

Prüfbericht - Nr.: 16012002 001 <i>Test Report No.:</i>		Seite 1 von 20 <i>Page 1 of 20</i>	
Auftraggeber: <i>Client:</i>		Seikaku Technical Group Limited. Offshore Chambers, P.O. Box. 217 Apia, Samoa	
Gegenstand der Prüfung: Wireless Microphone Receiver <i>Test item:</i>			
Bezeichnung: <i>Identification:</i>	MOD-800R, AU-800R	FCC ID: <i>FCC ID</i>	H38MODAU-800R
Wareneingangs-Nr.: <i>Receipt No.:</i>	173028719	Eingangsdatum: <i>Date of receipt:</i>	18.02.2008
Prüfart: <i>Testing location:</i>	TÜV Rheinland (Guangdong) Ltd. EMC Laboratory Guangzhou Auto Market, Yuan Gang Section of Guangshan Road, Guangzhou 510650, P. R. China	Listed test laboratory according to FCC rules section 2.948 for measuring devices under Parts 15	
Prüfgrundlage: <i>Test specification:</i>	ANSI C63.4:2003 FCC Part 15: 20, Sep. 2007 Subpart B section 15.107, 15.109 and 15.121		
Prüfresultat: <i>Test Result:</i>	Der Prüfgegenstand entspricht oben genannter Prüfgrundlage(n). <i>The test item passed the test specification(s).</i>		
Prüflaboratorium: <i>Testing Laboratory:</i>	TÜV Rheinland (Guangdong) Ltd.		
geprüft/ tested by:		kontrolliert/ reviewed by:	
08. Apr. 2008 Ricky Liu /Project Manager Datum Name/Stellung Unterschrift Date Name/Position Signature		08. Apr. 2008 Liangdong Xie /Project Manager Datum Name/Stellung Unterschrift Date Name/Position Signature	
Sonstiges/ Other Aspects:			
Abkürzungen: P(ass) = entspricht Prüfgrundlage F(ail) = entspricht nicht Prüfgrundlage N/A = nicht anwendbar N/T = nicht getestet		Abbreviations: P(ass) = passed F(ail) = failed N/A = not applicable N/T = not tested	
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.</i>			

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TEST SUMMARY

5.1 CONDUCTED EMISSION FOR FCC PART 15 PER SECTION 15.107(A)

RESULT: Pass

5.2 RADIATED EMISSION FOR FCC PART 15 PER SECTION 15.109(A)

RESULT: Pass

5.3 38 dB REJECTION SIGNAL FROM CELLULAR FREQUENCY BAND 15.121(B)

RESULT: Pass

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1 General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix 1: Test result

2 Test Sites

2.1 Test Facilities

TÜV Rheinland (Guangdong) Ltd. EMC Laboratory

Guangzhou Auto Market, Yuan Gang Section of Guangshan Road
Guangzhou 510650

P. R. China

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Kind of Equipment	Type	Manufacturer	S/N	Calibrated until	Calibrated Interval
EMI Test Receiver	ESCI-3	Rohde & Schwarz	100216	26.Nov.2008	1 year
Spectrum Analyzer	FSP30	Rohde & Schwarz	100286	24.Aug.2008	1 year
Trilog-Broadband Antenna	VULB9168	SCHWARZBECK MESS-ELEKTRONIK	210	08.May.2009	2 year
Double-Ridged Waveguide Horn Antenna	HF906	Rohde & Schwarz	100385	18.Jul.2009	2 year
Double-Ridged Waveguide Horn Antenna	HF906	Rohde & Schwarz	100407	08.May.2009	2 year
Pre-amplifier	AFS42- 00101800- 25-S-42	MITEQ	1101599	31.Jul.2009	2 year
Band Reject Filter	BRM50702	Micro-Tronics	023	15.Feb.2010	2 year
Standard Gain Horn Antenna	3160-09	EMCO	21642	N/A	2 year
Standard Gain Horn Antenna	3160-09	EMCO	21645	N/A	2 year
Pre-amplifier	AFS33- 18002650- 30-8P-44	MITEQ	1108282	31.Jul.2009	2 year
3m Anechoic Chamber	N/A	Albatross Project GmbH	N/A	16.Apr.2008	2 year
EMI Test Receiver	ESCS30	Rohde & Schwarz	100316	27.Mar.2009	1 year
Two-Line V-Network	ESH3-Z5	Rohde & Schwarz	100308	27.Mar.2009	1 year
Pulse Limiter	ESH3-Z2	Rohde & Schwarz	100701	01.Mar.2009	1 year

2.3 Trace ability

All measurement equipment calibrations are traceable to NIST or where calibration is performed outside the United States, to equivalent nationally recognized standards organizations

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2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

Uncertainty for conducted emissions measurements is ± 2.51 dB.

