



Accredited testing-laboratory

DAR registration number: DAT-P-176/94-D1

**Federal Motor Transport Authority (KBA)
DAR registration number: KBA-P 00070-97**

Recognized by the Federal Communications Commission

Anechoic chamber registration no.: 90462 (FCC)

Anechoic chamber registration no.: 3462C-1 (IC)

Certification ID: DE 0001

Accreditation ID: DE 0002

Accredited Bluetooth® Test Facility (BQTF)

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Test report no. : 1-1126-01-14/09_B
Type identification : AC3
Applicant : Sennheiser electronic GmbH & Co. KG
FCC ID : DMOAC3
IC Certification No : 2099A-AC3
Test standards : 47 CFR Part 74

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1 General information

1.1 Notes

The test results of this test report relate exclusively to the test item specified in 3.1.1. The CETECOM ICT Services GmbH does not assume responsibility for any conclusions and generalisations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item. The test report may only be reproduced or published in full. Reproduction or publication of extracts from the report requires the prior written approval of the CETECOM ICT Services GmbH.

Test laboratory manager:

2009-05-25

Date

Meheza K. Walla

Name

A handwritten signature in blue ink, appearing to read 'M. Walla'.

Signature

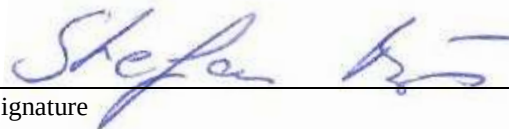
Technical responsibility for area of testing:

2009-05-25

Date

Stefan Bös

Name

A handwritten signature in blue ink, appearing to read 'Stefan Bös'.

Signature

1.2 Testing laboratory

CETECOM ICT Services GmbH

Untertürkheimer Straße 6 - 10

66117 Saarbrücken

Germany

Phone: + 49 681 5 98 - 0

Fax: + 49 681 5 98 - 9075

e-mail: info@ICT.cetecom.de

Internet: <http://www.cetecom-ict.de>

State of accreditation: The test laboratory (area of testing) is accredited according to
DIN EN ISO/IEC 17025
DAR registration number: DAT-P-176/94-D1

Accredited by: Federal Motor Transport Authority (KBA)
DAR registration number: KBA-P 00070-97

Testing location, if different from CETECOM ICT Services GmbH:

Name :
Street :
Town :
Country :
Phone :
Fax :

1.3 Details of applicant

Name:	Sennheiser electronic GmbH & Co. KG
Street:	Am Labor 1
Town:	30900 Wedemark
Country:	Germany
Telephone:	+49 (0) 5130 6 00 -0
Fax:	+49 (0) 5130 600 330
Contact:	Volker Bartsch
E-mail:	bartschv@sennheiser.com
Telephone:	+49 (0) 5130 600 465

1.4 Application details

Date of receipt of order:	2009-02-09
Date of receipt of test item:	2009-02-09
Date of start test:	2009-02-12
Date of end test	2009-05-25
Persons(s) who have been present during the test:	-/-

2 Test standard/s

47 CFR Part 74	2006-10	Title 47 of the Code of Federal Regulations; Chapter I- Federal Communications Commission Experimental radio, auxiliary, special broadcast and other program distribution services
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3 Technical tests

3.1 Details of manufacturer

Name:	Sennheiser electronic GmbH & Co. KG
Street:	Am Labor 1
Town:	30900 Wedemark
Country:	Germany

3.1.1 Test item and Additional EUT information

Kind of test item:	Transmitter (antenna) combiner 4 in 1
Type identification:	AC3
S/N serial number:	-/-
HW hardware status:	-/-
SW software status:	-/-
Frequency Band [MHz]:	470 MHz – 608 MHz & 614 MHz – 698 MHz
Output Power	max. 30 mW
Type of Modulation:	FM
Emission Designator:	F3E
Antenna Type:	BNC Connector
Number of antenna inputs:	4
Power Supply:	115 V AC
Temperature Range:	-30 °C to +50 °C
Occupied Bandwidth (99% BW) [kHz]:	max. 200
Transmitter Spurious (worst case) [dBm]:	-25.81
Receiver Spurious (worst case) [dBμV/m @ 3m]:	-/-
FCC ID:	DMOAC3

3.1.2 Description of the test

In this report we tested only the radiated emissions of the sample.

All tests were done in accordance with the EIA/TIA 603.

The substitution method (TIA/EIA 603) was used.

This products fulfils also the requirements for CANADA RSS-123

3.1.3 Extreme conditions testing values

Description	Shortcut	Unit	Value
Nominal Temperature	T _{nom}	°C	23
Nominal Humidity	H _{nom}	%	50
Nominal Power Source	V _{nom}	V	115

Type of power source: **115 V AC from Power Supply**

Deviations from these values are reported in chapter 2

4 Summary of Measurement Results and list of all performed test cases

- ☒ No deviations from the technical specifications were ascertained
- ☐ There were deviations from the technical specifications ascertained

Section in this Report	Test Name	Verdict
5.1	RF Power Output	pass
5.2 / 5.3 / 5.4	Frequency Stability	Not applicable
5.5	Occupied Bandwidth	pass
5.7	Conducted Spurious Emissions	pass
5.9	Radiated Emissions	pass

5 Measurements and results

5.1 Output Power (conducted)

FCC Rule Part 74.861 (e) (1) (ii)

Method of measurement

The EUT was connected to a resistive coaxial attenuator of normal load impedance, and the un-modulated output power was measured by means of a RF power Meter.

The device ceases to operate as soon as the saturation is reached.

Results:

Carrier input level: 30 mW / 15 dBm

TEST CONDITIONS		CARRIER POWER [mW]					
Frequencies [MHz]		558	607.750	614.250	668	697.750	--
T _{nom} (23) °C	V _{nom} (115)V	28.38	28.58	28.38	28.78	28.75	--
Measurement uncertainty		< ± 2 dB					

LIMIT

FCC Rule Part 74.861

Frequency range MHz	Power level conducted mW
54-72, 76-88, 174-216	50
470-608, 614-806	250

5.2 Occupied Bandwidth FCC Rule Part 74.861(e) (3), (5)/ Sec. 2.1049

Test method:

The audio frequency responds was measured in accordance with EIA/TIA 603.

Data in the plots show that all sidebands between 50 & 100% for the authorized bandwidth are attenuated by at least 25dB. From 100 to 250% of the authorized bandwidth they are attenuated by at least 35dB and beyond 250% 43 log(Po) dB. The plot shows the transmitter modulated with 15000 Hz (the highest modulation frequency), adjusted for 50% modulation plus 16 dB. The spectrum analyzer was set with the un-modulated carrier at the top of the screen. The test procedure diagram and occupied bandwidth plots follow.

TEST CONDITIONS		OCCUPIED BANDWIDTH [kHz]					
Frequency [MHz]		558	607.750	614.250	697.750	--	--
T_{nom} °C	V_{nom} V	83.16	83.16	82.16	82.16	--	--
max. Deviation (FM)		50 kHz					
Measurement uncertainty		±0.5%					

