Client:	Kinsa Inc.	Job Number:	PR093745
Model:	KSA-110	T-Log Number:	TL093745-EMC
		Project Manager:	Christine Krebill
Contact:	David Gal	Project Coordinator:	David Bare
Standard:	EN 60601-1-2 Ed.4, EN 301-489, FCC §15.247, RSS-247	Class:	N/A

SAR Exclusion

Test Specific Details

Objective: The objective of this test session is to perform final qualification testing of the EUT with respect to the specification listed above.

Date of Test: 2/11/2019

Test Engineer: David Bare

General Test Configuration

MPE Calculation uses the free space transmission formula:

$$S = (PG)/(4\ \pi d^2)$$

Where: S is power density (W/m^2), P is output power (W), G is antenna gain relative to isotropic, d is separation distance from the transmitting antenna (m).

SAR Exclusioin calculation uses the formula for FCC KDB 447498:

$$[(\text{max. power in mW}) / (\text{min. test separation distance in mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$$

Summary of Results

Device complies with SAR exclusion at 5mm separation:	Yes

Deviations From The Standard

No deviations were made from the requirements of the standard.

FCC SAR Exclusion Calculation

Freq. MHz	EUT Power dBm	EUT Power mW*	Cable Loss Loss dB	Ant Gain dBi	Power at Ant dBm	EIRP mW	Separation Distance (mm)	SAR Exclusion Calc.	SAR Exclusion Limit
2402	4.9	3.1	0	-4.1	4.9	1.20	5.0	0.96	3.0
2440	4.7	3.0	0	-4.1	4.7	1.15	5.0	0.92	3.0
2480	-0.5	0.9	0	-4.1	-0.5	0.35	5.0	0.28	3.0

Industry Canada SAR Exclusion Calculation (Highest of output power or EIRP)

Freq. MHz	EUT Power dBm	EUT Power mW*	Cable Loss Loss dB	Ant Gain dBi	Power at Ant dBm	EIRP mW	Separation Distance (mm)	Maximum Power or EIRP	SAR Exclusion Limit (mW)
2402	4.9	3.1	0	-4.1	4.9	1.20	5.0	3.09	4 mW
2440	4.7	3.0	0	-4.1	4.7	1.15	5.0	2.95	4 mW
2480	-0.5	0.9	0	-4.1	-0.5	0.35	5.0	0.89	4 mW