Uncertainty for radiated emissions measurements is ± 4.9 dB (30MHz-1GHz), ± 4.84 dB (>1GHz).

The reported expanded uncertainty is based on a standard uncertainty multiply by a coverage factor $k=2$, providing a level of confidence of approximately 95%.

2.6 Location of original data

The original copies of all test data taken during actual testing were attached at Appendix 1 of this report and delivered to the applicant. A copy has been retained in the TUV Rheinland (Guangzhou) file for certification follow-up purposes.

2.7 Status of facility used for testing

TÜV Rheinland (Guangdong) Ltd. EMC Laboratory; Guangzhou Auto Market, Yuan Gang Section of Guangshan Road, Guangzhou 510650, P. R. China is listed on the US Federal Communications Commission list of facilities approved to perform measurements, the register no. 833845

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3 General Product Information

The submitted samples are wireless microphones receivers operating within the frequency range of 740 MHz to 769 MHz. They are powered by AC/DC adaptor.

The receiving frequency can be selected manually or auto-tuned at one frequency point at any time.

There are 2 models in this report in total. They are **AU-800R** and **MOD-800R**

AU-800R is identical to **MOD-800R** except that a tone adjust knob is added in the front panel of the **MOD-800R**.

Please refer to Technical Documentation and User Manual for further details.

Based on above mentioned information, all necessary tests are performed on **MOD-800R** only.

3.1 Product Function and Intended Use

For details, refer to User Manual.

3.2 Ratings and System Details

Frequency range	:	740 – 769 MHz
Nominal Operating frequencies	:	Refer to the Frequency List below
Type of antenna	:	Dedicate antenna with specified interface
FCC ID:		H38MODAU-800R
Power supply	:	DC 15V, 500mA from AC/DC adaptor;
Ports	:	DC power input
Protection Class	:	III

Frequency Range and Channel List

	Group1	Group2	Group3	Group4	Group5	Group6	Group7	Group8	Group9	Group10	Group11	Group12
1	740.125	740.325	740.525	740.725	740.925	741.125	741.325	741.525	741.725	741.925	742.125	742.325
2	742.525	742.725	742.925	743.125	743.325	743.525	743.725	743.925	744.125	744.325	744.525	744.725
3	744.925	745.125	745.325	745.525	745.725	745.925	746.125	746.325	746.525	746.725	746.925	747.125
4	747.325	747.525	747.725	747.925	748.125	748.325	748.525	748.725	748.925	749.125	749.325	749.525
5	749.725	749.925	750.125	750.325	750.525	750.725	750.925	751.125	751.325	751.525	751.725	751.925
6	752.125	752.325	752.525	752.725	752.925	753.125	753.325	753.525	753.725	753.925	754.125	754.325
7	754.525	754.725	754.925	755.125	755.325	755.525	755.725	755.925	756.125	756.325	756.525	756.725
8	756.925	757.125	757.325	757.525	757.725	757.925	758.125	758.325	758.525	758.725	758.925	759.125
9	759.325	759.525	759.725	759.925	760.125	760.325	760.525	760.725	760.925	761.125	761.325	761.525
10	761.725	761.925	762.125	762.325	762.525	762.725	762.925	763.125	763.325	763.525	763.725	763.925
11	764.125	764.325	764.525	764.725	764.925	765.125	765.325	765.525	765.725	765.925	766.125	766.325
12	766.525	766.725	766.925	767.125	767.325	767.525	767.725	767.925	768.125	768.325	768.525	768.725

Refer to the technical document and user manual for further information.

3.3 Independent Operation Modes

The basic operation modes are:

- Receiving with freq. adjustable manually
- Receiving with auto scanning frequency

For further information refer to User Manual

3.4 Submitted Documents

- Block Diagram
- Circuit Diagram
- PCB Layout
- FCC Label
- User Manual
- Photo Document

4 Test Set-up and Operation Mode

4.1 Principle of Configuration Selection

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Refer to Test set-up in chapter 5.

4.3 Special Accessories and Auxiliary Equipment

The product has been tested together with the following linear AC/DC adaptor:

Adaptor:

Input : AC 120V, 60Hz
Output : DC 15V / 500mA
Protection class : II

4.4 Countermeasures to achieve EMC Compliance

The test sample, which has been tested, contained the noise suppression parts as described in the Constructional Data Form or the Technical document. No additional measures were employed to achieve compliance.

