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SAR TEST REPORT





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

Notebook Computer **Product Name**

acer **Brand Name** N22Q1 Model No.

Acer Incorporated **Applicant**

8F., No. 88, Sec. 1, Xintai 5th Rd., Xizhi, New Taipei City

22181, Taiwan (R.O.C)

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

FCC ID HLZAX201NG **Date of Receipt** Feb. 22, 2022

Date of Test(s) Mar. 27, 2022 ~ Apr. 01, 2022

Date of Issue Apr. 08, 2022

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

Remarks:

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

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Signed on behalf of SGS

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

Date: Apr. 08, 2022

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Revision History

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

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

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0. Guidance applied

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

IEEE/ANSI C95.1-1992

IEEE 1528-2013

KDB248227D01v02r02

KDB865664D01v01r04

KDB865664D02v01r02

KDB447498D01v06

KDB616217D04v01r02

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1. General Information

1.1 Testing Laboratory

000 T : 1/1 0						
SGS Taiwan Ltd. Cent	SGS Taiwan Ltd. Central RF Lab					
No. 2, Keji 1st Rd., Guishan Township, Taoyuan County, 33383, Taiwan						
FCC Designation Number TW0028						
Tel	+886-2-2299-3279					
Fax +886-2-2298-0488						
Internet	http://www.tw.sgs.com/					

1.2 Details of Applicant

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

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1.3 Description of EUT

General Information of Host:

General information of nost.							
Equipment Under Test	Notebook Comp	outer					
Brand Name	acer						
Model No.	N22Q1						
Integrated Module		rand Name: Intel lodel Name: AX201NGW					
FCC ID	HLZAX201NG						
Mode of Operation	⊠WLAN802.11 ⊠Bluetooth	⊠WLAN802.11 ⊠Bluetooth					
Duty Cycle	WLAN802.11	Refer to page 29-32					
Duty Cycle	Bluetooth	77.2%					
TX Frequency Range (MHz)	WLAN	2412 ~ 2472, 5180 ~ 5240, 5260 ~ 5320, 5500 ~ 5720, 5745 ~ 5825					
(*****:2)	Bluetooth	2402 ~ 2480					

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

Notebook mode

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

Tablet mode

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

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WLAN conducted power table:

Notebook mode

		Main	(Chain B)			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		1	2412		19.50	19.41
	802.11b	6	2437	1Mbps	20.00	19.92
		11	2462		20.00	19.99
		1	2412		17.00	16.92
	802.11g	6	2437	6Mbps	20.00	19.88
		11	2462		17.50	16.38
	802.11n20-HT0	1	2412		17.00	16.85
		6	2437	MCS0	20.00	19.77
		11	2462		16.00	15.76
	802.11ac20-VHT0	1	2412	MCS0	17.00	16.66
		6	2437		20.00	19.71
2.45GHz		11	2462		16.00	15.72
2.43002		1	2412		17.00	16.76
	802.11ax20-HE0	6	2437	MCS0	20.00	19.70
		11	2462		16.00	15.86
		3	2422		17.50	17.37
	802.11n40-HT0	6	2437	MCS0	20.00	19.69
		9	2452		16.00	15.58
		3	2422		17.50	17.24
	802.11ac40-VHT0	6	2437	MCS0	20.00	19.89
		9	2452]	16.00	15.89
		3	2422		16.50	16.30
	802.11ax40-HE0	6	2437	MCS0	16.50	16.36
		9	2452		16.00	15.81

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		Main	(Chair D)			
		iviain	(Chain B)			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		36	5180		18.00	17.69
	000 44-	40	5200	CM // comme	18.00	17.63
	802.11a	44	5220	- 6Mbps	18.00	17.71
		48	5240		18.00	17.78
		36	5180		18.00	17.66
	000 44=00 LITO	40	5200	MOCO	18.00	17.85
	802.11n20-HT0	44	5220	MCS0	18.00	17.88
		48	5240		18.00	17.82
	802.11ac20-VHT0	36	5180	MCS0	18.00	17.74
		40	5200		18.00	17.59
		44	5220		18.00	17.77
		48	5240		18.00	17.75
5.15-5.25 GHz		36	5180		18.00	17.67
5.15-5.25 GHZ	802.11ax20-HE0	40	5200	MCS0	18.00	17.64
	002.11ax20-n=0	44	5220		18.00	17.68
		48	5240		18.00	17.65
	802.11n40-HT0	38	5190	MCS0	18.00	17.92
	002. I III 4 0-Π I 0	46	5230	IVICSU	18.00	17.98
	802.11ac40-VHT0	38	5190	MCS0	18.00	17.82
	002.11ac40-V1110	46	5230	IVICSU	18.00	17.84
	802.11ax40-HE0	38	5190	MCS0	18.00	17.78
	002.118X40-DEU	46	5230	IVICSU	18.00	17.72
	802.11ac80-VHT0	42	5210	MCS0	18.00	17.99
	802.11ax80-HE0	42	5210	MCS0	18.00	17.83
	802.11ac160-VHT0	50	5250	MCS0	15.00	14.77
	802.11ax160-HE0	50	5250	MCS0	15.00	14.83

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		Main	(Chain B)			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		52	5260		17.50	17.27
	802.11a	56	5280	6Mbps	17.50	17.16
	002.11a	60	5300	Olvibps	17.50	17.26
		64	5320		17.50	17.35
		52	5260		17.50	17.25
	802.11n20-HT0	56	5280	MCS0	17.50	17.38
	002.111120-1110	60	5300	IVICOU	17.50	17.40
		64	5320		17.50	17.37
		52	5260		17.50	17.27
	802.11ac20-VHT0	56	5280	MCS0	17.50	17.29
	002.11ac20-V1110	60	5300	IVICOU	17.50	17.33
5.25-5.35 GHz		64	5320		17.50	17.28
5.25-5.35 GHZ		52	5260		17.50	17.22
	802.11ax20-HE0	56	5280	MCS0	17.50	17.14
	002.11ax20-11L0	60	5300	IVICOU	17.50	17.33
		64	5320		17.50	17.36
	802.11n40-HT0	54	5270	MCS0	17.50	17.46
	002.111140-1110	62	5310	IVICOU	16.50	16.49
	802.11ac40-VHT0	54	5270	MCS0	17.50	17.32
	002.11ac40-V1110	62	5310	IVICOU	16.50	16.29
	802.11ax40-HE0	54	5270	MCS0	17.50	17.28
	002.11dX40-FIE0	62	5310		16.50	16.35
	802.11ac80-VHT0	58	5290	MCS0	17.50	17.49
	802.11ax80-HE0	58	5290	MCS0	17.50	17.33

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		Main	(Chain B)			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		100	5500		16.50	16.20
	802.11a	120	5600	6Mbps	16.50	16.21
	602.11a	140	5700	6Mbps	16.50	16.34
		144	5720]	16.50	16.35
		100	5500		16.50	16.33
	000 44-20 LITO	120	5600	Moss	16.50	16.37
	802.11n20-HT0	140	5700	MCS0	16.50	16.10
		144	5720	1	16.50	16.39
		100	5500		16.50	16.36
	000 44 00 1/4 170	120	5600	1	16.50	16.24
	802.11ac20-VHT0	140	5700	MCS0	16.50	16.31
		144	5720	1	16.50	16.36
		100	5500		16.50	16.29
		120	5600	1	16.50	16.38
	802.11ax20-HE0	140	5700	MCS0	16.50	16.35
		144	5720	1	16.50	16.29
		102	5510		16.50	16.27
		118	5590	† <u></u>	16.50	16.14
5.6GHz	802.11n40-HT0	134	5670	MCS0	16.50	16.30
		142	5710	1	16.50	16.37
		102	5510		16.50	16.13
		118	5590	1	16.50	16.07
	802.11ac40-VHT0	134	5670	MCS0	16.50	16.19
		142	5710	1	16.50	16.05
		102	5510		16.50	16.38
		118	5590	1	16.50	16.24
	802.11ax40-HE0	134	5670	MCS0	16.50	16.22
		142	5710	†	16.50	16.27
		106	5530	1	16.50	16.46
	802.11ac80-VHT0	122	5610	MCS0	16.50	16.39
		138	5690	1	16.50	16.45
		106	5530		16.50	16.36
	802.11ax80-HE0	122	5610	MCS0	16.50	16.33
		138	5690	1	16.50	16.28
	802.11ac160-VHT0	114	5570	MCS0	15.00	14.66
	802.11ax160-HE0	114	5570	MCS0	14.50	14.23

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		Main	(Chain B)			
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		149	5745		17.50	17.16
	802.11a	157	5785	6Mbps	17.50	17.34
		165	5825		17.50	17.39
		149	5745		17.50	17.33
	802.11n20-HT0	157	5785	MCS0	17.50	17.23
		165	5825		17.50	17.26
		149	5745		17.50	17.32
	802.11ac20-VHT0	157	5785	MCS0	17.50	17.19
		165	5825		17.50	17.18
5.8GHz		149	5745		17.50	17.38
3.6GHZ	802.11ax20-HE0	157	5785	MCS0	17.50	17.26
		165	5825		17.50	17.30
	802.11n40-HT0	151	5755	MCS0	17.50	17.42
	002. Ι ΙΠ 4 0 - ΠΤΟ	159	5795		17.50	17.47
	802.11ac40-VHT0	151	5755	MCS0	17.50	17.26
	002.11ac40-vH10	159	5795	IVICSU	17.50	17.15
	802.11ax40-HE0	151	5755	MCS0	17.50	17.22
	002.118X40-ΠΕU	159	5795	IVICSU	17.50	17.25
	802.11ac80-VHT0	155	5775	MCS0	17.50	17.44
	802.11ax80-HE0	155	5775	MCS0	17.50	17.27

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		Aux (Chain A)			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		1	2412		17.50	17.49
	802.11b	6	2437	1Mbps	17.50	17.48
		11	2462		17.50	17.47
		1	2412		17.00	16.91
	802.11g	6	2437	6Mbps	17.50	17.24
		11	2462		17.50	17.35
		1	2412		17.00	16.83
	802.11n20-HT0	6	2437	MCS0	17.50	17.43
		11	2462		16.50	16.44
		1	2412		17.00	16.79
	802.11ac20-VHT0	6	2437	MCS0	17.50	17.37
2.45GHz		11	2462		16.50	16.38
2.43612		1	2412		17.50	17.17
	802.11ax20-HE0	6	2437	MCS0	17.50	17.28
		11	2462		16.00	15.82
		3	2422		17.00	16.71
	802.11n40-HT0	6	2437	MCS0	17.50	17.33
		9	2452		16.00	15.75
		3	2422		17.00	16.92
	802.11ac40-VHT0	6	2437	MCS0	17.50	17.35
		9	2452		16.00	15.84
		3	2422		16.50	16.45
	802.11ax40-HE0	6	2437	MCS0	16.50	16.41
		9	2452		16.00	15.85

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		Aux (Chain A)			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		36	5180		18.50	18.19
	802.11a	40	5200	GMb no	18.50	18.11
	602.11a	44	5220	6Mbps	18.50	18.12
		48	5240		18.50	18.21
		36	5180		18.00	17.84
	802.11n20-HT0	40	5200	MCS0	18.50	18.35
	802. I III20-H I 0	44	5220	IVICSU	18.50	18.34
		48	5240		18.50	18.31
		36	5180		18.00	17.75
	802.11ac20-VHT0	40	5200	MCS0	18.50	18.26
	802.11ac20-VH10	44	5220	IVICSU	18.50	18.29
		48	5240		18.50	18.24
5.15-5.25 GHz		36	5180		18.00	17.78
5.15-5.25 GHZ	802.11ax20-HE0	40	5200	MCS0	18.50	18.33
	002.11ax20-n=0	44	5220	IVICSU	18.50	18.31
		48	5240		18.50	18.27
	000 11m 10 LITO	38	5190	MCS0	18.50	18.48
	802.11n40-HT0	46	5230	IVICSU	18.50	18.43
	802.11ac40-VHT0	38	5190	MCS0	18.50	18.28
	002.11aC40-VH10	46	5230	IVICSU	18.50	18.26
	802.11ax40-HE0	38	5190	MCS0	18.00	17.62
	002.118X4U-⊓EU	46	5230	IVICSU	18.50	18.13
	802.11ac80-VHT0	42	5210	MCS0	18.50	18.49
	802.11ax80-HE0	42	5210	MCS0	18.50	18.35
	802.11ac160-VHT0	50	5250	MCS0	15.00	14.85
	802.11ax160-HE0	50	5250	MCS0	15.00	14.79

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		Aux (Chain A)			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		52	5260		17.00	16.71
	802.11a	56	5280	6Mbps	17.00	16.60
	002.11a	60	5300	Olvibps	17.00	16.62
		64	5320		17.00	16.69
		52	5260		17.00	16.60
	802.11n20-HT0	56	5280	MCS0	17.00	16.87
	802.1 III20-III 0	60	5300	- 1000	17.00	16.86
		64	5320		17.00	16.82
		52	5260		17.00	16.72
	802.11ac20-VHT0	56	5280	MCS0	17.00	16.76
	002.11ac20-V1110	60	5300	IVICSU	17.00	16.82
5.25-5.35 GHz		64	5320		17.00	16.73
5.25-5.35 GHZ		52	5260		17.00	16.61
	802.11ax20-HE0	56	5280	MCS0	17.00	16.88
	002.11dX20-11E0	60	5300	IVICSU	17.00	16.81
		64	5320		17.00	16.84
	802.11n40-HT0	54	5270	MCS0	17.00	16.99
	002.111140-1110	62	5310	IVICSU	16.50	16.46
	802.11ac40-VHT0	54	5270	MCS0	17.00	16.83
	UUZ. I IAUHU-VIIIU	62	5310	IVICOU	16.50	16.40
	802.11ax40-HE0	54	5270	MCS0	17.00	16.73
	002.11aX40-NE0	62	5310	IVICOU	16.50	16.37
	802.11ac80-VHT0	58	5290	MCS0	17.00	16.99
	802.11ax80-HE0	58	5290	MCS0	17.00	16.78

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		Aux ((Chain A)			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		100	5500		17.50	17.13
	802.11a	120	5600	6Mbps	17.50	17.17
	802.11a	140	5700	Olvibps	17.50	17.35
		144	5720		17.50	17.30
		100	5500		17.50	17.26
	802.11n20-HT0	120	5600	MCS0	17.50	17.25
	802. I III20-H10	140	5700	IVICSU	17.50	17.06
		144	5720] [17.50	17.32
		100	5500		17.50	17.23
	000 44 00 \ // ITO	120	5600	Moco	17.50	17.17
	802.11ac20-VHT0	140	5700	MCS0	17.50	17.25
		144	5720	1	17.50	17.30
		100	5500		17.50	17.23
	802.11ax20-HE0	120	5600	1	17.50	17.32
		140	5700	MCS0	17.50	17.22
		144	5720		17.50	17.28
		102	5510		17.50	17.20
5.0011-	000 44: 40 LITO	118	5590	1	17.50	17.09
5.6GHz	802.11n40-HT0	134	5670	MCS0	17.50	17.29
		142	5710	1	17.50	17.31
		102	5510		17.50	17.18
	000 44 40 1/4 170	118	5590	1	17.50	17.07
	802.11ac40-VHT0	134	5670	MCS0	17.50	17.10
		142	5710	1	17.50	17.01
		102	5510		17.50	17.29
		118	5590	1	17.50	17.22
	802.11ax40-HE0	134	5670	MCS0	17.50	17.28
		142	5710	1	17.50	17.16
		106	5530		17.50	17.47
	802.11ac80-VHT0	122	5610	MCS0	17.50	17.39
		138	5690	1	17.50	17.42
		106	5530		17.50	17.10
	802.11ax80-HE0	122	5610	MCS0	17.50	17.10
		138	5690	1	17.50	17.29
	802.11ac160-VHT0	114	5570	MCS0	14.50	14.38
	802.11ax160-HE0	114	5570	MCS0	14.50	14.42

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		Aux (Chain A)			
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		149	5745		17.50	17.11
	802.11a	157	5785	6Mbps	17.50	17.06
		165	5825	1	17.50	17.09
		149	5745		17.50	17.18
	802.11n20-HT0	157	5785	MCS0	17.50	17.19
		165	5825		17.50	17.32
		149	5745	MCS0	17.50	17.29
	802.11ac20-VHT0	157	5785		17.50	17.29
		165	5825		17.50	17.13
5.8GHz		149	5745		17.50	17.20
3.0GHZ	802.11ax20-HE0	157	5785	MCS0	17.50	17.27
		165	5825		17.50	17.13
	802.11n40-HT0	151	5755	MCS0	17.50	17.48
	002.1111 4 0-1110	159	5795	IVICOU	17.50	17.46
	802.11ac40-VHT0	151	5755	MCS0	17.50	17.24
	002.11a040-VH10	159	5795	IVICSU	17.50	17.33
	802.11ax40-HE0	151	5755	MCS0	17.50	17.37
	002.11aX40-ΠΕυ	159	5795	IVICSU	17.50	17.29
	802.11ac80-VHT0	155	5775	MCS0	17.50	17.47
	802.11ax80-HE0	155	5775	MCS0	17.50	17.26

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Tablet mode

		Main	(Chain B)			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		1	2412		15.00	14.99
	802.11b	6	2437	1Mbps	15.00	14.96
		11	2462		15.00	14.98
		1	2412		15.00	14.82
	802.11g	6	2437	6Mbps	15.00	14.78
		11	2462		15.00	14.71
		1	2412		15.00	14.69
	802.11n20-HT0	6	2437	MCS0	15.00	14.85
		11	2462		15.00	14.79
		1	2412		15.00	14.81
	802.11ac20-VHT0	6	2437	MCS0	15.00	14.90
2.45GHz		11	2462		15.00	14.68
2.430112		1	2412		15.00	14.76
	802.11ax20-HE0	6	2437	MCS0	15.00	14.83
		11	2462		15.00	14.75
		3	2422		15.00	14.81
	802.11n40-HT0	6	2437	MCS0	15.00	14.77
		9	2452		15.00	14.88
		3	2422		15.00	14.80
	802.11ac40-VHT0	6	2437	MCS0	15.00	14.69
		9	2452	1	15.00	14.75
		3	2422		15.00	14.62
	802.11ax40-HE0	6	2437	MCS0	15.00	14.88
		9	2452		15.00	14.93

