

# DATA OF NUMBER OF HOPPING FREQUENCY

A-Pex International Co., Ltd.  
EMC HEAD OFFICE DIVISION No.1 SEMI ANECHOIC CHAMBER

COMPANY	: Sony Corporation	REPORT NO	: 23BE0019-HO - 9
EQUIPMENT	: Digital Printing System	REGULATION	: Fcc Part15 Subpart C 15.247(a)(1)(iii)
MODEL	: DKC-C200X	TEST DISTANCE	: -
S/N	: 59810048	DATE	: 01/10/2003
FCC ID	: AK8DKCC200X	TEMPERATURE	: 19°C
IC Number	: 409B-DKCC200X	HUMIDITY	: 31%
POWER	: AC120V/60Hz		
MODE	: Tx (Hopping on) /Inquiry		

  
 Engineer : Hiroka Umeyama

**PK DETECT(S/A : RBW 300kHz ,VBW 1MHz, sweep time AUTO )**

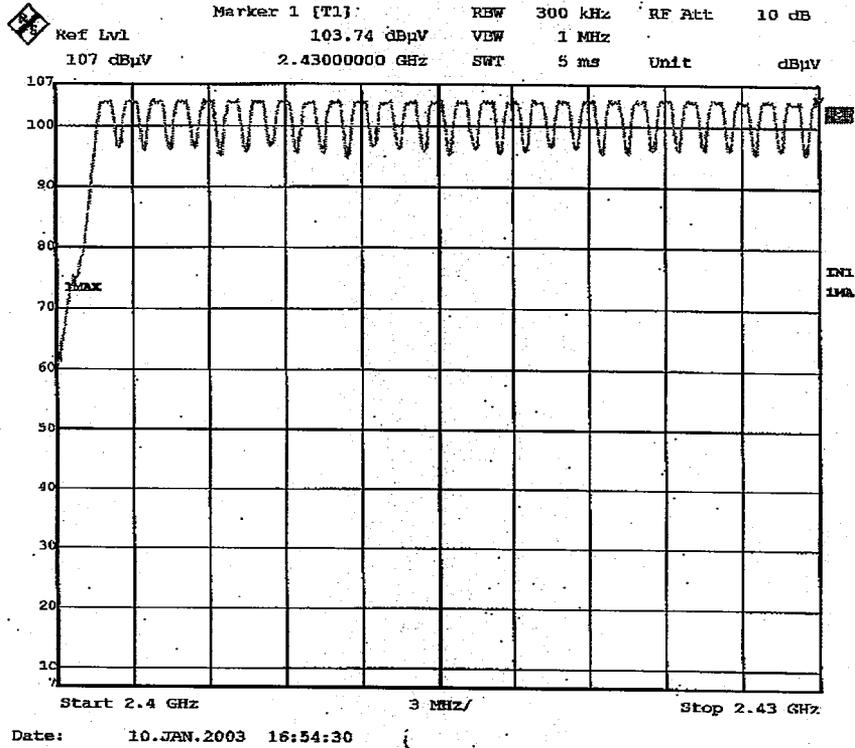
Mode	Number of channel	Limit
	[time]	[time]
Tx(Hoppng on)	79	≥ 15

**PK DETECT(S/A : RBW 300kHz ,VBW 1MHz, sweep time AUTO )**

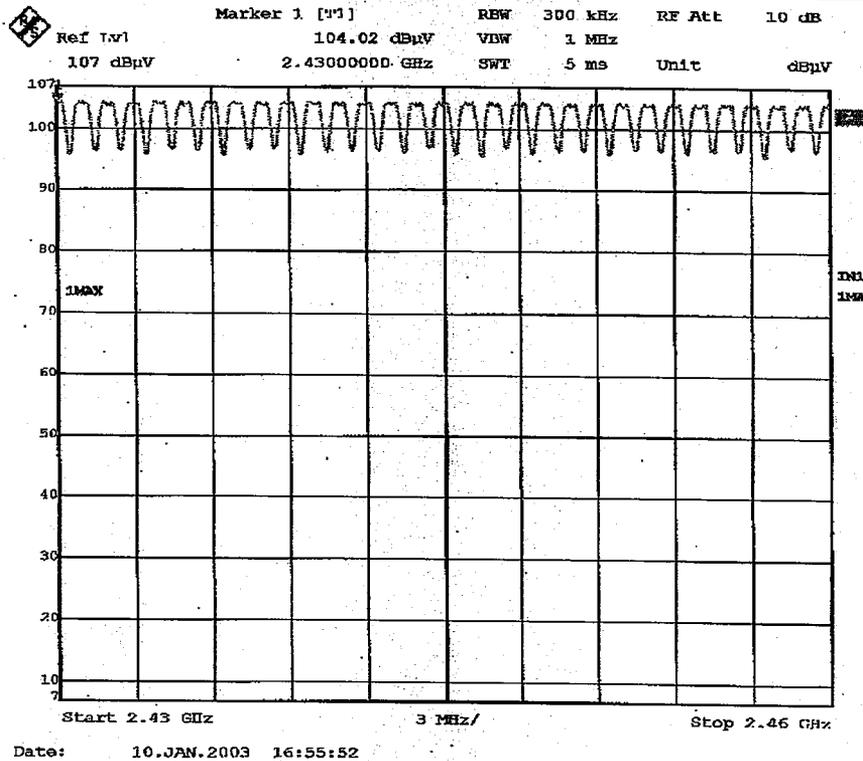
Mode	Number of channel	Limit
	[time]	[time]
Inquiry	32	≥ 15

Test report No : 23BE0019-HO-9  
FCC ID : AK8DKCC200X  
IC Number : 409B-DKCC200X

