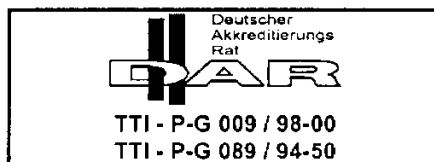


FCC ID: PENASAT1



EMISSION -- TESTREPORT

Testreport file no. : T18173-1-20KG Date : Dec. 18, 2000
of issue

Model : ASAT1

Type : Door/Trunk Oscillator

Applicant : AISIN SEIKI CO., Ltd.

Manufacturer : AISIN SEIKI Co., Ltd.

Licence holder : AISIN SEIKI Co., Ltd.

Address : 2-1 Asahi-machi, Kariya
 Aichi, 448-8650 Japan

Test result accordg.
to the regulation(s)
at page 3

POSITIVE

This testreport with appendix consists of 31 pages.
The testresult only responds to the tested sample. It is not allowed to copy
this report even partly without the allowance of the testlaboratory.

File No. T18173-1-20KG , Page 1 of 15

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TEST REGULATIONS

The tests were performed according to following regulations :

- o - EN 50081-1 / 2.1991
- o - EN 50081-2 / 7.1993

- | | | |
|--------------------------------|--------------------------------------|-------------|
| o - EN 55011 / 3.1991 | o - Group 1 | o - Group 2 |
| | o - class A | o - class B |
| o - EN 55014 / 4.1993 | o - Household appliances and similar | |
| | o - tools | |
| | o - Semiconductor devices | |
| o - EN 55014 / A2:1990 | | |
| o - EN 55104 / 5.1995 | Category: | |
| o - EN 55015 / A1:1990 | | |
| o - EN 55015 / 12.1993 | | |
| o - EN 55022 / 5.1995 | o - class A | o - class B |
| o - prEN 55103-1/ 3.1995 | | |
| o - prEN 50121-3-2 / 3.1995 | | |
| o - EN 60601-1-2 / 4.1994 | | |
| o - VCCI | o - class 1 | o - class 2 |
| ■ - Part 15 Subpart C (15.209) | | |

ADDRESS OF THE TEST LABORATORY

- - MIKES PRODUCT SERVICE GmbH
Ohmstrasse 2-4
D - 94342 Strasskirchen

○ - _____

ENVIRONMENTAL CONDITIONS

Temperature: 15-35 ° C
Humidity 45-60 %
Atmospheric pressure 860-1060 mbar

POWER SUPPLY SYSTEM UTILIZED

Power supply system : Battery DC 12.0V

STATEMENT OF MEASUREMENT UNCERTAINTY

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities that can account for a nominal measurement error of ± 4 dB. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

SHORT DESCRIPTION OF THE EQUIPMENT UNDER TEST (EUT)

The Door/Trunk Oscillator is fixed installed in a vehicle and is a part of the vehicle security system.

Number of received/tested samples: 2/2

DEFINITIONS FOR SYMBOLS USED IN THIS TEST REPORT

- - Black box indicates that the listed condition, standard or equipment is applicable for this Report.
- - Blank box indicates that the listed condition, standard or equipment was not applicable for this Report.

M E A S U R E M E N T P R O T O C O L F O R F C C , V C C I
A N D A U S T E L

Test Methodology

Conducted and radiated emission testing is performed according to the procedures in International Special Committee on Radio Interference (CISPR) Publication 22 (1993), European Standard EN 55022 and Australian Standard AS 3548 (which are based on CISPR 22).

The Japanese standard, "Voluntary Control Council for Interference (VCCI) by Data Processing Equipment and Electronic Office Machines, Technical Requirements" is technically equivalent to CISPR 22 (1993). For official compliance, a conformance report must be sent to and accepted by the VCCI.

In compliance with FCC Docket 92-152, "Harmonization of Rules for Digital Devices Incorporate International Standards", testing for FCC compliance may be done following the ANSI C63.4-1992 procedures and using the FCC limits or the CISPR 22 Limits.

Measurement Error

The test system for conducted emissions is defined as the LISN, tuned receiver and coaxial cable. The test system for spurious emissions is defined as the antenna, the pre-amplifier, the tuned receiver and the coaxial cable. These test systems have an expected error of ± 3 dB. The equipment comprising the test systems are calibrated on an annual basis.

Justification

The Equipment Under Test (EUT) is configured in a typical user arrangement in accordance with the manufacturer's instructions. A cable is connected to each available port and either terminated with a peripheral into its characteristic impedance or left unterminated. When appropriate, the cables are manually manipulated with respect to each other to obtain maximum emissions from the unit.

General Standard Information

The test methods used comply with CISPR Publication 22 (1993), EN 55022 (1987) and AS 3548 (1992) - "Limits and Methods of Measurement of Radio Interference Characteristics of Information Technology Equipment" and with ANSI C63.4-1992 - "Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz."

For detailed description of each measurement please refer to section testresults.

