

RF Exposure report



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

EUT Description	WLAN and BT, 2x2 PCIe M.2 1216 SD adapter card
Brand Name	Intel® Wi-Fi 6E AX211
Model Name	AX211D2W
Applicant	ASUSTeK COMPUTER INC. 1F., No. 15, Lide Rd., Beitou Dist., Taipei City 112, Taiwan
Standards	IEEE/ANSI C95.1-1992, IEEE 1528-2013
FCC ID	MSQAX211D2
Date of EUT Receipt	Apr. 20, 2022
Date of Test(s)	May 20, 2022 ~ May 25, 2022
Date of Issue	Jul. 07, 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.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS Taiwan Ltd. Central RF Lab or testing done by SGS Taiwan Ltd. Central RF Lab in connection with distribution or use of the product described in this report must be approved by SGS Taiwan Ltd. Central RF Lab in writing.

Signed on behalf of SGS

Clerk / Kimmy Chiou	PM / Kiki Lin	Approved By / John Yeh

Date: Jul. 07, 2022

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TESA2204000084ES	00	Initial creation of document	Jun. 22, 2022	Kimmy Chiou	*
TESA2204000084ES	01	Marked BT antenna	Jul. 07, 2022	Kimmy Chiou	

Note:

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

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0. Guidance applied

- ANSI/IEEE C95.1-1992
- IEEE 1528-2013
- IEC/IEEE 62209-1528:2020
- SPEAG DASY6 System Handbook
- SPEAG DASY6 Application Note
(Interim Procedure for Device Operation at 6GHz-10GHz)
- IEC TR 63170:2018
- IEC 62479:2010
- FCC KDB 865664 D01 v01r04
- FCC KDB 865664 D02 v01r02
- FCC KDB 447498 D01 v06
- FCC KDB 616217 D04 v01r02
- FCC KDB 248227 D01 v02r02

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1. General Information

1.1 Testing Laboratory

Laboratory	Test Site Address	Test Site Name	FCC Designation number	IC CAB identifier
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	1F, No. 8, Alley 15, Lane 120, Sec. 1, NeiHu Road, NeiHu District, Taipei City, 11493, Taiwan.	SAR 2	TW0029	TW3702
		SAR 6		
	No. 2, Keji 1st Rd., Guishan Township, Taoyuan County, 33383, Taiwan	SAR 1	TW0028	
		SAR 4		
	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan	SAR 3	TW0027	
		SAR 7		

Note: Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.

1.2 Details of Applicant

Company Name	ASUSTeK COMPUTER INC.
Company Address	1F., No. 15, Lide Rd., Beitou Dist., Taipei City 112, Taiwan

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1.3 Description of EUT

EUT Description	WLAN and BT, 2x2 PCIe M.2 1216 SD adapter card	
Brand Name	Intel® Wi-Fi 6E AX211	
Model Name	AX211D2W	
FCC ID	MSQAX211D2	
Host Information	Product Type: Notebook PC / ExpertBook Trade Name: ASUS Model Name: B5302FB, B5302CB All models are electrically identical, different model names are for marketing purpose.	
Mode of Operation	<input checked="" type="checkbox"/> WLAN802.11 <input checked="" type="checkbox"/> Bluetooth	
Duty Cycle	WLAN802.11	Refer to page 39-41
	Bluetooth	0.771
Supported Radios	802.11b/g/n/ax	2.4GHz (2400.0 – 2483.5 MHz)
	802.11a/n/ac/ax	5.2GHz (5150.0 – 5350.0 MHz) 5.6GHz (5470.0 – 5725.0 MHz) 5.8GHz (5725.0 – 5850.0 MHz)
	Bluetooth 5.2	2.4GHz (2400.0 – 2483.5)
	802.11ax	6.0GHz (5925.0 – 7125.0 MHz)

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Summary of Maximum SAR and Power Density Value:

Tablet

Summary of Maximum SAR and Power Density Value			
Mode	Highest SAR 1g Body (W/kg)	Highest APD (mW/cm ²)	Highest PD (mW/cm ²)
Bluetooth(GFSK)	0.15	N/A	N/A
2.4G WLAN	0.84	N/A	N/A
5.2G WLAN	1.03	N/A	N/A
5.3G WLAN	1.01	N/A	N/A
5.6G WLAN	0.86	N/A	N/A
5.8G WLAN	0.9	N/A	N/A
6G WLAN	1.02	0.65	0.99

Antenna Information

AWAN

Laptop mode_WLAN

Vendor	AWAN								
Antenna	Main								
Part Number	AYP6Y-100333								
Frequency(MHz)	2400~2500	5150~5250	5250~5350	5470~5725	5725~5850	5925~6425	6425~6525	6525~6875	6875~7125
Gain (dBi)	1.67	3.18	3.18	1.82	3.33	5.49	2.80	5.61	5.63

Vendor	AWAN								
Antenna	Aux								
Part Number	AYP6Y-100334								
Frequency(MHz)	2400~2500	5150~5250	5250~5350	5470~5725	5725~5850	5925~6425	6425~6525	6525~6875	6875~7125
Gain (dBi)	0.71	2.62	2.62	2.46	4.37	5.77	0.96	5.15	5.18

Tablet mode_WLAN

Vendor	AWAN								
Antenna	Main								
Part Number	AYP6Y-100333								
Frequency(MHz)	2400~2500	5150~5250	5250~5350	5470~5725	5725~5850	5925~6425	6425~6525	6525~6875	6875~7125
Gain (dBi)	-0.44	3.47	3.47	2.72	3.21	5.42	4.20	4.78	4.80

Vendor	AWAN								
Antenna	Aux								
Part Number	AYP6Y-100334								
Frequency(MHz)	2400~2500	5150~5250	5250~5350	5470~5725	5725~5850	5925~6425	6425~6525	6525~6875	6875~7125
Gain (dBi)	-0.93	1.43	2.07	2.69	4.40	6.09	1.03	6.38	6.41

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ZTX

Laptop mode_WLAN

Vendor	ZTX									
Antenna	Main									
Part Number	2.00005365 HQ20604915000									
Frequency(MHz)	2400~2500	5150~5250	5250~5350	5470~5725	5725~5850	5925~6425	6425~6525	6525~6875	6875~7125	
Gain (dBi)	2.65	3.30	2.08	3.06	4.69	5.57	4.70	5.68	5.72	

Vendor	ZTX									
Antenna	Aux									
Part Number	2.00005366 HQ20604924000									
Frequency(MHz)	2400~2500	5150~5250	5250~5350	5470~5725	5725~5850	5925~6425	6425~6525	6525~6875	6875~7125	
Gain (dBi)	3.68	3.82	1.77	4.08	5.24	5.28	4.41	5.18	5.29	

Tablet mode_WLAN

Vendor	ZTX									
Antenna	Main									
Part Number	2.00005365 HQ20604915000									
Frequency(MHz)	2400~2500	5150~5250	5250~5350	5470~5725	5725~5850	5925~6425	6425~6525	6525~6875	6875~7125	
Gain (dBi)	3.65	3.93	3.15	4.06	5.33	5.57	5.39	5.80	5.82	

Vendor	ZTX									
Antenna	Aux									
Part Number	2.00005366 HQ20604924000									
Frequency(MHz)	2400~2500	5150~5250	5250~5350	5470~5725	5725~5850	5925~6425	6425~6525	6525~6875	6875~7125	
Gain (dBi)	2.13	3.95	2.08	3.8	5.3	5.34	5.16	6.05	6.30	

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Conducted power table:
AWAN

Main						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2.45GHz	802.11b	1	2412	1Mbps	14.00	13.96
		6	2437		14.00	13.93
		11	2462		14.00	13.99
		12	2467		14.00	13.89
		13	2472		14.00	13.71
	802.11g	1	2412	6Mbps	14.00	13.79
		6	2437		14.00	13.78
		11	2462		14.00	13.71
		12	2467		14.00	13.74
		13	2472		11.75	11.54
	802.11n20-HT0	1	2412	MCS0	14.00	13.89
		6	2437		14.00	13.79
		11	2462		14.00	13.77
		12	2467		14.00	13.81
		13	2472		11.75	11.52
	802.11ax20-HE0	1	2412	MCS0	14.00	13.78
		6	2437		14.00	13.85
		11	2462		14.00	13.81
		12	2467		14.00	13.83
		13	2472		11.75	11.61
	802.11n40-HT0	3	2422	MCS0	14.00	13.80
		6	2437		14.00	13.80
		9	2452		14.00	13.82
		10	2457		12.25	12.01
11		2462	9.75		9.51	
802.11ax40-HE0	3	2422	MCS0	14.00	13.88	
	6	2437		14.00	13.77	
	9	2452		14.00	13.86	
	10	2457		12.25	12.00	
	11	2462		9.75	9.51	

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Main						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.15-5.25 GHz	802.11a	36	5180	6Mbps	10.00	9.84
		40	5200		10.00	9.77
		44	5220		10.00	9.76
		48	5240		10.00	9.74
	802.11n20-HT0	36	5180	MCS0	10.00	9.88
		40	5200		10.00	9.88
		44	5220		10.00	9.78
		48	5240		10.00	9.74
	802.11ax20-HE0	36	5180	MCS0	10.00	9.79
		40	5200		10.00	9.88
		44	5220		10.00	9.87
		48	5240		10.00	9.82
	802.11n40-HT0	38	5190	MCS0	10.00	9.73
		46	5230		10.00	9.85
	802.11ax40-HE0	38	5190	MCS0	10.00	9.85
		46	5230		10.00	9.88
	802.11ac80-VHT0	42	5210	MCS0	10.00	9.90
	802.11ax80-HE0	42	5210	MCS0	10.00	9.84
	802.11ac160-VHT0	50	5250	MCS0	10.00	9.99
	802.11ax160-HE0	50	5250	MCS0	10.00	9.73

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Main						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.25-5.35 GHz	802.11a	52	5260	6Mbps	10.00	9.79
		56	5280		10.00	9.76
		60	5300		10.00	9.88
		64	5320		10.00	9.74
	802.11n20-HT0	52	5260	MCS0	10.00	9.82
		56	5280		10.00	9.87
		60	5300		10.00	9.85
		64	5320		10.00	9.76
	802.11ax20-HE0	52	5260	MCS0	10.00	9.81
		56	5280		10.00	9.84
		60	5300		10.00	9.83
		64	5320		10.00	9.77
	802.11n40-HT0	54	5270	MCS0	10.00	9.81
		62	5310		10.00	9.73
	802.11ax40-HE0	54	5270	MCS0	10.00	9.84
		62	5310		10.00	9.75
	802.11ac80-VHT0	58	5290	MCS0	10.00	9.93
	802.11ax80-HE0	58	5290	MCS0	10.00	9.88

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Main						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.6GHz	802.11a	100	5500	6Mbps	10.00	9.75
		120	5600		10.00	9.85
		140	5700		10.00	9.84
	802.11n20-HT0	100	5500	MCS0	10.00	9.80
		120	5600		10.00	9.79
		140	5700		10.00	9.88
		144	5720		10.00	9.70
	802.11ax20-HE0	100	5500	MCS0	10.00	9.71
		120	5600		10.00	9.76
		140	5700		10.00	9.82
		144	5720		10.00	9.88
	802.11n40-HT0	102	5510	MCS0	10.00	9.72
		118	5590		10.00	9.75
		134	5670		10.00	9.87
		142	5710		10.00	9.89
	802.11ax40-HE0	102	5510	MCS0	10.00	9.88
		118	5590		10.00	9.85
		134	5670		10.00	9.74
		142	5710		10.00	9.74
	802.11ac80-VHT0	106	5530	MCS0	10.00	9.94
		122	5610		10.00	9.79
		138	5690		10.00	9.98
	802.11ax80-HE0	106	5530	MCS0	10.00	9.86
		122	5610		10.00	9.81
138		5690	10.00		9.71	
802.11ac160-VHT0	114	5570	MCS0	10.00	9.99	
802.11ax160-HE0	114	5570	MCS0	10.00	9.88	

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Main						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.8GHz	802.11a	149	5745	6Mbps	10.00	9.74
		157	5785		10.00	9.75
		165	5825		10.00	9.90
	802.11n20-HT0	149	5745	MCS0	10.00	9.81
		157	5785		10.00	9.89
		165	5825		10.00	9.78
	802.11ax20-HE0	149	5745	MCS0	10.00	9.85
		157	5785		10.00	9.88
		165	5825		10.00	9.78
	802.11n40-HT0	151	5755	MCS0	10.00	9.73
		159	5795		10.00	9.79
	802.11ax40-HE0	151	5755	MCS0	10.00	9.84
		159	5795		10.00	9.73
	802.11ac80-VHT0	155	5775	MCS0	10.00	9.96
	802.11ax80-HE0	155	5775	MCS0	10.00	9.89

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Aux						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2.45GHz	802.11b	1	2412	1Mbps	14.00	13.97
		6	2437		14.00	13.88
		11	2462		14.00	13.96
		12	2467		14.00	13.77
		13	2472		14.00	13.73
	802.11g	1	2412	6Mbps	14.00	13.83
		6	2437		14.00	13.75
		11	2462		14.00	13.83
		12	2467		14.00	13.88
		13	2472		12.00	11.89
	802.11n20-HT0	1	2412	MCS0	14.00	13.83
		6	2437		14.00	13.78
		11	2462		14.00	13.75
		12	2467		14.00	13.76
		13	2472		12.00	11.86
	802.11ax20-HE0	1	2412	MCS0	14.00	13.71
		6	2437		14.00	13.81
		11	2462		14.00	13.85
		12	2467		14.00	13.88
		13	2472		12.00	11.78
	802.11n40-HT0	3	2422	MCS0	14.00	13.89
		6	2437		14.00	13.79
		9	2452		14.00	13.70
		10	2457		12.50	12.24
		11	2462		10.75	10.52
	802.11ax40-HE0	3	2422	MCS0	14.00	13.87
		6	2437		14.00	13.83
		9	2452		14.00	13.76
10		2457	12.50		12.21	
11		2462	10.75		10.53	

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Aux						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.15-5.25 GHz	802.11a	36	5180	6Mbps	10.00	9.82
		40	5200		10.00	9.85
		44	5220		10.00	9.89
		48	5240		10.00	9.87
	802.11n20-HT0	36	5180	MCS0	10.00	9.86
		40	5200		10.00	9.83
		44	5220		10.00	9.88
		48	5240		10.00	9.76
	802.11ax20-HE0	36	5180	MCS0	10.00	9.87
		40	5200		10.00	9.73
		44	5220		10.00	9.71
		48	5240		10.00	9.79
	802.11n40-HT0	38	5190	MCS0	10.00	9.75
		46	5230		10.00	9.78
	802.11ax40-HE0	38	5190	MCS0	10.00	9.85
		46	5230		10.00	9.84
	802.11ac80-VHT0	42	5210	MCS0	10.00	9.82
	802.11ax80-HE0	42	5210	MCS0	10.00	9.72
	802.11ac160-VHT0	50	5250	MCS0	10.00	9.98
	802.11ax160-HE0	50	5250	MCS0	10.00	9.79

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Aux						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.25-5.35 GHz	802.11a	52	5260	6Mbps	10.00	9.75
		56	5280		10.00	9.84
		60	5300		10.00	9.78
		64	5320		10.00	9.72
	802.11n20-HT0	52	5260	MCS0	10.00	9.75
		56	5280		10.00	9.78
		60	5300		10.00	9.90
		64	5320		10.00	9.76
	802.11ax20-HE0	52	5260	MCS0	10.00	9.81
		56	5280		10.00	9.77
		60	5300		10.00	9.74
		64	5320		10.00	9.75
	802.11n40-HT0	54	5270	MCS0	10.00	9.87
		62	5310		10.00	9.75
	802.11ax40-HE0	54	5270	MCS0	10.00	9.89
		62	5310		10.00	9.78
	802.11ac80-VHT0	58	5290	MCS0	10.00	9.93
	802.11ax80-HE0	58	5290	MCS0	10.00	9.79

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Aux						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.6GHz	802.11a	100	5500	6Mbps	10.00	9.79
		120	5600		10.00	9.78
		140	5700		10.00	9.85
	802.11n20-HT0	100	5500	MCS0	10.00	9.71
		120	5600		10.00	9.77
		140	5700		10.00	9.84
		144	5720		10.00	9.77
	802.11ax20-HE0	100	5500	MCS0	10.00	9.71
		120	5600		10.00	9.79
		140	5700		10.00	9.89
		144	5720		10.00	9.88
	802.11n40-HT0	102	5510	MCS0	10.00	9.86
		118	5590		10.00	9.85
		134	5670		10.00	9.81
		142	5710		10.00	9.74
	802.11ax40-HE0	102	5510	MCS0	10.00	9.71
		118	5590		10.00	9.81
		134	5670		10.00	9.87
		142	5710		10.00	9.88
	802.11ac80-VHT0	106	5530	MCS0	10.00	9.91
		122	5610		10.00	9.75
		138	5690		10.00	9.97
	802.11ax80-HE0	106	5530	MCS0	10.00	9.78
		122	5610		10.00	9.78
138		5690	10.00		9.80	
802.11ac160-VHT0	114	5570	MCS0	10.00	9.95	
802.11ax160-HE0	114	5570	MCS0	10.00	9.71	

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Aux						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.8GHz	802.11a	149	5745	6Mbps	10.00	9.79
		157	5785		10.00	9.87
		165	5825		10.00	9.86
	802.11n20-HT0	149	5745	MCS0	10.00	9.79
		157	5785		10.00	9.83
		165	5825		10.00	9.89
	802.11ax20-HE0	149	5745	MCS0	10.00	9.88
		157	5785		10.00	9.82
		165	5825		10.00	9.73
	802.11n40-HT0	151	5755	MCS0	10.00	9.84
		159	5795		10.00	9.77
	802.11ax40-HE0	151	5755	MCS0	10.00	9.88
		159	5795		10.00	9.73
	802.11ac80-VHT0	155	5775	MCS0	10.00	9.97
802.11ax80-HE0	155	5775	MCS0	10.00	9.84	

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Main						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2.45GHz	802.11b	1	2412	1Mbps	14.00	13.98
		6	2437		14.00	13.96
		11	2462		14.00	13.93
		12	2467		14.00	13.70
		13	2472		14.00	13.79
	802.11g	1	2412	6Mbps	14.00	13.83
		6	2437		14.00	13.88
		11	2462		14.00	13.78
		12	2467		14.00	13.85
		13	2472		11.75	11.60
	802.11n20-HT0	1	2412	MCS0	14.00	13.88
		6	2437		14.00	13.85
		11	2462		14.00	13.89
		12	2467		14.00	13.89
		13	2472		11.75	11.61
	802.11ax20-HE0	1	2412	MCS0	14.00	13.83
		6	2437		14.00	13.85
		11	2462		14.00	13.77
		12	2467		14.00	13.88
		13	2472		11.75	11.58
	802.11n40-HT0	3	2422	MCS0	14.00	13.87
		6	2437		14.00	13.72
		9	2452		14.00	13.84
		10	2457		12.25	12.07
		11	2462		9.75	9.53
802.11ax40-HE0	3	2422	MCS0	14.00	13.84	
	6	2437		14.00	13.88	
	9	2452		14.00	13.89	
	10	2457		12.25	12.02	
	11	2462		9.75	9.61	

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Main						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.15-5.25 GHz	802.11a	36	5180	6Mbps	10.00	9.83
		40	5200		10.00	9.76
		44	5220		10.00	9.77
		48	5240		10.00	9.88
	802.11n20-HT0	36	5180	MCS0	10.00	9.84
		40	5200		10.00	9.87
		44	5220		10.00	9.84
		48	5240		10.00	9.81
	802.11ax20-HE0	36	5180	MCS0	10.00	9.71
		40	5200		10.00	9.74
		44	5220		10.00	9.82
		48	5240		10.00	9.74
	802.11n40-HT0	38	5190	MCS0	10.00	9.85
		46	5230		10.00	9.80
	802.11ax40-HE0	38	5190	MCS0	10.00	9.85
		46	5230		10.00	9.76
	802.11ac80-VHT0	42	5210	MCS0	10.00	9.71
	802.11ax80-HE0	42	5210	MCS0	10.00	9.73
	802.11ac160-VHT0	50	5250	MCS0	10.00	9.98
	802.11ax160-HE0	50	5250	MCS0	10.00	9.87

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Main						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.25-5.35 GHz	802.11a	52	5260	6Mbps	10.00	9.74
		56	5280		10.00	9.81
		60	5300		10.00	9.71
		64	5320		10.00	9.85
	802.11n20-HT0	52	5260	MCS0	10.00	9.83
		56	5280		10.00	9.84
		60	5300		10.00	9.85
		64	5320		10.00	9.80
	802.11ax20-HE0	52	5260	MCS0	10.00	9.86
		56	5280		10.00	9.84
		60	5300		10.00	9.77
		64	5320		10.00	9.84
	802.11n40-HT0	54	5270	MCS0	10.00	9.84
		62	5310		10.00	9.84
	802.11ax40-HE0	54	5270	MCS0	10.00	9.72
		62	5310		10.00	9.81
	802.11ac80-VHT0	58	5290	MCS0	10.00	9.99
	802.11ax80-HE0	58	5290	MCS0	10.00	9.81

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Main						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.6GHz	802.11a	100	5500	6Mbps	10.00	9.76
		120	5600		10.00	9.72
		140	5700		10.00	9.75
	802.11n20-HT0	100	5500	MCS0	10.00	9.84
		120	5600		10.00	9.73
		140	5700		10.00	9.87
		144	5720		10.00	9.81
	802.11ax20-HE0	100	5500	MCS0	10.00	9.80
		120	5600		10.00	9.90
		140	5700		10.00	9.71
		144	5720		10.00	9.76
	802.11n40-HT0	102	5510	MCS0	10.00	9.72
		118	5590		10.00	9.79
		134	5670		10.00	9.81
		142	5710		10.00	9.73
	802.11ax40-HE0	102	5510	MCS0	10.00	9.73
		118	5590		10.00	9.90
		134	5670		10.00	9.85
		142	5710		10.00	9.79
	802.11ac80-VHT0	106	5530	MCS0	10.00	9.94
		122	5610		10.00	9.72
		138	5690		10.00	9.99
	802.11ax80-HE0	106	5530	MCS0	10.00	9.71
		122	5610		10.00	9.76
138		5690	10.00		9.85	
802.11ac160-VHT0	114	5570	MCS0	10.00	9.97	
802.11ax160-HE0	114	5570	MCS0	10.00	9.71	

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Main						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.8GHz	802.11a	149	5745	6Mbps	10.00	9.78
		157	5785		10.00	9.87
		165	5825		10.00	9.70
	802.11n20-HT0	149	5745	MCS0	10.00	9.83
		157	5785		10.00	9.81
		165	5825		10.00	9.74
	802.11ax20-HE0	149	5745	MCS0	10.00	9.85
		157	5785		10.00	9.74
		165	5825		10.00	9.81
	802.11n40-HT0	151	5755	MCS0	10.00	9.83
		159	5795		10.00	9.80
	802.11ax40-HE0	151	5755	MCS0	10.00	9.84
		159	5795		10.00	9.83
	802.11ac80-VHT0	155	5775	MCS0	10.00	9.99
802.11ax80-HE0	155	5775	MCS0	10.00	9.75	

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Aux						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2.45GHz	802.11b	1	2412	1Mbps	14.00	13.97
		6	2437		14.00	13.90
		11	2462		14.00	13.91
		12	2467		14.00	13.73
		13	2472		14.00	13.87
	802.11g	1	2412	6Mbps	14.00	13.74
		6	2437		14.00	13.83
		11	2462		14.00	13.77
		12	2467		14.00	13.77
		13	2472		12.00	11.73
	802.11n20-HT0	1	2412	MCS0	14.00	13.71
		6	2437		14.00	13.77
		11	2462		14.00	13.80
		12	2467		14.00	13.75
		13	2472		12.00	11.86
	802.11ax20-HE0	1	2412	MCS0	14.00	13.75
		6	2437		14.00	13.74
		11	2462		14.00	13.72
		12	2467		14.00	13.87
		13	2472		12.00	11.88
	802.11n40-HT0	3	2422	MCS0	14.00	13.83
		6	2437		14.00	13.76
		9	2452		14.00	13.81
		10	2457		12.50	12.24
11		2462	10.75		10.48	
802.11ax40-HE0	3	2422	MCS0	14.00	13.76	
	6	2437		14.00	13.82	
	9	2452		14.00	13.81	
	10	2457		12.50	12.39	
	11	2462		10.75	10.64	

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Aux						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.15-5.25 GHz	802.11a	36	5180	6Mbps	10.00	9.78
		40	5200		10.00	9.86
		44	5220		10.00	9.72
		48	5240		10.00	9.82
	802.11n20-HT0	36	5180	MCS0	10.00	9.82
		40	5200		10.00	9.74
		44	5220		10.00	9.74
		48	5240		10.00	9.80
	802.11ax20-HE0	36	5180	MCS0	10.00	9.78
		40	5200		10.00	9.75
		44	5220		10.00	9.73
		48	5240		10.00	9.76
	802.11n40-HT0	38	5190	MCS0	10.00	9.82
		46	5230		10.00	9.72
	802.11ax40-HE0	38	5190	MCS0	10.00	9.85
		46	5230		10.00	9.82
	802.11ac80-VHT0	42	5210	MCS0	10.00	9.82
	802.11ax80-HE0	42	5210	MCS0	10.00	9.84
	802.11ac160-VHT0	50	5250	MCS0	10.00	9.98
	802.11ax160-HE0	50	5250	MCS0	10.00	9.73

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Aux						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.25-5.35 GHz	802.11a	52	5260	6Mbps	10.00	9.83
		56	5280		10.00	9.83
		60	5300		10.00	9.84
		64	5320		10.00	9.80
	802.11n20-HT0	52	5260	MCS0	10.00	9.73
		56	5280		10.00	9.77
		60	5300		10.00	9.89
		64	5320		10.00	9.81
	802.11ax20-HE0	52	5260	MCS0	10.00	9.78
		56	5280		10.00	9.81
		60	5300		10.00	9.77
		64	5320		10.00	9.87
	802.11n40-HT0	54	5270	MCS0	10.00	9.72
		62	5310		10.00	9.86
	802.11ax40-HE0	54	5270	MCS0	10.00	9.84
		62	5310		10.00	9.72
802.11ac80-VHT0	58	5290	MCS0	10.00	9.92	
802.11ax80-HE0	58	5290	MCS0	10.00	9.76	

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Aux						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.6GHz	802.11a	100	5500	6Mbps	10.00	9.81
		120	5600		10.00	9.85
		140	5700		10.00	9.75
	802.11n20-HT0	100	5500	MCS0	10.00	9.84
		120	5600		10.00	9.73
		140	5700		10.00	9.76
		144	5720		10.00	9.86
	802.11ax20-HE0	100	5500	MCS0	10.00	9.80
		120	5600		10.00	9.86
		140	5700		10.00	9.81
		144	5720		10.00	9.78
	802.11n40-HT0	102	5510	MCS0	10.00	9.76
		118	5590		10.00	9.80
		134	5670		10.00	9.89
		142	5710		10.00	9.75
	802.11ax40-HE0	102	5510	MCS0	10.00	9.88
		118	5590		10.00	9.76
		134	5670		10.00	9.71
		142	5710		10.00	9.80
	802.11ac80-VHT0	106	5530	MCS0	10.00	9.98
		122	5610		10.00	9.82
		138	5690		10.00	9.96
	802.11ax80-HE0	106	5530	MCS0	10.00	9.83
		122	5610		10.00	9.87
138		5690	10.00		9.83	
802.11ac160-VHT0	114	5570	MCS0	10.00	9.94	
802.11ax160-HE0	114	5570	MCS0	10.00	9.80	

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Aux						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.8GHz	802.11a	149	5745	6Mbps	10.00	9.85
		157	5785		10.00	9.81
		165	5825		10.00	9.88
	802.11n20-HT0	149	5745	MCS0	10.00	9.73
		157	5785		10.00	9.72
		165	5825		10.00	9.81
	802.11ax20-HE0	149	5745	MCS0	10.00	9.87
		157	5785		10.00	9.74
		165	5825		10.00	9.72
	802.11n40-HT0	151	5755	MCS0	10.00	9.78
		159	5795		10.00	9.82
	802.11ax40-HE0	151	5755	MCS0	10.00	9.87
		159	5795		10.00	9.76
	802.11ac80-VHT0	155	5775	MCS0	10.00	9.93
802.11ax80-HE0	155	5775	MCS0	10.00	9.81	

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Main						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-5 6.2GHz	802.11ax20-HE0	1	5955	MCS0	5.00	4.89
		45	6175		5.00	4.86
		93	6415		5.00	4.82
	802.11ax40-HE0	3	5965	MCS0	8.25	8.12
		43	6165		8.25	8.14
		91	6405		8.25	8.11
	802.11ax80-HE0	7	5985	MCS0	10.00	9.85
		39	6145		10.00	9.77
		87	6385		10.00	9.75
	802.11ax160-HE0	15	6025	MCS0	10.00	9.97
		47	6185		10.00	9.99
		79	6345		10.00	9.93
Main						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-6 6.5GHz	802.11ax20-HE0	97	6435	MCS0	5.00	4.75
		105	6475		5.00	4.86
		113	6515		5.00	4.83
	802.11ax40-HE0	99	6445	MCS0	8.25	8.14
		107	6485		8.25	8.04
	802.11ax80-HE0	103	6465	MCS0	10.00	9.93
		119	6545		10.00	9.76
	802.11ax160-HE0	111	6505	MCS0	10.00	9.97

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Main						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-7 6.7GHz	802.11ax20-HE0	117	6535	MCS0	4.25	4.19
		149	6695		4.25	4.03
		181	6855		4.25	4.16
	802.11ax40-HE0	115	6525	MCS0	8.25	8.15
		147	6685		7.50	7.42
		179	6845		7.50	7.36
	802.11ax80-HE0	135	6625	MCS0	10.00	9.90
		151	6705		10.00	9.80
		167	6785		10.00	9.80
	802.11ax160-HE0	143	6665	MCS0	10.00	9.92
		175	6825		10.00	9.98
	Main					
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-8 7.0GHz	802.11ax20-HE0	185	6875	MCS0	4.25	4.04
		209	6995		4.25	4.01
		233	7115		-1.00	-1.23
	802.11ax40-HE0	187	6885	MCS0	7.50	7.29
		227	7085		7.50	7.29
	802.11ax80-HE0	183	6865	MCS0	10.00	9.83
		199	6945		10.00	9.76
		215	7025		10.00	9.91
	802.11ax160-HE0	207	6985	MCS0	10.00	9.98

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Aux						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-5 6.2GHz	802.11ax20-HE0	1	5955	MCS0	5.00	4.81
		45	6175		5.00	4.88
		93	6415		5.00	4.91
	802.11ax40-HE0	3	5965	MCS0	8.25	8.14
		43	6165		8.25	8.03
		91	6405		8.25	8.16
	802.11ax80-HE0	7	5985	MCS0	10.00	9.77
		39	6145		10.00	9.79
		87	6385		10.00	9.87
	802.11ax160-HE0	15	6025	MCS0	10.00	9.95
		47	6185		10.00	9.97
		79	6345		10.00	9.94
Aux						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-6 6.5GHz	802.11ax20-HE0	97	6435	MCS0	5.00	4.79
		105	6475		5.00	4.75
		113	6515		5.00	4.90
	802.11ax40-HE0	99	6445	MCS0	8.25	8.09
		107	6485		8.25	8.02
	802.11ax80-HE0	103	6465	MCS0	10.00	9.88
		119	6545		10.00	9.87
	802.11ax160-HE0	111	6505	MCS0	10.00	9.99

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Aux						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-7 6.7GHz	802.11ax20-HE0	117	6535	MCS0	4.25	4.16
		149	6695		4.25	4.16
		181	6855		4.25	4.05
	802.11ax40-HE0	115	6525	MCS0	8.25	8.09
		147	6685		7.50	7.34
		179	6845		7.50	7.44
	802.11ax80-HE0	135	6625	MCS0	10.00	9.87
		151	6705		10.00	9.88
		167	6785		10.00	9.78
	802.11ax160-HE0	143	6665	MCS0	10.00	9.93
		175	6825		10.00	9.95
	Aux					
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-8 7.0GHz	802.11ax20-HE0	185	6875	MCS0	4.25	4.09
		209	6995		4.25	4.10
		233	7115		-1.00	-1.06
	802.11ax40-HE0	187	6885	MCS0	7.50	7.31
		227	7085		7.50	7.44
	802.11ax80-HE0	183	6865	MCS0	10.00	9.91
		199	6945		10.00	9.79
		215	7025		10.00	9.85
	802.11ax160-HE0	207	6985	MCS0	10.00	9.96

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Main						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-5 6.2GHz	802.11ax20-HE0	1	5955	MCS0	5.00	4.75
		45	6175		5.00	4.91
		93	6415		5.00	4.93
	802.11ax40-HE0	3	5965	MCS0	8.25	8.02
		43	6165		8.25	8.15
		91	6405		8.25	8.13
	802.11ax80-HE0	7	5985	MCS0	10.00	9.83
		39	6145		10.00	9.81
		87	6385		10.00	9.86
	802.11ax160-HE0	15	6025	MCS0	10.00	10.00
		47	6185		10.00	9.98
			79	6345		10.00
Main						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-6 6.5GHz	802.11ax20-HE0	97	6435	MCS0	5.00	4.76
		105	6475		5.00	4.92
		113	6515		5.00	4.92
	802.11ax40-HE0	99	6445	MCS0	8.25	8.15
		107	6485		8.25	8.10
	802.11ax80-HE0	103	6465	MCS0	10.00	9.83
		119	6545		10.00	9.94
	802.11ax160-HE0	111	6505	MCS0	10.00	9.96

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Main						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-7 6.7GHz	802.11ax20-HE0	117	6535	MCS0	4.25	4.18
		149	6695		4.25	4.08
		181	6855		4.25	4.09
	802.11ax40-HE0	115	6525	MCS0	8.25	8.18
		147	6685		7.50	7.31
		179	6845		7.50	7.44
	802.11ax80-HE0	135	6625	MCS0	10.00	9.89
		151	6705		10.00	9.78
		167	6785		10.00	9.80
	802.11ax160-HE0	143	6665	MCS0	10.00	9.99
		175	6825		10.00	9.97
	Main					
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-8 7.0GHz	802.11ax20-HE0	185	6875	MCS0	4.25	4.18
		209	6995		4.25	4.03
		233	7115		-1.00	-1.22
	802.11ax40-HE0	187	6885	MCS0	7.50	7.40
		227	7085		7.50	7.44
	802.11ax80-HE0	183	6865	MCS0	10.00	9.86
		199	6945		10.00	9.94
		215	7025		10.00	9.82
	802.11ax160-HE0	207	6985	MCS0	10.00	10.00

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Aux						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-5 6.2GHz	802.11ax20-HE0	1	5955	MCS0	5.00	4.94
		45	6175		5.00	4.93
		93	6415		5.00	4.77
	802.11ax40-HE0	3	5965	MCS0	8.25	8.16
		43	6165		8.25	8.08
		91	6405		8.25	8.01
	802.11ax80-HE0	7	5985	MCS0	10.00	9.78
		39	6145		10.00	9.95
		87	6385		10.00	9.95
	802.11ax160-HE0	15	6025	MCS0	10.00	9.88
		47	6185		10.00	9.96
		79	6345		10.00	9.93
Aux						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-6 6.5GHz	802.11ax20-HE0	97	6435	MCS0	5.00	4.75
		105	6475		5.00	4.81
		113	6515		5.00	4.89
	802.11ax40-HE0	99	6445	MCS0	8.25	8.05
		107	6485		8.25	8.00
	802.11ax80-HE0	103	6465	MCS0	10.00	9.83
		119	6545		10.00	9.84
	802.11ax160-HE0	111	6505	MCS0	10.00	9.96

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Aux						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-7 6.7GHz	802.11ax20-HE0	117	6535	MCS0	4.25	4.09
		149	6695		4.25	4.05
		181	6855		4.25	4.14
	802.11ax40-HE0	115	6525	MCS0	8.25	8.15
		147	6685		7.50	7.35
		179	6845		7.50	7.25
	802.11ax80-HE0	135	6625	MCS0	10.00	9.80
		151	6705		10.00	9.85
		167	6785		10.00	9.88
	802.11ax160-HE0	143	6665	MCS0	10.00	9.97
		175	6825		10.00	9.98
	Aux					
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
U-NII-8 7.0GHz	802.11ax20-HE0	185	6875	MCS0	4.25	4.07
		209	6995		4.25	4.04
		233	7115		-1.00	-1.15
	802.11ax40-HE0	187	6885	MCS0	7.50	7.28
		227	7085		7.50	7.30
	802.11ax80-HE0	183	6865	MCS0	10.00	9.77
		199	6945		10.00	9.90
		215	7025		10.00	9.81
	802.11ax160-HE0	207	6985	MCS0	10.00	9.95

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Bluetooth conducted power table:
AWAN

Channel	Frequency (MHz)	Aux					
		1Mbps		2Mbps		3Mbps	
		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
CH 00	2402	11.00	9.48	7.00	6.55	7.00	6.53
CH 39	2441		9.36		6.76		6.76
CH 78	2480		9.34		6.86		6.87

Mode	Channel	Frequency (MHz)	GFSK	
			Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Output Power (dBm)
BLE_1M	CH 00	2402	7	6.59
	CH 19	2440		6.85
	CH 39	2480		6.87

Mode	Channel	Frequency (MHz)	GFSK	
			Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Output Power (dBm)
BLE_2M	CH 00	2402	7	6.60
	CH 19	2440		6.82
	CH 39	2480		6.96

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Aux							
Channel	Frequency (MHz)	1Mbps		2Mbps		3Mbps	
		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
CH 00	2402	11.00	9.21	7.00	6.42	7.00	6.40
CH 39	2441		9.32		6.64		6.65
CH 78	2480		9.48		6.63		6.64

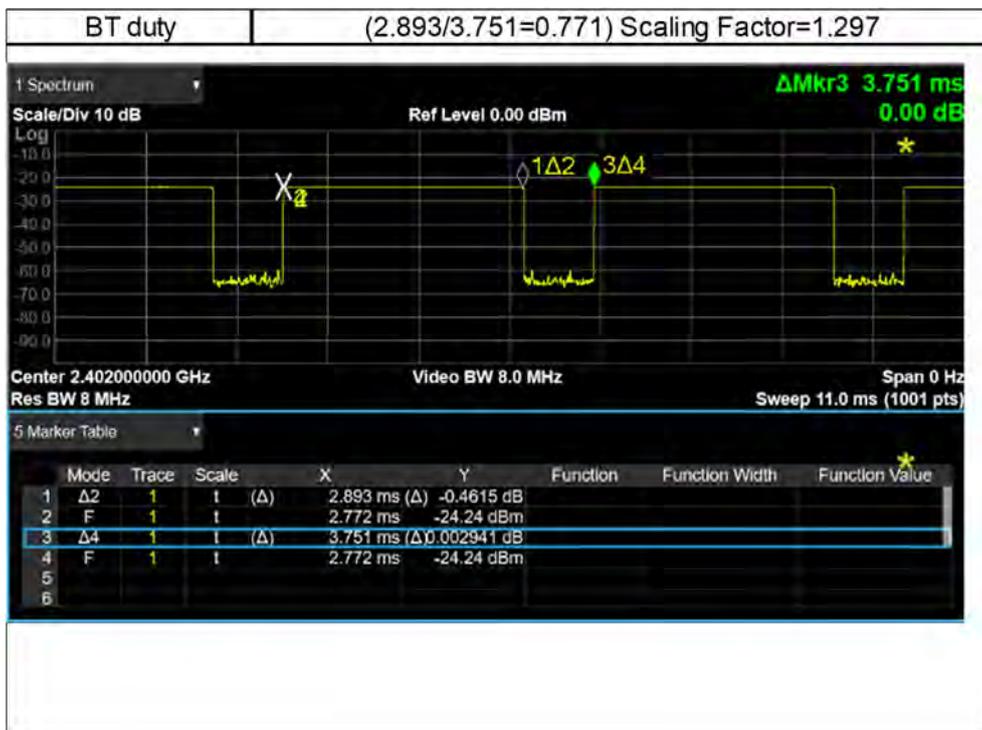
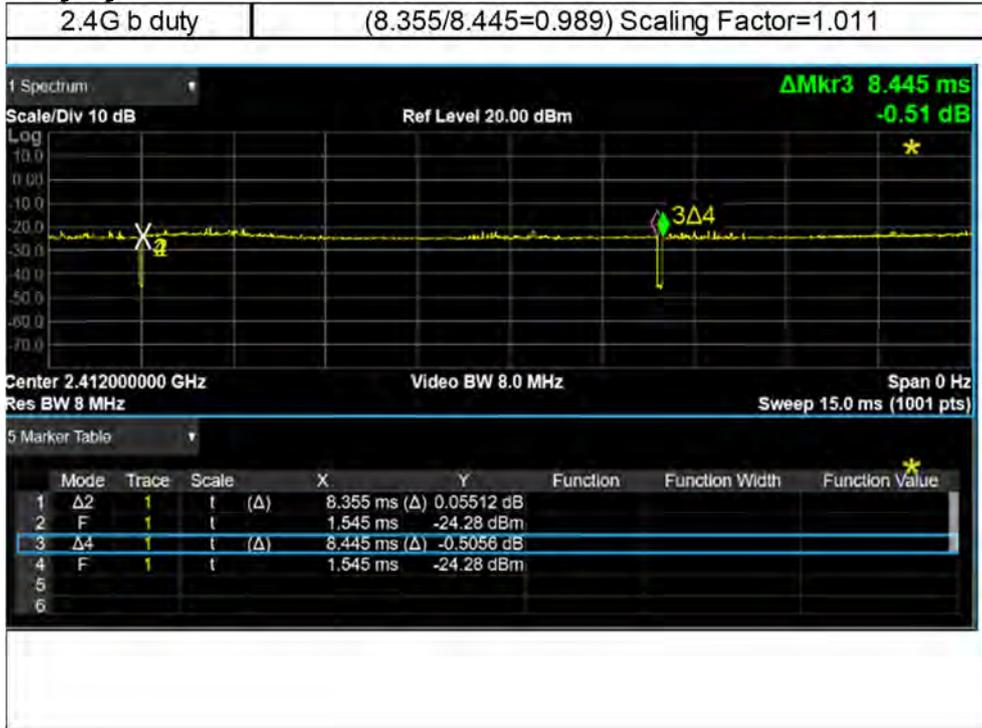
Mode	Channel	Frequency (MHz)	GFSK	
			Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Output Power (dBm)
BLE_1M	CH 00	2402	7	6.59
	CH 19	2440		6.79
	CH 39	2480		6.93
Mode	Channel	Frequency (MHz)	GFSK	
			Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Output Power (dBm)
BLE_2M	CH 00	2402	7	6.67
	CH 19	2440		6.82
	CH 39	2480		6.94

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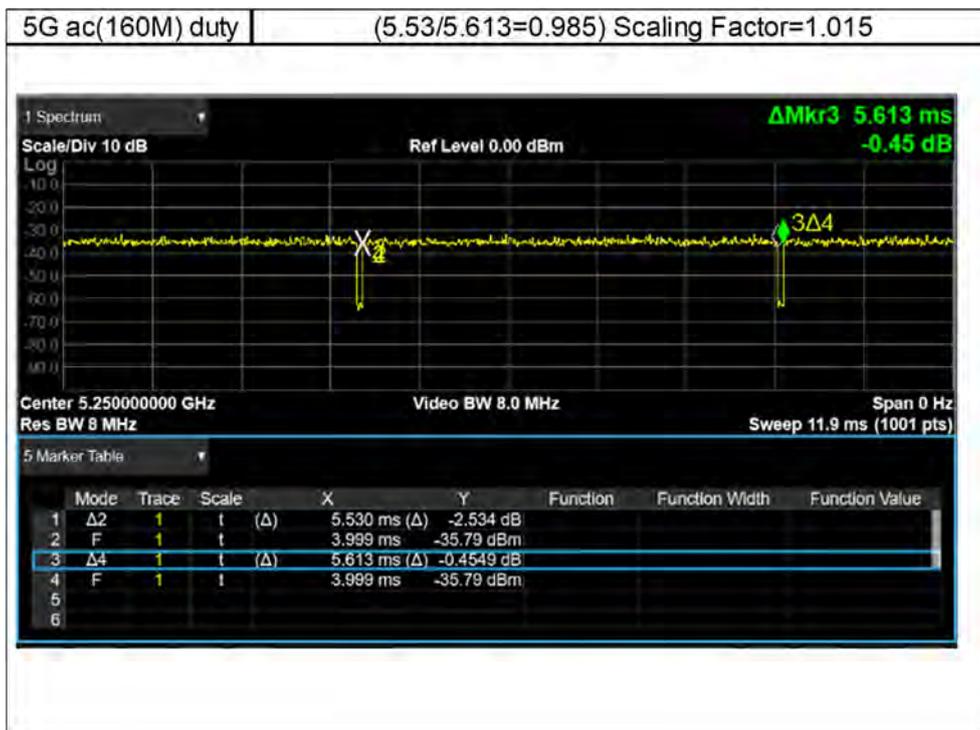
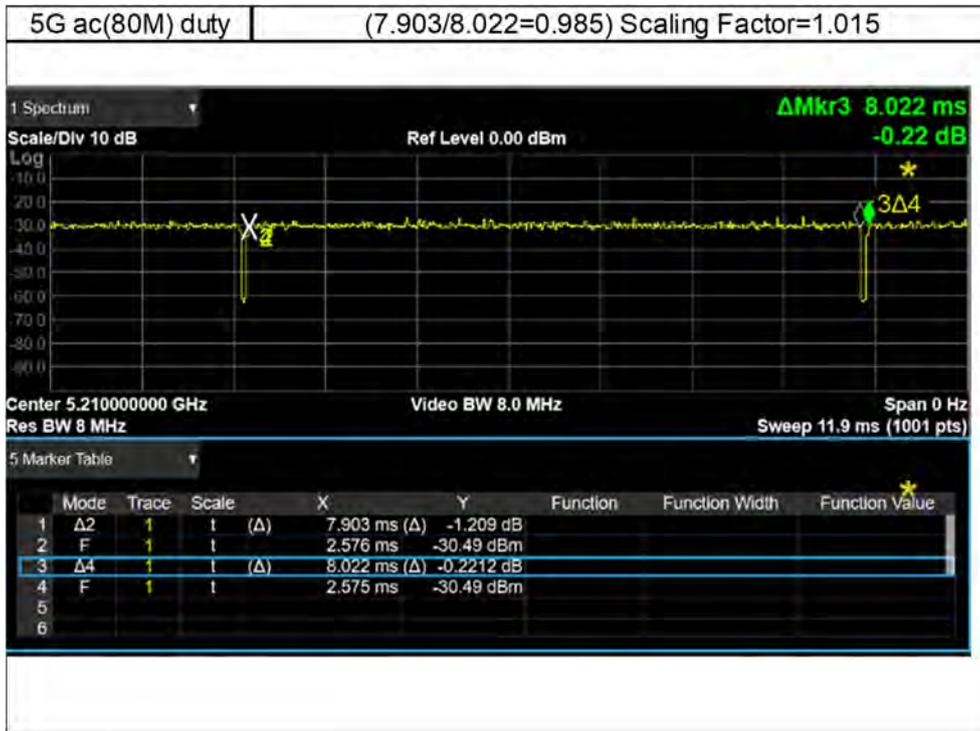
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Duty cycle:



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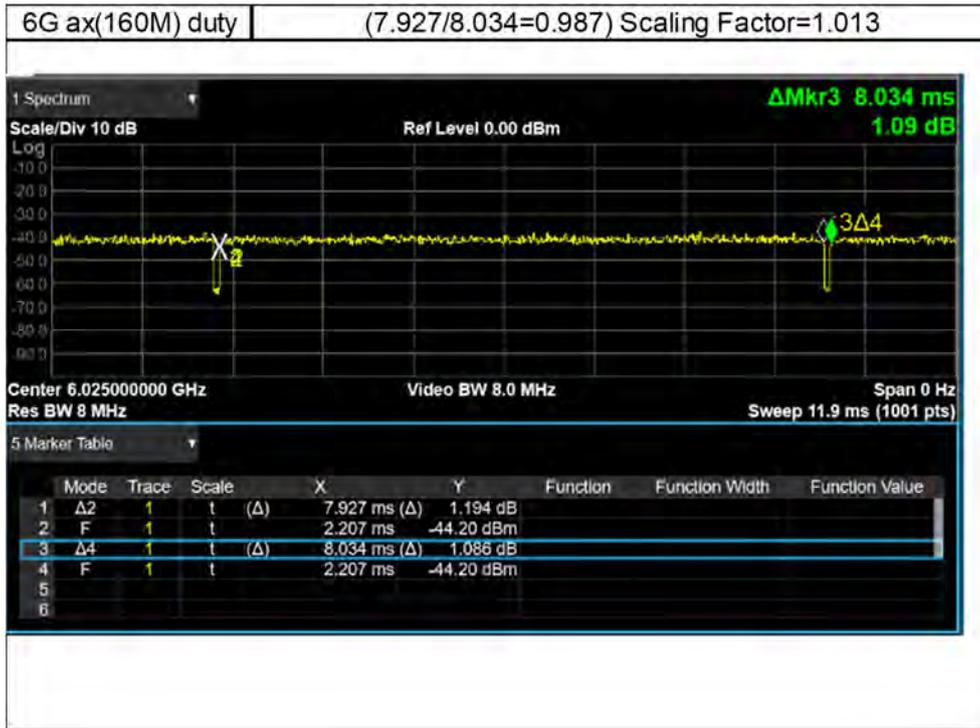
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1.4 Test Environment

Ambient Temperature: 22±2° C

Tissue Simulating Liquid: 22±2° C

1.5 Operation Description

1. An initial test configuration is determined for OFDM transmission modes 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.
2. 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.
3. 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.
4. Per 201904 TCBC workshops, general principles of FCC KDB Publication 248227 D01 can be applied to determine the SAR Initial Test Configurations and test reduction for 802.11ax SAR testing.
5. In applying the test guidance, the IEEE 802.11 mode with the maximum output power (out of all modes) should be considered for testing. For modes with the same maximum output power, the guidance from section 5.3.2 a) of FCC KDB Publication 248227 D01 should be applied, with 802.11ax being considered as the highest 802.11 mode for the appropriate frequency bands
6. 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)
7. WIFI 6E of the device was configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools.
8. Per October 2020 & April 2021 TCB Workshop Interim procedures and FCC guidance, start instead with a minimum of 5 test channels across the full band, then adapt and apply conducted power and SAR test reduction procedures of KDB Pub. 248227 v02r02.
9. WIFI 6E SAR is measured by using 6-7GHz parameters per IEC/IEEE62209-1528:2020 and report also estimated absorbed PD (for reference purposes only, not specifically for compliance).

