

**APPENDIX 2: Data of EMI test**

**Conducted Emission**

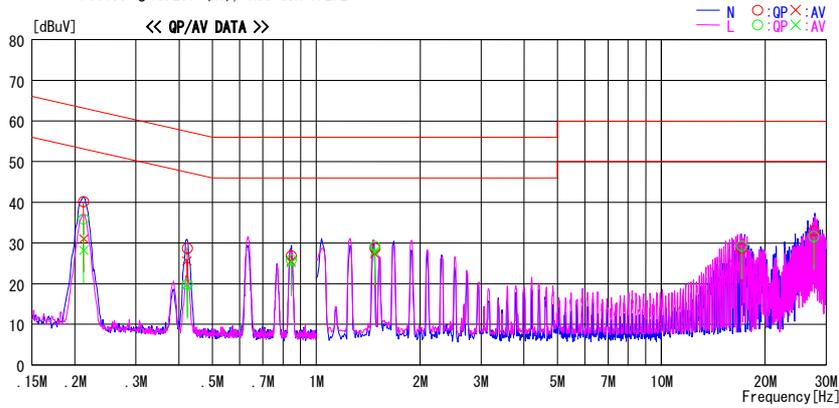
**DATA OF CONDUCTED EMISSION TEST**

UL Apex Co., Ltd. Head Office EMC Lab. No.3 Semi Anechoic Chamber  
 Date : 2006/11/09 01:07:30

Company : Sony EMCS Corporation Kisarazu TEC  
 Kind of EUT : BLUETOOTH WIRELESS AUDIO ADAPTER  
 Model No. : TDM-BT1  
 Serial No. : 2  
 Report No. : 27DE0029-HO  
 Power : AC120V/60Hz (EUT:DC 5V)  
 Temp./Humi. : 24deg. C. / 33%  
 Operator : Makoto Kosaka

Mode / Remarks : Tx Hopping on

LIMIT : FCC15C §15.207 (QP) / RSS-Gen 7.2.2  
 FCC15C §15.207 (AV) / RSS-Gen 7.2.2



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]	
0.21160	35.8	28.1	0.1	35.9	28.2	63.1	53.1	27.2	24.9	L
0.21160	40.1	30.9	0.1	40.2	31.0	63.1	53.1	22.9	22.1	N
0.42300	19.7	19.4	0.2	19.9	19.6	57.4	47.4	37.5	27.8	L
0.42300	28.5	25.4	0.2	28.7	25.6	57.4	47.4	28.7	21.8	N
0.84550	25.6	24.8	0.3	25.9	25.1	56.0	46.0	30.1	20.9	L
0.84550	26.5	25.2	0.3	26.8	25.5	56.0	46.0	29.2	20.5	N
1.47700	29.0	27.7	0.2	29.2	27.9	56.0	46.0	26.8	18.1	L
1.47700	28.5	27.2	0.2	28.7	27.4	56.0	46.0	27.3	18.6	N
17.06650	27.4	---	1.3	28.7	---	60.0	---	31.3	---	N
17.06650	28.0	---	1.3	29.3	---	60.0	---	30.7	---	L
27.63300	31.4	---	1.6	33.0	---	60.0	---	27.0	---	N
27.63300	30.0	---	1.6	31.6	---	60.0	---	28.4	---	L

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.

**Conducted Emission**

**DATA OF CONDUCTED EMISSION TEST**

UL Apex Co., Ltd. Head Office EMC Lab. No.3 Semi Anechoic Chamber  
 Date : 2006/11/09 01:45:33

Company	: Sony EMCS Corporation Kisarazu TEC	Report No.	: 27DE0029-HO
Kind of EUT	: BLUETOOTH WIRELESS AUDIO ADAPTER	Power	: AC120V/60Hz (EUT:DC 5V)
Model No.	: TDM-BT1	Temp./Humi.	: 24deg. C. / 33%
Serial No.	: 2	Operator	: Makoto Kosaka

Mode / Remarks : Rx 2441MHz

LIMIT : FCC15C § 15.207 (QP) / RSS-Gen 7.2.2  
 FCC15C § 15.207 (AV) / RSS-Gen 7.2.2

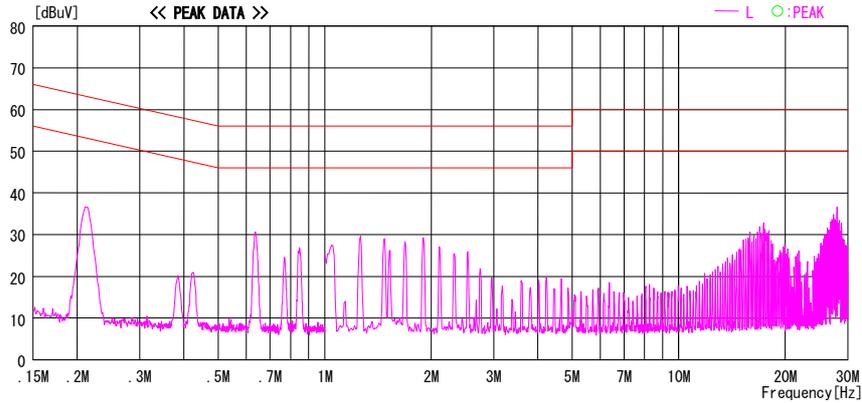
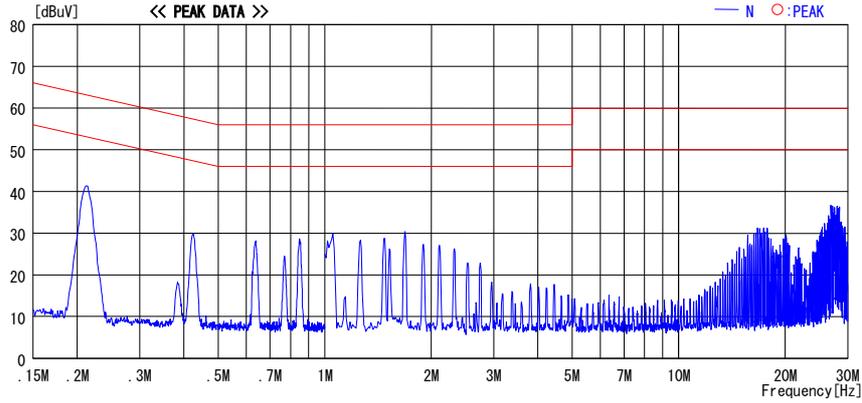


CHART: WITH FACTOR, Peak hold data. Data is uncorrected. CALCURATION: RESULT=READING+C.F (LISN LOSS+CABLE LOSS)  
 Except for the above table : adequate margin data below the limits.

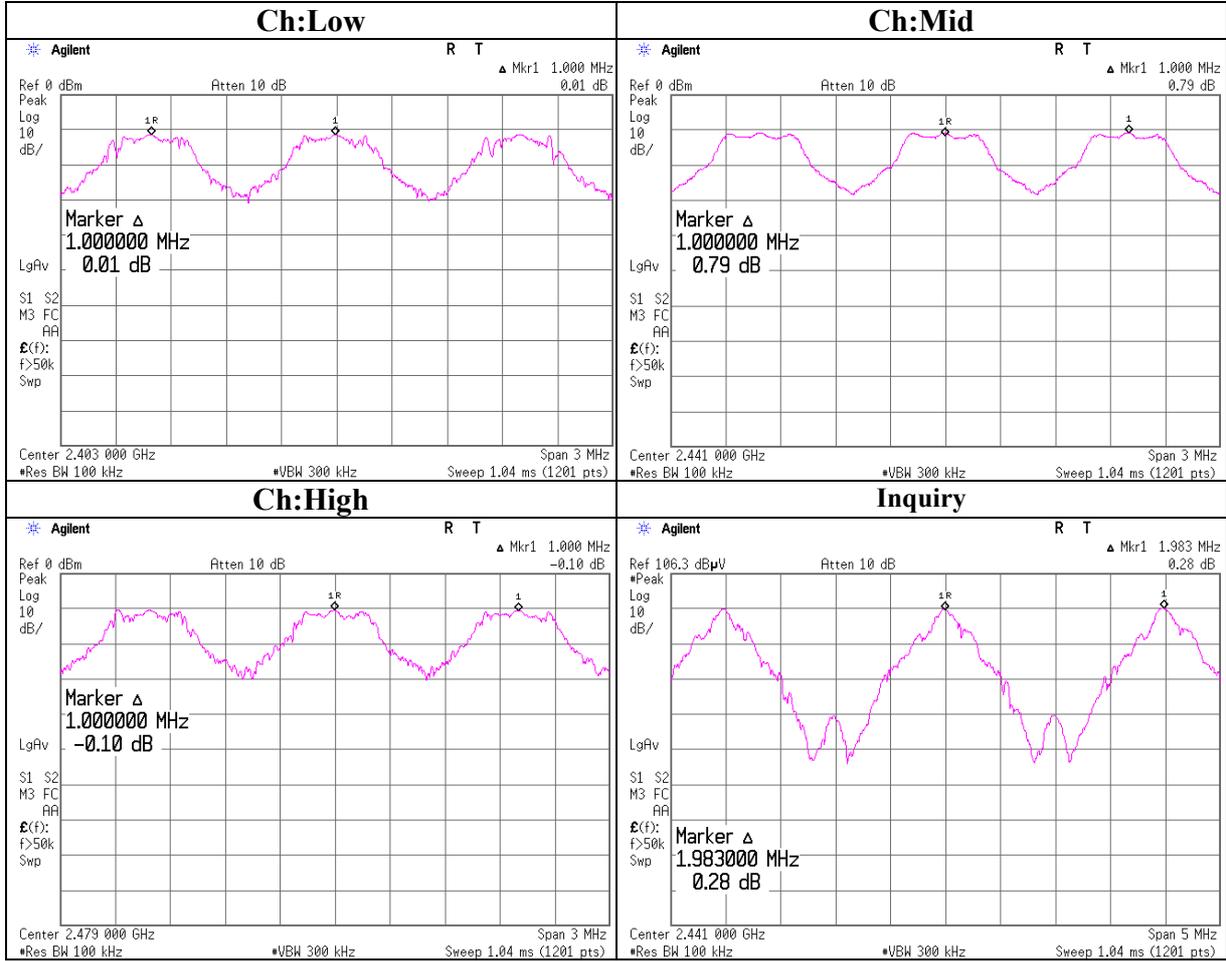
## Carrier Frequency Separation

UL Apex Co., Ltd.  
Head Office EMC Lab. No.6 shielded room

COMPANY : Sony EMCS Corporation Kisarazu TEC REGULATION : FCC15.247(a)(1)/RSS-210A8.1(2)  
EQUIPMENT : BLUETOOTH WIRELESS AUDIO ADAPTER TEST DISTANCE : -  
MODEL : TDM-BT1 DATE : 11/09/2006  
S/N : 1 TEMPERATURE : 23deg.C  
POWER : AC120V / 60Hz (EUT:DC5V) HUMIDITY : 42%  
MODE : Tx (Hopping on) /Inquiry ENGINEER : Shinya Watanabe

