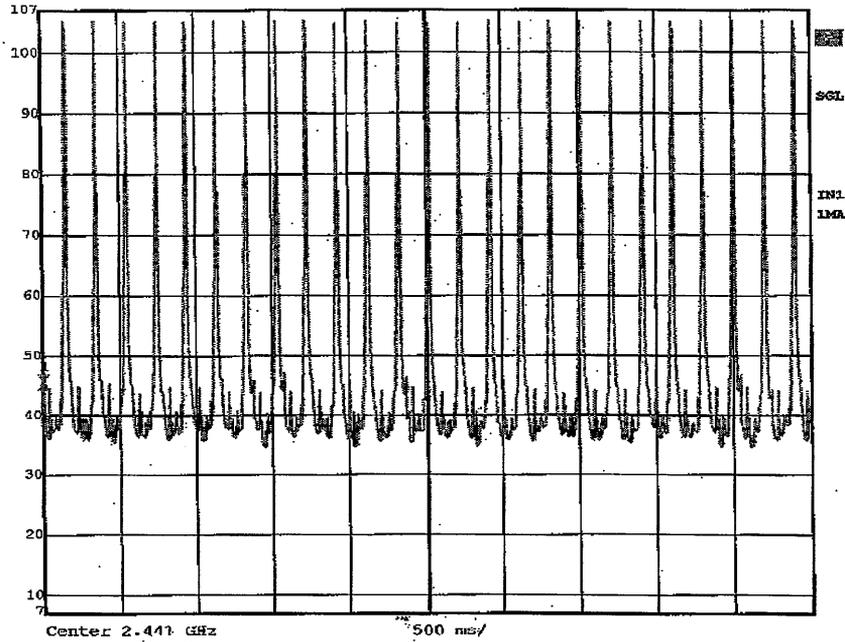


**Dwell time :Tx(Hopping on)DH3(1) :Ver.B**

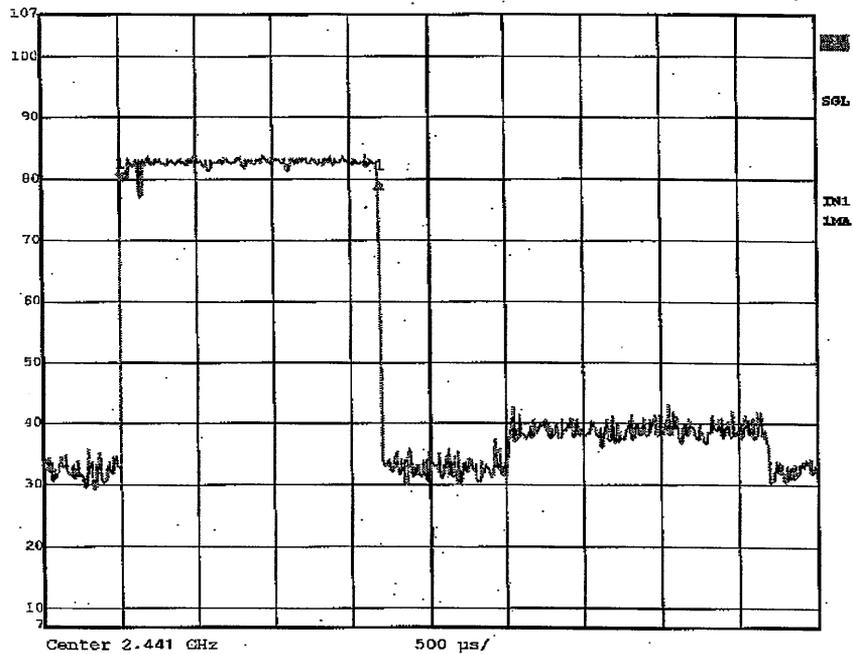
	Delta 1 [T1]	REW	100 kHz	RF Att	10 dB
Ref Lvl	0.00 dB	VBW	100 kHz		
107 dBμV	440.881764 μs	SWT	5 s	Unit	dBμV



Date: 20.NOV.2002 15:43:20

**Dwell time :Tx(Hopping on)DH3(2):Ver.B**

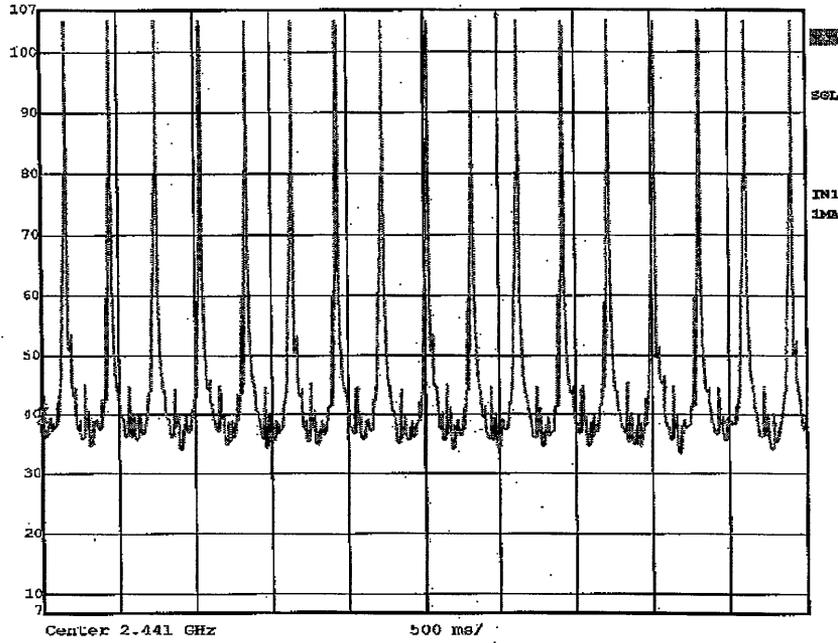
	Delta 1 [T1]	REW	1 MHz	RF Att	10 dB
Ref Lvl	-0.19 dB	VBW	3 MHz		
107 dBμV	1.683367 ms	SWT	5 ms	Unit	dBμV



Date: 20.NOV.2002 15:44:46

**Dwell time :Tx(Hopping on)DH5(1):Ver.B**

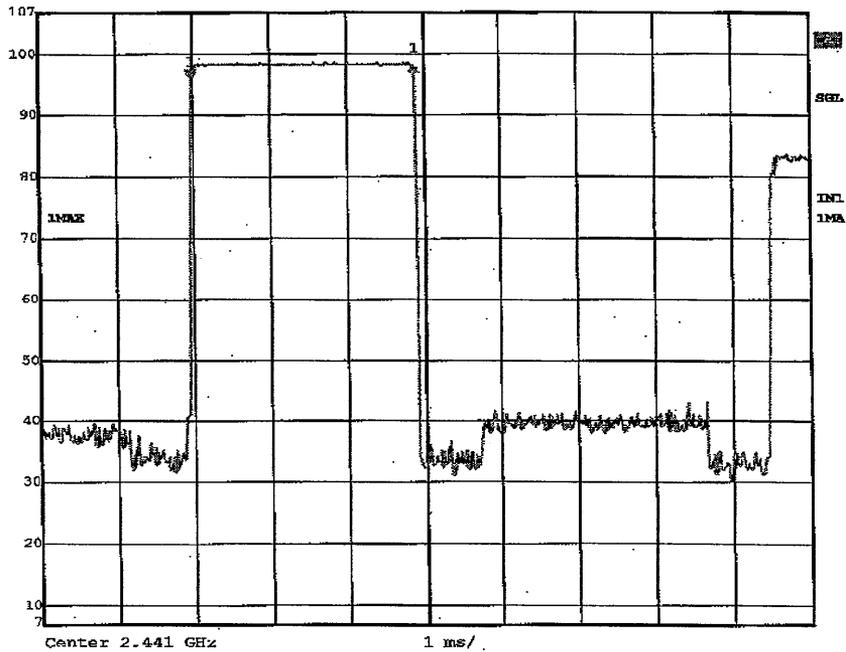
	Delta 1 [T1]	RBW	100 kHz	RF Att	10 dB
Ref Lvl	0.00 dB	VBW	100 kHz		
107 dBμV	2.915832 ms	SWT	5 s	Unit	dBμV



