

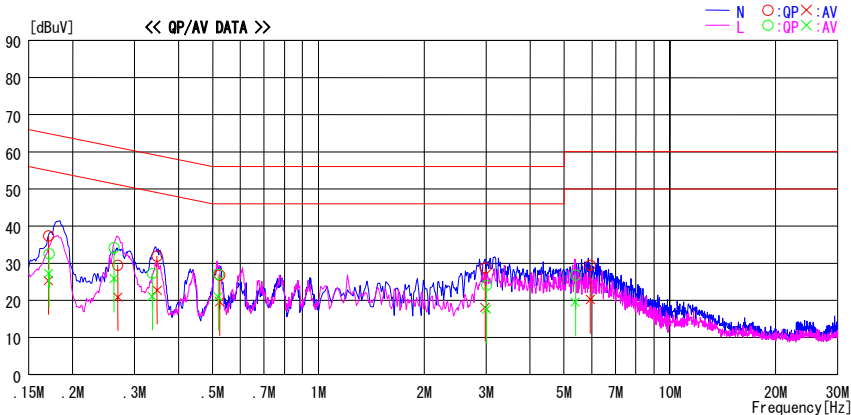
APPENDIX 2: Data of EMI test

Conducted Emission

DATA OF CONDUCTED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2007/02/10

Company : Brother Industries, Ltd.
Kind of EUT : Cordless Handset
Model No. : BCL-D10
Serial No. : 0003
Report No. : 27GE0058-H0
Power : DC 3.6V (AC 120V / 60Hz)
Temp./Humi. : 24deg. C / 32%
Operator : Hisayoshi Sato
Mode / Remarks : Communication mode
LIMIT : FCC15.207 QP
FCC15.207 AV



Frequency [MHz]	Reading Level		Corr. Factor	Results		Limit		Margin		Phase
	QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dB]	AV [dB]	
0.17075	37.2	25.1	0.2	37.4	25.3	64.9	54.9	27.5	29.6	N
0.17100	32.4	27.0	0.2	32.6	27.2	64.9	54.9	32.3	27.7	L
0.26230	33.9	25.6	0.3	34.2	25.9	61.4	51.4	27.2	25.5	L
0.26870	29.2	20.6	0.3	29.5	20.9	61.2	51.2	31.7	30.3	N
0.33700	27.0	20.8	0.3	27.3	21.1	59.3	49.3	32.0	28.2	L
0.34780	31.6	22.4	0.3	31.9	22.7	59.0	49.0	27.1	26.3	N
0.51930	26.7	20.7	0.3	27.0	21.0	56.0	46.0	29.0	25.0	L
0.52362	26.5	19.3	0.3	26.8	19.6	56.0	46.0	29.2	26.4	N
2.98183	28.0	17.4	0.7	28.7	18.1	56.0	46.0	27.3	27.9	N
3.00552	23.3	16.8	0.8	24.1	17.6	56.0	46.0	31.9	28.4	L
5.38333	25.7	18.4	1.1	26.8	19.5	60.0	50.0	33.2	30.5	L
5.93810	28.3	19.0	1.2	29.5	20.2	60.0	50.0	30.5	29.8	N

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.

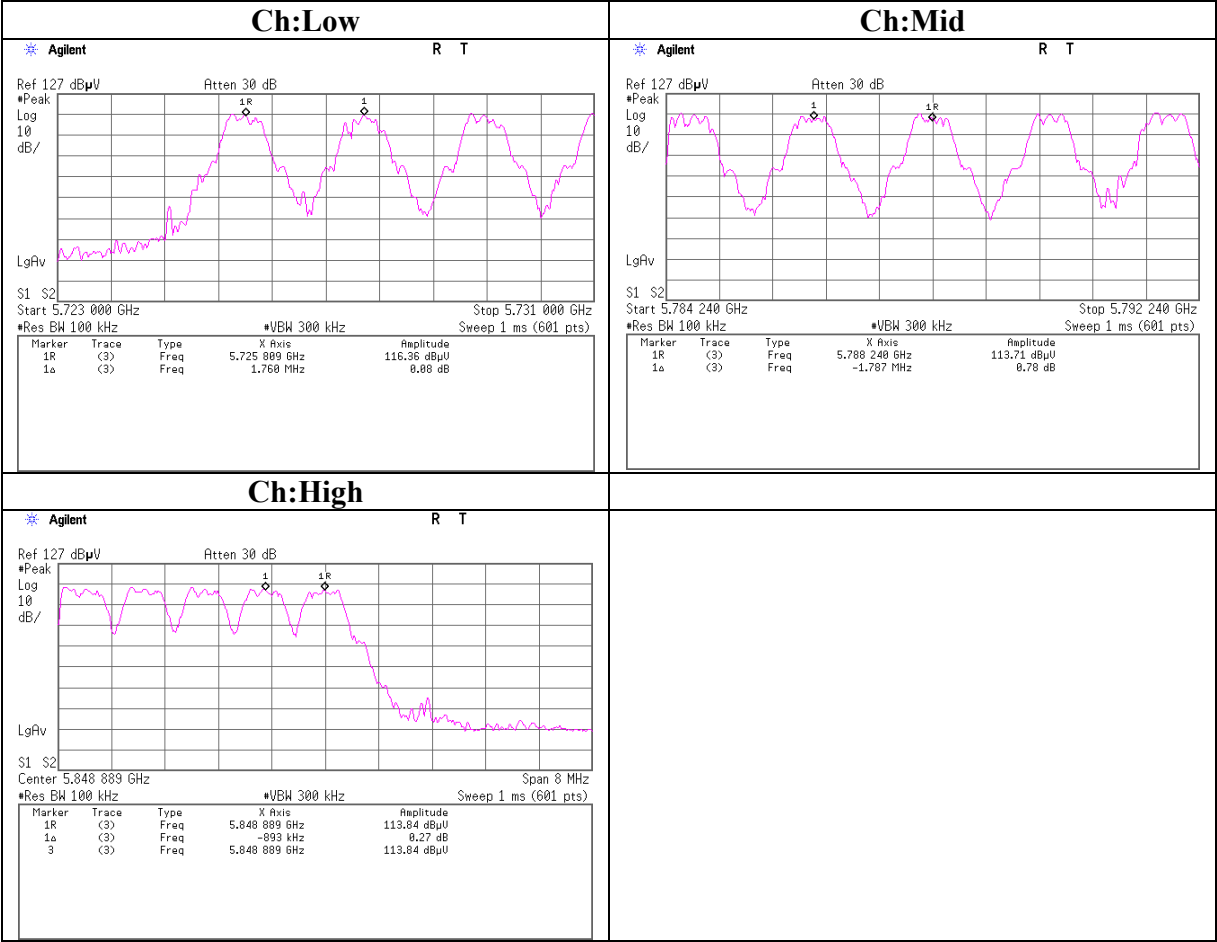
Carrier Frequency Separation

UL Apex Co., Ltd.
Head Office EMC Lab. No.7 Shielded Room

COMPANY	: Brother Industries, Ltd.	REGULATION	: FCC15.247(a)(1)/RSS-210A8.1(2)
EQUIPMENT	: Digital Cordless Handset	TEST DISTANCE	: -
MODEL	: BCL-D10	DATE	: 02/07/2007
S/ N	: 0003	TEMPERATURE	: 24deg.C
POWER	: DC3.6V	HUMIDITY	: 32%
MODE	: Tx(Hopping on)	ENGINEER	: Hisayoshi Sato

Ch	Freq. [MHz]	Channel separation [MHz]	Limit
Low	5725.809	1.760	>0.795 [MHz] (20dB Bandwidth) or 25[kHz](whichever is greater)
Mid	5788.240	1.787	>0.745 [MHz] (20dB Bandwidth) or 25[kHz](whichever is greater)
High	5848.889	0.893	>0.753 [MHz] (20dB Bandwidth) or 25[kHz](whichever is greater)

Carrier Frequency Separation



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FCC ID : B3QBCLD10A

20dB Bandwidth

UL Apex Co., Ltd.
Head Office EMC Lab. No.7 Shielded Room

COMPANY : Brother Industries,Ltd.
EQUIPMENT : Digital Cordless Handset
MODEL : BCL-D10
S/ N : 0003
POWER : DC3.6V
MODE : Tx (Hopping off)