Ch	Freq. [MHz]	Channel separation [MHz]	Limit
Low	2402.0	1.000	>two-thirds of 938.00kHz (20dB Bandwidth) or 25[kHz](whichever is greater)
Mid	2441.0	1.000	>two-thirds of 928.00kHz (20dB Bandwidth) or 25[kHz](whichever is greater)
High	2480.0	1.000	>two-thirds of 930.00kHz (20dB Bandwidth) or 25[kHz](whichever is greater)
Inquiry	2441.0	1.983	>two-thirds of 772.00kHz (20dB Bandwidth) or 25[kHz](whichever is greater)

**Carrier Frequency Separation**



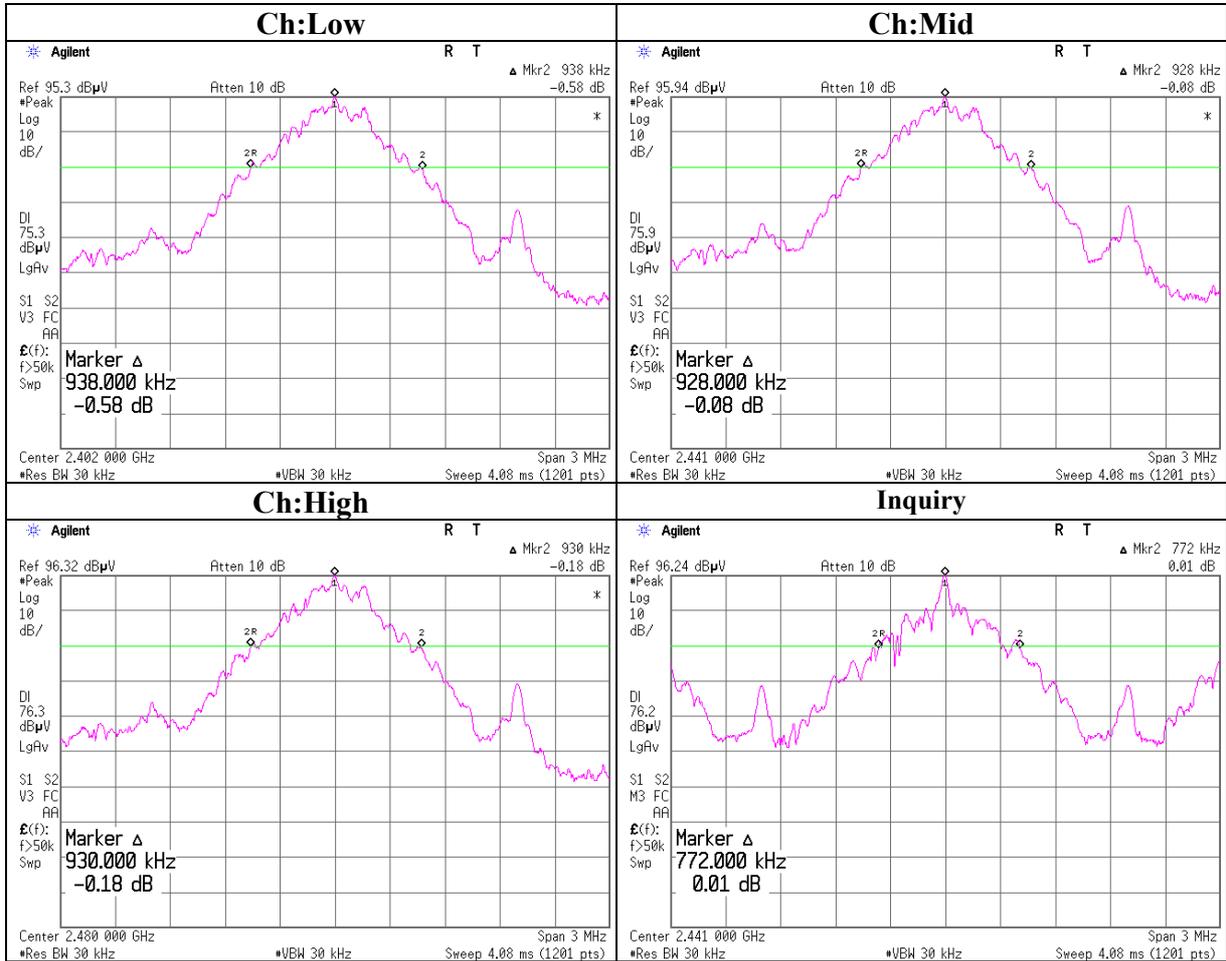
## 20dB Bandwidth

UL Apex Co., Ltd.  
Head Office EMC Lab. No.6 shielded room

COMPANY	: Sony EMCS Corporation Kisarazu TEC	REGULATION	: FCC15.247(a)(1)/RSS-210A8.1(1)
EQUIPMENT	: BLUETOOTH WIRELESS AUDIO ADAPTER	TEST DISTANCE	: -
MODEL	: TDM-BT1	DATE	: 11/09/2006
S/N	: 1	TEMPERATURE	: 23deg.C
POWER	: AC120V / 60Hz (EUT: DC5V)	HUMIDITY	: 42%
MODE	: Tx (Hopping off) /Inquiry	ENGINEER	: Shinya Watanabe

Ch	Freq. [MHz]	20dB Bandwidth [MHz]	Limit [MHz]
Low	2402.0	0.938	-
Mid	2441.0	0.928	-
High	2480.0	0.930	-
Inquiry	2441.0	0.772	-

**20dB Bandwidth**



### Number of Hopping Frequency

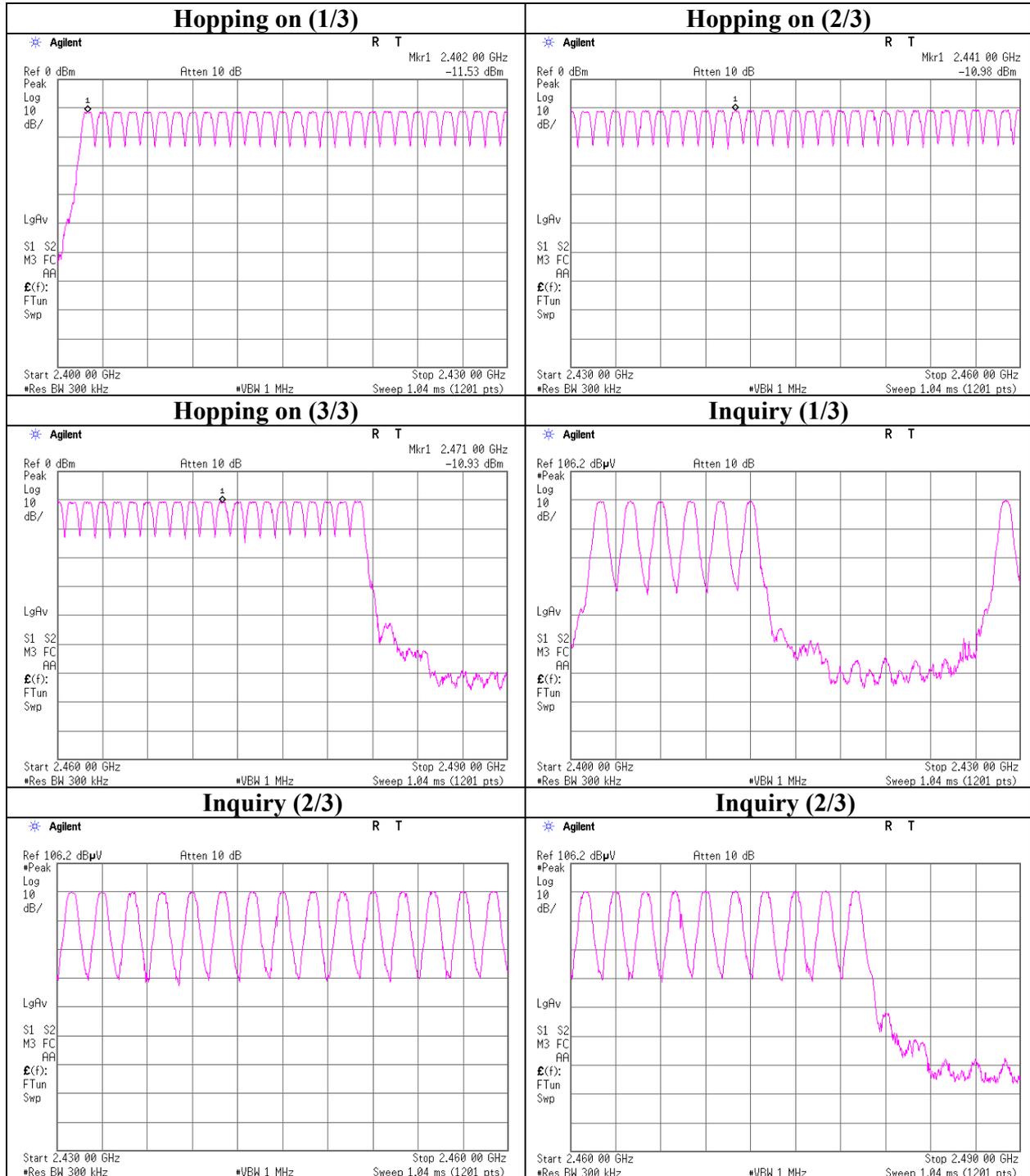
UL Apex Co., Ltd.  
Head Office EMC Lab. No.6 shielded room

COMPANY : Sony EMCS Corporation Kisarazu TEC      REGULATION : FCC15.247(a)(1)(iii)/RSS-210A8.1(4)  
EQUIPMENT : BLUETOOTH WIRELESS AUDIO ADAPTER      TEST DISTANCE : -  
MODEL : TDM-BT1      DATE : 11/09/2006  
S/ N : 1      TEMPERATURE : 23deg.C  
POWER : AC120V / 60Hz (EUT:DC5V)      HUMIDITY : 42%  
MODE : Tx (Hopping on) /Inquiry      ENGINEER : Shinya Watanabe

