TEST CONDITIONS AND DATA

Output Signal Level Measurements

◆ Test Equipment Used

Model Name	Manufacturer	Description	Next Cal. Date
8566B	Hewlett Packard	Spectrum Analyzer	Jul. 13, 2002
85685A	Hewlett Packard	RF preselector	Jul. 13, 2002
RAM	Rohde & Schwarz	Matching Pad	Sep. 21, 2002

◆ External Peripherals

Device Description	Model Name	Manufacture	FCC Compliance Information
TV Receiver	F19430	Daewoo	Verification

◆ Test Program Playback and record mode

◆ Test Area Compact Chamber

Note : Limit Calculations

For Video Signal

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

For Audio Signal

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

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.

Find the test data in following page(s) 52 to 76.

Output Signal Level Measurements

TV CH.	Freq.(MHz)	Level(dBuV)	Limit(dBuV)	Mode	Margin(dB)
3(Pix)	61.28	59.6	69.54	Playback	-9.94
3(Aud)	57.70	26.7	56.53	Playback	-29.83
3(Pix)	61.28	57.6	69.54	Record	-11.94
3(Aud)	56.77	27.1	56.53	Record	-29.43
4(Pix)	67.28	57.4	69.54	Playback	-12.14
4(Aud)	62.77	43.2	56.53	Playback	-13.33
4(Pix)	67.27	57.5	69.54	Record	-12.04
4(Aud)	62.75	43.2	56.53	Record	-13.33

Output Signal Tabulated Data with Tuner

(LG Innotek Co., Ltd. Model: **LGTMI-US2-S**)

Output Signal Level Measurements

TV CH.	Freq.(MHz)	Level(dBuV)	Limit(dBuV)	Mode	Margin(dB)
3(Pix)	61.28	59.9	69.54	Playback	-9.64
3(Aud)	65.81	41.6	56.53	Playback	-14.93
3(Pix)	61.29	56.6	69.54	Record	-12.94
3(Aud)	65.80	41.5	56.53	Record	-15.03
4(Pix)	67.26	56.6	69.54	Playback	-12.94
4(Aud)	62.73	41.8	56.53	Playback	-14.73
4(Pix)	67.26	56.8	69.54	Record	-12.74
4(Aud)	62.75	41.7	56.53	Record	-14.83

Output Signal Tabulated Data with Tuner

(Korea Alps Model: **ALTMI-US3-S**)

Output Signal Level Measurements

TV CH.	Freq.(MHz)	Level(dBuV)	Limit(dBuV)	Mode	Margin(dB)
3(Pix)	61.28	57.6	69.54	Playback	-11.94
3(Aud)	65.81	43.4	56.53	Playback	-13.13
3(Pix)	61.27	57.4	69.54	Record	-12.14
3(Aud)	65.81	43.5	56.53	Record	-13.03
4(Pix)	67.27	57.7	69.54	Playback	-11.84
4(Aud)	62.74	43.5	56.53	Playback	-13.03
4(Pix)	67.27	57.7	69.54	Record	-11.84
4(Aud)	62.75	43.5	56.53	Record	-13.03

Output Signal Tabulated Data with Tuner

(LG Innotek Co., Ltd. Model: **LGTMI-US4-S**)

Output Signal Level Measurements

TV CH.	Freq.(MHz)	Level(dBuV)	Limit(dBuV)	Mode	Margin(dB)
3(Pix)	61.28	59.4	69.54	Playback	-10.14
3(Aud)	56.76	42.7	56.53	Playback	-13.83
3(Pix)	61.28	59.5	69.54	Record	-10.04
3(Aud)	65.80	42.5	56.53	Record	-14.03
4(Pix)	67.27	59.4	69.54	Playback	-10.14
4(Aud)	62.76	42.7	56.53	Playback	-13.83
4(Pix)	67.27	59.3	69.54	Record	-10.24
4(Aud)	62.75	42.7	56.53	Record	-13.83

Output Signal Tabulated Data with Tuner

(Samsung Electric Co., Ltd. Model: **SSTMI-US3-S**)

Output Signal Level Measurements

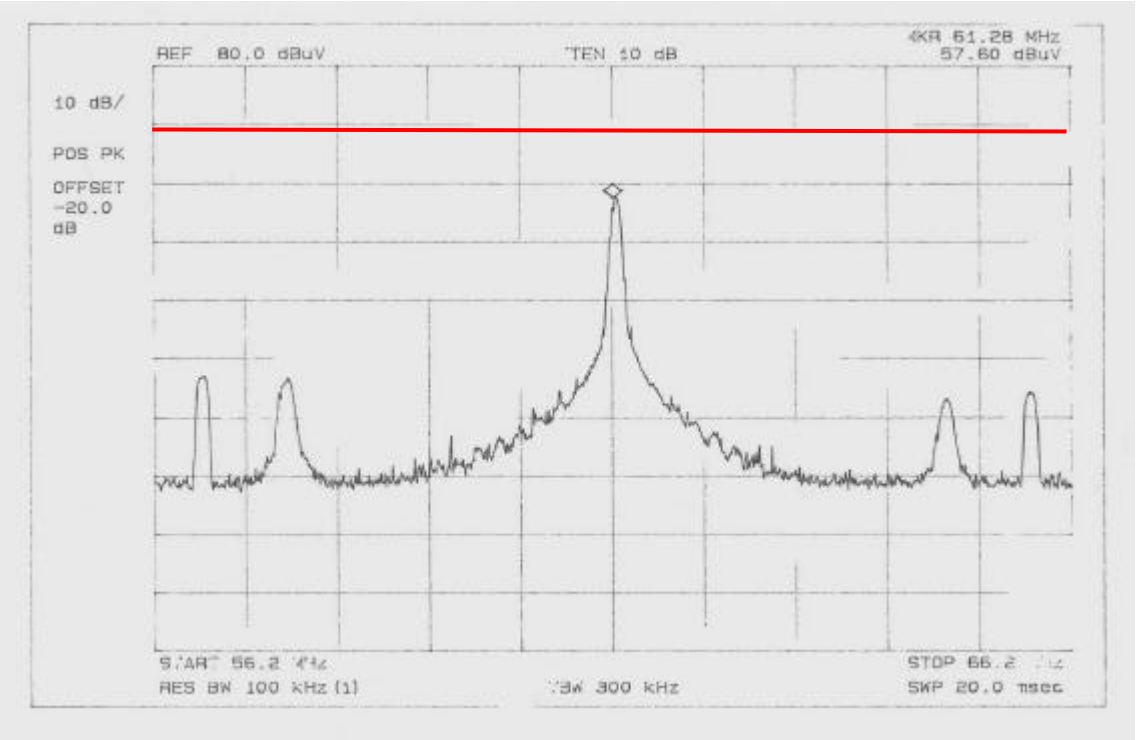
TV CH.	Freq.(MHz)	Level(dBuV)	Limit(dBuV)	Mode	Margin(dB)
3(Pix)	61.27	59.0	69.54	Playback	-10.54
3(Aud)	56.74	43.5	56.53	Playback	-13.03
3(Pix)	61.28	60.2	69.54	Record	-9.34
3(Aud)	56.76	44.6	56.53	Record	-11.93
4(Pix)	67.28	59.6	69.54	Playback	-9.94
4(Aud)	62.76	44.2	56.53	Playback	-12.33
4(Pix)	67.28	59.7	69.54	Record	-9.84
4(Aud)	62.77	43.8	56.53	Record	-12.73

Output Signal Tabulated Data with Tuner

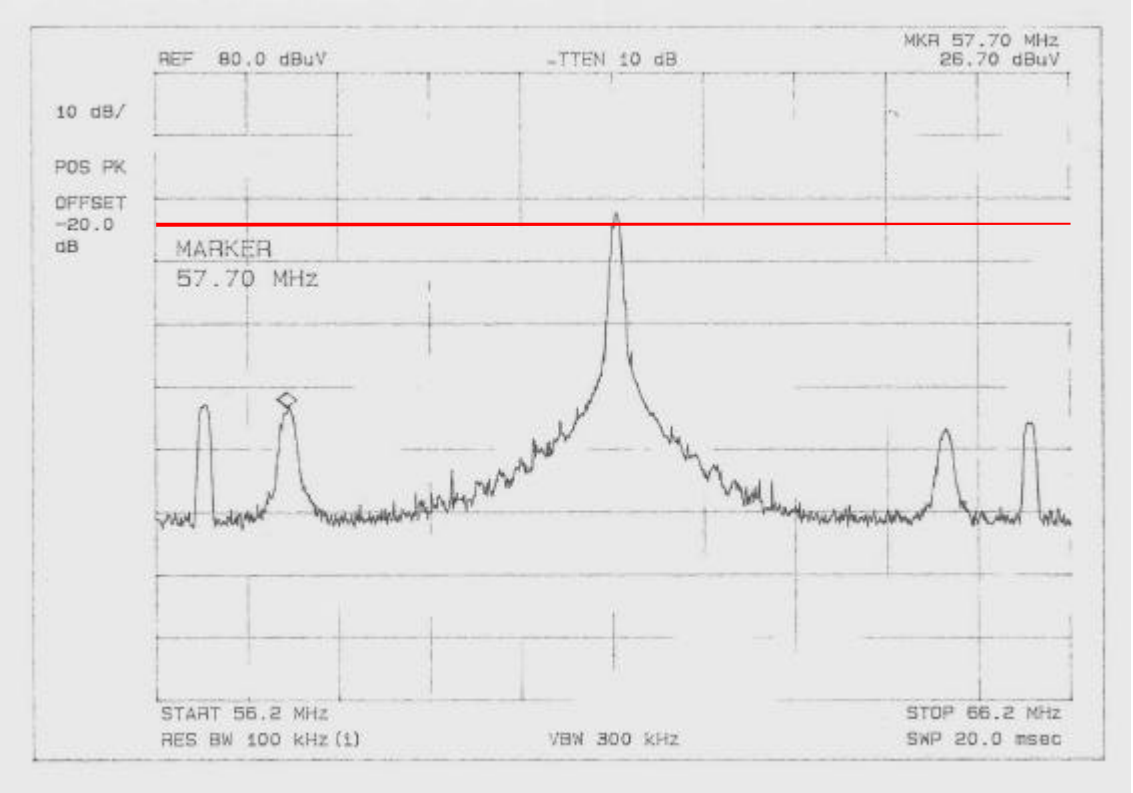
(Sanyo Electronic Co., Ltd. Model: **SATMI-US4-S**)

Output Signal Level Measurements

Tuner: LGTMI-US2-S



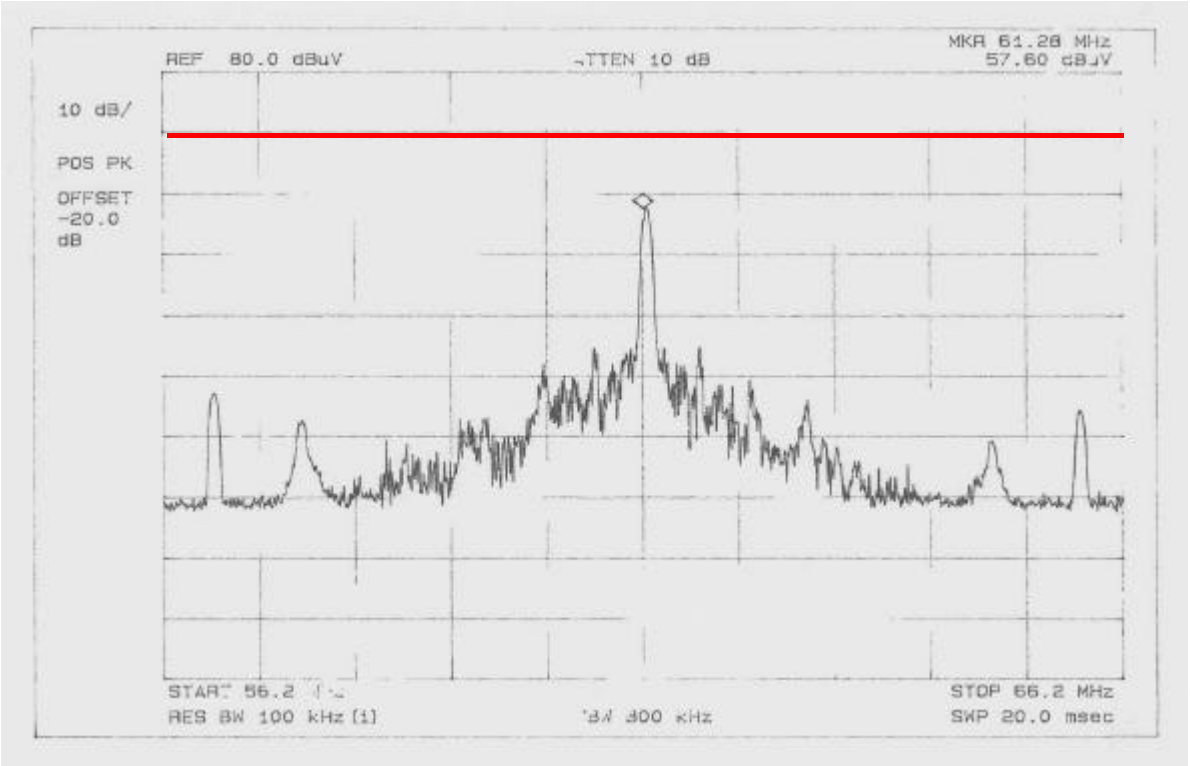
CH3 Playback (Pix)