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10. For the highest SAR test configurations also measure incident PD (total) using mmW near-field probe and total-field/power-density reconstruction method.
11. The PD test was performed with a 2 mm separation between probe sensor and EUT surface.
12. According to October 2020 TCB Workshop Interim procedures, power density results were scaled according to IEC 62479:2010 for the portion of the measurement uncertainty > 30%. Total expanded uncertainty of 2.67 dB (85%) was used to determine the psPD measurement scaling factor.

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1.6 EUT Testing Position

For laptop PC, according to KDB 616217 D04, SAR evaluation is required for the bottom surface of the keyboard. This EUT was tested in the base of EUT directly against the flat phantom. The required minimum test separation distance for incorporating transmitters and antennas into laptop computer display is determined with the display screen opened at an angle of 90° to the keyboard compartment.

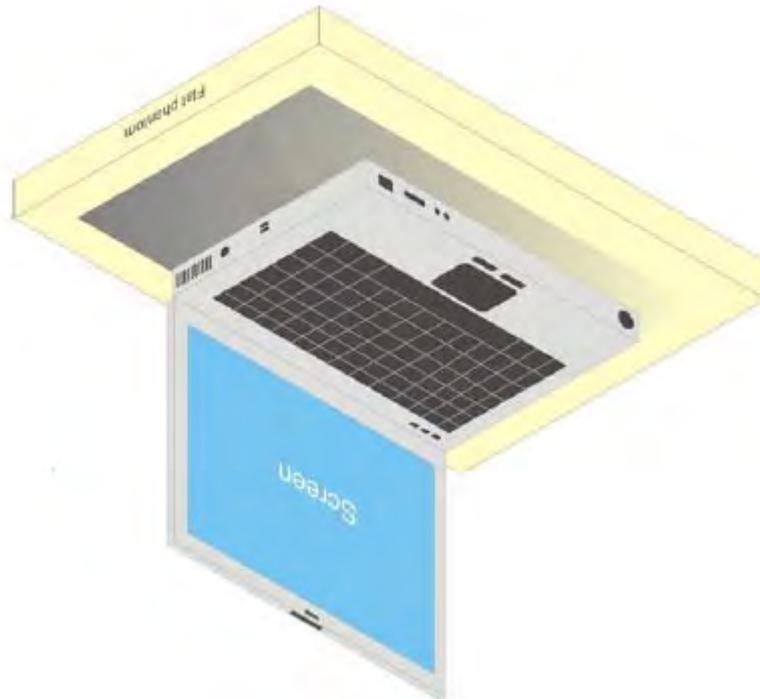


Illustration for Laptop Setup

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For full-size tablet, according to KDB 616217 D04, SAR evaluation is required for back surface and edges of the devices. The back surface and edges of the tablet are tested with the tablet touching the phantom. Exposures from antennas through the front surface of the display section of a tablet are generally limited to the user's hands. Exposures to hands for typical consumer transmitters used in tablets are not expected to exceed the extremity SAR limit; therefore, SAR evaluation for the front surface of tablet display screens are generally not necessary. When voice mode is supported on a tablet and it is limited to speaker mode or headset operations only, additional SAR testing for this type of voice use is not required.

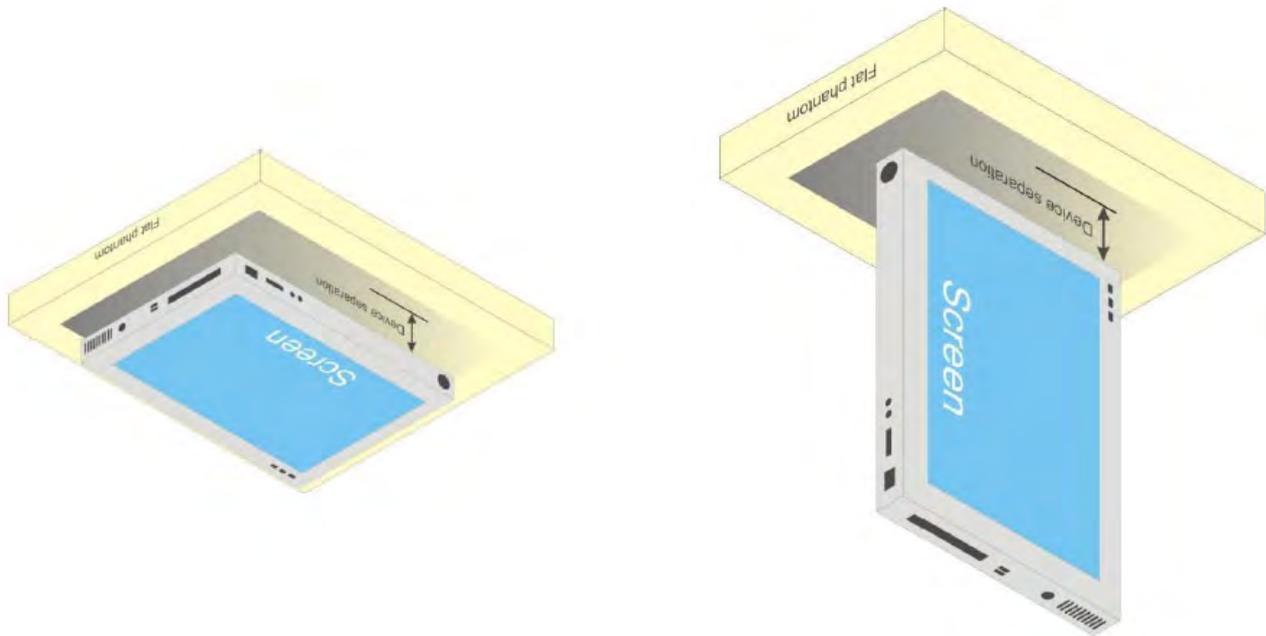


Illustration for Tablet Setup

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1.7 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 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

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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.

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1.8 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:

1.8.1 Transfer Calibration with Temperature Probes

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

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

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

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

1. 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

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small.

2. 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.
3. The calibration depends on the assessment of the specific density, the heat capacity and the conductivity of the medium. While the specific density and heat capacity can be measured accurately with standardized procedures ($\sim 2\%$ for c ; much better for ρ), there is no standard for the measurement of the conductivity. Depending on the method and liquid, the error can well exceed $\pm 5\%$.
4. Temperature rise measurements are not very sensitive and therefore are often performed at a higher power level than the E-field measurements. The nonlinearities in the system (e.g., power measurements, different components, etc.) must be considered.

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

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1.8.2 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:

1. The setup must enable accurate determination of the incident power.
2. The accuracy of the calculated field strength will depend on the assessment of the dielectric parameters of the liquid.
3. Due to the small wavelength in liquids with high permittivity, even small setups might be above the resonant cutoff frequencies. The field distribution in the setup must be carefully checked for conformity with the theoretical field distribution.

References

- (1) N. Kuster, Q. Balzano, and J.C. Lin, Eds., *Mobile Communications Safety*, Chapman & Hall, London, 1997.
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- (3) K. Jokela, P. Hyysalo, and L. Puranen, "Calibration of specific absorption rate (SAR) probes in waveguide at 900 MHz", *IEEE Transactions on Instrumentation and Measurements*, vol. 47, no. 2, pp. 432-438, Apr. 1998.

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1.9 SAR System Description and Setup

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

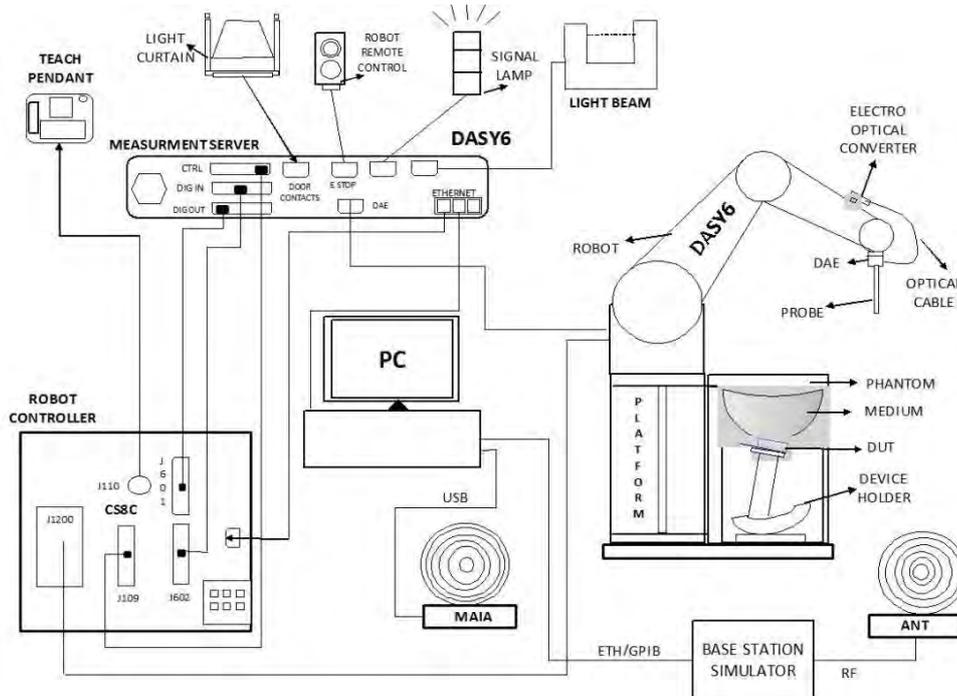


Fig. a A block diagram of the SAR measurement system

- A standard high precision 6-axis robot with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
- An isotropic Field probe optimized and calibrated for the targeted measurement.
- 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.
- The Electro-optical converter (EOC) performs the conversion from optical to electrical signals for the digital communication to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to

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the measurement server.

- 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.
- The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running Windows 10 and the DASY6 software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps, etc.
- The phantom, the device holder and other accessories according to the targeted measurement.

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1.9.1 Power density measurement system

DASY6 system

Power density measurements for mmWave frequencies were performed using SPEAG DASY6 with cDASY6 5G module. The DASY6 included a high precision robotics system (Staubli), robot controller, desktop computer, near-field probe, probe alignment sensor, and the 5G phantom cover.

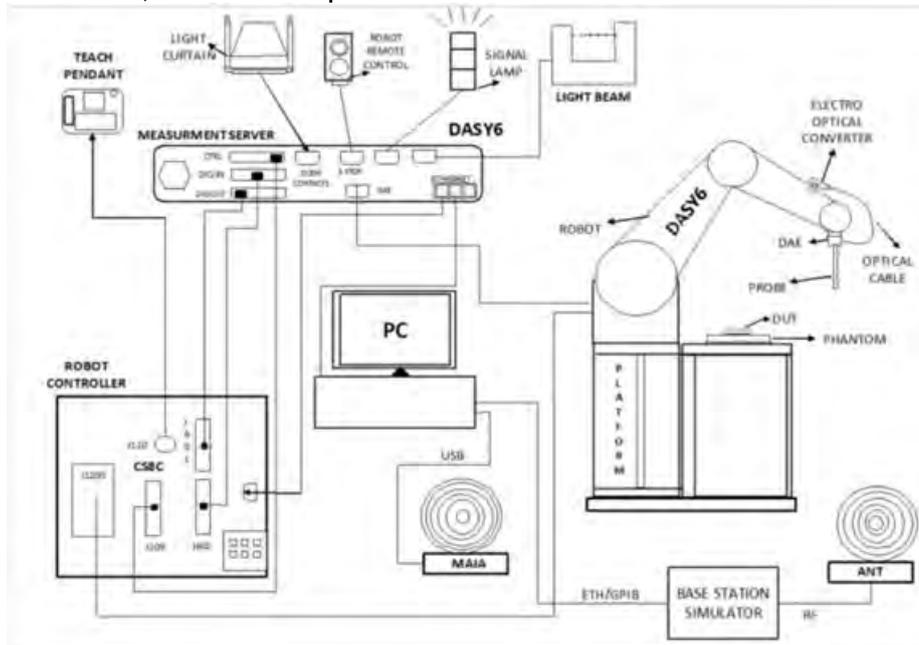


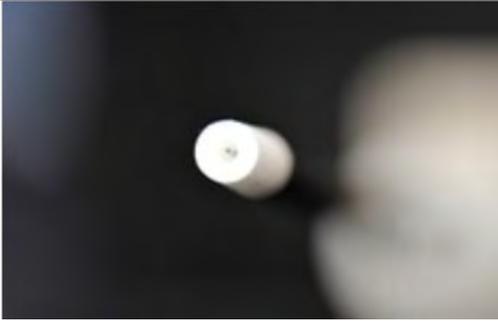
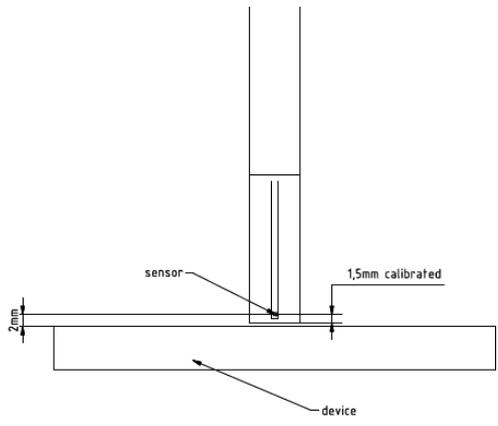
Fig-2.1 SPEAG DASY6 system

EUmmWVx probe

The EUmmWVx probe is based on the pseudo-vector probe design, which not only measures the field magnitude but also derives its polarization ellipse. The design entails two small 0.8mm dipole sensors mechanically protected by high-density foam, printed on both sides of a 0.9mm wide and 0.12mm thick glass substrate. The body of the probe is specifically constructed to minimize distortion by the scattered fields. The probe consist of two sensors with different angles (1 and 2) arranged in the same plane in the probe axis. Three or more measurements of the two sensors are taken for different probe rotational angles to derive the amplitude and polarization information. The probe design allows measurements at distances as small as 2mm from the sensors to the surface of the device under test (DUT). The typical sensor to probe tip distance is 1.5 mm. The exact distance is calibrated.

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	<p>Two dipoles optimally arranged to obtain pseudo-vector information. Minimum 3 measurements/ point, 120° rotated around probe axis.</p> <p>Sensors (0.8mm length) printed on glass substrate protected by high density foam. Low perturbation of the measured field. Requires positioner which can do accurate probe rotation.</p>
Frequency Range	750 MHz – 110 GHz
Dynamic Range	< 20 V/m – 10,000 V/m with PRE-10 (min < 50 V/m - 3000 V/m)
Position Precision	< 0.2 mm (DASY6)
Dimensions	<p>Overall length: 337 mm (tip: 20 mm)</p> <p>Tip diameter: encapsulation 8 mm (internal sensor < 1mm)</p> <p>Distance from probe tip to dipole centers: < 2 mm. Sensor displacement to probe's calibration point: < 0.3 mm</p>
Applications 	<p>E-field measurements of 5G devices and other mm-wave transmitters operating above 10GHz in < 2 mm distance from device (free-space). Power density, H-field and far-field analysis using total field reconstruction (cDASY6 5G module required)</p>
Compatibility	cDASY6 + 5G-Module SW1.0 and higher

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1.9.2 SAR System Performance Check Results

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% (according to KDB865664D01) from the target SAR values.

These tests were done at 2450/5250/5600/5750/6500/7000 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. During the tests, the liquid depth above the ear reference points was above 15 cm in all the cases. It is seen that the system is operating within its specification, as the results are within acceptable tolerance of the reference values.

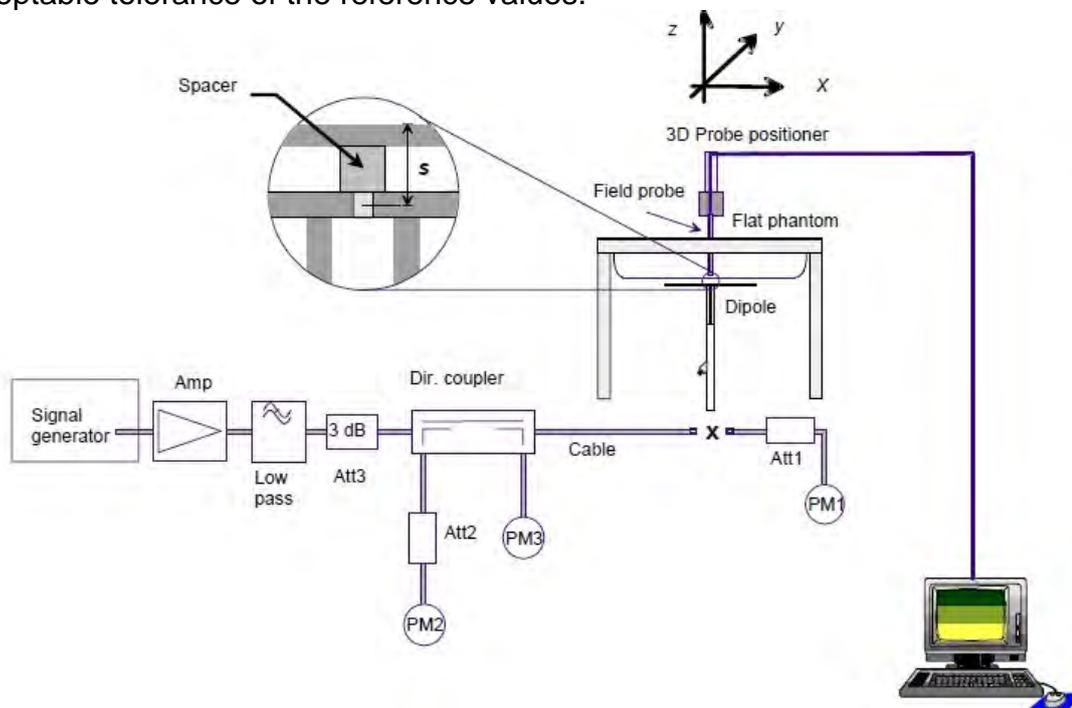


Fig. b The block diagram of system verification

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Validation Kit	S/N	Frequency (MHz)	1W Target 1g-SAR (W/kg)	pin=250mW Measured 1g-SAR (W/kg)	Normalized to 1W 1g-SAR (W/kg)	Deviation (%)	Limit	Measurement Date
D2450V2	727	2450	52.8	13.5	54	2.27	± 10%	May.20,2022
Validation Kit	S/N	Frequency (MHz)	1W Target 1g-SAR (W/kg)	pin=100mW Measured 1g-SAR (W/kg)	Normalized to 1W 1g-SAR (W/kg)	Deviation (%)	Limit	Measurement Date
D5GHzV2	1023	5250	81	8.21	82.1	1.36	± 10%	May.21,2022
D5GHzV2	1023	5600	84.4	8.52	85.2	0.95	± 10%	May.22,2022
D5GHzV2	1023	5750	81	8.23	82.3	1.60	± 10%	May.23,2022

Validation Kit	S/N	Frequency (MHz)	1W Target 1g-SAR (W/kg)	pin=100mW Measured 1g-SAR (W/kg)	Normalized to 1W 1g-SAR (W/kg)	Deviation (%)	Limit	Measurement Date
D6.5GHzV2	1006	6500	291	26.9	269	-7.56	± 10%	May.24,2022
D7GHzV2	1007	7000	275	28.4	284	3.27	± 10%	May.24,2022

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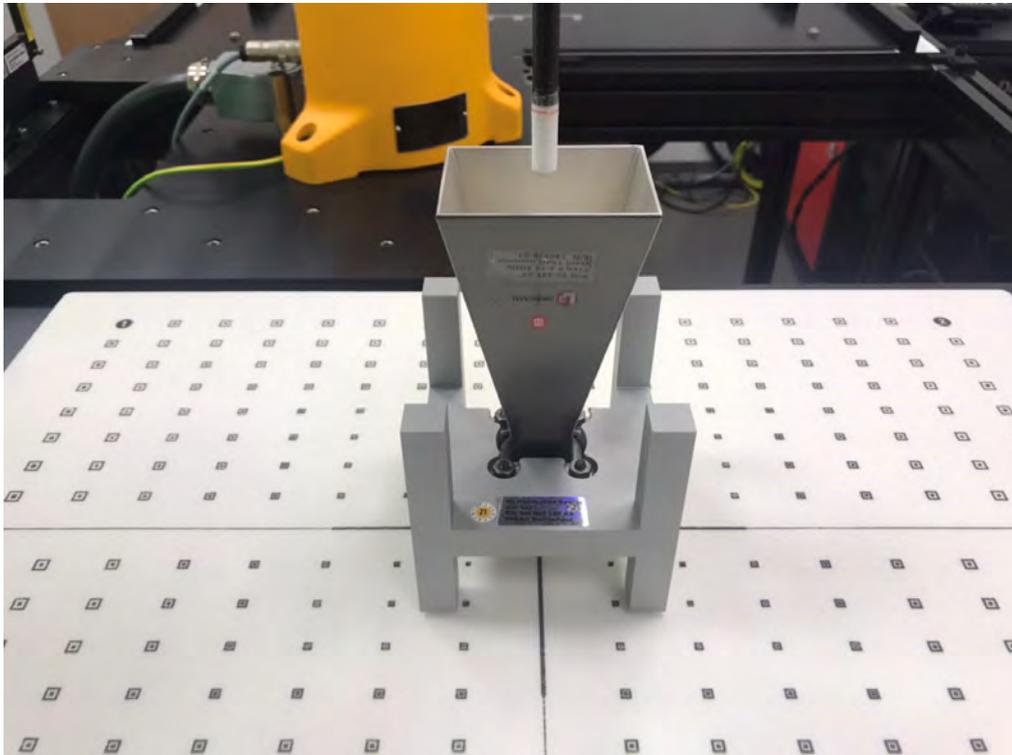
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Power Density Test System Verification

The system was verified to be within ± 0.66 dB of the power density targets on the calibration certificate according to the test system specification in the user's manual and calibration facility recommendation. The 0.66 dB deviation threshold represents the expanded uncertainty for system performance checks using SPEAG's mmWave verification sources. The same spatial resolution and measurement region used in the source calibration was applied during the system check.

The measured power density distribution of verification source was also confirmed through visual inspection to have no noticeable differences, both spatially (shape) and numerically (level) from the distribution provided by the manufacturer, per November 2017 TCBC Workshop Notes.



System Verification Setup Photo

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PD System Verification Results

The system was verified to be within ± 0.66 dB of the power density targets on the calibration certificate according to the test system specification in the user's manual and calibration facility recommendation. The 0.66 dB deviation threshold represents the expanded uncertainty for system performance checks using SPEAG's mmWave verification sources. The same spatial resolution and measurement region used in the source calibration was applied during the system check. The measured power density distribution of verification source was also confirmed through visual inspection to have no noticeable differences, both spatially (shape) and numerically (level) from the distribution provided by the manufacturer, per November 2017 TCBC Workshop Notes.

Frequency (MHz)	PD Verification Source (MHz)	Probe S/N	DAE S/N	Distance (mm)	Prad (mW)	Measured 4cm ² (W/m ²)	Target 4cm ² (W/m ²)	Deviation (dB)	Date
10000	10000	9399	1665	10	86.1	49.6	51.7	-0.18	May.25,2022

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1.10.3 SAR Tissue Verification

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

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

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

Measured Frequency (MHz)	Liquid Temp. (°C)	Target Dielectric Constant, ϵ_r	Target Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ_r	Measured Conductivity, σ (S/m)	% dev ϵ_r	% dev σ	Limit	Measurement Date
2402	21.7°C	39.282	1.757	39.159	1.790	-0.31%	1.87%	$\pm 5\%$	May. 20, 2022
2412		39.265	1.766	39.142	1.799	-0.31%	1.85%	$\pm 5\%$	
2437		39.222	1.788	39.097	1.821	-0.32%	1.80%	$\pm 5\%$	
2441		39.215	1.792	39.090	1.824	-0.32%	1.79%	$\pm 5\%$	
2450		39.200	1.800	39.074	1.832	-0.32%	1.77%	$\pm 5\%$	
2462		39.184	1.813	39.059	1.843	-0.32%	1.65%	$\pm 5\%$	
2480		39.160	1.832	39.036	1.859	-0.32%	1.47%	$\pm 5\%$	
5250	21.6°C	35.950	4.710	35.803	4.719	-0.41%	0.18%	$\pm 5\%$	May. 21, 2022
5290		35.910	4.750	35.757	4.760	-0.43%	0.20%	$\pm 5\%$	
5530	21.3°C	35.605	4.997	35.483	5.008	-0.34%	0.22%	$\pm 5\%$	May. 22, 2022
5570		35.545	5.039	35.437	5.048	-0.30%	0.20%	$\pm 5\%$	
5600		35.500	5.070	35.403	5.079	-0.27%	0.18%	$\pm 5\%$	
5690		35.410	5.160	35.300	5.171	-0.31%	0.21%	$\pm 5\%$	
5750	21.8°C	35.350	5.220	35.231	5.233	-0.34%	0.24%	$\pm 5\%$	May. 23, 2022
5775		35.325	5.245	35.203	5.258	-0.35%	0.26%	$\pm 5\%$	
6025	22.1°C	35.070	5.510	34.915	5.517	-0.44%	0.13%	$\pm 5\%$	May. 24, 2022
6185		34.878	5.698	34.723	5.684	-0.44%	-0.26%	$\pm 5\%$	
6345		34.686	5.887	34.531	5.851	-0.45%	-0.61%	$\pm 5\%$	
6500		34.500	6.070	34.345	6.015	-0.45%	-0.91%	$\pm 5\%$	
6505		34.494	6.076	34.339	6.020	-0.45%	-0.91%	$\pm 5\%$	
6665		34.302	6.261	34.147	6.190	-0.45%	-1.14%	$\pm 5\%$	
6825		34.110	6.447	33.955	6.361	-0.45%	-1.33%	$\pm 5\%$	
6985		33.918	6.633	33.763	6.533	-0.46%	-1.50%	$\pm 5\%$	
7000		33.900	6.650	33.745	6.549	-0.46%	-1.51%	$\pm 5\%$	

Table 2. Dielectric Parameters of Tissue Simulant Fluid

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1.10 System Components

EX3DV4 E-Field Probe

Construction	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)	
Calibration	Basic Broad Band Calibration in air Conversion Factors (CF) for HSL2450/5250/5600/5750/6500/7000 MHz Additional CF for other liquids and frequencies upon request	
Frequency	10 MHz to > 6 GHz, Linearity: ± 0.6 dB	
Directivity	± 0.3 dB in HSL (rotation around probe axis) ± 0.5 dB in tissue material (rotation normal to probe axis)	
Dynamic Range	10 μ W/g to > 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 μ W/g)	
Dimensions	Tip diameter: 2.5 mm	
Application	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields). Only probe which enables compliance testing for frequencies up to 6 GHz with precision of better 30%.	

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PHANTOM

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

DEVICE HOLDER

Construction	The device holder (Supporter) for Notebook is made by POM (polyoxymethylene resin) , which is non-metal and non-conductive. The height can be adjusted to fit varies kind of notebooks.	
		Device Holder

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1.11 Test Standards and Limits

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

Measurements and calculations to demonstrate compliance with MPE field strength or power density limits for devices operating above 6 GHz should be made at a minimum distance of 5 cm from the radiating source.

1. Limits for Occupational/Controlled exposure: 0.4 W/kg as averaged over the whole-body and spatial peak SAR not exceeding 8 W/kg as averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the hands, wrists, feet and ankles where the spatial peak SAR shall not exceed 20 W/kg, as averaged over a 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.

2. 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).

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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 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 .6)

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

RF Exposure limit for above 6GHz

According to ANSI/IEEE C95.1-1992, the criteria listed in the following Table shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in §1.1310.

Peak Spatially Averaged Power Density was evaluated over a circular area of 4cm² per interim FCC Guidance for near-field power density evaluations per October 2018 TCB Workshop notes

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f ²)	6
30-300	61.4	0.163	1.0	6
300-1500			f/300	6
1500-100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500			f/1500	30
1500-100,000			1.0	30

Table. RF exposure limits

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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 and IEC/IEEE 62209-1528:2020:

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

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2.2 Summary of SAR Results

AWAN Notebook mode

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
									Measured	Reported	
WLAN 802.11b	Bottom Surface	0	1	2412	14.00	13.96	1.011	100.93%	0.234	0.239	-
WLAN 802.11b	Bottom Surface	0	6	2437	14.00	13.93	1.011	101.62%	0.222	0.228	-
WLAN 802.11b	Bottom Surface	0	11	2462	14.00	13.99	1.011	100.23%	0.251	0.254	001
WLAN 802.11ac(160M) 5.2G	Bottom Surface	0	50	5250	10.00	9.99	1.015	100.23%	0.110	0.112	002
WLAN 802.11ac(80M) 5.3G	Bottom Surface	0	58	5290	10.00	9.93	1.015	101.62%	0.112	0.116	003
WLAN 802.11ac(160M) 5.6G	Bottom Surface	0	114	5570	10.00	9.99	1.015	100.23%	0.119	0.121	005
WLAN 802.11ac(80M) 5.8G	Bottom Surface	0	155	5775	10.00	9.96	1.015	100.93%	0.122	0.125	006
WLAN 802.11b	Bottom Surface	0	1	2412	14.00	13.97	1.011	100.69%	0.031	0.031	007
WLAN 802.11b	Bottom Surface	0	6	2437	14.00	13.88	1.011	102.80%	0.028	0.029	-
WLAN 802.11b	Bottom Surface	0	11	2462	14.00	13.96	1.011	100.93%	0.028	0.029	-
Bluetooth(GFSK)	Bottom Surface	0	0	2402	11.00	9.48	1.297	141.91%	0.048	0.087	008
WLAN 802.11ac(160M) 5.2G	Bottom Surface	0	50	5250	10.00	9.98	1.015	100.46%	0.103	0.105	009
WLAN 802.11ac(80M) 5.3G	Bottom Surface	0	58	5290	10.00	9.93	1.015	101.62%	0.099	0.102	010
WLAN 802.11ac(160M) 5.6G	Bottom Surface	0	114	5570	10.00	9.95	1.015	101.16%	0.074	0.076	012
WLAN 802.11ac(80M) 5.8G	Bottom Surface	0	155	5775	10.00	9.97	1.015	100.69%	0.069	0.070	013

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Tablet mode

Main

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
									Measured	Reported	
WLAN 802.11b	Top Edge	0	11	2462	14.00	13.99	1.01	100.23%	0.249	0.252	-
WLAN 802.11b	Back Surface	0	1	2412	14.00	13.96	1.01	100.33%	0.664	0.678	-
WLAN 802.11b	Back Surface	0	6	2437	14.00	13.93	1.01	101.62%	0.673	0.691	-
WLAN 802.11b	Back Surface	0	11	2462	14.00	13.99	1.01	100.23%	0.706	0.715	012
WLAN 802.11b	Left Edge	0	11	2462	14.00	13.99	1.01	100.23%	0.059	0.060	-

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
									Measured	Reported	
WLAN 802.11ac(160M) 5.2G	Top Edge	0	50	5250	10.00	9.99	1.02	100.23%	0.231	0.235	-
WLAN 802.11ac(160M) 5.2G	Back Surface	0	50	5250	10.00	9.99	1.02	100.23%	1.010	1.028	013
WLAN 802.11ac(160M) 5.2G	Left Edge	0	50	5250	10.00	9.99	1.02	100.23%	0.023	0.023	-

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
									Measured	Reported	
WLAN 802.11ac(80M) 5.3G	Top Edge	0	58	5290	10.00	9.93	1.02	101.62%	0.145	0.150	-
WLAN 802.11ac(80M) 5.3G	Back Surface	0	58	5290	10.00	9.93	1.02	101.62%	0.978	1.009	014
WLAN 802.11ac(80M) 5.3G	Left Edge	0	58	5290	10.00	9.93	1.02	101.62%	0.020	0.021	-

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
									Measured	Reported	
WLAN 802.11ac(160M) 5.6G	Top Edge	0	114	5570	10.00	9.99	1.02	100.23%	0.131	0.133	-
WLAN 802.11ac(160M) 5.6G	Back Surface	0	114	5570	10.00	9.99	1.02	100.23%	0.689	0.701	015
WLAN 802.11ac(160M) 5.6G	Left Edge	0	114	5570	10.00	9.99	1.02	100.23%	0.020	0.020	-

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
									Measured	Reported	
WLAN 802.11ac(80M) 5.8G	Top Edge	0	155	5775	10.00	9.96	1.02	100.93%	0.119	0.122	-
WLAN 802.11ac(80M) 5.8G	Back Surface	0	155	5775	10.00	9.96	1.02	100.93%	0.758	0.776	016
WLAN 802.11ac(80M) 5.8G	Left Edge	0	155	5775	10.00	9.96	1.02	100.93%	0.018	0.018	-

Aux

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
									Measured	Reported	
WLAN 802.11b	Top Edge	0	1	2412	14.00	13.97	1.01	100.69%	0.014	0.014	-
WLAN 802.11b	Back Surface	0	1	2412	14.00	13.97	1.01	100.69%	0.410	0.417	017
WLAN 802.11b	Back Surface	0	6	2437	14.00	13.88	1.01	102.80%	0.378	0.393	-
WLAN 802.11b	Back Surface	0	11	2462	14.00	13.86	1.01	100.93%	0.388	0.396	-
WLAN 802.11b	Right Edge	0	1	2412	14.00	13.97	1.01	100.69%	0.028	0.028	-

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
									Measured	Reported	
Bluetooth(GFSK)	Top Edge	0	0	2402	11.00	9.48	1.30	141.91%	0.004	0.008	-
Bluetooth(GFSK)	Back Surface	0	0	2402	11.00	9.48	1.30	141.91%	0.063	0.153	018
Bluetooth(GFSK)	Right Edge	0	0	2402	11.00	9.48	1.30	141.91%	0.006	0.011	-

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
									Measured	Reported	
WLAN 802.11ac(160M) 5.2G	Top Edge	0	50	5250	10.00	9.98	1.02	100.46%	0.005	0.005	-
WLAN 802.11ac(160M) 5.2G	Back Surface	0	50	5250	10.00	9.98	1.02	100.46%	0.884	0.901	019
WLAN 802.11ac(160M) 5.2G	Right Edge	0	50	5250	10.00	9.98	1.02	100.46%	0.034	0.034	-

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
									Measured	Reported	
WLAN 802.11ac(80M) 5.3G	Top Edge	0	58	5290	10.00	9.93	1.02	101.62%	0.006	0.006	-
WLAN 802.11ac(80M) 5.3G	Back Surface	0	58	5290	10.00	9.93	1.02	101.62%	0.916	0.945	020
WLAN 802.11ac(80M) 5.3G	Right Edge	0	58	5290	10.00	9.93	1.02	101.62%	0.037	0.038	-

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
									Measured	Reported	
WLAN 802.11ac(160M) 5.6G	Top Edge	0	114	5570	10.00	9.95	1.02	101.16%	0.006	0.006	-
WLAN 802.11ac(160M) 5.6G	Back Surface	0	114	5570	10.00	9.95	1.02	101.16%	0.646	0.663	021
WLAN 802.11ac(160M) 5.6G	Right Edge	0	114	5570	10.00	9.95	1.02	101.16%	0.034	0.035	-

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
									Measured	Reported	
WLAN 802.11ac(80M) 5.8G	Top Edge	0	155	5775	10.00	9.97	1.02	100.69%	0.004	0.004	-
WLAN 802.11ac(80M) 5.8G	Back Surface	0	155	5775	10.00	9.97	1.02	100.69%	0.779	0.796	022
WLAN 802.11ac(80M) 5.8G	Right Edge	0	155	5775	10.00	9.97	1.02	100.69%	0.037	0.038	-

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ZTX
Notebook mode

Main

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
									Measured	Reported	
WLAN 802.11b	Bottom Surface	0	1	2412	14.00	13.98	1.01	100.46%	0.267	0.271	023
WLAN 802.11b	Bottom Surface	0	6	2437	14.00	13.96	1.01	100.33%	0.241	0.246	-
WLAN 802.11b	Bottom Surface	0	11	2462	14.00	13.93	1.01	101.62%	0.209	0.215	-

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
									Measured	Reported	
WLAN 802.11ac(160M) 5.2G	Bottom Surface	0	50	5250	10.00	9.98	1.02	100.46%	0.115	0.117	024

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
									Measured	Reported	
WLAN 802.11ac(80M) 5.3G	Bottom Surface	0	58	5290	10.00	9.99	1.02	100.23%	0.101	0.103	025

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
									Measured	Reported	
WLAN 802.11ac(160M) 5.6G	Bottom Surface	0	114	5570	10.00	9.97	1.02	100.69%	0.142	0.145	026

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
									Measured	Reported	
WLAN 802.11ac(80M) 5.8G	Bottom Surface	0	155	5775	10.00	9.99	1.02	100.23%	0.118	0.120	027

Aux

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
									Measured	Reported	
WLAN 802.11b	Bottom Surface	0	1	2412	14.00	13.97	1.01	100.69%	0.186	0.189	028
WLAN 802.11b	Bottom Surface	0	6	2437	14.00	13.90	1.01	102.33%	0.158	0.163	-
WLAN 802.11b	Bottom Surface	0	11	2462	14.00	13.91	1.01	102.09%	0.160	0.165	-

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
									Measured	Reported	
Bluetooth(GFSK)	Bottom Surface	0	0	2402	11.00	9.21	1.30	151.01%	0.021	0.041	-
Bluetooth(GFSK)	Bottom Surface	0	39	2441	11.00	9.32	1.30	147.23%	0.022	0.042	-
Bluetooth(GFSK)	Bottom Surface	0	78	2480	11.00	9.48	1.30	141.91%	0.028	0.052	029

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
									Measured	Reported	
WLAN 802.11ac(160M) 5.2G	Bottom Surface	0	50	5250	10.00	9.98	1.02	100.46%	0.066	0.068	030

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
									Measured	Reported	
WLAN 802.11ac(80M) 5.3G	Bottom Surface	0	58	5290	10.00	9.92	1.02	101.86%	0.071	0.074	031

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
									Measured	Reported	
WLAN 802.11ac(160M) 5.6G	Bottom Surface	0	114	5570	10.00	9.94	1.02	101.39%	0.070	0.072	032

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
									Measured	Reported	
WLAN 802.11ac(80M) 5.8G	Bottom Surface	0	155	5775	10.00	9.93	1.02	101.62%	0.119	0.123	033

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Tablet mode

Main

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
									Measured	Reported	
WLAN 802.11b	Top Edge	0	1	2412	14.00	13.98	1.01	100.46%	0.285	0.289	-
WLAN 802.11b	Back Surface	0	1	2412	14.00	13.98	1.01	100.46%	0.823	0.836	034
WLAN 802.11b	Back Surface	0	6	2437	14.00	13.96	1.01	100.93%	0.757	0.772	-
WLAN 802.11b	Back Surface	0	11	2462	14.00	13.93	1.01	101.62%	0.811	0.833	-
WLAN 802.11b	Left Edge	0	1	2412	14.00	13.98	1.01	100.46%	0.066	0.067	-

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
									Measured	Reported	
WLAN 802.11ac(160M) 5.2G	Top Edge	0	50	5250	10.00	9.98	1.02	100.46%	0.108	0.110	-
WLAN 802.11ac(160M) 5.2G	Back Surface	0	50	5250	10.00	9.98	1.02	100.46%	0.843	0.860	035
WLAN 802.11ac(160M) 5.2G	Left Edge	0	50	5250	10.00	9.98	1.02	100.46%	0.020	0.020	-

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
									Measured	Reported	
WLAN 802.11ac(80M) 5.3G	Top Edge	0	58	5290	10.00	9.99	1.02	100.23%	0.123	0.125	-
WLAN 802.11ac(80M) 5.3G	Back Surface	0	58	5290	10.00	9.99	1.02	100.23%	0.832	0.846	036
WLAN 802.11ac(80M) 5.3G	Left Edge	0	58	5290	10.00	9.99	1.02	100.23%	0.021	0.021	-

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
									Measured	Reported	
WLAN 802.11ac(160M) 5.6G	Top Edge	0	114	5570	10.00	9.97	1.02	100.69%	0.125	0.128	-
WLAN 802.11ac(160M) 5.6G	Back Surface	0	114	5570	10.00	9.97	1.02	100.69%	0.789	0.806	037
WLAN 802.11ac(160M) 5.6G	Left Edge	0	114	5570	10.00	9.97	1.02	100.69%	0.020	0.020	-

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
									Measured	Reported	
WLAN 802.11ac(80M) 5.8G	Top Edge	0	155	5775	10.00	9.99	1.02	100.23%	0.138	0.140	-
WLAN 802.11ac(80M) 5.8G	Back Surface	0	155	5775	10.00	9.99	1.02	100.23%	0.884	0.899	038
WLAN 802.11ac(80M) 5.8G	Left Edge	0	155	5775	10.00	9.99	1.02	100.23%	0.022	0.022	-

Aux

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
									Measured	Reported	
WLAN 802.11b	Top Edge	0	1	2412	14.00	13.97	1.01	100.69%	0.020	0.020	-
WLAN 802.11b	Back Surface	0	1	2412	14.00	13.97	1.01	100.69%	0.454	0.462	039
WLAN 802.11b	Back Surface	0	6	2437	14.00	13.90	1.01	102.33%	0.434	0.449	-
WLAN 802.11b	Back Surface	0	11	2462	14.00	13.81	1.01	102.09%	0.419	0.432	-
WLAN 802.11b	Right Edge	0	1	2412	14.00	13.97	1.01	100.69%	0.043	0.044	-

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
									Measured	Reported	
Bluetooth(GFSK)	Top Edge	0	78	2480	11.00	9.48	1.30	141.91%	0.008	0.014	-
Bluetooth(GFSK)	Back Surface	0	78	2480	11.00	9.48	1.30	141.91%	0.055	0.102	040
Bluetooth(GFSK)	Right Edge	0	78	2480	11.00	9.48	1.30	141.91%	0.012	0.022	-

