

TEST CERTIFICATE

We, hereby, verify that the under mentioned electrical product submitted to test at our laboratory dated May 22, 2013 (Reception No. D13Y0122) is compliance with the requirement of the test standard to be applied, as shown in the attached TEST REPORT (Ref. No. 13TR-Y0219).

Applicant (name & address): Sony Mobile Communications, Inc
1-8-15 Kohnan, Minato-ku, Tokyo,
108-0075 Japan

Name of product: Mobile phone

Model/Type Ref.: PM-0530-BV

Rating and principal characteristics: –

Date of issue: June 4, 2013



Takashi Hatsumi
Director, Yokohama Laboratory
Japan Electrical Safety &
Environment
Technology Laboratories (JET)

TEST REPORT

Report reference No.: 13TR-Y0219

Date & No. of reception: May 22, 2013 (D13Y0122)

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108-0075 Japan

Name of product: Mobile phone

Model/Type Ref.: PM-0530-BV

Rating and principal characteristics: –

Test Standard: JIS C 0920:2003 (IEC 60529:2001)
Degrees of protection provided by enclosures
(IP Code)

Test Result: Pass

Date of issue: June 4, 2013



Takashi Hatsumi
Director, Yokohama Laboratory
Japan Electrical Safety & Environment
Technology Laboratories (JET)

Testing Laboratory

Japan Electrical Safety & Environment Technology Laboratories

- JET Tokyo Laboratory
5-14-12 Yoyogi, Shibuya-ku, Tokyo, 151-8545 Japan
- JET Yokohama Laboratory
1-12-30 Motomiya, Tsurumi-ku, Yokohama, 230-0004 Japan
- JET Kansai Laboratory
3-9-1 Nakouji, Amagasaki-shi, Hyogo, 661-0974 Japan

Date of sample received: May 27, 2013

Date of test: May 31, 2013

Tested by (+ signature):



Ikuyo Kanai

Approved by (+ signature):



Yoshikatsu Nakajima

Possible test case verdicts:

- N (.A.) Test case does not apply to the test object
- P (ass) Test object does meet the requirement
- F (ail) Test object does not meet the requirement

General remarks

- The test results presented in this report relate only to the object tested.
- This report shall not be reproduced except in full without the written approval of JET

Technical Requirement, JIS C 0920:2003 (IEC 60529:2001)			
Clause	Requirement – Test	Result	Verdict
11	General requirements for the tests		<i>P</i>
11.1	Atmospheric conditions for water or dust tests Temperature range: 15°C to 35°C Relative humidity: 25% to 75% Air pressure: 86 kPa to 106 kPa	23°C 41% 100.8 kPa	

Technical Requirement, JIS C 0920:2003 (IEC 60529:2001)			
Clause	Requirement – Test	Result	Verdict
11.2	<p>Test samples</p> <p>The samples to be tested</p> <ul style="list-style-type: none"> – In a clean and new condition – The complete equipment – Representative parts – Smaller equipment having the same full-scale design 	<p>New condition</p> <p>Complete equipment</p> <p>–</p> <p>–</p>	
	<ul style="list-style-type: none"> – Number of samples to be tested 	<p>8 set</p> <p>test for protection against dust:</p> <p>00440214-666879-7 1 set</p> <p>00440214-666886-2 1 set</p> <p>00440214-666883-9 1 set</p> <p>test for protection against water:</p> <p>Test of the Second Characteristic Numeral 5</p> <p>00440214-666903-5 1 set</p> <p>00440214-666907-6 1 set</p> <p>Test of the Second Characteristic Numeral 5</p> <p>00440254-061334-0 1 set</p> <p>00440214-666880-5 1 set</p> <p>00440214-666887-0 1 set</p> <p>The numbers above are the test sample's identification number</p>	
	<ul style="list-style-type: none"> – Conditions for mounting, assembling and positioning of samples 	–	
	<ul style="list-style-type: none"> – Pre-conditioning 	Without	

