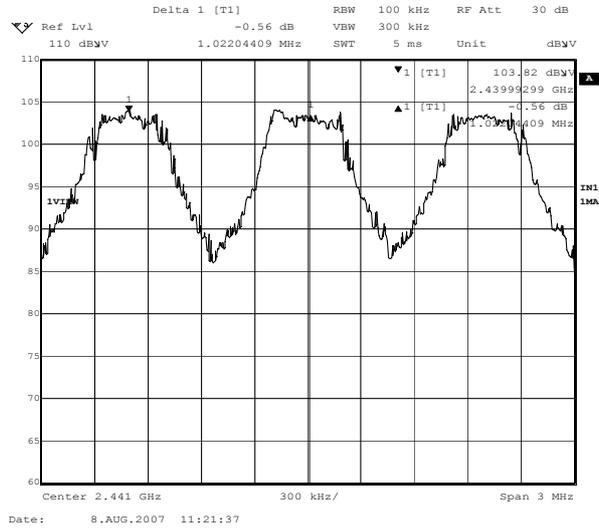


# Channel Separation: FCC 15.247(a)(1)

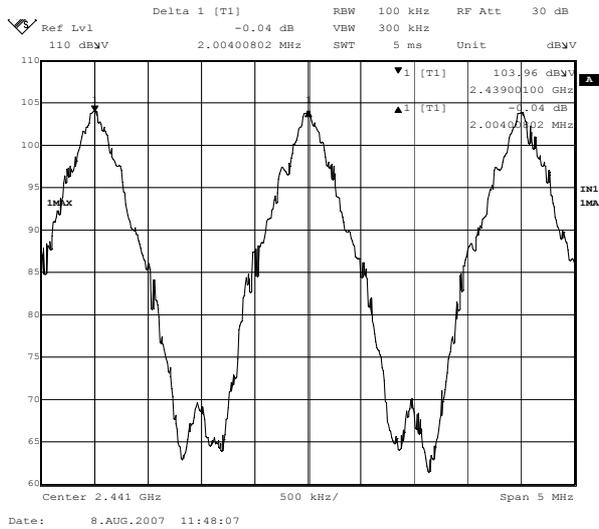
COMPANY : Sony Corporation  
EQUIPMENT : Portable Stereo Transmitter  
MODEL NUMBER: TMR-BT10A  
SERIAL NUMBER: 802  
FCC ID : AK8TMRBT10A  
POWER : DC3.7V

UL Japan, Inc. Yamakita No.4 Shielded Room  
REPORT NO : 27LE0042-YK-A  
REGULATION : Fcc Part15SubpartC 247(a)(1)  
DATE : 2007/08/08  
TEMP./HUMI : 24deg.C./62%  
TEST MODE : Transmitting  
ENGINEER : Tatsuya Arai

## 1. Hopping:1022.04kHz



## 2. Inquiry:2004.01kHz

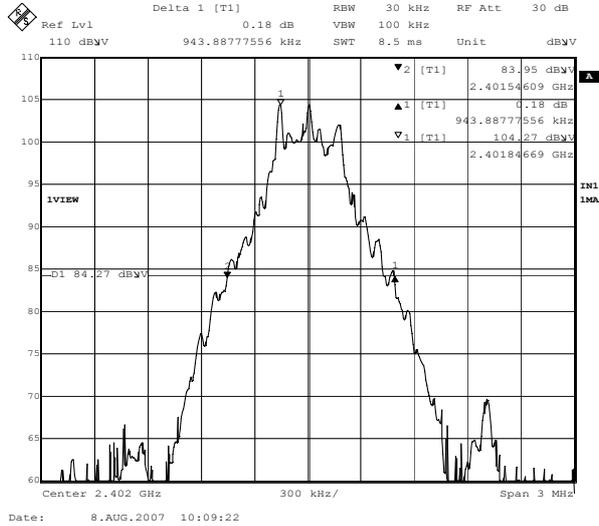


## 20dB Bandwidth: FCC 15.247(a)(1)

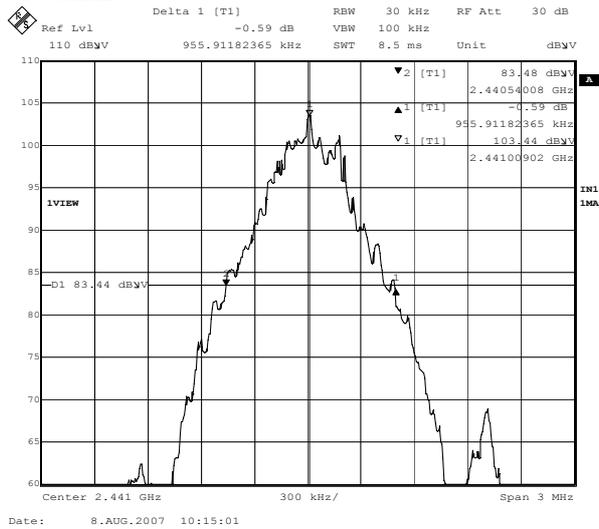
**COMPANY** : Sony Corporation  
**EQUIPMENT** : Portable Stereo Transmitter  
**MODEL NUMBER**: TMR-BT10A  
**SERIAL NUMBER**: 802  
**FCC ID** : AK8TMRBT10A  
**POWER** : DC3.7V

**UL Japan, Inc. Yamakita No.4 Shielded Room**  
**REPORT NO.** : 27LE0042-YK-A  
**REGULATION** : Fcc Part15SubpartC 247(a)(1)  
**DATE** : 2007/08/08  
**TEMP./HUMI** : 24deg.C./62%  
**TEST MODE** : Transmitting (Hopping off)  
**ENGINEER** : Tatsuya Arai

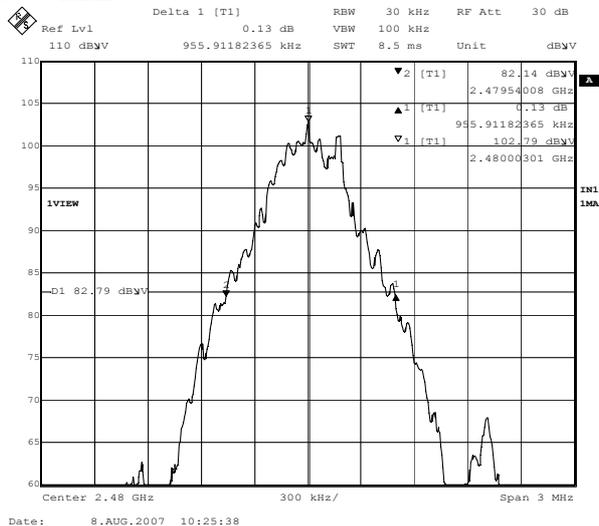
### 1. ch : 2402MHz/20dB Bandwidth:943.89kHz



### 2. ch : 2441MHz/20dB Bandwidth:955.91kHz



### 3. ch : 2480MHz/20dB Bandwidth:955.91kHz

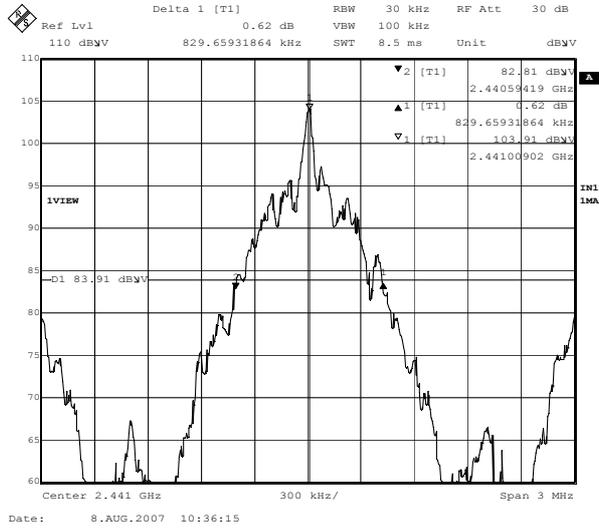


**20dB Bandwidth: FCC 15.247(a)(1)**

COMPANY : Sony Corporation  
 EQUIPMENT : Portable Stereo Transmitter  
 MODEL NUMBER: TMR-BT10A  
 SERIAL NUMBER: 802  
 FCC ID : AK8TMRBT10A  
 POWER : DC3.7V

UL Japan, Inc. Yamakita No.4 Shielded Room  
 REPORT NO. : 27LE0042-YK-A  
 REGULATION : Fcc Part15SubpartC 247(a)(1)  
 DATE : 2007/08/08  
 TEMP./HUMI : 24deg.C./62%  
 TEST MODE : Transmitting (Hopping off)  
 ENGINEER : Tatsuya Arai

**4. Inquiry/20dB Bandwidth:829.66kHz**



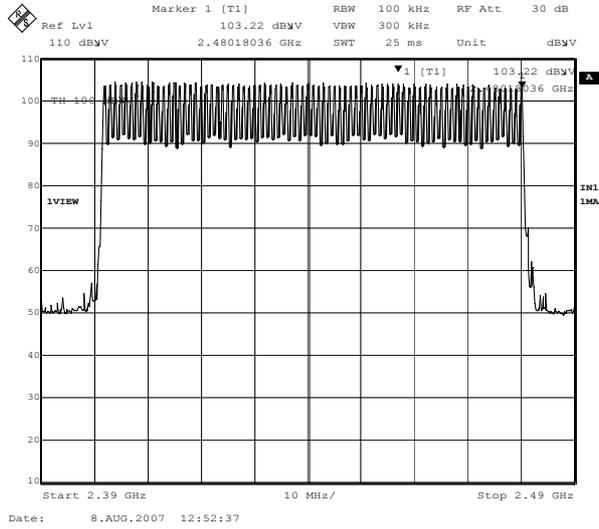
# Channel Utilization: FCC 15.247(a)(1)(iii)

**COMPANY** : Sony Corporation  
**EQUIPMENT** : Portable Stereo Transmitter  
**MODEL NUMBER**: TMR-BT10A  
**SERIAL NUMBER**: 802  
**FCC ID** : AK8TMRBT10A  
**POWER** : DC3.7V

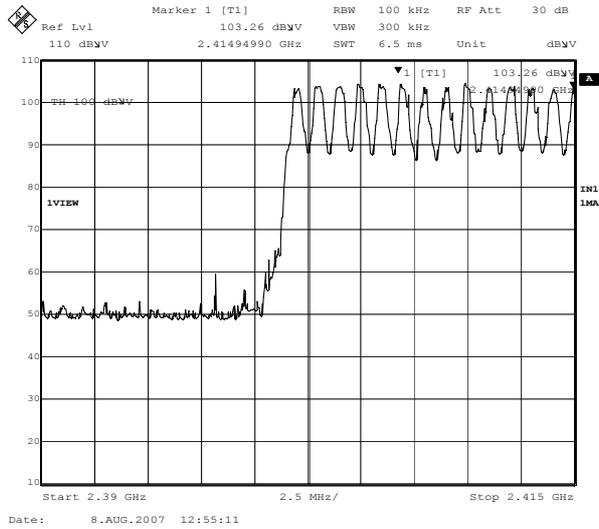
**UL Japan, Inc. Yamakita No.4 Shielded Room**  
**REPORT NO** : 27LE0042-YK-A  
**REGULATION** : Fcc Part15SubpartC 247(a)(1)(iii)  
**DATE** : 2007/08/08  
**TEMP./HUMI** : 24deg.C./62%  
**TEST MODE** : Transmitting  
**ENGINEER** : Tatsuya Arai

## Hopping: 79ch

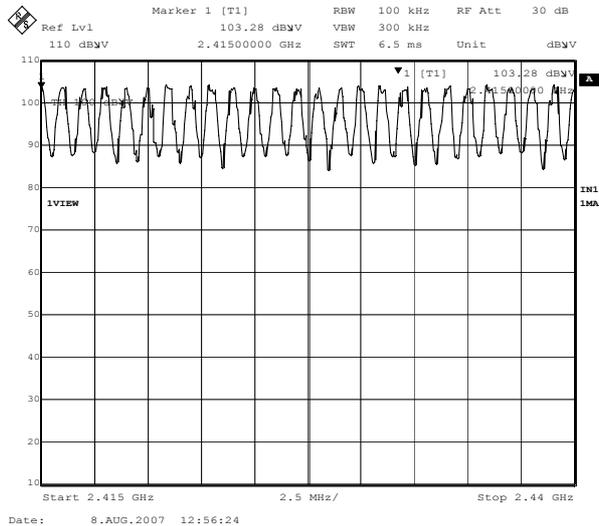
1.



2.



3.

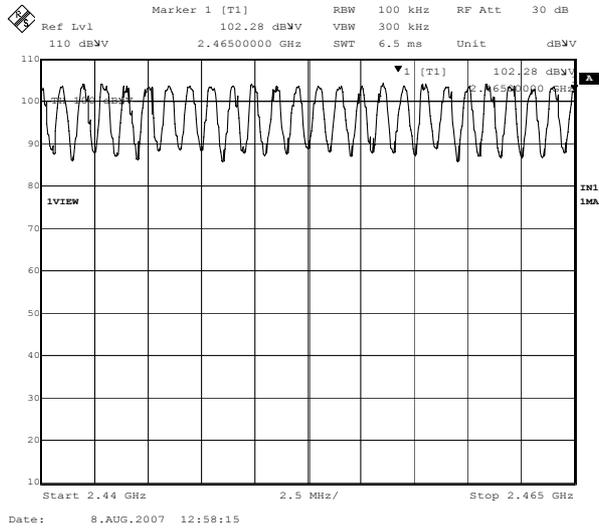


### Channel Utilization: FCC 15.247(a)(1)(iii)

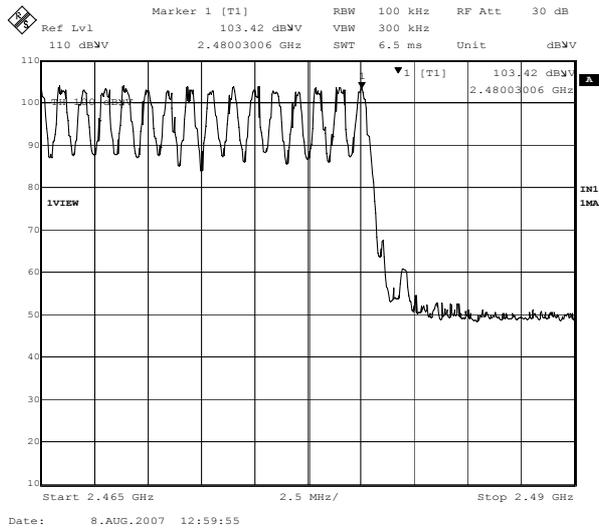
**COMPANY** : Sony Corporation  
**EQUIPMENT** : Portable Stereo Transmitter  
**MODEL NUMBER**: TMR-BT10A  
**SERIAL NUMBER**: 802  
**FCC ID** : AK8TMRBT10A  
**POWER** : DC3.7V

**UL Japan, Inc. Yamakita No.4 Shielded Room**  
**REPORT NO** : 27LE0042-YK-A  
**REGULATION** : Fcc Part15SubpartC 247(a)(1)(iii)  
**DATE** : 2007/08/08  
**TEMP./HUMI** : 24deg.C./62%  
**TEST MODE** : Transmitting  
**ENGINEER** : Tatsuya Arai

4.