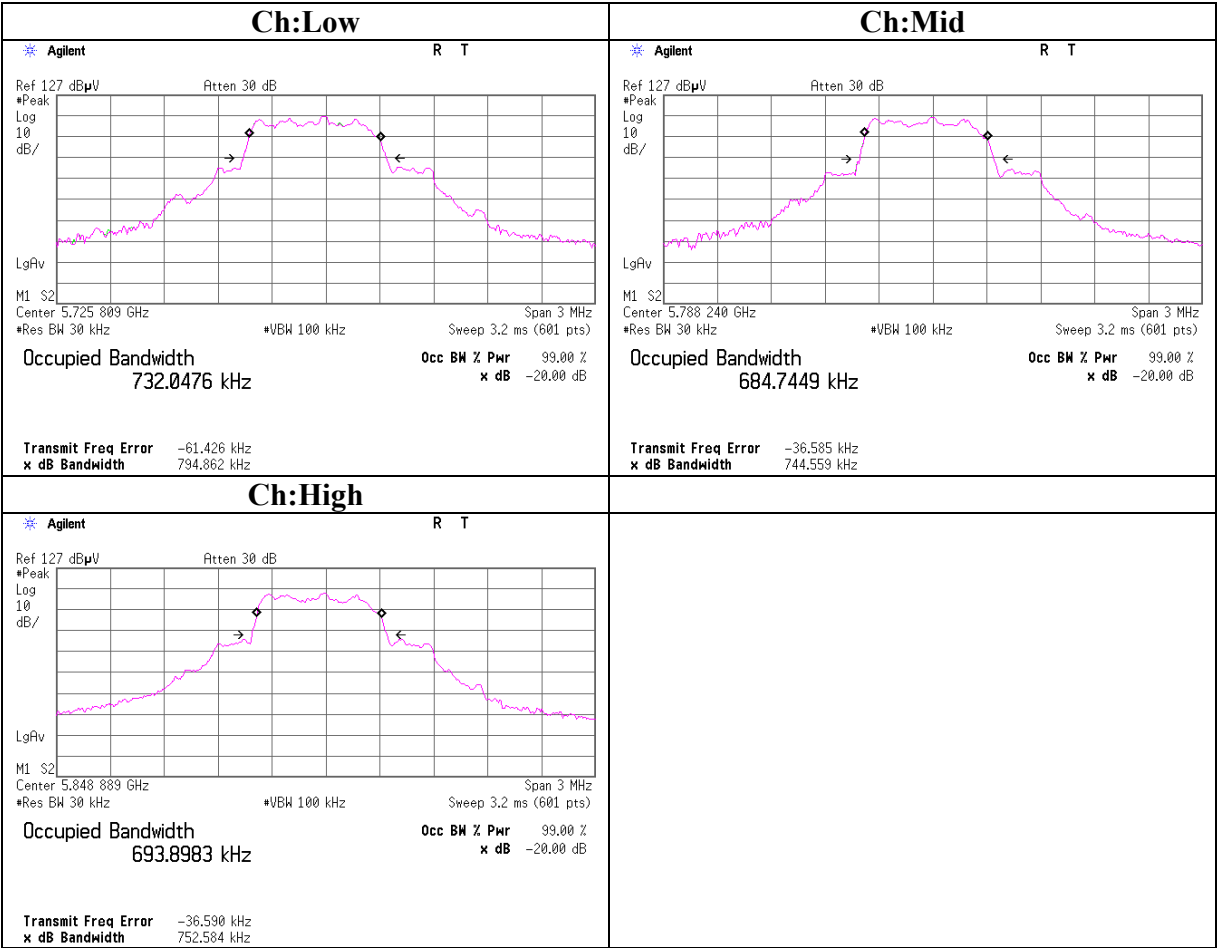
REGULATION : FCC15.247(a)(1)/RSS-210A8.1(1)
TEST DISTANCE : -
DATE : 02/07/2007
TEMPERATURE : 24deg.C
HUMIDITY : 32%
ENGINEER : Hisayoshi Sato

Ch	Freq. [MHz]	20dB Bandwidth [MHz]	Limit [MHz]
Low	5725.809	0.795	-
Mid	5788.240	0.745	-
High	5848.889	0.753	-

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MF060b(14.06.06)

20dB Bandwidth



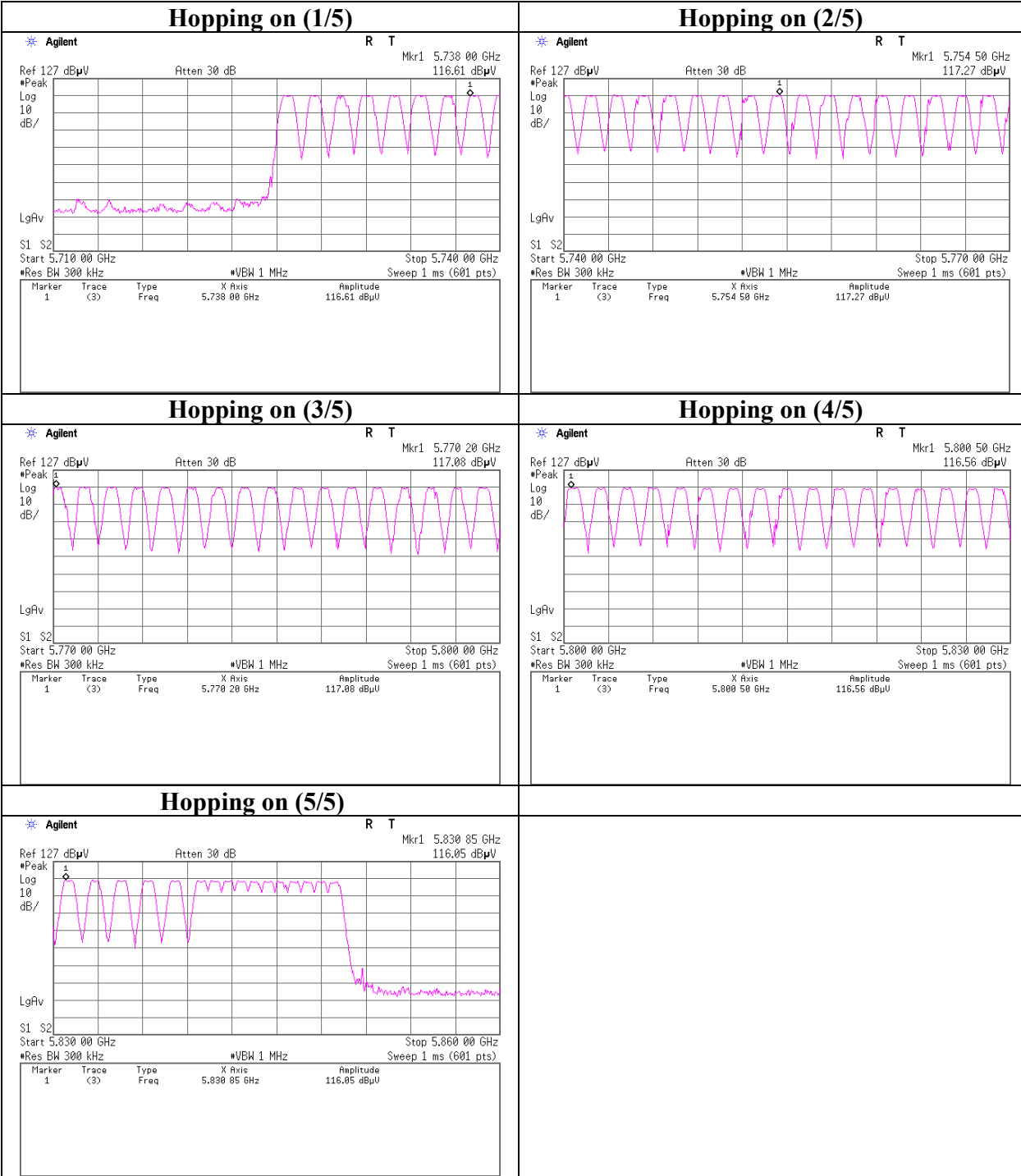
Number of Hopping Frequency

UL Apex Co., Ltd.
Head Office EMC Lab. No.7 Shielded Room

COMPANY	: Brother Industries,Ltd.	REGULATION	: FCC15.247(a)(1)(ii)/RSS-210A8.1(5)
EQUIPMENT	: Digital Cordless Handset	TEST DISTANCE	: -
MODEL	: BCL-D10	DATE	: 02/07/2007
S/ N	: 0003	TEMPERATURE	: 24deg.C
POWER	: DC3.6V	HUMIDITY	: 32%
MODE	: Tx(Hopping on)	ENGINEER	: Hisayoshi Sato