DISCOVERY OF WORST CASE MEASUREMENT CONDITION:

The Door/Trunk Oscillator is designed for the operation on the fixed transmitter frequency of approx. 134.2 kHz.

To find out the worst case conditions for the complete measurement the following tests have been performed:

- Measurement of the radiated fieldstrength of the operating frequency measured in permanent operation mode in the specified channel. This measurement have been performed in order to find out the maximum transmitted fieldstrength of the Amplifier.
- Measurement of the radiated spurious emissions measured in permanent operation mode in the specified channel. This measurement have been performed in order to find out the maximum spurious emissions of the Amplifier.

Based on this testresults, the measurements have been performed completely on the specified channel. This testresults are documented in the following sections of the testreport.

T E S T R E S U L TCONDUCTED EMISSIONS - 10/150 kHz - 30 MHz**■ - Test not applicable****Testlocation :**

- o - Shielded room no. 1
- o - Shielded room no. 2
- o - Shielded room no. 3
- o - Shielded room no. 4
- o - Shielded room no. 5
- o - Shielded room no. 6
- o - Shielded room no. 7
- o - Anechoic chamber
- o - Full compact chamber

For TEST EQUIPMENT USED please refer to ATTACHMENT D: _____

Description of Measurement

The final level, expressed in dBµV, is arrived at by taking the reading directly from the EMI receiver. This level is compared directly to the FCC Limit or to the CISPR limit, which is equivalent to the Australian AS 3548 limit.

To convert between dBµV and µV, the following conversions apply:

$$\text{dB}\mu\text{V} = 20(\log \mu\text{V})$$

$$\mu\text{V} = \text{Inverse log}(\text{dB}\mu\text{V}/20)$$

Conducted emissions on the 50 Hz and/or 60 Hz power interface of the EUT are measured in the frequency range of 150 kHz to 30 MHz. The measurements are performed using a receiver, which has CISPR characteristic bandwidth and quasipeak detection, and a Line Impedance Stabilization Network (LISN), with 50Ω /50 µH (CISPR 16) characteristics. Table top equipment is placed on a non-conducting table 80 centimeters above the floor and is positioned 40 centimeters from the vertical ground plane (wall) of the screen room. If the minimum passing margin appears to be less than 20 dB with a peak mode measurement, the emissions are remeasured using a tuned receiver with quasipeak and average detection and recorded on the data sheets.

Testresult

The requirements are

O - MET

O - NOT MET

Min. limit margin

_____ dB at _____ MHz

Max. limit exceeding

_____ dB at _____ MHz

Remarks: EUT is connected to the DC power supply in the car. There are no
requirements for conducted emissions on DC input port for car use.

SPURIOUS EMISSION

FCC ID: PENASAT1

Spurious emissions from the EUT are measured in the frequency range of 9 kHz to 30 MHz using a tuned receiver and a shielded loop antenna. The antenna was positioned 3, 10 or 30 meters horizontally from the EUT. Measurements have been made in all three orthogonal axes and the shielded loop antenna was rotated to locate the maximum of the emissions.

Spurious emissions from the EUT are measured in the frequency range of 30 MHz to 10 times the highest used frequency using a tuned receiver and appropriate broadband linearly polarized antennas. Measurements between 30 MHz and 1000 MHz are made with 120 kHz/6 dB bandwidth and quasipeak detection and measurements above 1000 MHz are made with a 1 MHz/6 dB bandwidth and peak detection, remeasurement of results which may be critical will be repeated in average mode. Table top equipment is placed on a 1.0 X 1.5 meter non-conducting table 80 centimeters above the ground plane. Floor standing equipment is placed directly on the turntable/ground plane. Interface cables that are closer than 40 centimeters to the ground plane are bundled in the center in a serpentine fashion so they are at least 40 centimeters from the ground plane. Cables to simulators/testers (if used in this test) are routed through the center of the table and to a screen room located outside the test area. The antenna was positioned 3, 10 or 30 meters horizontally from the EUT. To locate maximum emissions from the test sample the antenna is varied in height from 1 to 4 meters, measurement scans are made with both horizontal and vertical antenna polarizations and the EUT are rotated 360 degrees.

SPURIOUS EMISSION (MAGNETIC FIELD) 10 kHz - 30 MHz

☐ - Test not applicable

- ☐ - in a shielded room
- ☒ - at a non - reflecting open-site
and
- ☒ - in a testdistance of 3 meters.
- ☒ - in a testdistance of 10 metres
- ☒ - in a testdistance of 30 meters.

For TEST EQUIPMENT USED please refer to ATTACHMENT D: SER1

Description of Measurement

The final level, expressed in dBµV/m, is arrived at by taking the reading from the EMI receiver (Level dBµV) and adding the antenna correction factor and cable loss factor (Factor dB) to it. This result then has to be compared with the relevant FCC limit.

