

RF Exposure report



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

Product Name Convertible PC
Brand Name HP
Model No. TPN-C158
Applicant HP Inc.
 1501 Page Mill Road, Palo Alto, CA 94304, USA
Standards IEEE/ANSI C95.1-1992, IEEE 1528-2013
FCC ID B94-MT7922A22MB
Date of Receipt Dec. 10, 2021
Date of Test(s) Dec. 24, 2021 ~ Jan. 20, 2022
Date of Issue Jan. 25, 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 / Afu Chen	Approved By / John Yeh

Date: Jan. 25, 2022

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
EN/2021/C0024	Rev.00	Initial creation of document	Jan. 25, 2022	Kimmy Chiou	

Note:

1. 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

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

1.2 Details of Applicant

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

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1.3 Description of EUT

General Information of Host:

Product Name	Convertible PC	
Brand Name	HP	
Model No.	TPN-C158	
Integrated Module	Brand Name: MediaTek Model Name: MT7922A22M	
FCC ID	B94-MT7922A22MB	
Mode of Operation	<input checked="" type="checkbox"/> WLAN802.11 <input checked="" type="checkbox"/> Bluetooth	
Duty Cycle	WLAN802.11	Refer to page 34-36
	Bluetooth	75.5%
TX Frequency Range (MHz)	WLAN	2412 ~ 2472, 5180 ~ 5320, 5500 ~ 5720, 5745 ~ 5825, 5925 ~ 6425, 6425 ~ 6525, 6525 ~ 6875, 6875 ~ 7125
	Bluetooth	2402 ~ 2480

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High-Tek

Summary of Maximum SAR and Power Density Value			
Mode	Highest SAR1g Body (W/kg)	Highest APD (mW/cm ²)	Highest PD (mW/cm ²)
2.4G WLAN	0.54	N/A	N/A
5G WLAN	0.69	N/A	N/A
6E WLAN	0.13	0.07	0.08
Bluetooth(GFSK)	0.17	N/A	N/A

WNC

Summary of Maximum SAR and Power Density Value			
Mode	Highest SAR1g Body (W/kg)	Highest APD (mW/cm ²)	Highest PD (mW/cm ²)
2.4G WLAN	0.39	N/A	N/A
5G WLAN	0.54	N/A	N/A
6E WLAN	0.12	0.05	0.14
Bluetooth(GFSK)	0.19	N/A	N/A

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Antenna information:

Laptop mode_WLAN

Vendor	WNC								
Antenna	WLAN Tx1								
Part Number	48EABP02.SGCLOC								
Frequency(MHz)	2400~2500	5150~5250	5250~5350	5470~5725	5725~5850	5925~6425	6425~6525	6525~6875	6875~7125
Gain (dBi)	0.47	1.00	-1.17	2.40	2.84	2.75	2.50	2.50	1.83

Laptop mode_WLAN

Vendor	WNC								
Antenna	WLAN Tx2								
Part Number	48EABP01.SGCLOC								
Frequency(MHz)	2400~2500	5150~5250	5250~5350	5470~5725	5725~5850	5925~6425	6425~6525	6525~6875	6875~7125
Gain (dBi)	1.84	0.71	2.17	1.26	1.22	2.64	1.78	2.98	2.98

Laptop mode_WLAN

Vendor	High-Tek								
Antenna	WLAN Tx1								
Part Number	219HCTN12197								
Frequency(MHz)	2400~2500	5150~5250	5250~5350	5470~5725	5725~5850	5925~6425	6425~6525	6525~6875	6875~7125
Gain (dBi)	2.37	0.88	2.33	2.94	2.92	2.55	2.54	2.54	0.51

Laptop mode_WLAN

Vendor	High-Tek								
Antenna	WLAN Tx2								
Part Number	219HCTN12198								
Frequency(MHz)	2400~2500	5150~5250	5250~5350	5470~5725	5725~5850	5925~6425	6425~6525	6525~6875	6875~7125
Gain (dBi)	1.03	1.77	2.52	2.62	2.95	2.59	0.05	2.62	0.31

Tablet mode_WLAN

Vendor	WNC								
Antenna	WLAN Tx1								
Part Number	48EABP02.SGCLOC								
Frequency(MHz)	2400~2500	5150~5250	5250~5350	5470~5725	5725~5850	5925~6425	6425~6525	6525~6875	6875~7125
Gain (dBi)	-0.54	0.98	0.98	1.11	1.11	0.63	1.39	2.10	0.30

Tablet mode_WLAN

Vendor	WNC								
Antenna	WLAN Tx2								
Part Number	48EABP01.SGCLOC								
Frequency(MHz)	2400~2500	5150~5250	5250~5350	5470~5725	5725~5850	5925~6425	6425~6525	6525~6875	6875~7125
Gain (dBi)	-1.59	1.35	2.37	1.88	2.84	2.52	0.16	1.12	2.91

Tablet mode_WLAN

Vendor	High-Tek								
Antenna	WLAN Tx1								
Part Number	219HCTN12197								
Frequency(MHz)	2400~2500	5150~5250	5250~5350	5470~5725	5725~5850	5925~6425	6425~6525	6525~6875	6875~7125
Gain (dBi)	0.80	1.87	2.64	2.68	2.68	2.81	1.81	2.01	1.93

Tablet mode_WLAN

Vendor	High-Tek								
Antenna	WLAN Tx2								
Part Number	219HCTN12198								
Frequency(MHz)	2400~2500	5150~5250	5250~5350	5470~5725	5725~5850	5925~6425	6425~6525	6525~6875	6875~7125
Gain (dBi)	1.84	2.30	2.52	2.86	2.85	2.90	1.18	2.6	0.16

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**WLAN conducted power table:
Tablet mode / Book mode**

WLAN Tx1						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2.45GHz	802.11b	1	2412	1Mbps	16.00	15.83
		6	2437		16.00	15.77
		11	2462		16.00	15.74
	802.11g	1	2412	6Mbps	16.00	NR*
		6	2437		16.00	
		11	2462		16.00	
	802.11n20-HT0	1	2412	MCS0	16.00	
		6	2437		16.00	
		11	2462		16.00	
	802.11ac20-VHT0	1	2412	MCS0	16.00	
		6	2437		16.00	
		11	2462		16.00	
	802.11ax20-HE0	1	2412	MCS0	16.00	
		6	2437		16.00	
		11	2462		16.00	
	802.11n40-HT0	3	2422	MCS0	15.00	
		6	2437		16.00	
		9	2452		15.00	
	802.11ac40-VHT0	3	2422	MCS0	15.00	
		6	2437		16.00	
		9	2452		15.00	
	802.11ax40-HE0	3	2422	MCS0	15.00	
		6	2437		16.00	
		9	2452		15.00	

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WLAN Tx1							
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	15.00	NR*	
		40	5200		15.00		
		44	5220		15.00		
		48	5240		15.00		
	802.11n20-HT0	36	5180	MCS0	15.00		
		40	5200		15.00		
		44	5220		15.00		
		48	5240		15.00		
	802.11ac20-VHT0	36	5180	MCS0	15.00		
		40	5200		15.00		
		44	5220		15.00		
		48	5240		15.00		
	802.11ax20-HE0	36	5180	MCS0	15.00		
		40	5200		15.00		
		44	5220		15.00		
		48	5240		15.00		
	802.11n40-HT0	38	5190	MCS0	15.00		14.68
		46	5230		15.00		14.93
802.11ac40-VHT0	38	5190	MCS0	15.00	NR*		
	46	5230		15.00			
802.11ax40-HE0	38	5190	MCS0	15.00			
	46	5230		15.00			
802.11ac80-VHT0	42	5210	MCS0	14.00			
802.11ax80-HE0	42	5210	MCS0	14.00			
802.11ac160-VHT0	50	5250	MCS0	10.50			
802.11ax160-HE0	50	5250	MCS0	10.50			

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WLAN Tx1						
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	14.50	NR*
		56	5280		14.50	
		60	5300		14.50	
		64	5320		14.50	
	802.11n20-HT0	52	5260	MCS0	14.50	
		56	5280		14.50	
		60	5300		14.50	
		64	5320		14.50	
	802.11ac20-VHT0	52	5260	MCS0	14.50	
		56	5280		14.50	
		60	5300		14.50	
		64	5320		14.50	
	802.11ax20-HE0	52	5260	MCS0	14.50	
		56	5280		14.50	
		60	5300		14.50	
		64	5320		14.50	
	802.11n40-HT0	54	5270	MCS0	14.50	
		62	5310		14.50	
802.11ac40-VHT0	54	5270	MCS0	14.50		
	62	5310		14.50		
802.11ax40-HE0	54	5270	MCS0	14.50		
	62	5310		14.50		
802.11ac80-VHT0	58	5290	MCS0	14.50	14.36	
802.11ax80-HE0	58	5290	MCS0	14.50	NR*	

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WLAN Tx1						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.6GHz	802.11a	100	5500	6Mbps	14.50	NR*
		120	5600		14.50	
		140	5700		14.50	
		144	5720		14.50	
	802.11n20-HT0	100	5500	MCS0	14.50	
		120	5600		14.50	
		140	5700		14.50	
		144	5720		14.50	
	802.11ac20-VHT0	100	5500	MCS0	14.50	
		120	5600		14.50	
		140	5700		14.50	
		144	5720		14.50	
	802.11ax20-HE0	100	5500	MCS0	14.50	
		120	5600		14.50	
		140	5700		14.50	
		144	5720		14.50	
	802.11n40-HT0	102	5510	MCS0	14.50	
		118	5590		14.50	
		134	5670		14.50	
		142	5710		14.50	
	802.11ac40-VHT0	102	5510	MCS0	14.50	
		118	5590		14.50	
		134	5670		14.50	
		142	5710		14.50	
	802.11ax40-HE0	102	5510	MCS0	14.50	
		118	5590		14.50	
		134	5670		14.50	
		142	5710		14.50	
802.11ac80-VHT0	106	5530	MCS0	14.50	14.36	
	122	5610		14.50	14.21	
	138	5690		14.50	14.41	
802.11ax80-HE0	106	5530	MCS0	14.50	NR*	
	122	5610		14.50		
	138	5690		14.50		
802.11ac160-VHT0	114	5570	MCS0	9.50		
802.11ax160-HE0	114	5570	MCS0	9.50		

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WLAN Tx1						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.8GHz	802.11a	149	5745	6Mbps	15.00	NR*
		157	5785		15.00	
		165	5825		15.00	
	802.11n20-HT0	149	5745	MCS0	15.00	
		157	5785		15.00	
		165	5825		15.00	
	802.11ac20-VHT0	149	5745	MCS0	15.00	
		157	5785		15.00	
		165	5825		15.00	
	802.11ax20-HE0	149	5745	MCS0	15.00	
		157	5785		15.00	
		165	5825		15.00	
	802.11n40-HT0	151	5755	MCS0	15.00	
		159	5795		15.00	
	802.11ac40-VHT0	151	5755	MCS0	15.00	
159		5795	15.00			
802.11ax40-HE0	151	5755	MCS0	15.00		
	159	5795		15.00		
802.11ac80-VHT0	155	5775	MCS0	15.00	14.84	
802.11ax80-HE0	155	5775	MCS0	15.00	NR*	

*Not required

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WLAN Tx2						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2.45GHz	802.11b	1	2412	1Mbps	16.00	15.64
		6	2437		16.00	15.61
		11	2462		16.00	15.84
	802.11g	1	2412	6Mbps	16.00	NR*
		6	2437		16.00	
		11	2462		16.00	
	802.11n20-HT0	1	2412	MCS0	16.00	
		6	2437		16.00	
		11	2462		16.00	
	802.11ac20-VHT0	1	2412	MCS0	16.00	
		6	2437		16.00	
		11	2462		16.00	
	802.11ax20-HE0	1	2412	MCS0	16.00	
		6	2437		16.00	
		11	2462		16.00	
	802.11n40-HT0	3	2422	MCS0	15.00	
		6	2437		16.00	
		9	2452		15.00	
	802.11ac40-VHT0	3	2422	MCS0	15.00	
		6	2437		16.00	
		9	2452		15.00	
802.11ax40-HE0	3	2422	MCS0	15.00		
	6	2437		16.00		
	9	2452		15.00		

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WLAN Tx2							
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	15.00	NR*	
		40	5200		15.00		
		44	5220		15.00		
		48	5240		15.00		
	802.11n20-HT0	36	5180	MCS0	15.00		
		40	5200		15.00		
		44	5220		15.00		
		48	5240		15.00		
	802.11ac20-VHT0	36	5180	MCS0	15.00		
		40	5200		15.00		
		44	5220		15.00		
		48	5240		15.00		
	802.11ax20-HE0	36	5180	MCS0	15.00		
		40	5200		15.00		
		44	5220		15.00		
		48	5240		15.00		
	802.11n40-HT0	38	5190	MCS0	15.00		14.81
		46	5230		15.00		14.93
802.11ac40-VHT0	38	5190	MCS0	15.00	NR*		
	46	5230		15.00			
802.11ax40-HE0	38	5190	MCS0	15.00			
	46	5230		15.00			
802.11ac80-VHT0	42	5210	MCS0	14.00			
802.11ax80-HE0	42	5210	MCS0	14.00			
802.11ac160-VHT0	50	5250	MCS0	10.50			
802.11ax160-HE0	50	5250	MCS0	10.50			

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WLAN Tx2						
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	14.50	NR*
		56	5280		14.50	
		60	5300		14.50	
		64	5320		14.50	
	802.11n20-HT0	52	5260	MCS0	14.50	
		56	5280		14.50	
		60	5300		14.50	
		64	5320		14.50	
	802.11ac20-VHT0	52	5260	MCS0	14.50	
		56	5280		14.50	
		60	5300		14.50	
		64	5320		14.50	
	802.11ax20-HE0	52	5260	MCS0	14.50	
		56	5280		14.50	
		60	5300		14.50	
		64	5320		14.50	
802.11n40-HT0	54	5270	MCS0	14.50		
	62	5310		14.50		
802.11ac40-VHT0	54	5270	MCS0	14.50		
	62	5310		14.50		
802.11ax40-HE0	54	5270	MCS0	14.50		
	62	5310		14.50		
802.11ac80-VHT0	58	5290	MCS0	14.50	14.15	
802.11ax80-HE0	58	5290	MCS0	14.50	NR*	

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WLAN Tx2						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.6GHz	802.11a	100	5500	6Mbps	14.50	NR*
		120	5600		14.50	
		140	5700		14.50	
		144	5720		14.50	
	802.11n20-HT0	100	5500	MCS0	14.50	
		120	5600		14.50	
		140	5700		14.50	
		144	5720		14.50	
	802.11ac20-VHT0	100	5500	MCS0	14.50	
		120	5600		14.50	
		140	5700		14.50	
		144	5720		14.50	
	802.11ax20-HE0	100	5500	MCS0	14.50	
		120	5600		14.50	
		140	5700		14.50	
		144	5720		14.50	
	802.11n40-HT0	102	5510	MCS0	14.50	
		118	5590		14.50	
		134	5670		14.50	
		142	5710		14.50	
	802.11ac40-VHT0	102	5510	MCS0	14.50	
		118	5590		14.50	
		134	5670		14.50	
		142	5710		14.50	
	802.11ax40-HE0	102	5510	MCS0	14.50	
		118	5590		14.50	
		134	5670		14.50	
		142	5710		14.50	
802.11ac80-VHT0	106	5530	MCS0	14.50	14.44	
	122	5610		14.50	14.31	
	138	5690		14.50	14.08	
802.11ax80-HE0	106	5530	MCS0	14.50	NR*	
	122	5610		14.50		
	138	5690		14.50		
802.11ac160-VHT0	114	5570	MCS0	9.50		
802.11ax160-HE0	114	5570	MCS0	9.50		

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WLAN Tx2						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.8GHz	802.11a	149	5745	6Mbps	15.00	NR*
		157	5785		15.00	
		165	5825		15.00	
	802.11n20-HT0	149	5745	MCS0	15.00	
		157	5785		15.00	
		165	5825		15.00	
	802.11ac20-VHT0	149	5745	MCS0	15.00	
		157	5785		15.00	
		165	5825		15.00	
	802.11ax20-HE0	149	5745	MCS0	15.00	
		157	5785		15.00	
		165	5825		15.00	
	802.11n40-HT0	151	5755	MCS0	15.00	
		159	5795		15.00	
	802.11ac40-VHT0	151	5755	MCS0	15.00	
159		5795	15.00			
802.11ax40-HE0	151	5755	MCS0	15.00		
	159	5795		15.00		
802.11ac80-VHT0	155	5775	MCS0	15.00	14.92	
802.11ax80-HE0	155	5775	MCS0	15.00	NR*	

*Not required

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Notebook mode

WLAN Tx1						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2.45GHz	802.11b	1	2412	1Mbps	18.00	17.81
		6	2437		18.00	17.64
		11	2462		17.50	17.11
	802.11g	1	2412	6Mbps	18.00	NR*
		6	2437		20.50	
		11	2462		18.00	
	802.11n20-HT0	1	2412	MCS0	17.50	
		6	2437		20.00	
		11	2462		17.00	
	802.11ac20-VHT0	1	2412	MCS0	17.50	
		6	2437		20.00	
		11	2462		17.50	
	802.11ax20-HE0	1	2412	MCS0	17.50	
		6	2437		20.00	
		11	2462		17.50	
	802.11n40-HT0	3	2422	MCS0	15.00	
		6	2437		18.00	
		9	2452		15.00	
	802.11ac40-VHT0	3	2422	MCS0	15.00	
		6	2437		18.00	
		9	2452		15.00	
	802.11ax40-HE0	3	2422	MCS0	15.00	
		6	2437		18.00	
		9	2452		15.00	

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WLAN Tx1							
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	19.00	NR*	
		40	5200		19.00		
		44	5220		19.00		
		48	5240		19.00		
	802.11n20-HT0	36	5180	MCS0	18.50		
		40	5200		19.50		
		44	5220		19.50		
		48	5240		19.50		
	802.11ac20-VHT0	36	5180	MCS0	18.50		
		40	5200		19.50		
		44	5220		19.50		
		48	5240		19.50		
	802.11ax20-HE0	36	5180	MCS0	18.50		
		40	5200		19.50		
		44	5220		19.50		
		48	5240		19.50		
	802.11n40-HT0	38	5190	MCS0	17.00		16.79
		46	5230		19.50		19.07
802.11ac40-VHT0	38	5190	MCS0	17.00	NR*		
	46	5230		19.50			
802.11ax40-HE0	38	5190	MCS0	17.00			
	46	5230		19.50			
802.11ac80-VHT0	42	5210	MCS0	14.00			
802.11ax80-HE0	42	5210	MCS0	14.00			
802.11ac160-VHT0	50	5250	MCS0	13.50			
802.11ax160-HE0	50	5250	MCS0	13.50			

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WLAN Tx1							
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	19.00	NR*	
		56	5280		19.00		
		60	5300		19.00		
		64	5320		19.00		
	802.11n20-HT0	52	5260	MCS0	19.50		
		56	5280		19.50		
		60	5300		19.00		
		64	5320		19.00		
	802.11ac20-VHT0	52	5260	MCS0	19.50		
		56	5280		19.50		
		60	5300		19.00		
		64	5320		19.00		
	802.11ax20-HE0	52	5260	MCS0	19.50		
		56	5280		19.50		
		60	5300		19.00		
		64	5320		19.00		
	802.11n40-HT0	54	5270	MCS0	19.50		19.38
		62	5310		16.50		16.11
802.11ac40-VHT0	54	5270	MCS0	19.50	NR*		
	62	5310		16.50			
802.11ax40-HE0	54	5270	MCS0	19.50			
	62	5310		16.50			
802.11ac80-VHT0	58	5290	MCS0	14.50			
802.11ax80-HE0	58	5290	MCS0	14.50			

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WLAN Tx1							
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)	
5.6GHz	802.11a	100	5500	6Mbps	19.00	NR*	
		120	5600		19.00		
		140	5700		19.00		
		144	5720		19.00		
	802.11n20-HT0	100	5500	MCS0	18.50		
		120	5600		19.50		
		140	5700		17.00		
		144	5720		19.00		
	802.11ac20-VHT0	100	5500	MCS0	18.50		
		120	5600		19.50		
		140	5700		17.00		
		144	5720		19.00		
	802.11ax20-HE0	100	5500	MCS0	18.50		
		120	5600		19.50		
		140	5700		17.00		
		144	5720		19.00		
	802.11n40-HT0	102	5510	MCS0	16.50		16.05
		118	5590		19.00		18.62
		134	5670		18.00		17.64
		142	5710		19.50		19.11
	802.11ac40-VHT0	102	5510	MCS0	16.50		NR*
		118	5590		19.00		
		134	5670		18.00		
		142	5710		19.50		
	802.11ax40-HE0	102	5510	MCS0	16.50		
		118	5590		19.00		
		134	5670		18.00		
		142	5710		19.50		
802.11ac80-VHT0	106	5530	MCS0	15.50	NR*		
	122	5610		17.50			
	138	5690		19.00			
802.11ax80-HE0	106	5530	MCS0	15.50			
	122	5610		17.50			
	138	5690		19.00			
802.11ac160-VHT0	114	5570	MCS0	12.50			
802.11ax160-HE0	114	5570	MCS0	12.50			

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WLAN Tx1						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.8GHz	802.11a	149	5745	6Mbps	21.00	20.74
		157	5785		20.50	20.32
		165	5825		21.00	20.67
	802.11n20-HT0	149	5745	MCS0	19.50	NR*
		157	5785		19.50	
		165	5825		19.50	
	802.11ac20-VHT0	149	5745	MCS0	19.50	
		157	5785		19.50	
		165	5825		19.50	
	802.11ax20-HE0	149	5745	MCS0	19.50	
		157	5785		19.50	
		165	5825		19.50	
	802.11n40-HT0	151	5755	MCS0	19.50	
		159	5795		19.50	
	802.11ac40-VHT0	151	5755	MCS0	19.50	
159		5795	19.50			
802.11ax40-HE0	151	5755	MCS0	19.50		
	159	5795		19.50		
802.11ac80-VHT0	155	5775	MCS0	17.50		
802.11ax80-HE0	155	5775	MCS0	17.50		

*Not required

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WLAN Tx2						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2.45GHz	802.11b	1	2412	1Mbps	18.00	17.63
		6	2437		18.00	17.61
		11	2462		17.50	17.14
	802.11g	1	2412	6Mbps	18.00	NR*
		6	2437		20.50	
		11	2462		18.00	
	802.11n20-HT0	1	2412	MCS0	17.50	
		6	2437		20.00	
		11	2462		17.00	
	802.11ac20-VHT0	1	2412	MCS0	17.50	
		6	2437		20.00	
		11	2462		17.50	
	802.11ax20-HE0	1	2412	MCS0	17.50	
		6	2437		20.00	
		11	2462		17.50	
	802.11n40-HT0	3	2422	MCS0	15.00	
		6	2437		18.00	
		9	2452		15.00	
	802.11ac40-VHT0	3	2422	MCS0	15.00	
		6	2437		18.00	
		9	2452		15.00	
	802.11ax40-HE0	3	2422	MCS0	15.00	
		6	2437		18.00	
		9	2452		15.00	

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WLAN Tx2						
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	19.00	NR*
		40	5200		19.00	
		44	5220		19.00	
		48	5240		19.00	
	802.11n20-HT0	36	5180	MCS0	18.50	
		40	5200		19.50	
		44	5220		19.50	
		48	5240		19.50	
	802.11ac20-VHT0	36	5180	MCS0	18.50	
		40	5200		19.50	
		44	5220		19.50	
		48	5240		19.50	
	802.11ax20-HE0	36	5180	MCS0	18.50	
		40	5200		19.50	
		44	5220		19.50	
		48	5240		19.50	
	802.11n40-HT0	38	5190	MCS0	17.00	16.75
		46	5230		19.50	19.29
802.11ac40-VHT0	38	5190	MCS0	17.00	NR*	
	46	5230		19.50		
802.11ax40-HE0	38	5190	MCS0	17.00		
	46	5230		19.50		
802.11ac80-VHT0	42	5210	MCS0	14.00		
802.11ax80-HE0	42	5210	MCS0	14.00		
802.11ac160-VHT0	50	5250	MCS0	13.50		
802.11ax160-HE0	50	5250	MCS0	13.50		

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WLAN Tx2							
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	19.00	NR*	
		56	5280		19.00		
		60	5300		19.00		
		64	5320		19.00		
	802.11n20-HT0	52	5260	MCS0	19.50		
		56	5280		19.50		
		60	5300		19.00		
		64	5320		19.00		
	802.11ac20-VHT0	52	5260	MCS0	19.50		
		56	5280		19.50		
		60	5300		19.00		
		64	5320		19.00		
	802.11ax20-HE0	52	5260	MCS0	19.50		
		56	5280		19.50		
		60	5300		19.00		
		64	5320		19.00		
	802.11n40-HT0	54	5270	MCS0	19.50		19.14
		62	5310		16.50		16.46
802.11ac40-VHT0	54	5270	MCS0	19.50	NR*		
	62	5310		16.50			
802.11ax40-HE0	54	5270	MCS0	19.50			
	62	5310		16.50			
802.11ac80-VHT0	58	5290	MCS0	14.50			
802.11ax80-HE0	58	5290	MCS0	14.50			

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WLAN Tx2							
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)	
5.6GHz	802.11a	100	5500	6Mbps	19.00	NR*	
		120	5600		19.00		
		140	5700		19.00		
		144	5720		19.00		
	802.11n20-HT0	100	5500	MCS0	18.50		
		120	5600		19.50		
		140	5700		17.00		
		144	5720		19.00		
	802.11ac20-VHT0	100	5500	MCS0	18.50		
		120	5600		19.50		
		140	5700		17.00		
		144	5720		19.00		
	802.11ax20-HE0	100	5500	MCS0	18.50		
		120	5600		19.50		
		140	5700		17.00		
		144	5720		19.00		
	802.11n40-HT0	102	5510	MCS0	16.50		16.25
		118	5590		19.00		18.57
		134	5670		18.00		17.81
		142	5710		19.50		19.38
	802.11ac40-VHT0	102	5510	MCS0	16.50		NR*
		118	5590		19.00		
		134	5670		18.00		
		142	5710		19.50		
	802.11ax40-HE0	102	5510	MCS0	16.50		
		118	5590		19.00		
		134	5670		18.00		
		142	5710		19.50		
802.11ac80-VHT0	106	5530	MCS0	15.50			
	122	5610		17.50			
	138	5690		19.00			
802.11ax80-HE0	106	5530	MCS0	15.50			
	122	5610		17.50			
	138	5690		19.00			
802.11ac160-VHT0	114	5570	MCS0	12.50	NR*		
802.11ax160-HE0	114	5570	MCS0	12.50			

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WLAN Tx2						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.8GHz	802.11a	149	5745	6Mbps	21.00	20.82
		157	5785		20.50	20.35
		165	5825		21.00	20.71
	802.11n20-HT0	149	5745	MCS0	19.50	NR*
		157	5785		19.50	
		165	5825		19.50	
	802.11ac20-VHT0	149	5745	MCS0	19.50	
		157	5785		19.50	
		165	5825		19.50	
	802.11ax20-HE0	149	5745	MCS0	19.50	
		157	5785		19.50	
		165	5825		19.50	
	802.11n40-HT0	151	5755	MCS0	19.50	
		159	5795		19.50	
	802.11ac40-VHT0	151	5755	MCS0	19.50	
159		5795	19.50			
802.11ax40-HE0	151	5755	MCS0	19.50		
	159	5795		19.50		
802.11ac80-VHT0	155	5775	MCS0	17.50		
802.11ax80-HE0	155	5775	MCS0	17.50		

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WIFI 6E power:

WLAN Tx1							
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	1.00	NR*	
		45	6175		1.00		
		93	6415		1.00		
	802.11ax40-HE0	3	5965	MCS0	3.50		
		43	6165		3.50		
		91	6405		3.50		
	802.11ax80-HE0	7	5985	MCS0	7.00		
		39	6145		7.00		
		87	6385		7.00		
	802.11ax160-HE0	15	6025	MCS0	9.00		8.65
		47	6185		9.00		8.76
		79	6345		9.50		9.29

WLAN Tx1							
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	1.50	NR*	
		105	6475		1.50		
		113	6515		1.50		
	802.11ax40-HE0	99	6445	MCS0	4.00		
		107	6485		4.00		
	802.11ax80-HE0	103	6465	MCS0	7.00		
		119	6545		7.00		
	802.11ax160-HE0	111	6505	MCS0	9.50		9.01

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WLAN Tx1							
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	1.50	NR*	
		149	6695		1.50		
		181	6855		1.50		
	802.11ax40-HE0	115	6525	MCS0	4.00		
		147	6685		4.00		
		179	6845		4.00		
	802.11ax80-HE0	135	6625	MCS0	7.00		
		151	6705		7.00		
		167	6785		7.00		
	802.11ax160-HE0	143	6665	MCS0	9.00		8.98
		175	6825		9.00		8.94

WLAN Tx1							
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	2.00	NR*	
		209	6995		2.00		
		233	7115		2.00		
	802.11ax40-HE0	187	6885	MCS0	4.50		
		227	7085		4.50		
	802.11ax80-HE0	183	6865	MCS0	7.50		
		199	6945		7.50		
		215	7025		7.50		
	802.11ax160-HE0	207	6985	MCS0	9.50		9.14

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WLAN Tx2							
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	1.00	NR*	
		45	6175		1.00		
		93	6415		1.00		
	802.11ax40-HE0	3	5965	MCS0	3.50		
		43	6165		3.50		
		91	6405		3.50		
	802.11ax80-HE0	7	5985	MCS0	7.00		
		39	6145		7.00		
		87	6385		7.00		
	802.11ax160-HE0	15	6025	MCS0	9.00		8.87
		47	6185		9.00		8.79
		79	6345		9.50		9.11

WLAN Tx2							
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	1.50	NR*	
		105	6475		1.50		
		113	6515		1.50		
	802.11ax40-HE0	99	6445	MCS0	3.00		
		107	6485		3.00		
	802.11ax80-HE0	103	6465	MCS0	7.00		
		119	6545		7.00		
	802.11ax160-HE0	111	6505	MCS0	9.50		9.28

*Not required

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WLAN Tx2							
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	1.50	NR*	
		149	6695		1.50		
		181	6855		1.50		
	802.11ax40-HE0	115	6525	MCS0	4.00		
		147	6685		4.00		
		179	6845		4.00		
	802.11ax80-HE0	135	6625	MCS0	7.00		
		151	6705		7.00		
		167	6785		7.00		
	802.11ax160-HE0	143	6665	MCS0	9.00		8.76
		175	6825		9.00		8.67

WLAN Tx2							
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	2.00	NR*	
		209	6995		2.00		
		233	7115		2.00		
	802.11ax40-HE0	187	6885	MCS0	4.50		
		227	7085		4.50		
	802.11ax80-HE0	183	6865	MCS0	7.50		
		199	6945		7.50		
		215	7025		7.50		
	802.11ax160-HE0	207	6985	MCS0	9.50		9.13

*Not required

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Bluetooth conducted power table:

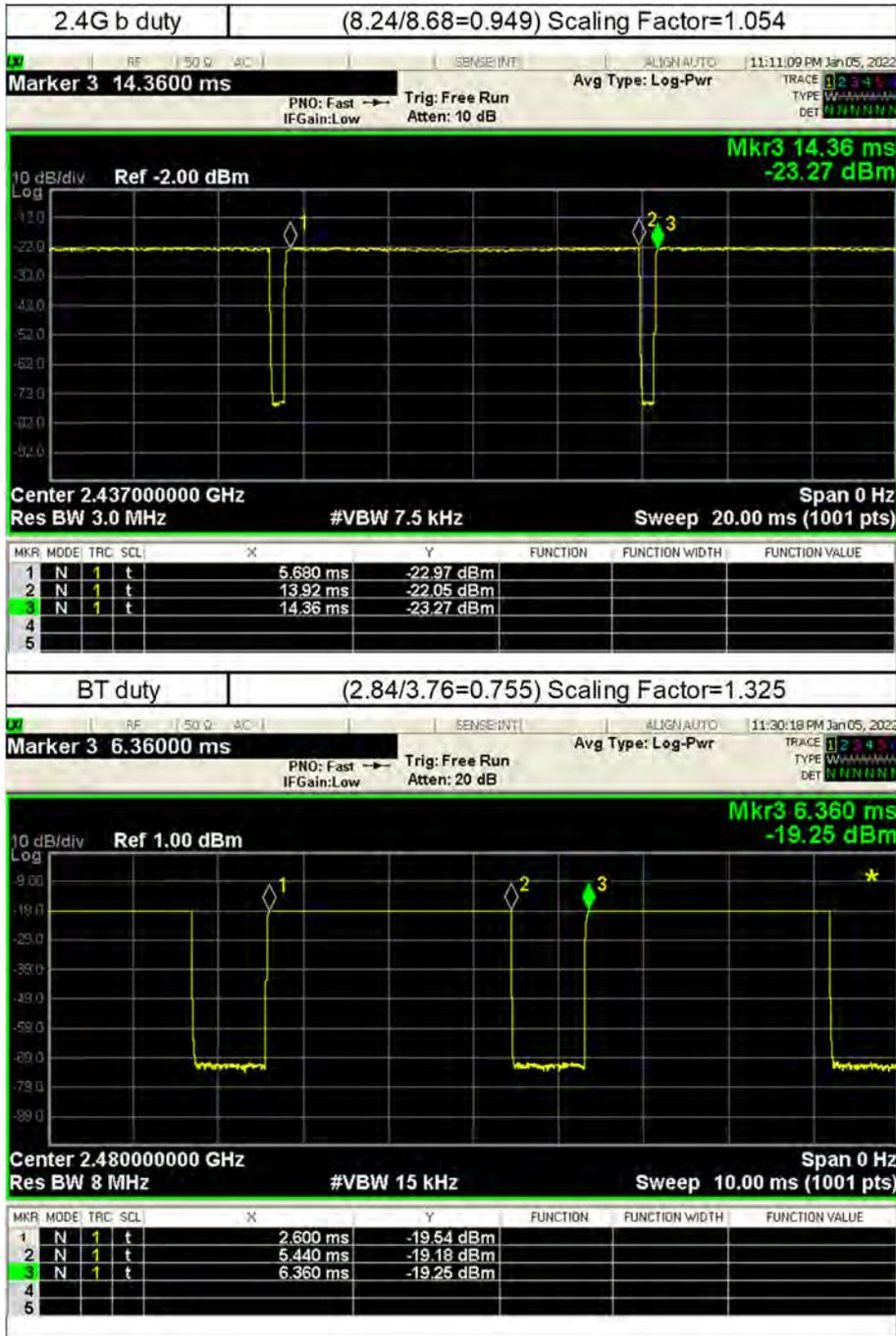
Mode	Channel	Frequency (MHz)	1Mbps		2Mbps		3Mbps	
			Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
BR/EDR	CH 00	2402	11.50	11.42	8.50	8.42	8.50	8.39
	CH 39	2441		11.31		8.41		8.36
	CH 78	2480		11.22		8.36		8.31

Mode	Channel	Frequency (MHz)	GFSK	
			Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Output Power (dBm)
Bluetooth_1M	CH 00	2402	11.5	10.88
	CH 19	2440		10.81
	CH 39	2480		10.72

Mode	Channel	Frequency (MHz)	GFSK	
			Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Output Power (dBm)
Bluetooth_2M	CH 00	2402	11.5	10.77
	CH 19	2440		10.72
	CH 39	2480		10.67

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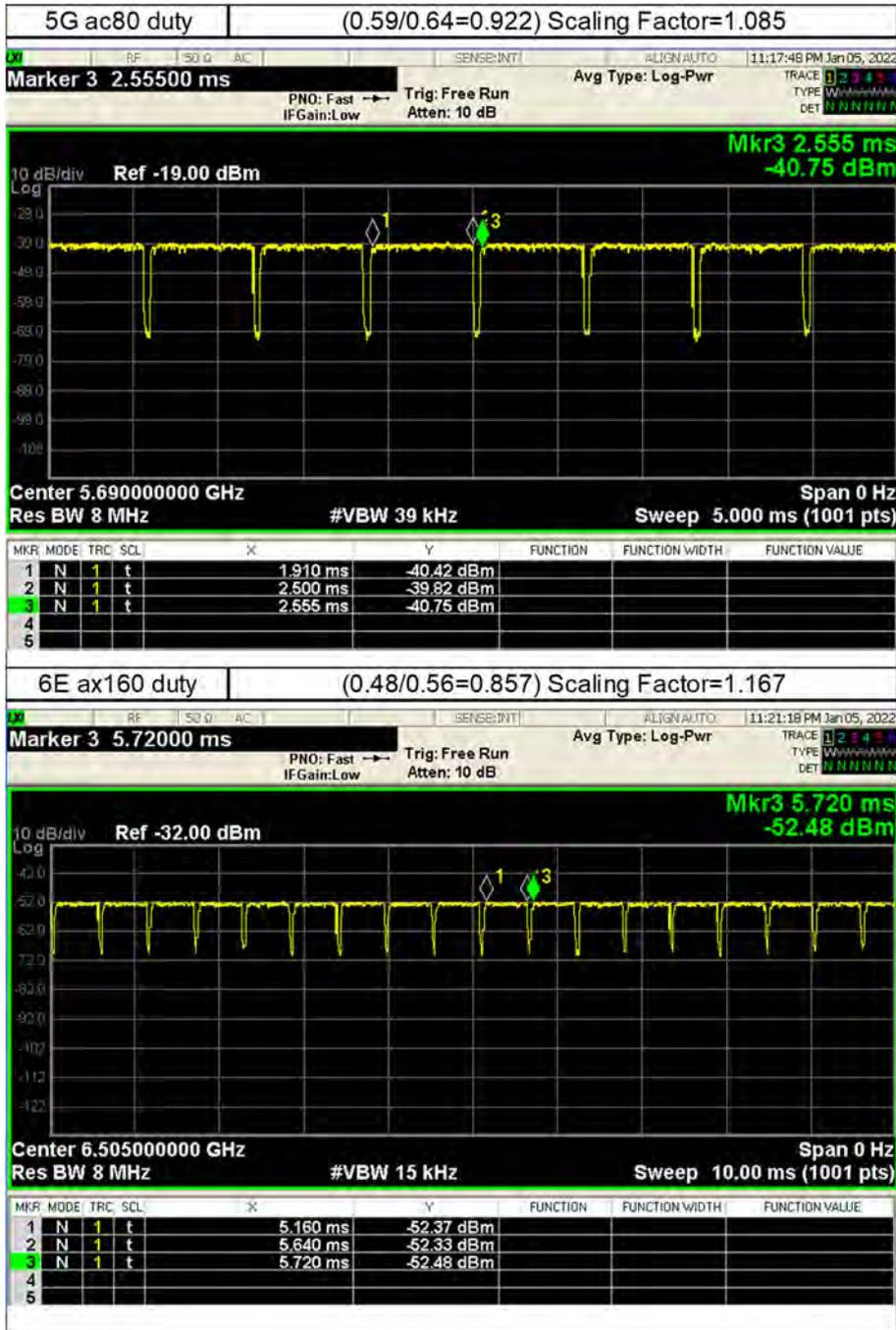
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1.4 Test Environment

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.
13. The device was tested based on FCC guidance. For laptop mode, SAR is not required because the distance between antenna and user is larger than 20cm. For tablet mode, SAR is measured with back and edges touch against the flat phantom. For book mode, SAR is measured with right edge and left edge of panel touch against the flat phantom.

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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.

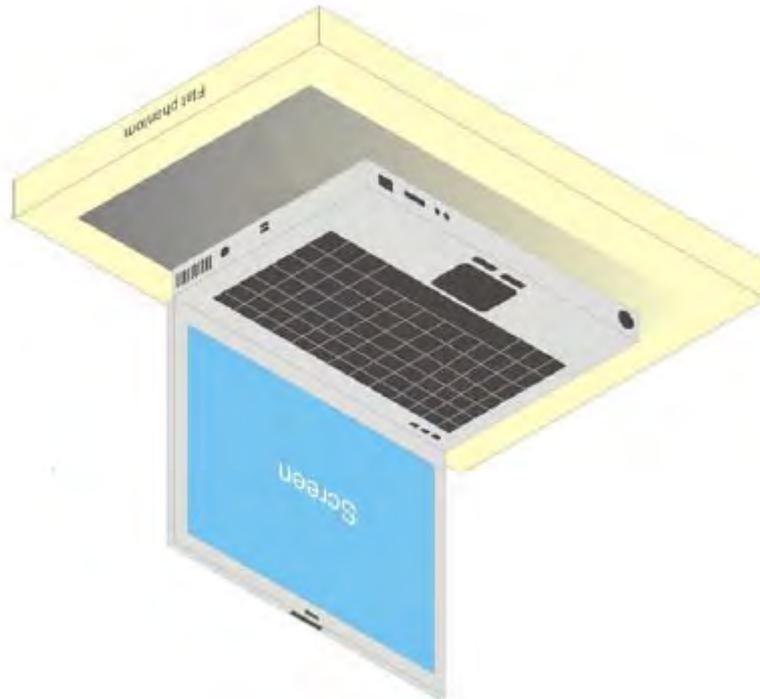


Illustration for Laptop Setup

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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.

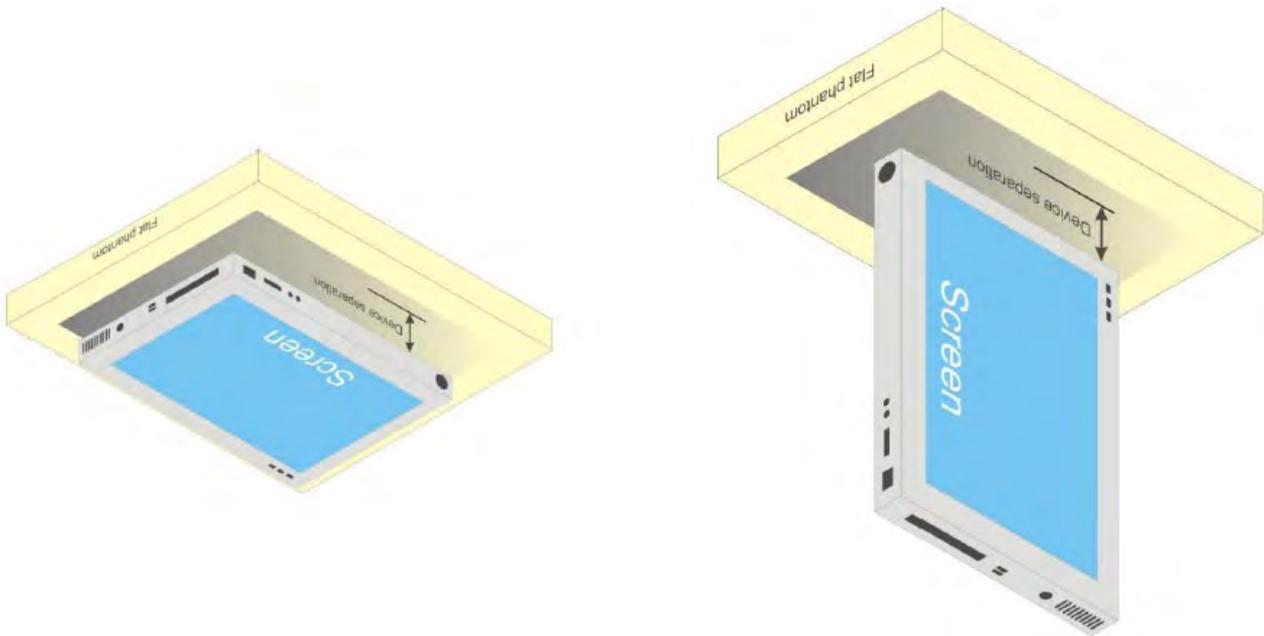


Illustration for Tablet Setup

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1.6.1 Results and conclusion

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

Antenna	Operation mode	Lid angle	802.11b	802.11n(40M) 5.2G	802.11ac(80M) 5.3G	802.11ac(80M) 5.6G	802.11ac(80M) 5.8G
Tx1	Lid close	0°	n/a	n/a	n/a	n/a	n/a
		10°	n/a	n/a	n/a	n/a	n/a
		20°	n/a	n/a	n/a	n/a	n/a
		30°	n/a	n/a	n/a	n/a	n/a
	Laptop	40°	17.90	19.47	14.33	18.91	20.93
		35°	17.83	19.44	14.38	18.84	20.89
	Lid close	30°	n/a	n/a	n/a	n/a	n/a
		31°	n/a	n/a	n/a	n/a	n/a
		32°	n/a	n/a	n/a	n/a	n/a
		33°	n/a	n/a	n/a	n/a	n/a
		34°	n/a	n/a	n/a	n/a	n/a
	Laptop	35°	17.89	19.47	14.49	18.89	20.93
		36°	17.92	19.32	14.43	18.95	20.84
		37°	17.81	19.41	14.34	18.92	21.00
		38°	17.88	19.47	14.46	18.98	20.82
		39°	17.87	19.49	14.49	18.98	20.81
		40°	17.83	19.36	14.36	18.92	20.86
		50°	17.82	19.48	14.39	18.88	20.98
		60°	17.85	19.32	14.45	18.90	20.82
		70°	17.93	19.36	14.49	18.84	20.87
		80°	18.00	19.46	14.44	18.91	20.88
		90°	17.81	19.50	14.47	18.81	20.87
		100°	17.92	19.47	14.44	18.81	20.87
		110°	17.94	19.33	14.46	18.86	20.89
		120°	17.91	19.35	14.39	18.87	20.89
	Flat	130°	15.89	14.94	14.33	14.50	14.94
	Laptop	125°	17.95	19.47	14.32	18.83	21.00
		126°	17.95	19.31	14.49	18.97	20.90
		127°	17.87	19.38	14.49	18.82	20.81
		128°	17.96	19.47	14.40	18.87	20.87
		129°	17.84	19.44	14.39	18.84	20.92
	Flat	130°	15.96	15.00	14.32	14.45	14.83
		131°	15.82	14.84	14.49	14.36	14.87
		132°	15.92	14.99	14.31	14.33	14.98
		133°	15.95	14.91	14.45	14.39	14.95
		134°	15.85	14.94	14.32	14.37	14.89
		135°	15.87	14.99	14.46	14.45	14.95
		145°	15.98	14.88	14.44	14.38	14.84
		155°	15.89	14.91	14.43	14.39	14.86
		165°	15.85	14.84	14.31	14.48	14.98
		175°	15.96	14.84	14.44	14.33	14.95
		185°	15.85	14.87	14.46	14.50	14.88
	195°	15.96	14.90	14.46	14.35	14.99	
	Tent (Not Horizontal)	205°	15.84	14.90	14.40	14.50	15.00
	Stand mode (Horizontal)	205°	17.93	19.32	14.50	18.94	20.91
	Flat	200°	15.93	14.97	14.45	14.44	14.94
	Tent (Not Horizontal)	201°	15.97	14.93	14.44	14.43	14.91
		202°	15.97	14.98	14.40	14.36	14.83
		203°	15.81	14.86	14.35	14.31	14.92
		204°	15.91	14.86	14.37	14.41	14.83
205°		15.81	14.95	14.49	14.34	14.99	
215°		15.98	14.90	14.43	14.45	14.83	
225°		15.88	14.89	14.49	14.42	15.00	
235°		15.99	14.93	14.44	14.33	14.97	
245°		15.84	14.96	14.34	14.36	14.95	
255°		15.87	14.92	14.46	14.35	15.00	
265°		15.85	14.82	14.47	14.49	14.99	
275°		15.96	14.98	14.35	14.36	14.96	
285°		15.97	14.87	14.33	14.34	14.99	
295°		15.96	14.87	14.33	14.31	14.82	
305°		15.89	14.82	14.31	14.46	14.88	
315°		15.89	14.92	14.46	14.50	14.94	
325°		15.85	14.81	14.47	14.39	14.96	
335°	15.88	14.96	14.50	14.41	14.99		

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Antenna	Operation mode	Lid angle	802.11b	802.11n(40M) 5.2G	802.11ac(80M) 5.3G	802.11ac(80M) 5.6G	802.11ac(80M) 5.8G	
Tx1	Stand mode (Horizontal)	201°	17.93	19.44	14.47	18.87	20.92	
		202°	17.94	19.34	14.35	18.84	20.90	
		203°	17.90	19.47	14.44	18.84	20.85	
		204°	17.88	19.39	14.33	19.00	20.88	
		205°	17.89	19.39	14.35	18.98	20.95	
		215°	17.84	19.31	14.35	18.92	20.81	
		225°	17.82	19.50	14.49	18.87	20.85	
		235°	17.96	19.42	14.31	18.90	20.82	
		245°	17.98	19.38	14.44	18.88	20.98	
		255°	17.88	19.41	14.31	18.90	20.98	
		265°	17.87	19.39	14.34	18.97	21.00	
		275°	17.99	19.31	14.31	18.98	20.86	
		285°	17.90	19.46	14.31	18.94	20.84	
		295°	17.86	19.40	14.40	18.86	20.82	
		305°	18.00	19.38	14.44	18.87	20.91	
		315°	17.97	19.42	14.32	18.99	20.99	
		325°	17.83	19.40	14.39	18.97	20.85	
		335°	17.81	19.47	14.45	18.84	20.93	
		Tablet	345°	15.94	14.94	14.36	14.32	14.81
		Tent (Not Horizontal)	340°	15.84	14.97	14.41	14.32	14.83
	Stand mode (Horizontal)	340°	17.91	19.34	14.39	18.95	20.86	
	Tablet	341°	15.91	14.89	14.48	14.38	14.81	
		342°	15.83	14.85	14.43	14.49	14.84	
		343°	15.82	14.84	14.44	14.49	14.90	
		344°	15.87	14.92	14.34	14.45	14.98	
		345°	15.84	14.96	14.47	14.31	14.89	
		355°	15.82	14.91	14.50	14.46	14.98	
		360°	15.99	14.86	14.47	14.47	14.81	
	Tablet	350°	15.97	14.86	14.45	14.40	14.81	
	Tent (Not Horizontal)	340°	15.95	14.95	14.40	14.37	14.97	
	Stand mode (Horizontal)	340°	17.97	19.39	14.46	18.83	20.83	
	Tablet	345°	15.83	14.84	14.45	14.50	14.86	
		344°	15.95	14.96	14.43	14.36	14.99	
		343°	15.82	14.91	14.46	14.35	14.95	
		342°	15.93	14.84	14.43	14.38	14.81	
		341°	15.81	14.91	14.48	14.40	14.91	
		340°	15.86	14.87	14.43	14.47	14.95	
		339°	15.84	14.93	14.31	14.31	14.88	
	338°	15.89	14.84	14.49	14.34	14.86		
	337°	15.91	14.93	14.42	14.31	15.00		
	336°	15.86	14.85	14.34	14.36	14.81		
	335°	15.85	14.95	14.48	14.47	14.87		
	325°	15.89	14.97	14.35	14.48	14.93		
	315°	15.85	14.92	14.46	14.33	14.98		
	305°	15.84	14.82	14.44	14.39	14.92		
	295°	15.83	14.82	14.49	14.33	14.85		
	285°	15.98	14.88	14.42	14.38	14.85		
	275°	15.85	14.81	14.48	14.42	14.88		
	265°	16.00	14.96	14.48	14.33	14.81		
	255°	15.97	14.91	14.41	14.44	14.87		
245°	15.99	14.97	14.34	14.37	14.96			
235°	15.82	14.89	14.31	14.34	14.89			
225°	15.88	14.99	14.35	14.46	14.98			
215°	15.92	14.95	14.41	14.39	14.87			
205°	15.85	14.84	14.44	14.41	14.84			

