

TEST CONDITIONS AND DATA

Output Signal Level Measurements

◆ Test Equipment Used

<u>Model Name</u>	<u>Manufacturer</u>	<u>Description</u>
8566B	Hewlett Packard	Spectrum Analyzer
85685A	Hewlett Packard	RF preselector
RAM	Rohde & Schwarz	Matching Pad
PM5418	FLUKE	Pattern Generator

◆ Auxiliary Equipment Used

<u>Model Name</u>	<u>Manufacturer</u>	<u>Descriptions</u>
14C5T BLU	Daewoo Electronics.	Color TV Receiver

◆ Accessories including cables

<u>Name</u>	<u>Length</u>	<u>Port and Descriptions</u>
RCA	1.5m	Video / Audio

◆ Environmental Conditions

Temperature	20°C
Humidity	49 %
Atmosphere pressure	1002mbar

◆ Test Program Playback and record mode

◆ Test Area Compact Chamber

Note : Limit Calculations

For Video Signal

$$346.4 \times 75^{1/2} = 2999\mu V = 69.54\text{dBuV} = -37.46 \text{ dBm}$$

For Audio Signal

$$77.5 \times 75^{1/2} = 671.17\mu V = 56.53\text{dBuV} = -50.46 \text{ dBm}$$

The test were performed with RF receiving as VITS. The VITS signals, 1V and 5V peak-to-peak, were used for channel 3 and channel 4 with alternate. The above test program were employed for each channel.

Output Signal Level Measurements

TV CH.	Freq. (MHz)	Level (dBuV)	Limit (dBuV)	Mode	Margin (dB)
3 (Pix)	61.28	56.0	69.54	Playback	13.54
3 (Aud)	65.81	42.4	56.53	Playback	14.13
3 (Pix)	61.28	57.4	69.54	Record	12.14
3 (Aud)	65.79	42.4	56.53	Record	14.13
4 (Pix)	67.27	55.9	69.54	Playback	13.64
4 (Aud)	71.80	41.9	56.53	Playback	14.63
4 (Pix)	67.26	55.8	69.54	Record	13.74
4 (Aud)	71.79	41.9	56.53	Record	14.63

Output Signal Tabulated Data with Tuner

(LG Innotek Co., Ltd. Model: **TADM-H201F**)

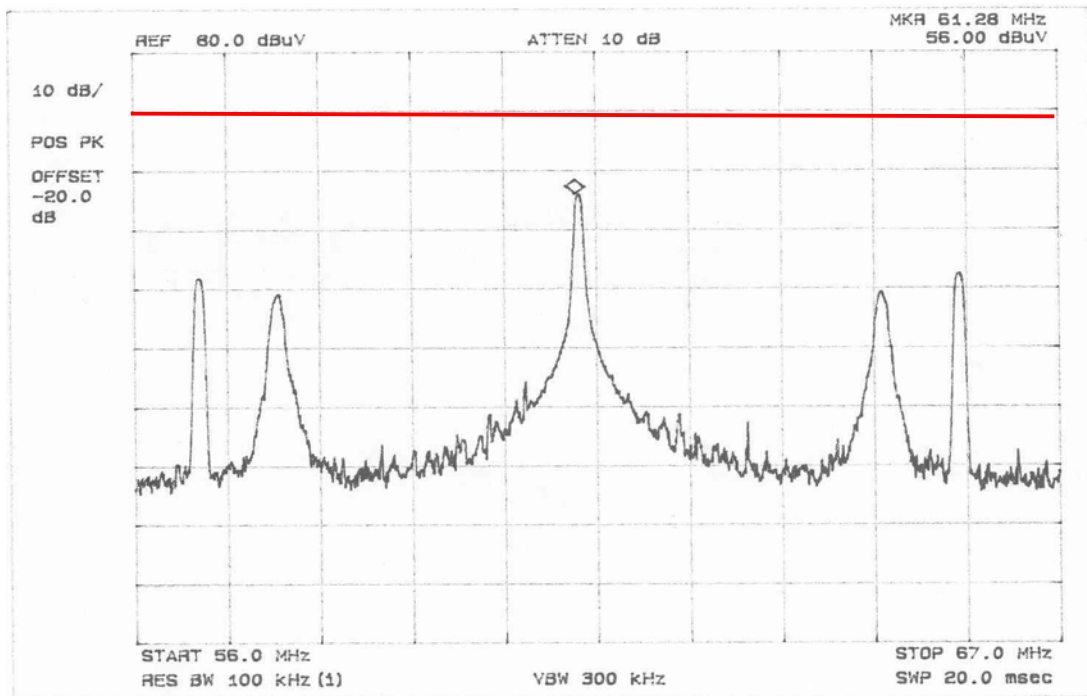
TV CH.	Freq. (MHz)	Level (dBuV)	Limit (dBuV)	Mode	Margin (dB)
3 (Pix)	61.27	54.5	69.54	Playback	15.04
3 (Aud)	56.75	40.9	56.53	Playback	15.63
3 (Pix)	61.27	54.4	69.54	Record	15.14
3 (Aud)	56.75	40.9	56.53	Record	15.63
4 (Pix)	67.26	54.3	69.54	Playback	15.24
4 (Aud)	62.75	41.0	56.53	Playback	15.53
4 (Pix)	67.27	55.6	69.54	Record	13.94
4 (Aud)	62.73	41.0	56.53	Record	15.63

Output Signal Tabulated Data with Tuner

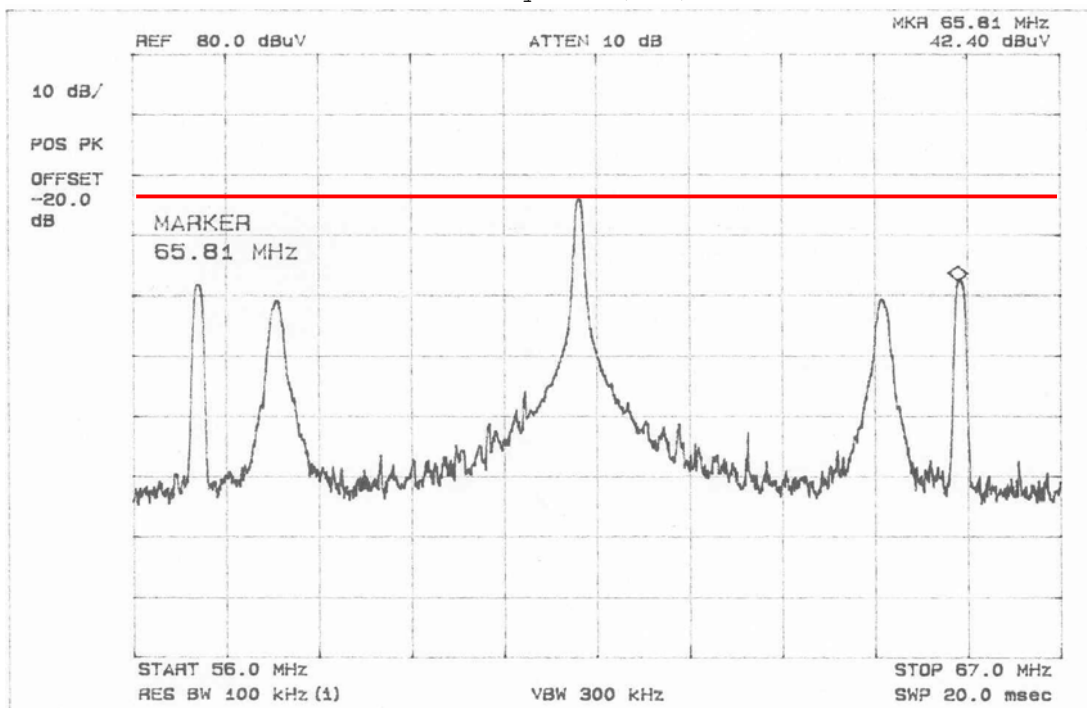
(Korea Alps Model: **TMZH2-030A**)

Output Signal Level Measurements

Tuner: TADM-H201F (LG)



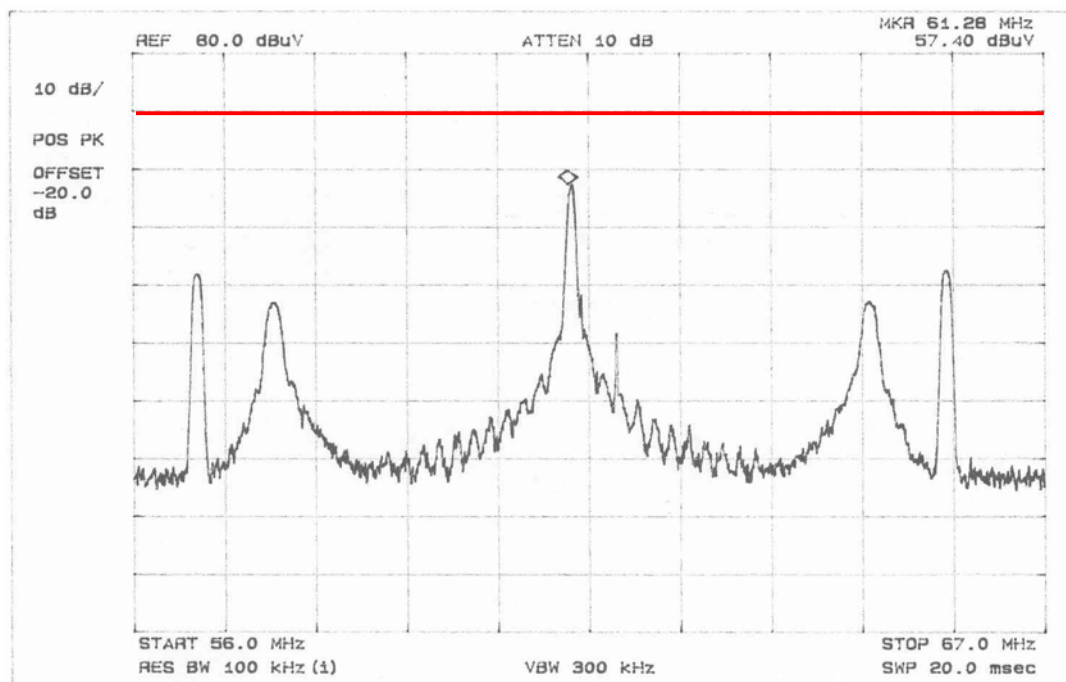
CH3 Playback (Pix)