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		Main	(Chain B)			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		36	5180		12.50	12.24
	802.11a	40	5200	6Mbps	12.50	12.17
	002.11a	44	5220	6Mbps	12.50	12.24
		48	5240		12.50	12.28
		36	5180		12.50	12.18
	802.11n20-HT0	40	5200	MCS0	12.50	12.38
	802.11N2U-H1U	44	5220	IVICSU	12.50	12.45
		48	5240		12.50	12.40
		36	5180		12.50	12.26
	802.11ac20-VHT0	40	5200	MCS0	12.50	12.13
	802.11ac20-VH10	44	5220	IVICSU	12.50	12.35
		48	5240		12.50	12.29
5.15-5.25 GHz		36	5180		12.50	12.23
5.15-5.25 GHZ	802.11ax20-HE0	40	5200	MCS0	12.50	12.24
	002.11ax20-⊓⊑0	44	5220	IVICSU	12.50	12.22
		48	5240		12.50	12.16
	802.11n40-HT0	38	5190	MCS0	12.50	12.36
	802.11N4U-H1U	46	5230	IVICSU	12.50	12.44
	802.11ac40-VHT0	38	5190	MCS0	12.50	12.37
	002.11ac40-VH10	46	5230	IVICSU	12.50	12.36
	802.11ax40-HE0	38	5190	MCS0	12.50	12.34
	002.118X4U-⊓EU	46	5230	IVICSU	12.50	12.39
	802.11ac80-VHT0	42	5210	MCS0	12.50	12.46
	802.11ax80-HE0	42	5210	MCS0	12.50	12.41
	802.11ac160-VHT0	50	5250	MCS0	12.50	12.49
	802.11ax160-HE0	50	5250	MCS0	12.50	12.37

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Main (Chain B)								
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)		
		52	5260		12.50	12.13		
	802.11a	56	5280	GMb no	12.50	12.17		
	002.11a	60	5300	6Mbps	12.50	12.38		
		64	5320] [12.50	12.20		
		52	5260		12.50	12.42		
	802.11n20-HT0	56	5280	MCS0	12.50	12.37		
	802.111120-H10 -	60	5300	- IVICSU	12.50	12.34		
		64	5320		12.50	12.23		
		52	5260		12.50	12.27		
	802.11ac20-VHT0	56	5280	MCS0	12.50	12.23		
	802.11ac20-VH10	60	5300	IVICSU	12.50	12.31		
5.25-5.35 GHz		64	5320] [12.50	12.29		
5.25-5.35 GHZ		52	5260		12.50	12.35		
	802.11ax20-HE0	56	5280	MCS0	12.50	12.34		
	002.11ax20-ne0	60	5300	IVICSU	12.50	12.23		
		64	5320] [12.50	12.27		
	802.11n40-HT0	54	5270	MCS0	12.50	12.49		
	ου2. I III 4 U-Π1U	62	5310	IVICSU	12.50	12.47		
	902 11aa40 \/UT0	54	5270	MCS0	12.50	12.33		
	802.11ac40-VHT0	62	5310	IVICOU	12.50	12.36		
	802.11ax40-HE0	54	5270	MCS0	12.50	12.26		
	002.11dX40-ΠΕ0	62	5310	IVICOU	12.50	12.38		
	802.11ac80-VHT0	58	5290	MCS0	12.50	12.45		
	802.11ax80-HE0	58	5290	MCS0	12.50	12.32		

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

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	Main (Chain B)								
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)			
		149	5745		11.50	11.36			
	802.11a	157	5785	6Mbps	11.50	11.30			
		165	5825		11.50	11.38			
		149	5745		11.50	11.29			
	802.11n20-HT0	157	5785	MCS0	11.50	11.17			
		165	5825		11.50	11.19			
	802.11ac20-VHT0	149	5745	MCS0	11.50	11.26			
		157	5785		11.50	11.13			
		165	5825		11.50	11.14			
5.8GHz	802.11ax20-HE0	149	5745	MCS0	11.50	11.30			
3.0GHZ		157	5785		11.50	11.19			
		165	5825		11.50	11.26			
	802.11n40-HT0	151	5755	MCS0	11.50	11.48			
	002.1111 4 0-F110	159	5795	IVICOU	11.50	11.44			
	802.11ac40-VHT0	151	5755	MCS0	11.50	11.23			
	002.11ac40-vr110	159	5795	IVICSU	11.50	11.07			
	802.11ax40-HE0	151	5755	MCS0	11.50	11.19			
	002.11dX40-ΠΕ0	159	5795	IVICSU	11.50	11.19			
	802.11ac80-VHT0	155	5775	MCS0	11.50	11.43			
	802.11ax80-HE0	155	5775	MCS0	11.50	11.31			

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	Aux (Chain A)							
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)		
		1	2412		13.00	12.95		
	802.11b	6	2437	1Mbps	13.00	12.96		
		11	2462		13.00	12.99		
		1	2412		13.00	12.72		
	802.11g	6	2437	6Mbps	13.00	12.79		
		11	2462		13.00	12.68		
		1	2412	MCS0	13.00	12.66		
	802.11n20-HT0	6	2437		13.00	12.81		
		11	2462		13.00	12.85		
	802.11ac20-VHT0	1	2412	MCS0	13.00	12.90		
		6	2437		13.00	12.78		
2.45GHz		11	2462		13.00	12.73		
2.43612	802.11ax20-HE0	1	2412		13.00	12.84		
		6	2437	MCS0	13.00	12.88		
		11	2462		13.00	12.61		
		3	2422		13.00	12.59		
	802.11n40-HT0	6	2437	MCS0	13.00	12.67		
		9	2452		13.00	12.70		
		3	2422		13.00	12.75		
	802.11ac40-VHT0	6	2437	MCS0	13.00	12.64		
		9	2452		13.00	12.91		
		3	2422		13.00	12.87		
	802.11ax40-HE0	6	2437	MCS0	13.00	12.80		
		9	2452		13.00	12.74		

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Aux (Chain A)								
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)		
		36	5180		13.00	12.51		
	802.11a	40	5200	6Mbps	13.00	12.41		
	002.11a	44	5220	6Mbps	13.00	12.51		
		48	5240		13.00	12.53		
		36	5180		13.00	12.16		
	802.11n20-HT0	40	5200	MCS0	13.00	12.73		
	802.11n20-H10	44	5220	MCSU	13.00	12.73		
		48	5240		13.00	12.63		
	802.11ac20-VHT0	36	5180	MCS0	13.00	12.12		
		40	5200		13.00	12.60		
		44	5220		13.00	12.62		
		48	5240		13.00	12.54		
5.15-5.25 GHz	802.11ax20-HE0	36	5180	MCS0	13.00	12.11		
5.15-5.25 GHZ		40	5200		13.00	12.69		
		44	5220		13.00	12.68		
		48	5240		13.00	12.58		
	000 44-40 LITO	38	5190	MOCO	13.00	12.82		
	802.11n40-HT0	46	5230	MCS0	13.00	12.82		
	000 44 40 \ // ITO	38	5190	MOCO	13.00	12.60		
	802.11ac40-VHT0	46	5230	MCS0	13.00	12.65		
	000 44 40 1 150	38	5190	MOCO	13.00	12.02		
	802.11ax40-HE0	46	5230	MCS0	13.00	12.51		
	802.11ac80-VHT0	42	5210	MCS0	13.00	12.99		
	802.11ax80-HE0	42	5210	MCS0	13.00	12.82		
	802.11ac160-VHT0	50	5250	MCS0	13.00	12.98		
	802.11ax160-HE0	50	5250	MCS0	13.00	12.77		

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Aux (Chain A)							
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)	
		52	5260		12.00	11.70	
	802.11a	56	5280	GN/lone	12.00	11.67	
	002.11a	60	5300	6Mbps	12.00	11.60	
		64	5320] [12.00	11.74	
		52	5260		12.00	11.60	
	802.11n20-HT0	56	5280	MCS0	12.00	11.92	
		60	5300	IVICSU	12.00	11.87	
		64	5320		12.00	11.83	
	802.11ac20-VHT0	52	5260	MCS0	12.00	11.73	
		56	5280		12.00	11.81	
		60	5300		12.00	11.82	
5.25-5.35 GHz		64	5320		12.00	11.74	
5.25-5.35 GHZ	802.11ax20-HE0	52	5260		12.00	11.73	
		56	5280	MCS0	12.00	11.89	
	002.11dx20-FIE0	60	5300	IVICSU	12.00	11.80	
		64	5320		12.00	11.86	
	802.11n40-HT0	54	5270	MCS0	12.00	11.96	
	002.1111 4 0-1110	62	5310	IVICOU	12.00	11.94	
	802.11ac40-VHT0	54	5270	MCS0	12.00	11.78	
	002.11a040-V1110	62	5310	IVICOU	12.00	11.82	
	802.11ax40-HE0	54	5270	MCS0	12.00	11.65	
	002.11ax40-⊓EU	62	5310	IVICOU	12.00	11.73	
	802.11ac80-VHT0	58	5290	MCS0	12.00	11.99	
	802.11ax80-HE0	58	5290	MCS0	12.00	11.91	

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Aux (Chain A)							
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)	
		100	5500		13.50	13.15	
	802.11a	120	5600	6Mbps	13.50	13.19	
	002.11a	140	5700	6Mbps	13.50	13.37	
		144	5720] [13.50	13.32	
		100	5500		13.50	13.28	
	000 44-00 LITO	120	5600	Moco	13.50	13.27	
	802.11n20-HT0	140	5700	MCS0	13.50	13.18	
		144	5720		13.50	13.34	
		100	5500		13.50	13.25	
	000 44 00 14 170	120	5600	MCS0	13.50	13.19	
	802.11ac20-VHT0	140	5700		13.50	13.27	
		144	5720	1	13.50	13.32	
	802.11ax20-HE0	100	5500		13.50	13.25	
		120	5600		13.50	13.34	
		140	5700	MCS0	13.50	13.24	
		144	5720	1	13.50	13.30	
		102	5510	MCS0	13.50	13.22	
		118	5590		13.50	13.11	
5.6GHz	802.11n40-HT0	134	5670		13.50	13.31	
		142	5710		13.50	13.33	
		102	5510		13.50	13.20	
		118	5590	1	13.50	13.09	
	802.11ac40-VHT0	134	5670	MCS0	13.50	13.12	
		142	5710	1	13.50	13.33	
		102	5510		13.50	13.31	
		118	5590	1	13.50	13.24	
	802.11ax40-HE0	134	5670	MCS0	13.50	13.30	
		142	5710	1	13.50	12.38	
		106	5530		13.50	13.44	
	802.11ac80-VHT0	122	5610	MCS0	13.50	13.38	
	332.114000 11110	138	5690	1	13.50	13.49	
		106	5530	 	13.50	13.41	
	802.11ax80-HE0	122	5610	MCS0	13.50	13.37	
	002.110/001120	138	5690	1	13.50	13.29	
	802.11ac160-VHT0	114	5570	MCS0	13.50	13.45	
	802.11ax160-HE0	114	5570	MCS0	13.50	13.45	

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Aux (Chain A)								
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)		
		149	5745		14.00	13.71		
	802.11a	157	5785	6Mbps	14.00	13.77		
		165	5825	1	14.00	13.86		
		149	5745		14.00	13.76		
	802.11n20-HT0	157	5785	MCS0	14.00	13.74		
		165	5825		14.00	13.91		
	802.11ac20-VHT0	149	5745	MCS0	14.00	13.75		
		157	5785		14.00	13.65		
		165	5825		14.00	13.57		
5.8GHz	802.11ax20-HE0	149	5745	MCS0	14.00	13.72		
3.0GHZ		157	5785		14.00	13.70		
		165	5825		14.00	13.81		
	802.11n40-HT0	151	5755	MCS0	14.00	13.99		
	002.111140-1110	159	5795	IVICSU	14.00	13.97		
	802.11ac40-VHT0	151	5755	MCS0	14.00	13.78		
	002.11ac40-VH10	159	5795	IVICSU	14.00	13.65		
	802.11ax40-HE0	151	5755	MCS0	14.00	13.70		
	002.11dX40-NEU	159	5795	IVICSU	14.00	13.66		
	802.11ac80-VHT0	155	5775	MCS0	14.00	13.96		
	802.11ax80-HE0	155	5775	MCS0	14.00	13.85		

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Bluetooth conducted power table:

			1Mbps	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		9.34		7.58		7.49	
BR/EDR	CH 39	2441	10.00	9.40	9.00	7.82	9.00	7.78	
	CH 78	2480		9.75		7.91		7.88	

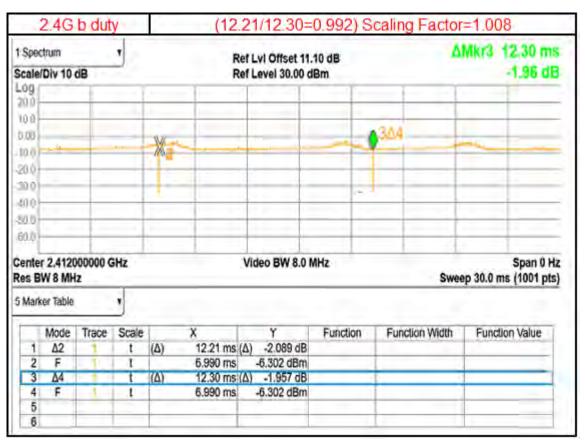
Mode	Channel	Frequency	GFSK		
Wode	Charine	(MHz)	Max. Rated Avg.Power + Max. Tolerance (dBm)	Average Output Power (dBm)	
	CH 00	2402		6.41	
BLE_1M	CH 19	2440	7	6.69	
	CH 39	2480		6.92	

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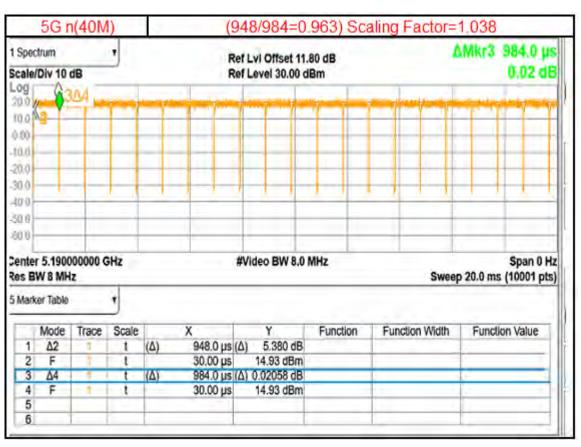
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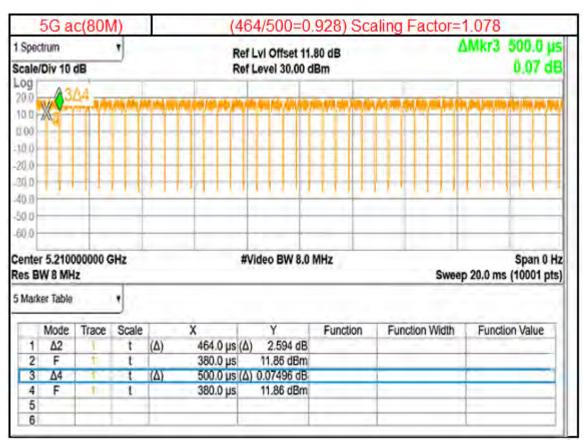
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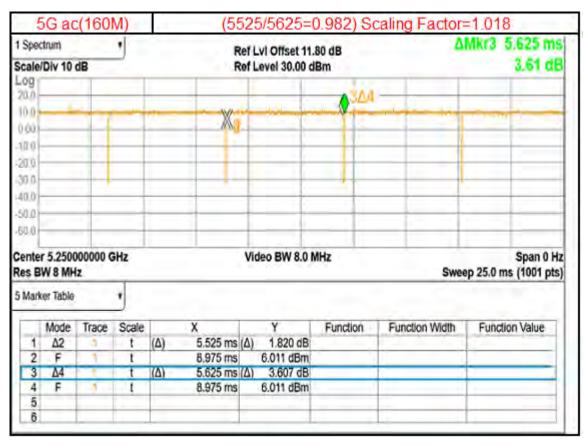
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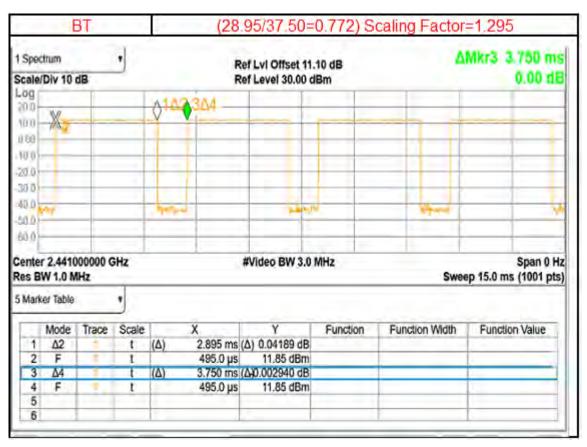


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1.4 Test Environment

Ambient Temperature: 22±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 measured with display screen open at 90 degree and bottom side of keyboard touch against the flat phantom.

