



SAR EVALUATION REPORT

For

Tait International Limited

245 Wooldridge Road, Harewood, P.O. Box 1645 Christchurch 8051 New Zealand

FCC ID: CASTPEH7E

Report Type: **Product Type:** CIIPC Report Two way radio **Report Number:** RDG200323018-20A **Report Date:** 2020-05-18 pucky xiao Rocky Xiao RF Engineer **Reviewed By:** Prepared By: Bay Area Compliance Laboratories Corp. (Dongguan) No.69 Pulongcun, Puxinhu Industry Area, Tangxia, Dongguan, Guangdong, China Tel: +86-769-86858888 Fax: +86-769-86858891 www.baclcorp.com.cn

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Attestation of Test Results							
EUT Description	Two way radio						
Tested Model	T03-00303-HCAA, T03-00303-	HBAA, T03-00303-	HAAA				
FCC ID	CASTPEH7E						
Serial Number	LC201150001-HC (T03-00303-HCAA) LC201150001-HB (T03-00303-HBAA) LC201150001-HA (T03-00303-HAAA)						
Test Date	2020-04-06	,					
Mode	Max. SAR Level(s) Repo	orted(W/kg)	Limit				
PTT	1g Head SAR(Face Up)	3.15					
(450-520MHz)	1g Body SAR(Body Back)	5.35					
GA 3:	1g Head SAR(Face Up)	3.17					
Simultaneous	1g Body SAR(Body Back)	5.43					
PTT (450-520MHz)	1g Head SAR(Face Up)	3.12					
	1g Body SAR(Body Back)	5.30	0.0.00//				
Simultaneous	1g Head SAR(Face Up)	3.14	8.0 (W/kg)				
	1g Body SAR(Body Back)	5.38					
PTT	1g Head SAR(Face Up)	2.85					
(450-520MHz)	1g Body SAR(Body Back)	5.18					
Simultanaous	1g Head SAR(Face Up)	2.87					
Simultaneous	1g Body SAR(Body Back)	5.26					
		o devices					
IEEE1528:2013 IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques IEC 62209-1:2016 Measurement procedure for the assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices – Part 1: Devices used next to the ear (Frequency range of 300 MHz to 6 GHz) KDB procedures KDB 447498 D01 General RF Exposure Guidance v06 KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04							
	Tested Model FCC ID Serial Number Test Date Mode PTT (450-520MHz) Simultaneous PTT (450-520MHz) Simultaneous PTT (450-520MHz) Simultaneous FCC 47 CFR part 2. Radiofrequency radia RF Exposure Proced IEEE1528:2013 IEEE Recommended Absorption Rate (SAI) Measurement Technic IEC 62209-1:2016 Measurement proceder radio frequency fields Part 1: Devices used 1 KDB procedures KDB 447498 D01 Ge KDB 865664 D01 SAI KDB 865664 D02 RF	Tested Model To3-00303-HCAA, T03-00303-FCC ID CASTPEHTE LC201150001-HC (T03-00303-LC201150001-HB (T03-00303-LC201150001-HB (T03-00303-LC201150001-HA (T03-00303-LC201150001-HB (T03-00303-LC201150001-HC201150001-HB (T03-00303-LC201150001-HB (T03-00303-LC201150001-HC201150001-HB (T03-00303-LC201150001-HB (T03-00303-LC201150001-HC201150001	Tested Model T03-00303-HCAA, T03-00303-HBAA, T03-00303-FCC ID CASTPEH7E LC201150001-HC (T03-00303-HCAA) LC201150001-HB (T03-00303-HBAA) LC201150001-HB (T03-00303-HBAA) LC201150001-HA (T03-00303-HBAA) LC201150001-HA (T03-00303-HAAA) LC201150001-HA (T03-00303-HCAA) LC20115001-HA (T03-00303-HCAA) LC20115001-HA (T03-00303-HAAA) LC20115001-HA (T03-00303-HAAAA) LC20115001-HA (T03-00303-HAAAA) LC20115001-HA (T03-00303-HAAAA) LC20115001-HA (T03-003				

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Note: This wireless device has been shown to be capable of compliance for localized specific absorption rate (SAR) for Occupational/Controlled Exposure limits specified in **FCC 47 CFR part 2.1093** and has been tested in accordance with the measurement procedures specified in IEEE 1528-2013 and RF exposure KDB procedures.

The results and statements contained in this report pertain only to the device(s) evaluated.

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision	
1.0	1.0 RDG200323018-20A		2020-05-18	

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EUT DESCRIPTION

The *Tait International Limited's* product, model number: *T03-00303-HCAA* in this report is a *Two way radio*.

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* All measurement and test data in this report was gathered from production sample serial number: LC201150001-HC (T03-00303-HCAA),

LC201150001-HB (T03-00303-HBAA),

LC201150001-HA (T03-00303-HAAA) (Assigned by BACL, Dongguan). The EUT supplied by the applicant was received on 2020-03-23.

Technical Specification

Device Type:	Portable	
Exposure Category:	Occupational/Controlled Exposure	
Antonno Tymo(s)	External Antenna for PTT	
Antenna Type(s):	Internal Antenna for Bluetooth	
Body-Worn Accessories:	Belt Clip and Headset	
Face-Head Accessories:	None	
Operation Mode:	Operation Mode: PTT_FM, PTT_4FSK and Bluetooth	
Frequency Band: PTT_FM/PTT_4FSK: 450-520 MHz Bluetooth: 2402-2480 MHz		
Conducted DE Domesia	PTT_FM/PTT_4FSK: 4.465 W	
Conducted RF Power:	Bluetooth(BDR/EDR): 2.77 dBm BLE: -5.89 dBm	
Power Source:	7.4 VDC Rechargeable Battery	
Normal Operation:	Face Up and Body-worn	

Accessory list:

Manufacturer Item		Item Description
Tait International Limited	Belt Clip	Tait Belt Clip
Tait International Limited Headset		Tait Wired Audio Accessory
Tait International Limited	Antenna, T03-00340-HBAA	TP3000 Antenna 450-520MHz/GPS Stubby

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REFERENCE, STANDARDS, AND GUIDELINES

FCC:

The Report and Order requires routine SAR evaluation prior to equipment authorization of portable transmitter devices, including portable telephones. For consumer products, ANSI/IEEE standard C95.1-1992 [6], limit the whole-body-averaged SAR to 0.4 and 0.08 W/kg for the controlled and uncontrolled environments. According to the Supplement C of OET Bulletin 65 "Evaluating Compliance with FCC Guide-lines for Human Exposure to Radio frequency Electromagnetic Fields", released on Jun 29, 2001 by the FCC, the device should be evaluated at maximum output power (radiated from the antenna) under "worst-case" conditions for normal or intended use, incorporating normal antenna operating positions, device peak performance frequencies and positions for maximum RF energy coupling.