Example:

Frequency (MHz)	Level (dBµV)	+	Factor (dB)	=	Level (dBµV/m)	Limit (dBµV/m)	=	Delta (dB)
1.705	5	+	20	=	25	30	=	5

FCC ID: PENASAT1

Testresult in detail:

Testdistance 3 m

Frequency MHz	Bandw. kHz	L: PK dBµV	L: QP dBµV	L: AV dBµV	Correct.	L: PK dBµV	L: QP dBµV/m	L: AV dBµV/m	Limit dBµV/m
0.077	0.2	26.5	24.4	25.0	+20.0	46.5	44.4	45.0	109.9

Testdistance 10 m

Frequency MHz	Bandw. kHz	L: PK dBµV	L: QP dBµV	L: AV dBµV	Correct.	L: PK dBµV	L: QP dBµV/m	L: AV dBµV/m
0.077	0.2	-8.0	-11.6	-11.0	+20.0	12.0	8.4	9.0

Testdistance 30 m

Frequency MHz	Bandw. kHz	L: PK dBµV	L: QP dBµV	L: AV dBµV	Correct.	L: PK dBµV	L: QP dBµV/m	L: AV dBµV/m	Limit dBµV/m
0.077	0.2	<-20	<-20	<-20	+20.0	<0.0	<0.0	<0.0	69.9

The requirements are

■ - MET

○ - NOT MET

Min. limit margin

>10dB at 0.077 MHz

Max. limit exceeding

dB at MHz

Remarks: The limits are met. The measurement was carried out up to

the 10th harmonic (1.342 MHz) of the fundamental frequency.

All harmonics of the fundamental was not measureable in 3, 10

and 30 metres test distance (below ambient noise level!).

SPURIOUS EMISSIONS (electric field) 30 MHz - 1000 MHz

☐ - Test not applicable

- ☒ - Open-site 1
- ☐ - Open-site 2
- ☒ - 3 meters
- ☐ - 10 meters
- ☐ - 30 meters

For TEST EQUIPMENT USED please refer to ATTACHMENT D: SER2

Description of Measurement

The final level, expressed in dB μ V/m, is arrived by taking the reading from the EMI receiver (Level dB μ V) and adding the correction factors and cable loss factor (Factor dB) to it. This is done automatically in the EMI receiver, where the correction factors are stored. This result then has the FCC or CISPR limit subtracted from it to provide the Delta which gives the tabular data as shown in the data sheets at page 24 - 25. The CISPR 22 limit is equivalent to the Australian AS 3548 limit.

Example:

Frequency (MHz)	Level (dB μ V)	+	Factor (dB)	=	Level (dB μ V/m)	Limit (dB μ V/m)	=	Delta (dB)
719	75	+	32.6	=	107.6	110	=	-2.4

Testresult in detail:

Frequency MHz	L: QP dB μ V	L: AV dB μ V	Correct.	L: QP dB μ V/m	L: AV dB μ V/m	Limit dB μ V/m

Testresult

The requirements are

☒ - MET

☐ - NOT MET

Min. limit margin >20 dB at 30-1000 MHz

Max. limit exceeding _____ dB at _____ MHz

Remarks: The limits are met.

SPURIOUS EMISSION 1 GHz - 18 GHz

■ - Test not applicable

Testlocation :

- - Open-site 1
- - Open-site 2
- - Anechoic chamber
- - Full compact chamber

- - 1 meters
- - 3 meters
- - 10 meters

For TEST EQUIPMENT USED please refer to ATTACHMENT D: _____

Description of Measurement

The final level, expressed in dBuV/m, is arrived by taking the reading from the Spectrumalyzer in dBuV and adding the correction factors of the test setup incl. cables.

Example of the correction value at 1.8236 GHz

Level reading at	correction EMCO 3115	correction Amplifier	correction factor (summarized)	corrected level
1.5 GHz		AWT 8035 + cable		
56 dBuV	+25.7	-41.7	-16	40 dBuV

Testresult

The requirements are

0 - MET

0 - NOT MET

Min. limit margin

_____ dB at _____ GHz

Max. limit exceeding

_____ dB at _____ GHz

Remarks: NOT APPLICABLE. Because of the used frequencies there are

no requirements for radiated emissions.

H-FIELD STRENGTH OF THE FUNDAMENTAL WAVE (MAGNETIC FIELD)

☐ - Test not applicable

- - at a non - reflecting open-site and
- - in a testdistance of 3 meters.
- - in a testdistance of 10 meters
- - in a testdistance of 30 meters.

For TEST EQUIPMENT USED please refer to ATTACHMENT D: CPR1

Description of Measurement

The final level, expressed in dBµV/m, is arrived at by taking the reading from the EMI receiver (Level dBµV) and adding the antenna correction factor and cable loss factor (Factor dB) to it. This result then has to be compared with the relevant FCC limit.

