

Page: 1 of 121

SAR TEST REPORT





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

Product Name Tablet **Brand Name** SHARP

Prepared for SHARP CORPORATION

2-13-1, HACHIHONMATSU-IIDA,

Company Address HIGASHI-HIROSHIMA-SHI, HIROSHIMA PREFECTURE

739-0192, JAPAN

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

KDB616217D04v01r02,KDB865664D01v01r04, KDB865664D02v01r02.KDB941225D01v03r01.

KDB941225D05v02r05,KDB447498D01v06,

KDB248227D01v02r02

FCC ID APYHRO00284 **Date of Receipt** May. 15, 2020

Date of Test(s) May. 19, 2020 ~ Jun. 06, 2020

Date of Issue Jun. 16, 2020

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

Remarks:

Standards

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

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Signed on behalf of SGS

Clerk / Ruby Ou	Engineer / Bond Tsai	Asst. Manager / John Yeh
Ruby Ou	Bondisai	John Teh

Date: Jun. 16, 2020

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Page: 2 of 121

Revision History

Report Number	Revision	Description	Issue Date
E5/2020/40009	Rev.00	Initial creation of document	Jun. 16, 2020

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Page: 3 of 121

Contents

1.	General Information	4
	1.1 Testing Laboratory	4
	1.2 Details of Applicant	4
	1.3 Description of EUT	5
	1.4 Test Environment	38
	1.5 Operation Description	38
	1.6 Proximity sensor operation description	
	1.7 The SAR Measurement System	65
	1.8 System Components	67
	1.9 SAR System Verification	69
	1.0 Tissue Simulant Fluid for the Frequency Band	71
	1.11 Evaluation Procedures	73
	1.12 Probe Calibration Procedures	74
	1.13 Test Standards and Limits	77
2.	Summary of Results	79
	2.1 Decision rules	79
	2.2 Summary of Results	79
	2.3 Reporting statements of conformity	83
3.	Simultaneous Transmission Analysis	84
	3.1 Estimated SAR calculation	
	3.2 SPLSR evaluation and analysis	85
4.	Instruments List	95
5.	Measurements	96
	SAR System Performance Verification	
	Uncertainty Budget	
	opendixes	
~ }	E5202040009 SAR Appendix A Photographs	
	E5202040009 SAR Appendix B DAE & Probe Cal. Certificate	
	E5202040009 SAR_Appendix C Phantom Description & Dipole Cal. Certificate	
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Page: 4 of 121

1. General Information

1.1 Testing Laboratory

SGS Taiwan Ltd. Central RF Lab			
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Tel +886-2-2299-3279			
Fax +886-2-2298-0488			
Internet http://www.tw.sgs.com/			

1.2 Details of Applicant

Company Name	SHARP CORPORATION
II Omnany Addrage	2-13-1, HACHIHONMATSU-IIDA, HIGASHI-HIROSHIMA-SHI, HIROSHIMA PREFECTURE 739-0192, JAPAN

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Page: 5 of 121

1.3 Description of EUT

Product Name	Tablet			
Brand Name	SHARP			
FCC ID	APYHRO00284			
Mode of Operation			_	FDD
	WCDMA		1	
	LTE FDD		1	
Duty Cycle	WLAN802.11 a/b/g/n(20M/ac(20M/40M/80M)		er to 33-3	page 7
	Bluetooth	-	76.8°	%
	WCDMA Band V	824	_	849
	LTE FDD Band 5	824	_	849
	WLAN802.11 b/g/n(20M)	2412	_	2462
	WLAN802.11 a/n(20M)/ac(20M) 5.2G	5180	_	5240
	WLAN802.11 n(40M)/ac(40M) 5.2G	5190	_	5230
	WLAN802.11 ac(80M) 5.2G	5210		
TX Frequency Range (MHz)	WLAN802.11 a/n(20M)/ac(20M) 5.3G	5260	_	5320
(1411 12)	WLAN802.11 n(40M)/ac(40M) 5.3G	5270	_	5310
	WLAN802.11 ac(80M) 5.3G	5290)
	WLAN802.11 a/n/ac(20M) 5.6G	5500	_	5720
	WLAN802.11 n/ac(40M) 5.6G	5510	_	5710
	WLAN802.11 ac(80M) 5.6G	5530	_	5690
	Bluetooth	2402	_	2480
	WCDMA Band V	4132	_	4233
Channel Number (ARFCN)	LTE FDD Band 5	20407	_	20643
,	WLAN802.11 b/g/n(20M)	1	_	11

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Page: 6 of 121

	WLAN802.11 a/n(20M)/ac(20M) 5.2G	36	_	48
	WLAN802.11 n(40M)/ac(40M) 5.2G	38	_	46
	WLAN802.11 ac(80M) 5.2G		42	
	WLAN802.11 a/n(20M)/ac(20M) 5.3G	52	_	64
Channel Number	WLAN802.11 n(40M)/ac(40M) 5.3G	54	_	62
(ARFCN)	WLAN802.11 ac(80M) 5.3G		58	
	WLAN802.11 a/n/ac(20M) 5.6G	100	_	144
	WLAN802.11 n/ac(40M) 5.6G	102	_	142
	WLAN802.11 ac(80M) 5.6G	106	_	138
	Bluetooth	0	_	78

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Page: 7 of 121

Full power

•	Max. SAR (1g) (Unit: W/Kg)						
Antenna	Band	Measured	Reported	Channel	Position		
	WCDMA Band V	1.13	1.37	4233	Back side		
WWAN	LTE Band 5	1.13	1.13	20600	Back side		

	Max. SAR (1g) (Unit: W/Kg)						
Antenna	Band	Measured	Reported	Channel	Position		
	WLAN 802.11b	0.17	0.17	11	Back side		
	WLAN 802.11g	0.41	0.44	1	Back side		
	Bluetooth(GFSK)	0.00	0.00	78	Back side		
WIFI/BT	WLAN 802.11n(40M) 5.2G	1.09	1.25	46	Top side		
VVIFI/DI	WLAN 802.11ac(40M) 5.2G	0.91	1.07	46	Top side		
	WLAN 802.11n(40M) 5.3G	1.04	1.11	54	Top side		
	WLAN 802.11ac(40M) 5.3G	0.98	1.07	54	Top side		
	WLAN 802.11ac(80M) 5.6G	0.69	0.70	122	Top side		

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Page: 8 of 121

Reduced power

Toddood pono.							
	Max. SAR (1g) (Unit: W/Kg)						
Antenna	Band	Measured	Reported	Channel	Position		
	WCDMA Band V	0.66	0.88	4233	Top side		
WWAN	LTE Band 5	0.61	0.62	20600	Top side		

	Max. SAR (1g) (Unit: W/Kg)							
Antenna	Antenna Band		Reported	Channel	Position			
	WLAN 802.11b	0.59	0.59	6	Back side			
	WLAN 802.11n(40M) 5.2G	0.78	0.80	46	Top side			
M/IEI/DT	WLAN 802.11ac(80M) 5.2G	0.81	0.84	42	Top side			
WIFI/BT	WLAN 802.11n(40M) 5.3G	0.73	0.76	62	Top side			
	WLAN 802.11ac(80M) 5.3G	0.83	0.86	58	Top side			
	WLAN 802.11ac(80M) 5.6G	0.37	0.38	138	Top side			

	Simultaneous Transmission SAR (1g) (Unit: W/Kg)							
Antenna	mode	sum	Scenarios					
	DSS	0.88	Back side of WCDMA Band V + Bluetooth					
WIFI/BT	DTS	1.57	Back side of LTE Band 5 + 2.4GHz WLAN					
	NII	1.48	Back side of LTE Band 5 + 5GHz WLAN					

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Page: 9 of 121

WCDMA Band V - HSDPA / HSUPA Conducted power table (Full power):

	Band		WCDMA V	
	TX Channel	4132	4183	4233
	Frequency (MHz)	826.4	836.6	846.6
Max. Rated Av	g. Power+Max. Tolerance (dBm)		25.00	
3GPP Rel 99	RMC 12.2Kbps	24.21	24.27	24.16
	HSDPA Subtest-1	21.18	21.25	21.07
3GPP Rel 5	HSDPA Subtest-2	21.22	21.23	21.10
SGPP Rei 5	HSDPA Subtest-3	21.20	21.28	21.13
	HSDPA Subtest-4	21.24	21.26	21.11
	HSUPA Subtest-1	21.24	21.25	21.13
	HSUPA Subtest-2	20.73	20.75	20.69
3GPP Rel 6	HSUPA Subtest-3	20.70	20.73	20.62
	HSUPA Subtest-4	20.79	20.74	20.70
	HSUPA Subtest-5	21.25	21.31	21.16

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Page: 10 of 121

WCDMA Band V - HSDPA / HSUPA Conducted power table (Reduced power):

	Band		WCDMA V	
	TX Channel	4132	4183	4233
	Frequency (MHz)	826.4	836.6	846.6
Max. Rated Av	g. Power+Max. Tolerance (dBm)		16.50	
3GPP Rel 99	RMC 12.2Kbps	15.13	15.14	15.23
	HSDPA Subtest-1	12.09	12.07	12.07
3GPP Rel 5	HSDPA Subtest-2	12.11	12.07	12.16
SGFF Rei S	HSDPA Subtest-3	12.08	12.12	12.12
	HSDPA Subtest-4	12.13	12.05	12.14
	HSUPA Subtest-1	12.10	12.11	12.14
	HSUPA Subtest-2	11.61	11.61	11.69
3GPP Rel 6	HSUPA Subtest-3	11.59	11.57	11.61
	HSUPA Subtest-4	11.69	11.54	11.71
	HSUPA Subtest-5	12.08	12.14	12.25

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Page: 11 of 121

LTE FDD Band 5 - conducted power table (Full power):

	Bana 5	Jonata	.ca powe	r table (F		· /-		
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted pow er (dBm)	Target Pow er + Max. Tolerance (dBm)	MPR Allow ed per 3GPP(dB)
				829	20450	24.91	25	0
			0	836.5	20525	24.93	25	0
				844	20600	24.99	25	0
				829	20450	24.95	25	0
		1 RB	25	836.5	20525	24.97	25	0
				844	20600	24.98	25	0
				829	20450	24.92	25	0
			49	836.5	20525	24.96	25	0
				844	20600	24.93	25	0
				829	20450	23.90	24	0-1
	QPSK		0	836.5	20525	23.94	24	0-1
				844	20600	23.92	24	0-1
				829	20450	23.91	24	0-1
		25 RB	12	836.5	20525	23.93	24	0-1
				844	20600	23.95	24	0-1
				829	20450	23.96	24	0-1
			25	836.5	20525	23.87	24	0-1
				844	20600	23.86	24	0-1
			-	829	20450	23.88	24	0-1
		50	RB	836.5	20525	23.91	24	0-1
10				844	20600	23.89	24	0-1
10				829	20450	23.88	24	0-1
			0	836.5	20525	23.92	24	0-1
				844	20600	23.99	24	0-1
				829	20450	23.87	24	0-1
		1 RB	25	836.5	20525	23.97	24	0-1
				844	20600	23.96	24	0-1
				829	20450	23.85	24	0-1
			49	836.5	20525	23.98	24	0-1
				844	20600	23.81	24	0-1
				829	20450	22.95	23	0-2
	16-QAM		0	836.5	20525	22.99	23	0-2
				844	20600	22.91	23	0-2
	25 RB			829	20450	22.97	23	0-2
		25 RB	12	836.5	20525	23.00	23	0-2
				844	20600	22.94	23	0-2
			829	20450	22.98	23	0-2	
			25	836.5	20525	22.94	23	0-2
			844	20600	22.86	23	0-2	
			829	20450	22.93	23	0-2	
)RB	836.5	20525	22.96	23	0-2	
				844	20600	22.91	23	0-2