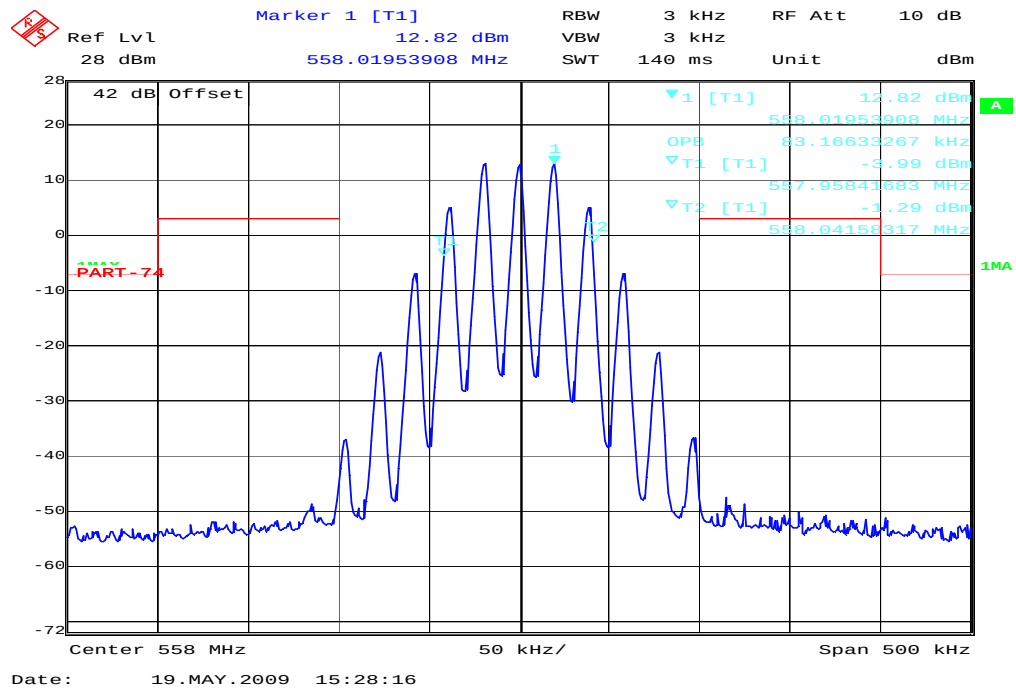
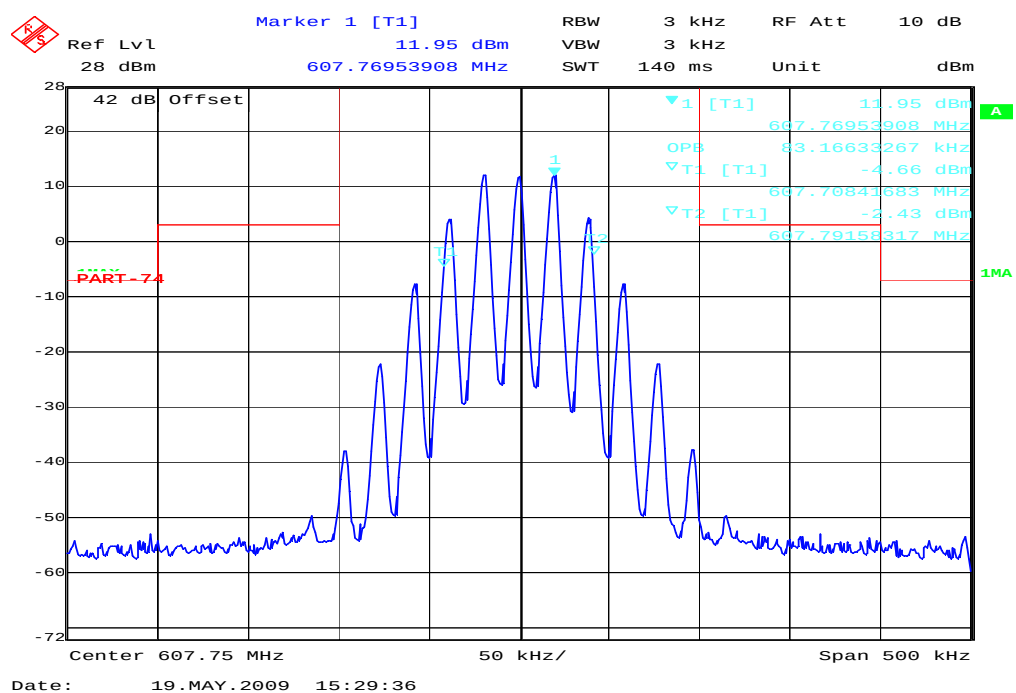
Limits

FCC Rule Part 74.861(e)(5)

The operating bandwidth shall not exceed 200 kHz

OCCUPIED BANDWIDTH

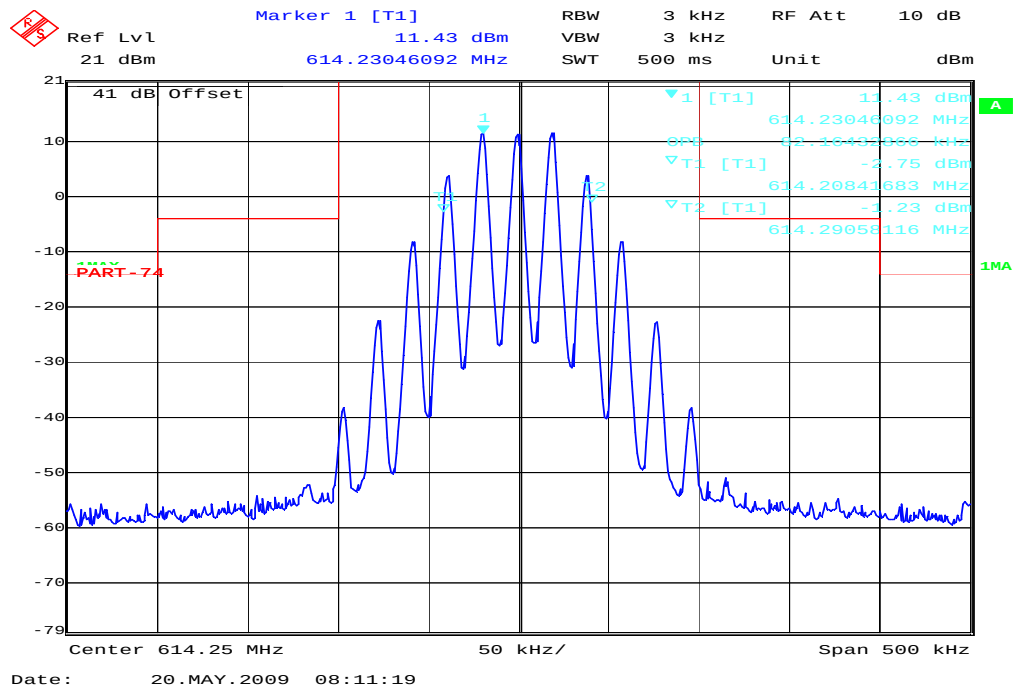
FCC Rule Part 74.861(e)(3), (5)/ Sec. 2.989

Frequency: 558 MHz / max. deviation: ± 50 kHz (Limit ± 75 kHz)Frequency: 607.750 MHz / max. deviation: ± 50 kHz (Limit ± 75 kHz)

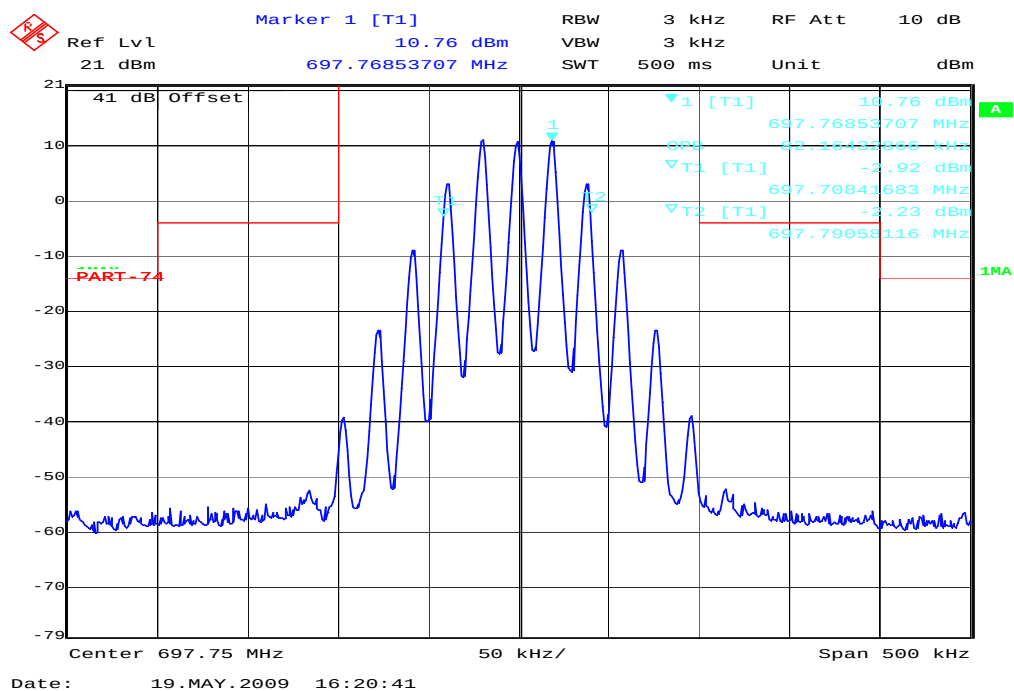
OCCUPIED BANDWIDTH

FCC Rule Part 74.861(e)(3), (5)/ Sec. 2.989

Frequency: 614.25 MHz / max. deviation: ± 50 kHz (Limit ± 75 kHz)

