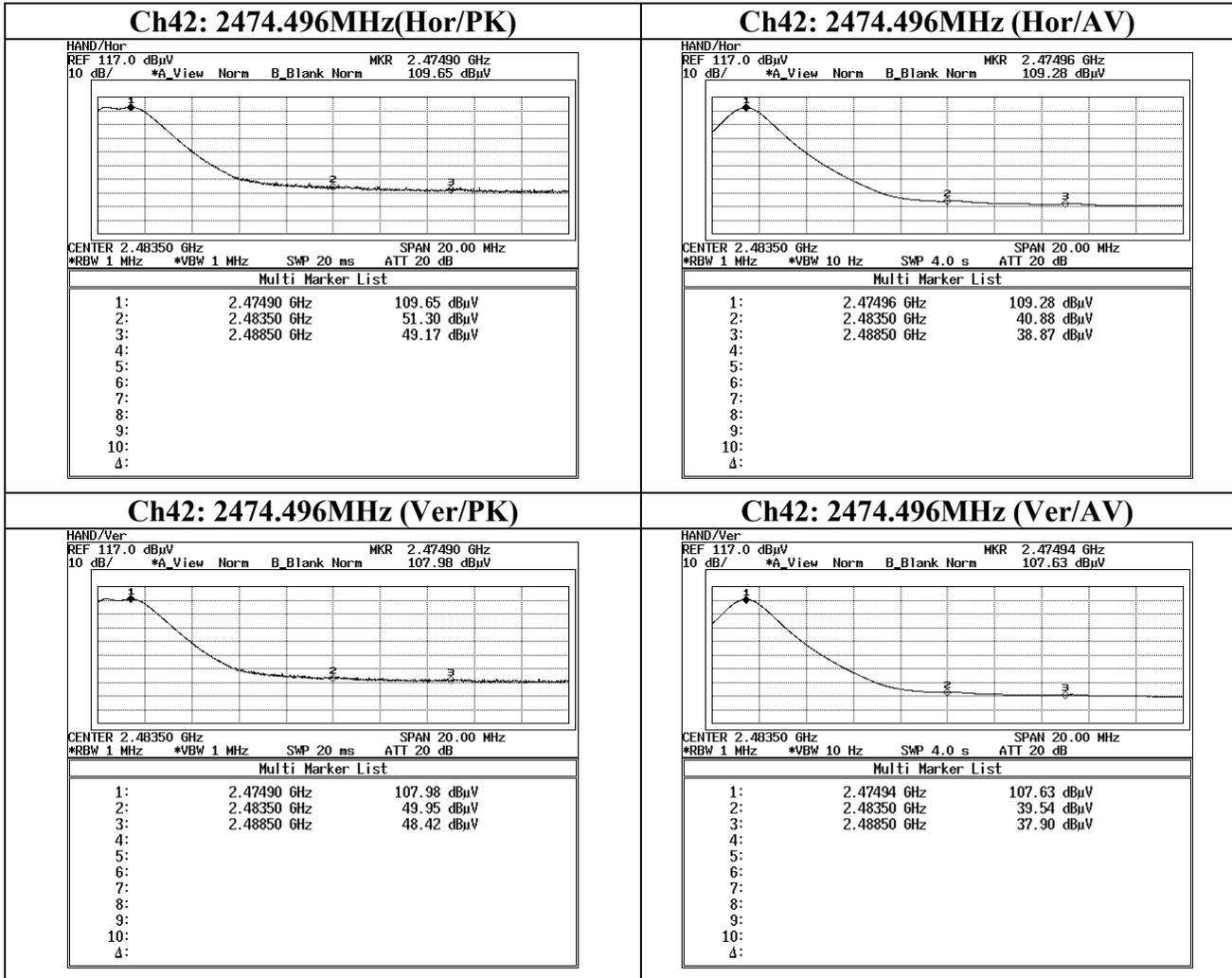
Band Edge compliance (Facsimile Equipment)



Band Edge compliance (Cordless Handset)



Band Edge compliance (Cordless Handset)



Spurious Emission(Radiated) (Facsimile Equipment)

DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2004/01/14 21:12:20

Applicant : SHARP Corporation
Kind of EUT : Facsimile Equipmet
Model No. : UX-CD600
Sample No. : 2

Report No. : 24EE0151-HO
Power : AC 120V / 60Hz
Temp°C/Humi% : 26 / 28%
Operator : Makoto Kosaka

Mode / Remarks : Tx(ch 2: 2405.376MHz)/EUT antenna angle 0deg(Hor)/90deg(Ver)

LIMIT : FCC15C §15.247(c) 3m

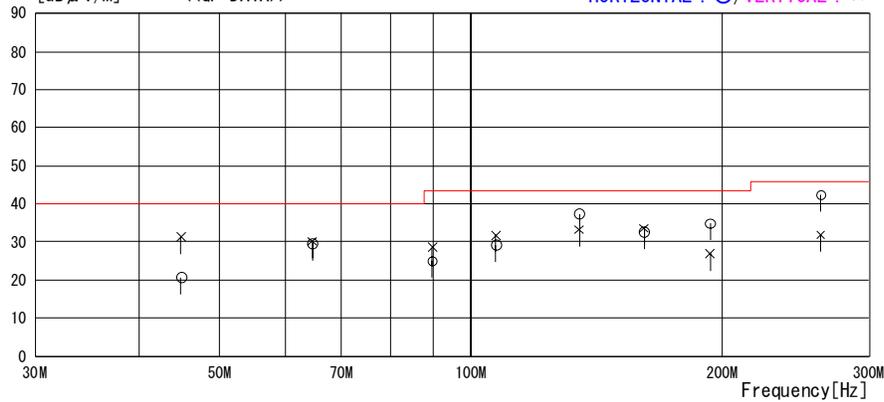
Except for the data below : adequate margin data below the limits.

×:Ver. (QP)

○:Hor. (QP)

[dB μV/m] <<QP DATA>>

HORIZONTAL : ○ / VERTICAL : ×



No.	FREQ [MHz]	READING QP [dB μV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dB μV/m]	LIMIT [dB μV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	44.928	24.7	12.9	6.8	23.7	20.7	40.0	19.3	325	255
2	64.512	39.0	7.4	7.0	23.7	29.7	40.0	10.3	343	69
3	89.856	33.6	7.7	7.1	23.3	25.1	43.5	18.4	300	72
4	107.136	34.0	11.1	7.4	23.2	29.3	43.5	14.2	284	222
5	134.783	39.2	14.1	7.5	23.3	37.5	43.5	6.0	206	227
6	161.280	33.5	14.8	7.7	23.2	32.8	43.5	10.7	273	0
7	193.536	34.1	16.3	7.9	23.3	35.0	43.5	8.5	172	0
8	262.656	39.8	17.4	8.2	23.0	42.4	46.0	3.6	126	340
----- Vertical -----										
9	44.929	35.3	12.9	6.8	23.7	31.3	40.0	8.7	100	0
10	64.512	39.5	7.4	7.0	23.7	30.2	40.0	9.8	206	168
11	89.856	37.1	7.7	7.1	23.3	28.6	43.5	14.9	240	236
12	107.136	36.5	11.1	7.4	23.2	31.8	43.5	11.7	100	215
13	134.783	34.9	14.1	7.5	23.3	33.2	43.5	10.3	100	265
14	161.280	34.3	14.8	7.7	23.2	33.6	43.5	9.9	100	228
15	193.536	26.1	16.3	7.9	23.3	27.0	43.5	16.5	100	107
16	262.656	29.3	17.4	8.2	23.0	31.9	46.0	14.1	100	230

CHART:WITHOUT FACTOR ANT TYPE : -30MHz LOOP, 30-300MHz BICONICAL, 300MHz-1000MHz LOGPERIODIC, 1000MHz- HORN
CALCULATION : READING + ANT FACTOR + LOSS(CABLE+ATTEN.) - AMP. GAIN Page:

DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2004/01/22 19:31:44

Applicant : SHARP Corporation
Kind of EUT : Facsimile Equipmet
Model No. : UX-CD600
Sample No. : 2
Report No. : 24EE0151-HO
Power : AC 120V / 60Hz
Temp°C/Humi% : 26 / 28%
Operator : Makoto Kosaka

Mode / Remarks : Tx(ch 2: 2405.376MHz)/EUT antenna angle 0deg(Hor)/90deg(Ver)

LIMIT : FCC15C § 15.247(c) 3m
*1 is applied to section 15.247(c).



No.	FREQ [MHz]	READING QP [dB μV]	C.F [dB]	RESULT [dB μV/m]	LIMIT [dB μV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]	COMMENT
----- Horizontal -----									
1	369.792	37.5	1.9	39.4	46.0	6.6	100	0	
2	425.088	35.2	3.7	38.9	46.0	7.1	100	328	
3	473.472	34.3	4.2	38.5	46.0	7.5	212	330	
4	801.934	43.0	8.4	51.4	46.0	-5.4	100	77	*1 Ch2 Fund=121.2dBuV/m(69.4dBc)
----- Vertical -----									
5	369.792	32.4	1.9	34.3	46.0	11.7	100	175	
6	425.089	37.2	3.7	40.9	46.0	5.1	100	189	
7	473.473	35.7	4.2	39.9	46.0	6.1	100	156	
8	801.937	38.3	8.4	46.7	46.0	-0.7	124	360	*1 Ch2 Fund=119.7dBuV/m(73.0dBc)

According to Section 15.247(c)(..., the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in that 100kHz bandwidth within the band that contains the highest level of the desired power,...), the margin -5.4dB and -0.7dB of the fundamental emission in ch2 is acceptable.

CHART: WITHOUT FACTOR ANT TYPE: -30MHz LOOP, 30-300MHz BICONICAL, 300MHz-1000MHz LOGPERIODIC, 1000MHz- HORN
CALCULATION: READING + ANT FACTOR + LOSS(CABLE+ATTEN.) - AMP. GAIN Page:

DATA OF RADIATED EMISSION TEST

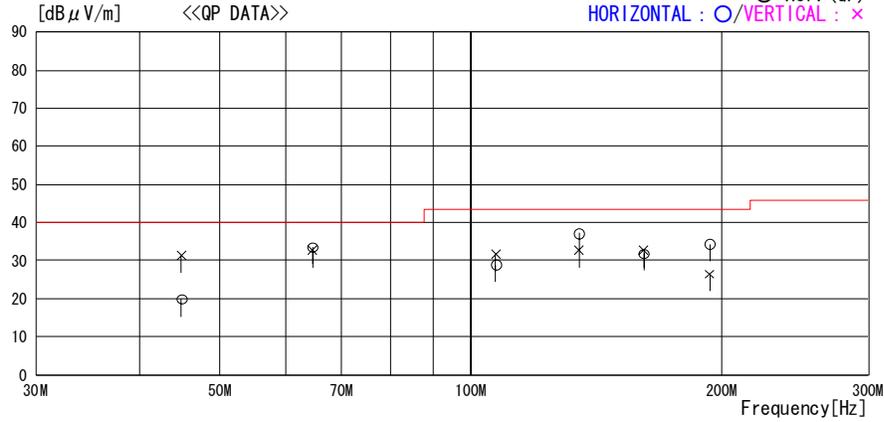
UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber
 Date : 2004/01/14 21:17:22

Applicant : SHARP Corporation
 Kind of EUT : Facsimile Equipmet
 Model No. : UX-CD600
 Sample No. : 2
 Report No. : 24EE0151-HO
 Power : AC 120V / 60Hz
 Temp°C/Humi% : 26 / 28%
 Operator : Makoto Kosaka

Mode / Remarks : Tx(ch 22: 2439.936MHz)/EUT antenna angle 0deg(Hor)/90deg(Ver)

LIMIT : FCC15C §15.247(c) 3m
 Except for the data below : adequate margin data below the limits.

