

FCC SAR Test Report

Plot No.	Band	Mode	Test Position	Separation Distance (cm)	Ch.	Sample	Ant	Duty Cycle %	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Duty Cycle Factor	Scaling Factor	Scaled SAR-1g (W/kg)
	WLAN5G	802.11a	Front Face	0	60	1	1	93.45	17	16.03	0.13	0.097	1.07	1.25	0.13
	WLAN5G	802.11a	Rear Face	0	60	1	1	93.45	17	16.03	-0.03	0.333	1.07	1.25	0.45
	WLAN5G	802.11a	Left Side	0	60	1	1	93.45	17	16.03	-0.18	0.477	1.07	1.25	0.64
	WLAN5G	802.11a	Top Side	0	60	1	1	93.45	17	16.03	0.02	0.103	1.07	1.25	0.14
	WLAN5G	802.11a	Left Side	0	60	1	1	93.45	17	16.03	0.06	0.631	1.07	1.25	0.84
	WLAN5G	802.11a	Left Side	0	52	1	1	93.45	17	15.84	0.16	0.561	1.07	1.31	0.78
	WLAN5G	802.11a	Left Side	0	56	1	1	93.45	17	15.92	0.13	0.636	1.07	1.28	0.87
12	WLAN5G	802.11a	Left Side	0	64	1	1	93.45	15.5	14.3	0.14	0.649	1.07	1.32	0.92
	WLAN5G	802.11a	Left Side	0	64	2	1	93.45	15.5	14.3	0.04	0.599	1.07	1.32	0.84
	WLAN5G	802.11a	Front Face	0	52	1	2	93.45	17	15.52	0.02	0.307	1.07	1.41	0.46
	WLAN5G	802.11a	Rear Face	0	52	1	2	93.45	17	15.52	0.03	0.504	1.07	1.41	0.76
	WLAN5G	802.11a	Right Side	0	52	1	2	93.45	17	15.52	0.08	0.510	1.07	1.41	0.77
	WLAN5G	802.11a	Top Side	0	52	1	2	93.45	17	15.52	0.17	0.265	1.07	1.41	0.40
	WLAN5G	802.11a	Right Side	0	56	1	2	93.45	17	15.48	0.04	0.460	1.07	1.42	0.70
	WLAN5G	802.11a	Right Side	0	60	1	2	93.45	17	15.41	0.09	0.472	1.07	1.44	0.73
	WLAN5G	802.11a	Right Side	0	64	1	2	93.45	17	15.31	-0.07	0.444	1.07	1.48	0.70
	WLAN5G	802.11a	Right Side	0	52	2	2	93.45	17	15.52	0.01	0.455	1.07	1.41	0.68
	WLAN5G	802.11ax20	Front Face	0	64	1	1+2	91.25	19	17.60	0.12	0.296	1.10	1.38	0.45
	WLAN5G	802.11ax20	Rear Face	0	64	1	1+2	91.25	19	17.60	0.04	0.479	1.10	1.38	0.73
	WLAN5G	802.11ax20	Left Side	0	64	1	1+2	91.25	19	17.60	0.09	0.216	1.10	1.38	0.33
	WLAN5G	802.11ax20	Right Side	0	64	1	1+2	91.25	19	17.60	0.01	0.527	1.10	1.38	0.80
	WLAN5G	802.11ax20	Top Side	0	64	1	1+2	91.25	19	17.60	-0.12	0.284	1.10	1.38	0.43
	WLAN5G	802.11ax20	Right Side	0	52	1	1+2	91.25	19	17.53	0.08	0.498	1.10	1.40	0.77
	WLAN5G	802.11ax20	Right Side	0	56	1	1+2	91.25	19	17.52	0.09	0.444	1.10	1.41	0.68
	WLAN5G	802.11ax20	Right Side	0	60	1	1+2	91.25	19	17.57	-0.03	0.470	1.10	1.39	0.72
	WLAN5G	802.11ax20	Right Side	0	64	2	1+2	91.25	19	17.60	0.07	0.498	1.10	1.38	0.75
	WLAN5G	802.11a	Front Face	0	144	1	1	93.45	17	16.48	0.13	0.062	1.07	1.13	0.07
	WLAN5G	802.11a	Rear Face	0	144	1	1	93.45	17	16.48	-0.11	0.237	1.07	1.13	0.29
	WLAN5G	802.11a	Left Side	0	144	1	1	93.45	17	16.48	0.12	0.289	1.07	1.13	0.35
	WLAN5G	802.11a	Top Side	0	144	1	1	93.45	17	16.48	0.17	0.065	1.07	1.13	0.08
	WLAN5G	802.11a	Left Side	0	144	1	1	93.45	17	16.48	0.03	0.298	1.07	1.13	0.36
13	WLAN5G	802.11a	Left Side	0	100	1	1	93.45	17	15.93	0.02	0.535	1.07	1.28	0.73
	WLAN5G	802.11a	Left Side	0	116	1	1	93.45	17	15.84	0.16	0.351	1.07	1.31	0.49
	WLAN5G	802.11a	Left Side	0	124	1	1	93.45	17	15.8	0.07	0.292	1.07	1.32	0.41
	WLAN5G	802.11a	Left Side	0	132	1	1	93.45	17	15.96	-0.13	0.244	1.07	1.27	0.33
	WLAN5G	802.11a	Left Side	0	140	1	1	93.45	17	15.81	0.15	0.209	1.07	1.32	0.29
	WLAN5G	802.11a	Left Side	0	100	2	1	93.45	17	15.93	0.07	0.505	1.07	1.28	0.69
	WLAN5G	802.11a	Front Face	0	100	1	2	93.45	16	14.88	0.11	0.382	1.07	1.29	0.53
	WLAN5G	802.11a	Rear Face	0	100	1	2	93.45	16	14.88	0.06	0.484	1.07	1.29	0.67
	WLAN5G	802.11a	Right Side	0	100	1	2	93.45	16	14.88	0.07	0.472	1.07	1.29	0.65
	WLAN5G	802.11a	Top Side	0	100	1	2	93.45	16	14.88	0.15	0.196	1.07	1.29	0.27
	WLAN5G	802.11a	Rear Face	0	100	1	2	93.45	16	14.88	0.17	0.492	1.07	1.29	0.68
	WLAN5G	802.11a	Rear Face	0	116	1	2	93.45	16	14.55	-0.04	0.475	1.07	1.40	0.71
	WLAN5G	802.11a	Rear Face	0	124	1	2	93.45	16	14.48	0.11	0.453	1.07	1.42	0.69
	WLAN5G	802.11a	Rear Face	0	132	1	2	93.45	16	14.62	0.06	0.444	1.07	1.37	0.65
	WLAN5G	802.11a	Rear Face	0	140	1	2	93.45	16	14.52	0.07	0.412	1.07	1.41	0.62
	WLAN5G	802.11a	Rear Face	0	144	1	2	93.45	16	14.48	-0.08	0.398	1.07	1.42	0.60
	WLAN5G	802.11a	Rear Face	0	116	2	2	93.45	16	14.55	0.09	0.471	1.07	1.40	0.70
	WLAN5G	802.11ax20	Front Face	0	100	1	1+2	91.25	17.5	16.86	0.16	0.340	1.10	1.16	0.43
	WLAN5G	802.11ax20	Rear Face	0	100	1	1+2	91.25	17.5	16.86	0.15	0.396	1.10	1.16	0.50
	WLAN5G	802.11ax20	Left Side	0	100	1	1+2	91.25	17.5	16.86	0.11	0.255	1.10	1.16	0.32
	WLAN5G	802.11ax20	Right Side	0	100	1	1+2	91.25	17.5	16.86	-0.17	0.398	1.10	1.16	0.51
	WLAN5G	802.11ax20	Top Side	0	100	1	1+2	91.25	17.5	16.86	0.07	0.189	1.10	1.16	0.24
	WLAN5G	802.11ax20	Rear Face	0	100	1	1+2	91.25	17.5	16.86	0.14	0.408	1.10	1.16	0.52
	WLAN5G	802.11ax20	Rear Face	0	116	1	1+2	91.25	17.5	16.66	0.09	0.373	1.10	1.21	0.50
	WLAN5G	802.11ax20	Rear Face	0	124	1	1+2	91.25	17.5	16.62	0.03	0.381	1.10	1.22	0.51

