



EMI TEST REPORT

Test Report No. : 25LE0090-HO

Applicant : Sharp Corporation
Type of Equipment : GSM900/1800/1900GPRS Phone
Model No. : GX40
FCC ID : APYHRO00042
Test standard : FCC Part 15 Subpart C
Section 15.207, Section 15.247: 2005
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 the 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.

Date of test:

September 2, 2005

Tested by:

K. Adachi

Kenichi Adachi
EMC Services

T. Shimada

Takumi Shimada
EMC Services

Approved by :

H. Shinogi

Hironobu Shinogi
Group Leader of
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UL Apex Co., Ltd.

Head Office EMC Lab.

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SECTION 1: Client information

Company Name : Sharp Corporation
Brand Name : SHARP
Address : 2-13-1 Iida Hachihonmatsu HigashiHiroshima-City,Hiroshima-pref.
Japan
Telephone Number : +81-82-420-1817
Facsimile Number : +81-82-420-1654
Contact Person : Masatsugu Daiju

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

2.1 Identification of E.U.T.

Type of Equipment : GSM900/1800/1900GPRS Phone
Model No. : GX40
Serial No. : 004400/01/630096/2 for Antenna Terminal
004400/01/630097/0 for Radiated Emission and Conducted Emission
Country of Manufacture : Japan
Condition of EUT : Production prototype
(Not for Sale: This sample is equivalent to mass-produced items.)
Receipt Date of Sample : August 31, 2005

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2.2 Product Description

Model: GX40 (referred to as the EUT in this report) is GSM900/1800/1900GPRS Phone.

The EUT has the function that Bluetooth wireless technology interface for establishing contact and transmitting data with certain devices.

Clock frequency(ies) in the system	:	13MHz
Equipment Type	:	Transceiver
Frequency band	:	Lower limit: 2402MHz Upper limit: 2480MHz
Bandwidth & Channel spacing	:	1MHz & 1MHz
Modulation	:	GFSK
Mode of Operation	:	Simplex
ITU code	:	F1D
Power Supply	:	DC3.9V (EUT input) DC2.8V (RF Module(BT) input)
Antenna Type	:	Internal Antenna
Antenna Connector Type	:	MM8430-2610RB3
Antenna Gain	:	0dBi

FCC 15.31 (e)

The stable voltage (DC3.9V) is provided to the EUT and it is converted to DC2.8V and then constantly supplied to RF module part. Therefore, this EUT complies with the requirement.

FCC Part 15.203 Antenna requirement

It is impossible for end users to replace the antenna, because the antenna is mounted inside of the EUT. Therefore, the equipment complies with the antenna requirement of Section 15.203.

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SECTION 3: Test specification, procedures & results

3.1 Test Specification

Test Specification : FCC Part15 Subpart C : 2005

Title : FCC 47CFR Part15 Radio Frequency Device Subpart C Intentional Radiators
Section 15.207 Conducted limits : 2005
Section 15.247 Operation within the bands 902-928MHz,
2400-2483.5MHz, and 5725-5850MHz : 2005

3.2 Procedures and results

No.	Item	Test Procedure	Specification	Remarks	Deviation	Worst Margin*0)	Results
1	Conducted emission	ANSI C63.4:2003 7. AC powerline conducted emission measurements	Section 15.207	-	N/A	4.1dB (0.32304Hz, AV, N)	Complied
2	Carrier Frequency Separation	ANSI C63.4:2003 13. Measurement of intentional radiators	Section 15.247(a)(1)	Conducted	N/A	*See data.	Complied
3	20dB Bandwidth	ANSI C63.4:2003 13. Measurement of intentional radiators	Section 15.247(a)(1)	Conducted	N/A		Complied
4	Number of Hopping Frequency	ANSI C63.4:2003 13. Measurement of intentional radiators	Section 15.247(a)(1)(iii)	Conducted	N/A		Complied
5	Dwell time	ANSI C63.4:2003 13. Measurement of intentional radiators	Section 15.247(a)(1)(iii)	Conducted	N/A		Complied
6	Maximum Peak Output Power	ANSI C63.4:2003 13. Measurement of intentional radiators	Section 15.247(b)(1)	Conducted	N/A		Complied
7	Band Edge Compliance	ANSI C63.4:2003 13. Measurement of intentional radiators	Section 15.247(d)	Conducted	N/A		Complied
8	Spurious Emission	ANSI C63.4:2003 13. Measurement of intentional radiators	Section 15.247(d)	Conducted/ Radiated	N/A	8.5dB (35.167MHz, QP, Ver.)	Complied

Note: UL Apex's EMI Work Procedures No.QPM05 and QPM15.

*0) The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

Uncertainty:

Conducted Emission

The measurement uncertainty (with a 95% confidence level) for this test is $\pm 1.3\text{dB}$.

The data listed in this test report has enough margin, more than the site margin.

Spurious Emission (Radiated)

The measurement uncertainty (with a 95% confidence level) for this test using Biconical antenna is $\pm 4.5\text{dB}(3\text{m})/\pm 4.7\text{dB}(10\text{m})$.

The measurement uncertainty (with a 95% confidence level) for this test using Logperiodic antenna is $\pm 5.2\text{dB}(3\text{m})/\pm 3.8\text{dB}(10\text{m})$.

The measurement uncertainty (with a 95% confidence level) for this test using Horn antenna is $\pm 6.6\text{dB}$.

The data listed in this test report has enough margin, more than the site margin.

Other test except Conducted Emission and Spurious Emission (Radiated)

The measurement uncertainty (with a 95% confidence level) for this test is $\pm 3.0\text{dB}$.

The data listed in this test report has enough margin, more than the site margin.

*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.

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3.3 Addition to standards

No.	Item	Test Procedure	Specification	Remarks	Deviation	Worst margin	Results
1	99% Occupied Band Width	RSS-210(issue 5): 2001 + Amendment:2002 + Amendment2:2003 + Amendment3:2004 + Amendment4: 2004	RSS-210(issue 5): 2001 + Amendment:2002 + Amendment2:2003 + Amendment3:2004 + Amendment4: 2004	Conducted	N/A	N/A	N/A

3.4 Test Location

UL Apex Co., Ltd. Head Office EMC Lab. *NVLAP Lab. code: 200572-0
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	FCC Registration Number	IC Registration Number	Width x Depth x Height (m)	Size of reference ground plane (m) / horizontal conducting plane	Other rooms
No.1 semi-anechoic chamber	313583	IC4247A	19.2 x 11.2 x 7.7m	7.0 x 6.0m	Preparation room
No.2 semi-anechoic chamber	846015	IC4247A-2	7.5 x 5.8 x 5.2m	4.0 x 4.0m	-
No.3 shielded room	-	-	4.7 x 7.5 x 2.7m	4.7 x 7.5m	-
No.4 measurement room	-	-	3.1 x 5.0 x 2.7m	N/A	-

* Size of vertical conducting plane (for Conducted Emission test) : 2.0 x 2.0m for No.1 and No.2 semi-anechoic and No.3 shielded room.

3.5 Test set up, Test instruments and Data of EMI

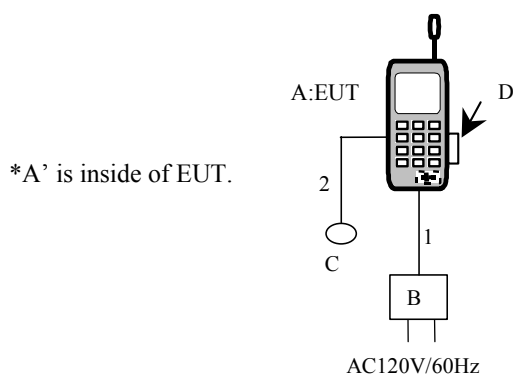
Refer to APPENDIX 1 to 3.

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

4.1 Operating Modes

The mode is used : Transmitting mode (PRBS9/Packet size DH5)
Low Channel :2402MHz
Mid Channel :2441MHz
High Channel :2480MHz
Inquiry

4.2 Configuration and peripherals



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

Description of EUT and Support equipment

No.	Item	Model number	Serial number	Manufacturer	FCC ID
A	GSM900/1800/1900GPRS Phone	GX40	004400/01/630096/2 for Antenna Terminal 004400/01/630097/0 for Radiated Emission and Conducted Emission	Sharp Corporation	APYHRO00042
A'	Rechargeable Lithium-Ion Battery	XN-1BT30	-	SANYO	-
B	AC Charger	XN-1QC43	-	HOSIDEN	-
C	Stereo Hands-free Kit	RPHOHA01 1AF01	-	HOSIDEN	-
D	miniSD Memory Card	UIMC-A017AFZZ	-	SanDisk	-

List of cables used

No.	Name	Length (m)	Shield	Backshell Material
1	AC Charger Cable	1.8	N	Polyvinyl chloride
2	Stereo Hands-free kit	1.46	Y	Polyvinyl chloride

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SECTION 5: Conducted Emission

Test Procedure and conditions

EUT was placed on a platform of nominal size, 1m by 0.5m, 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 a Line Impedance Stabilization Network (LISN)/ Artificial mains Network (AMN) and excess AC cable was bundled in center.

For the tests on EUT itself (as a stand alone equipment)

Each EUT current-carrying power lead, except the ground (safety) lead, was individually connected through a LISN /(AMN) to the input power source. All unused 50ohm connectors of the LISN(AMN) were resistivity terminated in 50ohm when not connected to the measuring equipment.

The AC Mains Terminal Continuous disturbance Voltage has been measured with the EUT in a Semi Anechoic Chamber or a Measurement Room.

The EUT was connected to a LISN (AMN).

An overview sweep with peak detection has been performed.

Detector	: CISPR quasi-peak and average detector (IF BW 9 kHz)
Measurement range	: 0.15-30MHz
Test data	: APPENDIX 3
Test result	: Pass

SECTION 6: Carrier Frequency Separation

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: Bandwidth

Test Procedure

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

Test data	: APPENDIX 3
Test result	: Pass

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SECTION 8: Number of Hopping Frequency

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

SECTION 9: Dwell time

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

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

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SECTION 11: Spurious Emission

[Radiated]

Test Procedure

EUT was placed on a platform of nominal size, 1.0m by 0.5m, raised 80cm above the conducting ground plane. The Radiated Electric Field Strength intensity has been measured in a Semi Anechoic Chamber with a ground plane and at a distance of 3m(Below 10GHz) and 1m(Upper 10GHz).

The height of the measuring varied between 1 and 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 with the Test Receiver, or the Spectrum Analyzer (in linear mode).

The test was made with the detector (RBW/VBW) in the following table.

When using Spectrum analyzer, the test was made with adjusting span to zero by using peak hold.

In any 100kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator confirmed 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on a radiated measurement.

20dBc was applied to the frequency over the limit of FCC 15.209 and outside the restricted band of 15.205.

Frequency	Below 1GHz	Above 1GHz
Instrument used	Test Receiver / Spectrum Analyzer	Spectrum Analyzer
Detector	QP: BW 120kHz(T/R)	PK: RBW:1MHz/VBW: 1MHz
IF Bandwidth	20dBc : RBW: 100kHz VBW: 300kHz (S/A)	AV: RBW:1MHz/VBW:10Hz 20dBc : RBW:100kHz/VBW:300kHz

- The carrier level and noise levels were confirmed at each position of X, Y and Z axes of EUT to see the position of maximum noise, and the test was made at the position that has the maximum noise.

Test data : APPENDIX 3

Test result : Pass

[Conducted]

Test Procedure

The Out of Band Emission was measured with a spectrum analyzer connected to the antenna port.