× : Ver. (QP)
 ○ : Hor. (QP)



No.	FREQ [MHz]	READING QP [dB μV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dB μV/m]	LIMIT [dB μV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	44.928	23.9	12.9	6.8	23.7	19.9	40.0	20.1	295	106
2	64.512	42.9	7.4	7.0	23.7	33.6	40.0	6.4	400	249
3	107.136	33.6	11.1	7.4	23.2	28.9	43.5	14.6	269	218
4	134.783	38.9	14.1	7.5	23.3	37.2	43.5	6.3	172	224
5	161.280	32.6	14.8	7.7	23.2	31.9	43.5	11.6	266	0
6	193.536	33.4	16.3	7.9	23.3	34.3	43.5	9.2	166	0
----- Vertical -----										
7	44.928	35.3	12.9	6.8	23.7	31.3	40.0	8.7	100	0
8	64.512	42.0	7.4	7.0	23.7	32.7	40.0	7.3	222	193
9	107.136	36.4	11.1	7.4	23.2	31.7	43.5	11.8	100	185
10	134.783	34.5	14.1	7.5	23.3	32.8	43.5	10.7	100	262
11	161.280	33.5	14.8	7.7	23.2	32.8	43.5	10.7	100	244
12	193.536	25.6	16.3	7.9	23.3	26.5	43.5	17.0	100	104

CHART: WITHOUT FACTOR ANT TYPE : -30MHz LOOP, 30-300MHz BICONICAL, 300MHz-1000MHz LOGPERIODIC, 1000MHz- HORN
 CALCULATION : READING + ANT FACTOR + LOSS (CABLE+ATTEN.) - AMP. GAIN

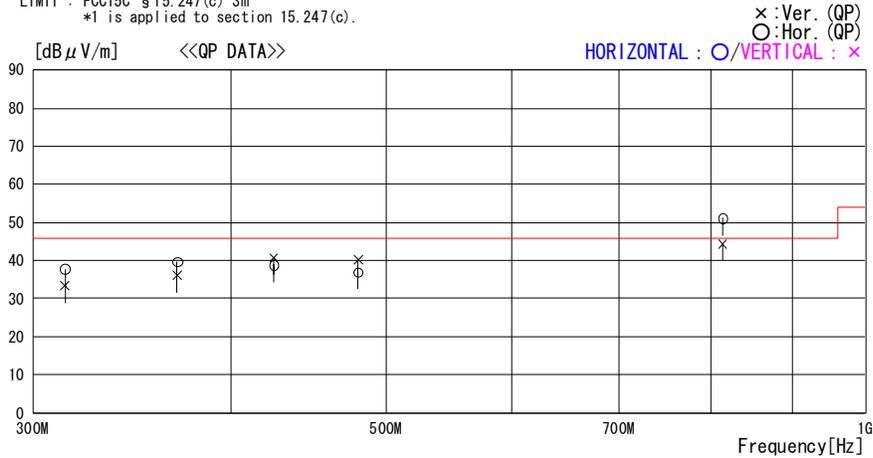
DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2004/01/22 19:44:39

Applicant : SHARP Corporation
Kind of EUT : Facsimile Equipmet
Model No. : UX-CD600
Sample No. : 2
Report No. : 24EE0151-HO
Power : AC 120V / 60Hz
Temp°C/Humi% : 26 / 28%
Operator : Makoto Kosaka

Mode / Remarks : Tx(ch 22: 2439.936MHz)/EUT antenna angle Odeg(Hor)/90deg(Ver)

LIMIT : FCC15C §15.247(c) 3m
*1 is applied to section 15.247(c).



No.	FREQ [MHz]	READING QP [dB μV]	C. F [dB]	RESULT [dB μV/m]	LIMIT [dB μV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]	COMMENT
----- Horizontal -----									
1	314.495	37.7	0.1	37.8	46.0	8.2	100	132	
2	369.792	37.7	1.9	39.6	46.0	6.4	100	0	
3	425.087	35.2	3.7	38.9	46.0	7.1	100	331	
4	480.384	32.8	4.2	37.0	46.0	9.0	100	330	
5	813.456	42.6	8.5	51.1	46.0	-5.1	100	84	*1 Ch22 Fund=121.3dBuV/m(70.3dBc)
----- Vertical -----									
6	314.495	33.4	0.1	33.5	46.0	12.5	100	114	
7	369.792	34.1	1.9	36.0	46.0	10.0	140	167	
8	425.088	37.0	3.7	40.7	46.0	5.3	217	304	
9	480.383	36.1	4.2	40.3	46.0	5.7	100	111	
10	813.456	35.9	8.5	44.4	46.0	1.6	123	290	

According to Section 15.247(c)(..., the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in that 100kHz bandwidth within the band that contains the highest level of the desired power,...), the margin -5.1dB of the fundamental emission in ch22 is acceptable.

CHART: WITHOUT FACTOR ANT TYPE : -30MHz LOOP, 30-300MHz BICONICAL, 300MHz-1000MHz LOGPERIODIC, 1000MHz- HORN
CALCULATION : READING + ANT FACTOR + LOSS (CABLE+ATTEN.) - AMP. GAIN Page:

DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2004/01/14 22:17:47

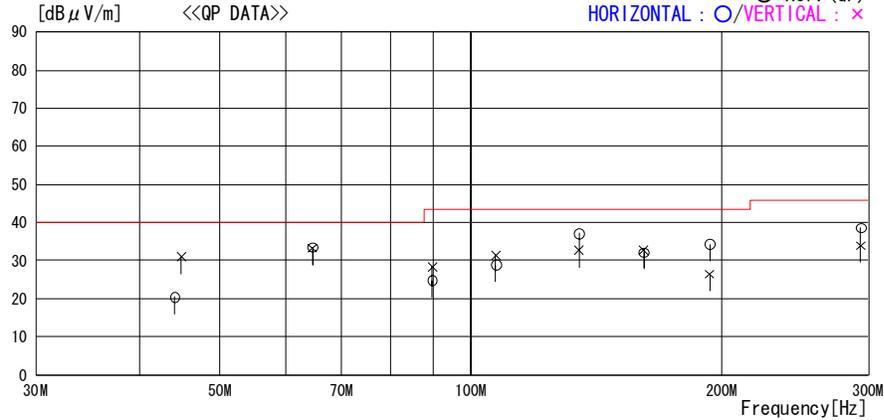
Applicant : SHARP Corporation
Kind of EUT : Facsimile Equipmet
Model No. : UX-CD600
Sample No. : 2
Report No. : 24EE0151-HO
Power : AC 120V / 60Hz
Temp°C/Humi% : 26 / 28%
Operator : Makoto Kosaka

Mode / Remarks : Tx(ch 42: 2474.496MHz)/EUT antenna angle 0deg(Hor)/90deg(Ver)

LIMIT : FCC15C §15.247(c) 3m

Except for the data below : adequate margin data below the limits.

× : Ver. (QP)
○ : Hor. (QP)



No.	FREQ [MHz]	READING QP [dB μV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dB μV/m]	LIMIT [dB μV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	44.040	24.2	13.2	6.8	23.7	20.5	40.0	19.5	224	259
2	64.512	42.8	7.4	7.0	23.7	33.5	40.0	6.5	400	74
3	89.856	33.3	7.7	7.1	23.3	24.8	43.5	18.7	312	257
4	107.136	33.6	11.1	7.4	23.2	28.9	43.5	14.6	275	221
5	134.783	38.9	14.1	7.5	23.3	37.2	43.5	6.3	168	215
6	161.280	32.9	14.8	7.7	23.2	32.2	43.5	11.3	275	0
7	193.536	33.4	16.3	7.9	23.3	34.3	43.5	9.2	171	0
8	293.760	34.2	19.4	8.3	23.2	38.7	46.0	7.3	120	0
----- Vertical -----										
9	44.928	35.0	12.9	6.8	23.7	31.0	40.0	9.0	100	0
10	64.512	42.5	7.4	7.0	23.7	33.2	40.0	6.8	211	176
11	89.856	36.8	7.7	7.1	23.3	28.3	43.5	15.2	100	166
12	107.136	36.2	11.1	7.4	23.2	31.5	43.5	12.0	100	190
13	134.783	34.5	14.1	7.5	23.3	32.8	43.5	10.7	100	251
14	161.280	33.5	14.8	7.7	23.2	32.8	43.5	10.7	100	245
15	193.536	25.6	16.3	7.9	23.3	26.5	43.5	17.0	100	113
16	293.760	29.4	19.4	8.3	23.2	33.9	46.0	12.1	100	285

CHART: WITHOUT FACTOR ANT TYPE : -30MHz LOOP, 30-300MHz BICONICAL, 300MHz-1000MHz LOGPERIODIC, 1000MHz- HORN
CALCULATION : READING + ANT FACTOR + LOSS (CABLE+ATTEN.) - AMP. GAIN Page:

DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2004/01/22 19:51:40

Applicant : SHARP Corporation
Kind of EUT : Facsimile Equipmet
Model No. : UX-CD600
Sample No. : 2
Report No. : 24EE0151-HO
Power : AC 120V / 60Hz
Temp°C/Humi% : 26 / 28%
Operator : Makoto Kosaka

Mode / Remarks : Tx(ch 42: 2474.496MHz)/EUT antenna angle 0deg(Hor)/90deg(Ver)

LIMIT : FCC15C §15.247(c) 3m
*1 is applied to section 15.247(c).



No.	FREQ [MHz]	READING QP [dB μV]	C.F [dB]	RESULT [dB μV/m]	LIMIT [dB μV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]	COMMENT
----- Horizontal -----									
1	314.496	37.3	0.1	37.4	46.0	8.6	100	131	
2	369.792	37.6	1.9	39.5	46.0	6.5	100	0	
3	425.088	35.2	3.7	38.9	46.0	7.1	100	336	
4	473.472	34.3	4.2	38.5	46.0	7.5	215	330	
5	824.975	39.7	8.6	48.3	46.0	-2.3	100	67	*1 Ch42 Fund=120.2dBuV/m(71.9dBc)
----- Vertical -----									
6	314.496	34.1	0.1	34.2	46.0	11.8	178	147	
7	369.792	34.0	1.9	35.9	46.0	10.1	137	169	
8	425.088	37.0	3.7	40.7	46.0	5.3	100	190	
9	473.472	35.7	4.2	39.9	46.0	6.1	100	108	
10	824.976	32.7	8.6	41.3	46.0	4.7	121	287	

According to Section 15.247(c)(..., the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in that 100kHz bandwidth within the band that contains the highest level of the desired power,...), the margin -2.3dB of the fundamental emission in ch42 is acceptable.

CHART: WITHOUT FACTOR ANT TYPE : -30MHz LOOP, 30-300MHz BICONICAL, 300MHz-1000MHz LOGPERIODIC, 1000MHz- HORN
CALCULATION : READING + ANT FACTOR + LOSS (CABLE+ATTEN.) - AMP. GAIN Page:

Spurious Emission(Radiated) (Cordless Handset)

DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2004/01/17 02:04:27

Applicant : SHARP Corporation
Kind of EUT : Cordless Handset
Model No. : UX-CD600K
Sample No. : 5
Report No. : 24EE0151-HO
Power : DC 3.6V
Temp°C/Humi% : 24 / 26%
Operator : Makoto Kosaka

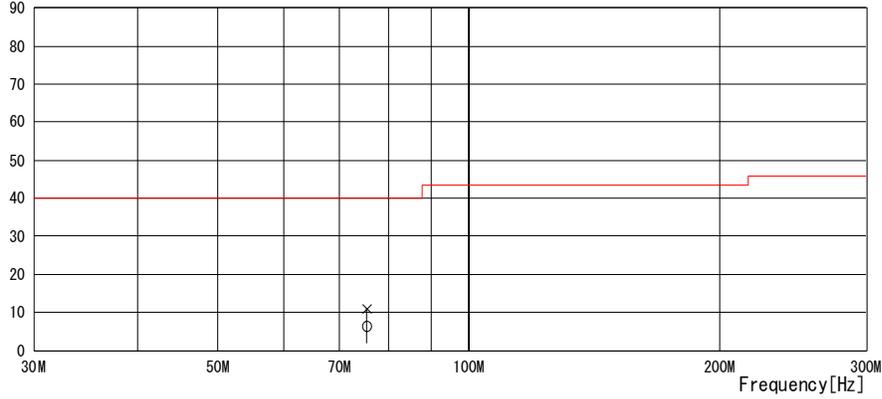
Mode / Remarks : Tx(ch 2: 2405.376MHz)

LIMIT : FCC15C §15.247(c) 3m
Except for the data below : adequate margin data below the limits.

