



**BUREAU
VERITAS**

Test Report No.: FM180327N044

RF EXPOSURE REPORT

Applicant	Seura Inc
Address	1230 Ontario Road Green Bay, WI 54311, USA

Manufacturer or Supplier	TOP LOYAL ELECTRONICS Co., LTD
Address	Guangming Av., Dongcheng District, Dongguan City, Guangdong, China
Product	Seura soundbar
Brand Name	Seura
Model	SPK-65
Additional Model & Model Difference	SPK-86, SPK-55, SPK-49
Date of tests	Mar. 27, 2018 ~ May 03, 2018

☒ **FCC Part 2 (Section 2.1091)**

☒ **KDB 447498 D01**

☒ **IEEE C95.1**

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Tested by Andy Zhu Project Engineer / EMC Department	Approved by Glyn He Supervisor/ EMC Department
	 Date: Jun. 08, 2018

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FM180327N044	Original release	Jun. 08, 2018

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1. CERTIFICATION

FCC ID:	2APLN-SPK1
PRODUCT:	Seura soundbar
BRAND NAME:	Seura
MODEL NO.:	SPK-65
ADDITIONAL NO.:	SPK-86, SPK-55, SPK-49
APPLICANT:	Seura Inc
STANDARDS:	FCC Part 2 (Section 2.1091)
	KDB 447498 D01
	IEEE C95.1



2. RF EXPOSURE LIMIT

LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

FREQUENCY RANGE (MHz)	ELECTRIC FIELD STRENGTH (V/m)	MAGNETIC FIELD STRENGTH (A/m)	POWER DENSITY (mW/cm ²)	AVERAGE TIME (minutes)
LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE				
300-1500	...	...	F/1500	30
1500-100,000	...	...	1.0	30

F = Frequency in MHz

3. MPE CALCULATION FORMULA

$$P_d = (P_{out} * G) / (4 * \pi * r^2)$$

where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

R = distance between observation point and center of the radiator in cm

4. CLASSIFICATION

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as **Mobile Device**.



5. ANTENNA GAIN

The antennas provided to the EUT, please refer to the following table:

Transmitter Circuit	Peak Gain (dBi)	Antenna Type
Chain 0	0	FPC Antenna

6. CALCULATION RESULT OF MAXIMUM CONDUCTED AV POWER

The tuned conducted Average Power (declared by client)

Mode	Frequency (MHz)	Target Power (dBm)	Tolerance (dBm)	Lower Tolerance (dBm)	Upper Tolerance (dBm)
BT-LE(GFSK)	2402-2480	6	+/-2	4	8
GFSK	2402-2480	5	+/-2	3	7
8DPSK	2402-2480	3	+/-2	1	5

The measured conducted Average Power

Mode	Frequency (MHz)	Averaged Power (dBm)
BT-LE(GFSK)	2480	7.35
GFSK	2480	6.86
8DPSK	2480	4.47

FREQUENCY BAND (MHz)	MAX AVERAGE POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm ²)	LIMIT (mW/cm ²)
2402-2480	8	0	20	0.0012552	1.0

--- END ---