5.

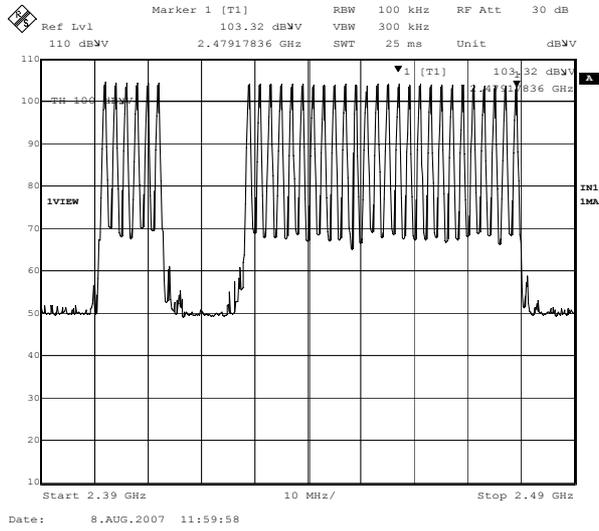


# Channel Utilization: FCC 15.247(a)(1)(iii)

COMPANY : Sony Corporation  
EQUIPMENT : Portable Stereo Transmitter  
MODEL NUMBER: TMR-BT10A  
SERIAL NUMBER: 802  
FCC ID : AK8TMRBT10A  
POWER : DC3.7V

UL Japan, Inc. Yamakita No.4 Shielded Room  
REPORT NO : 27LE0042-YK-A  
REGULATION : Fcc Part15SubpartC 247(a)(1)(iii)  
DATE : 2007/08/08  
TEMP./HUMI : 24deg.C./62%  
TEST MODE : Transmitting  
ENGINEER : Tatsuya Arai

## 1. Inquiry: 32ch



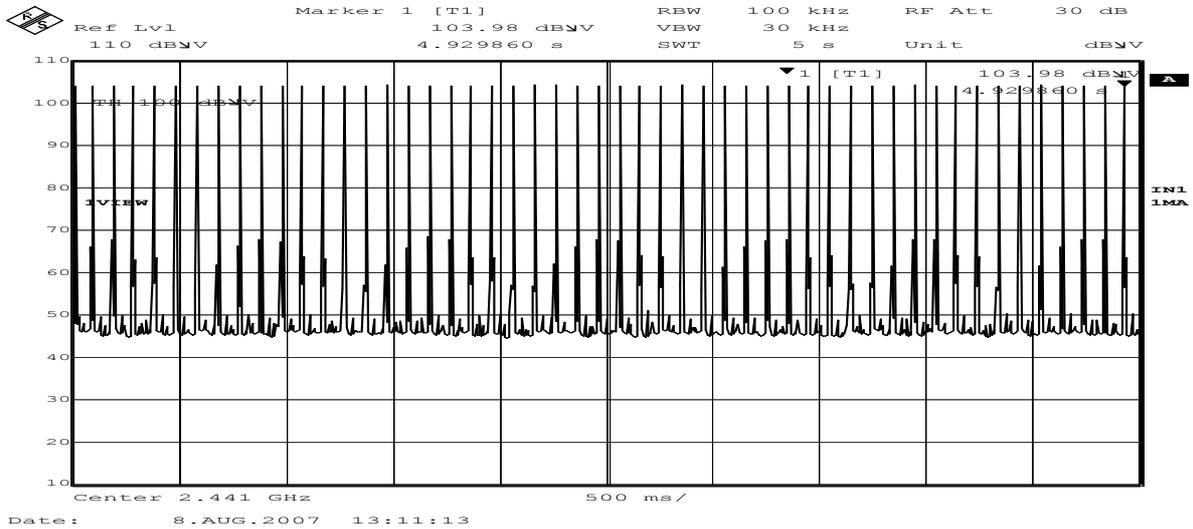
# Dwell Time: FCC 15.247(a)(1)(iii)

COMPANY : Sony Corporation  
EQUIPMENT : Portable Stereo Transmitter  
MODEL NUMBER: TMR-BT10A  
SERIAL NUMBER: 802  
FCC ID : AK8TMRBT10A  
POWER : DC3.7V

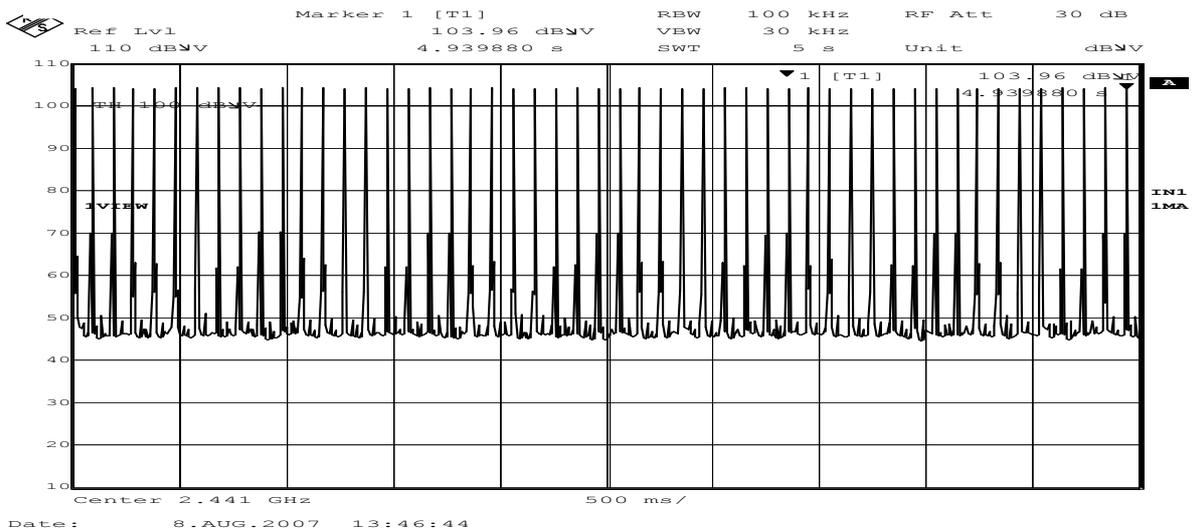
UL Japan, Inc. Yamakita No.4 Shielded Room  
REPORT NO : 27LE0042-YK-A  
REGULATION : Fcc Part15SubpartC 247(a)(1)(iii)  
DATE : 2007/08/08  
TEMP./HUMI : 24deg.C./62%  
TEST MODE : Transmitting  
ENGINEER : Tatsuya Arai

## Hopping [DH1]

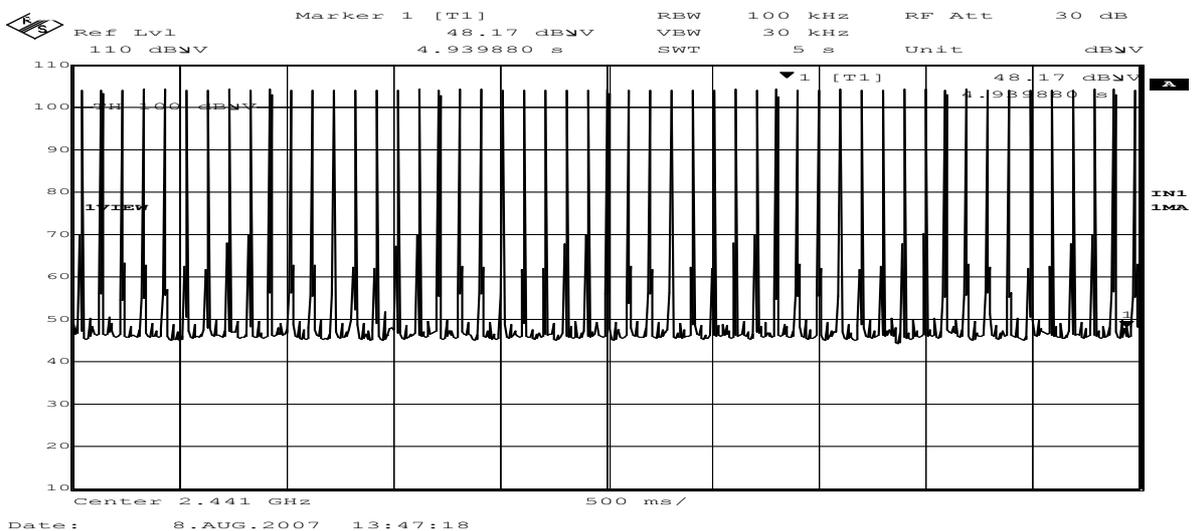
### Count 1



### Count 2



### Count 3

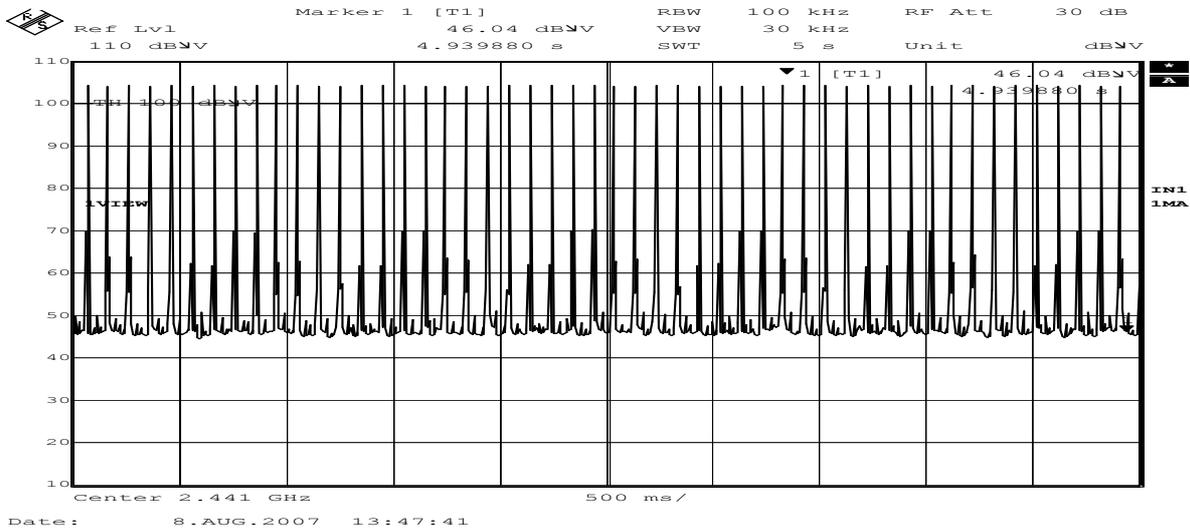


**Dwell Time: FCC 15.247(a)(1)(iii)**

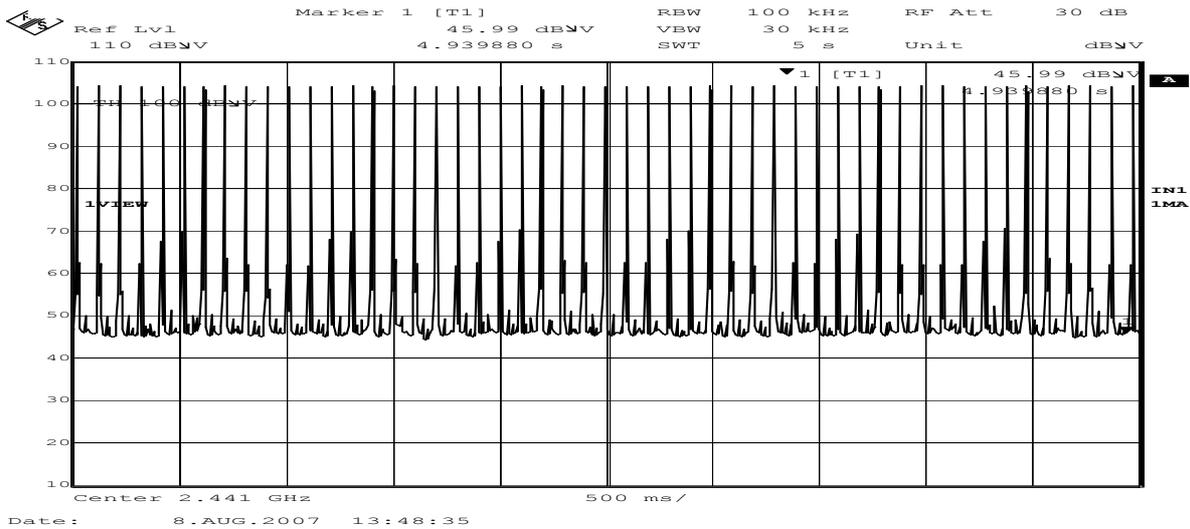
**COMPANY** : Sony Corporation  
**EQUIPMENT** : Portable Stereo Transmitter  
**MODEL NUMBER**: TMR-BT10A  
**SERIAL NUMBER**: 802  
**FCC ID** : AK8TMRBT10A  
**POWER** : DC3.7V