Date: 20.NOV.2002 15:49:38

**Dwell time :Tx(Hopping on)DH5(2):Ver.B**

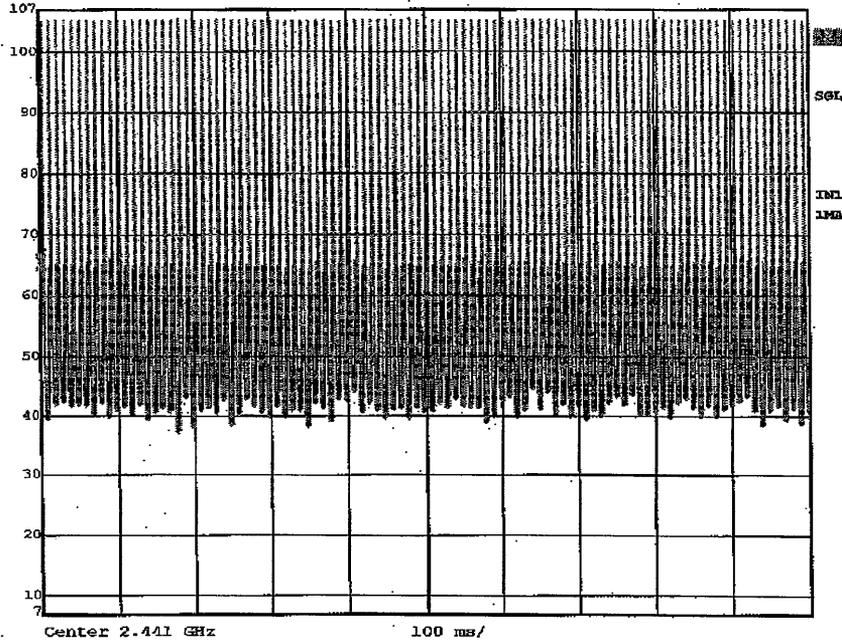
	Delta 1 [T1]	RBW	1 MHz	RF Att	10 dB
Ref Lvl	2.33 dB	VBW	3 MHz		
107 dBμV	2.915832 ms	SWT	10 ms	Unit	dBμV



Date: 20.NOV.2002 15:46:55

### Dwell time :Inquiry (1):Ver.B

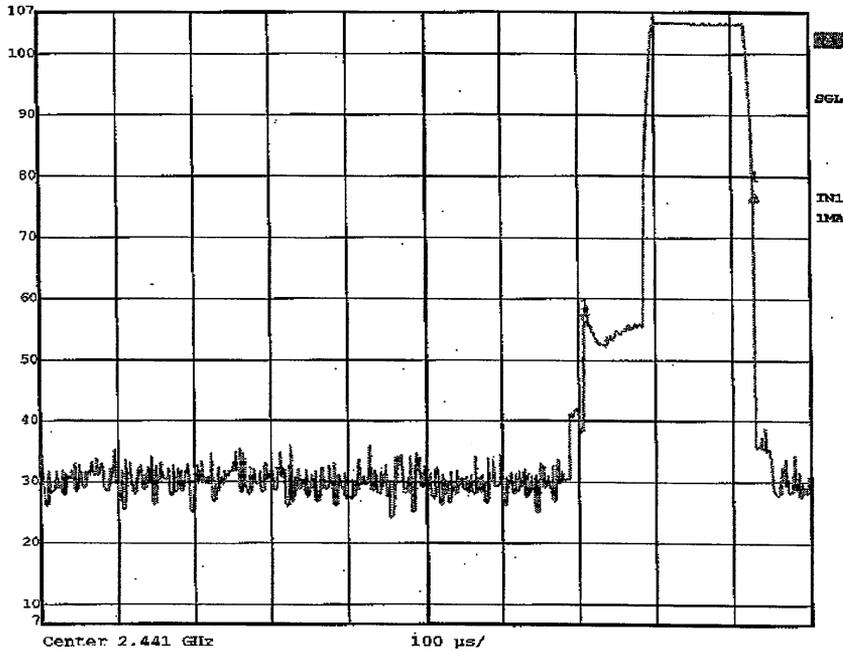
	Delta 1 [T1]	REW	100 kHz	RF Att	10 dB
Ref Lvl	0.00 dB	VBW	100 kHz		
107 dBμV	222.444890 μs	SWT	1 s	Unit	dBμV



Date: 20.NOV.2002 16:01:15

### Dwell time :Inquiry (2):Ver.B

	Delta 1 [T1]	REW	1 MHz	RF Att	10 dB
Ref Lvl	21.10 dB	VBW	3 MHz		
107 dBμV	222.444890 μs	SWT	1 ms	Unit	dBμV



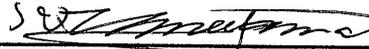
Date: 20.NOV.2002 15:56:13

# DATA OF PEAK OUTPUT POWER(CONDUCTED)

A-PEX INTERNATIONAL CO., LTD.  
EMC HEAD OFFICE DIVISON No.2 SEMI ANECHOIC CHAMBER

COMPANY : Sony Corporation  
EQUIPMENT : Digital Video Camera Recorder  
MODEL : DCR-TRV80  
S/N : 175  
REMARKS : Ver.A  
POWER : AC120V/60Hz  
MODE : Tx (Hopping off) / Inquiry

REPORT NO : 23CE0075-HO  
REGULATION : Fcc Part15 Subpart C 15.247(b)(1)  
TEST DISTANCE :-  
DATE : 11/20/2002  
TEMPARATURE : 20°C  
HUMIDYTY : 39%

  
ENGINEER : Hiroka Umeyama

CH	FREQ [MHz]	T/R Reading [dBuV]	Cable Loss [dB]	Result [dBuV]	Result [dBm]	Limit (1W) [dBm]
Low	2402.0	104.8	1.7	106.5	-0.50	30.0
Mid	2441.0	105.2	1.8	107.0	-0.02	30.0
High	2480.0	105.3	1.8	107.1	0.12	30.0

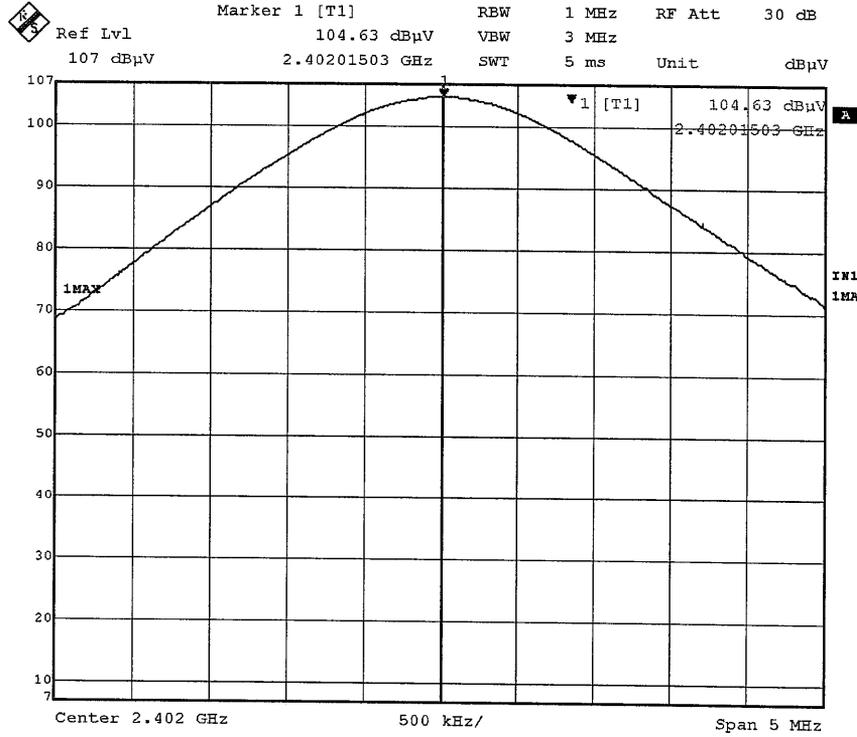
**PK DETECT(S/A: span 5MHz, RBW 1MHz, VBW 3MHz, sweep time AUTO)**

CH	FREQ [MHz]	S/A Reading [dBuV]	Cable Loss [dB]	Result [dBuV]	Result [dBm]	Limit (125mW) [dBm]
Inquiry	2441.0	105.1	1.8	106.9	-0.08	21.0

Sample Calculation :