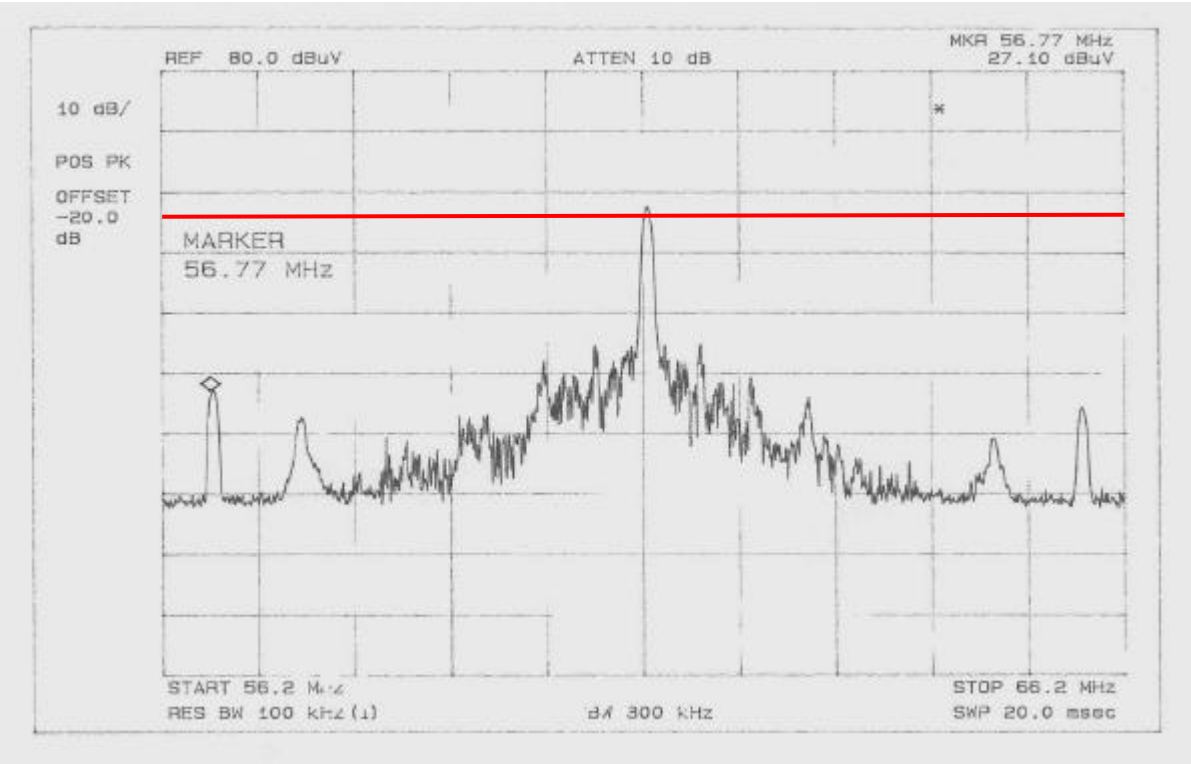
CH3 Playback (Aud)

Output Signal Level Measurements

Tuner: LGTMI-US2-S



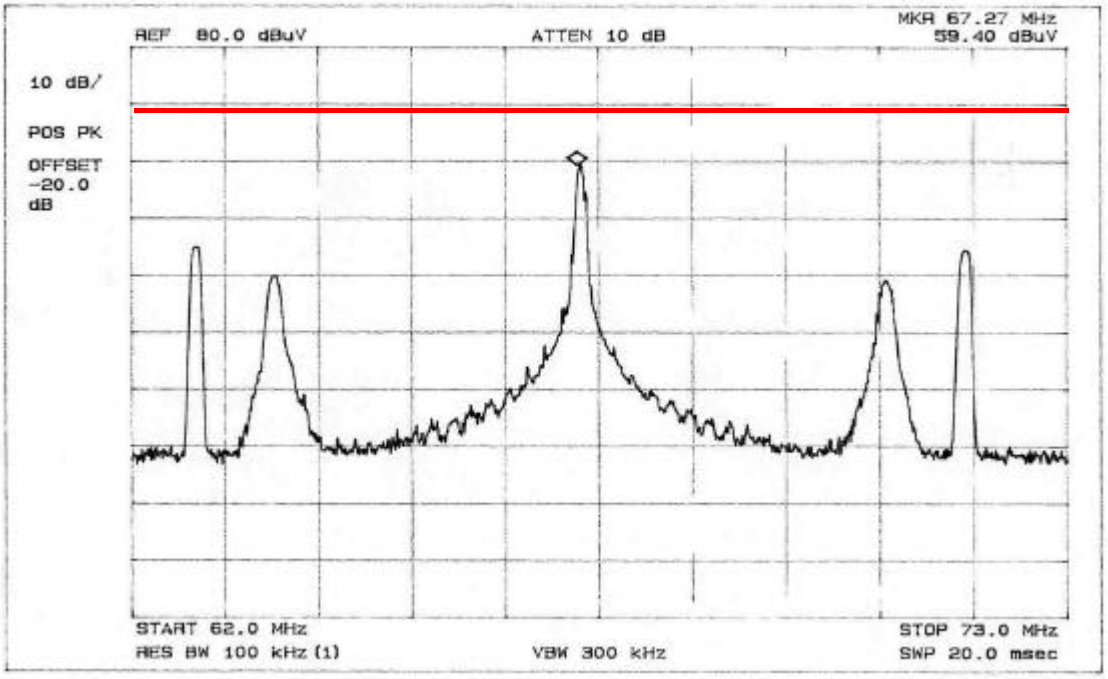
CH3 Record (Pix)



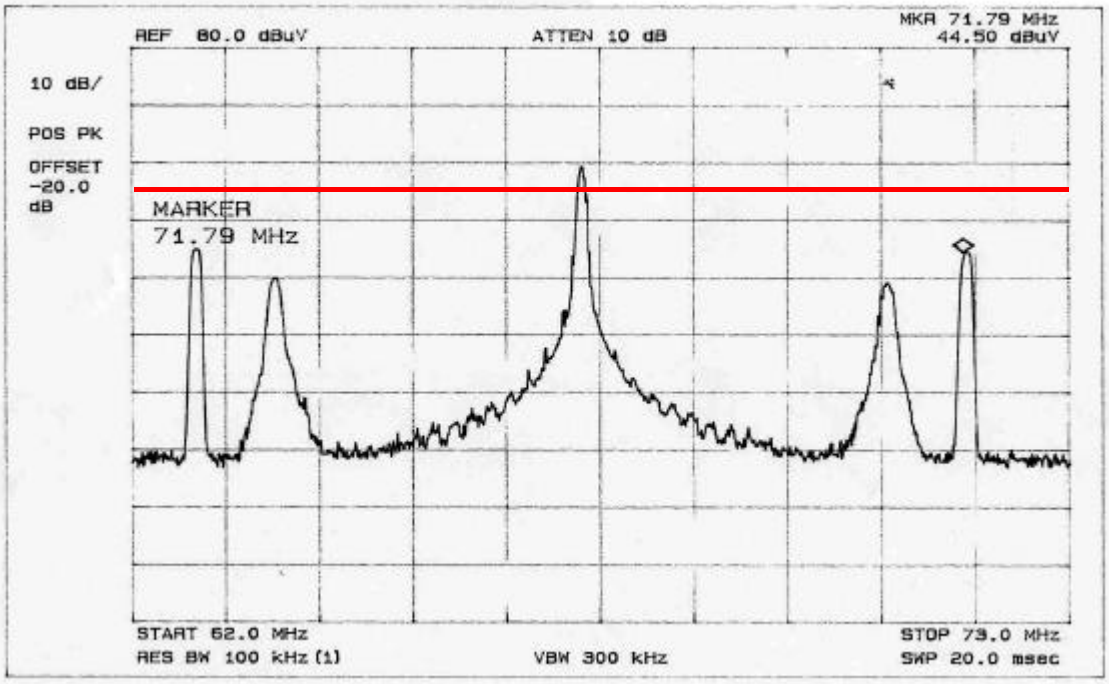
CH3 Record (Aud)

Output Signal Level Measurements

Tuner: LGTMI-US2-S



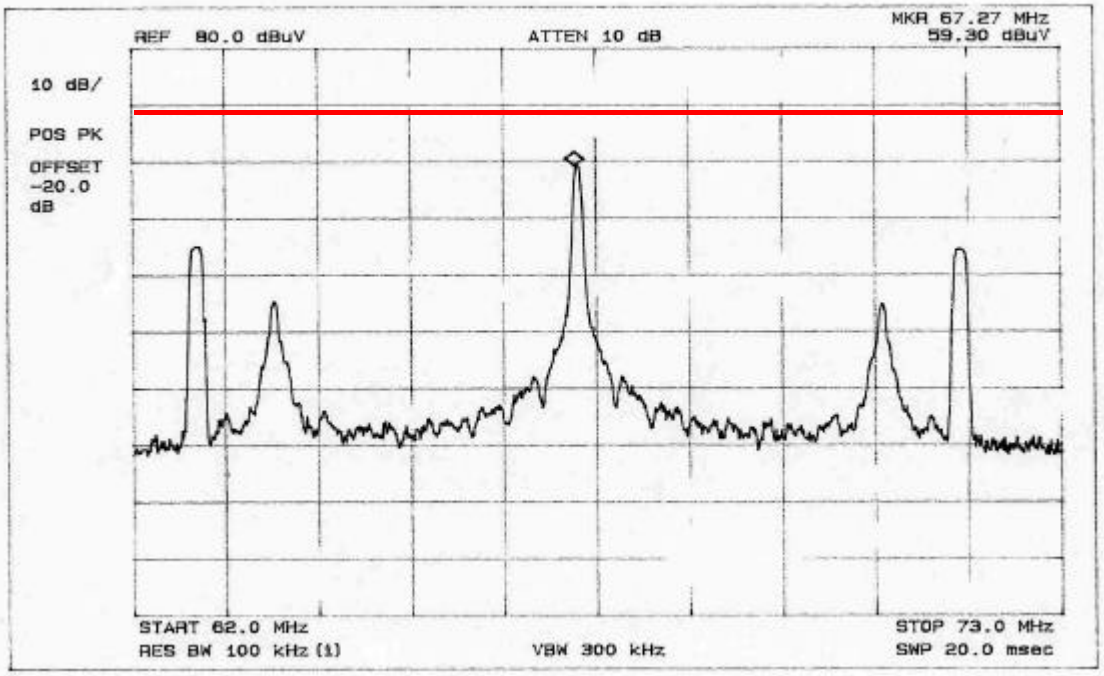
CH4 Playback (Pix)



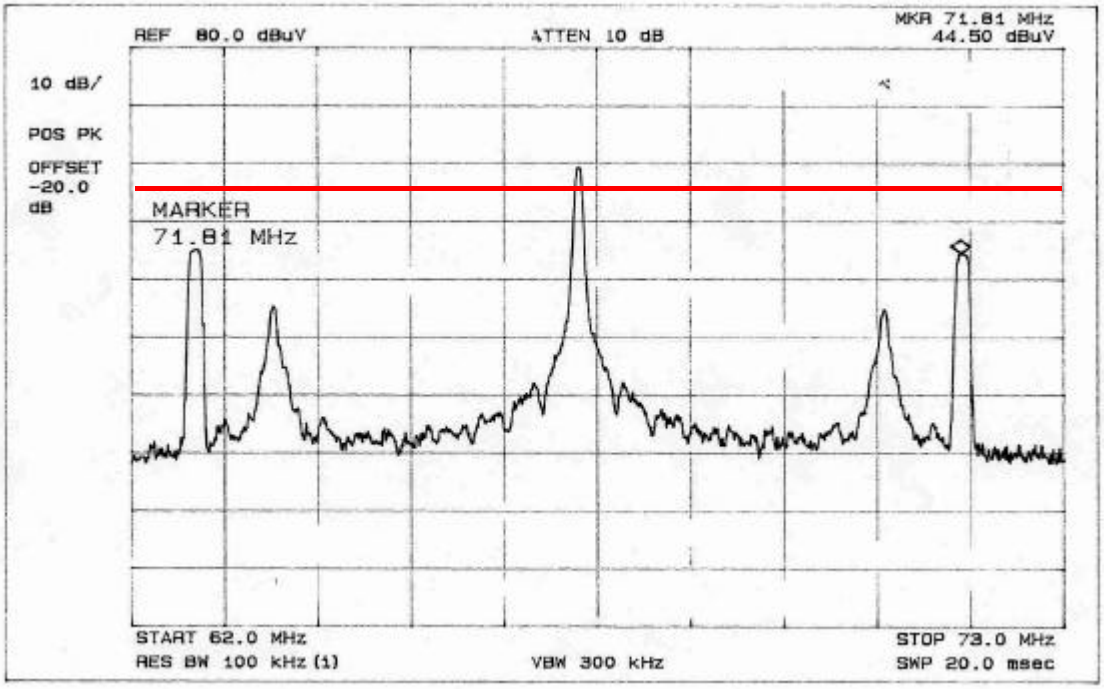
CH4 Playback (Aud)

Output Signal Level Measurements

Tuner: LGTMI-US2-S



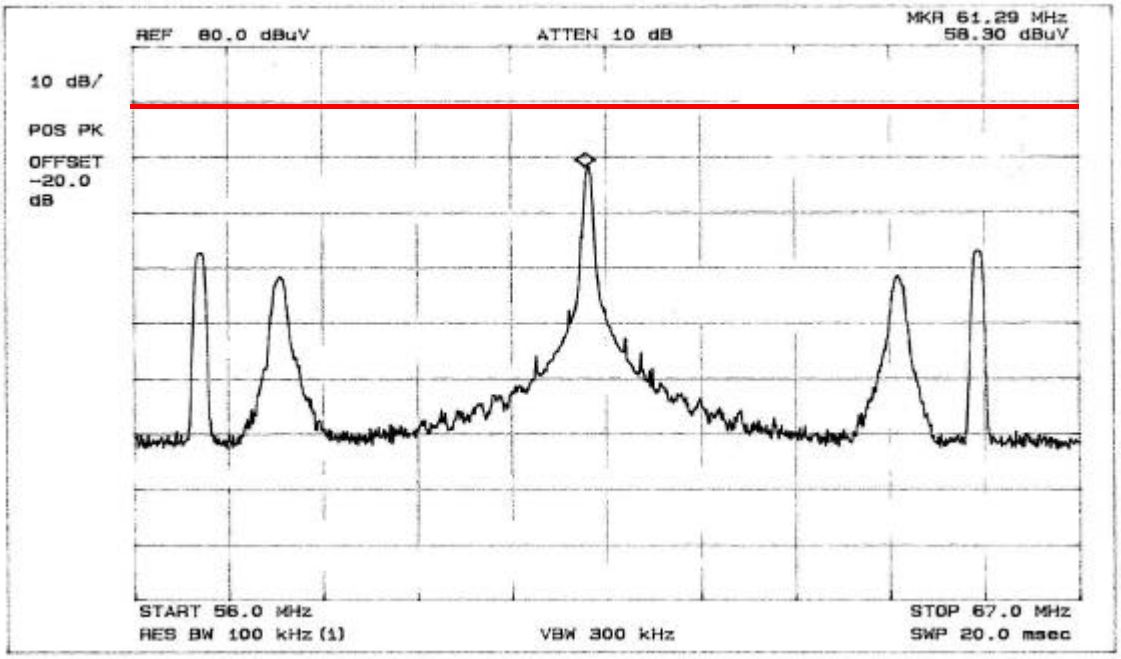
CH4 Record (Pix)



