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RF Exposure report





The following samples were submitted and identified on behalf of the client as:

Digital Camera **Product Name**

FUJIFILM Brand Name FF230001 Model No.

UNIVERSAL GLOBAL SCIENTIFIC INDUSTRIAL CO., **Applicant**

141, Lane 351, Sec.1, Taiping Road, Tsaotuen, Nantou,

542007, Taiwan

IEEE/ANSI C95.1-1992, IEEE 1528-2013 **Standards**

FCC ID COF-WMBACBM25

Date of EUT Receipt Oct. 12, 2022

Date of Test(s) Oct. 20, 2022 ~ Nov. 16, 2022

Date of Issue Dec. 09, 2022

In the configuration tested, the EUT complied with the standards specified above.

Remarks:

This report details the results of the testing carried out on one sample, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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Signed on behalf of SGS

Clerk / Kimmy Chiou	PM / Jasper Wang	Approved By / John Yeh
Kimmy Chiou	Jasper Wang	John Teh

Date: Dec. 09, 2022

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TESA2210000394EN	00	Initial creation of document	Dec. 09, 2022	Kimmy Chiou	

Note:

1. The mark " * " is the revised version of the report due to comments submitted by the certification.

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1 GENERAL INFORMATION

1.1 Test Methodology

The SAR testing method and procedure for this device is in accordance with the following standards:

IEEE/ANSI C95.1-1992

IEEE 1528-2013

KDB447498D01v06

KDB865664D01v01r04

KDB865664D02v01r02

KDB248227D01v02r02

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Description of EUT

Product Name	Digital Camera					
Brand Name	FUJIFILM	FUJIFILM				
Model No.	FF230001					
FCC ID	COF-WMBACBM25					
Duty Cycle	WLAN802.11	Refer to page 22-23				
Duty Cycle	BLE	87.2%				
	802.11 b/g/n	2.4GHz (2402 – 2480 MHz)				
Supported Radios	802.11a/n/ac	5.2GHz (5150.0 –5350.0 MHz) 5.8GHz (5725.0 – 5850.0 MHz)				
	BLE	2402 – 2480 MHz				

Note:

RF exposure evaluation covers only BLE portion, Bluetooth EDR mode not used and excluded in SAR report

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Maximum value

Summary of Maximum SAR					
	Highest SAR 1g				
Mode	Body				
	(W/kg)				
2.4G WLAN	0.06				
BLE	0.01				
5G WLAN	0.42				

1.4 **Antenna Information**

Туре	Chip Antenna				
Part Number	ANT3216A063R2455A				
Frequency(MHz)	2400~2500 5150~5250 5250~5350 5725~585				
Gain (dBi)	1.59 2.23 2.23 2.23				

Note: Antenna information is provided by the applicant.

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MEASUREMENT SYSTEM

2.1 **Test Facility**

Laboratory	Test Site Address	Test Site Name	FCC Designation number	IC CAB identifier	
	1F, No. 8, Alley 15, Lane 120, Sec. 1, NeiHu Road, Neihu	SAR 2			
	District Tainei City 11/03	SAR 6	TW0029	TW3702	
SGS Taiwan Ltd.	No. 2, Keji 1st Rd., Guishan	SAR 1			
Central RF Lab. (TAF code 3702)	Township, Taoyuan County, 33383, Taiwan	SAR 4	TW0028 TW3		
New Taipei Industria Wuku District, New	No.134, Wu Kung Road,	SAR 3			
	Wuku District, New Taipei City, Taiwan	SAR 7			

Note: Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.

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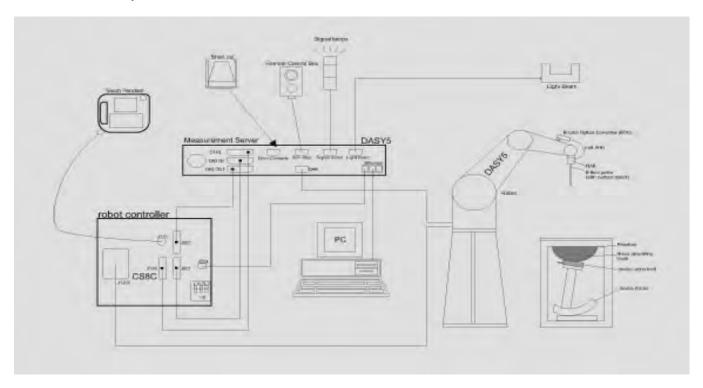


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SAR System 2.2

Block Diagram (DASY5)

A block diagram of the SAR measurement System is given in below. This SAR measurement system uses a computer-controlled 3-D stepper motor system (SPEAG DASY 5 professional system). The model EX3DV4 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-simulant.



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EX3DV4 E-Field Probe

CV2DA4 C-I	ield i lobe
Construction	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)
Calibration	Basic Broad Band Calibration in air Conversion Factors (CF) for HSL 2450/5250/5750 MHz Additional CF for other liquids and frequencies upon request
Frequency	10 MHz to > 6 GHz
Directivity	± 0.3 dB in HSL (rotation around probe axis)
_	± 0.5 dB in tissue material (rotation normal to probe axis)
Dynamic	10 μ W/g to > 100 mW/g
Range	Linearity: ± 0.2 dB (noise: typically < 1 μW/g)
Dimensions	Tip diameter: 2.5 mm
Application	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields). Only probe which enables compliance testing for frequencies up to 6 GHz with precision of better 30%.

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PHANTOM (ELI)

PHANTOW (E	LI)
Model	ELI
Construction	The ELI phantom is used 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.
Shell	2 ± 0.2 mm
Thickness	
Filling Volume	Approx. 30 liters
Dimensions	Major axis: 600 mm
	Minor axis: 400 mm

DEVICE HOLDER (ELI)

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SAR SYSTEM VERIFICATION

Tissue Simulating Liquid

For the measurement of the field distribution inside the SAM phantom with DASY, the phantom must be filled with homogeneous tissue simulating liquid. For head SAR testing, the liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15cm. For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15cm.

