Conducted Power of LTE Band 4(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					20025	20175	20325
15MHz	QPSK	1	0	0	23.44	22.85	22.93
			37	0	23.63	22.97	22.92
			74	0	23.66	22.85	22.81
		36	0	1	22.43	21.84	22.01
			16	1	22.66	21.83	21.87
			35	1	22.65	21.97	21.99
		75	0	1	22.74	22.08	22.07
	16QAM	1	0	1	22.60	22.00	21.98
			37	1	22.45	21.85	21.89
			74	1	22.66	21.81	22.00
		36	0	2	22.61	21.98	21.87
			16	2	22.44	21.83	21.99
			35	2	22.69	21.86	21.99
		75	0	2	21.67	21.08	21.06
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					20050	20175	20300
20MHz	QPSK	1	0	0	22.89	23.24	22.26
			49	0	23.23	22.22	22.64
			99	0	23.00	22.50	22.31
		50	0	1	22.06	21.46	21.34
			25	1	22.11	21.43	21.32
			49	1	22.08	21.48	21.49
		100	0	1	22.07	21.42	21.47
	16QAM	1	0	1	21.99	21.24	21.40
			49	1	22.27	21.67	21.44
			99	1	21.90	21.25	21.58
		50	0	2	21.12	20.54	20.42
			25	2	21.12	20.49	20.39
			49	2	21.13	20.51	20.54
		100	0	2	21.09	20.53	20.45

Conducted Power of LTE Band 5(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					20407	20525	20643
1.4MHz	QPSK	1	0	0	23.22	22.62	22.74
			2	0	**23.39**	22.58	22.78
			5	0	23.24	22.78	22.80
		3	0	0	23.24	22.69	22.79
			1	0	23.27	22.68	22.80
			2	0	23.27	22.60	22.82
		6	0	1	22.19	21.68	21.78
	16QAM	1	0	1	21.97	21.44	21.78
			2	1	22.16	21.66	21.49
			5	1	21.94	21.45	21.56
		3	0	1	22.07	21.48	21.62
			1	1	22.08	21.51	21.60
			2	1	22.08	21.51	21.62
		6	0	2	21.08	20.61	20.58
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					20415	20525	20635
3MHz	QPSK	1	0	0	23.18	22.61	22.86
			7	0	23.12	22.63	22.77
			14	0	23.21	22.65	22.76
		8	0	1	22.18	21.72	21.75
			4	1	22.22	21.60	21.66
			7	1	22.13	21.63	21.76
		15	0	1	22.16	21.62	21.67
	16QAM	1	0	1	22.09	21.69	21.56
			7	1	22.15	21.54	21.59
			14	1	22.12	21.67	21.54
		8	0	2	21.11	20.67	20.72
			4	2	21.14	20.62	20.70
			7	2	21.14	20.59	20.67
		15	0	2	21.15	20.61	20.65

Conducted Power of LTE Band 5(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					20425	20525	20625
5MHz	QPSK	1	0	0	23.18	22.52	22.67
			12	0	23.25	22.67	22.76
			24	0	23.11	22.76	22.85
		12	0	1	22.14	21.52	21.78
			6	1	22.15	21.57	21.75
			11	1	22.09	21.63	21.67
		25	0	1	22.17	21.62	21.78
	16QAM	1	0	1	22.09	21.41	21.79
			12	1	22.07	21.61	21.73
			24	1	21.97	21.53	21.68
		12	0	2	21.14	20.67	20.80
			6	2	21.16	20.59	20.82
			11	2	21.14	20.59	20.72
		25	0	2	21.15	20.63	20.70
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					20450	20525	20600
10MHz	QPSK	1	0	0	22.44	23.36	22.91
			24	0	22.49	22.68	22.66
			49	0	22.39	22.68	22.71
		25	0	1	21.40	21.67	21.79
			12	1	21.41	21.49	21.69
			25	1	21.42	21.53	21.77
		50	0	1	21.35	21.54	21.68
	16QAM	1	0	1	21.15	21.68	21.72
			24	1	21.12	21.34	21.46
			49	1	21.24	21.66	21.46
		25	0	2	20.41	20.66	20.78
			12	2	20.44	20.41	20.75
			25	2	20.43	20.48	20.71
		50	0	2	20.39	20.50	20.69

Conducted Power of LTE Band 7 (dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 20775	Channel 21100	Channel 21425
5MHz	QPSK	1	0	0	21.46	22.75	21.96
			12	0	21.37	23.32	22.04
			24	0	21.48	23.19	21.90
		12	0	1	20.29	22.17	20.95
			6	1	20.33	22.17	20.96
			13	1	21.38	22.15	20.94
		25	0	1	21.38	22.20	20.98
	16QAM	1	0	1	20.40	22.13	20.91
			12	1	20.39	22.25	20.76
			24	1	20.31	22.20	20.81
		12	0	2	19.27	21.20	19.88
			6	2	20.41	21.21	19.90
			13	2	19.30	21.20	19.89
		25	0	2	20.39	21.14	19.94
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 20800	Channel 21100	Channel 21400
10MHz	QPSK	1	0	0	22.89	22.01	21.64
			24	0	22.88	22.08	21.82
			49	0	22.89	22.10	21.81
		25	0	1	21.83	21.24	20.50
			12	1	21.79	21.25	20.85
			25	1	21.91	21.25	20.73
		50	0	1	21.80	21.25	20.78
	16QAM	1	0	1	21.82	22.27	21.85
			24	1	21.79	22.20	21.50
			49	1	21.93	22.31	20.69
		25	0	2	20.87	22.21	20.60
			12	2	20.81	22.28	20.94
			25	2	20.79	22.29	20.53
		50	0	2	20.82	22.22	21.90

Conducted Power of LTE Band 7 (dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 20825	Channel 21100	Channel 21375
15MHz	QPSK	1	0	0	22.70	23.10	21.37
			37	0	22.74	22.77	21.77
			74	0	22.75	23.14	21.46
		37	0	1	21.65	22.08	20.30
			16	1	21.74	22.26	20.29
			35	1	21.74	22.09	20.31
		75	0	1	21.88	22.32	20.45
	16QAM	1	0	1	21.65	22.10	20.43
			37	1	21.69	22.26	20.40
			74	1	21.73	22.00	20.29
		37	0	2	21.73	22.06	20.42
			16	2	21.64	22.16	20.33
			35	2	21.73	22.23	20.33
		75	0	2	20.78	21.29	19.58
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 20850	Channel 21100	Channel 21350
20MHz	QPSK	1	0	0	23.06	23.03	23.05
			49	0	22.96	22.93	21.70
			99	0	22.66	**23.41**	21.81
		50	0	1	21.68	22.20	20.89
			25	1	21.66	22.26	20.79
			49	1	21.86	22.25	20.93
		100	0	1	21.76	22.15	20.66
	16QAM	1	0	1	21.76	21.98	20.83
			49	1	21.48	22.00	20.49
			99	1	21.85	22.40	20.64
		50	0	2	20.85	21.14	19.90
			25	2	20.69	21.21	19.86
			49	2	20.74	21.20	19.68
		100	0	2	20.78	21.16	19.79

The following tests were conducted according to the test requirements outlined in section 6.2 of the 3GPP TS36.101 specification.
UE Power Class: 3 (23 +/- 2dBm). The allowed Maximum Power Reduction (MPR) for the maximum output power due to higher order modulation and transmit bandwidth configuration (resource blocks) is specified in Table 6.2.3.3-1 of the 3GPP TS36.101.

Table 6.2.3.3-1 Maximum Power Reduction (MPR) for Power class3

Modulation	Maximum Power Reduction (MPR) for Power[RB]						MPR(dB)
	1.4MHz	3MHz	5MHz	10MHz	15MHz	20MHz	
QPSK	＞5	＞4	＞8	＞12	＞16	＞18	≤1
16QAM	≤5	≤4	≤8	≤12	≤16	≤18	≤1
16QAM	＞5	＞4	＞8	＞12	＞16	＞18	≤2

The allowed A-MPR values specified below in Table 6.2.4.3-1 of 3GPP TS36.101 are in addition to the allowed MPR requirements. All the measurements below were performed with A-MPR disabled, by using Network Signaling Value of “NS_01”.3

Table 6.2.4.3-1: Additional Maximum Power Reduction (A-MPR) / Spectrum Emission requirements

Network Signaling value	Requirements (sub-clause)	E-UTRA Band	Channel bandwidth (MHz)	Resources Blocks (N_{RB})	A-MPR (dB)
NS_01	6.6.2.1.1	Table 5.2-1	1.4,3,5,10,15,20	Table 5.4.2-1	N/A
NS_03	6.6.2.2.3.1	2,4,10, 23, 25,35,36	3	>5	≤ 1
			5	>6	≤ 1
			10	>6	≤ 1
			15	>8	≤ 1
			20	>10	≤ 1
NS_04	6.6.2.2.3.2	41	5	>6	≤1
			10, 15, 20	Table 6.2.4.3-4	
NS_05	6.6.3.3.3.1	1	10,15,20	≥ 50	≤ 1
NS_06	6.6.2.2.3.3	12, 13, 14, 17	1.4, 3, 5, 10	Table 5.4.2-1	N/A
NS_07	6.6.2.2.3.3 6.6.3.3.3.2	13	10	Table 6.2.4.3-2	Table 6.2.4.3-2
NS_08	6.6.3.3.3.3	19	10, 15	> 44	≤ 3
NS_09	6.6.3.3.3.4	21	10, 15	> 40	≤ 1
				> 55	≤ 2
NS_10		20	15, 20	Table 6.2.4.3-3	Table 6.2.4.3-3
NS_11	6.6.2.2.1 6.6.3.3.13	231	1.4, 3, 5, 10,15,20	Table 6.2.4.3-5	Table 6.2.4.3-5
NS_12	6.6.3.3.5	26	1.4, 3, 5	Table 6.2.4.3-6	Table 6.2.4.3-6
NS_13	6.6.3.3.6	26	5	Table 6.2.4.3-7	Table 6.2.4.3-7
NS_14	6.6.3.3.7	26	10, 15	Table 6.2.4.3-8	Table 6.2.4.3-8
NS_15	6.6.3.3.8	26	1.4, 3, 5, 10, 15	Table 6.2.4.3-9 Table 6.2.4.3-10	Table 6.2.4.3-9, Table 6.2.4.3-10
NS_16	6.6.3.3.9	27	3, 5, 10	Table 6.2.4.3-11, Table 6.2.4.3-12, Table 6.2.4.3-13	
NS_17	6.6.3.3.10 6.6.3.3.11	28 28	5, 10	Table 5.4.2-1	N/A
			5	≥ 2	≤ 1
NS_18			10, 15, 20	≥ 1	≤ 4
NS_19			10, 15, 20	Table 6.2.4.3-15	Table 6.2.4.3-15
NS_20			5, 10, 15, 20	Table 6.2.4.3-14	Table 6.2.4.3-14
…					
NS_20	-	-	-	-	-

WIFI

Mode	Data Rate (Mbps)	Channel	Frequency(MHz)	Avg. Burst Power(dBm)
802.11b	1	01	2412	13.06
		06	2437	**13.48**
		11	2462	13.37
802.11g	6	01	2412	8.97
		06	2437	11.46
		11	2462	11.28
802.11n(20)	6.5	01	2412	9.32
		06	2437	11.58
		11	2462	11.33
802.11n(40)	13.5	03	2422	8.84
		06	2437	9.99
		09	2452	10.07

Bluetooth_V4.0(BR/EDR)

Modulation	Channel	Frequency(MHz)	Peak Power (dBm)
GFSK	0	2402	2.696
	39	2441	**2.732**
	78	2480	1.349
π /4-DQPSK	0	2402	1.741
	39	2441	1.920
	78	2480	0.688
8-DPSK	0	2402	1.825
	39	2441	2.079
	78	2480	0.800

Bluetooth_V4.0(BLE)

Modulation	Channel	Frequency(MHz)	Peak Power (dBm)
GFSK	0	2402	**2.651**
	19	2440	2.620
	39	2480	1.366

5GHz WIFI

Mode	channel	Frequency	Power(dBm)							
			Data Rate(bps)							
			6M	9M	12M	18M	24M	36M	48M	54M
802.11a	36	5180	10.01	9.84	9.78	9.69	9.52	9.45	9.30	9.24
	40	5200	10.26	10.11	9.95	9.88	9.82	9.72	9.56	9.51
	44	5220	10.20	10.08	9.86	9.82	9.76	9.59	9.49	9.41
	48	5240	10.74	10.59	10.46	10.36	10.27	10.15	10.07	9.91
	149	5745	8.82	8.72	8.57	8.45	8.33	8.24	8.13	8.07
	157	5785	8.23	8.11	7.97	7.83	7.72	7.66	7.52	7.44
	165	5825	7.82	7.63	7.52	7.45	7.30	7.20	7.10	7.03
			MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
802.11n (20)	36	5180	9.15	8.98	8.87	8.81	8.67	8.56	8.45	8.38
	40	5200	10.45	10.29	10.18	10.09	9.99	9.87	9.72	9.70
	44	5220	10.36	10.25	10.06	10.00	9.89	9.76	9.66	9.58
	48	5240	10.85	10.71	10.56	10.48	10.36	10.27	10.19	10.03
	149	5745	8.78	8.66	8.49	8.38	8.29	8.20	8.04	8.01
	157	5785	8.13	7.98	7.88	7.76	7.63	7.59	7.41	7.34
	165	5825	7.69	7.50	7.40	7.33	7.21	7.05	7.02	6.90
			MCS0	MCS0	MCS0	MCS0	MCS0	MCS0	MCS0	MCS0
802.11n (40)	38	5190	10.92	10.76	10.68	10.60	10.43	10.31	10.21	10.12
	46	5230	**11.19**	11.04	10.89	10.86	10.71	10.64	10.48	10.40
	151	5755	9.47	9.34	9.13	9.08	9.00	8.85	8.76	8.69
	159	5795	8.91	8.74	8.61	8.55	8.42	8.35	8.21	8.09
			MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
802.11ac (20)	36	5180	10.13	9.96	9.87	9.79	9.65	9.52	9.43	9.35
	40	5200	10.21	10.05	9.89	9.85	9.75	9.68	9.51	9.43
	44	5220	10.19	10.04	9.88	9.82	9.76	9.60	9.50	9.43
	48	5240	10.93	10.76	10.61	10.56	10.47	10.36	10.27	10.14
	149	5745	8.88	8.73	8.62	8.46	8.41	8.27	8.17	8.13
	157	5785	8.26	8.13	8.02	7.85	7.75	7.71	7.56	7.47
	165	5825	7.80	7.63	7.51	7.45	7.28	7.16	7.12	6.99
			MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
802.11ac (40)	38	5190	10.66	10.49	10.39	10.29	10.19	10.09	9.98	9.88
	46	5230	10.35	10.20	10.03	10.00	9.90	9.79	9.63	9.60
	151	5755	**9.49**	9.36	9.20	9.10	9.04	8.86	8.77	8.71
	159	5795	9.06	8.93	8.77	8.71	8.57	8.50	8.41	8.28

According to 447498 D01 General RF Exposure Guidance v06
The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:
[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] ·[√f(GHz)] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.
Where f(GHz) is the RF channel transmit frequency in GHz
Power and distance are rounded to the nearest mW and mm before calculation

Bluetooth:

P_t= 2.732dBm=1.88mW

The value of the Maximum Average Power P_t is referred to the test report of the FCC Part 15.247.

The result for RF exposure evaluation SAR=(1.88mW/5mm) .[√2.441GHz)]=0.586<3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

CONCLUSION
The SAR evaluation for Bluetooth is not required.

13. TEST RESULTS

13.1. SAR Test Results Summary

13.1.1. Test position and configuration

Head SAR was performed with the device configured in the positions according to IEEE 1528-2013, Body-worn and 4 Edges SAR was performed with the device 5mm from the phantom.

13.1.2. Operation Mode

1. Per KDB 447498 D01 v06 ,for each exposure position, if the highest 1-g SAR is ≤ 0.8 W/kg, testing for low and high channel is optional.
2. Per KDB 865664 D01 v01r04,for each frequency band, if the measured SAR is ≥0.8W/Kg, testing for repeated SAR measurement is required , that the highest measured SAR is only to be tested. When the SAR results are near the limit, the following procedures are required for each device to verify these types of SAR measurement related variation concerns by repeating the highest measured SAR configuration in each frequency band.
   (1) When the original highest measured SAR is ≥0.8W/Kg, repeat that measurement once.
   (2) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is >1.20 or when the original or repeated measurement is ≥1.45 W/Kg.
   (3) Perform a third repeated measurement only if the original, first and second repeated measurement is ≥1.5 W/Kg and ratio of largest to smallest SAR for the original, first and second measurement is ≥ 1.20.
3. Body-worn exposure conditions are intended to voice call operations, therefore GSM voice call mode is selected to be test.
4. Per KDB 648474 D04 v01r03,when the reported SAR for a body-worn accessory measured without a headset connected to the handset is ≤1.2W/Kg, SAR testing with a headset connected is not required.
5. Per KDB 248227 D01v02r02,for 2.4GHz 802.11g/n SAR testing is not required when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤1.2W/kg.
6. Per KDB 248227 D01 v02r02 Chapter 5.3.4, SAR measurement requirements for the remaining 802.11 transmission mode configurations that have not been tested in the initial test configuration are determined separately for each standalone and aggregated frequency band, in each exposure condition, according to the maximum output power specified for production units. The initial test position procedure is applied to next to the ear, UMPC mini-tablet and hotspot mode configurations. When the same maximum output power is specified for multiple transmission modes, the procedures in 5.3.2 are applied to determine the test configuration. Additional power measurements may be required to determine if SAR measurements are required for subsequent highest output power channels in a subsequent test configuration. The subsequent test configuration and SAR measurement procedures are described in the following.
   (1) When SAR test exclusion provisions of KDB Publication 447498 D01 are applicable and SAR measurement is not required for the initial test configuration, SAR is also not required for the next highest maximum output power transmission mode subsequent test configuration(s) in that frequency band or aggregated band and exposure configuration.
   (2) When the highest reported SAR for the initial test configuration (when applicable, include subsequent highest output channels), according to the initial test position or fixed exposure position requirements, is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for that subsequent test configuration.

(3) When the specified maximum output power is same for both UNII 1 and UNII 2A,begin SAR measurements in UNII 2A with the channel with the highest measured output power. If the report SAR for UNII 2A is <1.2W/Kg, SAR is nor required for UNII 1;otherwise treat the remaining bands separately and test them independently for SAR.

(4) When the specified maximum output power different between UNII 1 and UNII 2A,begin SAR with the band that has the higher specified maximum output. If the highest reported SAR for the band with the highest specified power is ≤1.2W/Kg, testing for the band with the lower specialized output power is not required; otherwise test is remaining separately for SAR;

7. Per KDB 941225 D06 V02r01, When the same wireless mode transmission configurations for voice and data are required for SAR measurements, the more conservative configuration with a smaller separation distance should be tested for the overlapping SAR configurations.
8. Maximum Scaling SAR in order to calculate the Maximum SAR values to test under the standard Peak Power, Calculation method is as follows:
   Maximum Scaling SAR =tested SAR (Max.) ×[maximum turn-up power (mw)/ maximum measurement output power(mw)]
9. Proximity sensor, just for avoiding the wrong operation in the phone screen when call, and has no influence on output power or SAR result
10. Per KDB 941225 D05v02r03, start with the largest channel bandwidth and measure SAR for QPSK with 1RB allocation using the RB offset and required test channel combination with highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
11. Per KDB 941125 D05v02r03, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
12. Per KDB 941125 D05v02r03. For QPSK with 100% RB allocation. SAR is not required when the highest maximum output power for 100% RB allocation is less than the highest maximum output power in 50% and 1RB allocation and the highest reported SAR is >1.45 W/Kg, the remaining required test channels must also be tested.
13. Per KDB 941125 D05v02r03. 16QAM output power for each RB allocation configuration is not 1/2 dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is ≤1.45W/Kg, Per KDB 941225 D05v02r02, 16QAM SAR testing is not required.
14. Per KDB 941125 D05v02r03. Smaller bandwidth output power for each RB allocation configuration is >not 1/2 dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤1.45W/Kg. Per KDB 941125 D05v02r03, smaller bandwidth SAR testing is not required.

13.1.3. Test Result

SAR MEASUREMENT									
Depth of Liquid (cm):>15				Relative Humidity (%): 56.3					
Product: Smart phone									
Test Mode: GSM850 with GMSK modulation									
Position	**Mode**	**Ch.**	**Fr. (MHz)**	**Power Drift (<±0.2 dB)**	**SAR (1g) (W/kg)**	**Max. Tune-up Power (dBm)**	**Meas. output Power (dBm)**	**Scaled SAR (W/Kg)**	**Limit (W/kg)**
SIM 1 Card									
Left Cheek	voice	128	824.2	-0.01	0.786	33.20	32.85	0.852	1.6
Left Cheek	voice	190	836.6	-0.03	0.918	33.20	33.13	0.933	1.6
Left Cheek	voice	251	848.8	0.17	0.967	33.20	33.06	0.999	1.6
Left Tilt	voice	190	836.6	0.03	0.368	33.20	33.13	0.374	1.6
Right Cheek	voice	128	824.2	0.02	0.813	33.20	32.85	0.881	1.6
Right Cheek	voice	190	836.6	-0.04	0.884	33.20	33.13	0.898	1.6
Right Cheek	voice	251	848.8	-0.02	**0.970**	33.20	33.06	**1.002**	1.6
Right Tilt	voice	190	836.6	-0.01	0.364	33.20	33.13	0.370	1.6
Body back	voice	190	836.6	-0.04	0.663	33.20	33.13	0.674	1.6
Body front	voice	190	836.6	-0.08	**0.698**	33.20	33.13	**0.709**	1.6
Body back	GPRS-3 slot	128	824.2	-0.16	0.874	30.60	30.53	0.888	1.6
Body back	GPRS-3 slot	190	836.6	-0.16	0.929	30.60	30.42	0.968	1.6
Body back	GPRS-3 slot	251	848.8	-0.12	0.989	30.60	30.58	0.994	1.6
Body front	GPRS-3 slot	128	824.2	-0.04	0.955	30.60	30.53	0.971	1.6
Body front	GPRS-3 slot	190	836.6	0.03	**1.12**	30.60	30.42	**1.167**	1.6
Body front	GPRS-3 slot	251	848.8	0.07	1.06	30.60	30.58	1.065	1.6
Edge 2(Right)	GPRS-3 slot	190	836.6	-0.09	0.576	30.60	30.42	0.600	1.6
Edge 3(Bottom)	GPRS-3 slot	190	836.6	-0.16	0.144	30.60	30.42	0.150	1.6
Edge 4(Left)	GPRS-3 slot	190	836.6	-0.18	0.654	30.60	30.42	0.682	1.6

Note:
· When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
·The test separation for body back, body front and 4 Edges is 5mm of all above table.

SAR MEASUREMENT									
Depth of Liquid (cm):>15				Relative Humidity (%): 52.2					
Product: Smart phone									
Test Mode: PCS1900 with GMSK modulation									
Position	**Mode**	**Ch.**	**Fr. (MHz)**	**Power Drift (<±0.2 dB)**	**SAR (1g) (W/kg)**	**Max. Tune-up Power (dBm)**	**Meas. output Power (dBm)**	**Scaled SAR (W/Kg)**	**Limit (W/kg)**
SIM 1 Card									
Left Cheek	voice	661	1880.0	0.19	0.187	28.50	28.03	0.208	1.6
Left Tilt	voice	661	1880.0	0.04	0.080	28.50	28.03	0.089	1.6
Right Cheek	voice	661	1880.0	0.16	**0.240**	28.50	28.03	**0.267**	1.6
Right Tilt	voice	661	1880.0	-0.01	0.142	28.50	28.03	0.158	1.6
Body back	voice	661	1880.0	-0.03	0.312	28.50	28.03	0.348	1.6
Body front	voice	661	1880.0	0.04	**0.342**	28.50	28.03	**0.381**	1.6
Body back	GPRS-2 slot	661	1880.0	-0.13	0.553	26.40	26.22	0.576	1.6
Body front	GPRS-2 slot	661	1880.0	-0.11	0.560	26.40	26.22	0.584	1.6
Edge 2(Right)	GPRS-2 slot	661	1880.0	-0.08	0.281	26.40	26.22	0.293	1.6
Edge 3(Bottom)	GPRS-2 slot	661	1880.0	0.08	**0.570**	26.40	26.22	**0.594**	1.6
Edge 4(Left)	GPRS-2 slot	661	1880.0	0.09	0.213	26.40	26.22	0.222	1.6

Note:
· When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
·The test separation for body back, body front and 4 Edges is 5mm of all above table.