Mode	Number of channel [time]	Limit [time]
Tx(Hoppng on)	79	$\geq 15$

Mode	Number of channel [time]	Limit [time]
Inquiry	32	$\geq 15$

**Number of Hopping Frequency**



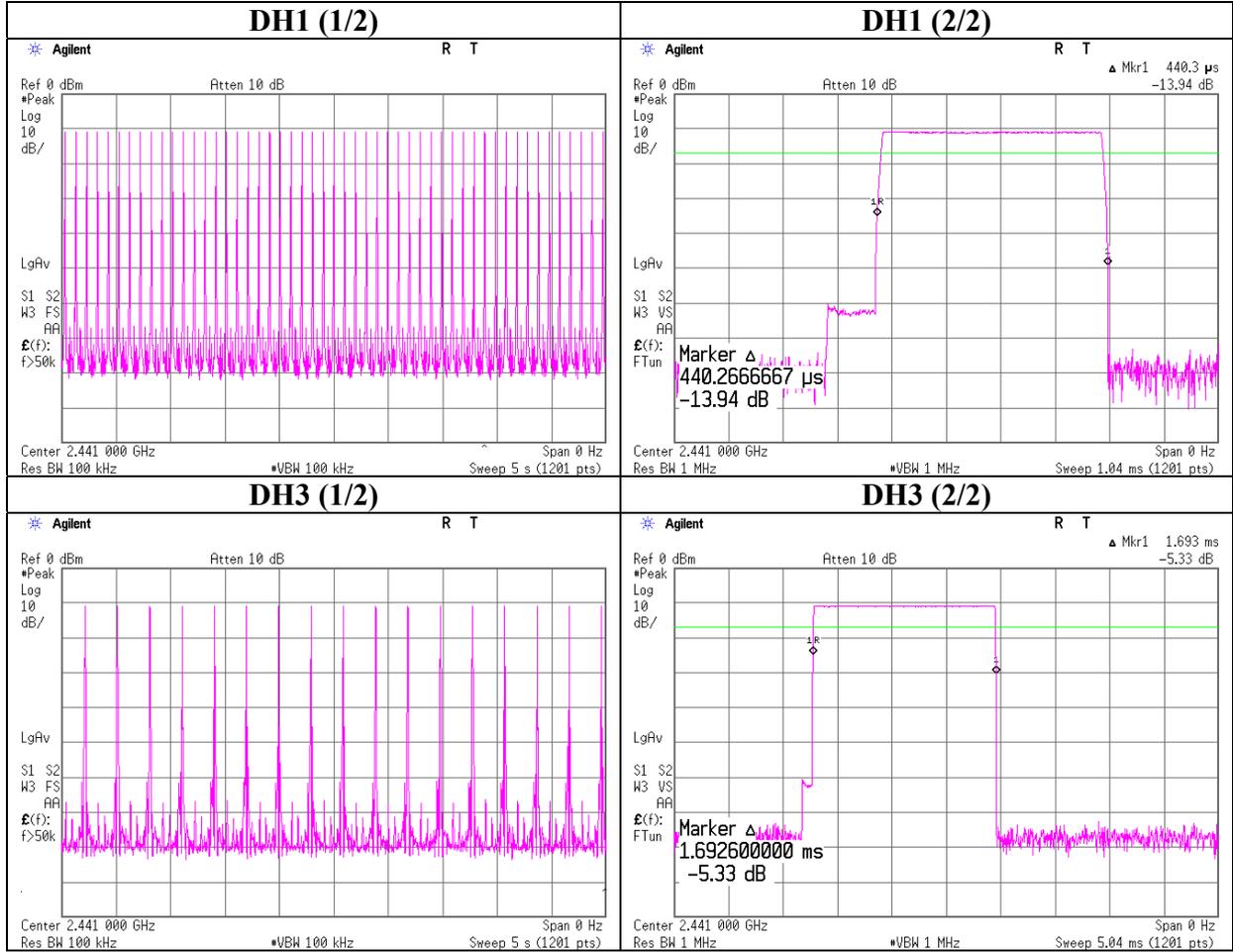
## Dwell time

UL Apex Co., Ltd.  
Head Office EMC Lab. No.6 shielded room

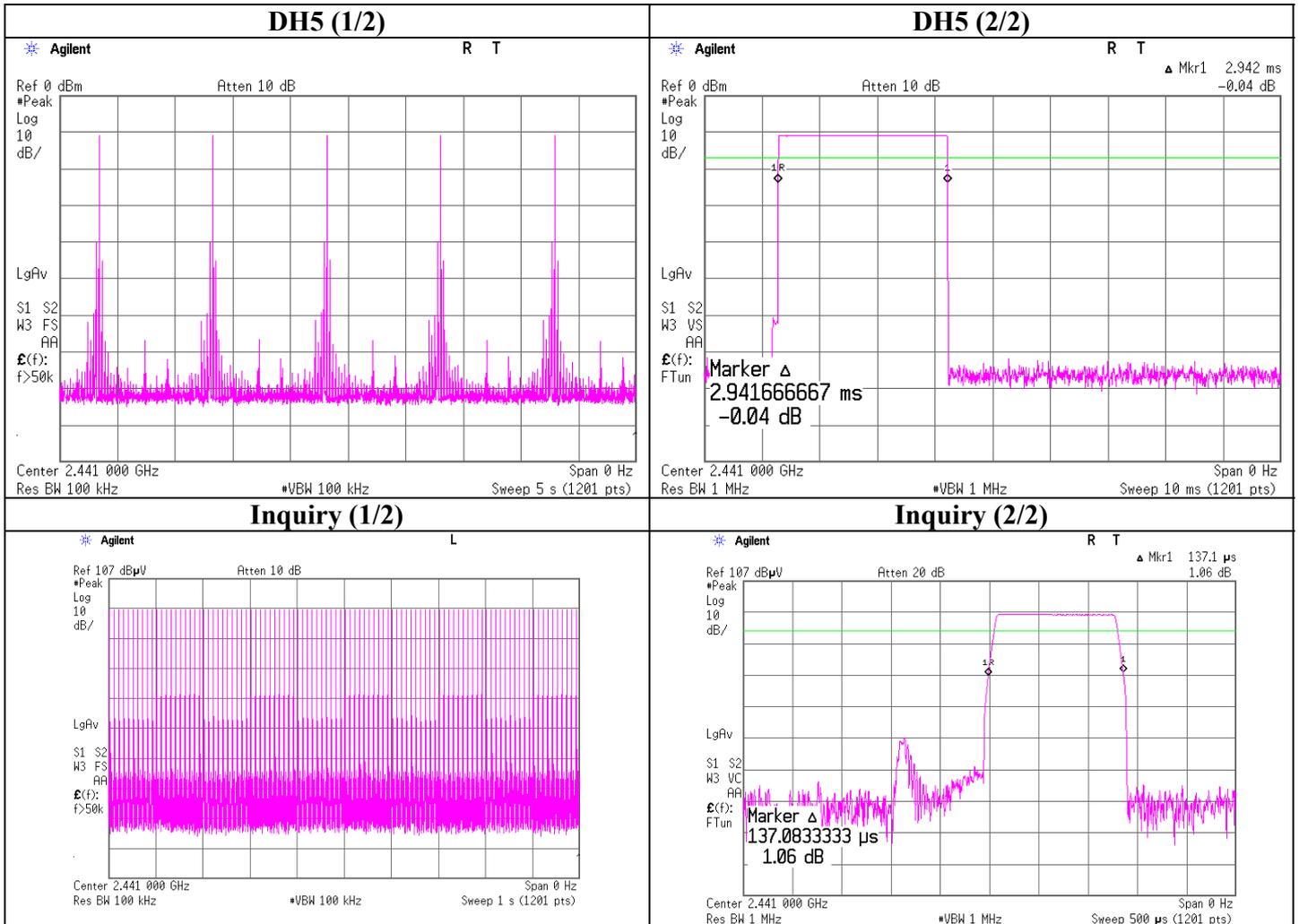
COMPANY : Sony EMCS Corporation Kisarazu TEC      REGULATION : FCC15.247(a)(1)(iii)/RSS-210A8.1(4)  
EQUIPMENT : BLUETOOTH WIRELESS AUDIO ADAPTER      TEST DISTANCE : -  
MODEL : TDM-BT1      DATE : 11/09/2006  
S/N : 1      TEMPERATURE : 23deg.C  
POWER : AC120V / 60Hz (EUT:DC5V)      HUMIDITY : 42%  
MODE : Tx (Hopping on) /Inquiry      ENGINEER : Shinya Watanabe

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	51 times / 5 sec. x 31.6 sec. = 322 times	0.440	142	400
DH3	17 times / 5 sec. x 31.6 sec. = 107 times	1.693	182	400
DH5	5 times / 5 sec. x 31.6 sec. = 32 times	2.942	93	400
Inquiry	100 times / 1 sec. x 12.8 sec. = 1280 times	0.137	175	400

**Dwell time**



**Dwell time**



**Maximum Peak Output Power**

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

COMPANY : Sony EMCS Corporation Kisarazu TEC      REGULATION : FCC15.247(b)(1)/RSS-210A8.4(2)  
EQUIPMENT : BLUETOOTH WIRELESS AUDIO ADAPTER      TEST DISTANCE : -  
MODEL : TDM-BT1      DATE : 11/11/2006  
S/N : 1      TEMPERATURE : 25deg.C  
POWER : AC120V /60Hz (EUT input DC 5V)      HUMIDITY : 51%  
MODE : Tx(Hopping Off)/Inquiry      ENGINEER : Shinya Watanabe

Ch	Freq. [MHz]	P/M PK Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result		Limit		Margin [dB]
					[dBm]	[mW]	[dBm]	[mW]	
Low	2402.0	-11.38	1.17	10.14	-0.07	0.98	20.97	125	21.04
Mid	2441.0	-10.86	1.17	10.14	0.45	1.11	20.97	125	20.52
High	2480.0	-10.48	1.29	10.14	0.95	1.24	20.97	125	20.02
Inquiry	2441.0	-10.65	1.17	10.14	0.66	1.16	20.97	125	20.31

Sample Calculation:

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

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

**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.

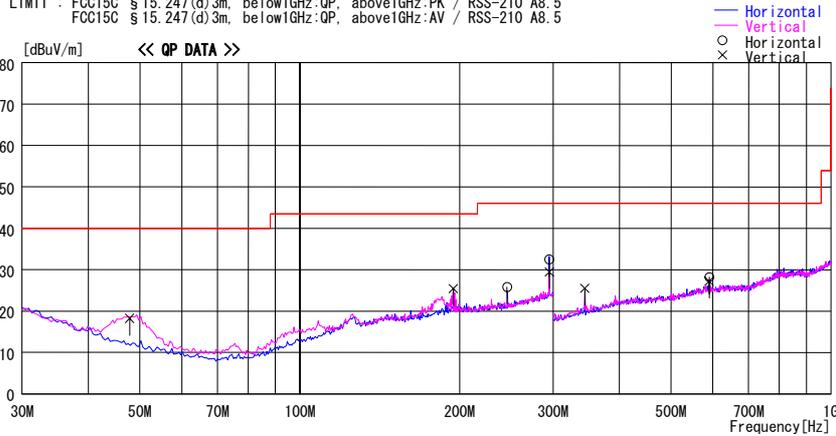
**DATA OF RADIATED EMISSION TEST**

UL Apex Co., Ltd. Head Office EMC Lab. No.3 Semi Anechoic Chamber  
Date : 2006/11/08 21:21:22