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Page: 12 of 121

				FDD Band (5			
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted pow er (dBm)	Target Pow er + Max. Tolerance (dBm)	MPR Allow ed per 3GPP(dB)
				829	20450	23.98	24	0-1
			0	836.5	20525	23.90	24	0-1
				844	20600	23.90	24	0-1
				829	20450	23.77	24	0-1
		1 RB	25	836.5	20525	23.94	24	0-1
			844	20600	23.88	24	0-1	
				829	20450	23.80	24	0-1
			49	836.5	20525	23.90	24	0-1
				844	20600	23.81	24	0-1
			0	829	20450	22.85	23	0-2
10	64-QAM			836.5	20525	22.96	23	0-2
				844	20600	22.82	23	0-2
				829	20450	22.90	23	0-2
		25 RB	12	836.5	20525	22.99	23	0-2
				844	20600	22.91	23	0-2
				829	20450	22.89	23	0-2
			25	836.5	20525	22.88	23	0-2
				844	20600	22.77	23	0-2
				829	20450	22.91	23	0-2
	500)RB	836.5	20525	22.93	23	0-2	
				844	20600	22.82	23	0-2

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台灣檢驗科技股份有限公司



Page: 13 of 121

Frequency Conducted Target MPR	FDD Band 5										
BW(Mhz) Modulation RB Size RB Offset Frequency (MHz) Channel					T DD Dana (
A	BW(Mhz)	Modulation	RB Size	RB Offset		Channel	pow er	Pow er + Max. Tolerance	Allow ed per		
1 RB 12 846.5 20625 24.96 25 0 826.5 20425 24.88 25 0 826.5 20425 24.98 25 0 826.5 20425 24.98 25 0 826.5 20625 24.93 25 0 826.5 20425 24.93 25 0 826.5 20425 24.91 25 0 826.5 20425 24.91 25 0 826.5 20425 24.90 25 0 826.5 20425 24.90 25 0 826.5 20425 23.80 24 0-1 826.5 20625 23.86 24 0-1 826.5 20625 23.86 24 0-1 826.5 20625 23.86 24 0-1 826.5 20625 23.86 24 0-1 826.5 20625 23.89 24 0-1 826.5 20625 23.89 24 0-1 826.5 20625 23.89 24 0-1 826.5 20625 23.89 24 0-1 826.5 20625 23.89 24 0-1 826.5 20625 23.89 24 0-1 826.5 20625 23.92 24 0-1 826.5 20625 23.93 24 0-1 826.5 20625 23.93 24 0-1 826.5 20625 23.93 23 0-2 826.5 20625 22.99 23 0-2 826.5 20625 22.99 23 0-2 826.5 20625 22.99 23 0-2 826.5 20625 22.93 23 0-2 826.5 20625 22.93 23 0-2 826.5 20625 22.93 23 0-2 826.5					826.5	20425	24.90	25	0		
1 RB 12 826.5 20425 24.88 25 0 836.5 20525 24.96 25 0 846.5 20625 24.91 25 0 826.5 20425 24.91 25 0 826.5 20425 24.91 25 0 826.5 20525 24.92 25 0 826.5 20525 24.92 25 0 826.5 20525 24.90 25 0 826.5 20525 24.90 25 0 826.5 20525 23.80 24 0-1 826.5 20525 23.80 24 0-1 826.5 20525 23.80 24 0-1 826.5 20525 23.80 24 0-1 826.5 20525 23.80 24 0-1 826.5 20525 23.83 24 0-1 826.5 20525 23.83 24 0-1 826.5 20525 23.89 24 0-1 826.5 20525 23.89 24 0-1 826.5 20525 23.92 24 0-1 826.5 20525 23.92 24 0-1 826.5 20525 23.92 24 0-1 826.5 20525 23.99 24 0-1 826.5 20525 23.79 24 0-1 826.5 20525 23.83 24 0-1 826.5 20525 23.89 24 0-1 826.5 20525 23.89 24 0-1 826.5 20525 23.89 24 0-1 826.5 20525 23.89 24 0-1 826.5 20525 23.99 24 0-1 826.5 20525 23.99 24 0-1 826.5 20525 23.90 23 0-2 826.5 20525 23.90 23 0-2 826.5 20525 23.90 23 0-2 826.5 20525 22.90 23 0-2 826.5				0	836.5	20525	24.89	25	0		
APSK 1 RB 12 836.5 20525 24.96 24.92 24 836.5 20625 24.91 25 0 846.5 20625 24.92 25 0 846.5 20625 24.90 25 0 846.5 20625 24.90 25 0 836.5 20625 24.90 25 0 836.5 20625 24.90 25 0 836.5 20625 24.90 25 0 836.5 20625 23.80 24 0-1 846.5 20625 23.86 24 0-1 846.5 20625 23.86 24 0-1 846.5 20625 23.86 24 0-1 846.5 20625 23.89 24 0-1 846.5 20625 23.89 24 0-1 846.5 20625 23.89 24 0-1 846.5 20625 23.89 24 0-1 846.5 20625 23.89 24 0-1 846.5 20625 23.89 24 0-1 846.5 20625 23.89 24 0-1 846.5 20625 23.89 24 0-1 846.5 20625 23.89 24 0-1 846.5 20625 23.89 24 0-1 846.5 20625 23.80 24 0-1 846.5 20625 23.80 24 0-1 846.5 20625 23.80 24 0-1 846.5 20625 23.80 24 0-1 846.5 20625 23.80 24 0-1 846.5 20625 23.80 24 0-1 846.5 20625 23.80 24 0-1 846.5 20625 23.80 24 0-1 846.5 20625 23.80 24 0-1 846.5 20625 23.80 24 0-1 846.5 20625 23.80 24 0-1 846.5 20625 23.80 24 0-1 846.5 20625 23.80 24 0-1 846.5 20625 23.80 24 0-1 846.5 20625 23.80 24 0-1 846.5 20625 23.90 24 0-1 0-1 846.5 20625 23.90 24 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-					846.5	20625	24.96	25	0		
PSK Record Recor					826.5	20425	24.88	25	0		
PSK Carry			1 RB	12					0		
OPSIX OP									0		
PSK OPSK O					826.5	20425	24.91		0		
QPSK 12 RB				24			24.92		0		
PARE A PA							24.90				
\$ 846.5 20625 23.83 24					-						
12 RB		QPSK		0							
12 RB											
Second											
13			12 RB	6							
13 836.5 20525 23.79 24 0-1 846.5 20625 23.79 24 0-1 826.5 20425 23.83 24 0-1 826.5 20525 23.91 24 0-1 846.5 20525 23.91 24 0-1 846.5 20525 23.91 24 0-1 846.5 20525 23.86 24 0-1 846.5 20525 23.80 24 0-1 846.5 20525 23.80 24 0-1 846.5 20525 23.80 24 0-1 846.5 20525 23.92 24 0-1 846.5 20525 23.92 24 0-1 846.5 20525 23.92 24 0-1 846.5 20525 23.92 24 0-1 846.5 20525 23.92 24 0-1 846.5 20525 23.92 24 0-1 846.5 20525 23.92 24 0-1 846.5 20525 23.92 24 0-1 846.5 20525 23.96 24 0-1 846.5 20525 23.96 24 0-1 846.5 20525 23.87 24 0-1 846.5 20525 23.87 24 0-1 846.5 20525 23.87 24 0-1 846.5 20525 23.97 24 0-1 846.5 20525 23.97 24 0-1 846.5 20525 23.97 24 0-1 846.5 20525 23.97 24 0-1 846.5 20525 23.97 24 0-1 846.5 20525 23.97 24 0-1 846.5 20525 22.98 23 0-2 846.5 20525 22.98 23 0-2 846.5 20525 22.98 23 0-2 846.5 20525 22.99 23 0-2 846.5 20525 22.99 23 0-2 846.5 20525 22.99 23 0-2 846.5 20525 22.99 23 0-2 846.5 20525 22.99 23 0-2 846.5 20525 22.99 23 0-2 846.5 20525 22.99 23 0-2 846.5 20525 22.99 23 0-2 846.5 20525 22.99 23 0-2 846.5 20525 22.97 23 0-2 846.5 20525 22.97 23 0-2 846.5 20525 22.83 23 0-2 846.5 20525 22.83 23 0-2 846.5 20525 22.83 23 0-2 846.5 20525 22.83 23 0-2 846.5 20525 22.83 23 0-2 846.5 20525 22.83 23 0-2											
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16-QAM 1 RB 25RB 836.5 20525 23.91 24 0-1 846.5 20625 23.86 24 0-1 826.5 20425 23.80 24 0-1 836.5 20525 23.92 24 0-1 846.5 20625 23.92 24 0-1 846.5 20625 23.92 24 0-1 846.5 20625 23.92 24 0-1 826.5 20425 23.96 24 0-1 826.5 20425 23.97 24 0-1 826.5 20425 23.87 24 0-1 826.5 20425 23.87 24 0-1 826.5 20425 23.87 24 0-1 826.5 20425 23.87 24 0-1 826.5 20425 23.87 24 0-1 826.5 20425 23.87 24 0-1 826.5 20425 23.87 24 0-1 826.5 20425 23.87 24 0-1 826.5 20425 23.87 24 0-1 826.5 20425 23.87 24 0-1 826.5 20425 23.89 23 0-2 826.5 20425 22.89 23 0-2 826.5 20425 22.89 23 0-2 826.5 20425 22.89 23 0-2 826.5 20425 22.89 23 0-2 826.5 20425 22.89 23 0-2 826.5 20425 22.89 23 0-2 826.5 20425 22.89 23 0-2 826.5 20425 22.89 23 0-2 826.5 20425 22.89 23 0-2 826.5 20425 22.89 23 0-2 826.5 20425 22.89 23 0-2 826.5 20425 22.89 23 0-2 826.5 20425 22.89 23 0-2 826.5 20425 22.89 23 0-2 826.5 20425 22.89 23 0-2 826.5 20425 22.89 23 0-2 826.5 20425 22.89 23 0-2 826.5 20425 22.89 23 0-2 826.5 20425 22.87 23 0-2 826.5 20425 22.83 23 0-2 826.5 20425 22.87 23 0-2 826.5 20425 22.83 23 0-2											
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16-QAM 16-QAM 1826.5			1 RB	12							
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			25PR	RR							
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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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Page: 14 of 121

				FDD Band 5	5			
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted pow er (dBm)	Target Pow er + Max. Tolerance (dBm)	MPR Allow ed per 3GPP(dB)
				826.5	20425	23.97	24	0-1
			0	836.5	20525	23.89	24	0-1
				846.5	20625	23.90	24	0-1
				826.5	20425	23.70	24	0-1
		1 RB	12	836.5	20525	23.86	24	0-1
			846.5	20625	23.83	24	0-1	
				826.5	20425	23.79	24	0-1
			24	836.5	20525	23.87	24	0-1
				846.5	20625	23.78	24	0-1
				826.5	20425	22.76	23	0-2
5	64-QAM		0	836.5	20525	22.91	23	0-2
				846.5	20625	22.79	23	0-2
				826.5	20425	22.82	23	0-2
		12 RB	6	836.5	20525	22.90	23	0-2
				846.5	20625	22.85	23	0-2
				826.5	20425	22.81	23	0-2
			13	836.5	20525	22.80	23	0-2
				846.5	20625	22.70	23	0-2
				826.5	20425	22.84	23	0-2
	25	RB	836.5	20525	22.86	23	0-2	
				846.5	20625	22.77	23	0-2