Test data : APPENDIX 3

Test result : Pass

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APPENDIX 1: Photographs of test setup

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APPENDIX 2:Test instruments

EMI test equipment

Control No.	Instrument	Manufacturer	Model No	Test Item	Calibration Date * Interval(month)
MRENT-20	Spectrum Analyzer	Advantest	R3273	AT	2005/08/19 * 12
MAT-23	Attenuator(10dB)(above1GHz)	Orient Microwave	BX10-0476-00	AT	2005/03/16 * 12
MAEC-01	Anechoic Chamber	TDK	Semi Anechoic Chamber 10m	RE / CE	2004/11/13 * 12
MTR-01	Test Receiver	Rohde & Schwarz	ESI40	RE / CE	2004/11/12 * 12
MCC-05	Microwave Cable 1G-50GHz	Storm	421-011 (90- 1394-079)	RE	2005/01/05 * 12
MPA-01	Pre Amplifier	Agilent	8449B	RE	2005/02/05 * 12
MCC-18	Microwave Cable 1G-26.5GHz	Suhner	SUCOFLEX 104	RE	2005/02/03 * 12
MHA-05	Horn Antenna	Schwarzbeck	BBHA9120D	RE	2005/01/10 * 12
MHA-01	Horn Antenna	EMCO	3160-09	RE	2005/01/10 * 12
MCC-01	Coaxial Cable 0.1- 3000MHz	Suhner/storm/Agil ent/TSJ	-	RE	2004/12/19 * 12
MPA-04	Pre Amplifier	Agilent	8447D	RE	2005/05/24 * 12
MAT-06	Attenuator(6dB)	Weinschel Corp	2	RE	2004/12/16 * 12
MBA-01	Biconical Antenna	Schwarzbeck	BBA9106	RE	2004/10/14 * 12
MLA-01	Logperiodic Antenna	Schwarzbeck	USLP9143	RE	2004/10/14 * 12
MCC-03	Coaxial Cable	Fujikura/Suhner/A gilent/TSJ	-	CE	2004/12/24 * 12
MLS-03	LISN(AMN)	Schwarzbeck	NSLK8127	CE	2004/11/10 * 12

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

Test Item:

CE: Conducted emission

RE: Radiated emission,

AT: Antenna terminal disturbance voltage

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APPENDIX 3: Data of EMI test

Conducted Emission

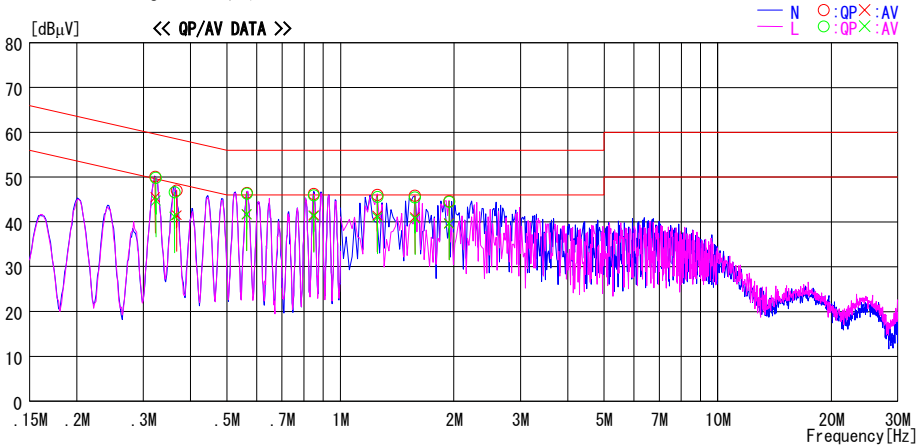
DATA OF CONDUCTED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2005/09/03 05:50:24

Applicant : Sharp Corporation
Kind of EUT : GSM900/1800/1900GPRS Phone
Model No. : GX40
Serial No. : IMEI: 004400/01/630097/0
Report No. : 25LE0090-HO
Power : DC3.9V (Adapter:AC120V)
Temp./Humi. : 23deg. C / 60%
Operator : Kenichi Adachi

Mode / Remarks : Bluetooth Tx2402MHz DH5

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



Frequency	Reading Level		Corr.	Results		Limit		Margin		Phase
	QP	AV		QP	AV	QP	AV	QP	AV	
[MHz]	[dBμV]	[dBμV]	[dB]	[dBμV]	[dBμV]	[dBμV]	[dBμV]	[dBμV]	[dBμV]	
0.32304	49.7	45.1	0.4	50.1	45.5	59.6	49.6	9.5	4.1	N
0.36806	46.7	41.2	0.3	47.0	41.5	58.5	48.5	11.5	7.0	N
0.56444	45.9	41.1	0.6	46.5	41.7	56.0	46.0	9.5	4.3	N
0.84889	45.6	40.9	0.6	46.2	41.5	56.0	46.0	9.8	4.5	N
1.25199	45.5	40.9	0.5	46.0	41.4	56.0	46.0	10.0	4.6	N
1.57524	45.2	40.4	0.6	45.8	41.0	56.0	46.0	10.2	5.0	N
0.32416	49.4	44.3	0.4	49.8	44.7	59.6	49.6	9.8	4.9	L
0.36319	46.3	40.9	0.3	46.6	41.2	58.7	48.7	12.1	7.5	L
0.56449	45.7	41.1	0.6	46.3	41.7	56.0	46.0	9.7	4.3	L
0.84892	45.3	40.7	0.6	45.9	41.3	56.0	46.0	10.1	4.7	L
1.25339	45.1	40.5	0.5	45.6	41.0	56.0	46.0	10.4	5.0	L
1.57638	44.9	40.1	0.6	45.5	40.7	56.0	46.0	10.5	5.3	L
1.94013	43.9	39.0	0.6	44.5	39.6	56.0	46.0	11.5	6.4	L
1.94013	44.0	39.1	0.6	44.6	39.7	56.0	46.0	11.4	6.3	N

CHART:WITH FACTOR,Peak hold data.Data is uncorrected. CALCURATION:RESULT=READING+C. F (L1SN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

Conducted Emission
DATA OF CONDUCTED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2005/09/03 06:34:16

Applicant : Sharp Corporation
Kind of EUT : GSM900/1800/1900GPRS Phone
Model No. : GX40
Serial No. : IMEI: 004400/01/630097/0

Report No. : 25LE0090-HO
Power : DC3.9V (Adapter:AC120V)
Temp./Humi. : 23deg. C / 60%
Operator : Kenichi Adachi

Mode / Remarks : Bluetooth Tx2441MHz DH5

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

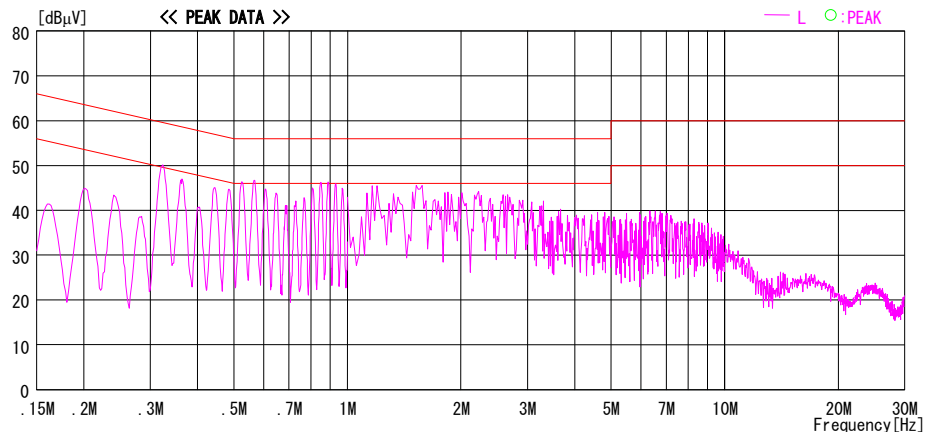
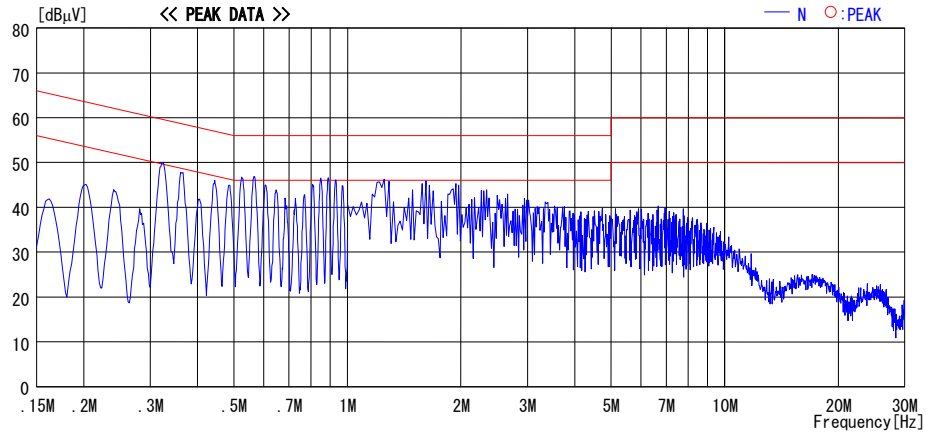


CHART:WITH FACTOR,Peak hold data.Data is uncorrected. CALCURATION:RESULT=READING+C. F (L1SN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

Conducted Emission

DATA OF CONDUCTED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2005/09/03 06:42:51

Applicant : Sharp Corporation
Kind of EUT : GSM900/1800/1900GPRS Phone
Model No. : GX40
Serial No. : IMEI: 004400/01/630097/0

Report No. : 25LE0090-HO
Power : DC3.9V (Adapter:AC120V)
Temp./Humi. : 23deg. C / 60%
Operator : Kenichi Adachi

Mode / Remarks : Bluetooth Tx2480MHz DH5

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

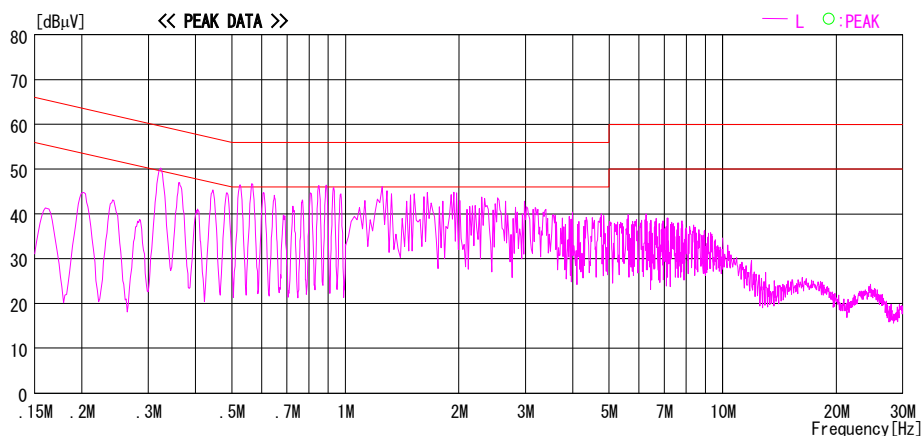
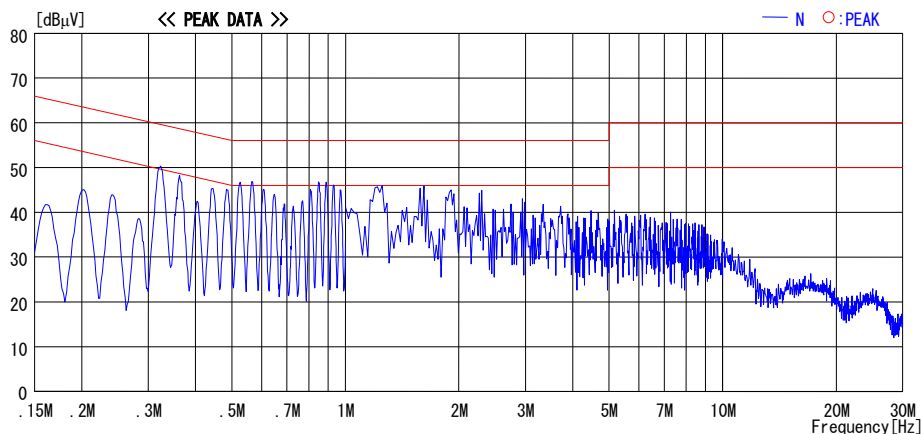


CHART: WITH FACTOR, Peak hold data. Data is uncorrected. CALCURATION: RESULT=READING+C. F (LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

