



# FCC ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT CERTIFICATION TO FCC PART 15 REQUIREMENTS

for

**INTENTIONAL RADIATOR**

of

**Car Alarm Transmitter**

**FCC ID Number : OUTST9**

**Trade Name : N/A**

**Model Number : WT400**

**Agency Series : N/A**

**Report Number : 41014407-RP**

**Date : March 8, 2005**

Prepared to :

**Street Smart Security, Inc.**

**12925 Brook Printer Place, Suite 410, Poway,**

**California, United States, 92064**

Prepared by :

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1. VERIFICATION OF COMPLIANCE

COMPANY NAME : Street Smart Security, Inc.  
12925 Brook Printer Place, Suite 410, Poway,  
California, United States, 92064

CONTACT PERSON : Michael Lamb / President

TELEPHONE NO. : (886-2) 2918-9478

EUT DESCRIPTION : Car Alarm Transmitter

MODEL NAME/NUMBER : WT400

FCC ID : OUTST9

DATE TESTED : January 31, 2005 & February 14, 2005

REPORT NUMBER : 41014407-RP

TYPE OF EQUIPMENT	SECURITY EQUIPMENT (INTENTIONAL RADIATOR)
EQUIPMENT TYPE	433.92 MHz Car Alarm Transmitter
MEASUREMENT PROCEDURE	ANSI 63.4 / 2003
LIMIT TYPE	CERTIFICATION
FCC RULE	CFR 47, PART 15

The above equipment was tested by Compliance Certification Services Inc. for compliance with the requirements set forth in the FCC CFR 47, PART 15. The results of testing in this report apply to the product/system which was tested only. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties. **Warning:** This document reports conditions under which testing was conducted and results of tests performed. This document may not be altered or revised in any way unless done so by Compliance Certification Services Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by Compliance Certification Services Inc. will constitute fraud and shall nullify the document.

Approved by:

Reviewed by:

David Wang  
Manager of Hsintien Laboratory  
Compliance Certification Services Inc.

Vince Chiang  
Section Manager of Hsintien Laboratory  
Compliance Certification Services Inc.



## 2. PRODUCT DESCRIPTION

Fundamental Frequency	<b>433.92 MHz</b>
Power Source	<b>3V Battery</b>
Transmitting Time	<b>Periodic <math>\leq</math> 5 seconds</b>
Associated Receiver	<b>Model: LT400 (DoC)</b>

## 3. TEST FACILITY

The open area test sites and conducted measurement facilities used to collect the radiated data are located at No. 81-1, Lane 210, Bade Rd. 2, Luchu Hsiang, Taoyuan Hsien, Taiwan, R.O.C. The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 22.

## 4. MEASUREMENT STANDARDS

The site is constructed and calibrated in conformance with the requirements of ANSI C63.4/2003.

## 5. TEST METHODOLOGY

For an intentional radiator, the spectrum shall be investigated from the lowest radio frequency signal generated in the device, without going below 9 KHz, up to at least the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower. (CFR 47 Section 15.33)

**6. MEASUREMENT EQUIPMENT USED**

Open Area Test Site # J				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
SITE NSA	CCS	J Site	N/A	09/18/2005
MEASURE RECEIVER	SCHAFFNER	SCR3501	330	06/27/2005
SPECTRUM ANALYZER	ADVANTEST	R3132	120900003	No Calibration Required
ANTENNA	SCHAFFNER	CBL 6112B	2800	09/25/2005
PRE-AMPLIFIER	SCHAFFNER	CPA9231A	3629	10/08/2005
CABLE	BELDEN	9913	N-TYPE #J1	10/08/2005
ATTENUATOR	MCL	UNAT-6	AT06-8	12/03/2005
THERMO-HYGRO METER	TFA	N/A	NO.3	11/09/2005

EQUIPMENTTYPE	MFR	MODEL NUMBER	SERIAL NUMBER	CAL. DUE
EMC ANALYZER (100Hz-22GHz)	HP	8566B	2937A06102	07/26/2005
ANTENNA (1-18GHz)	EMCO	3115	5761	01/17/2006
AMPLIFIER (1-26.5GHz)	HP	8449B	3008A01266	02/15/2005
CABLE (1-18GHz)	JYEBAO HUBER+SUHNER	LL142 SUCOFLEX 104	SMA-RS1&2 SMA-RS3	02/15/2005

*Remark: Each piece of equipment is scheduled for calibration once a year.*

**7. POWERLINE RFI LIMIT**

CONNECTED TO AC POWER LINE	SECTION 15.207
CARRIER CURRENT SYSTEM IN THE FREQUENCY RANGE OF 450 KHz TO 30 MHz	SECTION 15.205 AND SECTION 15.209, 15.221, 15.223, 15.225 OR 15.227, AS APPROPRIATE.
BATTERY POWER	NO REQUIRED.

### 8. RADIATED EMISSION LIMITS

GENERAL REQUIREMENTS	SECTION 15.209
RESTRICTED BANDS OF OPERATION	SECTION 15.205
PERIODIC OPERATION IN THE BAND 40.66 -40.70 MHz AND ABOVE 70 MHz.	SECTION 15.231

### 9. SYSTEM TEST CONFIGURATION

Use a block of foam and combined it with EUT wrapping rubber band around it. This way it can test X, Y and Z axis. To activate continuous transmitting & receiving, place a small plastic block between rubber band and EUT push button.

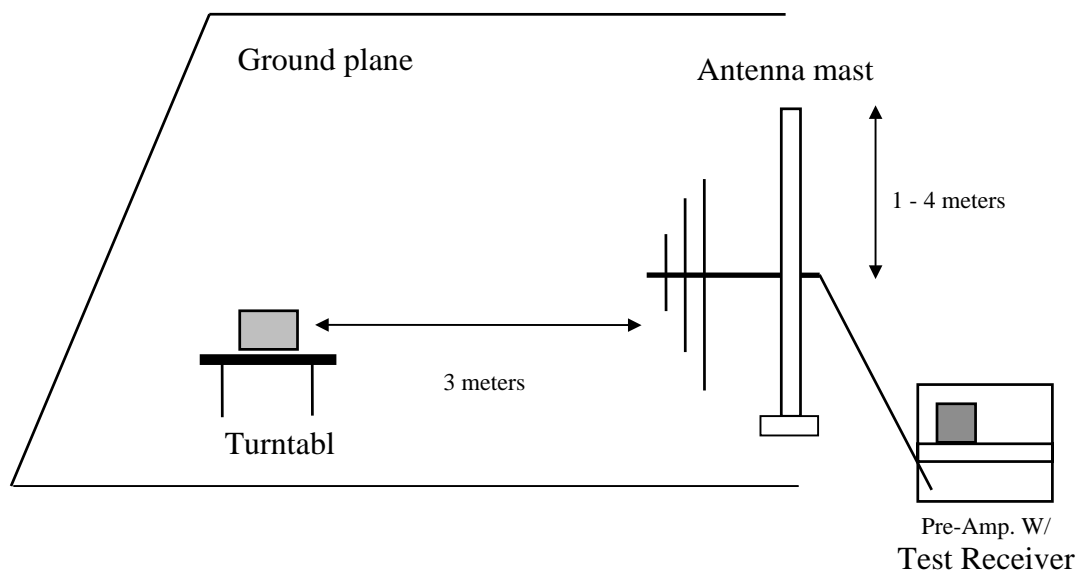


**Radiated Open Site Test Set-up**

## 10. TEST PROCEDURE

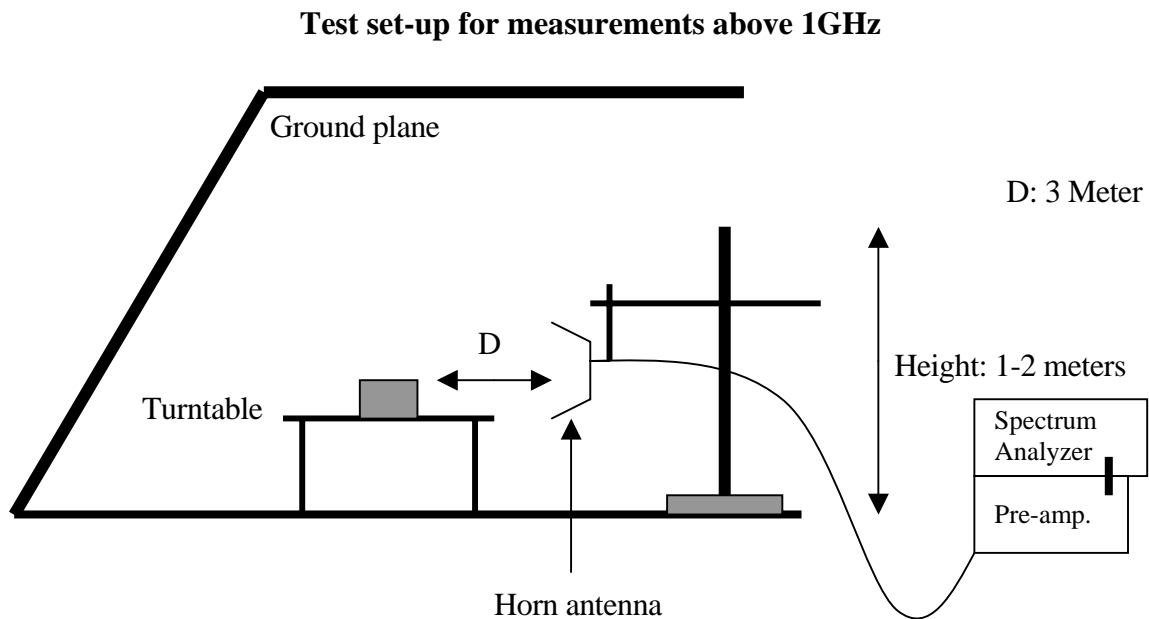
### Radiated Emissions, 15.231(4)(b)

#### Test Set-up for frequency range 30 – 1000 MHz



**Fig. 1**

1. The EUT was placed on a wooden table on the outdoor ground plane. The search antenna was placed 3-meters from the EUT.
2. The turntable was slowly rotated to locate the direction of maximum emission at each emission falling in the restricted bands of 15.205. The EUT was moved throughout the XY, XZ, and YZ planes to maximize emissions received by the search antenna.
3. Once maximum direction was determined, the search antenna was raised and lowered in both vertical and horizontal polarizations. The maximum readings so obtained are recorded in the data listed below.



**Fig. 2**

1. The EUT was placed on a wooden table on the outdoor ground plane. The search antenna was placed 1-meters from the EUT. The EUT antenna was mounted vertically as per normal installation.
2. The turntable was slowly rotated to locate the direction of maximum emission at each emission falling in the restricted bands of 15.205. The EUT was moved throughout the XY, XZ, and YZ planes to maximize emissions received by the search antenna.
3. Once maximum direction was determined, the search antenna was raised and lowered in both vertical and horizontal polarizations. The maximum readings so obtained are recorded in the data listed below.

**11. Equipment Modifications**

To achieve compliance to FCC Section 15.231 technical limits, the following change(s) were made during compliance testing:

**NONE**





**12. TEST RESULT**

Powerline RFI Class B	Eut	Radiated Emission Limits	Eut
SECTION 15.207		SECTION 15.209	X
SECTION 15.205, 15.209, 15.221, 15.223, x 15.225 OR 15.227		SECTION 15.205	
BATTERY POWER	X	SECTION 15.231 (b)	X
		SECTION 15.231 (e)	

**12.1 Maximum Modulation Percentage (M%)**

CALCULATION:

Average Reading = Peak Reading (dBuV/m)+ 20log (Duty Cycle)

In order to determine possible Maximum Modulation percentage, alternations are made to the EUT.  
We measured:

	Tp (ms)	Ton (ms)	M% = (Ton/Tp)*100%	C.F. = 20*log(M%)
<b>Button#1</b>	108.75	38*0.750+41*0.337 = 42.32	42.32	-7.4697 dB
<b>Button#2</b>	110.17	38*0.787+42*0.375 = 45.65	45.65	-6.8112 dB
<b>Button#3</b>	110.25	43*0.787+36*0.375 = 47.34	47.34	-6.4954 dB
<b>Button#4</b>	110.22	35*0.750+44*0.375 = 42.75	42.75	-7.3813 dB
<b>Button#5</b>	110.25	36*0.787+43*0.375 = 44.46	44.46	-7.0412 dB
<b>Button#6</b>	110.25	37*0.787+42*0.375 = 44.87	44.87	-6.9611 dB

**12.2 The Emissions Bandwidth**

The bandwidth of the emissions were investigated per 15.231(c)

Frequency (MHz)	Botton#1 BW (kHz)	Botton#2 BW (kHz)	Botton#3 BW (kHz)	Botton#4 BW (kHz)	Botton#5 BW (kHz)	Botton#6 BW (kHz)	Limit (MHz)	Result
433.92	380.00	385.00	360.00	390.00	365.00	385.00	1.0848	PASS



## **APPENDIX I**

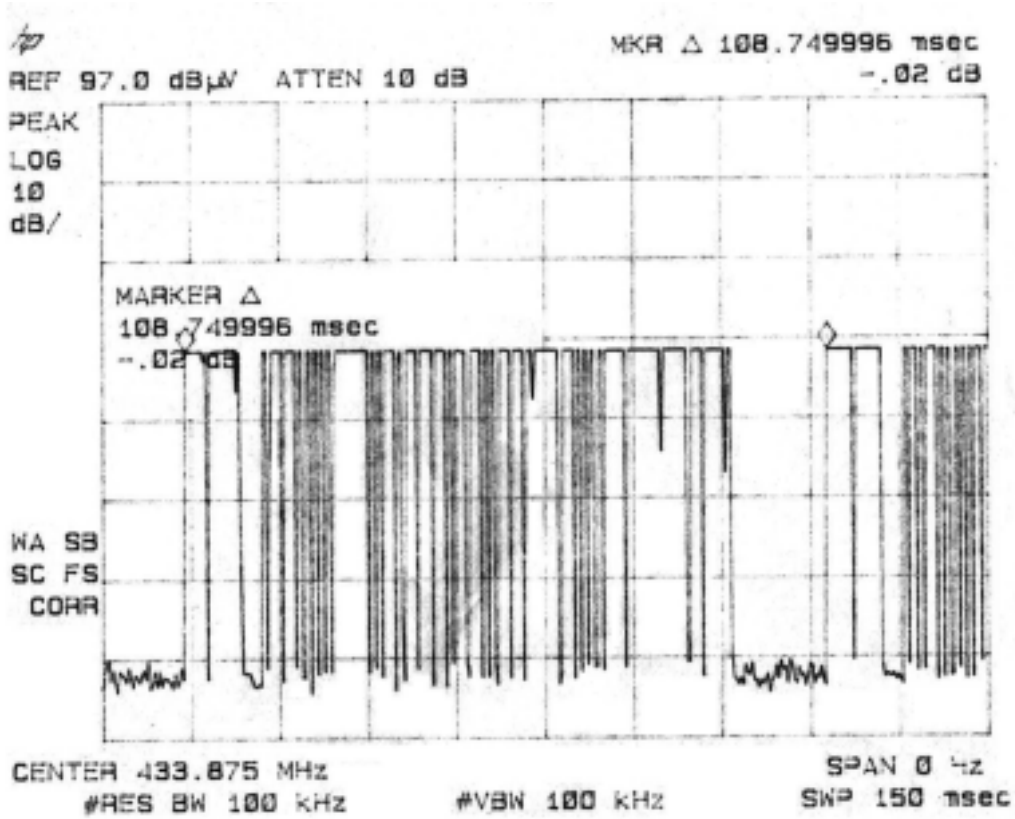
### **TEST DATA**



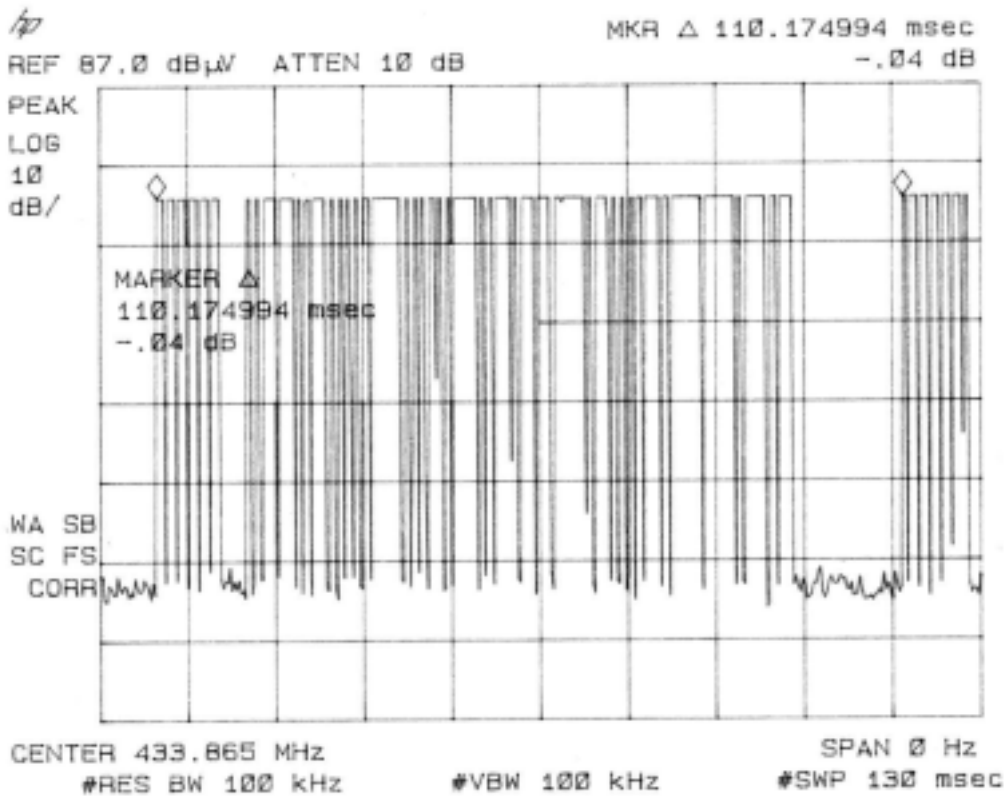
**Test Plot: Maximum Modulation Percentage (M%)**