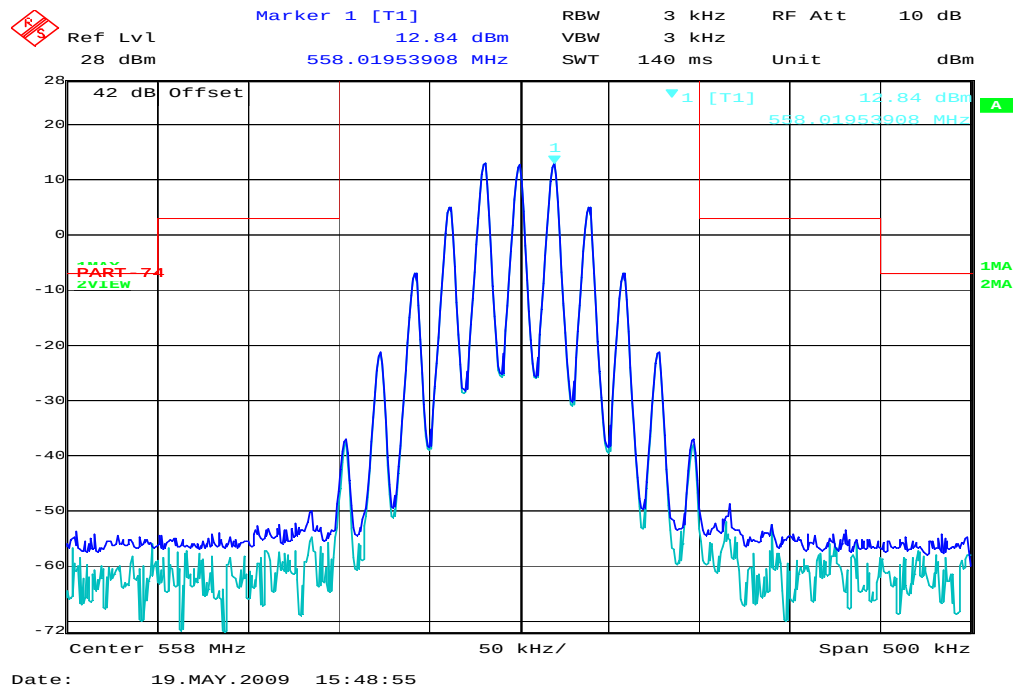


Frequency: 697.75 MHz / max. deviation: ± 50 kHz (Limit ± 75 kHz)

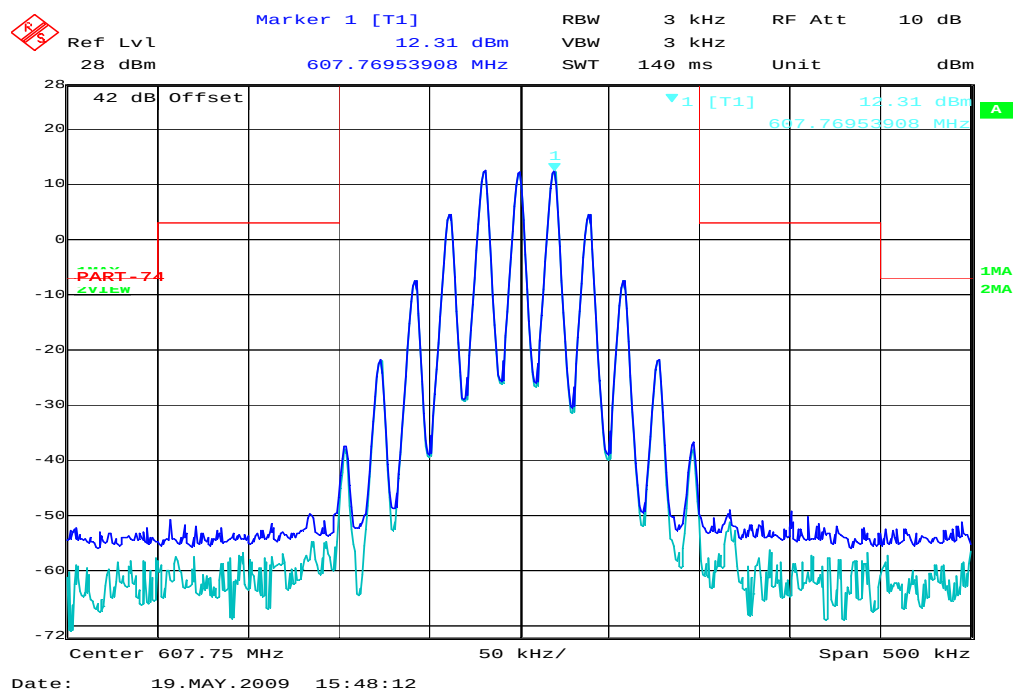


5.3 SIGNAL IN VERSUS SIGNAL OUT

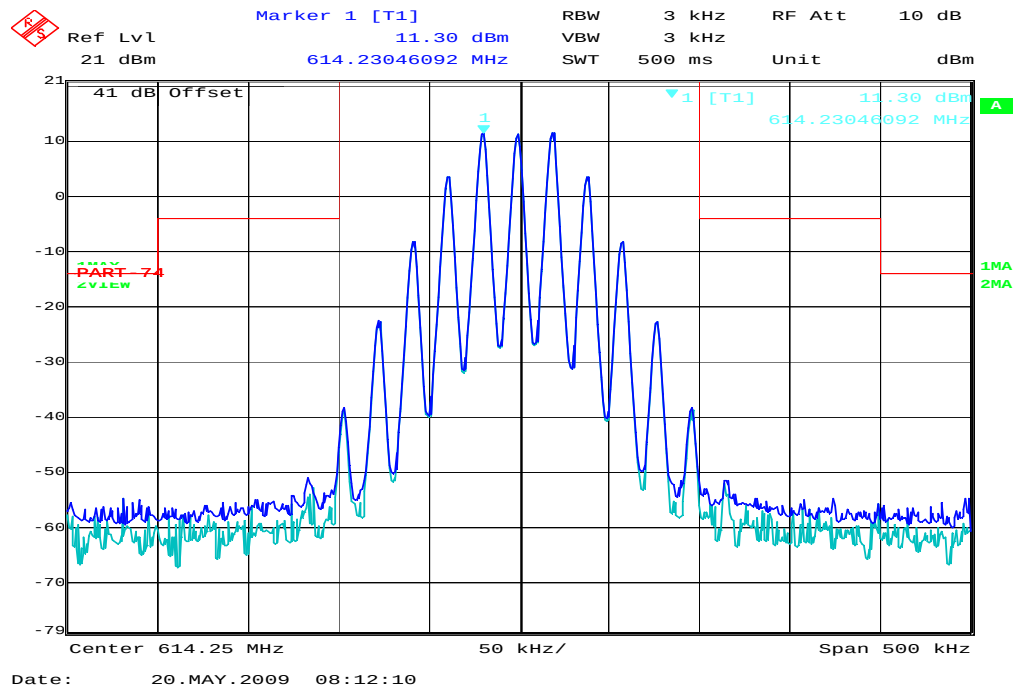
558 MHz:



607.75 MHz:

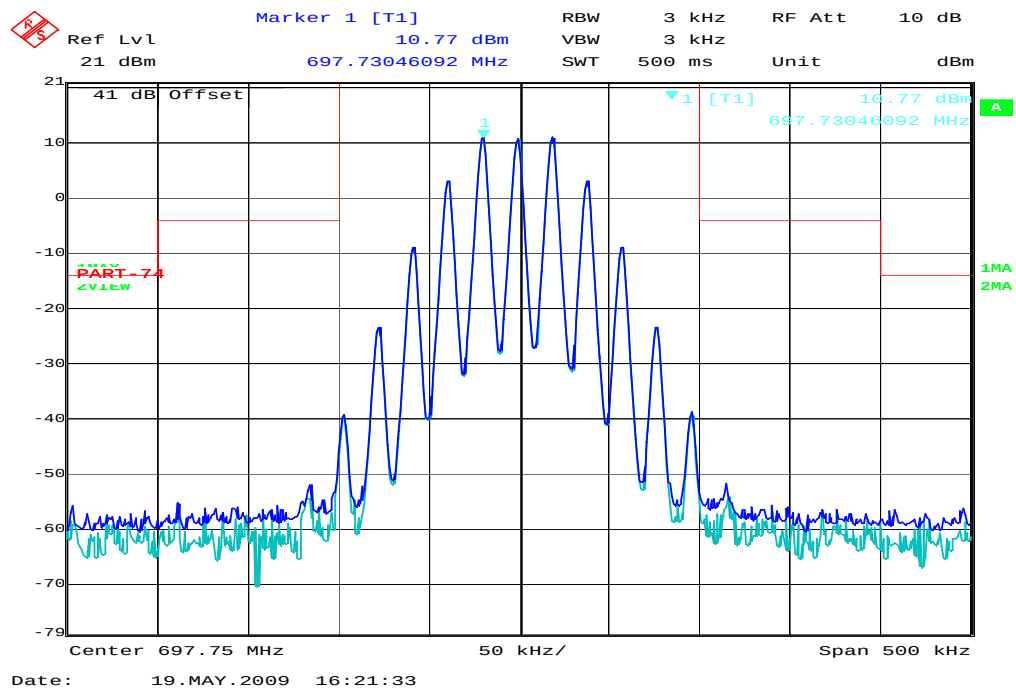


614.250 MHz:



Blue = Input
Green = Output

697.750 MHz:



Blue = Input
Green = Output

5.4 Conducted Emissions

FCC 74 861(e) (6)

To measure the emissions of the EUT four signal generators was used. These signal generators (with the modulation as shown above in Point 5.2) were simultaneously connected to the combiner.

