

Straubing, 16 April 2003

TEST-REPORT

No. 56408-20824

for

AW-8T

Wireless Microphone Transmitter

Applicant: SEKAKU Electron Industry Co. Ltd

Purpose of testing: To show compliance with

FCC Code of Federal Regulations, Part 74 Subpart H, section 74.861

Note:

The test data of this report relate only to the individual item which has been tested. This report shall not be reproduced except in full extent without the written approval of the testing laboratory.



Table of Contents

1.	Ac	ministrative Data	3
2.	lde	entification of Test Laboratory	4
3.	Op	peration Mode of EUT	5
4.	Co	onfiguration	6
5.	Me	easuring Methods	7
	5.1.	Maximum Transmitter Power (§ 2.1046 (a), 74.861 (e))	7
	5.2.	Mean power of emissions 30 MHz – 1 GHz (§ 74.861.e.6.iii)	9
	5.3.	Radiated Emission > 1 GHz (§ 74.861.e.6.iii)	10
	5.4.	Emission Masks (Occupied Bandwidth) § 2.1049 (c) (1)	11
	5.5.	Audio Frequency Response, 2.1047 (a)	12
	5.6.	Modulation Limiting, § 2.1047 (b)	13
	5.7.	Frequency Stability (Temperature Variation), § 2.1055 (a) (1)	14
	5.8.	Frequency Stability (Voltage Variation), § 2.1055 (b) (1)	15
6.	Ph	otographs Taken During Testing	16
7.	Lis	t of Measurements	18
8.	Re	eferenced Regulations	31
Cr	arts t	aken during testing	32



1. Administrative Data

Test item (EUT) AW-8T Type designation Serial number(s): 001 Type of equipment: Wireless Microphone Transmitter Parts/accessories: FCC-ID: **Technical data** Frequency range 794 - 805 MHz Operational frequencies 794.300 MHz, 799.600 MHz, 804.3 MHz Type of modulation 130KF3E Pulse frequency N/A Pulse width N/A Antenna Integrated Power supply 9 V Battery Applicant: SEKAKU Electron Industry Co. Ltd. No. 1 Lane 17, Sec. 2, Han Shi West Road (full address) Taichung 401, Taiwan, R.O.C. Contract identification: Contact person: Joan Wu Manufacturer: SEKAKU Electron Industry Co. Ltd. **Application details** 16 December 2002 Receipt of EUT: Date of test: February 2003 Note: Responsible for testing: Johann Roidt Responsible for test report: Johann Roidt



2. Identification of Test Laboratory

DETAILS OF THE TEST LABORATORY

COMPANY NAME: Senton GmbH EMI/EMC Test Center

ADDRESS: Aeussere Fruehlingsstrasse 45

D-94315 Straubing

Germany

LABORATORY ACCREDITATION: DAR-Registration No. TTI-P-G 062/94-40

FCC TEST SITE LISTING

INDUSTRY CANADA TEST SITE

REGISTRATION

IC 3050

NAME FOR CONTACT PURPOSES: Mr. Johann Roidt

TELEPHONE: (+49) (0)9421 5522-0 FAX: (+49) (0)9421 5522-99

PERSONNEL INVOLVED IN THIS TEST REPORT

TECHNICAL DIRECTOR:

Mr. Johann Roidt

RESPONSIBLE FOR TESTING: Mr. Johann Roidt

RESPONSIBLE FOR TEST REPORT: Mr. Johann Roidt

SUMMARY OF TEST RESULTS

The tested sample complies with the requirements set forth in the Code of Regulations Part 15 Subpart H, Section § 74.861 of the Federal Communication Commission (FCC.



3. Operation Mode of EUT

Transmitter operating continuously, full tests were performed on lowest, middle and highest RF channel.

With battery supply 9.00 V DC



4. Configuration
Configuration of the EUT
Not applicable
Cables connected to the EUT
Not applicable
Peripheral devices connected to the EUT
Not applicable



5. Measuring Methods

5.1. Maximum Transmitter Power (§ 2.1046 (a), 74.861 (e))

5.1.1. Conducted Maximum Transmitter Power

Rules and Specifications:	Sections 2.1046 (a)
Guide:	ANSI/TIA/EIA-603-1992, Paragraph 2.2.11

Measurement Procedure:

A spectrum analyzer / EMI test receiver is connected to the output of the transmitter power amplifier (conducted measurement) via dummy load while EUT was operating in transmit mode using the assigned frequency.

The trace mode of the spectrum analyzer was set to max hold with:

RBW = 100 kHz, VBW = 100 kHz, span = 1 MHz, sweep = 20 ms (auto mode)

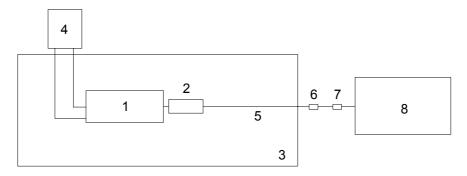


Figure 1: Measurement setup for testing on antenna connector

Test instruments used:

No.	Туре	Model	Serial Number	Manufacturer
01	Spectrum Analyzer	FSP 30	100063	Rohde & Schwarz
08	Power Meter	NRVS	836856/015	Rohde & Schwarz
09	Power Sensor	NRV-Z52	837901/030	Rohde & Schwarz
18	Attenuator 20 dB	4776-20	9503	Narda
19	Attenuator 10 dB	4776-10	9412	Narda



5.1.2. Radiated Maximum Transmitter Power

Radiated Maximum Transmitter Power was measured with detector-function of the spectrum analyzer set to positive peak and trace mode max hold: RBW = 100 kHz, VBW = 100 kHz, span = 1 MHz, sweep = 15 s

For measurement setup and procedure see section 5.2



5.2. Mean power of emissions 30 MHz - 1 GHz (§ 74.861.e.6.iii)

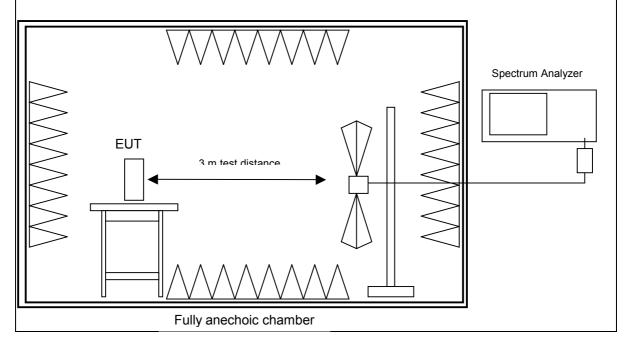
Rules and Specifications:	Sections 2.1053
Guide:	ANSI/TIA/EIA-603-1992, Paragraph 2.2.11

Measurement Procedure:

Radiated emissions were measured over the frequency range from 30 MHz to 1 GHz. For final testing the detector-function of the spectrum analyzer was set to positive peak and trace mode max hold: RBW = 3 kHz, VBW = 10 kHz, span = 20 kHz, sweep = 10 s

Measurements were made in both the horizontal and vertical planes of polarization in a fully anechoic room using a spectrum analyzer with the detector function set to peak and resolution bandwidth set to 100 kHz. All tests were performed at a test-distance of 3 meters. 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. For final testing an open-area test-site was used. During the tests the EUT was rotated all around and the receiving-antenna was raised and lowered from 1 meter to 4 meters to find the maximum levels of emissions. The cables and equipment were placed and moved within the range of position likely to find their maximum emissions.

Final testing was performed referring to substitution method as described in TIA/EIA-603, section 2.2.12 ("Radiated Spurious Emissions").



Test instruments used:

No.	Туре	Model	Serial Number	Manufacturer
01	Spectrum Analyzer	FSP 30	100063	Rohde & Schwarz
113	Preamplifier	CPA9231A	3393	Schaffner
141	Biconical antenna	HK 116	829708/006	Rohde & Schwarz
143	Log. periodic antenna	3147	9112-1054	EMCO
003	Fully anechoic room	No. 2	1452	Albatross Projects



5.3. Radiated Emission > 1 GHz (§ 74.861.e.6.iii)

Rules and Specifications:	Sections 2.1053	
Guide:	ANSI/TIA/EIA-603-1992, Paragraph 2.2.11	

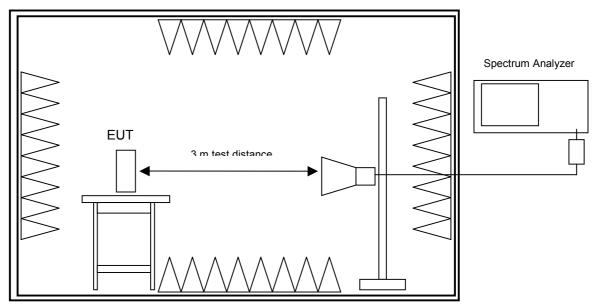
Measurement Procedure:

Radiated emissions are measured in the frequency range 1 GHz to 8 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 fully-anechoic chamber with a test-distance of 3 meters.

If required preamplifiers are used for the whole frequency range. Special care is taken to avoid overload in transmit mode (using appropriate attenuators and filters if necessary).