× : Ver. (QP)
○ : Hor. (QP)

[dB μV/m] <<QP DATA>>

HORIZONTAL : ○ / VERTICAL : ×



No.	FREQ [MHz]	READING QP [dB μV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dB μV/m]	LIMIT [dB μV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	75.402	15.3	6.3	7.1	22.3	6.4	40.0	33.6	150	105
----- Vertical -----										
2	75.402	19.9	6.3	7.1	22.3	11.0	40.0	29.0	100	0

CHART: WITHOUT FACTOR ANT TYPE: -30MHz LOOP, 30-300MHz BICONICAL, 300MHz-1000MHz LOGPERIODIC, 1000MHz- HORN
CALCULATION : READING + ANT FACTOR + LOSS (CABLE+ATTEN.) - AMP. GAIN Page:

DATA OF RADIATED EMISSION TEST

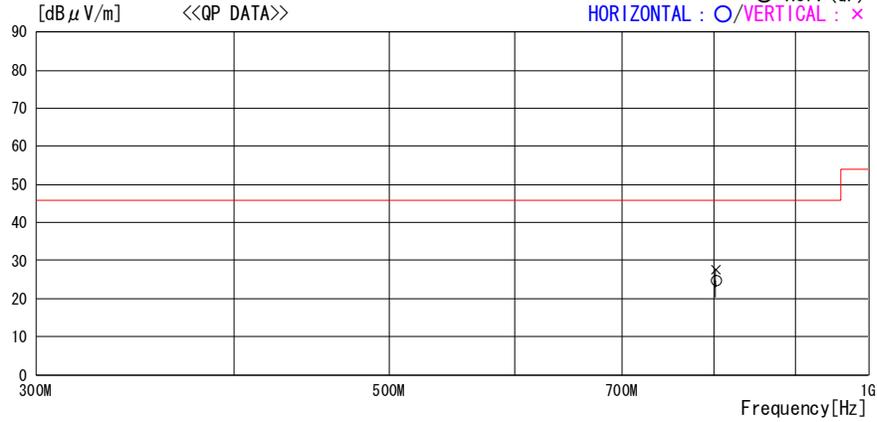
UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2004/01/17 00:57:59

Applicant : SHARP Corporation
Kind of EUT : Cordless Handset
Model No. : UX-CD600K
Sample No. : 5
Report No. : 24EE0151-HO
Power : DC 3.6V
Temp°C/Humi% : 24 / 26%
Operator : Makoto Kosaka

Mode / Remarks : Tx(ch 2: 2405.376MHz)

LIMIT : FCC15C §15.247(c) 3m
Except for the data below : adequate margin data below the limits.

× : Ver. (QP)
○ : Hor. (QP)



No.	FREQ [MHz]	READING QP [dB μV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dB μV/m]	LIMIT [dB μV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
---- Horizontal ----										
1	801.934	16.5	21.4	10.2	23.2	24.9	46.0	21.1	100	85
---- Vertical ----										
2	801.934	19.2	21.4	10.2	23.2	27.6	46.0	18.4	130	0

CHART: WITHOUT FACTOR ANT TYPE : -30MHz LOOP, 30-300MHz BICONICAL, 300MHz-1000MHz LOGPERIODIC, 1000MHz- HORN
CALCULATION : READING + ANT FACTOR + LOSS (CABLE+ATTEN.) - AMP. GAIN
Page:

DATA OF RADIATED EMISSION TEST

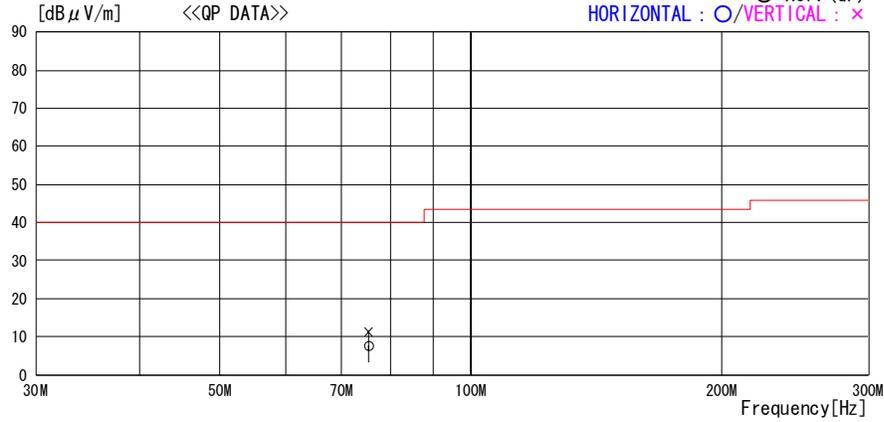
UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2004/01/17 02:24:27

Applicant : SHARP Corporation
Kind of EUT : Cordless Handset
Model No. : UX-CD600K
Sample No. : 5
Report No. : 24EE0151-HO
Power : DC 3.6V
Temp°C/Humi% : 24 / 26%
Operator : Makoto Kosaka

Mode / Remarks : Tx(ch 22: 2439.936MHz)

LIMIT : FCC15C §15.247(c) 3m
Except for the data below : adequate margin data below the limits.

× : Ver. (QP)
○ : Hor. (QP)



No.	FREQ [MHz]	READING QP [dB μV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dB μV/m]	LIMIT [dB μV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	75.390	16.6	6.3	7.1	22.3	7.7	40.0	32.3	300	191
----- Vertical -----										
2	75.390	20.2	6.3	7.1	22.3	11.3	40.0	28.7	100	350

CHART: WITHOUT FACTOR ANT TYPE : -30MHz LOOP, 30-300MHz BICONICAL, 300MHz-1000MHz LOGPERIODIC, 1000MHz- HORN
CALCULATION : READING + ANT FACTOR + LOSS (CABLE+ATTEN.) - AMP. GAIN
Page:

DATA OF RADIATED EMISSION TEST

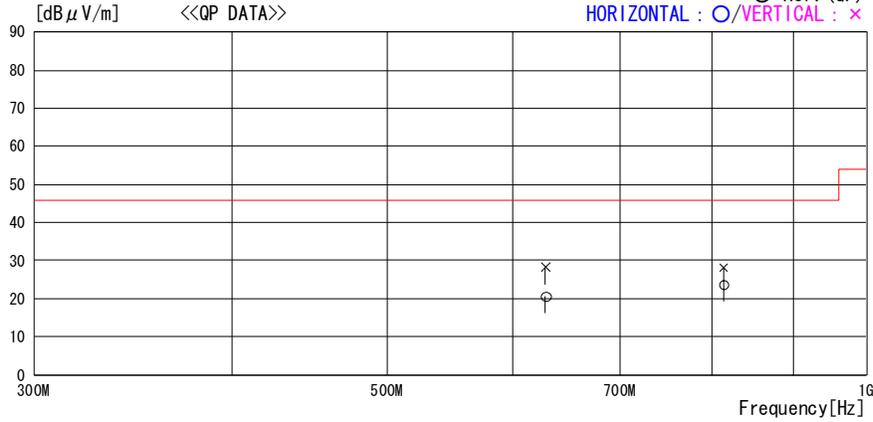
UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber
 Date : 2004/01/17 01:14:38

Applicant : SHARP Corporation
 Kind of EUT : Cordless Handset
 Model No. : UX-CD600K
 Sample No. : 5
 Report No. : 24EE0151-HO
 Power : DC 3.6V
 Temp°C/Humi% : 24 / 26%
 Operator : Makoto Kosaka

Mode / Remarks : Tx(ch 22: 2439.936MHz)

LIMIT : FCC15C §15.247(c) 3m
 Except for the data below : adequate margin data below the limits.

× : Ver. (QP)
 ○ : Hor. (QP)



No.	FREQ [MHz]	READING QP [dB μV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dB μV/m]	LIMIT [dB μV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
---- Horizontal ----										
1	628.993	14.2	19.9	9.7	23.2	20.6	46.0	25.4	100	0
2	813.455	15.2	21.4	10.3	23.2	23.7	46.0	22.3	100	272
---- Vertical ----										
3	628.993	21.8	19.9	9.7	23.2	28.2	46.0	17.8	100	0
4	813.455	19.6	21.4	10.3	23.2	28.1	46.0	17.9	140	353

CHART: WITHOUT FACTOR ANT TYPE : -30MHz LOOP, 30-300MHz BICONICAL, 300MHz-1000MHz LOGPERIODIC, 1000MHz- HORN
 CALCULATION : READING + ANT FACTOR + LOSS (CABLE+ATTEN.) - AMP. GAIN
 Page:

DATA OF RADIATED EMISSION TEST

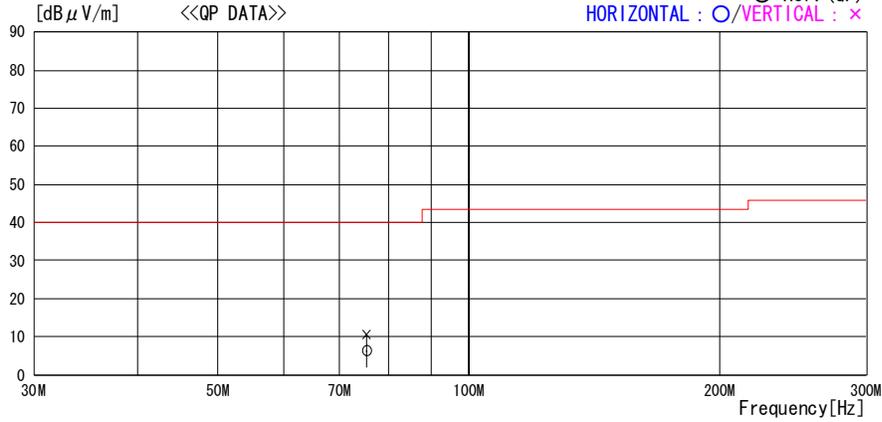
UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber
 Date : 2004/01/17 01:49:43

Applicant : SHARP Corporation
 Kind of EUT : Cordless Handset
 Model No. : UX-CD600K
 Sample No. : 5
 Report No. : 24EE0151-HO
 Power : DC 3.6V
 Temp°C/Humi% : 24 / 26%
 Operator : Makoto Kosaka

Mode / Remarks : Tx(ch 42: 2474.496MHz)

LIMIT : FCC15C §15.247(c) 3m
 Except for the data below : adequate margin data below the limits.

