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SAR TEST REPORT





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

Product Name Notebook Computer

Brand Name HP

Model No. HSN-I54C
Applicant HP Inc.

1501 Page Mill Road, Palo Alto, CA 94304, USA

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

FCC ID B94-RTL8852BER

Date of Receipt Dec. 13, 2021

Date of Test(s) Mar. 09, 2022 ~ Mar. 11, 2022

Date of Issue Mar. 14, 2022

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

Remarks:

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

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Signed on behalf of SGS

Clerk / Kimmy Chiou	PM / Jasper Wang	Approved By / John Yeh
Kimmy Chiou	Jasper Wang	John Teh
		Date: Mar. 14, 2022

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
EN/2022/30006	Rev.00	Initial creation of document	Mar. 14, 2022	Kimmy Chiou	

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1	The mark " *	" is the revi	ised version	of the re	enort due to	comments	submitted by	the certification.
1.	HILDHIAIK	13 1110 101	1364 76131011	01 1110 10	sport due to	COMMENTS	Submitted by	une ceruncauon.

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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						
1F,A No. 8, Alley 15, Lane 120, Sec. 1, NeiHu Road, Neihu District, Taipei City,						
11493, Taiwan.						
FCC Designation	TW0029					
Number	17770029					
Tel	+886-2-2299-3279					
Fax	+886-2-2298-0488					
Internet	http://www.tw.sgs.com/					

1.2 Details of Applicant

Company Name	HP Inc.
Company Address	1501 Page Mill Road, Palo Alto, CA 94304, USA

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1.3 Description of EUT

General Information of Host:

General information of riost.						
Equipment Under Test	Notebook Comput	er				
Brand Name	HP					
Model No.	HSN-I54C	HSN-I54C				
Integrated Module	Brand Name: REALTEK					
	Model Name: RTL	8852BE				
FCC ID	B94-RTL8852BER					
Mode of Operation	⊠WLAN802.11 ⊠Bluetooth					
Durby Cycele	WLAN802.11	Refer to page 31~32				
Duty Cycle	Bluetooth	88.5%				
	WLAN (2.4GHz)	2.412 ~ 2.472 GHz				
Operating Frequency	WLAN (5GHz) 5.18 ~ 5.32 GHz, 5.50 ~ 5.72 GHz 5.745 ~ 5.825 GHz					
	BT-EDR & BT-LE	2.402 ~ 2.480 GHz				

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f (886-2) 2298-0488



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HONG-BO

Max. SAR (1g) (Unit: W/Kg)								
Antenna	Band	Measured	Reported	Channel	Position			
	WLAN 802.11b	0.54	0.56	11	Top Edge			
	Bluetooth(GFSK)	0.02	0.03	78	Top Edge			
Tv 1	WLAN 802.11n(40M) 5.2G	0.52	0.55	46	Top Edge			
Tx 1	WLAN 802.11ac(80M) 5.3G	0.54	0.56	58	Top Edge			
	WLAN 802.11ac(80M) 5.6G	0.81	0.85	138	Top Edge			
	WLAN 802.11ac(80M) 5.8G	0.98	1.02	155	Top Edge			
	WLAN 802.11b	0.75	0.77	11	Top Edge			
	WLAN 802.11n(40M) 5.2G	0.74	0.77	38	Top Edge			
Tx 2	WLAN 802.11ac(80M) 5.3G	0.83	0.87	58	Top Edge			
	WLAN 802.11ac(80M) 5.6G	0.86	0.90	138	Top Edge			
	WLAN 802.11ac(80M) 5.8G	0.75	0.78	155	Top Edge			

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WNC

	Max	. SAR (1g) (Unit: W	//Kg)		
Antenna	Band	Measured	Reported	Channel	Position
	WLAN 802.11b	0.84	0.86	6	Top Edge
	Bluetooth(GFSK)	0.03	0.04	78	Top Edge
Tv 4	WLAN 802.11n(40M) 5.2G	0.40	0.42	46	Top Edge
Tx 1	WLAN 802.11ac(80M) 5.3G	0.45	0.46	58	Top Edge
	WLAN 802.11ac(80M) 5.6G	0.47	0.49	138	Top Edge
	WLAN 802.11ac(80M) 5.8G	0.41	0.42	155	Top Edge
	WLAN 802.11b	0.37	0.38	11	Top Edge
	WLAN 802.11n(40M) 5.2G	0.52	0.54	38	Top Edge
Tx 2	WLAN 802.11ac(80M) 5.3G	0.50	0.52	58	Top Edge
	WLAN 802.11ac(80M) 5.6G	0.82	0.86	138	Top Edge
	WLAN 802.11ac(80M) 5.8G	1.07	1.12	155	Top Edge

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Antenna Information:

WLAN

Laptop mode WLAN

Eaploy mode_WEAN										
Vendor		НВ								
Antenna		Tx1				T:	x2			
Part Number	60	6036B0319601(00-2602752150)			60	36B0319701(00-260275225	50)		
Frequency(MHz)	2400~2500 5150~5350 5470~5725 5725~5850 2400~2500 5150~5350 5			5470~5725	5725~5850					
Gain (dBi)	0.35	-2.07	0.43	1.88	0.26	0.39	1.04	0.33		

Laptop mode_WLAN

Vendor	WNC									
Antenna	Tx1					T:	x2			
Part Number	6036B0319801(81EABL15.G64)			60	36B0319901(81EABL15.G6	35)			
Frequency(MHz)	2400~2500	5150~5350	5470~5725	5725~5850	2400~2500	5150~5350	5470~5725	5725~5850		
Gain (dBi)	-2.64	-1.57	-0.52	-0.49	-1.5	-1.52	1.56	1.56		

Tablet mode_WLAN

Vendor		НВ								
Antenna		Tx1 Tx2				x2				
Part Number	6036B0319601(00-2602752150)			6036B0319701(00-2602752250)						
Frequency(MHz)	2400~2500	5150~5350	5470~5725	5725~5850	2400~2500	5150~5350	5470~5725	5725~5850		
Gain (dBi)	-1.05	0.46	0.91	1.28	-0.98	2.15	1.92	0.91		

Tablet mode, WI AN

Tablet Mode_WEAT										
Vendor		WNC								
Antenna		T:	x1		Tx2					
Part Number	60)36B0319801(B0319801(81EABL15.G64)			6036B0319901(81EABL15.G65)				
Frequency(MHz)	2400~2500	5150~5350	5470~5725	5725~5850	2400~2500	5150~5350	5470~5725	5725~5850		
Gain (dBi)	-2.48	-0.42	0.24	-0.16	-1.56	-0.21	1.21	1.21		

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WLAN conducted power table:

Notebook Mode

			Tx1			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		1	2412		21.00	20.97
	802.11b	6	2437	1Mbps	21.00	20.93
		11	2462		21.00	20.95
		1	2412		20.50 6Mbps 21.00	20.34
	802.11g	6	2437	6Mbps		20.82
		11	2462		19.50	19.41
		1	2412		20.50	20.41
	802.11n20-HT0	6	2437	MCS0	21.00	20.88
		11	2462		19.50	19.39
		1	2412	MCS0	20.50	20.35
	802.11ac20-VHT0	6	2437		21.00	20.92
2.45GHz		11	2462		19.50	19.39
2.430112		1	2412		20.50	20.44
	802.11ax20-HE0	6	2437	MCS0	21.00	20.86
		11	2462		19.50	19.35
		3	2422		19.00	18.93
	802.11n40-HT0	6	2437	MCS0	19.50	19.44
		9	2452		18.50	18.32
		3	2422		19.00	18.95
	802.11ac40-VHT0	6	2437	MCS0	19.50	19.33
		9	2452]	18.50	18.36
		3	2422		19.00	18.85
	802.11ax40-HE0	6	2437	MCS0	19.50	19.44
		9	2452]	18.50	18.42

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			Tx1			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		36	5180		21.00	20.92
	802.11a	40	5200	GMbpa	21.00	20.89
	802.11a	44	5220	6Mbps	21.00	20.88
		48	5240		21.00	20.95
		36	5180		21.00	20.82
	802.11n20-HT0	40	5200	MCS0	21.00	20.96
		44	5220	IVICSU	21.00	20.89
		48	5240		21.00	20.88
		36	5180		21.00	20.86
	802.11ac20-VHT0	40	5200	MCS0	21.00	20.96
		44	5220	IVICSU	21.00	20.90
5.15-5.25 GHz		48	5240		21.00	20.92
5.15-5.25 GHZ		36	5180		21.00	20.83
	802.11ax20-HE0	40	5200	MCS0	21.00	20.87
	002.11ax20-11E0	44	5220	IVICSU	21.00	20.94
		48	5240		21.00	20.91
	802.11n40-HT0	38	5190	MCS0	18.00	17.95
	ου2. i iii 4 0-Π10	46	5230	IVICSU	21.00	20.98
	802.11ac40-VHT0	38	5190	MCS0	18.00	17.96
	002.11d040-V1110	46	5230	IVICOU	21.00	20.94
	802.11ax40-HE0	38	5190	MCS0	18.00	17.84
	002.11ax40-NEU	46	5230	IVICOU	21.00	20.91
	802.11ac80-VHT0	42	5210	MCS0	17.50	17.36
	802.11ax80-HE0	42	5210	MCS0	17.50	17.43

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			Tx1			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		52	5260		21.00	20.85
	000 44-	56	5280	CN //s rs s	21.00	20.82
	802.11a	60	5300	6Mbps	21.00	20.95
		64	5320	1	21.00	20.94
		52	5260		21.00	20.84
	802.11n20-HT0	56	5280	1	21.00	20.92
		60	5300	MCS0	21.00	20.84
		64	5320	1	21.00	20.83
		52	5260		21.00	20.94
	802.11ac20-VHT0	56	5280	1	21.00	20.82
		60	5300	MCS0	21.00	20.88
5 05 5 05 OLL		64	5320	1	21.00	20.95
5.25-5.35 GHz		52	5260		21.00	20.90
	000 44 00 1 150	56	5280	MOCO	21.00	20.91
	802.11ax20-HE0	60	5300	MCS0	21.00	20.87
		64	5320	1	21.00	20.88
	000 44 = 40 LITO	54	5270	MCCO	21.00	20.98
	802.11n40-HT0	62	5310	MCS0	18.00	17.94
	000 1100 10 \/ ITO	54	5270	MCS0	21.00	20.84
	802.11ac40-VHT0	62	5310	IVICSU	18.00	17.85
	000 11av 10 LIFO	54	5270	MCS0	21.00	20.96
	802.11ax40-HE0	62	5310	IVICSU	18.00	17.94
	802.11ac80-VHT0	58	5290	MCS0	18.00	17.83
	802.11ax80-HE0	58	5290	MCS0	18.00	17.86

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			Tx1			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		100	5500		20.00	19.91
	802.11a	120	5600	CMb no	21.00	20.86
	802.11a	140	5700	- 6Mbps	19.00	18.91
		144	5720		21.00 19.00 21.00 20.00 21.00 19.00 21.00 21.00 20.00 21.00 19.00 21.00 21.00 21.00 19.00 21.00 21.00 21.00 21.00 21.00 19.00 21.00 17.50 21.00 20.50 21.00 17.50	20.86
		100	5500		20.00	19.94
	000 44×00 LITO	120	5600	MCS0	21.00	20.85
	802.11n20-HT0	140	5700	IVICSU	19.00	18.94
		144	5720		21.00	20.96
		100	5500		20.00	19.85
	000 44 00 \/LITO	120	5600	MCS0	21.00	20.90
	802.11ac20-VHT0	140	5700		19.00	18.91
		144	5720		21.00	20.84
		100	5500		20.00	19.92
	000 44 av 20 LIE0	120	5600	MCS0	21.00	20.91
	802.11ax20-HE0	140	5700	IVICSU	19.00	18.85
		144	5720		21.00	20.94
5.6GHz		102	5510		17.50	17.46
3.0GHZ	802.11n40-HT0	118	5590	MCS0	21.00	20.89
	802.111140-1110	134	5670	IVICSU	20.50	20.45
		142	5710		21.00	20.97
		102	5510		17.50	17.33
	000 44cc40 \/LITO	118	5590	MCCO	21.00	20.85
	802.11ac40-VHT0	134	5670	MCS0	20.50	20.38
		142	5710		21.00	20.89
		102	5510		17.50	17.37
	802.11ax40-HE0	118	5590	MCS0	21.00	20.83
	002.118X4U-FEU	134	5670	IVICSU	20.50	20.33
		142	5710	<u> </u>	21.00	20.95
		106	5530		17.00	16.88
	802.11ac80-VHT0	122	5610	MCS0	20.00	19.90
		138	5690]	20.00	19.88
		106	5530		17.00	16.82
	802.11ax80-HE0	122	5610	MCS0	20.00	19.94
		138	5690	<u> </u>	20.00	19.89

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No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號

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			Tx1			
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		149	5745		21.00	20.91
	802.11a	157	5785	6Mbps	21.00	20.83
		165	5825	1	21.00	20.91
		149	5745		21.00	20.84
	802.11n20-HT0	157	5785	MCS0	21.00	20.92
		165	5825		21.00	20.84
		149	5745		21.00	20.90
	802.11ac20-VHT0	157	5785	MCS0	21.00	20.87
		165	5825		21.00	20.85
5.8GHz		149	5745		21.00	20.83
3.0GHZ	802.11ax20-HE0	157	5785	MCS0	21.00	20.86
		165	5825		21.00	20.96
	802.11n40-HT0	151	5755	MCS0	21.00	20.92
	002.1 Π 14 0 - Π10	159	5795	IVICOU	21.00	20.97
	802.11ac40-VHT0	151	5755	MCS0	21.00	20.89
	002.11aC40-VH10	159	5795	IVICSU	21.00	20.83
	802.11ax40-HE0	151	5755	MCS0	21.00	20.95
	002.11ax40-HEU	159	5795	IVICOU	21.00	20.91
	802.11ac80-VHT0	155	5775	MCS0	20.00	19.93
İ	802.11ax80-HE0	155	5775	MCS0	20.00	19.84

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			Tx 2			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		1	2412		21.00	20.94
	802.11b	6	2437	1Mbps	21.00	20.96
		11	2462		21.00	20.92
		1	2412		20.50	20.45
	802.11g	6	2437	6Mbps	21.00	20.83
		11	2462		19.50	19.43
	802.11n20-HT0	1	2412		20.50	20.41
		6	2437	MCS0	21.00	20.92
		11	2462		19.50	19.44
		1	2412	MCS0	20.50	20.45
	802.11ac20-VHT0	6	2437		21.00	20.89
2.45GHz		11	2462		19.50	19.43
2.43GHZ		1	2412		20.50	20.38
	802.11ax20-HE0	6	2437	MCS0	21.00	20.92
		11	2462		19.50	19.35
		3	2422		19.00	18.96
	802.11n40-HT0	6	2437	MCS0	19.50	19.34
		9	2452	1	18.50	18.43
		3	2422		19.00	18.96
	802.11ac40-VHT0	6	2437	MCS0	19.50	19.33
		9	2452]	18.50	18.39
		3	2422		19.00	18.82
	802.11ax40-HE0	6	2437	MCS0	19.50	19.38
		9	2452	<u>1</u>	18.50	18.36

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			Tx 2			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		36	5180		21.00	20.91
	000 110	40	5200	CMb no	21.00	20.89
	802.11a	44	5220	6Mbps	21.00	20.87
		48	5240		21.00	20.86
		36	5180		21.00	20.91
	802.11n20-HT0	40	5200	MCS0	21.00	20.94
		44	5220	IVICSU	21.00	20.95
		48	5240		21.00	20.82
		36	5180		21.00	20.83
	802.11ac20-VHT0	40	5200	MCS0	21.00	20.94
		44	5220	IVICSU	21.00	20.89
5.15-5.25 GHz		48	5240		21.00	20.91
5.15-5.25 GHZ		36	5180		21.00	20.86
	802.11ax20-HE0	40	5200	MCS0	21.00	20.89
	802.11ax20-mE0	44	5220	IVICSU	21.00	20.89
		48	5240		21.00	20.87
	000 11 × 10 LITO	38	5190	MCS0	18.00	17.91
	802.11n40-HT0	46	5230	IVICSU	21.00	20.96
	902 110040 \/LITO	38	5190	MCS0	18.00	17.95
	802.11ac40-VHT0	46	5230	IVICSU	21.00	20.90
	802.11ax40-HE0	38	5190	MCS0	18.00	17.85
	002.118X40-MEU	46	5230	IVICSU	21.00	20.93
	802.11ac80-VHT0	42	5210	MCS0	17.50	17.36
	802.11ax80-HE0	42	5210	MCS0	17.50	17.45