Example:

Frequency (MHz)	Level (dBµV)	+	Factor (dB)	=	Level (dBµV/m)	Limit (dBµV/m)	=	Delta (dB)
1.705	5	+	20	=	25	30	=	5

Testresult in detail:**Testdistance 3m**

Frequency kHz	Bandw. kHz	L: PK dBµV	L: QP dBµV	L: AV dBµV	Correct.	L: PK dBµV/m	L: QP dBµV	L: AV dBµV/m	Limit dBµV/m
134.2	0.2	66.4	65.7	66.4	+20.0	86.4	85.7	86.4	105.0

Testdistance 10m

Frequency kHz	Bandw. kHz	L: PK dBµV	L: QP dBµV	L: AV dBµV	Correct.	L: PK dBµV/m	L: QP dBµV	L: AV dBµV/m
134.2	0.2	41.5	40.6	41.3	+20.0	61.5	60.6	61.3

Testdistance 30m

Frequency kHz	Bandw. kHz	L: PK dBµV	L: QP dBµV	L: AV dBµV	Correct.	L: PK dBµV/m	L: QP dBµV	L: AV dBµV/m	Limit dBµV/m
134.2	0.2	15.0	14.6	14.8	+20.0	35.0	34.6	34.8	65.0

Testresult

The requirements are

■ - MET

0 - NOT MET

Min. limit margin 18.1 dB at 0.1342 MHz

Max. limit exceeding _____ dB at _____ MHz

**CONDUCTED POWER OF THE FUNDAMENTAL WAVE MEASURED
ON THE ANTENNA TERMINALS**

■ - Test not applicable

Testlocation :

- o - Shielded room no. 1
- o - Shielded room no. 2
- o - Shielded room no. 3
- o - Shielded room no. 4
- o - Shielded room no. 5
- o - Shielded room no. 6
- o - Shielded room no. 7
- o - Anechoic chamber
- o - Full compact chamber
- o - Climatic test chamber VLK

For TEST EQUIPMENT USED please refer to ATTACHMENT D: _____

Description of Measurement

The conducted power of the fundamental wave measured on the antenna terminals in a climatic test chamber. The antenna jack was connected to the input of a communication test receiver. The internal batteries have been removed also and a variable DC power supply was used instead. The measurements have been made with the EUT unmodulated. During the test the supply voltage and the temperature were varied and applied simultaneously. The lower supply voltage was given by the manufacturer. In case the equipment was switching off before, the switch off voltage was used instead.

Testresult

The requirements are

O - MET

O - NOT MET

Frequency range of equipment								
Temperature/°C	DC supply voltage/V	Power/dBm	Power/dBm	Power/dBm	Power/dBm	Power/dBm	Power/dBm	Power/dBm
-30								
-20								
-10								
0								
+10								
+20								
+30								
+40								
+50								

Remarks: NOT APPLICABLE

EQUIPMENT UNDER TEST

File No. T18173-1-20KG , Page 13 of 15

FCC ID: PENASAT1

Operation - mode of the EUT.:

The equipment under test was operated during the measurement under following conditions:

- - Standby
- - Testprogram (H - Pattern)
- - Testprogram (color bar)
- - Testprogram (customer specific)
- - Transmit on the frequency 134.2 kHz

- _____
- - _____
- - _____

Configuration of the equipment under test:

Following periphery devices and interface cables were connected during the measurement:

- | | |
|-----------|--------------|
| ○ - _____ | Type : _____ |
| ○ - _____ | Type : _____ |
| ○ - _____ | Type : _____ |
| ○ - _____ | Type : _____ |
| ○ - _____ | Type : _____ |
| ○ - _____ | Type : _____ |

■ - unshielded power cable

■ - unshielded cables

○ - shielded cables MPS.No.:

■ - customer specific cables

- - _____
- - _____

SUMMARY

GENERAL REMARKS:

The measured Door/Trunk Oscillator operate on the frequency 134.2 kHz

FINAL JUDGEMENT:

The requirements according to the technical regulations and tested operation modes are

■ - met.

○ - not met.

The equipment under test

■ - **Fulfills** the general approval requirements cited on page 3.

○ - **Does not** fulfill the general approval requirements cited on page 3.