4.5 Test set-up

Diagram 1 of Measurement Equipment Configuration for Testing Conducted Emission

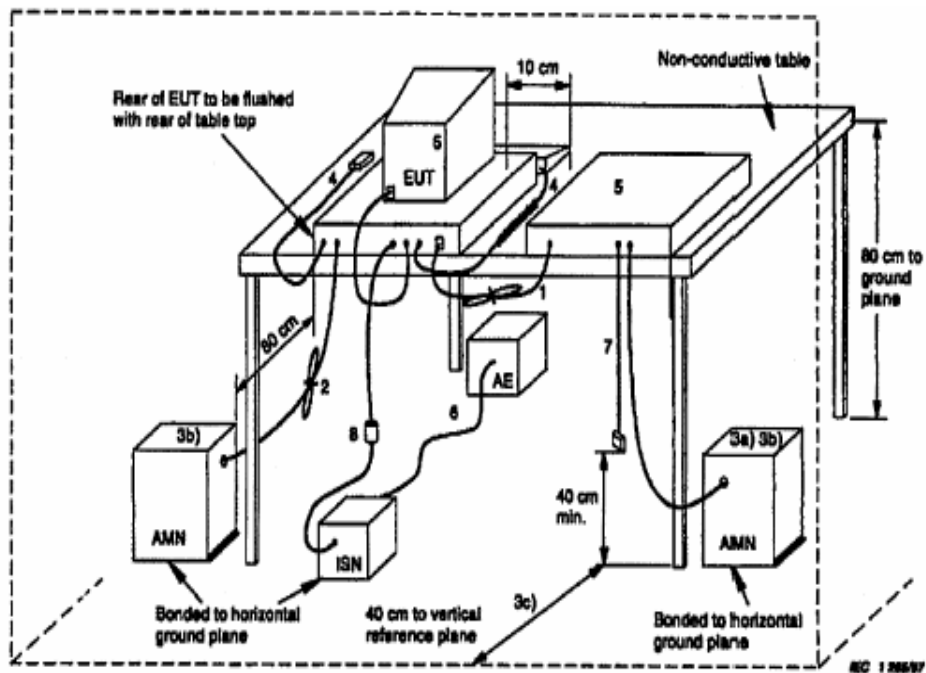


Diagram 2 of Measurement Equipment Configuration for Testing Radiated Emission

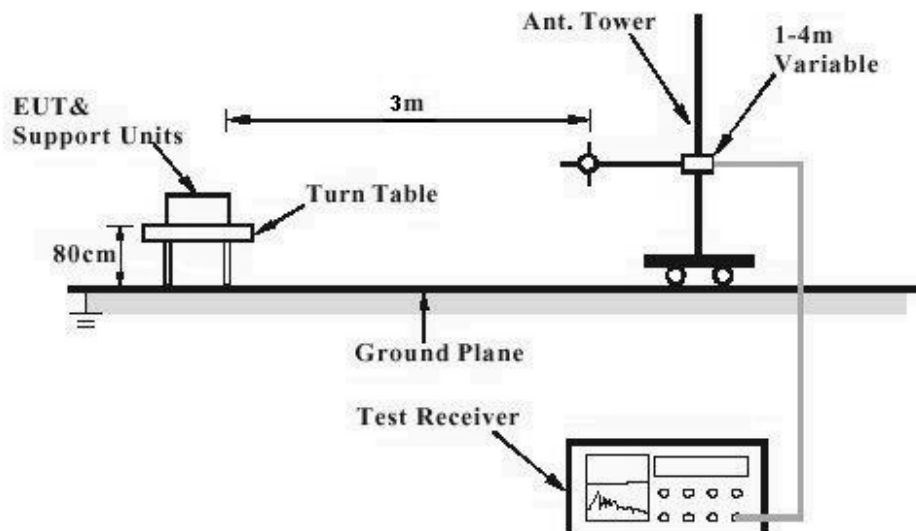


Diagram 3 of Equipment Configuration for Testing Conducted Emission

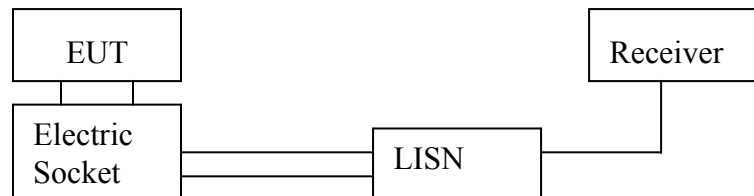
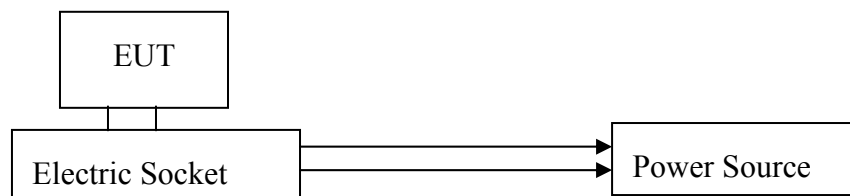


Diagram 4 of Equipment Configuration for Testing Radiated Emission



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5 Test Results EMISSION

5.1 Conducted Emission for FCC Part 15 Per Section 15.107(a)

RESULT:

Pass

Date of testing	:	03.02.2008
Test specification	:	FCC Part 15 Per Section 15.107(a)
Limits	:	FCC Part 15 Per Section 15.107(a)
Test procedure	:	Procedure specified in ANSI C63.4 were followed
Deviations from Standard Test procedures	:	None
Kind of test site	:	Shielded room
Operation mode	:	Receiving (powered by linear AC/DC adaptor)
Temperature	:	20°C
Humidity	:	45%

Test procedure:

1. Place the EUT as specified in ANSI C63.4 Clause 7.2.1
2. Plug the LISN to a correct power source (pay attention to: AC/DC, voltage, frequency).
4. Connect the EUT to LISN and choose N or L1 on the LISN.
5. Connect ESCS30 and LISN via a 50-ohm coaxial cable and a pulse limiter then begin exploratory measurement as specified in ANSI C63.4 Clause 7.2.3
6. Make final measurement as specified in ANSI C63.4 Clause 7.2.4
7. Switch to the other line on the LISN and repeat step 4 to 6.

If the result of the measurement with the Quasi Peak detector is below the Average limit, the measurement with Average Detector may be omitted.
The spectral diagrams in Appendix 1 display the exploratory measurement of un-weighted peak values and average values.

*) Disturbances other than those mentioned below are small or not detectable.

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Table 2: Disturbance Voltage on AC Mains of MOD-800R (L1 line)

Final Measurement Detector 1

Frequency (MHz)	QuasiPeak (dB μ V)	Meas. Time (ms)	Bandwidth (kHz)	Line
0.360000	39.2	1000.000	9.000	L1
0.365000	38.8	1000.000	9.000	L1
0.725000	20.5	1000.000	9.000	L1
1.430000	17.0	1000.000	9.000	L1
2.530000	11.3	1000.000	9.000	L1
7.935000	14.2	1000.000	9.000	L1
23.090000	15.1	1000.000	9.000	L1

(continuation of the "Final Measurement Detector 1" table from column 6 ...)

Frequency (MHz)	Corr. (dB)	Margin (dB)	Limit (dB μ V)	Comment
0.360000	10.2	19.6	58.7	
0.365000	10.2	19.8	58.6	
0.725000	10.1	35.5	56.0	
1.430000	10.3	39.0	56.0	
2.530000	10.3	44.7	56.0	
7.935000	10.7	45.8	60.0	
23.090000	11.8	44.9	60.0	

Final Measurement Detector 2

Frequency (MHz)	Average (dB μ V)	Meas. Time (ms)	Bandwidth (kHz)	Line
0.360000	20.9	1000.000	9.000	L1
0.455000	12.7	1000.000	9.000	L1
1.395000	9.6	1000.000	9.000	L1
4.985000	9.8	1000.000	9.000	L1
8.005000	11.0	1000.000	9.000	L1
24.985000	12.2	1000.000	9.000	L1

(continuation of the "Final Measurement Detector 2" table from column 6 ...)

Frequency (MHz)	Corr. (dB)	Margin (dB)	Limit (dB μ V)	Comment
0.360000	10.2	27.8	48.7	
0.455000	10.1	34.1	46.8	
1.395000	10.3	36.4	46.0	
4.985000	10.5	36.2	46.0	
8.005000	10.6	39.0	50.0	
24.985000	11.8	37.8	50.0	

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Table 3: Disturbance Voltage on AC Mains of MOD-800R (N line)

Final Measurement Detector 1

Frequency (MHz)	QuasiPeak (dB μ V)	Meas. Time (ms)	Bandwidth (kHz)	Line
0.355000	43.4	1000.000	9.000	N
0.365000	43.1	1000.000	9.000	N
0.890000	27.1	1000.000	9.000	N
1.870000	19.4	1000.000	9.000	N
2.315000	13.1	1000.000	9.000	N
3.210000	15.4	1000.000	9.000	N
3.830000	14.5	1000.000	9.000	N
24.045000	15.0	1000.000	9.000	N

(continuation of the "Final Measurement Detector 1" table from column 6 ...)

Frequency (MHz)	Corr. (dB)	Margin (dB)	Limit (dB μ V)	Comment
0.355000	10.1	15.5	58.8	
0.365000	10.1	15.6	58.6	
0.890000	10.1	28.9	56.0	
1.870000	10.1	36.6	56.0	
2.315000	10.2	42.9	56.0	
3.210000	10.3	40.6	56.0	
3.830000	10.3	41.5	56.0	
24.045000	11.5	45.0	60.0	

Final Measurement Detector 2

Frequency (MHz)	Average (dB μ V)	Meas. Time (ms)	Bandwidth (kHz)	Line
0.345000	22.2	1000.000	9.000	N
0.480000	20.5	1000.000	9.000	N
0.930000	11.3	1000.000	9.000	N
4.960000	9.8	1000.000	9.000	N
8.010000	10.9	1000.000	9.000	N
24.450000	11.9	1000.000	9.000	N

(continuation of the "Final Measurement Detector 2" table from column 6 ...)