× : Ver. (QP)
 ○ : Hor. (QP)



No.	FREQ [MHz]	READING QP [dB μV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dB μV/m]	LIMIT [dB μV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
---- Horizontal ----										
1	75.365	15.4	6.3	7.1	22.3	6.5	40.0	33.5	150	0
---- Vertical ----										
2	75.365	19.5	6.3	7.1	22.3	10.6	40.0	29.4	100	0

CHART: WITHOUT FACTOR ANT TYPE : -30MHz LOOP, 30-300MHz BICONICAL, 300MHz-1000MHz LOGPERIODIC, 1000MHz- HORN
 CALCULATION : READING + ANT FACTOR + LOSS (CABLE+ATTEN.) - AMP. GAIN
 Page:

DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2004/01/17 01:38:01

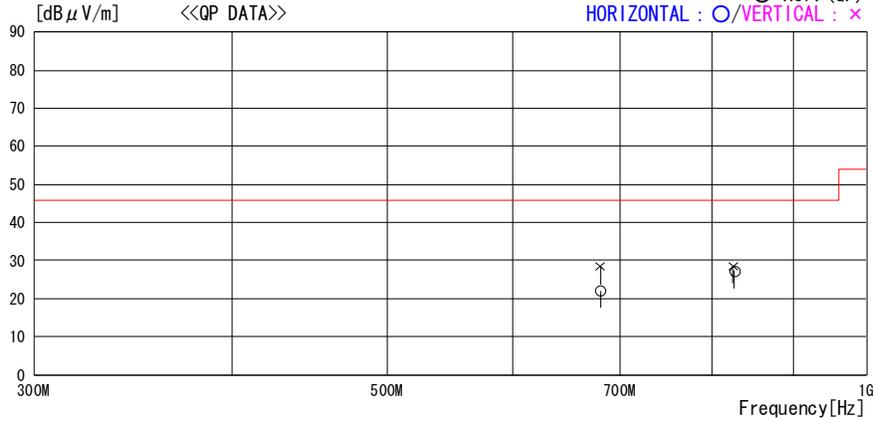
Applicant : SHARP Corporation
Kind of EUT : Cordless Handset
Model No. : UX-CD600K
Sample No. : 5
Report No. : 24EE0151-HO
Power : DC 3.6V
Temp°C/Humi% : 24 / 26%
Operator : Makoto Kosaka

Mode / Remarks : Tx(ch 42: 2474.496MHz)

LIMIT : FCC15C §15.247(c) 3m

Except for the data below : adequate margin data below the limits.

× : Ver. (QP)
○ : Hor. (QP)



No.	FREQ [MHz]	READING QP [dB μV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dB μV/m]	LIMIT [dB μV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	680.831	14.9	20.5	9.9	23.2	22.1	46.0	23.9	166	267
2	826.409	18.8	21.3	10.4	23.2	27.3	46.0	18.7	100	122
----- Vertical -----										
3	680.831	21.2	20.5	9.9	23.2	28.4	46.0	17.6	100	283
4	824.979	19.9	21.4	10.4	23.2	28.5	46.0	17.5	145	342

CHART: WITHOUT FACTOR ANT TYPE : -30MHz LOOP, 30-300MHz BICONICAL, 300MHz-1000MHz LOGPERIODIC, 1000MHz- HORN
CALCULATION : READING + ANT FACTOR + LOSS (CABLE+ATTEN.) - AMP. GAIN
Page:

Spurious Emission(Radiated) (Facsimile Equipment)

UL Apex Co., Ltd.
Head Office EMC Lab. No.2 Semi Anechoic Chamber

COMPANY : SHARP Corporation
EQUIPMENT : Facsimile Equipment
MODEL : UX-CD600
SAMPLE No. : No.2
FCC ID : APYHRO00034
POWER : AC120V/60Hz
Mode : Transmitting (ch 2: 2405.376MHz)
Angle : 0deg(Hor)/90deg(Ver)

REPORT NO : 24EE0151-HO
REGULATION : FCC Part 15 Subpart C 15.247(c)
TEST DISTANCE : 3 and 1m
DATE : 2004/01/13
Temperature : 25deg.C
Humidity : 26%

PK DETECT(S/A : RBW 1MHz and VBW 1MHz)

ENGINEER : Makoto Kosaka

No.	FREQ [GHz]	S/A READING		ANT Factor [dB]	AMP GAIN [dB]	CABLE LOSS [dB]	ATT [dB]	Hi-Pass Filter [dB]	dwell Factor [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR [dBuV]	VER [dBuV]							HOR [dBuV/m]	VER [dBuV/m]		HOR [dB]	VER [dB]
Test distance 3meters														
1	1.603880	58.0	61.5	25.4	37.2	5.1	10.0	0.0	0.0	61.3	64.8	74.0	12.7	9.2
2	2.390000	47.8	48.1	30.8	36.9	6.2	10.0	0.0	0.0	58.0	58.3	74.0	16.0	15.7
3	3.207745	56.3	59.8	31.8	37.1	7.3	10.1	0.0	0.0	68.5	72.0	74.0	5.5	2.0
4	4.811632	45.9	48.8	35.4	36.8	9.0	10.1	1.0	0.0	64.6	67.5	74.0	9.4	6.5
5	7.217483	46.4	46.6	37.9	36.5	11.2	10.2	0.5	0.0	69.7	69.9	74.0	4.3	4.1
6	9.623349	42.7	43.9	37.6	37.2	12.9	10.0	0.5	0.0	66.4	67.6	74.0	7.6	6.4
Test distance 1meters														
7	12.02905	46.2	47.7	41.1	36.8	14.4	0.0	0.6	0.0	56.0	57.5	74.0	18.1	16.6
8	14.43484	41.1	42.1	41.1	35.3	15.3	0.0	0.6	0.0	53.2	54.2	74.0	20.8	19.8
9	16.84066	42.3	45.1	46.0	36.5	17.3	0.0	0.5	0.0	60.0	62.8	74.0	14.0	11.2
10	19.24645	43.5	43.5	39.7	35.8	18.7	0.0	0.8	0.0	57.4	57.4	74.0	16.6	16.6
11	21.65224	43.5	43.5	40.8	36.8	20.0	0.0	0.6	0.0	58.6	58.6	74.0	15.4	15.4
12	24.05803	45.5	45.2	39.9	36.4	20.6	0.0	1.5	0.0	61.6	61.3	74.0	12.4	12.7

AV DETECT(S/A : RBW 1MHz and VBW 10Hz)

No.	FREQ [GHz]	S/A READING		ANT Factor [dB]	AMP GAIN [dB]	CABLE LOSS [dB]	ATT [dB]	Hi-Pass Filter [dB]	dwell Factor [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR [dBuV]	VER [dBuV]							HOR [dBuV/m]	VER [dBuV/m]		HOR [dB]	VER [dB]
Test distance 3meters														
1	1.603880	56.3	60.5	25.4	37.2	5.1	10.0	0.0	-18.0	41.6	45.8	54.0	12.4	8.2
2	2.390000	36.5	35.8	30.8	36.9	6.2	10.0	0.0	-18.0	28.7	28.0	54.0	25.3	26.0
3	3.207745	54.7	58.5	31.8	37.1	7.3	10.1	0.0	-18.0	49.0	52.8	54.0	5.1	1.3
4	4.811632	35.9	39.9	35.4	36.8	9.0	10.1	1.0	-18.0	36.6	40.6	54.0	17.4	13.4
5	7.217483	35.8	37.0	37.9	36.5	11.2	10.2	0.5	-18.0	41.2	42.4	54.0	12.9	11.7
6	9.623349	32.6	32.5	37.6	37.2	12.9	10.0	0.5	-18.0	38.4	38.3	54.0	15.7	15.8
Test distance 1meters														
7	12.02905	39.2	42.4	41.1	36.8	14.4	0.0	0.6	-18.0	31.0	34.2	54.0	23.0	19.8
8	14.43484	30.9	31.8	41.1	35.3	15.3	0.0	0.6	-18.0	25.1	26.0	54.0	29.0	28.0
9	16.84066	31.5	31.5	46.0	36.5	17.3	0.0	0.5	-18.0	31.3	31.3	54.0	22.7	22.7
10	19.24645	32.5	32.8	39.7	35.8	18.7	0.0	0.8	-18.0	28.4	28.7	54.0	25.6	25.3
11	21.65224	32.3	32.3	40.8	36.8	20.0	0.0	0.6	-18.0	29.4	29.4	54.0	24.6	24.6
12	24.05803	34.4	34.5	39.9	36.4	20.6	0.0	1.5	-18.0	32.6	32.7	54.0	21.4	21.3

Sample Calculation :

RESULT=Reading + ANT Factor + Amp Gain + Cable Loss + High Pass Filter (or Att) - Dfac(1m only) + Dwell time Factor.(AV only)

*Except for the above table : All other spurious emissions were less than 20dB for the limit.

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.5 dB

* dwell time factor = 20log (dwell time / 100ms) = 20log (12.656*10⁻³ / 100*10⁻³) = -17.95

UL Apex Co., Ltd.

Head Office EMC Lab.

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone : +81 596 24 8116

Facsimile : +81 596 24 8124

MF060b(10.04.03)

Spurious Emission(Radiated) (Facsimile Equipment)

UL Apex Co., Ltd.
Head Office EMC Lab. No.2 Semi Anechoic Chamber

COMPANY : SHARP Corporation
EQUIPMENT : Facsimile Equipment
MODEL : UX-CD600
SAMPLE No. : No.2
FCC ID : APYHRO00034
POWER : AC120V/60Hz
Mode : Transmitting (ch 22: 2439.936MHz)
Angle : 0deg(Hor)/90deg(Ver)

REPORT NO : 24EE0151-HO
REGULATION : FCC Part 15 Subpart C 15.247(c)
TEST DISTANCE : 3 and 1m
DATE : 2004/01/13
Temperature : 25deg.C
Humidity : 26%

PK DETECT(S/A : RBW 1MHz and VBW 1MHz) ENGINEER : Makoto Kosaka

No.	FREQ [GHz]	S/A READING		ANT Factor [dB]	AMP GAIN [dB]	CABLE LOSS [dB]	ATT [dB]	Hi-Pass Filter [dB]	dwell Factor [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR	VER							HOR	VER		HOR	VER
Test distance 3meters														
1	1.544840	49.2	48.3	24.7	37.3	4.9	10.1	0.0	0.0	51.6	50.7	74.0	22.4	23.3
2	1.626930	56.5	60.0	25.7	37.2	5.1	10.0	0.0	0.0	60.1	63.5	74.0	13.9	10.5
3	3.253825	54.0	52.8	31.7	37.1	7.3	10.1	0.0	0.0	66.1	64.9	74.0	7.9	9.1
4	4.880752	47.7	48.6	35.7	36.8	9.1	10.1	1.0	0.0	66.7	67.6	74.0	7.3	6.4
5	7.321093	47.2	49.6	38.2	36.6	11.2	10.2	0.5	0.0	70.8	73.2	74.0	3.2	0.8
6	9.761494	46.5	47.1	37.3	37.3	13.0	10.0	0.5	0.0	70.0	70.6	74.0	4.0	3.4
Test distance 1meters														
7	12.20185	50.4	50.2	41.1	36.8	14.4	0.0	0.6	0.0	60.1	60.0	74.0	13.9	14.1
8	14.64227	42.0	43.7	41.1	35.3	15.3	0.0	0.6	0.0	54.1	55.8	74.0	19.9	18.2
9	17.08256	45.8	44.7	46.5	36.2	17.4	0.0	0.4	0.0	64.3	63.2	74.0	9.7	10.8
10	19.52295	43.5	43.5	39.3	36.0	18.9	0.0	1.0	0.0	57.2	57.2	74.0	16.9	16.9
11	21.96329	43.7	43.6	40.4	36.0	20.2	0.0	1.0	0.0	59.8	59.7	74.0	14.2	14.3
12	24.40363	45.5	45.2	40.1	36.9	20.8	0.0	2.3	0.0	62.3	62.0	74.0	11.7	12.0

AV DETECT(S/A : RBW 1MHz and VBW 10Hz)