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Antenna	Operation mode	Lid angle	802.11b	802.11n(40M) 5.2G	802.11ac(80M) 5.3G	802.11ac(80M) 5.6G	802.11ac(80M) 5.8G	
Tx1	Stand mode (Horizontal)	340°	17.91	19.35	14.34	18.98	20.98	
		339°	17.93	19.35	14.31	18.83	20.95	
		338°	17.84	19.39	14.35	18.87	20.83	
		337°	18.00	19.43	14.44	18.93	20.86	
		336°	17.89	19.35	14.50	18.85	20.92	
		335°	17.88	19.44	14.50	18.81	20.89	
		325°	17.83	19.50	14.46	18.91	20.86	
		315°	18.00	19.31	14.50	18.84	21.00	
		305°	17.82	19.46	14.42	18.91	20.92	
		295°	17.88	19.40	14.31	18.86	20.99	
		285°	17.82	19.44	14.38	19.00	20.83	
		275°	17.85	19.41	14.43	19.00	20.96	
		265°	17.83	19.34	14.33	18.83	20.96	
		255°	17.96	19.41	14.39	18.93	20.89	
		245°	17.81	19.38	14.33	18.90	20.84	
		235°	17.92	19.33	14.45	18.86	20.93	
		225°	17.85	19.35	14.50	18.87	20.91	
		215°	17.97	19.49	14.48	18.99	20.88	
		205°	17.83	19.34	14.35	18.97	21.00	
		Flat	195°	15.91	14.84	14.41	14.43	14.95
	200°		15.81	14.82	14.38	14.32	14.98	
	Tent (Not Horizontal)	205°	15.92	14.88	14.41	14.46	14.81	
		204°	16.00	14.83	14.37	14.32	14.82	
		203°	15.96	14.96	14.45	14.45	14.84	
		202°	15.93	14.97	14.39	14.45	14.95	
		201°	15.97	14.83	14.46	14.45	14.84	
	Stand mode (Horizontal)	205°	17.84	19.44	14.41	19.00	21.00	
		204°	17.99	19.34	14.48	18.82	20.88	
		203°	18.00	19.45	14.38	18.91	20.82	
		202°	17.83	19.45	14.44	18.90	20.87	
	Flat	201°	17.87	19.46	14.38	18.84	21.00	
		200°	15.99	14.87	14.44	14.50	15.00	
		199°	15.81	14.94	14.43	14.42	14.95	
		198°	15.83	14.85	14.33	14.45	14.92	
		197°	15.97	14.85	14.50	14.49	14.89	
		196°	15.83	14.83	14.44	14.32	14.83	
		195°	15.81	15.00	14.48	14.50	14.91	
		185°	15.89	14.97	14.36	14.48	14.95	
		175°	15.85	14.84	14.36	14.41	14.97	
		165°	15.93	14.93	14.40	14.46	14.92	
		155°	15.86	14.97	14.41	14.32	14.92	
		145°	15.81	14.95	14.33	14.40	14.92	
		135°	15.85	14.88	14.42	14.43	14.95	
	Laptop	125°	17.84	19.32	14.45	18.81	20.84	
	Flat	130°	15.87	14.96	14.41	14.46	14.94	
		129°	17.87	19.42	14.42	18.90	20.96	
		128°	17.81	19.33	14.39	18.98	20.98	
		127°	17.83	19.36	14.43	18.94	20.82	
		126°	17.84	19.33	14.32	18.85	20.93	
		125°	17.95	19.33	14.32	18.98	20.84	
		115°	17.84	19.39	14.50	18.87	20.91	
		105°	17.91	19.34	14.46	18.85	20.92	
		95°	17.93	19.47	14.32	18.92	20.83	
		85°	17.95	19.40	14.42	18.98	20.90	
		75°	17.88	19.46	14.31	18.84	20.87	
		65°	17.96	19.43	14.46	18.98	20.92	
		55°	17.82	19.46	14.46	18.98	20.82	
		45°	17.98	19.43	14.46	18.83	20.96	
		35°	17.81	19.39	14.49	18.82	20.84	
		Lid close	25°	n/a	n/a	n/a	n/a	n/a
			30°	n/a	n/a	n/a	n/a	n/a
		Laptop	35°	17.92	19.43	14.46	18.99	20.82

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Antenna	Operation mode	Lid angle	802.11b	802.11n(40M) 5.2G	802.11ac(80M) 5.3G	802.11ac(80M) 5.6G	802.11ac(80M) 5.8G
Tx1	Lid close	34°	n/a	n/a	n/a	n/a	n/a
		33°	n/a	n/a	n/a	n/a	n/a
		32°	n/a	n/a	n/a	n/a	n/a
		31°	n/a	n/a	n/a	n/a	n/a
		30°	n/a	n/a	n/a	n/a	n/a
		20°	n/a	n/a	n/a	n/a	n/a
		10°	n/a	n/a	n/a	n/a	n/a
	Lid close	0°	n/a	n/a	n/a	n/a	n/a
		10°	n/a	n/a	n/a	n/a	n/a
		20°	n/a	n/a	n/a	n/a	n/a
		30°	n/a	n/a	n/a	n/a	n/a
	Book mode	40°	15.90	14.89	14.42	14.44	15.00
		35°	15.82	14.82	14.35	14.46	14.95
	Lid close	30°	n/a	n/a	n/a	n/a	n/a
		31°	n/a	n/a	n/a	n/a	n/a
		32°	n/a	n/a	n/a	n/a	n/a
		33°	n/a	n/a	n/a	n/a	n/a
	Book mode	34°	n/a	n/a	n/a	n/a	n/a
		35°	15.93	14.85	14.42	14.46	14.81
		36°	15.99	15.00	14.47	14.37	14.88
		37°	15.96	14.89	14.36	14.42	14.83
		38°	15.97	14.89	14.38	14.47	14.82
		39°	16.00	14.86	14.44	14.47	14.84
		40°	15.95	14.82	14.36	14.49	15.00
		50°	15.89	14.98	14.40	14.39	14.97
		60°	15.97	14.97	14.37	14.46	14.85
		70°	15.97	14.92	14.34	14.31	14.98
		80°	15.91	14.94	14.31	14.44	14.89
		90°	15.81	14.82	14.38	14.48	14.98
		100°	15.98	14.94	14.37	14.42	14.98
		110°	15.86	14.93	14.46	14.44	14.95
		120°	15.89	14.84	14.41	14.47	14.97
		130°	15.86	14.84	14.38	14.34	14.83
		140°	15.91	14.83	14.43	14.34	14.83
		150°	15.86	14.98	14.34	14.48	14.88
		160°	15.86	14.84	14.48	14.37	15.00
		170°	15.90	14.93	14.45	14.47	14.91
	180°	15.83	14.84	14.38	14.36	14.96	
	190°	15.87	14.98	14.34	14.45	14.95	
	199°	15.85	14.96	14.46	14.39	14.90	
	Book mode	190°	15.96	14.85	14.37	14.43	14.97
		180°	15.93	14.88	14.40	14.32	14.98
		170°	15.95	14.84	14.33	14.41	14.85
		160°	15.87	14.85	14.50	14.48	14.99
		150°	15.82	14.93	14.48	14.35	14.88
		140°	15.83	14.86	14.34	14.45	14.84
		130°	15.87	14.93	14.44	14.50	14.85
		120°	15.81	14.95	14.47	14.35	14.91
		110°	15.88	14.83	14.44	14.43	14.86
		100°	15.82	14.86	14.37	14.45	14.90
		90°	15.88	14.91	14.46	14.33	14.97
		80°	15.82	14.82	14.39	14.32	14.90
		70°	15.82	15.00	14.35	14.47	14.98
		60°	15.96	14.93	14.47	14.38	14.83
		50°	15.98	14.86	14.35	14.48	15.00
		40°	15.82	14.98	14.47	14.48	14.99
		Lid close	30°	n/a	n/a	n/a	n/a
	Book mode	35°	15.84	14.86	14.40	14.37	14.98
	Lid close	34°	n/a	n/a	n/a	n/a	n/a
		33°	n/a	n/a	n/a	n/a	n/a
		32°	n/a	n/a	n/a	n/a	n/a
		31°	n/a	n/a	n/a	n/a	n/a
		30°	n/a	n/a	n/a	n/a	n/a
		20°	n/a	n/a	n/a	n/a	n/a
		0°	n/a	n/a	n/a	n/a	n/a

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Antenna	Operation mode	Lid angle	802.11b	802.11n(40M) 5.2G	802.11ac(80M) 5.3G	802.11ac(80M) 5.6G	802.11ac(80M) 5.8G
Tx2	Lid close	0°	n/a	n/a	n/a	n/a	n/a
		10°	n/a	n/a	n/a	n/a	n/a
		20°	n/a	n/a	n/a	n/a	n/a
		30°	n/a	n/a	n/a	n/a	n/a
	Laptop	40°	17.96	19.37	14.47	18.99	21.00
		35°	17.86	19.34	14.43	18.88	20.88
	Lid close	30°	n/a	n/a	n/a	n/a	n/a
		31°	n/a	n/a	n/a	n/a	n/a
		32°	n/a	n/a	n/a	n/a	n/a
		33°	n/a	n/a	n/a	n/a	n/a
	Laptop	34°	n/a	n/a	n/a	n/a	n/a
		35°	17.94	19.49	14.48	18.86	20.87
		36°	17.89	19.35	14.33	18.92	20.81
		37°	18.00	19.45	14.36	18.88	20.85
		38°	18.00	19.33	14.35	18.93	20.88
		39°	17.81	19.41	14.37	18.94	21.00
		40°	17.85	19.40	14.40	18.87	20.96
		50°	17.90	19.37	14.33	18.88	20.86
		60°	17.82	19.32	14.31	18.89	20.99
		70°	17.93	19.42	14.31	18.99	20.86
		80°	17.91	19.48	14.49	18.90	20.95
		90°	17.86	19.42	14.37	19.00	20.85
		100°	17.93	19.36	14.46	18.83	20.88
		110°	17.87	19.40	14.40	18.83	20.97
	120°	17.99	19.44	14.33	18.83	20.98	
	Flat	130°	15.92	14.97	14.49	14.31	14.81
	Laptop	125°	17.94	19.45	14.42	18.85	21.00
		126°	17.94	19.36	14.46	18.98	20.95
		127°	17.90	19.49	14.45	18.99	20.94
		128°	17.98	19.37	14.36	18.92	20.97
	Flat	129°	17.83	19.39	14.46	18.93	20.91
		130°	15.91	14.86	14.43	14.39	15.00
		131°	15.90	14.87	14.31	14.31	14.98
		132°	15.94	14.84	14.42	14.37	14.84
		133°	15.92	14.83	14.40	14.34	14.84
		134°	15.87	14.97	14.45	14.50	14.90
		135°	15.96	14.86	14.47	14.47	14.87
		145°	15.91	14.89	14.31	14.40	14.94
		155°	15.97	14.99	14.38	14.40	14.85
		165°	16.00	14.84	14.36	14.46	14.83
		175°	15.97	14.88	14.36	14.38	14.92
	Tent (Not Horizontal)	185°	15.93	14.91	14.47	14.48	14.99
	Stand mode (Horizontal)	195°	15.97	14.97	14.42	14.33	14.92
	Flat	205°	15.88	14.93	14.35	14.46	14.83
		205°	17.84	19.42	14.41	18.98	20.93
	Tent (Not Horizontal)	200°	15.85	14.85	14.47	14.36	15.00
		201°	15.89	14.81	14.48	14.46	14.82
		202°	15.82	14.85	14.44	14.37	14.82
		203°	15.82	14.95	14.47	14.43	14.82
		204°	15.99	14.85	14.50	14.45	14.98
		205°	15.86	14.86	14.37	14.40	14.82
		215°	15.85	14.99	14.49	14.35	14.96
225°		15.90	14.93	14.49	14.34	14.99	
235°		15.85	15.00	14.46	14.49	15.00	
245°		15.89	14.84	14.40	14.37	14.85	
255°		15.84	14.97	14.31	14.47	14.85	
265°		15.95	14.85	14.49	14.50	15.00	
275°		15.86	14.84	14.36	14.50	14.85	
285°		15.91	14.94	14.42	14.36	14.82	
295°		15.85	14.94	14.38	14.48	14.98	
305°		15.87	14.94	14.35	14.41	14.85	
315°		15.98	14.98	14.47	14.44	14.90	
325°		15.95	14.97	14.35	14.31	14.93	
335°		15.94	14.81	14.32	14.49	14.98	

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Antenna	Operation mode	Lid angle	802.11b	802.11n(40M) 5.2G	802.11ac(80M) 5.3G	802.11ac(80M) 5.6G	802.11ac(80M) 5.8G	
Tx2	Stand mode (Horizontal)	201°	17.90	19.43	14.43	18.99	20.83	
		202°	17.97	19.50	14.34	18.96	20.90	
		203°	17.81	19.44	14.46	18.81	20.93	
		204°	17.99	19.37	14.39	18.91	20.91	
		205°	17.90	19.49	14.48	18.97	20.99	
		215°	18.00	19.38	14.48	18.94	21.00	
		225°	17.85	19.47	14.47	18.82	20.88	
		235°	17.97	19.36	14.34	18.96	20.92	
		245°	17.86	19.44	14.43	19.00	20.83	
		255°	17.86	19.46	14.32	18.92	20.84	
		265°	18.00	19.32	14.35	18.87	20.99	
		275°	17.92	19.40	14.49	18.98	20.88	
		285°	17.96	19.50	14.46	18.83	20.95	
		295°	17.96	19.33	14.35	19.00	20.82	
		305°	17.83	19.45	14.43	18.88	20.90	
		315°	17.95	19.41	14.38	18.89	20.94	
		325°	17.89	19.39	14.50	18.81	20.92	
		335°	17.84	19.34	14.31	18.98	20.98	
		Tablet	345°	15.90	14.86	14.49	14.32	14.96
		Tent (Not Horizontal)	340°	15.98	14.90	14.46	14.41	14.96
	Stand mode (Horizontal)	340°	17.98	19.35	14.50	18.97	20.89	
	Tablet	341°	15.83	14.92	14.47	14.44	14.89	
		342°	16.00	14.94	14.35	14.44	14.90	
		343°	15.87	14.84	14.49	14.40	14.92	
		344°	15.81	14.99	14.31	14.39	14.83	
		345°	15.97	14.88	14.49	14.38	14.86	
		355°	16.00	14.96	14.41	14.38	14.99	
		360°	15.81	14.99	14.36	14.45	14.99	
	Tablet	350°	15.81	14.82	14.41	14.50	14.83	
	Tent (Not Horizontal)	340°	15.91	14.98	14.47	14.32	14.86	
	Stand mode (Horizontal)	340°	17.92	19.37	14.45	18.98	20.95	
	Tablet	345°	15.85	14.95	14.42	14.41	14.82	
		344°	15.84	14.95	14.33	14.47	14.99	
		343°	15.88	14.94	14.40	14.45	14.81	
		342°	15.92	14.99	14.48	14.48	15.00	
		341°	15.86	14.94	14.32	14.41	14.96	
	Tent (Not Horizontal)	340°	15.86	15.00	14.33	14.45	14.85	
		339°	15.97	14.86	14.50	14.45	14.81	
		338°	15.90	14.94	14.47	14.33	14.82	
		337°	15.98	14.85	14.32	14.32	14.84	
		336°	15.97	14.83	14.50	14.41	14.92	
		335°	15.83	14.93	14.31	14.46	14.82	
		325°	15.86	14.97	14.43	14.43	14.95	
		315°	15.95	14.92	14.47	14.36	14.83	
		305°	15.81	14.98	14.38	14.49	14.91	
		295°	15.99	14.93	14.35	14.45	14.97	
		285°	15.87	14.83	14.41	14.49	14.84	
		275°	15.92	14.85	14.41	14.42	15.00	
		265°	15.81	14.96	14.33	14.50	14.90	
		255°	15.86	14.82	14.32	14.48	14.87	
245°		15.86	14.82	14.43	14.42	14.86		
235°	15.87	14.86	14.33	14.48	14.86			
225°	15.88	14.96	14.31	14.42	14.94			
215°	15.84	14.99	14.45	14.46	14.93			
205°	15.92	14.81	14.34	14.35	14.94			

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Antenna	Operation mode	Lid angle	802.11b	802.11n(40M) 5.2G	802.11ac(80M) 5.3G	802.11ac(80M) 5.6G	802.11ac(80M) 5.8G	
Tx2	Stand mode (Horizontal)	340°	17.91	19.34	14.34	18.87	20.85	
		339°	17.90	19.47	14.38	18.93	20.90	
		338°	17.87	19.41	14.39	18.84	21.00	
		337°	17.86	19.47	14.48	18.89	20.86	
		336°	17.96	19.47	14.41	18.93	20.86	
		335°	17.96	19.38	14.47	18.90	20.89	
		325°	17.85	19.48	14.31	18.93	20.88	
		315°	17.96	19.34	14.31	19.00	20.83	
		305°	17.94	19.33	14.34	18.85	20.94	
		295°	17.97	19.36	14.47	18.94	20.89	
		285°	17.92	19.48	14.46	18.82	20.93	
		275°	17.94	19.34	14.32	18.92	20.92	
		265°	17.89	19.33	14.40	18.86	21.00	
		255°	17.95	19.49	14.35	18.88	20.98	
		245°	17.98	19.35	14.50	18.86	20.94	
		235°	17.85	19.33	14.31	18.83	20.90	
		225°	17.96	19.48	14.46	18.99	20.90	
		215°	17.99	19.42	14.46	18.85	20.83	
		205°	17.98	19.36	14.37	18.93	20.96	
		Flat	195°	15.99	14.82	14.42	14.37	14.84
	200°		15.85	14.95	14.43	14.31	14.84	
	Tent (Not Horizontal)	205°	15.98	14.90	14.34	14.43	14.91	
		204°	15.94	14.85	14.40	14.33	14.94	
		203°	15.82	14.87	14.40	14.39	14.98	
		202°	15.97	14.85	14.34	14.38	14.85	
		201°	15.84	14.88	14.48	14.40	14.85	
	Stand mode (Horizontal)	205°	17.97	19.49	14.40	18.99	20.87	
		204°	18.00	19.42	14.38	18.82	20.86	
		203°	17.95	19.47	14.44	18.88	20.91	
		202°	17.82	19.33	14.42	18.99	20.87	
	Flat	201°	17.89	19.41	14.41	19.00	20.94	
		200°	15.87	14.93	14.45	14.49	14.83	
		199°	15.88	14.85	14.40	14.36	14.87	
		198°	15.89	14.98	14.50	14.43	14.83	
		197°	15.91	14.87	14.42	14.45	14.86	
		196°	15.98	14.82	14.34	14.42	14.83	
		195°	15.83	14.82	14.49	14.44	14.85	
		185°	15.95	14.85	14.44	14.47	14.99	
		175°	15.94	14.96	14.43	14.43	14.82	
		165°	15.93	14.81	14.37	14.50	14.82	
		155°	15.90	14.88	14.37	14.34	14.95	
		145°	15.81	14.83	14.45	14.49	14.93	
	Laptop	135°	15.92	14.96	14.34	14.48	14.87	
		125°	17.90	19.45	14.45	18.95	21.00	
	Flat	130°	15.81	14.86	14.41	14.49	14.86	
		129°	17.89	19.33	14.45	18.83	20.89	
	Laptop	128°	17.99	19.39	14.41	18.95	20.99	
		127°	17.91	19.45	14.40	18.96	20.82	
		126°	17.87	19.40	14.31	18.93	20.92	
		125°	17.90	19.46	14.36	18.98	20.99	
		115°	17.92	19.46	14.49	18.81	20.95	
		105°	17.91	19.44	14.46	18.95	20.90	
		95°	17.97	19.43	14.35	18.82	20.99	
		85°	17.88	19.46	14.38	18.93	20.83	
		75°	17.96	19.36	14.46	18.90	20.98	
		65°	17.93	19.48	14.48	18.92	20.87	
		55°	17.96	19.40	14.48	18.81	20.88	
		45°	18.00	19.34	14.43	18.93	20.89	
		35°	17.98	19.41	14.43	18.85	20.81	
		Lid close	25°	n/a	n/a	n/a	n/a	n/a
			30°	n/a	n/a	n/a	n/a	n/a
	Laptop	35°	17.84	19.37	14.34	18.90	20.91	

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Antenna	Operation mode	Lid angle	802.11b	802.11n(40M) 5.2G	802.11ac(80M) 5.3G	802.11ac(80M) 5.6G	802.11ac(80M) 5.8G
Tx2	Lid close	34°	n/a	n/a	n/a	n/a	n/a
		33°	n/a	n/a	n/a	n/a	n/a
		32°	n/a	n/a	n/a	n/a	n/a
		31°	n/a	n/a	n/a	n/a	n/a
		30°	n/a	n/a	n/a	n/a	n/a
		20°	n/a	n/a	n/a	n/a	n/a
		10°	n/a	n/a	n/a	n/a	n/a
		0°	n/a	n/a	n/a	n/a	n/a
	Lid close	0°	n/a	n/a	n/a	n/a	n/a
		10°	n/a	n/a	n/a	n/a	n/a
		20°	n/a	n/a	n/a	n/a	n/a
		30°	n/a	n/a	n/a	n/a	n/a
	Book mode	40°	15.93	14.96	14.35	14.44	14.95
		35°	16.00	14.87	14.42	14.46	14.90
	Lid close	30°	n/a	n/a	n/a	n/a	n/a
		31°	n/a	n/a	n/a	n/a	n/a
		32°	n/a	n/a	n/a	n/a	n/a
		33°	n/a	n/a	n/a	n/a	n/a
	Book mode	34°	n/a	n/a	n/a	n/a	n/a
		35°	15.81	14.84	14.37	14.33	14.81
		36°	16.00	14.93	14.47	14.38	14.82
		37°	15.96	14.92	14.37	14.32	14.93
		38°	15.83	14.95	14.44	14.47	14.84
		39°	15.84	14.98	14.32	14.35	14.88
		40°	15.94	14.90	14.37	14.34	14.87
		50°	15.82	14.98	14.43	14.36	14.93
		60°	15.97	15.00	14.33	14.33	14.91
		70°	15.83	14.81	14.40	14.38	14.94
		80°	15.95	14.92	14.35	14.36	14.97
		90°	15.89	14.90	14.48	14.48	14.95
		100°	16.00	14.91	14.47	14.46	14.96
		110°	15.93	14.97	14.48	14.37	14.85
		120°	15.89	14.93	14.40	14.49	14.96
		130°	15.82	14.81	14.35	14.35	14.88
		140°	15.87	14.92	14.48	14.49	14.90
		150°	15.93	14.95	14.43	14.31	14.91
		160°	15.95	14.94	14.37	14.37	14.85
		170°	15.95	14.96	14.49	14.42	14.86
	180°	15.95	14.94	14.49	14.49	14.99	
	190°	15.87	14.83	14.33	14.39	14.88	
	199°	15.95	14.84	14.38	14.36	14.85	
	Book mode	190°	15.84	14.96	14.45	14.36	14.86
		180°	15.92	14.83	14.33	14.45	14.98
		170°	15.87	14.93	14.45	14.35	14.85
		160°	15.86	14.82	14.46	14.31	14.91
		150°	15.82	14.98	14.40	14.41	14.86
		140°	15.96	14.92	14.42	14.46	14.98
		130°	15.81	14.95	14.44	14.50	14.81
		120°	15.90	14.82	14.36	14.48	14.94
		110°	15.90	14.96	14.41	14.47	14.88
		100°	15.93	14.98	14.33	14.37	14.96
		90°	15.96	15.00	14.49	14.31	14.82
		80°	15.81	14.98	14.48	14.41	14.81
		70°	15.99	14.81	14.50	14.39	14.91
		60°	15.98	14.84	14.41	14.46	14.89
		50°	15.84	14.85	14.45	14.39	14.92
		40°	15.88	14.94	14.43	14.45	14.85
	Lid close	30°	n/a	n/a	n/a	n/a	n/a
	Book mode	35°	15.83	14.85	14.48	14.46	14.99
	Lid close	34°	n/a	n/a	n/a	n/a	n/a
		33°	n/a	n/a	n/a	n/a	n/a
		32°	n/a	n/a	n/a	n/a	n/a
		31°	n/a	n/a	n/a	n/a	n/a
		30°	n/a	n/a	n/a	n/a	n/a
		20°	n/a	n/a	n/a	n/a	n/a
		0°	n/a	n/a	n/a	n/a	n/a

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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.
- (2) K. Meier, M. Burkhardt, T. Schmid, and N. Kuster, "Broadband calibration of E-field probes in lossy media", *IEEE Transactions on Microwave Theory and Techniques*, vol. 44, no. 10, pp. 1954-1962, Oct. 1996.
- (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:

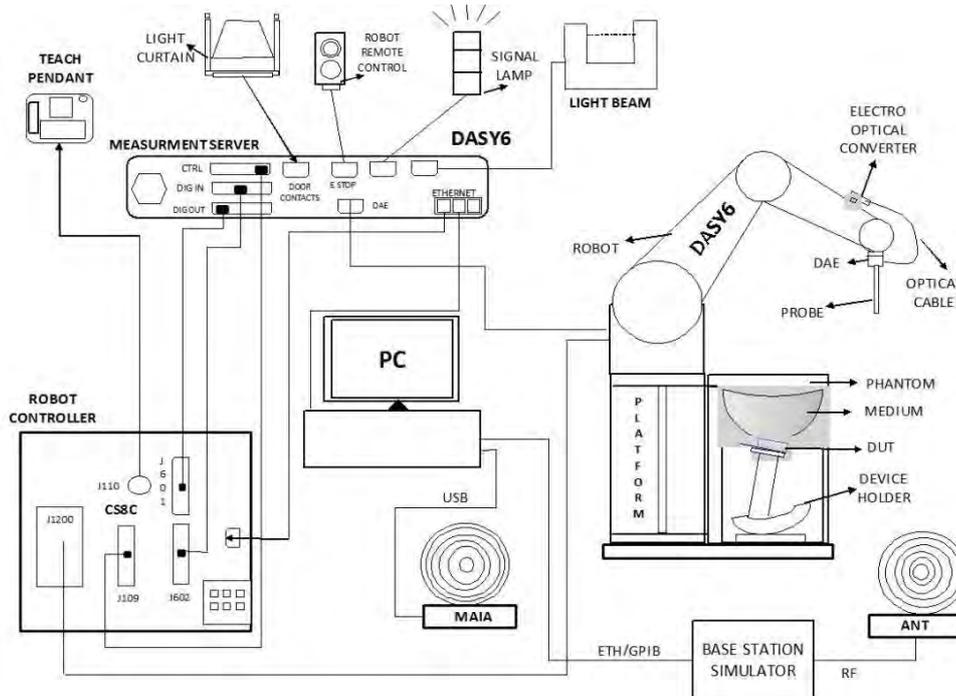


Fig. a A block diagram of the SAR measurement system

- 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.

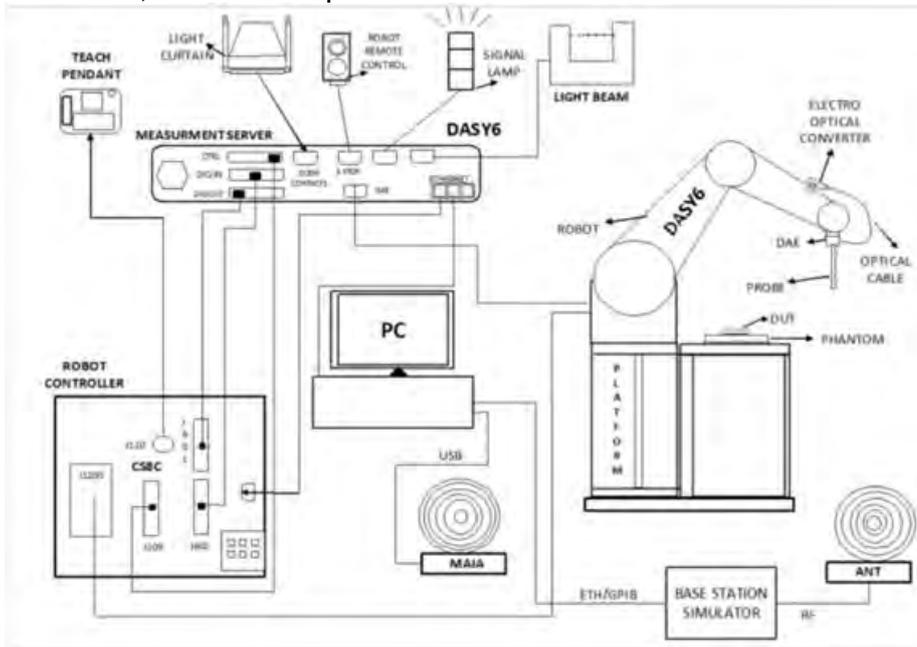


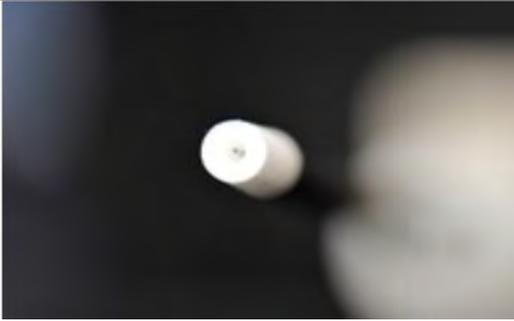
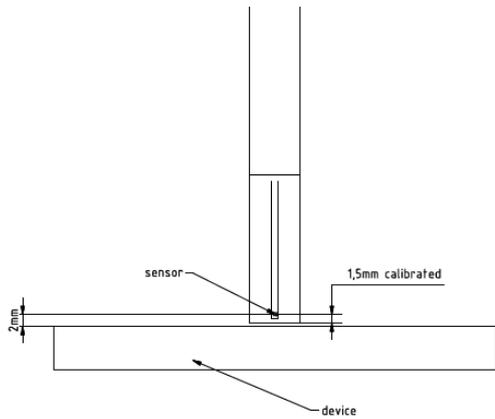
Fig-2.1 SPEAG DASY6 system

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 $\pm 10\%$ (according to KDB865664D01) from the target SAR values.

These tests were done at 2450/5200/5300/5600/5800/6500/7000 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 ($\leq 3G$) or 10 cm ($> 3G$) in all the cases. It is seen that the system is operating within its specification, as the results are within acceptable tolerance of the reference values.

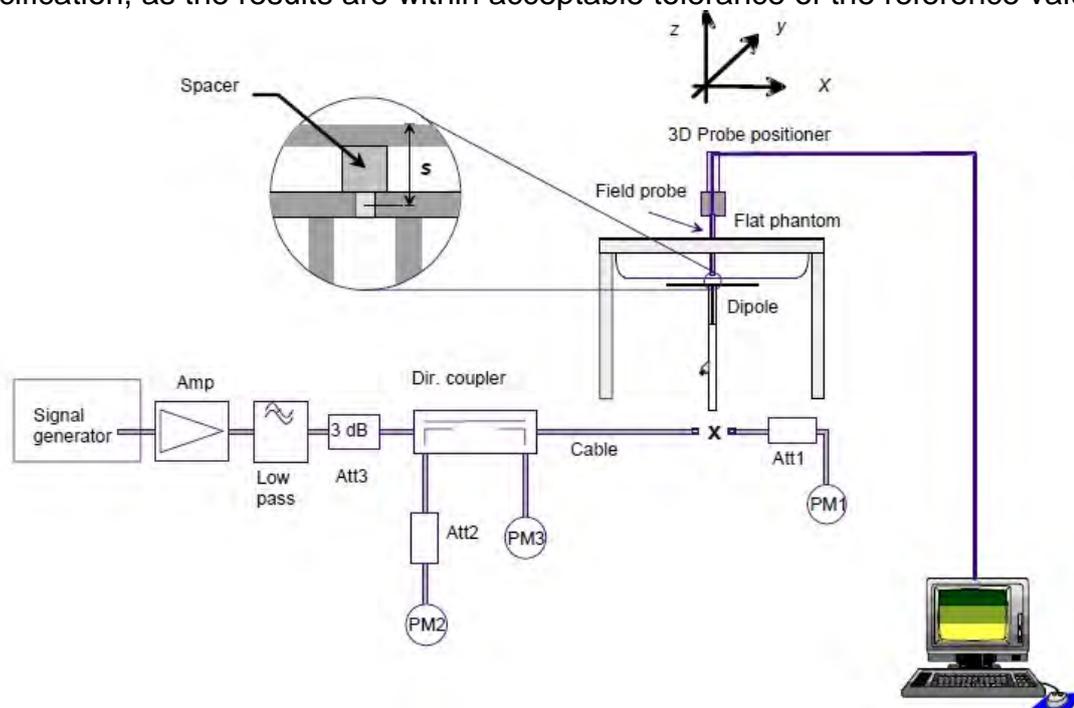


Fig. b The block diagram of system verification

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Validation Kit	S/N	Frequency (MHz)		1W Target SAR-1g (mW/g)	pin=250mW Measured SAR-1g (mW/g)	Measured SAR-1g normalized to 1W (mW/g)	Deviation (%)	Measured Date
D2450V2	727	2450	Head	53.9	13.30	53.2	-1.30%	Dec. 24, 2021
D2450V2	727	2450	Head	53.9	12.85	51.4	-4.64%	Jan. 08, 2022

Validation Kit	S/N	Frequency (MHz)		1W Target SAR-1g (mW/g)	Pin=100mW Measured SAR-1g (mW/g)	Measured SAR-1g normalized to 1W (mW/g)	Deviation (%)	Measured Date
D5GHzV2	1023	5200	Head	77.9	7.70	77	-1.16%	Dec. 25, 2021
		5300	Head	80.4	8.13	81.3	1.12%	Dec. 26, 2021
		5600	Head	83.9	8.48	84.8	1.07%	Dec. 27, 2021
		5800	Head	80.9	8.05	80.5	-0.49%	Dec. 28, 2021
D6.5GHzV2	1006	6500	Head	291	27.90	279	-4.12%	Jan. 11, 2022
D6.5GHzV2	1006	6500	Head	291	28.10	281	-3.44%	Jan. 20, 2022
D7GHzV2	1007	7000	Head	275	27.40	274	-0.36%	Jan. 11, 2022
D7GHzV2	1007	7000	Head	275	28.00	280	1.82%	Jan. 20, 2022

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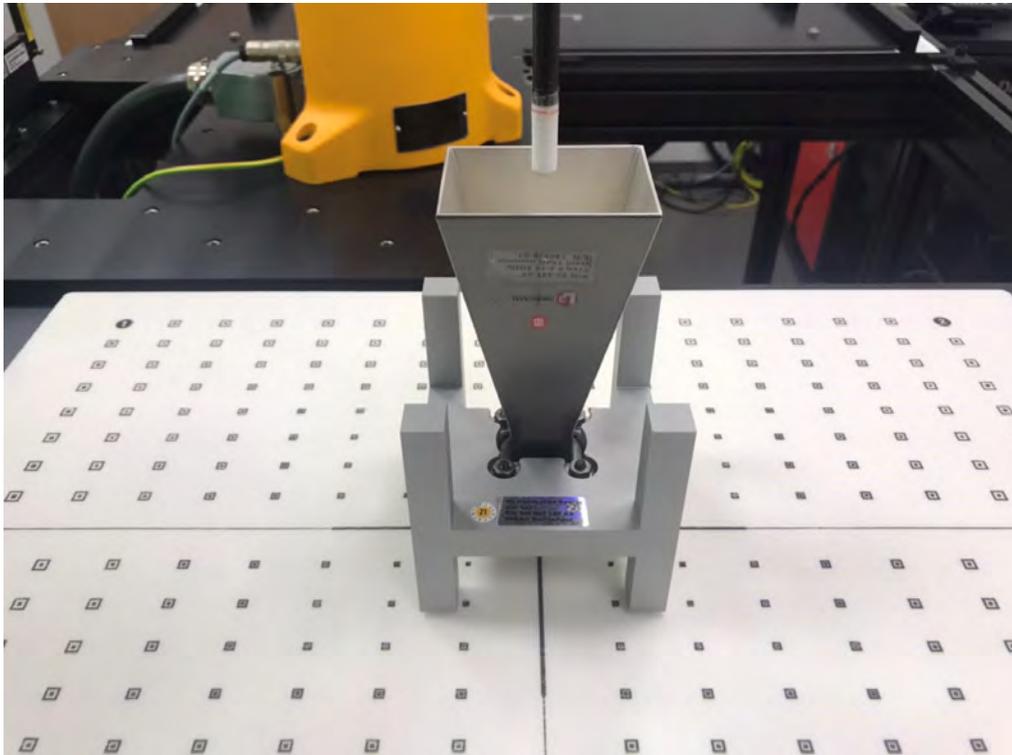
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Power Density Test System Verification

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 (GHz)	PD Verification Source	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
10G	10G	9579	1665	10	74	40.4	42.3	-0.20	Jan. 12, 2022

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1.9.3 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 $\geq 15 \text{ cm} \pm 5 \text{ mm}$ (Frequency $\leq 3\text{G}$) or $\geq 10 \text{ cm} \pm 5 \text{ mm}$ (Frequency $> 3\text{G}$) during all tests. (Fig. 2)

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Tissue Type	Measurement Date	Measured Frequency (MHz)	Target Dielectric Constant, ϵ_r	Target Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ_r	Measured Conductivity, σ (S/m)	% dev ϵ_r	% dev σ
Head	Dec. 24, 2021	2402	39.285	1.757	39.974	1.702	1.75%	-3.13%
		2412	39.268	1.766	39.949	1.711	1.74%	-3.13%
		2437	39.223	1.788	39.914	1.73	1.76%	-3.24%
		2441	39.216	1.792	39.909	1.733	1.77%	-3.29%
		2450	39.200	1.800	39.902	1.74	1.79%	-3.33%
		2462	39.185	1.813	39.886	1.749	1.79%	-3.53%
	Jan. 08, 2022	2480	39.147	1.827	39.868	1.762	1.84%	-3.56%
		2402	39.285	1.757	39.754	1.771	1.19%	0.80%
		2412	39.268	1.766	39.716	1.78	1.14%	0.78%
		2437	39.223	1.788	39.652	1.803	1.09%	0.84%
		2441	39.216	1.792	39.648	1.806	1.10%	0.78%
		2450	39.200	1.800	39.63	1.815	1.10%	0.83%
	Dec. 25, 2021	2462	39.185	1.813	39.612	1.827	1.09%	0.77%
		2480	39.147	1.827	39.567	1.843	1.07%	0.88%
		5190	35.997	4.645	36.221	4.635	0.62%	-0.22%
	Dec. 26, 2021	5200	35.986	4.655	36.217	4.646	0.64%	-0.19%
		5230	35.951	4.686	36.195	4.68	0.68%	-0.13%
		5270	35.906	4.727	36.097	4.732	0.53%	0.11%
	Dec. 27, 2021	5290	35.883	4.747	36.071	4.753	0.52%	0.12%
		5300	35.871	4.758	36.054	4.767	0.51%	0.20%
		5310	35.860	4.768	36.026	4.779	0.46%	0.24%
		5510	35.631	4.973	35.784	5.023	0.43%	1.01%
	Dec. 28, 2021	5530	35.609	4.993	35.738	5.043	0.36%	1.00%
		5590	35.540	5.055	35.631	5.104	0.26%	0.97%
		5600	35.529	5.065	35.596	5.116	0.19%	1.01%
		5610	35.517	5.075	35.577	5.131	0.17%	1.10%
		5670	35.449	5.137	35.423	5.203	-0.07%	1.29%
		5690	35.426	5.157	35.391	5.231	-0.10%	1.43%
		5710	35.403	5.178	35.368	5.253	-0.10%	1.45%
	Jan. 11, 2022	5745	35.363	5.214	35.263	5.291	-0.28%	1.48%
		5775	35.329	5.244	35.155	5.331	-0.49%	1.65%
		5785	35.317	5.255	35.038	5.341	-0.79%	1.64%
		5800	35.300	5.270	35.009	5.359	-0.82%	1.69%
		5825	35.271	5.296	34.978	5.385	-0.83%	1.69%
	Jan. 20, 2022	6025	35.038	5.504	34.654	5.455	-1.09%	-0.90%
		6185	34.851	5.692	34.486	5.643	-1.05%	-0.87%
		6345	34.664	5.880	34.311	5.827	-1.02%	-0.91%
		6500	34.483	6.063	34.121	6.008	-1.05%	-0.90%
		6505	34.478	6.068	34.115	6.013	-1.05%	-0.91%
		6665	34.291	6.256	33.921	6.194	-1.08%	-1.00%
		6985	33.918	6.632	33.739	6.678	-0.53%	0.69%
	Jan. 20, 2022	7000	33.900	6.650	33.541	6.582	-1.06%	-1.02%
		6025	35.070	5.504	34.831	5.568	-0.68%	1.16%
		6185	34.851	5.692	34.663	5.756	-0.54%	1.12%
		6345	34.664	5.880	34.488	5.940	-0.51%	1.01%
		6500	34.483	6.063	34.298	6.121	-0.54%	0.96%
		6505	34.478	6.068	34.292	6.126	-0.54%	0.95%
		6665	34.291	6.256	34.098	6.307	-0.56%	0.81%

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 HSL2450/5200/5300/5600/5800/6500/7000 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.

2.2 Summary of SAR Results

Tablet mode

High-Tek

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Plot page
									Measured	Reported	
WLAN 802.11b	Back Surface	0	1	2412	16.00	15.83	1.05	103.99%	0.114	0.125	-
	Top Edge	0	1	2412	16.00	15.83	1.05	103.99%	0.340	0.373	-
	Top Edge	0	6	2437	16.00	15.77	1.05	105.44%	0.327	0.363	-
	Top Edge	0	11	2462	16.00	15.74	1.05	106.17%	0.344	0.385	80
Bluetooth (GFSK)	Right Edge	0	1	2412	16.00	15.83	1.05	103.99%	0.054	0.059	-
	Back Surface	0	0	2402	11.50	11.42	1.33	101.86%	0.041	0.056	-
	Top Edge	0	0	2402	11.50	11.42	1.33	101.86%	0.126	0.170	81
WLAN 802.11n (40M) 5.2G	Right Edge	0	0	2402	11.50	11.42	1.33	101.86%	0.010	0.013	-
	Back Surface	0	46	5230	15.00	14.93	1.07	101.62%	0.122	0.132	-
	Top Edge	0	46	5230	15.00	14.93	1.07	101.62%	0.383	0.415	82
WLAN 802.11ac (80M) 5.3G	Right Edge	0	46	5230	15.00	14.93	1.07	101.62%	0.065	0.071	-
	Back Surface	0	58	5230	14.50	14.36	1.09	103.28%	0.186	0.208	-
	Top Edge	0	58	5230	14.50	14.36	1.09	103.28%	0.396	0.444	83
WLAN 802.11ac (80M) 5.6G	Right Edge	0	58	5290	14.50	14.36	1.09	103.28%	0.097	0.108	-
	Back Surface	0	138	5690	14.50	14.41	1.09	102.09%	0.221	0.245	-
	Top Edge	0	138	5690	14.50	14.41	1.09	102.09%	0.573	0.635	84
WLAN 802.11ac (80M) 5.8G	Right Edge	0	138	5690	14.50	14.41	1.09	102.09%	0.105	0.116	-
	Back Surface	0	155	5775	15.00	14.84	1.09	103.75%	0.234	0.263	-
	Top Edge	0	155	5775	15.00	14.84	1.09	103.75%	0.609	0.686	85
WLAN 802.11ac (80M) 5.8G	Right Edge	0	155	5775	15.00	14.84	1.09	103.75%	0.113	0.127	-
	Back Surface	0	11	2462	16.00	15.84	1.05	103.75%	0.133	0.145	-
	Top Edge	0	1	2412	16.00	15.84	1.05	103.75%	0.467	0.535	86
WLAN 802.11b	Top Edge	0	6	2437	16.00	15.81	1.05	109.40%	0.421	0.485	-
	Top Edge	0	11	2462	16.00	15.84	1.05	103.75%	0.396	0.433	-
	Left Edge	0	11	2462	16.00	15.84	1.05	103.75%	0.074	0.081	-
	Left Edge	0	11	2462	16.00	15.84	1.05	103.75%	0.074	0.081	-
WLAN 802.11n (40M) 5.2G	Back Surface	0	46	5230	15.00	14.93	1.07	101.62%	0.105	0.114	-
	Top Edge	0	46	5230	15.00	14.93	1.07	101.62%	0.327	0.354	87
	Left Edge	0	46	5230	15.00	14.93	1.07	101.62%	0.076	0.083	-
WLAN 802.11ac (80M) 5.3G	Back Surface	0	58	5230	14.50	14.15	1.09	108.39%	0.087	0.103	-
	Top Edge	0	58	5230	14.50	14.15	1.09	108.39%	0.292	0.343	88
	Left Edge	0	58	5290	14.50	14.15	1.09	108.39%	0.042	0.050	-
WLAN 802.11ac (80M) 5.6G	Back Surface	0	106	5530	14.50	14.44	1.09	101.39%	0.103	0.113	-
	Top Edge	0	106	5530	14.50	14.44	1.09	101.39%	0.326	0.359	89
	Left Edge	0	106	5530	14.50	14.44	1.09	101.39%	0.037	0.040	-
WLAN 802.11ac (80M) 5.8G	Back Surface	0	155	5775	15.00	14.92	1.09	101.86%	0.147	0.162	-
	Top Edge	0	155	5775	15.00	14.92	1.09	101.86%	0.521	0.576	90
	Left Edge	0	155	5775	15.00	14.92	1.09	101.86%	0.067	0.074	-

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WNC

WLAN Tx1

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power - Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Plot page
									Measured	Reported	
WLAN 802.11b	Back Surface	0	1	2412	16.00	15.83	1.05	103.99%	0.067	0.074	-
	Top Edge	0	1	2412	16.00	15.83	1.05	103.99%	0.106	0.116	91
	Top Edge	0	6	2437	16.00	15.77	1.05	105.44%	0.085	0.094	-
	Top Edge	0	11	2462	16.00	15.74	1.05	106.17%	0.066	0.073	-
	Right Edge	0	1	2412	16.00	15.83	1.05	103.99%	0.042	0.046	-
Bluetooth (GFSK)	Back Surface	0	0	2402	11.50	11.42	1.33	101.86%	0.046	0.062	-
	Top Edge	0	0	2402	11.50	11.42	1.33	101.86%	0.143	0.193	92
	Top Edge	0	39	2441	11.50	11.31	1.33	104.47%	0.034	0.047	-
WLAN 802.11n (40M) 5.2G	Right Edge	0	0	2402	11.50	11.42	1.33	101.86%	0.067	0.090	-
	Back Surface	0	46	5230	15.00	14.93	1.07	101.62%	0.105	0.114	-
	Top Edge	0	38	5190	15.00	14.68	1.07	107.65%	0.027	0.031	-
WLAN 802.11ac (80M) 5.3G	Top Edge	0	46	5230	15.00	14.93	1.07	101.62%	0.238	0.258	93
	Back Surface	0	46	5230	15.00	14.93	1.07	101.62%	0.086	0.094	-
	Right Edge	0	58	5290	14.50	14.36	1.09	103.28%	0.103	0.115	-
WLAN 802.11ac (80M) 5.6G	Top Edge	0	58	5290	14.50	14.36	1.09	103.28%	0.276	0.309	94
	Right Edge	0	58	5290	14.50	14.36	1.09	103.28%	0.005	0.005	-
	Back Surface	0	138	5690	14.50	14.41	1.09	102.09%	0.149	0.165	-
WLAN 802.11ac (80M) 5.9G	Top Edge	0	138	5690	14.50	14.41	1.09	102.09%	0.339	0.376	95
	Right Edge	0	138	5690	14.50	14.41	1.09	102.09%	0.102	0.113	-
	Back Surface	0	155	5775	15.00	14.84	1.09	103.75%	0.195	0.220	-
WLAN 802.11ac (80M) 5.9G	Top Edge	0	155	5775	15.00	14.84	1.09	103.75%	0.424	0.477	96
	Right Edge	0	155	5775	15.00	14.84	1.09	103.75%	0.113	0.127	-

WLAN Tx2

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power - Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Plot page
									Measured	Reported	
WLAN 802.11b	Back Surface	0	11	2462	16.00	15.84	1.05	103.75%	0.109	0.119	-
	Top Edge	0	1	2412	16.00	15.64	1.05	108.64%	0.328	0.376	-
	Top Edge	0	6	2437	16.00	15.61	1.05	109.40%	0.332	0.383	-
	Top Edge	0	11	2462	16.00	15.84	1.05	103.75%	0.357	0.390	97
	Left Edge	0	11	2462	16.00	15.84	1.05	103.75%	0.067	0.074	-
WLAN 802.11n (40M) 5.2G	Back Surface	0	46	5230	15.00	14.93	1.07	101.62%	0.127	0.138	-
	Top Edge	0	46	5230	15.00	14.93	1.07	101.62%	0.480	0.520	98
	Left Edge	0	46	5230	15.00	14.93	1.07	101.62%	0.101	0.109	-
WLAN 802.11ac (80M) 5.3G	Back Surface	0	58	5290	14.50	14.15	1.09	108.39%	0.105	0.123	-
	Top Edge	0	58	5290	14.50	14.15	1.09	108.39%	0.367	0.432	99
	Left Edge	0	58	5290	14.50	14.15	1.09	108.39%	0.089	0.105	-
WLAN 802.11ac (80M) 5.6G	Back Surface	0	106	5530	14.50	14.44	1.09	101.39%	0.115	0.127	-
	Top Edge	0	106	5530	14.50	14.44	1.09	101.39%	0.430	0.473	100
	Left Edge	0	106	5530	14.50	14.44	1.09	101.39%	0.067	0.074	-
WLAN 802.11ac (80M) 5.8G	Back Surface	0	155	5775	15.00	14.92	1.09	101.86%	0.118	0.130	-
	Top Edge	0	155	5775	15.00	14.92	1.09	101.86%	0.487	0.538	101
	Left Edge	0	155	5775	15.00	14.92	1.09	101.86%	0.074	0.082	-

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Book mode

High-Tek

WLAN Tx1

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Plot page
									Measured	Reported	
WLAN 802.11b	Right Edge	0	1	2412	16.00	15.83	1.05	103.99%	0.052	0.056	102
	Right Edge	0	6	2437	16.00	15.77	1.05	105.44%	0.038	0.042	-
	Right Edge	0	11	2462	16.00	15.74	1.05	106.17%	0.046	0.051	-
Bluetooth (GFSK)	Right Edge	0	0	2402	11.50	11.42	1.33	101.86%	0.029	0.040	103
WLAN 802.11n (40M) 5.2G	Right Edge	0	46	5230	15.00	14.93	1.07	101.62%	0.020	0.022	104
WLAN 802.11ac (80M) 5.3G	Right Edge	0	58	5290	14.50	14.36	1.09	103.28%	0.117	0.131	105
WLAN 802.11ac (80M) 5.6G	Right Edge	0	138	5690	14.50	14.41	1.09	102.09%	0.050	0.055	106
WLAN 802.11ac (80M) 5.8G	Right Edge	0	155	5775	15.00	14.84	1.09	103.75%	0.079	0.089	107

WLAN Tx2

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Plot page
									Measured	Reported	
WLAN 802.11b	Left Edge	0	1	2412	16.00	15.64	1.05	108.64%	0.021	0.024	-
	Left Edge	0	6	2437	16.00	15.61	1.05	109.40%	0.017	0.020	-
	Left Edge	0	11	2462	16.00	15.84	1.05	103.75%	0.023	0.025	108
WLAN 802.11n (40M) 5.2G	Left Edge	0	46	5230	15.00	14.93	1.07	101.62%	0.044	0.047	109
WLAN 802.11ac (80M) 5.3G	Left Edge	0	58	5290	14.50	14.15	1.09	108.39%	0.031	0.037	110
WLAN 802.11ac (80M) 5.6G	Left Edge	0	106	5530	14.50	14.44	1.09	101.39%	0.033	0.036	111
WLAN 802.11ac (80M) 5.8G	Left Edge	0	155	5775	15.00	14.92	1.09	101.86%	0.042	0.047	112

WNC

WLAN Tx1

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Plot page
									Measured	Reported	
WLAN 802.11b	Right Edge	0	1	2412	16.00	15.83	1.05	103.99%	0.026	0.029	113
	Right Edge	0	6	2437	16.00	15.77	1.05	105.44%	0.015	0.017	-
	Right Edge	0	11	2462	16.00	15.74	1.05	106.17%	0.022	0.025	-
Bluetooth (GFSK)	Right Edge	0	0	2402	11.50	11.42	1.33	101.86%	0.005	0.006	114
WLAN 802.11n (40M) 5.2G	Right Edge	0	46	5230	15.00	14.93	1.07	101.62%	0.049	0.053	115
WLAN 802.11ac (80M) 5.3G	Right Edge	0	58	5290	14.50	14.36	1.09	103.28%	0.049	0.054	116
WLAN 802.11ac (80M) 5.6G	Right Edge	0	138	5690	14.50	14.41	1.09	102.09%	0.046	0.051	117
WLAN 802.11ac (80M) 5.8G	Right Edge	0	155	5775	15.00	14.84	1.09	103.75%	0.018	0.020	118

WLAN Tx2

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Plot page
									Measured	Reported	
WLAN 802.11b	Left Edge	0	1	2412	16.00	15.64	1.05	108.64%	0.042	0.048	-
	Left Edge	0	6	2437	16.00	15.61	1.05	109.40%	0.046	0.053	-
	Left Edge	0	11	2462	16.00	15.84	1.05	103.75%	0.055	0.060	119
WLAN 802.11n (40M) 5.2G	Left Edge	0	46	5230	15.00	14.93	1.07	101.62%	0.041	0.044	120
WLAN 802.11ac (80M) 5.3G	Left Edge	0	58	5290	14.50	14.15	1.09	108.39%	0.022	0.026	121
WLAN 802.11ac (80M) 5.6G	Left Edge	0	106	5530	14.50	14.44	1.09	101.39%	0.033	0.037	122
WLAN 802.11ac (80M) 5.8G	Left Edge	0	155	5775	15.00	14.92	1.09	101.86%	0.047	0.051	123