**Number of Hopping Frequency :Tx(Hopping on)2400-2430MHz:DKC-C200X**

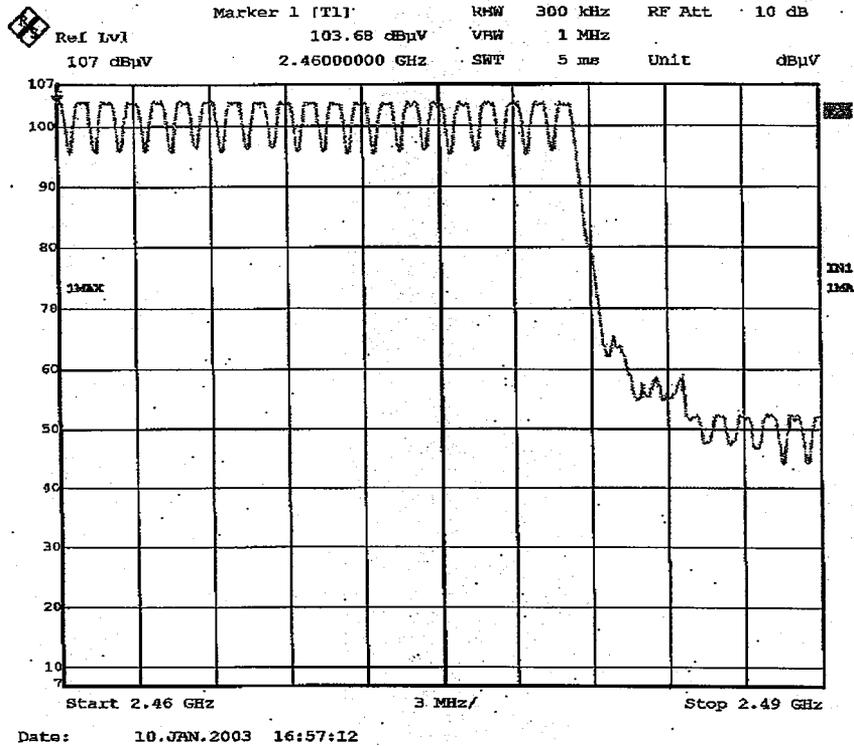


**Number of Hopping Frequency :Tx(Hopping on)2430-2460MHz:DKC-C200X**

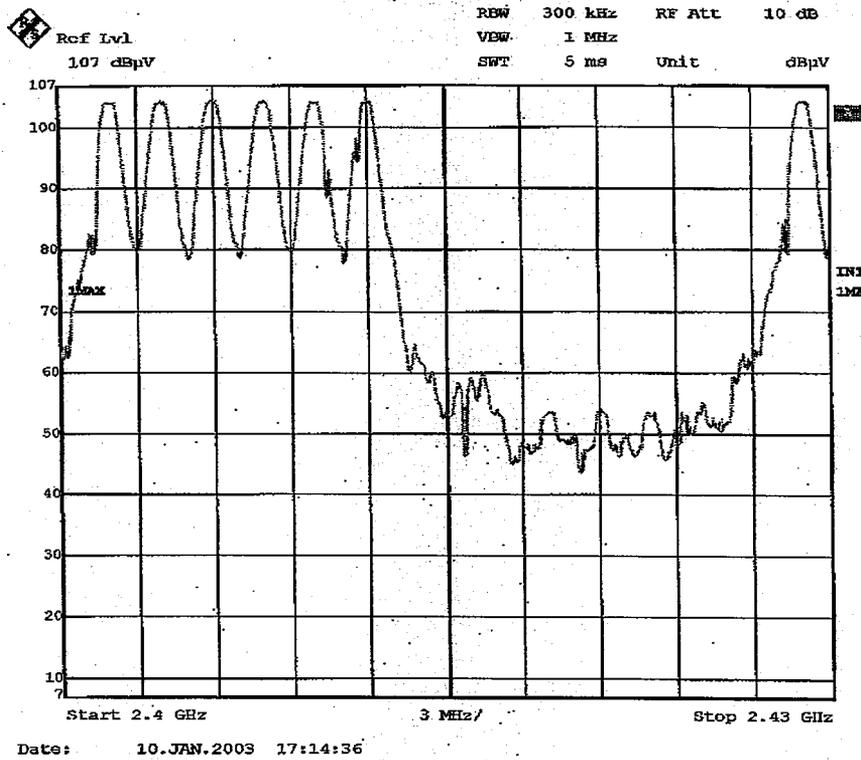


Test report No : 23BE0019-HO-9  
FCC ID : AK8DKCC200X  
IC Number : 409B-DKCC200X

