



FCC SAR Test Report

Plo t No.	Band	Mode	Test Position	Separation Distance (cm)	Ch.	RB#	RB Offset	Power Reduction	Duty Cycle %	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Duty Cycle Scaling Factor	Tune-up Scaling Factor	Scaled SAR-1g (W/kg)
	LTE 7	QPSK20M	Bottom Side	2	21100	50	0	Full	-	23	22.48	0.07	0.393	-	1.13	0.44
	LTE 12	QPSK10M	Front Face	1	23095	1	0	Full	-	25	24.11	0.13	0.155	-	1.23	0.19
41	LTE 12	QPSK10M	Rear Face	1	23095	1	0	Full	-	25	24.11	0.07	0.218	-	1.23	0.27
	LTE 12	QPSK10M	Left Side	1	23095	1	0	Full	-	25	24.11	-0.03	0.148	-	1.23	0.18
	LTE 12	QPSK10M	Right Side	1	23095	1	0	Full	-	25	24.11	0.03	0.187	-	1.23	0.23
	LTE 12	QPSK10M	Bottom Side	1	23095	1	0	Full	-	25	24.11	0.02	0.066	-	1.23	0.08
	LTE 12	QPSK10M	Front Face	1	23095	25	25	Full	-	24	23.14	0.01	0.138	-	1.22	0.17
	LTE 12	QPSK10M	Rear Face	1	23095	25	25	Full	-	24	23.14	0.09	0.197	-	1.22	0.24
	LTE 12	QPSK10M	Left Side	1	23095	25	25	Full	-	24	23.14	0.04	0.135	-	1.22	0.16
	LTE 12	QPSK10M	Right Side	1	23095	25	25	Full	-	24	23.14	0.05	0.163	-	1.22	0.20
	LTE 12	QPSK10M	Bottom Side	1	23095	25	25	Full	-	24	23.14	0	0.058	-	1.22	0.07
	LTE 13	QPSK10M	Front Face	1	23230	1	0	Full	-	25	24.08	0.02	0.245	-	1.24	0.30
42	LTE 13	QPSK10M	Rear Face	1	23230	1	0	Full	-	25	24.08	-0.01	0.323	-	1.24	0.40
	LTE 13	QPSK10M	Left Side	1	23230	1	0	Full	-	25	24.08	0.06	0.224	-	1.24	0.28
	LTE 13	QPSK10M	Right Side	1	23230	1	0	Full	-	25	24.08	0.09	0.293	-	1.24	0.36
	LTE 13	QPSK10M	Bottom Side	1	23230	1	0	Full	-	25	24.08	-0.03	0.106	-	1.24	0.13
	LTE 13	QPSK10M	Front Face	1	23230	25	0	Full	-	24	23.27	0.1	0.190	-	1.18	0.22
	LTE 13	QPSK10M	Rear Face	1	23230	25	0	Full	-	24	23.27	0.06	0.266	-	1.18	0.31
	LTE 13	QPSK10M	Left Side	1	23230	25	0	Full	-	24	23.27	0.01	0.169	-	1.18	0.20
	LTE 13	QPSK10M	Right Side	1	23230	25	0	Full	-	24	23.27	0.09	0.223	-	1.18	0.26
	LTE 13	QPSK10M	Bottom Side	1	23230	25	0	Full	-	24	23.27	0.08	0.060	-	1.18	0.07
	LTE 66	QPSK20M	Front Face	1	132322	1	0	Reduce	-	19.5	19	0.09	0.347	-	1.12	0.39
	LTE 66	QPSK20M	Rear Face	1	132322	1	0	Reduce	-	19.5	19	0.01	0.625	-	1.12	0.70
	LTE 66	QPSK20M	Left Side	1	132322	1	0	Full	-	24.5	24.19	0.06	0.053	-	1.07	0.06
	LTE 66	QPSK20M	Right Side	1	132322	1	0	Full	-	24.5	24.19	0.05	0.217	-	1.07	0.23
	LTE 66	QPSK20M	Bottom Side	1	132322	1	0	Reduce	-	19.5	19	0.09	0.687	-	1.12	0.77
	LTE 66	QPSK20M	Front Face	1.3	132322	1	0	Full	-	24.5	24.19	-0.01	0.882	-	1.07	0.95
	LTE 66	QPSK20M	Rear Face	1.8	132322	1	0	Full	-	24.5	24.19	0.06	0.787	-	1.07	0.85
	LTE 66	QPSK20M	Bottom Side	2	132322	1	0	Full	-	24.5	24.19	-0.03	0.848	-	1.07	0.91
	LTE 66	QPSK20M	Front Face	1	132322	50	0	Reduce	-	18.5	18.13	-0.01	0.265	-	1.09	0.29
	LTE 66	QPSK20M	Rear Face	1	132322	50	0	Reduce	-	18.5	18.13	0.02	0.487	-	1.09	0.53
	LTE 66	QPSK20M	Left Side	1	132322	50	0	Full	-	23.5	23.27	0.08	0.038	-	1.05	0.04
	LTE 66	QPSK20M	Right Side	1	132322	50	0	Full	-	23.5	23.27	-0.01	0.163	-	1.05	0.17
	LTE 66	QPSK20M	Bottom Side	1	132322	50	0	Reduce	-	18.5	18.13	0.02	0.542	-	1.09	0.59
	LTE 66	QPSK20M	Front Face	1.3	132322	50	0	Full	-	23.5	23.27	0.05	0.695	-	1.05	0.73
	LTE 66	QPSK20M	Rear Face	1.8	132322	50	0	Full	-	23.5	23.27	0.11	0.606	-	1.05	0.64
	LTE 66	QPSK20M	Bottom Side	2	132322	50	0	Full	-	23.5	23.27	0.07	0.699	-	1.05	0.74
43	LTE 66	QPSK20M	Front Face	1.3	132072	1	0	Full	-	24.5	23.91	0.13	0.949	-	1.15	1.09
	LTE 66	QPSK20M	Front Face	1.3	132572	1	0	Full	-	24.5	24.03	-0.13	0.711	-	1.11	0.79
	LTE 66	QPSK20M	Rear Face	1.8	132072	1	0	Full	-	24.5	23.91	0.14	0.875	-	1.15	1.00
	LTE 66	QPSK20M	Rear Face	1.8	132572	1	0	Full	-	24.5	24.03	-0.11	0.579	-	1.11	0.65
	LTE 66	QPSK20M	Bottom Side	2	132072	1	0	Full	-	24.5	23.91	0.1	0.920	-	1.15	1.05
	LTE 66	QPSK20M	Bottom Side	2	132572	1	0	Full	-	24.5	24.03	-0.04	0.684	-	1.11	0.76
	WLAN2.4G	802.11b	Front Face	1	1	-	-	Full	96.78	19	18.12	0.02	0.210	1.03	1.22	0.27
44	WLAN2.4G	802.11b	Rear Face	1	1	-	-	Full	96.78	19	18.12	-0.18	0.364	1.03	1.22	0.46
	WLAN2.4G	802.11b	Right Side	1	1	-	-	Full	96.78	19	18.12	0.03	0.301	1.03	1.22	0.38
	WLAN2.4G	802.11b	Top Side	1	1	-	-	Full	96.78	19	18.12	0.01	0.201	1.03	1.22	0.25
	WLAN2.4G	802.11b	Rear Face	1.8	1	-	-	Full	96.78	19	18.12	0.06	0.144	1.03	1.22	0.18
	WLAN5G	802.11a	Front Face	1	48	-	-	Full	89.68	19	18.3	0.02	0.101	1.12	1.17	0.13
45	WLAN5G	802.11a	Rear Face	1	48	-	-	Full	89.68	19	18.3	0.19	0.605	1.12	1.17	0.79
	WLAN5G	802.11a	Right Side	1	48	-	-	Full	89.68	19	18.3	0.01	0.145	1.12	1.17	0.19
	WLAN5G	802.11a	Top Side	1	48	-	-	Full	89.68	19	18.3	0.15	0.422	1.12	1.17	0.55
	WLAN5G	802.11a	Rear Face	1.8	48	-	-	Full	89.68	19	18.3	0.07	0.226	1.12	1.17	0.30
	WLAN5G	802.11a	Front Face	1	165	-	-	Full	90.32	19	18.84	0.03	0.098	1.11	1.04	0.11
46	WLAN5G	802.11a	Rear Face	1	165	-	-	Full	90.32	19	18.84	-0.06	0.362	1.11	1.04	0.42
	WLAN5G	802.11a	Right Side	1	165	-	-	Full	90.32	19	18.84	-0.03	0.162	1.11	1.04	0.19
	WLAN5G	802.11a	Top Side	1	165	-	-	Full	90.32	19	18.84	-0.02	0.230	1.11	1.04	0.26
	WLAN5G	802.11a	Rear Face	1.8	165	-	-	Full	90.32	19	18.84	0.01	0.285	1.11	1.04	0.33
	BT	GFSK	Front Face	1	0	-	-	Full	77.6	8	7.04	-0.03	0.013	1.29	1.25	0.02
47	BT	GFSK	Rear Face	1	0	-	-	Full	77.6	8	7.04	0.06	0.021	1.29	1.25	0.03
	BT	GFSK	Right Side	1	0	-	-	Full	77.6	8	7.04	-0.01	0.017	1.29	1.25	0.03
	BT	GFSK	Top Side	1	0	-	-	Full	77.6	8	7.04	0.02	0.004	1.29	1.25	0.01

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4.6.5 SAR Results for Extremity Exposure Condition (Separation Distance is 0 cm Gap)

Plot No.	Band	Mode	Test Position	Separation Distance (cm)	Ch.	RB#	RB Offset	Power Reduction	Duty Cycle %	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-10g (W/kg)	Duty Cycle Scaling Factor	Tune-up Scaling Factor	Scaled SAR-10g (W/kg)
48	WCDMA IV	RMC12.2K	Rear Face	0	1312	-	-	Reduce	-	18.5	18.15	0.07	0.688	-	1.08	0.75
	WCDMA IV	RMC12.2K	Bottom Side	0	1312	-	-	Reduce	-	18.5	18.15	-0.03	0.686	-	1.08	0.74
49	LTE 2	QPSK20M	Bottom Side	0	18700	1	99	Reduce	-	22.5	22.2	-0.13	2.020	-	1.07	2.16
	LTE 2	QPSK20M	Bottom Side	0	18700	50	0	Reduce	-	21.5	21.27	0.08	1.620	-	1.05	1.71
	LTE 2	QPSK20M	Bottom Side	0	18700	1	99	Reduce	-	22.5	22.18	-0.13	1.960	-	1.08	2.11
	LTE 2	QPSK20M	Bottom Side	0	18700	1	99	Reduce	-	22.5	22.12	-0.13	1.730	-	1.09	1.89
	LTE 2	QPSK20M	Bottom Side	0	18700	100	0	Reduce	-	21.5	21.09	0.01	1.580	-	1.10	1.74
	LTE 7	QPSK20M	Rear Face	0	21100	1	0	Reduce	-	19	18.7	0.07	1.200	-	1.07	1.29
50	LTE 7	QPSK20M	Bottom Side	0	21100	1	0	Reduce	-	19	18.7	-0.08	1.260	-	1.07	1.35
	LTE 7	QPSK20M	Rear Face	0	21100	50	0	Reduce	-	18	17.7	0.17	0.798	-	1.07	0.86
	LTE 7	QPSK20M	Bottom Side	0	21100	50	0	Reduce	-	18	17.7	0	0.903	-	1.07	0.97
	LTE 66	QPSK20M	Front Face	0	132322	1	0	Reduce	-	19.5	19	0.17	0.709	-	1.12	0.80
51	LTE 66	QPSK20M	Rear Face	0	132322	1	0	Reduce	-	19.5	19	0.06	1.340	-	1.12	1.50
	LTE 66	QPSK20M	Bottom Side	0	132322	1	0	Reduce	-	19.5	19	0.03	1.180	-	1.12	1.32
	LTE 66	QPSK20M	Front Face	0	132322	50	0	Reduce	-	18.5	18.13	0.02	0.568	-	1.09	0.62
	LTE 66	QPSK20M	Rear Face	0	132322	50	0	Reduce	-	18.5	18.13	0.05	0.987	-	1.09	1.07
	LTE 66	QPSK20M	Bottom Side	0	132322	50	0	Reduce	-	18.5	18.13	-0.13	0.975	-	1.09	1.06
	WLAN5G	802.11a	Front Face	0	64	-	-	-	89.68	19	18.86	0.07	0.334	1.12	1.03	0.38
	WLAN5G	802.11a	Rear Face	0	64	-	-	-	89.68	19	18.86	0.02	1.050	1.12	1.03	1.21
	WLAN5G	802.11a	Right Side	0	64	-	-	-	89.68	19	18.86	0.08	0.365	1.12	1.03	0.42
52	WLAN5G	802.11a	Top Side	0	64	-	-	-	89.68	19	18.86	-0.12	1.120	1.12	1.03	1.29
	WLAN5G	802.11a	Front Face	0	140	-	-	-	89.68	19	18.8	0.03	0.383	1.12	1.05	0.45
	WLAN5G	802.11a	Rear Face	0	140	-	-	-	89.68	19	18.8	0.17	0.746	1.12	1.05	0.87
	WLAN5G	802.11a	Right Side	0	140	-	-	-	89.68	19	18.8	0.11	0.351	1.12	1.05	0.41
53	WLAN5G	802.11a	Top Side	0	140	-	-	-	89.68	19	18.8	0	0.757	1.12	1.05	0.88

4.6.6 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	Separation Distance (cm)	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
WCDMA IV	Bottom Side	2	1312	0.972	0.955	1.02	N/A	N/A	N/A	N/A
LTE B2	Bottom Side	1	18700	0.992	0.961	1.03	N/A	N/A	N/A	N/A

Band	Test Position	Separation Distance (cm)	Ch.	Original Measured SAR-10g (W/kg)	1st Repeated SAR-10g (W/kg)	L/S Ratio	2nd Repeated SAR-10g (W/kg)	L/S Ratio	3rd Repeated SAR-10g (W/kg)	L/S Ratio
LTE B2	Bottom Side	0	18700	2.020	1.970	1.03	N/A	N/A	N/A	N/A

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4.6.7 Simultaneous Multi-band Transmission Evaluation

<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.