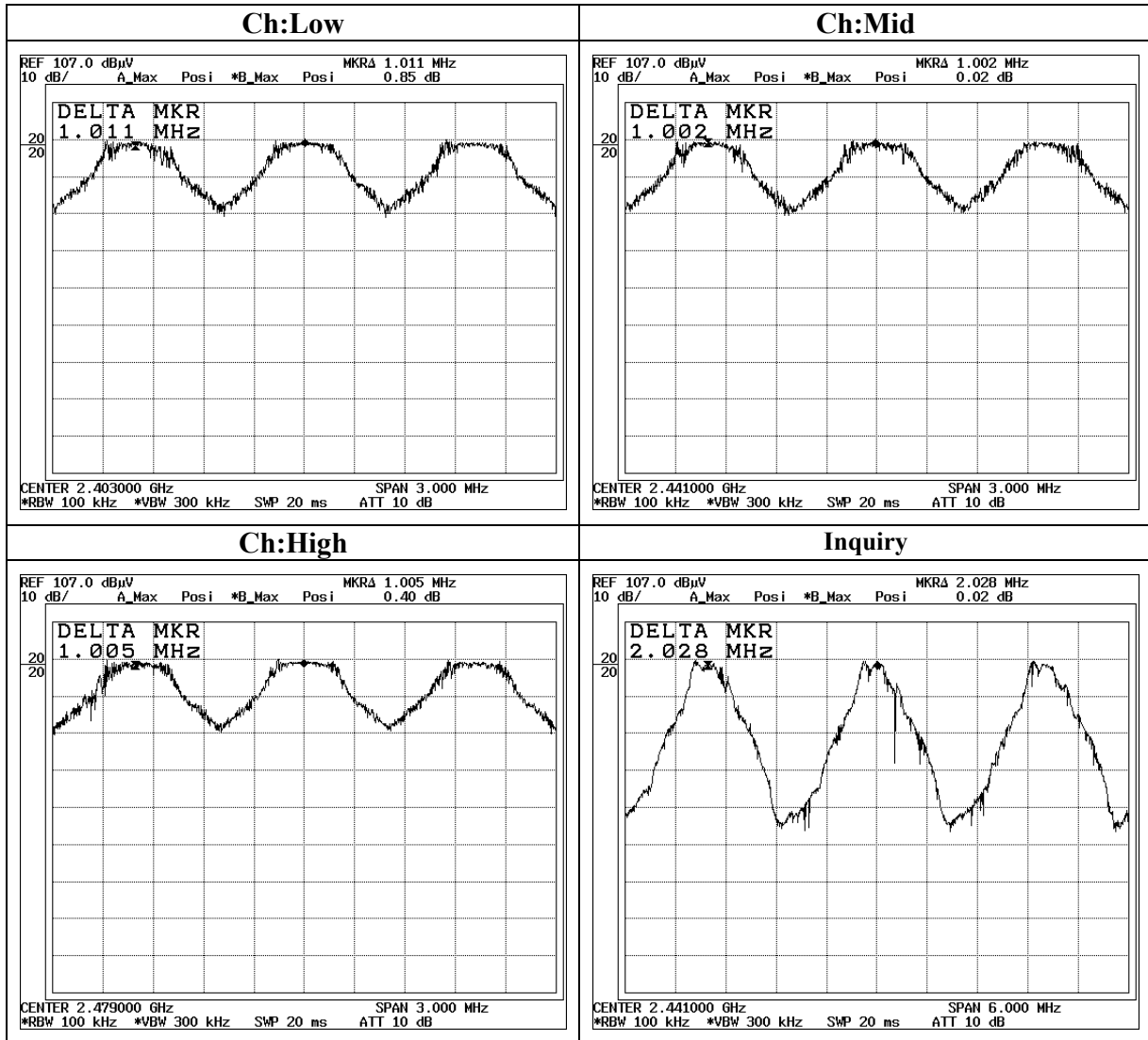
Carrier Frequency Separation

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

COMPANY	: SHARP	REGULATION	: Fcc Part15 Subpart C 15.247(a)(1)
EQUIPMENT	: GSM900/1800/1900GPRS phoi	TEST DISTANCE	: -
MODEL	: GX40	DATE	: 09/02/2005
S/ N	: 004400/01/630096/2	TEMPERATURE	: 23deg.C
POWER	: DC3.9V	HUMIDITY	: 61%
MODE	: Tx(Hopping on)/Inquiry	ENGINEER	: Takumi Shimada

Ch	Freq. [MHz]	Channel separation [MHz]	Limit
Low	2402.0	1.011	>20dB Bandwidth and 25[kHz]
Mid	2441.0	1.002	>20dB Bandwidth and 25[kHz]
High	2480.0	1.005	>20dB Bandwidth and 25[kHz]
Inquiry	2441.0	2.028	>20dB Bandwidth and 25[kHz]

Carrier Frequency Separation



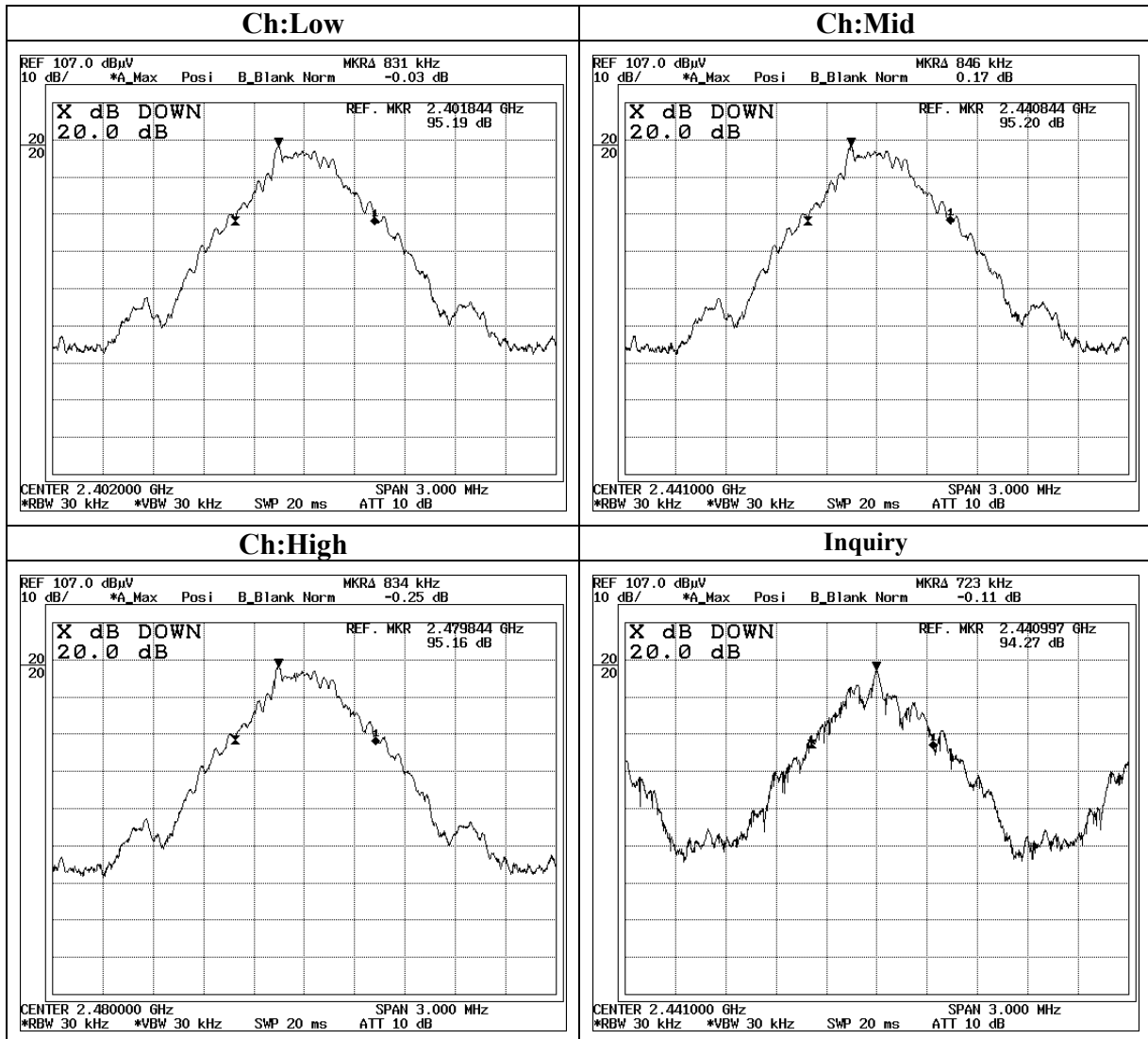
20dB Bandwidth

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Head Office EMC Lab. No.3 Shielded Room

COMPANY	: SHARP	REGULATION	: Fcc Part15 Subpart C 15.247(a)(1)
EQUIPMENT	: GSM900/1800/1900GPRS phone	TEST DISTANCE	: -
MODEL	: GX40	DATE	: 09/02/2005
S/ N	: 004400/01/630096/2	TEMPERATURE	: 23deg.C
POWER	: DC3.9V	HUMIDITY	: 61%
MODE	: Tx (Hopping off) /Inquiry	ENGINEER	: Takumi Shimada

Ch	Freq. [MHz]	20dB Bandwidth [MHz]	Limit [MHz]
Low	2402.0	0.831	-
Mid	2441.0	0.846	-
High	2480.0	0.834	-
Inquiry	2441.0	0.723	-

20dB Bandwidth



Number of Hopping Frequency

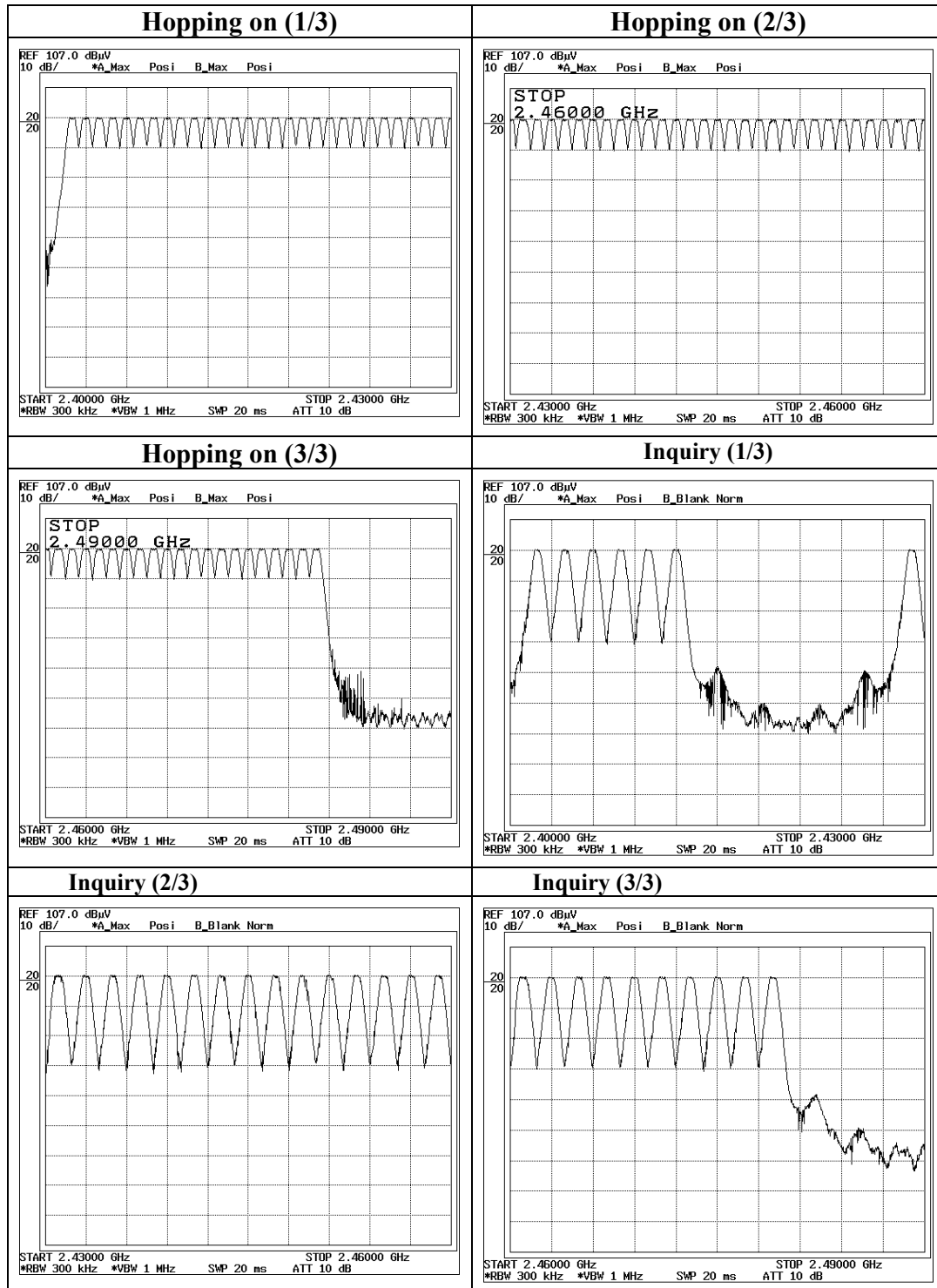
UL Apex Co., Ltd.
Head Office EMC Lab. No.3 Shielded Room

COMPANY : SHARP REGULATION : Fcc Part15 Subpart C 15.247(a)(1)(iii)
EQUIPMENT : GSM900/1800/1900GPRS phon TEST DISTANCE : -
MODEL : GX40 DATE : 09/02/2005
S/ N : 004400/01/630096/2 TEMPERATURE : 23deg.C
POWER : DC3.9V HUMIDITY : 61%
MODE : Tx (Hopping on) /Inquiry ENGINEER : Takumi Shimada