**Number of Hopping Frequency :Tx(Hopping on)2460-2490MHz:DKC-C200X**

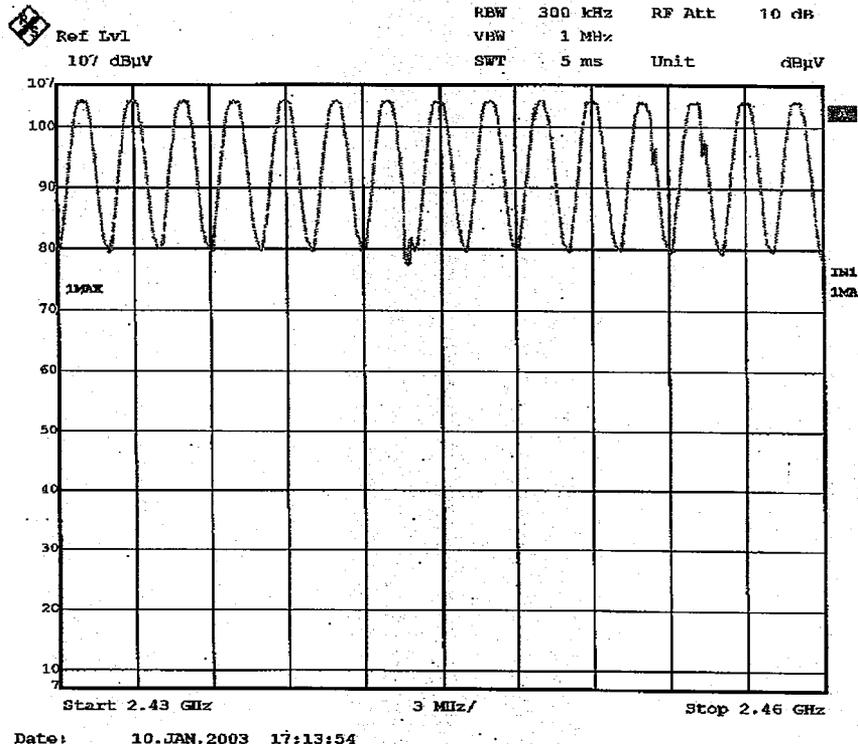


**Number of Hopping Frequency :Inquiry2400-2430MHz:DKC-C200X**

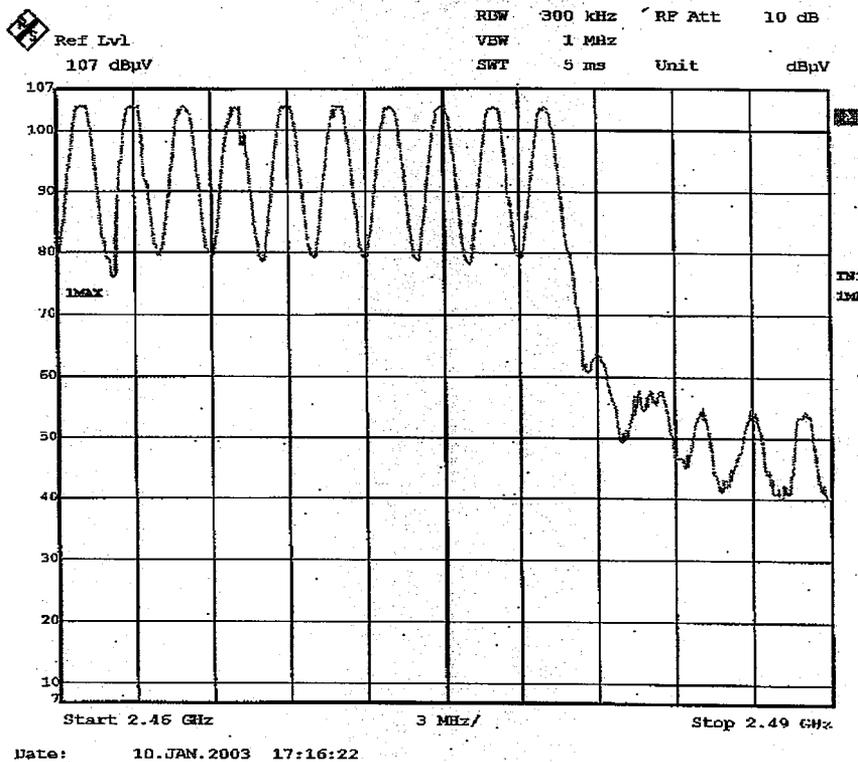


Test report No : 23BE0019-HO-9  
FCC ID : AK8DKCC200X  
IC Number : 409B-DKCC200X

**Number of Hopping Frequency :Inquiry2430-2460MHz:DKC-C200X**



**Number of Hopping Frequency :Inquiry2460-2490MHz:DKC-C200X**



# DATA OF DWELL TIME

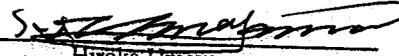
A-Pex International Co., Ltd.

EMC HEAD OFFICE DIVISION No.1 SEMI ANECHOIC CHAMBER

COMPANY : Sony Corporation  
 EQUIPMENT : Digital Printing System  
 MODEL : DKC-C200X  
 S/N : 59810048  
 FCC ID : AK8DKCC200X  
 IC Number : 409B-DKCC200X  
 POWER : AC120V/60Hz  
 MODE : Tx (Hopping off) /Inquiry

REPORT NO : 23BE0019-HO-9  
 REGULATION : Fcc Part15 Subpart C 15.247(a)(1)(iii)  
 TEST DISTANCE : -  
 DATE : 01/10/2003  
 TEMPERATURE : 19°C  
 HUMIDITY : 31%

Engineer :

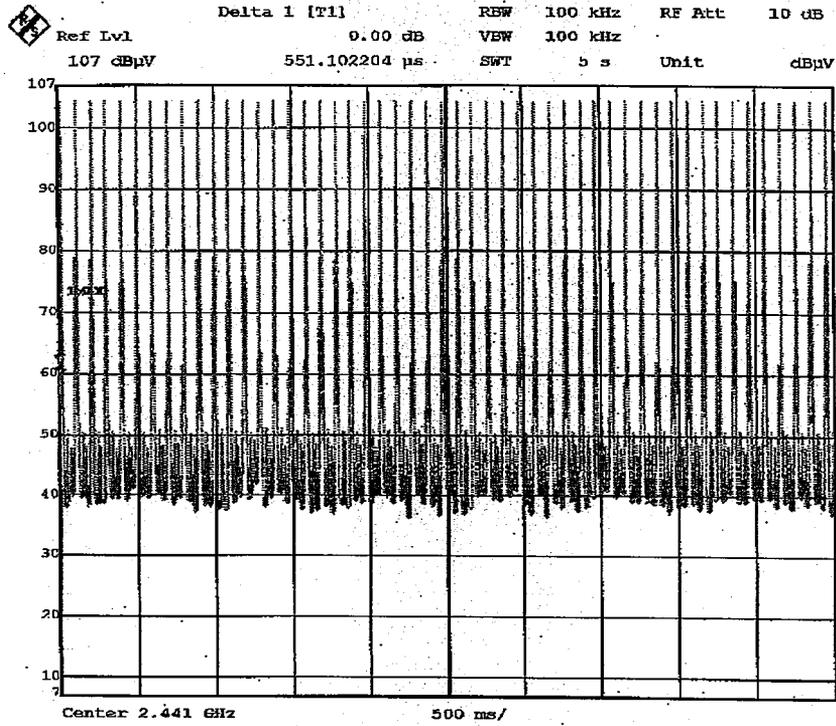
  
Hiroka Umeyama

PK DETECT(S/A :span ZERO, RBW 1MHz, VBW 3MHz, sweep time 1ms-10ms )

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	50 times /5sec. x 6.32 = 316 times	0.551	174	400
DH3	25 times / 5sec. x 6.32 = 158 times	1.683	266	400
DH5	17 times / 5 sec. x 6.32 = 108 times	2.956	320	400
Inquiry	100 times / 1sec. x 12.8 = 1280 times	0.156	200	400