Frequency (MHz)	Corr. (dB)	Margin (dB)	Limit (dB μ V)	Comment
0.345000	10.1	26.9	49.1	
0.480000	10.1	25.9	46.3	
0.930000	10.1	34.7	46.0	
4.960000	10.3	36.2	46.0	
8.010000	10.5	39.1	50.0	
24.450000	11.5	38.1	50.0	

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5.2 Radiated Emission for FCC Part 15 Per Section 15.109(a)

RESULT:

Pass

Date of testing	:	29.01.2008
Test specification	:	FCC Part 15 Per Section 15.109(a)
Limits	:	FCC Part 15 Per Section 15.109(a)
Test procedure	:	Procedure specified in ANSI C63.4 were followed
Deviations from Standard Test procedures	:	None
Kind of test site	:	3m Semi-anechoic chamber
Operation mode	:	Receiving
Temperature	:	20°C
Humidity	:	45%

Test procedure:

1. The EUT was turned on and placed on the top of a rotatable table 0.8 meters above the ground with 3-orthogonal XYZ direction and be kept close enough to the measurement receiving antenna (especially for the measurement frequency range above 1 GHz). The table was then rotated 360 degrees to detect the suspected emission frequency points. The position of the worst radiation case with both horizontal and vertical receiving antenna polarization was then recorded together with the suspected emission frequency points above-mentioned.
2. The EUT was then set 3 meters away from the receiving antenna, which was mounted on a variable-height antenna tower.
3. For each suspected emission frequency point recorded in step 1, the EUT was arranged to its worst case that the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to read the maximum emission.

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Table 4: Radiated Emission of MOD-800R

Frequency	QP	AV	PK	Corr. Factor	Polarity	Limit		
						QP	AV	PK
[MHz]	[dB μ V/m]			(dB)	(H/V)	[dB μ V/m]		
*)---								

*) Disturbances are far below the limit. Please refer to the Appendix 1 for the noise floor measured maximum among high, mid and low receiving channel.

The final measurement for frequencies below 1000MHz is performed with Quasi Peak detector; the final measurement for frequencies above 1000MHz is performed with Average and Peak detector.

The limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit applicable to the equipment under test.

The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz at frequency below 1GHz.

The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz at frequency above 1GHz.

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5.3 38 dB rejection signal from Cellular Frequency band

RESULT:

Pass

Date of testing : 29.01.2008
Test specification : FCC Part 15 Per Section 15.121(b)
Limit : FCC Part 15 Per Section 15.121(b)
Operation mode: Receiving with auto scanning activated
Kind of test site : Shielded room
Test signal : RF signal FM at 1kHz audio

Test procedure:

1. Set the wanted signal to establish reference sensitivity (12dB SINAD), the level of wanted signal input was recorded as reference level.
2. Inject unwanted cellular signal into the EUT and increase the unwanted signal lever until the SINAD is reached 12dB or its level is 41dB (add 3dB margin with the 38dB rejection) higher than the reference level recorded in step 1.
3. Record the level of the unwanted mobile signal relative to the reference in step 1. The result is the rejection level in dB.
4. Repeat test steps 2-3 for other cellular frequencies.

Table 5: 38 dB Rejection

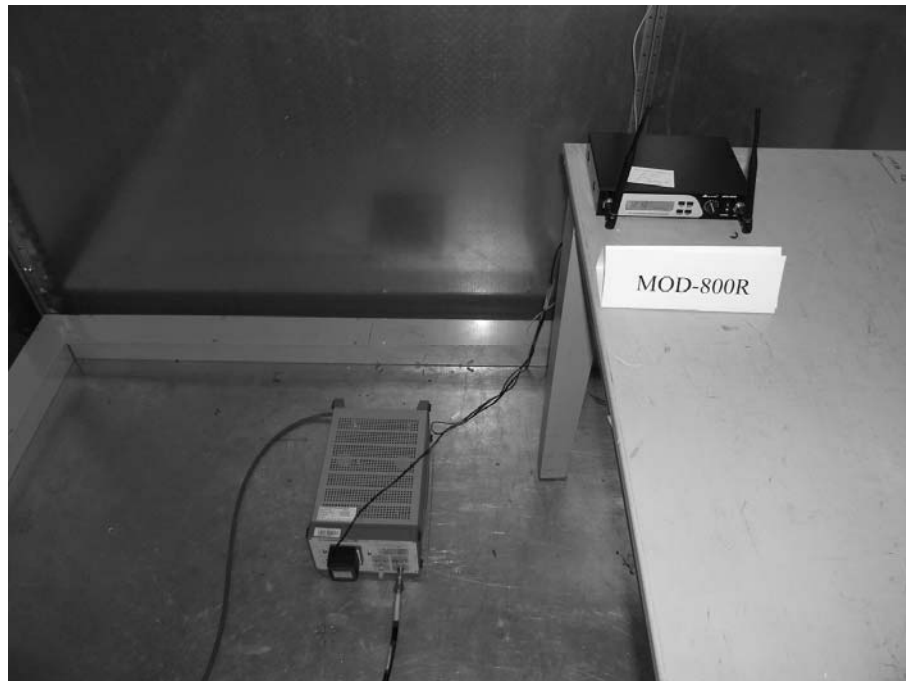
Injection frequency(Cellular) in MHz	Rejection in dB	Limit in dB
824.04	>41	38
836.00	>41	38
848.97	>41	38
869.04	>41	38
881.00	>41	38
893.97	>41	38

