



RADIO TEST REPORT

Test Report No.: 26HE0117-HO-1

Applicant : Panasonic Communications Co., Ltd.
Type of Equipment : Cordless Telephone (Portable Unit)
Model No. : KX-TGA572
FCC ID : ACJ96NKX-TGA572
Test standard : FCC Part 15 Subpart C
Section 15.207, Section 15.247: 2006
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: March 27 to April 3, 2006

Tested by:

Makoto Kosaka
EMC Services

Kenichi Adachi
EMC Services

Norihisa Hashimoto
EMC Services

Approved by :

Hironobu Shimoji
Group Leader of
EMC Services

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

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SECTION 1: Client information

Company Name	Panasonic Communications Co., Ltd.
Brand name	Panasonic
Address	1-62, 4-chome, Minoshima, Hakata-ku, Fukuoka, 812-8531 Japan
Telephone Number	+81-92-477-1405
Facsimile Number	+81-92-477-1487
Contact Person	Kunihiko Nawata

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

2.1 Identification of E.U.T.

Type of Equipment	Cordless Telephone (Portable Unit)	
Model No.	KX-TGA572 (Handset)	
Serial No.	2 for Radiated Emission test 3 for Antenna Terminal Conducted test	
Country of Manufacture	Japan	
Battery	Model Name :	HHR-P105
	Rating :	DC2.4V/830mAh
	Manufacture	Panasonic
Option Battery	N/A	
Condition of EUT	Engineering prototype (Not for sale: This sample is equivalent to mass-produced items.)	
Operation Clock	Main clock : 13.824 MHz	
Receipt Date of Sample	March 27, 2006	

2.2 Product Description

Equipment Type	Transceiver
Frequency band	Lower Channel : 5759.70240MHz Upper Channel : 5838.18697MHz
Bandwidth & Channel spacing	Bandwidth: 79MHz Channel spacing: 891.87kHz
Type of Modulation	FHSS
Antenna Type	5/8 lambda Pattern-Antenna
Antenna Gain	4dBi Typ.
Mode of Operation	Duplex
ITU code	F1E
Power Supply (RF Part)	DC3.1V
Method of Frequency Generation	Synthesizer

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SECTION 3: Test specification, procedures & results

3.1 Test Specification

Test Specification : FCC Part15 Subpart C : 2006
Title : FCC 47CFR Part15 Radio Frequency Device Subpart C Intentional Radiators
Section 15.207 Conducted limits: 2006
Section 15.247 Operation within the bands 902-928MHz, 2400-2483.5MHz, and 5725-5850MHz: 2006

FCC 15.31 (e)

This EUT provides stable voltage (DC3.1V) constantly to RF Module regardless of input voltage.

FCC Part 15.203 Antenna requirement

It is impossible for end users to replace the antenna, because the antenna is installed inside the EUT.

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	N/A*1)	Complied
2	Carrier Frequency Separation	ANSI C63.4:2003 13. Measurement of intentional radiators	Section 15.247(a)(1)(ii)	Conducted	N/A	See data.	Complied
3	20dB Bandwidth	ANSI C63.4:2003 13. Measurement of intentional radiators	Section 15.247(a)(1)(ii)	Conducted	N/A		Complied
4	Number of Hopping Frequency	ANSI C63.4:2003 13. Measurement of intentional radiators	Section 15.247(a)(1)(ii)	Conducted	N/A		Complied
5	Dwell time	ANSI C63.4:2003 13. Measurement of intentional radiators	Section 15.247(a)(1)(ii)	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		1.9dB 28994.7MHz, Hor. Ch: Mid

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.

*1) The test is not applicable, because the EUT is not connected to the public utility (AC) power line.

*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 Uncertainty

Spurious Emission (Radiated)

The measurement uncertainty (with a 95% confidence level) for this test using Biconical antenna is $\pm 4.59\text{dB}(3\text{m})/\pm 4.58\text{dB}(10\text{m})$.

The measurement uncertainty (with a 95% confidence level) for this test using Logperiodic antenna is $\pm 4.62\text{dB}(3\text{m})/\pm 4.60\text{dB}(10\text{m})$.

The measurement uncertainty (with a 95% confidence level) for this test using Horn antenna is $\pm 5.27\text{dB}$.

The data listed in this report meets the limits unless the uncertainty is taken into consideration.

Other test except Conducted Emission and Spurious Emission (Radiated)

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

3.4 Test Location

Telephone : +81 596 24 8116 Facsimile : +81 596 24 8124

	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	-	-	4.0 x 6.0 x 2.7m	N/A	-
No.4 shielded room	-	-	4.0 x 6.0 x 2.7m	N/A	-
No.5 shielded room	-	-	6.0 x 6.0 x 3.9m	N/A	-
No.6 shielded room	-	-	4.0 x 4.5 x 2.7m	N/A	-
No.6 measurement room	-	-	4.75 x 5.4 x 3.0m	N/A	-
No.7 shielded room	-	-	4.7 x 7.5 x 2.7m	4.7 x 7.5m	-
No.8 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.7 shielded room.

3.5 Test set up, Test instruments and Data of EMI

Refer to APPENDIX 1 to 3.

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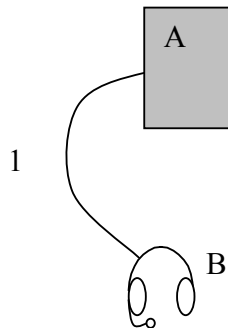
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SECTION 4: Operation of E.U.T. during testing

4.1 Operating Modes

The mode is used : Transmitting mode
Low Channel : 5759.70240MHz
Mid Channel : 5798.05084MHz
High Channel : 5838.18697MHz

4.2 Configuration and peripherals



* Cabling and setup were 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	Cordless Telephone (Portable Unit)	KX-TGA572 (Handset)	1 for Antenna Terminal Conducted test 2 for Radiated Emission test	Panasonic Communications	ACJ96NKX-TGA572
B	Headphone	KX-TCA88	-	Panasonic Communications	-

List of cables used

No.	Name	Length (m)	Shield
1	Headset Cable	1.8	N

SECTION 5: Spurious Emission

[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

[Radiated]

Test Procedure

EUT was placed on a platform of nominal size, 0.5m by 1.0m, 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

Date:

Test engineer: Makoto Kosaka

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

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SECTION 6: Bandwidth

Test Procedure

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

Test data : APPENDIX 3
Test result : Pass

SECTION 7: 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

SECTION 8: 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 9: 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 10: 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

APPENDIX 2:Test instruments

EMI test equipment

Control No.	Instrument	Manufacturer	Model No	Test Item	Calibration Date * Interval(month)
MSA-03	Spectrum Analyzer	Agilent	E4448A	AT	2005/09/16 * 12
MCC-05	Microwave Cable 1G-50GHz	Storm	421-011 (90- 1394-079)	AT,RE	2006/01/04 * 12
MAT-22	Attenuator(10dB)(above1GHz)	Orient Microwave	BX10-0476-00	AT	2006/03/18 * 12
MAEC-02	Anechoic Chamber	TDK	Semi Anechoic Chamber 3m	RE	2005/04/11 * 12
MRENT-26	Spectrum Analyzer	Advantest	R3273	RE	2006/02/15 * 12
MCC-16	Microwave Cable 1G-26.5GHz	Suhner	SUCOFLEX 104	RE	2006/02/02 * 12
MPA-10	Pre Amplifier	Agilent	8449B	RE	2005/09/07 * 12
MCC-47	Microwave Cable 1G-26.5GHz	Suhner	SUCOFLEX104	RE	2005/08/30 * 12
MHA-06	Horn Antenna	Schwarzbeck	BBHA9120D	RE	2006/01/09 * 12
MOS-02	Digital Humidity Indicator	N.T	NT-1800	RE	2004/11/25 * 24
MHA-04	Horn Antenna	EMCO	3160-10	RE	2006/01/09 * 12
MHA-02	Horn Antenna	EMCO	3160-09	RE	2006/01/09 * 12
MBF-03	SHF Bandpass Filter	M-City	13GHz BPF	RE	2005/05/20 * 12
MPA-05	Pre Amplifier	TSJ	TSJ 1-26.5GHz PreAmp	RE	2005/07/08 * 12
MBA-02	Biconical Antenna	Schwarzbeck	BBA9106	RE	2005/10/10 * 12
MLA-02	Logperiodic Antenna	Schwarzbeck	USLP9143	RE	2005/10/14 * 12
MAT-07	Attenuator(6dB)	Weinschel Corp	2	RE	2005/12/16 * 12
MCC-12	Coaxial Cable	Fujikura/Agilent	-	RE	2006/02/23 * 12
MPA-09	Pre Amplifier	Agilent	8447D	RE	2005/09/07 * 12
MPA-03	Microwave System Power Amplifier	Agilent	83050A	RE	2005/05/11 * 12
MSA-03	Spectrum Analyzer	Agilent	E4448A	RE	2005/09/16 * 12
MCC-27	Microwave Cable 1G-50GHz	Suhner	SUCOFLEX101	RE	2005/08/30 * 12
MCC-05	Microwave Cable 1G-50GHz	Storm	421-011 (90- 1394-079)	RE	2006/01/04 * 12

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

Test Item:

RE: Radiated Emission

AT: Antenna Terminal Conducted Test

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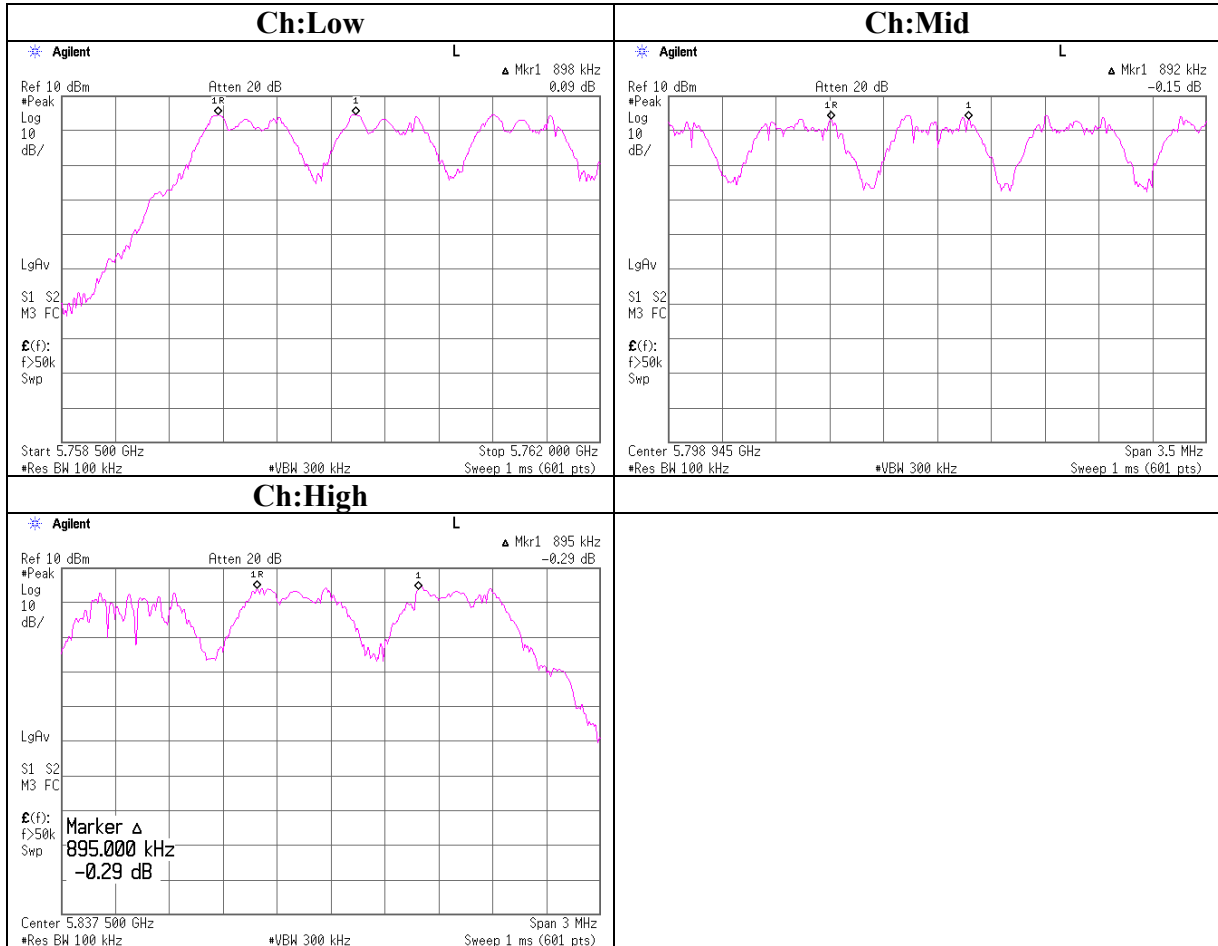
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Carrier Frequency Separation



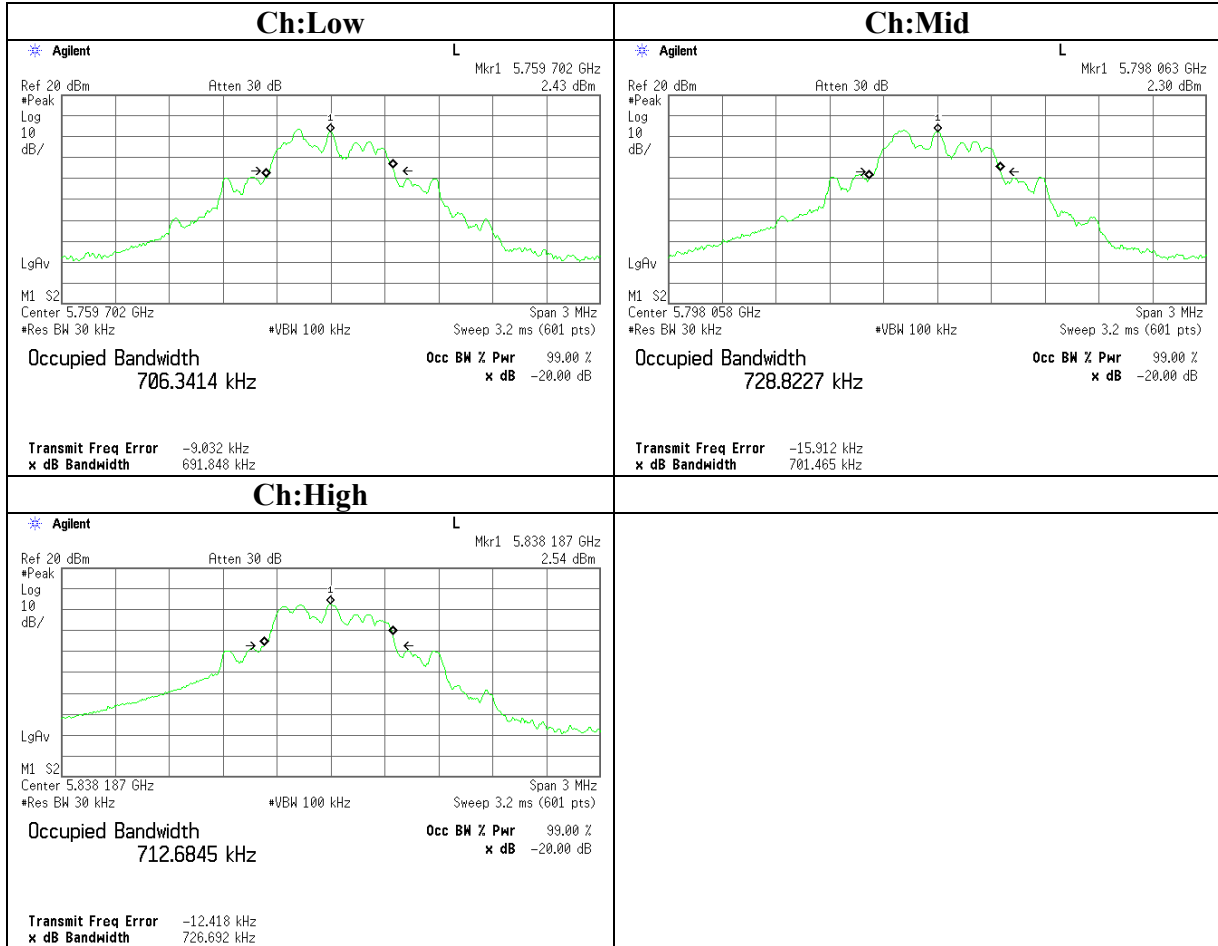
20dB Bandwidth

Company : Panasonic Communications Co., Ltd.
Equipment : Cordless Telephone (Portable Unit)
Model : KX-TGA572 (Handset)
S/N : 3
Power : DC2.4V
Mode : Tx (Hopping off)

UL-Apex
Head Office EMC Lab. No.7 Shielded Room
Regulation : Section 15.247(a)(1)(ii)
Test Distance : -
Date : 03/27/2006
Temperature : 25 deg.C.
Humidity : 35 %
Engineer : Norihisa Hashimoto

Ch	Freq. [MHz]	20dB Bandwidth [MHz]	Limit [MHz]
Low	5759.5	0.692	≤ 1
Mid	5798.1	0.701	≤ 1
High	5838.2	0.727	≤ 1