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Page: 15 of 121

				FDD Band 5	5			
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted pow er (dBm)	Target Pow er + Max. Tolerance (dBm)	MPR Allow ed per 3GPP(dB)
				825.5	20415	24.88	25	0
			0	836.5	20525	24.85	25	0
				847.5	20635	24.94	25	0
				825.5	20415	24.83	25	0
		1 RB	7	836.5	20525	24.91	25	0
				847.5	20635	24.88	25	0
				825.5	20415	24.85	25	0
			14	836.5	20525	24.84	25	0
				847.5	20635	24.86	25	0
				825.5	20415	23.75	24	0-1
	QPSK		0	836.5	20525	23.82	24	0-1
				847.5	20635	23.78	24	0-1
				825.5	20415	23.82	24	0-1
		8 RB	4	836.5	20525	23.85	24	0-1
				847.5	20635	23.82	24	0-1
				825.5	20415	23.85	24	0-1
			7	836.5	20525	23.78	24	0-1
				847.5	20635	23.73	24	0-1
				825.5	20415	23.83	24	0-1
		15	RB	836.5	20525	23.84	24	0-1
3				847.5	20635	23.85	24	0-1
Ü				825.5	20415	23.79	24	0-1
			0	836.5	20525	23.90	24	0-1
				847.5	20635	23.92	24	0-1
				825.5	20415	23.76	24	0-1
		1 RB	7	836.5	20525	23.91	24	0-1
				847.5	20635	23.86	24	0-1
				825.5	20415	23.76	24	0-1
			14	836.5	20525	23.95	24	0-1
				847.5	20635	23.70	24	0-1
				825.5	20415	22.82	23	0-2
	16-QAM		0	836.5	20525	22.93	23	0-2
				847.5	20635	22.82	23	0-2
	8 RB		825.5	20415	22.86	23	0-2	
		4	836.5	20525	22.96	23	0-2	
			847.5	20635	22.91	23	0-2	
			825.5	20415	22.89	23	0-2	
		7	836.5	20525	22.86	23	0-2	
				847.5	20635	22.76	23	0-2
				825.5	20415	22.90	23	0-2
		15	RB	836.5	20525	22.85	23	0-2
				847.5	20635	22.79	23	0-2

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Page: 16 of 121

FDD Band 5										
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted pow er (dBm)	Target Pow er + Max. Tolerance (dBm)	MPR Allow ed per 3GPP(dB)		
				825.5	20415	23.95	24	0-1		
			0	836.5	20525	23.89	24	0-1		
				847.5	20635	23.90	24	0-1		
				825.5	20415	23.64	24	0-1		
		1 RB	7	836.5	20525	23.84	24	0-1		
			847.5	20635	23.80	24	0-1			
				825.5	20415	23.75	24	0-1		
			14	836.5	20525	23.79	24	0-1		
				847.5	20635	23.73	24	0-1		
				825.5	20415	22.71	23	0-2		
3	64-QAM		0	836.5	20525	22.88	23	0-2		
				847.5	20635	22.78	23	0-2		
				825.5	20415	22.81	23	0-2		
		8 RB	4	836.5	20525	22.85	23	0-2		
				847.5	20635	22.83	23	0-2		
				825.5	20415	22.74	23	0-2		
			7	836.5	20525	22.74	23	0-2		
				847.5	20635	22.63	23	0-2		
			- 	825.5	20415	22.77	23	0-2		
	15		RB	836.5	20525	22.85	23	0-2		
				847.5	20635	22.72	23	0-2		

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Page: 17 of 121

				FDD Band 5	5			
				DD Dana (
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted pow er (dBm)	Target Pow er + Max. Tolerance (dBm)	MPR Allow ed per 3GPP(dB)
				824.7	20407	24.82	25	0
			0	836.5	20525	24.83	25	0
				848.3	20643	24.91	25	0
				824.7	20407	24.81	25	0
		1 RB	2	836.5	20525	24.89	25	0
				848.3	20643	24.87	25	0
				824.7	20407	24.87	25	0
			5	836.5	20525	24.88	25	0
				848.3	20643	24.83	25	0
				824.7	20407	23.73	24	0-1
	QPSK		0	836.5	20525	23.75	24	0-1
				848.3	20643	23.78	24	0-1
				824.7	20407	23.75	24	0-1
		3 RB	2	836.5	20525	23.80	24	0-1
				848.3	20643	23.79	24	0-1
				824.7	20407	23.81	24	0-1
			3	836.5	20525	23.74	24	0-1
				848.3	20643	23.71	24	0-1
				824.7	20407	23.77	24	0-1
		6F	RB	836.5	20525	23.82	24	0-1
1.4				848.3	20643	23.75	24	0-1
				824.7	20407	23.70	24	0-1
			0	836.5	20525	23.85	24	0-1
				848.3	20643	23.83	24	0-1
				824.7	20407	23.73	24	0-1
		1 RB	2	836.5	20525	23.86	24	0-1
				848.3	20643	23.77	24	0-1
				824.7	20407	23.75	24	0-1
			5	836.5	20525	23.89	24	0-1
				848.3	20643	23.73	24	0-1
				824.7	20407	22.83	23	0-2
	16-QAM		0	836.5	20525	22.87	23	0-2
				848.3	20643	22.79	23	0-2
	3 RB			824.7	20407	22.80	23	0-2
		3 RB	2	836.5	20525	22.91	23	0-2
			848.3	20643	22.87	23	0-2	
			824.7	20407	22.85	23	0-2	
		3	836.5	20525	22.80	23	0-2	
				848.3	20643	22.71	23	0-2
				824.7	20407	22.84	23	0-2
		6F	RB	836.5 848.3	20525	22.77	23	0-2
			0112		20643	22.78	23	0-2

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Page: 18 of 121

FDD Band 5										
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted pow er (dBm)	Target Pow er + Max. Tolerance (dBm)	MPR Allow ed per 3GPP(dB)		
				824.7	20407	23.90	24	0-1		
			0	836.5	20525	23.78	24	0-1		
				848.3	20643	23.83	24	0-1		
				824.7	20407	23.66	24	0-1		
		1 RB	2	836.5	20525	23.77	24	0-1		
			848.3	20643	23.75	24	0-1			
				824.7	20407	23.74	24	0-1		
			5	836.5	20525	23.79	24	0-1		
				848.3	20643	23.69	24	0-1		
				824.7	20407	22.70	23	0-2		
1.4	64-QAM		0	836.5	20525	22.79	23	0-2		
				848.3	20643	22.72	23	0-2		
				824.7	20407	22.75	23	0-2		
		3 RB	2	836.5	20525	22.86	23	0-2		
				848.3	20643	22.76	23	0-2		
				824.7	20407	22.75	23	0-2		
			3	836.5	20525	22.72	23	0-2		
				848.3	20643	22.62	23	0-2		
				824.7	20407	22.79	23	0-2		
		6F	₹B	836.5	20525	22.82	23	0-2		
				848.3	20643	22.66	23	0-2		

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Page: 19 of 121

LTF FDD Band 5 conducted nower table (Reduced nower).

LIE FUU	Band 5 -	conduct	ea powe			oower):		
				FDD Band (5			
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted pow er (dBm)	Target Pow er + Max. Tolerance (dBm)	MPR Allow ed per 3GPP(dB)
				829	20450	16.27	16.5	0
			0	836.5	20525	16.20	16.5	0
				844	20600	16.37	16.5	0
				829	20450	16.33	16.5	0
		1 RB	25	836.5	20525	16.36	16.5	0
				844	20600	16.39	16.5	0
				829	20450	16.38	16.5	0
			49	836.5	20525	16.34	16.5	0
				844	20600	16.28	16.5	0
				829	20450	16.03	16.5	0-1
	QPSK		0	836.5	20525	16.04	16.5	0-1
				844	20600	16.07	16.5	0-1
				829	20450	15.96	16.5	0-1
		25 RB	12	836.5	20525	16.07	16.5	0-1
				844	20600	16.08	16.5	0-1
				829	20450	16.05	16.5	0-1
			25	836.5	20525	15.99	16.5	0-1
				844	20600	16.02	16.5 16.5 16.5	0-1
				829	20450	16.02		0-1
		50	RB	836.5	20525	16.06		0-1
10				844	20600	15.99	16.5	0-1
				829	20450	16.27	16.5	0-1
			0	836.5	20525	16.29	16.5	0-1
				844	20600	16.35	16.5	0-1
		4.55	0.5	829	20450	16.35	16.5	0-1
		1 RB	25	836.5	20525	16.33	16.5	0-1
				844	20600	16.29	16.5	0-1
			49	829 836.5	20450	16.36	16.5	0-1
			49		20525	16.32	16.5	0-1
				844	20600	16.22	16.5	0-1
	16 00 14			829	20450	16.13	16.5	0-2
	16-QAM		0	836.5	20525 20600	16.16	16.5	0-2
				844		16.17 16.16	16.5	0-2
		25 DD	10	829	20450 20525		16.5	0-2
		25 RB	12	836.5		16.17	16.5	0-2
				844 829	20600 20450	16.16	16.5 16.5	0-2 0-2
			25	836.5	20450	16.15 16.14	16.5	0-2
			20	844	20600	16.14	16.5	0-2
			829	20450	16.12	16.5	0-2	
		500R	NPR	836.5	20450	16.13	16.5	0-2
		300	טאוע	844	20600	16.16	16.5	0-2
			-	044	∠∪000	10.16	10.5	0-2

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Page: 20 of 121

FDD Band 5										
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted pow er (dBm)	Target Pow er + Max. Tolerance (dBm)	MPR Allow ed per 3GPP(dB)		
				829	20450	16.26	16.5	0-1		
			0	836.5	20525	16.27	16.5	0-1		
				844	20600	16.33	16.5	0-1		
				829	20450	16.34	16.5	0-1		
		1 RB	25	836.5	20525	16.32	16.5	0-1		
			844	20600	16.29	16.5	0-1			
				829	20450	16.31	16.5	0-1		
			49	836.5	20525	16.31	16.5	0-1		
				844	20600	16.20	16.5	0-1		
			0	829	20450	16.13	16.5	0-2		
10	64-QAM			836.5	20525	16.15	16.5	0-2		
				844	20600	16.12	16.5	0-2		
				829	20450	16.14	16.5	0-2		
		25 RB	12	836.5	20525	16.15	16.5	0-2		
				844	20600	16.16	16.5	0-2		
				829	20450	16.14	16.5	0-2		
			25	836.5	20525	16.11	16.5	0-2		
				844	20600	16.08	16.5	0-2		
				829	20450	16.09	16.5	0-2		
	500)RB	836.5	20525	16.16	16.5	0-2			
				844	20600	16.11	16.5	0-2		

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Page: 21 of 121

				FDD Band 5	5			
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted pow er (dBm)	Target Pow er + Max. Tolerance (dBm)	MPR Allow ed per 3GPP(dB)
				826.5	20425	16.22	16.5	0
			0	836.5	20525	16.15	16.5	0
				846.5	20625	16.33	16.5	0
				826.5	20425	16.29	16.5	0
		1 RB	12	836.5	20525	16.34	16.5	0
				846.5	20625	16.35	16.5	0
				826.5	20425	16.36	16.5	0
			24	836.5	20525	16.31	16.5	0
				846.5	20625	16.24	16.5	0
				826.5	20425	15.98	16.5	0-1
	QPSK		0	836.5	20525	16.03	16.5	0-1
				846.5	20625	16.05	16.5	0-1
				826.5	20425	15.96	16.5	0-1
		12 RB	6	836.5	20525	16.04	16.5	0-1
				846.5	20625	16.06	16.5	0-1
				826.5	20425	16.01	16.5	0-1
			13	836.5	20525	15.98	16.5	0-1
				846.5	20625	15.97	16.5	0-1
				826.5	20425	16.01	16.5	0-1
		25RB		836.5	20525	16.05	16.5	0-1
5				846.5	20625	15.98	16.5	0-1
Ü			0	826.5	20425	16.24	16.5	0-1
				836.5	20525	16.25	16.5	0-1
				846.5	20625	16.31	16.5	0-1
				826.5	20425	16.33	16.5	0-1
		1 RB	12	836.5	20525	16.30	16.5	0-1
				846.5	20625	16.28	16.5	0-1
				826.5	20425	16.35	16.5	0-1
			24	836.5	20525	16.32	16.5	0-1
				846.5	20625	16.19	16.5	0-1
				826.5	20425	16.11	16.5	0-2
	16-QAM		0	836.5	20525	16.15	16.5	0-2
				846.5	20625	16.16	16.5	0-2
				826.5	20425	16.13	16.5	0-2
		12 RB	6	836.5	20525	16.16	16.5	0-2
				846.5	20625	16.14	16.5	0-2
				826.5	20425	16.11	16.5	0-2
			13	836.5	20525	16.12	16.5	0-2
				846.5	20625	16.09	16.5	0-2
				826.5	20425	16.10	16.5	0-2
		25	RB	836.5	20525	16.17	16.5	0-2
				846.5	20625	16.12	16.5	0-2