**UL Japan, Inc. Yamakita No.4 Shielded Room**  
**REPORT NO** : 27LE0042-YK-A  
**REGULATION** : Fcc Part15SubpartC 247(a)(1)(iii)  
**DATE** : 2007/08/08  
**TEMP./HUMI** : 24deg.C./62%  
**TEST MODE** : Transmitting  
**ENGINEER** : Tatsuya Arai

Count 4



Count 5



**Duty cycle(Hopping DH1)**



Average times of rising in 30 sec. of sweep =  $(61 + 61 + 61 + 60 + 61) / 5 = 60.8$

Average times of rising in 1 sec. =  $60.8 / 30s = 2.03$

Average times of rising in 0.4x =  $0.4 * 79ch * 2.03 = 64.15$

Dwell time =  $64.15 * 2.92 = 187.32$  [ms]

Limit : Dwell Time < 0.4[s]

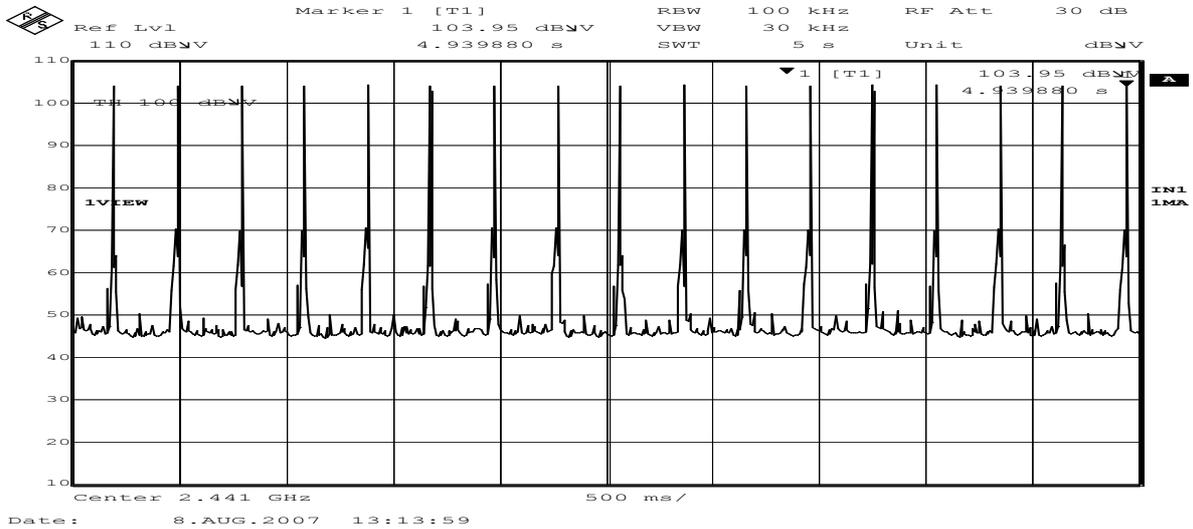
# Dwell Time: FCC 15.247(a)(1)(iii)

COMPANY : Sony Corporation  
EQUIPMENT : Portable Stereo Transmitter  
MODEL NUMBER: TMR-BT10A  
SERIAL NUMBER: 802  
FCC ID : AK8TMRBT10A  
POWER : DC3.7V

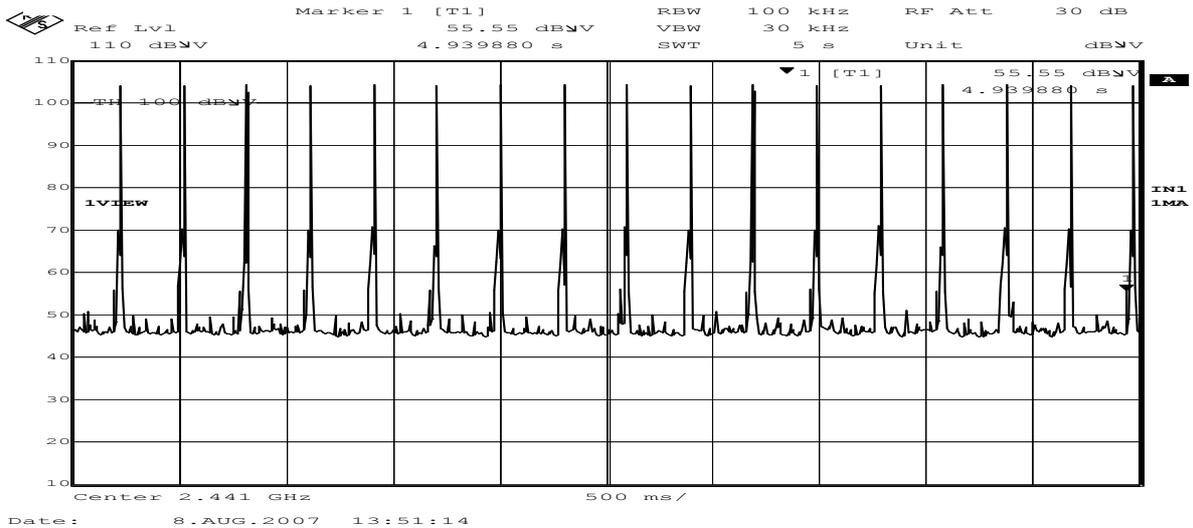
UL Japan, Inc. Yamakita No.4 Shielded Room  
REPORT NO : 27LE0042-YK-A  
REGULATION : Fcc Part15SubpartC 247(a)(1)(iii)  
DATE : 2007/08/08  
TEMP./HUMI : 24deg.C./62%  
TEST MODE : Transmitting  
ENGINEER : Tatsuya Arai

## Hopping [DH3]

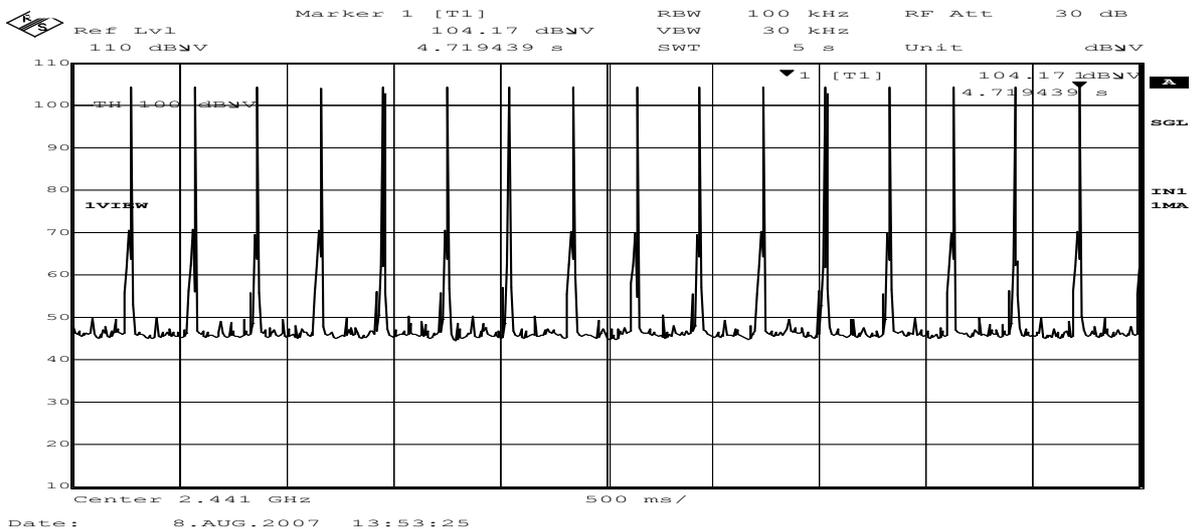
### Count 1



### Count 2



### Count 3

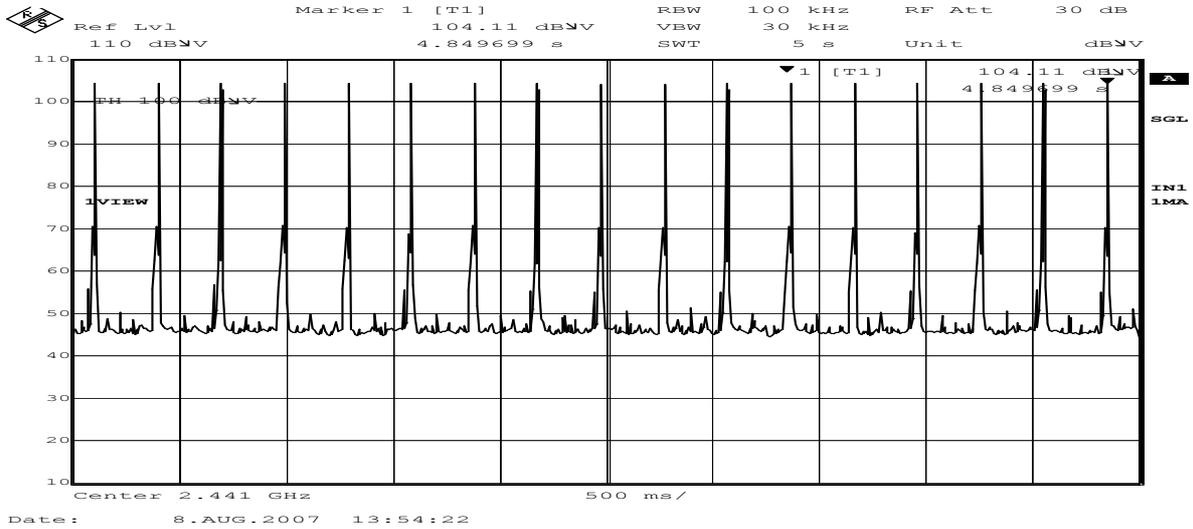


**Dwell Time: FCC 15.247(a)(1)(iii)**

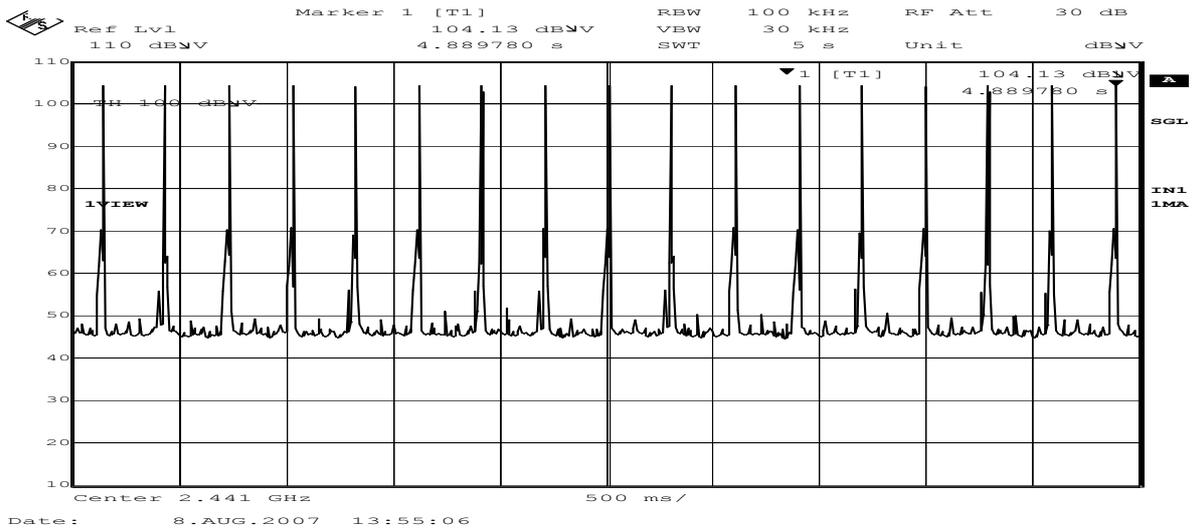
**COMPANY** : Sony Corporation  
**EQUIPMENT** : Portable Stereo Transmitter  
**MODEL NUMBER**: TMR-BT10A  
**SERIAL NUMBER**: 802  
**FCC ID** : AK8TMRBT10A  
**POWER** : DC3.7V

**UL Japan, Inc. Yamakita No.4 Shielded Room**  
**REPORT NO** : 27LE0042-YK-A  
**REGULATION** : Fcc Part15SubpartC 247(a)(1)(iii)  
**DATE** : 2007/08/08  
**TEMP./HUMI** : 24deg.C./62%  
**TEST MODE** : Transmitting  
**ENGINEER** : Tatsuya Arai

Count 4



Count 5



**Duty cycle(Hopping DH3)**



Average times of rising in 30 sec. of sweep =  $(61 + 61 + 61 + 60 + 61) / 5 = 60.8$

Average times of rising in 1 sec. =  $60.8 / 30s = 2.03$

Average times of rising in 0.4x =  $0.4 * 79ch * 2.03 = 64.15$

Dwell time =  $64.15 * 2.92 = 187.32$  [ms]

Limit : Dwell Time < 0.4[s]

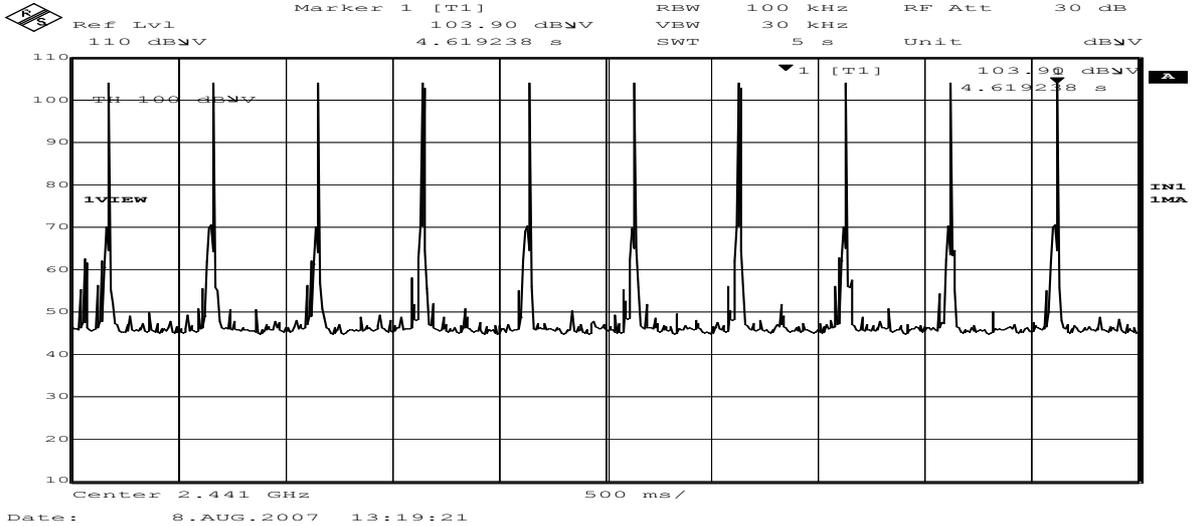
Dwell Time: FCC 15.247(a)(1)(iii)