20dB Bandwidth



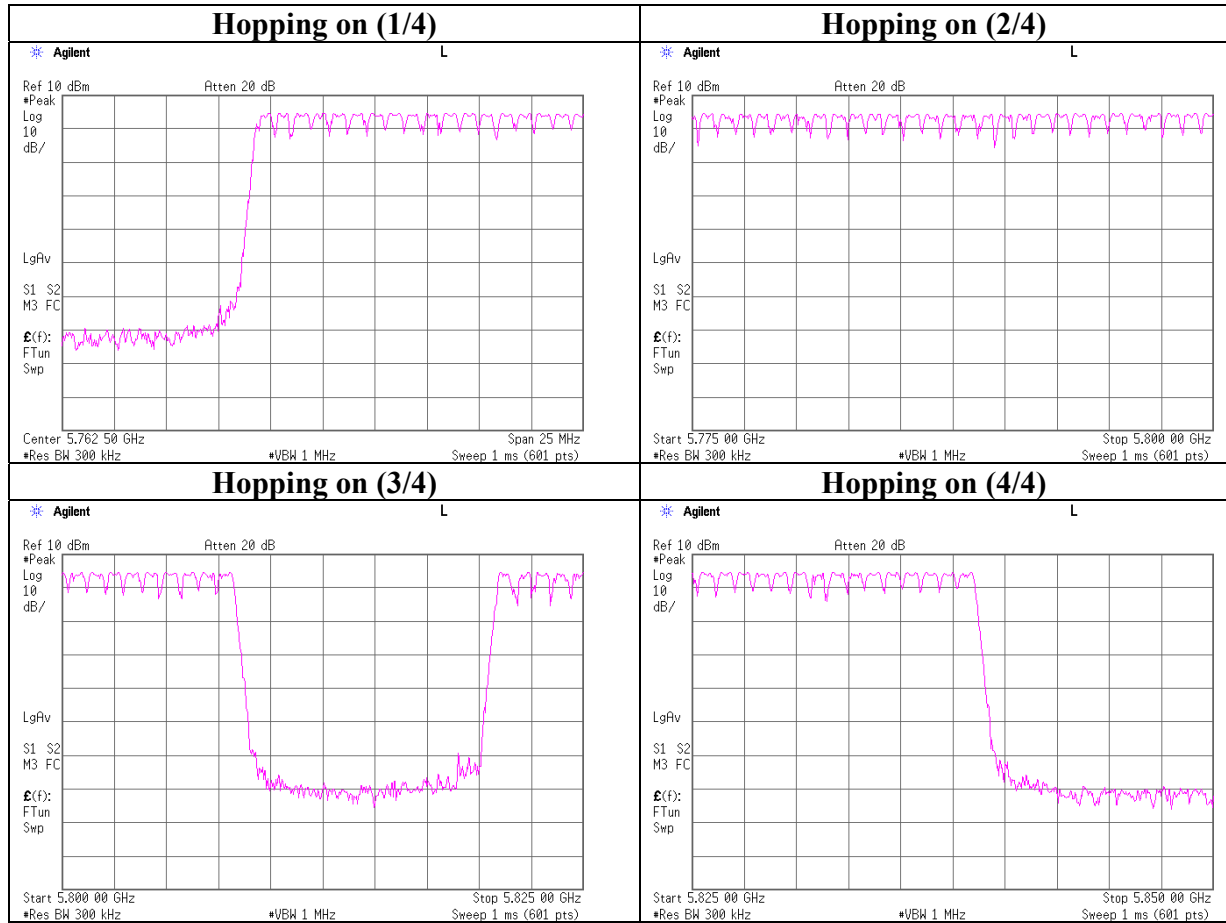
Number of Hopping Frequency

Company : Panasonic Communications Co., Ltd.
Equipment : Cordless Telephone (Portable Unit)
Model : KX-TGA572 (Handset)
S/N : 3
Power : DC2.4V
Mode : Tx (Hopping on)

UL-Apex
Head Office EMC Lab. No.7 Shielded Room
Regulation : Section 15.247(a)(1)(ii)
Test Distance : -
Date : 03/27/2006
Temperature : 25 deg.C.
Humidity : 35 %
Engineer : Norihisa Hashimoto

Mode	Number of channel [time]	Limit [time]
Tx(Hoppng on)	75	≥ 75

Number of Hopping Frequency

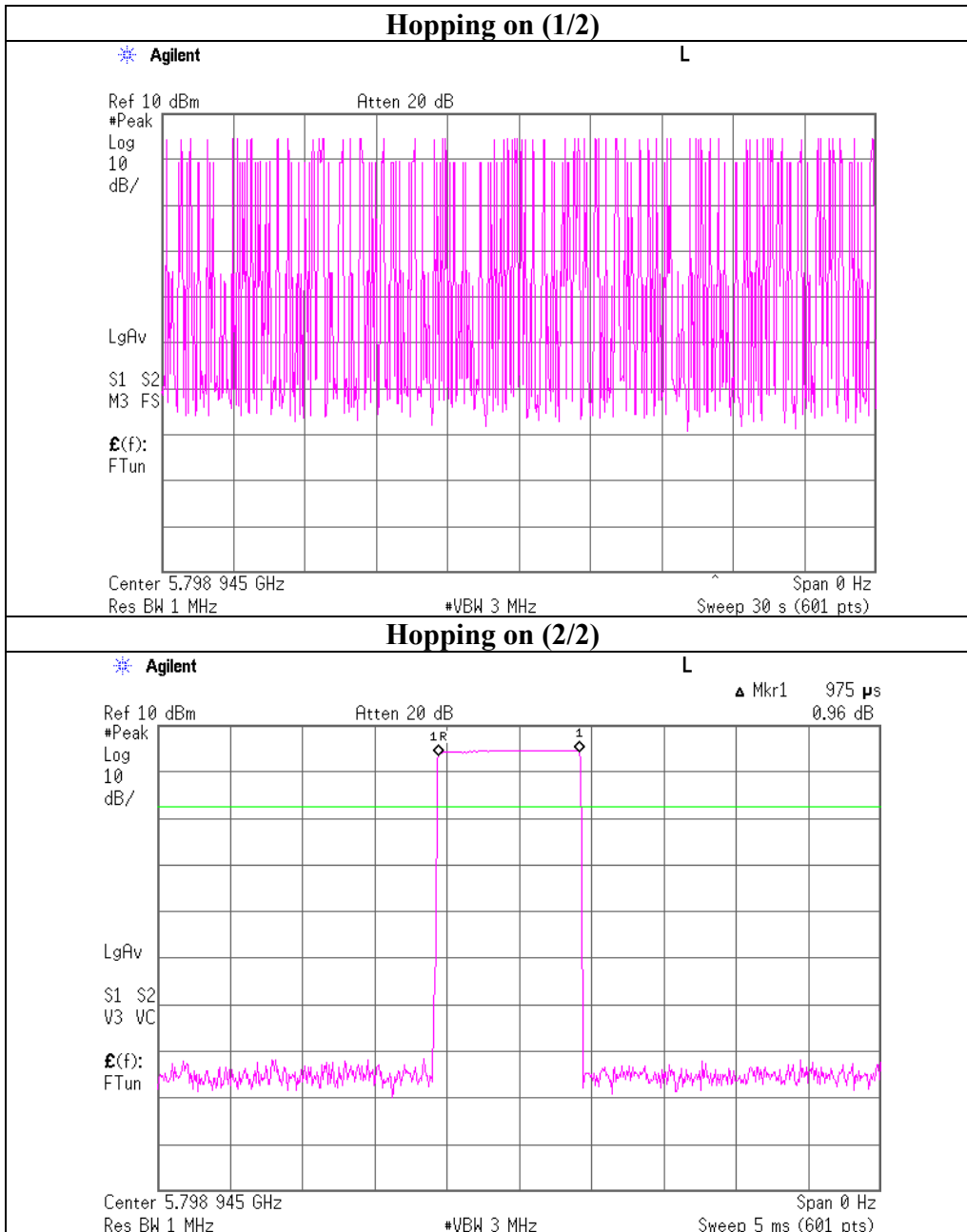


Dwell time

Company	: Panasonic Communications Co.,Ltd.	UL-Apex	
Equipment	: Cordless Telephone (Portable Unit)	Head Office EMC Lab. No.7 Shielded Room	
Model	: KX-TGA572 (Handset)	Regulation	: Section 15.247(a)(1)(ii)
S/N	: 3	Test Distance	: -
Power	: DC2.4V	Date	: 03/27/2006
Mode	: Tx (Hopping on)	Temperature	: 25 deg.C.
		Humidity	: 35 %
		Engineer	: Norihisa Hashimoto

Mode	Number of transmission in a 30sec	Length of transmission time [msec]	Result [msec]	Limit [msec]
Tx Hopping on	75 times / 30 sec. x 30 = 75 times	0.975	73	400

Dwell time



Maximum Peak Output Power

<p>Company : Panasonic Communications Co.,Ltd. Equipment : Cordless Telephone (Portable Unit) Model : KX-TGA572 (Handset) S/N : 3 Power : DC2.4V Mode : Tx (Hopping off)</p>	<p>UL-Apex Head Office EMC Lab. No.7 Shielded Room Regulation : Section 15.247(b)(1) Test Distance : - Date : 03/27/2006 Temperature : 25 deg.C. Humidity : 35 % Engineer : Norihisa Hashimoto</p>
---	---

Ch	Freq. [MHz]	S/A Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Limit [dBm]	Margin [dB]
Low	5759.5	3.85	2.84	10.06	16.75	30.00	13.25
Mid	5798.1	4.02	2.85	10.07	16.94	30.00	13.06
High	5838.2	4.10	2.85	10.07	17.02	30.00	12.98

Sample Calculation:

Result = Reading + Cable Loss + Attenuator

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

Reference Data

<p>Model : KX-TGA572 (Handset) S/N : 1 Power : DC2.4V Mode : Tx (Hopping off)</p>	<p>Head Office EMC Lab. No.2 Semi Anechoic Chamber Regulation : Section 15.247(b)(1) Test Distance : 3m Date : 04/06/2006 Temperature : 27 deg.C. Humidity : 33 %</p>
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EIRP (Equivalent Isotropically Radiated Power)

Ch	Freq. [MHz]	E-field [dBμV/m]	EIRP [dBm]
Low	5759.70240	120.4	20.9
Mid.	5798.05084	120.7	21.1
High	5838.18697	120.6	21.0

Refer to SAR report(26HE0117-HO-3).