FCC SAR Test Report

Plot No.	Band	Mode	Test Position	Separation Distance (cm)	Ch.	Sample	Ant	Duty Cycle %	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Duty Cycle Factor	Scaling Factor	Scaled SAR-1g (W/kg)
	WLAN5G	802.11ax20	Rear Face	0	132	1	1+2	91.25	17.5	16.58	-0.01	0.383	1.10	1.24	0.52
	WLAN5G	802.11ax20	Rear Face	0	140	1	1+2	91.25	17.5	16.23	0.15	0.404	1.10	1.34	0.59
	WLAN5G	802.11ax20	Rear Face	0	144	1	1+2	91.25	17.5	16.16	0.01	0.361	1.10	1.36	0.54
	WLAN5G	802.11ax20	Rear Face	0	140	2	1+2	91.25	17.5	16.23	0.04	0.377	1.10	1.34	0.55
	WLAN5G	802.11a	Front Face	0	165	1	1	93.45	13	12.15	0.14	0.025	1.07	1.22	0.03
	WLAN5G	802.11a	Rear Face	0	165	1	1	93.45	13	12.15	-0.05	0.064	1.07	1.22	0.08
	WLAN5G	802.11a	Left Side	0	165	1	1	93.45	13	12.15	0.05	0.067	1.07	1.22	0.09
	WLAN5G	802.11a	Top Side	0	165	1	1	93.45	13	12.15	0.11	0.018	1.07	1.22	0.02
	WLAN5G	802.11a	Left Side	0	165	1	1	93.45	13	12.15	0.06	0.080	1.07	1.22	0.10
	WLAN5G	802.11a	Left Side	0	149	1	1	93.45	13	12.04	-0.1	0.069	1.07	1.25	0.09
	WLAN5G	802.11a	Left Side	0	157	1	1	93.45	13	11.7	0.05	0.058	1.07	1.35	0.08
	WLAN5G	802.11a	Left Side	0	165	2	1	93.45	13	12.15	0.01	0.075	1.07	1.22	0.10
	WLAN5G	802.11ax40	Front Face	0	151	1	2	93.22	15.5	15.08	0.01	0.361	1.07	1.10	0.43
	WLAN5G	802.11ax40	Rear Face	0	151	1	2	93.22	15.5	15.08	0.09	0.405	1.07	1.10	0.48
	WLAN5G	802.11ax40	Right Side	0	151	1	2	93.22	15.5	15.08	0.04	0.412	1.07	1.10	0.49
	WLAN5G	802.11ax40	Top Side	0	151	1	2	93.22	15.5	15.08	0.15	0.139	1.07	1.10	0.16
	WLAN5G	802.11ax40	Rear Face	0	151	1	2	93.22	15.5	15.08	-0.14	0.435	1.07	1.10	0.51
	WLAN5G	802.11ax40	Rear Face	0	159	1	2	93.22	15.5	14.79	0.16	0.391	1.07	1.18	0.49
	WLAN5G	802.11ax40	Rear Face	0	151	2	2	93.22	15.5	15.08	-0.07	0.398	1.07	1.10	0.47
	WLAN5G	802.11ax40	Front Face	0	151	1	1+2	93.98	17	16.46	0.14	0.396	1.06	1.13	0.48
	WLAN5G	802.11ax40	Rear Face	0	151	1	1+2	93.98	17	16.46	0.05	0.415	1.06	1.13	0.50
	WLAN5G	802.11ax40	Left Side	0	151	1	1+2	93.98	17	16.46	0.09	0.087	1.06	1.13	0.10
	WLAN5G	802.11ax40	Right Side	0	151	1	1+2	93.98	17	16.46	0.13	0.402	1.06	1.13	0.48
	WLAN5G	802.11ax40	Top Side	0	151	1	1+2	93.98	17	16.46	0.18	0.147	1.06	1.13	0.18
14	WLAN5G	802.11ax40	Rear Face	0	151	1	1+2	93.98	17	16.46	-0.18	0.433	1.06	1.13	0.52
	WLAN5G	802.11ax40	Rear Face	0	159	1	1+2	93.98	17	16.22	0.06	0.402	1.06	1.20	0.51
	WLAN5G	802.11ax40	Rear Face	0	151	2	1+2	93.98	17	16.46	0.07	0.412	1.06	1.13	0.50
	BT	GFSK	Front Face	0	78	1	-	76.8	6	4.13	0	0.008	1.30	1.54	0.02
	BT	GFSK	Rear Face	0	78	1	-	76.8	6	4.13	0.07	0.002	1.30	1.54	0.00
15	BT	GFSK	Left Side	0	78	1	-	76.8	6	4.13	-0.02	0.016	1.30	1.54	0.03
	BT	GFSK	Top Side	0	78	1	-	76.8	6	4.13	-0.01	0.001	1.30	1.54	0.00
	BT	GFSK	Left Side	0	0	1	-	76.8	4	2.71	-0.03	0.010	1.30	1.35	0.02
	BT	GFSK	Left Side	0	39	1	-	76.8	4	2.02	-0.02	0.010	1.30	1.58	0.02
	BT	GFSK	Left Side	0	78	2	-	76.8	6	4.13	0.07	0.014	1.30	1.54	0.03

FCC SAR Test Report

4.6.5 SAR Measurement Variability

According to KDB 865664 D01, SAR measurement variability was assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. When both head and body tissue-equivalent media are required for SAR measurements in a frequency band, the variability measurement procedures should be applied to the tissue medium with the highest measured SAR, using the highest measured SAR configuration for that tissue-equivalent medium. Alternatively, if the highest measured SAR for both head and body tissue-equivalent media are ≤ 1.45 W/kg and the ratio of these highest SAR values, i.e., largest divided by smallest value, is ≤ 1.10 , the highest SAR configuration for either head or body tissue-equivalent medium may be used to perform the repeated measurement. 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.

SAR repeated measurement procedure:

1. When the highest measured SAR is < 0.80 W/kg, repeated measurement is not required.
2. When the highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.
3. 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, perform a second repeated measurement.
4. If the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 , and the original, first or second repeated measurement is ≥ 1.5 W/kg, perform a third repeated measurement.

Band	Test Position	Ch.	Original Measured SAR-1g (W/kg)	1st Repeated SAR-1g (W/kg)	L/S Ratio	2nd Repeated SAR-1g (W/kg)	L/S Ratio	3rd Repeated SAR-1g (W/kg)	L/S Ratio
WLAN2.4G	Left Cheek	6	1.17	1.14	1.03	N/A	N/A	N/A	N/A
WLAN5G	Left Cheek	151	1.07	1.04	1.03	N/A	N/A	N/A	N/A

FCC SAR Test Report

4.6.6 Simultaneous Multi-band Transmission Evaluation

<Simultaneous transmission possibilities>

The simultaneous transmission possibilities for this device are listed as below.

Simultaneous TX Combination	Capable Transmit Configurations	Head / Body-worn / Extremity
1	WLAN 5G(Data) + BT(Data)	Yes

Note :

1. The 2.4G WLAN and 5G WLAN cannot transmit simultaneously.
1. The 2.4G WLAN and BT cannot transmit simultaneously.

<SAR Summation Analysis>

Simultaneous transmission SAR test exclusion is determined for each operating configuration and exposure condition according to the reported standalone SAR of each applicable simultaneous transmitting antenna. When the sum of SAR_{1g} of all simultaneously transmitting antennas in an operating mode and exposure condition combination is within the SAR limit (SAR_{1g} 1.6 W/kg), the simultaneous transmission SAR is not required. When the sum of SAR_{1g} is greater than the SAR limit (SAR_{1g} 1.6 W/kg), SAR test exclusion is determined by the SPLSR.

No.	Conditions (SAR1 + SAR2)	Exposure Condition	Test Position	Max. SAR1	Max. SAR2	SAR Summation	SPLSR Analysis
1	WLAN (NII) + BT (DSS)	Head	Right Cheek	0.51	0.05	0.56	ΣSAR < 1.6, Not required
			Right Tilted	0.47	0.01	0.48	ΣSAR < 1.6, Not required
			Left Cheek	1.29	0.02	1.31	ΣSAR < 1.6, Not required
			Left Tilted	0.67	0.00	0.67	ΣSAR < 1.6, Not required
		Body-Worn	Front Face	0.40	0.02	0.42	ΣSAR < 1.6, Not required
			Rear Face	0.65	0.01	0.66	ΣSAR < 1.6, Not required
		Extremity	Front Face	0.53	0.02	0.55	ΣSAR < 4.0, Not required
			Rear Face	0.76	0.00	0.76	ΣSAR < 4.0, Not required
			Left Side	0.92	0.03	0.95	ΣSAR < 4.0, Not required
			Right Side	0.77	0.00	0.77	ΣSAR < 4.0, Not required
			Top Side	0.43	0.00	0.43	ΣSAR < 4.0, Not required

Test Engineer : Dennis Ye

5. Calibration of Test Equipment

Equipment	Manufacturer	Model	SN	Cal. Date	Cal. Interval
System Validation Dipole	SPEAG	D2450V2	893	Sep. 18, 2021	1 Year
System Validation Dipole	SPEAG	D5GHzV2	1133	Sep. 14, 2021	1 Year
Data Acquisition Electronics	SPEAG	DAE4	1389	Oct. 26, 2021	1 Year
Dosimetric E-Field Probe	SPEAG	EX3DV4	3873	Aug. 25, 2021	1 Year
ENA Series Network Analyzer	Agilent	E5071C	MY46214638	Jun. 03, 2021	1 Year
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510355	Jun. 03, 2021	1 Year
MXG Analog Signal Generator	KEYSIGHT	N5183A	MY50143024	Mar. 09, 2021	1 Year
Power Meter	Agilent	N1914A	MY52180044	Mar. 02, 2021	1 Year
Power Sensor	Agilent	E9304A H18	MY52050011	Feb. 25, 2021	1 Year
Power Meter	ANRITSU	ML2495A	1506002	Apr. 07, 2021	1 Year
Power Sensor	ANRITSU	MA2411B	1339353	May. 07, 2021	1 Year
Temp. & Humi. Recorder	CLOCK	HTC-1	157248	Jun. 02, 2021	1 Year
Electronic Thermometer	YONGFA	YF-160A	120100323	Jun. 02, 2021	1 Year
Coupler	Woken	0110A056020-10	COM27RW1A3	Jun. 02, 2021	1 Year