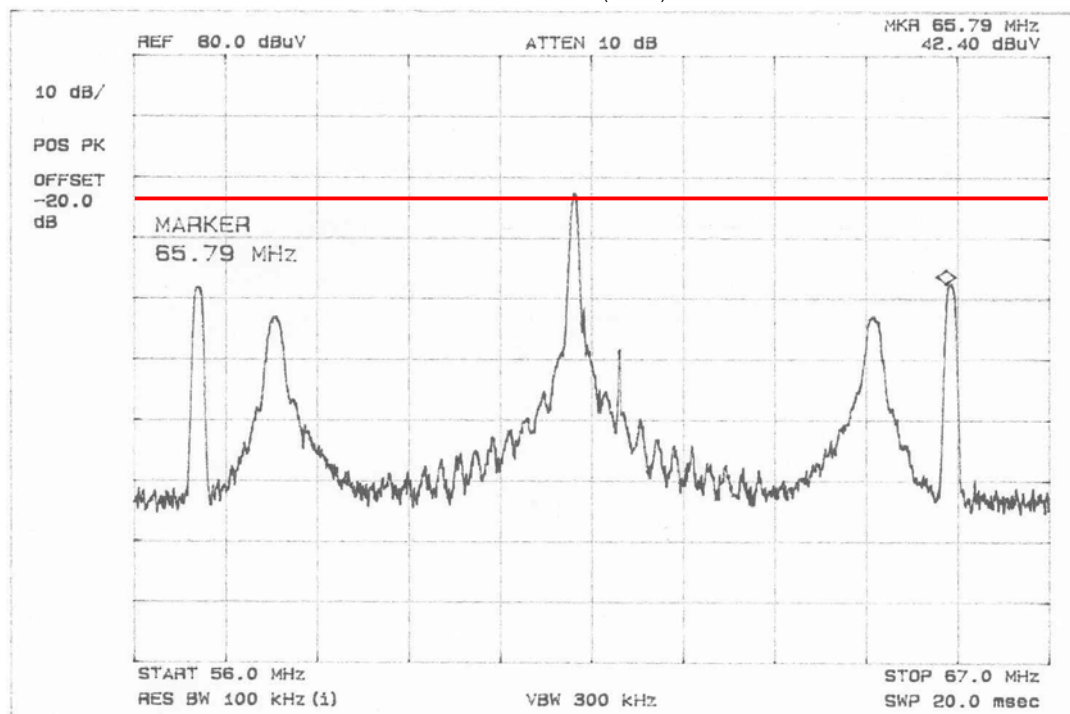
CH3 Playback (Aud)

Output Signal Level Measurements

Tuner: TADM-H201F (LG)



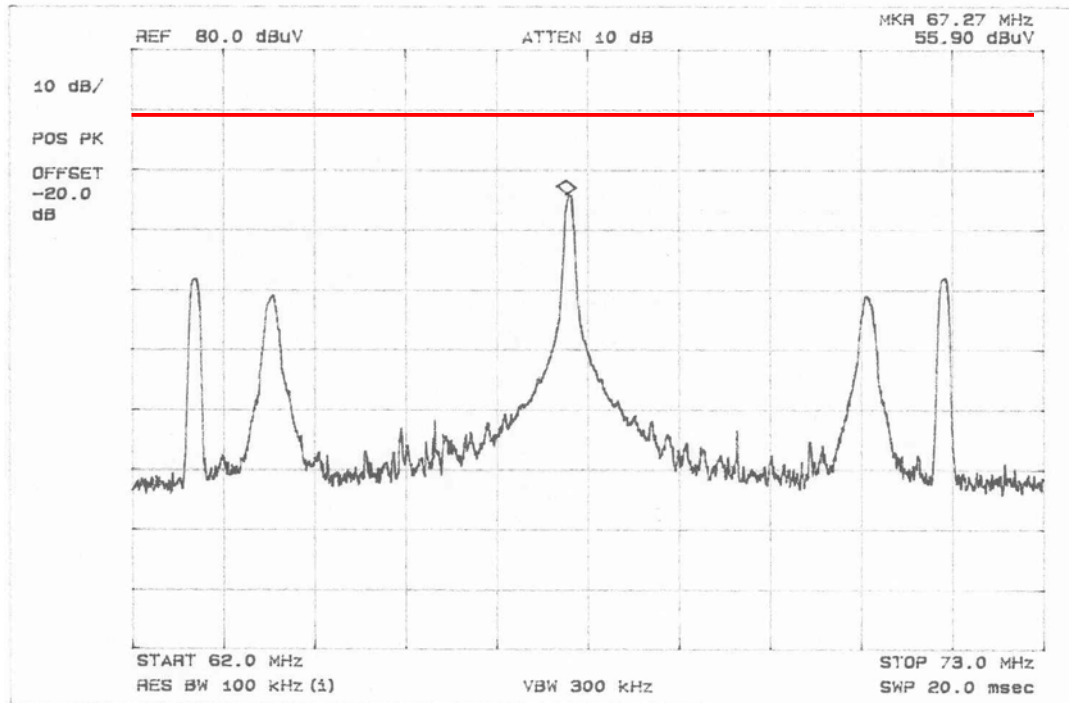
CH3 Record (Pix)



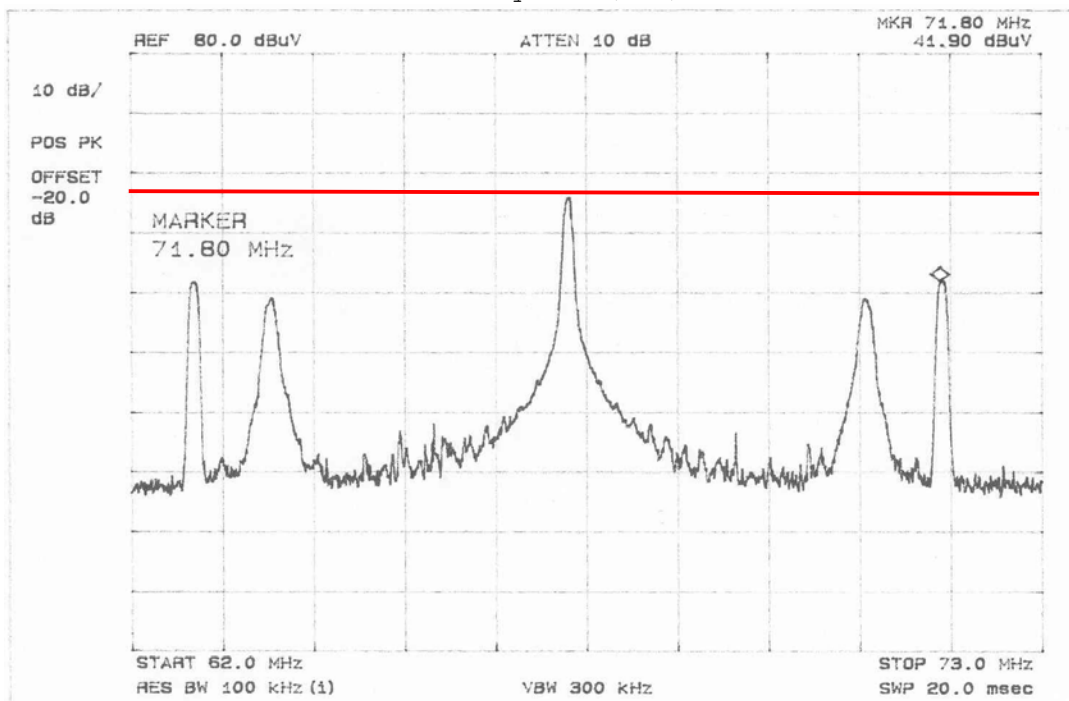
CH3 Record (Aud)

Output Signal Level Measurements

Tuner: TADM-H201F (LG)



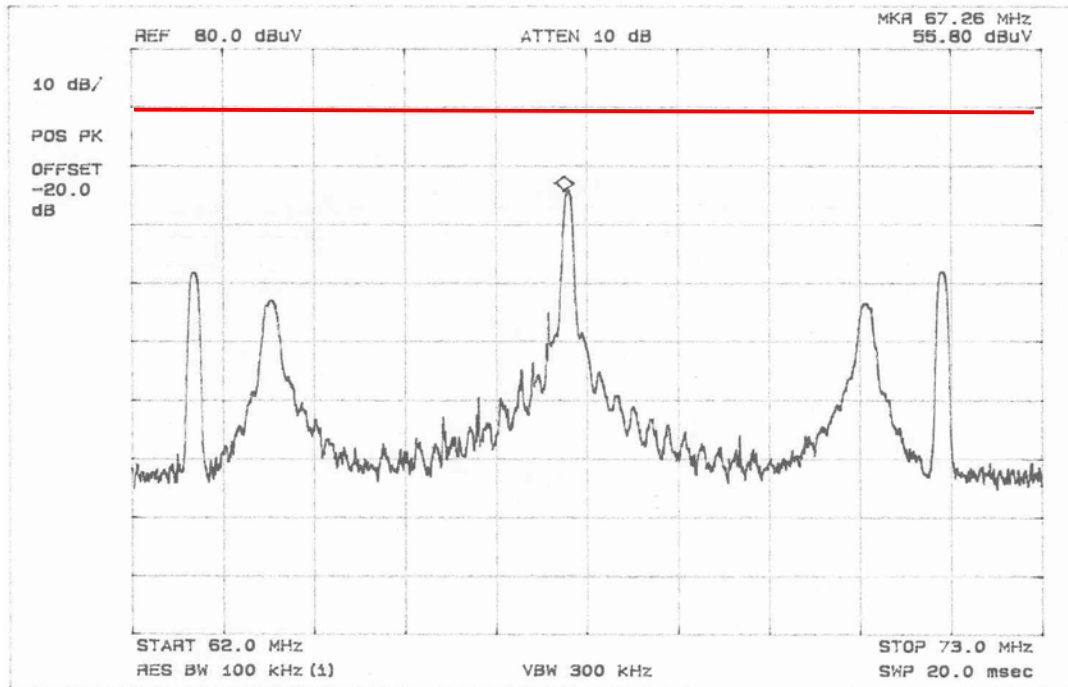
CH4 Playback (Pix)