Mode	Number of channel	Limit
	[time]	[time]
Tx(Hopping on)	75	≥ 15

Number of Hopping Frequency



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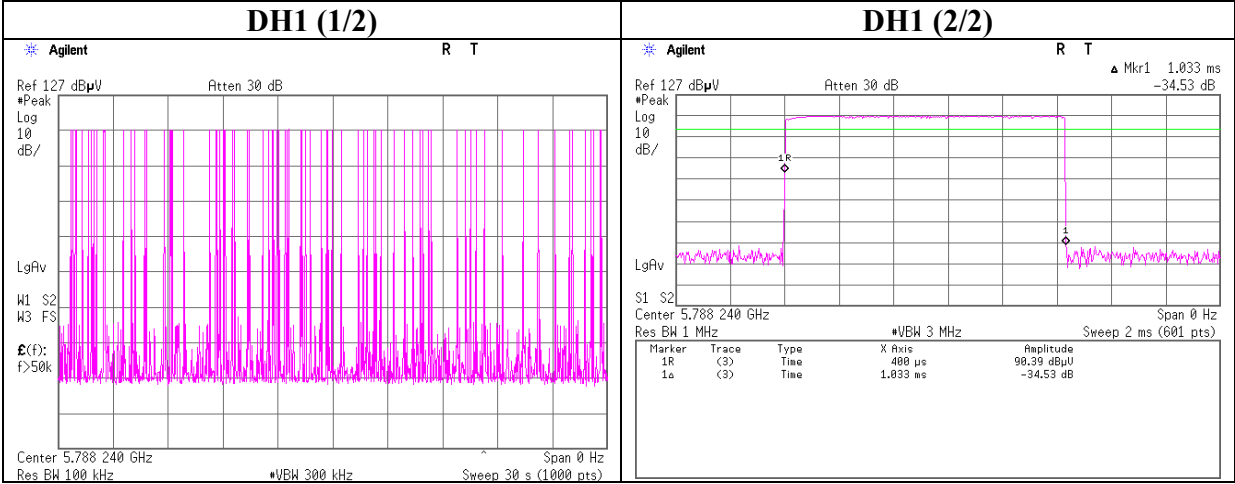
Dwell time

UL Apex Co., Ltd.
Head Office EMC Lab. No.7 Shielded Room

COMPANY	: Brother Industries, Ltd.	REGULATION	: FCC15.247(a)(1)(ii)/RSS-210A8.1(5)
EQUIPMENT	: Digital Cordless Handset	TEST DISTANCE	: -
MODEL	: BCL-D10	DATE	: 02/07/2007
S/N	: 0003	TEMPERATURE	: 24deg.C
POWER	: DC3.6V	HUMIDITY	: 32%
MODE	: Tx(Hopping on)	ENGINEER	: Hisayoshi Sato

Mode	Number of transmission in a 30.0(75 Hopping x 0.4)	Length of transmission time [msec]	Result [msec]	Limit [msec]
Hopping on (M-ch)	69 times	1.033	71	400

Dwell time



Maximum Peak Output Power

UL Apex Co., Ltd.
Head Office EMC Lab. No.7 Shielded Room

COMPANY : Brother Industries,Ltd.
EQUIPMENT : Digital Cordless Handset
MODEL : BCL-D10
S/ N : 0003
POWER : DC3.6V
MODE : Tx(Hopping Off)

REGULATION : FCC Part15 Subpart C 15.247(b)(1)/RSS-210 A8.4 (3)
TEST DISTANCE : -
DATE : 02/15/2007
TEMPERATURE : 24deg.C
HUMIDITY : 34%
ENGINEER : Hisayoshi Sato

Ch	Freq. [MHz]	P/M Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result		Limit		Margin [dB]
					[dBm]	[mW]	[dBm]	[mW]	
Low (ch1)	5725.809328	8.70	0.66	9.90	19.26	84.33	29.90	977	10.64
Mid (ch71)	5788.240269	8.66	0.68	9.89	19.23	83.75	29.90	977	10.67
High (ch139)	5848.889420	7.04	0.68	9.89	17.61	57.68	29.90	977	12.29

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.

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Revised date : March 7, 2007
FCC ID : B3QBCLD10A

Radiated Spurious Emission (below 1GHz)

Tx, Ch. 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

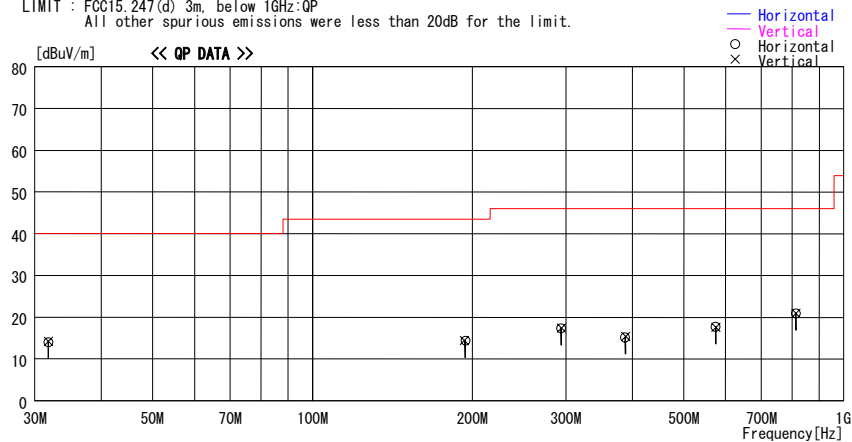
UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2007/02/10

Company : Brother Industries, Ltd. Report No. : 27GE0058-HO
Kind of EUT : Cordless Handset Power : DC 3.6V
Model No. : BCL-D10 Temp./Humi. : 24deg.C / 32%
Serial No. : 0003 Operator : Hisayoshi Sato

Mode / Remarks : Tx ch1 5725.809MHz / Max-axis(H:Z/V:Y)

LIMIT : FCC15.247(d) 3m, below 1GHz:QP

All other spurious emissions were less than 20dB for the limit.



Frequency [MHz]	Reading [dBuV]	DET	Antenna		Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV/m]	Margin [dB]	Comment
			Factor [dB]	Loss [dB]							
31.800	28.6	QP	18.0	-32.5	14.1	136	300	Hori.	40.0	25.9	
31.800	28.7	QP	18.0	-32.5	14.2	277	100	Vert.	40.0	25.8	
193.349	28.8	QP	17.1	-31.5	14.4	14	100	Vert.	43.5	29.1	
194.249	28.7	QP	17.2	-31.5	14.4	226	300	Hori.	43.5	29.1	
293.700	28.5	QP	19.7	-30.8	17.4	217	300	Hori.	46.0	28.6	
294.150	28.5	QP	19.7	-30.8	17.4	208	100	Vert.	46.0	28.6	
387.499	28.3	QP	17.5	-30.6	15.2	170	100	Hori.	46.0	30.8	
388.666	28.4	QP	17.6	-30.6	15.4	4	100	Vert.	46.0	30.6	
574.166	28.0	QP	19.3	-29.6	17.7	8	100	Hori.	46.0	28.3	
575.333	27.9	QP	19.3	-29.6	17.6	329	100	Vert.	46.0	28.4	
812.170	27.7	QP	22.0	-28.8	20.9	0	100	Hori.	46.0	25.1	
813.337	27.7	QP	22.0	-28.8	20.9	6	100	Vert.	46.0	25.1	

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)

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MF060b(14.06.06)

Radiated Spurious Emission (below 1GHz)

Tx, Ch. 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

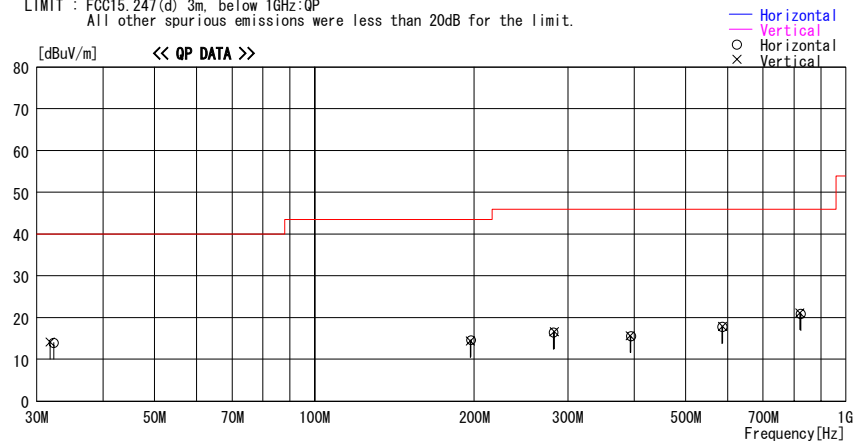
UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2007/02/10

Company : Brother Industries, Ltd. Report No. : 27GE0058-HO
Kind of EUT : Cordless Handset Power : DC 3.6V
Model No. : BCL-D10 Temp./Humi. : 24deg.C. / 32%
Serial No. : 0003 Operator : Hisayoshi Sato

Mode / Remarks : Tx ch71 5788.240MHz / Max-axis(H:Z/V:Y)

LIMIT : FCC15.247(d) 3m, below 1GHz:QP

All other spurious emissions were less than 20dB for the limit.