SAR MEASUREMENT									
Depth of Liquid (cm):>15				Relative Humidity (%): 52.2					
Product: Smart phone									
Test Mode: WCDMA Band II with QPSK modulation									
Position	**Mode**	**Ch.**	**Fr. (MHz)**	**Power Drift (<±0.2 dB)**	**SAR (1g) (W/kg)**	**Max. Tune-up Power (dBm)**	**Meas. output Power (dBm)**	**Scaled SAR (W/Kg)**	**Limit (W/kg)**
Left Cheek	RMC 12.2kbps	9400	1880	0.17	0.341	20.90	20.51	0.373	1.6
Left Tilt	RMC 12.2kbps	9400	1880	-0.02	0.199	20.90	20.51	0.218	1.6
Right Cheek	RMC 12.2kbps	9400	1880	0.12	**0.411**	20.90	20.51	**0.450**	1.6
Right Tilt	RMC 12.2kbps	9400	1880	-0.15	0.213	20.90	20.51	0.233	1.6
Body back	RMC 12.2kbps	9400	1880	-0.14	0.480	20.90	20.51	0.525	1.6
Body front	RMC 12.2kbps	9400	1880	0.04	**0.485**	20.90	20.51	**0.531**	1.6
Edge 2(Right)	RMC 12.2kbps	9400	1880	-0.16	0.256	20.90	20.51	0.280	1.6
Edge 3(Bottom)	RMC 12.2kbps	9400	1880	0.12	0.320	20.90	20.51	0.350	1.6
Edge 4(Left)	RMC 12.2kbps	9400	1880	-0.12	0.062	20.90	20.51	0.068	1.6

Note:
· When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
·The test separation for body back, body front and 4 Edges is 5mm of all above table.

SAR MEASUREMENT									
Depth of Liquid (cm):>15				Relative Humidity (%): 56.3					
Product: Smart phone									
Test Mode: WCDMA Band V with QPSK modulation									
Position	**Mode**	**Ch.**	**Fr. (MHz)**	**Power Drift (<±0.2 dB)**	**SAR (1g) (W/kg)**	**Max. Tune-up Power (dBm)**	**Meas. output Power (dBm)**	**Scaled SAR (W/Kg)**	**Limit (W/kg)**
Left Cheek	RMC 12.2kbps	4183	836.6	-0.04	**0.686**	23.00	22.69	**0.737**	1.6
Left Tilt	RMC 12.2kbps	4183	836.6	-0.05	0.460	23.00	22.69	0.494	1.6
Right Cheek	RMC 12.2kbps	4183	836.6	0.01	0.655	23.00	22.69	0.703	1.6
Right Tilt	RMC 12.2kbps	4183	836.6	-0.04	0.335	23.00	22.69	0.360	1.6
Body back	RMC 12.2kbps	4183	836.6	0.03	0.471	23.00	22.69	0.506	1.6
Body front	RMC 12.2kbps	4183	836.6	0.01	**0.531**	23.00	22.69	**0.570**	1.6
Edge 2(Right)	RMC 12.2kbps	4183	836.6	0.19	0.363	23.00	22.69	0.390	1.6
Edge 3(Bottom)	RMC 12.2kbps	4183	836.6	0.18	0.116	23.00	22.69	0.125	1.6
Edge 4(Left)	RMC 12.2kbps	4183	836.6	0.08	0.469	23.00	22.69	0.504	1.6

Note:
· When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
·The test separation for body back, body front and 4 Edges is 5mm of all above table.

SAR MEASUREMENT												
Depth of Liquid (cm):>15					Relative Humidity (%): 51.1							
Product: Smart phone												
Test Mode: LTE Band 2												
BM MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<±0.2 dB)	SAR (1g) (W/kg)	Max. Tune up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/Kg)	Limit (W/kg)
			UL RB Allocation	UL RB START								
20	QPSK	Left Cheek	1	0	18900	1880	0.10	0.405	22.90	22.44	0.450	1.6
		Left Tilt	1	0	18900	1880	0.07	0.178	22.90	22.44	0.198	1.6
		Right Cheek	1	0	18900	1880	0.12	**0.448**	22.90	22.44	**0.498**	1.6
		Right Tilt	1	0	18900	1880	0.05	0.255	22.90	22.44	0.283	1.6
		Body back	1	0	18900	1880	-0.12	**0.645**	22.90	22.44	**0.717**	1.6
		Body front	1	0	18900	1880	-0.12	0.627	22.90	22.44	0.697	1.6
		Edge 2(Right)	1	0	18900	1880	-0.13	0.510	22.90	22.44	0.567	1.6
		Edge 3(Bottom)	1	0	18900	1880	0.10	0.537	22.90	22.44	0.597	1.6
		Edge 4(Left)	1	0	18900	1880	-0.06	0.275	22.90	22.44	0.306	1.6

Note:
· When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
·The test separation for body back, body front and 4 Edges is 5mm of all above table.

SAR MEASUREMENT												
Depth of Liquid (cm):>15					Relative Humidity (%): 50.4							
Product: Smart phone												
Test Mode: LTE Band 4												
BM MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<±0.2 dB)	SAR (1g) (W/kg)	Max. Tuneup Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/Kg)	Limit (W/kg)
			UL RB Allocation	UL RB START								
20	QPSK	Left Cheek	1	0	20175	1732.5	0.15	0.333	23.90	23.24	0.388	1.6
		Left Tilt	1	0	20175	1732.5	-0.04	0.169	23.90	23.24	0.197	1.6
		Right Cheek	1	0	20175	1732.5	0.16	**0.466**	23.90	23.24	**0.542**	1.6
		Right Tilt	1	0	20175	1732.5	-0.03	0.205	23.90	23.24	0.239	1.6
		Body back	1	0	20175	1732.5	0.16	**0.685**	23.90	23.24	**0.797**	1.6
		Body front	1	0	20175	1732.5	-0.15	0.558	23.90	23.24	0.650	1.6
		Edge 2(Right)	1	0	20175	1732.5	-0.14	0.377	23.90	23.24	0.439	1.6
		Edge 3(Bottom)	1	0	20175	1732.5	-0.11	0.409	23.90	23.24	0.476	1.6
		Edge 4(Left)	1	0	20175	1732.5	-0.08	0.128	23.90	23.24	0.149	1.6

Note:
· When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
·The test separation for body back, body front and 4 Edges is 5mm of all above table.

SAR MEASUREMENT												
Depth of Liquid (cm):>15				Relative Humidity (%): 50.8								
Product: Smart phone												
Test Mode: LTE Band 5												
BM MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<±0.2 dB)	SAR (1g) (W/kg)	Max. Tuneup Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/Kg)	Limit (W/kg)
			UL RB Allocation	UL RB START								
10	QPSK	Left Cheek	1	0	20525	836.5	-0.17	0.576	23.40	23.36	0.581	1.6
		Left Tilt	1	0	20525	836.5	-0.01	0.347	23.40	23.36	0.350	1.6
		Right Cheek	1	0	20525	836.5	0.02	**0.686**	23.40	23.36	**0.692**	1.6
		Right Tilt	1	0	20525	836.5	0.08	0.360	23.40	23.36	0.363	1.6
		Body back	1	0	20525	836.5	0.07	**0.673**	23.40	23.36	**0.679**	1.6
		Body front	1	0	20525	836.5	-0.07	0.438	23.40	23.36	0.442	1.6
		Edge 2(Right)	1	0	20525	836.5	0.17	0.397	23.40	23.36	0.401	1.6
		Edge 3(Bottom)	1	0	20525	836.5	0.14	0.098	23.40	23.36	0.099	1.6
		Edge 4(Left)	1	0	20525	836.5	0.10	0.493	23.40	23.36	0.498	1.6

Note:
· When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
·The test separation for body back, body front and 4 Edges is 5mm of all above table.

SAR MEASUREMENT											
Depth of Liquid (cm):>15				Relative Humidity (%): 49.3							
Product: Smart phone											
Test Mode: LTE Band 7											
BM MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<±0.2 dB)	SAR (1g) (W/kg)	Max. Tuneup Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/Kg)	Limit (W/kg)
			UL RB Allocation	UL RB START								
20	QPSK	Left Cheek	1	0	21100	2535	0.11	0.251	23.41	23.03	0.274	1.6
		Left Tilt	1	0	21100	2535	-0.04	0.139	23.41	23.03	0.152	1.6
		Right Cheek	1	0	21100	2535	0.18	**0.293**	23.41	23.03	**0.320**	1.6
		Right Tilt	1	0	21100	2535	-0.18	0.118	23.41	23.03	0.129	1.6
		Body back	1	0	20850	2510	-0.18	1.19	23.41	23.06	1.290	1.6
		Body back	1	0	21100	2535	-0.15	1.04	23.41	23.03	1.135	1.6
		Body back	1	0	21350	2560	-0.10	1.17	23.41	23.05	1.271	1.6
		Body front	1	0	21100	2535	0.11	0.280	23.41	23.03	0.306	1.6
		Edge 2(Right)	1	0	21100	2535	0.12	0.526	23.41	23.03	0.574	1.6
		Edge 3(Bottom)	1	0	20850	2510	-0.18	1.22	23.41	23.06	1.322	1.6
		Edge 3(Bottom)	1	0	21100	2535	0.16	1.25	23.41	23.03	**1.364**	1.6
		Edge 3(Bottom)	1	0	21350	2560	-0.10	**1.25**	23.41	23.05	1.358	1.6
		Edge 4(Left)	1	0	21100	2535	0.10	0.061	23.41	23.03	0.067	1.6
		Edge 3(Bottom) + Ear.	1	0	21350	2560	-0.16	0.664	23.41	23.05	0.721	1.6

Note:
· When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
·The test separation for body back, body front and 4 Edges is 5mm of all above table.

SAR MEASUREMENT									
Depth of Liquid (cm):>15				Relative Humidity (%): 52.8					
Product: Smart phone									
Test Mode:802.11b									
Position	**Mode**	**Ch.**	**Fr. (MHz)**	**Power Drift (<±0.2 dB)**	**SAR (1g) (W/kg)**	**Max. Tune-up Power (dBm)**	**Meas. output Power (dBm)**	**Scaled SAR (W/Kg)**	**Limit (W/kg)**
Left Cheek	DTS	6	2437	0.11	**0.179**	13.50	13.48	**0.180**	1.6
Left Tilt	DTS	6	2437	-0.16	0.144	13.50	13.48	0.145	1.6
Right Cheek	DTS	6	2437	0.01	0.170	13.50	13.48	0.171	1.6
Right Tilt	DTS	6	2437	0.11	0.129	13.50	13.48	0.130	1.6
Body back	DTS	6	2437	-0.11	**0.307**	13.50	13.48	**0.308**	1.6
Body front	DTS	6	2437	0.17	0.187	13.50	13.48	0.188	1.6
Edge 1 (Top)	DTS	6	2437	0.09	0.220	13.50	13.48	0.221	1.6
Edge 4(Left)	DTS	6	2437	-0.10	0.126	13.50	13.48	0.127	1.6

Note:
- According to KDB248227, SAR is not required for 802.11n HT20/HT40 channels when the maximum average output power is less than 1/4 dB higher than that measured on the corresponding 802.11a/b channels.
- All of above "DTS" means data transmitters.
- The test separation for body back, body front and 4 Edges is 5mm of all above table.

SAR MEASUREMENT								
Depth of Liquid (cm):>15				Relative Humidity (%): 51.4				
Product: Smart phone								
Test Mode:(5.2G WIFI-802.11n(40))								
Position	**Ch.**	**Fr. (MHz)**	**Power Drift (<±0.2dB)**	**SAR (1g) (W/kg)**	**Max. Tune-up Power (dBm)**	**Meas. output Power (dBm)**	**Scaled SAR (W/Kg)**	**Limit (W/kg)**
Left Cheek	46	5230	0.17	0.096	11.20	11.19	0.096	1.6
Left Tilt	46	5230	0.18	**0.096**	11.20	11.19	**0.096**	1.6
Right Cheek	46	5230	-0.15	0.016	11.20	11.19	0.016	1.6
Right Tilt	46	5230	-0.06	0.0112	11.20	11.19	0.011	1.6
Body back	46	5230	0.01	0.066	11.20	11.19	0.066	1.6
Body front	46	5230	-0.05	0.019	11.20	11.19	0.019	1.6
Edge 1 (Top)	46	5230	0.18	0.114	11.20	11.19	0.114	1.6
Edge 4(Left)	46	5230	0.15	**0.124**	11.20	11.19	**0.124**	1.6

Note:
· When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB447498.
·The test separation for body back, body front and 4 Edges is 5mm of all above table.

SAR MEASUREMENT								
Depth of Liquid (cm):>15				Relative Humidity (%): 54.1				
Product: Smart phone								
Test Mode: (5.8G WIFI-802.11ac(40))								
Position	**Ch.**	**Fr. (MHz)**	**Power Drift (<±0.2dB)**	**SAR (1g) (W/kg)**	**Max. Tune-up Power (dBm)**	**Meas. output Power (dBm)**	**Scaled SAR (W/Kg)**	**Limit (W/kg)**
Left Cheek	151	5755	0.15	0.288	9.50	9.49	0.289	1.6
Left Tilt	151	5755	0.15	0.180	9.50	9.49	0.180	1.6
Right Cheek	151	5755	-0.15	**0.380**	9.50	9.49	**0.381**	1.6
Right Tilt	151	5755	0.19	0.188	9.50	9.49	0.188	1.6
Body back	151	5755	0.17	0.209	9.50	9.49	0.209	1.6
Body front	151	5755	0.11	**0.459**	9.50	9.49	**0.460**	1.6
Edge 1 (Top)	151	5755	-0.17	0.086	9.50	9.49	0.086	1.6
Edge 4(Left)	151	5755	-0.18	0.173	9.50	9.49	0.173	1.6

Note:
· When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB447498.
·The test separation for body back, body front and 4 Edges is 5mm of all above table.

Repeated SAR										
Product: Smart phone										
Test Mode: GSM850										
Position	**Mode**	**Ch.**	**Fr. (MHz)**	**Power Drift (<±0.2 dB)**	**Once SAR (1g) (W/kg)**	**Power Drift (<±5%)**	**Twice SAR (1g) (W/kg)**	**Power Drift (<±0.2 dB)**	**Third SAR (1g) (W/kg)**	**Limit (W/kg)**
Body front	GPRS-3 slot	190	836.6	-0.12	1.11	--	--	--	--	1.6
--	--	--	--	--	--	--	--	--	--	1.6

Repeated SAR											
Product: Smart phone											
Test Mode: LTE Band 2											
Position	**Test Mode**		**Ch.**	**Fr. (MHz)**	**Power Drift (<±0.2 dB)**	**Once SAR (1g) (W/kg)**	**Power Drift (<±5%)**	**Twice SAR (1g) (W/kg)**	**Power Drift (<±0.2 dB)**	**Third SAR (1g) (W/kg)**	**Limit (W/kg)**
	UL RB Allocation	**UL RB START**									
Edge 3(Bottom)	1	0	21350	2560	-0.13	1.14	--	--	--	--	1.6
--	--	--	--	--	--	--	--	--	--	--	1.6

Simultaneous Multi-band Transmission Evaluation:

Application Simultaneous Transmission information:

NO	Simultaneous state	Portable Handset		
		Head	Body-worn	Hotspot
1	GSM(voice)+ WLAN 2.4GHz (data)& 5GHz (data)	Yes	Yes	-
2	GSM(voice)+ Bluetooth(data)	-	Yes	-
3	GSM (Data) + WLAN 2.4GHz (data) & 5GHz (data)	-	Yes	Yes
4	GSM (Data) + Bluetooth(data)	-	Yes	Yes
5	WCDMA+ WLAN 2.4GHz (data) & 5GHz (data)	Yes	Yes	Yes
6	WCDMA+ Bluetooth(data)	-	Yes	Yes
7	LTE + WLAN 2.4GHz (data) & 5GHz (data)	Yes	Yes	Yes
8	LTE + Bluetooth(data)	--	Yes	Yes

NOTE:

1. WIFI and BT share the same antenna, and cannot transmit simultaneously.
2. Simultaneous with every transmitter must be the same test position.
3. KDB 447498 D01, BT SAR is excluded as below table.
4. KDB 447498 D01, for handsets the test separation distance is determined by the smallest distance between the outer surface of the device and the user; which is 0mm for head SAR and 5mm for body-worn SAR.
5. According to KDB 447498 D01 4.3.1, Standalone SAR test exclusion is as follow:
   For 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:
   [(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] • [√f(GHz)] ≤ 3.0 for 1-g SAR, and ≤ 7.5 for 10-g extremity SAR[30], where
   - f(GHz) is the RF channel transmit frequency in GHz
   - Power and distance are rounded to the nearest mW and mm before calculation[31]
   - The result is rounded to one decimal place for comparison
   - The values 3.0 and 7.5 are referred to as numeric thresholds in step b) below

   The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm, and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 4.1 f) is applied to determine SAR test exclusion.
6. If the test separation distance is <5mm, 5mm is used for excluded SAR calculation.
7. According to KDB 447498 D01 4.3.2, simultaneous transmission SAR test exclusion is as follow:
   (1) 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.
   (2) Any transmitters and antennas should be considered when calculating simultaneous mode.
   (3) For mobile phone and PC, it's the sum of all transmitters and antennas at the same mode with same position in each applicable exposure condition
   (4)When the standalone SAR test exclusion of section 4.3.2 is applied to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to the following to det
   (max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]·[√f(GHz)/x] W/kg for test separation distances ≤ 50 mm;
   where x = 7.5 for 1-g SAR, and x = 18.75 for 10-g SAR.

8. When the sum of SAR is larger than the limit, SAR test exclusion is determined by the SAR to peak location separation ratio. The simultaneous transmitting antennas in each operating mode and exposure condition combination must be considered one pair at a time to determine the SAR to peak location separation ratio to qualify for test exclusion. The ratio is determined by (SAR1 + SAR2)1.5/Ri, rounded to two decimal digits, and must be ≤ 0.04 for all antenna pairs in the configuration to qualify for 1-g SAR test exclusion.

Estimated SAR		Max Power including Tune-up Tolerance		Separation Distance (mm)	Estimated SAR (W/kg)
		dBm	mW		
BT	Head	3	1.995	0	0.083
	Body	3	1.995	5	0.083

Sum of the SAR for GSM 850 &Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/Kg)	SPLSR (Yes/No)
		GSM 850	WI-Fi DTS Band	Bluetooth		
Head (voice)	Left Touch	0.983	0.180		1.163	No
	Left Tilt	0.374	0.145		0.519	No
	Right Touch	1.002	0.171		1.173	No
	Right Tilt	0.370	0.130		0.500	No
Body-worn (voice)	Rear	0.674	0.308		0.982	No
		0.674		0.083	0.757	No
	Front	0.709	0.188		0.897	No
		0.709		0.083	0.792	No
Body-worn (Data)	Rear	0.994		0.083	1.077	No
		0.994	0.308		1.302	No
	Front	1.167		0.083	1.250	No
		1.167	0.188		1.355	No
	Edge 4	0.682	0.127		0.809	No
	Edge 4	0.682		0.083	0.765	No

Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/Kg, SPLSR assessment is not required.

·SPLSR mean is “The SAR to Peak Location Separation Ratio “

Sum of the SAR for GSM 850 & U-NII-1/ U-NII-3:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			U-NII-1 Σ1-g SAR (W/Kg)	U-NII-3 Σ1-g SAR (W/Kg)	SPLSR (Yes/No)
		GSM 850	U-NII-1	U-NII-3			
Head (voice)	Left Touch	0.983	0.096	0.289	1.079	1.272	No
	Left Tilt	0.374	0.096	0.180	0.470	0.554	No
	Right Touch	1.002	0.016	0.381	1.018	1.383	No
	Right Tilt	0.370	0.011	0.188	0.381	0.558	No
Body-worn (voice)	Rear	0.674	0.066	0.209	0.740	0.883	No
	Front	0.709	0.019	0.460	0.728	1.169	No
Body-worn (Data)	Rear	0.994	0.066	0.209	1.060	1.203	No
	Front	1.167	0.019	0.460	1.186	1.627	No
	Edge 4	0.682	0.124	0.173	0.806	0.855	No

Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/Kg, SPLSR assessment is not required.

·SPLSR mean is “The SAR to Peak Location Separation Ratio “

Sum of the SAR for PCS1900 &Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/Kg)	SPLSR (Yes/No)
		PCS1900	WI-Fi DTS Band	Bluetooth		
Head (voice)	Left Touch	0.208	0.180		0.388	No
	Left Tilt	0.089	0.145		0.234	No
	Right Touch	0.267	0.171		0.438	No
	Right Tilt	0.158	0.130		0.288	No
Body-worn (voice)	Rear	0.348	0.308		0.656	No
		0.348		0.083	0.431	No
	Front	0.381	0.188		0.569	No
		0.381		0.083	0.464	No
Body-worn (Data)	Rear	0.576		0.083	0.659	No
		0.576	0.308		0.884	No
	Front	0.584		0.083	0.667	No
		0.584	0.188		0.772	No
	Edge 4	0.222	0.127		0.349	No
	Edge 4	0.222		0.083	0.305	No

Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/Kg, SPLSR assessment is not required.

·SPLSR mean is “The SAR to Peak Location Separation Ratio “

Sum of the SAR for PCS1900 & U-NII-1/ U-NII-3:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			U-NII-1 Σ1-g SAR (W/Kg)	U-NII-3 Σ1-g SAR (W/Kg)	SPLSR (Yes/No)
		PCS1900	U-NII-1	U-NII-3			
Head (voice)	Left Touch	0.208	0.096	0.289	0.304	0.497	No
	Left Tilt	0.089	0.096	0.180	0.185	0.269	No
	Right Touch	0.267	0.016	0.381	0.283	0.648	No
	Right Tilt	0.158	0.011	0.188	0.169	0.346	No
Body-worn (voice)	Rear	0.348	0.066	0.209	0.414	0.557	No
	Front	0.381	0.019	0.460	0.400	0.841	No
Body-worn (Data)	Rear	0.576	0.066	0.209	0.642	0.785	No
	Front	0.584	0.019	0.460	0.603	1.044	No
	Edge 4	0.222	0.124	0.173	0.346	0.395	No

Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/Kg, SPLSR assessment is not required.

·SPLSR mean is “The SAR to Peak Location Separation Ratio “

Sum of the SAR for WCDMA Band II &Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/Kg)	SPLSR (Yes/No)
		WCDMA Band II	Wi-Fi DTS Band	Bluetooth		
Head	Left Touch	0.373	0.180		0.553	No
	Left Tilt	0.218	0.145		0.363	No
	Right Touch	0.450	0.171		0.621	No
	Right Tilt	0.233	0.130		0.363	No
Hotspot	Rear	0.525	0.308		0.833	No
	Front	0.531	0.188		0.719	No
	Edge 4	0.068	0.127		0.195	No
	Rear	0.525		0.083	0.608	No
	Front	0.531		0.083	0.614	No
	Edge 4	0.068		0.083	0.151	No

Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/Kg, SPLSR assessment is not required.
·SPLSR mean is “The SAR to Peak Location Separation Ratio “

Sum of the SAR for WCDMA Band II & U-NII-1/ U-NII-3:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			U-NII-1 Σ1-g SAR (W/Kg)	U-NII-3 Σ1-g SAR (W/Kg)	SPLSR (Yes/No)
		WCDMA Band II	U-NII-1	U-NII-3			
Head	Left Touch	0.373	0.096	0.289	0.469	0.662	No
	Left Tilt	0.218	0.096	0.180	0.314	0.398	No
	Right Touch	0.450	0.016	0.381	0.466	0.831	No
	Right Tilt	0.233	0.011	0.188	0.244	0.421	No
Hotspot	Rear	0.525	0.066	0.209	0.591	0.734	No
	Front	0.531	0.019	0.460	0.550	0.991	No
	Edge 4	0.068	0.124	0.173	0.192	0.241	No

Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/Kg, SPLSR assessment is not required.

·SPLSR mean is “The SAR to Peak Location Separation Ratio “

Sum of the SAR for WCDMA Band V &Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/Kg)	SPLSR (Yes/No)
		WCDMA Band V	Wi-Fi DTS Band	Bluetooth		
Head	Left Touch	0.737	0.180		0.917	No
	Left Tilt	0.494	0.145		0.639	No
	Right Touch	0.703	0.171		0.874	No
	Right Tilt	0.360	0.130		0.490	No
Hotspot	Rear	0.506	0.308		0.814	No
	Front	0.570	0.188		0.758	No
	Edge 4	0.504	0.127		0.631	No
	Rear	0.506		0.083	0.589	No
	Front	0.570		0.083	0.653	No
	Edge 4	0.504		0.083	0.587	No

Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/Kg, SPLSR assessment is not required.
·SPLSR mean is “The SAR to Peak Location Separation Ratio “

Sum of the SAR for WCDMA Band V & U-NII-1/ U-NII-3:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			U-NII-1 Σ1-g SAR (W/Kg)	U-NII-3 Σ1-g SAR (W/Kg)	SPLSR (Yes/No)
		WCDMA Band V	U-NII-1	U-NII-3			
Head	Left Touch	0.737	0.096	0.289	0.833	1.026	No
	Left Tilt	0.494	0.096	0.180	0.590	0.674	No
	Right Touch	0.703	0.016	0.381	0.719	1.084	No
	Right Tilt	0.360	0.011	0.188	0.371	0.548	No
Hotspot	Rear	0.506	0.066	0.209	0.572	0.715	No
	Front	0.570	0.019	0.460	0.589	1.030	No
	Edge 4	0.504	0.124	0.173	0.628	0.677	No

Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/Kg, SPLSR assessment is not required.

