

RF Exposure Evaluation Report

Product : Car stereo
Trade mark : Corehan
: CS-JD-AACP-01,CS-JD-AACP-03,CS-JD-AACP-04,
CS-JD-AACP-05,CS-JD-MP-01,CS-JD-MP-02,
CS-JD-MP-03,CS-JD-PCP-3X,CS-JD-PCP-6X,
CS-JD-PCP-9X,CS-JD-AN-03,CS-JD-AN-03(9-1/16),
CS-JD-AN-03(9-2/32),CDI-CS-JD-AACP-02,
CDI-CS-JD-AACP-N1,CDI-CS-JD-AACP-N2,
CDI-CS-JD-AACP-N3,CDI-CS-JD-AN-05(2/16),
CDI-CS-JD-AN-05(2/32),CDI-CS-JD-AN-05(1/16),
CDI-CS-JD-10AACP-N1,CDI-CS-JD-10AACP-N2,
CDI-CS-JD-10AACP-N3,CDI-CS-JD-10AN-01(2/16),
CDI-CS-JD-10AN-02(2/16),CDI-CS-JD-10AN-01(2/32),
CDI-CS-JD-10AN-02(2/32),CDI-CS-JD-10AN-01(1/16),
CDI-CS-JD-10AN-02(1/16)
Model/Type reference
Test Model No. : CS-JD-AACP-01
Serial Number : N/A
Report Number : EED32O80193802
FCC ID : 2A4OYJD-AACP-01
Date of Issue : Mar. 03, 2022
Test Standards : 47 CFR Part 1.1307
47 CFR Part 2.1093
KDB447498D01 General RF Exposure Guidance v06
Test result : PASS

Prepared for:

COREHAN TECHNOLOGY CO., LIMITED**904,building 10, houlong 2nd st., tongji east rd, chancheng,foshan, china**

Prepared by:

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Mar. 03, 2022

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1 Version

Version No.	Date	Description
00	Mar. 03, 2022	Original

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3 General Information

3.1 Client Information

Applicant:	COREHAN TECHNOLOGY CO., LIMITED
Address of Applicant:	904,building 10, houlong 2nd st., tongji east rd, chancheng,foshan, china
Manufacturer:	COREHAN TECHNOLOGY CO., LIMITED
Address of Manufacturer:	904,building 10, houlong 2nd st., tongji east rd, chancheng,foshan, china
Factory:	Foshan Keerhan electronic technology Co., Limited
Address of Factory:	106, 2 nd building, NO.107,jinyu st.,foshan,china

3.2 General Description of EUT

Product Name:	Car stereo
Mode No.:	Please refer to the "Model/Type reference".
Test Mode No.:	CS-JD-AACP-01
Trade mark:	Corehan
EUT Supports Radios application:	BT Classic:GFSK, $\pi/4$ DQPSK;
Operation Frequency:	BT Classic:2402MHz to 2480MHz;
Modulation Type:	BT Classic:GFSK, $\pi/4$ DQPSK;
Number of Channel:	BT Classic:79;
Product Type:	☐ Mobile ☐ Portable ☒ Fix Location
Antenna Type:	Internal antenna
Antenna Gain:	0dBi
Power Supply:	DC 12V
Test Voltage:	DC 12V
Sample Received Date:	Feb. 17, 2022
Sample tested Date:	Mar. 01, 2022 to Mar. 02, 2022
Remark:	Company Name and Address shown on Report, the sample(s) and sample Information was/ were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified. Model No.: CS-JD-AACP-01,CS-JD-AACP-03,CS-JD-AACP-04,CS-JD-AACP-05,CS-JD-MP-01,CS-JD-MP-02,CS-JD-MP-03,CS-JD-PCP-3X,CS-JD-PCP-6X,CS-JD-PCP-9X,CS-JD-AN-03,CS-JD-AN-03(9-1/16),CS-JD-AN-03(9-2/32),CDI-CS-JD-AACP-02,CDI-CS-JD-AACP-N1,CDI-CS-JD-AACP-N2,CDI-CS-JD-AACP,N3,CDI-CS-JD-AN-05(2/16),CDI-CS-JD-AN-05(2/32),CDI-CS-JD-AN-05(1/16),CDI-CS-JD-10AACP-N1,CDI-CS-JD-10AACP-N2,CDI-CS-JD-10AACP-N3,CDI-CS-JD-10AN-01(2/16),CDI-CS-JD-10AN-02(2/16),CDI-CS-JD-10AN-01(2/32),CDI-CS-JD-10AN-02(2/32),CDI-CS-JD-10AN-01(1/16),CDI-CS-JD-10AN-02(1/16) Only the model CS-JD-AACP-01 was tested, since the electrical circuit design, layout, components used and internal wiring were identical for the above models, with difference being of appearance.

1.1 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax: +86 (0) 755 33683385

No tests were sub-contracted.

FCC Designation No.: CN1164

1.2 Deviation from Standards

None.

1.3 Abnormalities from Standard Conditions

None.

1.4 Other Information Requested by the Customer

None.

4 RF Exposure Evaluation

1.5 RF Exposure Compliance Requirement

Given $E = \frac{\sqrt{30 \times P \times G}}{d}$ & $S = \frac{E^2}{377}$

Where E = Field strength in Volts / meter

P = Power in Watts

G = Numeric antenna gain

d = Distance in meters

S = Power density in milliwatts / square centimeter

Combining equations and re-arranging the terms to express the distance as a function of the remaining variables yields:

$$S = \frac{30 \times P \times G}{377 d^2}$$

Changing to units of mW and cm, using:

$$P \text{ (mW)} = P \text{ (W)} / 1000 \text{ and}$$

$$d \text{ (cm)} = d \text{ (m)} / 100$$

Yields

$$S = \frac{30 \times (P/1000) \times G}{377 \times (d/100)^2} = 0.0796 \times \frac{P \times G}{d^2} \quad \text{Equation 1}$$

Where d = Distance in cm

P = Power in mW

G = Numeric antenna gain

S = Power density in mW / cm²

1.6 Maximum Permissible Exposure

Substituting the MPE safe distance using $d = 20$ cm into Equation 1:

$$S = 0.000199 \times P \times G$$

Where P = Power in mW

G = Numeric antenna gain

S = Power density in mW / cm²

BT Classic:

Ch.	Frq.(MHz)	P (mW)	Gain (num.)	D (cm)	Power density in mW / cm ²	Limit (mW/cm ²)
0	2402	0.653000	1	20	0.0001	1

Note: The test data Refer to report No. EED32O80193801.

PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No. EED32O80193801 for EUT external and internal photos.

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CTI, this report can't be reproduced except in full.

*** End of Report ***