Fully anechoic chamber

Test instruments used:

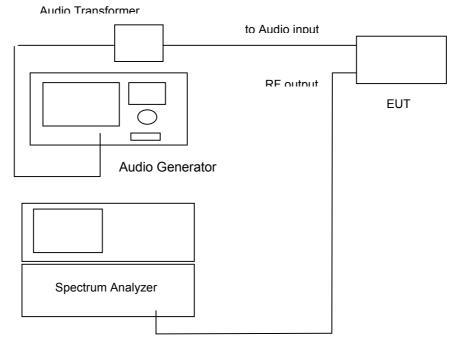
No.	Туре	Model	Serial Number	Manufacturer
01	Spectrum Analyzer	FSP 30	100063	Rohde & Schwarz
143	Log. periodic antenna	3147	9112-1054	EMCO
145	Horn antenna	3115	9508-4553	EMCO
146	Horn antenna set	3160-03/-09	9112-1003	EMCO
114	Preamplifier 1-8 GHz	AFS3-00100800- 32-LN	847743	Miteq
115	Preamplifier 8-18 GHz	ACO/180-3530	32641	CTT
003	Fully anechoic room	No. 2	1452	Albatross Projects



5.4. Emission Masks (Occupied Bandwidth) § 2.1049 (c) (1)

Rules and Specifications:	Sections 2.1049 (c) (1),		
Guide:	ANSI/TIA/EIA-603-1992, Paragraph 2.2.11		
Test Conditions:	As indicated below		
Measurement Procedure:	The EUT and equipment were set up as shown below		
	The audio signal was adjusted for 16 dB above 50 % of nominal modulation at the frequency of maximum response.		
	The occupied bandwidth was measured with the Spectrum Analyzer set as shown on the test charts.		

Test Setup



Test instruments used:

No.	Туре	Model	Serial Number	Manufacturer
108	Radio communication service monitor	CMS 54	838384/030	Rohde & Schwarz
102	Spectrum analyzer	FSP30	100036	Rohde & Schwarz
121	Attenuator	4776-10	9412	Narda
122	Attenuator	4776-20	9503	Narda
107	Audio analyzer	UPA	862954	Rohde & Schwarz

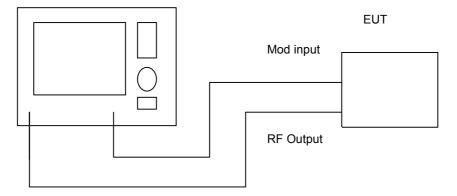


5.5. Audio Frequency Response, 2.1047 (a)

Rules and Specifications:	Sections 2.1047 (b),		
Guide:	ANSI/TIA/EIA-603-1992, Paragraph 2.2.3		
Test Conditions:	As indicated below		
Measurement Procedure:	The audio signal was coupled to the microphone via a calibrated loudspeaker.		
	The audio signal was adjusted for 20 % nominal modulation at 1 kHz. this was taken as 0 dB reference.		
	With input levels held constant, the audiosignal was varied from 100 Hz to 30 kHz		
	The response was measured and recorded with a CMS 54 Radiocommunication Tester		

Test Setup

Radio Communication Tester



Test instruments used:

No.	Туре	Model	Serial Number	Manufacturer
108	Radio communication service monitor	CMS 54	838384/030	Rohde & Schwarz
102	Spectrum analyzer	FSP30	100036	Rohde & Schwarz
121	Attenuator	4776-10	9412	Narda
122	Attenuator	4776-20	9503	Narda
107	Audio analyzer	UPA	862954	Rohde & Schwarz

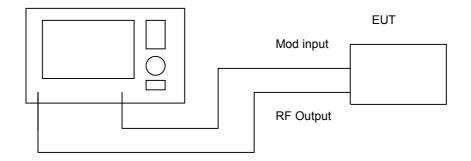


5.6. Modulation Limiting, § 2.1047 (b)

Rules and Specifications:	Sections 2.1047 (b),	
Guide:	ANSI/TIA/EIA-603-1992, Paragraph 2.2.3	
Test Conditions:	As indicated below	
Measurement Procedure:	The audio signal was coupled to the microphone via a calibrated loudspeker.	
	9. The modulation response was measured for three frequencies including the frequency with maximum response found during "Audio Frequency Response Test". Output Description:	
	10. The input level was varied from 30 % modulation to 20 dB higher than the saturation point. The resulting deviation was measured with a CMS 54 Radiocommunication Tester.	
	11. Measurements were performed for positive and negative deviation.	

Test Setup

Radio Communication



Test instruments used:

No.	Туре	Model	Serial Number	Manufacturer
108	Radio communication service monitor	CMS 54	838384/030	Rohde & Schwarz
102	Spectrum analyzer	FSP30	100036	Rohde & Schwarz
121	Attenuator	4776-10	9412	Narda
122	Attenuator	4776-20	9503	Narda
107	Audio analyzer	UPA	862954	Rohde & Schwarz

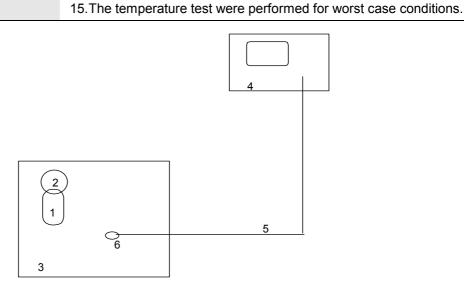


5.7. Frequency Stability (Temperature Variation), § 2.1055 (a) (1)

Rules and Specifications:	Sections 2.1055 (a) (1), 74.861 (e) (4)	
Guide:	ANSI/TIA/EIA-603-1992, Paragraph 2.2.2	
Test Conditions:	As indicated below	
Measurement Procedure:	12. The EUT and test equipment were set up as shown below	
	13. With all power removed, the temperatuere was decreased to –30 °C and permitted to stabilize for three hours. Power was applied and the maximum change in frequency was noted within one minute.	
	14. With power OFF, the temperature was raised in 10 °C steps. The	

was noted within one minute.

sample was permitted to stabilize at each step for at least half of an hour. Power was applied and the maximum frequency change



- 1 Base unit (EUT)
- 2 RF-antenna (EUT)
- 3 Temperature test chamber
- 4 Spectrum analyzer
- 5 RF cable
- 6 Test probe

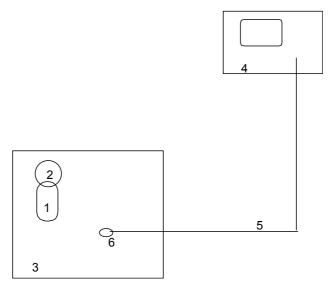
Test instruments used:

No.	Туре	Model	Serial Number	Manufacturer
102	Spectrum analyzer	FSP30	100036	Rohde & Schwarz
121	Attenuator	4776-10	9412	Narda
122	Attenuator	4776-20	9503	Narda
017	DC power supply	NGSM 32/10	203	Rohde & Schwarz
007	Temperature test chamber	HT4010	07065550	Heraeus



5.8. Frequency Stability (Voltage Variation), § 2.1055 (b) (1)

Rules and Specifications:	Sections 2.1055 (b) (1), 74.861 (e) (4)	
Guide:	ANSI/TIA/EIA-603-1992, Paragraph 2.2.2	
Measurement Procedure:	16.The EUT and test equipment were set up as shown below	
	17.The temperature was set to 20 °C	
	18. The supply voltage was varied from 85% to 115% of the nominal voltage measuured at the input of the EUT.	
	19. The variation in frequency was measured for worst case conditions.	



- 1 Base unit (EUT)
- 2 RF-antenna (EÚT)
- 3 Temperature test chamber
- 4 Spectrum analyzer
- 5 RF cable
- 6 Test probe

Test instruments used:

No.	Туре	Model	Serial Number	Manufacturer
102	Spectrum analyzer	FSP30	100036	Rohde & Schwarz
121	Attenuator	4776-10	9412	Narda
122	Attenuator	4776-20	9503	Narda
017	DC power supply	NGSM 32/10	203	Rohde & Schwarz
020	Variable transformer	RT 5A	10387	Grundig



6.	Photographs Taken During Testing
	g



Test setup for radiated emission measurement 30 MHz – 8 GHz (fully anechoic room)





7. List of Measurements

FCC Part 74 Subpart H					
Section(s):	Test	Page(s)	Result		
	Transmitter:				
74.861.e.1	Measured unmodulated carrier power	20	Pass		
74.861.e.6	Mean power of emissions 30 MHz - 1 GHz	21-22	Pass		
74.861.e.6	Mean power of emissions 1 GHz - 8.0 GHz	21-22	Pass		
74.861.e.5	Operating bandwidth	24-29	Pass		
74.861.e.4	Frequency tolerance	30-31	Pass		
	Receiver				
15.107	AC Powerline Emissions		Not applicable		
15.109	Radiated Spurious emissions		Not applicable		



Carrier Power Measurement

Rules and Specifications:	74.861 (e) (1) (i), 2.1046 (a)
Guide:	ANSI/TIA/EIA-603-1992, § 2.2.1
Limit:	The power of the measured unmodulated carrier power at the output of the transmitter power amplifier may not exceed 50 mW.