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This report describes the methodology and results of experiments performed on wireless data terminal. The objective was to determine if there is RF radiation and if radiation is found, what is the extent of radiation with respect to safety limits. SAR (Specific Absorption Rate) is the measure of RF exposure determined by the amount of RF energy absorbed by human body (or its parts) – to determine how the RF energy couples to the body or head which is a primary health concern for body worn devices. The limit below which the exposure to RF is considered safe by regulatory bodies in North America.

SAR Limits

FCC/IC Limit

	SAR (W/kg)			
EXPOSURE LIMITS	(General Population / Uncontrolled Exposure Environment)	(Occupational / Controlled Exposure Environment)		
Spatial Average (averaged over the whole body)	0.08	0.4		
Spatial Peak (averaged over any 1 g of tissue)	1.60	8.0		
Spatial Peak (hands/wrists/feet/ankles averaged over 10 g)	4.0	20.0		

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

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

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FACILITIES

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.69 Pulongcun, Puxinhu Industry Area, Tangxia, Dongguan, Guangdong, China.

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The test site has been approved by the FCC under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No.: 897218,the FCC Designation No.: CN1220.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0022.

The test sites and measurement facilities used to collect data are located at:

⊠ SAR Lab 1	SAR Lab 2
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DESCRIPTION OF TEST SYSTEM

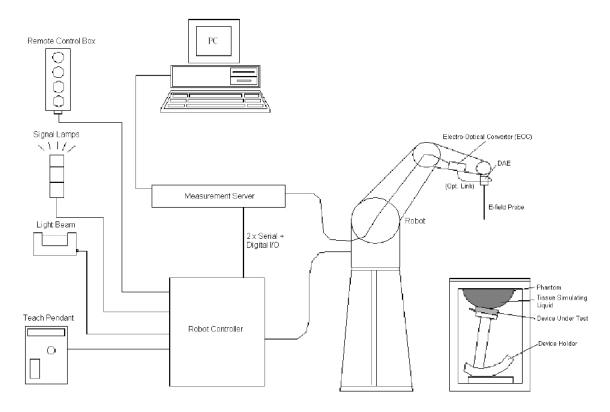
These measurements were performed with the automated near-field scanning system DASY5 from Schmid & Partner Engineering AG (SPEAG) which is the Fifth generation of the system shown in the figure hereinafter:

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DASY5 System Description

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



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- A standard high precision 6-axis robot with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
- An isotropic field probe optimized and calibrated for the targeted measurement.
- A data acquisition electronics (DAE) which performs the signal application, 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 from optical to electrical signals for the digital communication to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.
- 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.
- The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running Win7 professional operating system and the DASY52 software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps, etc.
- The phantom, the device holder and other accessories according to the targeted measurement.

DASY5 Measurement Server

The DASY5 measurement server is based on a PC/104 CPU board with a 400MHz Intel ULV Celeron, 128MB chip-disk and 128MB RAM. The necessary circuits for communication with the DAE4 (or DAE3) electronics box, as well as the 16 bit AD-converter system for optical detection and digital I/O interface are contained on the DASY5 I/O board, which is directly connected to the PC/104 bus of the CPU board.

The measurement server performs all real-time data evaluation of field measurements and surface detection, controls robot movements and handles safety operation. The PC operating system cannot interfere with these time critical



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processes. All connections are supervised by a watchdog, and disconnection of any of the cables to the measurement server will automatically disarm the robot and disable all program-controlled robot movements. Furthermore, the measurement server is equipped with an expansion port which is reserved for future applications. Please note that this expansion port does not have a standardized point out, and therefore only devices provided by SPEAG can be connected. Devices from any other supplier could seriously damage the measurement server.

Data Acquisition Electronics

The data acquisition electronics (DAE4) consist of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converter 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.

The mechanical probe mounting device includes two different sensor systems for frontal and sideways probe contacts. They are used for mechanical surface detection and probe collision detection.

The input impedance of both the DAE4 as well as of the DAE3 box is 200MOhm; the inputs are symmetrical and floating. Common mode rejection is above 80 dB.

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ES3DV2 E-Field Probes

Frequency	10 MHz to > 4 GHz Linearity: ± 0.2 dB (30 MHz to 4 GHz)
Directivity	\pm 0.2 dB in TSL (rotation around probe axis) \pm 0.3 dB in TSL (rotation normal to probe axis)
Dynamic Range	5 μ W/g to > 100 mW/g Linearity: \pm 0.2 dB (noise: typically < 1 μ W/g)
Dimensions	Overall length: 337 mm (Tip: 10 mm) Tip diameter: 4 mm (Body: 10 mm) Typical distance from probe tip to dipole centers: 4.0 mm
Application	General dosimetry up to 4 GHz Dosimetry in strong gradient fields Compliance tests of mobile phones
Compatibility	DASY3, DASY4, DASY52 SAR and higher, EASY4/MRI

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Calibration Frequency Points for ES3DV2 E-Field Probes SN: 3019 Calibrated: 2019/9/25

Calibration	Frequency l	Range(MHz)	C	onversion Facto	or
Frequency Point(MHz)	From	То	X	Y	Z
150 Head	100	200	7.59	7.59	7.59
450 Head	350	550	7.02	7.02	7.02

Robots

The DASY5 system uses the high precision industrial robot. The robot offers the same features important for our application:

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

The above mentioned robots are controlled by the Staubli CS8c robot controllers. All information regarding the use and maintenance of the robot arm and the robot controller is contained on the CDs delivered along with the robot. Paper manuals are available upon request direct from Staubli.

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Area Scans

Area scans are defined prior to the measurement process being executed with a user defined variable spacing between each measurement point (integral) allowing low uncertainty measurements to be conducted. Scans defined for FCC applications utilize a 15mm 2 step integral, with 1.5mm interpolation used to locate the peak SAR area used for zoom scan assessments.