·SPLSR mean is “The SAR to Peak Location Separation Ratio “

Sum of the SAR for LTE Band 2 &Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/Kg)	SPLSR (Yes/No)
		LTE Band 2	Wi-Fi DTS Band	Bluetooth		
Head	Left Touch	0.450	0.180		0.630	No
	Left Tilt	0.198	0.145		0.343	No
	Right Touch	0.498	0.171		0.669	No
	Right Tilt	0.283	0.130		0.413	No
Body-worn	Rear	0.717	0.308		1.025	No
	Front	0.697	0.188		0.885	No
	Edge 4	0.306	0.127		0.433	No
	Rear	0.717		0.083	0.800	No
	Front	0.697		0.083	0.780	No
	Edge 4	0.306		0.083	0.389	No

Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/Kg, SPLSR assessment is not required.
·SPLSR mean is “The SAR to Peak Location Separation Ratio “

Sum of the SAR for LTE Band 2 & U-NII-1/ U-NII-3:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			U-NII-1 Σ1-g SAR (W/Kg)	U-NII-3 Σ1-g SAR (W/Kg)	SPLSR (Yes/No)
		LTE Band 2	U-NII-1	U-NII-3			
Head	Left Touch	0.450	0.096	0.289	0.546	0.739	No
	Left Tilt	0.198	0.096	0.180	0.294	0.378	No
	Right Touch	0.498	0.016	0.381	0.514	0.879	No
	Right Tilt	0.283	0.011	0.188	0.294	0.471	No
Hotspot	Rear	0.717	0.066	0.209	0.783	0.926	No
	Front	0.697	0.019	0.460	0.716	1.157	No
	Edge 4	0.306	0.124	0.173	0.430	0.479	No

Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/Kg, SPLSR assessment is not required.

·SPLSR mean is “The SAR to Peak Location Separation Ratio “

Sum of the SAR for LTE Band 4 &Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/Kg)	SPLSR (Yes/No)
		LTE Band 4	Wi-Fi DTS Band	Bluetooth		
Head	Left Touch	0.388	0.180		0.568	No
	Left Tilt	0.197	0.145		0.342	No
	Right Touch	0.542	0.171		0.713	No
	Right Tilt	0.239	0.130		0.369	No
Body-worn	Rear	0.797	0.308		1.105	No
	Front	0.650	0.188		0.838	No
	Edge 4	0.149	0.127		0.276	No
	Rear	0.797		0.083	0.880	No
	Front	0.650		0.083	0.733	No
	Edge 4	0.149		0.083	0.232	No

Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/Kg, SPLSR assessment is not required.
·SPLSR mean is “The SAR to Peak Location Separation Ratio “

Sum of the SAR for LTE Band 4 & U-NII-1/ U-NII-3:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			U-NII-1 Σ1-g SAR (W/Kg)	U-NII-3 Σ1-g SAR (W/Kg)	SPLSR (Yes/No)
		LTE Band 4	U-NII-1	U-NII-3			
Head	Left Touch	0.388	0.096	0.289	0.484	0.677	No
	Left Tilt	0.197	0.096	0.180	0.293	0.377	No
	Right Touch	0.542	0.016	0.381	0.558	0.923	No
	Right Tilt	0.239	0.011	0.188	0.250	0.427	No
Hotspot	Rear	0.797	0.066	0.209	0.863	1.006	No
	Front	0.650	0.019	0.460	0.669	1.110	No
	Edge 4	0.149	0.124	0.173	0.273	0.322	No

Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/Kg, SPLSR assessment is not required.

·SPLSR mean is “The SAR to Peak Location Separation Ratio “

Sum of the SAR for LTE Band 5 &Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/Kg)	SPLSR (Yes/No)
		LTE Band 5	Wi-Fi DTS Band	Bluetooth		
Head	Left Touch	0.581	0.180		0.761	No
	Left Tilt	0.350	0.145		0.495	No
	Right Touch	0.692	0.171		0.863	No
	Right Tilt	0.363	0.130		0.493	No
Body-worn	Rear	0.679	0.308		0.987	No
	Front	0.442	0.188		0.630	No
	Edge 4	0.498	0.127		0.625	No
	Rear	0.679		0.083	0.762	No
	Front	0.442		0.083	0.525	No
	Edge 4	0.498		0.083	0.581	No

Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/Kg, SPLSR assessment is not required.
·SPLSR mean is “The SAR to Peak Location Separation Ratio “

Sum of the SAR for LTE Band 5 & U-NII-1/ U-NII-3:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			U-NII-1 Σ1-g SAR (W/Kg)	U-NII-3 Σ1-g SAR (W/Kg)	SPLSR (Yes/No)
		LTE Band 5	U-NII-1	U-NII-3			
Head	Left Touch	0.581	0.096	0.289	0.677	0.870	No
	Left Tilt	0.350	0.096	0.180	0.446	0.530	No
	Right Touch	0.692	0.016	0.381	0.708	1.073	No
	Right Tilt	0.363	0.011	0.188	0.374	0.551	No
Hotspot	Rear	0.679	0.066	0.209	0.745	0.888	No
	Front	0.442	0.019	0.460	0.461	0.902	No
	Edge 4	0.498	0.124	0.173	0.622	0.671	No

Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/Kg, SPLSR assessment is not required.

·SPLSR mean is “The SAR to Peak Location Separation Ratio “

Sum of the SAR for LTE Band 7 &Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/Kg)	SPLSR (Yes/No)
		LTE Band 7	Wi-Fi DTS Band	Bluetooth		
Head	Left Touch	0.274	0.180		0.454	No
	Left Tilt	0.152	0.145		0.297	No
	Right Touch	0.320	0.171		0.491	No
	Right Tilt	0.129	0.130		0.259	No
Body-worn	Rear	1.290	0.308		**1.598**	No
	Front	0.306	0.188		0.494	No
	Edge 4	0.067	0.127		0.194	No
	Rear	1.290		0.083	1.373	No
	Front	0.306		0.083	0.389	No
	Edge 4	0.067		0.083	0.150	No

Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/Kg, SPLSR assessment is not required.

·SPLSR mean is “The SAR to Peak Location Separation Ratio “

Sum of the SAR for LTE Band 7 & U-NII-1/ U-NII-3:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			U-NII-1 Σ1-g SAR (W/Kg)	U-NII-3 Σ1-g SAR (W/Kg)	SPLSR (Yes/No)
		LTE Band 7	U-NII-1	U-NII-3			
Head	Left Touch	0.274	0.096	0.289	0.370	0.563	No
	Left Tilt	0.152	0.096	0.180	0.248	0.332	No
	Right Touch	0.320	0.016	0.381	0.336	0.701	No
	Right Tilt	0.129	0.011	0.188	0.140	0.317	No
Hotspot	Rear	1.290	0.066	0.209	1.356	1.499	No
	Front	0.306	0.019	0.460	0.325	0.766	No
	Edge 4	0.067	0.124	0.173	0.191	0.240	No

Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/Kg, SPLSR assessment is not required.

·SPLSR mean is “The SAR to Peak Location Separation Ratio “

APPENDIX A. SAR SYSTEM CHECK DATA

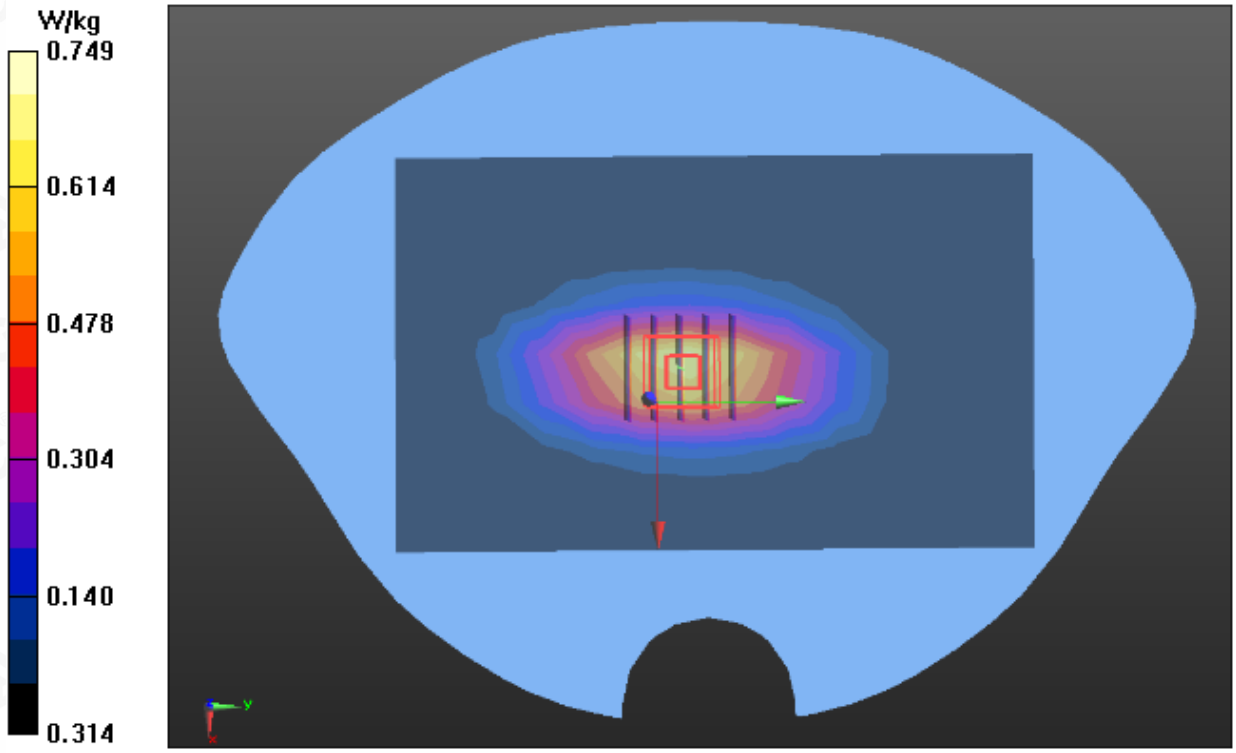
Test Laboratory: AGC Lab **Date: Feb. 23,2021**
System Check Head 835 MHz
DUT: Dipole 835 MHz Type: SID 835

Communication System CW; Communication System Band: D835 (835.0 MHz); Duty Cycle: 1:1;
Frequency: 835 MHz; Medium parameters used: f = 835 MHz; σ=0.91 mho/m; εr =42.12; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (℃):21.3, Liquid temperature (℃): 21.1

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(10.13, 10.13, 10.13); Calibrated: Jul. 29,2020;
• Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: Apr. 23,2020
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

System Check Head 850 MHz/Area Scan (9x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.737 W/kg

System Check Head 850 MHz/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 27.514 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 0.96 W/kg
SAR(1 g) = 0.612 W/kg; SAR(10 g) = 0.387 W/kg
Maximum value of SAR (measured) = 0.749 W/kg



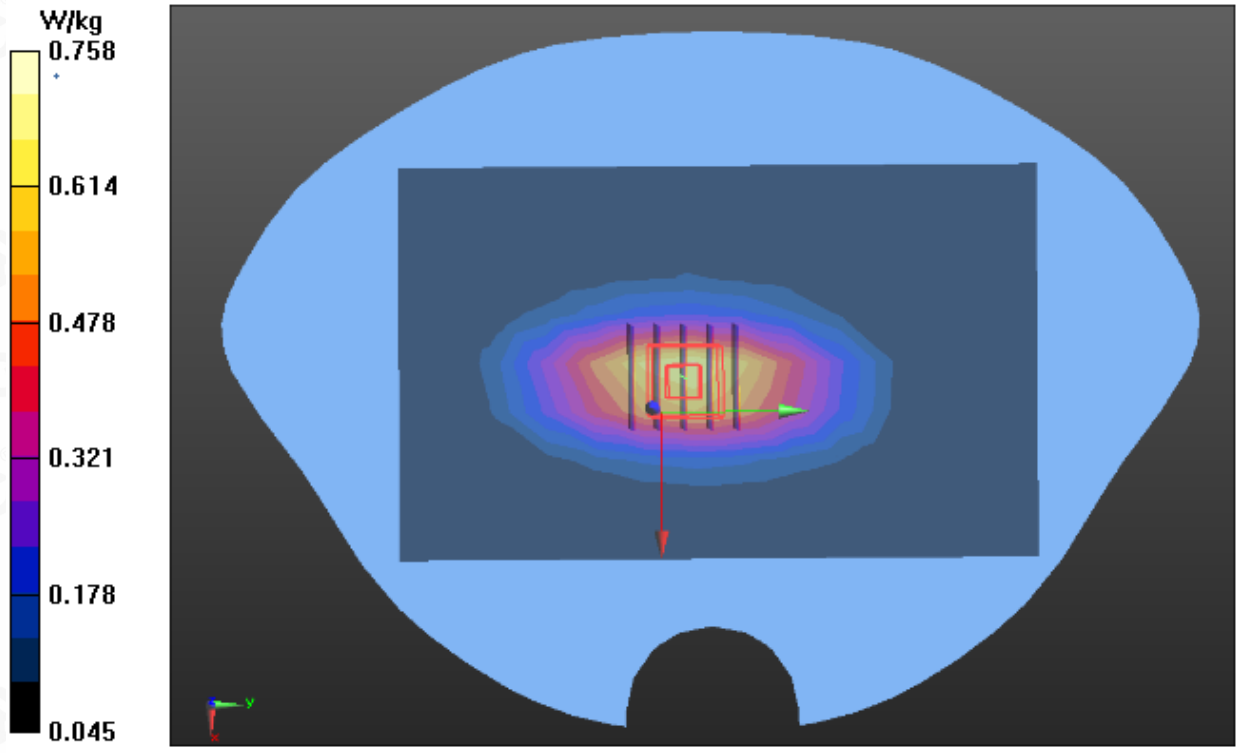
Test Laboratory: AGC Lab **Date: Feb. 24,2021**
System Check Head 835 MHz
DUT: Dipole 835 MHz Type: SID 835

Communication System CW; Communication System Band: D835 (835.0 MHz); Duty Cycle: 1:1;
Frequency: 835 MHz; Medium parameters used: f = 835 MHz; σ =0.91 mho/m; ε_r =41.03; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (℃): 21.4, Liquid temperature (℃): 21.1

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(10.13, 10.13, 10.13); Calibrated: Jul. 29,2020;
• Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: Apr. 23,2020
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

System Check Head 850 MHz/Area Scan (9x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.746 W/kg

System Check Head 850 MHz/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 27.330 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 0.94 W/kg
SAR(1 g) = 0.634 W/kg; SAR(10 g) = 0.402 W/kg
Maximum value of SAR (measured) = 0.758 W/kg



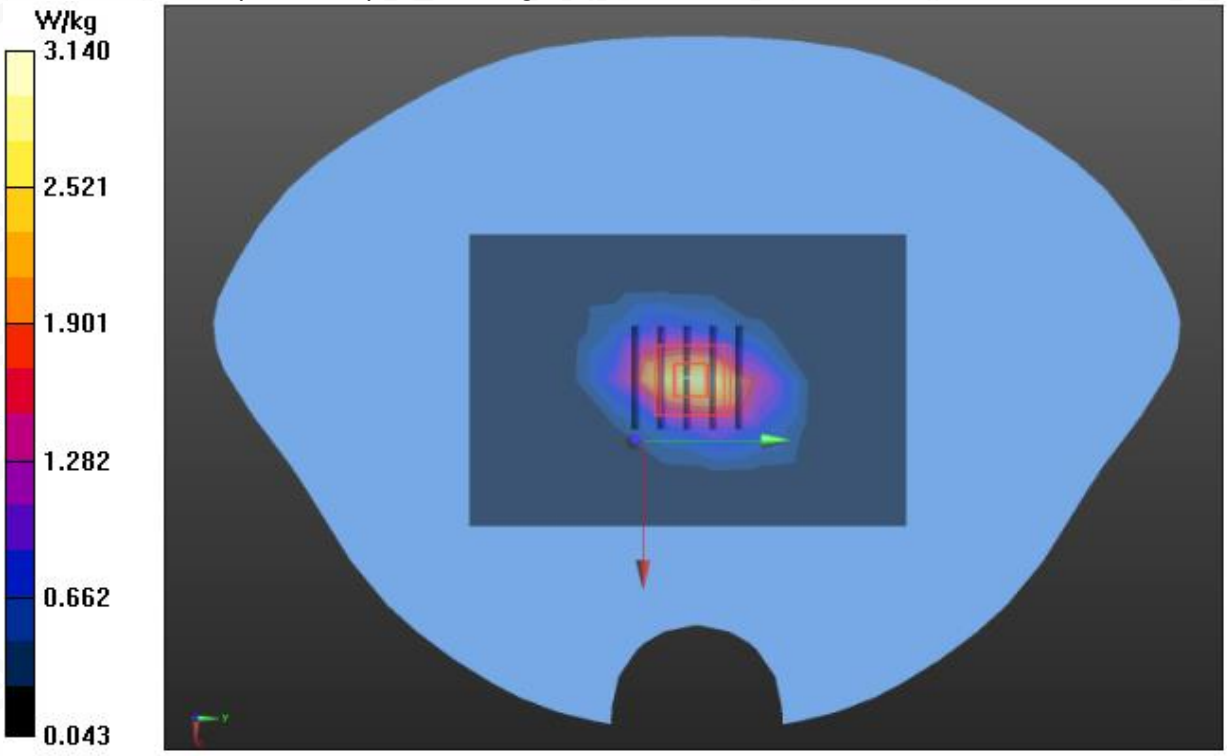
Test Laboratory: AGC Lab **Date: Feb. 24,2021**
System Check Head 1750MHz
DUT: Dipole 1800 MHz; Type: SID 1800

Communication System: CW; Communication System Band: D1700 (1750.0 MHz); Duty Cycle: 1:1;
Frequency: 1750 MHz; Medium parameters used: f = 1750 MHz; σ =1.37 mho/m; ε_r =39.62; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (℃): 21.6, Liquid temperature (℃): 21.3

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(8.61, 8.61, 8.61); Calibrated: Jul. 29,2020;
• Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: Apr. 23,2020
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Configuration/System Check Head 1750MHz/Area Scan (7x10x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 3.05 W/kg

Configuration/System Check Head 1750MHz/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 48.903 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 4.54 W/kg
SAR(1 g) = 2.44 W/kg; SAR(10 g) = 1.25 W/kg
Maximum value of SAR (measured) = 3.14 W/kg



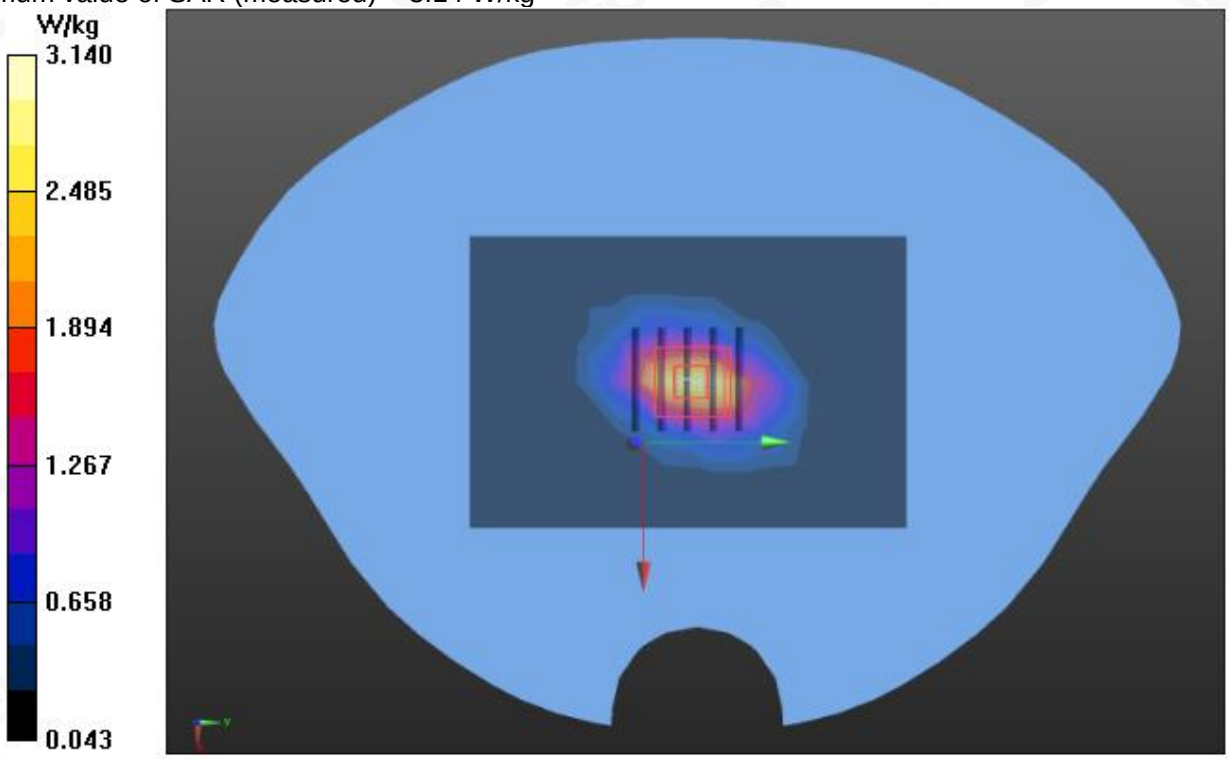
Test Laboratory: AGC Lab **Date: Feb. 22,2021**
System Check Head 1900MHz
DUT: Dipole 1900 MHz; Type: SID 1900

Communication System: CW; Communication System Band: D1900 (1900.0 MHz); Duty Cycle:1:1;
Frequency: 1900 MHz; Medium parameters used: f = 1900 MHz; σ=1.42 mho/m; εr =39.41; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (℃):21.5, Liquid temperature (℃): 21.3

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(8.32, 8.32, 8.32); Calibrated: Jul. 29,2020;
• Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: Apr. 23,2020
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Configuration/System Check Head 1900MHz/Area Scan (7x10x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 2.85 W/kg

Configuration/System Check Head 1900MHz/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 48.182 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 4.59 W/kg
SAR(1 g) = 2.43 W/kg; SAR(10 g) = 1.27 W/kg
Maximum value of SAR (measured) = 3.14 W/kg



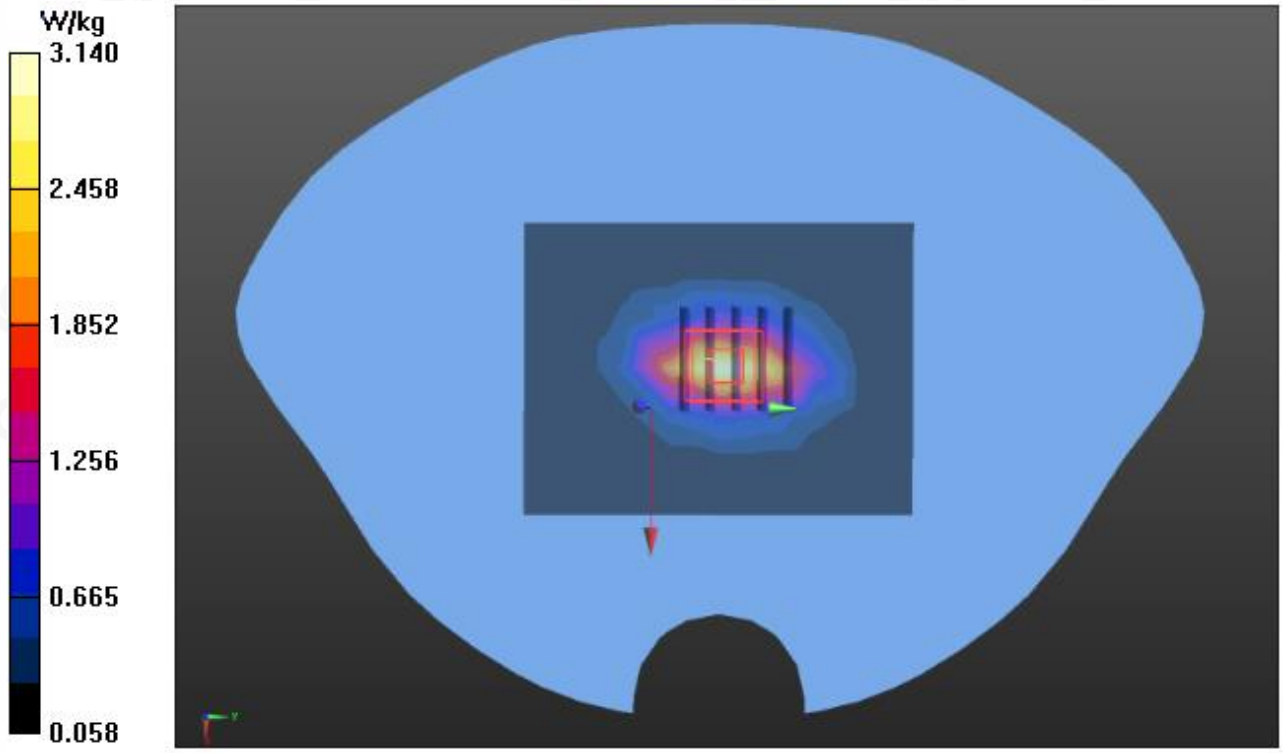
Test Laboratory: AGC Lab **Date: Feb. 27,2021**
System Check Head 1900MHz
DUT: Dipole 1900 MHz; Type: SID 1900

Communication System: CW; Communication System Band: D1900 (1900.0 MHz); Duty Cycle:1:1;
Frequency: 1900 MHz; Medium parameters used: f = 1900 MHz; σ =1.42 mho/m; ε_r =39.93;; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (℃): 20.9, Liquid temperature (℃): 20.7

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(8.32, 8.32, 8.32); Calibrated: Jul. 29,2020;
• Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: Apr. 23,2020
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Configuration/System Check Head 1900MHz/Area Scan (7x9x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 3.11 W/kg

Configuration/System Check Head 1900MHz/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 47.947 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 4.62 W/kg
SAR(1 g) = 2.53 W/kg; SAR(10 g) = 1.27 W/kg
Maximum value of SAR (measured) = 3.14 W/kg