Company : Sony EMCS Corporation Kisarazu TEC Report No. : 27DE0029-HO  
Kind of EUT : BLUETOOTH WIRELESS AUDIO ADAPTER Power : AC120V/60Hz (EUT:DC 5V)  
Model No. : TDM-BT1 Temp./Humi. : 24deg. C. / 33%  
Serial No. : 2 Operator : Makoto Kosaka

Mode / Remarks : BT DH5 Tx 2402MHz H/V Y-axis (worst)

LIMIT : FCC15C § 15.247(d)3m, below1GHz:QP, above1GHz:PK / RSS-210 A8.5  
FCC15C § 15.247(d)3m, below1GHz:QP, above1GHz:AV / RSS-210 A8.5



Frequency [MHz]	Reading [dBuV]	DET	Antenna	Loss&	Level	Angle	Height	Polar.	Limit	Margin	Comment
			Factor	Gain							
			[dB/m]	[dB]	[dBuV/m]	[Deg]	[cm]		[dBuV/m]	[dB]	
47.848	31.9	QP	11.2	-24.9	18.2	143	100	Vert.	40.0	21.8	
194.691	31.4	QP	17.0	-23.0	25.4	188	100	Vert.	43.5	18.1	
245.764	30.5	QP	17.9	-22.6	25.8	267	269	Hori.	46.0	20.2	
294.917	34.5	QP	20.3	-22.3	32.5	102	310	Hori.	46.0	13.5	
294.917	31.5	QP	20.3	-22.3	29.5	276	100	Vert.	46.0	16.5	
344.069	31.4	QP	16.1	-22.0	25.5	69	100	Vert.	46.0	20.5	
589.831	29.3	QP	19.7	-20.8	28.2	173	100	Hori.	46.0	17.8	
589.831	28.3	QP	19.7	-20.8	27.2	162	100	Vert.	46.0	18.8	

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)

**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.3 Semi Anechoic Chamber  
 Date : 2006/11/08 22:17:16

Company	: Sony EMCS Corporation Kisarazu TEC	Report No.	: 27DE0029-HO
Kind of EUT	: BLUETOOTH WIRELESS AUDIO ADAPTER	Power	: AC120V/60Hz (EUT:DC 5V)
Model No.	: TDM-BT1	Temp./Humi.	: 24deg. C. / 33%
Serial No.	: 2	Operator	: Makoto Kosaka

Mode / Remarks : BT DH5 Tx 2441MHz H/V Y-axis (worst)

LIMIT : FCC15C § 15.247(d)3m, below1GHz:QP, above1GHz:PK / RSS-210 A8.5  
 FCC15C § 15.247(d)3m, below1GHz:QP, above1GHz:AV / RSS-210 A8.5

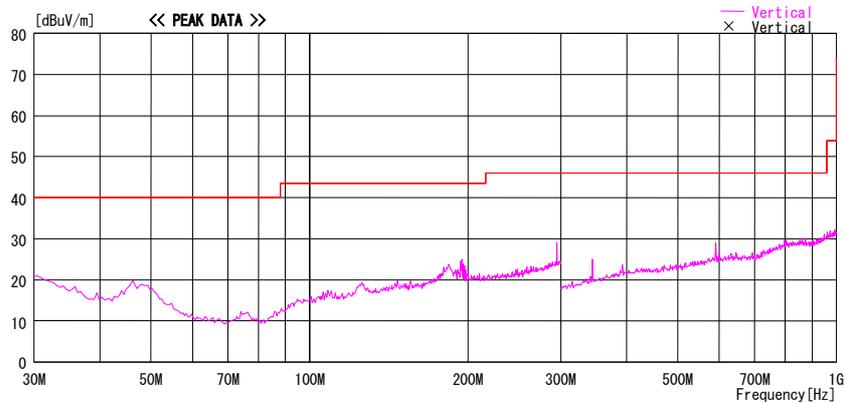
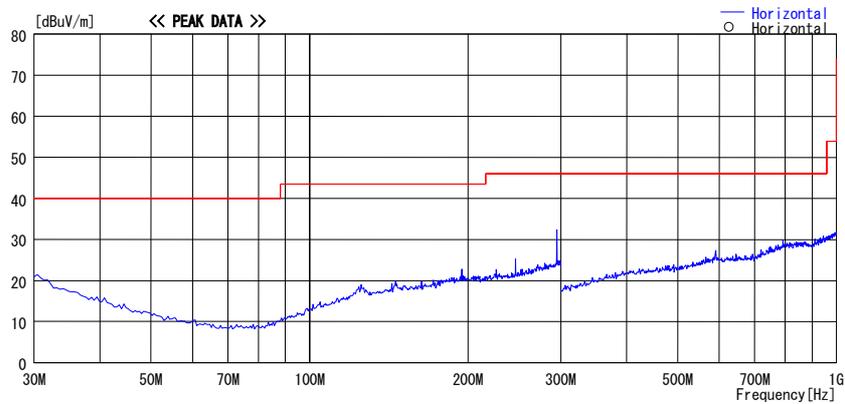


CHART: WITH FACTOR ANT TYPE: -30MHz: LOOP, 30-300MHz: BICONICAL, 300MHz-1000MHz: LOGPERIODIC, 1000MHz-: HORN  
 CALCULATION: RESULT = READING + ANT FACTOR + LOSS (CABLE+ATTEN.) - GAIN (AMP)

**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. 3 Semi Anechoic Chamber  
 Date : 2006/11/08 22:41:31

Company	: Sony EMCS Corporation Kisarazu TEC	Report No.	: 27DE0029-HO
Kind of EUT	: BLUETOOTH WIRELESS AUDIO ADAPTER	Power	: AC120V/60Hz (EUT: DC 5V)
Model No.	: TDM-BT1	Temp./Humi.	: 24deg. C. / 33%
Serial No.	: 2	Operator	: Makoto Kosaka

Mode / Remarks : BT DH5 Tx 2480MHz H/V Y-axis (worst)

LIMIT : FCC15C § 15.247(d)3m, below1GHz:QP, above1GHz:PK / RSS-210 A8.5  
 FCC15C § 15.247(d)3m, below1GHz:QP, above1GHz:AV / RSS-210 A8.5

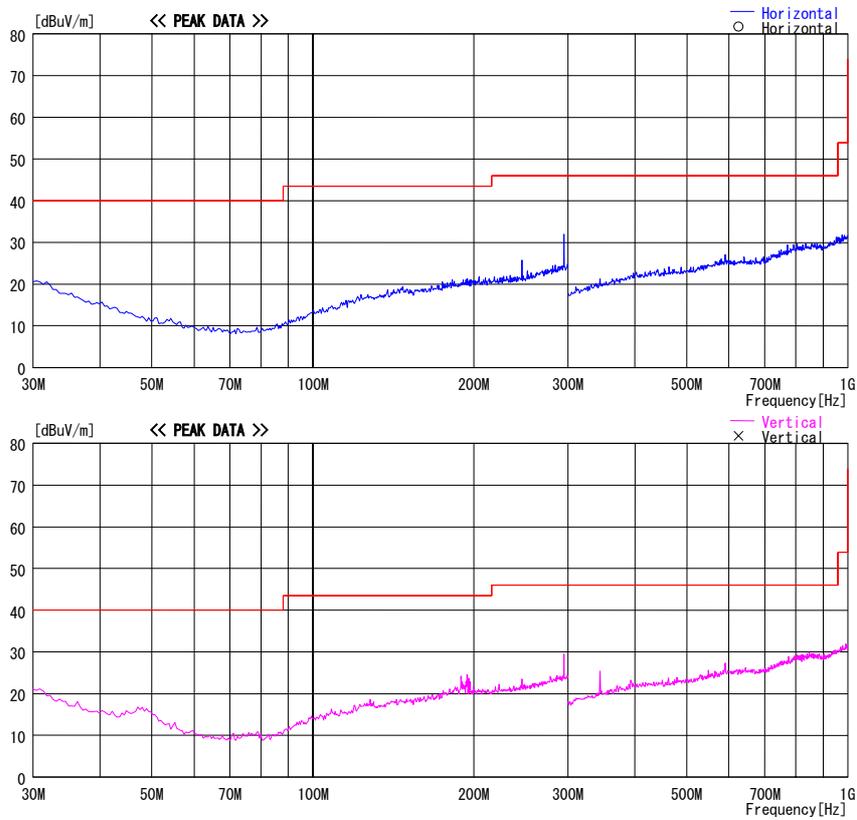


CHART: WITH FACTOR ANT TYPE: -30MHz: LOOP, 30-300MHz: BICONICAL, 300MHz-1000MHz: LOGPERIODIC, 1000MHz-: HORN  
 CALCULATION: RESULT = READING + ANT FACTOR + LOSS (CABLE+ATTEN.) - GAIN (AMP)

**Radiated Spurious Emission (below 1GHz)**  
**(Rx, 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.3 Semi Anechoic Chamber  
 Date : 2006/11/08 23:19:30

Company	: Sony EMCS Corporation Kisarazu TEC	Report No.	: 27DE0029-HO
Kind of EUT	: BLUETOOTH WIRELESS AUDIO ADAPTER	Power	: AC120V/60Hz (EUT:DC 5V)
Model No.	: TDM-BT1	Temp./Humi.	: 24deg. C. / 33%
Serial No.	: 2	Operator	: Makoto Kosaka

Mode / Remarks : Rx 2441MHz H/V Y-axis (worst)

LIMIT : FCC15C § 15.247(d)3m, below1GHz:QP / RSS-Gen 7.2.3  
 Except for the data below : adequate margin data below the limits. The limit values at frequencies exceptir