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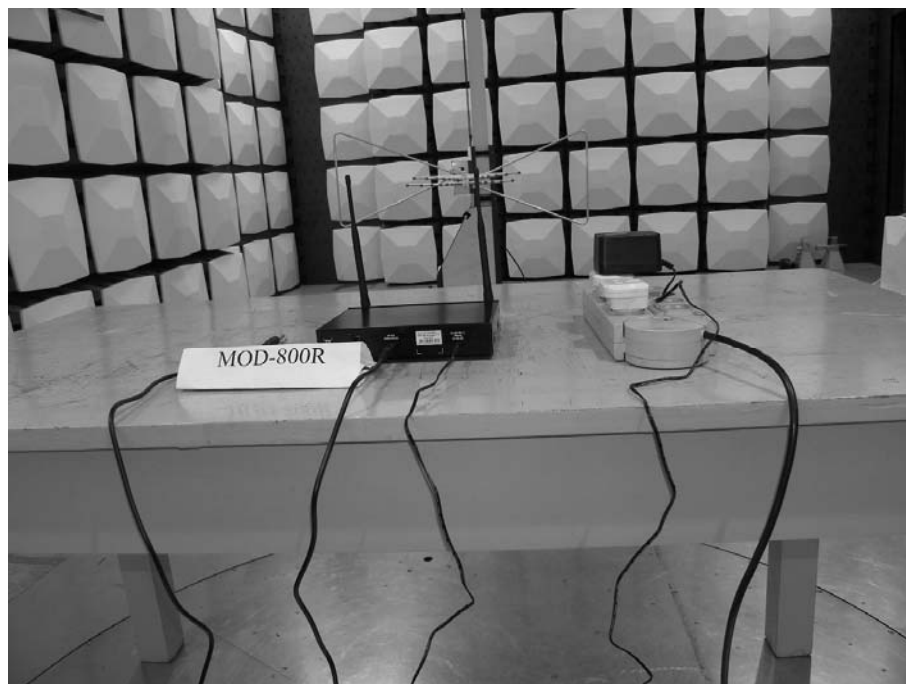
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6 Photographs of the Test Set-Up

Photograph 1: Set up for Conducted Emission on AC Mains



Photograph 2: Set-up for Radiation Measurement Below 1GHz



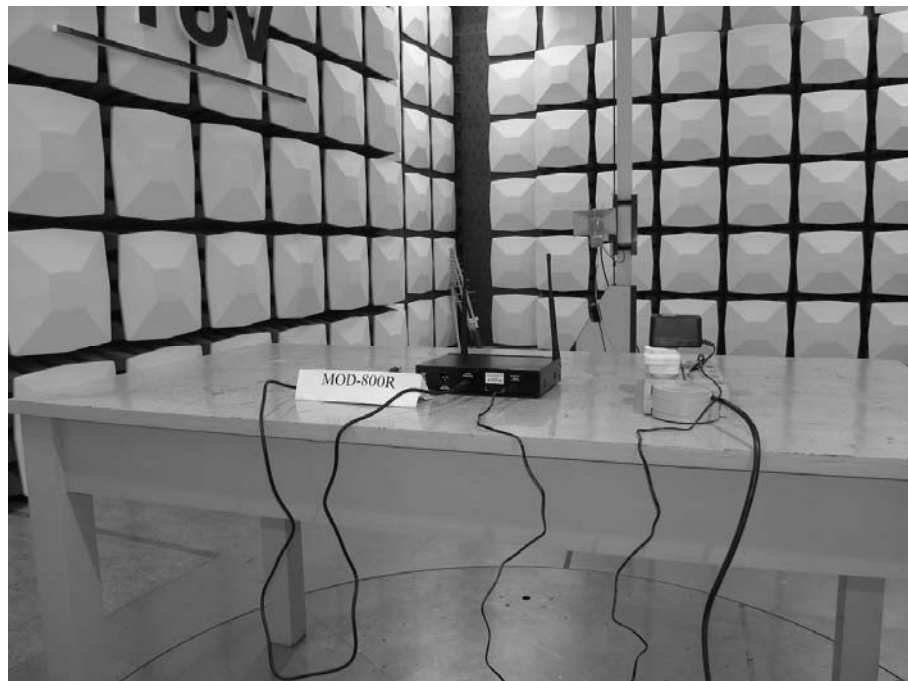
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Photograph 3: Set-up for Radiation Measurement Above 1GHz



