



November 26, 2018

Shenzhen OSTO Technology Co., Ltd.
% Cecilia Ceng
Manager
Guangzhou GLOMED Biological Technology Co., Ltd.
Suite 306, Kecheng Mansion, No.121 Science Road
Guangzhou Science Park
Guangzhou, 510006 Cn

Re: K172837

Trade/Device Name: Low-frequency Multi-function physiotherapy instrument
Regulation Number: 21 CFR 882.5890
Regulation Name: Transcutaneous Electrical Nerve Stimulator For Pain Relief
Regulatory Class: Class II
Product Code: NUH, NGX
Dated: October 17, 2018
Received: October 26, 2018

Dear Cecilia Ceng:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. Although this letter refers to your product as a device, please be aware that some cleared products may instead be combination products. The 510(k) Premarket Notification Database located at <https://www.accessdata.fda.gov/scripts/cdrh/cfdocs/cfpmn/pmn.cfm> identifies combination product submissions. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration. Please note: CDRH does not evaluate information related to contract liability warranties. We remind you, however, that device labeling must be truthful and not misleading.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the Federal Register.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); medical device reporting (reporting of medical device-related adverse events) (21 CFR 803) for devices or postmarketing safety reporting (21 CFR 4, Subpart B) for combination products (see <https://www.fda.gov/CombinationProducts/GuidanceRegulatoryInformation/ucm597488.htm>); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820) for devices or current good manufacturing practices (21 CFR 4, Subpart A) for combination products; and, if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR Part 807.97). For questions regarding the reporting of adverse events under the MDR regulation (21 CFR Part 803), please go to <http://www.fda.gov/MedicalDevices/Safety/ReportaProblem/default.htm>.

For comprehensive regulatory information about medical devices and radiation-emitting products, including information about labeling regulations, please see Device Advice (<https://www.fda.gov/MedicalDevices/DeviceRegulationandGuidance/>) and CDRH Learn (<http://www.fda.gov/Training/CDRHLearn>). Additionally, you may contact the Division of Industry and Consumer Education (DICE) to ask a question about a specific regulatory topic. See the DICE website (<http://www.fda.gov/DICE>) for more information or contact DICE by email (DICE@fda.hhs.gov) or phone (1-800-638-2041 or 301-796-7100).

Sincerely,

Timothy A. Marjenin -S

For Carlos L. Peña, PhD, MS
Director
Division of Neurological
and Physical Medicine Devices
Office of Device Evaluation
Center for Devices and Radiological Health

Enclosure

Indications for Use

510(k) Number (if known)

K172837

Device Name

Physiotherapy instrument (Models: AST- 2011A, AST- 2011B, and AST-802B)

Indications for Use (Describe)

PMS (Mode 1)

It is intended to stimulate healthy muscles in order to improve and facilitate muscle performance.

TENS (Mode 2)

To be used for temporary relief of pain associated with sore and aching muscles in the shoulder, waist, back, back of the neck, arm, leg, and foot due to strain from exercise or normal household work activities by applying current to stimulate nerve.

Type of Use (Select one or both, as applicable)

☐ Prescription Use (Part 21 CFR 801 Subpart D)

☒ Over-The-Counter Use (21 CFR 801 Subpart C)

CONTINUE ON A SEPARATE PAGE IF NEEDED.

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Chapter 5. 510(k) Summary

510(k) Summary

This summary of 510(K) safety and effectiveness information is being submitted in accordance with the requirement of 21 CFR 807.92.

1. Submitter's Information

510(k) Owner's Name: Shenzhen OSTO Technology Co., Ltd.

Establishment Registration Number: Applying

Address: No.43 Longfeng Road, Xinsheng Community, Longgang Street Longgang District, Shenzhen City Guangdong Province, CHINA

Tel: +86-755-29769546

Fax: +86-755-29769540

Contact Person: Li Yang (General Manager)

Email: annaosto@163.com

Application Correspondent:

Contact Person: Ms. Cassie Lee

Guangzhou GLOMED Biological Technology Co., Ltd.

