

TEST REPORT

Applicant: Shanghai Xiangcheng Communication Technology Co., Ltd
Address: 5F-6F, Building 10, No.3000 Longdong Avenue, Pudong New District, Shanghai City, China
Equipment Type: Intelligent Mobile Data Capture Terminal
Model Name: Ranger 2K(N)
Brand Name: N/A
FCC ID: 2A2UU-MF-R2KWF
Test Standard: FCC 47 CFR Part 2.1093 (refer section 3.1)
Maximum SAR: Head (1 g@0 mm): 0.60 W/kg
Body-worn (1 g@10 mm): 0.44 W/kg
Hotspot (1 g@10 mm): 0.64 W/kg
Sample Arrival Date: Aug. 10, 2026
Test Date: Aug. 13, 2026 - Aug. 15, 2026
Date of Issue: Sep. 07, 2026

ISSUED BY:

Shanghai Tejet Communications Technology Co., Ltd. Testing Center

**Prepared by:** Huang Xiaoqin**Reviewed by:** Cai Xueguo**Approved by:** Zhang Yanqing
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Revision History

Version	Issue Date	Revisions Content
<u>Rev. 01</u>	<u>Sep. 03, 2026</u>	<u>Initial Issue</u>
<u>Rev. 02</u>	<u>Sep. 07, 2026</u>	<u>Update FCC ID, the original report is invalid.</u>

TABLE OF CONTENTS

1	GENERAL INFORMATION	4
1.1	Test Laboratory	4
1.2	Test Location	4
1.3	Test Environment Condition	4
2	PRODUCT INFORMATION	5
2.1	Applicant Information	5
2.2	Manufacturer Information	5
2.3	General Description for Equipment under Test (EUT)	5
2.4	Ancillary Equipment	5
2.5	Technical Information	6
3	SUMMARY OF TEST RESULT	7
3.1	Test Standards	7
3.2	Device Category and SAR Limit	8
3.3	Test Result Summary	9
3.4	Test Uncertainty	10
3.5	Decision Rule	10
4	MEASUREMENT SYSTEM	11
4.1	Specific Absorption Rate (SAR) Definition	11
4.2	DASY SAR System	12
5	SYSTEM VERIFICATION	19
5.1	Purpose of System Check	19
5.2	System Check Setup	19
6	TEST POSITION CONFIGURATIONS	20

6.1	Head Exposure Conditions	20
6.2	Body-worn Position Conditions	22
6.3	Hotspot Mode Exposure Position Conditions	23
6.4	Product Specific 10g Exposure Consideration	23
7	MEASUREMENT PROCEDURE	24
7.1	Measurement Process Diagram.....	24
7.2	SAR Scan General Requirement.....	25
7.3	Measurement Procedure	26
7.4	Area & Zoom Scan Procedure	26
8	CONDUCTED RF OUPUT POWER	27
8.1	WIFI.....	27
8.2	Bluetooth.....	30
9	Antenna Location	31
10	TEST RESULT	32
11	TEST EQUIPMENTS LIST	34
ANNEX A	SIMULATING LIQUID VERIFICATION RESULT	35
ANNEX B	SYSTEM CHECK RESULT	36
ANNEX C	TEST DATA	37
ANNEX D	EUT EXTERNAL PHOTOS	37
ANNEX E	SAR TEST SETUP PHOTOS	37
ANNEX F	CALIBRATION REPORT	37

1 GENERAL INFORMATION

1.1 Test Laboratory

Name	Shanghai Tejet Communications Technology Co., Ltd. Testing Center
Address	1-2/F., Building 1, No.222, Xuanlan Road, Xuanqiao, Pudong New District, Shanghai, China

1.2 Test Location

Name	Shanghai Tejet Communications Technology Co., Ltd. Testing Center
Location	1-2/F., Building 1, No.222, Xuanlan Road, Xuanqiao, Pudong New District, Shanghai, China
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1352. The laboratory is a testing organization accredited by ISED as a accredited testing laboratory. The company number is 29671 and CAB identifier number is CN0142.

1.3 Test Environment Condition

Ambient Temperature	18°C to 25°C
Ambient Relative Humidity	30% to 70%

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	Shanghai Xiangcheng Communication Technology Co., Ltd
Address	5F-6F, Building 10, No.3000 Longdong Avenue, Pudong New District, Shanghai City, China

2.2 Manufacturer Information

Manufacturer	Shanghai Xiangcheng Communication Technology Co., Ltd
Address	5F-6F, Building 10, No.3000 Longdong Avenue, Pudong New District, Shanghai City, China

2.3 General Description for Equipment under Test (EUT)

EUT Name	Intelligent Mobile Data Capture Terminal
Model Name Under Test	Ranger 2K(N)
Series Model Name	RANGER 2K(N), Ranger2K(N), RANGER2K(N), Ranger 2K/N, RANGER 2K/N, Ranger2K/N, Ranger2K Nova, RANGER2K NOVA, Ranger2K nova, MF60N, MF60U, MF60P, MF60 Nova, MF60 Ultra, MF60 Pro, T2251, T22, P5 Pro, P5 PRO, S40C, S40U
Description of Model name differentiation	All the same except for the model name. (this information provided by the applicant)
Sample Number	CC26070352-001-S01 (Conducted Power) CC26070352-001-S03 (SAR)
Hardware Version	V1.0
Software Version	1.0
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.4 Ancillary Equipment

Ancillary Equipment 1	Battery	
	Brand Name	N/A
	Model No.	F50042MA
	Serial No.	N/A
	Capacity	5100mAh,19.63Wh
	Rated Voltage	3.85V
	Limit Charge Voltage	4.4V

2.5 Technical Information

Network and Wireless connectivity	Bluetooth 2.4G WIFI,5G WIFI
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The requirement for the following technical information of the EUT was tested in this report:

Operating Mode	Bluetooth,2.4G WIFI,5G WIFI	
Frequency Range	Bluetooth	2402 ~ 2480 MHz
	2.4G WIFI	2412 ~ 2462 MHz
	5G WIFI	5150 ~ 5250 MHz
		5250 ~ 5350 MHz
		5470 ~ 5725 MHz
		5725 ~ 5850 MHz
Antenna Type	WLAN	PIFA
	Bluetooth	PIFA
Exposure Category	General Population/Uncontrolled exposure	
EUT Type	Portable Device	

3 SUMMARY OF TEST RESULT

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 2.1093	Radiofrequency radiation exposure evaluation: portable devices
2	ANSI C95.1-1992	IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz
3	IEEE Std. 1528-2013	IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate(SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
4	KDB 447498 D04 v01	447498 D04 Interim General RF Exposure Guidance v01
5	KDB 941225 D06 v02r01	SAR EVALUATION PROCEDURES FOR PORTABLE DEVICES WITH WIRELESS ROUTER CAPABILITIES
6	KDB 865664 D01 v01r04	SAR Measurement 100 MHz to 6 GHz
7	KDB 865664 D02 v01r02	RF Exposure Reporting
8	KDB 648474 D04 v01r03	SAR EVALUATION CONSIDERATIONS FOR WIRELESS HANDSETS
9	KDB 248227 D01 v02r02	SAR GUIDANCE FOR IEEE 802.11 (Wi-Fi) TRANSMITTERS

3.2 Device Category and SAR Limit

This device belongs to portable device category because its radiating structure is allowed to be used within 20 centimeters of the body of the user.

Limit for General Population/Uncontrolled exposure should be applied for this device, it is 1.6 W/kg as averaged over any 1 gram of tissue.

Table of Exposure Limits:

Body Position	SAR Value (W/Kg)	
	General Population/ Uncontrolled Exposure	Occupational/ Controlled Exposure
Whole-Body SAR (averaged over the entire body)	0.08	0.4
Partial-Body SAR (averaged over any 1 gram of tissue)	1.60	8.0
SAR for hands, wrists, feet and ankles (averaged over any 10 grams of tissue)	4.0	20.0

NOTE:

General Population/Uncontrolled Exposure: Locations where there is the exposure of individuals who have no knowledge or control of their exposure. General population/uncontrolled exposure limits are applicable to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes persons in its vicinity.