Date of receipt of test sample : accdg. to storage record

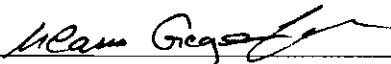
Testing Start Date : November 01, 1999

Testing End Date : November 03, 1999

- MIKES BABT PRODUCT SERVICE GmbH -

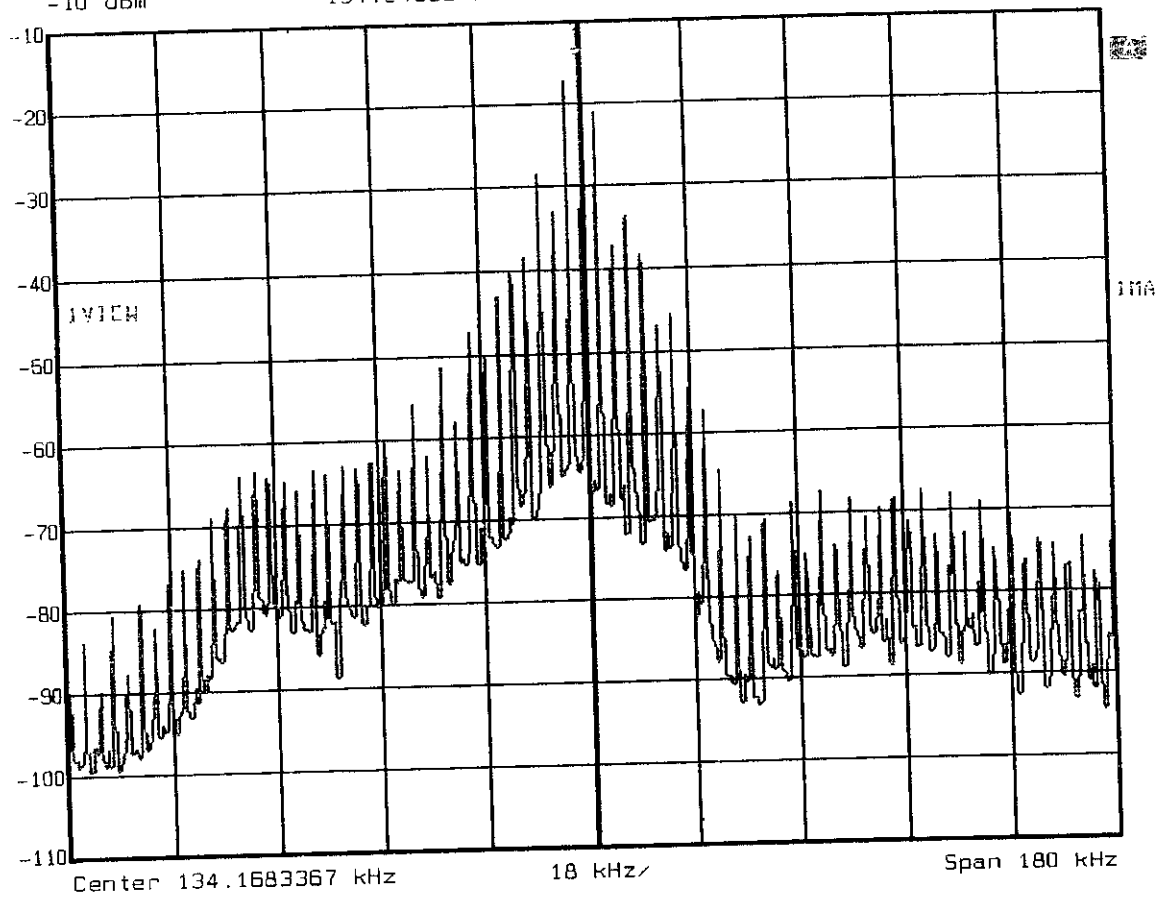
Test-engineer


Günter Mikes
Dipl.-Ing. (FH)


Klaus Gegenfurtner
Dipl.-Ing. (FH)