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			Tx 2			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		52	5260		21.00	20.94
	802.11a	56	5280	GMbpa	21.00	20.84
	002.11a	60	5300	6Mbps	21.00	20.88
		64	5320		21.00	20.92
	802.11n20-HT0	52	5260		21.00	20.86
		56	5280	MCS0	21.00	20.94
		60	5300	IVICSU	21.00	20.91
		64	5320		21.00	20.92
		52	5260		21.00	20.84
	802.11ac20-VHT0	56	5280	MCS0	21.00	20.89
		60	5300	- 10030	21.00	20.92
5.25-5.35 GHz		64	5320		21.00	20.89
5.25-5.35 GHZ		52	5260		21.00	20.92
	802.11ax20-HE0	56	5280	MCS0	21.00	20.89
	002.11dx20-FIEU	60	5300	IVICSU	21.00	20.84
		64	5320		21.00	20.88
	802.11n40-HT0	54	5270	MCS0	21.00	20.97
	002.111140-1110	62	5310	IVICSU	18.00	17.92
	802.11ac40-VHT0	54	5270	MCS0	21.00	20.82
	002.11ac40=VI110	62	5310	IVICSU	18.00	17.82
	802.11ax40-HE0	54	5270	MCS0	21.00	20.84
	002.11dX40-FIEU	62	5310	IVICOU	18.00	17.89
	802.11ac80-VHT0	58	5290	MCS0	18.00	17.86
	802.11ax80-HE0	58	5290	MCS0	18.00	17.83

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			Tx 2			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		100	5500		20.00	19.86
	802.11a	120	5600	6Mbps	21.00	20.96
	002.11a	140	5700	GIVIDPS	19.00	18.88
		144	5720		21.00 19.00 21.00 20.00 21.00 19.00 21.00 21.00 20.00 21.00 19.00 21.00 20.00 21.00 19.00 21.00 19.00 21.00 21.00 21.00 21.00 21.00 21.00 21.00 21.00 21.00 21.00 21.00	20.89
		100	5500		20.00	19.86
	902 11×20 LITO	120	5600	MCS0	21.00	20.85
	802.11n20-HT0	140	5700	IVICSU	19.00	18.87
		144	5720		21.00	20.94
		100	5500		20.00	19.90
	000 44 00 \ // ITO	120	5600	M000	21.00	20.94
	802.11ac20-VHT0	140	5700	MCS0		18.92
		144	5720	1		20.84
		100	5500		20.00	19.96
	000 11 00 1150	120	5600		21.00	20.91
	802.11ax20-HE0	140	5700	MCS0		18.94
		144	5720	1	21.00	20.91
5.0011		102	5510			17.43
5.6GHz	000 44 40 1570	118	5590			20.91
	802.11n40-HT0	134	5670	MCS0	20.50	20.44
		142	5710	1		20.97
		102	5510		17.50	17.38
	000 44 40 1/4/70	118	5590		21.00	20.93
	802.11ac40-VHT0	134	5670	MCS0	20.50	20.39
		142	5710	1	21.00	20.92
		102	5510		17.50	17.40
	000 44 - 40 1/50	118	5590	1 ,,,,,,,,	21.00	20.94
	802.11ax40-HE0	134	5670	MCS0	20.50	20.45
		142	5710	1	21.00	20.96
		106	5530		17.00	16.82
	802.11ac80-VHT0	122	5610	MCS0	20.00	19.84
		138	5690	1	20.00	19.87
		106	5530		17.00	16.86
	802.11ax80-HE0	122	5610	MCS0	20.00	19.89
		138	5690	1	20.00	19.82

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No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號
於分有限公司
t (886-2) 2299-3279
f (886-2) 2298-0488
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			Tx 2			
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		149	5745		21.00	20.93
	802.11a	157	5785	6Mbps	21.00	20.95
		165	5825	1	21.00	20.89
		149	5745		21.00	20.82
	802.11n20-HT0	157	5785	MCS0	21.00	20.88
		165	5825		21.00	20.95
		149	5745		21.00	20.92
	802.11ac20-VHT0	157	5785	MCS0	21.00	20.85
		165	5825		21.00	20.87
5.8GHz		149	5745		21.00	20.94
3.0GHZ	802.11ax20-HE0	157	5785	MCS0	21.00	20.83
		165	5825		21.00	20.85
	802.11n40-HT0	151	5755	MCS0	21.00	20.98
	002.1111 4 0-1110	159	5795	IVICOU	21.00	20.90
	802.11ac40-VHT0	151	5755	MCS0	21.00	20.91
	002.11a040-VF110	159	5795	IVICOU	21.00	20.85
	802.11ax40-HE0	151	5755	MCS0	21.00	20.95
	002.11ax40-HEU	159	5795	IVICSU	21.00	20.84
	802.11ac80-VHT0	155	5775	MCS0	20.00	19.86
	802.11ax80-HE0	155	5775	MCS0	20.00	19.96

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Tablet Mode

	Tx1							
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)		
		1	2412		20.00	19.96		
	802.11b	6	2437	1Mbps	20.00	19.93		
		11	2462		20.00	19.90		
		1	2412		20.00	19.75		
	802.11g	6	2437	6Mbps	20.00	19.85		
		11	2462		19.50	19.34		
		1	2412		20.00	19.93		
	802.11n20-HT0	6	2437	MCS0	20.00	19.92		
		11	2462	1	19.50	19.44		
	802.11ac20-VHT0	1	2412		20.00	19.85		
		6	2437	MCS0	20.00	19.91		
2.45GHz		11	2462		19.50	19.37		
2.45GHZ		1	2412		20.00	19.88		
	802.11ax20-HE0	6	2437	MCS0	20.00	19.82		
		11	2462		19.50	19.39		
		3	2422		19.00	18.77		
	802.11n40-HT0	6	2437	MCS0	19.50	19.29		
		9	2452	1	18.50	18.38		
		3	2422		19.00	18.95		
	802.11ac40-VHT0	6	2437	MCS0	19.50	19.42		
		9	2452	1	18.50	18.41		
		3	2422		19.00	18.96		
	802.11ax40-HE0	6	2437	MCS0	19.50	19.48		
		9	2452	1	18.50	18.31		

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			Tx 1			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		36	5180		18.00	17.80
	802.11a	40	5200	GMbpa	18.00	17.78
	002.11a	44	5220	6Mbps	18.00	17.75
		48	5240		18.00	17.84
		36	5180		18.00	17.81
	802.11n20-HT0	40	5200	MCS0	18.00	17.77
		44	5220	IVICSU	18.00	17.86
		48	5240		18.00	17.87
		36	5180		18.00	17.95
	802.11ac20-VHT0	40	5200	MCS0	18.00	17.91
		44	5220	IVICSO	18.00	17.86
5.15-5.25 GHz		48	5240		18.00	17.79
5. 15-5.25 GHZ		36	5180		18.00	17.82
	802.11ax20-HE0	40	5200	MCS0	18.00	17.80
	002.11ax20-FIEU	44	5220	IVICSU	18.00	17.91
		48	5240		18.00	17.83
	802.11n40-HT0	38	5190	MCS0	18.00	17.92
	002.111140-1110	46	5230	IVICOU	18.00	17.96
	802.11ac40-VHT0	38	5190	MCS0	18.00	17.86
	002.11a040-VF110	46	5230	IVICOU	18.00	17.82
	802.11ax40-HE0	38	5190	MCS0	18.00	17.93
	002.11dX40-NE0	46	5230	IVICSU	18.00	17.90
	802.11ac80-VHT0	42	5210	MCS0	17.50	17.34
	802.11ax80-HE0	42	5210	MCS0	17.50	17.28

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			Tx 1			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		52	5260		18.00	17.88
	802.11a	56	5280	6Mbps	18.00	17.85
	002.11a	60	5300	bivibps	18.00	17.86
		64	5320		18.00	17.88
		52	5260		18.00	17.93
	802.11n20-HT0	56	5280	MCS0	18.00	17.94
		60	5300	IVICSU	18.00	17.83
		64	5320		18.00	17.87
		52	5260		18.00	17.86
	802.11ac20-VHT0	56	5280	MCS0	18.00	17.88
	002.11ac20-VH10	60	5300	IVICSO	18.00	17.85
5.25-5.35 GHz		64	5320		18.00	17.82
3.23-3.33 GHZ		52	5260		18.00	17.79
	802.11ax20-HE0	56	5280	MCS0	18.00	17.94
	002.11ax20-ne0	60	5300	IVICSU	18.00	17.94
		64	5320		18.00	17.82
	802.11n40-HT0	54	5270	MCS0	18.00	17.84
	002.1111 4 0-1110	62	5310	IVICOU	18.00	17.75
	802.11ac40-VHT0	54	5270	MCS0	18.00	17.85
	002.11a040-VH10	62	5310	IVICSU	18.00	17.75
	802.11ax40-HE0	54	5270	MCS0	18.00	17.88
	002.11ax40-HEU	62	5310	IVICOU	18.00	17.83
	802.11ac80-VHT0	58	5290	MCS0	18.00	17.95
	802.11ax80-HE0	58	5290	MCS0	18.00	17.90

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			Tx 1			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		100	5500		18.00	17.87
	802.11a	120	5600	6Mbps	18.00	17.94
	802.11a	140	5700	olvibps	18.00	17.94
		144	5720		18.00	17.87
		100	5500		18.00	17.81
	802.11n20-HT0	120	5600	MCS0	18.00	17.87
		140	5700	IVICSU	18.00	17.79
		144	5720		18.00	17.83
		100	5500		18.00	17.74
	000 44 00 \ // ITO	120	5600	MCS0	18.00	17.84
	802.11ac20-VHT0	140	5700		18.00	17.86
		144	5720		18.00	17.81
		100	5500		18.00	17.86
	000 44 00 1150	120	5600	MOCO	18.00	17.88
	802.11ax20-HE0	140	5700	MCS0	18.00	17.81
		144	5720		18.00	17.81
5.6GHz		102	5510		17.50	17.26
5.0GHZ	000 44 - 40 LITO	118	5590	Moco	18.00	17.82
	802.11n40-HT0	134	5670	MCS0	18.00	17.93
		142	5710		18.00	17.85
		102	5510		17.50	17.38
	902 1100 10 V/LITO	118	5590	MCS0	18.00	17.90
	802.11ac40-VHT0	134	5670	IVICSU	18.00	17.91
		142	5710	1	18.00	17.88
		102	5510		17.50	17.27
	802.11ax40-HE0	118	5590	MCS0	18.00	17.81
	602.118X40-HE0	134	5670	IVICSU	18.00	17.86
		142	5710	1	18.00	17.89
		106	5530		17.00	16.92
	802.11ac80-VHT0	122	5610	MCS0	18.00	17.90
		138	5690	1	18.00	17.95
		106	5530		17.00	16.85
	802.11ax80-HE0	122	5610	MCS0	18.00	17.78
		138	5690]	18.00	17.87

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			Tx 1			
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		149	5745		18.00	17.84
	802.11a	157	5785	6Mbps	18.00	17.84
		165	5825		18.00	17.78
	802.11n20-HT0	149	5745		18.00	17.94
		157	5785	MCS0	18.00	17.92
		165	5825	1	18.00	17.88
		149	5745		18.00	17.76
	802.11ac20-VHT0	157	5785	MCS0	18.00	17.86
		165	5825		18.00	17.92
5.8GHz		149	5745		18.00	17.82
3.0GHZ	802.11ax20-HE0	157	5785	MCS0	18.00	17.78
		165	5825		18.00	17.80
	802.11n40-HT0	151	5755	MCS0	18.00	17.95
	002.111140-1110	159	5795	IVICSU	18.00	17.86
	802.11ac40-VHT0	151	5755	MCS0	18.00	17.84
	002.11aC40-VH10	159	5795	IVICSU	18.00	17.74
	802.11ax40-HE0	151	5755	MCS0	18.00	17.94
	002.11dX40-NEU	159	5795	IVICOU	18.00	17.79
	802.11ac80-VHT0	155	5775	MCS0	18.00	17.96
	802.11ax80-HE0	155	5775	MCS0	18.00	17.83

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No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號

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	Tx 2							
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)		
		1	2412		20.00	19.91		
	802.11b	6	2437	1Mbps	20.00	19.95		
		11	2462		20.00	19.93		
		1	2412		20.00	19.84		
	802.11g	6	2437	6Mbps	20.00	19.77		
		11	2462		19.50	19.37		
		1	2412		20.00	19.83		
	802.11n20-HT0	6	2437	MCS0	20.00	19.85		
		11	2462		19.50	19.36		
	802.11ac20-VHT0	1	2412		20.00	19.84		
		6	2437	MCS0	20.00	19.80		
2.45GHz		11	2462		19.50	19.33		
2.43602		1	2412		20.00	19.80		
	802.11ax20-HE0	6	2437	MCS0	20.00	19.90		
		11	2462		19.50	19.38		
		3	2422		19.00	18.91		
	802.11n40-HT0	6	2437	MCS0	19.50	19.31		
		9	2452]	18.50	18.40		
		3	2422		19.00	18.78		
	802.11ac40-VHT0	6	2437	MCS0	19.50	19.44		
		9	2452]	18.50	18.31		
		3	2422		19.00	18.79		
	802.11ax40-HE0	6	2437	MCS0	19.50	19.31		
		9	2452		18.50	18.37		

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			Tx 2			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		36	5180		18.00	17.79
	802.11a	40	5200	GMbpo	18.00	17.94
	002.11a	44	5220	6Mbps	18.00	17.85
		48	5240		18.00	17.91
		36	5180		18.00	17.85
	802.11n20-HT0	40	5200	MCSO	18.00	17.80
		44	5220	IVICSU	18.00	17.90
		48	5240		18.00	17.87
		36	5180		18.00	17.81
	802.11ac20-VHT0	40	5200	MCS0	18.00	17.86
		44	5220	IVICSO	18.00	17.89
5.15-5.25 GHz		48	5240		18.00	17.93
5.15-5.25 GHZ		36	5180		18.00	17.87
	802.11ax20-HE0	40	5200	MCS0	18.00	17.81
	002.11dx20-FIEU	44	5220	IVICSU	18.00	17.88
		48	5240		18.00	17.83
	802.11n40-HT0	38	5190	MCS0	18.00	17.95
	002.111140-1110	46	5230	IVICOU	18.00	17.92
	802.11ac40-VHT0	38	5190	MCS0	18.00	17.79
	002.11a040-VF110	46	5230	IVICOU	18.00	17.81
	802.11ax40-HE0	38	5190	MCS0	18.00	17.86
	002.11dX40-NEU	46	5230	IVICOU	18.00	17.89
	802.11ac80-VHT0	42	5210	MCS0	17.50	17.42
	802.11ax80-HE0	42	5210	MCS0	17.50	17.29

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			Tx 2			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		52	5260		18.00	17.78
	802.11a	56	5280	GMbpo	18.00	17.91
	002.11a	60	5300	6Mbps	18.00	17.79
		64	5320		18.00	17.86
	802.11n20-HT0	52	5260		18.00	17.90
		56	5280	MCSO	18.00	17.80
		60	5300	IVICSU	18.00	17.78
		64	5320		18.00	17.90
		52	5260		18.00	17.77
	802.11ac20-VHT0	56	5280	MCS0	18.00	17.89
		60	5300	IVICOU	18.00	17.90
5.25-5.35 GHz		64	5320		18.00	17.88
3.23-3.33 GHZ		52	5260		18.00	17.89
	802.11ax20-HE0	56	5280	MCS0	18.00	17.74
	002.11dx20-FIEU	60	5300	IVICSU	18.00	17.87
		64	5320		18.00	17.90
	802.11n40-HT0	54	5270	MCS0	18.00	17.85
	002.111140-1110	62	5310	IVICOU	18.00	17.83
	802.11ac40-VHT0	54	5270	MCS0	18.00	17.89
	002.11ac40-VIII0	62	5310	IVICOU	18.00	17.89
	802.11ax40-HE0	54	5270	MCS0	18.00	17.82
	002.11dX40-11L0	62	5310	10000	18.00	17.94
	802.11ac80-VHT0	58	5290	MCS0	18.00	17.95
	802.11ax80-HE0	58	5290	MCS0	18.00	17.84

