

RF Exposure Report

Report No.: SABEKS-WTW-P20120793

FCC ID: GV3M01552

Test Model: M01552

Received Date: Oct. 23, 2020

Test Date: Nov. 04 ~ Nov. 06, 2020

Issued Date: Jan. 07, 2021

Applicant: ACCO Brands, Inc.

Address: 1500 Fashion Island Blvd., 3rd Floor, San Mateo, CA 94404, USA

Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Lin Kou Laboratories

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FCC Registration / 788550 / TW0003
Designation Number:



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Release Control Record

Issue No.	Description	Date Issued
SABEKS-WTW-P20120793	Original release	Jan. 07, 2021

1 Certificate of Conformity

Product: Watch Charger for StudioDock

Brand: Kensington

Test Model: M01552

Sample Status: Identical Prototype

Applicant: ACCO Brands, Inc.

Test Date: Nov. 04 ~ Nov. 06, 2020

Standards: FCC Part 1 (Section 1.1307(b), Section 1.1310)
FCC Part 2 (Section 2.1091)

References Test IEEE C95.3 -2002

Guidance: KDB 680106 D01 RF Exposure Wireless Charging Apps v03

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

Prepared by : Celine Chou , **Date:** Jan. 07, 2021
Celine Chou / Senior Specialist

Approved by : Bruce Chen , **Date:** Jan. 07, 2021
Bruce Chen / Senior Project Engineer

2 General Information

2.1 General Description of EUT

Product	Watch Charger for StudioDock
Brand	Kensington
Test Model	M01552
Sample Status	Identical Prototype
Power Supply Rating	5Vdc (adapter)
Modulation Type	ASK
Operating Frequency	326.5kHz
Antenna Type	Coil antenna (The Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible)
Field Strength	-25.20dBuV/m
Dimension for Apple watch inductive coil	3.80cm ² (diameter = 22mm)
Accessory Device	NA
Data Cable Supplied	Refer to Note as below
Maximum Power Output for Apple watch charging coil	5W

Note: The EUT contains following accessory devices.

Product	Brand	Model	Description
USB cable	LUXSHARE-ICT	LV8U2004-CS-H	2m shielded without core

3 RF Exposure

3.1 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	Load	NA	NA	NA	NA	For 326.5kHz
B.	Adapter	LITEON	PA-1059-39	NA	NA	-
C.	StudioDock	Kensington	M01513	NA	GV3M01513	Provided by manufacturer
D.	Adapter	LITEON	PA-1131-72	NA	NA	Provided by manufacturer

Note: All power cords of the above support units are non-shielded (1.8m).

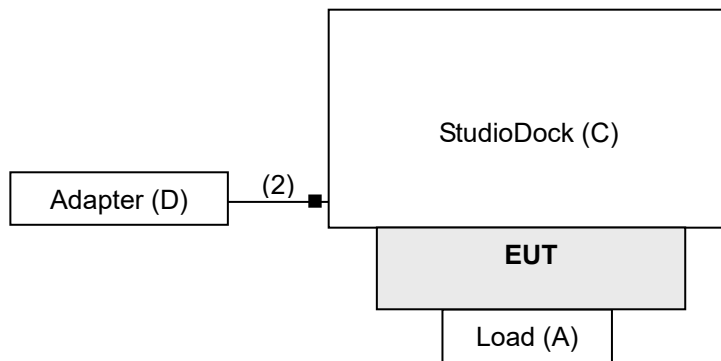
ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	USB Cable	1	2.0	Y	0	Accessory of EUT
2.	Power Cable	1	1.6	N	1	Provided by manufacturer Attached on adapter

Note: The core(s) is(are) originally attached to the cable(s).

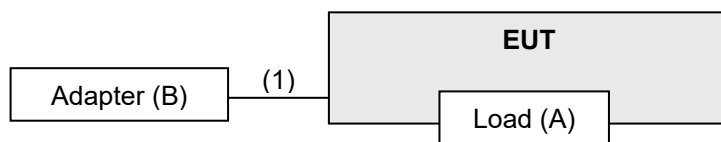
3.1.1 Configuration of System under Test

Charging Mode:

EUT (wireless charging to Load for 326.5kHz) + StudioDock

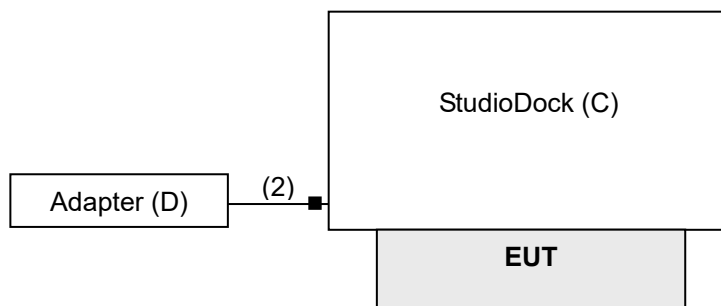


EUT (wireless charging to Load for 326.5kHz)

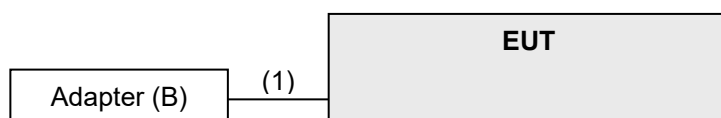


Standby Mode:

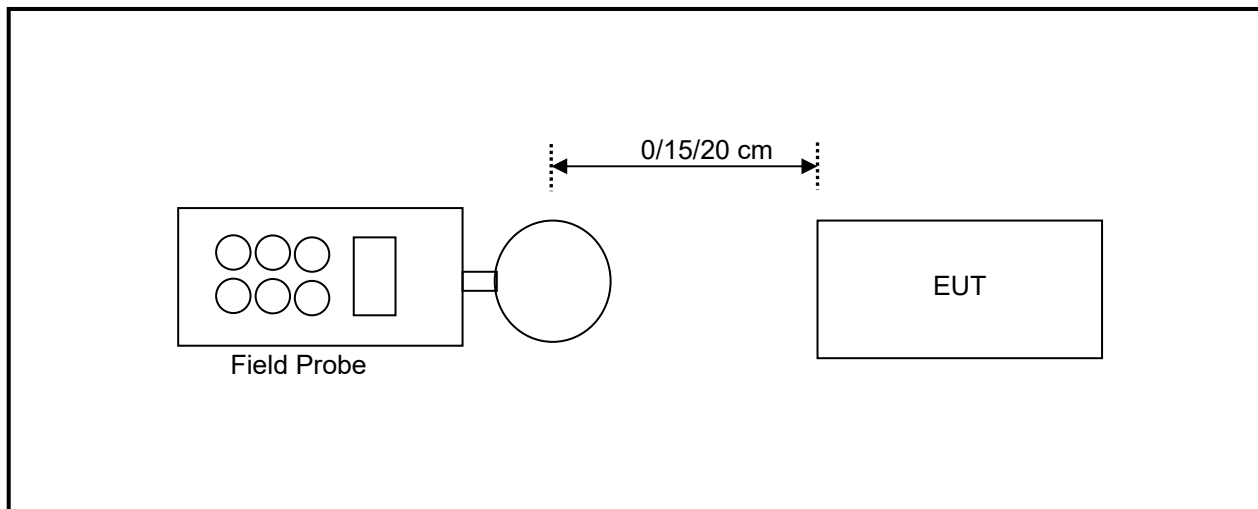
EUT + StudioDock



EUT only



3.2 Test Setup



Note: Measurements were made from all sides and the top of the primary/client pair, with the 15/20cm measured from the center of the probe(s) to the edge of the device.

3.3 Test Instruments

Description	Brand	Model No.	Frequency Range	Calibrated Date	Calibrated Until
Electric Field Meter	EMC Master	SMP2 dual	-	Nov. 03, 2020	Nov. 02, 2021
Field Probe	EMC Master	WP400	-	Nov. 03, 2020	Nov. 02, 2021

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

2. The test was performed in HwaYa RF Chamber

3.4 Limits for Maximum Permissible Exposure (MPE)

§ 1.1310 The criteria listed in table 1 shall be used to evaluate the environmental impact of human exposure to radiofrequency(RF) radiation as specified in § 1.1307(b), except in the case of portable devices which shall be evaluated according to the provisions of § 2.1093 of this chapter.