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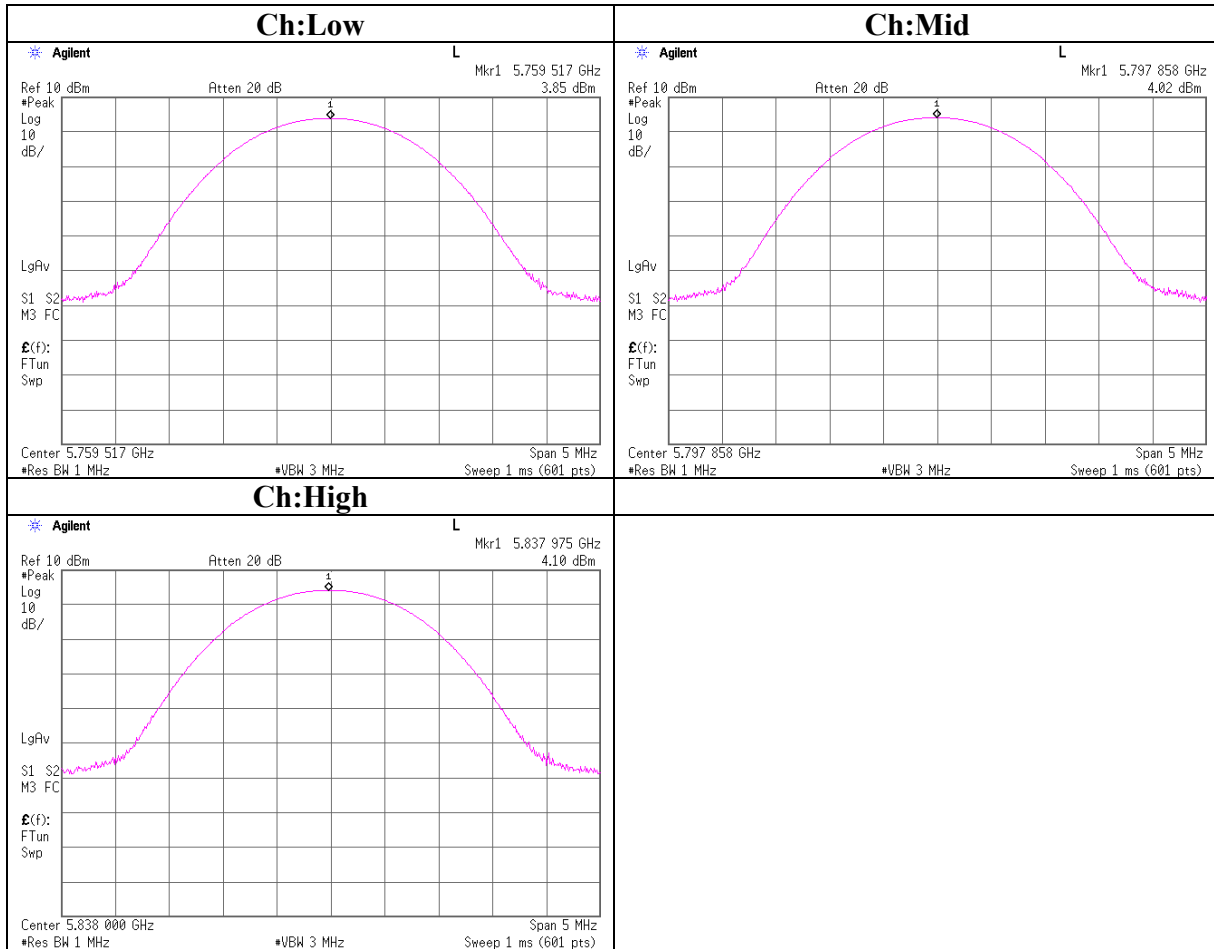
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Maximum Peak Output Power



Radiated Spurious Emission
 Tx Low

* 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.2 Semi Anechoic Chamber
 Date : 2006/04/03 20:32:54

Company	: Panasonic Communications Co., Ltd.	Report No.	: 26HE0117-H0
Kind of EUT	: Cordless Telephone (Portable Unit)	Power	: DC 2.4V (Battery)
Model No.	: KX-TGA572 (Handset)	Temp./Humi.	: 24deg. C. / 33%
Serial No.	: 2	Operator	: Makoto Kosaka

Mode / Remarks : Tx 5759.70240MHz , EUT-Max-axis(H: Z, V:Y)

LIMIT : FCC15C § 15.247(d) 3m, below1GHz:QP / RSS-Gen / RSS-210
 Except for the data below : adequate margin data below the limits.

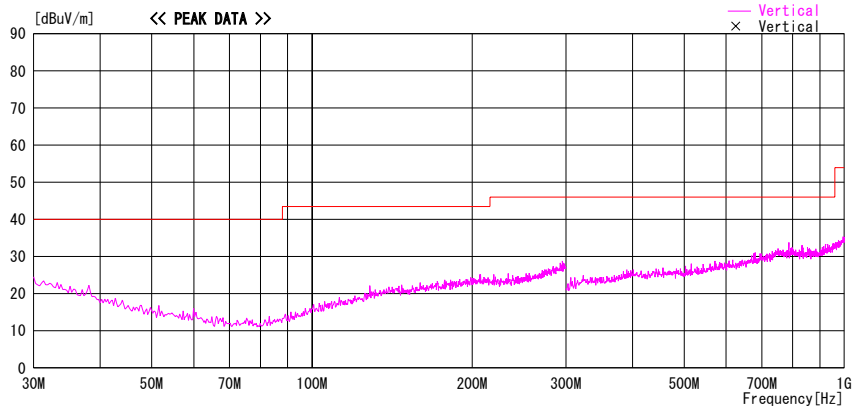
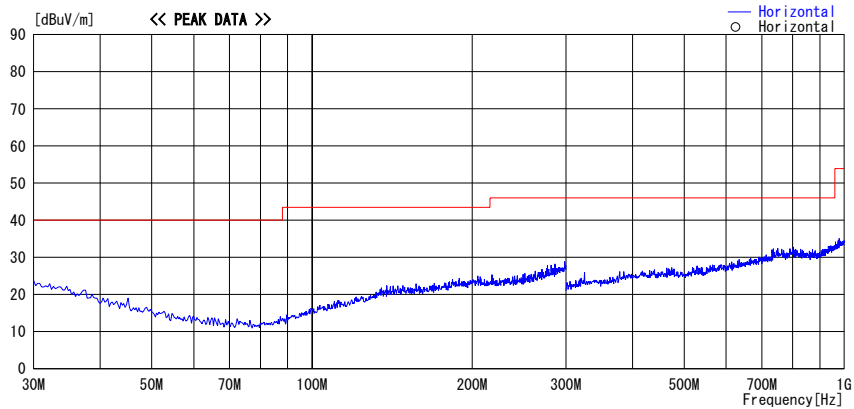


CHART: WITH FACTOR ANT TYPE : -30MHz LOOP, 30-300MHz BICONICAL, 300MHz-1000MHz LOGPERIODIC, 1000MHz- HORN
 CALCULATION: RESULT = READING + ANT FACTOR + LOSS (CABLE+ATTEN.) - GAIN (AMP)

*No spurious emission was detected from 30MHz to 1GHz.

Radiated Spurious Emission

Tx Mid

* 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.2 Semi Anechoic Chamber
 Date : 2006/04/03 21:01:51

Company	: Panasonic Communications Co., Ltd.	Report No.	: 26HE0117-HO
Kind of EUT	: Cordless Telephone (Portable Unit)	Power	: DC 2.4V (Battery)
Model No.	: KX-TGA572 (Handset)	Temp./Humi.	: 24deg. C. / 33%
Serial No.	: 2	Operator	: Makoto Kosaka

Mode / Remarks : Tx 5798.94468MHz , EUT-Max-axis(H: Z, V:Y)

LIMIT : FCC15C §15.247(d) 3m, below1GHz:QP / RSS-Gen / RSS-210
 Except for the data below : adequate margin data below the limits.

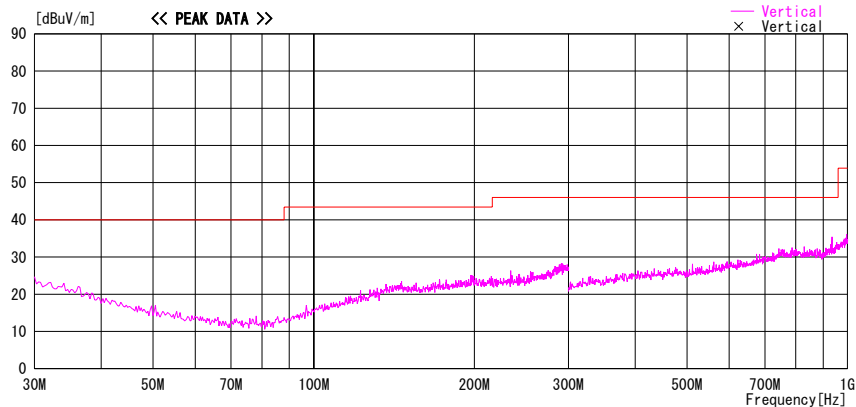
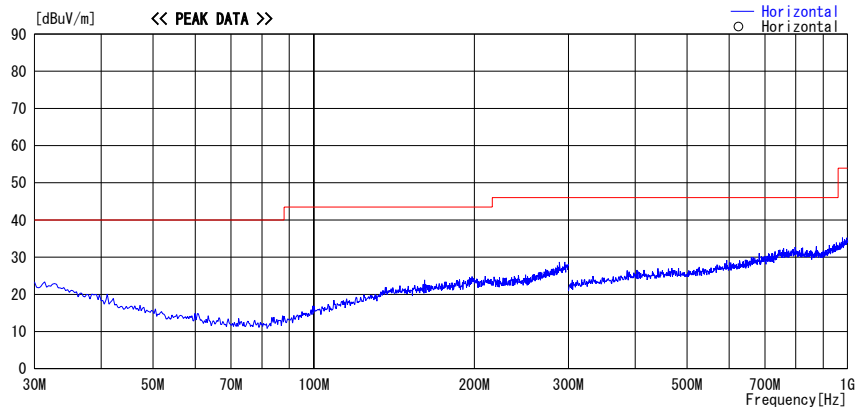


CHART: WITH FACTOR ANT TYPE : -30MHz LOOP, 30-300MHz BICONICAL, 300MHz-1000MHz LOGPERIODIC, 1000MHz- HORN
 CALCULATION: RESULT = READING + ANT FACTOR + LOSS (CABLE+ATTEN.) - GAIN (AMP)

*No spurious emission was detected from 30MHz to 1GHz.