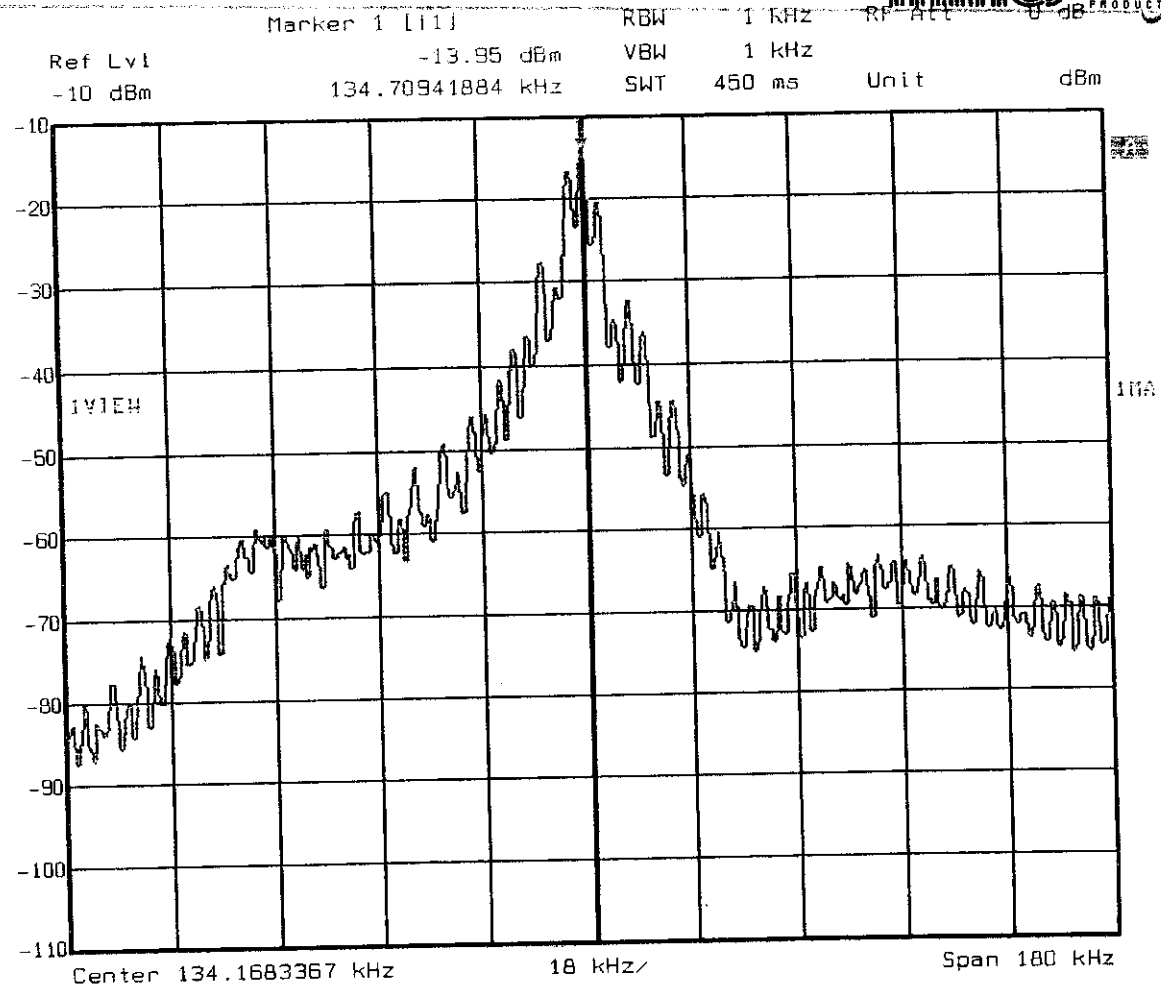
A wavefens@ghend

Marker 1 [11] RBW 100 Hz
Ref Lvl -14.32 dBm VBW 100 Hz
-10 dBm 134.34869739 kHz SWT 90 s Unit dBm