<Head>

WWAN Band	Exposure Position	1	2	3	4	1+2 Summed 1g SAR (W/kg)	1+3+4 Summed 1g SAR (W/kg)
		WWAN	2.4GHz WLAN	5GHz WLAN	Bluetooth		
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)		
GSM850	Right Cheek	0.313	0.538	0.267	0.049	0.85	0.63
	Right Tilted	0.166	0.544	0.321	0.045	0.71	0.53
	Left Cheek	0.257	1.003	0.701	0.073	1.26	1.03
	Left Tilted	0.139	0.691	0.620	0.063	0.83	0.82
GSM1900	Right Cheek	0.117	0.538	0.267	0.049	0.65	0.43
	Right Tilted	0.082	0.544	0.321	0.045	0.63	0.45
	Left Cheek	0.102	1.003	0.701	0.073	1.10	0.88
	Left Tilted	0.098	0.691	0.620	0.063	0.79	0.78
WCDMA II	Right Cheek	0.220	0.538	0.267	0.049	0.76	0.54
	Right Tilted	0.155	0.544	0.321	0.045	0.70	0.52
	Left Cheek	0.186	1.003	0.701	0.073	1.19	0.96
	Left Tilted	0.195	0.691	0.620	0.063	0.89	0.88
WCDMA IV	Right Cheek	0.171	0.538	0.267	0.049	0.71	0.49
	Right Tilted	0.107	0.544	0.321	0.045	0.65	0.47
	Left Cheek	0.140	1.003	0.701	0.073	1.14	0.91
	Left Tilted	0.104	0.691	0.620	0.063	0.80	0.79
WCDMA V	Right Cheek	0.298	0.538	0.267	0.049	0.84	0.61
	Right Tilted	0.161	0.544	0.321	0.045	0.71	0.53
	Left Cheek	0.243	1.003	0.701	0.073	1.25	1.02
	Left Tilted	0.157	0.691	0.620	0.063	0.85	0.84
LTE Band 2	Right Cheek	0.178	0.538	0.267	0.049	0.72	0.49
	Right Tilted	0.131	0.544	0.321	0.045	0.68	0.50
	Left Cheek	0.167	1.003	0.701	0.073	1.17	0.94
	Left Tilted	0.160	0.691	0.620	0.063	0.85	0.84
LTE Band 5	Right Cheek	0.299	0.538	0.267	0.049	0.84	0.62
	Right Tilted	0.189	0.544	0.321	0.045	0.73	0.56
	Left Cheek	0.261	1.003	0.701	0.073	1.26	1.04
	Left Tilted	0.164	0.691	0.620	0.063	0.86	0.85
LTE Band 7	Right Cheek	0.141	0.538	0.267	0.049	0.68	0.46
	Right Tilted	0.083	0.544	0.321	0.045	0.63	0.45

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WWAN Band	Exposure Position	1	2	3	4	1+2 Summed 1g SAR (W/kg)	1+3+4 Summed 1g SAR (W/kg)
		WWAN	2.4GHz WLAN	5GHz WLAN	Bluetooth		
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)		
	Left Cheek	0.084	1.003	0.701	0.073	1.09	0.86
	Left Tilted	0.051	0.691	0.620	0.063	0.74	0.73
LTE Band12	Right Cheek	0.128	0.538	0.267	0.049	0.67	0.44
	Right Tilted	0.080	0.544	0.321	0.045	0.62	0.45
	Left Cheek	0.149	1.003	0.701	0.073	1.15	0.92
	Left Tilted	0.103	0.691	0.620	0.063	0.79	0.78
LTE Band 13	Right Cheek	0.245	0.538	0.267	0.049	0.78	0.56
	Right Tilted	0.168	0.544	0.321	0.045	0.71	0.53
	Left Cheek	0.264	1.003	0.701	0.073	1.27	1.04
	Left Tilted	0.159	0.691	0.620	0.063	0.85	0.84
LTE Band 66	Right Cheek	0.160	0.538	0.267	0.049	0.70	0.48
	Right Tilted	0.089	0.544	0.321	0.045	0.63	0.46
	Left Cheek	0.132	1.003	0.701	0.073	1.14	0.91
	Left Tilted	0.097	0.691	0.620	0.063	0.79	0.78

<Body worn>

WWAN Band	Exposure Position	1	2	3	4	1+2 Summed 1g SAR (W/kg)	1+3+4 Summed 1g SAR (W/kg)
		WWAN	2.4GHz WLAN	5GHz WLAN	Bluetooth		
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)		
GSM850	Front at 10mm -	0.300	0.266	0.167	0.027	0.57	0.49
	Back at 10mm -	0.400	0.461	0.736	0.042	0.86	1.18
GSM1900	Front at 10mm -	0.403	0.266	0.167	0.027	0.67	0.60
	Back at 10mm -	0.557	0.461	0.736	0.042	1.02	1.33
WCDMA II	Front at 10mm -	0.354	0.266	0.167	0.027	0.62	0.55
	Back at 10mm -	0.413	0.461	0.736	0.042	0.87	1.19
	Front at 13mm -	0.560	0.266	0.132	0.027	0.83	0.72
	Back at 18mm -	0.358	0.182	0.327	0.042	0.54	0.73
WCDMA IV	Front at 10mm -	0.215	0.266	0.167	0.027	0.48	0.41
	Back at 10mm -	0.475	0.461	0.736	0.042	0.94	1.25
	Front at 13mm -	1.100	0.266	0.132	0.027	1.37	1.26
	Back at 18mm -	1.067	0.182	0.327	0.042	1.25	1.44
WCDMA V	Front at 10mm -	0.244	0.266	0.167	0.027	0.51	0.44
	Back at 10mm -	0.330	0.461	0.736	0.042	0.79	1.11
LTE Band 2	Front at 10mm -	0.403	0.266	0.167	0.027	0.67	0.60
	Back at 10mm -	0.620	0.461	0.736	0.042	1.08	1.40
	Front at 13mm -	0.461	0.266	0.132	0.027	0.73	0.62
	Back at 18mm -	0.357	0.182	0.327	0.042	0.54	0.73

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WWAN Band	Exposure Position	1	2	3	4	1+2 Summed 1g SAR (W/kg)	1+3+4 Summed 1g SAR (W/kg)
		WWAN	2.4GHz WLAN	5GHz WLAN	Bluetooth		
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)		
LTE Band 5	Front at 10mm -	0.252	0.266	0.167	0.027	0.52	0.45
	Back at 10mm -	0.324	0.461	0.736	0.042	0.79	1.10
LTE Band 7	Front at 10mm -	0.235	0.266	0.167	0.027	0.50	0.43
	Back at 10mm -	0.436	0.461	0.736	0.042	0.90	1.21
	Front at 13mm -	0.621	0.266	0.132	0.027	0.89	0.78
	Back at 18mm -	0.475	0.182	0.327	0.042	0.66	0.84
LTE Band 12	Front at 10mm -	0.190	0.266	0.167	0.027	0.46	0.38
	Back at 10mm -	0.268	0.461	0.736	0.042	0.73	1.05
LTE Band 13	Front at 10mm -	0.303	0.266	0.167	0.027	0.57	0.50
	Back at 10mm -	0.399	0.461	0.736	0.042	0.86	1.18
LTE Band 66	Front at 10mm -	0.389	0.266	0.167	0.027	0.66	0.58
	Back at 10mm -	0.701	0.461	0.736	0.042	1.16	1.48
	Front at 13mm -	1.087	0.266	0.132	0.027	1.35	1.25
	Back at 18mm -	1.002	0.182	0.327	0.042	1.18	1.37

<Hotspot>

WWAN Band	Exposure Position	1	2	3	4	1+2 Summed 1g SAR (W/kg)	1+3+4 Summed 1g SAR (W/kg)
		WWAN	2.4GHz WLAN Ant 1	5GHz WLAN Ant 1	Bluetooth Ant 1		
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)		
GSM850	Front at 10mm -	0.300	0.266	0.132	0.027	0.57	0.46
	Back at 10mm -	0.400	0.461	0.793	0.042	0.86	1.23
	Left side at 10mm -	0.227				0.23	0.23
	Right side at 10mm -	0.261	0.381	0.190	0.035	0.64	0.49
	Top side at 10mm -		0.254	0.553	0.008	0.25	0.56
	Bottom side at 10mm -	0.173				0.17	0.17
GSM1900	Front at 10mm -	0.403	0.266	0.132	0.027	0.67	0.56
	Back at 10mm -	0.557	0.461	0.793	0.042	1.02	1.39
	Left side at 10mm -	0.107				0.11	0.11
	Right side at 10mm -	0.111	0.381	0.190	0.035	0.49	0.34
	Top side at 10mm -		0.254	0.553	0.008	0.25	0.56
	Bottom side at 10mm -	0.995				0.99	0.99
WCDMA II	Front at 10mm -	0.354	0.266	0.132	0.027	0.62	0.51
	Back at 10mm -	0.413	0.461	0.793	0.042	0.87	1.25
	Left side at 10mm -	0.149				0.15	0.15
	Right side at 10mm -	0.128	0.381	0.190	0.035	0.51	0.35
	Top side at 10mm -		0.254	0.553	0.008	0.25	0.56
	Bottom side at 10mm -	0.605				0.60	0.60

FCC SAR Test Report

WWAN Band	Exposure Position	1	2	3	4	1+2 Summed 1g SAR (W/kg)	1+3+4 Summed 1g SAR (W/kg)
		WWAN	2.4GHz WLAN Ant 1	5GHz WLAN Ant 1	Bluetooth Ant 1		
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)		
	Front at 13mm -	0.560	0.266	0.132	0.027	0.83	0.72
	Back at 18mm -	0.358	0.182	0.327	0.042	0.54	0.73
	Bottom side at 20mm -	0.412				0.41	0.41
WCDMA IV	Front at 10mm -	0.215	0.266	0.132	0.027	0.48	0.37
	Back at 10mm -	0.475	0.461	0.793	0.042	0.94	1.31
	Left side at 10mm -	0.066				0.07	0.07
	Right side at 10mm -	0.244	0.381	0.190	0.035	0.63	0.47
	Top side at 10mm -		0.254	0.553	0.008	0.25	0.56
	Bottom side at 10mm -	0.516				0.52	0.52
	Front at 13mm -	1.100	0.266	0.132	0.027	1.37	1.26
	Back at 18mm -	1.067	0.182	0.327	0.042	1.25	1.44
	Bottom side at 20mm -	1.153				1.15	1.15
WCDMA V	Front at 10mm -	0.244	0.266	0.132	0.027	0.51	0.40
	Back at 10mm -	0.330	0.461	0.793	0.042	0.79	1.17
	Left side at 10mm -	0.188				0.19	0.19
	Right side at 10mm -	0.239	0.381	0.190	0.035	0.62	0.46
	Top side at 10mm -		0.254	0.553	0.008	0.25	0.56
	Bottom side at 10mm -	0.149				0.15	0.15
LTE Band 2	Front at 10mm -	0.403	0.266	0.132	0.027	0.67	0.56
	Back at 10mm -	0.620	0.461	0.793	0.042	1.08	1.46
	Left side at 10mm -	0.177				0.18	0.18
	Right side at 10mm -	0.171	0.381	0.190	0.035	0.55	0.40
	Top side at 10mm -		0.254	0.553	0.008	0.25	0.56
	Bottom side at 10mm -	1.063				1.06	1.06
	Front at 13mm -	0.461	0.266	0.132	0.027	0.73	0.62
	Back at 18mm -	0.357	0.182	0.327	0.042	0.54	0.73
	Bottom side at 20mm -	0.733				0.73	0.73
LTE Band 5	Front at 10mm -	0.252	0.266	0.132	0.027	0.52	0.41
	Back at 10mm -	0.324	0.461	0.793	0.042	0.79	1.16
	Left side at 10mm -	0.200				0.20	0.20
	Right side at 10mm -	0.246	0.381	0.190	0.035	0.63	0.47
	Top side at 10mm -		0.254	0.553	0.008	0.25	0.56
	Bottom side at 10mm -	0.168				0.17	0.17
LTE Band 7	Front at 10mm -	0.235	0.266	0.132	0.027	0.50	0.39
	Back at 10mm -	0.436	0.461	0.793	0.042	0.90	1.27
	Left side at 10mm -	0.035				0.03	0.03
	Right side at 10mm -	0.112	0.381	0.190	0.035	0.49	0.34
	Top side at 10mm -		0.254	0.553	0.008	0.25	0.56
	Bottom side at 10mm -	0.421				0.42	0.42