No.	FREQ [GHz]	S/A READING		ANT Factor [dB]	AMP GAIN [dB]	CABLE LOSS [dB]	ATT [dB]	Hi-Pass Filter [dB]	dwell Factor [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR	VER							HOR	VER		HOR	VER
Test distance 3meters														
1	1.544840	43.0	42.0	24.7	37.3	4.9	10.1	0.0	-18.0	27.4	26.4	54.0	26.6	27.6
2	1.626930	54.9	58.9	25.7	37.2	5.1	10.0	0.0	-18.0	40.5	44.5	54.0	13.5	9.5
3	3.253825	51.7	49.9	31.7	37.1	7.3	10.1	0.0	-18.0	45.8	44.0	54.0	8.2	10.0
4	4.880752	42.9	43.7	35.7	36.8	9.1	10.1	1.0	-18.0	44.0	44.8	54.0	10.0	9.2
5	7.321093	41.4	45.4	38.2	36.6	11.2	10.2	0.5	-18.0	47.0	51.0	54.0	7.0	3.0
6	9.761494	39.0	39.8	37.3	37.3	13.0	10.0	0.5	-18.0	44.5	45.3	54.0	9.5	8.7
Test distance 1meters														
7	12.20185	46.7	46.7	41.1	36.8	14.4	0.0	0.6	-18.0	38.5	38.5	54.0	15.5	15.5
8	14.64227	31.2	35.9	41.1	35.3	15.3	0.0	0.6	-18.0	25.4	30.1	54.0	28.6	23.9
9	17.08256	34.5	34.6	46.5	36.2	17.4	0.0	0.4	-18.0	35.1	35.2	54.0	18.9	18.8
10	19.52295	32.5	32.8	39.3	36.0	18.9	0.0	1.0	-18.0	28.2	28.5	54.0	25.8	25.6
11	21.96329	32.3	32.3	40.4	36.0	20.2	0.0	1.0	-18.0	30.5	30.5	54.0	23.5	23.5
12	24.40363	34.4	34.5	40.1	36.9	20.8	0.0	2.3	-18.0	33.3	33.4	54.0	20.7	20.6

Sample Calculation :
RESULT=Reading + ANT Factor + Amp Gain + Cable Loss + High Pass Filter (or Att) - Dfac(1m only) + Dwell time Factor.(AV only)
*Except for the above table : All other spurious emissions were less than 20dB for the limit.
Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.5 dB
* dwell time factor = 20log (dwell time / 100ms) = 20log (12.656*10⁻³ / 100*10⁻³) = -17.95

Spurious Emission(Radiated) (Facsimile Equipment)

UL Apex Co., Ltd.
Head Office EMC Lab. No.2 Semi Anechoic Chamber

COMPANY : SHARP Corporation
EQUIPMENT : Facsimile Equipment
MODEL : UX-CD600
SAMPLE No. : No.2
FCC ID : APYHRO00034
POWER : AC120V/60Hz
Mode : Transmitting (ch 42: 2474.496MHz)
Angle : 0deg(Hor)/90deg(Ver)

REPORT NO : 24EE0151-HO
REGULATION : FCC Part 15 Subpart C 15.247(c)
TEST DISTANCE : 3 and 1m
DATE : 2004/01/13
Temperature : 25deg.C
Humidity : 26%

PK DETECT(S/A : RBW 1MHz and VBW 1MHz) ENGINEER : Makoto Kosaka

No.	FREQ [GHz]	S/A READING		ANT Factor [dB]	AMP GAIN [dB]	CABLE LOSS [dB]	ATT [dB]	Hi-Pass Filter [dB]	dwell Factor [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR [dBuV]	VER [dBuV]							HOR [dBuV/m]	VER [dBuV/m]		HOR [dB]	VER [dB]
Test distance 3meters														
1	1.649915	55.6	59.2	25.9	37.2	5.1	10.0	0.0	0.0	59.5	63.0	74.0	14.5	11.0
2	2.483500	49.4	49.7	31.0	36.9	6.4	10.1	0.0	0.0	59.8	60.1	74.0	14.2	13.9
3	3.299925	51.6	51.8	31.6	37.1	7.3	10.1	0.0	0.0	63.5	63.7	74.0	10.5	10.3
4	4.949847	48.3	49.6	36.0	36.8	9.2	10.1	1.0	0.0	67.8	69.1	74.0	6.2	4.9
5	7.424783	46.3	46.6	38.4	36.6	11.3	10.2	0.5	0.0	70.1	70.4	74.0	3.9	3.6
6	9.899734	46.0	45.6	37.0	37.3	13.1	10.0	0.5	0.0	69.2	68.8	74.0	4.8	5.2
Test distance 1meters														
7	12.37466	55.4	55.7	41.1	36.8	14.4	0.0	0.6	0.0	65.2	65.4	74.0	8.8	8.6
8	14.84958	44.3	46.1	41.1	35.3	15.3	0.0	0.6	0.0	56.4	58.2	74.0	17.6	15.8
9	17.32449	47.7	46.7	46.9	36.2	17.6	0.0	0.3	0.0	66.7	65.8	74.0	7.3	8.2
10	19.79944	43.5	43.5	39.8	36.1	19.0	0.0	1.1	0.0	57.9	57.9	74.0	16.2	16.2
11	22.27431	43.5	43.6	40.7	35.6	20.3	0.0	1.7	0.0	61.1	61.2	74.0	12.9	12.8
12	24.74926	45.5	45.2	40.2	36.8	20.9	0.0	2.7	0.0	63.1	62.8	74.0	10.9	11.2

AV DETECT(S/A : RBW 1MHz and VBW 10Hz)

No.	FREQ [GHz]	S/A READING		ANT Factor [dB]	AMP GAIN [dB]	CABLE LOSS [dB]	ATT [dB]	Hi-Pass Filter [dB]	dwell Factor [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR [dBuV]	VER [dBuV]							HOR [dBuV/m]	VER [dBuV/m]		HOR [dB]	VER [dB]
Test distance 3meters														
1	1.649915	52.7	57.4	25.9	37.2	5.1	10.0	0.0	-18.0	38.6	43.3	54.0	15.4	10.7
2	2.483500	38.2	36.9	31.0	36.9	6.4	10.1	0.0	-18.0	30.7	29.4	54.0	23.3	24.6
3	3.299925	46.8	47.0	31.6	37.1	7.3	10.1	0.0	-18.0	40.8	41.0	54.0	13.2	13.0
4	4.949847	43.8	45.7	36.0	36.8	9.2	10.1	1.0	-18.0	45.3	47.2	54.0	8.7	6.8
5	7.424783	41.1	41.2	38.4	36.6	11.3	10.2	0.5	-18.0	47.0	47.1	54.0	7.0	6.9
6	9.899734	39.2	38.0	37.0	37.3	13.1	10.0	0.5	-18.0	44.5	43.3	54.0	9.5	10.7
Test distance 1meters														
7	12.37466	53.1	53.1	41.1	36.8	14.4	0.0	0.6	-18.0	44.9	44.9	54.0	9.1	9.1
8	14.84958	38.8	41.6	41.1	35.3	15.3	0.0	0.6	-18.0	33.0	35.8	54.0	21.0	18.2
9	17.32449	39.9	38.6	46.9	36.2	17.6	0.0	0.3	-18.0	41.1	39.8	54.0	12.9	14.2
10	19.79944	32.5	32.8	39.8	36.1	19.0	0.0	1.1	-18.0	28.9	29.2	54.0	25.1	24.9
11	22.27431	32.3	32.3	40.7	35.6	20.3	0.0	1.7	-18.0	31.9	31.9	54.0	22.1	22.1
12	24.74926	34.4	34.5	40.2	36.8	20.9	0.0	2.7	-18.0	34.0	34.1	54.0	20.0	19.9

Sample Calculation :
RESULT=Reading + ANT Factor + Amp Gain + Cable Loss + High Pass Filter (or Att) - Dfac(1m only) + Dwell time Factor.(AV only)
*Except for the above table : All other spurious emissions were less than 20dB for the limit.
Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.5 dB
* dwell time factor = 20log (dwell time / 100ms) = 20log (12.656*10⁻³ / 100*10⁻³) = -17.95

Spurious Emission(Radiated) (Cordless Handset)

UL Apex Co., Ltd.
Head Office EMC Lab. No.2 Semi Anechoic Chamber

COMPANY : SHARP Corporation
EQUIPMENT : Cordless Handset
MODEL : UX-CD600K
SAMPLE No. : No.5
FCC ID : APYHRO00034
POWER : DC 3.6V
Mode : Transmitting (ch 2: 2405.376MHz)
AXIS : Y(Hor)/Z(Ver)

REPORT NO : 24EE0151-HO
REGULATION : FCC Part 15 Subpart C 15.247(c)
TEST DISTANCE : 3 and 1m
DATE : 2004/01/15
Temperature : 23deg.C
Humidity : 29%

PK DETECT(S/A : RBW 1MHz and VBW 1MHz) ENGINEER : Makoto Kosaka

No.	FREQ [GHz]	S/A READING		ANT Factor [dB]	AMP GAIN [dB]	CABLE LOSS [dB]	ATT [dB]	Hi-Pass Filter [dB]	dwell Factor [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR [dBuV]	VER							HOR [dBuV/m]	VER		HOR [dB]	VER
Test distance 3meters														
1	1.603880	46.6	50.3	25.4	37.2	5.1	10.0	0.0	0.0	49.9	53.6	74.0	24.1	20.4
2	2.390000	47.8	46.9	30.8	36.9	6.2	10.0	0.0	0.0	58.0	57.1	74.0	16.0	16.9
3	3.207745	51.5	50.4	31.8	37.1	7.3	10.1	0.0	0.0	63.7	62.6	74.0	10.3	11.4
4	4.811647	49.4	48.7	35.4	36.8	9.0	10.1	1.0	0.0	68.1	67.4	74.0	5.9	6.6
5	7.217433	47.5	46.4	37.9	36.5	11.2	10.2	0.5	0.0	70.8	69.7	74.0	3.2	4.3
6	9.623269	42.8	43.6	37.6	37.2	12.9	10.0	0.5	0.0	66.5	67.3	74.0	7.5	6.7
Test distance 1meters														
7	12.02906	54.1	51.2	41.1	36.8	14.4	0.0	0.6	0.0	63.9	61.0	74.0	10.2	13.1
8	14.43483	42.1	42.2	41.1	35.3	15.3	0.0	0.6	0.0	54.2	54.3	74.0	19.8	19.7
9	16.84065	44.4	43.2	46.0	36.5	17.3	0.0	0.5	0.0	62.1	60.9	74.0	11.9	13.1
10	19.24642	41.0	41.5	39.7	35.8	18.7	0.0	0.8	0.0	54.9	55.4	74.0	19.1	18.6
11	21.65219	43.0	42.5	40.8	36.8	20.0	0.0	0.6	0.0	58.1	57.6	74.0	15.9	16.4
12	24.05796	42.3	41.7	39.9	36.4	20.6	0.0	1.5	0.0	58.4	57.8	74.0	15.6	16.2

AV DETECT(S/A : RBW 1MHz and VBW 10Hz)

No.	FREQ [GHz]	S/A READING		ANT Factor [dB]	AMP GAIN [dB]	CABLE LOSS [dB]	ATT [dB]	Hi-Pass Filter [dB]	dwell Factor [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR [dBuV]	VER							HOR [dBuV/m]	VER		HOR [dB]	VER
Test distance 3meters														
1	1.603880	39.1	46.2	25.4	37.2	5.1	10.0	0.0	-20.4	22.0	29.1	54.0	32.0	24.9
2	2.390000	36.3	35.5	30.8	36.9	6.2	10.0	0.0	-20.4	26.1	25.3	54.0	27.9	28.7
3	3.207745	46.6	45.5	31.8	37.1	7.3	10.1	0.0	-20.4	38.4	37.3	54.0	15.6	16.7
4	4.811647	45.8	44.6	35.4	36.8	9.0	10.1	1.0	-20.4	44.1	42.9	54.0	9.9	11.1
5	7.217433	42.6	39.7	37.9	36.5	11.2	10.2	0.5	-20.4	45.5	42.6	54.0	8.5	11.4
6	9.623269	32.3	32.9	37.6	37.2	12.9	10.0	0.5	-20.4	35.6	36.2	54.0	18.4	17.8
Test distance 1meters														
7	12.02906	50.5	47.3	41.1	36.8	14.4	0.0	0.6	-20.4	39.9	36.7	54.0	14.2	17.4
8	14.43483	33.3	32.2	41.1	35.3	15.3	0.0	0.6	-20.4	25.0	23.9	54.0	29.0	30.1
9	16.84065	32.4	32.1	46.0	36.5	17.3	0.0	0.5	-20.4	29.7	29.4	54.0	24.3	24.6
10	19.24642	30.0	32.5	39.7	35.8	18.7	0.0	0.8	-20.4	23.5	26.0	54.0	30.5	28.0
11	21.65219	31.0	31.3	40.8	36.8	20.0	0.0	0.6	-20.4	25.7	26.0	54.0	28.3	28.0
12	24.05796	31.3	31.0	39.9	36.4	20.6	0.0	1.5	-20.4	27.0	26.7	54.0	27.0	27.3