Tablet mode

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

Note:

802.11b DSSS SAR Test Requirements:

- 1. SAR is measured for 2.4 GHz 802.11b DSSS mode using the highest measured maximum output power channel, when the reported SAR of the highest measured maximum output power channel for the exposure configuration is ≤ 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

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

- 5. SAR is measured using the highest measured maximum output power channel. When the reported SAR of the initial test configuration is > 0.8 W/kg, SAR measurement is required for the subsequent next highest measured output power channel(s) in the initial test configuration until the reported SAR is ≤ 1.2 W/kg or all required channels are tested.
- 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 \leq 0.8 W/kg, when the transmission band is \leq 100 MHz.
- 8. According to KDB865664 D01, SAR measurement variability must be assessed for each frequency band. When the original highest measured SAR is ≥ 0.8 W/kg, repeated that measurement once. Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/kg (~10% from the 1-g SAR limit)

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1.6 Operating modes validation by power measurement

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

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

DUT operating mode	Lid Angle description	WLAN TX state
Lid-close	0° ≤ Lid angle < 30°	No TX transmission
Notebook	30° ≤ Lid angle < 200°	Full Power Level
Tablet	200° ≤ 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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			Оре	erating r	node v	<i>r</i> alidation	າ by pov	ver me	easure	ment		
Antenna	Operation mode	Lid angle 0°	802.11b 0.00	WLAN 802.11n(40M) 5.2G 0.00	802.11ac(80M) 5.2G 0.00	WLAN 802.11ac(160M) 5.2G 0.00	WLAN 802.11n(40M) 5.3G 0.00	802.11ac(80M) 5.3G 0.00	802.11ac(80M) 5.6G 0.00	WLAN 802.11ac(160M) 5.6G 0.00	WLAN 802.11n(40M) 5.8G 0.00	802.11ac(80M) 5.8G 0.00
	Lid close	10° 20°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laptop	30° 26°	19.90	17.89	17.97	14.74	17.41	17.46	16.34	14.57	17.42	17.35
	Lid close	26°	0.00	0.00	0.00	0.00 0.00	0.00	0.00	0.00	0.00	0.00	0.00 0.00
	Lid close	27° 28°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 0.00
		29°	0.00 19.98	0.00	0.00	0.00 14.75	0.00 17.42	0.00	0.00 16.29	0.00 14.64	0.00 17.37	0.00
		31°	19.93	17.89	17.90	14.68	17.45 17.36	17.41 17.40	16.27	14.57	17.44 17.39	17.42 17.35
		32° 33°	19.94 19.91	17.91 17.96	17.89 17.89	14.68 14.74	17.36 17.44	17.40 17.46	16.31 16.31	14.65 14.58	17.39 17.45	17.35 17.36
		34° 35°	19.96	17.96	17.92	14.74 14.76	17.46	17.49	16.30	14.57	17.40 17.44	17.41
		45°	19.94 19.89 19.98	17.96 17.95	17.99 17.98	14.76	17.38 17.39 17.44	17.49 17.46 17.43	16.26 16.29	14.63 14.59	17.40	17.41 17.39
		55°	19.98 19.95	17.89 17.91	17.99 17.91	14.73 14.74	17.44 17.44	17.43 17.48	16.32 16.34	14.65 14.58	17.39 17.40	17.39 17.34 17.35
		75°	19.94	17.92	17.98	14.71	17.40	17.45	16.27	14.57	17.45	17.36
	Laptop	85° 95°	19.96 19.96	17.92 17.89	17.94 17.93	14.68 14.70	17.38 17.41	17.43 17.46	16.29 16.32	14.64 14.64	17.45 17.40	17.44 17.40
		105°	19.96	17 97	17 90	14 67	17.36	17.46	16.32	14 58	17.43	17.42
		115° 125°	19.96 19.98	17.91 17.88	17.96 17.96	14.76 14.68	17.40 17.40	17.45 17.42	16.31 16.30	14.58 14.60	17.42 17.41	17.35 17.35
		135° 145°	19.94 19.90	17.89 17.97	17.92 17.96	14.73 14.68	17.46 17.42	17.44 17.46	16.27 16.30	14.65 14.65	17.43 17.46	17.34 17.43
		155*	19.97 19.94	17.94 17.96	17.90 17.96	14.70 14.67	17.44	17.42 17.42	16.33 16.31	14.57 14.59	17.40	17.34
		165° 175° 185°	19.96 19.89	17.90 17.88	17.96 17.96	14.72 14.75	17.41 17.38 17.45	17.43 17.40	16.31 16.34	14.62 14.64	17.38 17.45 17.45	17.43 17.37 17.38
		195°	19.89 19.99	17.88 17.92	17.95 17.94	14.70	17.39	17.40 17.45	16.34 16.31	14.64 14.61	17.45 17.40	17.38 17.39
	Tablet	205° 200°	14.91 14.91	12.44 12.38	12.45 12.43	12.46	12.43 12.39	12.41 12.39	11.43 11.43	11.44 11.45	11.42 11.48	11.41 11.36
		195*	19.97	17.96	17.90	12.40 14.70	17.37	17.39	16.32	14.64	17.44	17.44
	Laptop	196° 197°	19.89 19.89	17.95 17.96	17.93 17.96	14.71 14.73	17.46 17.39	17.40 17.46	16.29 16.28	14.66 14.59	17.37 17.40	17.37 17.41
	l	198°	19.90	17.98 17.93	17.97	14.68 14.77	17.44 17.41	17.49 17.41	16.34 16.28	14.58 14.64	17.44 17.42	17.40 17.36
		199° 200°	19.95 14.99	12.36	17.99 12.38	12.43	12.49	12.40	11.47	11.39	11.44	11.35
		201°	14.99	12.37	12.39 12.37	12.42	12.41	12.41	11.39 11.43	11.40 11.49	11.39	11.42 11.40
	ĺ	202° 203°	14.94 14.99	12.39 12.41	12.37 12.42	12.48 12.48	12.45 12.41	12.37 12.44	11.43 11.39	11.49 11.40	11.48 11.38	11.40 11.36
		204° 205°	14.95 14.89	12.43 12.44	12.40 12.43	12.45 12.47	12.48 12.43	12.42 12.44	11.47 11.42	11.42 11.45	11.44 11.41	11.34 11.40
		215° 225°	14.96 14.90	12.39 12.43	12.38 12.38	12.40 12.46	12.46 12.49	12.44 12.37	11.43 11.39	11.39 11.42	11.40 11.39	11.39 11.36
		235°	14.92	12.44	12.41	12.45	12.45	12.35	11.45	11.48	11.42	11.40
	Tablet	245° 255° 265°	14.91 14.94	12.40 12.44	12.41 12.45	12.45 12.44	12.44 12.43	12.42 12.36	11.39 11.39	11.46 11.45	11.46	11.42 11.33
	Tablet	265° 275°	14.93 14.97	12.40 12.39	12.41 12.44	12.42 12.43	12.42 12.44	12.41 12.44	11.43 11.44	11.46 11.45	11.41 11.41 11.40	11.33 11.39 11.41
		285° 295°	14.97 14.99 14.90	12.39 12.44 12.38	12.41	12.43 12.40 12.40	12.44 12.48 12.42	12.45	11.43	11.45	11.45	11.41 11.40 11.33
		305°		12.38	12.41 12.46	12.40	12.42	12.43	11.43 11.42	11.45 11.39	11.48 11.47	
		315° 325°	14.90 14.89	12.36 12.35 12.44	12.44 12.46	12.40 12.48 12.46	12.39 12.47 12.43	12.42 12.36 12.35	11.44 11.38	11.39 11.43	11.41 11.43	11.42 11.39
		335°	14.89	12.44	12.46		12.43 12.45	12.35	11.38	11.43 11.41	11.43 11.45	11.37
		345° 355°	14.95 14.95	12.37 12.41	12.46 12.36	12.40 12.44	12.47 12.46	12.40 12.39	11.40 11.45	11.39 11.44	11.39 11.47	11.36 11.38
		360°	14.89	12.35	12.43	12.42	12.43	12.39	11.44	11.43	11.46	11.37
Tx1		350° 340°	14.95 14.90	12.36 12.34	12.42 12.38	12.41 12.40	12.48 12.45	12.37 12.38	11.44 11.39	11.40 11.40	11.43 11.40	11.39 11.34
		330°	14.95 14.89	12.39 12.44	12.46 12.38	12.44 12.41	12.46 12.41	12.39	11.45 11.45	11.49 11.40	11.41 11.39	11.34 11.35
		320° 310°	14.98	12.43	12.41	12.49	12.47	12.42 12.43	11.47	11.41	11.40	11.42
		300° 290°	14.90 14.97	12.36 12.35	12.37 12.42	12.44 12.44	12.42 12.46	12.42 12.37	11.37 11.46	11.49 11.46	11.39 11.46	11.35 11.42
	Tablet	290° 280° 270° 260°	14.90 14.96	12.37 12.35	12.41 12.46	12.40 12.48	12.46 12.40	12.40 12.43	11.42 11.44	11.42 11.45	11.42 11.44	11.43 11.35
		260°	14.98	12.37	12.44	12.46	12.40	12.41	11.39	11.44	11.41	11.36
		250° 240°	14.98 14.92	12.38 12.39	12.37 12.39	12.47 12.44	12.48 12.46	12.45 12.44	11.45 11.41	11.41 11.43	11.42 11.43	11.35 11.43
		230° 220°	14.99 14.92	12.41 12.40	12.39 12.45	12.49 12.41	12.48 12.44	12.36 12.45	11.38 11.41	11.42 11.45	11.39 11.44	11.37 11.37
		210°	14.99	12.36	12.46	12.41	12.41	12.41	11.37	11.47	11.40	11.37
		200° 190°	14.89 19.97	12.44 17.98	12.45 17.90	12.45 14.69	12.43 17.46	12.40 17.49	11.42 16.34	11.42 14.59	11.47 17.37	11.42 17.35
	Laptop	195° 200°	19.95 14.90	17.91	17.90	14.77	17.40	17.49	16.27	14.58	17.38	17.44 11.36
	rablet	199°		12.35 17.91 17.94	12.44 17.89 17.94	12.48 14.70	12.46 17.36	12.35 17.40 17.39	11.43 16.33 16.30	11.46 14.61 14.66	11.41 17.47	17.36
	ĺ	198° 197°	19.98 19.98 19.95	17.94 17.92	17.94 17.98	14.70 14.76	17.36 17.43 17.37	17.39 17.43	16.30 16.35	14.66 14.59	17.41 17.41	17.42 17.35
		196°	19.89	17.95	17.92	14.74	17.39	17.39	16.28	14.58	17.47	17.35
		195° 194°	19.92 19.96	17.88 17.95	17.93 17.90	14.76 14.74	17.43 17.43	17.44 17.49	16.26 16.32	14.65 14.61	17.38 17.40	17.41 17.36
	ĺ	193° 192°	19.98 19.95	17.96 17.89	17.93 17.99	14.74 14.69	17.45 17.39	17.43 17.45	16.31 16.29	14.59 14.65	17.45 17.43	17.41
		191°	19.90	17.93	17.99	14.70	17.44	17.42	16.29	14.61	17.40	17.41 17.37
		190° 180°	19.94 19.96	17.92 17.93	17.93 17.98	14.75 14.67	17.45 17.41	17.42 17.42	16.33 16.30	14.60 14.64	17.39 17.45	17.36 17.43
		170°	19.91	17.95	17.98	14.76	17.36	17.45	16.28	14.60	17.47	17.37
	Laptop	160°	19.94	17.95 17.98	17.89 17.89	14.71 14.71	17.42 17.38	17.39 17.42	16.31 16.35	14.66	17.44	17.41 17.37
		140°	19.95 19.90	17.88	17.89	14.76	17.45	17.44	16.36	14.64	17.45 17.37	17.38
		130° 120° 110°	19.92	17.98 17.91 17.93	17.98 17.94	14.76 14.77	17.40 17.42 17.38	17.48 17.48 17.40	16.30 16.28 16.34	14.61 14.66	17.43 17.37 17.41	17.38 17.39 17.42
			19.92 19.95	17.93	17.94 17.91	14.67	17.38	17.40	16.34	14.66 14.61	17.41	17.42
		100° 90°	19.98 19.93	17.97 17.97	17.89 17.97	14.69 14.73	17.37 17.36	17.46 17.47	16.35 16.36	14.57 14.57	17.37 17.45	17.44 17.44
		80°	19.92	17.91	17.99	14.67	17.39	17.49	16.34	14.61	17.39	17.38
	ĺ	70° 60°	19.89 19.98	17.95 17.94	17.98 17.90	14.69 14.71	17.38 17.43	17.40 17.47	16.30 16.31	14.56 14.61	17.46 17.41	17.37 17.40
		50° 40°	19.94 19.92	17.88 17.95	17.99 17.98	14.74 14.76	17.36 17.46	17.44 17.40	16.35 16.32	14.60 14.60	17.41 17.47	17.41 17.39
		30"	19.99	17.91	17 99	14.73	17.46	17.43	16.28	14.59	17.47	17.43
	Lid close	20° 25°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 0.00	0.00	0.00
	Laptop	30*	19.91	17.97	17.89	14.73	17.45	17.43	16.27	14.64	17.39	17.40
		29° 28°	0.00	0.00	0.00	0.00	0.00	0.00 0.00	0.00	0.00 0.00	0.00	0.00
		27° 26°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	ĺ	25°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Lid close	24° 23°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	ĺ	23° 22°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 0.00	0.00	0.00
	ĺ	21° 20°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	ĺ	10°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 0.00 0.00	0.00 0.00 0.00
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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