Technical Requirement, JIS C 0920:2003 (IEC 60529:2001)			
Clause	Requirement – Test	Result	Verdict
	– Whether to be tested energized or not	Without	
	– Whether to be tested with its parts in motion or not	Without	
11.3	<p>Application of test requirements and Interpretation of test results</p> <p>The application of the general requirements for tests and the acceptance condition for equipment containing drain-holes or ventilation opening is the responsibility of "the relevant Technical Committee" or "this standard"</p> <p>Standard applied for the Interpretation of test results is the responsibility of "the relevant Technical Committee" or "this standard"</p>	<p>Without drain - holes and ventilation opening</p> <p>"this standard"</p> <p>"this standard"</p>	
11.4	<p>Combination of test conditions for the first characteristic numeral</p> <p>Table 5 applied</p>	The first characteristic numeral 5	
11.5	<p>Empty enclosures</p> <p>(The enclosure tested without equipment inside)</p> <p>With or without equipment inside</p> <p>The arrangement and spacing of the parts be affected by the penetration of foreign objects</p>	–	

Technical Requirement, JIS C 0920:2003 (IEC 60529:2001)			
Clause	Requirement – Test	Result	Verdict
13	Tests for protection against solid foreign objects indicated by the first characteristic numeral		<i>P</i>
13.4	Dust test for characteristic numerals 5 and numerals 6 Use of dust chamber shown in Fig. 2	Using the dust test chamber The first characteristic numeral 5	
13.4A	Category 1 enclosures – 2 hours (extraction rate: 40-60 volumes per hour) Continued until 80 volumes have been drawn through or a period of 8 hours elapsed (extraction rate: 40 volumes per hour).	– –	
13.4B	Category 2 enclosures Continued for 8 hours	Requested by applicant 8 hours	

Technical Requirement, JIS C 0920:2003 (IEC 60529:2001)			
Clause	Requirement – Test	Result	Verdict
13.4C	<p>Category 1 enclosures and Category 2 enclosures</p> <p>If the test sample (enclosure) could not complete setting in the test chamber, the following procedure shall be applied:</p> <ul style="list-style-type: none"> – Testing of individually enclosed sections of the enclosure. – Testing of representative parts of the enclosure, in position during test. ※1 – Testing of a smaller enclosure having the same full - scale design details. ※1 <p>※1 The volume of air to be drawn through the enclosure under test shall be the same as for the whole enclosure in full scale</p>	<p>Complete equipment</p> <p>Made two samples screen upward and one samples screen upside down</p> <p>–</p> <p>–</p> <p>–</p>	
	<p>13.5</p> <p>Special Conditions for first characteristic number 5</p>		
13.5.1	<p>Test conditions</p> <p>The enclosure deemed to:</p> <ul style="list-style-type: none"> – Category 1 applied – Category 2 applied (if the relevant product standard specifies that the enclosure is category 2) 	<p>–</p> <p>requested by applicant</p>	

Technical Requirement, JIS C 0920:2003 (IEC 60529:2001)			
Clause	Requirement – Test	Result	Verdict
13.5.2	Acceptance conditions – No talcum powder accumulate in a quantity or location such that it could interfere with the correct operation of the equipment or impair safety	no talcum powder be accumulated inside any sample of 3 set	<i>P</i>
	– No dust deposit where it could lead to tracking along the creep age distances	–	<i>N</i>