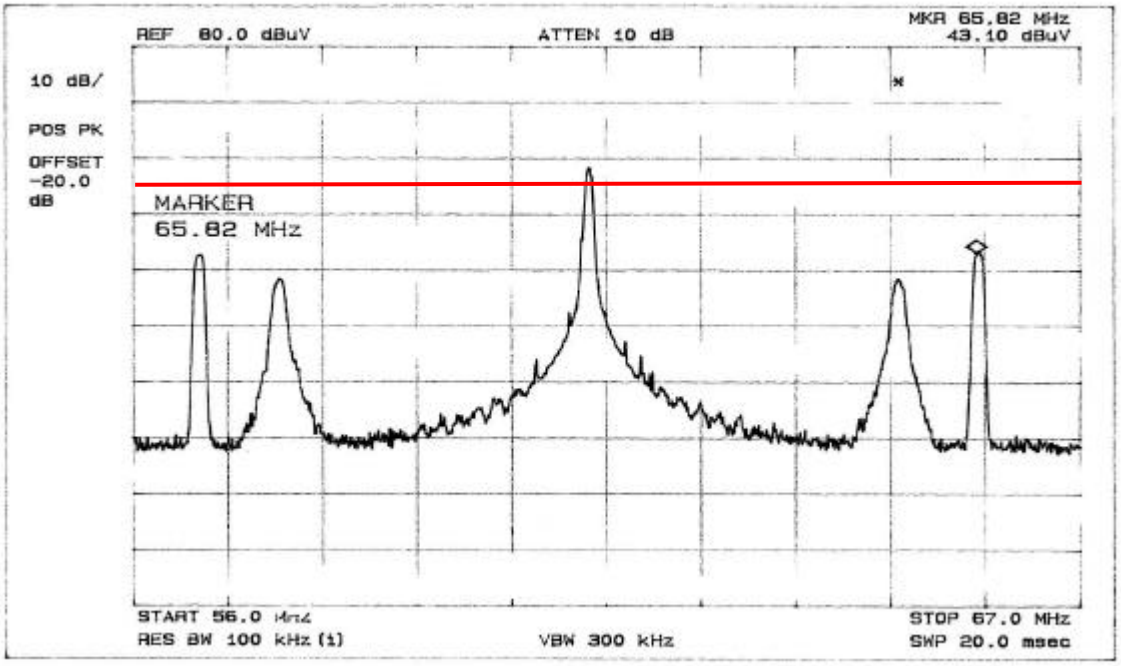
CH4 Record (Aud))

Output Signal Level Measurements

Tuner: ALTMI-US3-S



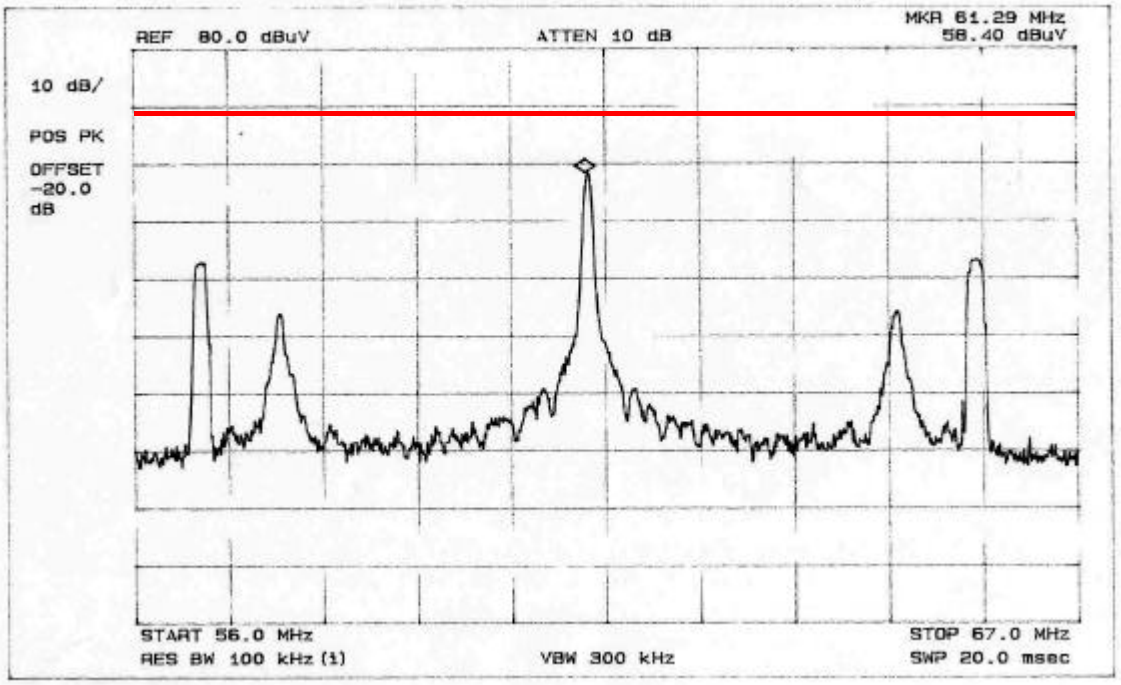
CH3 Playback (Pix)



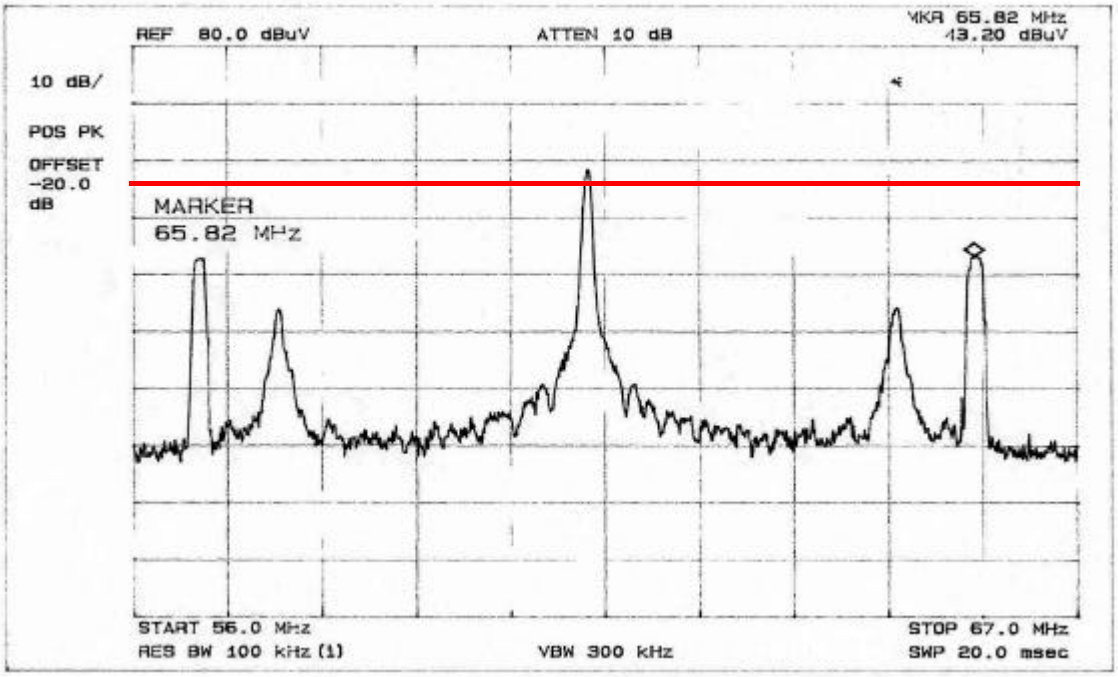
CH3 Playback (Aud)

Output Signal Level Measurements

Tuner: ALTMI-US3-S



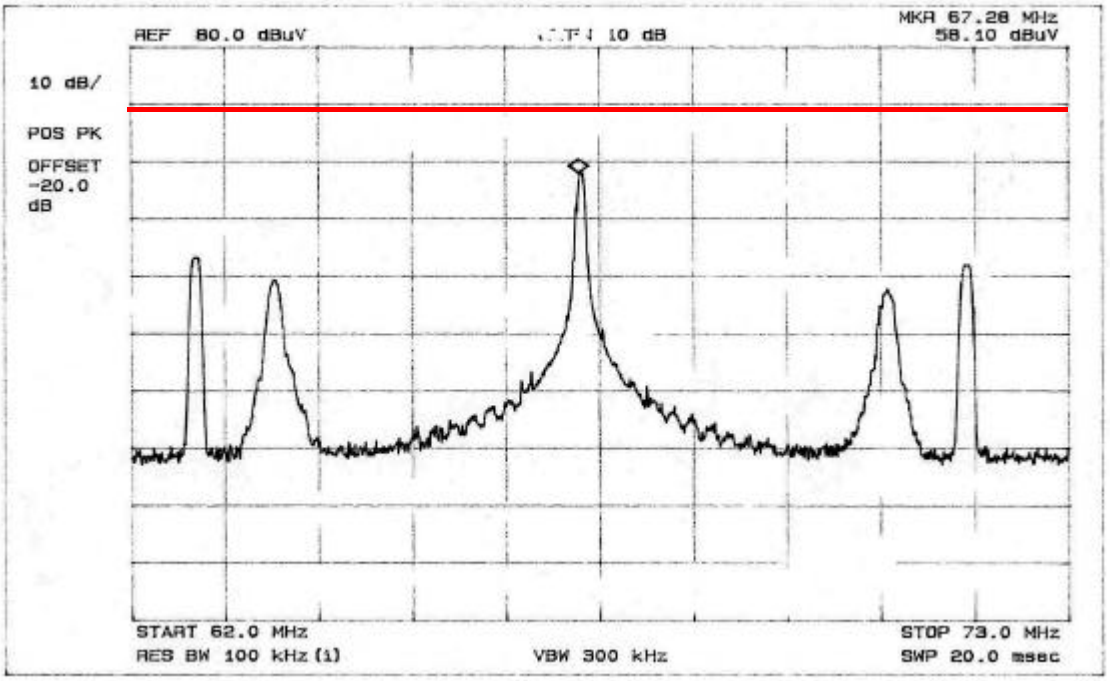
CH3 Record (Pix)



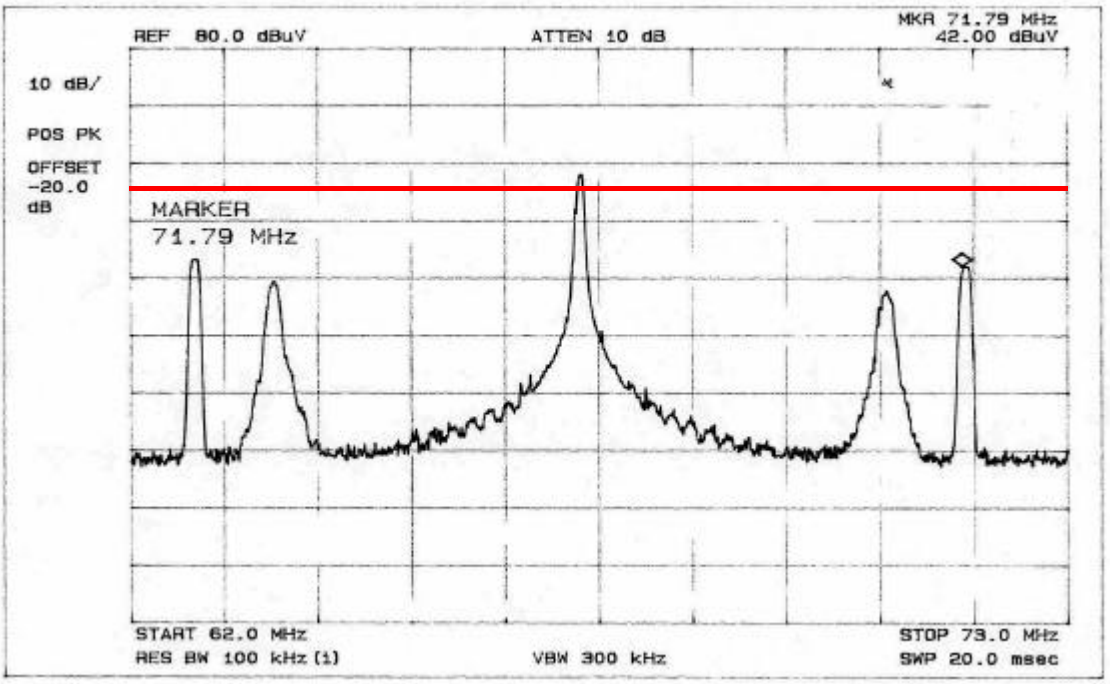
CH3 Record (Aud)

Output Signal Level Measurements

Tuner: ALTMI-US3-S



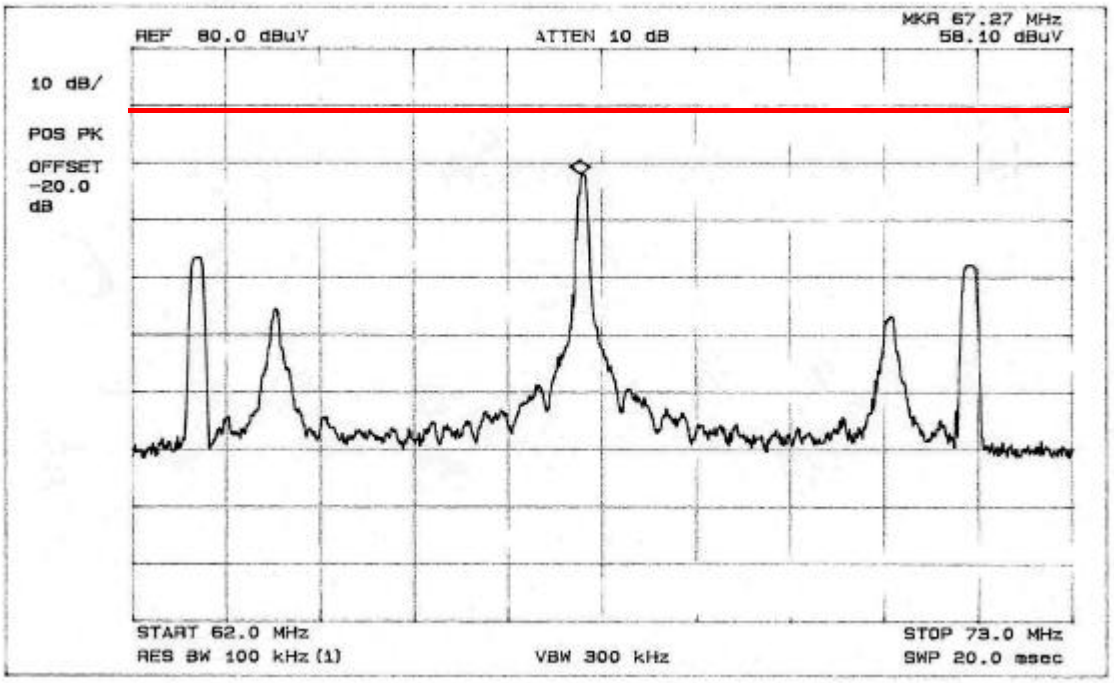
CH4 Playback (Pix)