Occupational/Controlled Exposure: Locations where there is exposure that may be incurred by persons who are aware of the potential for exposure. In general, occupational/controlled exposure limits are applicable to situations in which persons are exposed as a consequence of their employment, who have been made fully aware of the potential for exposure and can exercise control over their exposure. This exposure category is also applicable when the exposure is of a transient nature due to incidental passage through a location where the exposure levels may be higher than the general population/uncontrolled limits, but the exposed person is fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

3.3 Test Result Summary

3.3.1 Highest SAR Values

Band	Maximum Scaled SAR (W/kg)			Maximum Report SAR (W/kg)		
	Head	Body-worn	Hotsopt	Head	Body-worn	Hotsopt
	(0mm)	(10mm)	(10mm)	(0mm)	(10mm)	(10mm)
	1g SAR			1g SAR		
Wi-Fi2.4G	0.35	0.15	0.15	0.60	0.44	0.64
Wi-Fi5G	0.60	0.44	0.64			
Bluetooth	0.10	0.04	0.04			
Limit (W/kg)	1.6			1.6		
Verdict	Pass					
Note: WiFi and Bluetooth share the same antenna, and can't transmit simultaneously.						

3.4 Test Uncertainty

According to KDB 865664 D01, When the highest measured 1 g SAR within a frequency band is < 1.5 W/kg, the extensive SAR measurement uncertainty analysis is not required in SAR reports submitted for equipment approval.

The maximum 1 g SAR for the EUT in this report is 0.64 W/kg, which is lower than 1.5 W/kg, so the extensive SAR measurement uncertainty analysis is not required in this report.

3.5 Decision Rule

- ☐ No Need
- ☒ Use General Conformity Decision Rule
- ☐ Use Special Conformity Decision Rule

4 MEASUREMENT SYSTEM

4.1 Specific Absorption Rate (SAR) Definition

SAR is related to the rate at which energy is absorbed per unit mass in an object exposed to a radio field. The SAR distribution in a biological body is complicated and is usually carried out by experimental techniques or numerical modeling. The standard recommends limits for two tiers of groups, occupational/controlled and general population/uncontrolled, based on a person's awareness and ability to exercise control over his or her exposure. In general, occupational/controlled exposure limits are higher than the limits for general population/uncontrolled.

The SAR definition is the time derivative (rate) of the incremental energy (dW) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dv) of a given density (ρ). The equation description is as below:

$$\text{SAR} = \frac{d}{dt} \left(\frac{dW}{dm} \right) = \frac{d}{dt} \left(\frac{dW}{\rho dv} \right)$$

SAR is expressed in units of Watts per kilogram (W/kg) SAR measurement can be related to the electrical field in the tissue by

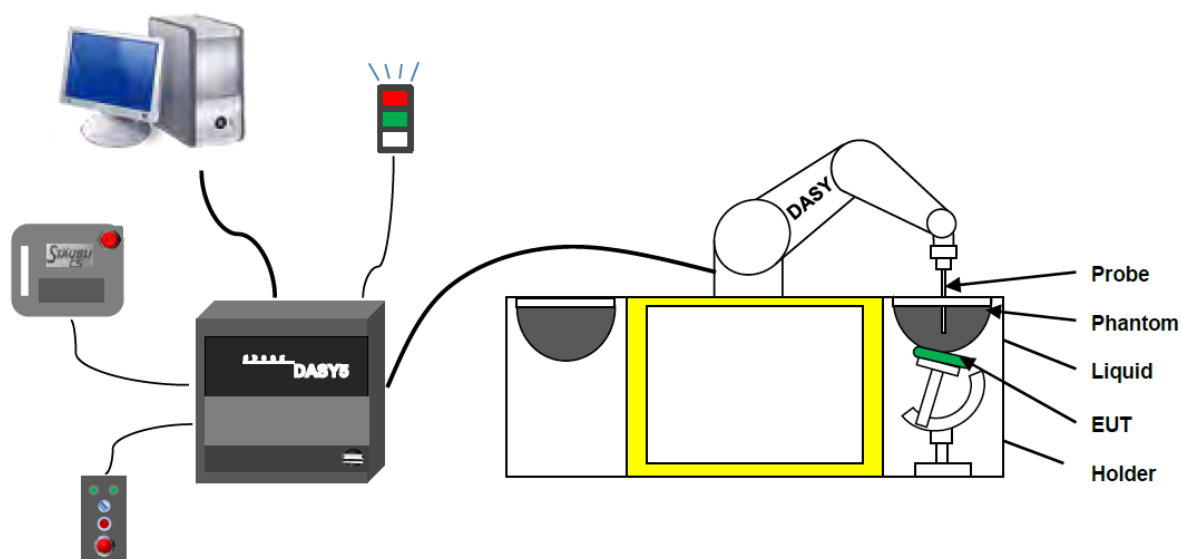
$$\text{SAR} = \frac{\sigma E^2}{\rho}$$

Where: σ is the conductivity of the tissue,

ρ is the mass density of the tissue and E is the RMS electrical field strength.

4.2 DASY SAR System

4.2.1 DASY SAR System Diagram

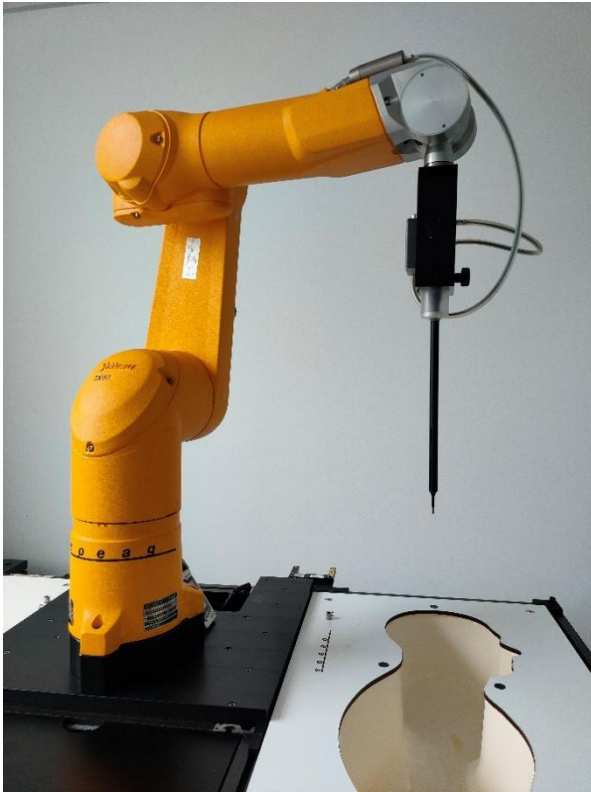


The DASY5 system for performing compliance tests consists of the following items:

1. A standard high precision 6-axis robot (Stäubli RX family) with controller and software. An arm extension for accommodating the data acquisition electronics (DAE).
2. A dosimetric probe, i.e. an isotropic E-field probe optimized and calibrated for usage in tissue simulating liquid. The probe is equipped with an optical surface detector system.
3. A data acquisition electronic (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
4. A unit to operate the optical surface detector which is connected to the EOC.
5. The Electro-Optical Coupler (EOC) performs the conversion from the optical into a digital electric signal of the DAE. The EOC is connected to the DASY5 measurement server.
6. The DASY5 measurement server, which performs all real-time data evaluation for field measurements and surface detection, controls robot movements and handles safety operation.
7. DASY5 software and SEMCAD data evaluation software.
8. Remote control with teach panel and additional circuitry for robot safety such as warning lamps, etc.
9. The generic twin phantom enabling the testing of left-hand and right-hand usage.
10. The device holder for handheld mobile phones.
11. Tissue simulating liquid mixed according to the given recipes.
12. System validation dipoles allowing to validate the proper functioning of the system.

4.2.2 Robot

The Dasy SAR system uses the high precision robots. Symmetrical design with triangular core Built-in optical fiber for surface detection system For the 6-axis controller system, Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents). The robot series have many features that are important for our application:



- High precision
(repeatability ± 0.02 mm)
- High reliability
(industrial design)
- Low maintenance costs
(virtually maintenance free due to direct drive gears; no belt drives)
- Jerk-free straight movements
(brush less synchron motors; no stepper motors)
- Low ELF interference
(motor control _elds shielded via the closed metallic construction shields)

4.2.3 E-Field Probe

The probe is specially designed and calibrated for use in liquids with high permittivities for the measurements the Specific Dosimetric E-Field Probe EX3DV4 with following specifications is used.