EMISSION LIMITATIONS					
Frequency (MHz)		amplitude of emission (dBm)	limit max. allowed emission power (dBm)	actual attenuation below frequency of operation (dBc)	results
558.00 MHz					
558.00		14	-13.0		carrier
No peaks detected					complies
607.75 MHz					
607.75		14	-13.0		carrier
No peaks detected					complies
614.25 MHz					
614.25		14	-13.0		carrier
No peaks detected					complies
697.75 MHz					
697.75		14	-13.0		carrier
No peaks detected					complies
Measurement uncertainty			± 0.5dB		

Limits

FCC Rule Part 74.861(e)(6)

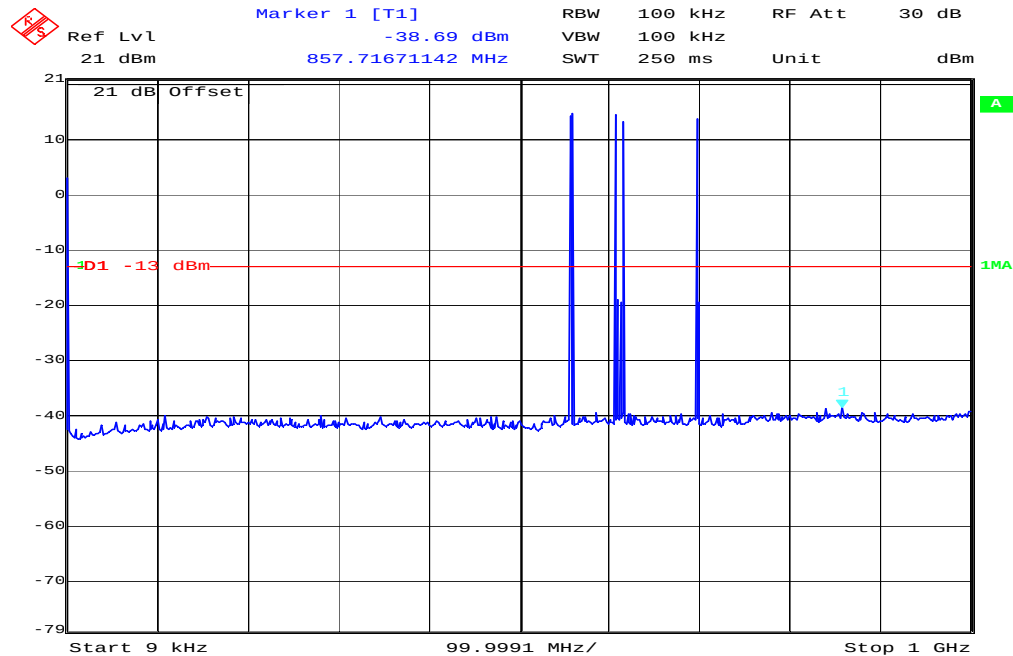
(6) The mean power of emissions shall be attenuated below the mean output power of the transmitter in accordance with the following schedule:

- (i) On any frequency removed from the operating frequency by more than 50 percent up to and including 100 percent of the authorized bandwidth: at least 25 dB;
- (ii) On any frequency removed from the operating frequency by more than 100 percent up to and including 250 percent of the authorized bandwidth: at least 35 dB;
- (iii) On any frequency removed from the operating frequency by more than 250 percent of the authorized bandwidth: at least 43+10log10 (mean output power in watts) dB.

CONDUCTED EMISSIONS

FCC 74 861(e)(6)

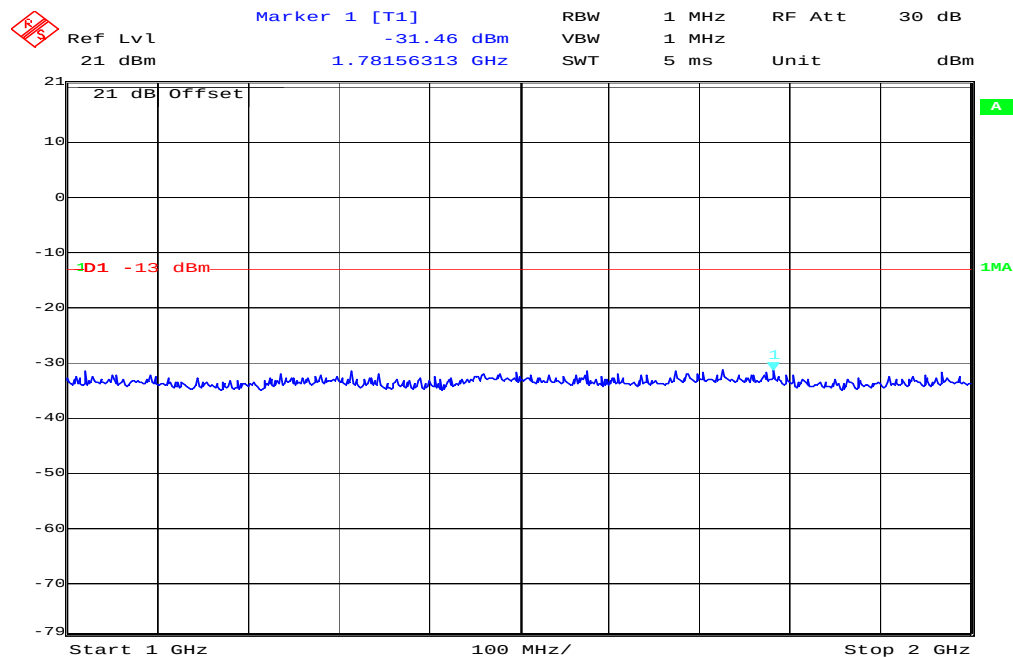
Frequency range 9 KHz – 1 GHz



Date: 26.MAY.2009 13:01:10

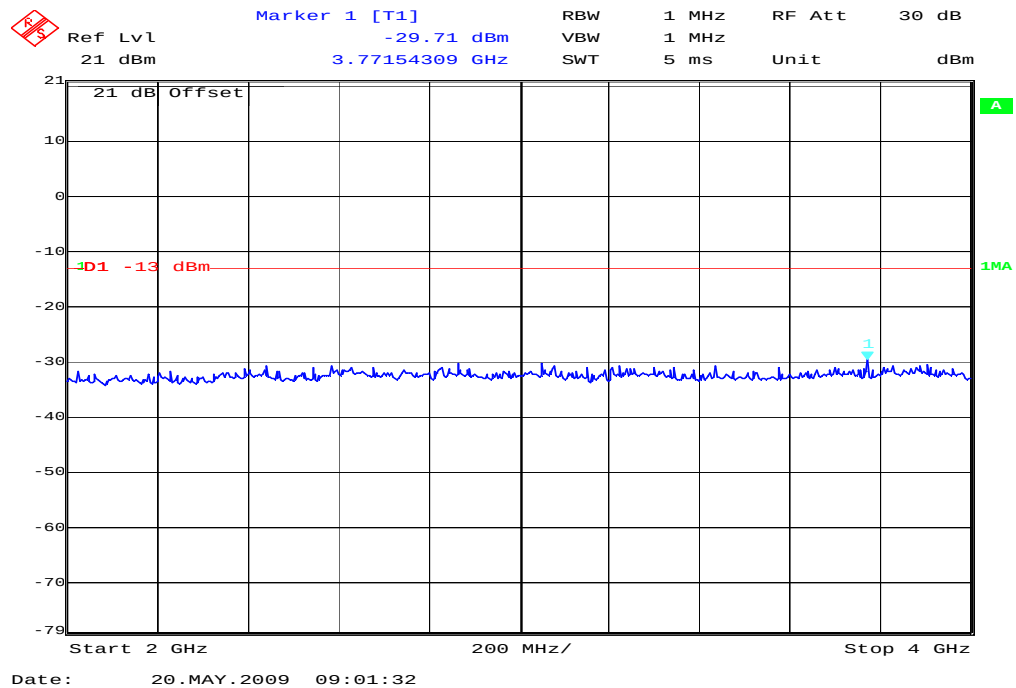
The peak at the beginning of the plot is the LO from the measuring spectrum Analyzer and not from the EUT.