**Tp**

**Button #1**

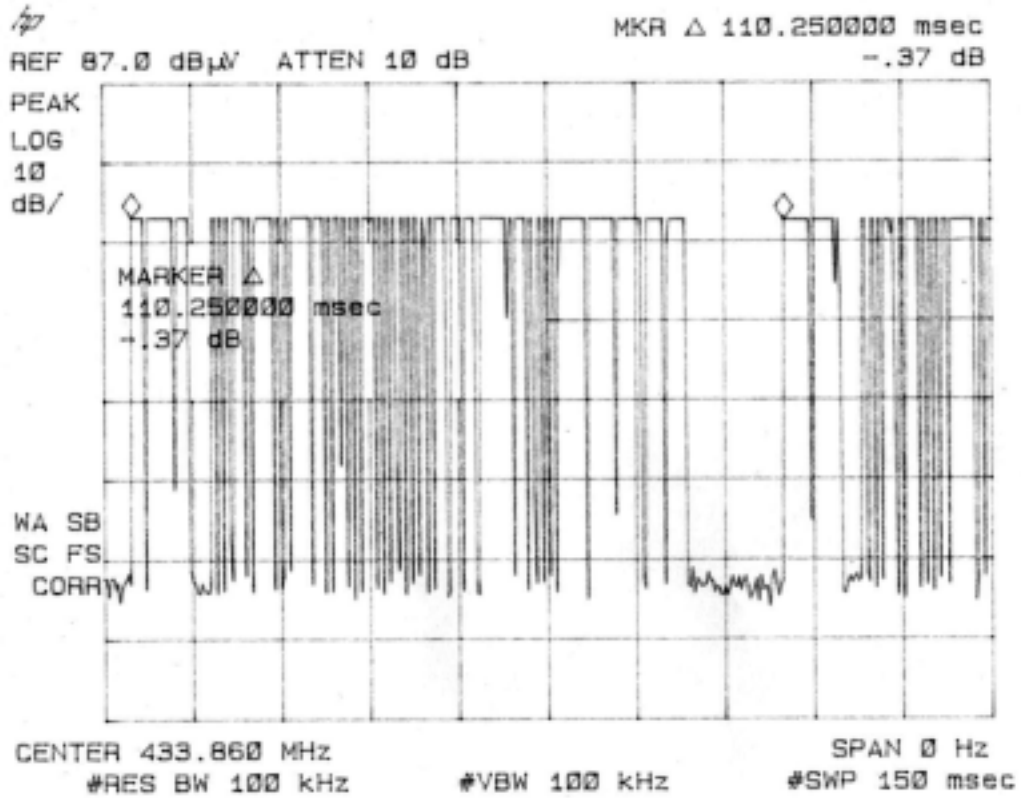


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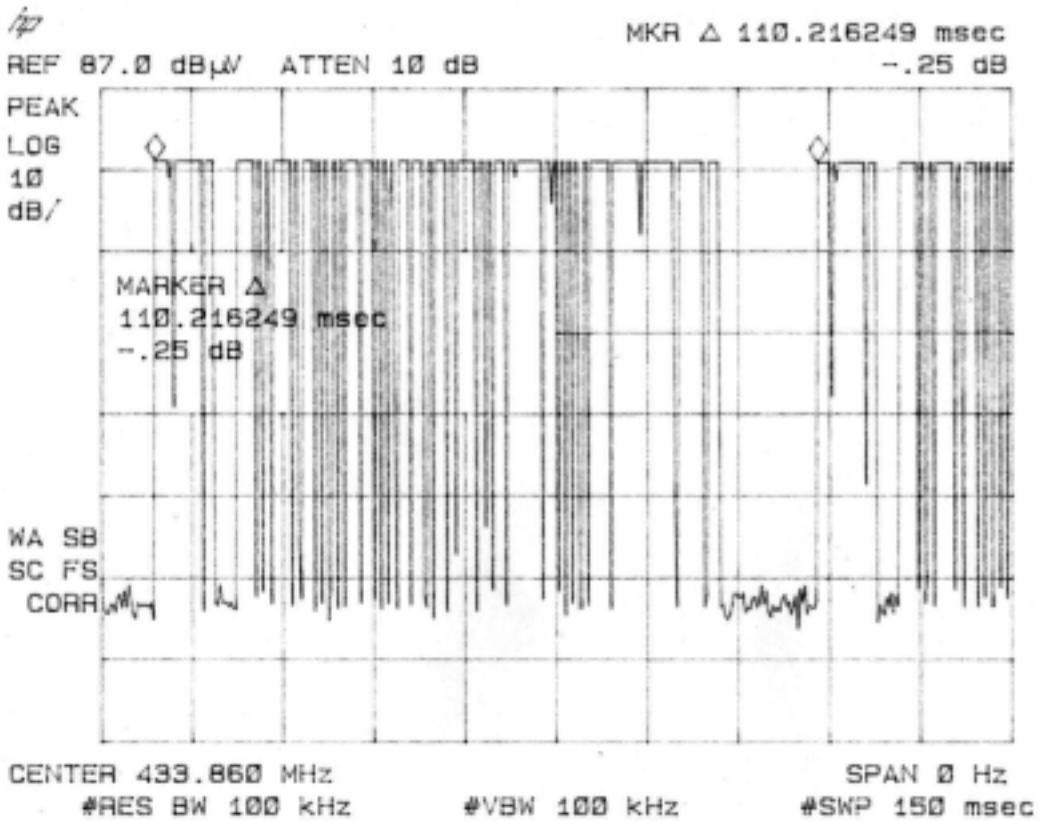




**Button #3**

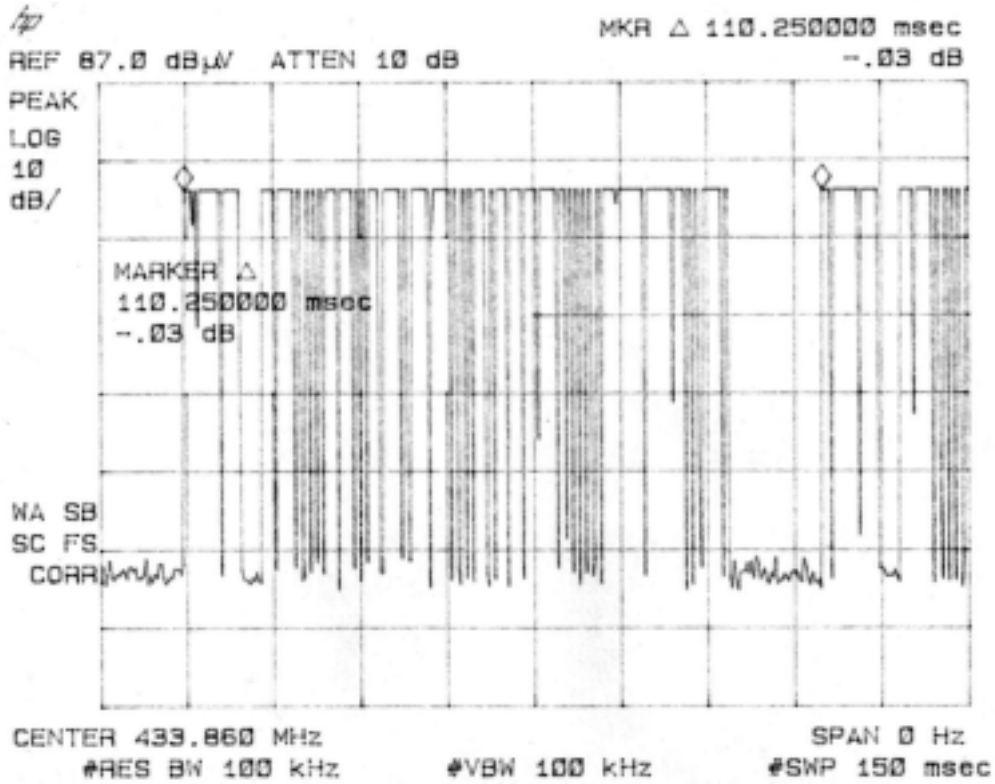


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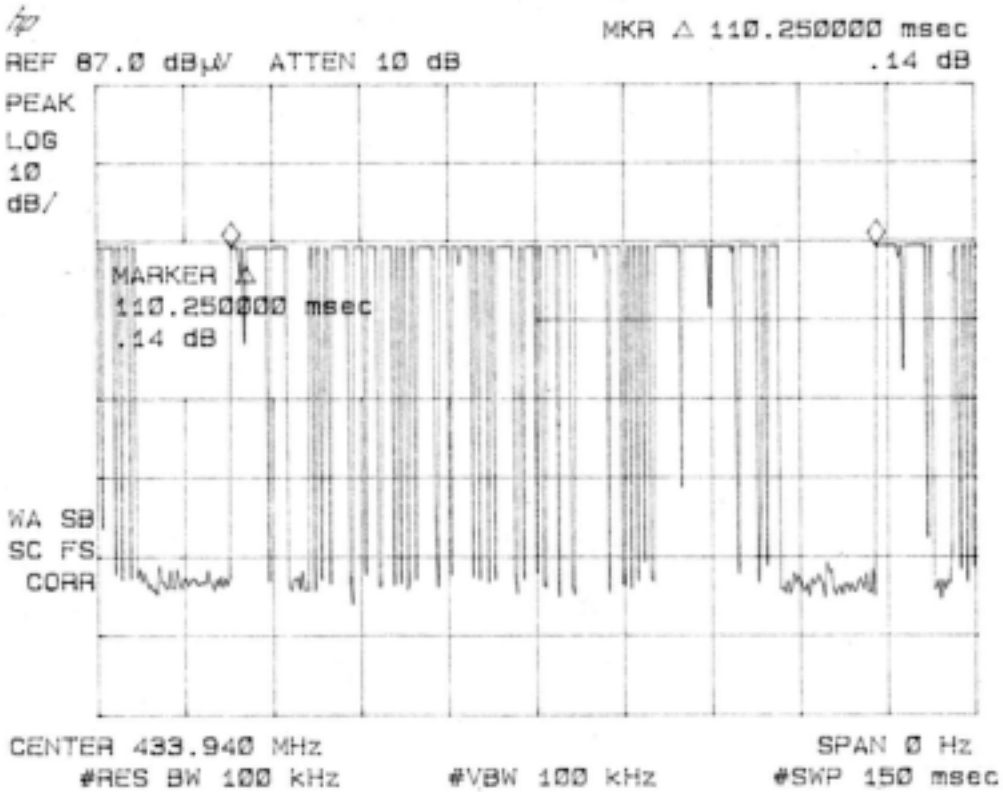




### Button #5



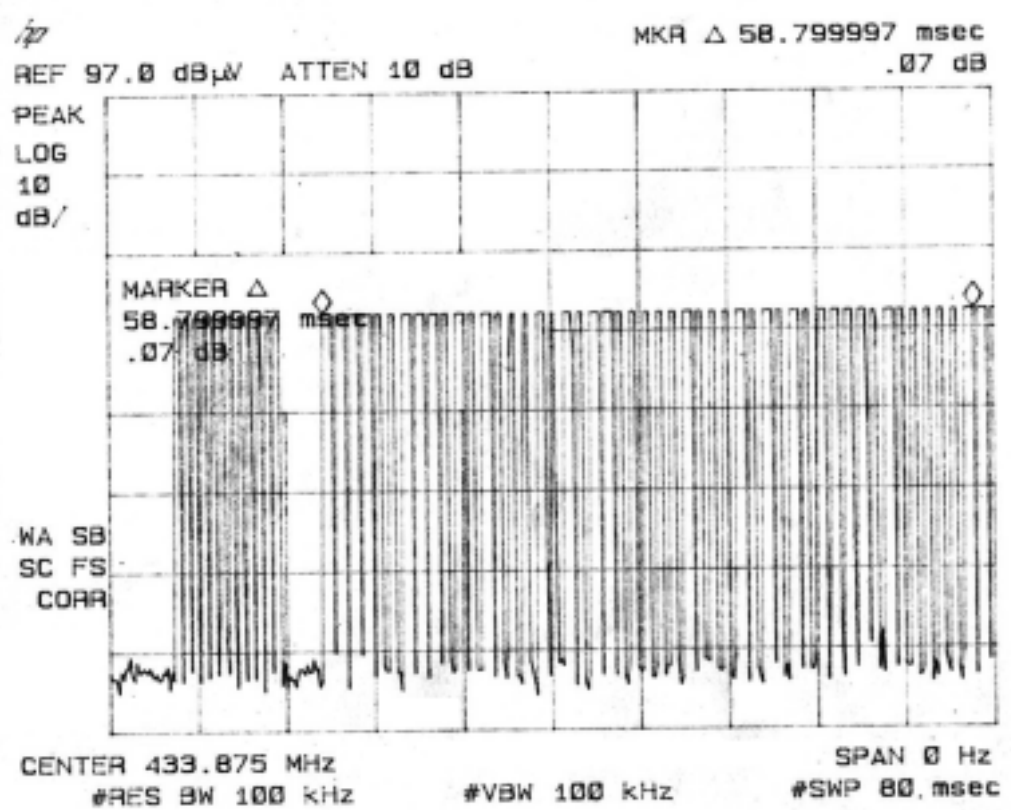
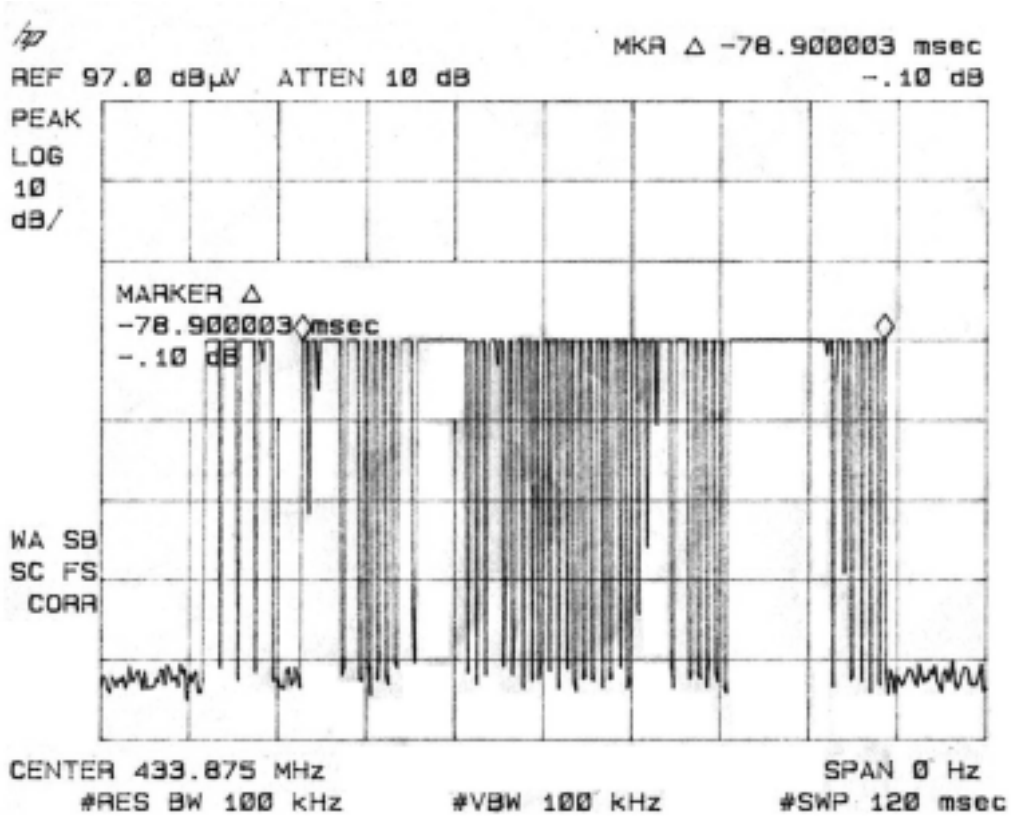
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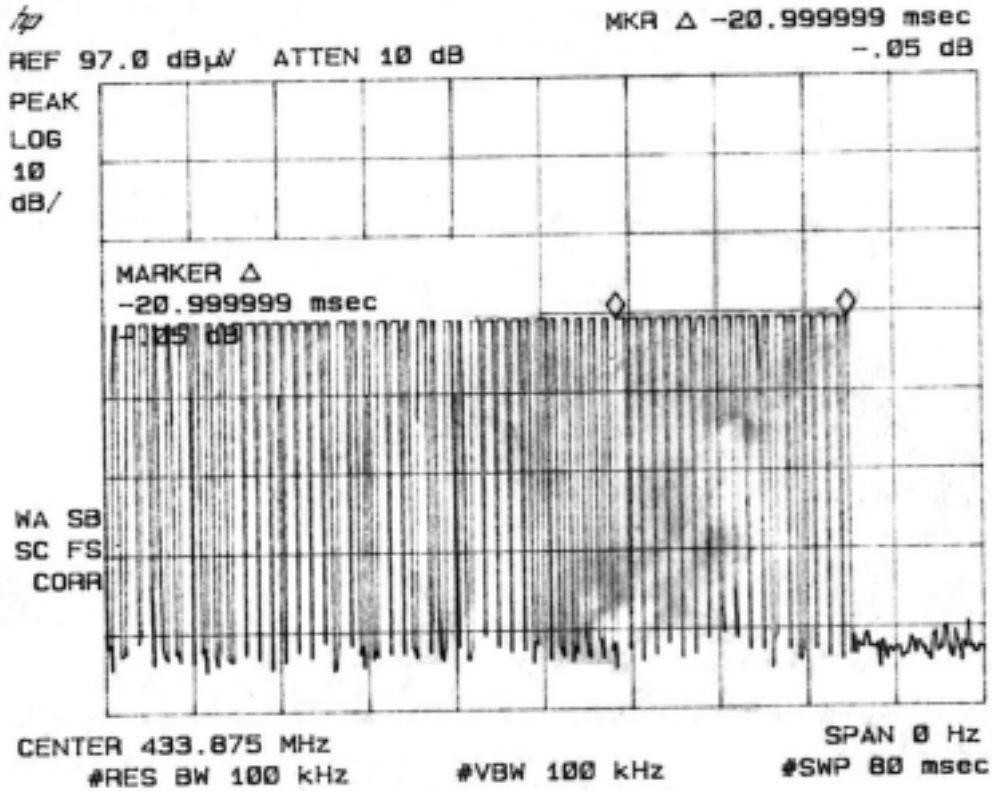