Radiated Spurious Emission

Tx High

* 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.2 Semi Anechoic Chamber
 Date : 2006/04/03 21:21:31

Company	: Panasonic Communications Co., Ltd.	Report No.	: 26HE0117-HO
Kind of EUT	: Cordless Telephone (Portable Unit)	Power	: DC 2.4V (Battery)
Model No.	: KX-TGA572 (Handset)	Temp./Humi.	: 24deg. C. / 33%
Serial No.	: 2	Operator	: Makoto Kosaka

Mode / Remarks : Tx 5838.18697MHz , EUT-Max-axis(H: Z, V:Y)

LIMIT : FCC15C §15.247(d) 3m, below1GHz:QP / RSS-Gen / RSS-210
 Except for the data below : adequate margin data below the limits.

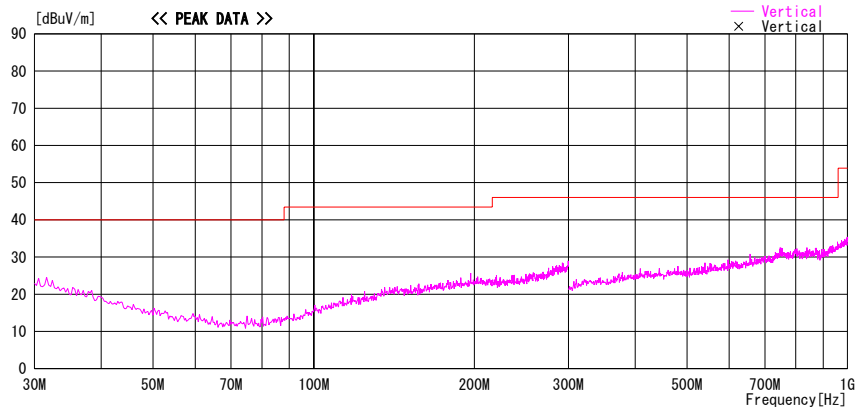
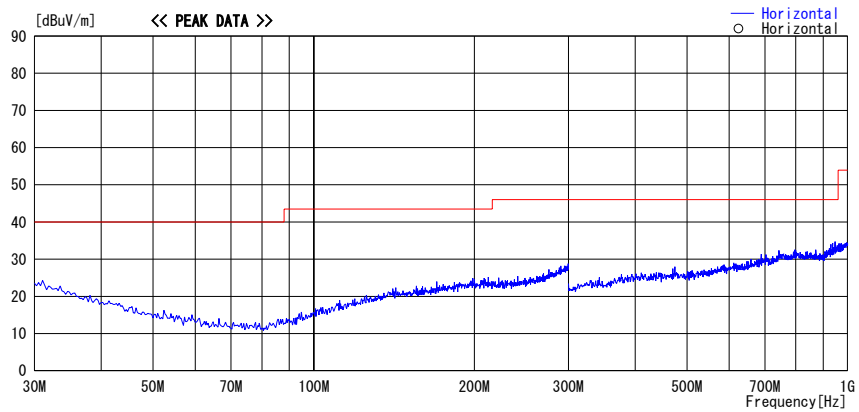


CHART: WITH FACTOR ANT TYPE : -30MHz LOOP, 30-300MHz BICONICAL, 300MHz-1000MHz LOGPERIODIC, 1000MHz- HORN
 CALCULATION: RESULT = READING + ANT FACTOR + LOSS (CABLE+ATTEN.) - GAIN (AMP)

*No spurious emission was detected from 30MHz to 1GHz.

Radiated Spurious Emission

Tx Low

<p>Company : Panasonic Communications Co.,Ltd. Equipment : Cordless Telephone (Portable Unit) Model : KX-TGA572 (Handset) Sample No. : 2 Power : DC2.4V Mode : Tx 5759.70240MHz Remarks : Hor : Z-axis / Ver : Y-axis</p>	<p style="text-align: center;">UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber</p> <p>REPORT NO : 26HE0117-HO REGULATION : FCC Part15 Subpart C 15.247(d) TEST DISTANCE : 3m / 1m / 0.5m DATE : 03/31/2006 04/03/2006 TEMPERATURE : 23deg.C 25 deg.C. HUMIDITY : 30% 35 % ENGINEER : Kenichi Adachi Norihsa Hashimoto (1G-10GHz) (above 10GHz)</p>
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PK DETECT (RBW: 1MHz, VBW: 1MHz)

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	4790.9	49.4	49.7	35.6	31.9	4.7	0.0	57.8	58.1	74.0	16.2	15.9
2	5301.8	57.9	60.1	36.5	31.8	4.9	0.0	67.5	69.7	74.0	6.5	4.3
3	5437.7	49.9	50.8	36.4	31.8	5.0	0.0	59.5	60.4	74.0	14.5	13.6
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
4	11519.7	63.2	62.3	38.5	40.3	7.5	0.2	59.6	58.7	74.0	14.4	15.3
5*	17278.9	63.6	62.0	46.2	42.0	9.8	4.7	72.8	71.2	74.0	-	-
6	23039.2	56.2	54.8	39.8	39.5	11.1	0.0	58.1	56.7	74.0	15.9	17.3
Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
7	28799.2	44.2	44.8	44.5	24.3	12.3	0.0	61.1	61.7	74.0	12.9	12.3
8	34558.2	48.1	47.5	42.2	24.6	13.3	0.0	63.4	62.8	74.0	10.6	11.2

AV DETECT (RBW: 1MHz, VBW: 10Hz)

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	4790.9	32.1	32.4	35.6	31.9	4.7	0.0	40.5	40.8	54.0	13.5	13.2
2	5301.8	34.3	35.0	36.5	31.8	4.9	0.0	43.9	44.6	54.0	10.1	9.4
3	5437.7	31.3	31.7	36.4	31.8	5.0	0.0	40.9	41.3	54.0	13.1	12.7
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
4	11519.7	37.4	37.7	38.5	40.3	7.5	0.2	33.8	34.1	54.0	20.2	19.9
5*	17278.9	38.7	38.6	46.2	42.0	9.8	4.7	47.9	47.8	54.0	-	-
6	23039.2	35.3	34.0	39.8	39.5	11.1	0.0	37.2	35.9	54.0	16.8	18.1
Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
7	28799.2	33.9	34.0	44.5	24.3	12.3	0.0	50.8	50.9	54.0	3.2	3.1
8	34558.2	34.9	34.6	42.2	24.6	13.3	0.0	50.2	49.9	54.0	3.8	4.1

* Reference data

20dBc(Fundamental 5759.70240MHz) (RBW: 100kHz, VBW: 300kHz)

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit 20dBc [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
0	5759.7	112.2	113.0	36.5	42.7	5.3	10.2	121.5	122.3	-	-	-
5	17278.9	59.7	62.0	46.2	42.0	9.8	4.7	68.9	71.2	Funda-20dB	32.6	31.1

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.5dB
*Except for the above table : All other spurious emissions were less than 20dB for the limit.
*In the frequency over the fifth harmonic, the noise from the EUT was not seen. The data above is its base noise.
*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
Tx Mid

Company	: Panasonic Communications Co.,Ltd.	UL Apex Co., Ltd.	
Equipment	: Cordless Telephone (Portable Unit)	Head Office EMC Lab. No.1 Semi Anechoic Chamber	
Model	: KX-TGA572 (Handset)	REPORT NO	: 26HE0117-HO
Sample No.	: 2	REGULATION	: FCC Part15 Subpart C 15.247(d)
Power	: DC2.4V	TEST DISTANCE	: 3m / 1m / 0.5m
Mode	: Tx 5798.94468MHz	DATE	: 03/31/2006 04/03/2006
Remarks	: Hor : Z-axis / Ver : Y-axis	TEMPERATURE	: 23deg.C 25 deg.C.
		HUMIDITY	: 30% 35 %
		ENGINEER	: Kenichi Adachi Norihisa Hashimoto
			(1G-10GHz) (above10GHz)

PK DETECT (RBW: 1MHz, VBW: 1MHz)