6. Measurement Uncertainty

DASY5 Uncertainty Budget								
Error Description	Uncertainty Value (±%)	Probability	Divisor	(Ci) 1g	(Ci) 10g	Standard Uncertainty (1g) (±%)	Standard Uncertainty (10g) (±%)	(Vi) Veff
Measurement System								
Probe Calibration	6.0	N	1	1	1	6.0	6.0	∞
Axial Isotropy	4.7	R	1.732	0.7	0.7	1.9	1.9	∞
Hemispherical Isotropy	9.6	R	1.732	0.7	0.7	3.9	3.9	∞
Boundary Effects	1.0	R	1.732	1	1	0.6	0.6	∞
Linearity	4.7	R	1.732	1	1	2.7	2.7	∞
System Detection Limits	1.0	R	1.732	1	1	0.6	0.6	∞
Modulation Response	3.2	R	1.732	1	1	1.8	1.8	∞
Readout Electronics	0.3	N	1	1	1	0.3	0.3	∞
Response Time	0.0	R	1.732	1	1	0.0	0.0	∞
Integration Time	2.6	R	1.732	1	1	1.5	1.5	∞
RF Ambient Noise	3.0	R	1.732	1	1	1.7	1.7	∞
RF Ambient Reflections	3.0	R	1.732	1	1	1.7	1.7	∞
Probe Positioner	0.4	R	1.732	1	1	0.2	0.2	∞
Probe Positioning	2.9	R	1.732	1	1	1.7	1.7	∞
Max. SAR Eval.	2.0	R	1.732	1	1	1.2	1.2	∞
Test Sample Related								
Device Positioning	3.0	N	1	1	1	3.0	3.0	35
Device Holder	3.6	N	1	1	1	3.6	3.6	12
Power Drift	5.0	R	1.732	1	1	2.9	2.9	∞
Power Scaling	0.0	R	1.732	1	1	0.0	0.0	∞
Phantom and Setup								
Phantom Uncertainty	6.1	R	1.732	1	1	3.5	3.5	∞
SAR correction	0.0	R	1.732	1	0.84	0.0	0.0	∞
Liquid Conductivity Repeatability	0.2	N	1	0.78	0.71	0.1	0.1	5
Liquid Conductivity (target)	5.0	R	1.732	0.78	0.71	2.3	2.0	∞
Liquid Conductivity (mea.)	2.5	R	1.732	0.78	0.71	1.1	1.0	∞
Temp. unc. - Conductivity	3.4	R	1.732	0.78	0.71	1.5	1.4	∞
Liquid Permittivity Repeatability	0.15	N	1	0.23	0.26	0.0	0.0	5
Liquid Permittivity (target)	5.0	R	1.732	0.23	0.26	0.7	0.8	∞
Liquid Permittivity (mea.)	2.5	R	1.732	0.23	0.26	0.3	0.4	∞
Temp. unc. - Permittivity	0.83	R	1.732	0.23	0.26	0.1	0.1	∞
Combined Std. Uncertainty						11.4%	11.4%	1013
Coverage Factor for 95 %						K=2	K=2	
Expanded STD Uncertainty						22.9%	22.7%	

Uncertainty budget for frequency range 30 MHz to 3 GHz

FCC SAR Test Report

DASY5 Uncertainty Budget								
Error Description	Uncertainty Value (±%)	Probability	Divisor	(Ci) 1g	(Ci) 10g	Standard Uncertainty (1g) (±%)	Standard Uncertainty (10g) (±%)	(Vi) Veff
Measurement System								
Probe Calibration	6.55	N	1	1	1	6.5	6.5	∞
Axial Isotropy	4.7	R	1.732	0.7	0.7	1.9	1.9	∞
Hemispherical Isotropy	9.6	R	1.732	0.7	0.7	3.9	3.9	∞
Boundary Effects	2.0	R	1.732	1	1	1.2	1.2	∞
Linearity	4.7	R	1.732	1	1	2.7	2.7	∞
System Detection Limits	1.0	R	1.732	1	1	0.6	0.6	∞
Modulation Response	3.2	R	1.732	1	1	1.8	1.8	∞
Readout Electronics	0.3	N	1	1	1	0.3	0.3	∞
Response Time	0.0	R	1.732	1	1	0.0	0.0	∞
Integration Time	2.6	R	1.732	1	1	1.5	1.5	∞
RF Ambient Noise	3.0	R	1.732	1	1	1.7	1.7	∞
RF Ambient Reflections	3.0	R	1.732	1	1	1.7	1.7	∞
Probe Positioner	0.4	R	1.732	1	1	0.2	0.2	∞
Probe Positioning	6.7	R	1.732	1	1	3.9	3.9	∞
Max. SAR Eval.	4.0	R	1.732	1	1	2.3	2.3	∞
Test Sample Related								
Device Positioning	3.0	N	1	1	1	3.0	3.0	35
Device Holder	3.6	N	1	1	1	3.6	3.6	12
Power Drift	5.0	R	1.732	1	1	2.9	2.9	∞
Power Scaling	0.0	R	1.732	1	1	0.0	0.0	∞
Phantom and Setup								
Phantom Uncertainty	6.6	R	1.732	1	1	3.8	3.8	∞
SAR correction	0.0	R	1.732	1	0.84	0.0	0.0	∞
Liquid Conductivity Repeatability	0.2	N	1	0.78	0.71	0.1	0.1	5
Liquid Conductivity (target)	5.0	R	1.732	0.78	0.71	2.3	2.0	∞
Liquid Conductivity (mea.)	2.5	R	1.732	0.78	0.71	1.1	1.0	∞
Temp. unc. - Conductivity	3.4	R	1.732	0.78	0.71	1.5	1.4	∞
Liquid Permittivity Repeatability	0.15	N	1	0.23	0.26	0.0	0.0	5
Liquid Permittivity (target)	5.0	R	1.732	0.23	0.26	0.7	0.8	∞
Liquid Permittivity (mea.)	2.5	R	1.732	0.23	0.26	0.3	0.4	∞
Temp. unc. - Permittivity	0.83	R	1.732	0.23	0.26	0.1	0.1	∞
Combined Std. Uncertainty						12.5%	12.5%	1458
Coverage Factor for 95 %						K=2	K=2	
Expanded STD Uncertainty						25.0%	24.9%	

Uncertainty budget for frequency range 3 GHz to 6 GHz

7. Information on the Testing Laboratories

We, BV 7LAYERS COMMUNICATIONS TECHNOLOGY (SHENZHEN) CO. LTD., were founded in 2015 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

Add: No. B102, Dazu Chuangxin Mansion, North of Beihuan Avenue, North Area, Hi-Tech Industry Park, Nanshan District, Shenzhen, Guangdong, China

Tel: 86-755-8869-6566

Fax: 86-755-8869-6577

Email: customerservice.sw@cn.bureauveritas.com

Web Site: www.bureauveritas.com

The road map of all our labs can be found in our web site also.

---END---

Appendix A. SAR Plots of System Verification

The plots for system verification with largest deviation for each SAR system combination are shown as follows.

System Check_HSL2450_211124**DUT: Dipole:2450 MHz;Type:D2450V2**

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

Medium: HSL2450_1124 Medium parameters used: $f = 2450$ MHz; $\sigma = 1.766$ S/m; $\epsilon_r = 39.265$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4°C; Liquid Temperature : 22.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(7.88, 7.88, 7.88) @ 2450 MHz; Calibrated: 8/25/2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 10/26/2021
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=250mW/Area Scan (81x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 23.3 W/kg

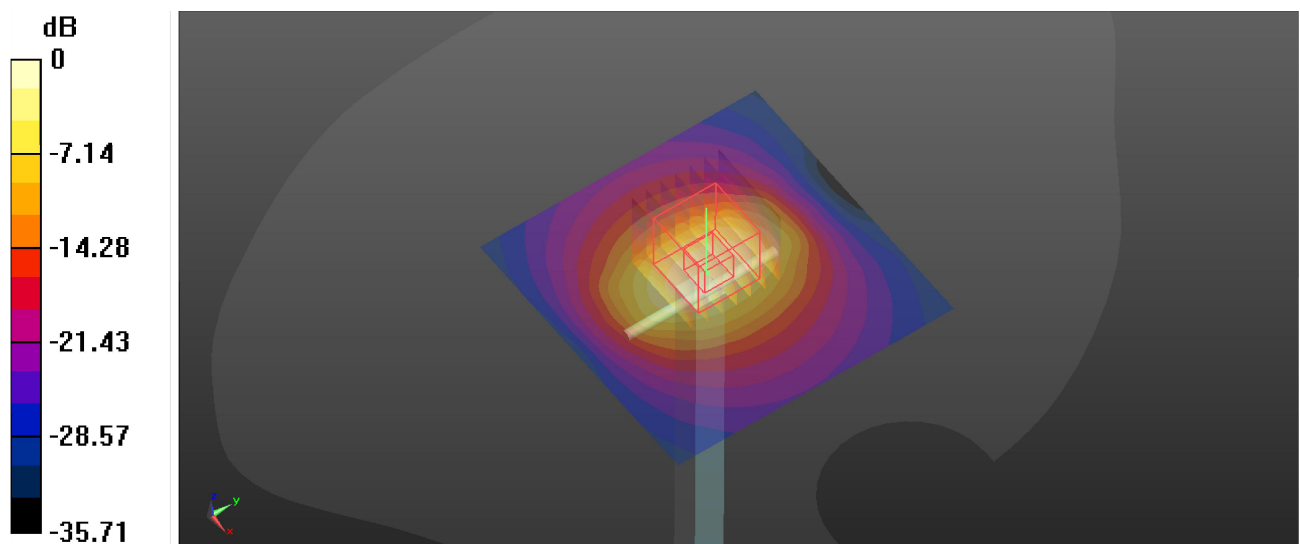
Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 111.6 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 29.1 W/kg

