

DECREE OF THE MINISTER OF COMMUNICATIONS AND INFORMATICS
OF THE REPUBLIC OF INDONESIA
NUMBER 177 OF 2024
ABOUT
SPECIFIC ABSORPTION RATE LIMITATIONS ON MOBILE PHONES AND TABLET
COMPUTERS TELECOMMUNICATION DEVICES

MINISTER OF COMMUNICATIONS AND INFORMATICS
OF THE REPUBLIC OF INDONESIA

Considering:

- a. that based on Article 34 paragraph (1) and Article 37 paragraph (1) Government Regulation Number 46 of 2021 concerning Post, Telecommunications and Broadcasting, every telecommunications tool and/or telecommunications devices that is manufactured, assembled, entered for trading and/or used in the territory of the Unitary State of the Republic of Indonesia is obliged to meet the technical standards set by the Minister of Communication and Information;
- b. that one aspect of testing telecommunications tools and/or telecommunications devices that must be fulfilled is testing the Specific Absorption Rate (SAR) parameter;
- c. that the domestic testing centre has Specific Absorption Rate testing capabilities for cellular telephone and tablet computers telecommunications equipment;
- d. that based on the considerations as intended in letters a, b, and c, it is necessary to stipulate a Decree of the Minister of Communication and Information regarding Specific Absorption Rate Limits on Cellular Telephone and Tablet Computers Telecommunication Devices;

Remembering:

1. Law Number 36 of 1999 concerning Telecommunications (State Gazette of the Republic of Indonesia of 1999 Number 154, Supplement to State Gazette of the Republic of Indonesia Number 3881) as amended by Law Number 6 of 2023 concerning Stipulation of Government Regulations in Lieu of Law Number 2 2022 concerning Job Creation Becoming Law (State Gazette of the Republic of Indonesia of 2023 Number 41, Supplement to the State Gazette of the Republic of Indonesia Number 6856);
2. Law Number 39 of 2008 concerning State Ministries (State Gazette of the Republic of Indonesia of 2008 Number 166, Supplement to State Gazette of the Republic of Indonesia Number 4916);
3. Government Regulation Number 46 of 2021 concerning Post, Telecommunications and Broadcasting (State Gazette of the Republic of Indonesia of 2021 Number 56, Supplement to State Gazette of the Republic of Indonesia Number 6658);

4. Presidential Regulation Number 22 of 2023 concerning the Ministry of Communication and Information (State Gazette of the Republic of Indonesia of 2023 Number S1);
5. Regulation of the Minister of Communication and Information Technology Number 16 of 2018 concerning Operational Provisions for Certification of Telecommunications tools and/or telecommunications devices (State Gazette of the Republic of Indonesia of 2018 Number 1801);
6. Regulation of the Minister of Communication and Information Technology Number 12 of 2021 concerning the Organization and Work Procedures of the Ministry of Communication and Information Technology (State Gazette of the Republic of Indonesia of 2021 Number 1120);
7. Regulation of the Minister of Communications and Information Technology Number 13 of 2021 concerning Technical Standards for Telecommunication Equipment and/or Mobile Telecommunication Equipment Based on Long Term Evolution Technology Standards and International Mobile Telecommunications Technology Standards-2020 (State Gazette of the Republic of Indonesia of 2021 Number 1156);

DECIDE:

To stipulate : DECREE OF THE MINISTER OF COMMUNICATIONS AND INFORMATICS CONCERNING SPECIFIC ABSORPTION RATE LIMITATIONS ON MOBILE TELEPHONE AND TABLET COMPUTER TELECOMMUNICATION DEVICES.

FIRST : Establish specific absorption rate limits for cellular telephone and tablet computers telecommunications equipment as stated in the Attachment which is an inseparable part of this Ministerial Decree.

SECOND : Cellular telephone and tablet computers telecommunications equipment as referred to in the FIRST Dictum are telecommunications devices that are used at a distance of less than 20 cm (twenty centimetres) from the body and have a radiated transmit power of more than 20 mW (twenty milliwatts).

THIRD : The specific absorption rate limits as intended in the FIRST Dictum refer to:

- a. International Commission on Non-ionizing Radiation Protection Guideline 1998 (ICNIRP (1998)), or
- b. International Commission on Non-ionizing Radiation Protection Guideline 2020 (ICNIRP (2020)).

FOURTH : The implementation of the obligation to fulfil specific absorption rate limits on cellular telephone telecommunications equipment and tablet computers as intended in the FIRST Dictum is carried out in stages as follows:

- a. Fulfilment of specific absorption rate limits for the head starting on April 1 2024, and

- b. Fulfilment of specific absorption rate limits for the torso (torso/body) and limbs (limb) starting on August 1, 2024.