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WIFI 6E

Tablet mode

High-Tek

WLAN Tx1

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)	Plot page
									Measured	Reported		
U-NI-5 6.2GHz 802.11ax(160M)	Back Surface	0	79	6345	9.50	9.29	1.17	104.95%	0.028	0.034	0.0192	-
	Top Edge	0	47	6185	9.00	8.76	1.17	105.68%	0.078	0.096	0.0497	-
	Top Edge	0	79	6345	9.50	9.29	1.17	104.95%	0.084	0.103	0.0537	124
U-NI-6 6.5GHz 802.11ax(160M)	Back Surface	0	111	6505	9.50	9.01	1.17	111.94%	0.023	0.030	0.0136	-
	Top Edge	0	111	6505	9.50	9.01	1.17	111.94%	0.071	0.093	0.0458	125
	Right Edge	0	111	6505	9.50	9.01	1.17	111.94%	0.007	0.009	0.00475	-
U-NI-7 6.7GHz 802.11ax(160M)	Back Surface	0	143	6665	9.00	8.98	1.17	100.46%	0.026	0.030	0.0178	-
	Top Edge	0	143	6665	9.00	8.98	1.17	100.46%	0.079	0.091	0.0489	126
	Right Edge	0	143	6665	9.00	8.98	1.17	100.46%	0.011	0.013	0.00624	-
U-NI-8 7.0GHz 802.11ax(160M)	Back Surface	0	207	6985	9.50	9.14	1.05	108.64%	0.025	0.029	0.0173	-
	Top Edge	0	207	6985	9.50	9.14	1.05	108.64%	0.072	0.082	0.0476	127
	Right Edge	0	207	6985	9.50	9.14	1.05	108.64%	0.009	0.010	0.00563	-

WLAN Tx2

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)	Plot page
									Measured	Reported		
U-NI-5 6.2GHz 802.11ax(160M)	Back Surface	0	79	6345	9.50	9.11	1.17	109.40%	0.031	0.040	0.0228	-
	Top Edge	0	15	6025	9.00	8.87	1.17	103.04%	0.066	0.079	0.0467	-
	Top Edge	0	79	6345	9.50	9.11	1.17	109.40%	0.092	0.117	0.0594	128
U-NI-6 6.5GHz 802.11ax(160M)	Left Edge	0	79	6345	9.50	9.11	1.17	109.40%	0.014	0.018	0.0116	-
	Back Surface	0	111	6505	9.50	9.28	1.17	105.20%	0.036	0.044	0.0249	-
	Top Edge	0	111	6505	9.50	9.28	1.17	105.20%	0.102	0.125	0.0669	129
U-NI-7 6.7GHz 802.11ax(160M)	Left Edge	0	111	6505	9.50	9.28	1.17	105.20%	0.017	0.021	0.0138	-
	Back Surface	0	143	6665	9.00	8.98	1.17	105.68%	0.033	0.041	0.0237	-
	Top Edge	0	143	6665	9.00	8.76	1.17	105.68%	0.094	0.118	0.0585	130
U-NI-8 7.0GHz 802.11ax(160M)	Left Edge	0	143	6665	9.00	8.76	1.17	105.68%	0.015	0.018	0.0118	-
	Back Surface	0	207	6985	9.50	9.13	1.05	108.89%	0.025	0.029	0.0189	-
	Top Edge	0	207	6985	9.50	9.13	1.05	108.89%	0.079	0.091	0.053	131
U-NI-8 7.0GHz 802.11ax(160M)	Left Edge	0	207	6985	9.50	9.13	1.05	108.89%	0.010	0.011	0.00623	-

WNC

WLAN Tx1

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)	Plot page
									Measured	Reported		
U-NI-5 6.2GHz 802.11ax(160M)	Back Surface	0	79	6345	9.50	9.29	1.17	104.95%	0.038	0.047	0.0263	-
	Top Edge	0	47	6185	9.00	8.76	1.17	105.68%	0.069	0.085	0.0439	-
	Top Edge	0	79	6345	9.50	9.29	1.17	104.95%	0.076	0.093	0.0448	132
U-NI-6 6.5GHz 802.11ax(160M)	Left Edge	0	79	6345	9.50	9.28	1.17	104.95%	0.016	0.020	0.0124	-
	Back Surface	0	111	6505	9.50	9.01	1.17	111.94%	0.047	0.061	0.0335	-
	Top Edge	0	111	6505	9.50	9.01	1.17	111.94%	0.089	0.116	0.0542	133
U-NI-7 6.7GHz 802.11ax(160M)	Right Edge	0	111	6505	9.50	9.01	1.17	111.94%	0.025	0.033	0.0198	-
	Back Surface	0	143	6665	9.00	8.98	1.17	100.46%	0.039	0.046	0.0247	-
	Top Edge	0	143	6665	9.00	8.98	1.17	100.46%	0.080	0.094	0.0532	134
U-NI-8 7.0GHz 802.11ax(160M)	Left Edge	0	143	6665	9.00	8.76	1.17	105.68%	0.015	0.018	0.0118	-
	Back Surface	0	207	6985	9.50	9.14	1.05	108.64%	0.027	0.031	0.0187	-
	Top Edge	0	207	6985	9.50	9.14	1.05	108.64%	0.068	0.078	0.0441	135
U-NI-8 7.0GHz 802.11ax(160M)	Left Edge	0	207	6985	9.50	9.14	1.05	108.64%	0.008	0.009	0.0051	-

WLAN Tx2

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)	Plot page
									Measured	Reported		
U-NI-5 6.2GHz 802.11ax(160M)	Back Surface	0	79	6345	9.50	9.11	1.17	109.40%	0.028	0.036	0.0199	-
	Top Edge	0	15	6025	9.00	8.87	1.17	103.04%	0.093	0.112	0.0649	136
	Top Edge	0	79	6345	9.50	9.11	1.17	109.40%	0.085	0.109	0.0559	-
U-NI-6 6.5GHz 802.11ax(160M)	Left Edge	0	79	6345	9.50	9.11	1.17	109.40%	0.016	0.020	0.0114	-
	Back Surface	0	111	6505	9.50	9.28	1.17	105.20%	0.031	0.038	0.0206	-
	Top Edge	0	111	6505	9.50	9.28	1.17	105.20%	0.088	0.108	0.058	137
U-NI-7 6.7GHz 802.11ax(160M)	Left Edge	0	111	6505	9.50	9.28	1.17	105.20%	0.018	0.022	0.0123	-
	Back Surface	0	143	6665	9.00	8.76	1.17	105.68%	0.034	0.042	0.0225	-
	Top Edge	0	143	6665	9.00	8.76	1.17	105.68%	0.096	0.118	0.0548	138
U-NI-8 7.0GHz 802.11ax(160M)	Left Edge	0	143	6665	9.00	8.76	1.17	105.68%	0.019	0.023	0.0129	-
	Back Surface	0	207	6985	9.50	9.13	1.05	108.89%	0.027	0.031	0.0177	-
	Top Edge	0	207	6985	9.50	9.13	1.05	108.89%	0.085	0.098	0.0556	139
U-NI-8 7.0GHz 802.11ax(160M)	Left Edge	0	207	6985	9.50	9.13	1.05	108.89%	0.013	0.015	0.0083	-

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Book mode

High-Tek

WLAN Tx1

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)	Plot page
									Measured	Reported		
U-NI-5 6.2GHz 802.11ax (160M)	Right Edge	0	47	6185	9.00	8.76	1.17	105.68%	0.056	0.069	0.042	-
	Right Edge	0	79	6345	9.50	9.29	1.17	104.95%	0.068	0.083	0.052	140
U-NI-6 6.5GHz 802.11ax (160M)	Right Edge	0	111	6505	9.50	9.01	1.17	111.94%	0.067	0.088	0.0496	141
U-NI-7 6.7GHz	Right Edge	0	143	6665	9.00	8.98	1.17	100.46%	0.071	0.083	0.0524	142
U-NI-8 7.0GHz 802.11ax (160M)	Right Edge	0	207	6985	9.50	9.14	1.05	108.64%	0.061	0.070	0.047	143

WLAN Tx2

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)	Plot page
									Measured	Reported		
U-NI-5 6.2GHz 802.11ax (160M)	Left Edge	0	15	6025	9.00	8.87	1.17	103.04%	0.029	0.035	0.0171	-
	Left Edge	0	79	6345	9.50	9.11	1.17	109.40%	0.033	0.042	0.0191	144
U-NI-6 6.5GHz 802.11ax (160M)	Left Edge	0	111	6505	9.50	9.28	1.17	105.20%	0.037	0.045	0.0243	145
U-NI-7 6.7GHz 802.11ax (160M)	Left Edge	0	143	6665	9.00	8.76	1.17	105.68%	0.045	0.055	0.03	146
U-NI-8 7.0GHz 802.11ax (160M)	Left Edge	0	207	6985	9.50	9.13	1.05	108.89%	0.055	0.063	0.0375	147

WNC

WLAN Tx1

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)	Plot page
									Measured	Reported		
U-NI-5 6.2GHz 802.11ax (160M)	Right Edge	0	47	6185	9.00	8.76	1.17	105.68%	0.041	0.051	0.0315	-
	Right Edge	0	79	6345	9.50	9.29	1.17	104.95%	0.050	0.061	0.0372	148
U-NI-6 6.5GHz 802.11ax (160M)	Right Edge	0	111	6505	9.50	9.01	1.17	111.94%	0.062	0.081	0.0468	149
U-NI-7 6.7GHz 802.11ax (160M)	Right Edge	0	143	6665	9.00	8.98	1.17	100.46%	0.060	0.070	0.044	150
U-NI-8 7.0GHz 802.11ax (160M)	Right Edge	0	207	6985	9.50	9.14	1.05	108.64%	0.048	0.055	0.0348	151

WLAN Tx2

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)	Plot page
									Measured	Reported		
U-NI-5 6.2GHz 802.11ax (160M)	Left Edge	0	15	6025	9.00	8.87	1.17	103.04%	0.022	0.026	0.0158	-
	Left Edge	0	47	6185	9.00	8.79	1.17	104.95%	0.026	0.032	0.0177	152
U-NI-6 6.5GHz 802.11ax (160M)	Left Edge	0	111	6505	9.50	9.28	1.17	105.20%	0.046	0.056	0.0303	153
U-NI-7 6.7GHz 802.11ax (160M)	Left Edge	0	143	6665	9.00	8.76	1.17	105.68%	0.065	0.080	0.0511	154
U-NI-8 7.0GHz 802.11ax (160M)	Left Edge	0	207	6985	9.50	9.13	1.05	108.89%	0.048	0.055	0.0348	155

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2.3 Summary of PD Results

Tablet mode High-Tek

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)				Plot page
										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 802.11ax(160M) U-NII-5	Bottom Surface	2	47	6185	9	8.76	105.68%	1.117	1.55	0.039	0.070	0.033	0.060	156
	Bottom Surface	2	79	6345	9.5	9.29	104.95%	1.117	1.55	0.037	0.068	0.033	0.060	157
WLAN 802.11ax(160M) U-NII-6	Bottom Surface	2	111	6505	9.5	9.01	111.94%	1.117	1.55	0.036	0.071	0.032	0.063	158
WLAN 802.11ax(160M) U-NII-7	Bottom Surface	2	143	6665	9	8.98	100.46%	1.117	1.55	0.032	0.055	0.030	0.051	159
WLAN 802.11ax(160M) U-NII-8	Bottom Surface	2	207	6985	9.5	9.14	108.64%	1.117	1.55	0.014	0.027	0.011	0.021	160

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)				Plot page
										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 802.11ax(160M) U-NII-5	Bottom Surface	2	15	6025	9	8.87	103.04%	1.117	1.55	0.032	0.057	0.027	0.048	161
	Bottom Surface	2	79	6345	9.5	9.11	109.40%	1.117	1.55	0.019	0.036	0.017	0.032	162
WLAN 802.11ax(160M) U-NII-6	Bottom Surface	2	111	6505	9.5	9.28	105.20%	1.117	1.55	0.042	0.077	0.038	0.069	163
WLAN 802.11ax(160M) U-NII-7	Bottom Surface	2	143	6665	9	8.76	105.68%	1.117	1.55	0.032	0.058	0.030	0.055	164
WLAN 802.11ax(160M) U-NII-8	Bottom Surface	2	207	6985	9.5	9.13	108.89%	1.117	1.55	0.030	0.056	0.027	0.051	165

WNC

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)				Plot page
										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 802.11ax(160M) U-NII-5	Bottom Surface	2	47	6185	9	8.76	105.68%	1.117	1.55	0.055	0.101	0.045	0.083	166
	Bottom Surface	2	79	6345	9.5	9.29	104.95%	1.117	1.55	0.012	0.021	0.009	0.016	167
WLAN 802.11ax(160M) U-NII-6	Bottom Surface	2	111	6505	9.5	9.01	111.94%	1.117	1.55	0.073	0.141	0.063	0.123	168
WLAN 802.11ax(160M) U-NII-7	Bottom Surface	2	143	6665	9	8.98	100.46%	1.117	1.55	0.036	0.063	0.030	0.052	169
WLAN 802.11ax(160M) U-NII-8	Bottom Surface	2	207	6985	9.5	9.14	108.64%	1.117	1.55	0.032	0.061	0.028	0.052	170

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)				Plot page
										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 802.11ax(160M) U-NII-5	Bottom Surface	2	15	6025	9	8.87	103.04%	1.117	1.55	0.009	0.017	0.005	0.009	171
	Bottom Surface	2	79	6345	9.5	9.11	109.40%	1.117	1.55	0.018	0.035	0.015	0.027	172
WLAN 802.11ax(160M) U-NII-6	Bottom Surface	2	111	6505	9.5	9.28	105.20%	1.117	1.55	0.017	0.031	0.015	0.028	173
WLAN 802.11ax(160M) U-NII-7	Bottom Surface	2	143	6665	9	8.76	105.68%	1.117	1.55	0.015	0.027	0.012	0.022	174
WLAN 802.11ax(160M) U-NII-8	Bottom Surface	2	207	6985	9.5	9.13	108.89%	1.117	1.55	0.021	0.039	0.014	0.027	175

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Note:

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

Reported SAR = measured SAR * (scaling)

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

2.4 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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3. Simultaneous Transmission Analysis

Simultaneous Transmission Scenarios:

Simultaneous Transmit Configurations	Body
WLAN 2.4GHz Tx1 + WLAN 2.4GHz Tx2 + BT Tx1	Yes
WLAN 5GHz Tx1 + WLAN 5GHz Tx2 + BT Tx1	Yes
WLAN 6E Tx1 + WLAN 6E Tx2 + BT Tx1	Yes

Note:

1. Bluetooth and WLAN Tx1 share the same antenna path, and BT can transmit with WLAN Tx2 simultaneously.
2. For 2.4/5/6GHz WLAN Tx1 and Tx2 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

High-Tek			Reported SAR							Scenario 1	Scenario 2	Scenario 3
Exposure Position	Distance (mm)	Reported SAR							Summed	Summed	Summed	
		1	2	3	4	5	6	7				
		2.4GHz WLAN Tx1 1g SAR (W/kg)	2.4GHz WLAN Tx2 1g SAR (W/kg)	5GHz WLAN Tx1 1g SAR (W/kg)	5GHz WLAN Tx2 1g SAR (W/kg)	6GHz WLAN Tx1 1g SAR (W/kg)	6GHz WLAN Tx2 1g SAR (W/kg)	Bluetooth Tx1 1g SAR (W/kg)				
Tablet mode	Back Surface	0	0.125	0.145	0.263	0.162	0.034	0.044	0.056	0.326	0.481	0.134
	Top Edge	0	0.385	0.535	0.686	0.576	0.103	0.125	0.170	1.090	1.432	0.398
	Left Edge	0	-	0.081	-	0.083	-	0.021	-	0.081	0.083	0.021
	Right Edge	0	0.059	-	0.127	-	0.016	-	0.013	0.072	0.140	0.029

WNC			Reported SAR							Scenario 1	Scenario 2	Scenario 3
Exposure Position	Distance (mm)	Reported SAR							Summed	Summed	Summed	
		1	2	3	4	5	6	7				
		2.4GHz WLAN Tx1 1g SAR (W/kg)	2.4GHz WLAN Tx2 1g SAR (W/kg)	5GHz WLAN Tx1 1g SAR (W/kg)	5GHz WLAN Tx2 1g SAR (W/kg)	6GHz WLAN Tx1 1g SAR (W/kg)	6GHz WLAN Tx2 1g SAR (W/kg)	Bluetooth Tx1 1g SAR (W/kg)				
Tablet mode	Back Surface	0	0.074	0.119	0.220	0.138	0.061	0.042	0.062	0.255	0.420	0.165
	Top Edge	0	0.116	0.390	0.477	0.538	0.116	0.118	0.193	0.699	1.208	0.427
	Left Edge	0	-	0.074	-	0.109	-	0.023	-	0.074	0.109	0.023
	Right Edge	0	0.046	-	0.127	-	0.033	-	0.090	0.136	0.217	0.123

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4. Instruments List

Manufacturer	Device	Type	Serial number	Date of last calibration	Date of next calibration
SPEAG	Dosimetric E-Field Probe	EX3DV4	3770	Apr.28,2021	Apr.27,2022
			7375	Dec.20,2021	Dec.19,2022
		EUmmWV4	9579	Oct.06,2021	Oct.05,2022
SPEAG	System Validation Dipole	D2450V2	727	Apr.14,2021	Apr.13,2022
		D5GHzV2	1023	Jan.26,2021	Jan.25,2022
		D6.5GHzV2	1006	Aug.26,2021	Aug.25,2022
		D7GHzV2	1007	Aug.26,2021	Aug.25,2022
		5G-Veri10	1021	Jan.18,2021	Jan.17,2022
SPEAG	Data acquisition Electronics	DAE4	856	Apr.23,2021	Apr.22,2022
			1665	Mar.01,2021	Feb.28,2022
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
		mmWave			
SPEAG	Dielectric Assessment Kit	DAKS-3.5	1053	Feb.17,2021	Feb.16,2022
Agilent	Dual-directional coupler	772D	MY46151242	Aug.16,2021	Aug.15,2022
		778D	MY48220468	Aug.16,2021	Aug.15,2022
Agilent	Signal Generator	N5181A	MY50141235	May.30,2021	May.29,2022
Agilent	Power Meter	E4417A	MY51410006	Mar.23,2021	Mar.22,2022
Agilent	Power Sensor	E9301H	MY51470001	Mar.23,2021	Mar.22,2022
			MY51470002	Mar.23,2021	Mar.22,2022
TECPEL	Digital thermometer	DTM-303A	TP130074	Apr.26,2021	Apr.25,2022
R&S	Power Sensor	NRP18S	101974	Oct.12,2021	Oct.11,2022

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5. Measurements

Date: 2021/12/24

Report No. :EN/2021/C0024

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

Communication System: WLAN 2.45G; Frequency: 2462 MHz; Duty cycle= 1:1.054

Medium parameters used: $f = 2462$ MHz; $\sigma = 1.749$ S/m; $\epsilon_r = 39.886$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.1°C

DASY5 Configuration:

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

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

Maximum value of SAR (interpolated) = 0.528 W/kg

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

Reference Value = 2.272 V/m; Power Drift = -0.16 dB

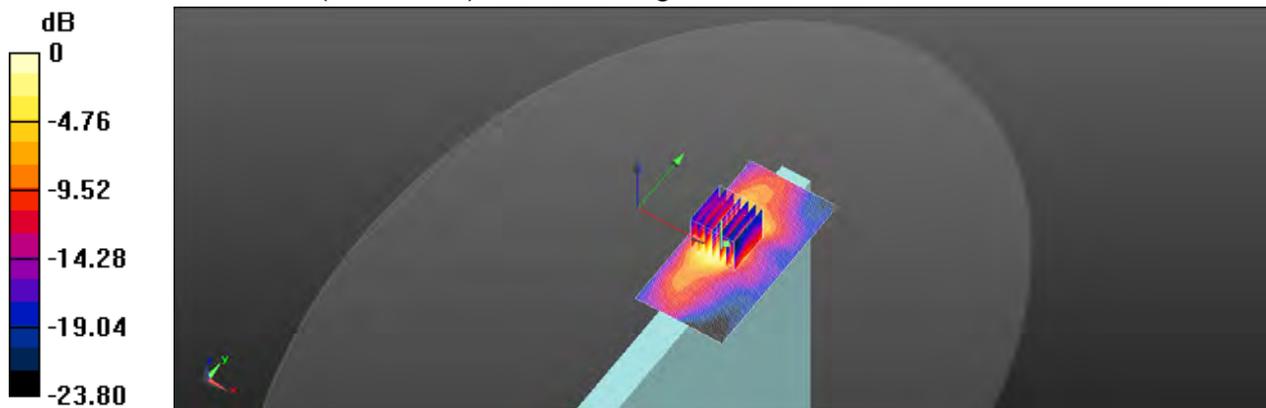
Peak SAR (extrapolated) = 0.746 W/kg

SAR(1 g) = 0.344 W/kg; SAR(10 g) = 0.149 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 50.8%

Maximum value of SAR (measured) = 0.499 W/kg



0 dB = 0.499 W/kg = -3.02 dBW/kg

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Date: 2021/12/24

Report No. :EN/2021/C0024

Bluetooth(GFSK), Body, Top Edge, CH 0, 0mm, Tx1, High-Tek

Communication System: Bluetooth; Frequency: 2402 MHz; Duty cycle= 1:1.325

Medium parameters used: $f = 2402$ MHz; $\sigma = 1.702$ S/m; $\epsilon_r = 39.974$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.67, 7.67, 7.67) @ 2402 MHz; Calibrated: 2021/4/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2021/4/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 0.217 W/kg

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

Reference Value = 3.211 V/m; Power Drift = 0.16 dB

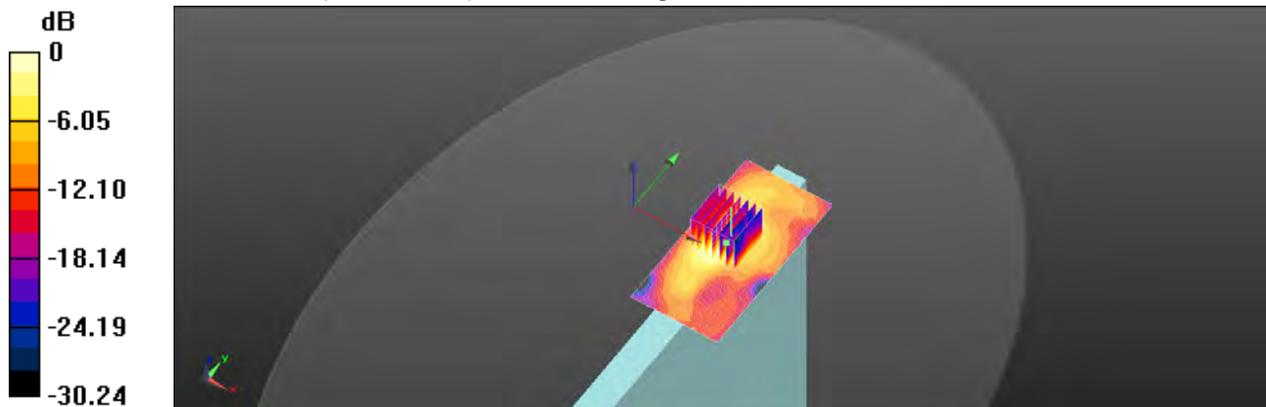
Peak SAR (extrapolated) = 0.328 W/kg

SAR(1 g) = 0.126 W/kg; SAR(10 g) = 0.051 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 44.9%

Maximum value of SAR (measured) = 0.195 W/kg



0 dB = 0.195 W/kg = -7.10 dBW/kg

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Date: 2021/12/25

Report No. :EN/2021/C0024

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

Communication System: WLAN 5G; Frequency: 5230 MHz; Duty cycle= 1:1.066

Medium parameters used: $f = 5230$ MHz; $\sigma = 4.68$ S/m; $\epsilon_r = 36.195$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

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

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

Maximum value of SAR (interpolated) = 0.713 W/kg

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

Reference Value = 2.551 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 2.00 W/kg

SAR(1 g) = 0.383 W/kg; SAR(10 g) = 0.099 W/kg

Smallest distance from peaks to all points 3 dB below = 4.3 mm

Ratio of SAR at M2 to SAR at M1 = 54.7%

Maximum value of SAR (measured) = 0.808 W/kg

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

Reference Value = 2.551 V/m; Power Drift = 0.12 dB

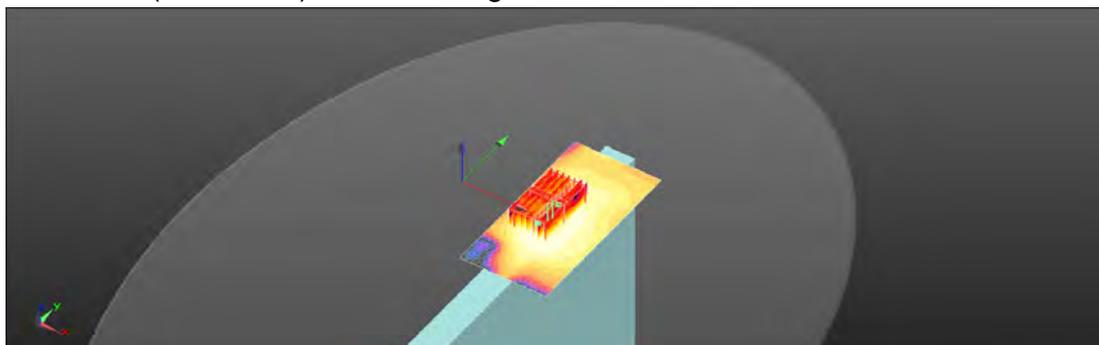
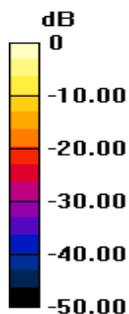
Peak SAR (extrapolated) = 1.41 W/kg

SAR(1 g) = 0.287 W/kg; SAR(10 g) = 0.096 W/kg

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

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

Maximum value of SAR (measured) = 0.602 W/kg



0 dB = 0.602 W/kg = -2.20 dBW/kg

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Date: 2021/12/26

Report No. :EN/2021/C0024

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

Communication System: WLAN 5G; Frequency: 5290 MHz; Duty cycle= 1:1.085

Medium parameters used: $f = 5290$ MHz; $\sigma = 4.753$ S/m; $\epsilon_r = 36.071$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 21.6°C; Liquid temperature: 22.0°C

DASY5 Configuration:

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

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

Maximum value of SAR (interpolated) = 0.693 W/kg

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

Reference Value = 2.168 V/m; Power Drift = -0.15 dB

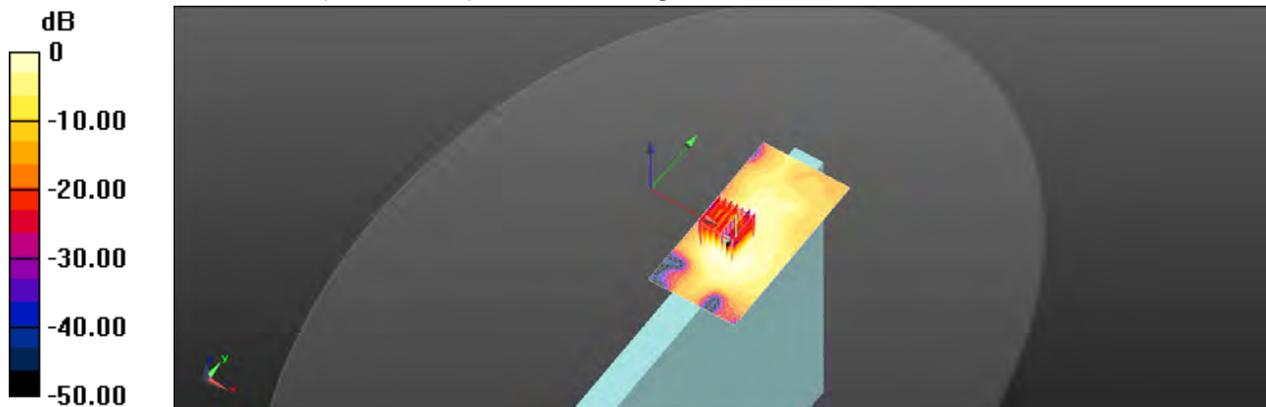
Peak SAR (extrapolated) = 1.94 W/kg

SAR(1 g) = 0.396 W/kg; SAR(10 g) = 0.106 W/kg

Smallest distance from peaks to all points 3 dB below = 4.3 mm

Ratio of SAR at M2 to SAR at M1 = 56%

Maximum value of SAR (measured) = 0.814 W/kg



0 dB = 0.814 W/kg = -0.89 dBW/kg

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Date: 2021/12/27

Report No. :EN/2021/C0024

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

Communication System: WLAN 5G; Frequency: 5690 MHz; Duty cycle= 1:1.085

Medium parameters used: $f = 5690$ MHz; $\sigma = 5.231$ S/m; $\epsilon_r = 35.391$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

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

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

Maximum value of SAR (interpolated) = 0.892 W/kg

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

Reference Value = 2.201 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 2.80 W/kg

SAR(1 g) = 0.444 W/kg; SAR(10 g) = 0.121 W/kg

Smallest distance from peaks to all points 3 dB below = 4.2 mm

Ratio of SAR at M2 to SAR at M1 = 45.8%

Maximum value of SAR (measured) = 1.11 W/kg

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

Reference Value = 2.201 V/m; Power Drift = 0.14 dB

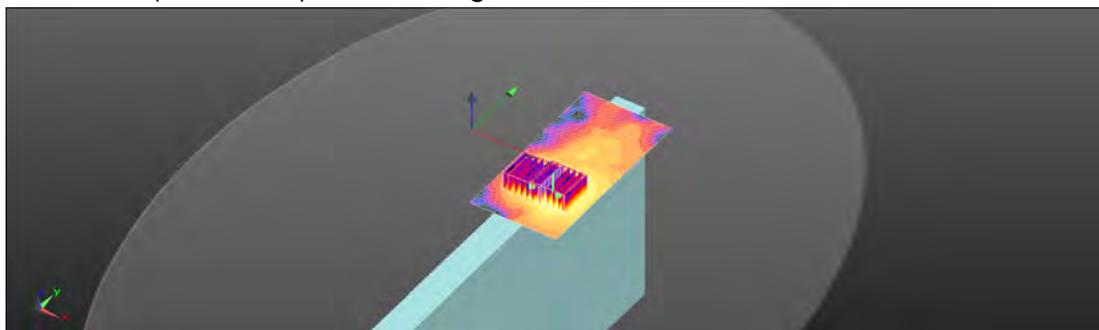
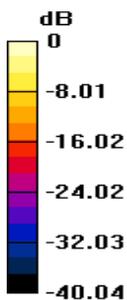
Peak SAR (extrapolated) = 3.16 W/kg

SAR(1 g) = 0.573 W/kg; SAR(10 g) = 0.174 W/kg

Smallest distance from peaks to all points 3 dB below = 4.2 mm

Ratio of SAR at M2 to SAR at M1 = 49.7%

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



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

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Date: 2021/12/28

Report No. :EN/2021/C0024

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

Communication System: WLAN 5G; Frequency: 5775 MHz; Duty cycle= 1:1.085

Medium parameters used: $f = 5775$ MHz; $\sigma = 5.331$ S/m; $\epsilon_r = 35.155$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 21.7°C; Liquid temperature: 22.2°C

DASY5 Configuration:

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

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

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

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

Reference Value = 2.995 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 3.30 W/kg

SAR(1 g) = 0.491 W/kg; SAR(10 g) = 0.139 W/kg

Smallest distance from peaks to all points 3 dB below = 4.4 mm

Ratio of SAR at M2 to SAR at M1 = 45.7%

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

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

Reference Value = 2.995 V/m; Power Drift = 0.11 dB

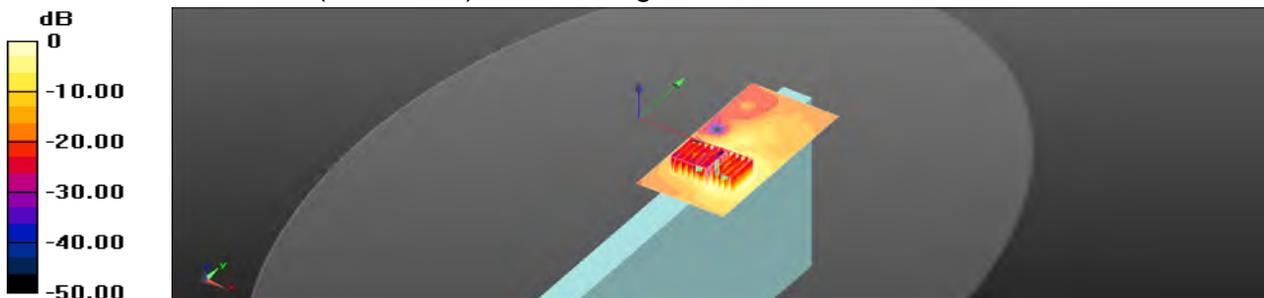
Peak SAR (extrapolated) = 3.26 W/kg

SAR(1 g) = 0.609 W/kg; SAR(10 g) = 0.192 W/kg

Smallest distance from peaks to all points 3 dB below = 4.1 mm

Ratio of SAR at M2 to SAR at M1 = 49.4%

Maximum value of SAR (measured) = 1.35 W/kg



0 dB = 1.35 W/kg = 1.30 dBW/kg

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Date: 2021/12/24

Report No. :EN/2021/C0024

WLAN 802.11b, Body, Top Edge, CH 1, 0mm, Tx2, High-Tek

Communication System: WLAN 2.45G; Frequency: 2412 MHz; Duty cycle= 1:1.054

Medium parameters used: $f = 2412$ MHz; $\sigma = 1.711$ S/m; $\epsilon_r = 39.949$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.67, 7.67, 7.67) @ 2412 MHz; Calibrated: 2021/4/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2021/4/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 0.734 W/kg

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

Reference Value = 2.627 V/m; Power Drift = -0.19 dB

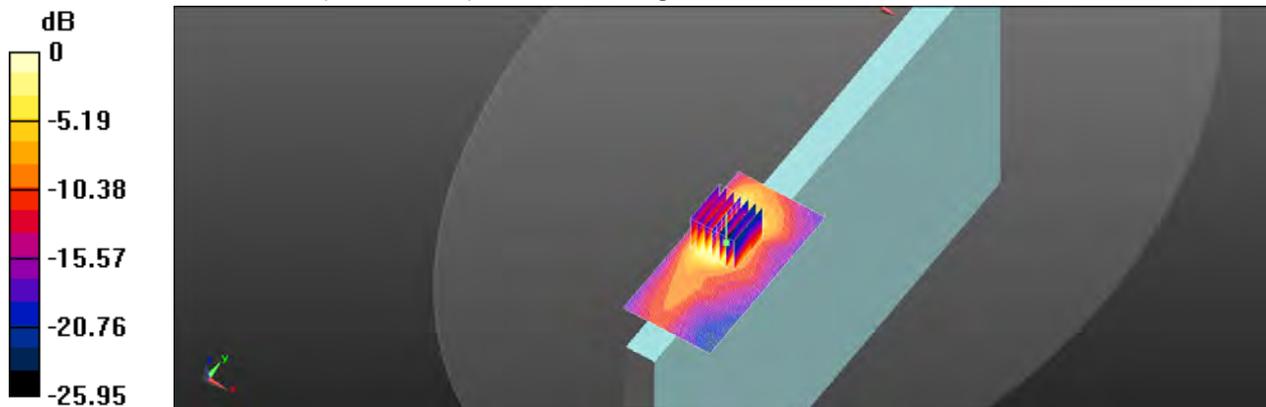
Peak SAR (extrapolated) = 1.14 W/kg

SAR(1 g) = 0.467 W/kg; SAR(10 g) = 0.201 W/kg

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

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

Maximum value of SAR (measured) = 0.681 W/kg



0 dB = 0.681 W/kg = -1.67 dBW/kg

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Date: 2021/12/25

Report No. :EN/2021/C0024

WLAN 802.11n(40M) 5.2G, Body, Top Edge, CH 46, 0mm, Tx2, High-Tek

Communication System: WLAN 5G; Frequency: 5230 MHz; Duty cycle= 1:1.066

Medium parameters used: $f = 5230$ MHz; $\sigma = 4.68$ S/m; $\epsilon_r = 36.195$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

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

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

Maximum value of SAR (interpolated) = 0.573 W/kg

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

Reference Value = 2.922 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 1.68 W/kg

SAR(1 g) = 0.327 W/kg; SAR(10 g) = 0.084 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 54.6%

Maximum value of SAR (measured) = 0.668 W/kg

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

Reference Value = 2.922 V/m; Power Drift = -0.15 dB

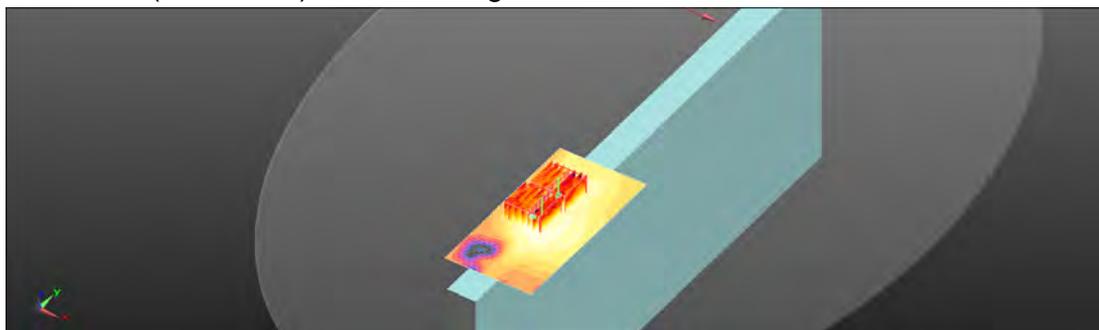
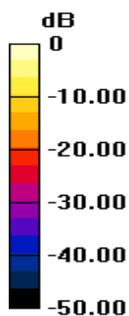
Peak SAR (extrapolated) = 1.27 W/kg

SAR(1 g) = 0.308 W/kg; SAR(10 g) = 0.105 W/kg

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

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

Maximum value of SAR (measured) = 0.654 W/kg



0 dB = 0.654 W/kg = -1.84 dBW/kg

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Date: 2021/12/26

Report No. :EN/2021/C0024

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

Communication System: WLAN 5G; Frequency: 5290 MHz; Duty cycle= 1:1.085

Medium parameters used: $f = 5290 \text{ MHz}$; $\sigma = 4.753 \text{ S/m}$; $\epsilon_r = 36.071$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.6°C; Liquid temperature: 22.0°C

DASY5 Configuration:

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

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

Maximum value of SAR (interpolated) = 0.504 W/kg

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

Reference Value = 2.712 V/m; Power Drift = -0.09 dB

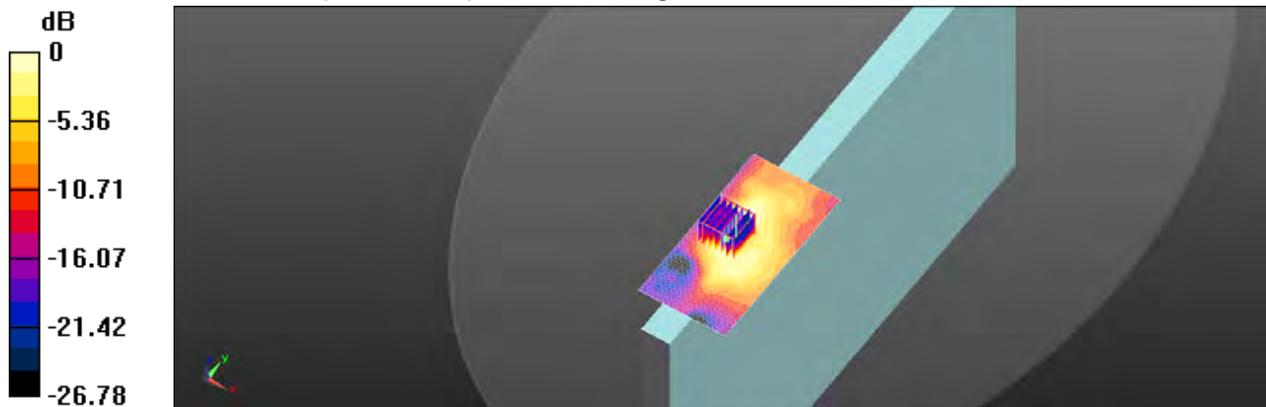
Peak SAR (extrapolated) = 1.24 W/kg

SAR(1 g) = 0.292 W/kg; SAR(10 g) = 0.079 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 64.9%

Maximum value of SAR (measured) = 0.601 W/kg



0 dB = 0.601 W/kg = -2.21 dBW/kg

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Date: 2021/12/27

Report No. :EN/2021/C0024

WLAN 802.11ac(80M) 5.6G, Body, Top Edge, CH 106, 0mm, Tx2, High-Tek

Communication System: WLAN 5G; Frequency: 5530 MHz; Duty cycle= 1:1.085

Medium parameters used: $f = 5530$ MHz; $\sigma = 5.043$ S/m; $\epsilon_r = 35.738$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(4.9, 4.9, 4.9) @ 5530 MHz; Calibrated: 2021/4/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2021/4/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 0.551 W/kg

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

Reference Value = 2.526 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 1.33 W/kg

SAR(1 g) = 0.326 W/kg; SAR(10 g) = 0.109 W/kg

Smallest distance from peaks to all points 3 dB below = 4.1 mm

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

Maximum value of SAR (measured) = 0.666 W/kg

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

Reference Value = 2.526 V/m; Power Drift = -0.11 dB

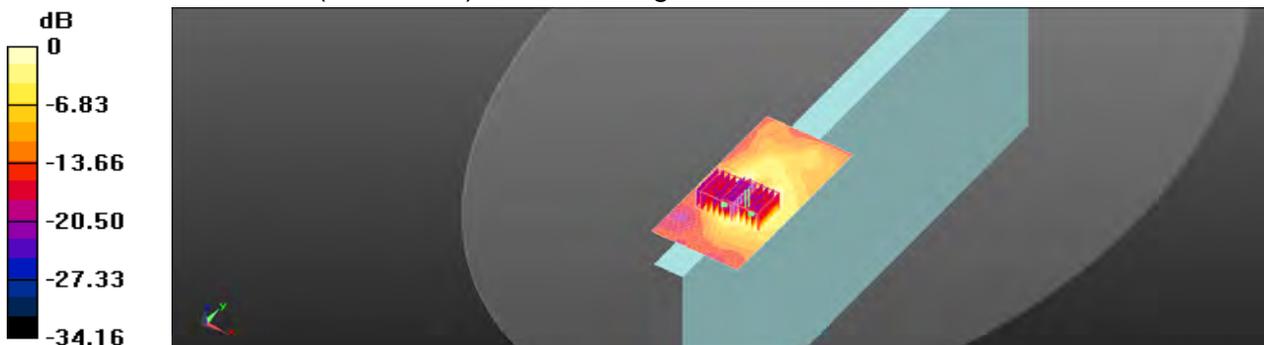
Peak SAR (extrapolated) = 1.58 W/kg

SAR(1 g) = 0.270 W/kg; SAR(10 g) = 0.079 W/kg

Smallest distance from peaks to all points 3 dB below = 4.1 mm

Ratio of SAR at M2 to SAR at M1 = 50.1%

Maximum value of SAR (measured) = 0.636 W/kg



0 dB = 0.636 W/kg = -1.97 dBW/kg

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Date: 2021/12/28

Report No. :EN/2021/C0024

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

Communication System: WLAN 5G; Frequency: 5775 MHz; Duty cycle= 1:1.085

Medium parameters used: $f = 5775$ MHz; $\sigma = 5.331$ S/m; $\epsilon_r = 35.155$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 21.7°C; Liquid temperature: 22.2°C

DASY5 Configuration:

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

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

Maximum value of SAR (interpolated) = 0.779 W/kg

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

Reference Value = 2.022 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 3.00 W/kg

SAR(1 g) = 0.521 W/kg; SAR(10 g) = 0.163 W/kg

Smallest distance from peaks to all points 3 dB below = 4.2 mm

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

Maximum value of SAR (measured) = 1.18 W/kg

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

Reference Value = 2.022 V/m; Power Drift = -0.13 dB

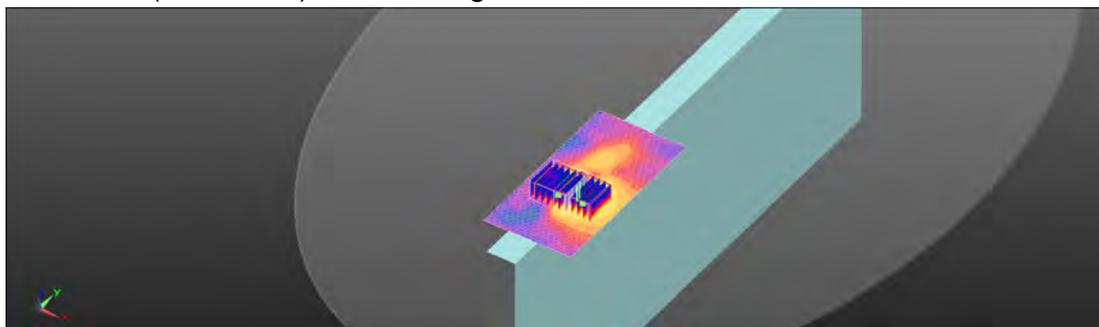
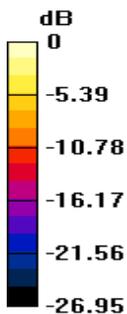
Peak SAR (extrapolated) = 2.73 W/kg

SAR(1 g) = 0.308 W/kg; SAR(10 g) = 0.105 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 48.7%

Maximum value of SAR (measured) = 1.12 W/kg



0 dB = 1.12 W/kg = 0.49 dBW/kg

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Date: 2021/12/24

Report No. :EN/2021/C0024

WLAN 802.11b, Body, Top Edge, CH 1, 0mm, Tx1, WNC

Communication System: WLAN 2.45G; Frequency: 2412 MHz; Duty cycle= 1:1.054

Medium parameters used: $f = 2412$ MHz; $\sigma = 1.711$ S/m; $\epsilon_r = 39.949$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.67, 7.67, 7.67) @ 2412 MHz; Calibrated: 2021/4/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2021/4/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 0.185 W/kg

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

Reference Value = 2.412 V/m; Power Drift = 0.12 dB

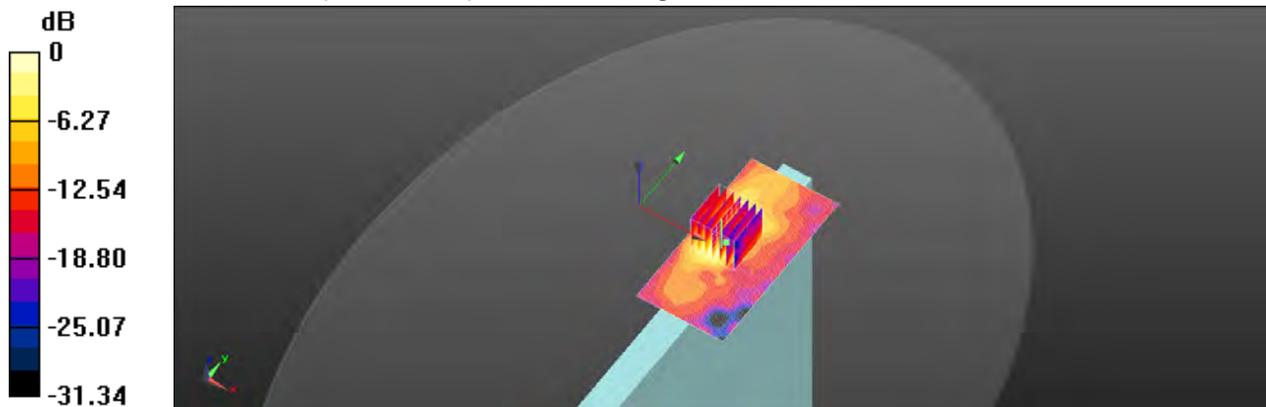
Peak SAR (extrapolated) = 0.283 W/kg

SAR(1 g) = 0.106 W/kg; SAR(10 g) = 0.042 W/kg

Smallest distance from peaks to all points 3 dB below = 6 mm

Ratio of SAR at M2 to SAR at M1 = 41.5%

Maximum value of SAR (measured) = 0.165 W/kg



0 dB = 0.165 W/kg = -7.83 dBW/kg

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Date: 2021/12/24

Report No. :EN/2021/C0024

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

Communication System: Bluetooth; Frequency: 2402 MHz; Duty cycle= 1:1.325

Medium parameters used: $f = 2402$ MHz; $\sigma = 1.702$ S/m; $\epsilon_r = 39.974$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.67, 7.67, 7.67) @ 2402 MHz; Calibrated: 2021/4/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2021/4/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 0.227 W/kg

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

Reference Value = 2.845 V/m; Power Drift = 0.12 dB

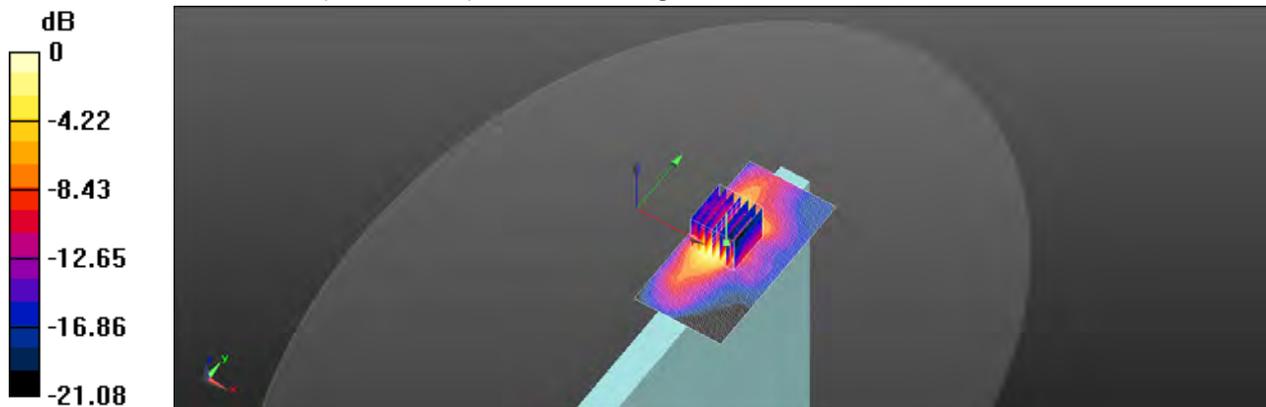
Peak SAR (extrapolated) = 0.359 W/kg

SAR(1 g) = 0.143 W/kg; SAR(10 g) = 0.061 W/kg

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

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

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



0 dB = 0.215 W/kg = -6.68 dBW/kg

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Date: 2021/12/25

Report No. :EN/2021/C0024

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

Communication System: WLAN 5G; Frequency: 5230 MHz; Duty cycle= 1:1.066

Medium parameters used: $f = 5230$ MHz; $\sigma = 4.68$ S/m; $\epsilon_r = 36.195$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

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

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

Maximum value of SAR (interpolated) = 0.357 W/kg

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

Reference Value = 3.142 V/m; Power Drift = 0.15 dB

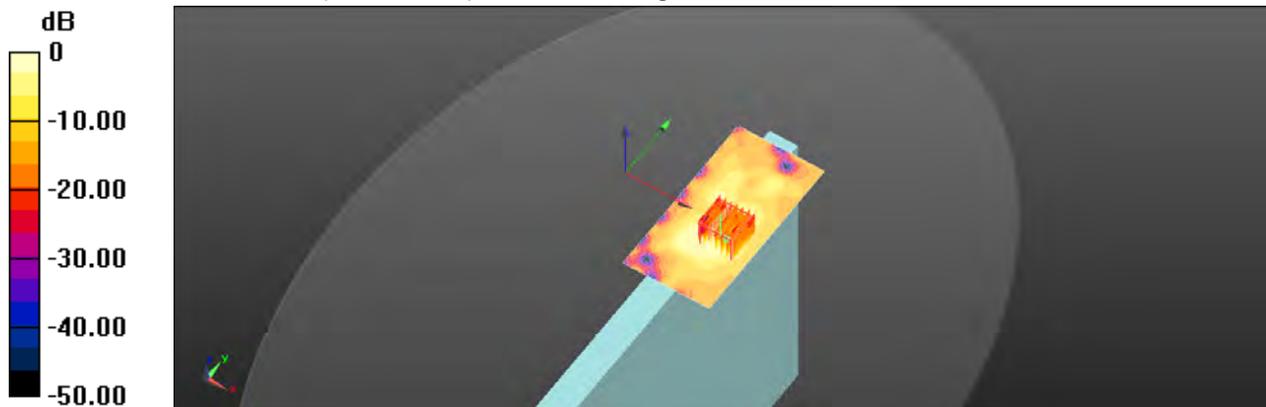
Peak SAR (extrapolated) = 1.05 W/kg

SAR(1 g) = 0.238 W/kg; SAR(10 g) = 0.065 W/kg

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

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

Maximum value of SAR (measured) = 0.548 W/kg



0 dB = 0.548 W/kg = -2.61 dBW/kg

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Date: 2021/12/26

Report No. :EN/2021/C0024

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

Communication System: WLAN 5G; Frequency: 5290 MHz; Duty cycle= 1:1.085

Medium parameters used: $f = 5290$ MHz; $\sigma = 4.753$ S/m; $\epsilon_r = 36.071$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 21.6°C; Liquid temperature: 22.0°C