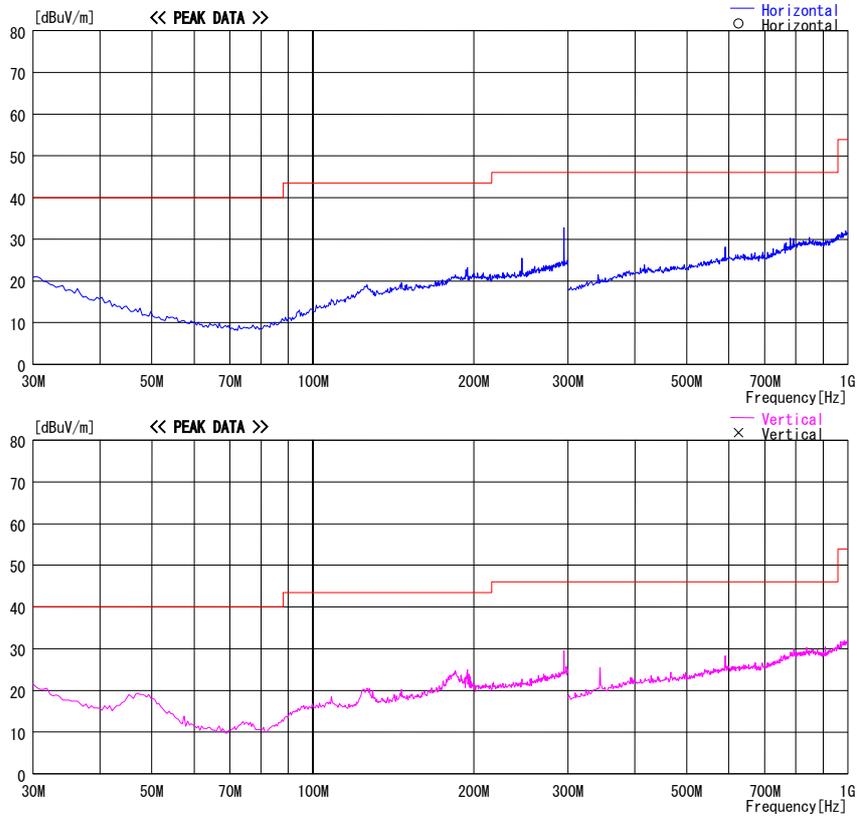


CHART: WITH FACTOR ANT TYPE: -30MHz: LOOP, 30-300MHz: BICONICAL, 300MHz-1000MHz: LOGPERIODIC, 1000MHz-: HORN  
 CALCULATION: RESULT = READING + ANT FACTOR + LOSS (CABLE+ATTEN.) - GAIN (AMP)

**Radiated Spurious Emission (above 1GHz)**  
**(Tx, Ch: Low)**

UL Apex Co., Ltd.  
Head Office EMC Lab. No.3 Semi Anechoic Chamber  
: 27DE0029-HO  
REGULATION : FCC15.247(d)/RSS-210A8.5  
TEST DISTANCE : 3/1m  
DATE : 11/07/2006  
TEMPERATURE : 23deg.C  
HUMIDITY : 32%  
ENGINEER : Makoto Kosaka

Company : Sony EMCS Corporation Kisarazu TEC  
Equipment : BLUETOOTH WIRELESS AUDIO ADAPTER  
Model : TDM-BT1  
Sample No. : 2  
Power : AC120V / 60Hz (EUT: DC5.0V)  
Mode : Tx 2402MHz BT DH5  
Remarks : Hor Y , Ver Y-axis  
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 [dBuV]	VER [dBuV]					HOR [dB]	VER [dB]			
<b>Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss</b>												
1	1602.0	51.7	49.9	26.6	33.8	1.9	0.0	46.4	44.6	74.0	27.6	29.4
2	2390.0	46.1	45.0	29.1	32.8	2.2	0.0	44.6	43.5	74.0	29.4	30.5
3	4804.0	44.7	45.5	33.4	31.6	3.5	0.1	50.1	50.9	74.0	23.9	23.1
4	7206.0	NS	NS	37.3	32.1	4.3	0.3	-	-	74.0	-	-
5	9608.0	NS	NS	39.4	33.1	5.0	0.7	-	-	74.0	-	-
<b>Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac</b>												
6	12010.0	NS	NS	40.5	33.0	5.8	0.0	-	-	74.0	-	-
7	14412.0	NS	NS	41.5	32.3	6.3	0.0	-	-	74.0	-	-
8	16814.0	NS	NS	40.4	32.1	6.8	0.0	-	-	74.0	-	-
9	19216.0	NS	NS	37.2	31.8	7.3	0.0	-	-	74.0	-	-
10	21618.0	NS	NS	37.5	32.3	7.7	0.0	-	-	74.0	-	-
11	24020.0	46.3	46.2	38.8	31.6	8.1	0.0	52.1	52.0	74.0	21.9	22.0

**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 [dBuV]	VER [dBuV]					HOR [dB]	VER [dB]			
<b>Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss</b>												
1	1602.0	47.5	44.3	26.6	33.8	1.9	0.0	42.2	39.0	54.0	11.8	15.0
2	2390.0	30.7	30.7	29.1	32.8	2.2	0.0	29.2	29.2	54.0	24.8	24.8
3	4804.0	30.2	30.0	33.4	31.6	3.5	0.1	35.6	35.4	54.0	18.4	18.6
4	7206.0	NS	NS	37.3	32.1	4.3	0.3	-	-	54.0	-	-
5	9608.0	NS	NS	39.4	33.1	5.0	0.7	-	-	54.0	-	-
<b>Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac</b>												
6	12010.0	NS	NS	40.5	33.0	5.8	0.0	-	-	54.0	-	-
7	14412.0	NS	NS	41.5	32.3	6.3	0.0	-	-	54.0	-	-
8	16814.0	NS	NS	40.4	32.1	6.8	0.0	-	-	54.0	-	-
9	19216.0	NS	NS	37.2	31.8	7.3	0.0	-	-	54.0	-	-
10	21618.0	NS	NS	37.5	32.3	7.7	0.0	-	-	54.0	-	-
11	24020.0	32.7	32.7	38.8	31.6	8.1	0.0	38.5	38.5	54.0	15.5	15.5

NS: non signal

**20dBc(Fundamental 2402MHz) (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 [dBuV]	VER [dBuV]					HOR [dB]	VER [dB]			
<b>Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss</b>												
1	2402.0	100.6	99.6	29.1	32.8	2.2	0.0	99.1	98.1	-	-	-
2	2400.0	47.3	45.9	29.1	32.8	2.2	0.0	45.8	44.4	Funda-20dB	33.3	33.7

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 Fiter was not used for factor 0.0dB of the above table.

**Radiated Spurious Emission (above 1GHz)**  
**(Tx, Ch: Mid)**

UL Apex Co., Ltd.  
Head Office EMC Lab. No.3 Semi Anechoic Chamber

Company : Sony EMCS Corporation Kisarazu TEC      REPORT NO : 27DE0029-HO  
Equipment : BLUETOOTH WIRELESS AUDIO ADAPTER      REGULATION : FCC15.247(d)/RSS-210A8.5  
Model : TDM-BT1      TEST DISTANCE : 3/1m  
Sample No. : 2      DATE : 11/07/2006  
Power : AC120V / 60Hz (EUT: DC5.0V)      TEMPERATURE : 23deg.C  
Mode : Tx 2441MHz BT DH5      HUMIDITY : 32%  
Remarks : Hor Y , Ver Y-axis      ENGINEER : Makoto Kosaka

**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 [dBuV]	VER [dBuV]					HOR [dB]	VER [dB]			
<b>Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss</b>												
1	1628.0	52.1	50.1	26.8	33.7	1.9	0.0	47.1	45.1	74.0	26.9	28.9
2	4882.0	43.9	44.4	33.6	31.6	3.5	0.0	49.4	49.9	74.0	24.6	24.1
2	7323.0	NS	NS	37.4	32.2	4.3	0.4	-	-	74.0	-	-
3	9764.0	NS	NS	39.6	33.2	5.0	0.7	-	-	74.0	-	-
<b>Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac</b>												
4	12205.0	NS	NS	40.6	32.9	5.8	0.0	-	-	74.0	-	-
5	14646.0	NS	NS	41.0	32.4	6.3	0.0	-	-	74.0	-	-
6	17087.0	NS	NS	41.3	32.0	6.8	0.0	-	-	74.0	-	-
7	19528.0	NS	NS	37.5	31.9	7.3	0.0	-	-	74.0	-	-
8	21969.0	NS	NS	37.9	32.1	7.8	0.0	-	-	74.0	-	-
9	24410.0	46.7	46.5	38.7	31.1	8.2	0.0	53.0	52.8	74.0	21.0	21.2

**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 [dBuV]	VER [dBuV]					HOR [dB]	VER [dB]			
<b>Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss</b>												
1	1628.0	47.7	44.9	26.8	33.7	1.9	0.0	42.7	39.9	54.0	11.3	14.1
2	4882.0	29.8	30.4	33.6	31.6	3.5	0.0	35.3	35.9	54.0	18.7	18.1
2	7323.0	NS	NS	37.4	32.2	4.3	0.4	-	-	54.0	-	-
3	9764.0	NS	NS	39.6	33.2	5.0	0.7	-	-	54.0	-	-
<b>Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac</b>												
4	12205.0	NS	NS	40.6	32.9	5.8	0.0	-	-	54.0	-	-
5	14646.0	NS	NS	41.0	32.4	6.3	0.0	-	-	54.0	-	-
6	17087.0	NS	NS	41.3	32.0	6.8	0.0	-	-	54.0	-	-
7	19528.0	NS	NS	37.5	31.9	7.3	0.0	-	-	54.0	-	-
8	21969.0	NS	NS	37.9	32.1	7.8	0.0	-	-	54.0	-	-
9	24410.0	31.9	31.9	38.7	31.1	8.2	0.0	38.2	38.2	54.0	15.8	15.8

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 (above 1GHz)**  
**(Tx, Ch: High)**

UL Apex Co., Ltd.  
Head Office EMC Lab. No.3 Semi Anechoic Chamber

Company : Sony EMCS Corporation Kisarazu TEC      REPORT NO : 27DE0029-HO  
Equipment : BLUETOOTH WIRELESS AUDIO ADAPTER      REGULATION : FCC15.247(d)/RSS-210A8.5  
Model : TDM-BT1      TEST DISTANCE : 3/1m  
Sample No. : 2      DATE : 11/07/2006  
Power : AC120V / 60Hz (EUT: DV5.0V)      TEMPERATURE : 23deg.C  
Mode : Tx 2480MHz BT DH5      HUMIDITY : 32%  
Remarks : Hor Y , Ver Y-axis      ENGINEER : Makoto Kosaka