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			Tx 2			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		100	5500		18.00	17.87
	802.11a	120	5600	CN/long	18.00	17.78
	002.11a	140	5700	6Mbps	18.00	17.94
		144	5720		18.00	17.82
		100	5500		18.00	17.85
	802.11n20-HT0	120	5600	MCS0	18.00	17.82
	802.11h20-H10	140	5700	IVICSU	18.00	17.90
		144	5720	1	18.00	17.80
		100	5500		18.00	17.90
	802.11ac20-VHT0	120	5600	MCS0	18.00	17.94
	802.11ac20-VH10	140	5700	IVICSU	18.00	17.85
		144	5720	1	18.00	17.83
		100	5500		18.00	17.91
	000 44av20 UE0	120	5600	l MCCO	18.00	17.79
	802.11ax20-HE0	140	5700	MCS0	18.00	17.82
		144	5720		18.00	17.87
5 COL -		102	5510		17.50	17.42
5.6GHz	000 44 - 40 LITO	118	5590	1	18.00	17.85
	802.11n40-HT0	134	5670	MCS0	18.00	17.90
		142	5710	1	18.00	17.90
		102	5510		17.50	17.44
	000 44 - 40 1/1/170	118	5590	1	18.00	17.94
	802.11ac40-VHT0	134	5670	MCS0	18.00	17.80
		142	5710	1	18.00	17.73
		102	5510		17.50	17.38
	000 44 40 1150	118	5590	1	18.00	17.87
	802.11ax40-HE0	134	5670	MCS0	18.00	17.82
		142	5710	1	18.00	17.92
		106	5530		17.00	16.91
	802.11ac80-VHT0	122	5610	MCS0	18.00	17.86
		138	5690	1 1	18.00	17.95
		106	5530		17.00	16.80
	802.11ax80-HE0	122	5610	MCS0	18.00	17.74
		138	5690	1 1	18.00	17.83

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			Tx 2			
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		149	5745		18.00	17.90
	802.11a	157	5785	6Mbps	18.00	17.79
		165	5825	1	18.00	17.87
		149	5745		18.00	17.82
	802.11n20-HT0	157	5785	MCS0	18.00	17.87
		165	5825		18.00	17.86
		149	5745	MCS0	18.00	17.94
	802.11ac20-VHT0	157	5785		18.00	17.80
		165	5825		18.00	17.81
5.8GHz		149	5745		18.00	17.91
3.0GHZ	802.11ax20-HE0	157	5785	MCS0	18.00	17.85
		165	5825		18.00	17.84
	802.11n40-HT0	151	5755	MCS0	18.00	17.94
	002.111140-1110	159	5795	IVICSU	18.00	17.93
	802.11ac40-VHT0	151	5755	MCS0	18.00	17.87
	002.11d040-V1110	159	5795	IVICOU	18.00	17.81
	802.11ax40-HE0	151	5755	MCS0	18.00	17.82
	002.11dX40-NEU	159	5795	IVICSU	18.00	17.94
	802.11ac80-VHT0	155	5775	MCS0	18.00	17.95
	802.11ax80-HE0	155	5775	MCS0	18.00	17.85

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Bluetooth conducted power table:

Diactorii c	onad	tou pom	oi tabio.					
			1Mbps		2Mbps		3Mbps	
Mode	Channel	Frequency (MHz)	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)
	CH 00	2402		4.50		4.00		4.00
BR/EDR	CH 39	2441	6.00	4.61	6.00	4.12	6.00	4.12
	CH 78	2480		4.79		4.49		4.43

	Mode	Channel	Frequency	GFSK			
	Wode	Onamiei	(MHz)	Max. Rated Avg.Power + Max. Tolerance (dBm)	Average Output Power (dBm)		
ĺ		CH 00	2402		4.00		
	BLE_1M	CH 19	2440	6	4.62		
		CH 39	2480		4.87		

Mode	Channel	Frequency (MHz)	GFSK			
			Max. Rated Avg.Power + Max. Tolerance (dBm)	Average Output Power (dBm)		
	CH 00	2402		4.00		
BLE_2M	CH 19	2440	6	4.62		
	CH 39	2480		4.87		

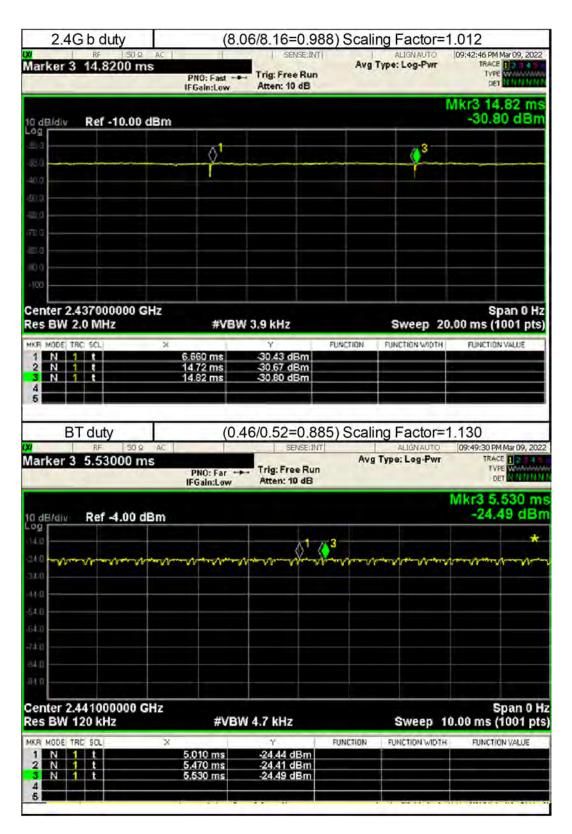
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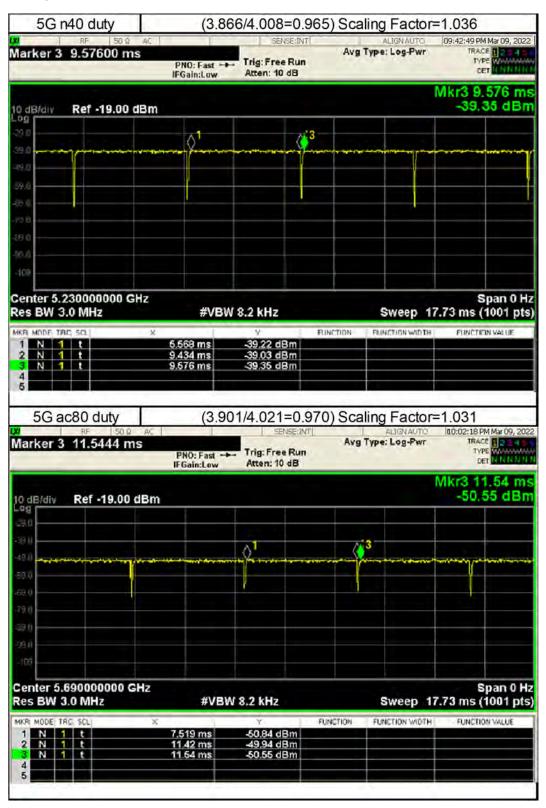


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1.4 Test Environment

Ambient Temperature: 22±2° C Tissue Simulating Liquid: 22±2° 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 not required because the distance of antenna to human body is over 20cm

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 ≤ 0.8 W/kg, no further SAR testing is required for 802.11b DSSS in that exposure configuration.
- 2. When the reported SAR is > 0.8 W/kg, SAR is required for that exposure configuration using the next highest measured output power channel. When any reported SAR is > 1.2 W/kg, SAR is required for the third channel; i.e., all channels require testing.

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 ≤ 1.2 W/kg.

Initial Test Configuration:

4. An initial test configuration is determined for OFDM transmission modes according to the channel bandwidth, modulation and data rate combination(s)

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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 Range	WLAN TX		
Lid Close	0° ≤ Lid angle <35° (Lid Hall Sensor Trigger)	No TX Transmission		
Notebook	35° ≤ Lid angle < 130° (Lid Hall Sensor Release)	Full Power Level		
Tablet mode	130° ≤ Lid angle ≤ 360°	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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Operating mode validation by power measurement

		Ope	erating r	<u>node va</u>	lidation	by pow	er meas	uremen	t	
Antenna	Operation mode	Lid angle	802.11b	802.11n(40M) 5.2G	802.11n(40M) 5.3G	802.11ac(80M) 5.3G	802.11n(40M) 5.6G	802.11ac(80M) 5.6G	802.11n(40M) 5.8G	802.11ac(80M) 5.8G
		0° 10°	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a
	Lid close	20°	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
		30°	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	Laptop	40° 35°	20.99 20.95	21.00 20.92	20.96 20.91	20.95 20.93	20.96 21.00	20.96 20.90	20.94 20.90	20.95 20.94
		30°	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	Lid close	31° 32°	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a
	Ed close	33°	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
		34°	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
		35°	20.96 20.98	20.98 20.90	21.00 20.92	20.99 21.00	20.92 21.00	20.92 20.96	20.92 20.94	20.98 20.98
		37°	20.97	20.99	20.91	21.00	20.90	20.91	20.96	20.99
	Laptop	38°	20.99 20.94	20.93 20.93	20.96 20.97	20.99 20.98	20.99 20.90	20.90 20.95	20.90 20.92	20.95 20.91
		40°	20.95	20.96	21.00	20.96	20.94	20.90	21.00	20.98
		50°	20.95	20.92	20.90	20.99	20.93	20.98	20.94	21.00
		60° 70°	20.93 20.97	20.97 20.97	20.99 20.91	21.00 20.93	20.91 21.00	20.98 20.97	21.00 20.97	20.92 20.95
		80°	20.93	20.93	20.91	20.94	20.93	20.96	20.95	20.97
		90° 100°	20.93 20.90	20.97 21.00	20.93 20.92	20.97 20.91	20.98 20.92	20.97 20.99	20.96 21.00	20.99 20.95
		110°	20.93	20.90	20.92	20.90	20.99	20.95	20.94	20.97
	Tables	120°	20.99	20.95	20.92	20.95	20.94	20.92	20.99	20.99
	Tablet	130° 125°	19.91 20.97	17.92 20.90	18.00 20.95	17.93 21.00	18.00 20.98	17.90 20.95	17.96 20.97	17.93 20.97
		126°	20.93	20.92	20.97	20.98	20.98	20.91	20.98	20.98
	Laptop	127° 128°	20.99 20.94	20.93 20.96	20.99 20.92	20.99 21.00	20.94 21.00	20.93 20.94	20.97 20.97	20.98 20.91
		129°	20.94	20.96	20.91	20.90	20.97	20.92	20.97	21.00
		130°	19.95	17.99	17.93	17.92	17.93	17.91	17.90	17.99
		131° 132°	19.99 19.96	17.96 17.95	17.97 17.95	17.90 17.99	17.99 17.91	17.93 17.90	17.97 18.00	17.95 18.00
		133°	19.99	17.94	17.91	17.93	17.97	17.91	17.96	17.94
		134° 135°	19.97 19.97	17.97 17.96	18.00 17.97	17.98 17.99	17.97 17.92	17.90 17.94	17.94 17.91	17.95 17.93
		145°	19.90	17.95	17.93	18.00	17.94	17.95	17.98	17.95
		155°	19.92	17.96	17.91	18.00	17.93	18.00	17.91	17.91
		165° 175°	19.94 19.96	17.96 17.91	17.99 17.96	17.90 17.92	17.90 17.91	18.00 17.93	17.99 17.90	17.91 17.90
		185°	19.91	18.00	17.91	17.94	17.93	17.95	17.94	17.96
		195° 205°	19.95 20.00	18.00 17.94	17.91 17.98	17.95 17.90	17.93 17.90	18.00 17.97	17.90 17.92	17.90 17.91
		205°	19.96	17.94	17.98	17.90	17.90	17.97	17.92	17.91
	Tablet	225°	19.98	17.98	17.92	17.99	17.96	17.93	18.00	17.91
		235° 245°	19.95 19.97	17.99 17.96	17.93 18.00	17.92 18.00	17.95 17.92	17.98 17.99	18.00 17.91	17.97 17.92
		255°	19.90	17.99	17.93	17.90	17.91	17.90	17.97	17.97
		265° 275°	19.91 19.97	17.91 17.96	17.94 17.98	17.95 17.93	17.91 17.98	17.97 17.93	17.90 17.94	17.95 17.94
		285°	19.93	17.90	17.94	18.00	17.98	17.98	17.94	17.94
		295°	19.90	17.93	17.92	17.95	18.00	17.97	17.92	17.94
		305° 315°	20.00 19.99	17.91 17.95	17.95 17.99	17.98 17.95	17.93 17.94	17.99 17.91	17.90 17.91	17.91 17.94
Tx1		325°	19.99	17.91	18.00	17.96	18.00	17.95	17.95	17.98
IXI		335° 345°	20.00 19.97	17.95 17.95	17.96 17.92	17.98 17.94	17.99 17.96	17.92 17.96	17.99 17.90	17.99 17.94
		355°	19.90	17.93	17.97	17.96	18.00	17.98	17.93	17.94
		360°	19.93	17.99	17.91	17.99	17.96	17.96	17.90	17.91
		350° 340°	19.93 19.94	17.90 17.97	17.94 17.94	17.91 17.99	18.00 17.90	17.91 17.91	18.00 17.93	17.92 17.90
		330°	19.94	17.97	17.97	17.92	17.95	17.90	17.92	17.93
	1	320° 310°	19.90 19.96	17.97 17.96	18.00 17.91	17.94 18.00	17.99 17.96	17.90 17.94	17.98 17.93	17.92 17.93
		300°	19.98	17.98	17.98	17.91	17.99	17.98	17.99	17.93
		290°	19.92	17.99	17.94	17.91	17.94	17.91	17.98	18.00
		280° 270°	19.96 19.95	17.98 17.93	17.93 17.91	18.00 17.98	17.93 17.97	17.96 18.00	17.91 18.00	17.93 17.99
		260°	19.98	17.91	17.97	17.99	18.00	17.93	18.00	18.00
	Tables	250° 240°	19.95 19.91	17.90 17.91	17.94 17.90	17.96 17.98	17.97 17.95	17.92 17.93	17.91 17.94	17.90 17.95
	Tablet	240° 230°	19.91	18.00	17.93	17.98	17.95	17.93	17.94	17.96
		220°	19.90	17.91	17.93	17.95	17.92	17.99	17.96	17.90
		210° 200°	19.97 20.00	17.91 17.97	17.96 17.96	18.00 17.96	17.91 17.95	17.92 17.98	17.98 17.93	17.97 17.99
		190°	19.91	17.97	17.97	18.00	17.91	17.94	17.97	17.97
		180° 170°	19.93 20.00	17.93 18.00	17.97 17.98	18.00 18.00	17.90 17.99	18.00 18.00	17.99 17.95	18.00 17.90
		160°	19.95	17.93	17.92	17.99	17.93	17.93	17.90	17.93
		150° 140°	19.91	17.91	17.98	17.94	17.94	17.96	18.00	17.96
		140° 130°	19.93 19.90	17.91 17.97	17.92 17.97	17.94 17.92	17.92 17.96	17.98 18.00	18.00 17.99	17.93 17.96
	Laptop	120°	20.98	20.92	21.00	20.93	21.00	20.93	20.90	20.93
		125°	20.91	20.90	20.92	20.90	20.97	20.93	20.97	20.94
	Tablet	130° 129°	19.96 20.93	17.91 20.93	17.95 20.95	17.98 21.00	18.00 20.93	17.97 20.98	17.94 21.00	17.99 20.97
		128°	21.00	20.96	20.96	20.90	20.94	20.91	20.92	20.95
		127°	20.98	20.92	20.97	20.94	20.99	20.99	20.98	21.00
	Laptop	126° 125°	20.99 20.93	20.94 20.90	20.97 20.90	21.00 20.96	20.95 20.91	20.91 20.98	21.00 20.99	20.98 20.94
1		115°	21.00	20.92	20.92	20.93	20.91	20.92	20.94	21.00
1		105° 95°	20.97 20.96	20.99 20.91	20.94 20.97	20.98 20.93	20.99 20.93	20.90 20.94	20.90 20.92	20.97 20.94
_		95° 85°	20.96 20.92	20.91	20.97 20.90	20.93 20.95	20.93 20.91	20.94 20.95	20.92 20.98	20.94
		75°	20.94	20.90	20.98	20.99	20.92	20.93	21.00	20.92
		65°	20.99	20.93	21.00	20.92	20.93	20.93	20.94	20.90
		55° 45°	20.91 21.00	20.95 20.98	20.97 20.90	20.90 20.99	20.95 20.92	20.99 20.97	20.98 21.00	20.92 20.97
		35°	20.95	20.95	20.98	20.96	20.98	20.93	20.93	20.92
	Lid close	25°	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	Laptop	30°	n/a 20.91	n/a 20.90	n/a 20.97	n/a 20.91	n/a 20.99	n/a 20.95	n/a 20.92	n/a 20.94
		34°	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
		33°	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
		32° 31°	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a
	Lid close	30°	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
		20° 10°	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a
		0°	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a