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台灣檢驗科技股份有限公司



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Antenna	Operation mode	Lid angle	802.11b 0.00	WLAN 802.11n(40M) 5.2G 0.00	802.11ac(80M) 5.2G 0.00	WLAN 802.11ac(160M) 5.2G 0.00	WLAN 802.11n(40M) 5.3G 0.00	802.11ac(80M) 5.3G 0.00	802.11ac(80M) 5.6G 0.00	WLAN 802.11ac(160M) 5.6G 0.00	WLAN 802.11n(40M) 5.8G 0.00	802.11ac(80M) 5.80 0.00
	Lid close	10°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Laptop	20° 30°	0.00 17.39	0.00 18.45	0.00 18.43	0.00 14.76	0.00 16.89	0.00 16.99	0.00 17.38	0.00 14.34	0.00 17.47	0.00 17.41
		25° 26°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 0.00	0.00
	Lid close	27° 28°	0.00	0.00	0.00	0.00	0.00 0.00	0.00	0.00 0.00	0.00	0.00	0.00
		29°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		30° 31°	17.42 17.39	18.43 18.46	18.42 18.46	14.84 14.83	16.95 16.98	16.91 16.94	17.42 17.40	14.29 14.35	17.44 17.39	17.37 17.46
		32° 33°	17.39 17.39 17.39	18.46 18.48	18.42	14.63 14.77 14.77	16.99 16.91	16.95 16.95	17.40 17.37 17.46	14.34	17.39 17.46 17.42	17.46 17.45 17.43
		33° 34°	17.39 17.48	18.48 18.48	18.43	14.77 14.79	16.91 16.90	16.95 16.91	17.46 17.43	14.28 14.37	17.42 17.38	17.43 17.47
		35°	17.42	18.48	18.49	14.82	16.96	16.94	17.37	14.32	17.39	17.45
		45° 55°	17.41 17.41	18.40 18.40	18.49 18.44	14.79	16.93 16.93	16.99 16.89	17.40 17.42	14.37	17.43 17.43	17.45 17.39
		55° 65°	17.41 17.45 17.43	18.40 18.48	18.42	14.84 14.85	16.93 16.94	16.89 16.94	17.42 17.46 17.42	14.34 14.30	17.43 17.39	17.39 17.37
	Laptop	75° 85°	17.43	18.42 18.40	18.49 18.47	14.81 14.75	16.95 16.95	16.96 16.98	17.42	14.37 14.36	17.42 17.47	17.47 17.46
	Сархор	95°	17.41	18.39	18.47	14.78	16.97	16.93	17.39	14.37	17.48	17.45
		105° 115°	17.49 17.49	18.48 18.45	18.43 18.49	14.84 14.80	16.92 16.98	16.98 16.99	17.47 17.42	14.38 14.29	17.46 17.45	17.38 17.45
		125°	17.42 17.40	18.43 18.48	18.46 18.42	14.78	16.92 16.98	16.96 16.89	17.43 17.41	14.33 14.36	17.43 17.41	17.43 17.37
		145°	17.44	18.41	18.48 18.42	14.82	16.95	16.96	17.40	14.33	17.40	17.47
		155° 165°	17.42 17.43	18.41 18.48	18.42 18.47	14.81 14.77	16.92 16.92	16.90 16.97	17.45 17.39	14.31 14.28	17.41 17.43	17.47 17.42
		175° 185°	17.46 17.49	18.47 18.48	18.41 18.43	14.84 14.82	16.90 16.95	16.97 16.90	17.38 17.45	14.30	17.39 17.46	17.43 17.37
		195°	17.49	18.39	18.47	14.82	16.96	16.95	17.44	14.30	17.41	17.40
	Tablet	205° 200°	12.58	11.77	11.51 11.49	11.31 11.39	11.75 11.74	11.28 11.35	12.31 12.32	11.34	11.56 11.60	11.34 11.33
		195°	17.49	18.41	18.49	14.84	16.91	16.95	17.45	14.33	17.44	17.37
	Laptop	196° 197°	17.46 17.47	18.40 18.47	18.42 18.49	14.85 14.85	16.89 16.96	16.93 16.99	17.42 17.43	14.36 14.33	17.46 17.43	17.38 17.39
		198°	17.48	18.48 18.45	18.43 18.44	14.81 14.84	16.98	16.96	17.45 17.41	14.35 14.29	17.38	17.46 17.40
		200°	12.58	11.76	11.51	11.36	16.99 11.79	16.93 11.36	12.32	11.30	11.55	11.33
		201° 202°	12.63 12.58	11.76 11.76	11.50 11.50	11.29 11.32	11.79 11.77	11.28 11.27	12.26 12.25	11.28 11.34	11.56 11.53	11.37 11.36
		203°	12.62	11.71	11.57	11 33	11.81	11.36	12.35	11.34	11.62	11.34
		204° 205°	12.62 12.67	11.77 11.80	11.48 11.55	11.33 11.33	11.75 11.74	11.30 11.35	12.35 12.31	11.29 11.27	11.57 11.63	11.35 11.30
		215° 225°	12.66	11.73 11.72	11.54	11.29 11.35	11.73 11.75	11.27 11.36	12.32 12.35	11.32	11.59 11.53	11.39 11.32
		235°	12.62 12.62	11.78	11.52 11.54	11.32	11.77	11.27		11.29 11.29	11.63	11.38
		245° 255°	12.64 12.64	11.72 11.80	11.51 11.50	11.29 11.36	11.79 11.74	11.33 11.31	12.32 12.32	11.34 11.32	11.60 11.53	11.32 11.38
	Tablet	265° 275°	12.67 12.67	11.78 11.74	11.57 11.54	11.35 11.34	11.78 11.77	11.28 11.37	12.25 12.27	11.30 11.32	11.55 11.56 11.54	11.37 11.32
		275° 285°	12.67 12.67	11.74 11.72	11.54 11.54	11.34 11.34	11.77 11.73	11.37 11.33	12.27 12.34	11.32 11.27	11.54 11.60	11.32 11.35
		295°	12.64	11.76	11.52	11.36	11.75	11.31	12.27	11.34	11.61	11.37
		305° 315° 325°	12.68 12.67 12.61	11.72 11.74 11.74	11.53 11.53	11.34 11.31 11.39	11.77 11.74 11.79	11.36 11.29	12.27 12.31 12.32	11.31 11.26	11.58 11.57 11.55	11.37 11.32
		325° 335°	12.61 12.61	11.74 11.77	11.53 11.56 11.50	11.39 11.37	11.79 11.80	11.29 11.28 11.29	12.32 12.28	11.26 11.34 11.30	11.55 11.61	11.32 11.37 11.30
		345°	12.67	11.75	11.48	11.33	11.81	11.33	12.26	11.26	11.63	11.30
		355°	12.63 12.67	11.81	11.56 11.58	11.37 11.34	11.75 11.83	11.32	12.26	11.27	11.63 11.58	11.35 11.31
Tx2		360° 350°	12.60	11.79 11.75	11.56	11.30	11.73	11.30 11.32	12.33 12.26	11.34 11.33	11.54	11.39
		340° 330°	12.68 12.64	11.76 11.81	11.49 11.51	11.32 11.37	11.74 11.83	11.32 11.34	12.29 12.26	11.34 11.28	11.57 11.56	11.37 11.39
		320°	12.66	11.71	11.52	11.35	11.78	11.33	12.30	11.35	11.60	11.37
		310° 300°	12.68 12.63	11.80 11.80	11.49 11.52	11.38 11.33	11.80 11.73	11.34 11.37	12.34 12.30	11.26 11.30	11.60 11.54	11.36 11.30
		290° 280°	12.63	11.72	11.49 11.57	11.37 11.32	11.82 11.75	11.37 11.29	12.25 12.28	11.32 11.36	11.57	11.33 11.31
	Tablet	270°	12.58	11.78	11.56	11.30	11.79	11.31	12.30	11.32	11.61	11.38
		260° 250°	12.59 12.63	11.81 11.72	11.52 11.50	11.29 11.32	11.74 11.82	11.33 11.27	12.30 12.28	11.36 11.34	11.56 11.58	11.38 11.34
		240° 230°	12.64	11.74	11.53 11.58	11.30 11.30	11.76	11.28 11.35	12.25 12.27	11.32 11.33	11.58 11.58	11.39
		230° 220° 210°	12.58 12.58			11.30 11.33 11.37		11.35 11.27 11.28	12.27 12.35 12.32	11.33 11.27 11.33		11.34 11.30 11.37
		210°	12.58	11.77 11.79	11.55 11.55	11.37	11.74 11.81	11.28	12.32 12.28	11.33	11.56 11.60	11.37
	Laptop	190°	17.43	18.48	18.44	14.85	16.94	16.94	17.42	14.29	17.44	17.44
	Tablet	195° 200°	17.45 12.64	18.38 11.81	18.42 11.48	14.77 11.31	16.92 11.73	16.93 11.27	17.44 12.33	14.32 11.27	17.45 11.57	17.46 11.36
		199°	17.40 17.41	18.40 18.48	18.49 18.40	14.79 14.78	16.96 16.93	16.89 16.95	17.37 17.45	14.37 14.30	17.48 17.47	17.43 17.46
		197"	17.45	18.38	18.49	14.79	16.94	16.93	17.45	14.35	17.41	17.37
		196° 195°	17.46 17.45	18.38 18.45	18.40 18.46	14.85 14.81	16.97 16.97	16.98 16.97	17.42 17.46	14.37 14.34	17.38 17.39	17.46 17.45
		194°	17.41	18.42	18.43	14.79	16.98	16.98	17.45	14.30	17.48	17.43
		193° 192°	17.48 17.49	18.46 18.46	18.40 18.48	14.85 14.80	16.93 16.92	16.95 16.96	17.47 17.40	14.37 14.33	17.46 17.42	17.37 17.47
		191°	17.41	18.43	18.45	14.81	16.96	16.92	17.39	14.28	17.40	17.43
		190° 180°	17.39 17.46	18.42 18.41	18.48 18.49	14.79 14.79	16.98 16.97	16.92 16.98	17.41 17.46	14.32 14.32	17.47 17.42	17.44 17.46
		170°	17.42	18.40	18.49	14.82	16.98	16.89	17.42	14.37	17.38	17.38
	Laptop	160°	17.39 17.47	18.42 18.38	18.40 18.41	14.77 14.85	16.97 16.90	16.96 16.90	17.46 17.45	14.34 14.34	17.44 17.42	17.45 17.42
		140°	17.48	18.46	18.43	14.85	16.97	16.94	17.37	14.35	17.41	17.46
		130° 120°	17.40 17.48	18.42 18.42	18.41 18.45	14.77 14.82	16.97 16.93	16.94 16.96	17.39 17.42	14.30 14.32	17.43 17.42	17.43 17.42
		120° 110°	17.46	18.38	18.48	14.80	16.96	16.93	17.38	14.29	17.41	17.42
		100° 90°	17.42 17.48	18.41 18.43	18.46 18.42	14.78 14.84	16.99 16.90	16.89 16.91	17.46 17.38	14.32 14.29	17.44 17.40	17.43 17.46
		80° 70°	17.44	18.41 18.40	18.46	14.79 14.78	16.94	16.95 16.99	17.42	14.33	17.43 17.41	17.45 17.46
		70°	17.40 17.45	18.40 18.47	18.47 18.42	14.78 14.76	16.96 16.89	16.99 16.94	17.38 17.37	14.28 14.30	17.41 17.39	17.46 17.42
		50°	17.48	18.46	18.48	14.76	16.89	16.98	17.46	14.32	17.39	17.40
		40° 30°	17.48 17.43	18.44 18.43	18.46 18.40	14.75 14.77	16.93 16.96	16.96 16.93	17.44 17.41	14.34 14.37	17.41 17.38	17.44 17.39
	Lid close	20°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 0.00	0.00
	Laptop	30°	17.44	18.48	18.49	14.82	16.98	16.98	17.42	14.30	17.38	17.45
		29°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 0.00	0.00
	Сархор			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Саргор	28° 27°	0.00	0.00	0.00							
	Сархор	27° 26°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		27° 26° 25° 24°	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00	0.00	0.00	0.00	0.00 0.00	0.00
	Lid close	27° 26° 25°	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
		27° 26° 25° 24°	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
		27° 26° 25° 24° 23° 22°	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00

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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.

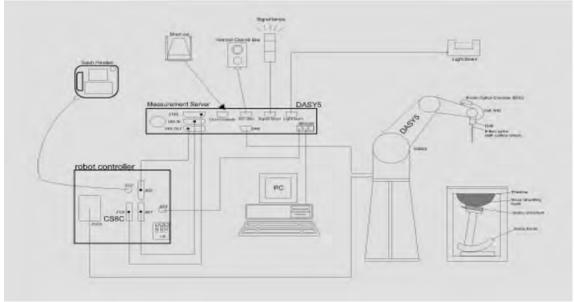


Fig. a The block diagram of SAR system

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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.
- 11. Validation dipole kits allowing to validate the proper functioning of the system.

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1.8 System Components

EX3DV4 E-Field Probe

Construction	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)	1
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	,
Dynamic	10 μW/g to > 100 mW/g	,
Range	Linearity: \pm 0.2 dB (noise: typically < 1 μ W/s	g)
Dimensions	Tip diameter: 2.5 mm	
Application	High precision dosimetric measurements in (e.g., very strong gradient fields). Only compliance testing for frequencies up to 6 better 30%.	probe which enables

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PHANTOM

PHANTOW		
Model	ELI	
Construction	body-mounted wireless device to 6 GHz. ELI is fully co standard and all known tissue optimized regarding its perfor our standard phantom tables. I liquid. Reference markings or the complete setup, including	compliance testing of handheld and is in the frequency range of 30 MHz in the frequency range of the frequency freque
Shell	2 ± 0.2 mm	The state of the s
Thickness		
Filling Volume	Approx. 30 liters	
Dimensions	Major axis: 600 mm Minor axis: 400 mm	

DEVICE HOLDER

DEVICE HOLD		
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 above 15 cm in all the cases. It is seen that the system is operating within its specification, as the results are within acceptable tolerance of the reference values.

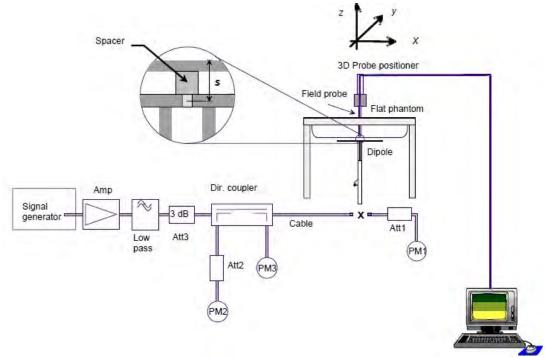


Fig. b The block diagram of system verification

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Validation Kit	ion S/N Frequency SAR-1g (MHz) (mW/g)		pin=250mW Measured SAR-1g (mW/g)	Measured SAR-1g normalized to 1W (mW/g)	Deviation (%)	Measured Date	
D2450V2	2 727 2450 Head 53.		53.9	13.33	53.32	-1.08%	Mar. 27, 2022

Validation Kit	S/N	Frequency (MHz)		1W Target SAR-1g (mW/g)	Pin=100mW Measured SAR-1g (mW/g)	Measured SAR-1g normalized to 1W (mW/g)	Deviation (%)	Measured Date	
		5250 Head		81	7.73	77.3	-4.57%	Mar. 28, 2022	
D5GHzV2	1023	5250 Head		81	7.86	78.6	-2.96%	Mar. 29, 2022	
DOGHZVZ	1023	5600	Head 84.4		8.02	80.2	-4.98%	Mar. 30, 2022	
		5750	50 Head 81		8.54	85.4	5.43%	Mar. 31, 2022	

Table 1. Results of system validation

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1.10 Tissue Simulant Fluid for the Frequency Band

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

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

The depth of the tissue simulant in the flat section of the phantom was \geq 15 cm \pm 5

mm during all tests. (Fig. 2)

IIIII uul	nng all tests.	(1 lg. 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	39.285	1.757	39.275	1.766	-0.03%	0.47%
		2412	39.268	1.766	39.257	1.774	-0.03%	0.45%
		2437	39.223	1.788	39.212	1.796	-0.03%	0.40%
	Mar. 27, 2022	2441	39.216	1.792	39.205	1.799	-0.03%	0.39%
		2450	39.200	1.800	39.189	1.807	-0.03%	0.38%
		2462	39.185	1.813	39.174	1.817	-0.03%	0.24%
		2480	39.162	1.827	39.151	1.833	-0.03%	0.37%
		5190	36.010	4.645	35.986	4.639	-0.07%	-0.13%
	Mar. 28, 2022	5210	35.990	4.665	35.964	4.659	-0.07%	-0.13%
	IVIAI . 20, 2022	5230	35.970	4.686	35.941	4.680	-0.08%	-0.13%
		5250	35.950	4.706	35.918	4.700	-0.09%	-0.13%
Head		5250	35.950	4.706	36.671	4.796	2.01%	1.91%
neau	Mar. 20, 2022	5270	35.930	4.727	36.648	4.817	2.00%	1.91%
	Mar. 30, 2022	5290	35.910	4.747	36.625	4.838	1.99%	1.91%
		5310	35.890	4.768	36.602	4.859	1.98%	1.91%
		5530	35.605	4.997	35.598	4.988	-0.02%	-0.16%
		5570	35.545	5.039	35.552	5.029	0.02%	-0.19%
	Mar. 31, 2022	5600	35.500	5.070	35.518	5.060	0.05%	-0.21%
		5610	35.490	5.080	35.506	5.070	0.05%	-0.20%
		5690	35.410	5.160	35.415	5.151	0.01%	-0.17%
		5750	35.350	5.220	35.346	5.213	-0.01%	-0.14%
	Amr. 04, 2000	5755	35.345	5.225	35.341	5.218	-0.01%	-0.14%
	Apr. 01, 2022	5775	35.325	5.245	35.318	5.238	-0.02%	-0.13%
		5795	35.305	5.265	35.295	5.259	-0.03%	-0.12%
	T	0 D: I (, , , , , ,	<u> </u>			

Table 2. Dielectric Parameters of Tissue Simulant Fluid

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The composition of the brain tissue simulating liquid is:

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

Broad-band head tissue simulating	L SPEAG PRODUCE I	Frequency range (MHz)	Main Ingredients
liquids	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 ($\delta \mathcal{T}/\delta t$) in the liquid.

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

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

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

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

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- 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.

- 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).
- 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.
- Limits for General Population/Uncontrolled exposure: 0.08 W/kg as averaged over the whole-body and spatial peak SAR not exceeding 1.6 W/kg as averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the hands, wrists, feet and ankles where the spatial peak SAR shall not exceed 4 W/kg, as averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube). General Population/Uncontrolled limits apply when the general public may be exposed, or when persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or do not

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

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

Table 4. RF exposure limits

Notes:

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

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2. Summary of Results

2.1 Decision rules

Reported measurement data comply with IEEE 1528-2013:

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

2.2 Summary of Results

Notebook mode

An	t Main											
Ma	Mode	Position	Distance	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Avg. Power	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Plot page
	Mode		(mm)	l Gii						Measured	Reported	Flot page
		Bottom Surface	0	1	2412	19.50	19.41	1.008	102.09%	0.911	0.938	
	WLAN 802.11b	Bottom Surface	0	6	2437	20.00	19.92	1.008	101.86%	0.923	0.948	
		Bottom Surface	0	11	2462	20.00	19.99	1.008	100.23%	0.936	0.946	67

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Plot page
	Position		CH		Tolerance (dBm)				Measured	Reported	Plot page
WLAN 802.11n(40M) 5.2G	Bottom Surface	0	38	5190	18.00	17.92	1.038	101.86%	1.010	1.068	68
WLAN 802.11h(40M) 5.2G	Bottom Surface	0	46	5230	18.00	17.98	1.038	100.46%	0.962	1.003	
WLAN 802.11ac(80M) 5.2G	Bottom Surface	0	42	5210	18.00	17.99	1.078	100.23%	1.030	1.113	69
	Bottom Surface*	0	42	5210	18.00	17.99	1.078	100.23%	0.997	1.077	-

Mode	Position Distance		CH	Freq.	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle	Power	Averaged SAR	over 1g (W/kg)	Plot page
Wode	Position	(mm)	On	(MHz)	Tolerance (dBm)		scaling	scaling	Measured Reported 0.827 0.866	Reported	Plot page
WLAN 802.11n(40M) 5.3G	Bottom Surface	0	54	5270	17.50	17.46	1.038	100.93%	0.827	0.866	70
WEAN 602. THI(40M) 5.3G	Bottom Surface	0	62	5310	16.50	16.49	1.038	100.23%	0.679	0.706	-
WI AN 802 11ac(80M) 5 3G	Bottom Surface	0	58	5290	17.50	17.49	1.078	100.23%	0.844	0.912	71
WEAR 602.11ac(60W) 5.3G	Bottom Surface*	0	58	5290	17.50	17.49	1.078	100.23%	0.823	0.889	

Mode	Position Distance (mm)		CH	Freq. (MHz)	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle	Power	Averaged SAR	over 1g (W/kg)	Plot page
Wiode		OI1	(MHz)	Tolerance (dBm)		scaling	scaling	Measured	Reported	1 lot page	
W/ AN 902 11 cc/90M) E 6C	Bottom Surface	0	106	5530	16.50	16.46	1.078	100.93%	0.894	0.973	72
	Bottom Surface	0	138	5690	16.50	16.45	1.078	101.16%	0.861	0.939	-

Mode	Position Distance		CH	Freq.	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle	Power	Averaged SAR	over 1g (W/kg)	Dieteres
Mode	Position	osition (mm)	Сп	(MHz)	Tolerance (dBm)		scaling	scaling	Measured	Reported	Plot page
WLAN 802.11n(40M) 5.8G	Bottom Surface	0	151	5755	17.50	17.42	1.038	101.86%	0.925	0.978	73
WLAIN 602.1111(40W) 5.6G	Bottom Surface	0	159	5795	17.50	17.47	1.038	100.69%	0.852	0.891	-
	Bottom Surface	0	155	5775	17.50	17.44	1.078	101.39%	0.905	0.989	74