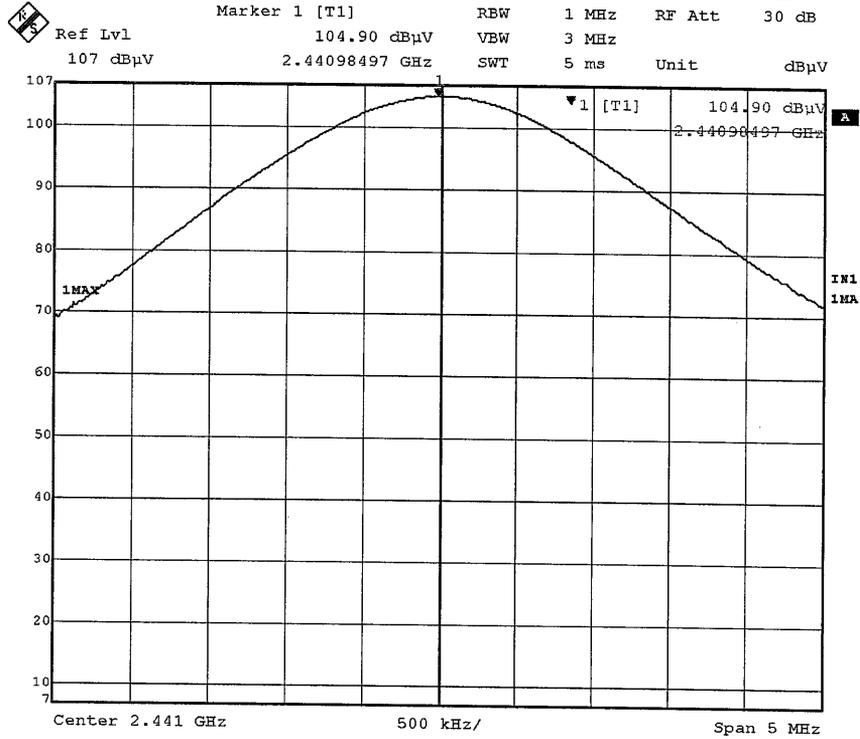
Result = T/R(S/A) Reading + Cable Loss

### Peak Output Power(Conducted):Tx(2402MHz):Ver.A



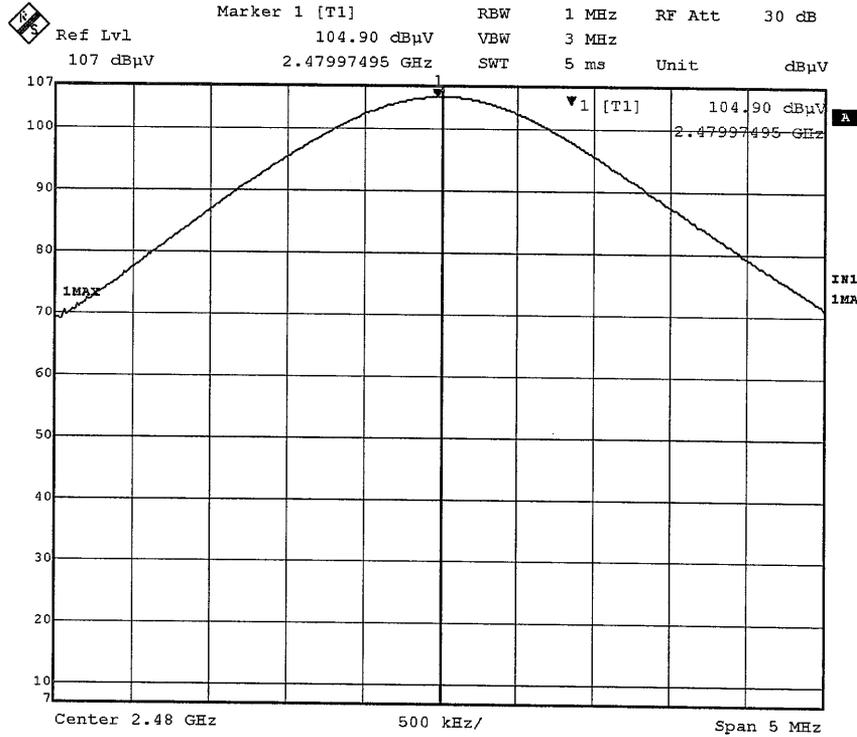
Date: 20.NOV.2002 14:12:07

### Peak Output Power(Conducted):Tx(2441MHz):Ver.A



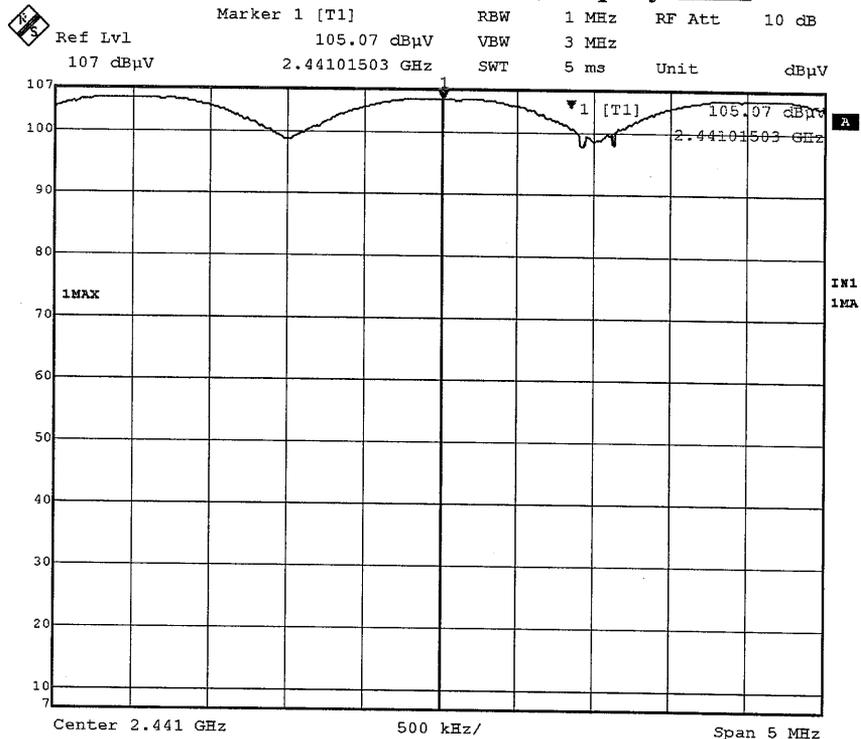
Date: 20.NOV.2002 14:14:36

### Peak Output Power(Conducted):Tx(2480MHz):Ver.A



Date: 20.NOV.2002 14:17:15

### Peak Output Power(Conducted):Inquiry:Ver.A



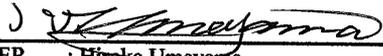
Date: 20.NOV.2002 14:09:52

# DATA OF PEAK OUTPUT POWER(CONDUCTED)

A-PEX INTERNATIONAL CO., LTD.  
EMC HEAD OFFICE DIVISON No.2 SEMI ANECHOIC CHAMBER

COMPANY : Sony Corporation  
EQUIPMENT : Digital Video Camera Recorder  
MODEL : DCR-TRV80  
S/N : 172  
REMARKS : Ver.B  
POWER : AC120V/60Hz  
MODE : Tx (Hopping off) / Inquiry

REPORT NO : 23CE0075-HO  
REGULATION : Fcc Part15 Subpart C 15.247(b)(1)  
TEST DISTANCE : -  
DATE : 11/20/2002  
TEMPERATURE : 20°C  
HUMIDITY : 39%

  
ENGINEER : Hiroka Umeyama

CH	FREQ [MHz]	T/R Reading [dBuV]	Cable Loss [dB]	Result [dBuV]	Result [dBm]	Limit (1W) [dBm]
Low	2402.0	104.8	1.7	106.5	-0.50	30.0
Mid	2441.0	105.1	1.8	106.9	-0.12	30.0
High	2480.0	105.4	1.8	107.3	0.26	30.0

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

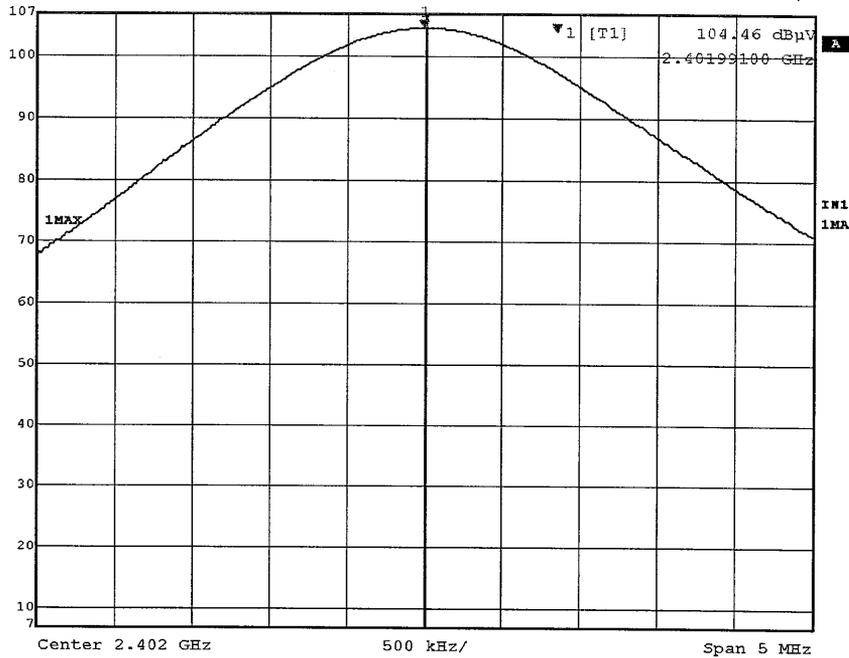
CH	FREQ [MHz]	S/A Reading [dBuV]	Cable Loss [dB]	Result [dBuV]	Result [dBm]	Limit (125mW) [dBm]
Inquiry	2441.0	105.2	1.8	107.0	0.02	21.0