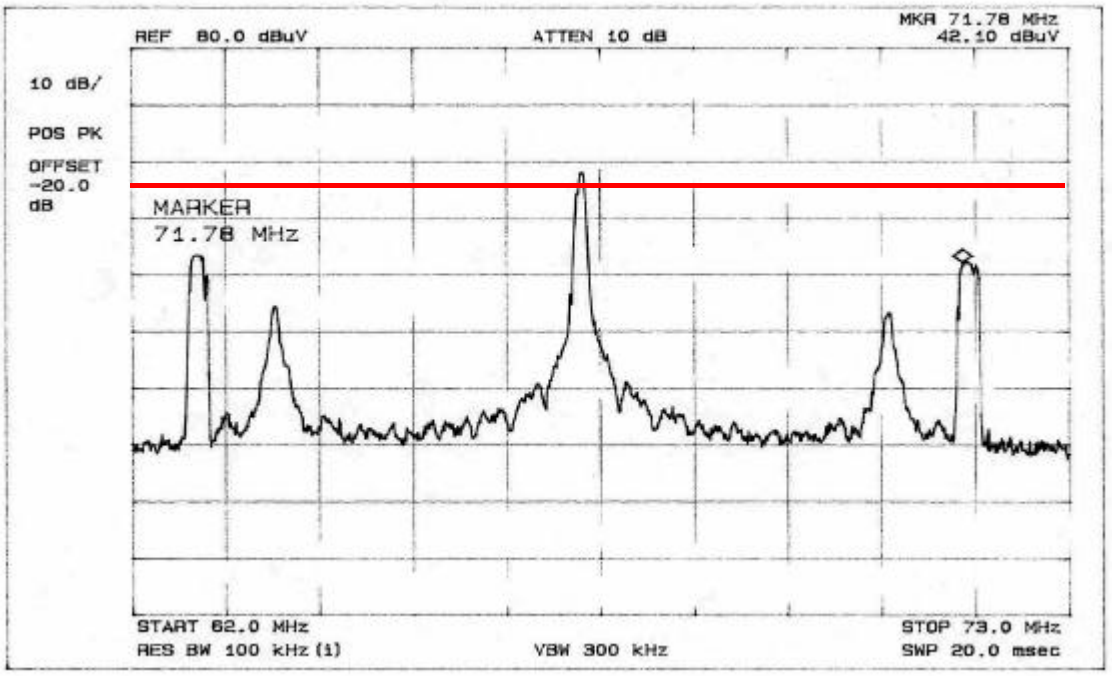
CH4 Playback (Aud)

Output Signal Level Measurements

Tuner: ALTMI-US3-S



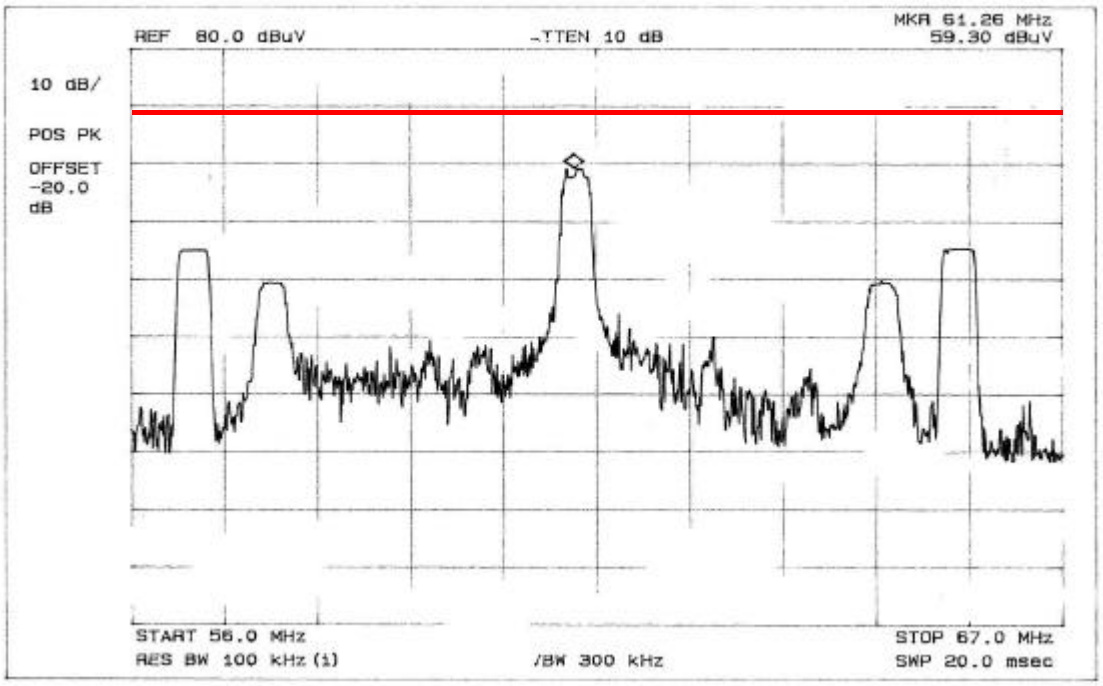
CH4 Record (Pix)



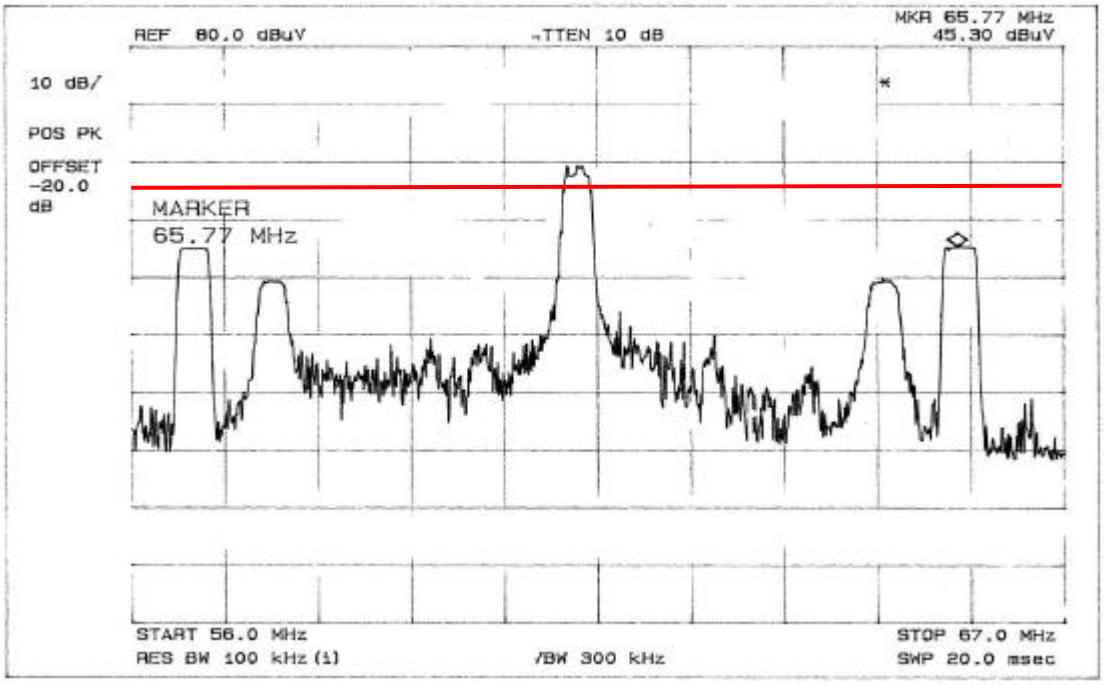
CH4 Record (Aud)

Output Signal Level Measurements

Tuner: LGTMI-US4-S



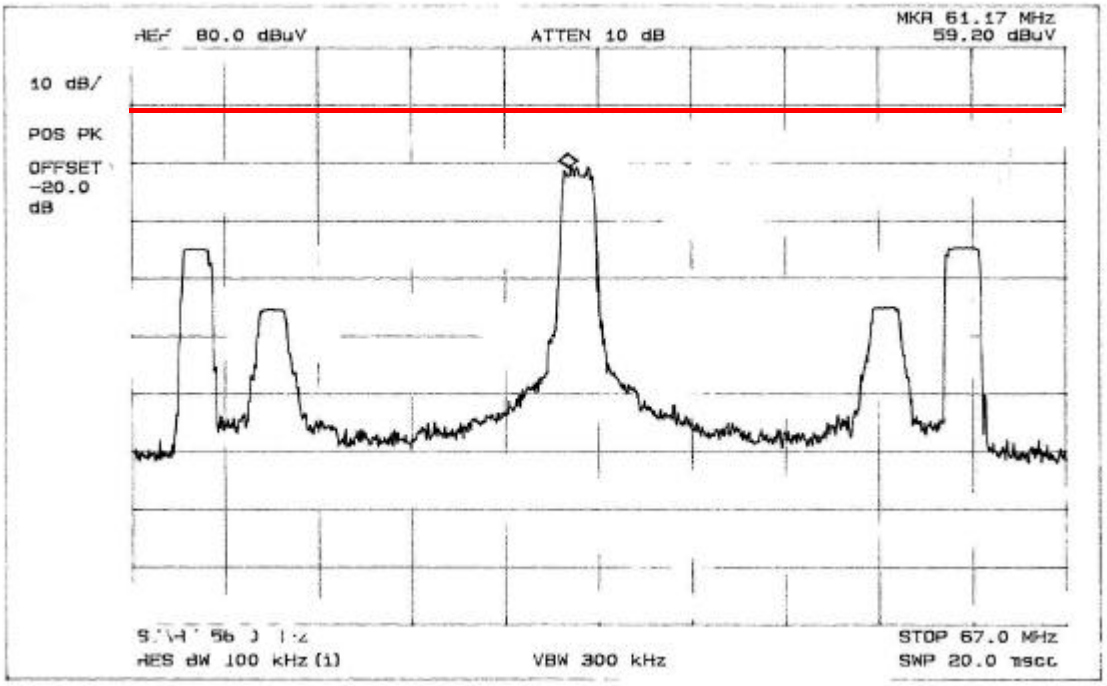
CH3 Playback (Pix)



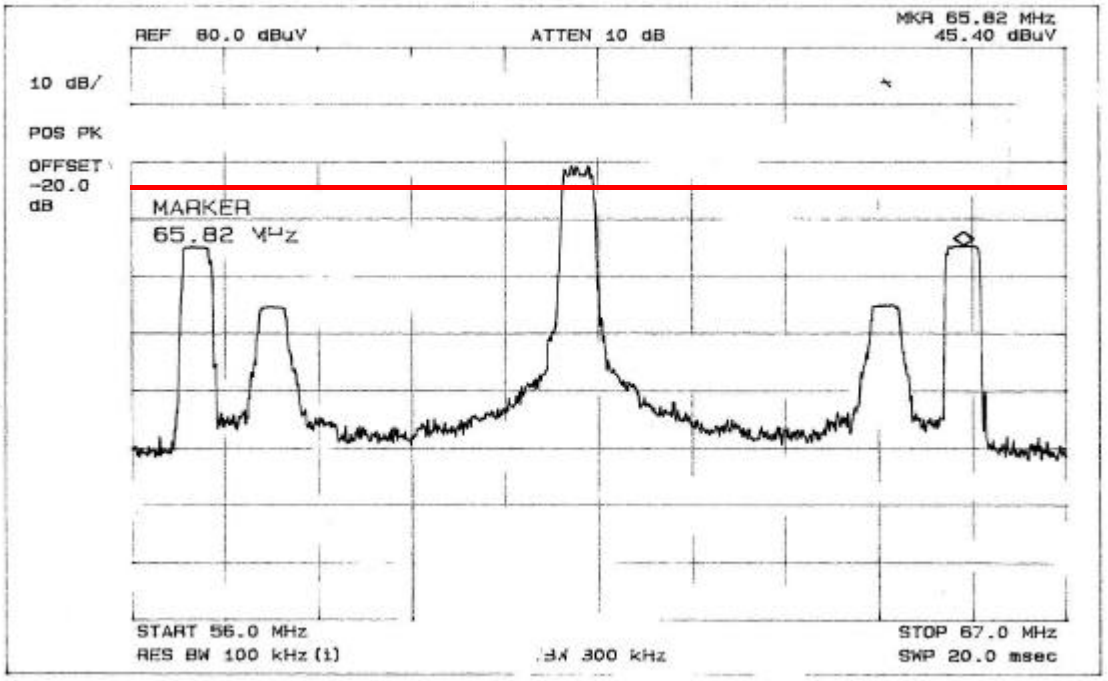
CH3 Playback (Aud)

Output Signal Level Measurements

Tuner: LGTMI-US4-S



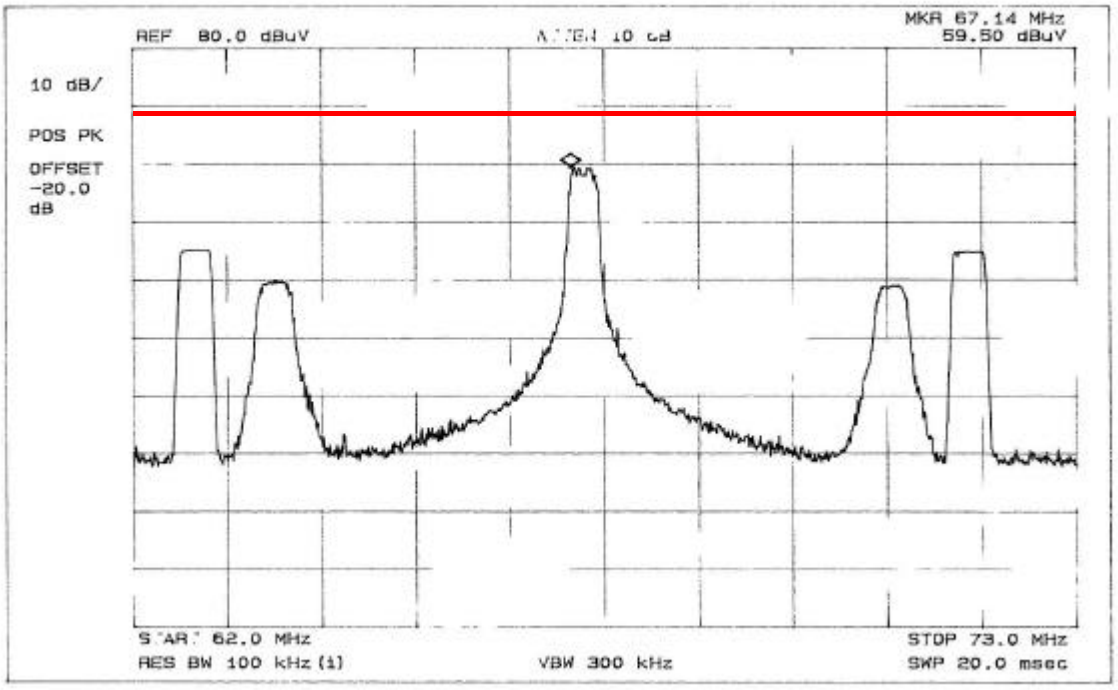
CH3 Record (Pix)