3.2 **Tissue Simulant Liquid measurement**

The dielectric properties for this Head-simulant fluid were measured by using the SPEAG Dielectric Assessment Kit (DAKS-3.5)

All dielectric parameters of tissue simulates were measured within 24 hours of SAR measurements. The measured conductivity and permittivity are all within ± 5% of the target values.

3.3 Measurement results of Tissue Simulant Liquid

Measured Frequency (MHz)	Liquid Temp. (°C)	Target Dielectric Constant, εr	Target Conductivity, σ (S/m)	Measured Dielectric Constant, εr	Measured Conductivity, σ (S/m)	% dev εr	% dev σ	Limit	Measurement Date
2450	22.4	39.200	1.800	39.785	1.849	1.49%	2.72%	± 5%	Nov. 06, 2022
2462	22.4	39.184	1.813	39.764	1.861	1.48%	2.65%	± 5%	Nov. 06, 2022
2480	22.4	39.160	1.832	39.743	1.880	1.49%	2.62%	± 5%	Nov. 06, 2022
5250	22.3	35.950	4.710	35.557	4.714	-1.09%	0.08%	± 5%	Nov. 06, 2022
5210	22.3	35.990	4.670	35.444	4.748	-1.52%	1.67%	± 5%	Nov. 06, 2022
5290	22.3	35.910	4.750	35.409	4.809	-1.40%	1.24%	± 5%	Nov. 06, 2022
5750	22.3	35.350	5.220	34.390	5.344	-2.72%	2.38%	± 5%	Nov. 06, 2022
5775	22.3	35.325	5.245	34.395	5.328	-2.63%	1.58%	± 5%	Nov. 06, 2022

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3.4 The composition of the tissue simulating liquid:

Simulating Liquids for 600 MHz -10 GHz, Manufactured by SPEAG:

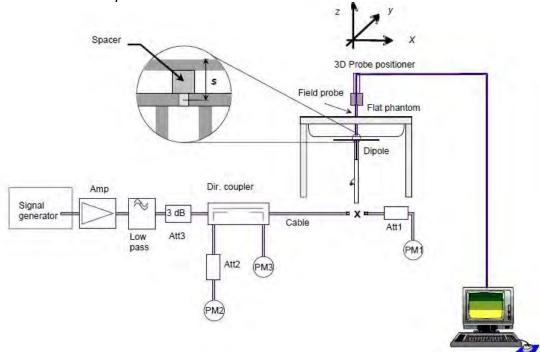
Broad-band head	SPEAG Product	Frequency range (MHz)	Main Ingredients
tissue simulating liquids	HBBL600- 10000V6	600 - 10000	Water, Oil

3.5 System check

The microwave circuit arrangement for system check is sketched in below. The daily system accuracy verification occurs within the flat section of the SAM phantom and ELI 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 DUT. The obtained results from the system accuracy verification are displayed with SAR values normalized to 1W forward power delivered to the dipole.

During the tests, the liquid depth from the center of the flat phantom to the liquid top surface was 15 cm above 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.



The block diagram of system check

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System check results

Validation Kit	S/N	Frequency (MHz)	1W Target 1g-SAR (W/kg)	pin=250mW Measured 1g-SAR (W/kg)	Normalized to 1W 1g-SAR (W/kg)	Deviation (%)	Limit	Measurement Date
D2450V2	727	2450	52.8	12.7	50.8	-3.79	± 10%	Nov.06,2022
Validation Kit	S/N	Frequency (MHz)	1W Target 1g-SAR (W/kg)	pin=100mW Measured 1g-SAR (W/kg)	Normalized to 1W 1g-SAR (W/kg)	Deviation (%)	Limit	Measurement Date
D5GHzV2	1023	5250	81	8.21	82.1	1.36	± 10%	Nov.06,2022
D5GHzV2	1023	5750	81	8.45	84.5	4.32	± 10%	Nov.06,2022

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TEST CONFIGURATIONS

4.1 **Test Environment**

Ambient Temperature: 22±2° C Tissue Simulating Liquid: 22±2° C

4.2 **Test Note**

- 1. General: Measurements are performed respectively on the lowest, middle and highest channels of the operating band(s).
- 2. General: The EUT is set to maximum power level during all tests, and at the beginning of each test the battery is fully charged.
- 3. **General:** During the SAR testing, the DASY system checks power drift by comparing the e-field strength of one specific location measured at the beginning with that measured at the end of the SAR testing.
- 4. WLAN 2.4GHz: 802.11b DSSS SAR Test Requirements: SAR is measured for 2.4 GHz 802.11b DSSS mode using the highest measured maximum output power channel, when the reported SAR of the highest measured maximum output power channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required for 802.11b DSSS in that exposure configuration. When the reported SAR is > 0.8 W/kg, SAR is required for that exposure configuration using the next highest measured output power channel. When any reported SAR is > 1.2 W/kg, SAR is required for the third channel; i.e., all channels require testing.
- 5. WLAN 2.4GHz: 802.11g/n OFDM SAR Test Exclusion Requirements: SAR is not required for 802.11g/n since the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.
- 6. WLAN 5GHz: Initial Test Configuration: An initial test configuration is determined for OFDM transmission modes according to the channel bandwidth, modulation and data rate combination(s) with the highest maximum output power specified for production units in each standalone and aggregated frequency band. SAR is measured using the highest measured maximum output power channel. When the reported SAR of the initial test configuration is > 0.8 W/kg, SAR measurement is required for the subsequent next highest measured output power channel(s) in the initial test configuration until the reported SAR is ≤ 1.2 W/kg or all required channels are tested. Since the highest reported SAR for the initial test configuration is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for subsequent test configuration.
- 7. **General:** According to KDB447498D01v06, testing of other required channels is not required when the reported 1-g SAR for the highest output channel is ≤ 0.8 W/kg, when the transmission band is ≤ 100 MHz. According to KDB865664D01v01r04, SAR measurement variability must be assessed for each frequency band. When the original highest measured SAR is ≥ 0.8 W/kg, repeated that measurement once. 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 (~ 10% from the 1-g SAR limit).