Address: Suite 306, Kecheng Mansion, No.121 Science Road, Guangzhou Science Park, Guangzhou 510663, China

Tel: +86-20-61099984

Email: regulatory@glomed-info.com

2. Subject Device Information

Type of 510(k): Traditional

Trade/Device Name: Physiotherapy instrument, Models: AST-2011A, AST-2011B, AST-802B

Common Name: [Electronic Simulator](#)

Classification Name:

1. [Stimulator, Nerve, Transcutaneous, Over-The-Counter \(NUH\)](#)

2. [Stimulator, Muscle, Powered, For Muscle Conditioning \(NGX\)](#)

Review Panel: Neurology

Product Code: NUH, NGX

Regulation Number: 21 CFR 882.5890, 890.5850

Regulatory Class: II

3. Predicate Device Information

Sponser: Shenzhen OSTO Technology Company Limited

Trade Name: Health Expert Electronic Stimulator

Common Name: Electronic Stimulator

Classification name: Stimulator, Nerve, Transcutaneous, Muscle, Powered, For Muscle Conditioning, Over-The-Counter

510(k)number: K133929

Review Panel: Neurology, Physical Medicine

Product Code: NUH, NGX

Regulation Number: 882.5890, 890.5850

Regulation Class: II

4. Device Description

Physiotherapy instrument has 2 operation modes and one channel, [after insert the electrode wire of the electrode pads, just put the electrode pads on the same side of your body, for shoulder, waist, back, back of the neck, arm, leg or foot \(depends on your need, please consult your doctor before using if need\)](#), which can give certain electrical pulse through [2 pieces](#) of electrode pads on the skin.

The electronic stimulatory module has the operating elements of ON/OFF Switch, Display screen, Mode Selection key, Intensity enhancement/weakening keys, language switch button and time selection keys. The LCD display screen can show selected mode, output intensity of body and/or sole, time remaining of an application mode, language display system.

The device is equipped with accessories of electrode pads, electrode wire, adapter.

The electrode wire is used to connect the pads to the main unit; the adapter wire is used to connect the adapter to the device.

5. Intended Use / Indications for Use

PMS (Mode 1)

It is intended to stimulate healthy muscles in order to improve and facilitate muscle performance.

TENS (Mode 2)

To be used for temporary relief of pain associated with sore and aching muscles in the shoulder, waist, back, back of the neck, arm, leg, and foot due to strain from exercise or normal household work activities by applying current to stimulate nerve.

6. Test Summary

Physiotherapy instrument, Models: AST-2011A, AST-2011B, AST-802B has been evaluated the safety and performance by lab bench testing as following:

- ◆ Electrical safety test according to IEC 60601-1, IEC 60601-1-11 and IEC 60601-2-10 standards
- ◆ Electromagnetic compatibility test according to IEC 60601-1-2 standard
- ◆ Biocompatibility test according to ISO 10993-5 and ISO 10993-10 standards
- ◆ Usability test according to IEC 62366 standard
- ◆ Software verification and validation test according to the requirements of the FDA "Guidance for the Content of Premarket Submissions for Software Contained in Medical Devices"
- ◆ The waveform test has also been conducted to verify the output specifications of the device according to "Guidance for Transcutaneous Electrical Nerve Stimulator for Pain Relief Intended for Over the Counter Use and Guidance for Powered Muscle Stimulator for Muscle Conditioning".

7. Comparison to predicate device and conclusion

The technological characteristics, features, specifications, materials, mode of operation, and intended use of Electronic Muscle Stimulator is substantially equivalent to the predicate devices quoted above.

The differences between the subject device and predicate devices do not raise new issues of safety or effectiveness.

Comparison in Detail(s):