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Page: 22 of 121

				FDD Band 5	5			
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted pow er (dBm)	Target Pow er + Max. Tolerance (dBm)	MPR Allow ed per 3GPP(dB)
				826.5	20425	16.25	16.5	0-1
			0	836.5	20525	16.25	16.5	0-1
				846.5	20625	16.29	16.5	0-1
				826.5	20425	16.32	16.5	0-1
	1 RB	12	836.5	20525	16.29	16.5	0-1	
		64-QAM		846.5	20625	16.28	16.5	0-1
			24	826.5	20425	16.31	16.5	0-1
				836.5	20525	16.27	16.5	0-1
				846.5	20625	16.17	16.5	0-1
			0	826.5	20425	16.09	16.5	0-2
5	64-QAM			836.5	20525	16.10	16.5	0-2
				846.5	20625	16.12	16.5	0-2
				826.5	20425	16.12	16.5	0-2
		12 RB	6	836.5	20525	16.13	16.5	0-2
				846.5	20625	16.14	16.5	0-2
			·	826.5	20425	16.13	16.5	0-2
			13	836.5	20525	16.09	16.5	0-2
				846.5	20625	16.05	16.5	0-2
				826.5	20425	16.07	16.5	0-2
		25	RB	836.5	20525	16.16	16.5	0-2
				846.5	20625	16.08	16.5	0-2

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Page: 23 of 121

				FDD Band 5	5			
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted pow er (dBm)	Target Pow er + Max. Tolerance (dBm)	MPR Allow ed per 3GPP(dB)
				825.5	20415	16.23	16.5	0
			0	836.5	20525	16.19	16.5	0
				847.5	20635	16.36	16.5	0
				825.5	20415	16.33	16.5	0
		1 RB	7	836.5	20525	16.33	16.5	0
				847.5	20635	16.38	16.5	0
				825.5	20415	16.34	16.5	0
			14	836.5	20525	16.32	16.5	0
				847.5	20635	16.27	16.5	0
				825.5	20415	16.01	16.5	0-1
	QPSK		0	836.5	20525	16.01	16.5	0-1
				847.5	20635	16.04	16.5	0-1
				825.5	20415	15.94	16.5	0-1
		8 RB	4	836.5	20525	16.06	16.5	0-1
				847.5	20635	16.08	16.5	0-1
				825.5	20415	16.04	16.5	0-1
			7	836.5	20525	15.95	16.5	0-1
				847.5	20635	16.01	16.5	0-1
		15RB		825.5	20415	16.00	16.5	0-1
				836.5	20525	16.03	16.5	0-1
3				847.5	20635	15.96	16.5	0-1
Ŭ			0	825.5	20415	16.24	16.5	0-1
				836.5	20525	16.25	16.5	0-1
				847.5	20635	16.33	16.5	0-1
				825.5	20415	16.30	16.5	0-1
		1 RB	7	836.5	20525	16.29	16.5	0-1
				847.5	20635	16.25	16.5	0-1
				825.5	20415	16.32	16.5	0-1
			14	836.5	20525	16.31	16.5	0-1
				847.5	20635	16.19	16.5	0-1
				825.5	20415	16.11	16.5	0-2
	16-QAM		0	836.5	20525	16.12	16.5	0-2
				847.5	20635	16.14	16.5	0-2
				825.5	20415	16.13	16.5	0-2
		8 RB	4	836.5	20525	16.13	16.5	0-2
				847.5	20635	16.12	16.5	0-2
			825.5	20415	16.13	16.5	0-2	
			7	836.5	20525	16.10	16.5	0-2
			847.5	20635	16.10	16.5	0-2	
				825.5	20415	16.11	16.5	0-2
		15	RB	836.5	20525	16.15	16.5	0-2
				847.5	20635	16.12	16.5	0-2

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Page: 24 of 121

				FDD Band (5			
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted pow er (dBm)	Target Pow er + Max. Tolerance (dBm)	MPR Allow ed per 3GPP(dB)
				825.5	20415	16.26	16.5	0-1
			0	836.5	20525	16.23	16.5	0-1
				847.5	20635	16.32	16.5	0-1
				825.5	20415	16.34	16.5	0-1
	1 RB	7	836.5	20525	16.31	16.5	0-1	
				847.5	20635	16.25	16.5	0-1
				825.5	20415	16.27	16.5	0-1
		4-QAM	14	836.5	20525	16.30	16.5	0-1
				847.5	20635	16.16	16.5	0-1
			0	825.5	20415	16.08	16.5	0-2
3	64-QAM			836.5	20525	16.14	16.5	0-2
				847.5	20635	16.11	16.5	0-2
				825.5	20415	16.14	16.5	0-2
		8 RB	4	836.5	20525	16.14	16.5	0-2
				847.5	20635	16.13	16.5	0-2
				825.5	20415	16.14	16.5	0-2
			7	836.5	20525	16.08	16.5	0-2
				847.5	20635	16.07	16.5	0-2
				825.5	20415	16.07	16.5	0-2
		15	RB	836.5	20525	16.12	16.5	0-2
				847.5	20635	16.11	16.5	0-2

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Page: 25 of 121

				FDD Band 5	5			
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted pow er (dBm)	Target Pow er + Max. Tolerance (dBm)	MPR Allow ed per 3GPP(dB)
				824.7	20407	16.24	16.5	0
			0	836.5	20525	16.17	16.5	0
				848.3	20643	16.33	16.5	0
				824.7	20407	16.33	16.5	0
		1 RB	2	836.5	20525	16.34	16.5	0
				848.3	20643	16.36	16.5	0
				824.7	20407	16.33	16.5	0
			5	836.5	20525	16.34	16.5	0
				848.3	20643	16.25	16.5	0
				824.7	20407	16.00	16.5	0-1
	QPSK		0	836.5	20525	16.03	16.5	0-1
		3 RB		848.3	20643	16.02	16.5	0-1
				824.7	20407	15.95	16.5	0-1
			2	836.5	20525	16.06	16.5	0-1
				848.3	20643	16.06	16.5	0-1
				824.7	20407	16.03	16.5	0-1
			3	836.5	20525	15.98	16.5	0-1
				848.3	20643	16.01	16.5	0-1
		6RB		824.7	20407	16.00	16.5	0-1
				836.5	20525	16.04	16.5	0-1
1.4				848.3	20643	15.96	16.5	0-1
1.4				824.7	20407	16.26	16.5	0-1
			0	836.5	20525	16.25	16.5	0-1
				848.3	20643	16.32	16.5	0-1
				824.7	20407	16.32	16.5	0-1
		1 RB	2	836.5	20525	16.28	16.5	0-1
				848.3	20643	16.29	16.5	0-1
				824.7	20407	16.32	16.5	0-1
			5	836.5	20525	16.27	16.5	0-1
				848.3	20643	16.17	16.5	0-1
				824.7	20407	16.10	16.5	0-2
	16-QAM		0	836.5	20525	16.16	16.5	0-2
				848.3	20643	16.12	16.5	0-2
				824.7	20407	16.15	16.5	0-2
		3 RB	2	836.5	20525	16.16	16.5	0-2
				848.3	20643	16.15	16.5	0-2
				824.7	20407	16.12	16.5	0-2
			3	836.5	20525	16.11	16.5	0-2
				848.3	20643	16.09	16.5	0-2
				824.7	20407	16.13	16.5	0-2
		6F	RB	836.5	20525	16.15	16.5	0-2
				848.3	20643	16.11	16.5	0-2

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Page: 26 of 121

				FDD Band (5			
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted pow er (dBm)	Target Pow er + Max. Tolerance (dBm)	MPR Allow ed per 3GPP(dB)
				824.7	20407	16.23	16.5	0-1
			0	836.5	20525	16.23	16.5	0-1
				848.3	20643	16.29	16.5	0-1
				824.7	20407	16.33	16.5	0-1
	1 RB	2	836.5	20525	16.30	16.5	0-1	
				848.3	20643	16.27	16.5	0-1
				824.7	20407	16.29	16.5	0-1
			5	836.5	20525	16.27	16.5	0-1
				848.3	20643	16.17	16.5	0-1
		64-QAM	0	824.7	20407	16.12	16.5	0-2
1.4	64-QAM			836.5	20525	16.14	16.5	0-2
				848.3	20643	16.09	16.5	0-2
				824.7	20407	16.14	16.5	0-2
		3 RB	2	836.5	20525	16.13	16.5	0-2
				848.3	20643	16.16	16.5	0-2
				824.7	20407	16.09	16.5	0-2
			3	836.5	20525	16.10	16.5	0-2
				848.3	20643	16.04	16.5	0-2
				824.7	20407	16.06	16.5	0-2
		6F	RB	836.5	20525	16.11	16.5	0-2
				848.3	20643	16.09	16.5	0-2

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Page: 27 of 121

WLAN802.11 a/b/g/n(20M)/ac(20M/40M/80M) conducted power table :

Full power:

WIFI/BT										
VVII I/DI										
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)				
		1	2412		12.50	12.23				
	802.11b	6	2437	1Mbps	12.50	12.16				
		11	2462		14.50	14.36				
		1	2412		19.00	18.79				
2450 MHz	802.11g	6	2437	6Mbps	19.00	18.59				
		11	2462		18.00	17.57				
		1	2412		19.00	18.71				
	802.11n20-HT0	6	2437	MCS0	19.00	18.50				
		11	2462		17.50	17.44				

	WIFI/BT									
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)				
		36	5180		19.00	18.98				
	802.11a	44	5220	6Mbps	19.00	18.80				
		48	5240		19.00	18.97				
	802.11n20-HT0	36	5180		19.00	18.97				
		44	5220	MCS0	19.00	18.61				
		48	5240		19.00	18.98				
5.15-5.25 GHz		36	5180		19.00	18.61				
0.10-0.20 0112	802.11ac20-VHT0	44	5220	MCS0	19.00	18.55				
		48	5240		19.00	18.86				
	802.11n40-HT0	38	5190	MCS0	12.50	12.31				
	002.111140-1110	46	5230	MCSO	19.00	18.45				
	802.11ac40-VHT0	38	5190	MCS0	12.50	12.17				
		46	5230	IVICOU	19.00	18.33				
	802.11ac80-VHT0	42	5210	MCS0	11.50	11.49				

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Page: 28 of 121

	WIFI/BT									
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)				
		52	5260		19.00	18.96				
	802.11a	60	5300	6Mbps	19.00	18.22				
		64	5320		19.00	18.86				
		52	5260		19.00	18.94				
	802.11n20-HT0	60	5300	MCS0	19.00	18.27				
		64	5320		19.00	18.75				
5.25-5.35 GHz		52	5260		19.00	18.90				
0.23-3.33 GHZ	802.11ac20-VHT0	60	5300	MCS0	19.00	18.06				
		64	5320		19.00	18.62				
	802.11n40-HT0	54	5270	MCS0	19.00	18.76				
	002.111140-1110	62	5310	IVICOU	14.50	14.29				
	802.11ac40-VHT0	54	5270	MCS0	19.00	18.67				
	002.11a040-VN10	62	5310	MICSU	14.50	14.16				
	802.11ac80-VHT0	58	5290	MCS0	13.00	12.66				

		W	/IFI/BT			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		100	5500		19.00	18.95
	802.11a	116	5580	6Mbps	19.00	18.98
	002.11a	140	5700	Olvibps	19.00	18.63
		144	5720		19.00	18.99
		100	5500		19.00	18.96
	802.11n20-HT0	116	5580	MCS0	19.00	18.99
	802.11N20-H10	140	5700	WCSU	19.00	18.51
		144	5720		19.00	18.98
	802.11ac20-VHT0	100	5500		19.00	18.85
		116	5580	MCS0	19.00	18.93
		140	5700		19.00	18.49
5600 MHz		144	5720		19.00	18.94
		102	5510		15.50	15.12
	802.11n40-HT0	110	5550	MCS0	19.00	18.70
	002.111140-1110	134	5670	MCSU	19.00	18.62
		142	5710		19.00	18.98
		102	5510		15.00	14.99
	802.11ac40-VHT0	110	5550	MCS0	19.00	18.67
	002.11ac40-V1110	134	5670	MCSU	19.00	18.55
		142	5710		19.00	18.95
		106	5530		14.00	13.54
	802.11ac80-VHT0	122	5610	MCS0	19.00	18.98
		138	5690		19.00	18.96