Sample Calculation :

Result = T/R(S/A) Reading + Cable Loss

### Peak Output Power(Conducted):Tx(2402MHz):Ver.B

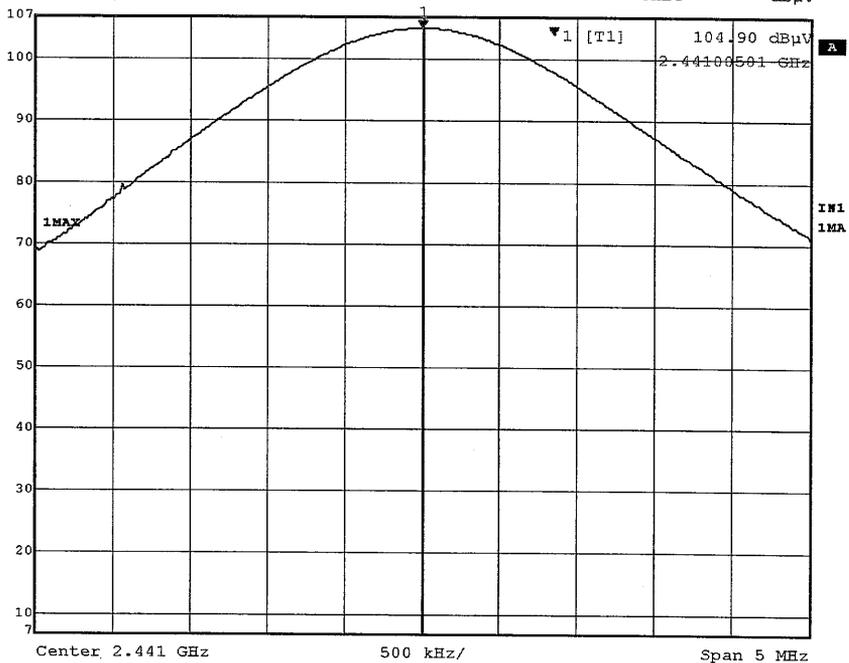
	Marker 1 [T1]	RBW	1 MHz	RF Att	10 dB
	Ref Lvl	104.46 dBμV	VBW	3 MHz	
	107 dBμV	2.40199100 GHz	SWT	5 ms	Unit dBμV



Date: 20.NOV.2002 13:33:34

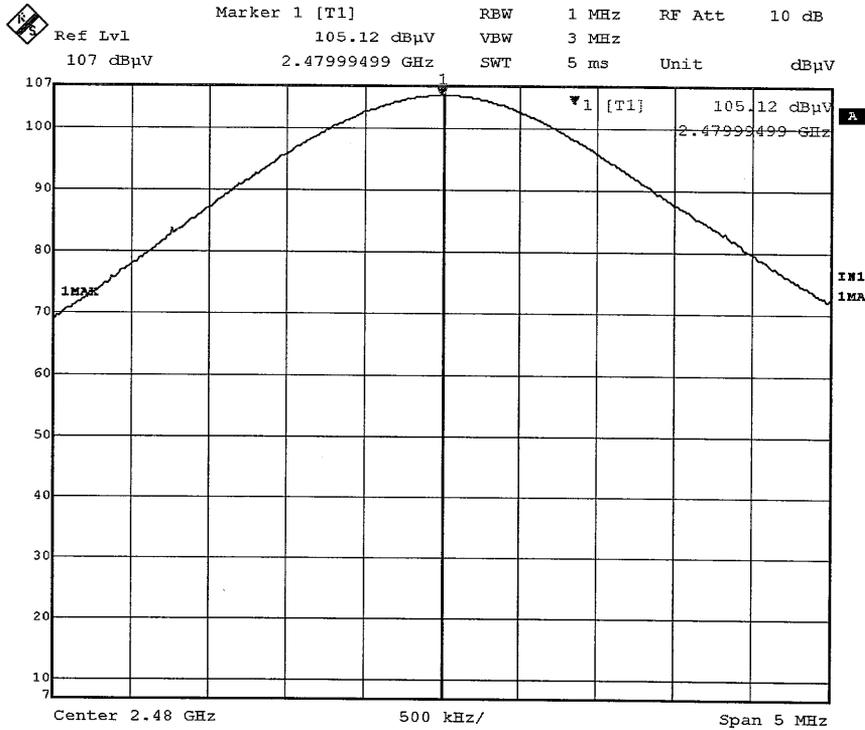
### Peak Output Power(Conducted):Tx(2441MHz):Ver.B

	Marker 1 [T1]	RBW	1 MHz	RF Att	10 dB
	Ref Lvl	104.90 dBμV	VBW	3 MHz	
	107 dBμV	2.44100501 GHz	SWT	5 ms	Unit dBμV



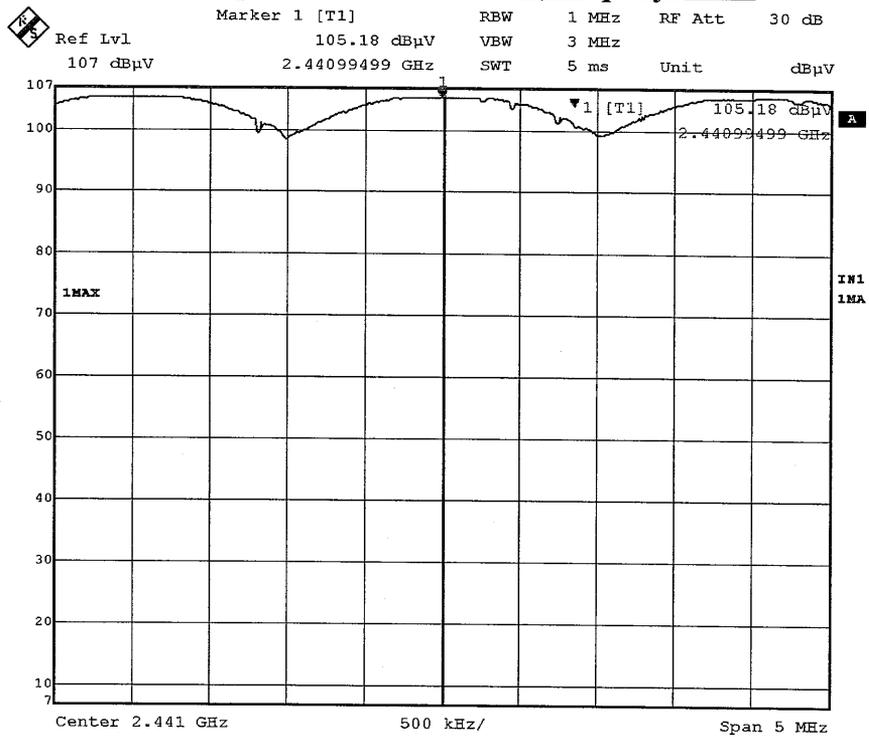
Date: 20.NOV.2002 13:38:15

### Peak Output Power(Conducted):Tx(2480MHz):Ver.B



Date: 20.NOV.2002 13:40:30

### Peak Output Power(Conducted):Inquiry:Ver.B



Date: 20.NOV.2002 14:25:46

# DATA OF BAND EDGE

A-PEX INTERNATIONAL CO., LTD.

EMC HEAD OFFICE DIVISON No.2 SEMI ANECHOIC CHAMBER

COMPANY : Sony Corporation  
 EQUIPMENT : Digital Video Camera Recorder  
 MODEL : DCR-TRV80  
 S/N : 175  
 REMARKS : Ver.A  
 POWER : AC120V/60Hz  
 MODE : Tx (Hopping on) ,Tx (Hopping off 2402/2480MHz)

REPORT NO : 23CE0075-HO  
 REGULATION : Fcc Part15 Subpart C 15.247(c)  
 TEST DISTANCE : -  
 DATE : 11/20/2002  
 TEMPARATURE : 20°C  
 HUMIDYTY : 39%

  
 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	42.9	1.7	44.6	0.58	-	32.8	<74[dBuV/m]
2400.0	58.7	1.7	60.4	-	46.3*	-	>20[dB]
2484.0	63.2	1.8	65.0	63.1	-	53.2	<74[dBuV/m]

\* Reference : Reading (104.9[dBuV]) + Cable Loss (1.8[dB]) = E (106.7[dBuV]) at 2480MHz.