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
									Measured	Reported	
WLAN 802.11ac(160M) 5.2G	Top Edge	0	50	5250	10.00	9.98	1.02	100.46%	0.004	0.004	-
WLAN 802.11ac(160M) 5.2G	Back Surface	0	50	5250	10.00	9.98	1.02	100.46%	0.915	0.933	041
WLAN 802.11ac(160M) 5.2G	Right Edge	0	50	5250	10.00	9.98	1.02	100.46%	0.048	0.049	-

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
									Measured	Reported	
WLAN 802.11ac(80M) 5.3G	Top Edge	0	58	5290	10.00	9.92	1.02	101.86%	0.007	0.007	-
WLAN 802.11ac(80M) 5.3G	Back Surface	0	58	5290	10.00	9.92	1.02	101.86%	0.956	0.988	042
WLAN 802.11ac(80M) 5.3G	Right Edge	0	58	5290	10.00	9.92	1.02	101.86%	0.048	0.050	-

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
									Measured	Reported	
WLAN 802.11ac(160M) 5.6G	Top Edge	0	114	5570	10.00	9.94	1.02	101.39%	0.005	0.005	-
WLAN 802.11ac(160M) 5.6G	Back Surface	0	114	5570	10.00	9.94	1.02	101.39%	0.836	0.860	043
WLAN 802.11ac(160M) 5.6G	Right Edge	0	114	5570	10.00	9.94	1.02	101.39%	0.037	0.038	-

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		ID
									Measured	Reported	
WLAN 802.11ac(80M) 5.8G	Top Edge	0	155	5775	10.00	9.93	1.02	101.62%	0.004	0.004	-
WLAN 802.11ac(80M) 5.8G	Back Surface	0	155	5775	10.00	9.93	1.02	101.62%	0.559	0.577	044
WLAN 802.11ac(80M) 5.8G	Right Edge	0	155	5775	10.00	9.93	1.02	101.62%	0.035	0.036	-

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WIFI 6E

AWAN

Notebook mode

Main

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD mW/cm ² (4cm ²)	ID
									Measured	Reported		
U-Ni5 6.2GHz802.11ax(160M)	Bottom Surface	0	15	6025	10.00	9.97	1.01	100.69%	0.053	0.054	0.0367	045
	Bottom Surface	0	47	6185	10.00	9.99	1.01	100.23%	0.058	0.059	0.0382	046

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD mW/cm ² (4cm ²)	ID
									Measured	Reported		
U-Ni6 6.5GHz802.11ax(160M)	Bottom Surface	0	111	6505	10.00	9.97	1.01	100.69%	0.032	0.033	0.0213	047

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD mW/cm ² (4cm ²)	ID
									Measured	Reported		
U-Ni7 6.7GHz802.11ax(160M)	Bottom Surface	0	175	6825	10.00	9.98	1.01	100.46%	0.037	0.038	0.024	048

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD mW/cm ² (4cm ²)	ID
									Measured	Reported		
U-Ni8 7.0GHz 802.11ax(160M)	Bottom Surface	0	207	6985	10.00	9.98	1.01	100.46%	0.034	0.035	0.0211	049

Aux

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD mW/cm ² (4cm ²)	ID
									Measured	Reported		
U-Ni5 6.2GHz802.11ax(160M)	Bottom Surface	0	15	6025	10.00	9.95	1.01	101.16%	0.034	0.035	0.0259	050
U-Ni5 6.2GHz802.11ax(160M)	Bottom Surface	0	47	6185	10.00	9.97	1.01	100.69%	0.022	0.022	0.015	051

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD mW/cm ² (4cm ²)	ID
									Measured	Reported		
U-Ni6 6.5GHz802.11ax(160M)	Bottom Surface	0	111	6505	10.00	9.99	1.01	100.23%	0.021	0.021	0.0157	052

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD mW/cm ² (4cm ²)	ID
									Measured	Reported		
U-Ni7 6.7GHz802.11ax(160M)	Bottom Surface	0	175	6825	10.00	9.95	1.01	101.16%	0.048	0.049	0.0361	053

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD mW/cm ² (4cm ²)	ID
									Measured	Reported		
U-Ni8 7.0GHz 802.11ax(160M)	Bottom Surface	0	207	6985	10.00	9.96	1.01	100.93%	0.079	0.081	0.0586	054

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Tablet mode

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD mW/cm ² (4cm ²)	ID
									Measured	Reported		
U-NI-5 6.2GHz802.11ax(160M)	Top Edge	0	47	6185	10.00	9.99	1.013	100.23%	0.222	0.225	0.147	-
U-NI-5 6.2GHz802.11ax(160M)	Back Surface	0	15	6025	10.00	9.97	1.013	100.69%	0.979	0.999	0.645	055
U-NI-5 6.2GHz802.11ax(160M)	Back Surface	0	47	6185	10.00	9.99	1.013	100.23%	0.204	0.216	0.506	056
U-NI-5 6.2GHz802.11ax(160M)	Left Edge	0	47	6185	10.00	9.99	1.013	100.23%	0.051	0.052	0.034	-
U-NI-6 6.5GHz802.11ax(160M)	Top Edge	0	111	6505	10.00	9.97	1.013	100.69%	0.198	0.202	0.132	-
U-NI-6 6.5GHz802.11ax(160M)	Back Surface	0	111	6505	10.00	9.97	1.013	100.69%	0.325	0.342	0.475	057
U-NI-6 6.5GHz802.11ax(160M)	Left Edge	0	111	6505	10.00	9.97	1.013	100.69%	0.054	0.055	0.035	-
U-NI-7 6.7GHz802.11ax(160M)	Top Edge	0	175	6825	10.00	9.98	1.013	100.46%	0.245	0.249	0.164	-
U-NI-7 6.7GHz802.11ax(160M)	Back Surface	0	143	6665	10.00	9.92	1.013	101.86%	0.937	0.967	0.540	-
U-NI-7 6.7GHz802.11ax(160M)	Back Surface	0	175	6825	10.00	9.98	1.013	100.46%	1.000	1.018	0.619	058
U-NI-7 6.7GHz802.11ax(160M)	Left Edge	0	175	6825	10.00	9.98	1.013	100.46%	0.061	0.062	0.041	-
U-NI-8 7.0GHz 802.11ax(160M)	Top Edge	0	207	6985	10.00	9.98	1.011	100.46%	0.211	0.214	0.136	-
U-NI-8 7.0GHz 802.11ax(160M)	Back Surface	0	207	6985	10.00	9.98	1.011	100.46%	0.807	0.820	0.480	059
U-NI-8 7.0GHz 802.11ax(160M)	Left Edge	0	207	6985	10.00	9.98	1.011	100.46%	0.052	0.053	0.036	-
U-NI-5 6.2GHz802.11ax(160M)	Top Edge	0	47	6185	10.00	9.97	1.013	100.69%	0.011	0.011	0.004	-
U-NI-5 6.2GHz802.11ax(160M)	Back Surface	0	15	6025	10.00	9.95	1.013	101.16%	0.567	0.581	0.372	060
U-NI-5 6.2GHz802.11ax(160M)	Back Surface	0	47	6185	10.00	9.97	1.013	100.69%	0.797	0.813	0.518	061
U-NI-5 6.2GHz802.11ax(160M)	Right Edge	0	47	6185	10.00	9.97	1.013	100.69%	0.056	0.057	0.035	-
U-NI-6 6.5GHz802.11ax(160M)	Top Edge	0	111	6505	10.00	9.99	1.013	100.23%	0.013	0.013	0.008	-
U-NI-6 6.5GHz802.11ax(160M)	Back Surface	0	111	6505	10.00	9.99	1.013	100.23%	0.900	0.914	0.584	062
U-NI-6 6.5GHz802.11ax(160M)	Right Edge	0	111	6505	10.00	9.99	1.013	100.23%	0.060	0.061	0.033	-
U-NI-7 6.7GHz802.11ax(160M)	Top Edge	0	175	6825	10.00	9.95	1.013	101.16%	0.009	0.009	0.006	-
U-NI-7 6.7GHz802.11ax(160M)	Back Surface	0	143	6665	10.00	9.93	1.013	101.62%	0.818	0.842	0.516	-
U-NI-7 6.7GHz802.11ax(160M)	Back Surface	0	175	6825	10.00	9.95	1.013	101.16%	0.848	0.869	0.546	063
U-NI-7 6.7GHz802.11ax(160M)	Right Edge	0	175	6825	10.00	9.95	1.013	101.16%	0.056	0.057	0.037	-
U-NI-8 7.0GHz 802.11ax(160M)	Top Edge	0	207	6985	10.00	9.96	1.011	100.93%	0.008	0.009	0.006	-
U-NI-8 7.0GHz 802.11ax(160M)	Back Surface	0	207	6985	10.00	9.96	1.011	100.93%	0.724	0.739	0.465	064
U-NI-8 7.0GHz 802.11ax(160M)	Right Edge	0	207	6985	10.00	9.96	1.011	100.93%	0.053	0.054	0.035	-

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ZTX

Notebook mode

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD mW/cm ² (4cm ²)	ID
									Measured	Reported		
U-NI-5 6.2GHz802.11ax(160M)	Bottom Surface	0	15	6025	10.00	10.00	1.01	100.00%	0.057	0.058	0.0375	065
U-NI-5 6.2GHz802.11ax(160M)	Bottom Surface	0	47	6185	10.00	9.98	1.01	100.46%	0.071	0.072	0.0501	066
U-NI-6 6.5GHz802.11ax(160M)	Bottom Surface	0	111	6505	10.00	9.96	1.01	100.93%	0.068	0.070	0.0488	067
U-NI-7 6.7GHz802.11ax(160M)	Bottom Surface	0	143	6665	10.00	9.99	1.01	100.23%	0.047	0.048	0.0341	068
U-NI-8 7.0GHz 802.11ax (160M)	Bottom Surface	0	207	6985	10.00	10.00	1.01	100.00%	0.025	0.025	0.0158	069
U-NI-5 6.2GHz802.11ax(160M)	Bottom Surface	0	15	6025	10.00	9.88	1.01	102.80%	0.038	0.040	0.0236	070
U-NI-5 6.2GHz802.11ax(160M)	Bottom Surface	0	47	6185	10.00	9.96	1.01	100.93%	0.027	0.028	0.0175	071
U-NI-6 6.5GHz802.11ax(160M)	Bottom Surface	0	111	6505	10.00	9.96	1.01	100.93%	0.025	0.026	0.0166	072
U-NI-7 6.7GHz802.11ax(160M)	Bottom Surface	0	175	6825	10.00	9.98	1.01	100.46%	0.056	0.057	0.0404	073
U-NI-8 7.0GHz 802.11ax (160M)	Bottom Surface	0	207	6985	10.00	9.95	1.01	101.16%	0.096	0.098	0.0686	074

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Tablet mode

Main

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD mW/cm ² (4cm ²)	ID
									Measured	Reported		
U-NI-5.6.2GHz802.11ax(160M)	Top Edge	0	15	6025	10.00	10.00	1.01	100.00%	0.245	0.248	0.146	-
U-NI-5.6.2GHz802.11ax(160M)	Back Surface	0	15	6025	10.00	10.00	1.01	100.00%	0.875	0.886	0.586	75
U-NI-5.6.2GHz802.11ax(160M)	Back Surface	0	47	6185	10.00	9.98	1.01	100.46%	0.767	0.781	0.499	76
U-NI-5.6.2GHz802.11ax(160M)	Back Surface	0	79	6345	10.00	9.96	1.01	100.93%	0.754	0.771	0.473	-
U-NI-5.6.2GHz802.11ax(160M)	Left Edge	0	15	6025	10.00	10.00	1.01	100.00%	0.054	0.055	0.033	-

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD mW/cm ² (4cm ²)	ID
									Measured	Reported		
U-NI-6.5GHz802.11ax(160M)	Top Edge	0	111	6505	10.00	9.96	1.01	100.93%	0.198	0.202	0.105	-
U-NI-6.5GHz802.11ax(160M)	Back Surface	0	111	6505	10.00	9.96	1.01	100.93%	0.782	0.799	0.472	77
U-NI-6.5GHz802.11ax(160M)	Left Edge	0	111	6505	10.00	9.96	1.01	100.93%	0.046	0.047	0.029	-

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD mW/cm ² (4cm ²)	ID
									Measured	Reported		
U-NI-7.6.7GHz802.11ax(160M)	Top Edge	0	143	6665	10.00	9.99	1.01	100.23%	0.207	0.210	0.112	-
U-NI-7.6.7GHz802.11ax(160M)	Back Surface	0	143	6665	10.00	9.99	1.01	100.23%	0.680	0.690	0.457	78
U-NI-7.6.7GHz802.11ax(160M)	Left Edge	0	143	6665	10.00	9.99	1.01	100.23%	0.044	0.045	0.026	-

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD mW/cm ² (4cm ²)	ID
									Measured	Reported		
U-NI-8.7.0GHz 802.11ax (160M)	Top Edge	0	207	6985	10.00	10.00	1.01	100.00%	0.211	0.213	0.109	-
U-NI-8.7.0GHz 802.11ax (160M)	Back Surface	0	207	6985	10.00	10.00	1.01	100.00%	0.777	0.786	0.487	79
U-NI-8.7.0GHz 802.11ax (160M)	Left Edge	0	207	6985	10.00	10.00	1.01	100.00%	0.051	0.052	0.031	-

Aux

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD mW/cm ² (4cm ²)	ID
									Measured	Reported		
U-NI-5.6.2GHz802.11ax(160M)	Top Edge	0	47	6185	10.00	9.96	1.01	100.93%	0.007	0.007	0.005	-
U-NI-5.6.2GHz802.11ax(160M)	Back Surface	0	47	6185	10.00	9.96	1.01	100.93%	0.707	0.723	0.473	80
U-NI-5.6.2GHz802.11ax(160M)	Back Surface	0	79	6345	10.00	9.93	1.01	101.62%	0.658	0.677	0.444	81
U-NI-5.6.2GHz802.11ax(160M)	Right Edge	0	47	6185	10.00	9.96	1.01	100.93%	0.048	0.049	0.031	-

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD mW/cm ² (4cm ²)	ID
									Measured	Reported		
U-NI-6.5GHz802.11ax(160M)	Top Edge	0	111	6505	10.00	9.96	1.01	100.93%	0.005	0.006	0.004	-
U-NI-6.5GHz802.11ax(160M)	Back Surface	0	111	6505	10.00	9.96	1.01	100.93%	0.781	0.798	0.519	82
U-NI-6.5GHz802.11ax(160M)	Right Edge	0	111	6505	10.00	9.96	1.01	100.93%	0.042	0.043	0.024	-

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD mW/cm ² (4cm ²)	ID
									Measured	Reported		
U-NI-7.6.7GHz802.11ax(160M)	Top Edge	0	175	6825	10.00	9.98	1.01	100.46%	0.006	0.006	0.004	-
U-NI-7.6.7GHz802.11ax(160M)	Back Surface	0	143	6665	10.00	9.97	1.01	100.69%	0.774	0.789	0.499	-
U-NI-7.6.7GHz802.11ax(160M)	Back Surface	0	175	6825	10.00	9.98	1.01	100.46%	0.803	0.817	0.528	83
U-NI-7.6.7GHz802.11ax(160M)	Right Edge	0	175	6825	10.00	9.98	1.01	100.46%	0.047	0.048	0.026	-

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Estimated APD mW/cm ² (4cm ²)	ID
									Measured	Reported		
U-NI-8.7.0GHz 802.11ax (160M)	Top Edge	0	207	6985	10.00	9.95	1.01	101.16%	0.004	0.004	0.002	-
U-NI-8.7.0GHz 802.11ax (160M)	Back Surface	0	207	6985	10.00	9.95	1.01	101.16%	0.666	0.681	0.443	84
U-NI-8.7.0GHz 802.11ax (160M)	Right Edge	0	207	6985	10.00	9.95	1.01	101.16%	0.044	0.045	0.025	-

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2.3 Summary of PD Results

AWAN

Main

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Tune-up Scaling	Duty cycle scaling	Measurement uncertainty	PD result(4cm)				ID
										Measured Total psPD (mW/cm ²)	Reported Total psPD (mW/cm ²)	Measured Normal psPD (mW/cm ²)	Reported Normal psPD (mW/cm ²)	
WLAN 6E 802.11ax(160M) U-NII-5	Back Surface	2	15	6025	10.00	9.97	100.69%	1.013	1.55	0.627	0.991	0.32	0.506	85
	Back Surface	2	47	6185	10.00	9.99	100.23%	1.013	1.55	0.515	0.810	0.252	0.397	86
WLAN 6E 802.11ax(160M) U-NII-6	Back Surface	2	111	6505	10.00	9.97	100.69%	1.013	1.55	0.532	0.841	0.310	0.490	87
WLAN 6E 802.11ax(160M) U-NII-7	Back Surface	2	175	6825	10.00	9.98	100.46%	1.013	1.55	0.464	0.732	0.266	0.420	88
WLAN 6E 802.11ax(160M) U-NII-8	Back Surface	2	207	6985	10.00	9.98	100.46%	1.013	1.55	0.310	0.489	0.140	0.221	89

Aux

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Tune-up Scaling	Duty cycle scaling	Measurement uncertainty	PD result(4cm)				ID
										Measured Total psPD (mW/cm ²)	Reported Total psPD (mW/cm ²)	Measured Normal psPD (mW/cm ²)	Reported Normal psPD (mW/cm ²)	
WLAN 6E 802.11ax(160M) U-NII-5	Back Surface	2	15	6025	10.00	9.95	101.16%	1.013	1.55	0.468	0.743	0.281	0.446	90
	Back Surface	2	47	6185	10.00	9.97	100.69%	1.013	1.55	0.395	0.625	0.211	0.334	91
WLAN 6E 802.11ax(160M) U-NII-6	Back Surface	2	111	6505	10.00	9.99	100.23%	1.013	1.55	0.401	0.631	0.197	0.310	92
WLAN 6E 802.11ax(160M) U-NII-7	Back Surface	2	175	6825	10.00	9.95	101.16%	1.013	1.55	0.381	0.605	0.175	0.278	93
WLAN 6E 802.11ax(160M) U-NII-8	Back Surface	2	207	6985	10.00	9.96	100.93%	1.013	1.55	0.299	0.474	0.131	0.208	94

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ZTX

Main

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Tune-up Scaling	Duty cycle scaling	Measurement uncertainty	PD result(4cm)				ID
										Measured Total psPD (mW/cm ²)	Reported Total psPD (mW/cm ²)	Measured Normal psPD (mW/cm ²)	Reported Normal psPD (mW/cm ²)	
WLAN 6E 802.11ax(160M) U-NII-5	Back Surface	2	15	6025	10.00	10.00	100.00%	1.01	1.55	0.556	0.873	0.527	0.827	95
	Back Surface	2	47	6185	10.00	9.98	100.46%	1.01	1.55	0.308	0.486	0.279	0.440	96
WLAN 6E 802.11ax(160M) U-NII-6	Back Surface	2	111	6505	10.00	9.96	100.93%	1.01	1.55	0.277	0.439	0.253	0.401	97
WLAN 6E 802.11ax(160M) U-NII-7	Back Surface	2	143	6665	10.00	9.99	100.23%	1.01	1.55	0.458	0.721	0.418	0.658	98
WLAN 6E 802.11ax(160M) U-NII-8	Back Surface	2	207	6985	10.00	10.00	100.00%	1.01	1.55	0.305	0.479	0.289	0.454	99

Aux

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Tune-up Scaling	Duty cycle scaling	Measurement uncertainty	PD result(4cm)				ID
										Measured Total psPD (mW/cm ²)	Reported Total psPD (mW/cm ²)	Measured Normal psPD (mW/cm ²)	Reported Normal psPD (mW/cm ²)	
WLAN 6E 802.11ax(160M) U-NII-5	Back Surface	2	47	6185	10.00	9.96	100.93%	1.01	1.55	0.376	0.596	0.345	0.547	100
	Back Surface	2	79	6345	10.00	9.93	101.62%	1.01	1.55	0.416	0.664	0.378	0.603	101
WLAN 6E 802.11ax(160M) U-NII-6	Back Surface	2	111	6505	10.00	9.96	100.93%	1.01	1.55	0.418	0.662	0.368	0.583	102
WLAN 6E 802.11ax(160M) U-NII-7	Back Surface	2	175	6825	10.00	9.98	100.46%	1.01	1.55	0.415	0.655	0.377	0.595	103
WLAN 6E 802.11ax(160M) U-NII-8	Back Surface	2	207	6985	10.00	9.95	101.16%	1.01	1.55	0.419	0.666	0.390	0.619	104

Note:

$$\text{Scaling} = \frac{\text{reported SAR}}{\text{measured SAR}} = \frac{P_2(\text{mW})}{P_1(\text{mW})} = 10^{\left(\frac{P_2 - P_1}{10}\right)} (\text{dBm})$$

$$\text{Reported SAR} = \text{measured SAR} * (\text{scaling})$$

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

2.4 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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SGS Taiwan Ltd.

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

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

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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
WLAN 6GHz Main + BT Aux	Yes
WLAN 6GHz Main + WLAN 6GHz Aux	Yes
WLAN 6GHz Main + WLAN 6GHz Aux + BT Aux	Yes

Note:

1. Bluetooth and WLAN Aux share the same antenna path, and BT can transmit with WLAN Main simultaneously.
2. For 2.4/5/6GHz WLAN Main and Aux antennas, the maximum output power of each antenna during simultaneous transmission is the same with (or less than) that used in standalone transmission, and we used the sum of 1-g SAR provision in KDB447498D01 to exclude the simultaneous transmitted SAR measurement.

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3.1 Estimated SAR calculation

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

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

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

3.2 SPLSR evaluation and analysis

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

The simultaneous transmitting antennas in each operating mode and exposure condition combination must be considered one pair at a time to determine the SAR to peak location separation ratio to qualify for test exclusion.

The ratio is determined by $(\text{SAR1} + \text{SAR2})^{1.5}/R_i$, rounded to two decimal digits, and must be ≤ 0.04 for all antenna pairs in the configuration to qualify for 1-g SAR test exclusion.

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

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

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Simultaneous Transmission Combination

AWAN

Notebook

Exposure Position	Reported SAR							Scenario1	Scenario2	Scenario3	Scenario4	Scenario5	Scenario6	Scenario7	Scenario8	
	2	3	4	5	7	8	9	2+7	2+3	4+7	4+5	4+5+7	7+8	8+9	7+8+9	
	2.4GHz WLAN Main	2.4GHz WLAN Aux	5GHz WLAN Main	5GHz WLAN Aux	Bluetooth Aux	6GHz WLAN Main	6GHz WLAN Aux	Summed								
Bottom Surface	0	0.254	0.031	0.125	0.105	0.087	0.059	0.081	0.341	0.285	0.212	0.230	0.317	0.146	0.140	0.227

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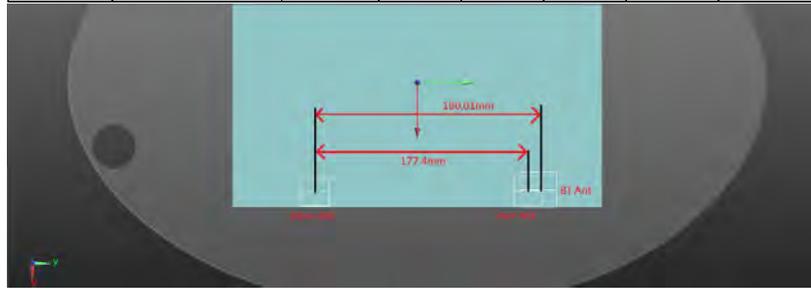
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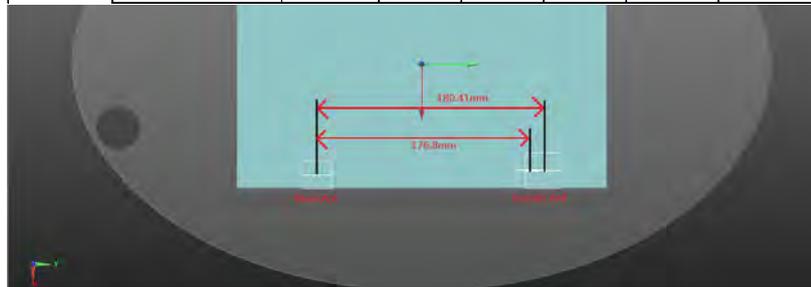
Tablet mode

Exposure Position	Reported SAR								Scenario1	Scenario2	Scenario3	Scenario4	Scenario5	Scenario6	Scenario7	Scenario8
	2	3	4	5	7	8	9	2+7	2+3	4+7	4+5	4+5+7	7+8	8+9	7+8+9	
	2.4GHz WLAN Main	2.4GHz WLAN Aux	5GHz WLAN Main	5GHz WLAN Aux	Bluetooth Aux	6GHz WLAN Main	6GHz WLAN Aux	Summed								
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
Top Edge	0	0.252	0.014	0.235	0.006	0.008	0.249	0.013	0.260	0.266	0.243	0.241	0.249	0.257	0.262	0.270
Back Surface	0	0.715	0.417	1.028	0.945	0.153	1.018	0.914	0.868	1.132	1.181	1.973	2.126	1.171	1.932	2.085
Right Edge	0	-	0.028	-	0.038	0.011	-	0.061	0.011	0.028	0.011	0.038	0.049	0.011	0.061	0.072
Left Edge	0	0.060	-	0.023	-	-	0.062	-	0.060	0.060	0.023	0.023	0.023	0.062	0.062	0.062

Scenario 5:									
Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Bottom Surface	WLAN 5G Main	1.028	93.60	-86.00	-2.11	-	-	-	-
	WLAN 5G Aux	0.945	93.40	91.40	-2.05	1.973	177.40	0.016	SPLSR ≤ 0.04, Not required
	BT Aux	0.153	95.40	94.00	-1.99	1.181	180.01	0.007	SPLSR ≤ 0.04, Not required
	WLAN 5G Aux + BT	1.098	93.40	91.40	-2.05	2.126	177.40	0.017	SPLSR ≤ 0.04, Not required



Scenario 8:									
Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Bottom Surface	WLAN 6E Main	1.018	94.00	-86.40	-2.22	-	-	-	-
	WLAN 6E Aux	0.914	93.20	90.40	-2.06	1.932	176.80	0.015	SPLSR ≤ 0.04, Not required
	BT Aux	0.153	95.40	94.00	-1.99	1.171	180.41	0.007	SPLSR ≤ 0.04, Not required
	WLAN 6E Aux + BT	1.067	93.20	90.40	-2.06	2.085	176.80	0.017	SPLSR ≤ 0.04, Not required



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**ZTX
Notebook**

Exposure Position	Reported SAR								Scenario1	Scenario2	Scenario3	Scenario4	Scenario5	Scenario6	Scenario7	Scenario8
	2	3	4	5	7	8	9	2+7	2+3	4+7	4+5	4+5+7	7+8	8+9	7+8+9	
	2.4GHz WLAN Main	2.4GHz WLAN Aux	5GHz WLAN Main	5GHz WLAN Aux	Bluetooth Aux	6GHz WLAN Main	6GHz WLAN Aux	Summed								
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
Bottom Surface	0	0.271	0.189	0.151	0.123	0.052	0.071	0.057	0.323	0.460	0.203	0.274	0.326	0.123	0.128	0.180

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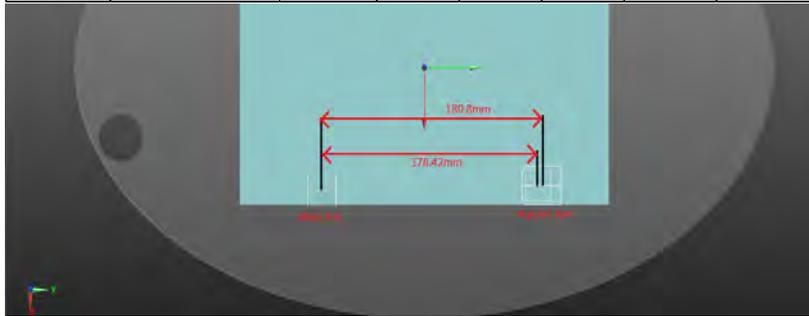
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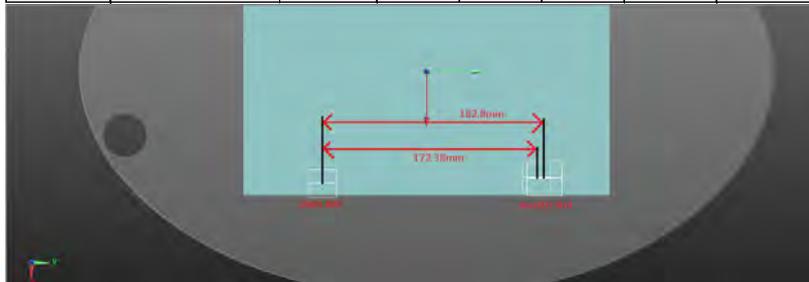
Tablet mode

Exposure Position	Reported SAR								Scenario1	Scenario2	Scenario3	Scenario4	Scenario5	Scenario6	Scenario7	Scenario8
	2	3	4	5	7	8	9	2+7	2+3	4+7	4+5	4+5+7	7+8	8+9	7+8+9	
	2.4GHz WLAN Main	2.4GHz WLAN Aux	5GHz WLAN Main	5GHz WLAN Aux	Bluetooth Aux	6GHz WLAN Main	6GHz WLAN Aux	Summed	Summed	Summed	Summed	Summed	Summed	Summed	Summed	
Top Edge	0	0.289	0.020	0.146	0.007	0.014	0.248	0.007	0.303	0.309	0.160	0.153	0.167	0.262	0.255	0.269
Back Surface	0	0.836	0.462	0.899	0.888	0.102	0.886	0.817	0.938	1.298	1.001	1.887	1.989	0.988	1.703	1.805
Right Edge	0	-	0.044	-	0.050	0.022	-	0.049	0.022	0.044	0.022	0.050	0.072	0.022	0.049	0.071
Left Edge	0	0.067	-	0.022	-	-	0.055	-	0.067	0.067	0.022	0.022	0.022	0.055	0.055	0.055

Scenario 5:									
Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Bottom Surface	WLAN 5G Main	0.899	94.00	-85.20	-2.30	-	-	-	-
	WLAN 5G Aux	0.988	91.60	93.20	-2.28	1.887	178.42	0.015	SPLSR ≤ 0.04, Not required
	BT Aux	0.102	94.40	95.60	-2.21	1.001	180.80	0.006	SPLSR ≤ 0.04, Not required
	WLAN 5G Aux + BT	1.090	91.60	93.20	-2.28	1.989	178.42	0.016	SPLSR ≤ 0.04, Not required



Scenario 8:									
Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Bottom Surface	WLAN 6E Main	0.886	94.20	-87.20	-2.28	-	-	-	-
	WLAN 6E Aux	0.817	102.00	85.00	-2.11	1.703	172.38	0.013	SPLSR ≤ 0.04, Not required
	BT Aux	0.102	94.40	95.60	-2.21	0.988	182.80	0.005	SPLSR ≤ 0.04, Not required
	WLAN 6E Aux + BT	0.919	102.00	85.00	-2.11	1.805	172.38	0.001	SPLSR ≤ 0.04, Not required



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4. Instruments List

SAR Test Site:					
Manufacturer	Device	Type	Serial number	Date of last calibration	Date of next calibration
SPEAG	Dosimetric E-Field Probe	EX3DV4	7686	Oct/05/2021	Oct/06/2022
SPEAG	E-field Probe for Near Field Application	EUmmWV3	9399	Jan/26/2022	Jan/25/2023
SPEAG	System Validation Dipole	D2450V2	727	Apr/25/2022	Apr/24/2023
SPEAG	System Validation Dipole	D5GHzV2	1023	Jan/27/2022	Jan/26/2023
SPEAG	System Validation Dipole	D6.5GHzV2	1006	Aug/26/2021	Aug/25/2022
SPEAG	System Validation Dipole	D7GHzV2	1007	Aug/26/2021	Aug/25/2022
SPEAG	5G Verification Source 10GHz	5G-Veri10	1021	Jan/24/2022	Jan/23/2023
SPEAG	Data acquisition Electronics	DAE4	1665	Feb/28/2022	Feb/27/2023
SPEAG	Software	DASY 52 V52.10.4	N/A	Calibration not required	Calibration not required
SPEAG	Phantom	ELI	N/A	Calibration not required	Calibration not required
SPEAG	Phantom	mmWave Phantom	N/A	Calibration not required	Calibration not required
SPEAG	Dielectric Assessment Kit	DAKS-3.5	1053	Feb/28/2022	Feb/27/2023
Agilent	Dual-directional coupler	772D	MY52180142	Nov/02/2021	Nov/01/2022
Agilent	Dual-directional coupler	778D	MY52180302	Oct/29/2021	Oct/28/2022
R&S	MXG Analog Signal Generator	SMB100A03	182996	Dec/08/2021	Dec/07/2022
R&S	Power Meter	NRX	102191	Jan/22/2022	Jan/21/2023
R&S	Power Sensor	NRP18S	101358	Jan/22/2022	Jan/21/2023
R&S	Power Sensor	NRP18S	109065	Oct/12/2021	Oct/11/2022
LKM	Digital thermometer	DTM3000	EC14010603	Nov/09/2021	Nov/08/2022
TECPEL	Digital thermometer	DTM-303A	TP190085	Jan/14/2022	Jan/13/2023

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5. Measurements

Date: 2022/5/20

ID: 001

Report No. : TESA2204000084ES

WLAN 802.11b_Body_Bottom Surface_CH 11_Main_0mm

Communication System: WLAN; Frequency: 2462 MHz; Duty Cycle: 1:1.011

Medium parameters used: $f = 2462$ MHz; $\sigma = 1.843$ S/m; $\epsilon_r = 39.059$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.32, 8.32, 8.32); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 0.369 W/kg

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

Reference Value = 14.17 V/m; Power Drift = -0.04 dB

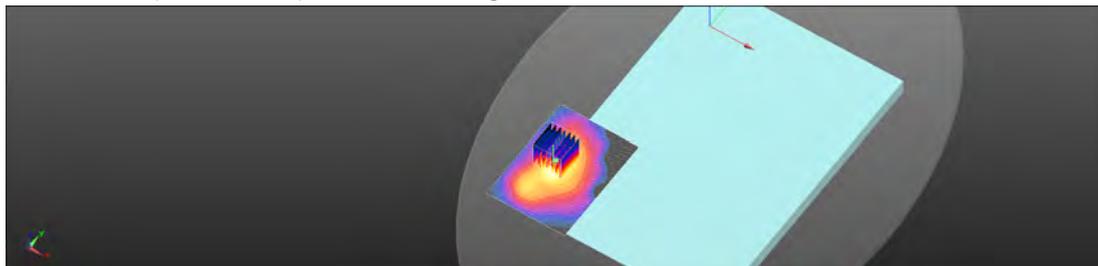
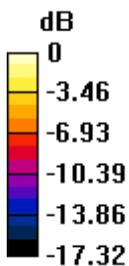
Peak SAR (extrapolated) = 0.509 W/kg

SAR(1 g) = 0.251 W/kg; SAR(10 g) = 0.128 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 58.7%

Maximum value of SAR (measured) = 0.372 W/kg



0 dB = 0.372 W/kg = -4.30 dBW/kg

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Date: 2022/5/21

ID: 002

Report No. :TESA2204000084ES

WLAN 802.11ac(160M) 5.2G_Body_Bottom Surface_CH 50_Main_0mm

Communication System: WLAN; Frequency: 5250 MHz; Duty Cycle: 1:1.015

Medium parameters used: $f = 5250 \text{ MHz}$; $\sigma = 4.719 \text{ S/m}$; $\epsilon_r = 35.803$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 21.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.81, 5.81, 5.81); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 0.238 W/kg

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

Reference Value = 6.113 V/m; Power Drift = 0.05 dB

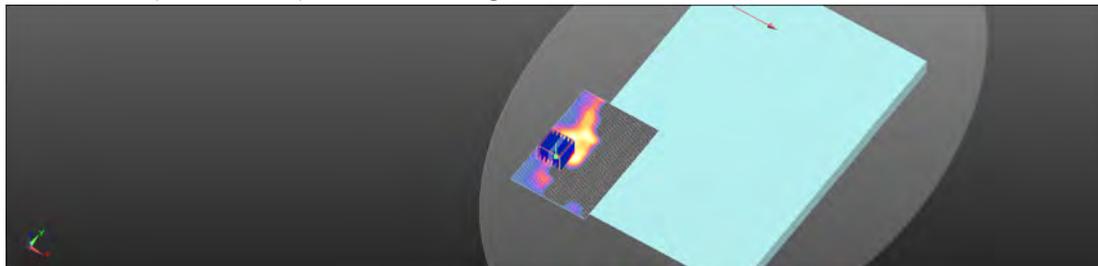
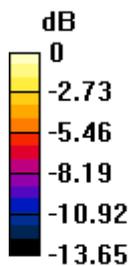
Peak SAR (extrapolated) = 0.510 W/kg

SAR(1 g) = 0.110 W/kg; SAR(10 g) = 0.042 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 55.4%

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



0 dB = 0.219 W/kg = -6.60 dBW/kg

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Date: 2022/5/21

ID: 003

Report No. :TESA2204000084ES

WLAN 802.11ac(80M) 5.3G_Body_Bottom Surface_CH 58_Main_0mm

Communication System: WLAN; Frequency: 5290 MHz; Duty Cycle: 1:1.015

Medium parameters used: $f = 5290 \text{ MHz}$; $\sigma = 4.76 \text{ S/m}$; $\epsilon_r = 35.757$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 21.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.81, 5.81, 5.81); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 0.233 W/kg

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

Reference Value = 6.290 V/m; Power Drift = 0.03 dB

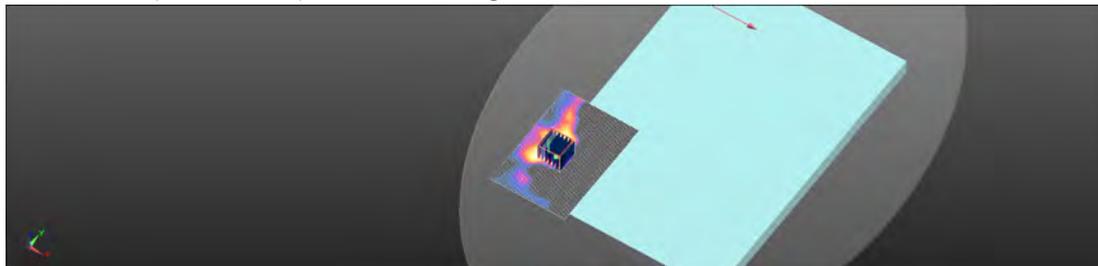
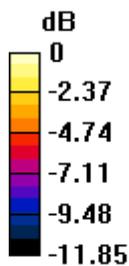
Peak SAR (extrapolated) = 0.365 W/kg

SAR(1 g) = 0.112 W/kg; SAR(10 g) = 0.040 W/kg

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

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

Maximum value of SAR (measured) = 0.215 W/kg



0 dB = 0.215 W/kg = -6.67 dBW/kg

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Date: 2022/5/22

ID: 004

Report No. :TESA2204000084ES

WLAN 802.11ac(160M) 5.6G_Body_Bottom Surface_CH 114_Main_0mm

Communication System: WLAN; Frequency: 5570 MHz; Duty Cycle: 1:1.015

Medium parameters used: $f = 5570$ MHz; $\sigma = 5.048$ S/m; $\epsilon_r = 35.347$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.16, 5.16, 5.16); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 0.228 W/kg

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

Reference Value = 4.635 V/m; Power Drift = 0.04 dB

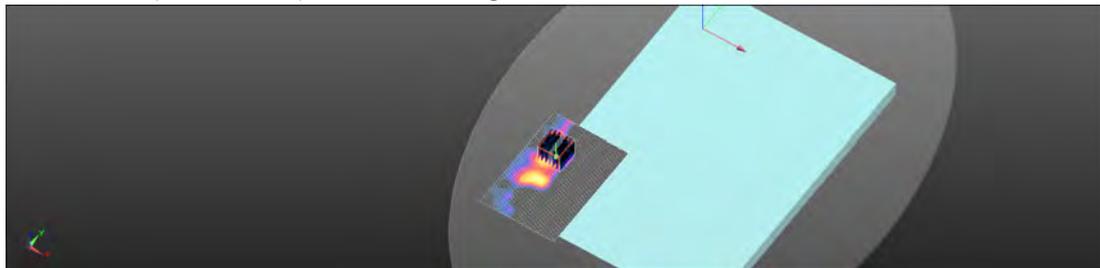
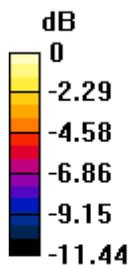
Peak SAR (extrapolated) = 0.486 W/kg

SAR(1 g) = 0.119 W/kg; SAR(10 g) = 0.046 W/kg

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

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

Maximum value of SAR (measured) = 0.246 W/kg



0 dB = 0.246 W/kg = -6.09 dBW/kg

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Date: 2022/5/23

ID: 005

Report No. : TESA2204000084ES

WLAN 802.11ac(80M) 5.8G_Body_Bottom Surface_CH 155_Main_0mm

Communication System: WLAN; Frequency: 5775 MHz; Duty Cycle: 1:1.015

Medium parameters used: $f = 5775 \text{ MHz}$; $\sigma = 5.258 \text{ S/m}$; $\epsilon_r = 35.203$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.3, 5.3, 5.3); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 0.264 W/kg

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

Reference Value = 4.895 V/m; Power Drift = 0.04 dB

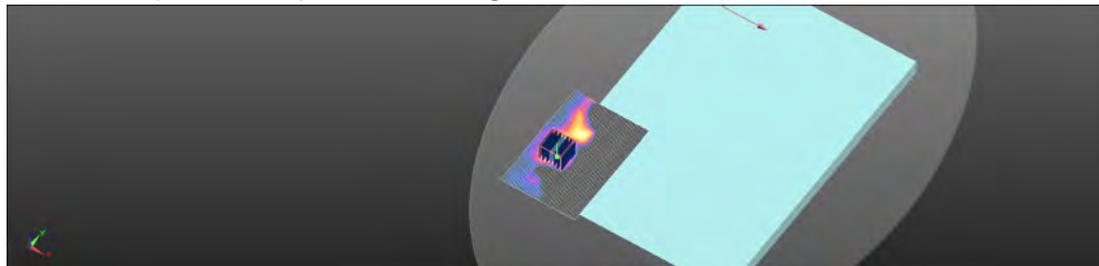
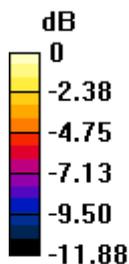
Peak SAR (extrapolated) = 0.452 W/kg

SAR(1 g) = 0.122 W/kg; SAR(10 g) = 0.044 W/kg

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

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

Maximum value of SAR (measured) = 0.248 W/kg



0 dB = 0.248 W/kg = -6.05 dBW/kg

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Date: 2022/5/20

ID: 006

Report No. :TESA2204000084ES

WLAN 802.11b_Body_Bottom Surface_CH 1_Aux_0mm

Communication System: WLAN; Frequency: 2412 MHz; Duty Cycle: 1:1.011

Medium parameters used: $f = 2412 \text{ MHz}$; $\sigma = 1.799 \text{ S/m}$; $\epsilon_r = 39.142$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.32, 8.32, 8.32); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 0.0559 W/kg

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

Reference Value = 3.112 V/m; Power Drift = 0.01 dB

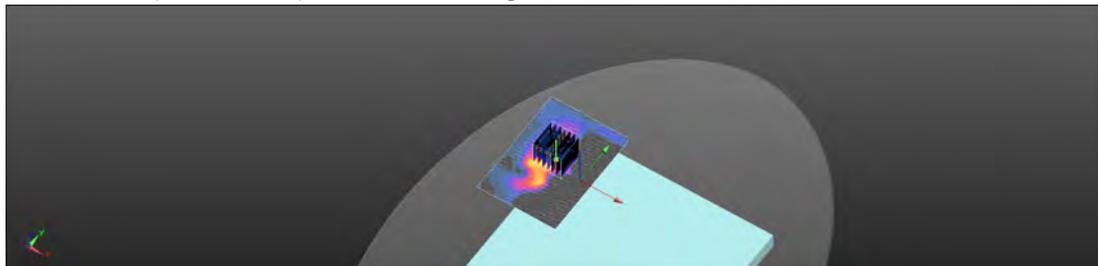
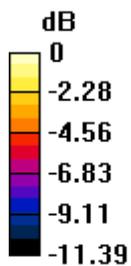
Peak SAR (extrapolated) = 0.0950 W/kg

SAR(1 g) = 0.031 W/kg; SAR(10 g) = 0.013 W/kg

Smallest distance from peaks to all points 3 dB below = 7 mm

Ratio of SAR at M2 to SAR at M1 = 55.5%

Maximum value of SAR (measured) = 0.0583 W/kg



0 dB = 0.0583 W/kg = -12.34 dBW/kg

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Date: 2022/5/20

ID: 007

Report No. :TESA2204000084ES

Bluetooth(GFSK)_Body_Bottom Surface_CH 0_Aux_0mm

Communication System: Bluetooth; Frequency: 2402 MHz;Duty Cycle: 1:1.297

Medium parameters used: $f = 2402$ MHz; $\sigma = 1.79$ S/m; $\epsilon_r = 39.159$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.32, 8.32, 8.32); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 0.0667 W/kg

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

Reference Value = 5.682 V/m; Power Drift = -0.03 dB

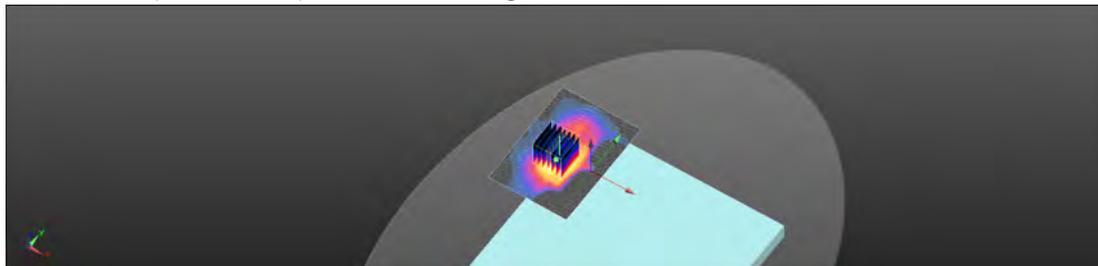
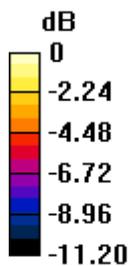
Peak SAR (extrapolated) = 0.0940 W/kg