Elements of Comparison	Subject Device	Predicate Device	Verdict
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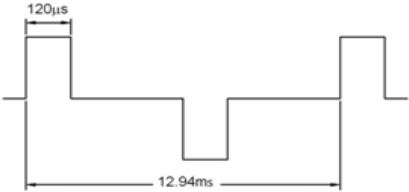
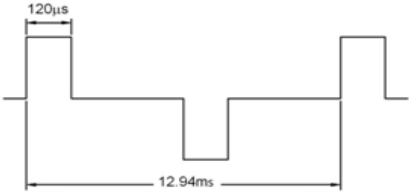
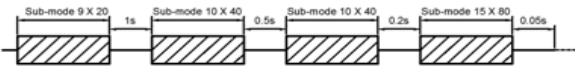
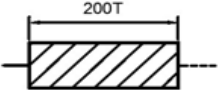
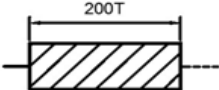
Elements of Comparison	Subject Device	Predicate Device	Verdict
Company	Shenzhen OSTO Technology Co., Ltd	Shenzhen OSTO Technology Co., Ltd	--
Trade Name	Physiotherapy instrument	Health Expert Electronic Stimulator	--
Model	AST-2011A, AST-2011B, AST-802B	AST-300C, AST-300D	
Classification Name	Stimulator, Nerve, Transcutaneous, Over-The-Counter	Stimulator, Nerve, Transcutaneous, Over-The-Counter	--
510(k) Number	Applying	K133929	--
Product Code	NUH, NGX	NUH, NGX	SE
Intended Use / Indications for Use	PMS (Mode 1) It is intended to stimulate healthy muscles in order to improve and facilitate muscle performance. TENS (Mode 2) To be used for temporary relief of pain associated with sore and aching muscles in the shoulder, waist, back, back of the neck, arm, leg, and foot due to strain from exercise or normal household work activities by applying current to stimulate nerve.	PMS (Mode 1~8) It is intended to stimulate healthy muscles in order to improve and facilitate muscle performance. TENS (Mode 9~25) To be used for temporary relief of pain associated with sore and aching muscles in the shoulder, waist, back, back of the neck, arm, leg, and foot due to strain from exercise or normal household work activities by applying current to stimulate nerve.	SE
Power Source	Adaptor Input: 100-240Vac, 50-60Hz, 0.1A Output: 5Vdc, 1A Unit Input: 5Vdc, 1A	Adaptor Input: 100-240Vac, 50-60Hz, 0.1A Output: 5Vdc, 1A Unit Input: 5Vdc, 1A	SE
-Method of Line Current Isolation	Type BF Applied Part	Type BF Applied Part	SE
Patient Leakage Current	Normal Condition: AC: 54.5µA, DC: 0.5µA Single Fault Condition: AC:120.0µA, DC: 0.6µA	Normal Condition: AC: 54.5µA, DC: 0.5µA Single Fault Condition: AC:120.0µA, DC: 0.6µA	SE
Number of Output Modes	2	25	SE Note 2
Number of Output Channels:	1	2	SE Note 2

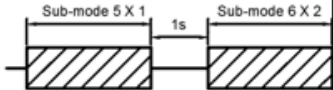
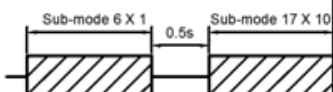
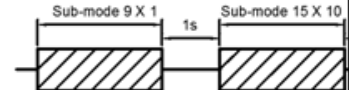
Elements of Comparison		Subject Device	Predicate Device	Verdict
- Synchronous or Alternating?		N/A	Synchronous	SE Note 2
- Method of Channel Isolation		N/A	Voltage Transform Isolation “BODY▼” and “BODY▼” buttons for body channel, “SOLE▲” and “SOLE▼” buttons for feet channel	SE Note 2
Regulated Current or Regulated Voltage?		Voltage Control	Voltage Control	SE
Software/Firmware/Microprocessor Control?		Yes	Yes	SE
Automatic Overload Trip?		No	No	SE
Automatic No-Load Trip?		No	No	SE
Automatic Shut Off?		Yes	Yes	SE
Patient Override Control?		No	No	SE
Indicator or Display:	- On/Off Status?	Yes	Yes	SE
	- Low Battery?	No	No	SE
	- Voltage/Current Level?	Yes	Yes	SE
Timer Range (minutes)		5-15 min	25 min	SE Note 3
Compliance with Voluntary Standards?		No	No	SE