Test Site:	Radio Lab.
Distance:	Conducted Measurement
Date of Test:	26 March 2003

Frequency (MHz)	Detector	Antenna Polarization	Analyzer Reading (dBm)	Correction Factor (dB)	Mean Power (dBm)	Limit (dBm)	Margin (dB)
794,300	AV	N/A	2,6	0	2,6	17,0	14,4
799,600	AV	N/A	2,6	0	2,6	17,0	14,4
804,300	AV	N/A	2,4	0	2,4	17,0	14,6

^{*** =} No emissions above noise floor detected

Sample calculation of erp values:

Mean Power (dBm) = Analyzer Reading (dBm) + Correction Factor (dB)

Test Results:	Pass	
---------------	------	--



Spurious Radiation Measurement

Rules and Specifications:	74.861 (e) (6) (iii), 2.1053 (a),
Guide:	ANSI/TIA/EIA-603-1992, § 2.2.12
Limit:	The attenuation for any frequency removed from the operating frequency by more than 50% up to 100% of the authorized bandwidth must be at least 25 dB by more than 100% up to 250% of the authorized bandwidth must be at least 35 dB by more than 250% of the authorized bandwidth must be at least 43+10log(mean output power in watts)

Tested Frequency:	794,300 MHz
Test Site:	Fully anechoic chamber
Distance:	3 Meter

		Reading (dBm)	Factor (dB)	(dBm)	Limit (dBm)	Margin (dB)
AV	Ver	-82,9	42,17	-40,84	-13,00	27,8
AV	Ver	-94,9	45,36	-49,61	-13,00	36,6
AV	Ver	-93,5	50,39	-43,11	-13,00	30,1
	AV	AV Ver	AV Ver -82,9 AV Ver -94,9	AV Ver -82,9 42,17 AV Ver -94,9 45,36	AV Ver -82,9 42,17 -40,84 AV Ver -94,9 45,36 -49,61	AV Ver -82,9 42,17 -40,84 -13,00 AV Ver -94,9 45,36 -49,61 -13,00

^{*** =} All emissions showed more than 20 dB margin to the limit

Sample calculation of erp values:

Mean Power (dBm) = Analyzer Reading (dBm) + Correction Factor (dB)

Test Results:	Pass	

FCC-ID: Test Report No. 56408-20824



Spurious Radiation Measurement

Rules and Specifications:	2.1053 (a), 74.861 (e) (6) (i), (II), (iii)
Guide:	ANSI/TIA/EIA-603-1992, § 2.2.12
Limit:	The attenuation for any frequency removed from the operating frequency by more than 50% up to 100% of the authorized bandwidth must be at least 25 dB by more than 100% up to 250% of the authorized bandwidth must be at least 35 dB by more than 250% of the authorized bandwidth must be at least 43+10log(mean output power in watts)

Tested Frequency:	799.600 MHz			
Test Site:	Fully anechoic chamber			
Distance:	3 Meter			

Frequency	Detector	Antenna	Analyzer		Mean Power	Limit (dBm)	Margin (dB)
(MHz)		Polarization	Reading	Factor (dB)	(dBm)		
			(dBm)				
1600,000	AV	Ver	-83,9	42,3	-41,6	-13,0	28,6

^{*** =} All emissions showed more than 20 dB margin to the limit

Sample calculation of erp values:

Mean Power (dBm) = Analyzer Reading (dBm) + Correction Factor (dB)

Test Results:	Pass	
---------------	------	--



Spurious Radiation Measurement

Rules and Specifications:	2.1053 (a), 74.861 (e) (6) (i), (II), (iii)
Guide:	ANSI/TIA/EIA-603-1992, § 2.2.12
Limit:	The attenuation for any frequency removed from the operating frequency by more than 50% up to 100% of the authorized bandwidth must be at least 25 dB by more than 100% up to 250% of the authorized bandwidth must be at least 35 dB by more than 250% of the authorized bandwidth must be at least 43+10log(mean output power in watts)

Tested Frequency:	804.300 MHz
Test Site:	Fully anechoic chamber
Distance:	3 Meter

Frequency (MHz)	Detector	Antenna Polarization	Analyzer Reading (dBm)	Correction Factor (dB)	Mean Power (dBm)	Limit (dBm)	Margin (dB)
1608,000	AV	Ver	-85,5	42,4	-43,1	-13,0	30,1

^{*** =} All emissions showed more than 20 dB margin to the limit

Sample calculation of erp values:

Mean Power (dBm) = Analyzer Reading (dBm) + Correction Factor (dB)

Test Results:	Pass	
---------------	------	--

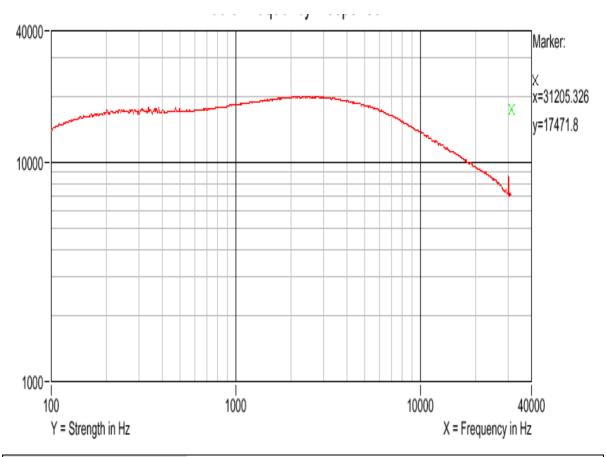
FCC-ID: Test Report No. 56408-20824



Measurement of Audio Frequency Response

Rules and Specifications:	Sections 74.861 (5) and 2.1049 (c) (1)
Limits and Requirements:	
Nominal Frequency of EUT:	799.600 MHz

Test Procedure:	According to TIA/EIA.603-1992, § 2.2.6
	Note: The audio signal was coupled to the microphone inputof the transmitter via an audio isolation transformer with sufficient bandwidth



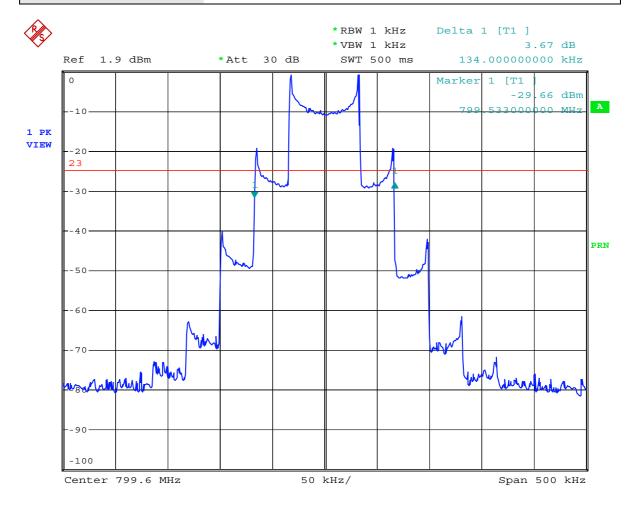
Test Results:	See graph above
---------------	-----------------



Measurement of Emission Masks (Occupied Bandwidth

Rules and Specifications:	Sections 74.861 (5) and 2.1049 (c) (1)
Limits and Requirements:	The operating bandwidth shall not exceed 200 kHz
Nominal Frequency of EUT:	799.600 MHz

Test Procedure: According to TIA/EIA.603-1992, § 2.2.11	
---	--



Comment A: UN20824 Occupied Bandwith - 2.5 kHz Date: 17.APR.2003 16:01:14

Test Results:	See graph above



Measurement of Emission Masks (Occupied Bandwidth

Rules and Specifications:

Limits and Requirements:

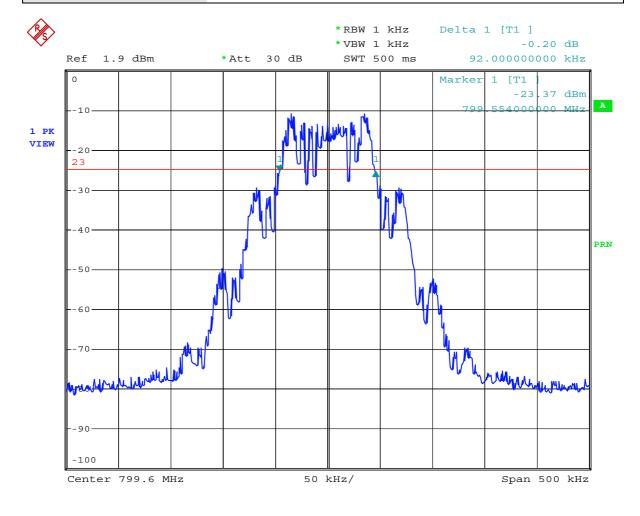
Nominal Frequency of EUT:

Sections 74.861 (5) and 2.1049 (c) (1)

The operating bandwidth shall not exceed 200 kHz

799.600 MHz

Test Procedure: According to TIA/EIA.603-1992, § 2.2.11



Comment A: UN20824 Occupied Bandwith - 2.5 kHz Date: 17.APR.2003 16:05:37

Test Results: See graph above



Measurement of Emission Masks (Occupied Bandwidth

Rules and Specifications:

Limits and Requirements:

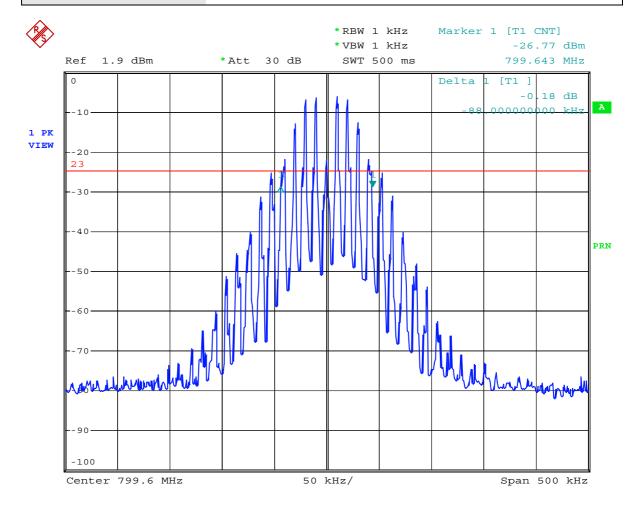
Nominal Frequency of EUT:

Sections 74.861 (5) and 2.1049 (c) (1)

The operating bandwidth shall not exceed 200 kHz

799.600 MHz

Test Procedure: According to TIA/EIA.603-1992, § 2.2.11	
---	--



Comment A: UN20824 Occupied Bandwith - 10 kHz Date: 17.APR.2003 15:57:20

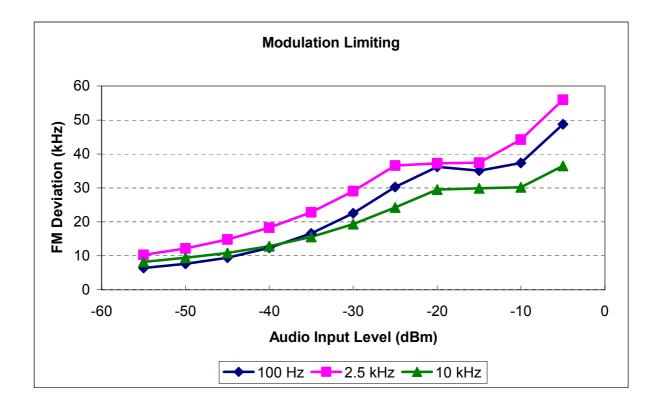
Test Results:	See graph above
---------------	-----------------



Measurement of Modulation Limiting

Rules and Specifications:	Sections 2.1047 (b) and 74.861
Limits and Requirements:	The frequency deviation shall be < 75 kHz
Nominal Frequency of EUT:	799,600 MHz

Test Procedure:	According to TIA/EIA.603-1992, § 2.2.3
	Note: The audio signal was coupled to the microphone input of the transmitter via a direct connection



Test Results:	Pass	
---------------	------	--



Type of Emission

Rules and Specifications:	Sections 74.861 (5) and 2.1049 (c) (1)
Limits and Requirements:	ANSI TIA/EIA-603-1992
Nominal Frequency of EUT:	799,600 MHz

Bn = 2M + 2DK
M =15 kHz
D =56 kHz
K =1
Bn = 2(15 kHz) + 2(66 kHz) = 30 + 132 = 162 kHz

Type of Emission = 162KF3E



Measurement of Frequency Stability vs Temperature

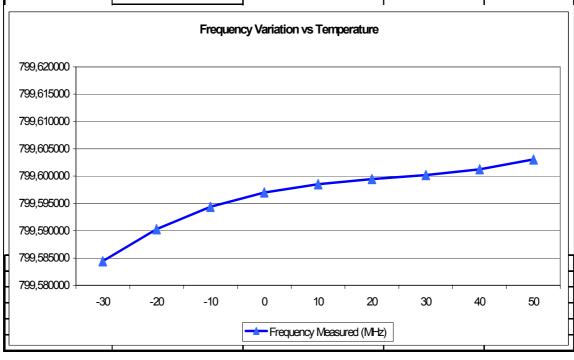
Rules and Specifications: Section 74.861 (e) (4), 2.1055

Limits and Requirements: The frequency tolerance of the transmitter shall be 0.005 %

Nominal Frequency of EUT: 799.600 MHz

Temperature Variation Table

Temperature (°C)	Nominal Frequency (MHz)	Frequency Measured (MHz)	Frequency Tolerance (ppm)	Limit (ppm)
-30	799,600000	799,584440	-19,46	50
-20	799,600000	799,590270	-12,17	50
-10	799,600000	799,594370	-7,04	50
0	799,600000	799,597020	-3,73	50
10	799,600000	799,598520	-1,85	50
20	799,600000	799,599450	-0,69	50
30	799,600000	799,600170	0,21	50
40	799,600000	799,601260	1,58	50
50	799,600000	799,603060	3,83	50



Test Results:	Pass	
1 COL INCOUNTS.	1 400	



Measurement of Frequency Stability vs Supply Voltage

Rules and Specifications:	Sections 74.861 (e) (4), 2.1055 (d)
Limits and Requirements:	The frequency tolerance of the transmitter shall be 0.005 %
Nominal Frequency of EUT:	799.600 MHz
Battery end-point:	5.0 V

Voltage Variation Table

Supply Voltage (V)	Nominal Frequency (MHz)	Frequency Measured (MHz)	Frequency Tolerance (ppm)	Limit (ppm)
5,00	799,600000	799,599490	-0,64	50
7,65	799,600000	799,599440	-0,70	50
9	799,600000	799,599450	-0,69	50
10,35	799,600000	799,599470	-0,66	50
799,620000 799,615000 799,610000 799,605000 799,595000 799,595000 799,585000 799,585000	5,00 7,6	55 9	10,35	Reihe1

Test Results:	Pass	
---------------	------	--



8. Referenced Regulations

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

\boxtimes	FCC Part 2	Code of Federal Regulations Part 2	October 01, 1999
		Frequency allocationand radio treaty matters;	
		General rules and regulations	
	FCC Part 15	Code of Regulations Part 15 (Radio Frequency	October 20, 1997
	Subpart A	Devices), Subpart A (General) of the Federal	
		Communication Commission (FCC)	
	FCC Part 15	Code of Regulations Part 15 (Radio Frequency	October 20, 1997
	Subpart B	Devices), Subpart B (Unintentional Radiators) of	
		the Federal Communication Commission (FCC)	
	FCC Part 15	Code of Regulations Part 15 (Radio Frequency	October 20, 1997
	Subpart C	Devices), Subpart C (Intentional Radiators) of the	
		Federal Communication Commission (FCC)	
\boxtimes	FCC Part 74	Code of Regulations Part 15 (Radio Frequency	October 20, 1997
	Subpart H	Devices), Subpart H (Low Power Auxiliary	
		Stations) of the Federal Communication	
		Commission (FCC)	
\boxtimes	ANSI C63.4	American National Standard for Methods of	October, 1992
		Measurement of Radio-Noise Emissions from	
		Low-Voltage Electrical and Electronic Equipment	
_		in the Range of 9 kHz - 40 GHz	
Ш	RSS-210	Radio Standards Specification RSS-210 Issue 2	February 24, 1996
		for Low Power Licence-Exempt	
		Radiocommuniction Devices of Industry Canada	



Charts taken during testing	

Radiated Power Test 25 MHz - 200 MHz acc. to FCC Part 74 Subpart H

Mode AW-					Comme					
Serial no.: new test sample					-	nnel: 794.:	300 MH:	Z		
Applic	cant:	logies Co. Ldt.			-					
Test	site:									
Teste		om, cabin no. 2	2							
	: distance 3 m zontal Polariz									
	of test: 8/2003		rator: Steindl							
Test p	performed:	File	name:							
	matically	defa	ault.emi							
Detect Peal					List of v	alues: Margin		50 Subra	anges	
dBm					Limit	1: FCC §7	4.861	Transducer:	Substituti	ion (H)
0	1 1 1	1	1)))	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1			
-10		· · · · · · · · · · · · · · · · · · ·								
	1	1		0.00		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
-20							-			
-30						· · · · · · · · · · · · · · · · · · ·				
-30		1		1 1	1	· · · · · · · · · · · · · · · · · · ·				
-40		· 				· · · · · · · · · · · · · · · · · · ·				
	1			0 0 0						
-50				1						
-60				, ,						
-00	1			0 0 0						
-70										
				1 1 1						
-80		· · · · · · · · · · · · · · · · · · ·		1	- 1 1	1 1 1 1	1			
-90			~~~	Minne	~*************************************	WW	γν <u>ί</u> ννννν	Whommy on -n	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	āmturunļu.
				1	1			11 12 1/11/11/1	~ N^N-wa. M-NVIN-WN/V	Λ
-100	1	1	1	1	1	1	1			
2	25	40	50	60	70 8	80 90	100			200 MHz
Resul	lt: t kept				Project	file: 3-20824		Page	of	Pages