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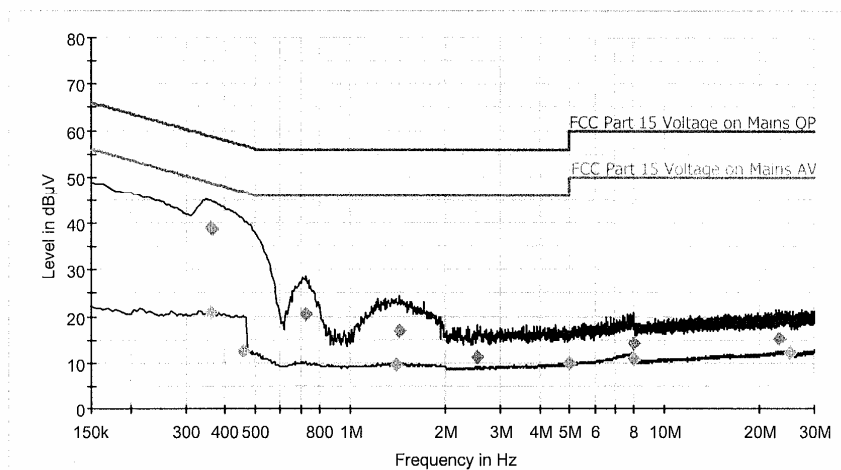
EMC32 Report

Test Information

Manufacturer Name: SEKAKU
Model Number: MOD-800R
Operating Conditions: On
Comment: AC 110V 60Hz; L1

Hardware Setup: 1phase LISN ESH3-Z5 to ESCS30
Level Unit: dB μ V

Subrange	Detectors	IF Bandwidth	Step Size	Meas. Time	Receiver
150kHz - 30MHz	Peak; Average	9kHz	4.5kHz	10ms	ESCS 30



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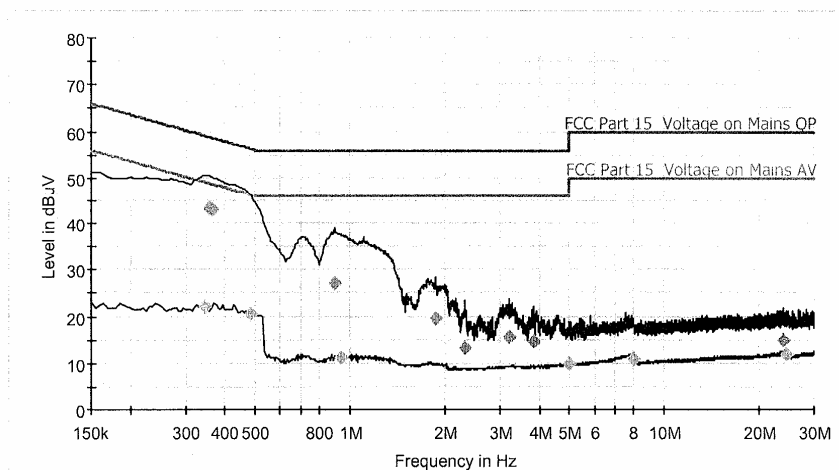
EMC32 Report

Test Information

Manufacturer Name: SEKAKU
Model Number: MOD-800R
Operating Conditions: On
Comment: AC 110V 60Hz; N

Hardware Setup: 1phase LISN ESH3-Z5 to ESCS30
Level Unit: dB μ V

Subrange	Detectors	IF Bandwidth	Step Size	Meas. Time	Receiver
150kHz - 30MHz	Peak; Average	9kHz	4.5kHz	10ms	ESCS 30



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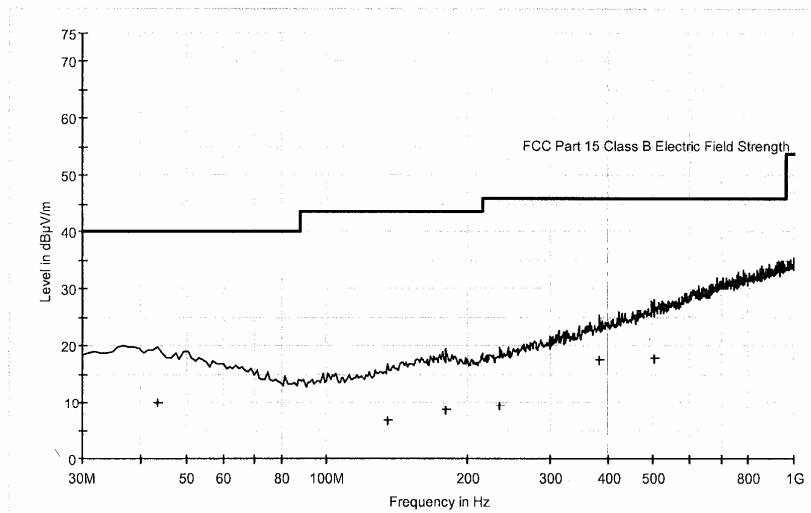
EMC32 Report

