RF Exposure Report

Report No.:	SARFBHCP-WTW-P21030276
FCC ID:	ACJ932AZ1801
Test Model:	AZ1801
Series Model:	CQ-RZ38A0AN, CQ-RZ38A1AN, CQ-RZ38A2AN, CQ-RZ19A0AN, CQ-RZ19A1AN, CQ-RZ39A0AN, CQ-RZ39A1AN, CQ-RZ39A2AN, CQ-RZ1AA0AN, CQ-RZ1AA1AN, CQ-RZ1AA2AN, CQ-RZ19A2AN, CQ-RZ38A0NT, CQ-RZ38A2NT, CQ-RZ19A0NT, CQ-RZ19A1NT, CQ-RZ19A2NT, CQ-RZ39A0NT, CQ-RZ39A1NT, CQ-RZ39A2NT, CQ-RZ1AA0NT, CQ-RZ1AA1NT, CQ-RZ1AA2NT, CQ-RZNBA0NT (Refer to item 2.1 for more detail)
Received Date:	Dec. 27, 2018
Date of Evaluation:	Jan. 09 ~ Jan. 15, 2019
Issued Date:	Apr. 20, 2021
Applicant:	Panasonic Automotive Systems Asia Pacific Co., Ltd
Address:	101 Moo 2 Teparak Rd., T. Bangsaothong,A. Bangsaothong, Samutprakarn 10570 Thailand
Manufacture:	Panasonic Automotive Systems Asia Pacific Co., Ltd.
Manufacture's address:	101 Moo 2 Teparak Rd., T. Bangsaothong,A. Bangsaothong, Samutprakarn 10570 Thailand
Factory:	Panasonic Automotive Systems Asia Pacific Co., Ltd.
Factory's address:	101 Moo 2 Teparak Rd., T. Bangsaothong,A. Bangsaothong, Samutprakarn 10570 Thailand
Issued By:	Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch Lin Kou Laboratories
Lab Address:	No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan
Test Location:	No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City 33383, TAIWAN
FCC Registration / Designation Number:	788550 / TW0003

Testing Laboratory
2021

Table of Contents

Release Control Record

Issue No.	Description	Date Issued
SARFBHCP-WTW-P21030276	Original Release	Apr. 20, 2021

1 Certificate of Conformity

Product:	Car Audio
Brand:	Panasonic
Test Model:	AZ1801
Series Model:	CQ-RZ38A0AN, CQ-RZ38A1AN, CQ-RZ38A2AN, CQ-RZ19A0AN, CQ-RZ19A1AN, CQ-RZ39A0AN, CQ-RZ39A1AN, CQ-RZ39A2AN, CQ-RZ1AA0AN, CQ-RZ1AA1AN, CQ-RZ1AA2AN, CQ-RZ19A2AN, CQ-RZ38A0NT, CQ-RZ38A2NT, CQ-RZ19A0NT, CQ-RZ19A1NT, CQ-RZ19A2NT, CQ-RZ39A0NT, CQ-RZ39A1NT, CQ-RZ39A2NT, CQ-RZ1AA0NT, CQ-RZ1AA1NT, CQ-RZ1AA2NT, CQ-RZNBA0NT (Refer to item 2.1 for more detail)
Sample Status:	Engineering sample
Applicant:	Panasonic Automotive Systems Asia Pacific Co., Ltd
Date of Evaluation:	Jan. 09 ~ Jan. 15, 2019
Standards:	FCC Part 2 (Section 2.1091)
References Test Guidance :	KDB 447498 D01 General RF Exposure Guidance v06 IEEE C95.3 -2002

This report is issued as a supplementary report to BV CPS report no.: SA181227C16A. This report shall be used by combining with its original report.

Prepared by : Gina Liu , **Date:** Apr. 20, 2021

Gina Liu / Specialist

Approved by : , **Date:** Apr. 20, 2021

Dylan Chiou / Senior Project Engineer

2 General Information

This report is issued as a supplementary report to BV CPS report no. SA181227C16A. The differences compared with the original report are LCD part & main PCB reduce size change and adding new model (CQ-RZNBA0NT). Due to the same conducted power of EUT and we didn't re-calculated MPE value.

3 RF Exposure

3.1 Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm^2)	Average Time (minutes)
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

3.2 MPE Calculation Formula

$Pd = (Pout*G) / (4*pi*r^2)$

where

Pd = power density in mW/cm^2

Pout = output power to antenna in mW

G = gain of antenna in linear scale

pi = 3.1416

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

3.3 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**.

3.4 Calculation Result of Maximum Conducted Power

Max Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm^2)	Limit (mW/cm^2)
-0.64	-1.80	20	0.00011	1

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

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