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Where the system identifies multiple SAR peaks (which are within 25% of peak value) the system will provide the user with the option of assessing each peak location individually for zoom scan averaging.

Zoom Scan (Cube Scan Averaging)

The averaging zoom scan volume utilized in the DASY5 software is in the shape of a cube and the side dimension of a 1 g or 10 g mass is dependent on the density of the liquid representing the simulated tissue. A density of 1000 kg/m^3 is used to represent the head and body tissue density and not the phantom liquid density, in order to be consistent with the definition of the liquid dielectric properties, i.e. the side length of the 1g cube is 10 mm, with the side length of the 10 g cube is 21.5 mm.

When the cube intersects with the surface of the phantom, it is oriented so that 3 vertices touch the surface of the shell or the center of a face is tangent to the surface. The face of the cube closest to the surface is modified in order to conform to the tangent surface.

The zoom scan integer steps can be user defined so as to reduce uncertainty, but normal practice for typical test applications (including FCC) utilize a physical step of 7 x7 x 7 (5mmx5mmx5mm) providing a volume of 30 mm in the X & Y & Z axis.

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Tissue Dielectric Parameters for Head and Body Phantoms

The head tissue dielectric parameters recommended by the IEC 62209-1:2016

Recommended Tissue Dielectric Parameters for Head liquid

Table A.3 – Dielectric properties of the head tissue-equivalent liquid

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Frequency	Relative permittivity	Conductivity (σ)
MHz	$arepsilon_{ ext{r}}$	S/m
300	45,3	0,87
450	43,5	0,87
750	41,9	0,89
835	41,5	0,90
900	41,5	0,97
1 450	40,5	1,20
1 500	40,4	1,23
1 640	40,2	1,31
1 750	40,1	1,37
1 800	40,0	1,40
1 900	40,0	1,40
2 000	40,0	1,40
2 100	39,8	1,49
2 300	39,5	1,67
2 450	39,2	1,80
2 600	39,0	1,96
3 000	38,5	2,40
3 500	37,9	2,91
4 000	37,4	3,43
4 500	36,8	3,94
5 000	36,2	4,45
5 200	36,0	4,66
5 400	35,8	4,86
5 600	35,5	5,07
5 800	35,3	5,27
6 000	35,1	5,48

NOTE For convenience, permittivity and conductivity values at those frequencies which are not part of the original data provided by Drossos et al. [33] or the extension to 5 800 MHz are provided (i.e. the values shown *in italics*). These values were linearly interpolated between the values in this table that are immediately above and below these values, except the values at 6 000 MHz that were linearly extrapolated from the values at 3 000 MHz and 5 800 MHz.

Note:

- 1, Effective February 19, 2019, FCC has permitted the use of single head-tissue simulating liquid specified in IEC 62209-1 for all SAR tests.
- 2, Mix and Match of traditional FCC SAR TSLs and IEC 62209-1 TSL in a single application is not permitted TSL can be changed in a Permissive Change.
- 3, If SAR increases and original SAR > 1.2 W/kg, additional SAR measurements will be required IEC 62209-1 TSL is an alternative, not mandatory at this time.
- 4, If FCC parameters are used, $\pm 5\%$ tolerance. If IEC parameters, $\pm 10\%$.
- 5, In this case, IEC parameters applied

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EQUIPMENT LIST AND CALIBRATION

Equipments List & Calibration Information

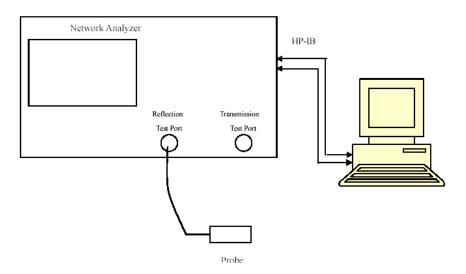
Equipment	Model	S/N	Calibration Date	Calibration Due Date
DASY5 Test Software	DASY52.10	N/A	NCR	NCR
DASY5 Measurement Server	DASY5 4.5.12	1470	NCR	NCR
Data Acquisition Electronics	DAE3	471	2019/12/25	2020/12/24
E-Field Probe	ES3DV2	3019	2019/9/25	2020/9/24
Dipole, 450MHz	D450V3	1096	2019/11/27	2022/11/26
Mounting Device	MD4HHTV5	SD 000 H01 KA	NCR	NCR
Oval Flat Phantom	ELI V8.0	2051	NCR	NCR
Simulated Tissue 450 MHz	TS-450	1709045001	Each Time	/
Network Analyzer	8753C	3033A02857	2019/8/3	2020/8/2
Dielectric assessment kit	1253	SM DAK 040 CA	NCR	NCR
synthesized signal generator	8665B	3438a00584	2019/9/12	2020/9/11
Power Meter	E4419B	MY45103907	2019/5/9	2020/5/8
Power Amplifier	ZVA-213-S+	SN054 201245	NCR	NCR
Directional Coupler	53dB	488Z	NCR	NCR
Attenuator	20dB, 100W	LN749	NCR	NCR
Attenuator	6dB, 150W	2754	NCR	NCR

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SAR MEASUREMENT SYSTEM VERIFICATION

Liquid Verification



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Liquid Verification Setup Block Diagram

Liquid Verification Results

Frequency	I iouid Tuno	Liquid Parameter		Target Value		Delta (%)		Tolerance
(MHz)	Liquid Type	ε _r	O' (S/m)	$\epsilon_{ m r}$	O' (S/m)	$\Delta \epsilon_{ m r}$	ΔΟ΄ (S/m)	(%)
450	Simulated Tissue 450 MHz	44.302	0.866	43.5	0.87	1.84	-0.46	±10
450.0125	Simulated Tissue 450 MHz	44.171	0.875	43.5	0.87	1.54	0.57	±10
467.5125	Simulated Tissue 450 MHz	43.883	0.877	43.41	0.87	1.09	0.8	±10
485.0125	Simulated Tissue 450 MHz	43.825	0.883	43.31	0.87	1.19	1.49	±10
502.4875	Simulated Tissue 450 MHz	42.405	0.887	43.22	0.87	-1.89	1.95	±10
519.9875	Simulated Tissue 450 MHz	42.296	0.893	43.13	0.87	-1.93	2.64	±10

^{*}Liquid Verification above was performed on 2020/04/06.