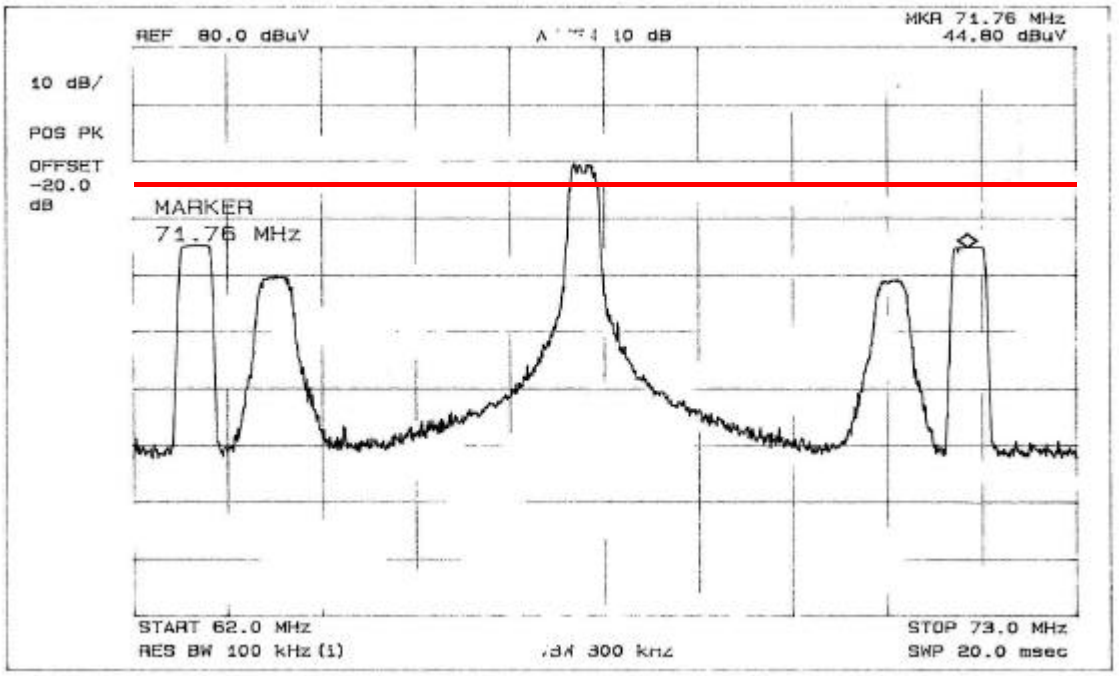
CH3 Record (Aud)

Output Signal Level Measurements

Tuner: LGTMI-US4-S



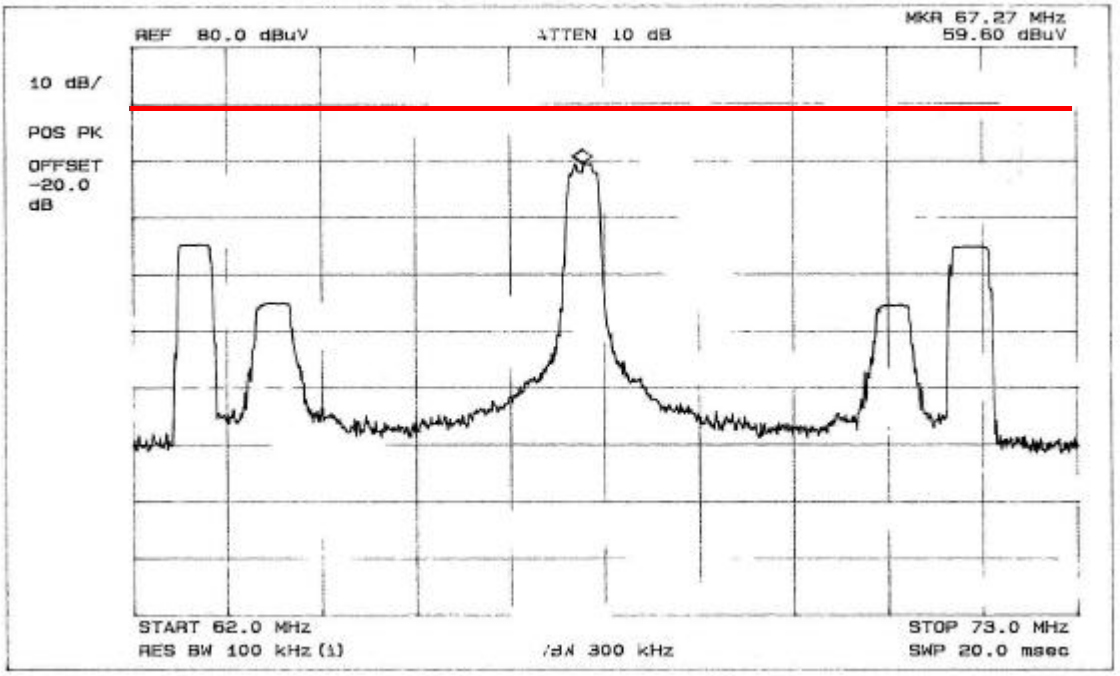
CH4 Playback (Pix)



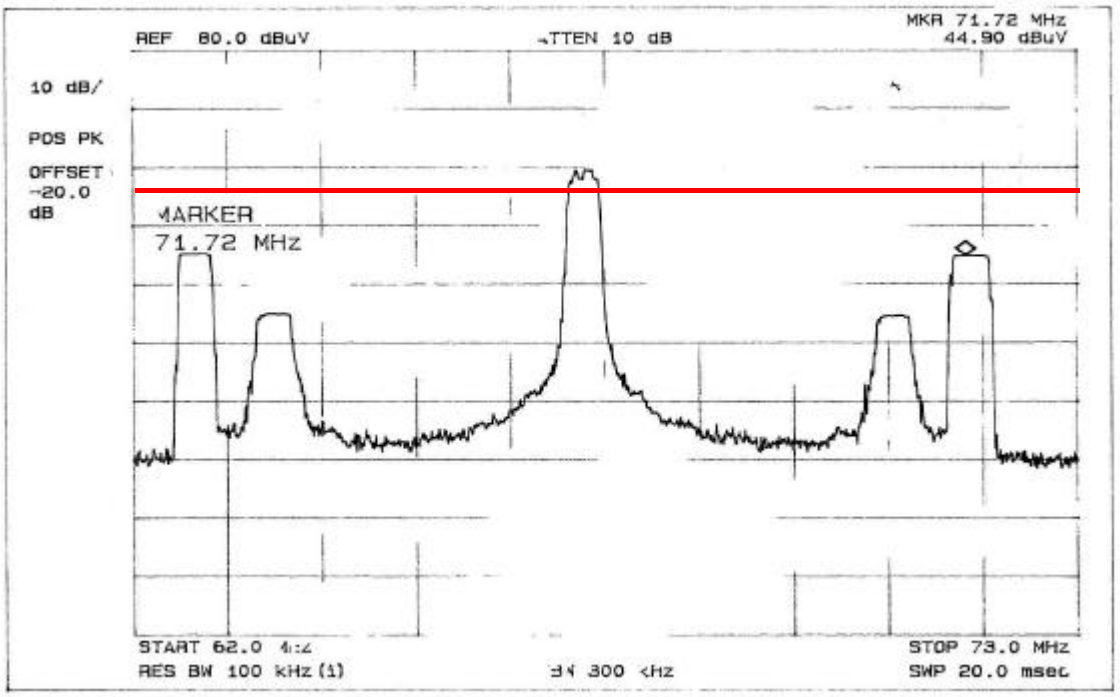
CH4 Playback (Aud)

Output Signal Level Measurements

Tuner: LGTMI-US4-S



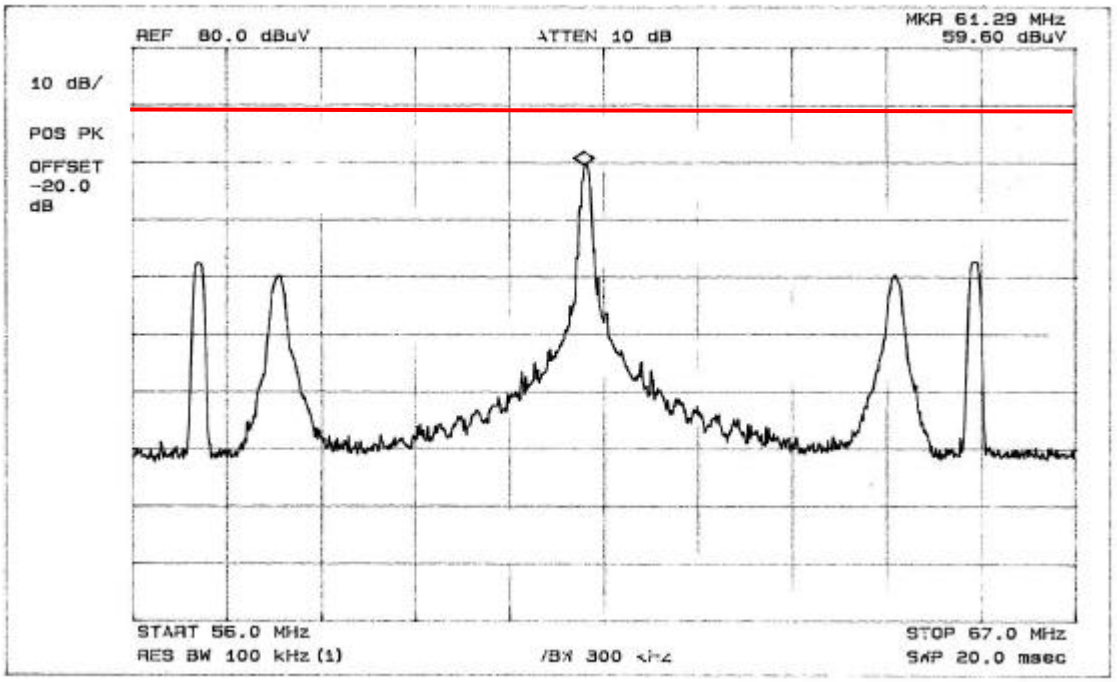
CH4 Record (Pix)



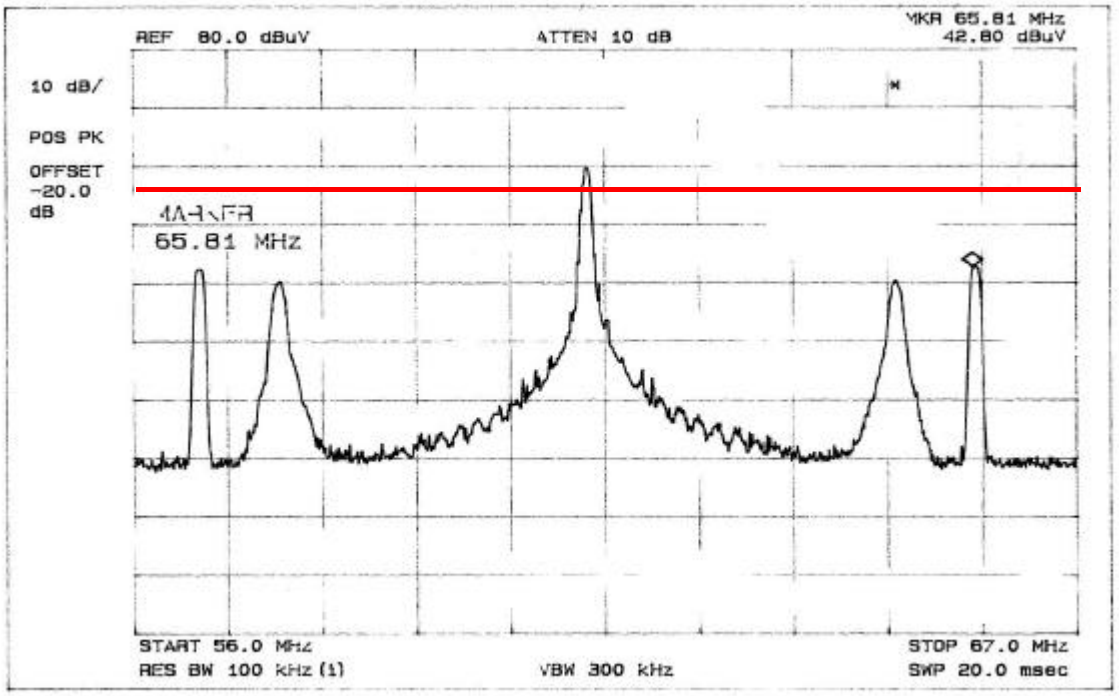
CH4 Record (Aud)

