

RF Exposure Report

Product Name : Desktop PC

Model No. : G35CA

FCC ID : MSQ-G35CA

Applicant : ASUSTeK COMPUTER INC.

Address : 1F., No. 15, Lide Rd., Beitou Dist., Taipei City 112, Taiwan

Date of Receipt : Dec. 09, 2022

Date of Declaration : Mar. 03, 2023

Report No. : 22B0946R-RFUSV17S-A

Report Version : V1.0



The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration report of the equipment and evaluated measurement uncertainty herein.

This report must not be used to claim product endorsement by TAF or any agency of the government.

The test report shall not be reproduced without the written approval of DEKRA Testing and Certification Co., Ltd.

Measurement uncertainties evaluated for each testing system and associated connections are given here to provide the system information for reference. Compliance determinations do not take into account measurement uncertainties for each testing system, but are based on the results of the compliance measurement.



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|---------------------|--|---|
| Product Name | Desktop PC | |
| Applicant | ASUSTeK COMPUTER INC. | |
| Address | 1F., No. 15, Lide Rd., Beitou Dist., Taipei City 112, Taiwan | |
| Manufacturer | ASUSTeK COMPUTER INC. | |
| Model No. | G35CA | |
| FCC ID | MSQ-G35CA | |
| Trade Name | ASUS | |
| Applicable Standard | KDB 447498 D01 v06 | <input checked="" type="checkbox"/> Minimum test separation distance ≥ 20 cm <input type="checkbox"/> For low power devices |
| Test Result | Complied | |

Documented By :

April Chen

(Senior Project Specialist / April Chen)

Tested By :

Jack Hsu

(Senior Engineer / Jack Hsu)

Approved By :

Tim Sung

(Manager / Tim Sung)

Revision History

| Report No. | Version | Description | Issued Date |
|---------------------|---------|--------------------------|---------------|
| 22B0946R-RFUSV17S-A | V1.0 | Initial issue of report. | Mar. 03, 2023 |

1. General Information

1.1. EUT Description

| | |
|--------------|------------|
| Product Name | Desktop PC |
| Trade Name | ASUS |
| Model No. | G35CA |
| FCC ID | MSQ-G35CA |

Note: For more detailed information please refer to report No.: 22B0946R-RFUSV10S-A.

1.2. Test Facility

USA : FCC Registration Number: TW0033
Canada : CAB Identifier Number: TW3023 / Company Number: 26930

Site Description : Accredited by TAF
Accredited Number: 3023

Test Laboratory : DEKRA Testing and Certification Co., Ltd
Address : No. 5-22, Ruishukeng Linkou District, New Taipei City, 24451, Taiwan
Performed Location : No. 26, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan, R.O.C.
Phone Number : +886-3-275-7255
Fax Number : +886-3-327-8031
Email Address : info.tw@dekra.com
Website : <http://www.dekra.com.tw>

2. RF Exposure Evaluation

2.1. Standard Applicable

According to KDB 447498 D01 (7.1), A minimum test separation distance ≥ 20 cm is required between the antenna and radiating structures of the device and nearby persons to apply mobile device exposure limits.

2.2. Limits

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

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) |
|---|-------------------------------|-------------------------------|-------------------------------------|------------------------|
| (A) Limits for Occupational/ Control 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 |
| 300-1,500 | | | f/300 | 6 |
| 1,500-100,000 | | | 5 | 6 |
| (B) Limits for General Population/ Uncontrolled Exposures | | | | |
| 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 |
| 300-1,500 | | | f/1500 | 30 |
| 1,500-100,000 | | | 1.0 | 30 |

F= Frequency in MHz

Friis Formula

Friis transmission formula: $P_d = (P_{out} * G) / (4 * \pi * r^2)$

Where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

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

Simultaneous transmission MPE test exclusion applies when the sum of the MPE ratios for all simultaneously transmitting antennas incorporated in a host device is ≤ 1.0

2.3. Test Result of RF Exposure Evaluation

Product : Desktop PC
Test Item : RF Exposure Evaluation

| Band | Frequency (MHz) | H-Field (dB μ V/3m) | H-Field (E.I.R.P) (dBm) | H-Field (E.I.R.P) (mW) | Power Density at R = 20 cm (mW/cm ²) | Limit (mW/cm ²) |
|-------|-----------------|-------------------------|-------------------------|------------------------|--|-----------------------------|
| RF ID | 13.56 | 34.8 | -62.57878745 | 0.0000006 | 0.0000000001 | 0.979 |

Note: The conducted output power is refer to report No.: 22B0946R-RFUSV10S-A from the DEKRA.

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| Results | PASS |
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