Test Information

Manufacturer Name:	SEKAKU
Model Number:	MOD-800R
Operating Conditions:	On
Comment:	Horizontal,

Subrange 1

Frequency Range:	30MHz - 1GHz
Receiver:	TUV ESCI 3
Transducer:	TUV SAC UVLB 9168 / TUV ESCI3 -TUV SAC UVLB 9168



Prüfbericht - Nr.:
Test Report no.

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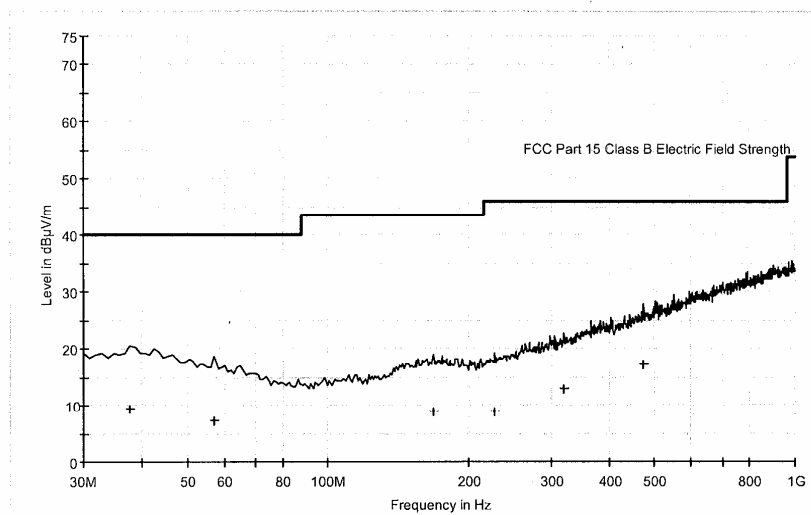
EMC32 Report

Test Information

Manufacturer Name:	SEKAKU
Model Number:	MOD-800R
Operating Conditions:	On
Comment:	Vertical

Subrange 1

Frequency Range:	30MHz - 1GHz
Receiver:	TUV ESCI 3
Transducer:	TUV SAC UVLB 9168 / TUV ESCI3 -TUV SAC UVLB 9168



Prüfbericht - Nr.:
Test Report no.

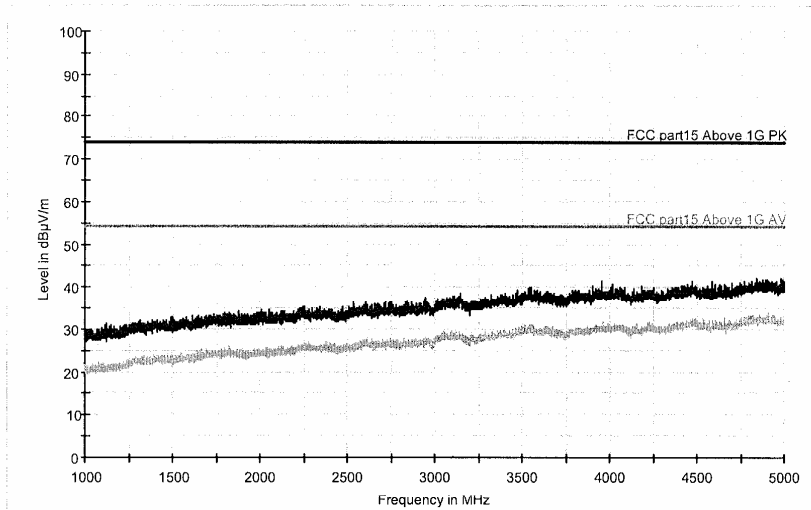
16012002 001

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Test Information

Manufacturer Name: SEKAKU
Model Number: MOD-800R
Operating Conditions: On
Comment: Horizontal,

Subrange 1
Frequency Range: 1GHz - 5GHz
Receiver: TUV FSP 30
Transducer: TUV SAC HF906 / TUV FSP 30-TUV SAC HF906



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Test Information

Manufacturer Name: SEKAKU
Model Number: MOD-800R
Operating Conditions: On
Comment: Vertical

Subrange 1
Frequency Range: 1GHz - 5GHz
Receiver: TUV FSP 30
Transducer: TUV SAC HF906 / TUV FSP 30-TUV SAC HF906