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4.3 Test position

SAR is measured for front surface / left edge with test distance 0mm.

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4.4 Test limit

§ 2.1093(d)(1)

Applications for equipment authorization of portable RF sources subject to routine environmental evaluation must contain a statement confirming compliance with the limits specified in § 1.1310 as part of their application. Technical information showing the basis for this statement must be submitted to the Commission upon request. The SAR limits specified in § 1.1310(a) through (c) of this chapter shall be used for evaluation of portable devices transmitting in the frequency range from 100 kHz to 6 GHz. Portable devices that transmit at frequencies above 6 GHz shall be evaluated in terms of the MPE limits specified in Table 1 to § 1.1310(e)(1). A minimum separation distance applicable to the operating configurations and exposure conditions of the device shall be used for the evaluation. In general, maximum time-averaged power levels must be used for evaluation. All unlicensed personal communications service (PCS) devices and unlicensed NII devices shall be subject to the limits for general population/uncontrolled exposure.

Radiofrequency radiation exposure limits.

§ 1.1310(a)

Specific absorption rate (SAR) shall be used to evaluate the environmental impact of human exposure to radiofrequency (RF) radiation as specified in § 1.1307(b) within the frequency range of 100 kHz to 6 GHz (inclusive).

§ 1.1310(b)

The SAR limits for occupational/controlled exposure are 0.4 W/kg, as averaged over the whole body, and a peak spatial-average SAR of 8 W/kg, averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the parts of the human body treated as extremities, such as hands, wrists, feet, ankles, and pinnae, where the peak spatial-average SAR limit for occupational/controlled exposure is 20 W/kg, averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube). Exposure may be averaged over a time period not to exceed 6 minutes to determine compliance with occupational/controlled SAR limits. § 1.1310(c)

The SAR limits for general population/uncontrolled exposure are 0.08 W/kg, as averaged over the whole body, and a peak spatial-average SAR of 1.6 W/kg, averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the parts of the human body treated as extremities, such as hands, wrists, feet, ankles, and pinnae, where the peak spatial-average SAR limit is 4 W/kg, averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube). Exposure may be averaged over a time period not to exceed 30 minutes to determine compliance with general population/uncontrolled SAR limits.

Note to paragraphs (a) through (c):

SAR is a measure of the rate of energy absorption due to exposure to RF electromagnetic energy. These SAR limits to be used for evaluation are based generally on criteria published by the American National Standards Institute (ANSI) for localized SAR in Section 4.2 of "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz," ANSI/IEEE Std C95.1-1992, copyright 1992 by the Institute of Electrical and Electronics Engineers, Inc., New York, New York 10017. These criteria for SAR evaluation are similar to those recommended by the National Council on Radiation Protection and Measurements (NCRP) in "Biological Effects and Exposure Criteria for Radiofrequency Electromagnetic Fields," NCRP Report No. 86, Section 17.4.5, copyright 1986 by NCRP, Bethesda, Maryland 20814. Limits for whole body SAR and peak spatial-average SAR are based

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on recommendations made in both of these documents. The MPE limits in Table 1 are based generally on criteria published by the NCRP in "Biological Effects and Exposure Criteria for Radiofrequency Electromagnetic Fields," NCRP Report No. 86, Sections 17.4.1, 17.4.1.1, 17.4.2 and 17.4.3, copyright 1986 by NCRP, Bethesda, Maryland 20814. In the frequency range from 100 MHz to 1500 MHz, these MPE exposure limits for field strength and power density are also generally based on criteria recommended by the ANSI in Section 4.1 of "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz," ANSI/IEEE Std C95.1-1992, copyright 1992 by the Institute of Electrical and Electronics Engineers, Inc., New York, New York 10017.

Portable devices that transmit at frequencies above 6 GHz shall be evaluated in terms of the MPE limits specified in Table 1 to § 1.1310(e)(1).

According to ANSI/IEEE C95.1-1992, the criteria listed in the following Table shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in §1.1310.

Peak Spatially Averaged Power Density was evaluated over a circular area of 4cm2 per interim FCC Guidance for near-field power density evaluations per October 2018 TCB Workshop notes

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Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
	(i) Limits for Oc	cupational/Controlled Ex	posure	
0.3-3.0	614	1.63	*(100)	≤6
3.0-30	1842/f	4.89/f	*(900/f ²)	<6
30-300	61.4	0.163	1.0	<6
300-1,500			f/300	<6
1,500- 100,000			5	<6
	(ii) Limits for Genera	l Population/Uncontrolle	d Exposure	
0.3-1.34	614	1.63	*(100)	<30
1.34-30	824/f	2.19/f	*(180/f ²)	<30
30-300	27.5	0.073	0.2	<30
300-1,500			f/1500	<30
1,500- 100,000			1.0	<30

f = frequency in MHz. * = Plane-wave equivalent power density. Table 1 to $\S 1.1310(e)(1)$ - Limits for Maximum Permissible Exposure (MPE)

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5 MAXIMUM OUTPUT POWER

5.1 WLAN

	Ant 1											
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)						
		1	2412		14.00	13.90						
	802.11b	6	2437	1Mbps	14.00	13.95						
		11	2462		14.00	13.97						
		1	2412		14.00	13.79						
2.45GHz	802.11g	6	2437	6Mbps	14.00	13.88						
		11	2462		14.00	13.79						
		1	2412		14.00	13.87						
	802.11n20-HT0	6	2437	MCS0	14.00	13.87						
		11	2462		14.00	13.89						