**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
<b>Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss</b>												
1	1654.0	52.6	48.3	26.9	33.7	1.9	0.0	47.7	43.4	74.0	26.3	30.6
2	2483.5	55.6	55.6	29.2	32.7	2.3	0.0	54.4	54.4	74.0	19.6	19.6
3	4960.0	43.9	43.8	33.7	31.6	3.5	0.0	49.5	49.4	74.0	24.5	24.6
4	7440.0	NS	NS	37.6	32.3	4.3	0.5	-	-	74.0	-	-
5	9920.0	NS	NS	39.8	33.2	5.1	0.7	-	-	74.0	-	-
<b>Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac</b>												
6	12400.0	NS	NS	40.6	32.8	5.9	0.0	-	-	74.0	-	-
7	14880.0	NS	NS	40.4	32.4	6.3	0.0	-	-	74.0	-	-
8	17360.0	NS	NS	42.7	31.9	6.9	0.0	-	-	74.0	-	-
9	19840.0	NS	NS	37.5	32.0	7.4	0.0	-	-	74.0	-	-
10	22320.0	NS	NS	37.9	32.0	7.9	0.0	-	-	74.0	-	-
11	24800.0	46.3	46.3	38.7	30.6	8.3	0.0	53.2	53.2	74.0	20.8	20.8

**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
<b>Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss</b>												
1	1654.0	48.3	40.9	26.9	33.7	1.9	0.0	43.4	36.0	54.0	10.6	18.0
2	2483.5	33.3	33.6	29.2	32.7	2.3	0.0	32.1	32.4	54.0	21.9	21.6
3	4960.0	29.7	30.1	33.7	31.6	3.5	0.0	35.3	35.7	54.0	18.7	18.3
4	7440.0	NS	NS	37.6	32.3	4.3	0.5	-	-	54.0	-	-
5	9920.0	NS	NS	39.8	33.2	5.1	0.7	-	-	54.0	-	-
<b>Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac</b>												
6	12400.0	NS	NS	40.6	32.8	5.9	0.0	-	-	54.0	-	-
7	14880.0	NS	NS	40.4	32.4	6.3	0.0	-	-	54.0	-	-
8	17360.0	NS	NS	42.7	31.9	6.9	0.0	-	-	54.0	-	-
9	19840.0	NS	NS	37.5	32.0	7.4	0.0	-	-	54.0	-	-
10	22320.0	NS	NS	37.9	32.0	7.9	0.0	-	-	54.0	-	-
11	24800.0	31.9	31.9	38.7	30.6	8.3	0.0	38.8	38.8	54.0	15.2	15.2

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 (above 1GHz)**  
**(Rx, Ch: Mid)**

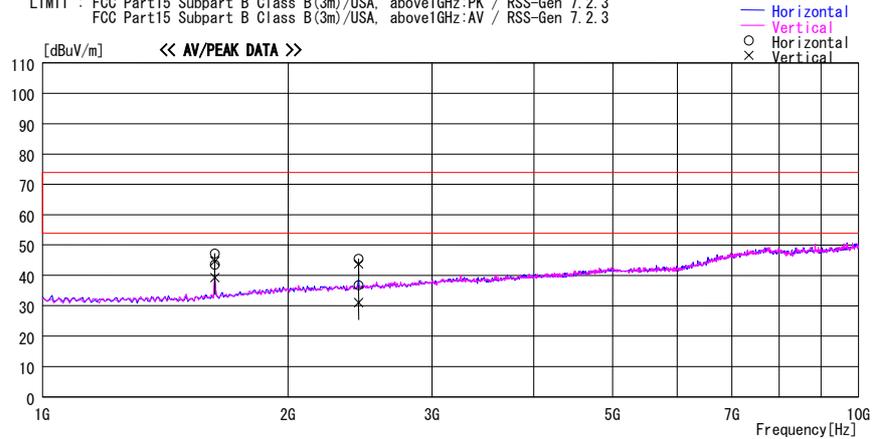
**DATA OF RADIATED EMISSION TEST**

UL Apex Co., Ltd. Head Office EMC Lab. No. 3 Semi Anechoic Chamber  
Date : 2006/11/08 03:08:11

Company : Sony EMCS Corporation Kisarazu TEC Report No. : 27DE0029-HO  
Kind of EUT : BLUETOOTH WIRELESS AUDIO ADAPTER Power : AC120V/60Hz (EUT:DC 5.0V)  
Model No. : TDM-BT1 Temp./Humi. : 23deg. C. / 32%  
Serial No. : 2 Operator : Makoto Kosaka

Mode / Remarks : BT Rx 2441MHz H/V Y-axis (worst)

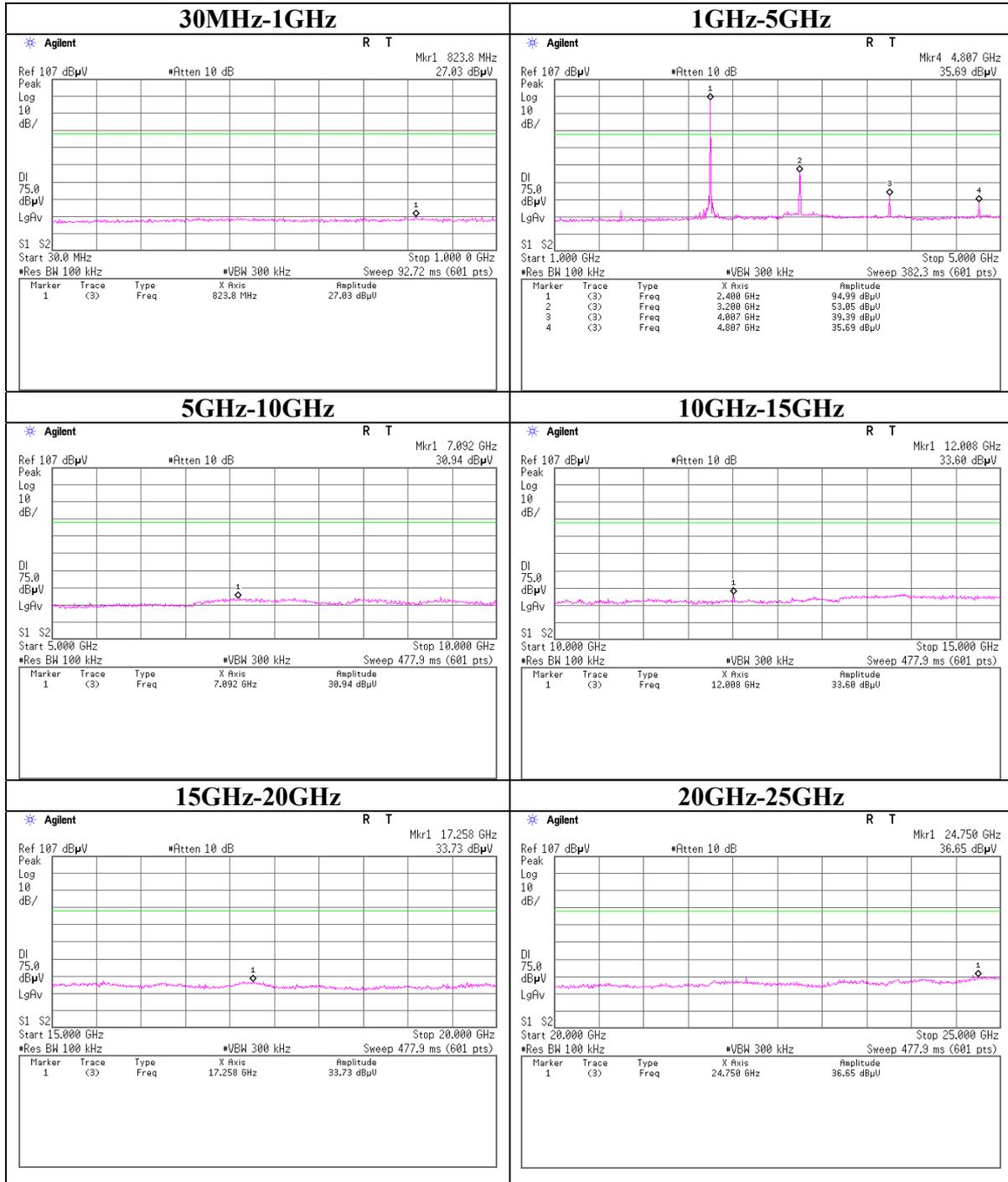
LIMIT : FCC Part15 Subpart B Class B (3m)/USA, above1GHz:PK / RSS-Gen 7.2.3  
FCC Part15 Subpart B Class B (3m)/USA, above1GHz:AV / RSS-Gen 7.2.3