Frequency	Reading	DET	Antenna Factor	Loss Gain	Level	Angle	Height	Polar.	Limit	Margin	Comment
[MHz]	[dBuV]		[dB/m]	[dB]	[dBuV/m]	[Deg]	[cm]		[dBuV/m]	[dB]	
31.800	28.6	QP	18.0	-32.5	14.1	13	100	Vert.	40.0	25.9	
32.250	28.7	QP	17.8	-32.5	14.0	349	300	Hori.	40.0	26.0	
196.499	28.6	QP	17.2	-31.4	14.4	229	100	Vert.	43.5	29.1	
196.949	28.7	QP	17.3	-31.4	14.6	21	300	Hori.	43.5	28.9	
282.000	28.5	QP	18.9	-31.0	16.4	219	300	Hori.	46.0	29.6	
282.900	28.4	QP	19.0	-30.8	16.6	353	100	Vert.	46.0	29.4	
393.333	28.4	QP	17.7	-30.5	15.6	120	100	Vert.	46.0	30.4	
394.499	28.4	QP	17.7	-30.5	15.6	75	100	Hori.	46.0	30.4	
585.833	28.0	QP	19.4	-29.6	17.8	53	100	Hori.	46.0	28.2	
587.000	28.1	QP	19.4	-29.6	17.9	153	100	Vert.	46.0	28.1	
821.504	27.9	QP	22.0	-28.8	21.1	239	100	Vert.	46.0	24.9	
823.837	27.7	QP	22.0	-28.8	20.9	55	100	Hori.	46.0	25.1	

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)

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Radiated Spurious Emission (below 1GHz)

Tx, Ch. 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

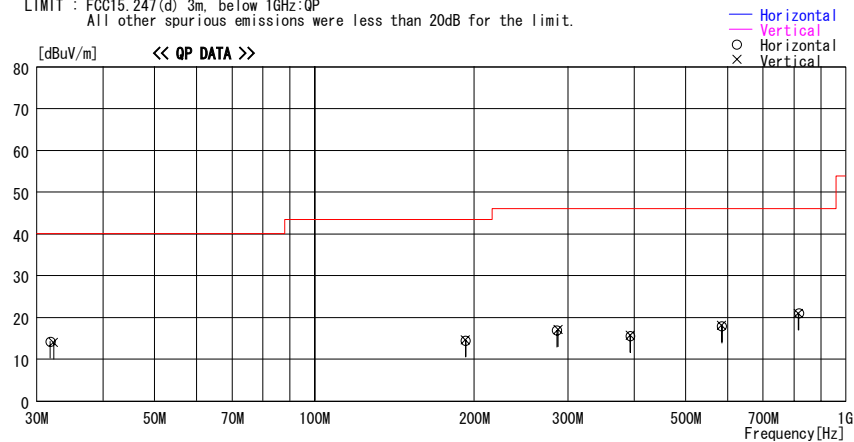
UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2007/02/10

Company : Brother Industries, Ltd. Report No. : 27GE0058-HO
Kind of EUT : Cordless Handset Power : DC 3.6V
Model No. : BCL-D10 Temp./Humi. : 24deg.C. / 32%
Serial No. : 0003 Operator : Hisayoshi Sato

Mode / Remarks : Tx ch139 5848.889MHz / Max-axis(H:Z/V:Y)

LIMIT : FCC15.247(d) 3m, below 1GHz:QP

All other spurious emissions were less than 20dB for the limit.



Frequency	Reading	DET	Antenna Factor	Loss & Gain	Level	Angle	Height	Polar.	Limit	Margin	Comment
[MHz]	[dBuV]		[dB/m]	[dB]	[dBuV/m]	[Deg]	[cm]		[dBuV/m]	[dB]	
31.800	28.7	QP	18.0	-32.5	14.2	17	300	Hori.	40.0	25.8	
32.250	28.7	QP	17.8	-32.5	14.0	93	100	Vert.	40.0	26.0	
192.449	28.9	QP	17.1	-31.5	14.5	222	300	Hori.	43.5	29.0	
192.449	29.0	QP	17.1	-31.5	14.6	48	100	Vert.	43.5	28.9	
286.050	28.5	QP	19.2	-30.8	16.9	171	300	Hori.	46.0	29.1	
287.850	28.6	QP	19.3	-30.8	17.1	336	100	Vert.	46.0	28.9	
393.333	28.4	QP	17.7	-30.5	15.6	16	100	Hori.	46.0	30.4	
393.333	28.5	QP	17.7	-30.5	15.7	57	100	Vert.	46.0	30.3	
584.666	28.1	QP	19.4	-29.6	17.9	278	100	Hori.	46.0	28.1	
584.666	28.3	QP	19.4	-29.6	18.1	13	100	Vert.	46.0	27.9	
814.503	27.8	QP	22.0	-28.8	21.0	137	100	Vert.	46.0	25.0	
816.837	27.8	QP	22.0	-28.8	21.0	298	100	Hori.	46.0	25.0	

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)

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MF060b(14.06.06)

Test report No. : 27GE0058-HO-A-2
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Radiated Spurious Emission (above 1GHz)
Tx, Ch. Low

UL Apex Co., Ltd.

Head Office EMC Lab. No.2 Semi Anechoic Chamber

Company : Brother Industries, Ltd.

Equipment : Cordless Handset

Model : BCL-D10

Sample No. : 0003

Power : DC3.6V

Mode : Bluetooth, Tx 5725.809MHz

Remarks : Worst axis Hori: Z-axis, Vert: Y-axis

REPORT NO

REGULATION

TEST DISTANCE

DATE

TEMPERATURE

HUMIDITY

ENGINEER

: 27GE0058-HO

: Fcc Part15 Subpart C 15.247(d)

: 3/1/0.5m

: 02/09/2007

: 24deg.C

: 32%

: Hisayoshi Sato

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
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2400.0	44.3	46.0	27.1	32.3	3.1	0.0	42.2	43.9	73.9	31.7	30.0
2	4799.7	53.2	54.2	31.2	31.6	4.2	0.0	57.0	58.0	73.9	16.9	15.9
3	5175.0	41.4	40.9	31.7	31.5	4.3	0.0	45.9	45.4	73.9	28.0	28.5
4*	5725.0	111.7	111.4	32.0	31.5	4.5	0.0	116.8	116.5	73.9	-	-
5	6052.3	46.6	46.2	32.5	31.4	4.6	0.0	52.3	51.9	73.9	21.6	22.0
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
6	11453.3	49.7	51.9	40.2	31.1	6.4	0.7	56.4	58.6	73.9	17.5	15.3
7	17173.2	56.9	55.0	41.7	30.0	8.3	0.8	68.2	66.3	73.9	5.7	7.6
8	22901.4	53.6	52.4	41.0	30.7	9.5	0.6	64.5	63.3	73.9	9.4	10.6
Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
9	28629.4	50.9	53.1	43.1	29.4	6.8	0.0	55.8	58.0	73.9	18.1	15.9
10	34354.9	45.8	50.4	43.4	28.3	7.7	0.0	53.0	57.6	73.9	20.9	16.3

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
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2400.0	35.2	32.2	27.1	32.3	3.1	0.0	33.1	30.1	53.9	20.8	23.8
2	4799.7	43.8	42.5	31.2	31.6	4.2	0.0	47.6	46.3	53.9	6.3	7.6
3	5175.0	28.9	29.2	31.7	31.5	4.3	0.0	33.4	33.7	53.9	20.5	20.2
4*	5725.0	48.7	43.3	32.0	31.5	4.5	0.0	53.8	48.4	53.9	0.1	5.5
5	6052.3	34.7	35.3	32.5	31.4	4.6	0.0	40.4	41.0	53.9	13.5	12.9
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
6	11453.3	31.7	32.4	40.2	31.1	6.4	0.7	38.4	39.1	53.9	15.5	14.8
7	17173.2	35.1	34.9	41.7	30.0	8.3	0.8	46.4	46.2	53.9	7.5	7.7
8	22901.4	35.0	34.8	41.0	30.7	9.5	0.6	45.9	45.7	53.9	8.0	8.2
Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
9	28629.4	25.4	25.4	43.1	29.4	6.8	0.0	30.3	30.3	53.9	23.6	23.6
10	34354.9	27.2	27.8	43.4	28.3	7.7	0.0	34.4	35.0	53.9	19.5	18.9

* Reference data

20dBc(Fundamental 5725.809328MI)(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
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
0	5725.8	115.3	114.1	32.0	31.5	4.5	0.0	120.4	119.2	-	-	-
4	5725.0	74.1	71.0	32.0	31.5	4.5	0.0	79.2	76.1	Funda-20dB	21.2	23.1

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

Test Distance 0.5m : Distance Factor(Dfac) = 20log(3/0.5) = 15.6dB

*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.

