

SAR TEST REPORT



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

Product Name	Notebook Computer
Brand Name	acer
Model No.	N22Q1
Applicant	Acer Incorporated 8F., No. 88, Sec. 1, Xintai 5th Rd., Xizhi, New Taipei City 22181, Taiwan (R.O.C)
Standards	IEEE/ANSI C95.1-1992, IEEE 1528-2013
FCC ID	HLZAX201NG
Date of Receipt	Feb. 22, 2022
Date of Test(s)	Mar. 27, 2022 ~ Apr. 01, 2022
Date of Issue	Apr. 08, 2022

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

Remarks:

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

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Signed on behalf of SGS

Clerk / Ruby Ou	PM / Tom Chiang	Asst. Manager / John Yeh
Ruby Ou	Tom Chiang	John Teh

Date: Apr. 08, 2022

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
E5/2022/30001	Rev.00	Initial creation of document	Apr. 08, 2022	Ruby Ou	

Note:

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

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0. Guidance applied

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

IEEE/ANSI C95.1-1992

IEEE 1528-2013

KDB248227D01v02r02

KDB865664D01v01r04

KDB865664D02v01r02

KDB447498D01v06

KDB616217D04v01r02

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1. General Information

1.1 Testing Laboratory

SGS Taiwan Ltd. Central RF Lab	
No. 2, Keji 1st Rd., Guishan Township, Taoyuan County, 33383, Taiwan	
FCC Designation Number	TW0028
Tel	+886-2-2299-3279
Fax	+886-2-2298-0488
Internet	http://www.tw.sgs.com/

1.2 Details of Applicant

Company Name	Acer Incorporated
Company Address	8F., No. 88, Sec. 1, Xintai 5th Rd., Xizhi, New Taipei City 22181, Taiwan (R.O.C)

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1.3 Description of EUT

General Information of Host:

Equipment Under Test	Notebook Computer	
Brand Name	<i>acer</i>	
Model No.	N22Q1	
Integrated Module	Brand Name: Intel Model Name: AX201NGW	
FCC ID	HLZAX201NG	
Mode of Operation	<input checked="" type="checkbox"/> WLAN802.11 <input checked="" type="checkbox"/> Bluetooth	
Duty Cycle	WLAN802.11	Refer to page 29-32
	Bluetooth	77.2%
TX Frequency Range (MHz)	WLAN	2412 ~ 2472, 5180 ~ 5240, 5260 ~ 5320, 5500 ~ 5720, 5745 ~ 5825
	Bluetooth	2402 ~ 2480

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Summary of Maximum SAR Value	
Mode	Highest SAR1g Body (W/kg)
2.4G WLAN	1.10
5G WLAN	1.18
Bluetooth(GFSK)	0.53

Notebook mode

Vendor	WNC									
Antenna	Main					Aux				
Part Number	DQ6S15G3400					DQ6S15G3400				
Frequency(MHz)	2400~2500	5150~5250	5250~5350	5470~5725	5725~5850	2400~2500	5150~5250	5250~5350	5470~5725	5725~5850
Gain (dBi)	2.72	2.29	2.29	0.86	1.74	2.36	2.65	0.94	1.31	1.32

Tablet mode

Vendor	WNC									
Antenna	Main					Aux				
Part Number	DQ6S15G3400					DQ6S15G3400				
Frequency(MHz)	2400~2500	5150~5250	5250~5350	5470~5725	5725~5850	2400~2500	5150~5250	5250~5350	5470~5725	5725~5850
Gain (dBi)	-2.68	2.23	2.23	2.47	2.47	-3.81	0.81	0.36	0.65	0.65

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WLAN conducted power table:
Notebook mode

Main (Chain B)						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2.45GHz	802.11b	1	2412	1Mbps	19.50	19.41
		6	2437		20.00	19.92
		11	2462		20.00	19.99
	802.11g	1	2412	6Mbps	17.00	16.92
		6	2437		20.00	19.88
		11	2462		17.50	16.38
	802.11n20-HT0	1	2412	MCS0	17.00	16.85
		6	2437		20.00	19.77
		11	2462		16.00	15.76
	802.11ac20-VHT0	1	2412	MCS0	17.00	16.66
		6	2437		20.00	19.71
		11	2462		16.00	15.72
	802.11ax20-HE0	1	2412	MCS0	17.00	16.76
		6	2437		20.00	19.70
		11	2462		16.00	15.86
	802.11n40-HT0	3	2422	MCS0	17.50	17.37
		6	2437		20.00	19.69
		9	2452		16.00	15.58
	802.11ac40-VHT0	3	2422	MCS0	17.50	17.24
		6	2437		20.00	19.89
		9	2452		16.00	15.89
	802.11ax40-HE0	3	2422	MCS0	16.50	16.30
		6	2437		16.50	16.36
		9	2452		16.00	15.81

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Main (Chain B)						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.15-5.25 GHz	802.11a	36	5180	6Mbps	18.00	17.69
		40	5200		18.00	17.63
		44	5220		18.00	17.71
		48	5240		18.00	17.78
	802.11n20-HT0	36	5180	MCS0	18.00	17.66
		40	5200		18.00	17.85
		44	5220		18.00	17.88
		48	5240		18.00	17.82
	802.11ac20-VHT0	36	5180	MCS0	18.00	17.74
		40	5200		18.00	17.59
		44	5220		18.00	17.77
		48	5240		18.00	17.75
	802.11ax20-HE0	36	5180	MCS0	18.00	17.67
		40	5200		18.00	17.64
		44	5220		18.00	17.68
		48	5240		18.00	17.65
	802.11n40-HT0	38	5190	MCS0	18.00	17.92
		46	5230		18.00	17.98
	802.11ac40-VHT0	38	5190	MCS0	18.00	17.82
		46	5230		18.00	17.84
802.11ax40-HE0	38	5190	MCS0	18.00	17.78	
	46	5230		18.00	17.72	
802.11ac80-VHT0	42	5210	MCS0	18.00	17.99	
802.11ax80-HE0	42	5210	MCS0	18.00	17.83	
802.11ac160-VHT0	50	5250	MCS0	15.00	14.77	
802.11ax160-HE0	50	5250	MCS0	15.00	14.83	

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Main (Chain B)						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.25-5.35 GHz	802.11a	52	5260	6Mbps	17.50	17.27
		56	5280		17.50	17.16
		60	5300		17.50	17.26
		64	5320		17.50	17.35
	802.11n20-HT0	52	5260	MCS0	17.50	17.25
		56	5280		17.50	17.38
		60	5300		17.50	17.40
		64	5320		17.50	17.37
	802.11ac20-VHT0	52	5260	MCS0	17.50	17.27
		56	5280		17.50	17.29
		60	5300		17.50	17.33
		64	5320		17.50	17.28
	802.11ax20-HE0	52	5260	MCS0	17.50	17.22
		56	5280		17.50	17.14
		60	5300		17.50	17.33
		64	5320		17.50	17.36
	802.11n40-HT0	54	5270	MCS0	17.50	17.46
		62	5310		16.50	16.49
	802.11ac40-VHT0	54	5270	MCS0	17.50	17.32
		62	5310		16.50	16.29
802.11ax40-HE0	54	5270	MCS0	17.50	17.28	
	62	5310		16.50	16.35	
802.11ac80-VHT0	58	5290	MCS0	17.50	17.49	
802.11ax80-HE0	58	5290	MCS0	17.50	17.33	

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Main (Chain B)						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.6GHz	802.11a	100	5500	6Mbps	16.50	16.20
		120	5600		16.50	16.21
		140	5700		16.50	16.34
		144	5720		16.50	16.35
	802.11n20-HT0	100	5500	MCS0	16.50	16.33
		120	5600		16.50	16.37
		140	5700		16.50	16.10
		144	5720		16.50	16.39
	802.11ac20-VHT0	100	5500	MCS0	16.50	16.36
		120	5600		16.50	16.24
		140	5700		16.50	16.31
		144	5720		16.50	16.36
	802.11ax20-HE0	100	5500	MCS0	16.50	16.29
		120	5600		16.50	16.38
		140	5700		16.50	16.35
		144	5720		16.50	16.29
	802.11n40-HT0	102	5510	MCS0	16.50	16.27
		118	5590		16.50	16.14
		134	5670		16.50	16.30
		142	5710		16.50	16.37
	802.11ac40-VHT0	102	5510	MCS0	16.50	16.13
		118	5590		16.50	16.07
		134	5670		16.50	16.19
		142	5710		16.50	16.05
	802.11ax40-HE0	102	5510	MCS0	16.50	16.38
		118	5590		16.50	16.24
		134	5670		16.50	16.22
		142	5710		16.50	16.27
	802.11ac80-VHT0	106	5530	MCS0	16.50	16.46
		122	5610		16.50	16.39
		138	5690		16.50	16.45
	802.11ax80-HE0	106	5530	MCS0	16.50	16.36
122		5610	16.50		16.33	
138		5690	16.50		16.28	
802.11ac160-VHT0	114	5570	MCS0	15.00	14.66	
802.11ax160-HE0	114	5570	MCS0	14.50	14.23	

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Main (Chain B)						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.8GHz	802.11a	149	5745	6Mbps	17.50	17.16
		157	5785		17.50	17.34
		165	5825		17.50	17.39
	802.11n20-HT0	149	5745	MCS0	17.50	17.33
		157	5785		17.50	17.23
		165	5825		17.50	17.26
	802.11ac20-VHT0	149	5745	MCS0	17.50	17.32
		157	5785		17.50	17.19
		165	5825		17.50	17.18
	802.11ax20-HE0	149	5745	MCS0	17.50	17.38
		157	5785		17.50	17.26
		165	5825		17.50	17.30
	802.11n40-HT0	151	5755	MCS0	17.50	17.42
		159	5795		17.50	17.47
	802.11ac40-VHT0	151	5755	MCS0	17.50	17.26
		159	5795		17.50	17.15
802.11ax40-HE0	151	5755	MCS0	17.50	17.22	
	159	5795		17.50	17.25	
802.11ac80-VHT0	155	5775	MCS0	17.50	17.44	
802.11ax80-HE0	155	5775	MCS0	17.50	17.27	

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Aux (Chain A)						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2.45GHz	802.11b	1	2412	1Mbps	17.50	17.49
		6	2437		17.50	17.48
		11	2462		17.50	17.47
	802.11g	1	2412	6Mbps	17.00	16.91
		6	2437		17.50	17.24
		11	2462		17.50	17.35
	802.11n20-HT0	1	2412	MCS0	17.00	16.83
		6	2437		17.50	17.43
		11	2462		16.50	16.44
	802.11ac20-VHT0	1	2412	MCS0	17.00	16.79
		6	2437		17.50	17.37
		11	2462		16.50	16.38
	802.11ax20-HE0	1	2412	MCS0	17.50	17.17
		6	2437		17.50	17.28
		11	2462		16.00	15.82
	802.11n40-HT0	3	2422	MCS0	17.00	16.71
		6	2437		17.50	17.33
		9	2452		16.00	15.75
	802.11ac40-VHT0	3	2422	MCS0	17.00	16.92
		6	2437		17.50	17.35
		9	2452		16.00	15.84
	802.11ax40-HE0	3	2422	MCS0	16.50	16.45
		6	2437		16.50	16.41
		9	2452		16.00	15.85

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Aux (Chain A)						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.15-5.25 GHz	802.11a	36	5180	6Mbps	18.50	18.19
		40	5200		18.50	18.11
		44	5220		18.50	18.12
		48	5240		18.50	18.21
	802.11n20-HT0	36	5180	MCS0	18.00	17.84
		40	5200		18.50	18.35
		44	5220		18.50	18.34
		48	5240		18.50	18.31
	802.11ac20-VHT0	36	5180	MCS0	18.00	17.75
		40	5200		18.50	18.26
		44	5220		18.50	18.29
		48	5240		18.50	18.24
	802.11ax20-HE0	36	5180	MCS0	18.00	17.78
		40	5200		18.50	18.33
		44	5220		18.50	18.31
		48	5240		18.50	18.27
	802.11n40-HT0	38	5190	MCS0	18.50	18.48
		46	5230		18.50	18.43
	802.11ac40-VHT0	38	5190	MCS0	18.50	18.28
		46	5230		18.50	18.26
802.11ax40-HE0	38	5190	MCS0	18.00	17.62	
	46	5230		18.50	18.13	
802.11ac80-VHT0	42	5210	MCS0	18.50	18.49	
802.11ax80-HE0	42	5210	MCS0	18.50	18.35	
802.11ac160-VHT0	50	5250	MCS0	15.00	14.85	
802.11ax160-HE0	50	5250	MCS0	15.00	14.79	

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Aux (Chain A)						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.25-5.35 GHz	802.11a	52	5260	6Mbps	17.00	16.71
		56	5280		17.00	16.60
		60	5300		17.00	16.62
		64	5320		17.00	16.69
	802.11n20-HT0	52	5260	MCS0	17.00	16.60
		56	5280		17.00	16.87
		60	5300		17.00	16.86
		64	5320		17.00	16.82
	802.11ac20-VHT0	52	5260	MCS0	17.00	16.72
		56	5280		17.00	16.76
		60	5300		17.00	16.82
		64	5320		17.00	16.73
	802.11ax20-HE0	52	5260	MCS0	17.00	16.61
		56	5280		17.00	16.88
		60	5300		17.00	16.81
		64	5320		17.00	16.84
	802.11n40-HT0	54	5270	MCS0	17.00	16.99
		62	5310		16.50	16.46
	802.11ac40-VHT0	54	5270	MCS0	17.00	16.83
		62	5310		16.50	16.40
802.11ax40-HE0	54	5270	MCS0	17.00	16.73	
	62	5310		16.50	16.37	
802.11ac80-VHT0	58	5290	MCS0	17.00	16.99	
802.11ax80-HE0	58	5290	MCS0	17.00	16.78	

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Aux (Chain A)						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.6GHz	802.11a	100	5500	6Mbps	17.50	17.13
		120	5600		17.50	17.17
		140	5700		17.50	17.35
		144	5720		17.50	17.30
	802.11n20-HT0	100	5500	MCS0	17.50	17.26
		120	5600		17.50	17.25
		140	5700		17.50	17.06
		144	5720		17.50	17.32
	802.11ac20-VHT0	100	5500	MCS0	17.50	17.23
		120	5600		17.50	17.17
		140	5700		17.50	17.25
		144	5720		17.50	17.30
	802.11ax20-HE0	100	5500	MCS0	17.50	17.23
		120	5600		17.50	17.32
		140	5700		17.50	17.22
		144	5720		17.50	17.28
	802.11n40-HT0	102	5510	MCS0	17.50	17.20
		118	5590		17.50	17.09
		134	5670		17.50	17.29
		142	5710		17.50	17.31
	802.11ac40-VHT0	102	5510	MCS0	17.50	17.18
		118	5590		17.50	17.07
		134	5670		17.50	17.10
		142	5710		17.50	17.01
	802.11ax40-HE0	102	5510	MCS0	17.50	17.29
		118	5590		17.50	17.22
		134	5670		17.50	17.28
		142	5710		17.50	17.16
	802.11ac80-VHT0	106	5530	MCS0	17.50	17.47
		122	5610		17.50	17.39
		138	5690		17.50	17.42
	802.11ax80-HE0	106	5530	MCS0	17.50	17.10
122		5610	17.50		17.27	
138		5690	17.50		17.29	
802.11ac160-VHT0	114	5570	MCS0	14.50	14.38	
802.11ax160-HE0	114	5570	MCS0	14.50	14.42	

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Aux (Chain A)						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.8GHz	802.11a	149	5745	6Mbps	17.50	17.11
		157	5785		17.50	17.06
		165	5825		17.50	17.09
	802.11n20-HT0	149	5745	MCS0	17.50	17.18
		157	5785		17.50	17.19
		165	5825		17.50	17.32
	802.11ac20-VHT0	149	5745	MCS0	17.50	17.29
		157	5785		17.50	17.29
		165	5825		17.50	17.13
	802.11ax20-HE0	149	5745	MCS0	17.50	17.20
		157	5785		17.50	17.27
		165	5825		17.50	17.13
	802.11n40-HT0	151	5755	MCS0	17.50	17.48
		159	5795		17.50	17.46
	802.11ac40-VHT0	151	5755	MCS0	17.50	17.24
		159	5795		17.50	17.33
802.11ax40-HE0	151	5755	MCS0	17.50	17.37	
	159	5795		17.50	17.29	
802.11ac80-VHT0	155	5775	MCS0	17.50	17.47	
802.11ax80-HE0	155	5775	MCS0	17.50	17.26	

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Tablet mode

Main (Chain B)						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2.45GHz	802.11b	1	2412	1Mbps	15.00	14.99
		6	2437		15.00	14.96
		11	2462		15.00	14.98
	802.11g	1	2412	6Mbps	15.00	14.82
		6	2437		15.00	14.78
		11	2462		15.00	14.71
	802.11n20-HT0	1	2412	MCS0	15.00	14.69
		6	2437		15.00	14.85
		11	2462		15.00	14.79
	802.11ac20-VHT0	1	2412	MCS0	15.00	14.81
		6	2437		15.00	14.90
		11	2462		15.00	14.68
	802.11ax20-HE0	1	2412	MCS0	15.00	14.76
		6	2437		15.00	14.83
		11	2462		15.00	14.75
	802.11n40-HT0	3	2422	MCS0	15.00	14.81
		6	2437		15.00	14.77
		9	2452		15.00	14.88
	802.11ac40-VHT0	3	2422	MCS0	15.00	14.80
		6	2437		15.00	14.69
		9	2452		15.00	14.75
	802.11ax40-HE0	3	2422	MCS0	15.00	14.62
		6	2437		15.00	14.88
		9	2452		15.00	14.93

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Main (Chain B)						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.15-5.25 GHz	802.11a	36	5180	6Mbps	12.50	12.24
		40	5200		12.50	12.17
		44	5220		12.50	12.24
		48	5240		12.50	12.28
	802.11n20-HT0	36	5180	MCS0	12.50	12.18
		40	5200		12.50	12.38
		44	5220		12.50	12.45
		48	5240		12.50	12.40
	802.11ac20-VHT0	36	5180	MCS0	12.50	12.26
		40	5200		12.50	12.13
		44	5220		12.50	12.35
		48	5240		12.50	12.29
	802.11ax20-HE0	36	5180	MCS0	12.50	12.23
		40	5200		12.50	12.24
		44	5220		12.50	12.22
		48	5240		12.50	12.16
	802.11n40-HT0	38	5190	MCS0	12.50	12.36
		46	5230		12.50	12.44
	802.11ac40-VHT0	38	5190	MCS0	12.50	12.37
		46	5230		12.50	12.36
802.11ax40-HE0	38	5190	MCS0	12.50	12.34	
	46	5230		12.50	12.39	
802.11ac80-VHT0	42	5210	MCS0	12.50	12.46	
802.11ax80-HE0	42	5210	MCS0	12.50	12.41	
802.11ac160-VHT0	50	5250	MCS0	12.50	12.49	
802.11ax160-HE0	50	5250	MCS0	12.50	12.37	

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Main (Chain B)						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.25-5.35 GHz	802.11a	52	5260	6Mbps	12.50	12.13
		56	5280		12.50	12.17
		60	5300		12.50	12.38
		64	5320		12.50	12.20
	802.11n20-HT0	52	5260	MCS0	12.50	12.42
		56	5280		12.50	12.37
		60	5300		12.50	12.34
		64	5320		12.50	12.23
	802.11ac20-VHT0	52	5260	MCS0	12.50	12.27
		56	5280		12.50	12.23
		60	5300		12.50	12.31
		64	5320		12.50	12.29
	802.11ax20-HE0	52	5260	MCS0	12.50	12.35
		56	5280		12.50	12.34
		60	5300		12.50	12.23
		64	5320		12.50	12.27
	802.11n40-HT0	54	5270	MCS0	12.50	12.49
		62	5310		12.50	12.47
	802.11ac40-VHT0	54	5270	MCS0	12.50	12.33
		62	5310		12.50	12.36
802.11ax40-HE0	54	5270	MCS0	12.50	12.26	
	62	5310		12.50	12.38	
802.11ac80-VHT0	58	5290	MCS0	12.50	12.45	
802.11ax80-HE0	58	5290	MCS0	12.50	12.32	

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Main (Chain B)						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.6GHz	802.11a	100	5500	6Mbps	11.50	11.30
		120	5600		11.50	11.31
		140	5700		11.50	11.35
		144	5720		11.50	11.29
	802.11n20-HT0	100	5500	MCS0	11.50	11.21
		120	5600		11.50	11.27
		140	5700		11.50	11.29
		144	5720		11.50	11.34
	802.11ac20-VHT0	100	5500	MCS0	11.50	11.20
		120	5600		11.50	11.17
		140	5700		11.50	11.22
		144	5720		11.50	11.30
	802.11ax20-HE0	100	5500	MCS0	11.50	11.22
		120	5600		11.50	11.24
		140	5700		11.50	11.45
		144	5720		11.50	11.22
	802.11n40-HT0	102	5510	MCS0	11.50	11.16
		118	5590		11.50	11.36
		134	5670		11.50	11.23
		142	5710		11.50	11.33
	802.11ac40-VHT0	102	5510	MCS0	11.50	11.19
		118	5590		11.50	11.40
		134	5670		11.50	11.33
		142	5710		11.50	11.26
	802.11ax40-HE0	102	5510	MCS0	11.50	11.23
		118	5590		11.50	11.28
		134	5670		11.50	11.26
		142	5710		11.50	11.32
	802.11ac80-VHT0	106	5530	MCS0	11.50	11.47
		122	5610		11.50	11.41
		138	5690		11.50	11.46
	802.11ax80-HE0	106	5530	MCS0	11.50	11.42
122		5610	11.50		11.36	
138		5690	11.50		11.30	
802.11ac160-VHT0	114	5570	MCS0	11.50	11.49	
802.11ax160-HE0	114	5570	MCS0	11.50	11.41	

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Main (Chain B)						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.8GHz	802.11a	149	5745	6Mbps	11.50	11.36
		157	5785		11.50	11.30
		165	5825		11.50	11.38
	802.11n20-HT0	149	5745	MCS0	11.50	11.29
		157	5785		11.50	11.17
		165	5825		11.50	11.19
	802.11ac20-VHT0	149	5745	MCS0	11.50	11.26
		157	5785		11.50	11.13
		165	5825		11.50	11.14
	802.11ax20-HE0	149	5745	MCS0	11.50	11.30
		157	5785		11.50	11.19
		165	5825		11.50	11.26
	802.11n40-HT0	151	5755	MCS0	11.50	11.48
		159	5795		11.50	11.44
	802.11ac40-VHT0	151	5755	MCS0	11.50	11.23
		159	5795		11.50	11.07
	802.11ax40-HE0	151	5755	MCS0	11.50	11.19
159		5795	11.50		11.19	
802.11ac80-VHT0	155	5775	MCS0	11.50	11.43	
802.11ax80-HE0	155	5775	MCS0	11.50	11.31	

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Aux (Chain A)						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2.45GHz	802.11b	1	2412	1Mbps	13.00	12.95
		6	2437		13.00	12.96
		11	2462		13.00	12.99
	802.11g	1	2412	6Mbps	13.00	12.72
		6	2437		13.00	12.79
		11	2462		13.00	12.68
	802.11n20-HT0	1	2412	MCS0	13.00	12.66
		6	2437		13.00	12.81
		11	2462		13.00	12.85
	802.11ac20-VHT0	1	2412	MCS0	13.00	12.90
		6	2437		13.00	12.78
		11	2462		13.00	12.73
	802.11ax20-HE0	1	2412	MCS0	13.00	12.84
		6	2437		13.00	12.88
		11	2462		13.00	12.61
	802.11n40-HT0	3	2422	MCS0	13.00	12.59
		6	2437		13.00	12.67
		9	2452		13.00	12.70
	802.11ac40-VHT0	3	2422	MCS0	13.00	12.75
		6	2437		13.00	12.64
		9	2452		13.00	12.91
	802.11ax40-HE0	3	2422	MCS0	13.00	12.87
		6	2437		13.00	12.80
		9	2452		13.00	12.74

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Aux (Chain A)						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.15-5.25 GHz	802.11a	36	5180	6Mbps	13.00	12.51
		40	5200		13.00	12.41
		44	5220		13.00	12.51
		48	5240		13.00	12.53
	802.11n20-HT0	36	5180	MCS0	13.00	12.16
		40	5200		13.00	12.73
		44	5220		13.00	12.73
		48	5240		13.00	12.63
	802.11ac20-VHT0	36	5180	MCS0	13.00	12.12
		40	5200		13.00	12.60
		44	5220		13.00	12.62
		48	5240		13.00	12.54
	802.11ax20-HE0	36	5180	MCS0	13.00	12.11
		40	5200		13.00	12.69
		44	5220		13.00	12.68
		48	5240		13.00	12.58
	802.11n40-HT0	38	5190	MCS0	13.00	12.82
		46	5230		13.00	12.82
	802.11ac40-VHT0	38	5190	MCS0	13.00	12.60
		46	5230		13.00	12.65
802.11ax40-HE0	38	5190	MCS0	13.00	12.02	
	46	5230		13.00	12.51	
802.11ac80-VHT0	42	5210	MCS0	13.00	12.99	
802.11ax80-HE0	42	5210	MCS0	13.00	12.82	
802.11ac160-VHT0	50	5250	MCS0	13.00	12.98	
802.11ax160-HE0	50	5250	MCS0	13.00	12.77	

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Aux (Chain A)						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.25-5.35 GHz	802.11a	52	5260	6Mbps	12.00	11.70
		56	5280		12.00	11.67
		60	5300		12.00	11.60
		64	5320		12.00	11.74
	802.11n20-HT0	52	5260	MCS0	12.00	11.60
		56	5280		12.00	11.92
		60	5300		12.00	11.87
		64	5320		12.00	11.83
	802.11ac20-VHT0	52	5260	MCS0	12.00	11.73
		56	5280		12.00	11.81
		60	5300		12.00	11.82
		64	5320		12.00	11.74
	802.11ax20-HE0	52	5260	MCS0	12.00	11.73
		56	5280		12.00	11.89
		60	5300		12.00	11.80
		64	5320		12.00	11.86
	802.11n40-HT0	54	5270	MCS0	12.00	11.96
		62	5310		12.00	11.94
	802.11ac40-VHT0	54	5270	MCS0	12.00	11.78
		62	5310		12.00	11.82
802.11ax40-HE0	54	5270	MCS0	12.00	11.65	
	62	5310		12.00	11.73	
802.11ac80-VHT0	58	5290	MCS0	12.00	11.99	
802.11ax80-HE0	58	5290	MCS0	12.00	11.91	

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Aux (Chain A)						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.6GHz	802.11a	100	5500	6Mbps	13.50	13.15
		120	5600		13.50	13.19
		140	5700		13.50	13.37
		144	5720		13.50	13.32
	802.11n20-HT0	100	5500	MCS0	13.50	13.28
		120	5600		13.50	13.27
		140	5700		13.50	13.18
		144	5720		13.50	13.34
	802.11ac20-VHT0	100	5500	MCS0	13.50	13.25
		120	5600		13.50	13.19
		140	5700		13.50	13.27
		144	5720		13.50	13.32
	802.11ax20-HE0	100	5500	MCS0	13.50	13.25
		120	5600		13.50	13.34
		140	5700		13.50	13.24
		144	5720		13.50	13.30
	802.11n40-HT0	102	5510	MCS0	13.50	13.22
		118	5590		13.50	13.11
		134	5670		13.50	13.31
		142	5710		13.50	13.33
	802.11ac40-VHT0	102	5510	MCS0	13.50	13.20
		118	5590		13.50	13.09
		134	5670		13.50	13.12
		142	5710		13.50	13.33
	802.11ax40-HE0	102	5510	MCS0	13.50	13.31
		118	5590		13.50	13.24
		134	5670		13.50	13.30
		142	5710		13.50	12.38
	802.11ac80-VHT0	106	5530	MCS0	13.50	13.44
		122	5610		13.50	13.38
		138	5690		13.50	13.49
	802.11ax80-HE0	106	5530	MCS0	13.50	13.41
122		5610	13.50		13.37	
138		5690	13.50		13.29	
802.11ac160-VHT0	114	5570	MCS0	13.50	13.45	
802.11ax160-HE0	114	5570	MCS0	13.50	13.36	

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Aux (Chain A)						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.8GHz	802.11a	149	5745	6Mbps	14.00	13.71
		157	5785		14.00	13.77
		165	5825		14.00	13.86
	802.11n20-HT0	149	5745	MCS0	14.00	13.76
		157	5785		14.00	13.74
		165	5825		14.00	13.91
	802.11ac20-VHT0	149	5745	MCS0	14.00	13.75
		157	5785		14.00	13.65
		165	5825		14.00	13.57
	802.11ax20-HE0	149	5745	MCS0	14.00	13.72
		157	5785		14.00	13.70
		165	5825		14.00	13.81
	802.11n40-HT0	151	5755	MCS0	14.00	13.99
		159	5795		14.00	13.97
	802.11ac40-VHT0	151	5755	MCS0	14.00	13.78
		159	5795		14.00	13.65
802.11ax40-HE0	151	5755	MCS0	14.00	13.70	
	159	5795		14.00	13.66	
802.11ac80-VHT0	155	5775	MCS0	14.00	13.96	
802.11ax80-HE0	155	5775	MCS0	14.00	13.85	

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Bluetooth conducted power table:

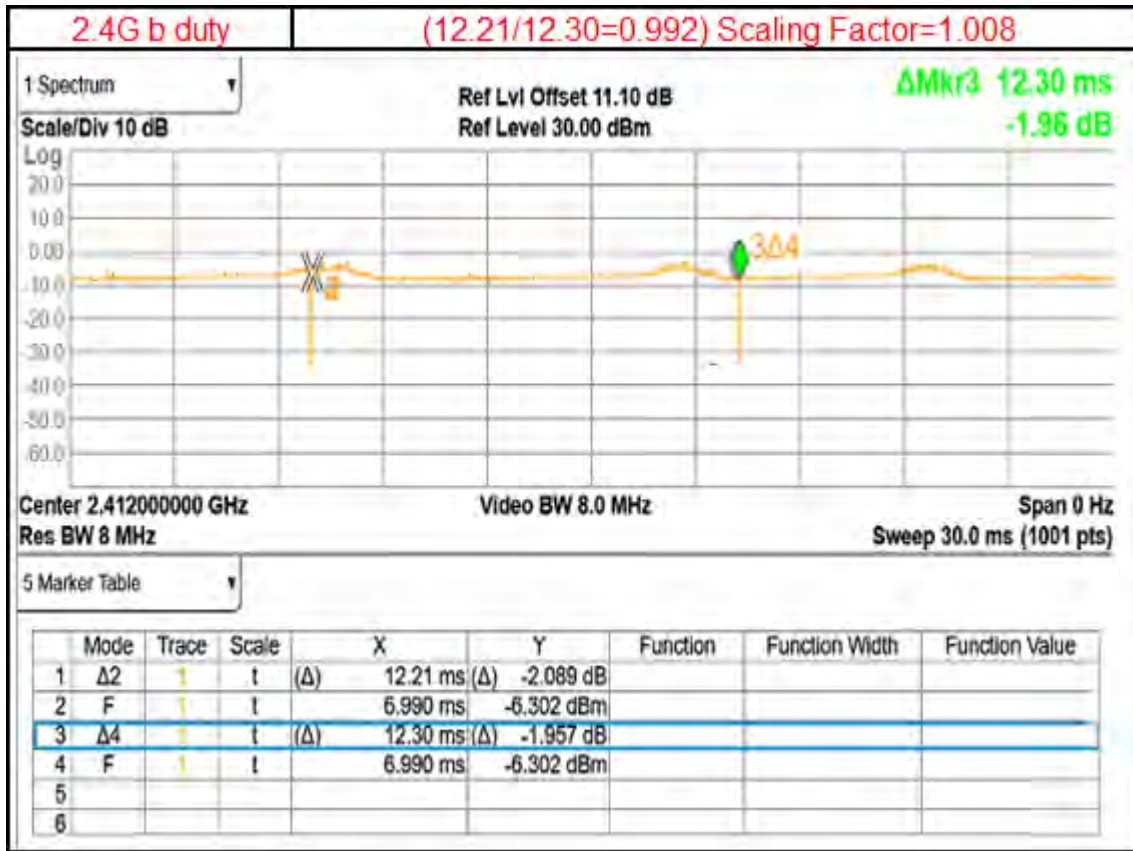
Mode	Channel	Frequency (MHz)	1Mbps		2Mbps		3Mbps	
			Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
BR/EDR	CH 00	2402	10.00	9.34	9.00	7.58	9.00	7.49
	CH 39	2441		9.40		7.82		7.78
	CH 78	2480		9.75		7.91		7.88

Mode	Channel	Frequency (MHz)	GFSK	
			Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Output Power (dBm)
BLE_1M	CH 00	2402	7	6.41
	CH 19	2440		6.69
	CH 39	2480		6.92

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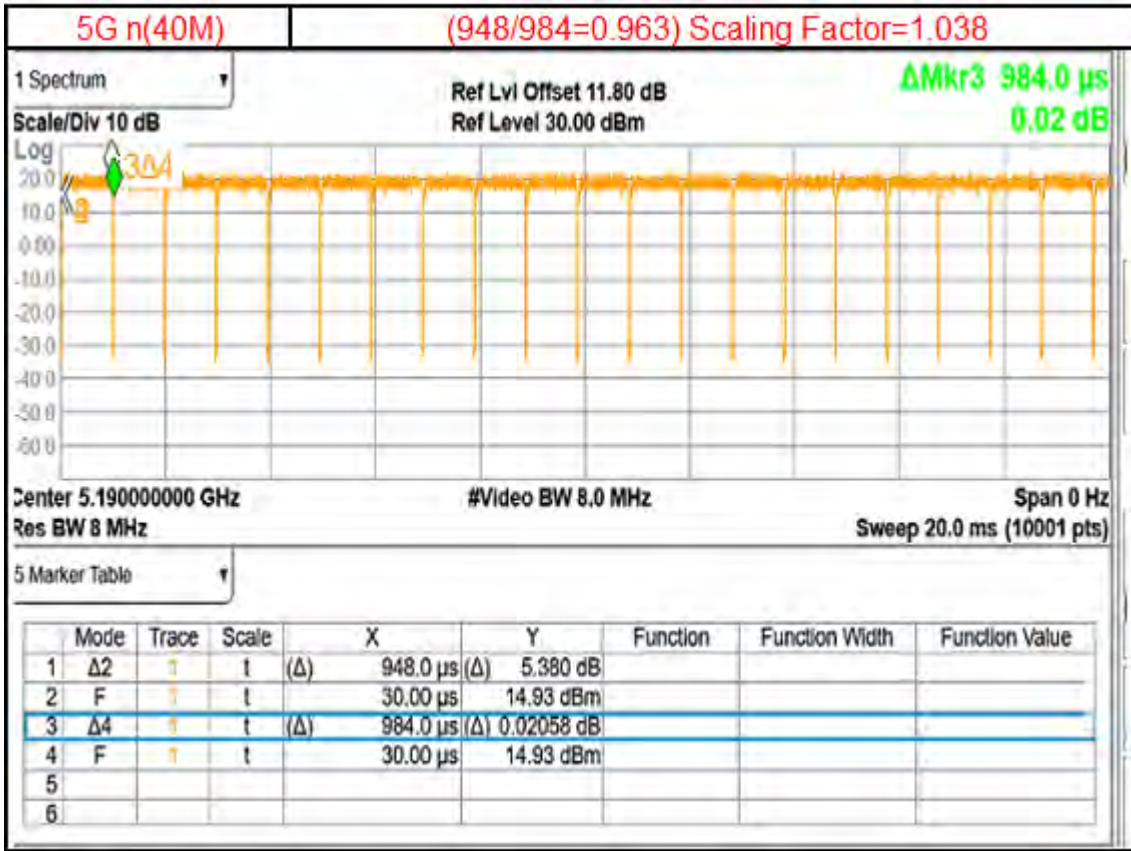
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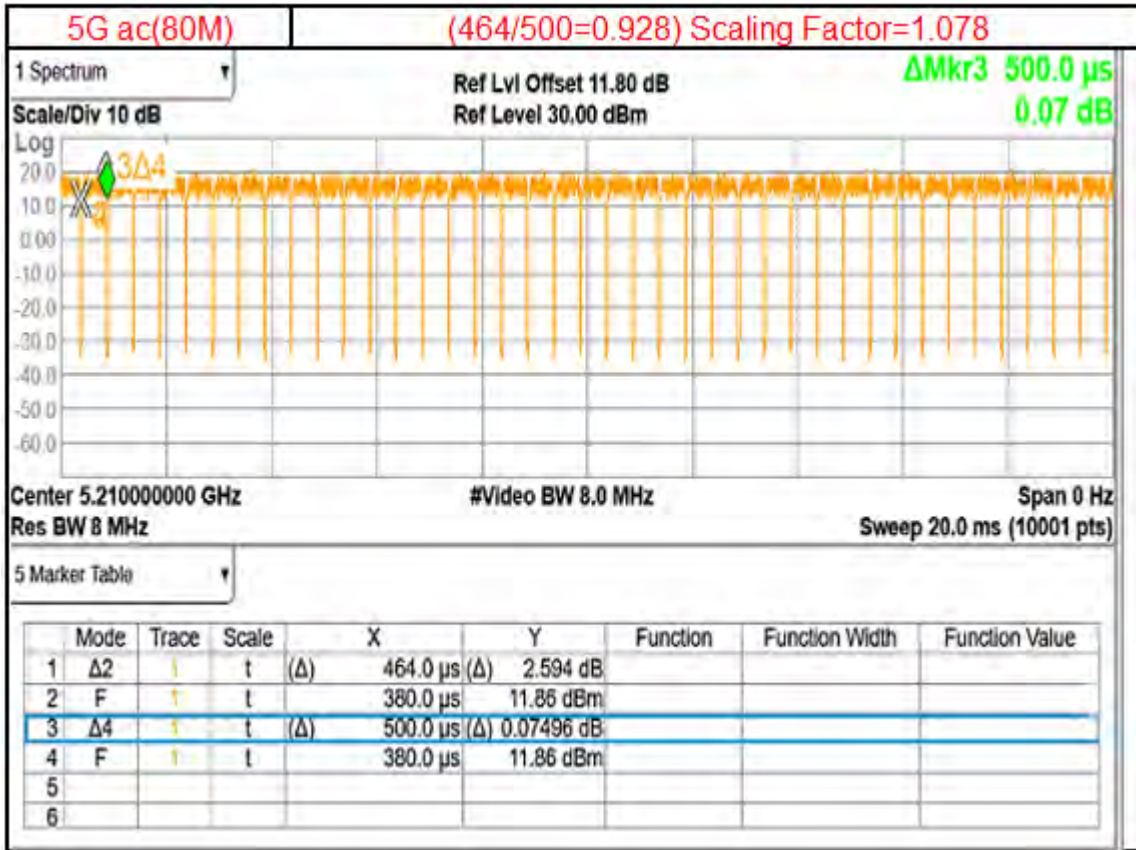
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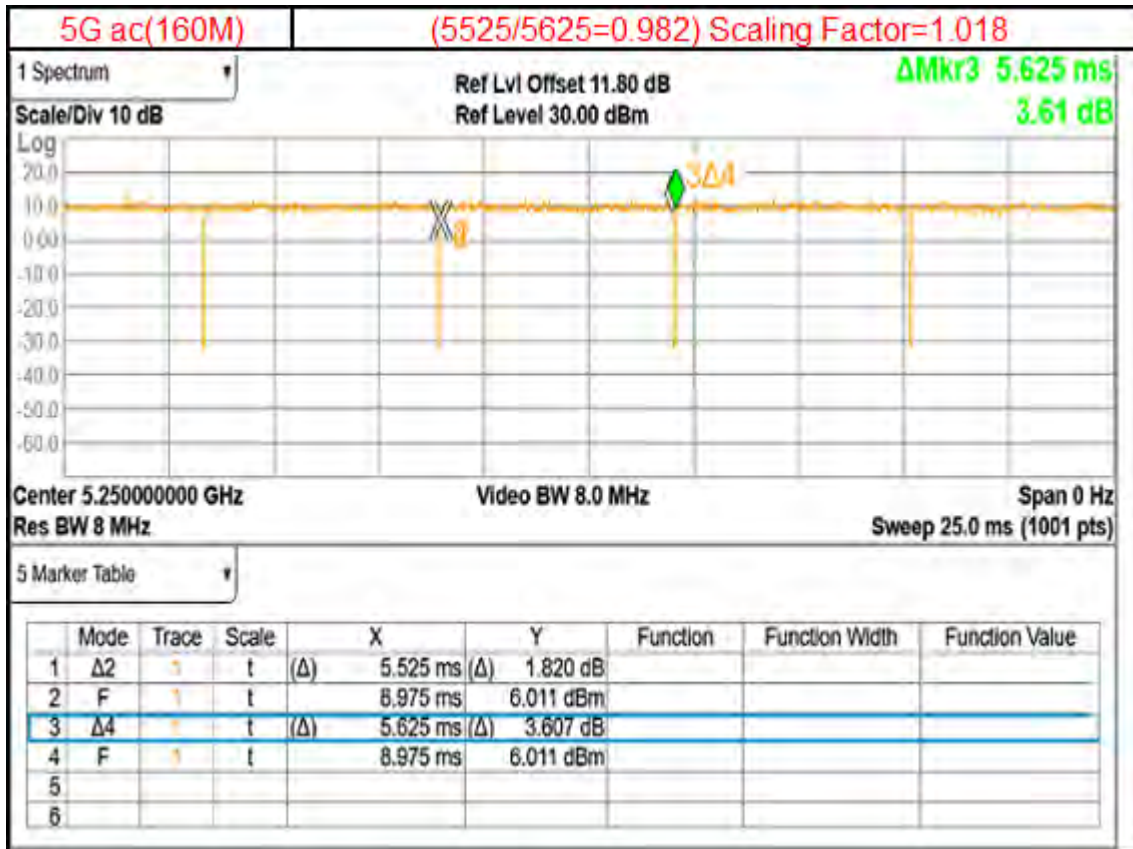
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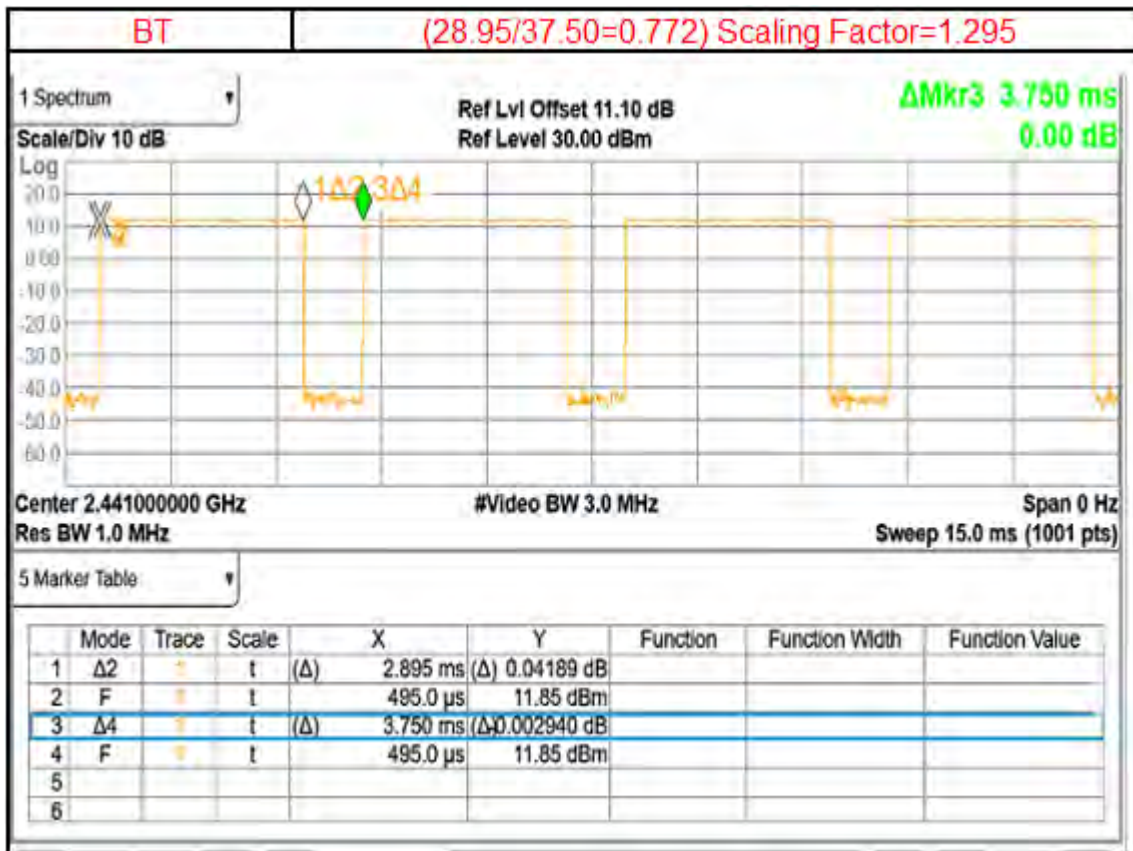
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1.4 Test Environment

Ambient Temperature: $22\pm 2^{\circ}\text{C}$

Tissue Simulating Liquid: $22\pm 2^{\circ}\text{C}$

1.5 Operation Description

Use chipset specific software to control the EUT, and makes it transmit in maximum power. Measurements are performed respectively on the lowest, middle and highest channels of the operating band(s). The EUT is set to maximum power level during all tests, and at the beginning of each test the battery is fully charged.

Laptop mode

SAR is measured with display screen open at 90 degree and bottom side of keyboard touch against the flat phantom.

Tablet mode

SAR is measured with back/edges touch against the flat phantom.

Note:

802.11b DSSS SAR Test Requirements:

1. SAR is measured for 2.4 GHz 802.11b DSSS mode using the highest measured maximum output power channel, when the reported SAR of the highest measured maximum output power channel for the exposure configuration is $\leq 0.8\text{ W/kg}$, no further SAR testing is required for 802.11b DSSS in that exposure configuration.
2. When the reported SAR is $> 0.8\text{ W/kg}$, SAR is required for that exposure configuration using the next highest measured output power channel. When any reported SAR is $> 1.2\text{ W/kg}$, SAR is required for the third channel; i.e., all channels require testing.

802.11g/n OFDM SAR Test Exclusion Requirements:

3. SAR is not required for 802.11g/n since the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is $\leq 1.2\text{ W/kg}$.

Initial Test Configuration:

4. An initial test configuration is determined for OFDM transmission modes

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according to the channel bandwidth, modulation and data rate combination(s) with the highest maximum output power specified for production units in each standalone and aggregated frequency band.

5. SAR is measured using the highest measured maximum output power channel. When the reported SAR of the initial test configuration is > 0.8 W/kg, SAR measurement is required for the subsequent next highest measured output power channel(s) in the initial test configuration until the reported SAR is ≤ 1.2 W/kg or all required channels are tested.
6. Since the highest reported SAR for the initial test configuration is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for subsequent test configuration.
7. According to KDB447498 D01, testing of other required channels is not required when the reported 1-g SAR for the highest output channel is ≤ 0.8 W/kg, when the transmission band is ≤ 100 MHz.
8. According to KDB865664 D01, SAR measurement variability must be assessed for each frequency band. When the original highest measured SAR is ≥ 0.8 W/kg, repeated that measurement once. Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/kg (~10% from the 1-g SAR limit)

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1.6 Operating modes validation by power measurement

The device is a convertible laptop computer with predefined single fixed power to each device modes.

For the operating modes validation, the measured conducted output power is monitored qualitatively to identify the triggering characteristics and recorded quantitatively.

DUT operating mode	Lid Angle description	WLAN TX state
Lid-close	$0^{\circ} \leq \text{Lid angle} < 30^{\circ}$	No TX transmission
Notebook	$30^{\circ} \leq \text{Lid angle} < 200^{\circ}$	Full Power Level
Tablet	$200^{\circ} \leq \text{Lid angle} \leq 360^{\circ}$	Reduced Power Level

1.6.1 Results and conclusion

The measured output power versus lid angle is tabulated in the following table based on the guidance from 2019-11 TCB workshop, and the triggering verification complies with the device mode / power level declared by the manufacturer.

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1.7 The SAR Measurement System

A block diagram of the SAR measurement System is given in Fig. a. This SAR Measurement System uses a Computer-controlled 3-D stepper motor system (SPEAG DASY 5 professional system). The model EX3DV4 field probe is used to determine the internal electric fields. The SAR can be obtained from the equation $SAR = \sigma (|E_{i}|^2) / \rho$ where σ and ρ are the conductivity and mass density of the tissue-simulant.

The DASY 5 system for performing compliance tests consists of the following items:

1. A standard high precision 6-axis robot (Staubli RX family) with controller, teach pendant and software. An arm extension is for accommodating the data acquisition electronics (DAE).
2. A dosimetric probe, i.e., an isotropic E-field probe optimized and calibrated for usage intissue simulating liquid. The probe is equipped with an optical surface detector system.
3. A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.

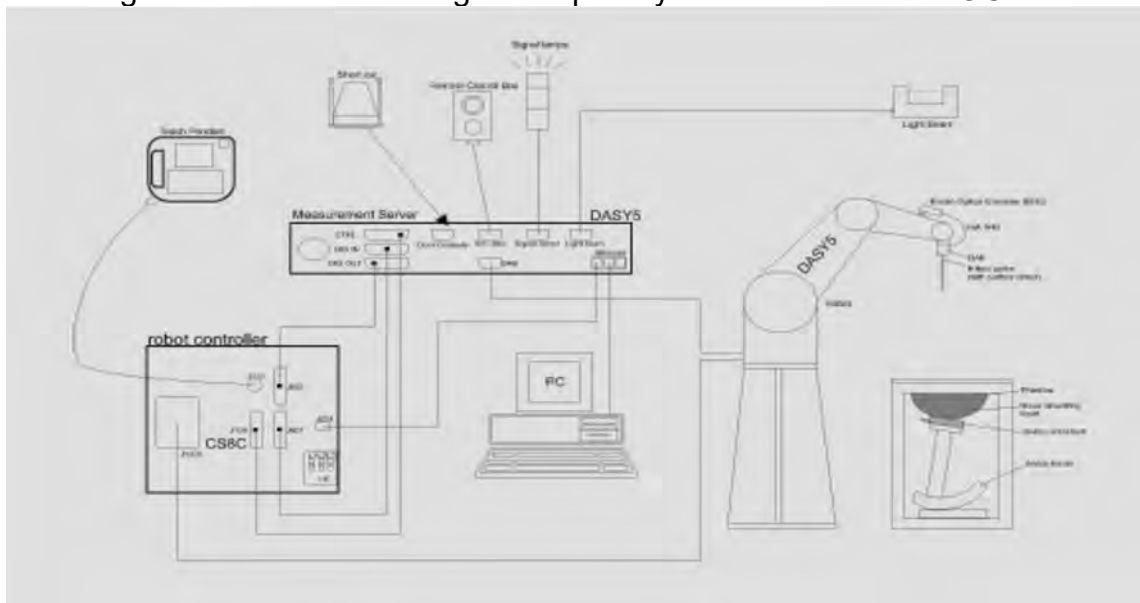


Fig. a The block diagram of SAR system

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4. The Electro-optical converter (EOC) performs the conversion between optical and electrical of the signals for the digital communication to the DAE and for the analog signal from the optical surface detection. The EOC is connected to the measurement server.
5. The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
6. A probe alignment unit which improves the (absolute) accuracy of the probe positioning.
7. A computer operating Windows 7.
8. DASY 5 software.
9. Remote control with teach pendant and additional circuitry for robot safety such as warning lamps, etc.
10. Tissue simulating liquid mixed according to the given recipes.
11. Validation dipole kits allowing to validate the proper functioning of the system.

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1.8 System Components

EX3DV4 E-Field Probe


Construction	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)	
Calibration	Basic Broad Band Calibration in air Conversion Factors (CF) for HSL 2450/5250/5600/5750 MHz Additional CF for other liquids and frequencies upon request	
Frequency	10 MHz to > 6 GHz	
Directivity	± 0.3 dB in HSL (rotation around probe axis) ± 0.5 dB in tissue material (rotation normal to probe axis)	
Dynamic Range	10 µW/g to > 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 µW/g)	
Dimensions	Tip diameter: 2.5 mm	
Application	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields). Only probe which enables compliance testing for frequencies up to 6 GHz with precision of better 30%.	

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PHANTOM

Model	ELI	
Construction	The ELI phantom is used for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30 MHz to 6 GHz. ELI is fully compatible with the IEC 62209-2 standard and all known tissue simulating liquids. ELI has been optimized regarding its performance and can be integrated into our standard phantom tables. A cover prevents evaporation of the liquid. Reference markings on the phantom allow installation of the complete setup, including all predefined phantom positions and measurement grids, by teaching three points. The phantom is compatible with all SPEAG dosimetric probes and dipoles.	
Shell Thickness	2 ± 0.2 mm	
Filling Volume	Approx. 30 liters	
Dimensions	Major axis: 600 mm Minor axis: 400 mm	

DEVICE HOLDER

Construction	The device holder (Supporter) for Notebook is made by POM (polyoxymethylene resin) , which is non-metal and non-conductive. The height can be adjusted to fit varies kind of notebooks.	 <p style="text-align: center;">Device Holder</p>
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1.9 SAR System Verification

The microwave circuit arrangement for system verification is sketched in Fig. b. The daily system accuracy verification occurs within the flat section of the SAM phantom. A SAR measurement was performed to see if the measured SAR was within +/- 10% from the target SAR values. These tests were done at 2450/5250/5600/5750 MHz. The tests were conducted on the same days as the measurement of the DUT. The obtained results from the system accuracy verification are displayed in the table 1 (SAR values are normalized to 1W forward power delivered to the dipole). During the tests, the liquid depth above the ear reference points was above 15 cm in all the cases. It is seen that the system is operating within its specification, as the results are within acceptable tolerance of the reference values.

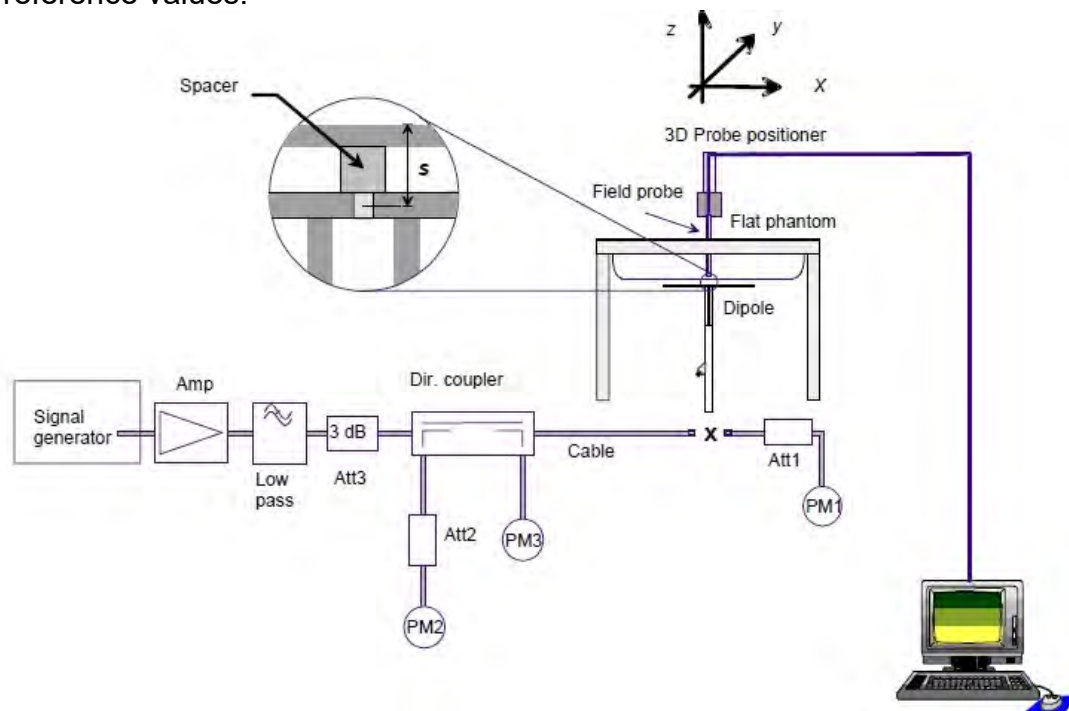


Fig. b The block diagram of system verification

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Validation Kit	S/N	Frequency (MHz)		1W Target SAR-1g (mW/g)	pin=250mW Measured SAR-1g (mW/g)	Measured SAR-1g normalized to 1W (mW/g)	Deviation (%)	Measured Date
D2450V2	727	2450	Head	53.9	13.33	53.32	-1.08%	Mar. 27, 2022
Validation Kit	S/N	Frequency (MHz)		1W Target SAR-1g (mW/g)	Pin=100mW Measured SAR-1g (mW/g)	Measured SAR-1g normalized to 1W (mW/g)	Deviation (%)	Measured Date
D5GHzV2	1023	5250	Head	81	7.73	77.3	-4.57%	Mar. 28, 2022
		5250	Head	81	7.86	78.6	-2.96%	Mar. 29, 2022
		5600	Head	84.4	8.02	80.2	-4.98%	Mar. 30, 2022
		5750	Head	81	8.54	85.4	5.43%	Mar. 31, 2022

Table 1. Results of system validation

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1.10 Tissue Simulant Fluid for the Frequency Band

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

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

The depth of the tissue simulant in the flat section of the phantom was $\geq 15 \text{ cm} \pm 5 \text{ mm}$ during all tests. (Fig. 2)

Tissue Type	Measurement Date	Measured Frequency (MHz)	Target Dielectric Constant, ϵ_r	Target Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ_r	Measured Conductivity, σ (S/m)	% dev ϵ_r	% dev σ	
Head	Mar. 27, 2022	2402	39.285	1.757	39.275	1.766	-0.03%	0.47%	
		2412	39.268	1.766	39.257	1.774	-0.03%	0.45%	
		2437	39.223	1.788	39.212	1.796	-0.03%	0.40%	
		2441	39.216	1.792	39.205	1.799	-0.03%	0.39%	
		2450	39.200	1.800	39.189	1.807	-0.03%	0.38%	
		2462	39.185	1.813	39.174	1.817	-0.03%	0.24%	
	Mar. 28, 2022	2480	39.162	1.827	39.151	1.833	-0.03%	0.37%	
		5190	36.010	4.645	35.986	4.639	-0.07%	-0.13%	
		5210	35.990	4.665	35.964	4.659	-0.07%	-0.13%	
		5230	35.970	4.686	35.941	4.680	-0.08%	-0.13%	
	Mar. 30, 2022	5250	35.950	4.706	35.918	4.700	-0.09%	-0.13%	
		5250	35.950	4.706	36.671	4.796	2.01%	1.91%	
		5270	35.930	4.727	36.648	4.817	2.00%	1.91%	
		5290	35.910	4.747	36.625	4.838	1.99%	1.91%	
	Mar. 31, 2022	5310	35.890	4.768	36.602	4.859	1.98%	1.91%	
		5530	35.605	4.997	35.598	4.988	-0.02%	-0.16%	
		5570	35.545	5.039	35.552	5.029	0.02%	-0.19%	
		5600	35.500	5.070	35.518	5.060	0.05%	-0.21%	
	Apr. 01, 2022	5610	35.490	5.080	35.506	5.070	0.05%	-0.20%	
		5690	35.410	5.160	35.415	5.151	0.01%	-0.17%	
		5750	35.350	5.220	35.346	5.213	-0.01%	-0.14%	
		5755	35.345	5.225	35.341	5.218	-0.01%	-0.14%	
			5775	35.325	5.245	35.318	5.238	-0.02%	-0.13%
			5795	35.305	5.265	35.295	5.259	-0.03%	-0.12%

Table 2. Dielectric Parameters of Tissue Simulant Fluid

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The composition of the brain tissue simulating liquid is:

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

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

Table 3. Recipes for tissue simulating liquid

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1.11 Evaluation Procedures

The entire evaluation of the spatial peak values is performed within the Post-processing engine (SEMCAD). The system always gives the maximum values for the 1 g and 10 g cubes. The algorithm to find the cube with highest averaged SAR is divided into the following stages:

1. The extraction of the measured data (grid and values) from the Zoom Scan.
2. The calculation of the SAR value at every measurement point based on all stored data (A/D values and measurement parameters)
3. The generation of a high-resolution mesh within the measured volume
4. The interpolation of all measured values from the measurement grid to the high-resolution grid
5. The extrapolation of the entire 3-D field distribution to the phantom surface over the distance from sensor to surface
6. The calculation of the averaged SAR within masses of 1g and 10g.