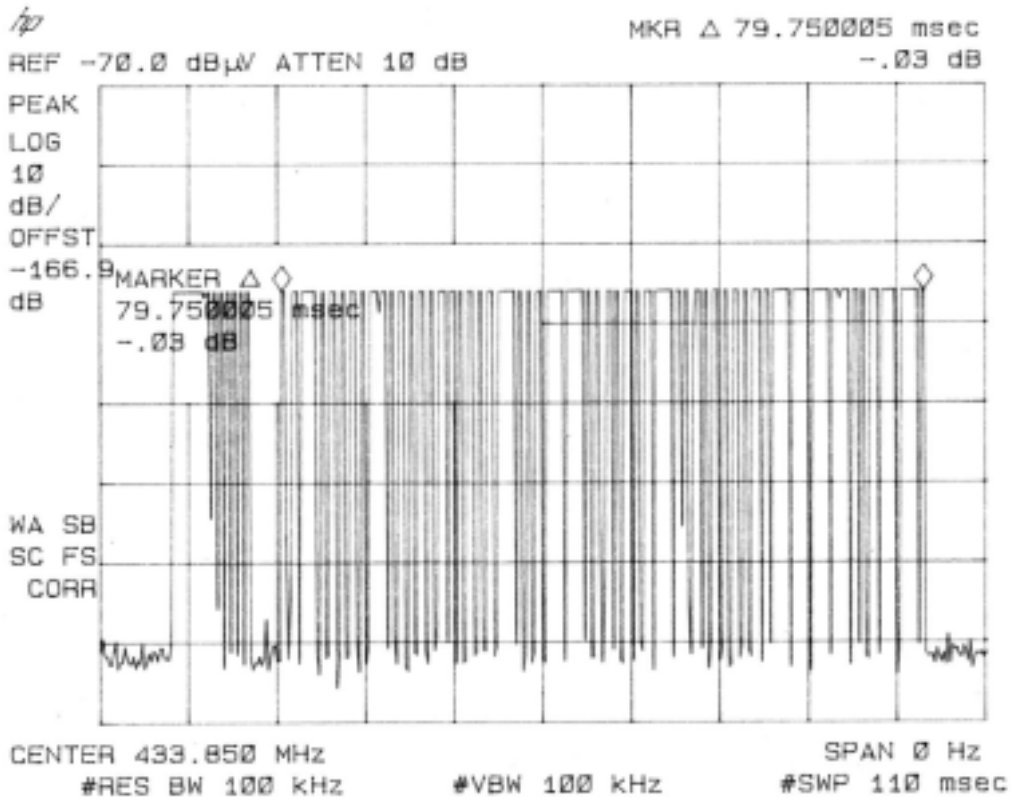
Channel Number

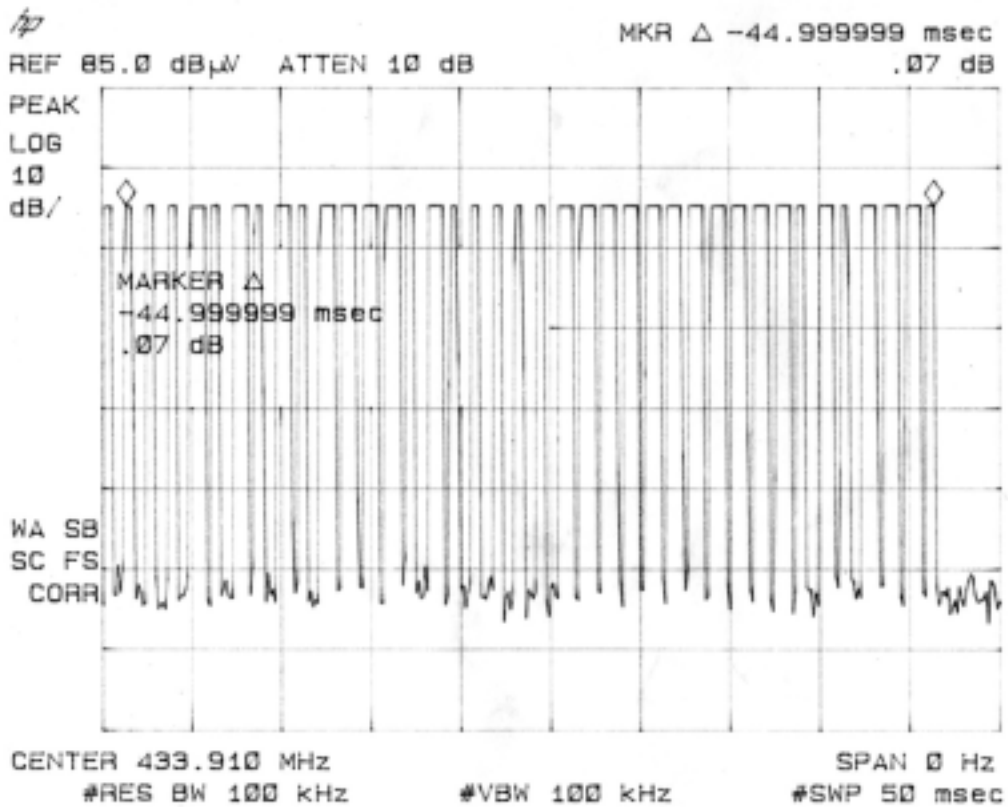
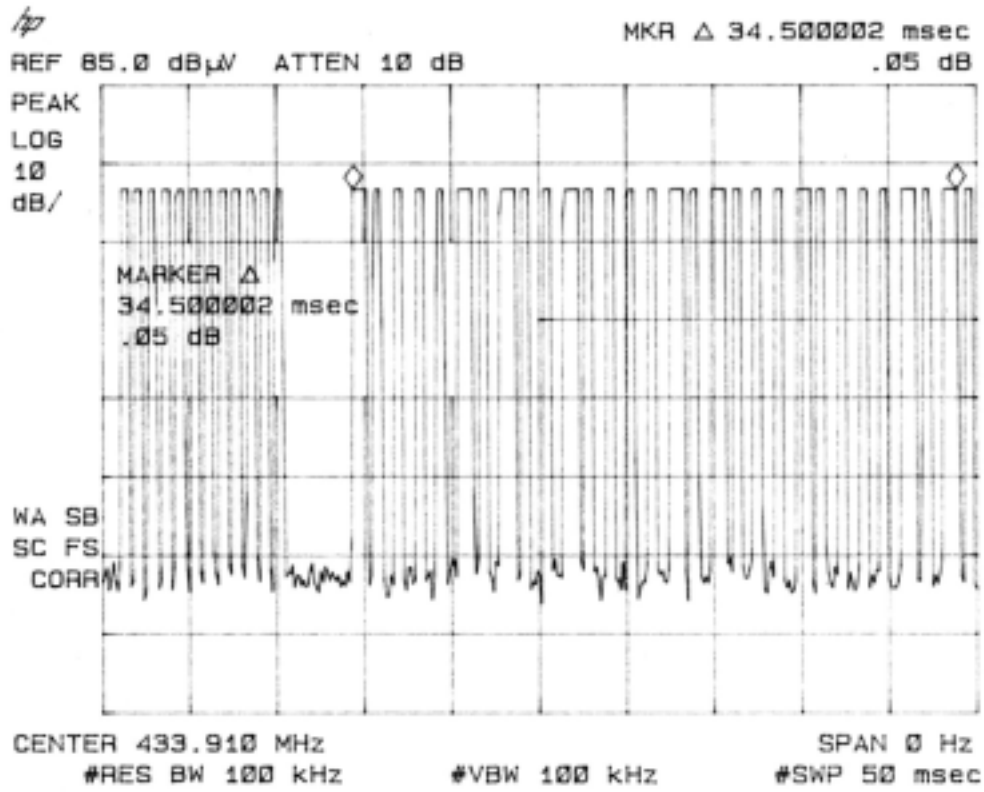
**Button #1**





Button #2

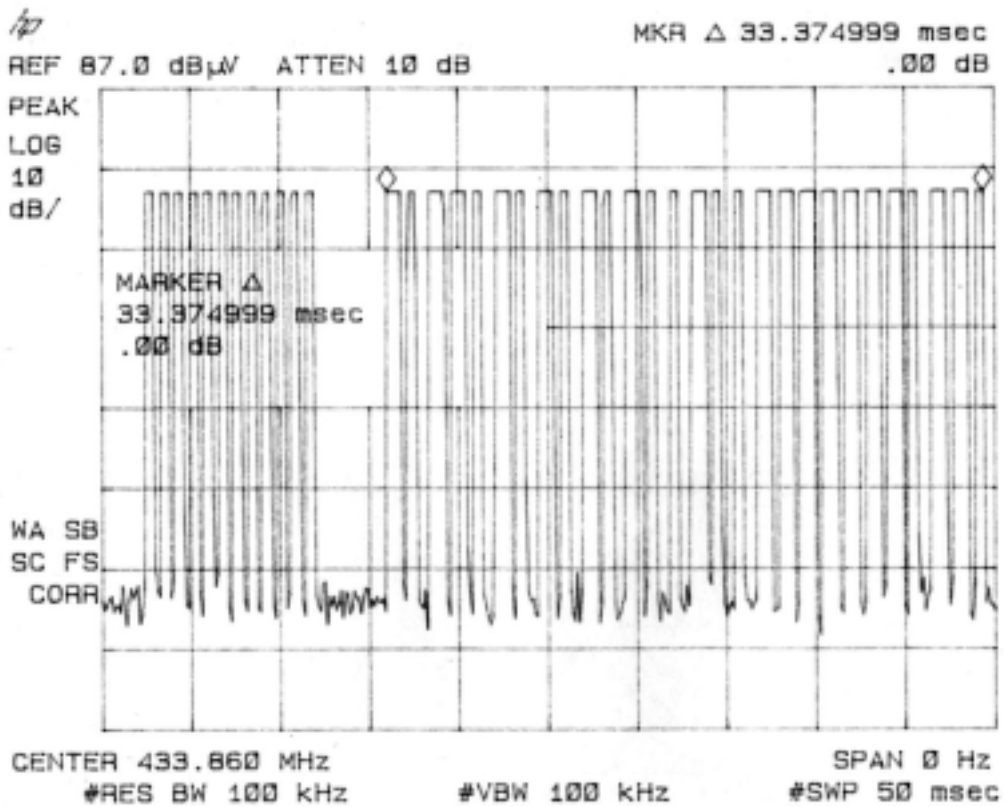
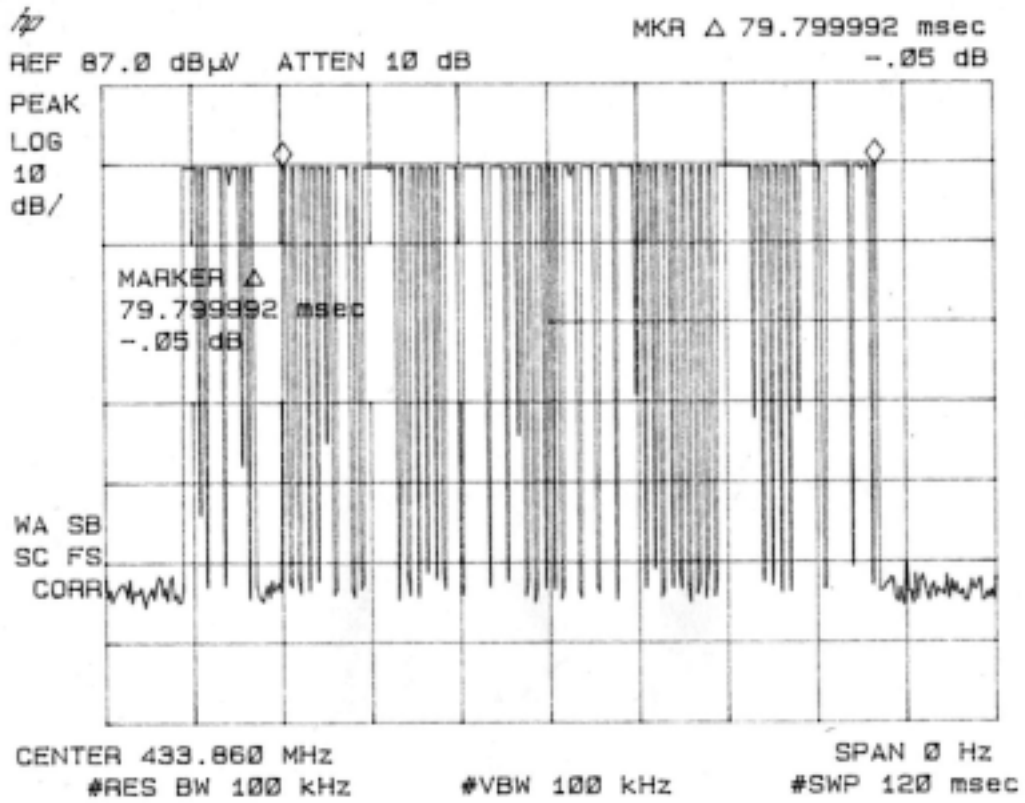