Sample Calculation :
RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + High Pass Filter (or Att) - Dfacc(1m only) + Dwell time Factor.(AV only)
*Except for the above table : All other spurious emissions were less than 20dB for the limit.
Test Distance 1.0m : Distance Factor(Dfacc) = 20log(3/1.0) = 9.5 dB
*dwell time factor = 20log (dwell time / 100ms) - 20log (9.534*10⁻³ / 100*10⁻³) = -20.4

Spurious Emission(Radiated) (Cordless Handset)

UL Apex Co., Ltd.
Head Office EMC Lab. No.2 Semi Anechoic Chamber

COMPANY : SHARP Corporation	REPORT NO : 24EE0151-HO
EQUIPMENT : Cordless Handset	REGULATION : FCC Part 15 Subpart C 15.247(c)
MODEL : UX-CD600K	TEST DISTANCE : 3 and 1m
SAMPLE No. : No.5	DATE : 2004/01/15
FCC ID : APYHRO00034	Temperature : 23deg.C
POWER : DC 3.6V	Humidity : 29%
Mode : Transmitting (ch 22: 2439.936MHz)	
AXIS : Y(Hor)/Z(Ver)	

ENGINEER : Makoto Kosaka

No.	FREQ [GHz]	S/A READING		ANT Factor [dB]	AMP GAIN [dB]	CABLE LOSS [dB]	ATT [dB]	Hi-Pass Filter [dB]	dwell Factor [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR [dBuV]	VER [dBuV]							HOR [dBuV/m]	VER [dBuV/m]		HOR [dB]	VER [dB]
Test distance 3meters														
1	1.626930	44.6	46.4	25.7	37.2	5.1	10.0	0.0	0.0	48.2	50.0	74.0	25.8	24.0
2	3.253825	47.7	47.6	31.7	37.1	7.3	10.1	0.0	0.0	59.8	59.7	74.0	14.2	14.3
3	4.880747	52.5	49.4	35.7	36.8	9.1	10.1	1.0	0.0	71.5	68.4	74.0	2.5	5.6
4	7.321113	46.9	47.5	38.2	36.6	11.2	10.2	0.5	0.0	70.5	71.1	74.0	3.5	2.9
5	9.761514	44.5	45.6	37.3	37.3	13.0	10.0	0.5	0.0	68.0	69.1	74.0	6.0	4.9
Test distance 1meters														
6	12.20190	51.3	53.8	41.1	36.8	14.4	0.0	0.6	0.0	61.1	63.6	74.0	13.0	10.5
7	14.64226	41.2	41.2	41.1	35.3	15.3	0.0	0.6	0.0	53.3	53.3	74.0	20.7	20.7
8	17.08266	43.5	42.6	46.5	36.2	17.4	0.0	0.4	0.0	62.0	61.1	74.0	12.0	12.9
9	19.52306	41.4	41.5	39.3	36.0	18.9	0.0	1.0	0.0	55.1	55.2	74.0	19.0	18.9
10	21.96346	43.0	42.2	40.4	36.0	20.2	0.0	1.0	0.0	59.1	58.3	74.0	14.9	15.7
11	24.40386	42.3	41.7	40.1	36.9	20.8	0.0	2.3	0.0	59.1	58.5	74.0	14.9	15.5

No.	FREQ [GHz]	S/A READING		ANT Factor [dB]	AMP GAIN [dB]	CABLE LOSS [dB]	ATT [dB]	Hi-Pass Filter [dB]	dwell Factor [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR [dBuV]	VER [dBuV]							HOR [dBuV/m]	VER [dBuV/m]		HOR [dB]	VER [dB]
Test distance 3meters														
1	1.626930	34.3	38.8	25.7	37.2	5.1	10.0	0.0	-20.4	17.5	22.0	54.0	36.5	32.0
2	3.253825	42.2	40.2	31.7	37.1	7.3	10.1	0.0	-20.4	33.9	31.9	54.0	20.1	22.1
3	4.880747	49.3	45.4	35.7	36.8	9.1	10.1	1.0	-20.4	47.9	44.0	54.0	6.1	10.0
4	7.321113	42.2	42.2	38.2	36.6	11.2	10.2	0.5	-20.4	45.4	45.4	54.0	8.6	8.6
5	9.761514	37.9	38.1	37.3	37.3	13.0	10.0	0.5	-20.4	41.0	41.2	54.0	13.0	12.8
Test distance 1meters														
6	12.20190	47.0	49.8	41.1	36.8	14.4	0.0	0.6	-20.4	36.4	39.2	54.0	17.7	14.9
7	14.64226	30.1	31.4	41.1	35.3	15.3	0.0	0.6	-20.4	21.8	23.1	54.0	32.2	30.9
8	17.08266	31.6	31.6	46.5	36.2	17.4	0.0	0.4	-20.4	29.7	29.8	54.0	24.3	24.2
9	19.52306	30.0	32.5	39.3	36.0	18.9	0.0	1.0	-20.4	23.3	25.8	54.0	30.8	28.3
10	21.96346	31.2	31.6	40.4	36.0	20.2	0.0	1.0	-20.4	26.9	27.3	54.0	27.1	26.7
11	24.40386	31.1	31.0	40.1	36.9	20.8	0.0	2.3	-20.4	27.5	27.4	54.0	26.5	26.6

Sample Calculation :

RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + High Pass Filter (or Att) - Dfac(1m only) + Dwell time Factor.(AV only)

*Except for the above table : All other spurious emissions were less than 20dB for the limit.

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.5 dB

* dwell time factor = 20log (dwell time / 100ms) = 20log (9.534*10⁻³ / 100*10⁻³) = -20.4

Spurious Emission(Radiated) (Cordless Handset)

UL Apex Co., Ltd.
Head Office EMC Lab. No.2 Semi Anechoic Chamber

COMPANY : SHARP Corporation	REPORT NO : 24EE0151-HO
EQUIPMENT : Cordless Handset	REGULATION : FCC Part 15 Subpart C 15.247(c)
MODEL : UX-CD600K	TEST DISTANCE : 3 and 1m
SAMPLE No. : No.5	DATE : 2004/01/15
FCC ID : APYHRO00034	Temperature : 23deg.C
POWER : DC 3.6V	Humidity : 29%
Mode : Transmitting (ch 42: 2474.496MHz)	
AXIS : Y(Hor)/Z(Ver)	

ENGINEER : Makoto Kosaka

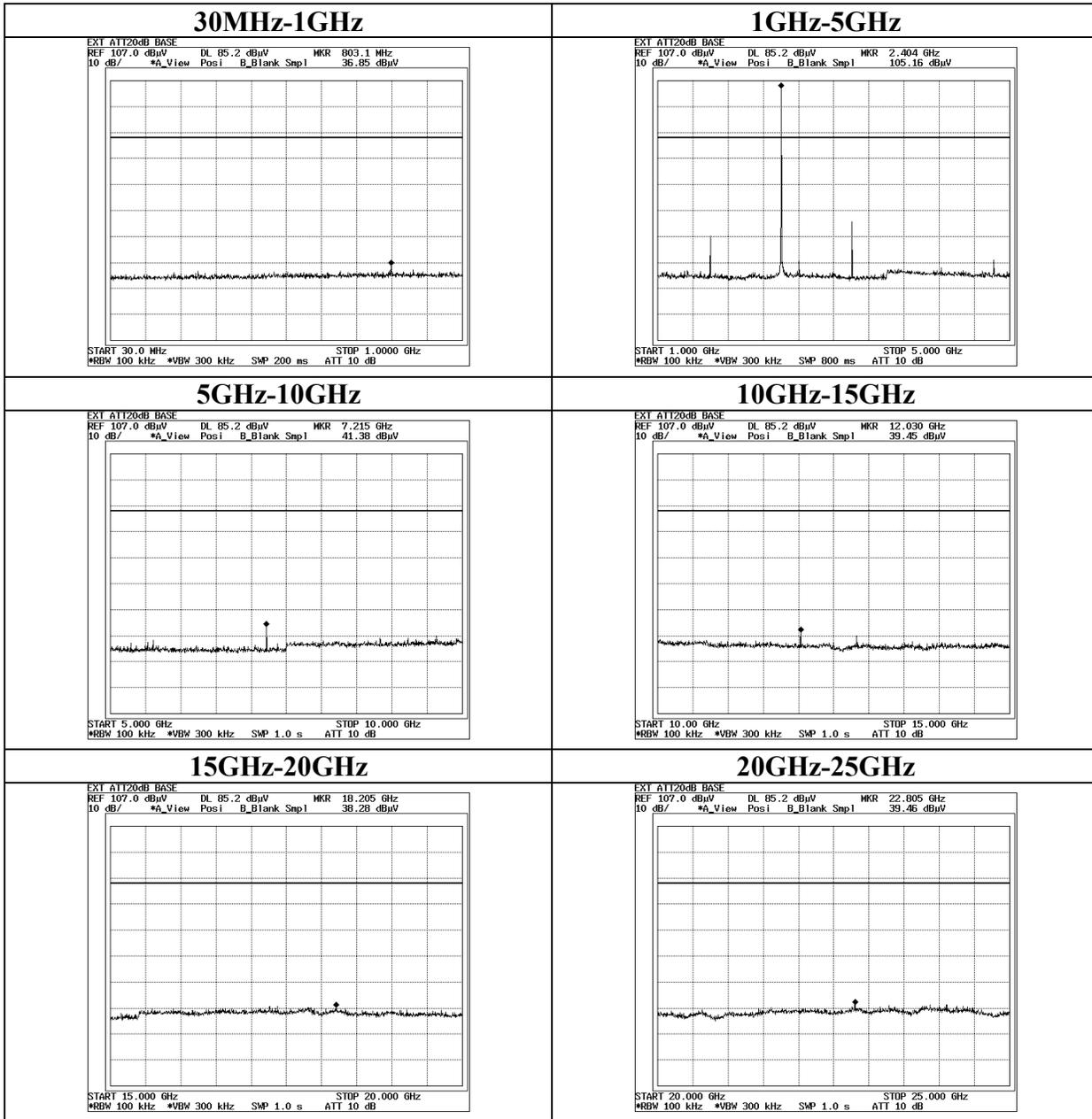
No.	FREQ [GHz]	S/A READING		ANT Factor [dB]	AMP GAIN [dB]	CABLE LOSS [dB]	ATT [dB]	Hi-Pass Filter [dB]	dwell Factor [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR [dBuV]	VER [dBuV]							HOR [dBuV/m]	VER [dBuV/m]		HOR [dB]	VER [dB]
Test distance 3meters														
1	1.649915	46.7	46.0	25.9	37.2	5.1	10.0	0.0	0.0	50.6	49.9	74.0	23.4	24.1
2	2.483500	48.7	48.1	31.0	36.9	6.4	10.1	0.0	0.0	59.1	58.5	74.0	14.9	15.5
3	3.299925	46.3	45.3	31.6	37.1	7.3	10.1	0.0	0.0	58.2	57.2	74.0	15.8	16.8
4	4.949862	52.1	52.1	36.0	36.8	9.2	10.1	1.0	0.0	71.6	71.6	74.0	2.4	2.4
5	7.424823	47.7	48.1	38.4	36.6	11.3	10.2	0.5	0.0	71.5	71.9	74.0	2.5	2.1
6	9.899729	45.0	44.5	37.0	37.3	13.1	10.0	0.5	0.0	68.2	67.7	74.0	5.8	6.3
Test distance 1meters														
7	12.37466	52.1	53.7	41.1	36.8	14.4	0.0	0.6	0.0	61.9	63.5	74.0	12.2	10.5
8	14.84957	40.8	41.2	41.1	35.3	15.3	0.0	0.6	0.0	52.9	53.3	74.0	21.1	20.7
9	17.32447	43.1	42.0	46.9	36.2	17.6	0.0	0.3	0.0	62.2	61.1	74.0	11.8	12.9
10	19.79938	41.0	41.5	39.8	36.1	19.0	0.0	1.1	0.0	55.4	55.9	74.0	18.7	18.2
11	22.27428	43.0	42.5	40.7	35.6	20.3	0.0	1.7	0.0	60.6	60.1	74.0	13.4	13.9
12	24.74919	42.3	41.7	40.2	36.8	20.9	0.0	2.7	0.0	59.9	59.3	74.0	14.1	14.7