FIFTH : Certificate application for Cellular telephones and tablet computers telecommunications equipment after the effective date of the obligation to fulfil specific absorption rate limits as intended in the FOURTH Dictum must attach a report on the results of the specific absorption rate test.

SIXTH : Except for the provisions as intended in the FIFTH Dictum, in the event that the test centre has not been able to issue a report on the specific absorption rate test results, applicants for cellular telephone and tablet computer telecommunications equipment certificate can attach a statement letter from the domestic test centre which includes information on the issuance date of the specific absorption rate test report.

SEVENTH : The exclusion provisions as intended in the SIXTH Dictum are valid for a maximum of 2 (two) years from the date the obligation to fulfil the specific absorption rate limits as intended in the FOURTH Dictum comes into force.

EIGHTH : The specific absorption rate test report for each certificate from the domestic test centre as intended in the SIXTH Dictum must be submitted to the Directorate of Standardization of Post and Informatics Equipment, Directorate General of Post and Informatics Resources and Equipment, Ministry of Communication and Informatics no later than 14 (fourteen) calendar days from the issuance date of the specific absorption rate test report as stated in the statement letter from the domestic test centre.

NINE : In the event that based on the specific absorption rate test report as intended in the EIGHTH Dictum, cellular telephone or tablet computer telecommunications equipment does not meet the specific absorption rate limits as stipulated in this Ministerial Decree, the following provisions apply:

- a. telecommunications tools and/or telecommunications devices certificate holders may apply for retesting of cellular telephone or tablet computer telecommunications equipment;
- b. retesting as intended in letter a is carried out: together with the Directorate General of Post and Information Resources and Equipment, Ministry of Communication and Information;
- c. samples of mobile phone telecommunication devices or tablet computers for retesting are purchased randomly from the market, and
- d. The sample purchase fee as intended in letter c is charged to the telecommunications tools and/or telecommunications equipment certificate holder who applies for retesting.

TENTH : In the event that based on the results of retesting cellular telephone or tablet computer telecommunications equipment as intended in the NINTH Dictum, the telecommunications equipment does not meet the specific absorption rate limits as stipulated in this Ministerial Decree, telecommunications tools and/or telecommunications equipment certificate holder will be subject to sanctions for

not meeting the standards technically in accordance with the provisions of statutory regulations.

ELEVENTH : This Ministerial Decree comes into force on the date of stipulation.

Stipulated in Jakarta
on March 7, 2024

MINISTER OF COMMUNICATIONS
AND INFORMATICS
REPUBLIC OF INDONESIA,

BUDIE ARIE SETIADI

ATTACHMENT
 DECREE OF THE MINISTER OF
 COMMUNICATIONS AND INFORMATICS
 REPUBLIC OF INDONESIA
 NUMBER 177 OF 2024
 ABOUT
 SPECIFIC ABSORPTION RATE
 LIMITATIONS ON MOBILE
 TELECOMMUNICATION DEVICES AND
 TABLET COMPUTERS

SPECIFIC ABSORPTION RATE LIMITATIONS FOR MOBILE TELECOMMUNICATION
 DEVICES AND TABLET COMPUTERS

1. Limits on exposure to electric fields and magnetic fields for radio frequency bands up to 10 GHz in accordance with ICNIRP (1998) guidelines and specific absorption rate (SAR) test method standards which becomes the reference:

Exposure Characteristics	Radio Frequency Range	Localized SAR (Head) ($W kg^{-1}$)	Localized SAR (Trunk) ($W kg^{-1}$)	Localized SAR (Limb) ($W kg^{-1}$)
Occupational Exposure	100 kHz – 10 MHz	10	10	20
	10 MHz – 10 GHz	10	10	20
General Public Exposure	100 kHz – 10 MHz	2	2	4
	10 MHz – 10 GHz	2	2	4
Standard of SAR Testing Method		<ul style="list-style-type: none"> • IEC/IEEE 62209-1528 or EN 50360:2017; • KDB 941225 D01; • KDB941225 D05; • KDB 941225 D05A; and/or • 447498 D01 or another equal standard (IEC 62209-1) 	<ul style="list-style-type: none"> • IEC/IEEE 62209-1528 or EN 50566:2017; • KDB 941225 D01; • KDB941225 D05; • KDB 941225 D05A; and/or • 447498 D01 or another equal standard (IEC 62209-2) 	

Notes:

- 1) Occupational Exposure is required for devices worn on the body for work/occupational purposes (for example in the manufacturing industry).
- 2) General Public Exposure is required for devices used on or near the body of the public in general.
- 3) Local SAR exposure is averaged over 6 minutes.