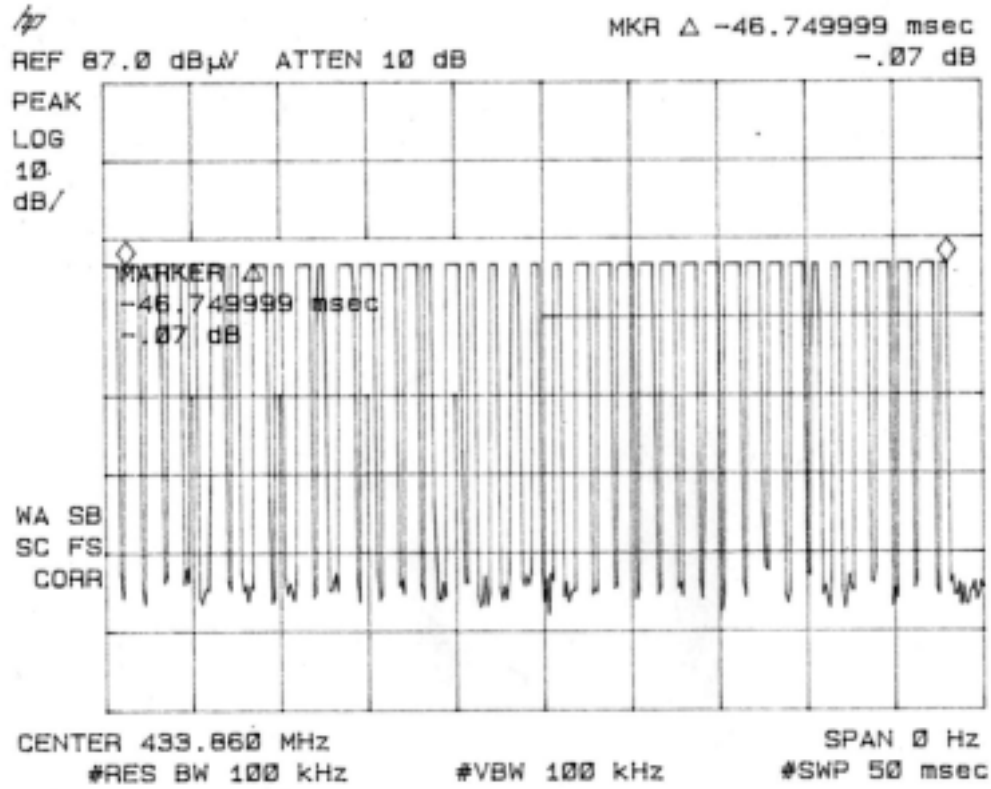




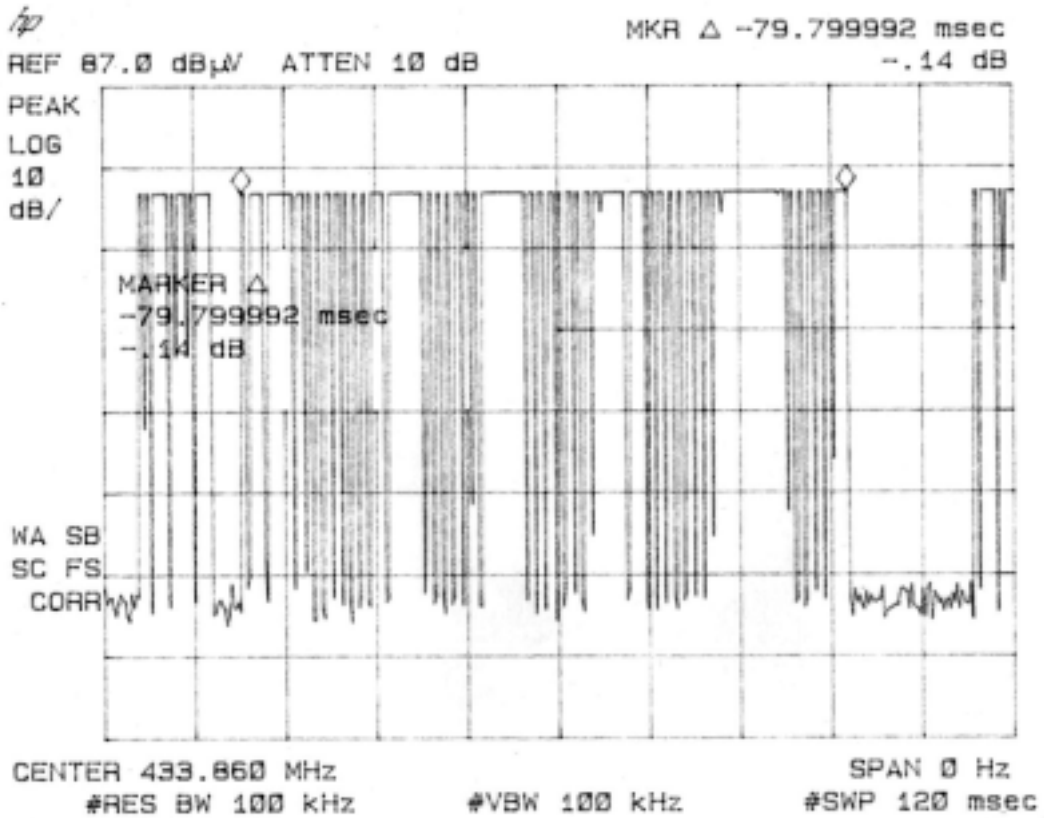


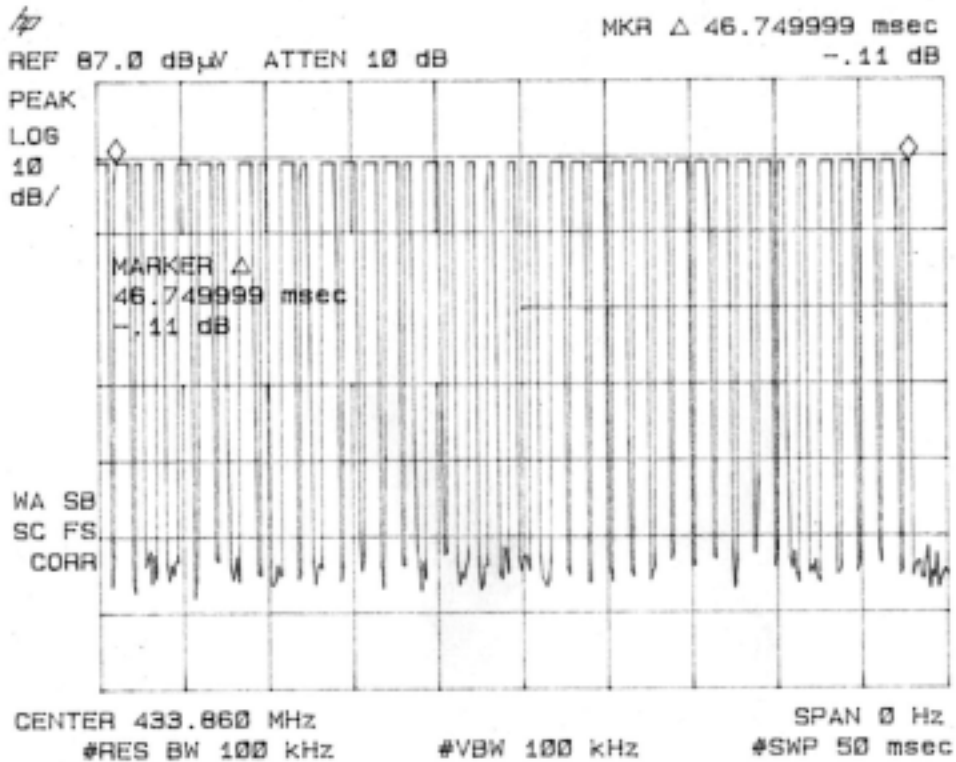
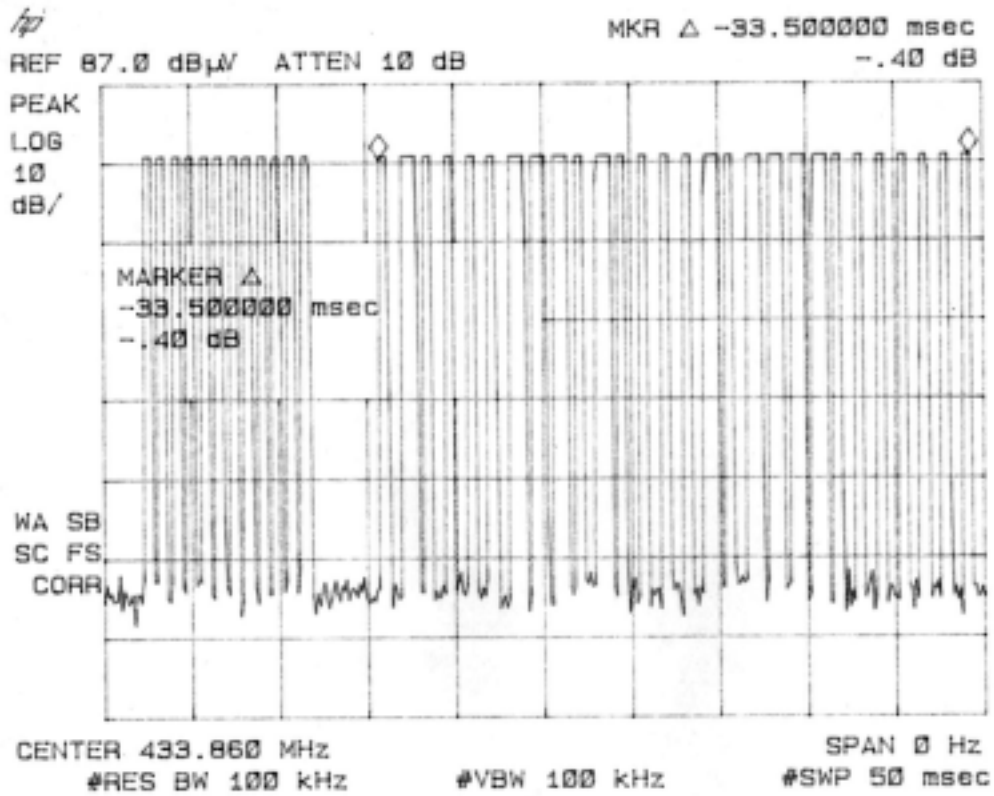
### Button #3





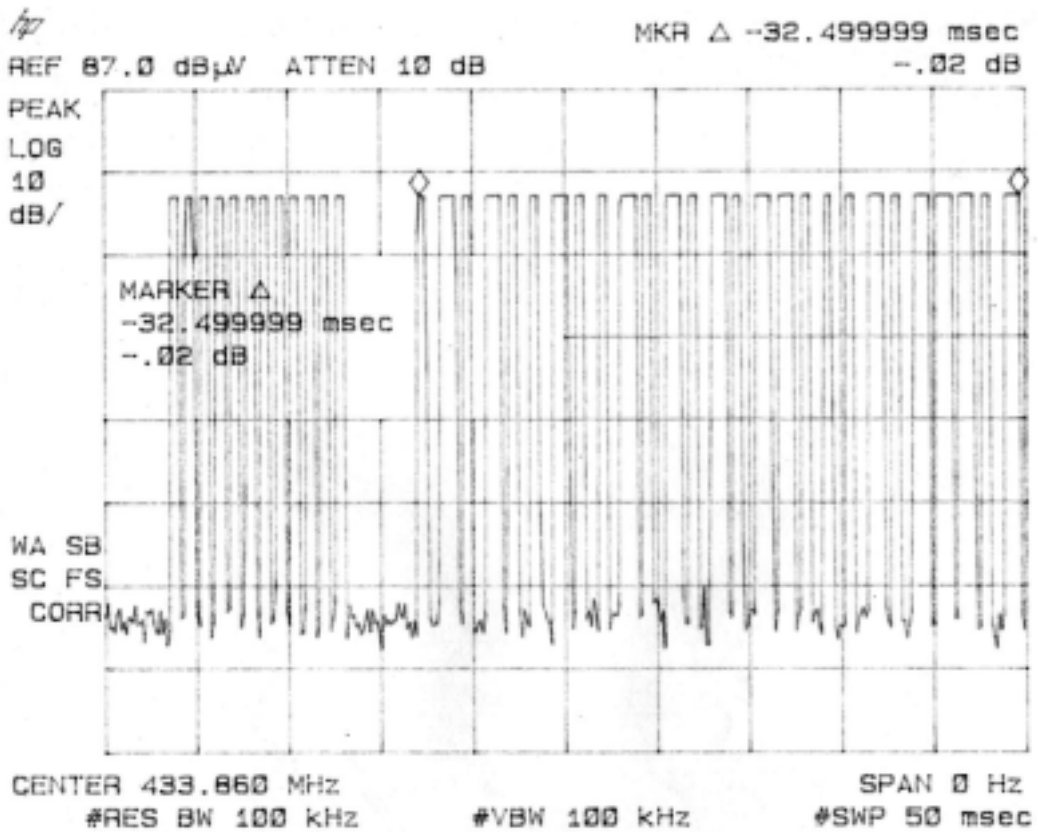
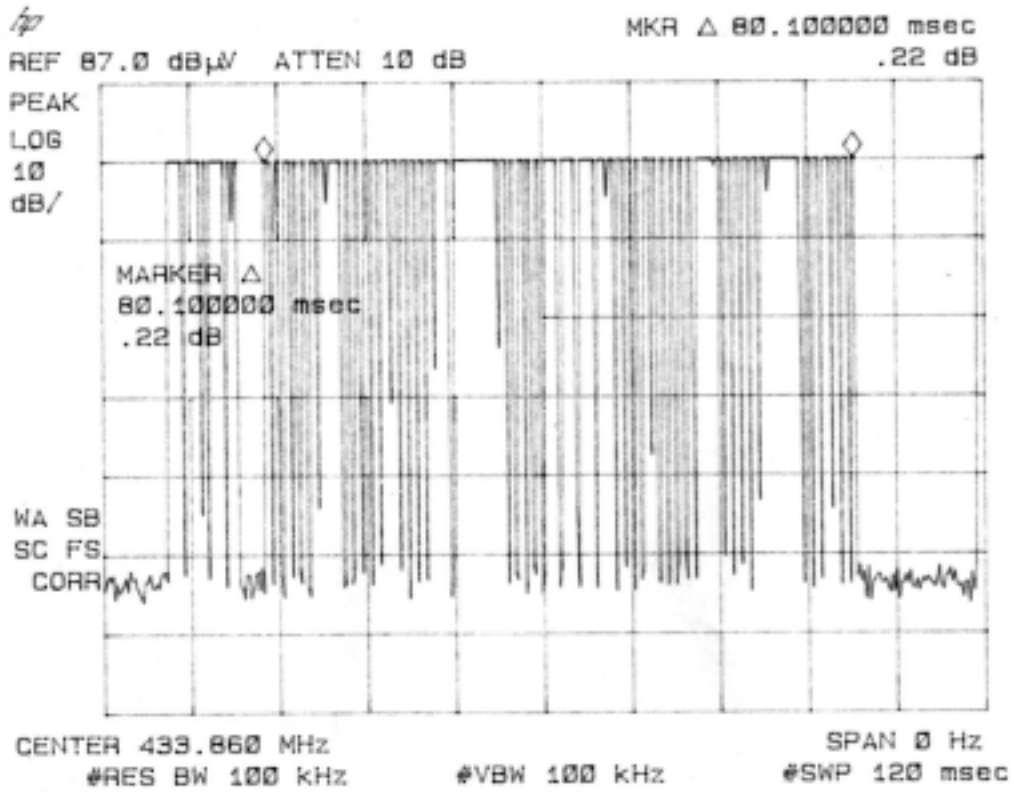
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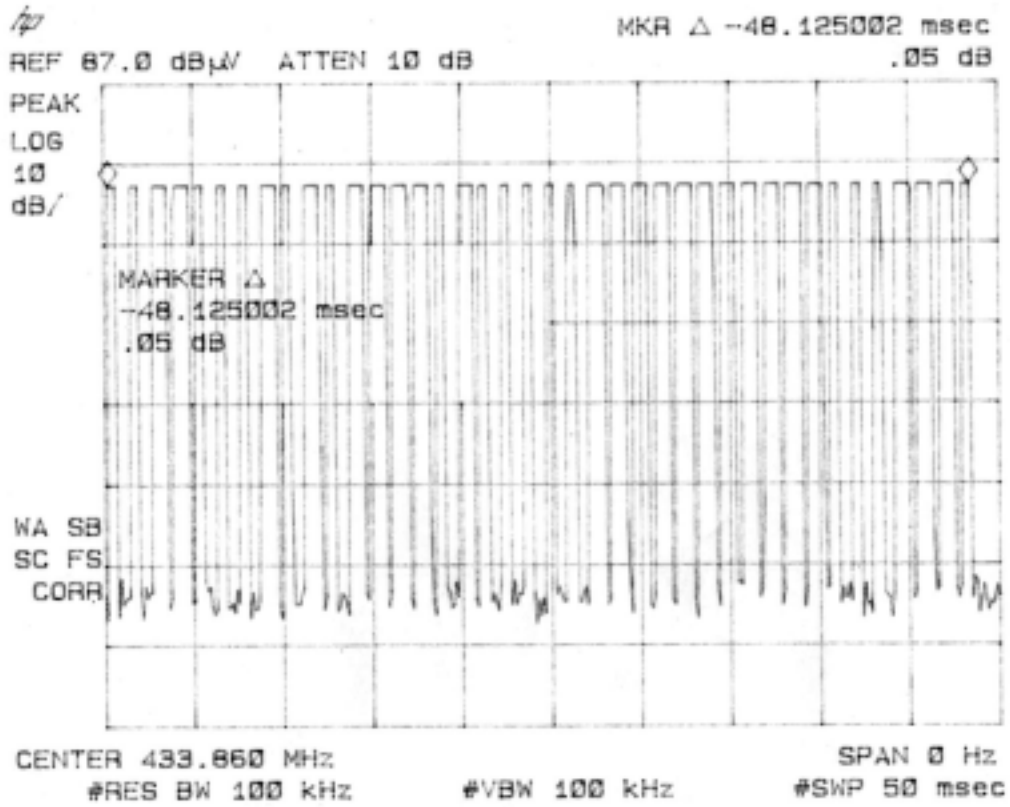