		A	Ant 1			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		36	5180		13.50	13.31
	802.11a	40	5200	6Mbps	13.50	13.26
	002.11a	44	5220	Olvibps	13.50	13.40
		48	5240		13.50	13.27
		36	5180	MCS0	13.50	13.35
	802.11n20-HT0	40	5200		13.50	13.31
	002.111120-1110	44	5220		13.50	13.30
		48	5240		13.50	13.26
5.15-5.25 GHz		36	5180		13.50	13.26
	802.11ac20-VHT0	40	5200	MCS0	13.50	13.35
	002.118020-7010	44	5220	IVICSU	13.50	13.31
		48	5240		13.50	13.28
	802.11n40-HT0	38	5190	MCS0	13.50	13.30
	002. Ι ΙΠ 4 0 - Π Ι 0	46	5230	IVICSU	13.50	13.39
	802.11ac40-VHT0	38	5190	MCS0	13.50	13.29
	002.11ac40-VH10	46	5230	IVICSU	13.50	13.33
	802.11ac80-VHT0	42	5210	MCS0	13.50	13.48

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		<i>F</i>	<u>\nt 1</u>			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		52	5260		13.50	13.34
	802.11a	56	5280	GMbps	13.50	13.33
	002.11a	60	5300	6Mbps	13.50	13.40
		64	5320		13.50	13.36
		52	5260		13.50	13.29
	802.11n20-HT0	56	5280	MCS0	13.50	13.37
	002.111120-1110	60	5300		13.50	13.39
		64	5320		13.50	13.34
5.25-5.35 GHz		52	5260		13.50	13.39
	802.11ac20-VHT0	56	5280	MCS0	13.50	13.38
	002.11aC2U-VH1U	60	5300	IVICSU	13.50	13.38
		64	5320		13.50	13.29
	902 11p40 UT0	54	5270	MCCO	13.50	13.25
	802.11n40-HT0	62	5310	MCS0	13.50	13.34
	802.11ac40-VHT0	54	5270	MCS0	13.50	13.37
	002.11a040-VH10	62	5310	IVICSU	13.50	13.37
	802.11ac80-VHT0	58	5290	MCS0	13.50	13.47

		F	Ant 1			
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		149	5745		13.50	13.28
	802.11a	157	5785	6Mbps	13.50	13.38
		165	5825		13.50	13.36
		149	5745		13.50	13.30
	802.11n20-HT0	157	5785	MCS0	13.50	13.31
		165	5825		13.50	13.35
5.8GHz		149	5745		13.50	13.32
3.001 12	802.11ac20-VHT0	157	5785	MCS0	13.50	13.37
		165	5825		13.50	13.37
	802.11n40-HT0	151	5755	MCS0	13.50	13.37
	002.111140-1110	159	5795	IVICOU	13.50	13.30
	802.11ac40-VHT0	151	5755	MCS0	13.50	13.33
	002.11a040-V1110	159	5795	IVICOU	13.50	13.28
	802.11ac80-VHT0	155	5775	MCS0	13.50	13.48

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Mode	Channel	Frequency	GFSK				
	Channel	(MHz)	Max. Rated Avg.Power + Max. Tolerance (dBm)	Average Output Power (dBm)			
	CH 00	2402		4.42			
BLE_1M	CH 19	2440	6	4.51			
	CH 39	2480		4.65			

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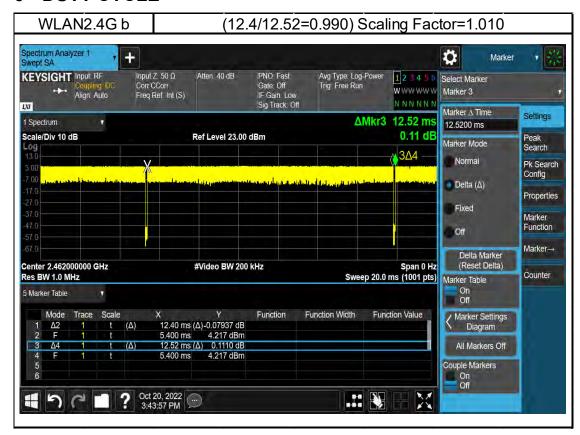
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6 DUTY CYCLE



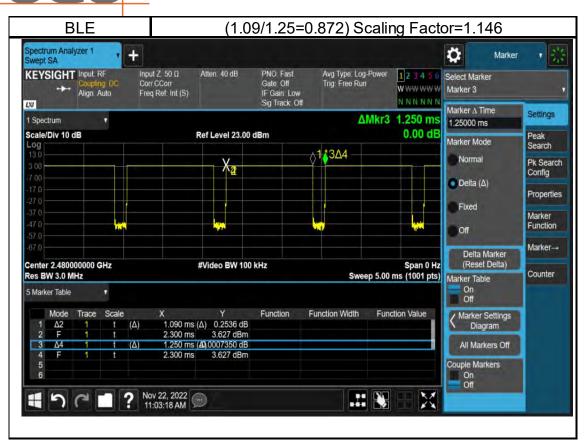
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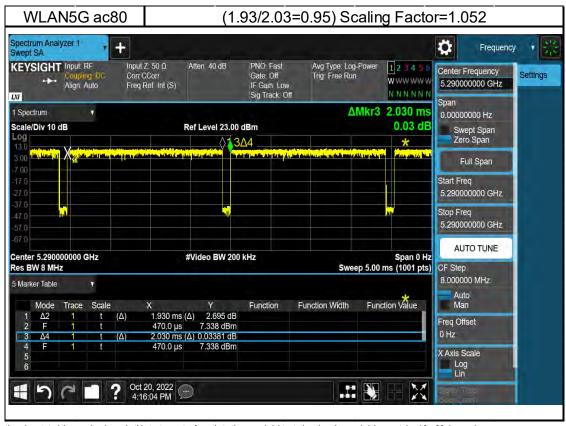
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SUMMARY OF RESULTS