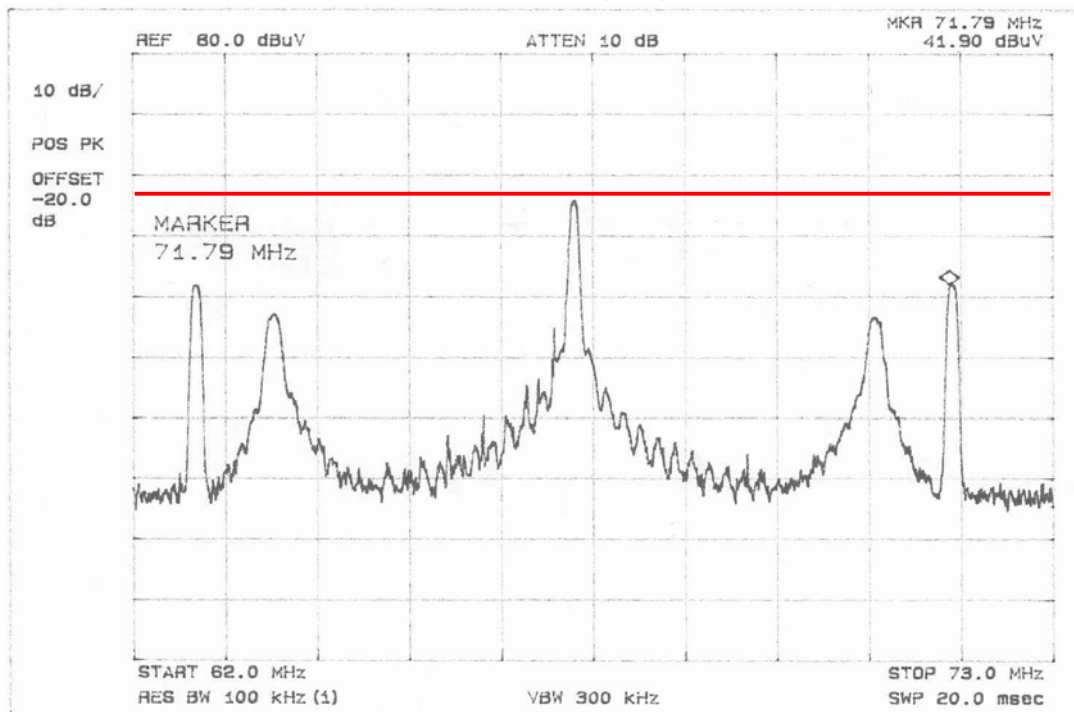
CH4 Playback (Aud)

Output Signal Level Measurements

Tuner: TADM-H201F (LG)



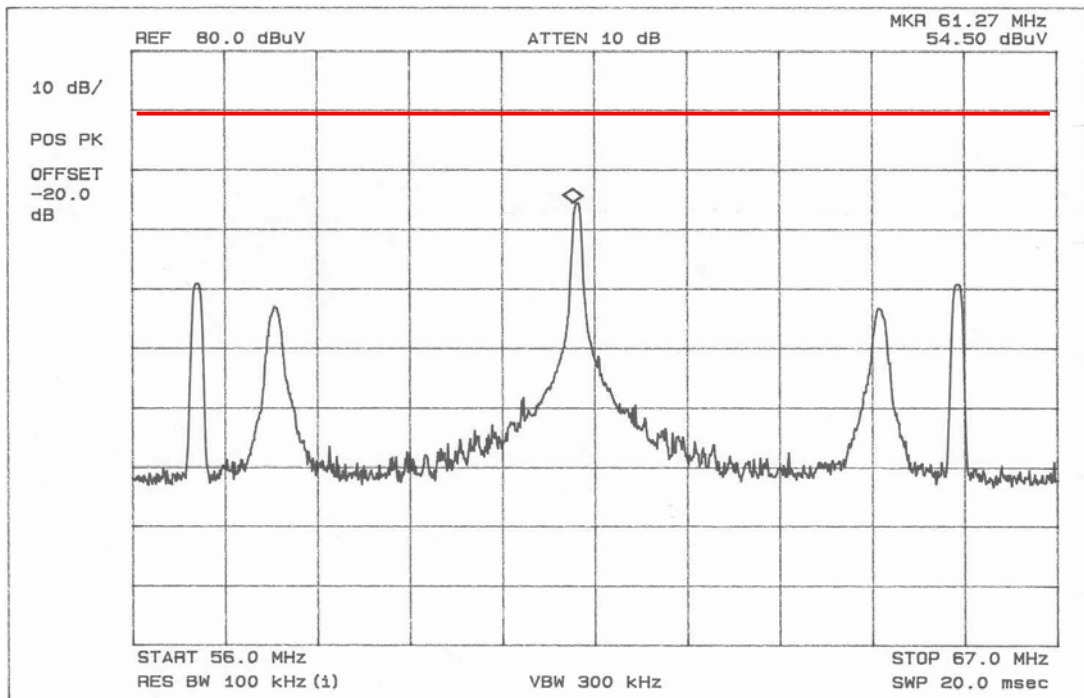
CH4 Record (Pix)



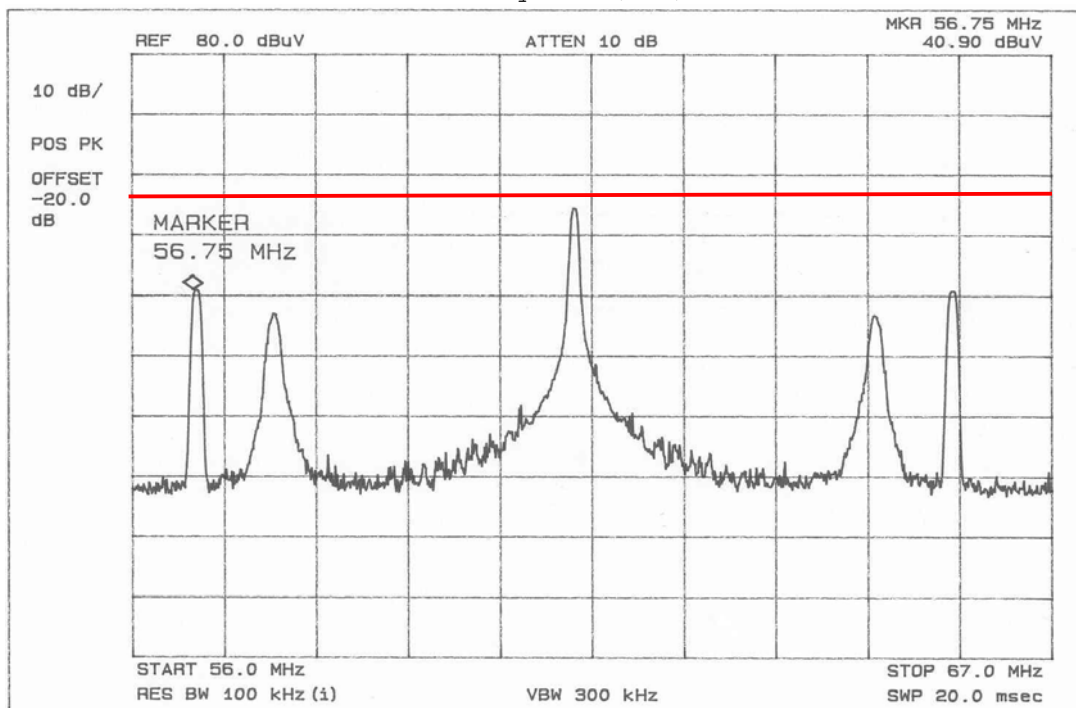
CH4 Record (Aud)

Output Signal Level Measurements

Tuner: TMZH2-030A (ALPS)



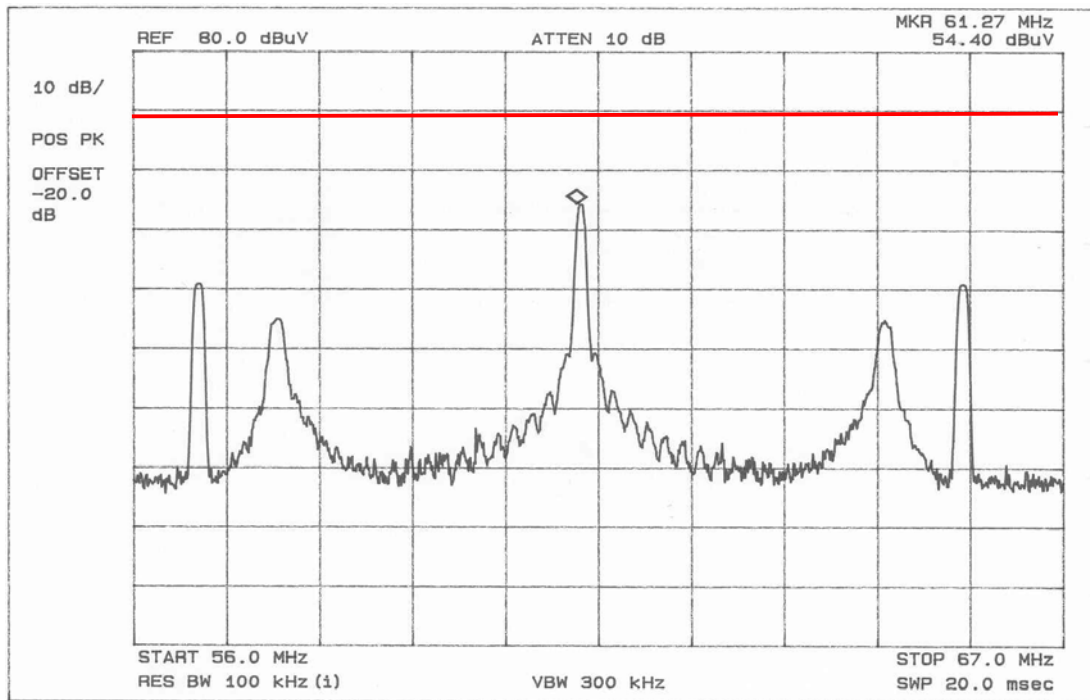
CH3 Playback (Pix)



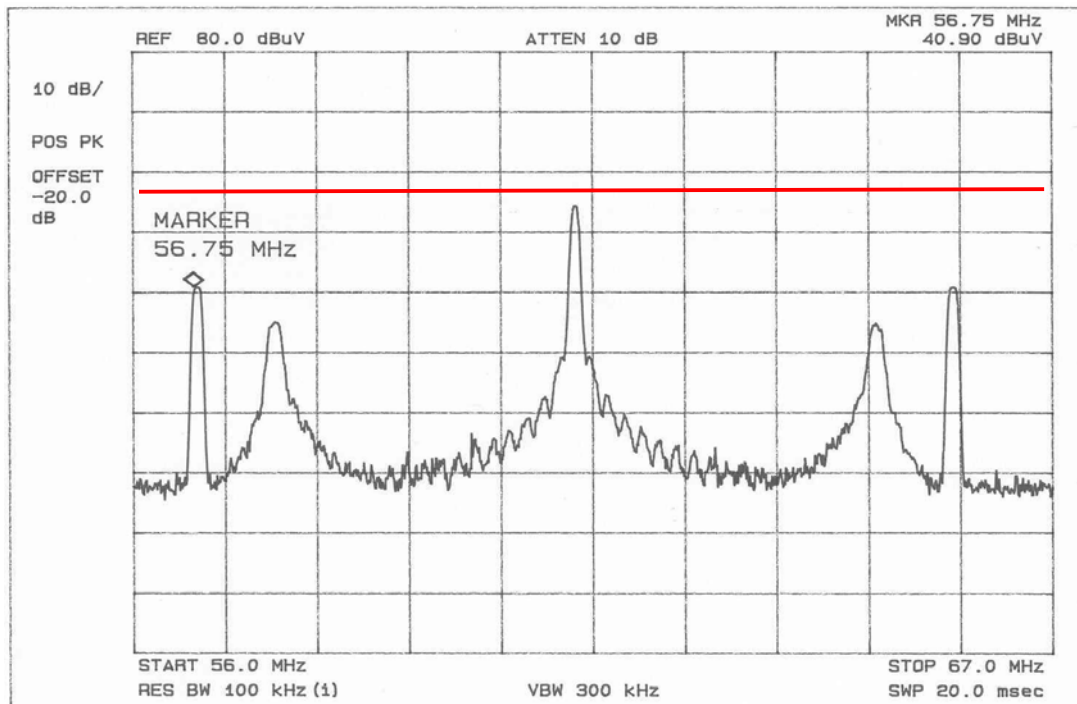
CH3 Playback (Aud)