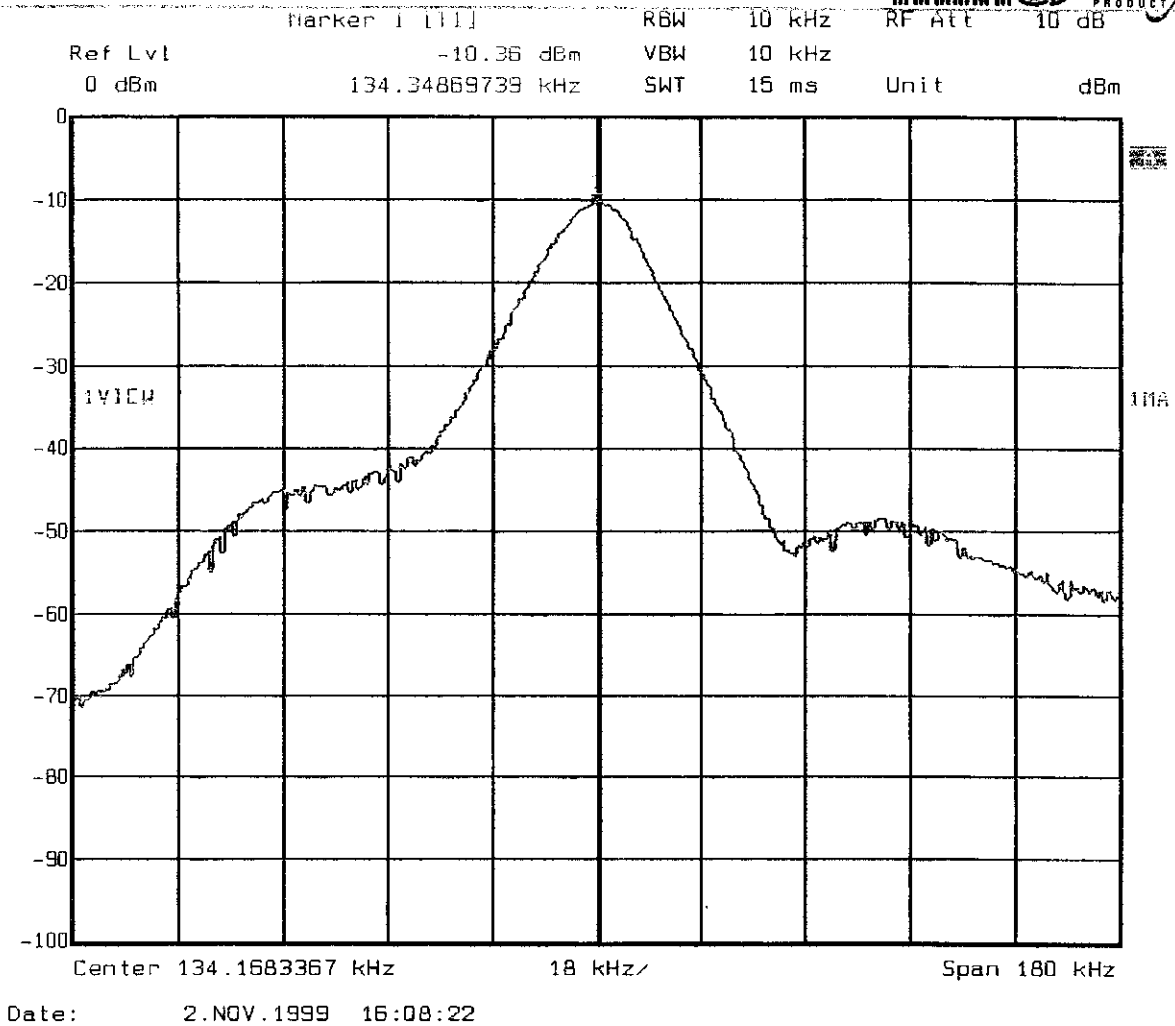
Date: 2.NOV.1999 16:05:04

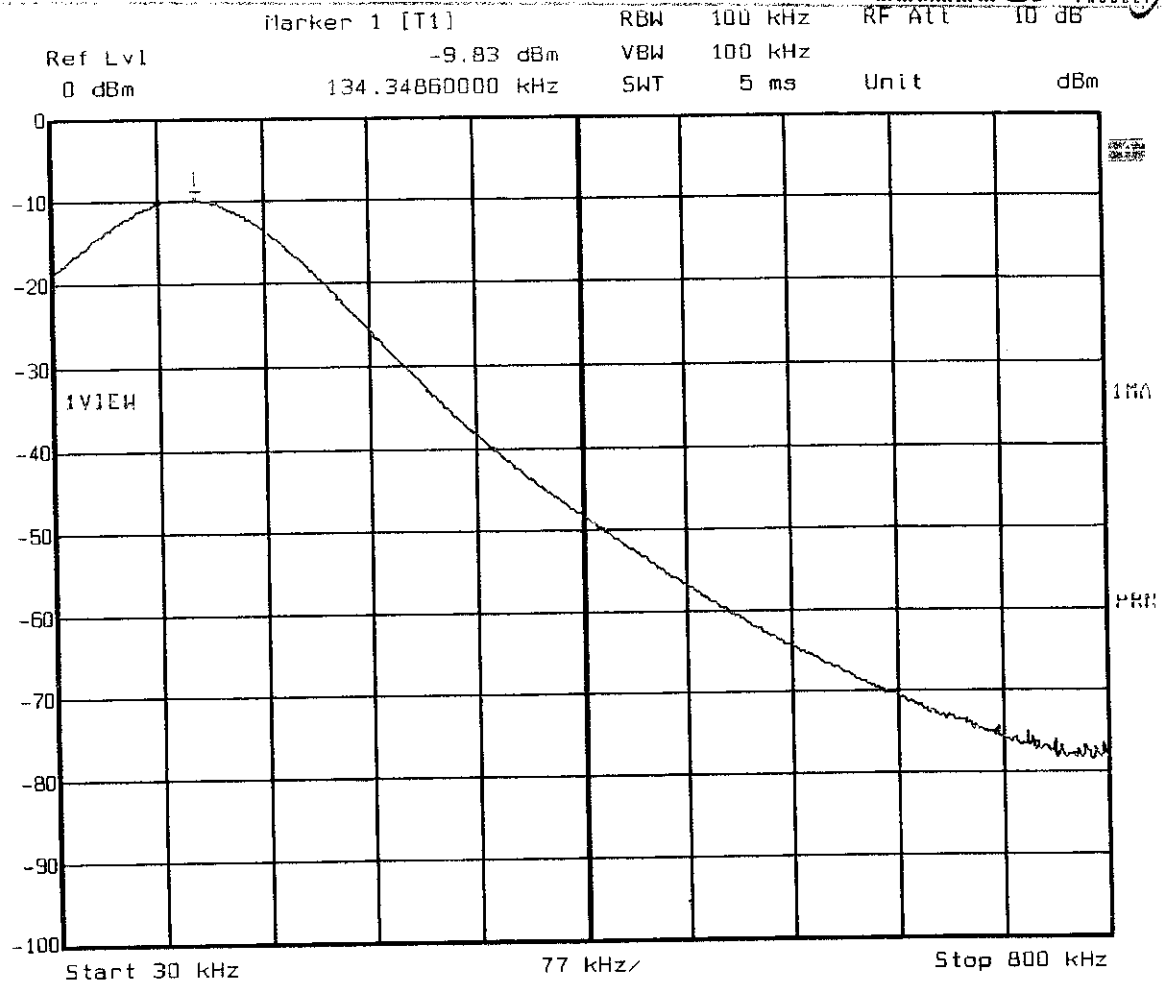
A waveform display



Date: 2.NOV.1999 15:01:58

A wavelength ahead





Date: 2.NOV.1999 16:09:33

Attachment : B**List of Test Equipment**

All test instruments used, in addition to the test accessories, are calibrated and verified regularly.