Frequency range 1 GHz – 2 GHz

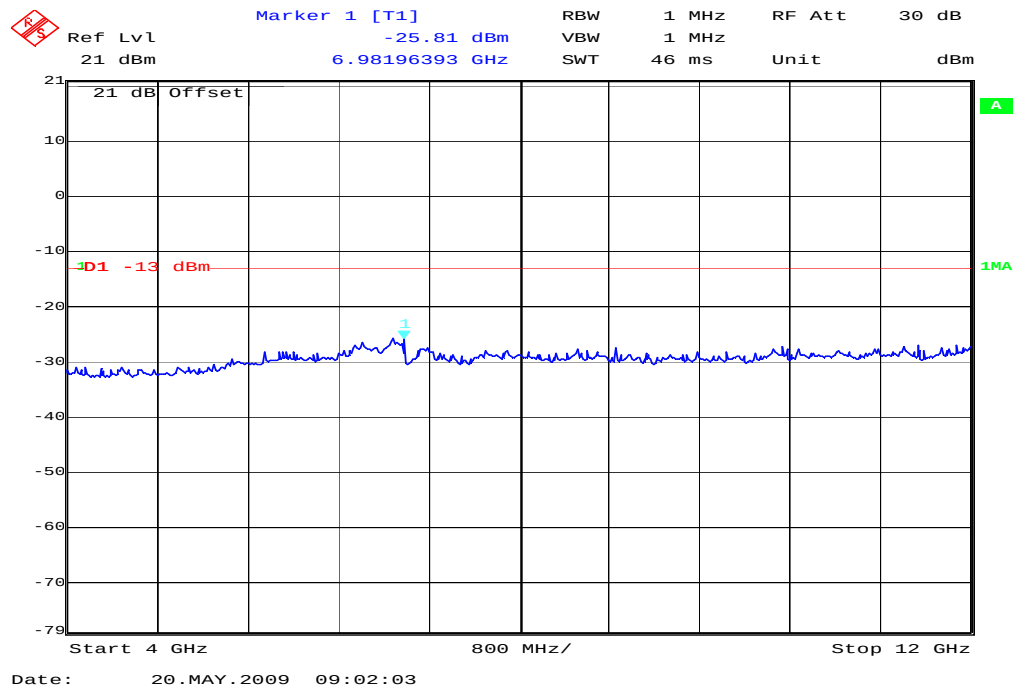


Date: 20.MAY.2009 09:00:51

Frequency range 2 GHz – 4 GHz



Frequency range 4 GHz – 12 GHz

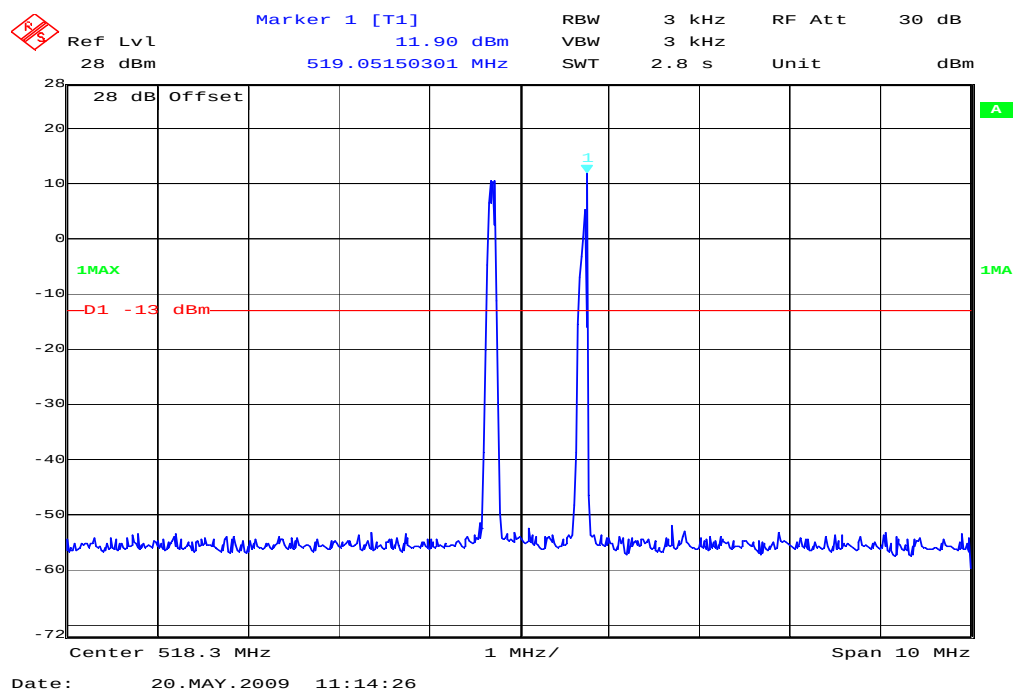


5.5 Intermodulation Tests

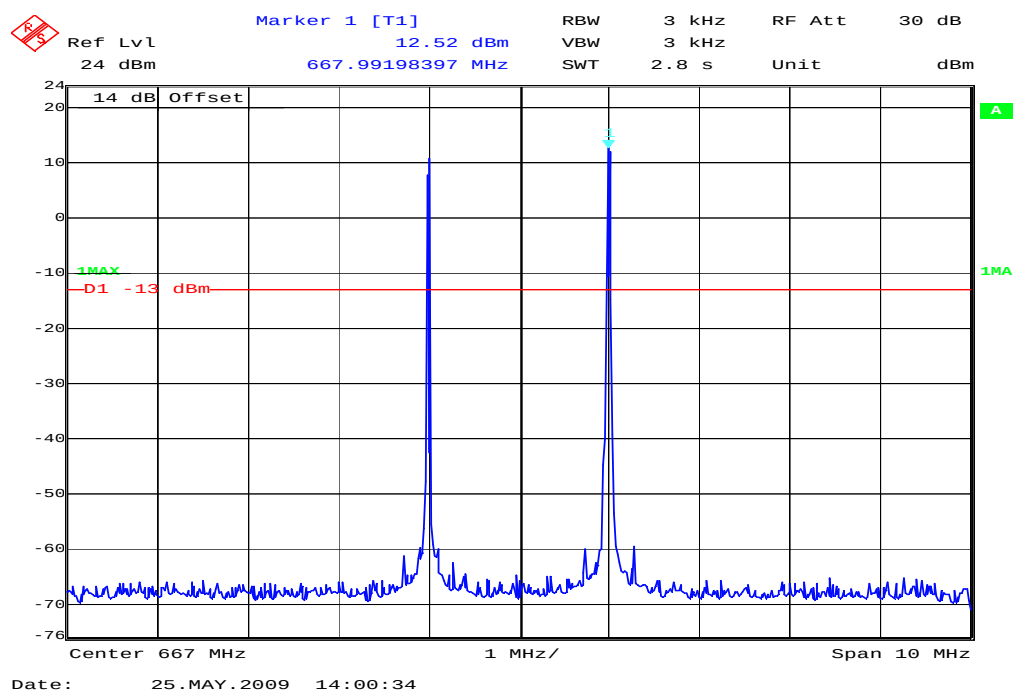
Method of Measurement:

Two RF signals set as inputs. The frequencies of both RF signals shall be within the combiners operating band. The spacing between both RF signals shall be the minimum possible spacing applied in a network. The level of both RF input signals shall be increased, until the maximum rated output power per channel, as declared by the manufacturer, is reached.

Lower Band Edge



Higher Band Edge



5.6 Radiated Emissions FCC Rule Part 74 subpart H

To measure the emissions of the EUT four signal generators was used. These signal generators (with the modulation as shown above in Point 5.2) were simultaneously connected to the combiner.

Test procedure:

- 1). on a test site, the EUT shall be placed on a turntable and in the position closest to the normal use as declared by the user.
- 2). the test antenna shall be oriented initially for vertical polarization located 3m from the EUT to correspond to the frequency of the transmitter.
- 3). the output of the test antenna shall be connected to the measuring receiver and either a peak or quasi-peak detector was used for the measurement as indicated on the report. The detector selection is based on how close the emission level was approaching the limit.
- 4). the transmitter shall be switched on, if possible, without the modulation and the measurement receiver shall be tuned to the frequency of the transmitter under test.
- 5). the test antenna shall be raised and lowered through the specified range of height until a maximum signal level is detected by the measuring receiver.
- 6). the transmitter shall than be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
- 7). the test antenna shall be raised and lowered again through the specified range of height until a maximum signal level is detected by the measuring receiver.
- 8). the maximum signal level detected by the measuring receiver shall be noted.
- 9). the transmitter shall be replaced by a substitution antenna (tuned dipole for f less than 1GHz and horn for frequency higher than 1GHz).
- 10). the substitution antenna shall be oriented for vertical polarization and the length (if a dipole antenna is used) of the substitution antenna shall be adjusted to correspond to the frequency of the transmitter.
- 11). the substitution antenna shall be connected to a calibrated signal generator.
- 12). If necessary, the input attenuator setting of the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
- 13). the test antenna shall be raised and lowered through the specified range of the height to ensure that the maximum signal is received.
- 14). the input signal to the substitution antenna shall be adjusted to the level that produces a level detected by the measuring receiver, that is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuation setting of the measuring receiver.
- 15). the input level to the substitution antenna shall be recorded as power level in dBm, corrected for any change of input attenuator setting of the measuring receiver.
- 16). the measurement shall be repeated with the test antenna and the substitution antenna oriented for horizontal polarization.
- 17). the measure of the effective radiated power is the larger of the two levels recorded, at the input to the substitution antenna, corrected for the gain of the substitution antenna if necessary.
- 18). Repeat above substitution measurement procedure for fundamental and all harmonica emissions.