Decision rules

Reported measurement data comply with Test Methodology in section 1.1. Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

7.2 **Summary of SAR Results**

Mode	Antenna	Position	Distance	Channel	Freq.	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle	Power	Averaged SAR	over 1g (W/kg)	ID	
			(mm)		(MHz)	Tolerance (dBm)	(dBm)	scaling	scaling	Measured	Reported		
WLAN 802.11b	Ant1	Front Surface	0	11	2462	14.00	13.97	1.010	100.69%	0.058	0.059	001	
WLAN 802.11b	Ant1	Left Edge	0	11	2462	14.00	13.97	1.010	100.69%	0.022	0.022	-	
Mode	Antenna	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle scaling	Power scaling		Averaged SAR over 1g (W/kg)		
			` ′		` ′	Tolerance (dBm)	(dBm)	J		Measured	Reported		
BLE(1M)	Ant1	Front Surface	0	39	2480	6.00	4.65	1.146	136.46%	0.005	0.008	002	
BLE(1M)	Ant1	Left Edge	0	39	2480	6.00	4.65	1.146	136.46%	0.001	0.002	-	
Mode	Antenna	ntenna Position	Distance (mm)	Channel	el Freq.	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID	
			(11111)		(IVII 12)	Tolerance (dBm)	(dBm)	scanny	scaning	Measured	Reported	ed	
WLAN 802.11ac(80M) 5.2G	Ant1	Front Surface	0	42	5210	13.50	13.48	1.052	100.46%	0.069	0.073	003	
WLAN 802.11ac(80M) 5.2G	Ant1	Left Edge	0	42	5210	13.50	13.48	1.052	100.46%	0.001	0.001	-	
Mode	Antenna Position	Position	Distance (mm)	Channel	Channel Freq.	Max. Rated Avg. Power + Max.	Measured Avg. Power	Power Duty cycle	Power scaling	Averaged SAR over 1g (W/kg)		ID	
			(11111)		(MHz)	Tolerance (dBm)	(dBm)	scaling	scaling	Measured	Reported		
WLAN 802.11ac(80M) 5.3G	Ant1	Front Surface	0	58	5290	13.50	13.47	1.052	100.69%	0.072	0.076	004	
WLAN 802.11ac(80M) 5.3G	Ant1	Left Edge	0	58	5290	13.50	13.47	1.052	100.69%	0.001	0.001	-	
Mode	Antenna	Position	Distance	Channel	Channel Freq.	Max. Rated Avg. Power + Max.		Duty cycle	Power	Averaged SAR over 1g (W/kg)		ID	
			(mm)		(MHz)	Tolerance (dBm)	(dBm)	scaling	scaling	Measured	Reported	ed	
WLAN 802.11ac(80M) 5.8G	Ant1	Front Surface	0	155	5775	13.50	13.48	1.052	100.46%	0.395	0.417	005	
WLAN 802.11ac(80M) 5.8G	Ant1	Left Edge	0	155	5775	13.50	13.48	1.052	100.46%	0.001	0.001	-	

Note:

Reported SAR = measured SAR * Power scaling * Duty cycle scaling

7.3 Reporting statements of conformity

The conformity statement in this report is based solely on the test results, measurement uncertainty is excluded.

7.4 Conclusion

The device is compliant because all the standalone results are less than their corresponding criteria.

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8 INSTRUMENTS LIST

		Equi	pment List		
Manufacturer	Device	Туре	Serial number	Date of last calibration	Date of next calibration
SPEAG	Data acquisition Electronics	DAE4	1665	Feb/28/2022	Feb/27/2023
SPEAG	Dosimetric E-Field Probe	EX3DV4	7642	Mar/02/2022	Mar/01/2023
SPEAG	System Validation Dipole	D2450V2	727	Apr/25/2022	Apr/24/2023
SPEAG	System Validation Dipole	D5GHzV2	1023	Jan/27/2022	Jan/26/2023
SPEAG	Dielectric Assessment Kit	DAKS-3.5	1146	Feb/21/2022	Feb/20/2023
R&S	MXG Analog Signal Generator	SMB100A03	182012	Jun/13/2022	Jun/12/2023
Agilent	Dual-directional coupler	772D	MY52180142	Oct/19/2022	Oct/18/2023
Agilent	Dual-directional coupler	778D	MY52180302	Oct/19/2022	Oct/18/2023
EMCI	Amplifier	ZVE-8G	980190	Calibration not required	Calibration not required
R&S	Power Sensor	NRP18S	101973	Jan/22/2022	Jan/21/2023
R&S	Power Sensor	NRP18S	101358	Jan/22/2022	Jan/21/2023
R&S	Power Meter	NRX	102034	Dec/28/2021	Dec/27/2022
SPEAG	Software	DASY 52 V52.10.4.152 7	N/A	Calibration not required	Calibration not required
SPEAG	Phantom	ELI	N/A	Calibration not required	Calibration not required
LKM	Digital thermometer	DTM3000	EC14010603	Sep/27/2022	Sep/26/2023
TECPEL	Digital thermometer	DTM-303A	TP131515	Sep/29/2022	Sep/28/2023

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UNCERTAINTY BUDGET

Measurement Uncertainty evaluation template for DUT SAR test (3-6G)

