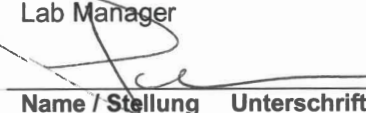


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Kunden Referenz-Nr.: - <i>Client Reference No.:</i>		Auftragsdatum 2018-08-01 <i>Order date:</i>			
Auftraggeber: Sony Mobile Communication AB <i>Client:</i> Nya Vattentorget, 223 62 Lund, Sweden					
Prüfgegenstand: Connected Gym – Puck <i>Test item:</i>					
Bezeichnung / Typ-Nr.: XD-0021 <i>Identification / Type No.:</i> PY7-15706B					
Auftrags-Inhalt: RF Exposure Evaluation <i>Order content:</i>					
Prüfgrundlage: FCC 47 CFR §2.1091 <i>Test specification:</i>					
Wareneingangsdatum: N/A <i>Date of receipt:</i>					
Prüfmuster-Nr.: N/A <i>Test sample No.:</i>					
Prüfzeitraum: N/A <i>Testing period:</i>					
Ort der Prüfung: Lund, Sweden <i>Place of testing:</i>					
Prüflaboratorium: TÜV Rheinland Sweden <i>Testing laboratory:</i>					
Prüfergebnis: See detail in report <i>Test results:</i>					
Geprüft von Niall Forrester <i>Tested by:</i> Test Engineer		Kontrolliert von Per Isacsson <i>Reviewed by:</i> Lab Manager			
2018-12-19 		2018-12-19 			
Datum <i>Date</i>	Name / Stellung <i>Name / Position</i>	Unterschrift <i>Signature</i>	Datum <i>Date</i>	Name / Stellung <i>Name / Position</i>	Unterschrift <i>Signature</i>
Sonstiges / <i>Other:</i>					
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 only 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 test or accreditation mark/logo</i>					

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Revisions Revisions			
Revision Revision	Datum Date	Anmerkung Remark	Verfasser Author
Draft	2018-12-17	Initial Draft	Niall Forrester
001	2018-12-19	First release	Niall Forrester

Note: Latest revision report will replace all previous reports

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PRODUCT INFORMATION

1.1 Equipment under Test (EUT) description

Model name:	Connected Gym
Manufacturer:	Sony Mobile Communications Inc,
Model number:	PUCK 3.1
Type Number:	XD-0021
FCC ID:	PY7-15706B
Description:	Connected Gym digitalize a gym without replacing the gym machines. The main unit report repetitions to the system while the puck is used as machine identifier

1.2 Wireless Technologies and Frequency Bands supported by the DUT

Technology	Band	Frequency Range (Tx)	Evaluation Performed
Bluetooth Low Energy	2.4 GHz	2400 MHz – 2483.5 MHz	YES

1.3 Conducted Power and Antenna Gain

Technology	Band	Maximum Conducted Output Power (dBm)	Antenna Gain (dBi)
Bluetooth Low Energy	2.4 GHz	-3.0	-3.0

Maximum Power and Antenna Gain are based on details supplied by the device manufacturer.

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EVALUATION

1.4 Summary

At 20cm, the device is compliant with the "General Population / Uncontrolled" requirements set out in FCC 47 CFR §1.1310 Table 1 (B) for all wireless technologies supported by the device.

1.5 Detailed Calculations

The Power Density at 20cm separation distance has been calculated for each of the transmitter technologies supported by the device according to a re-arrangement of the Friis formula, as below:

$$S = \frac{P * G}{4\pi * r^2}$$

Where:

- "S" is power density in mW/cm²
- "P" is maximum avg. conducted power (incl. tolerances) in mW according to data from the manufacturer
- "G" is the peak antenna gain (numerical) according to data from the manufacturer
- "r" is the separation distance (20 cm)

Technology	Band	Frequency* (MHz)	Power (dBm)	P (mW)	Gain (dBi)	G (Numerical)	r (cm)	S (mW/cm ²)	Limit** (mW/cm ²)
Bluetooth Low Energy	2.4 GHz	2400	-3.00	0.50	-3.00	0.50	20	0.000050	1.0

*The lowest frequency in each band has been chosen, to give the most conservative limit

**The limits listed are from FCC 47 CFR §1.1310 Table 1 (B): "Limits for General Population/Uncontrolled"
From 1500MHz to 100000MHz, the limit is 1.0 mW/cm²

*****END OF REPORT*****