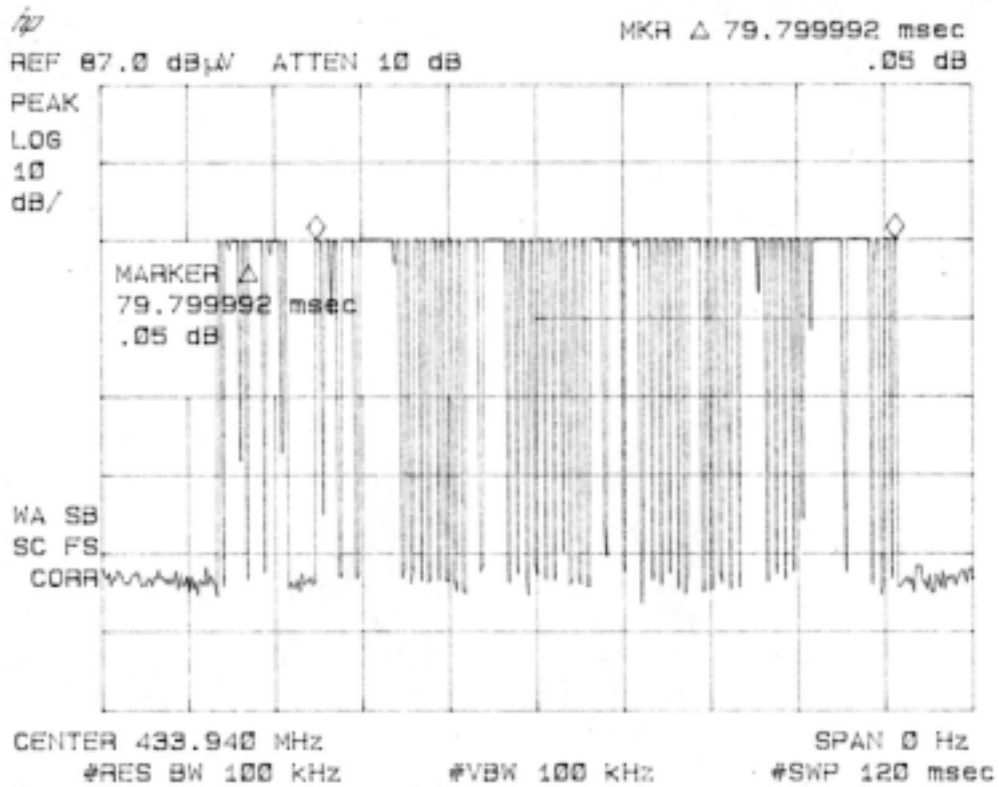


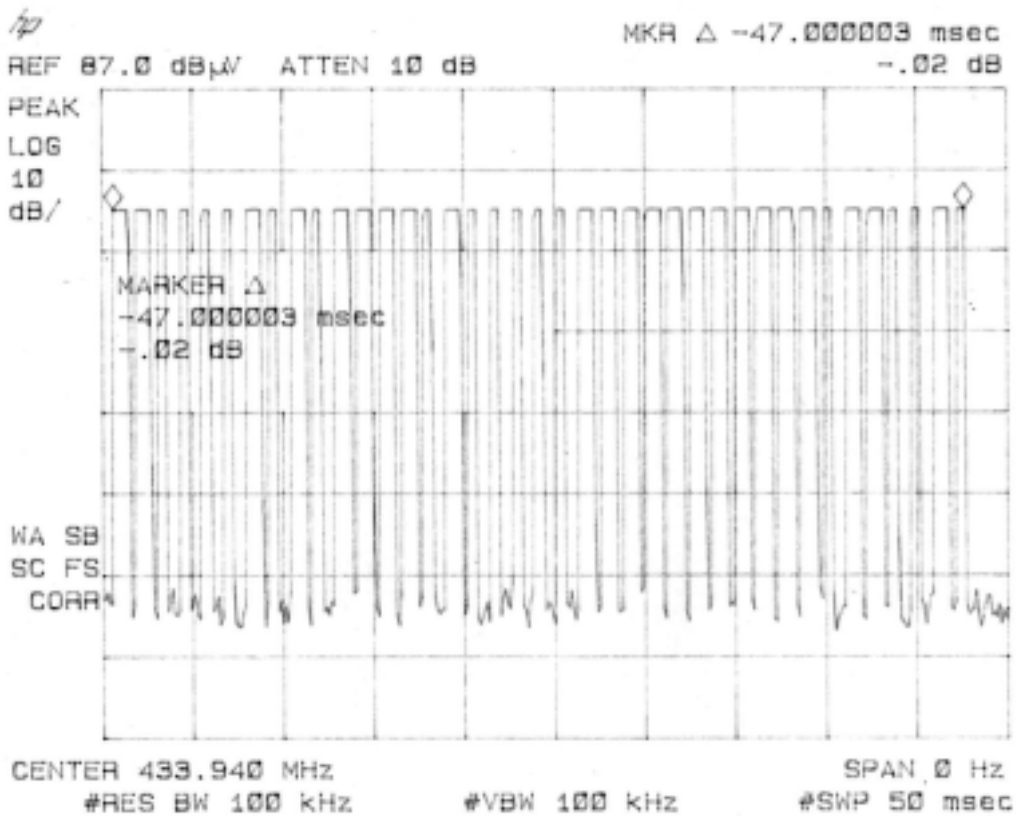
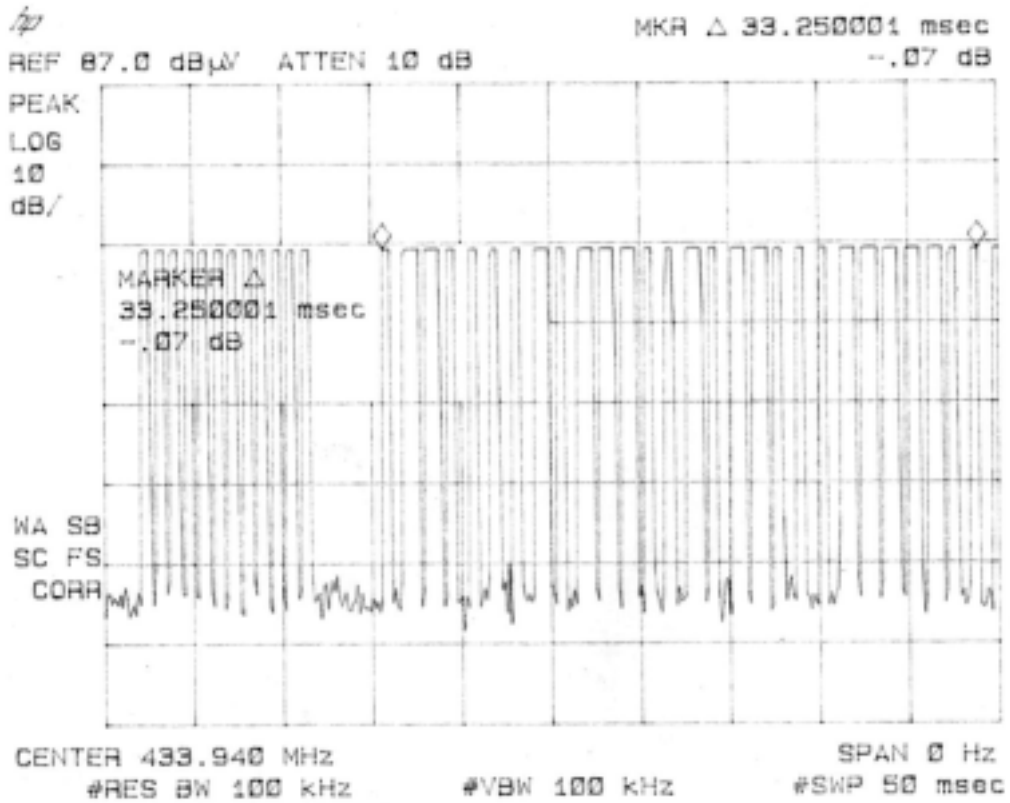
Button #5