FCC SAR Test Report

WWAN Band	Exposure Position	1	2	3	4	1+2 Summed 1g SAR (W/kg)	1+3+4 Summed 1g SAR (W/kg)
		WWAN	2.4GHz WLAN Ant 1	5GHz WLAN Ant 1	Bluetooth Ant 1		
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)		
	Front at 13mm -	0.621	0.266	0.132	0.027	0.89	0.78
	Back at 18mm -	0.475	0.182	0.327	0.042	0.66	0.84
	Bottom side at 20mm -	0.472				0.47	0.47
LTE Band 12	Front at 10mm -	0.190	0.266	0.132	0.027	0.46	0.35
	Back at 10mm -	0.268	0.461	0.793	0.042	0.73	1.10
	Left side at 10mm -	0.182				0.18	0.18
	Right side at 10mm -	0.230	0.381	0.190	0.035	0.61	0.45
	Top side at 10mm -		0.254	0.553	0.008	0.25	0.56
	Bottom side at 10mm -	0.081				0.08	0.08
LTE Band 13	Front at 10mm -	0.303	0.266	0.132	0.027	0.57	0.46
	Back at 10mm -	0.399	0.461	0.793	0.042	0.86	1.23
	Left side at 10mm -	0.277				0.28	0.28
	Right side at 10mm -	0.362	0.381	0.190	0.035	0.74	0.59
	Top side at 10mm -		0.254	0.553	0.008	0.25	0.56
	Bottom side at 10mm -	0.131				0.13	0.13
LTE Band 66	Front at 10mm -	0.389	0.266	0.132	0.027	0.66	0.55
	Back at 10mm -	0.701	0.461	0.793	0.042	1.16	1.54
	Left side at 10mm -	0.057				0.06	0.06
	Right side at 10mm -	0.233	0.381	0.190	0.035	0.61	0.46
	Top side at 10mm -		0.254	0.553	0.008	0.25	0.56
	Bottom side at 10mm -	0.771				0.77	0.77
	Front at 13mm -	1.087	0.266	0.132	0.027	1.35	1.25
	Back at 18mm -	1.002	0.182	0.327	0.042	1.18	1.37
	Bottom side at 20mm -	1.054				1.05	1.05

FCC SAR Test Report

<Extremity>

WWAN Band	Exposure Position	1	2	3	4	1+2+4 Summed 10g SAR (W/kg)	1+3+4 Summed 10g SAR (W/kg)
		WWAN	2.4GHz WLAN	5GHz WLAN	Bluetooth		
		10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)		
WCDMA IV	Front at 0mm -			0.447		0.00	0.45
	Back at 0mm -	0.746		1.209		0.75	1.95
	Right side at 0mm -			0.420		0.00	0.42
	Top side at 0mm -			1.290		0.00	1.29
	Bottom side at 0mm -	0.744				0.74	0.74
LTE Band 2	Front at 0mm -			0.447		0.00	0.45
	Back at 0mm -			1.209		0.00	1.21
	Right side at 0mm -			0.420		0.00	0.42
	Top side at 0mm -			1.290		0.00	1.29
	Bottom side at 0mm -	2.164				2.16	2.16
LTE Band 7	Front at 0mm -			0.447		0.00	0.45
	Back at 0mm -	1.286		1.209		1.29	2.50
	Right side at 0mm -			0.420		0.00	0.42
	Top side at 0mm -			1.290		0.00	1.29
	Bottom side at 0mm -	1.350				1.35	1.35
LTE Band 66	Front at 0mm -	0.796		0.447		0.80	1.24
	Back at 0mm -	1.504		1.209		1.50	2.71
	Right side at 0mm -			0.420		0.00	0.42
	Top side at 0mm -			1.290		0.00	1.29
	Bottom side at 0mm -	1.324				1.32	1.32

Note: Summed 1+3+4 covers Summed 1+3 / 1+4 / 3+4.

Test Engineer : Jerry Chen, and Gengdong Deng

5. Calibration of Test Equipment

Equipment	Manufacturer	Model	SN	Cal. Date	Cal. Interval
System Validation Dipole	SPEAG	D750V3	1067	Sep. 16, 2021	1 Year
System Validation Dipole	SPEAG	D835V2	4d139	Sep. 17, 2021	1 Year
System Validation Dipole	SPEAG	D1750V2	1071	Sep. 18, 2021	1 Year
System Validation Dipole	SPEAG	D1900V2	5d159	Sep. 16, 2021	1 Year
System Validation Dipole	SPEAG	D2450V2	893	Sep. 18, 2021	1 Year
System Validation Dipole	SPEAG	D2600V2	1110	Sep. 16, 2021	1 Year
System Validation Dipole	SPEAG	D5GHzV2	1133	Sep. 14, 2021	1 Year
Data Acquisition Electronics	SPEAG	DAE4	1288	Aug. 20, 2021	1 Year
Dosimetric E-Field Probe	SPEAG	EX3DV4	3268	Aug. 24, 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
Radio Communication Analyzer	ANRITSU	MT8820C	6201465426	Feb. 25, 2021	1 Year
Wireless Communication Test Set	Agilent	E5515C	MY50260600	Jun. 02, 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:

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

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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_HSL750_211208

DUT: Dipole:750 MHz;Type:D750V3

Communication System: CW; Frequency: 750 MHz; Duty Cycle: 1:1

Medium: HSL750_1208 Medium parameters used: $f = 750$ MHz; $\sigma = 0.885$ S/m; $\epsilon_r = 42.917$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.2°C; Liquid Temperature : 22.6°C

DASY5 Configuration:

- Probe: ES3DV3 - SN3268; ConvF(6.6, 6.6, 6.6); Calibrated: 2021/8/24;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1288; Calibrated: 2021/8/20
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1610
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Pin=250mW/Area Scan (71x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

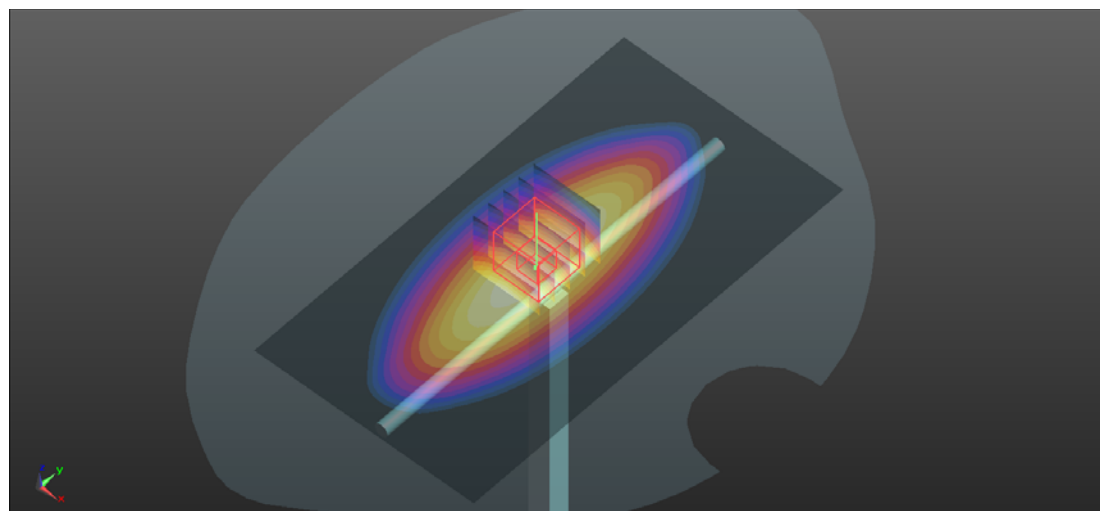
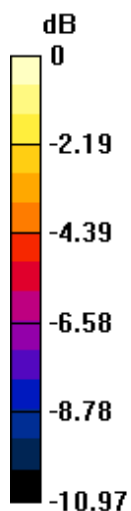
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 53.71 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 3.13 W/kg

SAR(1 g) = 2.06 W/kg; SAR(10 g) = 1.34 W/kg

Maximum value of SAR (measured) = 2.77 W/kg



0 dB = 2.77 W/kg

System Check_HSL835_211208

DUT: Dipole:835 MHz;Type:D835V2

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium: HSL835_1208 Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.899 \text{ S/m}$; $\epsilon_r = 41.592$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature : 23.4°C ; Liquid Temperature : 22.1°C

DASY5 Configuration:

- Probe: ES3DV3 - SN3268; ConvF(6.04, 6.04, 6.04); Calibrated: 2021/8/24;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1288; Calibrated: 2021/8/20
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1610
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Pin=250mW/Area Scan (71x121x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 3.32 W/kg

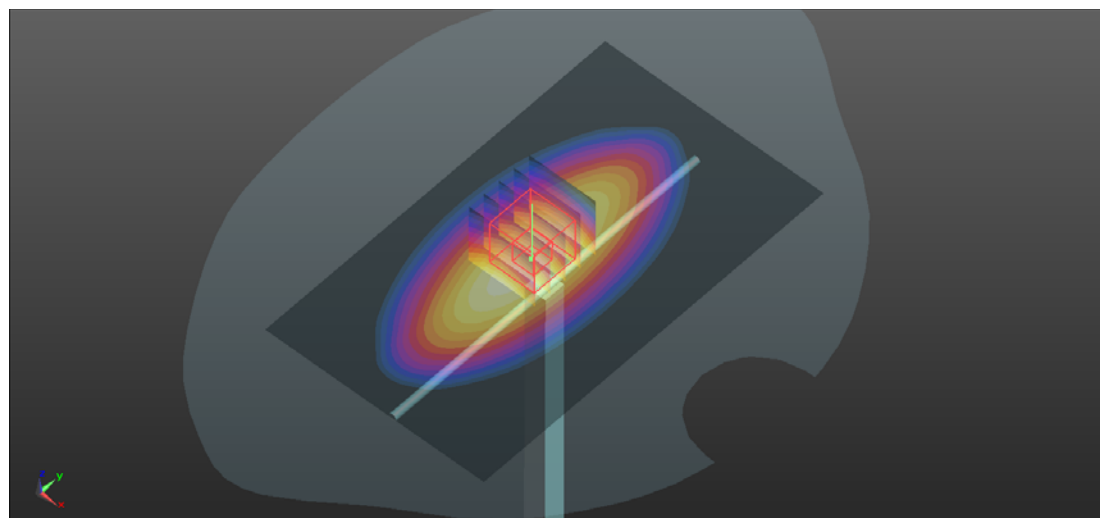
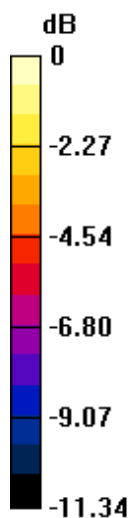
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 57.63 V/m ; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 3.78 W/kg

SAR(1 g) = 2.43 W/kg ; SAR(10 g) = 1.56 W/kg

Maximum value of SAR (measured) = 3.32 W/kg



0 dB = 3.32 W/kg

System Check_HSL1750_211209

DUT: Dipole:1750 MHz;Type:D1750V2

Communication System: CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium: HSL1750_1209 Medium parameters used: $f = 1750$ MHz; $\sigma = 1.345$ S/m; $\epsilon_r = 38.492$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5°C; Liquid Temperature : 22.2°C

DASY5 Configuration:

- Probe: ES3DV3 - SN3268; ConvF(5.43, 5.43, 5.43); Calibrated: 2021/8/24;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1288; Calibrated: 2021/8/20
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1610
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Pin=250mW/Area Scan (71x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 15.1 W/kg

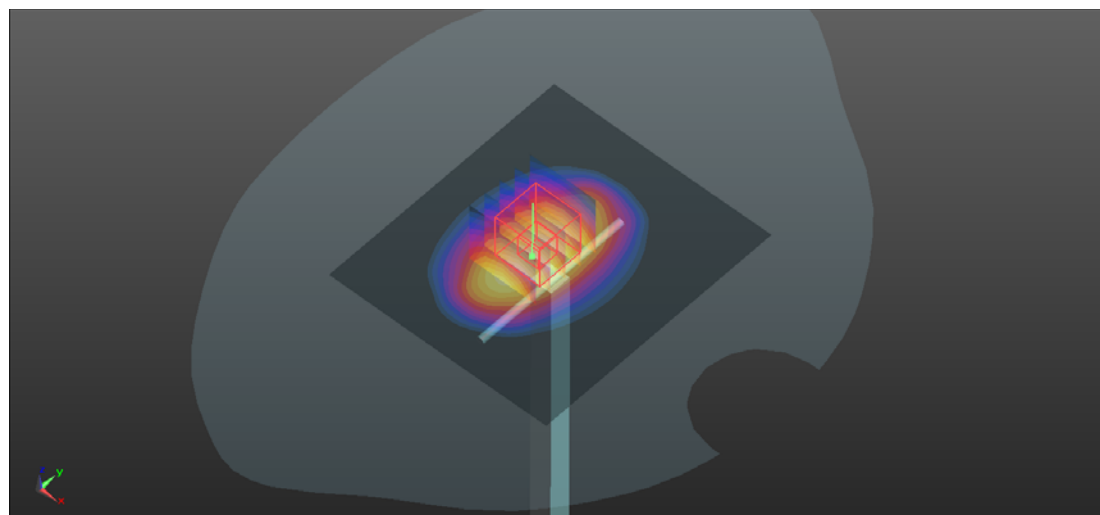
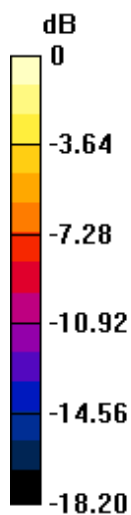
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 101.1 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 17.7 W/kg

SAR(1 g) = 9.34 W/kg; SAR(10 g) = 4.9 W/kg

Maximum value of SAR (measured) = 14.6 W/kg



0 dB = 14.6 W/kg

System Check_HSL1900_211210

DUT: Dipole:1900MHz;Type:D1900V2

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: HSL1900_1210 Medium parameters used: $f = 1900$ MHz; $\sigma = 1.434$ S/m; $\epsilon_r = 40.13$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.3°C; Liquid Temperature : 22.1°C