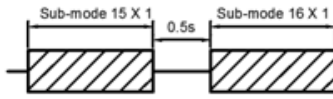
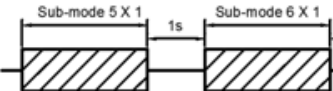
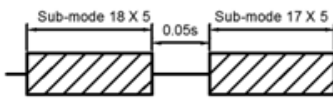
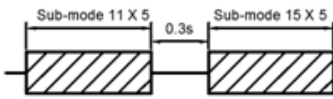
Elements of Comparison	Subject Device	Predicate Device	Verdict
Compliance* with 21 CFR 898?	Yes	Yes	SE
Main Unit Weight	105 g	2 kg	SE Note 1
Main Unit Dimension	AST-802B: 156.6 x 74.5 x 17.8 mm AST-2011A: 157.03 X 72.87 X 23.89 mm AST-2011B: 156.6 x 74.5 x 17.8 mm	428 x 428.8 x 185mm	SE Note 1
Housing Materials and Construction	Main unit: ABS plastic	Main unit: ABS plastic	SE
Output Specification			
Waveform	Pulsed, symmetric, biphasic	Pulsed, symmetric, biphasic	SE
Shape	Rectangular, with interphase interval	Rectangular, with interphase interval	SE
Maximum Output Voltage	44V±10% @ 500Ω	44V±10% @ 500Ω	SE
	80V±10% @ 2KΩ	80V±10% @ 2KΩ	
	112V±10% @ 10KΩ	112V±10% @ 10KΩ	
Maximum Output Current	88mA±10% @ 500Ω	88mA±10% @ 500Ω	SE
	40mA±10% @ 2KΩ	40mA±10% @ 2KΩ	
	11.2mA±10% @ 10KΩ	11.2mA±10% @ 10KΩ	
Pulse Duration	120μs	120μs	SE
Pulse frequency	77.3Hz	77.3Hz	SE
Symmetrical phases?	Yes	Yes	SE
Phase Duration	12.94 ms	12.94 ms	SE
Net Charge (mC per pulse)	0μC @ 500Ω Method: Balanced waveform	0μC @ 500Ω Method: Balanced waveform	SE
Maximum Phase Charge, (mC)	12.78 μC @ 500Ω	12.78 μC @ 500Ω	SE
Maximum Current Density, (mA/cm ²)	0.235 mA/cm ² @ 500Ω	0.235 mA/cm ² @ 500Ω	SE
Maximum Power Density, (W/cm ²)	1.38 mW/cm ² @ 500Ω	1.38 mW/cm ² @ 500Ω	SE
Stimulation parameters	See attached table 1	See attached table 1	SE

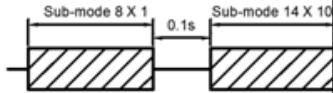
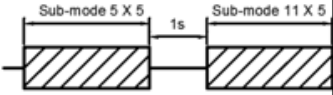
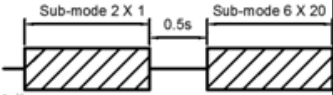
Elements of Comparison		Subject Device	Predicate Device	Verdict
Burst Mode	Pulses per burst	400	400	SE
	Bursts per second	0.63	0.63	SE
	Burst duration (seconds)	2.588	2.588	SE
	Duty Cycle [Line (b) x Line (c)]	1.63	1.63	SE
ON Time (seconds)		0.6s	0.6s	SE
OFF Time (seconds)		0.6s	0.6s	SE
Additional Features				
Environment for operation		Temperature: 5 ~ 45 Humidity: 15% - 90% Atmospheric pressure range of 700 hPa to 1 060 hPa	Temperature: 5 ~ 45° C Humidity: 20 ~ 65% RH	SE Note 4
Environment for storage		Temperature: -25 - +70°C Humidity: up to 90% Atmospheric pressure range of 700 hPa to 1 060 hPa	Temperature: 0 ~ 45° C, Humidity: 10 ~ 90% RH Electrode Pad: 10~20° C	SE Note 4

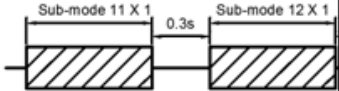
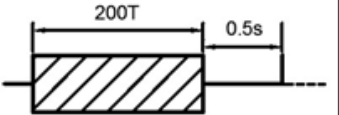
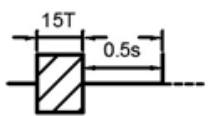
Table1

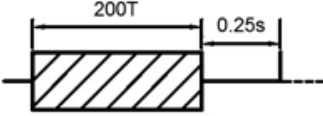
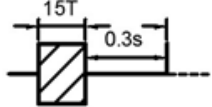
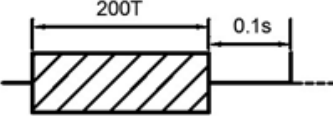
Output Specification				
Pulse Duration and Pulse Cycle				
	Note: "T" means Pulse Cycle.		Note: "T" means Pulse Cycle.	
Cycle of Mode 1	N/A			
Intensity			Max	Min
Peak Voltage (V) (0.5KΩ)			44 V	0.63
Peak Voltage (V) (2KΩ)			80 V	2.48
Peak Voltage (V) (10K Ω)			112 V	11.80
Cycle of Mode 2				
Intensity	Max	Min	Max	Min
Peak Voltage (V) (0.5KΩ)	44 V	0.63	44 V	0.63
Peak Voltage (V) (2KΩ)	80 V	2.48	80 V	2.48