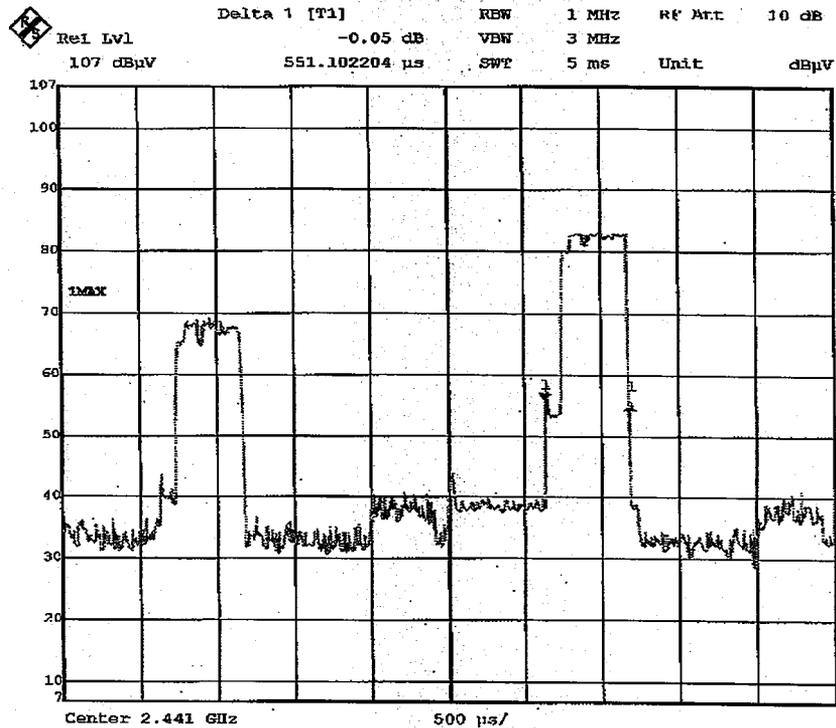
Test report No : 23BE0019-HO-9  
FCC ID : AK8DKCC200X  
IC Number : 409B-DKCC200X