2. Limits on exposure to electric fields and magnetic fields for the frequency band from 100 kHz to 300 GHz, for an average interval of ≥ 6 minutes in accordance with ICNIRP (2020) guidelines and SAR test methods standard which becomes reference:

Exposure Scenario	Radio Frequency Range	Local Head SAR ($W\ kg^{-1}$)	Local Torso SAR ($W\ kg^{-1}$)	Local Limb SAR ($W\ kg^{-1}$)
Occupational	100 kHz – 6 GHz	10	10	20
	>6 GHz – 300 GHz	NA	NA	NA
General Public	100 kHz – 6 GHz	2	2	4
	>6 GHz – 300 GHz	NA	NA	NA
Standard of SAR Testing Method		<ul style="list-style-type: none"> • IEC/IEEE 62209-1528 or EN 50360:2017; • KDB 941225 D01; • KDB941225 D05; • KDB 941225 D05A; and/or • 447498 D01 or another equal standard (IEC 62209-1) 	<ul style="list-style-type: none"> • IEC/IEEE 62209-1528 or EN 50566:2017; • KDB 941225 D01; • KDB941225 D05; • KDB 941225 D05A; and/or • 447498 D01 or another equal standard (IEC 62209-2) 	

Notes:

- 1) Occupational Exposure is required for devices worn on the body for work/occupational purposes (for example in the manufacturing industry).
- 2) General Public Exposure is required for devices used on or near the body of the public in general.

- 3) “NA” indicates “not applicable” and does not need to be taken into account when determining compliance.
 - 4) t is the time in seconds, and the constraints must be met for all t values between >0 and <360 seconds, regardless of the temporal characteristics of the exposure itself.
 - 5) Local SAR exposure is averaged over 6 minutes.
 - 6) Local SAR is averaged over a 10-g cubic mass.
3. Limits on exposure to electric fields and magnetic fields for the frequency band from 100 kHz to 300 GHz, for an average interval of >0 to <6 minutes according to ICNIRP (2020) guidelines and SAR test methods standard which becomes reference:

Exposure Scenario	Radio Frequency Range	Local Head SA (kJ kg^{-1})	Local Torso SA (kJ kg^{-1})	Local Limb SA (kJ kg^{-1})
Occupational	100 kHz – 400 MHz	NA	NA	NA
	>400 MHz – 6 GHz	$3.6 [0.05+0.95 (t/360)^{0.5}]$	$3.6 [0.05+0.95 (t/360)^{0.5}]$	$7.2 [0.025+0.975 (t/360)^{0.5}]$
	>6 GHz – 300 GHz	NA	NA	NA
General Public	100 kHz – 400 MHz	NA	NA	NA
	>400 MHz – 6 GHz	$0.72 [0.05+0.95 (t/360)^{0.5}]$	$0.72 [0.05+0.95 (t/360)^{0.5}]$	$144 [0.025+0.975 (t/360)^{0.5}]$
	>6 GHz – 300 GHz	NA	NA	NA
Standard of SAR Testing Method		<ul style="list-style-type: none"> • IEC/IEEE 62209-1528 or EN 50360:2017; • KDB 941225 D01; • KDB941225 D05; • KDB 941225 D05A; and/or • 447498 D01 or another equal standard (IEC 62209-1) 	<ul style="list-style-type: none"> • IEC/IEEE 62209-1528 or EN 50566:2017; • KDB 941225 D01; • KDB941225 D05; • KDB 941225 D05A; and/or • 447498 D01 or another equal standard (IEC 62209-2) 	

Notes:

- 1) Occupational Exposure is required for devices worn on the body for work/occupational purposes (for example in the manufacturing industry).
- 2) General Public Exposure is required for devices used on or near the body of the public in general.
- 3) “NA” indicates “not applicable” and does not need to be taken into account when determining compliance.
- 4) t is the time in seconds, and the constraints must be met for all t values between >0 and <360 seconds, regardless of the temporal characteristics of the exposure itself.
- 5) Local SA is averaged over a 10-g cubic mass.
- 6) Exposure from waves, groups of waves, or subgroups of waves in a circuit, as well as from the sum of exposures (including electromagnetic fields that do not contain waves), delivered within t seconds, must not exceed this level.

MINISTER OF COMMUNICATIONS
AND INFORMATICS
REPUBLIC OF INDONESIA,

BUDIE ARIE SETIADI