COMPANY : Sony Corporation  
EQUIPMENT : Portable Stereo Transmitter  
MODEL NUMBER: TMR-BT10A  
SERIAL NUMBER: 802  
FCC ID : AK8TMRBT10A  
POWER : DC3.7V

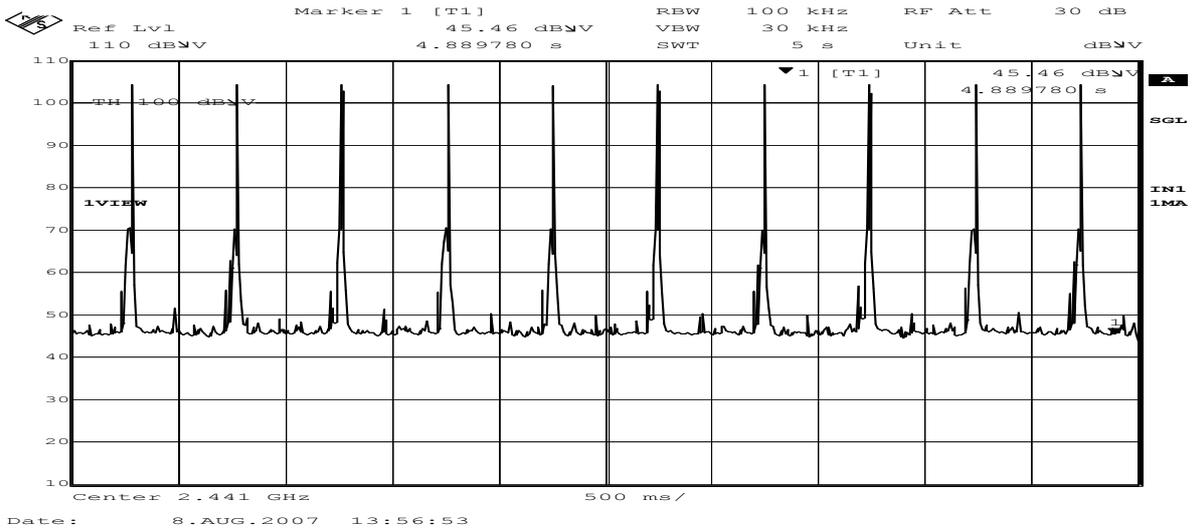
UL Japan, Inc. Yamakita No.4 Shielded Room  
REPORT NO : 27LE0042-YK-A  
REGULATION : Fcc Part15SubpartC 247(a)(1)(iii)  
DATE : 2007/08/08  
TEMP./HUMI : 24deg.C./62%  
TEST MODE : Transmitting  
ENGINEER : Tatsuya Arai

Hopping [DH5]

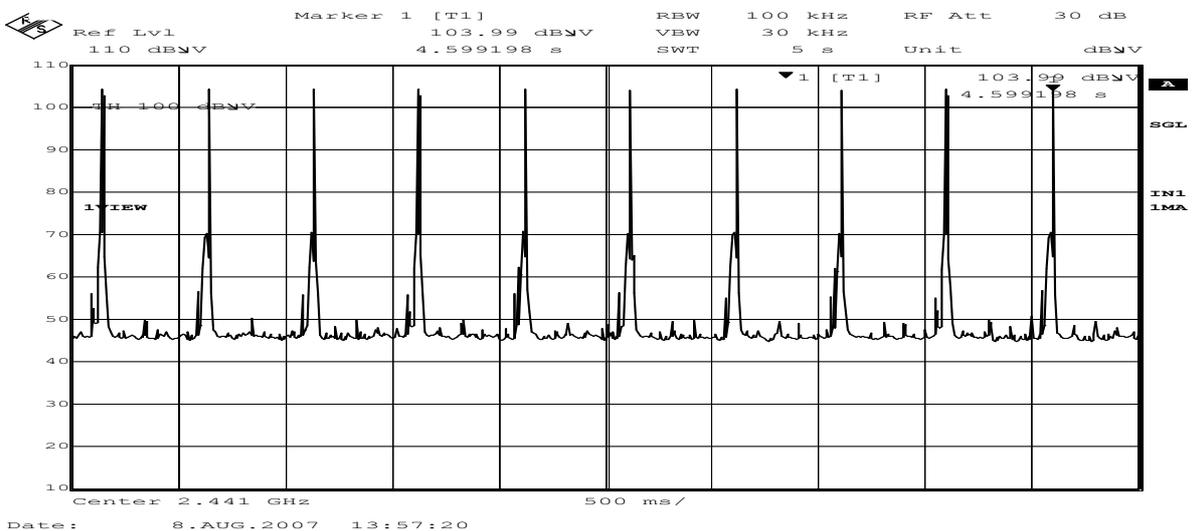
Count 1



Count 2



Count 3

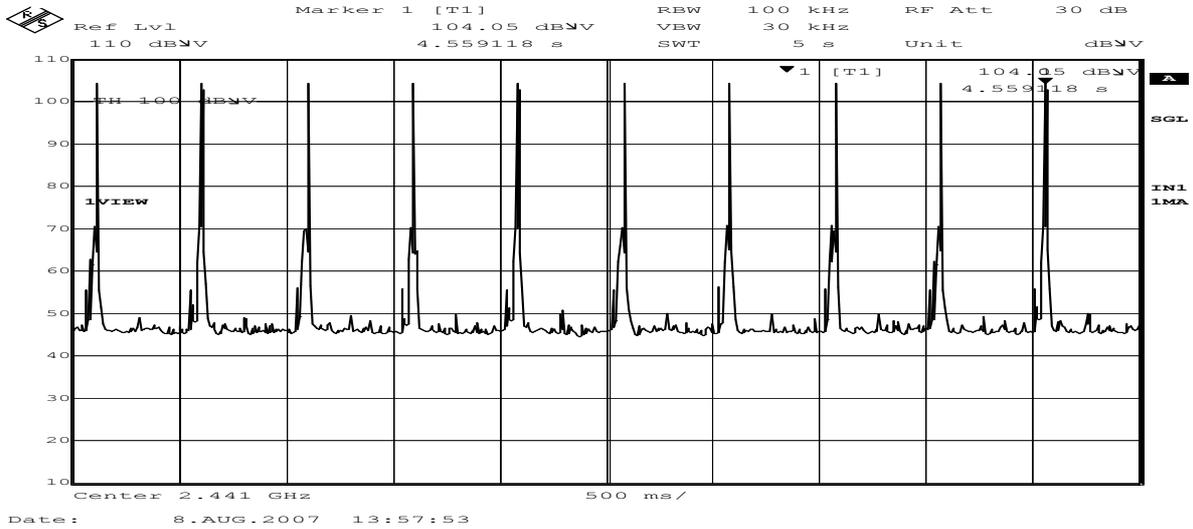


**Dwell Time: FCC 15.247(a)(1)(iii)**

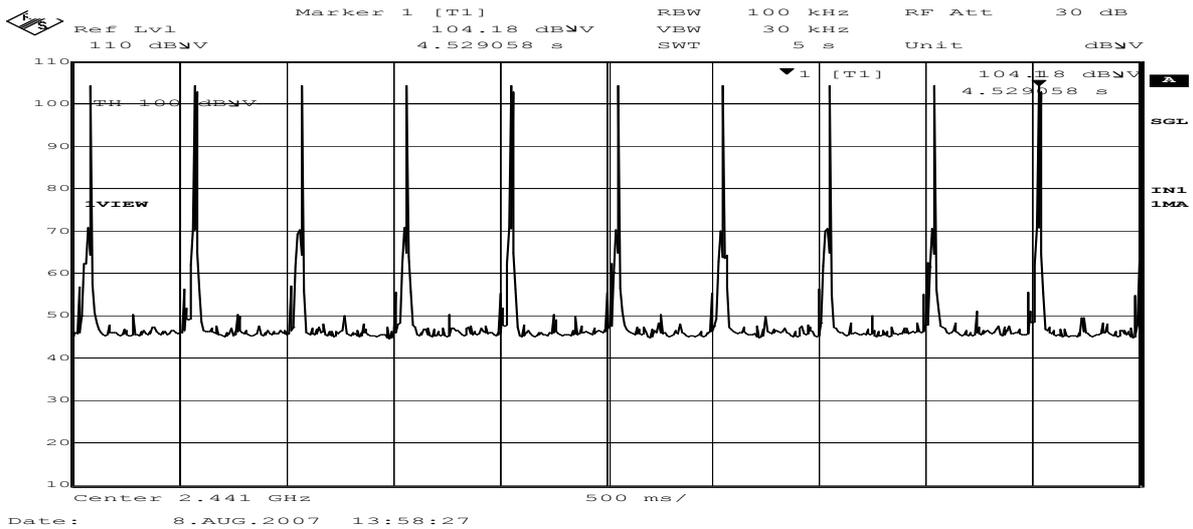
**COMPANY** : Sony Corporation  
**EQUIPMENT** : Portable Stereo Transmitter  
**MODEL NUMBER**: TMR-BT10A  
**SERIAL NUMBER**: 802  
**FCC ID** : AK8TMRBT10A  
**POWER** : DC3.7V

**UL Japan, Inc. Yamakita No.4 Shielded Room**  
**REPORT NO** : 27LE0042-YK-A  
**REGULATION** : Fcc Part15SubpartC 247(a)(1)(iii)  
**DATE** : 2007/08/08  
**TEMP./HUMI** : 24deg.C./62%  
**TEST MODE** : Transmitting  
**ENGINEER** : Tatsuya Arai

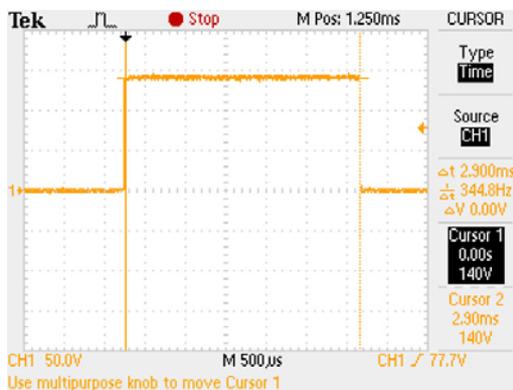
**Count 4**



**Count 5**



**Duty cycle(Hopping DHS)**



Average times of rising in 30 sec. of sweep = (61 + 61 + 61 + 60 + 61) / 5 = 60.8

Average times of rising in 1 sec. = 60.8 / 30s = 2.03

Average times of rising in 0.4x = 0.4 \* 79ch \* 2.03 = 64.15

Dwell time = 64.15 \* 2.92 = 187.32 [ms]

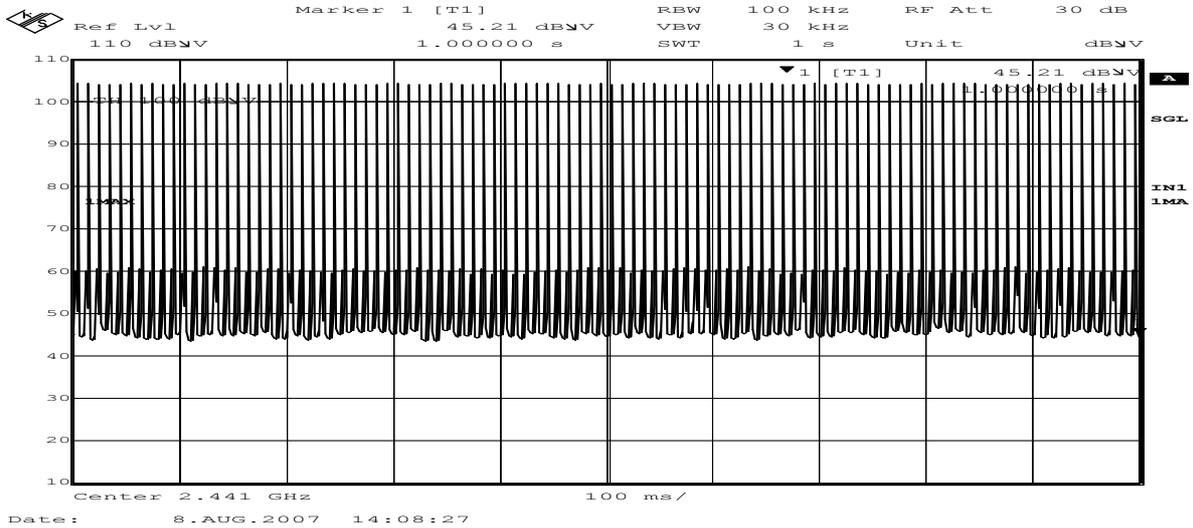
Limit : Dwell Time < 0.4[s]

Dwell Time: FCC 15.247(a)(1)(iii)