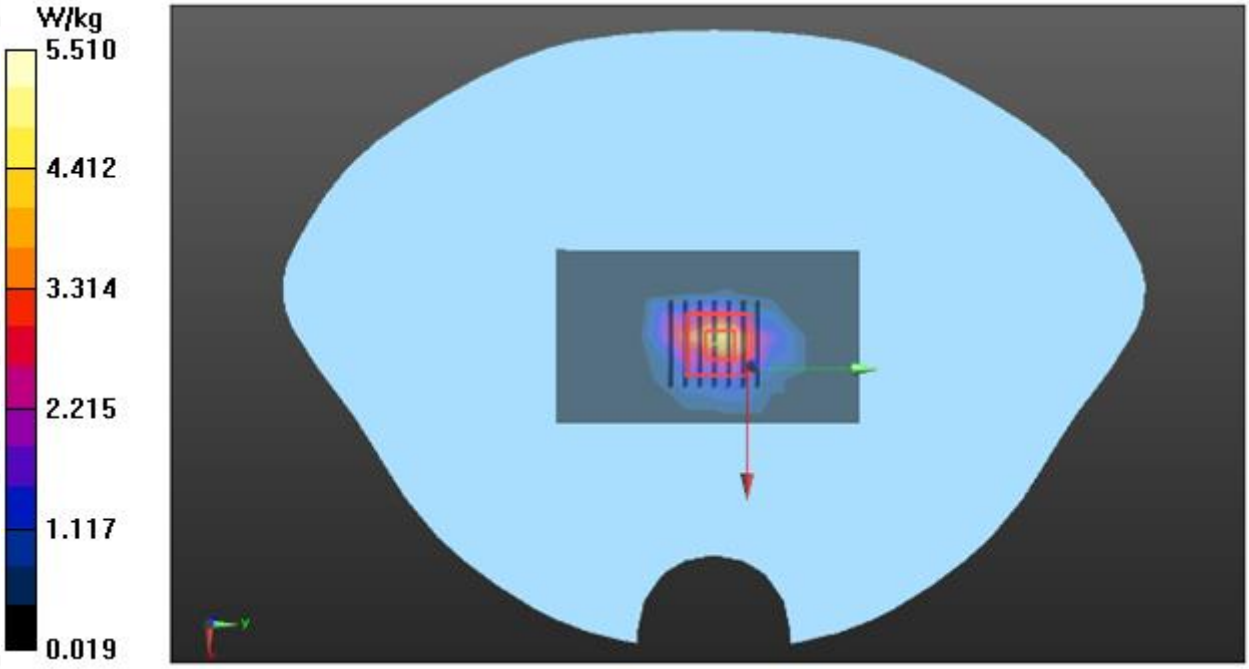
Test Laboratory: AGC Lab **Date: Feb. 26,2021**
System Check Head 2450 MHz
DUT: Dipole 2450 MHz Type: D2450V2

Communication System CW; Communication System Band: D2450 (2450.0 MHz); Duty Cycle: 1:1;
Frequency: 2450 MHz; Medium parameters used: f = 2450 MHz; σ=1.83 mho/m; εr =39.68; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (℃): 20.8, Liquid temperature (℃): 20.5

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(7.66, 7.66, 7.66); Calibrated: Jul. 29,2020;
• Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: Apr. 23,2020
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Configuration/System Check Head 2450Hz/Area Scan (5x8x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 4.76 W/kg

Configuration/System Check Head 2450Hz/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 53.182 V/m; Power Drift = -0.16 dB
Peak SAR (extrapolated) = 7.81 W/kg
SAR(1 g) = 3.49 W/kg; SAR(10 g) = 1.51 W/kg
Maximum value of SAR (measured) = 5.51 W/kg



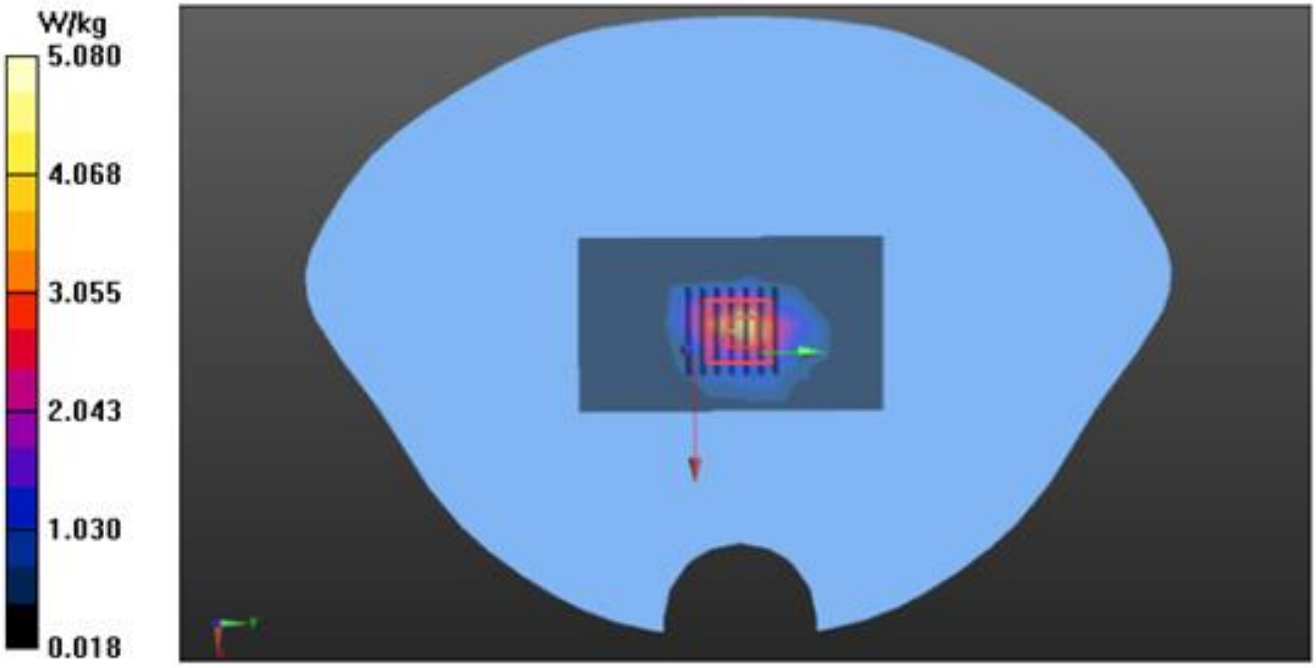
Test Laboratory: AGC Lab **Date: Feb. 18,2021**
System Check Head 2600 MHz
DUT: Dipole 2600 MHz; Type: SID 2600

Communication System: CW; Communication System Band: D2600 (2600.0 MHz); Duty Cycle: 1:1;
Frequency: 2600 MHz; Medium parameters used: f = 2600 MHz; σ =1.94 mho/m; ε_r =38.61; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (℃): 19.9, Liquid temperature (℃): 19.7

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(7.45, 7.45, 7.45); Calibrated: Jul. 29,2020;
• Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: Apr. 23,2020
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Configuration/System Check Head 2600Hz/Area Scan (5x8x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 5.15 W/kg

Configuration/System Check Head 2600Hz/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 51.263 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 6.92 W/kg
SAR(1 g) = 3.42 W/kg; SAR(10 g) = 1.49 W/kg
Maximum value of SAR (measured) = 5.08 W/kg



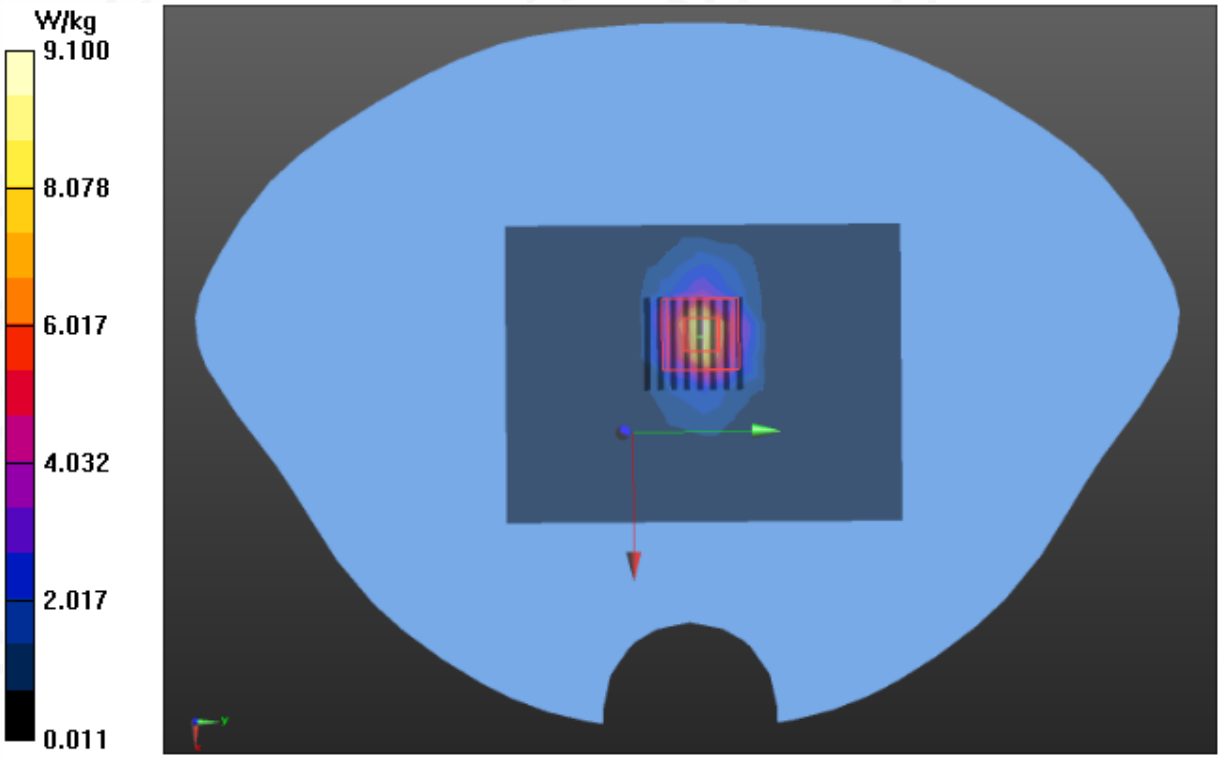
Test Laboratory: AGC Lab **Date: Feb. 25,2021**
System Check Head 5200 MHz
DUT: Dipole 5000MHz Type: SWG5500

Communication System: CW; Communication System Band: D5000 (5000.0 MHz); Duty Cycle: 1:1;
Frequency: 5200 MHz; Medium parameters used: f = 5250 MHz; σ =4.67mho/m; εr = 36.21; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=15dBm
Ambient temperature (℃): 21.2, Liquid temperature (℃): 21.0

DASY Configuration:
• Probe: EX3DV4 – SN3953; ConvF(5.53, 5.53, 5.53); Calibrated: Jul. 29,2020
• Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: Apr. 23,2020
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Configuration/System Check 5200MHz Head/Area Scan (10x13x1): Measurement grid:dx=10mm, dy=10mm
Maximum value of SAR (measured) = 9.28 W/kg

Configuration/System Check 5200MHz Head/Zoom Scan (8x8x13)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 27.672 V/m; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 17.2 W/kg
SAR(1 g) = 5.05 W/kg; SAR(10 g) = 1.71 W/kg
Maximum value of SAR (measured) = 9.10 W/kg



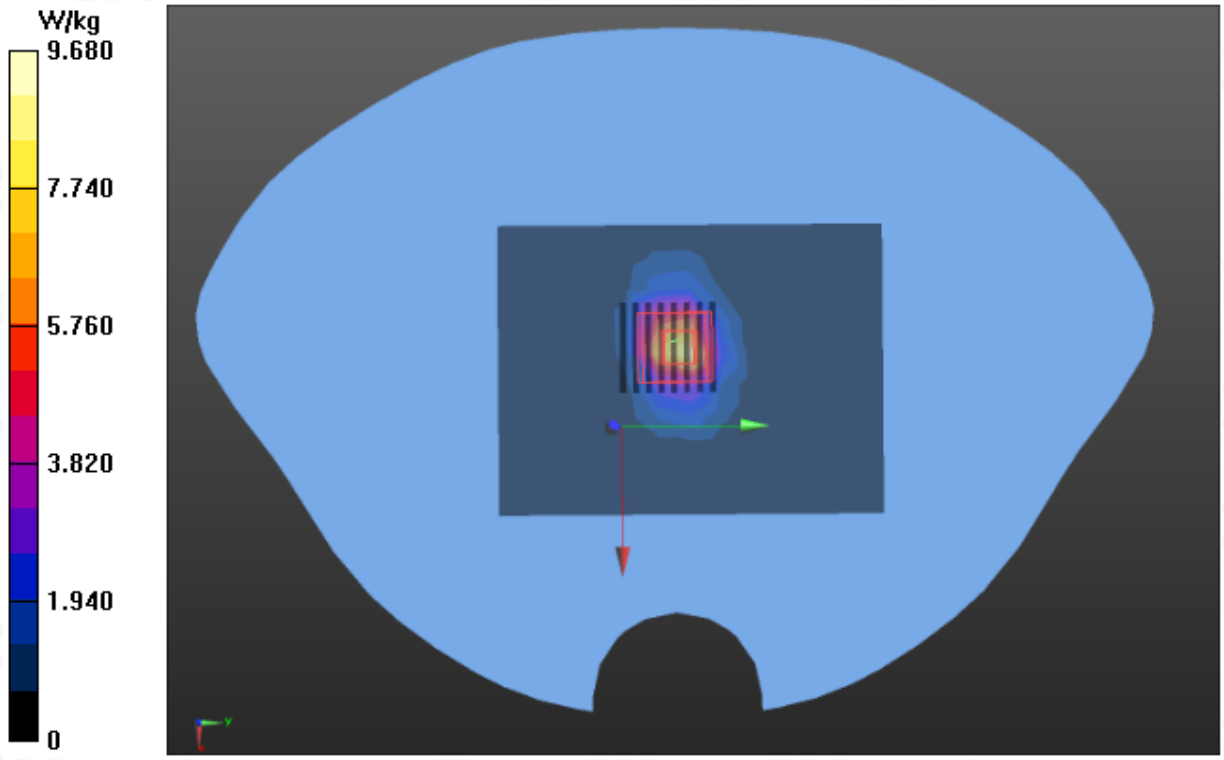
Test Laboratory: AGC Lab **Date: Feb. 20,2021**
System Check Head 5800 MHz
DUT: Dipole 5000MHz Type: SWG5500

Communication System: CW; Communication System Band: D5000 (5000.0 MHz); Duty Cycle: 1:1;
Frequency: 5800 MHz; Medium parameters used: f = 5750 MHz; σ =5.37 mho/m; εr =36.03; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=15dBm
Ambient temperature (℃): 21.2, Liquid temperature (℃): 21.0,

DASY Configuration:
• Probe: EX3DV4 – SN3953; ConvF(4.99, 4.99, 4.99); Calibrated: Jul. 29,2020
• Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: Apr. 23,2020
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Configuration/System Check 5800MHz Head/Area Scan (10x13x1): Measurement grid:dx=10mm, dy=10mm
Maximum value of SAR (measured) = 9.60 W/kg

Configuration/System Check 5800MHz Head/Zoom Scan (8x8x13)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 36.954 V/m; Power Drift = 0.17 dB
Peak SAR (extrapolated) = 18.8 W/kg
SAR(1 g) = 5.38 W/kg; SAR(10 g) = 1.89 W/kg
Maximum value of SAR (measured) = 9.68 W/kg



APPENDIX B. SAR MEASUREMENT DATA

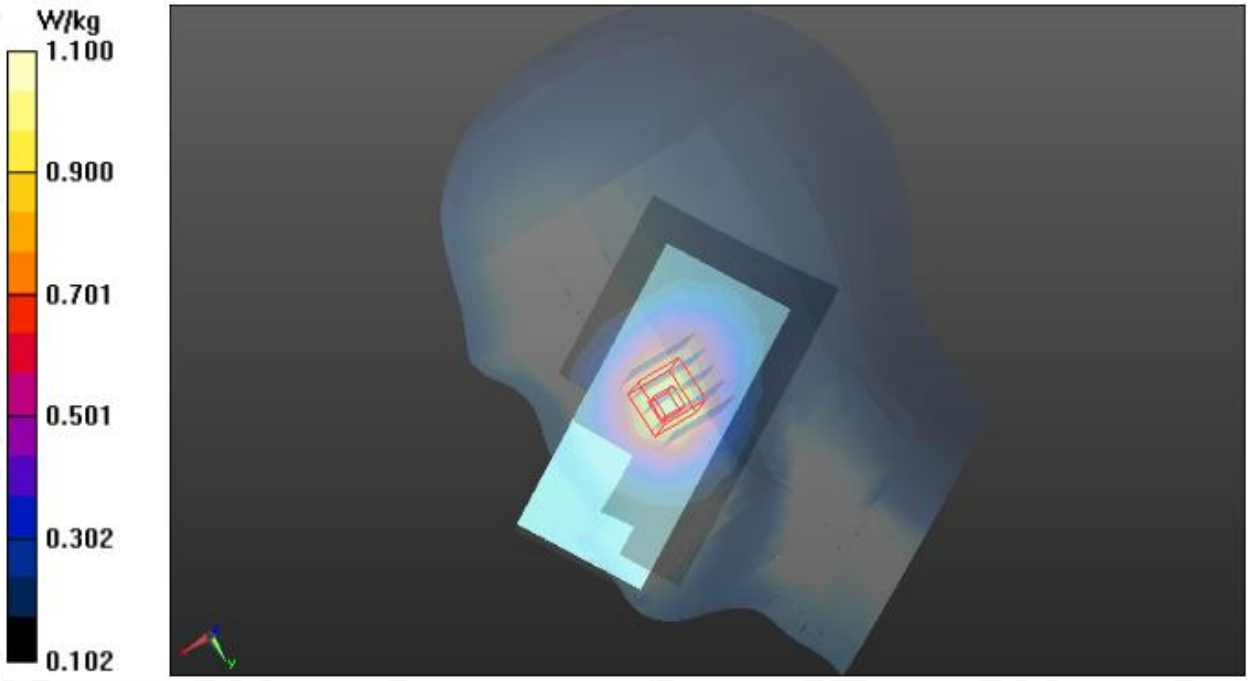
Test Laboratory: AGC Lab **Date: Feb. 23,2021**
GSM 850 High-Touch-Right <SIM 1>
DUT: Smart phone; Type: M7

Communication System: Generic GSM; Communication System Band: GSM 850; Duty Cycle: 1:8.3;
Frequency: 848.8 MHz; Medium parameters used: f = 835 MHz; σ=0.96 mho/m; εr =40.43; ρ= 1000 kg/m³ ;
Phantom section: Right Section
Ambient temperature (℃):21.3, Liquid temperature (℃): 21.1

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(10.13, 10.13, 10.13); Calibrated: Jul. 29,2020;
• Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: Apr. 23,2020
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

RIGHT HEAD/R-C-H/Area Scan (7x12x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.09 W/kg

RIGHT HEAD/R-C-H/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 13.967 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 1.29 W/kg
SAR(1 g) = 0.970 W/kg; SAR(10 g) = 0.676 W/kg
Maximum value of SAR (measured) = 1.10 W/kg



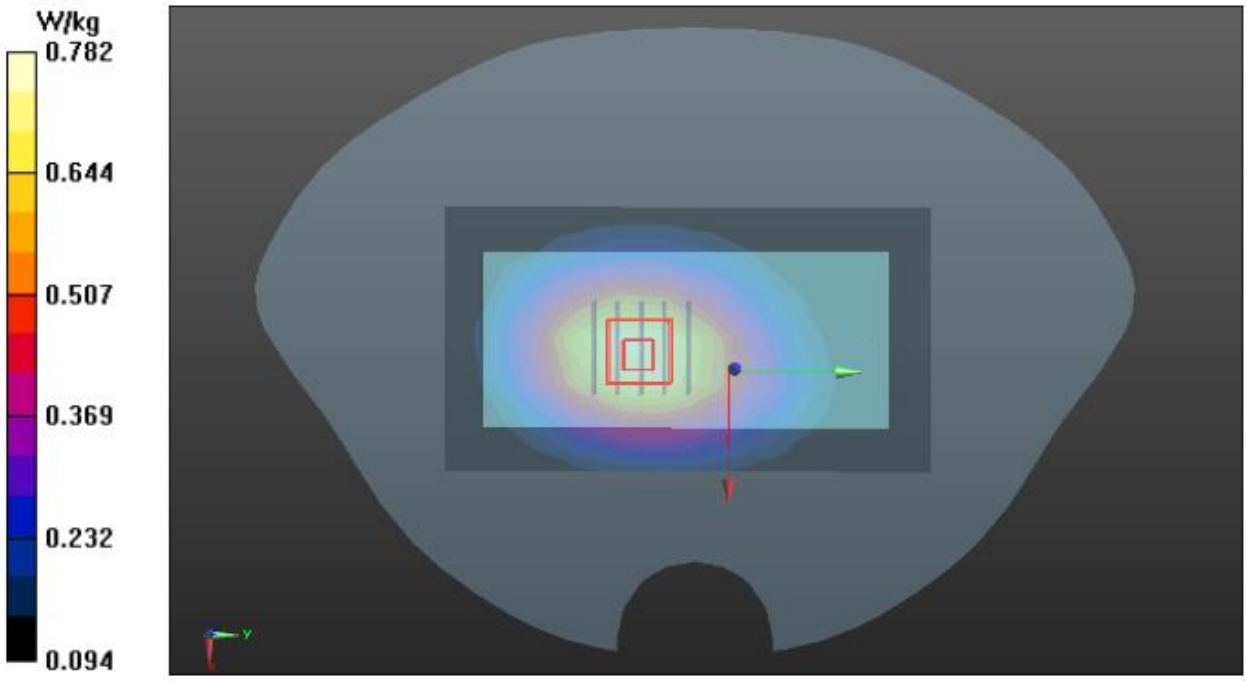
Test Laboratory: AGC Lab **Date: Feb. 23,2021**
GSM 850 Mid- Body- Front (MS) <SIM 1>
DUT: Smart phone; Type: M7

Communication System: Generic GSM; Communication System Band: GSM 850; Duty Cycle: 1:8.3;
Frequency: 836.6 MHz; Medium parameters used: f = 835 MHz; σ=0.94 mho/m; εr =41.76; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃):21.3, Liquid temperature (℃): 21.1

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(10.13, 10.13, 10.13); Calibrated: Jul. 29,2020;
• Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: Apr. 23,2020
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QDOVA002AA;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

BODY/FRONT/Area Scan (7x12x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.758 W/kg

BODY/FRONT/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 27.610 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 0.938 W/kg
SAR(1 g) = 0.698 W/kg; SAR(10 g) = 0.502 W/kg
Maximum value of SAR (measured) = 0.782 W/kg



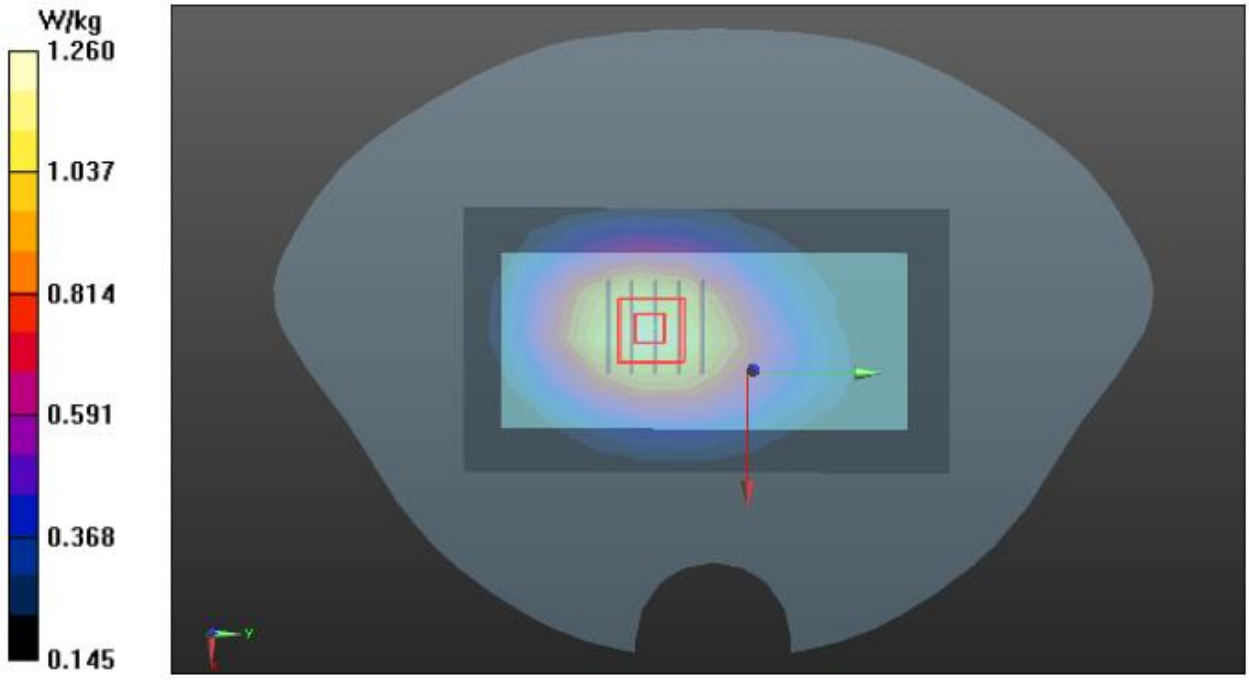
Test Laboratory: AGC Lab **Date: Feb. 23,2021**
GPRS 850 Mid- Body- Front (3up) < SIM 1>
DUT: Smart phone; Type: M7