[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	40.4	1.7	42.1	0.32	-	30.3	<74[dBuV/m]
2400.0	60.8	1.7	62.5	-	44.3*	-	>20[dB]
2484.0	63.7	1.8	65.5	70.8	-	53.7	<74[dBuV/m]

\* Reference : Reading (105.0[dBuV]) + Cable Loss (1.8[dB]) = E (106.8[dBuV]) at 2480MHz.

Sample Calculation:

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

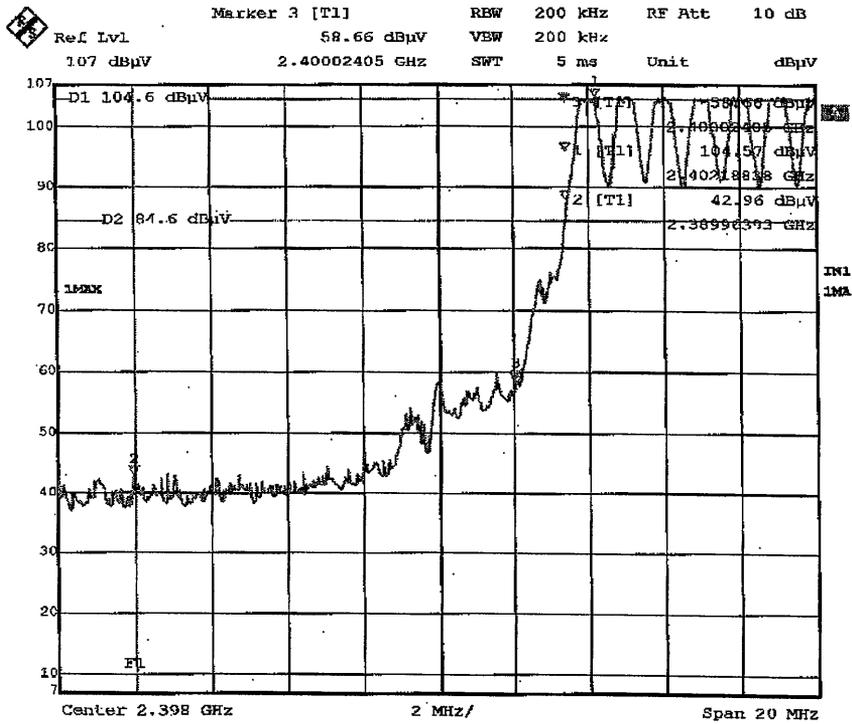
E : Reading + Cable Loss

P : Converted to nW

d : Test distance(3.0m)

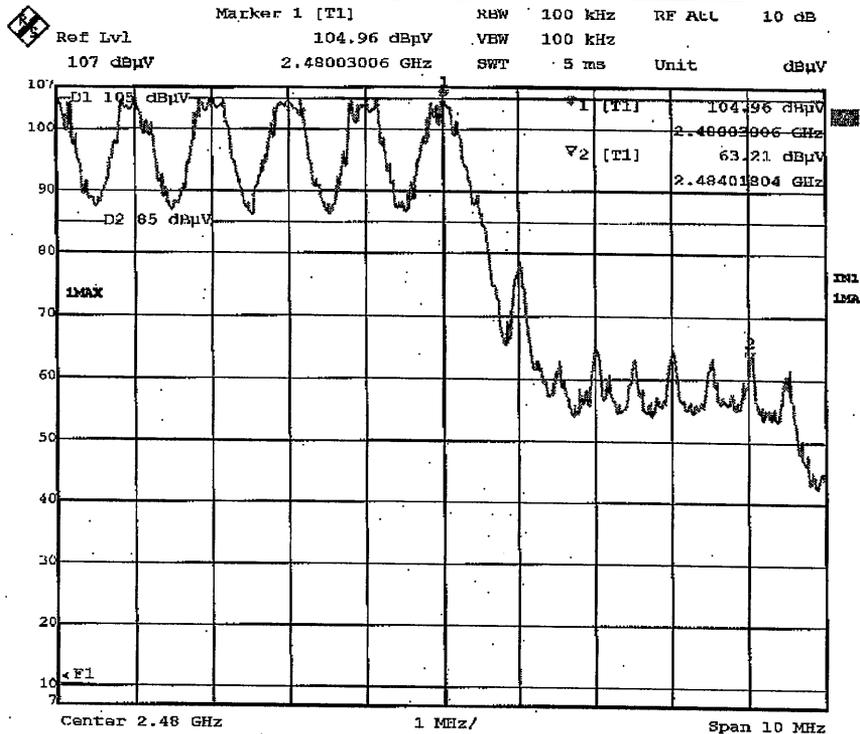
G : Numeric Antenna Gain (1.0)

### Band Edge :Tx(Hopping on)2402MHz:Ver.A



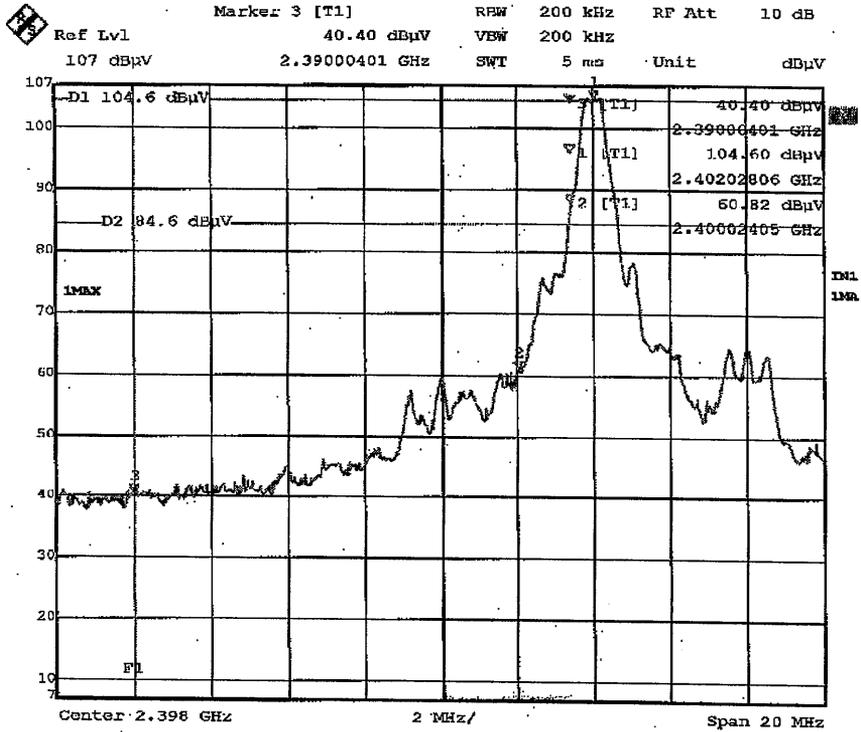
Date: 20.NOV.2002 18:36:07

### Band Edge :Tx(Hopping on)2480MHz:Ver.A



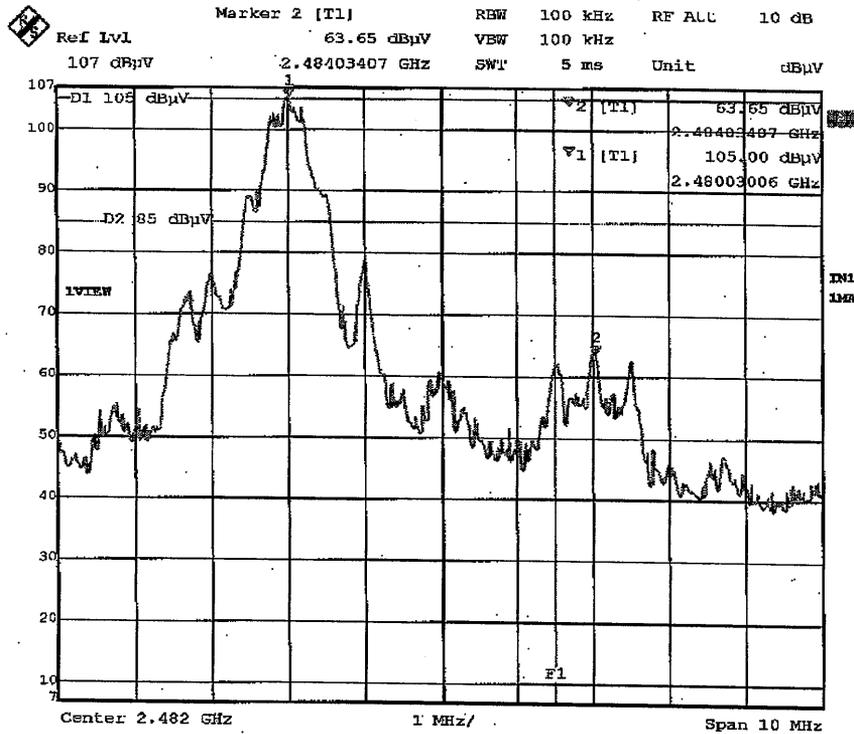
Date: 20.NOV.2002 18:49:50

### Band Edge :Tx(Hopping off)2402MHz:Ver.A



Date: 20.NOV.2002 18:40:59

### Band Edge :Tx(Hopping off)2480MHz:Ver.A



Date: 20.NOV.2002 18:55:42

# DATA OF BAND EDGE

A-PEX INTERNATIONAL CO., LTD.