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3–3.0	614	1.63	*(100)	6
3.0–30	1842/f	4.89/f	*(900/f ²)	6
30–300	61.4	0.163	1.0	6
300–1500			f/300	6
1500–100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3–1.34	614	1.63	*(100)	30
1.34–30	824/f	2.19/f	*(180/f ²)	30
30–300	27.5	0.073	0.2	30
300–1500			f/1500	30
1500–100,000			1.0	30

f = frequency in MHz

* = Plane-wave equivalent power density

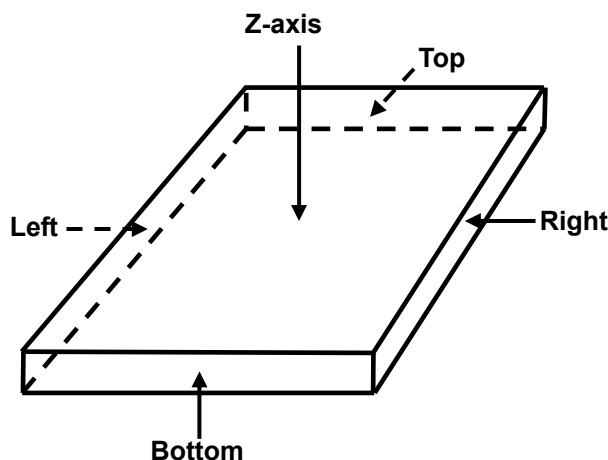
NOTE 1 TO TABLE 1: Occupational/controlled limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations when an individual is transient through a location where occupational/controlled limits apply provided he or she is made aware of the potential for exposure.

NOTE 2 TO TABLE 1: General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or can not exercise control over their exposure.

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The aggregate H-fields strengths at 15 or 0cm surrounding the device and 20 or 0cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.

3.5 Test Point Description



4. Calculation Result of Maximum Conducted Power

For 326.5kHz (Charging Mode) – EUT + StudioDock (Brand: Kensington, Model: M01513, FCC ID: GV3M01513)

Charging Mode with Load, battery 10% Charge

E-Field (15cm)							E-Field (20cm)
Frequency (kHz)	EUT Side	Left	Right	Top	Bottom	Z-axis (Above)	Z-axis (Above)
326.5	Max E-field (V/m)	0.8600	0.8500	0.8900	0.8100	0.9300	0.7600
326.5	Limit (V/m)	614	614	614	614	614	614
326.5	Margin (V/m)	-613.1400	-613.1500	-613.1100	-613.1900	-613.0700	-613.2400
326.5	50 % Limit (V/m)	307	307	307	307	307	307
326.5	50 % Margin (V/m)	-306.1400	-306.1500	-306.1100	-306.1900	-306.0700	-306.2400

H-Field (15cm)							H-Field (20cm)
Frequency (kHz)	EUT Side	Left	Right	Top	Bottom	Z-axis (Above)	Z-axis (Above)
326.5	Max H-field (uT)	0.0587	0.0578	0.0582	0.0571	0.0624	0.0493
326.5	Max H-field (A/m)	0.0470	0.0462	0.0466	0.0457	0.0499	0.0394
326.5	Limit (A/m)	1.63	1.63	1.63	1.63	1.63	1.63
326.5	Margin (A/m)	-1.5830	-1.5838	-1.5834	-1.5843	-1.5801	-1.5906
326.5	50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815	0.815
326.5	50 % Margin (A/m)	-0.7680	-0.7688	-0.7684	-0.7693	-0.7651	-0.7756

Measurements were made from all sides and the top of the primary/client pair, with the 15/20cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.

Charging Mode with Load, battery 50% Charge

E-Field (15cm)							E-Field (20cm)
Frequency (kHz)	EUT Side	Left	Right	Top	Bottom	Z-axis (Above)	Z-axis (Above)
326.5	Max E-field (V/m)	1.0100	0.9800	1.0200	0.9300	1.0500	0.8700
326.5	Limit (V/m)	614	614	614	614	614	614
326.5	Margin (V/m)	-612.9900	-613.0200	-612.9800	-613.0700	-612.9500	-613.1300
326.5	50 % Limit (V/m)	307	307	307	307	307	307
326.5	50 % Margin (V/m)	-305.9900	-306.0200	-305.9800	-306.0700	-305.9500	-306.1300

H-Field (15cm)							H-Field (20cm)
Frequency (kHz)	EUT Side	Left	Right	Top	Bottom	Z-axis (Above)	Z-axis (Above)
326.5	Max H-field (uT)	0.0638	0.0629	0.0633	0.0622	0.0675	0.0556
326.5	Max H-field (A/m)	0.0510	0.0503	0.0506	0.0498	0.0540	0.0445
326.5	Limit (A/m)	1.63	1.63	1.63	1.63	1.63	1.63
326.5	Margin (A/m)	-1.5790	-1.5797	-1.5794	-1.5802	-1.5760	-1.5855
326.5	50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815	0.815
326.5	50 % Margin (A/m)	-0.7640	-0.7647	-0.7644	-0.7652	-0.7610	-0.7705

Measurements were made from all sides and the top of the primary/client pair, with the 15/20cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.