Mode	Number of channel [time]	Limit [time]
Tx(Hoppng on)	79	≥ 15

Mode	Number of channel [time]	Limit [time]
Inquiry	32	≥ 15

Number of Hopping Frequency



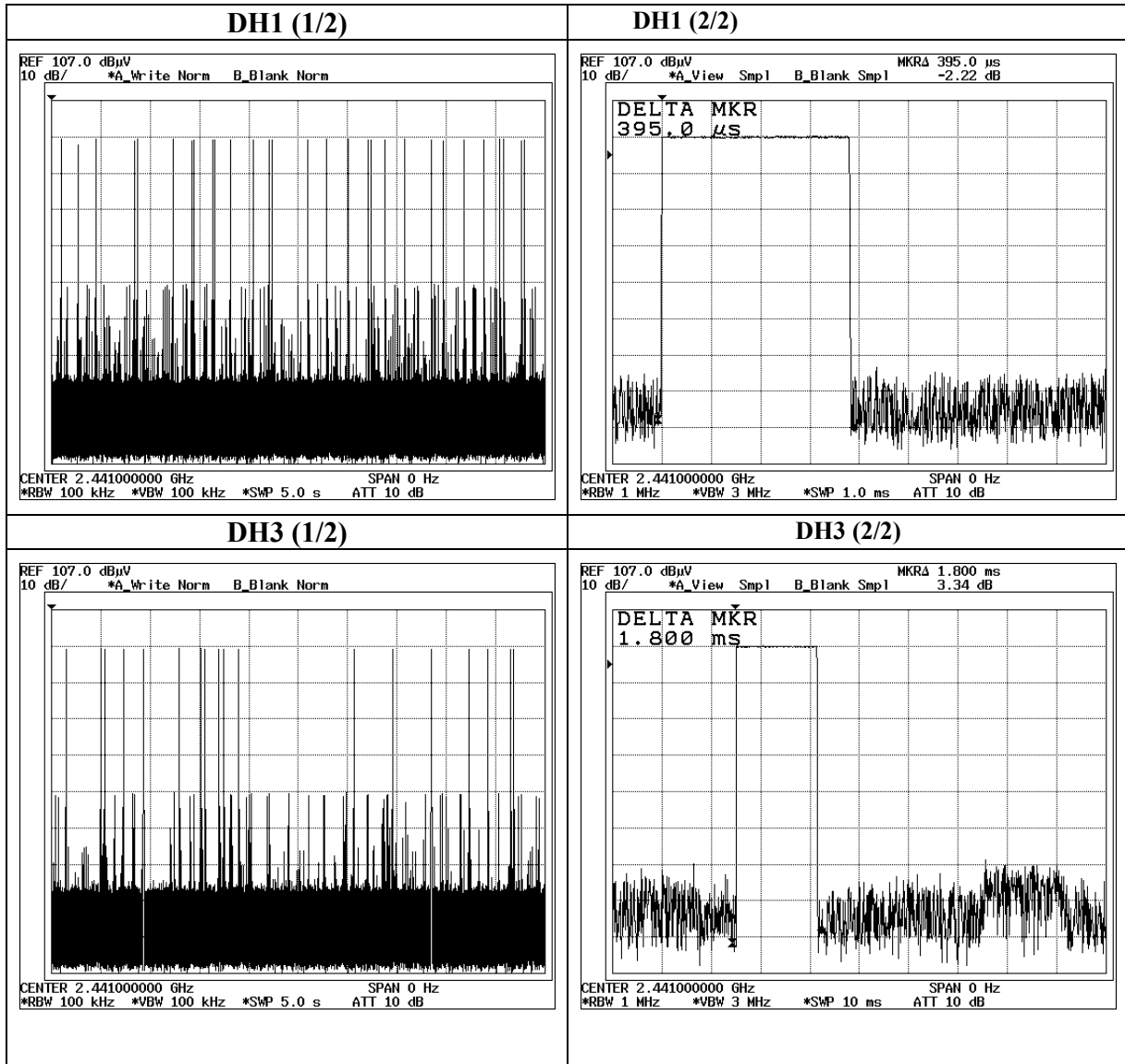
Dwell time

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

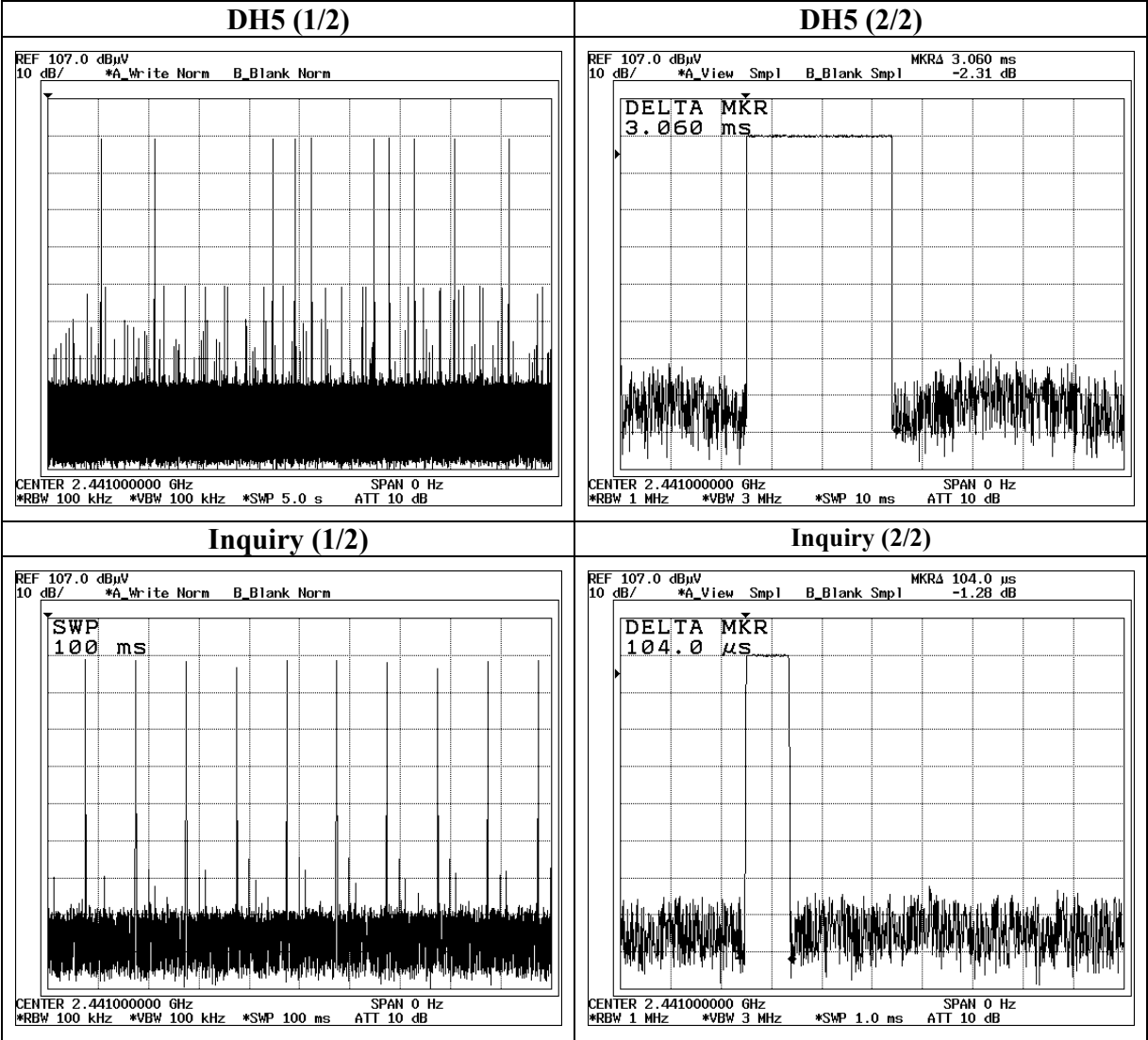
COMPANY	: SHARP	REGULATION	: Fcc Part15 Subpart C 15.247(a)(1)(iii)
EQUIPMENT	: GSM900/1800/1900GPRS phone	TEST DISTANCE	: -
MODEL	: GX40	DATE	: 09/02/2005
S/ N	: 004400/01/630096/2	TEMPERATURE	: 23deg.C
POWER	: DC3.9V	HUMIDITY	: 61%
MODE	: Tx (Hopping on) /Inquiry	ENGINEER	: Takumi Shimada

Mode	Number of transmission in a 31.6(79 Hopping x 0.4) / 12.8(32 Hopping x 0.4)second period	Length of transmission time [msec]	Result [msec]	Limit [msec]
DH1	29 times /5sec. x 31.6 = 183.28 times	0.395	72	400
DH3	18 times / 5sec. x 31.6 = 113.76 times	1.800	205	400
DH5	10 times / 5 sec. x 31.6 = 63 times	3.060	193	400
Inquiry	10 times / 0.1sec. x 12.8 = 1280 times	0.104	133	400

Dwell time



Dwell time



Maximum Peak Output Power

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

COMPANY	: SHARP	REGULATION	: Fcc Part15 Subpart C 15.247(b)(1)
EQUIPMENT	: GSM900/1800/1900GPRS phone	TEST DISTANCE	: -
MODEL	: GX40	DATE	: 09/02/2005
S/ N	: 004400/01/630096/2	TEMPERATURE	: 23deg.C
POWER	: DC 3.9 V	HUMIDITY	: 61%
MODE	: Tx(Hopping off)/Inquiry	ENGINEER	: Takumi Shimada

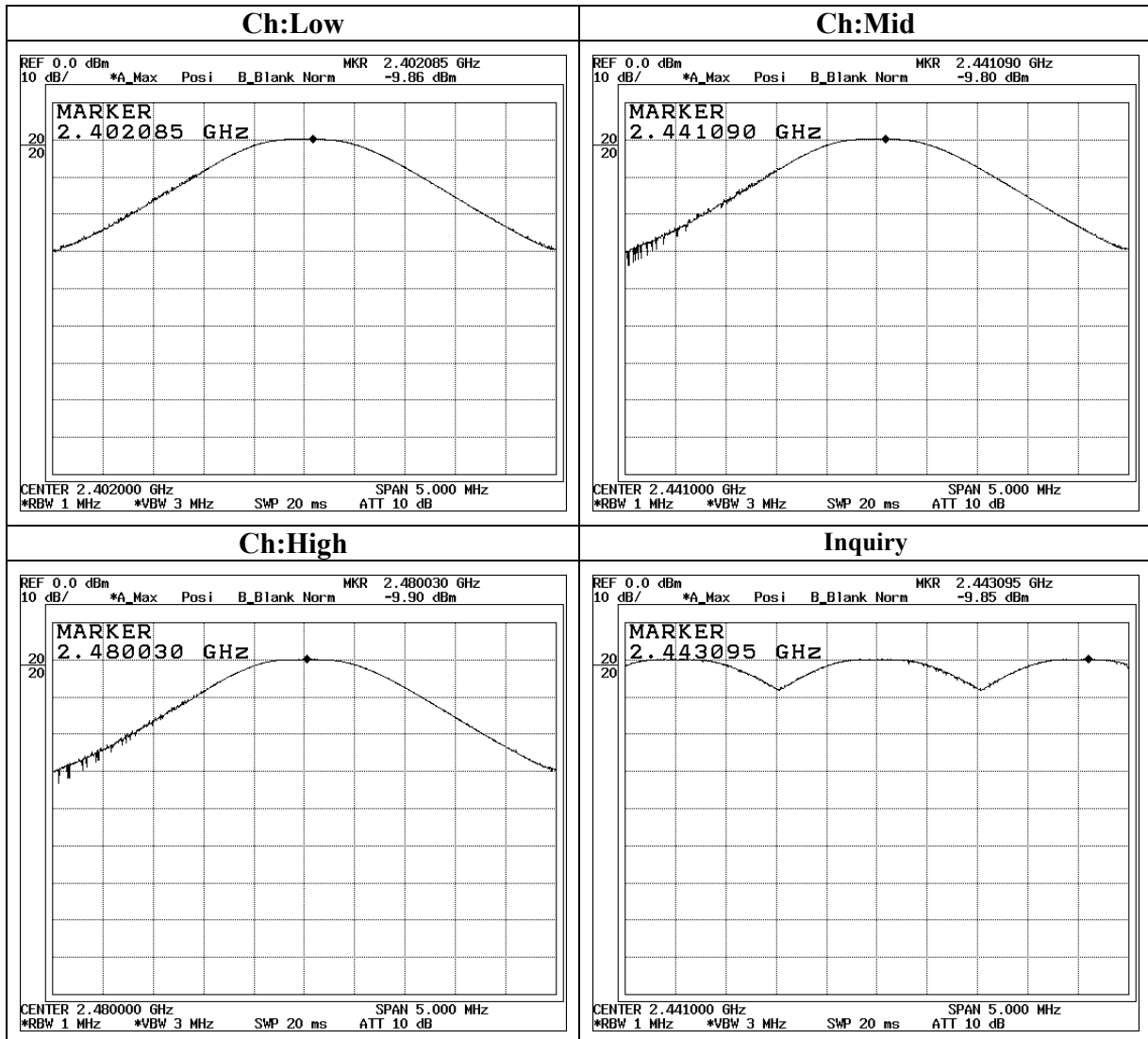
Ch	Freq. [MHz]	S/A Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Limit [dBm]	Margin [dB]
Low	2402.0	-9.86	0.47	10.70	1.31	20.96	19.65
Mid	2441.0	-9.80	0.47	10.70	1.37	20.96	19.59
High	2480.0	-9.90	0.47	10.70	1.27	20.96	19.69
Inquiry	2441.0	-9.85	0.47	10.70	1.32	20.96	19.64

Sample Calculation:

Result = Reading + Cable Loss (supplied by customer)+ Attenuator

* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.