The probe is calibrated at the center of the dipole sensors that is located 1 to 2.7mm away from the probe tip. During measurements, the probe stops shortly above the phantom surface, depending on the probe and the surface detecting system. Both distances are included as parameters in the probe configuration file. The software always knows exactly how far away the measured point is from the surface. As the probe cannot directly measure at the surface, the values between the deepest measured point and the surface must be extrapolated. The angle between the probe axis and the surface normal line is less than 30 degree.

In the Area Scan, the gradient of the interpolation function is evaluated to find all the extreme of the SAR distribution. The uncertainty on the locations of the extreme is less than 1/20 of the grid size. Only local maximum within -2 dB of the global maximum are searched and passed for the Cube Scan measurement. In the Cube Scan, the interpolation function is used to extrapolate the Peak SAR from the lowest measurement points to the inner phantom surface (the extrapolation distance). The uncertainty increases with the extrapolation distance. To keep the uncertainty within 1% for the 1 g and 10 g cubes, the extrapolation distance should not be larger than 5mm.

The maximum search is automatically performed after each area scan measurement. It is based on splines in two or three dimensions. The procedure can find the maximum for most SAR distributions even with relatively large grid spacing. After the area scanning measurement, the probe is automatically moved to a position at the interpolated maximum. The following scan can directly use this position for reference, e.g., for a finer resolution grid or the cube evaluations. The 1g and 10g peak evaluations are only available for the predefined cube 7x7x7 scans. The routines are verified and optimized for the grid dimensions used in these cube measurements.

The measured volume of 30x30x30mm contains about 30g of tissue.

The first procedure is an extrapolation (incl. Boundary correction) to get the points between the lowest measured plane and the surface. The next step uses 3D

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interpolation to get all points within the measured volume. In the last step, a 1g cube is placed numerically into the volume and its averaged SAR is calculated. This cube is moved around until the highest averaged SAR is found. If the highest SAR is found at the edge of the measured volume, the system will issue a warning: higher SAR values might be found outside of the measured volume. In that case the cube measurement can be repeated, using the new interpolated maximum as the center.

1.12 Probe Calibration Procedures

For the calibration of E-field probes in lossy liquids, an electric field with an accurately known field strength must be produced within the measured liquid. For standardization purposes it would be desirable if all measurements which are necessary to assess the correct field strength would be traceable to standardized measurement procedures. In the following two different calibration techniques are summarized:

1.12.1 Transfer Calibration with Temperature Probes

In lossy liquids the specific absorption rate (SAR) is related both to the electric field (E) and the temperature gradient ($\delta T / \delta t$) in the liquid.

$$SAR = C \frac{\delta T}{\delta t},$$

whereby σ is the conductivity, ρ the density and c the heat capacity of the liquid.

Hence, the electric field in lossy liquid can be measured indirectly by measuring the temperature gradient in the liquid. Non-disturbing temperature probes (optical probes or thermistor probes with resistive lines) with high spatial resolution (<1-2 mm) and fast reaction time (<1 s) are available and can be easily calibrated with high precision [1]. The setup and the exciting source have no influence on the calibration; only the relative positioning uncertainties of the standard temperature probe and the E-field probe to be calibrated must be considered. However, several problems limit the available accuracy of probe calibrations with temperature probes:

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- The temperature gradient is not directly measurable but must be evaluated from temperature measurements at different time steps. Special precaution is necessary to avoid measurement errors caused by temperature gradients due to energy equalizing effects or convection currents in the liquid. Such effects cannot be completely avoided, as the measured field itself destroys the thermal equilibrium in the liquid. With a careful setup these errors can be kept small.
- The measured volume around the temperature probe is not well defined. It is difficult to calculate the energy transfer from a surrounding gradient temperature field into the probe. These effects must be considered, since temperature probes are calibrated in liquid with homogeneous temperatures. There is no traceable standard for temperature rise measurements.
- The calibration depends on the assessment of the specific density, the heat capacity and the conductivity of the medium. While the specific density and heat capacity can be measured accurately with standardized procedures ($\sim 2\%$ for c ; much better for ρ), there is no standard for the measurement of the conductivity. Depending on the method and liquid, the error can well exceed $\pm 5\%$.
- Temperature rise measurements are not very sensitive and therefore are often performed at a higher power level than the E-field measurements. The nonlinearities in the system (e.g., power measurements, different components, etc.) must be considered.

Considering these problems, the possible accuracy of the calibration of E-field probes with temperature gradient measurements in a carefully designed setup is about $\pm 10\%$ (RSS) [2]. Recently, a setup which is a combination of the waveguide techniques and the thermal measurements was presented in [3]. The estimated uncertainty of the setup is $\pm 5\%$ (RSS) when the same liquid is used for the calibration and for actual measurements and $\pm 7-9\%$ (RSS) when not, which is in good agreement with the estimates given in [2].

1.12.2 Calibration with Analytical Fields

In this method a technical setup is used in which the field can be calculated analytically from measurements of other physical magnitudes (e.g., input power). This corresponds to the standard field method for probe calibration in air; however, there is no standard defined for fields in lossy liquids.

When using calculated fields in lossy liquids for probe calibration, several points must be considered in the assessment of the uncertainty:

- The setup must enable accurate determination of the incident power.
- The accuracy of the calculated field strength will depend on the assessment of the dielectric parameters of the liquid.
- Due to the small wavelength in liquids with high permittivity, even small

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setups might be above the resonant cutoff frequencies. The field distribution in the setup must be carefully checked for conformity with the theoretical field distribution.

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3. K. Jokela, P. Hyysalo, and L. Puranen, "Calibration of specific absorption rate (SAR) probes in waveguide at 900 MHz", *IEEE Transactions on Instrumentation and Measurements*, vol. 47, no. 2, pp. 432-438, Apr. 1998.

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1.13 Test Standards and Limits

According to FCC 47CFR §2.1093(d) The limits to be used for evaluation are based generally on criteria published by the American National Standards Institute (ANSI) for localized specific absorption rate (“SAR”) in Section 4.2 of “IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz,” ANSI/IEEE C95.1, By the Institute of Electrical and Electronics Engineers, Inc., New York, New York 10017. These criteria for SAR evaluation are similar to those recommended by the National Council on Radiation Protection and Measurements (NCRP) in “Biological Effects and Exposure Criteria for Radio frequency Electromagnetic Fields,” NCRP Report No. 86, Section 17.4.5. Copyright NCRP, 1986, Bethesda, Maryland 20814. SAR is a measure of the rate of energy absorption due to exposure to an RF transmitting source. SAR values have been related to threshold levels for potential biological hazards. The criteria to be used are specified in paragraphs (d)(1) and (d)(2) of this section and shall apply for portable devices transmitting in the frequency range from 100 kHz to 6 GHz. Portable devices that transmit at frequencies above 6 GHz are to be evaluated in terms of the MPE limits specified in § 1.1310 of this chapter. Measurements and calculations to demonstrate compliance with MPE field strength or power density limits for devices operating above 6 GHz should be made at a minimum distance of 5 cm from the radiating source.

- (1) Limits for Occupational/Controlled exposure: 0.4 W/kg as averaged over the whole-body and spatial peak SAR not exceeding 8 W/kg as averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the hands, wrists, feet and ankles where the spatial peak SAR shall not exceed 20 W/kg, as averaged over an 10 grams of tissue (defined as a tissue volume in the shape of a cube).
- (2) Occupational/Controlled limits apply when persons are exposed as a consequence of their employment provided these persons are fully aware of and exercise control over their exposure. Awareness of exposure can be accomplished by use of warning labels or by specific training or education through appropriate means, such as an RF safety program in a work environment.
- (3) Limits for General Population/Uncontrolled exposure: 0.08 W/kg as averaged over the whole-body and spatial peak SAR not exceeding 1.6 W/kg as averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the hands, wrists, feet and ankles where the spatial peak SAR shall not exceed 4 W/kg, as averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube). General Population/Uncontrolled limits apply when the general public may be exposed, or when persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or do not

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exercise control over their exposure. Warning labels placed on consumer devices such as cellular telephones will not be sufficient reason to allow these devices to be evaluated subject to limits for occupational/controlled exposure in paragraph (d)(1) of this section. (Table 4.)

Human Exposure	Uncontrolled Environment General Population	Controlled Environment Occupational
Spatial Peak SAR (Brain)	1.60 W/kg	8.00 W/kg
Spatial Average SAR (Whole Body)	0.08 W/kg	0.40 W/kg
Spatial Peak SAR (Hands/Feet/Ankle/Wrist)	4.00 W/kg	20.00 W/kg

Table 4. RF exposure limits

Notes:

1. Uncontrolled environments are defined as locations where there is potential exposure of individuals who have no knowledge or control of their potential exposure.
2. Controlled environments are defined as locations where there is potential exposure of individuals who have knowledge of their potential exposure and can exercise control over their exposure.

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2. Summary of Results

2.1 Decision rules

Reported measurement data comply with IEEE 1528-2013:

Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2.2 Summary of Results

Notebook mode

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Plot page
									Measured	Reported	
WLAN 802.11b	Bottom Surface	0	1	2412	19.50	19.41	1.008	102.09%	0.911	0.938	-
	Bottom Surface	0	6	2437	20.00	19.92	1.008	101.86%	0.923	0.948	-
	Bottom Surface	0	11	2462	20.00	19.99	1.008	100.23%	0.936	0.946	67
WLAN 802.11n(40M) 5.2G	Bottom Surface	0	38	5190	18.00	17.92	1.038	101.86%	1.010	1.068	68
	Bottom Surface	0	46	5230	18.00	17.98	1.038	100.46%	0.962	1.003	-
	Bottom Surface	0	42	5210	18.00	17.99	1.078	100.23%	1.030	1.113	69
WLAN 802.11ac(80M) 5.2G	Bottom Surface*	0	42	5210	18.00	17.99	1.078	100.23%	0.997	1.077	-
	Bottom Surface	0	42	5210	18.00	17.99	1.078	100.23%	0.997	1.077	-
	Bottom Surface	0	42	5210	18.00	17.99	1.078	100.23%	0.997	1.077	-
WLAN 802.11n(40M) 5.3G	Bottom Surface	0	54	5270	17.50	17.46	1.038	100.93%	0.827	0.866	70
	Bottom Surface	0	62	5310	16.50	16.49	1.038	100.23%	0.679	0.706	-
	Bottom Surface	0	58	5290	17.50	17.49	1.078	100.23%	0.844	0.912	71
WLAN 802.11ac(80M) 5.3G	Bottom Surface*	0	58	5290	17.50	17.49	1.078	100.23%	0.823	0.889	-
	Bottom Surface	0	58	5290	17.50	17.49	1.078	100.23%	0.823	0.889	-
	Bottom Surface	0	58	5290	17.50	17.49	1.078	100.23%	0.823	0.889	-
WLAN 802.11ac(80M) 5.6G	Bottom Surface	0	106	5530	16.50	16.46	1.078	100.93%	0.894	0.973	72
	Bottom Surface	0	138	5690	16.50	16.45	1.078	101.16%	0.861	0.939	-
	Bottom Surface	0	138	5690	16.50	16.45	1.078	101.16%	0.861	0.939	-
WLAN 802.11n(40M) 5.8G	Bottom Surface	0	151	5755	17.50	17.42	1.038	101.86%	0.925	0.978	73
	Bottom Surface	0	159	5795	17.50	17.47	1.038	100.69%	0.852	0.891	-
	Bottom Surface	0	155	5775	17.50	17.44	1.078	101.39%	0.905	0.989	74
WLAN 802.11ac(80M) 5.8G	Bottom Surface*	0	155	5775	17.50	17.44	1.078	101.39%	0.905	0.989	-
	Bottom Surface	0	155	5775	17.50	17.44	1.078	101.39%	0.905	0.989	-
	Bottom Surface	0	155	5775	17.50	17.44	1.078	101.39%	0.905	0.989	-

* - repeated at the highest SAR measurement according to the KDB 865664 D01

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Ant Aux

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Plot page
									Measured	Reported	
WLAN 802.11b	Bottom Surface	0	1	2412	17.50	17.49	1.008	100.23%	1.050	1.061	-
	Bottom Surface	0	6	2437	17.50	17.48	1.008	100.46%	1.090	1.104	75
	Bottom Surface*	0	6	2437	17.50	17.48	1.008	100.46%	1.020	1.033	-
	Bottom Surface	0	11	2462	17.50	17.47	1.008	100.69%	1.060	1.076	-
Bluetooth (GFSK)	Bottom Surface	0	0	2402	10.00	9.34	1.295	116.41%	0.124	0.187	76
	Bottom Surface	0	39	2441	10.00	9.40	1.295	114.82%	0.115	0.171	-
	Bottom Surface	0	78	2480	10.00	9.75	1.295	105.93%	0.108	0.148	-
	Bottom Surface	0	0	0	0	0	0	0	0	0	0
WLAN 802.11n(40M)5.2G	Bottom Surface	0	38	5190	18.50	18.48	1.038	100.46%	0.852	0.888	-
	Bottom Surface	0	46	5230	18.50	18.43	1.038	101.62%	0.918	0.968	77
	Bottom Surface	0	42	5210	18.50	18.49	1.078	100.23%	0.918	0.992	78
WLAN 802.11ac(80M) 5.3G	Bottom Surface	0	58	5290	17.00	16.99	1.078	100.23%	0.713	0.770	79
	Bottom Surface	0	0	0	0	0	0	0	0	0	0
WLAN 802.11ac(80M) 5.6G	Bottom Surface	0	106	5530	17.50	17.47	1.078	100.69%	0.994	1.079	-
	Bottom Surface	0	138	5690	17.50	17.42	1.078	101.86%	1.000	1.098	80
	Bottom Surface*	0	138	5690	17.50	17.42	1.078	101.86%	0.956	1.050	-
WLAN 802.11n(40M) 5.8G	Bottom Surface	0	151	5755	17.50	17.48	1.038	100.46%	1.020	1.064	81
	Bottom Surface*	0	151	5755	17.50	17.48	1.038	100.46%	0.983	1.025	-
	Bottom Surface	0	159	5795	17.50	17.46	1.038	100.93%	0.727	0.762	-
	Bottom Surface	0	155	5775	17.50	17.47	1.078	100.69%	0.982	1.066	82

* - repeated at the highest SAR measurement according to the KDB 865664 D01

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Tablet mode

Ant. Main

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Plot page
									Measured	Reported	
WLAN 802.11b	Back Surface	0	1	2412	15.00	14.99	1.008	100.23%	0.963	0.963	-
	Back Surface	0	6	2437	15.00	14.96	1.008	100.93%	0.966	0.983	83
	Top Edge	0	1	2412	15.00	14.99	1.008	100.23%	0.369	0.373	-
	Bottom Edge	0	1	2412	15.00	14.99	1.008	100.23%	0.001	0.001	-
	Left Edge	0	1	2412	15.00	14.99	1.008	100.23%	0.001	0.001	-
	Right Edge	0	1	2412	15.00	14.99	1.008	100.23%	0.001	0.001	-

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Plot page
									Measured	Reported	
WLAN 802.11ac (80M) 5.2G	Back Surface	0	42	5210	12.50	12.46	1.078	100.93%	0.827	0.900	84
	Top Edge	0	42	5210	12.50	12.46	1.078	100.93%	0.328	0.357	-
	Bottom Edge	0	42	5210	12.50	12.46	1.078	100.93%	0.001	0.001	-
	Left Edge	0	42	5210	12.50	12.46	1.078	100.93%	0.041	0.045	-
	Right Edge	0	42	5210	12.50	12.46	1.078	100.93%	0.027	0.029	-
	Back Surface	0	50	5250	12.50	12.49	1.018	100.23%	0.850	0.867	85
WLAN 802.11ac (160M) 5.2G	Top Edge	0	50	5250	12.50	12.49	1.018	100.23%	0.356	0.363	-
	Bottom Edge	0	50	5250	12.50	12.49	1.018	100.23%	0.001	0.001	-
	Left Edge	0	50	5250	12.50	12.49	1.018	100.23%	0.050	0.051	-
	Right Edge	0	50	5250	12.50	12.49	1.018	100.23%	0.039	0.040	-

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Plot page
									Measured	Reported	
WLAN 802.11n (40M) 5.3G	Back Surface	0	54	5270	12.50	12.49	1.038	100.23%	0.917	0.954	86
	Back Surface*	0	54	5270	12.50	12.49	1.038	100.23%	0.902	0.938	-
	Back Surface	0	62	5310	12.50	12.47	1.038	100.69%	0.871	0.910	-
	Top Edge	0	54	5270	12.50	12.49	1.038	100.23%	0.357	0.371	-
	Bottom Edge	0	54	5270	12.50	12.49	1.038	100.23%	0.001	0.001	-
	Left Edge	0	54	5270	12.50	12.49	1.038	100.23%	0.047	0.049	-
WLAN 802.11ac (80M) 5.3G	Right Edge	0	54	5270	12.50	12.49	1.038	100.23%	0.032	0.033	-
	Back Surface	0	58	5290	12.50	12.45	1.078	101.16%	0.844	0.920	87
	Top Edge	0	58	5290	12.50	12.45	1.078	101.16%	0.334	0.364	-
	Bottom Edge	0	58	5290	12.50	12.45	1.078	101.16%	0.001	0.001	-
	Left Edge	0	58	5290	12.50	12.45	1.078	101.16%	0.043	0.047	-
	Right Edge	0	58	5290	12.50	12.45	1.078	101.16%	0.030	0.033	-

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Plot page
									Measured	Reported	
WLAN 802.11ac (80M) 5.6G	Back Surface	0	106	5530	11.50	11.47	1.078	100.69%	0.932	1.012	-
	Back Surface	0	138	5690	11.50	11.46	1.078	100.93%	1.020	1.110	88
	Top Edge	0	138	5690	11.50	11.46	1.078	100.93%	0.342	0.372	-
	Bottom Edge	0	138	5690	11.50	11.46	1.078	100.93%	0.001	0.001	-
	Left Edge	0	138	5690	11.50	11.46	1.078	100.93%	0.050	0.054	-
	Right Edge	0	138	5690	11.50	11.46	1.078	100.93%	0.036	0.039	-
WLAN 802.11ac (160M) 5.6G	Back Surface	0	114	5570	11.50	11.49	1.018	100.23%	1.030	1.051	89
	Top Edge	0	114	5570	11.50	11.49	1.018	100.23%	0.288	0.294	-
	Bottom Edge	0	114	5570	11.50	11.49	1.018	100.23%	0.001	0.001	-
	Left Edge	0	114	5570	11.50	11.49	1.018	100.23%	0.051	0.052	-
	Right Edge	0	114	5570	11.50	11.49	1.018	100.23%	0.043	0.044	-

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Plot page
									Measured	Reported	
WLAN 802.11n (40M) 5.8G	Back Surface	0	151	5755	11.50	11.48	1.038	100.46%	1.020	1.064	90
	Back Surface	0	159	5795	11.50	11.44	1.038	101.39%	1.010	1.063	-
	Top Edge	0	151	5755	11.50	11.48	1.038	100.46%	0.308	0.321	-
	Bottom Edge	0	151	5755	11.50	11.48	1.038	100.46%	0.001	0.001	-
	Left Edge	0	151	5755	11.50	11.48	1.038	100.46%	0.054	0.056	-
	Right Edge	0	151	5755	11.50	11.48	1.038	100.46%	0.001	0.001	-
WLAN 802.11ac (80M) 5.8G	Back Surface	0	155	5775	11.50	11.43	1.078	101.62%	1.010	1.106	91
	Top Edge	0	155	5775	11.50	11.43	1.078	101.62%	0.311	0.341	-
	Bottom Edge	0	155	5775	11.50	11.43	1.078	101.62%	0.001	0.001	-
	Left Edge	0	155	5775	11.50	11.43	1.078	101.62%	0.065	0.071	-
	Right Edge	0	155	5775	11.50	11.43	1.078	101.62%	0.037	0.041	-

* - repeated at the highest SAR measurement according to the KDB 865664 D01

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Ant Aux

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Plot page
									Measured	Reported	
WLAN 802.11b	Back Surface	0	1	2412	13.00	12.95	1.008	101.16%	0.940	0.958	-
	Back Surface	0	6	2437	13.00	12.96	1.008	100.93%	0.982	0.999	92
	Back Surface*	0	6	2437	13.00	12.96	1.008	100.93%	0.945	0.961	-
	Back Surface	0	11	2462	13.00	12.99	1.008	100.23%	0.951	0.961	-
	Top Edge	0	1	2412	13.00	12.95	1.008	101.16%	0.266	0.271	-
	Bottom Edge	0	11	2462	13.00	12.99	1.008	100.23%	0.001	0.001	-
	Left Edge	0	11	2462	13.00	12.99	1.008	100.23%	0.001	0.001	-
	Right Edge	0	11	2462	13.00	12.99	1.008	100.23%	0.001	0.001	-

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		PKot page
									Measured	Reported	
Bluetooth (GFSK)	Back Surface	0	0	2402	10.00	9.34	1.295	116.41%	0.268	0.404	-
	Back Surface	0	39	2441	10.00	9.40	1.295	114.82%	0.277	0.412	-
	Back Surface	0	78	2480	10.00	9.75	1.295	105.93%	0.301	0.413	93
	Top Edge	0	78	2480	10.00	9.75	1.295	105.93%	0.091	0.125	-
	Bottom Edge	0	78	2480	10.00	9.75	1.295	105.93%	0.001	0.001	-
	Left Edge	0	78	2480	10.00	9.75	1.295	105.93%	0.001	0.001	-
	Right Edge	0	78	2480	10.00	9.75	1.295	105.93%	0.001	0.001	-

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Plot page
									Measured	Reported	
WLAN 802.11ac (80M) 5.2G	Back Surface	0	42	5210	13.00	12.99	1.078	100.23%	1.040	1.124	94
	Top Edge	0	42	5210	13.00	12.99	1.078	100.23%	0.622	0.672	-
	Bottom Edge	0	42	5210	13.00	12.99	1.078	100.23%	0.001	0.001	-
	Left Edge	0	42	5210	13.00	12.99	1.078	100.23%	0.001	0.001	-
	Right Edge	0	42	5210	13.00	12.99	1.078	100.23%	0.001	0.001	-
WLAN 802.11ac (160M) 5.2G	Back Surface	0	50	5250	13.00	12.98	1.018	100.46%	1.090	1.115	95
	Back Surface*	0	50	5250	13.00	12.98	1.018	100.46%	1.040	1.064	-
	Top Edge	0	50	5250	13.00	12.98	1.018	100.46%	0.478	0.489	-
	Bottom Edge	0	50	5250	13.00	12.98	1.018	100.46%	0.001	0.001	-
	Left Edge	0	50	5250	13.00	12.98	1.018	100.46%	0.001	0.001	-

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Plot page
									Measured	Reported	
WLAN 802.11n (40M) 5.3G	Back Surface	0	54	5270	12.00	11.96	1.038	100.93%	0.805	0.843	96
	Back Surface	0	62	5310	12.00	11.94	1.038	101.39%	0.725	0.763	-
	Top Edge	0	54	5270	12.00	11.96	1.038	100.93%	0.429	0.449	-
	Bottom Edge	0	54	5270	12.00	11.96	1.038	100.93%	0.001	0.001	-
	Left Edge	0	54	5270	12.00	11.96	1.038	100.93%	0.001	0.001	-
WLAN 802.11ac (80M) 5.3G	Right Edge	0	54	5270	12.00	11.96	1.038	100.93%	0.001	0.001	-
	Back Surface	0	58	5290	12.00	11.99	1.078	100.23%	0.773	0.835	97
	Top Edge	0	58	5290	12.00	11.99	1.078	100.23%	0.560	0.605	-
	Bottom Edge	0	58	5290	12.00	11.99	1.078	100.23%	0.001	0.001	-
	Left Edge	0	58	5290	12.00	11.99	1.078	100.23%	0.001	0.001	-

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Plot page
									Measured	Reported	
WLAN 802.11ac (80M) 5.6G	Back Surface	0	106	5530	13.50	13.44	1.078	101.39%	1.080	1.180	98
	Back Surface*	0	106	5530	13.50	13.44	1.078	101.39%	0.991	1.083	-
	Back Surface	0	122	5610	13.50	13.38	1.078	102.80%	0.956	1.059	-
	Back Surface	0	138	5690	13.50	13.49	1.078	100.23%	1.000	1.080	-
	Top Edge	0	138	5690	13.50	13.49	1.078	100.23%	0.712	0.769	-
	Bottom Edge	0	138	5690	13.50	13.49	1.078	100.23%	0.001	0.001	-
	Left Edge	0	138	5690	13.50	13.49	1.078	100.23%	0.001	0.001	-
	Right Edge	0	138	5690	13.50	13.49	1.078	100.23%	0.065	0.070	-
WLAN 802.11ac (160M) 5.6G	Back Surface	0	114	5570	13.50	13.45	1.018	101.16%	1.110	1.143	99
	Back Surface*	0	114	5570	13.50	13.45	1.018	101.16%	1.020	1.050	-
	Top Edge	0	114	5570	13.50	13.45	1.018	101.16%	0.776	0.799	-
	Bottom Edge	0	114	5570	13.50	13.45	1.018	101.16%	0.001	0.001	-
	Left Edge	0	114	5570	13.50	13.45	1.018	101.16%	0.001	0.001	-

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Plot page
									Measured	Reported	
WLAN 802.11n (40M) 5.8G	Back Surface	0	151	5755	14.00	13.99	1.038	100.23%	1.120	1.165	100
	Back Surface*	0	151	5755	14.00	13.99	1.038	100.23%	1.050	1.092	-
	Back Surface	0	159	5795	14.00	13.97	1.038	100.69%	0.995	1.040	-
	Top Edge	0	151	5755	14.00	13.99	1.038	100.23%	0.916	0.953	-
	Top Edge	0	159	5795	14.00	13.97	1.038	100.69%	0.838	0.876	-
	Bottom Edge	0	151	5755	14.00	13.99	1.038	100.23%	0.001	0.001	-
	Left Edge	0	151	5755	14.00	13.99	1.038	100.23%	0.001	0.001	-
	Right Edge	0	151	5755	14.00	13.99	1.038	100.23%	0.060	0.062	-
WLAN 802.11ac (80M) 5.8G	Bottom Surface	0	155	5775	17.50	17.47	1.078	100.69%	0.982	1.066	-
	Back Surface	0	155	5775	14.00	13.96	1.078	100.93%	1.080	1.175	101
	Top Edge	0	155	5775	14.00	13.96	1.078	100.93%	0.964	1.049	-
	Bottom Edge	0	155	5775	14.00	13.96	1.078	100.93%	0.001	0.001	-
	Left Edge	0	155	5775	14.00	13.96	1.078	100.93%	0.001	0.001	-

* - repeated at the highest SAR measurement according to the KDB 865664 D01

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Note:

$$\text{Scaling} = \frac{\text{reported SAR}}{\text{measured SAR}} = \frac{P2(\text{mW})}{P1(\text{mW})} = 10^{\left(\frac{P2-P1}{10}\right)}(\text{dBm})$$

Reported SAR = measured SAR * (scaling)

Where P2 is maximum specified power, P1 is measured conducted power

2.3 Reporting statements of conformity

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

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3. Simultaneous Transmission Analysis

Simultaneous Transmission Scenarios:

Simultaneous Transmit Configurations	Body
WLAN 2.4GHz Main + BT Aux	Yes
WLAN 2.4GHz Main + WLAN 2.4GHz Aux	Yes
WLAN 5GHz Main + BT Aux	Yes
WLAN 5GHz Main + WLAN 5GHz Aux	Yes
WLAN 5GHz Main + WLAN 5GHz Aux + BT Aux	Yes

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3.1 Estimated SAR calculation

According to KDB447498 D01v06 – When standalone SAR test exclusion applies to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to following to determine simultaneous transmission SAR test exclusion:

$$\text{Estimated SAR} = \frac{\text{Max. tune up power (mW)}}{\text{Min. test separation distance(mm)}} \times \frac{\sqrt{f(\text{GHz})}}{7.5}$$

If the minimum test separation distance is < 5mm, a distance of 5mm is used for estimated SAR calculation. When the test separation distance is >50mm, the 0.4W/kg is used for SAR-1g.

3.2 SPLSR evaluation and analysis

Per KDB447498D01, when the sum of SAR is larger than the limit, SAR test exclusion is determined by the SAR sum to peak location separation ratio(SPLSR).

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 $(\text{SAR1} + \text{SAR2})^{1.5}/R_i$, 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.

SAR1 and SAR2 are the highest reported or estimated SAR for each antenna in the pair, and R_i is the separation distance between the peak SAR locations for the antenna pair in mm.

When standalone test exclusion applies, SAR is estimated; the peak location is assumed to be at the feed-point or geometric center of the antenna.