SAR(1 g) = 14.2 W/kg; SAR(10 g) = 6.58 W/kg

Maximum value of SAR (measured) = 23.7 W/kg



0 dB = 23.7 W/kg

System Check_HSL5250_211122**DUT: Dipole 5GHzV2;Type:D5GHzV2**

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

Medium: H5G_1122 Medium parameters used: $f = 5250$ MHz; $\sigma = 4.735$ S/m; $\epsilon_r = 36.296$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5°C; Liquid Temperature : 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(4.8, 4.8, 4.8) @ 5250 MHz; Calibrated: 8/25/2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 10/26/2021
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=100mW/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 19.4 W/kg

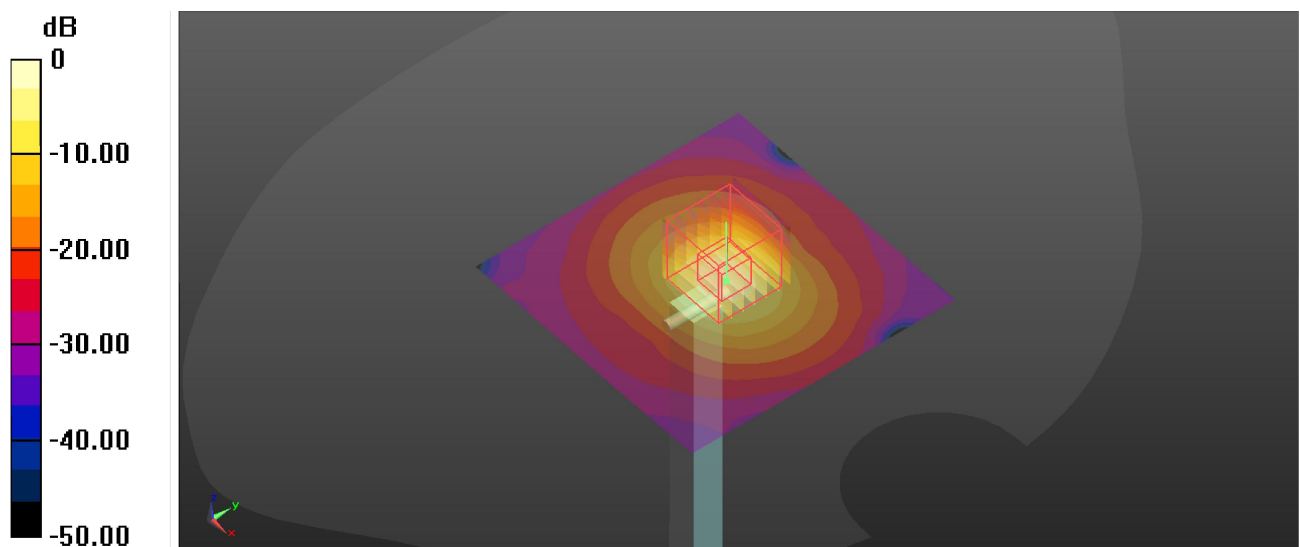
Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 63.18 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 32.9 W/kg

SAR(1 g) = 8.35 W/kg; SAR(10 g) = 2.42 W/kg

Maximum value of SAR (measured) = 20.9 W/kg



0 dB = 20.9 W/kg

System Check_HSL5600_211122**DUT: Dipole 5GHzV2;Type:D5GHzV2**

Communication System: CW; Frequency: 5600 MHz; Duty Cycle: 1:1

Medium: H5G_1122 Medium parameters used: $f = 5600$ MHz; $\sigma = 5.093$ S/m; $\epsilon_r = 35.786$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5°C; Liquid Temperature : 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(4.5, 4.5, 4.5) @ 5600 MHz; Calibrated: 8/25/2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 10/26/2021
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=100mW/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 21.3 W/kg

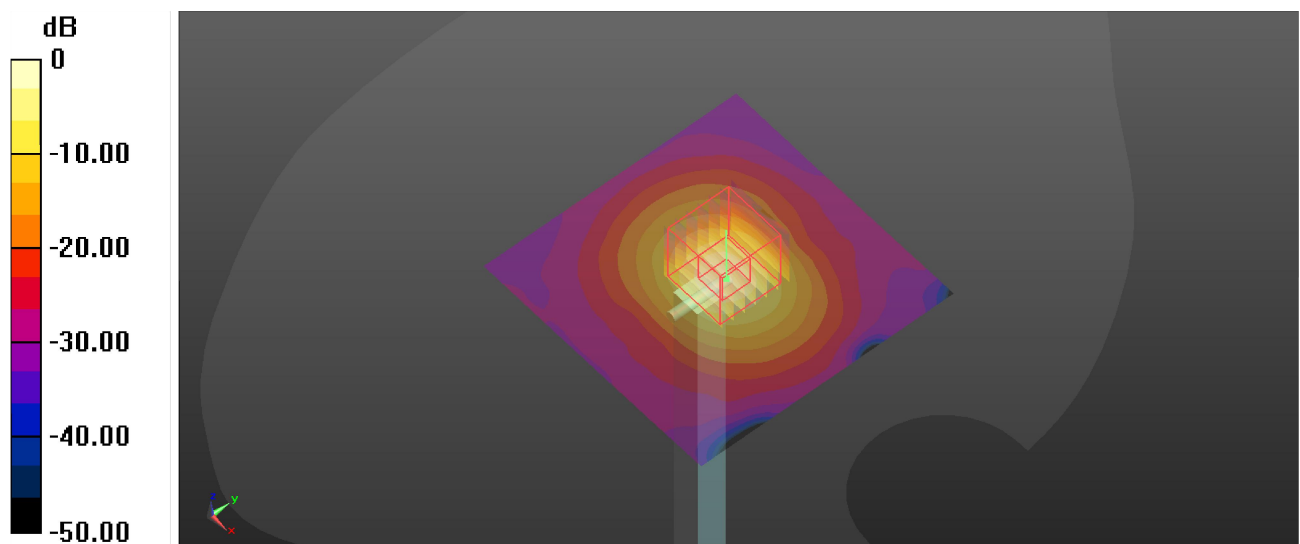
Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 64.02 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 38.8 W/kg

SAR(1 g) = 8.82 W/kg; SAR(10 g) = 2.54 W/kg

Maximum value of SAR (measured) = 23.2 W/kg



0 dB = 23.2 W/kg

System Check_HSL5800_211123**DUT: Dipole 5GHzV2;Type:D5GHzV2**

Communication System: CW; Frequency: 5800 MHz; Duty Cycle: 1:1

Medium: H5G_1123 Medium parameters used: $f = 5800$ MHz; $\sigma = 5.305$ S/m; $\epsilon_r = 35.499$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4°C; Liquid Temperature : 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(4.49, 4.49, 4.49) @ 5800 MHz; Calibrated: 8/25/2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 10/26/2021
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=100mW/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

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

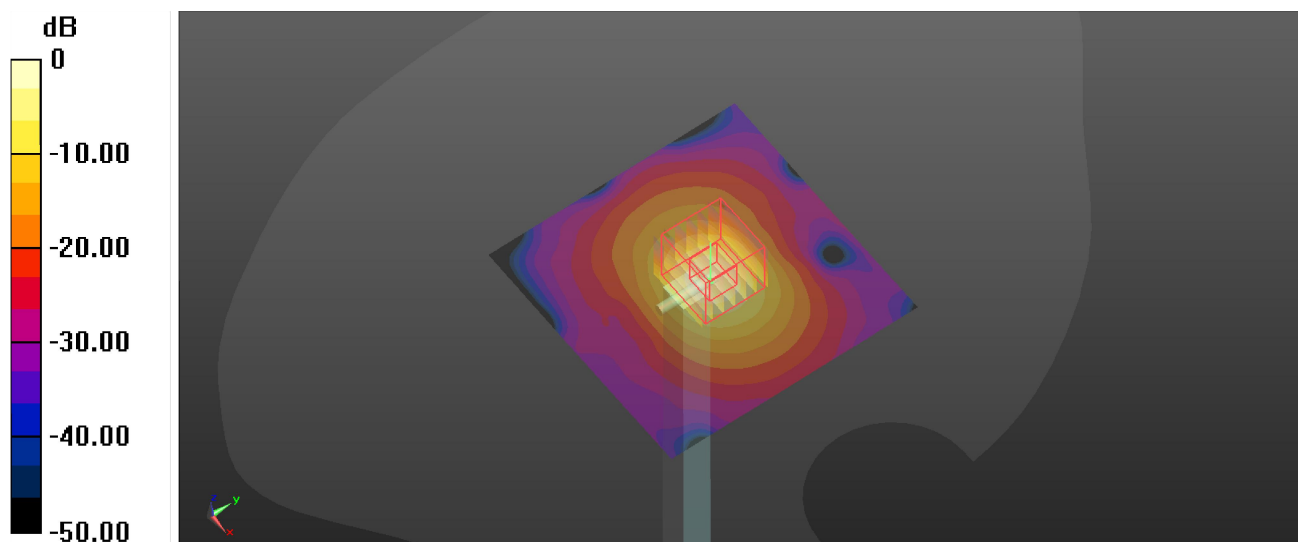
Pin=100mW/Zoom Scan (7x7x11)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 60.04 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 37.7 W/kg

SAR(1 g) = 8.29 W/kg; SAR(10 g) = 2.33 W/kg

Maximum value of SAR (measured) = 21.9 W/kg



0 dB = 21.9 W/kg

Appendix B. SAR Plots of SAR Measurement

The SAR plots for highest measured SAR in each exposure configuration, wireless mode and frequency band combination, and measured SAR > 1.5 W/kg are shown as follows.