Maximum Peak Output Power



Radiated Spurious Emission

* The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

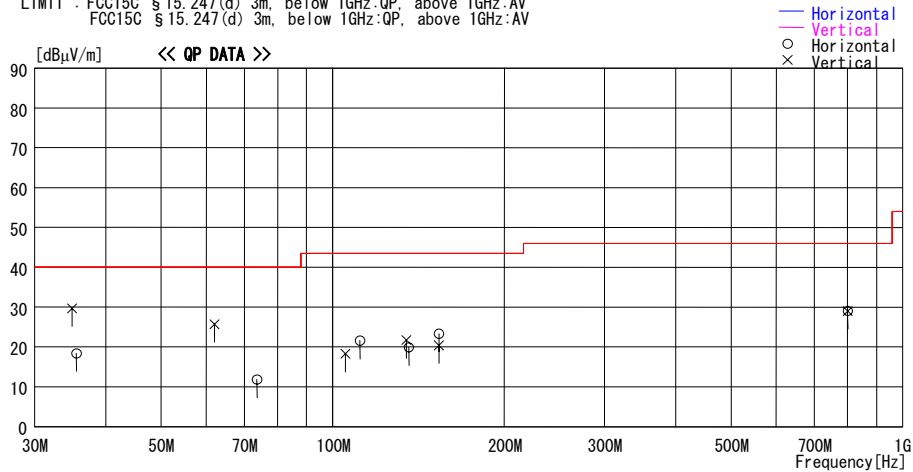
DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2005/09/03 04:57:33

Applicant : Sharp Corporation
Kind of EUT : GSM900/1800/1900GPRS Phone
Model No. : GX40
Serial No. : IMEI: 004400/01/630097/0
Report No. : 25LE0090-HO
Power : DC3.9V (Adapter:AC120V)
Temp./Humi. : 22deg.C / 60%
Operator : Kenichi Adachi

Mode / Remarks : Bluetooth Tx2402MHz DH5 / Max Axis (H: Z-axis, V: Z-axis)

LIMIT : FCC15C § 15.247(d) 3m, below 1GHz:QP, above 1GHz:AV
FCC15C § 15.247(d) 3m, below 1GHz:QP, above 1GHz:AV



Frequency	Reading	DET	Antenna		Level	Angle	Height	Polar.	Limit	Margin
			Factor	Loss& Gain						
[MHz]	[dBμV]		[dB/m]	[dB]	[dBμV/m]	[Deg]	[cm]		[dBμV/m]	[dB]
35.505	23.1	QP	16.3	-21.0	18.4	299	289	Hori.	40.0	21.6
34.906	34.1	QP	16.6	-21.0	29.7	246	100	Vert.	40.0	10.3
62.039	38.1	QP	8.1	-20.5	25.7	202	319	Vert.	40.0	14.3
73.615	25.2	QP	6.8	-20.2	11.8	270	238	Hori.	40.0	28.2
105.269	26.8	QP	11.0	-19.5	18.3	227	100	Vert.	43.5	25.2
111.697	29.2	QP	11.9	-19.5	21.6	297	267	Hori.	43.5	21.9
135.965	24.9	QP	14.1	-19.1	19.9	269	219	Hori.	43.5	23.6
134.623	26.8	QP	14.0	-19.1	21.7	243	100	Vert.	43.5	21.8
153.623	26.8	QP	15.3	-18.8	23.3	348	204	Hori.	43.5	20.2
153.624	23.9	QP	15.3	-18.8	20.4	255	100	Vert.	43.5	23.1
800.667	23.6	QP	21.2	-15.7	29.1	0	100	Hori.	46.0	16.9
800.667	23.5	QP	21.2	-15.7	29.0	0	100	Vert.	46.0	17.0

CHART:WITH FACTOR ANT TYPE : -30MHz LOOP, 30-300MHz BICONICAL, 300MHz-1000MHz LOGPERIODIC, 1000MHz- HORN
Except for the data below : adequate margin data below the limits.
CALCULATION : READING + ANT FACTOR + LOSS (CABLE+ATTEN.) - AMP. GAIN

Radiated Spurious Emission

* The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

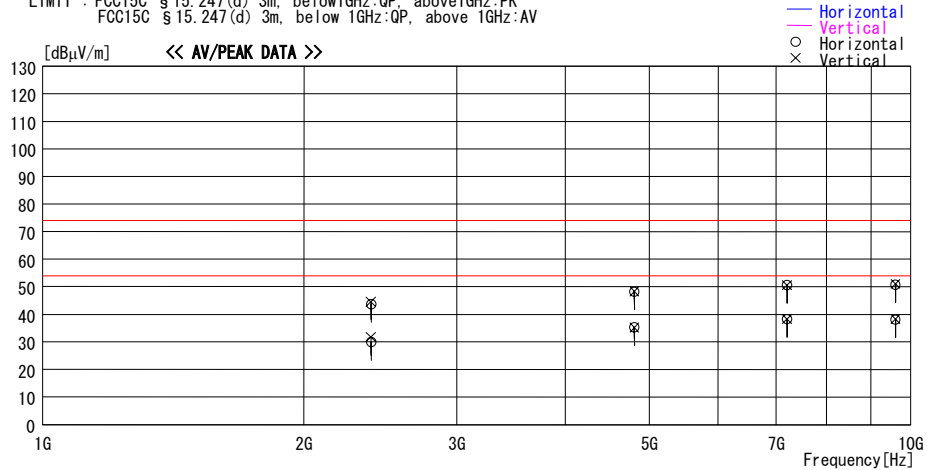
DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2005/09/02 21:09:59

Applicant : Sharp Corporation
Kind of EUT : GSM900/1800/1900GPRS Phone
Model No. : GX40
Serial No. : IMEI: 004400/01/630097/0
Report No. : 25LE0090-HO
Power : DC3.9V (Adapter:AC120V)
Temp./Humi. : 22deg.C / 60%
Operator : Kenichi Adachi

Mode / Remarks : Bluetooth Tx2402MHz DH5 / Max Axis (H: Z-axis, V: Z-axis)

LIMIT : FCC15C §15.247(d) 3m, below 1GHz:QP, above 1GHz:PK
FCC15C §15.247(d) 3m, below 1GHz:QP, above 1GHz:AV



Frequency	Reading	DET	Antenna	Loss&	Level	Angle	Height	Polar.	Limit	Margin
			Factor	Gain						
[MHz]	[dBμV]		[dB/m]	[dB]	[dBμV/m]	[Deg]	[cm]		[dBμV/m]	[dB]
2388.652	46.5	PK	30.9	-32.8	44.6	175	115	Vert.	74.0	29.4
2388.652	33.6	AV	30.9	-32.8	31.7	175	115	Vert.	54.0	22.3
2388.939	45.6	PK	30.9	-32.8	43.7	110	105	Hori.	74.0	30.3
2388.939	31.8	AV	30.9	-32.8	29.9	110	105	Hori.	54.0	24.1
4804.000	43.9	PK	34.9	-30.6	48.2	110	100	Hori.	74.0	25.8
4804.000	31.0	AV	34.9	-30.6	35.3	110	100	Hori.	54.0	18.7
4804.000	44.0	PK	34.9	-30.6	48.3	160	100	Vert.	74.0	25.7
4804.000	30.9	AV	34.9	-30.6	35.2	160	100	Vert.	54.0	18.8
7206.000	42.5	PK	37.6	-29.4	50.7	110	100	Hori.	74.0	23.3
7206.000	30.1	AV	37.6	-29.4	38.3	110	100	Hori.	54.0	15.7
7206.000	42.4	PK	37.6	-29.4	50.6	160	100	Vert.	74.0	23.4
7206.000	30.0	AV	37.6	-29.4	38.2	160	100	Vert.	54.0	15.8
9608.000	42.9	PK	36.3	-28.4	50.8	110	100	Hori.	74.0	23.2
9608.000	30.2	AV	36.3	-28.4	38.1	110	100	Hori.	54.0	15.9
9608.000	43.1	PK	36.3	-28.4	51.0	160	100	Vert.	74.0	23.0
9608.000	30.3	AV	36.3	-28.4	38.2	160	100	Vert.	54.0	15.8

CHART: WITH FACTOR ANT TYPE: -30MHz LOOP, 30-300MHz BICONICAL, 300MHz-1000MHz LOGPERIODIC, 1000MHz- HORN
Except for the data below : adequate margin data below the limits.
CALCULATION : READING + ANT FACTOR + LOSS (CABLE+ATTEN.) - AMP. GAIN

Radiated Spurious Emission

DATA OF SPURIOUS EMISSIONS(1GHz to 10GHz) (20dBc)

UL Apex Co., Ltd.
Head Office EMC Lab. No.1 Semi Anechoic Chamber

Company	: Sharp Corporation	REPORT NO	: 25LE0090-HO
Equipment	: GSM900/1800/1900GPRS Phone	REGULATION	: Fcc Part15 Subpart C 15.247(d)
Model	: GX40	TEST DISTANCE	: 3m
Sample No.	: IMEI: 004400/01/630097/0	DATE	: 09/02/2005
Power	: DC 3.9V (AC adapter input: AC120V/60Hz)	TEMPERATURE	: 21deg.C
Mode	: Bluetooth, Tx: 2402MHz	HUMIDITY	: 60%
Remarks	: EUT-max-axis (Hor.: Z, Ver.: Z)	ENGINEER	: Kenichi Adachi

20dBc(Fundamental 2402MHz) (RBW: 100kHz, VBW: 300kHz)

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATT or Filter Loss [dB]	RESULT		Limit 20dBc [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]			[dB]	[dB]
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2401.9	91.8	93.2	30.9	36.4	3.6	0.0	89.9	91.3	-	-	-
2	2400.0	41.0	41.3	30.9	36.4	3.7	0.0	39.2	39.5	Funda-20dB	30.7	31.8

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

*The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

*Hi-Pass Filter was not used for factor 0.0dB of the above table.

Radiated Spurious Emission

* The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2005/09/03 01:32:48

Applicant : Sharp Corporation Report No. : 25LE0090-HO
Kind of EUT : GSM900/1800/1900GPRS Phone Power : DC3.9V (Adapter:AC120V)
Model No. : GX40 Temp./Humi. : 22deg. C / 60%
Serial No. : IMEI: 004400/01/630097/0 Operator : Kenichi Adachi

Mode / Remarks : Bluetooth Tx2402MHz DH5 / Max Axis (H: Z-axis, V: Z-axis)

LIMIT : FCC15C § 15.247(d) 3m, below 1GHz:QP, above 1GHz:PK
FCC15C § 15.247(d) 3m, below 1GHz:QP, above 1GHz:AV

Frequency [MHz]	Reading [dBuV]	DET	Antenna		Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV/m]	Margin [dB]
			Factor [dB/m]	Loss& Gain [dB]						
12010.000	44.5	PK	41.4	-36.1	49.8	0	100	Hori.	74.0	24.2
12010.000	30.1	AV	41.4	-36.1	35.4	0	100	Hori.	54.0	18.6
12010.000	44.4	PK	41.4	-36.1	49.7	0	100	Vert.	74.0	24.3
12010.000	30.0	AV	41.4	-36.1	35.3	0	100	Vert.	54.0	18.7
14412.000	43.4	PK	41.7	-33.6	51.5	0	100	Hori.	74.0	22.5
14412.000	29.7	AV	41.7	-33.6	37.8	0	100	Hori.	54.0	16.2
14412.000	43.5	PK	41.7	-33.6	51.6	0	100	Vert.	74.0	22.4
14412.000	29.7	AV	41.7	-33.6	37.8	0	100	Vert.	54.0	16.2
16814.000	43.6	PK	44.7	-32.9	55.4	0	100	Hori.	74.0	18.6
16814.000	29.6	AV	44.7	-32.9	41.4	0	100	Hori.	54.0	12.6
16814.000	43.4	PK	44.7	-32.9	55.2	0	100	Vert.	74.0	18.8
16814.000	29.5	AV	44.7	-32.9	41.3	0	100	Vert.	54.0	12.7
19216.000	42.6	PK	41.7	-30.5	53.8	0	100	Hori.	74.0	20.2
19216.000	29.7	AV	41.7	-30.5	40.9	0	100	Hori.	54.0	13.1
19216.000	42.4	PK	41.7	-30.5	53.6	0	100	Vert.	74.0	20.4
19216.000	29.6	AV	41.7	-30.5	40.8	0	100	Vert.	54.0	13.2
21618.000	44.2	PK	40.4	-31.2	53.4	0	100	Hori.	74.0	20.6
21618.000	30.5	AV	40.4	-31.2	39.7	0	100	Hori.	54.0	14.3
21618.000	44.1	PK	40.4	-31.2	53.3	0	100	Vert.	74.0	20.7
21618.000	30.5	AV	40.4	-31.2	39.7	0	100	Vert.	54.0	14.3
24020.000	43.9	PK	41.0	-30.2	54.7	0	100	Hori.	74.0	19.3
24020.000	30.7	AV	41.0	-30.2	41.5	0	100	Hori.	54.0	12.5
24020.000	43.8	PK	41.0	-30.2	54.6	0	100	Vert.	74.0	19.4
24020.000	30.6	AV	41.0	-30.2	41.4	0	100	Vert.	54.0	12.6

CHART:WITH FACTOR ANT TYPE : -30MHz LOOP, 30-300MHz BICONICAL, 300MHz-1000MHz LOGPERIODIC, 1000MHz- HORN
Except for the data below : adequate margin data below the limits.
CALCULATION : READING + ANT FACTOR + LOSS (CABLE+ATTEN.) - AMP. GAIN