Button #6

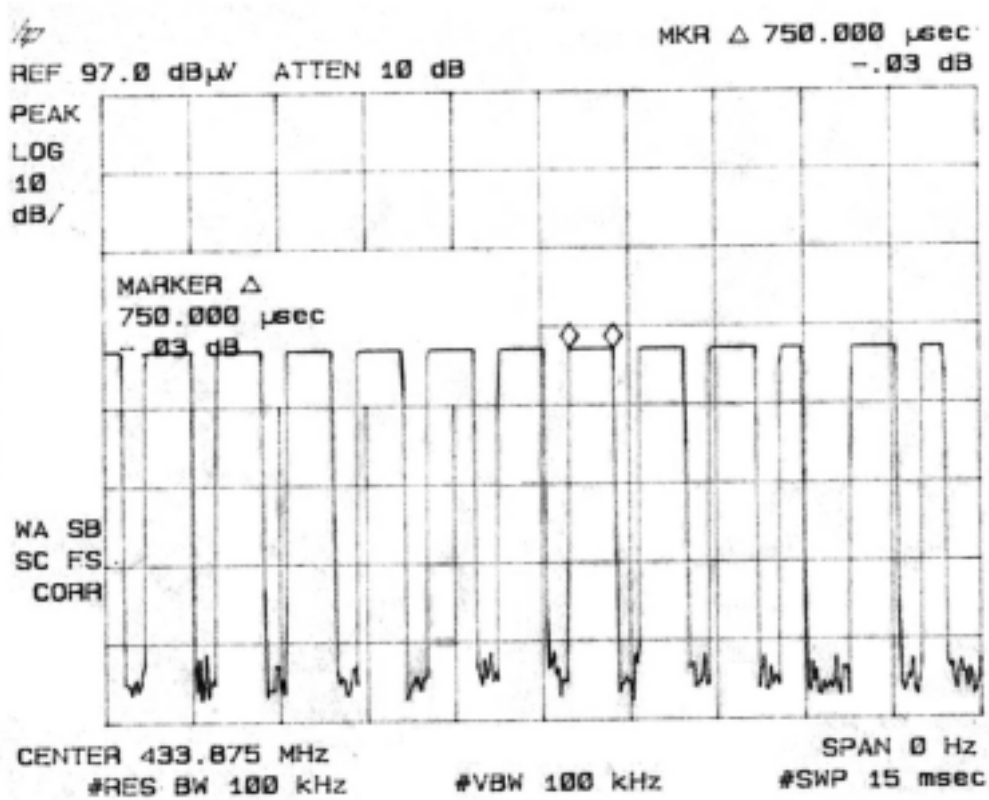




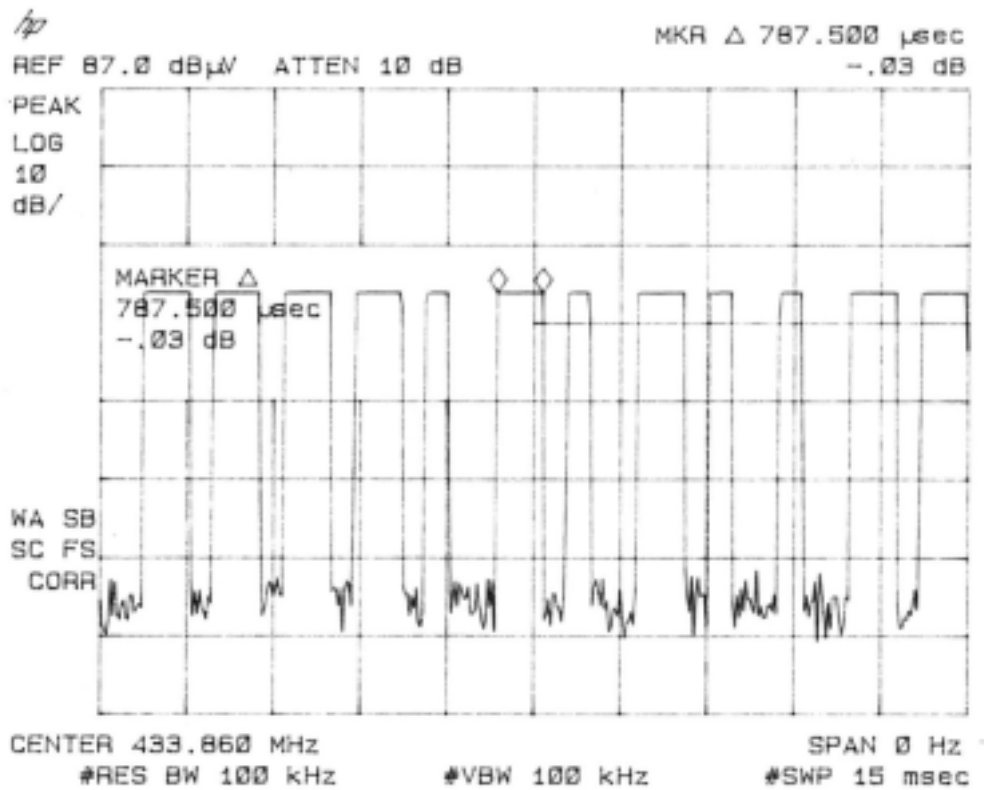


Ton

**Button #1**

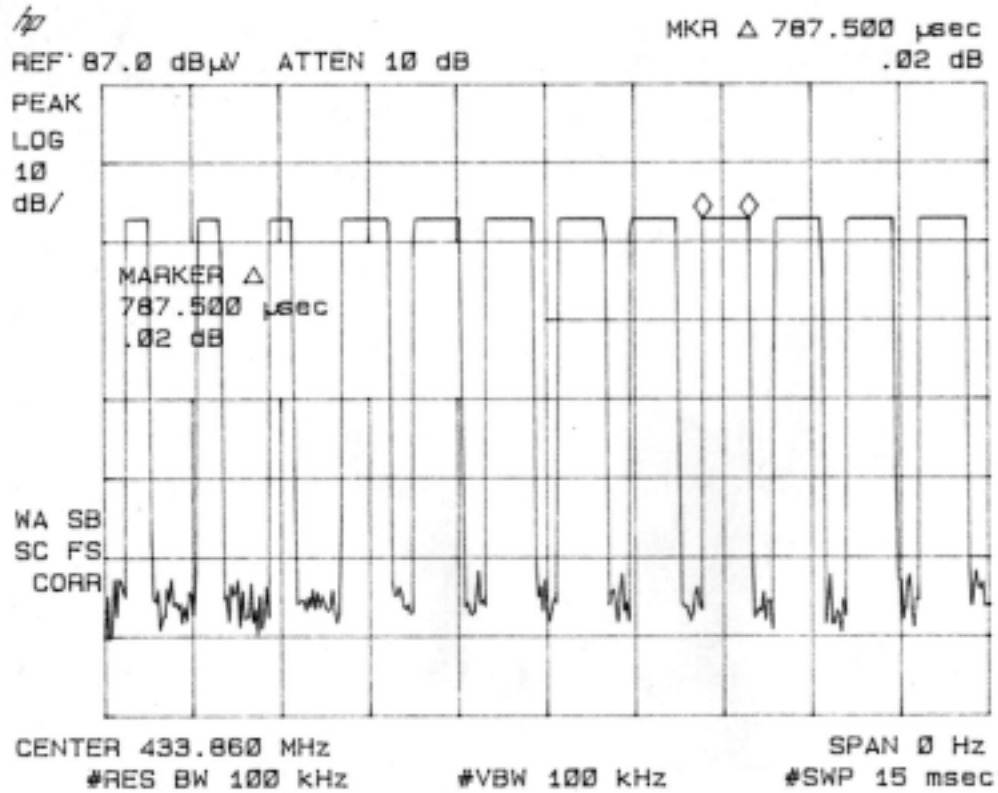


**Button #2**

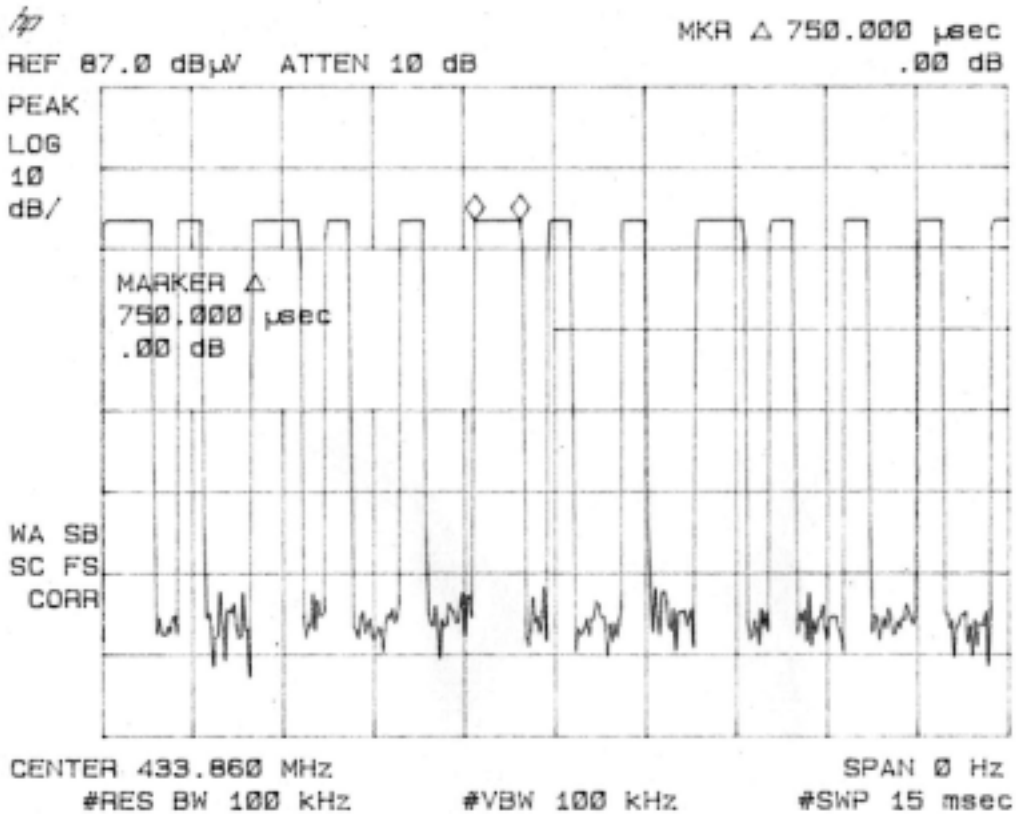




### Button #3



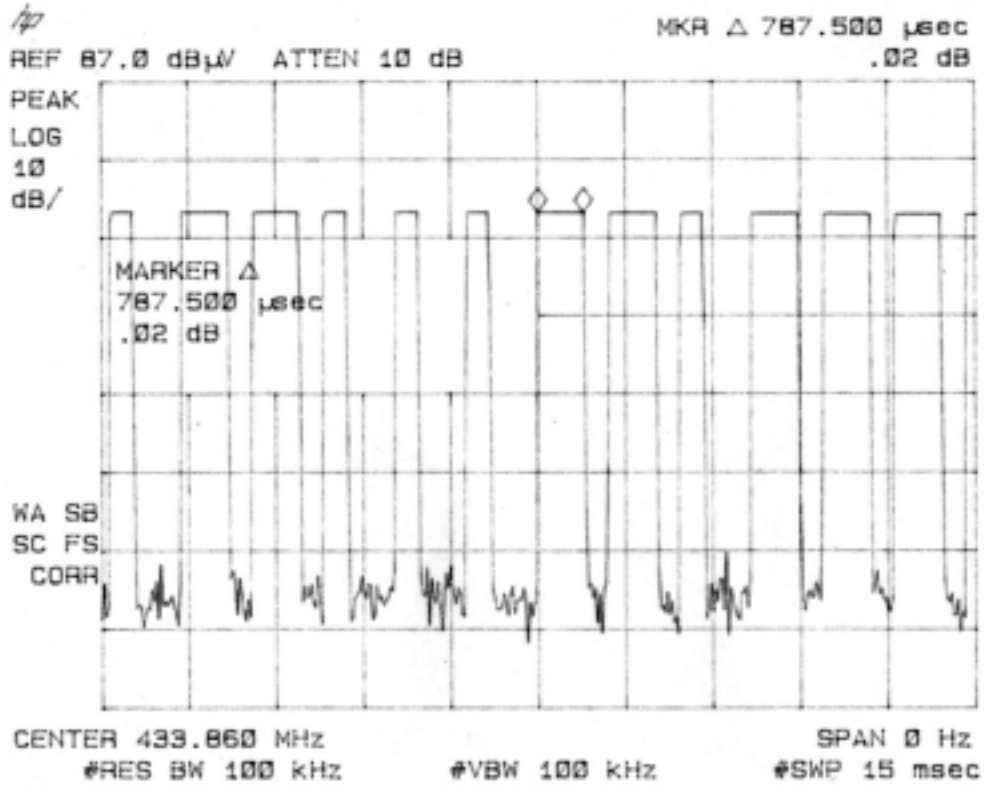
### Button #4



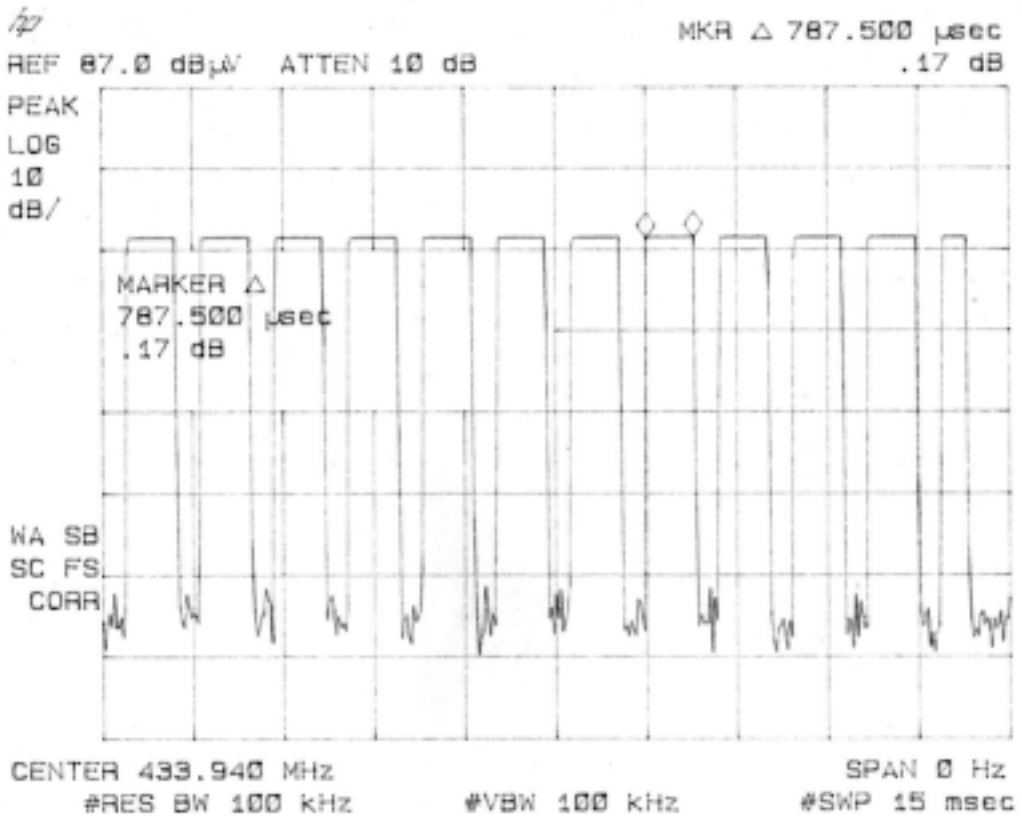




Button #5



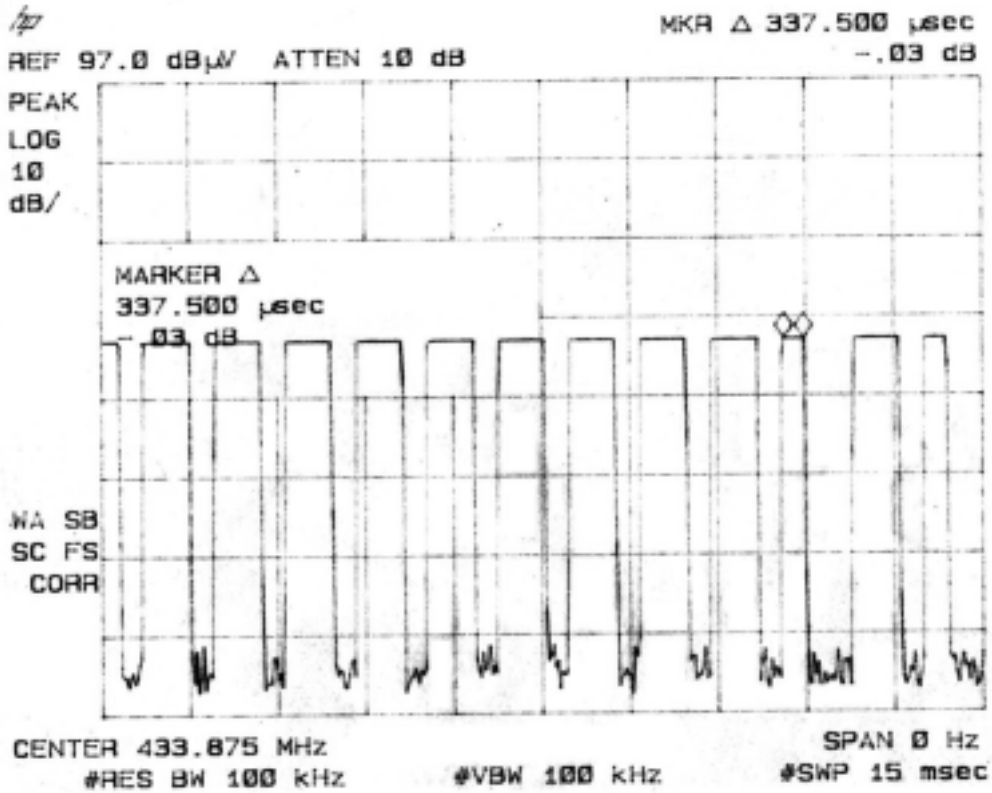
Button #6



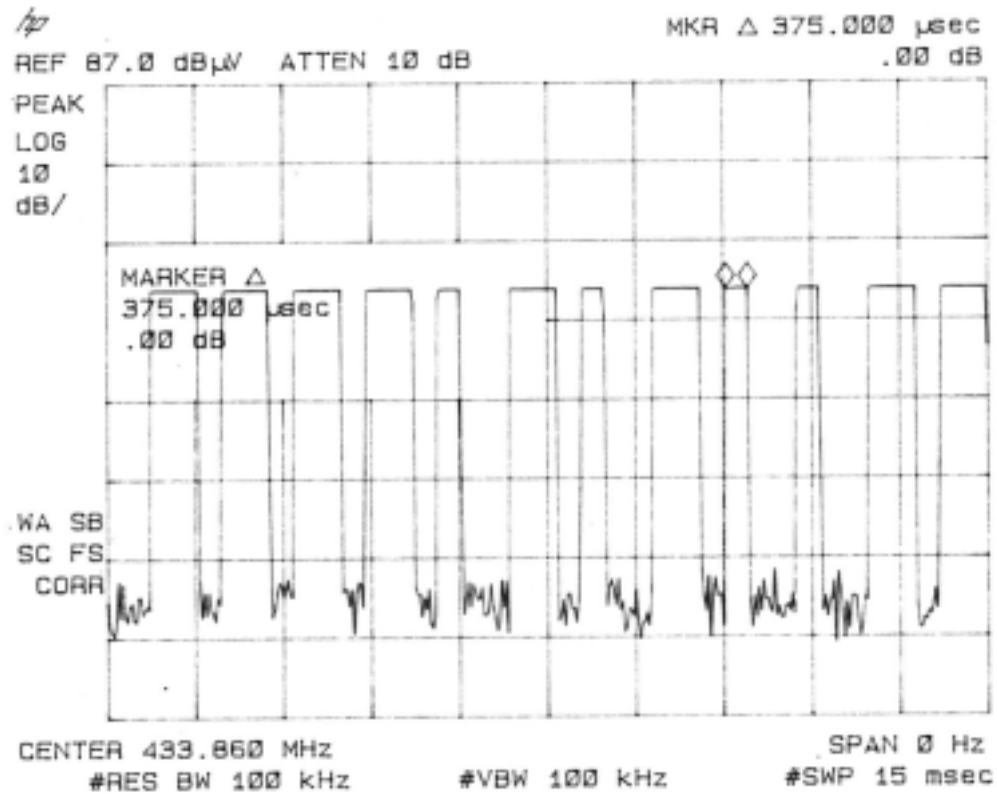


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Button #1

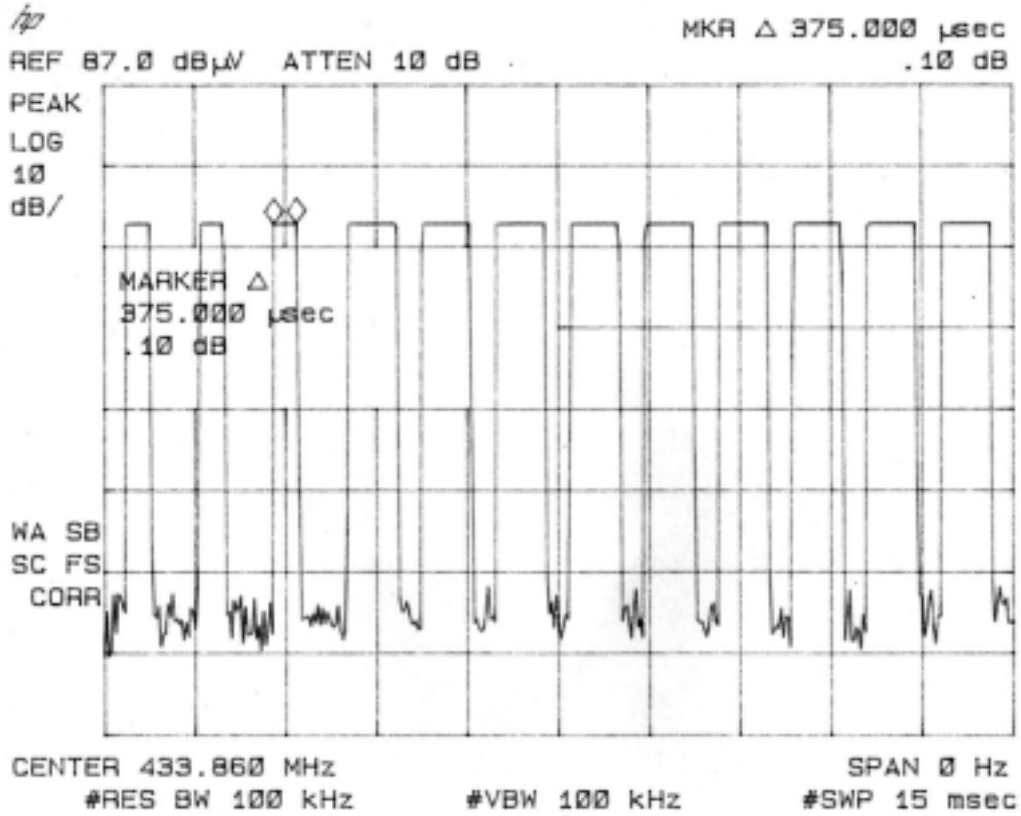


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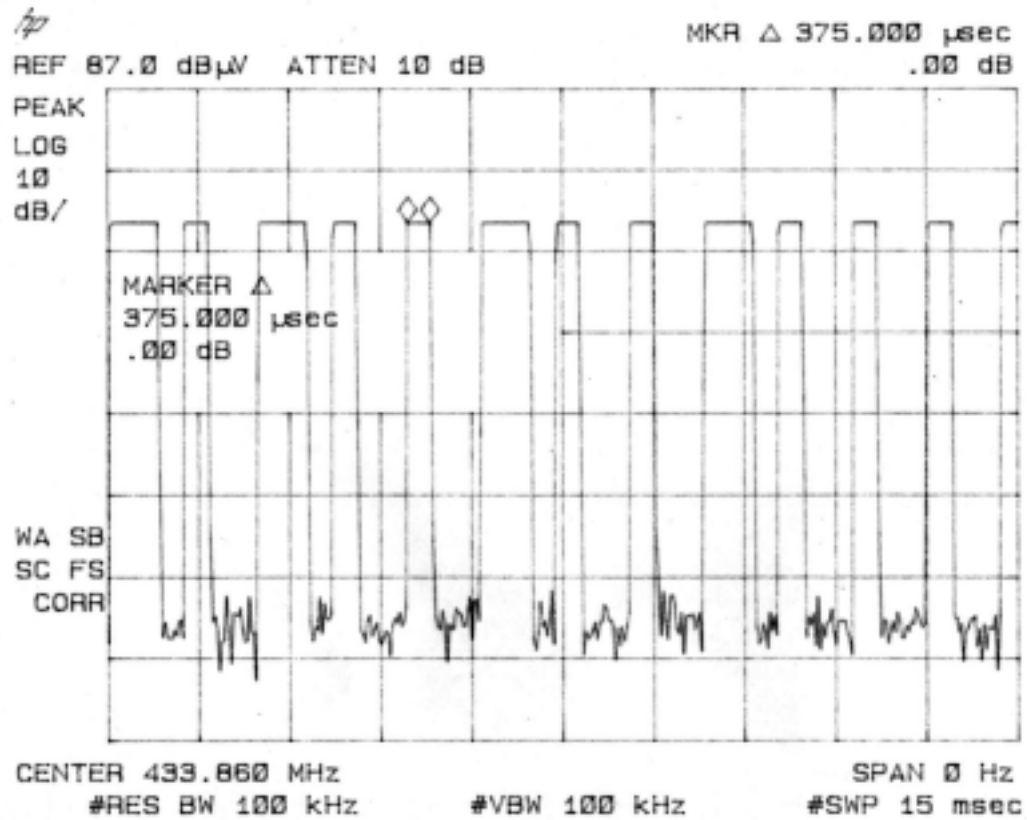