DASY5 Configuration:

- Probe: ES3DV3 - SN3268; ConvF(5.19, 5.19, 5.19); Calibrated: 2021/8/24;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1288; Calibrated: 2021/8/20
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1610
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Pin=250mW/Area Scan (61x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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

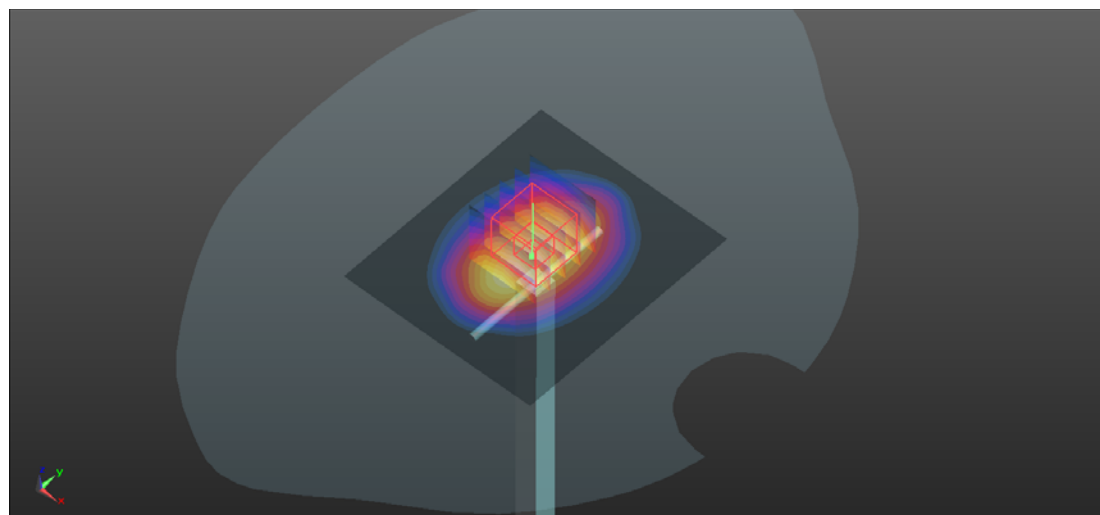
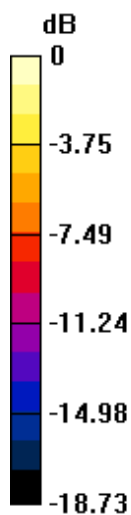
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 100.6 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 19.3 W/kg

SAR(1 g) = 10.2 W/kg; SAR(10 g) = 5.25 W/kg

Maximum value of SAR (measured) = 16.0 W/kg



0 dB = 16.0 W/kg

System Check_HSL2450_211211

DUT: Dipole:2450 MHz;Type:D2450V2

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

Medium: HSL2450_1211 Medium parameters used: $f = 2450$ MHz; $\sigma = 1.788$ S/m; $\epsilon_r = 39.571$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4°C; Liquid Temperature : 22.3°C

DASY5 Configuration:

- Probe: ES3DV3 - SN3268; ConvF(4.56, 4.56, 4.56); Calibrated: 2021/8/24;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1288; Calibrated: 2021/8/20
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1610
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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

Maximum value of SAR (interpolated) = 25.0 W/kg

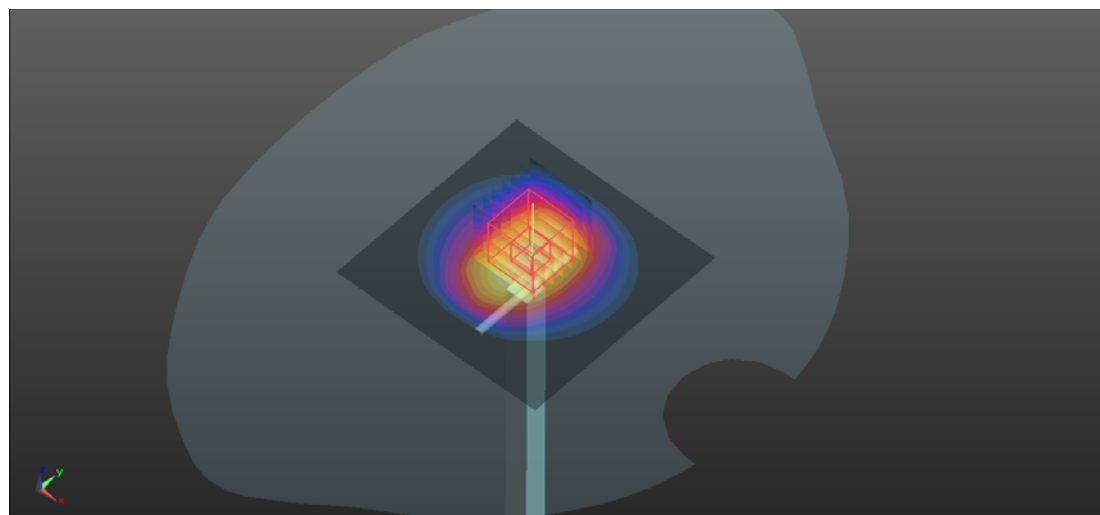
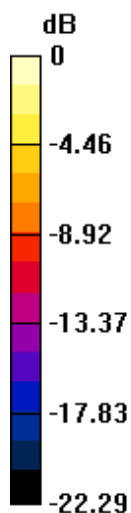
Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 112.2 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 29.1 W/kg

SAR(1 g) = 14.1 W/kg; SAR(10 g) = 6.58 W/kg

Maximum value of SAR (measured) = 23.6 W/kg



0 dB = 23.6 W/kg

System Check_HSL2600_211211

DUT: Dipole:2600 MHz;Type:D2600V2

Communication System: CW; Frequency: 2600 MHz; Duty Cycle: 1:1

Medium: HSL2600_1211 Medium parameters used: $f = 2600$ MHz; $\sigma = 1.894$ S/m; $\epsilon_r = 39.13$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.3°C; Liquid Temperature : 22.5°C

DASY5 Configuration:

- Probe: ES3DV3 - SN3268; ConvF(4.42, 4.42, 4.42); Calibrated: 2021/8/24;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1288; Calibrated: 2021/8/20
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1610
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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

Maximum value of SAR (interpolated) = 24.1 W/kg

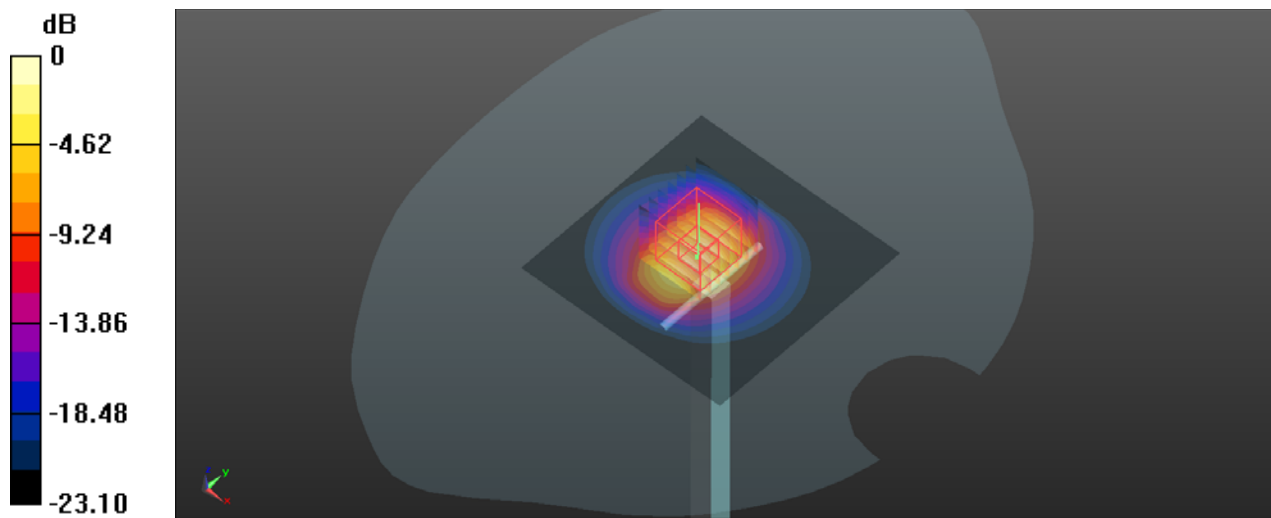
Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 105.2 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 30.8 W/kg

SAR(1 g) = 14.5 W/kg; SAR(10 g) = 6.52 W/kg

Maximum value of SAR (measured) = 24.7 W/kg



0 dB = 24.7 W/kg = 13.93 dBW/kg

System Check_HSL5250_211212

DUT: Dipole 5GHzV2;Type:D5GHzV2

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

Medium: HSL5G_1212 Medium parameters used: $f = 5250$ MHz; $\sigma = 4.723$ S/m; $\epsilon_r = 37.284$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.1°C; Liquid Temperature : 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(4.8, 4.8, 4.8); Calibrated: 2021/8/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2021/10/26
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1610
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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

Maximum value of SAR (interpolated) = 20.4 W/kg

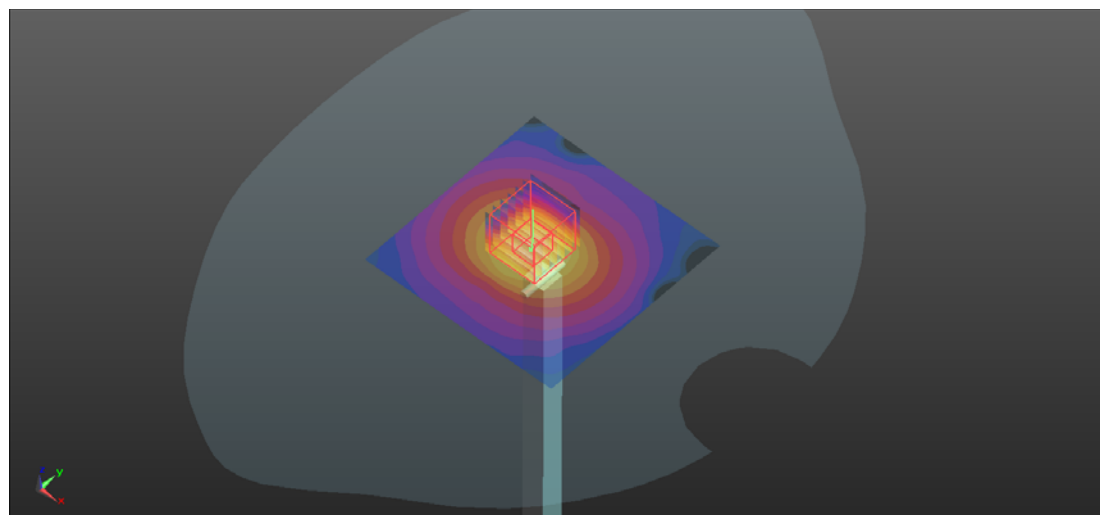
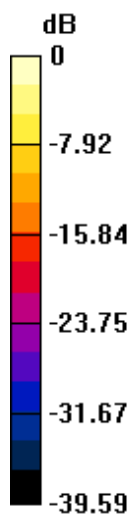
Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 59.88 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 33.3 W/kg

SAR(1 g) = 8.20 W/kg; SAR(10 g) = 2.31 W/kg

Maximum value of SAR (measured) = 21.1 W/kg



0 dB = 21.1 W/kg

System Check_HSL5600_211212

DUT: Dipole 5GHzV2;Type:D5GHzV2

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

Medium: HSL5G_1212 Medium parameters used: $f = 5600$ MHz; $\sigma = 5.065$ S/m; $\epsilon_r = 36.806$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.3°C; Liquid Temperature : 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(4.5, 4.5, 4.5); Calibrated: 2021/8/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2021/10/26
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1610
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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

Maximum value of SAR (interpolated) = 22.4 W/kg

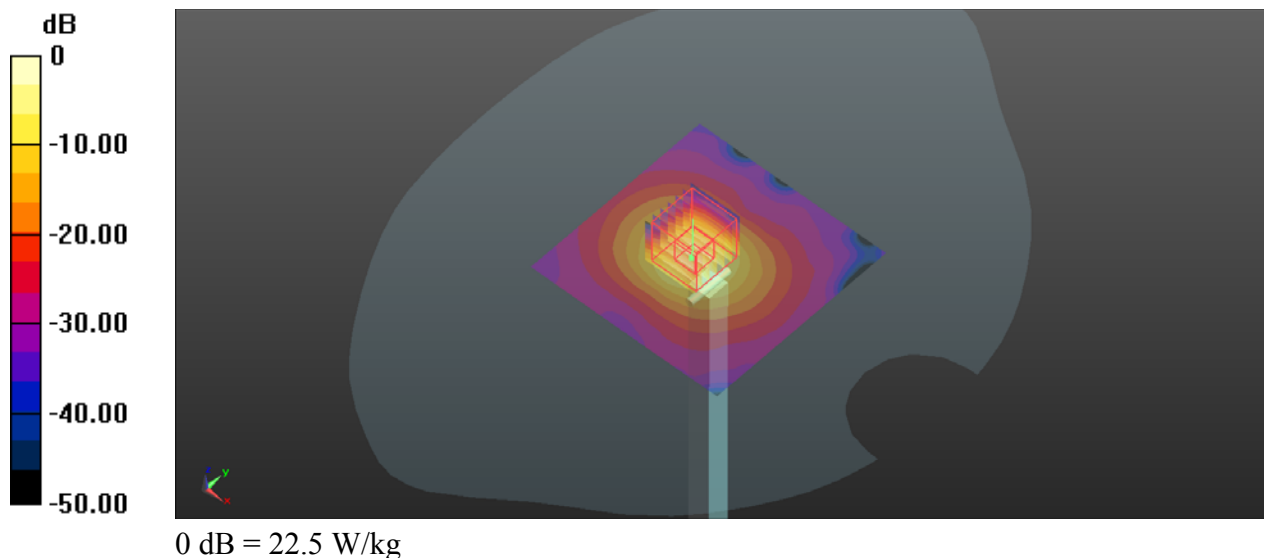
Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 55.27 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 38.1 W/kg