Construction	Symmetrical design with triangular core Built-in optical fiber for surface detection system Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., glycoether)
Calibration	ISO/IEC 17025 calibration service available
Frequency	4 MHz to 10 GHz; Linearity: ± 0.2 dB
Directivity	± 0.2 dB in HSL (rotation around probe axis) ; ± 0.4 dB in HSL (rotation normal to probe axis)
Dynamic range	5 μ W/g to > 100 mW/g; Linearity: ± 0.2 dB
Dimensions	Overall length: 337 mm (Tip: 9 mm) Tip diameter: 2.5 mm (Body: 10 mm) Distance from probe tip to dipole centers: 1.0 mm
Application	General dosimetry up to 3 GHz Compliance tests of mobile phones Fast automatic scanning in arbitrary phantoms (EX3DV4)



E-Field Probe Calibration Process

Probe calibration is realized, in compliance with IEC/IEEE 62209-1528 and IEEE 1528 std, with CALISAR, Antennessa proprietary calibration system. The calibration is performed with the IEC/IEEE 62209-1528 annexe technique using reference guide at the five frequencies.

4.2.4 Data Acquisition Electronics

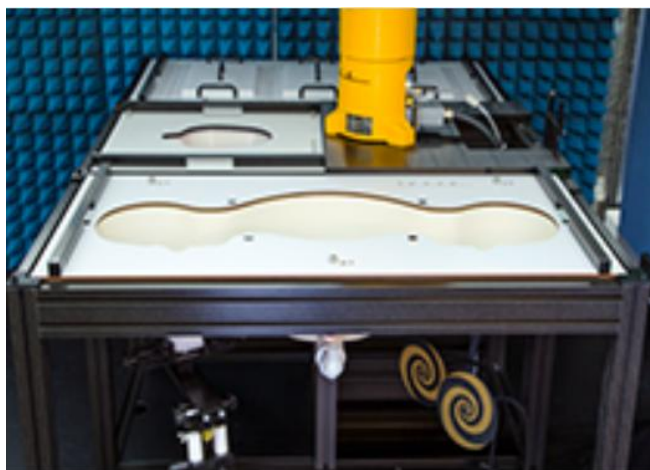
The data acquisition electronics (DAE) consist of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converte and a command decoder with a control logic unit. Transmission to the measurement server is accomplished through an optical downlink for data and status information, as well as an optical uplink for commands and the clock.



- Input Impedance: 200M Ω m
- The Inputs: Symmetrical and Floating
- Commom Mode Rejection: Above 80dB

4.2.5 Phantoms

For the measurements the Specific Anthropomorphic Mannequin (SAM) defined by the IEEE SCC-34/SC2 group is used. The phantom is a polyurethane shell integrated in a wooden table. The thickness of the phantom amounts to 2mm +/- 0.2mm. It enables the dosimetric evaluation of left and right phone usage and includes an additional flat phantom part for the simplified performance check. The phantom set-up includes a cover, which prevents the evaporation of the liquid.



- Left head
- Right head
- Flat phantom



4.2.6 Device Holder

The DASY5 device holder has two scales for device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear openings). The plane between the ear openings and the mouth tip has a rotation angle of 65°. The bottom plate contains three pair of bolts for locking the device holder. The device holder positions are adjusted to the standard measurement positions in the three sections. This device holder is used for standard mobile phones or PDA's only. If necessary an additional support of polystyrene material is used. Larger DUT's (e.g. notebooks) cannot be tested using this device holder. Instead a support of bigger polystyrene cubes and thin polystyrene plates is used to position the DUT in all relevant positions to find and measure spots with maximum SAR values. Therefore those devices are normally only tested at the flat part of the SAM.

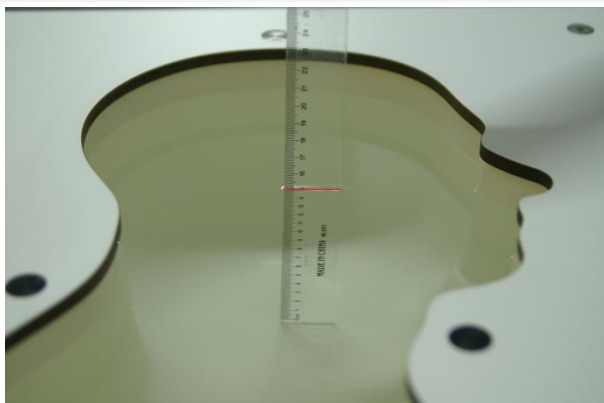


The positioning system allows obtaining cheek and tilting position with a very good accuracy. Incompliance with CENELEC, the tilt angle uncertainty is lower than 1° .

4.2.7 Simulating Liquid

For SAR measurement of the field distribution inside the phantom, the phantom must be filled with homogeneous tissue simulating liquid to a depth of at least 15 cm. For head SAR testing, the liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15 cm. For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15 cm. The nominal dielectric values of the tissue simulating liquids in the phantom and the tolerance of 5%.

Head Liquid Depth



Body Liquid Depth



The following table gives the recipes for tissue simulating liquid.

TSL	Manufacturer / Model	Freq Range (MHz)	Main Ingredients
Head WideBand	SPEAG HBBL600-10000V6	600-10000	Ethanediol, Sodium petroleum sulfonate, Hexylene Glycol / 2-Methyl-pentane-2.4-diol, Alkoxylated alcohol

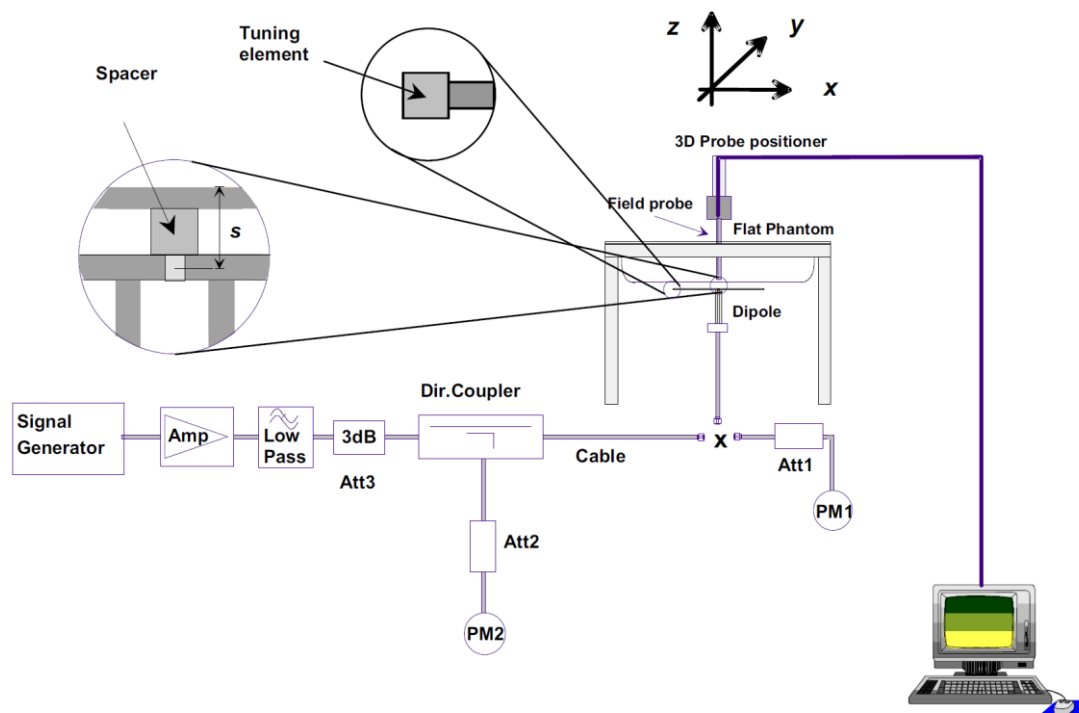
5 SYSTEM VERIFICATION

5.1 Purpose of System Check

The system performance check verifies that the system operates within its specifications. System and operator errors can be detected and corrected. It is recommended that the system performance check be performed prior to any usage of the system in order to guarantee reproducible results. The system performance check uses normal SAR measurements in a simplified setup with a well characterized source. This setup was selected to give a high sensitivity to all parameters that might fail or vary over time. The system check does not intend to replace the calibration of the components, but indicates situations where the system uncertainty is exceeded due to drift or failure.

5.2 System Check Setup

In the simplified setup for system evaluation, the EUT is replaced by a calibrated dipole and the power source is replaced by a continuous wave that comes from a signal generator. The calibrated dipole must be placed beneath the flat phantom section of the SAM twin phantom with the correct distance holder. The distance holder should touch the phantom surface with a light pressure at the reference marking and be oriented parallel to the long side of the phantom. The equipment setup is shown below:



6 TEST POSITION CONFIGURATIONS

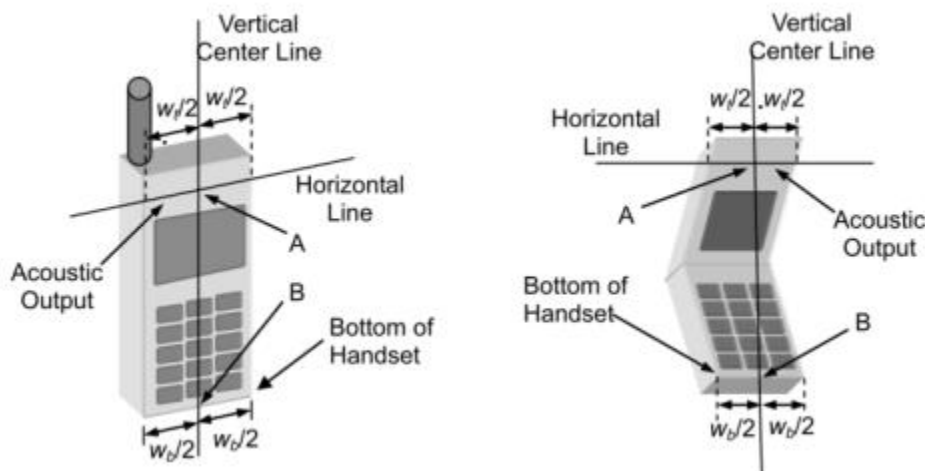
According to KDB 648474 D04 Handset, handsets are tested for SAR compliance in head, body-worn accessory and other use configurations described in the following subsections.

6.1 Head Exposure Conditions

Head exposure is limited to next to the ear voice mode operations. Head SAR compliance is tested according to the test positions defined in IEEE Std 1528-2013 using the SAM phantom illustrated as below.

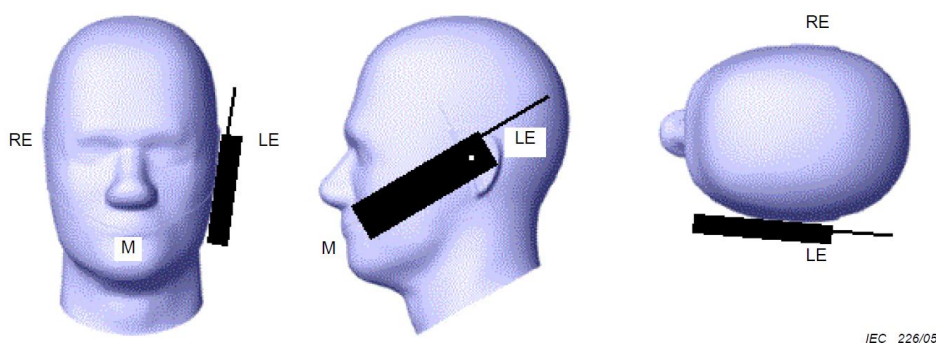
6.1.1 Two Imaginary Lines on the Handset

- The vertical center line passes through two points on the front side of the handset - the midpoint of the width w_t of the handset at the level of the acoustic output, and the midpoint of the width w_b of the bottom of the handset.
- The horizontal line is perpendicular to the vertical centerline and passes through the center of the acoustic output. The horizontal line is also tangential to the face of the handset at point A.
- The two lines intersect at point A. Note that for many handsets, point A coincides with the center of the acoustic output; however, the acoustic output may be located elsewhere on the horizontal line. Also note that the vertical center line is not necessarily parallel to the front face of the handset, especially for clamshell handsets, handsets with flip covers, and other irregularly shaped handsets.



6.1.2 Cheek Position

- (a) To position the device with the vertical center line of the body of the device and the horizontal line crossing the center piece in a plane parallel to the sagittal plane of the phantom. While maintaining the device in this plane, align the vertical center line with the reference plane containing the three ear and mouth reference point (M: Mouth, RE: Right Ear, and LE: Left Ear) and align the center of the ear piece with the line RE-LE.
- (b) To move the device towards the phantom with the ear piece aligned with the line LE-RE until the phone touched the ear. While maintaining the device in the reference plane and maintaining the phone contact with the ear, move the bottom of the phone until any point on the front side is in contact with the cheek of the phantom or until contact with the ear is lost.



6.1.3 Tilted Position

- (a) To position the device in the “cheek” position described above.
- (b) While maintaining the device the reference plane described above and pivoting against the ear, moves it outward away from the mouth by an angle of 15 degrees or until contact with the ear is lost.

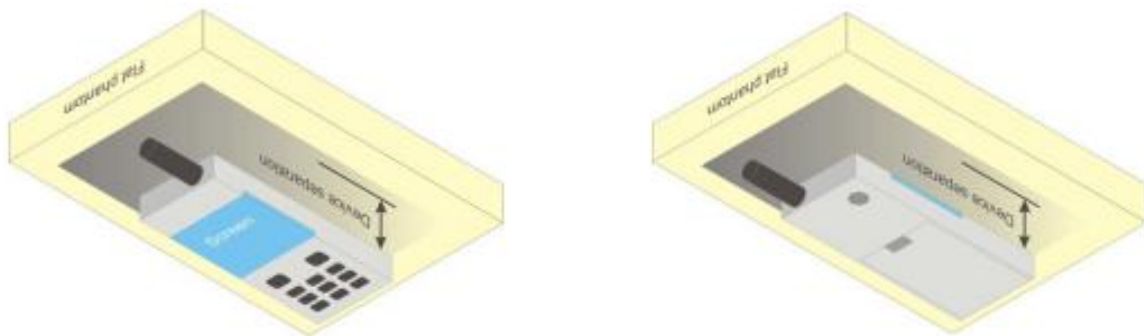


6.2 Body-worn Position Conditions

Body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in KDB 447498 are used to test for body-worn accessory SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation distance is greater than or equal to that required for hotspot mode. When the reported SAR for a body-worn accessory.

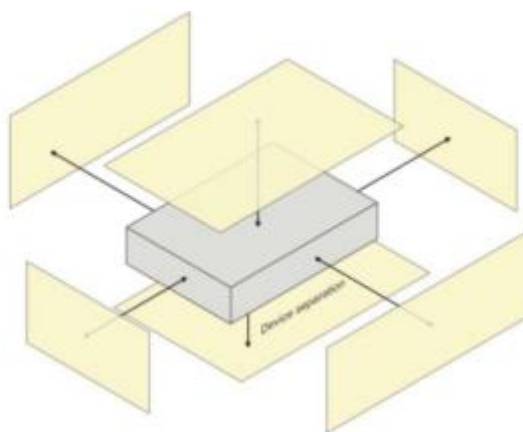
Body-worn accessories that do not contain metallic or conductive components may be tested according to worst-case exposure configurations, typically according to the smallest test separation distance required for the group of body-worn accessories with similar operating and exposure characteristics. All body-worn accessories containing metallic components are tested in conjunction with the host device.

Body-worn accessory SAR compliance is based on a single minimum test separation distance for all wireless and operating modes applicable to each body-worn accessory used by the host, and according to the relevant voice and/or data mode transmissions and operations. If a body-worn accessory supports voice only operations in its normal and expected use conditions, testing of data mode for body-worn compliance is not required. A conservative minimum test separation distance for supporting off-the-shelf body-worn accessories that may be acquired by users of consumer handsets is used to test for body-worn accessory SAR compliance. This distance is determined by the handset manufacturer, according to the requirements of Supplement C 01-01. Devices that are designed to operate on the body of users using lanyards and straps, or without requiring additional body-worn accessories, will be tested using a conservative minimum test separation distance ≤ 5 mm to support compliance.



6.3 Hotspot Mode Exposure Position Conditions

For handsets that support hotspot mode operations, with wireless router capabilities and various web browsing functions, the relevant hand and body exposure conditions are tested according to the hotspot SAR procedures in KDB 941225. A test separation distance of 10 mm is required between the phantom and all surfaces and edges with a transmitting antenna located within 25 mm from that surface or edge. When the form factor of a handset is smaller than 9 cm x 5 cm, a test separation distance of 5 mm (instead of 10 mm) is required for testing hotspot mode. When the separation distance required for body-worn accessory testing is larger than or equal to that tested for hotspot mode, in the same wireless mode and for the same surface of the phone, the hotspot mode SAR data may be used to support body-worn accessory SAR compliance for that particular configuration (surface).



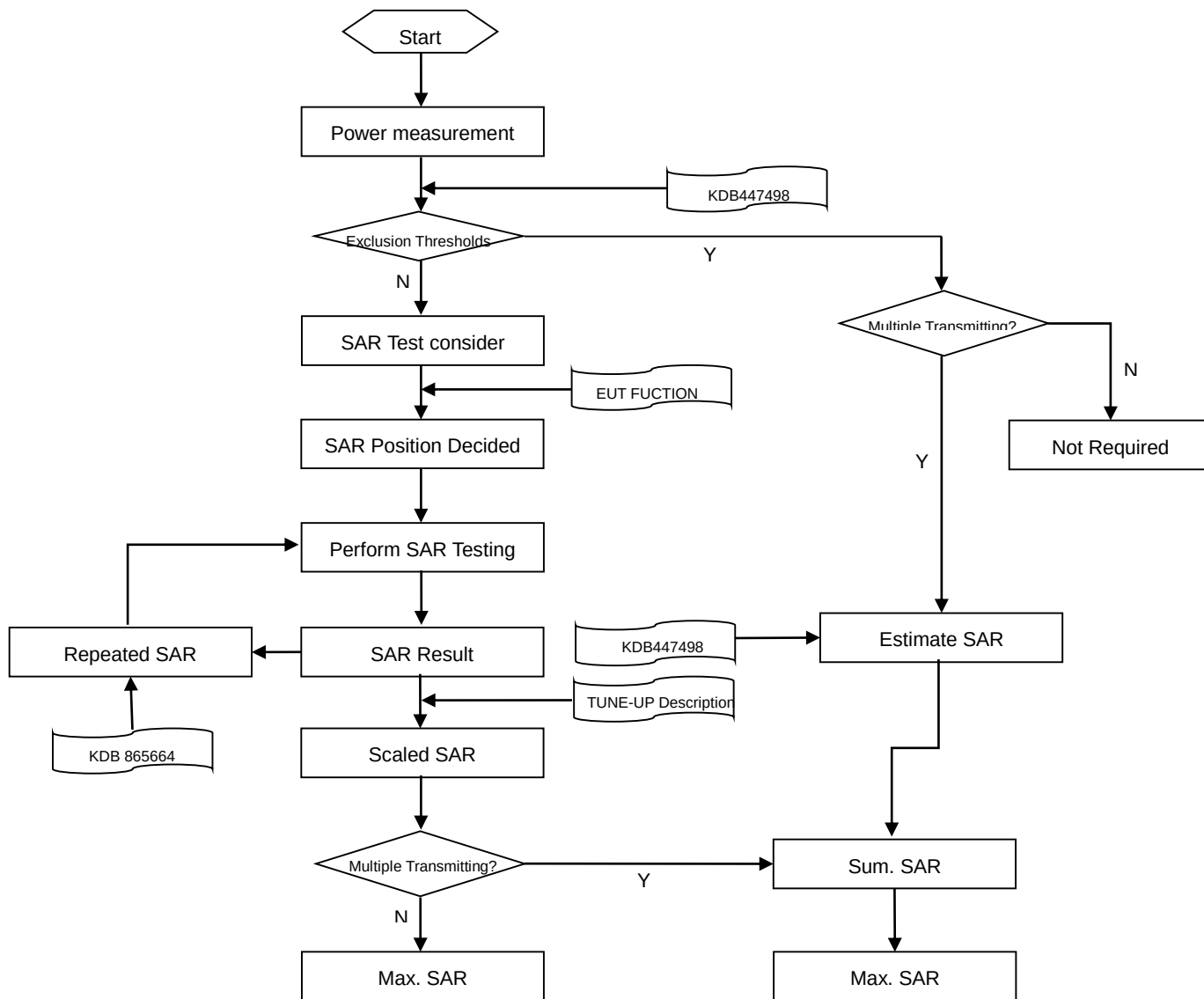
6.4 Product Specific 10g Exposure Consideration

According with FCC KDB 648474 D04, for smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm that provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets that support voice calls next to the ear, unless it is confirmed otherwise through KDB inquiries, the following phablet procedures should be applied to evaluate SAR compliance for each applicable wireless modes and frequency band. Devices marketed as phablets, regardless of form factors and operating characteristics must be tested as a phablet to determine SAR compliance;

The UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna located at ≤ 25 mm from that surface or edge, in direct contact with a flat phantom, for 10-g extremity SAR according to the body-equivalent tissue dielectric parameters in KDB 865664 to address interactive hand use exposure conditions. The UMPC mini-tablet 1-g SAR at 5 mm is not required. When hotspot mode applies, 10-g extremity SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg.

7 MEASUREMENT PROCEDURE

7.1 Measurement Process Diagram



7.2 SAR Scan General Requirement

Probe boundary effect error compensation is required for measurements with the probe tip closer than half a probe tip diameter to the phantom surface. Both the probe tip diameter and sensor offset distance must satisfy measurement protocols; to ensure probe boundary effect errors are minimized and the higher fields closest to the phantom surface can be correctly measured and extrapolated to the phantom surface for computing 1 g SAR. Tolerances of the post-processing algorithms must be verified by the test laboratory for the scan resolutions used in the SAR measurements, according to the reference distribution functions specified in IEEE Std 1528-2013.

			≤3GHz	>3GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface			5±1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5$ mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location			30°±1°	20°±1°
Maximum area scan spatial resolution: Δx Area , Δy Area			≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3–4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm
			When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be ≤ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	
Maximum zoom scan spatial resolution: Δx Zoom , Δy Zoom			≤ 2 GHz: ≤ 8 mm 2 –3 GHz: ≤ 5 mm*	3–4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: Δz Zoom (n)		≤ 5 mm	3–4 GHz: ≤ 4 mm
				4–5 GHz: ≤ 3 mm
				5–6 GHz: ≤ 2 mm
	graded grid	Δz Zoom (1): between 1st two points closest to phantom surface	≤ 4 mm	3–4 GHz: ≤ 3 mm
				4–5 GHz: ≤ 2.5 mm
		Δz Zoom (n>1): between subsequent points	≤ 1.5·Δz Zoom (n-1)	
Minimum zoom scan volume	x, y, z		≥30 mm	3–4 GHz: ≥ 28 mm
				4–5 GHz: ≥ 25 mm
				5–6 GHz: ≥ 22 mm

Note:

1. δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.
2. * When zoom scan is required and the reported SAR from the area scan based 1 g SAR estimation procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.

7.3 Measurement Procedure

The following steps are used for each test position

- a. Establish a call with the maximum output power with a base station simulator. The connection between the mobile and the base station simulator is established via air interface
- b. Measurement of the local E-field value at a fixed location. This value serves as a reference value for calculating a possible power drift.
- c. Measurement of the SAR distribution with a grid of 8 to 16mm * 8 to 16 mm and a constant distance to the inner surface of the phantom. Since the sensors cannot directly measure at the inner phantom surface, the values between the sensors and the inner phantom surface are extrapolated. With these values the area of the maximum SAR is calculated by an interpolation scheme.
- d. Around this point, a cube of 30 * 30 * 30 mm or 32 * 32 * 32 mm is assessed by measuring 5 or 8 * 5 or 8*4 or 5 mm. With these data, the peak spatial-average SAR value can be calculated.

7.4 Area & Zoom Scan Procedure

First Area Scan is used to locate the approximate location(s) of the local peak SAR value(s). The measurement grid within an Area Scan is defined by the grid extent, grid step size and grid offset. Next, in order to determine the EM field distribution in a three-dimensional spatial extension, Zoom Scan is required. The Zoom Scan is performed around the highest E-field value to determine the averaged SAR-distribution over 10 g. Area scan and zoom scan resolution setting follows KDB 865664 D01v01r04 quoted below.

When the 1 g SAR of the highest peak is within 2 dB of the SAR limit, additional zoom scans are required for other peaks within 2 dB of the highest peak that have not been included in any zoom scan to ensure there is no increase in SAR.

8 CONDUCTED RF OUTPUT POWER

8.1 WIFI

8.1.1 2.4G WIFI

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
2.4 (2.4~2.4835)	802.11b	1	2412	14.16	15.50	No
		6	2437	12.99	14.00	No
		11	2462	14.20	15.50	Yes
	802.11g	1	2412	15.66	16.50	No
		6	2437	15.65	16.50	No
		11	2462	15.42	16.50	No
	802.11n(HT20)	1	2412	15.22	16.00	No
		6	2437	15.49	16.50	No
		11	2462	15.15	16.00	No
	802.11n(HT40)	3	2422	12.93	14.00	No
		6	2437	15.00	16.00	No
		9	2452	12.43	13.50	No

Note: When multiple channel bandwidth configurations in a frequency band have the same maximum tune-up output power, the test configuration is determined by applying the following steps sequentially.

- 1) The largest channel bandwidth configuration is selected between the multiple configurations in a frequency band with the same maximum tune-up output power.
- 2) When multiple transmission modes (802.11b/g/n) have the same maximum tune-up output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11 mode is selected; i.e., 802.11b is chosen over 802.11g, and 802.11g chosen over 802.11n.
- 3) According KDB 247228, when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, OFDM SAR test is not required.

Adjusted SAR = $0.349 * (44.67\text{mW}/35.48\text{mW}) = 0.439$ W/Kg, so 2.4G OFDM SAR test is not required.

8.1.2 5G WIFI

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
5.2 (5.15~5.25)	802.11a	36	5180	14.03	15.50	No
		44	5220	14.63	16.00	Yes
		48	5240	14.57	16.00	No
	802.11n(HT20)	36	5180	14.52	15.50	No
		44	5220	14.47	15.50	No
		48	5240	14.47	15.50	No
	802.11n(HT40)	38	5190	14.42	15.50	No

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
	802.11ac(VHT20)	46	5230	14.41	15.50	No
		36	5180	14.57	15.50	No
		44	5220	14.40	15.50	No
		48	5240	14.43	15.50	No
	802.11ac(VHT40)	38	5190	13.23	14.00	No
		46	5230	14.26	15.50	No
	802.11ac(VHT80)	42	5210	14.07	15.00	No
5.3 (5.25~5.35)	802.11a	52	5260	14.51	15.50	Yes
		60	5300	14.49	15.50	No
		64	5320	14.43	15.50	No
	802.11n(HT20)	52	5260	14.50	15.50	No
		60	5300	14.25	15.50	No
		64	5320	14.31	15.50	No
	802.11n(HT40)	54	5270	14.33	15.00	No
		62	5310	13.10	14.00	No
	802.11ac(VHT20)	52	5260	14.30	15.50	No
		60	5300	14.17	15.00	No
		64	5320	14.29	15.50	No
	802.11ac(VHT40)	54	5270	14.08	15.00	No
		62	5310	14.17	15.00	No
	802.11ac(VHT80)	58	5290	13.90	15.00	No
5.6 (5.47~5.725)	802.11a	100	5500	14.35	15.50	Yes
		116	5580	14.27	15.50	No
		140	5700	13.82	15.50	No
	802.11n(HT20)	100	5500	14.19	15.00	No
		116	5580	14.08	15.00	No
		140	5700	13.70	14.50	No
	802.11n(HT40)	102	5510	13.90	15.00	No
		118	5590	13.80	15.00	No
		134	5670	13.70	14.50	No
	802.11ac(VHT20)	100	5500	14.26	15.50	No
		116	5580	14.14	15.00	No
		140	5700	13.10	14.00	No
	802.11ac(VHT40)	102	5510	13.14	14.00	No
		118	5590	13.83	15.00	No
		134	5670	13.69	14.50	No
	802.11ac(VHT80)	106	5530	12.81	14.00	No
		122	5610	13.63	14.50	No

Band (GHz)	Mode	Channel	Freq. (MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
5.8 (5.725~5.850)	802.11a	149	5745	14.19	15.50	Yes
		157	5785	14.17	15.50	No
		165	5825	14.01	15.50	No
	802.11n(HT20)	149	5745	14.08	15.00	No
		157	5785	14.05	15.00	No
		165	5825	13.93	15.00	No
	802.11n(HT40)	151	5755	13.86	15.00	No
		159	5795	13.82	15.00	No
	802.11ac(VHT20)	149	5745	13.97	15.00	No
		157	5785	14.05	15.00	No
		165	5825	13.97	15.00	No
	802.11ac(VHT40)	151	5755	13.84	15.00	No
		159	5795	13.84	15.00	No
	802.11ac(VHT80)	155	5775	13.58	14.50	No
Note: When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR.						

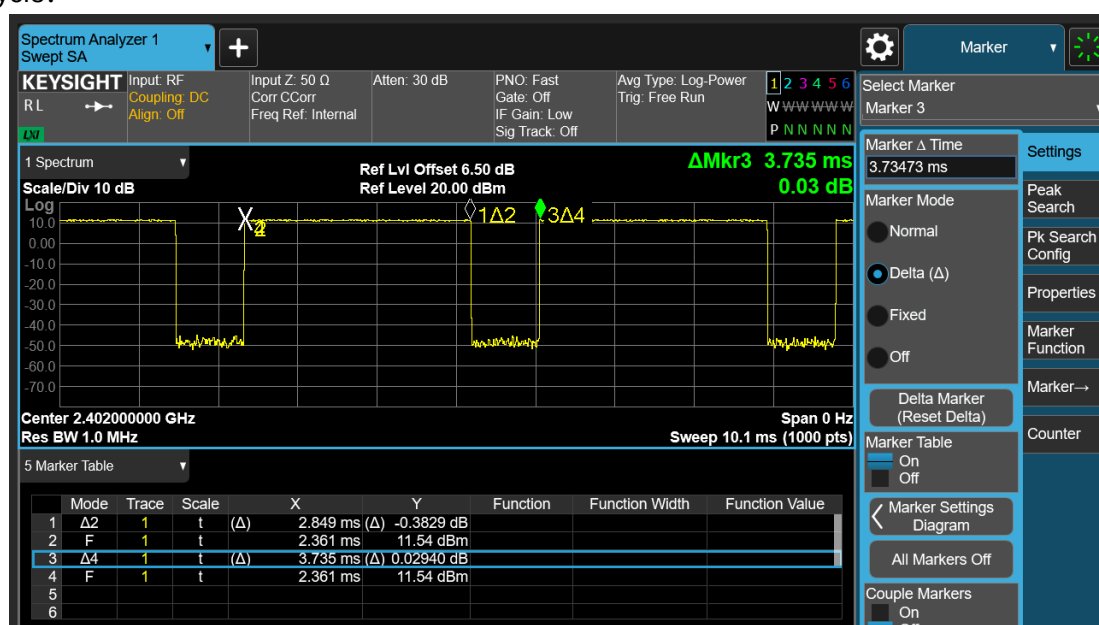
8.2 Bluetooth

Mode	Channel	Frequency(MHz)	Conducted Power (dBm)	Tune-up Limit (dBm)	SAR Test Require.
BR/EDR 1Mbps	CH 0	2402	11.22	12.00	No
	CH 39	2441	11.40	12.50	Yes
	CH 78	2480	10.56	12.00	No
BR/EDR 2Mbps	CH 0	2402	11.25	12.00	No
	CH 39	2441	10.74	12.00	No
	CH 78	2480	9.89	11.00	No
BR/EDR 3Mbps	CH 0	2402	11.14	12.00	No
	CH 39	2441	10.62	12.00	No
	CH 78	2480	9.77	11.00	No
BLE 1M	CH 0	2402	-2.55	-2.00	No
	CH 19	2440	-2.34	-1.00	No
	CH 39	2480	-2.85	-2.00	No
BLE 2M	CH 1	2404	-2.43	-1.00	No
	CH 19	2440	-2.25	-1.00	No
	CH 38	2478	-2.83	-2.00	No

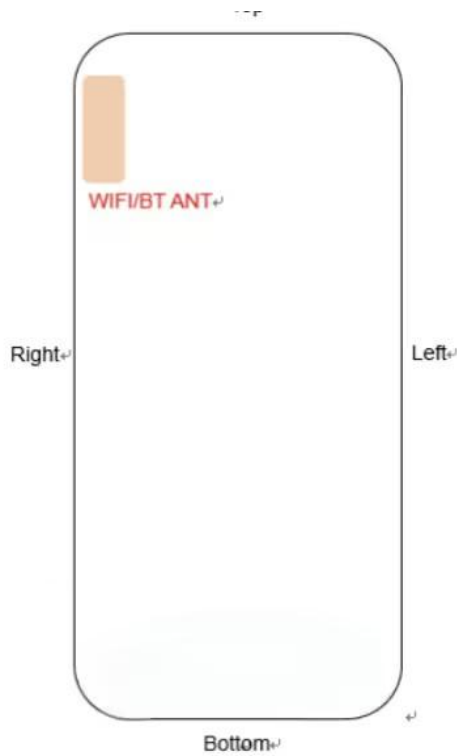
Note 1: Since Bluetooth BR mode is the maximum output power mode, SAR measurements were performed with test software using LE modulation, and SAR measurement is not required for the BDR and EDR. When the secondary mode is $\leq \frac{1}{4}$ dB higher than the primary mode.

Note: The Bluetooth duty cycle is 76.28% as following figure, according to 2016 Oct. TCB workshop for Bluetooth SAR scaling need further consideration and the maximum duty cycle is 100%, therefore the actual duty cycle will be scaled up to 100% for Bluetooth reported SAR calculation.

Duty Cycle:



9 Antenna Location



Antenna	Support Bands
Ant.1	Wi-Fi2.4G/Wi-Fi5G BT

10 TEST RESULT

Note: Refer to ANNEX C for the detailed test data for each test configuration.

Test Band	Test Position	Dist.	Test Mode	Test Channel	Freq. (MHz)	Power Drift(dB)	Measured 1-g SAR (W/kg)	Meas. Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle (%)	Duty Cycle Scaled Factor	Reported 1g SAR (W/kg)	Meas. No.
Wi-Fi 2.4G	Head	0mm	11b	11	2462	0.06	0.257	14.20	15.50	1.349	99.32	1.007	0.349	1
	Left Cheek			11	2462	-0.18	0.168	14.20	15.50	1.349	99.32	1.007	0.228	
	Left Tilt			11	2462	-0.04	0.209	14.20	15.50	1.349	99.32	1.007	0.284	
	Right Cheek			11	2462	0.02	0.199	14.20	15.50	1.349	99.32	1.007	0.270	
	Right Tilt	10mm	11b	11	2462	-0.15	0.095	14.20	15.50	1.349	99.32	1.007	0.129	
	Body-worn& Hotspot			11	2462	0.01	0.110	14.20	15.50	1.349	99.32	1.007	0.149	2
	Front Side			11	2462	-0.09	0.022	14.20	15.50	1.349	99.32	1.007	0.030	
	Back Side			11	2462	-0.06	0.071	14.20	15.50	1.349	99.32	1.007	0.096	
	Left Side			11	2462	-0.19	0.102	14.20	15.50	1.349	99.32	1.007	0.139	
	Right Side			11	2462	-0.12	0.024	14.20	15.50	1.349	99.32	1.007	0.033	
	Top Side			11	2462	-0.12	0.024	14.20	15.50	1.349	99.32	1.007	0.033	
	Bottom Side			11	2462	-0.12	0.024	14.20	15.50	1.349	99.32	1.007	0.033	

Test Band	Test Position	Dist.	Test Mode	Test Channel	Freq. (MHz)	Power Drift(dB)	Measured 1-g SAR (W/kg)	Meas. Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle (%)	Duty Cycle Scaled Factor	Reported 1g SAR (W/kg)	Meas. No.
Wi-Fi U-NII-1	Head	0mm	11a	44	5220	0.05	0.421	14.63	16.00	1.371	96.09	1.041	0.601	3
	Left Cheek			44	5220	0.06	0.290	14.63	16.00	1.371	96.09	1.041	0.414	
	Left Tilt			44	5220	-0.17	0.160	14.63	16.00	1.371	96.09	1.041	0.228	
	Right Cheek			44	5220	0.13	0.172	14.63	16.00	1.371	96.09	1.041	0.245	
	Right Tilt	10mm	11a	44	5220	-0.09	0.182	14.63	16.00	1.371	96.09	1.041	0.260	
	Body-worn& Hotspot			44	5220	0.12	0.310	14.63	16.00	1.371	96.09	1.041	0.442	
	Front Side			44	5220	-0.13	0.044	14.63	16.00	1.371	96.09	1.041	0.063	
	Back Side			44	5220	0.03	0.385	14.63	16.00	1.371	96.09	1.041	0.549	4
	Left Side			44	5220	0.01	0.263	14.63	16.00	1.371	96.09	1.041	0.375	
	Right Side			44	5220	-0.12	0.038	14.63	16.00	1.371	96.09	1.041	0.054	
	Top Side			44	5220	-0.12	0.038	14.63	16.00	1.371	96.09	1.041	0.054	
	Bottom Side			44	5220	-0.12	0.038	14.63	16.00	1.371	96.09	1.041	0.054	

Test Band	Test Position	Dist.	Test Mode	Test Channel	Freq. (MHz)	Power Drift(dB)	Measured 1-g SAR (W/kg)	Meas. Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle (%)	Duty Cycle Scaled Factor	Reported 1g SAR (W/kg)	Meas. No.
Wi-Fi U-NII-2A	Head	0mm	11a	52	5260	0.02	0.411	14.51	15.50	1.256	96.09	1.041	0.537	5
	Left Cheek			52	5260	0.07	0.309	14.51	15.50	1.256	96.09	1.041	0.404	
	Left Tilt			52	5260	0.13	0.217	14.51	15.50	1.256	96.09	1.041	0.284	
	Right Cheek			52	5260	0.04	0.194	14.51	15.50	1.256	96.09	1.041	0.254	
	Right Tilt	10mm	11a	52	5260	-0.17	0.162	14.51	15.50	1.256	96.09	1.041	0.212	
	Body-worn& Hotspot			52	5260	0.02	0.277	14.51	15.50	1.256	96.09	1.041	0.362	
	Front Side			52	5260	-0.19	0.076	14.51	15.50	1.256	96.09	1.041	0.099	
	Back Side			52	5260	0.15	0.414	14.51	15.50	1.256	96.09	1.041	0.541	6
	Left Side			52	5260	-0.14	0.241	14.51	15.50	1.256	96.09	1.041	0.315	
	Right Side			52	5260	-0.05	0.079	14.51	15.50	1.256	96.09	1.041	0.103	
	Top Side			52	5260	-0.05	0.079	14.51	15.50	1.256	96.09	1.041	0.103	
	Bottom Side			52	5260	-0.05	0.079	14.51	15.50	1.256	96.09	1.041	0.103	

Test Band	Test Position	Dist.	Test Mode	Test Channel	Freq. (MHz)	Power Drift(dB)	Measured 1-g SAR (W/kg)	Meas. Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle (%)	Duty Cycle Scaled Factor	Reported 1g SAR (W/kg)	Meas. No.
Wi-Fi U-NII-2C	Head	0mm	11a	100	5500	-0.09	0.115	14.35	15.50	1.303	96.09	1.041	0.156	
	Left Cheek			100	5500	-0.03	0.097	14.35	15.50	1.303	96.09	1.041	0.132	
	Left Tilt			100	5500	-0.10	0.097	14.35	15.50	1.303	96.09	1.041	0.132	
	Right Cheek			100	5500	0.08	0.129	14.35	15.50	1.303	96.09	1.041	0.175	7
	Right Tilt	10mm	11a	100	5500	0.07	0.100	14.35	15.50	1.303	96.09	1.041	0.136	
	Body-worn& Hotspot			100	5500	-0.01	0.254	14.35	15.50	1.303	96.09	1.041	0.344	
	Front Side			100	5500	0.07	0.044	14.35	15.50	1.303	96.09	1.041	0.060	
	Back Side			100	5500	0.08	0.301	14.35	15.50	1.303	96.09	1.041	0.408	8
	Left Side			100	5500	0.03	0.128	14.35	15.50	1.303	96.09	1.041	0.174	
	Right Side			100	5500	-0.09	0.073	14.35	15.50	1.303	96.09	1.041	0.099	
	Top Side			100	5500	-0.09	0.073	14.35	15.50	1.303	96.09	1.041	0.099	
	Bottom Side			100	5500	-0.09	0.073	14.35	15.50	1.303	96.09	1.041	0.099	