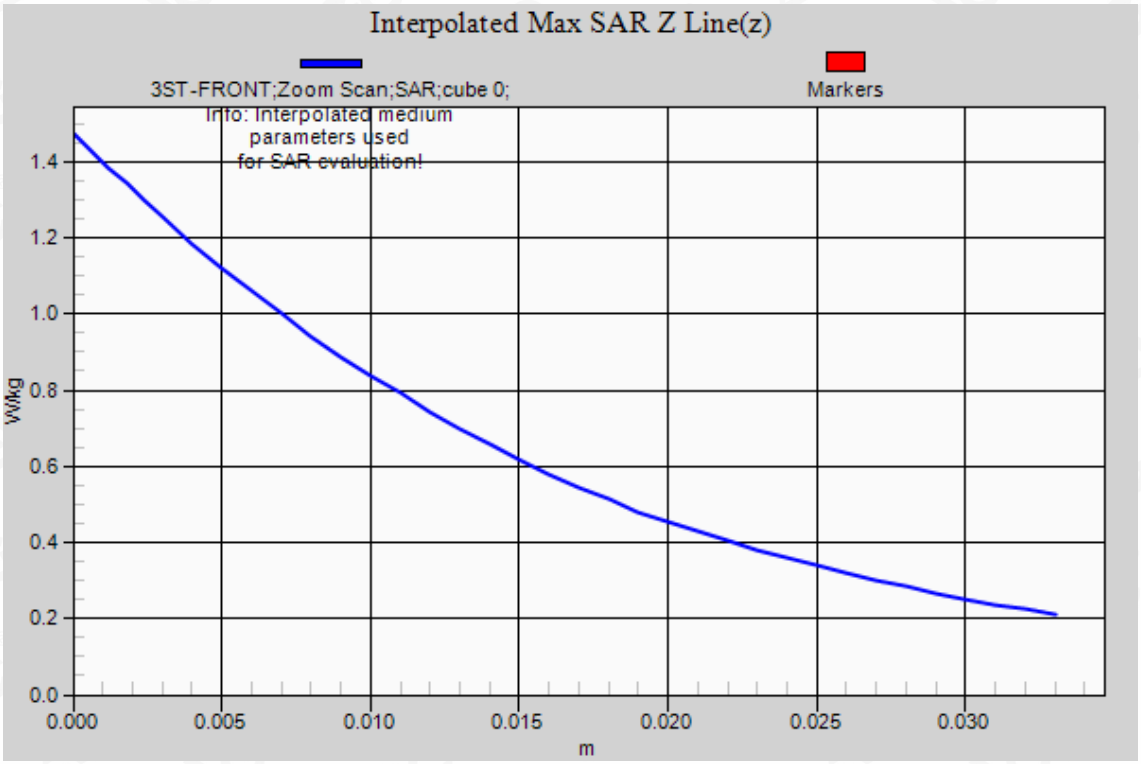
Communication System: GPRS-3 Slot; Communication System Band: GSM 850; Duty Cycle: 1:2.7;
Frequency: 836.6 MHz; Medium parameters used: f = 835 MHz; σ= 0.94 mho/m; εr = 41.76; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃):21.3, Liquid temperature (℃): 21.1

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(10.13, 10.13, 10.13); Calibrated: Jul. 29,2020;
• Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: Apr. 23,2020
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QDOVA002AA;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

BODY/4ST-FRONT/Area Scan (7x12x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.23 W/kg

BODY/4ST-FRONT/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 34.550 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 1.47 W/kg
SAR(1 g) = 1.12 W/kg; SAR(10 g) = 0.800 W/kg
Maximum value of SAR (measured) = 1.26 W/kg



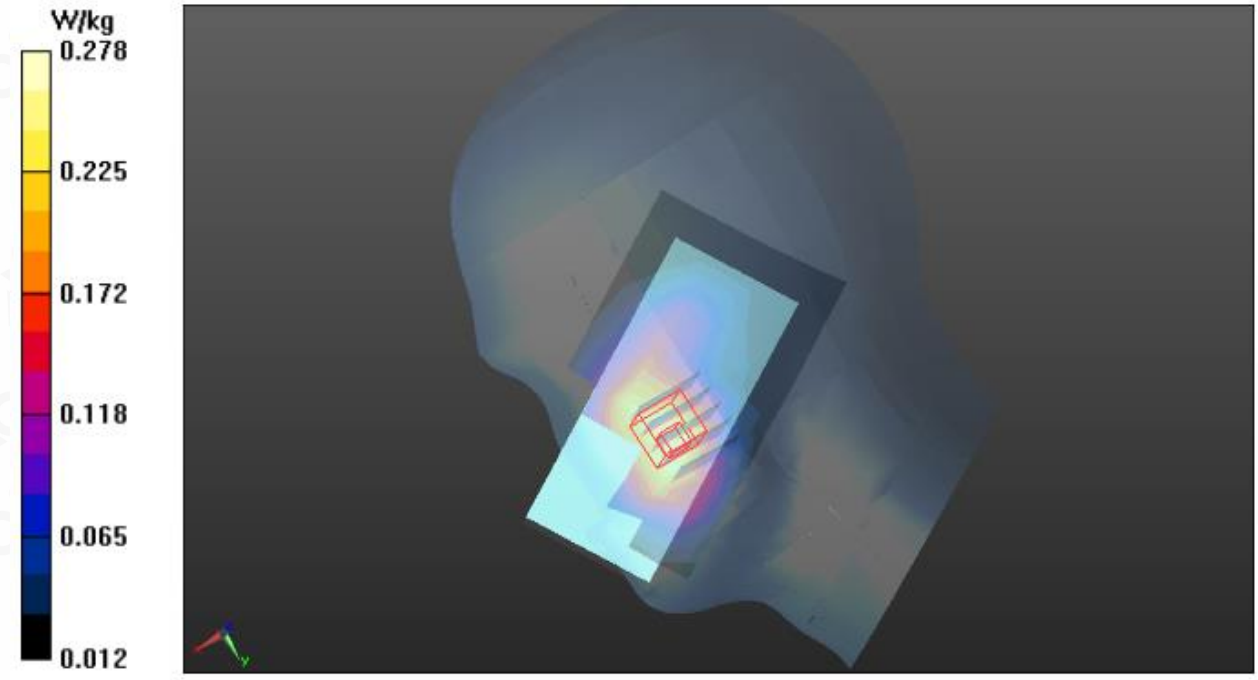


Test Laboratory: AGC Lab **Date: Feb. 22,2021**
PCS 1900 Mid-Touch-Right <SIM 1>
DUT: Smart phone; Type: M7

Communication System: Generic GSM; Communication System Band: PCS 1900; Duty Cycle: 1:8.3;
Frequency: 1880 MHz; Medium parameters used: f = 1900 MHz; σ= 1.40 mho/m; εr =40.23; ρ= 1000 kg/m³ ;
Phantom section: Right Section
Ambient temperature (℃):21.5, Liquid temperature (℃): 21.3

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(8.32, 8.32, 8.32); Calibrated: Jul. 29,2020;
• Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: Apr. 23,2020
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)
RIGHT HEAD/R-C/Area Scan (7x12x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.266 W/kg

RIGHT HEAD/R-C/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 4.890 V/m; Power Drift = 0.16 dB
Peak SAR (extrapolated) = 0.356 W/kg
SAR(1 g) = 0.240 W/kg; SAR(10 g) = 0.158 W/kg
Maximum value of SAR (measured) = 0.278 W/kg

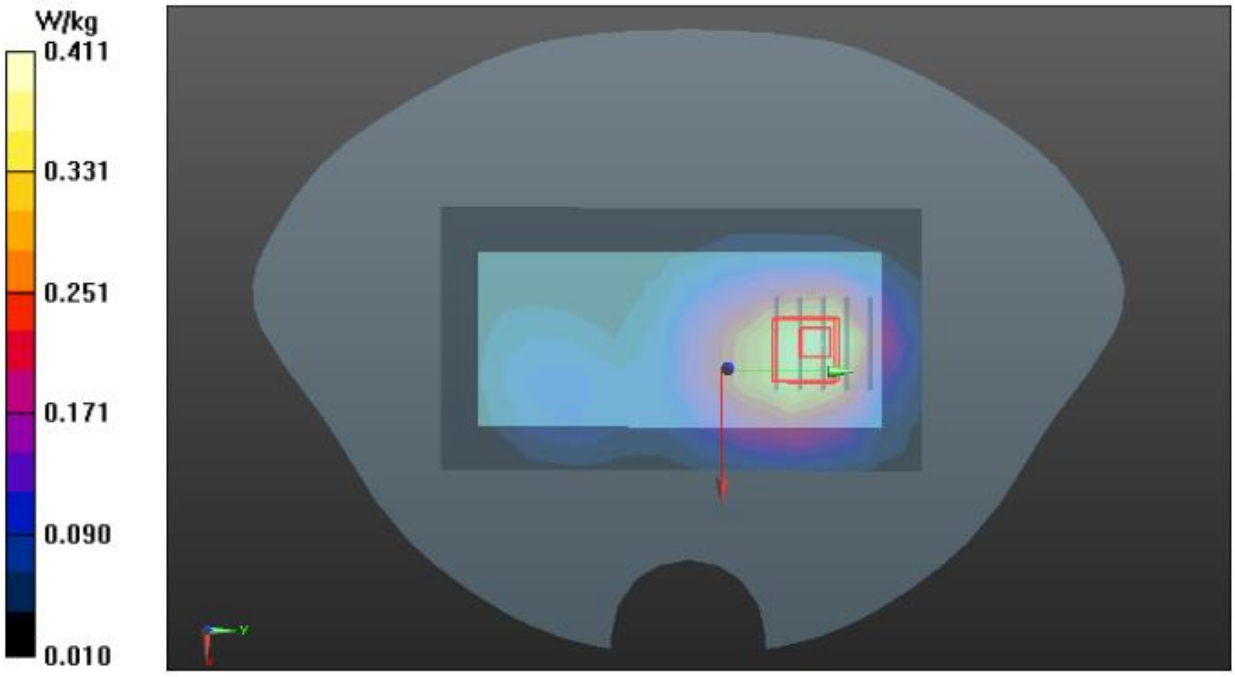


Test Laboratory: AGC Lab **Date: Feb. 22,2021**
PCS 1900 Mid-Body -Front(MS)<SIM 1>
DUT: Smart phone; Type: M7

Communication System: Generic GSM; Communication System Band: PCS 1900; Duty Cycle: 1:8.3;
Frequency: 1880 MHz; Medium parameters used: f = 1900 MHz; σ= 1.40 mho/m; εr =40.23; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃):21.5, Liquid temperature (℃): 21.3

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(8.32, 8.32, 8.32); Calibrated: Jul. 29,2020;
• Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: Apr. 23,2020
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)
BODY/FRONT/Area Scan (7x12x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.390 W/kg

BODY/FRONT/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 10.267 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 0.573 W/kg
SAR(1 g) = 0.342 W/kg; SAR(10 g) = 0.207 W/kg
Maximum value of SAR (measured) = 0.411 W/kg



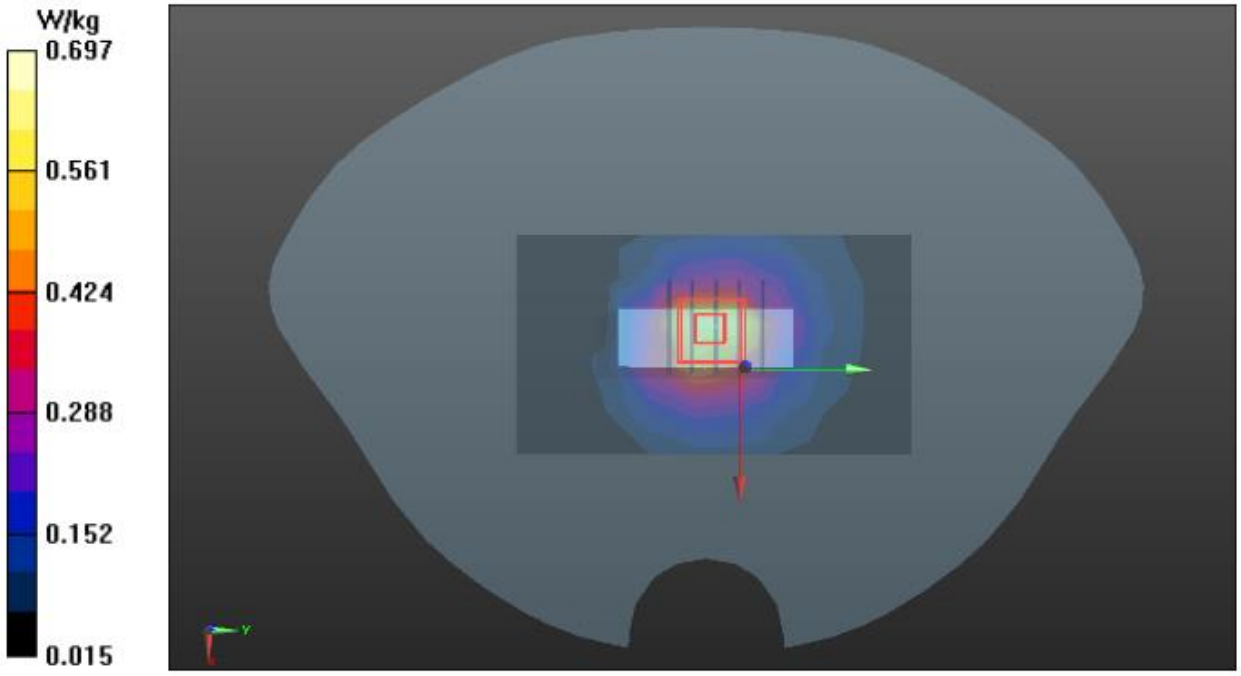
Test Laboratory: AGC Lab **Date: Feb. 22,2021**
GPRS 1900 Mid-Edge 3 (2up) < SIM 1>
DUT: Smart phone; Type: M7

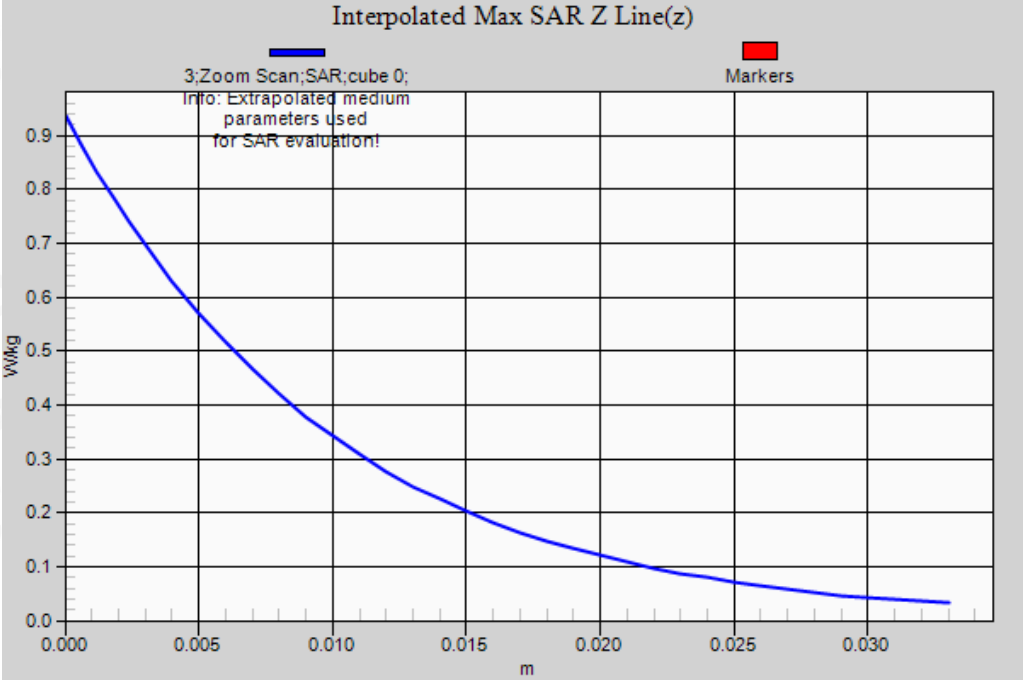
Communication System: GPRS-2 Slot; Communication System Band: PCS 1900; Duty Cycle: 1:4.2;
Frequency: 1880 MHz; Medium parameters used: f = 1900 MHz; σ= 1.40 mho/m; εr =40.23; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃):21.5, Liquid temperature (℃): 21.3

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(8.32, 8.32, 8.32); Calibrated: Jul. 29,2020;
• Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: Apr. 23,2020
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

BODY 2/3/Area Scan (6x10x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.633 W/kg

BODY 2/3/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 22.719 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 0.936 W/kg
SAR(1 g) = 0.570 W/kg; SAR(10 g) = 0.326 W/kg
Maximum value of SAR (measured) = 0.697 W/kg





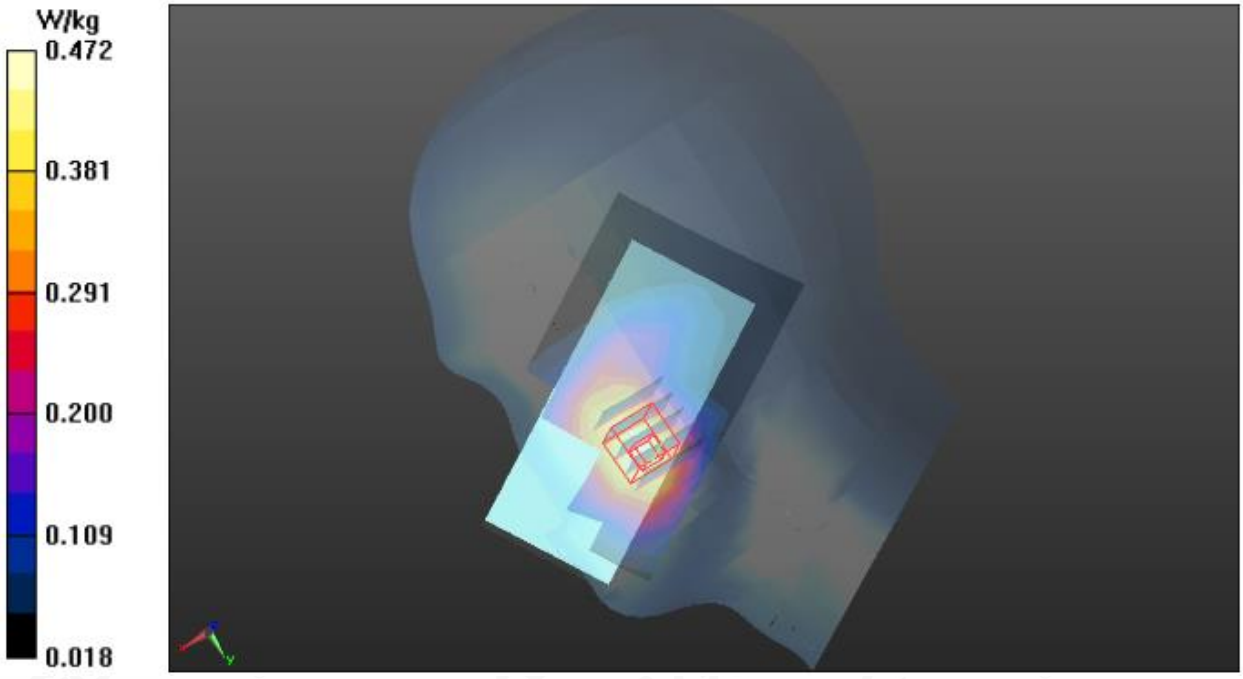
Test Laboratory: AGC Lab **Date: Feb. 22,2021**
WCDMA Band II Mid-Touch-Right
DUT: Smart phone; Type: M7

Communication System: UMTS; Communication System Band: Band II UTRA/FDD ;Duty Cycle:1:1; Frequency: 1880 MHz; Medium parameters used: f = 1900 MHz; σ= 1.40 mho/m; εr =40.23; ρ= 1000 kg/m³ ;
Phantom section: Right Section
Ambient temperature (℃):21.5, Liquid temperature (℃): 21.3

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(8.32, 8.32, 8.32); Calibrated: Jul. 29,2020;
• Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: Apr. 23,2020
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

RIGHT HEAD/R-C/Area Scan (7x12x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.464 W/kg

RIGHT HEAD/R-C/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.983 V/m; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 0.619 W/kg
SAR(1 g) = 0.411 W/kg; SAR(10 g) = 0.265 W/kg
Maximum value of SAR (measured) = 0.472 W/kg



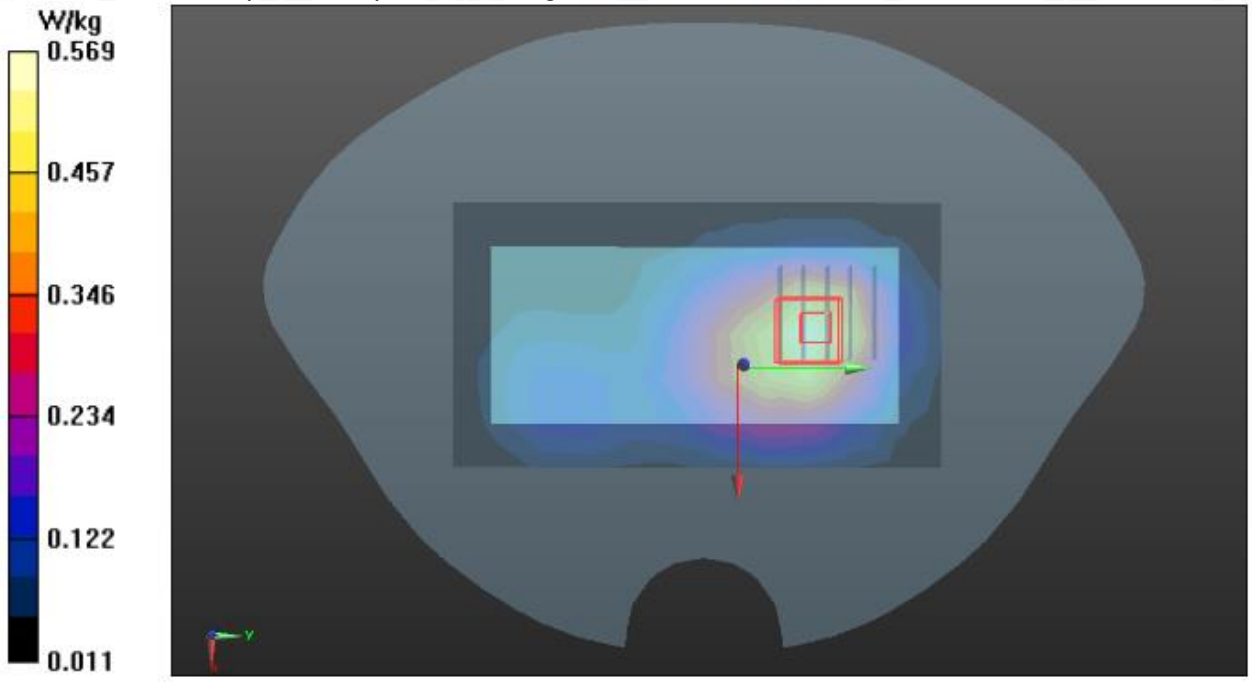
Test Laboratory: AGC Lab **Date: Feb. 22,2021**
WCDMA Band II Mid-Body-Towards Phantom
DUT: Smart phone; Type: M7

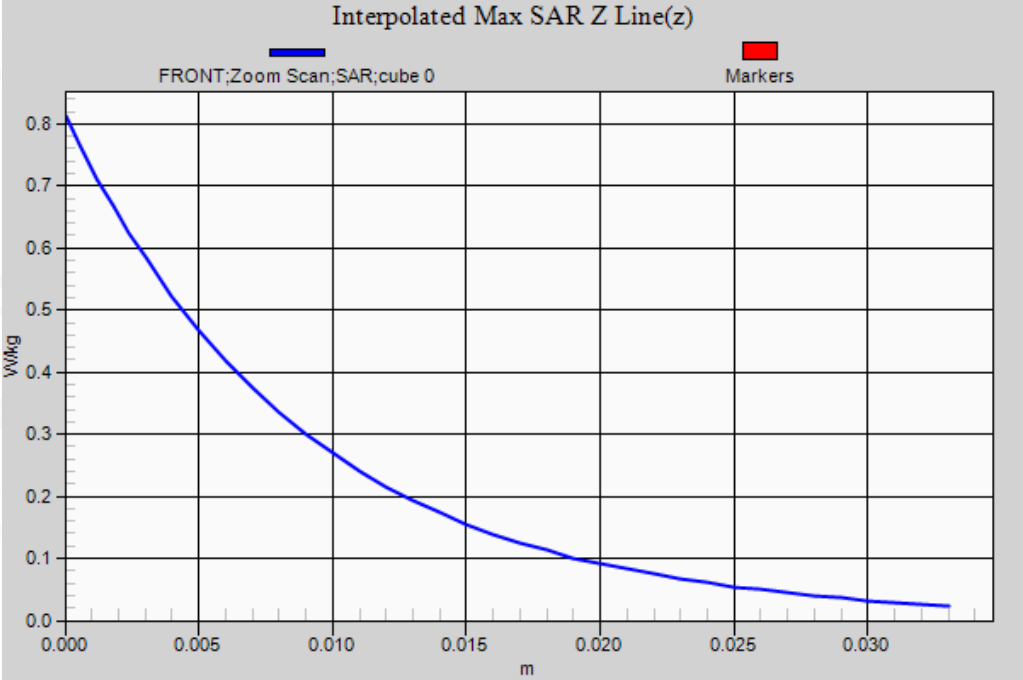
Communication System: UMTS; Communication System Band: Band II UTRA/FDD ;Duty Cycle:1:1; Frequency: 1880 MHz; Medium parameters used: f = 1900 MHz; σ=1.40 mho/m; εr =40.23; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃):21.5, Liquid temperature (℃): 21.3