Technical Requirement, JIS C 0920:2003 (IEC 60529:2001)			
Clause	Requirement – Test	Result	Verdict
14	Tests for protection against water indicated by the second characteristic numeral		P
14.1	<p>Test means</p> <p>The test means and the main test conditions applied as in Table 8</p>	<p>Figure 6 (water jet hose nozzle)</p> <p>The second characteristic numeral 5</p> <p>Immersion tank, water-level: 3 m</p> <p>The second characteristic numeral 8</p>	
14.2	<p>Test conditions</p> <p>Tests performed according to sub -cl.14.2, the test method and main test which was given in Table 8</p> <p>– Difference between water temperature and temperature of the specimen under test (the maximum is 5K)</p>	<p>2K</p> <p>Water temperature: 21°C</p> <p>Sample temperature: 23°C</p>	
14.2.5	<p>Test for second characteristic numeral 5 with 6.3 mm nozzle</p> <p>Tests performed according to sub -cl.14.2.5 and test with standard nozzle.</p> <p>– Internal diameter of nozzles: 6.3 mm</p> <p>– Delivery rate: 12.5 L ±0.625L/min</p> <p>– Water pressure: depending on delivery rate</p> <p>– Core of the substantial stream: Approx. 40mm diameter at 2.5 m from nozzle</p>	<p>Made one sample's screen upward and one sample's screen upside down</p> <p>6.3mm</p> <p>12.5L/ min</p> <p>Set by delivery rate</p> <p>Ditto</p>	

Technical Requirement, JIS C 0920:2003 (IEC 60529:2001)			
Clause	Requirement – Test	Result	Verdict
	<ul style="list-style-type: none"> – The calculation surface area of the sprayed enclosure – Minimum duration of test: 3 min – Distance from nozzle to enclosure surface: 2.5m-3m 	<p>Not more than 1.0m²</p> <p>3min</p> <p>2.5 m</p>	
14.2.8	<p>Test for second characteristic numeral 8: continuous immersion subject to agreement</p> <p>Test condition:</p> <ul style="list-style-type: none"> - depends on the relevant product standard - depends on agreement between manufacturer and user 	<p>Made two samples screen upward and one samples screen upside down</p> <p>–</p> <p>Under applicant requested putting the sample below 1.5m water from bottom edge and continuous diving for 30 minute.</p>	

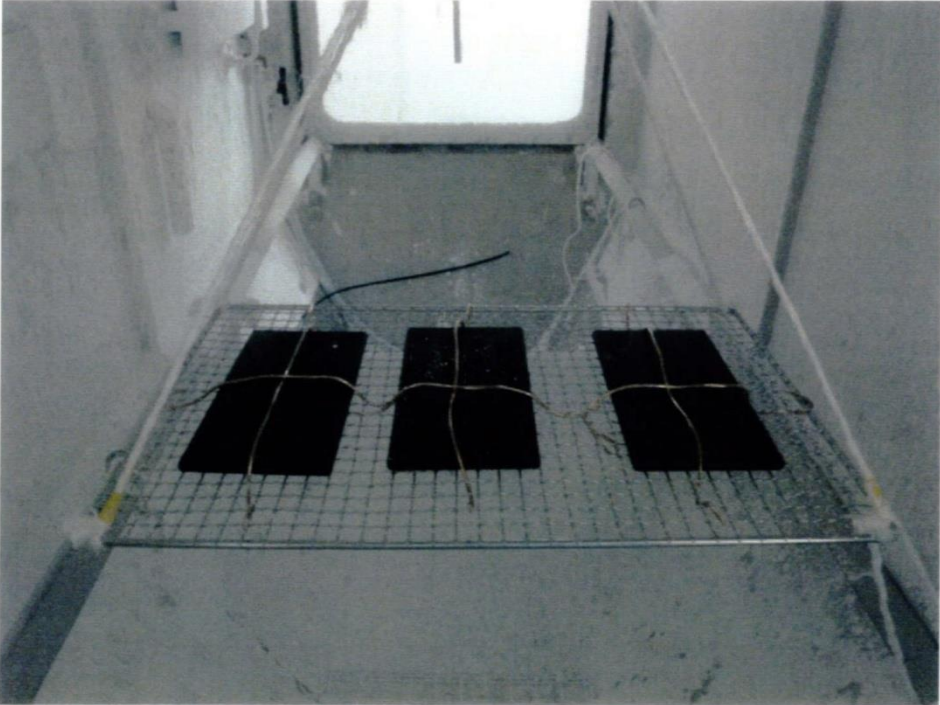
Technical Requirement, JIS C 0920:2003 (IEC 60529:2001)			
Clause	Requirement – Test	Result	Verdict
14.3	Acceptance conditions sub clause 14.2.1-14.2.8 Acceptance conditions a applied as specified in sub clause 14.3 or the relevant product standard	Test of sub clause 14.2.5 and 14.2.8 Test conditions of sub clause 14.3	
	Inspected for whether or not any ingress of water	Between all test tem no water entered 5 set of test sample	<i>p</i>
	If any water has entered, it shall not: – Be sufficient to interfere with the correct operation of the equipment or impair safety;	–	<i>N</i>
	– Deposit on insulation parts where it could lead to tracking along the creepage distances;	–	<i>N</i>
	– Reach live parts or windings not designed to operate when wet	–	<i>N</i>
	– Accumulate near the cable end or enter the cable but drain away when wet	–	<i>N</i>
	– Accumulate the live part when water enters but drain away	–	<i>N</i>
	– If the enclosure is provided with drain holes when water enters it drain away	–	<i>N</i>
	– For enclosures without drain holes the relevant standard shall specify the acceptance condition.	–	<i>N</i>