DASY5 Configuration:

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

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

Maximum value of SAR (interpolated) = 0.417 W/kg

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

Reference Value = 2.221 V/m; Power Drift = 0.11 dB

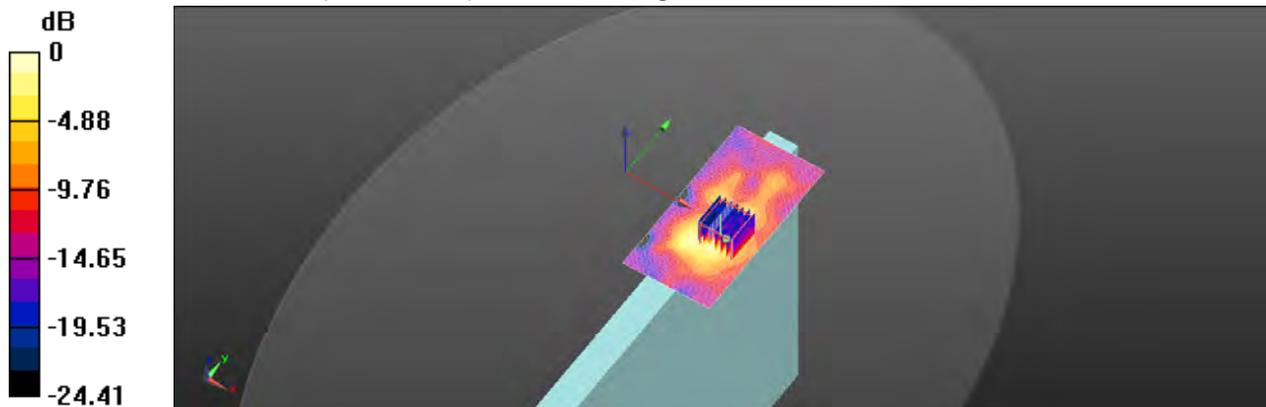
Peak SAR (extrapolated) = 1.20 W/kg

SAR(1 g) = 0.276 W/kg; SAR(10 g) = 0.081 W/kg

Smallest distance from peaks to all points 3 dB below = 4.5 mm

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

Maximum value of SAR (measured) = 0.594 W/kg



0 dB = 0.594 W/kg = -2.26 dBW/kg

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Date: 2021/12/27

Report No. :EN/2021/C0024

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

Communication System: WLAN 5G; Frequency: 5690 MHz; Duty cycle= 1:1.085

Medium parameters used: $f = 5690$ MHz; $\sigma = 5.231$ S/m; $\epsilon_r = 35.391$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

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

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

Maximum value of SAR (interpolated) = 0.597 W/kg

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

Reference Value = 2.013 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 1.67 W/kg

SAR(1 g) = 0.259 W/kg; SAR(10 g) = 0.093 W/kg

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

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

Maximum value of SAR (measured) = 0.689 W/kg

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

Reference Value = 2.013 V/m; Power Drift = 0.19 dB

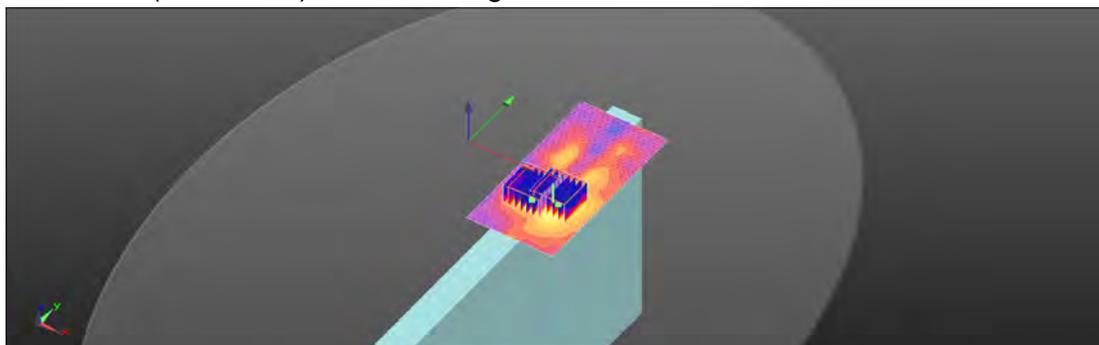
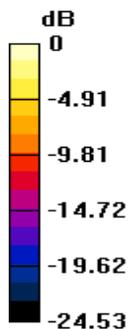
Peak SAR (extrapolated) = 1.49 W/kg

SAR(1 g) = 0.339 W/kg; SAR(10 g) = 0.115 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 52.8%

Maximum value of SAR (measured) = 0.694 W/kg



0 dB = 0.694 W/kg = -1.59 dBW/kg

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Date: 2021/12/28

Report No. :EN/2021/C0024

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

Communication System: WLAN 5G; Frequency: 5775 MHz; Duty cycle= 1:1.085

Medium parameters used: $f = 5775 \text{ MHz}$; $\sigma = 5.331 \text{ S/m}$; $\epsilon_r = 35.155$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.7°C; Liquid temperature: 22.2°C

DASY5 Configuration:

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

Area Scan (61x121x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 0.744 W/kg

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

Reference Value = 2.392 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 2.09 W/kg

SAR(1 g) = 0.327 W/kg; SAR(10 g) = 0.117 W/kg

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

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

Maximum value of SAR (measured) = 0.870 W/kg

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

Reference Value = 2.392 V/m; Power Drift = -0.16 dB

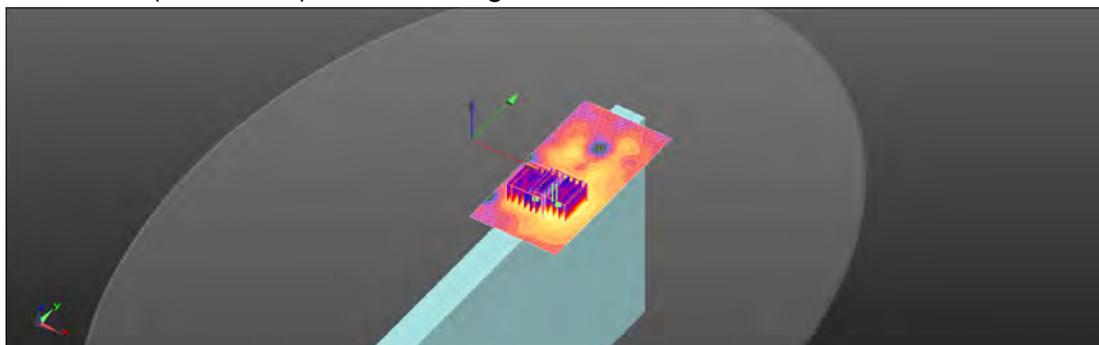
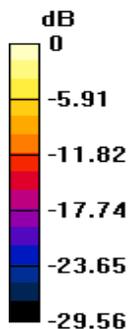
Peak SAR (extrapolated) = 2.10 W/kg

SAR(1 g) = 0.424 W/kg; SAR(10 g) = 0.144 W/kg

Smallest distance from peaks to all points 3 dB below = 4.2 mm

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

Maximum value of SAR (measured) = 0.886 W/kg



0 dB = 0.886 W/kg = -0.53 dBW/kg

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Date: 2021/12/24

Report No. :EN/2021/C0024

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

Communication System: WLAN 2.45G; Frequency: 2462 MHz; Duty cycle= 1:1.054

Medium parameters used: $f = 2462$ MHz; $\sigma = 1.749$ S/m; $\epsilon_r = 39.886$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.1°C

DASY5 Configuration:

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

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

Maximum value of SAR (interpolated) = 0.580 W/kg

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

Reference Value = 2.551 V/m; Power Drift = 0.08 dB

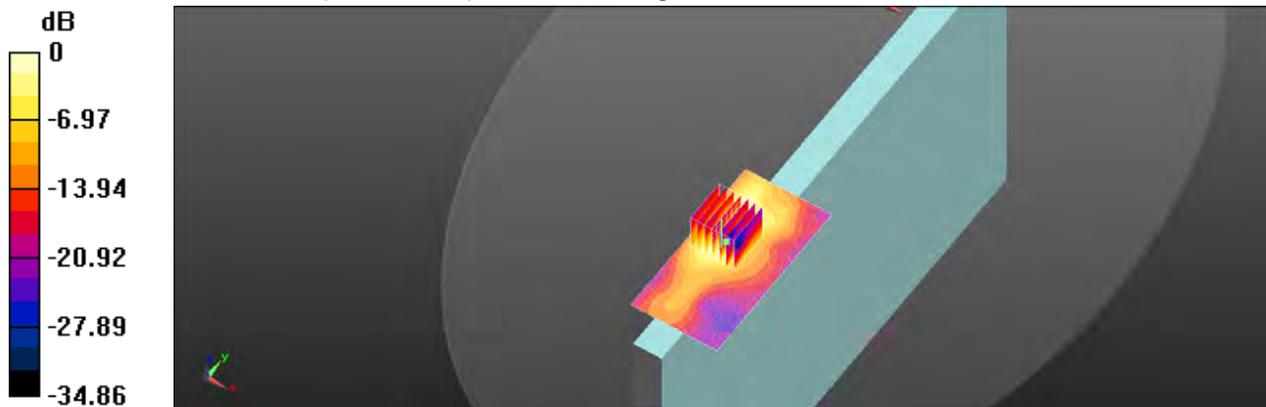
Peak SAR (extrapolated) = 0.959 W/kg

SAR(1 g) = 0.357 W/kg; SAR(10 g) = 0.146 W/kg

Smallest distance from peaks to all points 3 dB below = 6 mm

Ratio of SAR at M2 to SAR at M1 = 37.6%

Maximum value of SAR (measured) = 0.543 W/kg



0 dB = 0.543 W/kg = -2.65 dBW/kg

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Date: 2021/12/25

Report No. :EN/2021/C0024

WLAN 802.11n(40M) 5.2G, Body, Top Edge, CH 46, 0mm, Tx2, WNC

Communication System: WLAN 5G; Frequency: 5230 MHz; Duty cycle= 1:1.066

Medium parameters used: $f = 5230$ MHz; $\sigma = 4.68$ S/m; $\epsilon_r = 36.195$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

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

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

Maximum value of SAR (interpolated) = 1.07 W/kg

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

Reference Value = 2.168 V/m; Power Drift = 0.12 dB

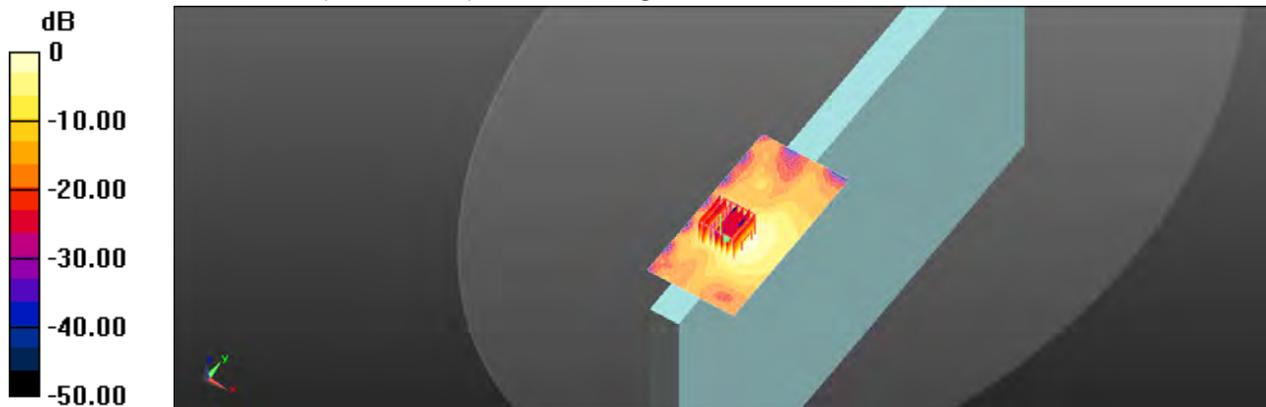
Peak SAR (extrapolated) = 2.37 W/kg

SAR(1 g) = 0.480 W/kg; SAR(10 g) = 0.161 W/kg

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

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

Maximum value of SAR (measured) = 1.11 W/kg



0 dB = 1.11 W/kg = 0.45 dBW/kg

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Date: 2021/12/26

Report No. :EN/2021/C0024

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

Communication System: WLAN 5G; Frequency: 5290 MHz; Duty cycle= 1:1.085

Medium parameters used: $f = 5290$ MHz; $\sigma = 4.753$ S/m; $\epsilon_r = 36.071$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 21.6°C; Liquid temperature: 22.0°C

DASY5 Configuration:

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

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

Maximum value of SAR (interpolated) = 0.796 W/kg

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

Reference Value = 3.112 V/m; Power Drift = 0.12 dB

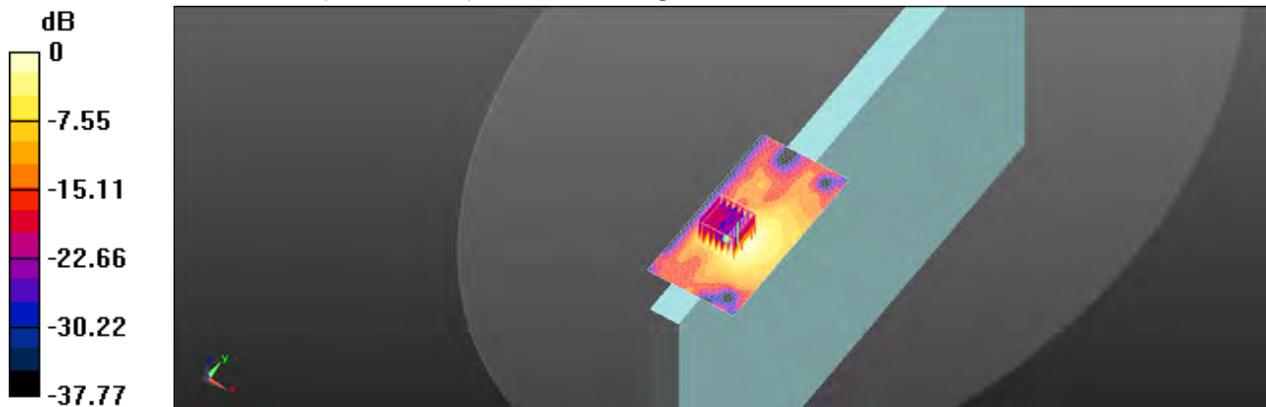
Peak SAR (extrapolated) = 1.69 W/kg

SAR(1 g) = 0.367 W/kg; SAR(10 g) = 0.123 W/kg

Smallest distance from peaks to all points 3 dB below = 4.5 mm

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

Maximum value of SAR (measured) = 0.853 W/kg



0 dB = 0.853 W/kg = -0.69 dBW/kg

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Date: 2021/12/27

Report No. :EN/2021/C0024

WLAN 802.11ac(80M) 5.6G, Body, Top Edge, CH 106, 0mm, Tx2, WNC

Communication System: WLAN 5G; Frequency: 5530 MHz; Duty cycle= 1:1.085

Medium parameters used: $f = 5530$ MHz; $\sigma = 5.043$ S/m; $\epsilon_r = 35.738$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(4.9, 4.9, 4.9) @ 5530 MHz; Calibrated: 2021/4/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2021/4/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 0.902 W/kg

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

Reference Value = 2.512 V/m; Power Drift = -0.12 dB

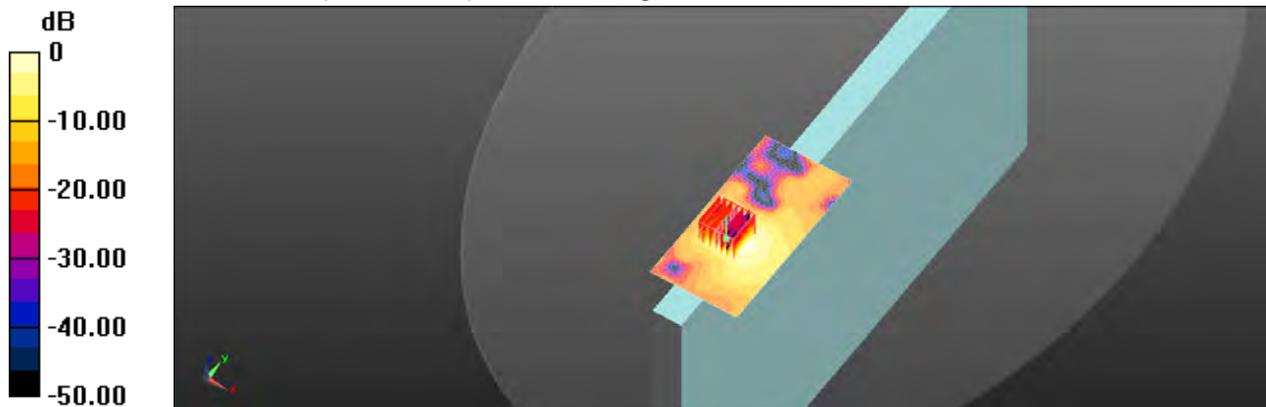
Peak SAR (extrapolated) = 2.62 W/kg

SAR(1 g) = 0.430 W/kg; SAR(10 g) = 0.128 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 51.4%

Maximum value of SAR (measured) = 1.08 W/kg



0 dB = 1.08 W/kg = 0.33 dBW/kg

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Date: 2021/12/28

Report No. :EN/2021/C0024

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

Communication System: WLAN 5G; Frequency: 5775 MHz; Duty cycle= 1:1.085

Medium parameters used: $f = 5775 \text{ MHz}$; $\sigma = 5.331 \text{ S/m}$; $\epsilon_r = 35.155$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.7°C ; Liquid temperature: 22.2°C

DASY5 Configuration:

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

Area Scan (61x121x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 0.963 W/kg

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

Reference Value = 2.157 V/m ; Power Drift = -0.15 dB

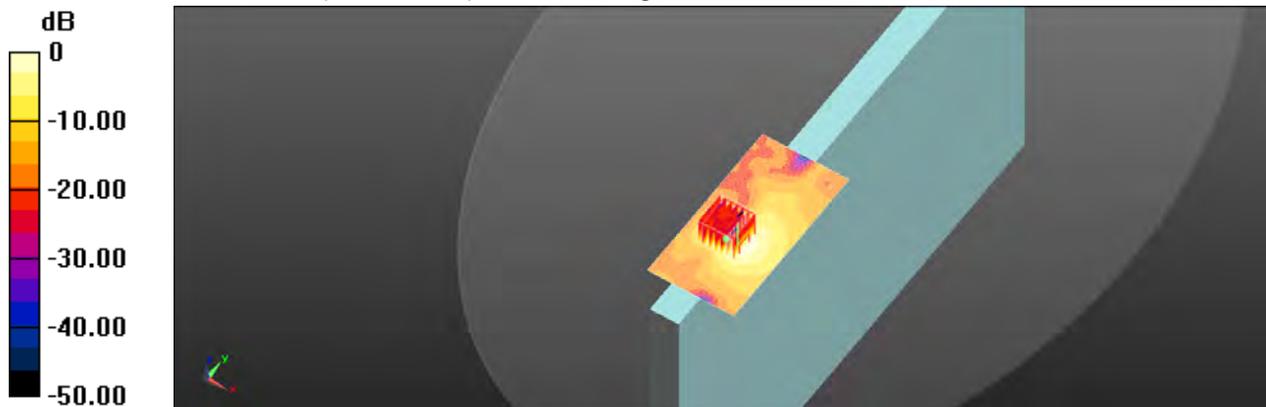
Peak SAR (extrapolated) = 2.74 W/kg

SAR(1 g) = 0.487 W/kg ; SAR(10 g) = 0.148 W/kg

Smallest distance from peaks to all points 3 dB below = 4.4 mm

Ratio of SAR at M2 to SAR at M1 = 50.2%

Maximum value of SAR (measured) = 1.21 W/kg



0 dB = 1.21 W/kg = 0.83 dBW/kg

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Date: 2022/1/8

Report No. :EN/2021/C0024

WLAN 802.11b, Book mode, Right Edge, CH 1, 0mm, Tx1, High-Tek

Communication System: WLAN 2.45G; Frequency: 2412 MHz; Duty cycle= 1:1.054

Medium parameters used: $f = 2412 \text{ MHz}$; $\sigma = 1.78 \text{ S/m}$; $\epsilon_r = 39.716$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.67, 7.67, 7.67) @ 2412 MHz; Calibrated: 2021/4/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2021/4/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 0.0767 W/kg

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

Reference Value = 3.245 V/m; Power Drift = -0.15 dB

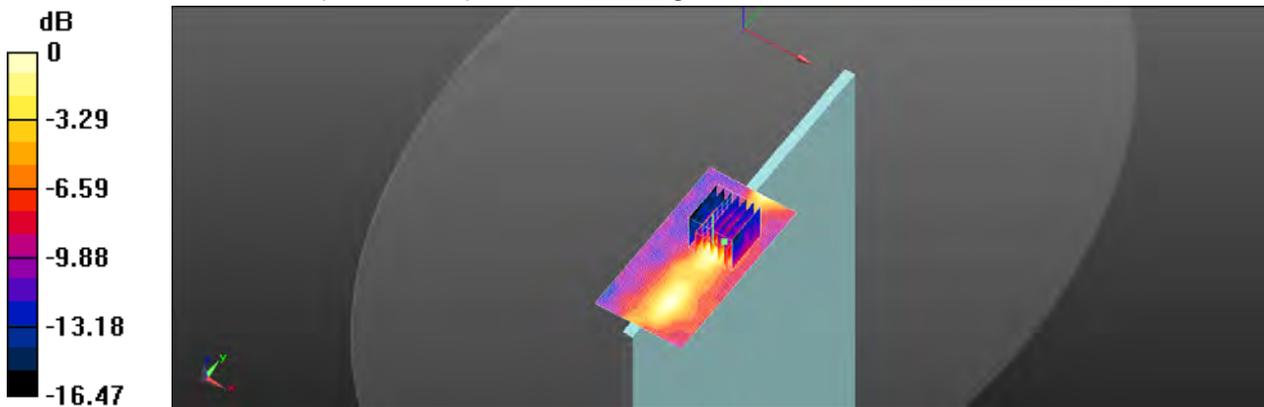
Peak SAR (extrapolated) = 0.111 W/kg

SAR(1 g) = 0.052 W/kg; SAR(10 g) = 0.024 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 46.7%

Maximum value of SAR (measured) = 0.0728 W/kg



0 dB = 0.0728 W/kg = -11.38 dBW/kg

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Date: 2022/1/8

Report No. :EN/2021/C0024

Bluetooth(GFSK), Book mode, Right Edge, CH 0, 0mm, Tx1, High-Tek

Communication System: Bluetooth; Frequency: 2402 MHz; Duty cycle= 1:1.325

Medium parameters used: $f = 2402$ MHz; $\sigma = 1.771$ S/m; $\epsilon_r = 39.754$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.67, 7.67, 7.67) @ 2402 MHz; Calibrated: 2021/4/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2021/4/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 0.0479 W/kg

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

Reference Value = 2.512 V/m; Power Drift = -0.12 dB

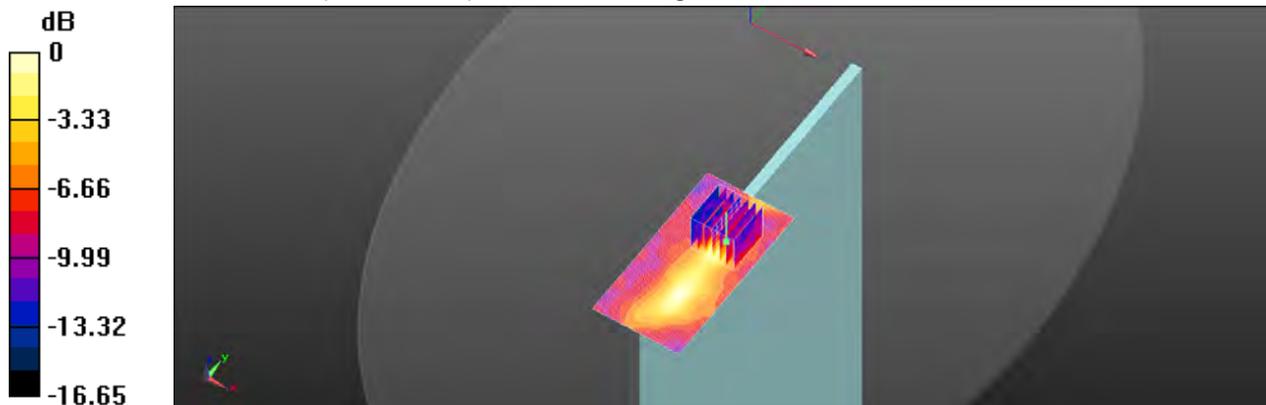
Peak SAR (extrapolated) = 0.0610 W/kg

SAR(1 g) = 0.029 W/kg; SAR(10 g) = 0.014 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

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

Maximum value of SAR (measured) = 0.0412 W/kg



0 dB = 0.0412 W/kg = -13.85 dBW/kg

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Date: 2021/12/25

Report No. :EN/2021/C0024

WLAN 802.11n(40M) 5.2G, Book mode, Right Edge, CH 46, 0mm, Tx1, High-Tek

Communication System: WLAN 5G; Frequency: 5230 MHz; Duty cycle= 1:1.066

Medium parameters used: $f = 5230 \text{ MHz}$; $\sigma = 4.68 \text{ S/m}$; $\epsilon_r = 36.195$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

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

Area Scan (61x121x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 0.0332 W/kg

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

Reference Value = 2.356 V/m ; Power Drift = -0.11 dB

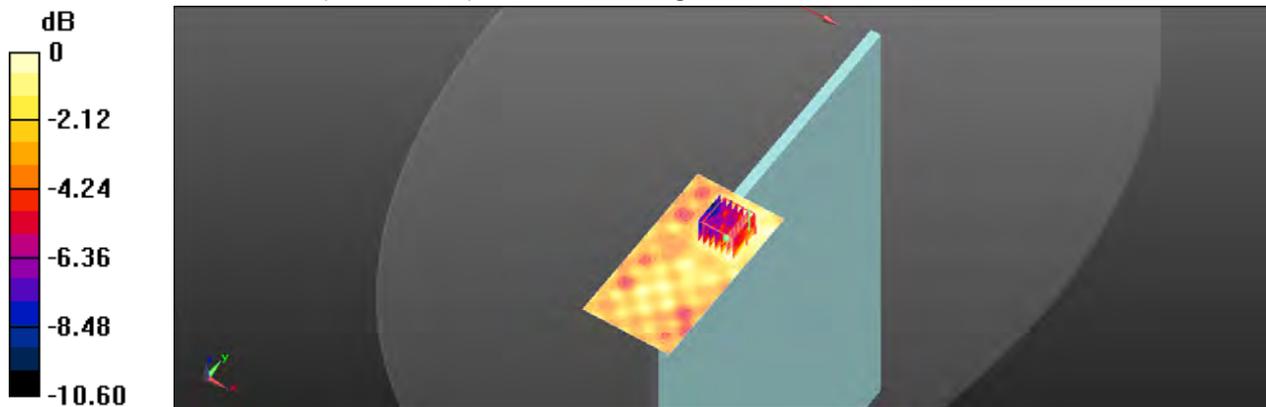
Peak SAR (extrapolated) = 0.101 W/kg

SAR(1 g) = 0.020 W/kg ; SAR(10 g) = 0.014 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 54.7%

Maximum value of SAR (measured) = 0.0333 W/kg



0 dB = 0.0333 W/kg = -14.78 dBW/kg

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Date: 2021/12/26

Report No. :EN/2021/C0024

WLAN 802.11ac(80M) 5.3G, Book mode, Right Edge, CH 58, 0mm, Tx1, High-Tek

Communication System: WLAN 5G; Frequency: 5290 MHz; Duty cycle= 1:1.085

Medium parameters used: $f = 5290$ MHz; $\sigma = 4.753$ S/m; $\epsilon_r = 36.071$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 21.6°C; Liquid temperature: 22.0°C

DASY5 Configuration:

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

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

Maximum value of SAR (interpolated) = 0.249 W/kg

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

Reference Value = 3.854 V/m; Power Drift = -0.18 dB

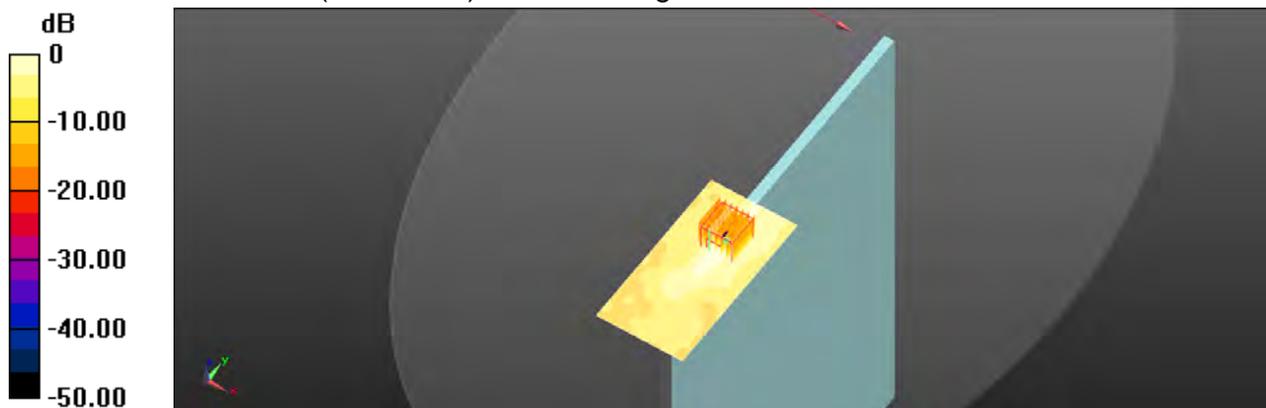
Peak SAR (extrapolated) = 0.534 W/kg

SAR(1 g) = 0.117 W/kg; SAR(10 g) = 0.043 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 45.8%

Maximum value of SAR (measured) = 0.213 W/kg



0 dB = 0.213 W/kg = -6.72 dBW/kg

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Date: 2021/12/27

Report No. :EN/2021/C0024

WLAN 802.11ac(80M) 5.6G, Book mode, Right Edge, CH 138, 0mm, Tx1, High-Tek

Communication System: WLAN 5G; Frequency: 5690 MHz; Duty cycle= 1:1.085

Medium parameters used: $f = 5690$ MHz; $\sigma = 5.231$ S/m; $\epsilon_r = 35.391$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

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

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

Maximum value of SAR (interpolated) = 0.110 W/kg

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

Reference Value = 3.148 V/m; Power Drift = -0.12 dB

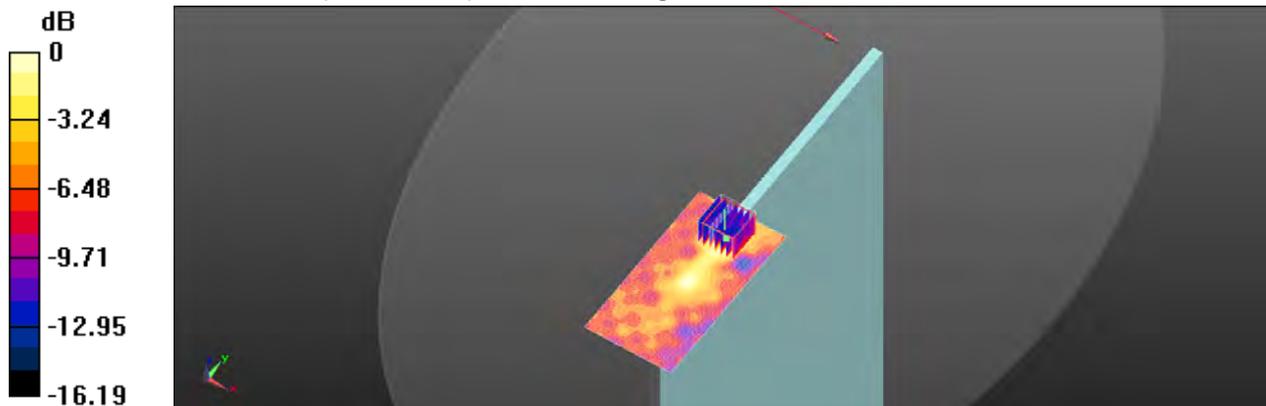
Peak SAR (extrapolated) = 0.302 W/kg

SAR(1 g) = 0.050 W/kg; SAR(10 g) = 0.020 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 50.5%

Maximum value of SAR (measured) = 0.104 W/kg



0 dB = 0.104 W/kg = -9.83 dBW/kg

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Date: 2021/12/28

Report No. :EN/2021/C0024

WLAN 802.11ac(80M) 5.8G, Book mode, Right Edge, CH 155, 0mm, Tx1, High-Tek

Communication System: WLAN 5G; Frequency: 5775 MHz; Duty cycle= 1:1.085

Medium parameters used: $f = 5775$ MHz; $\sigma = 5.331$ S/m; $\epsilon_r = 35.155$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 21.7°C; Liquid temperature: 22.2°C

DASY5 Configuration:

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

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

Maximum value of SAR (interpolated) = 0.156 W/kg

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

Reference Value = 3.465 V/m; Power Drift = -0.15 dB

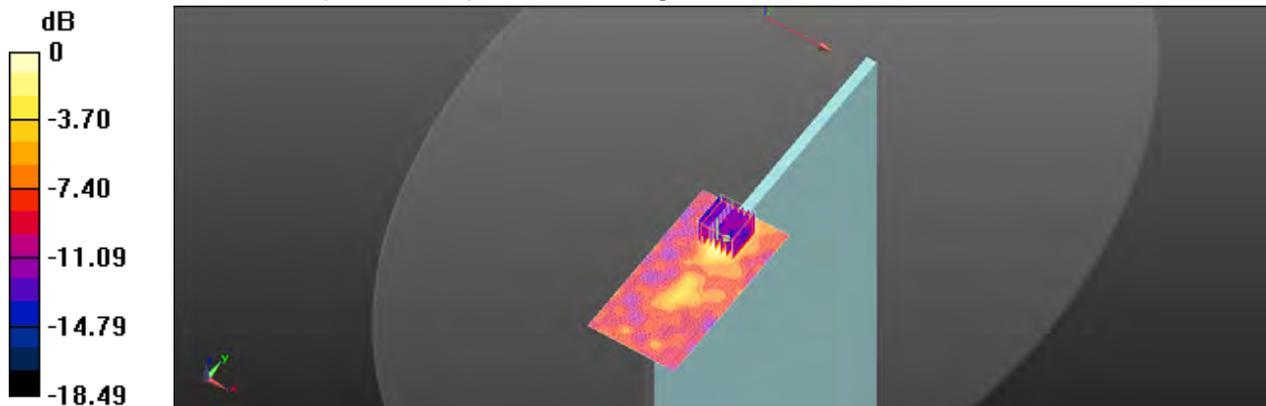
Peak SAR (extrapolated) = 0.388 W/kg

SAR(1 g) = 0.079 W/kg; SAR(10 g) = 0.030 W/kg

Smallest distance from peaks to all points 3 dB below = 4.3 mm

Ratio of SAR at M2 to SAR at M1 = 48.2%

Maximum value of SAR (measured) = 0.158 W/kg



0 dB = 0.158 W/kg = -8.01 dBW/kg

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Date: 2022/1/8

Report No. :EN/2021/C0024

WLAN 802.11b, Book mode, Left Edge, CH 11, 0mm, Tx2, High-Tek

Communication System: WLAN 2.45G; Frequency: 2462 MHz; Duty cycle= 1:1.054

Medium parameters used: $f = 2462 \text{ MHz}$; $\sigma = 1.827 \text{ S/m}$; $\epsilon_r = 39.612$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.8°C

DASY5 Configuration:

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

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

Maximum value of SAR (interpolated) = 0.0363 W/kg

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

Reference Value = 4.027 V/m; Power Drift = 0.09 dB

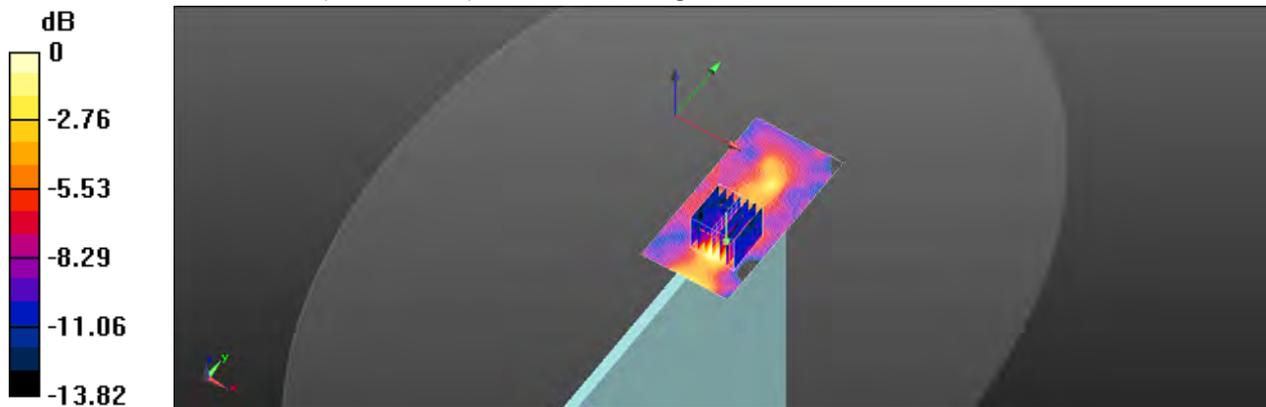
Peak SAR (extrapolated) = 0.0510 W/kg

SAR(1 g) = 0.023 W/kg; SAR(10 g) = 0.010 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 58%

Maximum value of SAR (measured) = 0.0321 W/kg



0 dB = 0.0321 W/kg = -14.93 dBW/kg

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Date: 2021/12/25

Report No. :EN/2021/C0024

WLAN 802.11n(40M) 5.2G, Book mode, Left Edge, CH 46, 0mm, Tx2, High-Tek

Communication System: WLAN 5G; Frequency: 5230 MHz; Duty cycle= 1:1.066

Medium parameters used: $f = 5230 \text{ MHz}$; $\sigma = 4.68 \text{ S/m}$; $\epsilon_r = 36.195$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

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

Area Scan (61x121x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 0.0910 W/kg

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

Reference Value = 3.202 V/m ; Power Drift = -0.16 dB

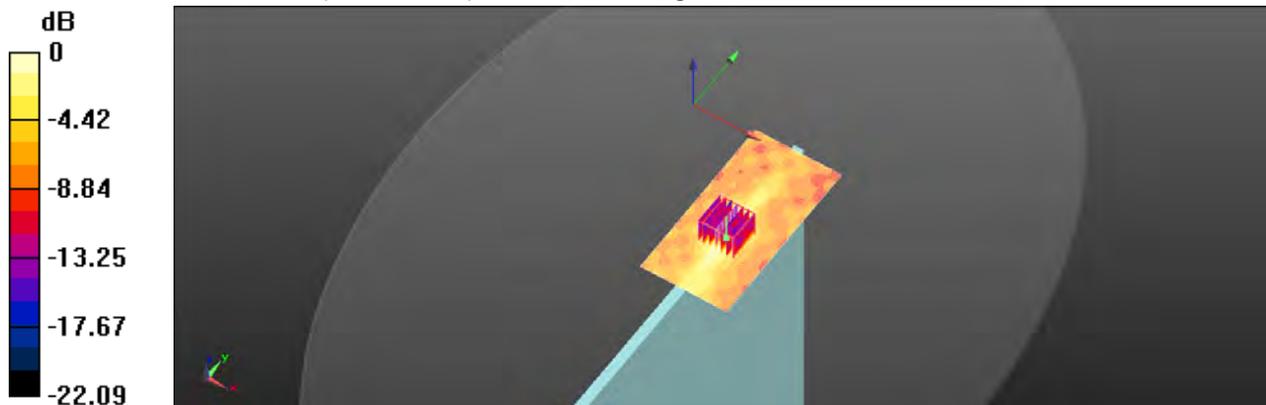
Peak SAR (extrapolated) = 0.164 W/kg

SAR(1 g) = 0.044 W/kg ; SAR(10 g) = 0.018 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 51.6%

Maximum value of SAR (measured) = 0.0938 W/kg



0 dB = 0.0938 W/kg = -10.28 dBW/kg

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Date: 2021/12/26

Report No. :EN/2021/C0024

WLAN 802.11ac(80M) 5.3G, Book mode, Left Edge, CH 58, 0mm, Tx2, High-Tek

Communication System: WLAN 5G; Frequency: 5290 MHz; Duty cycle= 1:1.085

Medium parameters used: $f = 5290$ MHz; $\sigma = 4.753$ S/m; $\epsilon_r = 36.071$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 21.6°C; Liquid temperature: 22.0°C

DASY5 Configuration:

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

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

Maximum value of SAR (interpolated) = 0.0591 W/kg

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

Reference Value = 3.052 V/m; Power Drift = -0.15 dB

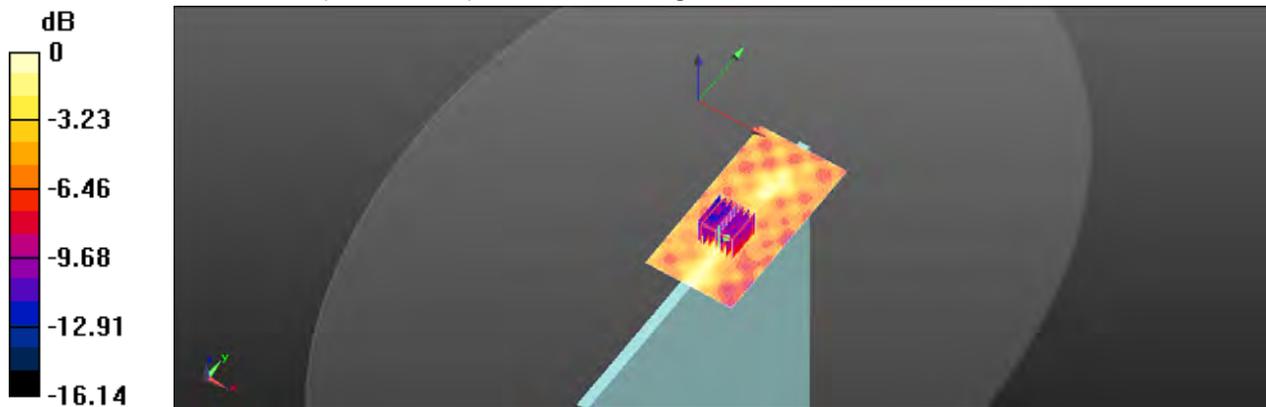
Peak SAR (extrapolated) = 0.239 W/kg

SAR(1 g) = 0.031 W/kg; SAR(10 g) = 0.014 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 48.6%

Maximum value of SAR (measured) = 0.0607 W/kg



0 dB = 0.0607 W/kg = -12.17 dBW/kg

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Date: 2021/12/27

Report No. :EN/2021/C0024

WLAN 802.11ac(80M) 5.6G, Book mode, Left Edge, CH 106, 0mm, Tx2, High-Tek

Communication System: WLAN 5G; Frequency: 5530 MHz; Duty cycle= 1:1.085

Medium parameters used: $f = 5530$ MHz; $\sigma = 5.043$ S/m; $\epsilon_r = 35.738$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(4.9, 4.9, 4.9) @ 5530 MHz; Calibrated: 2021/4/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2021/4/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 0.0649 W/kg

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

Reference Value = 3.136 V/m; Power Drift = 0.02 dB

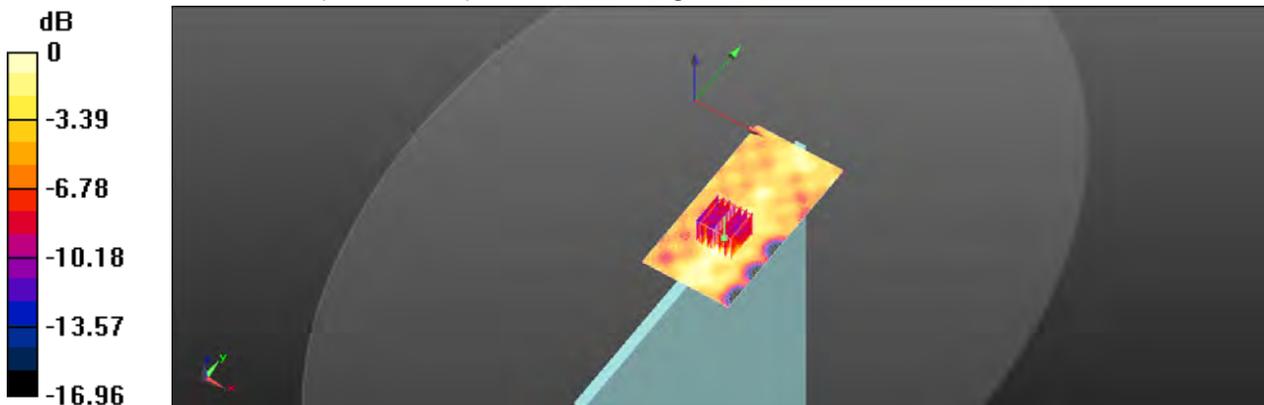
Peak SAR (extrapolated) = 0.196 W/kg

SAR(1 g) = 0.033 W/kg; SAR(10 g) = 0.017 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

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

Maximum value of SAR (measured) = 0.0636 W/kg



0 dB = 0.0636 W/kg = -11.97 dBW/kg

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Date: 2021/12/28

Report No. :EN/2021/C0024

WLAN 802.11ac(80M) 5.8G, Book mode, Left Edge, CH 155, 0mm, Tx2, High-Tek

Communication System: WLAN 5G; Frequency: 5775 MHz; Duty cycle= 1:1.085

Medium parameters used: $f = 5775 \text{ MHz}$; $\sigma = 5.331 \text{ S/m}$; $\epsilon_r = 35.155$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.7°C; Liquid temperature: 22.2°C

DASY5 Configuration:

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

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

Maximum value of SAR (interpolated) = 0.0824 W/kg

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

Reference Value = 3.906 V/m; Power Drift = -0.18 dB

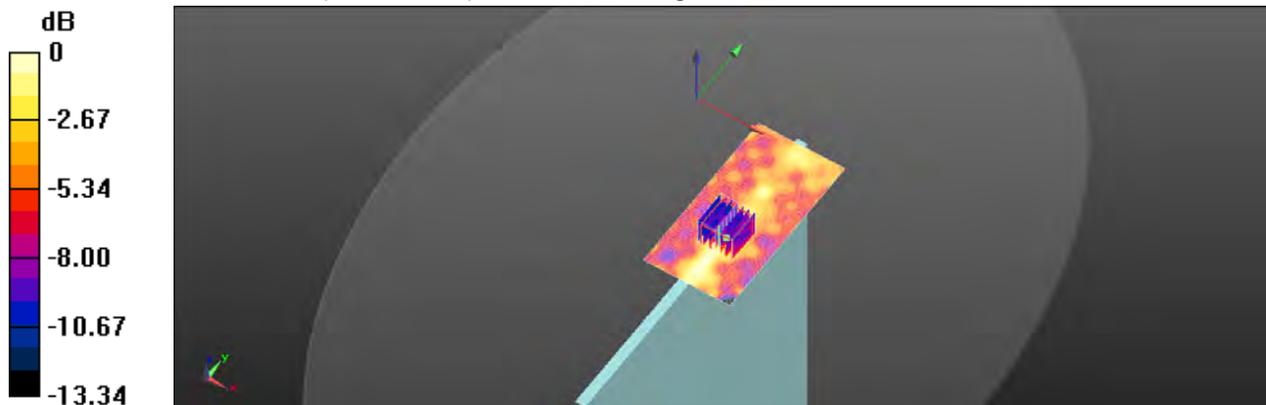
Peak SAR (extrapolated) = 0.213 W/kg

SAR(1 g) = 0.042 W/kg; SAR(10 g) = 0.021 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 51.8%

Maximum value of SAR (measured) = 0.0851 W/kg



0 dB = 0.0851 W/kg = -10.70 dBW/kg

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Date: 2022/1/8

Report No. :EN/2021/C0024

WLAN 802.11b, Book mode, Right Edge, CH 1, 0mm, Tx1, WNC

Communication System: WLAN 2.45G; Frequency: 2412 MHz; Duty cycle= 1:1.054

Medium parameters used: $f = 2412$ MHz; $\sigma = 1.78$ S/m; $\epsilon_r = 39.716$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.67, 7.67, 7.67) @ 2412 MHz; Calibrated: 2021/4/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2021/4/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 0.0386 W/kg

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

Reference Value = 2.463 V/m; Power Drift = -0.07 dB

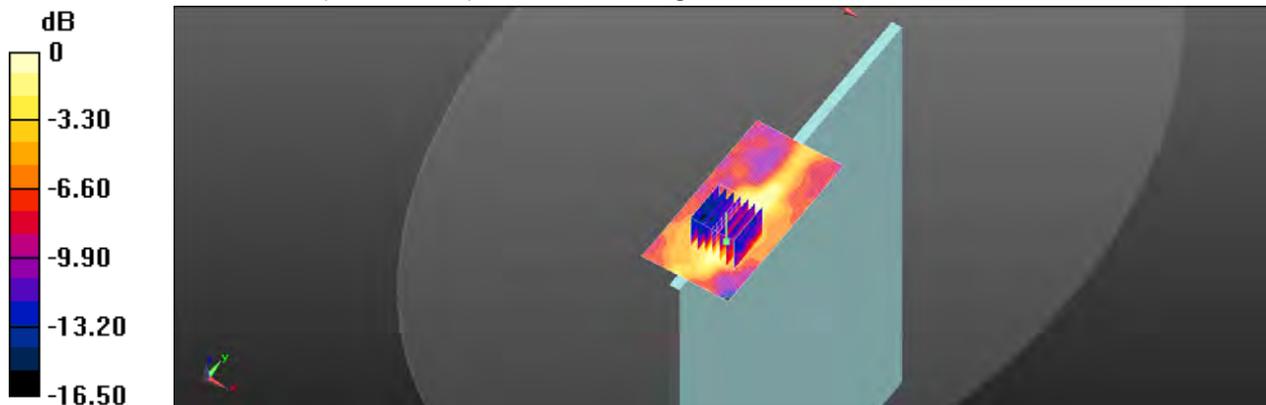
Peak SAR (extrapolated) = 0.0600 W/kg

SAR(1 g) = 0.026 W/kg; SAR(10 g) = 0.013 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

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

Maximum value of SAR (measured) = 0.0377 W/kg



0 dB = 0.0377 W/kg = -14.24 dBW/kg

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Date: 2022/1/8

Report No. :EN/2021/C0024

Bluetooth(GFSK), Book mode, Right Edge, CH 0, 0mm, Tx1, WNC

Communication System: Bluetooth; Frequency: 2402 MHz; Duty cycle= 1:1.325

Medium parameters used: $f = 2402$ MHz; $\sigma = 1.771$ S/m; $\epsilon_r = 39.754$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.67, 7.67, 7.67) @ 2402 MHz; Calibrated: 2021/4/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2021/4/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 0.00831 W/kg