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System Accuracy Verification

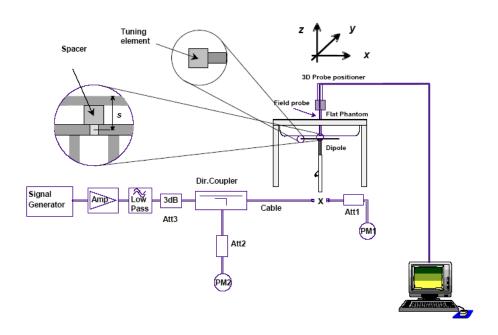
Prior to the assessment, the system validation kit was used to test whether the system was operating within its specifications of $\pm 10\%$. The validation results are tabulated below. And also the corresponding SAR plot is attached as well in the SAR plots files.

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The spacing distance s in the **System Verification Setup Block Diagram** is given by the following:

- a) $s = 15 \text{ mm} \pm 0.2 \text{ mm for } 300 \text{ MHz} \le f \le 1000 \text{ MHz};$
- b) $s = 10 \text{ mm} \pm 0.2 \text{ mm} \text{ for } 1000 \text{ MHz} < f \le 3000 \text{ MHz};$
- c) $s = 10 \text{ mm} \pm 0.2 \text{ mm}$ for 3 000 MHz $< f \le 6$ 000 MHz.
- d) s = 0 mm for f = 150 MHz(Loop Antenna).

System Verification Setup Block Diagram



System Accuracy Check Results

Date	Frequency Band	Liquid Type	Input Measured SAR (mW) (W/kg)		Normalized to 1W (W/kg)	Target Value (W/kg)	Delta (%)	Tolerance (%)	
2020/04/06	450 MHz	Simulated Tissue 450 MHz	100	1g	0.442	4.42	4.53	-2.43	±10

^{*}The SAR values above are normalized to 1 Watt forward power.

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SAR SYSTEM VALIDATION DATA

System Performance 450 MHz

DUT: Dipole 450 MHz; Type: D450V3; Serial: 1096

Communication System: CW; Frequency: 450 MHz; Duty Cycle: 1:1

Medium parameters used: f = 450 MHz; $\sigma = 0.866$ S/m; $\varepsilon_r = 44.302$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

• Probe: ES3DV2 - SN3019; ConvF(7.02, 7.02, 7.02) @ 450 MHz; Calibrated: 2019/9/25

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• Sensor-Surface: 4mm (Mechanical Surface Detection)

• Electronics: DAE3 Sn471; Calibrated: 2019/12/25

Phantom: ELI v8.0; Type: QDOVA004AA; Serial: 2051

• Measurement SW: DASY52, Version 52.10 (2); SEMCAD X Version 14.6.12 (7470)

Area Scan (61x201x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.479 W/kg

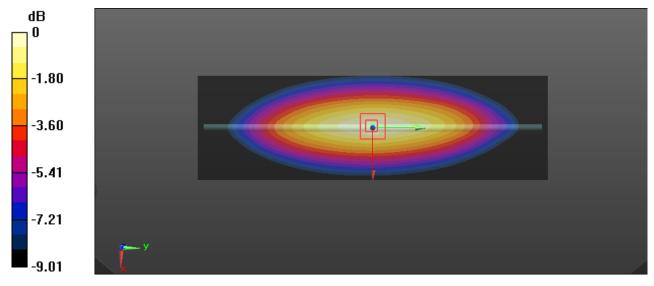
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 23.55 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.665 W/kg

SAR(1 g) = 0.442 W/kg; SAR(10 g) = 0.298 W/kg

Maximum value of SAR (measured) = 0.472 W/kg



0 dB = 0.472 W/kg = -3.26 dBW/kg

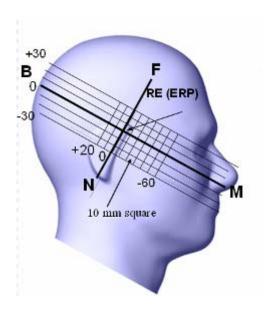
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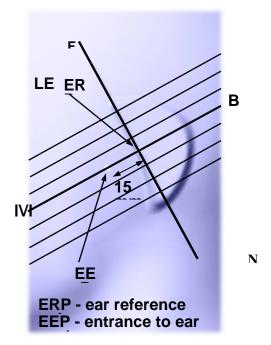
EUT TEST STRATEGY AND METHODOLOGY

Test Positions for Device Operating Next to a Person's Ear

This category includes most wireless handsets with fixed, retractable or internal antennas located toward the top half of the device, with or without a foldout, sliding or similar keypad cover. The handset should have its earpiece located within the upper ¼ of the device, either along the centerline or off-centered, as perceived by its users. This type of handset should be positioned in a normal operating position with the "test device reference point" located along the "vertical centerline" on the front of the device aligned to the "ear reference point". The "test device reference point" should be located at the same level as the center of the earpiece region. The "vertical centerline" should bisect the front surface of the handset at its top and bottom edges. A "ear reference point" is located on the outer surface of the head phantom on each ear spacer. It is located 1.5 cm above the center of the ear canal entrance in the "phantom reference plane" defined by the three lines joining the center of each "ear reference point" (left and right) and the tip of the mouth.

A handset should be initially positioned with the earpiece region pressed against the ear spacer of a head phantom. For the SCC-34/SC-2 head phantom, the device should be positioned parallel to the "N-F" line defined along the base of the ear spacer that contains the "ear reference point". For interim head phantoms, the device should be positioned parallel to the cheek for maximum RF energy coupling. The "test device reference point" is aligned to the "ear reference point" on the head phantom and the "vertical centerline" is aligned to the "phantom reference plane". This is called the "initial ear position". While maintaining these three alignments, the body of the handset is gradually adjusted to each of the following positions for evaluating SAR:





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Cheek/Touch Position

The device is brought toward the mouth of the head phantom by pivoting against the "ear reference point" or along the "N-F" line for the SCC-34/SC-2 head phantom.

This test position is established:

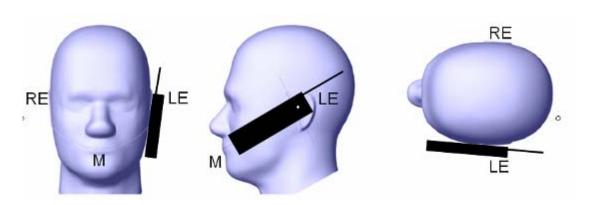
When any point on the display, keypad or mouthpiece portions of the handset is in contact with the phantom.