Output Signal Level Measurements

Tuner: TMZH2-030A (ALPS)



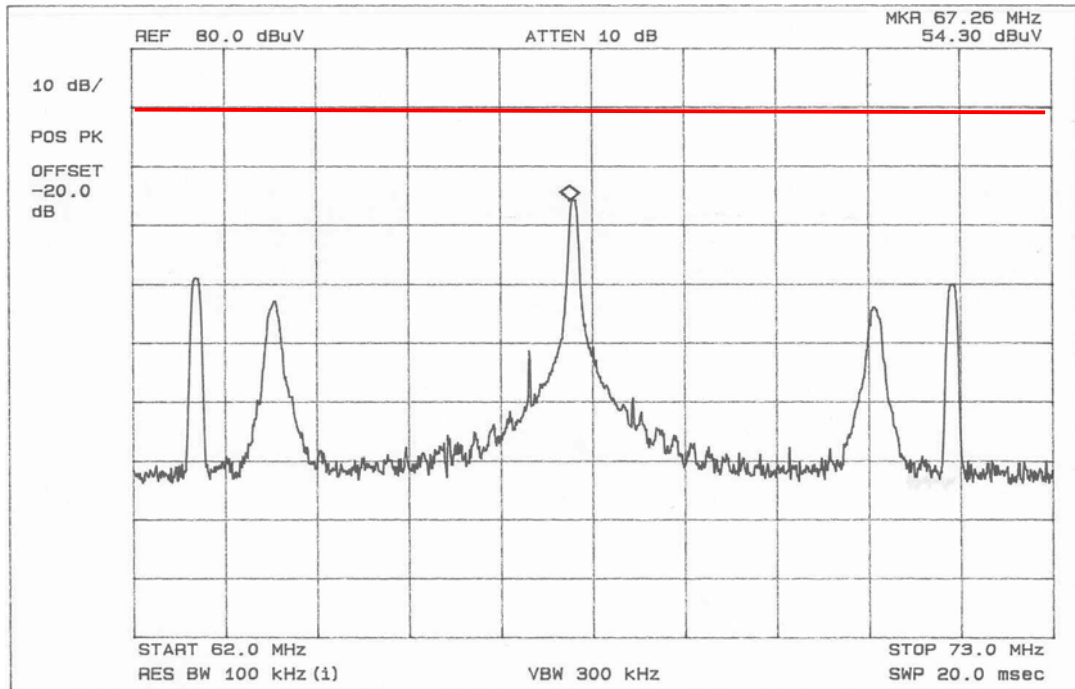
CH3 Record (Pix)



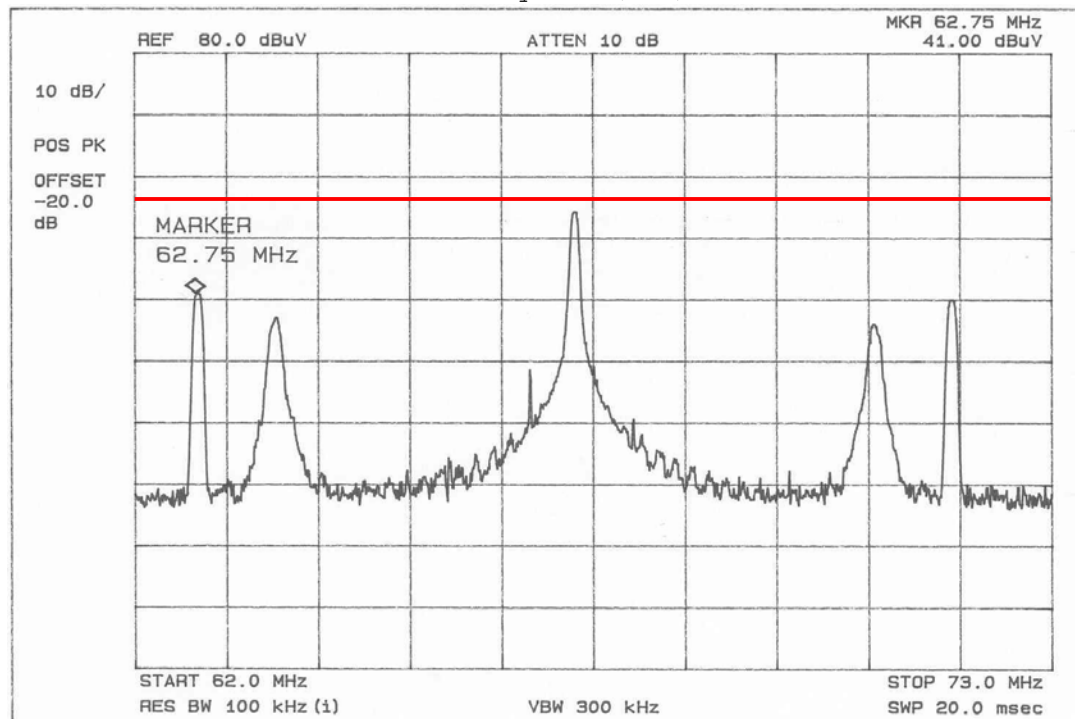
CH3 Record (Aud)

Output Signal Level Measurements

Tuner: TMZH2-030A (ALPS)



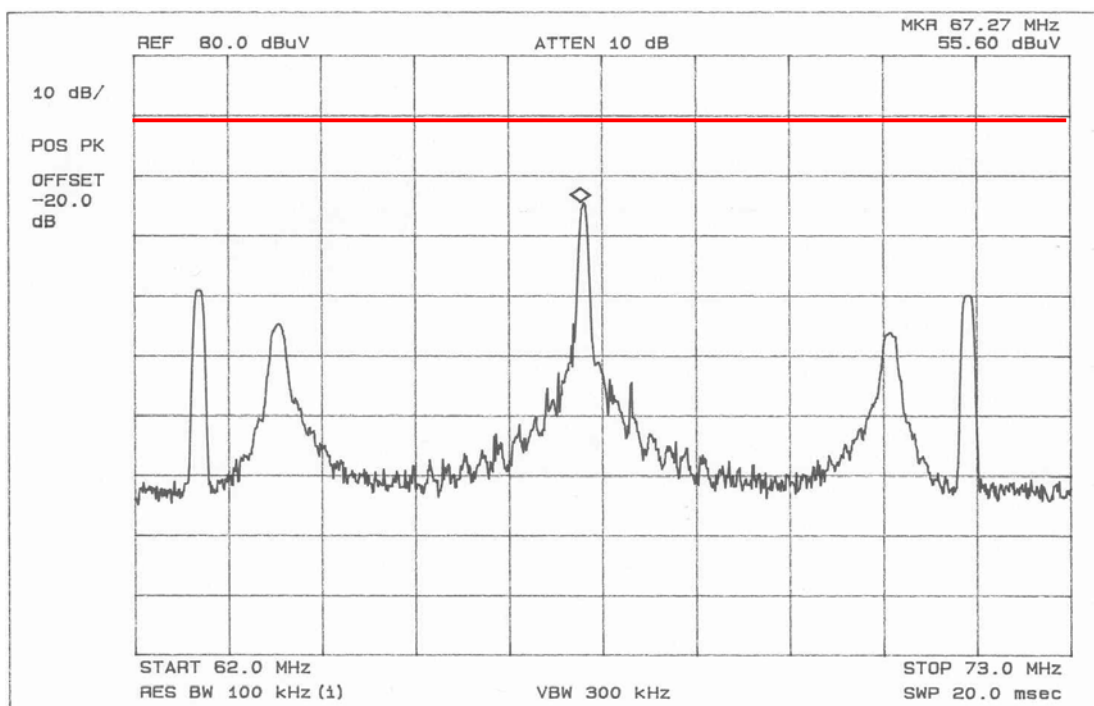
CH4 Playback (Pix)



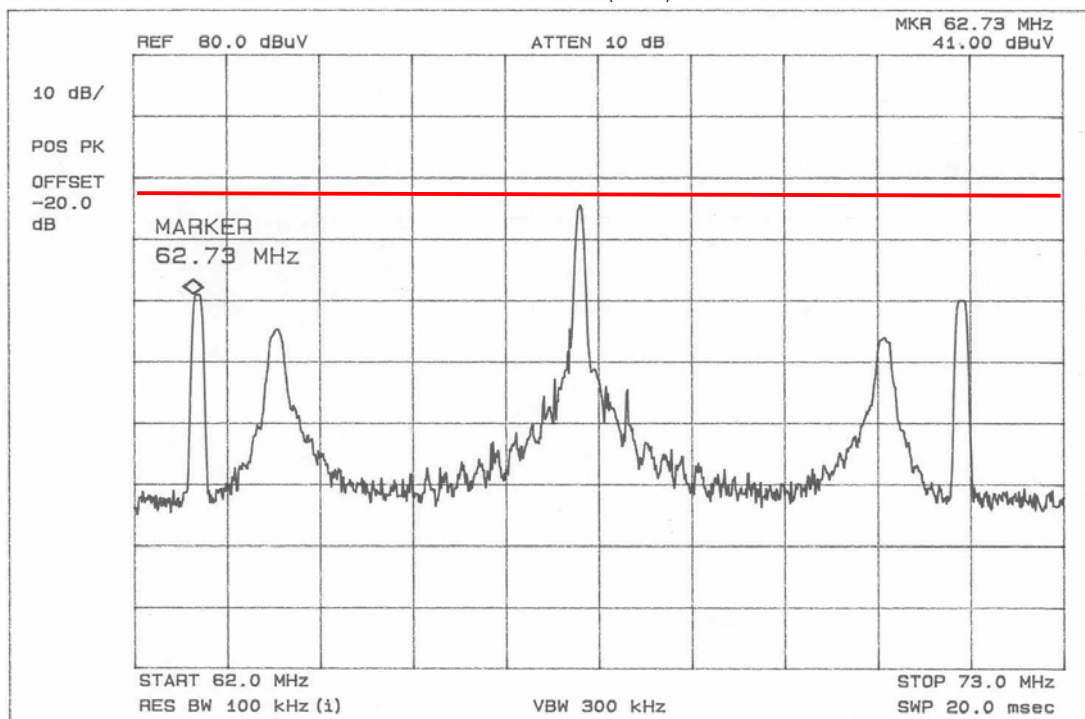
CH4 Playback (Aud)

Output Signal Level Measurements

Tuner: TMZH2-030A (ALPS)



CH4 Record (Pix)



CH4 Record (Aud)

TEST CONDITIONS AND DATA

Output Terminal Conducted Spurious Emission

◆ Test Equipment Used

Model Name	Manufacturer	Description
8566B	Hewlett Packard	Spectrum Analyzer
85685A	Hewlett Packard	RF preselector
RAM	Rohde & Schwarz	Matching Pad
PM5418	FLUKE	Pattern Generator

◆ Auxiliary Equipment Used

Model Name	Manufacturer	Descriptions
14C5T BLU	Daewoo Electronics.	Color TV Receiver

◆ Accessories including cables

Name	Length	Port and Descriptions
RCA	1.5m	Video / Audio

◆ Environmental Conditions

Temperature	20°C
Humidity	49 %
Atmosphere pressure	1002mbar

◆ Test Program Playback and record mode

◆ Test Area Compact Chamber

Note : Limit Calculation (Sec 15.115(b) (2) (ii))

$$10.95 \times 75^{1/2} \mu V = 95 \mu V = 39.55 \text{ dBuV}$$

$$\text{plus } 30\text{dB} = 69.55\text{dBuV} = -37.45\text{dBm}$$

Above plus 30dB means the test result(Plots) include the modulated video and audio signal. You can see there was no significant emission more than 39.55dBuV in following test plots except the modulated signals.