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

Reference Value = 2.069 V/m; Power Drift = -0.16 dB

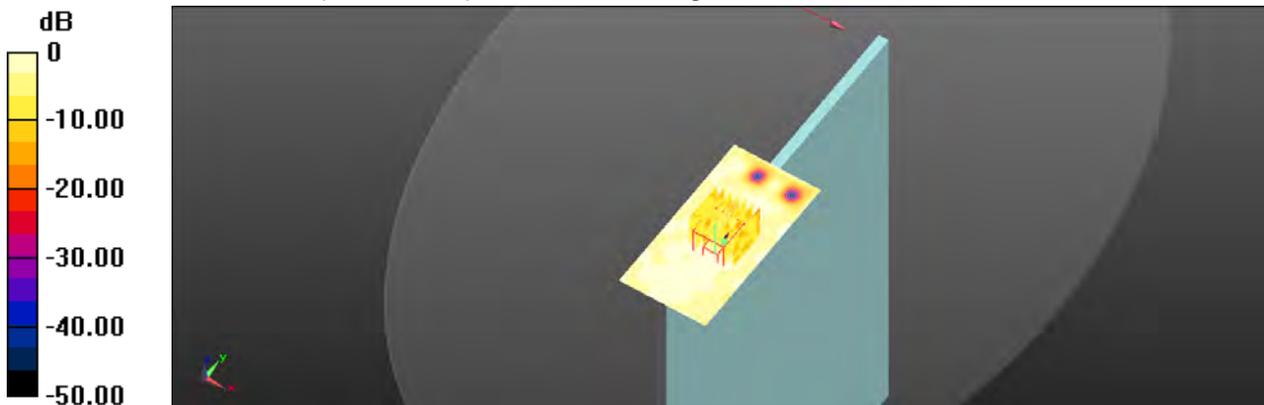
Peak SAR (extrapolated) = 0.0110 W/kg

SAR(1 g) = 0.00465 W/kg; SAR(10 g) = 0.00232 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 37%

Maximum value of SAR (measured) = 0.00772 W/kg



0 dB = 0.00772 W/kg = -21.12 dBW/kg

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Date: 2021/12/25

Report No. :EN/2021/C0024

WLAN 802.11n(40M) 5.2G, Book mode, Right Edge, CH 46, 0mm, Tx1, WNC

Communication System: WLAN 5G; Frequency: 5230 MHz; Duty cycle= 1:1.066

Medium parameters used: $f = 5230$ MHz; $\sigma = 4.68$ S/m; $\epsilon_r = 36.195$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

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

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

Maximum value of SAR (interpolated) = 0.159 W/kg

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

Reference Value = 3.175 V/m; Power Drift = 0.08 dB

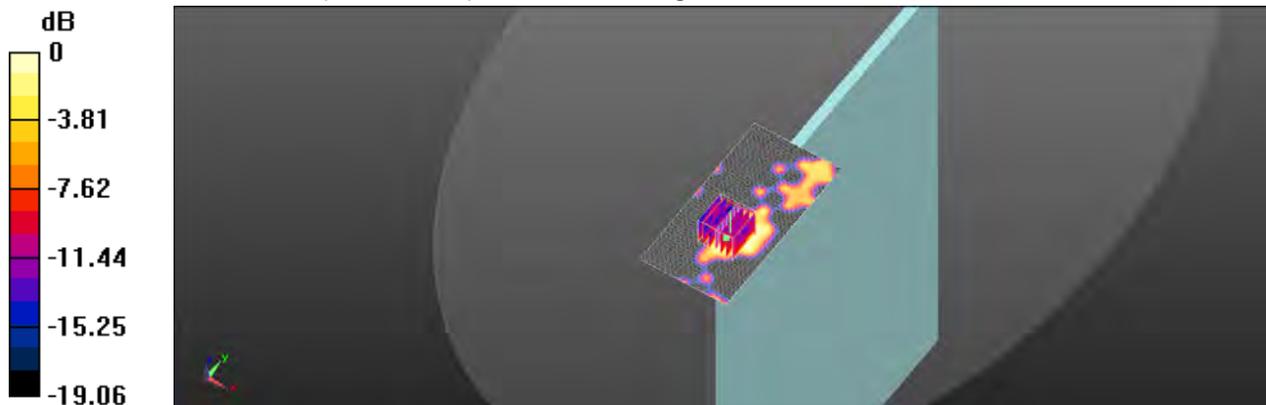
Peak SAR (extrapolated) = 0.342 W/kg

SAR(1 g) = 0.049 W/kg; SAR(10 g) = 0.019 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

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

Maximum value of SAR (measured) = 0.0871 W/kg



0 dB = 0.0871 W/kg = -10.60 dBW/kg

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Date: 2021/12/26

Report No. :EN/2021/C0024

WLAN 802.11ac(80M) 5.3G, Book mode, Right Edge, CH 58, 0mm, Tx1, WNC

Communication System: WLAN 5G; Frequency: 5290 MHz; Duty cycle= 1:1.085

Medium parameters used: $f = 5290$ MHz; $\sigma = 4.753$ S/m; $\epsilon_r = 36.071$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 21.6°C; Liquid temperature: 22.0°C

DASY5 Configuration:

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

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

Maximum value of SAR (interpolated) = 0.114 W/kg

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

Reference Value = 3.596 V/m; Power Drift = -0.07 dB

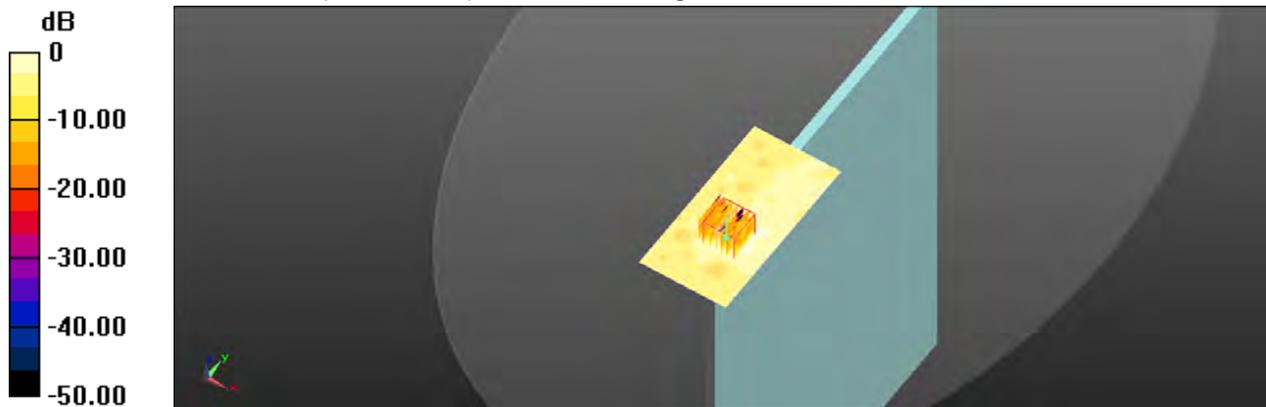
Peak SAR (extrapolated) = 0.283 W/kg

SAR(1 g) = 0.049 W/kg; SAR(10 g) = 0.017 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

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

Maximum value of SAR (measured) = 0.0926 W/kg



0 dB = 0.0926 W/kg = -10.33 dBW/kg

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Date: 2021/12/27

Report No. :EN/2021/C0024

WLAN 802.11ac(80M) 5.6G, Book mode, Right Edge, CH 138, 0mm, Tx1, WNC

Communication System: WLAN 5G; Frequency: 5690 MHz; Duty cycle= 1:1.085

Medium parameters used: $f = 5690$ MHz; $\sigma = 5.231$ S/m; $\epsilon_r = 35.391$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

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

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

Maximum value of SAR (interpolated) = 0.0994 W/kg

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

Reference Value = 3.618 V/m; Power Drift = -0.15 dB

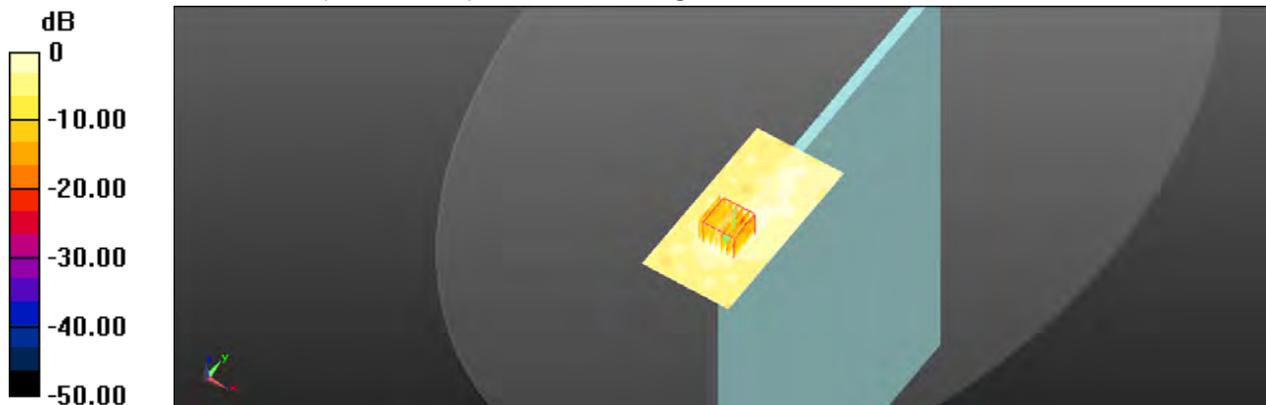
Peak SAR (extrapolated) = 0.193 W/kg

SAR(1 g) = 0.046 W/kg; SAR(10 g) = 0.018 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 45.7%

Maximum value of SAR (measured) = 0.0960 W/kg



0 dB = 0.0960 W/kg = -10.18 dBW/kg

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Date: 2021/12/28

Report No. :EN/2021/C0024

WLAN 802.11ac(80M) 5.8G, Book mode, Right Edge, CH 155, 0mm, Tx1, WNC

Communication System: WLAN 5G; Frequency: 5775 MHz; Duty cycle= 1:1.085

Medium parameters used: $f = 5775 \text{ MHz}$; $\sigma = 5.331 \text{ S/m}$; $\epsilon_r = 35.155$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.7°C; Liquid temperature: 22.2°C

DASY5 Configuration:

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

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

Maximum value of SAR (interpolated) = 0.0402 W/kg

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

Reference Value = 2.565 V/m; Power Drift = -0.06 dB

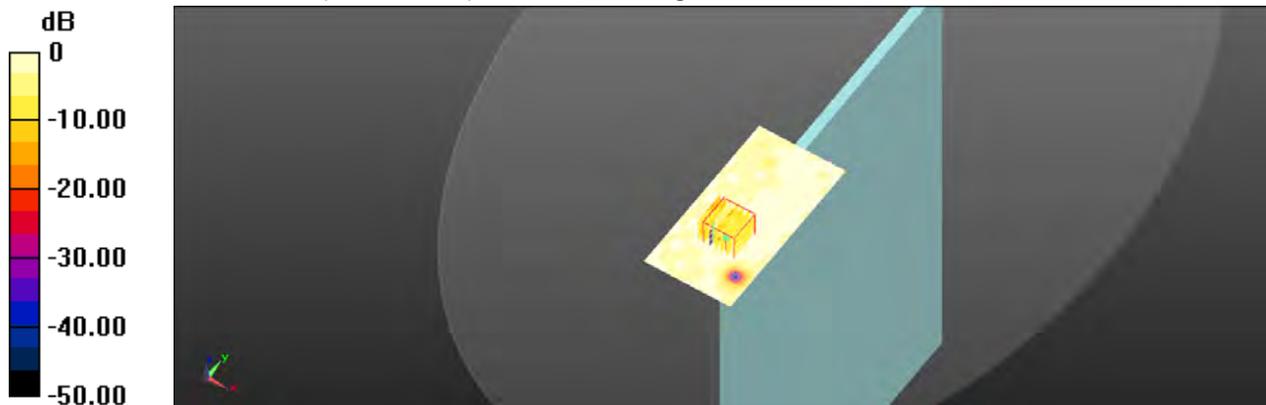
Peak SAR (extrapolated) = 0.161 W/kg

SAR(1 g) = 0.018 W/kg; SAR(10 g) = 0.00885 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 34.5%

Maximum value of SAR (measured) = 0.0381 W/kg



0 dB = 0.0381 W/kg = -14.19 dBW/kg

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Date: 2022/1/8

Report No. :EN/2021/C0024

WLAN 802.11b, Book mode, Left Edge, CH 11, 0mm, Tx2, WNC

Communication System: WLAN 2.45G; Frequency: 2462 MHz; Duty cycle= 1:1.054

Medium parameters used: $f = 2462 \text{ MHz}$; $\sigma = 1.827 \text{ S/m}$; $\epsilon_r = 39.612$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.8°C

DASY5 Configuration:

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

Area Scan (51x121x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.0852 W/kg

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

Reference Value = 6.094 V/m; Power Drift = -0.16 dB

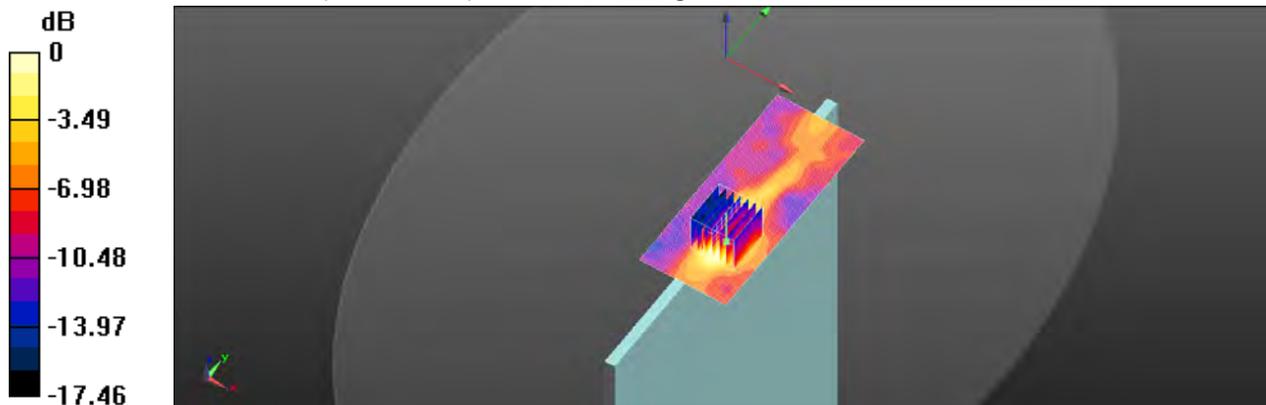
Peak SAR (extrapolated) = 0.112 W/kg

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

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

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

Maximum value of SAR (measured) = 0.0817 W/kg



0 dB = 0.0817 W/kg = -10.88 dBW/kg

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Date: 2021/12/25

Report No. :EN/2021/C0024

WLAN 802.11n(40M) 5.2G, Book mode, Left Edge, CH 46, 0mm, Tx2, WNC

Communication System: WLAN 5G; Frequency: 5230 MHz; Duty cycle= 1:1.066

Medium parameters used: $f = 5230$ MHz; $\sigma = 4.68$ S/m; $\epsilon_r = 36.195$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

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

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

Maximum value of SAR (interpolated) = 0.0787 W/kg

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

Reference Value = 2.833 V/m; Power Drift = 0.07 dB

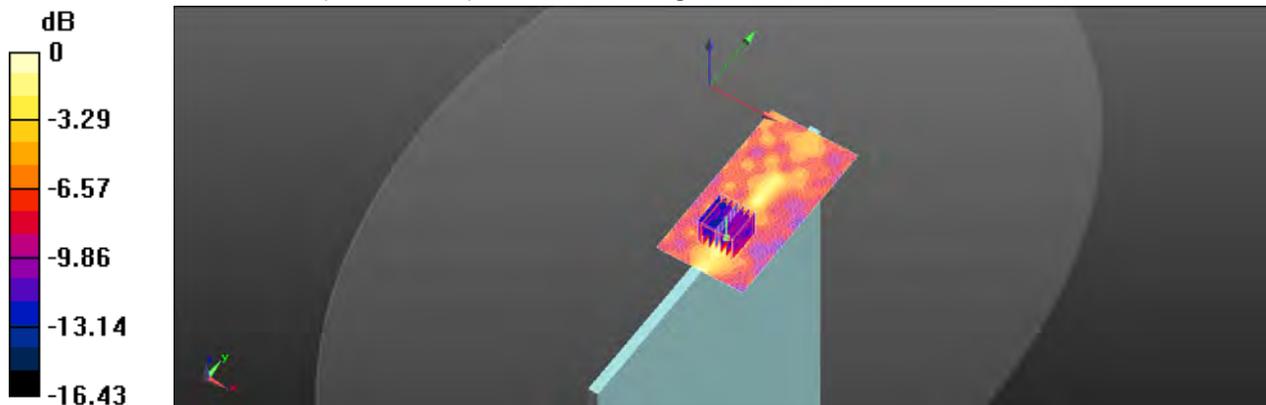
Peak SAR (extrapolated) = 0.159 W/kg

SAR(1 g) = 0.041 W/kg; SAR(10 g) = 0.016 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 62.6%

Maximum value of SAR (measured) = 0.0848 W/kg



0 dB = 0.0848 W/kg = -10.72 dBW/kg

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Date: 2021/12/26

Report No. :EN/2021/C0024

WLAN 802.11ac(80M) 5.3G, Book mode, Left Edge, CH 58, 0mm, Tx2, WNC

Communication System: WLAN 5G; Frequency: 5290 MHz; Duty cycle= 1:1.085

Medium parameters used: $f = 5290$ MHz; $\sigma = 4.753$ S/m; $\epsilon_r = 36.071$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 21.6°C; Liquid temperature: 22.0°C

DASY5 Configuration:

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

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

Maximum value of SAR (interpolated) = 0.0440 W/kg

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

Reference Value = 2.014 V/m; Power Drift = -0.15 dB

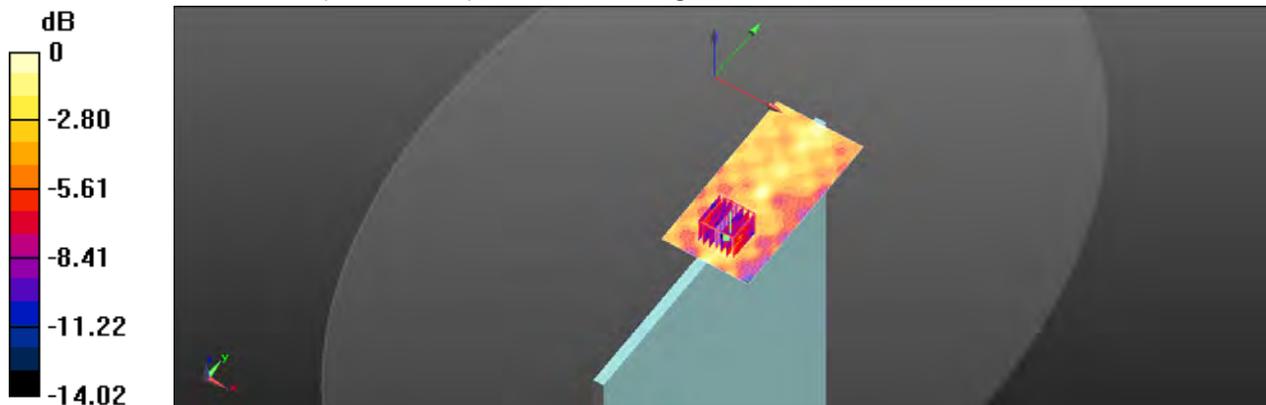
Peak SAR (extrapolated) = 0.163 W/kg

SAR(1 g) = 0.022 W/kg; SAR(10 g) = 0.011 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 44.5%

Maximum value of SAR (measured) = 0.0443 W/kg



0 dB = 0.0443 W/kg = -13.54 dBW/kg

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Date: 2021/12/27

Report No. :EN/2021/C0024

WLAN 802.11ac(80M) 5.6G, Book mode, Left Edge, CH 106, 0mm, Tx2, WNC

Communication System: WLAN 5G; Frequency: 5530 MHz; Duty cycle= 1:1.085

Medium parameters used: $f = 5530$ MHz; $\sigma = 5.043$ S/m; $\epsilon_r = 35.738$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(4.9, 4.9, 4.9) @ 5530 MHz; Calibrated: 2021/4/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2021/4/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x131x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.0665 W/kg

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

Reference Value = 2.565 V/m; Power Drift = -0.14 dB

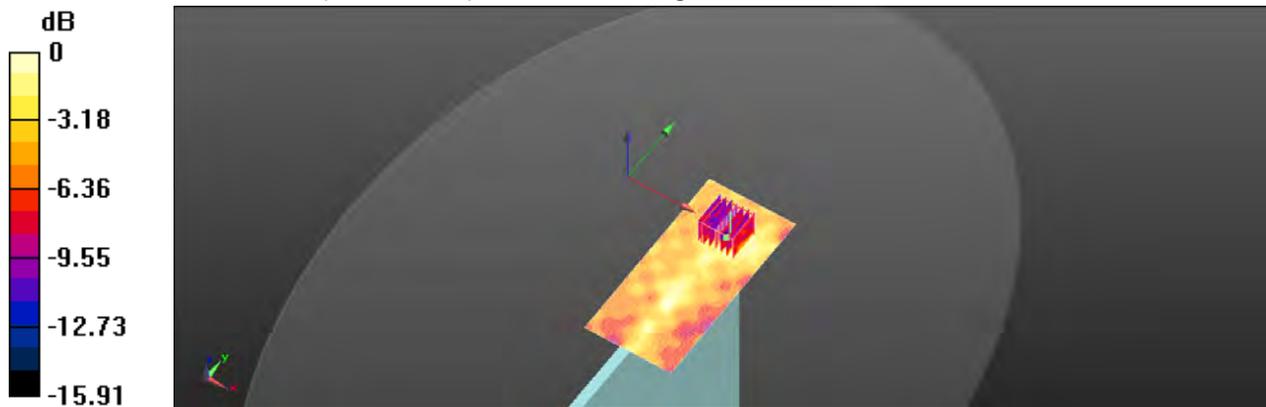
Peak SAR (extrapolated) = 0.133 W/kg

SAR(1 g) = 0.033 W/kg; SAR(10 g) = 0.017 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

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

Maximum value of SAR (measured) = 0.0652 W/kg



0 dB = 0.0652 W/kg = -11.86 dBW/kg

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Date: 2021/12/28

Report No. :EN/2021/C0024

WLAN 802.11ac(80M) 5.8G, Book mode, Left Edge, CH 155, 0mm, Tx2, WNC

Communication System: WLAN 5G; Frequency: 5775 MHz; Duty cycle= 1:1.085

Medium parameters used: $f = 5775 \text{ MHz}$; $\sigma = 5.331 \text{ S/m}$; $\epsilon_r = 35.155$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.7°C ; Liquid temperature: 22.2°C

DASY5 Configuration:

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

Area Scan (61x131x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 0.117 W/kg

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

Reference Value = 3.773 V/m ; Power Drift = -0.17 dB

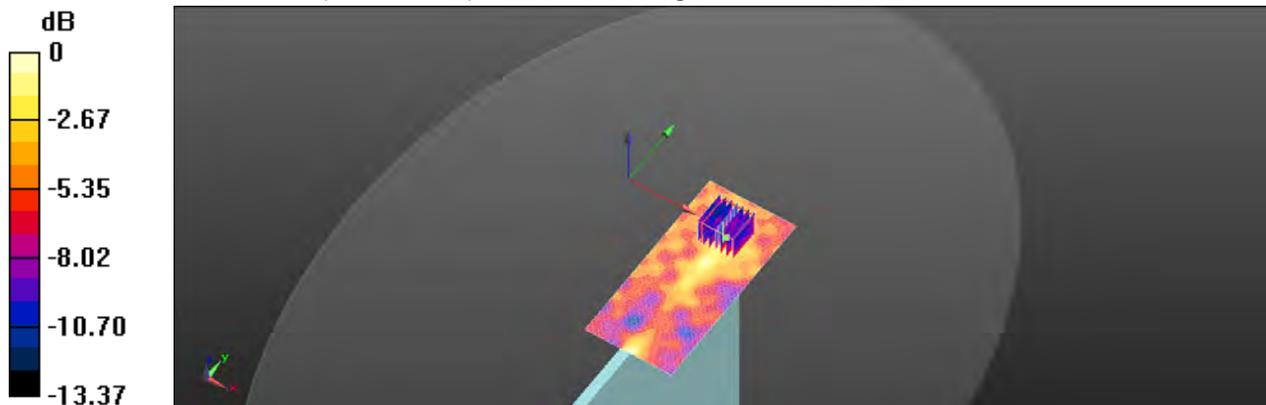
Peak SAR (extrapolated) = 0.233 W/kg

SAR(1 g) = 0.047 W/kg ; SAR(10 g) = 0.021 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 49.6%

Maximum value of SAR (measured) = 0.0875 W/kg



0 dB = 0.0875 W/kg = -10.58 dBW/kg

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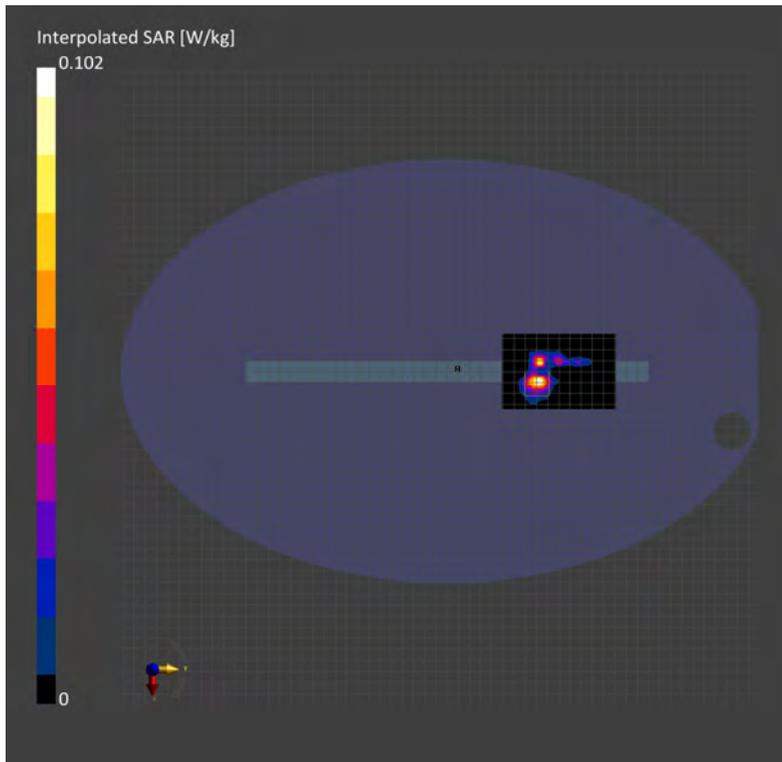
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Report No. :EN/2021/C0024
Measurement Report for Bullet, EDGE TOP, U-NII-5, IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 79 (6345.0 MHz)
Device Under Test Properties

Model, Manufacturer		Dimensions [mm]		IMEI	DUT Type		
Bullet		232.0 x 360.0 x 20.0			Tablet		
Exposure Conditions							
Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	EDGE TOP, 0.00	U-NII-5	WLAN, 10743-AAC	6345.0, 79	5.5	5.827	34.311
Hardware Setup							
Phantom	TSL, Measured Date	Probe, Calibration Date			DAE, Calibration Date		
ELI	HBBL-600-10000	EX3DN4 - SN7375, 2021-12-20			DAE4 Sn1685, 2021-03-01		

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
Graded Grid	Yes	Yes	Yes
Grading Ratio	1.5	1.5	1.4
MAIA	N/A	N/A	N/A
Surface Detection	VMS + Sp	VMS + Sp	VMS + Sp
Scan Method	Measured	Measured	Measured

Measurement Results		Area Scan	Zoom Scan
Date		2022-01-11, 02:24	2022-01-11, 02:23
psSAR1g [W/kg]		0.063	0.084
psSAR10g [W/kg]		0.017	0.024
Power DnH [dB]		0.12	0.11
Power Scaling	Disabled	Disabled	Disabled
Scaling Factor [dB]			
TSL Correction	No correction	No correction	No correction
MCM1 [%]			52.7
Dist 3dB Peak [mm]			4.8



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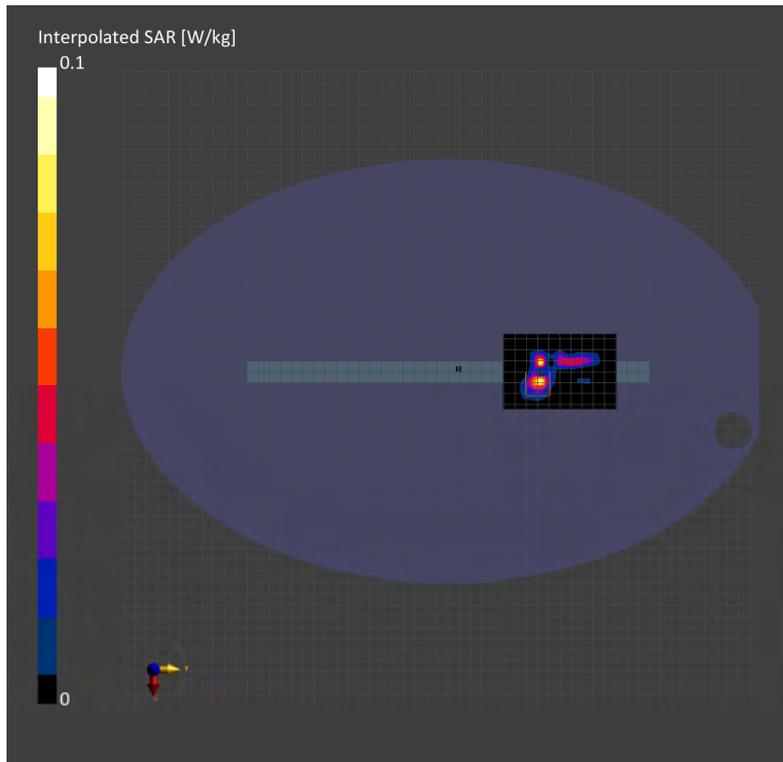
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Report No. :EN/2021/C0024
Measurement Report for Bullet, EDGE TOP, U-NII-6, IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 111 (6505.0 MHz)
Device Under Test Properties

Model, Manufacturer		Dimensions [mm]		IMEI	EUT Type		
Bullet		232.0 x 360.0 x 20.0			Tablet		
Exposure Conditions							
Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	EDGE TOP, 0.00	U-NII-6	WLAN, 10743-AAC	6505.0, 111	5.5	6.013	34.115
Hardware Setup							
Phantom	TSL, Measured Date	Probe, Calibration Date			DAE, Calibration Date		
ELI	HBBL-600-10000	EX3DN4 - SN7375, 2021-12-20			DAE4 Sn1685, 2021-03-01		

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
Graded Grid		Yes	Yes
Grading Ratio		1.5	1.4
MAIA		N/A	N/A
Surface Detection		VMS + Sp	VMS + Sp
Scan Method		Measured	Measured

Measurement Results			
		Area Scan	Zoom Scan
Date		2022-01-11, 02:42	2022-01-11, 02:51
psSAR1g [W/kg]		0.053	0.071
psSAR10g [W/kg]		0.014	0.020
Power Drift [dB]		0.09	-0.14
Power Scaling		Disabled	Disabled
Scaling Factor [dB]			
TSL Correction		No correction	No correction
MCM1 [%]			52.9
Dist 3dB Peak [mm]			4.8



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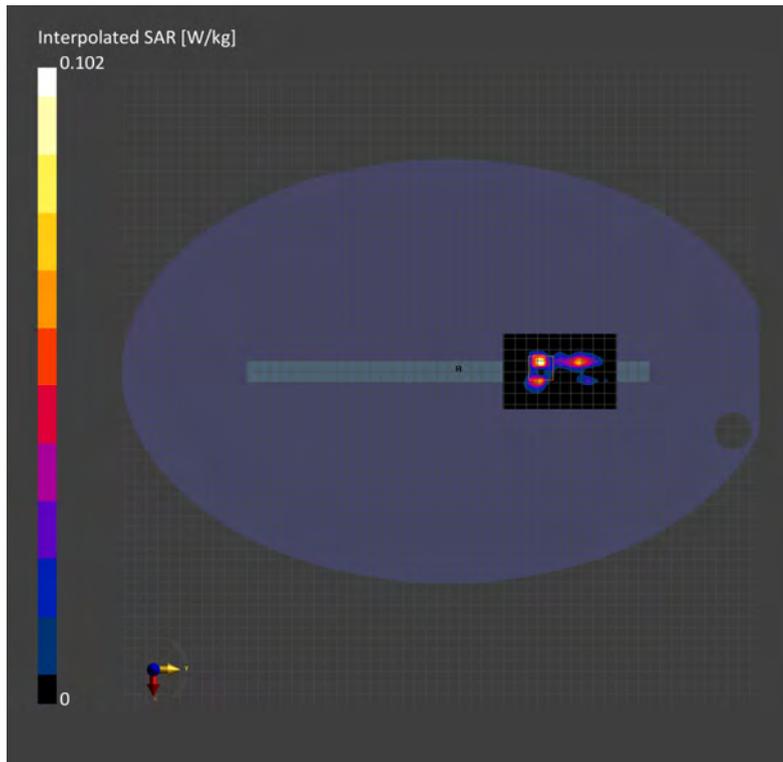
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Report No. : EN/2021/C0024
Measurement Report for Bullet, EDGE TOP, U-NII-7, IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 143 (6665.0 MHz)
Device Under Test Properties

Model, Manufacturer		Dimensions [mm]		IMEI	DUT Type		
Bullet		232.0 x 360.0 x 20.0			Tablet		
Exposure Conditions							
Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	EDGE TOP, 0.00	U-NII-7	WLAN, 10743-A4C	6665.0, 143	5.5	6.194	33.921
Hardware Setup							
Phantom	TSL, Measured Date	Probe, Calibration Date			DAE, Calibration Date		
ELI	HBBL-600-10000	EX3DN4 - SN7375, 2021-12-20			DAE4 Sn1685, 2021-03-01		

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
Graded Grid		Yes	Yes
Grading Ratio		1.5	1.4
MAIA		N/A	N/A
Surface Detection		VMS + Sp	VMS + Sp
Scan Method		Measured	Measured

Measurement Results		Area Scan	Zoom Scan
Date		2022-01-11, 03:11	2022-01-11, 03:20
psSAR1g [W/kg]		0.056	0.078
psSAR10g [W/kg]		0.013	0.021
Power Drift [dB]		-0.04	-0.07
Power Scaling		Disabled	Disabled
Scaling Factor [dB]			
TSL Correction		No correction	No correction
MCM1 [%]			54.6
Dist 3dB Peak [mm]			3.8



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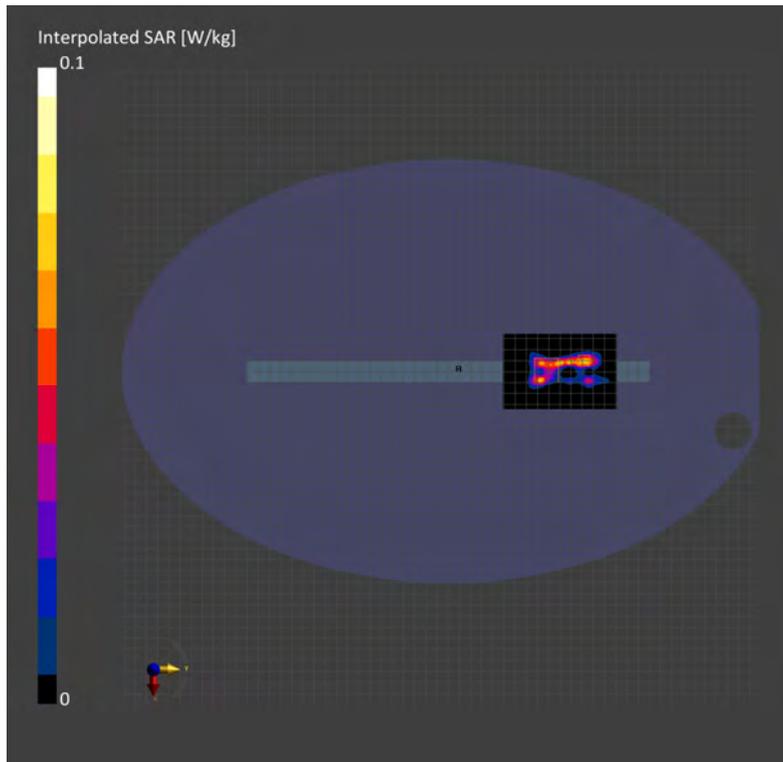
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Report No. :EN/2021/C0024
Measurement Report for Bullet, EDGE TOP, U-NII-B, IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 207 (6985.0 MHz)
Device Under Test Properties

Model, Manufacturer		Dimensions [mm]		IMEI	DUT Type		
Bullet		232.0 x 360.0 x 20.0			Tablet		
Exposure Conditions							
Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	EDGE TOP, 0.00	U-NII-B	WLAN, 10743-A4C	6985.0, 207	5.45	6.565	33.562
Hardware Setup							
Phantom	TSL, Measured Date	Probe, Calibration Date			DAE, Calibration Date		
ELI	HBBL-600-10000	EX3DN4 - SN7375, 2021-12-20			DAE4 Sn1685, 2021-03-01		

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
Graded Grid		Yes	Yes
Grading Ratio		1.5	1.4
MAIA		N/A	N/A
Surface Detection		VMS + Sp	VMS + Sp
Scan Method		Measured	Measured

Measurement Results		Area Scan	Zoom Scan
Date		2022-01-11, 03:50	2022-01-11, 03:59
psSAR1g [W/kg]		0.052	0.072
psSAR10g [W/kg]		0.017	0.021
Power Drift [dB]		0.03	0.02
Power Scaling		Disabled	Disabled
Scaling Factor [dB]			
TSL Correction		No correction	No correction
MCM1 [%]			45.8
Dist 3dB Peak [mm]			4.1



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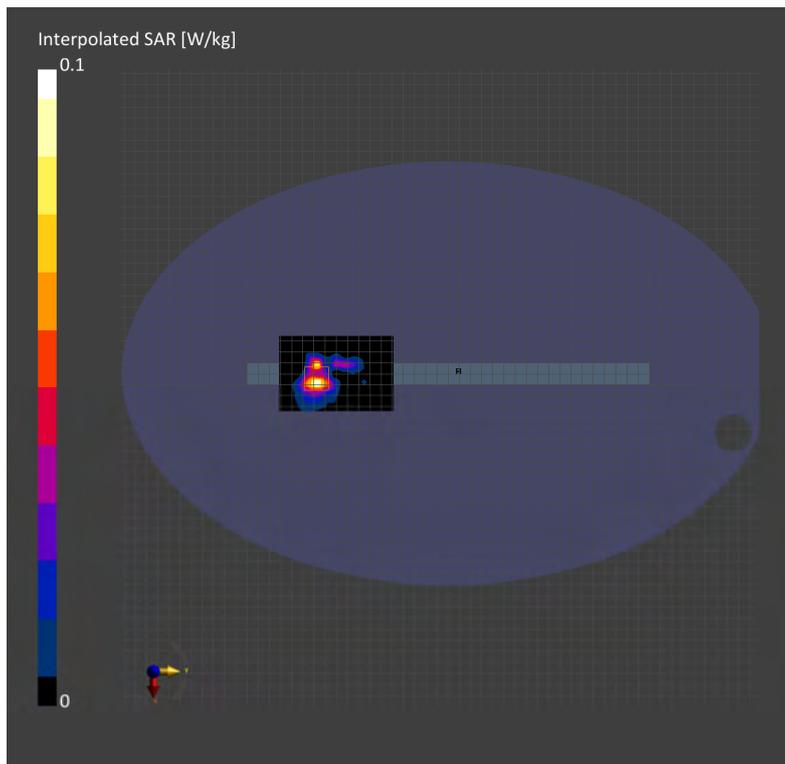
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Report No. : EN/2021/C0024
Measurement Report for Bullet, EDGE TOP, U-NII-5, IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 79 (6345.0 MHz)
Device Under Test Properties

Model, Manufacturer		Dimensions [mm]		IMEI	DUT Type		
Bullet		232.0 x 360.0 x 20.0			Tablet		
Exposure Conditions							
Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	EDGE TOP, 0.00	U-NII-5	WLAN, 10743-A4C	6345.0, 79	5.5	5.827	34.311
Hardware Setup							
Phantom	TSL, Measured Date	Probe, Calibration Date			DAE, Calibration Date		
ELI	HBBL-600-10000	EX3DN4 - SN7375, 2021-12-20			DAE4 Sn1685, 2021-03-01		

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 1.2
Sensor Surface [mm]		3.0	1.4
Graded Grid		Yes	Yes
Grading Ratio		1.5	1.2
MAIA		N/A	N/A
Surface Detection		VMS + Sp	VMS + Sp
Scan Method		Measured	Measured

Measurement Results		Area Scan	Zoom Scan
Date		2022-01-11, 04:50	2022-01-11, 04:59
psSAR1g [W/kg]		0.064	0.092
psSAR10g [W/kg]		0.020	0.026
Power Drift [dB]		-0.11	-0.08
Power Scaling		Disabled	Disabled
Scaling Factor [dB]			
TSL Correction		No correction	No correction
MCM1 [%]			97.3
Dist 3dB Peak [mm]			4.1



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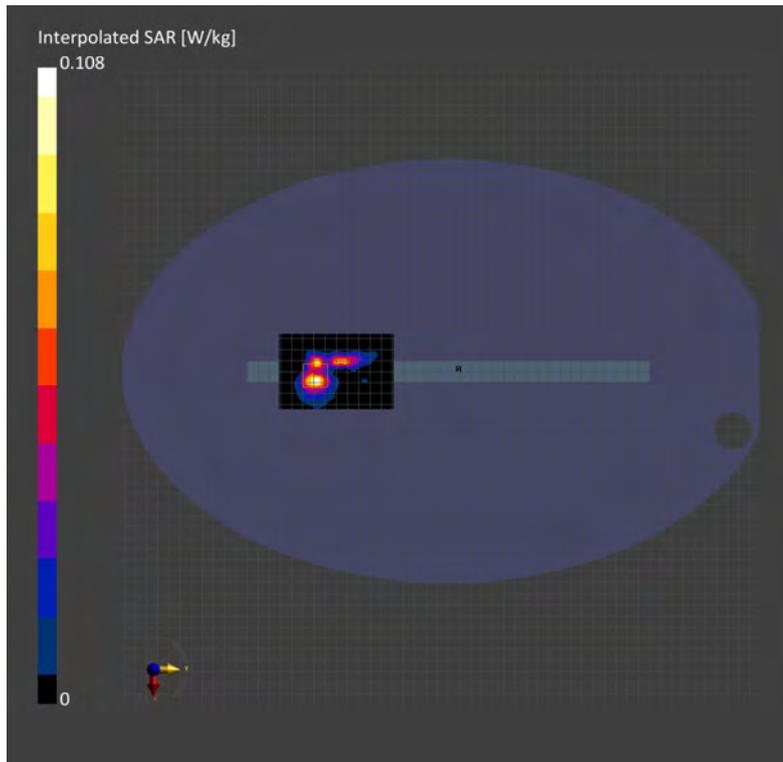
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Report No. : EN/2021/C0024
Measurement Report for Bullet, EDGE TOP, U-NII-6, IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 111 (6505.0 MHz)
Device Under Test Properties

Model, Manufacturer		Dimensions [mm]		IMEI	DUT Type		
Bullet		232.0 x 360.0 x 20.0			Tablet		
Exposure Conditions							
Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	EDGE TOP, 0.00	U-NII-6	WLAN, 10743-AAC	6505.0, 111	5.5	6.013	34.115
Hardware Setup							
Phantom	TSL, Measured Date	Probe, Calibration Date			DAE, Calibration Date		
ELI	HBBL-600-10000	EX3DN4 - SN7375, 2021-12-20			DAE4 Sn1685, 2021-03-01		

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
Graded Grid		Yes	Yes
Grading Ratio		1.5	1.4
MAIA		N/A	N/A
Surface Detection		VMS + Sp	VMS + Sp
Scan Method		Measured	Measured

Measurement Results			
		Area Scan	Zoom Scan
Date		2022-01-11, 05:19	2022-01-11, 05:28
psSAR1g [W/kg]		0.072	0.102
psSAR10g [W/kg]		0.022	0.029
Power Drift [dB]		0.13	-0.01
Power Scaling		Disabled	Disabled
Scaling Factor [dB]			
TSL Correction		No correction	No correction
MCM1 [%]			51.2
Dist 3dB Peak [mm]			5.4



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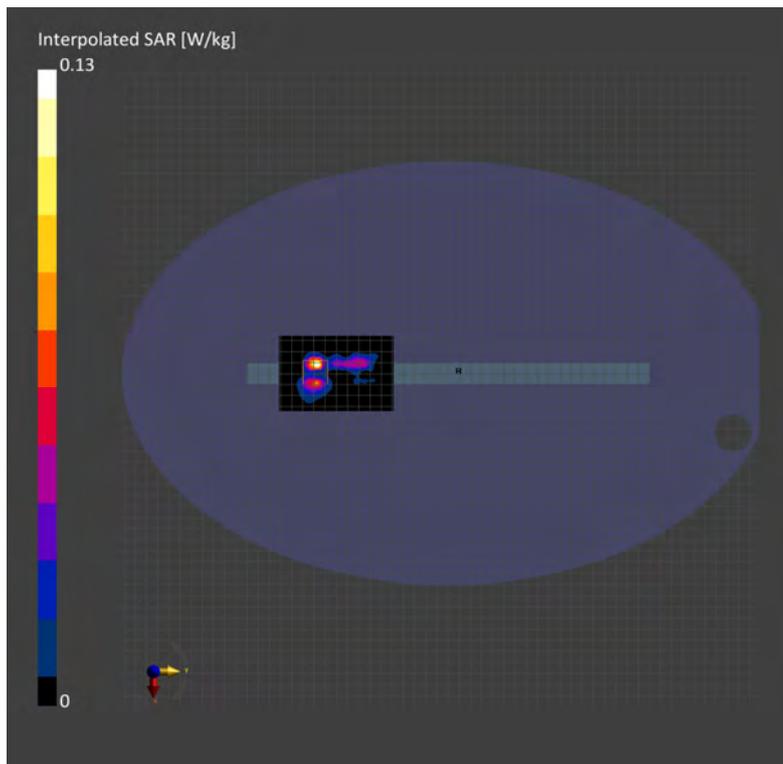
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Report No. : EN/2021/C0024
Measurement Report for Bullet, EDGE TOP, U-NII-7, IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 143 (6665.0 MHz)

Device Under Test Properties							
Model, Manufacturer		Dimensions [mm]		IMEI	DUT Type		
Bullet:		232.0 x 360.0 x 20.0			Tablet		
Exposure Conditions							
Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	EDGE TOP, 0.00	U-NII-7	WLAN, 10743-A4C	6665.0, 143	5.5	6.194	33.921
Hardware Setup							
Phantom	TSL, Measured Date	Probe, Calibration Date		DAE, Calibration Date			
ELI	HBBL-600-10000	EX3DN4 - SN7375, 2021-12-20		DAE4 Sn1685, 2021-03-01			

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
Graded Grid		Yes	Yes
Grading Ratio		1.5	1.4
MAIA		N/A	N/A
Surface Detection		VMS + Sp	VMS + Sp
Scan Method		Measured	Measured

Measurement Results			
		Area Scan	Zoom Scan
Date		2022-01-11, 05:48	2022-01-11, 05:47
psSAR1g [W/kg]		0.075	0.094
psSAR10g [W/kg]		0.018	0.026
Power Drift [dB]		-0.14	-0.04
Power Scaling		Disabled	Disabled
Scaling Factor [dB]			
TSL Correction		No correction	No correction
MCM1 [%]			51.4
Dist 3dB Peak [mm]			5.2



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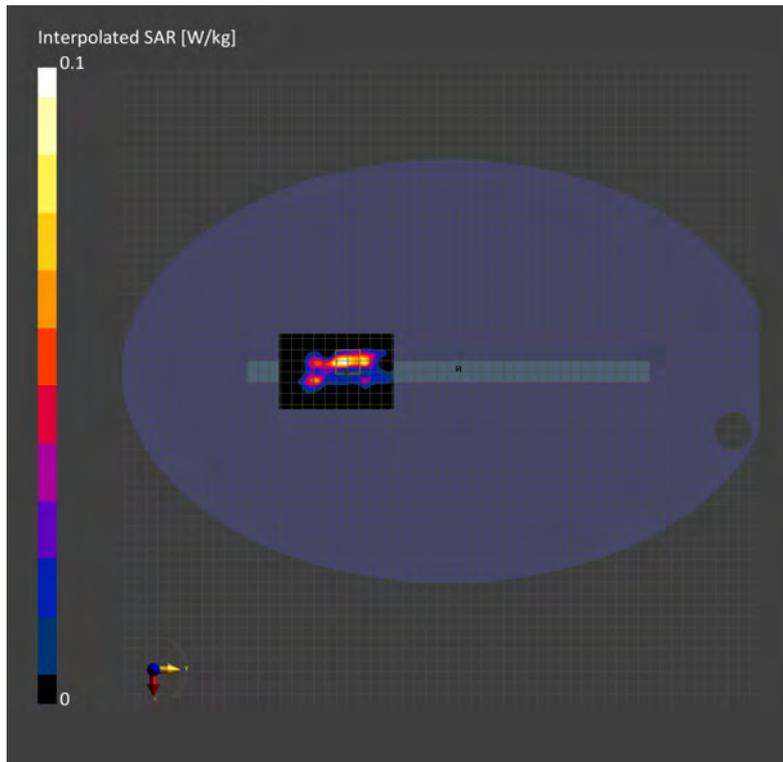
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Report No. : EN/2021/C0024
Measurement Report for Bullet, EDGE TOP, U-NII-B, IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 207 (5985.0 MHz)
Device Under Test Properties

Model, Manufacturer		Dimensions [mm]		IMEI	DUT Type		
Bullet		232.0 x 360.0 x 20.0			Tablet		
Exposure Conditions							
Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	EDGE TOP, 0.00	U-NII-B	WLAN, 10743-A4C	5985.0, 207	5.45	6.565	33.562
Hardware Setup							
Phantom	TSL, Measured Date	Probe, Calibration Date			DAE, Calibration Date		
ELI	HBBL-600-10000	EX3DN4 - SN7375, 2021-12-20			DAE4 Sn1685, 2021-03-01		

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
Graded Grid		Yes	Yes
Grading Ratio		1.5	1.4
MAIA		N/A	N/A
Surface Detection		VMS + Sp	VMS + Sp
Scan Method		Measured	Measured

Measurement Results			
		Area Scan	Zoom Scan
Date		2022-01-11, 06:16	2022-01-11, 06:25
psSAR1g [W/kg]		0.070	0.079
psSAR10g [W/kg]		0.019	0.023
Power DnR [dB]		0.12	-0.08
Power Scaling		Disabled	Disabled
Scaling Factor [dB]			
TSL Correction		No correction	No correction
MCM1 [%]			48.4
Dist 3dB Peak [mm]			5.5



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Report No. :EN/2021/C0024
Measurement Report for Bulleitt, EDGE TOP, U-NII-5, IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 79 (6345.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions (mm)	IMEI	DUT Type
Bulleitt	232.0 x 360.0 x 20.0		Tablet

Exposure Conditions

Phantom Section, TSL	Position, Test Distance (mm)	Band	Group, UID	Frequency (MHz), Channel Number	Conversion Factor	TSL Conductivity (S/m)	TSL Permittivity
Flat, HSL	EDGE TOP, 0.00	U-NII-5	WLAN, 10743-AAG	6345.0, 79	5.5	5.827	34.311

Hardware Setup

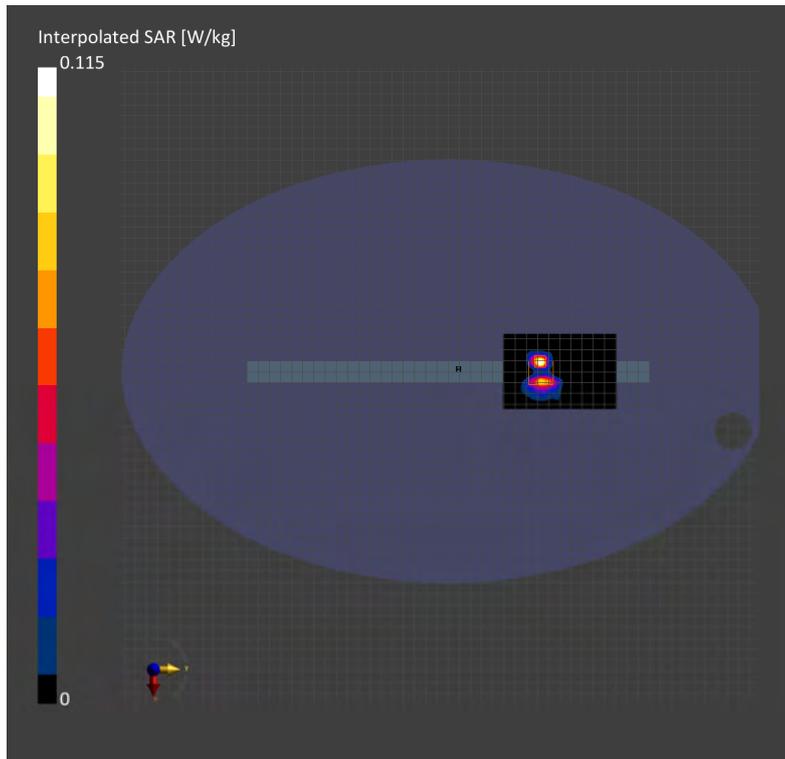
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI	HBSL-600-10000	EX3DN4 - SN7375, 2021-12-20	DAE4 Sn1865, 2021-03-01