Charging Mode with Load, battery Max Charge

E-Field (15cm)							E-Field (20cm)
Frequency (kHz)	EUT Side	Left	Right	Top	Bottom	Z-axis (Above)	Z-axis (Above)
326.5	Max E-field (V/m)	1.1200	1.1000	1.1400	1.0500	1.1800	0.9600
326.5	Limit (V/m)	614	614	614	614	614	614
326.5	Margin (V/m)	-612.8800	-612.9000	-612.8600	-612.9500	-612.8200	-613.0400
326.5	50 % Limit (V/m)	307	307	307	307	307	307
326.5	50 % Margin (V/m)	-305.8800	-305.9000	-305.8600	-305.9500	-305.8200	-306.0400

H-Field (15cm)							H-Field (20cm)
Frequency (kHz)	EUT Side	Left	Right	Top	Bottom	Z-axis (Above)	Z-axis (Above)
326.5	Max H-field (uT)	0.0687	0.0679	0.0682	0.0674	0.0724	0.0593
326.5	Max H-field (A/m)	0.0550	0.0543	0.0546	0.0539	0.0579	0.0474
326.5	Limit (A/m)	1.63	1.63	1.63	1.63	1.63	1.63
326.5	Margin (A/m)	-1.5750	-1.5757	-1.5754	-1.5761	-1.5721	-1.5826
326.5	50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815	0.815
326.5	50 % Margin (A/m)	-0.7600	-0.7607	-0.7604	-0.7611	-0.7571	-0.7676

Measurements were made from all sides and the top of the primary/client pair, with the 15/20cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.

For 326.5kHz (Charging Mode) – EUT only

Charging Mode with Load, battery 10% Charge

E-Field (0cm)						
Frequency (kHz)	EUT Side	Left	Right	Top	Bottom	Z-axis (Above)
326.5	Max E-field (V/m)	1.1800	1.1600	1.2400	1.2100	1.2500
326.5	Limit (V/m)	614	614	614	614	614
326.5	Margin (V/m)	-612.8200	-612.8400	-612.7600	-612.7900	-612.7500
326.5	50 % Limit (V/m)	307	307	307	307	307
326.5	50 % Margin (V/m)	-305.8200	-305.8400	-305.7600	-305.7900	-305.7500

H-Field (0cm)						
Frequency (kHz)	EUT Side	Left	Right	Top	Bottom	Z-axis (Above)
326.5	Max H-field (uT)	0.0854	0.0866	0.0872	0.0859	0.0882
326.5	Max H-field (A/m)	0.0683	0.0693	0.0698	0.0687	0.0706
326.5	Limit (A/m)	1.63	1.63	1.63	1.63	1.63
326.5	Margin (A/m)	-1.5617	-1.5607	-1.5602	-1.5613	-1.5594
326.5	50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815
326.5	50 % Margin (A/m)	-0.7467	-0.7457	-0.7452	-0.7463	-0.7444

Measurements were made from all sides and the top of the primary/client pair, with the 0cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.

Charging Mode with Load, battery 50% Charge

E-Field (0cm)						
Frequency (kHz)	EUT Side	Left	Right	Top	Bottom	Z-axis (Above)
326.5	Max E-field (V/m)	1.2200	1.2100	1.2700	1.2600	1.3200
326.5	Limit (V/m)	614	614	614	614	614
326.5	Margin (V/m)	-612.7800	-612.7900	-612.7300	-612.7400	-612.6800
326.5	50 % Limit (V/m)	307	307	307	307	307
326.5	50 % Margin (V/m)	-305.7800	-305.7900	-305.7300	-305.7400	-305.6800

H-Field (0cm)						
Frequency (kHz)	EUT Side	Left	Right	Top	Bottom	Z-axis (Above)
326.5	Max H-field (uT)	0.0908	0.0913	0.0921	0.0911	0.0932
326.5	Max H-field (A/m)	0.0726	0.0730	0.0737	0.0729	0.0746
326.5	Limit (A/m)	1.63	1.63	1.63	1.63	1.63
326.5	Margin (A/m)	-1.5574	-1.5570	-1.5563	-1.5571	-1.5554
326.5	50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815
326.5	50 % Margin (A/m)	-0.7424	-0.7420	-0.7413	-0.7421	-0.7404

Measurements were made from all sides and the top of the primary/client pair, with the 0cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.