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MF060b(14.06.06)

Test report No. : 27GE0058-HO-A-2
Page : 29 of 38
Issued date : February 26, 2007
Revised date : March 7, 2007
FCC ID : B3QBCLD10A

Radiated Spurious Emission (above 1GHz)

Tx, Ch. Mid

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

Company : Brother Industries, Ltd.	REPORT NO : 27GE0058-HO
Equipment : Cordless Handset	REGULATION : Fcc Part15 Subpart C 15.247(d)
Model : BCL-D10	TEST DISTANCE : 3/1/0.5m
Sample No. : 0003	DATE : 02/09/2007
Power : DC3.6V	TEMPERATURE : 24deg.C
Mode : Bluetooth, Tx 5788.240MHz	HUMIDITY : 32%
Remarks : Worst axis Hori: Z-axis, Vert: Y-axis	ENGINEER : Hisayoshi Sato

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
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2428.9	43.1	46.0	27.2	32.3	3.1	0.0	41.1	44.0	73.9	32.8	29.9
2	4857.5	52.1	54.4	31.4	31.6	4.2	0.0	56.1	58.4	73.9	17.8	15.5
3	5221.8	41.2	50.1	31.7	31.5	4.3	0.0	45.7	54.6	73.9	28.2	19.3
4	6350.1	45.2	44.1	33.5	31.4	4.6	0.0	51.9	50.8	73.9	22.0	23.1
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
5	11576.1	52.7	52.4	40.0	31.1	6.4	0.7	59.2	58.9	73.9	14.7	15.0
6	17365.3	49.8	53.0	43.7	30.1	8.4	0.8	63.1	66.3	73.9	10.8	7.6
7	23153.0	53.7	51.7	41.0	30.7	9.6	0.0	64.1	62.1	73.9	9.8	11.8
Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
8	28941.2	49.5	54.5	43.2	29.5	7.0	0.0	54.6	59.6	73.9	19.3	14.3
9	34729.4	47.6	52.3	43.3	28.1	7.7	0.0	54.9	59.6	73.9	19.0	14.3

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
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2428.9	34.1	32.2	27.2	32.3	3.1	0.0	32.1	30.2	53.9	21.8	23.7
2	4857.5	43.2	33.8	31.4	31.6	4.2	0.0	47.2	37.8	53.9	6.7	16.1
3	5221.8	28.2	31.5	31.7	31.5	4.3	0.0	32.7	36.0	53.9	21.2	17.9
4	6350.1	34.1	33.2	33.5	31.4	4.6	0.0	40.8	39.9	53.9	13.1	14.0
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
5	11576.1	33.0	32.9	40.0	31.1	6.4	0.7	39.5	39.4	53.9	14.4	14.5
6	17365.3	34.0	34.6	43.7	30.1	8.4	0.8	47.3	47.9	53.9	6.6	6.0
7	23153.0	33.1	32.6	41.0	30.7	9.6	0.0	43.5	43.0	53.9	10.4	10.9
Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
8	28941.2	24.7	25.5	43.2	29.5	7.0	0.0	29.8	30.6	53.9	24.1	23.3
9	34729.4	28.2	28.5	43.3	28.1	7.7	0.0	35.5	35.8	53.9	18.4	18.1

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

Test Distance 0.5m : Distance Factor(Dfac) = 20log(3/0.5) = 15.6dB

*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.

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Page : 30 of 38
Issued date : February 26, 2007
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Radiated Spurious Emission (above 1GHz)

Tx, Ch. High

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

Company : Brother Industries, Ltd. REPORT NO : 27GE0058-HO
Equipment : Cordless Handset REGULATION : Fcc Part15 Subpart C 15.247(d)
Model : BCL-D10 TEST DISTANCE : 3/1/0.5m
Sample No. : 0003 DATE : 02/09/2007
Power : DC3.6V TEMPERATURE : 24deg.C
Mode : Bluetooth, Tx 5848.889MHz HUMIDITY : 32%
Remarks : Worst axis Hori: Z-axis, Vert: Y-axis ENGINEER : Hisayoshi Sato

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
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2489.1	44.7	46.4	27.2	32.3	2.8	0.0	42.4	44.1	73.9	31.5	29.8
2	4978.3	60.3	60.2	31.6	31.6	4.3	0.0	64.6	64.5	73.9	9.3	9.4
3	5101.0	50.9	56.1	31.7	31.5	4.3	0.0	55.4	60.6	73.9	18.5	13.3
4	5433.2	48.6	46.4	31.8	31.5	4.5	0.0	53.4	51.2	73.9	20.5	22.7
5	5850*	104.8	101.9	32.2	31.4	4.5	0.0	110.1	107.2	73.9	-	-
6	6264.4	44.1	43.5	33.2	31.4	4.6	0.0	50.5	49.9	73.9	23.4	24.0
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
6	11697.6	56.8	52.6	39.8	31.1	6.5	0.7	63.2	59.0	73.9	10.7	14.9
7	17547.2*	58.6	56.9	45.4	30.1	8.4	0.9	73.7	72.0	73.9	0.2	1.9
8	23395.6	52.7	52.3	40.9	30.7	9.7	0.0	63.1	62.7	73.9	10.8	11.2
Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
9	29244.5	49.1	55.7	43.2	29.5	7.1	0.0	54.3	60.9	73.9	19.6	13.0
10	35093.3	47.8	46.6	43.3	28.0	7.7	0.0	55.2	54.0	73.9	18.7	19.9

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	
			[dBuV]						[dBuV]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss													
1	2489.1	32.8	31.8	27.2	32.3	2.8	0.0	30.5	29.5	53.9	23.4	24.4	
2	4978.3	32.7	32.0	31.6	31.6	4.3	0.0	37.0	36.3	53.9	16.9	17.6	
3	5101.0	30.1	31.2	31.7	31.5	4.3	0.0	34.6	35.7	53.9	19.3	18.2	
4	5433.2	30.9	30.9	31.8	31.5	4.5	0.0	35.7	35.7	53.9	18.2	18.2	
5	5850*	44.1	44.1	32.2	31.4	4.5	0.0	49.4	49.4	53.9	4.5	4.5	
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac													
6	11697.6	33.6	33.2	39.8	31.1	6.5	0.7	40.0	39.6	53.9	13.9	14.3	
7	17547.2*	35.0	34.8	45.4	30.1	8.4	0.9	50.1	49.9	53.9	3.8	4.0	
8	23395.6	33.0	33.2	40.9	30.7	9.7	0.0	43.4	43.6	53.9	10.5	10.3	
Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac													
9	29244.5	24.8	25.9	43.2	29.5	7.1	0.0	30.0	31.1	53.9	23.9	22.8	
10	35093.3	29.3	29.1	43.3	28.0	7.7	0.0	36.7	36.5	53.9	17.2	17.4	

* Reference data

20dBc(Fundamental 5848.889420M)(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
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
0	5848.9	113.9	112.4	32.2	31.4	4.5	0.0	119.2	117.7	-	-	-
5	5850.0	59.1	57.1	32.2	31.4	4.5	0.0	64.4	62.4	Funda-20dB	34.8	35.3
7	17547.2	57.0	55.0	45.4	30.1	8.4	0.9	72.1	70.1	Funda-20dB	27.1	27.6

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

Test Distance 0.5m : Distance Factor(Dfac) = 20log(3/0.5) = 15.6dB

*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 test 0.0dB of the above table.