Scans Setup

	Area Scan	Zoom Scan
Grid Extent (mm)	69.0 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
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MANA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-01-11, 12:25	2022-01-11, 12:34
psSAR1g (W/kg)	0.064	0.076
psSAR10g (W/kg)	0.016	0.020
Power Dn (dB)	-0.12	-0.15
Power Scaling	Disabled	Disabled
Scaling Factor (dB)		
TSL Correction	No correction	No correction
M2M1 (%)		52.7
Dist 3dB Peak (mm)		4.4



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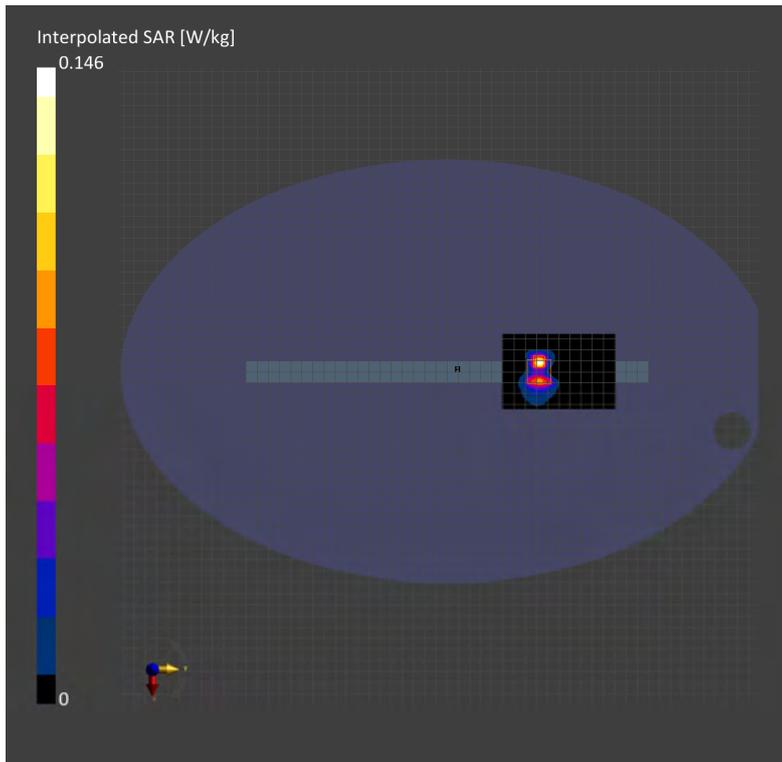
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Report No. : EN/2021/C0024
Measurement Report for Bullet, EDGE TOP, U-NII-6, IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 111 (6505.0 MHz)
Device Under Test Properties

Model, Manufacturer		Dimensions [mm]		IMEI	EUT Type		
Bullet		232.0 x 360.0 x 20.0			Tablet		
Exposure Conditions							
Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	EDGE TOP, 0.00	U-NII-6	WLAN, 10743-AAC	6505.0, 111	5.5	6.013	34.115
Hardware Setup							
Phantom	TSL, Measured Date	Probe, Calibration Date			DAE, Calibration Date		
ELI	HBBL-600-10000	EX3DN4 - SN7375, 2021-12-20			DAE4 Sn1685, 2021-03-01		

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
Graded Grid		Yes	Yes
Grading Ratio		1.5	1.4
MAIA		N/A	N/A
Surface Detection		VMS + Sp	VMS + Sp
Scan Method		Measured	Measured

Measurement Results		Area Scan	Zoom Scan
Date		2022-01-11, 12:55	2022-01-11, 13:04
psSAR1g [W/kg]		0.084	0.089
psSAR10g [W/kg]		0.023	0.024
Power Drift [dB]		0.05	-0.03
Power Scaling		Disabled	Disabled
Scaling Factor [dB]			
TSL Correction		No correction	No correction
MCM1 [%]			52.2
Dist 3dB Peak [mm]			4.0



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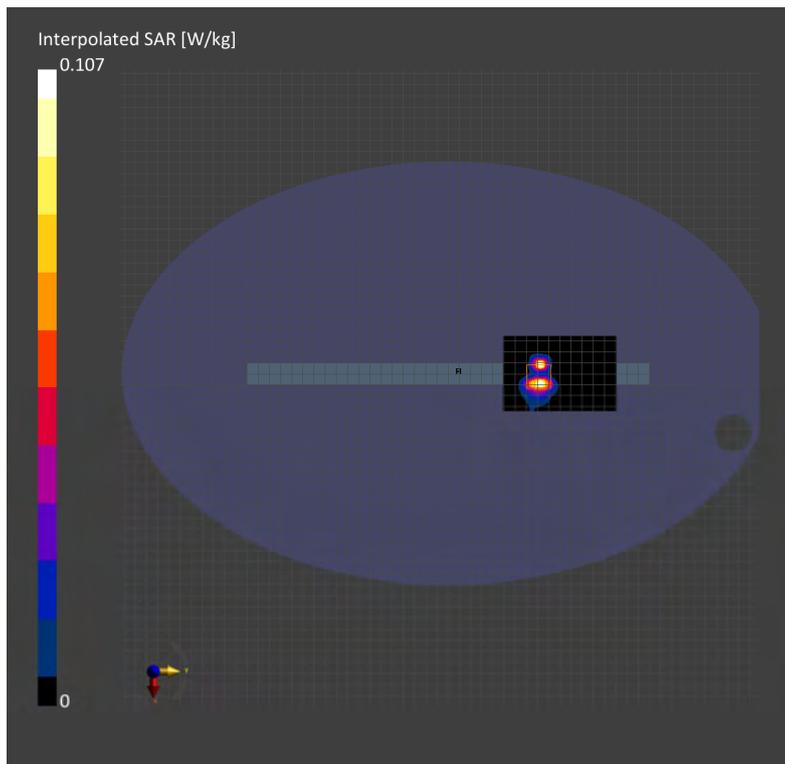
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Report No. : EN/2021/C0024
Measurement Report for Bullet, EDGE TOP, U-NII-7, IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 143 (6665.0 MHz)
Device Under Test Properties

Model, Manufacturer		Dimensions [mm]		IMEI	EUT Type		
Bullet		232.0 x 360.0 x 20.0			Tablet		
Exposure Conditions							
Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	EDGE TOP, 0.00	U-NII-7	WLAN, 10743-AAC	6665.0, 143	5.5	6.194	33.921
Hardware Setup							
Phantom	TSL, Measured Date	Probe, Calibration Date			DAE, Calibration Date		
ELI	HBBL-600-10000	EX3DN4 - SN7375, 2021-12-20			DAE4 Sn1665, 2021-03-01		

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	2.2 x 2.2 x 1.2
Sensor Surface [mm]		3.0	1.4
Graded Grid		Yes	Yes
Grading Ratio		1.5	1.2
MAIA		N/A	N/A
Surface Detection		VMS + Sp	VMS + Sp
Scan Method		Measured	Measured

Measurement Results			
		Area Scan	Zoom Scan
Date		2022-01-11, 13:27	2022-01-11, 13:36
psSAR1g [W/kg]		0.065	0.080
psSAR10g [W/kg]		0.019	0.024
Power Drift [dB]		-0.19	-0.06
Power Scaling		Disabled	Disabled
Scaling Factor [dB]			
TSL Correction		No correction	No correction
MCM1 [%]			56.4
Dist 3dB Peak [mm]			3.5



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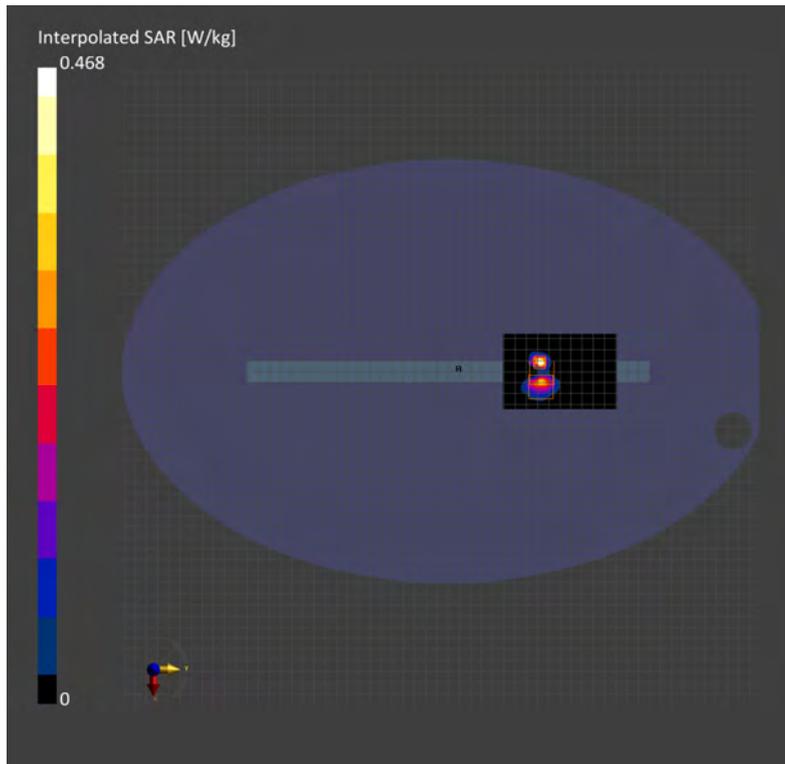
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Report No. : EN/2021/C0024
Measurement Report for Bullet, EDGE TOP, U-NII-B, IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 207 (5985.0 MHz)
Device Under Test Properties

Model, Manufacturer		Dimensions [mm]		IMEI	DUT Type		
Bullet		232.0 x 360.0 x 20.0			Tablet		
Exposure Conditions							
Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	EDGE TOP, 0.00	U-NII-B	WLAN, 10743-A4C	5985.0, 207	5.45	6.565	33.562
Hardware Setup							
Phantom	TSL, Measured Date	Probe, Calibration Date			DAE, Calibration Date		
ELI	HBBL-600-10000	EX3DN4 - SN7375, 2021-12-20			DAE4 Sn1685, 2021-03-01		

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
Graded Grid		Yes	Yes
Grading Ratio		1.5	1.4
MAIA		N/A	N/A
Surface Detection		VMS + Sp	VMS + Sp
Scan Method		Measured	Measured

Measurement Results			
		Area Scan	Zoom Scan
Date		2022-01-11, 13:58	2022-01-11, 14:07
psSAR1g [W/kg]		0.056	0.068
psSAR10g [W/kg]		0.014	0.020
Power Drift [dB]		0.17	-0.15
Power Scaling		Disabled	Disabled
Scaling Factor [dB]			
TSL Correction		No correction	No correction
MCM1 [%]			48.2
Dist 3dB Peak [mm]			4.3



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Report No. : EN/2021/C0024
Measurement Report for Bullet, EDGE TOP, U-NII-5, IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 15 (6025.0 MHz)

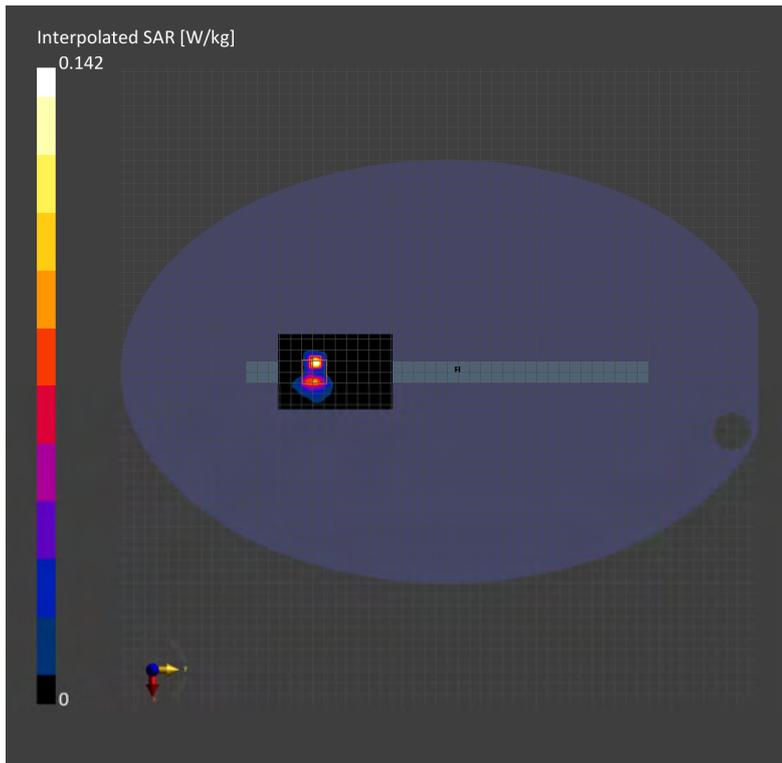
Device Under Test Properties		Dimensions (mm)	IMEI	DUT Type
Model, Manufacturer		232.0 x 360.0 x 20.0		Tablet

Exposure Conditions							
Phantom Section, TSL	Position, Test Distance (mm)	Band	Group, UID	Frequency (MHz), Channel Number	Conversion Factor	TSL Conductivity (S/m)	TSL Permittivity
Flat, HSL	EDGE TOP, 0.00	U-NII-5	WLAN, 10743-AAC	6025.0, 15	5.5	5.455	34.654

Hardware Setup			
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELU	HBL-600-10000	EX3DV4 - SN7375, 2021-12-20	DAE-4 Sn1665, 2021-03-01

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 1.2	
Sensor Surface (mm)	3.0	1.4	
Graded Grid	Yes	Yes	
Grading Rate	1.5	1.2	
MUA	N/A	N/A	
Surface Detection	VMS + 6p	VMS + 6p	
Scan Method	Measured	Measured	

Measurement Results			
	Area Scan	Zoom Scan	
Date	2022-01-11, 14:30	2022-01-11, 14:39	
psSAR1g (W/kg)	0.075	0.093	
psSAR10g (W/kg)	0.029	0.029	
Power Drift (dB)	0.11	-0.03	
Power Scaling	Disabled	Disabled	
Scaling Factor (dB)			
TSL Correction	No correction	No correction	
MD/M1 (%)		58.5	
Dist 3dB Peak (mm)		4.4	



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Report No. : EN/2021/C0024
Measurement Report for Bullet, EDGE TOP, U-NII-6, IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 111 (6505.0 MHz)

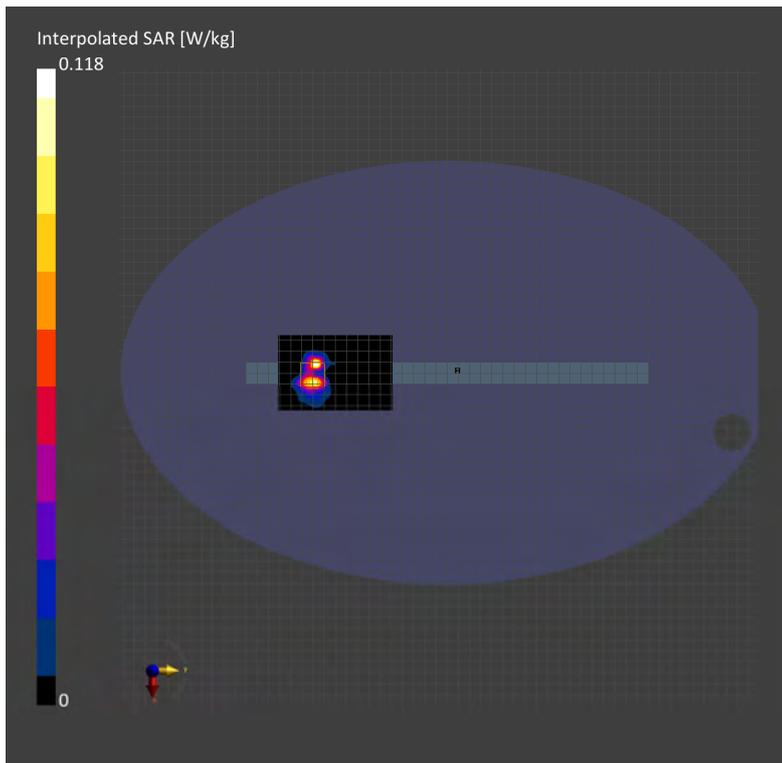
Device Under Test Properties		Dimensions (mm)	IMEI	DUT Type
Model, Manufacturer				
Bullet,		232.0 x 360.0 x 20.0		Tablet

Exposure Conditions							
Phantom Section, TSL	Position, Test Distance (mm)	Band	Group, UID	Frequency (MHz), Channel Number	Conversion Factor	TSL Conductivity (S/m)	TSL Permittivity
Flat, HSL	EDGE TOP, 0.00	U-NII-6	WLAN, 10743-AAC	6505.0, 111	5.5	6.013	34.115

Hardware Setup			
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI	HBBL-600-10000	EX3DV4 - SN7375, 2021-12-20	DAE4 Sn1665, 2021-03-01

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 1.2	
Sensor Surface (mm)	9.0	1.4	
Graded Grid	Yes	Yes	
Grading Ratio	1.5	1.2	
MAIA	N/A	N/A	
Surface Detection	VMS + Ep	VMS + Ep	
Scan Method	Measured	Measured	

Measurement Results			
	Area Scan	Zoom Scan	
Date	2022-01-11, 15:34	2022-01-11, 15:43	
psSAR1g (W/kg)	0.068	0.068	
psSAR10g (W/kg)	0.022	0.028	
Power Drift (dB)	0.18	-0.13	
Power Scaling	Disabled	Disabled	
Scaling Factor (dB)			
TSL Correction	No correction	No correction	
M2/M1 (%)		55.7	
Dist 3dB Peak (mm)		4.8	



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Report No. : EN/2021/C0024
Measurement Report for Bullet, EDGE TOP, U-NII-7, IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 143 (5665.0 MHz)

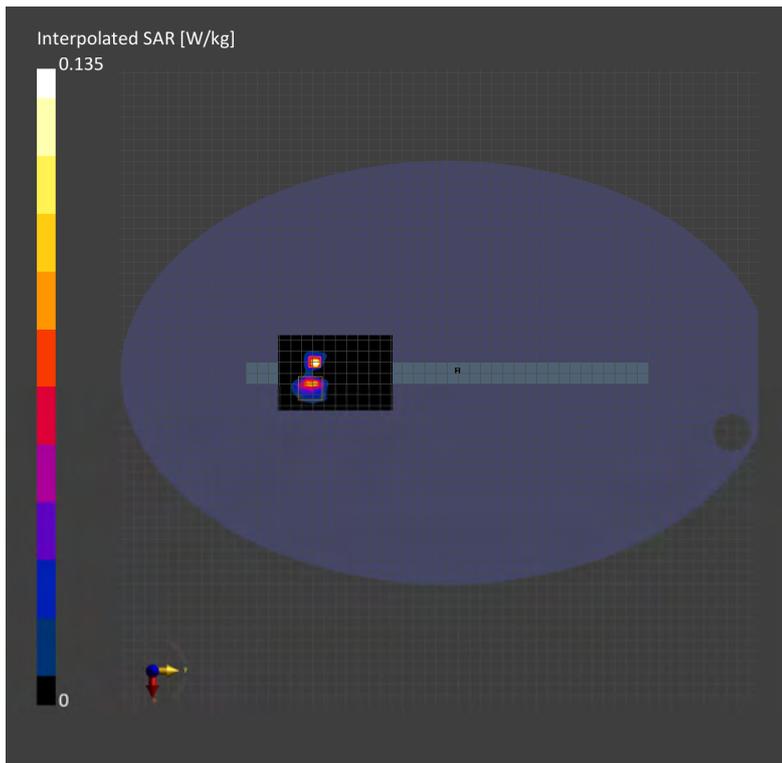
Device Under Test Properties		Dimensions (mm)	IMEI	DUT Type
Model, Manufacturer				
Bullet,		232.0 x 360.0 x 20.0		Tablet

Exposure Conditions							
Phantom Section, TSL	Position, Test Distance (mm)	Band	Group, UID	Frequency (MHz), Channel Number	Conversion Factor	TSL Conductivity (S/m)	TSL Permittivity
Flat, HSL	EDGE TOP, 0.00	U-NII-7	WLAN, 10743-AAC	5665.0, 143	5.5	6.194	33.921

Hardware Setup			
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI	HBBL-600-10000	EX3DV4 - SN7375, 2021-12-20	DAE4 Sn1665, 2021-03-01

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
Graded Grid		Yes	Yes
Grading Ratio		1.5	1.4
MAIA		N/A	N/A
Surface Detection		VMS + Ep	VMS + Ep
Scan Method		Measured	Measured

Measurement Results			
		Area Scan	Zoom Scan
Date		2022-01-11, 16:06	2022-01-11, 16:15
µSAR1g (W/kg)		0.072	0.096
µSAR10g (W/kg)		0.017	0.025
Power Drift (dB)		0.04	-0.14
Power Scaling		Disabled	Disabled
Scaling Factor (dB)			
TSL Correction		No correction	No correction
MGM1 (%)			49.5
Dist 3dB Peak (mm)			4.4



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Report No. : EN/2021/C0024
Measurement Report for Bullet, EDGE TOP, U-NII-8, IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 207 (5985.0 MHz)

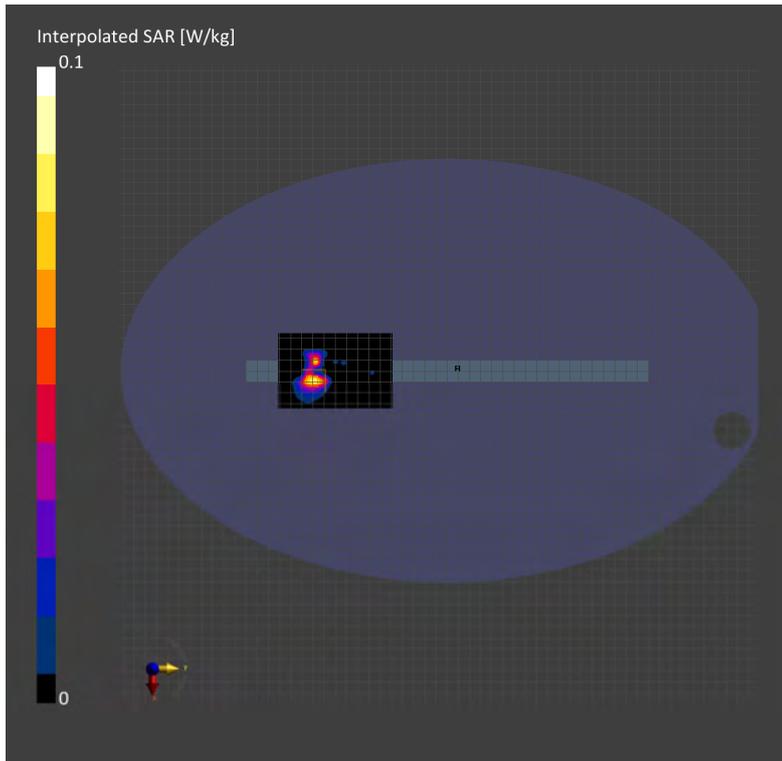
Device Under Test Properties		Dimensions (mm)	IMEI	DUT Type
Model, Manufacturer				
Bullet,		232.0 x 360.0 x 20.0		Tablet

Exposure Conditions							
Phantom Section, TSL	Position, Test Distance (mm)	Band	Group, UID	Frequency (MHz), Channel Number	Conversion Factor	TSL Conductivity (S/m)	TSL Permittivity
Flat, HSL	EDGE TOP, 0.00	U-NII-8	WLAN, 10743-AAC	5985.0, 207	5.45	6.565	33.562

Hardware Setup			
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI	HBBL-600-10000	EX3DV4 - SN7375, 2021-12-20	DAE4 Sn1665, 2021-03-01

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 1.2	
Sensor Surface (mm)	9.0	1.4	
Graded Grid	Yes	Yes	
Grading Ratio	1.5	1.2	
MAIA	N/A	N/A	
Surface Detection	VMS + Ep	VMS + Ep	
Scan Method	Measured	Measured	

Measurement Results			
	Area Scan	Zoom Scan	
Date	2022-01-11, 16:38	2022-01-11, 16:47	
µSAR1g (W/kg)	0.061	0.085	
µSAR10g (W/kg)	0.018	0.024	
Power Drift (dB)	-0.12	-0.17	
Power Scaling	Disabled	Disabled	
Scaling Factor (dB)			
TSL Correction	No correction	No correction	
M2/M1 (%)		55.7	
Dist 3dB Peak (mm)		5.0	



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Report No. : EN/2021/C0024
Measurement Report for Bulleit, EDGE RIGHT, U-NII-5, IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 79 (6345.0 MHz)
Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Bulleit	238.0 x 360.0 x 6.0		Laptop

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	EDGE RIGHT, 0.00	U-NII-5	WLAN, 10743-AAC	6345.0, 79	5.5	5.94	34.488

Hardware Setup

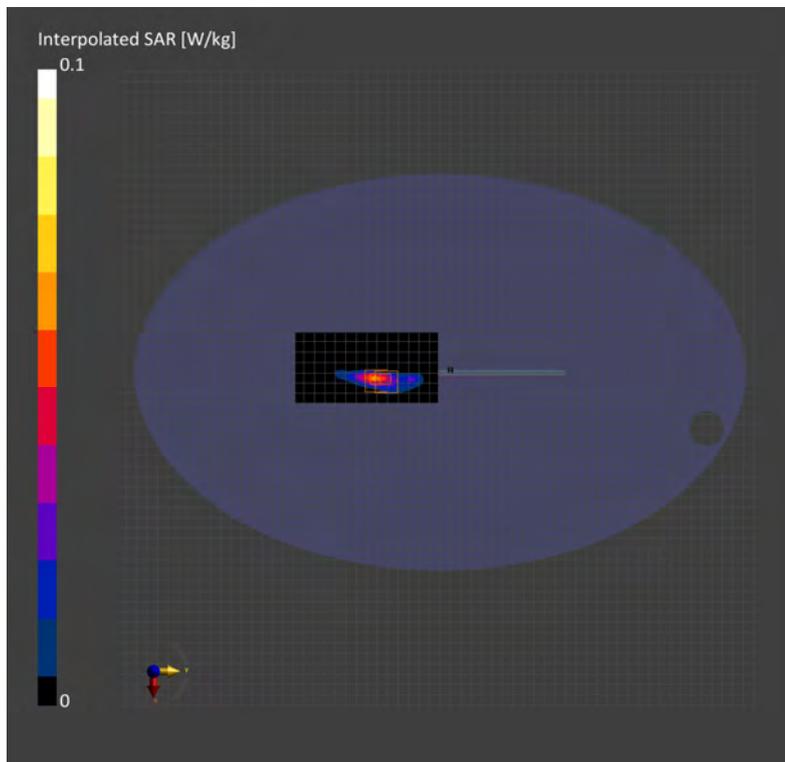
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI	HBBL-600-10000	EX3DV4 - SN7375, 2021-12-20	DAE4 Sn1665, 2021-03-01

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 136.0	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
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAJA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-01-20, 02:25	2022-01-20, 02:36
psSAR1g [W/Kg]	0.056	0.068
psSAR10g [W/Kg]	0.017	0.023
Power Drift [dB]	0.05	0.12
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		62.2
Dist 3dB Peak [mm]		4.8



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Report No. : EN/2021/C0024
Measurement Report for Bulleit, EDGE RIGHT, U-NII-6, IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 111 (6505.0 MHz)
Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Bulleit	238.0 x 360.0 x 6.0		Laptop

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	EDGE RIGHT, 0.00	U-NII-6	WLAN, 10743-AAC	6505.0, 111	5.5	6.126	34.292

Hardware Setup

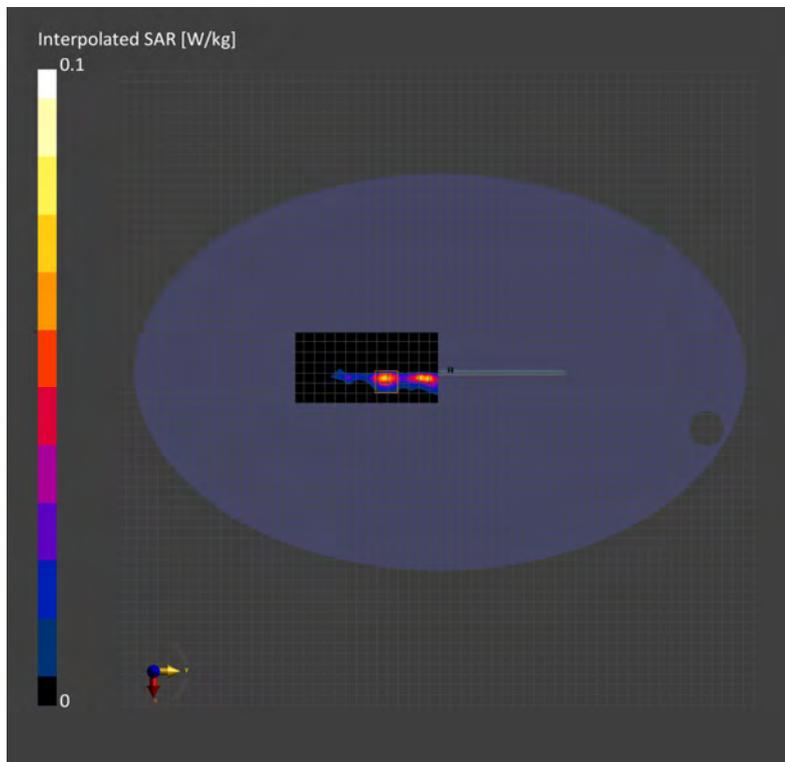
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI	HBBL-600-10000	EX3DV4 - SN7375, 2021-12-20	DAE4 Sn1665, 2021-03-01

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 136.0	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
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAJA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-01-20, 02:57	2022-01-20, 03:08
psSAR1g [W/Kg]	0.048	0.067
psSAR10g [W/Kg]	0.013	0.022
Power Drift [dB]	0.16	-0.15
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		64.1
Dist 30B Peak [mm]		5.6



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Report No. : EN/2021/C0024
Measurement Report for Bulleit, EDGE RIGHT, U-NII-7, IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 143 (6665.0 MHz)
Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Bulleit	238.0 x 360.0 x 6.0		Laptop

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	EDGE RIGHT, 0.00	U-NII-7	WLAN, 10743-AAC	6665.0, 143	5.5	6.307	34.098

Hardware Setup

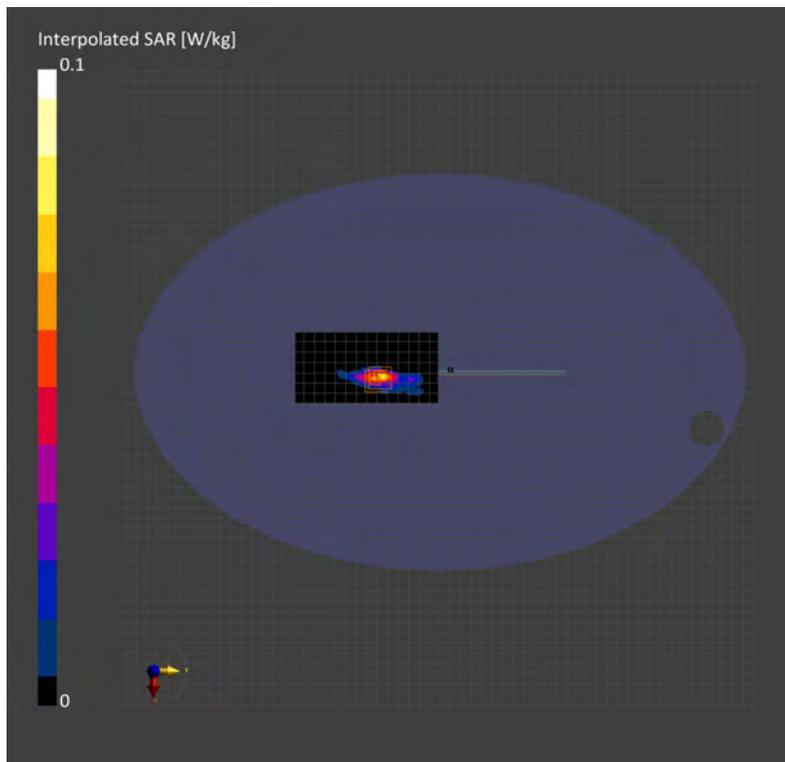
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI	HBBL-600-10000	EX3DV4 - SN7375, 2021-12-20	DAE4 Sn1665, 2021-03-01

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 136.0	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
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAJA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-01-20, 03:29	2022-01-20, 03:40
psSAR1g [W/Kg]	0.056	0.071
psSAR10g [W/Kg]	0.016	0.023
Power Drift [dB]	-0.06	0.17
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		58.6
Dist 3dB Peak [mm]		5.4



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Report No. : EN/2021/C0024
Measurement Report for Bulleit, EDGE RIGHT, U-NII-8, IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 207 (6985.0 MHz)
Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Bulleit	238.0 x 360.0 x 6.0		Laptop

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	EDGE RIGHT, 0.00	U-NII-8	WLAN, 10743-AAC	6985.0, 207	5.45	6.678	33.739

Hardware Setup

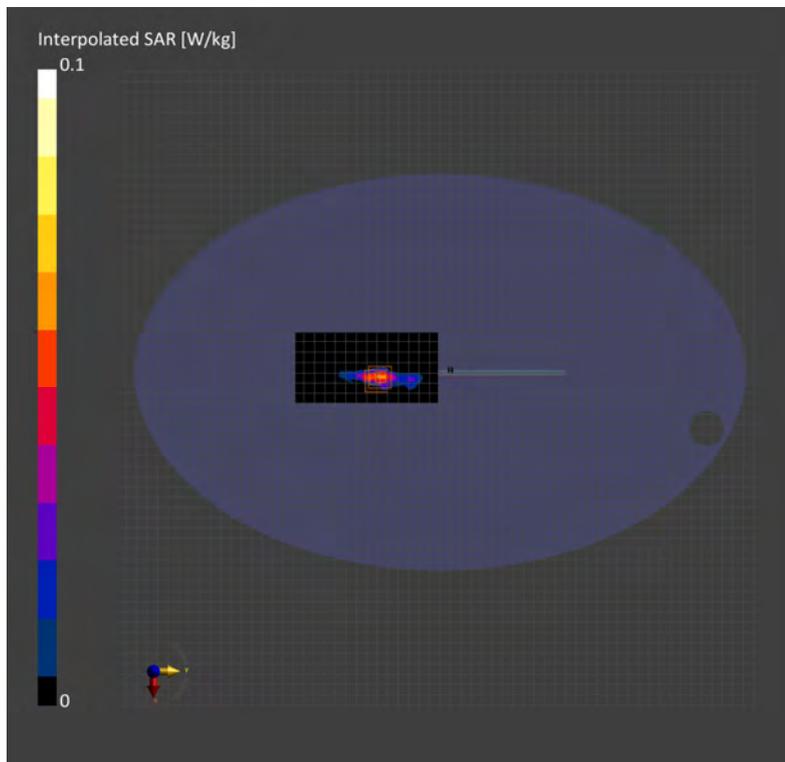
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI	HBBL-600-10000	EX3DV4 - SN7375, 2021-12-20	DAE4 Sn1665, 2021-03-01

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 136.0	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
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAJA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-01-20, 04:01	2022-01-20, 04:12
psSAR1g [W/Kg]	0.046	0.061
psSAR10g [W/Kg]	0.012	0.021
Power Drift [dB]	0.11	-0.16
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		63.5
Dist 3dB Peak [mm]		5.4



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Report No. : EN/2021/C0024
Measurement Report for Bulleit, EDGE LEFT, U-NII-5, IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 79 (6345.0 MHz)
Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Bulleit	238.0 x 360.0 x 6.0		Laptop

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	EDGE LEFT, 0.00	U-NII-5	WLAN, 10743-AAC	6345.0, 79	5.5	5.94	34.488

Hardware Setup

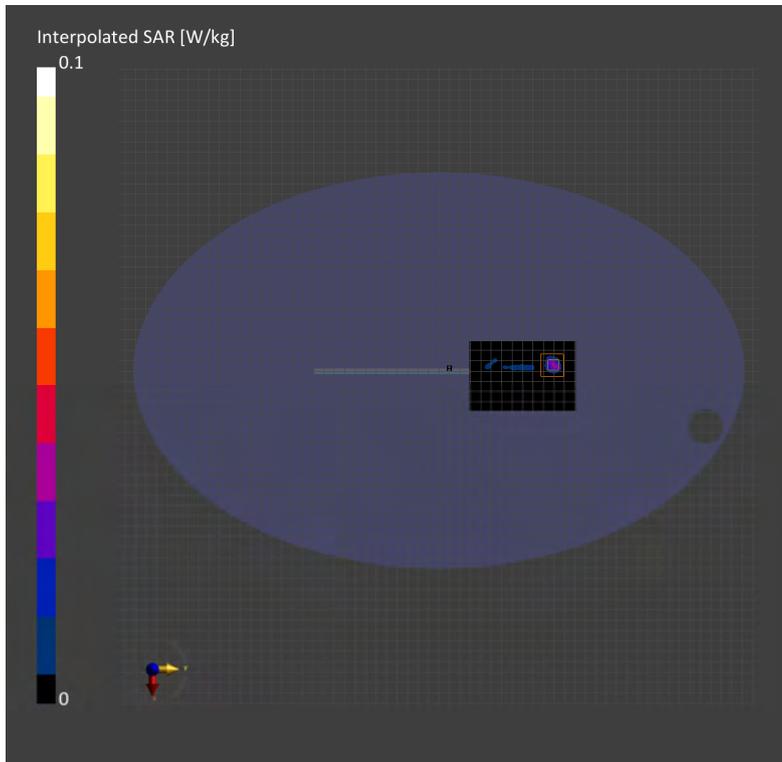
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI	HBBL-600-10000	EX3DV4 - SN7375, 2021-12-20	DAE4 Sn1665, 2021-03-01

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
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAJA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-01-20, 05:15	2022-01-20, 05:26
psSAR1g [W/Kg]	0.025	0.033
psSAR10g [W/Kg]	0.004	0.008
Power Drift [dB]	0.04	-0.15
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		46.0
Dist 3dB Peak [mm]		6.1



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Report No. : EN/2021/C0024
Measurement Report for Bulleit, EDGE LEFT, U-NII-6, IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 111 (6505.0 MHz)
Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Bulleit	238.0 x 360.0 x 6.0		Laptop

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	EDGE LEFT, 0.00	U-NII-6	WLAN, 10743-AAC	6505.0, 111	5.5	6.126	34.292

Hardware Setup

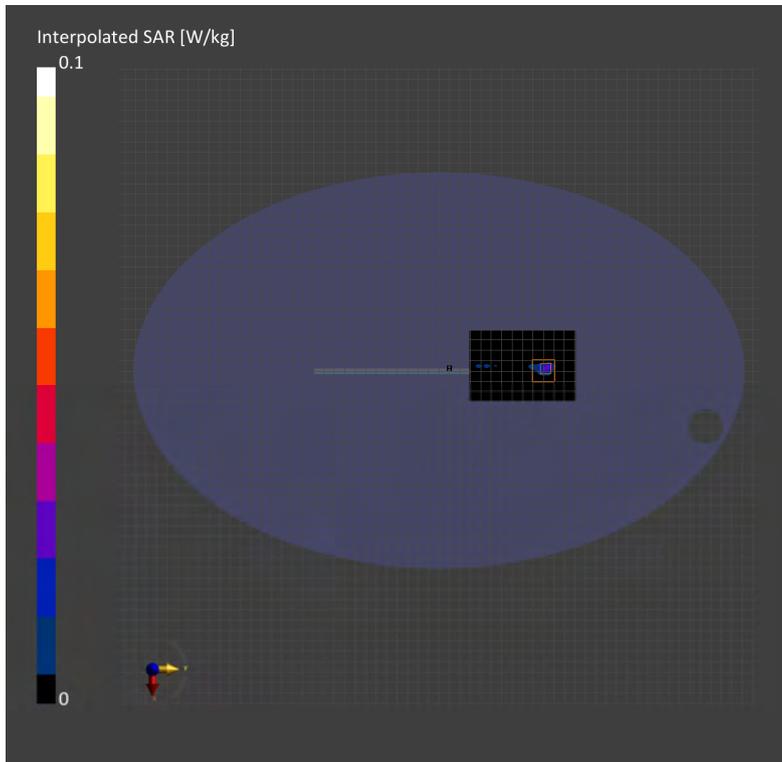
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI	HBBL-600-10000	EX3DV4 - SN7375, 2021-12-20	DAE4 Sn1665, 2021-03-01

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 1.2
Sensor Surface [mm]	3.0	1.4
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.2
MAJA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-01-20, 05:47	2022-01-20, 05:58
psSAR1g [W/Kg]	0.020	0.037
psSAR10g [W/Kg]	0.004	0.010
Power Drift [dB]	0.11	-0.07
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		60.9
Dist 3dB Peak [mm]		4.8



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Report No. : EN/2021/C0024
Measurement Report for Bulleit, EDGE LEFT, U-NII-7, IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 143 (6665.0 MHz)
Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Bulleit	238.0 x 360.0 x 6.0		Laptop

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	EDGE LEFT, 0.00	U-NII-7	WLAN, 10743-AAC	6665.0, 143	5.5	6.307	34.098

Hardware Setup

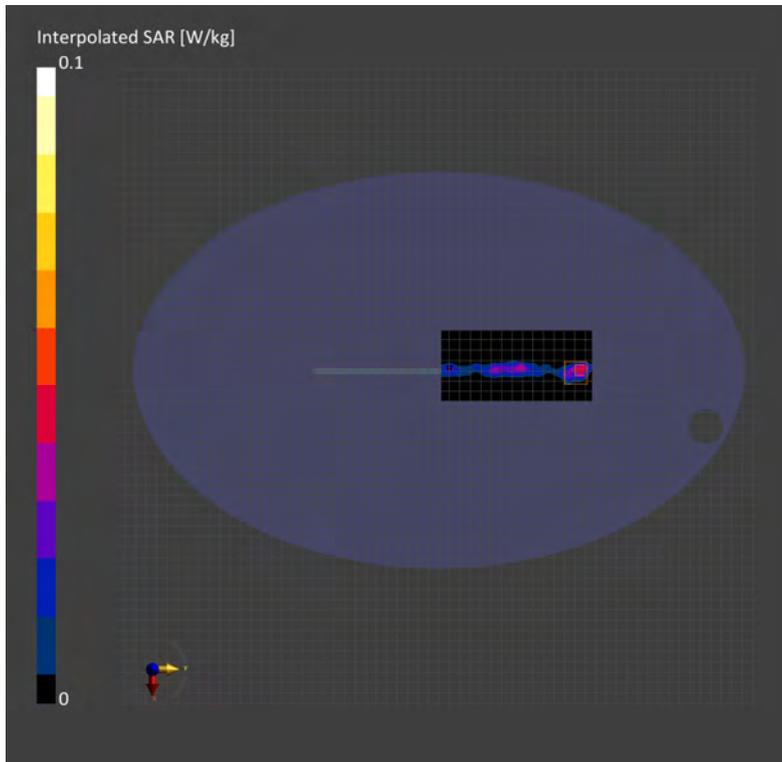
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI	HBBL-600-10000	EX3DV4 - SN7375, 2021-12-20	DAE4 Sn1665, 2021-03-01

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 136.0	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
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAJA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-01-20, 06:09	2022-01-20, 06:20
psSAR1g [W/Kg]	0.035	0.045
psSAR10g [W/Kg]	0.01	0.013
Power Drift [dB]	0.12	0.13
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		55.7
Dist 3dB Peak [mm]		4.8



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Report No. : EN/2021/C0024
Measurement Report for Bulleit, EDGE LEFT, U-NII-8, IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 207 (6985.0 MHz)
Device Under Test Properties

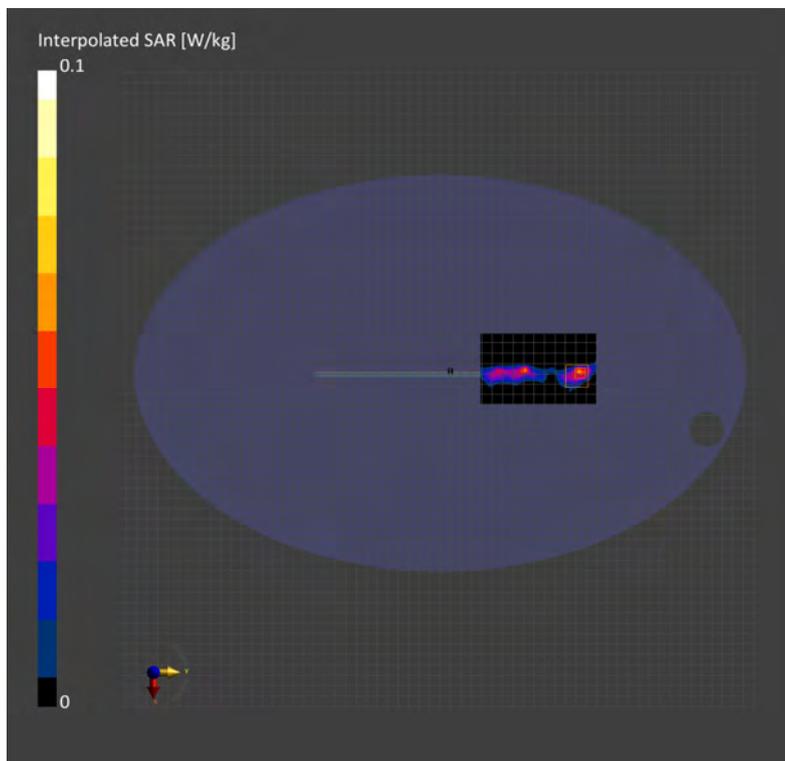
Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Bulleit	238.0 x 360.0 x 6.0		Laptop

Exposure Conditions							
Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	EDGE LEFT, 0.00	U-NII-8	WLAN, 10743-AAC	6985.0, 207	5.45	6.678	33.739

Hardware Setup			
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI	HBBL-600-10000	EX3DV4 - SN7375, 2021-12-20	DAE4 Sn1665, 2021-03-01

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
Graded Grid		Yes	Yes
Grading Ratio		1.5	1.4
MAJA		N/A	N/A
Surface Detection		VMS + 6p	VMS + 6p
Scan Method		Measured	Measured

Measurement Results			
		Area Scan	Zoom Scan
Date		2022-01-20, 06:41	2022-01-20, 06:52
psSAR1g [W/Kg]		0.046	0.055
psSAR10g [W/Kg]		0.012	0.016
Power Drift [dB]		0.15	0.04
Power Scaling		Disabled	Disabled
Scaling Factor [dB]			
TSL Correction		No correction	No correction
M2/M1 [%]			51.8
Dist 3dB Peak [mm]			4.8



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Report No. : EN/2021/C0024
Measurement Report for Bulleit, EDGE RIGHT, U-NII-5, IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 79 (6345.0 MHz)
Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Bulleit	238.0 x 360.0 x 6.0		Laptop

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	EDGE RIGHT, 0.00	U-NII-5	WLAN, 10743-AAC	6345.0, 79	5.5	5.94	34.488

Hardware Setup

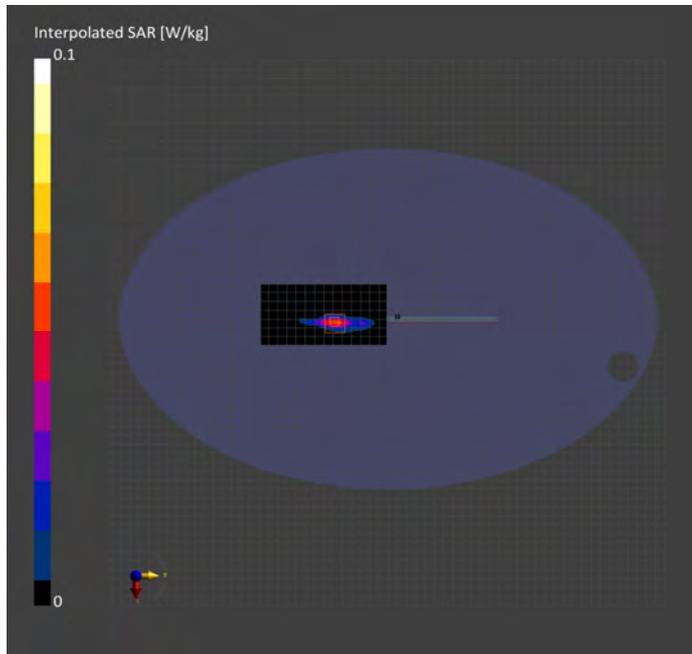
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI	HBBL-600-10000	EX3DV4 - SN7375, 2021-12-20	DAE4 Sn1665, 2021-03-01

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 136.0	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
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-01-20, 07:35	2022-01-20, 07:45
psSAR1g [W/Kg]	0.039	0.050
psSAR10g [W/Kg]	0.011	0.016
Power Drift [dB]	-0.11	-0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		62.5
Dist 3dB Peak [mm]		5.4



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Report No. : EN/2021/C0024
Measurement Report for Bulleit, EDGE RIGHT, U-NII-6, IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 111 (6505.0 MHz)
Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Bulleit	238.0 x 360.0 x 6.0		Laptop

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	EDGE RIGHT, 0.00	U-NII-6	WLAN, 10743-AAC	6505.0, 111	5.5	6.126	34.292

Hardware Setup

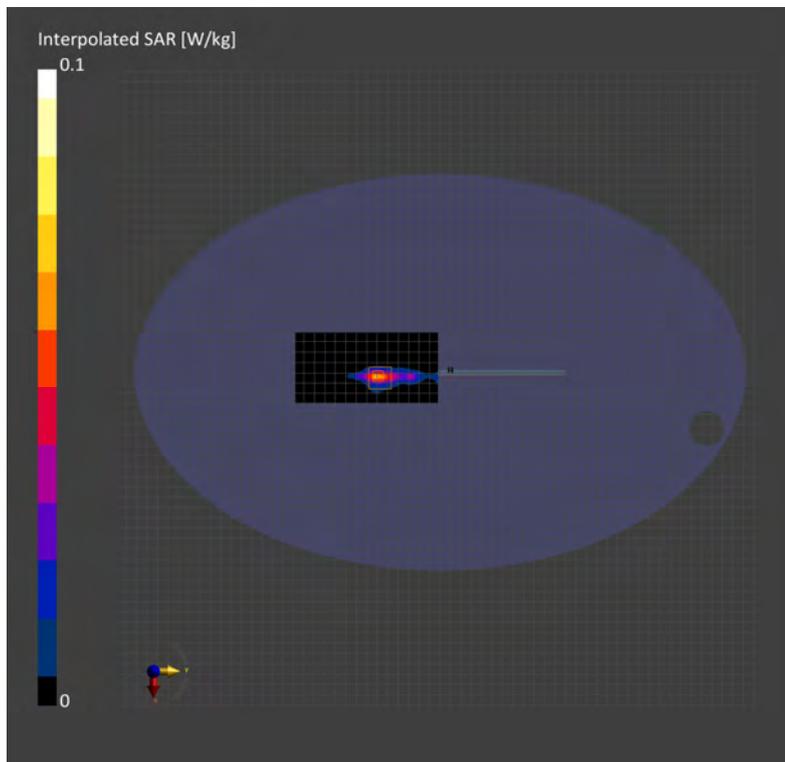
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI	HBBL-600-10000	EX3DV4 - SN7375, 2021-12-20	DAE4 Sn1665, 2021-03-01

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 136.0	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
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAJA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-01-20, 08:07	2022-01-20, 08:17
psSAR1g [W/Kg]	0.046	0.062
psSAR10g [W/Kg]	0.013	0.020
Power Drift [dB]	-0.02	0.04
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		64.5
Dist 3dB Peak [mm]		5.4



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Report No. : EN/2021/C0024
Measurement Report for Bulleit, EDGE RIGHT, U-NII-7, IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 143 (6665.0 MHz)
Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Bulleit	238.0 x 360.0 x 6.0		Laptop