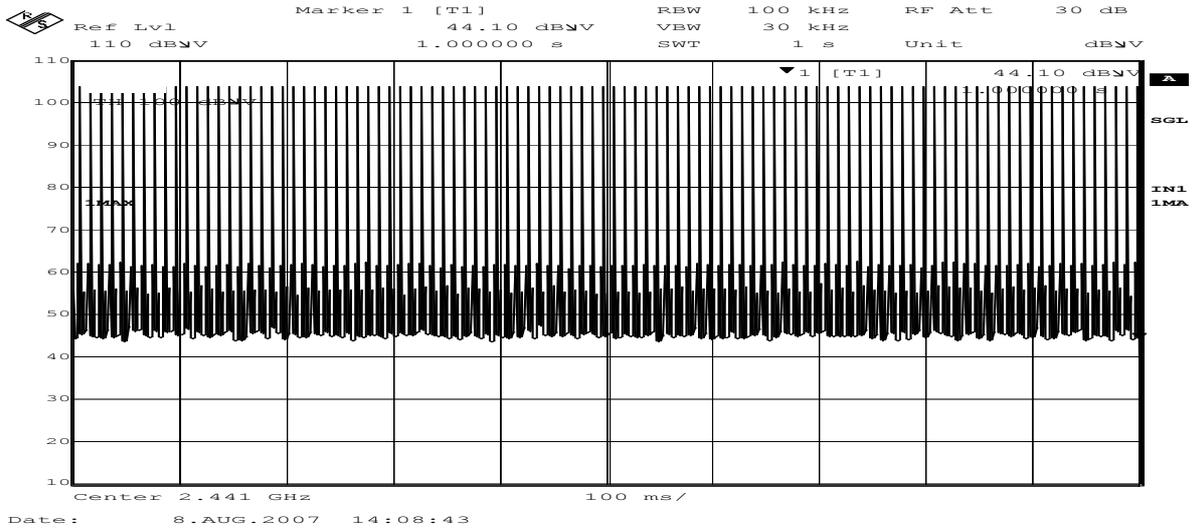
COMPANY : Sony Corporation  
EQUIPMENT : Portable Stereo Transmitter  
MODEL NUMBER: TMR-BT10A  
SERIAL NUMBER: 802  
FCC ID : AK8TMRBT10A  
POWER : DC3.7V

UL Japan, Inc. Yamakita No.4 Shielded Room  
REPORT NO : 27LE0042-YK-A  
REGULATION : Fcc Part15SubpartC 247(a)(1)(iii)  
DATE : 2007/08/08  
TEMP./HUMI : 24deg.C./62%  
TEST MODE : Transmitting  
ENGINEER : Tatsuya Arai

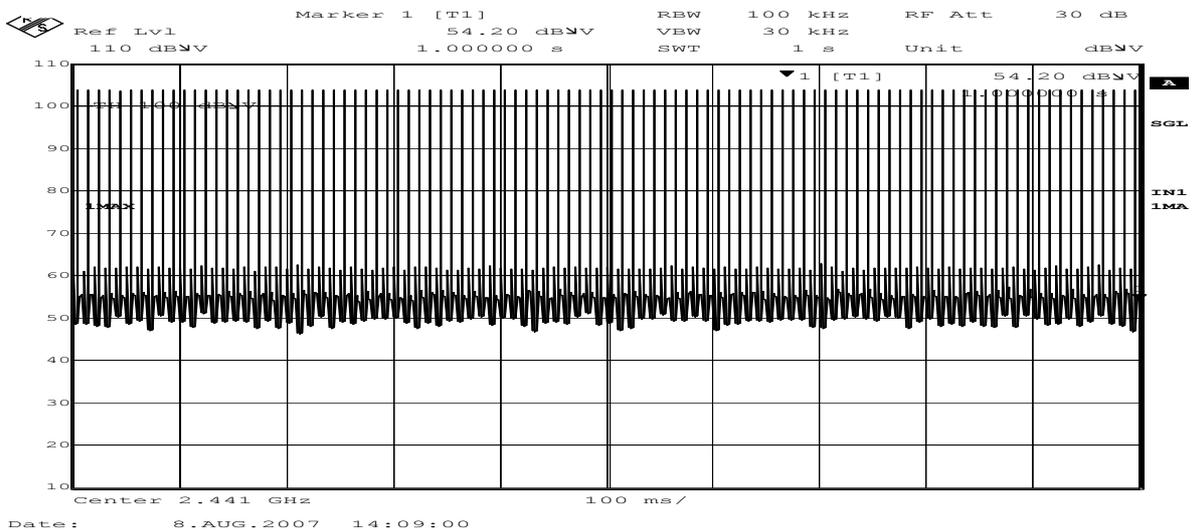
Inquiry:  
Count 1



Count 2



Count 3

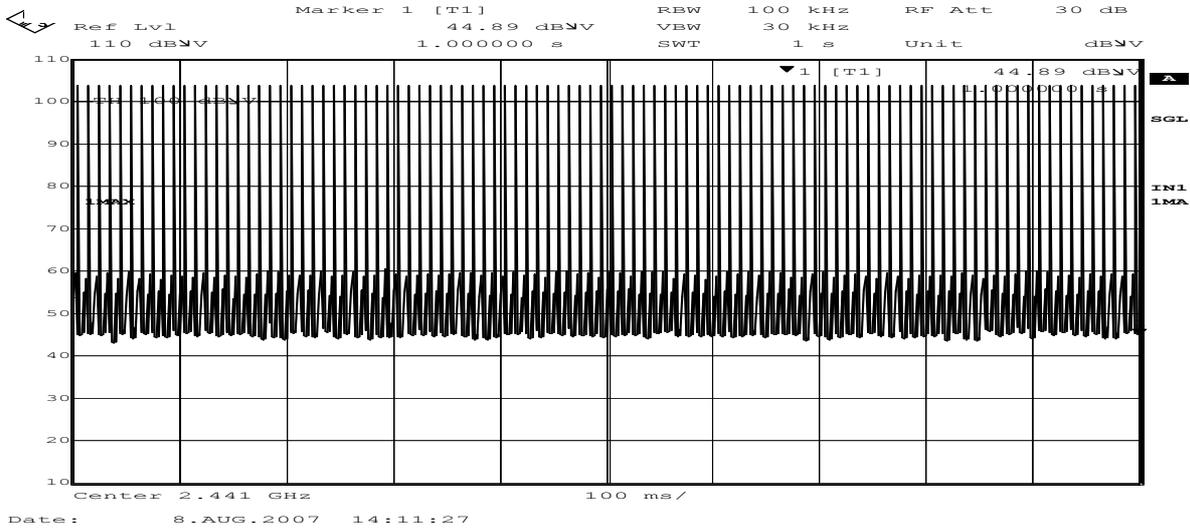


**Dwell Time: FCC 15.247(a)(1)(iii)**

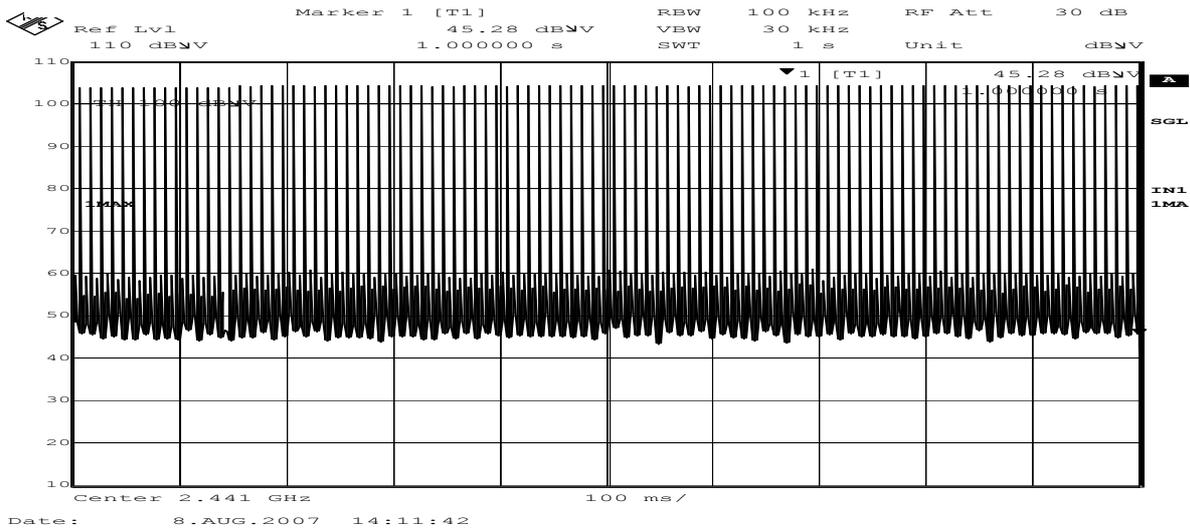
**COMPANY** : Sony Corporation  
**EQUIPMENT** : Portable Stereo Transmitter  
**MODEL NUMBER**: TMR-BT10A  
**SERIAL NUMBER**: 802  
**FCC ID** : AK8TMRBT10A  
**POWER** : DC3.7V

**UL Japan, Inc. Yamakita No.4 Shielded Room**  
**REPORT NO** : 27LE0042-YK-A  
**REGULATION** : Fcc Part15SubpartC 247(a)(1)(iii)  
**DATE** : 2007/08/08  
**TEMP./HUMI** : 24deg.C./62%  
**TEST MODE** : Transmitting  
**ENGINEER** : Tatsuya Arai

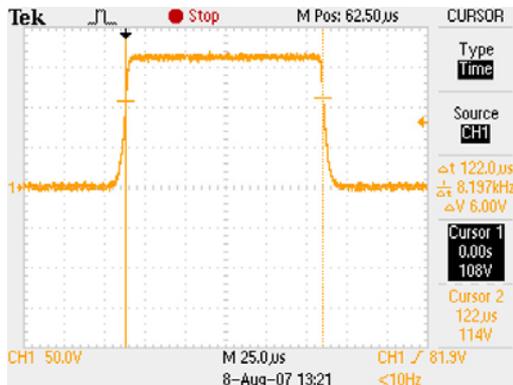
Count 4



Count 5



**Duty cycle(Inquiry)**



Average times of rising in 30 sec. of sweep =  $(100 + 100 + 100 + 100 + 100) / 5 = 100$   
 Average times of rising in 1 sec. =  $100 / 1s = 100.0$   
 Average times of rising in 0.4x =  $0.4 * 32ch * 100.0 = 1280.0$   
 Dwell time =  $1280.0 * 0.12 = 153.60 [ms]$   
 Limit : Dwell Time < 0.4[s]

# Maximum Peak Conducted Output Power

UL Japan, Inc.  
YAMAKITA No.4 Shielded Room

COMPANY : Sony Corporation  
EQUIPMENT : Portable Stereo Transmitter  
MODEL NUMBER: TMR-BT10A  
SERIAL NUMBER: 802  
FCC ID : AK8TMRBT10A  
POWER : DC3.7V  
TEST MODE : Transmitting

REPORT NO : 27LE0042-YK-A  
REGULATION: Fcc Part15SubpartC 247(b)(1)  
DATE : 2007/08/08  
TEMP./HUMI : 24deg.C/62%  
TEST MODE : Transmitting  
ENGINEER : Tatsuya Arai

CH	FREQ [GHz]	P/M Reading [dBm]	Cable Loss [dB]	Results [dBm]	Limit (125mW) [dBm]	MARGIN [dB]
Low	2402.00	-1.54	0.60	-0.94	20.96	21.90
Mid	2441.00	-2.00	0.60	-1.40	20.96	22.36
High	2480.00	-2.82	0.60	-2.22	20.96	23.18
Inquiry	-	-1.61	0.60	-1.01	20.96	21.97

Limit: 125mW=20.96dBm

P/M: Power Meter

CABLE LOSS:KCC-D7

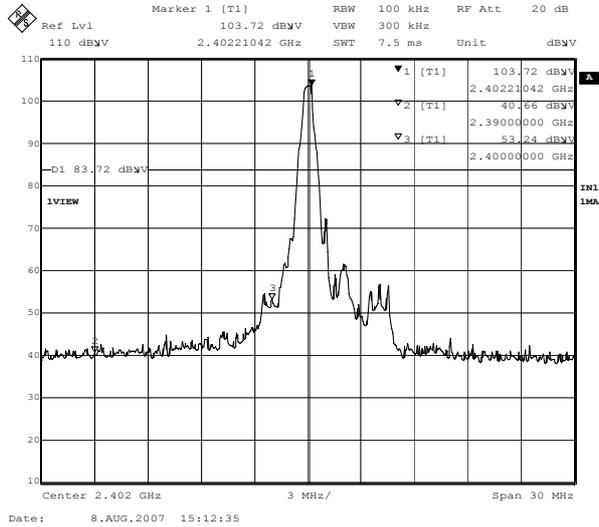
# Out of Band Emission(Antenna Terminal Conducted): FCC 15.247(d)

**COMPANY** : Sony Corporation  
**EQUIPMENT** : Portable Stereo Transmitter  
**MODEL NUMBER**: TMR-BT10A  
**SERIAL NUMBER**: 802  
**FCC ID** : AK8TMRBT10A  
**POWER** : DC3.7V

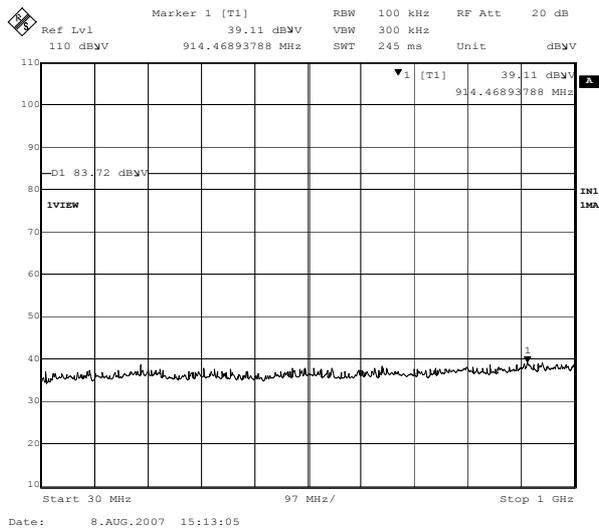
**UL Japan, Inc. Yamakita No.4 Shielded Room**  
**REPORT NO** : 27LE0042-YK-A  
**REGULATION** : Fcc Part15SubpartC 247(d)  
**DATE** : 2007/08/08  
**TEMP./HUMI** : 24deg.C./62%  
**TEST MODE** : Transmitting (Hopping off)  
**ENGINEER** : Tatsuya Arai

**[Transmitting]**  
**Ch:2402MHz**

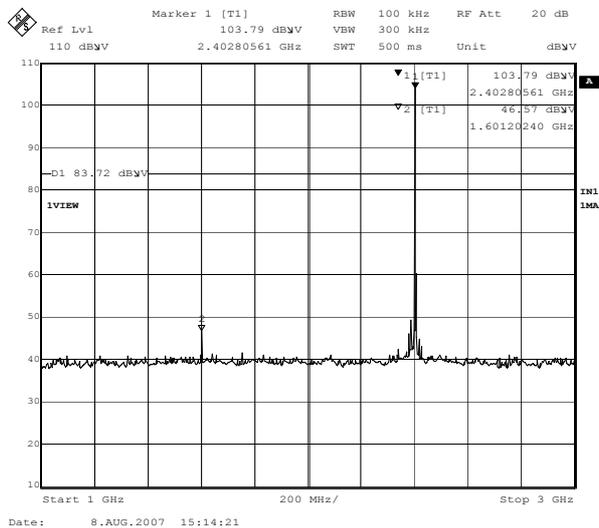
1.