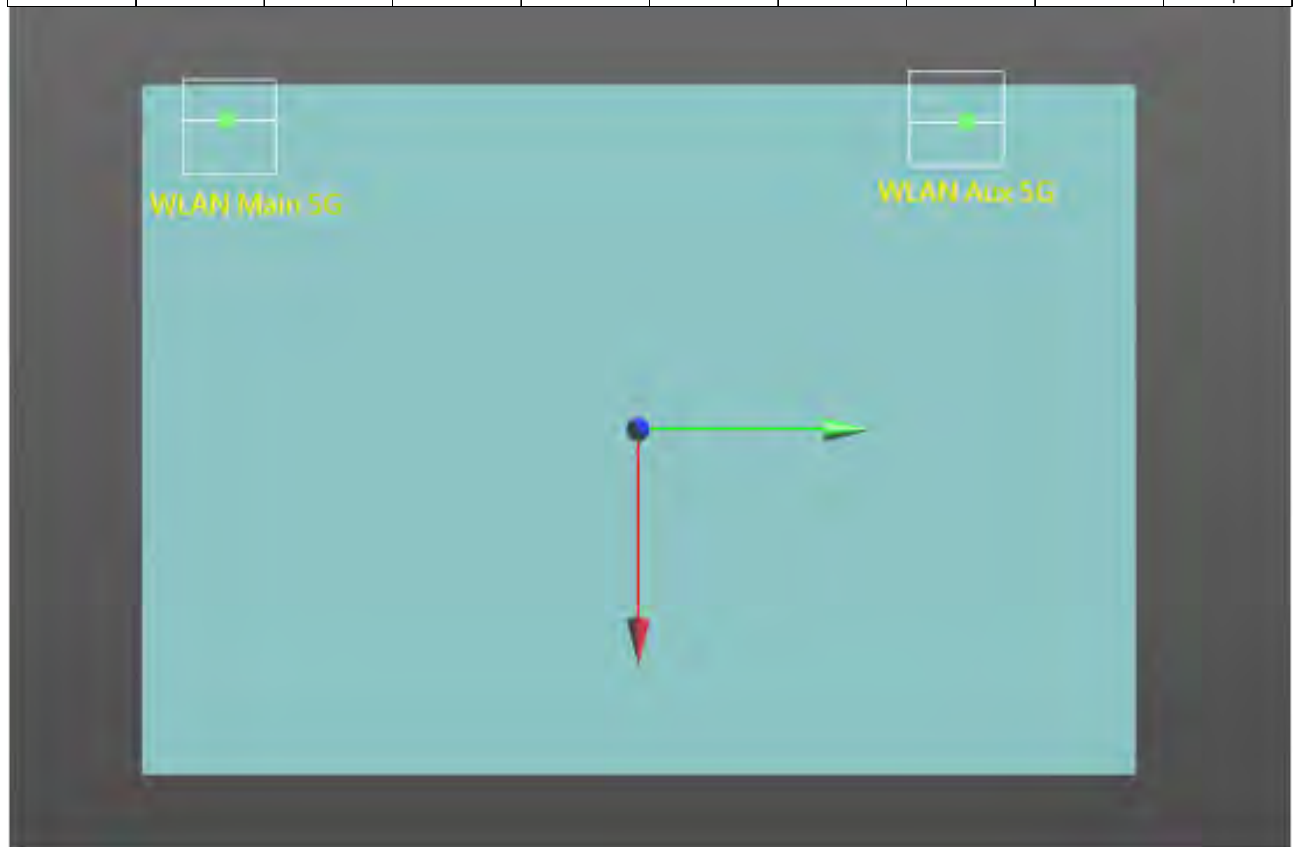
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							Scenario1	Scenario2	Scenario3	Scenario4	Scenario5
		1	2	3	4	6	1+2	1+6	3+4+6	3+4	3+6
Exposure Position		2.4GHz WLAN Main	2.4GHz WLAN Aux	5GHz WLAN Main	5GHz WLAN Aux	Bluetooth Aux	Summed	Summed	Summed	Summed	Summed
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
Bottom Surface	0	0.948	1.104	1.113	1.098	0.210	2.052	1.158	2.421	2.211	1.323
Back Surface	0	0.983	0.999	1.110	1.180	0.528	1.982	1.511	2.818	2.290	1.638
Top Edge	0	0.373	0.271	0.372	1.049	0.141	0.644	0.514	1.562	1.421	0.513
Bottom Edge	0	0.001	0.001	0.001	0.001	0.002	0.002	0.003	0.004	0.002	0.003
Left Edge	0	0.001	0.001	0.071	0.001	0.002	0.002	0.003	0.074	0.072	0.073
Right Edge	0	0.001	0.001	0.044	0.070	0.002	0.002	0.003	0.116	0.114	0.046

Notebook mode

Scenario 1: WLAN 2.4GHz Main+WLAN 2.4GHz Aux Bottom Surface									
Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Bottom Surface	WLAN 2.4G Main	0.948	-9.759	-13.301	0.624	-	-	-	-
	WLAN 2.4G Aux	1.104	-9.715	10.561	0.576	2.052	292.95	0.010	SPLSR ≤ 0.04, Not required

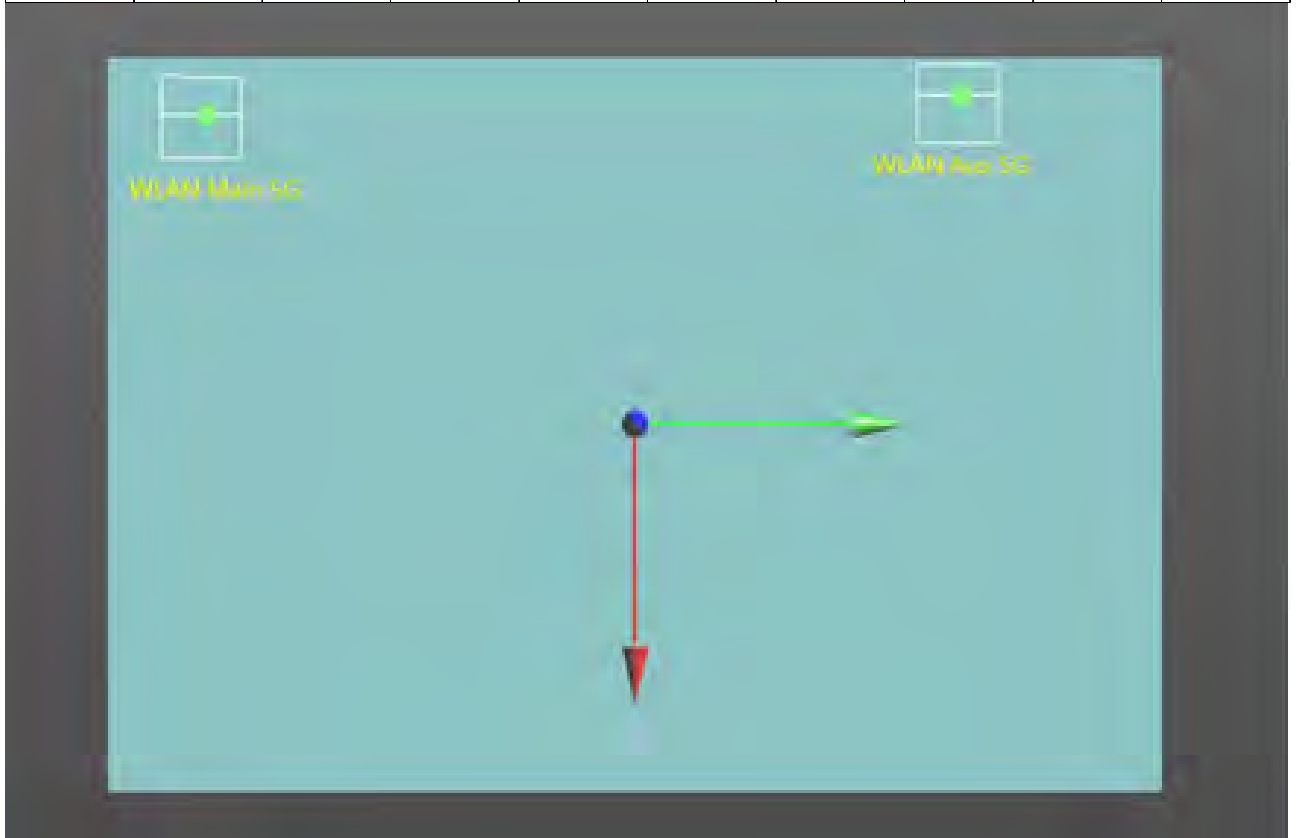


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Scenario 2: WLAN 5GHz Main+WLAN 5GHz Aux Bottom Surface									
Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Bottom Surface	WLAN 5G Main	1.113	-9.177	-13.042	0.606	-	-	-	-
	WLAN 5G Aux	1.098	-9.737	9.880	0.569	2.211	287.73	0.011	SPLSR ≤ 0.04, Not required

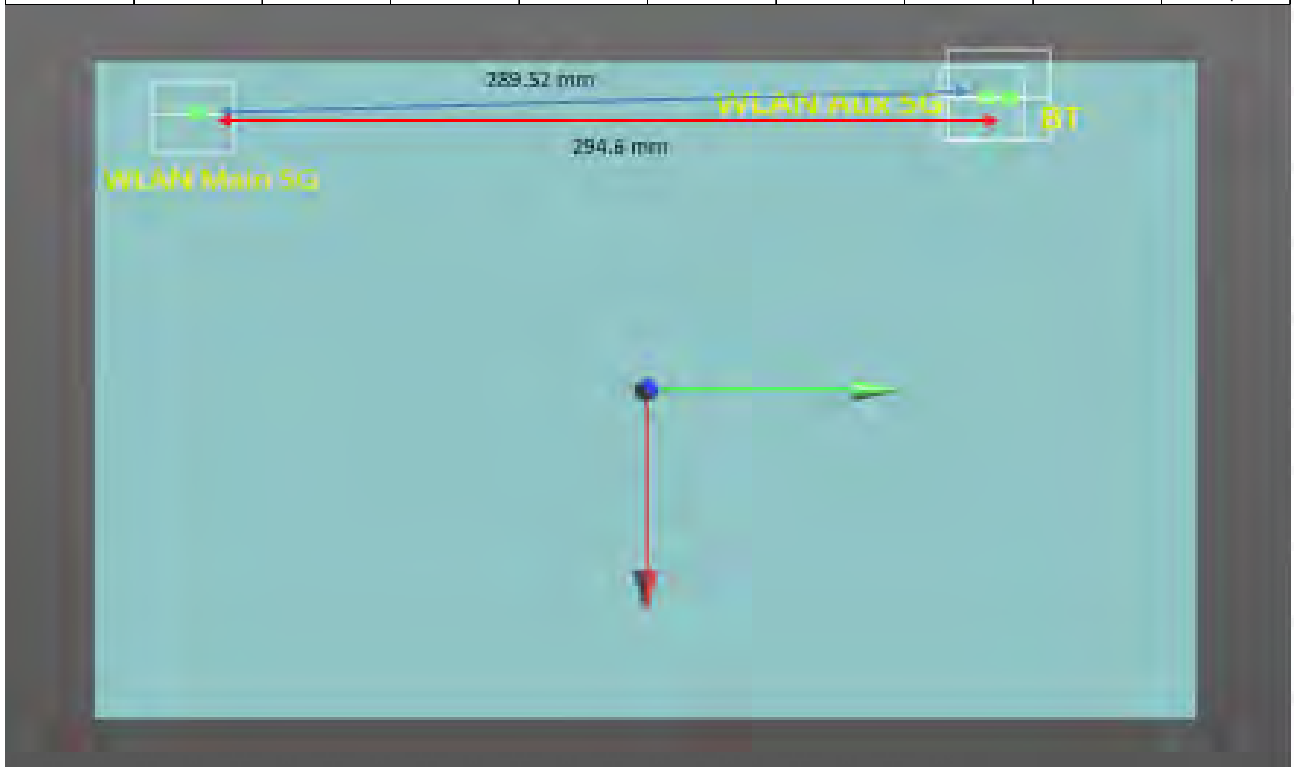


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Scenario 3: WLAN 5GHz Main+WLAN 5GHz Aux+BT Aux Back Surface									
Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Bottom Surface	WLAN 5G Main	1.113	-9.177	-13.042	0.606	-	-	-	-
	WLAN 5G Aux + BT	1.285	-9.737	9.880	0.569	2.398	289.52	0.013	SPLSR ≤ 0.04, Not required



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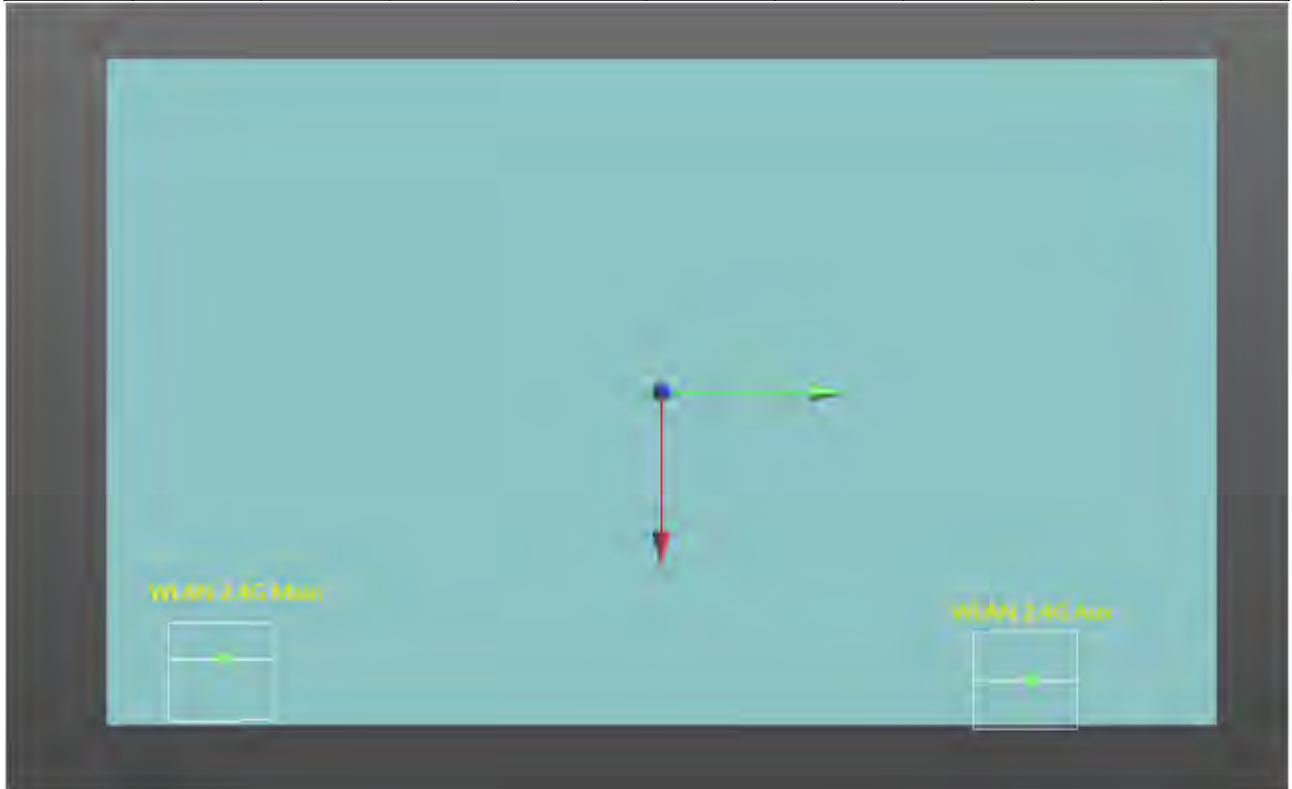
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Tablet mode

Scenario 1: WLAN 2.4GHz Main+WLAN 2.4GHz Aux Back Surface									
Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Back Surface	WLAN 2.4G Main	0.983	8.244	-12.583	0.562	-	-	-	-
	WLAN 2.4G Aux	0.999	8.884	10.681	0.590	1.982	232.73	0.012	SPLSR ≤ 0.04, Not required

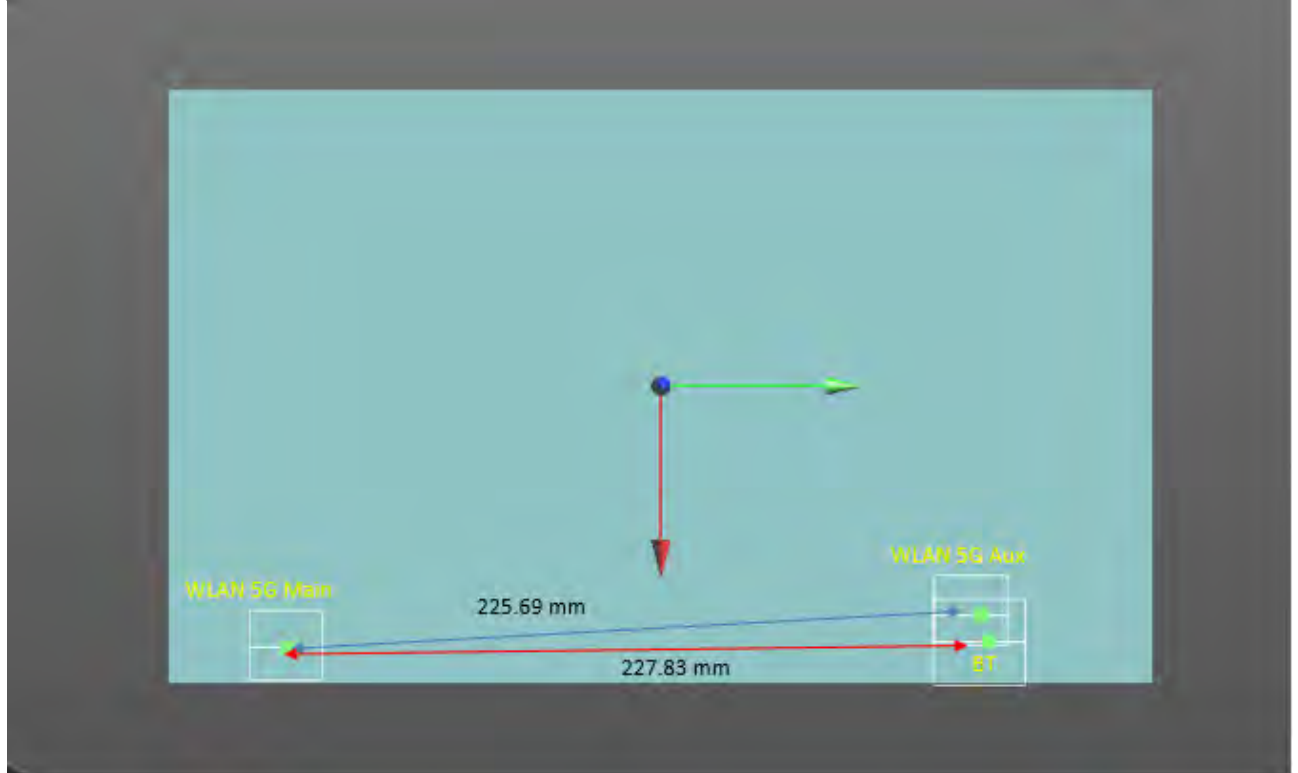


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Scenario 2: WLAN 5GHz Main+WLAN 5GHz Aux+BT Aux Back Surface									
Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Back Surface	WLAN 5G Main	1.110	9.083	-12.121	0.589	-	-	-	-
	WLAN 5G Aux + BT	1.593	7.964	10.420	0.533	2.703	225.69	0.020	SPLSR ≤ 0.04, Not required

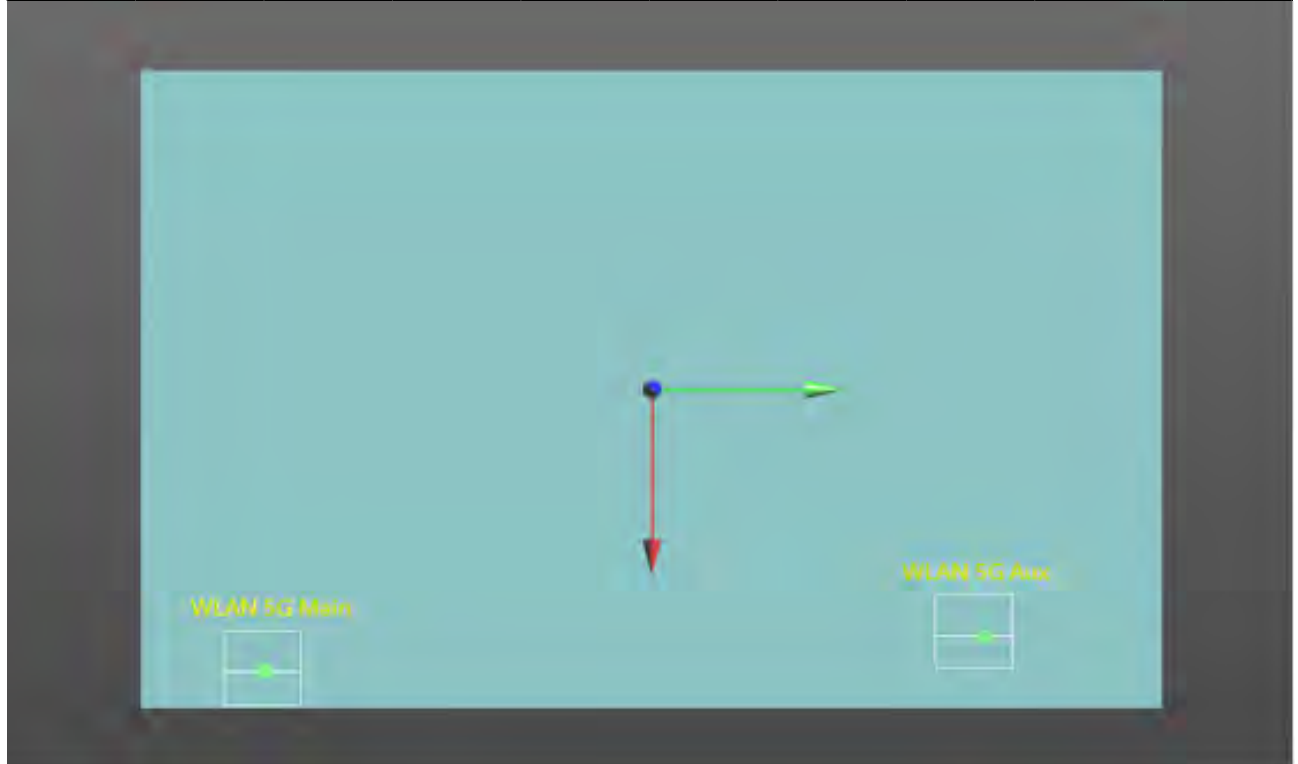


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Scenario 3: WLAN 5GHz Main+WLAN 5GHz Aux Back Surface									
Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Back Surface	WLAN 5G Main	1.110	9.083	-12.121	0.589	-	-	-	-
	WLAN 5G Aux	1.180	7.964	10.420	0.533	2.290	225.69	0.015	SPLSR ≤ 0.04, Not required



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4. Instruments List

Manufacturer	Device	Type	Serial number	Date of last calibration	Date of next calibration
SPEAG	Dosimetric E-Field Probe	EX3DV4	3938	Jan.25,2022	Jan.24,2023
SPEAG	System Validation Dipole	D2450V2	727	Apr.14,2021	Apr.13,2022
		D5GHzV2	1023	Jan.27,2022	Jan.26,2023
SPEAG	Data acquisition Electronics	DAE4	1305	Apr.09,2021	Apr.08,2022
SPEAG	Software	DASY52 4.7.80	N/A	Calibration not required	Calibration not required
SPEAG	Phantom	ELI	N/A	Calibration not required	Calibration not required
SPEAG	Dielectric Assessment Kit	DAKS-3.5	1053	Feb.28,2022	Feb.27,2023
Agilent	Dual-directional coupler	772D	MY46151242	Aug.16,2021	Aug.15,2022
		778D	MY48220468	Aug.16,2021	Aug.15,2022
Agilent	Signal Generator	N5181A	MY50141235	May.30,2021	May.29,2022
Anritsu	Power Meter	ML2496A	1337004	Oct.08,2021	Oct.07,2022
Anritsu	Power Sensor	MA2411B	1306052	Oct.08,2021	Oct.07,2022
R&S		NRP18S	101974	Oct.12,2021	Oct.11,2022
TECPEL	Digital thermometer	DTM-303A	TP130074	Apr.26,2021	Apr.25,2022

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5. Measurements

Date: 2022/3/27

Report No. : E5/2022/30001

WLAN 802.11b_Body_Bottom_Surface_CH 11_0mm_Main

Communication System: WLAN; Frequency: 2462 MHz; Duty Cycle: 1:1.008

Medium parameters used: $f = 2462 \text{ MHz}$; $\sigma = 1.817 \text{ S/m}$; $\epsilon_r = 39.174$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 23°C ; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(7.39, 7.39, 7.39); Calibrated: 2022/1/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2021/4/9
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

Area Scan (71x101x1): Interpolated grid: $dx=12 \text{ mm}$, $dy=12 \text{ mm}$

Maximum value of SAR (interpolated) = 1.61 W/kg

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

Reference Value = 1.547 V/m ; Power Drift = 0.01 dB

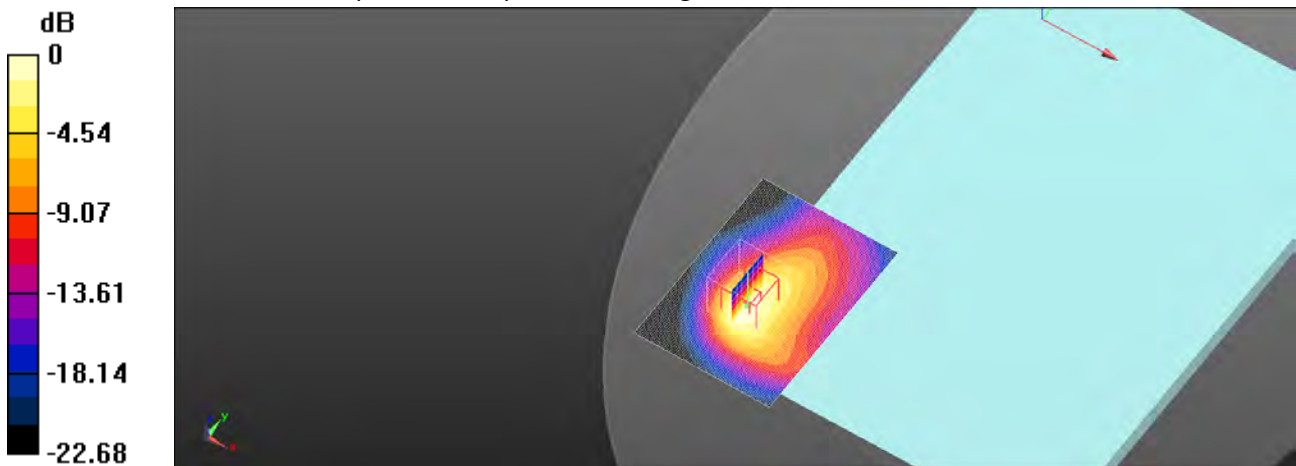
Peak SAR (extrapolated) = 1.99 W/kg

SAR(1 g) = 0.936 W/kg ; SAR(10 g) = 0.439 W/kg

Smallest distance from peaks to all points 3 dB below = 8.2 mm

Ratio of SAR at M2 to SAR at M1 = 66.6%

Maximum value of SAR (measured) = 1.42 W/kg



0 dB = $1.42 \text{ W/kg} = 1.53 \text{ dBW/kg}$

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Date: 2022/3/28

Report No. : E5/2022/30001

WLAN 802.11n(40M) 5.2G_Body_Bottom Surface_CH 38_0mm_Main

Communication System: WLAN; Frequency: 5190 MHz; Duty Cycle: 1:1.038

Medium parameters used: $f = 5190 \text{ MHz}$; $\sigma = 4.639 \text{ S/m}$; $\epsilon_r = 35.986$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.8°C; Liquid temperature: 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(5.05, 5.05, 5.05); Calibrated: 2022/1/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2021/4/9
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

Area Scan (81x121x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

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

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

Reference Value = 2.442 V/m; Power Drift = 0.05 dB

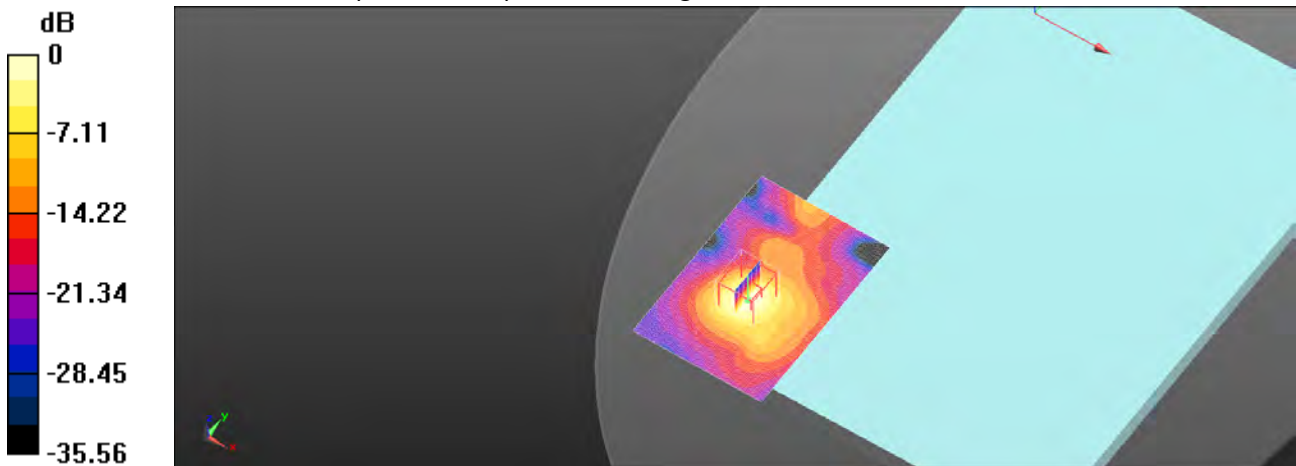
Peak SAR (extrapolated) = 3.85 W/kg

SAR(1 g) = 1.01 W/kg; SAR(10 g) = 0.332 W/kg

Smallest distance from peaks to all points 3 dB below = 8.6 mm

Ratio of SAR at M2 to SAR at M1 = 55.9%

Maximum value of SAR (measured) = 2.00 W/kg



0 dB = 2.00 W/kg = 3.00 dBW/kg

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Date: 2022/3/28

Report No. : E5/2022/30001

WLAN 802.11ac(80M) 5.2G_Body_Bottom Surface_CH 42_0mm_Main

Communication System: WLAN; Frequency: 5210 MHz; Duty Cycle: 1:1.078

Medium parameters used: $f = 5210 \text{ MHz}$; $\sigma = 4.659 \text{ S/m}$; $\epsilon_r = 35.964$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.8°C; Liquid temperature: 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(5.05, 5.05, 5.05); Calibrated: 2022/1/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2021/4/9
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

Area Scan (81x121x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 2.05 W/kg

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

Reference Value = 2.295 V/m; Power Drift = 0.06 dB

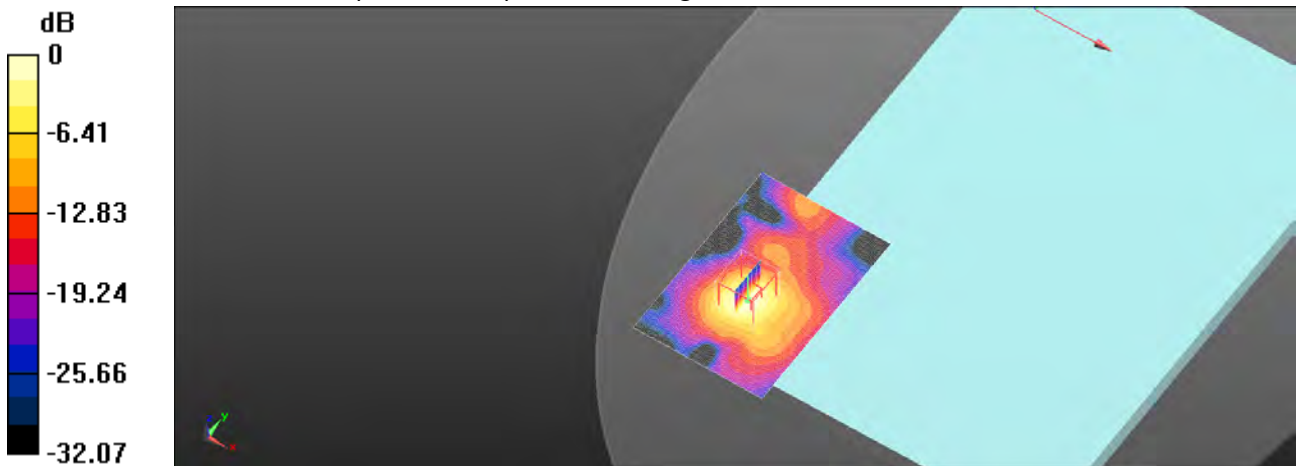
Peak SAR (extrapolated) = 3.98 W/kg

SAR(1 g) = 1.03 W/kg; SAR(10 g) = 0.334 W/kg

Smallest distance from peaks to all points 3 dB below = 9.6 mm

Ratio of SAR at M2 to SAR at M1 = 52.9%

Maximum value of SAR (measured) = 2.05 W/kg



0 dB = 2.05 W/kg = 3.12 dBW/kg

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Member of SGS Group

Date: 2022/3/30

Report No. : E5/2022/30001

WLAN 802.11n(40M) 5.3G_Body_Bottom Surface_CH 54_0mm_Main

Communication System: WLAN; Frequency: 5270 MHz; Duty Cycle: 1:1.038

Medium parameters used: $f = 5270 \text{ MHz}$; $\sigma = 4.817 \text{ S/m}$; $\epsilon_r = 36.648$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C ; Liquid temperature: 21.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(5.05, 5.05, 5.05); Calibrated: 2022/1/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2021/4/9
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

Area Scan (81x121x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 1.56 W/kg

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

Reference Value = 1.330 V/m ; Power Drift = -0.03 dB

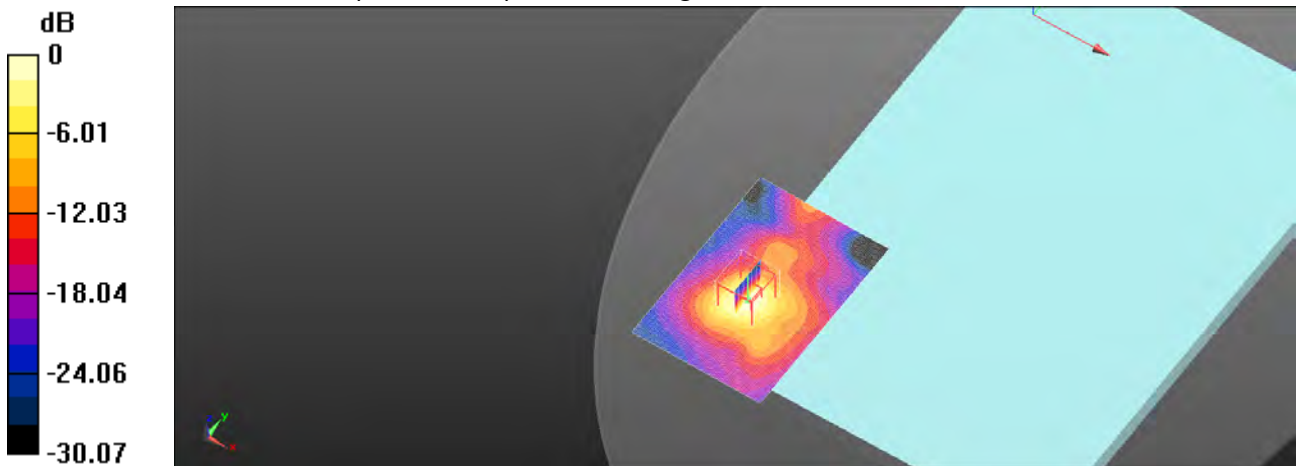
Peak SAR (extrapolated) = 3.30 W/kg

SAR(1 g) = 0.827 W/kg ; SAR(10 g) = 0.269 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 55.1%

Maximum value of SAR (measured) = 1.63 W/kg



0 dB = $1.63 \text{ W/kg} = 2.12 \text{ dBW/kg}$

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Date: 2022/3/30

Report No. : E5/2022/30001

WLAN 802.11ac(80M) 5.3G_Body_Bottom Surface_CH 58_0mm_Main

Communication System: WLAN; Frequency: 5290 MHz; Duty Cycle: 1:1.078

Medium parameters used: $f = 5290 \text{ MHz}$; $\sigma = 4.838 \text{ S/m}$; $\epsilon_r = 36.625$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C ; Liquid temperature: 21.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(5.05, 5.05, 5.05); Calibrated: 2022/1/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2021/4/9
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

Area Scan (81x121x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 1.63 W/kg

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

Reference Value = 1.823 V/m ; Power Drift = 0.04 dB

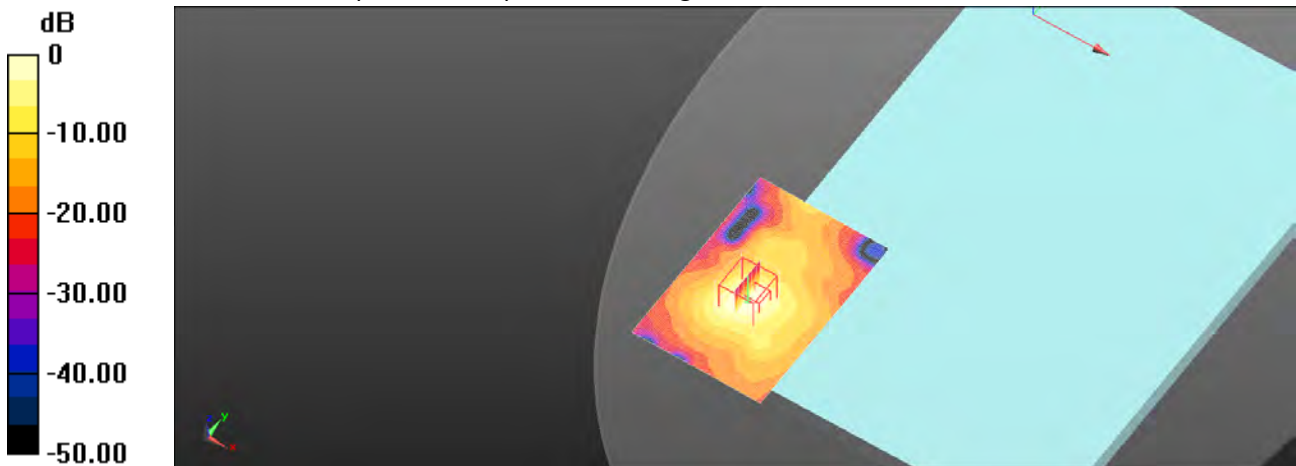
Peak SAR (extrapolated) = 7.17 W/kg

SAR(1 g) = 0.844 W/kg ; SAR(10 g) = 0.193 W/kg

Smallest distance from peaks to all points 3 dB below = 6.5 mm

Ratio of SAR at M2 to SAR at M1 = 54.8%

Maximum value of SAR (measured) = 1.69 W/kg



0 dB = $1.69 \text{ W/kg} = 2.28 \text{ dBW/kg}$

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Date: 2022/3/31

Report No. : E5/2022/30001

WLAN 802.11ac(80M) 5.6G_Body_Bottom Surface_CH 106_0mm_Main

Communication System: WLAN; Frequency: 5530 MHz; Duty Cycle: 1:1.078

Medium parameters used: $f = 5530$ MHz; $\sigma = 4.988$ S/m; $\epsilon_r = 35.598$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(4.6, 4.6, 4.6); Calibrated: 2022/1/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2021/4/9
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

Area Scan (81x121x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.68 W/kg

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

Reference Value = 1.905 V/m; Power Drift = 0.01 dB

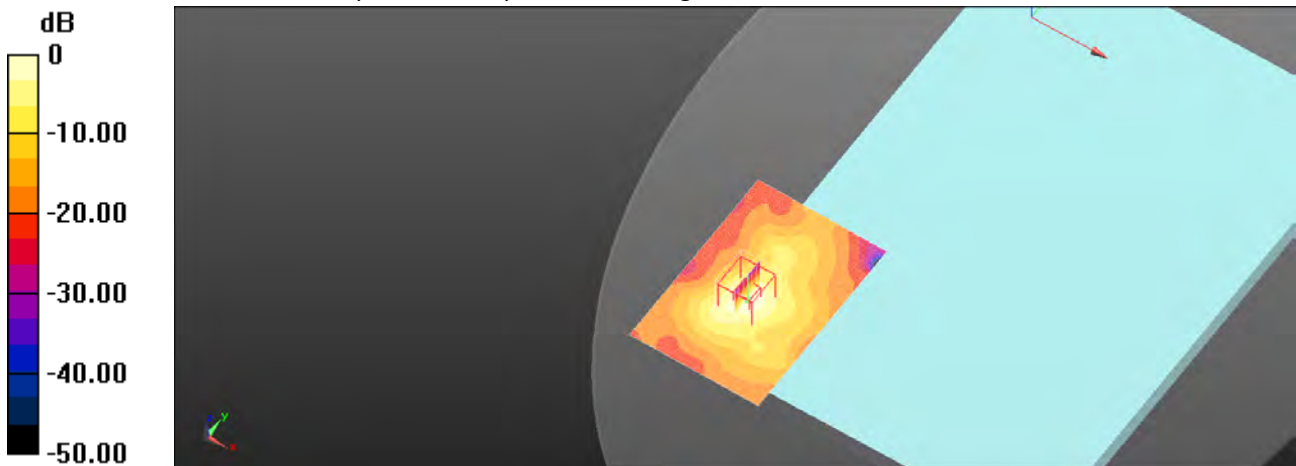
Peak SAR (extrapolated) = 3.84 W/kg

SAR(1 g) = 0.894 W/kg; SAR(10 g) = 0.284 W/kg

Smallest distance from peaks to all points 3 dB below = 7.7 mm

Ratio of SAR at M2 to SAR at M1 = 52.7%

Maximum value of SAR (measured) = 1.83 W/kg



0 dB = 1.83 W/kg = 2.62 dBW/kg

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Date: 2022/4/1

Report No. : E5/2022/30001

WLAN 802.11n(40M) 5.8G_Body_Bottom Surface_CH 151_0mm_Main

Communication System: WLAN; Frequency: 5755 MHz; Duty Cycle: 1:1.038

Medium parameters used: $f = 5755 \text{ MHz}$; $\sigma = 5.218 \text{ S/m}$; $\epsilon_r = 35.341$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(4.65, 4.65, 4.65); Calibrated: 2022/1/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2021/4/9
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

Area Scan (81x121x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 1.77 W/kg

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

Reference Value = 2.011 V/m; Power Drift = 0.04 dB

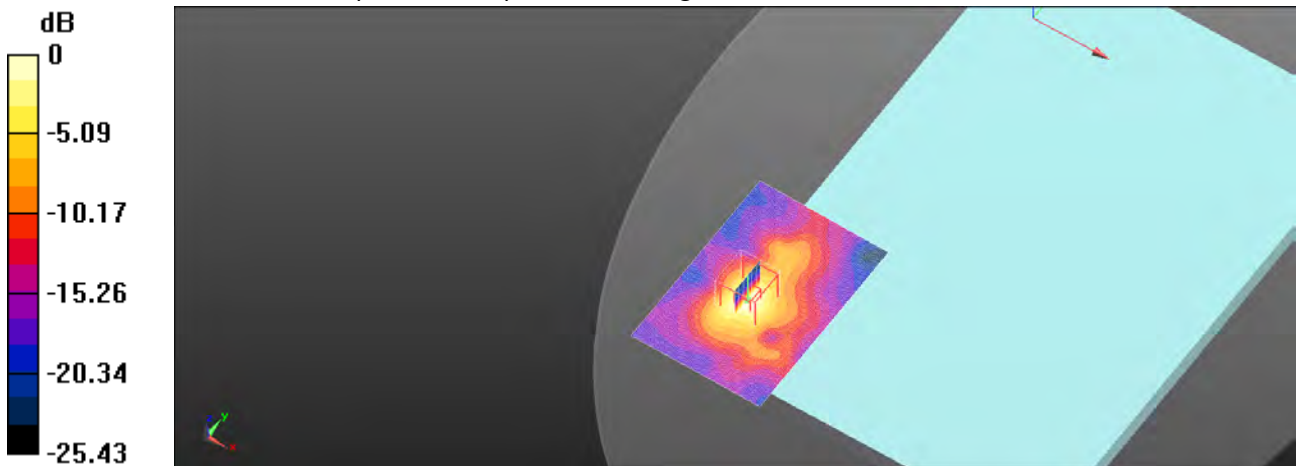
Peak SAR (extrapolated) = 4.13 W/kg

SAR(1 g) = 0.925 W/kg; SAR(10 g) = 0.301 W/kg

Smallest distance from peaks to all points 3 dB below = 8.2 mm

Ratio of SAR at M2 to SAR at M1 = 50.6%

Maximum value of SAR (measured) = 1.85 W/kg



0 dB = 1.85 W/kg = 2.67 dBW/kg

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Date: 2022/4/1

Report No. : E5/2022/30001

WLAN 802.11ac(80M) 5.8G_Body_Bottom Surface_CH 155_0mm_Main

Communication System: WLAN; Frequency: 5775 MHz; Duty Cycle: 1:1.078

Medium parameters used: $f = 5775 \text{ MHz}$; $\sigma = 5.238 \text{ S/m}$; $\epsilon_r = 35.318$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(4.65, 4.65, 4.65); Calibrated: 2022/1/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2021/4/9
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

Area Scan (81x121x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 1.75 W/kg

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

Reference Value = 1.914 V/m; Power Drift = -0.01 dB

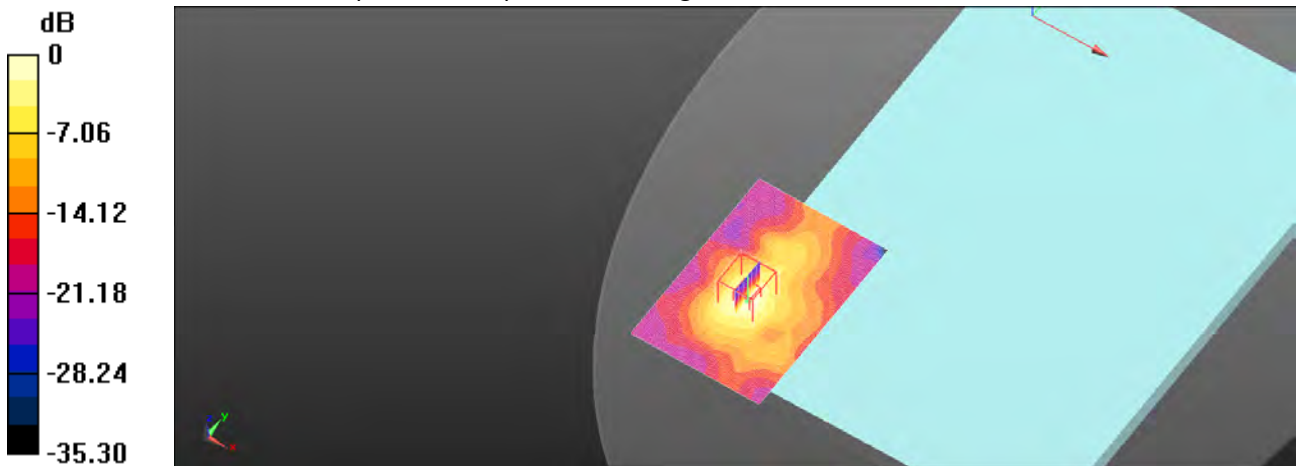
Peak SAR (extrapolated) = 4.12 W/kg

SAR(1 g) = 0.905 W/kg; SAR(10 g) = 0.290 W/kg

Smallest distance from peaks to all points 3 dB below = 7.9 mm

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

Maximum value of SAR (measured) = 1.84 W/kg



0 dB = 1.84 W/kg = 2.64 dBW/kg

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Date: 2022/3/27

Report No. : E5/2022/30001

WLAN 802.11b_Body_Bottom Surface_CH 6_0mm_Aux

Communication System: WLAN; Frequency: 2437 MHz; Duty Cycle: 1:1.008

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.796$ S/m; $\epsilon_r = 39.212$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 23°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(7.39, 7.39, 7.39); Calibrated: 2022/1/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2021/4/9
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

Area Scan (71x91x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 1.90 W/kg

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

Reference Value = 2.337 V/m; Power Drift = -0.03 dB

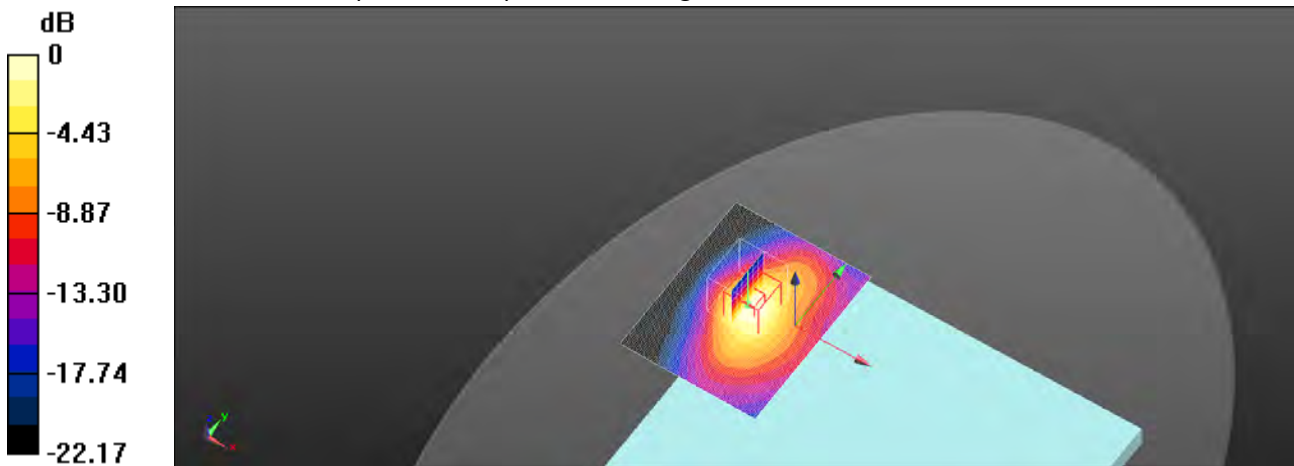
Peak SAR (extrapolated) = 2.55 W/kg

SAR(1 g) = 1.09 W/kg; SAR(10 g) = 0.518 W/kg

Smallest distance from peaks to all points 3 dB below = 8.9 mm

Ratio of SAR at M2 to SAR at M1 = 62.7%

Maximum value of SAR (measured) = 1.70 W/kg



0 dB = 1.70 W/kg = 2.30 dBW/kg

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Date: 2022/3/27

Report No. : E5/2022/30001

Bluetooth(GFSK)_Body_Bottom Surface_CH 0_0mm_Aux

Communication System: Bluetooth; Frequency: 2402 MHz; Duty Cycle: 1:1.295

Medium parameters used: $f = 2402$ MHz; $\sigma = 1.766$ S/m; $\epsilon_r = 39.275$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 23°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(7.39, 7.39, 7.39); Calibrated: 2022/1/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2021/4/9
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

Area Scan (71x91x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.221 W/kg

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

Reference Value = 0.563 V/m; Power Drift = 0.02 dB

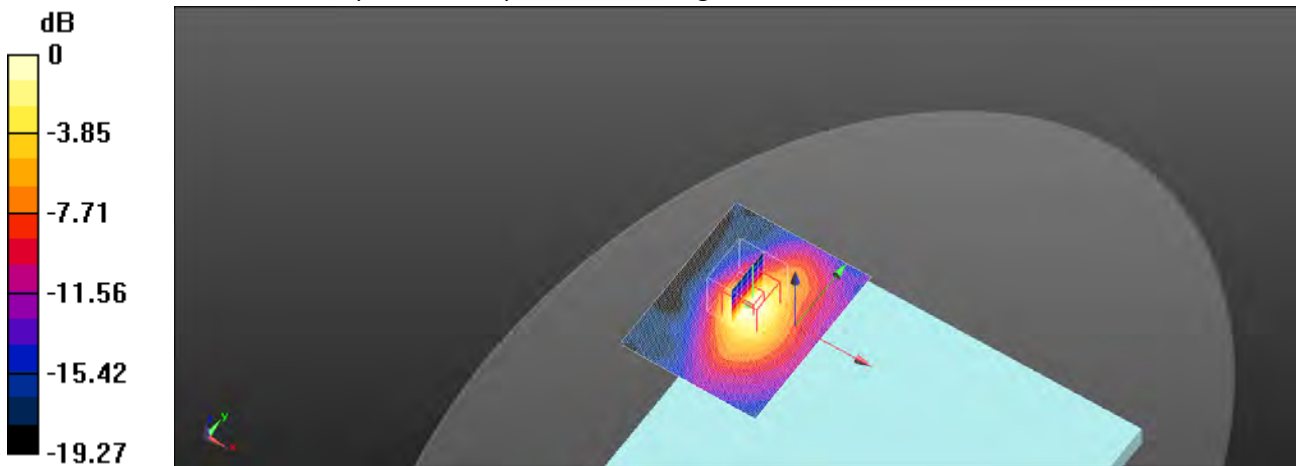
Peak SAR (extrapolated) = 0.288 W/kg

SAR(1 g) = 0.124 W/kg; SAR(10 g) = 0.059 W/kg

Smallest distance from peaks to all points 3 dB below = 9.2 mm

Ratio of SAR at M2 to SAR at M1 = 53.4%

Maximum value of SAR (measured) = 0.191 W/kg



0 dB = 0.191 W/kg = -7.20 dBW/kg

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Date: 2022/3/28

Report No. : E5/2022/30001

WLAN 802.11n(40M) 5.2G_Body_Bottom Surface_CH 46_0mm_Aux

Communication System: WLAN; Frequency: 5230 MHz; Duty Cycle: 1:1.038

Medium parameters used: $f = 5230 \text{ MHz}$; $\sigma = 4.68 \text{ S/m}$; $\epsilon_r = 35.941$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.8°C; Liquid temperature: 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(5.05, 5.05, 5.05); Calibrated: 2022/1/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2021/4/9
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

Area Scan (81x121x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 1.72 W/kg

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

Reference Value = 2.247 V/m; Power Drift = 0.03 dB

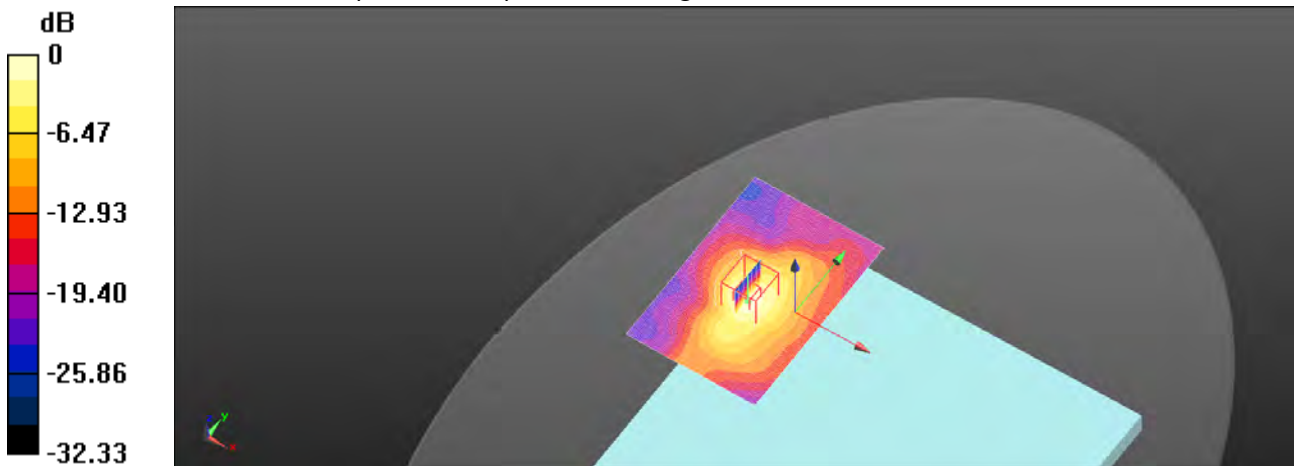
Peak SAR (extrapolated) = 3.46 W/kg

SAR(1 g) = 0.918 W/kg; SAR(10 g) = 0.315 W/kg

Smallest distance from peaks to all points 3 dB below = 8.5 mm

Ratio of SAR at M2 to SAR at M1 = 54.9%

Maximum value of SAR (measured) = 1.77 W/kg



0 dB = 1.77 W/kg = 2.48 dBW/kg

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Date: 2022/3/28

Report No. : E5/2022/30001

WLAN 802.11ac(80M) 5.2G_Body_Bottom Surface_CH 42_0mm_Aux

Communication System: WLAN; Frequency: 5210 MHz; Duty Cycle: 1:1.078

Medium parameters used: $f = 5210 \text{ MHz}$; $\sigma = 4.659 \text{ S/m}$; $\epsilon_r = 35.964$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.8°C; Liquid temperature: 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(5.05, 5.05, 5.05); Calibrated: 2022/1/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2021/4/9
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

Area Scan (81x121x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 1.72 W/kg

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

Reference Value = 2.083 V/m; Power Drift = 0.06 dB

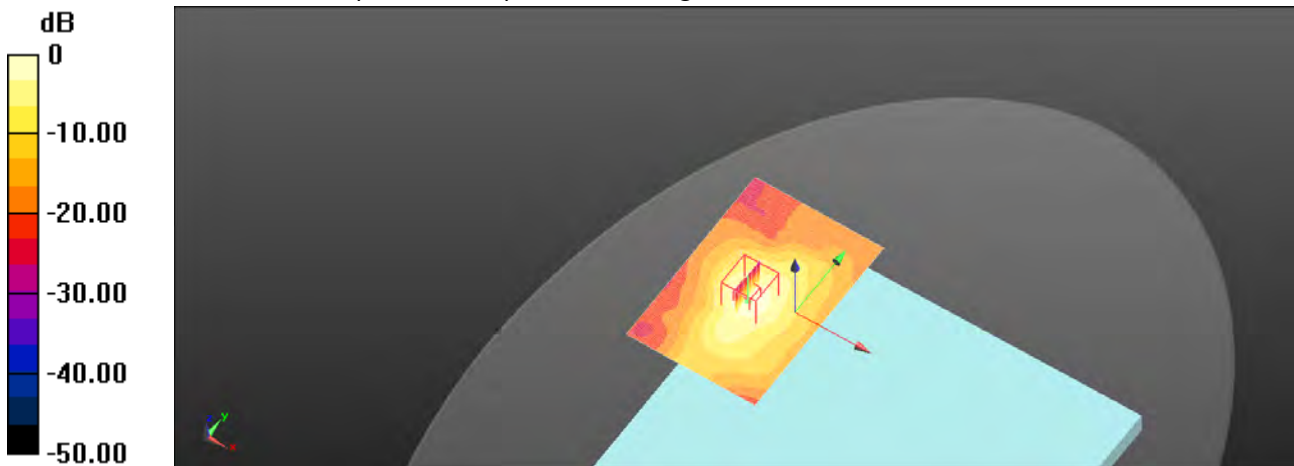
Peak SAR (extrapolated) = 3.52 W/kg

SAR(1 g) = 0.918 W/kg; SAR(10 g) = 0.315 W/kg

Smallest distance from peaks to all points 3 dB below = 7.9 mm

Ratio of SAR at M2 to SAR at M1 = 55.2%

Maximum value of SAR (measured) = 1.74 W/kg



0 dB = 1.74 W/kg = 2.42 dBW/kg

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Date: 2022/3/30

Report No. : E5/2022/30001

WLAN 802.11ac(80M) 5.3G_Body_Bottom Surface_CH 58_0mm_Aux

Communication System: WLAN; Frequency: 5290 MHz; Duty Cycle: 1:1.078

Medium parameters used: $f = 5290 \text{ MHz}$; $\sigma = 4.838 \text{ S/m}$; $\epsilon_r = 36.625$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4C; Liquid temperature: 21.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(5.05, 5.05, 5.05); Calibrated: 2022/1/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2021/4/9
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

Area Scan (81x121x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 1.31 W/kg

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

Reference Value = 1.621 V/m; Power Drift = 0.01 dB

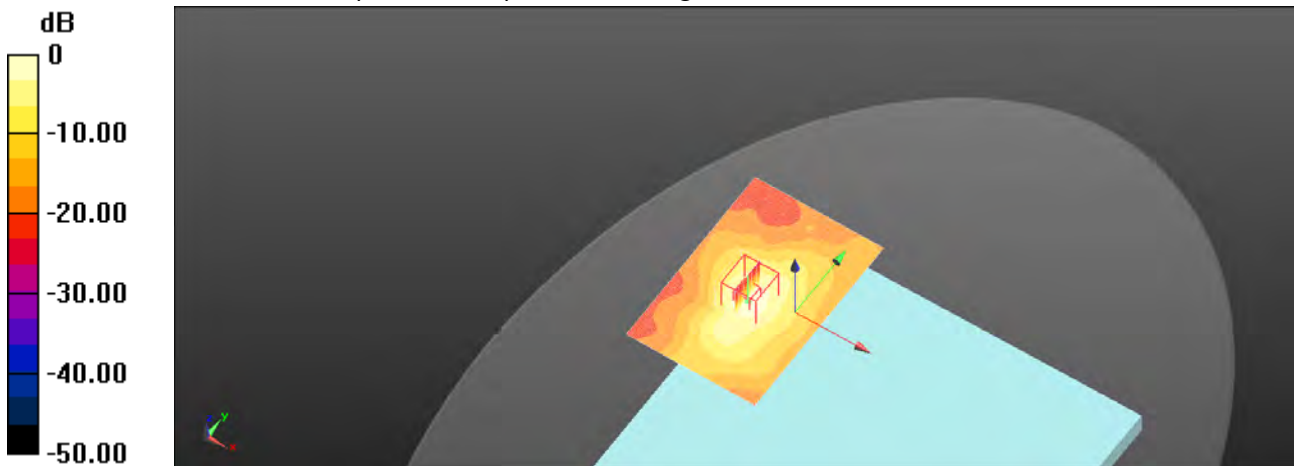
Peak SAR (extrapolated) = 2.79 W/kg

SAR(1 g) = 0.713 W/kg; SAR(10 g) = 0.242 W/kg

Smallest distance from peaks to all points 3 dB below = 7.1 mm

Ratio of SAR at M2 to SAR at M1 = 54.8%

Maximum value of SAR (measured) = 1.37 W/kg



0 dB = 1.37 W/kg = 1.38 dBW/kg

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Date: 2022/3/31

Report No. : E5/2022/30001

WLAN 802.11ac(80M) 5.6G_Body_Bottom Surface_CH 138_0mm_Aux

Communication System: WLAN; Frequency: 5690 MHz; Duty Cycle: 1:1.078

Medium parameters used: $f = 5690$ MHz; $\sigma = 5.151$ S/m; $\epsilon_r = 35.415$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(4.65, 4.65, 4.65); Calibrated: 2022/1/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2021/4/9
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

Area Scan (81x121x1): Interpolated grid: dx=10 mm, dy=10 mm

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

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

Reference Value = 1.770 V/m; Power Drift = 0.05 dB

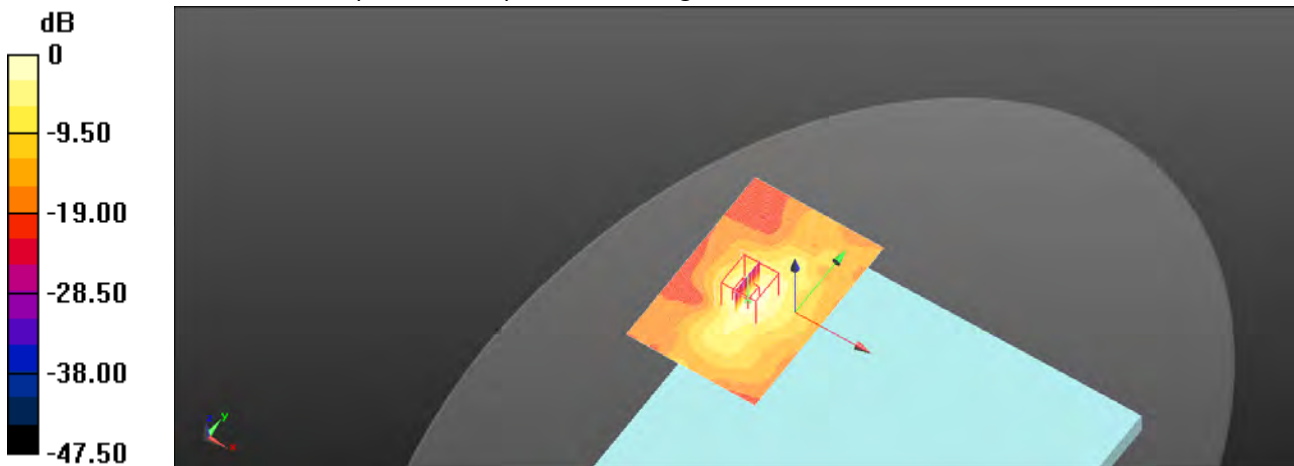
Peak SAR (extrapolated) = 4.44 W/kg

SAR(1 g) = 1 W/kg; SAR(10 g) = 0.324 W/kg

Smallest distance from peaks to all points 3 dB below = 9.9 mm

Ratio of SAR at M2 to SAR at M1 = 52.4%

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



0 dB = 1.95 W/kg = 2.91 dBW/kg

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Date: 2022/4/1

Report No. : E5/2022/30001

WLAN 802.11n(40M) 5.8G_Body_Bottom Surface_CH 151_0mm_Aux

Communication System: WLAN; Frequency: 5755 MHz; Duty Cycle: 1:1.038

Medium parameters used: $f = 5755 \text{ MHz}$; $\sigma = 5.218 \text{ S/m}$; $\epsilon_r = 35.341$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(4.65, 4.65, 4.65); Calibrated: 2022/1/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2021/4/9
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

Area Scan (81x121x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 1.98 W/kg

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

Reference Value = 1.994 V/m; Power Drift = 0.02 dB

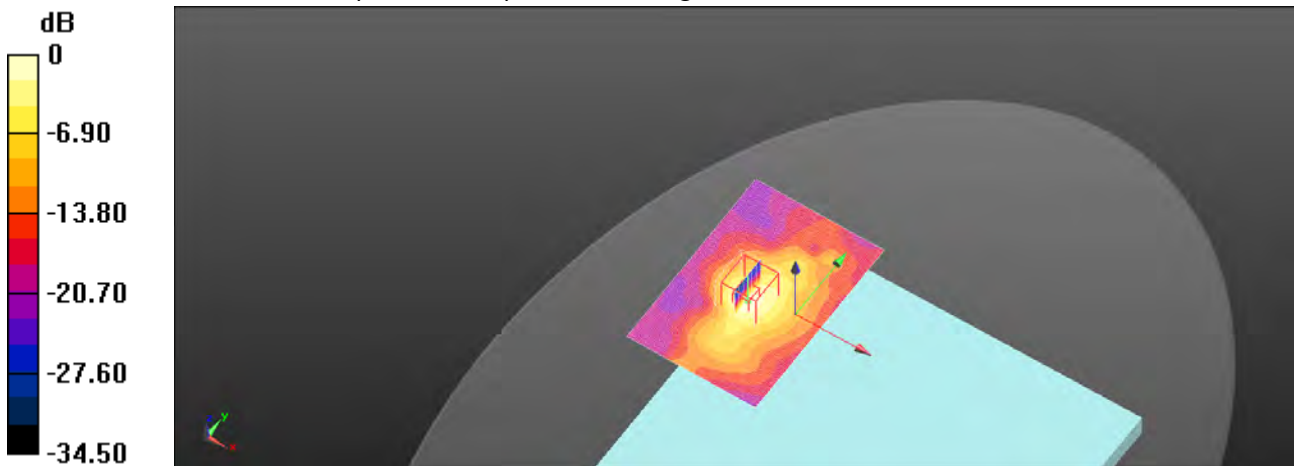
Peak SAR (extrapolated) = 4.54 W/kg

SAR(1 g) = 1.02 W/kg; SAR(10 g) = 0.329 W/kg

Smallest distance from peaks to all points 3 dB below = 7.1 mm

Ratio of SAR at M2 to SAR at M1 = 50.4%

Maximum value of SAR (measured) = 2.10 W/kg



0 dB = 2.10 W/kg = 3.21 dBW/kg

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Date: 2022/4/1

Report No. : E5/2022/30001

WLAN 802.11ac(80M) 5.8G_Body_Bottom Surface_CH 155_0mm_Aux

Communication System: WLAN; Frequency: 5775 MHz; Duty Cycle: 1:1.078

Medium parameters used: $f = 5775$ MHz; $\sigma = 5.238$ S/m; $\epsilon_r = 35.318$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(4.65, 4.65, 4.65); Calibrated: 2022/1/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2021/4/9
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

Area Scan (81x121x1): Interpolated grid: dx=10 mm, dy=10 mm

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

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

Reference Value = 1.778 V/m; Power Drift = 0.04 dB

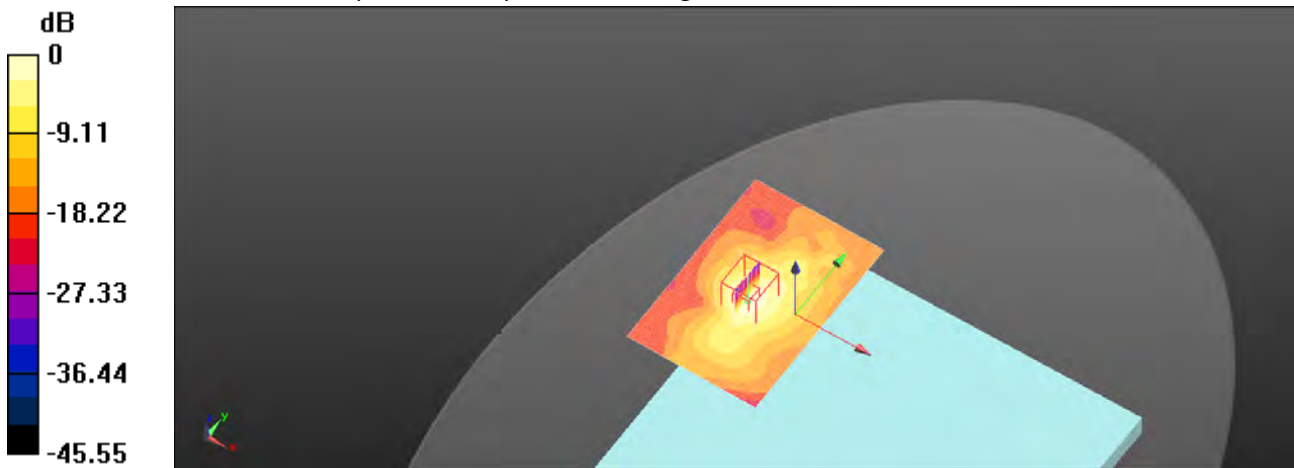
Peak SAR (extrapolated) = 4.42 W/kg

SAR(1 g) = 0.982 W/kg; SAR(10 g) = 0.316 W/kg

Smallest distance from peaks to all points 3 dB below = 7.7 mm

Ratio of SAR at M2 to SAR at M1 = 60.2%

Maximum value of SAR (measured) = 2.05 W/kg



0 dB = 2.05 W/kg = 3.11 dBW/kg

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Date: 2022/3/27

Report No. : E5/2022/30001**WLAN 802.11b_Body_Back Surface_CH 6_0mm_Main**

Communication System: WLAN; Frequency: 2437 MHz; Duty Cycle: 1:1.008

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.796$ S/m; $\epsilon_r = 39.212$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 23°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(7.39, 7.39, 7.39); Calibrated: 2022/1/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2021/4/9
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

Area Scan (71x101x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 1.56 W/kg

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

Reference Value = 2.135 V/m; Power Drift = 0.01 dB

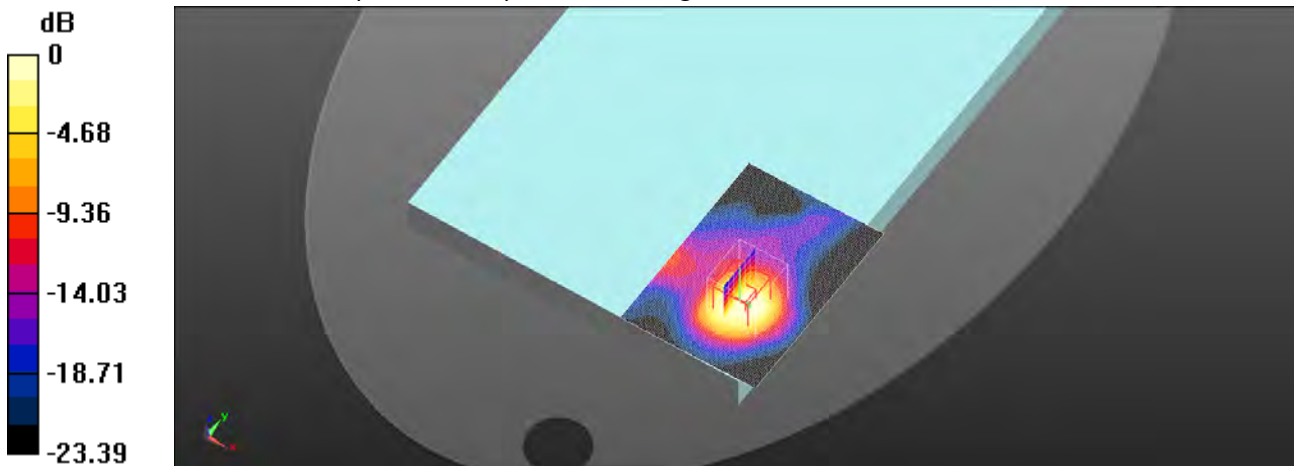
Peak SAR (extrapolated) = 1.70 W/kg

SAR(1 g) = 0.966 W/kg; SAR(10 g) = 0.469 W/kg

Smallest distance from peaks to all points 3 dB below = 10.3 mm

Ratio of SAR at M2 to SAR at M1 = 60.7%

Maximum value of SAR (measured) = 1.39 W/kg



0 dB = 1.39 W/kg = 1.43 dBW/kg

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Date: 2022/3/28

Report No. : E5/2022/30001

WLAN 802.11ac(80M) 5.2G_Body_Back Surface_CH 42_0mm_Main

Communication System: WLAN; Frequency: 5210 MHz; Duty Cycle: 1:1.078

Medium parameters used: $f = 5210 \text{ MHz}$; $\sigma = 4.659 \text{ S/m}$; $\epsilon_r = 35.964$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.8°C; Liquid temperature: 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(5.05, 5.05, 5.05); Calibrated: 2022/1/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2021/4/9
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

Area Scan (81x121x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 1.84 W/kg

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

Reference Value = 1.778 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 3.25 W/kg

SAR(1 g) = 0.827 W/kg; SAR(10 g) = 0.238 W/kg

Smallest distance from peaks to all points 3 dB below = 9.1 mm

Ratio of SAR at M2 to SAR at M1 = 58.9%

Maximum value of SAR (measured) = 1.77 W/kg

Zoom Scan (7x7x12)/Cube 1: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 1.778 V/m; Power Drift = 0.02 dB

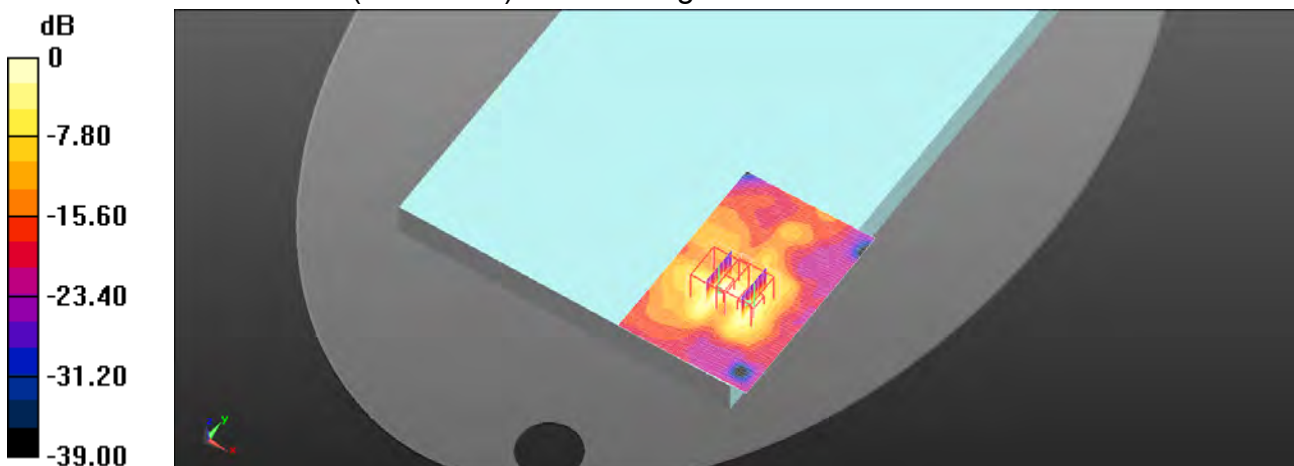
Peak SAR (extrapolated) = 3.35 W/kg

SAR(1 g) = 0.773 W/kg; SAR(10 g) = 0.247 W/kg

Smallest distance from peaks to all points 3 dB below = 8.2 mm

Ratio of SAR at M2 to SAR at M1 = 54.4%

Maximum value of SAR (measured) = 1.61 W/kg



0 dB = 1.77 W/kg = 2.48 dBW/kg

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Date: 2022/3/28

Report No. : E5/2022/30001

WLAN 802.11ac(160M) 5.2G_Body_Back Surface_CH 50_0mm_Main

Communication System: WLAN; Frequency: 5250 MHz; Duty Cycle: 1:1.018

Medium parameters used: $f = 5250 \text{ MHz}$; $\sigma = 4.7 \text{ S/m}$; $\epsilon_r = 35.918$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.8°C; Liquid temperature: 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(5.05, 5.05, 5.05); Calibrated: 2022/1/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2021/4/9
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

Area Scan (81x121x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 1.96 W/kg

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

Reference Value = 1.855 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 3.38 W/kg

SAR(1 g) = 0.850 W/kg; SAR(10 g) = 0.261 W/kg

Smallest distance from peaks to all points 3 dB below = 8.6 mm

Ratio of SAR at M2 to SAR at M1 = 58.1%

Maximum value of SAR (measured) = 1.66 W/kg

Zoom Scan (7x7x12)/Cube 1: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 1.855 V/m; Power Drift = 0.04 dB

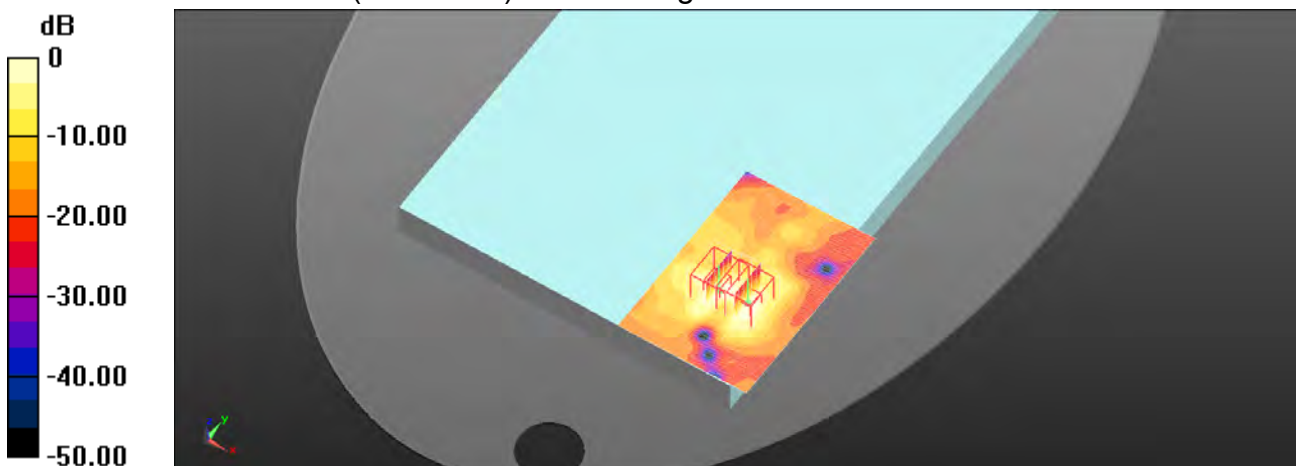
Peak SAR (extrapolated) = 3.43 W/kg

SAR(1 g) = 0.777 W/kg; SAR(10 g) = 0.239 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 53.9%

Maximum value of SAR (measured) = 1.61 W/kg



0 dB = 1.66 W/kg = 2.21 dBW/kg

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Date: 2022/3/30

Report No. : E5/2022/30001

WLAN 802.11n(40M) 5.3G_Body_Back Surface_CH 54_0mm_Main

Communication System: WLAN; Frequency: 5270 MHz; Duty Cycle: 1:1.038

Medium parameters used: $f = 5270 \text{ MHz}$; $\sigma = 4.817 \text{ S/m}$; $\epsilon_r = 36.648$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 21.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(5.05, 5.05, 5.05); Calibrated: 2022/1/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2021/4/9
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

Area Scan (81x121x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 2.07 W/kg

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

Reference Value = 2.006 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 3.68 W/kg

SAR(1 g) = 0.917 W/kg; SAR(10 g) = 0.263 W/kg

Smallest distance from peaks to all points 3 dB below = 8.8 mm

Ratio of SAR at M2 to SAR at M1 = 59.2%

Maximum value of SAR (measured) = 1.91 W/kg

Zoom Scan (7x7x12)/Cube 1: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 2.006 V/m; Power Drift = -0.02 dB

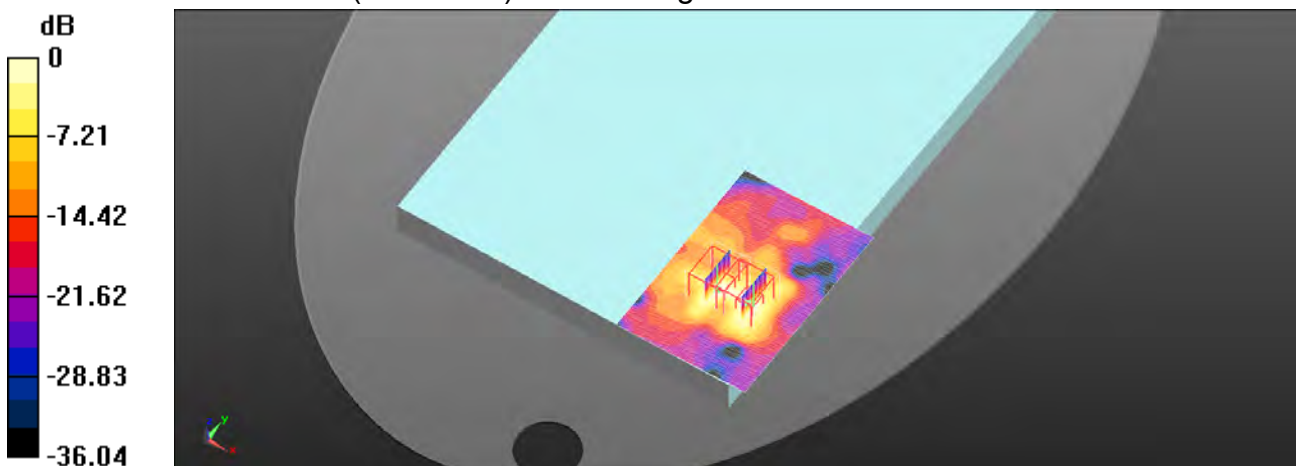
Peak SAR (extrapolated) = 3.94 W/kg

SAR(1 g) = 0.892 W/kg; SAR(10 g) = 0.273 W/kg

Smallest distance from peaks to all points 3 dB below = 7.9 mm

Ratio of SAR at M2 to SAR at M1 = 53.7%

Maximum value of SAR (measured) = 1.79 W/kg



0 dB = 1.91 W/kg = 2.80 dBW/kg

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Date: 2022/3/30

Report No. : E5/2022/30001

WLAN 802.11ac(80M) 5.3G_Body_Back Surface_CH 58_0mm_Main

Communication System: WLAN; Frequency: 5290 MHz; Duty Cycle: 1:1.078

Medium parameters used: $f = 5290 \text{ MHz}$; $\sigma = 4.838 \text{ S/m}$; $\epsilon_r = 36.625$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 21.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(5.05, 5.05, 5.05); Calibrated: 2022/1/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2021/4/9
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

Area Scan (81x121x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 1.91 W/kg

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

Reference Value = 1.669 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 3.27 W/kg

SAR(1 g) = 0.844 W/kg; SAR(10 g) = 0.247 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 58.6%

Maximum value of SAR (measured) = 1.77 W/kg

Zoom Scan (7x7x12)/Cube 1: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 1.669 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 3.84 W/kg

SAR(1 g) = 0.837 W/kg; SAR(10 g) = 0.256 W/kg

Smallest distance from peaks to all points 3 dB below = 6.6 mm

Ratio of SAR at M2 to SAR at M1 = 53.5%

Maximum value of SAR (measured) = 1.71 W/kg



0 dB = 1.77 W/kg = 2.49 dBW/kg

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Date: 2022/3/31

Report No. : E5/2022/30001

WLAN 802.11ac(80M) 5.6G_Body_Back Surface_CH 138_0mm_Main

Communication System: WLAN; Frequency: 5690 MHz; Duty Cycle: 1:1.078

Medium parameters used: $f = 5690 \text{ MHz}$; $\sigma = 5.151 \text{ S/m}$; $\epsilon_r = 35.415$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(4.65, 4.65, 4.65); Calibrated: 2022/1/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2021/4/9
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

Area Scan (81x121x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 2.28 W/kg

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

Reference Value = 2.550 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 4.73 W/kg

SAR(1 g) = 1.02 W/kg; SAR(10 g) = 0.289 W/kg

Smallest distance from peaks to all points 3 dB below = 9.2 mm

Ratio of SAR at M2 to SAR at M1 = 51.3%

Maximum value of SAR (measured) = 2.16 W/kg

Zoom Scan (7x7x12)/Cube 1: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 2.550 V/m; Power Drift = -0.06 dB

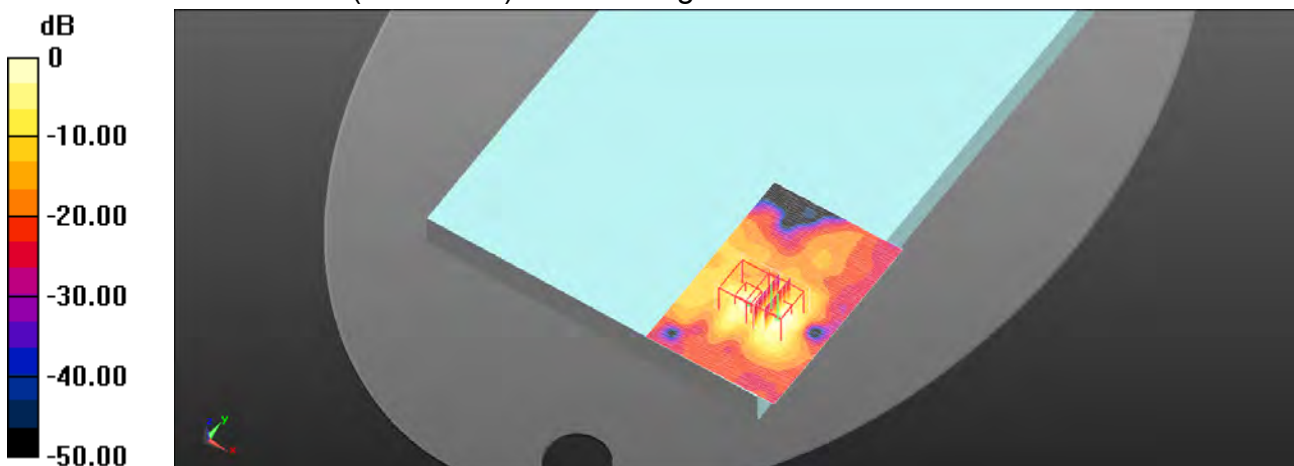
Peak SAR (extrapolated) = 3.24 W/kg

SAR(1 g) = 0.581 W/kg; SAR(10 g) = 0.197 W/kg

Smallest distance from peaks to all points 3 dB below = 8.4 mm

Ratio of SAR at M2 to SAR at M1 = 52.5%

Maximum value of SAR (measured) = 1.52 W/kg



0 dB = 2.16 W/kg = 3.35 dBW/kg

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Date: 2022/3/31

Report No. : E5/2022/30001

WLAN 802.11ac(160M) 5.6G_Body_Back Surface_CH 114_0mm_Main

Communication System: WLAN; Frequency: 5570 MHz; Duty Cycle: 1:1.018

Medium parameters used: $f = 5570$ MHz; $\sigma = 5.029$ S/m; $\epsilon_r = 35.552$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(4.6, 4.6, 4.6); Calibrated: 2022/1/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2021/4/9
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

Area Scan (81x121x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 2.31 W/kg

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

Reference Value = 2.606 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 4.89 W/kg

SAR(1 g) = 1.03 W/kg; SAR(10 g) = 0.284 W/kg

Smallest distance from peaks to all points 3 dB below = 6.9 mm

Ratio of SAR at M2 to SAR at M1 = 52.6%

Maximum value of SAR (measured) = 2.18 W/kg

Zoom Scan (7x7x12)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.606 V/m; Power Drift = 0.01 dB

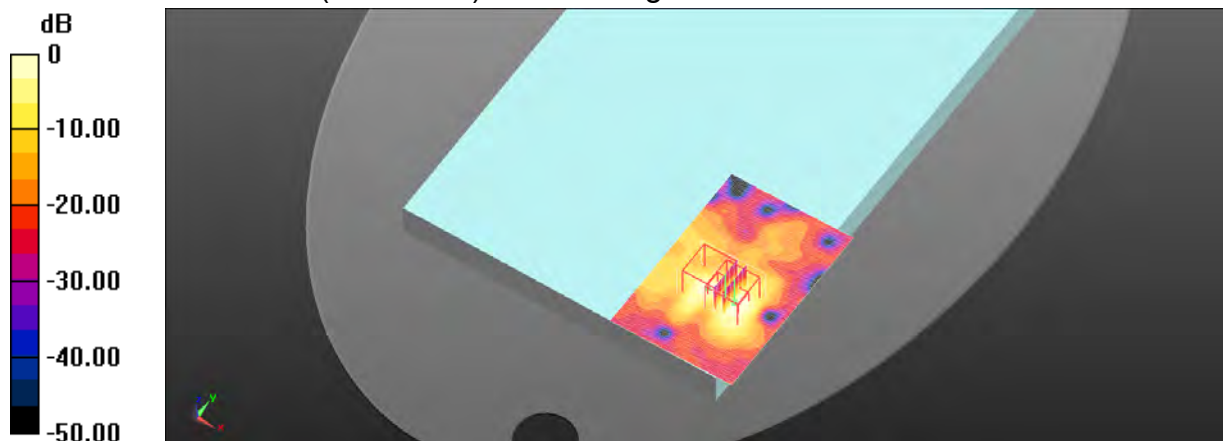
Peak SAR (extrapolated) = 4.05 W/kg

SAR(1 g) = 0.562 W/kg; SAR(10 g) = 0.081 W/kg

Smallest distance from peaks to all points 3 dB below = 6.2 mm

Ratio of SAR at M2 to SAR at M1 = 55.2%

Maximum value of SAR (measured) = 1.27 W/kg



0 dB = 2.18 W/kg = 3.38 dBW/kg

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Date: 2022/4/1

Report No. : E5/2022/30001

WLAN 802.11n(40M) 5.8G_Body_Back Surface_CH 151_0mm_Main

Communication System: WLAN; Frequency: 5755 MHz; Duty Cycle: 1:1.038

Medium parameters used: $f = 5755 \text{ MHz}$; $\sigma = 5.218 \text{ S/m}$; $\epsilon_r = 35.341$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(4.65, 4.65, 4.65); Calibrated: 2022/1/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2021/4/9
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

Area Scan (81x121x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 2.24 W/kg

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

Reference Value = 2.443 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 4.81 W/kg

SAR(1 g) = 1.02 W/kg; SAR(10 g) = 0.301 W/kg

Smallest distance from peaks to all points 3 dB below = 7.6 mm

Ratio of SAR at M2 to SAR at M1 = 51.5%

Maximum value of SAR (measured) = 2.14 W/kg

Zoom Scan (7x7x12)/Cube 1: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 2.443 V/m; Power Drift = 0.02 dB

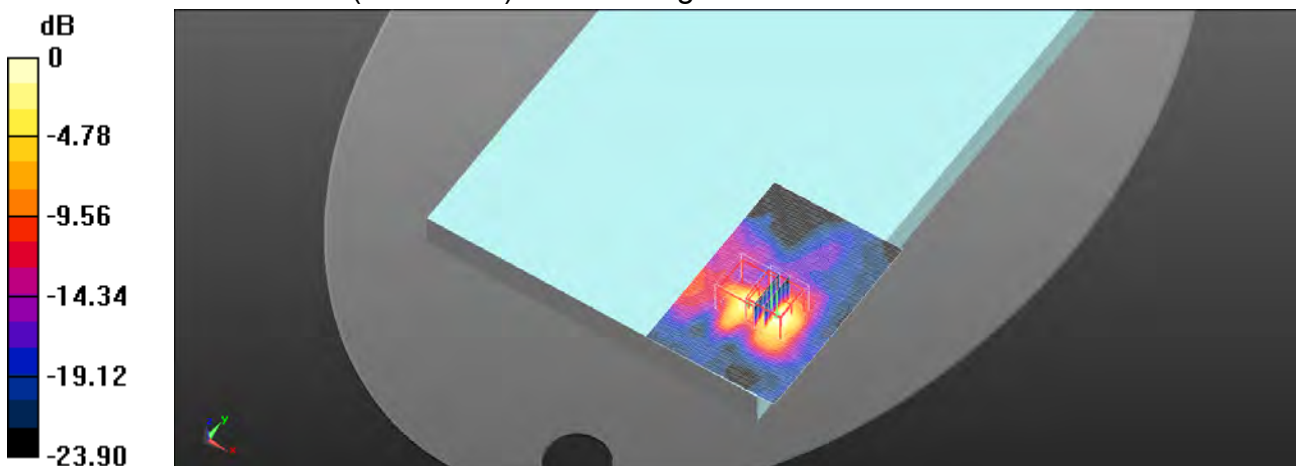
Peak SAR (extrapolated) = 3.37 W/kg

SAR(1 g) = 0.629 W/kg; SAR(10 g) = 0.212 W/kg

Smallest distance from peaks to all points 3 dB below = 6.8 mm

Ratio of SAR at M2 to SAR at M1 = 53.4%

Maximum value of SAR (measured) = 1.64 W/kg



0 dB = 2.14 W/kg = 3.30 dBW/kg

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Date: 2022/4/1

Report No. : E5/2022/30001

WLAN 802.11ac(80M) 5.8G_Body_Back Surface_CH 155_0mm_Main

Communication System: WLAN; Frequency: 5775 MHz; Duty Cycle: 1:1.078

Medium parameters used: $f = 5775 \text{ MHz}$; $\sigma = 5.238 \text{ S/m}$; $\epsilon_r = 35.318$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(4.65, 4.65, 4.65); Calibrated: 2022/1/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2021/4/9
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

Area Scan (81x121x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 2.24 W/kg

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

Reference Value = 2.614 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 4.68 W/kg

SAR(1 g) = 1.01 W/kg; SAR(10 g) = 0.293 W/kg

Smallest distance from peaks to all points 3 dB below = 6.5 mm

Ratio of SAR at M2 to SAR at M1 = 51.1%

Maximum value of SAR (measured) = 2.14 W/kg

Zoom Scan (7x7x12)/Cube 1: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 2.614 V/m; Power Drift = 0.05 dB

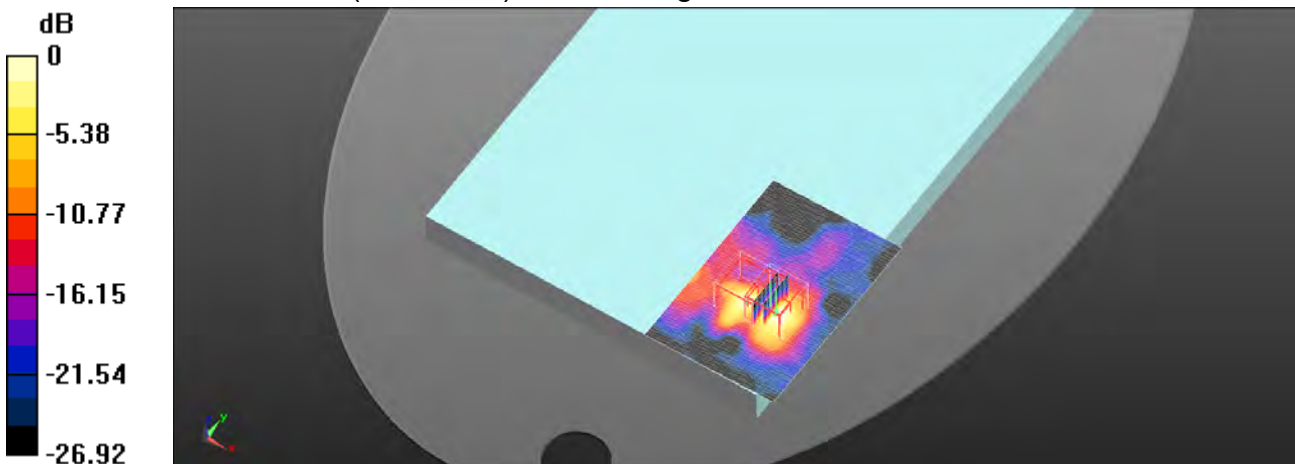
Peak SAR (extrapolated) = 3.53 W/kg

SAR(1 g) = 0.639 W/kg; SAR(10 g) = 0.211 W/kg

Smallest distance from peaks to all points 3 dB below = 5.9 mm

Ratio of SAR at M2 to SAR at M1 = 52%

Maximum value of SAR (measured) = 1.67 W/kg



0 dB = 2.14 W/kg = 3.30 dBW/kg

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Date: 2022/3/27

Report No. : E5/2022/30001

WLAN 802.11b_Body_Back Surface_CH 6_0mm_Aux

Communication System: WLAN; Frequency: 2437 MHz; Duty Cycle: 1:1.008

Medium parameters used: $f = 2437 \text{ MHz}$; $\sigma = 1.796 \text{ S/m}$; $\epsilon_r = 39.212$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 23°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(7.39, 7.39, 7.39)z; Calibrated: 2022/1/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2021/4/9
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

Area Scan (61x101x1): Interpolated grid: $dx=12 \text{ mm}$, $dy=12 \text{ mm}$

Maximum value of SAR (interpolated) = 1.81 W/kg

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

Reference Value = 2.257 V/m; Power Drift = 0.01 dB

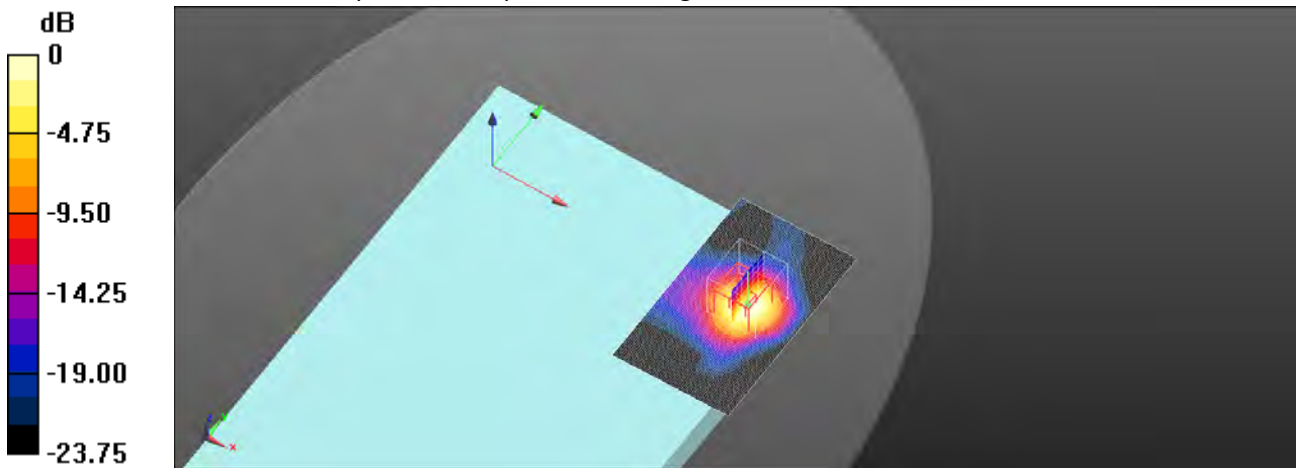
Peak SAR (extrapolated) = 2.10 W/kg

SAR(1 g) = 0.982 W/kg; SAR(10 g) = 0.423 W/kg

Smallest distance from peaks to all points 3 dB below = 8.6 mm

Ratio of SAR at M2 to SAR at M1 = 66.1%

Maximum value of SAR (measured) = 1.48 W/kg



0 dB = 1.48 W/kg = 1.72 dBW/kg

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Date: 2022/3/27

Report No. : E5/2022/30001

Bluetooth(GFSK)_Body_Back Surface_CH 78_0mm_Aux

Communication System: Bluetooth; Frequency: 2480 MHz; Duty Cycle: 1:1.295
Medium parameters used: $f = 2480$ MHz; $\sigma = 1.833$ S/m; $\epsilon_r = 39.151$; $\rho = 1000$ kg/m³
Phantom section: Flat Section
Ambient temperature: 23°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(7.39, 7.39, 7.39); Calibrated: 2022/1/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2021/4/9
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

Area Scan (61x101x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.563 W/kg

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

Reference Value = 0.450 V/m; Power Drift = -0.06 dB

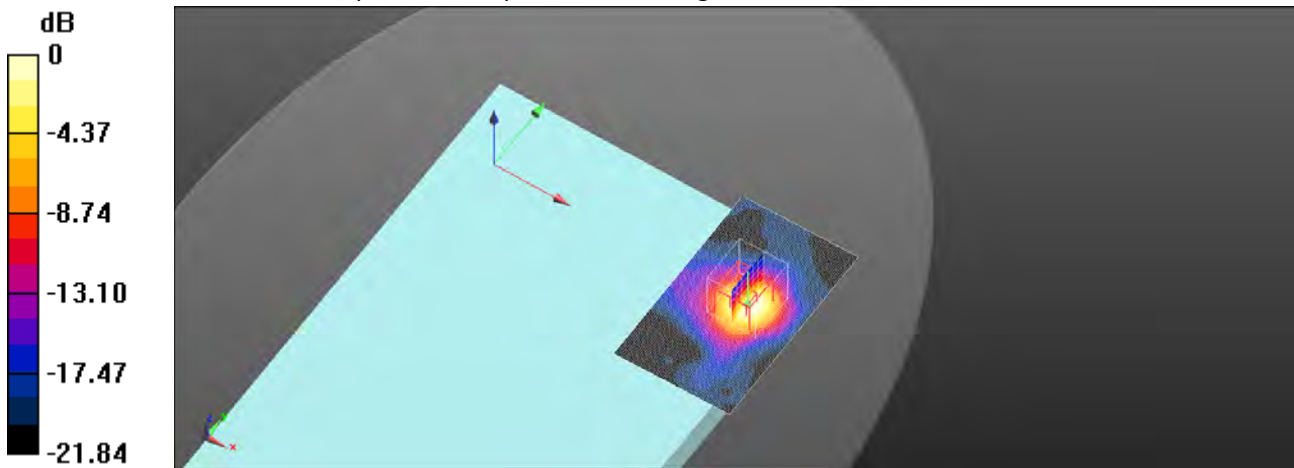
Peak SAR (extrapolated) = 0.663 W/kg

SAR(1 g) = 0.301 W/kg; SAR(10 g) = 0.129 W/kg

Smallest distance from peaks to all points 3 dB below = 9 mm

Ratio of SAR at M2 to SAR at M1 = 58.3%

Maximum value of SAR (measured) = 0.452 W/kg



0 dB = 0.452 W/kg = -3.45 dBW/kg

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Member of SGS Group

Date: 2022/3/28

Report No. : E5/2022/30001

WLAN 802.11ac(80M) 5.2G_Body_Back Surface_CH 42_0mm_Aux

Communication System: WLAN; Frequency: 5210 MHz; Duty Cycle: 1:1.078

Medium parameters used: $f = 5210 \text{ MHz}$; $\sigma = 4.659 \text{ S/m}$; $\epsilon_r = 35.964$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.8°C; Liquid temperature: 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(5.05, 5.05, 5.05); Calibrated: 2022/1/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2021/4/9
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

Area Scan (81x121x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 1.84 W/kg

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

Reference Value = 2.593 V/m; Power Drift = 0.03 dB

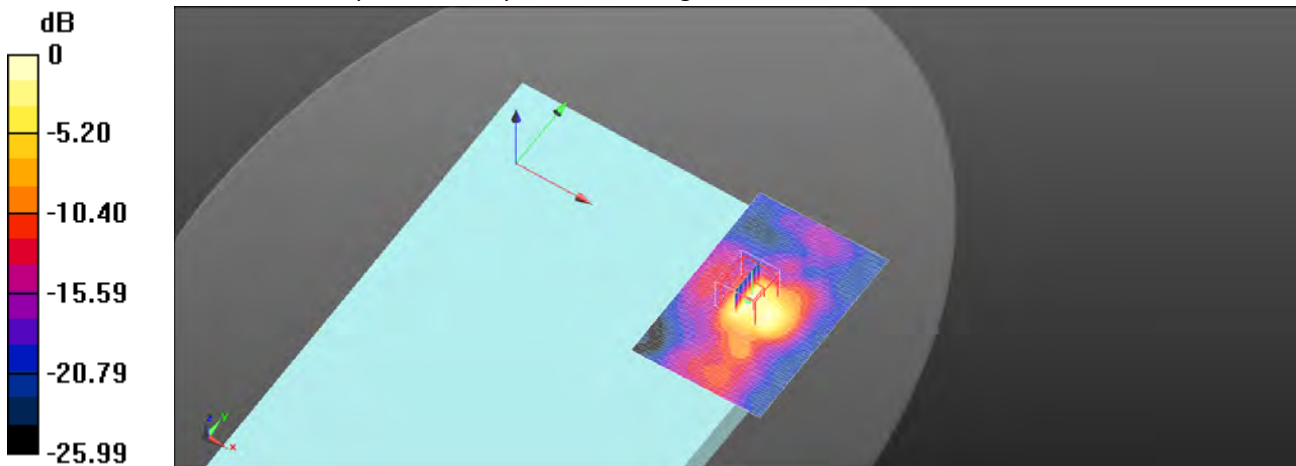
Peak SAR (extrapolated) = 3.83 W/kg

SAR(1 g) = 1.04 W/kg; SAR(10 g) = 0.301 W/kg

Smallest distance from peaks to all points 3 dB below = 6.7 mm

Ratio of SAR at M2 to SAR at M1 = 59.6%

Maximum value of SAR (measured) = 1.99 W/kg



0 dB = 1.99 W/kg = 2.99 dBW/kg

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Date: 2022/3/28

Report No. : E5/2022/30001

WLAN 802.11ac(160M) 5.2G_Body_Back Surface_CH 50_0mm_Aux

Communication System: WLAN; Frequency: 5250 MHz; Duty Cycle: 1:1.018

Medium parameters used: $f = 5250 \text{ MHz}$; $\sigma = 4.7 \text{ S/m}$; $\epsilon_r = 35.918$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.8°C; Liquid temperature: 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(5.05, 5.05, 5.05); Calibrated: 2022/1/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2021/4/9
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

Area Scan (81x121x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

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

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

Reference Value = 2.721 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 4.12 W/kg

SAR(1 g) = 1.09 W/kg; SAR(10 g) = 0.317 W/kg

Smallest distance from peaks to all points 3 dB below = 9.9 mm

Ratio of SAR at M2 to SAR at M1 = 59%

Maximum value of SAR (measured) = 2.11 W/kg

Zoom Scan (7x7x12)/Cube 1: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 2.721 V/m; Power Drift = -0.04 dB

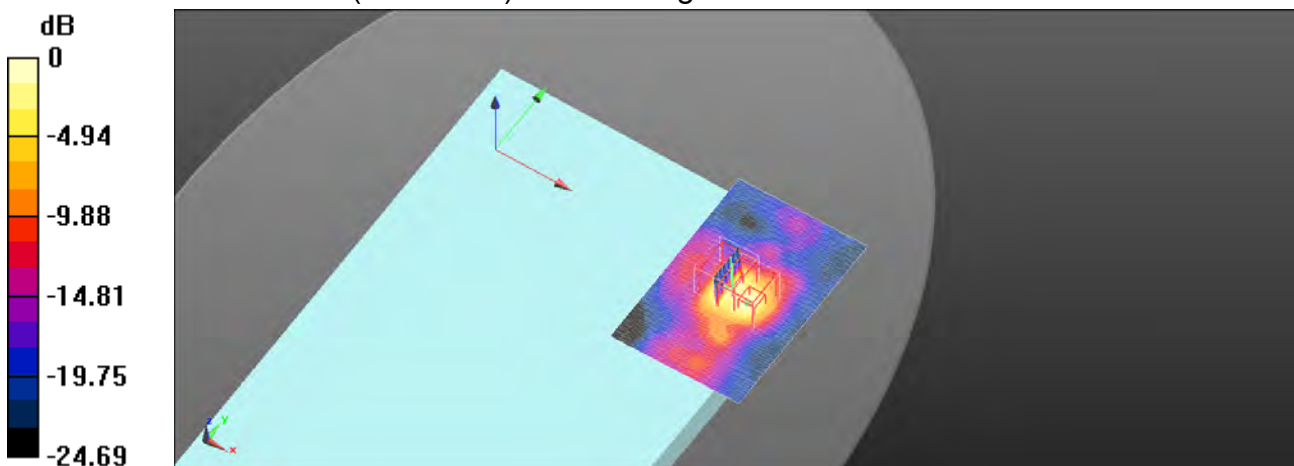
Peak SAR (extrapolated) = 3.95 W/kg

SAR(1 g) = 0.706 W/kg; SAR(10 g) = 0.270 W/kg

Smallest distance from peaks to all points 3 dB below = 8.5 mm

Ratio of SAR at M2 to SAR at M1 = 60.3%

Maximum value of SAR (measured) = 2.02 W/kg



0 dB = 2.11 W/kg = 3.25 dBW/kg

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Date: 2022/3/30

Report No. : E5/2022/30001

WLAN 802.11n(40M) 5.3G_Body_Back Surface_CH 54_0mm_Aux

Communication System: WLAN; Frequency: 5270 MHz; Duty Cycle: 1:1.038

Medium parameters used: $f = 5270 \text{ MHz}$; $\sigma = 4.817 \text{ S/m}$; $\epsilon_r = 36.648$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 21.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(5.05, 5.05, 5.05); Calibrated: 2022/1/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2021/4/9
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

Area Scan (81x121x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 1.43 W/kg

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

Reference Value = 1.787 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 2.98 W/kg

SAR(1 g) = 0.805 W/kg; SAR(10 g) = 0.235 W/kg

Smallest distance from peaks to all points 3 dB below = 9.2 mm

Ratio of SAR at M2 to SAR at M1 = 59.6%

Maximum value of SAR (measured) = 1.65 W/kg

Zoom Scan (7x7x12)/Cube 1: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 1.787 V/m; Power Drift = 0.01 dB

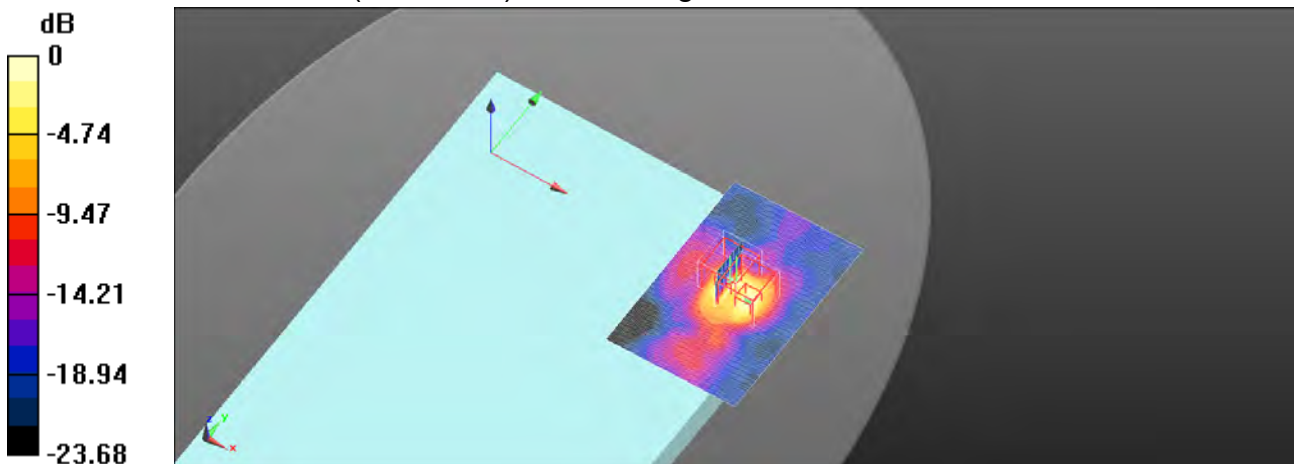
Peak SAR (extrapolated) = 2.80 W/kg

SAR(1 g) = 0.636 W/kg; SAR(10 g) = 0.217 W/kg

Smallest distance from peaks to all points 3 dB below = 8.7 mm

Ratio of SAR at M2 to SAR at M1 = 56.8%

Maximum value of SAR (measured) = 1.40 W/kg



0 dB = 1.65 W/kg = 2.17 dBW/kg

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Date: 2022/3/30

Report No. : E5/2022/30001

WLAN 802.11ac(80M) 5.3G_Body_Back Surface_CH 58_0mm_Aux

Communication System: WLAN; Frequency: 5290 MHz; Duty Cycle: 1:1.078

Medium parameters used: $f = 5290$ MHz; $\sigma = 4.838$ S/m; $\epsilon_r = 36.625$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 21. 9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(5.05, 5.05, 5.05); Calibrated: 2022/1/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2021/4/9
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

Area Scan (81x121x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.31 W/kg

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

Reference Value = 0.990 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 2.91 W/kg

SAR(1 g) = 0.773 W/kg; SAR(10 g) = 0.217 W/kg

Smallest distance from peaks to all points 3 dB below = 6.7 mm

Ratio of SAR at M2 to SAR at M1 = 59.4%

Maximum value of SAR (measured) = 1.58 W/kg

Zoom Scan (7x7x12)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 0.990 V/m; Power Drift = 0.03 dB

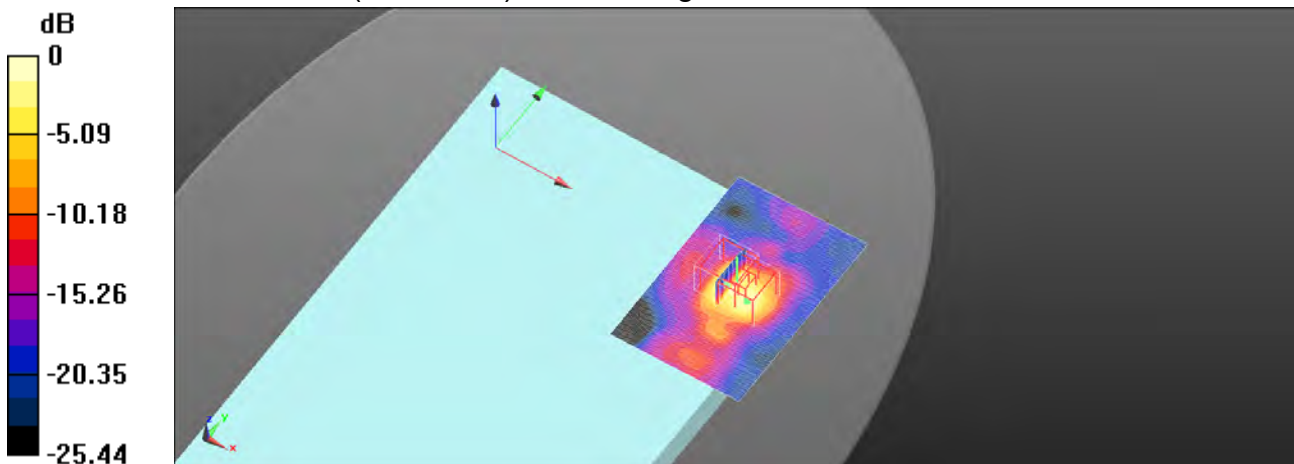
Peak SAR (extrapolated) = 2.92 W/kg

SAR(1 g) = 0.612 W/kg; SAR(10 g) = 0.225 W/kg

Smallest distance from peaks to all points 3 dB below = 5.5 mm

Ratio of SAR at M2 to SAR at M1 = 57.8%

Maximum value of SAR (measured) = 1.57 W/kg



0 dB = 1.58 W/kg = 1.99 dBW/kg

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Date: 2022/3/31

Report No. : E5/2022/30001

WLAN 802.11ac(80M) 5.6G_Body_Back Surface_CH 106_0mm_Aux

Communication System: WLAN; Frequency: 5530 MHz; Duty Cycle: 1:1.078

Medium parameters used: $f = 5530$ MHz; $\sigma = 4.988$ S/m; $\epsilon_r = 35.598$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(4.6, 4.6, 4.6); Calibrated: 2022/1/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2021/4/9
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

Area Scan (81x121x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.94 W/kg

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

Reference Value = 1.7070 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 4.59 W/kg

SAR(1 g) = 1.08 W/kg; SAR(10 g) = 0.312 W/kg

Smallest distance from peaks to all points 3 dB below = 7.1 mm

Ratio of SAR at M2 to SAR at M1 = 56.3%

Maximum value of SAR (measured) = 2.21 W/kg

Zoom Scan (7x7x12)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.7070 V/m; Power Drift = -0.05 dB

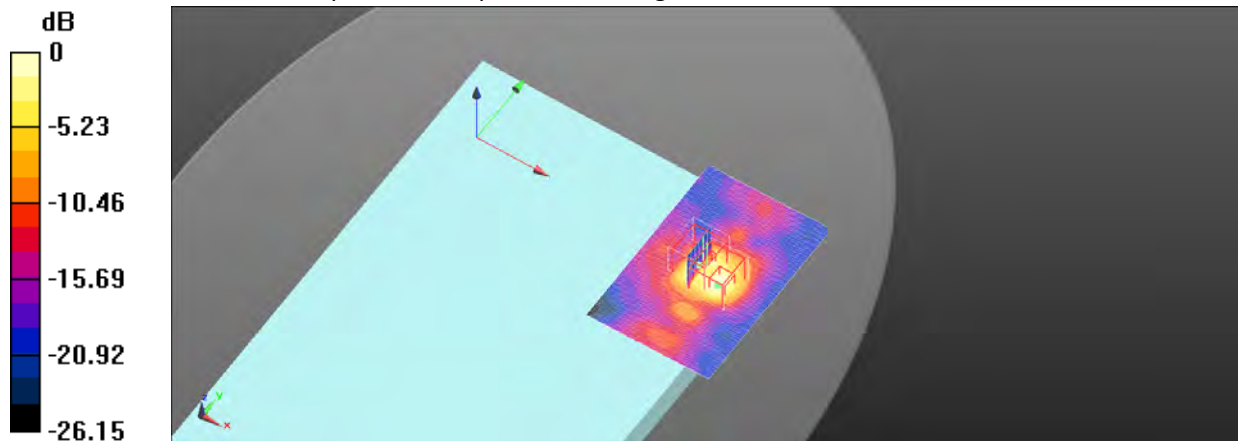
Peak SAR (extrapolated) = 4.28 W/kg

SAR(1 g) = 0.882 W/kg; SAR(10 g) = 0.282 W/kg

Smallest distance from peaks to all points 3 dB below = 6.3 mm

Ratio of SAR at M2 to SAR at M1 = 57.2%

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



0 dB = 2.21 W/kg = 3.44 dBW/kg

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Date: 2022/3/31

Report No. : E5/2022/30001

WLAN 802.11ac(160M) 5.6G_Body_Back Surface_CH 114_0mm_Aux

Communication System: WLAN; Frequency: 5570 MHz; Duty Cycle: 1:1.018

Medium parameters used: $f = 5570 \text{ MHz}$; $\sigma = 5.029 \text{ S/m}$; $\epsilon_r = 35.552$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(4.6, 4.6, 4.6); Calibrated: 2022/1/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2021/4/9
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

Area Scan (81x121x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 2.35 W/kg

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

Reference Value = 1.144 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 4.83 W/kg

SAR(1 g) = 1.11 W/kg; SAR(10 g) = 0.373 W/kg

Smallest distance from peaks to all points 3 dB below = 8.4 mm

Ratio of SAR at M2 to SAR at M1 = 56.7%

Maximum value of SAR (measured) = 2.31 W/kg

Zoom Scan (7x7x12)/Cube 1: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 1.144 V/m; Power Drift = 0.01 dB

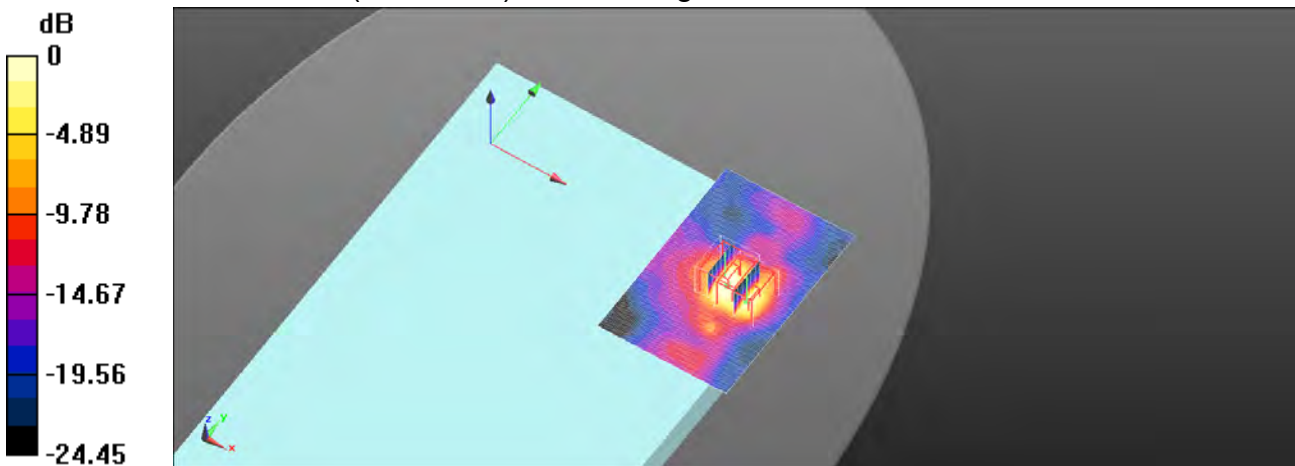
Peak SAR (extrapolated) = 5.03 W/kg

SAR(1 g) = 1.05 W/kg; SAR(10 g) = 0.305 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 51.3%

Maximum value of SAR (measured) = 2.20 W/kg



0 dB = 2.31 W/kg = 3.64 dBW/kg

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Date: 2022/4/1

Report No. : E5/2022/30001

WLAN 802.11n(40M) 5.8G_Body_Back Surface_CH 151_0mm_Aux

Communication System: WLAN; Frequency: 5755 MHz; Duty Cycle: 1:1.038

Medium parameters used: $f = 5755 \text{ MHz}$; $\sigma = 5.218 \text{ S/m}$; $\epsilon_r = 35.341$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(4.65, 4.65, 4.65); Calibrated: 2022/1/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2021/4/9
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

Area Scan (81x121x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 2.65 W/kg

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

Reference Value = 1.272 V/m; Power Drift = 0.05 dB

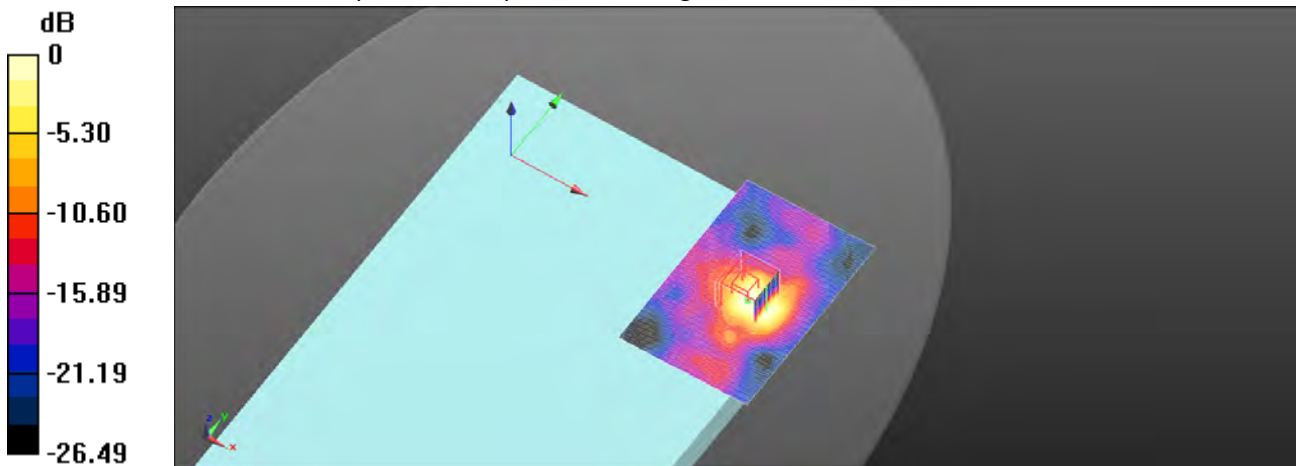
Peak SAR (extrapolated) = 6.70 W/kg

SAR(1 g) = 1.12 W/kg; SAR(10 g) = 0.424 W/kg

Smallest distance from peaks to all points 3 dB below = 7.3 mm

Ratio of SAR at M2 to SAR at M1 = 50.6%

Maximum value of SAR (measured) = 2.90 W/kg



0 dB = 2.90 W/kg = 4.63 dBW/kg

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Date: 2022/4/1

Report No. : E5/2022/30001

WLAN 802.11ac(80M) 5.8G_Body_Back Surface_CH 155_0mm_Aux

Communication System: WLAN; Frequency: 5775 MHz; Duty Cycle: 1:1.078

Medium parameters used: $f = 5775 \text{ MHz}$; $\sigma = 5.238 \text{ S/m}$; $\epsilon_r = 35.318$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(4.65, 4.65, 4.65); Calibrated: 2022/1/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2021/4/9
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

Area Scan (81x121x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 2.36 W/kg

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

Reference Value = 1.155 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 5.80 W/kg

SAR(1 g) = 1.08 W/kg; SAR(10 g) = 0.366 W/kg

Smallest distance from peaks to all points 3 dB below = 9.9 mm

Ratio of SAR at M2 to SAR at M1 = 59.5%

Maximum value of SAR (measured) = 2.49 W/kg

Zoom Scan (7x7x12)/Cube 1: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 1.155 V/m; Power Drift = 0.01 dB

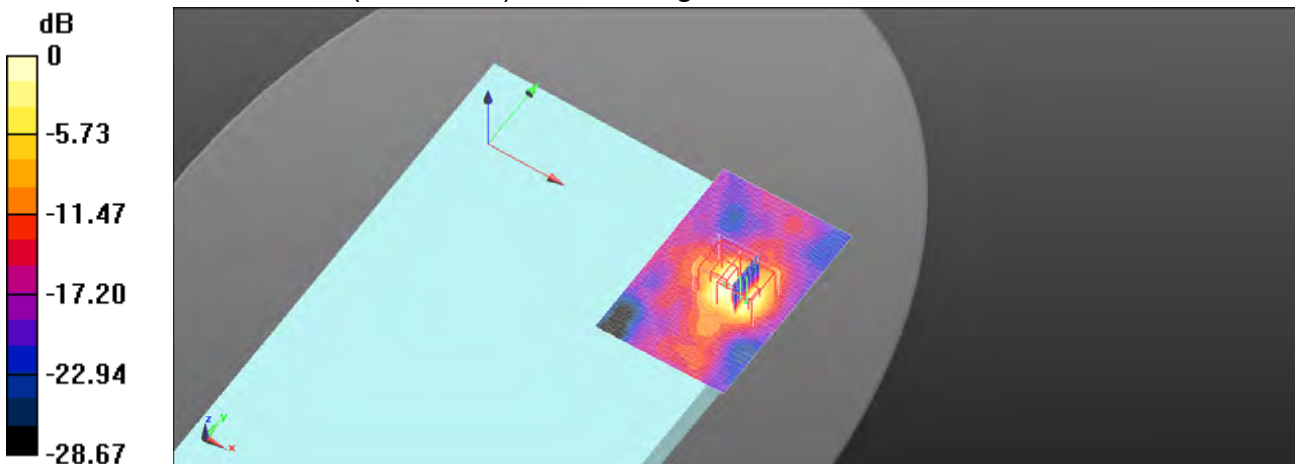
Peak SAR (extrapolated) = 5.95 W/kg

SAR(1 g) = 1.02 W/kg; SAR(10 g) = 0.298 W/kg

Smallest distance from peaks to all points 3 dB below = 9.4 mm

Ratio of SAR at M2 to SAR at M1 = 53.6%

Maximum value of SAR (measured) = 2.46 W/kg



0 dB = 2.49 W/kg = 3.96 dBW/kg

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6. SAR System Performance Verification

Date: 2022/3/27

Report No. : E5/2022/30001

Dipole 2450 MHz_SN:727

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

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.807$ S/m; $\epsilon_r = 39.189$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 23°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(7.39, 7.39, 7.39); Calibrated: 2022/1/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2021/4/9
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

Area Scan (51x71x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 14.0 W/kg

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

Reference Value = 84.37 V/m; Power Drift = -0.01 dB

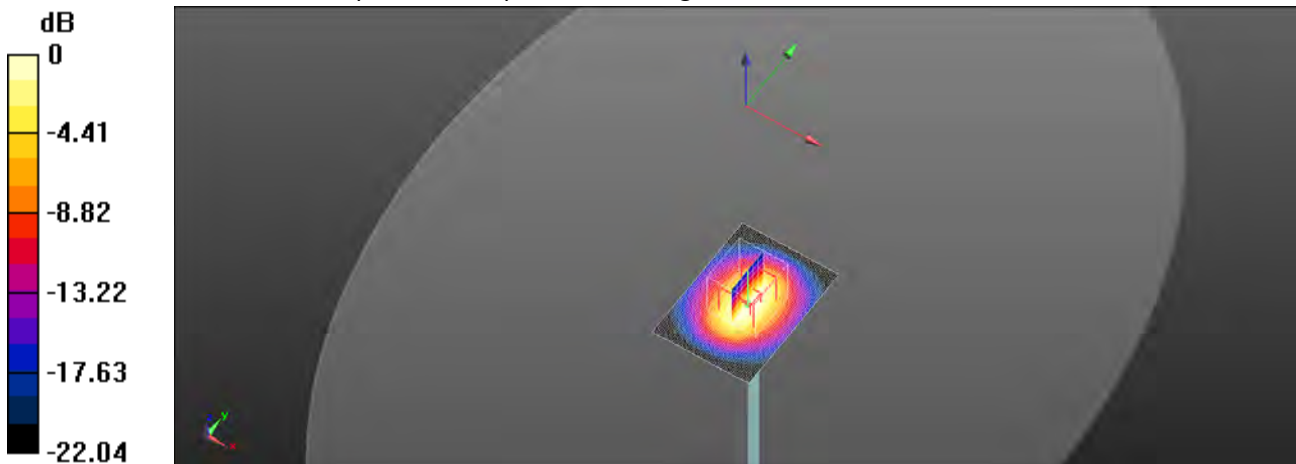
Peak SAR (extrapolated) = 17.3 W/kg

SAR(1 g) = 13.33 W/kg; SAR(10 g) = 6.19 W/kg

Smallest distance from peaks to all points 3 dB below = 9.3 mm

Ratio of SAR at M2 to SAR at M1 = 58.3%

Maximum value of SAR (measured) = 12.8 W/kg



0 dB = 12.8 W/kg = 11.07 dBW/kg

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Date: 2022/3/28

Report No. : E5/2022/30001

Dipole 5250 MHz_SN:1023

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

Medium parameters used: $f = 5250 \text{ MHz}$; $\sigma = 4.7 \text{ S/m}$; $\epsilon_r = 35.918$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.8°C; Liquid temperature: 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(5.05, 5.05, 5.05); Calibrated: 2022/1/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2021/4/9
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

Area Scan (61x81x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 16.4 W/kg

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

Reference Value = 64.26 V/m; Power Drift = -0.04 dB

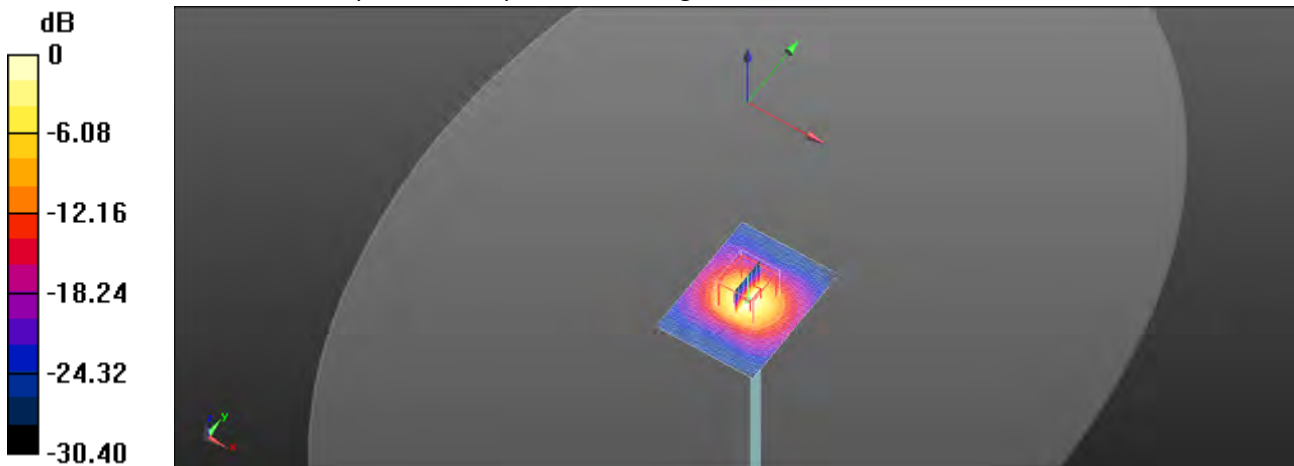
Peak SAR (extrapolated) = 33.5 W/kg

SAR(1 g) = 7.73 W/kg; SAR(10 g) = 2.21 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 52.9%

Maximum value of SAR (measured) = 16.3 W/kg



0 dB = 16.3 W/kg = 12.12 dBW/kg

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Date: 2022/3/29

Report No. : E5/2022/30001

Dipole 5250 MHz_SN:1023

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

Medium parameters used: $f = 5250 \text{ MHz}$; $\sigma = 4.767 \text{ S/m}$; $\epsilon_r = 36.442$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.6°C ; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(5.05, 5.05, 5.05); Calibrated: 2022/1/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2021/4/9
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

Area Scan (61x81x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 17.4 W/kg

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

Reference Value = 66.63 V/m ; Power Drift = -0.04 dB

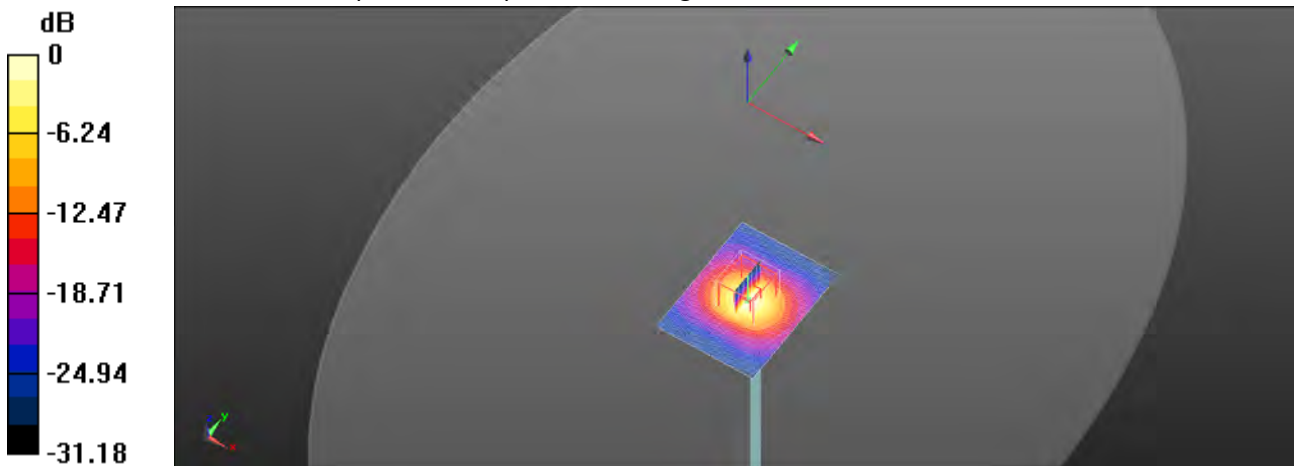
Peak SAR (extrapolated) = 36.2 W/kg

SAR(1 g) = 7.86 W/kg ; SAR(10 g) = 2.25 W/kg

Smallest distance from peaks to all points 3 dB below = 8.7 mm

Ratio of SAR at M2 to SAR at M1 = 56.7%

Maximum value of SAR (measured) = 17.5 W/kg



0 dB = $17.5 \text{ W/kg} = 12.43 \text{ dBW/kg}$

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Date: 2022/3/30

Report No. : E5/2022/30001

Dipole 5250 MHz_SN:1023

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

Medium parameters used: $f = 5250 \text{ MHz}$; $\sigma = 4.796 \text{ S/m}$; $\epsilon_r = 36.671$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C ; Liquid temperature: 21.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(5.05, 5.05, 5.05); Calibrated: 2022/1/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2021/4/9
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

Area Scan (61x81x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 14.9 W/kg

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

Reference Value = 68.68 V/m ; Power Drift = -0.06 dB

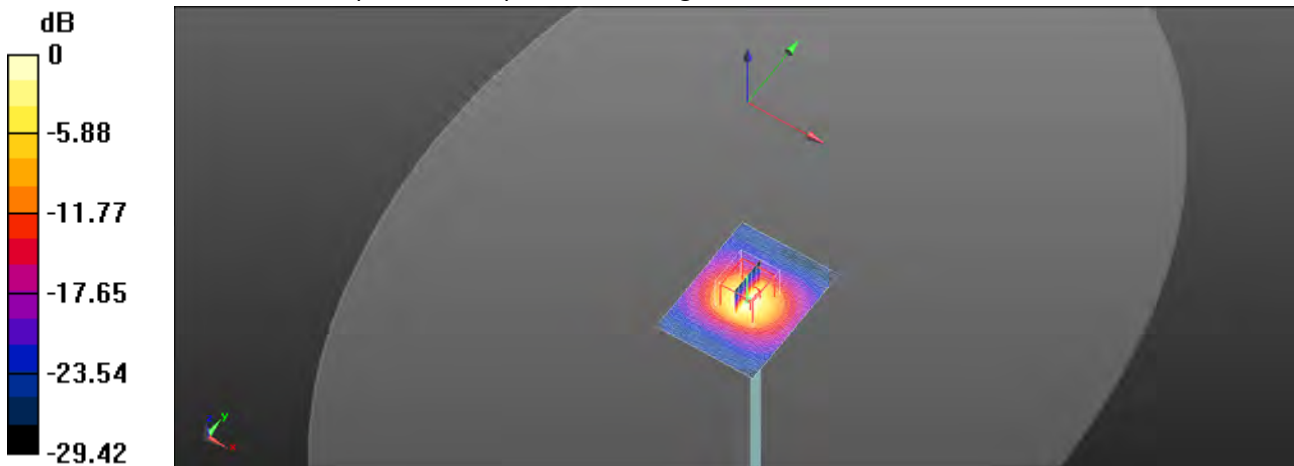
Peak SAR (extrapolated) = 30.8 W/kg

SAR(1 g) = 8.02 W/kg ; SAR(10 g) = 2.29 W/kg

Smallest distance from peaks to all points 3 dB below = 8.2 mm

Ratio of SAR at M2 to SAR at M1 = 52.6%

Maximum value of SAR (measured) = 15.0 W/kg



0 dB = $15.0 \text{ W/kg} = 11.75 \text{ dBW/kg}$

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Date: 2022/3/31

Report No. : E5/2022/30001

Dipole 5600 MHz_SN:1023

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

Medium parameters used: $f = 5600$ MHz; $\sigma = 5.06$ S/m; $\epsilon_r = 35.518$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.7°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(4.6, 4.6, 4.6); Calibrated: 2022/1/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2021/4/9
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

Area Scan (61x81x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 18.3 W/kg

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

Reference Value = 64.78 V/m; Power Drift = -0.04 dB

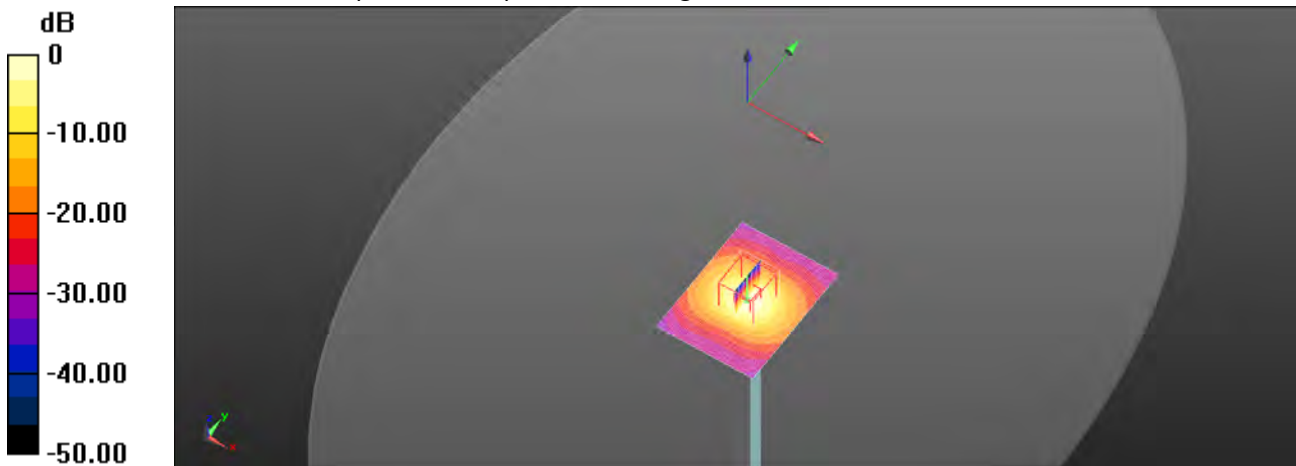
Peak SAR (extrapolated) = 41.5 W/kg

SAR(1 g) = 8.54 W/kg; SAR(10 g) = 2.41 W/kg

Smallest distance from peaks to all points 3 dB below = 9 mm

Ratio of SAR at M2 to SAR at M1 = 58.1%

Maximum value of SAR (measured) = 18.2 W/kg



0 dB = 18.2 W/kg = 12.60 dBW/kg

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Member of SGS Group

Date: 2022/4/1

Report No. : E5/2022/30001

Dipole 5750 MHz_SN:1023

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

Medium parameters used: $f = 5750 \text{ MHz}$; $\sigma = 5.213 \text{ S/m}$; $\epsilon_r = 35.346$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(4.65, 4.65, 4.65); Calibrated: 2022/1/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2021/4/9
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

Area Scan (61x81x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 17.2 W/kg

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

Reference Value = 62.15 V/m; Power Drift = -0.01 dB

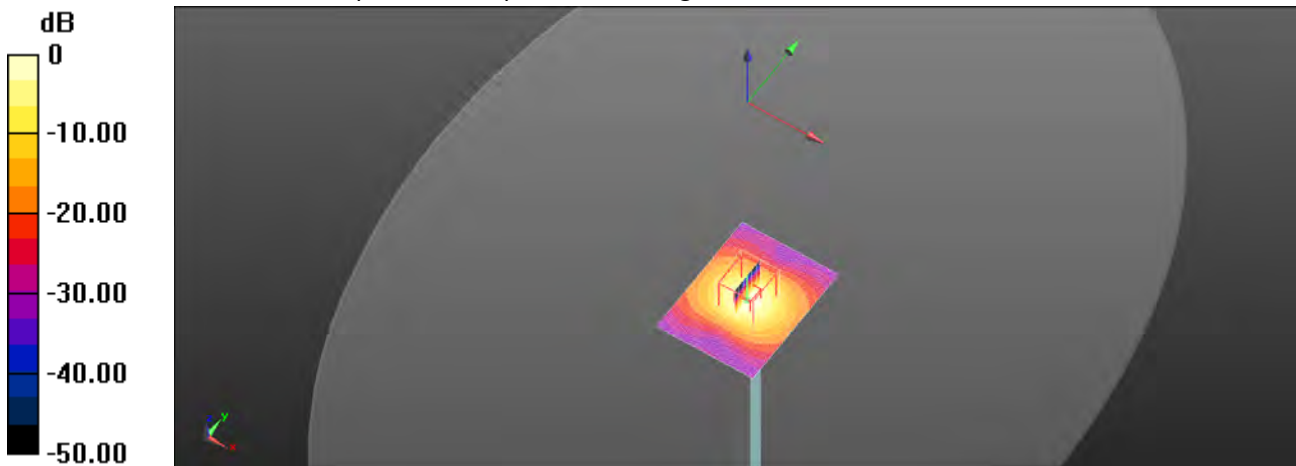
Peak SAR (extrapolated) = 40.7 W/kg

SAR(1 g) = 7.95 W/kg; SAR(10 g) = 2.24 W/kg

Smallest distance from peaks to all points 3 dB below = 7.8 mm

Ratio of SAR at M2 to SAR at M1 = 56.9%

Maximum value of SAR (measured) = 17.3 W/kg



0 dB = 17.3 W/kg = 12.37 dBW/kg

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7. Uncertainty Budget

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

A	c	D	e		f	g	h=c * f / e	i=c * g / e	k
Source of Uncertainty	Tolerance/ Uncertainty	Probability Distributio	Div	Div Value	ci (1g)	ci (10g)	Standard uncertainty	Standard uncertainty	vi, or Veff
Measurement system									
Probe calibration	6.55%	N	1	1	1	1	6.55%	6.55%	∞
<i>Isotropy, Axial</i>	3.50%	R	√3	1.732	1	1	2.02%	2.02%	∞
<i>Isotropy, Hemispherical</i>	9.60%	R	√3	1.732	1	1	5.54%	5.54%	∞
Modulation Response	2.40%	R	√3	1.732	1	1	1.40%	1.40%	∞
Boundary Effect	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Linearity	4.70%	R	√3	1.732	1	1	2.71%	2.71%	∞
Detection Limits	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Readout Electronics	0.30%	N	1	1	1	1	0.30%	0.30%	∞
Response time	0.80%	R	√3	1.732	1	1	0.46%	0.46%	∞
Integration Time	2.60%	R	√3	1.732	1	1	1.50%	1.50%	∞
Measurement drift (class A evaluation)	1.75%	R	√3	1.732	1	1	1.01%	1.01%	∞
RF ambient condition - noise	3.00%	R	√3	1.732	1	1	1.73%	1.73%	∞
RF ambient conditions - reflections	3.00%	R	√3	1.732	1	1	1.73%	1.73%	∞
Probe positioner Mechanical restrictions	0.40%	R	√3	1.732	1	1	0.23%	0.23%	∞
Probe Positioning with respect to phantom shell	2.90%	R	√3	1.732	1	1	1.67%	1.67%	∞
Post-processing	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Max SAR Eval	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Test Sample related									
Test sample positioning	2.90%	N	1	1	1	1	2.90%	2.90%	M-1
Device Holder Uncertainty	3.60%	N	1	1	1	1	3.60%	3.60%	M-1
Drift of output power	5.00%	R	√3	1.732	1	1	2.89%	2.89%	∞
Phantom and Setup									
Phantom Uncertainty	4.00%	R	√3	1.732	1	1	2.31%	2.31%	∞
Liquid permittivity (mea.)	2.01%	N	1	1	0.64	0.43	1.29%	0.86%	M
Liquid Conductivity (mea.)	1.91%	N	1	1	0.6	0.49	1.15%	0.94%	M
Combined standard uncertainty		RSS					11.84%	11.78%	
Expant uncertainty (95% confidence interval), K=2							23.68%	23.55%	

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

A	c	D	e		f	g	h=c * f / e	i=c * g / e	k
Source of Uncertainty	Tolerance/ Uncertainty	Probability Distributio	Div	Div Value	ci (1g)	ci (10g)	Standard uncertainty	Standard uncertainty	vi, or Veff
Measurement system									
Probe calibration	6.00%	N	1	1	1	1	6.00%	6.00%	∞
<i>Isotropy, Axial</i>	3.50%	R	√3	1.732	1	1	2.02%	2.02%	∞
<i>Isotropy, Hemispherical</i>	9.60%	R	√3	1.732	1	1	5.54%	5.54%	∞
Modulation Response	2.40%	R	√3	1.732	1	1	1.40%	1.40%	∞
Boundary Effect	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Linearity	4.70%	R	√3	1.732	1	1	2.71%	2.71%	∞
Detection Limits	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Readout Electronics	0.30%	N	1	1	1	1	0.30%	0.30%	∞
Response time	0.80%	R	√3	1.732	1	1	0.46%	0.46%	∞
Integration Time	2.60%	R	√3	1.732	1	1	1.50%	1.50%	∞
Measurement drift (class A evaluation)									
RF ambient condition - noise	3.00%	R	√3	1.732	1	1	1.73%	1.73%	∞
RF ambient conditions - reflections	3.00%	R	√3	1.732	1	1	1.73%	1.73%	∞
Probe positioner Mechanical restrictions	0.40%	R	√3	1.732	1	1	0.23%	0.23%	∞
Probe Positioning with respect to phantom shell	2.90%	R	√3	1.732	1	1	1.67%	1.67%	∞
Post-processing	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Max SAR Eval	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Test Sample related									
Test sample positioning	2.90%	N	1	1	1	1	2.90%	2.90%	M-1
Device Holder Uncertainty	3.60%	N	1	1	1	1	3.60%	3.60%	M-1
Drift of output power	5.00%	R	√3	1.732	1	1	2.89%	2.89%	∞
Phantom and Setup									
Phantom Uncertainty	4.00%	R	√3	1.732	1	1	2.31%	2.31%	∞
Liquid permittivity (mea.)	0.03%	N	1	1	0.64	0.43	0.02%	0.01%	M
Liquid Conductivity (mea.)	0.47%	N	1	1	0.6	0.49	0.28%	0.23%	M
Combined standard uncertainty		RSS					11.42%	11.41%	
Expant uncertainty (95% confidence interval), K=2							22.84%	22.82%	

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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Appendixes

Refer to separated files for the following appendixes.

E52022130001 SAR_Appendix A Photographs

E52022130001 SAR_Appendix B DAE & Probe Cal. Certificate

E52022130001 SAR_Appendix C Phantom Description & Dipole Cal. Certificate

- End of report -

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