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

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					Max. Rated Avg.	Measured			Averaged SAR	over 1g (W/kg)	
Mode	Position	Distance (mm)	CH	Freq. (MHz)	Power + Max. Tolerance (dBm)	Avg. Power (dBm)	Duty cycle scaling	Power scaling	Measured	Reported	Plot page
	Bottom Surface	0	1	2412	17.50	17.49	1.008	100.23%	1.050	1.061	-
WLAN 802.11b	Bottom Surface	0	6	2437	17.50	17.48	1.008	100.46%	1.090	1.104	75
WEATH OUZ. I ID	Bottom Surface*	0	6	2437	17.50	17.48	1.008	100.46%	1.020	1.033	-
	Bottom Surface	0	11	2462	17.50	17.47	1.008	100.69%	1.060	1.076	-
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	5 (5)	- PKot page
					Toloranoo (abiii)	(45)			Measured	Reported	
Bluetooth	Bottom Surface	0	0	2402	10.00	9.34	1.295	116.41%	0.124	0.187	76
(GFSK)	Bottom Surface	0	39	2441	10.00	9.40	1.295	114.82%	0.115	0.171	-
(=:=:7	Bottom Surface	0	78	2480	10.00	9.75	1.295	105.93%	0.108	0.148	-
Mode	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle scaling	Power scaling	Averaged SAR ove (W/kg)		Plot page
		(11111)		(IVII IZ)	Tolerance (dBm)	(dBm)	scaling	scaling	Measured	Reported	
WLAN 802.11n(40M)5.2G	Bottom Surface	0	38	5190	18.50	18.48	1.038	100.46%	0.852	0.888	-
. ,	Bottom Surface	0	46	5230	18.50	18.43	1.038	101.62%	0.918	0.968	77
VLAN 802.11ac(80M) 5.2G	Bottom Surface	0	42	5210	18.50	18.49	1.078	100.23%	0.918	0.992	78
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	over 1g (W/kg)	Plot page
VLAN 802.11ac(80M) 5.3G	Bottom Surface	0	58	5290	17.00	16.99	1.078	100.23%	0.713	0.770	79
NLAN 802.11ac(80M) 5.3G Mode	Bottom Surface Position	Distance (mm)	58 CH	5290 Freq. (MHz)	17.00 Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	1.078 Duty cycle scaling	100.23% Power scaling	0.713 Averaged SAR Measured	0.770 over 1g (W/kg)	79 Plot page
,	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	0.770 over 1g (W/kg) Reported	Plot page
Mode	Position Bottom Surface	Distance (mm)	CH 106	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR Measured 0.994	0.770 over 1g (W/kg) Reported 1.079	- Plot page
,	Position Bottom Surface	Distance (mm)	CH 106 138	Freq. (MHz) 5530 5690	Max. Rated Avg. Power + Max. Tolerance (dBm) 17.50 17.50	Measured Avg. Power (dBm) 17.47 17.42	Duty cycle scaling 1.078 1.078	Power scaling 100.69% 101.86%	Averaged SAR Measured 0.994 1.000	0.770 over 1g (W/kg) Reported 1.079 1.098	Plot pa
Mode WLAN 802.11ac(80M) 5.6G	Position Bottom Surface Bottom Surface*	Distance (mm) 0 0	CH 106 138 138	Freq. (MHz) 5530 5690 5690	Max. Rated Avg. Power + Max. Tolerance (dBm) 17.50 17.50 17.50	Measured Avg. Power (dBm) 17.47 17.42 17.42 Measured	Duty cycle scaling 1.078 1.078 1.078	Power scaling 100.69% 101.86% 101.86%	Averaged SAR Measured 0.994 1.000 0.956	0.770 over 1g (W/kg) Reported 1.079	- Plot page
Mode	Position Bottom Surface Bottom Surface* Position	Distance (mm) 0 0 0 Distance (mm)	CH 106 138 138 CH	Freq. (MHz) 5530 5690 5690 Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm) 17.50 17.50 17.50 Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm) 17.47 17.42 17.42 17.42 Measured Avg. Power (dBm)	Duty cycle scaling 1.078 1.078 1.078 Duty cycle scaling	Power scaling 100.69% 101.86% 101.86% Power scaling	Averaged SAR Measured 0.994 1.000 0.956 Averaged SAR Measured	0.770 over 1g (W/kg) Reported 1.079 1.098 1.050 over 1g (W/kg) Reported	Plot page
Mode VLAN 802.11ac(80M) 5.6G Mode	Position Bottom Surface Bottom Surface Bottom Surface' Position Bottom Surface	Distance (mm) 0 0 0 0 Distance (mm)	CH 106 138 138 138 CH	Freq. (MHz) 5530 5690 5690 Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm) 17.50 17.50 17.50 Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm) 17.47 17.42 17.42 Measured Avg. Power (dBm)	Duty cycle scaling 1.078 1.078 1.078 1.078 Duty cycle scaling	Power scaling 100.69% 101.86% 101.86% Power scaling 100.46%	Averaged SAR Measured 0.994 1.000 0.956 Averaged SAR Measured 1.020	0.770 over 1g (W/kg) Reported 1.079 1.059 1.050 over 1g (W/kg)	Plot page
Mode WLAN 802.11ac(80M) 5.6G	Position Bottom Surface Bottom Surface* Position	Distance (mm) 0 0 0 Distance (mm)	CH 106 138 138 CH	Freq. (MHz) 5530 5690 5690 Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm) 17.50 17.50 17.50 Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm) 17.47 17.42 17.42 17.42 Measured Avg. Power (dBm)	Duty cycle scaling 1.078 1.078 1.078 Duty cycle scaling	Power scaling 100.69% 101.86% 101.86% Power scaling	Averaged SAR Measured 0.994 1.000 0.956 Averaged SAR Measured	0.770 over 1g (W/kg) Reported 1.079 1.098 1.050 over 1g (W/kg) Reported	Plot page

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

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Tablet mode

Ant Main											
Mode	Position	Distance	СН	Freq.	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle	Power	Averaged SAR	over 1g (W/kg)	Plot page
	Position	(mm)	ОП	(MHz)	Tolerance (dBm)	(dBm)	scaling	scaling	Measured	Reported	riot page
	Back Surface	0	1	2412	15.00	14.99	1.008	100.23%	0.953	0.963	-
	Back Surface	0	6	2437	15.00	14.96	1.008	100.93%	0.966	0.983	83
MII ANI 802 11h	Top Edge	0	1	2412	15.00	14.99	1.008	100.23%	0.369	0.373	-
WLAN 802.11b	Bottom Edge	0	1	2412	15.00	14.99	1.008	100.23%	0.001	0.001	
	Left Edge	0	1	2412	15.00	14.99	1.008	100.23%	0.001	0.001	
	Right Edge	0	1	2412	15.00	14.99	1.008	100.23%	0.001	0.001	-

Mode	Position Distance	Distance		Freq.	Max. Rated Avg.	Measured	Duty cycle	Power	Averaged SAR	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	42	5210	12.50	12.46	1.078	100.93%	0.827	0.900	84
WLAN 802.11ac	Top Edge	0	42	5210	12.50	12.46	1.078	100.93%	0.328	0.357	-
(M08)	Bottom Edge	0	42	5210	12.50	12.46	1.078	100.93%	0.001	0.001	-
5.2G	Left Edge	0	42	5210	12.50	12.46	1.078	100.93%	0.041	0.045	-
	Right Edge	0	42	5210	12.50	12.46	1.078	100.93%	0.027	0.029	-
	Back Surface	0	50	5250	12.50	12.49	1.018	100.23%	0.850	0.867	85
WLAN 802.11ac	Top Edge	0	50	5250	12.50	12.49	1.018	100.23%	0.356	0.363	-
(160M)	Bottom Edge	0	50	5250	12.50	12.49	1.018	100.23%	0.001	0.001	-
5.2G	Left Edge	0	50	5250	12.50	12.49	1.018	100.23%	0.050	0.051	-
	Right Edge	0	50	5250	12.50	12.49	1.018	100.23%	0.039	0.040	-

Mode		Distance		Freq.	Max. Rated Avg.	Measured	Duty cycle	Power	Averaged SAR	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	54	5270	12.50	12.49	1.038	100.23%	0.917	0.954	86
	Back Surface*	0	54	5270	12.50	12.49	1.038	100.23%	0.902	0.938	
WLAN 802.11n	Back Surface	0	62	5310	12.50	12.47	1.038	100.69%	0.871	0.910	-
(40M)	Top Edge	0	54	5270	12.50	12.49	1.038	100.23%	0.357	0.371	-
5.3G	Bottom Edge	0	54	5270	12.50	12.49	1.038	100.23%	0.001	0.001	-
	Left Edge	0	54	5270	12.50	12.49	1.038	100.23%	0.047	0.049	
	Right Edge	0	54	5270	12.50	12.49	1.038	100.23%	0.032	0.033	-
	Back Surface	0	58	5290	12.50	12.45	1.078	101.16%	0.844	0.920	87
WLAN 802.11ac	Top Edge	0	58	5290	12.50	12.45	1.078	101.16%	0.334	0.364	-
(M08)	Bottom Edge	0	58	5290	12.50	12.45	1.078	101.16%	0.001	0.001	
5.3G	Left Edge	0	58	5290	12.50	12.45	1.078	101.16%	0.043	0.047	-
	Right Edge	0	58	5290	12.50	12.45	1.078	101.16%	0.030	0.033	

Mode	Position	Distance	СН	Freq.	Max. Rated Avg. Power + Max.	Measured	Duty cycle	Power	Averaged SAR	over 1g (W/kg)	Plot page
Wode	Position	(mm)	СП	(MHz)	Tolerance (dBm)	Avg. Power (dBm)	scaling	scaling	Measured	Reported	Plot page
	Back Surface	0	106	5530	11.50	11.47	1.078	100.69%	0.932	1.012	-
W/I ANI 902 1100	Back Surface	0	138	5690	11.50	11.46	1.078	100.93%	1.020	1.110	88
WLAN 802.11ac (80M)	Top Edge	0	138	5690	11.50	11.46	1.078	100.93%	0.342	0.372	-
5.6G	Bottom Edge	0	138	5690	11.50	11.46	1.078	100.93%	0.001	0.001	-
5.6G	Left Edge	0	138	5690	11.50	11.46	1.078	100.93%	0.050	0.054	-
	Right Edge	0	138	5690	11.50	11.46	1.078	100.93%	0.036	0.039	-
	Back Surface	0	114	5570	11.50	11.49	1.018	100.23%	1.030	1.051	89
WLAN 802.11ac	Top Edge	0	114	5570	11.50	11.49	1.018	100.23%	0.288	0.294	-
(160M)	Bottom Edge	0	114	5570	11.50	11.49	1.018	100.23%	0.001	0.001	-
5.6G	Left Edge	0	114	5570	11.50	11.49	1.018	100.23%	0.051	0.052	-
	Right Edge	0	114	5570	11.50	11.49	1.018	100.23%	0.043	0.044	-

Mode		Distance	СН	Freq.	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle	Power	Averaged SAR	over 1g (W/kg)	Plot page
Wode	Position	(mm)	СП	(MHz)	Tolerance (dBm)	(dBm)	scaling	scaling	Measured	Reported	Plot page
	Back Surface	0	151	5755	11.50	11.48	1.038	100.46%	1.020	1.064	90
WLAN 802.11n	Back Surface	0	159	5795	11.50	11.44	1.038	101.39%	1.010	1.063	-
(40M)	Top Edge	0	151	5755	11.50	11.48	1.038	100.46%	0.308	0.321	-
5.8G	Bottom Edge	0	151	5755	11.50	11.48	1.038	100.46%	0.001	0.001	-
3.00	Left Edge	0	151	5755	11.50	11.48	1.038	100.46%	0.054	0.056	-
	Right Edge	0	151	5755	11.50	11.48	1.038	100.46%	0.001	0.001	-
	Back Surface	0	155	5775	11.50	11.43	1.078	101.62%	1.010	1.106	91
WLAN 802.11ac	Top Edge	0	155	5775	11.50	11.43	1.078	101.62%	0.311	0.341	-
(M08)	Bottom Edge	0	155	5775	11.50	11.43	1.078	101.62%	0.001	0.001	-
5.8G	Left Edge	0	155	5775	11.50	11.43	1.078	101.62%	0.065	0.071	-
	Right Edge	0	155	5775	11.50	11.43	1.078	101.62%	0.037	0.041	-

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

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Ant Aux											
Mode	Position	Distance	CH	Freq.	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle	Power	Averaged SAR	over 1g (W/kg)	Plot page
Wiode	Position	(mm)	GII	(MHz)	Tolerance (dBm)	(dBm)	scaling	scaling	Measured	Reported	Flot page
	Back Surface	0	1	2412	13.00	12.95	1.008	101.16%	0.940	0.958	-
	Back Surface	0	6	2437	13.00	12.96	1.008	100.93%	0.982	0.999	92
	Back Surface*	0	6	2437	13.00	12.96	1.008	100.93%	0.945	0.961	-
WLAN 802.11b	Back Surface	0	11	2462	13.00	12.99	1.008	100.23%	0.951	0.961	-
WEAT 002.11b	Top Edge	0	1	2412	13.00	12.95	1.008	101.16%	0.266	0.271	-
	Bottom Edge	0	11	2462	13.00	12.99	1.008	100.23%	0.001	0.001	-
	Left Edge	0	11	2462	13.00	12.99	1.008	100.23%	0.001	0.001	-
	Right Edge	0	11	2462	13.00	12.99	1.008	100.23%	0.001	0.001	

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

Mode	Position	Distance	СН	Freq.	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle	Power	Averaged S (W/		Plot page
Wode	Position	(mm)	GII	(MHz)	Tolerance (dBm)	(dBm)	scaling	scaling	Measured	Reported	1 lot page
WLAN 802.11ac (80M)	Back Surface	0	42	5210	13.00	12.99	1.078	100.23%	1.040	1.124	94
	Top Edge	0	42	5210	13.00	12.99	1.078	100.23%	0.622	0.672	-
	Bottom Edge	0	42	5210	13.00	12.99	1.078	100.23%	0.001	0.001	-
5.2G	Left Edge	0	42	5210	13.00	12.99	1.078	100.23%	0.001	0.001	-
	Right Edge	0	42	5210	13.00	12.99	1.078	100.23%	0.001	0.001	-
	Back Surface	0	50	5250	13.00	12.98	1.018	100.46%	1.090	1.115	95
WLAN 802.11ac	Back Surface*	0	50	5250	13.00	12.98	1.018	100.46%	1.040	1.064	-
	Top Edge	0	50	5250	13.00	12.98	1.018	100.46%	0.478	0.489	-
(160M) 5.2G	Bottom Edge	0	50	5250	13.00	12.98	1.018	100.46%	0.001	0.001	-
	Left Edge	0	50	5250	13.00	12.98	1.018	100.46%	0.001	0.001	-
	Right Edge	0	50	5250	13.00	12.98	1.018	100.46%	0.042	0.043	-

Mode	Distance		СН	Freq.	Max. Rated Avg.	Measured Avg. Power	Duty cycle	Power	Averaged SAR over 1g (W/kg)		Plot page
Mode	Position	(mm)	СН	(MHz)	Power + Max. Tolerance (dBm)	(dBm)	scaling	scaling	Measured	Reported	Plot page
	Back Surface	0	54	5270	12.00	11.96	1.038	100.93%	0.805	0.843	96
14// 41/ 000 44-	Back Surface	0	62	5310	12.00	11.94	1.038	101.39%	0.725	0.763	
WLAN 802.11n	Top Edge	0	54	5270	12.00	11.96	1.038	100.93%	0.429	0.449	
(40M)	Bottom Edge	0	54	5270	12.00	11.96	1.038	100.93%	0.001	0.001	
5.3G	Left Edge	0	54	5270	12.00	11.96	1.038	100.93%	0.001	0.001	
	Right Edge	0	54	5270	12.00	11.96	1.038	100.93%	0.001	0.001	
	Back Surface	0	58	5290	12.00	11.99	1.078	100.23%	0.773	0.835	97
WLAN 802.11ac	Top Edge	0	58	5290	12.00	11.99	1.078	100.23%	0.560	0.605	
(M08)	Bottom Edge	0	58	5290	12.00	11.99	1.078	100.23%	0.001	0.001	
5.3G	Left Edge	0	58	5290	12.00	11.99	1.078	100.23%	0.001	0.001	
	Right Edge	0	58	5290	12.00	11.99	1.078	100.23%	0.001	0.001	-

Mode	Desiden	Distance	CH	Freq.	Max. Rated Avg.	Measured	Duty cycle	Power	Averaged SAR	over 1g (W/kg)	Plot page
Mode	Position	(mm)	СН	(MHz)	Power + Max. Tolerance (dBm)	Avg. Power (dBm)	scaling	scaling	Measured	Reported	
	Back Surface	0	106	5530	13.50	13.44	1.078	101.39%	1.080	1.180	98
	Back Surface*	0	106	5530	13.50	13.44	1.078	101.39%	0.991	1.083	-
WLAN 802.11ac	Back Surface	0	122	5610	13.50	13.38	1.078	102.80%	0.956	1.059	-
	Back Surface	0	138	5690	13.50	13.49	1.078	100.23%	1.000	1.080	-
(80M)	Top Edge	0	138	5690	13.50	13.49	1.078	100.23%	0.712	0.769	-
5.6G	Bottom Edge	0	138	5690	13.50	13.49	1.078	100.23%	0.001	0.001	-
	Left Edge	0	138	5690	13.50	13.49	1.078	100.23%	0.001	0.001	-
	Right Edge	0	138	5690	13.50	13.49	1.078	100.23%	0.065	0.070	-
	Back Surface	0	114	5570	13.50	13.45	1.018	101.16%	1.110	1.143	99
M/I ANI 000 44ee	Back Surface*	0	114	5570	13.50	13.45	1.018	101.16%	1.020	1.050	-
WLAN 802.11ac (160M) 5.6G	Top Edge	0	114	5570	13.50	13.45	1.018	101.16%	0.776	0.799	-
	Bottom Edge	0	114	5570	13.50	13.45	1.018	101.16%	0.001	0.001	-
	Left Edge	0	114	5570	13.50	13.45	1.018	101.16%	0.001	0.001	-
	Right Edge	0	114	5570	13.50	13.45	1 018	101 16%	0.062	0.064	_