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	4867.6	50.3	50.9	36.1	31.8	4.7	0.0	59.3	59.9	74.0	14.7	14.1
2	5225.1	52.4	54.5	36.6	31.8	4.9	0.0	62.1	64.2	74.0	11.9	9.8
3	5440.5	50.3	52.6	36.4	31.8	5.0	0.0	59.9	62.2	74.0	14.1	11.8
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
4	11595.7	62.3	60.3	38.8	40.3	7.6	0.2	59.1	57.1	74.0	14.9	16.9
5	17396.0	49.2	48.7	46.2	42.0	10.0	5.5	59.4	58.9	74.0	14.6	15.1
6	23193.5	56.1	54.8	39.6	39.4	11.1	0.0	57.9	56.6	74.0	16.1	17.4
Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
7	28994.7	44.0	42.1	44.5	24.4	12.3	0.0	60.8	58.9	74.0	13.2	15.1
8	34793.7	47.1	46.2	43.4	24.5	13.4	0.0	63.8	62.9	74.0	10.2	11.1

AV DETECT (RBW: 1MHz, VBW: 10Hz)

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	4867.6	32.3	32.5	36.1	31.8	4.7	0.0	41.3	41.5	54.0	12.7	12.5
2	5225.1	32.6	33.1	36.6	31.8	4.9	0.0	42.3	42.8	54.0	11.7	11.2
3	5440.5	31.2	31.8	36.4	31.8	5.0	0.0	40.8	41.4	54.0	13.2	12.6
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
4	11595.7	40.8	39.9	38.8	40.3	7.6	0.2	37.6	36.7	54.0	16.4	17.3
5	17396.0	36.7	36.0	46.2	42.0	10.0	5.5	46.9	46.2	54.0	7.1	7.8
6	23193.5	34.5	33.4	39.6	39.4	11.1	0.0	36.3	35.2	54.0	17.7	18.8
Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
7	28994.7	35.3	34.9	44.5	24.4	12.3	0.0	52.1	51.7	54.0	1.9	2.3
8	34793.7	34.8	34.0	43.4	24.5	13.4	0.0	51.5	50.7	54.0	2.5	3.3

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

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

*In the frequency over the fifth harmonic, the noise from the EUT was not seen. The data above is its base noise.

*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
Tx High

UL Apex Co., Ltd.

Head Office EMC Lab. No.1 Semi Anechoic Chamber

Company : Panasonic Communications Co.,Ltd.
Equipment : Cordless Telephone (Portable Unit)
Model : KX-TGA572 (Handset)
Sample No. : 2
Power : DC2.4V
Mode : Tx 5838.18697MHz
Remarks : Hor : Z-axis / Ver : Y-axis

REPORT NO : 26HE0117-HO
REGULATION : FCC Part15 Subpart C 15.247(d)
TEST DISTANCE : 3m / 1m / 0.5m
DATE : 03/31/2006 04/03/2006
TEMPERATURE : 23deg.C 25 deg.C.
HUMIDITY : 30% 35 %
ENGINEER : Kenichi Adachi Norihisa Hashimoto

PK DETECT (RBW: 1MHz, VBW: 1MHz)

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2474.0	58.9	56.6	30.4	32.4	3.5	0.0	60.4	58.1	74.0	13.6	15.9
2	4948.6	52.4	52.0	36.6	31.8	4.8	0.0	62.0	61.6	74.0	12.0	12.4
3	5438.0	47.8	49.4	36.4	31.8	5.0	0.0	57.4	59.0	74.0	16.6	15.0
4	5641.0	47.7	51.1	36.4	31.8	5.1	0.0	57.4	60.8	74.0	16.6	13.2
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
5	11676.5	60.6	61.5	39.1	40.3	7.8	0.3	58.0	58.9	74.0	16.0	15.1
6	17514.6	57.2	53.7	46.2	42.1	10.1	6.2	68.1	64.6	74.0	5.9	9.4
7	23355.0	55.0	54.7	39.4	39.3	11.2	0.0	56.8	56.5	74.0	17.2	17.5
Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
8	29189.0	40.3	40.6	44.5	24.4	12.3	0.0	57.1	57.4	74.0	16.9	16.6
9	35027.0	41.9	42.5	44.3	24.4	13.6	0.0	59.8	60.4	74.0	14.2	13.6

AV DETECT (RBW: 1MHz, VBW: 10Hz)

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2474.0	41.0	40.4	30.4	32.4	3.5	0.0	42.5	41.9	54.0	11.5	12.1
2	4948.6	33.2	33.3	36.6	31.8	4.8	0.0	42.8	42.9	54.0	11.2	11.1
3	5438.0	30.6	31.0	36.4	31.8	5.0	0.0	40.2	40.6	54.0	13.8	13.4
4	5641.0	30.1	30.4	36.4	31.8	5.1	0.0	39.8	40.1	54.0	14.2	13.9
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
5	11676.5	36.0	39.8	39.1	40.3	7.8	0.3	33.4	37.2	54.0	20.6	16.8
6	17514.6	38.7	36.8	46.2	42.1	10.1	6.2	49.6	47.7	54.0	4.4	6.3
7	23355.0	32.0	31.8	39.4	39.3	11.2	0.0	33.8	33.6	54.0	20.2	20.4
Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
8	29189.0	35.1	35.0	44.5	24.4	12.3	0.0	51.9	51.8	54.0	2.1	2.2
9	35027.0	33.6	33.7	44.3	24.4	13.6	0.0	51.5	51.6	54.0	2.5	2.4

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

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

*In the frequency over the fifth harmonic, the noise from the EUT was not seen. The data above is its base noise.

*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.

UL Apex Co., Ltd.

Head Office EMC Lab.

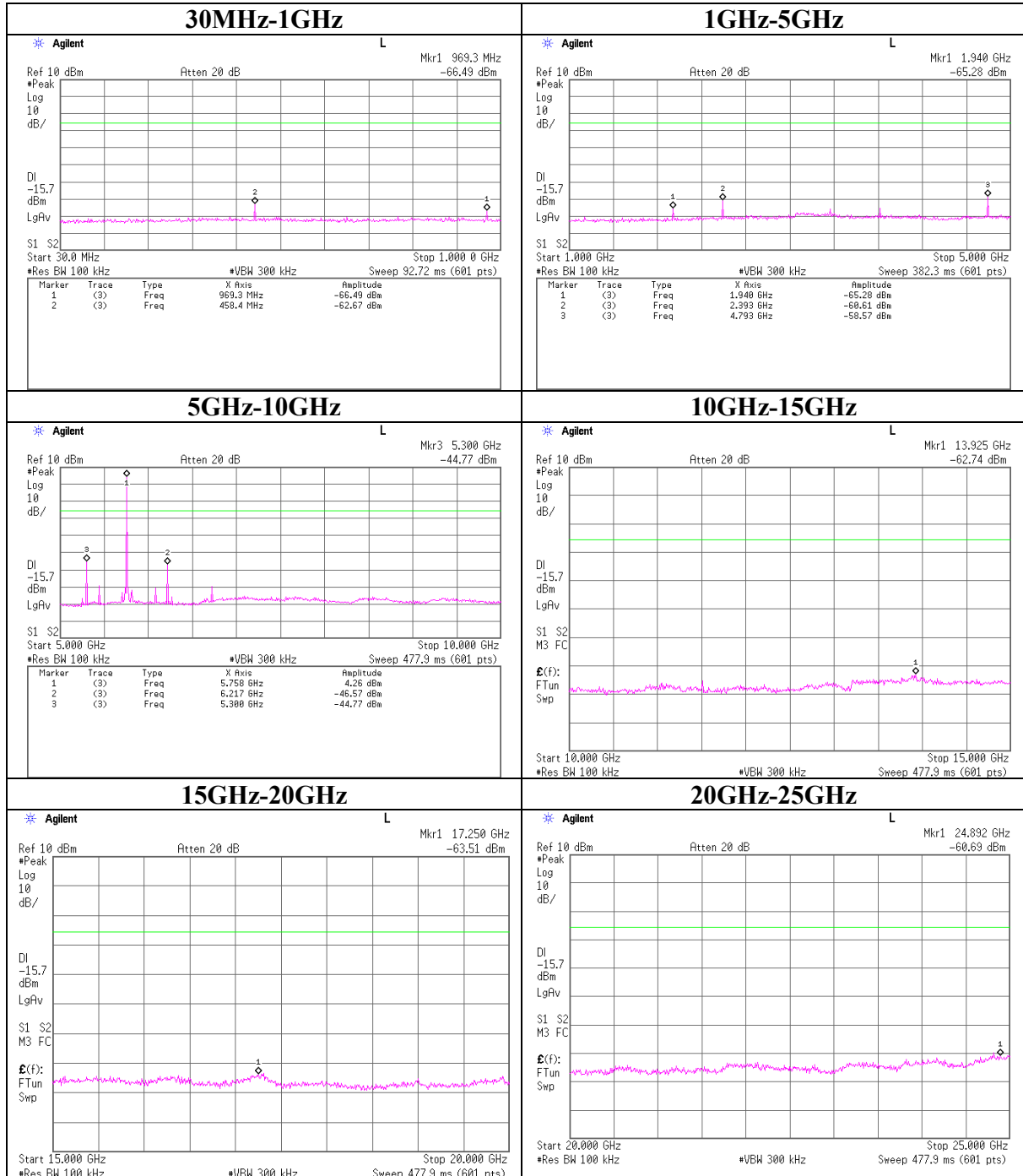
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone : +81 596 24 8116