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	EDGE RIGHT, 0.00	U-NII-7	WLAN, 10743-AAC	6665.0, 143	5.5	6.307	34.098

Hardware Setup

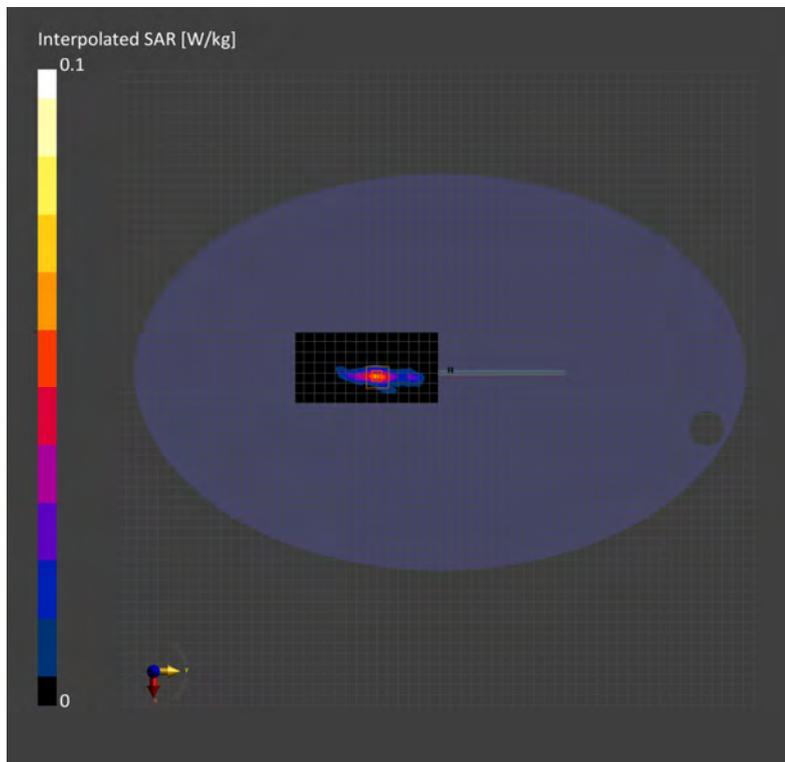
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI	HBBL-600-10000	EX3DV4 - SN7375, 2021-12-20	DAE4 Sn1665, 2021-03-01

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 136.0	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
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAJA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-01-20, 08:38	2022-01-20, 08:48
psSAR1g [W/Kg]	0.044	0.060
psSAR10g [W/Kg]	0.013	0.019
Power Drift [dB]	-0.06	-0.15
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		55.2
Dist 30B Peak [mm]		5.4



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Report No. : EN/2021/C0024
Measurement Report for Bulleit, EDGE RIGHT, U-NII-8, IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 207 (6985.0 MHz)
Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Bulleit	238.0 x 360.0 x 6.0		Laptop

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	EDGE RIGHT, 0.00	U-NII-8	WLAN, 10743-AAC	6985.0, 207	5.45	6.678	33.739

Hardware Setup

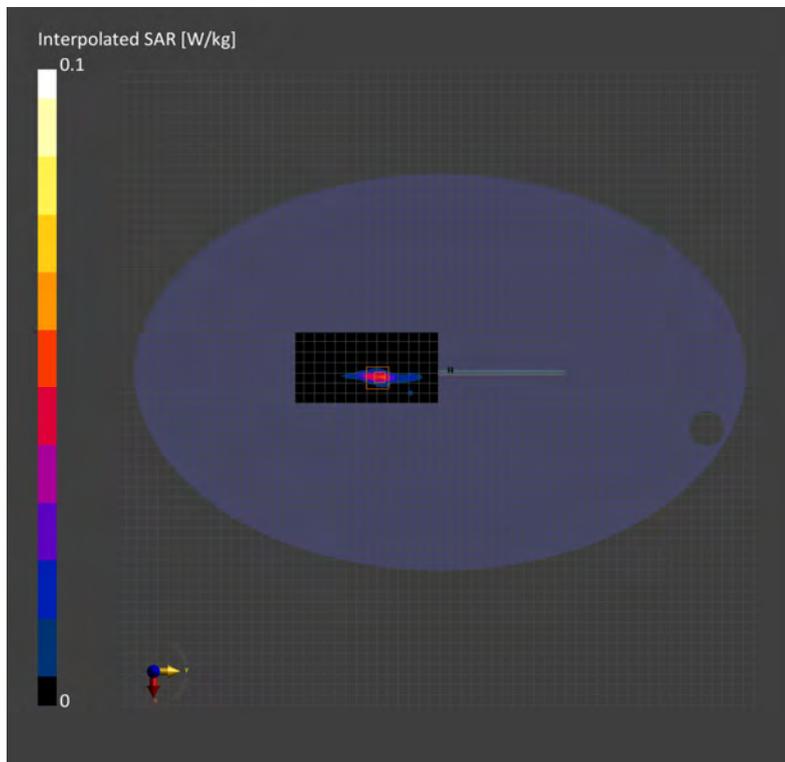
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI	HBBL-600-10000	EX3DV4 - SN7375, 2021-12-20	DAE4 Sn1665, 2021-03-01

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 136.0	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
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAJA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-01-20, 09:09	2022-01-20, 09:19
psSAR1g [W/Kg]	0.039	0.048
psSAR10g [W/Kg]	0.010	0.015
Power Drift [dB]	-0.13	-0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		63.3
Dist 3dB Peak [mm]		5.4



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Report No. : EN/2021/C0024
Measurement Report for Bulleit, EDGE LEFT, U-NII-5, IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 79 (6345.0 MHz)
Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Bulleit	238.0 x 360.0 x 6.0		Laptop

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	EDGE LEFT, 0.00	U-NII-5	WLAN, 10743-AAC	6345.0, 79	5.5	5.94	34.488

Hardware Setup

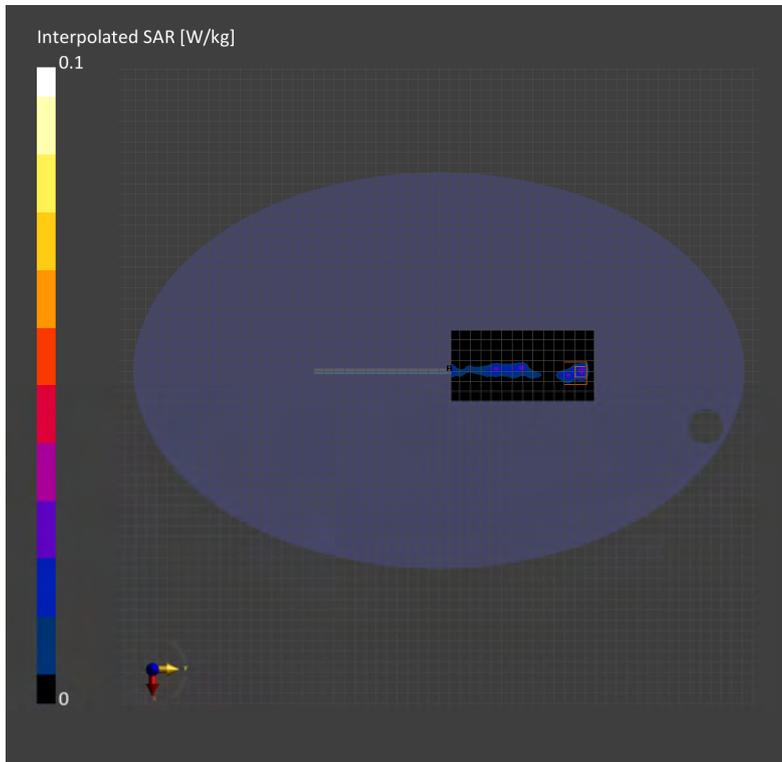
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI	HBBL-600-10000	EX3DV4 - SN7375, 2021-12-20	DAE4 Sn1665, 2021-03-01

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 136.0	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
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAJA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-01-20, 10:11	2022-01-20, 10:21
psSAR1g [W/Kg]	0.020	0.026
psSAR10g [W/Kg]	0.006	0.008
Power Drift [dB]	-0.13	-0.05
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		54.0
Dist 3dB Peak [mm]		5.4



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Report No. : EN/2021/C0024
Measurement Report for Bulleit, EDGE LEFT, U-NII-6, IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 111 (6505.0 MHz)
Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Bulleit	238.0 x 360.0 x 6.0		Laptop

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	EDGE LEFT, 0.00	U-NII-6	WLAN, 10743-AAC	6505.0, 111	5.5	6.126	34.292

Hardware Setup

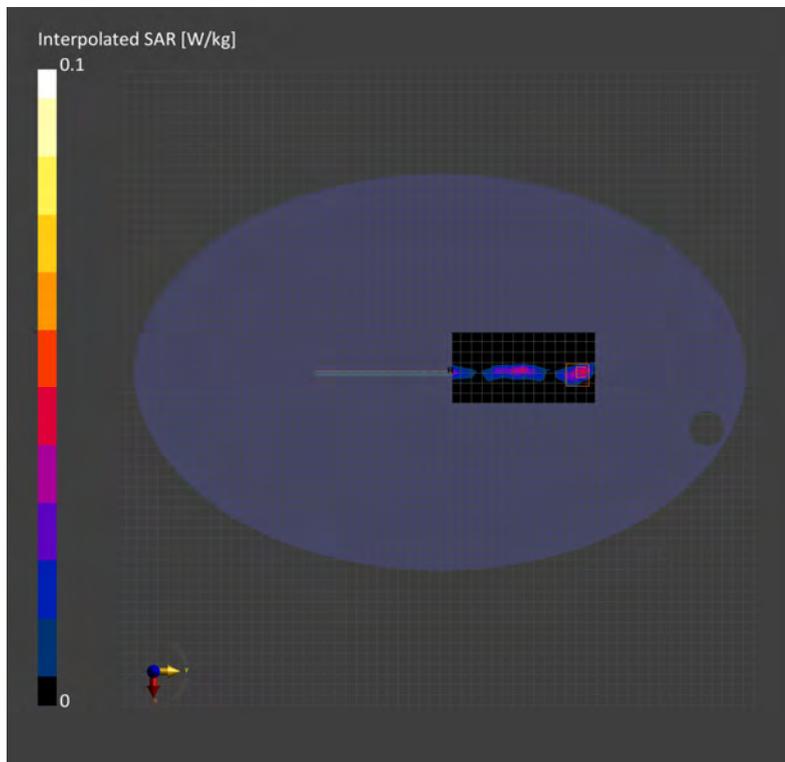
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI	HBBL-600-10000	EX3DV4 - SN7375, 2021-12-20	DAE4 Sn1665, 2021-03-01

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 136.0	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
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAJA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-01-20, 10:42	2022-01-20, 10:52
psSAR1g [W/Kg]	0.033	0.046
psSAR10g [W/Kg]	0.009	0.013
Power Drift [dB]	-0.15	0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		52.4
Dist 3dB Peak [mm]		5.4



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Report No. : EN/2021/C0024
Measurement Report for Bulleit, EDGE LEFT, U-NII-7, IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 143 (6665.0 MHz)
Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Bulleit	238.0 x 360.0 x 6.0		Laptop

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	EDGE LEFT, 0.00	U-NII-7	WLAN, 10743-AAC	6665.0, 143	5.5	6.307	34.098

Hardware Setup

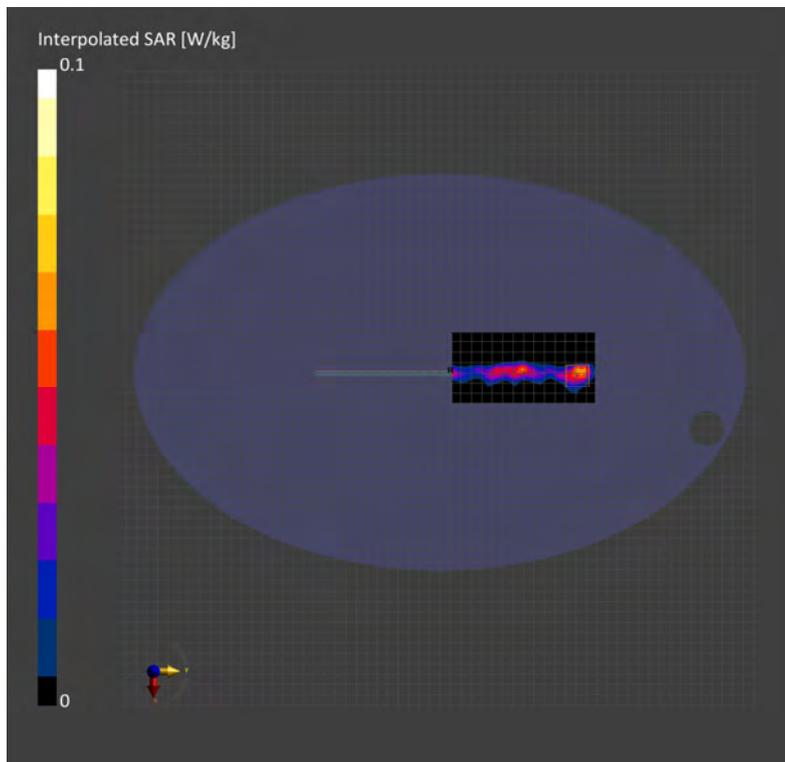
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI	HBBL-600-10000	EX3DV4 - SN7375, 2021-12-20	DAE4 Sn1665, 2021-03-01

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 136.0	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
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAJA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-01-20, 11:13	2022-01-20, 11:23
psSAR1g [W/Kg]	0.051	0.066
psSAR10g [W/Kg]	0.016	0.022
Power Drift [dB]	-0.09	-0.17
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		54.0
Dist 30B Peak [mm]		5.4



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Report No. : EN/2021/C0024
Measurement Report for Bulleit, EDGE LEFT, U-NII-8, IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 207 (6985.0 MHz)
Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Bulleit	238.0 x 360.0 x 6.0		Laptop

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	EDGE LEFT, 0.00	U-NII-8	WLAN, 10743-AAC	6985.0, 207	6.45	6.678	33.739

Hardware Setup

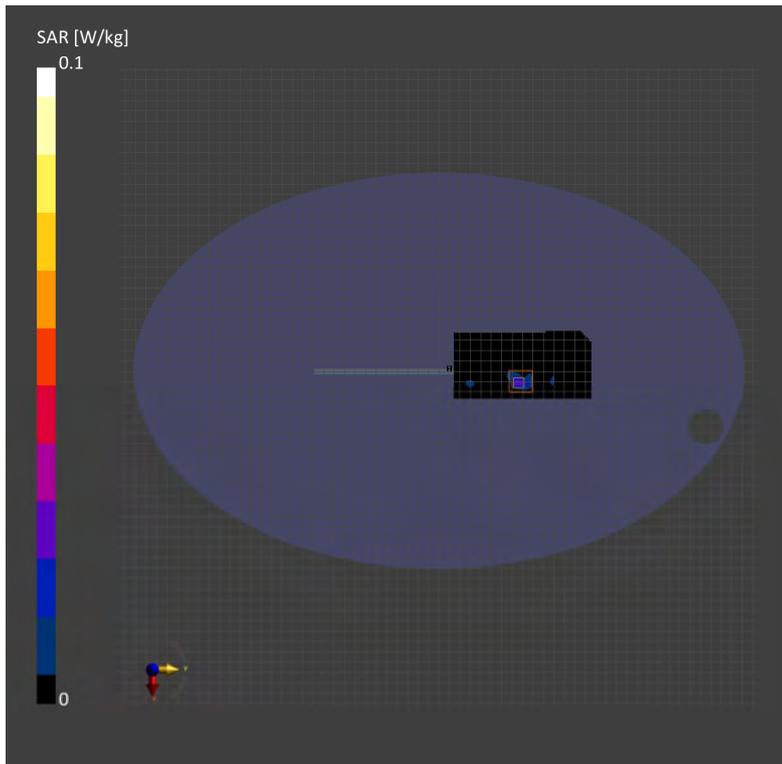
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELU	HBBL-600-10000	EX3DV4 - SN7375, 2021-12-20	DAE4 Sn1665, 2021-03-01

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	68.0 x 136.0	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
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAJA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-01-20, 11:44	2022-01-20, 11:54
psSAR1g [W/Kg]	0.041	0.048
psSAR10g [W/Kg]	0.012	0.015
Power Drift [dB]	0.18	0.02
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		54.9
Dist 3dB Peak [mm]		4.8



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Report No. :EN/2021/C0024
Measurement Report for Bullet, EDGE TOP, U-NII-S, IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 47 (6185.0 MHz)
Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Bullet	232.0 x 360.0 x 20.0		Tablet

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
SG	EDGE TOP, 2.00	U-NII-S	WLAN, 10743-AAC	6185.0, 47	1.0

Hardware Setup

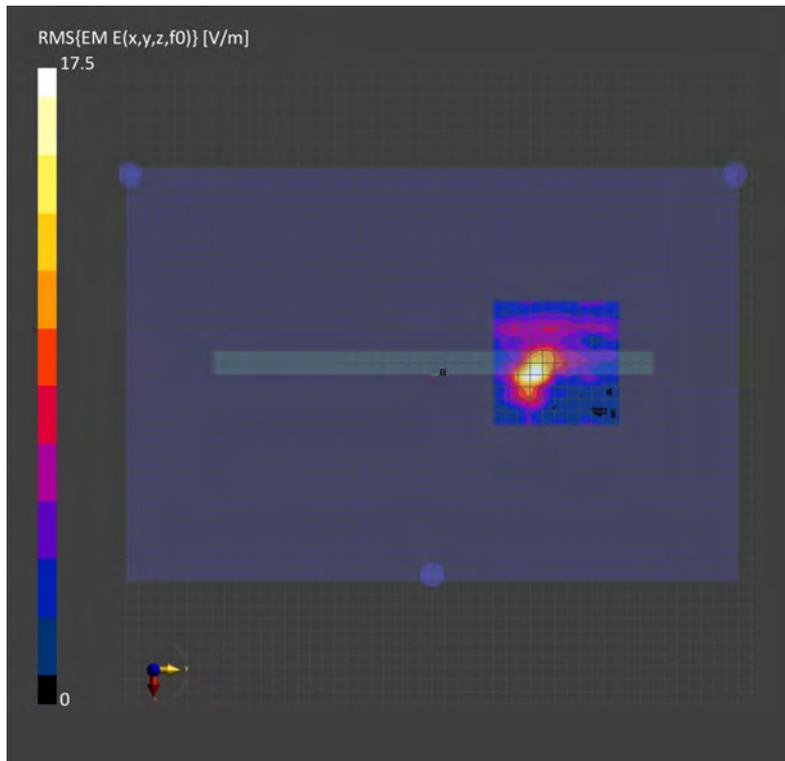
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave	Air	ELmmWV4 - SN8579_F1-55GHz, 2021-10-06	DAE4 Snt665, 2021-03-01

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
MMA	N/A

Measurement Results

Scan Type	5G Scan
Date	2022-01-13, 02:25
Avg. Area [cm ²]	4.00
psP0m [W/m ²]	0.326
psP0tot [W/m ²]	0.385
psP0mod+ [W/m ²]	0.528
E _{max} [V/m]	17.5
Power Dn# [dB]	0.04



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Report No. :EN/2021/C0024
Measurement Report for Bullet, EDGE TOP, U-NII-5, IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 79 (6345.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	EUT Type
Bullet	232.0 x 360.0 x 20.0		Tablet

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5G	EDGE TOP, 2.00	U-NII-5	WLAN, 10743-AAC	6345.0, 79	1.0

Hardware Setup

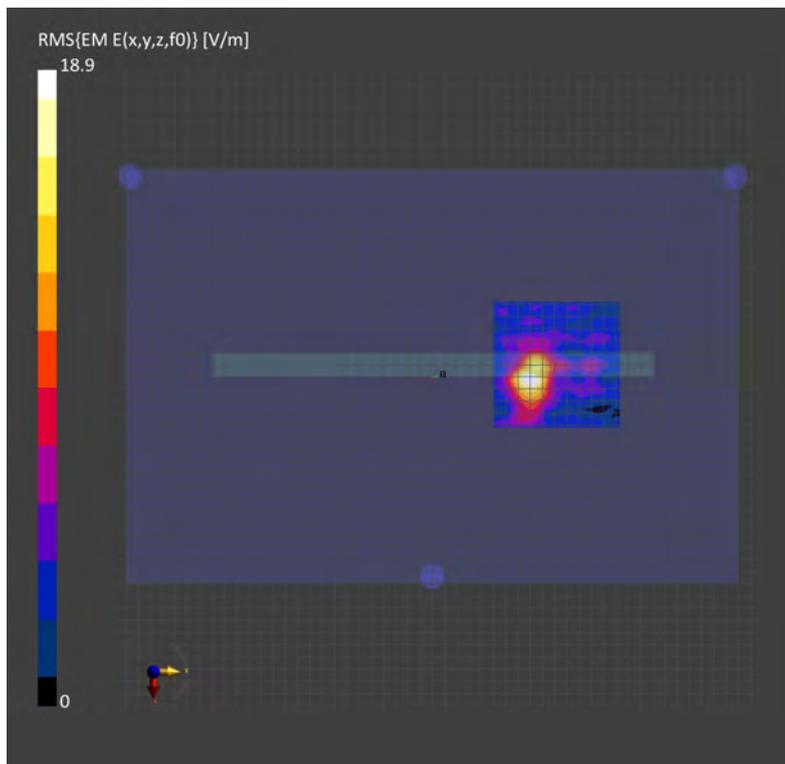
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave	Air	ELImmWV4 - SN8579, P1-55GHz, 2021-10-06	DAE4 Sn1665, 2021-03-01

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
MAJA	N/A

Measurement Results

Scan Type	5G Scan
Date	2022-01-13, 04:34
Avg. Area [cm ²]	4.00
psPD ₀₊ [W/m ²]	0.332
psPD ₀₊ * [W/m ²]	0.373
psPD _{mod+} [W/m ²]	0.487
E _{max} [V/m]	18.9
Power Drift [dB]	0.16



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Report No. : EN/2021/C0024
Measurement Report for Bulletin: EDGE TOP, U-NII-6, IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 111 (6505.0 MHz)
Device Under Test Properties

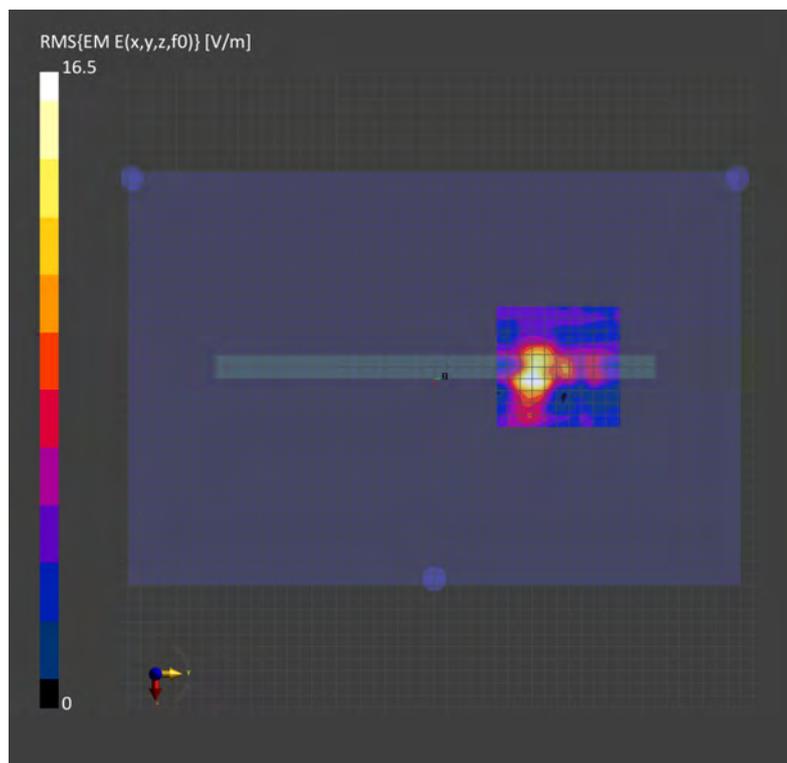
Model, Manufacturer	Dimensions [mm]	IMEI	EUT Type
Bulletin:	232.0 x 360.0 x 20.0		Tablet

Exposure Conditions				
Phantom Section	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number
5G	EDGE TOP, 2.00	U-NII-6	WLAN, 10743-AAC	6505.0, 111
				Conversion Factor
				1.0

Hardware Setup			
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave	Air	ELImmWV4 - SN8579, P1-55GHz, 2021-10-06	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
MAJA	N/A

Measurement Results	
Scan Type	5G Scan
Date	2022-01-13, 06:46
Avg. Area [cm ²]	4.00
psPD _{0%} [W/m ²]	0.323
psPD _{0.01%} [W/m ²]	0.364
psPD _{0.05%} [W/m ²]	0.445
E _{max} [V/m]	16.5
Power Drift [dB]	-0.08



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Report No. : EN/2021/C0024
Measurement Report for Bulletin: EDGE TOP, U-NII-7, IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 143 (6665.0 MHz)
Device Under Test Properties

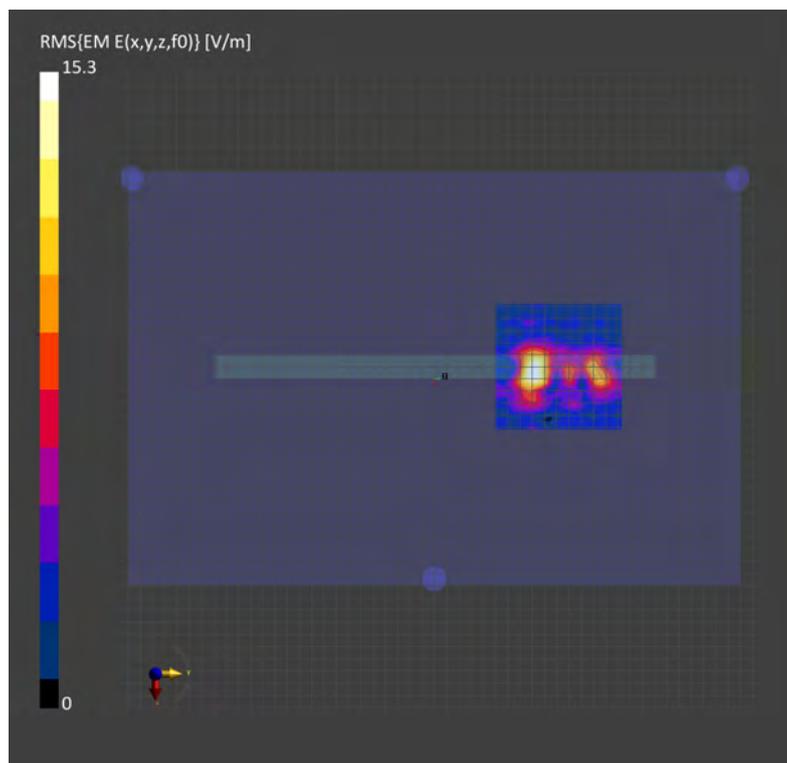
Model, Manufacturer	Dimensions [mm]	IMEI	EUT Type
Bullet:	232.0 x 360.0 x 20.0		Tablet

Exposure Conditions					
Phantom Section	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5G	EDGE TOP, 2.00	U-NII-7	WLAN, 10743-AAC	6665.0, 143	1.0

Hardware Setup			
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave	Air	ELImmWV4 - SN8579, P1-55GHz, 2021-10-06	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
MAJA	N/A

Measurement Results	
Scan Type	5G Scan
Date	2022-01-13, 09:56
Avg. Area [cm ²]	4.00
psPD _{1m} [W/m ²]	0.296
psPD _{0.1m} [W/m ²]	0.319
psPD _{mod} [W/m ²]	0.382
E _{max} [V/m]	15.4
Power Drift [dB]	-0.05



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Report No. : EN/2021/C0024
Measurement Report for Bulletin: EDGE TOP, U-NII-B, IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 207 (6985.0 MHz)
Device Under Test Properties

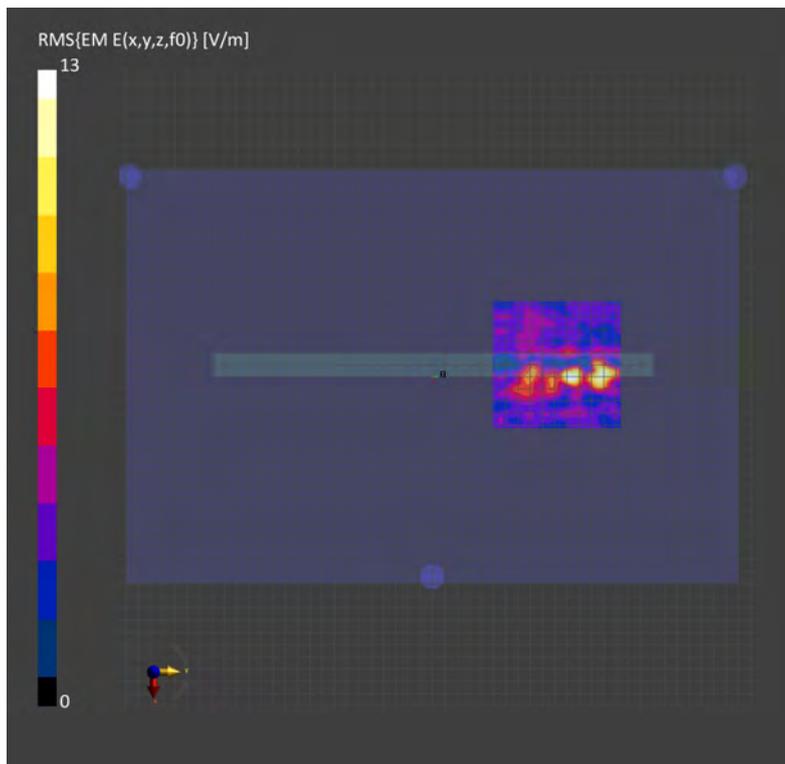
Model, Manufacturer	Dimensions [mm]	IMEI	EUT Type
Bullet:	232.0 x 360.0 x 20.0		Tablet

Exposure Conditions					
Phantom Section	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5G	EDGE TOP, 2.00	U-NII-B	WLAN, 10743-AAC	6985.0, 207	1.0

Hardware Setup			
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave	Air	ELImmWV4 - SN8579, P1-55GHz, 2021-10-06	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
MAJA	N/A

Measurement Results	
Scan Type	5G Scan
Date	2022-01-13, 11:05
Avg. Area [cm ²]	4.00
psPD _{0%} [W/m ²]	0.114
psPD _{0.01%} [W/m ²]	0.144
psPD _{0.001%} [W/m ²]	0.225
E _{max} [W/m ²]	13.0
Power Drift [dB]	0.13



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Report No. :EN/2021/C0024
Measurement Report for Bullet, EDGE TOP, U-NII-S, IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 15 (6025.0 MHz)
Device Under Test Properties

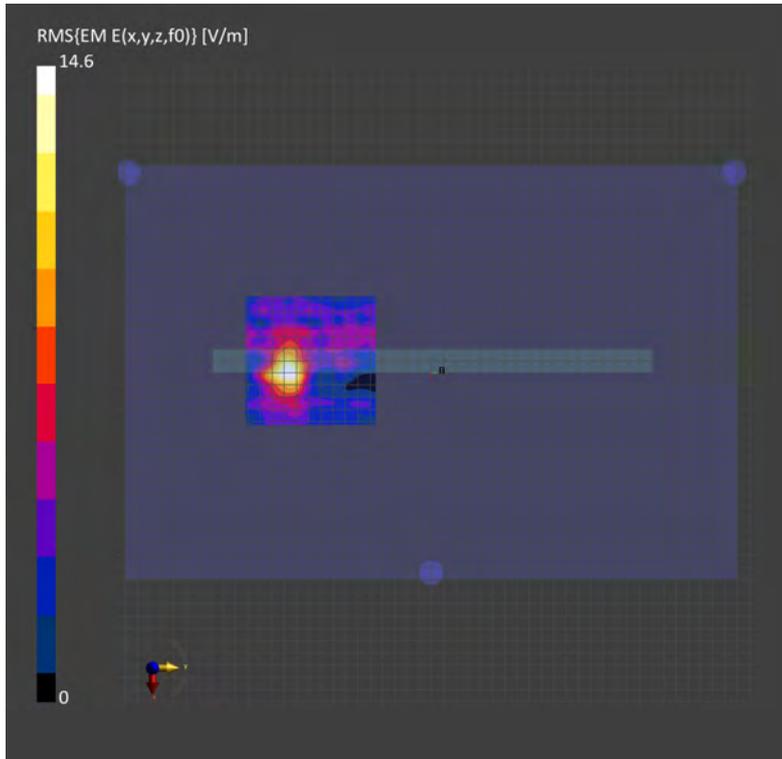
Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Bullet	232.0 x 360.0 x 20.0		Tablet

Exposure Conditions					
Phantom Section	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
SG	EDGE TOP, 2.00	U-NII-S	WLAN, 10749-AAC	6025.0, 15	1.0

Hardware Setup			
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave	Air	ELmmWV4 - SN6579, F1-55GHz, 2021-10-06	DAE4 Snt665, 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
MMA	N/A

Measurement Results	
Scan Type	5G Scan
Date	2022-01-13, 13:37
Avg. Area [cm ²]	4.00
psP0m [W/m ²]	0.270
psP0tot [W/m ²]	0.321
psP0mod+ [W/m ²]	0.404
E _{max} [V/m]	14.6
Power Dn# [dB]	0.13



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Report No. : EN/2021/C0024
Measurement Report for Bulletin, EDGE TOP, U-NII-5, IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 79 (6345.0 MHz)
Device Under Test Properties

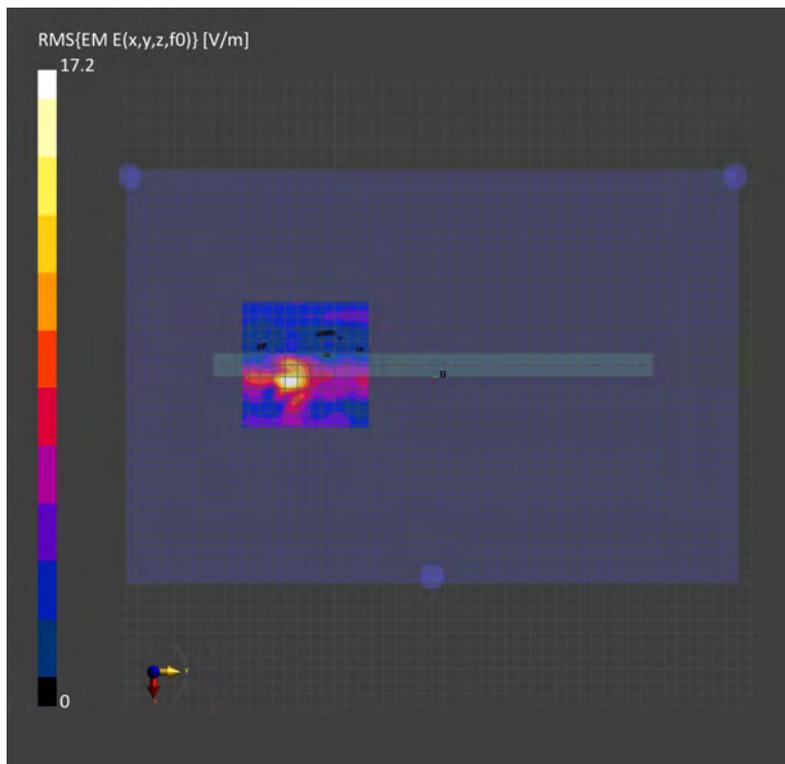
Model, Manufacturer	Dimensions [mm]	IMEI	EUT Type
Bullet:	232.0 x 360.0 x 20.0		Tablet

Exposure Conditions					
Phantom Section	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5G	EDGE TOP, 2.00	U-NII-5	WLAN, 10743-AAC	6345.0, 79	1.0

Hardware Setup			
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave	Air	ELImmWV4 - SN8579, P1-55GHz, 2021-10-06	DAE4-5n1665, 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
MAJA	N/A

Measurement Results	
Scan Type	5G Scan
Date	2022-01-13, 15:42
Avg. Area [cm ²]	4.00
psPD _{1m} [W/m ²]	0.170
psPD _{0.1m} [W/m ²]	0.190
psPD _{mode} [W/m ²]	0.348
E _{1m} [V/m]	17.2
Power Drift [dB]	-0.15



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Report No. : EN/2021/C0024
Measurement Report for Bulletin: EDGE TOP, U-NII-6, IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 111 (6505.0 MHz)
Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	EUT Type
Bullet:	232.0 x 360.0 x 20.0		Tablet

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5G	EDGE TOP, 2.00	U-NII-6	WLAN, 10743-AAC	6505.0, 111	1.0

Hardware Setup

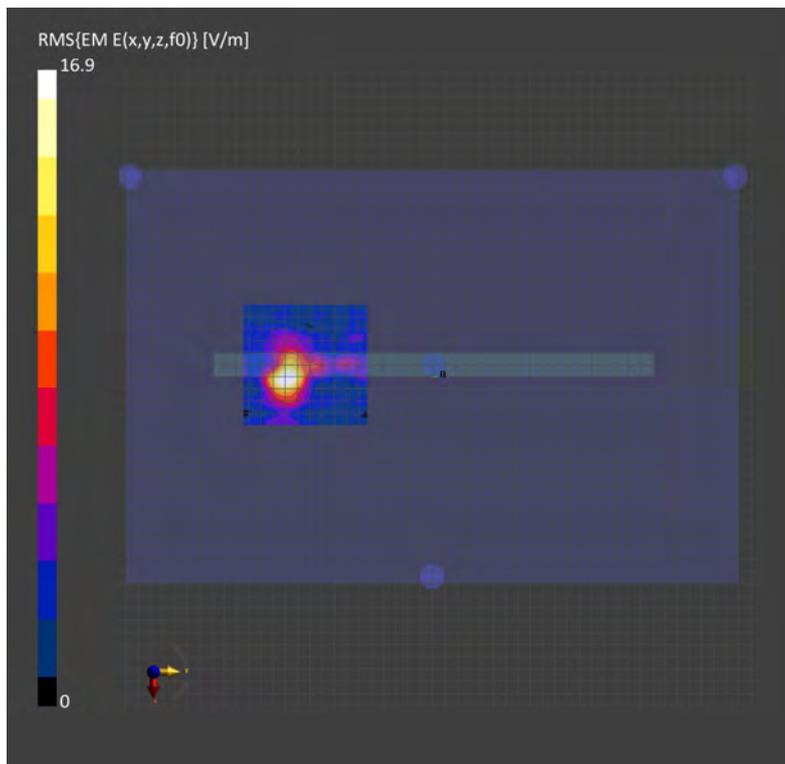
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave	Air	ELImmWV4 - SN8579, P1-55GHz, 2021-10-06	DAE4 Sn1665, 2021-03-01

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
MAJA	N/A

Measurement Results

Scan Type	5G Scan
Date	2022-01-13, 17:56
Avg. Area [cm ²]	4.00
psPD _{01w} [W/m ²]	0.379
psPD _{02w} [W/m ²]	0.423
psPD _{03w} [W/m ²]	0.472
E _{max} [V/m]	16.9
Power Drift [dB]	-0.03



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Report No. :EN/2021/C0024
Measurement Report for Bulletin, EDGE TOP, U-NII-7, IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 143 (6665.0 MHz)
Device Under Test Properties

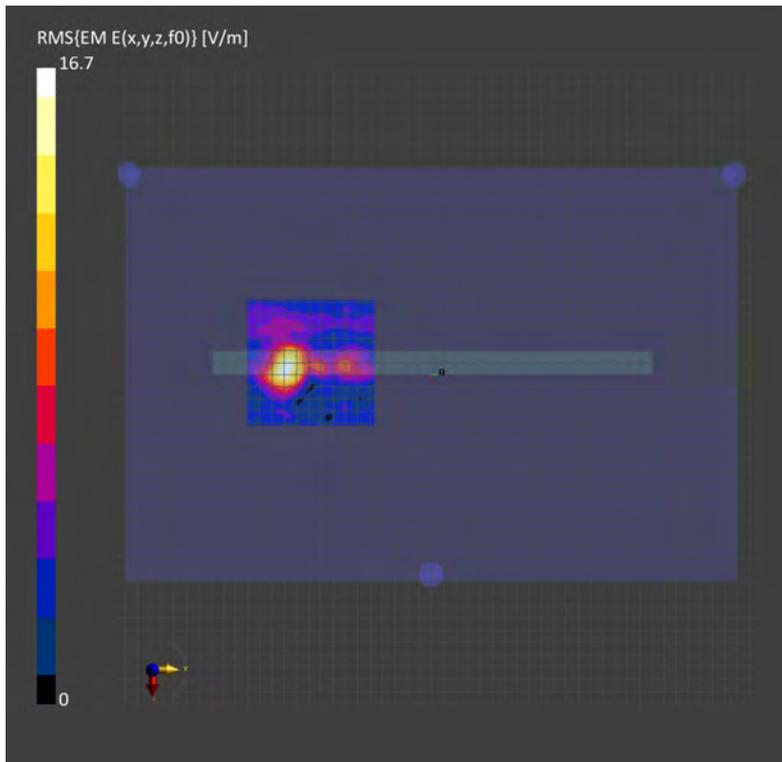
Model, Manufacturer	Dimensions [mm]	IMEI	EUT Type
Bullet:	232.0 x 360.0 x 20.0		Tablet

Exposure Conditions					
Phantom Section	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5G	EDGE TOP, 2.00	U-NII-7	WLAN, 10743-AAC	6665.0, 143	1.0

Hardware Setup			
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave	Air	ELImmWV4 - SN8579, P1-55GHz, 2021-10-06	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
MAJA	N/A

Measurement Results	
Scan Type	5G Scan
Date	2022-01-13, 19:03
Avg. Area [cm ²]	4.00
psPDhw [W/m ²]	0.302
psPDhw+ [W/m ²]	0.319
psPDmod+ [W/m ²]	0.405
E _{max} [V/m]	16.7
Power Drift [dB]	0.02



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Report No. : EN/2021/C0024
Measurement Report for Bulletin: EDGE TOP, U-NII-B, IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 207 (6985.0 MHz)
Device Under Test Properties

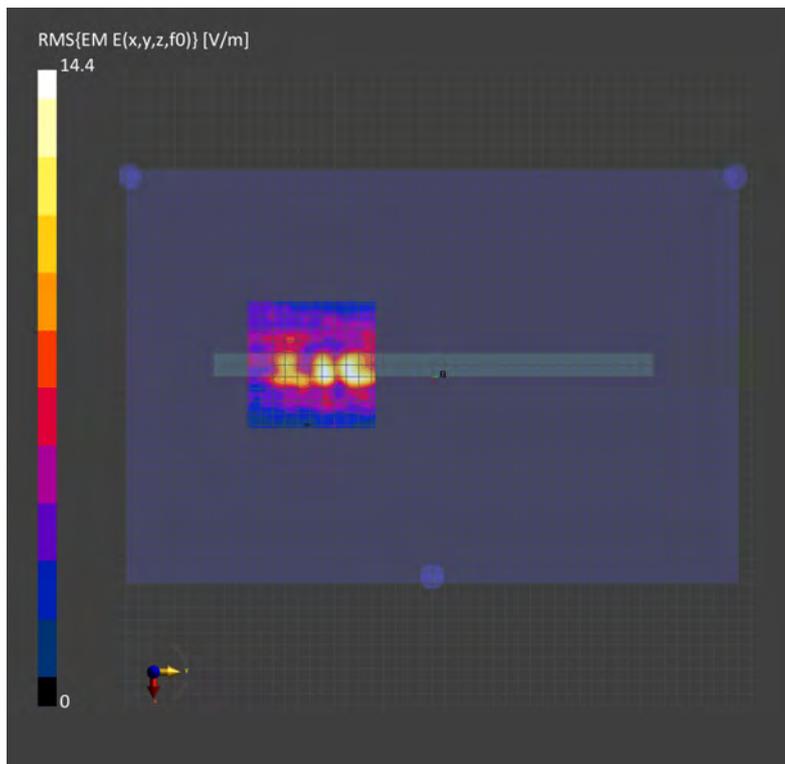
Model, Manufacturer	Dimensions [mm]	IMEI	EUT Type
Bullet:	232.0 x 360.0 x 20.0		Tablet

Exposure Conditions					
Phantom Section	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5G	EDGE TOP, 2.00	U-NII-B	WLAN, 10743-AAC	6985.0, 207	1.0

Hardware Setup			
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave	Air	ELImmWV4 - SN8579, F1-55GHz, 2021-10-06	DAE4 Sn11665, 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
MAJA	N/A

Measurement Results	
Scan Type	5G Scan
Date	2022-01-13, 22:12
Avg. Area [cm ²]	4.00
psPD _{hr} [W/m ²]	0.271
psPD _{tr} [W/m ²]	0.298
psPD _{modr} [W/m ²]	0.385
E _{iso} [V/m]	14.4
Power Drift [dB]	-0.17



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Report No. : EN/2021/C0024
Measurement Report for Bullet, EDGE TOP, U-NII-5, IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 47 (6185.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Bullet,	232.0 x 360.0 x 20.0		Tablet

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Band	Group, ULD	Frequency [MHz], Channel Number	Conversion Factor
SG	EDGE TOP, 2.00	U-NII-5	WLAN, 10743-AAC	6185.0, 47	1.0

Hardware Setup

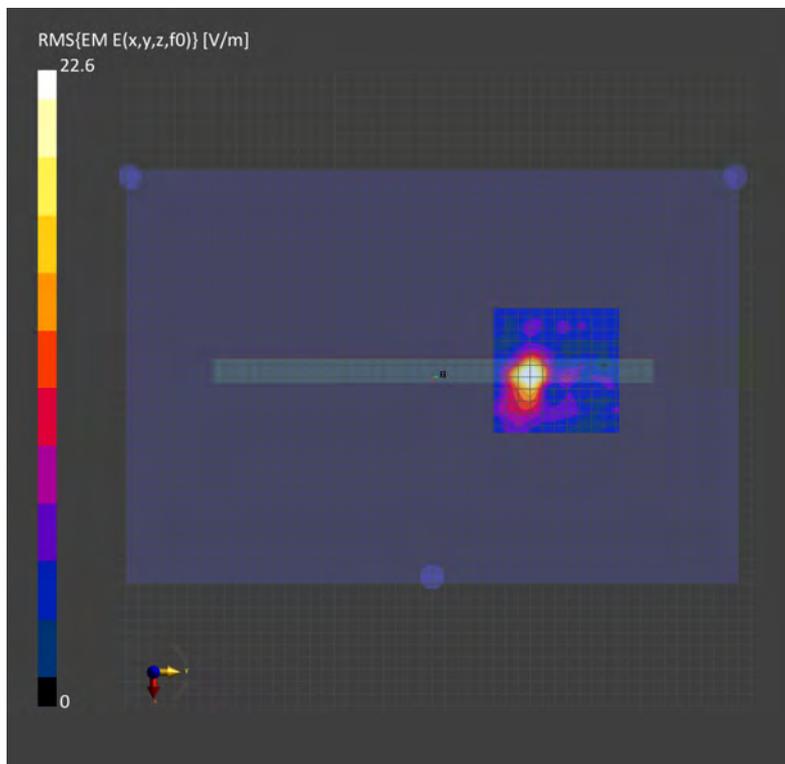
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave	Air -	EUMmWV4 - SN9579, F1-55GHz, 2021-10-06	DAE4 Sn1665, 2021-03-01

Scans Setup

Scan Type	SG Scan
Grid Extents [mm]	100.0 x 100.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0
MAIA	N/A

Measurement Results

Scan Type	SG Scan
Date	2022-01-12, 04:32
Avg Area [cm ²]	4.00
psPDm+ [W/m ²]	0.453
psPDm+ [W/m ²]	0.552
psPDm+ [W/m ²]	0.836
E _{max} [V/m]	22.6
Power DnB [dB]	-9.14



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Report No. : EN/2021/C0024
Measurement Report for Bullet, EDGE TOP, U-NII-5, IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 79 (6345.0 MHz)

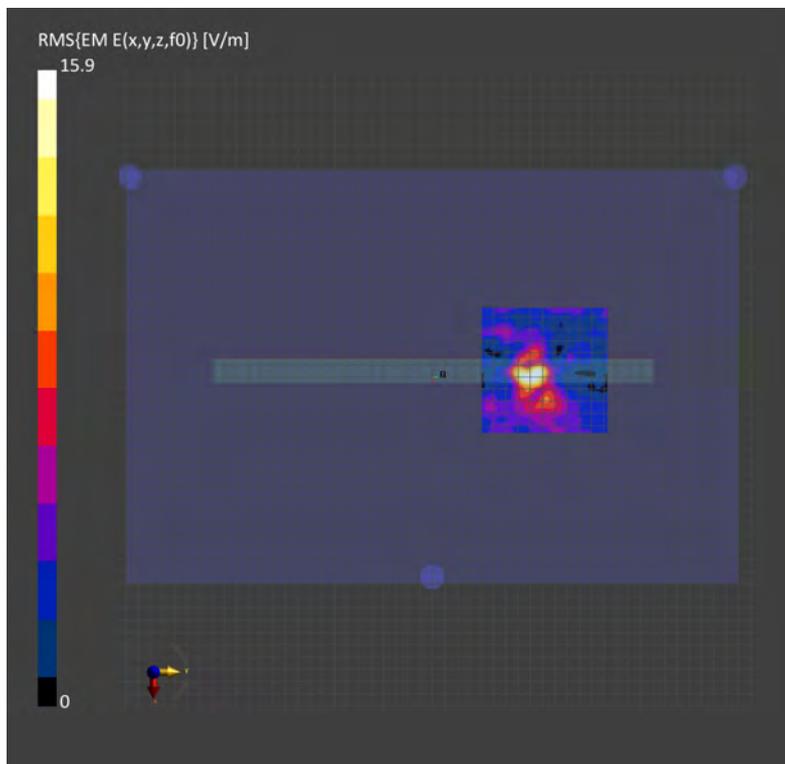
Device Under Test Properties			
Model, Manufacturer	Dimensions (mm)	IMEI	DUT Type
Bullet,	232.0 x 360.0 x 20.0		Tablet

Exposure Conditions					
Phantom Section	Position, Test Distance (mm)	Band	Group, ULD	Frequency (MHz), Channel Number	Conversion Factor
SG	EDGE TOP, 2.00	U-NII-5	WLAN, 10743-AAC	6345.0, 79	1.0

Hardware Setup			
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave	Air -	EUMmWV4 - SN9679, F1-55GHz, 2021-10-06	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
MNA	N/A

Measurement Results	
Scan Type	5G Scan
Date	2022-01-12, 07:39
Avg Area (cm ²)	4.00
psPDm+ (W/m ²)	0.086
psPDm+ (W/m ²)	0.118
psPDm+ (W/m ²)	0.292
E _{max} (V/m)	15.9
Power Dm (dB)	-9.18



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Report No. : EN/2021/C0024
Measurement Report for Bullet, EDGE TOP, U-NII-6, IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 111 (6505.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions (mm)	IMEI	DUT Type
Bullet,	232.0 x 360.0 x 20.0		Tablet

Exposure Conditions

Phantom Section	Position, Test Distance (mm)	Band	Group, UID	Frequency (MHz), Channel Number	Conversion Factor
SG	EDGE TOP, 2.00	U-NII-6	WLAN, 10743-AAC	6505.0, 111	1.0

Hardware Setup

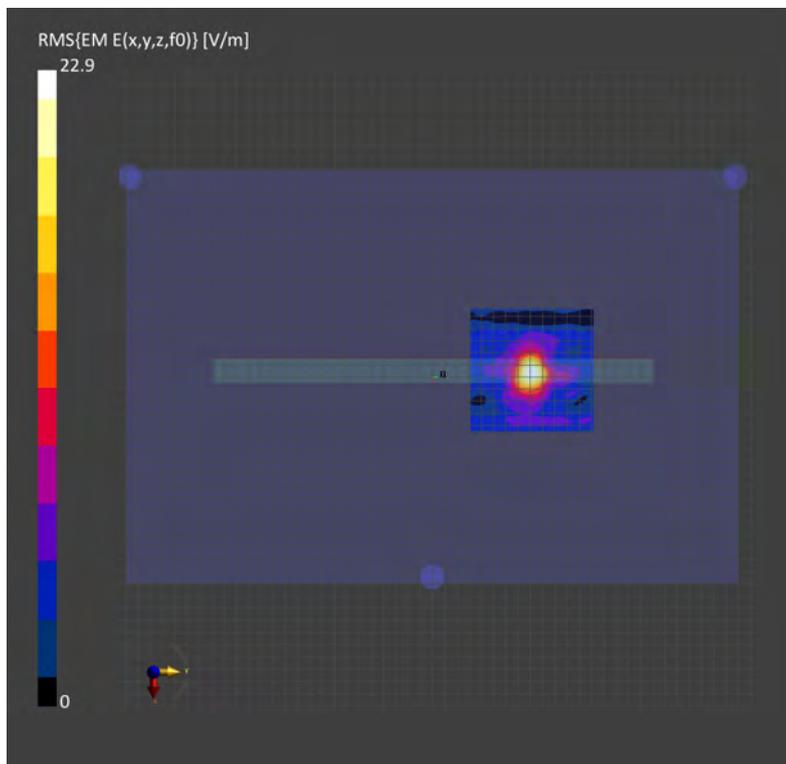
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave	Air -	EUMmWV4 - SN9679, F1-55GHz, 2021-10-06	DAE4 Sn1665, 2021-03-01