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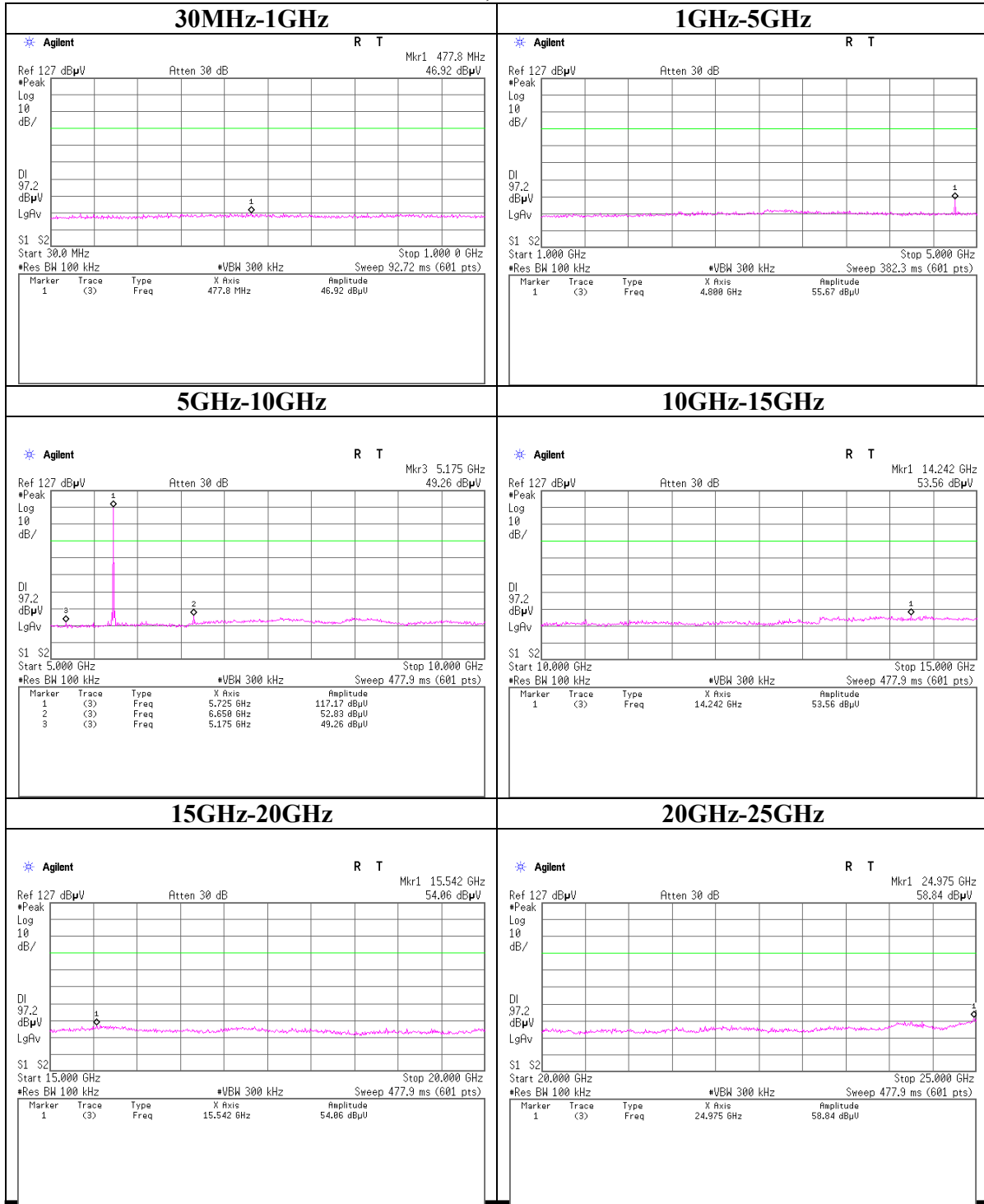
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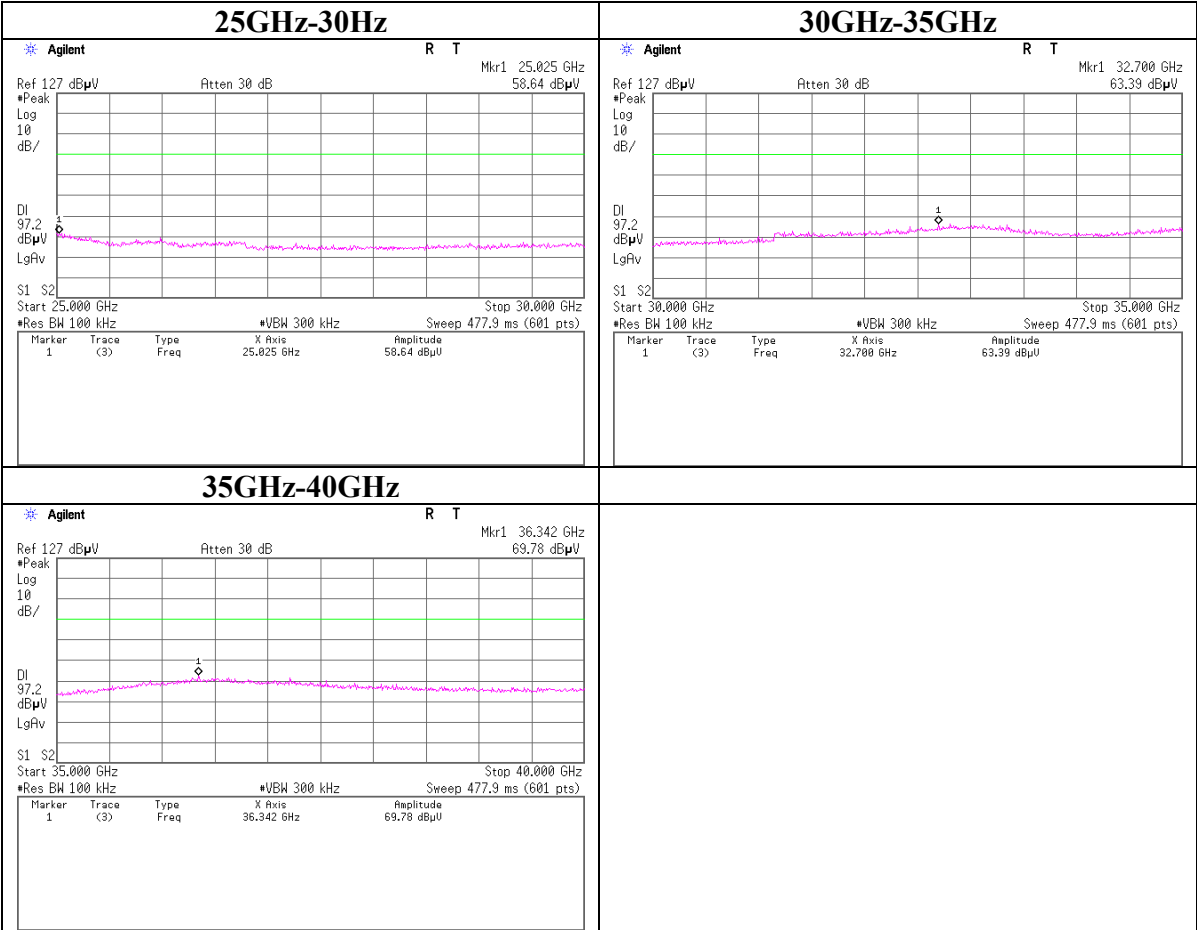