The test were performed with color bar as VITS. The VITS signals, 1V and 5V peak-to-peak, were used for channel 3 and channel 4 with alternate. The above test program were employed for each channel.

Output Terminal Conducted Spurious Emission

TV CH	Freq. (MHz)	Level (dBuV)	Limit (dBuV)	Mode	Margin (dB)
3	61.00	54.5	69.55	Playback	15.05
3	61.00	57.4	69.55	Record	12.15
4	66.90	55.8	69.55	Playback	13.75
4	66.90	56.4	69.55	Record	13.15

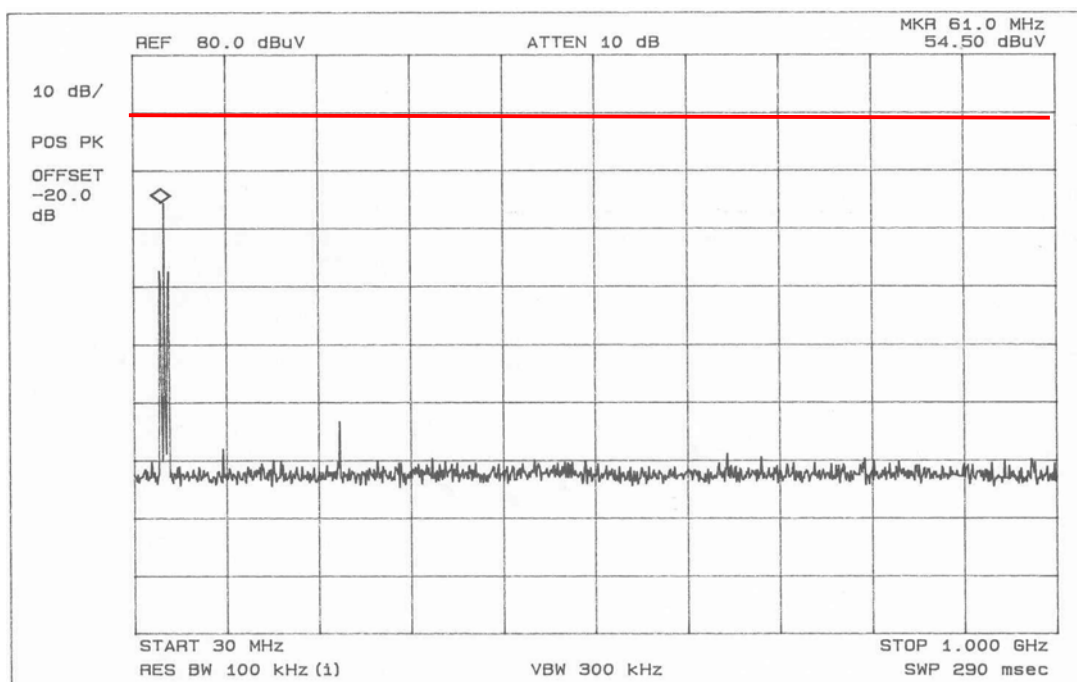
Spurious Emission Tabulated Data with Tuner
 (LG Innotek Co., Ltd. Model: **TADM-H201F**)

TV CH	Freq. (MHz)	Level (dBuV)	Limit (dBuV)	Mode	Margin (dB)
3	61.00	55.2	69.55	Playback	14.35
3	61.00	55.2	69.55	Record	14.35
4	66.90	54.3	69.55	Playback	15.25
4	66.90	54.2	69.55	Record	15.35

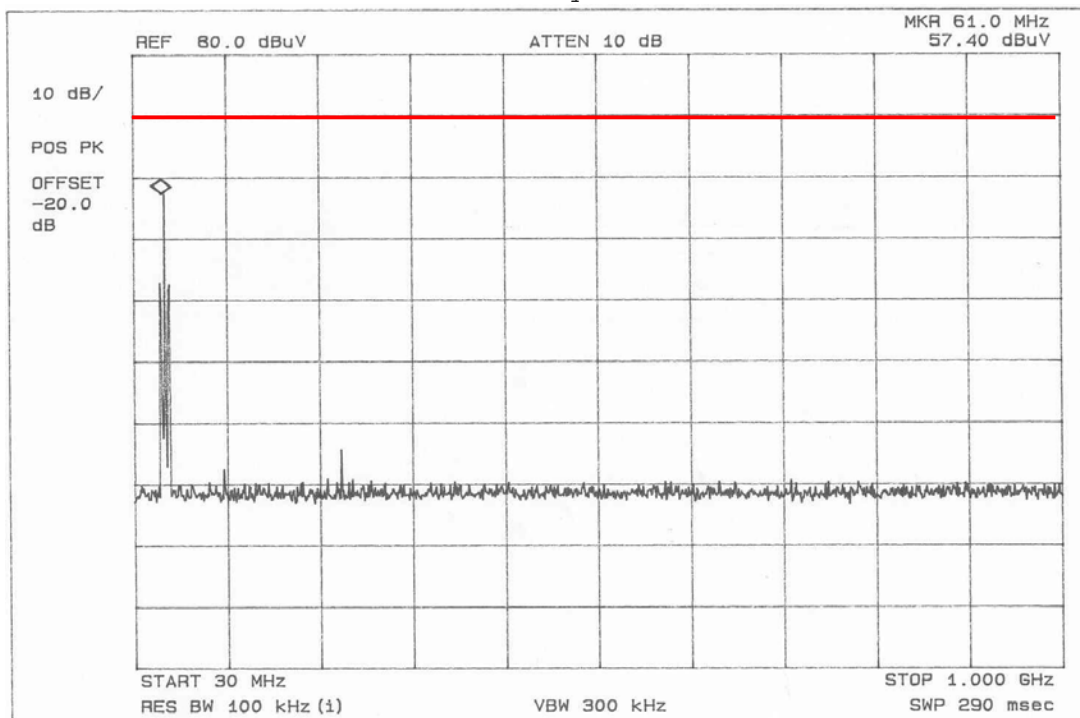
Spurious Emission Tabulated Data with Tuner
 (Korea Alps Model: **TMZH2-030A**)

Output Terminal Conducted Spurious Emission

Tuner: TADM-H201F (LG)



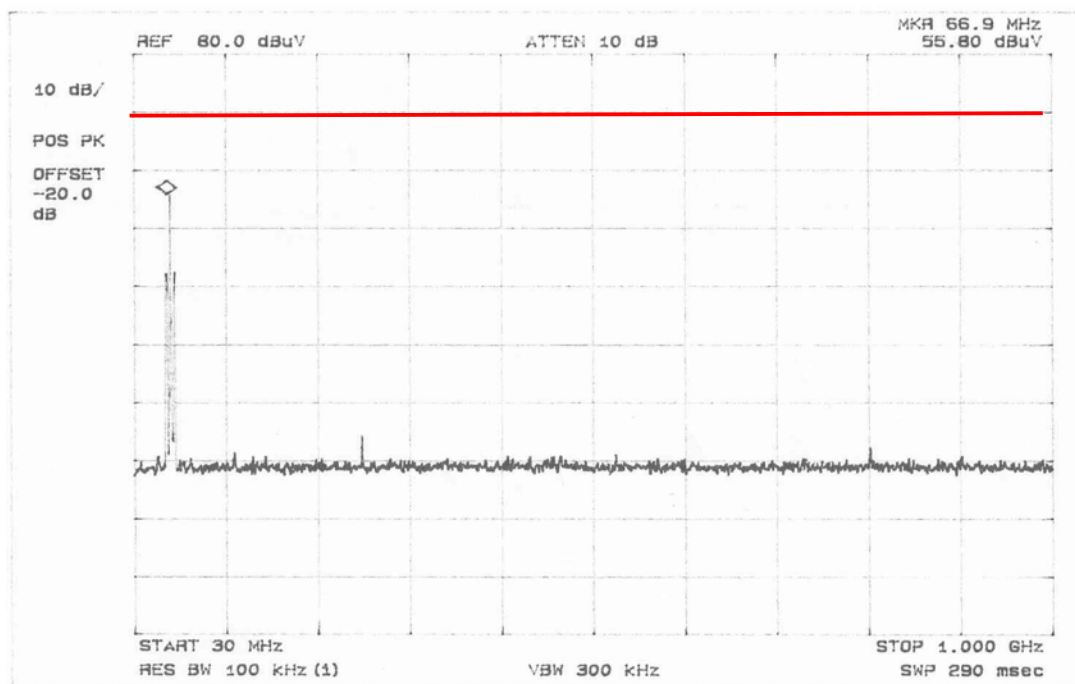
CH3 Playback



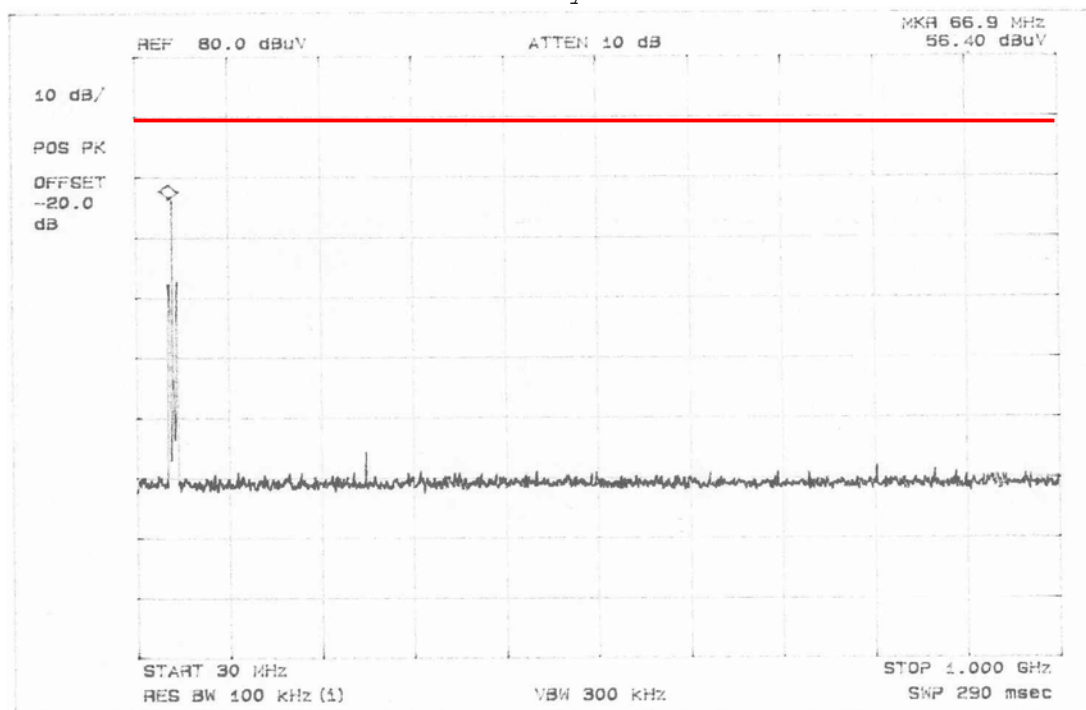
CH3 Record

Output Terminal Conducted Spurious Emission

Tuner: TADM-H201F (LG)