SAR(1 g) = 8.74 W/kg; SAR(10 g) = 2.41 W/kg

Maximum value of SAR (measured) = 22.5 W/kg



System Check_HSL5800_211212

DUT: Dipole 5GHzV2;Type:D5GHzV2

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

Medium: HSL5G_1212 Medium parameters used: $f = 5800$ MHz; $\sigma = 5.268$ S/m; $\epsilon_r = 36.541$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4°C; Liquid Temperature : 22.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(4.49, 4.49, 4.49); Calibrated: 2021/8/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2021/10/26
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1610
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

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

Maximum value of SAR (interpolated) = 21.5 W/kg

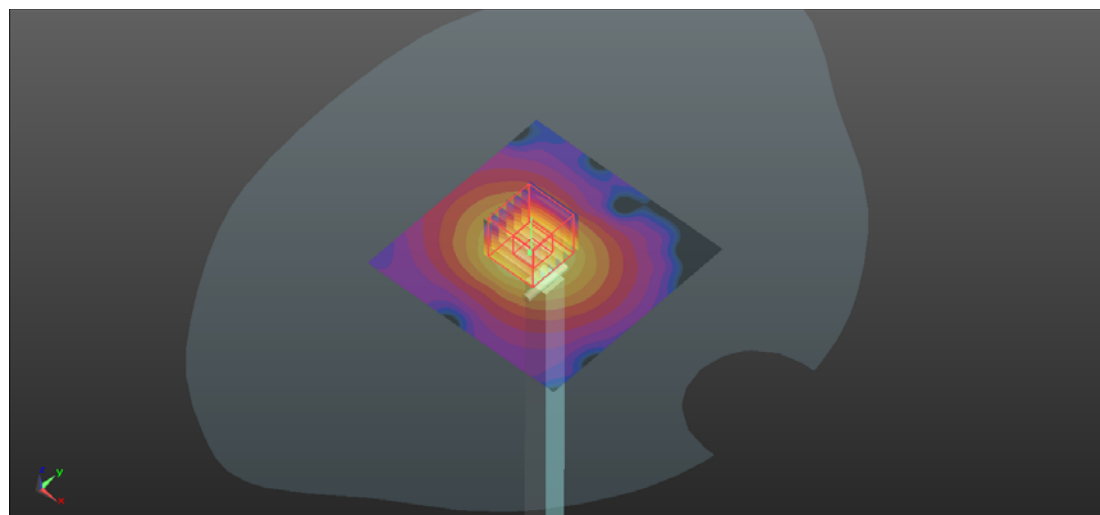
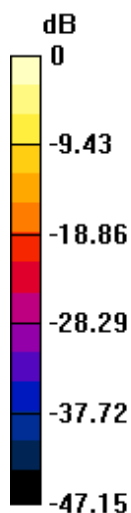
Pin=100mW/Zoom Scan (7x7x11)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 52.61 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 38.7 W/kg

SAR(1 g) = 8.11 W/kg; SAR(10 g) = 2.4 W/kg

Maximum value of SAR (measured) = 22.3 W/kg



0 dB = 22.3 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 GSM850_GPRS10_Right Cheek_Ch128

Communication System: GPRS10; Frequency: 824.2 MHz; Duty Cycle: 1:4.15

Medium: HSL835_1208 Medium parameters used: $f = 824.2$ MHz; $\sigma = 0.897$ S/m; $\epsilon_r = 41.606$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4°C; Liquid Temperature : 22.1°C

DASY5 Configuration:

- Probe: ES3DV3 - SN3268; ConvF(6.04, 6.04, 6.04); Calibrated: 2021/8/24;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1288; Calibrated: 2021/8/20
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1610
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- **Area Scan (81x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.226 W/kg

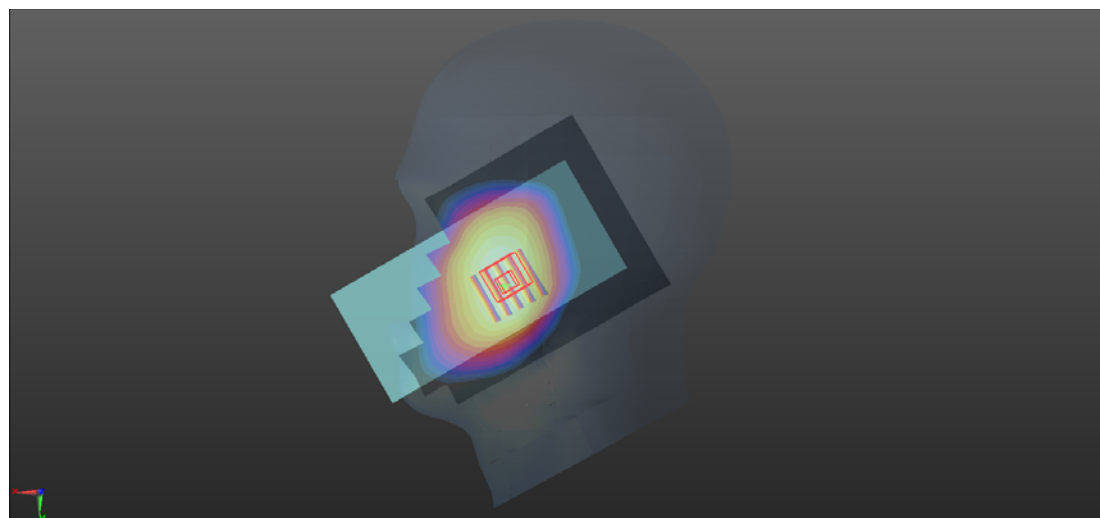
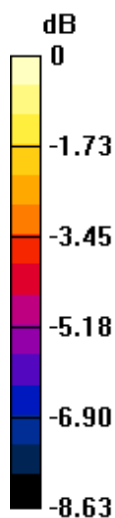
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.139 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.255 W/kg

SAR(1 g) = 0.212 W/kg; SAR(10 g) = 0.166 W/kg

Maximum value of SAR (measured) = 0.220 W/kg



0 dB = 0.220 W/kg

P02 GSM1900_GPRS10_Right Cheek_Ch512

Communication System: GPRS10; Frequency: 1850.2 MHz; Duty Cycle: 1:4.15

Medium: HSL1900_1210 Medium parameters used: $f = 1850.2$ MHz; $\sigma = 1.399$ S/m; $\epsilon_r = 40.199$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.3°C; Liquid Temperature : 22.1°C

DASY5 Configuration:

- Probe: ES3DV3 - SN3268; ConvF(5.19, 5.19, 5.19); Calibrated: 2021/8/24;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1288; Calibrated: 2021/8/20
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1610
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- Area Scan (81x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.105 W/kg

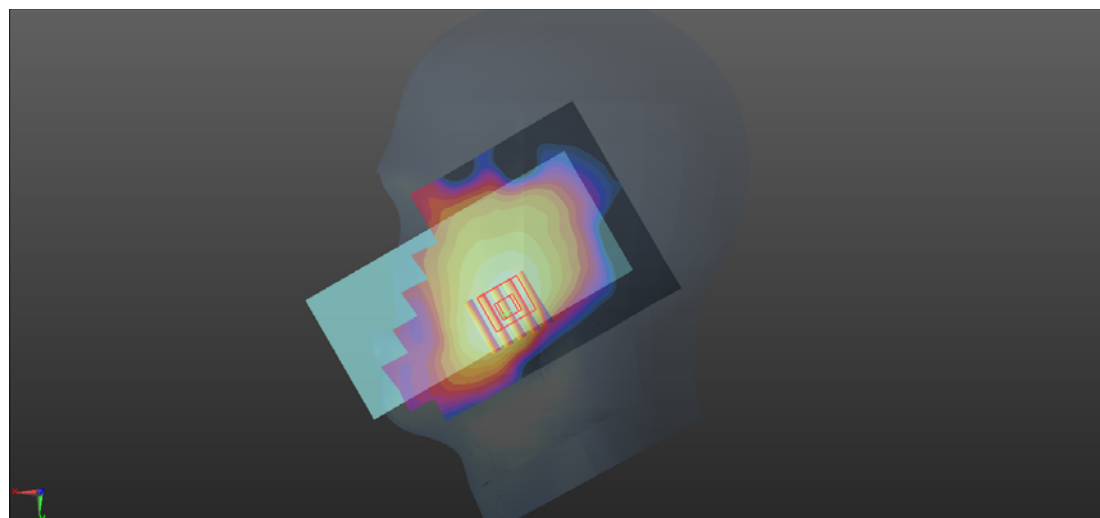
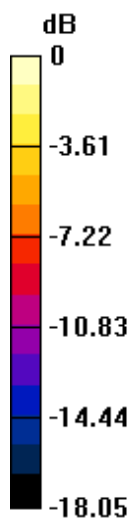
- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.806 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.129 W/kg

SAR(1 g) = 0.091 W/kg; SAR(10 g) = 0.060 W/kg

Maximum value of SAR (measured) = 0.0958 W/kg



0 dB = 0.0958 W/kg

P03 WCDMA II_RMC12.2K_Right Cheek_Ch9400

Communication System: WCDMA; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: HSL1900_1210 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.417$ S/m; $\epsilon_r = 40.13$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.3°C; Liquid Temperature : 22.1°C

DASY5 Configuration:

- Probe: ES3DV3 - SN3268; ConvF(5.19, 5.19, 5.19); Calibrated: 2021/8/24;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1288; Calibrated: 2021/8/20
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1610
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- **Area Scan (81x131x1)**: Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.202 W/kg

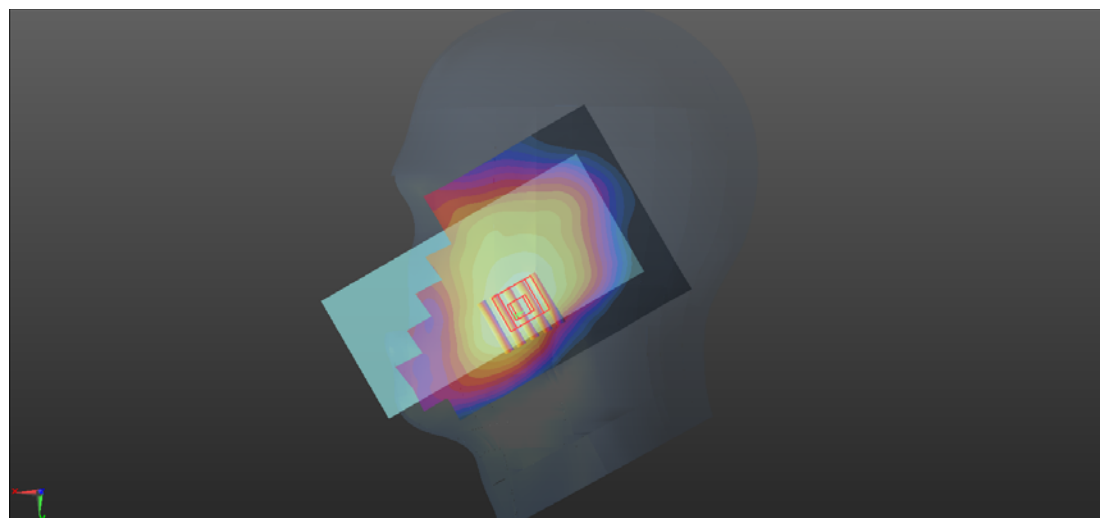
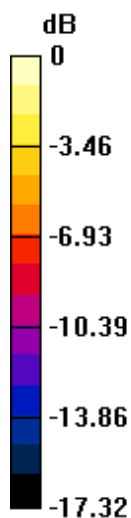
- **Zoom Scan (5x5x7)/Cube 0**: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.018 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.261 W/kg

SAR(1 g) = 0.180 W/kg; SAR(10 g) = 0.118 W/kg

Maximum value of SAR (measured) = 0.189 W/kg



0 dB = 0.189 W/kg

P04 WCDMA IV_RMC12.2K_Right Cheek_Ch1312

Communication System: WCDMA; Frequency: 1752.6 MHz; Duty Cycle: 1:1

Medium: HSL1750_1209 Medium parameters used: $f = 1753$ MHz; $\sigma = 1.347$ S/m; $\epsilon_r = 38.486$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5°C; Liquid Temperature : 22.2°C

DASY5 Configuration:

- Probe: ES3DV3 - SN3268; ConvF(5.43, 5.43, 5.43); Calibrated: 2021/8/24;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1288; Calibrated: 2021/8/20
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1610
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- **Area Scan (81x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.170 W/kg