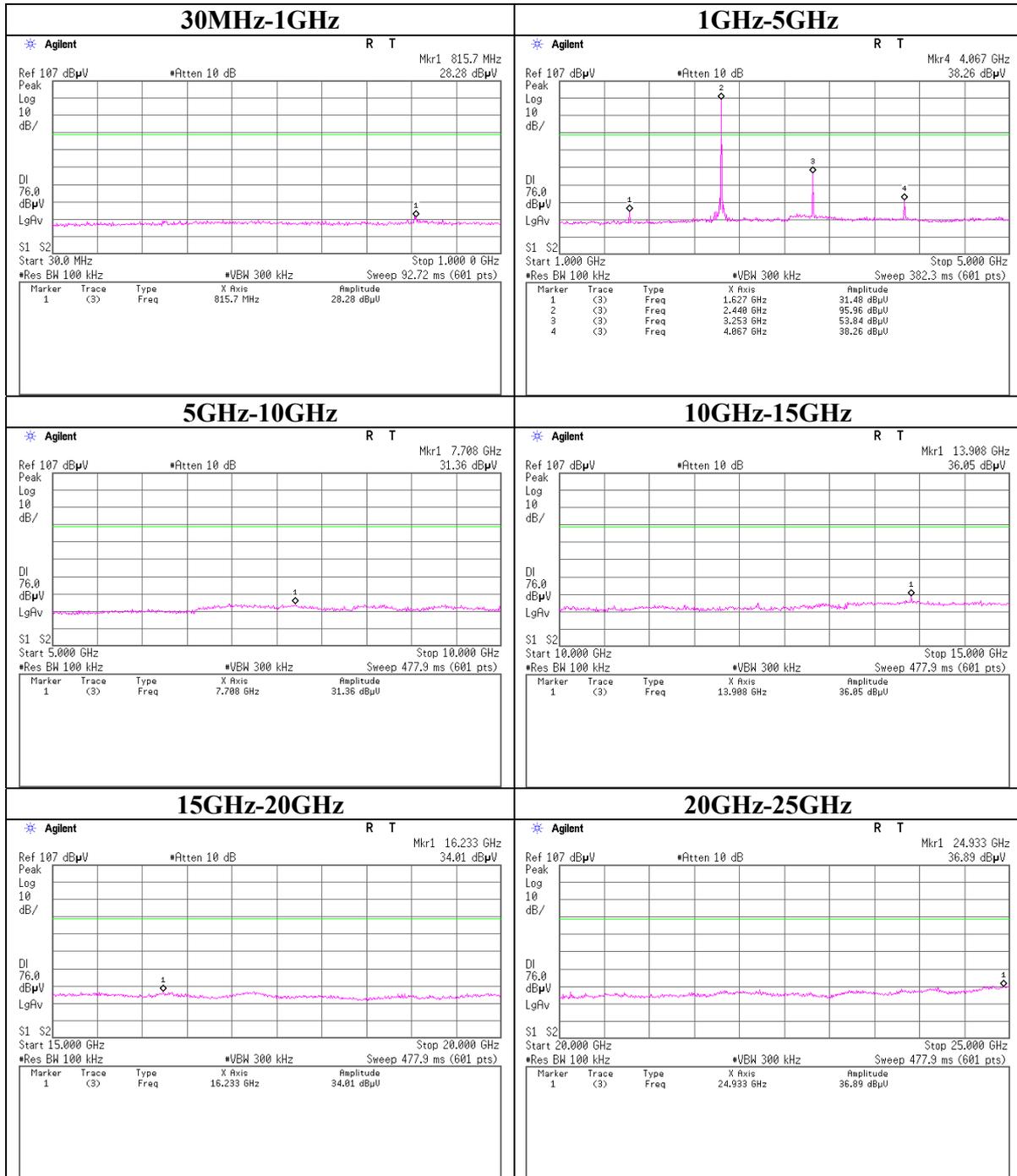
Frequency [MHz]	Reading [dBuV]	DET	Antenna	Loss&	Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV/m]	Margin [dB]	Comment
			Factor [dB/m]	Gain [dB]							
1626.358	52.3	PK	26.8	-31.8	47.3	178	168	Hori.	73.9	26.6	
1626.358	49.7	PK	26.8	-31.8	44.7	256	132	Vert.	73.9	29.2	
1626.358	48.6	AV	26.8	-31.8	43.6	178	168	Hori.	53.9	10.3	
1626.358	44.3	AV	26.8	-31.8	39.3	256	132	Vert.	53.9	14.6	
2439.520	46.9	PK	29.1	-30.5	45.5	19	105	Hori.	73.9	28.4	
2439.520	45.2	PK	29.1	-30.5	43.8	117	112	Vert.	73.9	30.1	
2439.520	38.2	AV	29.1	-30.5	36.8	19	105	Hori.	53.9	17.1	
2439.520	32.5	AV	29.1	-30.5	31.1	117	112	Vert.	53.9	22.8	

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)

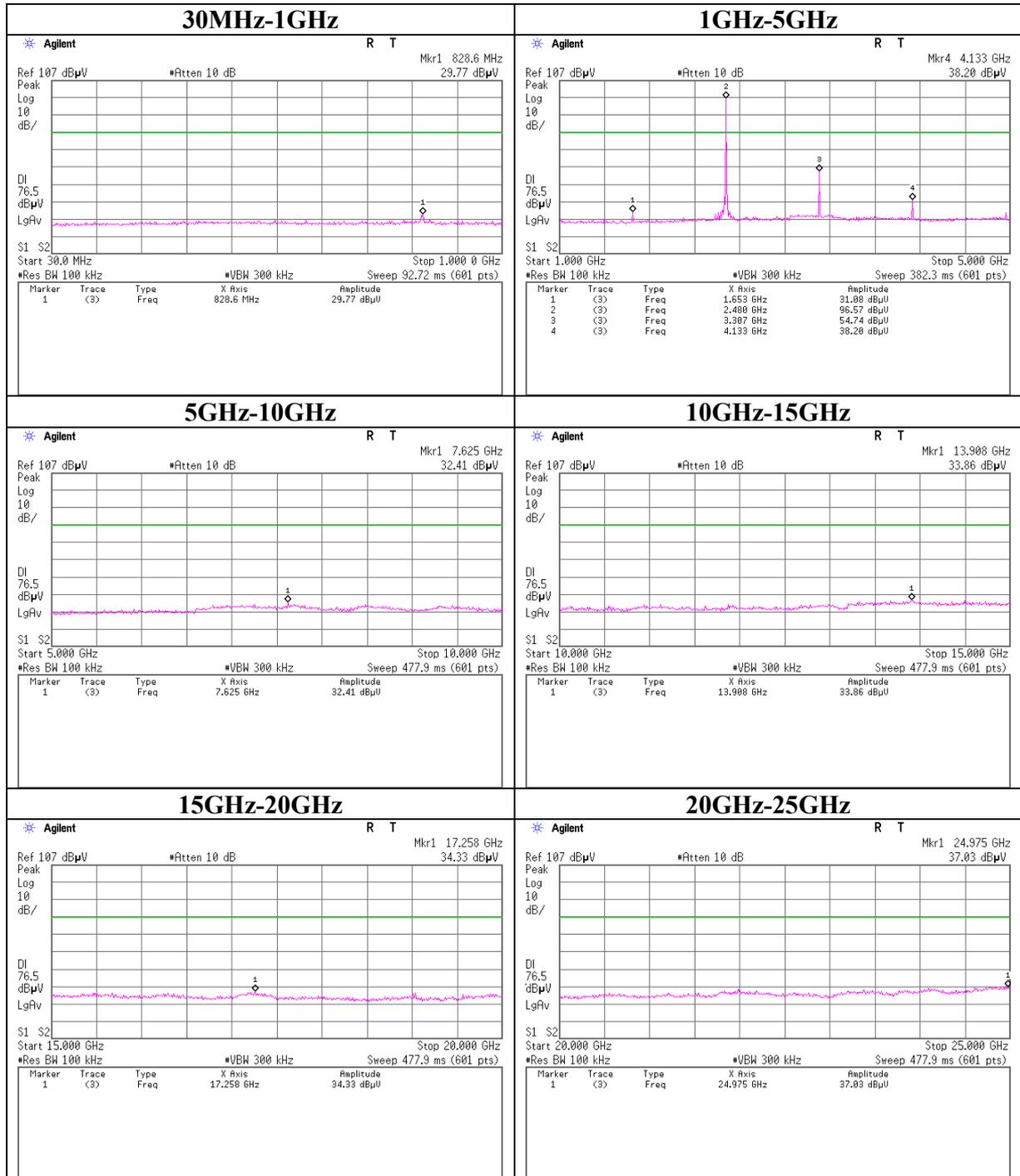
**Conducted Spurious Emission**  
**(Tx, Ch:Low)**



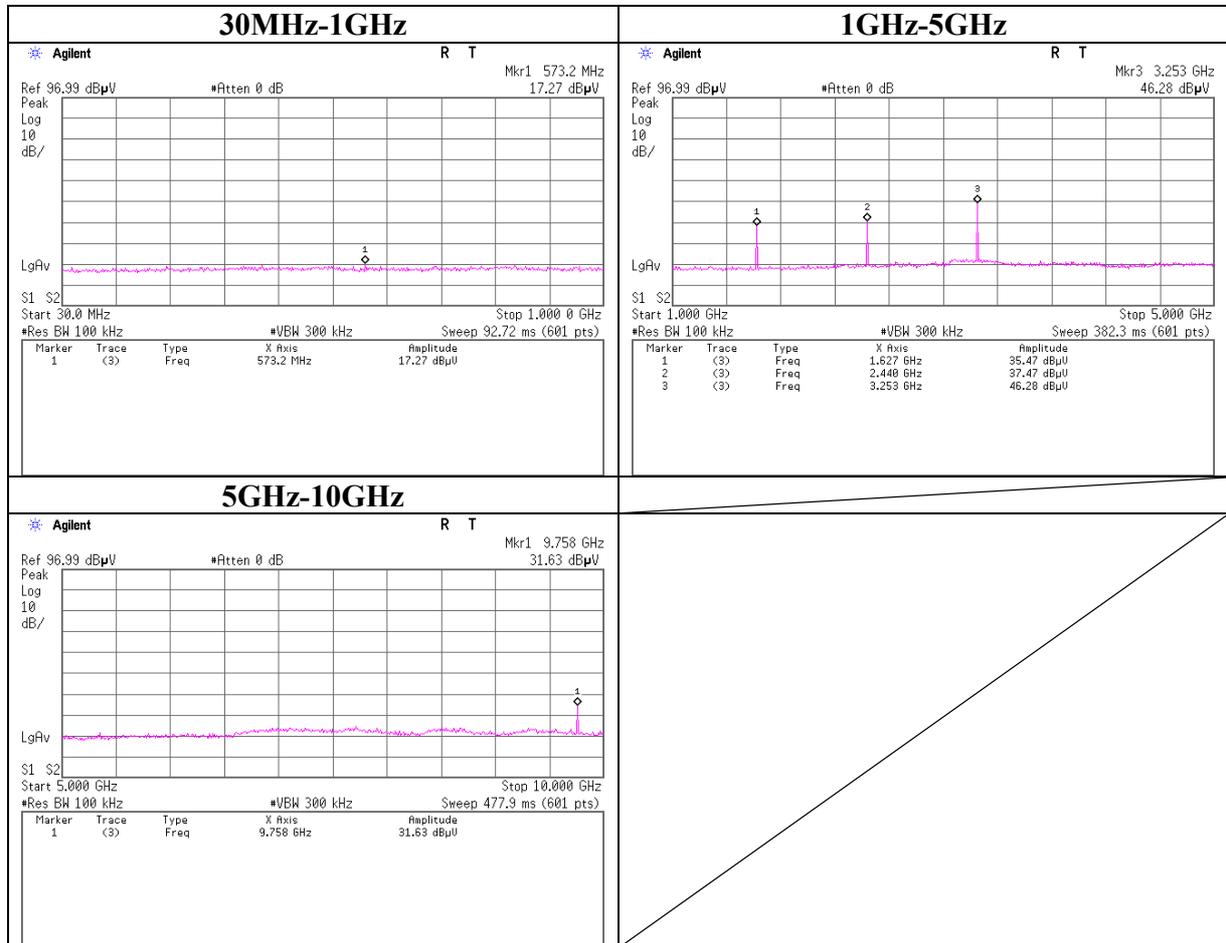
**Conducted Spurious Emission**  
**(Tx, Ch:Mid)**