No.	FREQ [GHz]	S/A READING		ANT Factor [dB]	AMP GAIN [dB]	CABLE LOSS [dB]	ATT [dB]	Hi-Pass Filter [dB]	dwell Factor [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR [dBuV]	VER [dBuV]							HOR [dBuV/m]	VER [dBuV/m]		HOR [dB]	VER [dB]
Test distance 3meters														
1	1.649915	38.9	38.0	25.9	37.2	5.1	10.0	0.0	-20.4	22.4	21.4	54.0	31.6	32.6
2	2.483500	37.9	37.3	31.0	36.9	6.4	10.1	0.0	-20.4	27.9	27.3	54.0	26.1	26.7
3	3.299925	39.3	37.6	31.6	37.1	7.3	10.1	0.0	-20.4	30.8	29.1	54.0	23.2	24.9
4	4.949862	48.6	48.9	36.0	36.8	9.2	10.1	1.0	-20.4	47.7	48.0	54.0	6.3	6.0
5	7.424823	43.0	45.1	38.4	36.6	11.3	10.2	0.5	-20.4	46.4	48.5	54.0	7.6	5.5
6	9.899729	36.6	35.2	37.0	37.3	13.1	10.0	0.5	-20.4	39.4	38.0	54.0	14.6	16.0
Test distance 1meters														
7	12.37466	49.4	51.2	41.1	36.8	14.4	0.0	0.6	-20.4	38.8	40.6	54.0	15.3	13.5
8	14.84957	29.8	29.8	41.1	35.3	15.3	0.0	0.6	-20.4	21.5	21.5	54.0	32.5	32.5
9	17.32447	31.7	31.4	46.9	36.2	17.6	0.0	0.3	-20.4	30.4	30.1	54.0	23.6	23.9
10	19.79938	30.0	32.5	39.8	36.1	19.0	0.0	1.1	-20.4	24.0	26.5	54.0	30.1	27.6
11	22.27428	31.0	31.0	40.7	35.6	20.3	0.0	1.7	-20.4	28.2	28.2	54.0	25.8	25.8
12	24.74919	31.1	31.0	40.2	36.8	20.9	0.0	2.7	-20.4	28.3	28.2	54.0	25.7	25.8

Sample Calculation :
RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + High Pass Filter (or Att) - Dfacc(1m only) + Dwell time Factor.(AV only)
*Except for the above table : All other spurious emissions were less than 20dB for the limit.
Test Distance 1.0m : Distance Factor(Dfacc) = 20log(3/1.0) = 9.5 dB
*dwell time factor = 20log (dwell time / 100ms) - 20log (9.534*10⁻³ / 100*10⁻³) = -20.4

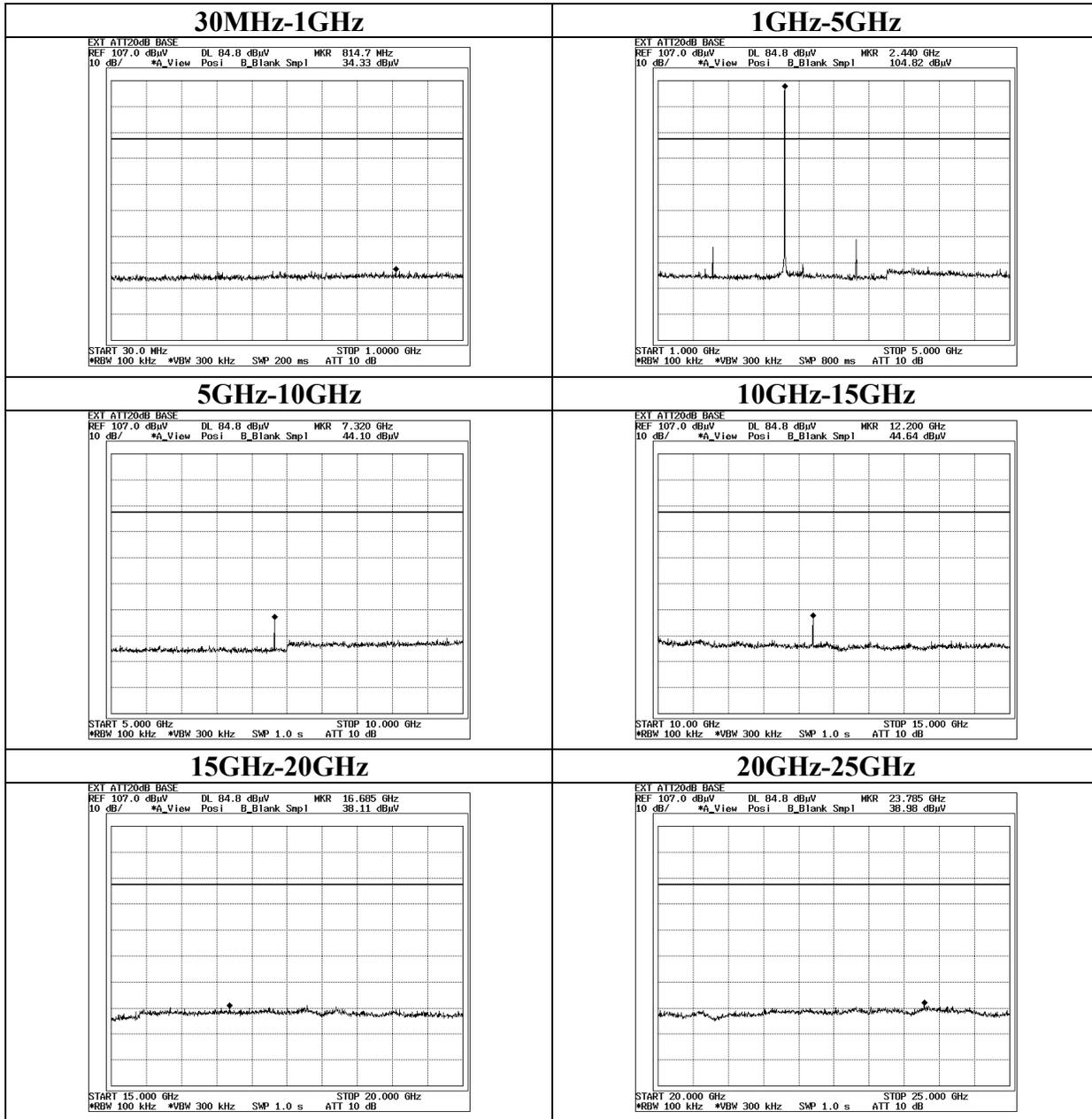
Spurious Emission(Conducted) (Facsimile Equipment)

Ch2: 2405.376MHz



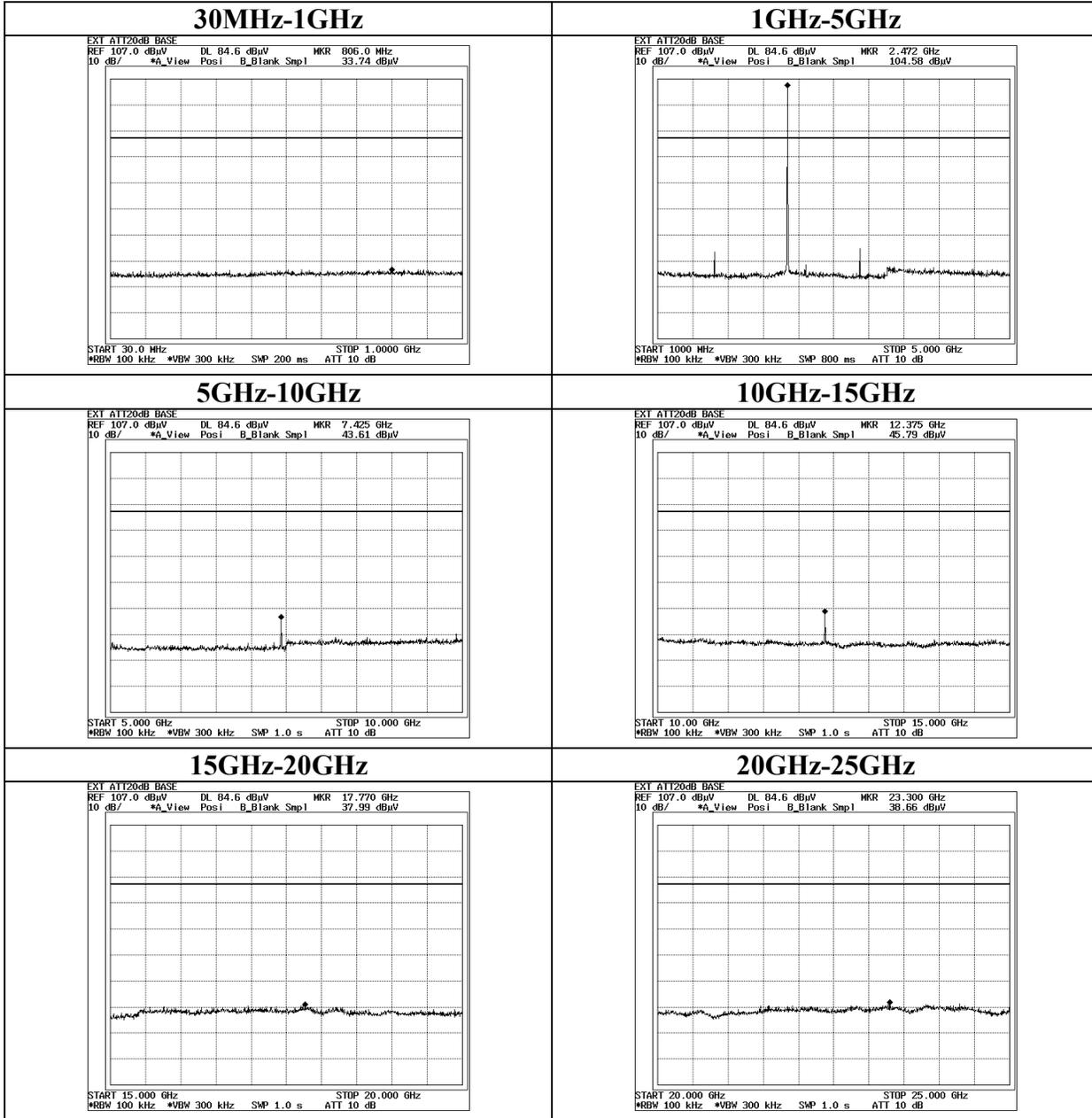
Spurious Emission(Conducted) (Facsimile Equipment)