**Dwell time :Tx(Hopping on)DH1(1):DKC-C200X**



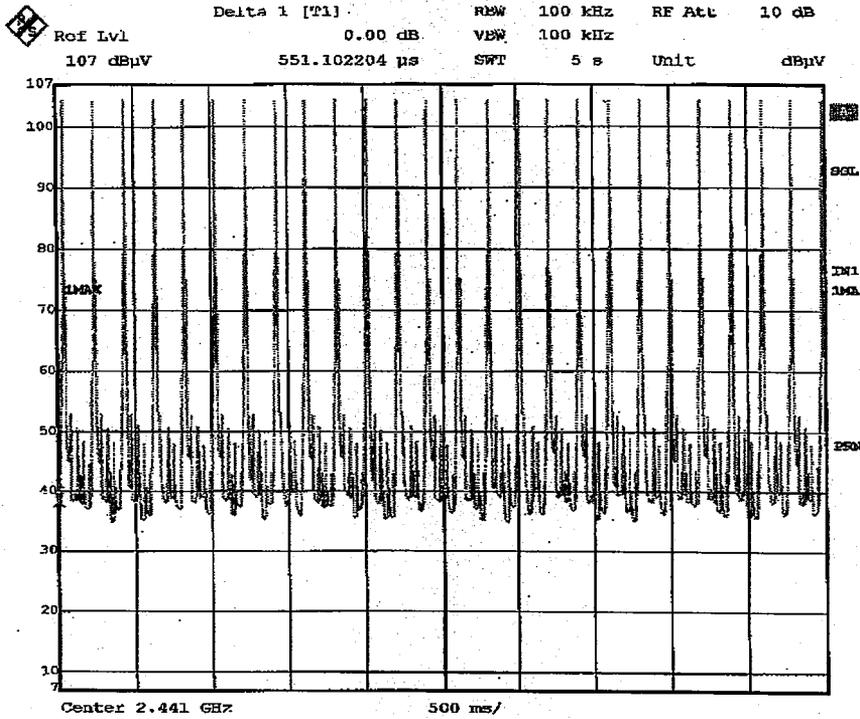
Date: 10.JAN.2003 17:02:57

**Dwell time :Tx(Hopping on)DH1(2):DKC-C200X**



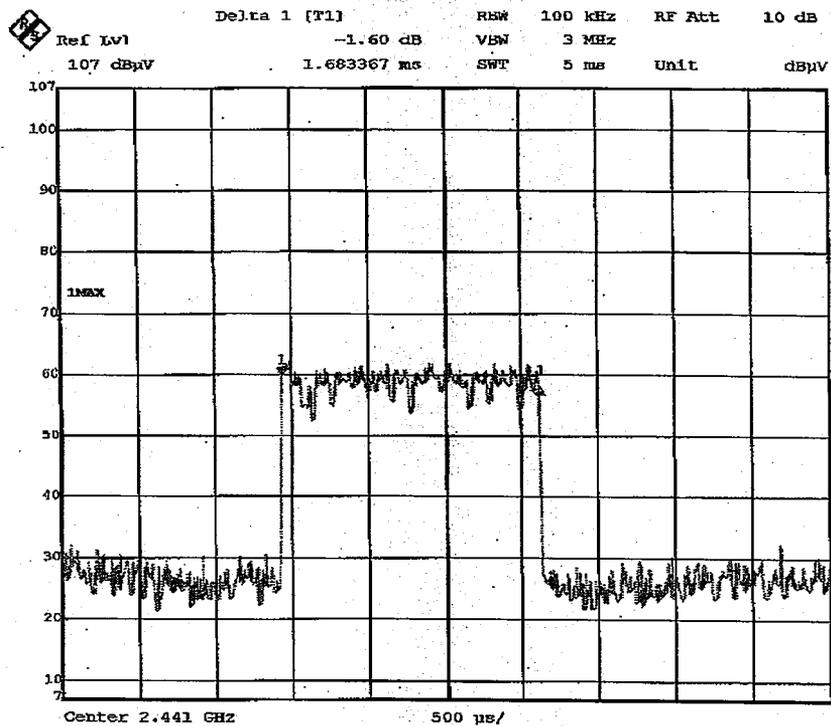
Date: 10.JAN.2003 17:02:59

**Dwell time :Tx(Hopping on)DH3(1):DKC-C200X**



Date: 10.JAN.2003 17:03:24

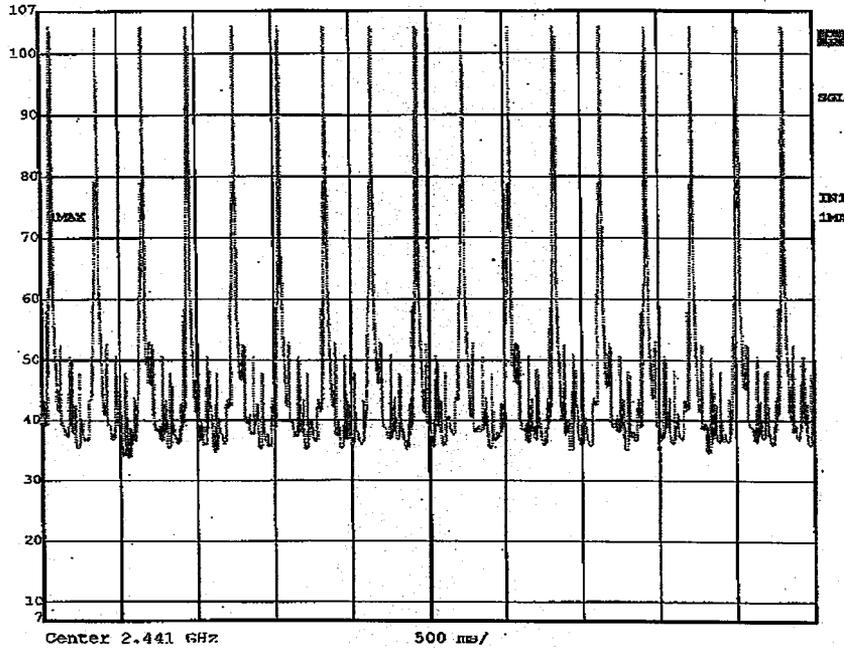
**Dwell time :Tx(Hopping on)DH3(2):DKC-C200X**



Date: 10.JAN.2003 17:05:41

**Dwell time :Tx(Hopping on)DH5(1):DKC-C200X**

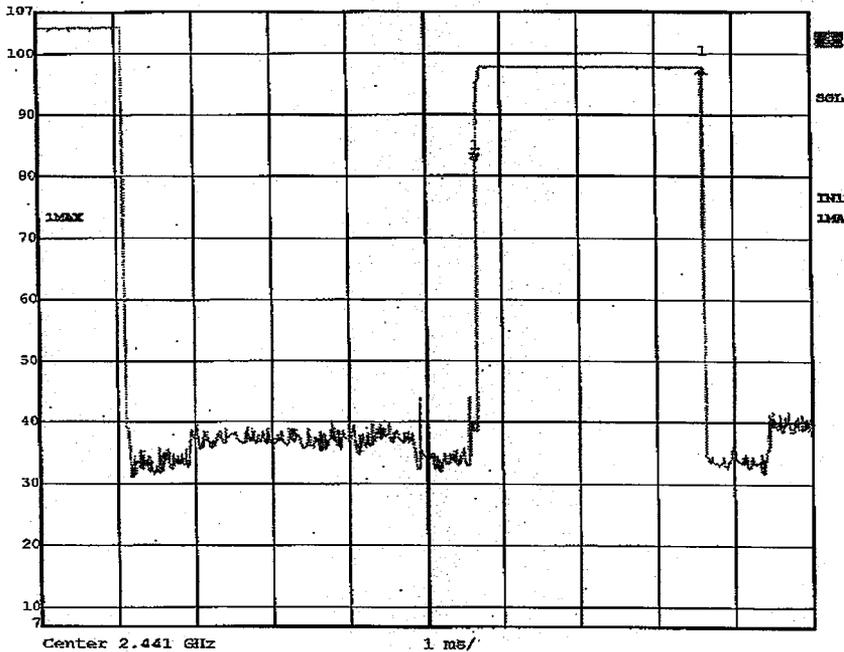
	Marker 1 [T1]	REW	100 kHz	RF Att	10 dB
	Ref Lvl	38.82 dBµV	VIEW	100 kHz	
	107 dBµV	5.000000 ms	SWT	5 s	Unit dBµV



Date: 10.JAN.2003 16:59:02

**Dwell time :Tx(Hopping on)DH5(2):DKC-C200X**

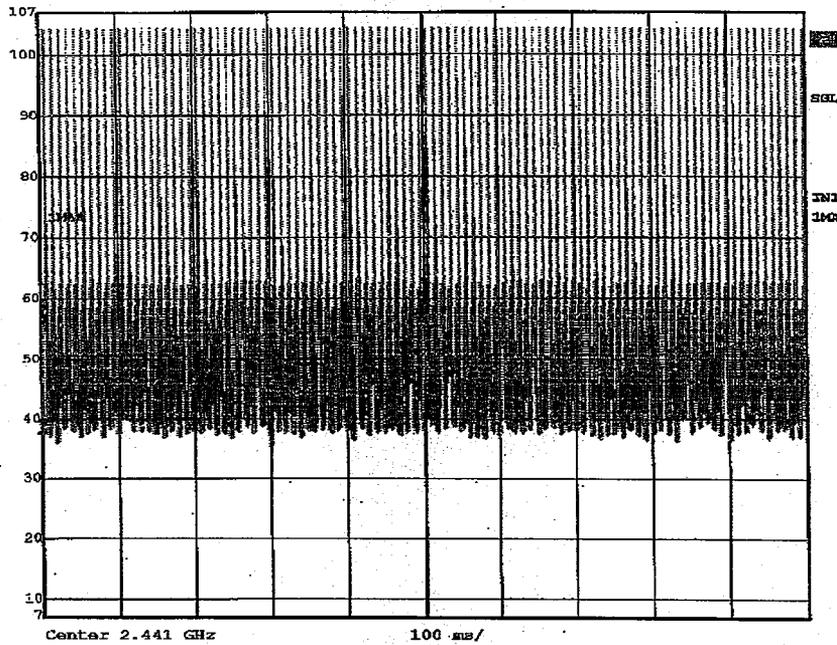
	Delta 1 [T1]	REW	1 MHz	RF Att	10 dB
	Ref Lvl	15.51 dB	VIEW	3 MHz	
	107 dBµV	2.955912 ms	SWT	10 ms	Unit dBµV