2.



3.



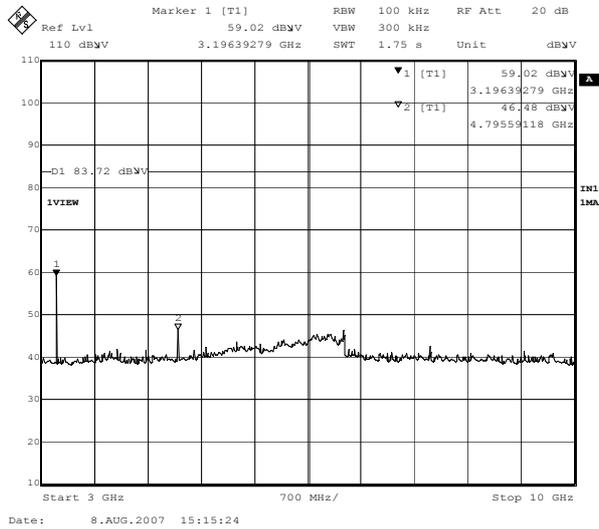
## Out of Band Emission(Antenna Terminal Conducted): FCC 15.247(d)

**COMPANY** : Sony Corporation  
**EQUIPMENT** : Portable Stereo Transmitter  
**MODEL NUMBER**: TMR-BT10A  
**SERIAL NUMBER**: 802  
**FCC ID** : AK8TMRBT10A  
**POWER** : DC3.7V

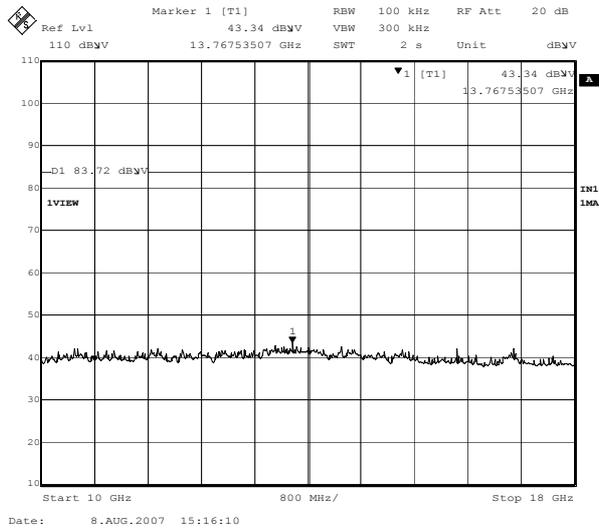
**UL Japan, Inc. Yamakita No.4 Shielded Room**  
**REPORT NO** : 27LE0042-YK-A  
**REGULATION** : Fcc Part15SubpartC 247(d)  
**DATE** : 2007/08/08  
**TEMP./HUMI** : 24deg.C./62%  
**TEST MODE** : Transmitting (Hopping off)  
**ENGINEER** : Tatsuya Arai

**[Transmitting]**  
**Ch:2402MHz**

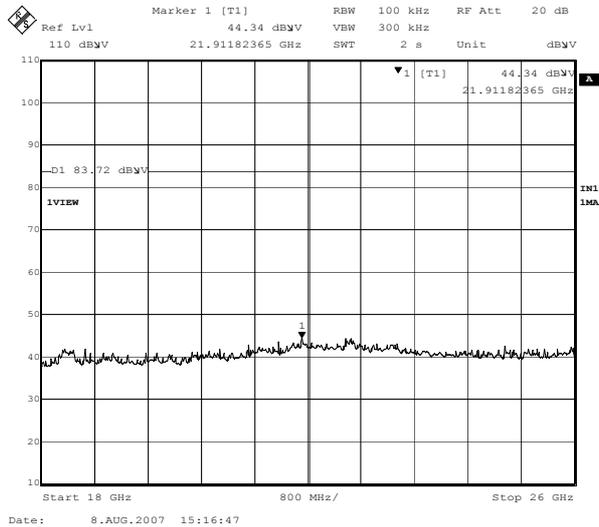
4.



5.



6.



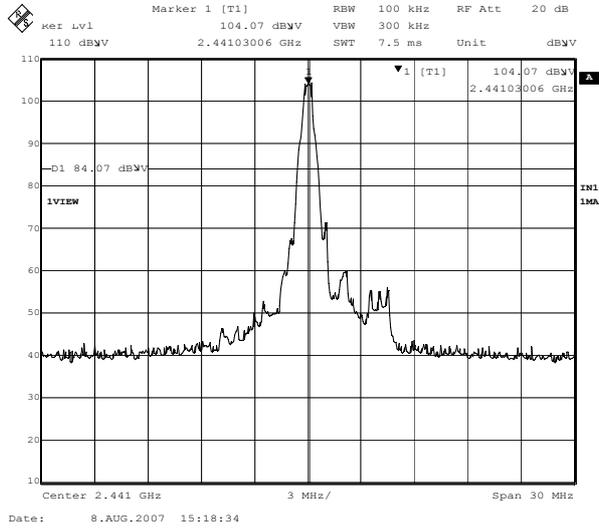
# Out of Band Emission(Antenna Terminal Conducted): FCC 15.247(d)

**COMPANY** : Sony Corporation  
**EQUIPMENT** : Portable Stereo Transmitter  
**MODEL NUMBER**: TMR-BT10A  
**SERIAL NUMBER**: 802  
**FCC ID** : AK8TMRBT10A  
**POWER** : DC3.7V

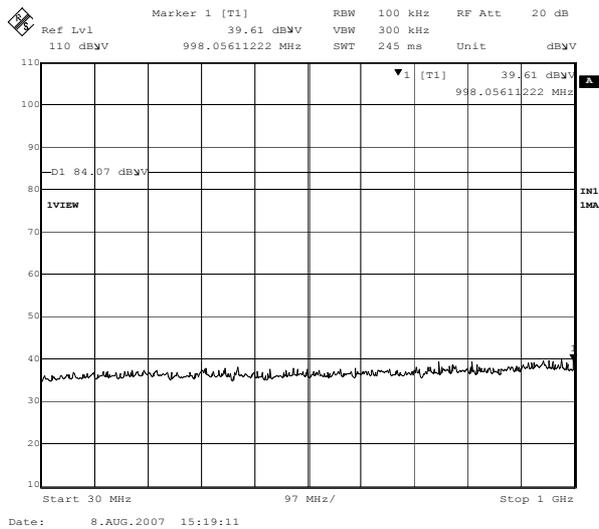
**UL Japan, Inc. Yamakita No.4 Shielded Room**  
**REPORT NO** : 27LE0042-YK-A  
**REGULATION** : Fcc Part15SubpartC 247(d)  
**DATE** : 2007/08/08  
**TEMP./HUMI** : 24deg.C./62%  
**TEST MODE** : Transmitting (Hopping off)  
**ENGINEER** : Tatsuya Arai

[Transmitting]  
Ch:2441MHz

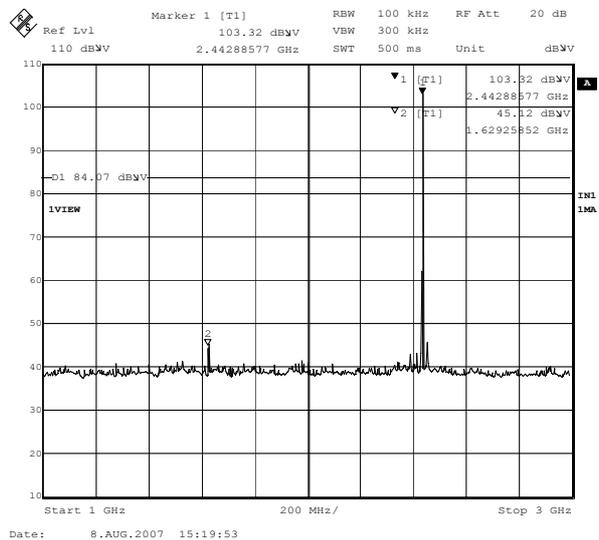
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3.



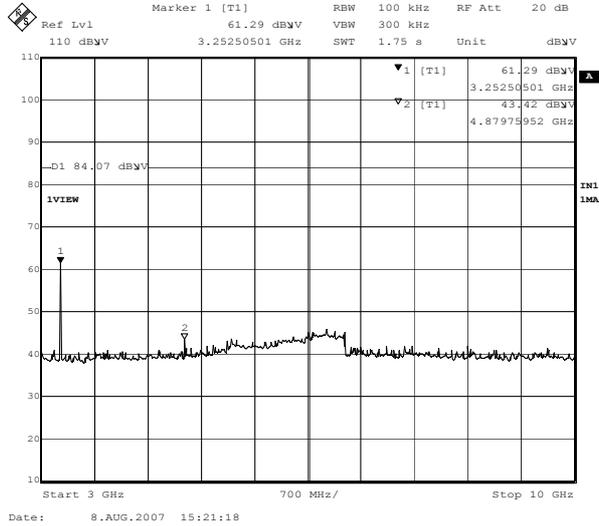
## Out of Band Emission(Antenna Terminal Conducted): FCC 15.247(d)

**COMPANY** : Sony Corporation  
**EQUIPMENT** : Portable Stereo Transmitter  
**MODEL NUMBER**: TMR-BT10A  
**SERIAL NUMBER**: 802  
**FCC ID** : AK8TMRBT10A  
**POWER** : DC3.7V

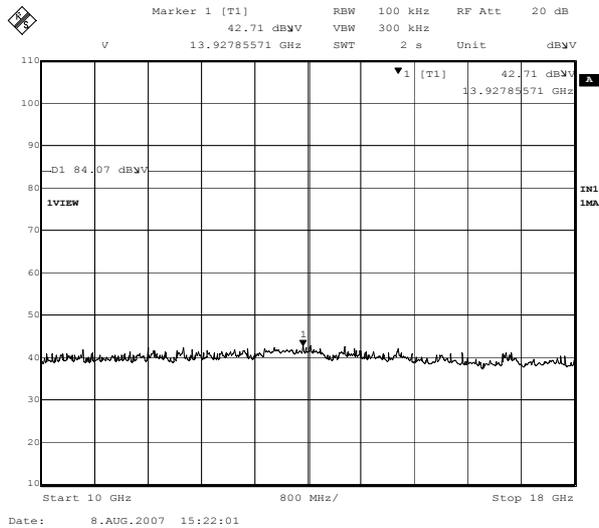
**UL Japan, Inc. Yamakita No.4 Shielded Room**  
**REPORT NO** : 27LE0042-YK-A  
**REGULATION** : Fcc Part15SubpartC 247(d)  
**DATE** : 2007/08/08  
**TEMP./HUMI** : 24deg.C./62%  
**TEST MODE** : Transmitting (Hopping off)  
**ENGINEER** : Tatsuya Arai

**[Transmitting]**  
**Ch:2441MHz**

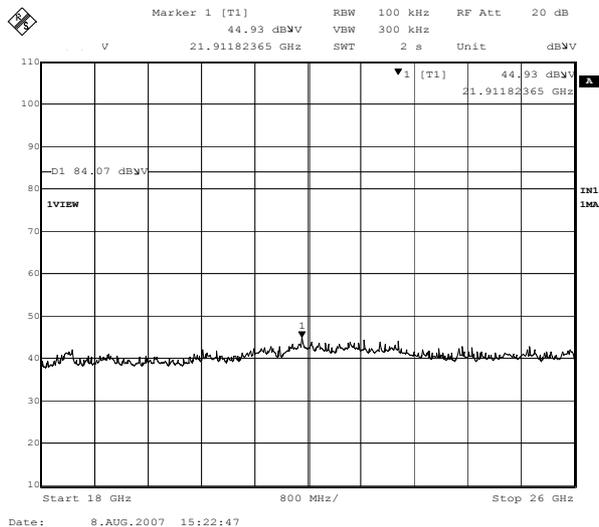
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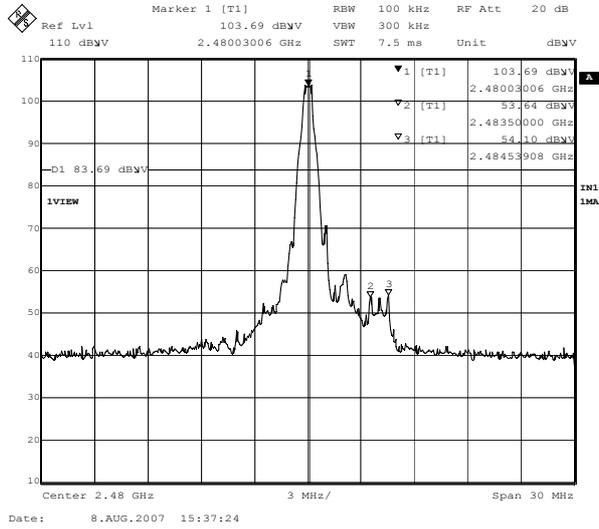
# Out of Band Emission(Antenna Terminal Conducted): FCC 15.247(d)