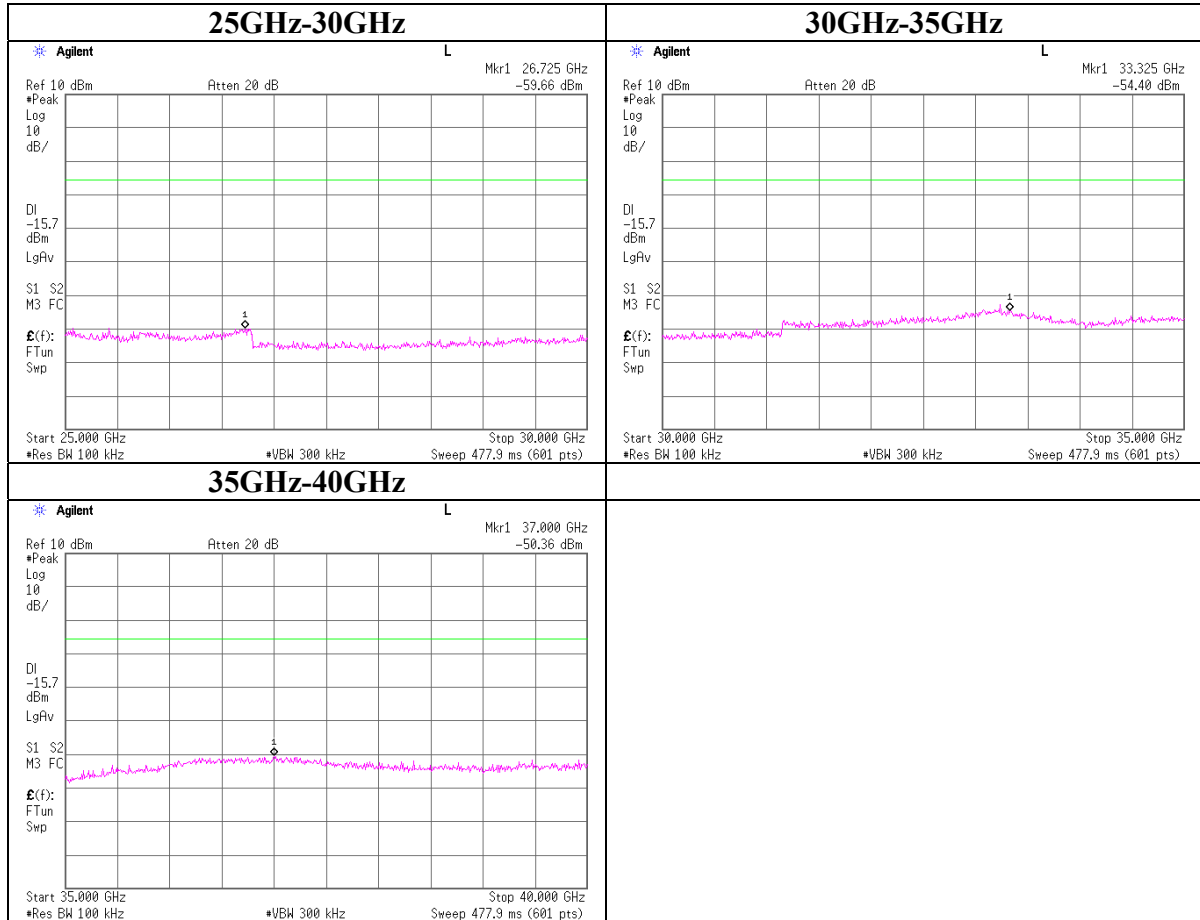
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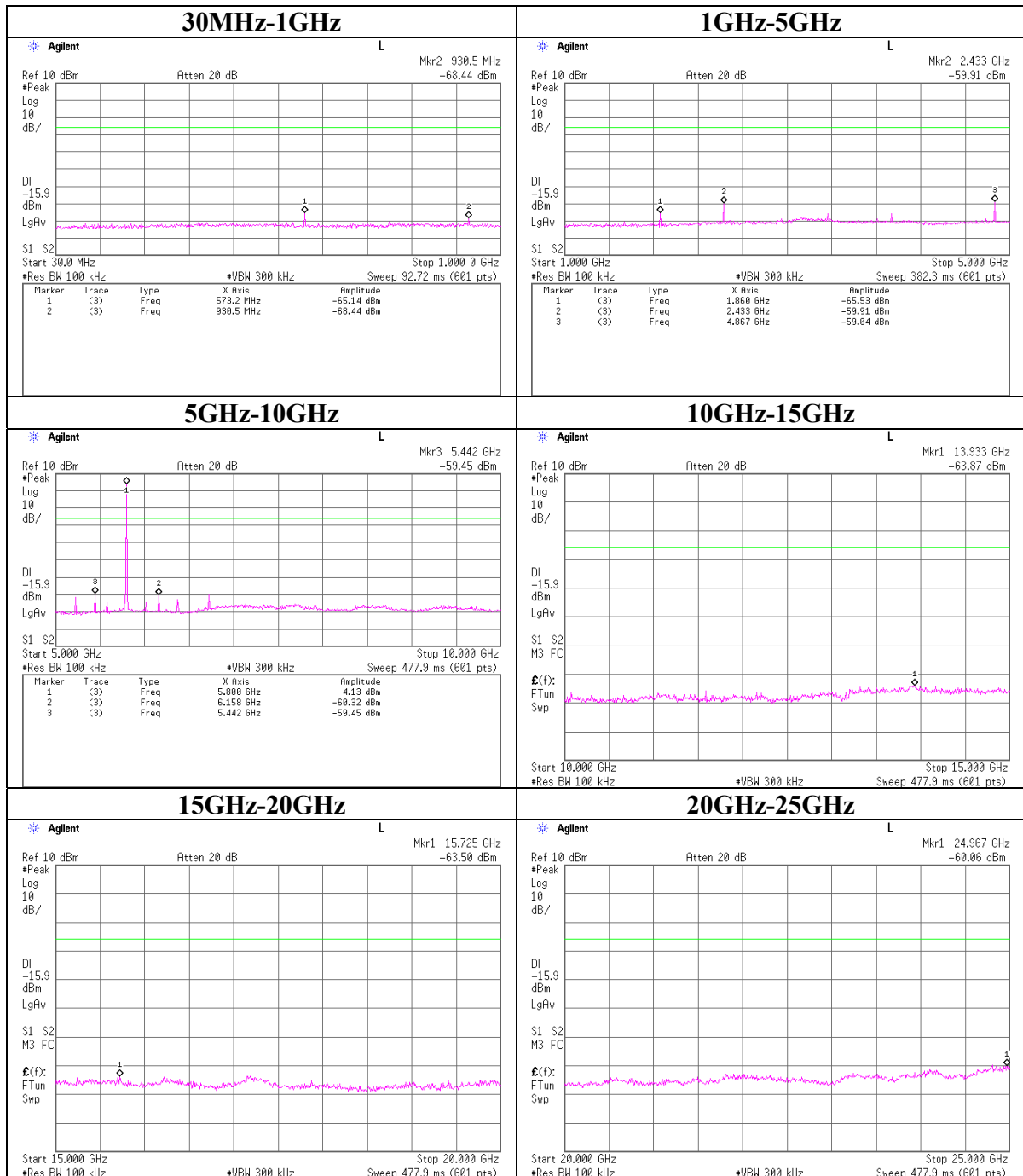
Conducted Spurious Emission
Ch:Low