Radiated Power Test 25 MHz - 200 MHz acc. to FCC Part 74 Subpart H

Model						Comme					
Serial		lo.				- - Char	nnel: 7	94.300 MF	Нz		
Applic	test samp	ie				-					
		nologies Co.	Ldt.			-					
Test s			_								
Fully		room, cabin i	no. 2								
Test	distance 3 ical Polariz										
03/2	of test: 8/2003		Operator: M. Steindl								
1	performed: matically		File name: default.emi								
Detec Peak	tor:		derault.emi			List of va		n	50 Subra	nges	
dBm					<u> </u>	Limit'	1: FCC	\$74.861	Transducer:	Substitu	tion (V)
0	1		1	1	1	1 1					
			1	1	1						
-10					. (
			1	1	1						
-20	;-		<u> </u>								,
	1		1	1	1						
-30					· · · · · · · · · · · · · · · · · · ·						
			1	1	1						
-40						·		· · · · · · · · · · · · · · · · · · ·			
10			1	1	1		,				
50			1	1	1		,				
-50											
			1	1	1						
-60							1				
			1	1	1 1						
-70	;-					.' '					
			1	1	1						
-80							1				
			1								
-90			<u>-</u> - M	,	W. W. W.	MVVVV.	~~\\\ <u>`</u>	~	vm>vm\n\m\m\m\m\m\m\m\m\m\m\m\m\m\m\m\m\m\m	1 (1 July 1 J	
		~~~	<b>√</b> -√	1	1				is Mywy	MMMMMMMM	Marian
-100	1		1	1	1						
2	5	4	10 5	50 (	60 7	70 8	0 9	0 100			200 MH
Resul- Limit	t: t kept					Project f		4	Page	of	Pages

# Radiated Power Test 200 MHz - 1 GHz acc. to FCC Part 74 Subpart H

Model AW-	8T			Comment: - TX-Mode					
	test sample			- Channel: 79	4.300 MH	lz			
Applic	_{cant:} ersal Technologies C	o I dt		-					
Test s	site:								
Fully	anechoic room, cabi	n no. 2							
Test	distance 3 meters zontal Polarization								
	of test: 8/2003	Operator: M. Steindl							
Test p	performed: matically	File name: default.emi							
Detec Peak				List of values: 10 dB Margin		50 St	ubranges	3	
dBm 0				Limit1: FCC	§74.861	Transduc	er: Subs	stitution	(H)
O		1			1	1	1	1	
-10									
					1	1	1		
-20							*		
		1	1	1	1 1 1	1 1 1	11 11 11	1	
-30						1 1 1 1			
40		1 1	1	, ,	1 1 1	1	1	1	
-40		1			1	1		,	
-50				<del>.</del>		; <del>!</del>		; !	
		1			1	1		1	
-60		, 			₁	· · · · · · ·		,	
		1 1	1	0 0 0	1	1	1	1	
-70		<del>-</del>				<u>-</u>			
		1 1			1 1	; 'l\w'	mmwh.	. 104	mm
-80				introdium,	humphing	mh him	:  V _W M	-www.my	·
-90	\				) 	1	1 1 1 = = = = = = = = = = = = = = = = =		
30		1			1	1	1		
-100									
20	00	300	400	500	600	700	800	900	1000 MHz
Resul				Project file:					
Limit	t kept			56408-20824		Paç	ge o	f P	ages

# Radiated Power Test 200 MHz - 1 GHz acc. to FCC Part 74 Subpart H

Model: AW-8T				Comment						
Serial no.:				- Chann	nel: 794.300	) MHz				
new test sa	mple			- Chan	161. 7 34.300	) IVII 12				
	echnologies Co. Ld	lt.		-						
Test site:										
	oic room, cabin no.	2								
Tested on: Test distand Vertical Pol										
Date of test: 03/28/2003	Оре	erator: Steindl								
Test performed		e name:								
automatical	lly de	fault.emi								
Detector: Peak				List of val			50 Subrai	nges		
dBm				Limit1:	FCC §74.8	61 Trai	nsducer: :	Substitu	ition (	V)
0		1	1	1		1	1	1	1	
						!	1	1	1	
-10							, · · · · · · · · · · · · · · · · · · ·	<del>-</del>		-
		•	1	1		1	1	1	1	
-20			<u> </u>				·		-¦ -	-
		1	1	1		1	1	1	1	
-30			<u> </u>	· '		! !	!	!	-!	-
		1 1		1		1	1		1	
-40			<u> </u>				· -	; , ·	; -,	-
			1	1		1	1	1	1	
-50						'	1	'		_
		1	1	1		1	1	1	1	
60		•		1		1	1	1	1	
-60				· · · · · · · · · · · · · · · · · · ·		1			-,	-
		1		1		1	1	  -  -	1	
-70		·¦				' ·			-¦ 	-
			:			1	<u> </u>	, www.www	Wandu	
-80		Λ.Α	٠			 	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		 	, in
	^~ <i>^</i>	im was	; \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	~~~~~ ;	www.	1	1	1	1	
-90							<u> </u>			-
h		1	1	1		1	1 1	1 1	1	
-100		1	1	1		1	1	1	1	
200	3	600 4	.00	50	00 6	00 7	700 8	00 9		1000 MHz
Result: Limit kept				Project file 56408-2			Page	of	Pa	ges

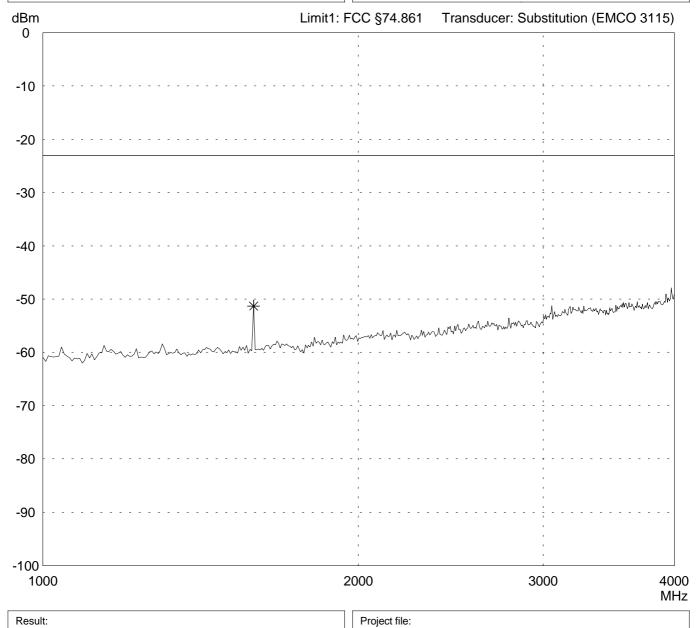
Model:		
AW-8T		
Serial no.:		
new test sample		
Applicant:		
Sekaku		
Test site:		
Fully anechoic room, of	cabin no. 2	
Tested on:		
Test distance 3 metres Horizontal Polarization	<del>-</del>	
Date of test:	Operator:	
04/17/2003	M. Steindl	
Test performed:	File name:	
automatically	default.emi	
Detector:		

Limit kept

Comment:

- sending continously
- transmitter attached to microphone
- channel: 794.3 MHz
- _
- with high pass filter: WHKS1000-10SS





56408-20824

Page

of

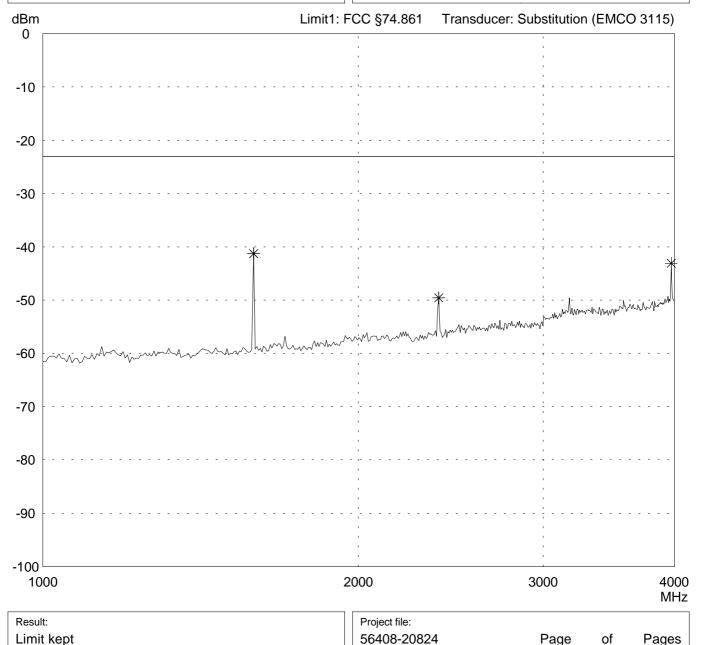
Model:		
AW-8T		
Serial no.:		
new test sample		
Applicant:		
Sekaku		
Test site:		
Fully anechoic room, cabi	n no. 2	
Tested on:		
Test distance 3 metres Vertical Polarization		
Date of test:	Operator:	
04/17/2003	M. Steindl	
Test performed:	File name:	
automatically	default.emi	

Limit kept

Comment:

- sending continously
- transmitter attached to microphone
- channel: 794.3 MHz
- with high pass filter: WHKS1000-10SS





Page

of

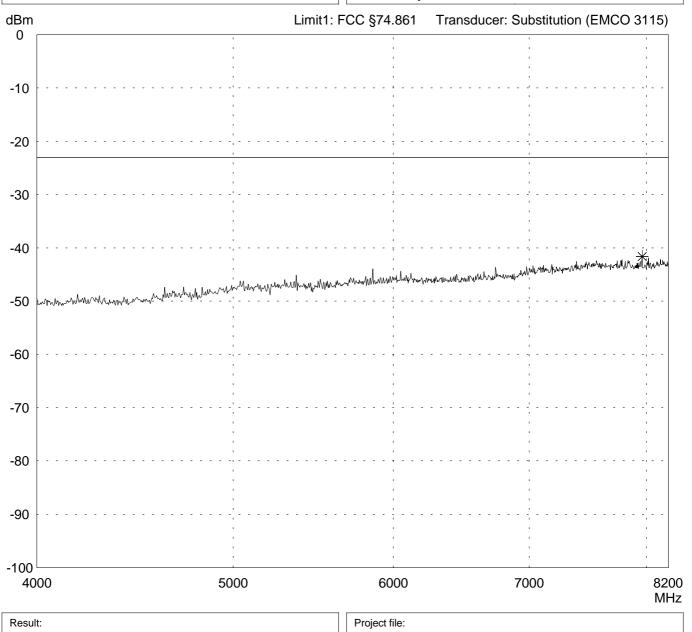
Model:		
AW-8T		
Serial no.:		
new test sample		
Applicant:		
Sekaku		
Test site:		
Fully anechoic room, cabi	n no. 2	
Tested on:		
Test distance 3 metres Horizontal Polarization		
Date of test:	Operator:	
04/17/2003	M. Steindl	
Test performed:	File name:	
automatically	default.emi	

Limit kept

Comment:

- sending continously
- •
- transmitter attached to microphone