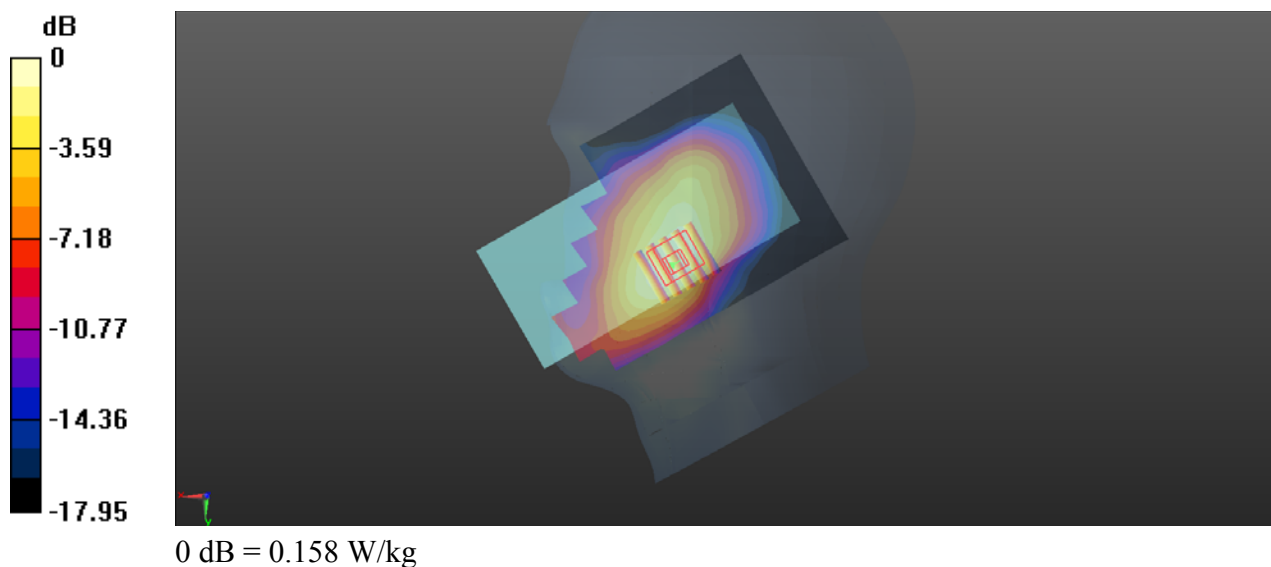
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.800 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.215 W/kg

SAR(1 g) = 0.148 W/kg; SAR(10 g) = 0.096 W/kg

Maximum value of SAR (measured) = 0.158 W/kg



P05 WCDMA V_RMC12.2K_Right Cheek_Ch4132

Communication System: WCDMA; Frequency: 826.4 MHz; Duty Cycle: 1:1

Medium: HSL835_1208 Medium parameters used: $f = 826.4$ MHz; $\sigma = 0.911$ S/m; $\epsilon_r = 43.301$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4°C; Liquid Temperature : 22.1°C

DASY5 Configuration:

- Probe: ES3DV3 - SN3268; ConvF(6.04, 6.04, 6.04); Calibrated: 2021/8/24;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1288; Calibrated: 2021/8/20
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1610
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- Area Scan (81x131x1): Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Maximum value of SAR (interpolated) = 0.255 W/kg

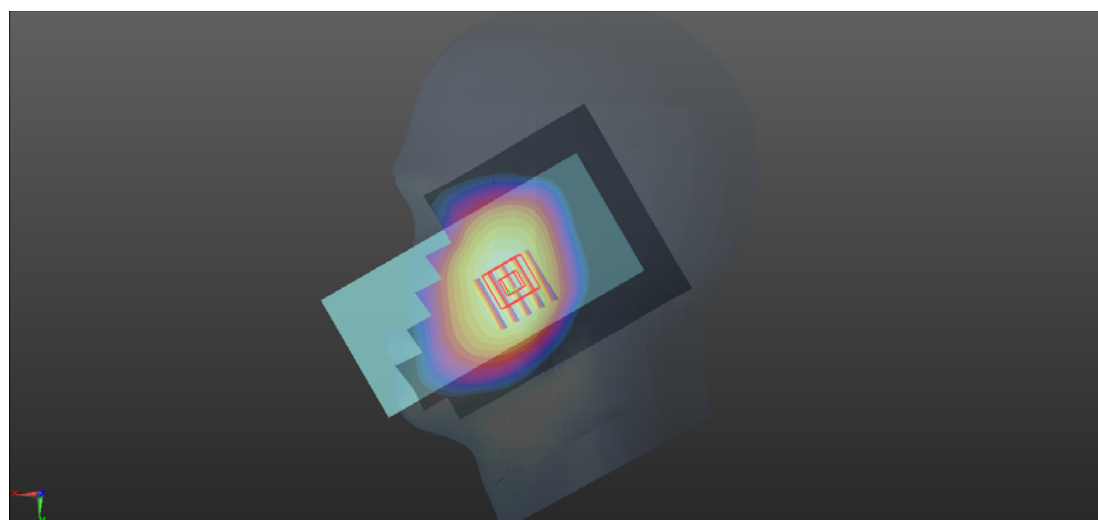
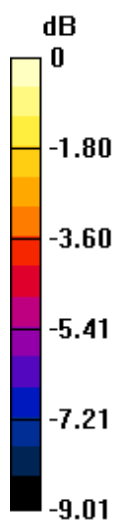
- Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 3.632 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.297 W/kg

SAR(1 g) = 0.247 W/kg; SAR(10 g) = 0.194 W/kg

Maximum value of SAR (measured) = 0.256 W/kg



0 dB = 0.256 W/kg

P06 LTE 2_QPSK20M_Right Cheek_Ch18700_1RB_OS99

Communication System: LTE; Frequency: 1860 MHz; Duty Cycle: 1:1

Medium: HSL1900_1210 Medium parameters used: $f = 1860$ MHz; $\sigma = 1.403$ S/m; $\epsilon_r = 40.172$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.3°C; Liquid Temperature : 22.1°C

DASY5 Configuration:

- Probe: ES3DV3 - SN3268; ConvF(5.19, 5.19, 5.19); Calibrated: 2021/8/24;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1288; Calibrated: 2021/8/20
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1610
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- Area Scan (101x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.179 W/kg

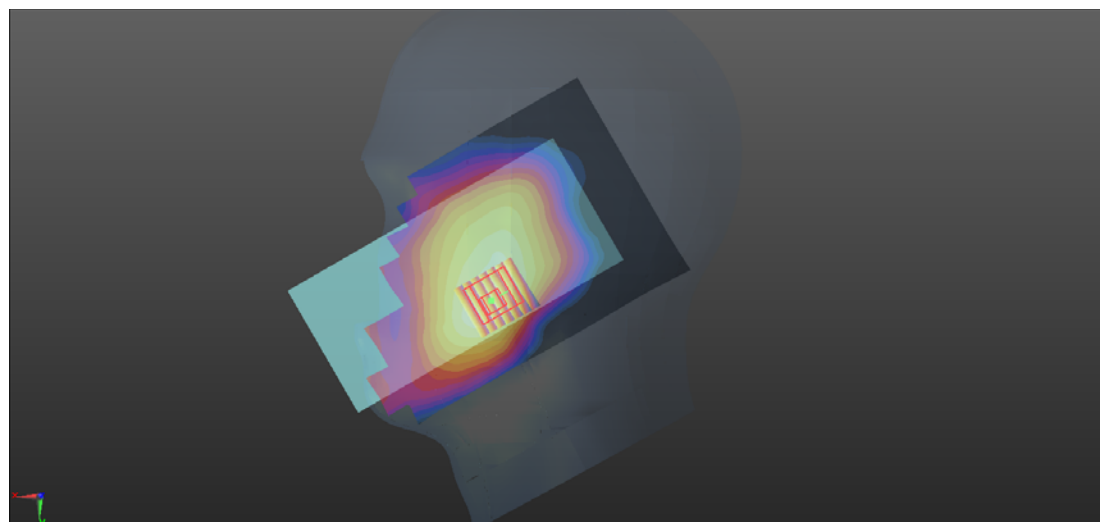
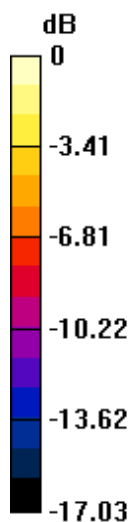
- Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.202 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.238 W/kg

SAR(1 g) = 0.163 W/kg; SAR(10 g) = 0.107 W/kg

Maximum value of SAR (measured) = 0.172 W/kg



0 dB = 0.172 W/kg

P07 LTE 5_QPSK10M_Right Cheek_Ch20450_1RB_OS0

Communication System: LTE; Frequency: 836.5 MHz; Duty Cycle: 1:1

Medium: HSL835_1208 Medium parameters used: $f = 836.5$ MHz; $\sigma = 0.899$ S/m; $\epsilon_r = 41.589$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4°C; Liquid Temperature : 22.1°C

DASY5 Configuration:

- Probe: ES3DV3 - SN3268; ConvF(6.04, 6.04, 6.04); Calibrated: 2021/8/24;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1288; Calibrated: 2021/8/20
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1610
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- Area Scan (81x131x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.232 W/kg

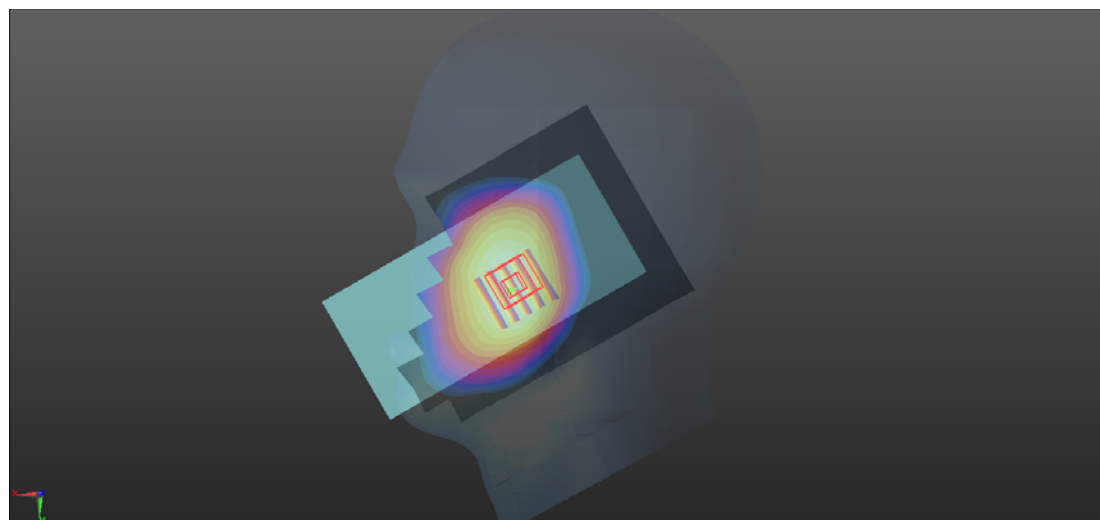
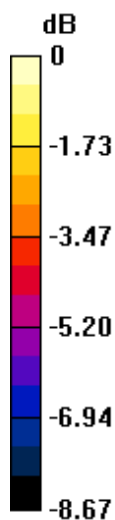
- Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.584 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.270 W/kg

SAR(1 g) = 0.226 W/kg; SAR(10 g) = 0.178 W/kg

Maximum value of SAR (measured) = 0.234 W/kg



0 dB = 0.234 W/kg

P08 LTE 7_QPSK20M_Right Cheek_Ch21100_1RB_OS0

Communication System: LTE; Frequency: 2535 MHz; Duty Cycle: 1:1

Medium: HSL2600_1211 Medium parameters used: $f = 2535$ MHz; $\sigma = 1.843$ S/m; $\epsilon_r = 39.246$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.3°C; Liquid Temperature : 22.5°C

DASY5 Configuration:

- Probe: ES3DV3 - SN3268; ConvF(4.42, 4.42, 4.42); Calibrated: 2021/8/24;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1288; Calibrated: 2021/8/20
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1610
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- Area Scan (101x161x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 0.144 W/kg

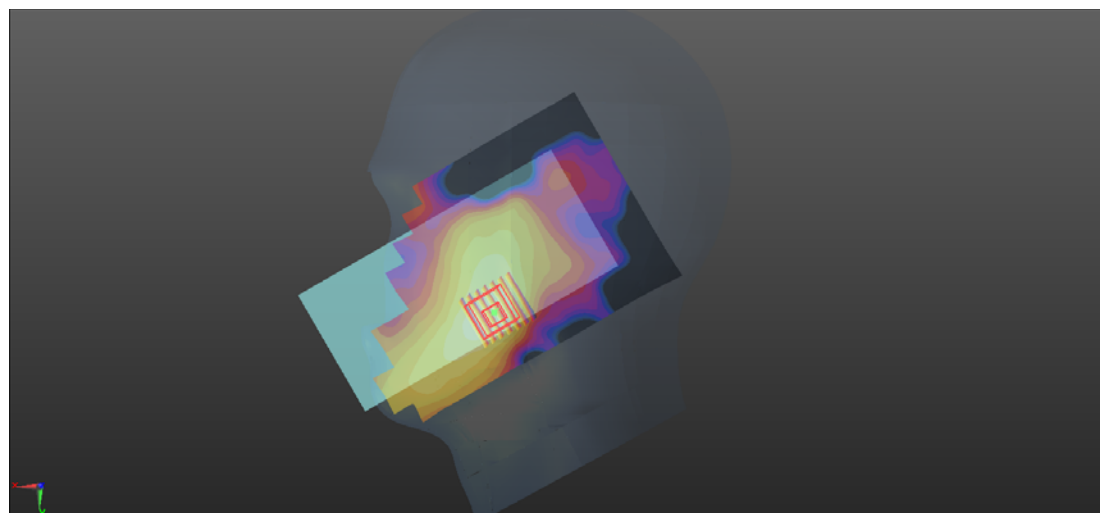
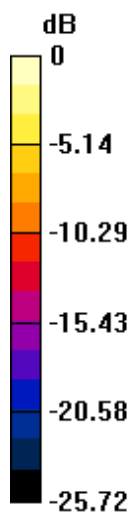
- Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 1.254 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.218 W/kg