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(or) When any portion of a foldout, sliding or similar keypad cover opened to its intended self-adjusting normal use position is in contact with the cheek or mouth of the phantom.

For existing head phantoms – when the handset loses contact with the phantom at the pivoting point, rotation should continue until the device touches the cheek of the phantom or breaks its last contact from the ear spacer.

Cheek / Touch Position



Ear/Tilt Position

With the handset aligned in the "Cheek/Touch Position":

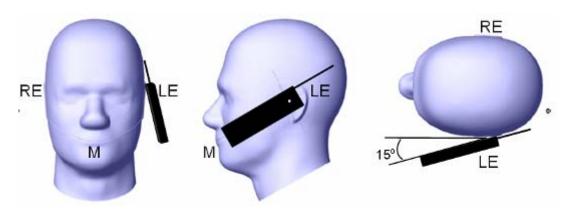
- 1) If the earpiece of the handset is not in full contact with the phantom's ear spacer (in the "Cheek/Touch position") and the peak SAR location for the "Cheek/Touch" position is located at the ear spacer region or corresponds to the earpiece region of the handset, the device should be returned to the "initial ear position" by rotating it away from the mouth until the earpiece is in full contact with the ear spacer.
- 2) (otherwise) The handset should be moved (translated) away from the cheek perpendicular to the line passes through both "ear reference points" (note: one of these ear reference points may not physically exist on a split head model) for approximate 2-3 cm. While it is in this position, the device handset is tilted away from the mouth with respect to the "test device reference point" until the inside angle between the vertical centerline on the front surface of the phone and the horizontal line passing through the ear reference point is by 15 80°. After the tilt, it is then moved (translated) back toward the head perpendicular to the line passes through both "ear reference points" until the device touches the phantom or the ear spacer. If the antenna touches the head first, the positioning process should be repeated with a tilt angle less than 15° so that the device and its antenna would touch the phantom simultaneously. This test position may require a device holder or positioner to achieve the translation and tilting with acceptable positioning repeatability.

If a device is also designed to transmit with its keypad cover closed for operating in the head position, such positions should also be considered in the SAR evaluation. The device should be tested on the left and right side of the head phantom in the "Cheek/Touch" and "Ear/Tilt" positions. When applicable, each configuration should be tested with the antenna in its fully extended and fully retracted positions. These test configurations should be tested at the high, middle and low frequency channels of each operating mode; for example, AMPS, CDMA, and TDMA. If the SAR measured at the middle channel for each test configuration (left, right, Cheek/Touch, Tilt/Ear, extended and retracted) is at least 2.0 dB lower than the SAR limit, testing at the high and low channels is optional for such test configuration(s). If the transmission band of the test device is less than 10 MHz, testing at the high and low frequency channels is optional.

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Ear /Tilt 15° Position

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Test positions for body-worn and other configurations

Body-worn operating configurations should be tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in normal use configurations. Devices with a headset output should be tested with a headset connected to the device. When multiple accessories that do not contain metallic components are supplied with the device, the device may be tested with only the accessory that dictates the closest spacing to the body. When multiple accessories that contain metallic components are supplied with the device, the device must be tested with each accessory that contains a unique metallic component. If multiple accessories share an identical metallic component (e.g., the same metallic belt-clip used with different holsters with no other metallic components), only the accessory that dictates the closest spacing to the body must be tested.

Body-worn accessories may not always be supplied or available as options for some devices that are intended to be authorized for body-worn use. A separation distance of 1.5 cm between the back of the device and a flat phantom is recommended for testing body-worn SAR compliance under such circumstances. Other separation distances may be used, but they should not exceed 2.5 cm. In these cases, the device may use body-worn accessories that provide a separation distance greater than that tested for the device provided however that the accessory contains no metallic components.

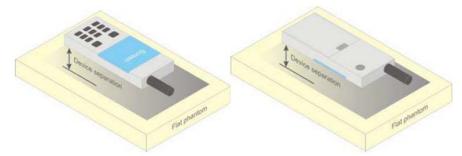


Figure 5 - Test positions for body-worn devices

Test Distance for SAR Evaluation

In this case the DUT(Device Under Test) is set directly against the phantom, the test distance is 0mm for Body Back mode; for Face Up mode the distance is 25mm.

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SAR Evaluation Procedure

The evaluation was performed with the following procedure:

Step 1: Measurement of the SAR value at a fixed location above the ear point or central position was used as a reference value for assessing the power drop. The SAR at this point is measured at the start of the test and then again at the end of the testing.

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- Step 2: The SAR distribution at the exposed side of the head was measured at a distance of 4 mm from the inner surface of the shell. The area covered the entire dimension of the head or radiating structures of the EUT, the horizontal grid spacing was 15 mm x 15 mm, and the SAR distribution was determined by integrated grid of 1.5mm x 1.5mm. Based on these data, the area of the maximum absorption was determined by spline interpolation. The first Area Scan covers the entire dimension of the EUT to ensure that the hotspot was correctly identified.
- Step 3: Around this point, a volume of 30 mm x 30 mm x 30 mm was assessed by measuring 7x 7 x 7 points. On the basis of this data set, the spatial peak SAR value was evaluated under the following procedure:
 - 1) The data at the surface were extrapolated, since the center of the dipoles is 1.2 mm away from the tip of the probe and the distance between the surface and the lowest measuring point is 1.3 mm. 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.
 - 2) The maximum interpolated value was searched with a straightforward algorithm. Around this maximum the SAR values averaged over the spatial volumes (1 g or 10 g) were computed by the 3D-Spline interpolation algorithm. The 3D-Spline is composed of three one dimensional splines with the "Not a knot"-condition (in x, y and z-directions). The volume was integrated with the trapezoidal-algorithm. One thousand points (10 x 10 x 10) were interpolated to calculate the averages.

All neighboring volumes were evaluated until no neighboring volume with a higher average value was found.

Step 4: Re-measurement of the SAR value at the same location as in Step 1. If the value changed by more than 5%, the evaluation was repeated.

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CONDUCTED OUTPUT POWER MEASUREMENT

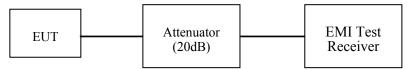
Provision Applicable

The measured peak output power should be greater and within 5% than EMI measurement.