- channel: 794.3 MHz
- -
- with high pass filter: WHK/M3/13G-10SS





56408-20824

Page

of

Model:			
AW-8T			
Serial no.:			
new test sample			
Applicant:			
Sekaku			
Test site:			
Fully anechoic room, cabir	no. 2		
Tested on:			
Test distance 3 metres Vertical Polarization			
Date of test:	Operator:		
04/17/2003	M. Steindl		
Test performed:	File name:		
automatically	default.emi		

Limit kept

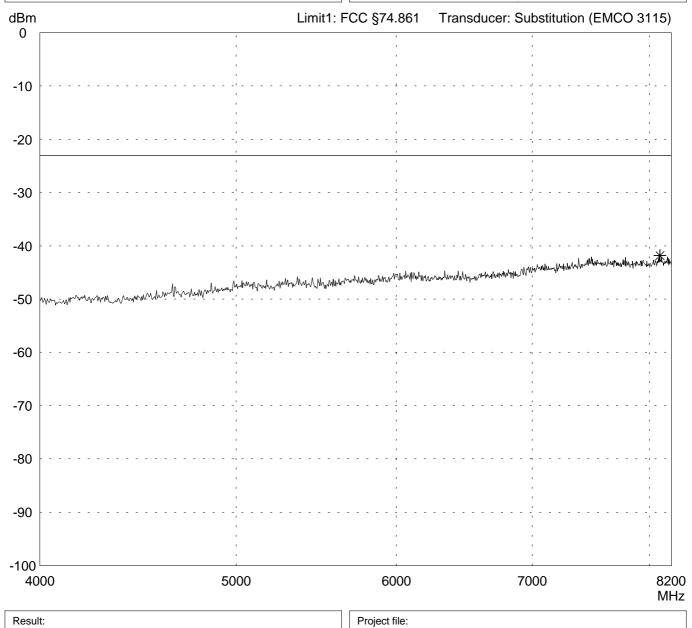
Comment:

- sending continously
- .
- transmitter attached to microphone
- channel: 794.3 MHz
- _
- with high pass filter: WHK/M3/13G-10SS

Detector:

Peak

List of values:
Selected by hand



56408-20824

Page

of

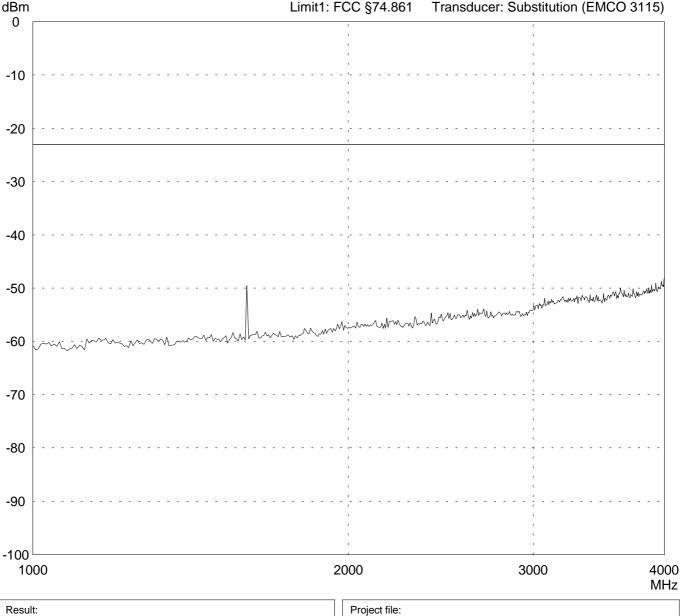
Mode AW-						Comme							
Serial no.: new test sample				- 1X-Wode - - Channel: 799.600 MHz									
Applic	Applicant:				- -								
Test		nnologies Co.	Lat.										
		room, cabin r	no. 2										
Test	Tested on: Test distance 3 meters Horizontal Polarization												
Date	of test:		Operator: M. Steindl										
	performed:		File name:										
auto	matically		default.emi										
Detec						List of v		n		50 S	ubrang	es	
dBm							1: FCC		861	Transdu			tion (H)
0	1		1	1	1	1	1 1						
-10							· · · · · · · · · · · · · · · · · · ·						
-10	1		1	1	1	1	1 1						
-20				· 	, ,		· · · · · · · · · · · · · · · · · · ·	:					
	1		1	1	1	1	1						
-30	'.				'		' '	· · · · ·					
				1	1								
-40			, ,		;	<u>.</u>	',, '						
<b>50</b>			1	1	1	1							
-50			1										
-60			( (		1 1 1	· ·	  - 						
	1		1	1	1	1	· · · · · · · · · · · · · · · · · · ·						
-70					'		! !	'					
				1	1								
-80			i		1	1	  -	 					
00		$\mathcal{M}$	; ;\\	·	<u>'</u>	, , ,	,	Mymi	~\~	h		.1	. www
-90		<b>^</b>		N. e	1			V '3' .	WV~-*	71/4/MMV	₩ <mark>₩</mark> ₩₩₩₩	Mayani	Minnemonthin
-100	1		1	1	1								
	25	4	10 5	50 6	60 7	70 8	0 9	0 10	00				200 MHz
Resul	_{lt:} t kept					Project 56408		4		Pa	ue	of	Pages

Model AW-				Comment: - TX-Mode					
	Serial no.: new test sample  Applicant: Universal Technologies Co. Ldt.			- - Channel: 799.600 MHz					
1				-					
Test s	site:								
		m, cabin no. 2							
	^{a on:} distance 3 me ical Polarizatio								
	of test:	Operator:							
	8/2003 performed:	M. Stein	dl						
1	matically	default.e	emi						
Detec Peak				List of values:	n 50	Subranges			
dBm				Limit1: FCC		ducer: Substitution (V)			
0	1	1	1 1	1 1 1	1				
			1						
-10									
-20									
	1	1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1				
-30									
	1	1	1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1				
-40				,,,- 1					
-50									
00	1	1	1 1	1 1 1					
-60									
	1	1	1 1		1				
-70					!				
-	1	1	1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					
-80		1	1 1	1 1 1					
-90			\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	mm mm	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	SMENT TO THE TOTAL THE MARKET			
			1 1		, , , , , , , , , , , , , , , , , , ,	AMMA ANVIV JANAN-MANANJANJANIA KAJAN.			
-100	1		1 1		1				
2	5	40	50 60	70 80 90	100	200 MHz			
Result	^{t:} t kept			Project file: 56408-20824		Page of Pages			

Model: AW-8T  Comment: - TX-Mode	
Serial no.:  new test sample  - Channel: 799.600 MHz	
Applicant:	
Universal Technologies Co. Ldt.	
Test site: Fully anechoic room, cabin no. 2	
Tested on:	
Test distance 3 meters Horizontal Polarization	
Date of test: Operator:	
03/28/2003 M. Steindl  Test performed: File name:	
automatically default.emi	
Detector: List of values:	
Peak 10 dB Margin 50 Subrang	es
dBm Limit1: FCC §74.861 Transducer: Su	bstitution (H)
	1
	1
-10	
-20	
	1
-30	
	1
-40	
-50	
	1
-60	1
	1
70	1
-70	
The state of the s	. Julywyk
-8()	;  Mandary
and a summer and the	,
-90	
	1
-100	000 155
200 300 400 500 600 700 800	900 1000 MHz
Result: Project file:	

Model				Comment: - TX-Mode					
Serial	no.: test sample			- - Channel: 79	9.600 MH	lz			
Applic		Co. Ldt.		-					
Test s									
Tested									
Date 0	of test: 8/2003	Operator: M. Steindl							
1	performed: matically	File name: default.emi							
Detect Peak				List of values: 10 dB Margin		50 Su	ıbranges		
dBm 0				Limit1: FCC	§74.861	Transduc	er: Subs	titution	(V)
			1		1	1	1		
-10							* * *	1	
-20									
-30									
-40				, , ,	, , , , , , , , , , , , , , , , , , ,	, , , , , , , , , , , , , , , , , , ,		1 1 1	
40				1	1	1		1 1 1	
-50					1 ! !	<u>-</u>		1	
-60					₁			. = = ₁ = =	
-70				· · · · · · · · · · · · · · · · · · ·	1 1 1				
00			1		1			mmindhal	Mary
-80			M	mhymm	www.	/ha/livviviviviviv		1	
-90									
-100 20	00	300	400	500	600	700	800	900	1000 MHz
Result Limit	t: t kept			Project file: 56408-20824		Pag	ge of	f P	ages

	acc. to	FCC Part 74 Subpart H
Model: AW-8T Serial no.: new test sample Applicant: Sekaku Test site: Fully anechoic room, of tested on: Test distance 3 metres Horizontal Polarization Date of test: 04/17/2003 Test performed: automatically	S	Comment: - sending continously transmitter attached to microphone channel: 799.6 MHz with high pass filter: WHK/M3/13G-10SS
Detector: Peak  dBm 0	deldali.emi	List of values: 10 dB Margin 50 Subranges  Limit1: FCC §74.861 Transducer: Substitution (EMCO 3115)



56408-20824