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Antenna	Operation mode	Lid angle 0°	802.11b n/a	802.11n(40M) 5.2G n/a	802.11n(40M) 5.3G n/a	802.11ac(80M) 5.3G n/a	802.11n(40M) 5.6G n/a	802.11ac(80M) 5.6G n/a	802.11n(40M) 5.8G n/a	802.11ac(80M) 5.8G n/a
	Lid close	10° 20°	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a
		30°	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	Laptop	40° 35°	20.99 21.00	20.92 20.96	20.91 20.99	20.91 20.90	20.94 20.98	20.96 21.00	20.94 20.94	20.99 20.95
		30°	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	Lid close	31° 32°	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a
	24 01000	33°	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
		34° 35°	n/a 20.98	n/a 20.99	n/a 20.92	n/a 20.93	n/a 20.96	n/a 20.92	n/a 20.91	n/a 20.92
		36°	20.99	20.93	20.95	20.97	20.91	20.90	20.95	20.90
		37°	20.98 20.93	20.95 20.99	20.98 20.91	20.99 20.96	20.95 20.97	20.94 20.91	20.96 20.91	20.92 20.92
		39° 40°	20.96 20.99	20.93 20.99	20.93 20.98	20.97 20.90	20.95 20.94	20.91 21.00	20.99 20.90	20.94 20.91
	Laptop	50°	20.95	20.99	21.00	20.97	20.96	20.91	20.96	20.92
		60° 70°	20.91 20.94	20.91 20.99	20.94 20.91	21.00 20.99	20.92 20.96	20.97 20.93	20.98 21.00	20.94 20.90
		80°	20.91	20.99	20.95	20.92	20.98	20.91	20.97	21.00
		90° 100°	20.98 20.93	20.95 20.99	20.92 20.99	20.95 20.95	20.92 20.90	20.94 20.99	20.91 20.97	20.92 20.91
		110°	20.93	20.94	20.92	20.90	20.94	20.99	20.90	20.93
	Tablet	120° 130°	20.96 20.00	20.91 17.91	20.98 17.99	20.91 17.92	20.93 17.92	20.93 17.96	21.00 17.94	20.98 17.99
		125°	20.90	20.93	20.96 20.92	20.93	20.90	20.92	20.92	20.98
	Laptop	126° 127°	20.93 20.94	20.93 20.99	20.92	21.00 20.95	21.00 21.00	20.92 21.00	21.00 20.92	20.96 20.91
		128° 129°	20.92 20.92	20.93 20.96	20.92 20.99	20.91 20.93	20.94 21.00	20.98 20.99	20.94 21.00	20.94 20.94
		130°	19.94	17.94	17.99	17.91	17.93	17.96	17.93	17.93
		131° 132°	19.97 19.98	17.98 17.95	17.91 17.95	18.00 17.90	17.92 17.98	17.94 17.96	17.94 17.96	17.98 17.91
		133°	19.97	18.00	17.95	17.96	17.90	17.91	17.96	17.93
		134° 135°	19.91 19.91	17.96 17.94	17.99 17.95	18.00 17.91	17.99 17.91	17.91 17.95	17.90 18.00	17.93 17.99
		145°	19.98	17.92	17.99	17.91	17.97	17.98	17.90	17.92
		155° 165°	19.93 19.97	17.90 17.90	17.92 17.93	17.94 17.91	17.92 17.90	17.96 17.92	17.93 17.92	17.96 17.91
		175° 185°	19.98 19.97	17.94 17.95	17.97 17.92	17.93 17.94	18.00 17.92	17.92 17.96	17.94 17.95	17.98 17.90
		195°	19.97	17.97	17.90	17.97	17.99	17.93	17.93	17.97
		205° 215°	19.91 19.91	17.99 17.97	17.99 17.91	17.98 17.90	17.95 17.97	17.91 17.97	17.91 17.94	18.00 17.92
	Tablet	225°	19.98	17.99	17.91	17.93	17.97	17.97	17.91	17.98
		235° 245°	20.00 19.95	18.00 17.92	17.99 17.96	17.94 17.97	18.00 17.92	17.94 17.97	18.00 17.93	18.00 17.90
		255°	20.00	17.99	17.96	17.99	17.94	18.00	17.95	17.92
		265° 275°	19.92 19.96	17.95 17.94	17.99 17.96	17.97 17.90	17.95 18.00	17.95 17.93	17.99 17.98	17.93 17.99
		285°	19.94	17.97	17.95	17.90	18.00	17.93	17.91	17.91
		295° 305°	19.95 19.92	17.95 17.91	17.92 17.93	17.92 18.00	17.93 17.90	17.97 17.99	17.97 17.93	17.91 17.94
		315° 325°	20.00 19.93	17.97 18.00	17.91 17.90	17.92 17.94	17.91 17.93	17.99 17.98	18.00 17.92	17.93 18.00
Tx2		335°	19.93	17.94	17.98	17.95	17.94	18.00	17.96	17.95
		345° 355°	19.96 20.00	17.93 17.96	17.99 18.00	17.99 17.91	17.90 17.95	17.92 17.98	17.97 17.94	17.94 18.00
		360°	19.92	17.99	17.91	17.93	17.91	17.91	17.95	17.93
		350° 340°	19.94 19.95	17.91 17.95	17.92 17.94	17.94 17.95	17.95 17.96	17.94 17.99	18.00 17.95	17.93 17.93
		330° 320°	19.97 20.00	17.96 17.95	17.95 17.99	17.94 17.95	17.94 17.92	17.91 17.94	17.96 17.94	17.97 17.94
		310°	20.00	17.94	17.90	17.90	17.96	17.99	17.92	18.00
		300° 290°	19.93 19.93	17.97 17.96	17.92 17.98	17.98 17.98	17.96 17.93	17.94 17.97	18.00 17.95	17.98 17.92
		280°	19.97	17.92	17.96	18.00	17.91	17.96	17.90	17.91
		270° 260°	19.92 19.95	17.93 17.95	17.96 17.95	17.92 17.96	17.91 17.91	17.99 17.97	17.90 17.91	17.91 17.91
		250°	19.93	17.95	17.95	17.98	17.96	17.98	17.99	17.90
	Tablet	240° 230°	19.97 19.96	17.94 17.99	17.98 17.96	17.95 17.91	17.95 17.97	18.00 17.96	17.91 17.98	17.96 17.96
		220° 210°	19.93 19.96	17.90 17.99	18.00 17.90	17.98 17.96	17.94 18.00	17.95 17.97	18.00 17.91	17.93 17.93
		200°	19.93	17.91	17.96	17.91	17.90	17.97	17.95	17.99
		190° 180°	19.95 19.99	17.94 17.91	17.96 17.90	17.95 18.00	17.99 17.96	17.93 17.92	17.95 17.95	17.93 17.99
		170°	19.90	17.90	17.99	17.92	17.92	17.94	17.92	17.92
		160° 150°	19.93 19.90	17.94 18.00	17.94 17.96	18.00 17.90	17.97 17.93	17.94 17.93	17.95 17.91	18.00 17.98
		140°	19.91	17.98	17.93	17.93	17.92	17.98	17.92	17.98
	Larter	130° 120°	20.00 21.00	18.00 20.99	17.99 20.93	17.94 20.94	17.94 20.99	17.90 20.93	17.92 20.91	17.93 20.98
	Laptop	125°	20.96	20.90	20.95	20.97	20.91	20.98	20.98	20.95
	Tablet	130° 129°	19.93 20.90	17.94 20.94	17.95 20.96	17.98 20.99	17.95 20.99	17.93 20.98	17.93 20.90	17.90 20.94
		128°	20.97	20.91	20.96	20.95	20.91	20.98	20.94	20.94
		127° 126°	20.94 20.96	20.92 20.96	20.92 20.97	20.96 21.00	20.92 20.95	20.92 20.93	20.96 20.93	20.99 20.96
		125°	20.93	20.93	21.00	20.91	20.93	20.92	20.94	20.90
	l arti-	115° 105°	20.93 20.97	20.92 20.94	20.90 20.96	20.91 20.96	20.93 20.95	20.98 21.00	21.00 20.90	20.95 20.94
	Laptop	95° 85°	21.00	20.97	20.92	20.93	20.93	20.93 20.93	21.00	21.00
		85° 75°	20.98 21.00	20.98 20.92	20.93 20.93	20.98 20.94	20.92 20.95	20.93 21.00	20.90 20.97	20.95 20.97
		65° 55°	20.95 20.96	20.97 21.00	20.96 20.91	20.99 20.97	20.96 20.96	20.96 20.91	20.90 20.91	20.90 20.91
		45°	20.96	21.00	20.91	20.97	20.96	20.91	20.95	20.91
		35°	20.99	20.91	20.92	20.98	20.98	21.00	20.91	21.00
	Lid close	25° 30°	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a
	Laptop	35° 34°	20.99	20.91	20.94	21.00	20.98	20.93	20.97	21.00
		33°	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a
		32° 31°	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a
	Lid close	30°	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
		20° 10°	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a
		0°	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

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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= σ ($|Ei|^2$)/ ρ 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.

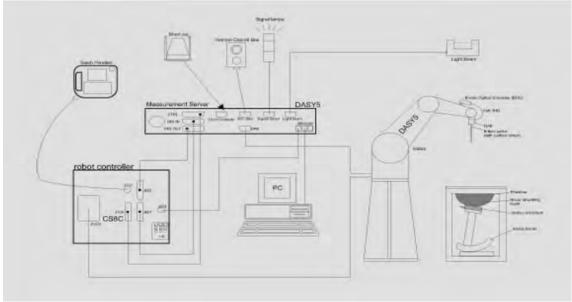


Fig. a The block diagram of SAR system

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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.
- Remote control with teach pendant and additional circuitry for robot safety such as warning lamps, etc.
- Tissue simulating liquid mixed according to the given recipes.
- 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

PHANTOW		
Model	ELI	
Construction	body-mounted wireless devices to 6 GHz. ELI is fully constandard and all known tissue optimized regarding its perforn our standard phantom tables. A liquid. Reference markings on the complete setup, including	ompliance testing of handheld and in the frequency range of 30 MHz apatible with the IEC 62209-2 simulating liquids. ELI has been nance and can be integrated into a cover prevents evaporation of the the phantom allow installation of all predefined phantom positions aching three points. The phantom osimetric probes and dipoles.
Shell	2 ± 0.2 mm	71000
Thickness		142
Filling Volume	Approx. 30 liters	
Dimensions	Major axis: 600 mm Minor axis: 400 mm	

DEVICE HOLDED

DEVICE HOLL)LN	
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.	
		Device Holder

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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 ≥ 15 cm ± 5 mm 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.

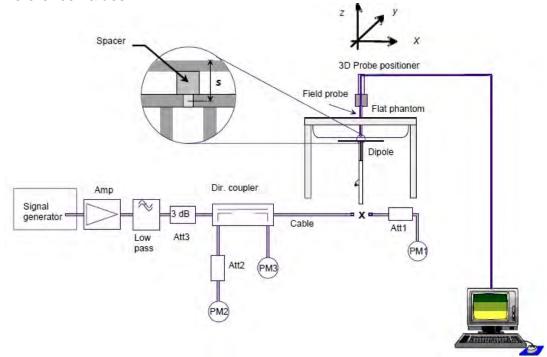


Fig. b The block diagram of system verification

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Validation Kit	S/N	•	uency Hz)	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	13.70	54.8	1.67%	Mar. 09, 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
		5250	Head	81	7.91	79.1	-2.35%	Mar. 10, 2022
D5GHzV2	1023	1023 5600 Head		84.4	8.04	80.4	-4.74%	Mar. 11, 2022
		5750	Head	81	7.70	77	-4.94%	Mar. 11, 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 cm \pm 5 mm during all tests. (Fig. 2)

Tissue Type	Measurement Date	Measured Frequency (MHz)	Target Dielectric Constant, εr	Target Conductivity, σ (S/m)	Measured Dielectric Constant, εr	Measured Conductivity, σ (S/m)	% dev εr	% dev σ
		2402	39.282	1.757	38.343	1.808	-2.39%	2.87%
		2412	39.265	1.766	38.291	1.819	-2.48%	2.98%
		2437	39.222	1.788	38.177	1.85	-2.67%	3.44%
	Mar. 09, 2022	2441	39.215	1.792	38.169	1.855	-2.67%	3.51%
		2450	39.200	1.800	38.148	1.865	-2.68%	3.61%
		2462	39.184	1.813	38.099	1.878	-2.77%	3.60%
		2480	39.160	1.832	38.021	1.897	-2.91%	3.55%
		5190	36.010	4.650	37.289	4.486	3.55%	-3.52%
Head	Mar. 40, 2022	5230	35.951	4.686	36.977	4.543	2.85%	-3.05%
	Mar. 10, 2022	5250	35.970	4.690	36.917	4.574	2.63%	-2.47%
		5290	35.950	4.710	36.861	4.617	2.53%	-1.97%
		5530	35.605	4.997	36.099	4.911	1.39%	-1.71%
		5600	35.500	5.070	35.822	4.989	0.91%	-1.60%
	Mor 11 2022	5610	35.485	5.081	35.796	4.998	0.88%	-1.62%
	Mar. 11, 2022	5690	35.365	5.165	35.501	5.097	0.38%	-1.31%
		5750	35.275	5.228	35.374	5.168	0.28%	-1.14%
		5775	35.238	5.254	35.258	5.205	0.06%	-0.93%

Table 2. Dielectric Parameters of Tissue Simulant Fluid

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The composition of the brain tissue simulating liquid is:

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

Broad-band head tissue simulating	L SPEAG PRODUCE I	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 the 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 (~ 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 ±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 ± 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.

References

- 1. N. Kuster, Q. Balzano, and J.C. Lin, Eds., Mobile Communications Safety, Chapman & Hall, London, 1997.
- K. Meier, M. Burkhardt, T. Schmid, and N. Kuster, \Broadband 2. calibration of E-field probes in lossy media", IEEE Transactions on Microwave Theory and Techniques, vol. 44, no. 10, pp. 1954{1962,
- K. Jokela, P. Hyysalo, and L. Puranen, \Calibration of specific 3. 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

HONG-BO

Tx1											
Mode	Position	Distance	CH	Freq.	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle	Power	Averaged SAR	R over 1g (W/kg)	Plot page
Wode	FOSIBOTI	(mm)	On	(MHz)	Tolerance (dBm)	(dBm)	scaling	scaling	Measured	Reported	riot page
	Back Surface	0	1	2412	20.00	19.96	1.012	100.93%	0.124	0.127	
	Top Edge	0	1	2412	20.00	19.96	1.012	100.93%	0.519	0.530	
WLAN 802.11b	Top Edge	0	6	2437	20.00	19.93	1.012	101.62%	0.484	0.498	-
EAI002.110	Top Edge	0	11	2462	20.00	19.90	1.012	102.33%	0.538	0.557	61
	Right Edge	0	1	2412	20.00	19.96	1.012	100.93%	0.236	0.241	-
Tx1	Left Edge	0	1	2412	20.00	19.96	1.012	100.93%	0.019	0.019	-
Mode	Position	Distance	CH	Freq.	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle	Power	Averaged SAR	R over 1g (W/kg)	Plot page
Mode	Position	(mm)	СП	(MHz)	Tolerance (dBm)	(dBm)	scaling	scaling	Measured	Reported	Plot page
	Back Surface	0	78	2480	6.00	4.79	1.130	132.13%	0.008	0.012	-
Bluetooth	Top Edge	0	78	2480	6.00	4.79	1.130	132.13%	0.017	0.026	62
(GFSK)	Right Edge	0	78	2480	6.00	4.79	1.130	132.13%	0.009	0.013	-
<u></u>	Left Edge	0	78	2480	6.00	4.79	1.130	132.13%	0.001	0.001	-
Tx1 Mode	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Measured	R over 1g (W/kg)	Plot page
WLAN 802.11n	Back Surface	0	46	5230	18.00	17.96	1.036	100.93%	0.126	0.132	-
(40M)	Top Edge	0	46	5230	18.00	17.96	1.036	100.93%	0.522	0.546	63
5.2G	Right Edge	0	46	5230	18.00	17.96	1.036	100.93%	0.140	0.146	
Tx1	Left Edge	0	46	5230	18.00	17.96	1.036	100.93%	0.060	0.063	-
Mode	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR Measured	R over 1g (W/kg)	Plot page
	Back Surface	0	58	5290	18.00	17.95	1.031	101.16%	0.147	0.153	
WLAN 802.11ac	Top Edge	Ö	58	5290	18.00	17.95	1.031	101.16%	0.537	0.560	64
(80M) 5.3G	Right Edge	0	58	5290	18.00	17.95	1.031	101.16%	0.133	0.139	-
5.36	Left Edge	0	58	5290	18.00	17.95	1.031	101.16%	0.069	0.072	-
Tx1											
Mode	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR Measured	R over 1g (W/kg)	Plot page
	Back Surface	0	138	5690	18.00	17.95	1.031	101.16%	0.231	0.241	
WLAN 802.11ac	Top Edge	0	106	5530	17.00	16.92	1.031	101.86%	0.652	0.685	-
(80M)	Top Edge	0	122	5610	18.00	17.90	1.031	102.33%	0.780	0.823	-
(80M) 5.6G	Top Edge	0	138	5690	18.00	17.95	1.031	101.16%	0.813	0.848	65
	Right Edge	0	138	5690	18.00	17.95	1.031	101.16%	0.215	0.224	-
	Left Edge	0	138	5690	18.00	17.95	1.031	101.16%	0.082	0.086	-
Repeat											
	Left Edge	0	138	5690	18.00	17.95	1.031	101.16%	0.082 0.792	0.086	
Repeat Tx1 Mode	Left Edge Top Edge Position	0 0 Distance	138 138	5690 5690 Freq. (MHz)	18.00 18.00 Max. Rated Avg. Power + Max. Tolerance (dBm)	17.95 17.95 Measured Avg. Power (dBm)	1.031 1.031 Duty cycle scaling	101.16% 101.16% Power scaling	0.082 0.792 Averaged SAR Measured	0.086 0.826 R over 1g (W/kg)	-
Repeat Tx1 Mode WLAN 802.11ac	Left Edge Top Edge Position Back Surface	0 0 Distance (mm)	138 138 CH	5690 5690 Freq.	18.00 18.00 Max. Rated Avg. Power + Max.	17.95 17.95 Measured Avg. Power (dBm)	1.031 1.031 Duty cycle	101.16% 101.16% Power	0.082 0.792 Averaged SAR	0.086 0.826	- - Plot page
Repeat Tx1 Mode	Left Edge Top Edge Position	0 0 Distance (mm)	138 138	5690 5690 Freq. (MHz)	18.00 18.00 Max. Rated Avg. Power + Max. Tolerance (dBm)	17.95 17.95 Measured Avg. Power (dBm)	1.031 1.031 Duty cycle scaling	101.16% 101.16% Power scaling	0.082 0.792 Averaged SAR Measured 0.245	0.086 0.826 R over 1g (W/kg) Reported 0.255	- Plot page

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

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Tx2													
Mode	Position	Distance	CH	Freq.	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle	Power	Averaged SAF	R over 1g (W/kg)	Plot page		
Wode	i osidori	(mm)	OH	(MHz)	Tolerance (dBm)	(dBm)	scaling	scaling	Measured	Reported	1 lot page		
	Back Surface	0	6	2437	20.00	19.95	1.012	101.16%	0.121	0.124	-		
	Top Edge	0	1	2412	20.00	19.91	1.012	102.09%	0.411	0.425			
WLAN 802.11b	Top Edge	0	6	2437	20.00	19.95	1.012	101.16%	0.574	0.588	-		
**EAI* 002.110	Top Edge	0	11	2462	20.00	19.93	1.012	101.62%	0.751	0.772	67		
	Right Edge	0	6	2437	20.00	19.95	1.012	101.16%	0.045	0.046	-		
	Left Edge	0	6	2437	20.00	19.95	1.012	101.16%	0.367	0.376	-		
Tx2													
										SAR over 1g			
	B	Distance	СН	Freq.	Max. Rated Avg.	Measured	Duty cycle	Power	(V)	/kg)	81		
Mode	Position	(mm)	Cn	(MHz)	Power + Max. Tolerance (dBm)	Avg. Power (dBm)	scaling	scaling	Measured	Reported	- Plot page		
	Back Surface	0	38	5190	18.00	17.95	1.036	101.16%	0.226	0.237	-		
WLAN 802.11n	Top Edge	0	38	5190	18.00	17.95	1.036	101.16%	0.735	0.770	68		
(40M)	Top Edge	0	46	5230	18.00	17.92	1.036	101.86%	0.696	0.734	-		
5.2G	Right Edge	0	38	5190	18.00	17.95	1.036	101.16%	0.050	0.052	-		
x2	Left Edge	0	38	5190	18.00	17.95	1.036	101.16%	0.364	0.381	-		
1,72									Augraged SAE	veraged SAR over 1g (W/kg)			
Mode	Position	Distance	СН	Freq. (MHz)	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle	Power	Tover ig (vv/kg)	Plot page			
		(mm)		(IMHZ)	Tolerance (dBm)	(dBm)	scaling	scaling	Measured	Reported			
WLAN 802.11ac	Back Surface	0	58	5290	18.00	17.95	1.031	101.16%	0.325	0.339	-		
(80M)	Top Edge	0	58	5290	18.00	17.95	1.031	101.16%	0.833	0.869	69		
5.3G	Right Edge	0	58	5290	18.00	17.95	1.031	101.16%	0.032	0.033	-		
5.30	Left Edge	0	58	5290	18.00	17.95	1.031	101.16%	0.381	0.397			
Repeat	Top Edge	0	58	5290	18.00	17.95	1.031	101.16%	0.794	0.828	-		
x2													
		Distance		Freq.	Max. Rated Avg.	Measured	Duty cycle	Power	Averaged SAF	R over 1g (W/kg)			
Mode	Position	(mm)	CH	(MHz)	Power + Max. Tolerance (dBm)	Avg. Power (dBm)	scaling	Power scaling	Measured	Reported	Plot page		
	Back Surface	0	138	5690	18.00	17.95	1.031	101.16%	0.335	0.349	-		
MI AN 000 44 : :	Top Edge	0	106	5530	17.00	16.91	1.031	102.09%	0.742	0.781	-		
WLAN 802.11ac	Top Edge	0	122	5610	18.00	17.86	1.031	103.28%	0.798	0.850	-		
(80M) 5.6G	Top Edge	0	138	5690	18.00	17.95	1.031	101.16%	0.859	0.896	70		
5.00	Right Edge	0	138	5690	18.00	17.95	1.031	101.16%	0.083	0.087	-		
	Left Edge	0	138	5690	18.00	17.95	1.031	101.16%	0.402	0.419			
Repeat	Top Edge	0	138	5690	18.00	17.95	1.031	101.16%	0.821	0.856	-		
x2													
		Distance		Freq.	Max. Rated Avg.	Measured	Duty cycle	Power	Averaged SAR over 1g (W/kg)				
Mode	Position	Position Distance (mm)		CH Freq. (MHz)	Power + Max. Tolerance (dBm)	Avg. Power (dBm)	Duty cycle scaling	Power scaling	Measured	Reported	Plot page		
Mode													
	Back Surface	0	155	5775	18.00	17.95	1.031	101.16%	0.282	0.294			
WLAN 802.11ac	Back Surface Top Edge	0	155 155	5775 5775	18.00 18.00	17.95 17.95	1.031 1.031	101.16% 101.16%	0.282 0.746	0.294 0.778	- 71		

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

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x1											
Mode	Position	Distance	CH	Freq.	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle	Power	Averaged SAF	R over 1g (W/kg)	- Plot page
		(mm)		(MHz)	Tolerance (dBm)	(dBm)	scaling	scaling	Measured	Reported	
	Back Surface	0	1	2412	20.00	19.96	1.012	100.93%	0.174	0.178	-
	Top Edge	0	1	2412	20.00	19.96	1.012	100.93%	0.641	0.655	-
WLAN 802.11b	Top Edge	0	6	2437	20.00	19.93	1.012	101.62%	0.837	0.861	72
WEATH OUZ. I ID	Top Edge	0	11	2462	20.00	19.90	1.012	102.33%	0.653	0.676	-
	Right Edge	0	1	2412	20.00	19.96	1.012	100.93%	0.497	0.508	-
	Left Edge	0	1	2412	20.00	19.96	1.012	100.93%	0.024	0.025	-
Repeat	Top Edge	0	6	2437	20.00	19.93	1.012	101.62%	0.802	0.825	-
										•	
Mode	Position	Distance	СН	Freq.	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle	Power	Averaged SAF	R over 1g (W/kg)	Plot page
		(mm)		(MHz)	Tolerance (dBm)	(dBm)	scaling	scaling	Measured	Reported	.,,,,
	Back Surface	0	78	2480	6.00	4.79	1.130	132.13%	0.014	0.021	-
Bluetooth	Top Edge	0	78	2480	6.00	4.79	1.130	132.13%	0.026	0.039	73
(GFSK)	Right Edge	0	78	2480	6.00	4.79	1.130	132.13%	0.015	0.022	-
	Left Edge	0	78	2480	6.00	4.79	1.130	132.13%	0.001	0.001	-
Mode	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle scaling	Power scaling	Averaged SAF	R over 1g (W/kg)	- Plot page
		, ,		` '	Tolerance (dBm)	(dBm)	Ů	,	Measured	Reported	
WLAN 802.11n	Back Surface	0	46	5230	18.00	17.96	1.036	100.93%	0.047	0.049	-
(40M)	Top Edge	0	46	5230	18.00	17.96	1.036	100.93%	0.403	0.421	74
5.2G	Right Edge	0	46	5230	18.00	17.96	1.036	100.93%	0.142	0.148	-
	Left Edge	0	46	5230	18.00	17.96	1.036	100.93%	0.044	0.046	-
1 Mode	Position	Distance	CH	Freq.	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle	Power	Averaged SAF	Averaged SAR over 1g (W/kg)	
Mode	Position	(mm)	СП	(MHz)	Tolerance (dBm)	(dBm)	scaling	scaling	Measured	Reported	Plot page
WLAN 802.11ac	Back Surface	0	58	5290	18.00	17.95	1.031	101.16%	0.147	0.153	-
(80M)	Top Edge	0	58	5290	18.00	17.95	1.031	101.16%	0.445	0.464	75
(60W) 5.3G	Right Edge	0	58	5290	18.00	17.95	1.031	101.16%	0.143	0.149	-
5.36	Left Edge	0	58	5290	18.00	17.95	1.031	101.16%	0.051	0.053	-
1	•		•	•	•		•		•	•	•
Mode	Position	Distance	CH	Freq.	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle	Power	Averaged SAF	over 1g (W/kg)	- Plot page
		(mm)		(MHz)	Tolerance (dBm)	(dBm)	scaling	scaling	Measured	Reported	
·	Back Surface	0	138	5690	18.00	17.95	1.031	101.16%	0.154	0.161	-
MI ANI 000 44c :	Top Edge	0	106	5530	17.00	16.92	1.031	101.86%	0.377	0.396	-
VLAN 802.11ac	Top Edge	0	122	5610	18.00	17.90	1.031	102.33%	0.445	0.469	-
(80M)	Top Edge	0	138	5690	18.00	17.95	1.031	101.16%	0.467	0.487	76
5.6G	Right Edge	0	138	5690	18.00	17.95	1.031	101.16%	0.145	0.151	-
	Left Edge	0	138	5690	18.00	17.95	1.031	101.16%	0.030	0.031	-
·		-	-					-			
	Position	Distance	011	Freq.	Max. Rated Avg.	Measured	Duty cycle	Power	Averaged SAF	R over 1g (W/kg)	8
Mode		(mm)	CH	(MHz)	Power + Max. Tolerance (dBm)	Avg. Power (dBm)	scaling	scaling	Measured	Reported	Plot page
MI AN 000 44:	Back Surface	0	155	5775	18.00	17.96	1.031	100.93%	0.185	0.192	-
VLAN 802.11ac (80M)	Top Edge	0	155	5775	18.00	17.96	1.031	100.93%	0.406	0.422	77
	Right Edge	0	155	5775	18.00	17.96	1.031	100.93%	0.118	0.123	-
5.8G	Left Edge	0	155	5775	18.00	17.96	1.031	100 93%	0.026	0.027	

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

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Tx2											
Mode	Position	Distance	CH	Freq.	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle	Power	Averaged SAF	R over 1g (W/kg)	Plot page
		(mm)		(MHz)	Tolerance (dBm)	(dBm)	scaling	scaling	Measured	Reported	
	Back Surface	0	6	2437	20.00	19.95	1.012	101.16%	0.169	0.173	-
	Top Edge	0	1	2412	20.00	19.91	1.012	102.09%	0.176	0.182	-
WLAN 802.11b	Top Edge	0	6	2437	20.00	19.95	1.012	101.16%	0.210	0.215	-
112 111 002.110	Top Edge	0	11	2462	20.00	19.93	1.012	101.62%	0.369	0.379	78
	Right Edge	0	6	2437	20.00	19.95	1.012	101.16%	0.065	0.067	-
Tx2	Left Edge	0	6	2437	20.00	19.95	1.012	101.16%	0.160	0.164	-
IAZ										245	
					Max. Rated Avg.	Measured				SAR over 1g /kg)	
Mode	Position	Distance	СН	Freq.	Power + Max.	Avg. Power	Duty cycle	Power	(۷۷	/kg)	Plot page
		(mm)		(MHz)	Tolerance (dBm)	(dBm)	scaling	scaling	Measured	Reported	
WLAN 802.11n	Back Surface	0	38	5190	18.00	17.95	1.036	101.16%	0.180	0.189	-
(40M)	Top Edge	0	38	5190	18.00	17.95	1.036	101.16%	0.517	0.542	79
5.2G	Right Edge	0	38	5190	18.00	17.95	1.036	101.16%	0.052	0.054	-
	Left Edge	0	38	5190	18.00	17.95	1.036	101.16%	0.308	0.323	-
Tx2											1
Mode	Position	Distance	СН	Freq.	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle	Power	Averaged SAF	R over 1g (W/kg)	Distance
wode	Position	(mm)	Сп	(MHz)	Tolerance (dBm)	(dBm)	scaling	scaling	Measured	Reported	Plot page
WLAN 802.11ac	Back Surface	0	58	5290	18.00	17.95	1.031	101.16%	0.210	0.219	-
(80M)	Top Edge	0	58	5290	18.00	17.95	1.031	101.16%	0.502	0.524	80
5.3G	Right Edge	0	58	5290	18.00	17.95	1.031	101.16%	0.045	0.047	-
	Left Edge	0	58	5290	18.00	17.95	1.031	101.16%	0.334	0.348	-
Tx2											
		Distance		Freq.	Max. Rated Avg.	Measured	Duty cycle	Power	Averaged SAF	R over 1g (W/kg)	
Mode	Position	(mm)	СН	(MHz)	Power + Max. Tolerance (dBm)	Avg. Power (dBm)	scaling	scaling	Measured	Reported	Plot page
	Back Surface	0	138	5690	18.00	17.95	1.031	101.16%	0.281	0.293	-
WLAN 802.11ac	Top Edge	0	106	5530	17.00	16.91	1.031	102.09%	0.685	0.721	-
(80M)	Top Edge	0	122	5610	18.00	17.86	1.031	103.28%	0.757	0.806	
5.6G	Top Edge	0	138	5690	18.00	17.95	1.031	101.16%	0.824	0.859	81
	Right Edge Left Edge	0	138 138	5690 5690	18.00 18.00	17.95 17.95	1.031	101.16% 101.16%	0.056 0.367	0.058	-
Repeat	Top Edge	0	138	5690	18.00	17.95	1.031	101.16%	0.367	0.826	-
Tx2	TOP Lage		130	3030	10.00	17.33	1.001	101.1070	0.732	0.020	
Mode	Position	Distance	CH	Freq.	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle	Power	Averaged SAF	Averaged SAR over 1g (W/kg)	
		(mm)		(MHz)	Tolerance (dBm)	(dBm)	scaling	scaling	Measured	Reported	Plot page
WLAN 802.11ac	Back Surface	0	155	5775	18.00	17.95	1.031	101.16%	0.426	0.444	-
(80M)	Top Edge	0	155	5775	18.00	17.95	1.031	101.16%	1.070	1.116	82
5.8G	Right Edge	0	155	5775	18.00	17.95	1.031	101.16%	0.074	0.077	-
Popost	Left Edge	0	155	5775	18.00	17.95	1.031	101.16%	0.418	0.436	-

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

Note:

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

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 Tx1 + WLAN 2.4GHz Tx2	Yes
WLAN 5GHz Tx2 + BT Tx1	Yes
WLAN 5GHz Tx1 + WLAN 5GHz Tx2	Yes
WLAN 5GHz Tx1 + WLAN 5GHz Tx2 + BT Tx1	Yes

Note:

- 1. Bluetooth and WLAN Aux share the same antenna path, and BT can transmit with WLAN Main simultaneously.
- 2. For 2.4/5GHz WLAN Main and Aux antennas, the maximum output power of each antenna during simultaneous transmission is the same with (or less than) that used in standalone transmission, and we used the sum of 1-g SAR provision in KDB447498D01 to exclude the simultaneous transmitted SAR measurement.

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SGS Taiwan Ltd.

台灣檢驗科技股份有限公司

No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號

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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:

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

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 (SAR1 + SAR2)^1.5/Ri, rounded to two decimal digits, and must be ≤ 0.04 for all antenna pairs in the configuration to qualify for 1-g SAR test exclusion.

SAR1 and SAR2 are the highest reported or estimated SAR for each antenna in the pair, and Ri 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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HONG-BO

Reported SAR								Scenario 2	Scenario 4	Scenario 5
		2	3	4	5	6	2+3	4+5	5+6	4+5+6
Exposure Pos	Exposure Position		2.4GHz WLAN Tx2	5GHz WLAN Tx1	5GHz WLAN Tx2	Bluetooth Tx1	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)
Back Surface	0	0.127	0.124	0.255	0.349	0.012	0.251	0.604	0.361	0.616
Top Edge	Top Edge 0		0.772	1.024	0.896	0.026	1.329	1.920	0.922	1.946
Right Edge 0		0.241	0.046	0.288	0.087	0.013	0.287	0.375	0.100	0.388
Left Edge	0	0.019	0.376	0.087	0.419	0.001	0.395	0.506	0.420	0.507

WNC

Reported SAR							Scenario 1	Scenario 2	Scenario 4	Scenario 5		
		2	3	4	5	6	2+3	4+5	5+6	4+5+6		
Exposure Pos	Exposure Position		2.4GHz WLAN Tx2	5GHz WLAN Tx1	5GHz WLAN Tx2	Bluetooth Tx1	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)		
Back Surface	0	0.178	0.173	0.192	0.444	0.021	0.351	0.636	0.465	0.657		
Top Edge	0	0.861	0.379	0.487	1.116	0.039	1.240	1.603	1.155	1.642		
Right Edge 0		0.508	0.067	0.151	0.077	0.022	0.575	0.228	0.099	0.250		
Left Edge	0	0.025	0.164	0.053	0.436	0.001	0.189	0.489	0.437	0.490		

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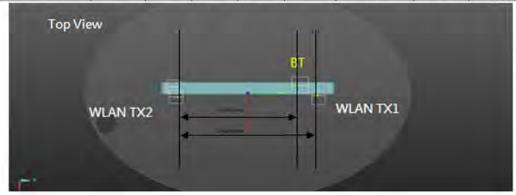
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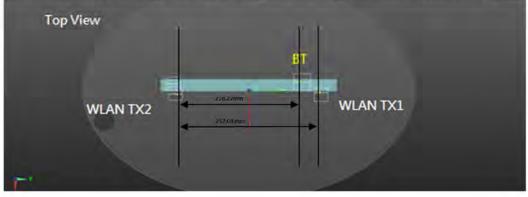
HONG-BO

				Scenar	io 2&5				
Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			ΣSAR	Peak Location	SPLSR	Simultaneous Transmission SAR
			x	y	z	(W/kg)	Separation Distance (mm)	SFLOR	Test
Top Edge	WLAN 5G Tx2	0.896	-12.80	-132,20	-5.56		-	1	-
	WLAN 5G Tx1	1.024	-3.60	127.80	4.95	1.920	2601.63	0.001	SPLSR ≤ 0.04, Not required
	WLAN 5G Tx1+Bluetooth	1.050	-11,80	89.80	4.83	1.946	2220.03	0.001	SPLSR ≤ 0.04, Not required



WNC

				Scenari	o 2&5				
Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			ΣSAR	Peak Location	SPLSR	Simultaneous Transmission SAR
			x	у	z	(W/kg)	Separation Distance (mm)	OI LOIK	Test
Top Edge	WLAN 5G Tx2	1.116	-8.80	-131.40	-5.53	10-10-	12 12		- 2
	WLAN 5G Tx1	0.487	3.20	125,40	-5.33	1.603	2570.80	0.001	SPLSR ≤ 0.04, Not required
	WLAN 5G Tx1+Bluetooth	0.526	-11.80	96.80	-5.22	1.642	2282.20	0.001	SPLSR ≤ 0.04, Not required



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4. Instruments List

Manufacturer	Device	Туре	Serial number	Date of last calibration	Date of next calibration
SPEAG	Dosimetric E-Field Probe	EX3DV4	3770	Apr.28,2021	Apr.27,2022
SPEAG	System Validation	D2450V2	727	Apr.14,2021	Apr.13,2022
OI EAG	Dipole	D5GHzV2	1023	Jan.27,2022	Jan.26,2023
SPEAG	Data acquisition Electronics	DAE4	856	Apr.23,2021	Apr.22,2022
SPEAG	Software	DASY52 52.10.4	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	1001	Jan.26,2022	Jan.25,2023
Agilent	Dual-directional coupler	772D	MY46151242	Aug.16,2021	Aug.15,2022
/ tgilont		778D	MY48220468	Aug.16,2021	Aug.15,2022
Agilent	Signal Generator	N5181A	MY50141235	May.30,2021	May.29,2022
Agilent	Power Meter	E4417A	MY51410006	Mar.23,2021	Mar.22,2022
Agilont	D 0	E0204U	MY51470001	Mar.23,2021	Mar.22,2022
Agilent	Power Sensor	E9301H	MY51470002	Mar.23,2021	Mar.22,2022
TECPEL	Digital thermometer	DTM-303A	TP130074	Apr.26,2021	Apr.25,2022

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5. Measurements

Date: 2022/3/9

Report No.: EN/2022/30006

WLAN 802.11b, Body, Top Edge, CH 11, 0mm, Tx1

Communication System: WLAN 2.45G; Frequency: 2462 MHz; Duty cycle= 1:1.012 Medium parameters used: f = 2462 MHz; $\sigma = 1.878 \text{ S/m}$; $\varepsilon_r = 38.099$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.0°C

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(7.67, 7.67, 7.67) @ 2462 MHz; Calibrated: 2021/4/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2021/4/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x101x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.762 W/kg

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

Reference Value = 2.005 V/m: Power Drift = 0.03 dB

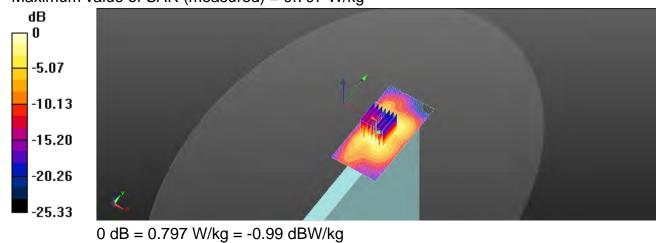
Peak SAR (extrapolated) = 1.32 W/kg

SAR(1 g) = 0.538 W/kg; SAR(10 g) = 0.231 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 49.3%

Maximum value of SAR (measured) = 0.797 W/kg



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Date: 2022/3/9

Report No.: EN/2022/30006

Bluetooth(GFSK), Body, Top Edge, CH 78, 0mm, Tx1

Communication System: Bluetooth; Frequency: 2480 MHz; Duty cycle= 1:1.13

Medium parameters used: f = 2480 MHz; $\sigma = 1.897$ S/m; $\epsilon_r = 38.021$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.0°C

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(7.67, 7.67, 7.67) @ 2480 MHz; Calibrated: 2021/4/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2021/4/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x101x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.0276 W/kg

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

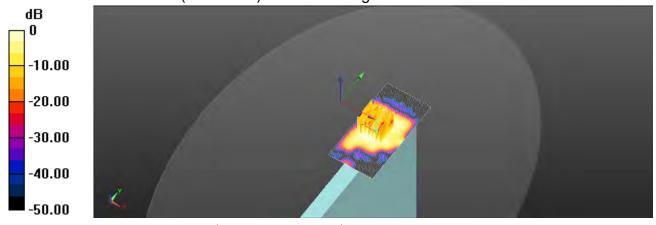
Reference Value = 2.579 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.0380 W/kg

SAR(1 g) = 0.017 W/kg; SAR(10 g) = 0.00663 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid Ratio of SAR at M2 to SAR at M1 = 37.5%

Maximum value of SAR (measured) = 0.0258 W/kg



0 dB = 0.0258 W/kg = -15.88 dBW/kg

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Date: 2022/3/10

Report No.: EN/2022/30006

WLAN 802.11n(40M) 5.2G, Body, Top Edge, CH 46, 0mm, Tx1

Communication System: WLAN 5G; Frequency: 5230 MHz; Duty cycle= 1:1.036 Medium parameters used: f = 5230 MHz; $\sigma = 4.543 \text{ S/m}$; $\epsilon_r = 36.977$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(5.61, 5.61, 5.61) @ 5230 MHz; Calibrated: 2021/4/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2021/4/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x121x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.945 W/kg

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

Reference Value = 2.225 V/m: Power Drift = -0.13 dB

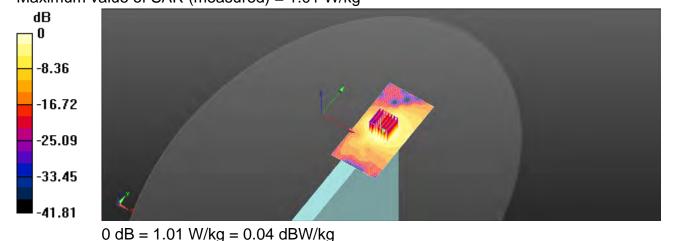
Peak SAR (extrapolated) = 1.96 W/kg

SAR(1 g) = 0.522 W/kg; SAR(10 g) = 0.184 W/kg

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

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

Maximum value of SAR (measured) = 1.01 W/kg



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Date: 2022/3/10

Report No. :EN/2022/30006

WLAN 802.11ac(80M) 5.3G, Body, Top Edge, CH 58, 0mm, Tx1

Communication System: WLAN 5G; Frequency: 5290 MHz; Duty cycle= 1:1.031 Medium parameters used: f = 5290 MHz; $\sigma = 4.617$ S/m; $\epsilon_r = 36.861$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(5.61, 5.61, 5.61) @ 5290 MHz; Calibrated: 2021/4/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2021/4/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x121x1): Interpolated grid: dx=10 mm, dy=10 mm

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

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

Reference Value = 3.472 V/m; Power Drift = 0.13 dB

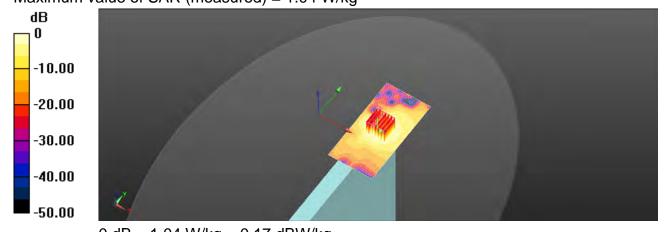
Peak SAR (extrapolated) = 2.08 W/kg

SAR(1 g) = 0.537 W/kg; SAR(10 g) = 0.188 W/kg

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

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

Maximum value of SAR (measured) = 1.04 W/kg



0 dB = 1.04 W/kg = 0.17 dBW/kg

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Date: 2022/3/11

Report No. :EN/2022/30006

WLAN 802.11ac(80M) 5.6G, Body, Top Edge, CH 138, 0mm, Tx1

Communication System: WLAN 5G; Frequency: 5690 MHz; Duty cycle= 1:1.031 Medium parameters used: f = 5690 MHz; $\sigma = 5.097 \text{ S/m}$; $\epsilon_r = 35.501$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.5°C; Liquid temperature: 21.9°C

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(4.95, 4.95, 4.95) @ 5690 MHz; Calibrated: 2021/4/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2021/4/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x121x1): Interpolated grid: dx=10 mm, dy=10 mm

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

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

Reference Value = 2.121 V/m: Power Drift = -0.12 dB

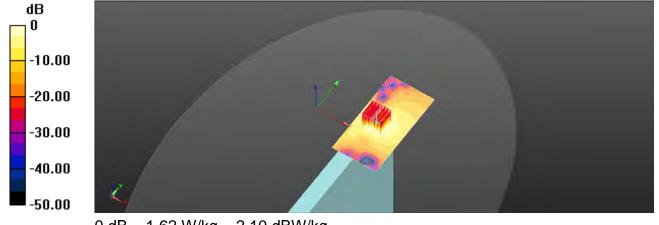
Peak SAR (extrapolated) = 3.60 W/kg

SAR(1 g) = 0.813 W/kg; SAR(10 g) = 0.262 W/kg

Smallest distance from peaks to all points 3 dB below = 4.6 mm

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

Maximum value of SAR (measured) = 1.62 W/kg



0 dB = 1.62 W/kg = 2.10 dBW/kg

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Date: 2022/3/11

Report No. :EN/2022/30006

WLAN 802.11ac(80M) 5.8G, Body, Top Edge, CH 155, 0mm, Tx1

Communication System: WLAN 5G; Frequency: 5775 MHz; Duty cycle= 1:1.031 Medium parameters used: f = 5775 MHz; $\sigma = 5.205$ S/m; $\epsilon_r = 35.258$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 21.7°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(4.95, 4.95, 4.95) @ 5775 MHz; Calibrated: 2021/4/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2021/4/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x121x1): Interpolated grid: dx=10 mm, dy=10 mm

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

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

Reference Value = 3.153 V/m; Power Drift = -0.15 dB

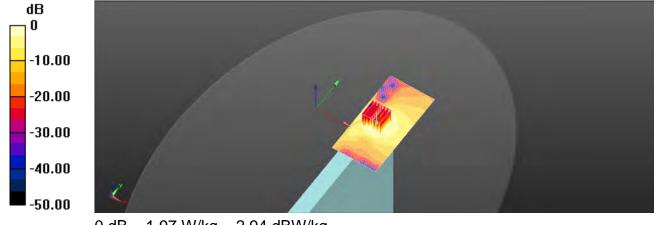
Peak SAR (extrapolated) = 4.49 W/kg

SAR(1 g) = 0.984 W/kg; SAR(10 g) = 0.316 W/kg

Smallest distance from peaks to all points 3 dB below = 4.7 mm

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

Maximum value of SAR (measured) = 1.97 W/kg



0 dB = 1.97 W/kg = 2.94 dBW/kg

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Date: 2022/3/9

Report No. :EN/2022/30006

WLAN 802.11b, Body, Top Edge, CH 11, 0mm, Tx2

Communication System: WLAN 2.45G; Frequency: 2462 MHz; Duty cycle= 1:1.012 Medium parameters used: f = 2462 MHz; $\sigma = 1.878 \text{ S/m}$; $\varepsilon_r = 38.099$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.0°C

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(7.67, 7.67, 7.67) @ 2462 MHz; Calibrated: 2021/4/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2021/4/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x101x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 1.09 W/kg

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

Reference Value = 2.324 V/m: Power Drift = 0.11 dB

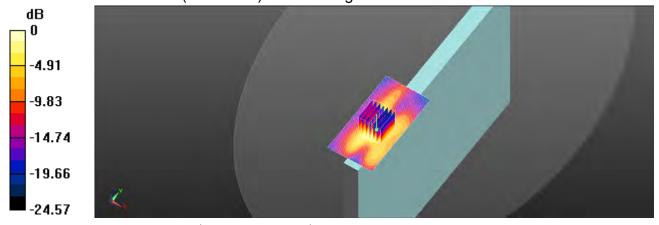
Peak SAR (extrapolated) = 1.76 W/kg

SAR(1 g) = 0.751 W/kg; SAR(10 g) = 0.330 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 47.7%

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



0 dB = 1.14 W/kg = 0.57 dBW/kg

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Date: 2022/3/10

Report No. :EN/2022/30006

WLAN 802.11n(40M) 5.2G, Body, Top Edge, CH 38, 0mm, Tx2

Communication System: WLAN 5G; Frequency: 5190 MHz; Duty cycle= 1:1.036 Medium parameters used: f = 5190 MHz; $\sigma = 4.486$ S/m; $\epsilon_r = 37.289$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(5.61, 5.61, 5.61) @ 5190 MHz; Calibrated: 2021/4/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2021/4/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x111x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.32 W/kg

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

Reference Value = 2.124 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 2.38 W/kg

SAR(1 g) = 0.735 W/kg; SAR(10 g) = 0.260 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 60.5%

Maximum value of SAR (measured) = 1.34 W/kg

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

Reference Value = 2.124 V/m; Power Drift = -0.13 dB

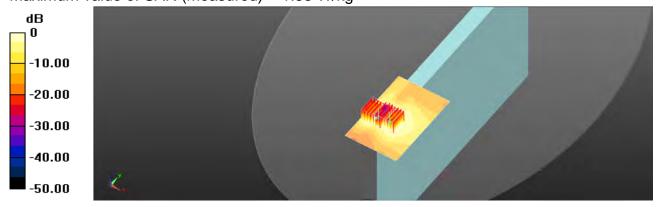
Peak SAR (extrapolated) = 2.59 W/kg

SAR(1 g) = 0.702 W/kg; SAR(10 g) = 0.219 W/kg

Smallest distance from peaks to all points 3 dB below = 4.8 mm

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

Maximum value of SAR (measured) = 1.33 W/kg



0 dB = 1.33 W/kg = 1.24 dBW/kg

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Date: 2022/3/10

Report No. :EN/2022/30006

WLAN 802.11ac(80M) 5.3G, Body, Top Edge, CH 58, 0mm, Tx2

Communication System: WLAN 5G; Frequency: 5290 MHz; Duty cycle= 1:1.031 Medium parameters used: f = 5290 MHz; $\sigma = 4.617 \text{ S/m}$; $\epsilon_r = 36.861$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(5.61, 5.61, 5.61) @ 5290 MHz; Calibrated:
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2021/4/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x111x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.54 W/kg

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

Reference Value = 2.566 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 2.83 W/kg

SAR(1 g) = 0.833 W/kg; SAR(10 g) = 0.287 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 60.5%

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

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

Reference Value = 2.566 V/m; Power Drift = 0.12 dB

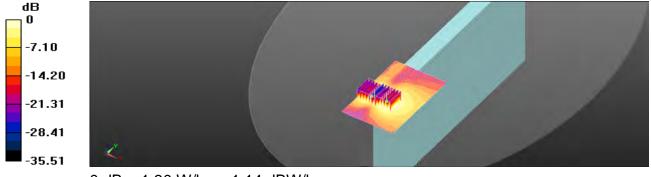
Peak SAR (extrapolated) = 2.48 W/kg

SAR(1 g) = 0.644 W/kg; SAR(10 g) = 0.196 W/kg

Smallest distance from peaks to all points 3 dB below = 5.3 mm

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

Maximum value of SAR (measured) = 1.30 W/kg



0 dB = 1.30 W/kg = 1.14 dBW/kg

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Report No. :EN/2022/30006

WLAN 802.11ac(80M) 5.6G, Body, Top Edge, CH 138, 0mm, Tx2

Communication System: WLAN 5G; Frequency: 5690 MHz; Duty cycle= 1:1.031 Medium parameters used: f = 5690 MHz; $\sigma = 5.097 \text{ S/m}$; $\epsilon_r = 35.501$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.5°C; Liquid temperature: 21.9°C

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(4.95, 4.95, 4.95) @ 5690 MHz; Calibrated:
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2021/4/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x111x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.53 W/kg

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

Reference Value = 2.692 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 3.23 W/kg

SAR(1 g) = 0.859 W/kg; SAR(10 g) = 0.286 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 57.3%

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

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

Reference Value = 2.692 V/m; Power Drift = 0.15 dB

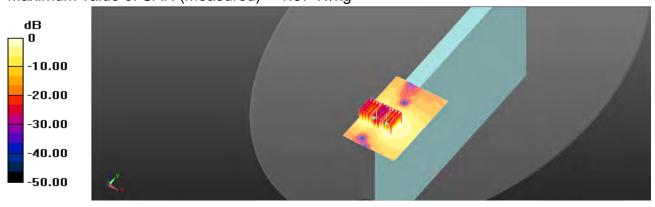
Peak SAR (extrapolated) = 3.63 W/kg

SAR(1 g) = 0.858 W/kg; SAR(10 g) = 0.252 W/kg

Smallest distance from peaks to all points 3 dB below = 4.9 mm

Ratio of SAR at M2 to SAR at M1 = 55%

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



0 dB = 1.67 W/kg = 2.23 dBW/kg

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Date: 2022/3/11

Report No. :EN/2022/30006

WLAN 802.11ac(80M) 5.8G, Body, Top Edge, CH 155, 0mm, Tx2

Communication System: WLAN 5G; Frequency: 5775 MHz; Duty cycle= 1:1.031 Medium parameters used: f = 5775 MHz; $\sigma = 5.205$ S/m; $\epsilon_r = 35.258$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 21.7°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(4.95, 4.95, 4.95) @ 5775 MHz; Calibrated: 2021/4/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2021/4/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x111x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.34 W/kg

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

Reference Value = 3.569 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 2.89 W/kg

SAR(1 g) = 0.746 W/kg; SAR(10 g) = 0.252 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 55.6%

Maximum value of SAR (measured) = 1.49 W/kg

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

Reference Value = 3.569 V/m; Power Drift = 0.11 dB

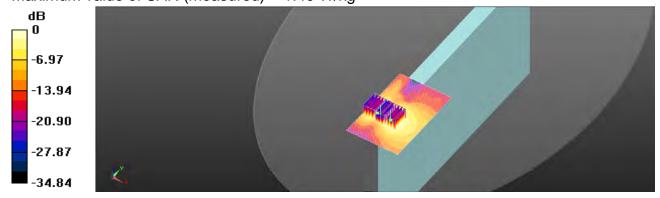
Peak SAR (extrapolated) = 3.09 W/kg

SAR(1 g) = 0.711 W/kg; SAR(10 g) = 0.206 W/kg

Smallest distance from peaks to all points 3 dB below = 4.6 mm

Ratio of SAR at M2 to SAR at M1 = 54.2%

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



0 dB = 1.40 W/kg = 1.46 dBW/kg

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Report No. :EN/2022/30006

WLAN 802.11b, Body, Top Edge, CH 6, 0mm, Tx1

Communication System: WLAN 2.45G; Frequency: 2437 MHz; Duty cycle= 1: 1.012 Medium parameters used: f = 2437 MHz; $\sigma = 1.85$ S/m; $\varepsilon_r = 38.177$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.0°C

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(7.67, 7.67, 7.67) @ 2437 MHz; Calibrated: 2021/4/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2021/4/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x101x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 1.22 W/kg

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

Reference Value = 2.682 V/m: Power Drift = 0.16 dB

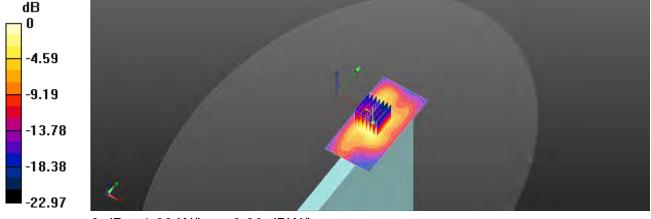
Peak SAR (extrapolated) = 1.98 W/kg

SAR(1 g) = 0.837 W/kg; SAR(10 g) = 0.362 W/kg

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

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

Maximum value of SAR (measured) = 1.23 W/kg



0 dB = 1.23 W/kg = 0.90 dBW/kg

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Report No.: EN/2022/30006

Bluetooth(GFSK), Body, Top Edge, CH 78, 0mm, Tx1

Communication System: Bluetooth; Frequency: 2480 MHz; Duty cycle= 1:1.13

Medium parameters used: f = 2480 MHz; $\sigma = 1.897$ S/m; $\epsilon_r = 38.021$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.0°C

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(7.67, 7.67, 7.67) @ 2480 MHz; Calibrated: 2021/4/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2021/4/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x101x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.0359 W/kg

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

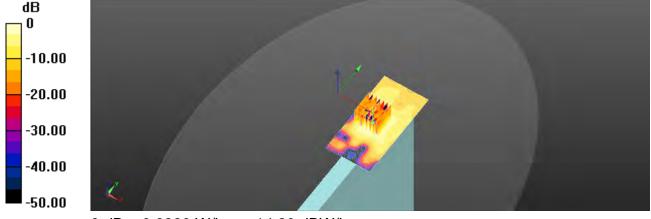
Reference Value = 2.544 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.0650 W/kg

SAR(1 g) = 0.026 W/kg; SAR(10 g) = 0.011 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid Ratio of SAR at M2 to SAR at M1 = 47.5%

Maximum value of SAR (measured) = 0.0380 W/kg



0 dB = 0.0380 W/kg = -14.20 dBW/kg

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Date: 2022/3/10

Report No.: EN/2022/30006

WLAN 802.11n(40M) 5.2G, Body, Top Edge, CH 46, 0mm, Tx1

Communication System: WLAN 5G; Frequency: 5230 MHz; Duty cycle= 1:1.036 Medium parameters used: f = 5230 MHz; $\sigma = 4.543$ S/m; $\epsilon_r = 36.977$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(5.61, 5.61, 5.61) @ 5230 MHz; Calibrated: 2021/4/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2021/4/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x121x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.750 W/kg

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

Reference Value = 2.677 V/m; Power Drift = 0.11 dB

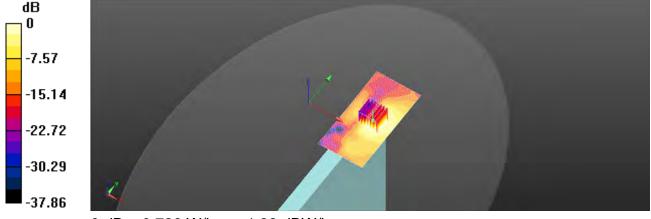
Peak SAR (extrapolated) = 1.39 W/kg

SAR(1 g) = 0.403 W/kg; SAR(10 g) = 0.147 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 59.7%

Maximum value of SAR (measured) = 0.726 W/kg



0 dB = 0.726 W/kg = -1.39 dBW/kg

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Report No. :EN/2022/30006

WLAN 802.11ac(80M) 5.3G, Body, Top Edge, CH 58, 0mm, Tx1

Communication System: WLAN 5G; Frequency: 5290 MHz; Duty cycle= 1:1.031 Medium parameters used: f = 5290 MHz; $\sigma = 4.617$ S/m; $\epsilon_r = 36.861$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(5.61, 5.61, 5.61) @ 5290 MHz; Calibrated: 2021/4/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2021/4/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x121x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.784 W/kg

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

Reference Value = 2.143 V/m; Power Drift = 0.13 dB

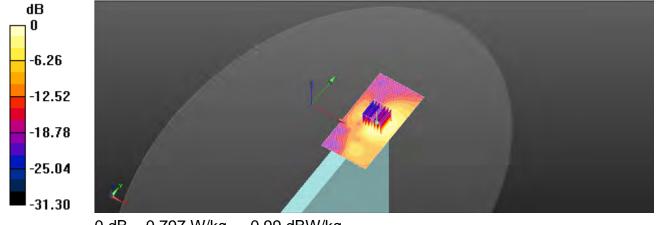
Peak SAR (extrapolated) = 1.56 W/kg

SAR(1 g) = 0.445 W/kg; SAR(10 g) = 0.167 W/kg

Smallest distance from peaks to all points 3 dB below = 4.6 mm

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

Maximum value of SAR (measured) = 0.797 W/kg



0 dB = 0.797 W/kg = -0.99 dBW/kg

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Report No. :EN/2022/30006

WLAN 802.11ac(80M) 5.6G, Body, Top Edge, CH 138, 0mm, Tx1

Communication System: WLAN 5G; Frequency: 5690 MHz; Duty cycle= 1:1.031 Medium parameters used: f = 5690 MHz; $\sigma = 5.097 \text{ S/m}$; $\epsilon_r = 35.501$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.5°C; Liquid temperature: 21.9°C

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(4.95, 4.95, 4.95) @ 5690 MHz; Calibrated: 2021/4/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2021/4/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x121x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.970 W/kg

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

Reference Value = 2.652 V/m; Power Drift = 0.14 dB

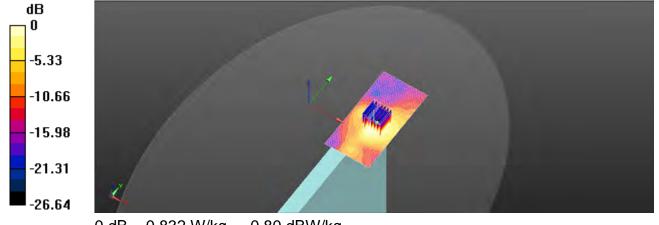
Peak SAR (extrapolated) = 1.78 W/kg

SAR(1 g) = 0.467 W/kg; SAR(10 g) = 0.179 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 54.3%

Maximum value of SAR (measured) = 0.832 W/kg



0 dB = 0.832 W/kg = -0.80 dBW/kg

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WLAN 802.11ac(80M) 5.8G, Body, Top Edge, CH 155, 0mm, Tx1

Communication System: WLAN 5G; Frequency: 5775 MHz; Duty cycle= 1:1.031 Medium parameters used: f = 5775 MHz; $\sigma = 5.205$ S/m; $\varepsilon_r = 35.258$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 21.7°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(4.95, 4.95, 4.95) @ 5775 MHz; Calibrated: 2021/4/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2021/4/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x121x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.849 W/kg

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

Reference Value = 3.315 V/m: Power Drift = 0.12 dB

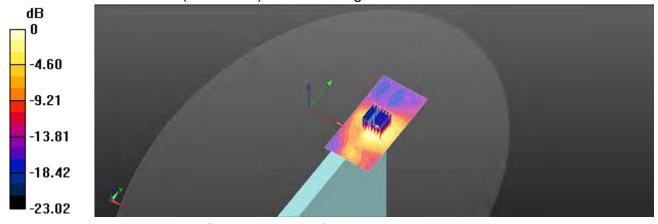
Peak SAR (extrapolated) = 1.64 W/kg

SAR(1 g) = 0.406 W/kg; SAR(10 g) = 0.158 W/kg

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

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

Maximum value of SAR (measured) = 0.748 W/kg



0 dB = 0.748 W/kg = -1.26 dBW/kg

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WLAN 802.11b, Body, Top Edge, CH 11, 0mm, Tx2

Communication System: WLAN 2.45G; Frequency: 2462 MHz; Duty cycle= 1:1.012 Medium parameters used: f = 2462 MHz; $\sigma = 1.878$ S/m; $\epsilon_r = 38.099$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.0°C

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(7.67, 7.67, 7.67) @ 2462 MHz; Calibrated: 2021/4/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2021/4/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x101x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.553 W/kg

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

Reference Value = 3.315 V/m; Power Drift = -0.19 dB

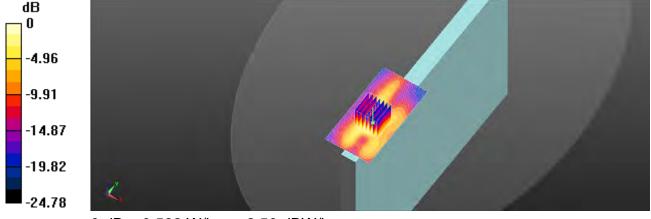
Peak SAR (extrapolated) = 0.852 W/kg

SAR(1 g) = 0.369 W/kg; SAR(10 g) = 0.161 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 47.8%

Maximum value of SAR (measured) = 0.562 W/kg



0 dB = 0.562 W/kg = -2.50 dBW/kg

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Report No. :EN/2022/30006

WLAN 802.11n(40M) 5.2G, Body, Top Edge, CH 38, 0mm, Tx2

Communication System: WLAN 5G; Frequency: 5190 MHz; Duty cycle= 1:1.036 Medium parameters used: f = 5190 MHz; $\sigma = 4.486$ S/m; $\epsilon_r = 37.289$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(5.61, 5.61, 5.61) @ 5190 MHz; Calibrated: 2021/4/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2021/4/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x111x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.01 W/kg