Test Procedure

The RF output of the transmitter was connected to the input of the EMI Test Receiver through sufficient attenuation.

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The EMI Test Receiver setting:

RBW	VBW
100 kHz	300 kHz

Maximum Target Output Power

Мос	de	Max. tune-up tolerance power limit for Production
	FM_12.5kHz	4.5 (W)
PTT (450-520MHz)	FM_25kHz	4.5 (W)
(100 02011112)	4FSK_12.5kHz	4.5 (W)
Bluetooth E	BDR/EDR	3 (dBm)
Bluetoo	th LE	-5 (dBm)

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Test Results:

EUT Model	Test Mode	Frequency (MHz)	Output Power(W)	Power level
		450.0125	4.286	High
		467.5125	4.332	High
	FM 12.5 kHz	485.0125	4.416	High
	12.3 KHZ	502.4875	4.401	High
		519.9875	4.357	High
		450.0125	4.345	High
	F33.4	467.5125	4.456	High
Т03-00303-НСАА	FM 25 kHz	485.0125	4.459	High
	23 KHZ	502.4875	4.401	High
		519.9875	4.332	High
		450.0125	4.329	High
	AFGEZ	467.5125	4.281	High
	4FSK 12.5 kHz	485.0125	4.439	High
	12.3 KHZ	502.4875	4.381	High
		519.9875	4.386	High
		450.0125	4.301	High
	ED 4	467.5125	4.358	High
	FM 12.5 kHz	485.0125	4.465	High
	12.3 KHZ	502.4875	4.342	High
		519.9875	4.405	High
		450.0125	4.412	High
	FD 4	467.5125	4.332	High
Т03-00303-НВАА	FM 25 kHz	485.0125	4.429	High
		502.4875	4.339	High
		519.9875	4.346	High
		450.0125	4.322	High
	AFGEZ	467.5125	4.441	High
	4FSK 12.5 kHz	485.0125	4.333	High
	12.3 KHZ	502.4875	4.386	High
		519.9875	4.291	High
		450.0125	4.416	High
	EM	467.5125	4.352	High
	FM 12.5 kHz	485.0125	4.423	High
	1200 11112	502.4875	4.321	High
		519.9875	4.342	High
		450.0125	4.401	High
	EM	467.5125	4.385	High
Т03-00303-НААА	FM 25 kHz	485.0125	4.416	High
	23 КПZ	502.4875	4.302	High
		519.9875	4.319	High
		450.0125	4.361	High
	AEGIZ	467.5125	4.267	High
	4FSK 12.5 kHz	485.0125	4.452	High
	12.0 KHZ	502.4875	4.407	High
		519.9875	4.402	High

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Bluetooth:

Mode	Channel frequency (MHz)	RF Output Power (dBm)
	2402	2.52
BDR(GFSK)	2441	2.75
	2480	2.77
	2402	1.62
EDR(4-DQPSK)	2441	1.87
	2480	2.43
	2402	1.61
EDR(8DPSK)	2441	2.56
	2480	2.52
	2402	-7.71
Bluetooth LE	2440	-6.53
	2480	-5.89

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Antennas Location:



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Standalone SAR test exclusion considerations

Mode	Frequency (MHz)	Pavg (dBm)	Pavg (mW)	Distance (mm)	Calculated value	Threshold (1-g)	SAR Test Exclusion
BT	2480	3	2.0	0	0.6	3	YES

NOTE:

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances \leq 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] $\sqrt{f(GHz)} \le 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

- 1. f(GHz) is the RF channel transmit frequency in GHz.
- 2. Power and distance are rounded to the nearest mW and mm before calculation.
- 3. The result is rounded to one decimal place for comparison.
- 4. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test Exclusion.

Standalone SAR estimation:

Mode	Frequency (MHz)	Pavg (dBm)	Pavg (mW)	Distance (mm)	Estimated 1-g (W/kg)	
BT Face Up	2480	3	2.0	25	0.02	
BT Body Back	2480	3	2.0	0	0.08	

When standalone SAR test exclusion applies to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to following to determine simultaneous transmission SAR test exclusion:

[(max. power of channel, including tune-up tolerance , mW)/(min. test separation distance,mm)] $\cdot [\sqrt{f(GHz)/x}]$

W/kg for test separation distances ≤50 mm;

where x = 7.5 for 1-g SAR and 18.75 for 10-g SAR.

When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test Exclusion.

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SAR MEASUREMENT RESULTS

This page summarizes the results of the performed dosimetric evaluation.

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SAR Test Data

Environmental Conditions

Temperature:	21.2-22.8 ℃
Relative Humidity:	44 %
ATM Pressure:	101.3 kPa
Test Date:	2020/04/06

Testing was performed by Steve Zhou, David Li, Eric Yuan.

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Test Result:

Pre-Scan all 5 Channels, the peak SAR located on 467.5125MHz for Face Up mode and Body Back mode.

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			Enganonav	Max. Meas.	Maximum	1 g SAR Value(W/kg)						
Test M	Test Mode		Frequency (MHz)	Power (W)	output Power(W)	Scaled Factor	Meas. SAR	50%	Scaled SAR	Plot		
			450.0125	/	/	/	/	/	/	/		
	F13.4		467.5125	4.332	4.5	1.039	6.01	3.005	3.12	1#		
	FM 12.5 kHz		485.0125	/	/	/	/	/	/	/		
	12.5 KHZ		502.4875	/	/	/	/	/	/	/		
			519.9875	/	/	/	/	/	/	/		
			450.0125	/	/	/	/	/	/	/		
	FD 6	E02 00202	467.5125	4.456	4.5	1.01	6.23	3.115	3.15	2#		
	FM 25 kHz	T03-00303- HCAA	485.0125	/	/	/	/	/	/	/		
			502.4875	/	/	/	/	/	/	/		
			519.9875	/	/	/	/	/	/	/		
	4FSK 12.5 kHz		450.0125	/	/	/	/	/	/	/		
Head Face			467.5125	4.281	4.5	1.051	3.53	1.765	1.86	3#		
Up			485.0125	/	/	/	/	/	/	/		
(25 mm)			502.4875	/	/	/	/	/	/	/		
			519.9875	/	/	/	/	/	/	/		
		T03-00303- HBAA	450.0125	/	/	/	/	/	/	/		
			467.5125	4.332	4.5	1.039	6.01	3.005	3.12	4#		
	FM 25 kHz		485.0125	/	/	/	/	/	/	/		
	23 KHZ	IIDAAA	502.4875	/	/	/	/	/	/	/		
			519.9875	/	/	/	/	/	/	/		
	FM 25 kHz		450.0125	/	/	/	/	/	/	/		
		T03-00303- HAAA	467.5125	4.385	4.5	1.026	5.56	2.78	2.85	5#		
			485.0125	/	/	/	/	/	/	/		
		11/1/1/1	502.4875	/	/	/	/	/	/	/		
			519.9875	/	/	/	/	/	/	/		