A	С	D	е		f	g	h=c * f / e	i=c * g / e	k
Source of Uncertainty	Tolerance/ Uncertainty	Probability Distributio	Div	Div Value	ci (1g)	ci (10g)	Standard uncertainty	Standard uncertainty	vi, or Veff
Measurement system									
Probe calibration	6.55%	N	1	1	1	1	6.55%	6.55%	00
Isotropy , Axial	3.50%	R	√3	1.732	1	1	2.02%	2.02%	∞
Isotropy, Hemispherical	9.60%	R	√3	1.732	1	1	5.54%	5.54%	∞
Modulation Response	2.40%	R	√3	1.732	1	1	1.40%	1.40%	∞
Boundary Effect	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Linearity	4.70%	R	√3	1.732	1	1	2.71%	2.71%	∞
Detection Limits	1.00%	R	√3	1.732	1	1	0.58%	0.58%	8
Readout Electronics	0.30%	Ν	1	1	1	1	0.30%	0.30%	8
Response time	0.80%	R	√3	1.732	1	1	0.46%	0.46%	8
Integration Time	2.60%	R	√3	1.732	1	1	1.50%	1.50%	∞
Measurement drift (class A evaluation)	1.75%	R	√3	1.732	1	1	1.01%	1.01%	8
RF ambient condition - noise	3.00%	R	√3	1.732	1	1	1.73%	1.73%	8
RF ambient conditions - reflections	3.00%	R	√3	1.732	1	1	1.73%	1.73%	8
Probe positioner Mechanical restrictions	0.40%	R	√3	1.732	1	1	0.23%	0.23%	8
Probe Positioning with respect to phantom shell	2.90%	R	√3	1.732	1	1	1.67%	1.67%	∞
Post-processing	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Max SAR Eval	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Test Sample related									
Test sample positioning	2.90%	N	1	1	1	1	2.90%	2.90%	M-1
Device Holder Uncertainty	3.60%	N	1	1	1	1	3.60%	3.60%	M-1
Drift of output power	5.00%	R	√3	1.732	1	1	2.89%	2.89%	∞
Phantom and Setup									
Phantom Uncertainty	4.00%	R	√3	1.732	1	1	2.31%	2.31%	∞
Liquid permittivity (mea.)	2.72%	N	1	1	0.64	0.43	1.74%	1.17%	М
Liquid Conductivity (mea.)	2.38%	N	1	1	0.6	0.49	1.43%	1.17%	М
Combined standard uncertainty		RSS					11.93%	11.82%	
Expant uncertainty (95% confidence interval), K=2							23.86%	23.65%	

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Measurement Uncertainty evaluation template for DUT SAR test (0.3-3G)

А	С	D	е		f	g	h=c * f / e	i=c * g / e	k
Source of Uncertainty	Tolerance/ Uncertainty	Probability Distributio	Div	Div Value	ci (1g)	ci (10g)	Standard uncertainty	Standard uncertainty	vi, or Veff
Measurement system									
Probe calibration	6.00%	N	1	1	1	1	6.00%	6.00%	8
Isotropy , Axial	3.50%	R	√3	1.732	1	1	2.02%	2.02%	∞
Isotropy, Hemispherical	9.60%	R	√3	1.732	1	1	5.54%	5.54%	8
Modulation Response	2.40%	R	√3	1.732	1	1	1.40%	1.40%	∞
Boundary Effect	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Linearity	4.70%	R	√3	1.732	1	1	2.71%	2.71%	∞
Detection Limits	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Readout Electronics	0.30%	N	1	1	1	1	0.30%	0.30%	∞
Response time	0.80%	R	√3	1.732	1	1	0.46%	0.46%	∞
Integration Time	2.60%	R	√3	1.732	1	1	1.50%	1.50%	∞
Measurement drift (class A evaluation)	1.75%	R	√3	1.732	1	1	1.01%	1.01%	∞
RF ambient condition - noise	3.00%	R	√3	1.732	1	1	1.73%	1.73%	∞
RF ambient conditions - reflections	3.00%	R	√3	1.732	1	1	1.73%	1.73%	∞
Probe positioner Mechanical restrictions	0.40%	R	√3	1.732	1	1	0.23%	0.23%	∞
Probe Positioning with respect to phantom shell	2.90%	R	√3	1.732	1	1	1.67%	1.67%	∞
Post-processing	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Max SAR Eval	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Test Sample related									
Test sample positioning	2.90%	N	1	1	1	1	2.90%	2.90%	M-1
Device Holder Uncertainty	3.60%	N	1	1	1	1	3.60%	3.60%	M-1
Drift of output power	5.00%	R	√3	1.732	1	1	2.89%	2.89%	8
Phantom and Setup									
Phantom Uncertainty	4.00%	R	√3	1.732	1	1	2.31%	2.31%	∞
Liquid permittivity (mea.)	1.49%	N	1	1	0.64	0.43	0.95%	0.64%	М
Liquid Conductivity (mea.)	2.72%	N	1	1	0.6	0.49	1.63%	1.33%	М
Combined standard uncertainty		RSS					11.57%	11.50%	
Expant uncertainty (95% confidence interval), K=2							23.15%	23.01%	

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10 SAR MEASUREMENT RESULTS

Date: 2022/11/6

ID: 001

Report No.: TESA2210000394EN

WLAN 802.11b_Body_Front Surface_CH 11_0mm_Ant1

Communication System: WLAN; Frequency: 2462 MHz; Duty Cycle: 1:1.01

Medium parameters used: f = 2462 MHz; $\sigma = 1.861 \text{ S/m}$; $\varepsilon_r = 39.764$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.4°C

DASY5 Configuration:

Probe: EX3DV4 - SN7642; ConvF(8.12, 8.12, 8.12); Calibrated: 2022/03/02

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1665; Calibrated: 2022/02/28

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (131x161x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.113 W/kg

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

Reference Value = 0.7541 V/m; Power Drift = 0.08 dB

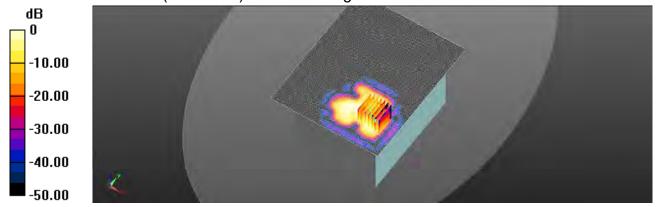
Peak SAR (extrapolated) = 0.103 W/kg

SAR(1 g) = 0.058 W/kg; SAR(10 g) = 0.028 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 58.2%