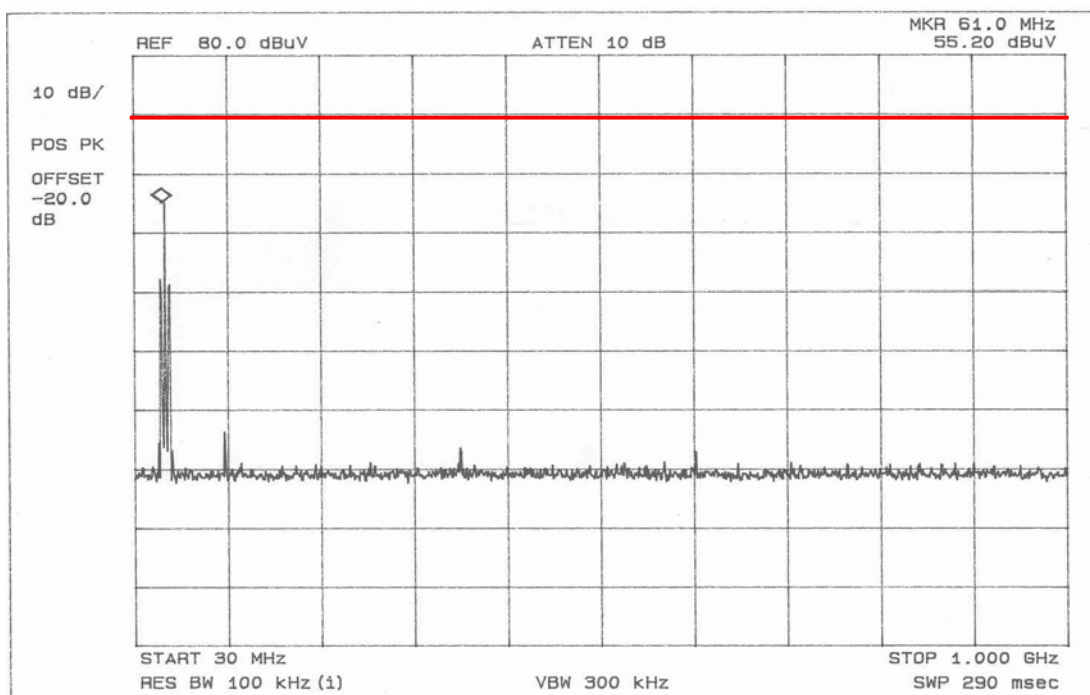
CH4 Playback



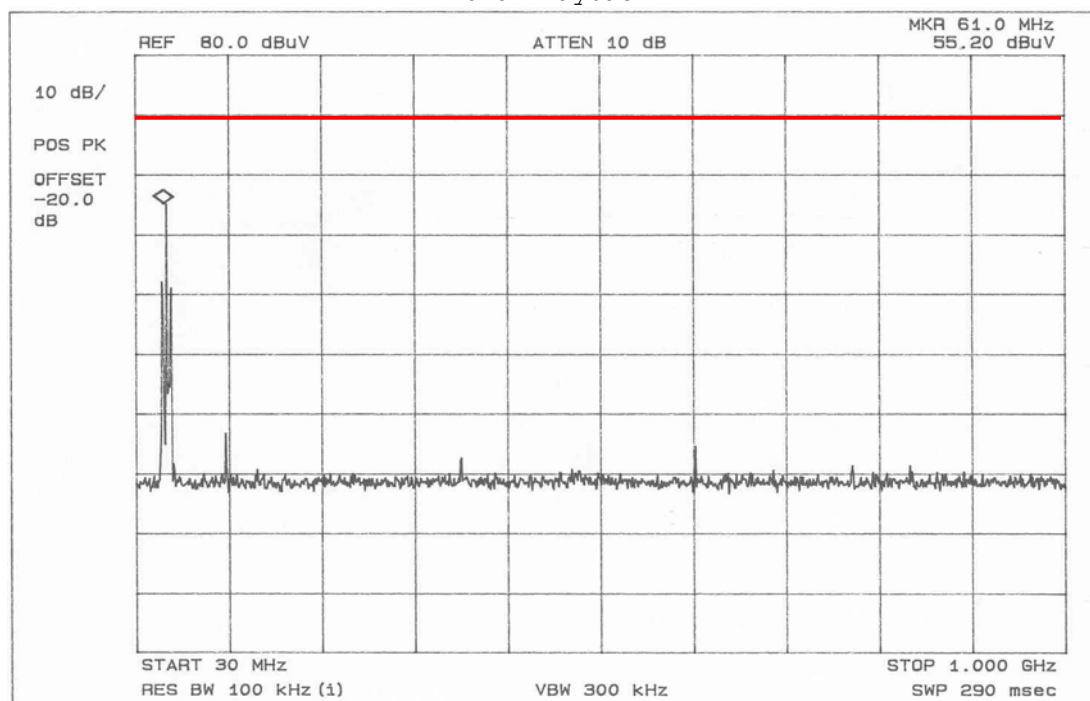
CH4 Record

Output Terminal Conducted Spurious Emission

Tuner: TMZH2-030A (ALPS)



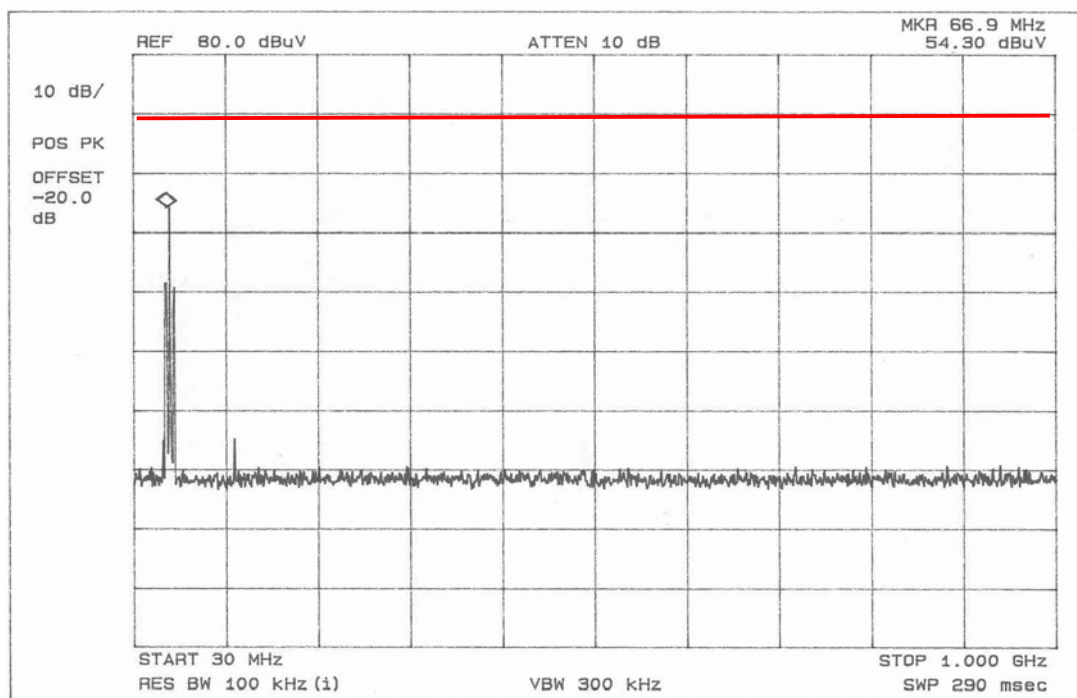
CH3 Playback



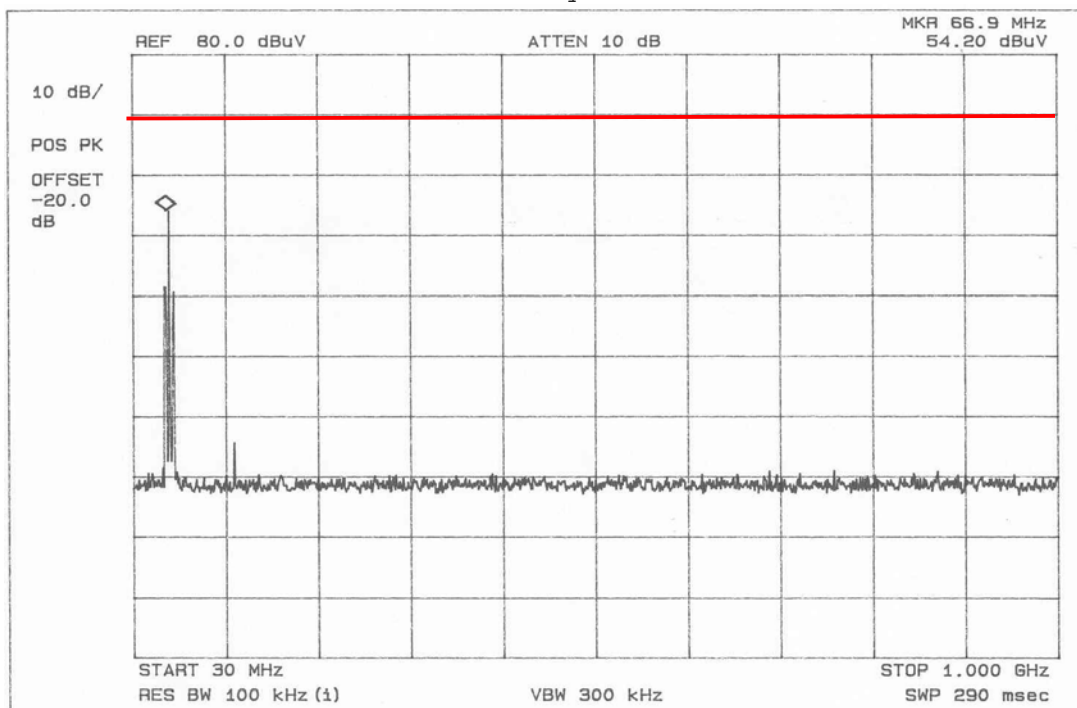
CH3 Record

Output Terminal Conducted Spurious Emission

Tuner: TMZH2-030A (ALPS)