Page

of

**Pages** 

Limit kept

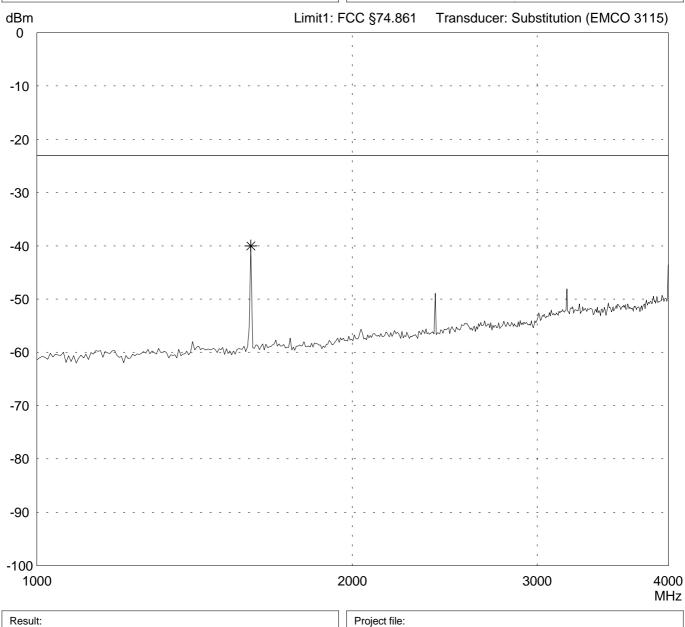
Model: AW-8T				
Serial no.: new test sample				
Applicant: Sekaku				
Test site: Fully anechoic room, cabin no. 2				
Tested on: Test distance 3 metres				
Horizontal Polarization  Date of test:	Operatori			
04/17/2003	Operator: M. Steindl			
Test performed: automatically	File name: default.emi			

Limit kept

Comment:

- sending continously
- -
- transmitter attached to microphone
- channel: 799.6 MHz
- _
- with high pass filter: WHK/M3/13G-10SS





56408-20824

Page

of

Model: AW-8T	
Serial no.: new test sample	
Applicant: Sekaku	
Test site: Fully anechoic room, cabi	in no. 2
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 04/17/2003	Operator: M. Steindl
Test performed: automatically	File name: default.emi

Limit kept

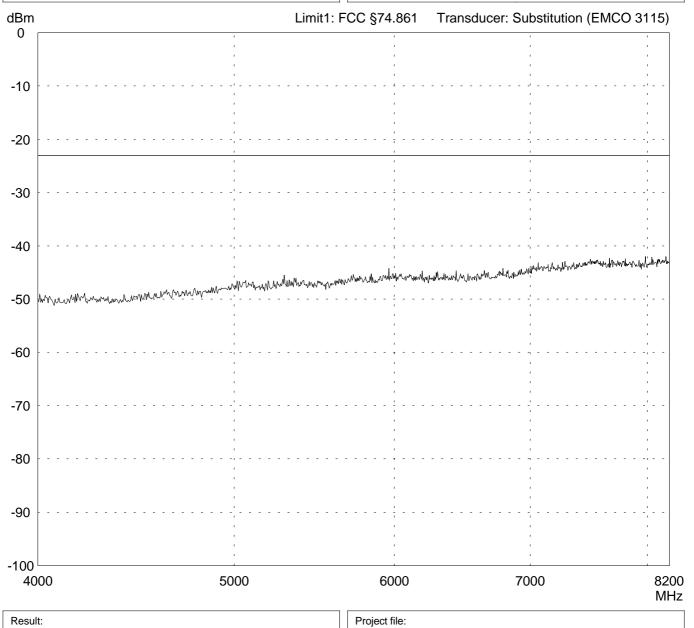
Comment:

- sending continously
- -
- transmitter attached to microphone
- channel: 799.6 MHz
- _
- with high pass filter: WHK/M3/13G-10SS

Detector:

Peak

List of values:
10 dB Margin
50 Subranges



56408-20824

Page

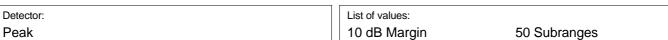
of

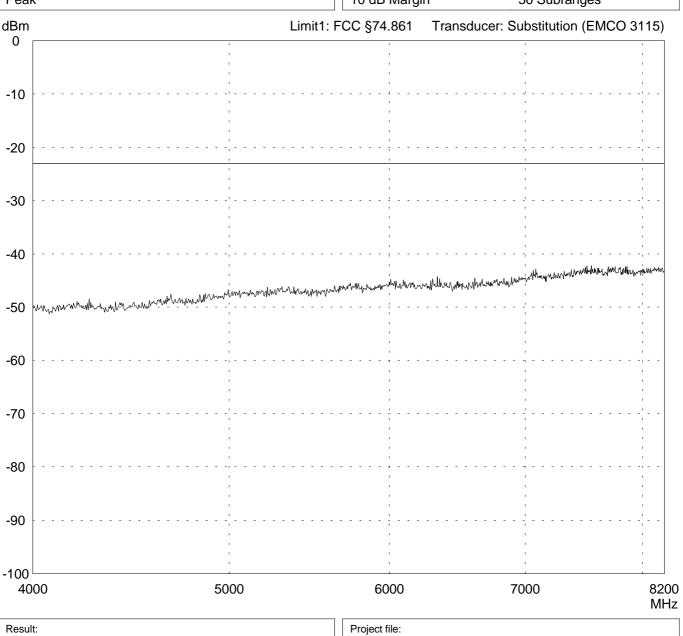
Model:		
AW-8T		
Serial no.:		
new test sample		
Applicant:		
Sekaku		
Test site:		
Fully anechoic room, cabi	n no. 2	
Tested on:		
Test distance 3 metres Vertical Polarization		
Date of test:	Operator:	
04/17/2003	M. Steindl	
Test performed:	File name:	
automatically	default.emi	

Limit kept

Comment:

- sending continously
- .
- transmitter attached to microphone
- channel: 799.6 MHz
- -
- with high pass filter: WHK/M3/13G-10SS





56408-20824

Page

of

Model						Comm	ent: Mode					
	Serial no.: new test sample				- - Channel: 804.300 MHz							
Applic	ant: ersal Techno	ologies Co.	Ldt.			-						
Test s	site:					-						
Fully	anechoic ro	om, cabin	no. 2			<u> </u>						
Test	distance 3 n zontal Polaria											
Date o			Operator:			-						
	8/2003 performed:		M. Steindl File name:			1						
	matically		default.em	ni								
Detec Peak							values: 3 Marg	in		50 Subran	ges	
dBm						1		C §74.86		nsducer: S		on (H)
0	1		1	1	1	1	1	1 1				
-10	1		1		1		1					
-10			1	1	1		1 1	1 1				
-20			· ·				· · · · · · · ·					
	1		1	1	1 1	1	1 1	1 1 1 1				
-30							· · · · · · · · · · · · · · · · · · ·					
	1		1 1	1	1		0 0 0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
-40												
	1		1 1	1	1 1		1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
-50						-1	- ( (					
	1		1	1	1	1	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
-60	₋ -				1	1	- ₁ 1					
70	1		1	1	1		1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
-70			1		1							
-80			1	, , 	1		1 1 - 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
00	1		1	1	1		1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
-90	\	_{-N} -	<u> </u>	\ <u>\</u> \\	Minne	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~	www.ww	MANNAMANA	www.www.northail.	لم علام المحارك المحرسات	www.w/r/w/
	,	^~J`	1	1	1 1		1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			Anta Anlie la Jilindan	
-100			1	1	1	1	1	1 1				
2	5		40	50	60	70	80 9	90 100				200 MHz
Resul	t: t kept					Projec	t file: 8-2082	14		Page	of	Pages

								1					
Mode AW-							ment:						
Serial						- 17	- TX-Mode -						
	test sample	)				- Channel: 804.300 MHz							
Applic													
		nologies Co.	Ldt.										
Test s Fully		oom, cabin	no. 2										
Teste													
	distance 3. ical Polariza												
	of test:		Operator:	ı									
	8/2003 performed:		M. Steind File name:	<u> </u>		1							
1	matically		default.en	ni									
Detec						l iet (	of values:						
Peal							dB Mar			50 Subra	inges		
dBm			Limit1: E	N 300 XX	X TX	Limit2	:: EN 3	00 XXX	( RX	Transducer:	Substitu	tion (V)	
-20	1		1	1	1	1	1	1					
-25													
20	1			1	1								
-30													
-35			<u> </u>			· -  <u>-</u>		· 					
	1		1	1	1		1	1					
-40					- '	:							
-45					- 1		1 1 1		'				
				1	1								
-50				- 1	-	:			<u>.</u>				
-55			L	<u>;</u>	<u>:</u> -1								
-33	1		1	1	1		-	-					
-60									' '				
0.5	1		1	1	1								
-65					1		1	1					
-70					- 1		- 1		,  ,				
-75													
70	1		1	1	1								
-80							- ' (' )	 M					
0.5				J. W. W.	~;_\\	~W.	,~~W\J\\ -~~W\J\\	: Ww	Mww	W [*] ~~ _{\\} \\ [*] ~\\\			
-85		~ ^ ^	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	,	1		(	1		M. A. J.	~\ _{\\\\} \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	MM.NAMA	
-90		~W	1	1	1	1	i i	1					
	25		40	50	60	70	80	90 10	00			200 MHz	
Resul							ect file:						
Limit	t kept					564	08-208	24		Page	of	Pages	

Model				Comment: - TX-Mode						
Serial	no.: test sample			- - Channel: 804.300 MHz						
Applicant: Universal Technologies Co. Ldt.				-						
Test s										
Teste										
03/2	of test: 8/2003 performed:	Operator: M. Steindl File name:								
1	matically	default.emi								
Detec Peak				List of values: 10 dB Margin	l	50 Su	branges			
dBm 0				Limit1: FCC	§74.861	Transduc	er: Subs	titution (H)		
Ü					1	1				
-10					1 1 1					
-20							¦ <del></del> #			
-30										
-40		, , ,	1		1 1 1	1				
-40					, , ,					
-50					·					
-60					 					