Modo		Distance		Freq.	Max. Rated Avg.	Measured	Duty cycle	Power	Averaged SAR over 1g (W/kg)		Plot page
Mode	Position	(mm)	CH	(MHz)	Power + Max. Tolerance (dBm)	Avg. Power (dBm)	scaling	scaling	Measured	Reported	Plot page
	Back Surface	0	151	5755	14.00	13.99	1.038	100.23%	1.120	1.165	100
	Back Surface*	0	151	5755	14.00	13.99	1.038	100.23%	1.050	1.092	-
WLAN 802.11n	Back Surface	0	159	5795	14.00	13.97	1.038	100.69%	0.995	1.040	-
(40M)	Top Edge	0	151	5755	14.00	13.99	1.038	100.23%	0.916	0.953	-
5.8G	Top Edge	0	159	5795	14.00	13.97	1.038	100.69%	0.838	0.876	-
5.66	Bottom Edge	0	151	5755	14.00	13.99	1.038	100.23%	0.001	0.001	-
	Left Edge	0	151	5755	14.00	13.99	1.038	100.23%	0.001	0.001	-
	Right Edge	0	151	5755	14.00	13.99	1.038	100.23%	0.060	0.062	-
	Bottom Surface	0	155	5775	17.50	17.47	1.078	100.69%	0.982	1.066	-
WLAN 802.11ac	Back Surface	0	155	5775	14.00	13.96	1.078	100.93%	1.080	1.175	101
	Top Edge	0	155	5775	14.00	13.96	1.078	100.93%	0.964	1.049	-
(M0M)	Bottom Edge	0	155	5775	14.00	13.96	1.078	100.93%	0.001	0.001	-
5.8G	Left Edge	0	155	5775	14.00	13.96	1.078	100.93%	0.001	0.001	-
	Right Edge	0	155	5775	14.00	13.96	1.078	100.93%	0.061	0.066	

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

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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 Main + BT Aux	Yes
WLAN 2.4GHz Main + WLAN 2.4GHz Aux	Yes
WLAN 5GHz Main + BT Aux	Yes
WLAN 5GHz Main + WLAN 5GHz Aux	Yes
WLAN 5GHz Main + WLAN 5GHz Aux + BT Aux	Yes

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3.1 Estimated SAR calculation

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

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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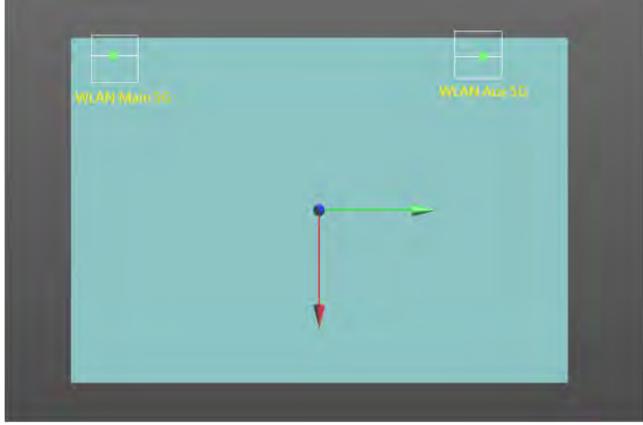


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							Scenario1	Scenario2	Scenario3	Scenario4	Scenario5
		1	2	3	4	6	1+2	1+6	3+4+6	3+4	3+6
Exposure Pos	ition	2.4GHz WLAN Main	2.4GHz WLAN Aux	5GHz WLAN Main	5GHz WLAN Aux	Bluetooth Aux	Summed	Summed	Summed	Summed	Summed
		1g SAR (W/kg)	1g SAR (W/kg)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

Notebook mode

11010000	totobook modo												
	Scenario 1: WLAN 2.4GHz Main+WLAN 2.4GHz Aux Bottom Surface												
Position Co	Conditions	SAR Value	Coordinates (cm)			ΣSAR	Peak Location	SPLSR	Simultaneous Transmission				
FOSILIOIT	Conditions	(W/kg)	х	у	Z	(W/kg)	Separation Distance (mm)	3. 20K	SAR Test				
Bottom Surface	WLAN 2.4G Main	0.948	-9.759	-13.301	0.624	-	-	-	-				
Bottom Sunace	WLAN 2.4G Aux	1.104	-9.715	10.561	0.576	2.052	292.95	0.010	SPLSR ≤ 0.04, Not required				



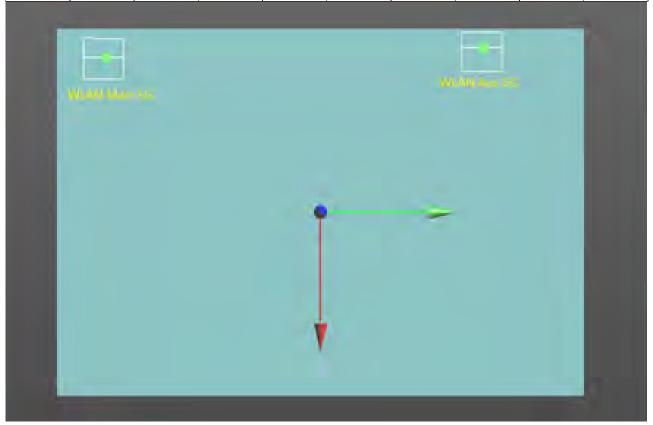
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	Scenario 2: WLAN 5GHz Main+WLAN 5GHz Aux Bottom Surface												
Position Conditions	Conditions	SAR Value		Coordinates (cm)		ΣSAR	Peak Location	SPLSR	Simultaneous Transmission SAR Test				
	Conditions	(W/kg)	х	у	Z	(W/kg)	Separation Distance (mm)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



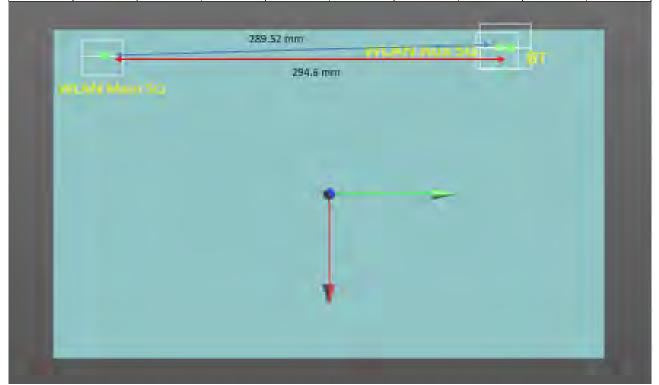
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	Scenario 3: WLAN 5GHz Main+WLAN 5GHz Aux+BT Aux Back Surace												
Position	Conditions	SAR Value	Coordinates (cm)			ΣSAR	Peak Location	SPLSR	Simultaneous Transmission				
Position	Conditions	(W/kg)	х	у	z	(W/kg)	Separation Distance (mm)	SPLSK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



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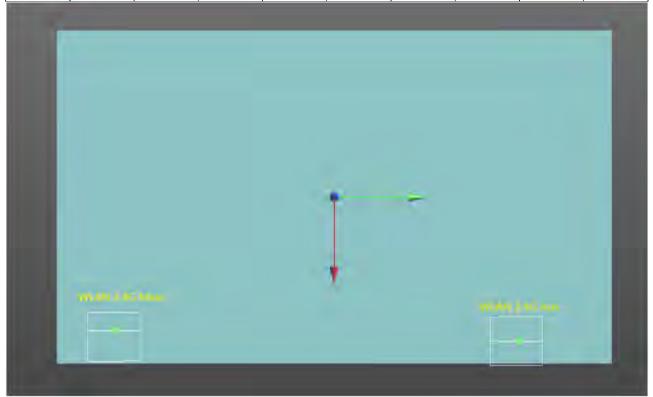
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Tablet mode

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



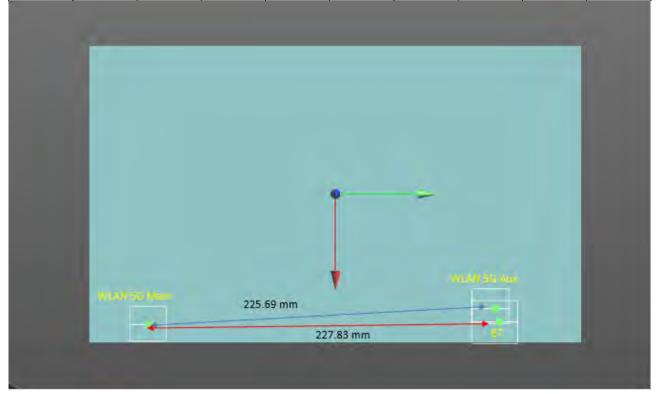
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	Scenario 2: WLAN 5GHz Main+WLAN 5GHz Aux+BT Aux Back Surace												
Position	Conditions	SAR Value (W/kg)		Coordinates (cm)		ΣSAR	Peak Location	SPLSR	Simultaneous Transmission				
			х	у	Z	(W/kg)	Separation Distance (mm)	GFLGIK	SAR Test				
Back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



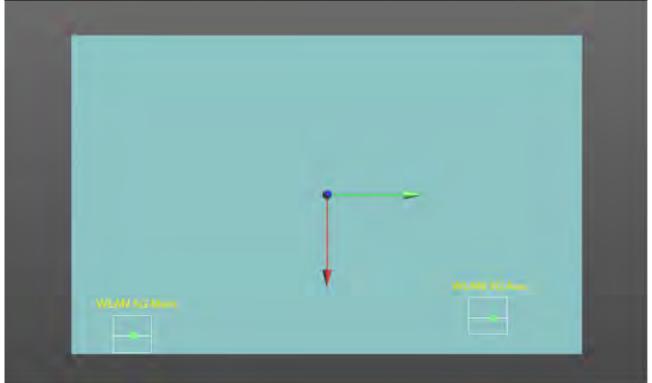
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	Scenario 3: WLAN 5GHz Main+WLAN 5GHz Aux Back Surface												
Position	Conditions	SAR Value (W/kg)		Coordinates (cm)		ΣSAR	Peak Location	SPLSR	Simultaneous Transmission SAR Test				
			х	у	Z	(W/kg)	Separation Distance (mm)						
Back Surface	WLAN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



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4. Instruments List

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

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5. Measurements

Date: 2022/3/27

Report No.: E5/2022/30001

WLAN 802.11b_Body_Bottom Surface_CH 11_0mm_Main

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

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

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(7.39, 7.39, 7.39); Calibrated: 2022/1/25

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1305; Calibrated: 2021/4/9

Phantom: ELI

DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

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

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

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

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

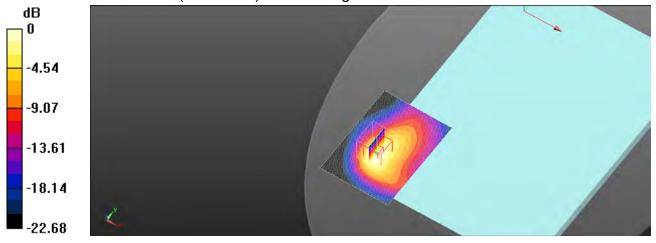
Peak SAR (extrapolated) = 1.99 W/kg

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

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

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

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



0 dB = 1.42 W/kg = 1.53 dBW/kg

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Date: 2022/3/28

Report No.: E5/2022/30001

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

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

Medium parameters used: f = 5190 MHz; σ = 4.639 S/m; ϵ_r = 35.986; ρ = 1000 kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(5.05, 5.05, 5.05); Calibrated: 2022/1/25

• Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1305; Calibrated: 2021/4/9

Phantom: ELI

DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

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

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

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

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

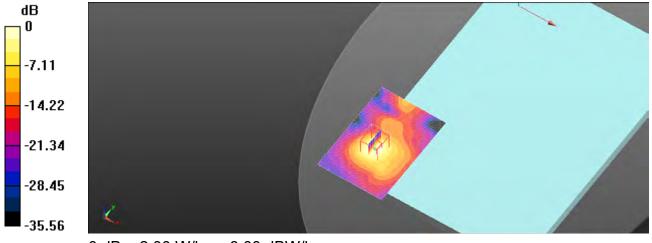
Peak SAR (extrapolated) = 3.85 W/kg

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

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

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

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



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

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Date: 2022/3/28

Report No.: E5/2022/30001

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

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

Medium parameters used: f = 5210 MHz; σ = 4.659 S/m; ϵ_r = 35.964; ρ = 1000 kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(5.05, 5.05, 5.05); Calibrated: 2022/1/25

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1305; Calibrated: 2021/4/9

Phantom: ELI

DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

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

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

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

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

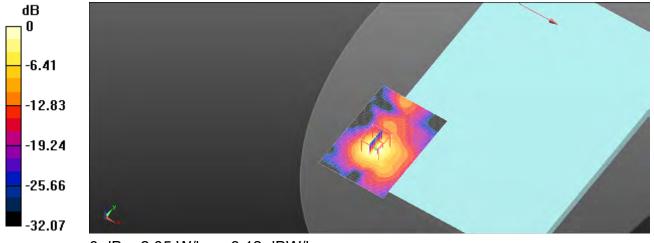
Peak SAR (extrapolated) = 3.98 W/kg

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

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

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

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



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

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Date: 2022/3/30

Report No.: E5/2022/30001

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

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

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

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(5.05, 5.05, 5.05); Calibrated: 2022/1/25

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1305; Calibrated: 2021/4/9

Phantom: ELI

DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

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

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

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

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

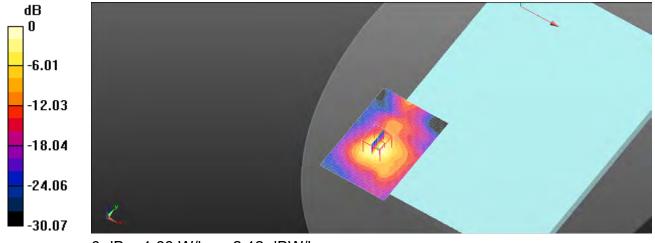
Peak SAR (extrapolated) = 3.30 W/kg

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

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

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

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



0 dB = 1.63 W/kg = 2.12 dBW/kg

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Date: 2022/3/30

Report No.: E5/2022/30001

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

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

Medium parameters used: f = 5290 MHz; σ = 4.838 S/m; ϵ_r = 36.625; ρ = 1000 kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(5.05, 5.05, 5.05); Calibrated: 2022/1/25

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1305; Calibrated: 2021/4/9

Phantom: ELI

DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

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

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

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

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

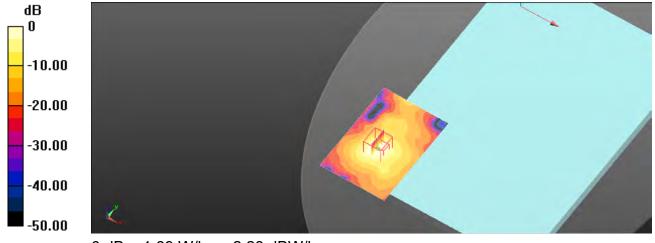
Peak SAR (extrapolated) = 7.17 W/kg

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

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

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

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



0 dB = 1.69 W/kg = 2.28 dBW/kg

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Date: 2022/3/31

Report No.: E5/2022/30001

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

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

Medium parameters used: f = 5530 MHz; σ = 4.988 S/m; ϵ_r = 35.598; ρ = 1000 kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(4.6, 4.6, 4.6); Calibrated: 2022/1/25

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1305; Calibrated: 2021/4/9

Phantom: ELI

DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

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

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

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

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

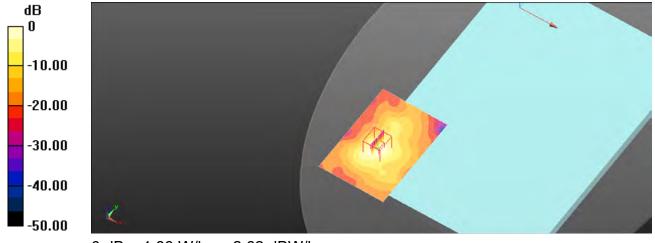
Peak SAR (extrapolated) = 3.84 W/kg

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

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

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

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



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

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Date: 2022/4/1

Report No.: E5/2022/30001

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

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

Medium parameters used: f = 5755 MHz; $\sigma = 5.218$ S/m; $\varepsilon_r = 35.341$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(4.65, 4.65, 4.65); Calibrated: 2022/1/25

• Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1305; Calibrated: 2021/4/9

Phantom: ELI

DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

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

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

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

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

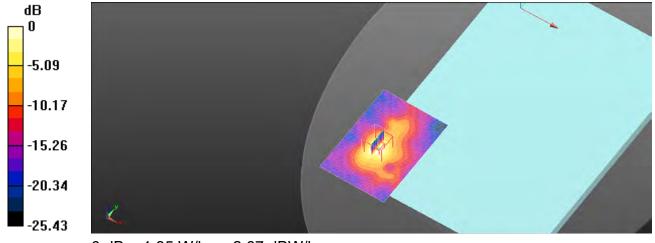
Peak SAR (extrapolated) = 4.13 W/kg

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

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

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

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



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

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Date: 2022/4/1

Report No.: E5/2022/30001

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

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

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

Phantom section: Flat Section

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

DASY5 Configuration:

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

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

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

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

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

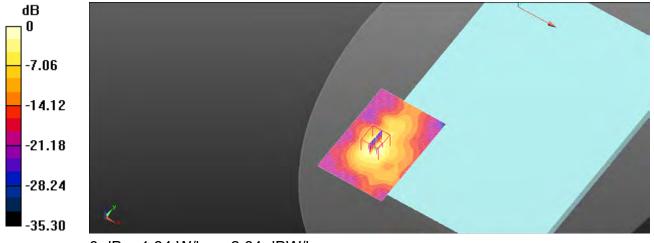
Peak SAR (extrapolated) = 4.12 W/kg

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

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

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

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



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

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Date: 2022/3/27

Report No.: E5/2022/30001

WLAN 802.11b_Body_Bottom Surface_CH 6_0mm_Aux

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

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

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(7.39, 7.39, 7.39); Calibrated: 2022/1/25

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1305; Calibrated: 2021/4/9

Phantom: ELI

DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

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

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

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

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

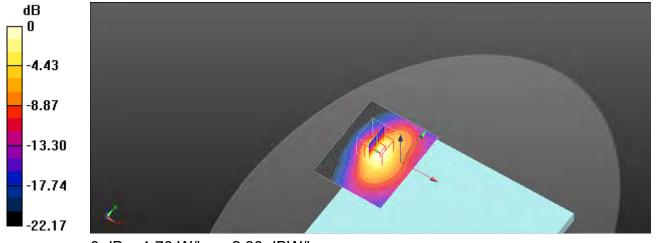
Peak SAR (extrapolated) = 2.55 W/kg

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

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

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

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



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

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Date: 2022/3/27

Report No.: E5/2022/30001

Bluetooth(GFSK)_Body_Bottom Surface_CH 0_0mm_Aux

Communication System: Bluetooth; Frequency: 2402 MHz; Duty Cycle: 1:1.295 Medium parameters used: f = 2402 MHz; $\sigma = 1.766$ S/m; $\epsilon_r = 39.275$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(7.39, 7.39, 7.39); Calibrated: 2022/1/25

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1305; Calibrated: 2021/4/9

Phantom: ELI

DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

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

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

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

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

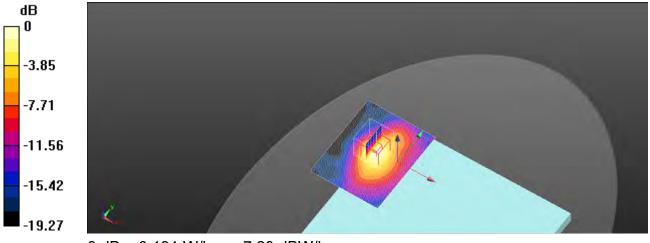
Peak SAR (extrapolated) = 0.288 W/kg

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

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

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

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



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

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Date: 2022/3/28

Report No.: E5/2022/30001

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

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

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

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(5.05, 5.05, 5.05); Calibrated: 2022/1/25

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1305; Calibrated: 2021/4/9

Phantom: ELI

DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

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

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

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

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

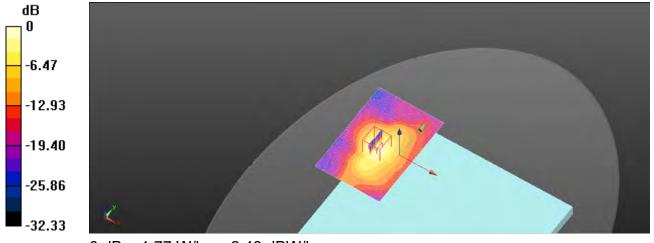
Peak SAR (extrapolated) = 3.46 W/kg

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

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

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

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



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

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Date: 2022/3/28

Report No.: E5/2022/30001

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

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

Medium parameters used: f = 5210 MHz; σ = 4.659 S/m; ϵ_r = 35.964; ρ = 1000 kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(5.05, 5.05, 5.05); Calibrated: 2022/1/25

• Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1305; Calibrated: 2021/4/9

Phantom: ELI

DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

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

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

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

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

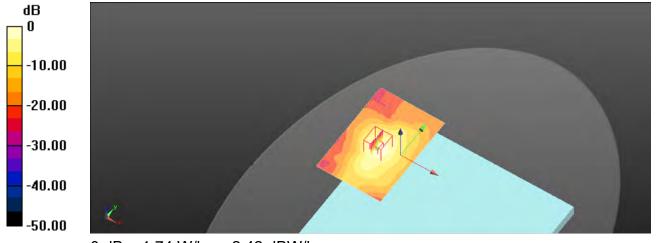
Peak SAR (extrapolated) = 3.52 W/kg

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

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

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

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



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

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Date: 2022/3/30

Report No.: E5/2022/30001

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

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

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

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(5.05, 5.05, 5.05); Calibrated: 2022/1/25

• Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1305; Calibrated: 2021/4/9

Phantom: ELI

DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

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

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

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

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

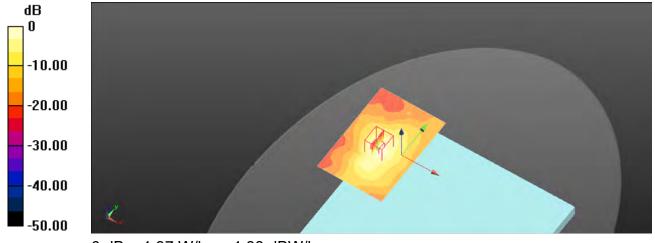
Peak SAR (extrapolated) = 2.79 W/kg

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

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

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

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



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

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Date: 2022/3/31

Report No.: E5/2022/30001

WLAN 802.11ac(80M) 5.6G Body Bottom Surface CH 138_0mm_Aux

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

Medium parameters used: f = 5690 MHz; σ = 5.151 S/m; ϵ_r = 35.415; ρ = 1000 kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

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

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

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

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

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

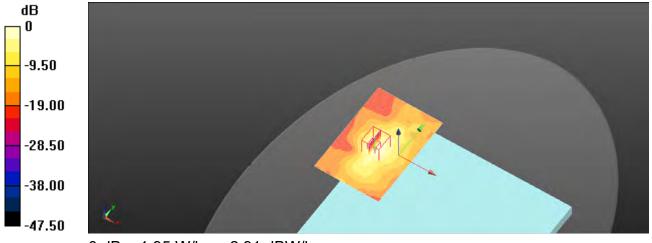
Peak SAR (extrapolated) = 4.44 W/kg

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

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

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

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



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

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Date: 2022/4/1

Report No.: E5/2022/30001

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

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

Medium parameters used: f = 5755 MHz; $\sigma = 5.218$ S/m; $\varepsilon_r = 35.341$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(4.65, 4.65, 4.65); Calibrated: 2022/1/25

• Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1305; Calibrated: 2021/4/9

Phantom: ELI

DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

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

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

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

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

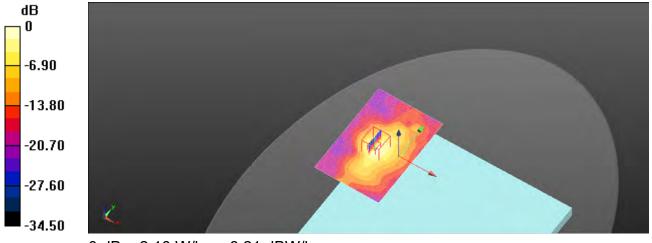
Peak SAR (extrapolated) = 4.54 W/kg

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

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

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

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



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

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Date: 2022/4/1

Report No.: E5/2022/30001

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

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

Medium parameters used: f = 5775 MHz; σ = 5.238 S/m; ϵ_r = 35.318; ρ = 1000 kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(4.65, 4.65, 4.65); Calibrated: 2022/1/25

• Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1305; Calibrated: 2021/4/9

Phantom: ELI

DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

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

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

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

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

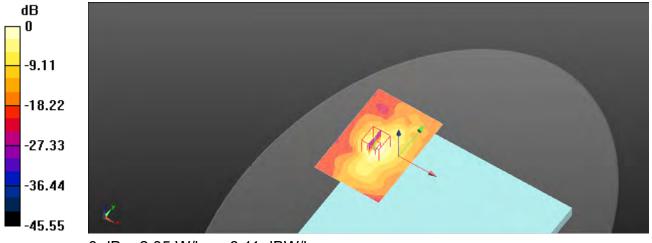
Peak SAR (extrapolated) = 4.42 W/kg

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

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

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

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



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

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Date: 2022/3/27

Report No.: E5/2022/30001

WLAN 802.11b_Body_Back Surface_CH 6_0mm_Main

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

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

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(7.39, 7.39, 7.39); Calibrated: 2022/1/25

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1305; Calibrated: 2021/4/9

Phantom: ELI

DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

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

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

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

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

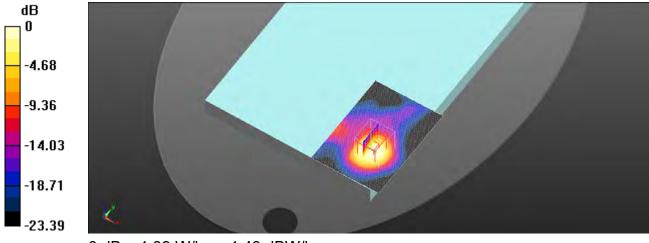
Peak SAR (extrapolated) = 1.70 W/kg

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

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

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

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



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

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Date: 2022/3/28

Report No.: E5/2022/30001

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

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

Medium parameters used: f = 5210 MHz; σ = 4.659 S/m; ϵ_r = 35.964; ρ = 1000 kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

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

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

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

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

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

Peak SAR (extrapolated) = 3.25 W/kg

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

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

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

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

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

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

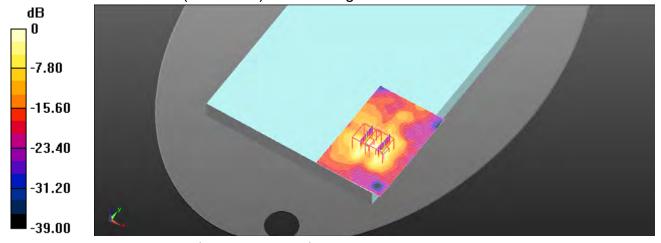
Peak SAR (extrapolated) = 3.35 W/kg

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

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

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

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



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

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Date: 2022/3/28

Report No.: E5/2022/30001

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

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

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

Phantom section: Flat Section

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

DASY5 Configuration:

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

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

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

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

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

Peak SAR (extrapolated) = 3.38 W/kg

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

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

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

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

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

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

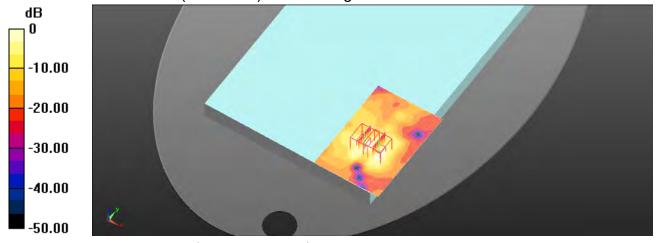
Peak SAR (extrapolated) = 3.43 W/kg

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

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

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

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



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

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Date: 2022/3/30

Report No.: E5/2022/30001

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

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

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

Phantom section: Flat Section

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

DASY5 Configuration:

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

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

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

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

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

Peak SAR (extrapolated) = 3.68 W/kg

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

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

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

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

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

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

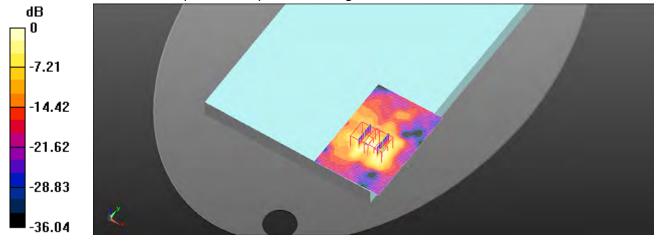
Peak SAR (extrapolated) = 3.94 W/kg

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

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

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

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



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

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Date: 2022/3/30

Report No.: E5/2022/30001

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

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

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

Phantom section: Flat Section

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

DASY5 Configuration:

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

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

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

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

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

Peak SAR (extrapolated) = 3.27 W/kg

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

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

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

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

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

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

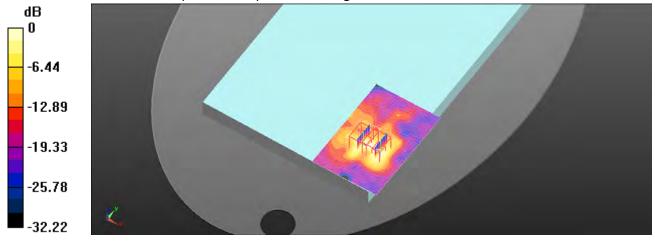
Peak SAR (extrapolated) = 3.84 W/kg

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

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

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

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



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

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Date: 2022/3/31

Report No.: E5/2022/30001

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

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

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

Phantom section: Flat Section

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

DASY5 Configuration:

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

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

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

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

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

Peak SAR (extrapolated) = 4.73 W/kg

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

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

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

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

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

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

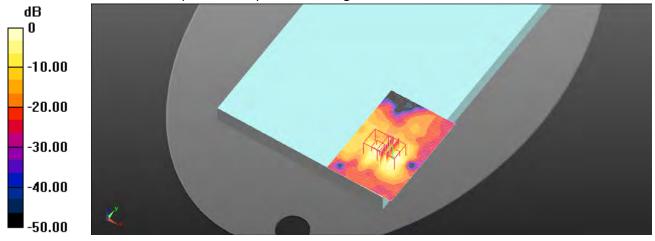
Peak SAR (extrapolated) = 3.24 W/kg

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

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

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

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



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

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Date: 2022/3/31

Report No.: E5/2022/30001

WLAN 802.11ac(160M) 5.6G Body Back Surface CH 114 0mm Main

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

Medium parameters used: f = 5570 MHz; σ = 5.029 S/m; ϵ_r = 35.552; ρ = 1000 kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(4.6, 4.6, 4.6); Calibrated: 2022/1/25

- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2021/4/9
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

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

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

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

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

Peak SAR (extrapolated) = 4.89 W/kg

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

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

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

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

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

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

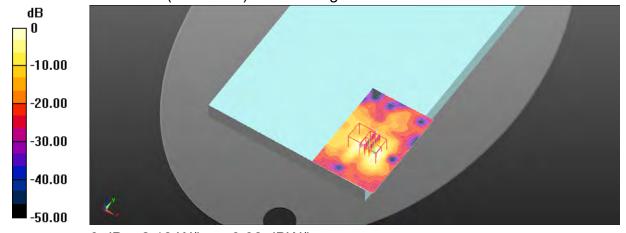
Peak SAR (extrapolated) = 4.05 W/kg

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

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

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

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



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

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Date: 2022/4/1

Report No.: E5/2022/30001

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

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

Medium parameters used: f = 5755 MHz; $\sigma = 5.218$ S/m; $\varepsilon_r = 35.341$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

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

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

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

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

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

Peak SAR (extrapolated) = 4.81 W/kg

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

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

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

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

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

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

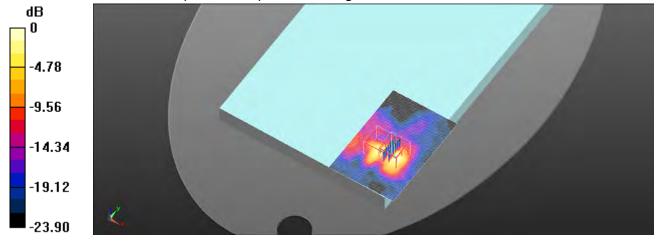
Peak SAR (extrapolated) = 3.37 W/kg

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

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

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

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



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

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Date: 2022/4/1

Report No.: E5/2022/30001

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

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

Medium parameters used: f = 5775 MHz; σ = 5.238 S/m; ϵ_r = 35.318; ρ = 1000 kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

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

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

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

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

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

Peak SAR (extrapolated) = 4.68 W/kg

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

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

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

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

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

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

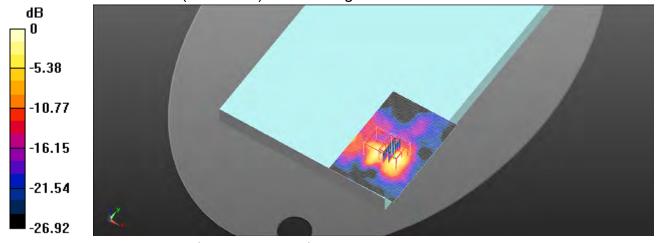
Peak SAR (extrapolated) = 3.53 W/kg

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

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

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

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



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

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Date: 2022/3/27

Report No.: E5/2022/30001

WLAN 802.11b_Body_Back Surface_CH 6_0mm_Aux

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

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

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(7.39, 7.39, 7.39)z; Calibrated: 2022/1/25

• Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1305; Calibrated: 2021/4/9

Phantom: ELI

DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

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

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

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

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

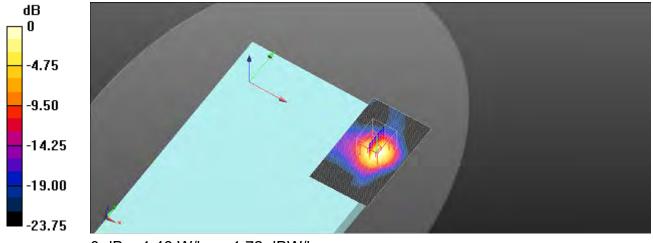
Peak SAR (extrapolated) = 2.10 W/kg

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

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

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

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



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

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Bluetooth(GFSK)_Body_Back Surface_CH 78_0mm_Aux

Communication System: Bluetooth; Frequency: 2480 MHz; Duty Cycle: 1:1.295 Medium parameters used: f = 2480 MHz; $\sigma = 1.833 \text{ S/m}$; $\varepsilon_r = 39.151$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(7.39, 7.39, 7.39); Calibrated: 2022/1/25