Maximum value of SAR (measured) = 0.0796 W/kg



0 dB = 0.0796 W/kg = -10.99 dBW/kg

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Date: 2022/11/6

ID: 002

Report No.: TESA2210000394EN

BLE (1M) Body Front Surface CH 39 0mm Ant1

Communication System: Bluetooth Low Energy; Frequency: 2480 MHz; Duty Cycle: 1:1.146

Medium parameters used: f = 2480 MHz; $\sigma = 1.880 \text{ S/m}$; $\epsilon_r = 39.743$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.4°C

DASY5 Configuration:

Probe: EX3DV4 - SN7642; ConvF(8.12, 8.12, 8.12); Calibrated: 2022/03/02

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1665; Calibrated: 2022/02/28

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (131x161x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.0141 W/kg

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

Reference Value = 0.5240 V/m; Power Drift = 0.12 dB

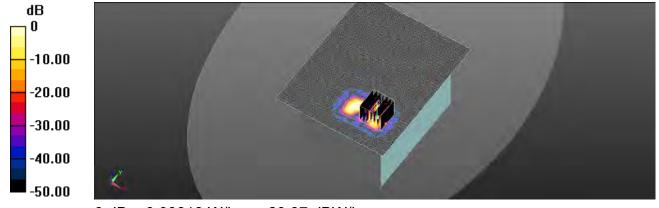
Peak SAR (extrapolated) = 0.0130 W/kg

SAR(1 g) = 0.00528 W/kg; SAR(10 g) = 0.00158 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 56.1%

Maximum value of SAR (measured) = 0.00818 W/kg



0 dB = 0.00818 W/kg = -20.87 dBW/kg

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Date: 2022/11/6

ID: 003

Report No.: TESA2210000394EN

WLAN 802.11ac(80M) 5.2G Body Front Surface CH 42 0mm Ant1

Communication System: WLAN; Frequency: 5210 MHz; Duty Cycle: 1:1.052

Medium parameters used: f = 5210 MHz; $\sigma = 4.748 \text{ S/m}$; $\varepsilon_r = 35.444$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 22.3°C

DASY5 Configuration:

Probe: EX3DV4 - SN7642; ConvF(5.69, 5.69, 5.69); Calibrated: 2022/03/02

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1665; Calibrated: 2022/02/28

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (151x191x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.165 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 0.8420 V/m; Power Drift = 0.13 dB

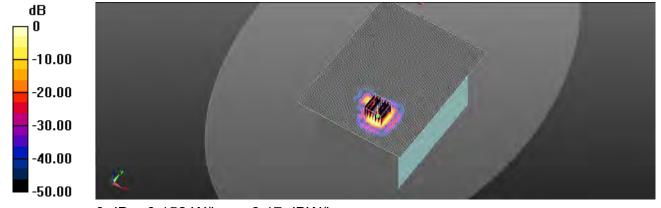
Peak SAR (extrapolated) = 0.286 W/kg

SAR(1 q) = 0.069 W/kq; SAR(10 q) = 0.018 W/kq

Smallest distance from peaks to all points 3 dB below = 6.4 mm

Ratio of SAR at M2 to SAR at M1 = 50.9%

Maximum value of SAR (measured) = 0.152 W/kg



0 dB = 0.152 W/kg = -8.17 dBW/kg

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Date: 2022/11/6

ID: 004

Report No.: TESA2210000394EN

WLAN 802.11ac(80M) 5.3G Body Front Surface CH 58 0mm Ant1

Communication System: WLAN; Frequency: 5290 MHz; Duty Cycle: 1:1.052

Medium parameters used: f = 5290 MHz; $\sigma = 4.809 \text{ S/m}$; $\varepsilon_r = 35.409$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 22.3°C

DASY5 Configuration:

Probe: EX3DV4 - SN7642; ConvF(5.69, 5.69, 5.69); Calibrated: 2022/03/02

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1665; Calibrated: 2022/02/28

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (151x191x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.165 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 0.8560 V/m; Power Drift = 0.17 dB

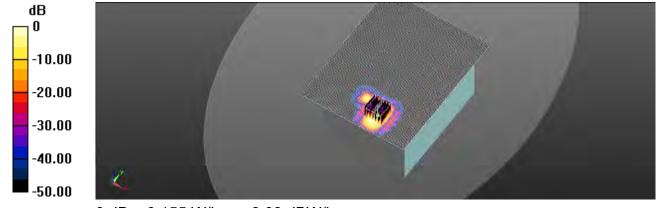
Peak SAR (extrapolated) = 0.293 W/kg

SAR(1 q) = 0.072 W/kq; SAR(10 q) = 0.019 W/kq

Smallest distance from peaks to all points 3 dB below = 7.4 mm

Ratio of SAR at M2 to SAR at M1 = 51.9%

Maximum value of SAR (measured) = 0.155 W/kg



0 dB = 0.155 W/kq = -8.09 dBW/kq

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Date: 2022/11/6

ID: 005

Report No.: TESA2210000394EN

WLAN 802.11ac(80M) 5.8G Body Front Surface CH 155 0mm Ant1

Communication System: WLAN; Frequency: 5775 MHz; Duty Cycle: 1:1.052

Medium parameters used: f = 5775 MHz; $\sigma = 5.328 \text{ S/m}$; $\varepsilon_r = 34.395$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 22.3°C

DASY5 Configuration:

Probe: EX3DV4 - SN7642; ConvF(5.15, 5.15, 5.15); Calibrated: 2022/03/02

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1665; Calibrated: 2022/02/28