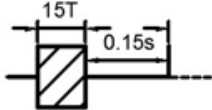
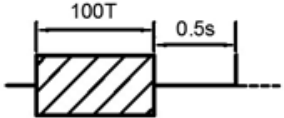
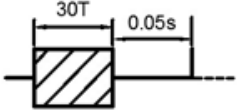
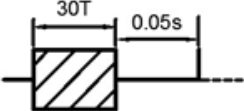
Peak Voltage (V) (10K Ω)	112 V	11.80	112 V	11.80
Cycle of Mode 3	N/A			
Intensity			Max	Min
Peak Voltage (V) (0.5K Ω)			44 V	0.63
Peak Voltage (V) (2K Ω)			80 V	2.48
Peak Voltage (V) (10K Ω)			112 V	11.80
Cycle of Mode 4	N/A			
Intensity			Max	Min
Peak Voltage (V) (0.5K Ω)			44 V	0.63
Peak Voltage (V) (2K Ω)			80 V	2.48
Peak Voltage (V) (10K Ω)			112 V	11.80
Cycle of Mode 5	N/A			
Intensity			Max	Min
Peak Voltage (V) (0.5K Ω)			44 V	0.63
Peak Voltage (V) (2K Ω)			80 V	2.48
Peak Voltage (V) (10K Ω)			112 V	11.80

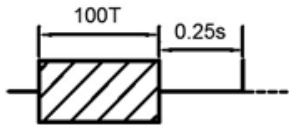
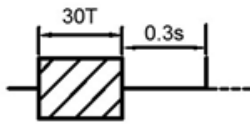
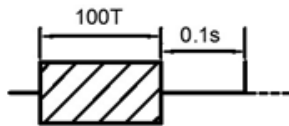
Cycle of Mode 6	N/A		
Intensity		Max	Min
Peak Voltage (V) (0.5KΩ)		44 V	0.63
Peak Voltage (V) (2KΩ)		80 V	2.48
Peak Voltage (V) (10K Ω)		112 V	11.80
Cycle of Mode 7	N/A		
Intensity		Max	Min
Peak Voltage (V) (0.5KΩ)		44 V	0.63
Peak Voltage (V) (2KΩ)		80 V	2.48
Peak Voltage (V) (10K Ω)		112 V	11.80
Cycle of Mode 8	N/A		
Intensity		Max	Min
Peak Voltage (V) (0.5KΩ)		44 V	0.63
Peak Voltage (V) (2KΩ)		80 V	2.48
Peak Voltage (V) (10K Ω)		112 V	11.80
Cycle of Mode 9	N/A		

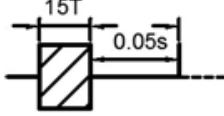
Intensity		Max	Min
Peak Voltage (V) (0.5K Ω)		44 V	0.63
Peak Voltage (V) (2K Ω)		80 V	2.48
Peak Voltage (V) (10K Ω)		112 V	11.80
Cycle of Mode 10	N/A		
Intensity		Max	Min
Peak Voltage (V) (0.5K Ω)		44 V	0.63
Peak Voltage (V) (2K Ω)		80 V	2.48
Peak Voltage (V) (10K Ω)		112 V	11.80
Cycle of Mode 11	N/A		
Intensity		Max	Min
Peak Voltage (V) (0.5K Ω)		44 V	0.63
Peak Voltage (V) (2K Ω)		80 V	2.48
Peak Voltage (V) (10K Ω)		112 V	11.80
Cycle of Mode 12	N/A		
Intensity		Max	Min
Peak Voltage (V) (0.5K Ω)		44 V	0.63

Peak Voltage (V) (2K Ω)		80 V	2.48
Peak Voltage (V) (10K Ω)		112 V	11.80
Cycle of Mode 13	N/A		
Intensity		Max	Min
Peak Voltage (V) (0.5K Ω)		44 V	0.63
Peak Voltage (V) (2K Ω)		80 V	2.48
Peak Voltage (V) (10K Ω)		112 V	11.80
Cycle of Mode 14	N/A		
Intensity		Max	Min
Peak Voltage (V) (0.5K Ω)		44 V	0.63
Peak Voltage (V) (2K Ω)		80 V	2.48
Peak Voltage (V) (10K Ω)		112 V	11.80
Cycle of Mode 15	N/A		
Intensity		Max	Min
Peak Voltage (V) (0.5K Ω)		44 V	0.63
Peak Voltage (V) (2K Ω)		80 V	2.48