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
MNA	N/A

Measurement Results

Scan Type	5G Scan
Date	2022-01-12, 09:41
Avg Area (cm ²)	4.00
psPDch+ (W/m ²)	0.634
psPDch+ (W/m ²)	0.727
psPDmch+ (W/m ²)	0.933
E _{max} (V/m)	22.9
Power Dch (dB)	-0.01



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Report No. : EN/2021/C0024
Measurement Report for Bullet, EDGE TOP, U-NII-7, IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 143 (6665.0 MHz)

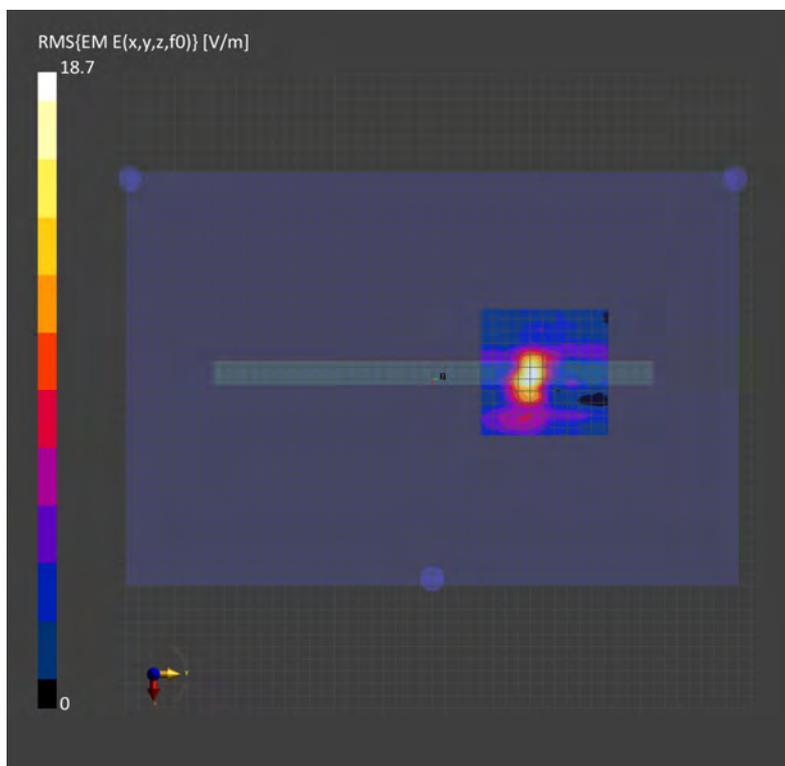
Device Under Test Properties			
Model, Manufacturer	Dimensions (mm)	IMEI	DUT Type
Bullet,	232.0 x 360.0 x 20.0		Tablet

Exposure Conditions				
Phantom Section	Position, Test Distance (mm)	Band	Group, ULD	Frequency (MHz), Channel Number
SG	EDGE TOP, 2.00	U-NII-7	WLAN, 10743-AAAC	6665.0, 143
				Conversion Factor
				1.0

Hardware Setup			
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave	Air -	EUMmWV4 - SN9679, F1-55GHz, 2021-10-06	DAE4 Sn1665, 2021-03-01

Scans Setup	
Scan Type	SG Scan
Grid Extents (mm)	100.0 x 100.0
Grid Steps (lambda)	0.0625 x 0.0625
Sensor Surface (mm)	2.0
MAIA	N/A

Measurement Results	
Scan Type	SG Scan
Date	2022-01-12, 11:48
Avg Area (cm ²)	4.00
psPDm+ (W/m ²)	0.298
psPDm+ (W/m ²)	0.360
psPDm+ (W/m ²)	0.503
E _{max} (V/m)	18.7
Power DnB (dB)	-0.09



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Report No. : EN/2021/C0024
Measurement Report for Bullet, EDGE TOP, U-NII-8, IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 207 (6985.0 MHz)

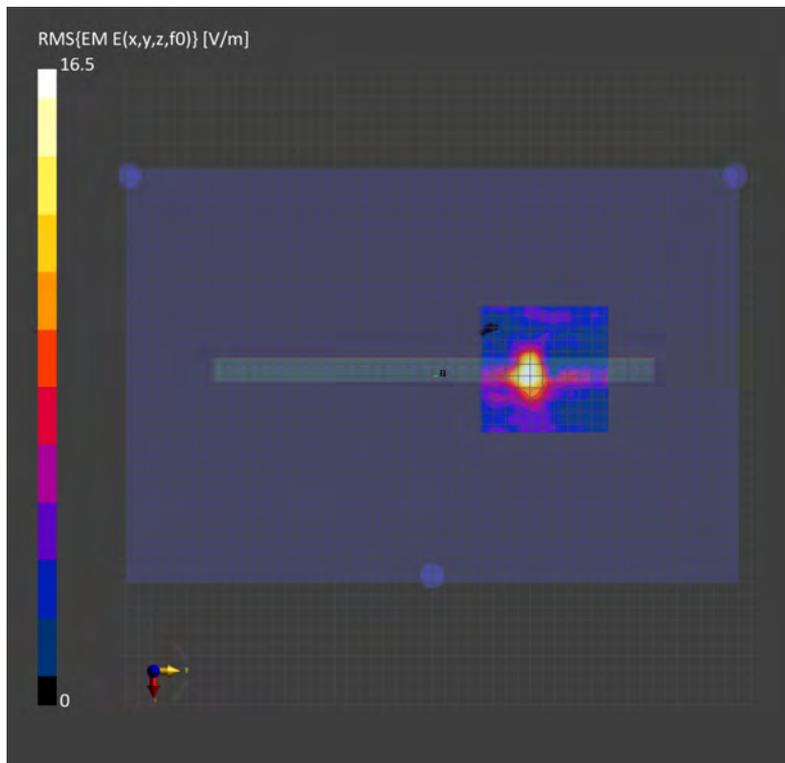
Device Under Test Properties			
Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Bullet,	232.0 x 360.0 x 20.0		Tablet

Exposure Conditions				
Phantom Section	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number
SG	EDGE TOP, 2.00	U-NII-8	WLAN, 10743-AAC	6985.0, 207
				Conversion Factor
				1.0

Hardware Setup			
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
rmmWave	Air	EUmmWV4 - SN9579, F1-55GHz, 2021-10-06	DAE4 Sn1665, 2021-03-01

Scans Setup	
Scan Type	SG Scan
Grid Extents [mm]	100.0 x 100.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0
MAIA	N/A

Measurement Results	
Scan Type	SG Scan
Date	2022-01-12, 13:51
Avg. Area [cm ²]	4.00
psPD ₀₊ [W/m ²]	0.275
psPD ₀₊ [W/m ²]	0.324
psPD ₀₊ [W/m ²]	0.471
E _{max} [V/m]	16.5
Power Drift [dB]	-0.02



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Report No. :EN/2021/C0024
Measurement Report for Bullet, EDGE TOP, U-NII-S, IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 15 (6025.0 MHz)
Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Bullet	232.0 x 380.0 x 20.0		Tablet

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
SG	EDGE TOP, 2.00	U-NII-S	WLAN, 10743-AAC	6025.0, 15	1.0

Hardware Setup

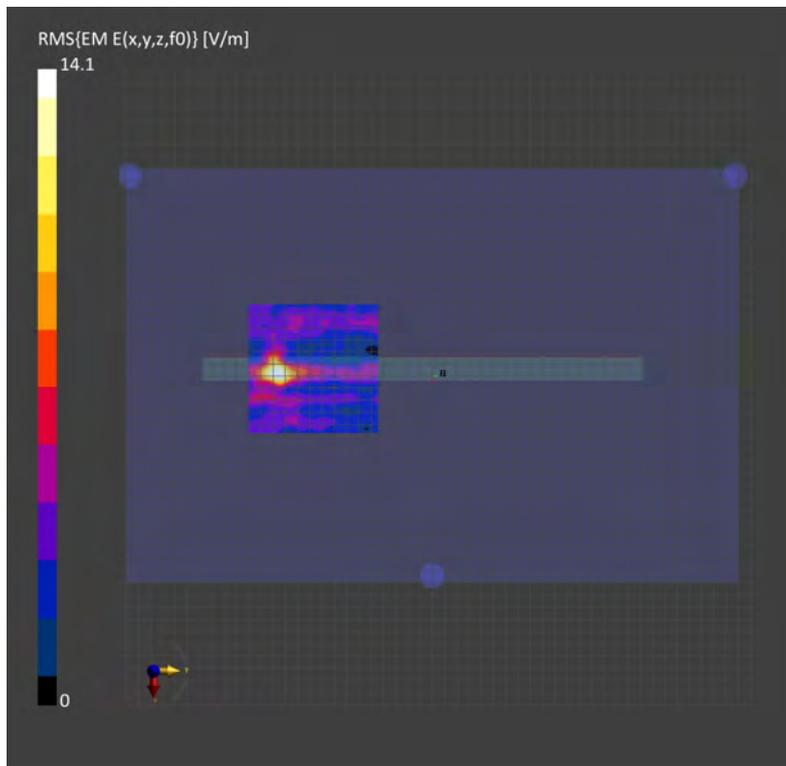
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave	Air -	ELmmWV4 - SN9579, F1-65GHz, 2021-10-06	DAE4 Sn1665, 2021-03-01

Scans Setup

Scan Type	5G Scan
Grid Extent [mm]	100.0 x 100.0
Grid Steps [lambda]	0.0625 x 0.0625
Sensor Surface [mm]	2.0
MAJA	N/A

Measurement Results

Scan Type	5G Scan
Date	2022-01-12, 15:57
Avg. Area [cm ²]	4.00
psPDm ⁺ [W/m ²]	0.051
psPDm ⁺ [W/m ²]	0.093
psPDm ⁺ [W/m ²]	0.201
E _{max} [V/m]	14.1
Power Dn [dB]	0.18



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Report No. :EN/2021/C0024
Measurement Report for Bulleit, EDGE TOP, U-NII-5, IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 79 (6345.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Bulleit	232.0 x 360.0 x 20.0		Tablet

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5G	EDGE TOP, 2.00	U-NII-5	WLAN, 10743-AAC	6345.0, 79	1.0

Hardware Setup

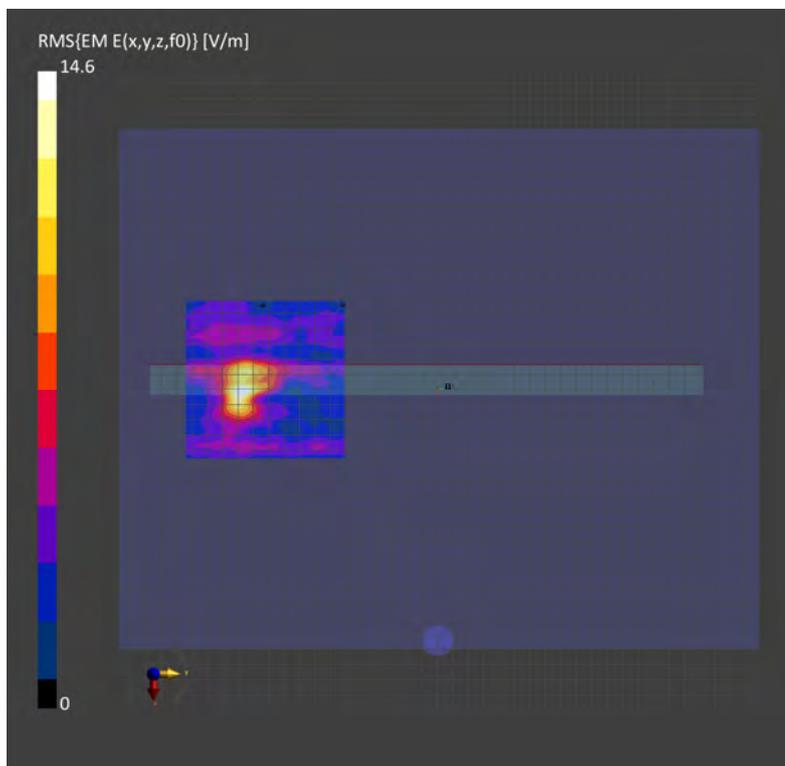
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave	Air -	EUmmWV4 - SN1679, F1-55GHz, 2021-10-08	DAE4 Sn1665, 2021-03-01

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
MAJA	N/A

Measurement Results

Scan Type	5G Scan
Date	2022-01-12, 17:05
Avg Area [cm ²]	4.00
psPDm+ [W/m ²]	0.145
psPDm+* [W/m ²]	0.183
psPDm+* [W/m ²]	0.281
E _{max} [V/m]	14.6
Power Chrt [dB]	-0.08



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Report No. : EN/2021/C0024
Measurement Report for Bullet, EDGE TOP, U-NII-6, IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 111 (6505.0 MHz)

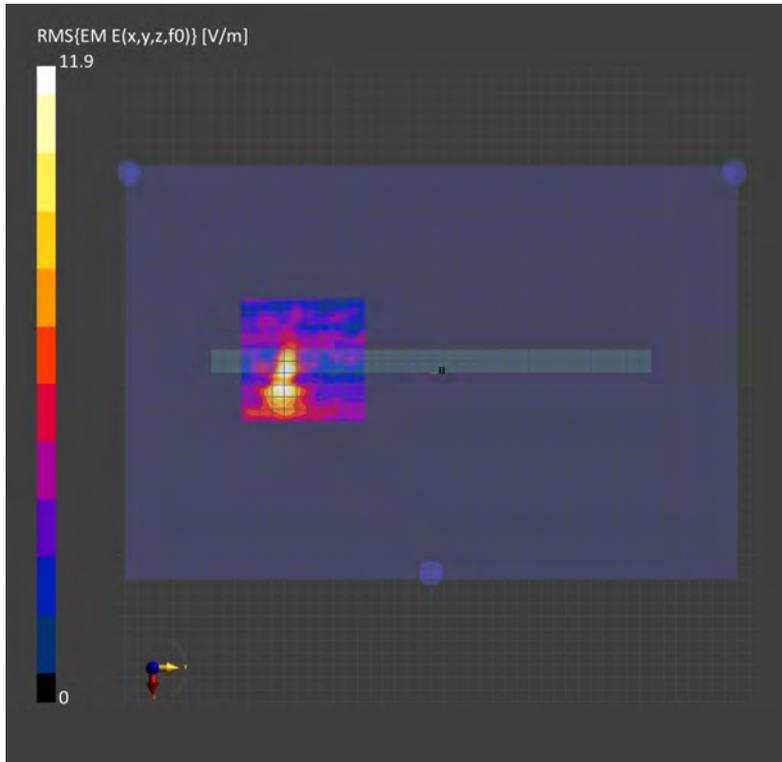
Device Under Test Properties			
Model, Manufacturer	Dimensions (mm)	IMEI	DUT Type
Bullet,	232.0 x 360.0 x 20.0		Tablet

Exposure Conditions				
Phantom Section	Position, Test Distance (mm)	Band	Group, UID	Frequency (MHz), Channel Number
5G	EDGE TOP, 2.00	U-NII-6	WLAN, 10743-AAC	6505.0, 111
				Conversion Factor
				1.0

Hardware Setup			
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave	Air -	ELmmWV4 - SN9579, F1-55GHz, 2021-10-06	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
MUA	N/A

Measurement Results	
Scan Type	5G Scan
Date	2022-01-12, 19:09
Avg. Area (cm ²)	4.00
psPDm+ (W/m ²)	0.153
psPDm+ (W/m ²)	0.172
psPDm+ (W/m ²)	0.201
E _{max} (V/m)	11.9
Power DnF (dB)	-0.19



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Report No. : EN/2021/C0024
Measurement Report for Bullet, EDGE TOP, U-NII-7, IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 143 (6665.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions (mm)	IMEI	DUT Type
Bullet,	232.0 x 360.0 x 20.0		Tablet

Exposure Conditions

Phantom Section	Position, Test Distance (mm)	Band	Group, ULD	Frequency (MHz), Channel Number	Conversion Factor
SG	EDGE TOP, 2.00	U-NII-7	WLAN, 10743-AAC	6665.0, 143	1.0

Hardware Setup

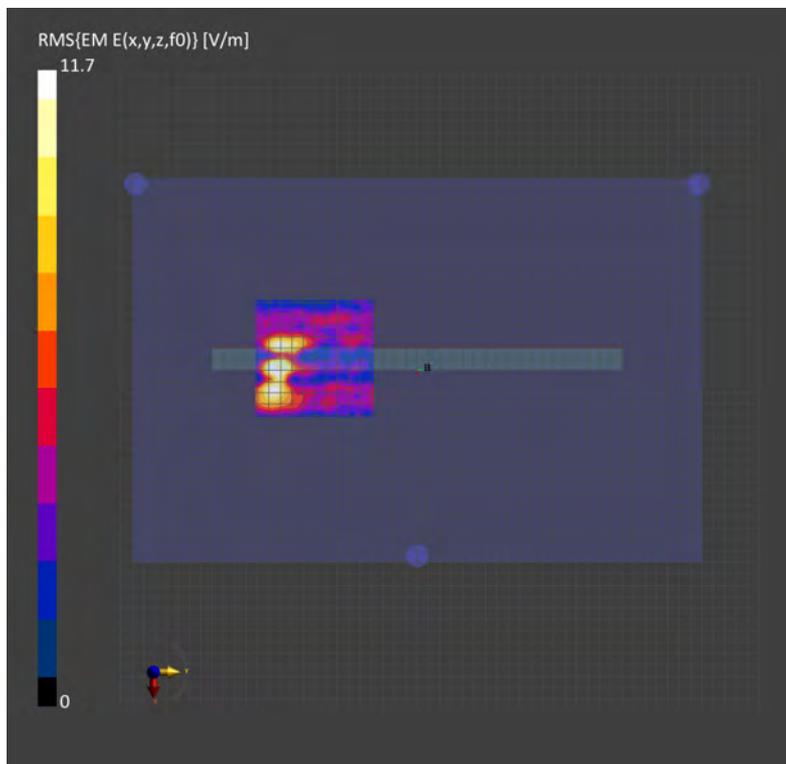
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave	Air -	EUMmWV4 - SN9679, F1-55GHz, 2021-10-06	DAE4 Sn1665, 2021-03-01

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
MNA	N/A

Measurement Results

Scan Type	5G Scan
Date	2022-01-12, 21:22
Avg Area [cm ²]	4.00
psPDm+ [W/m ²]	0.121
psPDm+ [W/m ²]	0.148
psPDm+ [W/m ²]	0.290
E _{max} [V/m]	11.7
Power Dth [dB]	-9.14



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Report No. : EN/2021/C0024
Measurement Report for Bullet, EDGE TOP, U-NII-B, IEEE 802.11ax (160MHz, MCS0, 90pc duty cycle), Channel 207 (6985.0 MHz)

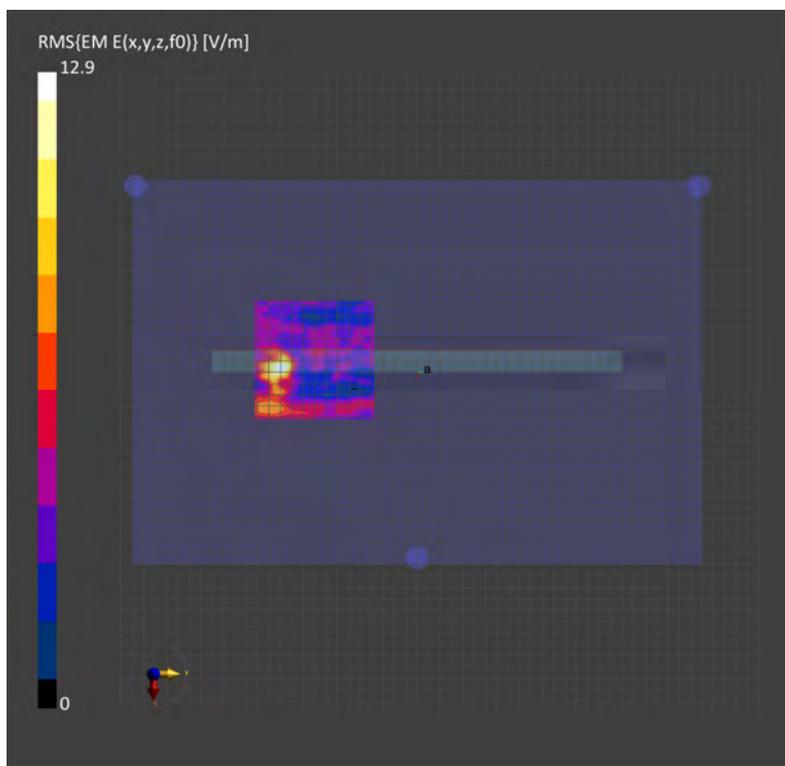
Device Under Test Properties			
Model, Manufacturer	Dimensions (mm)	IMEI	DUT Type
Bullet,	232.0 x 360.0 x 20.0		Tablet

Exposure Conditions				
Phantom Section	Position, Test Distance (mm)	Band	Group, UID	Frequency (MHz), Channel Number
SG	EDGE TOP, 2.00	U-NII-B	WLAN, 10743-AAAC	6985.0, 207
				Conversion Factor
				1.0

Hardware Setup			
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave	Air -	EUMmWV4 - SN9679, F1-55GHz, 2021-10-06	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
MAIA	N/A

Measurement Results	
Scan Type	5G Scan
Date	2022-01-12, 23:26
Avg Area [cm ²]	4.00
psPDch [W/m ²]	0.142
psPDch+ [W/m ²]	0.206
psPDchd+ [W/m ²]	0.264
E _{max} [V/m]	12.9
Power Dth [dB]	0.09



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6. SAR System Performance Verification

Date: 2021/12/24

Report No. :EN/2021/C0024

Dipole 2450 MHz, SN:727

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

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.74$ S/m; $\epsilon_r = 39.902$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.67, 7.67, 7.67) @ 2450 MHz; Calibrated: 2021/4/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2021/4/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 18.9 W/kg

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

Reference Value = 94.19 V/m; Power Drift = 0.11 dB

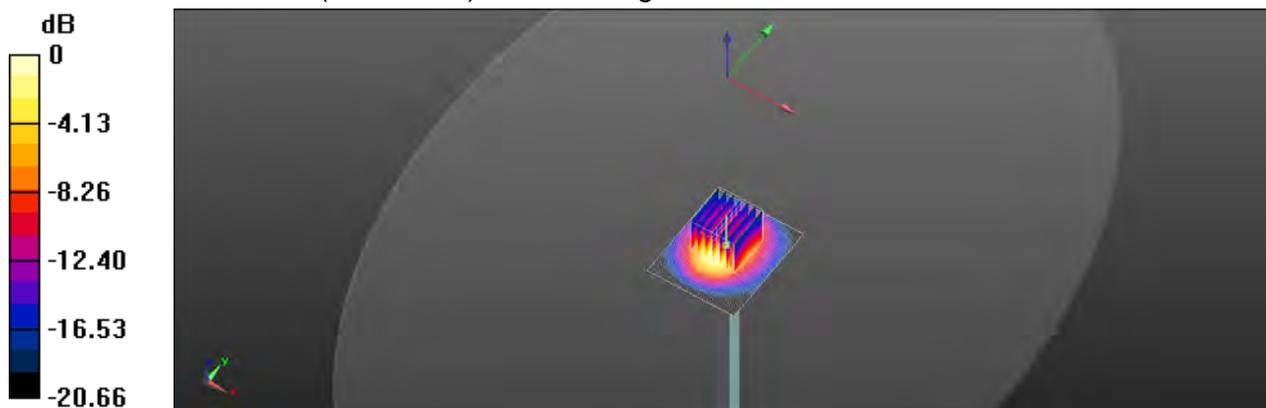
Peak SAR (extrapolated) = 26.9 W/kg

SAR(1 g) = 13.3 W/kg; SAR(10 g) = 6.28 W/kg

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

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

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



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

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Date: 2022/1/8

Report No. :EN/2021/C0024

Dipole 2450 MHz, SN:727

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

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.815$ S/m; $\epsilon_r = 39.63$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.67, 7.67, 7.67) @ 2450 MHz; Calibrated: 2021/4/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2021/4/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 20.2 W/kg

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

Reference Value = 102.4 V/m; Power Drift = 0.05 dB

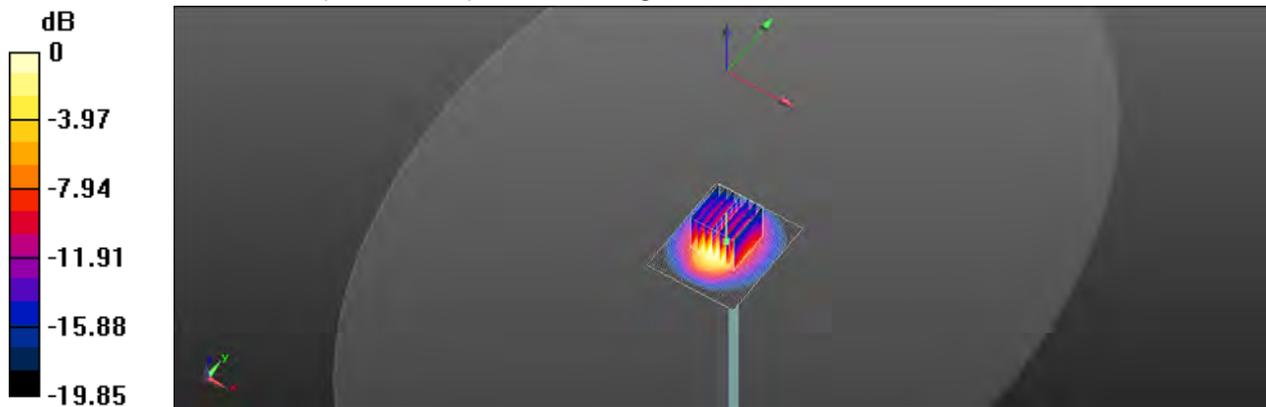
Peak SAR (extrapolated) = 24.6 W/kg

SAR(1 g) = 12.85 W/kg; SAR(10 g) = 6.24 W/kg

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

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

Maximum value of SAR (measured) = 18.8 W/kg



0 dB = 18.8 W/kg = 12.74 dBW/kg

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Date: 2021/12/25

Report No. :EN/2021/C0024

Dipole 5200 MHz, SN:1023

Communication System: CW; Frequency: 5200 MHz; Duty cycle= 1:1

Medium parameters used: $f = 5200$ MHz; $\sigma = 4.646$ S/m; $\epsilon_r = 36.217$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(5.61, 5.61, 5.61) @ 5200 MHz; Calibrated: 2021/4/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2021/4/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 15.4 W/kg

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

Reference Value = 57.62 V/m; Power Drift = 0.07 dB

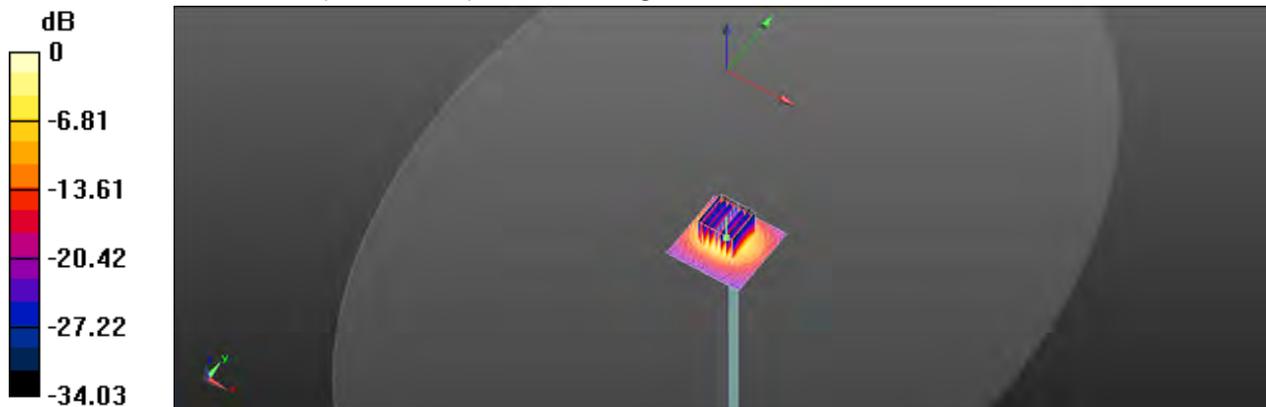
Peak SAR (extrapolated) = 29.4 W/kg

SAR(1 g) = 7.7 W/kg; SAR(10 g) = 2.25 W/kg

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

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

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



0 dB = 15.8 W/kg = 11.99 dBW/kg

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Date: 2021/12/26

Report No. :EN/2021/C0024

Dipole 5300 MHz, SN:1023

Communication System: CW; Frequency: 5300 MHz; Duty cycle= 1:1

Medium parameters used: $f = 5300$ MHz; $\sigma = 4.767$ S/m; $\epsilon_r = 36.054$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 21.6°C; Liquid temperature: 22.0°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(5.61, 5.61, 5.61) @ 5300 MHz; Calibrated: 2021/4/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2021/4/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

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

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

Reference Value = 63.02 V/m; Power Drift = 0.05 dB

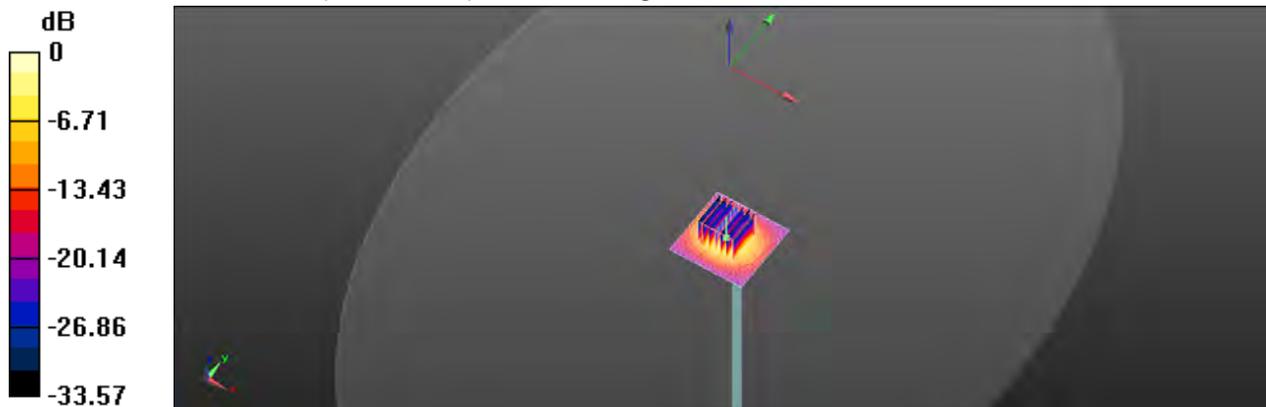
Peak SAR (extrapolated) = 32.4 W/kg

SAR(1 g) = 8.13 W/kg; SAR(10 g) = 2.35 W/kg

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

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

Maximum value of SAR (measured) = 16.9 W/kg



0 dB = 16.9 W/kg = 12.28 dBW/kg

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Date: 2021/12/27

Report No. :EN/2021/C0024

Dipole 5600 MHz, SN:1023

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

Medium parameters used: $f = 5600$ MHz; $\sigma = 5.116$ S/m; $\epsilon_r = 35.596$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(4.9, 4.9, 4.9) @ 5600 MHz; Calibrated: 2021/4/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2021/4/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 18.7 W/kg

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

Reference Value = 65.88 V/m; Power Drift = 0.05 dB

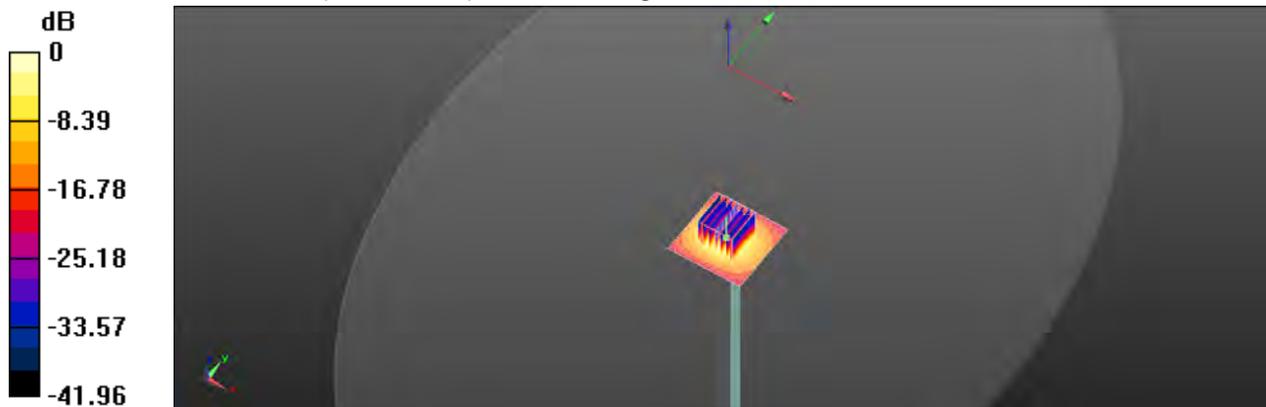
Peak SAR (extrapolated) = 41.9 W/kg

SAR(1 g) = 8.48 W/kg; SAR(10 g) = 2.43 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 46.2%

Maximum value of SAR (measured) = 17.7 W/kg



0 dB = 17.7 W/kg = 12.48 dBW/kg

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Date: 2021/12/28

Report No. :EN/2021/C0024

Dipole 5800 MHz, SN:1023

Communication System: CW; Frequency: 5800 MHz; Duty cycle= 1:1

Medium parameters used: $f = 5800$ MHz; $\sigma = 5.359$ S/m; $\epsilon_r = 35.009$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 21.7°C; Liquid temperature: 22.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(4.95, 4.95, 4.95) @ 5800 MHz; Calibrated: 2021/4/28
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2021/4/23
- Phantom: ELI
- DASY52 52. 10.4 (1527); SEMCAD X 14.6.14(7483)

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

Maximum value of SAR (interpolated) = 17.7 W/kg

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

Reference Value = 57.85 V/m; Power Drift = 0.05 dB

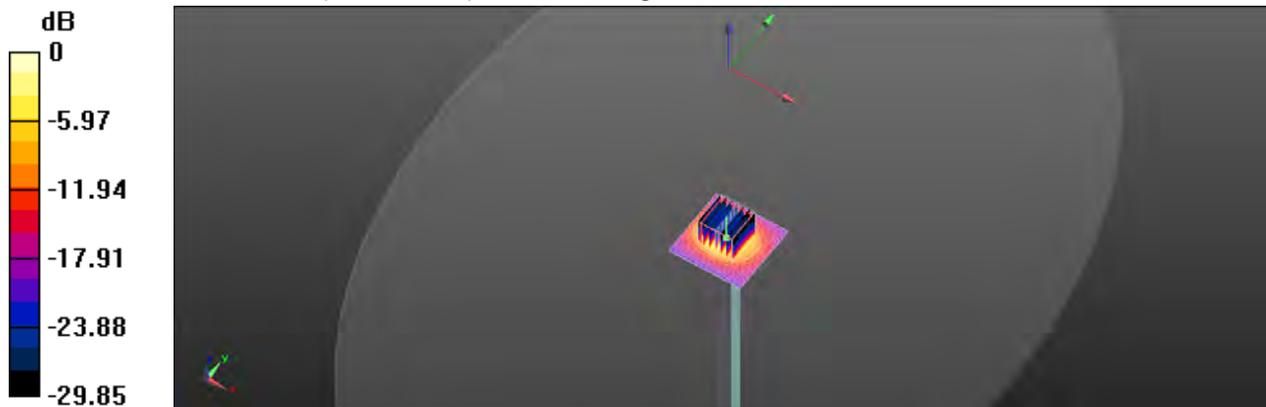
Peak SAR (extrapolated) = 43.3 W/kg

SAR(1 g) = 8.05 W/kg; SAR(10 g) = 2.27 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 45.3%

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



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

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Report No. :EN/2021/C0024
Measurement Report for Device, FRONT, Validation band, CW, Channel 6500 (6500.0 MHz)
Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Device:	6.0 x 16.0 x 300.0		CW

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permissivity
Flat, HSL	FRONT, 5.00	Validation band	CW, 0-	6500.0, 6500	5.5	6.008	34.121

Hardware Setup

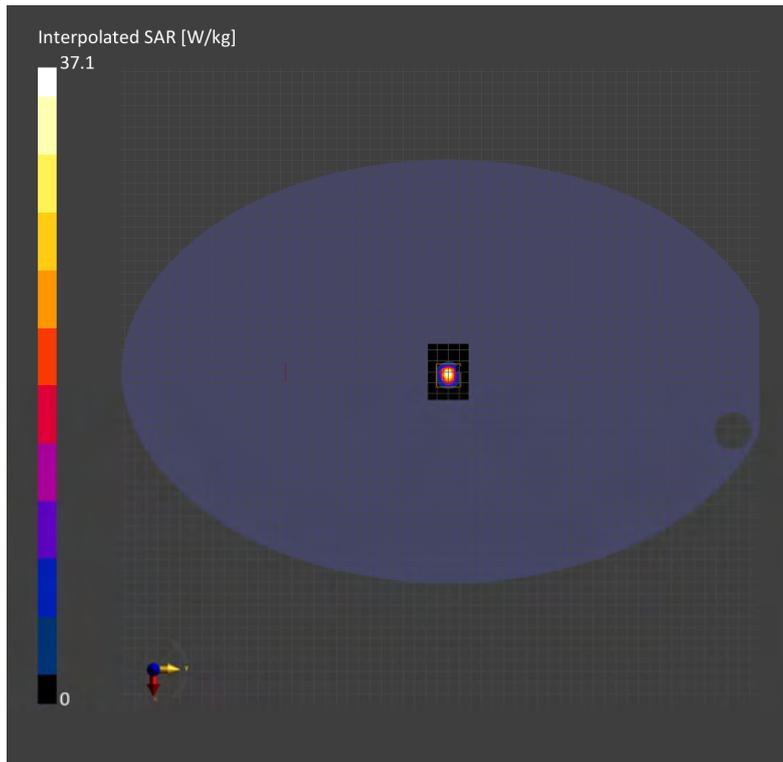
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI	HBL-600-10000	EX3DV4 - SN7375, 2021-12-20	DAE4 Sn1666, 2021-03-01

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]	6.5 x 6.0	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4
Grated Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-01-11, 00:17	2022-01-11, 00:27
psSAR1g [W/kg]	22.8	27.9
psSAR10g [W/kg]	5.89	5.38
Power Drift [dB]	0.11	0.05
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		54.0
Dist 3dB Peak [mm]		4.8



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Report No. : EN/2021/C0024
Measurement Report for Device, FRONT, Validation band, CW, Channel 6500 (6500.0 MHz)
Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Device	6.0 x 16.0 x 300.0		CW

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 5.00	Validation band	CW, 0-	6500.0, 6500	5.5	6.121	34.298

Hardware Setup

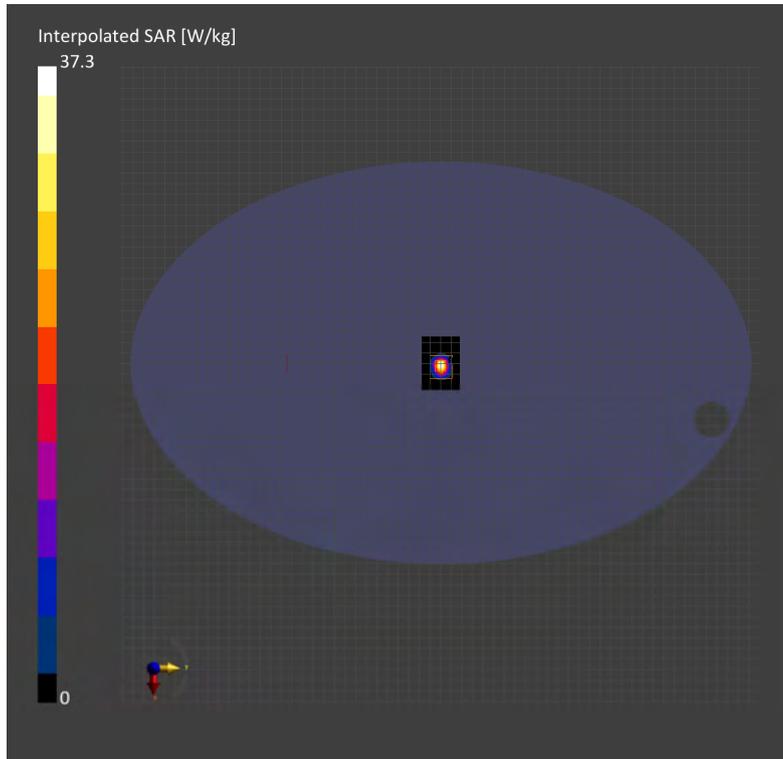
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI	HBBL-600-10000	EX3DV4 - SN7375, 2021-12-20	DAE4 Sn1865, 2021-03-01

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
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-01-20, 00:34	2022-01-20, 00:45
psSAR1g [W/Kg]	23.0	28.1
psSAR10g [W/Kg]	5.25	5.71
Power Drift [dB]	0.03	-0.03
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		54.0
Dist 3dB Peak [mm]		4.9



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Report No. : EN/2021/C0024
Measurement Report for Device, FRONT, Validation band, CW, Channel 7000 (7000.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Device:	6.0 x 14.0 x 297.0		CW

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 5.00	Validation band	CW, 0--	7000.0, 7000	5.45	6.582	33.541

Hardware Setup

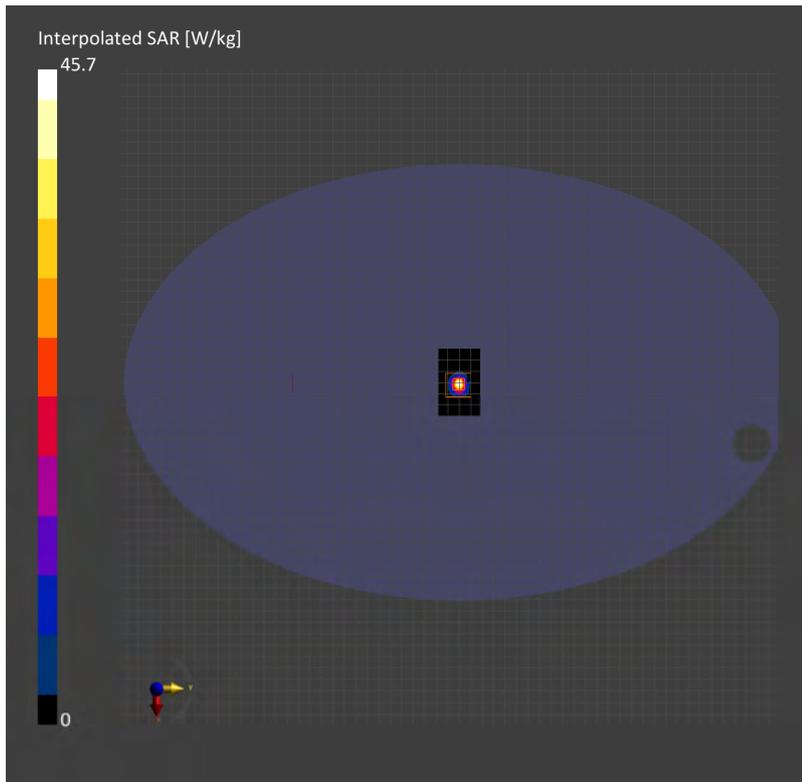
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
EUJ	HBBL-600-10000	EX3DV4 - SN7375, 2021-12-20	DAE4 Sn1665, 2021-03-01

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
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-01-11, 00:50	2022-01-11, 01:00
psSAR1g [W/kg]	25.7	27.4
psSAR10g [W/kg]	4.32	4.61
Power Drift [dB]	-0.04	0.06
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		49.5
Dist 3dB Peak [mm]		4.8



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Report No. : EN/2021/C0024
Measurement Report for Device, FRONT, Validation band, CW, Channel 7000 (7000.0 MHz)
Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Device,	6.0 x 16.0 x 300.0		CW

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 5.00	Validation band	CW, 0--	7000.0, 7000	5.45	6.695	33.718

Hardware Setup

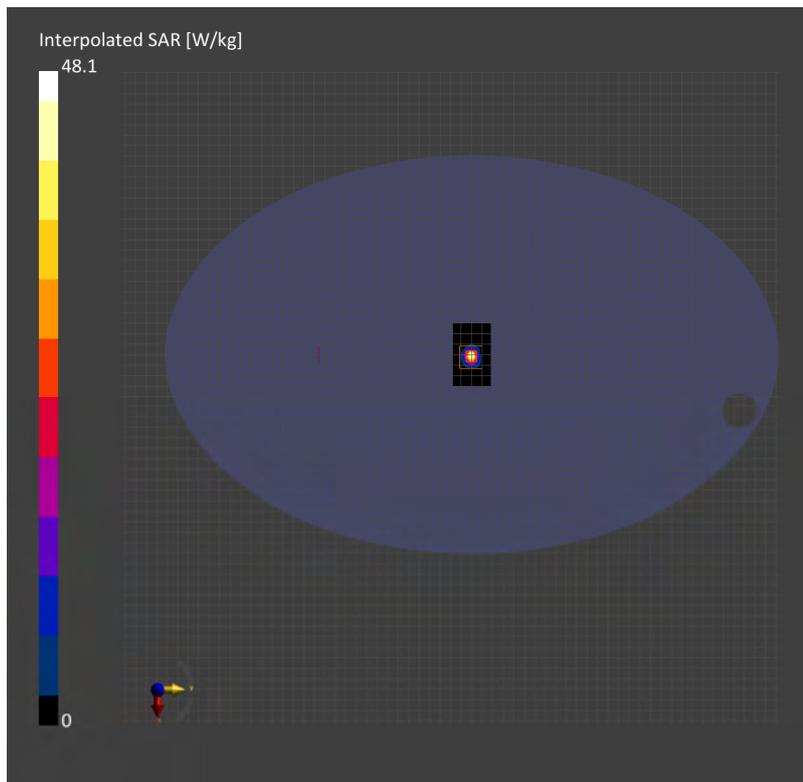
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
ELI	HBBL-600-10000	EX3DV4 - SN7375, 2021-12-20	DAE4 Sn1685, 2021-03-01

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
Graded Grid	Yes	Yes
Grading Ratio	1.5	1.4
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2022-01-20, 01:05	2022-01-20, 01:15
psSAR1g [W/Kg]	26.5	28.0
psSAR10g [W/Kg]	4.91	4.85
Power Drift [dB]	-0.11	0.05
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		49.5
Dist 3dB Peak [mm]		4.8



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Report No. : EN/2021/C0024
Measurement Report for 10G Source, FRONT, Validation band, CW, Channel 10000 (10000.0 MHz)

Device Under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
5G Verification Source 10 GHz,	100.0 x 100.0 x 172.0		CW

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5G	FRONT, 10.00	Validation band	CW, 0--	10000.0, 10000	1.0

Hardware Setup

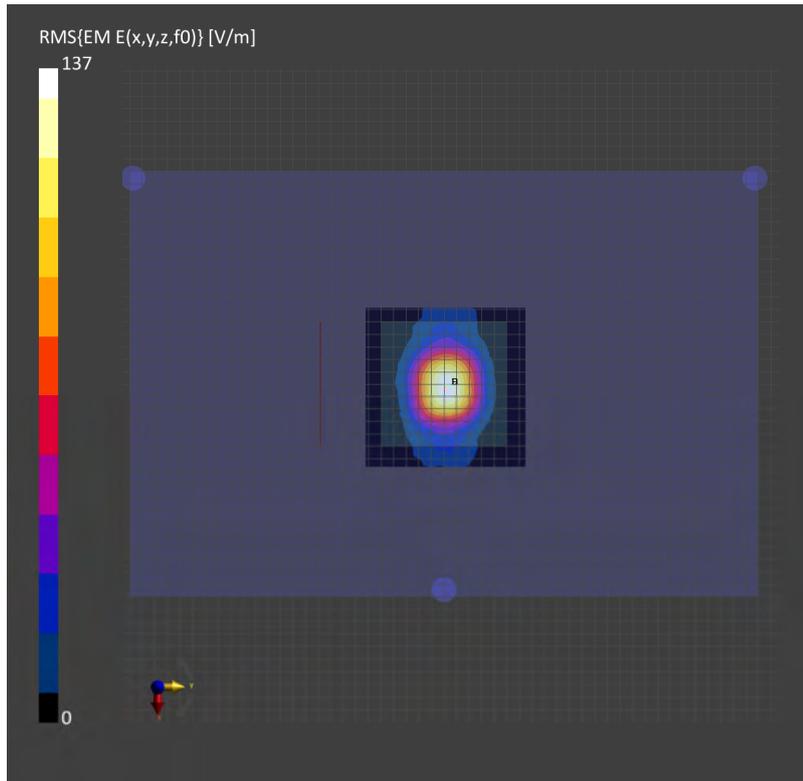
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave	Air -	EUmmWV4 - SN9579_F1-55GHz, 2021-10-06	DAE4 Sn1665, 2021-03-01

Scans Setup

Scan Type	5G Scan
Grid Extents [mm]	120.0 x 120.0
Grid Steps [lambda]	0.25 x 0.25
Sensor Surface [mm]	10.0
MAIA	N/A

Measurement Results

Scan Type	5G Scan
Date	2022-01-12, 02:38
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	40.2
psPDtot+ [W/m ²]	40.4
psPDmod+ [W/m ²]	40.5
E _{max} [V/m]	133
Power Drift [dB]	0.05



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7.Uncertainty Budget

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

A	c	D	e		f	g	h=c * f / e	i=c * g / e	k
Source of Uncertainty	Tolerance/ Uncertainty	Probability Distributio	Div	Div Value	ci (1g)	ci (10g)	Standard uncertainty	Standard uncertainty	vi, or Veff
Measurement system									
Probe calibration	6.55%	N	1	1	1	1	6.55%	6.55%	∞
<i>Isotropy, Axial</i>	3.50%	R	√3	1.732	1	1	2.02%	2.02%	∞
<i>Isotropy, Hemispherical</i>	9.60%	R	√3	1.732	1	1	5.54%	5.54%	∞
Modulation Response	2.40%	R	√3	1.732	1	1	1.40%	1.40%	∞
Boundary Effect	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Linearity	4.70%	R	√3	1.732	1	1	2.71%	2.71%	∞
Detection Limits	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Readout Electronics	0.30%	N	1	1	1	1	0.30%	0.30%	∞
Response time	0.80%	R	√3	1.732	1	1	0.46%	0.46%	∞
Integration Time	2.60%	R	√3	1.732	1	1	1.50%	1.50%	∞
Measurement drift (class A evaluation)									
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.)	1.09%	N	1	1	0.64	0.43	0.70%	0.47%	M
Liquid Conductivity (mea.)	1.69%	N	1	1	0.6	0.49	1.01%	0.83%	M
Combined standard uncertainty		RSS					11.78%	11.75%	
Expant uncertainty (95% confidence interval), K=2							23.56%	23.49%	

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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	v_i , or V_{eff}
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)	1.75%	R	$\sqrt{3}$	1.732	1	1	1.01%	1.01%	∞
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.)	1.84%	N	1	1	0.64	0.43	1.18%	0.79%	M
Liquid Conductivity (mea.)	3.56%	N	1	1	0.6	0.49	2.14%	1.74%	M
Combined standard uncertainty		RSS					11.68%	11.57%	
Expant uncertainty (95% confidence interval), K=2							23.35%	23.14%	

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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	0.125	R	√3	1.732	1	1	0.1	0.1
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 dependence	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	

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

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Appendixes

Refer to separated files for the following appendixes.

EN2021C0024 SAR_Appendix A Photographs

EN2021C0024 SAR_Appendix B DAE & Probe Cal. Certificate

EN2021C0024 SAR_Appendix C Phantom Description & Dipole Cal. Certificate

- End of report -

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