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1305; Calibrated: 2021/4/9

Phantom: ELI

DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

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

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

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

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

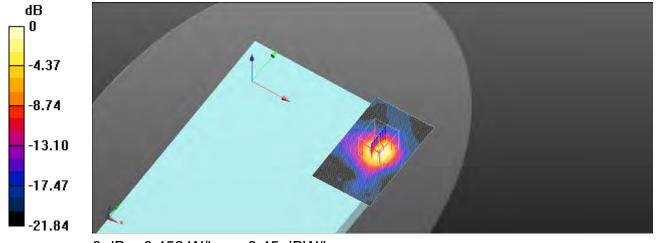
Peak SAR (extrapolated) = 0.663 W/kg

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

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

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

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



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

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Date: 2022/3/28

Report No.: E5/2022/30001

WLAN 802.11ac(80M) 5.2G Body Back Surface CH 42 0mm Aux

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

Medium parameters used: f = 5210 MHz; σ = 4.659 S/m; ϵ_r = 35.964; ρ = 1000 kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(5.05, 5.05, 5.05); Calibrated: 2022/1/25

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1305; Calibrated: 2021/4/9

Phantom: ELI

DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

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

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

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

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

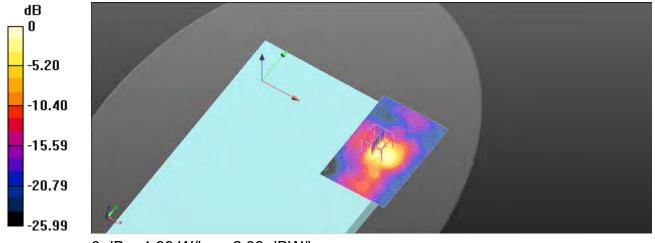
Peak SAR (extrapolated) = 3.83 W/kg

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

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

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

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



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

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Date: 2022/3/28

Report No.: E5/2022/30001

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

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

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

Phantom section: Flat Section

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

DASY5 Configuration:

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

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

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

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

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

Peak SAR (extrapolated) = 4.12 W/kg

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

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

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

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

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

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

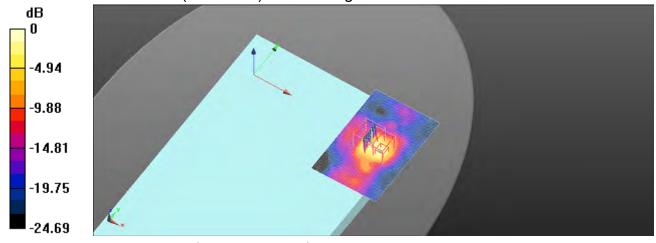
Peak SAR (extrapolated) = 3.95 W/kg

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

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

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

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



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

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Date: 2022/3/30

Report No.: E5/2022/30001

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

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

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

Phantom section: Flat Section

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

DASY5 Configuration:

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

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

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

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

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

Peak SAR (extrapolated) = 2.98 W/kg

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

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

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

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

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

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

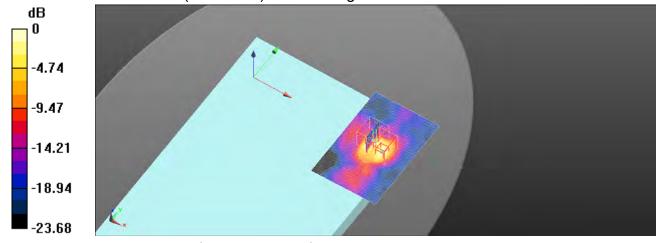
Peak SAR (extrapolated) = 2.80 W/kg

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

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

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

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



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

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Date: 2022/3/30

Report No.: E5/2022/30001

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

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

Medium parameters used: f = 5290 MHz; σ = 4.838 S/m; ϵ_r = 36.625; ρ = 1000 kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

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

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

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

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

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

Peak SAR (extrapolated) = 2.91 W/kg

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

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

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

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

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

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

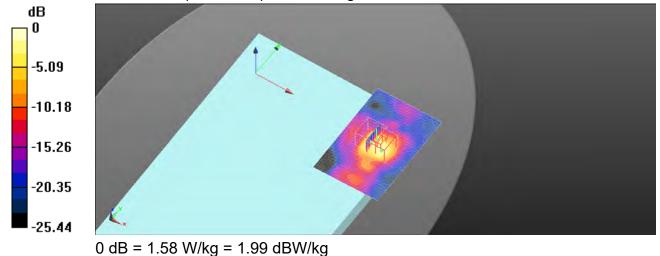
Peak SAR (extrapolated) = 2.92 W/kg

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

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

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

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



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Date: 2022/3/31

Report No.: E5/2022/30001

WLAN 802.11ac(80M) 5.6G Body Back Surface CH 106 0mm Aux

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

Medium parameters used: f = 5530 MHz; σ = 4.988 S/m; ϵ_r = 35.598; ρ = 1000 kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(4.6, 4.6, 4.6); Calibrated: 2022/1/25

- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1305; Calibrated: 2021/4/9
- Phantom: ELI
- DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

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

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

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

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

Peak SAR (extrapolated) = 4.59 W/kg

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

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

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

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

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

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

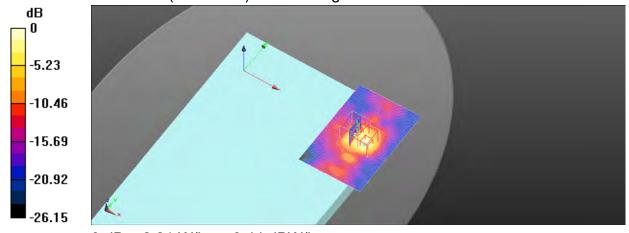
Peak SAR (extrapolated) = 4.28 W/kg

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

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

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

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



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

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Date: 2022/3/31

Report No.: E5/2022/30001

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

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

Medium parameters used: f = 5570 MHz; σ = 5.029 S/m; $ε_r$ = 35.552; ρ = 1000 kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

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

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

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

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

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

Peak SAR (extrapolated) = 4.83 W/kg

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

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

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

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

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

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

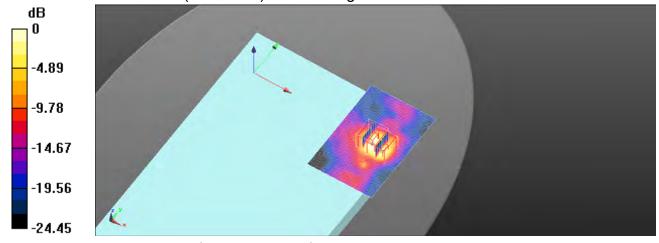
Peak SAR (extrapolated) = 5.03 W/kg

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

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

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

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



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

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Date: 2022/4/1

Report No.: E5/2022/30001

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

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

Medium parameters used: f = 5755 MHz; $\sigma = 5.218$ S/m; $\varepsilon_r = 35.341$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(4.65, 4.65, 4.65); Calibrated: 2022/1/25

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1305; Calibrated: 2021/4/9

Phantom: ELI

DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

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

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

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

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

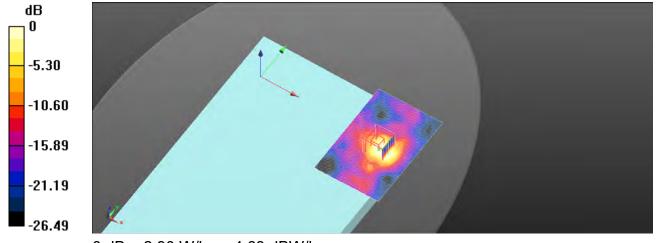
Peak SAR (extrapolated) = 6.70 W/kg

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

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

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

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



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

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Date: 2022/4/1

Report No.: E5/2022/30001

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

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

Medium parameters used: f = 5775 MHz; σ = 5.238 S/m; ϵ_r = 35.318; ρ = 1000 kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

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

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

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

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

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

Peak SAR (extrapolated) = 5.80 W/kg

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

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

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

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

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

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

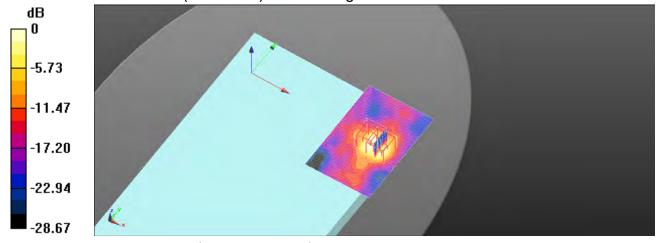
Peak SAR (extrapolated) = 5.95 W/kg

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

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

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

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



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

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6. SAR System Performance Verification

Date: 2022/3/27

Report No.: E5/2022/30001 Dipole 2450 MHz SN:727

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

Medium parameters used: f = 2450 MHz; $\sigma = 1.807 \text{ S/m}$; $\varepsilon_r = 39.189$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(7.39, 7.39, 7.39); Calibrated: 2022/1/25

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1305; Calibrated: 2021/4/9

Phantom: ELI

DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

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

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

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

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

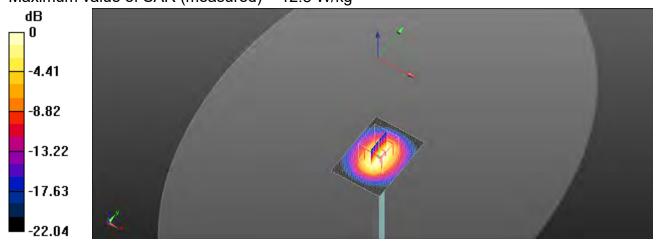
Peak SAR (extrapolated) = 17.3 W/kg

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

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

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

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



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

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Date: 2022/3/28

Report No.: E5/2022/30001 **Dipole 5250 MHz_SN:1023**

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

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

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(5.05, 5.05, 5.05); Calibrated: 2022/1/25

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1305; Calibrated: 2021/4/9

Phantom: ELI

DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

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

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

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

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

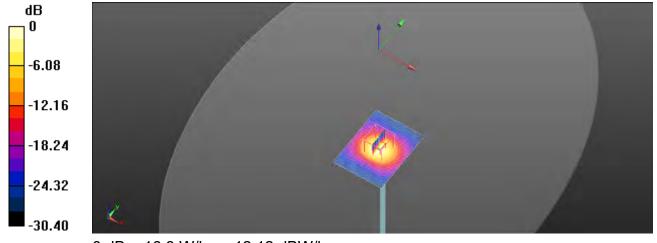
Peak SAR (extrapolated) = 33.5 W/kg

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

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

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

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



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

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Report No.: E5/2022/30001 Page: 104 of 110

Date: 2022/3/29

Report No.: E5/2022/30001 **Dipole 5250 MHz_SN:1023**

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

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

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(5.05, 5.05, 5.05); Calibrated: 2022/1/25

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1305; Calibrated: 2021/4/9

Phantom: ELI

DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

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

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

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

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

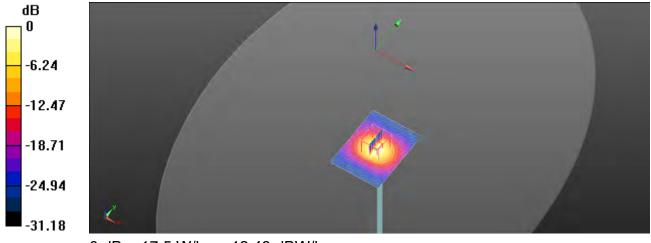
Peak SAR (extrapolated) = 36.2 W/kg

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

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

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

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



0 dB = 17.5 W/kg = 12.43 dBW/kg

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Date: 2022/3/30

Report No.: E5/2022/30001 **Dipole 5250 MHz_SN:1023**

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

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

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(5.05, 5.05, 5.05); Calibrated: 2022/1/25

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1305; Calibrated: 2021/4/9

Phantom: ELI

DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

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

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

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

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

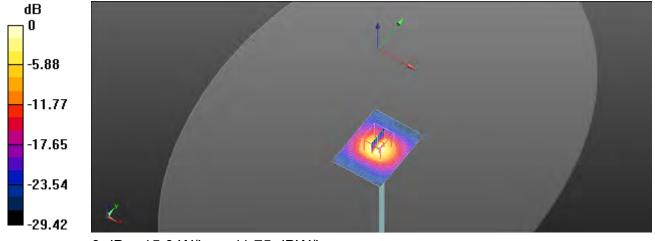
Peak SAR (extrapolated) = 30.8 W/kg

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

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

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

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



0 dB = 15.0 W/kg = 11.75 dBW/kg

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Report No.: E5/2022/30001 Page: 106 of 110

Date: 2022/3/31

Report No.: E5/2022/30001 **Dipole 5600 MHz_SN:1023**

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

Medium parameters used: f = 5600 MHz; $\sigma = 5.06 \text{ S/m}$; $\epsilon_r = 35.518$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(4.6, 4.6, 4.6); Calibrated: 2022/1/25

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1305; Calibrated: 2021/4/9

Phantom: ELI

DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

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

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

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

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

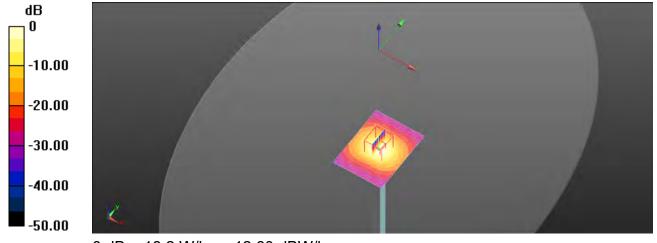
Peak SAR (extrapolated) = 41.5 W/kg

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

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

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

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



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

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Date: 2022/4/1

Report No.: E5/2022/30001 **Dipole 5750 MHz_SN:1023**

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

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

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(4.65, 4.65, 4.65); Calibrated: 2022/1/25

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1305; Calibrated: 2021/4/9

Phantom: ELI

DASY52 4.7.80(0); SEMCAD X 14.6.14(7483)

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

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

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

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

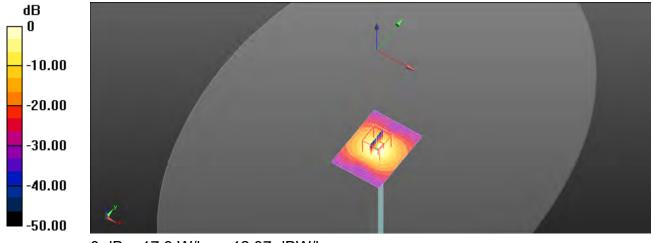
Peak SAR (extrapolated) = 40.7 W/kg

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

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

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

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



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

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7. Uncertainty Budget

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

Α	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 Vef
Measurement system									
Probe calibration	6.55%	N	1	1	1	1	6.55%	6.55%	∞
Isotropy , Axial	3.50%	R	√3	1.732	1	1	2.02%	2.02%	∞
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%	∞
Boundary Effect	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Linearity	4.70%	R	√3	1.732	1	1	2.71%	2.71%	∞
Detection Limits	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Readout Electronics	0.30%	N	1	1	1	1	0.30%	0.30%	∞
Response time	0.80%	R	√3	1.732	1	1	0.46%	0.46%	∞
Integration Time	2.60%	R	√3	1.732	1	1	1.50%	1.50%	∞
Measurement drift (class A evaluation)	1.75%	R	√3	1.732	1	1	1.01%	1.01%	∞
RF ambient condition -	3.00%	R	√3	1.732	1	1	1.73%	1.73%	∞
RF ambient conditions - reflections	3.00%	R	√3	1.732	1	1	1.73%	1.73%	∞
Probe positioner Mechanical restrictions	0.40%	R	√3	1.732	1	1	0.23%	0.23%	∞
Probe Positioning with respect to phantom shell	2.90%	R	√3	1.732	1	1	1.67%	1.67%	∞
Post-processing	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Max SAR Eval	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Test Sample related									
Test sample positioning	2.90%	N	1	1	1	1	2.90%	2.90%	M-1
Device Holder Uncertainty	3.60%	N	1	1	1	1	3.60%	3.60%	M-1
Drift of output power	5.00%	R	√3	1.732	1	1	2.89%	2.89%	∞
Phantom and Setup									
Phantom Uncertainty	4.00%	R	√3	1.732	1	1	2.31%	2.31%	∞
Liquid permittivity (mea.)	2.01%	N	1	1	0.64	0.43	1.29%	0.86%	М
Liquid Conductivity (mea.)	1.91%	N	1	1	0.6	0.49	1.15%	0.94%	М
Combined standard uncertainty		RSS					11.84%	11.78%	
Expant uncertainty (95% confidence interval), K=2					_		23.68%	23.55%	

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

A	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%	∞
Boundary Effect	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Linearity	4.70%	R	√3	1.732	1	1	2.71%	2.71%	8
Detection Limits	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Readout Electronics	0.30%	N	1	1	1	1	0.30%	0.30%	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%	8
RF ambient condition - noise	3.00%	R	√3	1.732	1	1	1.73%	1.73%	∞
RF ambient conditions - reflections	3.00%	R	√3	1.732	1	1	1.73%	1.73%	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%	8
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%	8
Phantom and Setup									
Phantom Uncertainty	4.00%	R	√3	1.732	1	1	2.31%	2.31%	∞
Liquid permittivity (mea.)	0.03%	N	1	1	0.64	0.43	0.02%	0.01%	М
Liquid Conductivity (mea.)	0.47%	N	1	1	0.6	0.49	0.28%	0.23%	М
Combined standard uncertainty		RSS					11.42%	11.41%	
Expant uncertainty (95% confidence interval), K=2							22.84%	22.82%	

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Appendixes

Refer to separated files for the following appendixes.

E52022130001 SAR_Appendix A Photographs

E52022130001 SAR_Appendix B DAE & Probe Cal. Certificate

E52022130001 SAR_Appendix C Phantom Description & Dipole Cal. Certificate

- End of report -

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