SAR(1 g) = 0.126 W/kg; SAR(10 g) = 0.070 W/kg

Maximum value of SAR (measured) = 0.138 W/kg



0 dB = 0.138 W/kg

P09 LTE 12_QPSK10M_Right Cheek_Ch23095_1RB_OS0

Communication System: LTE; Frequency: 707.5 MHz; Duty Cycle: 1:1

Medium: HSL750_1208 Medium parameters used: $f = 707.5$ MHz; $\sigma = 0.87$ S/m; $\epsilon_r = 43.003$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.2°C; Liquid Temperature : 22.6°C

DASY5 Configuration:

- Probe: ES3DV3 - SN3268; ConvF(6.6, 6.6, 6.6); Calibrated: 2021/8/24;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1288; Calibrated: 2021/8/20
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1610
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- **Area Scan (81x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.127 W/kg

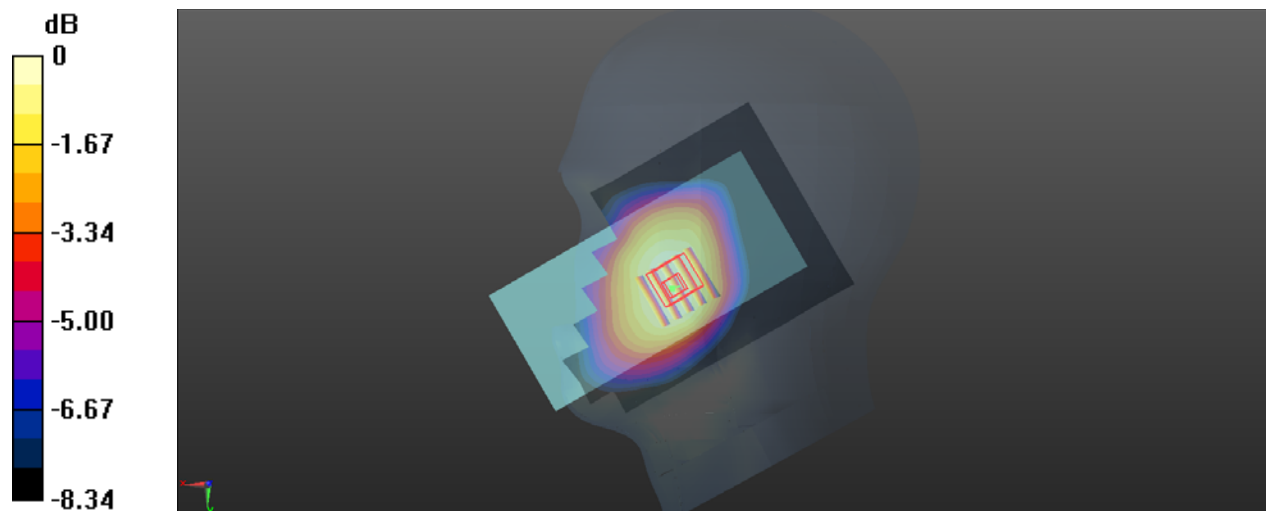
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.962 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.145 W/kg

SAR(1 g) = 0.121 W/kg; SAR(10 g) = 0.097 W/kg

Maximum value of SAR (measured) = 0.127 W/kg



0 dB = 0.127 W/kg

P10 LTE 13_QPSK10M_Right Cheek_Ch23230_1RB_OS0

Communication System: LTE; Frequency: 782 MHz; Duty Cycle: 1:1

Medium: HSL750_1208 Medium parameters used: $f = 782 \text{ MHz}$; $\sigma = 0.896 \text{ S/m}$; $\epsilon_r = 42.812$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature : 23.2°C ; Liquid Temperature : 22.6°C

DASY5 Configuration:

- Probe: ES3DV3 - SN3268; ConvF(6.6, 6.6, 6.6); Calibrated: 2021/8/24;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1288; Calibrated: 2021/8/20
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1610
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- **Area Scan (81x131x1)**: Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.219 W/kg

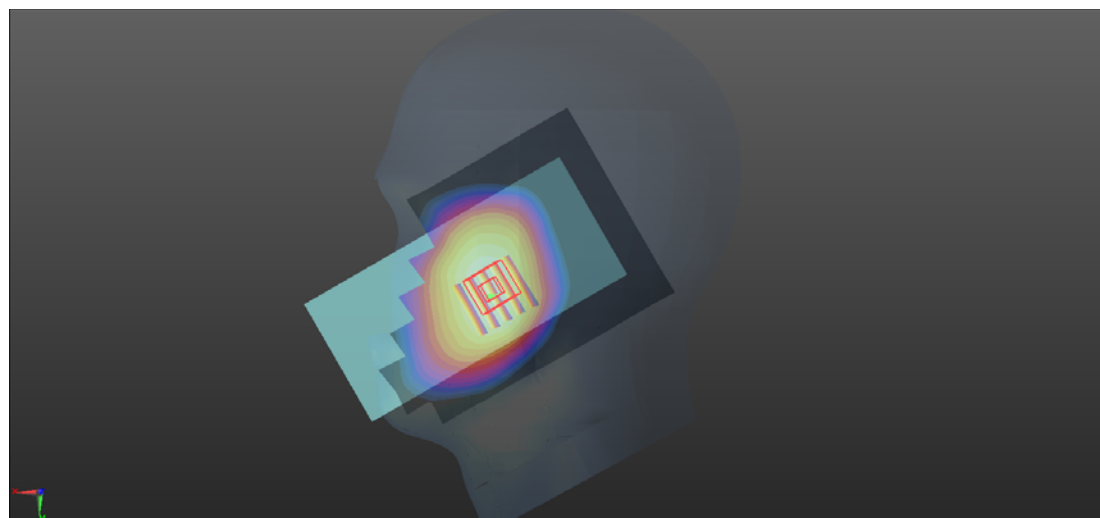
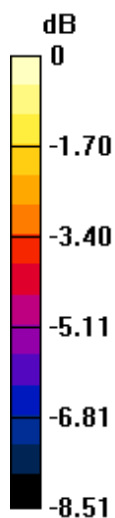
- **Zoom Scan (5x5x7)/Cube 0**: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 3.489 V/m ; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.251 W/kg

SAR(1 g) = 0.212 W/kg ; SAR(10 g) = 0.169 W/kg

Maximum value of SAR (measured) = 0.220 W/kg



0 dB = 0.220 W/kg

P11 LTE 66_QPSK20M_Right Cheek_Ch132572_1RB_OS0

Communication System: LTE; Frequency: 1770 MHz; Duty Cycle: 1:1

Medium: HSL1750_1209 Medium parameters used: $f = 1770$ MHz; $\sigma = 1.359$ S/m; $\epsilon_r = 38.462$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5°C; Liquid Temperature : 22.3°C

DASY5 Configuration:

- Probe: ES3DV3 - SN3268; ConvF(5.43, 5.43, 5.43); Calibrated: 2021/8/24;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1288; Calibrated: 2021/8/20
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1610
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- Area Scan (101x161x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

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

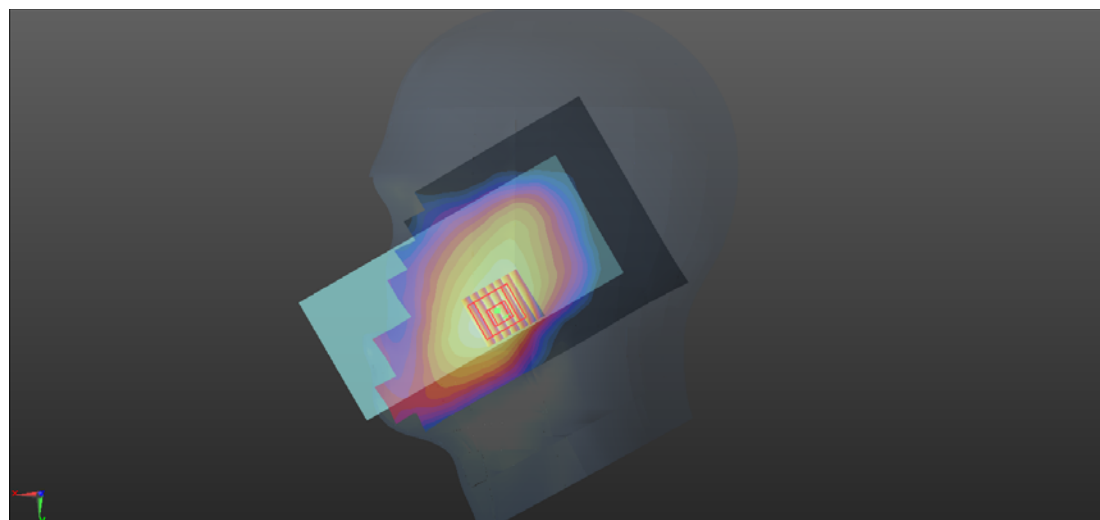
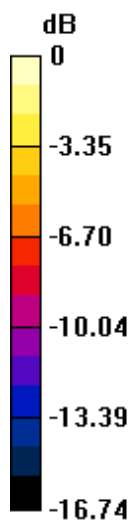
- Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.619 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.220 W/kg

SAR(1 g) = 0.148 W/kg; SAR(10 g) = 0.096 W/kg

Maximum value of SAR (measured) = 0.158 W/kg



0 dB = 0.158 W/kg

P12 WLAN2.4G_802.11b_Left Cheek_Ch1

Communication System: 802.11b; Frequency: 2412 MHz; Duty Cycle: 1:1.03

Medium: HSL2450_1211 Medium parameters used: $f = 2412$ MHz; $\sigma = 1.762$ S/m; $\epsilon_r = 39.633$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4°C; Liquid Temperature : 22.3°C

DASY5 Configuration:

- Probe: ES3DV3 - SN3268; ConvF(4.56, 4.56, 4.56); Calibrated: 2021/8/24;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1288; Calibrated: 2021/8/20
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1610
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- **Area Scan (101x161x1):** Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 0.884 W/kg

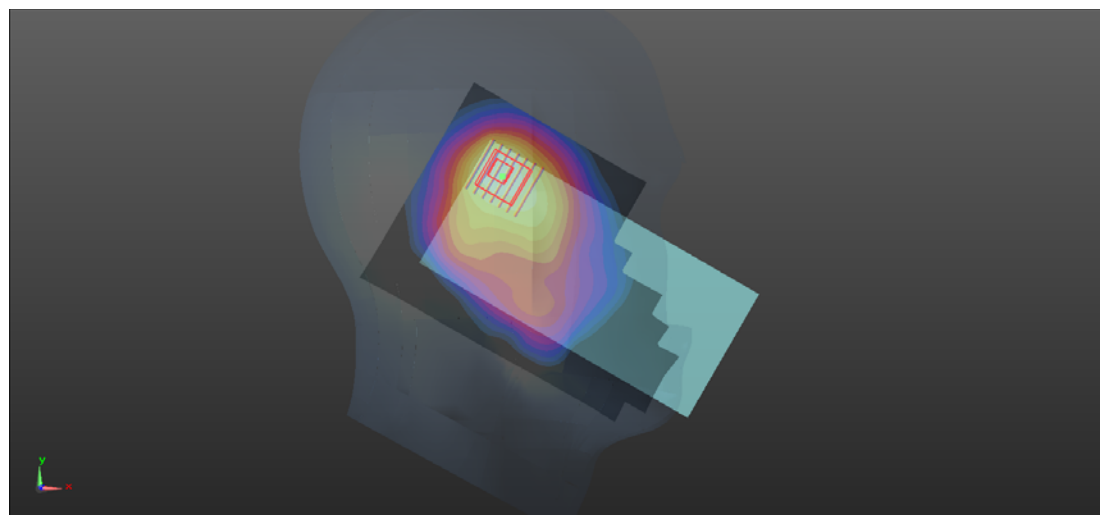
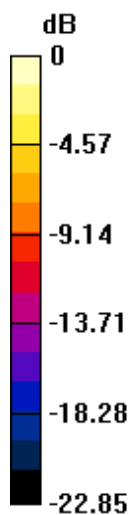
- **Zoom Scan (7x7x7)/Cube 0:** Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 11.95 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 1.65 W/kg

SAR(1 g) = 0.793 W/kg; SAR(10 g) = 0.407 W/kg

Maximum value of SAR (measured) = 0.858 W/kg



0 dB = 0.858 W/kg

P13 WLAN5G_802.11a_Left Cheek_Ch64

Communication System: 802.11a; Frequency: 5320 MHz; Duty Cycle: 1:1.12

Medium: HSL5G_1212 Medium parameters used: $f = 5320$ MHz; $\sigma = 4.795$ S/m; $\epsilon_r = 37.197$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.1°C; Liquid Temperature : 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(4.8, 4.8, 4.8); Calibrated: 2021/8/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2021/10/26
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1610
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- **Area Scan (101x181x1):** Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Maximum value of SAR (interpolated) = 1.29 W/kg