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			F	Max.	Maximum		1 g SAl	R Valu	e(W/kg)	
Test Mode		Test Model	Frequency (MHz)	Meas. Power (W)	output Power(W)	Scaled Factor	Meas. SAR	50%	Scaled SAR	Plot
			450.0125	4.286	4.5	1.05	9.62	4.810	5.05	6#
			467.5125	4.332	4.5	1.039	10.2	5.100	5.30	7#
	FM 12.5 kHz		485.0125	4.416	4.5	1.019	10.1	5.050	5.15	8#
	12.5 kHz		502.4875	4.401	4.5	1.022	8.63	4.315	4.41	9#
			519.9875	4.357	4.5	1.033	8.64	4.320	4.46	10#
		=	450.0125	4.345	4.5	1.036	9.71	4.855	5.03	11#
			467.5125	4.456	4.5	1.01	10.6	5.300	5.35	12#
	FM 25 kHz	T03-00303- HCAA	485.0125	4.459	4.5	1.009	10.1	5.050	5.10	13#
	23 KIIZ	ПСАА	502.4875	4.401	4.5	1.022	8.63	4.315	4.41	14#
			519.9875	4.332	4.5	1.039	8.84	4.420	4.59	15#
		=	450.0125	/	/	/	/	/	/	/
		z	467.5125	4.281	4.5	1.051	6.49	3.245	3.41	16#
	4FSK 12.5 kHz		485.0125	/	/	/	/	/	/	/
	12.3 KIIZ		502.4875	/	/	/	/	/	/	/
Body Back			519.9875	/	/	/	/	/	/	/
(0 mm)	FM 25 kHz	T03-00303- HBAA	450.0125	/	/	/	/	/	/	/
			467.5125	4.332	4.5	1.039	10.2	5.100	5.30	17#
			485.0125	/	/	/	/	/	/	/
			502.4875	/	/	/	/	/	/	/
			519.9875	/	/	/	/	/	/	/
			450.0125	/	/	/	/	/	/	/
	_		467.5125	4.385	4.5	1.026	10.1	5.050	5.18	18#
	FM 25 kHz	T03-00303- HAAA	485.0125	/	/	/	/	/	/	/
	23 KIIZ	ПААА	502.4875	/	/	/	/	/	/	/
			519.9875	/	/	/	/	/	/	/
			450.0125	/	/	/	/	/	/	/
	_	T03-00303-	467.5125	4.456	4.5	1.01	9.95	4.975	5.02	19#
	FM 25 kHz	HCAA with	485.0125	/	/	/	/	/	/	/
	23 KIIZ	headset	502.4875	/	/	/	/	/	/	/
			519.9875	/	/	/	/	/	/	/

Note:

- 1. When the 1-g SAR is \leq 3.5W/kg, testing for other channels are optional.
- 2. KDB 447498 D01 A duty factor of 50% should be applied to determine compliance for radios with maximum operating duty factors \leq 50%. The 50% duty factor only applies to exposure conditions where the radio operates with a mechanical PTT button.
- 3. The whole antenna and radiating structures that may contribute to the measured SAR or influence the SAR distribution has been included in the area scan.
- 4. The differents between model T03-00303-HCAA, T03-00303-HBAA and T03-00303-HAAA are the hardware with display and key board , the descriptions as below, T03-00303-HCAA was selected for fully testing, T03-00303-HBAA and T03-00303-HAAA were tested the worst case.

Model	Description			
Т03-00303-НСАА	16-Key	Display		
Т03-00303-НВАА	4-Key	Display		
Т03-00303-НААА	0-Key	No Display		

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SAR Measurement Variability

In accordance with published RF Exposure KDB procedure 865664 D01 SAR measurement 100 MHz to 6 GHz v01. These 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 re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results

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- 1) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg.
- 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.
- 5) The same procedures should be adapted for measurements according to 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.

Note: 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.

The Highest Measured SAR Configuration in Each Frequency Band

Head(Face Up)

SAR probe calibration point	Eroguanay Dand	Eros (MHs)	EUT	Meas. SA	AR (W/kg)	Largest to Smallest	
	Frequency Band	Freq.(MHz)	Position	Original	Repeated	SAR Ratio	
/	/	/	/	/	/	/	

Body(Body Back)

	20df (20df 2ddi)								
	SAR probe	F	Ence (MII-)	ELIT Dogition	Meas. SAR (W/kg)		Largest to		
	calibration point	Frequency Band	Freq.(MHz)	EUT Position	Original	Repeated	Smallest SAR Ratio		
	450MHz (350-550MHz)	FM_25kHz (T03-00303-HCAA)	467.5125	Body Back	10.6	10.1	1.05		
	450MHz (350-550MHz)	FM_25kHz (T03-00303-HBAA)	467.5125	Body Back	10.2	9.86	1.03		
	450MHz (350-550MHz)	FM_25kHz (T03-00303-HAAA)	467.5125	Body Back	10.1	9.85	1.03		

Note:

- 1. Second Repeated Measurement is not required since the ratio of the largest to smallest SAR for the original and first repeated measurement is not > 1.20.
- 2. The measured SAR results **do not** have to be scaled to the maximum tune-up tolerance to determine if repeated measurements are required.
- 3. 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.