P01 WLAN2.4G_802.11b_Left Cheek_Ch6_Ant2

Communication System: 802.11b; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: HSL2450_1124 Medium parameters used: $f = 2437$ MHz; $\sigma = 1.751$ S/m; $\epsilon_r = 39.315$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4°C; Liquid Temperature : 22.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(7.88, 7.88, 7.88) @ 2437 MHz; Calibrated: 8/25/2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 10/26/2021
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (91x161x1)**: Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 1.95 W/kg

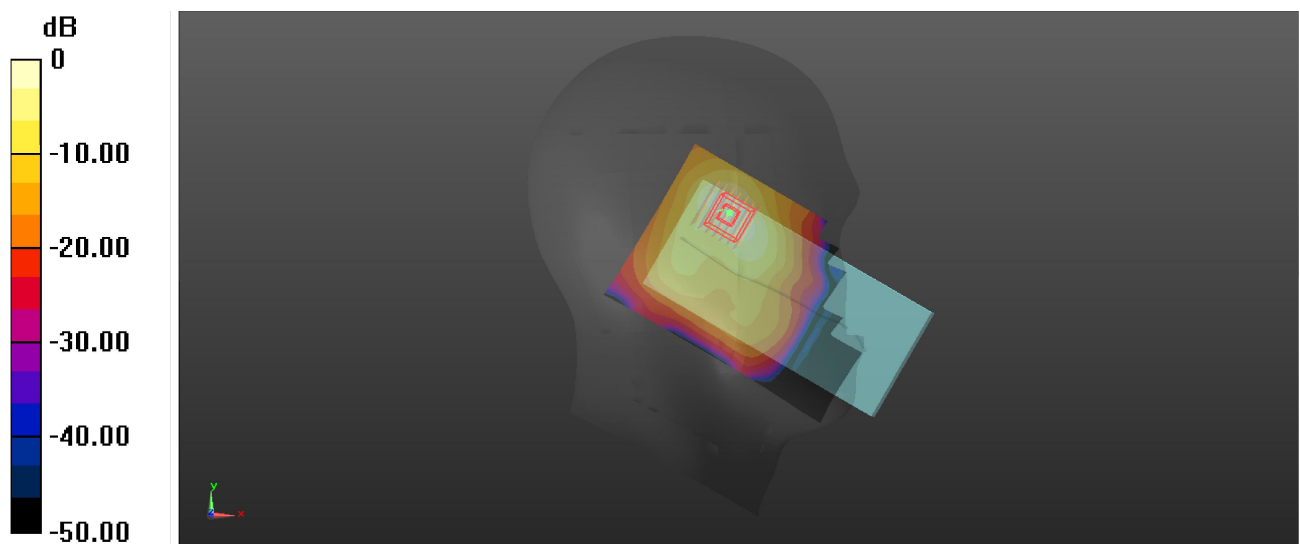
- **Zoom Scan (7x7x7)/Cube 0**: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 11.44 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 2.46 W/kg

SAR(1 g) = 1.17 W/kg; SAR(10 g) = 0.543 W/kg

Maximum value of SAR (measured) = 1.93 W/kg



0 dB = 1.93 W/kg

P02 WLAN5G_802.11ax20_Left Cheek_Ch64_Ant1+2

Communication System: 802.11ax20; Frequency: 5320 MHz; Duty Cycle: 1:1.1

Medium: HSL5G_1122 Medium parameters used: $f = 5320$ MHz; $\sigma = 4.805$ S/m; $\epsilon_r = 36.21$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5°C; Liquid Temperature : 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(4.8, 4.8, 4.8) @ 5320MHz; Calibrated: 8/25/2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 10/26/2021
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (91x191x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.86 W/kg

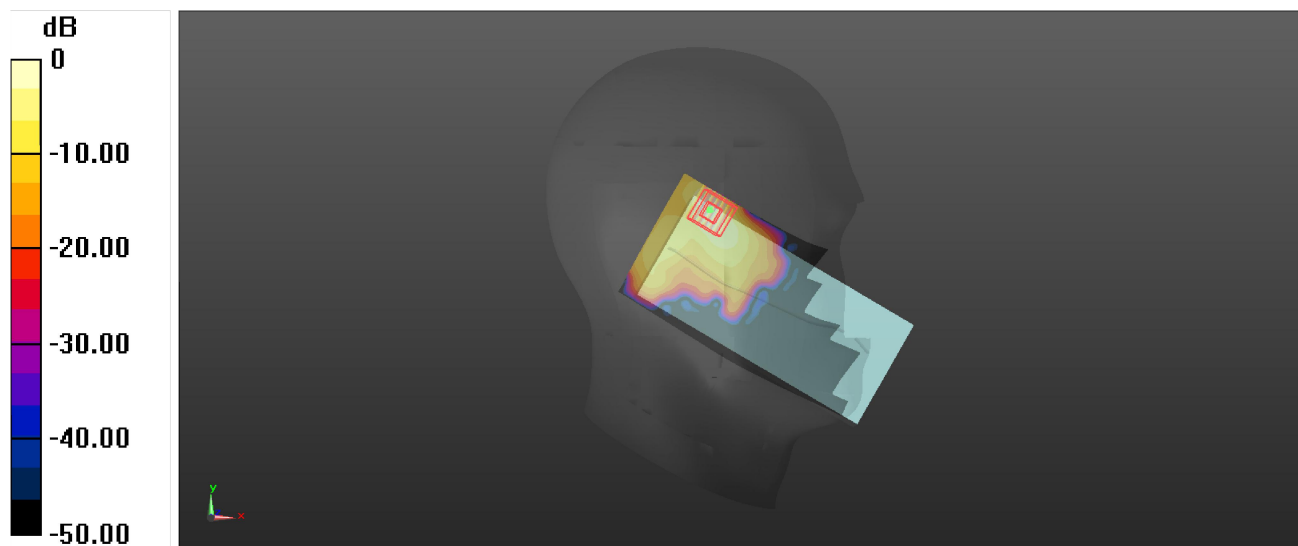
- **Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 6.384 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 3.28 W/kg

SAR(1 g) = 0.770 W/kg; SAR(10 g) = 0.233 W/kg

Maximum value of SAR (measured) = 1.88 W/kg



0 dB = 1.88 W/kg

P03 WLAN5G_802.11ax20_Left Cheek_Ch140_Ant1+2

Communication System: 802.11ax80; Frequency: 5700 MHz; Duty Cycle: 1:1.1

Medium: HSL5G_1122 Medium parameters used: $f = 5700$ MHz; $\sigma = 5.2$ S/m; $\epsilon_r = 35.64$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5°C; Liquid Temperature : 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(4.5, 4.5, 4.5) @ 5700 MHz; Calibrated: 8/25/2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 10/26/2021
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (91x191x1)**: Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Maximum value of SAR (interpolated) = 2.01 W/kg

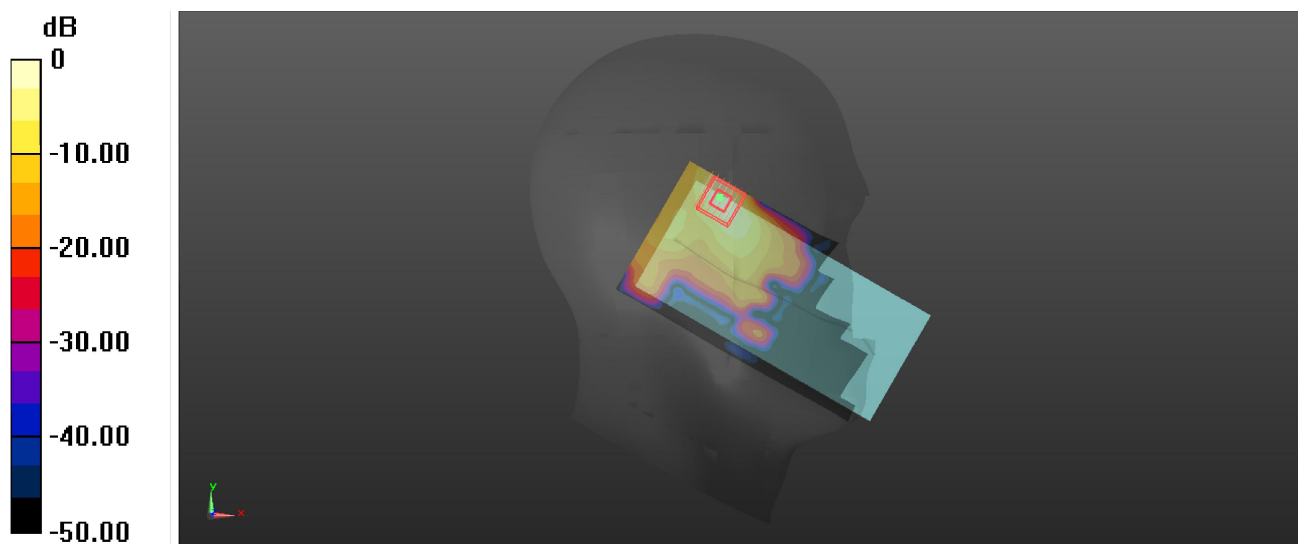
- **Zoom Scan (7x7x12)/Cube 0**: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 4.079 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 3.28 W/kg

SAR(1 g) = 0.760 W/kg; SAR(10 g) = 0.240 W/kg

Maximum value of SAR (measured) = 1.92 W/kg



0 dB = 1.92 W/kg

P04 WLAN5G_802.11ax40_Left Cheek_Ch151_Ant1+2

Communication System: 802.11ax40; Frequency: 5755 MHz; Duty Cycle: 1:1.06

Medium: HSL5G_1123 Medium parameters used: $f = 5755$ MHz; $\sigma = 5.263$ S/m; $\epsilon_r = 35.571$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4°C; Liquid Temperature : 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(4.49, 4.49, 4.49) @ 5755 MHz; Calibrated: 8/25/2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 10/26/2021
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (91x191x1)**: Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Maximum value of SAR (interpolated) = 2.66 W/kg