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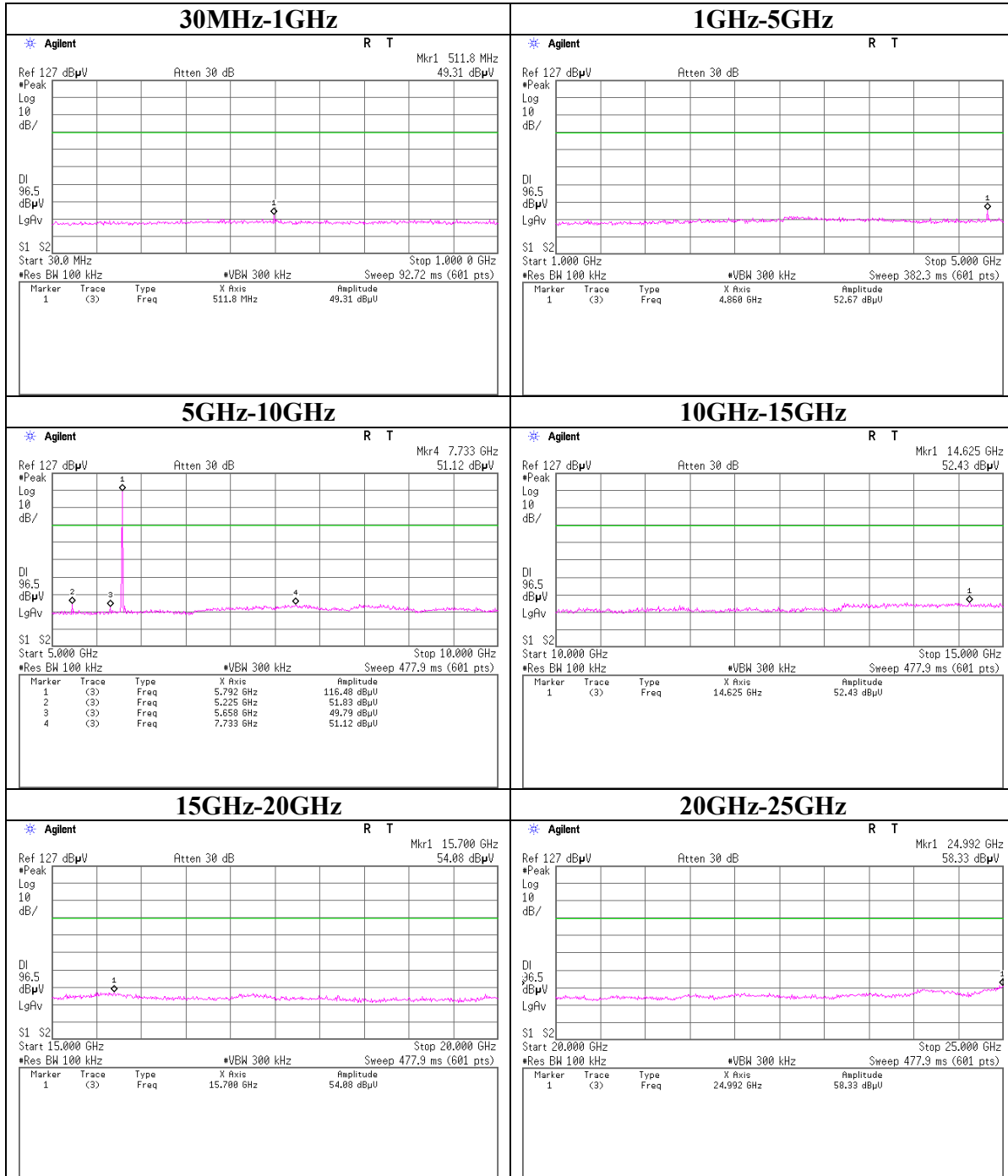
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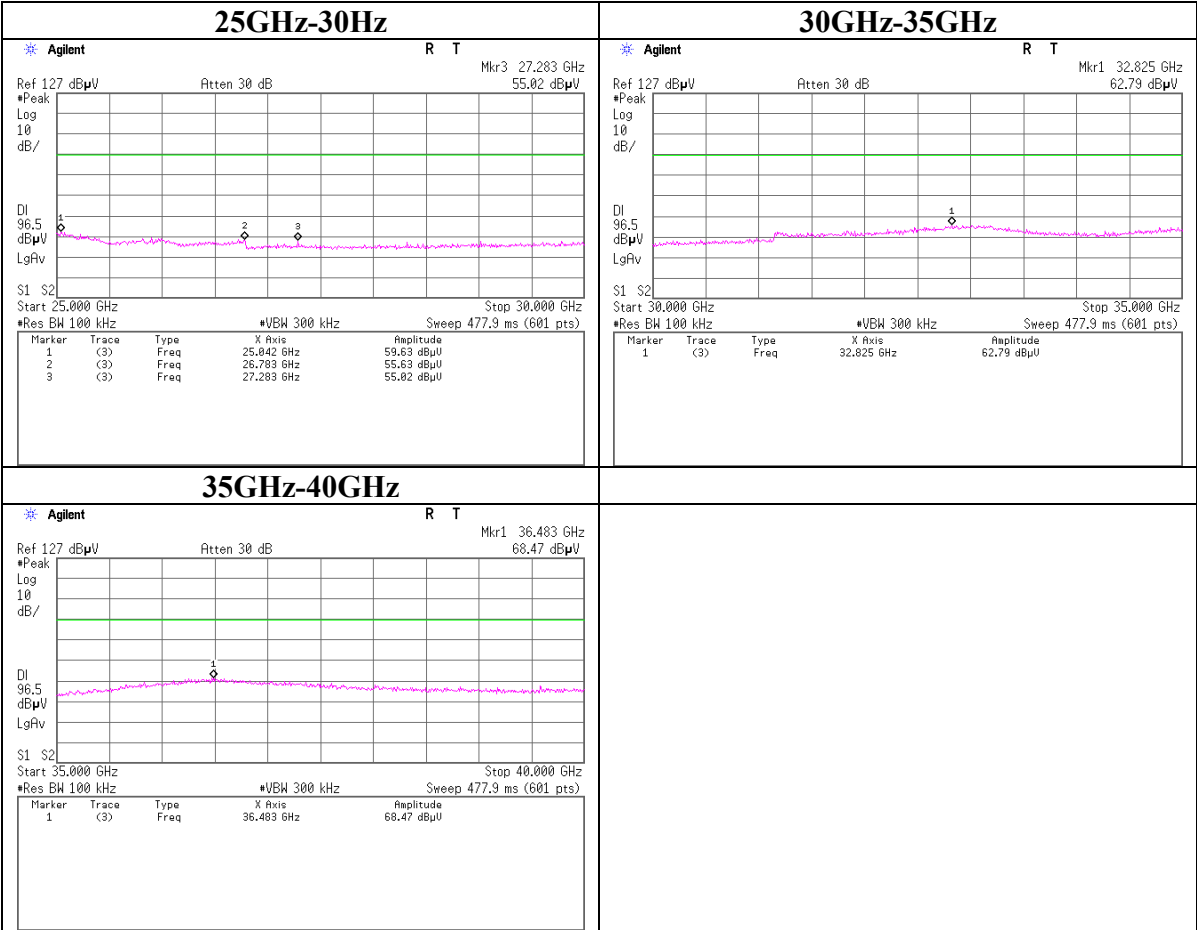
Conducted Spurious Emission
Tx, Ch:Low