SAR(1 g) = 0.048 W/kg; SAR(10 g) = 0.026 W/kg

Smallest distance from peaks to all points 3 dB below = 9.5 mm

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

Maximum value of SAR (measured) = 0.0689 W/kg



0 dB = 0.0689 W/kg = -11.62 dBW/kg

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Date: 2022/5/21

ID: 008

Report No. : TESA2204000084ES

WLAN 802.11ac(160M) 5.2G_Body_Bottom Surface_CH 50_Aux_0mm

Communication System: WLAN; Frequency: 5250 MHz; Duty Cycle: 1:1.015

Medium parameters used: $f = 5250$ MHz; $\sigma = 4.719$ S/m; $\epsilon_r = 35.803$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 21.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.81, 5.81, 5.81); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x131x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.178 W/kg

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

Reference Value = 2.221 V/m; Power Drift = -0.04 dB

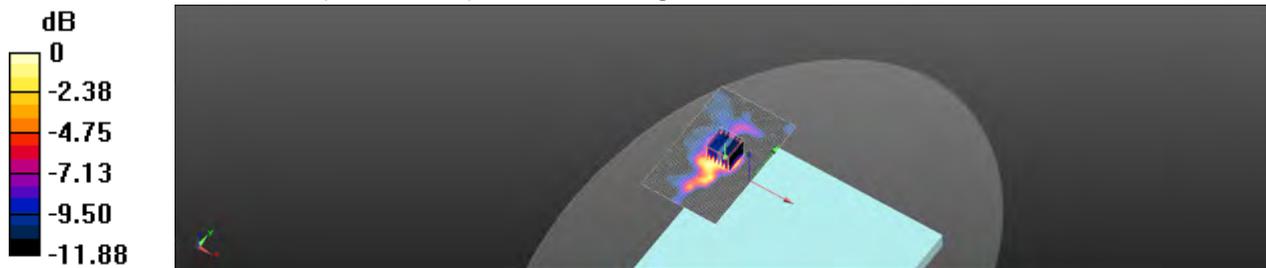
Peak SAR (extrapolated) = 0.328 W/kg

SAR(1 g) = 0.103 W/kg; SAR(10 g) = 0.044 W/kg

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

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

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



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

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Date: 2022/5/21

ID: 009

Report No. : TESA2204000084ES

WLAN 802.11ac(80M) 5.3G_Body_Bottom Surface_CH 58_Aux_0mm

Communication System: WLAN; Frequency: 5290 MHz; Duty Cycle: 1:1.015

Medium parameters used: $f = 5290 \text{ MHz}$; $\sigma = 4.76 \text{ S/m}$; $\epsilon_r = 35.757$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 21.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.81, 5.81, 5.81); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x131x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.183 W/kg

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

Reference Value = 1.562 V/m; Power Drift = -0.05 dB

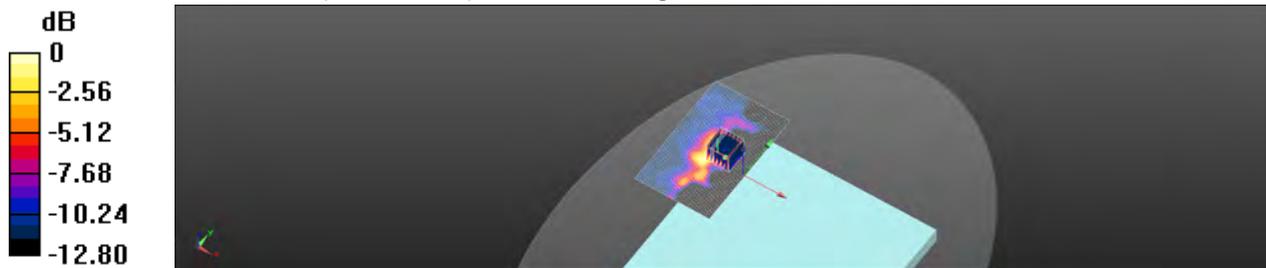
Peak SAR (extrapolated) = 0.329 W/kg

SAR(1 g) = 0.099 W/kg; SAR(10 g) = 0.029 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 57%

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



0 dB = 0.191 W/kg = -7.19 dBW/kg

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Date: 2022/5/22

ID: 010

Report No. :TESA2204000084ES

WLAN 802.11ac(160M) 5.6G_Body_Bottom Surface_CH 114_Aux_0mm

Communication System: WLAN; Frequency: 5570 MHz; Duty Cycle: 1:1.015

Medium parameters used: $f = 5570 \text{ MHz}$; $\sigma = 5.048 \text{ S/m}$; $\epsilon_r = 35.437$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.3, 5.3, 5.3); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (111x131x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.188 W/kg

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

Reference Value = 5.475 V/m; Power Drift = -0.04 dB

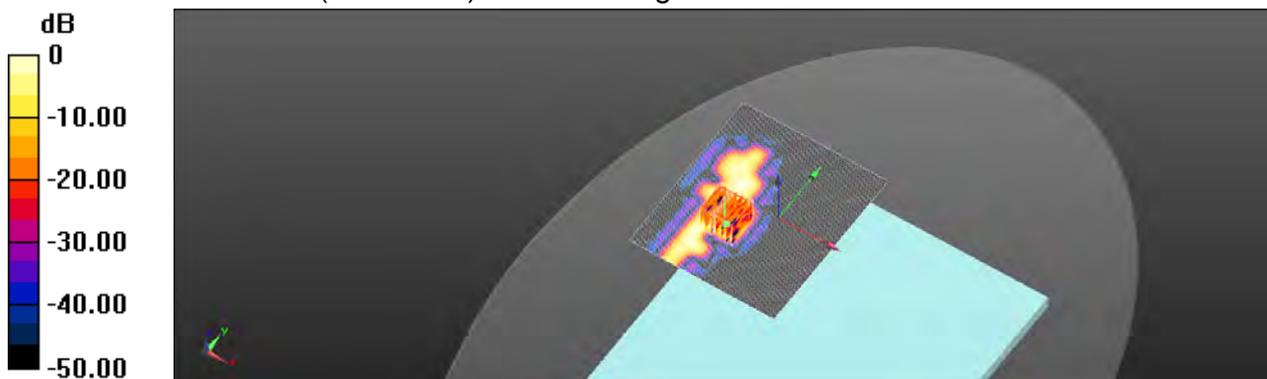
Peak SAR (extrapolated) = 0.301 W/kg

SAR(1 g) = 0.074 W/kg; SAR(10 g) = 0.022 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 50%

Maximum value of SAR (measured) = 0.137 W/kg



0 dB = 0.137 W/kg = -8.64 dBW/kg

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Date: 2022/5/23

ID: 011

Report No. :TESA2204000084ES

WLAN 802.11ac(80M) 5.8G_Body_Bottom Surface_CH 155_Aux_0mm

Communication System: WLAN; Frequency: 5775 MHz; Duty Cycle: 1:1.015

Medium parameters used: $f = 5775 \text{ MHz}$; $\sigma = 5.258 \text{ S/m}$; $\epsilon_r = 35.203$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.3, 5.3, 5.3); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x151x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.181 W/kg

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

Reference Value = 2.153 V/m; Power Drift = -0.03 dB

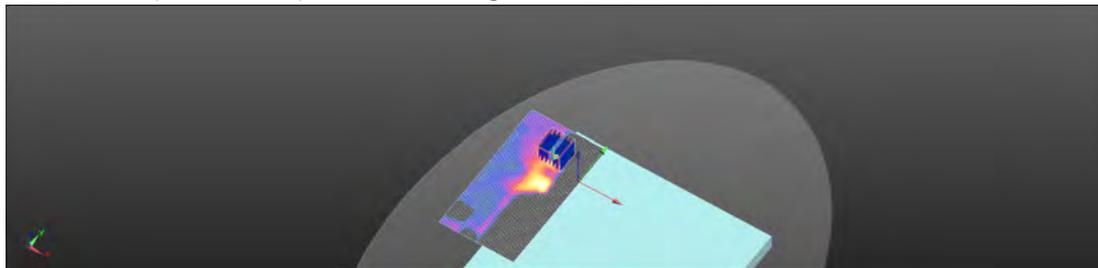
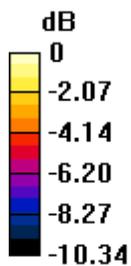
Peak SAR (extrapolated) = 0.381 W/kg

SAR(1 g) = 0.069 W/kg; SAR(10 g) = 0.027 W/kg

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

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

Maximum value of SAR (measured) = 0.132 W/kg



0 dB = 0.132 W/kg = -8.80 dBW/kg

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Date: 2022/5/20

ID: 012

Report No. : TESA2204000084ES

WLAN 802.11b_Body_Back Surface_CH 11_Main_0mm

Communication System: WLAN; Frequency: 2462 MHz; Duty Cycle: 1:1.011

Medium parameters used: $f = 2462 \text{ MHz}$; $\sigma = 1.843 \text{ S/m}$; $\epsilon_r = 39.059$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.32, 8.32, 8.32); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x111x1): Interpolated grid: $dx=12 \text{ mm}$, $dy=12 \text{ mm}$

Maximum value of SAR (interpolated) = 1.51 W/kg

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

Reference Value = 1.749 V/m; Power Drift = 0.05 dB

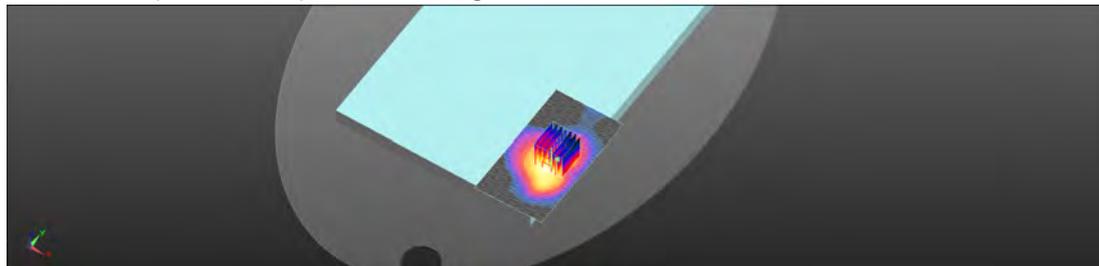
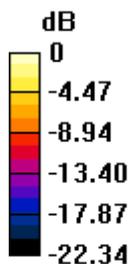
Peak SAR (extrapolated) = 1.73 W/kg

SAR(1 g) = 0.706 W/kg; SAR(10 g) = 0.357 W/kg

Smallest distance from peaks to all points 3 dB below = 10 mm

Ratio of SAR at M2 to SAR at M1 = 54%

Maximum value of SAR (measured) = 1.25 W/kg



0 dB = 1.25 W/kg = 0.97 dBW/kg

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Date: 2022/5/21

ID: 013

Report No. : TESA2204000084ES

WLAN 802.11ac(160M) 5.2G_Body_Back Surface_CH 50_Main_0mm

Communication System: WLAN; Frequency: 5250 MHz; Duty Cycle: 1:1.015

Medium parameters used: $f = 5250 \text{ MHz}$; $\sigma = 4.719 \text{ S/m}$; $\epsilon_r = 35.803$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 21.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.81, 5.81, 5.81); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x141x1): 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 = 1.839 V/m; Power Drift = 0.05 dB

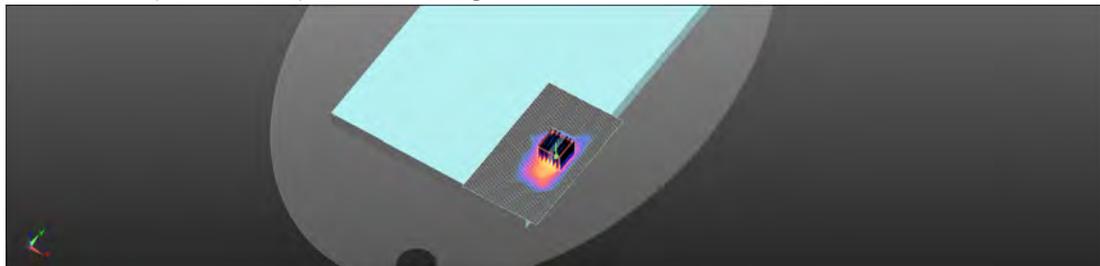
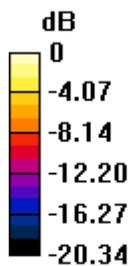
Peak SAR (extrapolated) = 4.17 W/kg

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

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

Ratio of SAR at M2 to SAR at M1 = 55.5%

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



0 dB = 2.10 W/kg = 3.22 dBW/kg

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Date: 2022/5/21

ID: 014

Report No. :TESA2204000084ES

WLAN 802.11ac(80M) 5.3G_Body_Back Surface_CH 58_Main_0mm

Communication System: WLAN; Frequency: 5290 MHz; Duty Cycle: 1:1.015

Medium parameters used: $f = 5290 \text{ MHz}$; $\sigma = 4.76 \text{ S/m}$; $\epsilon_r = 35.757$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 21.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.81, 5.81, 5.81); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x141x1): Interpolated grid: dx=10 mm, dy=10 mm

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

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

Reference Value = 1.863 V/m; Power Drift = 0.04 dB

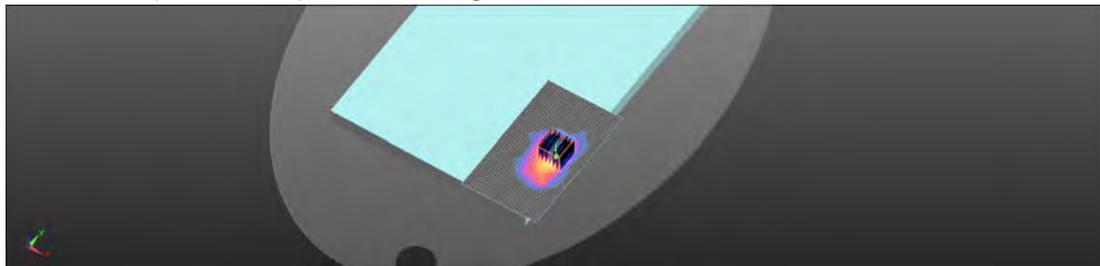
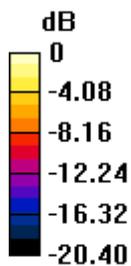
Peak SAR (extrapolated) = 3.96 W/kg

SAR(1 g) = 0.978 W/kg; SAR(10 g) = 0.286 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 55.4%

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



0 dB = 1.98 W/kg = 2.96 dBW/kg

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Date: 2022/5/22

ID: 015

Report No. :TESA2204000084ES

WLAN 802.11ac(160M) 5.6G_Body_Back Surface_CH 114_Main_0mm

Communication System: WLAN; Frequency: 5570 MHz;Duty Cycle: 1:1.015

Medium parameters used: $f = 5570 \text{ MHz}$; $\sigma = 5.048 \text{ S/m}$; $\epsilon_r = 35.437$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.16, 5.16, 5.16); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x141x1): Interpolated grid: dx=10 mm, dy=10 mm

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

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

Reference Value = 1.951 V/m; Power Drift = 0.01 dB

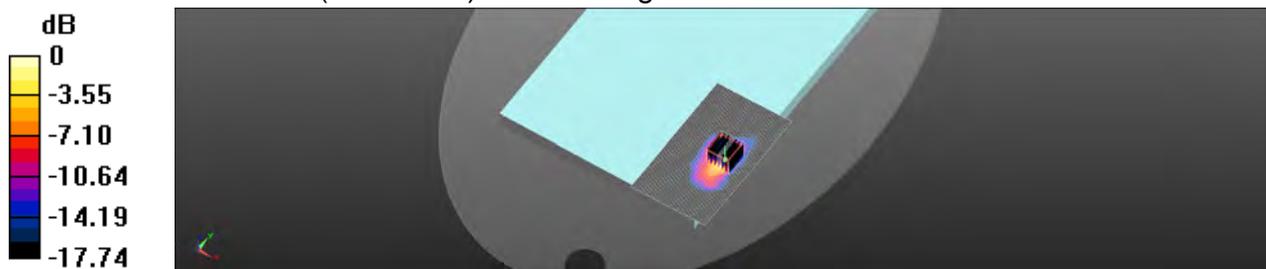
Peak SAR (extrapolated) = 3.01 W/kg

SAR(1 g) = 0.689 W/kg; SAR(10 g) = 0.207 W/kg

Smallest distance from peaks to all points 3 dB below = 5.7 mm

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

Maximum value of SAR (measured) = 1.36 W/kg



0 dB = 1.36 W/kg = 1.32 dBW/kg

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Date: 2022/5/23

ID: 016

Report No. : TESA2204000084ES

WLAN 802.11ac(80M) 5.8G_Body_Back Surface_CH 155_Main_0mm

Communication System: WLAN; Frequency: 5775 MHz; Duty Cycle: 1:1.015

Medium parameters used: $f = 5775 \text{ MHz}$; $\sigma = 5.258 \text{ S/m}$; $\epsilon_r = 35.203$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.3, 5.3, 5.3); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x141x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.36 W/kg

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

Reference Value = 1.883 V/m; Power Drift = 0.04 dB

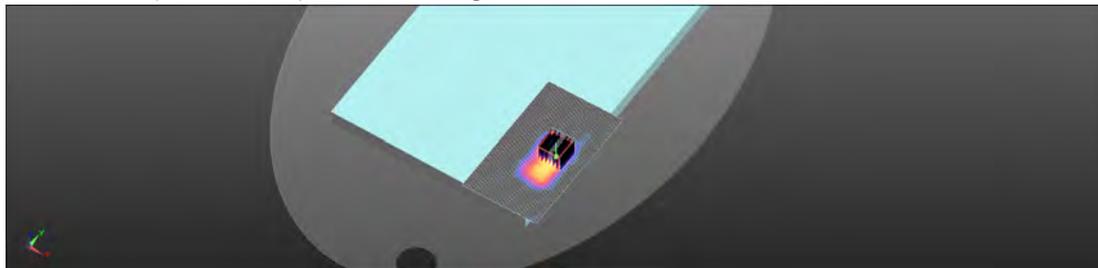
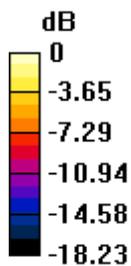
Peak SAR (extrapolated) = 3.51 W/kg

SAR(1 g) = 0.758 W/kg; SAR(10 g) = 0.226 W/kg

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

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

Maximum value of SAR (measured) = 1.55 W/kg



0 dB = 1.55 W/kg = 1.90 dBW/kg

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Date: 2022/5/20

ID: 017

Report No. :TESA2204000084ES

WLAN 802.11b_Body_Back Surface_CH 1_Aux_0mm

Communication System: WLAN; Frequency: 2412 MHz;Duty Cycle: 1:1.011

Medium parameters used: $f = 2412 \text{ MHz}$; $\sigma = 1.799 \text{ S/m}$; $\epsilon_r = 39.142$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.32, 8.32, 8.32); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x111x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.714 W/kg

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

Reference Value = 1.587 V/m; Power Drift = -0.03 dB

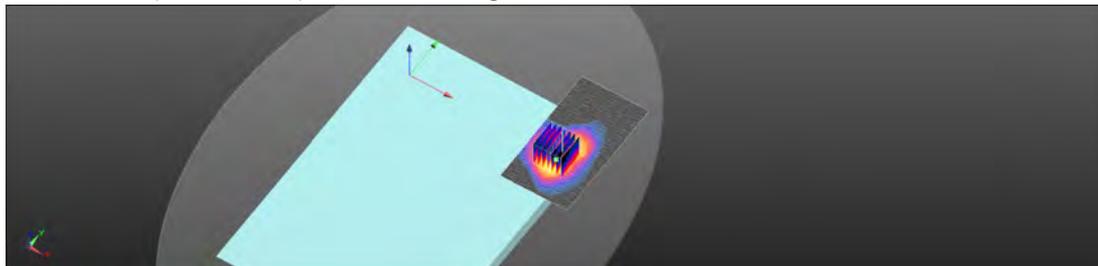
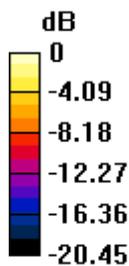
Peak SAR (extrapolated) = 0.853 W/kg

SAR(1 g) = 0.410 W/kg; SAR(10 g) = 0.188 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 51.9%

Maximum value of SAR (measured) = 0.622 W/kg



0 dB = 0.622 W/kg = -2.07 dBW/kg

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Date: 2022/5/20

ID: 018

Report No. :TESA2204000084ES

Bluetooth(GFSK)_Body_Back Surface_CH 0_Aux_0mm

Communication System: Bluetooth; Frequency: 2402 MHz;Duty Cycle: 1:1.297

Medium parameters used: $f = 2402$ MHz; $\sigma = 1.79$ S/m; $\epsilon_r = 39.159$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.32, 8.32, 8.32); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x111x1): Interpolated grid: dx=12 mm, dy=12 mm

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

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

Reference Value = 1.349 V/m; Power Drift = 0.05 dB

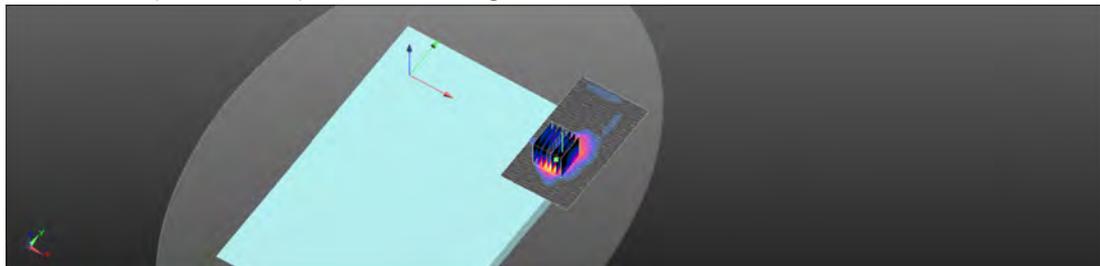
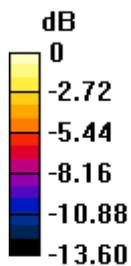
Peak SAR (extrapolated) = 0.193 W/kg

SAR(1 g) = 0.083 W/kg; SAR(10 g) = 0.039 W/kg

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

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

Maximum value of SAR (measured) = 0.125 W/kg



0 dB = 0.125 W/kg = -9.03 dBW/kg

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Date: 2022/5/21

ID: 019

Report No. :TESA2204000084ES

WLAN 802.11ac(160M) 5.2G_Body_Back Surface_CH 50_Aux_0mm

Communication System: WLAN; Frequency: 5250 MHz; Duty Cycle: 1:1.015

Medium parameters used: $f = 5250 \text{ MHz}$; $\sigma = 4.719 \text{ S/m}$; $\epsilon_r = 35.803$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 21.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.81, 5.81, 5.81); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x141x1): Interpolated grid: dx=10 mm, dy=10 mm

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

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

Reference Value = 1.617 V/m; Power Drift = -0.01 dB

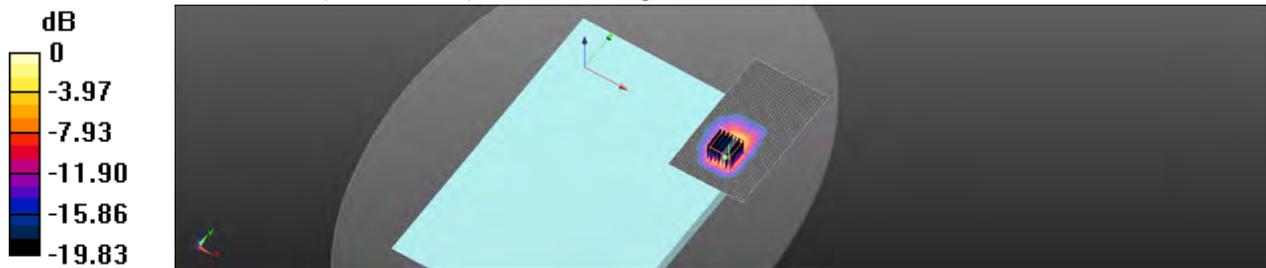
Peak SAR (extrapolated) = 3.67 W/kg

SAR(1 g) = 0.884 W/kg; SAR(10 g) = 0.266 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 55.3%

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



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

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Date: 2022/5/21

ID: 020

Report No. :TESA2204000084ES

WLAN 802.11ac(80M) 5.3G_Body_Back Surface_CH 58_Aux_0mm

Communication System: WLAN; Frequency: 5290 MHz;Duty Cycle: 1:1.015

Medium parameters used: $f = 5290 \text{ MHz}$; $\sigma = 4.76 \text{ S/m}$; $\epsilon_r = 35.757$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 21.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.81, 5.81, 5.81); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x141x1): Interpolated grid: dx=10 mm, dy=10 mm

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

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

Reference Value = 1.776 V/m; Power Drift = -0.02 dB

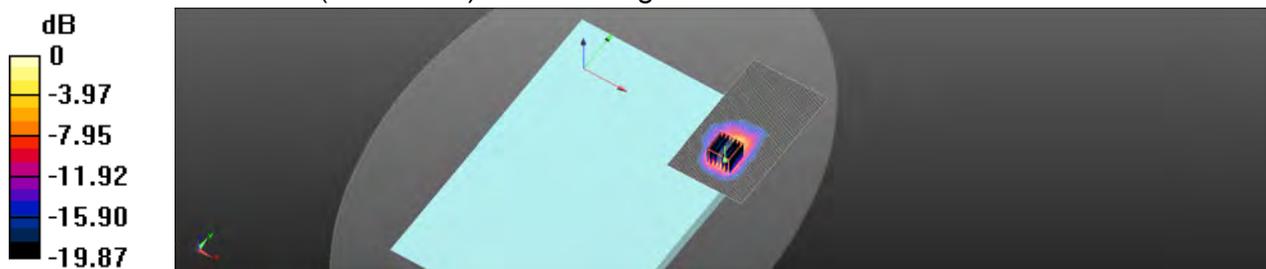
Peak SAR (extrapolated) = 3.93 W/kg

SAR(1 g) = 0.916 W/kg; SAR(10 g) = 0.271 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 54.1%

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



0 dB = 1.84 W/kg = 2.65 dBW/kg

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Date: 2022/5/22

ID: 021

Report No. :TESA2204000084ES

WLAN 802.11ac(160M) 5.6G_Body_Back Surface_CH 114_Aux_0mm

Communication System: WLAN; Frequency: 5570 MHz; Duty Cycle: 1:1.015

Medium parameters used: $f = 5570 \text{ MHz}$; $\sigma = 5.048 \text{ S/m}$; $\epsilon_r = 35.437$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.16, 5.16, 5.16); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x141x1): Interpolated grid: dx=10 mm, dy=10 mm

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

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

Reference Value = 1.674 V/m; Power Drift = 0.05 dB

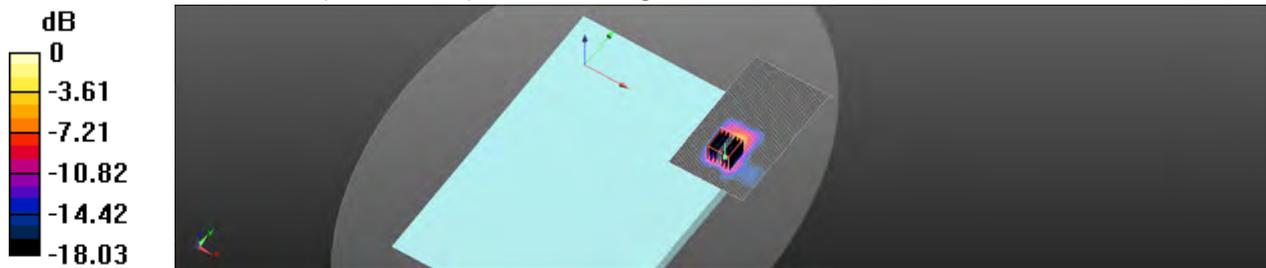
Peak SAR (extrapolated) = 3.29 W/kg

SAR(1 g) = 0.646 W/kg; SAR(10 g) = 0.181 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 54%

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



0 dB = 1.34 W/kg = 1.27 dBW/kg

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Date: 2022/5/23

ID: 022

Report No. :TESA2204000084ES

WLAN 802.11ac(80M) 5.8G_Body_Back Surface_CH 155_Aux_0mm

Communication System: WLAN; Frequency: 5775 MHz; Duty Cycle: 1:1.015

Medium parameters used: $f = 5775 \text{ MHz}$; $\sigma = 5.258 \text{ S/m}$; $\epsilon_r = 35.203$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.3, 5.3, 5.3); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x141x1): Interpolated grid: dx=10 mm, dy=10 mm

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

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

Reference Value = 1.834 V/m; Power Drift = 0.04 dB

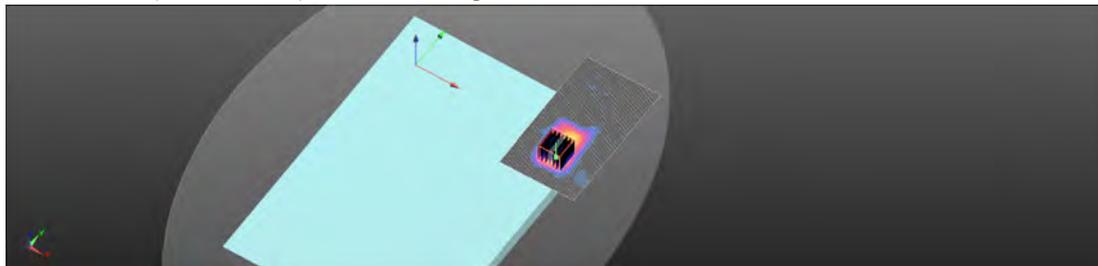
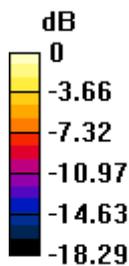
Peak SAR (extrapolated) = 3.76 W/kg

SAR(1 g) = 0.779 W/kg; SAR(10 g) = 0.226 W/kg

Smallest distance from peaks to all points 3 dB below = 5.1 mm

Ratio of SAR at M2 to SAR at M1 = 51%

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



0 dB = 1.54 W/kg = 1.88 dBW/kg

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Date: 2022/5/20

ID: 023

Report No. :TESA2204000084ES

WLAN 802.11b_Body_Bottom Surface_CH 1_Main_0mm

Communication System: WLAN; Frequency: 2412 MHz; Duty Cycle: 1:1.011

Medium parameters used: $f = 2412 \text{ MHz}$; $\sigma = 1.799 \text{ S/m}$; $\epsilon_r = 39.142$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.32, 8.32, 8.32); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 0.382 W/kg

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

Reference Value = 2.140 V/m; Power Drift = 0.02 dB

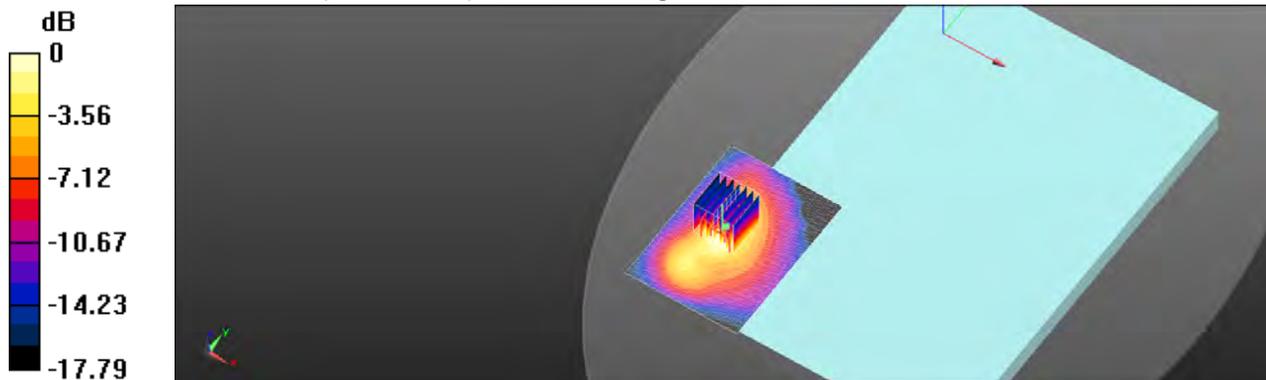
Peak SAR (extrapolated) = 0.532 W/kg

SAR(1 g) = 0.267 W/kg; SAR(10 g) = 0.137 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 50.3%

Maximum value of SAR (measured) = 0.397 W/kg



0 dB = 0.397 W/kg = -4.02 dBW/kg

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Date: 2022/5/21

ID: 024

Report No. : TESA2204000084ES

WLAN 802.11ac(160M) 5.2G_Body_Bottom Surface_CH 50_Main_0mm

Communication System: WLAN; Frequency: 5250 MHz; Duty Cycle: 1:1.015

Medium parameters used: $f = 5250$ MHz; $\sigma = 4.719$ S/m; $\epsilon_r = 35.803$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 21.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.81, 5.81, 5.81); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 0.224 W/kg

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

Reference Value = 2.280 V/m; Power Drift = -0.05 dB

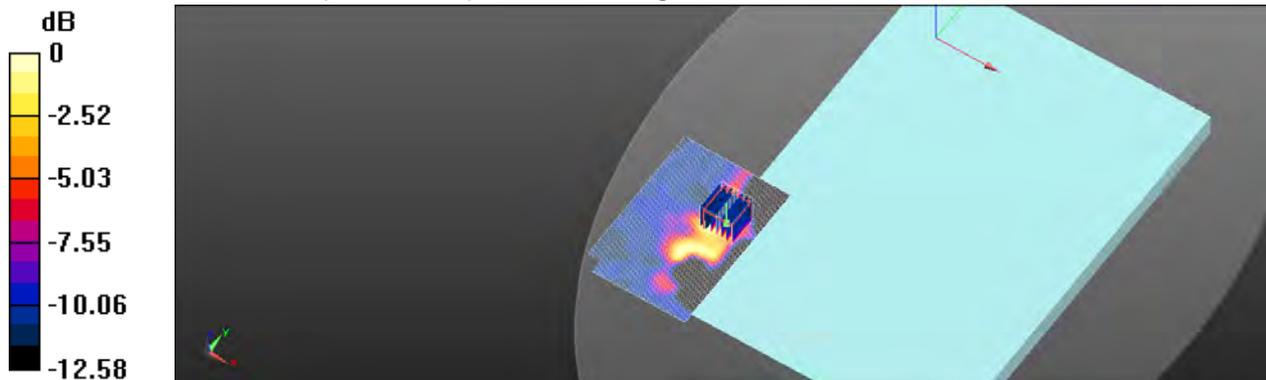
Peak SAR (extrapolated) = 0.427 W/kg

SAR(1 g) = 0.115 W/kg; SAR(10 g) = 0.037 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 57.4%

Maximum value of SAR (measured) = 0.224 W/kg



0 dB = 0.224 W/kg = -6.50 dBW/kg

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SGS Taiwan Ltd.

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

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

Date: 2022/5/21

ID: 025

Report No. : TESA2204000084ES

WLAN 802.11ac(80M) 5.3G_Body_Bottom Surface_CH 58_Main_0mm

Communication System: WLAN; Frequency: 5290 MHz; Duty Cycle: 1:1.015

Medium parameters used: $f = 5290 \text{ MHz}$; $\sigma = 4.76 \text{ S/m}$; $\epsilon_r = 35.757$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 21.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.81, 5.81, 5.81); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 0.205 W/kg

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

Reference Value = 2.324 V/m; Power Drift = -0.02 dB

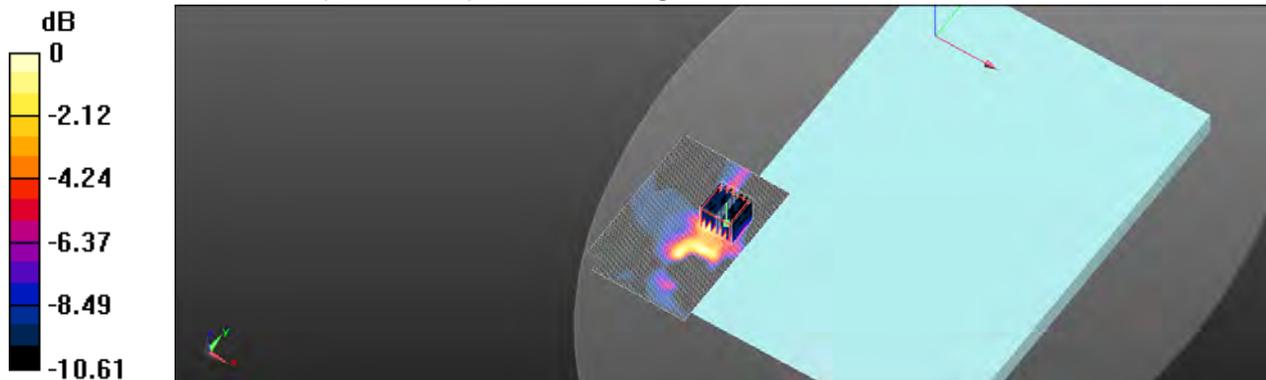
Peak SAR (extrapolated) = 0.472 W/kg

SAR(1 g) = 0.101 W/kg; SAR(10 g) = 0.045 W/kg

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

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

Maximum value of SAR (measured) = 0.198 W/kg



0 dB = 0.198 W/kg = -7.03 dBW/kg

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Date: 2022/5/22

ID: 026

Report No. :TESA2204000084ES

WLAN 802.11ac(160M) 5.6G_Body_Bottom Surface_CH 114_Main_0mm

Communication System: WLAN; Frequency: 5570 MHz; Duty Cycle: 1:1.015

Medium parameters used: $f = 5570$ MHz; $\sigma = 5.048$ S/m; $\epsilon_r = 35.437$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.16, 5.16, 5.16); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 0.295 W/kg

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

Reference Value = 2.242 V/m; Power Drift = 0.01 dB

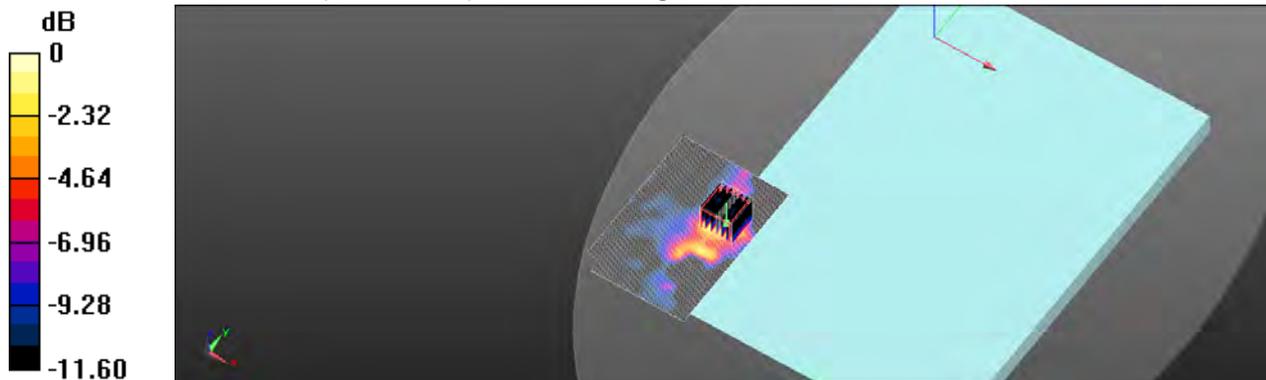
Peak SAR (extrapolated) = 0.548 W/kg

SAR(1 g) = 0.142 W/kg; SAR(10 g) = 0.057 W/kg

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

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

Maximum value of SAR (measured) = 0.286 W/kg



0 dB = 0.286 W/kg = -5.44 dBW/kg

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Date: 2022/5/23

ID: 027

Report No. :TESA2204000084ES

WLAN 802.11ac(80M) 5.8G_Body_Bottom Surface_CH 155_Main_0mm

Communication System: WLAN; Frequency: 5775 MHz; Duty Cycle: 1:1.015

Medium parameters used: $f = 5775 \text{ MHz}$; $\sigma = 5.258 \text{ S/m}$; $\epsilon_r = 35.203$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.3, 5.3, 5.3); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

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

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

Reference Value = 2.247 V/m; Power Drift = -0.01 dB

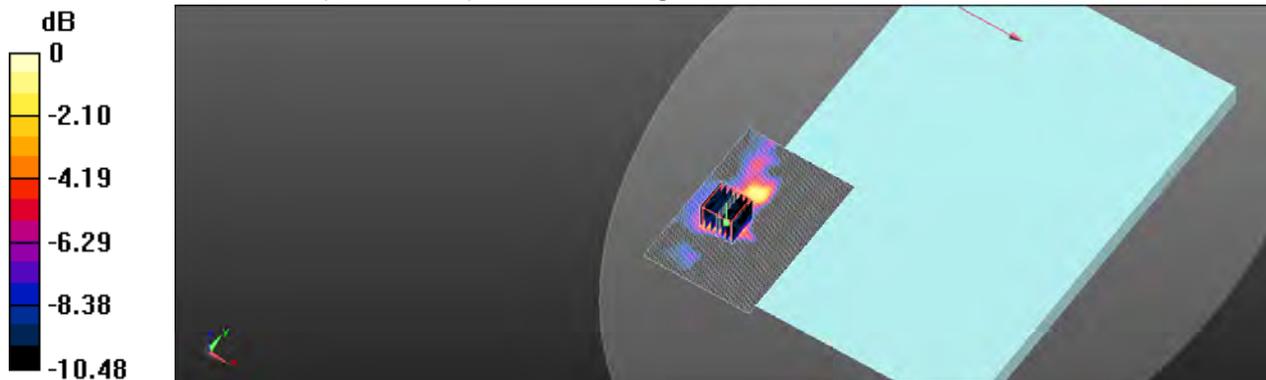
Peak SAR (extrapolated) = 0.416 W/kg

SAR(1 g) = 0.118 W/kg; SAR(10 g) = 0.049 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 55.5%

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



0 dB = 0.232 W/kg = -6.35 dBW/kg

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Date: 2022/5/20

ID: 028

Report No. :TESA2204000084ES

WLAN 802.11b_Body_Bottom Surface_CH 1_Aux_0mm

Communication System: WLAN; Frequency: 2412 MHz; Duty Cycle: 1:1.011

Medium parameters used: $f = 2412 \text{ MHz}$; $\sigma = 1.799 \text{ S/m}$; $\epsilon_r = 39.142$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.32, 8.32, 8.32); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 0.276 W/kg

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

Reference Value = 2.041 V/m; Power Drift = 0.04 dB

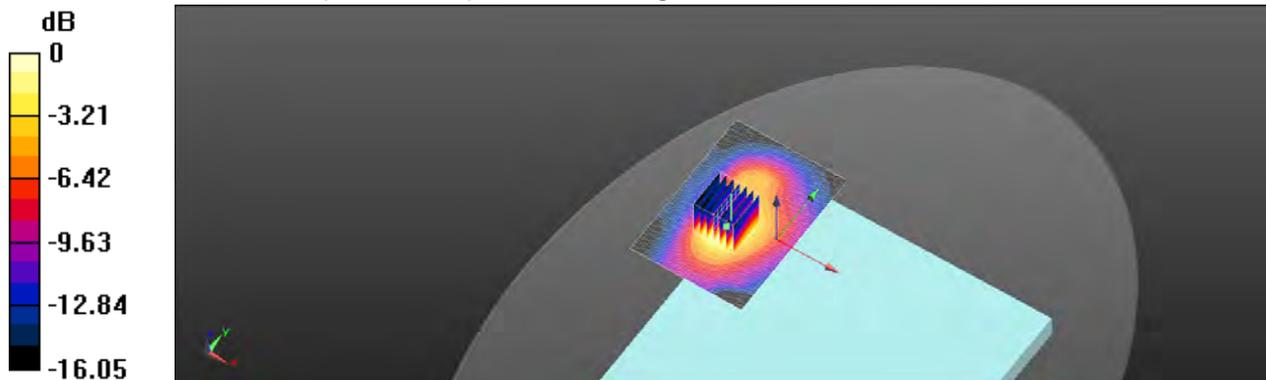
Peak SAR (extrapolated) = 0.372 W/kg

SAR(1 g) = 0.186 W/kg; SAR(10 g) = 0.096 W/kg

Smallest distance from peaks to all points 3 dB below = 9.5 mm

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

Maximum value of SAR (measured) = 0.272 W/kg



0 dB = 0.272 W/kg = -5.66 dBW/kg

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Date: 2022/5/20

ID: 029

Report No. :TESA2204000084ES

Bluetooth(GFSK)_Body_Bottom Surface_CH 0_Aux_0mm

Communication System: Bluetooth; Frequency: 2402 MHz;Duty Cycle: 1:1.297

Medium parameters used: $f = 2402$ MHz; $\sigma = 1.79$ S/m; $\epsilon_r = 39.159$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.32, 8.32, 8.32); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 0.0385 W/kg

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

Reference Value = 1.900 V/m; Power Drift = 0.02 dB

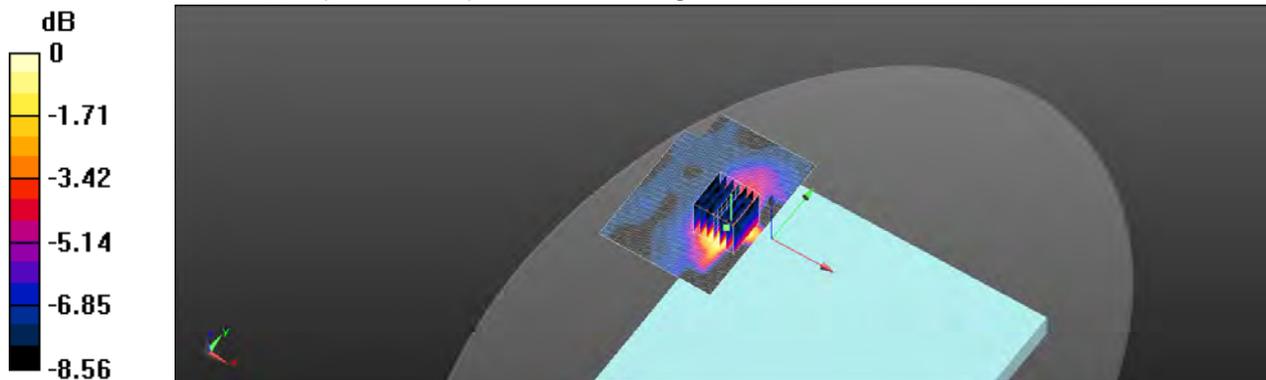
Peak SAR (extrapolated) = 0.107 W/kg

SAR(1 g) = 0.028 W/kg; SAR(10 g) = 0.016 W/kg

Smallest distance from peaks to all points 3 dB below = 9.5 mm

Ratio of SAR at M2 to SAR at M1 = 56.2%

Maximum value of SAR (measured) = 0.0396 W/kg



0 dB = 0.0396 W/kg = -14.02 dBW/kg

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

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

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Member of SGS Group

Date: 2022/5/21

ID: 030

Report No. :TESA2204000084ES

WLAN 802.11ac(160M) 5.2G_Body_Bottom Surface_CH 50_Aux_0mm

Communication System: WLAN; Frequency: 5250 MHz;Duty Cycle: 1:1.015

Medium parameters used: $f = 5250 \text{ MHz}$; $\sigma = 4.719 \text{ S/m}$; $\epsilon_r = 35.803$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 21.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.81, 5.81, 5.81); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x131x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.121 W/kg