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Page: 29 of 121

Reduced power:

	WIFI/BT										
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)					
		1	2412		11.50	11.30					
	802.11b	6	2437	1Mbps	11.50	11.47					
		11	2462		11.50	11.33					
		1	2412		11.50	11.21					
2450 MHz	802.11g	6	2437	6Mbps	11.50	11.29					
		11	2462		11.50	11.32					
		1	2412		11.50	11.36					
	802.11n20-HT0	6	2437	MCS0	11.50	11.40					
		11	2462		11.50	11.41					

	WIFI/BT									
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)				
		36	5180		7.50	7.06				
	802.11a	44	5220	6Mbps	7.50	7.13				
		48	5240		7.50	7.09				
	802.11n20-HT0	36	5180		7.50	7.20				
		44	5220	MCS0	7.50	7.24				
		48	5240		7.50	7.33				
5.15-5.25 GHz		36	5180		7.50	7.36				
0.10-0.20 0112	802.11ac20-VHT0	44	5220	MCS0	7.50	7.15				
		48	5240		7.50	7.37				
	802.11n40-HT0	38	5190	MCS0	7.50	7.13				
	002.111140-1110	46	5230	WCCO	7.50	7.45				
	802.11ac40-VHT0	38	5190	MCS0	7.50	7.27				
	002.11a040=V1110	46	5230	WCSU	7.50	7.21				
	802.11ac80-VHT0	42	5210	MCS0	7.50	7.43				

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Page: 30 of 121

WIFI/BT									
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)			
		52	5260		7.50	7.11			
	802.11a	60	5300	6Mbps	7.50	7.38			
		64	5320		7.50	7.40			
	802.11n20-HT0	52	5260		7.50	7.46			
		60	5300	MCS0	7.50	7.33			
		64	5320		7.50	7.31			
5.25-5.35 GHz	802.11ac20-VHT0	52	5260		7.50	7.22			
0.23-3.33 GHZ		60	5300	MCS0	7.50	7.26			
		64	5320		7.50	7.23			
	802.11n40-HT0	54	5270	MCS0	7.50	7.30			
	002.111140-1110	62	5310	MCSU	7.50	7.37			
	902 44cc40 \/\ ITO	54	5270	MCS0	7.50	7.25			
	802.11ac40-VHT0	62	5310	IVICOU	7.50	7.28			
	802.11ac80-VHT0	58	5290	MCS0	7.50	7.40			

	WIFI/BT								
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)			
		100	5500		7.50	7.44			
	802.11a	116	5580	6Mbps	7.50	7.37			
	002.114	140	5700	Olvibps	7.50	7.10			
		144	5720		7.50	7.34			
		100	5500		7.50	7.27			
	802.11n20-HT0	116	5580	MCS0	7.50	7.21			
		140	5700	IVICOU	7.50	7.15			
		144	5720		7.50	7.17			
	802.11ac20-VHT0	100	5500		7.50	7.26			
		116	5580	MCS0	7.50	7.39			
		140	5700	WOOO	7.50	7.41			
5600 MHz		144	5720		7.50	7.32			
		102	5510		7.50	7.09			
	802.11n40-HT0	110	5550	MCS0	7.50	7.12			
	002.111140-1110	134	5670	IVICOU	7.50	7.04			
		142	5710		7.50	7.31			
		102	5510		7.50	7.36			
	802.11ac40-VHT0	110	5550	MCS0	7.50	7.06			
	002.11a040-VIII0	134	5670	IVICOU	7.50	7.18			
		142	5710		7.50	7.22			
		106	5530		7.50	7.33			
	802.11ac80-VHT0	122	5610	MCS0	7.50	7.45			
		138	5690		7.50	7.49			

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Page: 31 of 121

Bluetooth conducted power table:

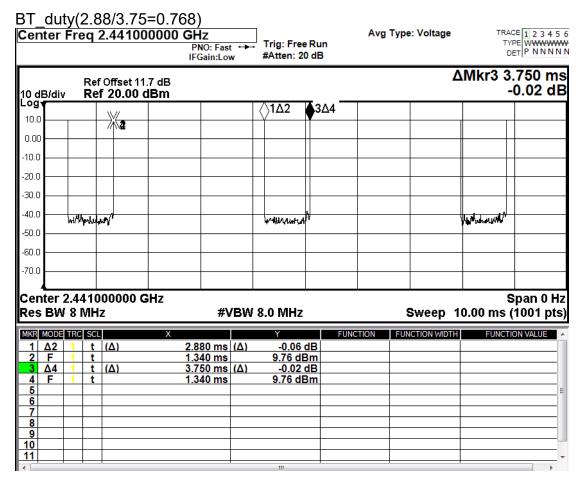
Bidetootii conducted power table:											
Mode	Channel		nel Frequency (MHz)		Average power (dBm)					Max. Rated Avg.	
						1Mbps	2Mbps	3	Mbps	Tolerance (dBm)	
	CH 00		2	402		8.57	8.36		8.38		
BR/EDR	CH 39 CH 78					8.91	8.58		8.60	9.50	
						9.18	8.78		8.80		
			Freque		ncy			FSK			
Mode		Channel '		(MHz)		Max. Rated Avg.Power + Max. Tolerance (dBm)			Average	Average Output Power (dBm)	
LE		CH 00 CH 19		2402	402		Ì		4.14		
				CH		CH 19 24		2442	2	5	
		CH	CH 39 24)	1			4.99		

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Page: 32 of 121

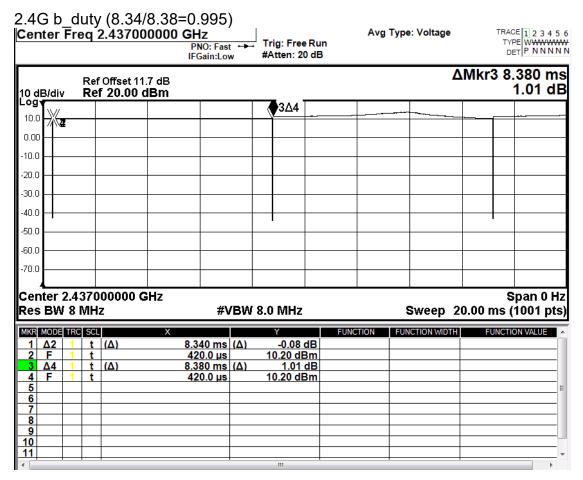


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Page: 33 of 121

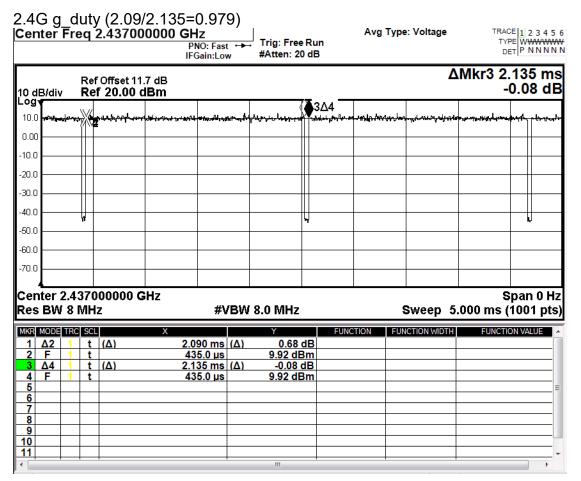


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Page: 34 of 121

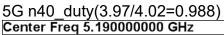


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Page: 35 of 121

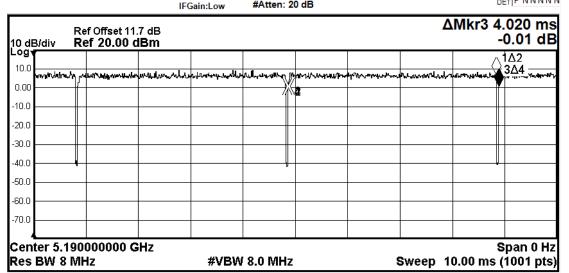


PNO: Fast

Trig: Free Run #Atten: 20 dB

Avg Type: Voltage

TRACE 1 2 3 4 5 6
TYPE WWWWWWW
DET P NNNNN



MKR	MODE	TRC	SCL	. X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	_
1	Δ2	1	t	(Δ) 3.970 n	ns (Δ) 6.04 dB				
2	F	1	t	4.860 n					
3	Δ4	1	t	(Δ) 4.020 n	ns (Δ) -0.01 dB				
4	F	1	t	4.860 n	ns 0.49 dBm				
5									Ξ
6									
7									
8									
9									
10									
11									+
4				•		1			

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Page: 36 of 121

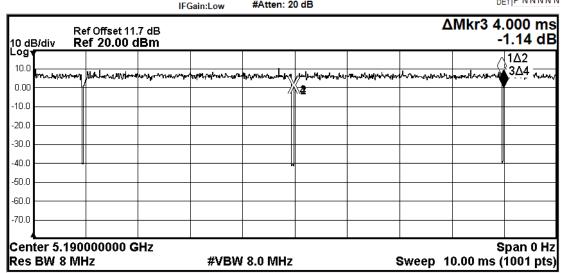
5G ac40_duty(3.96/4.00=0.990) Center Freq 5.190000000 GHz

PNO: Fast

Trig: Free Run #Atten: 20 dB

Avg Type: Voltage

TRACE 1 2 3 4 5 6
TYPE WWWWWW
DET P N N N N N



MKR	MODE	TRC	SCL	X	Υ	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	^
1	Δ2	1	t	(Δ) 3.960 ms	(Δ) 5.71 dB				
2	F	1	t	4.980 ms					
3	Δ4	1	t	(Δ) 4.000 ms	(Δ) -1.14 dB				
4	F	1	t	4.980 ms	1.07 dBm				ш
5									Ξ
6									
_ 7									
8									
9									ш
10									
11									+
4					""				

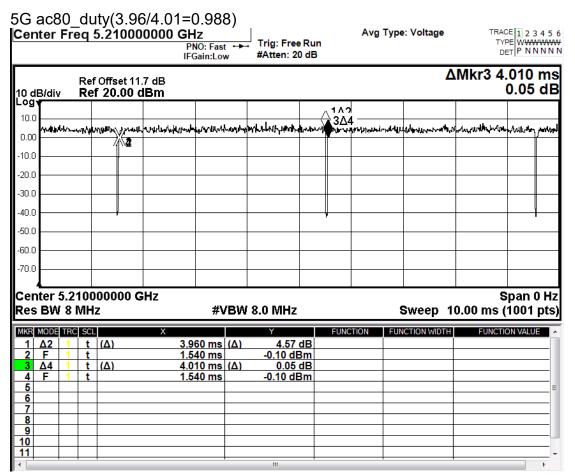
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Page: 38 of 121

1.4 Test Environment

Ambient Temperature: 22±2° C Tissue Simulating Liquid: 22±2° C

1.5 Operation Description

For WWAN, the EUT is controlled by using a Radio Communication Tester, and the communication between the EUT and the tester is established by air link. For WLAN, using chipset specific software to control the EUT, and makes it transmit in maximum power. The EUT is set to maximum power level during all tests, and at the beginning of each test the battery is fully charged. For WWAN/WLAN, the device used the proximity sensor collocated with WWAN/WLAN antennas to reduce maximum output power.