SPURIOUS EMISSION LEVEL [dBm]								
558.00 MHz			607.75 MHz			614.25 MHz		
F	BW	p	F	BW	p	F	BW	p
All other peaks > 20 dB below limit			All other peaks > 20 dB below limit			All other peaks > 20 dB below limit		
Measurement uncertainty : $\pm 3\text{dB}$								

$f < 1\text{ GHz}$: RBW/VBW: 100 kHz

$f \geq 1\text{ GHz}$: RBW/VBW: 1 MHz

SPURIOUS EMISSION LEVEL [dBm]								
697.75 MHz			--			--		
F	BW	p	F	BW	p	F	BW	p
All other peaks > 20 dB below limit								
Measurement uncertainty : $\pm 3\text{dB}$								

$f < 1\text{ GHz}$: RBW/VBW: 100 kHz

$f \geq 1\text{ GHz}$: RBW/VBW: 1 MHz

Where

F	=	Frequency of spurious [MHz]
BW	=	Measurement receiver bandwidth [kHz]
p	=	Level of spurious [dBm]

Limits

FCC Rule Part 74.861(e)(6)

$f \pm 100\text{ kHz to } f \pm 200\text{ kHz}$	$f \pm 200\text{ kHz to } f \pm 500\text{ kHz}$	$f \pm 500\text{ kHz}$
25 dBc	35 dBc	-43 +10 log ₁₀ (mean output power in watts) dB below the mean output power (-13 dBm)

5.6.1 Plots of the measurements

RADIATED EMISSIONS

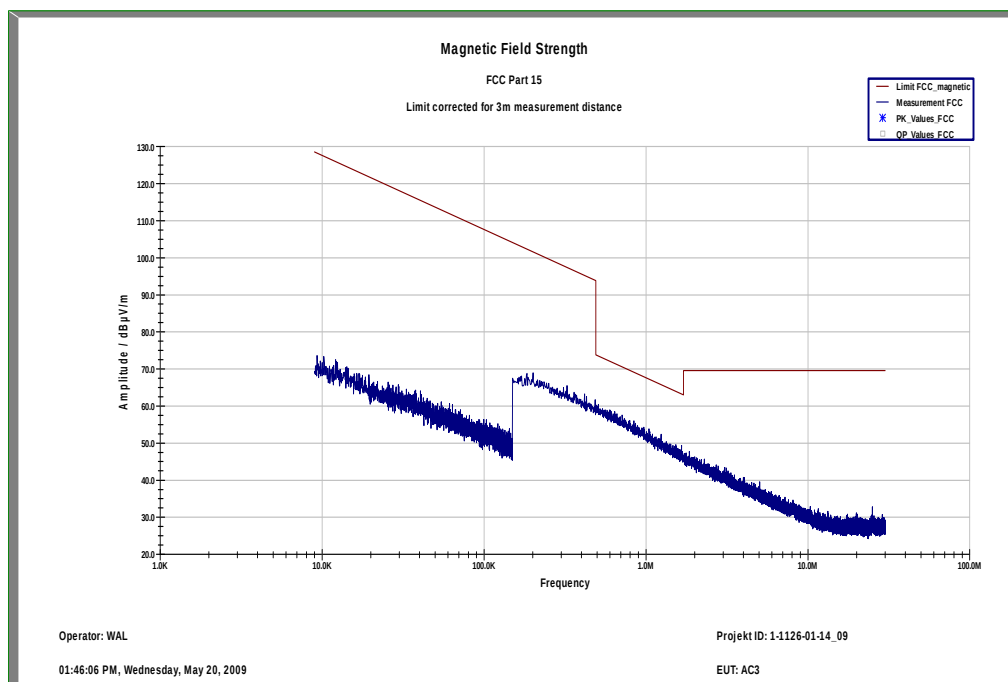
FCC Rule Part 74 subpart H

(This plot is valid for all channels)

Part 15.209 Magnetics

Antenna Combiner measured with 4 Inputs signals (Signal generator).

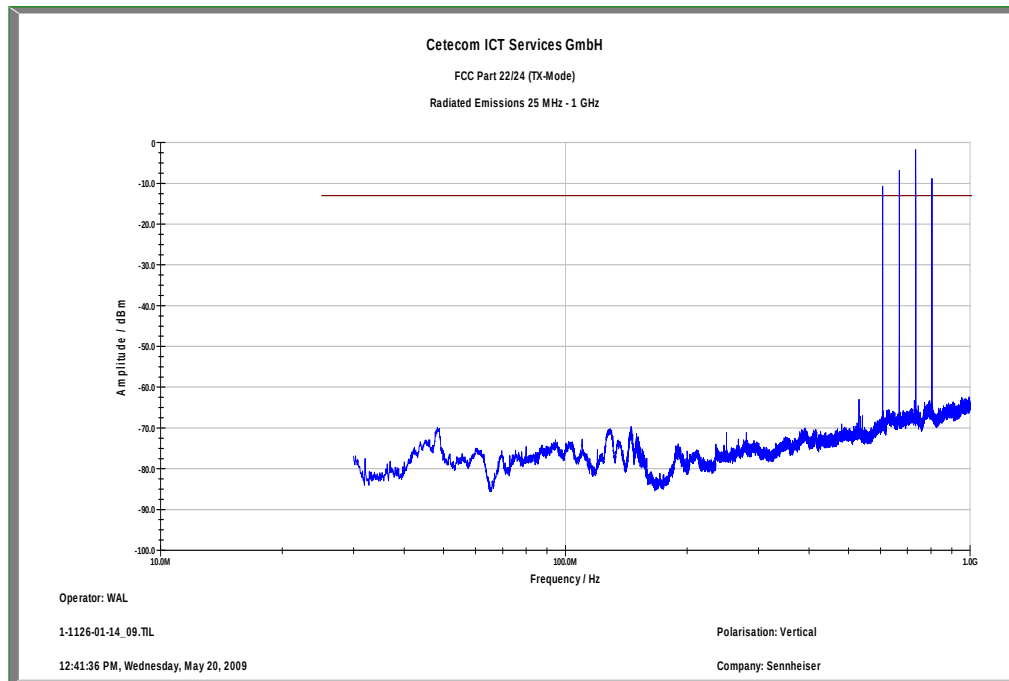
EUT: AC3
 Manufacturer: Sennheiser electronic GmbH & Co. KG
 Operating Condition: Antenna combiner AC3 with 4 Carrier (Signal generator)
 Operator: Walla



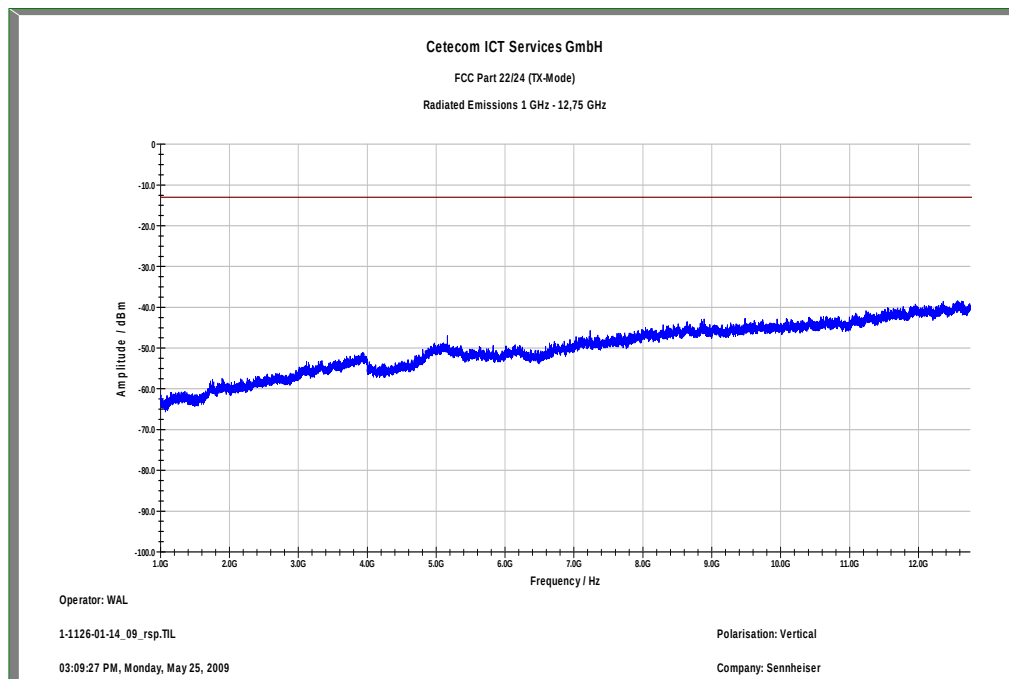
RADIATED EMISSIONS (25 MHz to 12 GHz)