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

Reference Value = 2.412 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 1.94 W/kg

SAR(1 g) = 0.517 W/kg; SAR(10 g) = 0.153 W/kg

Smallest distance from peaks to all points 3 dB below = 5.6 mm

Ratio of SAR at M2 to SAR at M1 = 60.9%

Maximum value of SAR (measured) = 1.03 W/kg

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

Reference Value = 2.412 V/m; Power Drift = 0.17 dB

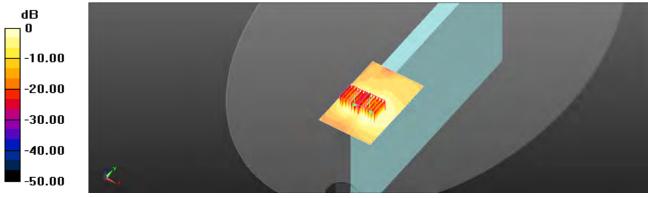
Peak SAR (extrapolated) = 1.49 W/kg

SAR(1 g) = 0.487 W/kg; SAR(10 g) = 0.189 W/kg

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

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

Maximum value of SAR (measured) = 0.866 W/kg



0 dB = 0.866 W/kg = -0.62 dBW/kg

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Date: 2022/3/10

Report No. :EN/2022/30006

WLAN 802.11ac(80M) 5.3G, Body, Top Edge, CH 58, 0mm, Tx2

Communication System: WLAN 5G; Frequency: 5290 MHz; Duty cycle= 1:1.031 Medium parameters used: f = 5290 MHz; $\sigma = 4.617$ S/m; $\epsilon_r = 36.861$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(5.61, 5.61, 5.61) @ 5290 MHz; Calibrated: 2021/4/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2021/4/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x101x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.789 W/kg

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

Reference Value = 3.121 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 1.48 W/kg

SAR(1 g) = 0.465 W/kg; SAR(10 g) = 0.174 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 62.3%

Maximum value of SAR (measured) = 0.834 W/kg

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

Reference Value = 3.121 V/m; Power Drift = 0.19 dB

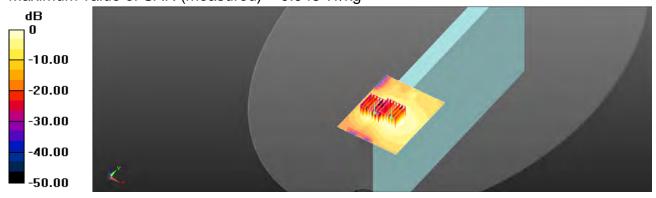
Peak SAR (extrapolated) = 2.01 W/kg

SAR(1 g) = 0.502 W/kg; SAR(10 g) = 0.145 W/kg

Smallest distance from peaks to all points 3 dB below = 4.6 mm

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

Maximum value of SAR (measured) = 0.948 W/kg



0 dB = 0.948 W/kg = -0.23 dBW/kg

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Date: 2022/3/11

Report No. :EN/2022/30006

WLAN 802.11ac(80M) 5.6G, Body, Top Edge, CH 138, 0mm, Tx2

Communication System: WLAN 5G; Frequency: 5690 MHz; Duty cycle= 1:1.031 Medium parameters used: f = 5690 MHz; $\sigma = 5.097$ S/m; $\epsilon_r = 35.501$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 21.5°C; Liquid temperature: 21.9°C

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(4.95, 4.95, 4.95) @ 5690 MHz; Calibrated: 2021/4/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2021/4/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x101x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.32 W/kg

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

Reference Value = 3.168 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 3.59 W/kg

SAR(1 g) = 0.824 W/kg; SAR(10 g) = 0.235 W/kg

Smallest distance from peaks to all points 3 dB below = 5.2 mm

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

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

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

Reference Value = 3.168 V/m; Power Drift = 0.13 dB

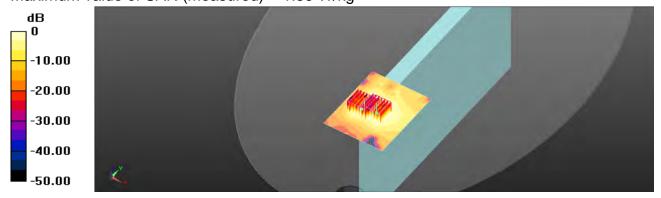
Peak SAR (extrapolated) = 2.98 W/kg

SAR(1 g) = 0.720 W/kg; SAR(10 g) = 0.251 W/kg

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

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

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



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

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Date: 2022/3/11

Report No. :EN/2022/30006

WLAN 802.11n(80M) 5.8G, Body, Top Edge, CH 155, 0mm, Tx2

Communication System: WLAN 5G; Frequency: 5775 MHz; Duty cycle= 1:1.031 Medium parameters used: f = 5775 MHz; $\sigma = 5.205$ S/m; $\epsilon_r = 35.258$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 21.7°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(4.95, 4.95, 4.95) @ 5775 MHz; Calibrated: 2021/4/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2021/4/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x101x1): Interpolated grid: dx=10 mm, dy=10 mm

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

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

Reference Value = 2.533 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 3.40 W/kg

SAR(1 g) = 0.916 W/kg; SAR(10 g) = 0.334 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 57.6%

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

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

Reference Value = 2.533 V/m; Power Drift = -0.16 dB

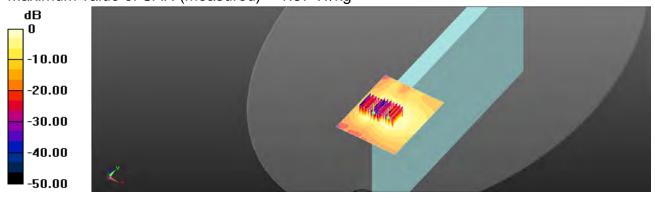
Peak SAR (extrapolated) = 4.33 W/kg

SAR(1 g) = 1.07 W/kg; SAR(10 g) = 0.320 W/kg

Smallest distance from peaks to all points 3 dB below = 4.9 mm

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

Maximum value of SAR (measured) = 1.87 W/kg



0 dB = 1.87 W/kg = 2.72 dBW/kg

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6. SAR System Performance Verification

Date: 2022/3/9

Report No. :EN/2022/30006 **Dipole 2450 MHz, SN:727**

Communication System: CW; Frequency: 2450 MHz; Duty cycle= 1:1

Medium parameters used: f = 2450 MHz; $\sigma = 1.865 \text{ S/m}$; $\varepsilon_r = 38.148$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.0°C

DASY5 Configuration:

Probe: EX3DV4 - SN3770; ConvF(7.67, 7.67, 7.67) @ 2450 MHz; Calibrated: 2021/4/28

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn856; Calibrated: 2021/4/23

Phantom: ELI

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

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

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

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

Reference Value = 106.6 V/m; Power Drift = 0.04 dB

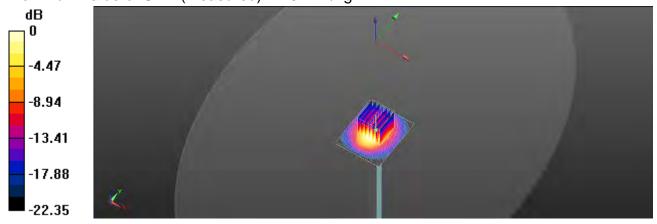
Peak SAR (extrapolated) = 28.0 W/kg

SAR(1 g) = 13.7 W/kg; SAR(10 g) = 6.36 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 49.3%

Maximum value of SAR (measured) = 20.7 W/kg



0 dB = 20.7 W/kg = 13.16 dBW/kg

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Date: 2022/3/10

Report No. :EN/2022/30006 **Dipole 5250 MHz, SN:1023**

Communication System: CW; Frequency: 5250 MHz; Duty cycle= 1:1

Medium parameters used: f = 5250 MHz; $\sigma = 4.574 \text{ S/m}$; $\epsilon_r = 36.917$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.8°C

DASY5 Configuration:

Probe: EX3DV4 - SN3770; ConvF(5.61, 5.61, 5.61) @ 5250 MHz; Calibrated: 2021/4/28

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn856; Calibrated: 2021/4/23

Phantom: ELI

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

Area Scan (51x51x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 16.5 W/kg

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

Reference Value = 59.68 V/m; Power Drift = 0.05 dB

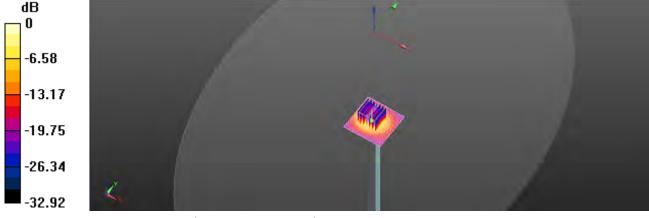
Peak SAR (extrapolated) = 30.4 W/kg

SAR(1 g) = 7.91 W/kg; SAR(10 g) = 2.3 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 57.1%

Maximum value of SAR (measured) = 16.1 W/kg



0 dB = 16.1 W/kg = 12.07 dBW/kg

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Date: 2022/3/11

Report No. :EN/2022/30006 **Dipole 5600 MHz, SN:1023**

Communication System: CW; Frequency: 5600 MHz; Duty cycle= 1:1

Medium parameters used: f = 5600 MHz; $\sigma = 4.989 \text{ S/m}$; $\epsilon_r = 35.822$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.5°C; Liquid temperature: 21.9°C

DASY5 Configuration:

Probe: EX3DV4 - SN3770; ConvF(4.9, 4.9, 4.9) @ 5600 MHz; Calibrated: 2021/4/28

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn856; Calibrated: 2021/4/23

Phantom: ELI

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

Area Scan (61x61x1): 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 = 60.68 V/m; Power Drift = -0.13 dB

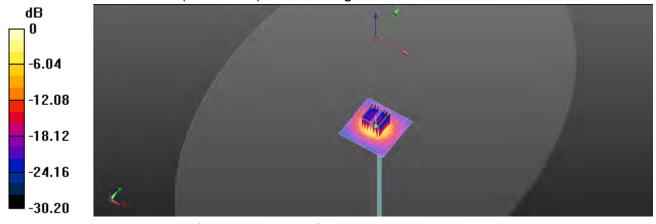
Peak SAR (extrapolated) = 31.4 W/kg

SAR(1 g) = 8.04 W/kg; SAR(10 g) = 2.34 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 55.7%

Maximum value of SAR (measured) = 16.5 W/kg



0 dB = 16.5 W/kg = 12.17 dBW/kg

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Date: 2022/3/11

Report No. :EN/2022/30006 **Dipole 5750 MHz, SN:1023**

Communication System: CW; Frequency: 5750 MHz; Duty cycle= 1:1

Medium parameters used: f = 5750 MHz; $\sigma = 5.168 \text{ S/m}$; $\varepsilon_r = 35.374$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.7°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(4.95, 4.95, 4.95) @ 5750 MHz; Calibrated: 2021/4/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2021/4/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x61x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 15.8 W/kg

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

Reference Value = 58.77 V/m; Power Drift = -0.09 dB

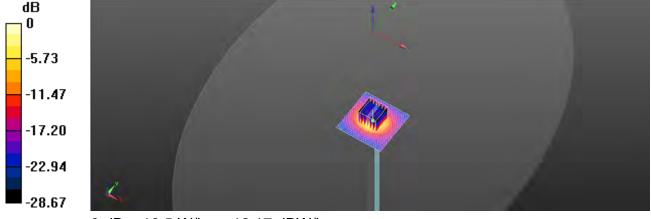
Peak SAR (extrapolated) = 32.0 W/kg

SAR(1 g) = 7.7 W/kg; SAR(10 g) = 2.24 W/kg

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

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

Maximum value of SAR (measured) = 16.5 W/kg



0 dB = 16.5 W/kg = 12.17 dBW/kg

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7. Uncertainty Budget

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

A	С	D	е		f	g	h=c * f / e	i=c * g / e	k
Source of Uncertainty	Tolerance/ Uncertainty	Probability Distributio	Div	Div Value	ci (1g)	ci (10g)	Standard uncertainty	Standard uncertainty	vi, or Veff
Measurement system									
Probe calibration	6.55%	N	1	1	1	1	6.55%	6.55%	œ
Isotropy , Axial	3.50%	R	√3	1.732	1	1	2.02%	2.02%	œ
Isotropy, Hemispherical	9.60%	R	√3	1.732	1	1	5.54%	5.54%	œ
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%	œ
Linearity	4.70%	R	√3	1.732	1	1	2.71%	2.71%	œ
Detection Limits	1.00%	R	√3	1.732	1	1	0.58%	0.58%	œ
Readout Electronics	0.30%	N	1	1	1	1	0.30%	0.30%	œ
Response time	0.80%	R	√3	1.732	1	1	0.46%	0.46%	œ
Integration Time	2.60%	R	√3	1.732	1	1	1.50%	1.50%	8
Measurement drift (class A evaluation)	1.75%	R	√3	1.732	1	1	1.01%	1.01%	œ
RF ambient condition - noise	3.00%	R	√3	1.732	1	1	1.73%	1.73%	œ
RF ambient conditions - reflections	3.00%	R	√3	1.732	1	1	1.73%	1.73%	œ
Probe positioner Mechanical restrictions	0.40%	R	√3	1.732	1	1	0.23%	0.23%	œ
Probe Positioning with respect to phantom shell	2.90%	R	√3	1.732	1	1	1.67%	1.67%	œ
Post-processing	1.00%	R	√3	1.732	1	1	0.58%	0.58%	œ
Max SAR Eval	1.00%	R	√3	1.732	1	1	0.58%	0.58%	œ
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%	œ
Phantom and Setup									
Phantom Uncertainty	4.00%	R	√3	1.732	1	1	2.31%	2.31%	œ
Liquid permittivity (mea.)	3.55%	N	1	1	0.64	0.43	2.27%	1.53%	М
Liquid Conductivity (mea.)	3.52%	N	1	1	0.6	0.49	2.11%	1.72%	М
Combined standard uncertainty		RSS					12.12%	11.93%	
Expant uncertainty (95% confidence interval), K=2							24.24%	23.86%	

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

A	С	D	е		f	g	h=c * f / e	i=c * g / e	k
Source of Uncertainty	Tolerance/ Uncertainty	Probability Distributio	Div	Div Value	ci (1g)	ci (10g)	Standard uncertainty	Standard uncertainty	vi, or Veff
Measurement system									
Probe calibration	6.00%	N	1	1	1	1	6.00%	6.00%	8
Isotropy , Axial	3.50%	R	√3	1.732	1	1	2.02%	2.02%	8
Isotropy, Hemispherical	9.60%	R	√3	1.732	1	1	5.54%	5.54%	∞
Modulation Response	2.40%	R	√3	1.732	1	1	1.40%	1.40%	8
Boundary Effect	1.00%	R	√3	1.732	1	1	0.58%	0.58%	8
Linearity	4.70%	R	√3	1.732	1	1	2.71%	2.71%	8
Detection Limits	1.00%	R	√3	1.732	1	1	0.58%	0.58%	8
Readout Electronics	0.30%	N	1	1	1	1	0.30%	0.30%	8
Response time	0.80%	R	√3	1.732	1	1	0.46%	0.46%	8
Integration Time	2.60%	R	√3	1.732	1	1	1.50%	1.50%	8
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%	8
RF ambient conditions - reflections	3.00%	R	√3	1.732	1	1	1.73%	1.73%	8
Probe positioner Mechanical restrictions	0.40%	R	√3	1.732	1	1	0.23%	0.23%	8
Probe Positioning with respect to phantom shell	2.90%	R	√3	1.732	1	1	1.67%	1.67%	8
Post-processing	1.00%	R	√3	1.732	1	1	0.58%	0.58%	8
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.)	2.91%	N	1	1	0.64	0.43	1.86%	1.25%	М
Liquid Conductivity (mea.)	3.61%	N	1	1	0.6	0.49	2.17%	1.77%	М
Combined standard uncertainty		RSS					11.77%	11.61%	
Expant uncertainty (95% confidence interval), K=2							23.54%	23.22%	

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Appendixes

Refer to separated files for the following appendixes.

EN202230006 SAR_Appendix A Photographs

EN202230006 SAR_Appendix B DAE & Probe Cal. Certificate

EN202230006 SAR_Appendix C Phantom Description & Dipole Cal. Certificate

- End of report -

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