Radiated Spurious Emission

* The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

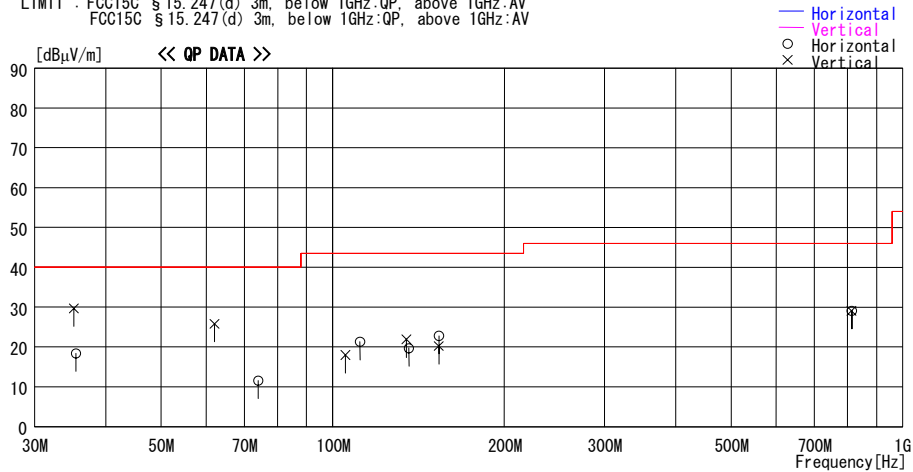
DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2005/09/03 04:31:05

Applicant : Sharp Corporation
Kind of EUT : GSM900/1800/1900GPRS Phone
Model No. : GX40
Serial No. : IMEI: 004400/01/630097/0
Report No. : 25LE0090-HO
Power : DC3.9V (Adapter:AC120V)
Temp./Humi. : 22deg.C / 60%
Operator : Kenichi Adachi

Mode / Remarks : Bluetooth Tx2441MHz DH5 / Max Axis (H: Z-axis, V: Z-axis)

LIMIT : FCC15C § 15.247(d) 3m, below 1GHz:QP, above 1GHz:AV
FCC15C § 15.247(d) 3m, below 1GHz:QP, above 1GHz:AV



Frequency	Reading	DET	Antenna		Level	Angle	Height	Polar.	Limit	Margin
			Factor	Loss& Gain						
[MHz]	[dBμV]		[dB/m]	[dB]	[dBμV/m]	[Deg]	[cm]		[dBμV/m]	[dB]
35.445	23.1	QP	16.3	-21.0	18.4	278	294	Hori.	40.0	21.6
35.159	34.2	QP	16.5	-21.0	29.7	225	100	Vert.	40.0	10.3
74.052	25.0	QP	6.8	-20.2	11.6	105	248	Hori.	40.0	28.4
62.039	38.2	QP	8.1	-20.5	25.8	157	318	Vert.	40.0	14.2
105.275	26.5	QP	11.0	-19.5	18.0	71	100	Vert.	43.5	25.5
111.699	28.9	QP	11.9	-19.5	21.3	275	285	Hori.	43.5	22.2
135.967	24.7	QP	14.1	-19.1	19.7	287	217	Hori.	43.5	23.8
134.612	27.0	QP	14.0	-19.1	21.9	248	100	Vert.	43.5	21.6
153.610	23.7	QP	15.3	-18.8	20.2	257	100	Vert.	43.5	23.3
153.610	26.3	QP	15.3	-18.8	22.8	347	200	Hori.	43.5	20.7
814.000	23.5	QP	21.2	-15.6	29.1	0	100	Vert.	46.0	16.9
814.000	23.5	QP	21.2	-15.6	29.1	0	100	Hori.	46.0	16.9

CHART:WITH FACTOR ANT TYPE : -30MHz LOOP, 30-300MHz BICONICAL, 300MHz-1000MHz LOGPERIODIC, 1000MHz- HORN
Except for the data below : adequate margin data below the limits.
CALCULATION : READING + ANT FACTOR + LOSS (CABLE+ATTEN.) - AMP. GAIN

Radiated Spurious Emission

* The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

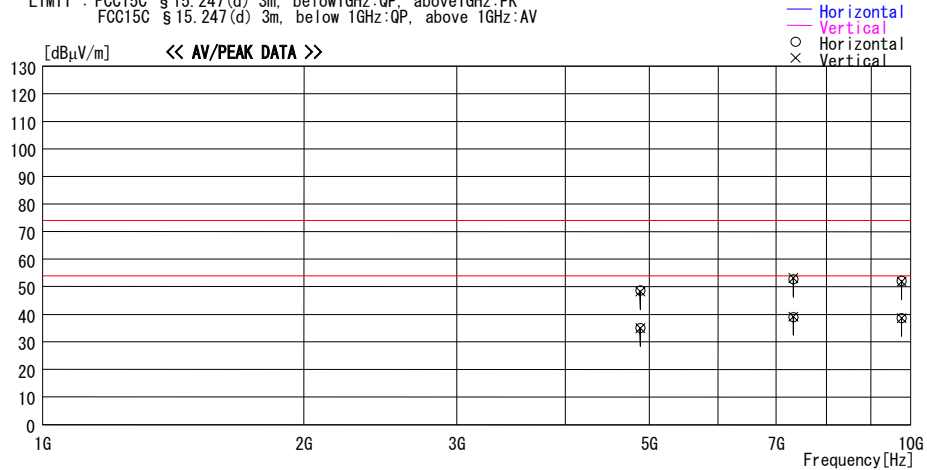
DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2005/09/02 22:24:58

Applicant : Sharp Corporation
Kind of EUT : GSM900/1800/1900GPRS Phone
Model No. : GX40
Serial No. : IMEI: 004400/01/630097/0
Report No. : 25LE0090-HO
Power : DC3.9V (Adapter:AC120V)
Temp./Humi. : 22deg.C / 60%
Operator : Kenichi Adachi

Mode / Remarks : Bluetooth Tx2441MHz DH5 / Max Axis (H: Z-axis, V: Z-axis)

LIMIT : FCC15C § 15.247(d) 3m, below 1GHz:QP, above 1GHz:PK
FCC15C § 15.247(d) 3m, below 1GHz:QP, above 1GHz:AV



Frequency	Reading	DET	Antenna Factor	Loss & Gain	Level	Angle	Height	Polar.	Limit	Margin
[MHz]	[dBμV]		[dB/m]	[dB]	[dBμV/m]	[Deg]	[cm]		[dBμV/m]	[dB]
4882.000	43.8	PK	35.4	-30.6	48.6	110	110	Hori.	74.0	25.4
4882.000	30.2	AV	35.4	-30.6	35.0	110	110	Hori.	54.0	19.0
4882.000	43.4	PK	35.4	-30.6	48.2	160	105	Vert.	74.0	25.8
4882.000	30.1	AV	35.4	-30.6	34.9	160	105	Vert.	54.0	19.1
7323.000	44.2	PK	37.8	-29.3	52.7	110	110	Hori.	74.0	21.3
7323.000	30.5	AV	37.8	-29.3	39.0	110	110	Hori.	54.0	15.0
7323.000	44.6	PK	37.8	-29.3	53.1	160	110	Vert.	74.0	20.9
7323.000	30.6	AV	37.8	-29.3	39.1	160	110	Vert.	54.0	15.0
9764.000	44.2	PK	36.2	-28.2	52.2	110	110	Hori.	74.0	21.8
9764.000	30.6	AV	36.2	-28.2	38.6	110	110	Hori.	54.0	15.4
9764.000	43.8	PK	36.2	-28.2	51.8	160	110	Vert.	74.0	22.2
9764.000	30.6	AV	36.2	-28.2	38.6	160	110	Vert.	54.0	15.4

CHART: WITH FACTOR ANT TYPE : -30MHz LOOP, 30-300MHz BICONICAL, 300MHz-1000MHz LOGPERIODIC, 1000MHz- HORN
Except for the data below : adequate margin data below the limits.
CALCULATION : READING + ANT FACTOR + LOSS (CABLE+ATTEN.) - AMP. GAIN

Radiated Spurious Emission

* The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2005/09/03 02:03:48

Applicant : Sharp Corporation
Kind of EUT : GSM900/1800/1900GPRS Phone
Model No. : GX40
Serial No. : IMEI: 004400/01/630097/0
Report No. : 25LE0090-HO
Power : DC3.9V (Adapter:AC120V)
Temp./Humi. : 22deg.C / 60%
Operator : Kenichi Adachi

Mode / Remarks : Bluetooth Tx2441MHz DH5 / Max Axis (H: Z-axis, V: Z-axis)

LIMIT : FCC15C §15.247(d) 3m, below1GHz:QP, above1GHz:PK
FCC15C §15.247(d) 3m, below 1GHz:QP, above 1GHz:AV

Frequency [MHz]	Reading [dBuV]	DET	Antenna		Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit	
			Factor [dB/m]	Loss& Gain [dB]					[dBuV/m]	Margin [dB]
12205.000	43.8	PK	41.5	-36.0	49.3	0	100	Hori.	74.0	24.7
12205.000	30.2	AV	41.5	-36.0	35.7	0	100	Hori.	54.0	18.3
12205.000	43.9	PK	41.5	-36.0	49.4	0	100	Vert.	74.0	24.6
12205.000	30.3	AV	41.5	-36.0	35.8	0	100	Vert.	54.0	18.2
14646.000	43.6	PK	42.2	-34.1	51.7	0	100	Hori.	74.0	22.3
14646.000	29.9	AV	42.2	-34.1	38.0	0	100	Hori.	54.0	16.0
14646.000	43.5	PK	42.2	-34.1	51.6	0	100	Vert.	74.0	22.4
14646.000	29.8	AV	42.2	-34.1	37.9	0	100	Vert.	54.0	16.1
17087.000	42.6	PK	44.5	-32.6	54.5	0	100	Hori.	74.0	19.5
17087.000	29.1	AV	44.5	-32.6	41.0	0	100	Hori.	54.0	13.0
17087.000	42.7	PK	44.5	-32.6	54.6	0	100	Vert.	74.0	19.4
17087.000	29.3	AV	44.5	-32.6	41.2	0	100	Vert.	54.0	12.8
19528.000	42.2	PK	41.4	-30.5	53.1	0	100	Hori.	74.0	20.9
19528.000	29.4	AV	41.4	-30.5	40.3	0	100	Hori.	54.0	13.7
19528.000	42.3	PK	41.4	-30.5	53.2	0	100	Vert.	74.0	20.8
19528.000	29.5	AV	41.4	-30.5	40.4	0	100	Vert.	54.0	13.6
21969.000	45.4	PK	40.5	-30.8	55.1	0	100	Hori.	74.0	18.9
21969.000	32.1	AV	40.5	-30.8	41.8	0	100	Hori.	54.0	12.2
21969.000	45.3	PK	40.5	-30.8	55.0	0	100	Vert.	74.0	19.0
21969.000	32.1	AV	40.5	-30.8	41.8	0	100	Vert.	54.0	12.2
24410.000	45.0	PK	41.1	-30.5	55.6	0	100	Hori.	74.0	18.4
24410.000	30.6	AV	41.1	-30.5	41.2	0	100	Hori.	54.0	12.8
24410.000	44.1	PK	41.1	-30.5	54.7	0	100	Vert.	74.0	19.3
24410.000	30.6	AV	41.1	-30.5	41.2	0	100	Vert.	54.0	12.8

CHART:WITH FACTOR ANT TYPE : -30MHz LOOP, 30-300MHz BICONICAL, 300MHz-1000MHz LOGPERIODIC, 1000MHz- HORN
Except for the data below : adequate margin data below the limits.
CALCULATION : READING + ANT FACTOR + LOSS(CABLE+ATTEN.) - AMP. GAIN

Radiated Spurious Emission

* The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

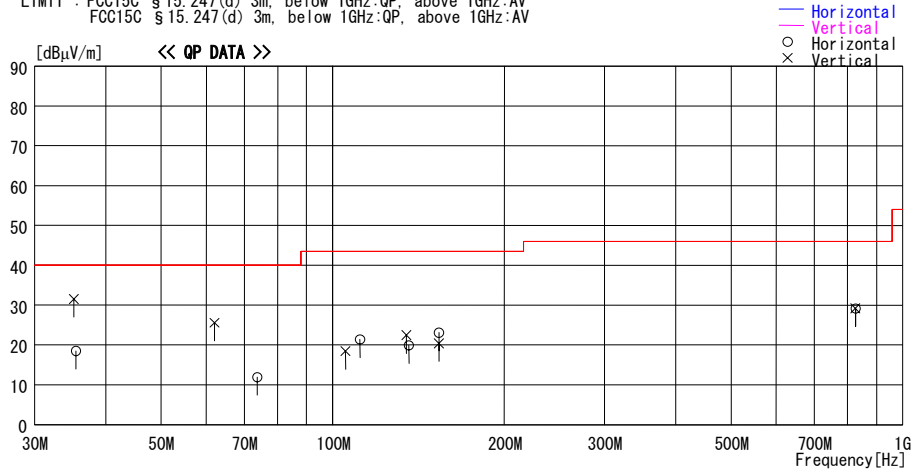
DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2005/09/03 03:26:28