EMC HEAD OFFICE DIVISON No.2 SEMI ANECHOIC CHAMBER

COMPANY : Sony Corporation  
 EQUIPMENT : Digital Video Camera Recorder  
 MODEL : DCR-TRV80  
 S/N : 172  
 REMARKS : Ver.B  
 POWER : AC120V/60Hz  
 MODE : Tx (Hopping on) ,Tx (Hopping off 2402/2480MHz)

REPORT NO : 23CE0075-HO  
 REGULATION : Fcc Part15 Subpart C 15.247(c)  
 TEST DISTANCE : -  
 DATE : 11/20/2002  
 TEMPARATURE : 20°C  
 HUMIDITY : 39%

  
 ENGINEER : Hiroka Umeyama

**PK DETECT(S/A :Span 20/10MHz, RBW 200/100kHz ,VBW 200/100kHz, 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	44.4	1.7	46.1	0.81	-	34.3	<74[dBuV/m]
2400.0	62.0	1.7	63.7	-	43.2*	-	>20[dB]
2483.5	58.6	1.8	60.4	21.9	-	48.6	<74[dBuV/m]

\* Reference : Reading (105.1[dBuV]) + Cable Loss (1.8[dB]) = E (106.9[dBuV]) at 2480MHz.

[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	41.5	1.7	43.2	0.42	-	31.4	<74[dBuV/m]
2400.0	61.5	1.7	63.2	-	43.8*	-	>20[dB]
2484.5	60.8	1.8	62.6	36.3	-	50.8	<74[dBuV/m]

\* Reference : Reading (105.2[dBuV]) + Cable Loss (1.8[dB]) = E (107.0[dBuV]) at 2480MHz.

Sample Calculation:

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

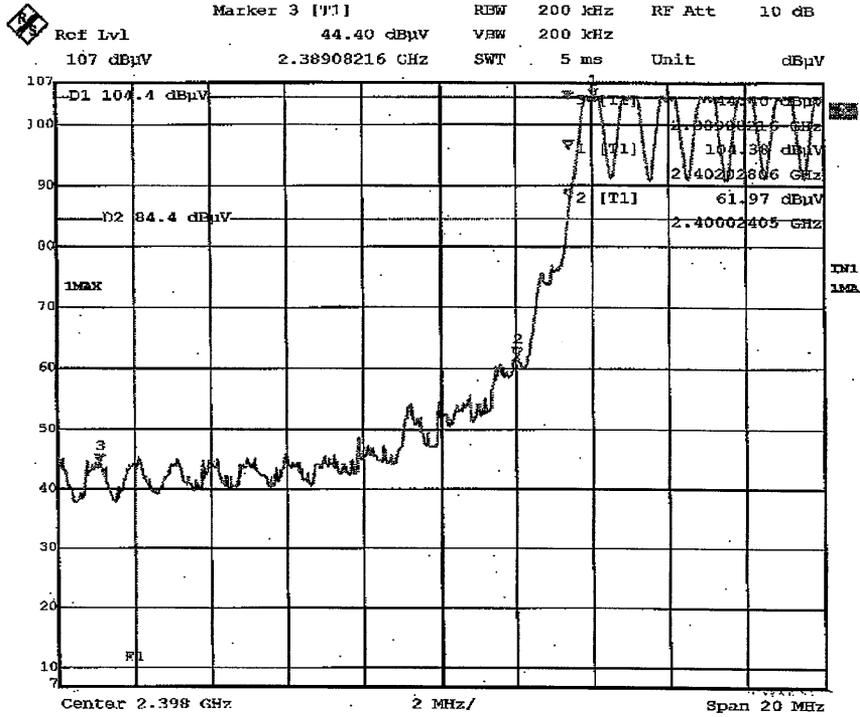
E : Reading + Cable Loss

P : Converted to nW

d : Test distance(3.0m)

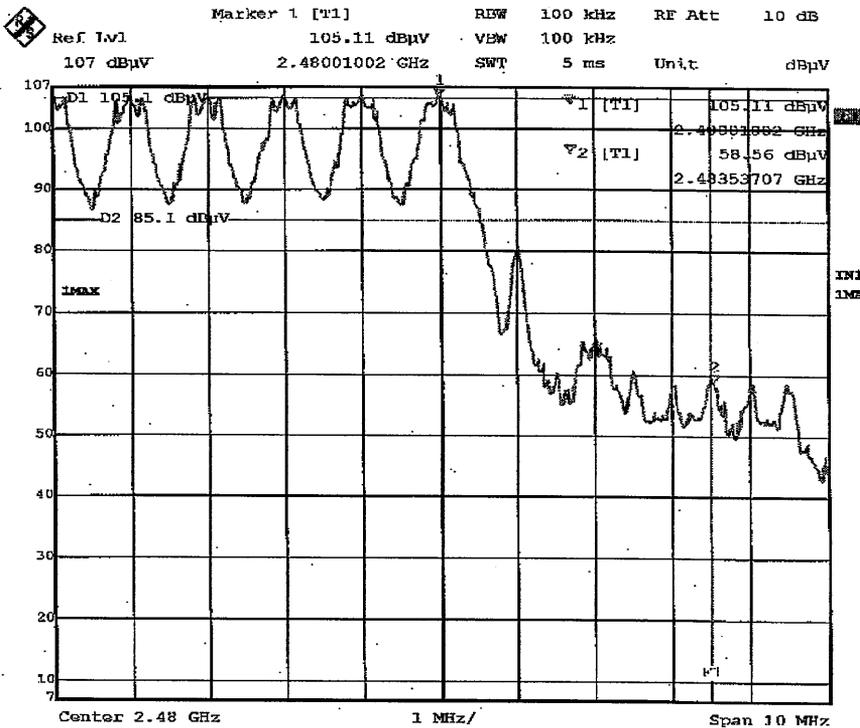
G : Numeric Antenna Gain (1.0)