Test Report No: T 18173-1-20 KG
Beginning of Testing: 01-November-1999

Test ID	Model Type	Kind of Equipment	Manufacturer	Equipment No.
CPR1	FMZB 1516	Antenna	Schwarzbeck G.	04-07/62-90-018
	ESHS 30	Test Receiver	Rohde & Schwarz	04-07/63-92-045
MB	FMZB 1516	Antenna	Schwarzbeck G.	04-07/62-90-018
	FSEM 30	Spectrum Analyser	Rohde & Schwarz	04-07/74-97-001
SER1	FMZB 1516	Antenna	Schwarzbeck G.	04-07/62-90-018
	ESHS 30	Test Receiver	Rohde & Schwarz	04-07/63-92-045
SER2	BBA-9106	Antenna	Schwarzbeck G.	04-07/62-92-048
	UHALP-9108A	Antenna	Schwarzbeck G.	04-07/62-97-009
	ESVP	Test Receiver	Rohde & Schwarz	04-07/63-89-008

CONSTRUCTIONAL DATAFORM FOR TESTING OF RADIO EQUIPMENT

Licence holder: AISIN SEIKI CO., LTD.
 Address: 2-1 Asahi-machi, Kariya, Aichi, 448-8650 Japan
 Manufacturer: AISIN SEIKI CO., LTD.
 Address: 2-1 Asahi-machi, Kariya, Aichi, 448-8650 Japan
 Type: ASAT1
 Model: Door/Trunk Oscillator
 Serial-No.: _____ Protection class: _____

Application for getting

☒ national approval in the following countries: The US, Canada

☐ EC-type examination

Additional Informations to the above named model:**Antenna:**

transmitter:

Type: Integral antenna (Inductive loop coil)

Length/size: 0.0011 m² (Average area for the loop)

receiver:

Type:

Length/size:

Power supply of the transmitter:

Type:

Lead acid Battery

nominal voltage:

12.0 V

lowest voltage:

10.8 V

highest voltage:

15.6 V

Power supply of the receiver:

Type:

nominal voltage:

Ancillary equipment:

Description: Code generator

Type: Not applicable

Serial-no.:

Not applicable

Description: _____

Type: _____

Serial-no.:

Description: _____

Type: _____

Serial-no.:

Extreme temperature range in which the approval test should be performed:

☒ Category I: General (-20°C to +55°C) ☐ Category II: Portable (-10°C to +55°C)

☐ Category III: Equipment for normal indoor use (0°C to +55°C)

Connectable cables:

Name of the cable	Digital	Length/m	shielded
Power cable (12V)	☐ yes ☒ no	1m	☐ yes ☒ no
Data signal cable No.1	☐ yes ☒ no	1m	☐ yes ☒ no
Data signal cable No.2	☐ yes ☒ no	0.6m	☐ yes ☒ no
	☐ yes ☐ no		☐ yes ☐ no
	☐ yes ☐ no		☐ yes ☐ no

☐ If applicable, if necessary complete overleaf

Page

FCC ID: PENASAT1

Type designation: ASAT1			
Name and type designation of individual units comprising the radio equipment: Oscillator ECU Antenna			
Type of equipment:			
☐ Radiotelephone equipment	☐ Remote-control equipment	☐ Radiomarine equipment	☐ LPD
☐ One-way radiotelephone equipment	☐ Inductive loop system	☐ Inland waterways equipment	☐ RLAN
☐ Personal paging system	☐ Radio-relay system	☐ Radionavigation equipment	☒ Vehicle anti-theft product
☐ Satellite earth station	☐ CB radiotelephone equipment	☐ Antenna	☐
☐ Data transmission equipment	☐ Movement detector	☐ Aeronautical equipment	☐
Technical characteristics:			
	Transmitter-receiver	Transmitter	Receiver
Frequency range		134.2 kHz	
Maximum no. of channels		1	
Channel spacing			
Class of emission (type of modulation)		50K0L1D Pulse width modulation	
Maximum RF output power		12.5 dBm @ 10m	
Maximum effective radiated power (ERP)			
Output power variable			
Channel switching frequency range			
Method of frequency generation	☐ Synthesizer ☒ Crystal ☐ Other		
Frequency generation TX			
Frequency generation RX			
IF	1st IF	2nd IF	3rd IF
Integral selective calling			
Audio-frequency interface level at external data socket			
Modes of operation	☐ Duplex mode ☐ Semi-duplex mode ☒ Simplex mode		
Power source	☐ Mains ☒ Vehicle-regulated ☐ Integral		
Antenna socket	☐ BNC ☐ TNC ☐ N ☐ M ☐ UHF ☐ Adapter ☒ None ☐		
Type approval specifications: FCC Part 15.209			

0 If applicable, if necessary complete overleaf Page

Applicant: AISIN SEIKI CO., LTD.

Model name: ASAT1

FCC ID: PENASAT1

Declarations:

- We declare that the above information are correct and the named model was supplied with the maximum configuration to the accredited test laboratory.

Aichi, Japan

place of issue

, date 09/27/2000

Yoshimitsu, Oka

Seal and signature of applicant

0 If applicable, if necessary complete overleaf

Page