FCC Rule Part 74 subpart H

Plot 1: 0.25 – 1 GHz



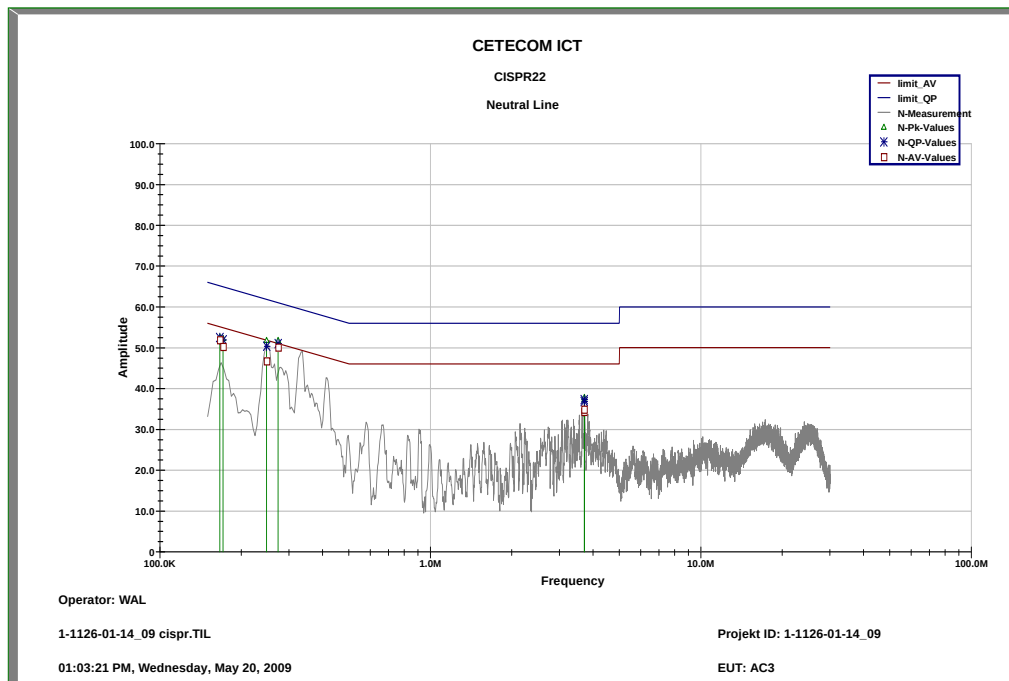
Plot 2: 1 – 12 GHz



CONDUCTED EMISSIONS

§ 15.107/207

Plot 1: Neutral Line

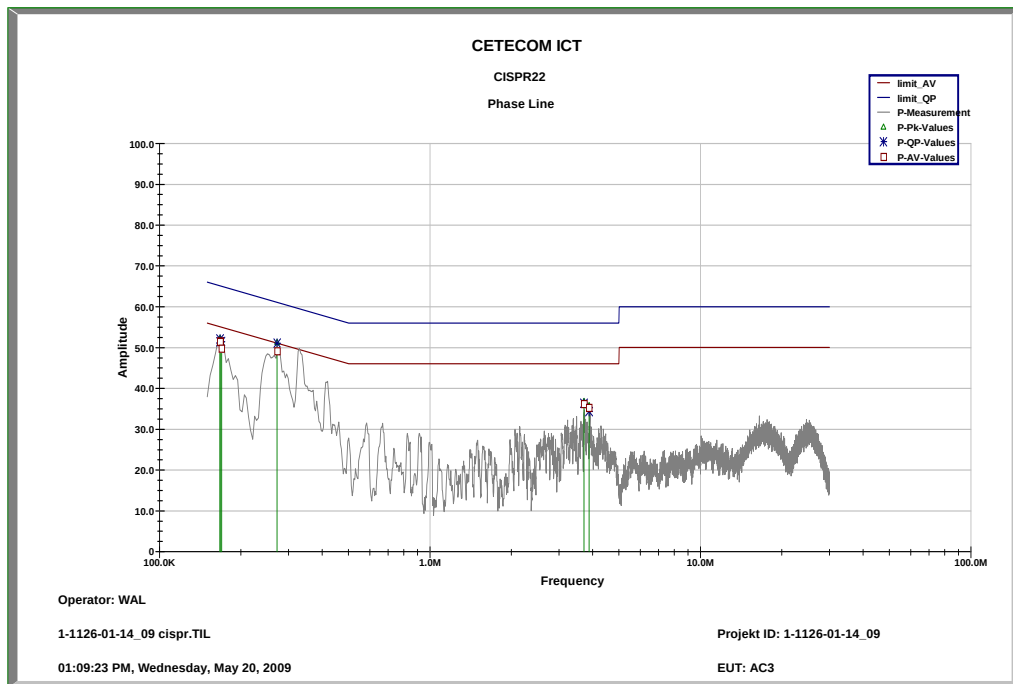


Frequency	Margin AV	Margin QP	Average	Quasi Peak	Peak (remeasurement)
MHz	dB μ V	dB μ V	dB μ V	dB μ V	dB μ V
0.1665	-3.584	-13.043	51.944	52.484	52.625
0.1712	-5.071	-13.447	50.322	51.946	52.278
0.2482	-6.387	-12.819	46.808	50.376	51.818
0.2739	-2.305	-11.442	50.155	51.018	51.794
3.7080	-11.586	-19.176	34.414	36.824	37.210

Limits :

Under normal test conditions only	See plots
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Plot 2: Phase Line



Frequency	Margin AV	Margin QP	Average	Quasi Peak	Peak (remeasurement)
MHz	dBμV	dBμV	dBμV	dBμV	dBμV
0.1674	-3.904	-13.359	51.599	52.144	52.268
0.1695	-5.591	-13.968	49.856	51.473	51.717
0.2724	-3.267	-11.445	49.236	51.058	51.273
3.7090	-9.725	-19.619	36.275	36.381	36.826
3.8740	-10.639	-21.673	35.361	34.327	35.781

Limits :

Under normal test conditions only	See plots
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6 Test equipment and ancillaries used for tests

To simplify the identification on each page of the test equipment used, on each page of the test report, each item of test equipment and ancillaries such as cables are identified (numbered) by the Test Laboratory, below.

All reported calibration intervals are calibrations according to the EN/ISO/IEC 17025 standard. These calibrations were performed from an accredited external calibration laboratory.

Additional to these calibrations the laboratory performed comparison measurements with other calibrated systems and performed a weekly chamber inspection.

All used devices are connected with a 10 MHz external reference.

According to the manufacturers' instruction is it possible to establish a calibration interval for the FSP unit of 24 month, if the device has an external 10 MHz reference.

Anechoic chamber C:

No	Equipment/Type	Manuf.	Serial Nr.	Inv. No. Cetecom	Last Calibration	Frequency (months)	Next Calibration
1	Anechoic chamber	MWB	87400/02	300000996	Monthly verification		
2	System-Rack 85900	HP I.V.	*	300000222	n.a.		
3	Measurement System 1						
4	PSA-Spektrumanalysator 3 Hz - 26,5 GHz (E4440A)	Agilent	MY48250080	300003812	05.08.2008	24	05.08.2010
5	EMI Preselector 9kHz - 1 GHz (N9039A)	Agilent	MY48260003	300003825	19.08.2008	24	19.08.2010
6	Microwave Analog Signal Generator (N5183A)	Agilent	MY47420220	300003813	06.08.2008	24	06.08.2010
7	PC	F+W			n.a.		
8	TILE	TILE			n.a.		
9	TRILOG Super Breitband Antenne (VULB9163)	Schwarzbeck	371	300003854	Monthly verification (System cal.)		
10	Double Ridged Antenna 3115	EMCO	3088	300001032	Monthly verification (System cal.)		
11	Active Loop Antenna 6502	EMCO	2210	300001015	Monthly verification (System cal.)		
12	Switch / Control Unit 3488A	HP	2719A15013	300001156	n.a.		
13	Power Supply 6032A	HP	2818A03450	300001040	08.01.2009	36	08.01.2012
14	Busisolator	Kontron		300001056	n.a.		
15	Leitungsteiler 11850C	HP		300000997	Monthly verification (System cal.)		
16	Power attenuator 8325	Byrd	1530	300001595	Monthly verification (System cal.)		
17	Band reject filter WRCG1855/1910	Wainwright	7	300003350	Monthly verification (System cal.)		
18	Band reject filter WRCG2400/2483	Wainwright	11	300003351	Monthly verification (System cal.)		
19	Hochpassfilter WHK1.1/15G-10SS	Wainwright	3	300003255	Monthly verification (System cal.)		
20	Hochpassfilter WHKX2.9/18G-12SS	Wainwright	1	300003492	Monthly verification (System cal.)		
21	Hochpassfilter WHKX7.0/18G-8SS	Wainwright	18	300003789	Monthly verification (System cal.)		
22	Switch / Control Unit 3488A	HP	2605e08770	300001443	n.a.		
23	Trenntrafo RT5A	Grundig	9242	300001263	n.a.		
24	Relais Matrix PSU	R&S	890167/024	300001168	n.a.		
25	Netznachbildung ESH3-Z5	R&S	828576/020	300001210	n.a.		