### Band Edge :Tx(Hopping on)2402MHz:Ver.B



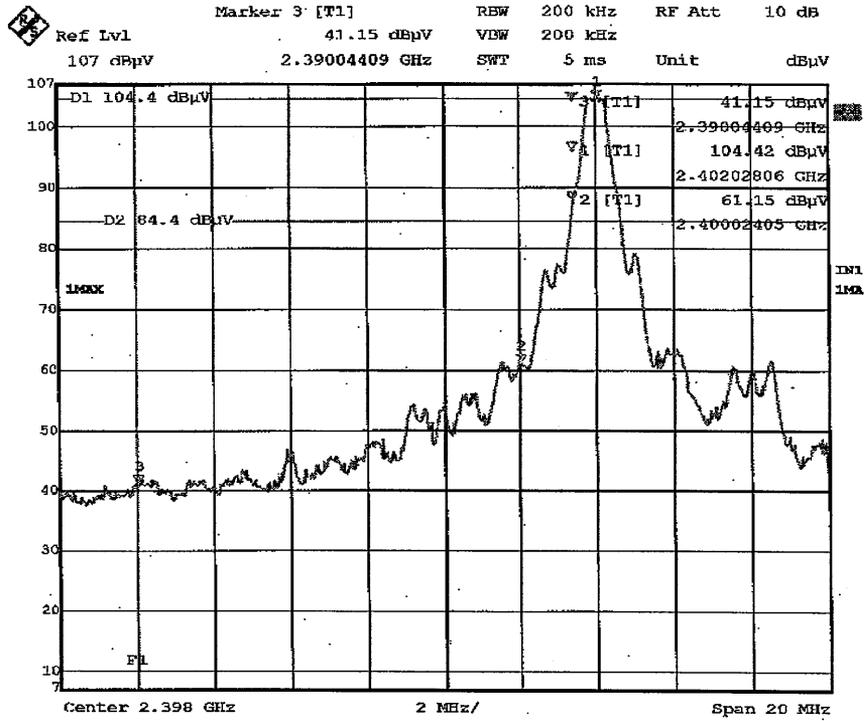
Date: 20.NOV.2002 16:26:11

### Band Edge :Tx(Hopping on)2480MHz:Ver.B



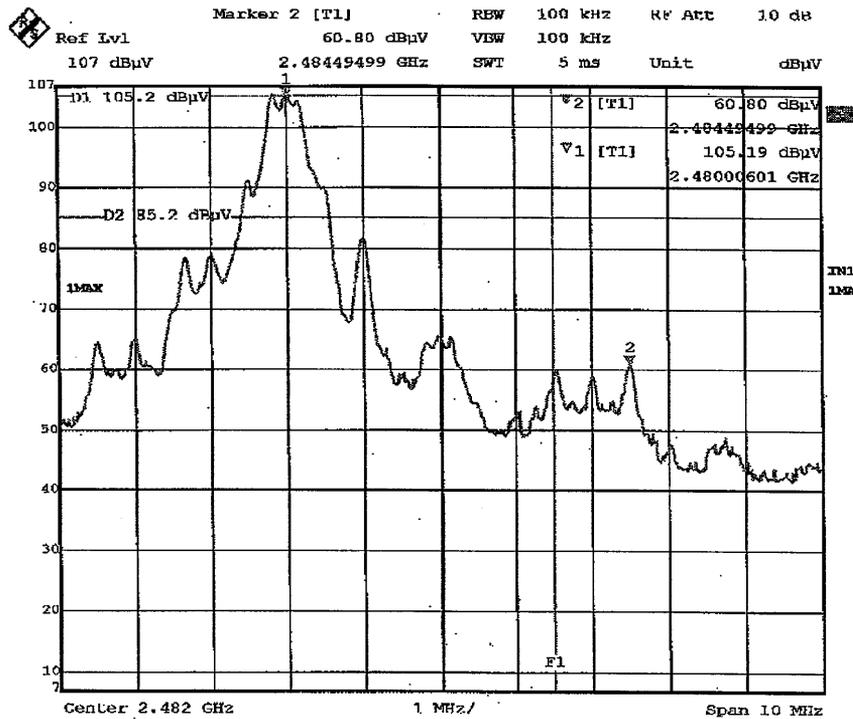
Date: 20.NOV.2002 16:19:53

### Band Edge :Tx(Hopping off)2402MHz:Ver.B



Date: 20.NOV.2002 17:38:31

### Band Edge :Tx(Hopping off)2480MHz:Ver.B

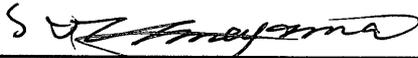


Date: 20.NOV.2002 17:40:00

# DATA OF RADIATION TEST

A-Pex International Co., Ltd.  
No.2 SEMI ANECHOIC CHAMBER  
Report No. : 23CE0075-H0

Applicant : Sony Corporation  
Kind of Equipment : Digital Video Camera Recorder  
Model No. : DCR-TRV80  
Serial No. : 111  
Power : AC120V/60Hz  
Mode : Tx (2402MHz)  
Remarks : Ver. A  
Date : 11/15/2002  
Test Distance : 3 m  
Temperature : 22 °C  
Humidity : 38 %  
Regulation : FCC § 15.247 (C)

  
Engineer : Hiroka Umeyama

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.	42.95	BB	22.3	31.7	13.5	27.4	0.7	5.8	14.9	24.3	40.0	25.1	15.7
2.	95.49	BB	31.4	34.4	9.6	26.9	1.1	5.8	21.0	24.0	43.5	22.5	19.5
3.	109.62	BB	34.9	36.5	11.7	26.8	1.2	5.8	26.8	28.4	43.5	16.7	15.1
4.	129.29	BB	29.2	31.4	13.8	26.7	1.2	5.8	23.3	25.5	43.5	20.2	18.0
5.	188.99	BB	34.4	33.4	17.0	26.1	1.6	5.8	32.7	31.7	43.5	10.8	11.8
6.	270.00	BB	42.0	38.5	18.8	26.2	1.9	5.7	42.2	38.7	46.0	3.8	7.3
7.	404.99	BB	36.8	29.1	17.4	27.0	2.5	5.8	35.5	27.8	46.0	10.5	18.2
8.	540.00	BB	31.0	35.1	18.7	27.7	2.8	5.8	30.6	34.7	46.0	15.4	11.3
9.	728.98	BB	29.1	27.1	20.0	27.5	3.6	5.8	31.0	29.0	46.0	15.0	17.0

CALCULATION: READING[dB μ V] + ANT. FACTOR[dB/m] + CABLE LOSS[dB] - AMP. GAIN[dB] + ATTEN[dB].

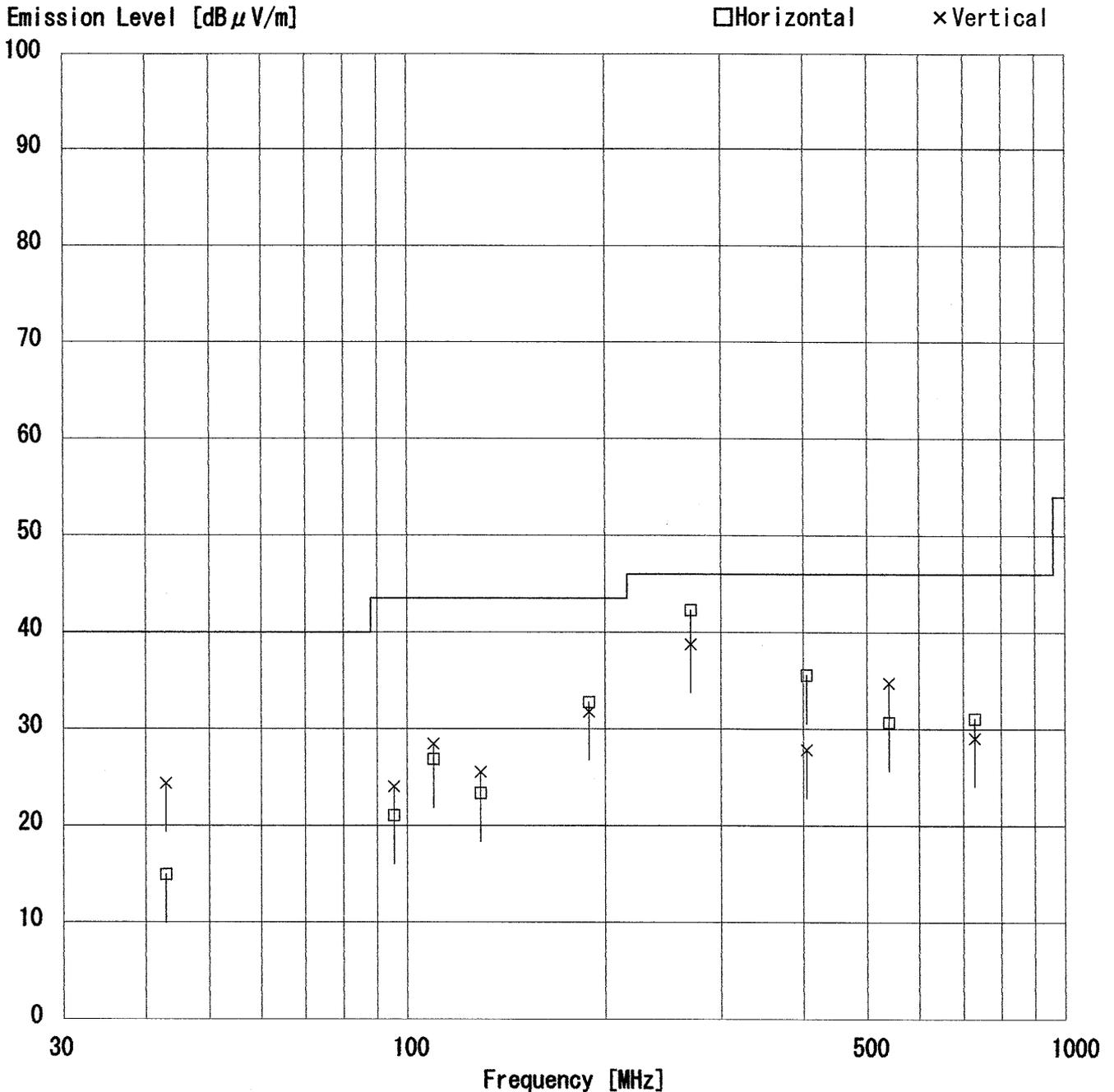
All other spurious emissions were less than 20dB for the limit.