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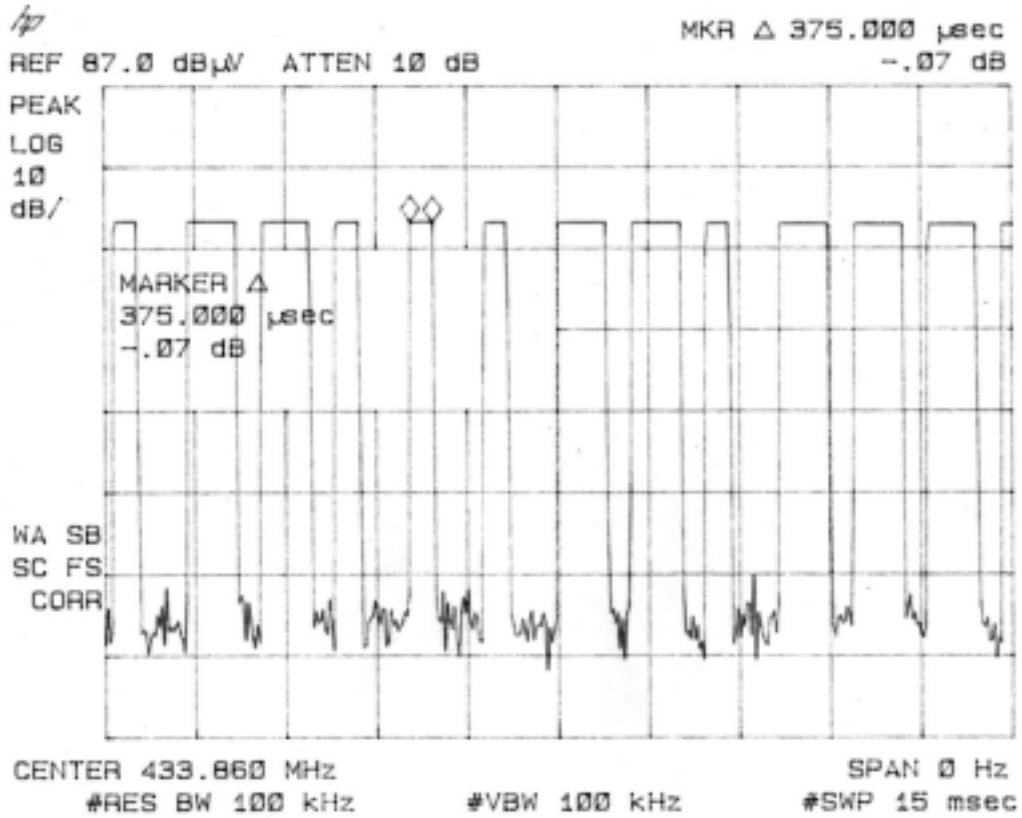


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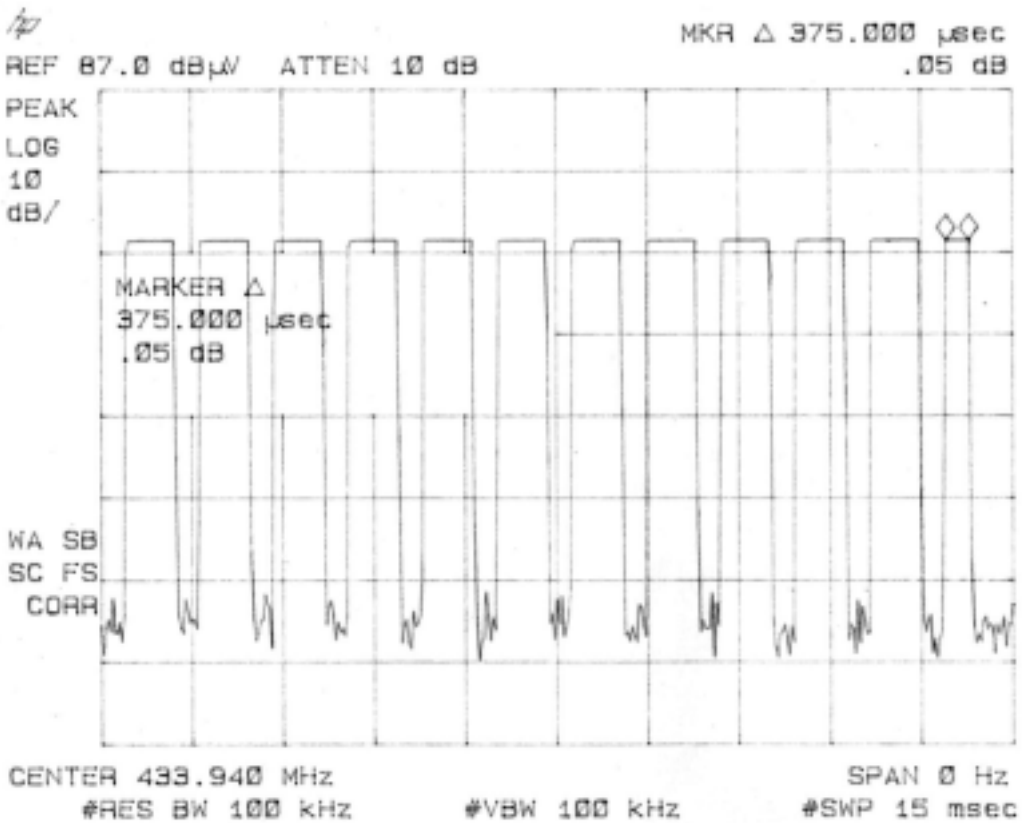




**Button #5**



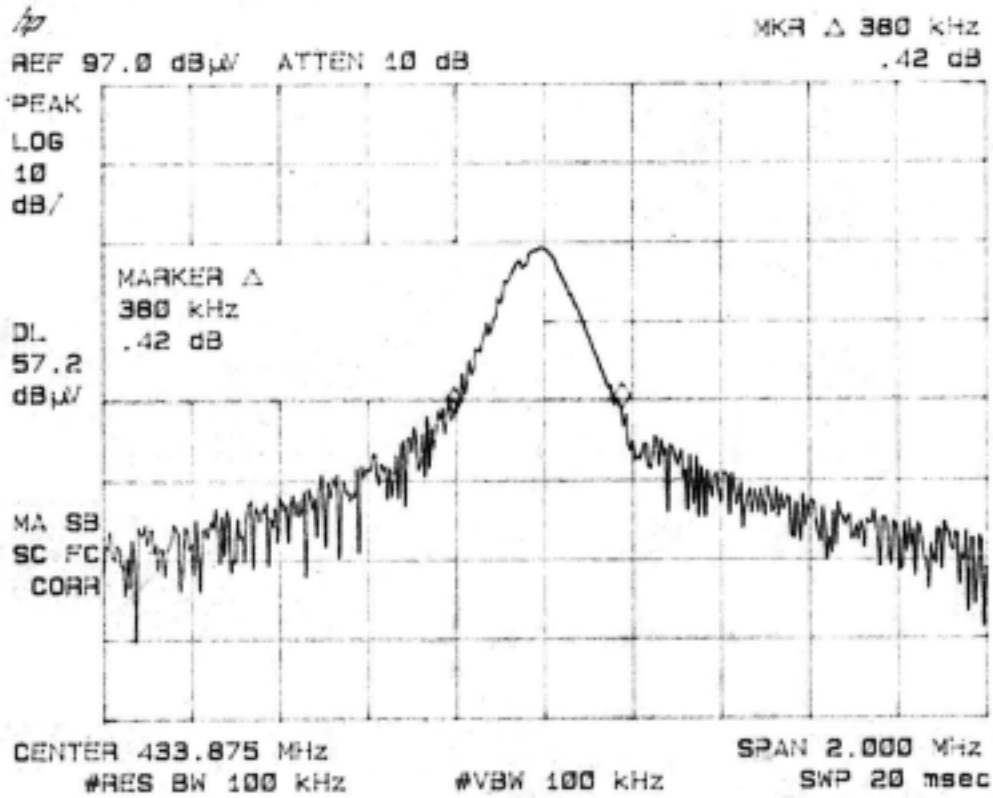
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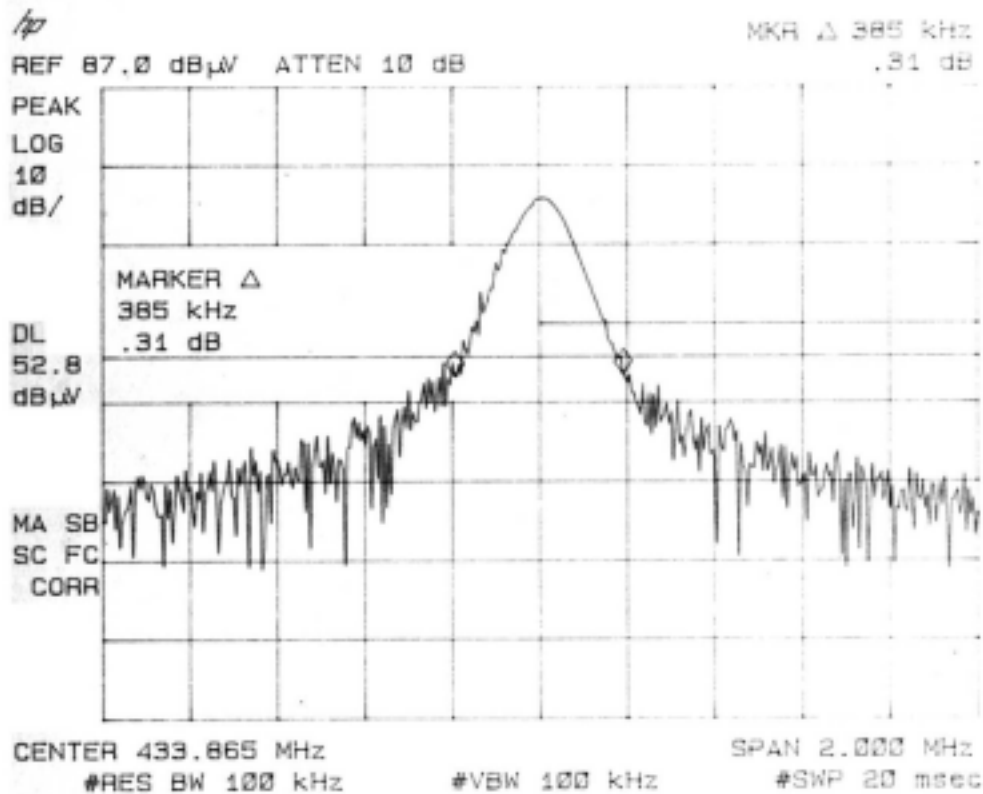