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SAR SIMULTANEOUS TRANSMISSION DESCRIPTION

Simultaneous Transmission:

Description of Simultaneous Transmit Capabilities							
Transmitter Combination	Simultaneous?	Hotspot?					
PTT + Bluetooth	√	×					

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Simultaneous and Hotspot SAR test exclusion considerations:

Mode(SAR1+SAR2)	Test Model	Position	Repo SAR(Mixed SAR Limit (Sum of	ΣSAR <
,			SAR1	SAR2	SAR-to-limit ratios)	8.0W/kg
	T03-00303-HCAA	Face Up	3.15	0.02	0.41	3.17
	103-00303-HCAA	Body Back	5.35	0.08	0.41 0.72 0.40	5.43
PTT +Bluetooth	T03-00303-HBAA	Face Up	3.12	0.02	0.40	3.14
F11 +Bluetooul	103-00303-HBAA	Body Back	5.30	0.08	0.71	5.38
	T03-00303-HAAA	Face Up	2.85	0.02	0.37	2.87
	103-00303-ПААА	Body Back	5.18	0.08	0.70	5.26

Note:

- 1. KDB 447498 D01, Occupational exposure limits do not apply to consumer devices and radio services intended for supporting public networks or Part 15 unlicensed operations, thus the limits is 1.6W/kg for Bluetooth and 8.0W/kg for PTT(PLMRS).
- 2. The initial simultaneous transmission SAR test exclusion is to be based on ratios of SAR to the applicable for each transmit mode (similar to basic concept of ratios for "mixed limits" in 7.2 of KDB Pub. 447498 D01 v06 and FCC-13-39).

Conclusion:

The **sum of SAR-to-limit ratios** is less than 1.0, thus additional analysis or simultaneous-transmit extended-volume-scan SAR is not needed.

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Bay Area Compliance Laboratories Corp. (Dongguan)	Report No.: RDG200323018-20A
SAR Plots	
Please Refer to the Attachment.	

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APPENDIX A MEASUREMENT UNCERTAINTY

The uncertainty budget has been determined for the measurement system and is given in the following Table.

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Measurement uncertainty evaluation for IEEE1528-2013 SAR test

Source of uncertainty	Tolerance/ uncertainty ± %	Probability distribution	Divisor	ci (1 g)	ci (10 g)	Standard uncertainty ± %, (1 g)	Standard uncertainty ± %, (10 g)
Measurement system							
Probe calibration	6.55	N	1	1	1	6.6	6.6
Axial Isotropy	4.7	R	√3	1	1	2.7	2.7
Hemispherical Isotropy	9.6	R	√3	0	0	0.0	0.0
Boundary effect	1.0	R	√3	1	1	0.6	0.6
Linearity	4.7	R	√3	1	1	2.7	2.7
Detection limits	1.0	R	√3	1	1	0.6	0.6
Readout electronics	0.3	N	1	1	1	0.3	0.3
Response time	0.0	R	√3	1	1	0.0	0.0
Integration time	0.0	R	√3	1	1	0.0	0.0
RF ambient conditions – noise	1.0	R	√3	1	1	0.6	0.6
RF ambient conditions–reflections	1.0	R	√3	1	1	0.6	0.6
Probe positioner mech. Restrictions	0.8	R	√3	1	1	0.5	0.5
Probe positioning with respect to phantom shell	6.7	R	√3	1	1	3.9	3.9
Post-processing	2.0	R	√3	1	1	1.2	1.2
		Test sample	e related				
Test sample positioning	2.8	N	1	1	1	2.8	2.8
Device holder uncertainty	6.3	N	1	1	1	6.3	6.3
Drift of output power	5.0	R	√3	1	1	2.9	2.9
		Phantom an	d set-up				
Phantom uncertainty (shape and thickness tolerances)	4.0	R	√3	1	1	2.3	2.3
Liquid conductivity target)	5.0	R	√3	0.64	0.43	1.8	1.2
Liquid conductivity meas.)	2.5	N	1	0.64	0.43	1.6	1.1
Liquid permittivity target)	5.0	R	√3	0.6	0.49	1.7	1.4
Liquid permittivity meas.)	2.5	N	1	0.6	0.49	1.5	1.2
Combined standard uncertainty		RSS				12.2	12.0
Expanded uncertainty 95 % confidence interval)						24.3	23.9

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Source of uncertainty	Tolerance/ uncertainty ± %	Probability distribution	Divisor	ci (1 g)	ci (10 g)	Standard uncertainty ± %, (1 g)	Standard uncertainty ± %, (10 g)
Measurement system							
Probe calibration	6.55	N	1	1	1	6.6	6.6
Axial Isotropy	4.7	R	√3	1	1	2.7	2.7
Hemispherical Isotropy	9.6	R	√3	0	0	0.0	0.0
Boundary effect	1.0	R	√3	1	1	0.6	0.6
Linearity	4.7	R	√3	1	1	2.7	2.7
Detection limits	1.0	R	√3	1	1	0.6	0.6
Readout electronics	0.3	N	1	1	1	0.3	0.3
Response time	0.0	R	√3	1	1	0.0	0.0
Integration time	0.0	R	√3	1	1	0.0	0.0
RF ambient conditions – noise	1.0	R	√3	1	1	0.6	0.6
RF ambient conditions–reflections	1.0	R	√3	1	1	0.6	0.6
Probe positioner mech. Restrictions	0.8	R	√3	1	1	0.5	0.5
Probe positioning with respect to phantom shell	6.7	R	√3	1	1	3.9	3.9
Post-processing	2.0	R	√3	1	1	1.2	1.2
		Test sampl	e related				
Test sample positioning	2.8	N	1	1	1	2.8	2.8
Device holder uncertainty	6.3	N	1	1	1	6.3	6.3
Drift of output power	5.0	R	√3	1	1	2.9	2.9
	T	Phantom ar	nd set-up	r		.	
Phantom uncertainty (shape and thickness tolerances)	4.0	R	√3	1	1	2.3	2.3
Liquid conductivity target)	5.0	R	√3	0.64	0.43	1.8	1.2
Liquid conductivity meas.)	2.5	N	1	0.64	0.43	1.6	1.1
Liquid permittivity target)	5.0	R	√3	0.6	0.49	1.7	1.4
Liquid permittivity meas.)	2.5	N	1	0.6	0.49	1.5	1.2
Combined standard uncertainty		RSS				12.2	12.0
Expanded uncertainty 95 % confidence interval)						24.3	23.9

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Declarations

Report No.: RDG200323018-20A

- 1. BACL is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with a triangle symbol "Δ". Customer model name, addresses, names, trademarks etc. are not considered data.
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- 3. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.
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***** END OF REPORT *****

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