Date: 10.JAN.2003 17:00:43

**Dwell time :Inquiry (1):DKC-C200X**

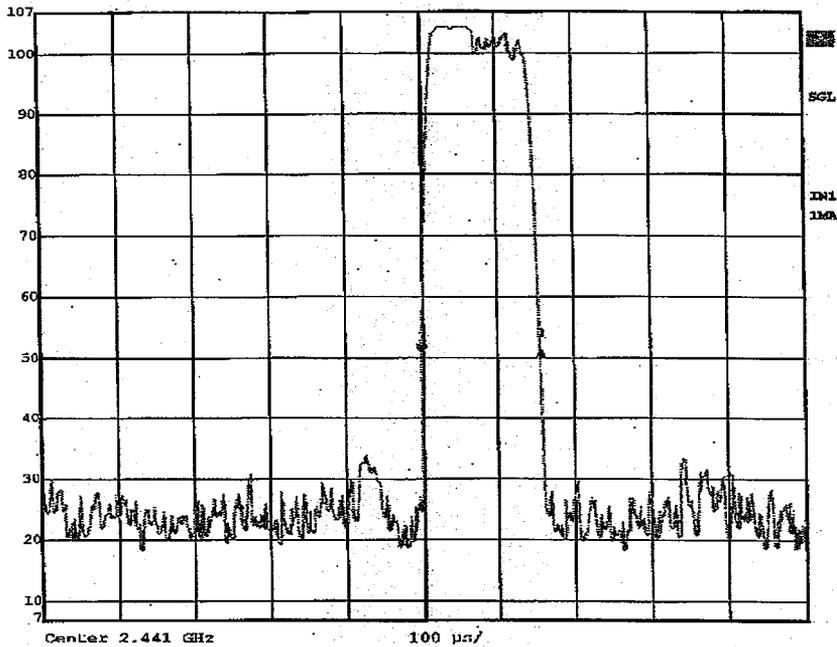
	Delta 1 [T1]	REW	100 kHz	RF Att	10 dB
	Ref Lvl	0.00 dB	VEW	100 kHz	
	107 dBμV	156.312625 μs	SWT	1 s	Unit dBμV



Date: 10.JAN.2003 17:08:36

**Dwell time :Inquiry (2):DKC-C200X**

	Delta 1 [T1]	REW	100 kHz	RF Att	10 dB
	Ref Lvl	0.55 dB	VEW	3 MHz	
	107 dBμV	156.312625 μs	SWT	1 ms	Unit dBμV



Date: 10.JAN.2003 17:08:00

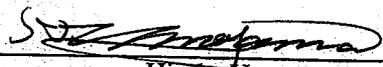
# DATA OF PEAK OUTPUT POWER(CONDUCTED)

A-Pex International Co., Ltd.

EMC HEAD OFFICE DIVISION No.1 SEMI ANECHOIC CHAMBER

COMPANY : Sony Corporation  
EQUIPMENT : Digital Printing System  
MODEL : DKC-C200X  
S/N : 59810048  
FCC ID : AK8DKCC200X  
IC Number : 409B-DKCC200X  
POWER : AC120V/60Hz  
MODE : Tx (Hopping off) /Inquiry

REPORT NO : 23BE0019-HO - 9  
REGULATION : Fcc Part15 Subpart C 15.247(b)(1)  
TEST DISTANCE : -  
DATE : 01/10/2003  
TEMPERATURE : 19°C  
HUMIDITY : 31%

  
Engineer : Hiroka Umeyama

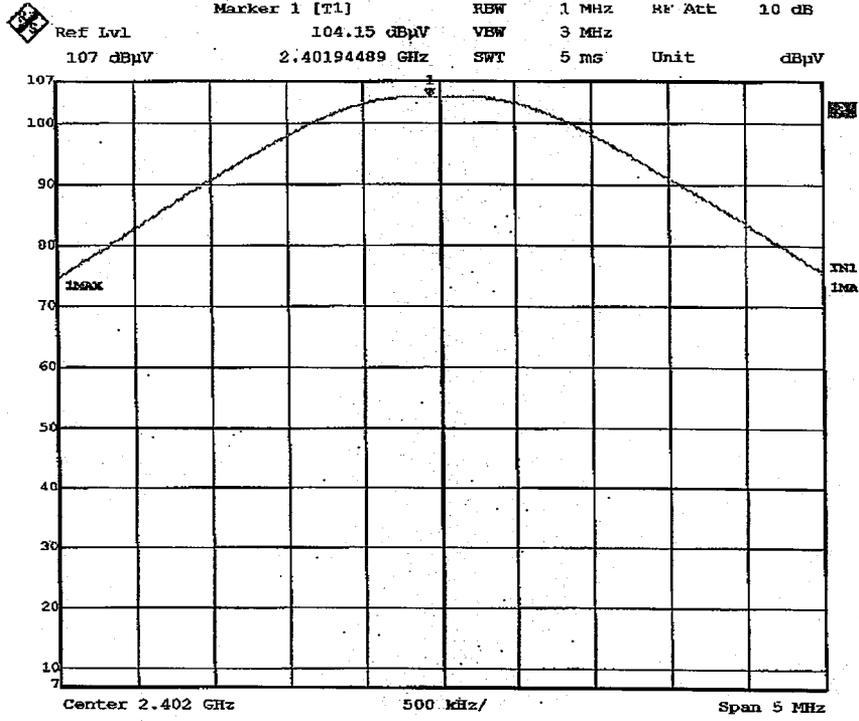
**PK DETECT(S/A: span 5MHz, RBW 1MHz, VBW 3MHz, sweep time AUTO)**