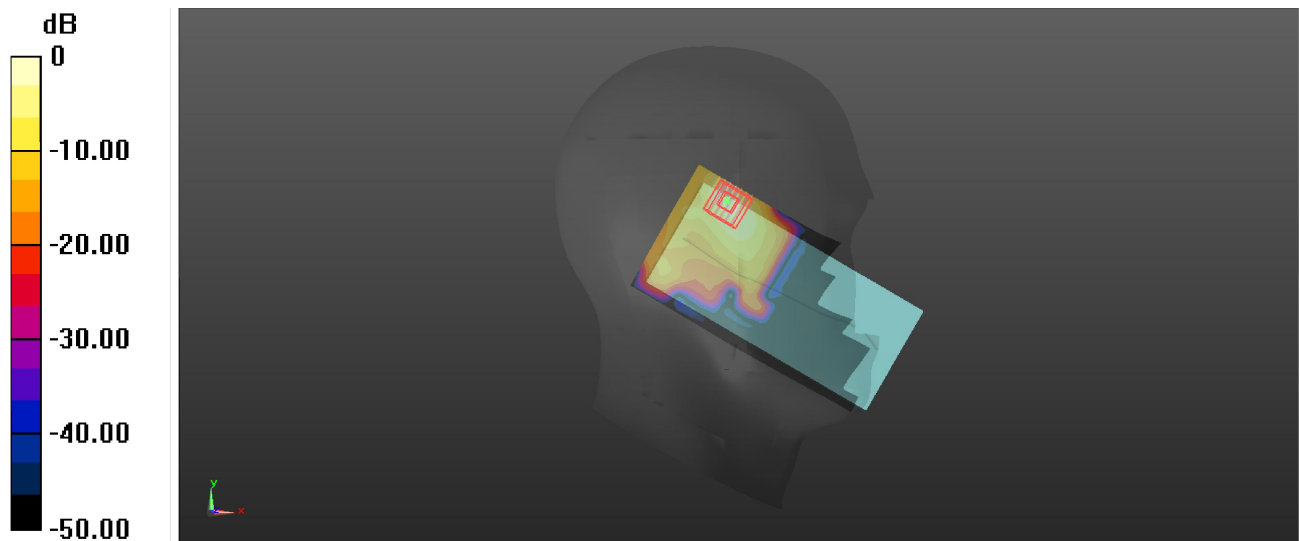
- **Zoom Scan (7x7x12)/Cube 0**: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 3.349 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 5.04 W/kg

SAR(1 g) = 1.07 W/kg; SAR(10 g) = 0.337 W/kg

Maximum value of SAR (measured) = 2.76 W/kg



0 dB = 2.76 W/kg

P05 BT_GFSK_Right Cheek_Ch78

Communication System: BT; Frequency: 2480 MHz; Duty Cycle: 1:1.3

Medium: HSL2450_1124 Medium parameters used: $f = 2480$ MHz; $\sigma = 1.797$ S/m; $\epsilon_r = 39.15$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4°C; Liquid Temperature : 22.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(7.88, 7.88, 7.88) @ 2480 MHz; Calibrated: 8/25/2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 10/26/2021
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- Area Scan (91x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.0602 W/kg

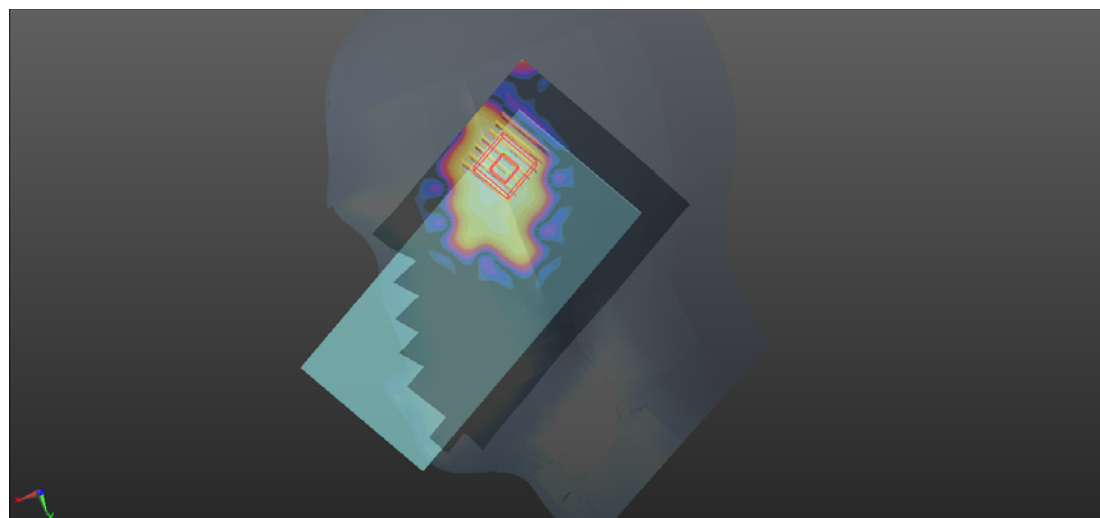
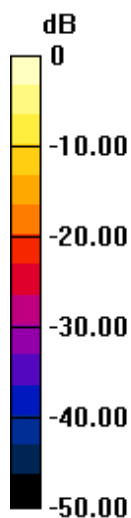
- Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 0.663 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.0830 W/kg

SAR(1 g) = 0.025 W/kg; SAR(10 g) = 0.00814 W/kg

Maximum value of SAR (measured) = 0.0398 W/kg



0 dB = 0.0398 W/kg

P06 WLAN2.4G_802.11b_Front Face_1cm_Ch6_Ant2

Communication System: 802.11b; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: HSL2450_1124 Medium parameters used: $f = 2437$ MHz; $\sigma = 1.751$ S/m; $\epsilon_r = 39.315$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4°C; Liquid Temperature : 22.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(7.88, 7.88, 7.88) @ 2437 MHz; Calibrated: 8/25/2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 10/26/2021
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (91x171x1)**: Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 0.393 W/kg

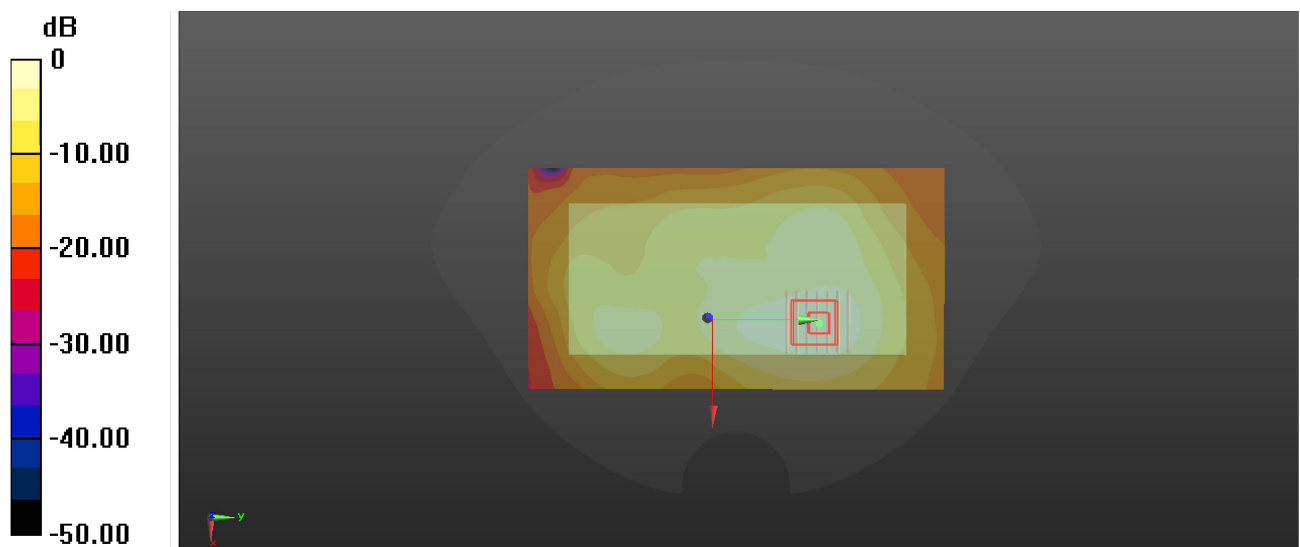
- **Zoom Scan (7x7x7)/Cube 0**: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 6.421 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.489 W/kg

SAR(1 g) = 0.250 W/kg; SAR(10 g) = 0.132 W/kg

Maximum value of SAR (measured) = 0.396 W/kg



0 dB = 0.396 W/kg

P07 WLAN5G_802.11ax20_Rear Face_1cm_Ch52_Ant1+2

Communication System: 802.11ax20; Frequency: 5260 MHz; Duty Cycle: 1:1.1

Medium: HSL5G_1122 Medium parameters used: $f = 5260$ MHz; $\sigma = 4.744$ S/m; $\epsilon_r = 36.68$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5°C; Liquid Temperature : 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(4.8, 4.8, 4.8) @ 5260 MHz; Calibrated: 8/25/2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 10/26/2021
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (91x191x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.989 W/kg