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(8.32, 8.32, 8.32); Calibrated: Jul. 29,2020;
• Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: Apr. 23,2020
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

BODY/FRONT/Area Scan (7x12x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.565 W/kg

BODY/FRONT/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 14.112 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 0.812 W/kg
SAR(1 g) = 0.485 W/kg; SAR(10 g) = 0.290 W/kg
Maximum value of SAR (measured) = 0.569 W/kg





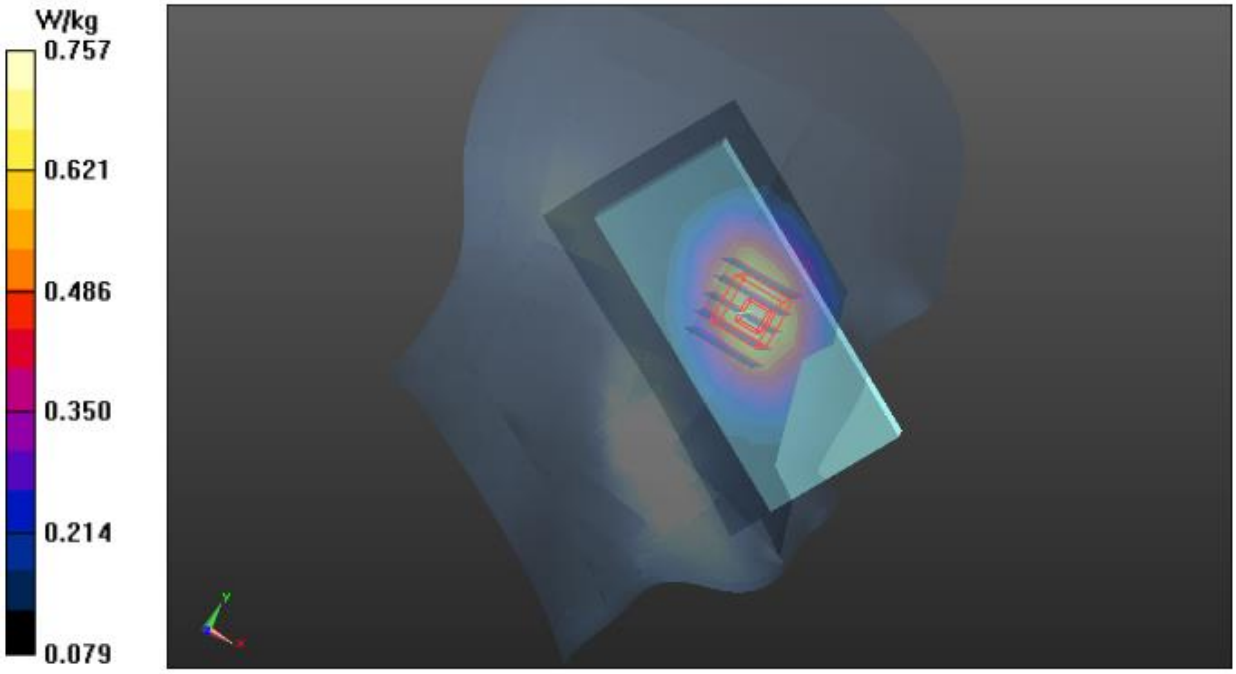
Test Laboratory: AGC Lab **Date: Feb. 23,2021**
WCDMA Band V Mid-Touch-Left
DUT: Smart phone; Type: M7

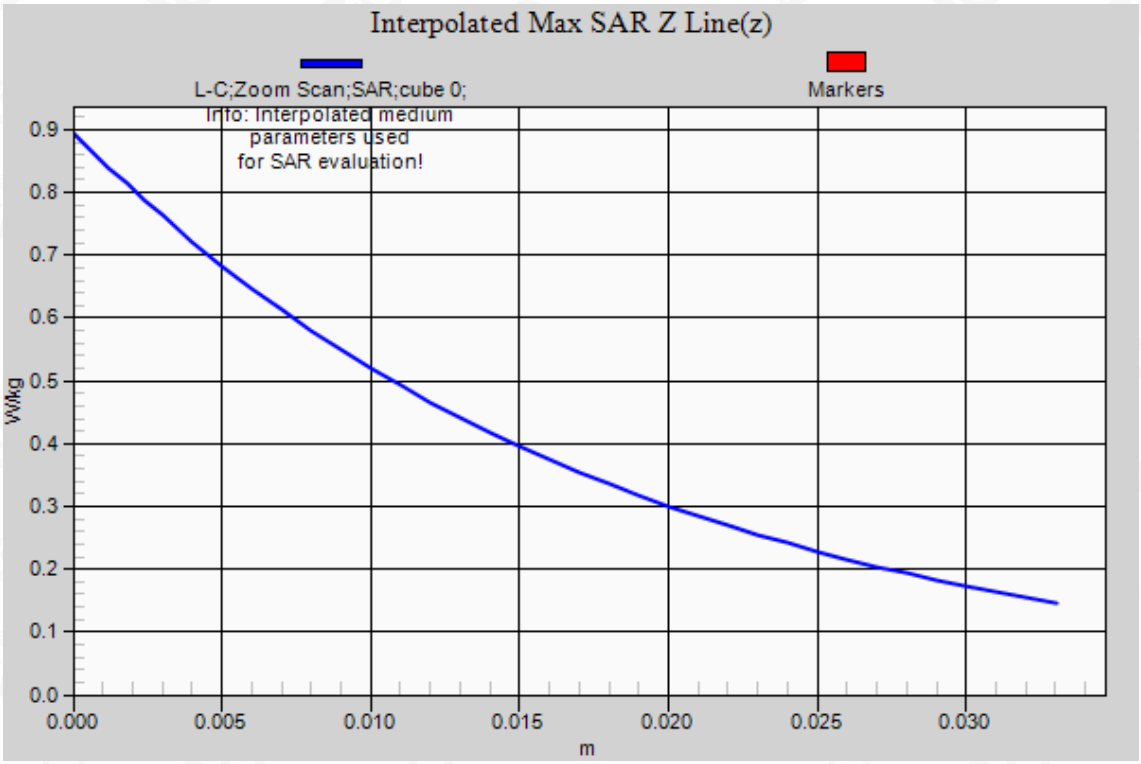
Communication System: UMTS; Communication System Band: BAND V UTRA/FDD;Duty Cycle:1:1;
Frequency: 836.6 MHz; Medium parameters used: f = 835 MHz; σ=0.94 mho/m; εr =41.76; ρ= 1000 kg/m³ ;
Phantom section: Left Section
Ambient temperature (℃):21.3, Liquid temperature (℃): 21.1

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(10.13, 10.13, 10.13); Calibrated: Jul. 29,2020;
• Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: Apr. 23,2020
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

LEFT HEAD/L-C/Area Scan (7x12x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.697 W/kg

LEFT HEAD/L-C/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.989 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 0.893 W/kg
SAR(1 g) = 0.686 W/kg; SAR(10 g) = 0.498 W/kg
Maximum value of SAR (measured) = 0.757 W/kg





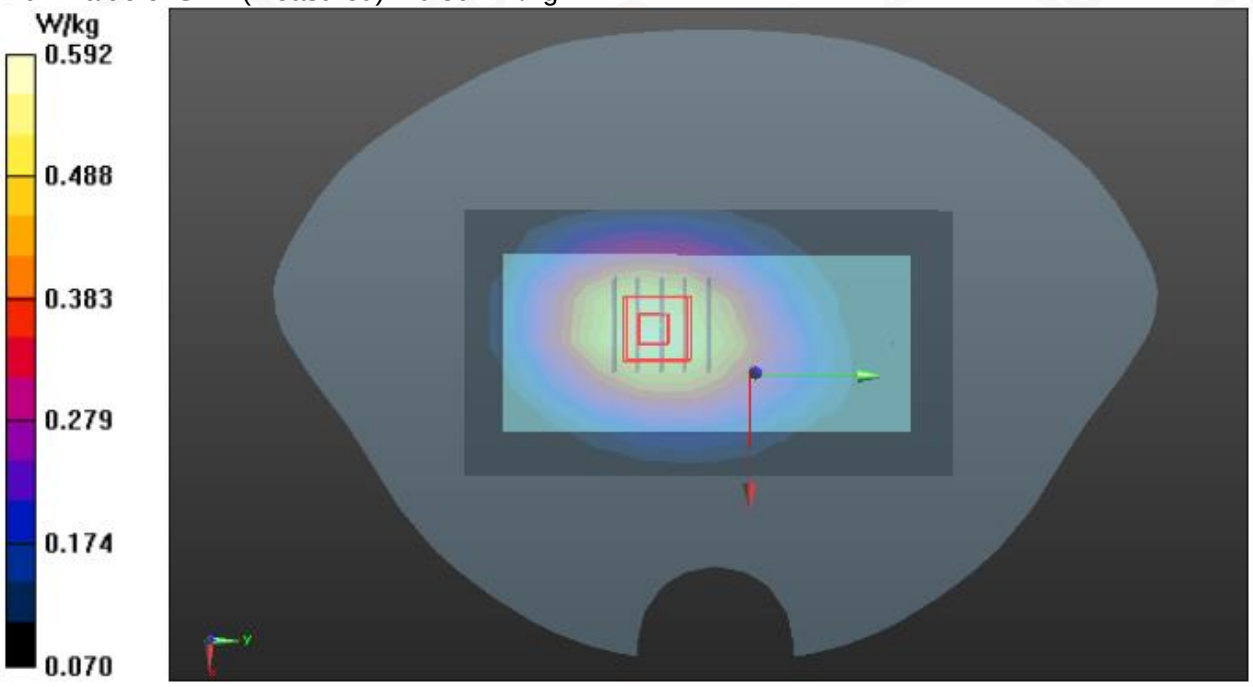
Test Laboratory: AGC Lab **Date: Feb. 23,2021**
WCDMA Band V Mid- Body - Towards Phantom
DUT: Smart phone; Type: M7

Communication System: UMTS; Communication System Band: BAND V UTRA/FDD;Duty Cycle:1:1;
Frequency: 836.6 MHz; Medium parameters used: f = 835 MHz; σ=0.94 mho/m; εr =41.76;ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃):21.3, Liquid temperature (℃): 21.1

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(10.13, 10.13, 10.13); Calibrated: Jul. 29,2020;
• Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: Apr. 23,2020
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

BODY/FRONT/Area Scan (7x12x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.576 W/kg

BODY/FRONT/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 24.128 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 0.693 W/kg
SAR(1 g) = 0.531 W/kg; SAR(10 g) = 0.384 W/kg
Maximum value of SAR (measured) = 0.592 W/kg



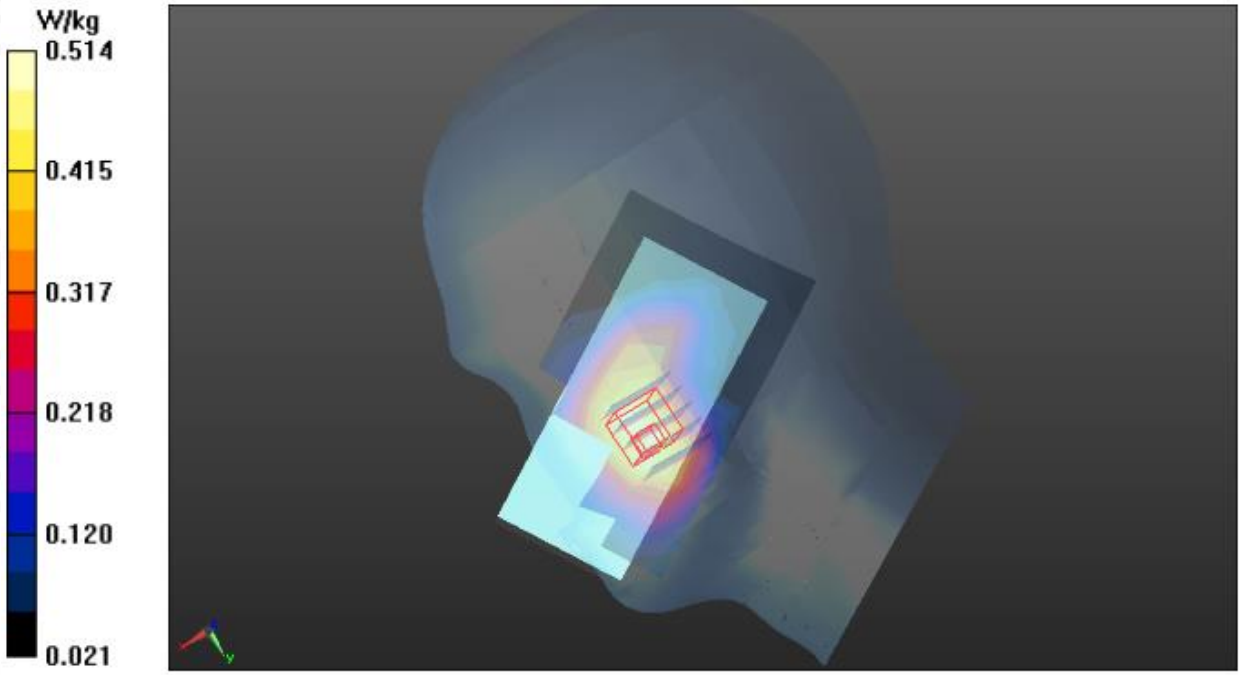
Test Laboratory: AGC Lab **Date: Feb. 27,2021**
LTE Band 2 Mid-Touch-Right<SIM 1>
DUT: Smart phone; Type: M7

Communication System: LTE; Communication System Band: LTE Band 2; Duty Cycle: 1:1;
Frequency: 1880 MHz; Medium parameters used: f = 1900 MHz; σ = 1.39 mho/m; ε_r =40.59; ρ= 1000 kg/m³ ;
Phantom section: Right Section
Ambient temperature (℃): 20.9, Liquid temperature (℃): 20.7

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(8.32, 8.32, 8.32); Calibrated: Jul. 29,2020;
• Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: Apr. 23,2020
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

RIGHT HEAD/R-C/Area Scan (7x12x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.508 W/kg

RIGHT HEAD/R-C/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 5.285 V/m; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 0.659 W/kg
SAR(1 g) = 0.448 W/kg; SAR(10 g) = 0.300 W/kg
Maximum value of SAR (measured) = 0.514 W/kg



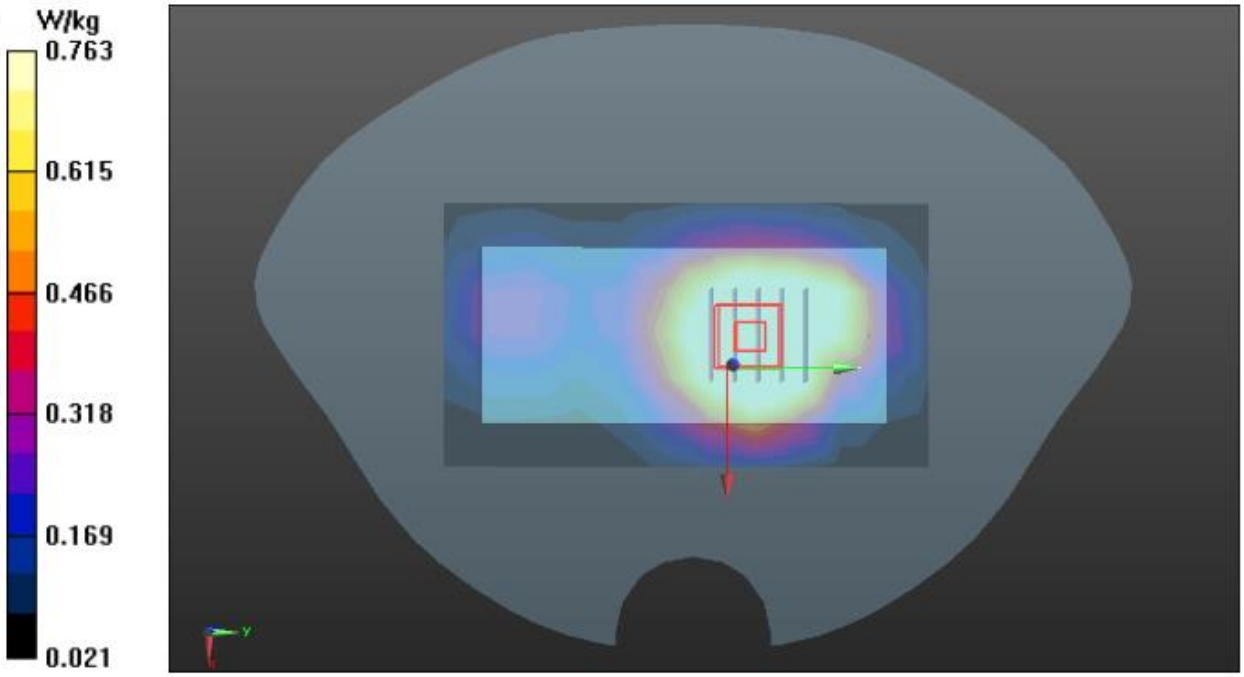
Test Laboratory: AGC Lab **Date: Feb. 27,2021**
LTE Band 2 Mid-Body- Back (1 RB#0)
DUT: Smart phone; Type: M7

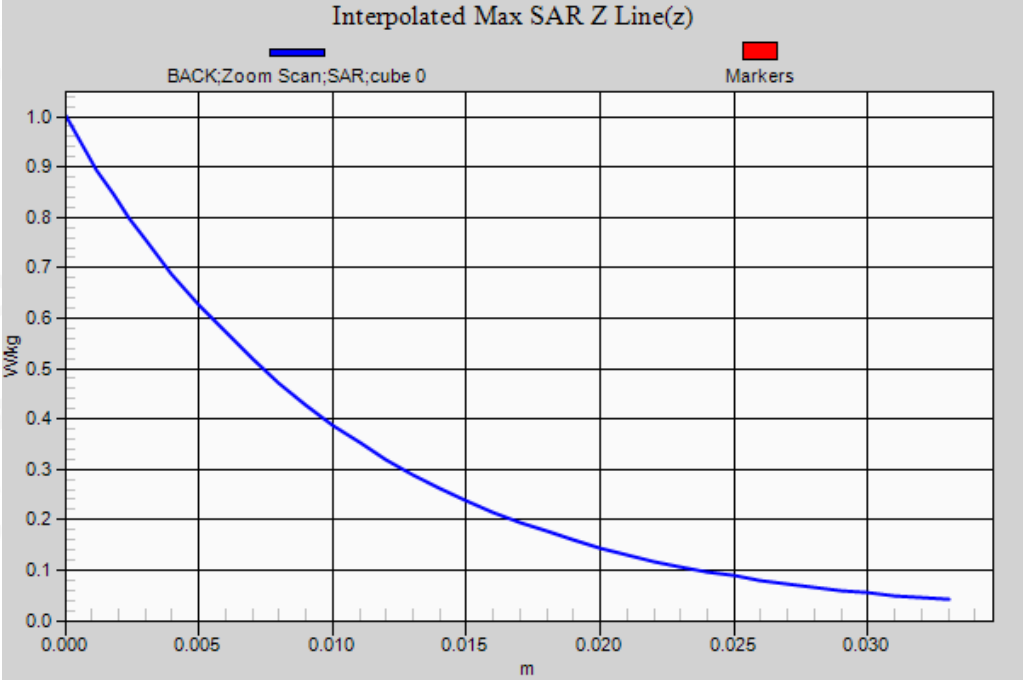
Communication System: LTE; Communication System Band: LTE Band 2; Duty Cycle: 1:1;
Frequency: 1880 MHz; Medium parameters used: f = 1900 MHz; σ = 1.39 mho/m; ε_r =40.59; ρ= 1000 kg/m^3 ;
Phantom section: Flat Section
Ambient temperature (℃): 20.9, Liquid temperature (℃): 20.7

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(8.32, 8.32, 8.32); Calibrated: Jul. 29,2020;
• Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: Apr. 23,2020
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

BODY/BACK/Area Scan (7x12x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.31 W/kg

BODY/BACK/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 23.741 V/m; Power Drift = -0.12 dB
Peak SAR (extrapolated) = 1.00 W/kg
SAR(1 g) = 0.645 W/kg; SAR(10 g) = 0.404 W/kg
Maximum value of SAR (measured) = 0.763 W/kg





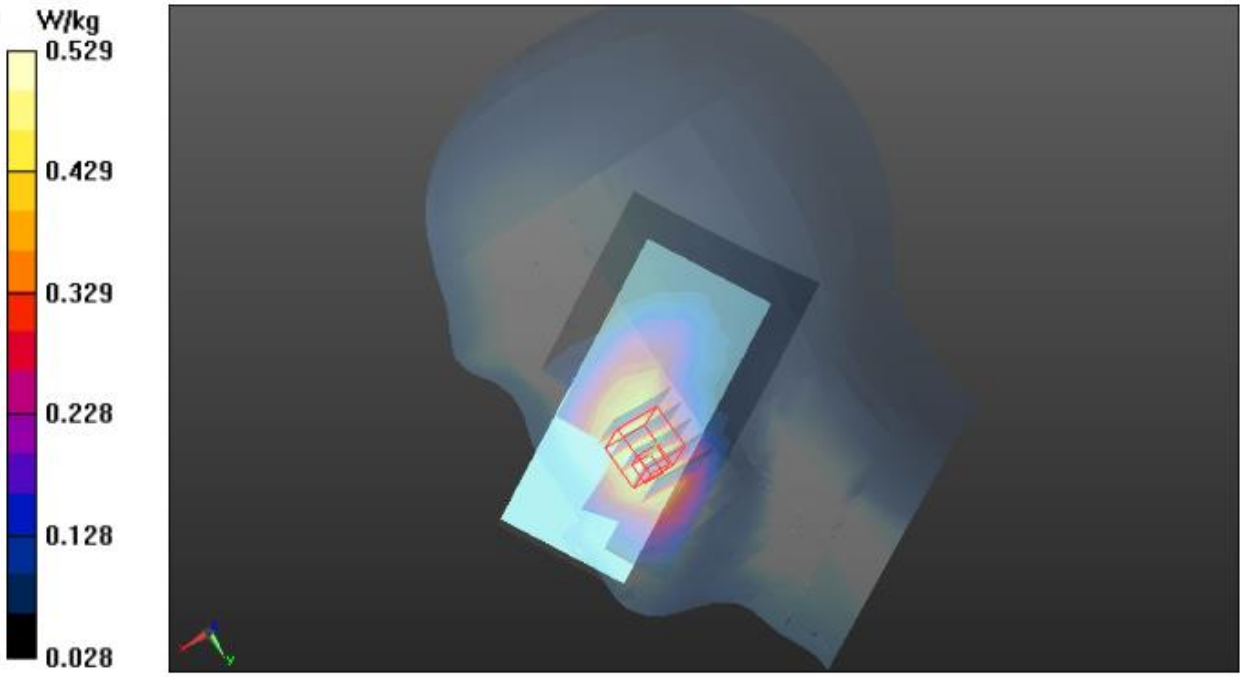
Test Laboratory: AGC Lab **Date: Feb. 24,2021**
LTE Band 4 Mid-Touch-Right(1 RB#0)
DUT: Smart phone; Type: M7

Communication System: LTE; Communication System Band: LTE Band 4; Duty Cycle:1:1;
Frequency:1732.5 MHz; Medium parameters used: f =1750 MHz; σ = 1.35 mho/m; ε_r =40.39; ρ = 1000 kg/m^3 ;
Phantom section: Right Section
Ambient temperature (℃): 21.6, Liquid temperature (℃): 21.3

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(8.61, 8.61, 8.61); Calibrated: Jul. 29,2020;
• Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: Apr. 23,2020
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

RIGHT HEAD/R-C/Area Scan (7x12x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.535 W/kg

RIGHT HEAD/R-C/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 4.264 V/m; Power Drift = 0.16 dB
Peak SAR (extrapolated) = 0.653 W/kg
SAR(1 g) = 0.466 W/kg; SAR(10 g) = 0.318 W/kg
Maximum value of SAR (measured) = 0.529 W/kg