CH	FREQ [MHz]	S/A Reading [dBuV]	Cable Loss [dB]	Result [dBuV]	Result [dBm]	Limit (1W) [dBm]
Low	2402.0	104.2	1.7	105.9	-1.10	30.0
Mid	2441.0	104.2	1.8	106.0	-1.00	30.0
High	2480.0	103.7	1.8	105.5	-1.50	30.0
Inquiry	2441.0	104.0	1.8	105.8	-1.20	21.0

Sample Calculation :

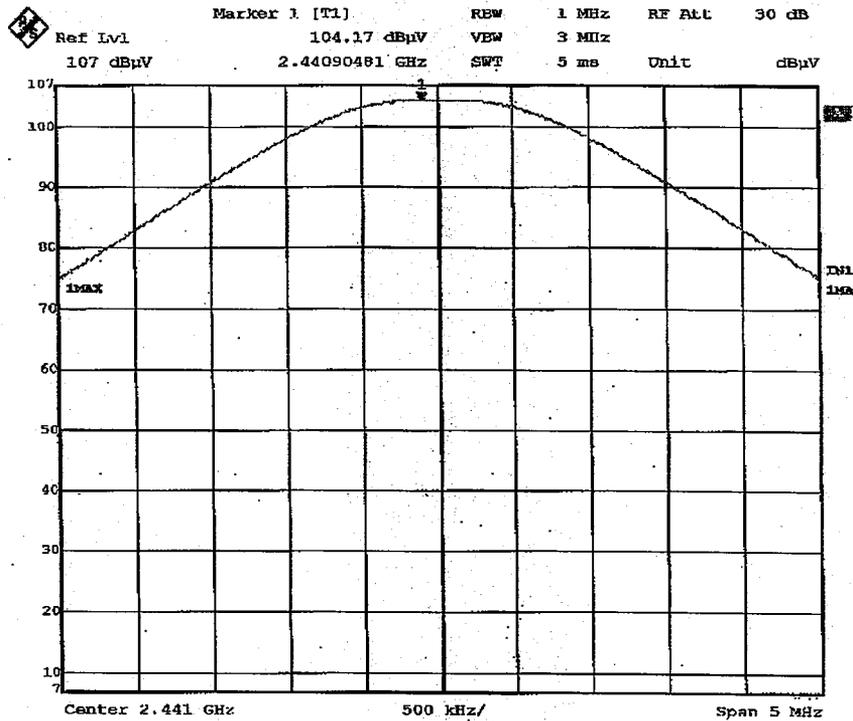
Result = S/A Reading + Cable Loss

**Peak Output Power(Conducted):Tx(2402MHz):DKC-C200X**



Date: 10.JAN.2003 15:27:35

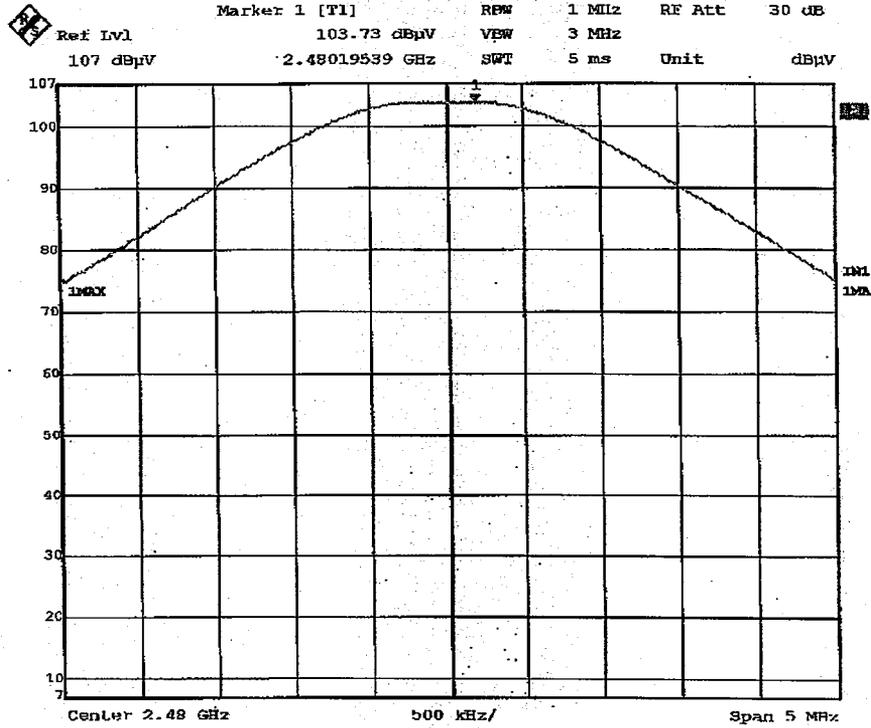
**Peak Output Power(Conducted):Tx(2441MHz):DKC-C200X**