**COMPANY** : Sony Corporation  
**EQUIPMENT** : Portable Stereo Transmitter  
**MODEL NUMBER**: TMR-BT10A  
**SERIAL NUMBER**: 802  
**FCC ID** : AK8TMRBT10A  
**POWER** : DC3.7V

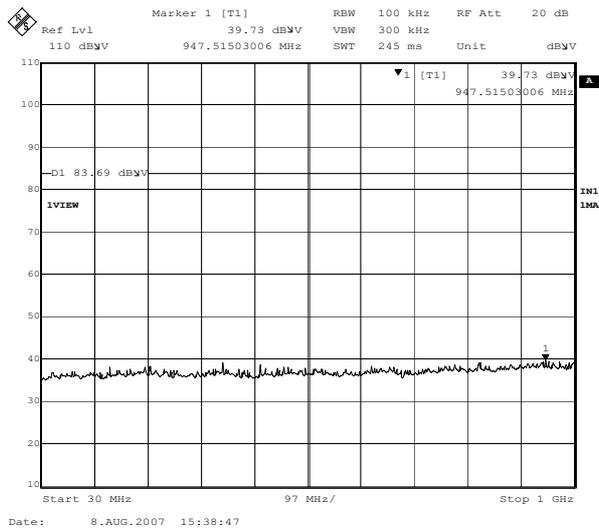
**UL Japan, Inc. Yamakita No.4 Shielded Room**  
**REPORT NO** : 27LE0042-YK-A  
**REGULATION** : Fcc Part15SubpartC 247(d)  
**DATE** : 2007/08/08  
**TEMP./HUMI** : 24deg.C./62%  
**TEST MODE** : Transmitting (Hopping off)  
**ENGINEER** : Tatsuya Arai

**[Transmitting]**  
**Ch11:2480MHz**

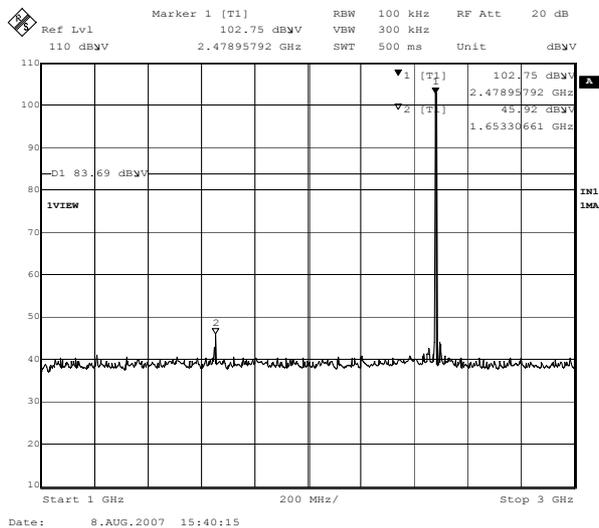
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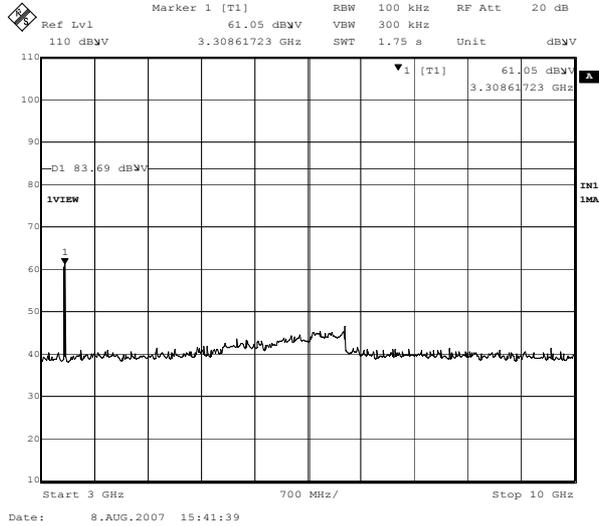
## Out of Band Emission(Antenna Terminal Conducted): FCC 15.247(d)

**COMPANY** : Sony Corporation  
**EQUIPMENT** : Portable Stereo Transmitter  
**MODEL NUMBER**: TMR-BT10A  
**SERIAL NUMBER**: 802  
**FCC ID** : AK8TMRBT10A  
**POWER** : DC3.7V

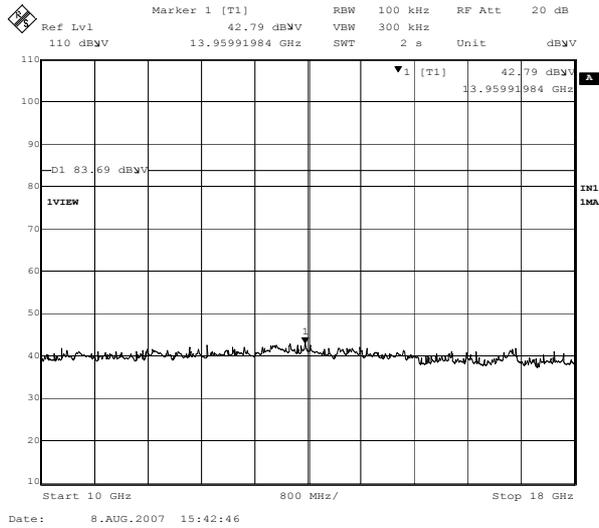
**UL Japan, Inc. Yamakita No.4 Shielded Room**  
**REPORT NO** : 27LE0042-YK-A  
**REGULATION** : Fcc Part15SubpartC 247(d)  
**DATE** : 2007/08/08  
**TEMP./HUMI** : 24deg.C./62%  
**TEST MODE** : Transmitting (Hopping off)  
**ENGINEER** : Tatsuya Arai

**[Transmitting]**  
**Ch:2480MHz**

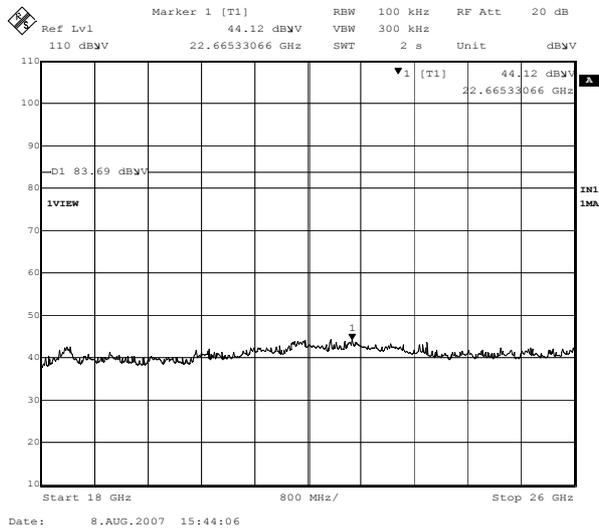
4.



5.



6.



# DATA OF RADIATION TEST

UL Japan, Inc.  
YAMAKITA No.1 ANECHOIC CHAMBER  
Report No. : 27LE0042-YK-A

Applicant : Sony Corporation  
Kind of Equipment : Portable Stereo Transmitter  
Model No. : TMR-BT10A  
Serial No. : -  
Power : DC3.7V  
Mode : Transmitting(2402MHz)  
Remarks : Hor:Y Ver:Y  
Date : 8/8/2007  
Test Distance : 3 m  
Temperature : 25 °C Engineer : Go Ishiwata  
Humidity : 54 %  
Regulation : FCC Part15C § 15.209

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER					HOR [dB μ V/m]	VER		HOR [dB]	VER
1.	318.23	BB	22.4	22.5	14.8	27.5	3.9	5.9	19.5	19.6	46.0	26.5	26.4

CALCULATION: READING + ANT. FACTOR + CABLE LOSS - AMP. GAIN + ATTEN.

■ ANTENNA: KBA-03 (BBA9106) 30-299.99MHz/KLA-03 (USLP9143) 300-1000MHz  
■ CABLE: KCC-30/31/32/34 ■ PREAMP: KAF-05 (8447D) ■ EMI RECEIVER: KTR-05 (ESCI)

# DATA OF RADIATION TEST

UL Japan, Inc.  
YAMAKITA No.1 ANECHOIC CHAMBER  
Report No. : 27LE0042-YK-A

Applicant : Sony Corporation  
Kind of Equipment : Portable Stereo Transmitter  
Model No. : TMR-BT10A  
Serial No. : -  
Power : DC3.7V  
Mode : Transmitting(2441MHz)  
Remarks : Hor:Y Ver:Y  
Date : 8/8/2007  
Test Distance : 3 m  
Temperature : 25 °C Engineer : Go Ishiwata  
Humidity : 54 %  
Regulation : FCC Part15C § 15.209

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
			HOR [dB μ V]	VER					HOR [dB μ V/m]	VER	HOR [dB]	VER		
1.	315.53	BB	22.7	23.1	14.7	27.5	3.9	5.9	19.7	20.1	46.0	26.3	25.9	

CALCULATION: READING + ANT. FACTOR + CABLE LOSS - AMP. GAIN + ATTEN.

■ ANTENNA: KBA-03 (BBA9106) 30-299.99MHz/KLA-03 (USLP9143) 300-1000MHz  
■ CABLE: KCC-30/31/32/34 ■ PREAMP: KAF-05 (8447D) ■ EMI RECEIVER: KTR-05 (ESCI)

# DATA OF RADIATION TEST

UL Japan, Inc.  
YAMAKITA No.1 ANECHOIC CHAMBER  
Report No. : 27LE0042-YK-A

Applicant : Sony Corporation  
Kind of Equipment : Portable Stereo Transmitter  
Model No. : TMR-BT10A  
Serial No. : -  
Power : DC3.7V  
Mode : Transmitting(2480MHz)  
Remarks : Hor:Y Ver:Y  
Date : 8/8/2007  
Test Distance : 3 m  
Temperature : 25 °C Engineer : Go Ishiwata  
Humidity : 54 %  
Regulation : FCC Part15C § 15.209

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
			HOR [dB μ V]	VER					HOR [dB μ V/m]	VER	HOR [dB]	VER		
1.	319.55	BB	22.5	22.8	14.8	27.6	3.9	5.9	19.5	19.8	46.0	26.5	26.2	

CALCULATION: READING + ANT. FACTOR + CABLE LOSS - AMP. GAIN + ATTEN.

■ ANTENNA: KBA-03 (BBA9106) 30-299.99MHz/KLA-03 (USLP9143) 300-1000MHz  
■ CABLE: KCC-30/31/32/34 ■ PREAMP: KAF-05 (8447D) ■ EMI RECEIVER: KTR-05 (ESCI)

# DATA OF RADIATION TEST

UL Japan, Inc.  
YAMAKITA No.1 ANECHOIC CHAMBER  
Report No. : 27LE0042-YK-A

Applicant : Sony Corporation  
Kind of Equipment : Portable Stereo Transmitter  
Model No. : TMR-BT10A  
Serial No. : -  
Power : DC3.7V  
Mode : Transmitting (2402MHz)  
Remarks : Hor:Y Ver:Z PK (RBW:1MHz VBW:1MHz)  
Date : 8/10/2007  
Test Distance : 3 m  
Temperature : 23 °C Engineer : Go Ishiwata  
Humidity : 48 %  
Regulation : FCC Part15C § 15.209 (PK Detection)

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]		HOR [dB]	VER [dB]
1.	1602.00	BB	56.2	57.0	26.0	37.4	4.9	0.0	49.7	50.5	74.0	24.3	23.5
2.	2390.00	BB	42.3	44.2	27.3	37.5	5.0	0.0	37.1	39.0	74.0	36.9	35.0
3.	4804.00	BB	46.0	43.4	31.5	37.8	5.7	0.0	45.4	42.8	74.0	28.6	31.2
4.	7206.00	BB	42.0	41.5	35.8	37.2	7.6	0.0	48.2	47.7	74.0	25.8	26.3
5.	9608.00	BB	45.2	45.0	38.2	37.4	7.7	0.0	53.7	53.5	74.0	20.3	20.5

CALCULATION: READING + ANT. FACTOR + CABLE LOSS - AMP. GAIN + ATTEN.

■ ANTENNA : KHA-02 (BBHA9120D)

■ CABLE : KCC-D3/D7 ■ PREAMP : KAF-02 (8449B) ■ SPECTRUMANALYZER : KSA-04 (R3271A)

Page :

# DATA OF RADIATION TEST

UL Japan, Inc.  
YAMAKITA No.1 ANECHOIC CHAMBER  
Report No. : 27LE0042-YK-A

Applicant : Sony Corporation  
 Kind of Equipment : Portable Stereo Transmitter  
 Model No. : TMR-BT10A  
 Serial No. : -  
 Power : DC3.7V  
 Mode : Transmitting (2402MHz)  
 Remarks : Hor:Y Ver:Z AV (RBW:1MHz VBW:10Hz)  
 Date : 8/10/2007  
 Test Distance : 3 m  
 Temperature : 23 °C Engineer : Go Ishiwata  
 Humidity : 48 %  
 Regulation : FCC Part15C § 15.209 (AV Detection)

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER					HOR [dB μ V/m]	VER		HOR [dB]	VER
1.	1602.00	BB	55.1	55.2	26.0	37.4	4.9	0.0	48.6	48.7	54.0	5.4	5.3
2.	2390.00	BB	33.4	33.5	27.3	37.5	5.0	0.0	28.2	28.3	54.0	25.8	25.7
3.	4804.00	BB	32.6	32.1	31.5	37.8	5.7	0.0	32.0	31.5	54.0	22.0	22.5
4.	7206.00	BB	32.5	32.1	35.8	37.2	7.6	0.0	38.7	38.3	54.0	15.3	15.7
5.	9608.00	BB	35.5	35.1	38.2	37.4	7.7	0.0	44.0	43.6	54.0	10.0	10.4

CALCULATION: READING + ANT. FACTOR + CABLE LOSS - AMP. GAIN + ATTEN.