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

Reference Value = 2.338 V/m; Power Drift = -0.05 dB

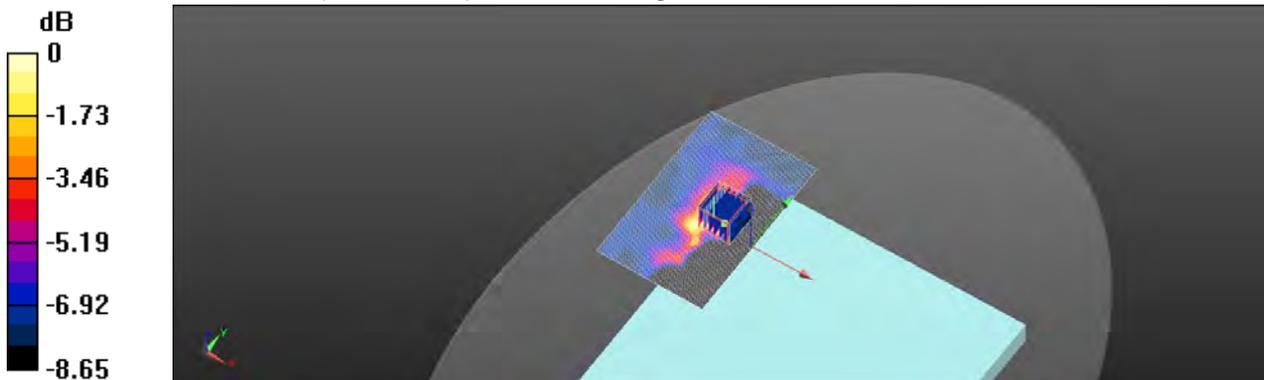
Peak SAR (extrapolated) = 0.225 W/kg

SAR(1 g) = 0.066 W/kg; SAR(10 g) = 0.028 W/kg

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

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

Maximum value of SAR (measured) = 0.118 W/kg



0 dB = 0.118 W/kg = -9.28 dBW/kg

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Date: 2022/5/21

ID: 031

Report No. :TESA2204000084ES

WLAN 802.11ac(80M) 5.3G_Body_Bottom Surface_CH 58_Aux_0mm

Communication System: WLAN; Frequency: 5290 MHz;Duty Cycle: 1:1.015

Medium parameters used: $f = 5290$ MHz; $\sigma = 4.76$ S/m; $\epsilon_r = 35.757$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 21.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.81, 5.81, 5.81); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x131x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.119 W/kg

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

Reference Value = 2.398 V/m; Power Drift = 0.03 dB

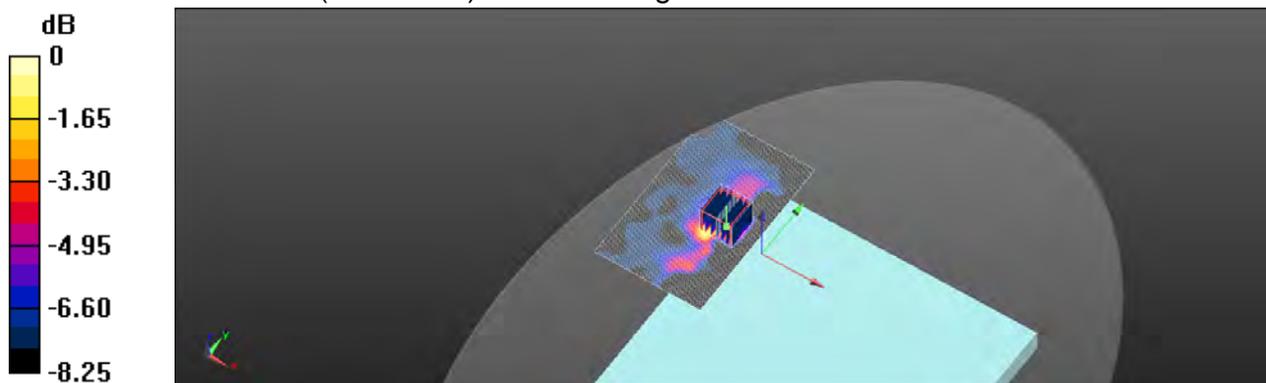
Peak SAR (extrapolated) = 0.204 W/kg

SAR(1 g) = 0.071 W/kg; SAR(10 g) = 0.037 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 63.8%

Maximum value of SAR (measured) = 0.130 W/kg



0 dB = 0.130 W/kg = -8.86 dBW/kg

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Date: 2022/5/22

ID: 032

Report No. :TESA2204000084ES

WLAN 802.11ac(160M) 5.6G_Body_Bottom Surface_CH 114_Aux_0mm

Communication System: WLAN; Frequency: 5570 MHz;Duty Cycle: 1:1.015

Medium parameters used: $f = 5570$ MHz; $\sigma = 5.048$ S/m; $\epsilon_r = 35.437$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.3, 5.3, 5.3); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x131x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.192 W/kg

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

Reference Value = 4.179 V/m; Power Drift = -0.02 dB

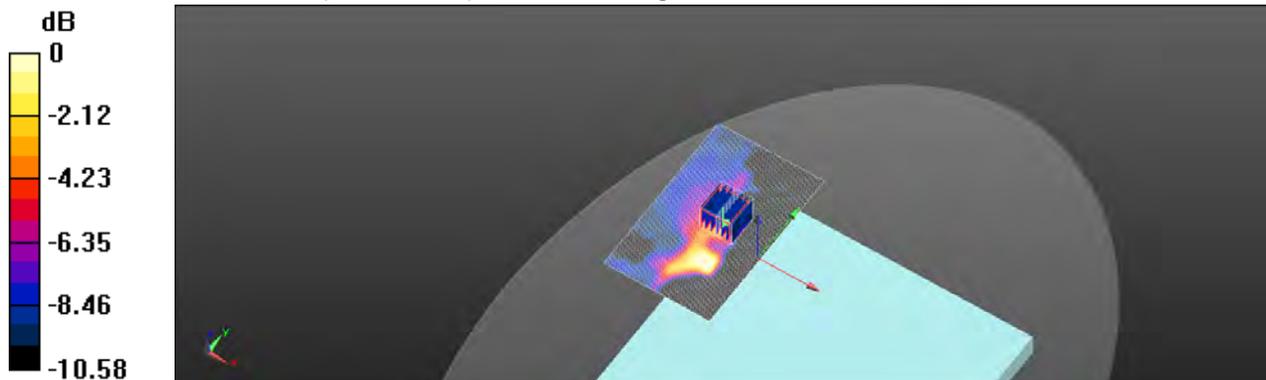
Peak SAR (extrapolated) = 0.374 W/kg

SAR(1 g) = 0.070 W/kg; SAR(10 g) = 0.026 W/kg

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

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

Maximum value of SAR (measured) = 0.137 W/kg



0 dB = 0.137 W/kg = -8.63 dBW/kg

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Date: 2022/5/23

ID: 033

Report No. :TESA2204000084ES

WLAN 802.11ac(80M) 5.8G_Body_Bottom Surface_CH 155_Aux_0mm

Communication System: WLAN; Frequency: 5775 MHz; Duty Cycle: 1:1.015

Medium parameters used: $f = 5775 \text{ MHz}$; $\sigma = 5.258 \text{ S/m}$; $\epsilon_r = 35.203$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.3, 5.3, 5.3); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x151x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.211 W/kg

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

Reference Value = 2.499 V/m; Power Drift = 0.01 dB

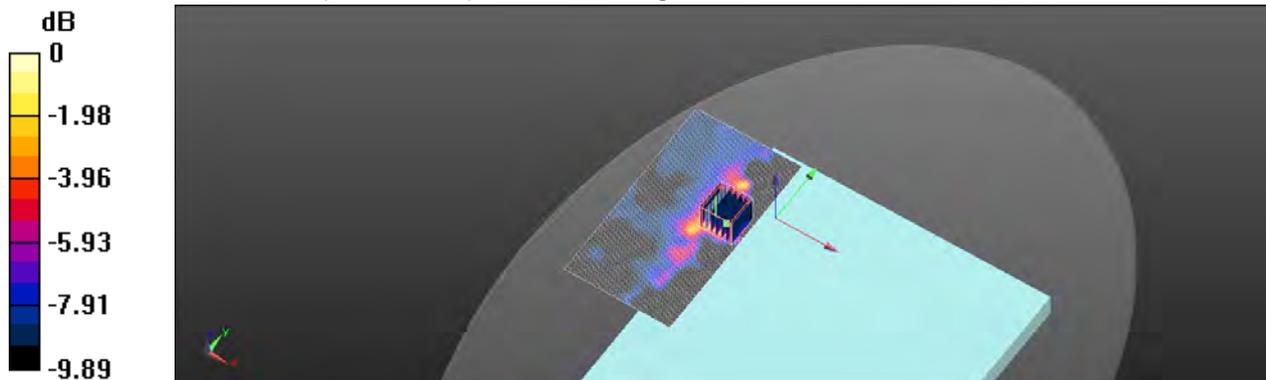
Peak SAR (extrapolated) = 0.393 W/kg

SAR(1 g) = 0.119 W/kg; SAR(10 g) = 0.052 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 55.4%

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



0 dB = 0.221 W/kg = -6.56 dBW/kg

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Date: 2022/5/20

ID: 034

Report No. :TESA2204000084ES

WLAN 802.11b_Body_Back Surface_CH 1_Main_0mm

Communication System: WLAN; Frequency: 2412 MHz; Duty Cycle: 1:1.011

Medium parameters used: $f = 2412 \text{ MHz}$; $\sigma = 1.799 \text{ S/m}$; $\epsilon_r = 39.142$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.32, 8.32, 8.32); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x111x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 1.51 W/kg

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

Reference Value = 1.749 V/m; Power Drift = -0.05 dB

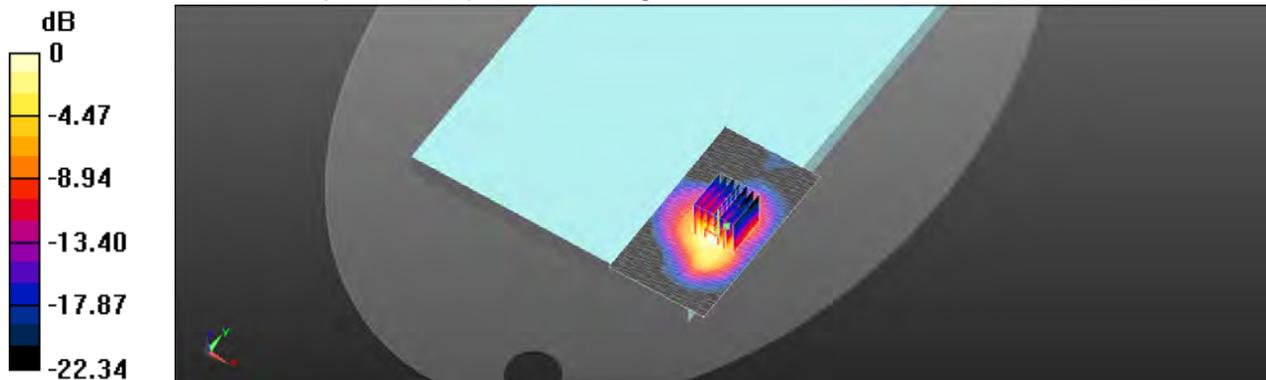
Peak SAR (extrapolated) = 1.73 W/kg

SAR(1 g) = 0.823 W/kg; SAR(10 g) = 0.399 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 54%

Maximum value of SAR (measured) = 1.25 W/kg



0 dB = 1.25 W/kg = 0.97 dBW/kg

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Date: 2022/5/21

ID: 035

Report No. :TESA2204000084ES

WLAN 802.11ac(160M) 5.2G_Body_Back Surface_CH 50_Main_0mm

Communication System: WLAN; Frequency: 5250 MHz; Duty Cycle: 1:1.015

Medium parameters used: $f = 5250 \text{ MHz}$; $\sigma = 4.719 \text{ S/m}$; $\epsilon_r = 35.803$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 21.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.81, 5.81, 5.81); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x141x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.60 W/kg

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

Reference Value = 1.217 V/m; Power Drift = 0.03 dB

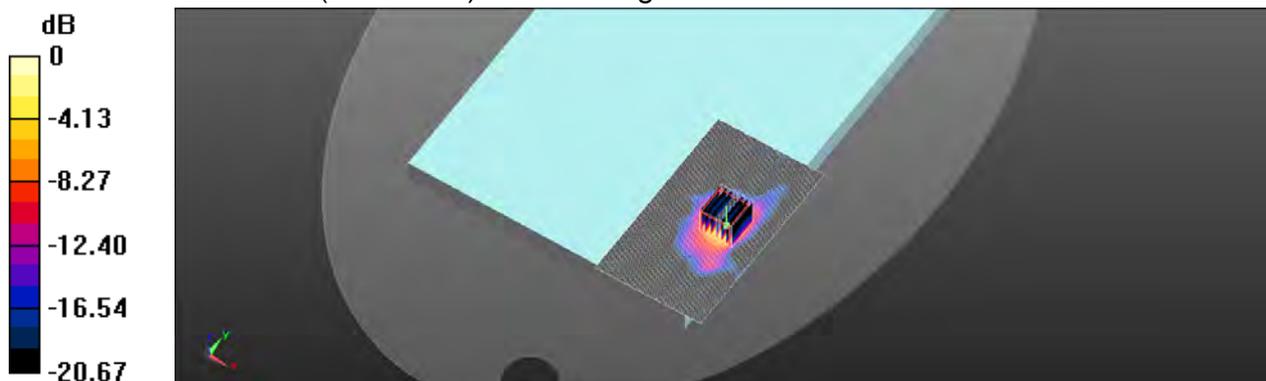
Peak SAR (extrapolated) = 3.59 W/kg

SAR(1 g) = 0.843 W/kg; SAR(10 g) = 0.244 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 55.8%

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



0 dB = 1.75 W/kg = 2.43 dBW/kg

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Date: 2022/5/21

ID: 036

Report No. :TESA2204000084ES

WLAN 802.11ac(80M) 5.3G_Body_Back Surface_CH 58_Main_0mm

Communication System: WLAN; Frequency: 5290 MHz; Duty Cycle: 1:1.015

Medium parameters used: $f = 5290 \text{ MHz}$; $\sigma = 4.76 \text{ S/m}$; $\epsilon_r = 35.757$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 21.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.81, 5.81, 5.81); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x141x1): Interpolated grid: dx=10 mm, dy=10 mm

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

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

Reference Value = 1.485 V/m; Power Drift = 0.01 dB

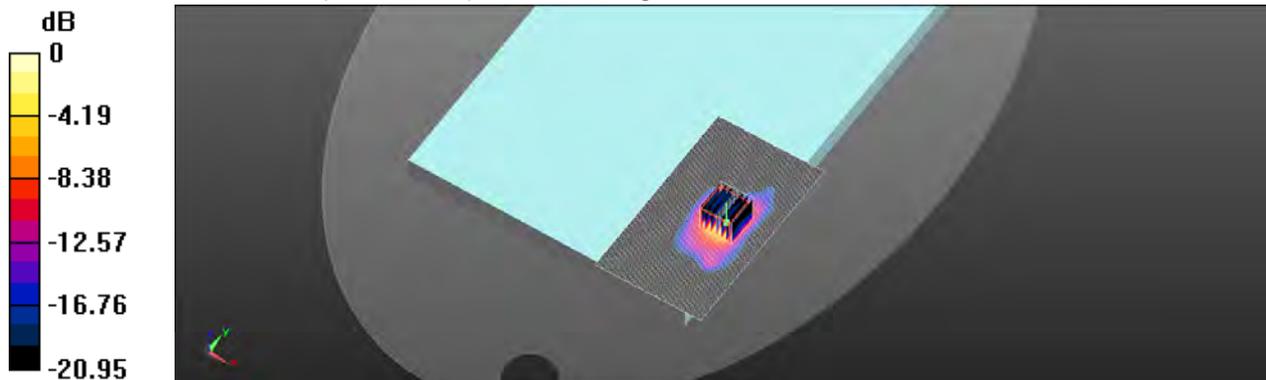
Peak SAR (extrapolated) = 3.65 W/kg

SAR(1 g) = 0.832 W/kg; SAR(10 g) = 0.237 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 55.5%

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



0 dB = 1.72 W/kg = 2.36 dBW/kg

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Date: 2022/5/22

ID: 037

Report No. :TESA2204000084ES

WLAN 802.11ac(160M) 5.6G_Body_Back Surface_CH 114_Main_0mm

Communication System: WLAN; Frequency: 5570 MHz; Duty Cycle: 1:1.015

Medium parameters used: $f = 5570$ MHz; $\sigma = 5.048$ S/m; $\epsilon_r = 35.437$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.16, 5.16, 5.16); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x141x1): Interpolated grid: dx=10 mm, dy=10 mm

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

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

Reference Value = 1.588 V/m; Power Drift = 0.02 dB

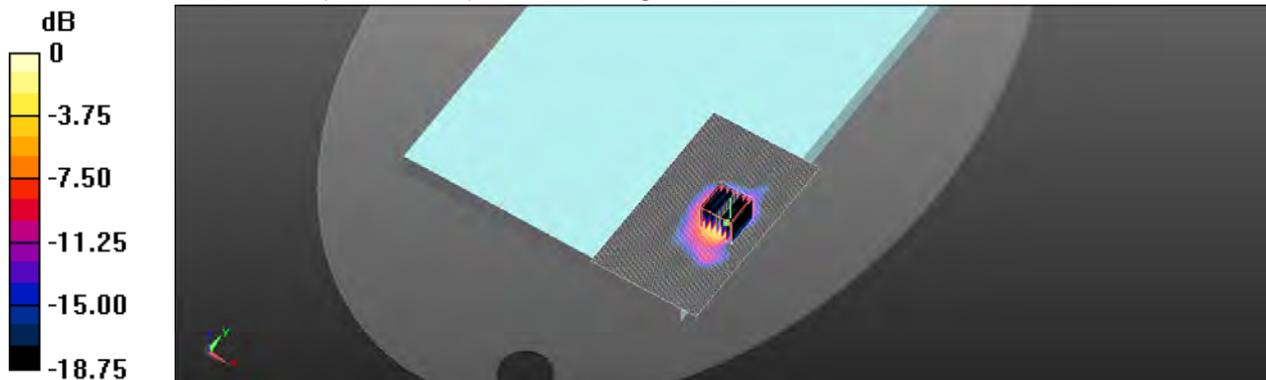
Peak SAR (extrapolated) = 3.40 W/kg

SAR(1 g) = 0.789 W/kg; SAR(10 g) = 0.236 W/kg

Smallest distance from peaks to all points 3 dB below = 6.1 mm

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

Maximum value of SAR (measured) = 1.50 W/kg



0 dB = 1.50 W/kg = 1.75 dBW/kg

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Date: 2022/5/23

ID: 038

Report No. :TESA2204000084ES

WLAN 802.11ac(80M) 5.8G_Body_Back Surface_CH 155_Main_0mm

Communication System: WLAN; Frequency: 5775 MHz;Duty Cycle: 1:1.015

Medium parameters used: $f = 5775 \text{ MHz}$; $\sigma = 5.258 \text{ S/m}$; $\epsilon_r = 35.203$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.3, 5.3, 5.3); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x141x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.82 W/kg

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

Reference Value = 8.126 V/m; Power Drift = 0.04 dB

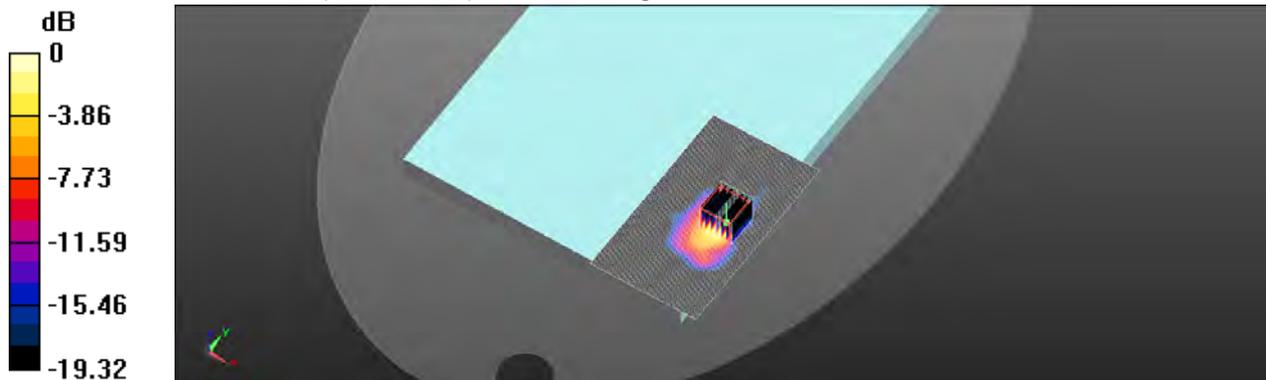
Peak SAR (extrapolated) = 4.03 W/kg

SAR(1 g) = 0.884 W/kg; SAR(10 g) = 0.265 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 51.2%

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



0 dB = 1.81 W/kg = 2.57 dBW/kg

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Date: 2022/5/20

ID: 039

Report No. :TESA2204000084ES

WLAN 802.11b_Body_Back Surface_CH 1_Aux_0mm

Communication System: WLAN; Frequency: 2412 MHz; Duty Cycle: 1:1.011

Medium parameters used: $f = 2412 \text{ MHz}$; $\sigma = 1.799 \text{ S/m}$; $\epsilon_r = 39.142$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.32, 8.32, 8.32); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x111x1): Interpolated grid: dx=12 mm, dy=12 mm

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

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

Reference Value = 1.233 V/m; Power Drift = 0.05 dB

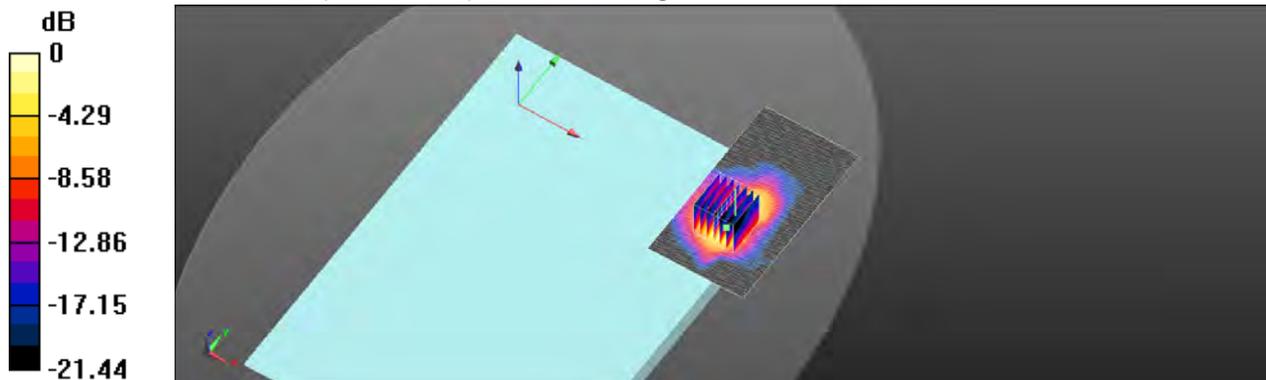
Peak SAR (extrapolated) = 0.972 W/kg

SAR(1 g) = 0.454 W/kg; SAR(10 g) = 0.216 W/kg

Smallest distance from peaks to all points 3 dB below = 8.1 mm

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

Maximum value of SAR (measured) = 0.691 W/kg



0 dB = 0.691 W/kg = -1.60 dBW/kg

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Date: 2022/5/20

ID: 040

Report No. :TESA2204000084ES

Bluetooth(GFSK)_Body_Back Surface_CH 78_Aux_0mm

Communication System: Bluetooth; Frequency: 2480 MHz;Duty Cycle: 1:1.297

Medium parameters used: $f = 2480 \text{ MHz}$; $\sigma = 1.859 \text{ S/m}$; $\epsilon_r = 39.036$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.32, 8.32, 8.32); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x111x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.101 W/kg

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

Reference Value = 1.070 V/m; Power Drift = -0.01 dB

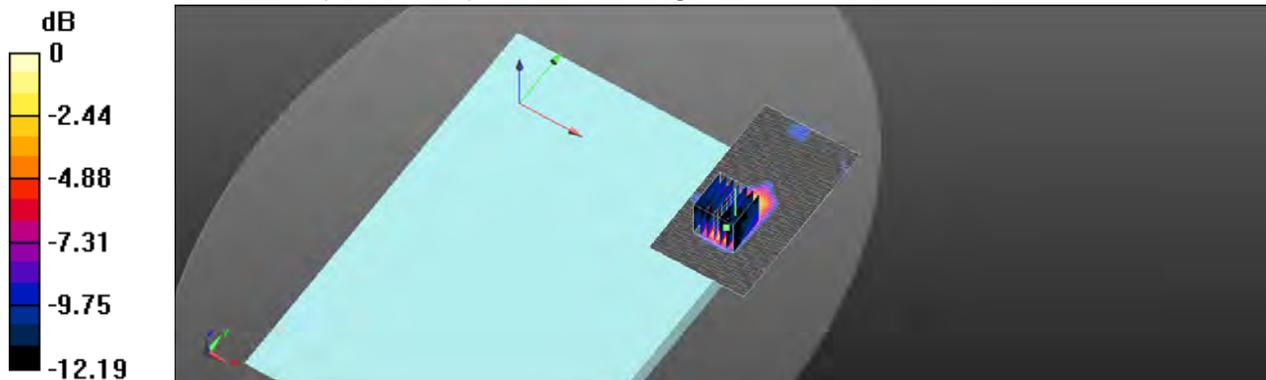
Peak SAR (extrapolated) = 0.138 W/kg

SAR(1 g) = 0.055 W/kg; SAR(10 g) = 0.027 W/kg

Smallest distance from peaks to all points 3 dB below = 8.3 mm

Ratio of SAR at M2 to SAR at M1 = 57%

Maximum value of SAR (measured) = 0.0829 W/kg



0 dB = 0.0829 W/kg = -10.81 dBW/kg

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Date: 2022/5/21

ID: 041

Report No. :TESA2204000084ES

WLAN 802.11ac(160M) 5.2G_Body_Back Surface_CH 50_Aux_0mm

Communication System: WLAN; Frequency: 5250 MHz; Duty Cycle: 1:1.015

Medium parameters used: $f = 5250 \text{ MHz}$; $\sigma = 4.719 \text{ S/m}$; $\epsilon_r = 35.803$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 21.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.81, 5.81, 5.81); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x141x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 2.03 W/kg

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

Reference Value = 1.270 V/m; Power Drift = -0.02 dB

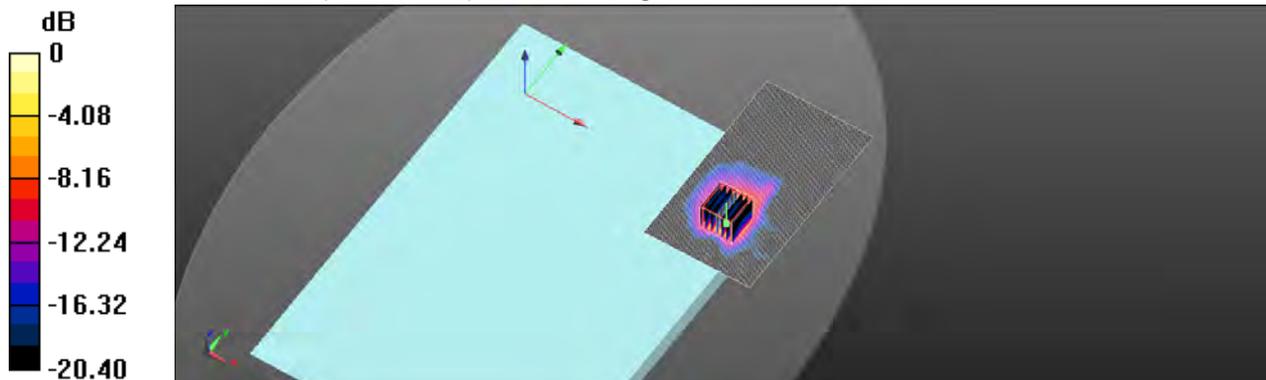
Peak SAR (extrapolated) = 3.78 W/kg

SAR(1 g) = 0.915 W/kg; SAR(10 g) = 0.271 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 55.8%

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



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

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Date: 2022/5/21

ID: 042

Report No. : TESA2204000084ES

WLAN 802.11ac(80M) 5.3G_Body_Back Surface_CH 58_Aux_0mm

Communication System: WLAN; Frequency: 5290 MHz; Duty Cycle: 1:1.015

Medium parameters used: $f = 5290$ MHz; $\sigma = 4.76$ S/m; $\epsilon_r = 35.757$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 21.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.81, 5.81, 5.81); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x141x1): Interpolated grid: dx=10 mm, dy=10 mm

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

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

Reference Value = 1.427 V/m; Power Drift = -0.03 dB

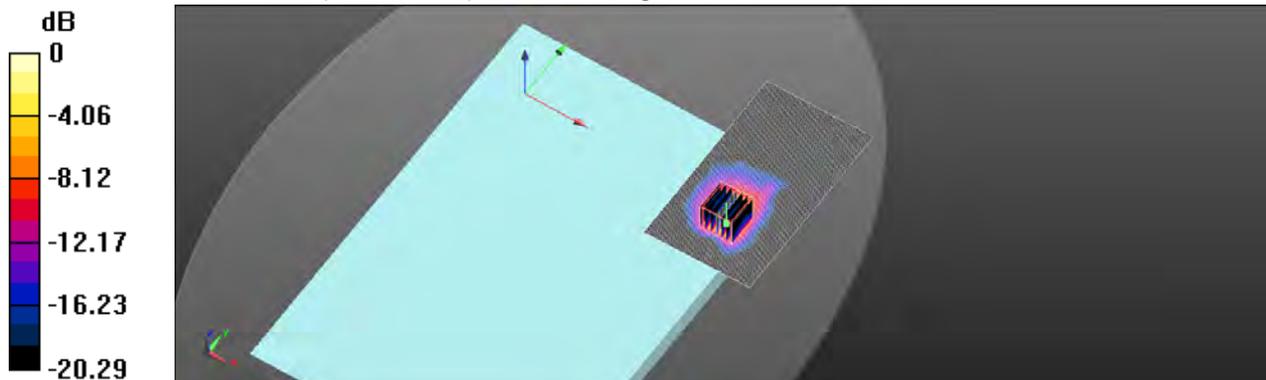
Peak SAR (extrapolated) = 4.03 W/kg

SAR(1 g) = 0.956 W/kg; SAR(10 g) = 0.281 W/kg

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

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

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



0 dB = 1.98 W/kg = 2.97 dBW/kg

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Date: 2022/5/22

ID: 043

Report No. : TESA2204000084ES

WLAN 802.11ac(160M) 5.6G_Body_Back Surface_CH 114_Aux_0mm

Communication System: WLAN; Frequency: 5570 MHz; Duty Cycle: 1:1.015

Medium parameters used: $f = 5570 \text{ MHz}$; $\sigma = 5.048 \text{ S/m}$; $\epsilon_r = 35.437$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.1°C ; Liquid temperature: 21.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.16, 5.16, 5.16); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x141x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

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

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

Reference Value = 1.400 V/m ; Power Drift = -0.05 dB

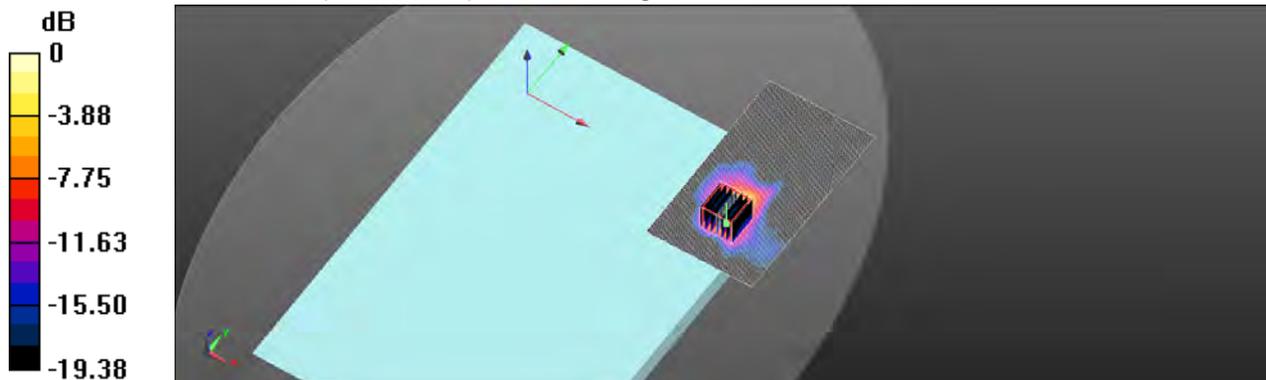
Peak SAR (extrapolated) = 4.15 W/kg

SAR(1 g) = 0.836 W/kg ; SAR(10 g) = 0.230 W/kg

Smallest distance from peaks to all points 3 dB below = 5.4 mm

Ratio of SAR at M2 to SAR at M1 = 53.2%

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



0 dB = 1.85 W/kg = 2.66 dBW/kg

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Date: 2022/5/23

ID: 044

Report No. :TESA2204000084ES

WLAN 802.11ac(80M) 5.8G_Body_Back Surface_CH 155_Aux_0mm

Communication System: WLAN; Frequency: 5775 MHz;Duty Cycle: 1:1.015

Medium parameters used: $f = 5775 \text{ MHz}$; $\sigma = 5.258 \text{ S/m}$; $\epsilon_r = 35.203$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.3, 5.3, 5.3); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x141x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.19 W/kg

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

Reference Value = 1.412 V/m; Power Drift = -0.03 dB

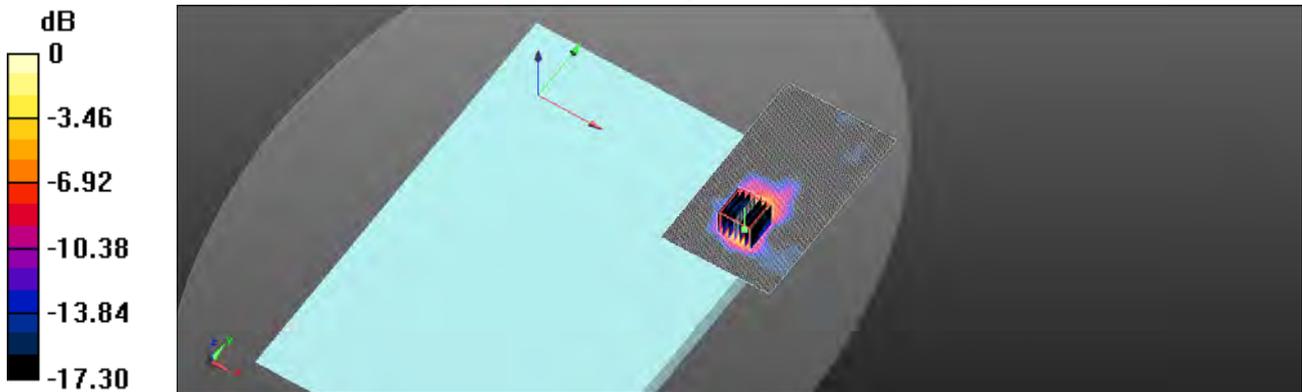
Peak SAR (extrapolated) = 4.99 W/kg

SAR(1 g) = 0.559 W/kg; SAR(10 g) = 0.168 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 52.3%

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



0 dB = 1.09 W/kg = 0.36 dBW/kg

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

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

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ID: 045
Report No. : TESA2204000084ES
Measurement Report for Device, Bottom Surface, U-NII-5,
IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 15 (6025.0 MHz)
Ambient temperature: 22.7; Liquid temperature: 22.1
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	6.2	5.517	34.915

Hardware Setup

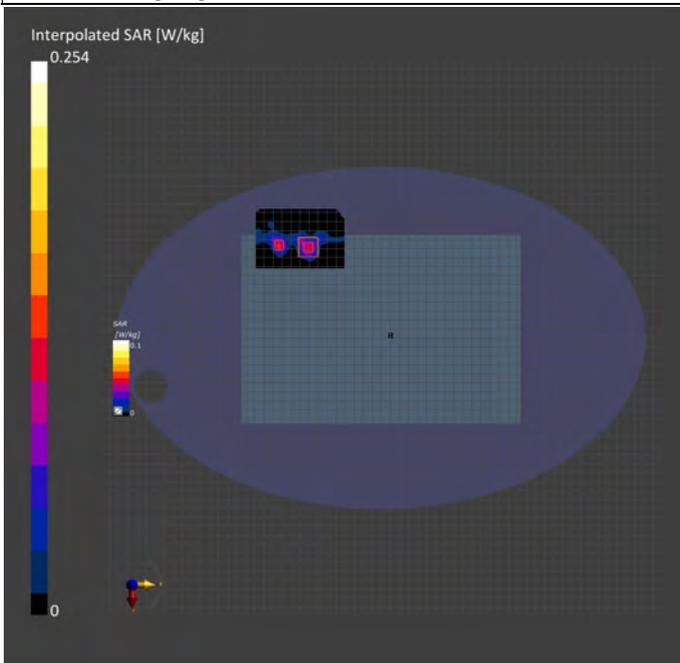
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn1665, 2022-02-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022/5/24	2022/5/24
psSAR1g [W/kg]	0.049	0.053
psSAR8g [W/kg]		
psSAR10g [W/kg]	0.014	0.016
psPDab (4.0cm2, sq) [W/m2]		0.367
Power Drift [dB]	-0.14	-0.12
M2/M1 [%]		58.6
Dist 3dB Peak [mm]		6.1



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ID: 046
Report No. : TESA2204000084ES
Measurement Report for Device, Bottom Surface, U-NII-5,
IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 47 (6185.0 MHz)
Ambient temperature: 22.7; Liquid temperature: 22.1
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	6.2	5.684	34.723

Hardware Setup

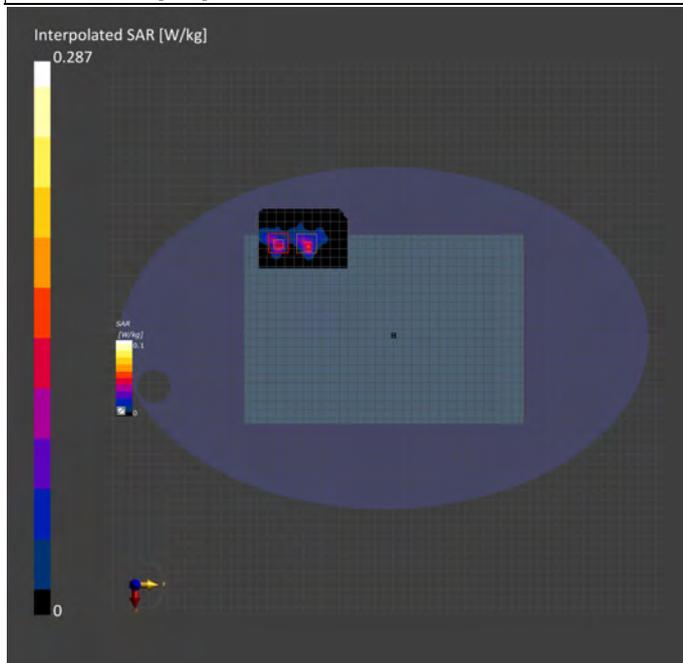
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn1665, 2022-02-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022/5/24	2022/5/24
psSAR1g [W/kg]	0.053	0.058
psSAR8g [W/kg]		
psSAR10g [W/kg]	0.015	0.016
psPDab (4.0cm2, sq) [W/m2]		0.382
Power Drift [dB]	-0.03	-0.08
M2/M1 [%]		54.6
Dist 3dB Peak [mm]		4.8



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ID: 047

Report No. : TESA2204000084ES

Measurement Report for Device, Bottom Surface, U-NII-6,

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 111 (6505.0 MHz)

Ambient temperature: 22.7; Liquid temperature: 22.1

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	6.2	6.02	34.339

Hardware Setup

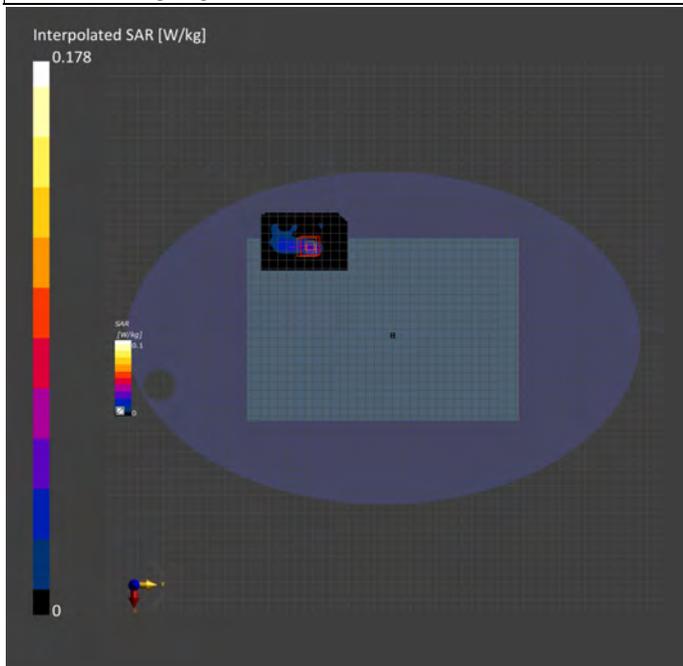
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn1665, 2022-02-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022/5/24	2022/5/24
psSAR1g [W/kg]	0.028	0.032
psSAR8g [W/kg]		
psSAR10g [W/kg]	0.008	0.009
psPDab (4.0cm2, sq) [W/m2]		0.213
Power Drift [dB]	-0.06	0.05
M2/M1 [%]		55.8
Dist 3dB Peak [mm]		6.7



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ID: 048
Report No. : TESA2204000084ES
Measurement Report for Device, Bottom Surface, U-NII-7,
IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 175 (6825.0 MHz)
Ambient temperature: 22.7; Liquid temperature: 22.1
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	6.2	6.361	33.955

Hardware Setup

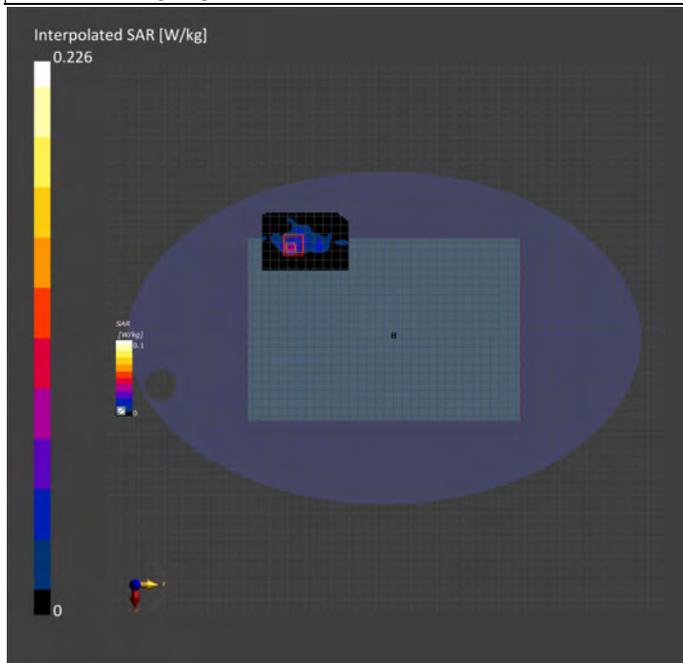
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn1665, 2022-02-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022/5/24	2022/5/24
psSAR1g [W/kg]	0.034	0.037
psSAR8g [W/kg]		
psSAR10g [W/kg]	0.010	0.010
psPDab (4.0cm2, sq) [W/m2]		0.240
Power Drift [dB]	-0.05	-0.03
M2/M1 [%]		56.5
Dist 3dB Peak [mm]		5.6



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ID: 049
Report No. : TESA2204000084ES
Measurement Report for Device, Bottom Surface, U-NII-8,
IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 207 (6985.0 MHz)
Ambient temperature: 22.7; Liquid temperature: 22.1
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	6.14	6.533	33.763

Hardware Setup

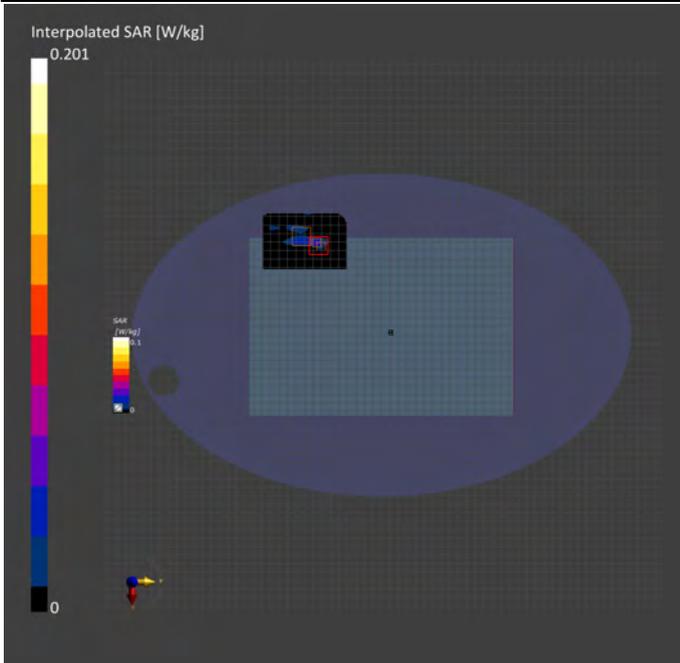
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn1665, 2022-02-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022/5/24	2022/5/24
psSAR1g [W/kg]	0.020	0.034
psSAR8g [W/kg]		
psSAR10g [W/kg]	0.006	0.009
psPDab (4.0cm2, sq) [W/m2]		0.211
Power Drift [dB]	0.14	0.11
M2/M1 [%]		55.0
Dist 3dB Peak [mm]		4.1