Date: 10.JAN.2003 15:29:48

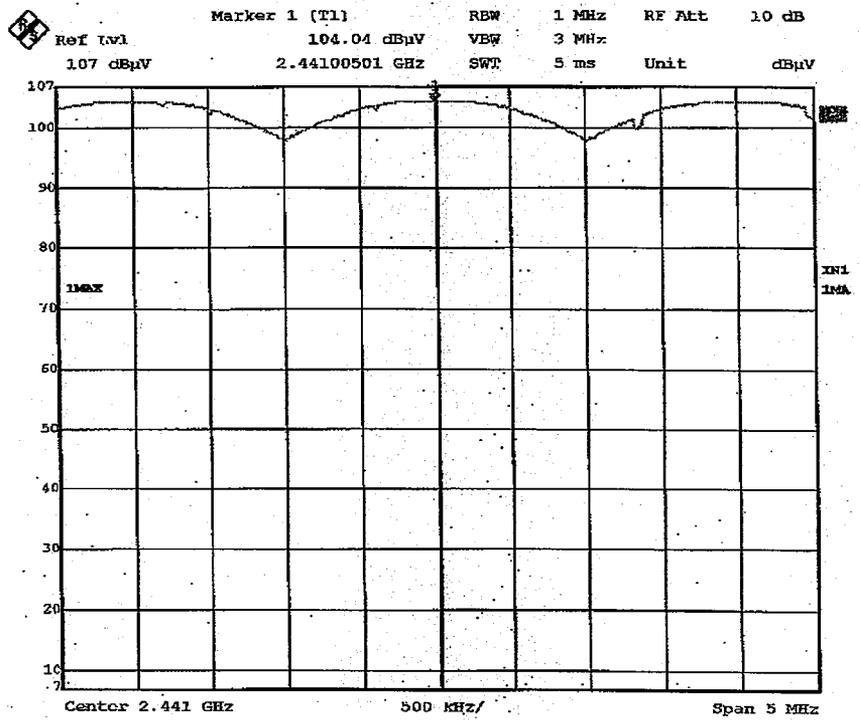
Test report No : 23BE0019-HO-9  
FCC ID : AK8DKCC200X  
IC Number : 409B-DKCC200X

**Peak Output Power(Conducted):Tx(2480MHz):DKC-C200X**



Date: 10.JAN.2003 15:31:22

**Peak Output Power(Conducted):Inquiry:DKC-C200X**



Date: 10.JAN.2003 17:11:08

# DATA OF BAND EDGE

A-Pex International Co., Ltd.  
EMC HEAD OFFICE DIVISION No.1 SEMI ANECHOIC CHAMBER

COMPANY : Sony Corporation  
EQUIPMEN : Digital Printing System  
MODEL : DKC-C200X  
S/ N : 59810048  
FCC ID : AK8DKCC200X  
IC Number : 409B-DKCC200X  
POWER : AC120V/60Hz  
MODE : Tx (Hopping on/off)

REPORT NO : 23BE0019-HO - 9  
REGULATION : Fcc Part15 Subpart C 15.247(c)  
TEST DISTANCE : -  
DATE : 01/10/2003  
TEMPERATURE : 19°C  
HUMIDITY : 31%

  
 Engineer : Hiroka Umeyama

PK DETECT(S/A :Span 20/10MHz, RBW 200/100kHz/1MHz, VBW 200/100kHz/1MHz, sweep time AUTO)  
[Hopping on] Conducted

Frequency [MHz]	Reading [dBuV]	Cable Loss [dB]	E [dBuV]	P [nW]	Difference of level [dB]	Field Strength [dBuV/m]	Limit
2390.0	50.3	1.7	52.0	3.16	-	43.8	<74[dBuV/m]
2400.0	60.4	1.7	62.1	-	43.3*	-	>20[dB]
2483.5	56.2	1.8	58.0	12.59	-	49.8	<74[dBuV/m]

\* Reference : Reading (103.7[dBuV]) + Cable Loss (1.7[dB]) = E (105.4[dBuV]) at 2402MHz.

[Hopping off Tx (2402/2480MHz)] Conducted

Frequency [MHz]	Reading [dBuV]	Cable Loss [dB]	E [dBuV]	P [nW]	Difference of level [dB]	Field Strength [dBuV/m]	Limit
2390.0	40.3	1.7	42.0	0.32	-	33.8	<74[dBuV/m]
2400.0	62.5	1.7	64.2	-	41.5*	-	>20[dB]
2483.5	57.6	1.8	59.4	17.38	-	51.2	<74[dBuV/m]

\* Reference : Reading (104.0[dBuV]) + Cable Loss (1.7[dB]) = E (105.7[dBuV]) at 2402MHz.

Sample Calculation:

Field Strength =  $(\sqrt{30 \cdot P \cdot 10^{-9} \cdot G}) / d$

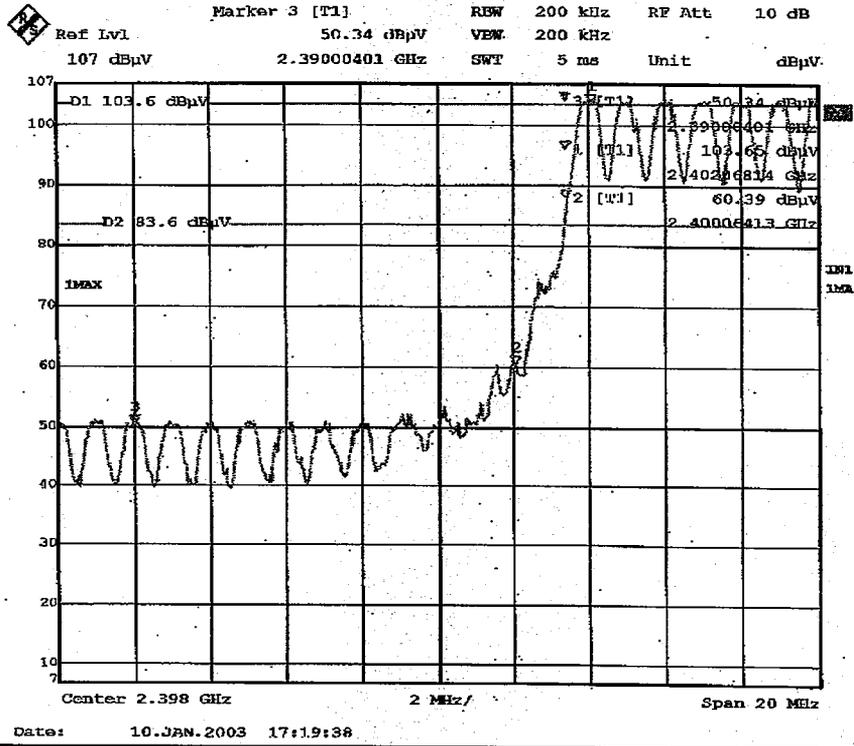
E : Reading + Cable Loss

P : Converted to nW

d : Test distance(3.0m)

G : Numeric Antenna Gain (2.27)

**Band Edge :Tx(Hopping on)2402MHz:DKC-C200X**



**Band Edge :Tx(Hopping on)2480MHz:DKC-C200X**