SRD Laboratory Room 002:

No	Equipment/Type	Manuf.	Serial Nr.	Inv. No. Cetecom	Last Calibration	Frequency (months)	Next Calibration
1	System Controller PSM 12	R&S	835259/007	3000002681-00xx	n.a.		
2	Memory Extension PSM-K10	R&S	To 1	3000002681	n.a.		
3	Operating Software PSM-B2	R&S	To 1	3000002681	n.a.		
4	19" Monitor		22759020-ED	3000002681	n.a.		
5	Mouse		LZE 0095/6639	3000002681	n.a.		
6	Keyboard		G00013834L461	3000002681	n.a.		
7	Spectrum Analyser FSIQ 26	R&S	835540/018	3000002681-0005	10.01.2008	24	10.01.2010
8	Tracking Generator FSIQ-B10	R&S	835107/015	3000002681	s.No.7		
10	RF-Generator SMIQ03 (B1 Signal)	R&S	835541/056	3000002681-0002	26.08.2008	36	26.08.2011
11	Modulation Coder SMIQ-B20	R&S	To 10	3000002681	s.No.10		
12	Data Generator SMIQ-B11	R&S	To 10	3000002681	s.No.10		
13	RF Rear Connection SMIQ-B19	R&S	To 10	3000002681	s.No.10		
14	Fast CPU SM-B50	R&S	To 10	3000002681	s.No.10		
15	FM Modulator SM-B5	R&S	835676/033	3000002681	s.No.10		
16	RF-Generator SMIQ03 (B2 Signal)	R&S	835541/055	3000002681-0001	25.08.2008	36	25.08.2011
17	Modulation Coder SMIQ-B20	R&S	To 16	3000002681	s.No.16		
18	Data Generator SMIQ-B11	R&S	To 16	3000002681	s.No.16		
19	RF Rear Connection SMIQ-B19	R&S	To 16	3000002681	s.No.16		
20	Fast CPU SM-B50	R&S	To 16	3000002681	s.No.16		
21	FM Modulator SM-B5	R&S	836061/022	3000002681	s.No.16		
22	RF-Generator SMP03 (B3 Signal)	R&S	835133/011	3000002681-0003	26.08.2008	36	26.08.2011
23	Attenuator SMP-B15	R&S	835136/014	3000002681	S.No.22		
24	RF Rear Connection SMP-B19	R&S	834745/007	3000002681	S.No.22		
25	Power Meter NRVD	R&S	835430/044	3000002681-0004	26.08.2008	24	26.08.2010
26	Power Sensor NRVD-Z1	R&S	833894/012	3000002681-0013	26.08.2008	24	26.08.2010
27	Power Sensor NRVD-Z1	R&S	833894/011	3000002681-0010	26.08.2008	24	26.08.2010
28	Rubidium Standard RUB	R&S		3000002681-0009	27.08.2008	24	27.08.2010
29	Switching and Signal Conditioning Unit SSCU	R&S	338864/003	3000002681-0006	01.08.2008	24	01.08.2010
30	Laser Printer HP Deskjet 2100	HP	N/A	3000002681-0011	n.a.		
31	19" Rack	R&S	11138363000004	3000002681	n.a.		
32	RF-cable set	R&S	N/A	3000002681	n.a.		
33	IEEE-cables	R&S	N/A	3000002681	n.a.		
34	Sampling System FSIQ-B70	R&S	835355/009	3000002681	s.No.7		
35	RSP programmable attenuator	R&S	834500/010	3000002681-0007	26.08.2008	24	26.08.2010
36	Signalling Unit	R&S	838312/011	3000002681	n.a.		
37	NGPE programmable Power Supply for EUT	R&S	192.033.41	3000002681			
39	Power Splitter 6005-3	Inmet Corp.	none	300002841	23.12.2008	24	23.12.2010
40	SMA Cables SPS-1151-985-SPS	Insulated Wire	different	different	n.a.		
41	CBT32 with EDR Signaling Unit	R&S					
42	Coupling unit	Narda	N/A	--	n.a.		
43	2xSwitch Matrix PSU	R&S	872584/021	300001329	n.a.		
44	RF-cable set	R&S	N/A	different	n.a.		
45	IEEE-cables	R&S	N/A	--	n.a.		

Note: 3000002681-00xx inventoried as a system

7 Photographs of the Test Set-up

Photo documentation:

Photo 1:



Photo 2:

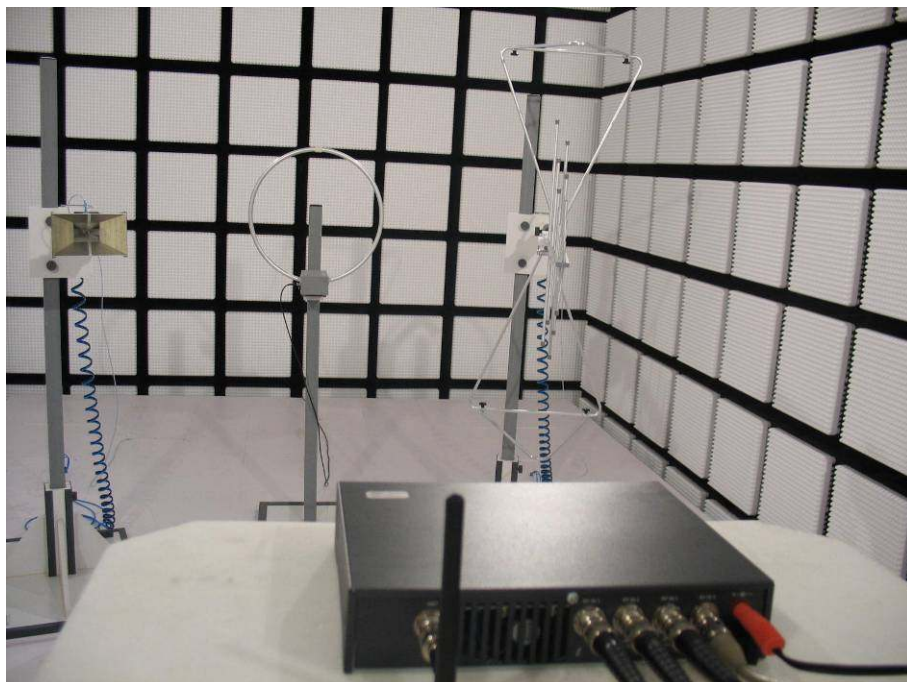


Photo 3:



8 Photographs of the EUT

Photo 4:



Photo 5:



Photo 6:



Photo 7:



Photo 8:

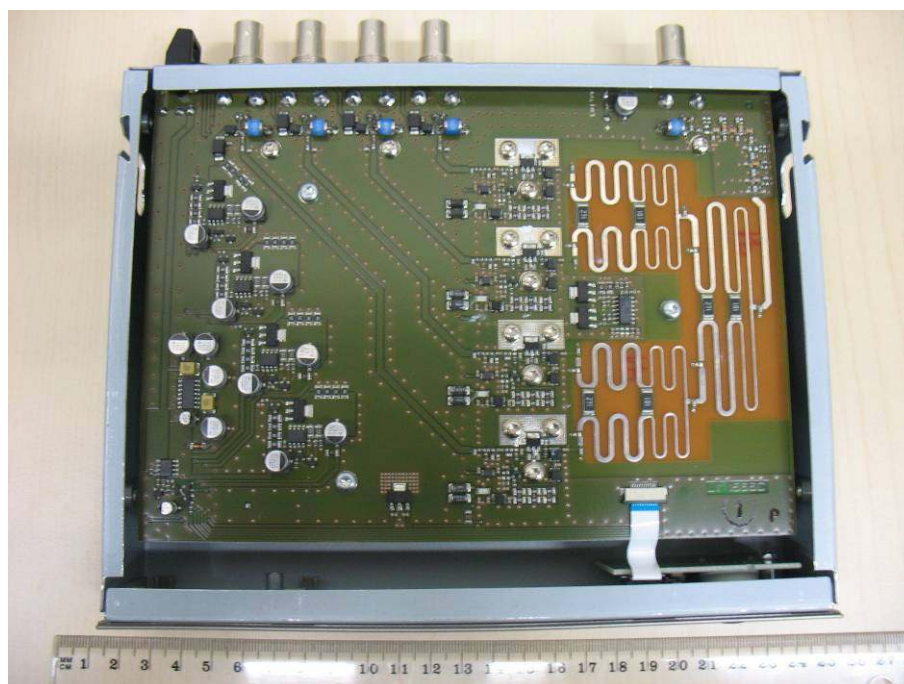


Photo 9:



Photo 10:



Photo 11:

