

Report No.: KSCR211200031001

Page: 1 of 43

FCC SAR TEST REPORT

Application No.: KSCR2112000310AT(SZCR2112024033AT)

Applicant: Harman International Industries, Inc.

Address of Applicant: 8500 Balboa Boulevard, Northridge, California, 91329, United States

Manufacturer: Harman International Industries. Inc.

Address of Manufacturer: 8500 Balboa Boulevard, Northridge, California, 91329, United States

Factory 1: Cosonic Electroacoustic Technology Co., Ltd

Address of Factory 1: No.151, Shipai Section, Dongyuan Avenue, Shipai Town, Dongguan, City, Cyanadana Brayinga, B.B. China

City, Guangdong Province, P.R.China

Factory 2: COSONIC VIETNAM COMPANY LIMITED

Address of Factory 2: Lot C5-1, Ba Thien II Industrial Park, Thien Ke Commune, Binh Xuyen

District, Vinh Phuc Province, Vietnam

Factory 3: Jiangxi Cosonic Electroacoustic Technologies Co., Ltd.

Address of Factory 3: Shangli Industrial Park, Jinshan Town, Shangli County, Pingxiang,

Jiangxi, P.R. China

Product Name: BLUETOOTH HEADSET

Model No.(EUT): REFLECT AERO

Trade mark: JBL

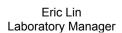
FCC ID: APIREFLECTAERO
Standard(s): FCC 47CFR §2.1093

Date of Receipt: 2021-12-15

Date of Test: 2021-12-17 to 2021-12-21

Date of Issue: 2021-12-28

Test Result: Pass*



Forin fin



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^{*} In the configuration tested, the EUT complied with the standards specified above.



Report No.: KSCR211200031001

Page: 2 of 43

REVISION HISTORY

Revision Record			
Version	Description	Date	Remark
00	Original	2021-12-28	1

Authorized for issue by:		
	Richard. Kong	
	Richard.Kong/ Project Engineer	
	Eria fri	
	Eric.Lin/Reviewer	



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Report No.: KSCR211200031001

Page: 3 of 43

TEST SUMMARY

Frequency Band	Maximum Reported SAR(W/kg)
Frequency Band	Head
Bluetooth	0.86
SAR Limited(W/kg)	1.6



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Report No.: KSCR211200031001

Page: 4 of 43

CONTENTS

1	GENERAL INFORMATION	6
	1.1 GENERAL DESCRIPTION OF EUT 1.1.1 DUT Antenna Locations(Unit:mm) 1.2 TEST SPECIFICATION 1.3 RF EXPOSURE LIMITS 1.4 TEST LOCATION 1.5 TEST FACILITY	
2		
3	3.1 THE SAR MEASUREMENT SYSTEM CONFIGURATION 3.2 ISOTROPIC E-FIELD PROBE EX3DV4. 3.3 DATA ACQUISITION ELECTRONICS (DAE). 3.4 SAM TWIN PHANTOM. 3.5 ELI PHANTOM. 3.6 DEVICE HOLDER FOR TRANSMITTERS. 3.7 MEASUREMENT PROCEDURE. 3.7.1 Scanning procedure. 3.7.2 Data Storage.	12 15 15 16 17
4	3.7.3 Data Evaluation by SEMCAD	20
	4.1 SAR MEASUREMENT VARIABILITY 4.2 SAR MEASUREMENT UNCERTAINTY	23
5		
6	5.1 THE BODY TEST POSITION	
•	6.1 TISSUE SIMULATE LIQUID 6.1.1 Recipes for Tissue Simulate Liquid 6.1.2 Test Liquids Confirmation 6.1.3 Measurement for Tissue Simulate Liquid 6.2 SAR SYSTEM CHECK 6.2.1 Justification for Extended SAR Dipole Calibrations 6.2.2 Summary System Check Result(s) 6.2.3 Detailed System Check Results	
7	TEST CONFIGURATION	31
8	7.1 OPERATION CONFIGURATIONS 7.1.1 BluetoothTest Configuration TEST RESULT	31
_	8.1 MEASUREMENT OF RF CONDUCTED POWER	
	8.1.1 Conducted Power Of BT	33 34



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Report No.: KSCR211200031001

Page: 5 of 43

	8.3.1	SAR Result Of Bluetooth	. 35
9	EQUIP	MENT LIST	. 36
10	CALIB	RATION CERTIFICATE	.37
11	РНОТО	OGRAPHS	. 37
APP	ENDIX A	A: DETAILED SYSTEM CHECK RESULTS	.38
APP	ENDIX I	3: DETAILED TEST RESULTS	.40
APP	ENDIX (C: CALIBRATION CERTIFICATE	.43
APP	ENDIX I	D: PHOTOGRAPHS	.43



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Report No.: KSCR211200031001

Page: 6 of 43

1 General Information

1.1 General Description of EUT

Device Type :	Portable device		
Exposure Category:	Uncontrolled environment / General population		
Product Phase:	Production unit		
SN:	CS0573-KL0000027		
Hardware Version:	V0.3		
Software Version:	1.2.5		
Antenna Type:	Integral antenna		
Device Operating Configura	tions:		
Modulation Mode:	BT: GFSK, π/4DQPSK,8DPSK;		
Woddiation Wode.	BLE: GFSK		
Antenna Gain:	Left Earbud: -0.24dBi (Provided by Manufacturer)		
7 (Interina Gain.	Right Earbud: -1.61dBi (Provided by Manufacturer)		
Frequency Bands:	Band	Tx (MHz)	Rx (MHz)
Frequency Bands.	Bluetooth	2402~2480	2402~2480
	Model: ICR1440		
Pottory Information:	Rated Voltage: DC 3.85V		
Battery Information:	Rated capacity: 65mAh		
	Manufacturer: Guangzhou Great Power Energy & technology Co., Ltd.		



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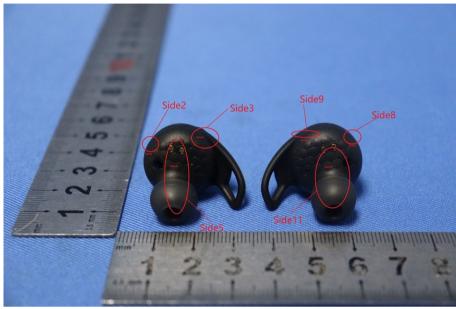




Report No.: KSCR211200031001

Page: 7 of 43

1.1.1 DUT Antenna Locations(Unit:mm)







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Report No.: KSCR211200031001

Page: 8 of 43

1.2 Test Specification

Identity	Document Title
FCC 47CFR §2.1093	Radio frequency Radiation Exposure Evaluation: Portable Devices
IEEE Std C95.1 – 2019	IEEE Standard for Safety Levels with Respect to Human Exposure to Electric, Magnetic, and Electromagnetic Fields, 0 Hz to 300 GHz
IEEE 1528-2013	Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
KDB447498 D01 General RF Exposure Guidance v06	Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies
KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04	SAR Measurement Requirements for 100 MHz to 6 GHz
KDB 865664 D02 RF Exposure Reporting v01r02	RF Exposure Compliance Reporting and Documentation Considerations



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Report No.: KSCR211200031001

Page: 9 of 43

1.3 RF exposure limits

Human Exposure	Uncontrolled Environment General Population	Controlled Environment Occupational
Spatial Peak SAR* (Brain*Trunk)	1.60 W/kg	8.00 W/kg
Spatial Average SAR** (Whole Body)	0.08 W/kg	0.40 W/kg
Spatial Peak SAR*** (Hands/Feet/Ankle/Wrist)	4.00 W/kg	20.00 W/kg

Notes:

Uncontrolled Environments are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure.

Controlled Environments are defined as locations where there is exposure that may be incurred by persons who are aware of the potential for exposure, (i.e. as a result of employment or occupation.)



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^{*} The Spatial Peak value of the SAR averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time

^{**} The Spatial Average value of the SAR averaged over the whole body.

^{***} The Spatial Peak value of the SAR averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.



Report No.: KSCR211200031001

Page: 10 of 43

1.4 Test Location

Company: Compliance Certification Services (Kunshan) Inc.

Address: No.10 Weiye Rd., Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu,

China

Post code: 215300

Telephone: 86-512-57355888 Fax: 86-512-57370818

1.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• CNAS (No. CNAS L4354)

CNAS has accredited Compliance Certification Services (Kunshan) Inc. to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

A2LA (Certificate No. 2541.01)

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 2541.01.

• FCC -Designation Number: CN1172

Compliance Certification Services (Kunshan) Inc. has been recognized as an accredited testing laboratory. Designation Number: CN1172.

• ISED (CAB identifier: CN0072)

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory

CAB Identifier: CN0072.

• VCCI (Member No.: 1938)

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-1600, C-1707, T-1499, G-10216 respectively.



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Page: 11 of 43

2 Laboratory Environment

Temperature	Min. = 18°C, Max. = 25 °C	
Relative humidity	Min. = 30%, Max. = 70%	
Ground system resistance	< 0.5 Ω	
Ambient noise is checked and found very low and in compliance with requirement of standards.		
Reflection of surrounding objects is minimized a	and in compliance with requirement of standards.	

Table 2: The Ambient Conditions



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Report No.: KSCR211200031001

Page: 12 of 43

3 SAR Measurements System Configuration

3.1 The SAR Measurement System

This SAR Measurement System uses a Computer-controlled 3-D stepper motor system (SPEAG DASY5 professional system). A E-field probe is used to determine the internal electric fields. The SAR can be obtained from the equation SAR= σ (|Ei|2)/ ρ where σ and ρ are the conductivity and mass density of the tissue-Simulate.

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

A standard high precision 6-axis robot (Stabile RX family) with controller, teach pendant and software. An arm extension for accommodation the data acquisition electronics (DAE).

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.

A data acquisition electronics (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.

The Electro-optical converter (EOC) performs the conversion between optical and electrical of the signals for the digital communication to DAE and for the analog signal from the optical surface detection. The EOC is connected to the measurement server.



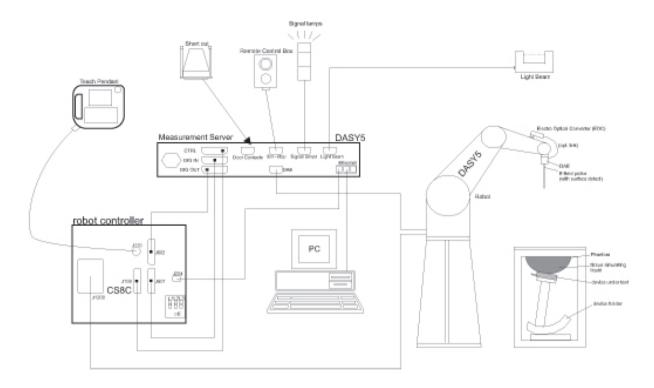
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Report No.: KSCR211200031001

Page: 13 of 43



F-1. SAR Measurement System Configuration

- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- A probe alignment unit which improves the (absolute) accuracy of the probe positioning.
- A computer operating Windows 7.
- DASY5 software.
- Remote control with teach pendant and additional circuitry for robot safety such as warning lamps, etc.
- The SAM twin phantom enabling testing left-hand, right-hand and Body Worn usage.
- The device holder for handheld mobile phones.
- Tissue simulating liquid mixed according to the given recipes.
- Validation dipole kits allowing to validat the proper functioning of the system.



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Report No.: KSCR211200031001

Page: 14 of 43

3.2 Isotropic E-field Probe EX3DV4

	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)
Calibration	ISO/IEC 17025 calibration service available.
Frequency	10 MHz to > 6 GHz Linearity: ± 0.2 dB (30 MHz to 6 GHz)
Directivity	± 0.3 dB in TSL (rotation around probe axis) ± 0.5 dB in TSL (rotation normal to probe axis)
Dynamic Range	10 μW/g to > 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 μW/g)
Dimensions	Overall length: 337 mm (Tip: 20 mm) Tip diameter: 2.5 mm (Body: 12 mm) Typical distance from probe tip to dipole centers: 1 mm
Application	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields); the only probe that enables compliance testing for frequencies up to 6 GHz with precision of better 30%.
Compatibility	DASY3, DASY4, DASY52 SAR and higher, EASY4/MRI



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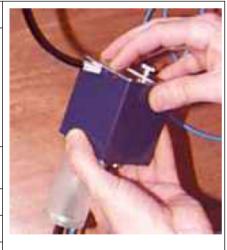


Report No.: KSCR211200031001

Page: 15 of 43

3.3 Data Acquisition Electronics (DAE)

Model	DAE4	
Construction	Signal amplifier, multiplexer, A/D converter and control logic. Serial optical link for communication with DASY4/5 embedded system (fully remote controlled). Two step probe touch detector for mechanical surface detection and emergency robot stop.	TOTAL INVESTIGATION
Measurement Range	-100 to +300 mV (16 bit resolution and two range settings: 4mV,400mV)	
Input Offset Voltage	< 5μV (with auto zero)	
Input Bias Current	< 50 f A	
Dimensions	60 x 60 x 68 mm	



3.4 SAM Twin Phantom

Material	Vinylester, glass fiber reinforced (VE-GF)
Liquid Compatibility	Compatible with all SPEAG tissue simulating liquids (incl. DGBE type)
Shell Thickness	2 ± 0.2 mm (6 ± 0.2 mm at ear point)
Dimensions (incl. Wooden Support)	Length: 1000 mm Width: 500 mm Height: adjustable feet
Filling Volume	approx. 25 liters
Wooden Support	SPEAG standard phantom table



The shell corresponds to the specifications of the Specific Anthropomorphic Mannequin (SAM) phantom defined in IEEE 1528 and IEC 62209-1. It enables the dosimetric evaluation of left and right hand phone usage as well as body mounted usage at the flat phantom region. A cover prevents evaporation of the liquid. Reference markings on the phantom allow the complete setup of all predefined phantom positions and measurement grids by teaching three points with the robot.

Twin SAM V5.0 has the same shell geometry and is manufactured from the same material as Twin SAM V4.0, but has reinforced top structure.



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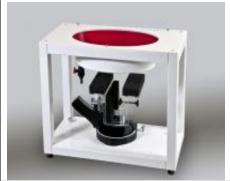


Report No.: KSCR211200031001

Page: 16 of 43

3.5 ELI Phantom

Material	Vinylester, glass fiber reinforced (VE-GF)			
Liquid Compatibility	Compatible with all SPEAG tissue simulating liquids (incl. DGBE type)			
Shell Thickness	2.0 ± 0.2 mm (bottom plate)			
Dimensions	Major axis: 600 mm Minor axis: 400 mm			
Filling Volume	approx. 30 liters			
Wooden Support	SPEAG standard phantom table			



Phantom for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30 MHz to 6 GHz. ELI is fully compatible with the IEC 62209-2 standard and all known tissue simulating liquids. ELI has been optimized regarding its performance and can be integrated into our standard phantom tables. A cover prevents evaporation of the liquid. Reference markings on the phantom allow installation of the complete setup, including all predefined phantom positions and measurement grids, by teaching three points. The phantom is compatible with all SPEAG dosimetric probes and dipoles.

ELI V5.0 has the same shell geometry and is manufactured from the same material as ELI4, but has reinforced top structure.



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Report No.: KSCR211200031001

Page: 17 of 43

3.6 Device Holder for Transmitters



F-2. Device Holder for Transmitters

- The DASY device holder is designed to cope with different positions given in the standard. It has two scales for the device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear reference points). The rotation centres for both scales are the ear reference point (ERP). Thus the device needs no repositioning when changing the angles.
- The DASY device holder has been made out of low-loss POM material having the following dielectric parameters: relative permittivity ε =3 and loss tangent δ =0.02. The amount of dielectric material has been reduced in the closest vicinity of the device, since measurements have suggested that the influence of the clamp on the test results could thus be lowered.



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Report No.: KSCR211200031001

Page: 18 of 43

3.7 Measurement procedure

3.7.1 Scanning procedure

Step 1: Power reference measurement

The "reference" and "drift" measurements are located at the beginning and end of the batch process. They measure the field drift at one single point in the liquid over the complete procedure.

Step 2: Area scan

The SAR distribution at the exposed side of the head was measured at a distance of 4mm from the inner surface of the shell. The area covered the entire dimension of the head and the horizontal grid spacing was 15mm*15mm or 12mm*12mm or 10mm*10mm.Based on the area scan data, the area of the maximum absorption was determined by spline interpolation.

Step 3: Zoom scan

Around this point, a volume of 30mm*30mm*30mm (fine resolution volume scan, zoom scan) was assessed by measuring 5x5x7 points (≤2GHz) and 7x7x7 points (≥2GHz). On this basis of this data set, the spatial peak SAR value was evaluated with the following procedure:

The data at the surface was extrapolated, since the centre of the dipoles is 2.0mm away from the tip of the probe and the distance between the surface and the lowest measuring point is 1.2mm. (This can be variable. Refer to the probe specification). The extrapolation was based on a least square algorithm. A polynomial of the fourth order was calculated through the points in z-axes. This polynomial was then used to evaluate the points between the surface and the probe tip. The maximum interpolated value was searched with a straight-forward algorithm. Around this maximum the SAR values averaged over the spatial volumes (1g or 10g) were computed using the 3D-Spline interpolation algorithm. The volume was integrated with the trapezoidal algorithm. One thousand points were interpolated to calculate the average. All neighbouring volumes were evaluated until no neighboring volume with a higher average value was found.

The area and zoom scan resolutions specified in the table below must be applied to the SAR measurements 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.



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Report No.: KSCR211200031001

Page: 19 of 43

			I		
			≤ 3 GHz	> 3 GHz	
Maximum distance from (geometric center of pr		_	5 ± 1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5 \text{ mm}$	
Maximum probe angle surface normal at the m	-	_	30° ± 1°	20° ± 1°	
			≤2 GHz: ≤15 mm 2 – 3 GHz: ≤12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm	
Maximum area scan sp	atial resolt	ntion: Δx_{Area} , Δy_{Area}	measurement plane orientation, is smaller than the the measurement resolution must be ≤ the corresponding to a corresponding to the test device with at least one measurement point on the test device. ≤ 2 GHz: ≤ 8 mm 3 - 4 GHz: ≤ 5 mm		
Maximum zoom scan s	patial reso	lution: Δx_{Zoom} , Δy_{Zoom}	≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm*	3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*	
	uniform	grid: Δz _{Zoom} (n)	≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm	
Maximum zoom scan spatial resolution, normal to phantom surface	graded	Δz _{Zoom} (1): between 1 st two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm	
	grid	Δz _{Zoom} (n>1): between subsequent points	$\leq 1.5 \cdot \Delta z_{Z_{0000}}(n-1)$		
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: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.

Step 4: Power reference measurement (drift)

The Power Drift Measurement job measures the field at the same location as the most recent power reference measurement job within the same procedure, and with the same settings. The indicated drift is mainly the variation of the DUT's output power and should vary max. \pm 5 %



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When zoom scan is required and the <u>reported</u> 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 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.



Report No.: KSCR211200031001

Page: 20 of 43

3.7.2 Data Storage

The DASY software stores the acquired data from the data acquisition electronics as raw data (in microvolt readings from the probe sensors), together with all necessary software parameters for the data evaluation (probe calibration data, liquid parameters and device frequency and modulation data) in measurement files with the extension ".DAE3". The software evaluates the desired unit and format for output each time the data is visualized or exported. This allows verification of the complete software setup even after the measurement and allows correction of incorrect parameter settings. For example, if a measurement has been performed with a wrong crest factor parameter in the device setup, the parameter can be corrected afterwards and the data can be reevaluated. The measured data can be visualized or exported in different units or formats, depending on the selected probe type ([V/m], [A/m], [°C], [m W/g], [m W/cm²], [dBrel], etc.). Some of these units are not available in certain situations or show meaningless results, e.g., a SAR output in a lossless media will always be zero. Raw data can also be exported to perform the evaluation with other software packages.

3.7.3 Data Evaluation by SEMCAD

The SEMCAD software automatically executes the following procedures to calculate the field units from the microvolt readings at the probe connector. The parameters used in the evaluation are stored in the configuration modules of the software:

Probe parameters: - Sensitivity Normi, ai0, ai1, ai2

Conversion factor ConvFiDiode compression point Dcpi

Device parameters: - Frequency

- Crest factor cf Media parameters: - Conductivity

- Density p

These parameters must be set correctly in the software. They can be found in the component documents or they can be imported into the software from the configuration files issued for the DASY components. In the direct measuring mode of the multimeter option, the parameters of the actual system setup are used. In the scan visualization and export modes, the parameters stored in the corresponding document files are used.

3

The first step of the evaluation is a linearization of the filtered input signal to account for the compression characteristics of the detector diode. The compensation depends on the input signal, the diode type and the DC-transmission factor from the diode to the evaluation electronics.

If the exciting field is pulsed, the crest factor of the signal must be known to correctly compensate for peak power. The formula for each channel can be given as:

$$V_i = U_i + U_i^2 \cdot c f / d c p_i$$

With Vi = compensated signal of channel i (i = x, y, z)

Ui = input signal of channel i (i = x, y, z)

cf = crest factor of exciting field (DASY parameter)

dcp i = diode compression point (DASY parameter)

From the compensated input signals the primary field data for each channel can be evaluated:



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Report No.: KSCR211200031001

Page: 21 of 43

E-field probes:

$$E_i = (V_i / Norm_i \cdot ConvF)^{1/2}$$

H-field probes:

$$H_i = (V_i)^{1/2} \cdot (a_{i0} + a_{i1}f + a_{i2}f^2)/f$$

With Vi = compensated signal of channel i

(i = x, y, z)

Normi = sensor sensitivity of channel I

(i = x, y, z)

[mV/(V/m)2] for E-field Probes

ConvF = sensitivity enhancement in solution

aij = sensor sensitivity factors for H-field probes

f = carrier frequency [GHz]

Ei = electric field strength of channel i in V/m

Hi = magnetic field strength of channel i in A/m

The RSS value of the field components gives the total field strength (Hermitian magnitude):

$$E_{tot} = (E_x^2 + E_y^2 + E_z^2)^{1/2}$$

The primary field data are used to calculate the derived field units.

$$SAR = (Etot^2 \cdot \sigma) / (\varepsilon \cdot 1000)$$

With SAR = local specific absorption rate in mW/g

Etot = total field strength in V/m

σ= conductivity in [mho/m] or [Siemens/m]

ε= equivalent tissue density in g/cm3

Note that the density is normally set to 1 (or 1.06), to account for actual brain density rather than the density of the simulation liquid. The power flow density is calculated assuming the excitation field to be a free space field.

$$P_{pwe} = E_{tot}^2 \frac{2}{3770} P_{pwe} = H_{tot}^2 \cdot 37.7$$

with Ppwe = equivalent power density of a plane wave in mW/cm2

Etot = total electric field strength in V/m

Htot = total magnetic field strength in A/m



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Report No.: KSCR211200031001

Page: 22 of 43

4 SAR measurement variability and uncertainty

4.1 SAR measurement variability

Per KDB865664 D01 SAR measurement 100 MHz to 6 GHz v01r04, SAR measurement variability must be assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. The additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is remounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

- 1) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg; steps 2) through 4) do not apply.
- 2) When the original highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.
- 3) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).
- 4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.

The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.



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Report No.: KSCR211200031001

Page: 23 of 43

4.2 SAR measurement uncertainty

Per KDB865664 D01 SAR Measurement 100 MHz to 6 GHz, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg, the extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval. The equivalent ratio (1.5/1.6) is applied to extremity and occupational exposure conditions.



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Report No.: KSCR211200031001

Page: 24 of 43

5 Description of Test Position

5.1 The Body Test Position

Per KDB inquiry, SAR can test the sides near the antenna, the surface of the device should be tested for SAR compliance with device touching the phantom. The SAR Exclusion Threshold in KDB 447498 D01 can be applied to determine SAR test exclusion for adjacent edge configurations. The closest distance from the antenna to an adjacent device surface is used to determine if SAR testing is required for the adjacent surfaces, with the adjacent surface positioned against the phantom and the surface containing the antenna positioned perpendicular to the phantom.



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Report No.: KSCR211200031001

Page: 25 of 43

6 SAR System Verification Procedure

6.1 Tissue Simulate Liquid

6.1.1 Recipes for Tissue Simulate Liquid

The bellowing tables give the recipes for tissue simulating liquids to be used in different frequency bands:

Ingredients	Frequency (MHz)											
(% by weight)	4	50	83	35	915		1900		2450			
Tissue Type	Head	Body	Head	Body	Head	Body	Head	Body	Head	Body		
Water	38.56	51.16	41.45	52.4	41.05	56.0	54.9	40.4	62.7	73.2		
Salt (NaCl)	3.95	1.49	1.45	1.4	1.35	0.76	0.18	0.5	0.5	0.04		
Sugar	56.32	46.78	56.0	45.0	56.5	41.76	0.0	58.0	0.0	0.0		
HEC	0.98	0.52	1.0	1.0	1.0	1.21	0.0	1.0	0.0	0.0		
Bactericide	0.19	0.05	0.1	0.1	0.1	0.27	0.0	0.1	0.0	0.0		
Triton X-100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36.8	0.0		
DGBE	0.0	0.0	0.0	0.0	0.0	0.0	44.92	0.0	0.0	26.7		
Dielectric Constant	43.42	58.0	42.54	56.1	42.0	56.8	39.9	54.0	39.8	52.5		
Conductivity (S/m)	0.85	0.83	0.91	0.95	1.0	1.07	1.42	1.45	1.88	1.78		

HSL5GHz is composed of the following ingredients:

Water: 50-65% Mineral oil: 10-30% Emulsifiers: 8-25% Sodium salt: 0-1.5%

MSL5GHz is composed of the following ingredients:

Water: 64-78%
Mineral oil: 11-18%
Emulsifiers: 9-15%
Sodium salt: 2-3%

Table 3: Recipe of Tissue Simulate Liquid



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Report No.: KSCR211200031001

Page: 26 of 43

6.1.2 Test Liquids Confirmation

Simulated tissue liquid parameter confirmation

The dielectric parameters were checked prior to assessment using the SPEAG DAK3.5 dielectric probe kit. The dielectric parameters measured are reported in each correspondent section.

IEEE SCC-34/SC-2 P1528 recommended tissue dielectric parameters

The head tissue dielectric parameters recommended by the IEEE SCC-34/SC-2 in P1528 have been incorporated in the following table. These head parameters are derived from planar layer models simulating the highest expected SAR for the dielectric properties and tissue thickness variations in a human head. Other head and body tissue parameters that have not been specified in P1528 are derived from the tissue dielectric parameters computed from the 4-Cole-Cole equations and extrapolated according to the head parameters specified in P1528

Target Frequency	He	ad	Во	
(MHz)	$\epsilon_{ m r}$	σ (S/m)	ϵ_{r}	σ (S/m)
150	52.3	0.76	61.9	0.80
300	45.3	0.87	58.2	0.92
450	43.5	0.87	56.7	0.94
835	41.5	0.90	55.2	0.97
900	41.5	0.97	55.0	1.05
915	41.5	0.98	55.0	1.06
1450	40.5	1.20	54.0	1.30
1610	40.3	1.29	53.8	1.40
1800-2000	40.0	1.40	53.3	1.52
2450	39.2	1.80	52.7	1.95
3000	38.5	2.40	52.0	2.73
5800	35.3	5.27	48.2	6.00

(ε_r = relative permittivity, σ = conductivity and ρ = 1000 kg/m³)



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Report No.: KSCR211200031001

Page: 27 of 43

6.1.3 Measurement for Tissue Simulate Liquid

The dielectric properties for this Tissue Simulate Liquids were measured by using the SPEAG DAK3.5 dielectric probe kit in conjunction with Agilent E5071B Network Analyzer (300 KHz-8500 MHz). The Conductivity (σ) and Permittivity (ρ) are listed in bellow table. For the SAR measurement given in this report. The temperature variation of the Tissue Simulate Liquids was 22±2°C.

Tissue Type	Measured Frequency (MHz)	Conductivity (σ)	Permittivity (ε _r)	Conductivity Target (σ)	Permittivity Target (ε _r)	Delta (σ) (%)	Delta (ε _r) (%)	Limit (%)	Liquid Temp. (℃)	Date
2450 Head	2450	1.824	39.15	1.80	39.20	1.33	-0.13	±5	22	2021/12/21

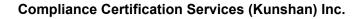
Table 4: Measurement result of Tissue electric parameters



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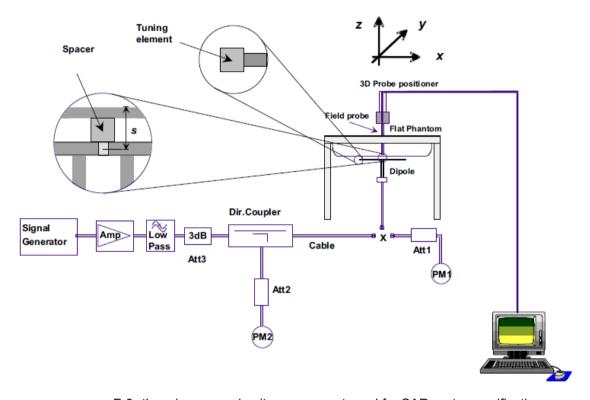


Report No.: KSCR211200031001

Page: 28 of 43

6.2 SAR System Check

The microwave circuit arrangement for system check is sketched in bellow figure. The daily system accuracy verification occurs within the flat section of the SAM phantom. A SAR measurement was performed to see if the measured SAR was within +/- 10% from the target SAR values. The tests were conducted on the same days as the measurement of the EUT. The obtained results from the system accuracy verification are displayed in the following table. During the tests, the ambient temperature of the laboratory was in the range 22±2°C, the relative humidity was in the range 60% and the liquid depth above the ear reference points was above 15 cm in all the cases. It is seen that the system is operating within its specification, as the results are within acceptable tolerance of the reference values.



F-3. the microwave circuit arrangement used for SAR system verification



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Report No.: KSCR211200031001

Page: 29 of 43

6.2.1 Justification for Extended SAR Dipole Calibrations

- 1) Referring to KDB865664 D01 requirements for dipole calibration, instead of the typical annual calibration recommended by measurement standards, longer calibration intervals of up to three years may be considered when it is demonstrated that the SAR target, impedance and return loss of a dipole have remain stable according to the following requirements. Each measured dipole is expected to evaluate with the following criteria at least on annual interval in Appendix C.
- a) There is no physical damage on the dipole;
- b) System check with specific dipole is within 10% of calibrated value;
- c) Return-loss is within 10% of calibrated measurement;
- d) Impedance is within 5Ω from the previous measurement.
- 2) Network analyzer probe calibration against air, distilled water and a shorting block performed before measuring liquid parameters.



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Page: 30 of 43

6.2.2 Summary System Check Result(s)

Validation Kit		Measured SAR 250mW	Measured SAR 250mW	SAR 250mW SAR (normalized to 1w)		Target SAR (normalized to 1w) (±10%)	Target SAR (normalized to 1w) (±10%) Liquid Temp. (℃)		Measured Date
		1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	1-g(W/kg)	10-g(W/kg)		
D2450V2	Head	13.8	6.21	55.2	24.84	53 (47.70~58.30)	24.6 (22.14~27.60)	22	2021/12/21

Table 5: SAR System Check Result

6.2.3 Detailed System Check Results

Please see the Appendix A



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Page: 31 of 43

7 Test Configuration

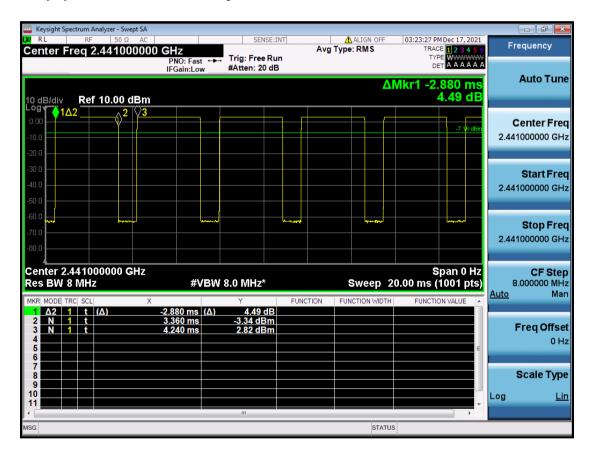
7.1 Operation Configurations

7.1.1 BluetoothTest Configuration

For the Bluetooth SAR tests, a communication link is set up with the test mode software for BT mode test. Bluetooth USES frequency hopping technology to divide the transmitted data into packets and transmit the packets respectively through 79 designated Bluetooth channels, 1MHz Bandwidth, frequency hops at 1600 hops/second per the Bluetooth standard. The Radio Frequency Channel Number (RFCN) is allocated to 0, 39 and 78 respectively in the case of 2402~2480 MHz during the test at each test frequency channel, the EUT is operated at the RF continuous emission mode.

7.1.1.1 Duty cycle

Bluetooth duty cycle: Left Earbud 76.6%, Right Earbud 76.19%





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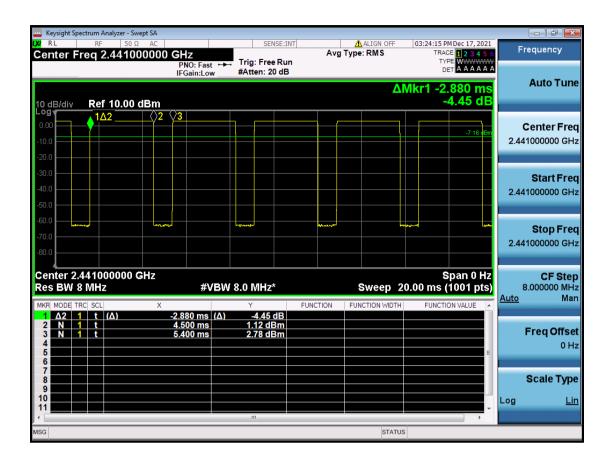
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Page: 32 of 43





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Report No.: KSCR211200031001

Page: 33 of 43

8 Test Result

8.1 Measurement of RF Conducted Power

8.1.1 Conducted Power Of BT

	ВТ		Left Ea	arbuds	Right E	arbuds
Modulation	Channel	Frequency(MHz)	Average Conducted Power(dBm)	Tune up (dBm)	Average Conducted Power(dBm)	Tune up (dBm)
	0	2402	8.42	10	9.27	10
GFSK	39	2441	8.67	10	9.43	10
	78	2480	9.2	10	9.87	10
	0	2402	8.38	10	9.26	10
π/4DQPSK	39	2441	8.65	10	9.43	10
	78	2480	9.23	10	9.88	10
	0	2402	8.4	10	9.30	10
8DPSK	39	2441	8.65	10	9.45	10
	78	2480	9.24	10	9.90	10
Modulation	BLE/1M Channel	Frequency(MHz)	Average Conducted Power(dBm)	Tune up (dBm)	Average Conducted Power(dBm)	Tune up (dBm)
05014	0	2402	8.31	10	9.25	10
GFSK 1M	19	2440	8.57	10	9.40	10
IIVI	39	2480	9.17	10	9.86	10
OFOK	0	2402	0.84	3	1.82	3
GFSK 2M	19	2440	1.3	3	2.23	3
2101	39	2480	2.09	3	2.82	3

Table 6: Conducted Power of BT



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Report No.: KSCR211200031001

Page: 34 of 43

8.2 The EUT Sides SAR Test

The following SAR test exclusion Thresholds based on KDB 447498 D01 General RF Exposure Guidance v06) 4.3.1)

Freq.Band	Frequency (MHz)	Position	Max Power (dBm)	Antenna Gain (dBi)	Max Power (mW)	Antenna to user (mm)	SAR exclusion threshold	Exclusion Threshold	Exclusion (Yes/No)
	2480	side 1	10	-0.24	10	4	3.9	3.0	No
	2480	side 2	10	-0.24	10	4	3.9	3.0	No
	2480	side 3	10	-0.24	10	4	3.9	3.0	No
	2480	side 4	10	-0.24	10	4	3.9	3.0	No
	2480	side 5	10	-0.24	10	14	1.1	3.0	Yes
BT	2480	side 6	10	-0.24	10	1	15.7	3.0	No
ы	2480	side 7	10	-1.61	10	4	3.9	3.0	No
	2480	side 8	10	-1.61	10	4	3.9	3.0	No
	2480	side 9	10	-1.61	10	4	3.9	3.0	No
	2480	side 10	10	-1.61	10	4	3.9	3.0	No
	2480	side 11	10	-1.61	10	14	1.1	3.0	Yes
	2480	side 12	10	-1.61	10	1	15.7	3.0	No

Note:

- 1. Maximum power is the source-based time-average power and represents the maximum RF output power among production units
- 2. Per KDB 447498 D01, for larger devices, the test separation distance of adjacent edge configuration is determined by the closest separation between the antenna and the user.
- Per KDB 447498 D01, standalone SAR test exclusion threshold is applied; If the distance of the antenna to the user is < 5mm, 5mm is used to determine SAR exclusion threshold
- 4. Per KDB 447498 D01, the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] ·[√f(GHz)] ≤ 3.0 for

1-g SAR and ≤ 7.5 for 10-g extremity SAR

- □ f(GHz) is the RF channel transmit frequency in GHz
- ☐ Power and distance are rounded to the nearest mW and mm before calculation
- ☐ The result is rounded to one decimal place for comparison
- ☐ For < 50 mm distance, we just calculate mW of the exclusion threshold value (3.0) to do compare.

This formula is [3.0] / [\(f(GHz) \)] \((min. test separation distance, mm) \)] = exclusion threshold of mW.

- 5. Per KDB 447498 D01, at 100 MHz to 6 GHz and for test separation distances > 50 mm, the SAR test exclusion threshold is determined according to the following
- a) [Threshold at 50 mm in step 1) + (test separation distance 50 mm)·(f(MHz)/150)] mW, at 100 MHz to 1500 MHz
- b) [Threshold at 50 mm in step 1) + (test separation distance 50 mm)·10] mW at > 1500 MHz and ≤ 6 GHz
- 6. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.
- 7. We only evaluate the DH5 mode with the highest power



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Report No.: KSCR211200031001

Page: 35 of 43

8.3 Measurement of SAR Data

8.3.1 SAR Result Of Bluetooth

Test position	Test mode	Test Ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Cond ucted power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.	SAR Limit (W/kg) 1g
	Head Test data for Left Earbud												
Side 1	DH5	78/2480	76.60%	1.305	0.224	0.072	-0.05	9.20	10.00	1.202	0.351	22.0	1.6
Side 2	DH5	78/2480	76.60%	1.305	0.090	0.031	0.02	9.20	10.00	1.202	0.141	22.0	1.6
Side 3	DH5	78/2480	76.60%	1.305	0.082	0.033	0.08	9.20	10.00	1.202	0.129	22.0	1.6
Side 4	DH5	78/2480	76.60%	1.305	0.222	0.071	-0.04	9.20	10.00	1.202	0.348	22.0	1.6
Side 5	DH5	78/2480	76.60%	1.305	0.033	0.016	0.08	9.20	10.00	1.202	0.052	22.0	1.6
Side 6	DH5	78/2480	76.60%	1.305	0.505	0.149	-0.06	9.20	10.00	1.202	0.792	22.0	1.6
Side 6	DH5	0/2402	76.60%	1.305	0.311	0.100	-0.07	8.42	10.00	1.439	0.584	22.0	1.6
Side 6	DH5	39/2441	76.60%	1.305	0.486	0.143	-0.06	8.67	10.00	1.358	0.861	22.0	1.6
					Head Tes	st data for	Right Ear	bud					
Side 7	DH5	78/2480	76.19%	1.313	0.197	0.076	-0.06	9.87	10.00	1.030	0.267	22.0	1.6
Side 8	DH5	78/2480	76.19%	1.313	0.237	0.077	-0.02	9.87	10.00	1.030	0.321	22.0	1.6
Side 9	DH5	78/2480	76.19%	1.313	0.184	0.068	-0.03	9.87	10.00	1.030	0.249	22.0	1.6
Side 10	DH5	78/2480	76.19%	1.313	0.055	0.026	0.06	9.87	10.00	1.030	0.074	22.0	1.6
Side 11	DH5	78/2480	76.19%	1.313	0.041	0.018	0.05	9.87	10.00	1.030	0.055	22.0	1.6
Side 12	DH5	78/2480	76.19%	1.313	0.541	0.170	-0.06	9.87	10.00	1.030	0.732	22.0	1.6
Side 12	DH5	0/2402	76.19%	1.313	0.453	0.144	0.05	9.27	10.00	1.183	0.704	22.0	1.6
Side 12	DH5	39/2441	76.19%	1.313	0.479	0.147	0.03	9.43	10.00	1.140	0.717	22.0	1.6

Table 7: SAR Result Of Bluetooth Note:

- 1) The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B
- 2) The scaled SAR = Measured SAR(W/kg)1-g * Duty Cycle Scaled factor * Scaled factor
- 3) Duty Cycle Scaled factor = 100% Duty Cycle / Measured Duty Cycle
- 4) If the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for such test configuration(s). When the reported SAR is > 0.8 W/kg, SAR is required for that exposure configuration using the next highest measured output power channel.
- 5) The customer requires testing all Channels.



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Report No.: KSCR211200031001

Page: 36 of 43

9 Equipment list

Test Platform	SPEAG DASY5 Professional
Location	Compliance Certification Services (Kunshan) Inc.
Software Reference	DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Hardware Reference

	Equipment	Manufacturer	Model	Serial Number	Calibration Date	Due date of calibration
	PC	HP	Core(rm)3.16G	CZCO48171H	N/A	N/A
\boxtimes	Signal Generator	Agilent	N5182A	MY50142015	2021/08/27	2022/08/26
	S-Parameter Network Analyzer	Agilent	E5071B	MY42301382	2021/02/01	2022/01/31
\boxtimes	DAK-3.5 probe	SPEAG	DAK-3.5	1102	N/A	N/A
\boxtimes	Power meter	Anritsu	ML2495A	1445010	2021/04/15	2022/04/14
\boxtimes	Power sensor	Anritsu	MA2411B	1339220	2021/04/15	2022/04/14
\boxtimes	DAE	SPEAG	DAE4	1245	2021/05/19	2022/05/18
\boxtimes	E-field PROBE	SPEAG	EX3DV4	3798	2021/05/31	2022/05/30
\boxtimes	Dipole	SPEAG	D2450V2	817	2019/06/10	2022/06/09
	Electro Thermometer	DTM	DTM3000	3030	2021/10/16	2022/10/15
\boxtimes	Amplifier	Mini-circuits	ZVE-8G	110405	N/A	N/A
\boxtimes	Amplifier	Mini-circuits	ZHL-42	QA1331003	N/A	N/A
\square	3db ATTENUATOR	MINI	MCL BW-S3W5	0533	N/A	N/A
\square	DUMMY PROBE	SPEAG	DP_2	SPDP2001AA	N/A	N/A
	Dual Directional Coupler	Woken	20W couple	DOM2BHW1A1	N/A	N/A
	SAM PHANTOM (ELI4 v4.0)	SPEAG	QDOVA001BB	1102	N/A	N/A
\boxtimes	Twin SAM Phantom	SPEAG	QD000P40CD	1609	N/A	N/A
	ROBOT	SPEAG	TX60	F10/5E6AA1/A101	N/A	N/A
\boxtimes	ROBOT KRC	SPEAG	CS8C	F10/5E6AA1/C101	N/A	N/A
\boxtimes	LIQUID CALIBRATION KIT	ANTENNESSA	41/05 OCP9	00425167	N/A	N/A

Note: All the equipments are within the valid period when the tests are performed.