CH4 Playback



CH4 Record

TEST CONDITIONS AND DATA

Transfer Switch Isolation Measurement

◆ Test Equipment Used

Model Name	Manufacturer	Description
8566B	Hewlett Packard	Spectrum Analyzer
85685A	Hewlett Packard	RF preselector
RAM	Rohde & Schwarz	Matching Pad
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Model Name	Manufacturer	Descriptions
14C5T BLU	Daewoo Electronics.	Color TV Receiver

◆ Accessories including cables

Name	Length	Port and Descriptions
RCA	1.5m	Video / Audio

◆ Environmental Conditions

Temperature	20°C
Humidity	49 %
Atmosphere pressure	1002mbar

◆ Test Program Playback and record mode

◆ Test Area Compact Chamber

Note : Transfer switch isolation measurements were made on the Channel 3 and 4 video output frequencies of 61.25 and 67.25 MHz and both position of the transfer switch.

Limit calculation(Sec 15.115 (c) (1) (ii))

$$0.346 \times 75^{1/2} = 2.996\mu V = 9.53\text{dBuV} = -97.46\text{dBm}$$

The test were performed with color bar as VITS. The VITS signals, 1V and 5V peak-to-peak, were used for channel 3 and channel 4 with alternate. The above test program were employed for each channel.

Transfer Switch Isolation Measurement

TV CH	Freq. (MHz)	Level (dBuV)	Limit (dBuV)	Mode	Margin (dB)
3	61.25	5.80	9.53	Playback	3.73
3	61.25	6.00	9.53	Record	3.53
4	67.25	5.73	9.53	Playback	3.80
4	67.25	5.94	9.53	Record	3.59

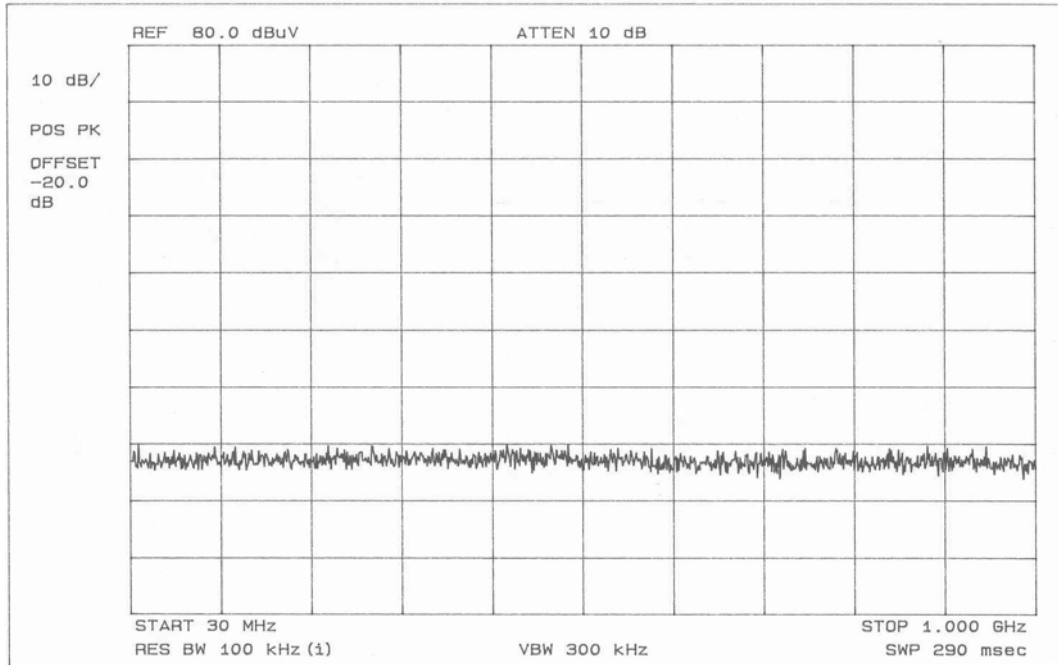
Transfer Switch Tabulated Data with Tuner
 (LG Innotek Co., Ltd. Model: **TADM-H201F**)

TV CH	Freq. (MHz)	Level (dBuV)	Limit (dBuV)	Mode	Margin (dB)
3	61.25	5.64	9.53	Playback	3.89
3	61.25	5.77	9.53	Record	3.76
4	67.25	5.84	9.53	Playback	3.69
4	67.25	5.53	9.53	Record	4.00

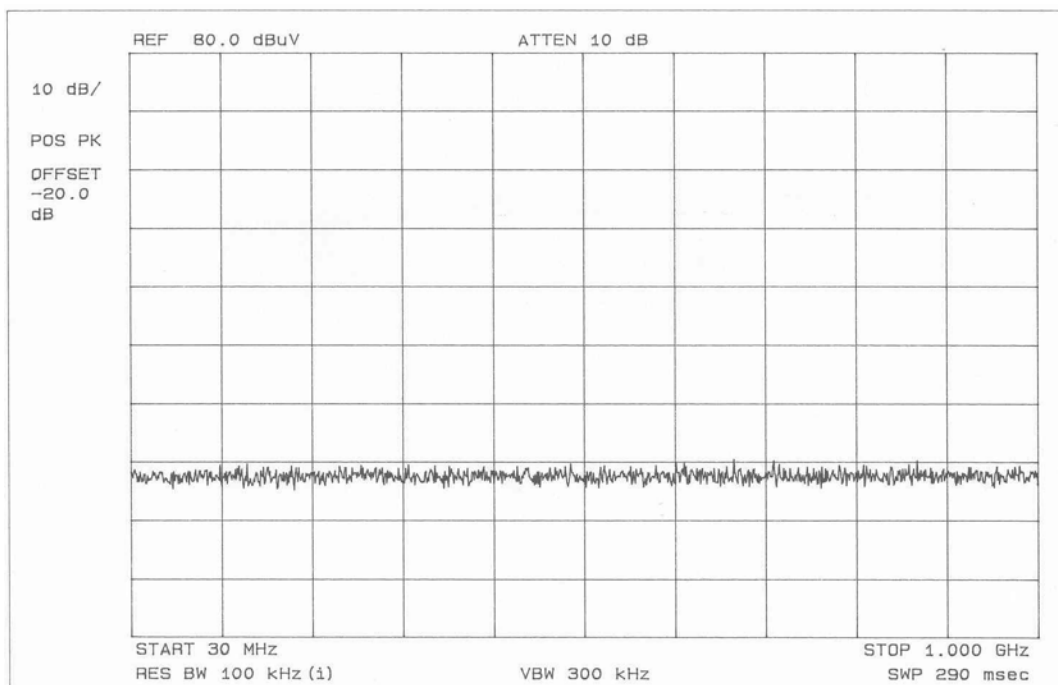
Transfer Switch Tabulated Data with Tuner
 (ALPS Electric Model: **TMZH2-030A**)

Transfer Switch Isolation Measurement

Tuner: TADM-H201F (LG)



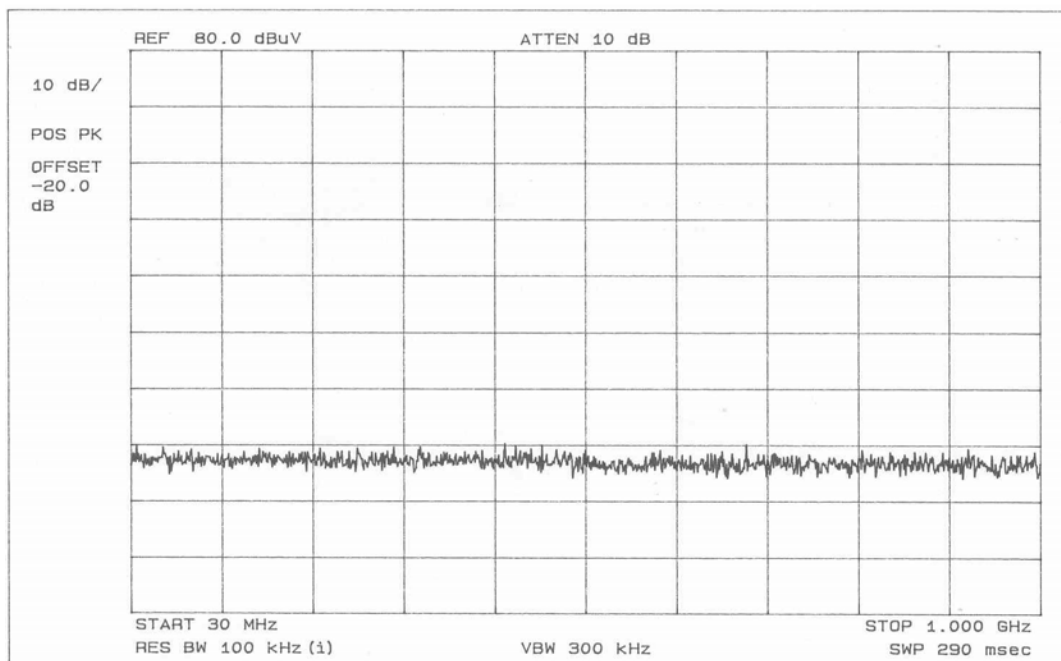
CH3 Playback



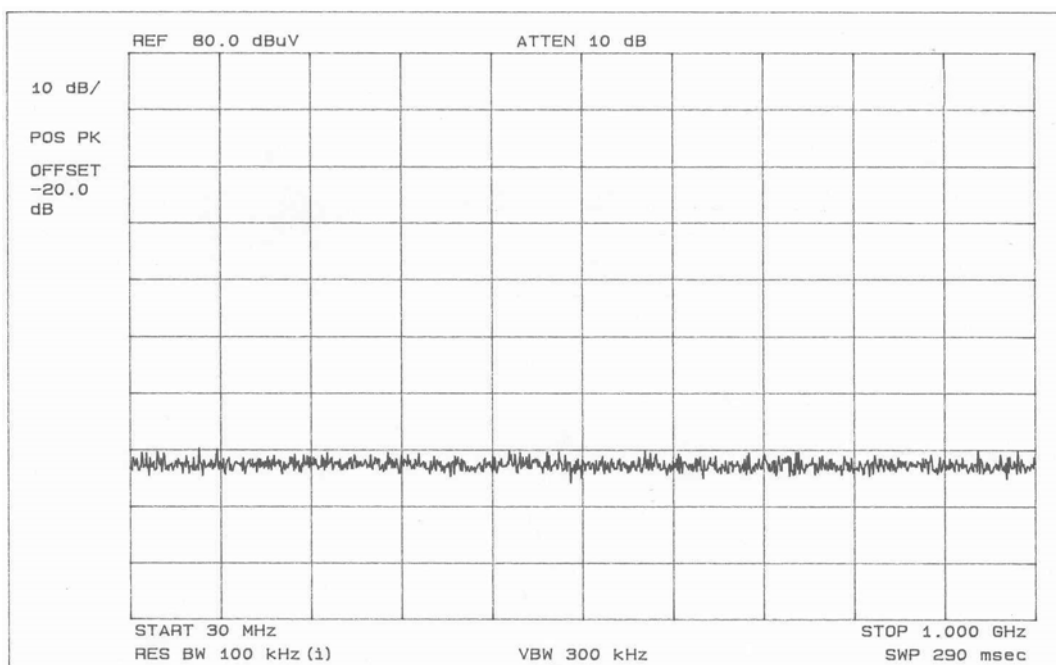
CH3 Record

Transfer Switch Isolation Measurement

Tuner: TADM-H201F (LG)