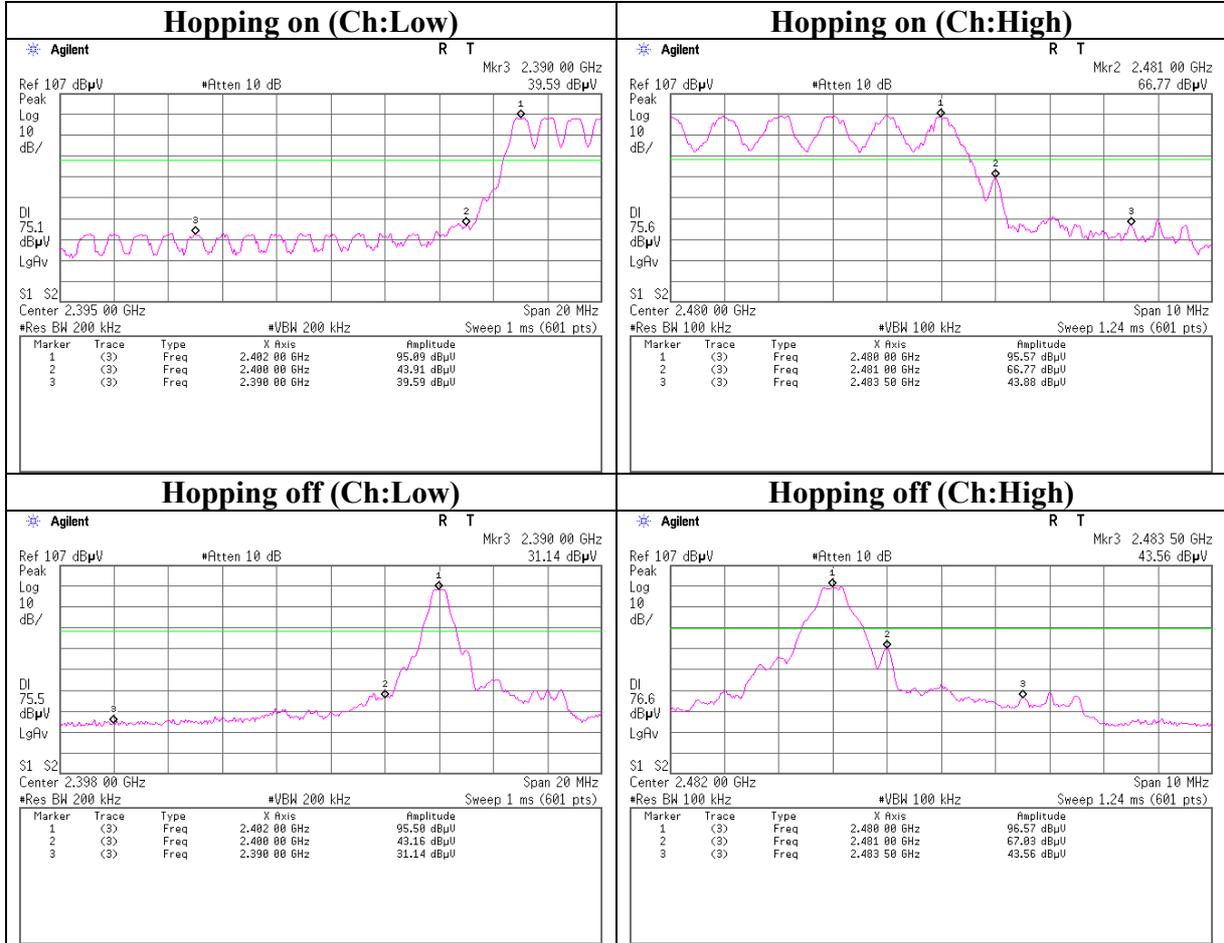
**Conducted Spurious Emission**  
**(Tx, Ch:High)**



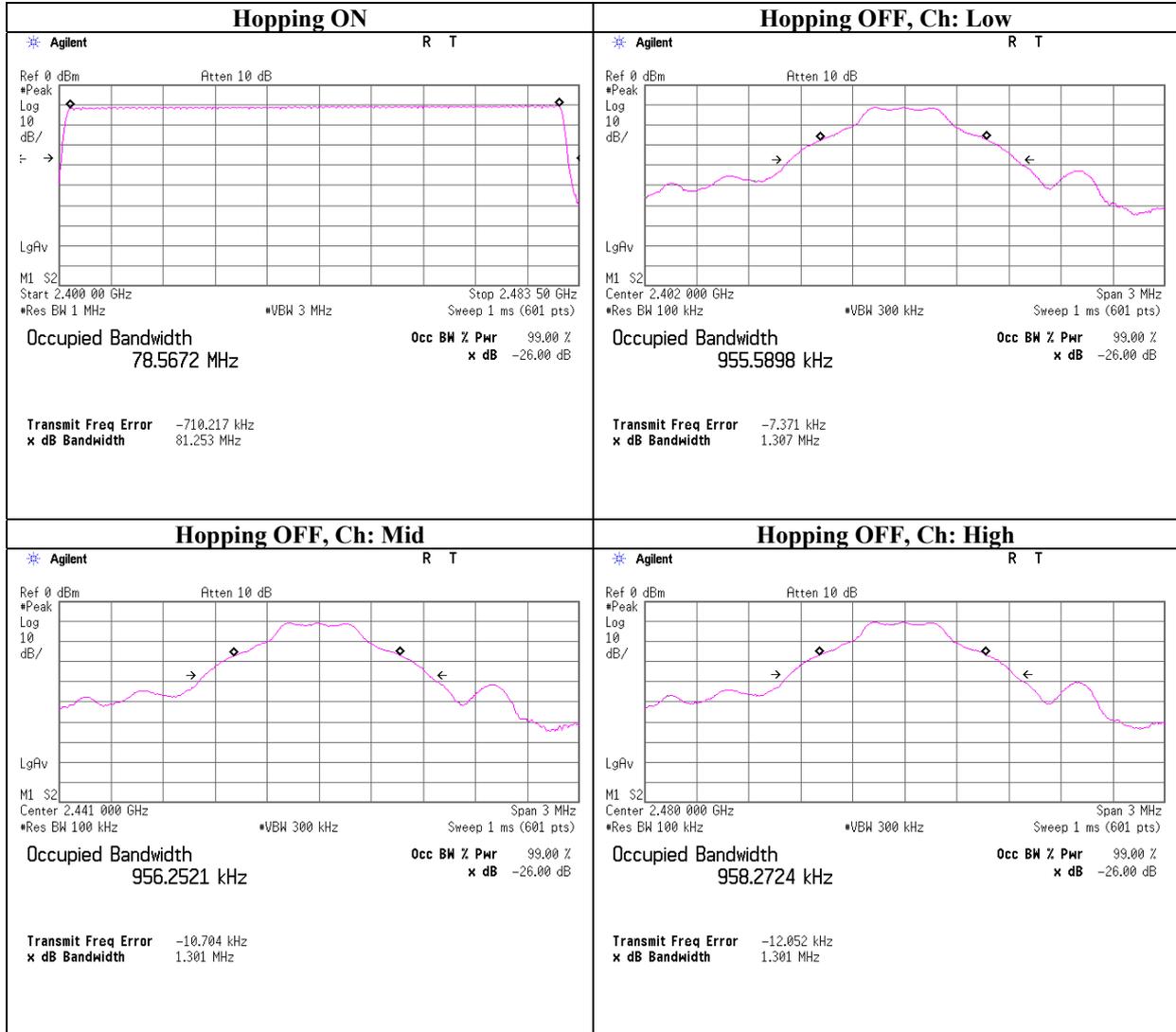
**Conducted Spurious Emission**  
**(Rx, Ch: Mid)**



## Conducted Spurious Emission Band Edge compliance



### 99% Occupied Bandwidth



### APPENDIX 3:Test instruments

#### EMI test equipment

Control No.	Instrument	Manufacturer	Model No	Test Item	Calibration Date * Interval(month)
MAEC-03	Anechoic Chamber	TDK	Semi Anechoic Chamber 3m	RE/CE	2006/03/03 * 12
MBA-03	Biconical Antenna	Schwarzbeck	BBA9106	RE	2006/01/29 * 12
MLA-03	Logperiodic Antenna	Schwarzbeck	USLP9143	RE	2006/01/29 * 12
MAT-30	Attenuator(6dB)	TME	UFA-01	RE	2006/03/11 * 12
MCC-51	Coaxial cable	UL Apex	-	RE/CE	2006/03/11 * 12
MPA-13	Pre Amplifier	SONOA INSTRUMENT	310	RE	2006/03/25 * 12
MSA-06	Spectrum Analyzer	Agilent	E4407B	RE	2006/05/24 * 12
MHA-20	Horn Antenna 1-18GHz	Schwarzbeck	BBHA9120D	RE	2006/04/06 * 12
MHA-16	Horn Antenna 15-40GHz	Schwarzbeck	BBHA9170	RE	2006/04/15 * 12
MCC-56	Microwave Cable 1G-26.5GHz	Suhner	SUCOFLEX104	RE	2006/04/15 * 12
MPA-11	MicroWave System Amplifier	Agilent	83017A	RE	2006/03/27 * 12
MHF-06	High Pass Filter 3.5-24GHz	Tokimec	TF323DCA	RE	2006/05/20 * 12
MSA-04	Spectrum Analyzer	Agilent	E4448A	RE	2006/06/02 * 12
MSA-05	Spectrum Analyzer	Advantest	R3273	CE	2006/05/20 * 12
MLS-06	LISN(AMN)	Schwarzbeck	NSLK8127	CE (EUT)	2006/02/06 * 12
MOS-12	Thermo-Hygrometer	Custom	CTH-180	RE/CE	2006/01/19 * 24
MJM-06	Measure	PROMART	SEN1955	RE/CE	-
MSTW-14	EMI measurement program	TSJ	TEPTO-DV	RE/CE	-
MCC-15	Microwave Cable 1G-26.5GHz 1m	Suhner	SUCOFLEX 104	AT	2006/02/02 * 12
MAT-23	Attenuator(10dB) DC-18GHz	Orient Microwave	BX10-0476-00	AT	2006/03/18 * 12
MSA-03	Spectrum Analyzer	Agilent	E4448A	AT	2006/09/13 * 12
MOS-04	Digital Humidity Indicator	N.T	NT-1800	AT	2004/11/25 * 24
MCC-16	Microwave Cable 1G-26.5GHz	Suhner	SUCOFLEX 104	AT	2006/02/02 * 12
MAT-20	Attenuator(10dB)(above 1GHz)	HIROSE ELECTRIC CO.,LTD.	AT-110	AT	2006/01/10 * 12
MPM-09	Power Meter	Anritsu	ML2495A	AT	2006/09/20 * 12
MPSE-12	Power sensor	Anritsu	MA2411B	AT	2006/09/20 * 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:

AT: Antenna Terminal Conducted test  
CE: Conducted Emission  
RE: Radiated Emission

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MF060b(14.06.06)