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ID: 050
Report No. : TESA2204000084ES
Measurement Report for Device, Bottom Surface, U-NII-5,
IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 15 (6025.0 MHz)
Ambient temperature: 22.7; Liquid temperature: 22.1
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	6.2	5.517	34.915

Hardware Setup

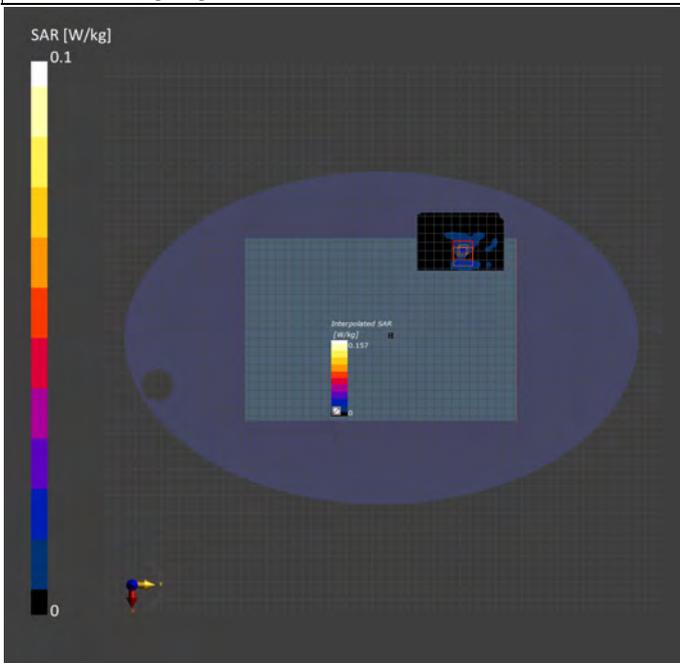
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn1665, 2022-02-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022/5/24	2022/5/24
psSAR1g [W/kg]	0.032	0.034
psSAR8g [W/kg]		
psSAR10g [W/kg]	0.011	0.011
psPDab (4.0cm2, sq) [W/m2]		0.259
Power Drift [dB]	0.09	0.05
M2/M1 [%]		50.3
Dist 3dB Peak [mm]		> 11.0



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ID: 051
Report No. : TESA2204000084ES
Measurement Report for Device, Bottom Surface, U-NII-5,
IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 47 (6185.0 MHz)
Ambient temperature: 22.7; Liquid temperature: 22.1
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	6.2	5.684	34.723

Hardware Setup

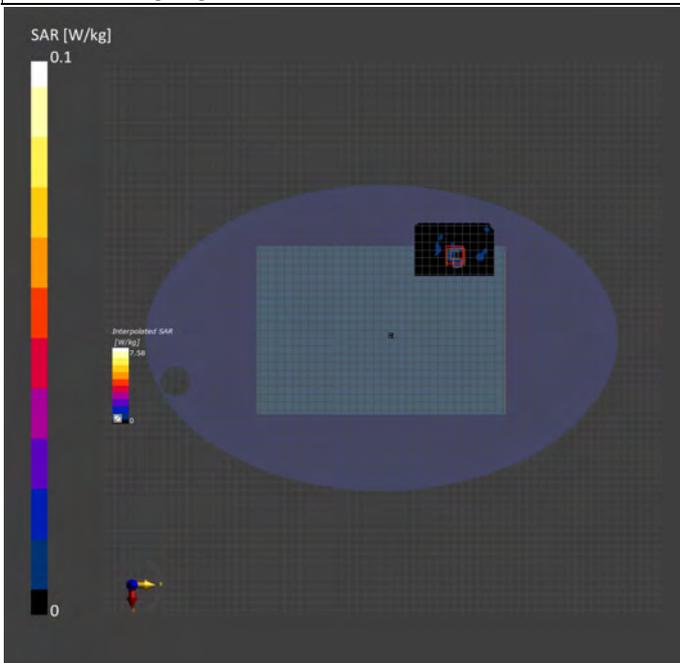
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn1665, 2022-02-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022/5/24	2022/5/24
psSAR1g [W/kg]	0.020	0.022
psSAR8g [W/kg]		
psSAR10g [W/kg]	0.006	0.007
psPDab (4.0cm2, sq) [W/m2]		0.150
Power Drift [dB]	0.07	0.04
M2/M1 [%]		48.8
Dist 3dB Peak [mm]		> 11.0



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ID: 052
Report No. : TESA2204000084ES
Measurement Report for Device, Bottom Surface, U-NII-6,
IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 111 (6505.0 MHz)
Ambient temperature: 22.7; Liquid temperature: 22.1
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	6.2	6.02	34.339

Hardware Setup

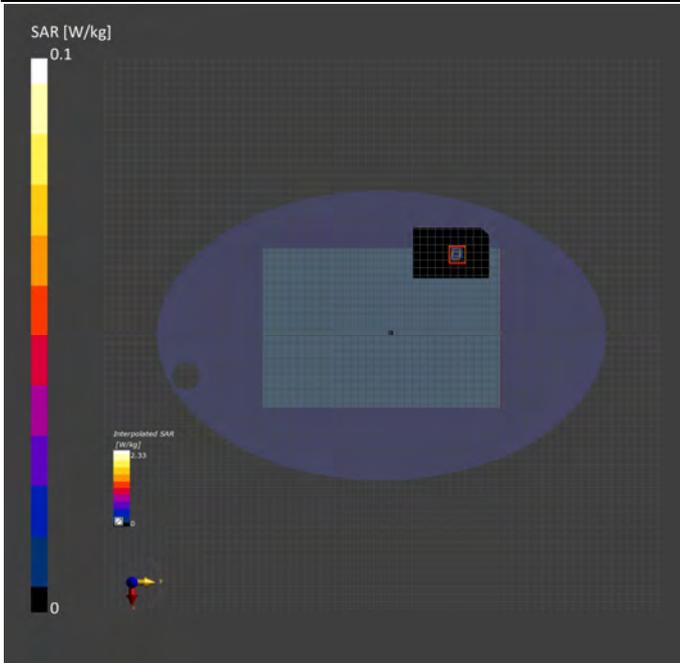
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn1665, 2022-02-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022/5/24	2022/5/24
psSAR1g [W/kg]	0.020	0.021
psSAR8g [W/kg]		
psSAR10g [W/kg]	0.006	0.007
psPDab (4.0cm2, sq) [W/m2]		0.157
Power Drift [dB]	0.12	0.16
M2/M1 [%]		48.8
Dist 3dB Peak [mm]		> 11.0



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ID: 053

Report No. : TESA2204000084ES

Measurement Report for Device, Bottom Surface, U-NII-7,

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 175 (6825.0 MHz)

Ambient temperature: 22.7; Liquid temperature: 22.1

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	6.2	6.361	33.955

Hardware Setup

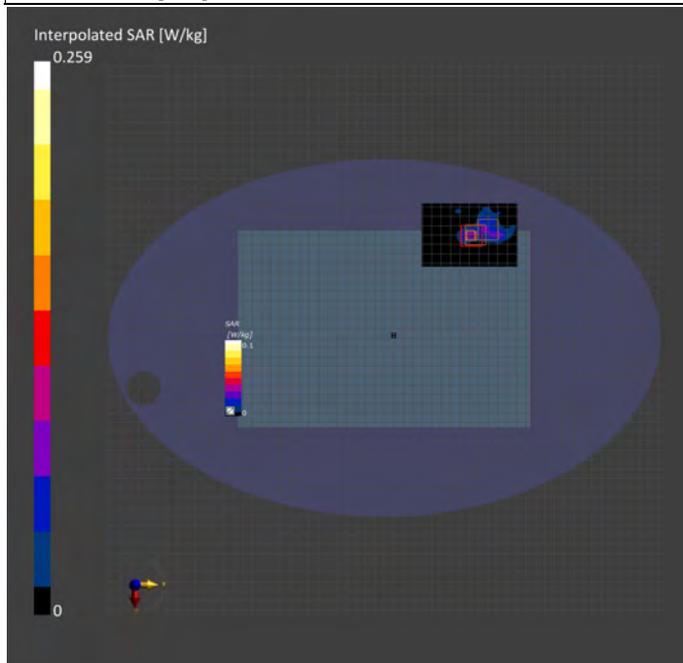
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn1665, 2022-02-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022/5/24	2022/5/24
psSAR1g [W/kg]	0.043	0.048
psSAR8g [W/kg]		
psSAR10g [W/kg]	0.014	0.016
psPDab (4.0cm2, sq) [W/m2]		0.361
Power Drift [dB]	-0.11	0.15
M2/M1 [%]		42.1
Dist 3dB Peak [mm]		8.4



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ID: 054

Report No. : TESA2204000084ES

Measurement Report for Device, Bottom Surface, U-NII-8,

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 207 (6985.0 MHz)

Ambient temperature: 22.7; Liquid temperature: 22.1

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	6.14	6.533	33.763

Hardware Setup

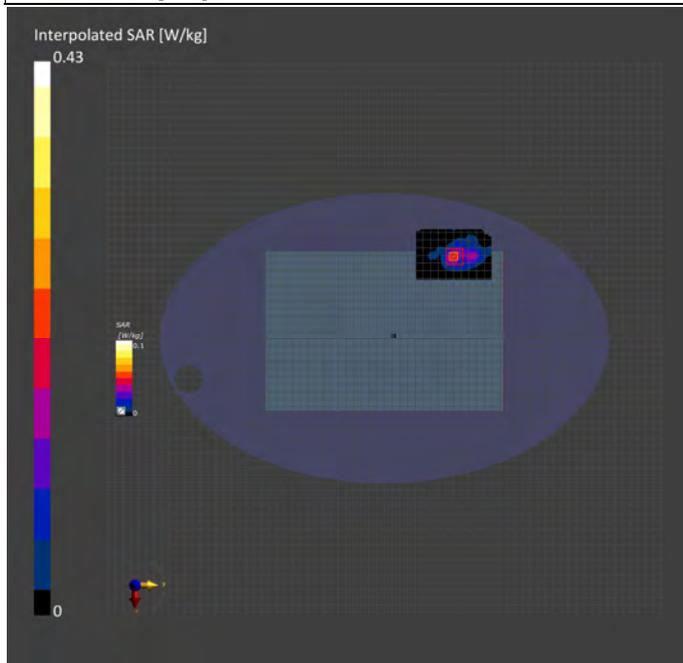
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn1665, 2022-02-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022/5/24	2022/5/24
psSAR1g [W/kg]	0.076	0.079
psSAR8g [W/kg]		
psSAR10g [W/kg]	0.025	0.026
psPDab (4.0cm2, sq) [W/m2]		0.586
Power Drift [dB]	0.14	0.17
M2/M1 [%]		46.3
Dist 3dB Peak [mm]		7.8



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ID: 055
Report No. : TESA2204000084ES
Measurement Report for Device, Back Surface, U-NII-5,
IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 15 (6025.0 MHz)
Ambient temperature: 22.7; Liquid temperature: 22.1
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Back Surface, 0.00	6.2	5.517	34.915

Hardware Setup

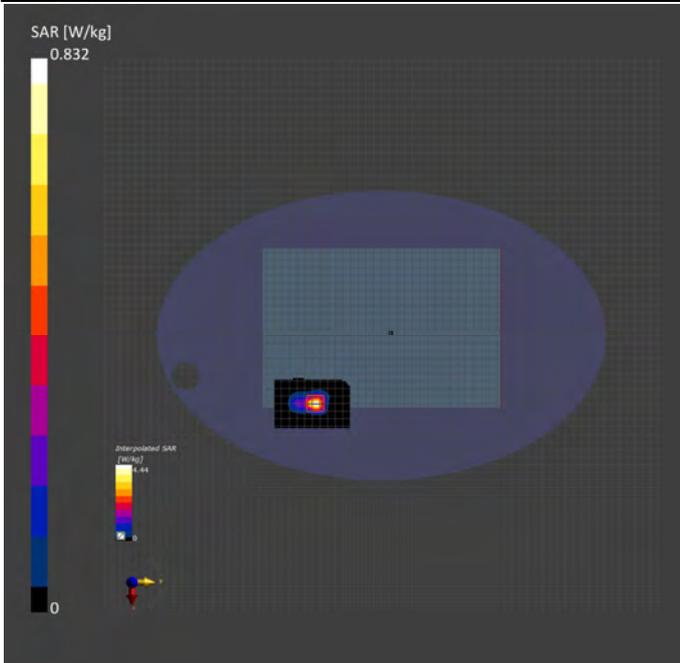
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn1665, 2022-02-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022/5/24	2022/5/24
psSAR1g [W/kg]	0.905	0.979
psSAR8g [W/kg]		
psSAR10g [W/kg]	0.262	0.272
psPDab (4.0cm2, sq) [W/m2]		6.45
Power Drift [dB]	0.06	0.07
M2/M1 [%]		55.7
Dist 3dB Peak [mm]		6.7



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ID: 056
Report No. : TESA2204000084ES
Measurement Report for Device, Back Surface, U-NII-5,
IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 47 (6185.0 MHz)
Ambient temperature: 22.7; Liquid temperature: 22.1
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Back Surface, 0.00	6.2	5.684	34.723

Hardware Setup

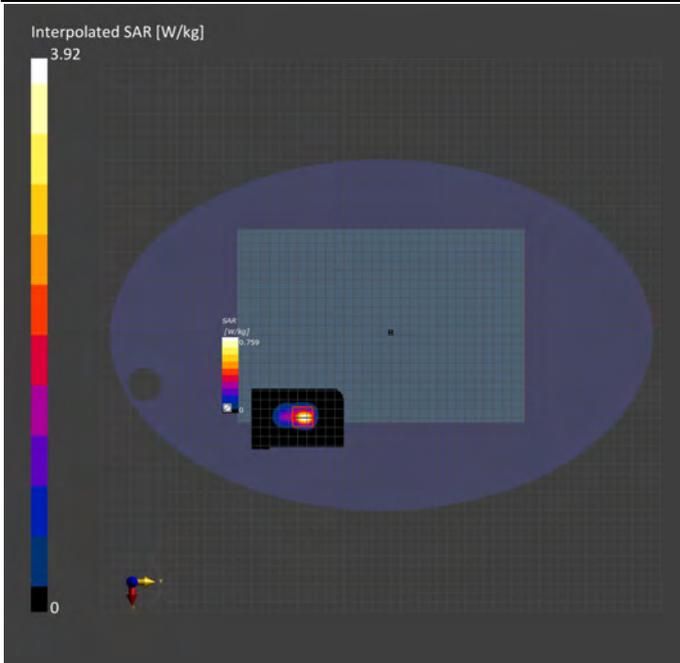
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn1665, 2022-02-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022/5/24	2022/5/24
psSAR1g [W/kg]	0.765	0.804
psSAR8g [W/kg]		
psSAR10g [W/kg]	0.212	0.212
psPDab (4.0cm2, sq) [W/m2]		5.06
Power Drift [dB]	0.07	-0.02
M2/M1 [%]		55.0
Dist 3dB Peak [mm]		5.8



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ID: 057
Report No. : TESA2204000084ES
Measurement Report for Device, Back Surface, U-NII-6,
IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 111 (6505.0 MHz)
Ambient temperature: 22.7; Liquid temperature: 22.1
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Back Surface, 0.00	6.2	6.02	34.339

Hardware Setup

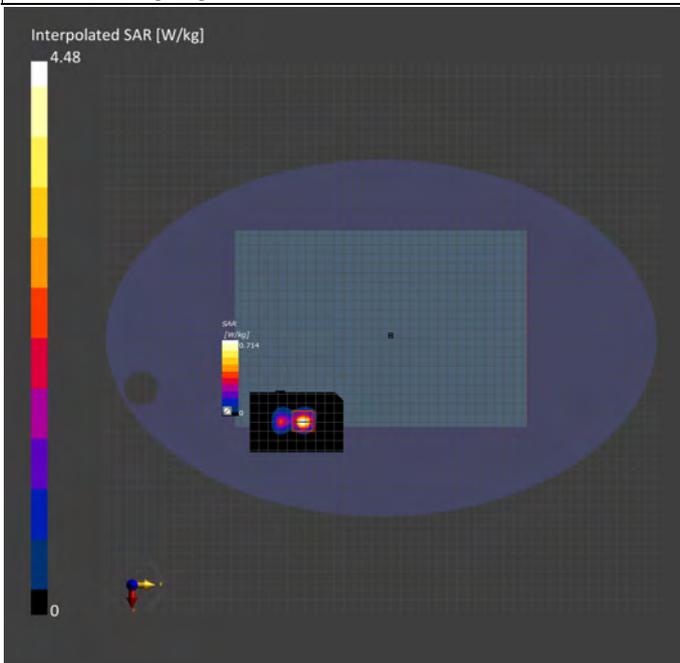
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn1665, 2022-02-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 85.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022/5/24	2022/5/24
psSAR1g [W/kg]	0.762	0.825
psSAR8g [W/kg]		
psSAR10g [W/kg]	0.191	0.198
psPDab (4.0cm2, sq) [W/m2]		4.75
Power Drift [dB]	0.11	0.04
M2/M1 [%]		52.4
Dist 3dB Peak [mm]		5.5



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ID: 058
Report No. : TESA2204000084ES
**Measurement Report for Device, Back Surface, U-NII-7,
IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 175 (6825.0 MHz)**
Ambient temperature: 22.7; Liquid temperature: 22.1
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Back Surface, 0.00	6.2	6.361	33.955

Hardware Setup

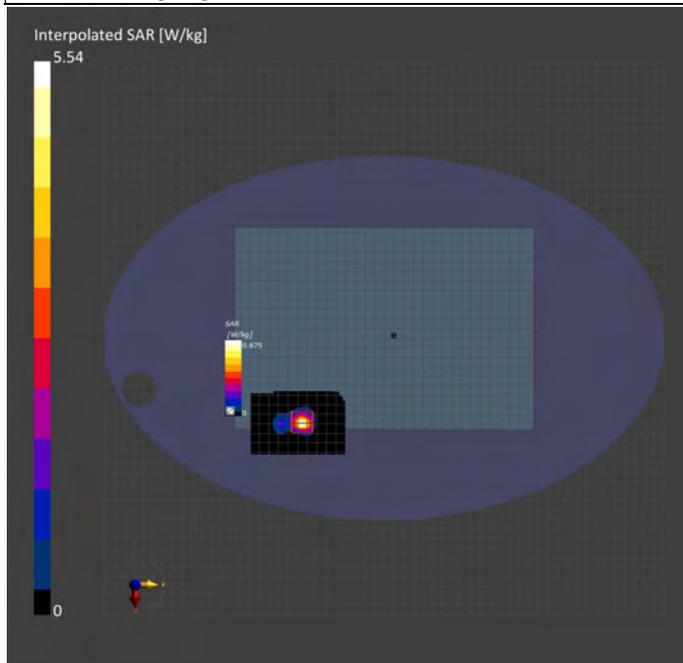
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn1665, 2022-02-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 85.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022/5/24	2022/5/24
psSAR1g [W/kg]	1.02	1.00
psSAR8g [W/kg]		
psSAR10g [W/kg]	0.264	0.260
psPDab (4.0cm2, sq) [W/m2]		6.19
Power Drift [dB]	-0.12	-0.11
M2/M1 [%]		49.2
Dist 3dB Peak [mm]		5.8



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ID: 059
Report No. : TESA2204000084ES
Measurement Report for Device, Back Surface, U-NII-8,
IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 207 (6985.0 MHz)
Ambient temperature: 22.7; Liquid temperature: 22.1
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Back Surface, 0.00	6.14	6.533	33.763

Hardware Setup

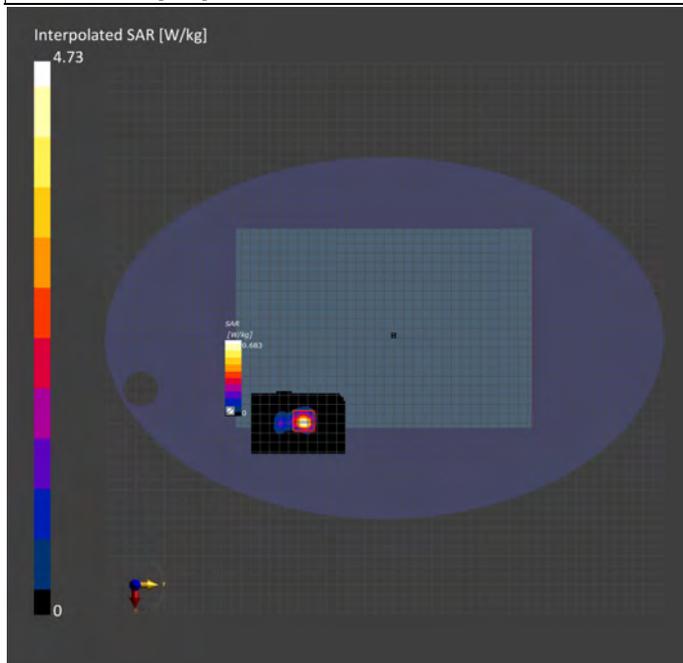
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn1665, 2022-02-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022/5/24	2022/5/24
psSAR1g [W/kg]	0.836	0.807
psSAR8g [W/kg]		
psSAR10g [W/kg]	0.207	0.201
psPDab (4.0cm2, sq) [W/m2]		4.80
Power Drift [dB]	0.12	-0.04
M2/M1 [%]		48.5
Dist 3dB Peak [mm]		5.2



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ID: 060
Report No. : TESA2204000084ES
Measurement Report for Device, Back Surface, U-NII-5,
IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 15 (6025.0 MHz)
Ambient temperature: 22.7; Liquid temperature: 22.1
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Back Surface, 0.00	6.2	5.517	34.915

Hardware Setup

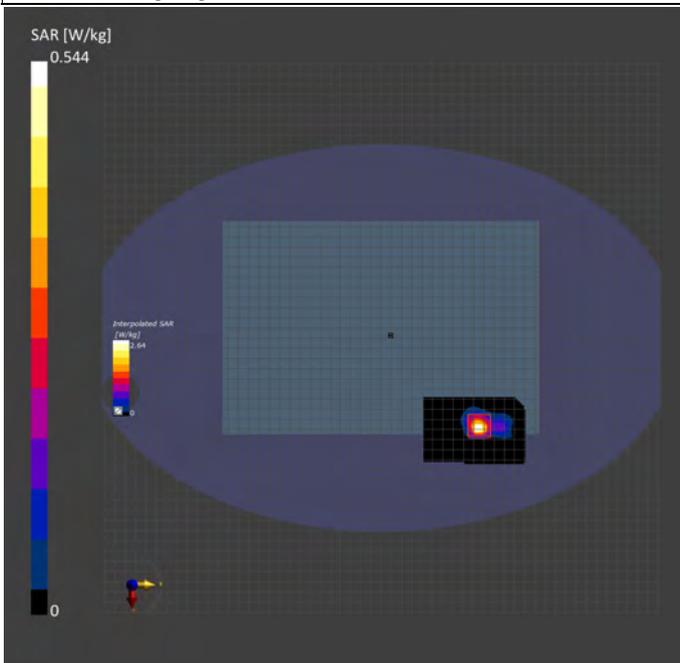
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn1665, 2022-02-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022/5/24	2022/5/24
psSAR1g [W/kg]	0.519	0.567
psSAR8g [W/kg]		
psSAR10g [W/kg]	0.148	0.159
psPDab (4.0cm2, sq) [W/m2]		3.72
Power Drift [dB]	0.14	-0.14
M2/M1 [%]		55.2
Dist 3dB Peak [mm]		6.1



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ID: 061
Report No. : TESA2204000084ES
Measurement Report for Device, Back Surface, U-NII-5,
IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 47 (6185.0 MHz)
Ambient temperature: 22.7; Liquid temperature: 22.1
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Back Surface, 0.00	6.2	5.684	34.723

Hardware Setup

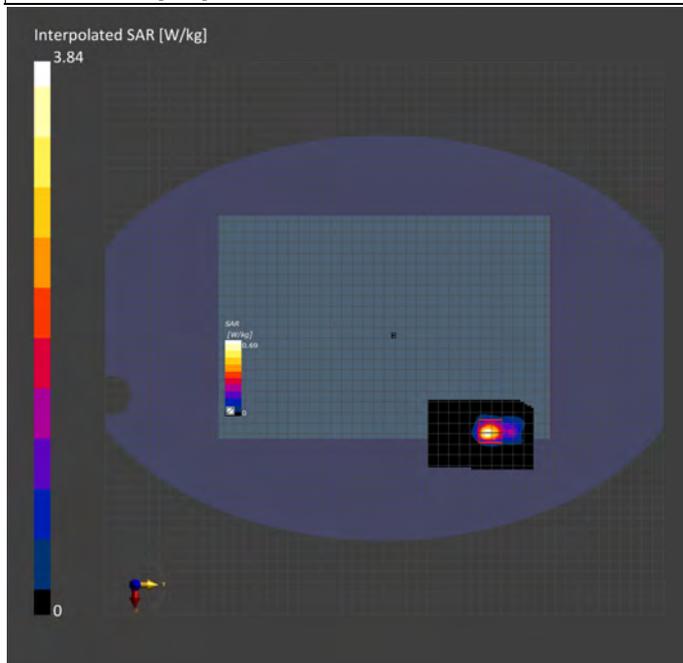
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn1665, 2022-02-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022/5/24	2022/5/24
psSAR1g [W/kg]	0.712	0.797
psSAR8g [W/kg]		
psSAR10g [W/kg]	0.198	0.222
psPDab (4.0cm2, sq) [W/m2]		5.18
Power Drift [dB]	0.10	-0.02
M2/M1 [%]		52.7
Dist 3dB Peak [mm]		6.7



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ID: 062
Report No. : TESA2204000084ES
Measurement Report for Device, Back Surface, U-NII-6,
IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 111 (6505.0 MHz)
Ambient temperature: 22.7; Liquid temperature: 22.1
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Back Surface, 0.00	6.2	6.02	34.339

Hardware Setup

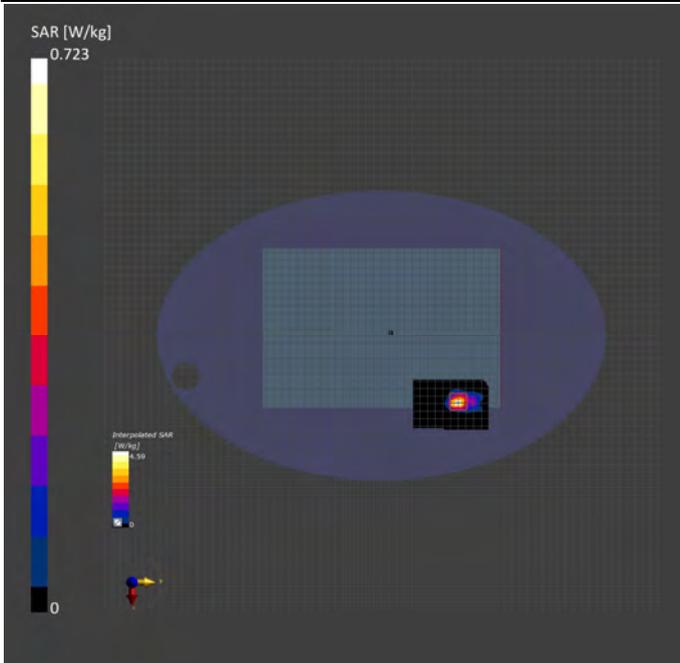
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn1665, 2022-02-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022/5/24	2022/5/24
psSAR1g [W/kg]	0.820	0.900
psSAR8g [W/kg]		
psSAR10g [W/kg]	0.231	0.250
psPDab (4.0cm2, sq) [W/m2]		5.84
Power Drift [dB]	0.15	0.02
M2/M1 [%]		50.3
Dist 3dB Peak [mm]		6.1



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ID: 063

Report No. : TESA2204000084ES

Measurement Report for Device, Back Surface, U-NII-7,

IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 175 (6825.0 MHz)

Ambient temperature: 22.7; Liquid temperature: 22.1

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Back Surface, 0.00	6.2	6.361	33.955

Hardware Setup

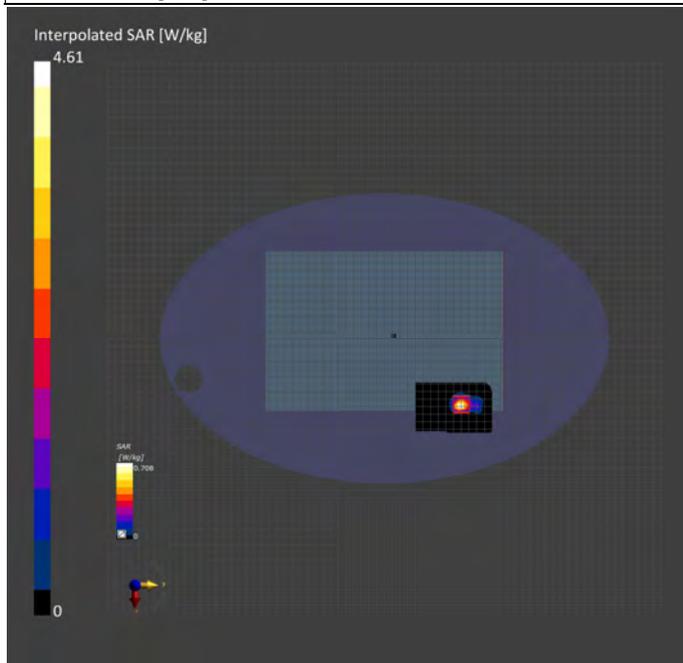
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn1665, 2022-02-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022/5/24	2022/5/24
psSAR1g [W/kg]	0.798	0.848
psSAR8g [W/kg]		
psSAR10g [W/kg]	0.221	0.233
psPDab (4.0cm2, sq) [W/m2]		5.46
Power Drift [dB]	0.15	0.04
M2/M1 [%]		48.4
Dist 3dB Peak [mm]		5.4



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ID: 064
Report No. : TESA2204000084ES
Measurement Report for Device, Back Surface, U-NII-8,
IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 207 (6985.0 MHz)
Ambient temperature: 22.7; Liquid temperature: 22.1
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Back Surface, 0.00	6.14	6.533	33.763

Hardware Setup

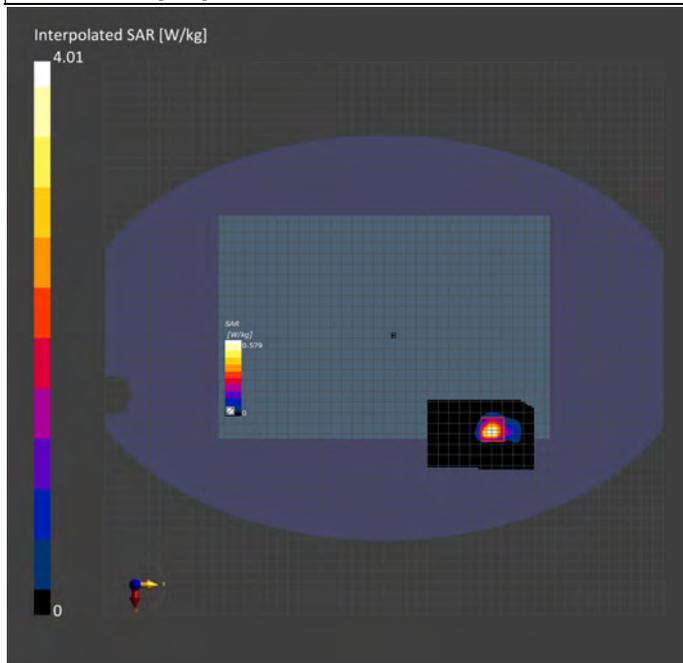
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn1665, 2022-02-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022/5/24	2022/5/24
psSAR1g [W/kg]	0.680	0.724
psSAR8g [W/kg]		
psSAR10g [W/kg]	0.191	0.198
psPDab (4.0cm2, sq) [W/m2]		4.65
Power Drift [dB]	0.12	-0.04
M2/M1 [%]		48.2
Dist 3dB Peak [mm]		5.4



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ID: 065
**Measurement Report for Device, Bottom Surface, U-NII-5,
IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 15 (6025.0 MHz)**
Ambient temperature: 22.7; Liquid temperature: 22.1
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	6.2	5.517	34.915

Hardware Setup

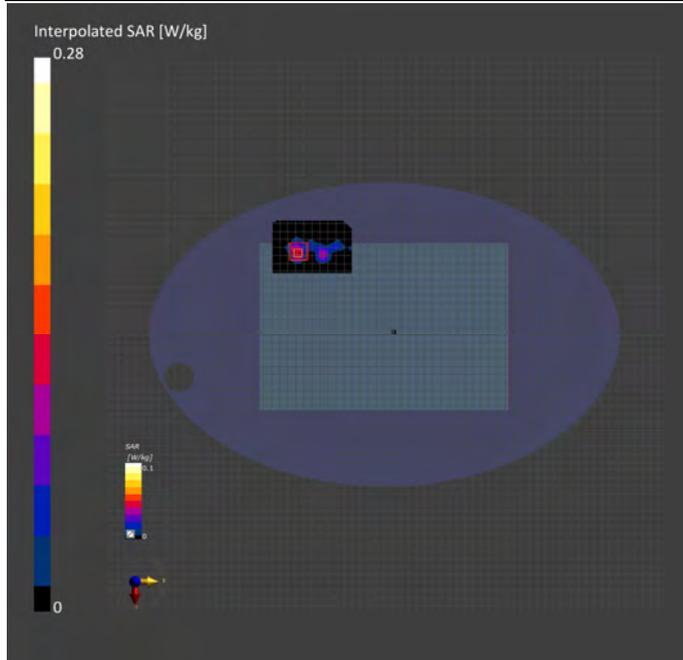
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn1665, 2022-02-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-05-24	2022-05-24
psSAR1g [W/kg]	0.051	0.057
psSAR8g [W/kg]		
psSAR10g [W/kg]	0.014	0.016
psPDab (4.0cm ² , sq) [W/m ²]		0.375
Power Drift [dB]	-0.12	-0.17
M2/M1 [%]		51.9
Dist 3dB Peak [mm]		4.8



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ID: 066
**Measurement Report for Device, Bottom Surface, U-NII-5,
IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 47 (6185.0 MHz)**
Ambient temperature: 22.7; Liquid temperature: 22.1
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	6.2	5.684	34.723

Hardware Setup

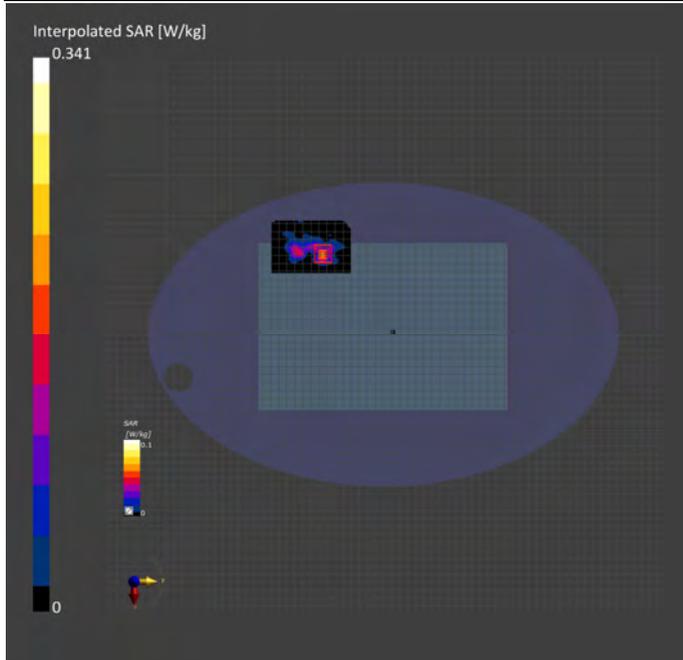
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn1665, 2022-02-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-05-24	2022-05-24
psSAR1g [W/kg]	0.064	0.071
psSAR8g [W/kg]		
psSAR10g [W/kg]	0.020	0.022
psPDab (4.0cm2, sq) [W/m2]		0.501
Power Drift [dB]	0.12	-0.12
M2/M1 [%]		50.2
Dist 3dB Peak [mm]		6.9



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ID: 067

**Measurement Report for Device, Bottom Surface, U-NII-6,
IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 111 (6505.0 MHz)**
Ambient temperature: 22.7; Liquid temperature: 22.1
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	6.2	6.02	34.339

Hardware Setup

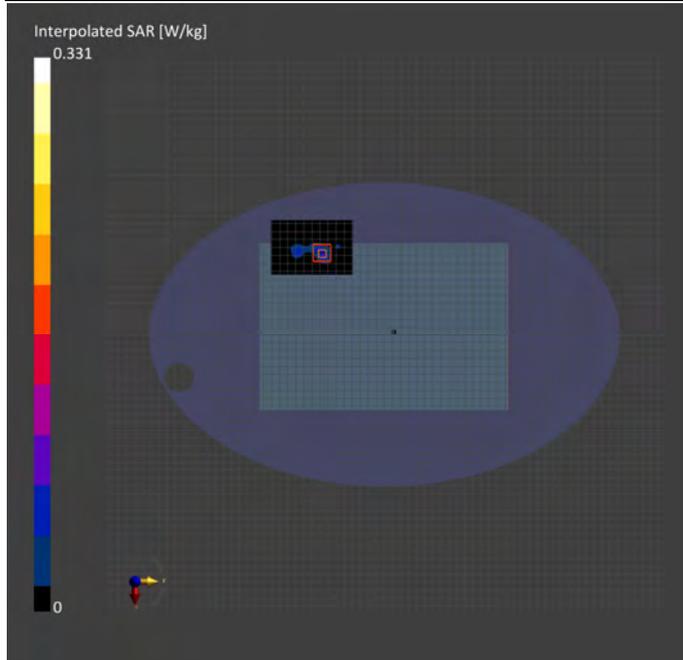
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn1665, 2022-02-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-05-24	2022-05-24
psSAR1g [W/kg]	0.064	0.068
psSAR8g [W/kg]		
psSAR10g [W/kg]	0.021	0.021
psPDab (4.0cm ² , sq) [W/m ²]		0.488
Power Drift [dB]	0.11	-0.07
M2/M1 [%]		48.9
Dist 3dB Peak [mm]		6.1



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ID: 068

**Measurement Report for Device, Bottom Surface, U-NII-7,
IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 143 (6665.0 MHz)**

Ambient temperature: 22.7; Liquid temperature: 22.1

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	6.2	6.19	34.147

Hardware Setup

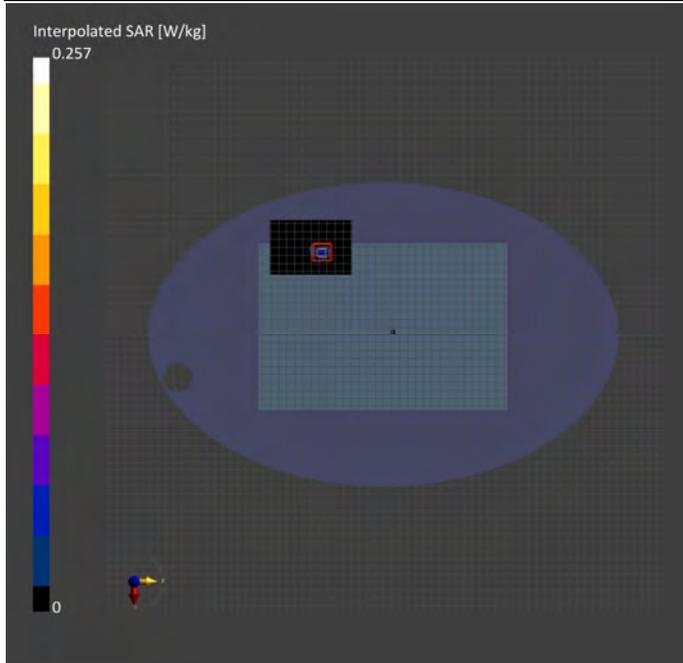
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn1665, 2022-02-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-05-24	2022-05-24
psSAR1g [W/kg]	0.040	0.047
psSAR8g [W/kg]		
psSAR10g [W/kg]	0.011	0.015
psPDab (4.0cm2, sq) [W/m2]		0.341
Power Drift [dB]	0.03	-0.06
M2/M1 [%]		53.3
Dist 3dB Peak [mm]		6.7



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ID: 069

Measurement Report for Device, Bottom Surface, U-NII-8,
IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 207 (6985.0 MHz)

Ambient temperature: 22.7; Liquid temperature: 22.1

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	6.14	6.533	33.763

Hardware Setup

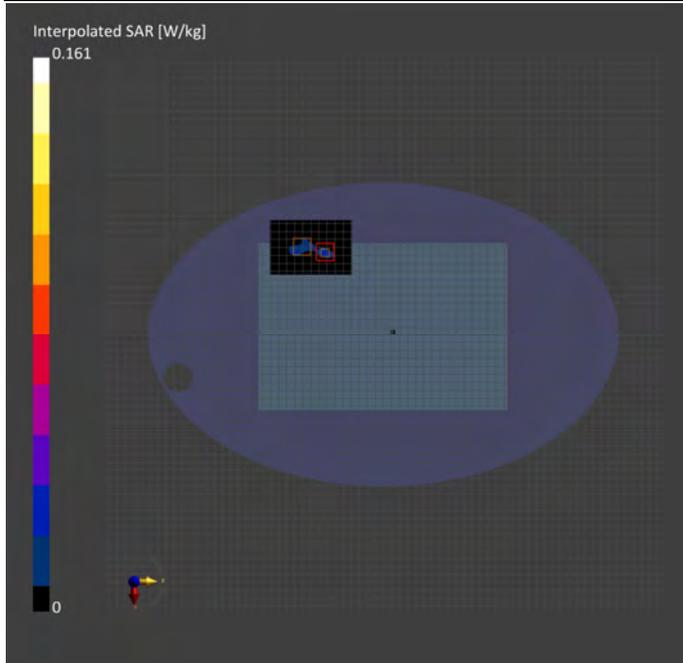
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn1665, 2022-02-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-05-24	2022-05-24
psSAR1g [W/kg]	0.023	0.025
psSAR8g [W/kg]		
psSAR10g [W/kg]	0.006	0.007
psPDab (4.0cm2, sq) [W/m2]		0.158
Power Drift [dB]	0.03	-0.01
M2/M1 [%]		52.5
Dist 3dB Peak [mm]		> 11.0



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ID: 070

**Measurement Report for Device, Bottom Surface, U-NII-5,
IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 15 (6025.0 MHz)**
Ambient temperature: 22.7; Liquid temperature: 22.1
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	6.2	5.517	34.915

Hardware Setup

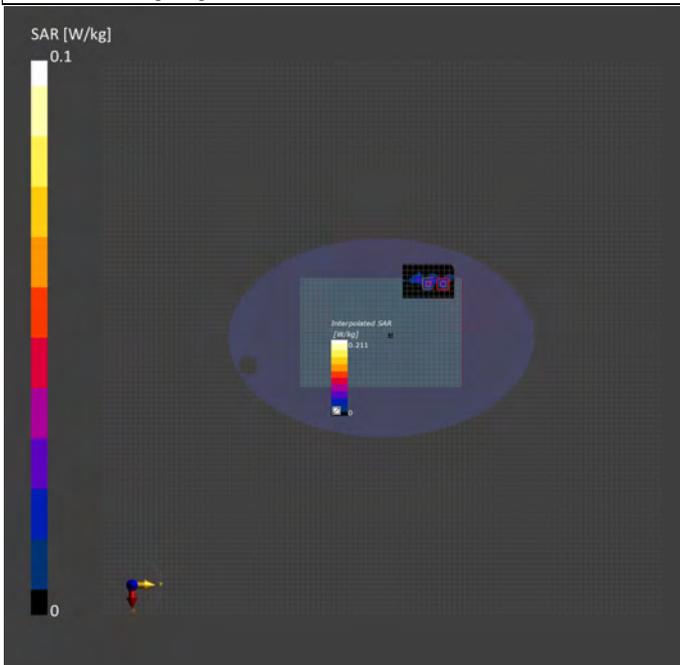
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn1665, 2022-02-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-05-24	2022-05-24
psSAR1g [W/kg]	0.037	0.038
psSAR8g [W/kg]		
psSAR10g [W/kg]	0.012	0.010
psPDab (4.0cm2, sq) [W/m2]		0.236
Power Drift [dB]	-0.11	-0.17
M2/M1 [%]		59.0
Dist 3dB Peak [mm]		5.6



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ID: 071

**Measurement Report for Device, Bottom Surface, U-NII-5,
IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 47 (6185.0 MHz)**
Ambient temperature: 22.7; Liquid temperature: 22.1
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	6.2	5.684	34.723

Hardware Setup

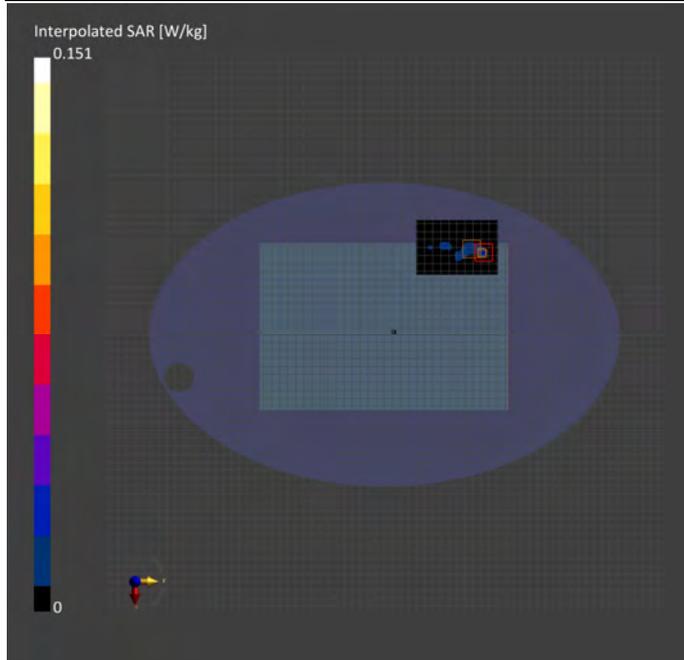
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn1665, 2022-02-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-05-24	2022-05-24
psSAR1g [W/kg]	0.019	0.027
psSAR8g [W/kg]		
psSAR10g [W/kg]	0.006	0.007
psPDab (4.0cm2, sq) [W/m2]		0.175
Power Drift [dB]	0.08	-0.16
M2/M1 [%]		49.2
Dist 3dB Peak [mm]		> 11.0