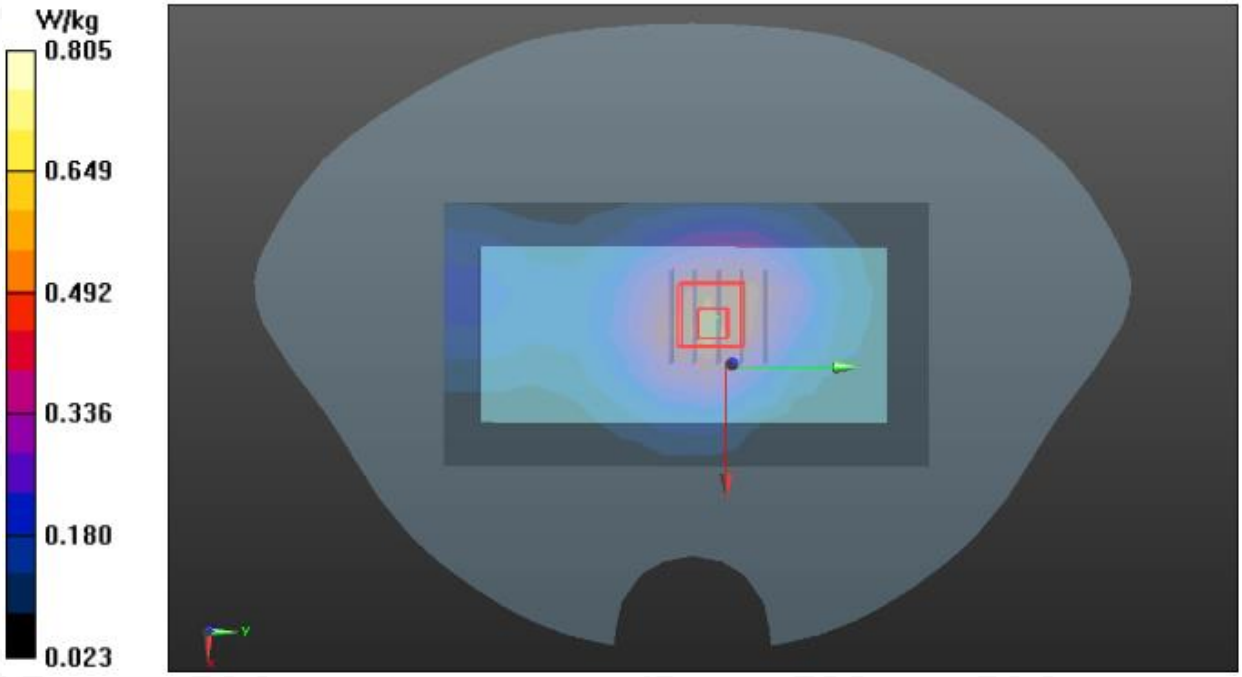
Test Laboratory: AGC Lab **Date: Feb. 24,2021**
LTE Band 4 Mid-Body-Back (1 RB#0)
DUT: Smart phone; Type: M7

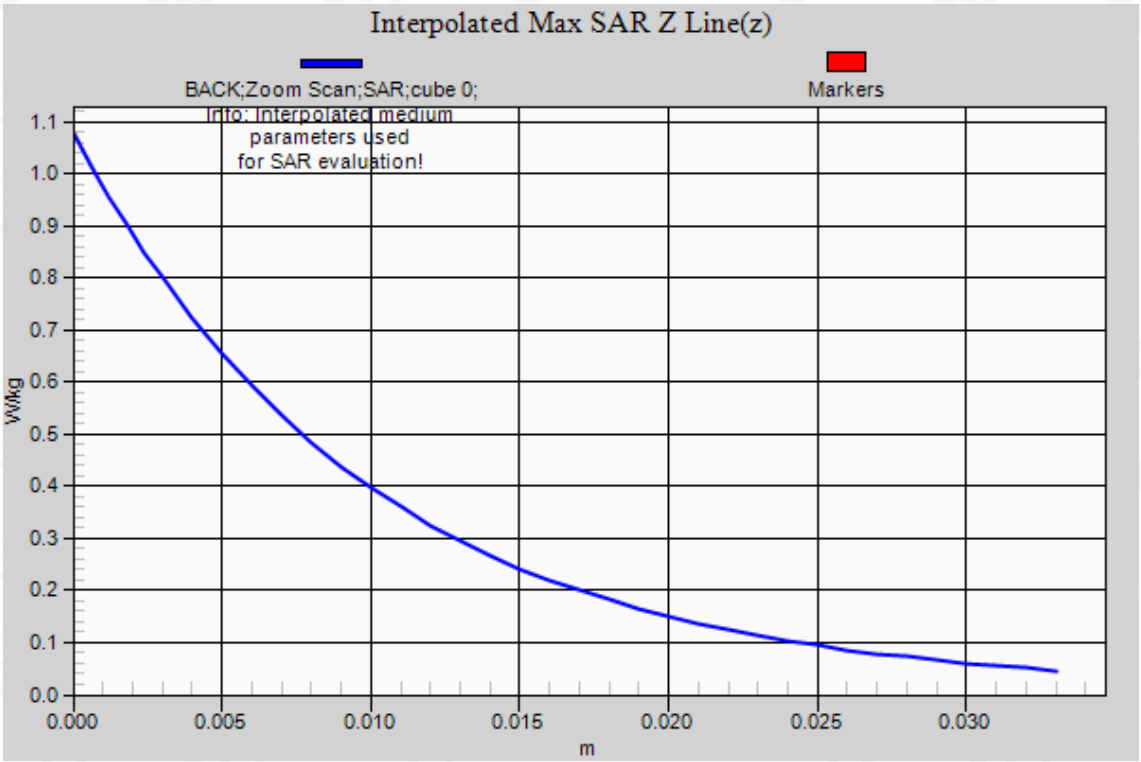
Communication System: LTE; Communication System Band: LTE Band 4; Duty Cycle:1:1;
Frequency:1732.5 MHz; Medium parameters used: f = 1750 MHz; σ = 1.35 mho/m; ε r =40.39; ρ = 1000 kg/m^3 ;
Phantom section: Flat Section
Ambient temperature (℃): 21.6, Liquid temperature (℃): 21.3

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(8.61, 8.61, 8.61); Calibrated: Jul. 29,2020;
• Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: Apr. 23,2020
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

BODY/BACK/Area Scan (7x12x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.532 W/kg

BODY/BACK/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 20.179 V/m; Power Drift = 0.16 dB
Peak SAR (extrapolated) = 1.08 W/kg
SAR(1 g) = 0.685 W/kg; SAR(10 g) = 0.432 W/kg
Maximum value of SAR (measured) = 0.805 W/kg





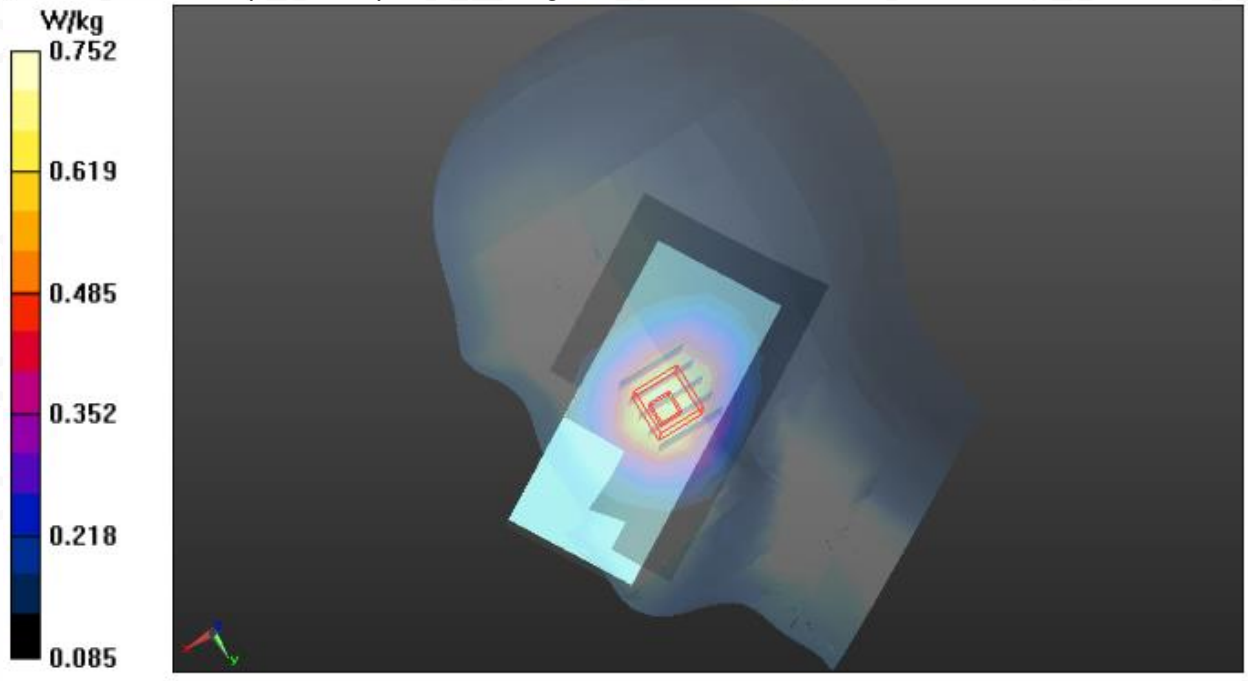
Test Laboratory: AGC Lab **Date: Feb. 24,2021**
LTE Band 5 Mid-Touch-Right (1 RB#0)
DUT: Smart phone; Type: M7

Communication System: LTE; Communication System Band: LTE Band 5; Duty Cycle:1:1;
Frequency: 836.5 MHz; Medium parameters used: f = 835 MHz; σ=0.93 mho/m; εr =40.73; ρ= 1000 kg/m³ ;
Phantom section: Right Section
Ambient temperature (℃): 21.4, Liquid temperature (℃): 21.1

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(10.13, 10.13, 10.13); Calibrated: Jul. 29,2020;
• Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: Apr. 23,2020
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

RIGHT HEAD/R-C/Area Scan (7x12x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.708 W/kg

RIGHT HEAD/R-C/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 9.918 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 0.863 W/kg
SAR(1 g) = 0.686 W/kg; SAR(10 g) = 0.500 W/kg
Maximum value of SAR (measured) = 0.752 W/kg



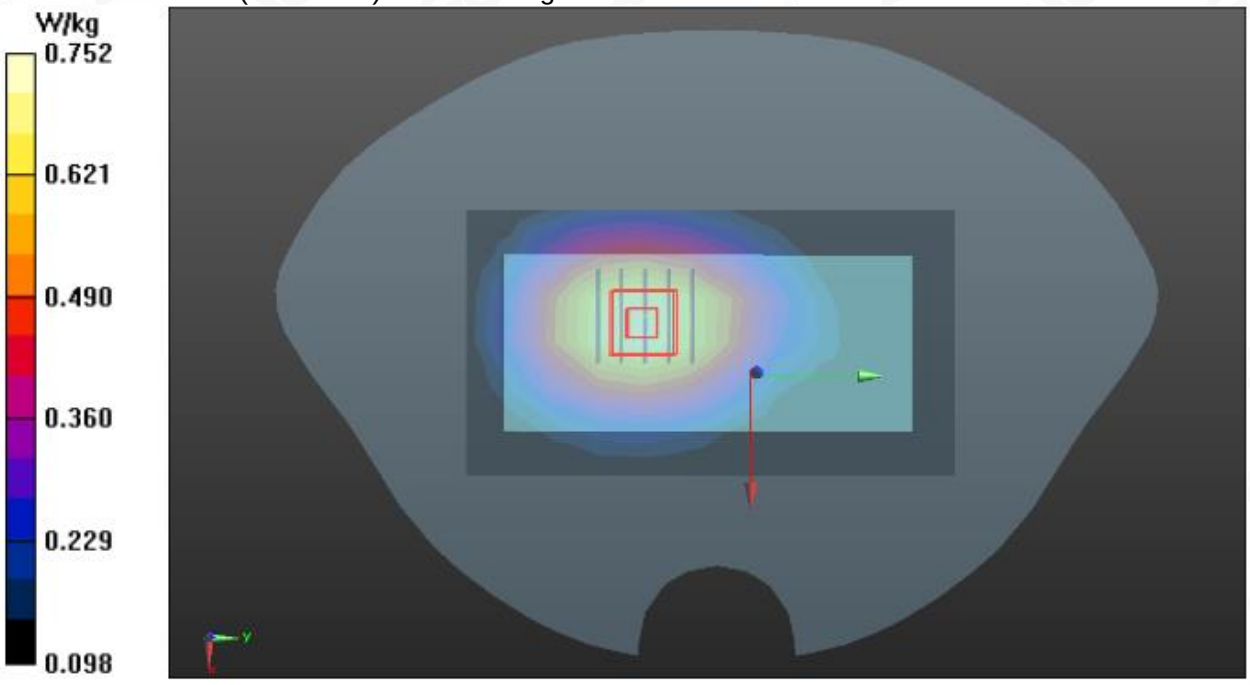
Test Laboratory: AGC Lab **Date: Feb. 24,2021**
LTE Band 5 Mid-Body-Back (1 RB#0)
DUT: Smart phone; Type: M7

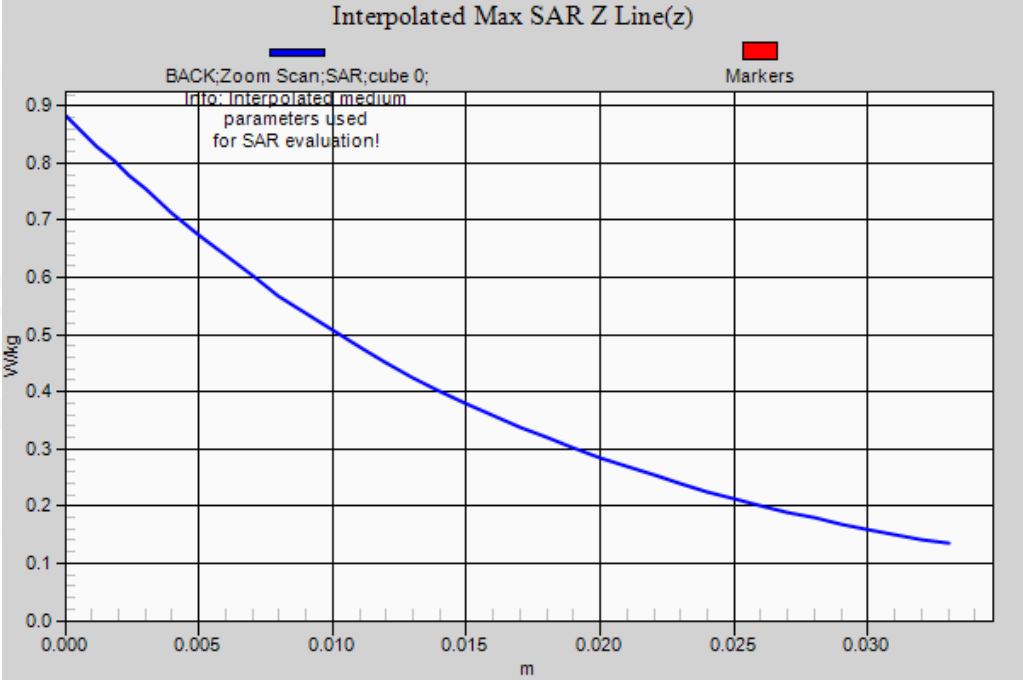
Communication System: LTE; Communication System Band: LTE Band 5; Duty Cycle:1:1;
Frequency:836.5 MHz; Medium parameters used: f = 835 MHz; σ=0.93mho/m; εr =40.73; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 21.4, Liquid temperature (℃): 21.1

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(10.13, 10.13, 10.13); Calibrated: Jul. 29,2020;
• Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: Apr. 23,2020
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

BODY/BACK/Area Scan (7x12x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.721 W/kg

BODY/BACK/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 24.849 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 0.882 W/kg
SAR(1 g) = 0.673 W/kg; SAR(10 g) = 0.488 W/kg
Maximum value of SAR (measured) = 0.752 W/kg





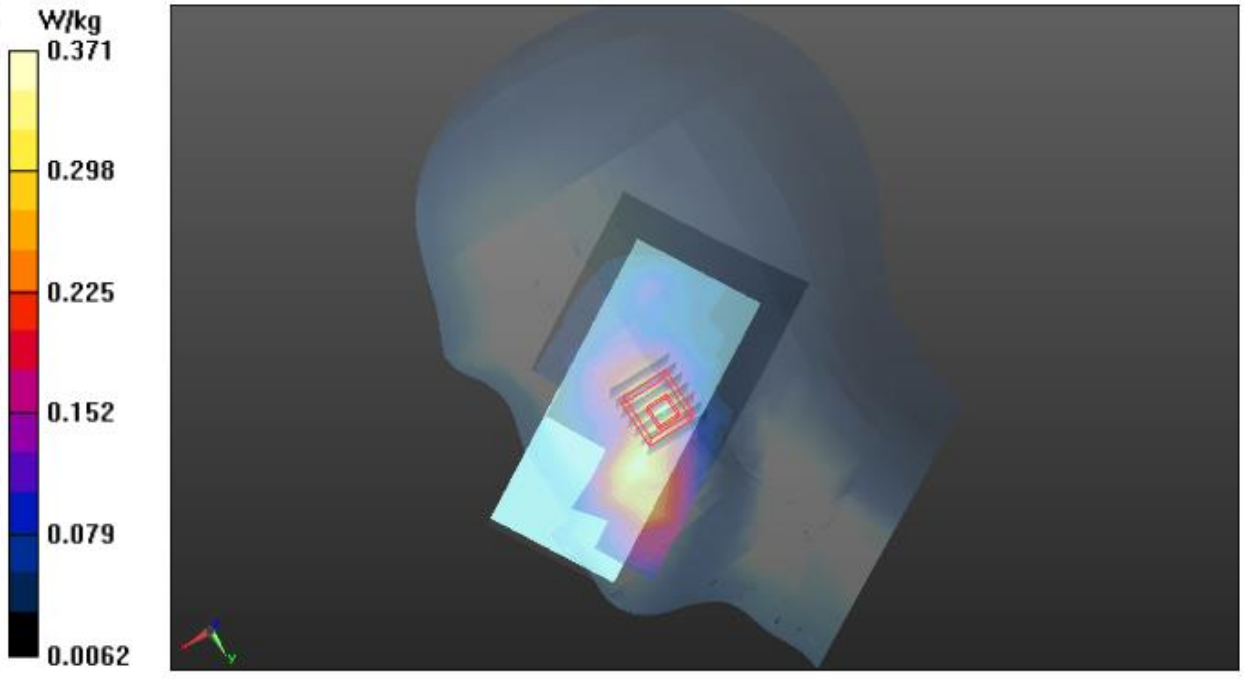
Test Laboratory: AGC Lab **Date: Feb. 18,2021**
LTE Band 7 Mid-Touch-Right (1RB#0)
DUT: Smart phone; Type: M7

Communication System: LTE; Communication System Band: LTE Band 7; Duty Cycle:1:1;
Frequency: 2535MHz; Medium parameters used: f =2600 MHz; σ=1.90 mho/m; εr =40.12; ρ= 1000 kg/m³ ;
Phantom section: Right Section
Ambient temperature (℃): 19.9, Liquid temperature (℃): 19.7

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(7.45, 7.45, 7.45); Calibrated: Jul. 29,2020;
• Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: Apr. 23,2020
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

RIGHT HEAD/R-C/Area Scan (7x12x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.366 W/kg

RIGHT HEAD/R-C/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 4.646 V/m; Power Drift = 0.18 dB
Peak SAR (extrapolated) = 0.565 W/kg
SAR(1 g) = 0.293 W/kg; SAR(10 g) = 0.154 W/kg
Maximum value of SAR (measured) = 0.371 W/kg



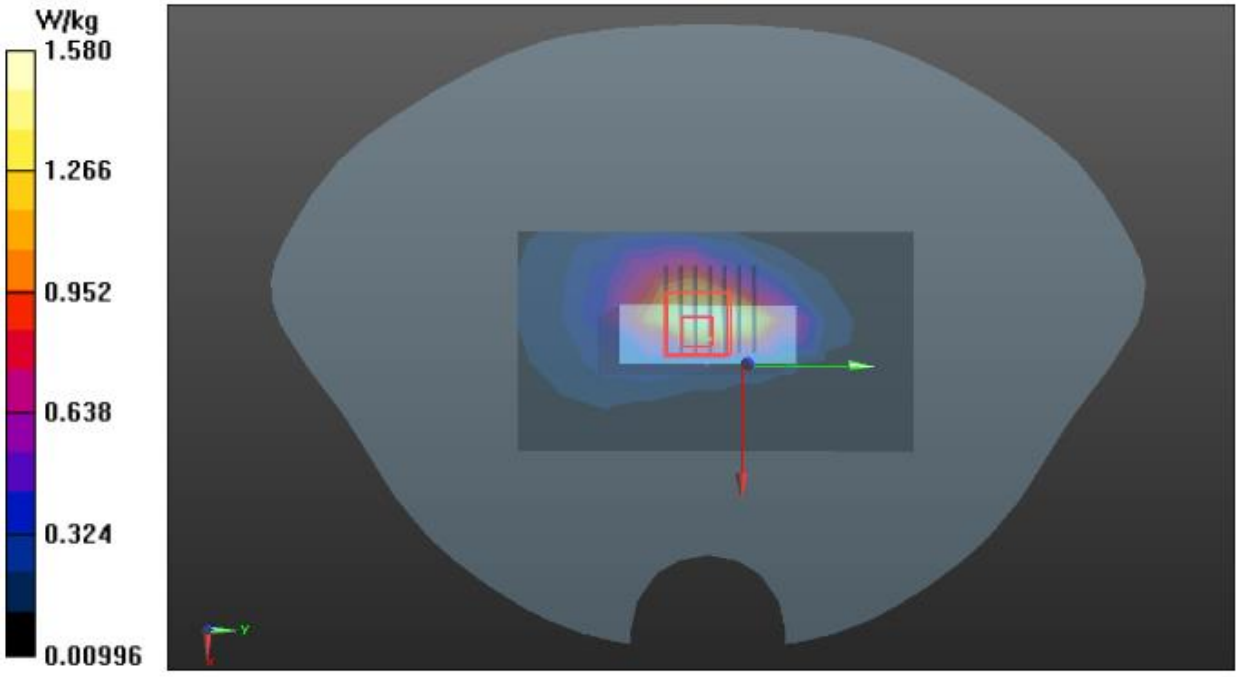
Test Laboratory: AGC Lab **Date: Feb. 18,2021**
LTE Band 7 Mid-Body- Edge 3(Bottom) (1RB#0)
DUT: Smart phone; Type: M7

Communication System: LTE; Communication System Band: LTE Band 7; Duty Cycle:1:1;
Frequency: 2535MHz; Medium parameters used: f =2600 MHz; σ=1.90 mho/m; εr =40.12; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 19.9, Liquid temperature (℃): 19.7

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(7.45, 7.45, 7.45); Calibrated: Jul. 29,2020;
• Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: Apr. 23,2020
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

BODY 2/3/Area Scan (6x10x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.68 W/kg

BODY 2/3/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 26.124 V/m; Power Drift = 0.16 dB
Peak SAR (extrapolated) = 2.53 W/kg
SAR(1 g) = 1.25 W/kg; SAR(10 g) = 0.612 W/kg
Maximum value of SAR (measured) = 1.58 W/kg



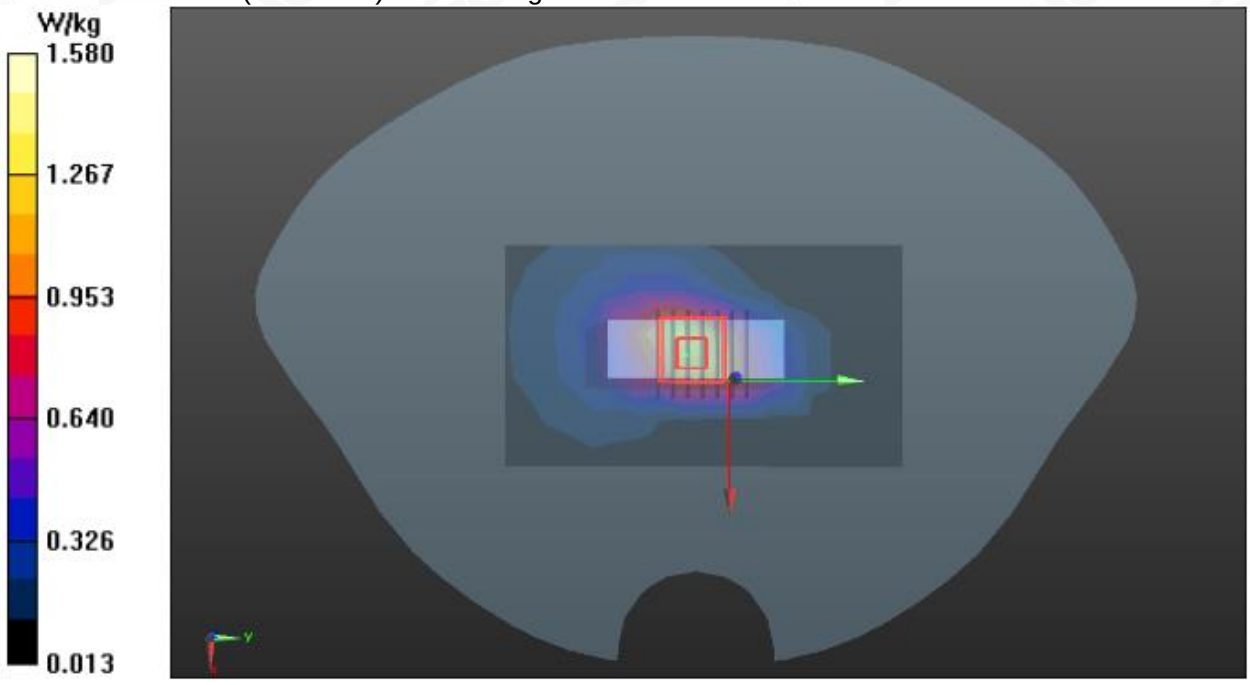
Test Laboratory: AGC Lab **Date: Feb. 18,2021**
LTE Band 7 High-Body- Edge 3(Bottom) (1RB#0)
DUT: Smart phone; Type: M7