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (151x191x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.927 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 0.8460 V/m; Power Drift = 0.14 dB

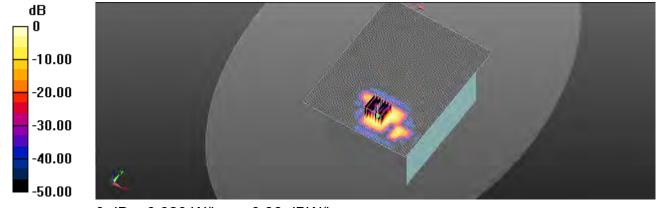
Peak SAR (extrapolated) = 1.81 W/kg

SAR(1 q) = 0.395 W/kq; SAR(10 q) = 0.107 W/kq

Smallest distance from peaks to all points 3 dB below = 7.2 mm

Ratio of SAR at M2 to SAR at M1 = 50.5%

Maximum value of SAR (measured) = 0.820 W/kg



0 dB = 0.820 W/kg = -0.86 dBW/kg

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11 SAR SYSTEM CHECK RESULTS

Date: 2022/11/6

Report No.: TESA2210000394EN

Dipole 2450 MHz SN:727

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium parameters used: f = 2450 MHz; $\sigma = 1.849 \text{ S/m}$; $\varepsilon_r = 39.785$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.4°C

DASY5 Configuration:

Probe: EX3DV4 - SN7642; ConvF(8.12, 8.12, 8.12); Calibrated: 2022/03/02

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1665; Calibrated: 2022/02/28

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x61x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 20.3 W/kg

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

Reference Value = 97.27 V/m: Power Drift = 0.03 dB

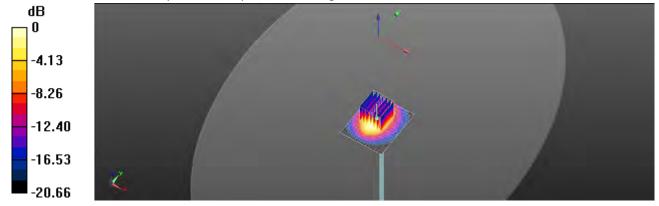
Peak SAR (extrapolated) = 25.5 W/kg

SAR(1 g) = 12.7 W/kg; SAR(10 g) = 6.19 W/kg

Smallest distance from peaks to all points 3 dB below = 10 mm

Ratio of SAR at M2 to SAR at M1 = 49.5%

Maximum value of SAR (measured) = 19.1 W/kg



0 dB = 19.1 W/kg = 12.81 dBW/kg

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Date: 2022/11/6

Report No.: TESA2210000394EN Dipole 5250 MHz_SN:1023

Communication System: CW; Frequency: 5250 MHz; Duty Cycle: 1:1

Medium parameters used: f = 5250 MHz; $\sigma = 4.714 \text{ S/m}$; $\varepsilon_r = 35.557$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 22.3°C

DASY5 Configuration:

Probe: EX3DV4 - SN7642; ConvF(5.69, 5.69, 5.69); Calibrated: 2022/03/02

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1665; Calibrated: 2022/02/28

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x91x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 16.9 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 46.52 V/m; Power Drift = 0.10 dB

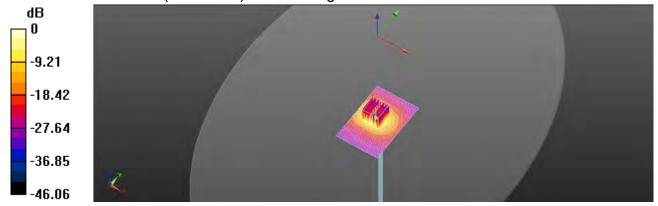
Peak SAR (extrapolated) = 32.8 W/kg

SAR(1 g) = 8.21 W/kg; SAR(10 g) = 2.33 W/kg

Smallest distance from peaks to all points 3 dB below = 7.2 mm

Ratio of SAR at M2 to SAR at M1 = 55.8%

Maximum value of SAR (measured) = 17.0 W/kg



0 dB = 17.0 W/kg = 12.31 dBW/kg

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Date: 2022/11/6

Report No.: TESA2210000394EN Dipole 5750 MHz_SN:1023

Communication System: CW; Frequency: 5750 MHz; Duty Cycle: 1:1

Medium parameters used: f = 5750 MHz; $\sigma = 5.344 \text{ S/m}$; $\varepsilon_r = 34.390$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 22.3°C

DASY5 Configuration:

Probe: EX3DV4 - SN7642; ConvF(5.15, 5.15, 5.15); Calibrated: 2022/03/02

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1665; Calibrated: 2022/02/28

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x91x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 17.8 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 53.20 V/m; Power Drift = 0.11 dB

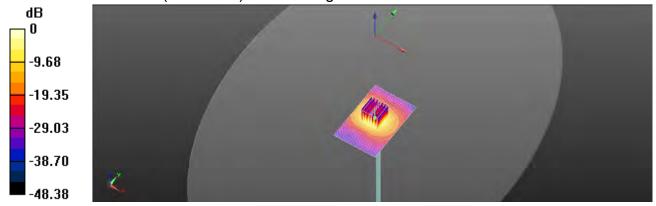
Peak SAR (extrapolated) = 37.6 W/kg

SAR(1 g) = 8.45 W/kg; SAR(10 g) = 2.37 W/kg

Smallest distance from peaks to all points 3 dB below = 7.5 mm

Ratio of SAR at M2 to SAR at M1 = 51.6%

Maximum value of SAR (measured) = 18.1 W/kg



0 dB = 18.1 W/kg = 12.58 dBW/kg

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Refer to separated files for the following appendixes.

- 12.1 SAR_Appendix A Photographs
- 12.2 SAR Appendix B DAE & Probe Cal. Certificate
- 12.3 SAR_Appendix C Phantom Description & Dipole Cal. Certificate

- End of report -

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