**Test Plot: The Emissions Bandwidth**

**Button #1**

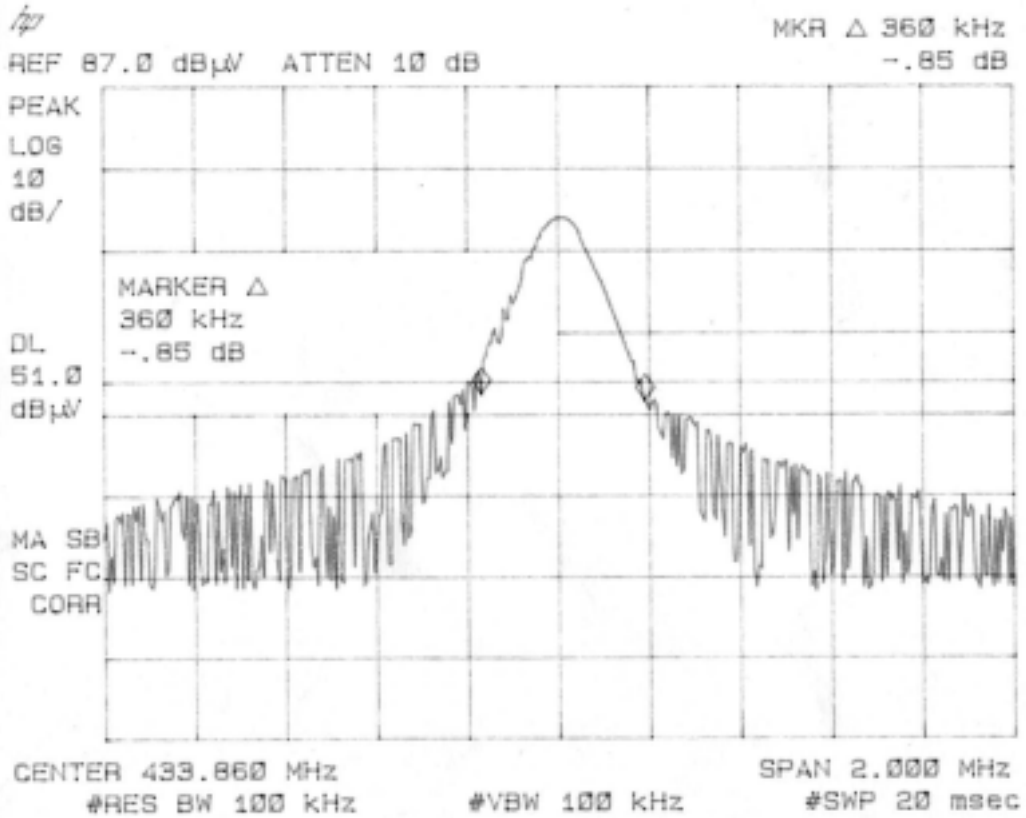


**Button #2**

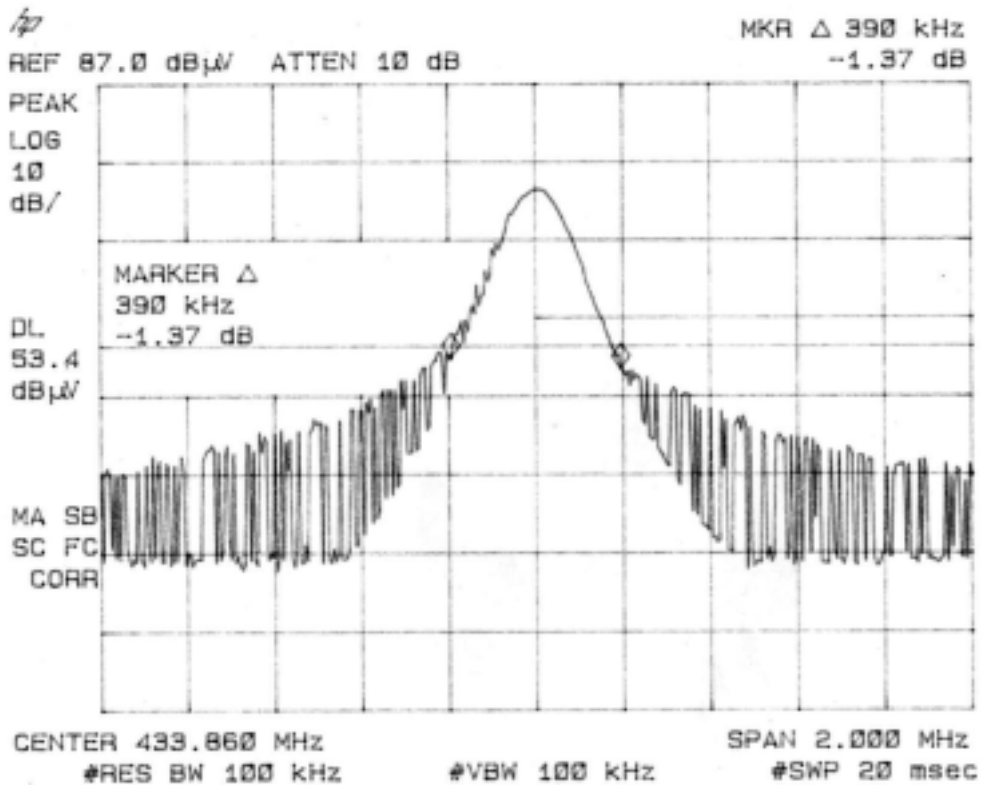




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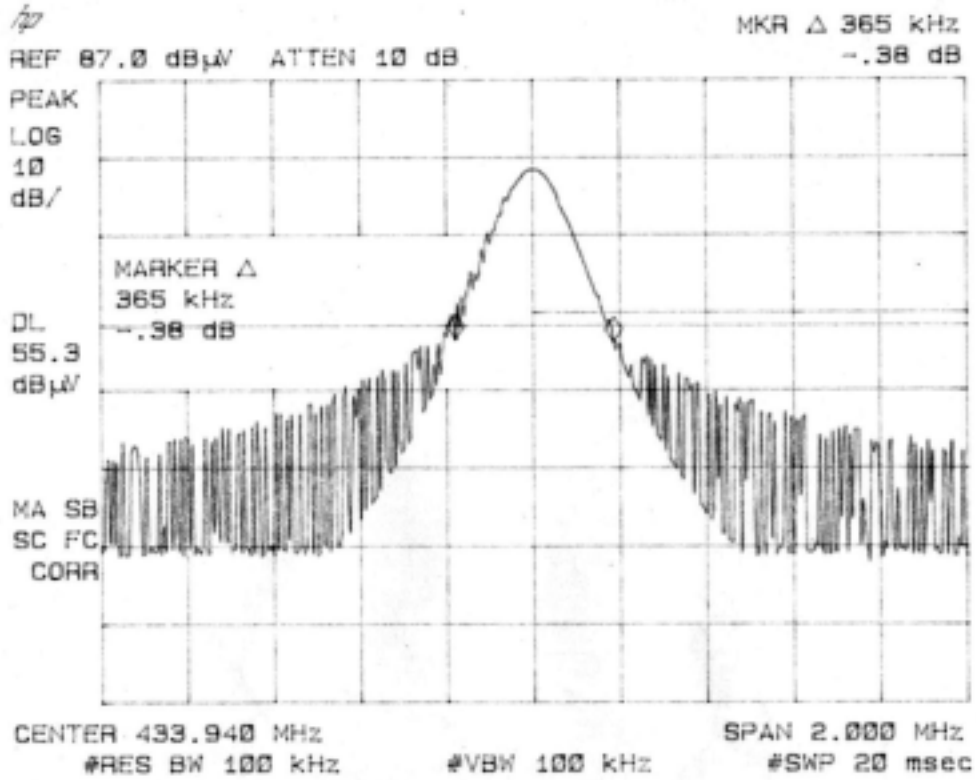


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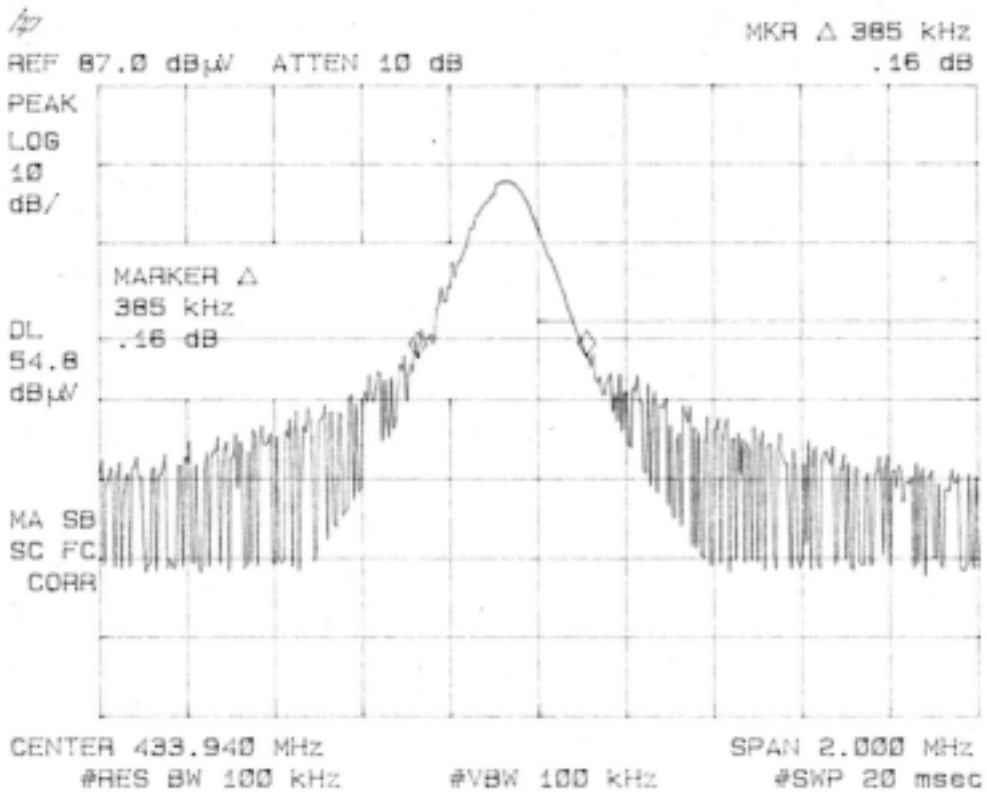




### Button #5



### Button #6



**TEST RESULTS****Below 1 GHz****Operation Mode:** TX Mode / Button #1**Test Date:** February 14, 2005**Temperature:** 25°C**Humidity:** 68 % RH**Tested by:** John Yen

Freq. (MHz)	Pk Rdg (dBuV)	Av Rdg (dBuV)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol (H/V)
433.89	66.90	59.43	-2.67	56.76	80.82	-24.06	3mV_X
867.77	50.99	43.52	3.38	46.90	60.82	-13.92	3mV_X
433.89	82.48	75.01	-2.67	72.34	80.82	-8.48	3mV_Y
867.77	61.91	54.44	3.38	57.82	60.82	-3.00	3mV_Y
433.89	80.28	72.81	-2.67	70.14	80.82	-10.68	3mV_Z
867.77	60.97	53.50	3.38	56.88	60.82	-3.94	3mV_Z
433.89	78.38	70.91	-2.67	68.24	80.82	-12.58	3mH_X
867.77	52.07	44.60	3.38	47.98	60.82	-12.84	3mH_X
433.89	76.65	69.18	-2.67	66.51	80.82	-14.31	3mH_Y
867.77	52.60	45.13	3.38	48.51	60.82	-12.31	3mH_Y
433.89	76.91	69.44	-2.67	66.77	80.82	-14.05	3mH_Z
867.77	48.27	40.80	3.38	44.18	60.82	-16.64	3mH_Z

*Factor = Antenna Factor + Cable Loss - Pre Amplifier*

*Av Rdg = Pk Rdg -7.4697dB*

**Notes:**

1. Measuring frequencies from 30 MHz to the 1GHz.
2. Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak detector mode.
3. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
4. The IF bandwidth of SPA between 30MHz to 1GHz was 100kHz.



**Operation Mode:** TX Mode / Button #2**Test Date:** February 14, 2005**Temperature:** 25°C**Humidity:** 68 % RH**Tested by:** John Yen

Freq. (MHz)	Pk Rdg (dBuV)	Av Rdg (dBuV)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol (H/V)
433.89	66.80	59.99	-2.67	57.32	80.82	-23.50	3mV_X
867.77	51.00	44.19	3.38	47.57	60.82	-13.25	3mV_X
433.89	82.41	75.60	-2.67	72.93	80.82	-7.89	3mV_Y
867.77	61.85	55.04	3.38	58.42	60.82	-2.40	3mV_Y
433.89	80.02	73.21	-2.67	70.54	80.82	-10.28	3mV_Z
867.77	60.52	53.71	3.38	57.09	60.82	-3.73	3mV_Z
433.89	66.80	59.99	-2.67	57.32	80.82	-23.50	3mH_X
867.77	51.00	44.19	3.38	47.57	60.82	-13.25	3mH_X
433.89	76.61	69.80	-2.67	67.13	80.82	-13.69	3mH_Y
867.77	52.51	45.70	3.38	49.08	60.82	-11.74	3mH_Y
433.89	76.44	69.63	-2.67	66.96	80.82	-13.86	3mH_Z
867.77	48.11	41.30	3.38	44.68	60.82	-16.14	3mH_Z

*Factor = Antenna Factor + Cable Loss - Pre Amplifier*

*Av Rdg = Pk Rdg -6.8112dB*

**Notes:**

1. Measuring frequencies from 30 MHz to the 1GHz.
2. Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak detector mode.
3. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
4. The IF bandwidth of SPA between 30MHz to 1GHz was 100kHz.

**Operation Mode:** TX Mode / Button #3**Test Date:** February 14, 2005**Temperature:** 25°C**Humidity:** 68 % RH**Tested by:** John Yen

Freq. (MHz)	Pk Rdg (dBuV)	Av Rdg (dBuV)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol (H/V)
433.89	66.66	60.16	-2.67	57.49	80.82	-23.33	3mV_X
867.77	50.69	44.19	3.38	47.57	60.82	-13.25	3mV_X
433.89	82.11	75.61	-2.67	72.94	80.82	-7.88	3mV_Y
867.77	61.06	54.56	3.38	57.94	60.82	-2.88	3mV_Y
433.89	80.22	73.72	-2.67	71.05	80.82	-9.77	3mV_Z
867.77	60.20	53.70	3.38	57.08	60.82	-3.74	3mV_Z
433.89	78.36	71.86	-2.67	69.19	80.82	-11.63	3mH_X
867.77	52.11	45.61	3.38	48.99	60.82	-11.83	3mH_X
433.89	76.28	69.78	-2.67	67.11	80.82	-13.71	3mH_Y
867.77	52.36	45.86	3.38	49.24	60.82	-11.58	3mH_Y
433.89	76.15	69.65	-2.67	66.98	80.82	-13.84	3mH_Z
867.77	48.06	41.56	3.38	44.94	60.82	-15.88	3mH_Z

Factor = Antenna Factor + Cable Loss - Pre Amplifier  
Av Rdg = Pk Rdg -6.4954dB

**Notes:**

1. Measuring frequencies from 30 MHz to the 1GHz.
2. Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak detector mode.
3. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
4. The IF bandwidth of SPA between 30MHz to 1GHz was 100kHz.

**Operation Mode:** TX Mode / Button #4**Test Date:** February 14, 2005**Temperature:** 25°C**Humidity:** 68 % RH**Tested by:** John Yen

Freq. (MHz)	Pk Rdg (dBuV)	Av Rdg (dBuV)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol (H/V)
433.89	67.06	59.68	-2.67	57.01	80.82	-23.81	3mV_X
867.77	50.10	42.72	3.38	46.10	60.82	-14.72	3mV_X
433.89	80.05	72.67	-2.67	70.00	80.82	-10.82	3mV_Y
867.77	60.12	52.74	3.38	56.12	60.82	-4.70	3mV_Y
433.89	82.02	74.64	-2.67	71.97	80.82	-8.85	3mV_Z
867.77	61.03	53.65	3.38	57.03	60.82	-3.79	3mV_Z
433.89	78.62	71.24	-2.67	68.57	80.82	-12.25	3mH_X
867.77	52.31	44.93	3.38	48.31	60.82	-12.51	3mH_X
433.89	76.96	69.58	-2.67	66.91	80.82	-13.91	3mH_Y
867.77	49.32	41.94	3.38	45.32	60.82	-15.50	3mH_Y
433.89	76.25	68.87	-2.67	66.20	80.82	-14.62	3mH_Z
867.77	53.06	45.68	3.38	49.06	60.82	-11.76	3mH_Z

Factor = Antenna Factor + Cable Loss - Pre Amplifier  
Av Rdg = Pk Rdg - 7.3813dB

**Notes:**

1. Measuring frequencies from 30 MHz to the 1GHz.
2. Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak detector mode.
3. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
4. The IF bandwidth of SPA between 30MHz to 1GHz was 100kHz.

**Operation Mode:** TX Mode / Button #5**Test Date:** February 14, 2005**Temperature:** 25°C**Humidity:** 68 % RH**Tested by:** John Yen

Freq. (MHz)	Pk Rdg (dBuV)	Av Rdg (dBuV)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol (H/V)
433.89	66.50	59.46	-2.67	56.79	80.82	-24.03	3mV_X
867.77	50.01	42.97	3.38	46.35	60.82	-14.47	3mV_X
433.89	82.50	75.46	-2.67	72.79	80.82	-8.03	3mV_Y
867.77	61.55	54.51	3.38	57.89	60.82	-2.93	3mV_Y
433.89	80.30	73.26	-2.67	70.59	80.82	-10.23	3mV_Z
867.77	60.06	53.02	3.38	56.40	60.82	-4.42	3mV_Z
433.89	78.62	71.58	-2.67	68.91	80.82	-11.91	3mH_X
867.77	52.14	45.10	3.38	48.48	60.82	-12.34	3mH_X
433.89	76.25	69.21	-2.67	66.54	80.82	-14.28	3mH_Y
867.77	52.36	45.32	3.38	48.70	60.82	-12.12	3mH_Y
433.89	76.56	69.52	-2.67	66.85	80.82	-13.97	3mH_Z
867.77	48.26	41.22	3.38	44.60	60.82	-16.22	3mH_Z

Factor = Antenna Factor + Cable Loss - Pre Amplifier  
Av Rdg = Pk Rdg - 7.0412dB

**Notes:**

1. Measuring frequencies from 30 MHz to the 1GHz.
2. Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak detector mode.
3. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
4. The IF bandwidth of SPA between 30MHz to 1GHz was 100kHz.

**Operation Mode:** TX Mode / Button #6**Test Date:** February 14, 2005**Temperature:** 25°C**Humidity:** 68 % RH**Tested by:** John Yen

Freq. (MHz)	Pk Rdg (dBuV)	Av Rdg (dBuV)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol (H/V)
433.89	66.58	59.62	-2.67	56.95	80.82	-23.87	3mV_X
867.77	50.69	43.73	3.38	47.11	60.82	-13.71	3mV_X
433.89	82.03	75.07	-2.67	72.40	80.82	-8.42	3mV_Y
867.77	61.66	54.70	3.38	58.08	60.82	-2.74	3mV_Y
433.89	80.23	73.27	-2.67	70.60	80.82	-10.22	3mV_Z
867.77	60.32	53.36	3.38	56.74	60.82	-4.08	3mV_Z
433.89	78.36	71.40	-2.67	68.73	80.82	-12.09	3mH_X
867.77	52.36	45.40	3.38	48.78	60.82	-12.04	3mH_X
433.89	76.84	69.88	-2.67	67.21	80.82	-13.61	3mH_Y
867.77	52.62	45.66	3.38	49.04	60.82	-11.78	3mH_Y
433.89	76.33	69.37	-2.67	66.70	80.82	-14.12	3mH_Z
867.77	48.96	42.00	3.38	45.38	60.82	-15.44	3mH_Z

Factor = Antenna Factor + Cable Loss - Pre Amplifier  
Av Rdg = Pk Rdg -6.9611dB

**Notes:**

1. Measuring frequencies from 30 MHz to the 1GHz.
2. Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak detector mode.
3. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
4. The IF bandwidth of SPA between 30MHz to 1GHz was 100kHz.

**Above 1 GHz****Operation Mode:** TX Mode / Button #3 (Worst)**Test Date:** February 14, 2005**Temperature:** 25°C**Humidity:** 68 % RH**Tested by:** John Yen

Freq. (MHz)	Pk Rdg (dBuV)	Av Rdg (dBuV)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol (H/V)
1300	58.00	---	-8.76	49.24	74.00	-24.76	3mV
1300	---	48.82	-8.76	40.06	54.00	-13.94	3mV
1736	50.50	44.00	-6.38	37.62	60.82	-23.20	3mV
1300	52.60	---	-8.76	43.84	74.00	-30.16	3mH
1300	---	45.38	-8.76	36.62	54.00	-17.38	3mH
1736	49.00	42.50	-6.38	36.12	60.82	-24.69	3mH

*Factor = Antenna Factor + Cable Loss - Pre Amplifier*

**Notes:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode (RBW=VBW=1MHz) of the emission shown in Rdg column.
4. Average detector mode (RBW=1MHz, VBW=10Hz) for restricted frequency bands.
5. Average measured mode (Pk Rdg - 6.4954dB) for not restricted frequency bands.