■ ANTENNA : KHA-02 (BBHA9120D)  
 ■ CABLE : KCC-D3/D7 ■ PREAMP : KAF-02 (8449B) ■ SPECTRUMANALYZER : KSA-04 (R3271A)

# DATA OF RADIATION TEST

UL Japan, Inc.  
YAMAKITA No.1 ANECHOIC CHAMBER  
Report No. : 27LE0042-YK-A

Applicant : Sony Corporation  
 Kind of Equipment : Portable Stereo Transmitter  
 Model No. : TMR-BT10A  
 Serial No. : -  
 Power : DC3.7V  
 Mode : Transmitting(2441MHz)  
 Remarks : Hor:Y Ver:Z PK(RBW:1MHz VBW:1MHz)  
 Date : 8/10/2007  
 Test Distance : 3 m  
 Temperature : 23 °C Engineer : Go Ishiwata  
 Humidity : 48 %  
 Regulation : FCC Part15C § 15.209(PK Detection)

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER					HOR [dB μ V/m]	VER		HOR [dB]	VER
1.	1628.01	BB	55.9	56.3	26.0	37.4	4.9	0.0	49.4	49.8	74.0	24.6	24.2
2.	4882.00	BB	45.7	45.5	31.7	37.7	5.8	0.0	45.5	45.3	74.0	28.5	28.7
3.	7323.00	BB	41.9	42.1	35.9	37.6	7.7	0.0	47.9	48.1	74.0	26.1	25.9
4.	9764.00	BB	41.8	41.9	38.2	37.1	7.7	0.0	50.6	50.7	74.0	23.4	23.3
5.	12205.00	BB	45.8	45.6	39.0	36.4	9.0	0.0	57.4	57.2	74.0	16.6	16.8

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.

■ ANTENNA : KHA-02 (BBHA9120D)  
 ■ CABLE : KCC-D3/D7 ■ PREAMP : KAF-02 (8449B) ■ SPECTRUMANALYZER : KSA-04 (R3271A)

# DATA OF RADIATION TEST

UL Japan, Inc.  
YAMAKITA No.1 ANECHOIC CHAMBER  
Report No. : 27LE0042-YK-A

Applicant : Sony Corporation  
Kind of Equipment : Portable Stereo Transmitter  
Model No. : TMR-BT10A  
Serial No. : -  
Power : DC3.7V  
Mode : Transmitting(2441MHz)  
Remarks : Hor:Y Ver:Z AV(RBW:1MHz VBW:10Hz)  
Date : 8/10/2007  
Test Distance : 3 m  
Temperature : 23 °C Engineer : Go Ishiwata  
Humidity : 48 %  
Regulation : FCC Part15C § 15.209(AV Detection)

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]		HOR [dB]	VER [dB]
1.	1628.01	BB	54.1	54.6	26.0	37.4	4.9	0.0	47.6	48.1	54.0	6.4	5.9
2.	4882.00	BB	33.1	32.7	31.7	37.7	5.8	0.0	32.9	32.5	54.0	21.1	21.5
3.	7323.00	BB	32.8	32.5	35.9	37.6	7.7	0.0	38.8	38.5	54.0	15.2	15.5
4.	9764.00	BB	33.9	33.7	38.2	37.1	7.7	0.0	42.7	42.5	54.0	11.3	11.5
5.	12205.00	BB	34.9	34.5	39.0	36.4	9.0	0.0	46.5	46.1	54.0	7.5	7.9

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.

■ ANTENNA : KHA-02 (BBHA9120D)

■ CABLE : KCC-D3/D7 ■ PREAMP : KAF-02 (8449B) ■ SPECTRUMANALYZER : KSA-04 (R3271A)

# DATA OF RADIATION TEST

UL Japan, Inc.  
YAMAKITA No.1 ANECHOIC CHAMBER  
Report No. : 27LE0042-YK-A

Applicant : Sony Corporation  
 Kind of Equipment : Portable Stereo Transmitter  
 Model No. : TMR-BT10A  
 Serial No. : -  
 Power : DC3.7V  
 Mode : Transmitting(2480MHz)  
 Remarks : Hor:Y Ver:Z PK(RBW:1MHz VBW:1MHz)  
 Date : 8/10/2007  
 Test Distance : 3 m  
 Temperature : 23 °C Engineer : Go Ishiwata  
 Humidity : 48 %  
 Regulation : FCC Part15C § 15.209(PK Detection)

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER					HOR [dB μ V/m]	VER		HOR [dB]	VER
1.	1654.01	BB	54.2	56.5	26.1	37.4	4.9	0.0	47.8	50.1	74.0	26.2	23.9
2.	2483.50	BB	54.7	52.1	27.4	37.6	5.1	0.0	49.6	47.0	74.0	24.4	27.0
3.	4960.00	BB	45.3	45.9	31.8	37.6	5.8	0.0	45.3	45.9	74.0	28.7	28.1
4.	7440.00	BB	42.3	42.1	36.1	38.0	7.9	0.0	48.3	48.1	74.0	25.7	25.9
5.	9760.00	BB	45.5	45.2	38.2	37.1	7.7	0.0	54.3	54.0	74.0	19.7	20.0

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.

■ ANTENNA : KHA-02 (BBHA9120D)  
 ■ CABLE : KCC-D3/D7 ■ PREAMP : KAF-02 (8449B) ■ SPECTRUMANALYZER : KSA-04 (R3271A)

# DATA OF RADIATION TEST

UL Japan, Inc.  
YAMAKITA No.1 ANECHOIC CHAMBER  
Report No. : 27LE0042-YK-A

Applicant : Sony Corporation  
 Kind of Equipment : Portable Stereo Transmitter  
 Model No. : TMR-BT10A  
 Serial No. : -  
 Power : DC3.7V  
 Mode : Transmitting (2480MHz)  
 Remarks : Hor:Y Ver:Z AV (RBW:1MHz VBW:10Hz)  
 Date : 8/10/2007  
 Test Distance : 3 m  
 Temperature : 23 °C Engineer : Go Ishiwata  
 Humidity : 48 %  
 Regulation : FCC Part15C § 15.209 (AV Detection)

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER					HOR [dB μ V/m]	VER		HOR [dB]	VER
1.	1654.01	BB	53.3	54.4	26.1	37.4	4.9	0.0	46.9	48.0	54.0	7.1	6.0
2.	2483.50	BB	44.3	43.2	27.4	37.6	5.1	0.0	39.2	38.1	54.0	14.8	15.9
3.	4960.00	BB	33.0	33.0	31.8	37.6	5.8	0.0	33.0	33.0	54.0	21.0	21.0
4.	7440.00	BB	32.9	33.1	36.1	38.0	7.9	0.0	38.9	39.1	54.0	15.1	14.9
5.	9760.00	BB	35.9	35.7	38.2	37.1	7.7	0.0	44.7	44.5	54.0	9.3	9.5

CALCULATION: READING + ANT. FACTOR + CABLE LOSS - AMP. GAIN + ATTEN.

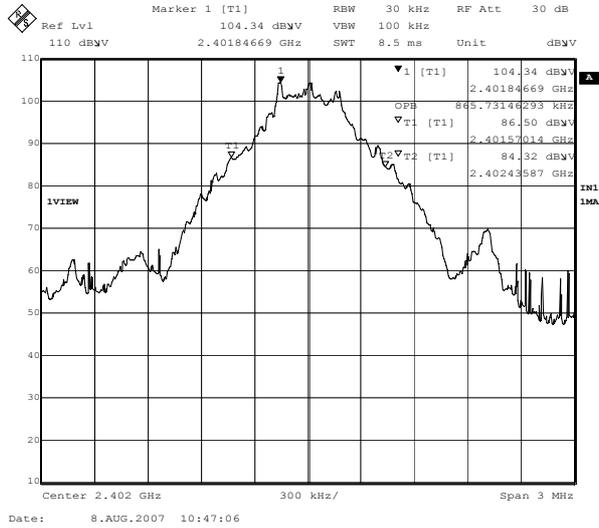
■ ANTENNA : KHA-02 (BBHA9120D)  
 ■ CABLE : KCC-D3/D7 ■ PREAMP : KAF-02 (8449B) ■ SPECTRUMANALYZER : KSA-04 (R3271A)

## Occupied Bandwidth(99%)

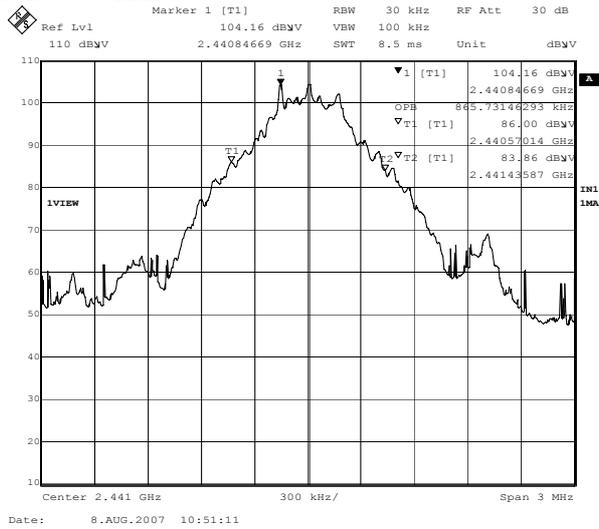
**COMPANY** : Sony Corporation  
**EQUIPMENT** : Portable Stereo Transmitter  
**MODEL NUMBER**: TMR-BT10A  
**SERIAL NUMBER**: 802  
**FCC ID** : AK8TMRBT10A  
**POWER** : DC3.7V

**UL Japan, Inc. Yamakita No.4 Shielded Room**  
**REPORT NO** : 27LE0042-YK-A  
**REGULATION** : RSS-210  
**DATE** : 2007/08/08  
**TEMP/HUMI** : 24deg.C./62%  
**TEST MODE** : Transmitting  
**ENGINEER** : Tatsuya Arai

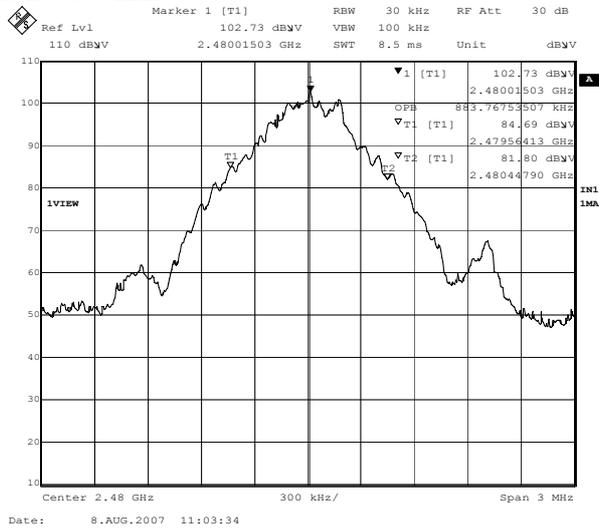
**1. ch : 2402MHz/Occupied Bandwidth:865.73kHz**



**2. ch : 2437MHz/Occupied Bandwidth:865.73kHz**



**3. ch : 2462MHz/Occupied Bandwidth:863.77kHz**





### APPENDIX 3 Test Instruments

#### EMI test equipment

Control No.	Instrument	Manufacturer	Model No	Test Item	Calibration Date * Interval(month)
KAF-02	Pre Amplifier	Hewlett Packard	8449B	RE	2007/04/24 * 12
KHA-01	Horn Antenna	A.H.Systems	SAS-200/571	RE	2007/08/14 * 12
KHA-03	Horn Antenna	EMCO	3160-09	RE	2007/04/14 * 12
KCC-D3/D7	Coaxial Cable	Rosenberger/Advantest	2201/JUN-08-01-061	RE	2007/04/11 * 12
YA-RE	Radiated emission(software)	UL Japan	RE(Ver.1.5)	RE	-
KAEC-01	Anechoic Chamber	JSE	Semi 3m	RE	2007/08/26 * 12
KAF-05	Pre Amplifier	Agilent	8447D	RE	2007/04/13 * 12
KAT6-01	Attenuator	INMET	18N-6dB	RE	2007/03/28 * 12
KBA-03	Biconical Antenna	Schwarzbeck	BBA9106	RE	2007/01/06 * 12
KCC-30/31/32 /34/KRM-03	Coaxial Cable/RF Relay Matrix	Fujikura/Suhner/TSJ	5D-2W/S04272B/RFM-E421	RE	2006/11/27 * 12
KLA-03	Logperiodic Antenna	Schwarzbeck	USLP9143	RE	2007/01/06 * 12
KOS-02	Humidity Indicator	Custom	CTH-190	RE	2006/07/10 * 24
KSA-04	Spectrum Analyzer	Advantest	R3271A	RE	2006/09/05 * 12
KTR-01	Test Receiver	Rohde & Schwarz	ESI40	AT 1,2,3,4,6	2007/04/12 * 12
KTR-05	Test Receiver	Rohde & Schwarz	ESCI	RE	2007/06/26 * 12
KJM-01	Measure	TAJIMA	GL19-55	RE	-
KAF-02	Pre Amplifier	Hewlett Packard	8449B	AT 4	2007/04/24 * 12
KPM-05	Power meter	Agilent	E4417A	AT 5	2007/04/03 * 12
KPSS-01	Power sensor	Agilent	E9327A	AT 5	2007/03/13 * 12
KCC-D7	Coaxial Cable	Advantest	A01002	AT all	2007/04/11 * 12
KDT-01	Coaxial Crystal Detector	Agilent	8473C	AT 4	Pre Check
KOSC-01	Oscilloscope	Tektronix	TDS-2022B	AT 4	2007/05/15 * 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 :

- RE: Out of Band Emission (Radiated)
- AT: Antenna terminal conducted test
  - 1: Carrier Frequency Separation
  - 2: 20dB Bandwidth
  - 3: Number of Hopping Frequency
  - 4: Dwell time
  - 5: Maximum Peak Output Power
  - 6: Out of Band Emission (Conducted)

\*Some calibrations were performed after the tested dates, however those EMI test equipment have been controlled by means of an unbroken chains of calibrations.