Output Signal Level Measurements

Tuner: SSTMI-US3-S



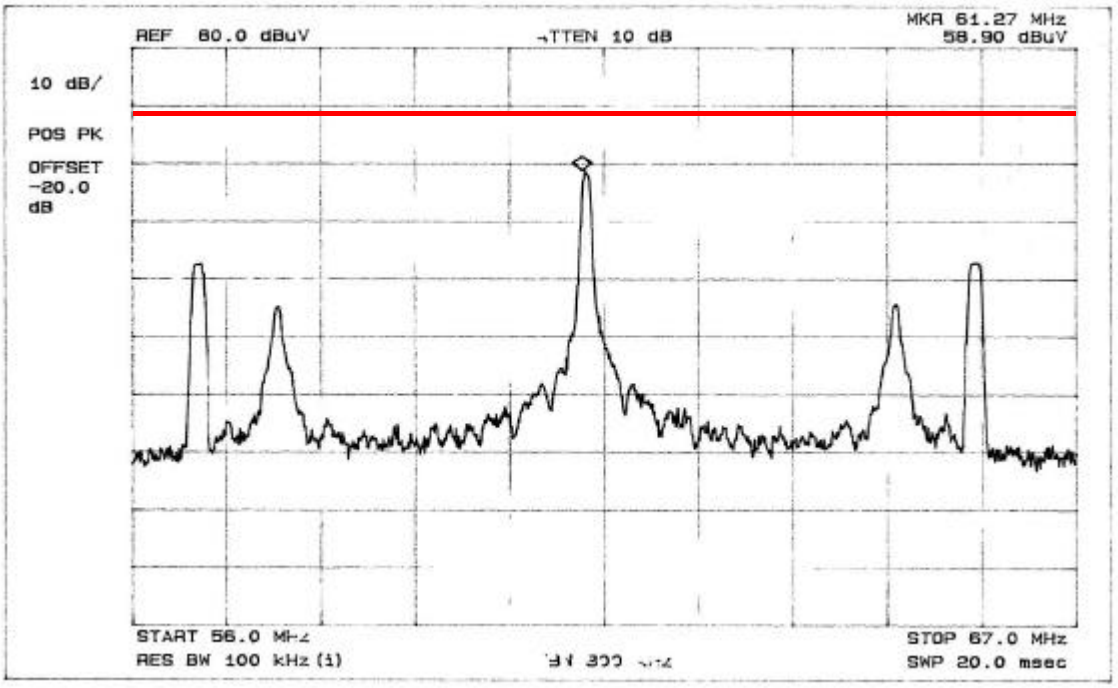
CH3 Playback (Pix)



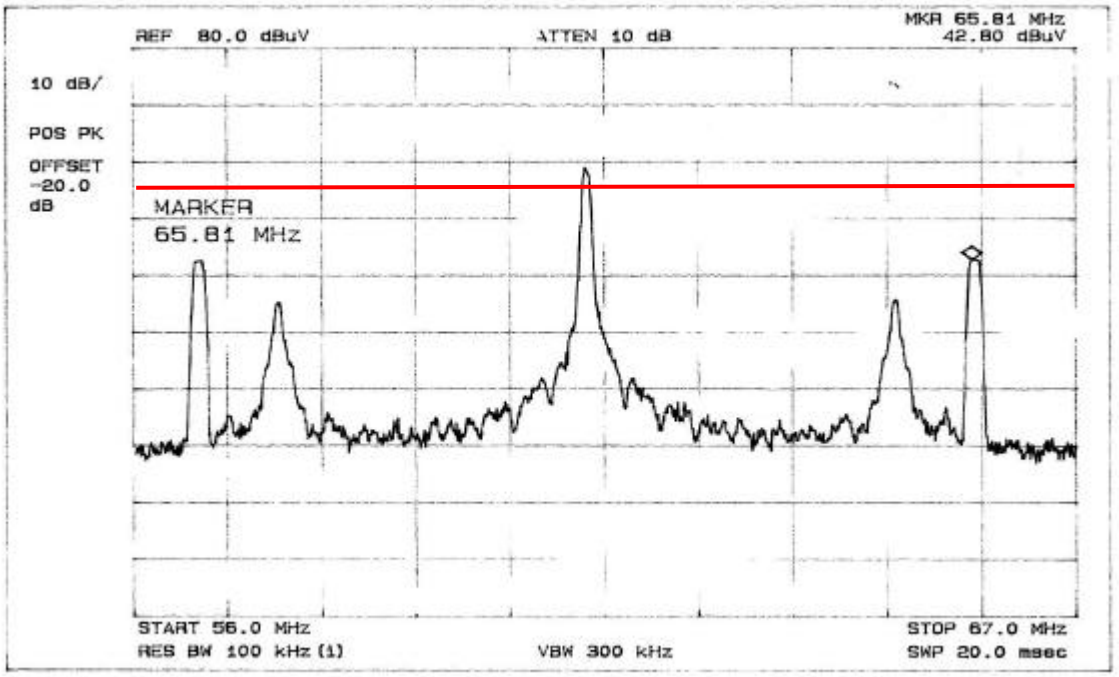
CH3 Playback (Aud)

Output Signal Level Measurements

Tuner: SSTMI-US3-S



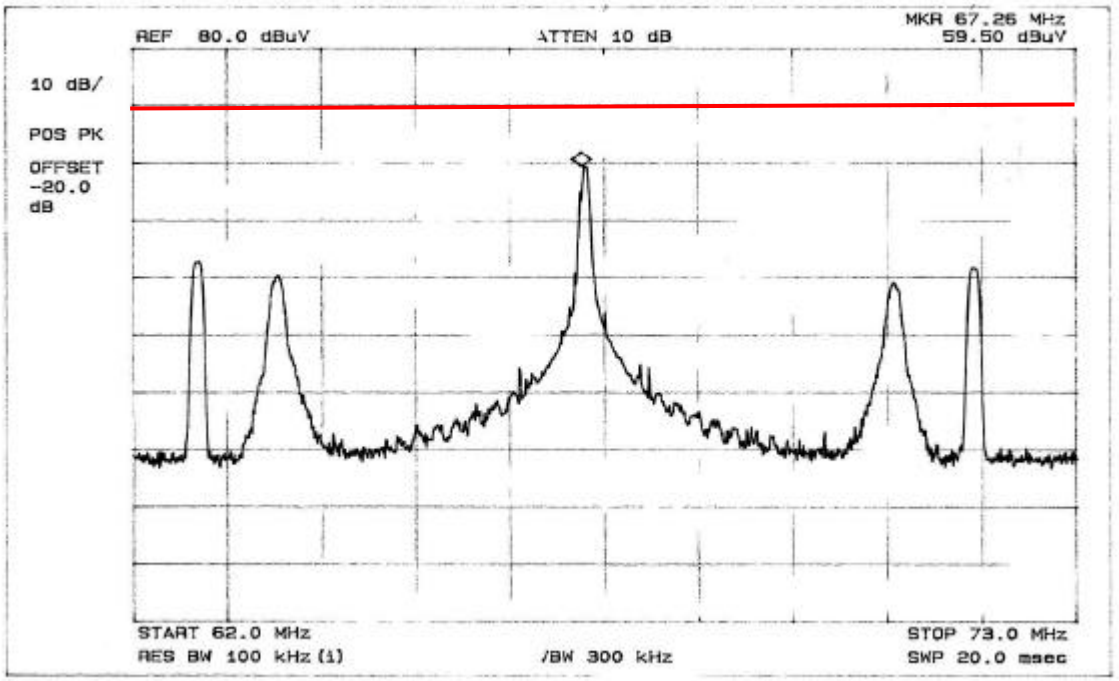
CH3 Record (Pix)



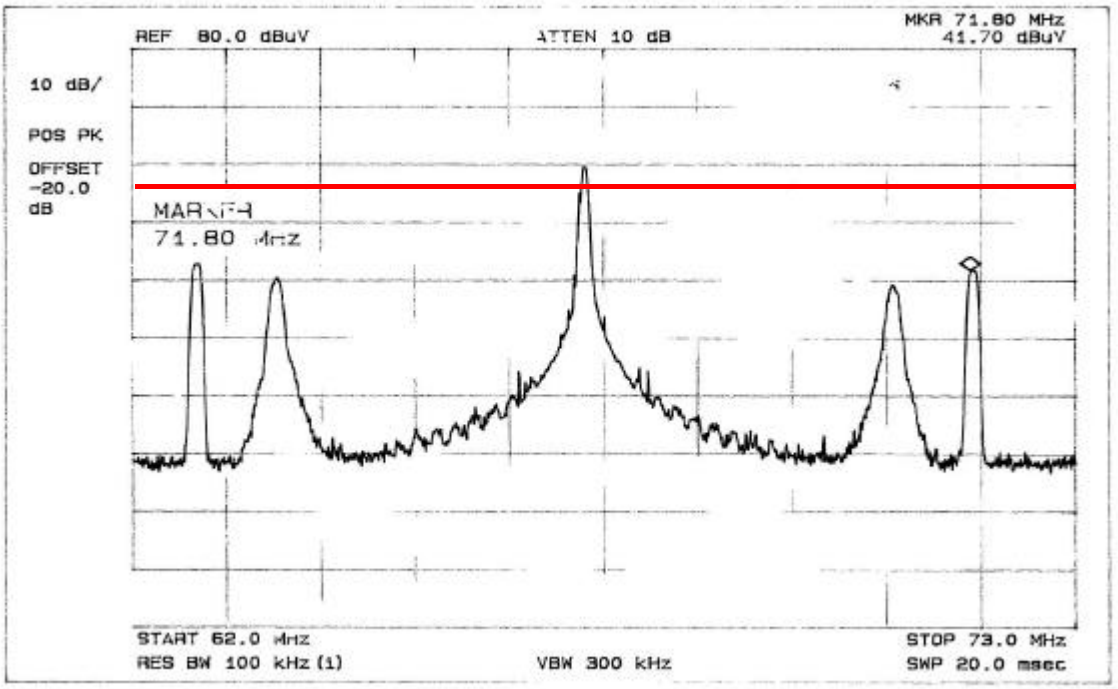
CH3 Record (Aud)

Output Signal Level Measurements

Tuner: SSTMI-US3-S



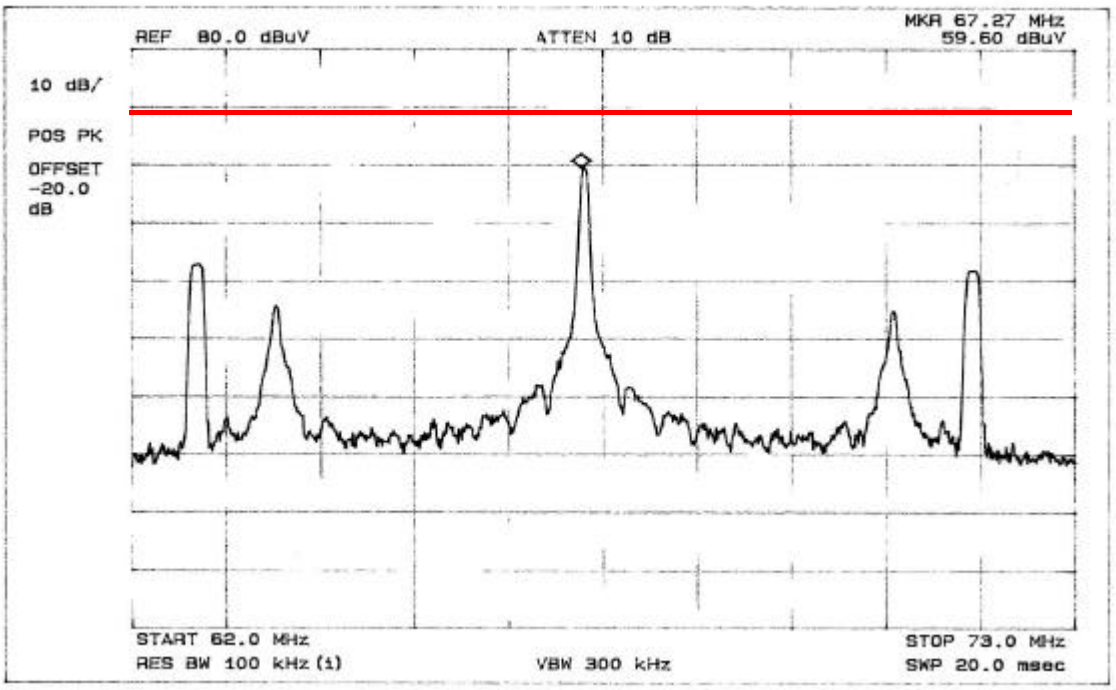
CH4 Playback (Pix)



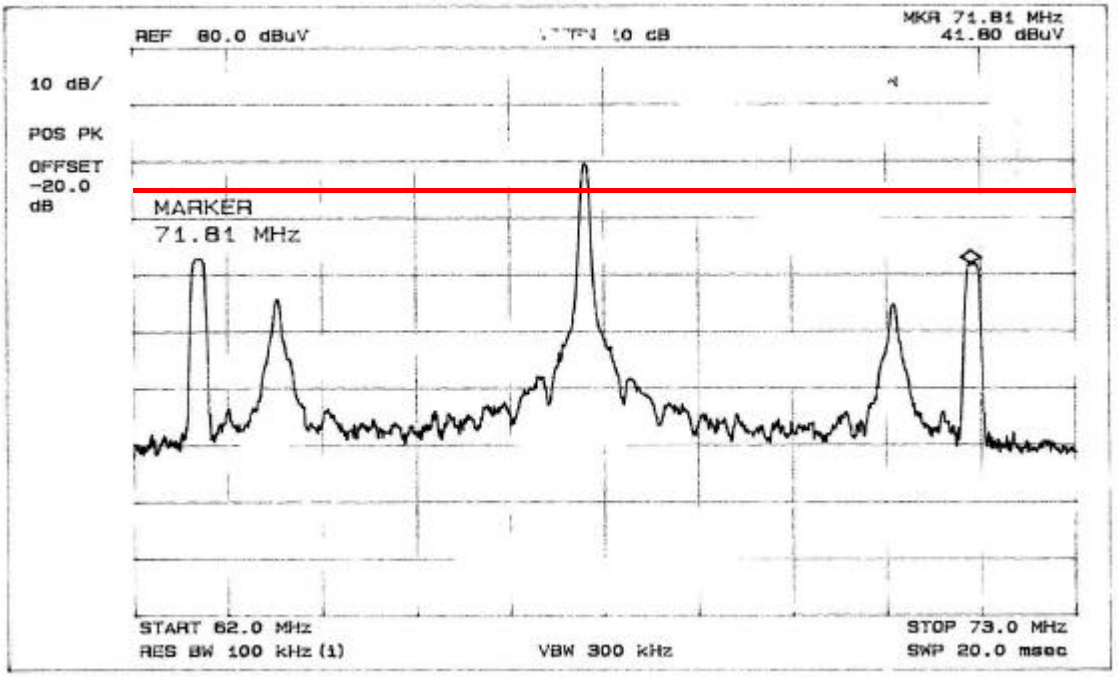
CH4 Playback (Aud)

Output Signal Level Measurements

Tuner: SSTMI-US3-S



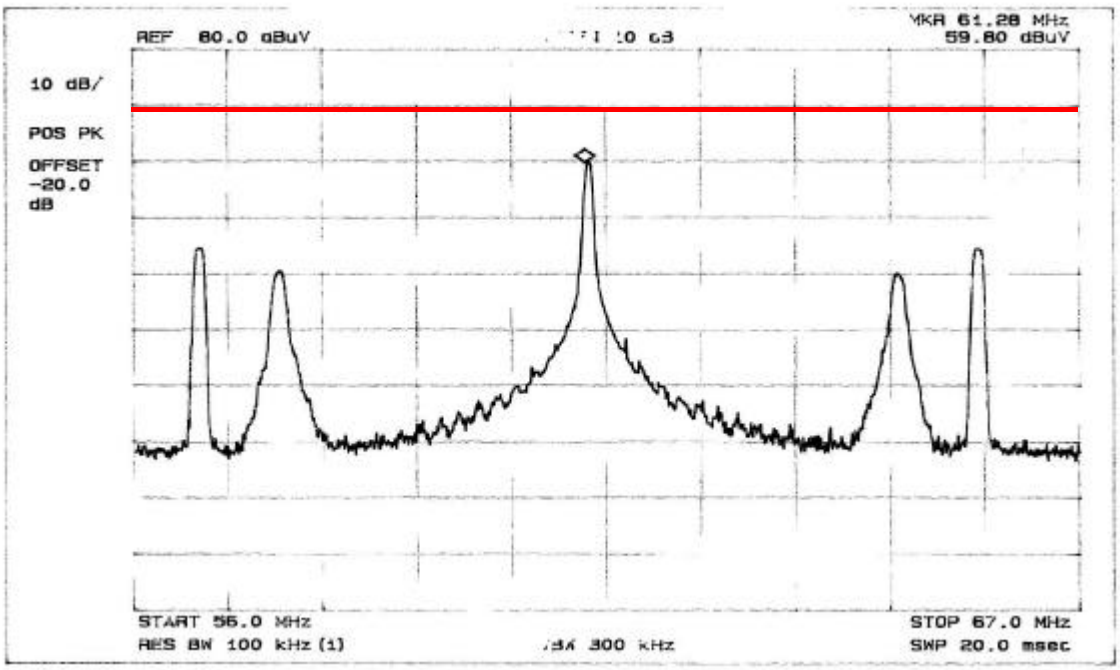
CH4 Record (Pix)



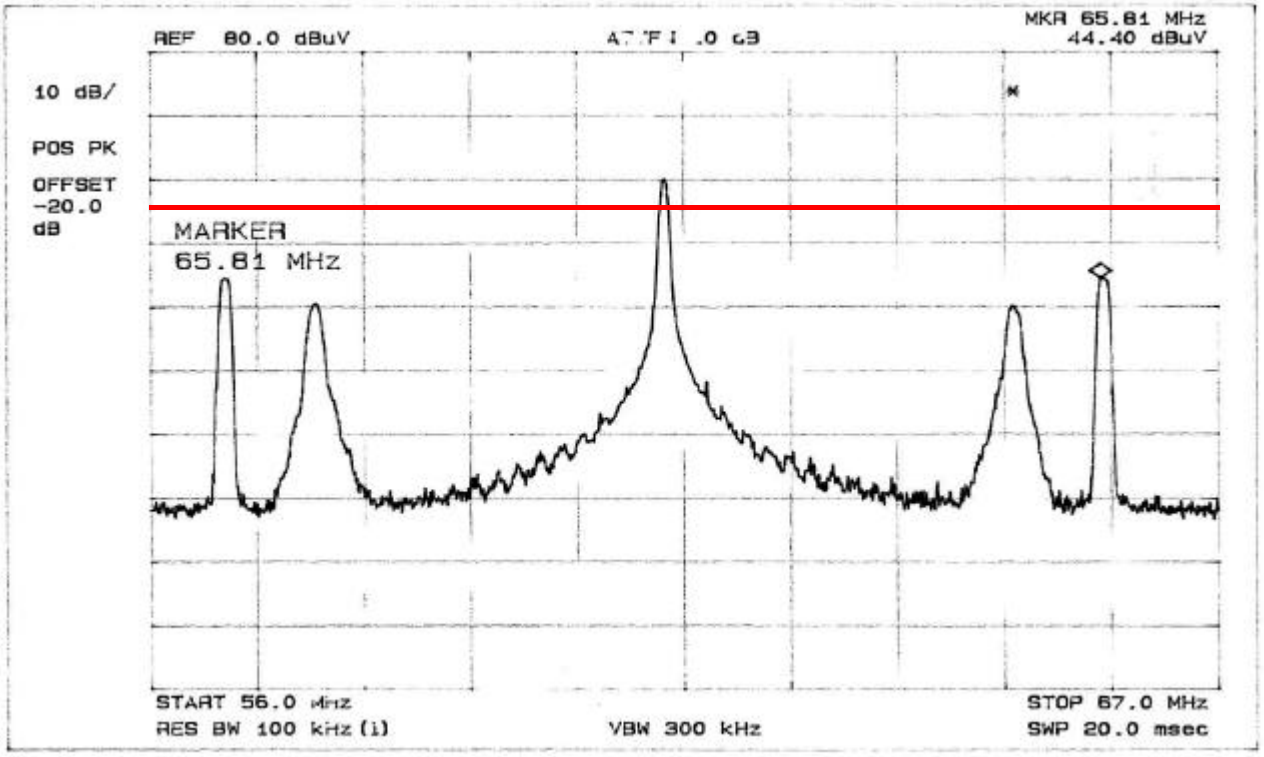
CH4 Record (Aud)

Output Signal Level Measurements

Tuner: SATMI-US4-S



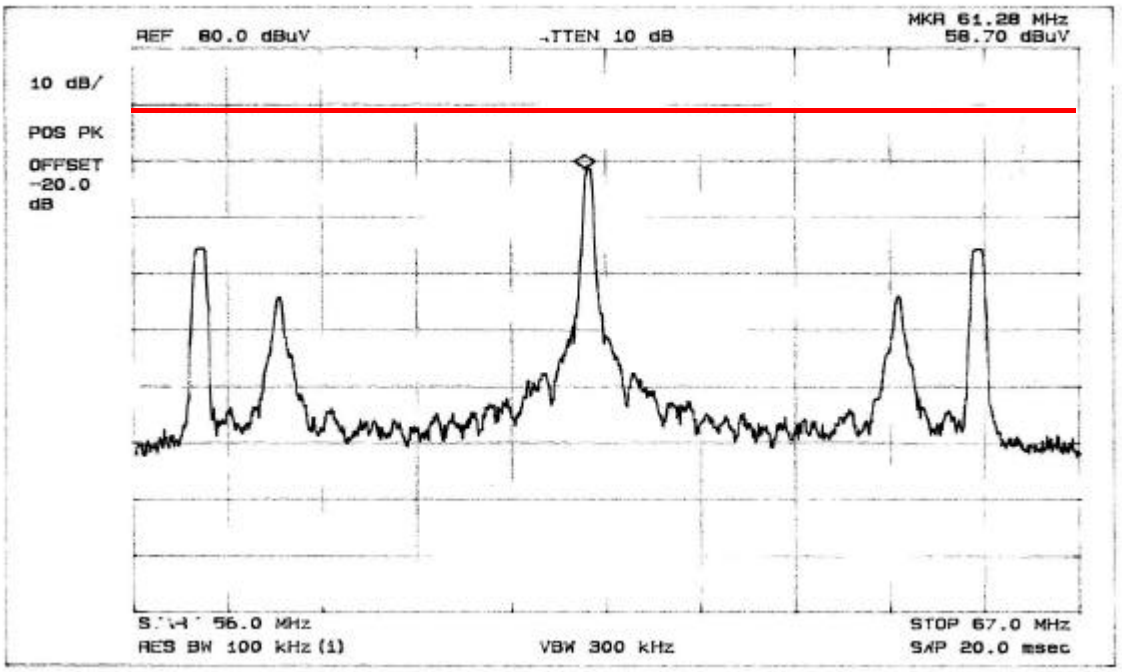
CH3 Playback (Pix)



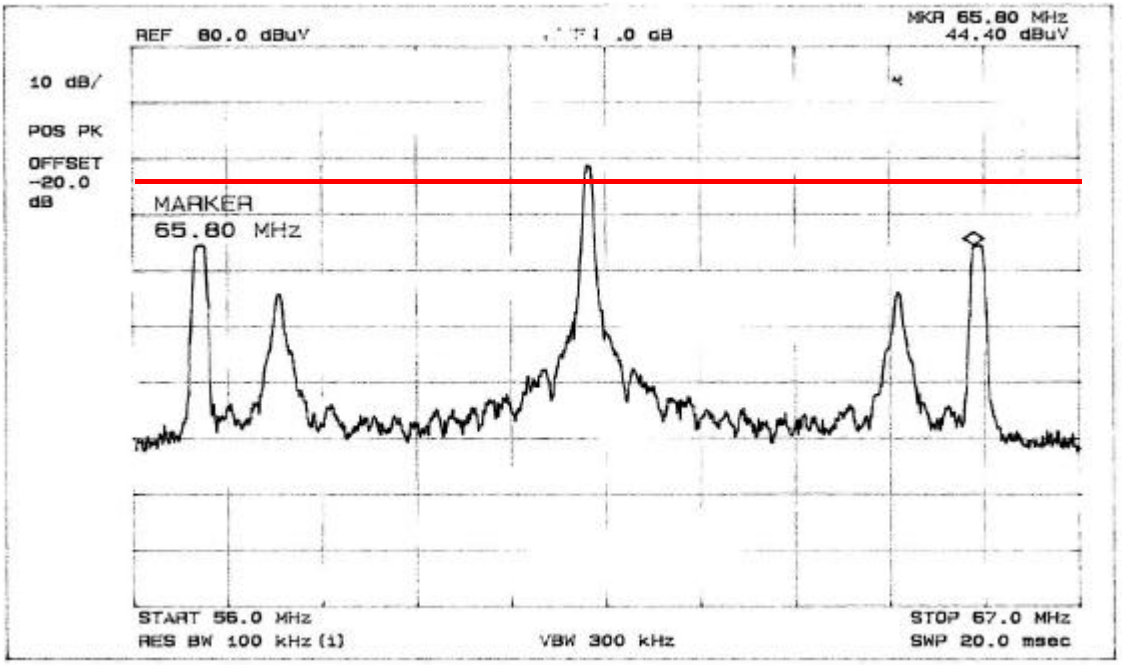
CH3 Playback (Aud)

Output Signal Level Measurements

Tuner: SATMI-US4-S



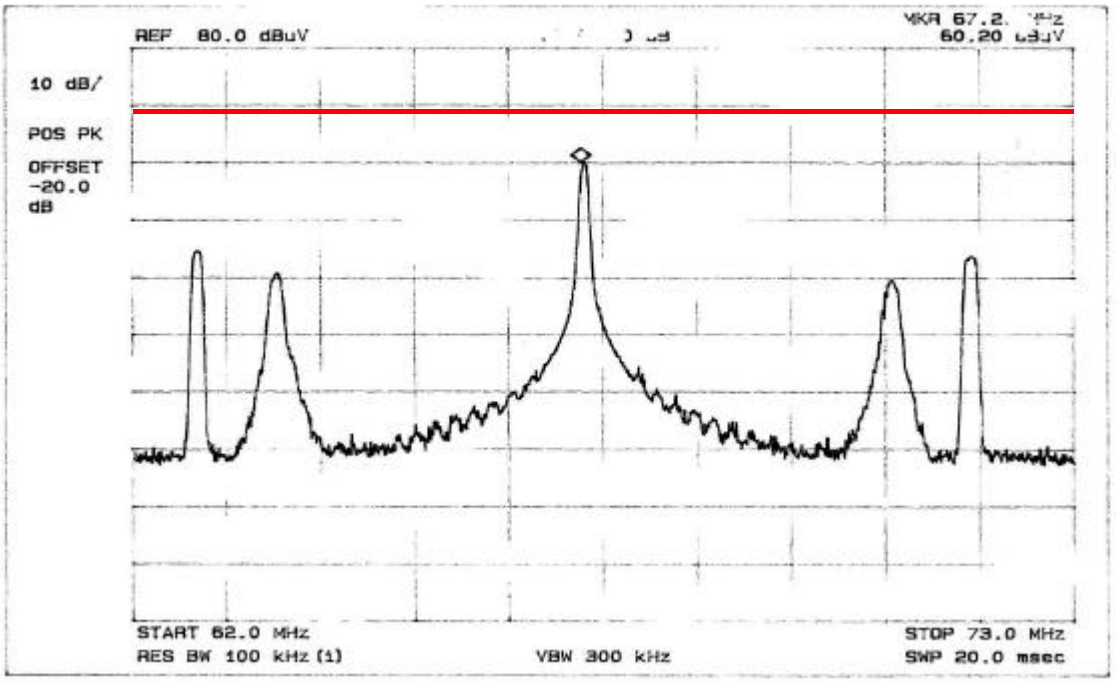
CH3 Record (Pix)



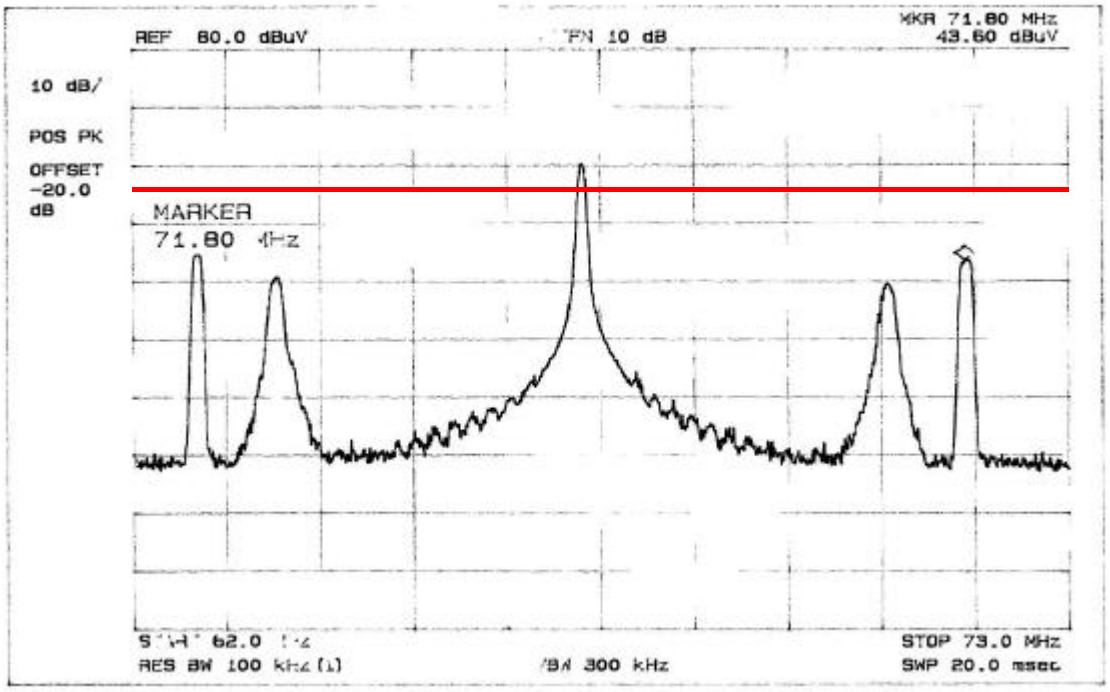
CH3 Record (Aud)