Applicant : Sharp Corporation
Kind of EUT : GSM900/1800/1900GPRS Phone
Model No. : GX40
Serial No. : IMEI: 004400/01/630097/0
Report No. : 25LE0090-HO
Power : DC3.9V (Adapter:AC120V)
Temp./Humi. : 22deg.C / 60%
Operator : Kenichi Adachi

Mode / Remarks : Bluetooth Tx2480MHz DH5 / Max Axis (H: Z-axis, V: Z-axis)

LIMIT : FCC15C § 15.247(d) 3m, below 1GHz:QP, above 1GHz:AV
FCC15C § 15.247(d) 3m, below 1GHz:QP, above 1GHz:AV



Frequency	Reading	DET	Antenna		Level	Angle	Height	Polar.	Limit	Margin
			Factor	Loss& Gain						
[MHz]	[dBμV]		[dB/m]	[dB]	[dBμV/m]	[Deg]	[cm]		[dBμV/m]	[dB]
35.450	23.2	QP	16.3	-21.0	18.5	271	296	Hori.	40.0	21.5
35.167	36.0	QP	16.5	-21.0	31.5	228	100	Vert.	40.0	8.5
62.039	38.0	QP	8.1	-20.5	25.6	169	330	Vert.	40.0	14.4
73.718	25.3	QP	6.8	-20.2	11.9	114	266	Hori.	40.0	28.1
111.699	29.0	QP	11.9	-19.5	21.4	290	262	Hori.	43.5	22.1
105.287	26.9	QP	11.0	-19.5	18.4	226	100	Vert.	43.5	25.1
135.974	24.9	QP	14.1	-19.1	19.9	286	214	Hori.	43.5	23.6
134.606	27.5	QP	14.0	-19.1	22.4	237	100	Vert.	43.5	21.1
153.619	26.6	QP	15.3	-18.8	23.1	342	198	Hori.	43.5	20.4
153.619	23.9	QP	15.3	-18.8	20.4	252	100	Vert.	43.5	23.1
826.667	23.5	QP	21.3	-15.6	29.2	0	100	Vert.	46.0	16.8
826.667	23.5	QP	21.3	-15.6	29.2	0	100	Hori.	46.0	16.8

CHART:WITH FACTOR ANT TYPE : -30MHz LOOP, 30-300MHz BICONICAL, 300MHz-1000MHz LOGPERIODIC, 1000MHz- HORN
Except for the data below : adequate margin data below the limits.
CALCULATION : READING + ANT FACTOR + LOSS (CABLE+ATTEN.) - AMP. GAIN

Radiated Spurious Emission

* The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

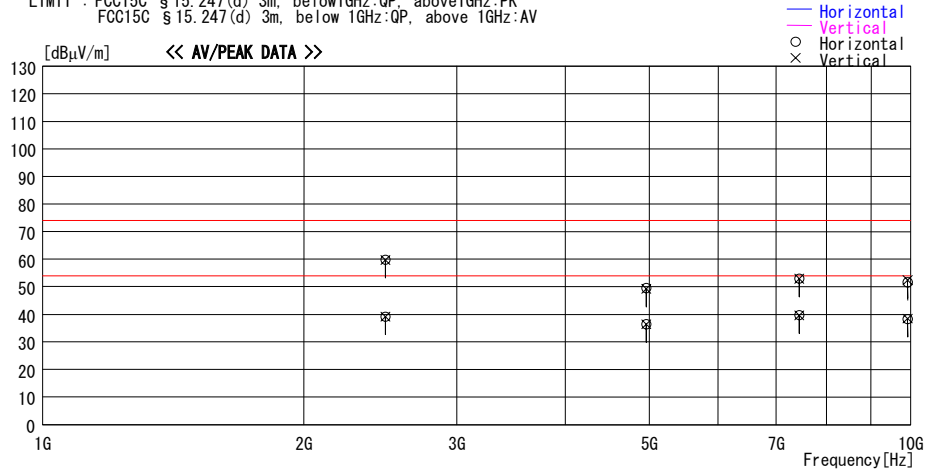
DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2005/09/03 00:22:54

Applicant : Sharp Corporation
Kind of EUT : GSM900/1800/1900GPRS Phone
Model No. : GX40
Serial No. : IMEI: 004400/01/630097/0
Report No. : 25LE0090-HO
Power : DC3.9V (Adapter:AC120V)
Temp./Humi. : 22deg.C / 60%
Operator : Kenichi Adachi

Mode / Remarks : Bluetooth Tx2480MHz DH5 / Max Axis (H: Z-axis, V: Z-axis)

LIMIT : FCC15C §15.247(d) 3m, below 1GHz:QP, above 1GHz:PK
FCC15C §15.247(d) 3m, below 1GHz:QP, above 1GHz:AV



Frequency	Reading	DET	Antenna	Loss&	Level	Angle	Height	Polar.	Limit	Margin
			Factor	Gain						
[MHz]	[dBμV]		[dB/m]	[dB]	[dBμV/m]	[Deg]	[cm]		[dBμV/m]	[dB]
2483.500	61.8	PK	30.8	-32.8	59.8	160	125	Hori.	74.0	14.2
2483.500	41.1	AV	30.8	-32.8	39.1	160	125	Hori.	54.0	14.9
2483.500	61.7	PK	30.8	-32.8	59.7	175	110	Vert.	74.0	14.3
2483.500	41.1	AV	30.8	-32.8	39.1	175	110	Vert.	54.0	14.9
4960.058	44.2	PK	35.8	-30.5	49.5	160	100	Hori.	74.0	24.5
4960.058	31.1	AV	35.8	-30.5	36.4	160	100	Hori.	54.0	17.6
4959.753	43.9	PK	35.8	-30.5	49.2	175	115	Vert.	74.0	24.8
4959.753	31.0	AV	35.8	-30.5	36.3	175	115	Vert.	54.0	17.7
7440.000	44.1	PK	37.9	-29.0	53.0	160	100	Hori.	74.0	21.0
7440.000	30.8	AV	37.9	-29.0	39.7	160	100	Hori.	54.0	14.3
7440.000	44.0	PK	37.9	-29.0	52.9	175	110	Vert.	74.0	21.1
7440.000	30.7	AV	37.9	-29.0	39.6	175	110	Vert.	54.0	14.4
9920.000	43.8	PK	36.2	-28.3	51.7	160	100	Hori.	74.0	22.3
9920.000	30.4	AV	36.2	-28.3	38.3	160	100	Hori.	54.0	15.7
9920.000	44.5	PK	36.2	-28.3	52.4	175	110	Vert.	74.0	21.6
9920.000	30.5	AV	36.2	-28.3	38.4	175	110	Vert.	54.0	15.6

CHART: WITH FACTOR ANT TYPE : -30MHz LOOP, 30-300MHz BICONICAL, 300MHz-1000MHz LOGPERIODIC, 1000MHz- HORN
Except for the data below : adequate margin data below the limits.
CALCULATION : READING + ANT FACTOR + LOSS (CABLE+ATTEN.) - AMP. GAIN

Radiated Spurious Emission

* The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2005/09/03 02:28:44

Applicant : Sharp Corporation
Kind of EUT : GSM900/1800/1900GPRS Phone
Model No. : GX40
Serial No. : IMEI: 004400/01/630097/0
Report No. : 25LE0090-HO
Power : DC3.9V (Adapter:AC120V)
Temp./Humi. : 22deg. C / 60%
Operator : Kenichi Adachi

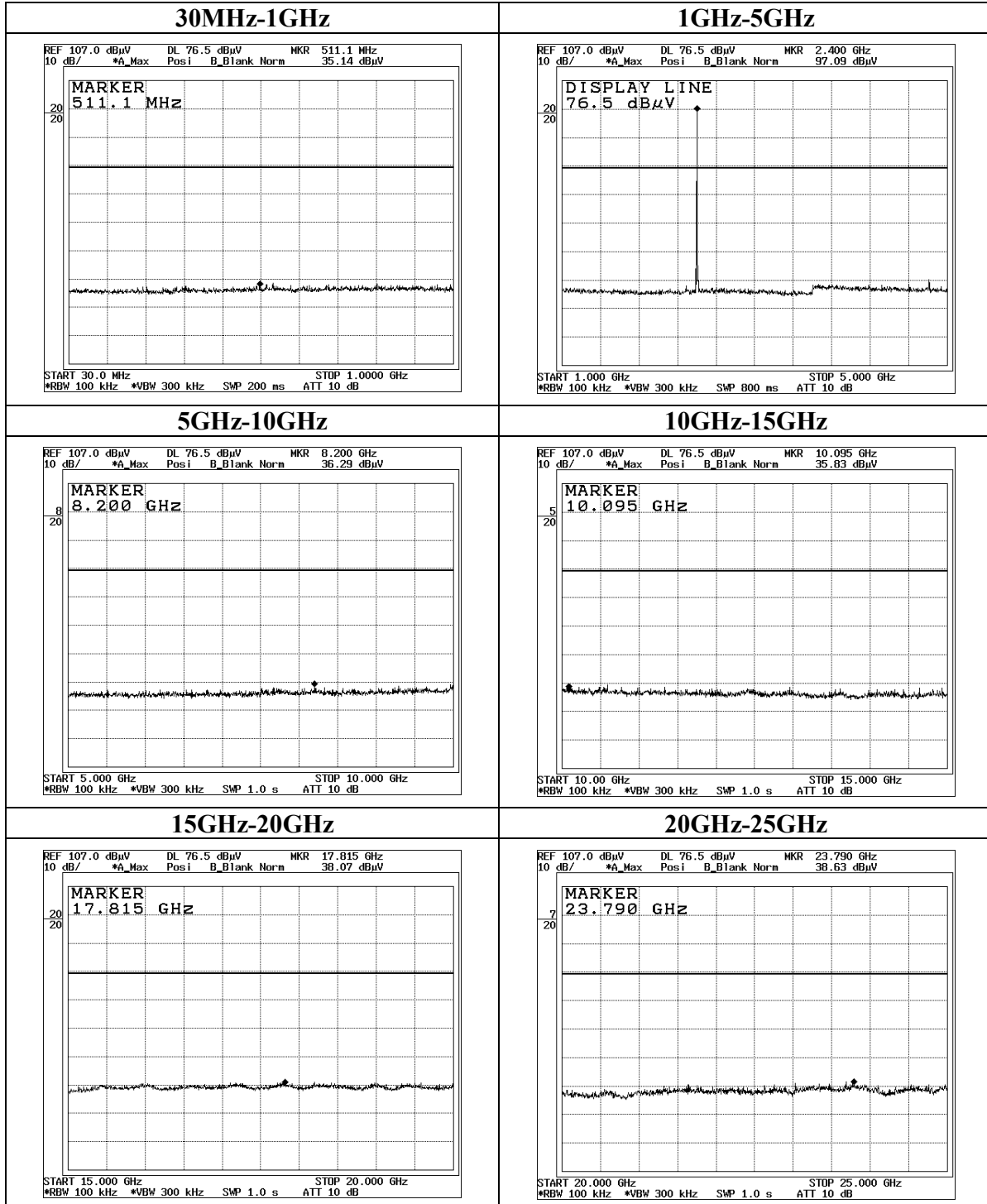
Mode / Remarks : Bluetooth Tx2480MHz DH5 / Max Axis (H: Z-axis, V: Z-axis)

LIMIT : FCC15C §15.247(d) 3m, below1GHz:QP, above1GHz:PK
FCC15C §15.247(d) 3m, below 1GHz:QP, above 1GHz:AV