Ch22: 2439.936MHz



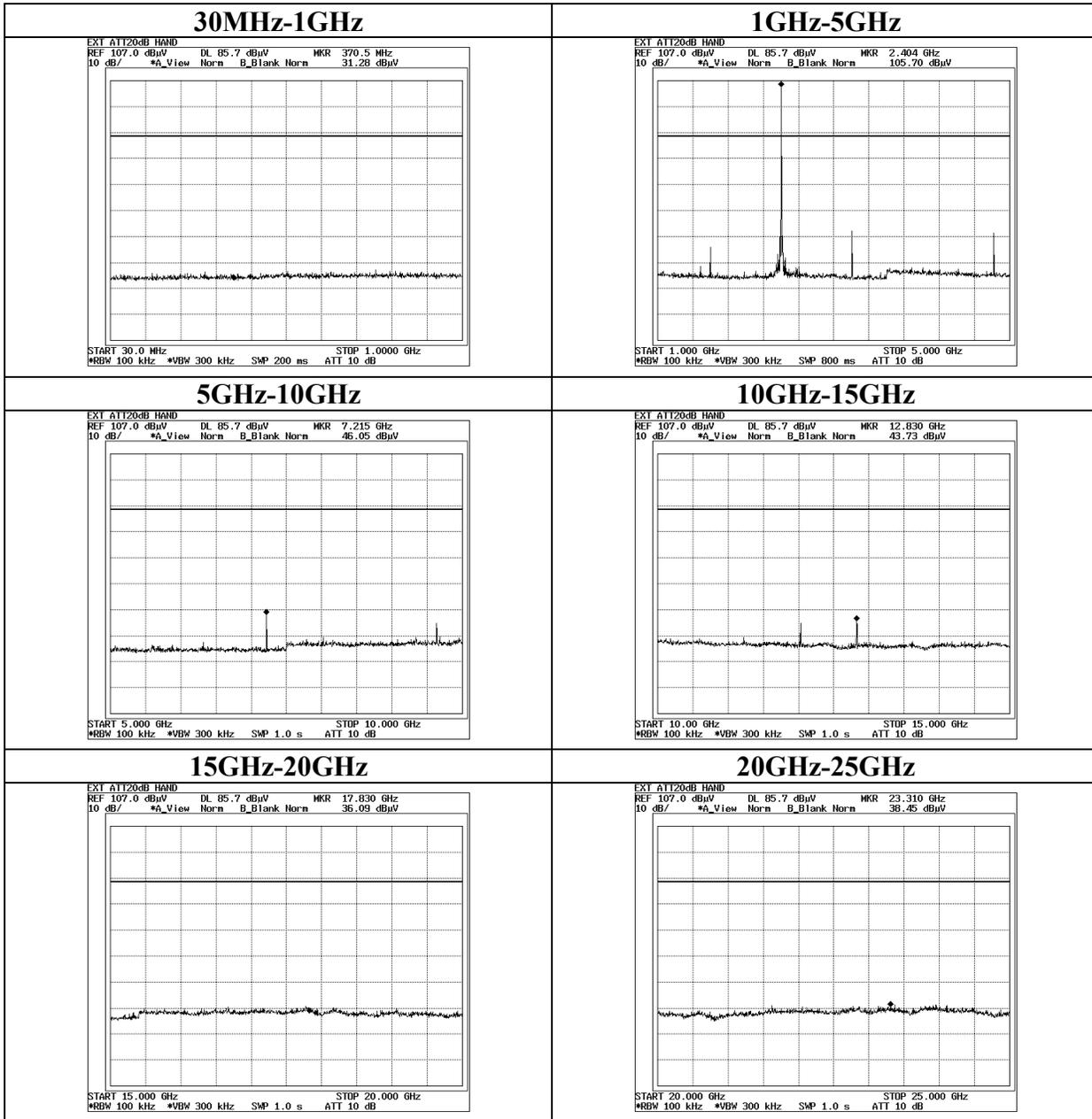
Spurious Emission(Conducted) (Facsimile Equipment)

Ch42: 2474.496MHz



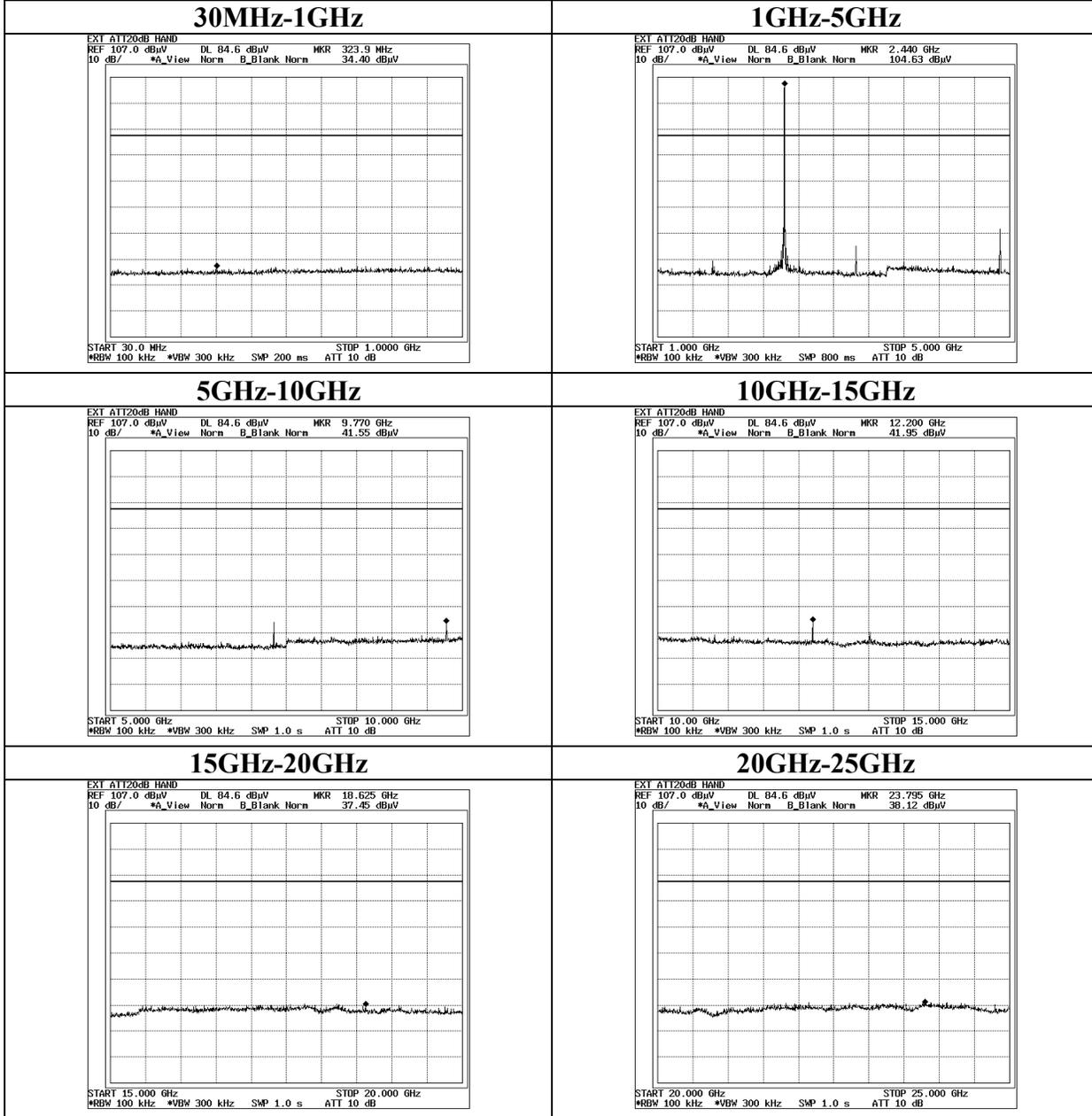
Spurious Emission(Conducted) (Cordless Handset)

Ch2: 2405.376MHz



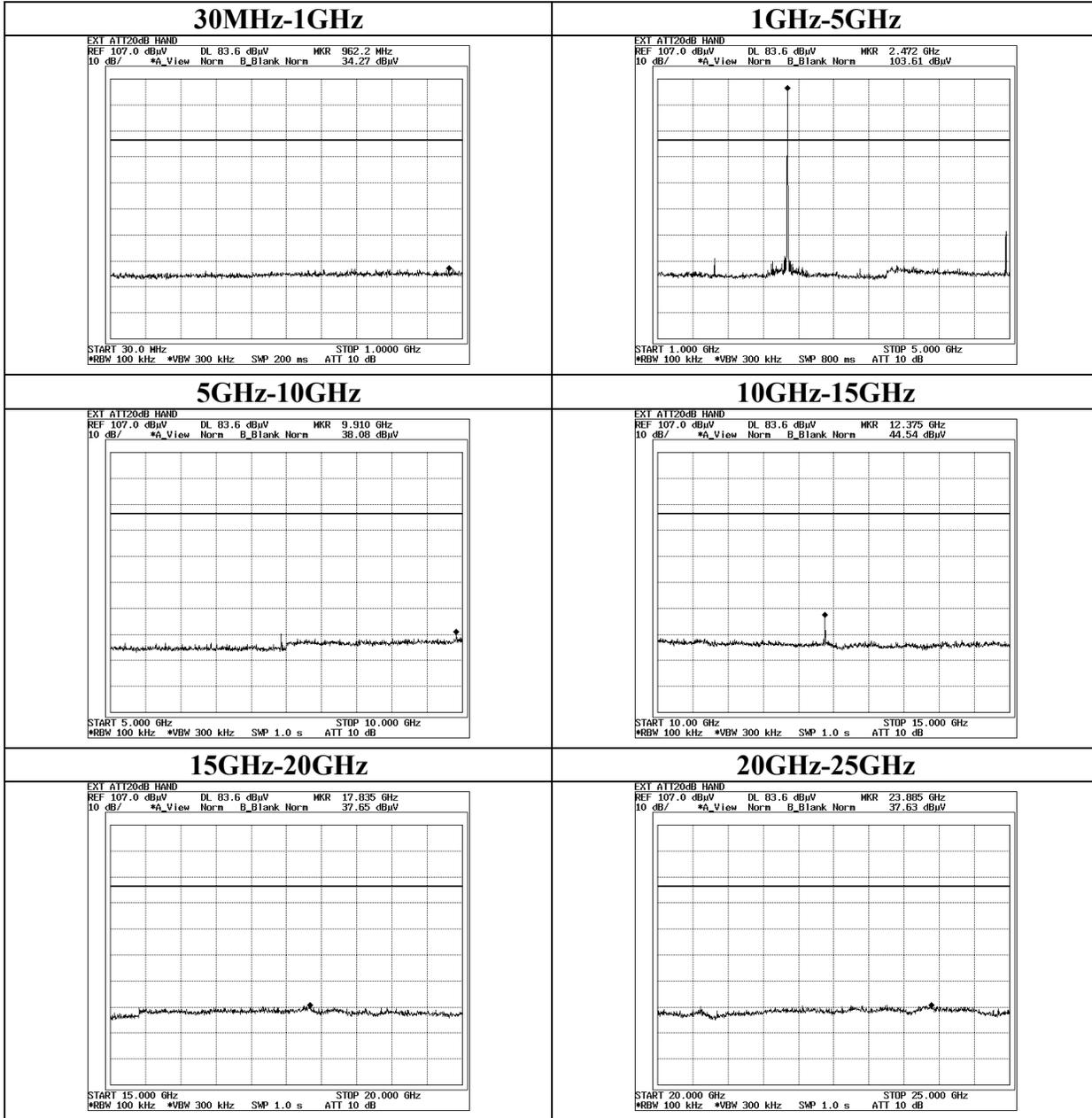
Spurious Emission(Conducted) (Cordless Handset)

Ch22: 2439.936MHz



Spurious Emission(Conducted) (Cordless Handset)

Ch42: 2474.496MHz



99% Occupied Bandwidth