WCDMA B V / LTE B5 / WLAN

Back/top_0mm with reduced power
Back_11mm / top_7mm / edges_0mm with full power

Note:

802.11b DSSS SAR Test Requirements:

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

802.11g/n OFDM SAR Test Exclusion Requirements:

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

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Page: 39 of 121

Initial Test Configuration:

- 4. An initial test configuration is determined for OFDM transmission modes according to the channel bandwidth, modulation and data rate combination(s) with the highest maximum output power specified for production units in each standalone and aggregated frequency band.
- 5. SAR is measured using the highest measured maximum output power channel. When the reported SAR of the initial test configuration is > 0.8 W/kg, SAR measurement is required for the subsequent next highest measured output power channel(s) in the initial test configuration until the reported SAR is ≤ 1.2 W/kg or all required channels are tested.
- 6. When 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 required for subsequent test configuration.
- 7. BT and WLAN use the same antenna path, but they can't transmit at the same time.
- 8. According to KDB447498 D01, testing of other required channels is not required when the reported 1-g SAR for the highest output channel is \leq 0.8 W/kg, when the transmission band is \leq 100 MHz.
- 9. According to KDB865664 D01, SAR measurement variability must be assessed for each frequency band. When the original highest measured SAR is ≥ 0.8 W/kg, repeated that measurement once. Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/kg (~10% from the 1-g SAR limit)

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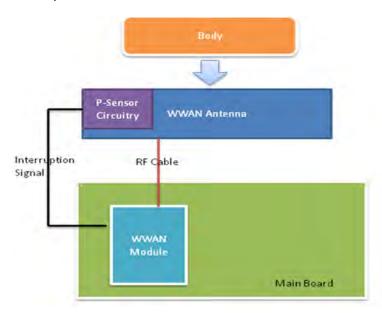
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Page: 40 of 121

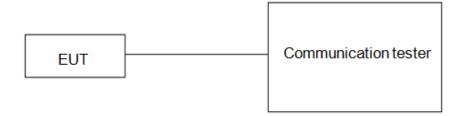
1.6 Proximity sensor operation description

The P-sensor being used to reduce output power is capacitive in which when the object such as human body, metal or plastic is being approached, the sensing capacitance would be increased with the antenna pad. Once the capacitance is accumulated, and reached over the threshold as set in MCU of the microchip, the interruption signal is pulled low (High state without trigger) and further inform modem module of the transmitter to make power reduction.



1.6.1 Proximity sensor measurement procedure

- 1. The proximity sensors are collocated with WWAN/WLAN antennas.
- 2. Output power is measured, and monitored by using the communication tester. A RF cables with sufficient length was being attached from the antenna port of the module, and used for the measurement. The appropriate loss attenuated from cable is compensated in the communication tester.



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Page: 41 of 121

1.6.2 Trigger distances for back/top side

Test procedure:

- 1. The entire back surface or edge of the tablet is positioned below a flat phantom filled with the required tissue equivalent medium and positioned at least 20 mm further than the distance that triggers power reduction.
- 2. The back surface or edge is moved toward the phantom in 3 mm steps until the sensor triggers.
- 3. The back surface or edge is then moved back (further away) from the phantom until maximum output power is returned to the normal maximum level.
- 4. The back surface or edge is again moved toward the phantom, but in 1 mm steps, until it is at least 5 mm past the triggering point or touching the phantom
- 5. If the tablet is not touching the phantom, it is moved in 3 mm steps until it touches the phantom to confirm that the sensor remains triggered and the maximum power stays reduced.
- 6. The process is then reversed by moving the tablet away from the phantom to determine triggering release, until it is at least 10 mm beyond the point that triggers the return of normal maximum power.
- 7. The measured output power within ± 5 mm of the triggering points, or until the tablet is touching the phantom, for movements to and from the phantom should be tabulated.
- 8. To ensure all production units are compliant, it is generally necessary to reduce the triggering distance determined from the triggering tests by 1 mm, or more if it is necessary, and use the smallest distance for movements to and from the phantom, minus 1 mm, as the sensor triggering distance for determining the SAR measurement distance.
- 9. For backside of WWAN/WLAN antennas, the trigger distance of proximity sensor is 12mm.
- 10. For top side of WWAN/WLAN antennas, the trigger distance of proximity sensor is 8mm, and we perform the 1.6.3 tilt angle testing in next step.

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Page: 42 of 121

1.6.3 Tilt angle testing

Test procedure:

- 1. The influence of table tilt angles to proximity sensor triggering is determined by positioning each tablet edge that contains a transmitting antenna, perpendicular to the flat phantom, at the smallest sensor triggering test distance determined in sections 1.6.2 by rotating the tablet around the edge next to the phantom in ≤ 10 deg increments until the tablet is +/- 45deg or more from the vertical position at 0 deg.
- 2. If sensor triggering is released and normal maximum output power is restored within the +/- 45deg range, the procedures in step 1) should be repeated by reducing the tablet to phantom separation distance by 1 mm until the proximity sensor no longer releases triggering, and maximum output power remains in the reduced mode.
- 3. The smallest separation distance determined in steps 1) and 2), minus 1 mm, is the sensor triggering distance for tablet tilt coverage. The smallest separation distance determined in sections 1.6.2, 1.6.3 minus 1 mm should be used in the SAR measurements.
- 4. The influence of tablet tilt angles to proximity sensor triggering is determined by positioning top side, please refer to table 1.6.5 and 1.6.6.
- After the tilt angle testing for top side on WWAN/WLAN antennas, the sensor is not released during +/- 45deg, so 8-1=7mm is used for WWAN SAR measurement on top side.

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Page: 43 of 121

1.6.4 Proximity sensor coverage

The following procedures do not apply and are not required for configurations where the antenna and sensor are collocated and the peak SAR location is overlapping with the sensor.

Test procedure:

- The back surface or edges of the tablet is positioned at a test separation distance less than or equal to the distance required for back surface or edge triggering, with both the antenna and sensor pad located at least 20 mm laterally outside the edge (boundary) of the phantom, along the direction of maximum antenna and sensor offset.
- 2. The similar sequence of steps applied to determine sensor triggering distance in section 1.6.2 are used to verify back surface and edge sensor coverage by moving the tablet (sensor and antenna) horizontally toward the phantom while maintaining the same vertical separation between the back surface or edge and the phantom.
- 3. After the exact location where triggering of power reduction is determined, with respect to the sensor and antenna, the tablet movement should be continued, in 3 mm increments, until both the sensor and antenna(s) are fully under the phantom and at least 20 mm inside the phantom edge.
- 4. The process is then repeated from the other direction, at the opposite end of maximum antenna and sensor offset, by rotating the tablet 180 degrees.

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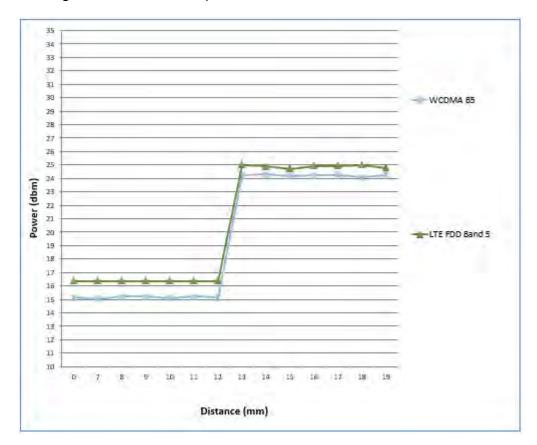
Page: 44 of 121

1.6.5 Results

The measured output power within \pm 5 mm of the triggering points, or until the tablet is touching the phantom, for movements to and from the phantom is tabulated in the following.

Back side

Moving device toward the phantom



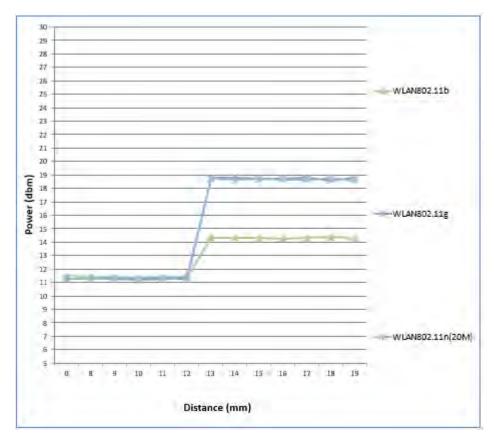
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Page: 45 of 121

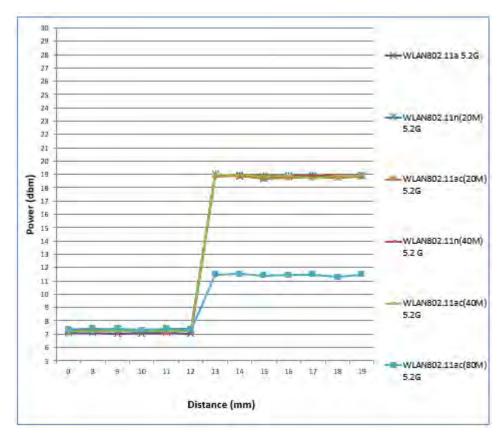


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Page: 46 of 121

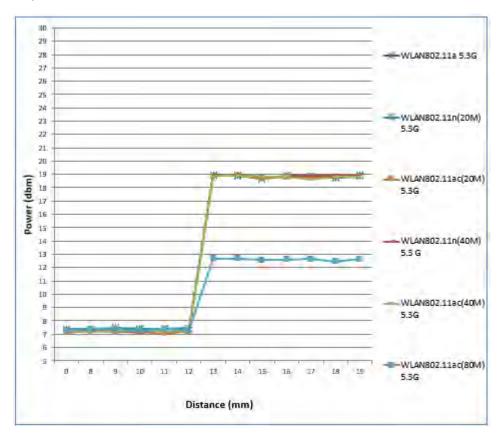


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Page: 47 of 121

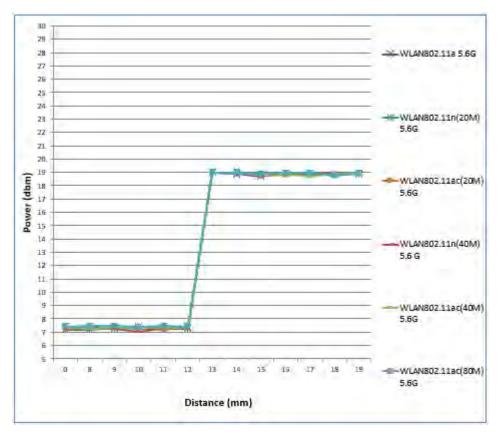


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Page: 48 of 121



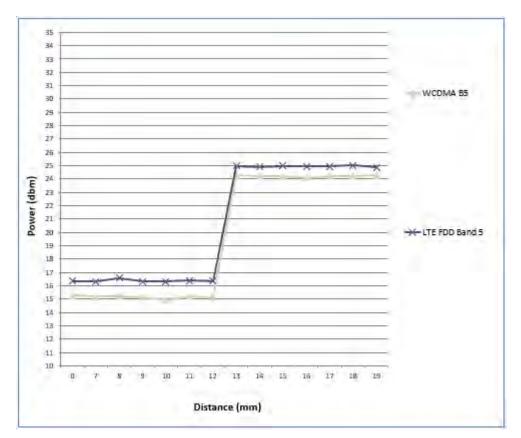
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Page: 49 of 121