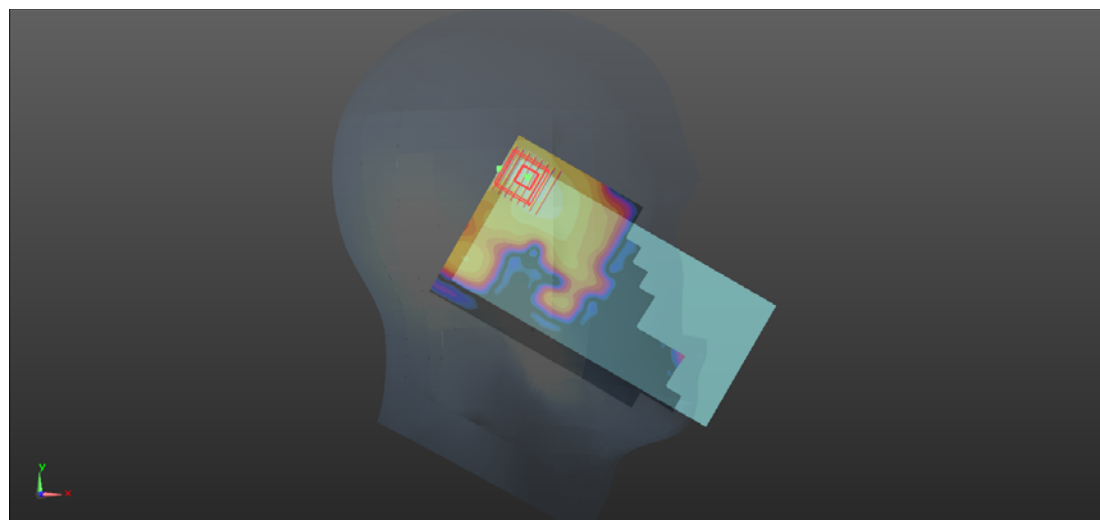
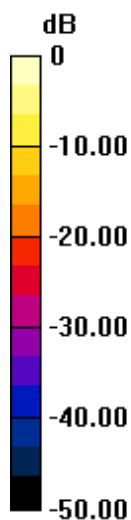
- **Zoom Scan (8x8x11)/Cube 0:** Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 5.171 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 2.38 W/kg

SAR(1 g) = 0.609 W/kg; SAR(10 g) = 0.203 W/kg

Maximum value of SAR (measured) = 1.47 W/kg



0 dB = 1.47 W/kg

P14 WLAN5G_802.11a_Left Cheek_Ch140

Communication System: 802.11a; Frequency: 5700 MHz; Duty Cycle: 1:1.12

Medium: HSL5G_1212 Medium parameters used: $f = 5700$ MHz; $\sigma = 5.168$ S/m; $\epsilon_r = 36.673$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.3°C; Liquid Temperature : 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(4.5, 4.5, 4.5); Calibrated: 2021/8/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2021/10/26
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1610
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- Area Scan (101x181x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Maximum value of SAR (interpolated) = 1.12 W/kg

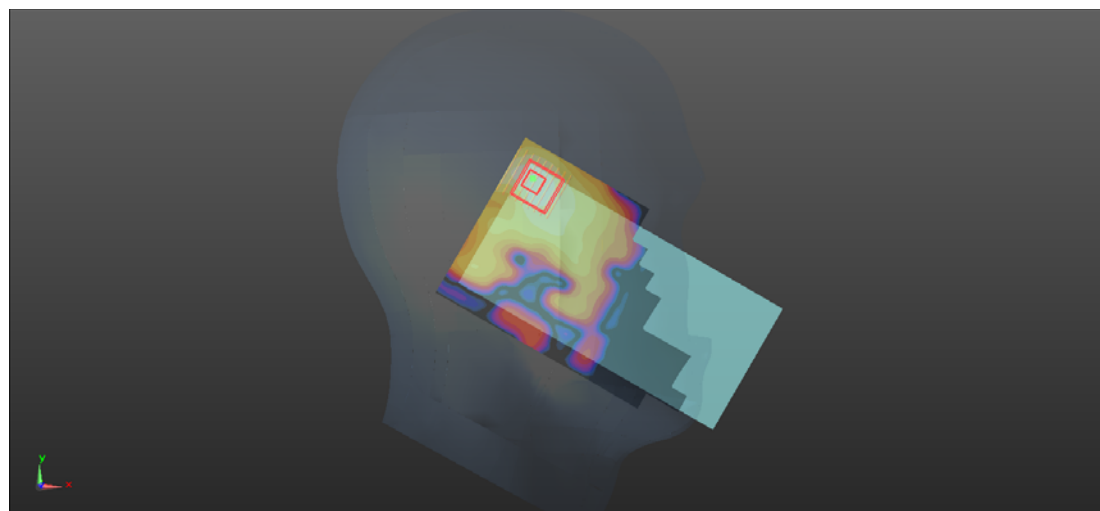
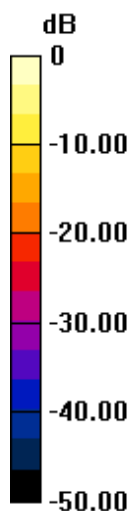
- Zoom Scan (8x9x12)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=2$ mm

Reference Value = 6.453 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 2.00 W/kg

SAR(1 g) = 0.492 W/kg; SAR(10 g) = 0.161 W/kg

Maximum value of SAR (measured) = 1.18 W/kg



0 dB = 1.18 W/kg

P15 WLAN5G_802.11a_Left Cheek_Ch165

Communication System: 802.11a; Frequency: 5825 MHz; Duty Cycle: 1:1.11

Medium: HSL5G_1212 Medium parameters used: $f = 5825$ MHz; $\sigma = 5.292$ S/m; $\epsilon_r = 36.512$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4°C; Liquid Temperature : 22.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3873; ConvF(4.49, 4.49, 4.49); Calibrated: 2021/8/25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1389; Calibrated: 2021/10/26
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1610
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- Area Scan (101x181x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 1.07 W/kg

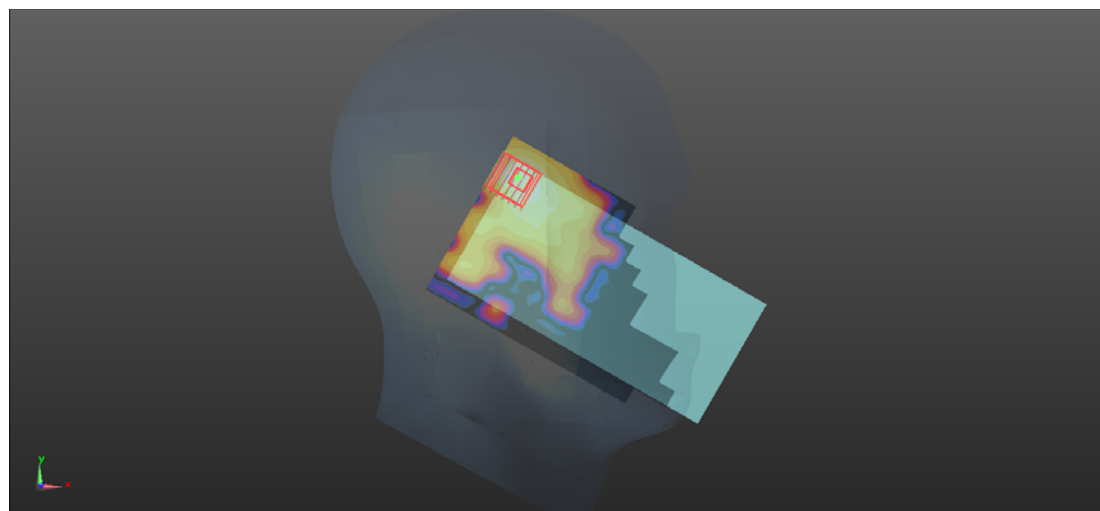
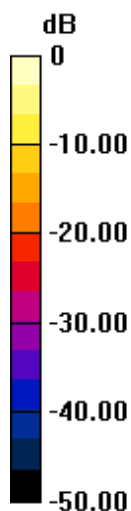
- Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 5.613 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.98 W/kg

SAR(1 g) = 0.451 W/kg; SAR(10 g) = 0.138 W/kg

Maximum value of SAR (measured) = 1.14 W/kg



0 dB = 1.14 W/kg

P16 BT_GFSK_Left Cheek_Ch0

Communication System: BT; Frequency: 2441 MHz; Duty Cycle: 1:1.29

Medium: HSL2450_1211 Medium parameters used: $f = 2441$ MHz; $\sigma = 1.781$ S/m; $\epsilon_r = 39.584$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4°C; Liquid Temperature : 22.3°C

DASY5 Configuration:

- Probe: ES3DV3 - SN3268; ConvF(4.56, 4.56, 4.56); Calibrated: 2021/8/24;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1288; Calibrated: 2021/8/20
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1610
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- **Area Scan (101x161x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.0569 W/kg

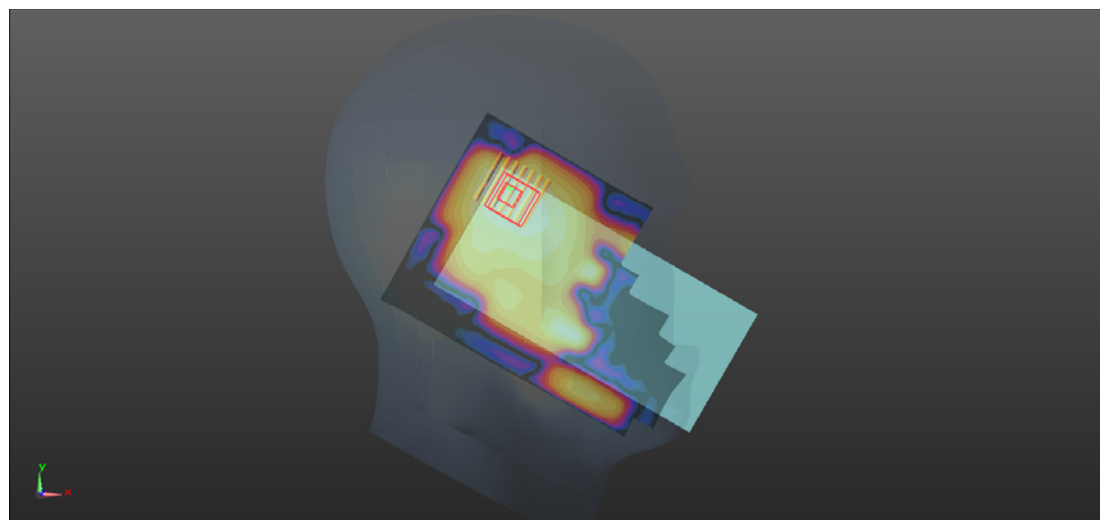
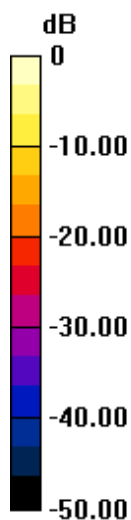
- **Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.086 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.0970 W/kg

SAR(1 g) = 0.047 W/kg; SAR(10 g) = 0.024 W/kg

Maximum value of SAR (measured) = 0.0508 W/kg



0 dB = 0.0508 W/kg

P17 GSM850_GPRS10_Rear Face_1cm_Ch128

Communication System: GPRS10; Frequency: 824.2 MHz; Duty Cycle: 1:4.15

Medium: HSL835_1208 Medium parameters used: $f = 824.2$ MHz; $\sigma = 0.897$ S/m; $\epsilon_r = 41.606$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4°C; Liquid Temperature : 22.1°C

DASY5 Configuration:

- Probe: ES3DV3 - SN3268; ConvF(6.04, 6.04, 6.04); Calibrated: 2021/8/24;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1288; Calibrated: 2021/8/20
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1610
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

- **Area Scan (81x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.303 W/kg

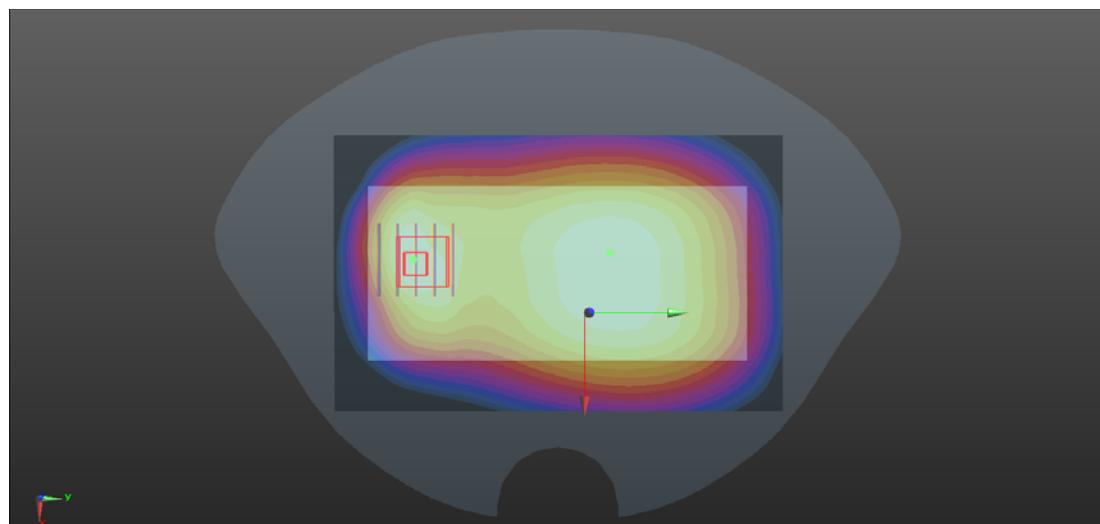
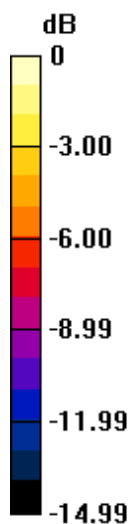
- **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.49 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 0.452 W/kg

SAR(1 g) = 0.271 W/kg; SAR(10 g) = 0.163 W/kg

Maximum value of SAR (measured) = 0.297 W/kg



0 dB = 0.297 W/kg