Photo

The external view of test sample



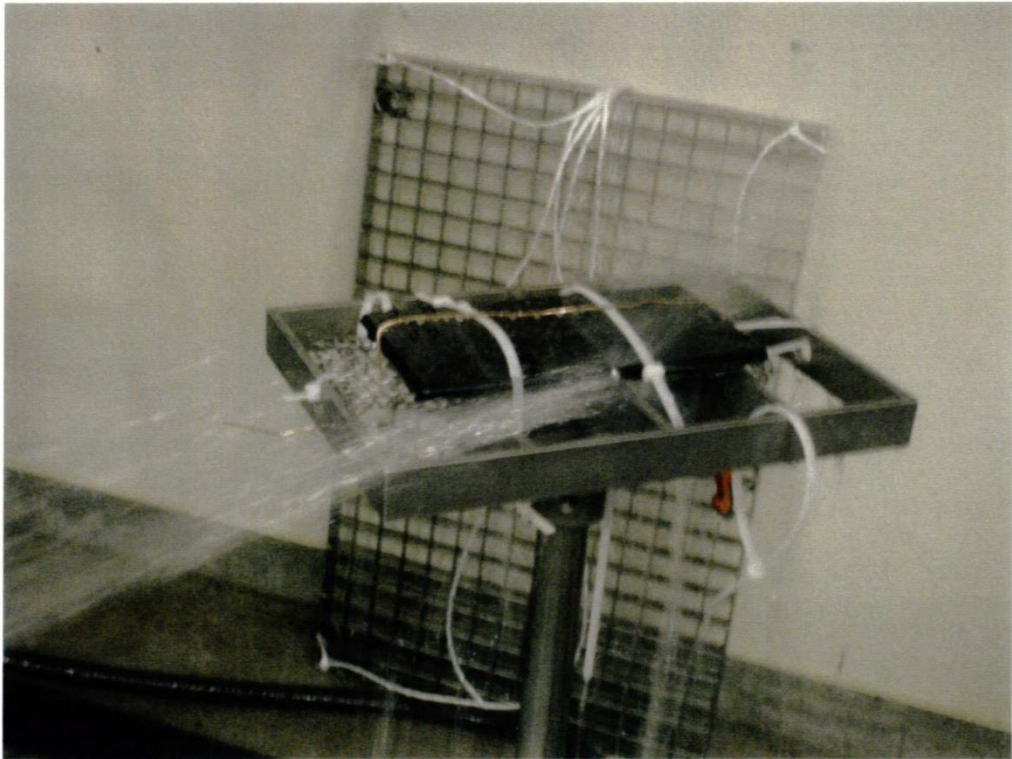
Before Dust Test



After Dust Test



Test of the Second Characteristic Numeral 5



Test of the Second Characteristic Numeral 8



Immersion tank, water-level: 3m