Test Band	Test Position	Dist.	Test Mode	Test Channel	Freq. (MHz)	Power Drift(dB)	Measured 1-g SAR (W/kg)	Meas. Power (dBm)	Tune-up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle (%)	Duty Cycle Scaled Factor	Reported 1g SAR (W/kg)	Meas. No.
Wi-Fi U-NII-3	Head	0mm	11a	149	5745	0.06	0.174	14.19	15.50	1.352	96.09	1.041	0.245	9
	Left Cheek			149	5745	0.16	0.136	14.19	15.50	1.352	96.09	1.041	0.191	
	Left Tilt			149	5745	-0.11	0.159	14.19	15.50	1.352	96.09	1.041	0.224	
	Right Cheek			149	5745	-0.10	0.116	14.19	15.50	1.352	96.09	1.041	0.163	
	Right Tilt	10mm	11a	149	5745	0.10	0.099	14.19	15.50	1.352	96.09	1.041	0.139	
	Body-worn& Hotspot			149	5745	0.12	0.168	14.19	15.50	1.352	96.09	1.041	0.236	
	Front Side			149	5745	-0.19	0.065	14.19	15.50	1.352	96.09	1.041	0.091	
	Back Side			149	5745	0.13	0.458	14.19	15.50	1.352	96.09	1.041	0.644	10
	Left Side			149	5745	0.10	0.108	14.19	15.50	1.352	96.09	1.041	0.152	
	Right Side			149	5745	0.16	0.039	14.19	15.50	1.352	96.09	1.041	0.055	
	Top Side			149	5745	0.16	0.039	14.19	15.50	1.352	96.09	1.041	0.055	
	Bottom Side			149	5745	0.16	0.039	14.19	15.50	1.352	96.09	1.041	0.055	

Band	Position	Dist.	Test Mode	Channel	Freq. (MHz)	Power Drift(dB)	Measured 1-g SAR (W/kg)	Meas. Power (dBm)	Tune-up Limit(dBm)	Scaling Factor	Duty cycle (%)	Duty cycle Factor	Reported 1g SAR (W/kg)	Meas. no.
Head														
Bluetooth	Left Cheek	0mm	BR/EDR 1Mbps	39	2441	0.11	0.053	11.40	12.50	1.288	76.28	1.311	0.090	
Bluetooth	Left Tilt	0mm		39	2441	-0.14	0.030	11.40	12.50	1.288	76.28	1.311	0.051	
Bluetooth	Right Cheek	0mm		39	2441	0.05	0.040	11.40	12.50	1.288	76.28	1.311	0.068	
Bluetooth	Right Tilt	0mm		39	2441	0.10	0.057	11.40	12.50	1.288	76.28	1.311	0.096	11
Body-worn& Hotspot														
Bluetooth	Front Side	10mm	BR/EDR 1Mbps	39	2441	0.05	0.018	11.40	12.50	1.288	76.28	1.311	0.030	
Bluetooth	Back Side	10mm		39	2441	0.07	0.022	11.40	12.50	1.288	76.28	1.311	0.037	12
Bluetooth	Left Side	10mm		39	2441	-0.17	0.015	11.40	12.50	1.288	76.28	1.311	0.025	
Bluetooth	Right Side	10mm		39	2441	0.01	0.020	11.40	12.50	1.288	76.28	1.311	0.034	
Bluetooth	Top Side	10mm		39	2441	-0.12	0.019	11.40	12.50	1.288	76.28	1.311	0.032	
Bluetooth	Bottom Side	10mm		39	2441	-0.18	0.018	11.40	12.50	1.288	76.28	1.311	0.030	

11 TEST EQUIPMENTS LIST

Description	Manufacturer	Model	Serial No./Version	Cal. Date	Cal. Due
PC	Dell	N/A	N/A	N/A	N/A
Test Software	Speag	DASY5	52.10.4.1535	N/A	N/A
2450MHz Validation Dipole	Speag	D2450V2	1065	2024/09/05	2027/09/05
5GHz Validation Dipole	Speag	D5GHzV2	1333	2024/09/04	2027/09/04
Data Acquisition Electronics	Speag	DAE4	SN: 1389	2026/05/08	2027/05/08
E-Field Probe	Speag	EX3DV4	SN: 7986	2026/04/07	2027/04/07
Power Meter	Agilent	E4419B	MY45104512	2026/02/03	2027/02/03
Power Sensor	Agilent	E9304A	MY41499059	2026/02/03	2027/02/03
Power Sensor	Agilent	E9304A	MY41499060	2026/02/03	2027/02/03
Network Analyzer	Agilent	E5071C	MY56301409	2026/02/03	2027/02/03
Test Software	Agilent	2132/11/28	E04.02.13	N/A	N/A
Dielectric Probe Kit	Keysight	85070E	MY44300524	N/A	N/A
Thermometer	CEM	DT-322	210402350	2026/01/28	2027/01/28
Thermometer	Elitech	RC-4HC	EF7247001275	2026/01/28	2027/01/28
Power Amplifier	SATIMO	6552B	22374	N/A	N/A
Phantom	Speag	SAM	SN:1473	N/A	N/A
Attenuator	COM-MW	ZA-S1-31	1305003187	N/A	N/A
Directional coupler	AA-MCS	AAMCS-UDC	000272	N/A	N/A

Note: For dipole antennas, Tejet has adopted 3 years as calibration intervals, and on annual basis, every measurement dipole has been evaluated and is in compliance with the following criteria:

1. There is no physical damage on the dipole;
2. System validation with specific dipole is within 10% of calibrated value;
3. Return-loss in within 20% of calibrated measurement.
4. Impedance (real or imaginary parts) in within 5 Ohms of calibrated measurement.

ANNEX A SIMULATING LIQUID VERIFICATION RESULT

The dielectric parameters of the liquids were verified prior to the SAR evaluation using an 85070E Dielectric Probe Kit.

Head Liquid

Date	Liquid Type	Fre. (MHz)	Temp. (°C)	Meas. Conductivity (σ) (S/m)	Meas. Permittivity (ϵ)	Target Conductivity (σ) (S/m)	Target Permittivity (ϵ)	Conductivity Tolerance (%)	Permittivity Tolerance (%)
2026.8.13	Head	2450	21.6	1.75	40.32	1.80	39.20	-2.78	2.86
2026.8.14	Head	5200	21.4	4.73	36.15	4.66	35.99	1.50	0.44
2026.8.14	Head	5300	21.4	4.85	35.94	4.76	35.87	1.89	0.20
2026.8.15	Head	5600	20.9	5.23	35.27	5.07	35.53	3.16	-0.73
2026.8.15	Head	5800	20.9	5.50	34.86	5.27	35.30	4.36	-1.25
Note: The tolerance limit of Conductivity and Permittivity is $\pm 5\%$.									

ANNEX B SYSTEM CHECK RESULT

Comparing to the original SAR value provided by Speag, the validation data should be within its specification of 10 % (for 1 g).

Head liquid 1g

Date	Liquid Type	Freq. (MHz)	Power (mW)	Measured SAR (W/kg)	Normalized SAR (W/kg)	Dipole SAR (W/kg)	Tolerance (%)
2026.8.13	Head	2450	100	5.260	52.60	52.60	0.00
2026.8.14	Head	5200	100	7.860	78.60	77.80	1.03
2026.8.14	Head	5300	100	8.460	84.60	79.00	7.09
2026.8.15	Head	5600	100	8.670	86.70	82.80	4.71
2026.8.15	Head	5800	100	8.090	80.90	78.50	3.06

Note: The tolerance limit of System validation $\pm 10\%$.

Please refer the document "Ti-CC26080090-ASC.pdf".

ANNEX C TEST DATA

Please refer the document “Ti-CC26080090-ATD.pdf”.

ANNEX D EUT EXTERNAL PHOTOS

Please refer the document “Ti-CC26080090-AW.pdf”.

ANNEX E SAR TEST SETUP PHOTOS

Please refer the document “Ti-CC26080090-AS.pdf”.

ANNEX F CALIBRATION REPORT

Please refer the document “Ti-CC26080090-AC.pdf”.

Statement

1. The Testing Center guarantees the scientificity, accuracy and impartiality of the test, and is responsible for all the information in the report, except the information provided by the customer. The customer is responsible for the impact of the information provided on the validity of the results.
2. For the report with Accreditation Symbol, the items marked with "☆" are not within the accredited scope.
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6. Any objection shall be raised to the Testing Center within 30 days after receiving the report.

--END OF REPORT--