# DATA OF RADIATION TEST

A-Pex International Co., Ltd.  
No.2 SEMI ANECHOIC CHAMBER  
Report No. : 23CE0075-H0

Applicant : Sony Corporation  
 Kind of Equipment : Digital Video Camera Recorder  
 Model No. : DCR-TRV80  
 Serial No. : 111  
 Power : AC120V/60Hz  
 Mode : Tx (2402MHz)  
 Remarks : Ver. A  
 Date : 11/15/2002  
 Test Distance : 3 m  
 Temperature : 22 °C  
 Humidity : 38 %  
 Regulation : FCC § 15.247 (C)

*S. Umeyama*  
 Engineer : Hiroka Umeyama



# DATA OF RADIATION TEST

A-Pex International Co., Ltd.  
No.2 SEMI ANECHOIC CHAMBER  
Report No. : 23CE0075-H0

Applicant : Sony Corporation  
Kind of Equipment : Digital Video Camera Recorder  
Model No. : DCR-TRV80  
Serial No. : 111  
Power : AC120V/60Hz  
Mode : Tx (2441MHz)  
Remarks : Ver. A  
Date : 11/15/2002  
Test Distance : 3 m  
Temperature : 22 °C  
Humidity : 38 %  
Regulation : FCC § 15. 247 (C)

  
Engineer : Hiroka Umeyama

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.	42.95	BB	20.7	31.7	13.5	27.4	0.7	5.8	13.3	24.3	40.0	26.7	15.7
2.	95.49	BB	28.2	34.5	9.6	26.9	1.1	5.8	17.8	24.1	43.5	25.7	19.4
3.	109.62	BB	34.8	34.7	11.7	26.8	1.2	5.8	26.7	26.6	43.5	16.8	16.9
4.	129.29	BB	29.0	29.8	13.8	26.7	1.2	5.8	23.1	23.9	43.5	20.4	19.6
5.	188.99	BB	31.1	31.3	17.0	26.1	1.6	5.8	29.4	29.6	43.5	14.1	13.9
6.	270.00	BB	42.7	38.5	18.8	26.2	1.9	5.7	42.9	38.7	46.0	3.1	7.3
7.	350.99	BB	37.8	28.8	15.9	26.6	2.2	5.7	35.0	26.0	46.0	11.0	20.0
8.	540.00	BB	32.2	35.3	18.7	27.7	2.8	5.8	31.8	34.9	46.0	14.2	11.1
9.	728.98	BB	28.4	25.1	20.0	27.5	3.6	5.8	30.3	27.0	46.0	15.7	19.0

CALCULATION: READING[dB μ V] + ANT. FACTOR[dB/m] + CABLE LOSS[dB] - AMP. GAIN[dB] + ATTEN[dB].

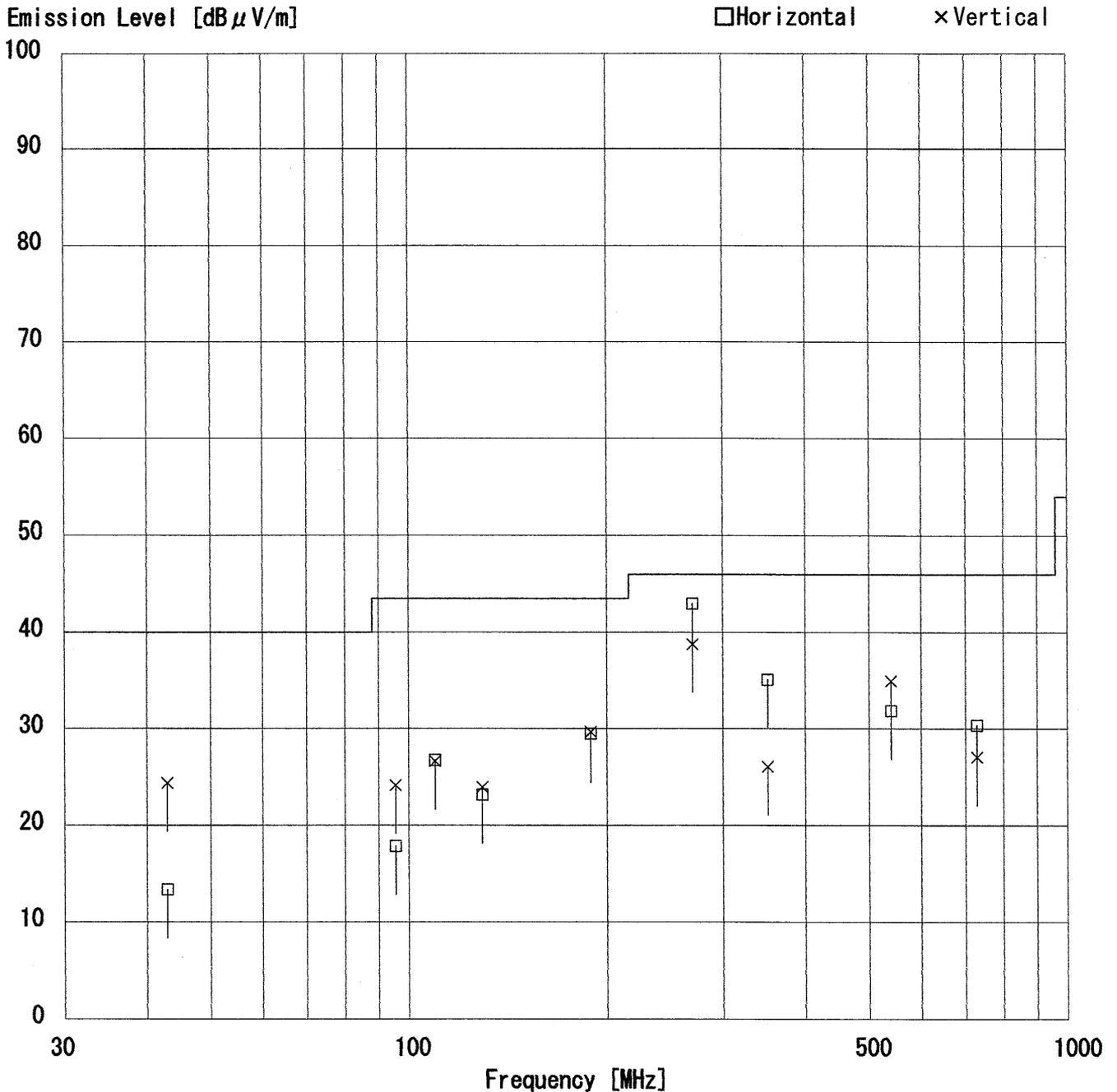
All other spurious emissions were less than 20dB for the limit.

# DATA OF RADIATION TEST

A-Pex International Co., Ltd.  
No.2 SEMI ANECHOIC CHAMBER  
Report No. : 23CE0075-H0

Applicant : Sony Corporation  
Kind of Equipment : Digital Video Camera Recorder  
Model No. : DCR-TRV80  
Serial No. : 111  
Power : AC120V/60Hz  
Mode : Tx (2441MHz)  
Remarks : Ver. A  
Date : 11/15/2002  
Test Distance : 3 m  
Temperature : 22 °C  
Humidity : 38 %  
Regulation : FCC § 15. 247 (C)

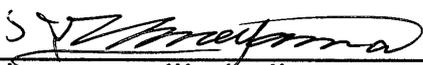
  
Engineer : Hiroka Umeyama



# DATA OF RADIATION TEST

A-Pex International Co., Ltd.  
No.2 SEMI ANECHOIC CHAMBER  
Report No. : 23CE0075-H0

Applicant : Sony Corporation  
Kind of Equipment : Digital Video Camera Recorder  
Model No. : DCR-TRV80  
Serial No. : 111  
Power : AC120V/60Hz  
Mode : Tx (2480MHz)  
Remarks : Ver. A  
Date : 11/15/2002  
Test Distance : 3 m  
Temperature : 22 °C  
Humidity : 38 %  
Regulation : FCC § 15.247 (C)

  
Engineer : Hiroka Umeyama

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μV/m]	MARGIN	
			HOR [dB μV]	VER					HOR [dB μV/m]	VER		HOR [dB]	VER
1.	42.95	BB	21.2	32.8	13.5	27.4	0.7	5.8	13.8	25.4	40.0	26.2	14.6
2.	95.49	BB	28.1	34.1	9.6	26.9	1.1	5.8	17.7	23.7	43.5	25.8	19.8
3.	109.62	BB	32.8	34.3	11.7	26.8	1.2	5.8	24.7	26.2	43.5	18.8	17.3
4.	129.29	BB	28.6	31.5	13.8	26.7	1.2	5.8	22.7	25.6	43.5	20.8	17.9
5.	270.00	BB	42.1	39.3	18.8	26.2	1.9	5.7	42.3	39.5	46.0	3.7	6.5
6.	350.99	BB	38.0	29.1	15.9	26.6	2.2	5.7	35.2	26.3	46.0	10.8	19.7
7.	472.49	BB	31.0	32.4	18.2	27.4	2.7	5.8	30.3	31.7	46.0	15.7	14.3
8.	540.00	BB	32.4	32.0	18.7	27.7	2.8	5.8	32.0	31.6	46.0	14.0	14.4
9.	998.98	BB	26.4	30.1	22.8	26.3	4.2	5.7	32.8	36.5	54.0	21.2	17.5

CALCULATION: READING[dB μV] + ANT. FACTOR[dB/m] + CABLE LOSS[dB] - AMP. GAIN[dB] + ATTEN[dB].

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