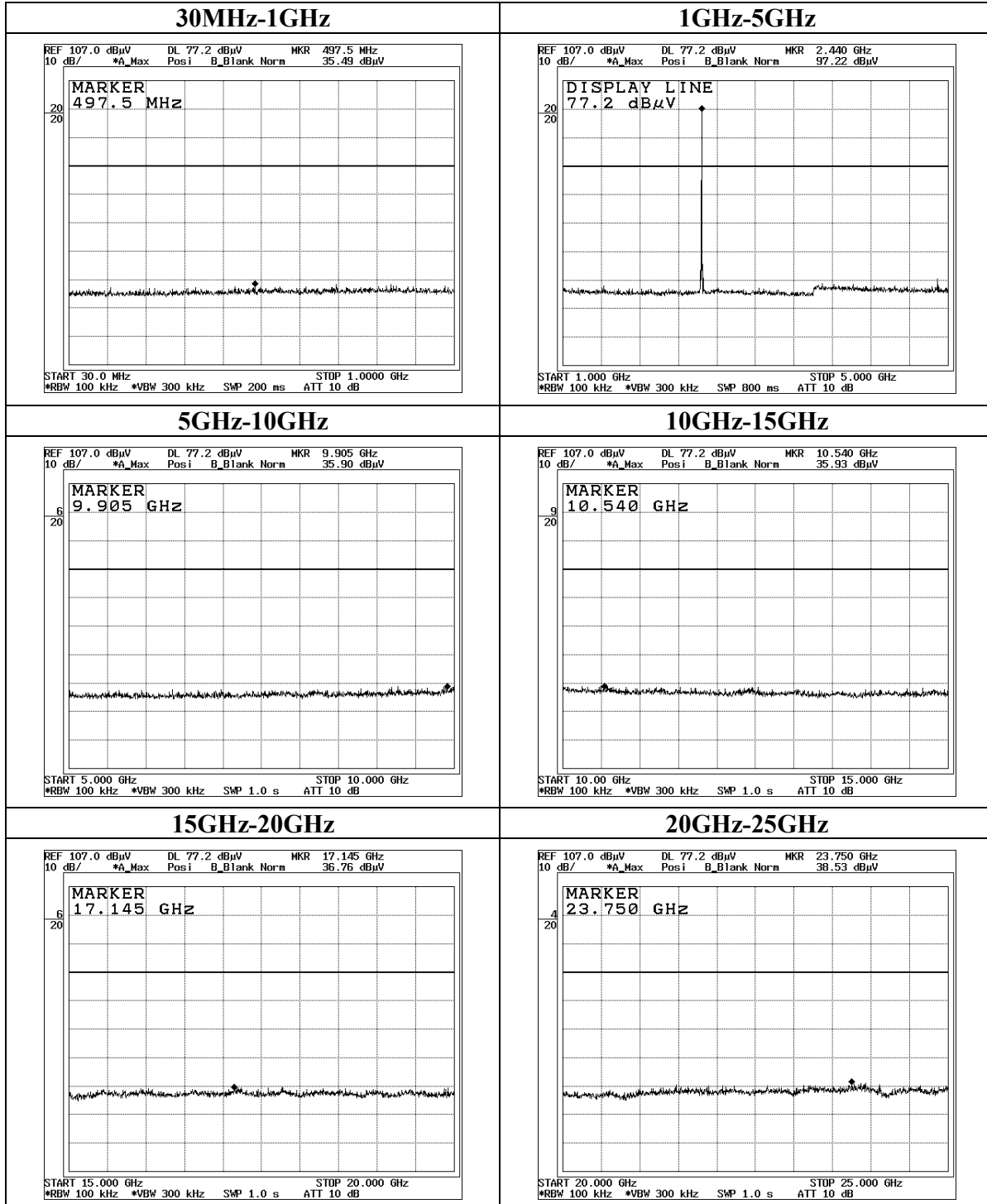
Frequency	Reading	DET	Antenna	Loss&	Level	Angle	Height	Polar.	Limit	Margin
			Factor	Gain						
[MHz]	[dBuV]		[dB/m]	[dB]	[dBuV/m]	[Deg]	[cm]		[dBuV/m]	[dB]
12400.000	44.1	PK	41.6	-35.7	50.0	0	100	Hori.	74.0	24.0
12400.000	30.9	AV	41.6	-35.7	36.8	0	100	Hori.	54.0	17.2
12400.000	44.2	PK	41.6	-35.7	50.1	0	100	Vert.	74.0	23.9
12400.000	31.0	AV	41.6	-35.7	36.9	0	100	Vert.	54.0	17.1
14880.000	43.6	PK	42.6	-34.8	51.4	0	100	Hori.	74.0	22.6
14880.000	30.2	AV	42.6	-34.8	38.0	0	100	Hori.	54.0	16.0
14880.000	43.7	PK	42.6	-34.8	51.5	0	100	Vert.	74.0	22.5
14880.000	30.3	AV	42.6	-34.8	38.1	0	100	Vert.	54.0	15.9
17360.000	42.3	PK	44.4	-32.7	54.0	0	100	Hori.	74.0	20.0
17360.000	29.3	AV	44.4	-32.7	41.0	0	100	Hori.	54.0	13.0
17360.000	42.4	PK	44.4	-32.7	54.1	0	100	Vert.	74.0	19.9
17360.000	29.4	AV	44.4	-32.7	41.1	0	100	Vert.	54.0	12.9
19840.000	42.3	PK	41.1	-30.8	52.6	0	100	Hori.	74.0	21.4
19840.000	29.7	AV	41.1	-30.8	40.0	0	100	Hori.	54.0	14.0
19840.000	42.2	PK	41.1	-30.8	52.5	0	100	Vert.	74.0	21.5
19840.000	29.6	AV	41.1	-30.8	39.9	0	100	Vert.	54.0	14.1
22320.000	45.1	PK	40.4	-30.4	55.1	0	100	Hori.	74.0	18.9
22320.000	32.1	AV	40.4	-30.4	42.1	0	100	Hori.	54.0	11.9
22320.000	45.0	PK	40.4	-30.4	55.0	0	100	Vert.	74.0	19.0
22320.000	32.0	AV	40.4	-30.4	42.0	0	100	Vert.	54.0	12.0
24800.000	44.2	PK	41.1	-29.8	55.5	0	100	Hori.	74.0	18.5
24800.000	31.2	AV	41.1	-29.8	42.5	0	100	Hori.	54.0	11.5
24800.000	44.2	PK	41.1	-29.8	55.5	0	100	Vert.	74.0	18.5
24800.000	31.3	AV	41.1	-29.8	42.6	0	100	Vert.	54.0	11.4

CHART:WITH FACTOR ANT TYPE : -30MHz LOOP, 30-300MHz BICONICAL, 300MHz-1000MHz LOGPERIODIC, 1000MHz- HORN
Except for the data below : adequate margin data below the limits.
CALCULATION : READING + ANT FACTOR + LOSS (CABLE+ATTEN.) - AMP. GAIN

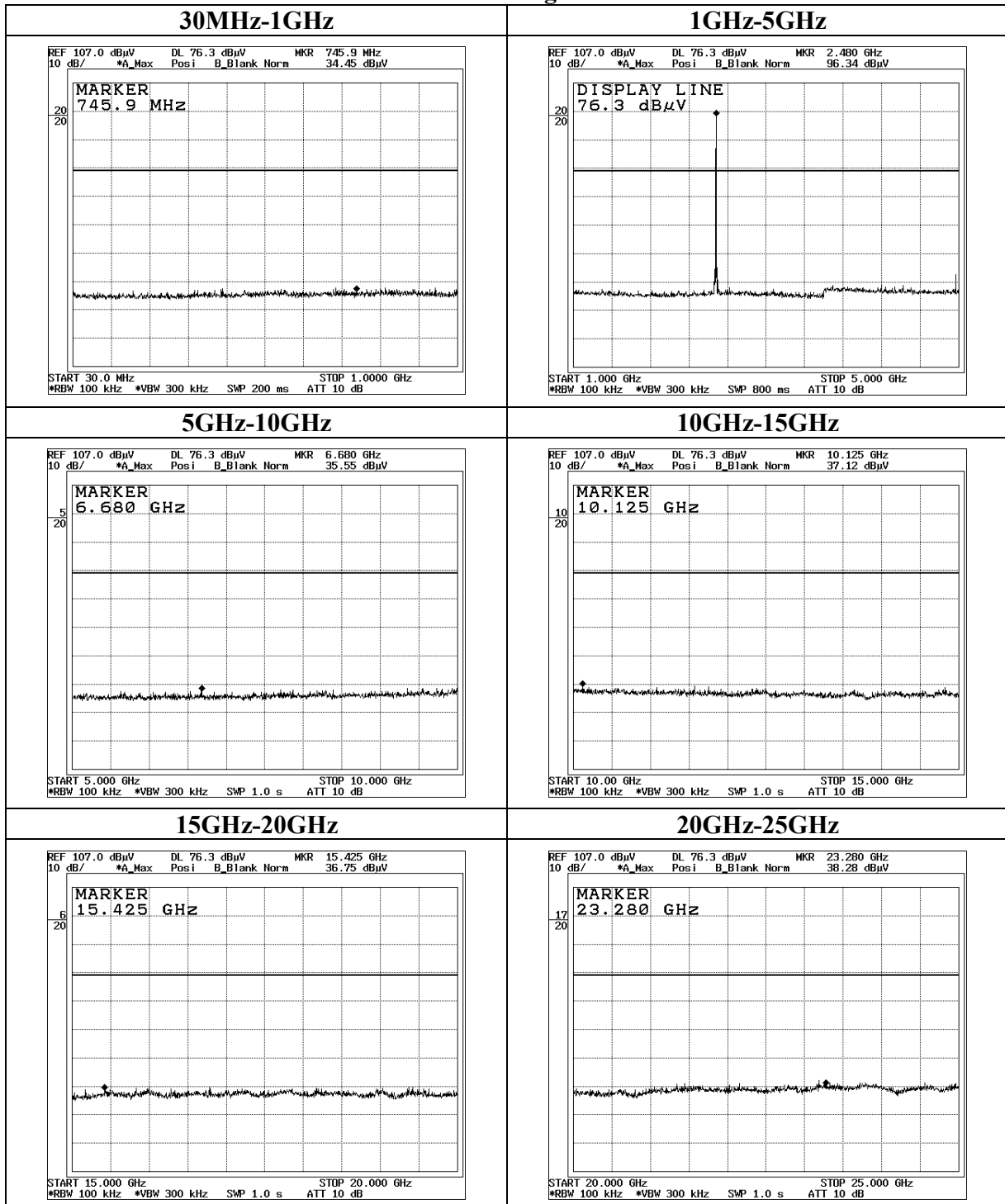
Conducted Spurious Emission
Ch:Low



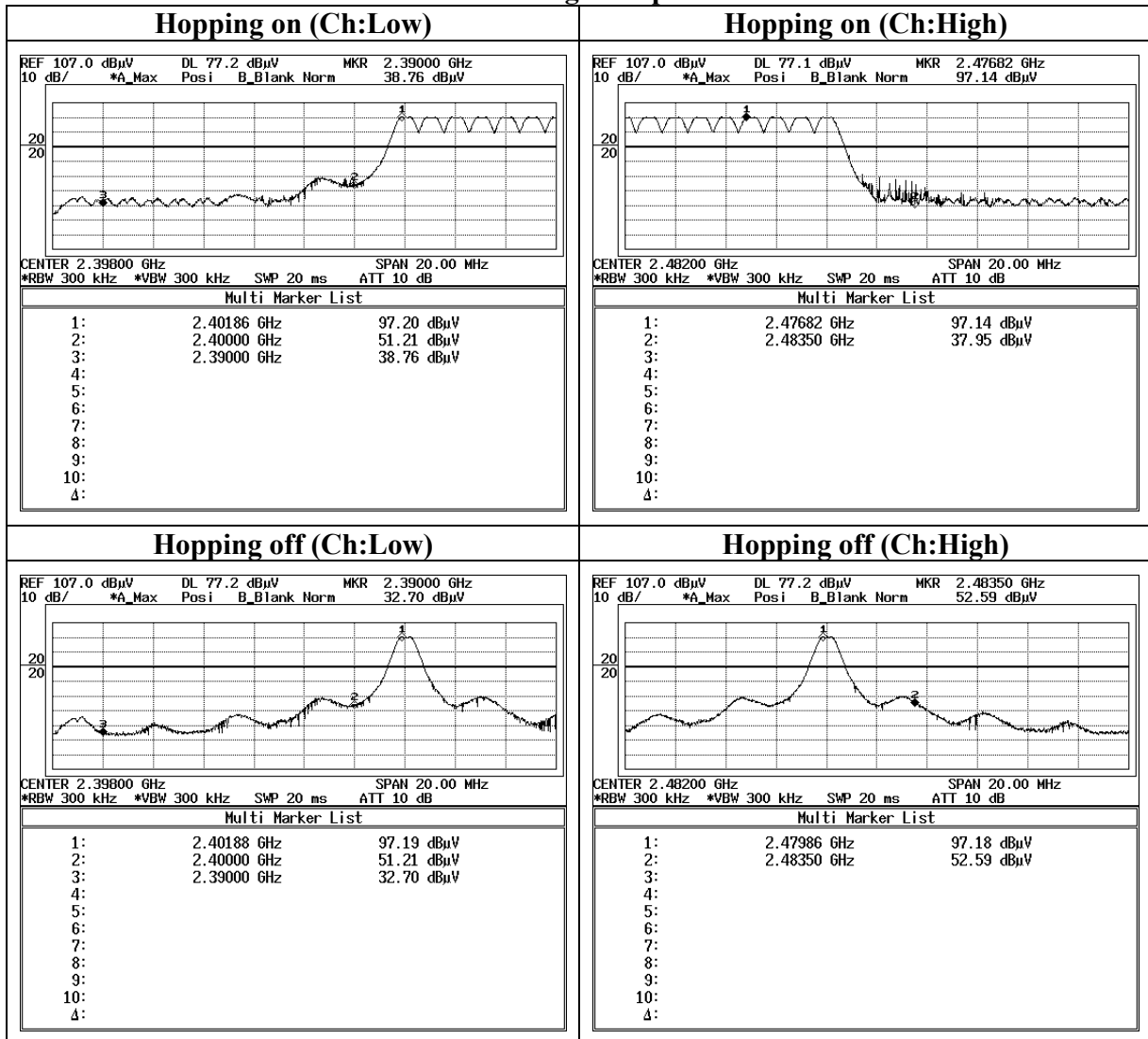
Conducted Spurious Emission
Ch:Mid



Conducted Spurious Emission
Ch:High



Conducted Spurious Emission
Band Edge compliance



99% Occupied Bandwidth