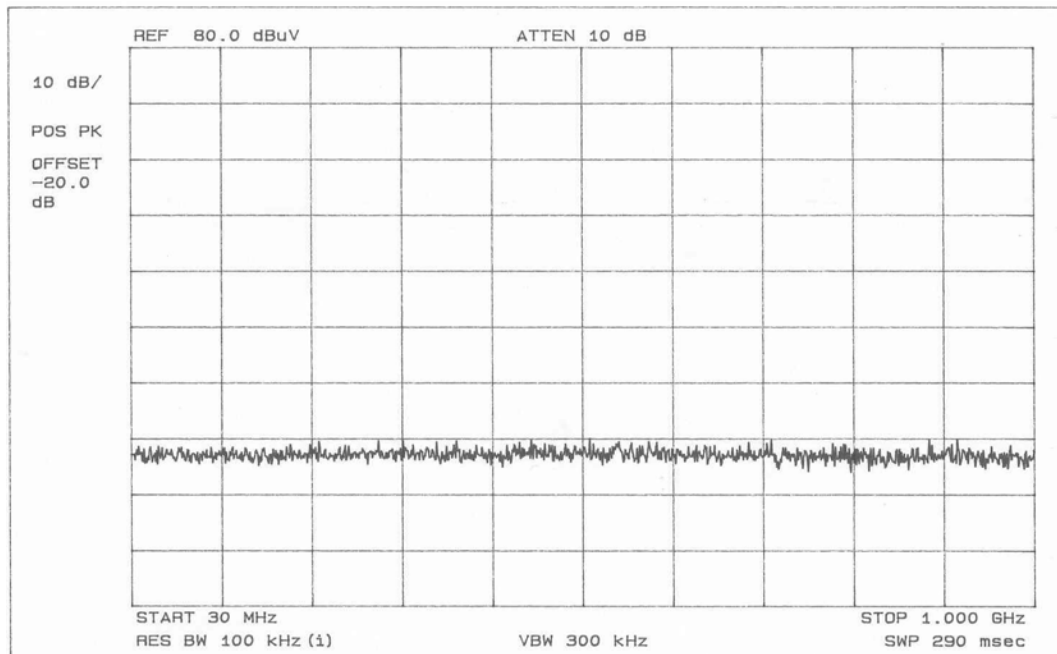
CH4 Playback



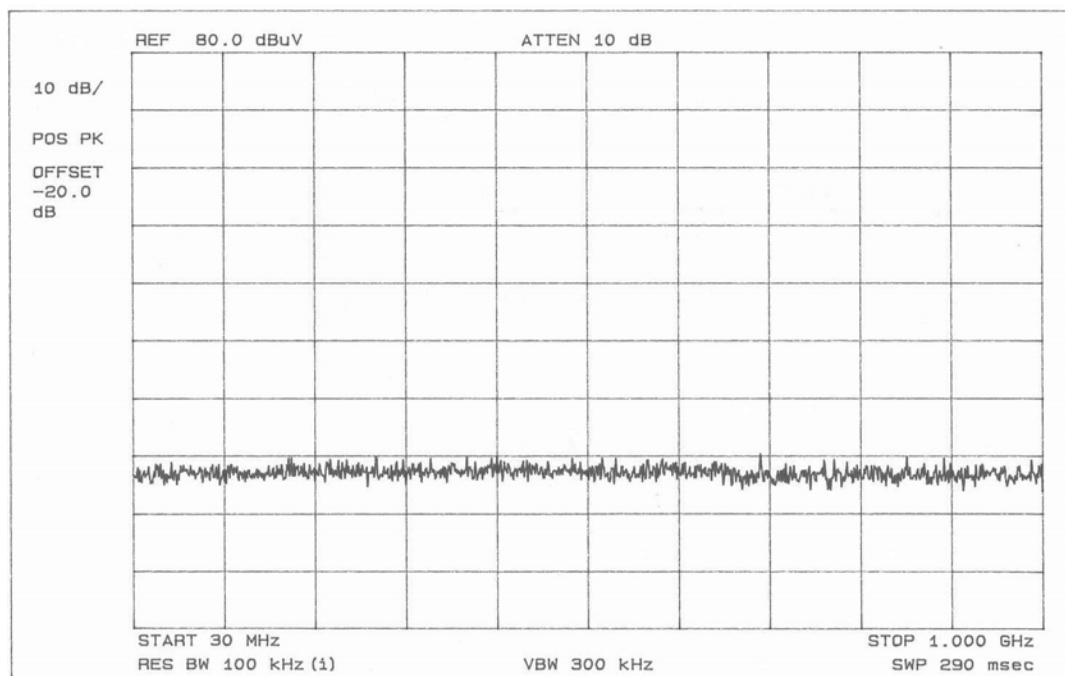
CH4 Record

Transfer Switch Isolation Measurement

Tuner: TMZH2-030A (ALPS)



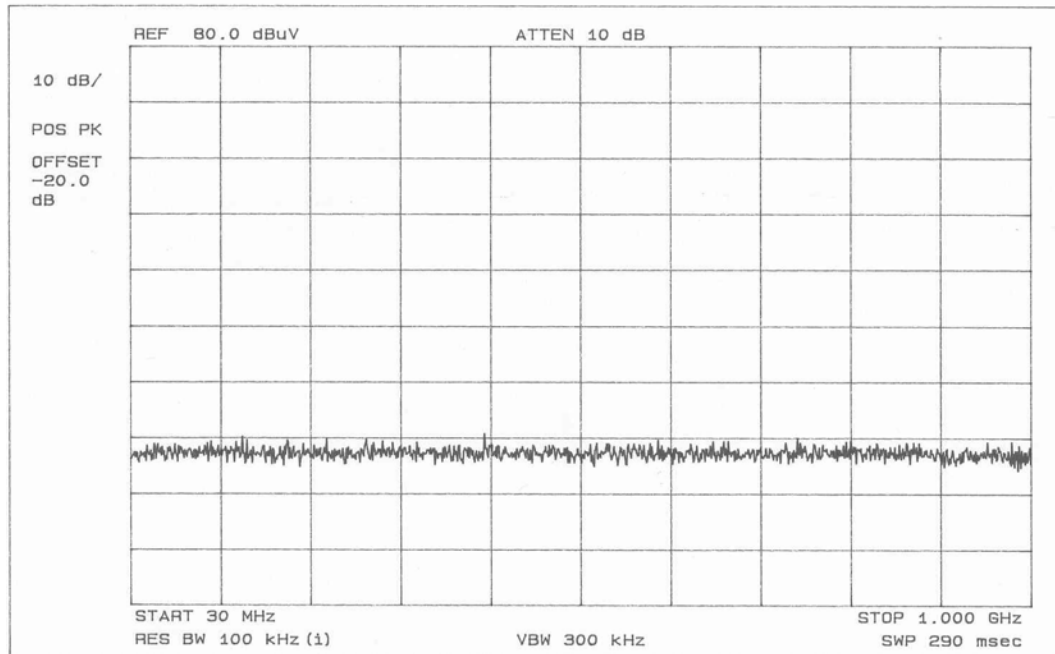
CH3 Playback



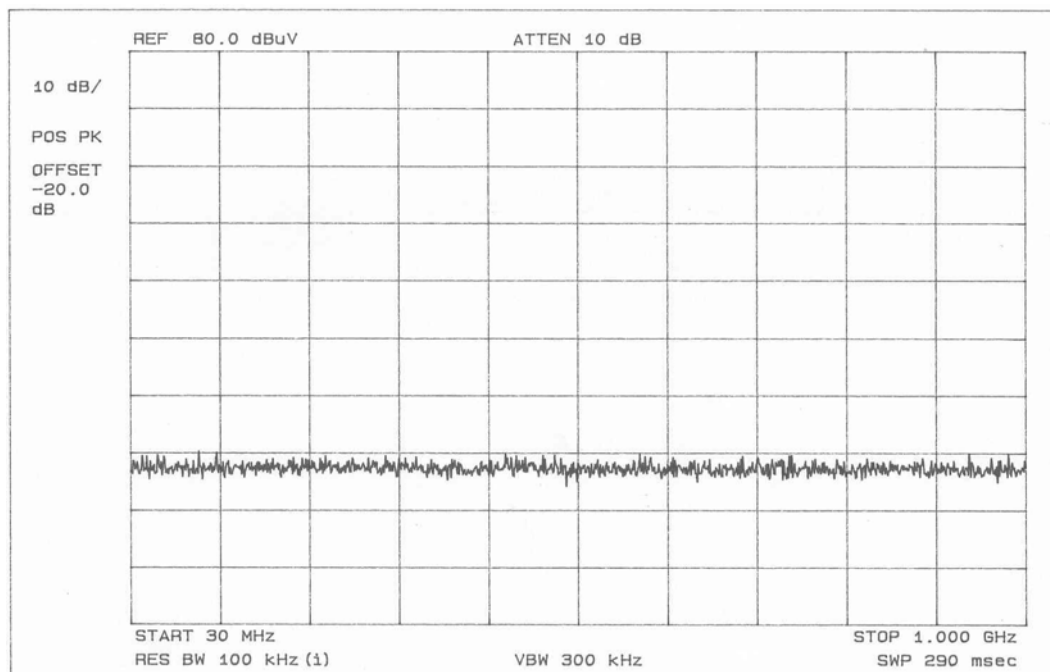
CH3 Record

Transfer Switch Isolation Measurement

Tuner: TMZH2-030A (ALPS)



CH4 Playback



CH4 Record