Charging Mode with Load, battery Max Charge

E-Field (0cm)						
Frequency (kHz)	EUT Side	Left	Right	Top	Bottom	Z-axis (Above)
326.5	Max E-field (V/m)	1.2600	1.2400	1.2900	1.2900	1.3800
326.5	Limit (V/m)	614	614	614	614	614
326.5	Margin (V/m)	-612.7400	-612.7600	-612.7100	-612.7100	-612.6200
326.5	50 % Limit (V/m)	307	307	307	307	307
326.5	50 % Margin (V/m)	-305.7400	-305.7600	-305.7100	-305.7100	-305.6200

H-Field (0cm)						
Frequency (kHz)	EUT Side	Left	Right	Top	Bottom	Z-axis (Above)
326.5	Max H-field (uT)	0.0958	0.0963	0.0974	0.0959	0.0988
326.5	Max H-field (A/m)	0.0766	0.0770	0.0779	0.0767	0.0790
326.5	Limit (A/m)	1.63	1.63	1.63	1.63	1.63
326.5	Margin (A/m)	-1.5534	-1.5530	-1.5521	-1.5533	-1.5510
326.5	50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815
326.5	50 % Margin (A/m)	-0.7384	-0.7380	-0.7371	-0.7383	-0.7360

Measurements were made from all sides and the top of the primary/client pair, with the 0cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.

For 326.5kHz (Standby Mode) – EUT + StudioDock (Brand: Kensington, Model: M01513, FCC ID: GV3M01513)

Standby Mode

E-Field (15cm)							E-Field (20cm)
Frequency (kHz)	EUT Side	Left	Right	Top	Bottom	Z-axis (Above)	Z-axis (Above)
326.5	Max E-field (V/m)	0.4400	0.4500	0.4300	0.4100	0.4700	0.3600
326.5	Limit (V/m)	614	614	614	614	614	614
326.5	Margin (V/m)	-613.5600	-613.5500	-613.5700	-613.5900	-613.5300	-613.6400
326.5	50 % Limit (V/m)	307	307	307	307	307	307
326.5	50 % Margin (V/m)	-306.5600	-306.5500	-306.5700	-306.5900	-306.5300	-306.6400

H-Field (15cm)							H-Field (20cm)
Frequency (kHz)	EUT Side	Left	Right	Top	Bottom	Z-axis (Above)	Z-axis (Above)
326.5	Max H-field (uT)	0.0378	0.0379	0.0381	0.0374	0.0383	0.0294
326.5	Max H-field (A/m)	0.0302	0.0303	0.0305	0.0299	0.0306	0.0235
326.5	Limit (A/m)	1.63	1.63	1.63	1.63	1.63	1.63
326.5	Margin (A/m)	-1.5998	-1.5997	-1.5995	-1.6001	-1.5994	-1.6065
326.5	50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815	0.815
326.5	50 % Margin (A/m)	-0.7848	-0.7847	-0.7845	-0.7851	-0.7844	-0.7915

Measurements were made from all sides and the top of the primary/client pair, with the 15/20cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.

For 326.5kHz (Standby Mode) – EUT only
Standby Mode

E-Field (0cm)						
Frequency (kHz)	EUT Side	Left	Right	Top	Bottom	Z-axis (Above)
326.5	Max E-field (V/m)	0.6100	0.5900	0.6200	0.6000	0.6500
326.5	Limit (V/m)	614	614	614	614	614
326.5	Margin (V/m)	-613.3900	-613.4100	-613.3800	-613.4000	-613.3500
326.5	50 % Limit (V/m)	307	307	307	307	307
326.5	50 % Margin (V/m)	-306.3900	-306.4100	-306.3800	-306.4000	-306.3500

H-Field (0cm)						
Frequency (kHz)	EUT Side	Left	Right	Top	Bottom	Z-axis (Above)
326.5	Max H-field (uT)	0.0498	0.0502	0.0503	0.0497	0.0504
326.5	Max H-field (A/m)	0.0398	0.0402	0.0402	0.0398	0.0403
326.5	Limit (A/m)	1.63	1.63	1.63	1.63	1.63
326.5	Margin (A/m)	-1.5902	-1.5898	-1.5898	-1.5902	-1.5897
326.5	50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815
326.5	50 % Margin (A/m)	-0.7752	-0.7748	-0.7748	-0.7752	-0.7747

Measurements were made from all sides and the top of the primary/client pair, with the 0cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.

5. Photographs of the Test Configuration

Please refer to the attached file (Test Setup Photo).

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