Statement of compliance to Maximum Permissible Exposure (MPE) No. 190100007SHA-009

Applicant	:	Haier US Appliance Solutions, Inc. Appliance Park AP2-226, Louisville, KY, 40225, United States
Manufacturer	:	Haier US Appliance Solutions, Inc. Appliance Park AP2-226, Louisville, KY, 40225, United States
Product Name	:	KITCHEN HUB
Type/Model	:	UVH13012M1SS
Additional Model	:	UVH13012M2SS, UVH13012M3SS, UVH13012M4SS, UVH13012M5SS, UVH13013M1DS, UVH13013M2DS, UVH13013M3DS, UVH13013M4DS, UVH13013M5DS, UVH13014M1WM, UVH13014M2WM, VH13014M3WM, UVH13014M4WM, UVH13014M5WM, UVH13013M1TS, UVH13013M2TS, UVH13013M3TS, UVH13013M4TS, UVH13013M5TS

According to §2.1091, §2.1093 and §1.1307(b), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

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Prepared by:

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Reviewed by:

Daniel Zhao (Reviewer)

Power density (S) is calculated according to the formula:

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

Where S = power density in mW/cm^2

P = transmit power in mW

G = numeric gain of transmit antenna (numeric gain=Log-1(dB antenna gain/10))

R = distance (cm)

The calculations in the table below use the highest gain of antenna for client EUT. These calculations represent worst case in terms of the exposure levels.

Frequency band	Power		Antenna Gain		R	S	Limits
(MHz)	dBm	mW	dBi	(Numeric)	(cm)	(mW/cm^2)	(mW/cm^2)
2402 - 2480	8.71	7.43	3.1	2.04	20	0.003	1
2402 - 2480	2.30	1.70	3.1	2.04	20	0.001	1
2402 - 2480	-4.10	0.39	1.6	1.45	20	0.0001	1
2412 - 2462	16.79	47.75	3.1	2.04	20	0.019	1
2405 - 2480	10.32	10.76	1.5	1.41	20	0.003	1
908.42 – 908.42	-6.70	0.21	-1.0	0.79	20	0.00003	0.454
5180 - 5240	10.73	11.83	2.7	1.86	20	0.004	1
5260 - 5320	10.83	12.11	2.7	1.86	20	0.004	1
5500 - 5700	13.35	21.63	2.7	1.86	20	0.008	1
5745 - 5825	12.87	19.36	2.7	1.86	20	0.007	1

Frequency band	Max Permit Power with tolerance		Antenna Gain		R	S	Limits
(MHz)	dBm	mW	dBi	(Numeric)	(cm)	(mW/cm^2)	(mW/cm^2)
2402 - 2480	9.00	7.94	3.1	2.04	20	0.003	1
2402 - 2480	3.00	2.00	3.1	2.04	20	0.001	1
2402 - 2480	-3.00	0.50	1.6	1.45	20	0.0001	1
2412 - 2462	17.00	50.12	3.1	2.04	20	0.020	1
2405 - 2480	11.00	12.59	1.5	1.41	20	0.003	1
908.42 – 908.42	-5.00	0.32	-1.0	0.79	20	0.0001	0.454
5180 - 5240	11.00	12.59	2.7	1.86	20	0.005	1
5260 - 5320	11.00	12.59	2.7	1.86	20	0.005	1
5500 - 5700	14.00	25.12	2.7	1.86	20	0.009	1
5745 - 5825	14.00	25.12	2.7	1.86	20	0.009	1

Note: 1 mW/cm^2 from 1.310 Table 1

For the device can support simultaneous transmission, according to 447498 D01 General RF Exposure Guidance v06, For the device consider simultaneous transmission of WIFI2.4G/5G/BT/BLE, ZigBee and Z-Wave, BLE,

The worst MPE = 0.020 + 0.003 + 0.0001 + 0.0001 = **0.0232** mW/cm^2< **1** mW/cm^2.

Appendix I

Definition below must be outlined in the User Manual:

To satisfy FCC RF exposure requirements, a separation distance of **20** cm or more should be maintained between the antenna of this device and persons during device operation.
To ensure compliance, operations at closer than this distance is not recommended.