-70										
		, , ,	1	<u> </u>	1 1 1	Mu	manna	: John Marin		
-80		· · · · · · · · · · · · · · · · · · ·		~~NU~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Mminny	MMM	`-; <u>``</u>	Alinhan Men		
-90	h									
-100 20	00	300	400	500	600	700	800	900 1000		
Resul	t:			Project file:				MHz		
Pres	can			56408-20824		Pag	je of	Pages		

Resul				Project file:		Page	- (		lagos
-100 20	00	300	400	500	600	700	800	900	1000 MHz
		1			1 1 1 1	1	1 1 1 1	1	
-90			~~~\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	many in many	W 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	· · · · · · · · · · · · · · · · · · ·	1 1 1	1	
-80			, , ,	mmmmmmm		Marty James Marine J	MW	Many May May May May May May May May May Ma	rwin
-70									
-60					1 1 1 1 1	· · · · · · · · · · · · · · · · · · ·		,	
-50									
-40						<del>-</del>		,	
-30									
		1 1 1			1 1 1 1			1	
-20				, , ,	, , , ,	· · · · · · · · · · · · · · · · · · ·		1 1 1 - 1 1	
-10					, , , ,		<del>*</del>		
dBm 0		1		Limit1: FCC	9/4.861	Transduce	r: Subs	titution	(V)
Peal	k			10 dB Margin		50 Sub			0.0
Detec	omatically ctor:	default.emi		List of values:					
Test p	28/2003 performed:	M. Steindl File name:							
Date	of test:	Operator:							
	ed on: t distance 3 meters ical Polarization								
	y anechoic room, cabii	n no. 2							
	versal Technologies Co	o. Ldt.		-					
-	test sample			- Channel: 80	4.300 MH	Z			
AW-	-8T			- TX-Mode					
Mode	sj-			Comment:					

Model: AW-8T		Comment:	, 204 200 MHz	
Serial no.:		i ^ irequency	/ = 804.300 MHz	
New Sample				
Applicant: Sekaku Electron Industry	Co. Ltd.			
Test site:				
Fully anechoic room, cab	in no. 2			
Tested on: Test distance 3 metres				
Horizontal Polarization				
Date of test: 04/17/2003	Operator: J. Roidt			
Test performed:	File name:			
automatically	default.emi			
Detector: Peak		List of values: 10 dB Margir	n 50 Sub	ranges
dBm 0	Limit1:	FCC §74.861	Transducer: Substitut	
0		1	1 1	
40				
-10				
		1	1 1	
-20				
		1	1	
-30			<u>-</u> <u>-</u>	
		1	1 1	
-40			· · · · · · · · · · · · · · · · · · ·	
		1	1 1 1	
-50	h		Marman Marin	
		www.mm	Manual "	
-60	Maryaning was with a sail		<del></del>	
		1	1	
-70		'		
		1	1	
-80				
		1		
-90				
		1 1	 	
-100			<u> </u>	
1000		2000	3000	4000 MHz
Result:		Project file:		
Limit kept		56408-20824	Page	of Pages

		· ·		
Mode AW-		Comment: TX frequency =	804.300 MHz	
Serial New	no.: Sample			
Applio Seka	ant: aku Electron Industry Co. Ltd.			
Test s	ite:			
Fully	anechoic room, cabin no. 2			
Test	distance 3 metres cal Polarization			
Date o	of test: Operator: 7/2003 J. Roidt			
	performed: File name:			
	matically default.emi			
Detect Peal		List of values: Selected by har	nd	
dBm	`		ansducer: Substitution	(EMCO 3115)
0		1	1	
-10				
00		1	• • •	
-20				
-30				
-30		1 1 1	1 1	
-40	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	
		1 1 1	1 1	
-50		*		
			nammunalym	MMMM 1 4 4141
-60	- Air war war war war war war war war war wa	vimmy winner and a	· <del>,</del>	
-70				
-80				
-90				
		•		
-100	00	0000	2000	4000
10	UU	2000	3000	4000 MHz
Resul		Project file:		
Limit	t kept	56408-20824	Page	of Pages

Model			Comment: TX frequency = 804	.300 MHz	
Serial New	no.: Sample				
Applic Seka	cant: aku Electron Industry Co. Ltd.				
Test s Fully	site: v anechoic room, cabin no. 2				
Teste					
	distance 3 metres zontal Polarization				
Date of	of test: Operator:				
04/1	7/2003 J. Roidt				
Test p	performed: File name:				
auto	matically default.emi				
Detec Peak			List of values: 10 dB Margin	50 Subranges	
dBm		mit1: F	_	ducer: Substitution (EM	ICO 3115)
0			1	- I	1
			1	1 1	1
-10					
-20					
			1 1	1	1
-30			<u>.</u>		
	:		1		1
-40					', ا مالحات السامات
	March - crathymannon commence my may be have a more and the commence of the co	المالميد مينا	January Januar	Morandonalarana / Madala / Morandonarana	N.AlkorevArtorithisten and
-50	March - worth from march of the march of the second of the				
				' !	,
-60					
-00			· • •	1 1	1
				1 0	1
-70					
				1	1
-80					
			1	1	1
				1	1
-90					
				1	
-100			I .	i J	1
40	5000		6000	7000	8200 MHz
Resul	t:		Project file:		
	t kept		56408-20824	Page of	Pages

Model			Comment: TX frequency = 804.	300 MHz	
Serial New	no.: Sample		, ,		
Applio Seka	ant: aku Electron Industry Co. Ltd.				
Test s Fully	site: v anechoic room, cabin no. 2				
Teste Test	d on: distance 3 metres				
	cal Polarization				
	of test: Operator: 7/2003 J. Roidt				
	performed: File name: matically default.emi				
Detec	tor:		List of values:		
Peak			10 dB Margin	50 Subranges	
dBm 0		mit1: F	CC §74.861 Transo	lucer: Substitution (EM	ICO 3115)
				1 1 1	1
-10					
-20					
-30					
-30			:	1 1 1	
-40					
	Maynan Mannan Ma	luhynull	what was proposed by the Market was a superfection of the market was a superfection of the superfection of	Monther March Marc	partitoly represented my represent
-50	Mayanan Mananda Manand				
				1 1	
-60	,		· · · · · · · · · · · · · · · · · · ·		
-70	 				
	1				
-80					
			:		
-90					
-100				1	
40	00 5000		6000	7000	8200 MHz
Resul	t: t kept		Project file: 56408-20824	Page of	Pages
<b>∟</b>	ι πορι		JU4UU4ZUUZ4	rayt 01	rayes