SENTON

■ EMV-Prüfzentrum ■ EMI/EMC-Testcenter ■

Straubing, July 10, 1998

TEST-REPORT

No. 51935-80535-1

for

SHT-7 C / SHR-7 K1

Telecontrol System

Applicant: SVS Nachrichtentechnik GmbH

Purpose of testing: To show compliance with

FCC Code of Federal Regulations,
Part 15 Subpart C, Sections §15.209 and §15.231

Table of Contents

1. Administrative Data

Equipment Under Test (EUT):	Transmitter: SHT-7 C Receiver: SHR-7 K1
Serial number(s):	Sample no. 1
Type of equipment:	Telecontrol System
Parts/accessories:	---
FCC-ID:	N3USH-7

Applicant: (full address)	SVS Nachrichtentechnik GmbH Linkstraße 6 D-72818 Trochtelfingen Germany
Contract identification:	---
Contact person:	Mr. Wolfgang Simon
Manufacturer:	SVS Nachrichtentechnik GmbH

Receipt of EUT:	June 9, 1998
Date of test:	June 22 to 26, 1998
Note:	---

Test Laboratory: (full address):	Senton GmbH EMI/EMC Test Center Aeussere Fruehlingstrasse 45 D-94315 Straubing Germany
Contact person:	Mr. Johann Roidt
Telephone no.:	+49 9421 5522-0
Fax no.:	+49 9421 5522-99
FCC file number:	31040/SIT 1300F2

Responsible for testing:	Rainer Heller
Responsible for test report:	Rainer Heller

2. Summary of Test Results

The tested transmitter complies with the requirements set forth in the

Code of Regulations Part 15 Subpart C, Section §15.231
(intentional radiators)

and the associated receiver complies with the requirements set forth in the

Code of Regulations Part 15 Subpart C, Section §15.209
(intentional radiators)

UN

of the Federal Communication Commission (FCC).

Johann Roidt
Technical Manager

Rainer Heller
Test Engineer

3. Operation Mode of EUT

Transmitter:
EUT is transmitting continuously with modulation, supplied by battery (12 V DC)

Receiver:
EUT is receiving continuously with timer active (relay switched on) with external supply voltage 24 V DC

4. Configuration of EUT and Peripheral Devices

Configuration of EUT

EUT is configured as stand-alone device

Configuration of cables of EUT

Transmitter:
Not applicable

Receiver:
Six separated stranded non shielded wires, 0.5 m length, produced by METROFUNK BERLIN (for testing additional non shielded wires, 100 cm length, were connected to DC-supply lines)

Configuration of peripheral devices connected to EUT

Not applicable

5. Photographs of EUT and Peripheral Devices

5.1. Photographs of Transmitter

5.2. Photographs of Receiver

6. Measuring Methods

6.1. Bandwidth of Emission(§15.231.c)

The Bandwidth of Emission is measured with a spectrum analyzer connected to measuring antenna (radiated measurement) or test fixture while EUT is operating in transmit mode with modulation at the appropriate center frequency. To increase received signal level distance to EUT is reduced (appropriate level offset is included).
The spectrum analyzer was set to:
RBW = 10 kHz, VBW = 10 kHz, span = 1 MHz, sweep = 20 ms
See figure 1 for the measurement setup.

Test equipment used (see equipment list for details):
02, 55, 67

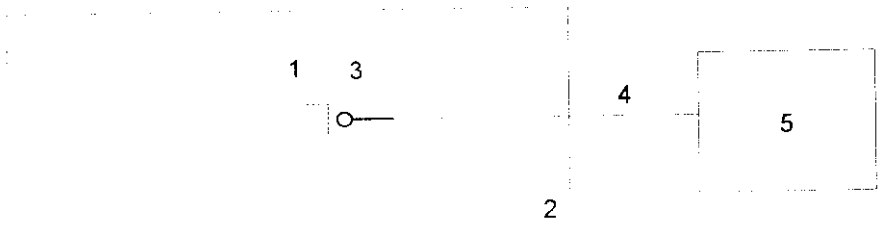


Figure 1: Measurement setup for bandwidth of emission test

1 Transmitter (EUT)
2 Wooden table
3 Test fixture
4 Test cable
5 Spectrum analyzer

6.2. Duty Cycle Test (§15.231 / ANSI C63.4-1992 I4.10)

The duty cycle is measured with a diode detecter in combination with an oscilloscope.
The diode detector is connected to the measuring antenna (radiated measurement) or test fixture while EUT is operating in transmit mode with modulation and worst case duty cycle at the appropriate center frequency. To increase received signal level distance to EUT is reduced.
Settings of oscilloscope are chosen to in a way that parameters of duty cycle (pulse train, on- and off-time) can be detected properly (for details see appropriate test records).

Duty cycle is calculated according to ANSI C63.4-1992 I4.10 in the following way:

- pulse train is measured and recorded,
- if pulse train is less than 100 ms sum of duration of pulses is divided by duration of one period, or
- if pulse train exceeds 100 ms sum of duration of pulses over the 100 ms width with the highest average value is divided by 100 ms.

See figure 2 for the measurement setup.

Test equipment used (see equipment list for details):
55, 67, 68, 69

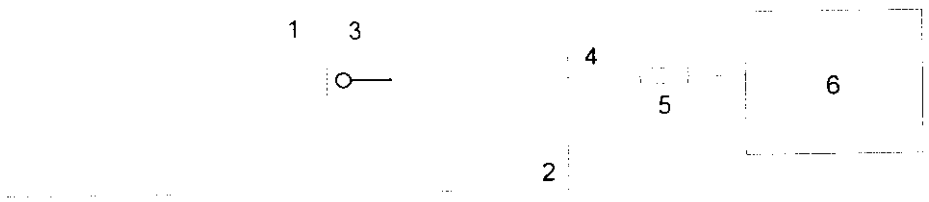


Figure 2: Measurement setup for bandwidth of emission test

1 Transmitter (EUT)
2 Wooden table
3 Test fixture
4 Test cable
5 Diode detector
6 Oscilloscope

6.3. Radiated Emission 30 MHz - 1 GHz (§15.205.a,b, §15.209, §15.231.b)

Radiated emissions are measured over the frequency range from 30 MHz to 1 GHz. The bandwidth of the EMI-receiver is set to 120 kHz and the detector-function is set to CISPR quasi-peak.
The test setup is made in accordance with ANSI C63.4-1992.
Measurements are made in both the horizontal and vertical planes of polarization.
Preliminary scans are taken in a semi-anechoic room using a spectrum analyzer with the detector function set to peak. Hand-held or body-worn devices are rotated through three orthogonal axes to determine which attitude and configuration produces the highest emission relative to the limit and therefore shall be used for final testing.
All tests are performed at a test-distance of 3 meters.
For final testing an open-area test-site is used. During the tests the EUT is rotated all around and the receiving-antenna is raised and lowered from 1 meter to 4 meters to find the maximum levels of emissions. The cables and equipment is placed and moved within the range of position likely to find their maximum emissions.

See figures 3 and 4 for the measurement setups.

Test equipment used (see equipment list for details):
01, 02, 05, 12, 38, 39, 40, 41, 58, 61, 64, 66

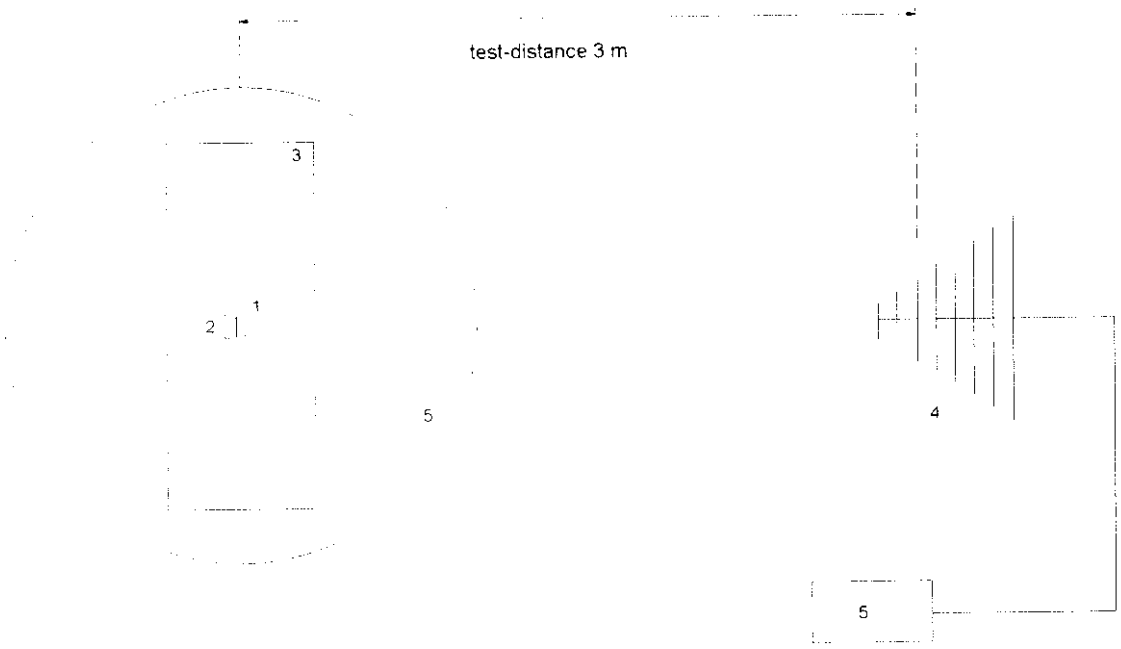


Figure 3: Measurement setup for radiated emission test below 1 GHz

1 Transmitter (EUT)
2 Wooden pedestal (if necessary)
3 Wooden table
4 Measurement antenna
5 Test receiver
6 Turn table

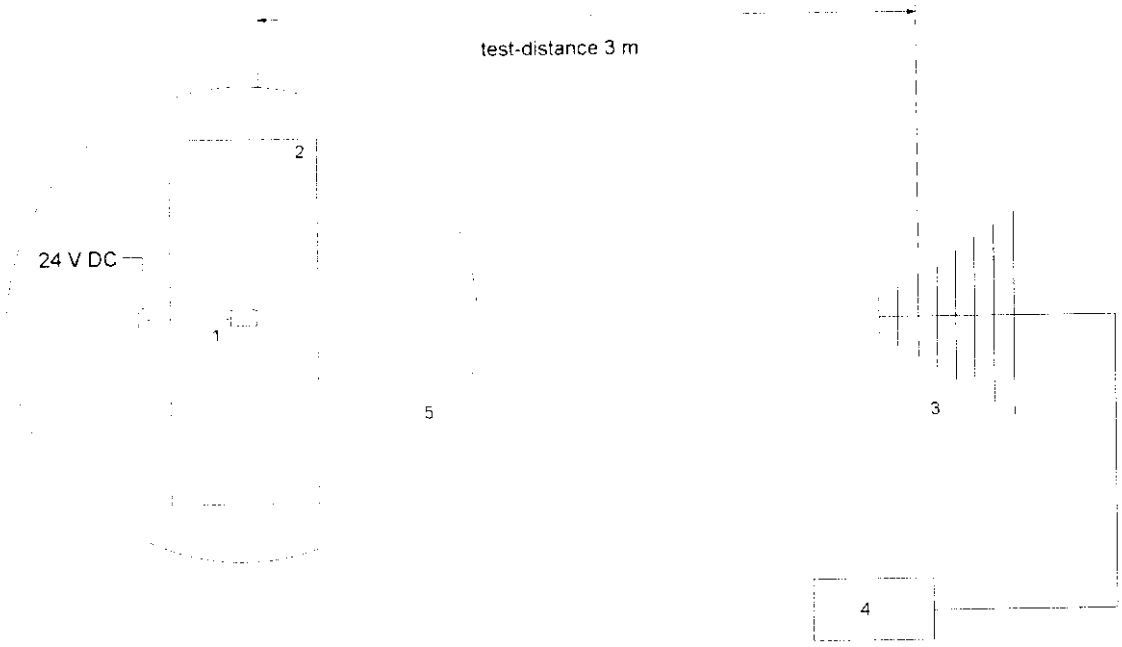


Figure 4: Measurement setup for radiated emission test below 1 GHz

1 Receiver (EUT)
2 Wooden table
3 Measurement antenna
4 Test receiver
5 Turn table

6.4. Radiated Emission 1 GHz - 5 GHz (§15.205.a,b, §15.209, §15.231.b)

Radiated emissions are measured in the frequency range 1 GHz to 5 GHz.
Resolution and video bandwidth of the spectrum analyzer are set to 1 MHz.
Hand-held or body-worn devices are rotated through three orthogonal axes to determine which attitude and configuration produces the highest emission relative to the limit and therefore shall be used for final testing.
Additional measurements are performed at critical frequencies with reduced span.
EUT is rotated all around and receiving antenna is raised and lowered to find the maximum levels of emission. The cables and equipment are placed and moved within the range of position likely to find their maximum emissions.
All tests are performed in a semi-anechoic chamber with a test-distance of 3 meters.
If possible preamplifiers are used for the whole frequency range. Special care is taken to avoid overload in transmit mode (using appropriate attenuators if necessary).

See figures 5 and 6 for the measurement setups.

Test equipment used (see equipment list for details):
02, 13, 14, 16, ,42, 43, 44, 45, 46, 47, 48, 49, 57, 64

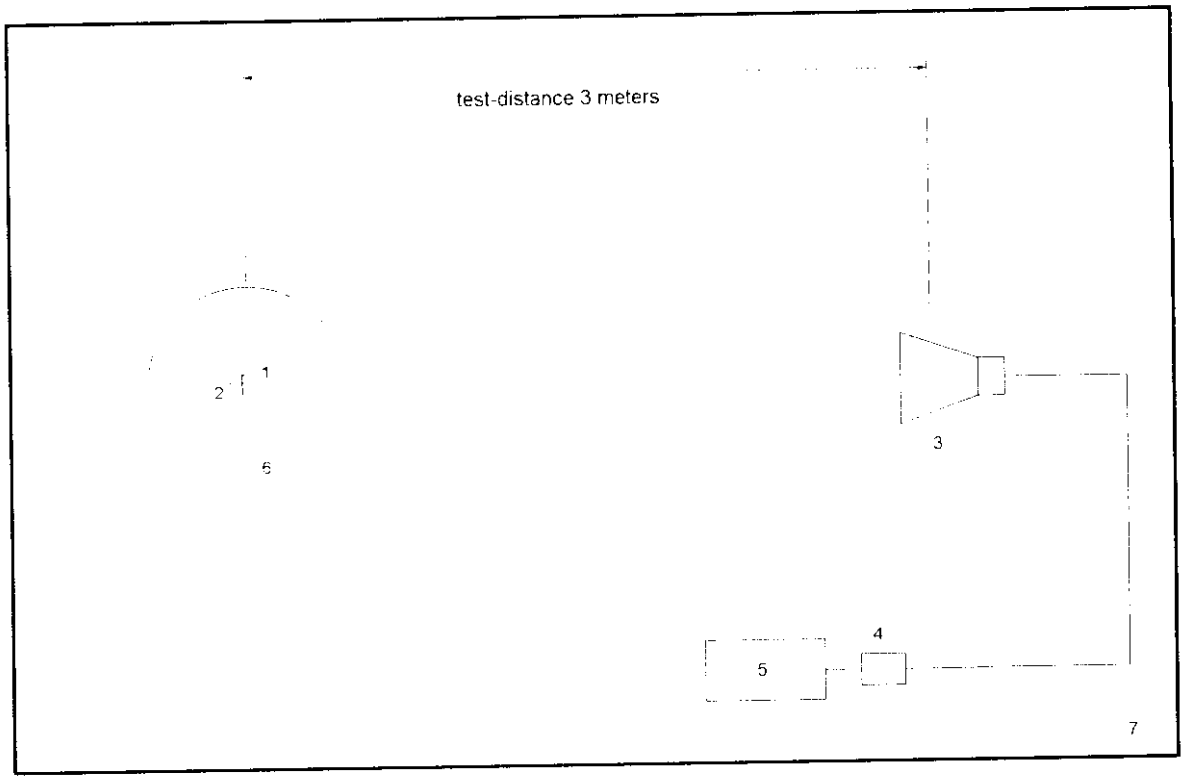


Figure 5: Measurement setup for radiated emission test above 1 GHz

1 Transmitter (EUT)
2 Wooden pedestal (if necessary)
3 Measurement antenna
4 Preamplifier (if applicable)
5 Spectrum analyzer
6 Turn table
7 Semi anechoic room

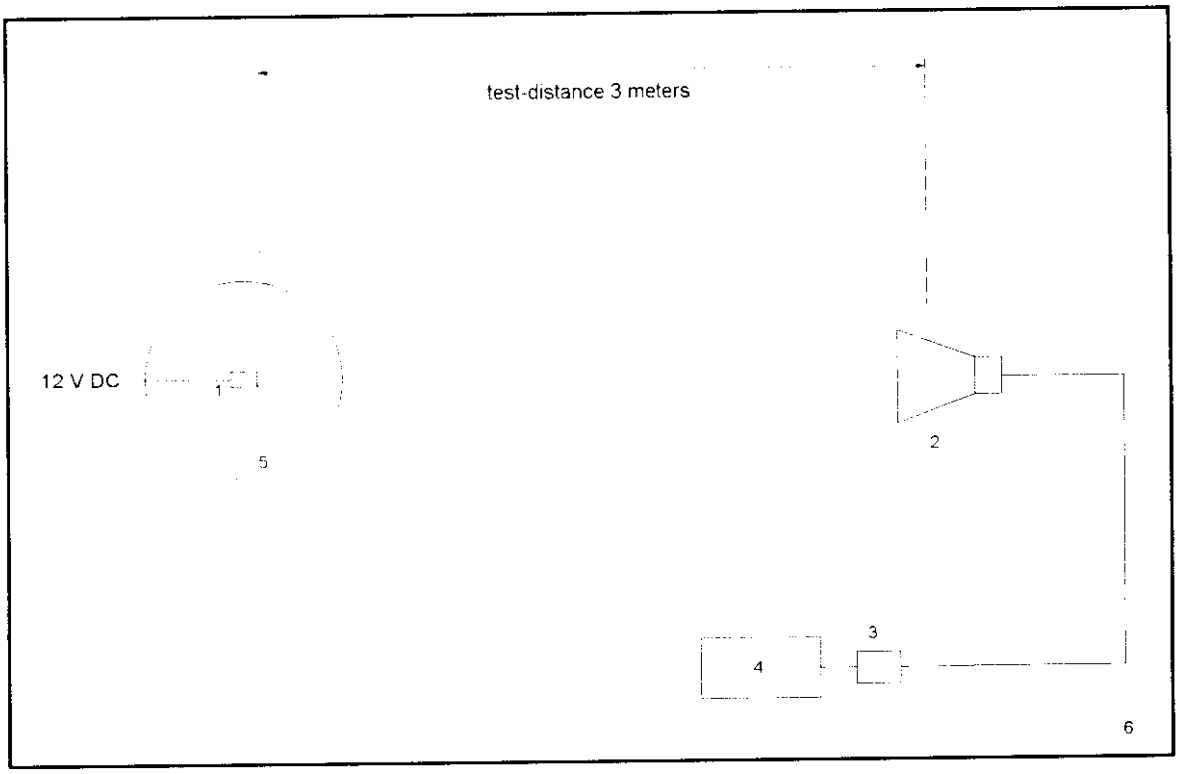


Figure 6: Measurement setup for radiated emission test above 1 GHz

1 Receiver (EUT)

2 Measurement antenna
3 Preamplifier (if applicable)
4 Spectrum analyzer
5 Turn table
6 Semi anechoic room

7. Equipment List

To facilitate reference to test equipment used for related tests, each item of test equipment and ancillaries such as cables are identified (numbered) by the Test Laboratory.

No.	Type	Model	Serial Number	Manufacturer
01	Spectrum Analyzer	R 3271	05050023	Advantest
02	EMI Test Receiver	ESMI	839379/013 839587/006	Rohde & Schwarz
03	Test Receiver	ESH 3	880112/032	Rohde & Schwarz
04	Test Receiver	ESHS 10	860043/016	Rohde & Schwarz
05	Test Receiver	ESV	881414/009	Rohde & Schwarz
06	Test Receiver	ESVP	881120/024	Rohde & Schwarz
07	Audio Analyzer	UPA	862954	Rohde & Schwarz
08	Power Meter	NRVS	836856/015	Rohde & Schwarz
09	Power Sensor	NRV-Z52	837901/030	Rohde & Schwarz
10	Power Sensor	NRV-Z4	863828/015	Rohde & Schwarz
11	Preamplifier	ESV-Z3	860907/004	Rohde & Schwarz
12	Preamplifier	R14601		Advantest
13	Preamplifier	ACX/080-3030	32640	CTT
14	Preamplifier	ACO/180-3530	32641	CTT
15	Signal Generator	SMS	872166/039	Rohde & Schwarz
16	Signal Generator	HP 8673 D	2930A00966	Hewlett Packard
17	Waveform Generator	HP 33120 A	US34005375	Hewlett Packard
18	Attenuator 20 dB	4776-20	9503	Narda
19	Attenuator 10 dB	4776-10	9412	Narda
20	Pulse Limiter	ESH 3-Z2	1144	Rohde & Schwarz
21	Pulse Limiter	11947 A	3107A00566	Hewlett Packard
22	V-Network	ESH 3-Z5	862770/018	Rohde & Schwarz
23	V-Network	ESH 3-Z5	894785/005	Rohde & Schwarz
24	V-Network	ESH 3-Z5	830952/025	Rohde & Schwarz
25	V-Network	ESH 3-Z6	830722/010	Rohde & Schwarz
26	V-Network	NSLK 8127	8127152	Schwarzbeck
27	V-Network	NNLA 8119	8119148	Schwarzbeck
28	V-Network	SE 01	01	Senton
29	T-Network	ESH 3-Z4	890602/011	Rohde & Schwarz
30	T-Network	ESH 3-Z4	890602/012	Rohde & Schwarz
31	High Impedance Probe	TK 9416	01	Schwarzbeck
32	High Impedance Probe	TK 9416	02	Schwarzbeck
33	Current Probe	ESH 2-Z1	863366/18	Rohde & Schwarz
34	Current Probe	ESV-Z1	862553/3	Rohde & Schwarz

No.	Type	Model	Serial Number	Manufacturer
35	Absorbing Clamp	MDS 21	80911	Lüthi
36	Absorbing Clamp	MDS 21	79690	Lüthi
37	Loop Antenna	HFH2-Z2	882964/1	Rohde & Schwarz
38	Biconical Antenna	HK 116	842204/001	Rohde & Schwarz
39	Biconical Antenna	HK 116	836239/02	Rohde & Schwarz
40	Log. Periodic Antenna	HL 223	841516/023	Rohde & Schwarz
41	Log. Periodic Antenna	HL 223	834408/12	Rohde & Schwarz
42	Horn Antenna	3115	9508-4553	Emco
43	Horn Antenna	3160-03	9112-1003	Emco
44	Horn Antenna	3160-04	9112-1001	Emco
45	Horn Antenna	3160-05	9112-1001	Emco
46	Horn Antenna	3160-06	9112-1001	Emco
47	Horn Antenna	3160-07	9112-1008	Emco
48	Horn Antenna	3160-08	9112-1002	Emco
49	Horn Antenna	3160-09	9403-1025	Emco
50	Digital multimeter	199	463386	Keithley
51	DC Power Supply	NGSM 32/10	203	Rohde & Schwarz
52	DC Power Supply	NGB	2455	Rohde & Schwarz
53	DC Power Supply	NGA	386	Rohde & Schwarz
54	Temperature Test Chamber	HT4010	07065550	Heraeus
55	Cable	RG214	1309	Senton
56	Cable	200CM_001	1357	Rosenberger
57	Cable	150CM_001	1479	Rosenberger
58	Cable Set EG1	RG214	1189 - 1191	Senton
59	Cable Set Cabine 1	RG214		Senton
60	Cable Set Cabine 2	RG214		Senton
61	Cable Set Cabine 3	RG214		Senton
62	Shielded Room	No. 1	1451	Senton
63	Shielded Room	No. 2	1452	Senton
64	Semi-anechoic Chamber	No. 3	1453	Siemens
65	Shielded Room	No. 4	1454	Euroshield
66	Open Area Test Site	EG 1		Senton
67	Test fixture			Senton
68	Diode detector negative	8473D	01492	Hewlett Packard
69	Oscilloscope	54602B	US35060304	Hewlett Packard

8. Photographs Taken During Testing

8.1. Photographs Taken of Transmitter

9. List of Measurements

FCC Part 15 Subpart C			
Section(s):	**Test**	**Page(s)**	**Result**
	Transmitter:		
§15.231.c	Bandwidth of emission	52	passed
§15.207	Conducted emission test 450 kHz - 30 MHz	---	not applicable (battery supply)
§15.231.b ANSI C63.4-1992 (I4.10)	Duty cycle test	53 -55	passed
§15.231.b §15.209 §15.205.a,b	Radiated emission test 9 kHz - 30 MHz	---	not applicable (acc. to §15.33)
§15.231.b §15.209 §15.205.a,b	Radiated emission test 30 MHz - 1 GHz	56 -63	passed
§15.231.b §15.209 §15.205.a,b	Radiated emission test 1 GHz - 5 GHz	64 -77	passed
	Receiver:		
§15.207	Conducted emission test 450 kHz - 30 MHz	---	not applicable (DC supply)
§15.209	Radiated emission test 9 kHz - 30 MHz	---	not applicable (acc. to §15.33)
§15.209	Radiated emission test 30 MHz - 1 GHz	79 - 86	passed
§15.209	Radiated emission test 1 GHz - 5 GHz	87 - 89	passed

10. Referenced Regulations

All tests were performed with reference to the following regulations and standards:

☑	FCC Part 15 Subpart A	Code of Regulations Part 15 (Radio Frequency Devices), Subpart A (General) of the Federal Communication Commission (FCC)	October 20, 1997
☐	FCC Part 15 Subpart B	Code of Regulations Part 15 (Radio Frequency Devices), Subpart B (Unintentional Radiators) of the Federal Communication Commission (FCC)	October 20, 1997
☑	FCC Part 15 Subpart C	Code of Regulations Part 15 (Radio Frequency Devices), Subpart C (Intentional Radiators) of the Federal Communication Commission (FCC)	October 20, 1997
☑	ANSI C63.4	American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz - 40 GHz	October, 1992
☐	RSS-210	Radio Standards Specification RSS-210 for Low Power Licence-Exempt Radiocommuniction Devices of Industry Canada	February 24, 1996

11. Test Results

Test results for transmitter

SHT-7 C

Bandwidth of emission acc. to FCC Part 15 Subpart C, §15.231. c

Model:
SHT-7 C

Serial No.:
Sample no. 1

Applicant:
SVS Nachrichtentechnik GmbH

Mode:

- transmitting continuously with 433.9 MHz
- with battery supply 12 V DC

Delta f = 35.6 kHz

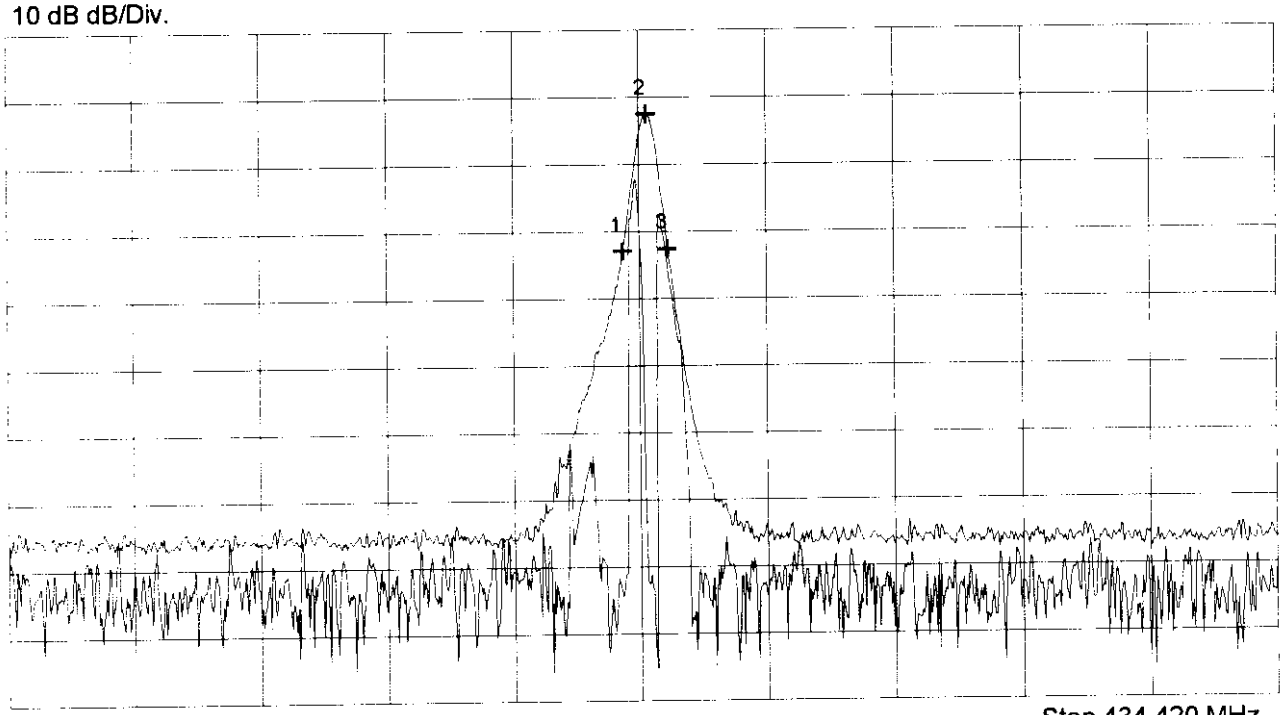
Limit: 0.25% of the center frequency = 1.08 MHz

Result: Limit kept

Ref.Level 100 dBµV/m
10 dB dB/Div.

ATT 20 dB

Ref. Offset 6 dB



Start 433.420 MHz
RBW 10 kHz

VBW 10 kHz

Stop 434.420 MHz
SWP 40 ms

**** Multi Marker ****

Nr.1	433.906667 MHz	67.09 dBµV/m
Nr.2	433.925556 MHz	87.51 dBµV/m
Nr.3	433.942222 MHz	67.45 dBµV/m
Nr.4		
Nr.5		
Nr.6		
Nr.7		
Nr.8		

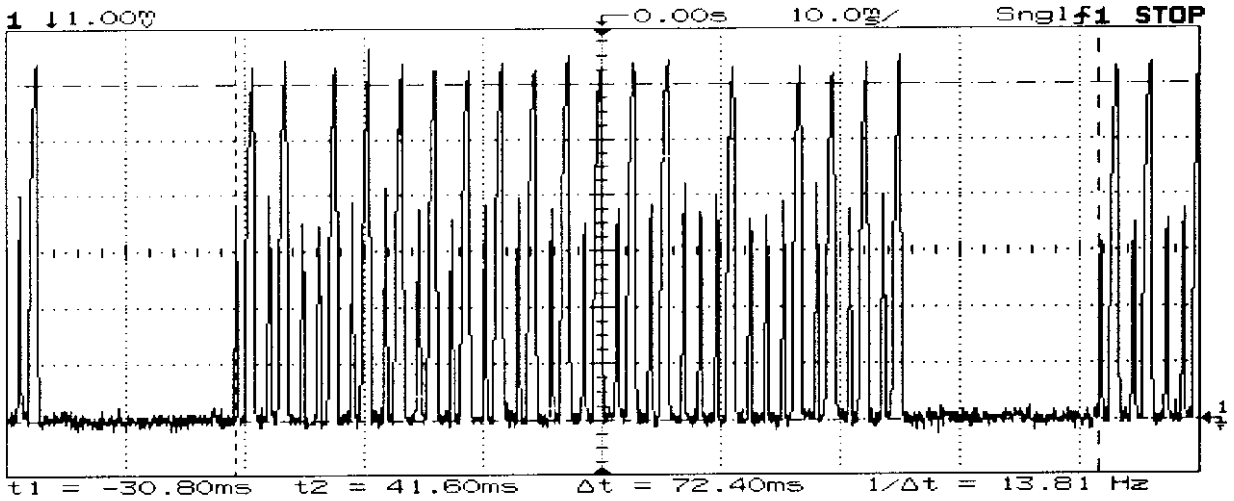
Tested by:
Rainer Heller

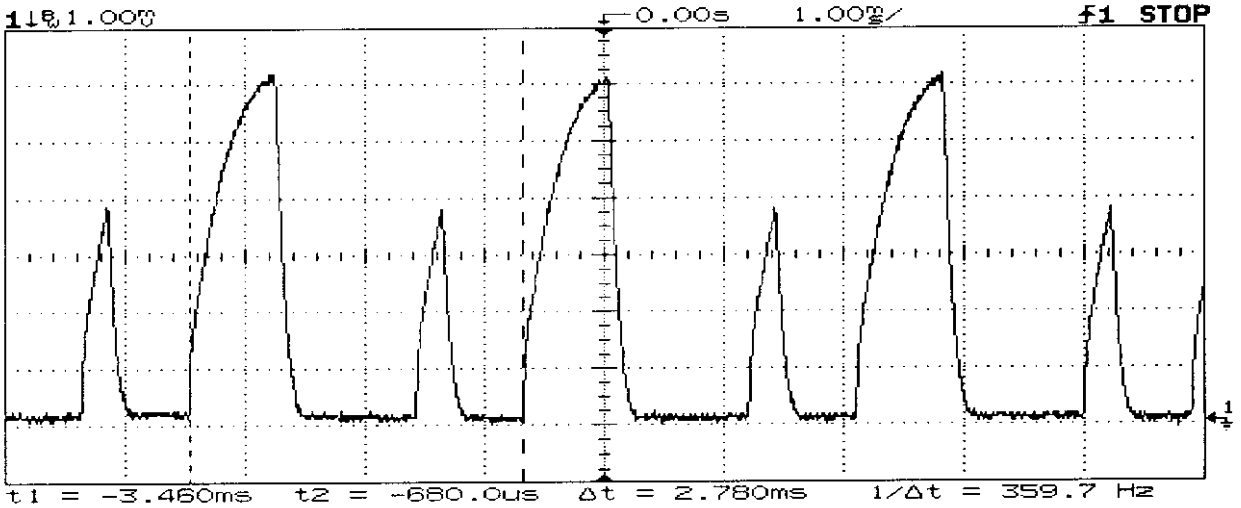
Project-No.:
51935-80535-1

Date:
06/26/1998

Duty Cycle Test
according to FCC Part 15 Subpart C, §15.231 / ANSI C63.4-1992 (I4.10)

Model:	SHT-7 C
Type:	Remote control transmitter
Serial No.:	Sample no. 1
Applicant:	SVS Nachrichtentechnik GmbH
Date of test:	06/26/1998
Operator:	R. Heller
Mode:	- transmitting continuously - with battery supply 12 V DC - all encoder dip switches set to 'open' (standard mode)



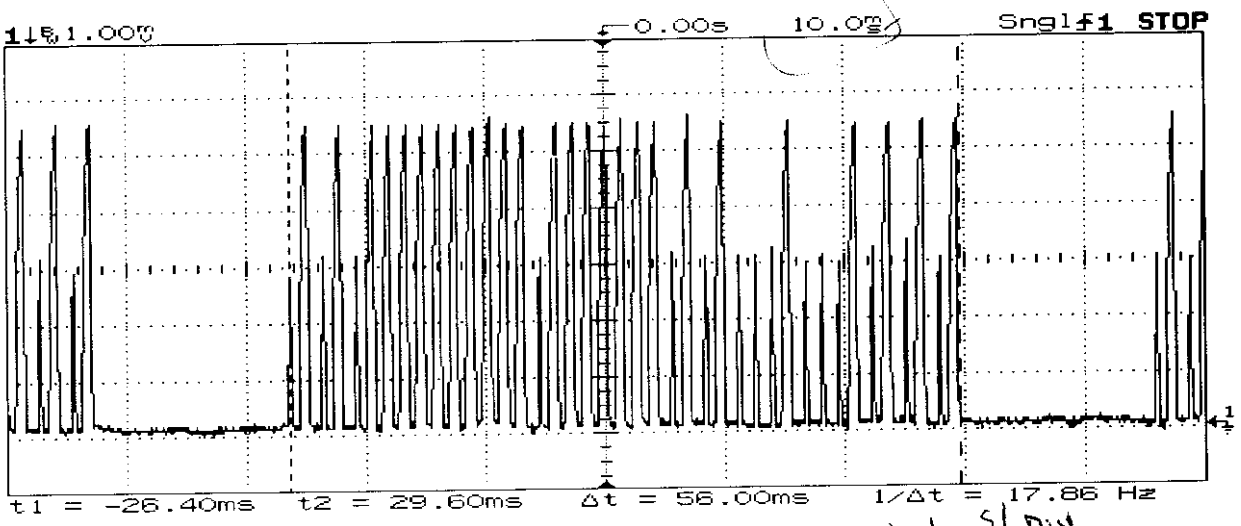


Duty Cycle Test (continued)
according to FCC Part 15 Subpart C, §15.231 / ANSI C63.4-1992 (I4.10)

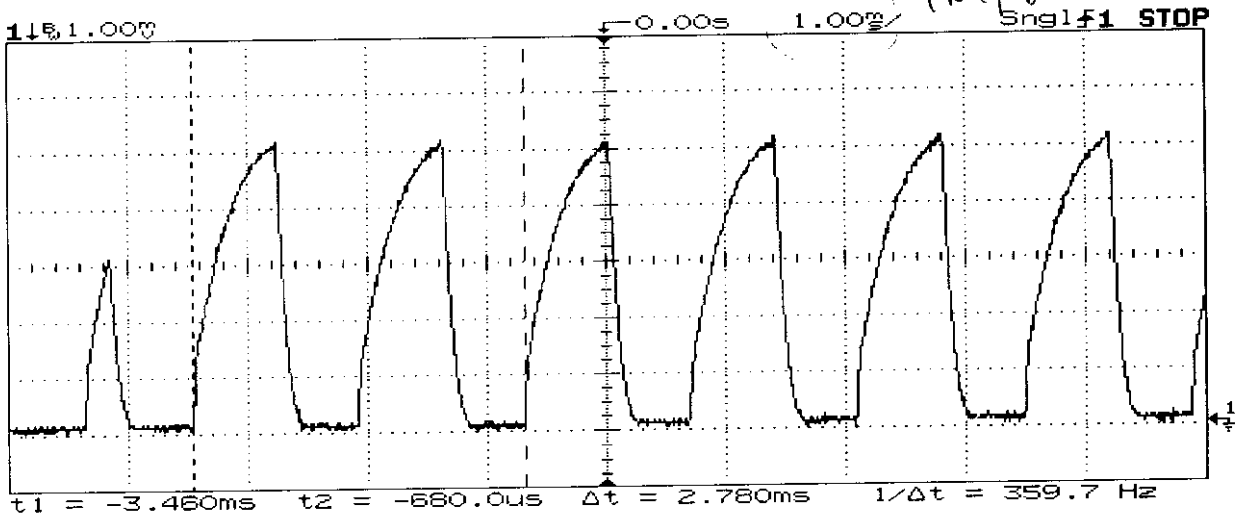
Model:	SHT-7 C
Type:	Remote control transmitter
Serial No.:	Sample no. 1
Applicant:	SVS Nachrichtentechnik GmbH
Date of test:	06/26/1998
Operator:	R. Heller

Mode:
- transmitting continuously
- with battery supply 12 V DC
- all encoder dip switches set to 'zero' (worst case mode)

10 ms/Div



1 ms/Div



,6 ms

Duty Cycle Test (continued)
according to FCC Part 15 Subpart C, §15.231 / ANSI C63.4-1992 (I4.10)

Model:	SHT-7 C
Type:	Remote control transmitter
Serial No.:	Sample no. 1
Applicant:	SVS Nachrichtentechnik GmbH
Date of test:	06/26/1998
Operator:	R. Heller
Mode:	- transmitting continuously - with battery supply 12 V DC

- all encoder dip switches set to 'open' (standard mode)

	Number of pulses	T [ms]	Duty Cycle	Duty Cycle Correction [dB]
Pulse Train		72.400	0.264	-11.6
Transmitter ON (long time)	18	0.680		
Transmitter ON (short time)	23	0.300		

- all encoder dip switches set to 'zero' (worst case mode)

	Number of pulses	T [ms]	Duty Cycle	Duty Cycle Correction [dB]
Pulse Train		72.400	0.306	-10.3 ✓
Transmitter ON (long time)	26 L	0.680		
Transmitter ON (short time)	15 S	0.300		

Radiated emission 30 MHz - 1 GHz acc. to FCC Part 15 Subpart C

Model:
SHT-7 C

Serial No.:
Sample no. 1

Applicant:
SVS Nachrichtentechnik GmbH

Mode:

- transmitting continuously
- with battery supply 12 V DC

- EUT in horizontal position with rear on table

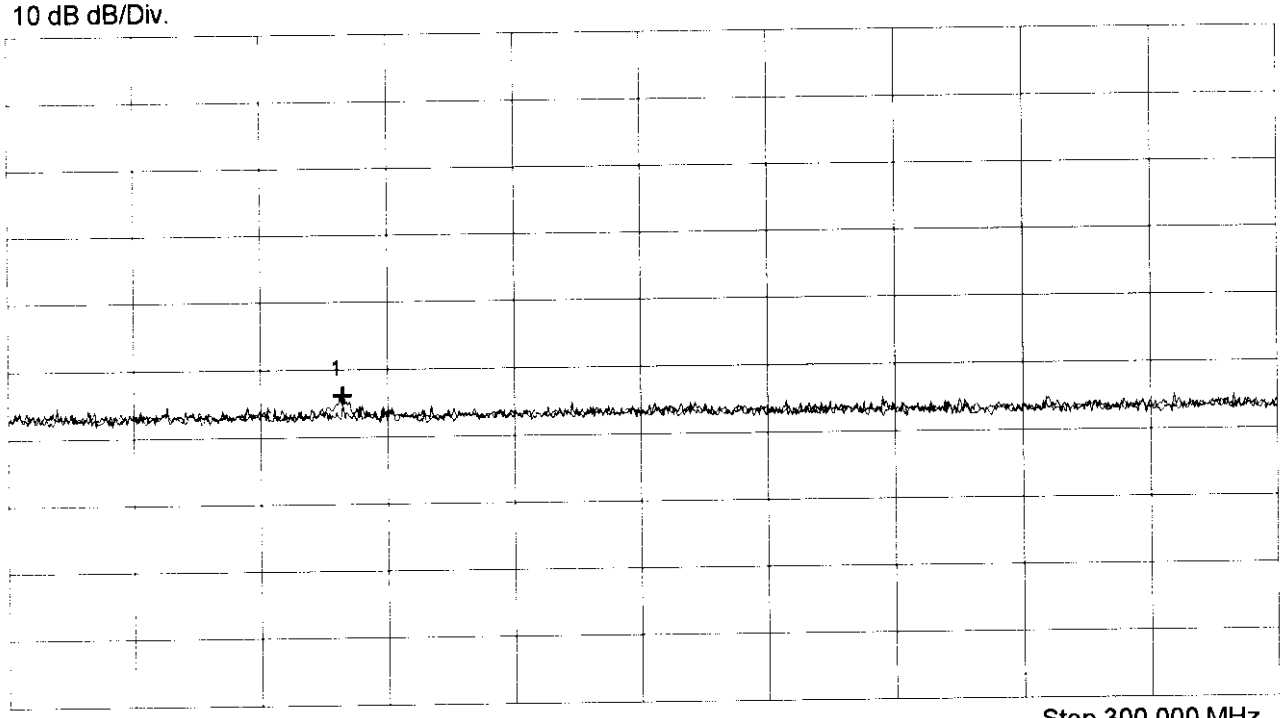
Test distance: 3 meters

Channel A = horizontal polarization
Channel B = vertical polarization

PRESCAN WITHOUT ANY CORRECTIONS!

Ref.Level 60 dBµV
10 dB dB/Div.

ATT 0 dB



Start 30.000 MHz
RBW 100 kHz

VBW 100 kHz

Stop 300.000 MHz
SWP 100 ms

**** Multi Marker ****

Nr.1	101.400000 MHz	6.18 dBµV
Nr.2		
Nr.3		
Nr.4		
Nr.5		
Nr.6		
Nr.7		
Nr.8		

A

Tested by:
Rainer Heller

Project-No.:
51935-80535-1

Date:
06/25/1998

Radiated emission 30 MHz - 1 GHz acc. to FCC Part 15 Subpart C

Model:
SHT-7 C

Serial No.:
Sample no. 1

Applicant:
SVS Nachrichtentechnik GmbH

Mode:

- transmitting continuously
- with battery supply 12 V DC

- EUT in horizontal position with rear on table

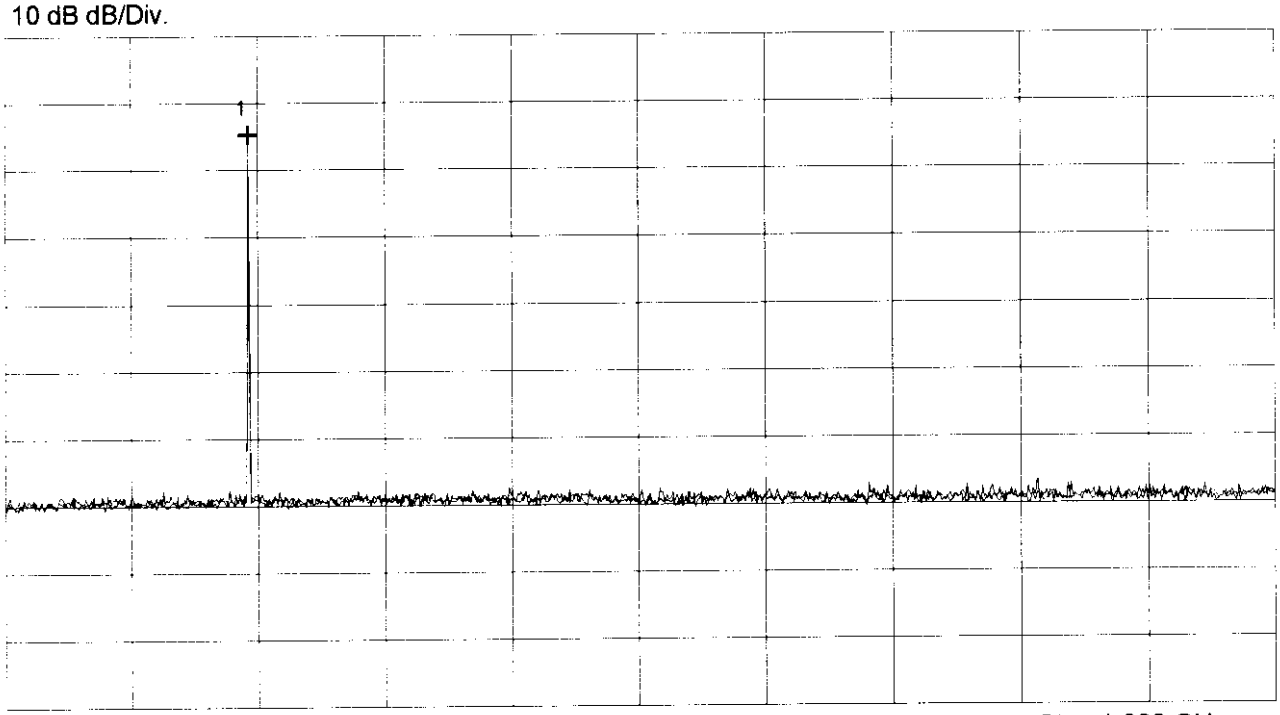
Test distance: 3 meters

Channel A = horizontal polarization
Channel B = vertical polarization

PRESCAN WITHOUT ANY CORRECTIONS!

Ref.Level 80 dBµV
10 dB dB/Div.

ATT 0 dB



Start 300.000 MHz
RBW 100 kHz

VBW 100 kHz

Stop 1.000 GHz
SWP 220 ms

**** Multi Marker ****

Nr.1	434.555556 MHz	65.33 dBµV	A
Nr.2			
Nr.3			
Nr.4			
Nr.5			
Nr.6			
Nr.7			
Nr.8			

Tested by:
Rainer Heller

Project-No.:
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Date:
06/25/1998

Radiated emission 30 MHz - 1 GHz acc. to FCC Part 15 Subpart C

Model:
SHT-7 C

Serial No.:
Sample no. 1

Applicant:
SVS Nachrichtentechnik GmbH

Mode:

- transmitting continuously
- with battery supply 12 V DC

- EUT in horizontal position with right hand side on table

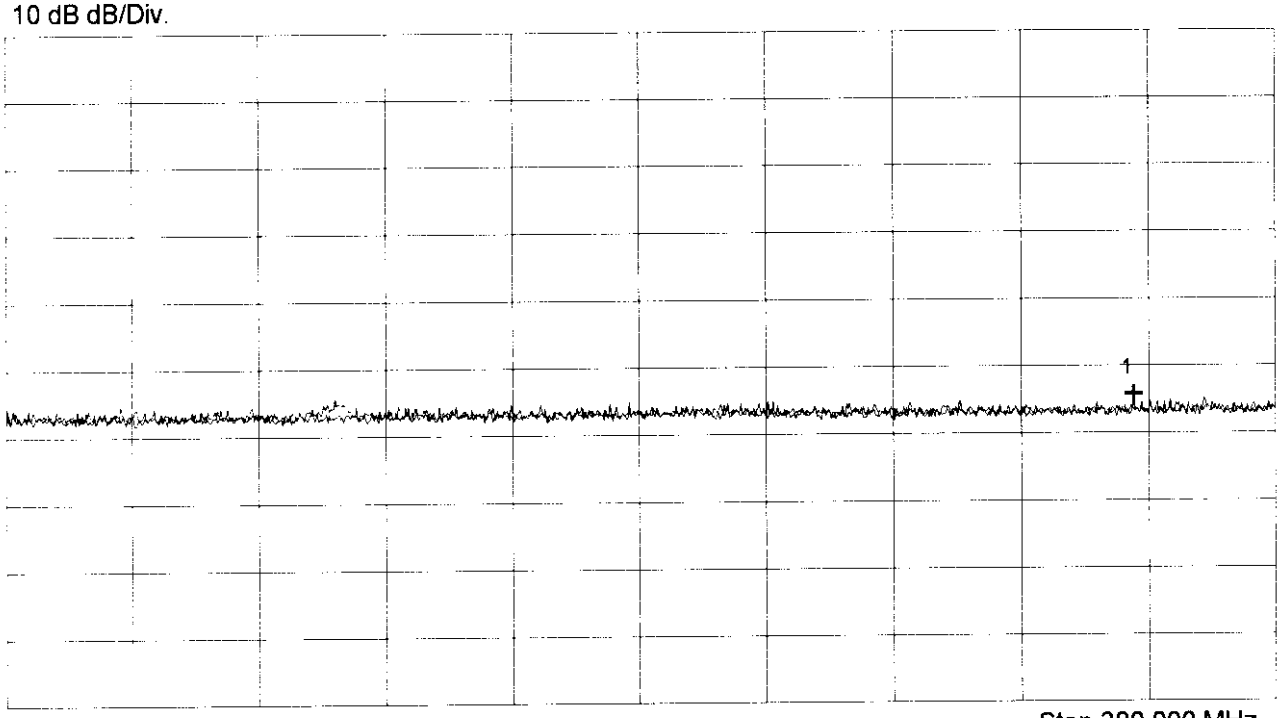
Test distance: 3 meters

Channel A = horizontal polarization
Channel B = vertical polarization

PRESCAN WITHOUT ANY CORRECTIONS!

Ref.Level 60 dBµV
10 dB dB/Div.

ATT 0 dB



Start 30.000 MHz
RBW 100 kHz

VBW 100 kHz

Stop 300.000 MHz
SWP 100 ms

**** Multi Marker ****

Nr.1	269.700000 MHz	5.74 dBµV
Nr.2		
Nr.3		
Nr.4		
Nr.5		
Nr.6		
Nr.7		
Nr.8		

B

Tested by:
Rainer Heller

Project-No.:
51935-80535-1

Date:

Radiated emission 30 MHz - 1 GHz acc. to FCC Part 15 Subpart C

Model:
SHT-7 C

Serial No.:
Sample no. 1

Applicant:
SVS Nachrichtentechnik GmbH

Mode:

- transmitting continuously
- with battery supply 12 V DC

- EUT in horizontal position with right hand side on table

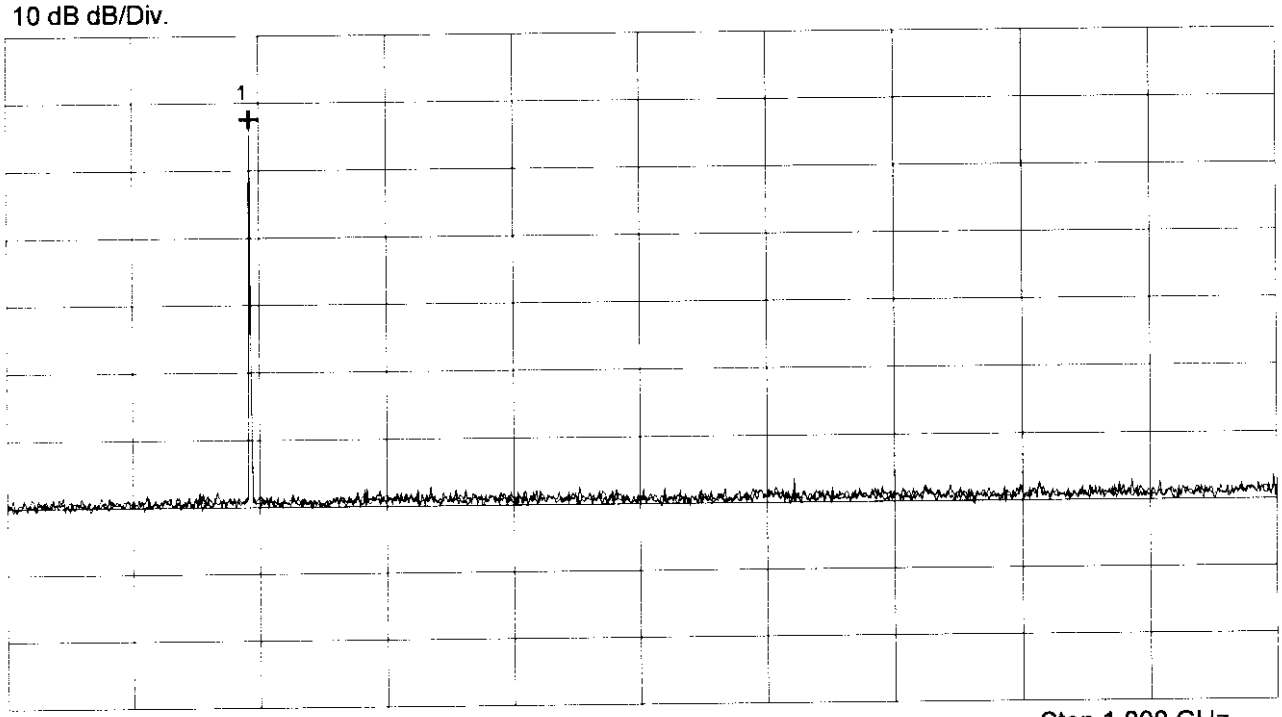
Test distance: 3 meters

Channel A = horizontal polarization
Channel B = vertical polarization

PRESCAN WITHOUT ANY CORRECTIONS!

Ref.Level 80 dBµV
10 dB dB/Div.

ATT 0 dB



Start 300.000 MHz
RBW 100 kHz

VBW 100 kHz

Stop 1.000 GHz
SWP 220 ms

**** Multi Marker ****

Nr.1	434.555556 MHz	67.59 dBµV	A
Nr.2			
Nr.3			
Nr.4			
Nr.5			
Nr.6			
Nr.7			
Nr.8			

Tested by:
Rainer Heller

Project-No.:
51935-80535-1

Date:
06/25/1998

Radiated emission 30 MHz - 1 GHz acc. to FCC Part 15 Subpart C

Model:
SHT-7 C

Serial No.:
Sample no. 1

Applicant:
SVS Nachrichtentechnik GmbH

Mode:

- transmitting continuously
- with battery supply 12 V DC

- EUT in vertical position with antenna to the top

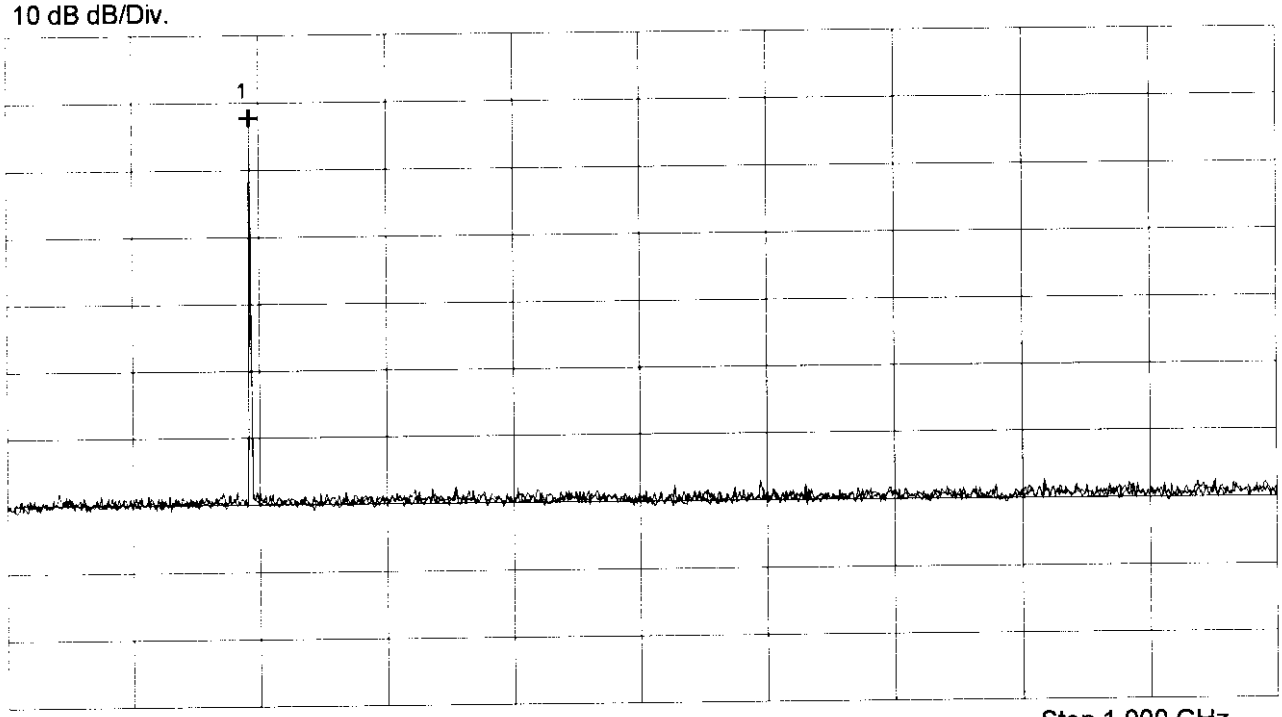
Test distance: 3 meters

Channel A = horizontal polarization
Channel B = vertical polarization

PRESCAN WITHOUT ANY CORRECTIONS!

Ref.Level 80 dBµV
10 dB dB/Div.

ATT 0 dB



Start 300.000 MHz
RBW 100 kHz

VBW 100 kHz

Stop 1.000 GHz
SWP 220 ms

**** Multi Marker ****

Nr.1	434.555556 MHz	67.72 dBµV
Nr.2		
Nr.3		
Nr.4		
Nr.5		
Nr.6		
Nr.7		
Nr.8		

B

Tested by:
Rainer Heller

Project-No.:
51935-80535-1

Date:
06/25/1998

Radiated emission 30 MHz - 1 GHz acc. to FCC Part 15 Subpart C

Model:
SHT-7 C

Serial No.:
Sample no. 1

Applicant:
SVS Nachrichtentechnik GmbH

Mode:

- transmitting continuously
- with battery supply 12 V DC

- EUT in vertical position with antenna to the top

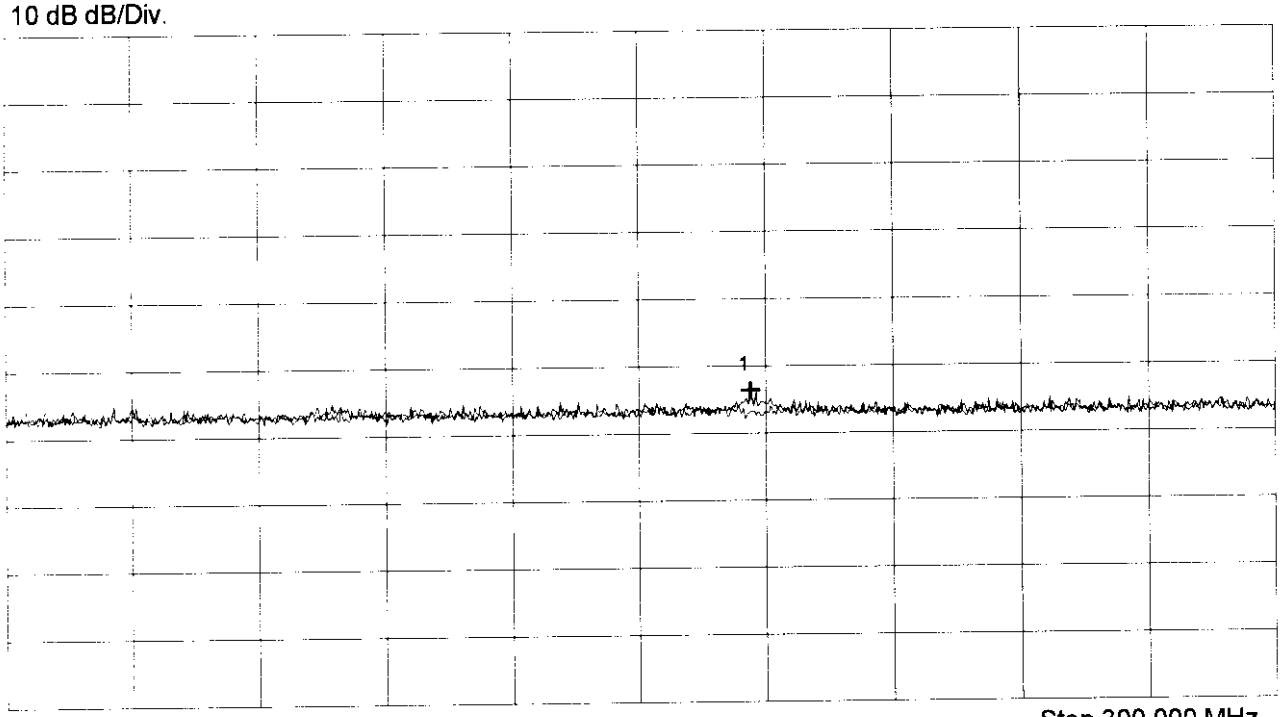
Test distance: 3 meters

Channel A = horizontal polarization
Channel B = vertical polarization

PRESCAN WITHOUT ANY CORRECTIONS!

Ref.Level 60 dBµV
10 dB dB/Div.

ATT 0 dB



Start 30.000 MHz
RBW 100 kHz

VBW 100 kHz

Stop 300.000 MHz
SWP 100 ms

**** Multi Marker ****

Nr.1	188.700000 MHz	6.30 dBµV	A
Nr.2			
Nr.3			
Nr.4			
Nr.5			
Nr.6			
Nr.7			
Nr.8			

Tested by:
Rainer Heller

Project-No.:
51935-80535-1

Date:

Radiated Emission 30 MHz - 1 GHz (Final Test)
according to FCC Part 15 Subpart C, §15.231.b

Model: SHT-7 C
Type: Remote control transmitter
Serial No.: Sample no. 1
Applicant: SVS Nachrichtentechnik GmbH
Test-site: Open area test-site I
Test distance: 3 meters
Date of test: 06/26/1998
Operator: R. Heller

Mode: - transmitting continuously
- with battery supply 12 V DC

- EUT in vertical position with antenna to the top

Detector: Peak

Polarization: horizontal

Frequency [MHz]	Receiver reading [dBµV]	Correction factor [dB]	Fieldstrength Peak [dBµV/m]	Limit Peak [dBµV/m]	Duty cycle correction [dB]	Fieldstrength Average [dBµV/m]	Limit Average [dBµV/m]	Limit exceeded
433.90	55.6	21.3	76.9	100.8	10.3	66.6	80.8	
867.82	15.5	29.9	45.4	80.8	10.3	35.1	60.8	

Result: The limits are kept.

Radiated Emission 30 MHz - 1 GHz (Final Test)
according to FCC Part 15 Subpart C, §15.231.b

Model: SHT-7 C
Type: Remote control transmitter
Serial No.: Sample no. 1
Applicant: SVS Nachrichtentechnik GmbH
Test-site: Open area test-site I
Test distance: 3 meters
Date of test: 06/26/1998
Operator: R. Heller

Mode: - transmitting continuously
- with battery supply 12 V DC

- EUT in vertical position with antenna to the top

Detector: Peak

Polarization: vertical

Frequency [MHz]	Receiver reading [dBµV]	Correction factor [dB]	Fieldstrength Peak [dBµV/m]	Limit Peak [dBµV/m]	Duty cycle correction [dB]	Fieldstrength Average [dBµV/m]	Limit Average [dBµV/m]	Limit exceeded
433.90	68.2	21.3	89.5	100.8	10.3	79.2	80.8	
867.82	8.1	29.9	38.0	80.8	10.3	27.7	60.8	

Result: The limits are kept.

Radiated Emission 1 GHz - 5 GHz
according to FCC Part 15 Subpart C, §15.231.b

Model: SHT-7 C
Type: Remote control transmitter
Serial No.: Sample no. 1
Applicant: SVS Nachrichtentechnik GmbH
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 06/25/1998
Operator: R. Heller
Mode: - transmitting continuously
- with battery supply 12 V DC

- EUT in horizontal position with rear on table

Detector: Peak

Frequency [GHz]	Polarization	Analyzer-reading [dBµV]	Antenna-correction [dB]	Cable-correction [dB]	Fieldstrength Peak [dBµV/m]	Limit Peak [dBµV/m]	Duty cycle correction [dB]	Fieldstrength Average [dBµV/m]	Limit Average [dBµV/m]	Limit exceeded
1.7356	horizontal	15.1	27.9	0.5	43.5	80.8	10.3	33.2	60.8	
2.1695	vertical	15.8	29.6	0.6	46.0	80.8	10.3	35.7	60.8	
2.6034	vertical	22.1	23.7	0.6	46.4	80.8	10.3	36.1	60.8	
3.0373	horizontal	28.3	23.7	0.7	52.7	80.8	10.3	42.4	60.8	
3.4712	horizontal	20.9	23.8	0.7	45.4	80.8	10.3	35.1	60.8	
3.9051	vertical	25.9	23.8	0.8	50.5	74.0	10.3	40.2	54.0	
4.3390	vertical	13.4	27.2	0.8	41.5	74.0	10.3	31.2	54.0	
4.7729	vertical	12.5	27.3	0.9	40.6	74.0	10.3	30.3	54.0	

Note: Frequency error of markers is depending on span of analyzer. Therefore exact frequency values are calculated as harmonics of fundamental frequency.

Result: The limits are kept.

Radiated emission 1 GHz - 5 GHz acc. to FCC Part 15 Subpart C

Model:
SHT-7 C

Serial No.:
Sample no. 1

Applicant:
SVS Nachrichtentechnik GmbH

Mode:

- transmitting continuously
- with battery supply 12 V DC

- EUT in horizontal position with rear on table

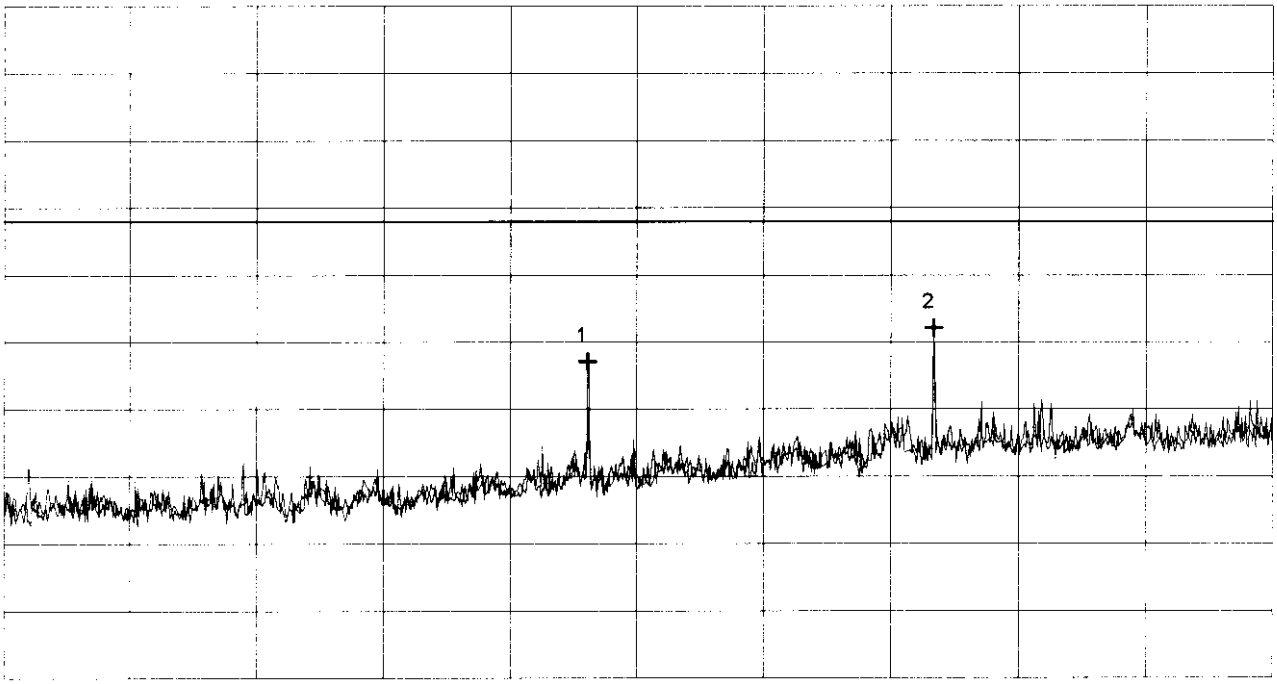
Test distance: 3 meters

Channel A = horizontal polarization
Channel B = vertical polarization

Ref.Level 70 dBµV/m
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 1.000 GHz
RBW 1 MHz

VBW 1 MHz

Stop 2.600 GHz
SWP 20 ms

**** Multi Marker ****

Nr.1	1.737778 GHz	43.52 dBµV/m	A
Nr.2	2.173333 GHz	46.01 dBµV/m	B
Nr.3			
Nr.4			
Nr.5			
Nr.6			
Nr.7			
Nr.8			

Tested by:
Rainer Heller

Project-No.:
51935-80535-1

Date:
06/25/1998

Radiated emission 1 GHz - 5 GHz acc. to FCC Part 15 Subpart C

Model:
SHT-7 C

Serial No.:
Sample no. 1

Applicant:
SVS Nachrichtentechnik GmbH

Mode:

- transmitting continuously
- with battery supply 12 V DC

- EUT in horizontal position with rear on table

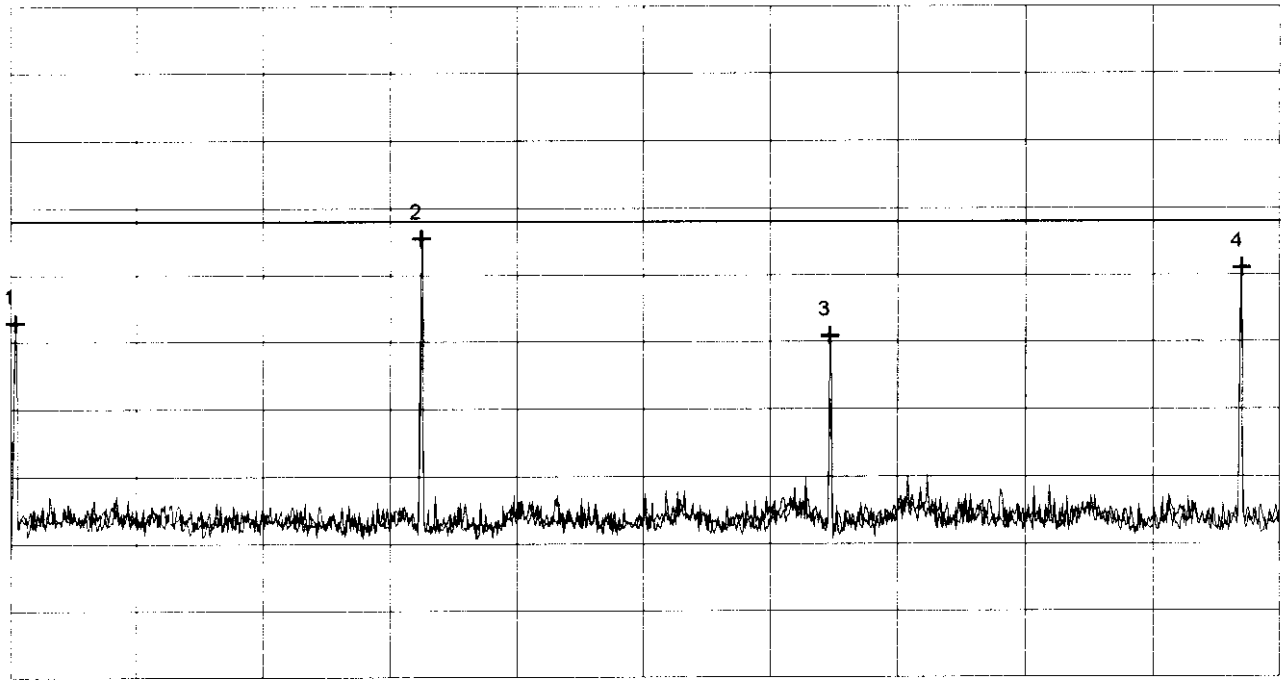
Test distance: 3 meters

Channel A = horizontal polarization
Channel B = vertical polarization

Ref.Level 70 dBµV/m
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 2.600 GHz
RBW 1 MHz

VBW 1 MHz

Stop 3.950 GHz
SWP 60 ms

**** Multi Marker ****

Nr.1	2.604500 GHz	46.39 dBµV/m	B
Nr.2	3.038000 GHz	52.72 dBµV/m	A
Nr.3	3.473000 GHz	45.43 dBµV/m	A
Nr.4	3.909500 GHz	50.51 dBµV/m	B
Nr.5			
Nr.6			
Nr.7			
Nr.8			

Tested by:
Rainer Heller

Project-No.:
51935-80535-1

Date:
06/25/1998

Radiated emission 1 GHz - 5 GHz acc. to FCC Part 15 Subpart C

Model:
SHT-7 C

Serial No.:
Sample no. 1

Applicant:
SVS Nachrichtentechnik GmbH

Mode:

- transmitting continuously
- with battery supply 12 V DC

- EUT in horizontal position with rear on table

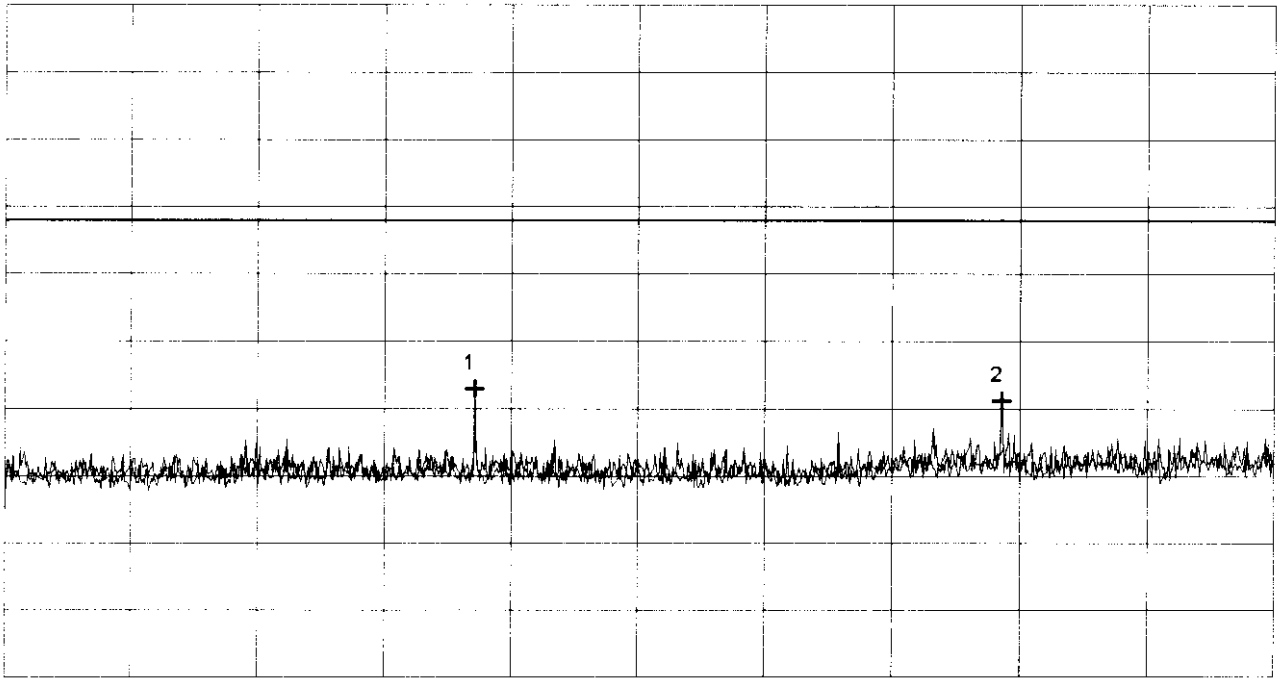
Test distance: 3 meters

Channel A = horizontal polarization
Channel B = vertical polarization

Ref.Level 70 dBµV/m
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 3.950 GHz
RBW 1 MHz

VBW 1 MHz

Stop 5.000 GHz
SWP 100 ms

**** Multi Marker ****

Nr.1	4.339667 GHz	41.47 dBµV/m	B
Nr.2	4.774833 GHz	40.60 dBµV/m	B
Nr.3			
Nr.4			
Nr.5			
Nr.6			
Nr.7			
Nr.8			

Tested by:
Rainer Heller

Project-No.:
51935-80535-1

Date:

Radiated Emission 1 GHz - 5 GHz
according to FCC Part 15 Subpart C, §15.231.b

Model: SHT-7 C
Type: Remote control transmitter
Serial No.: Sample no. 1
Applicant: SVS Nachrichtentechnik GmbH
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 06/25/1998
Operator: R. Heller
Mode: - transmitting continuously
- with battery supply 12 V DC

- EUT in horizontal position with right hand side on table

Detector: Peak

Frequency [GHz]	Polarization	Analyzer-reading [dBµV]	Antenna-correction [dB]	Cable-correction [dB]	Fieldstrength Peak [dBµV/m]	Limit Peak [dBµV/m]	Duty cycle correction [dB]	Fieldstrength Average [dBµV/m]	Limit Average [dBµV/m]	Limit exceeded
1.7356	horizontal	14.2	27.9	0.5	42.6	80.8	10.3	32.3	60.8	
2.1695	horizontal	15.4	29.6	0.6	45.6	80.8	10.3	35.3	60.8	
2.6034	vertical	23.2	23.7	0.6	47.6	80.8	10.3	37.3	60.8	
3.0373	vertical	26.5	23.7	0.7	50.9	80.8	10.3	40.6	60.8	
3.4712	vertical	23.5	23.8	0.7	48.0	80.8	10.3	37.7	60.8	
3.9054	vertical	29.9	23.8	0.8	54.4	74.0	10.3	44.1	54.0	
4.3393	vertical	18.4	27.2	0.8	46.4	74.0	10.3	36.1	54.0	

Note: Frequency error of markers is depending on span of analyzer. Therefore exact frequency values are calculated as harmonics of fundamental frequency.

Result: The limits are kept.

Radiated emission 1 GHz - 5 GHz acc. to FCC Part 15 Subpart C

Model:
SHT-7 C

Serial No.:
Sample no. 1

Applicant:
SVS Nachrichtentechnik GmbH

Mode:

- transmitting continuously
- with battery supply 12 V DC

- EUT in horizontal position with right hand side on table

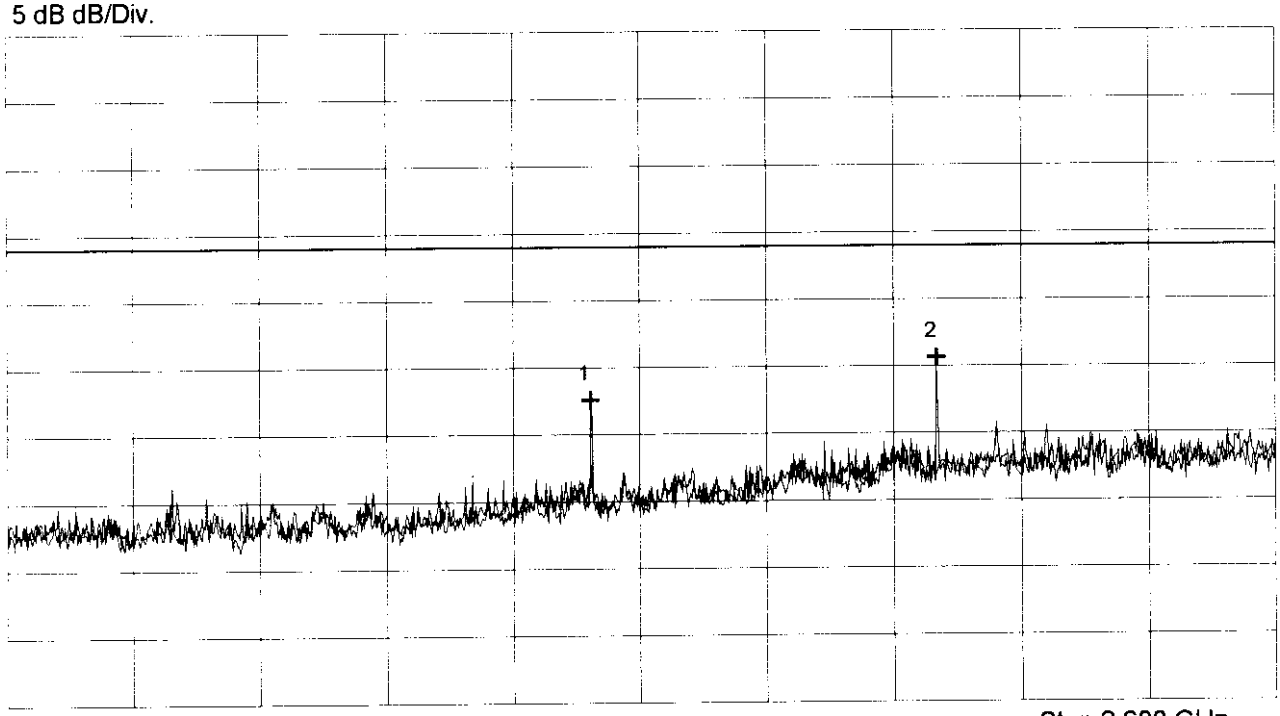
Test distance: 3 meters

Channel A = horizontal polarization
Channel B = vertical polarization

Ref.Level 70 dBµV/m
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 1.000 GHz
RBW 1 MHz

VBW 1 MHz

Stop 2.600 GHz
SWP 20 ms

**** Multi Marker ****

Nr.1	1.737778 GHz	42.61 dBµV/m	A
Nr.2	2.173333 GHz	45.63 dBµV/m	A
Nr.3			
Nr.4			
Nr.5			
Nr.6			
Nr.7			
Nr.8			

Tested by:
Rainer Heller

Project-No.:
51935-80535-1

Date:

Radiated emission 1 GHz - 5 GHz acc. to FCC Part 15 Subpart C

Model:
SHT-7 C

Serial No.:
Sample no. 1

Applicant:
SVS Nachrichtentechnik GmbH

Mode:

- transmitting continuously
- with battery supply 12 V DC

- EUT in horizontal position with right hand side on table

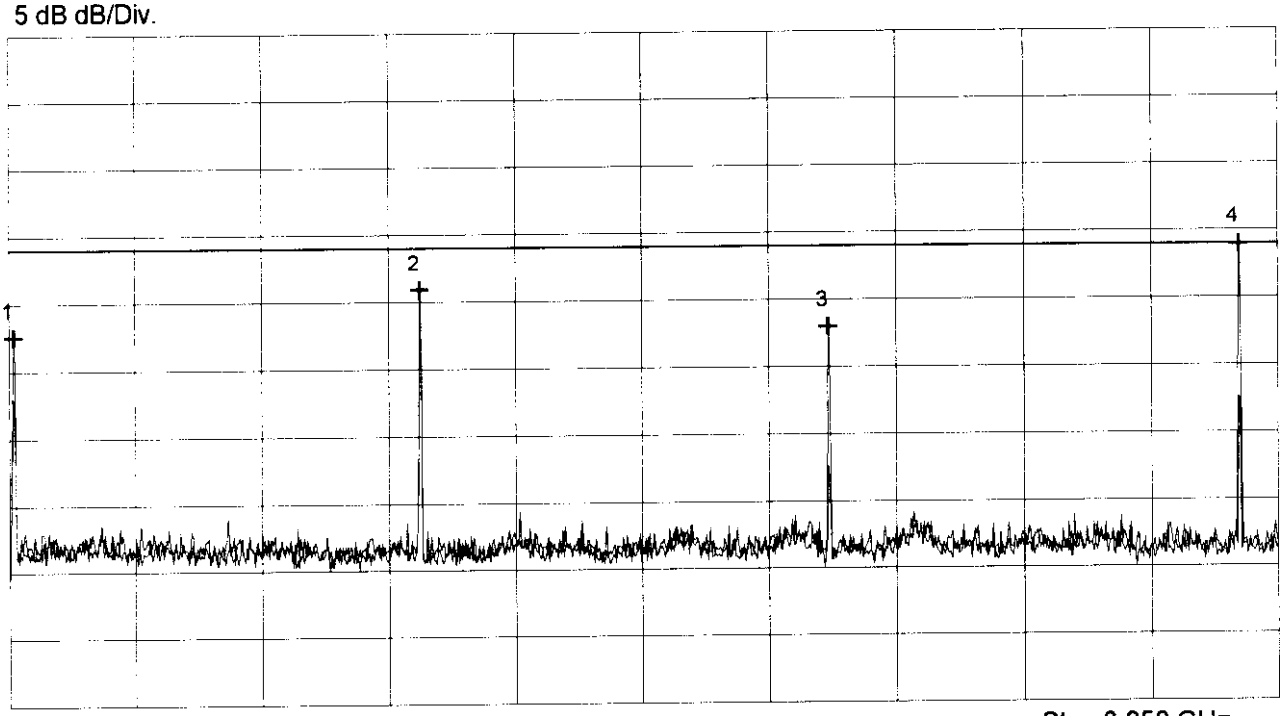
Test distance: 3 meters

Channel A = horizontal polarization
Channel B = vertical polarization

Ref.Level 70 dBµV/m
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 2.600 GHz
RBW 1 MHz

VBW 1 MHz

Stop 3.950 GHz
SWP 60 ms

**** Multi Marker ****

Nr.1	2.604500 GHz	47.56 dBµV/m	B
Nr.2	3.038000 GHz	50.89 dBµV/m	B
Nr.3	3.473000 GHz	47.99 dBµV/m	B
Nr.4	3.908000 GHz	53.96 dBµV/m	B
Nr.5			
Nr.6			
Nr.7			
Nr.8			

Tested by:
Rainer Heller

Project-No.:
51935-80535-1

Date:

Radiated emission 1 GHz - 5 GHz acc. to FCC Part 15 Subpart C

Model:
SHT-7 C

Serial No.:
Sample no. 1

Applicant:
SVS Nachrichtentechnik GmbH

Mode:

- transmitting continuously
- with battery supply 12 V DC

- EUT in horizontal position with right hand side on table

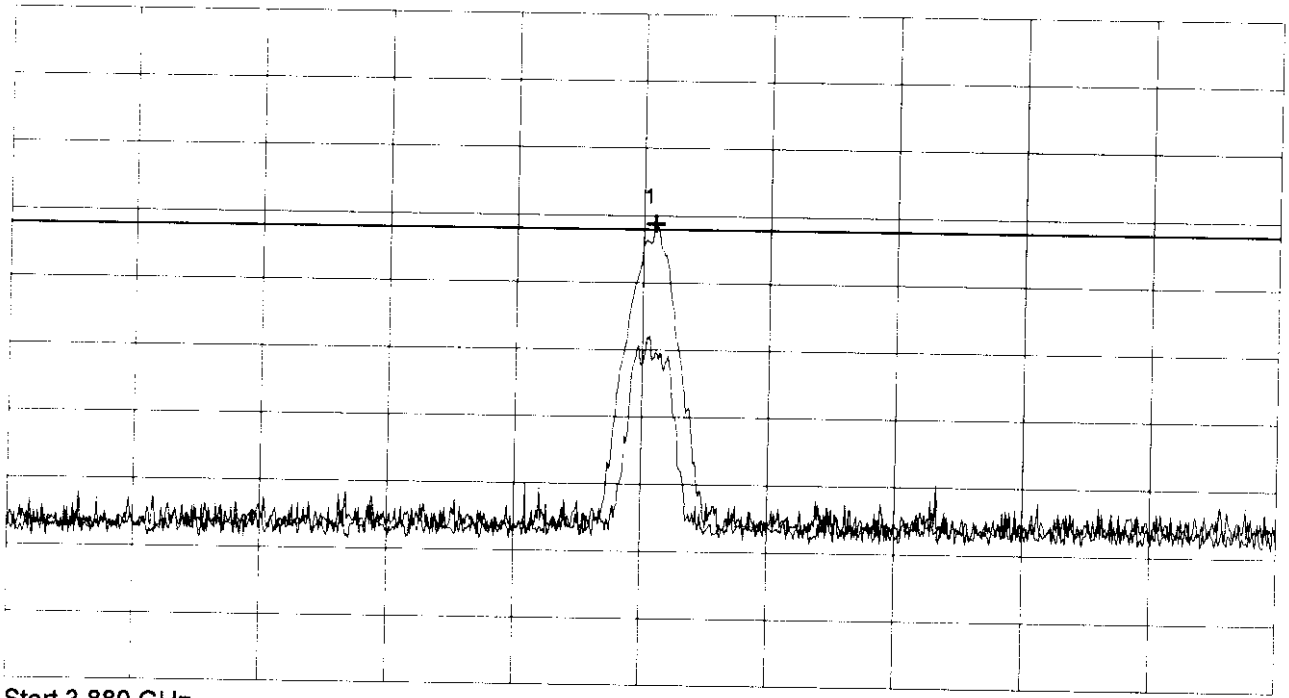
Test distance: 3 meters

Channel A = horizontal polarization
Channel B = vertical polarization

Ref.Level 70 dBµV/m
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 3.880 GHz
RBW 1 MHz

VBW 1 MHz

Stop 3.930 GHz
SWP 100 ms

**** Multi Marker ****

Nr.1	3.905444 GHz	54.44 dBµV/m
Nr.2		
Nr.3		
Nr.4		
Nr.5		
Nr.6		
Nr.7		
Nr.8		

B

Tested by:
Rainer Heller

Project-No.:
51935-80535-1

Date:
06/25/1998

Radiated emission 1 GHz - 5 GHz acc. to FCC Part 15 Subpart C

Model:
SHT-7 C

Serial No.:
Sample no. 1

Applicant:
SVS Nachrichtentechnik GmbH

Mode:

- transmitting continuously
- with battery supply 12 V DC

- EUT in horizontal position with right hand side on table

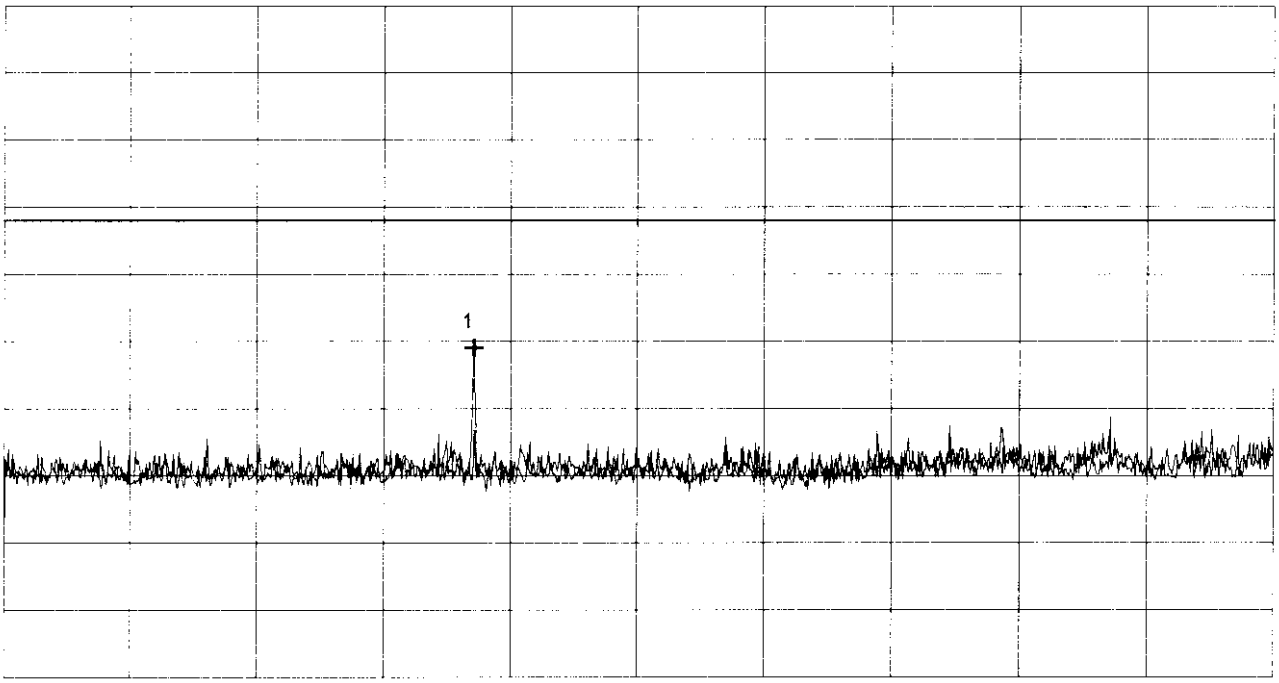
Test distance: 3 meters

Channel A = horizontal polarization
Channel B = vertical polarization

Ref.Level 70 dBµV/m
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 3.950 GHz
RBW 1 MHz

VBW 1 MHz

Stop 5.000 GHz
SWP 100 ms

**** Multi Marker ****

Nr.1	4.339667 GHz	44.51 dBµV/m
Nr.2		
Nr.3		
Nr.4		
Nr.5		
Nr.6		
Nr.7		
Nr.8		

B

Tested by:
Rainer Heller

Project-No.:
51935-80535-1

Date:

Radiated emission 1 GHz - 5 GHz acc. to FCC Part 15 Subpart C

Model:
SHT-7 C

Serial No.:
Sample no. 1

Applicant:
SVS Nachrichtentechnik GmbH

Mode:

- transmitting continuously
- with battery supply 12 V DC

- EUT in horizontal position with right hand side on table

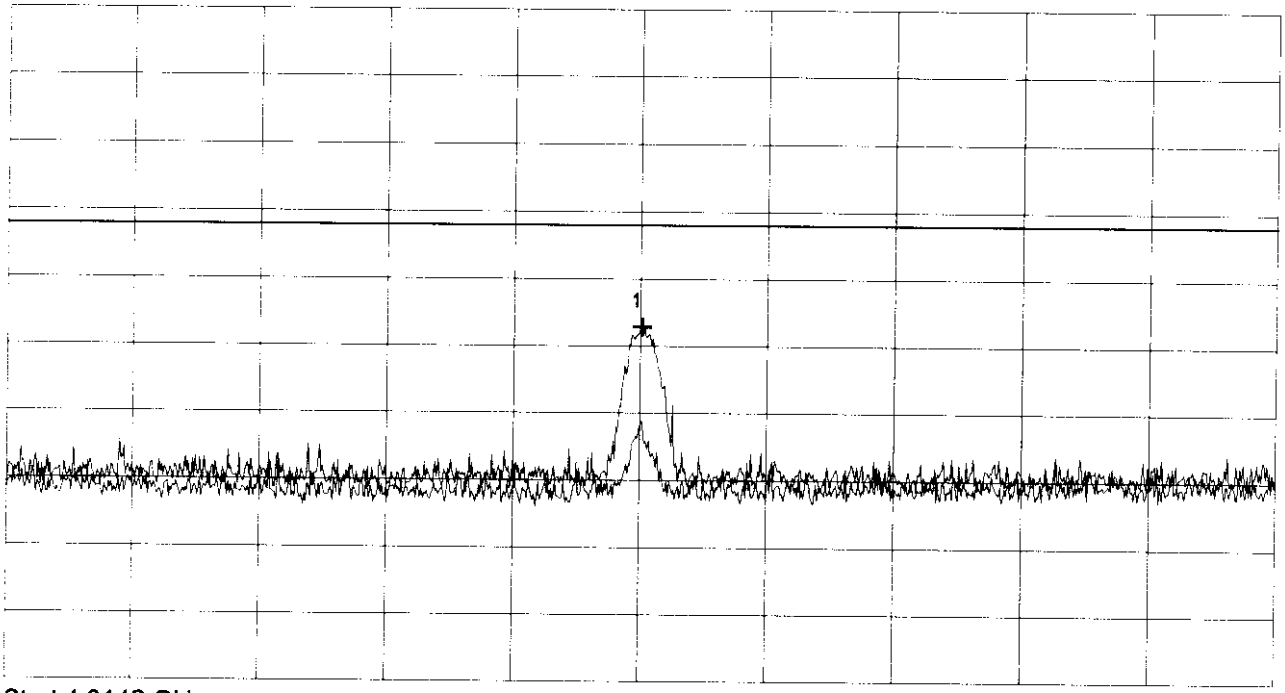
Test distance: 3 meters

Channel A = horizontal polarization
Channel B = vertical polarization

Ref.Level 70 dBµV/m
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 4.3142 GHz
RBW 1 MHz

VBW 1 MHz

Stop 4.3642 GHz
SWP 100 ms

**** Multi Marker ****

Nr.1	4.339256 GHz	46.42 dBµV/m
Nr.2		
Nr.3		
Nr.4		
Nr.5		
Nr.6		
Nr.7		
Nr.8		

B

Tested by:
Rainer Heller

Project-No.:
51935-80535-1

Date:
06/25/1998

Radiated Emission 1 GHz - 5 GHz
according to FCC Part 15 Subpart C, §15.231.b

Model: SHT-7 C
Type: Remote control transmitter
Serial No.: Sample no. 1
Applicant: SVS Nachrichtentechnik GmbH
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 06/25/1998
Operator: R. Heller
Mode: - transmitting continuously
- with battery supply 12 V DC

- EUT in vertical position with antenna to the top

Detector: Peak

Frequency [GHz]	Polarization	Analyzer-reading [dBµV]	Antenna-correction [dB]	Cable-correction [dB]	Fieldstrength Peak [dBµV/m]	Limit Peak [dBµV/m]	Duty cycle correction [dB]	Fieldstrength Average [dBµV/m]	Limit Average [dBµV/m]	Limit exceeded
1.7356	vertical	15.5	27.9	0.5	44.0	80.8	10.3	33.7	60.8	
2.1695	vertical	13.1	29.6	0.6	43.3	80.8	10.3	33.0	60.8	
2.6034	vertical	20.0	23.7	0.6	44.4	80.8	10.3	34.1	60.8	
3.0373	horizontal	24.2	23.7	0.7	48.5	80.8	10.3	38.2	60.8	
3.4712	horizontal	20.9	23.8	0.7	45.4	80.8	10.3	35.1	60.8	
3.9051	horizontal	28.3	23.8	0.8	52.9	74.0	10.3	42.6	54.0	
4.3390	horizontal	15.2	27.2	0.8	43.2	74.0	10.3	32.9	54.0	

Note: Frequency error of markers is depending on span of analyzer. Therefore exact frequency values are calculated as harmonics of fundamental frequency.

Result: The limits are kept.

Radiated emission 1 GHz - 5 GHz acc. to FCC Part 15 Subpart C

Model:
SHT-7 C

Serial No.:
Sample no. 1

Applicant:
SVS Nachrichtentechnik GmbH

Mode:

- transmitting continuously
- with battery supply 12 V DC

- EUT in vertical position with antenna to the top

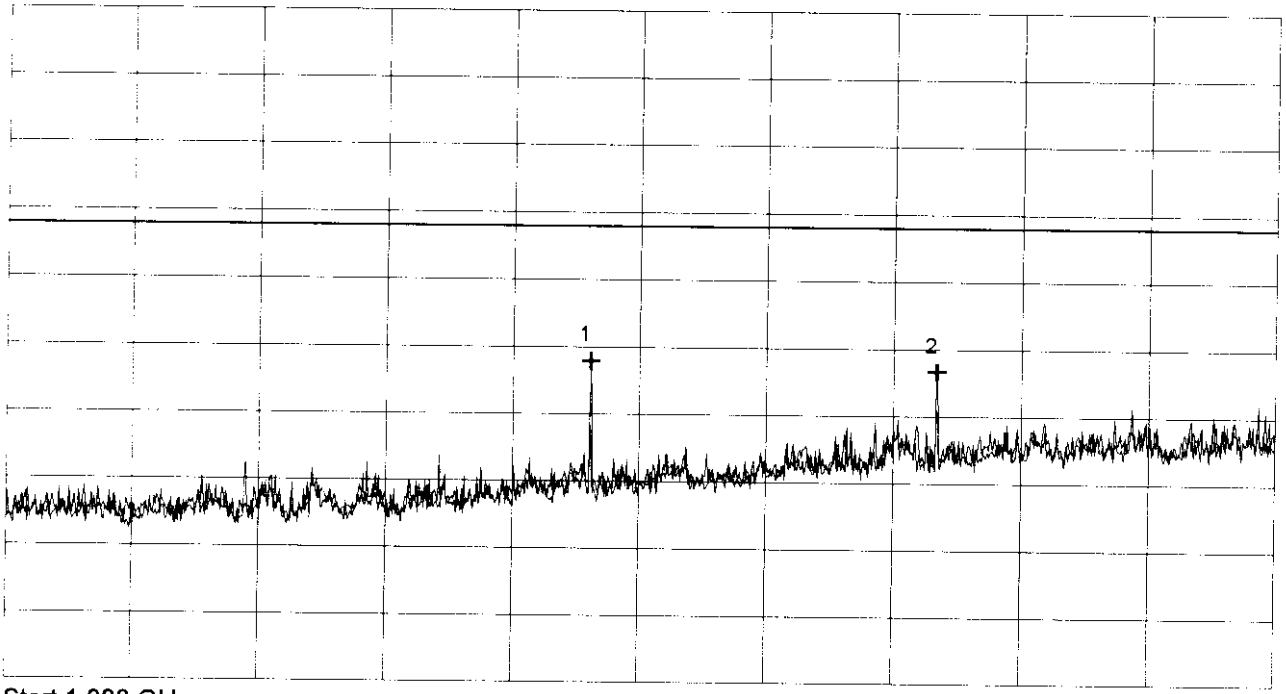
Test distance: 3 meters

Channel A = horizontal polarization
Channel B = vertical polarization

Ref.Level 70 dBµV/m
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 1.000 GHz
RBW 1 MHz

VBW 1 MHz

Stop 2.600 GHz
SWP 20 ms

**** Multi Marker ****

Nr.1	1.737778 GHz	43.96 dBµV/m	B
Nr.2	2.173333 GHz	43.30 dBµV/m	B
Nr.3			
Nr.4			
Nr.5			
Nr.6			
Nr.7			
Nr.8			

Tested by:
Rainer Heller

Project-No.:
51935-80535-1

Date:
06/25/1998

Radiated emission 1 GHz - 5 GHz acc. to FCC Part 15 Subpart C

Model:
SHT-7 C

Serial No.:
Sample no. 1

Applicant:
SVS Nachrichtentechnik GmbH

Mode:

- transmitting continuously
- with battery supply 12 V DC

- EUT in vertical position with antenna to the top

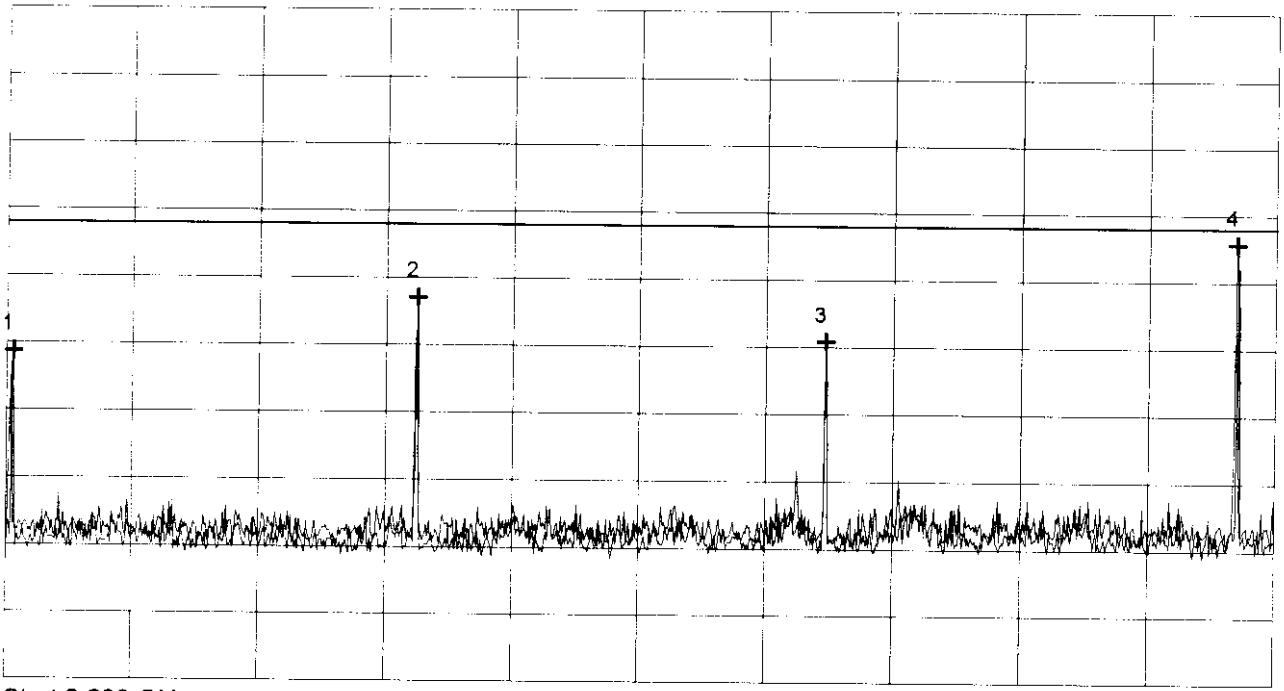
Test distance: 3 meters

Channel A = horizontal polarization
Channel B = vertical polarization

Ref.Level 70 dBµV/m
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 2.600 GHz
RBW 1 MHz

VBW 1 MHz

Stop 3.950 GHz
SWP 60 ms

**** Multi Marker ****

Nr.1	2.607500 GHz	44.36 dBµV/m	B
Nr.2	3.038000 GHz	48.53 dBµV/m	A
Nr.3	3.473000 GHz	45.43 dBµV/m	A
Nr.4	3.908000 GHz	52.87 dBµV/m	A
Nr.5			
Nr.6			
Nr.7			
Nr.8			

Tested by:
Rainer Heller

Project-No.:
51935-80535-1

Date:
06/25/1998

Radiated emission 1 GHz - 5 GHz acc. to FCC Part 15 Subpart C

Model:
SHT-7 C

Serial No.:
Sample no. 1

Applicant:
SVS Nachrichtentechnik GmbH

Mode:

- transmitting continuously
- with battery supply 12 V DC

- EUT in vertical position with antenna to the top

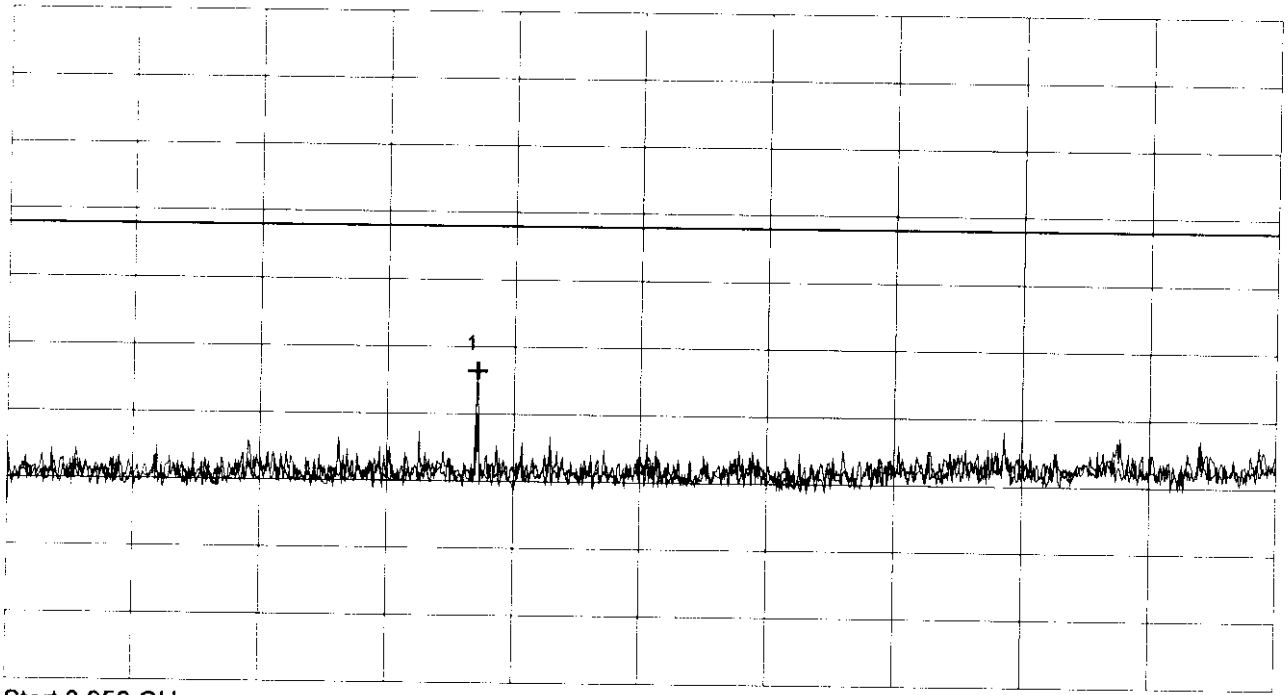
Test distance: 3 meters

Channel A = horizontal polarization
Channel B = vertical polarization

Ref.Level 70 dBµV/m
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 3.950 GHz
RBW 1 MHz

VBW 1 MHz

Stop 5.000 GHz
SWP 100 ms

**** Multi Marker ****

Nr.1	4.339667 GHz	43.24 dBµV/m	A
Nr.2			
Nr.3			
Nr.4			
Nr.5			
Nr.6			
Nr.7			
Nr.8			

Tested by:
Rainer Heller

Project-No.:
51935-80535-1

Date:
06/25/1998

Test results for receiver

SHR-7 K1

Radiated Emission Test 30 MHz - 300 MHz
according to FCC Part 15 Subpart C

Model:
SHR-7 K1

Serial no.:
Sample no. 1

Applicant:
SVS Nachrichtentechnik GmbH

Test site:
Semi anechoic room, cabin no. 3

Tested on:
Test distance 3 meters
Horizontal Polarization

Date of test:
06/22/1998

Operator:
R. Heller

Test performed:
automatically

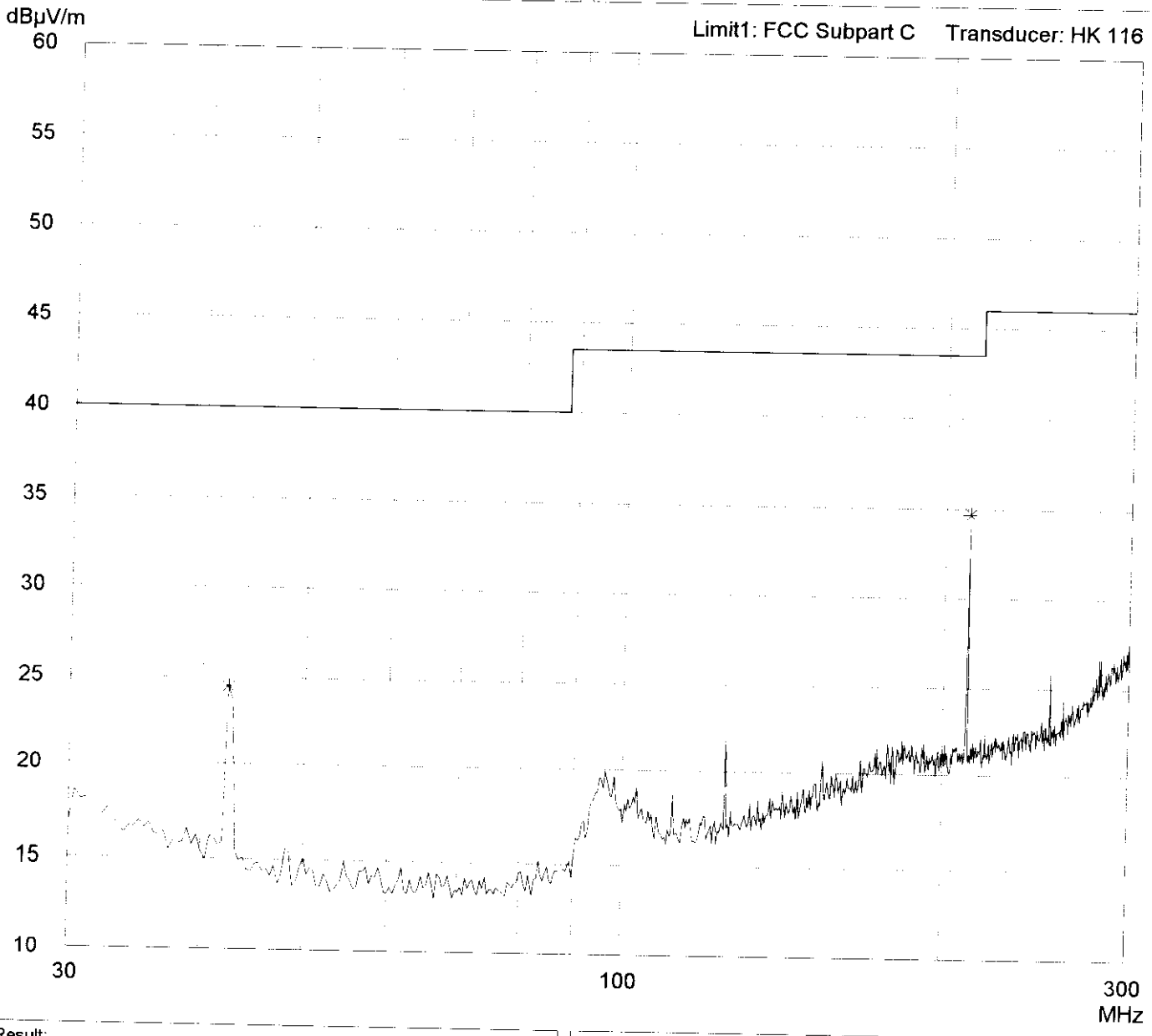
File name:

Mode:
- receiver operating continuously
- timer active (relay switched on)

- with supply voltage 24 V DC

Detector:
Peak

List of values:
Selected by hand



Result:
Prescan

Project file:

Radiated Emission Test 300 MHz - 1 GHz
according to FCC Part 15 Subpart C

Model:
SHR-7 K1

Serial no.:
Sample no. 1

Applicant:
SVS Nachrichtentechnik GmbH

Test site:
Semi anechoic room, cabin no. 3

Tested on:
Test distance 3 meters
Horizontal Polarization

Date of test:
06/22/1998

Operator:
R. Heller

Test performed:
automatically

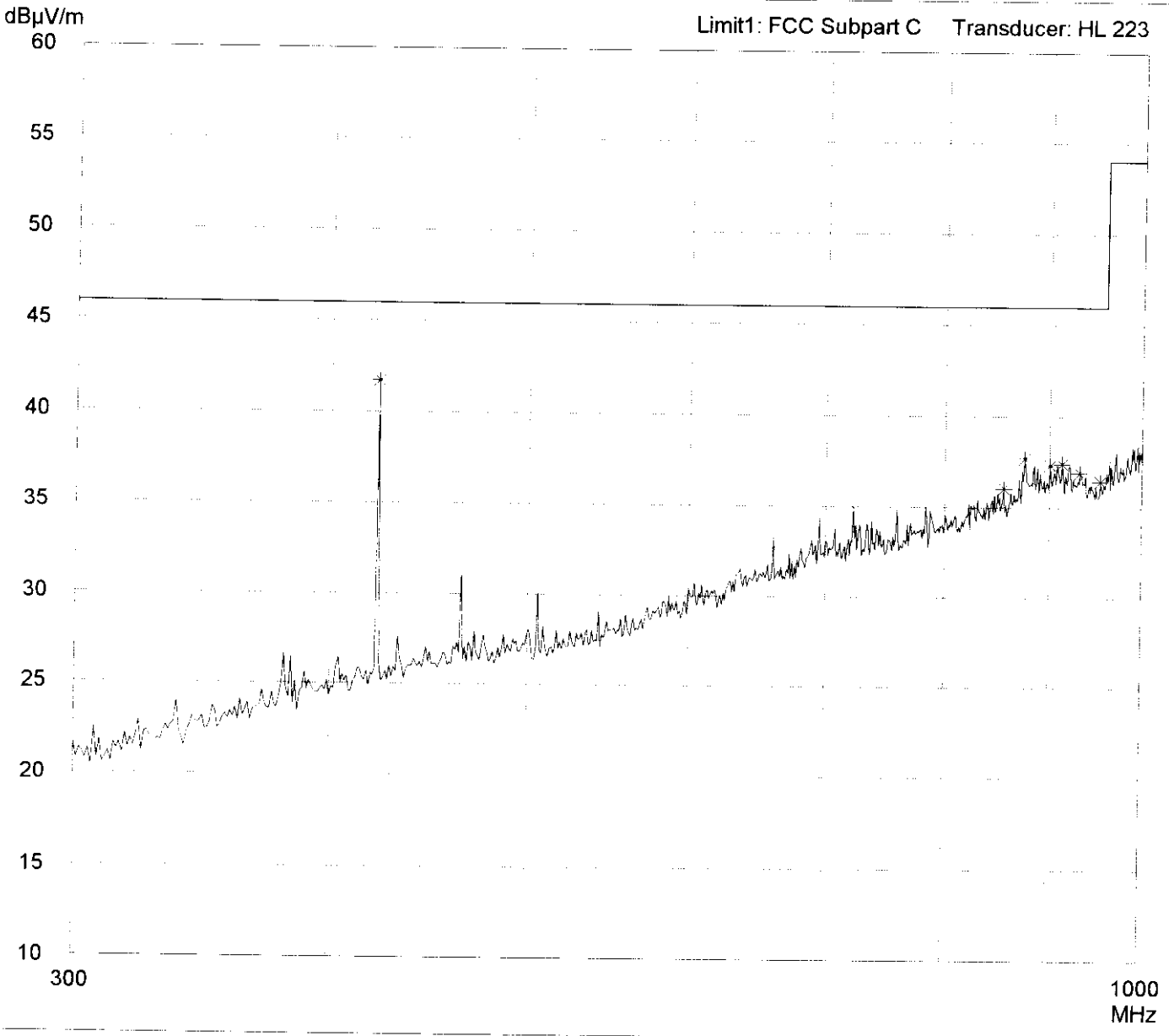
File name:

Mode:
- receiver operating continuously
- timer active (relay switched on)
- with supply voltage 24 V DC

Detector:
Peak

List of values:
10 dB Margin

50 Subranges



Result:
Prescan

Project file:
51935-80535-1

Radiated Emission Test 30 MHz - 300 MHz
according to FCC Part 15 Subpart C

Model:
SHR-7 K1

Serial no.:
Sample no. 1

Applicant:
SVS Nachrichtentechnik GmbH

Test site:
Semi anechoic room, cabin no. 3

Tested on:
Test distance 3 meters
Vertical Polarization

Date of test:
06/22/1998

Operator:
R. Heller

Test performed:
automatically

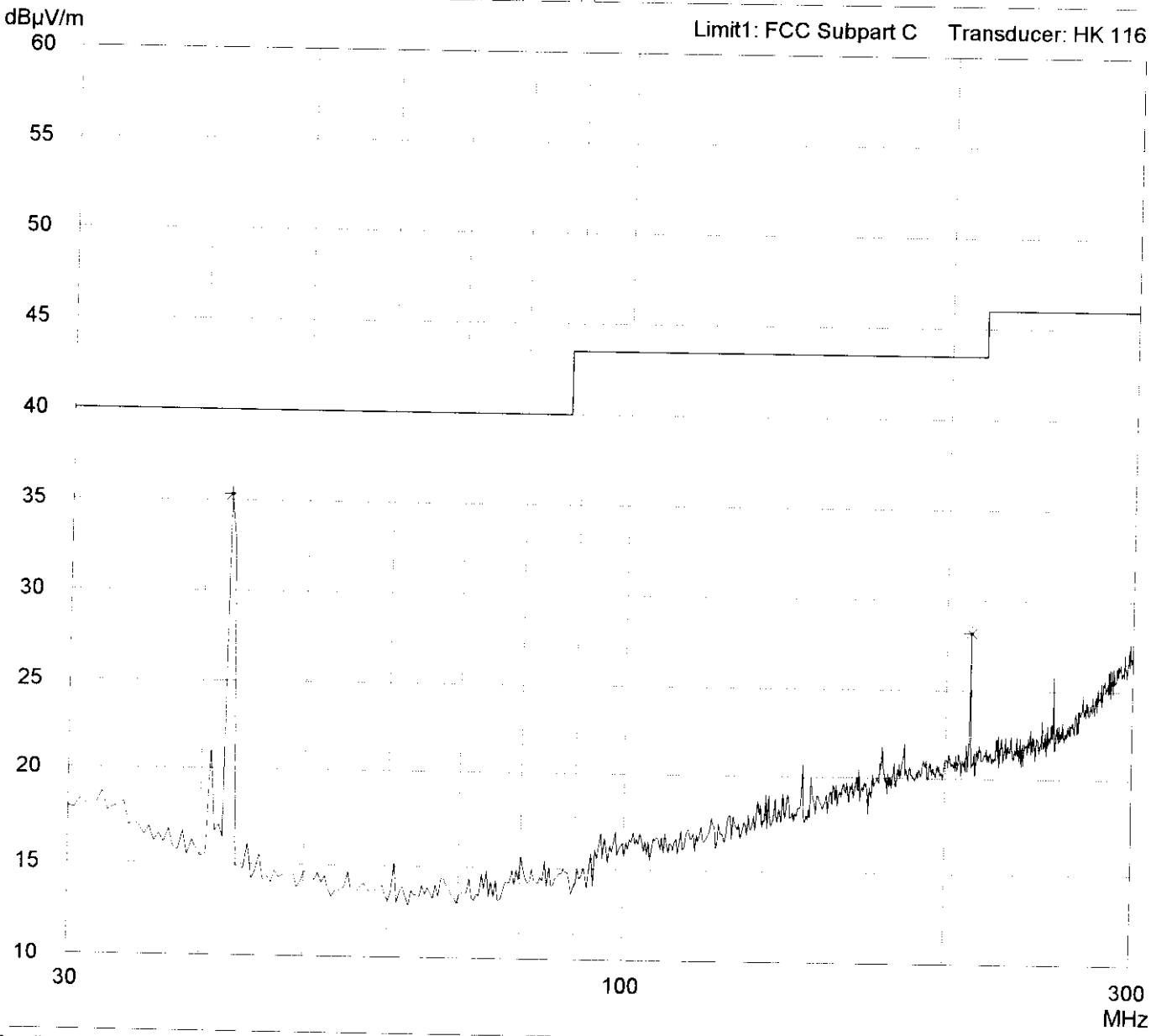
File name:

Mode:
- receiver operating continuously
- timer active (relay switched on)

- with supply voltage 24 V DC

Detector:
Peak

List of values:
Selected by hand



Result:
Prescan

Project file:

Radiated Emission Test 300 MHz - 1 GHz
according to FCC Part 15 Subpart C

Model:
SHR-7 K1

Serial no.:
Sample no. 1

Applicant:
SVS Nachrichtentechnik GmbH

Test site:
Semi anechoic room, cabin no. 3

Tested on:
Test distance 3 meters
Vertical Polarization

Date of test:
06/22/1998

Operator:
R. Heller

Test performed:
automatically

File name:

Mode:
- receiver operating continuously
- timer active (relay switched on)
- with supply voltage 24 V DC

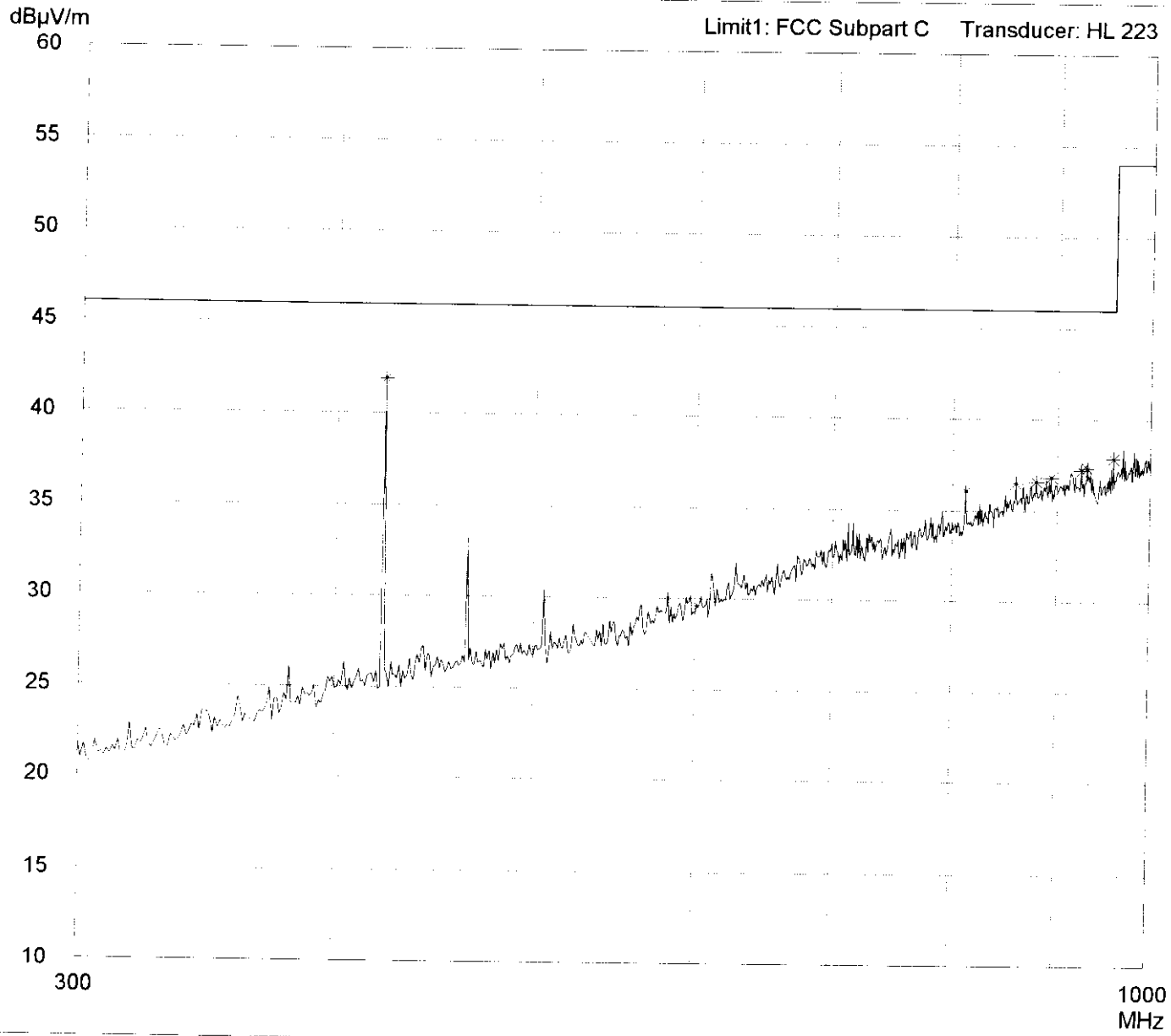
Detector:
Peak

List of values:
10 dB Margin

50 Subranges

Limit1: FCC Subpart C

Transducer: HL 223



Result:

Project file:

Radiated Emission Test 30 MHz - 1 GHz
according to FCC Part 15 Subpart C

Model:
SHR-7 K1

Serial no.:
Sample no. 1

Applicant:
SVS Nachrichtentechnik GmbH

Test site:
Open area test-site I

Tested on:
Test distance 3 meters
Horizontal Polarization

Date of test:
06/22/1998

Operator:
R. Heller

Test performed:
by hand

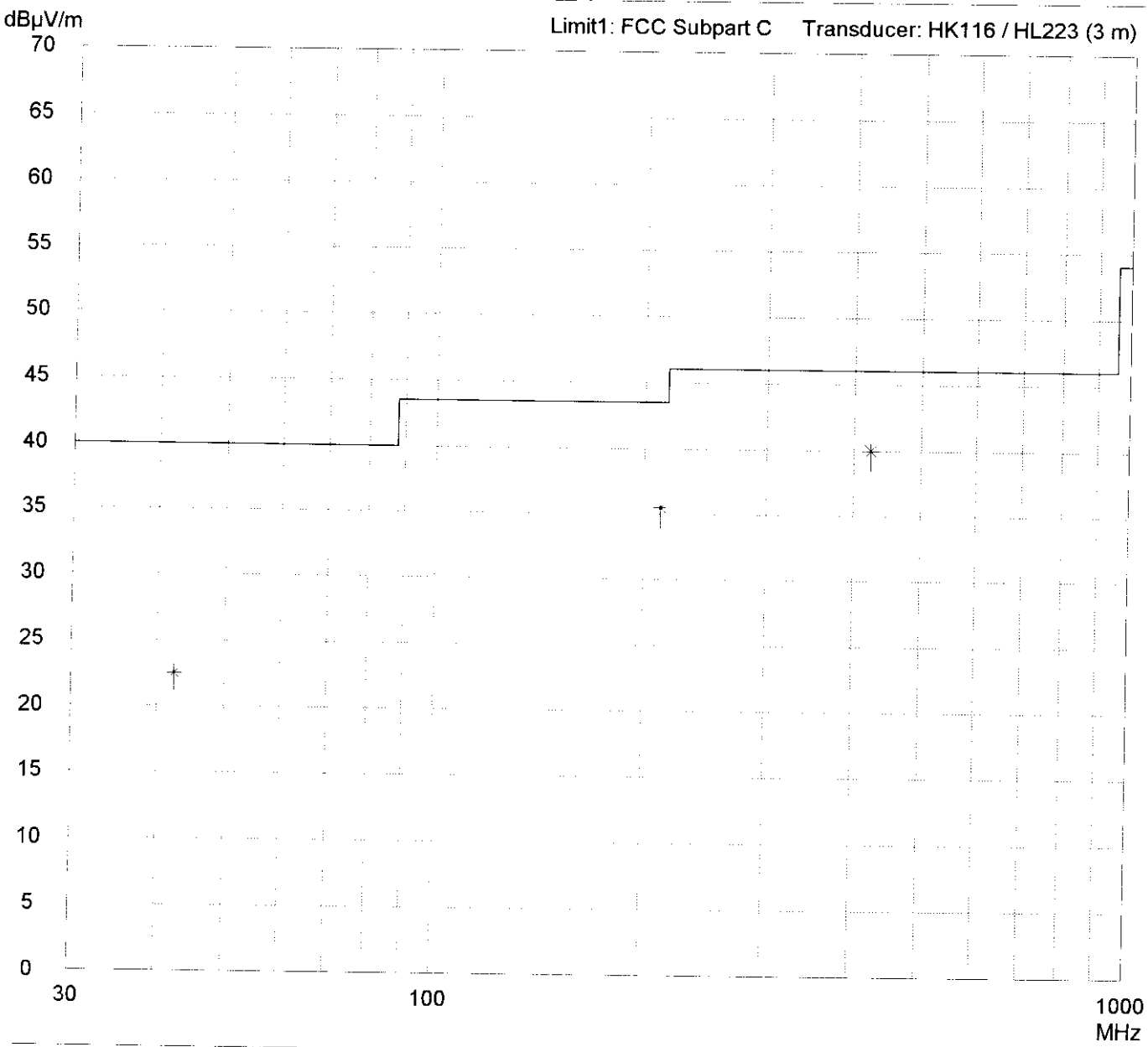
File name:

Mode:
- receiver operating continuously
- timer active (relay switched on)

- with supply voltage 24 V DC

Detector:
Quasi-Peak

List of values:
Selected by hand



Result:

Radiated Emission Test 30 MHz - 1 GHz
according to FCC Part 15 Subpart C

Model:
SHR-7 K1

Serial no.:
Sample no. 1

Applicant:
SVS Nachrichtentechnik GmbH

Test site:
Open area test-site I

Tested on:
Test distance 3 meters
Horizontal Polarization

Date of test:
06/22/1998

Operator:
R. Heller

Test performed:
by hand

File name:

Mode:
- receiver operating continuously
- timer active (relay switched on)

- with supply voltage 24 V DC

Detector:
Quasi-Peak

List of values:
Selected by hand

Frequency MHz	*Reading dBµV*	*Correction factor dB*	*Value dBµV/m*	*Limit dBµV/m*	*Limit exceeded*
42.3	10.5	12.0	22.5	40.0	
211.6	18.0	17.5	35.5	43.5	
423.2	19.0	21.0	40.0	46.0	

Result:

Project file:

Radiated Emission Test 30 MHz - 1 GHz
according to FCC Part 15 Subpart C

Model:
SHR-7 K1

Serial no.:
Sample no. 1

Applicant:
SVS Nachrichtentechnik GmbH

Test site:
Open area test-site I

Tested on:
Test distance 3 meters
Vertical Polarization

Date of test:
06/22/1998

Operator:
R. Heller

Test performed:
by hand

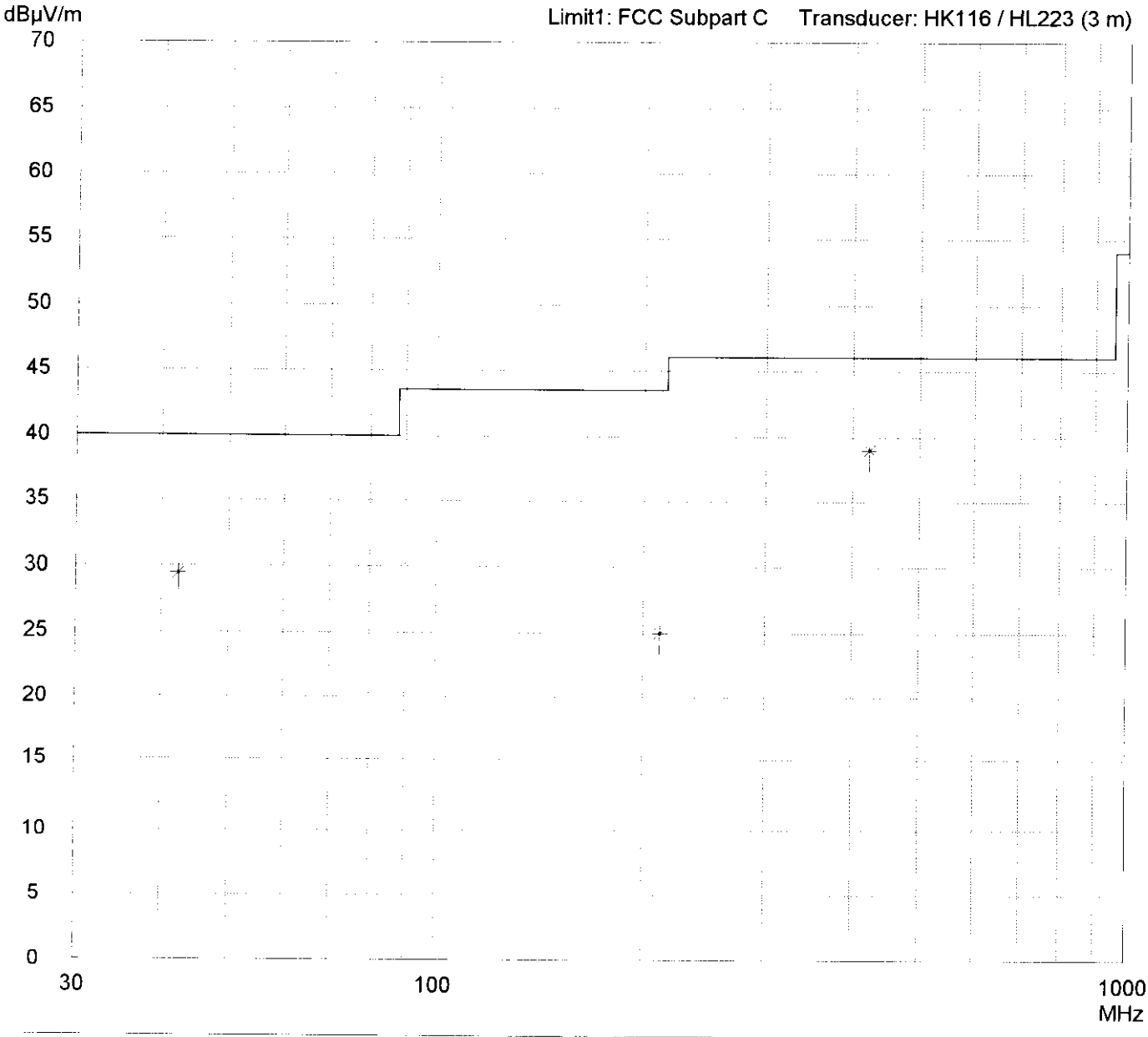
File name:

Mode:
- receiver operating continuously
- timer active (relay switched on)

- with supply voltage 24 V DC

Detector:
Quasi-Peak

List of values:
Selected by hand



Result:
Limit kept

Project file:

Radiated Emission Test 30 MHz - 1 GHz
according to FCC Part 15 Subpart C

Model:
SHR-7 K1

Serial no.:
Sample no. 1

Applicant:
SVS Nachrichtentechnik GmbH

Test site:
Open area test-site I

Tested on:
Test distance 3 meters
Vertical Polarization

Date of test:
06/22/1998

Operator:
R. Heller

Test performed:
by hand

File name:

Mode:
- receiver operating continuously
- timer active (relay switched on)

- with supply voltage 24 V DC

Detector:
Quasi-Peak

List of values:
Selected by hand

Frequency MHz	*Reading dBµV*	*Correction factor dB*	*Value dBµV/m*	*Limit dBµV/m*	*Limit exceeded*
42.3	17.5	12.0	29.5	40.0	
211.6	7.5	17.5	25.0	43.5	
423.2	18.0	21.0	39.0	46.0	

Result:
Limit kept

Project file:

Radiated Emission 1 GHz - 5 GHz
according to FCC Part 15 Subpart C, §15.209

Model:	SHR-7 K1
Type:	Receiver
Serial No.:	Sample no. 1
Applicant:	SVS Nachrichtentechnik GmbH
Test-site:	Semi anechoic room
Test distance:	3 meters
Date of test:	06/25/1998
Operator:	R. Heller

Mode: - receiver operating continuously
- timer active (relay switched on)

- with supply voltage 24 V DC

Detector: Peak

Frequency [GHz]	Polarization	Analyzer-reading [dBµV]	Antenna-correction [dB]	Cable-correction [dB]	Fieldstrength [dBµV/m]	Limit (AV) [dBµV/m]
1.0 - 5.0					*	54.0

Note (*): No levels above noise floor detected.

Result: The limits are kept.

Radiated emission 1 GHz - 5 GHz acc. to FCC Part 15 Subpart C

Model:
SHR-7 K1

Serial No.:
Sample no. 1

Applicant:
SVS Nachrichtentechnik GmbH

Mode:

- receiver operating continuously
- timer active (relay switched on)

- with supply voltage 24 V DC

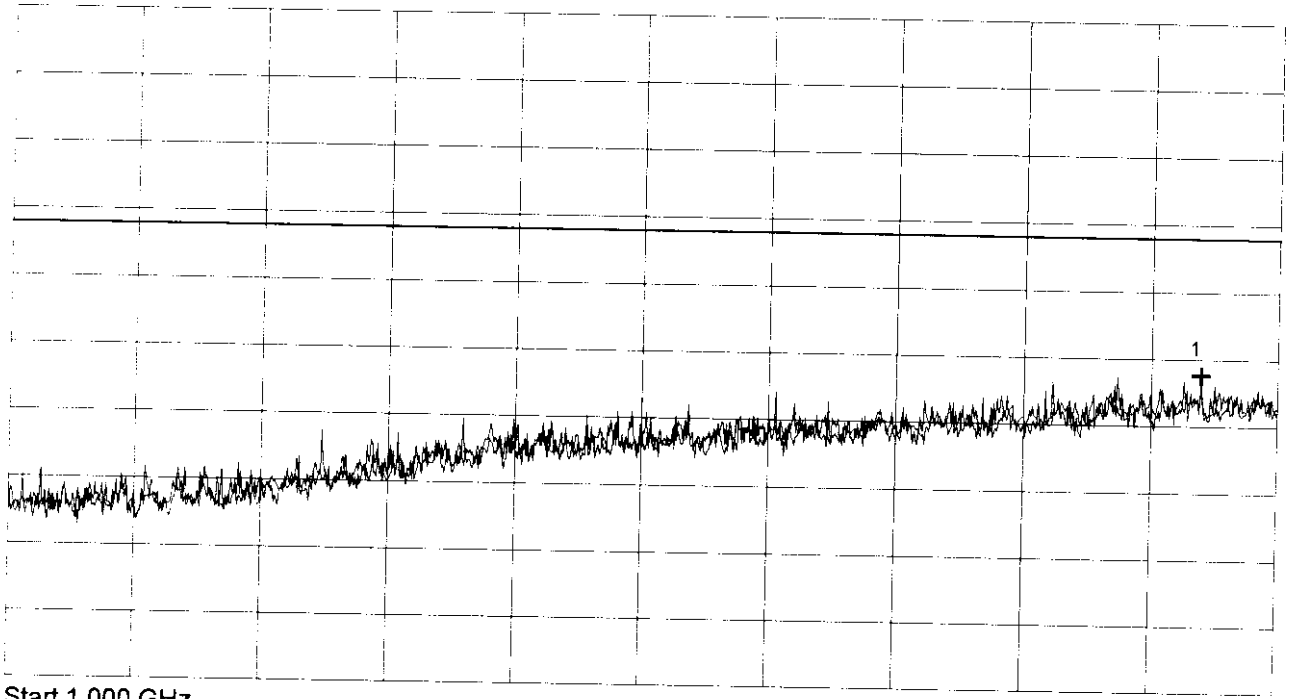
Test distance: 3 meters

Channel A = horizontal polarization
Channel B = vertical polarization

Ref.Level 70 dBµV/m
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 1.000 GHz
RBW 1 MHz

VBW 1 MHz

Stop 3.950 GHz
SWP 20 ms

**** Multi Marker ****

Nr.1	3.769722 GHz	43.83 dBµV/m	A
Nr.2			
Nr.3			
Nr.4			
Nr.5			
Nr.6			
Nr.7			
Nr.8			

Tested by:
Rainer Heller

Date:
06/25/1998

Project-No.:
51935-80535-1

Radiated emission 1 GHz - 5 GHz acc. to FCC Part 15 Subpart C

Model:
SHR-7 K1

Serial No.:
Sample no. 1

Applicant:
SVS Nachrichtentechnik GmbH

Mode:

- receiver operating continuously
- timer active (relay switched on)

- with supply voltage 24 V DC ·

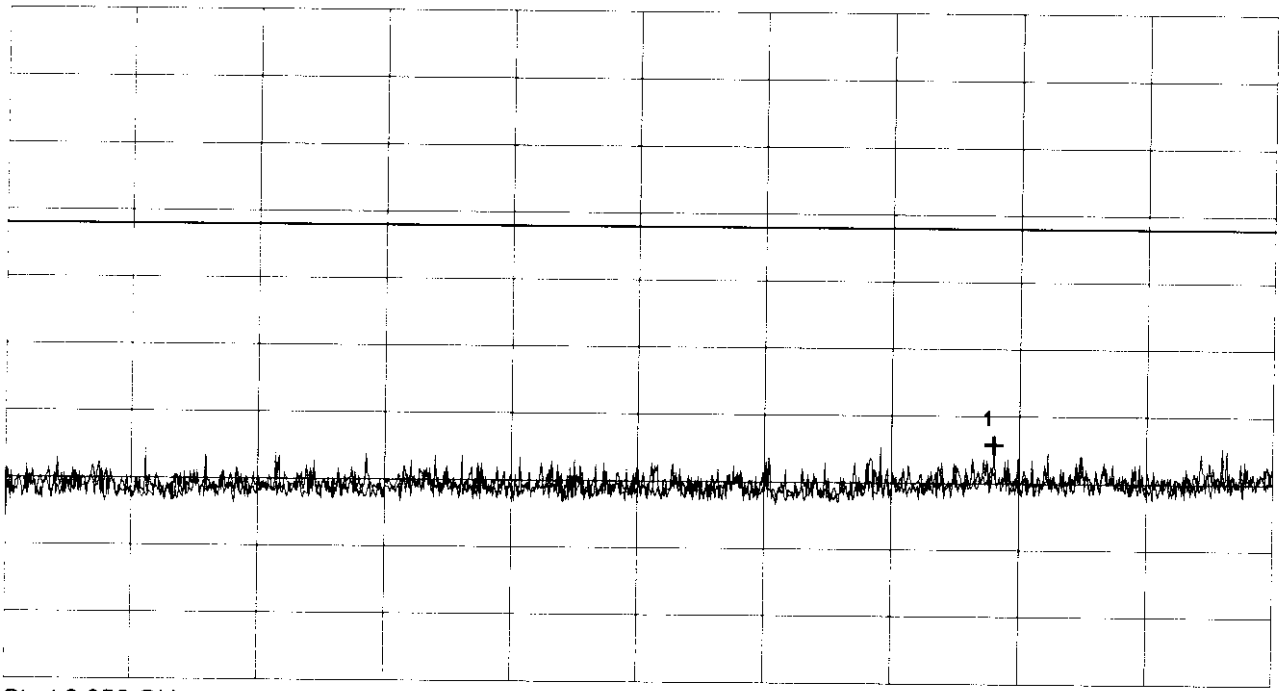
Test distance: 3 meters

Channel A = horizontal polarization
Channel B = vertical polarization

Ref.Level 70 dBµV/m
5 dB dB/Div.

ATT 0 dB

Ref. Offset -30.5 dB



Start 3.950 GHz
RBW 1 MHz

VBW 1 MHz

Stop 5.000 GHz
SWP 20 ms

**** Multi Marker ****

Nr.1	4.769000 GHz	37.84 dBµV/m
Nr.2		
Nr.3		
Nr.4		
Nr.5		
Nr.6		
Nr.7		
Nr.8		

Tested by:
Rainer Heller

Project-No.:
51935-80535-1

Date:
06/25/1998