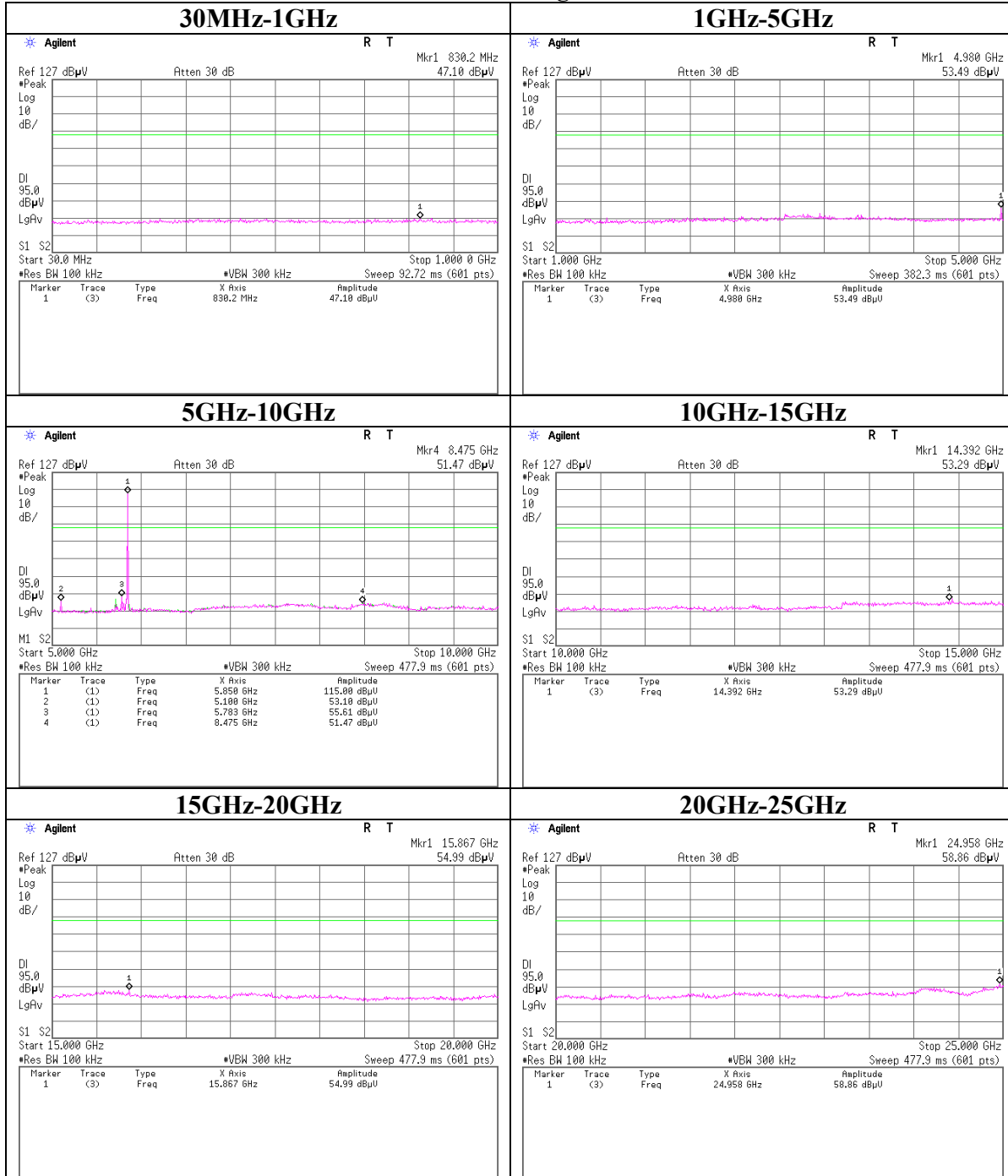


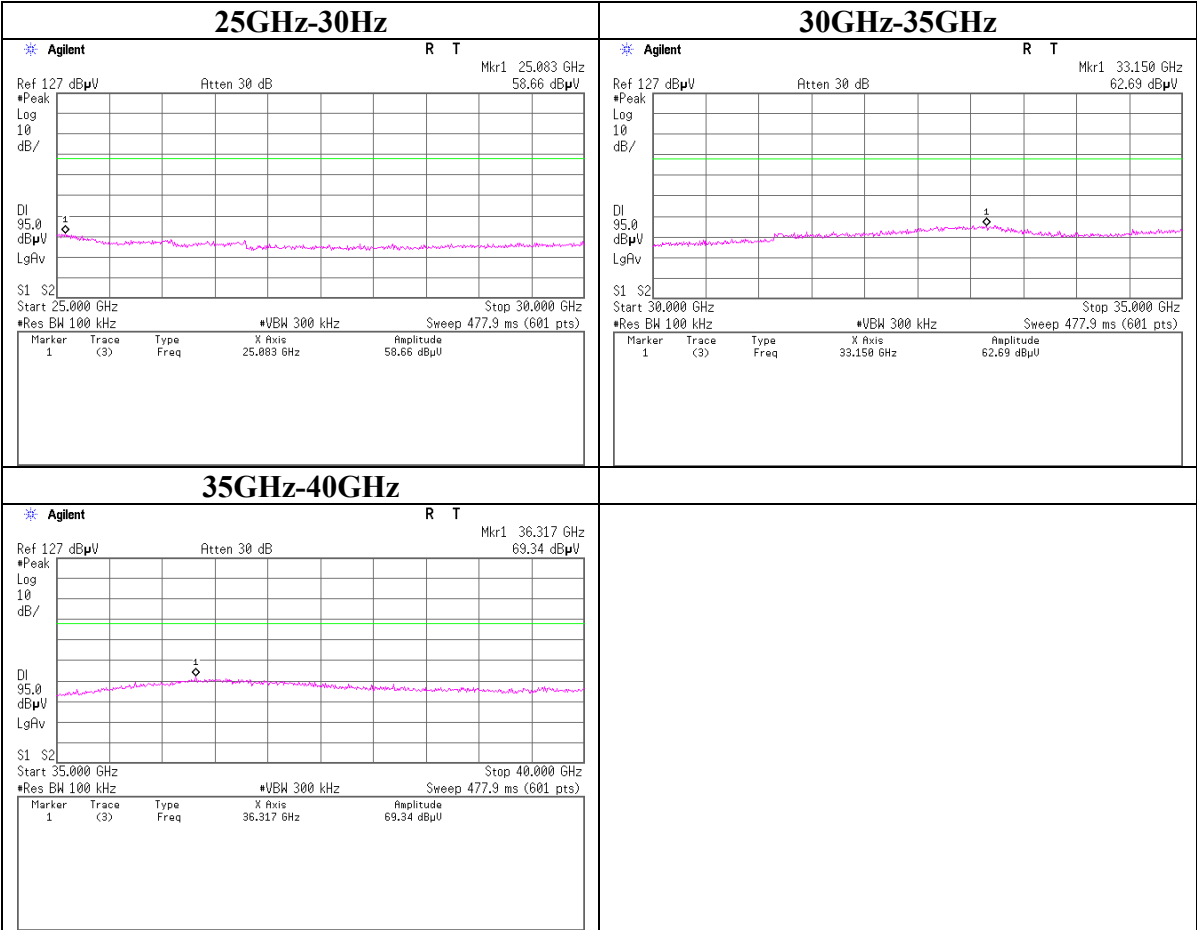
Conducted Spurious Emission
Ch:Mid



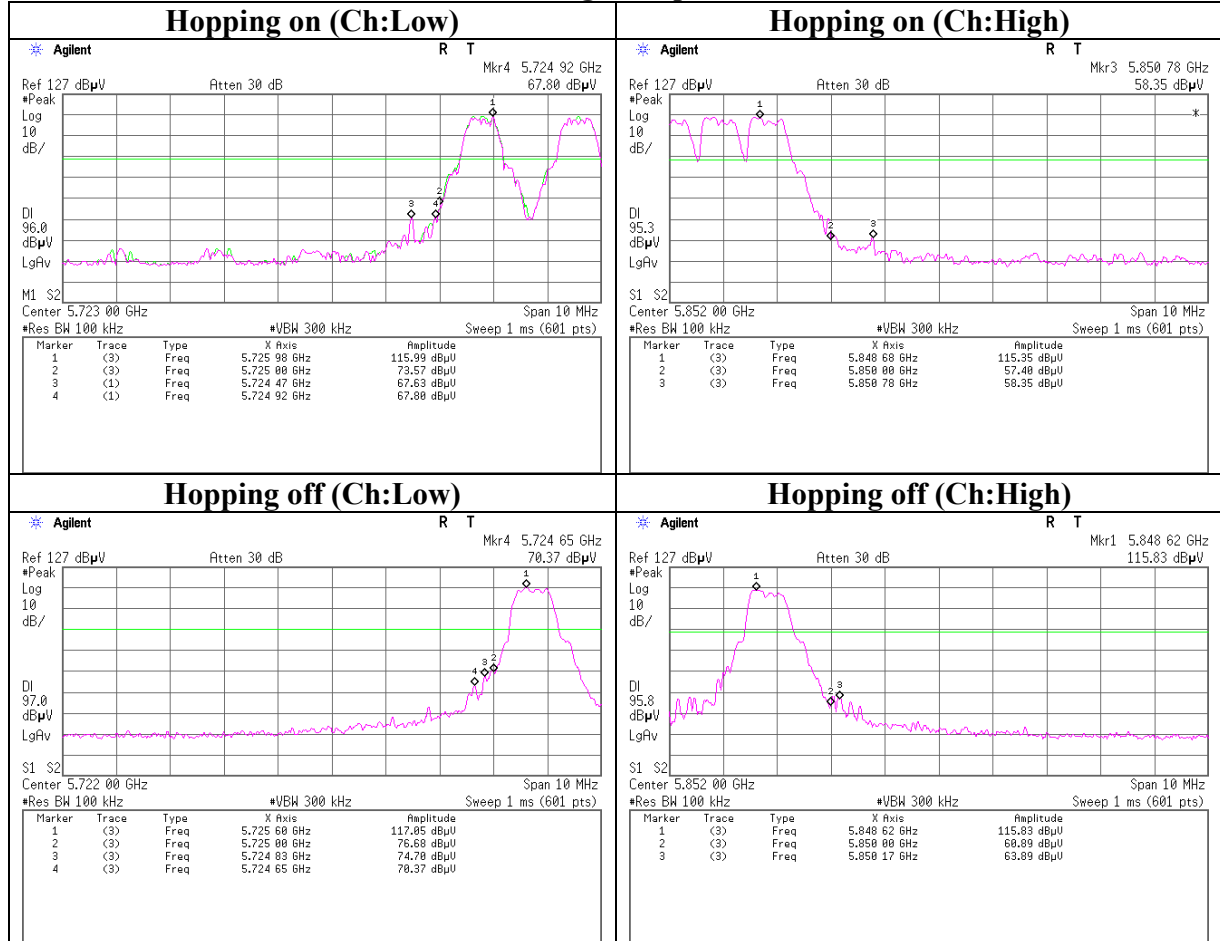


Conducted Spurious Emission
Ch:High





Conducted Spurious Emission
Band Edge compliance



APPENDIX 3: Test instruments

EMI test equipment

Control No.	Instrument	Manufacturer	Model No	Test Item	Calibration Date * Interval(month)
MOS-04	Digital Humidity Indicator	N.T	NT-1800	AT	2006/11/27 * 12
MPSE-11	Power sensor	Anritsu	MA2411B	AT	2006/09/20 * 12
MPM-08	Power Meter	Anritsu	ML2495A	AT	2006/09/20 * 12
MAT-23	Attenuator(10dB) DC-18GHz	Orient Microwave	BX10-0476-00	AT	2006/03/18 * 12
MSA-04	Spectrum Analyzer	Agilent	E4448A	AT, RE, CE	2006/06/02 * 12
MAT-19	Attenuator(6dB) (above1GHz)	HIROSE ELECTRIC CO.,LTD.	AT-106	AT	2007/01/11 * 12
MCC-26	Microwave Cable 1G- 26.5GHz	Suhner	SUCOFLEX104	AT	2006/08/29 * 12
MHA-06	Horn Antenna	Schwarzbeck	BBHA9120D	RE	2007/01/30 * 12
MHA-02	Horn Antenna	EMCO	3160-09	RE	2007/01/30 * 12
MCC-25	Microwave Cable 1G- 26.5GHz	Suhner	SUCOFLEX104	RE	2006/08/29 * 12
MCC-47	Microwave Cable 1G- 26.5GHz	Suhner	SUCOFLEX104	RE	2006/08/29 * 12
MPA-10	Pre Amplifier	Agilent	8449B	RE	2006/09/11 * 12
MAEC-02	Anechoic Chamber	TDK	Semi Anechoic Chamber 3m	RE, CE	2006/04/10 * 12
MHA-04	Horn Antenna	EMCO	3160-10	RE	2007/01/30 * 12
MCC-27	Microwave Cable 1G- 40GHz	Suhner	SUCOFLEX101	RE	2006/08/30 * 12
MCC-28	Microwave Cable 1G- 40GHz	Suhner	SUCOFLEX101	RE	2006/08/30 * 12
MPA-17	Pre Amplifier	UNITEK ELECTROBICS INC.	40GHzAMP	RE	2006/12/15 * 12
MBA-02	Biconical Antenna	Schwarzbeck	BBA9106	RE	2006/10/07 * 12
MLA-02	Logperiodic Antenna	Schwarzbeck	USLP9143	RE	2006/10/07 * 12
MAT-07	Attenuator(6dB)	Weinschel Corp	2	RE	2006/12/27 * 12
MCC-12	Coaxial Cable	Fujikura/Agilent	-	RE	2006/02/23 * 12
MPA-19	Pre Amplifier	MITEQ	MLA-10K01-B01-35	RE	2007/02/08 * 12
MTR-03	Test Receiver	Rohde & Schwarz	ESCI	RE, CE	2006/03/04 * 12
MSTW-14	EMI measurement program	TSJ	TEPTO-DV	RE, CE	-
MOS-02	Digital Humidity Indicator	N.T	NT-1800	RE, CE	2006/11/27 * 12
MJM-05	Measure	PROMART	SEN1955	RE, CE	-
MLS-06	LISN(AMN)	Schwarzbeck	NSLK8127	CE(EUT)	2006/02/06 * 12
MCC-13	Coaxial Cable	Fujikura/Agilent	-	CE	2006/02/23 * 12

The expiration date of the calibration is the end of the expired month.

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 Conducted test

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