Peak Voltage (V) (10K Ω)		112 V	11.80
Cycle of Mode 16	N/A		
Intensity		Max	Min
Peak Voltage (V) (0.5K Ω)		44 V	0.63
Peak Voltage (V) (2K Ω)		80 V	2.48
Peak Voltage (V) (10K Ω)		112 V	11.80
Cycle of Mode 17	N/A		
Intensity		Max	Min
Peak Voltage (V) (0.5K Ω)		44 V	0.63
Peak Voltage (V) (2K Ω)		80 V	2.48
Peak Voltage (V) (10K Ω)		112 V	11.80
Cycle of Mode 18	N/A		
Intensity		Max	Min
Peak Voltage (V) (0.5K Ω)		44 V	0.63
Peak Voltage (V) (2K Ω)		80 V	2.48

Peak Voltage (V) (10K Ω)			112 V	11.80
Cycle of Mode 19	N/A			
Intensity			Max	Min
Peak Voltage (V) (0.5K Ω)			44 V	0.63
Peak Voltage (V) (2K Ω)			80 V	2.48
Peak Voltage (V) (10K Ω)			112 V	11.80
Cycle of Mode 20	N/A			
Intensity			Max	Min
Peak Voltage (V) (0.5K Ω)			44 V	0.63
Peak Voltage (V) (2K Ω)			80 V	2.48
Peak Voltage (V) (10K Ω)			112 V	11.80
Cycle of Mode 21				
Intensity	Max	Min	Max	Min
Peak Voltage (V) (0.5K Ω)	44 V	0.63	44 V	0.63
Peak Voltage (V) (2K Ω)	80 V	2.48	80 V	2.48

Peak Voltage (V) (10K Ω)	112 V	11.80	112 V	11.80
Cycle of Mode 22	N/A			
Intensity			Max	Min
Peak Voltage (V) (0.5K Ω)			44 V	0.63
Peak Voltage (V) (2K Ω)			80 V	2.48
Peak Voltage (V) (10K Ω)			112 V	11.80
Cycle of Mode 23	N/A			
Intensity			Max	Min
Peak Voltage (V) (0.5K Ω)			44 V	0.63
Peak Voltage (V) (2K Ω)			80 V	2.48
Peak Voltage (V) (10K Ω)			112 V	11.80
Cycle of Mode 24	N/A			
Intensity			Max	Min
Peak Voltage (V) (0.5K Ω)			44 V	0.63
Peak Voltage (V) (2K Ω)			80 V	2.48

Peak Voltage (V) (10K Ω)		112 V	11.80
Cycle of Mode 25	N/A		
Intensity		Max	Min
Peak Voltage (V) (0.5K Ω)		44 V	0.63
Peak Voltage (V) (2K Ω)		80 V	2.48
Peak Voltage (V) (10K Ω)		112 V	11.80

Note 1 (Weight, Dimension):

These data would be different for different devices because the internal circuit design and components choosing are different, which make them have similar difference on weight, dimensions. But weight and dimensions won't affect the safety and effectiveness of the device so it can deem as the substantially equivalence.

Note 2 (Number of Output Modes):

Although the "Number of Output Modes" of subject device are different from the predicate devices, they are all comply with IEC 60601-1 and IEC 60601-2-10 requirements. So, the differences of the function specifications will not raise any safety or effectiveness issue.

Note 3 (Time Range):

The design of the time range is basing on the intended use. And according to the output specification comparing with the predicated devices, we set the default treatment time is 15min and the user could adjust the levels which could meet the requirements in the energy aspect. Thus, the subject device is the same as predicated ones.

Note 4 (Environment for Operating and storage):

These data are to specify the condition of working, transportation and storage, for different device, the internal circuit design and components choosing are different, so they also have similar difference on working or storage conditions. But the temperature, RH are approximate and complied with the normal conditions, so it can be deemed as the substantially equivalence.

Final conclusion:

The nonclinical tests and comparison demonstrate that the subject device "Physiotherapy instrument model: AST-2011A, AST-2011B, AST-802B" is as safe, as effective, and performs as well as the predicate devices "Health Expert Electronic Stimulator AST-300C, AST-300D". So the subject device is Substantial Equivalent to predicate device K133929.

8. Date of the summary prepared: October 17, 2018