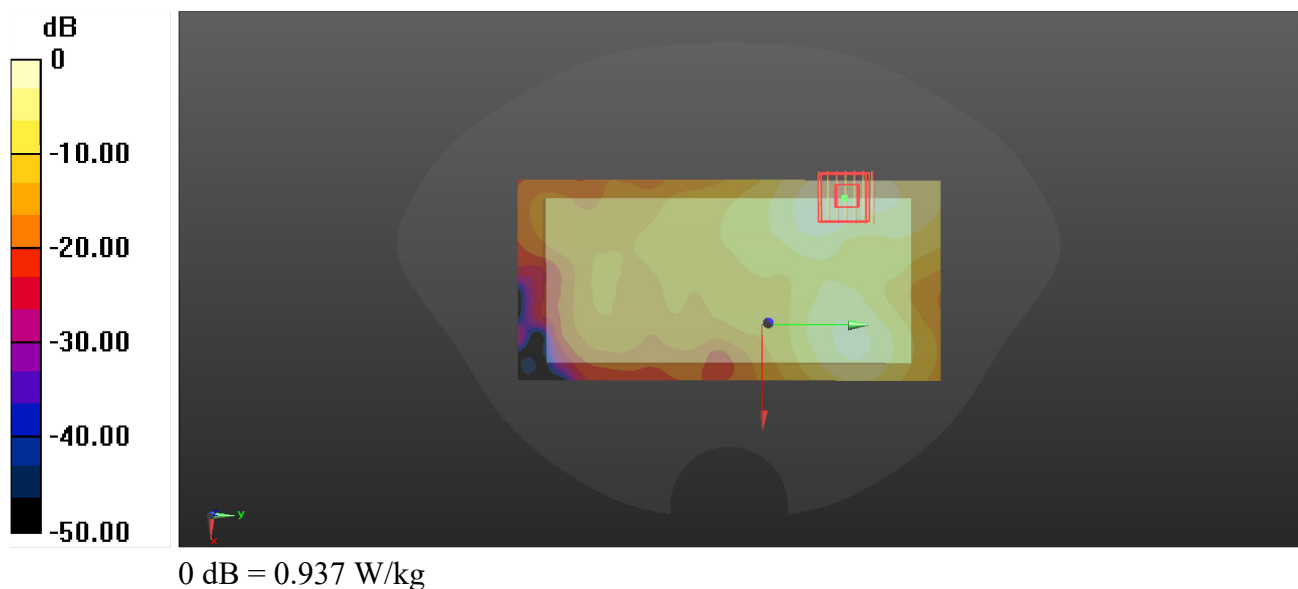
- **Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.588 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 1.59 W/kg

SAR(1 g) = 0.426 W/kg; SAR(10 g) = 0.170 W/kg

Maximum value of SAR (measured) = 0.937 W/kg



P08 WLAN5G_802.11a_Rear Face_1cm_Ch100_Ant1

Communication System: 802.11a; Frequency: 5500 MHz; Duty Cycle: 1:1.07

Medium: HSL5G_1122 Medium parameters used: $f = 5500$ MHz; $\sigma = 4.984$ S/m; $\epsilon_r = 35.933$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5°C; Liquid Temperature : 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(4.5, 4.5, 4.5) @ 5500 MHz; Calibrated: 8/25/2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 10/26/2021
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (91x191x1):** Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm
Maximum value of SAR (interpolated) = 0.981 W/kg

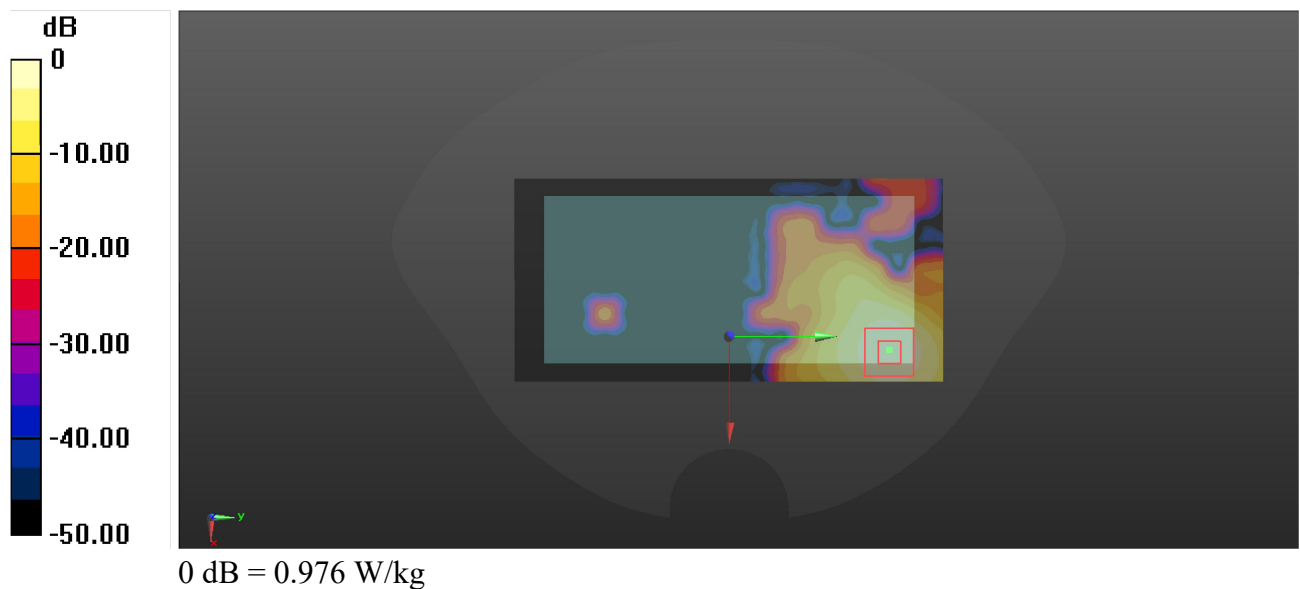
- **Zoom Scan (7x7x12)/Cube 0:** Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 1.736 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.66 W/kg

SAR(1 g) = 0.428 W/kg; SAR(10 g) = 0.164 W/kg

Maximum value of SAR (measured) = 0.976 W/kg



P09 WLAN5G_802.11ax40_Rear Face_1cm_Ch151_Ant2

Communication System: 802.11ax40; Frequency: 5755 MHz; Duty Cycle: 1:1.07

Medium: HSL5G_1123 Medium parameters used: $f = 5755$ MHz; $\sigma = 5.263$ S/m; $\epsilon_r = 35.571$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4°C; Liquid Temperature : 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(4.49, 4.49, 4.49) @ 5755 MHz; Calibrated: 8/25/2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 10/26/2021
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (91x191x1)**: Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Maximum value of SAR (interpolated) = 0.796 W/kg

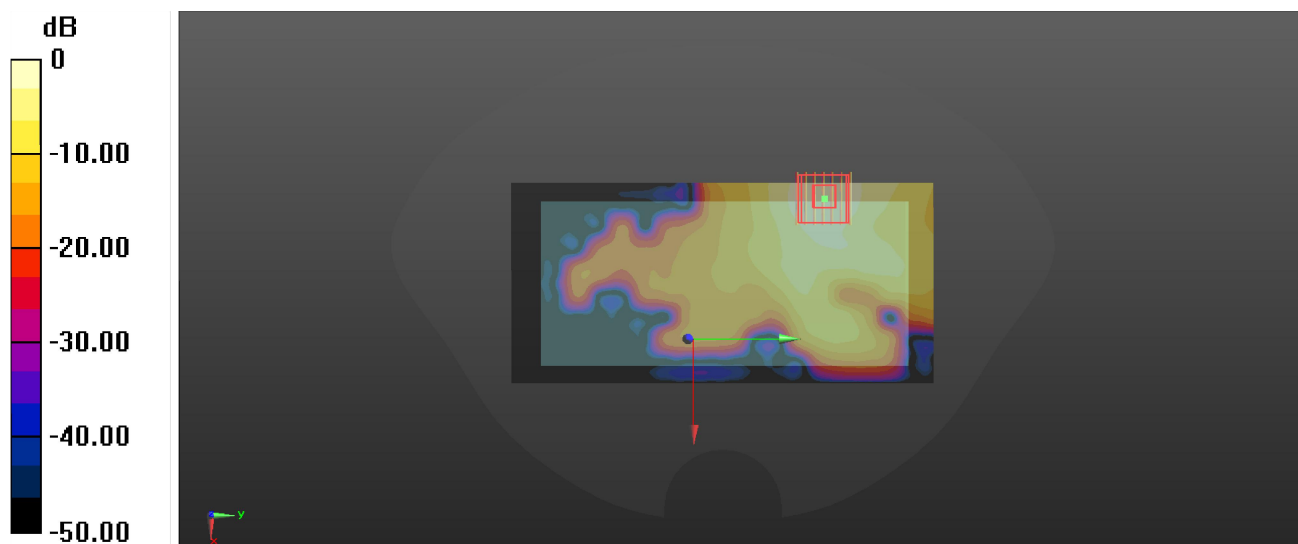
- **Zoom Scan (7x7x12)/Cube 0**: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 1.688 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 1.45 W/kg

SAR(1 g) = 0.350 W/kg; SAR(10 g) = 0.137 W/kg

Maximum value of SAR (measured) = 0.814 W/kg



0 dB = 0.814 W/kg

P10 BT_GFSK_Front Face_1cm_Ch78

Communication System: BT; Frequency: 2480 MHz; Duty Cycle: 1:1.3

Medium: HSL2450_1124 Medium parameters used: $f = 2480$ MHz; $\sigma = 1.797$ S/m; $\epsilon_r = 39.15$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4°C; Liquid Temperature : 22.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(7.88, 7.88, 7.88) @ 2480 MHz; Calibrated: 8/25/2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 10/26/2021
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (91x161x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.0262 W/kg