Moving device away from the phantom

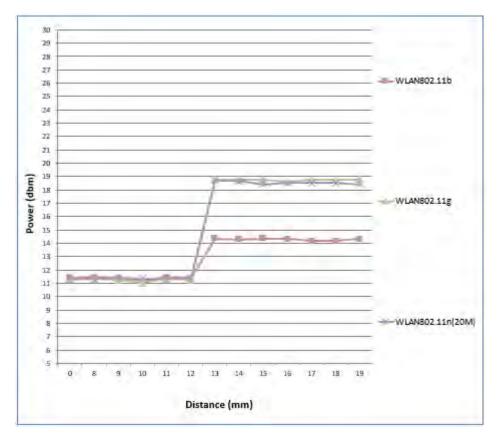


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Page: 50 of 121

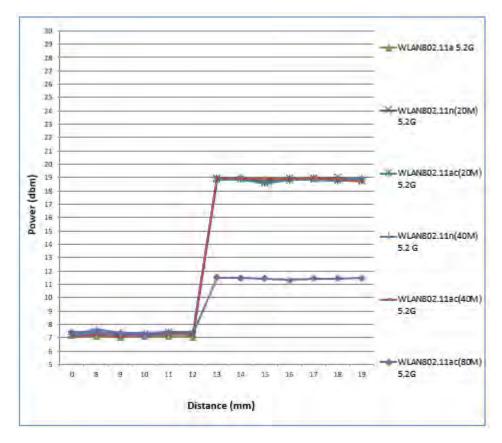


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Page: 51 of 121

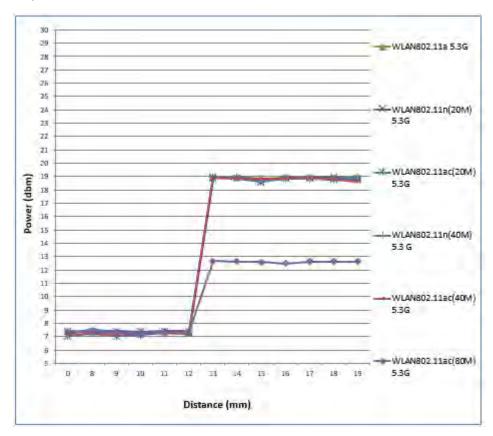


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Page: 52 of 121

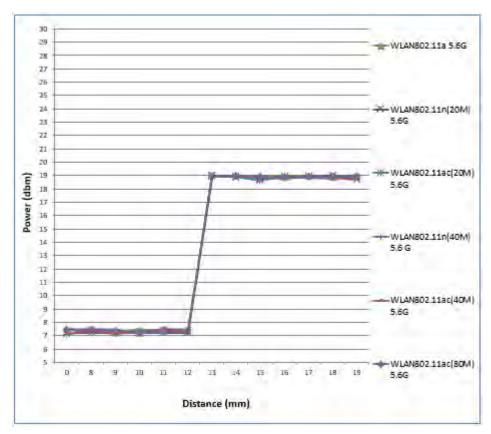


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Page: 53 of 121



For WWAN/WLAN back side, the worst trigger distance of proximity sensor is 12mm, and we test backside SAR in 11mm with full power and 0mm with reduced power.

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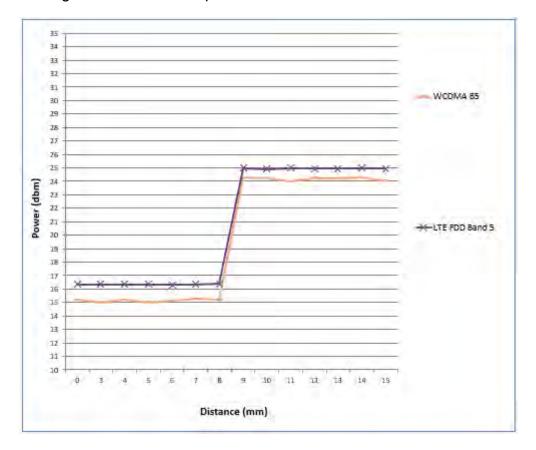
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Page: 54 of 121

Top side

Moving device toward the phantom



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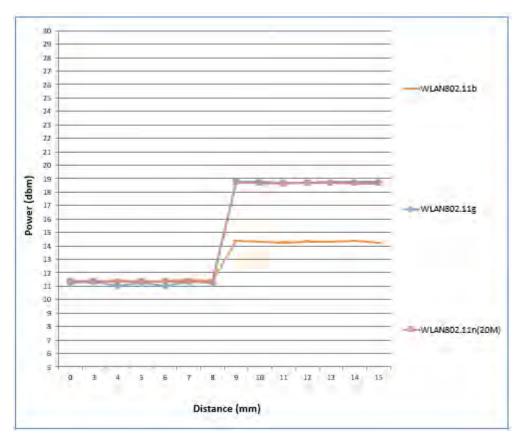
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Page: 55 of 121



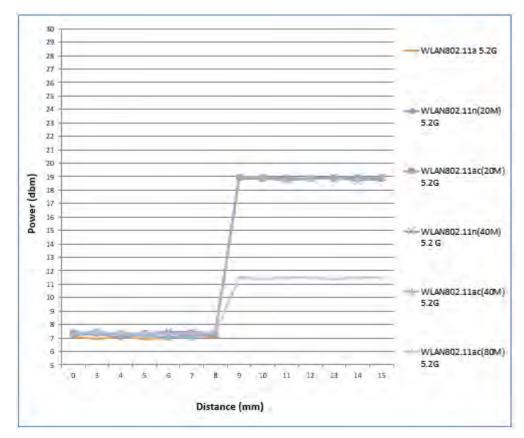
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Page: 56 of 121



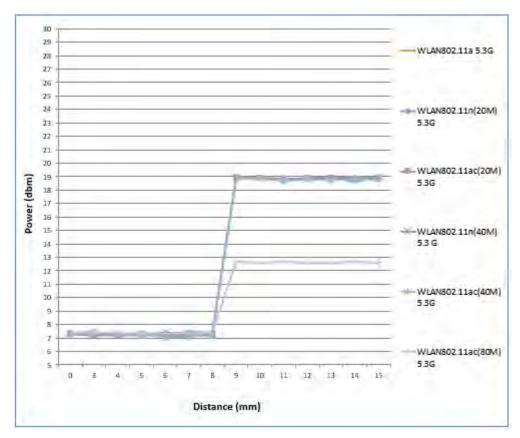
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Page: 57 of 121

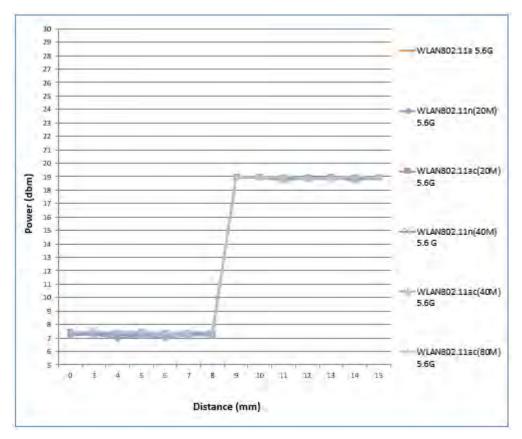


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Page: 58 of 121



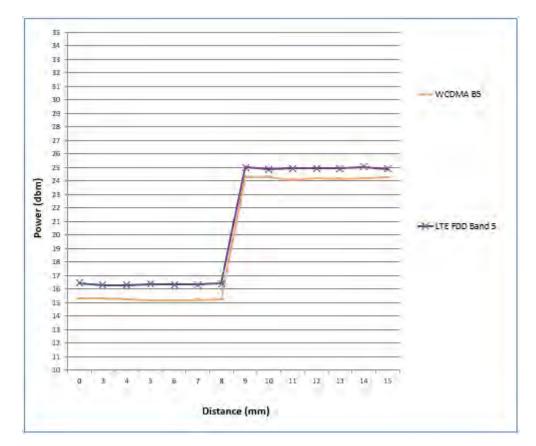
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Page: 59 of 121

Moving device away from the phantom



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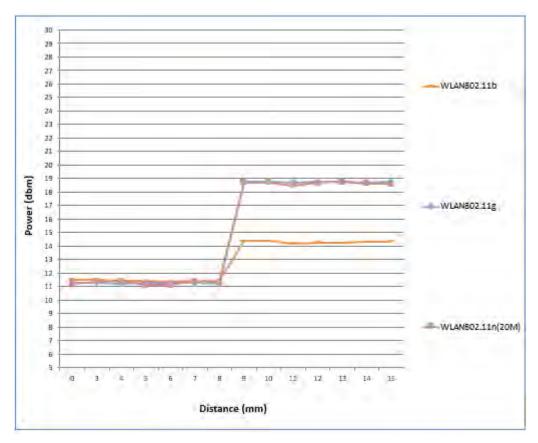
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Page: 60 of 121



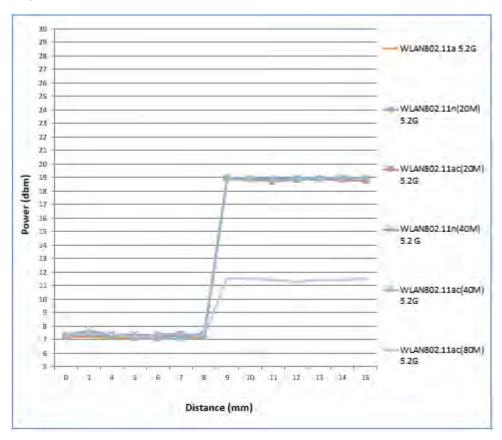
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Page: 61 of 121

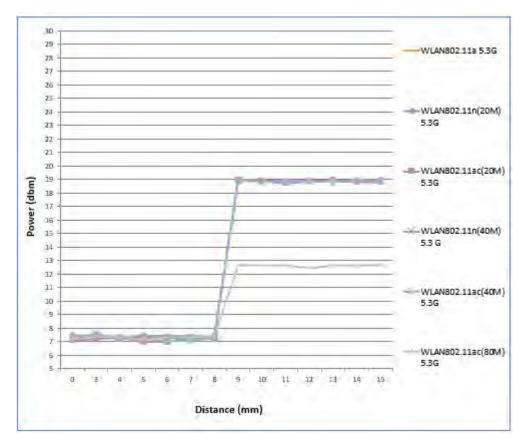


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Page: 62 of 121



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Page: 63 of 121

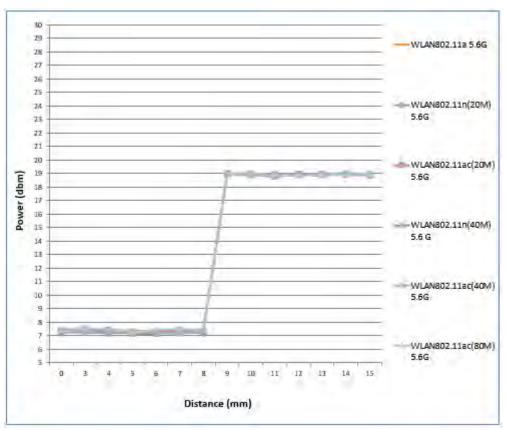


Table 1.6.5 Tilt angle test results for WWAN/WLAN top side

P-sensor	-50	-45	-40	-30	-20	-10	0	10	20	30	40	45	50
ON/OFF	deg												
8mm	ON												

During the tilt angle testing for WWAN/WLAN top side, the sensor is not released in 8mm, so 8-1=7mm is used in the SAR measurement.

Note:

- The triggering variations and hysteresis effect has been evaluated separately according to the tissue-equivalent medium required for each frequency band, and sensor triggering does not change with different tissue-equivalent media.
- 2. Conducted power is monitored qualitatively to identify the general triggering characteristics and recorded quantitatively, versus spacing.

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Page: 64 of 121

1.6.6 Operation description for P-sensor

Power Reduction Design Specification (for P-sensor)

The mechanism of power reduction is used for WWAN/WLAN. The reduced power scenario for each technology/band is defined in Table1-1. With P-sensor mechanism, please refer to WWAN/WLAN reduced power table in section 1.3 to be the WWAN/WLAN default power when P-sensor failure or malfunction.