Output Signal Level Measurements

Tuner: SATMI-US4-S



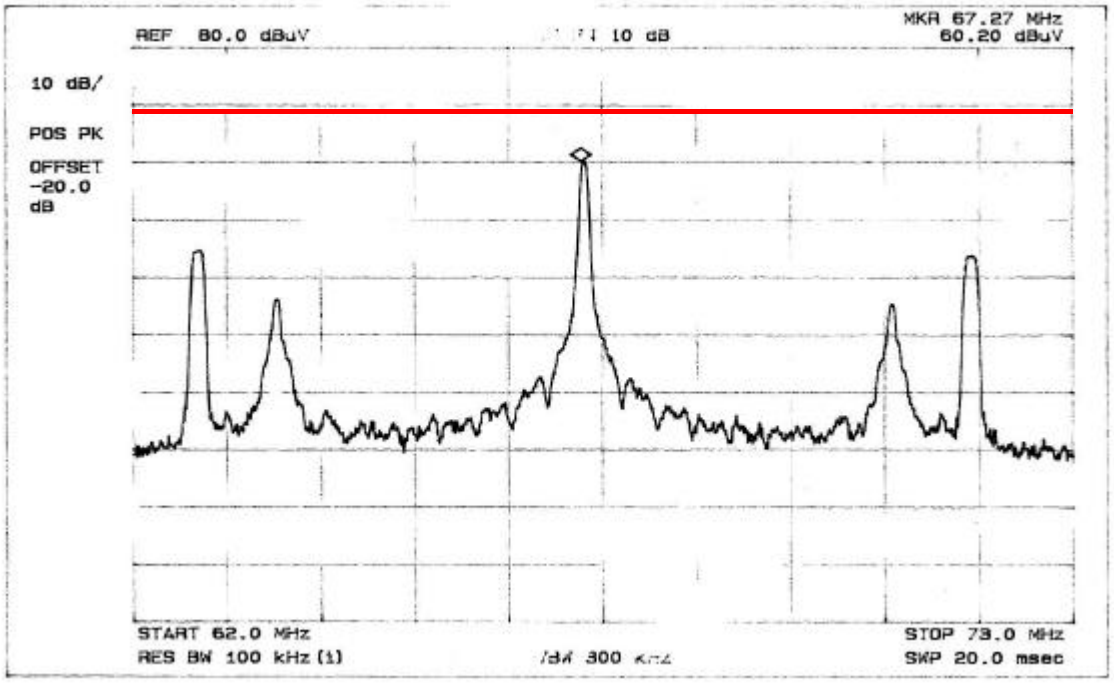
CH4 Playback (Pix)



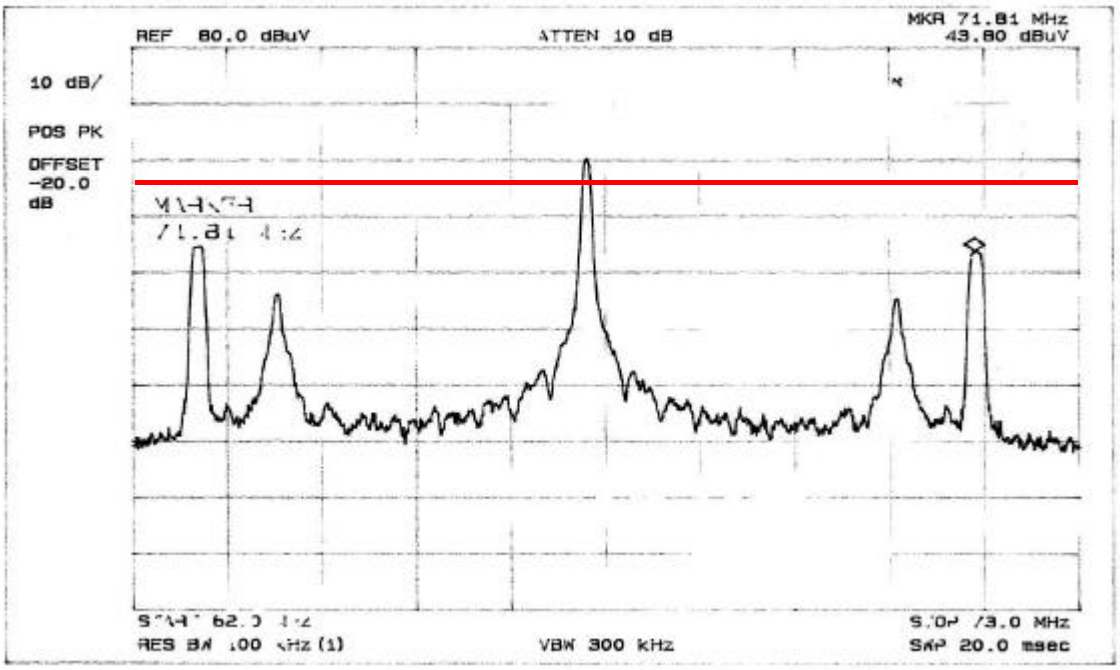
CH4 Playback (Aud)

Output Signal Level Measurements

Tuner: SATMI-US4-S



CH4 Record (Pix)



CH4 Record (Aud)

TEST CONDITIONS AND DATA

Output Terminal Conducted Spurious Emission

◆ Test Equipment Used

Model Name	Manufacturer	Description	Next Cal. Date
8566B	Hewlett Packard	Spectrum Analyzer	Jul. 13, 2002
85685A	Hewlett Packard	RF preselector	Jul. 13, 2002
RAM	Rohde & Schwarz	Matching Pad	Sep. 21, 2002
PM5515	Philips	Pattern Generator	Jun. 20, 2002

◆ External Peripherals

Device Description	Model Name	Manufacture	FCC Compliance Information
TV Receiver	F19430	Daewoo	Verification

◆ Test Program Playback and record mode

◆ Test Area Compact Chamber

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

$10.95 \times 75^{1/2}$ uV = 95uV = 39.55 dBuV

plus 30dB = 69.55dBuV = -37.45dBm

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.

Find the test data in following page(s) 79 to 89.

Output Terminal Conducted Spurious Emission

TV CH	Freq.(MHz)	Level(dBuV)	Limit(dBuV)	Mode	Margin(dB)
3	61.00	58.2	69.55	Playback	-11.35
3	61.00	58.3	69.55	Record	-11.25
4	66.90	57.7	69.55	Playback	-11.85
4	66.90	56.4	69.55	Record	-13.15

Spurious Emission Tabulated Data with Tuner
(LG Innotek Co., Ltd. Model: **LGTMI-US2-S**)

TV CH	Freq.(MHz)	Level(dBuV)	Limit(dBuV)	Mode	Margin(dB)
3	61.00	52.7	69.55	Playback	-16.85
3	61.00	53.1	69.55	Record	-16.45
4	66.90	41.4	69.55	Playback	-28.15
4	66.90	41.2	69.55	Record	-28.35

Spurious Emission Tabulated Data with Tuner
(Korea Alps Model: **ALTMI-US3-S**)

TV CH	Freq.(MHz)	Level(dBuV)	Limit(dBuV)	Mode	Margin(dB)
3	61.00	54.4	69.55	Playback	-15.15
3	61.00	54.9	69.55	Record	-14.65
4	66.90	43.1	69.55	Playback	-26.45
4	66.90	43.1	69.55	Record	-26.45

Spurious Emission Tabulated Data with Tuner
(LG Innotek Co., Ltd. Model: **LGTMI-US4-S**)

TV CH	Freq.(MHz)	Level(dBuV)	Limit(dBuV)	Mode	Margin(dB)
3	61.00	56.7	69.55	Playback	-12.85
3	61.00	55.9	69.55	Record	-13.65
4	66.90	42.3	69.55	Playback	-27.25
4	66.90	42.4	69.55	Record	-27.15

Spurious Emission Tabulated Data with Tuner
(Samsung Electronic Co., Ltd. Model: **SSTMI-US3-S**)

Output Terminal Conducted Spurious Emission

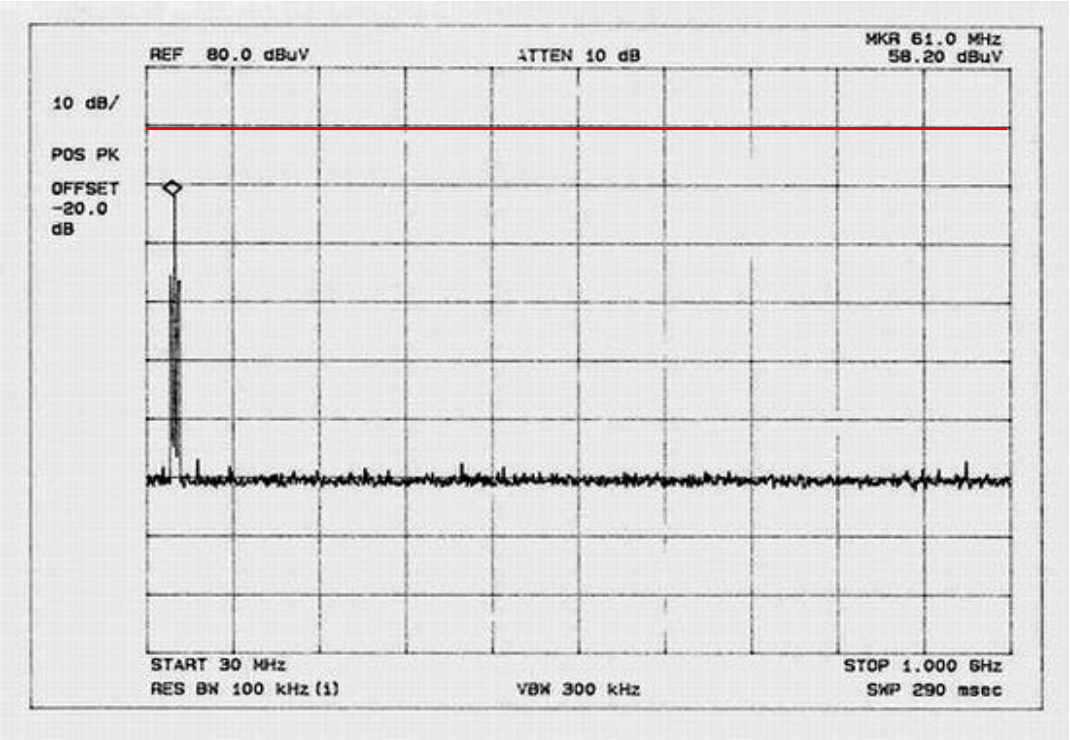
TV CH	Freq.(MHz)	Level(dBuV)	Limit(dBuV)	Mode	Margin(dB)
3	61.00	57.1	69.55	Playback	-12.45
3	61.00	57.2	69.55	Record	-12.35
4	66.90	56.8	69.55	Playback	-12.75
4	66.90	57.0	69.55	Record	-12.55

Spurious Emission Tabulated Data with Tuner

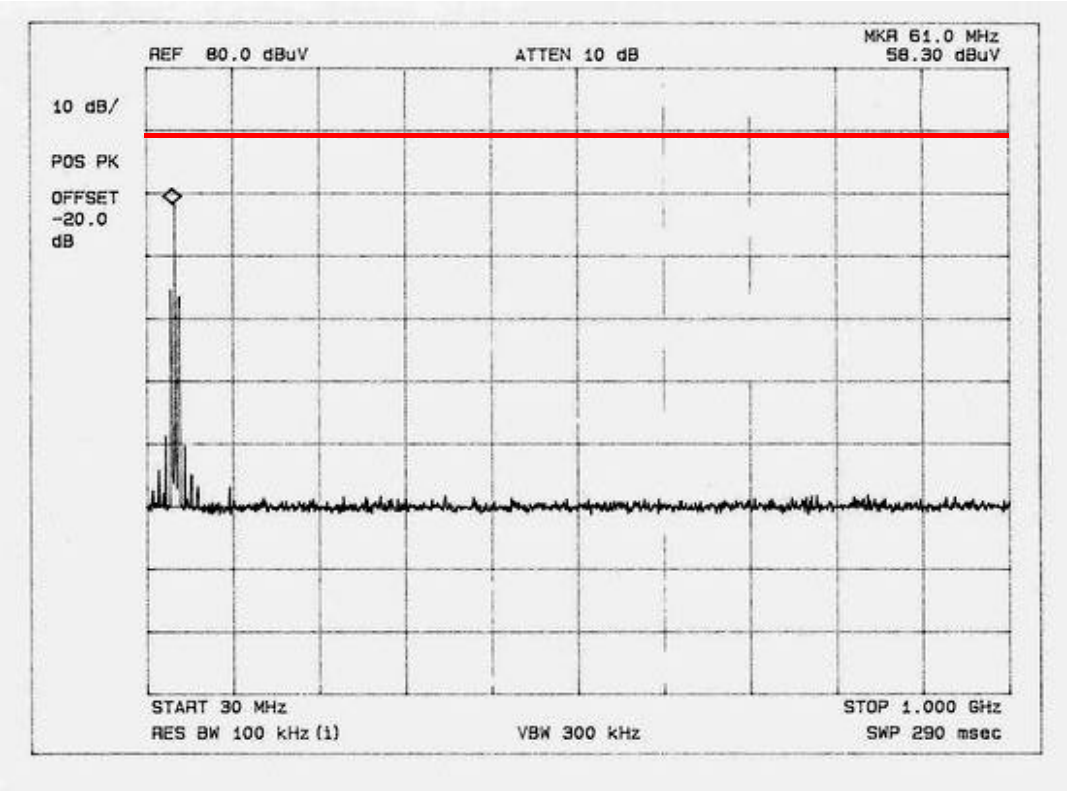
(Sanyo Electronic Co., Ltd. Model: **SATMI-US4-S**)

Output Terminal Conducted Spurious Emission

Tuner: LGTMI-US2-S



CH3 Playback



CH3 Record