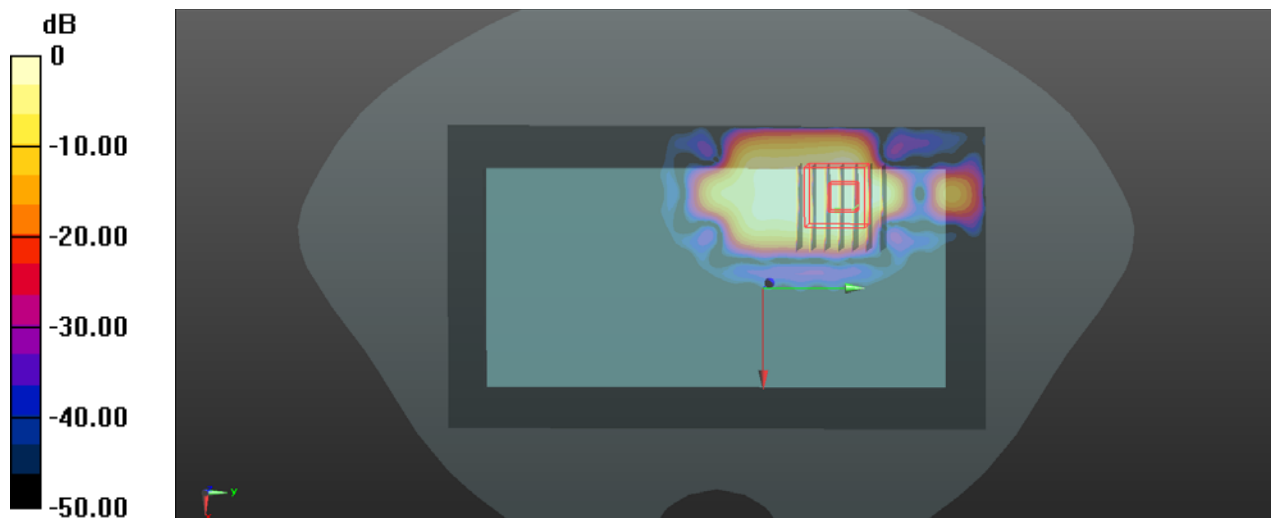
- **Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 0.6310 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.0240 W/kg

SAR(1 g) = 0.00757 W/kg; SAR(10 g) = 0.00237 W/kg

Maximum value of SAR (measured) = 0.0156 W/kg



0 dB = 0.0156 W/kg

P11 WLAN2.4G_802.11b_Right Side_0cm_Ch6_Ant2

Communication System: 802.11b; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: HSL2450_1124 Medium parameters used: $f = 2437$ MHz; $\sigma = 1.751$ S/m; $\epsilon_r = 39.315$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4°C; Liquid Temperature : 22.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(7.88, 7.88, 7.88) @ 2437 MHz; Calibrated: 8/25/2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 10/26/2021
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (41x171x1)**: Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 2.80 W/kg

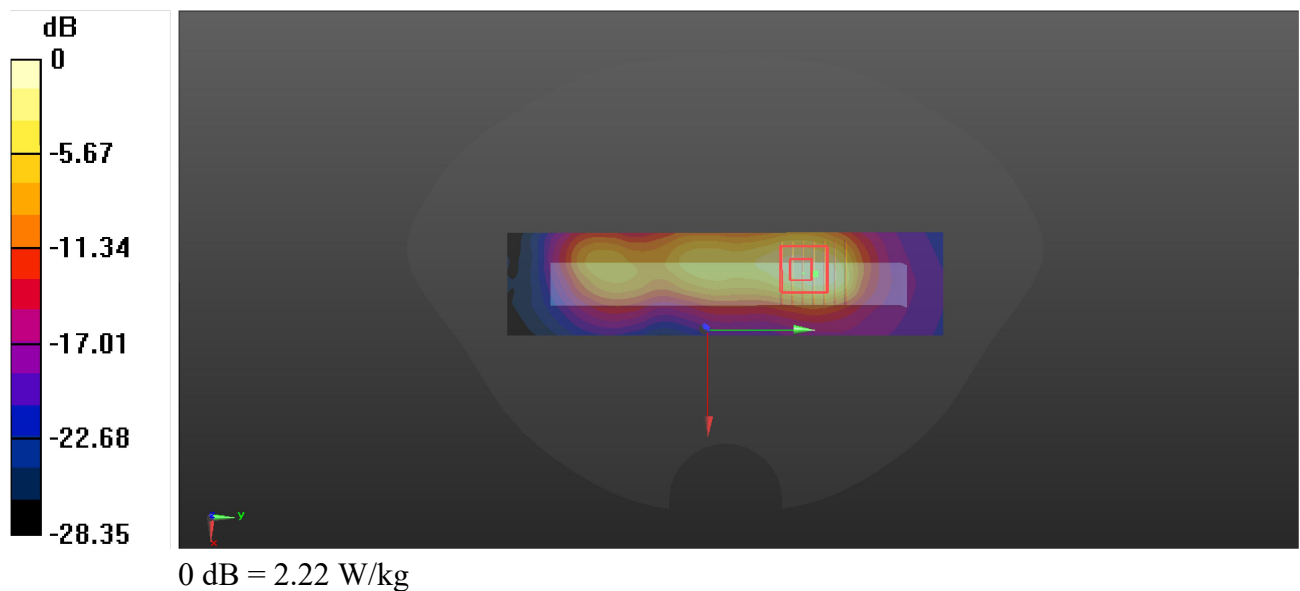
- **Zoom Scan (7x7x7)/Cube 0**: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 16.75 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 2.96 W/kg

SAR(1 g) = 1.36 W/kg; SAR(10 g) = 0.651 W/kg

Maximum value of SAR (measured) = 2.22 W/kg



P12 WLAN5G_802.11a_Left Side_0cm_Ch64_Ant1

Communication System: 802.11a; Frequency: 5320 MHz; Duty Cycle: 1:1.07

Medium: HSL5G_1122 Medium parameters used: $f = 5320$ MHz; $\sigma = 4.805$ S/m; $\epsilon_r = 36.205$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5°C; Liquid Temperature : 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(4.8, 4.8, 4.8) @ 5320 MHz; Calibrated: 8/25/2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 10/26/2021
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (51x191x1):** Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm
Maximum value of SAR (interpolated) = 6.85 W/kg

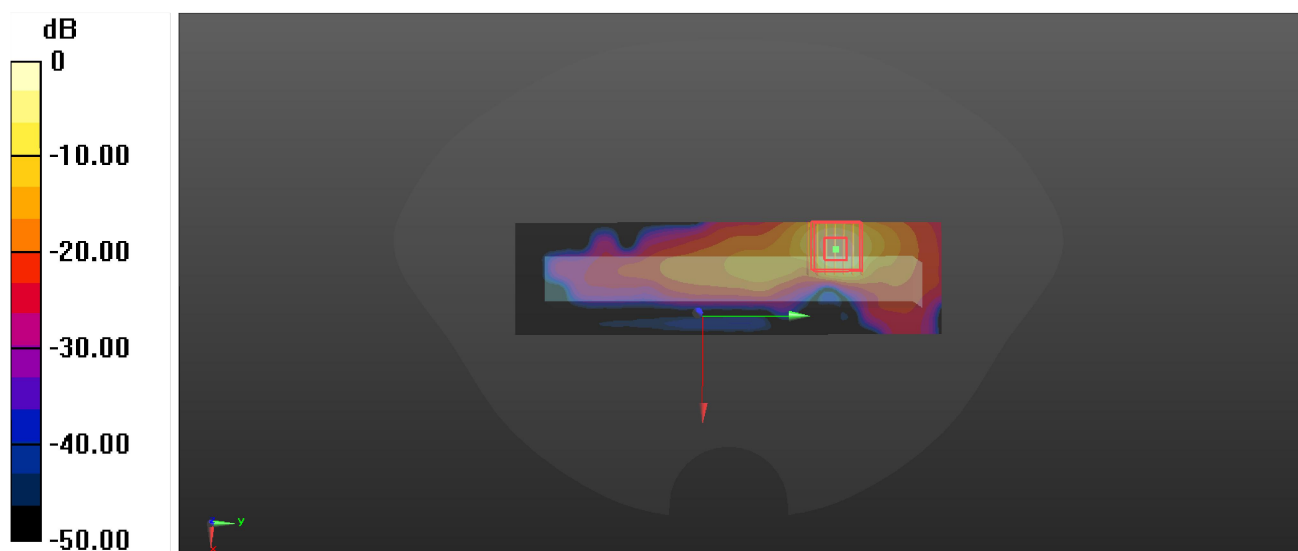
- **Zoom Scan (7x7x12)/Cube 0:** Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 2.977 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 12.7 W/kg

SAR(1 g) = 2.67 W/kg; SAR(10 g) = 0.649 W/kg

Maximum value of SAR (measured) = 7.43 W/kg



P13 WLAN5G_802.11a_Left Side_0cm_Ch100_Ant1

Communication System: 802.11a; Frequency: 5500 MHz; Duty Cycle: 1:1.07

Medium: HSL5G_1122 Medium parameters used: $f = 5500$ MHz; $\sigma = 4.984$ S/m; $\epsilon_r = 35.933$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5°C; Liquid Temperature : 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(4.5, 4.5, 4.5) @ 5500 MHz; Calibrated: 8/25/2021
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 10/26/2021
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 2018
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

- **Area Scan (51x191x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 6.75 W/kg

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

Reference Value = 2.643 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 11.5 W/kg

SAR(1 g) = 2.26 W/kg; SAR(10 g) = 0.535 W/kg

Maximum value of SAR (measured) = 6.42 W/kg