All measurement facilities used to collect the measurement data are located at

No.10, Weiye Rd., Innovation Park, Eco & Tec. Development Part, Kunshan City, Jiangsu Province, China.



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Report No.: KSCR211200031001

Page: 37 of 43

10 Calibration certificate

Please see the Appendix C

11 Photographs

Please see the Appendix D



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Report No.: KSCR211200031001

Page: 38 of 43

Appendix A: Detailed System Check Results

The plots are showing as followings.



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Report No.: KSCR211200031001

Page: 39 of 43

Date: 2021/12/21

Test Laboratory: Compliance Certification Services (Kunshan) Inc.

System Performance Check-Head 2450MHz

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 817

Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium parameters used: f = 2450 MHz; σ = 1.824 S/m; ϵ_r = 39.15; ρ = 1000 kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

• Probe: EX3DV4 - SN3798; ConvF(7.33, 7.33, 7.33); Calibrated: 2021/05/31;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1245; Calibrated: 2021/05/19

Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

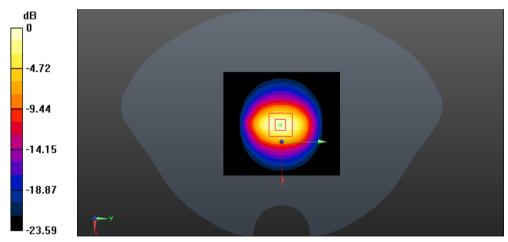
System Performance Check at Frequencies above 1 GHz/Pin=250 mW, dist=10mm (EX-Probe)/Area Scan (81x91x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm Maximum value of SAR (interpolated) = 24.8 W/kg

System Performance Check at Frequencies above 1 GHz/Pin=250 mW, dist=10mm (EX-Probe)/Zoom Scan

(7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 109.8 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 30.0 W/kg

SAR(1 g) = 13.8 W/kg; SAR(10 g) = 6.21 W/kg Maximum value of SAR (measured) = 24.0 W/kg



0 dB = 24.0 W/kg = 13.80 dBW/kg



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Page: 40 of 43

Appendix B: Detailed Test Results

The plots of worse case are showing as followings.



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Report No.: KSCR211200031001

Page: 41 of 43

Date: 2021/12/21

Test Laboratory: Compliance Certification Services (Kunshan) Inc.

Bluetooth DH5 1Mbps Side 6 Ch39 0mm

DUT: Bluetooth Headset; Type: REFLECT

Communication System: UID 0, Bluetooth (0); Frequency: 2441 MHz;Duty Cycle: 1:1 Medium parameters used: f = 2441 MHz; $\sigma = 1.805$ S/m; $\epsilon_r = 39.113$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 SN3798; ConvF(7.33, 7.33, 7.33); Calibrated: 2021/05/31;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 2021/05/19
- Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

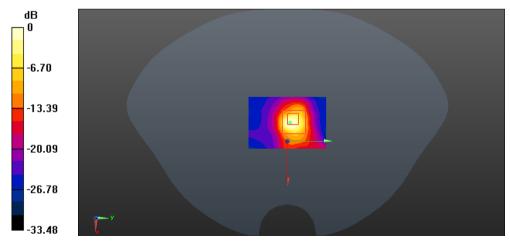
Configuration/Body/Area Scan (41x61x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm Maximum value of SAR (interpolated) = 1.95 W/kg

Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 30.64 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 2.90 W/kg

SAR(1 g) = 0.486 W/kg; SAR(10 g) = 0.143 W/kg

Maximum value of SAR (measured) = 1.54 W/kg



0 dB = 1.54 W/kg = 1.88 dBW/kg



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Report No.: KSCR211200031001

Page: 42 of 43

Date: 2021/12/21

Test Laboratory: Compliance Certification Services (Kunshan) Inc.

Bluetooth DH5 1Mbps Side 12 Ch78 0mm

DUT: Bluetooth Headset; Type: REFLECT

Communication System: UID 0, Bluetooth (0); Frequency: 2480 MHz; Duty Cycle: 1:1 Medium parameters used: f = 2480 MHz; $\sigma = 1.851 \text{ S/m}$; $\epsilon_r = 39.015$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: EX3DV4 - SN3798; ConvF(7.33, 7.33, 7.33); Calibrated: 2021/05/31;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1245; Calibrated: 2021/05/19

Phantom: Twin SAM Phantom; Type: QD 000 P40 CD; Serial: 1609

Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

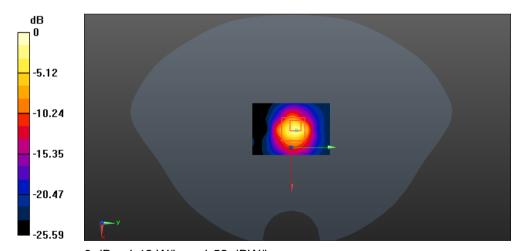
Configuration/Body/Area Scan (41x61x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm Maximum value of SAR (interpolated) = 0.877 W/kg

Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 21.35 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 2.70 W/kg

SAR(1 g) = 0.541 W/kg; SAR(10 g) = 0.170 W/kg Maximum value of SAR (measured) = 1.42 W/kg



0 dB = 1.42 W/kg = 1.52 dBW/kg



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Page: 43 of 43

Appendix C: Calibration certificate

Appendix D: Photographs

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No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300 中国・江苏・昆山市留学生创业园伟业路10号 邮编 215300