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ID: 072
**Measurement Report for Device, Bottom Surface, U-NII-6,
IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 111 (6505.0 MHz)**
Ambient temperature: 22.7; Liquid temperature: 22.1
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	6.2	6.02	34.339

Hardware Setup

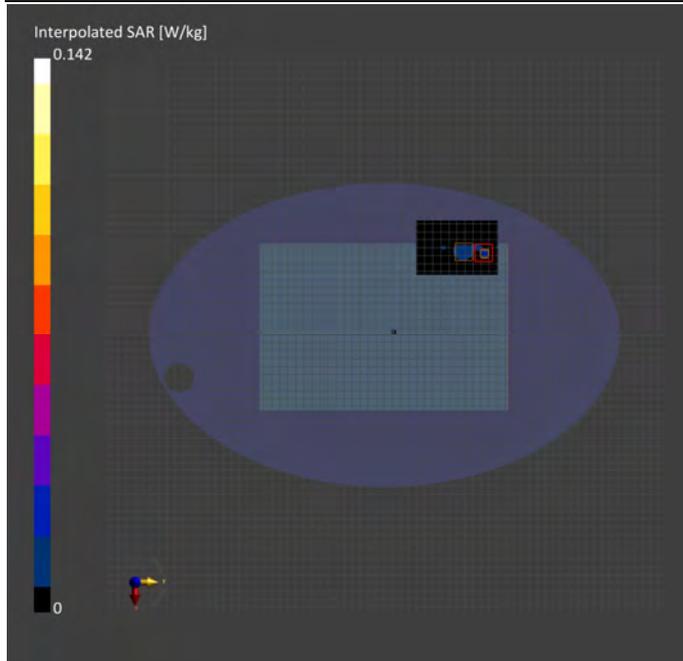
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn1665, 2022-02-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-05-24	2022-05-24
psSAR1g [W/kg]	0.018	0.025
psSAR8g [W/kg]		
psSAR10g [W/kg]	0.006	0.007
psPDab (4.0cm2, sq) [W/m2]		0.166
Power Drift [dB]	-0.16	-0.13
M2/M1 [%]		43.2
Dist 3dB Peak [mm]		> 11.0



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ID: 073

**Measurement Report for Device, Bottom Surface, U-NII-7,
IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 175 (6825.0 MHz)**
Ambient temperature: 22.7; Liquid temperature: 22.1
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	6.2	6.361	33.955

Hardware Setup

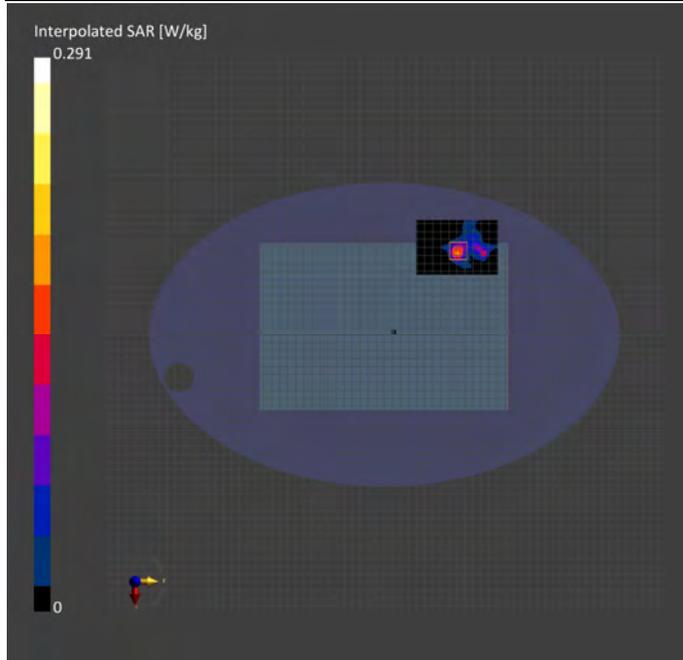
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn1665, 2022-02-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-05-24	2022-05-24
psSAR1g [W/kg]	0.047	0.056
psSAR8g [W/kg]		
psSAR10g [W/kg]	0.014	0.018
psPDab (4.0cm2, sq) [W/m2]		0.404
Power Drift [dB]	-0.13	-0.14
M2/M1 [%]		45.3
Dist 3dB Peak [mm]		6.7



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ID: 074

**Measurement Report for Device, Bottom Surface, U-NII-8,
IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 207 (6985.0 MHz)**
Ambient temperature: 22.7; Liquid temperature: 22.1
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	6.14	6.533	33.763

Hardware Setup

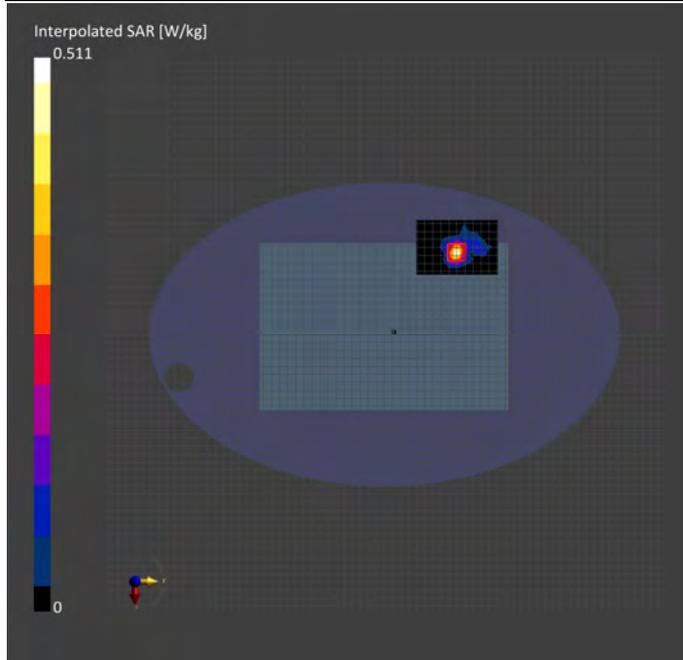
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn1665, 2022-02-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-05-24	2022-05-24
psSAR1g [W/kg]	0.088	0.096
psSAR8g [W/kg]		
psSAR10g [W/kg]	0.028	0.030
psPDab (4.0cm2, sq) [W/m2]		0.686
Power Drift [dB]	0.08	0.08
M2/M1 [%]		44.4
Dist 3dB Peak [mm]		6.8



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ID: 075
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Back Surface, 0.00	6.2	5.517	34.915

Hardware Setup

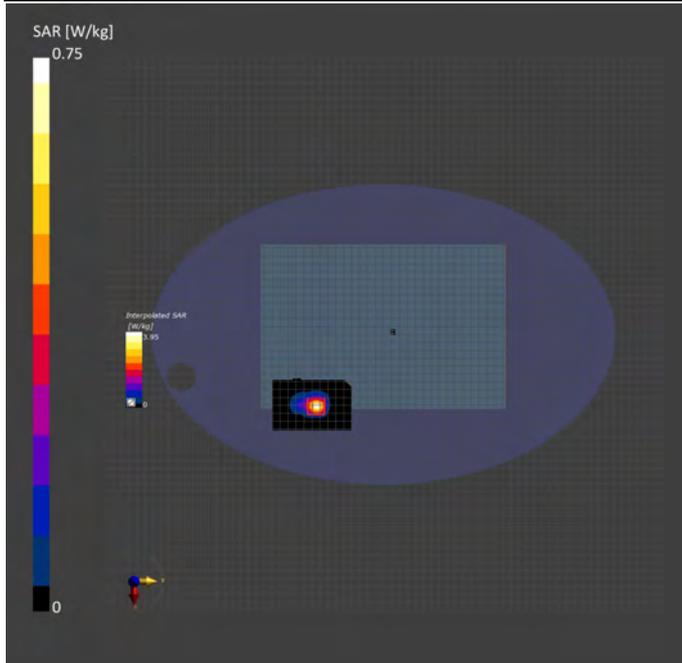
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn1665, 2022-02-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 85.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-05-24	2022-05-24
psSAR1g [W/kg]	0.801	0.875
psSAR8g [W/kg]		
psSAR10g [W/kg]	0.238	0.251
psPDab (4.0cm ² , sq) [W/m ²]		5.86
Power Drift [dB]	0.14	-0.06
M2/M1 [%]		56.4
Dist 3dB Peak [mm]		6.2



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ID: 076
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Back Surface, 0.00	6.2	5.684	34.723

Hardware Setup

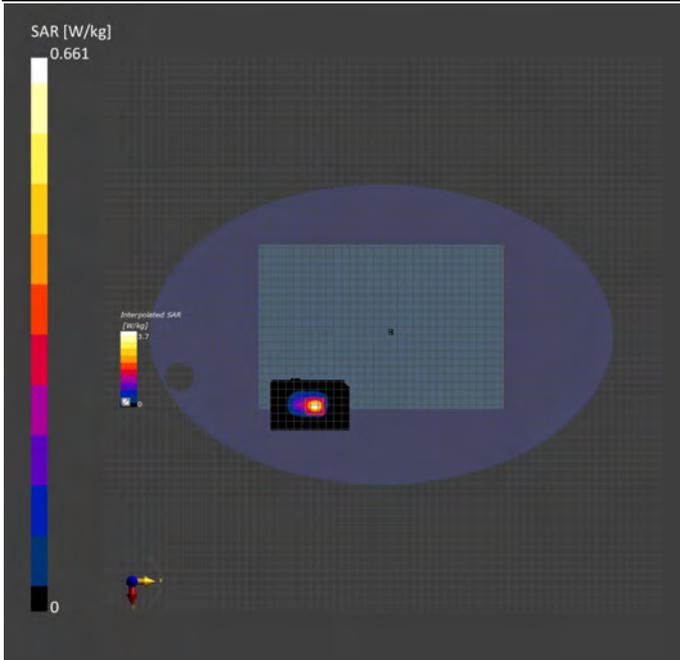
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn1665, 2022-02-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-05-24	2022-05-24
psSAR1g [W/kg]	0.705	0.767
psSAR8g [W/kg]		
psSAR10g [W/kg]	0.208	0.213
psPDab (4.0cm2, sq) [W/m2]		4.99
Power Drift [dB]	0.12	-0.02
M2/M1 [%]		53.2
Dist 3dB Peak [mm]		5.6



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ID: 077

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Back Surface, 0.00	6.2	6.02	34.339

Hardware Setup

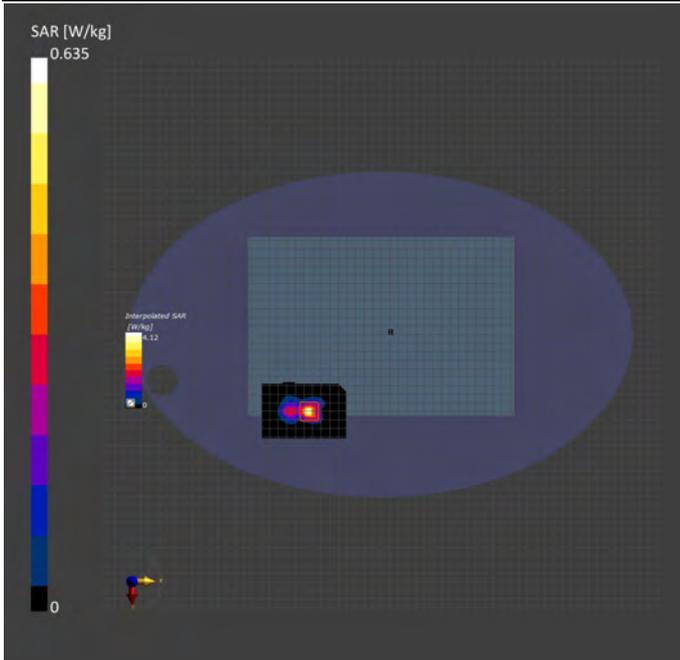
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn1665, 2022-02-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 85.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-05-24	2022-05-24
psSAR1g [W/kg]	0.714	0.782
psSAR8g [W/kg]		
psSAR10g [W/kg]	0.191	0.200
psPDab (4.0cm2, sq) [W/m2]		4.72
Power Drift [dB]	0.05	-0.19
M2/M1 [%]		51.1
Dist 3dB Peak [mm]		5.6



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ID: 078
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Back Surface, 0.00	6.2	6.19	34.147

Hardware Setup

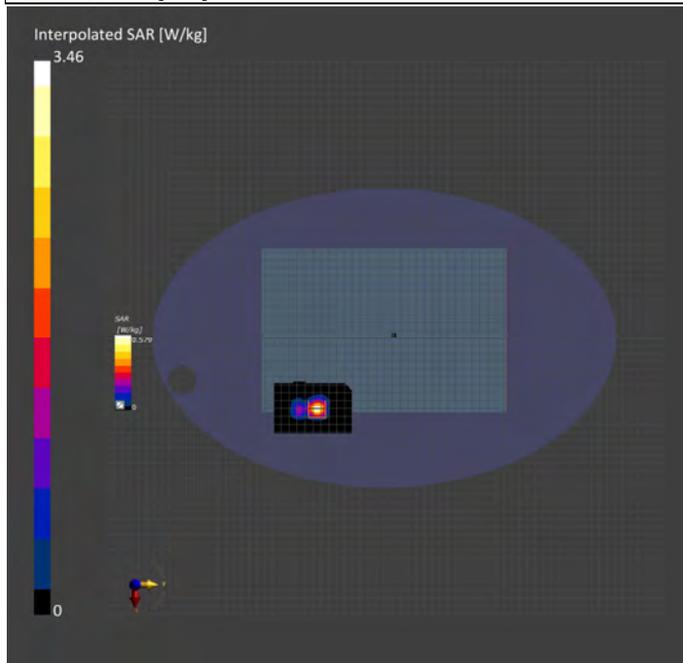
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn1665, 2022-02-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-05-24	2022-05-24
psSAR1g [W/kg]	0.660	0.680
psSAR8g [W/kg]		
psSAR10g [W/kg]	0.188	0.195
psPDab (4.0cm2, sq) [W/m2]		4.57
Power Drift [dB]	0.11	-0.03
M2/M1 [%]		50.0
Dist 3dB Peak [mm]		7.1



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ID: 079
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Back Surface, 0.00	6.14	6.533	33.763

Hardware Setup

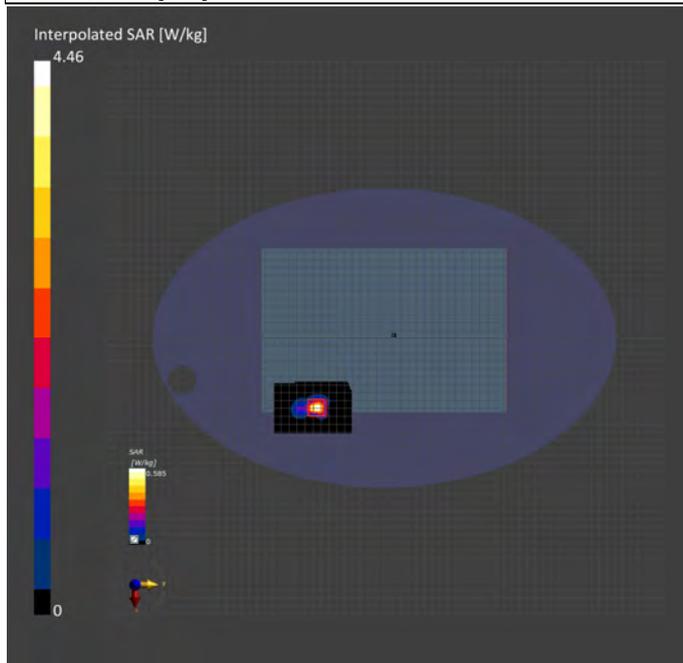
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn1665, 2022-02-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-05-24	2022-05-24
psSAR1g [W/kg]	0.782	0.777
psSAR8g [W/kg]		
psSAR10g [W/kg]	0.205	0.206
psPDab (4.0cm ² , sq) [W/m ²]		4.87
Power Drift [dB]	0.01	0.03
M2/M1 [%]		47.8
Dist 3dB Peak [mm]		5.2



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ID: 080
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Back Surface, 0.00	6.2	5.684	34.723

Hardware Setup

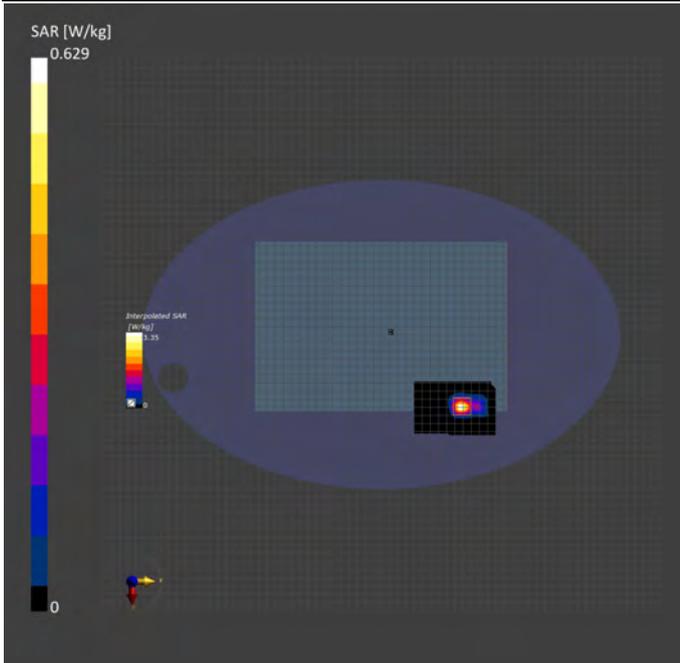
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn1665, 2022-02-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-05-24	2022-05-24
psSAR1g [W/kg]	0.615	0.707
psSAR8g [W/kg]		
psSAR10g [W/kg]	0.181	0.204
psPDab (4.0cm2, sq) [W/m2]		4.73
Power Drift [dB]	0.06	-0.07
M2/M1 [%]		53.0
Dist 3dB Peak [mm]		6.3



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ID: 081
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Back Surface, 0.00	6.2	5.851	34.531

Hardware Setup

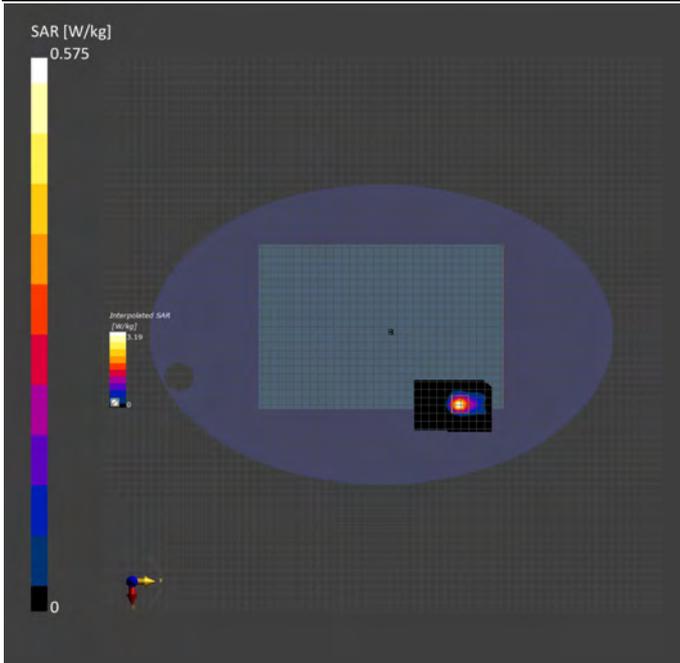
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn1665, 2022-02-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-05-24	2022-05-24
psSAR1g [W/kg]	0.600	0.658
psSAR8g [W/kg]		
psSAR10g [W/kg]	0.175	0.191
psPDab (4.0cm2, sq) [W/m2]		4.44
Power Drift [dB]	0.10	-0.01
M2/M1 [%]		51.2
Dist 3dB Peak [mm]		6.8



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ID: 082
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Back Surface, 0.00	6.2	6.02	34.339

Hardware Setup

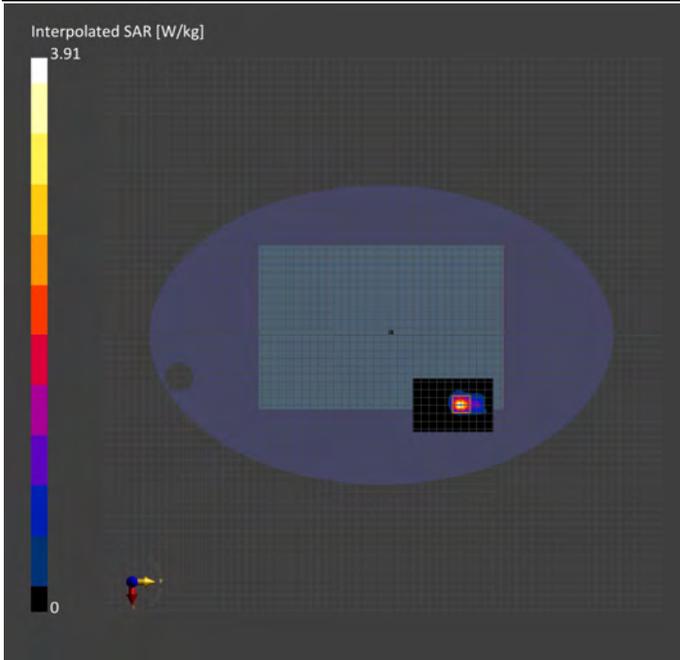
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn1665, 2022-02-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-05-24	2022-05-24
psSAR1g [W/kg]	0.722	0.781
psSAR8g [W/kg]		
psSAR10g [W/kg]	0.208	0.223
psPDab (4.0cm ² , sq) [W/m ²]		5.19
Power Drift [dB]	0.05	-0.05
M2/M1 [%]		50.6
Dist 3dB Peak [mm]		6.1



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ID: 083
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Back Surface, 0.00	6.2	6.361	33.955

Hardware Setup

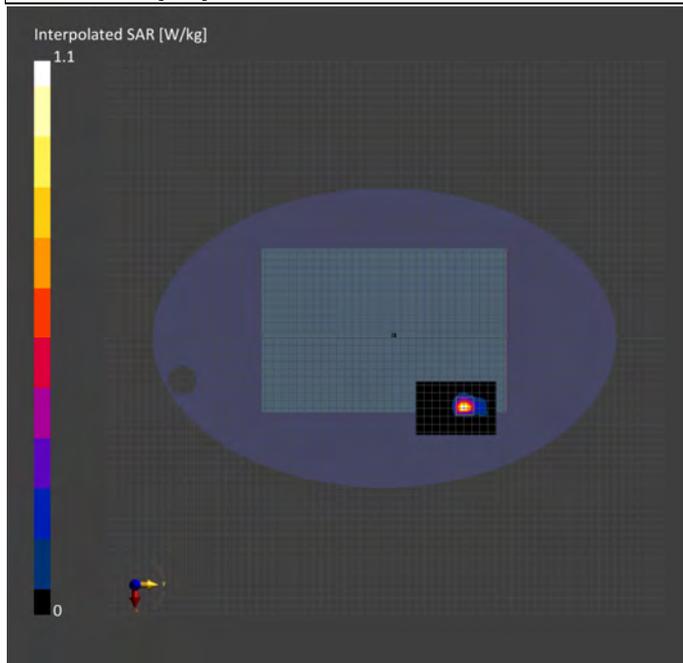
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn1665, 2022-02-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-05-24	2022-05-24
psSAR1g [W/kg]	0.768	0.803
psSAR8g [W/kg]		
psSAR10g [W/kg]	0.216	0.226
psPDab (4.0cm ² , sq) [W/m ²]		5.28
Power Drift [dB]	0.18	-0.07
M2/M1 [%]		48.6
Dist 3dB Peak [mm]		5.4



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ID: 084

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Back Surface, 0.00	6.14	6.533	33.763

Hardware Setup

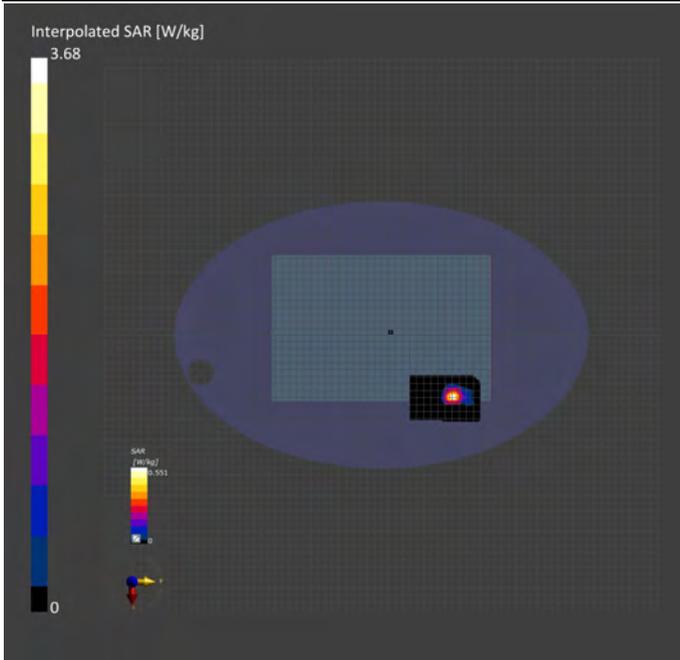
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn1665, 2022-02-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 102.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-05-24	2022-05-24
psSAR1g [W/kg]	0.646	0.666
psSAR8g [W/kg]		
psSAR10g [W/kg]	0.183	0.190
psPDab (4.0cm2, sq) [W/m2]		4.43
Power Drift [dB]	0.15	0.16
M2/M1 [%]		49.1
Dist 3dB Peak [mm]		5.4



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ID: 085

Report No. : TESA2204000084ES

 Measurement Report for B5302, Back Surface, U-NII-5,
 IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 15 (6025.0 MHz)
 Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Conversion Factor
5G	Back Surface, 2.00	1.0

Hardware Setup

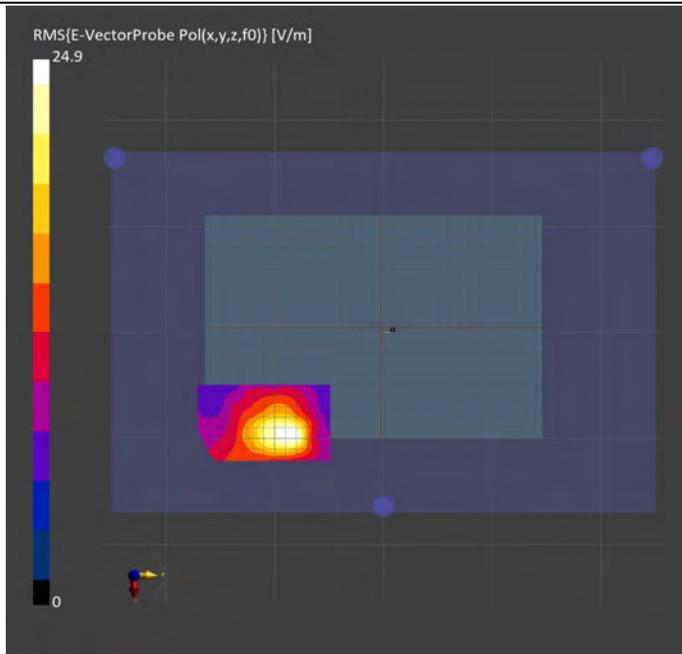
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-55GHz, 2022-01-26	DAE4 Sn1665, 2021-03-01

Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 100.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

Measurement Results

Scan Type	5G Scan
Date	2022-05-26
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	3.20
psPDtot+ [W/m ²]	6.27
psPDmod+ [W/m ²]	7.68
E _{max} [V/m]	88.8
Power Drift [dB]	-0.06



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ID: 086

Report No. : TESA2204000084ES

 Measurement Report for B5302, Back Surface, U-NII-5,
 IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 47 (6185.0 MHz)
 Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Conversion Factor
5G	Back Surface, 2.00	1.0

Hardware Setup

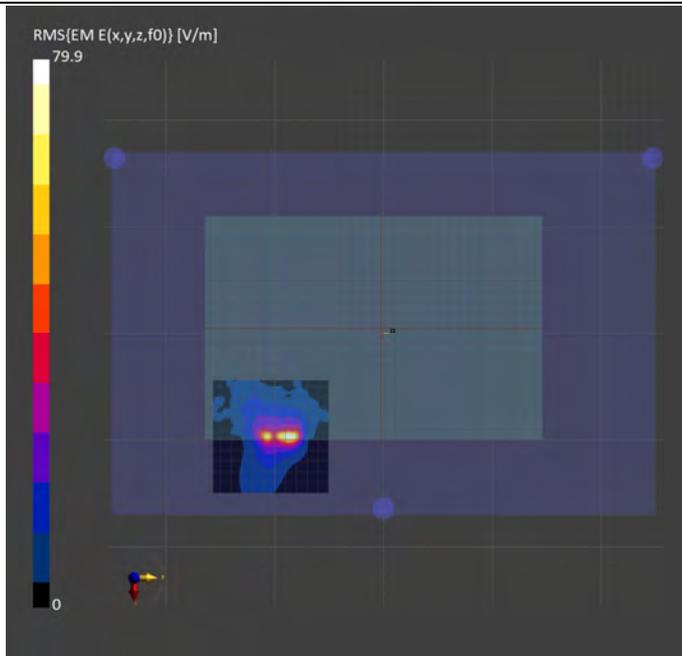
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-55GHz, 2022-01-26	DAE4 Sn1665, 2021-03-01

Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 100.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

Measurement Results

Scan Type	5G Scan
Date	2022-05-26
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	2.52
psPDtot+ [W/m ²]	5.15
psPDmod+ [W/m ²]	6.10
E _{max} [V/m]	79.9
Power Drift [dB]	0.03



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ID: 087

Report No. : TESA2204000084ES

 Measurement Report for B5302, Back Surface, U-NII-6,
 IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 111 (6505.0 MHz)

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Conversion Factor
5G	Back Surface, 2.00	1.0

Hardware Setup

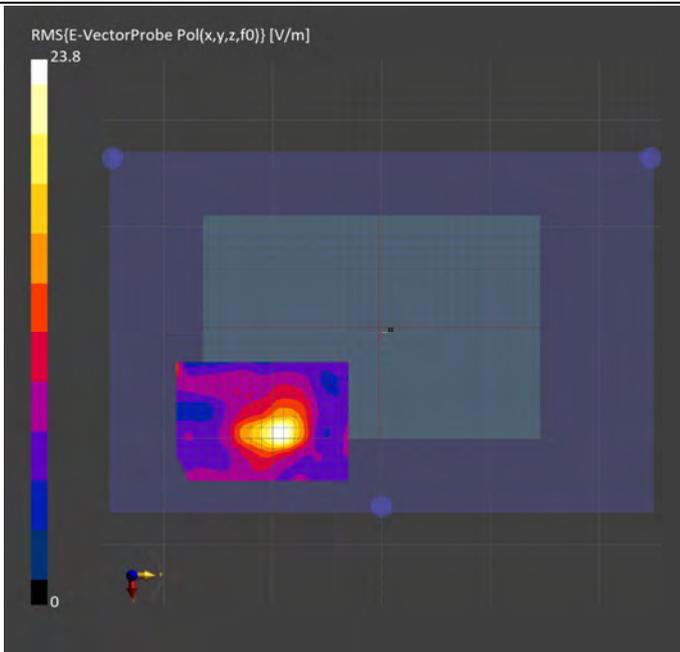
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-55GHz, 2022-01-26	DAE4 Sn1665, 2021-03-01

Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 100.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

Measurement Results

Scan Type	5G Scan
Date	2022-05-26
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	3.10
psPDtot+ [W/m ²]	5.32
psPDmod+ [W/m ²]	7.00
E _{max} [V/m]	83.7
Power Drift [dB]	-0.05



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ID: 088

Report No. : TESA2204000084ES

 Measurement Report for B5302, Back Surface, U-NII-7,
 IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 175 (6825.0 MHz)
 Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Conversion Factor
5G	Back Surface, 2.00	1.0

Hardware Setup

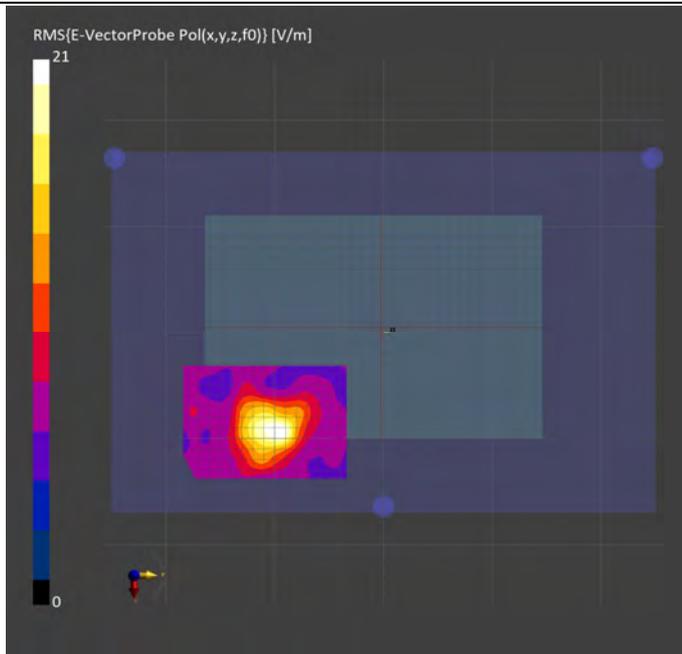
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-55GHz, 2022-01-26	DAE4 Sn1665, 2021-03-01

Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 100.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

Measurement Results

Scan Type	5G Scan
Date	2022-05-26
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	2.66
psPDtot+ [W/m ²]	4.64
psPDmod+ [W/m ²]	5.52
E _{max} [V/m]	57.7
Power Drift [dB]	0.04



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ID: 089

Report No. : TESA2204000084ES

 Measurement Report for B5302, Back Surface, U-NII-8,
 IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 207 (6985.0 MHz)

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Conversion Factor
5G	Back Surface, 2.00	1.0

Hardware Setup

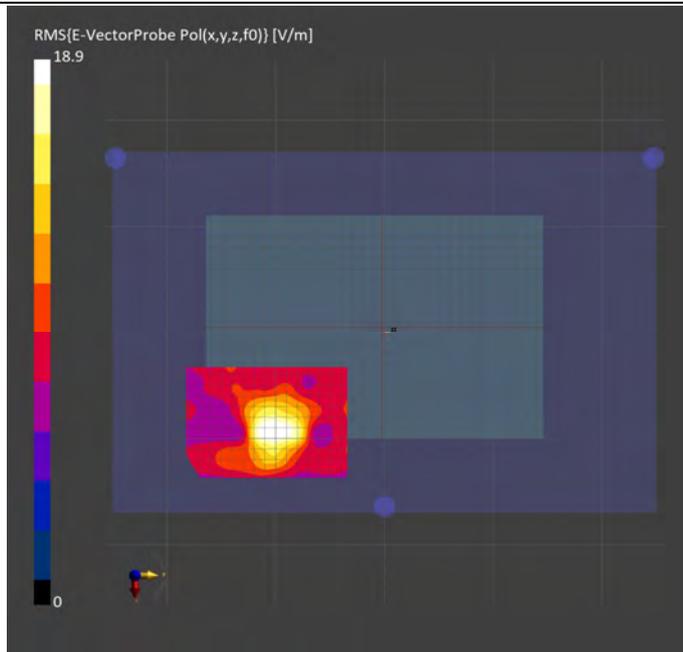
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-55GHz, 2022-01-26	DAE4 Sn1665, 2021-03-01

Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 100.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

Measurement Results

Scan Type	5G Scan
Date	2022-05-26
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	1.40
psPDtot+ [W/m ²]	3.10
psPDmod+ [W/m ²]	3.66
E _{max} [V/m]	61.3
Power Drift [dB]	0.04



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ID: 090

Report No. : TESA2204000084ES

 Measurement Report for B5302, Back Surface, U-NII-5,
 IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 15 (6025.0 MHz)
 Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Conversion Factor
5G	Back Surface, 2.00	1.0

Hardware Setup

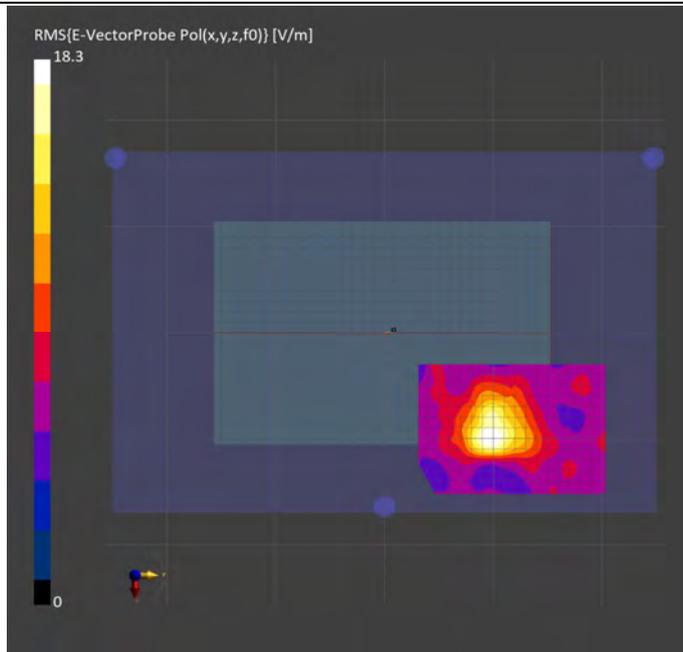
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-55GHz, 2022-01-26	DAE4 Sn1665, 2021-03-01

Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 100.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

Measurement Results

Scan Type	5G Scan
Date	2022-05-26
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	2.81
psPDtot+ [W/m ²]	4.68
psPDmod+ [W/m ²]	6.29
E _{max} [V/m]	72.1
Power Drift [dB]	0.06



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ID: 091

Report No. : TESA2204000084ES

 Measurement Report for B5302, Back Surface, U-NII-5,
 IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 47 (6185.0 MHz)

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Conversion Factor
5G	Back Surface, 2.00	1.0

Hardware Setup

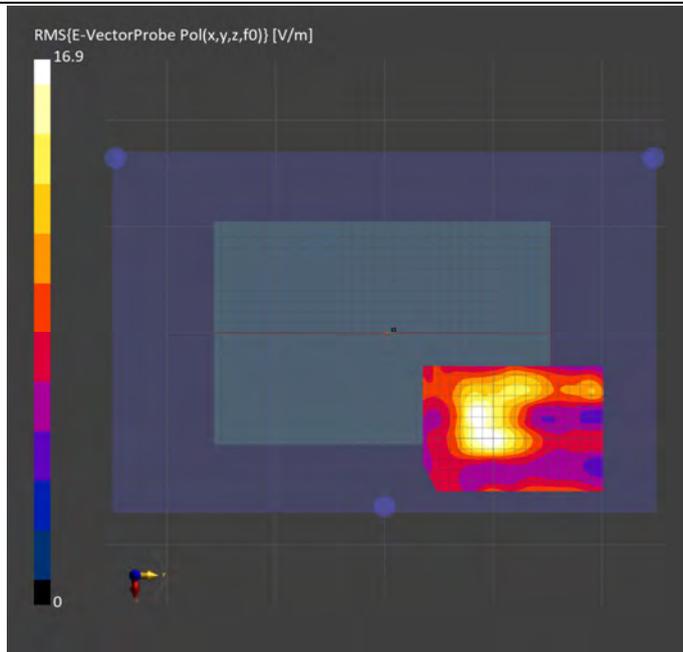
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-55GHz, 2022-01-26	DAE4 Sn1665, 2021-03-01

Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 100.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

Measurement Results

Scan Type	5G Scan
Date	2022-05-26
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	2.11
psPDtot+ [W/m ²]	3.95
psPDmod+ [W/m ²]	4.91
E _{max} [V/m]	65.9
Power Drift [dB]	0.06



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ID: 092

Report No. : TESA2204000084ES

 Measurement Report for B5302, Back Surface, U-NII-6,
 IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 111 (6505.0 MHz)

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Conversion Factor
5G	Back Surface, 2.00	1.0

Hardware Setup

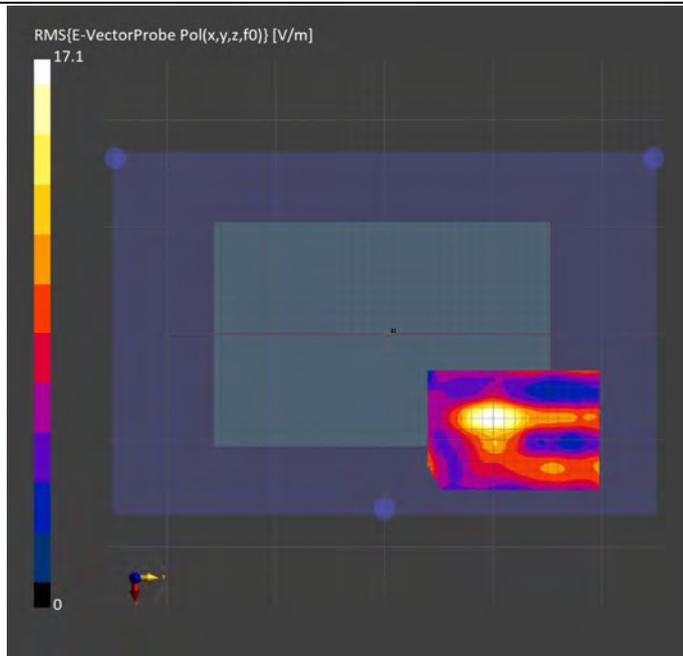
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-55GHz, 2022-01-26	DAE4 Sn1665, 2021-03-01

Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 100.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

Measurement Results

Scan Type	5G Scan
Date	2022-05-26
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	1.97
psPDtot+ [W/m ²]	4.01
psPDmod+ [W/m ²]	4.83
E _{max} [V/m]	61.4
Power Drift [dB]	-0.03



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ID: 093

Report No. : TESA2204000084ES

 Measurement Report for B5302, Back Surface, U-NII-7,
 IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 175 (6825.0 MHz)

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Conversion Factor
5G	Back Surface, 2.00	1.0

Hardware Setup

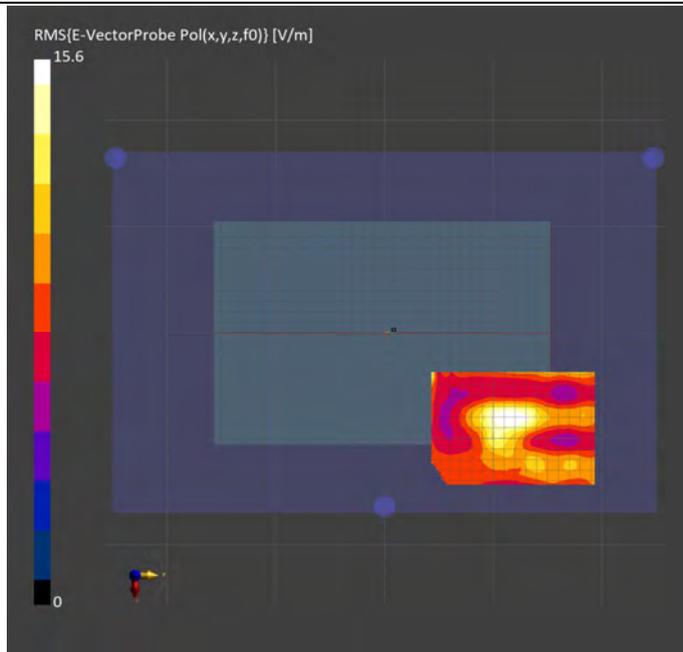
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-55GHz, 2022-01-26	DAE4 Sn1665, 2021-03-01

Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 100.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

Measurement Results

Scan Type	5G Scan
Date	2022-05-26
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	1.75
psPDtot+ [W/m ²]	3.81
psPDmod+ [W/m ²]	4.59
E _{max} [V/m]	64.6
Power Drift [dB]	-0.01



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ID: 094

Report No. : TESA2204000084ES

 Measurement Report for B5302, Back Surface, U-NII-8,
 IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 207 (6985.0 MHz)

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Conversion Factor
5G	Back Surface, 2.00	1.0

Hardware Setup

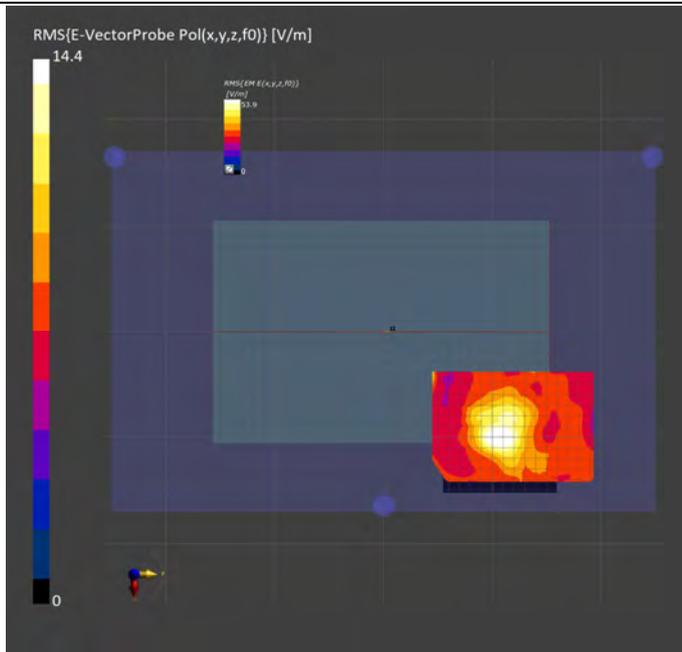
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-55GHz, 2022-01-26	DAE4 Sn1665, 2021-03-01

Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 100.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

Measurement Results

Scan Type	5G Scan
Date	2022-05-26
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	1.31
psPDtot+ [W/m ²]	2.99
psPDmod+ [W/m ²]	3.50
E _{max} [V/m]	53.9
Power Drift [dB]	-0.01



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ID: 095

Report No. : TESA2204000084ES

**Measurement Report for Device, Back Surface, U-NII-5,
IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 15 (6025.0 MHz)_ Main
Exposure Conditions**

Phantom Section	Position, Test Distance [mm]	Conversion Factor
5G	Back Surface, 2.00	1.0

Hardware Setup

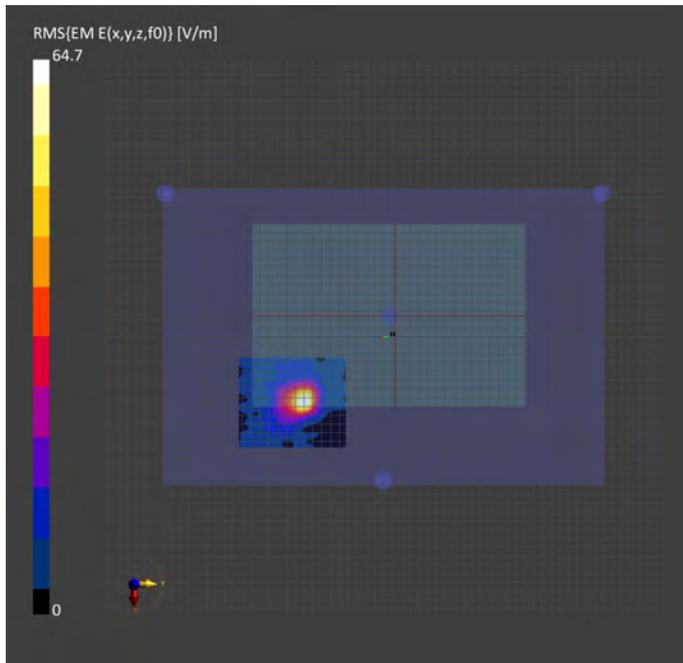
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-55GHz, 2022-01-26	DAE4 Sn1665, 2022-02-28

Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 100.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

Measurement Results

Scan Type	5G Scan
Date	2022-05-25
Avg. Area [cm ²]	1.00
psPDn+ [W/m ²]	5.27
psPDtot+ [W/m ²]	5.56
psPDmod+ [W/m ²]	6.86
E _{max} [V/m]	64.7
Power Drift [dB]	-0.13



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ID: 096

Report No. : TESA2204000084ES

**Measurement Report for Device, Back Surface, U-NII-5,
IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 47 (6185.0 MHz)_ Main**
Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Conversion Factor
5G	Back Surface, 2.00	1.0

Hardware Setup

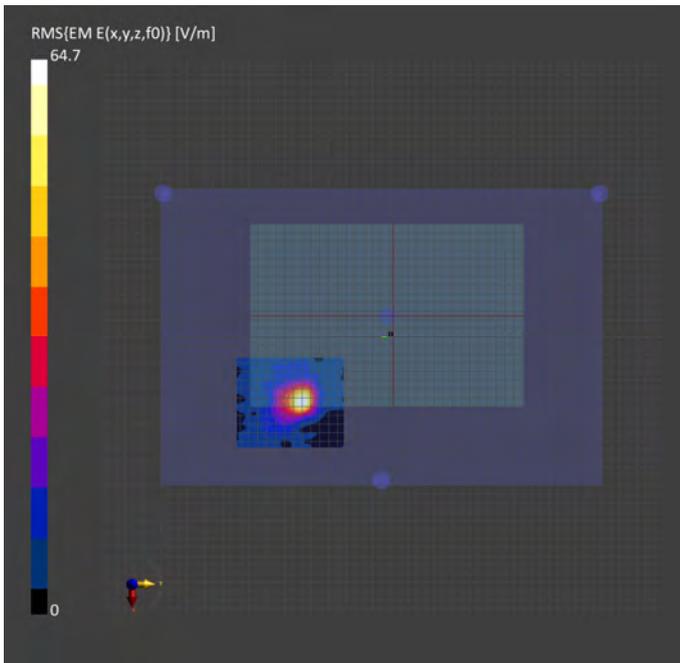
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-55GHz, 2022-01-26	DAE4 Sn1665, 2022-02-28

Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 120.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

Measurement Results

Scan Type	5G Scan
Date	2022-05-25
Avg. Area [cm ²]	1.00
psPDn+ [W/m ²]	2.79
psPDtot+ [W/m ²]	3.08
psPDmod+ [W/m ²]	4.14
E _{max} [V/m]	55.6
Power Drift [dB]	0.05



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ID: 097

Report No. : TESA2204000084ES

 Measurement Report for Device, Back Surface, U-NII-6,
 IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 111 (6505.0 MHz)_Main

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Conversion Factor
5G	Back Surface, 2.00	1.0

Hardware Setup

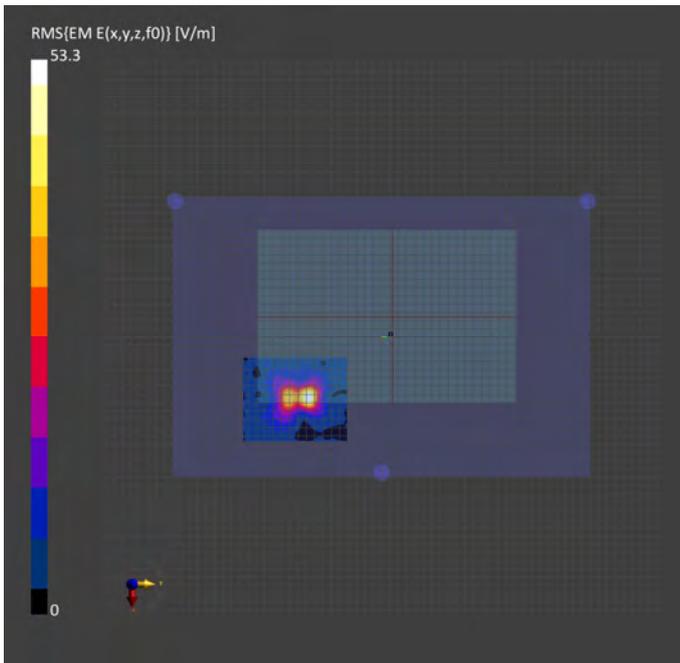
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-55GHz, 2022-01-26	DAE4 Sn1665, 2022-02-28

Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 120.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

Measurement Results

Scan Type	5G Scan
Date	2022-05-25
Avg. Area [cm ²]	1.00
psPDn+ [W/m ²]	2.53
psPDtot+ [W/m ²]	2.77
psPDmod+ [W/m ²]	3.80
E _{max} [V/m]	53.3
Power Drift [dB]	0.11



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ID: 098

Report No. : TESA2204000084ES

 Measurement Report for Device, Back Surface, U-NII-7,
 IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 143 (6665.0 MHz)_Main

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Conversion Factor
5G	Back Surface, 2.00	1.0

Hardware Setup

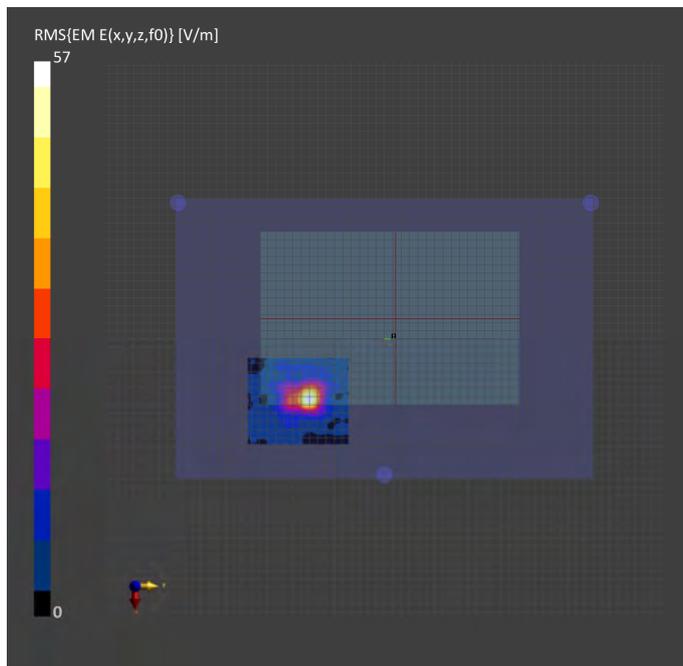
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-55GHz, 2022-01-26	DAE4 Sn1665, 2022-02-28

Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 120.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

Measurement Results

Scan Type	5G Scan
Date	2022-05-25
Avg. Area [cm ²]	1.00
psPDn+ [W/m ²]	4.18
psPDtot+ [W/m ²]	4.58
psPDmod+ [W/m ²]	5.39
E _{max} [V/m]	57.0
Power Drift [dB]	0.17



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ID: 099

Report No. : TESA2204000084ES

**Measurement Report for Device, Back Surface, U-NII-8,
IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 207 (6985.0 MHz)_Main**
Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Conversion Factor
5G	Back Surface, 2.00	1.0

Hardware Setup

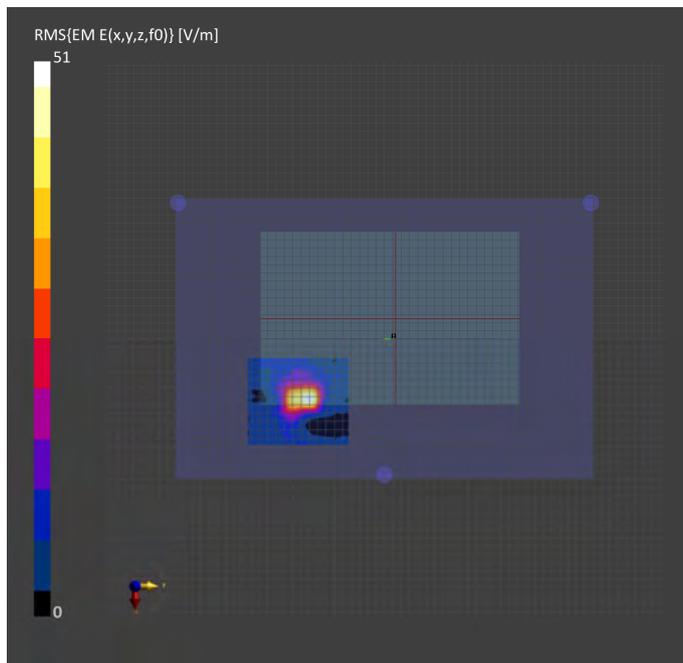
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-55GHz, 2022-01-26	DAE4 Sn1665, 2022-02-28

Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 120.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

Measurement Results

Scan Type	5G Scan
Date	2022-05-25
Avg. Area [cm ²]	1.00
psPDn+ [W/m ²]	2.89
psPDtot+ [W/m ²]	3.05
psPDmod+ [W/m ²]	3.56
E _{max} [V/m]	51.0
Power Drift [dB]	0.14



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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

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ID: 100

Report No. : TESA2204000084ES

**Measurement Report for Device, Back Surface, U-NII-5,
IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 47 (6185.0 MHz)_Aux**
Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Conversion Factor
5G	Back Surface, 2.00	1.0

Hardware Setup

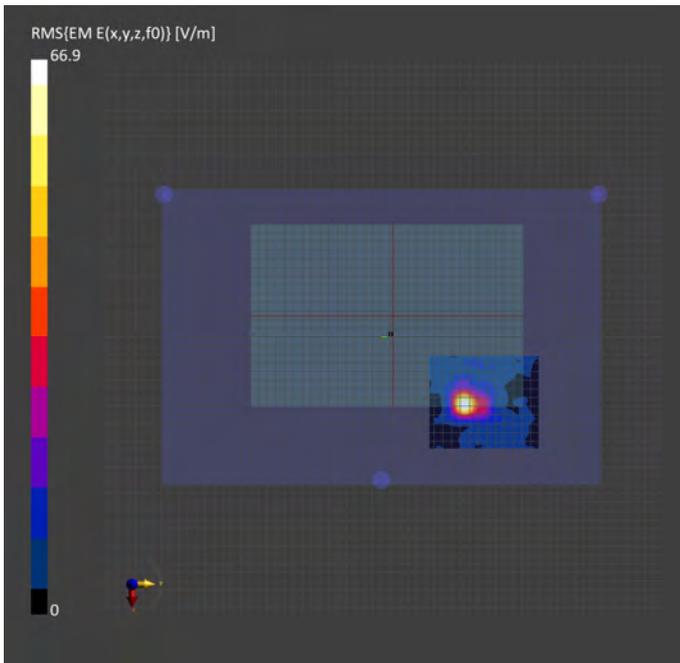
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-55GHz, 2022-01-26	DAE4 Sn1665, 2022-02-28

Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 120.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

Measurement Results

Scan Type	5G Scan
Date	2022-05-17, 08:25
Avg. Area [cm ²]	1.00
psPDn+ [W/m ²]	3.45
psPDtot+ [W/m ²]	3.76
psPDmod+ [W/m ²]	6.69
E _{max} [V/m]	66.9
Power Drift [dB]	0.16



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ID: 101

Report No. : TESA2204000084ES

**Measurement Report for Device, Back Surface, U-NII-5,
IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 79 (6345.0 MHz)_Aux**
Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Conversion Factor
5G	Back Surface, 2.00	1.0

Hardware Setup

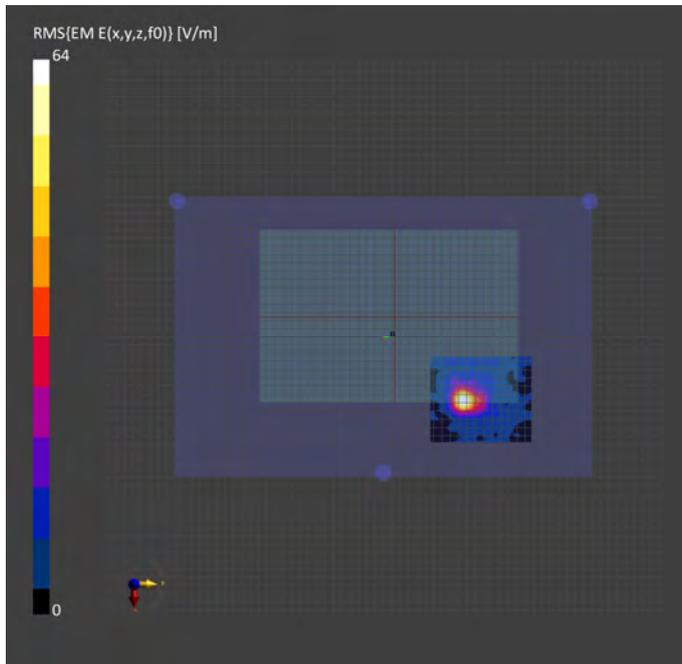
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-55GHz, 2022-01-26	DAE4 Sn1665, 2022-02-28

Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 120.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

Measurement Results

Scan Type	5G Scan
Date	2022-05-25
Avg. Area [cm ²]	1.00
psPDn+ [W/m ²]	3.78
psPDtot+ [W/m ²]	4.16
psPDmod+ [W/m ²]	6.35
E _{max} [V/m]	64.0
Power Drift [dB]	-0.12



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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

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ID: 102

Report No. : TESA2204000084ES

 Measurement Report for Device, Back Surface, U-NII-6,
 IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 111 (6505.0 MHz)_Aux

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Conversion Factor
5G	Back Surface, 2.00	1.0

Hardware Setup

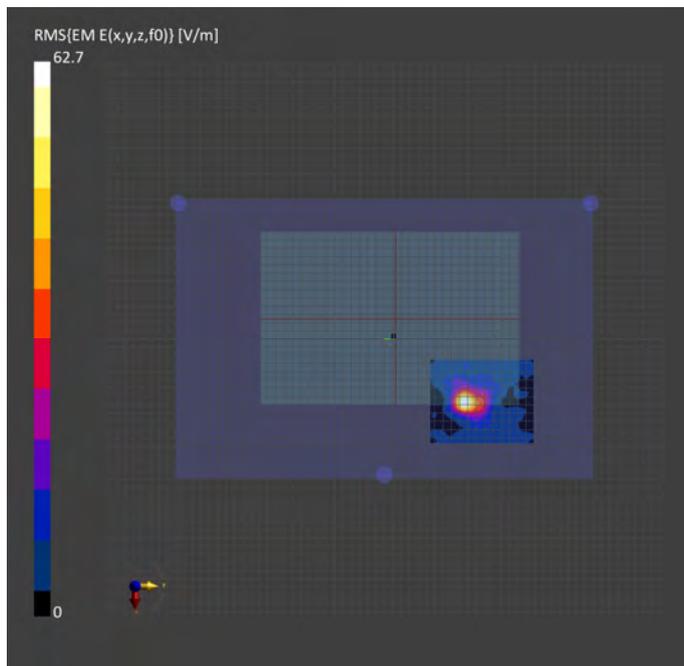
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-55GHz, 2022-01-26	DAE4 Sn1665, 2022-02-28

Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 120.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

Measurement Results

Scan Type	5G Scan
Date	2022-05-25
Avg. Area [cm ²]	1.00
psPDn+ [W/m ²]	3.68
psPDtot+ [W/m ²]	4.18
psPDmod+ [W/m ²]	5.96
E _{max} [V/m]	62.7
Power Drift [dB]	-0.10



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ID: 103

Report No. : TESA2204000084ES

**Measurement Report for Device, Back Surface, U-NII-7,
IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 175 (6825.0 MHz)_Aux**
Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Conversion Factor
5G	Back Surface, 2.00	1.0

Hardware Setup

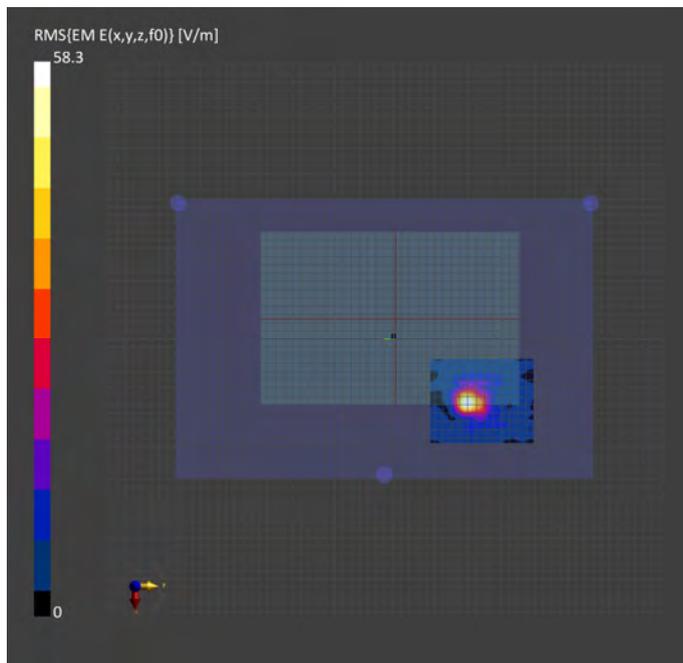
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-55GHz, 2022-01-26	DAE4 Sn1665, 2022-02-28

Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 120.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

Measurement Results

Scan Type	5G Scan
Date	2022-05-25
Avg. Area [cm ²]	1.00
psPDn+ [W/m ²]	3.77
psPDtot+ [W/m ²]	4.15
psPDmod+ [W/m ²]	5.32
E _{max} [V/m]	58.3
Power Drift [dB]	0.09



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f (886-2) 2298-0488

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ID: 104

Report No. : TESA2204000084ES

Measurement Report for Device, Back Surface, U-NII-8,
IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), Channel 207 (6985.0 MHz)_Aux

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Conversion Factor
5G	Back Surface, 2.00	1.0

Hardware Setup

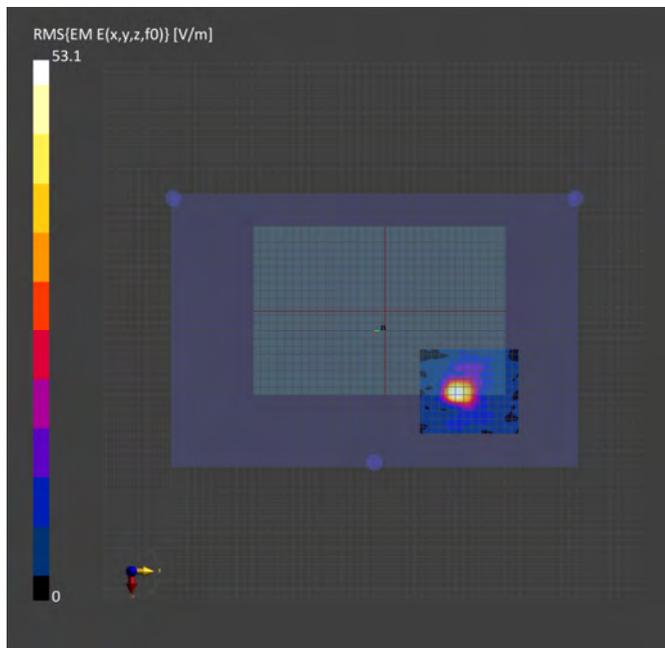
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave - 1076	Air -	EUmmWV3 - SN9399_F1-55GHz, 2022-01-26	DAE4 Sn1665, 2022-02-28

Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	100.0 x 120.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0

Measurement Results

Scan Type	5G Scan
Date	2022-05-25
Avg. Area [cm ²]	1.00
psPDn+ [W/m ²]	3.90
psPDtot+ [W/m ²]	4.19
psPDmod+ [W/m ²]	5.02
E _{max} [V/m]	53.1
Power Drift [dB]	0.11



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6. SAR System Performance Verification

Date: 2022/5/20

Report No. : TESA2204000084ES

Dipole 2450 MHz_SN:727

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

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.832$ S/m; $\epsilon_r = 39.074$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.32, 8.32, 8.32); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 18.5 W/kg

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

Reference Value = 99.75 V/m; Power Drift = -0.05 dB

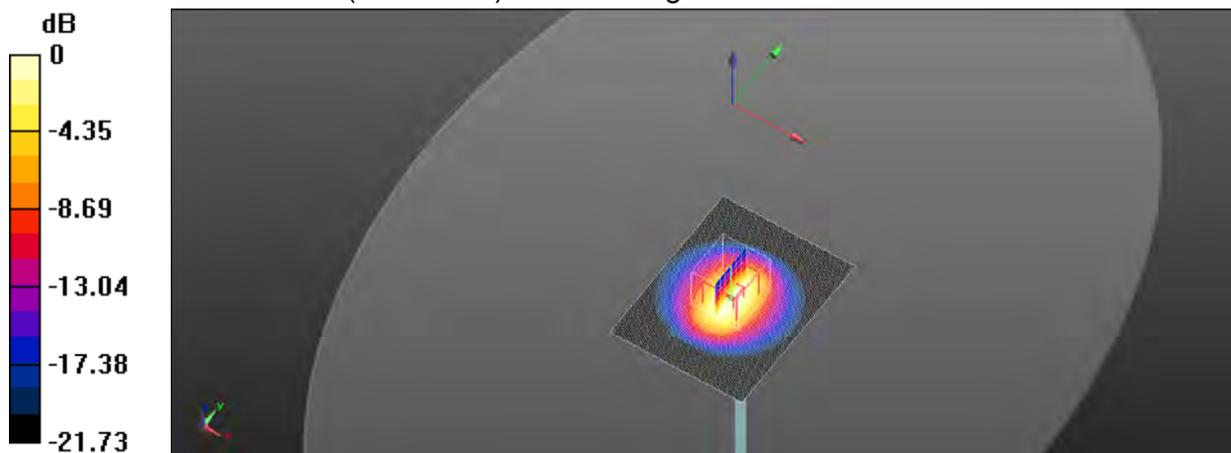
Peak SAR (extrapolated) = 23.4 W/kg

SAR(1 g) = 13.5 W/kg; SAR(10 g) = 6.34 W/kg

Smallest distance from peaks to all points 3 dB below = 9.5 mm

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

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



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

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Date: 2022/5/21

Report No. : TESA2204000084ES

Dipole 5250 MHz_SN:1023

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

Medium parameters used: $f = 5250 \text{ MHz}$; $\sigma = 4.719 \text{ S/m}$; $\epsilon_r = 35.803$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 21.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.81, 5.81, 5.81); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 11.3 W/kg

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

Reference Value = 47.12 V/m; Power Drift = 0.01 dB

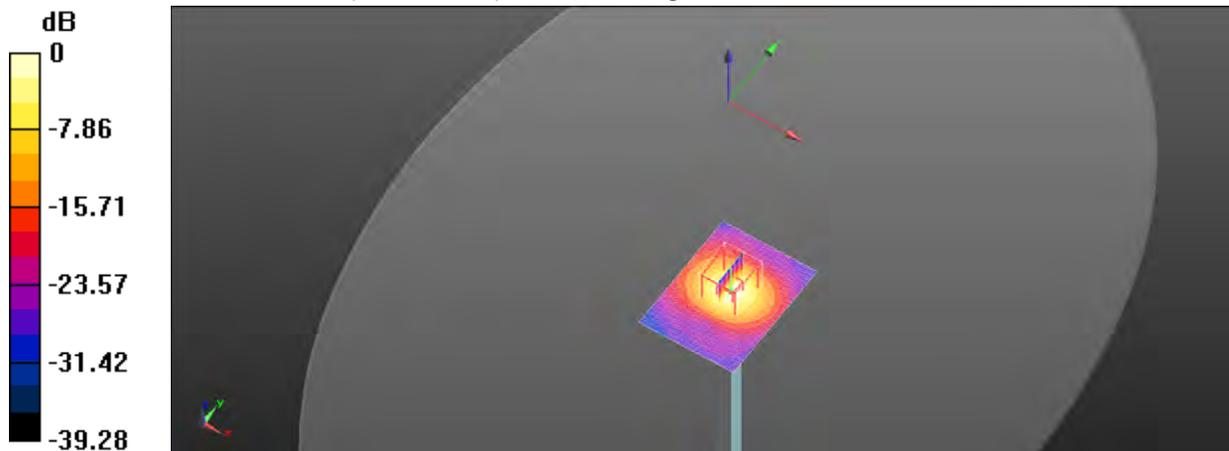
Peak SAR (extrapolated) = 20.3 W/kg

SAR(1 g) = 8.21 W/kg; SAR(10 g) = 2.33 W/kg

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

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

Maximum value of SAR (measured) = 10.9 W/kg



0 dB = 10.9 W/kg = 10.37 dBW/kg

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Date: 2022/5/22

Report No. : TESA2204000084ES

Dipole 5600 MHz_SN:1023

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

Medium parameters used: $f = 5600$ MHz; $\sigma = 5.079$ S/m; $\epsilon_r = 35.403$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.16, 5.16, 5.16); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 12.5 W/kg

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

Reference Value = 48.38 V/m; Power Drift = 0.02 dB

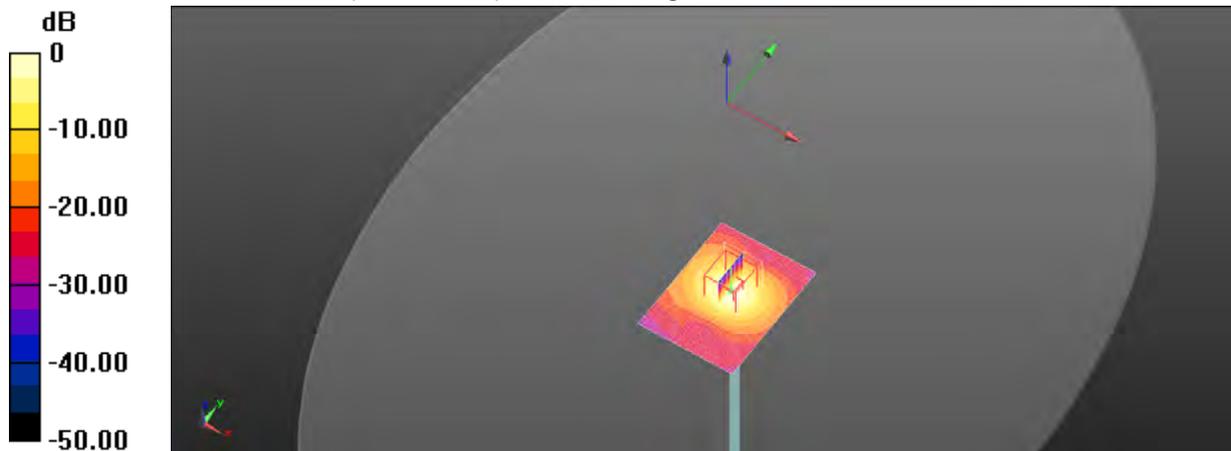
Peak SAR (extrapolated) = 25.6 W/kg

SAR(1 g) = 8.52 W/kg; SAR(10 g) = 2.45 W/kg

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

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

Maximum value of SAR (measured) = 11.4 W/kg



0 dB = 11.4 W/kg = 10.57 dBW/kg

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Date: 2022/5/23

Report No. : TESA2204000084ES

Dipole 5750 MHz_SN:1023

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

Medium parameters used: $f = 5750 \text{ MHz}$; $\sigma = 5.233 \text{ S/m}$; $\epsilon_r = 35.231$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.3, 5.3, 5.3); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 12.1 W/kg

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

Reference Value = 43.72 V/m; Power Drift = -0.04 dB

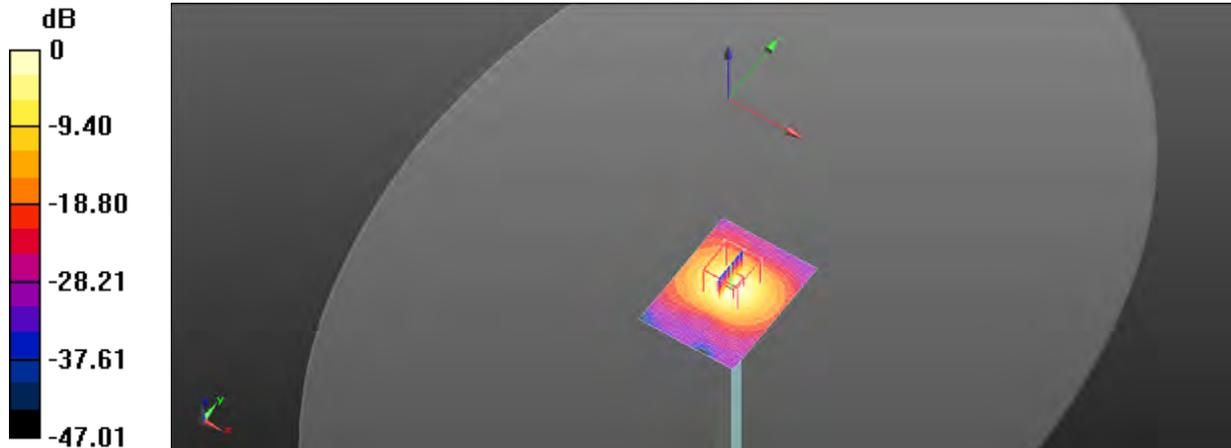
Peak SAR (extrapolated) = 23.5 W/kg

SAR(1 g) = 8.23 W/kg; SAR(10 g) = 2.32 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 52.1%

Maximum value of SAR (measured) = 11.5 W/kg



0 dB = 11.5 W/kg = 10.59 dBW/kg

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Report No. : TESA2204000084ES
Measurement Report for Device, FRONT, Validation band,
CW, Channel 6500 (6500.0 MHz)_SN:1006
Ambient temperature: 22.7; Liquid temperature: 22.1
Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 0.00	6.2	6.015	34.345

Hardware Setup

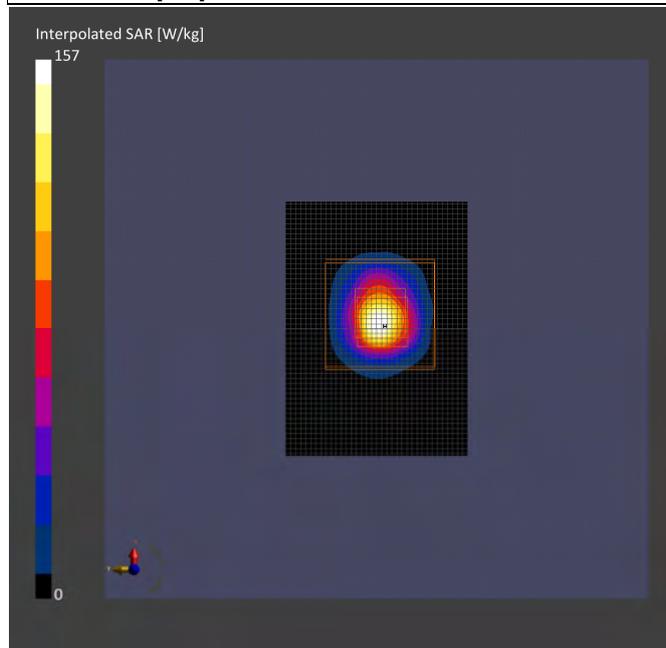
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn1665, 2022-02-28

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	51.0 x 36.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 6.0	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-05-24	2022-05-24
psSAR1g [W/kg]	22.5	26.9
psSAR8g [W/kg]		
psSAR10g [W/kg]	4.61	4.97
psPDab (4.0cm ² , sq) [W/m ²]		121
Power Drift [dB]	0.05	-0.00
M2/M1 [%]		53.6
Dist 3dB Peak [mm]		5.0



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Report No. : TESA2204000084ES

Dipole 7000 MHz_SN:1007

 Measurement Report for Device, FRONT, Validation band,
 CW, Channel 7000 (7000.0 MHz)_SN:1007

Ambient temperature: 22.7; Liquid temperature: 22.1

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 0.00	6.14	6.549	33.745

Hardware Setup

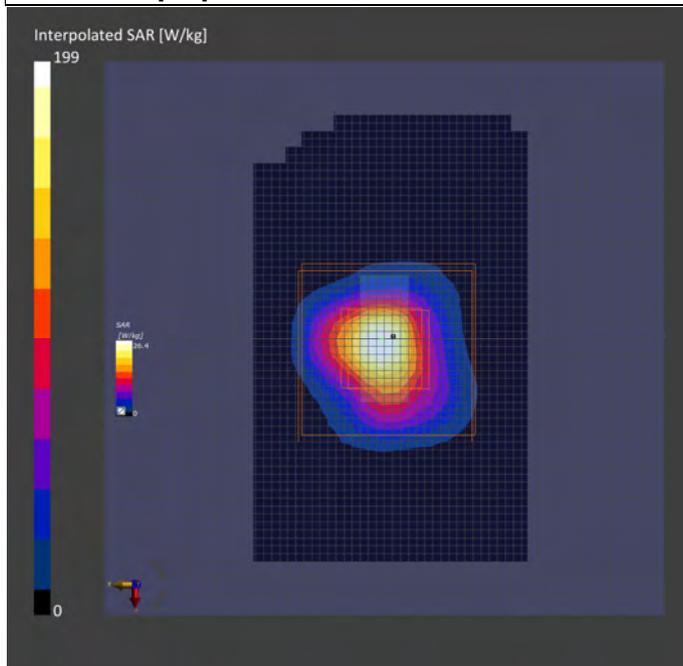
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V5.0 (20deg probe tilt) - 1141	EX3DV4 - SN7686, 2021-10-05	DAE4 Sn1665, 2021-03-01

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	60.0 x 36.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	7.5 x 6.0	3.0 x 3.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2022-05-24	2022-05-24
psSAR1g [W/kg]	26.8	28.4
psSAR8g [W/kg]		
psSAR10g [W/kg]	5.25	5.04
psPDab (4.0cm2, sq) [W/m2]		128
Power Drift [dB]	-0.03	0.05
M2/M1 [%]		49.5
Dist 3dB Peak [mm]		4.8



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7.Uncertainty Budget

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

A	c	D	e		f	g	h=c * f / e	i=c * g / e	k
Source of Uncertainty	Tolerance/ Uncertainty	Probability Distributio	Div	Div Value	ci (1g)	ci (10g)	Standard uncertainty	Standard uncertainty	vi, or Veff
Measurement system									
Probe calibration	6.55%	N	1	1	1	1	6.55%	6.55%	∞
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 - noise	3.00%	R	√3	1.732	1	1	1.73%	1.73%	∞
RF ambient conditions - reflections	3.00%	R	√3	1.732	1	1	1.73%	1.73%	∞
Probe positioner Mechanical restrictions	0.40%	R	√3	1.732	1	1	0.23%	0.23%	∞
Probe Positioning with respect to phantom shell	2.90%	R	√3	1.732	1	1	1.67%	1.67%	∞
Post-processing	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Max SAR Eval	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Test Sample related									
Test sample positioning	2.90%	N	1	1	1	1	2.90%	2.90%	M-1
Device Holder Uncertainty	3.60%	N	1	1	1	1	3.60%	3.60%	M-1
Drift of output power	5.00%	R	√3	1.732	1	1	2.89%	2.89%	∞
Phantom and Setup									
Phantom Uncertainty	4.00%	R	√3	1.732	1	1	2.31%	2.31%	∞
Liquid permittivity (mea.)	0.43%	N	1	1	0.64	0.43	0.28%	0.18%	M
Liquid Conductivity (mea.)	0.26%	N	1	1	0.6	0.49	0.16%	0.13%	M
Combined standard uncertainty		RSS					11.72%	11.71%	
Expant uncertainty (95% confidence interval), K=2							23.44%	23.42%	

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

A	c	D	e		f	g	h=c * f / e	i=c * g / e	k
Source of Uncertainty	Tolerance/ Uncertainty	Probability Distributio	Div	Div Value	ci (1g)	ci (10g)	Standard uncertainty	Standard uncertainty	vi, or Veff
Measurement system									
Probe calibration	6.00%	N	1	1	1	1	6.00%	6.00%	∞
<i>Isotropy, Axial</i>	3.50%	R	$\sqrt{3}$	1.732	1	1	2.02%	2.02%	∞
<i>Isotropy, Hemispherical</i>	9.60%	R	$\sqrt{3}$	1.732	1	1	5.54%	5.54%	∞
Modulation Response	2.40%	R	$\sqrt{3}$	1.732	1	1	1.40%	1.40%	∞
Boundary Effect	1.00%	R	$\sqrt{3}$	1.732	1	1	0.58%	0.58%	∞
Linearity	4.70%	R	$\sqrt{3}$	1.732	1	1	2.71%	2.71%	∞
Detection Limits	1.00%	R	$\sqrt{3}$	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	$\sqrt{3}$	1.732	1	1	0.46%	0.46%	∞
Integration Time	2.60%	R	$\sqrt{3}$	1.732	1	1	1.50%	1.50%	∞
Measurement drift (class A evaluation)									
RF ambient condition - noise	3.00%	R	$\sqrt{3}$	1.732	1	1	1.73%	1.73%	∞
RF ambient conditions - reflections	3.00%	R	$\sqrt{3}$	1.732	1	1	1.73%	1.73%	∞
Probe positioner Mechanical restrictions	0.40%	R	$\sqrt{3}$	1.732	1	1	0.23%	0.23%	∞
Probe Positioning with respect to phantom shell	2.90%	R	$\sqrt{3}$	1.732	1	1	1.67%	1.67%	∞
Post-processing	1.00%	R	$\sqrt{3}$	1.732	1	1	0.58%	0.58%	∞
Max SAR Eval	1.00%	R	$\sqrt{3}$	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	$\sqrt{3}$	1.732	1	1	2.89%	2.89%	∞
Phantom and Setup									
Phantom Uncertainty	4.00%	R	$\sqrt{3}$	1.732	1	1	2.31%	2.31%	∞
Liquid permittivity (mea.)	0.32%	N	1	1	0.64	0.43	0.20%	0.14%	M
Liquid Conductivity (mea.)	1.87%	N	1	1	0.6	0.49	1.12%	0.92%	M
Combined standard uncertainty		RSS					11.47%	11.45%	
Expan uncertainty (95% confidence interval), K=2							22.95%	22.89%	

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DASY6 Uncertainty Budget
According to IEC/IEEE 62209-1528
(Frequency band: 6GHz - 10GHz range)

a	b	c	d		e	e	f=b * e / d	f=b * e / d
Source of Uncertainty	Uncertainty Value (±%)	Probability Distribution	Div.	Div. Value	(ci) 1g	(ci) 10g	Std. uncertainty (1g) (±%)	Std. uncertainty (10g) (±%)
Measurement system errors								
Probe calibration	18.6	N	2	2	1	1	9.3	9.3
Probe Calibration Drift	1.7	R	√3	1.732	1	1	1.0	1.0
Probe Linearity	4.7	R	√3	1.732	1	1	2.7	2.7
Broadband Signal	2.8	R	√3	1.732	1	1	1.6	1.6
Probe Isotropy	7.6	R	√3	1.732	1	1	4.4	4.4
Data Acquisition	0.3	N	1	1	1	1	0.3	0.3
RF Ambient	1.8	N	1	1	1	1	1.8	1.8
Probe positioning	0.2	N	1	1	0.67	0.67	0.1	0.1
Data Processing	3.5	N	1	1	1	1	3.5	3.5
Phantom and device errors								
Conductivity (meas.)DAK	2.5	N	1	1	0.78	0.71	2.0	1.8
Conductivity (temp.)BB	2.4	R	√3	1.732	0.78	0.71	1.1	1.0
Phantom Permittivity	14.0	R	√3	1.732	0.5	0.5	4.0	4.0
Distance DUT - TSL	2.0	N	1	1	2	2	4.0	4.0
Device Positioning (±0.5mm)	1.0	N	1	1	1	1	1.0	1.0
Device Holder	3.6	N	1	1	1	1	3.6	3.6
DUT Modulationm	2.4	R	√3	1.732	1	1	1.4	1.4
Time-average SAR	0.0	R	√3	1.732	1	1	0.0	0.0
DUT drift	2.5	N	1	1	1	1	2.5	2.5
Val Antenna Unc.	0.0	N	1	1	1	1	0.0	0.0
Unc. Input Power	0.0	N	1	1	1	1	0.0	0.0
Correction to the SAR results								
Deviation to Target	1.90	N	1	1	1	0.84	1.9	1.6
SAR scaling	1.018	R	√3	1.732	1	1	0.6	0.6
Combined Std. uncertainty							14.0	13.9
Expanded Std. uncertainty (95% confidence interval), K=2							28.0	27.8

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**cDASY6 Module mmWave Uncertainty Budget for PD
Evaluation Distances to the Antennas $\geq \lambda/5$
In Compliance with IEC/IEEE 63195**

a	b	c	d		e	f=b * e / d	g
Source of Uncertainty	Uncertainty Value (+dB)	Probability Distribution	Div.	Div. Value	ci	Std. uncertainty (+dB)	(vi) Veff
Uncertainty terms dependent on the measurement system							
Probe calibration	0.49	N	1	1	1	0.49	∞
Probe correction	0.00	R	$\sqrt{3}$	1.732	1	0.00	∞
Frequency response ($BW \leq 1\text{GHz}$)	0.20	R	$\sqrt{3}$	1.732	1	0.12	∞
Sensor cross coupling	0.00	R	$\sqrt{3}$	1.732	1	0.00	∞
Isotropy	0.50	R	$\sqrt{3}$	1.732	1	0.29	∞
Linearity	0.20	R	$\sqrt{3}$	1.732	1	0.12	∞
Probe scattering	0.00	R	$\sqrt{3}$	1.732	1	0.00	∞
Probe positioning offset	0.30	R	$\sqrt{3}$	1.732	1	0.17	∞
Probe positioning repeatability	0.04	R	$\sqrt{3}$	1.732	1	0.02	∞
Sensor mechanical offset	0.00	R	$\sqrt{3}$	1.732	1	0.00	∞
Probe spatial resolution	0.00	R	$\sqrt{3}$	1.732	1	0.00	∞
Field impedance dependance	0.00	R	$\sqrt{3}$	1.732	1	0.00	∞
Amplitude and phase drift	0.00	R	$\sqrt{3}$	1.732	1	0.00	∞
Amplitude and phase noise	0.04	R	$\sqrt{3}$	1.732	1	0.02	∞
Measurement area truncation	0.00	R	$\sqrt{3}$	1.732	1	0.00	∞
Data acquisition	0.03	N	1	1	1	0.03	∞
Sampling	0.00	R	$\sqrt{3}$	1	1	0.00	∞
Field reconstruction	2.00	R	$\sqrt{3}$	1.732	1	1.15	∞
Forward transformation	0.00	R	$\sqrt{3}$	1.732	1	0.00	∞
Power density scaling	-	R	$\sqrt{3}$	1.732	1	-	∞
Spatial averaging	0.10	R	$\sqrt{3}$	1.732	1	0.06	∞
System detection limit	0.04	R	$\sqrt{3}$	1.732	1	0.02	∞
Uncertainty terms dependent on the DUT and environmental factors							
Probe coupling with DUT	0.00	R	$\sqrt{3}$	1.732	1	0.00	∞
Modulation response	0.40	R	$\sqrt{3}$	1.732	1	0.23	∞
Integration time	0.00	R	$\sqrt{3}$	1.732	1	0.00	∞
Response time	0.00	R	$\sqrt{3}$	1.732	1	0.00	∞
Device holder influence	0.10	R	$\sqrt{3}$	1.732	1	0.06	∞
DUT alignment	0.00	R	$\sqrt{3}$	1.732	1	0.00	∞
RF ambient conditions	0.04	R	$\sqrt{3}$	1.732	1	0.02	∞
Ambient reflections	0.04	R	$\sqrt{3}$	1.732	1	0.02	∞
Immunity / secondary reception	0.00	R	$\sqrt{3}$	1.732	1	0.00	∞
Drift of the DUT	-	R	$\sqrt{3}$	1.732	1	-	∞
Combined Std. uncertainty						1.33	
Expanded Std. uncertainty (95% confidence interval), K=2						2.67	

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Appendixes

Refer to separated files for the following appendixes.

TESA2204000084ES SAR_Appendix A Photographs

TESA2204000084ES SAR_Appendix B DAE & Probe Cal. Certificate

TESA2204000084ES SAR_Appendix C Phantom Description & Dipole Cal. Certificate

- End of Report -

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