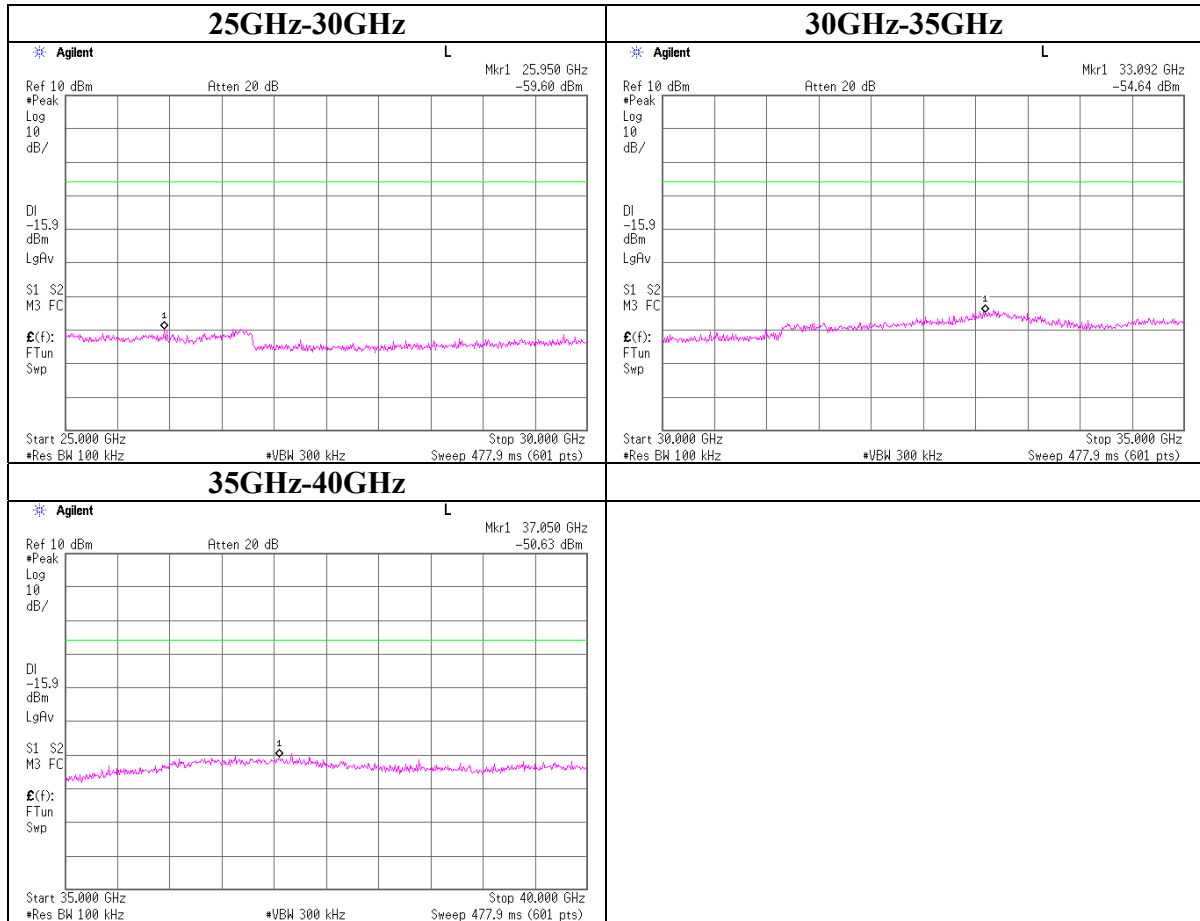
Conducted Spurious Emission
Ch:Low



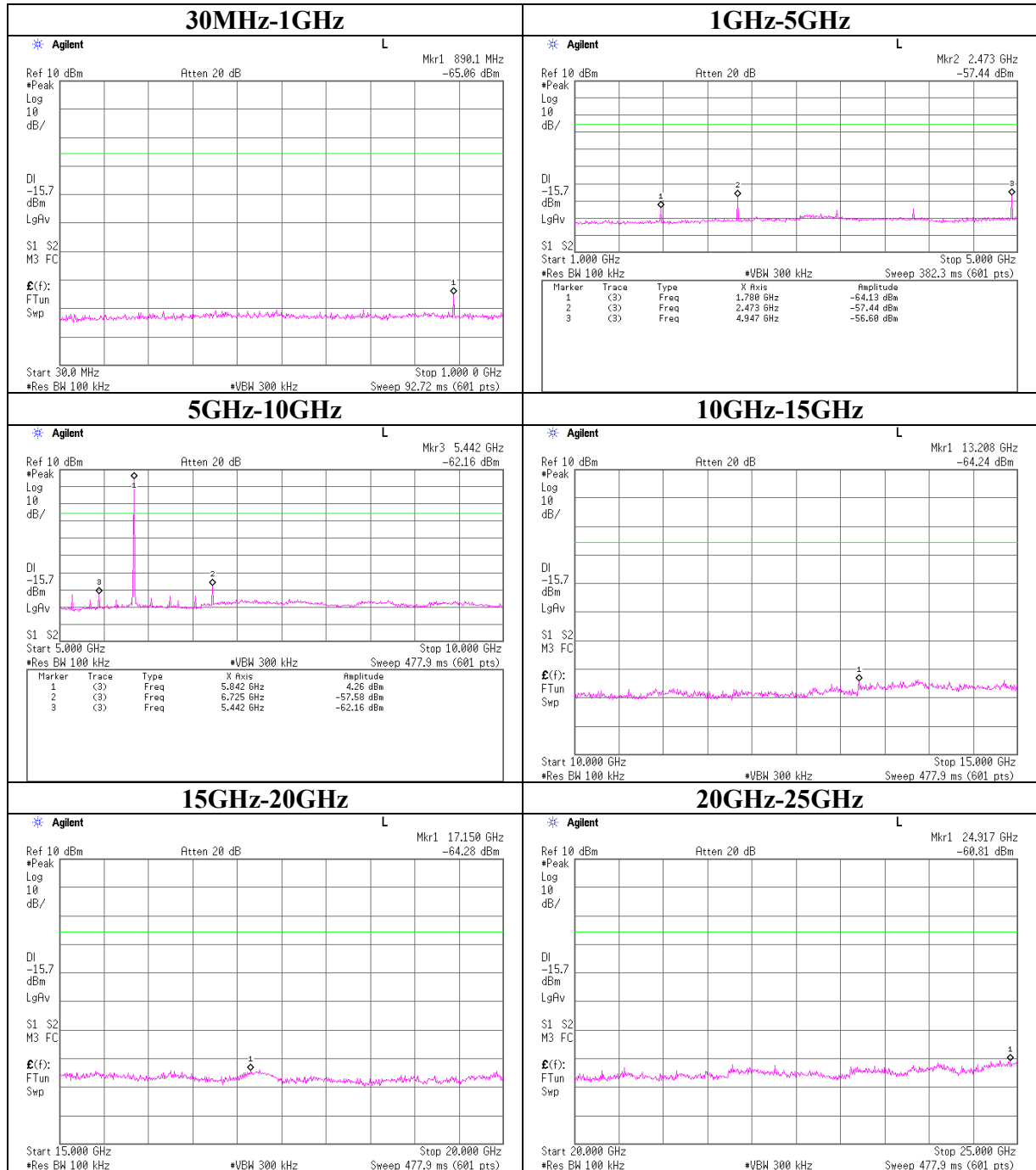
Conducted Spurious Emission Ch:Mid



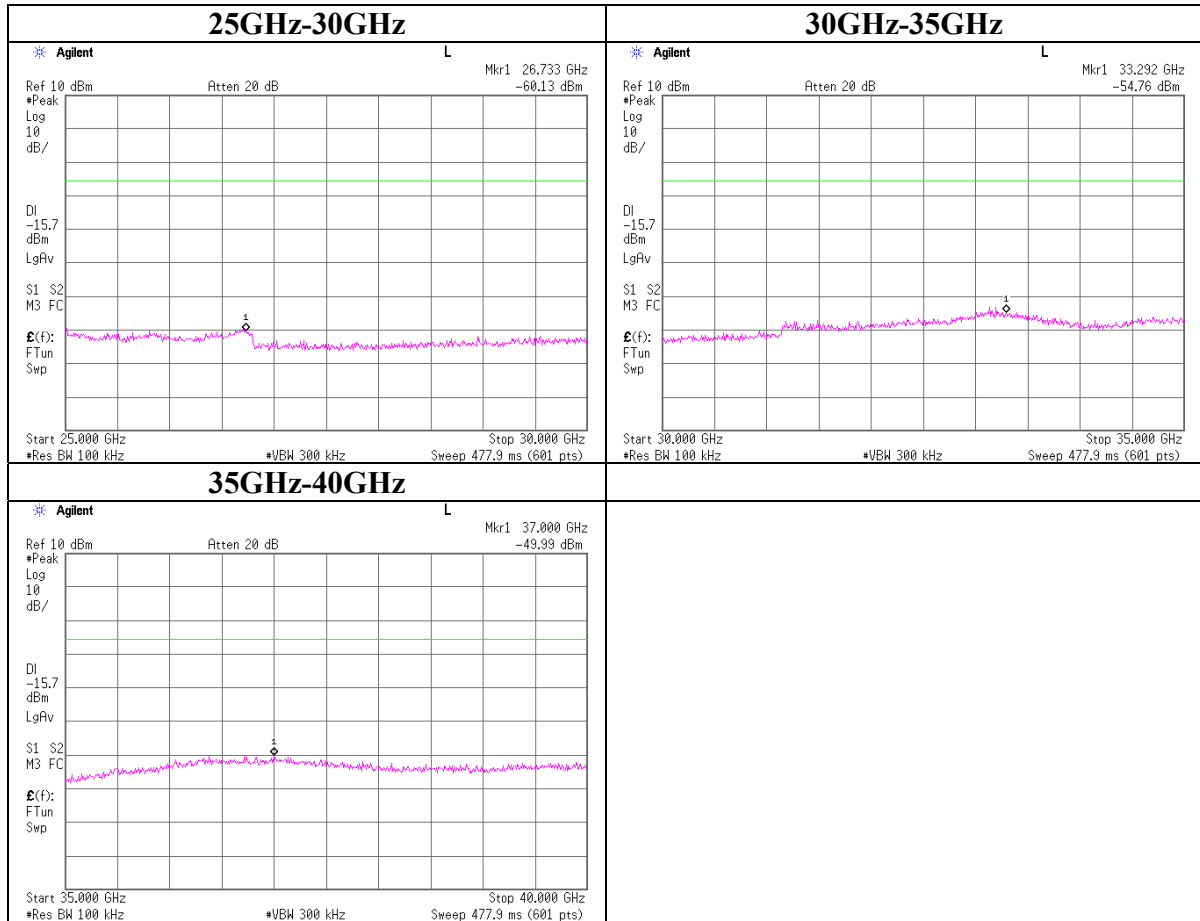
Conducted Spurious Emission
Ch:Mid



Conducted Spurious Emission
Ch:High



Conducted Spurious Emission
Ch:High



Conducted Spurious Emission Band Edge compliance