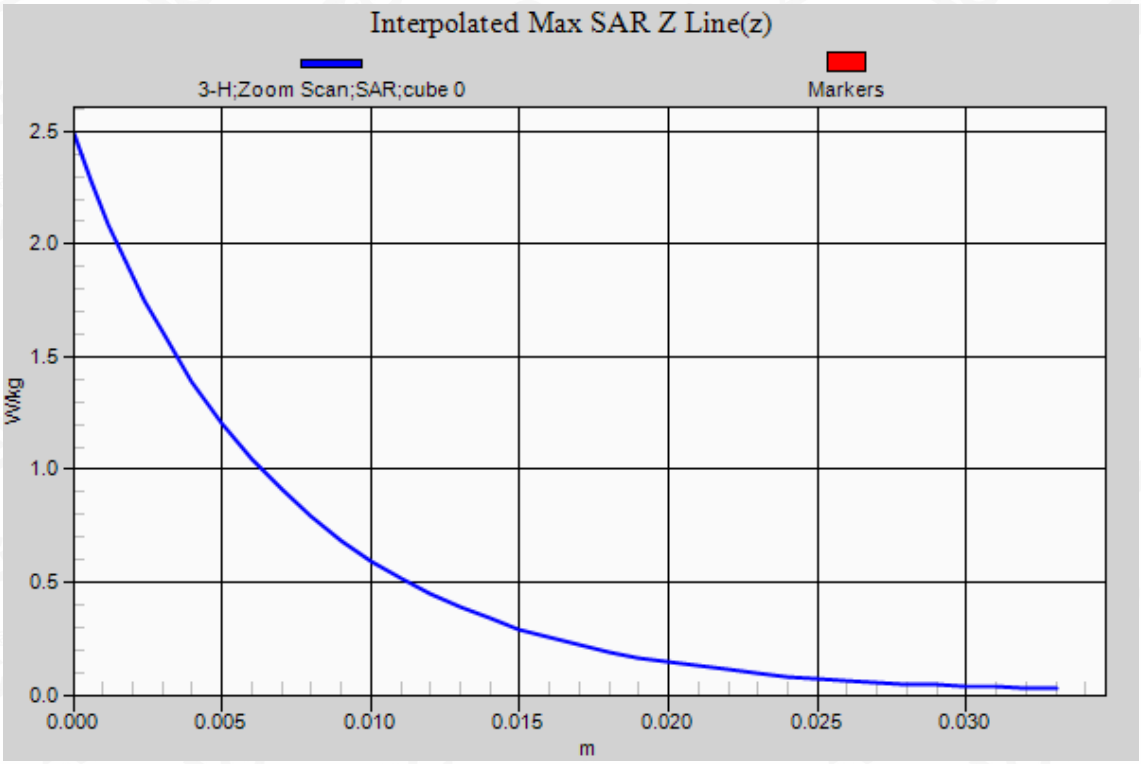
Communication System: LTE; Communication System Band: LTE Band 7; Duty Cycle:1:1;
Frequency: 2560MHz; Medium parameters used: f =2600 MHz; σ=1.92 mho/m; εr =39.26; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 19.9, Liquid temperature (℃): 19.7

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(7.45, 7.45, 7.45); Calibrated: Jul. 29,2020;
• Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: Apr. 23,2020
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

BODY 2/3-H/Area Scan (6x10x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.33 W/kg

BODY 2/3-H/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 28.526 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 2.49 W/kg
SAR(1 g) = 1.25 W/kg; SAR(10 g) = 0.613 W/kg
Maximum value of SAR (measured) = 1.58 W/kg





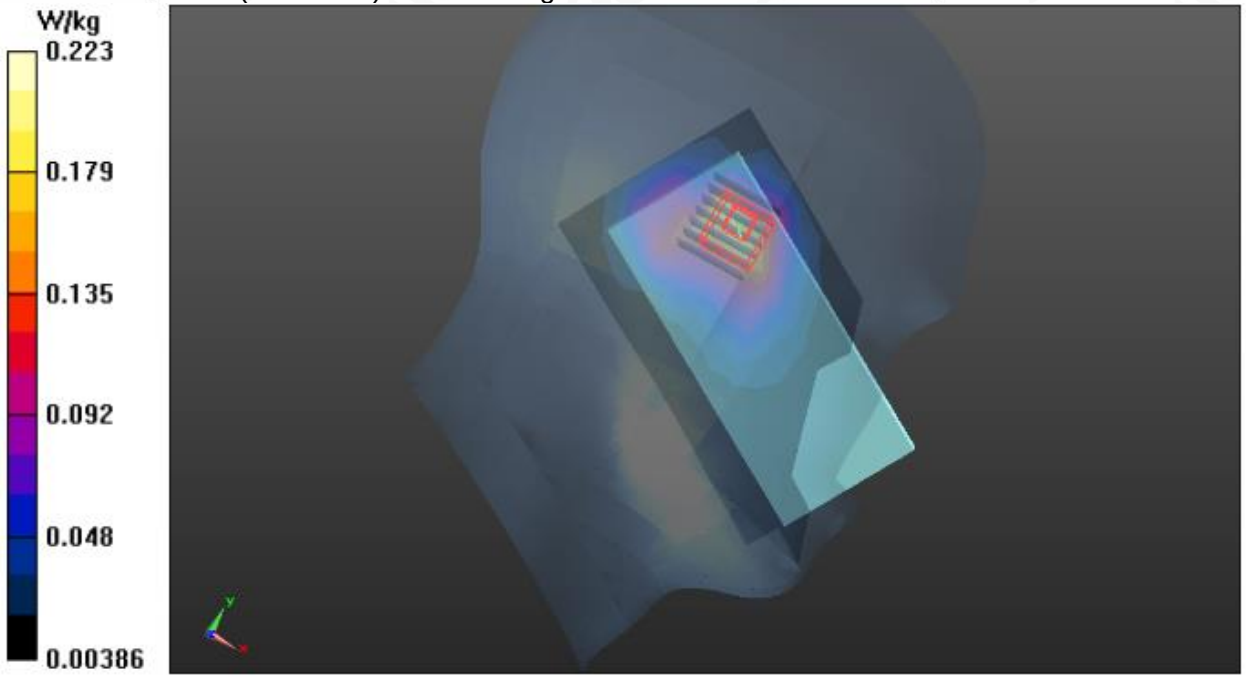
2.4GHz WIFI MODE
Test Laboratory: AGC Lab **Date: Feb. 26,2021**
802.11b Mid-Touch-Left
DUT: Smart phone; Type: M7

Communication System: Wi-Fi; Communication System Band: 802.11b; Duty Cycle: 1:1;
Frequency: 2437 MHz; Medium parameters used: f = 2450 MHz; σ=1.80 mho/m; εr =40.53;ρ= 1000 kg/m³ ;
Phantom section: Left Section
Ambient temperature (℃): 20.8, Liquid temperature (℃): 20.5

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(7.66, 7.66, 7.66); Calibrated: Jul. 29,2020;
• Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: Apr. 23,2020
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

LEFT HEAD/L-C/Area Scan (7x12x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.191 W/kg

LEFT HEAD/L-C/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 8.273 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 0.331 W/kg
SAR(1 g) = 0.179 W/kg; SAR(10 g) = 0.095 W/kg
Maximum value of SAR (measured) = 0.223 W/kg



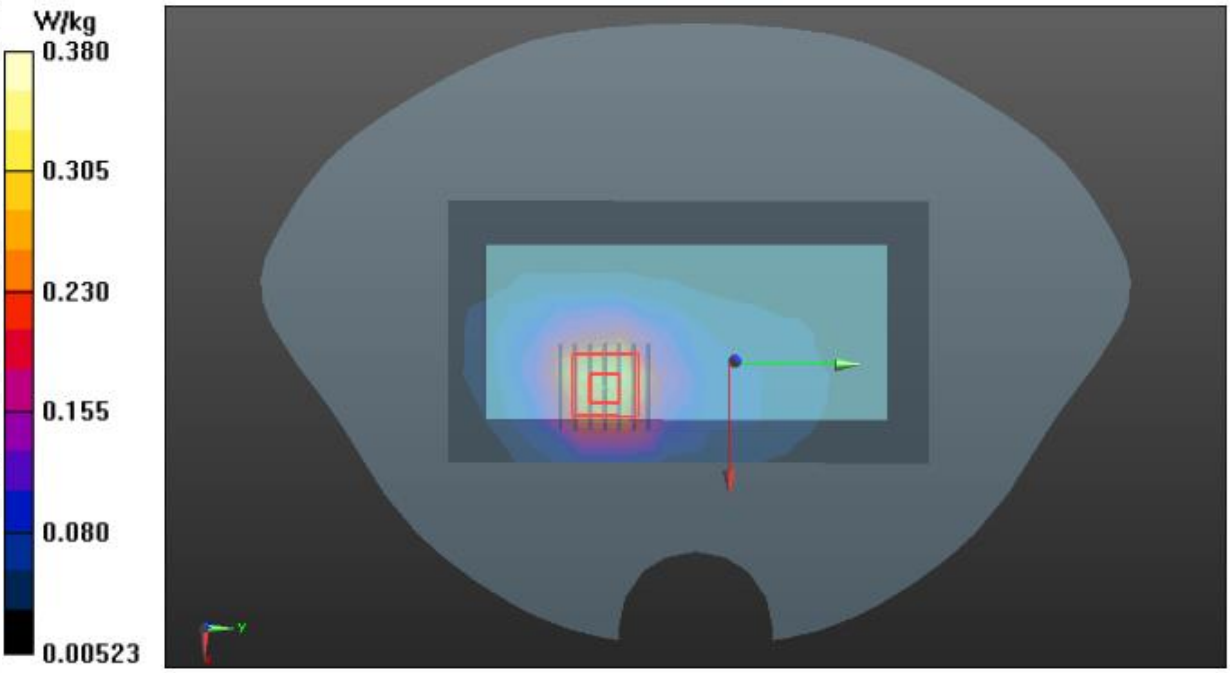
Test Laboratory: AGC Lab **Date: Feb. 26,2021**
802.11b Mid- Body- Back (DTS)
DUT: Smart phone; Type: M7

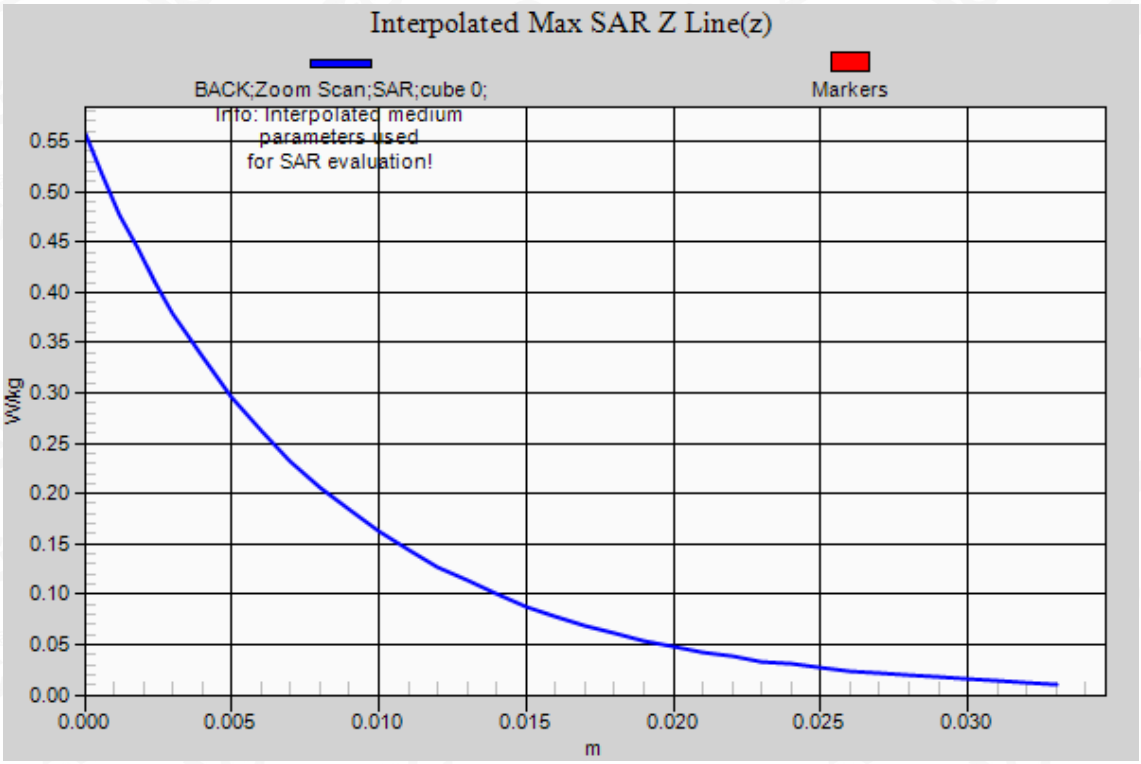
Communication System: Wi-Fi; Communication System Band: 802.11b; Duty Cycle: 1:1;
Frequency: 2437 MHz; Medium parameters used: f = 2450 MHz; σ=1.80 mho/m; εr =40.53;; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 20.8, Liquid temperature (℃): 20.5

DASY Configuration:
• Probe: EX3DV4 – SN:3953; ConvF(7.66, 7.66, 7.66); Calibrated: Jul. 29,2020;
• Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: Apr. 23,2020
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

BODY/BACK/Area Scan (7x12x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.339 W/kg

BODY/BACK/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 6.136 V/m; Power Drift = -0.11 dB
Peak SAR (extrapolated) = 0.557 W/kg
SAR(1 g) = 0.307 W/kg; SAR(10 g) = 0.167 W/kg
Maximum value of SAR (measured) = 0.380 W/kg





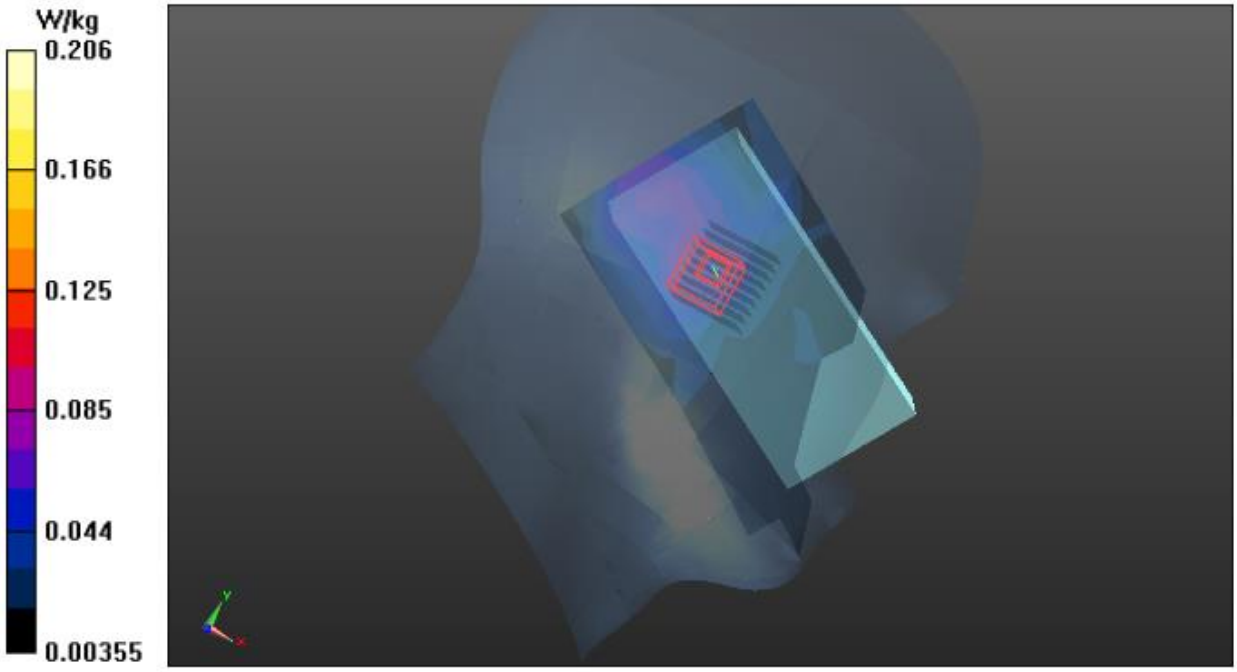
5.2GHz (U-NII-1)
Test Laboratory: AGC Lab **Date: Feb. 25,2021**
5.2GHz -802.11n(40) CH46- Mid- Tilt -Left
DUT: Smart phone; Type: M7

Communication System: Wi-Fi; Communication System Band: 802.11n(40); Duty Cycle: 1:1;
Frequency: 5230 MHz; Medium parameters used: f = 5250 MHz; σ=4.69 mho/m; εr =35.62;ρ= 1000 kg/m³ ;
Phantom section: Left Section
Ambient temperature (℃): 21.2, Liquid temperature (℃): 21.0

DASY Configuration:
• Probe: EX3DV4 – SN3953; ConvF(5.53, 5.53, 5.53); Calibrated: Jul. 29,2020
• Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: Apr. 23,2020
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

LEFT HEAD/L-T/Area Scan (7x12x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.0966 W/kg

LEFT HEAD/L-T/Zoom Scan (9x9x16)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 3.546 V/m; Power Drift = 0.18 dB
Peak SAR (extrapolated) = 0.683 W/kg
SAR(1 g) = 0.096 W/kg; SAR(10 g) = 0.034 W/kg
Maximum value of SAR (measured) = 0.206 W/kg



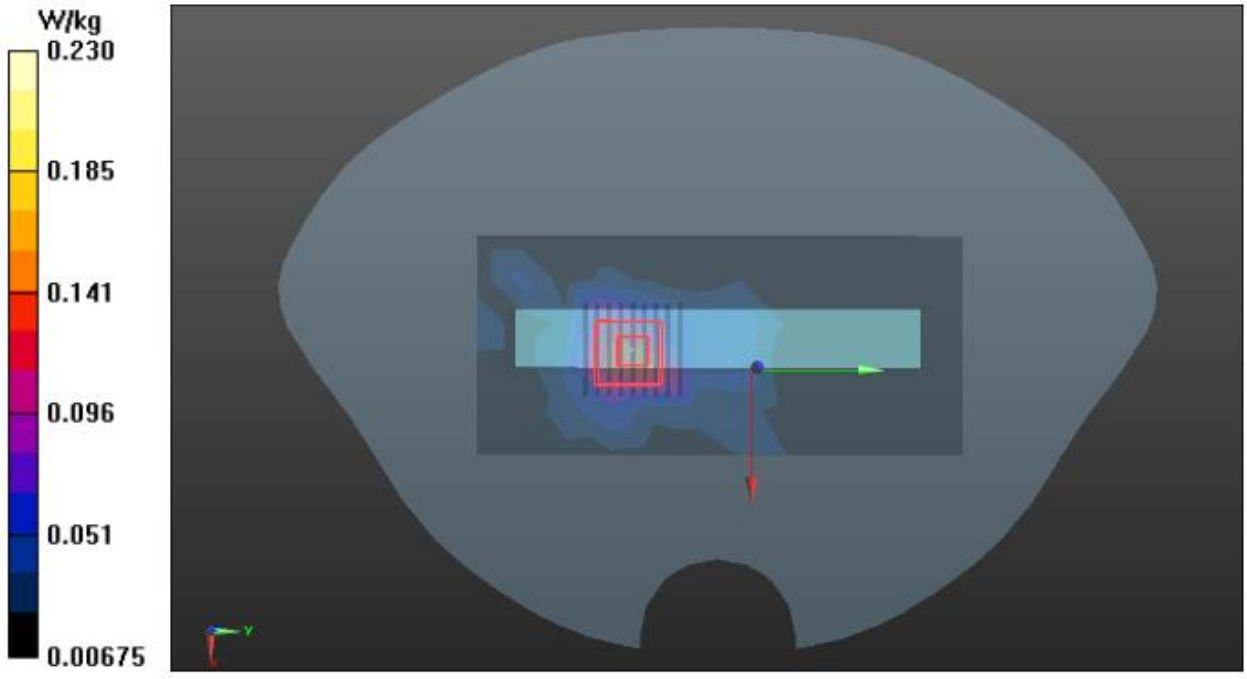
Test Laboratory: AGC Lab **Date: Feb. 25,2021**
5.2GHz -802.11n(40) CH46- Edge 4(Left)
DUT: Smart phone; Type: M7

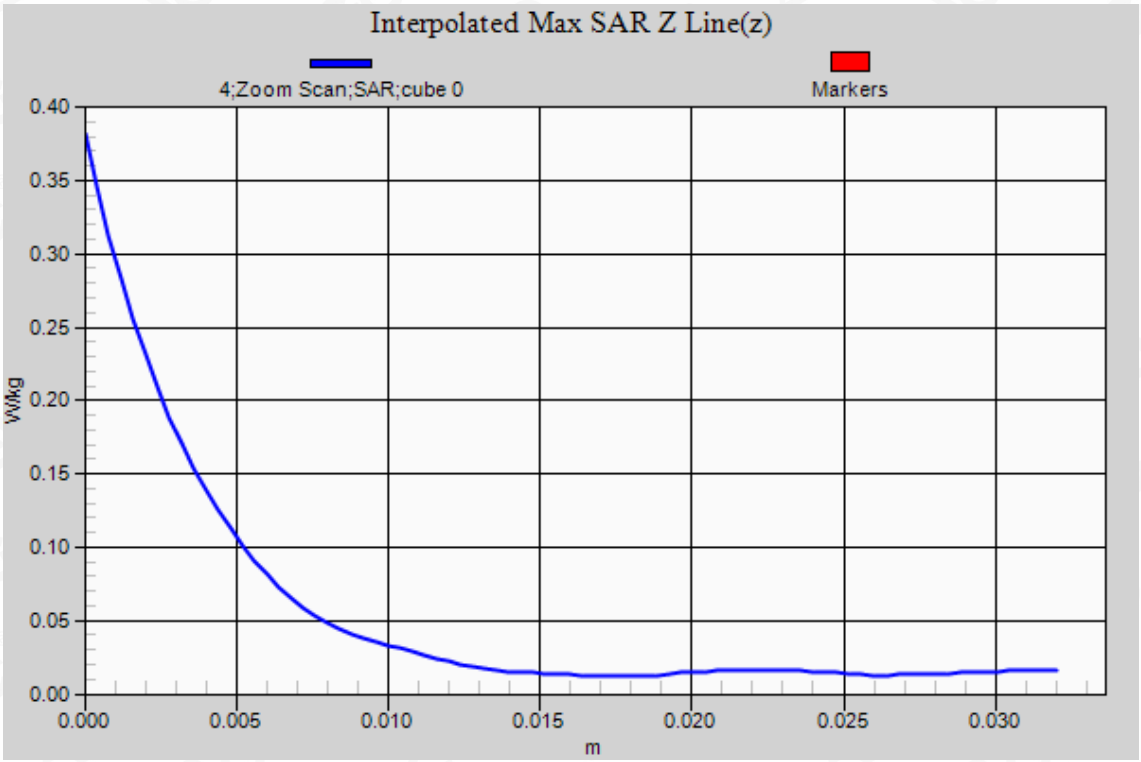
Communication System: Wi-Fi; Communication System Band: 802.11n(40); Duty Cycle: 1:1
Frequency: 5230 MHz; Medium parameters used: f = 5250 MHz; σ=4.69 mho/m; εr =35.62; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 21.2, Liquid temperature (℃): 21.0

DASY Configuration:
• Probe: EX3DV4 – SN3953; ConvF(5.53, 5.53, 5.53); Calibrated: Jul. 29,2020
• Sensor-Surface: 1.4mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: Apr. 23,2020
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

BODY/4/Area Scan (6x12x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.144 W/kg

BODY/4/Zoom Scan (9x9x16)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 3.788 V/m; Power Drift = 0.15 dB
Peak SAR (extrapolated) = 0.382 W/kg
SAR(1 g) = 0.124 W/kg; SAR(10 g) = 0.051 W/kg
Maximum value of SAR (measured) = 0.230 W/kg





5.8GHz (U-NII-3)
Test Laboratory: AGC Lab **Date: Feb. 20,2021**
5.8GHz -802.11ac(40) CH151-Mid-Touch- Right
DUT: Smart phone; Type: M7

Communication System: Wi-Fi; Communication System Band: 802.11ac(40); Duty Cycle: 1:1;
Frequency: 5755 MHz; Medium parameters used: f = 5750 MHz; σ=5.35 mho/m; εr =37.12;ρ= 1000 kg/m³ ;
Phantom section: Right Section
Ambient temperature (℃): 21.2, Liquid temperature (℃): 21.0

DASY Configuration:
• Probe: EX3DV4 – SN3953; ConvF(4.99, 4.99, 4.99); Calibrated: Jul. 29,2020;
• Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: Apr. 23,2020
• Phantom: SAM (20deg probe tilt) with CRP v5.0; Type: QD000P40CD;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

RIGHT HEAD/R-C/Area Scan (7x12x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.648 W/kg

RIGHT HEAD/R-C/Zoom Scan (9x9x16)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 5.546 V/m; Power Drift = -0.15 dB
Peak SAR (extrapolated) = 1.47 W/kg
SAR(1 g) = 0.380 W/kg; SAR(10 g) = 0.202 W/kg
Maximum value of SAR (measured) = 0.642 W/kg