Table1-1: The power reduction scenario table

Transmission mode	Band	Power Reduction		
WWAN	WCDMA B V / LTE B5	YES		
WLAN	All	YES		

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Page: 65 of 121

1.7 The SAR Measurement System

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

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

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

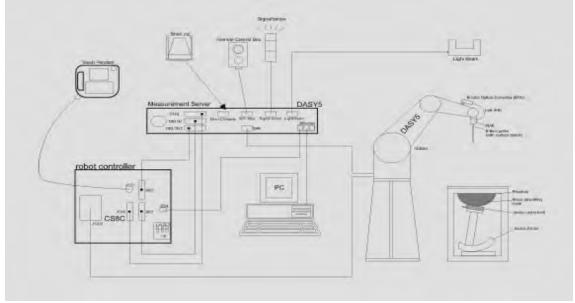


Fig. a The block diagram of SAR system

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Page: 66 of 121

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

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Page: 67 of 121

1.8 System Components

EX3DV4 E-Field Probe

Construction	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)						
Calibration	Basic Broad Band Calibration in air Conversion Factors (CF) for HSL 835/2450/5200/5300/5600 MHz Additional CF for other liquids and frequencies upon request						
Frequency	10 MHz to > 6 GHz						
Directivity	± 0.3 dB in HSL (rotation around probe axis) ± 0.5 dB in tissue material (rotation normal to probe axis)						
Dynamic	10 μW/g to > 100 mW/g						
Range	Linearity: ± 0.2 dB (noise: typically < 1 μW/g)						
Dimensions	Tip diameter: 2.5 mm						
Application	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields). Only probe which enables compliance testing for frequencies up to 6 GHz with precision of better 30%.						

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Page: 68 of 121

PHANTOM

PHANTOM		
Model	ELI	
Construction	compliance testing of handheld and is in the frequency range of 30 MHz in the frequency range of the frequency freque	
Shell	2 ± 0.2 mm	The state of the s
Thickness		
Filling Volume	Approx. 30 liters	
Dimensions	Major axis: 600 mm Minor axis: 400 mm	

DEVICE HOLDER

DEVICE HOLL	/LIN	
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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Page: 69 of 121

1.9 SAR System Verification

The microwave circuit arrangement for system verification is sketched in Fig. b. The daily system accuracy verification occurs within the flat section of the SAM phantom. A SAR measurement was performed to see if the measured SAR was within +/- 10% from the target SAR values. These tests were done at 835/2450/5200/5300/5600 MHz. The tests were conducted on the same days as the measurement of the DUT. The obtained results from the system accuracy verification are displayed in the table 1 (SAR values are normalized to 1W forward power delivered to the dipole). During the tests, the liquid depth above the ear reference points was ≥ 15 cm ± 5 mm (frequency ≤ 3 GHz) or ≥ 10 cm ± 5 mm (frequency > 3 G Hz) 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.

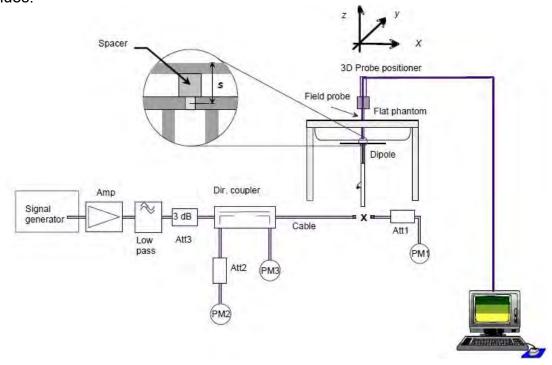


Fig. b The block diagram of system verification

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Page: 70 of 121

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	
D835V2	4d063	835	Head	9.57	2.44	9.76	1.99%	May. 20, 2020	
D2450V2	727	2450	Head	52.6	13.30	53.2	1.14%	Jun. 04, 2020	
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	
			5200	Head	80.1	8.13	81.3	1.50%	Jun. 05, 2020
D5GHzV2	1023	5300	Head	82.8	8.25	82.5	-0.36%	Jun. 06, 2020	
		5600	Head	83.1	8.42	84.2	1.32%	May. 24, 2020	

Table 1. Results of system validation

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Page: 71 of 121

1.0 Tissue Simulant Fluid for the Frequency Band

The dielectric properties for this Head-simulant fluid were measured by using the Agilent Model 85070E Dielectric Probe (rates frequency band 200 MHz to 20 GHz) in conjunction with Network Analyzer.

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

The depth of the tissue simulant in the flat section of the phantom was ≥ 15 cm ± 5 mm (Frequency \leq 3G) or \geq 10 cm \pm 5 mm (Frequency >3G) during all tests. (Fig. 2)

Tissue Type	Measurement Date	Measured Frequency (MHz)	Target Dielectric Constant,	Target Conductivity, σ (S/m)	Measured Dielectric Constant, Er	Measured Conductivity, σ (S/m)	% dev εr	% dev σ
		826.4	41.545	0.899	41.216	0.890	-0.79%	-1.04%
		829	41.531	0.900	41.199	0.891	-0.80%	-0.95%
		835	41.500	0.900	41.183	0.892	-0.76%	-0.89%
	May, 20. 2020	836.5	41.500	0.902	41.176	0.893	-0.78%	-0.96%
		836.6	41.500	0.902	41.156	0.892	-0.83%	-1.08%
		844	41.500	0.910	41.147	0.901	-0.85%	-0.96%
		846.6	41.500	0.912	41.189	0.903	-0.75%	-1.04%
	Jun, 04. 2020	2412	39.268	1.766	38.912	1.749	-0.91%	-0.98%
		2437	39.223	1.788	38.819	1.768	-1.03%	-1.14%
		2441	39.216	1.792	38.840	1.773	-0.96%	-1.06%
		2450	39.200	1.800	38.788	1.781	-1.05%	-1.06%
Head		2462	39.185	1.813	38.812	1.793	-0.95%	-1.11%
	Jun, 05. 2020	5190	35.997	4.645	35.727	4.611	-0.75%	-0.73%
		5200	35.986	4.655	35.698	4.623	-0.80%	-0.69%
		5210	35.974	4.665	35.690	4.632	-0.79%	-0.71%
		5230	35.951	4.686	35.660	4.651	-0.81%	-0.74%
		5270	35.906	4.727	35.633	4.695	-0.76%	-0.67%
	lun 06 2020	5290	35.883	4.747	35.589	4.716	-0.82%	-0.66%
	Jun, 06. 2020	5300	35.871	4.758	35.581	4.727	-0.81%	-0.64%
		5310	35.860	4.768	35.559	4.734	-0.84%	-0.71%
		5600	35.529	5.065	35.255	5.028	-0.77%	-0.73%
	May, 24. 2020	5610	35.517	5.075	35.247	5.041	-0.76%	-0.67%
		5690	35.426	5.157	35.132	5.123	-0.83%	-0.66%

Table 2. Dielectric Parameters of Tissue Simulant Fluid

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Page: 72 of 121

The composition of the tissue simulating liquid:

	_			T ()						
	Frequency (MHz)	Mode	DGMBE	Water	Salt	Preventol D-7	Cellulose	Sugar	Total amount	
	850	Head	ı	532.98 g	18.3 g	2.4 g	3.2 g	766 g	1.3L(Kg)	
	2450	Head	550ml	450ml	_	_	1	-	1.0L(Kg)	

Simulating Liquids for 5 GHz, Manufactured by SPEAG:

Ingredients	Water	Esters, Emulsifiers, Inhibitors	Sodium and Salt
(% by weight)	60-80	20-40	0-1.5

Table 3. Recipes for tissue simulating liquid

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Page: 73 of 121

1.11 Evaluation Procedures

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

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

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

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

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

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

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

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Page: 74 of 121

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

1.12 Probe Calibration Procedures

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

1.12.1 Transfer Calibration with Temperature Probes

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

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

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

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

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Page: 75 of 121

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

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

1.11.2 Calibration with Analytical Fields

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

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

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Page: 76 of 121

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

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303 Idiwan Etd.



Page: 77 of 121

1.13 Test Standards and Limits

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

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

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Page: 78 of 121

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

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

Table 4. RF exposure limits

Notes:

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

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Page: 79 of 121

2. Summary of Results

2.1 Decision rules

Reported measurement data comply with IEEE 1528-2013:

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

2.2 Summary of Results

Full power

WCDMA Band V

Mode	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max.Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged S (W/	U	Plot page
					Max. Tolerance (dbill)	(dDIII)		Measured	Reported	
	Back side	11	4132	826.4	25.0	24.21	119.95%	0.939	1.126	-
	Back side	11	4183	836.6	25.0	24.27	118.30%	1.110	1.313	-
	Back side	11	4233	846.6	25.0	24.16	121.34%	1.130	1.371	96
	Back side*	11	4233	846.6	25.0	24.16	121.34%	1.090	1.323	-
14/00144	Top side	7	4132	826.4	25.0	24.21	119.95%	0.795	0.954	-
WCDMA Band V	Top side	7	4183	836.6	25.0	24.27	118.30%	0.916	1.084	-
Bana v	Top side	7	4233	846.6	25.0	24.16	121.34%	0.834	1.012	-
	Top side*	7	4183	836.6	25.0	24.27	118.30%	0.911	1.078	-
	Bottom side	0	4183	836.6	25.0	24.27	118.30%	0.018	0.021	-
	Right side	0	4183	836.6	25.0	24.27	118.30%	0.085	0.101	-
	Left side	0	4183	836.6	25.0	24.27	118.30%	0.100	0.118	-

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

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Page: 80 of 121

LTE FDD Band 5

Mode	ode Bandwidth (MHz) Modulation		RB Size	RB start	Position	Distance (mm)	СН	Freq.	Max. Rated Avg. Power + Max.	Measured Avg. Power	Scaling	Averaged S. (W/		Plot																	
	(**** 12)		0.20			()		(12)	Tolerance (dBm)	(dBm)		Measured	Reported	pago																	
					Back side	11	20600	844	25	24.99	100.23%	1.130	1.133	97																	
					Back side*	11	20600	844	25	24.99	100.23%	1.110	1.113	-																	
					Top side	7	20600	844	25	24.99	100.23%	1.000	1.002	-																	
				0	Top side*	7	20600	844	25	24.99	100.23%	0.989	0.991	-																	
					Bottom side	0	20600	844	25	24.99	100.23%	0.019	0.019	-																	
			1 RB		Right side	0	20600	844	25	24.99	100.23%	0.044	0.044	-																	
					Left side	0	20600	844	25	24.99	100.23%	0.106	0.106	-																	
					Back side	11	20450	829	25	24.95	101.16%	0.953	0.964	-																	
				25	Back side	11	20525	836.5	25	24.97	100.69%	0.962	0.969	-																	
			SK		23	Top side	7	20450	829	25	24.95	101.16%	0.925	0.936	-																
					Top side	7	20525	836.5	25	24.97	100.69%	0.974	0.981	-																	
									0 12												0	Back side	11	20525	836.5	24	23.94	101.39%	0.811	0.822	-
LTE Band 5	10MHz	QPSK								12	Back side	11	20600	844	24	23.95	101.16%	0.793	0.802	-											
Bana o					Back side	11	20450	829	24	23.96	100.93%	0.828	0.836	-																	
			25 RB		Top side	7	20450	829	24	23.96	100.93%	0.758	0.765	-																	
				25	Bottom side	0	20450	829	24	23.96	100.93%	0.015	0.015	-																	
					Right side	0	20450	829	24	23.96	100.93%	0.040	0.040	-																	
					Left side	0	20450	829	24	23.96	100.93%	0.073	0.074	-																	
					Back side	11	20450	829	24	23.88	102.80%	0.893	0.918	-																	
				Back side	11	20525	836.5	24	23.91	102.09%	0.927	0.946	-																		
		50		Back side	11	20600	844	24	23.89	102.57%	0.902	0.925	-																		
			0 RB	Top side	7	20525	836.5	24	23.91	102.09%	0.773	0.789	-																		
			50		Bottom side	0	20525	836.5	24	23.91	102.09%	0.013	0.013	-																	
					Right side	0	20525	836.5	24	23.91	102.09%	0.039	0.040	-																	
					Left side	0	20525	836.5	24	23.91	102.09%	0.078	0.080	-																	

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

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Page: 81 of 121

WIFI/BT

Mode	Position	Distance (mm)	СН	Freq.	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty Cycle Scaling	Power Scaling	Averaged S (W/		Plot
		(11111)		(IVII IZ)	Tolerance (dBm)	(dBm)	Scaling		Measured	Reported	paye
	Back side	11	11	2462	14.50	14.36	1.005	103.28%	0.165	0.171	98
	Top side	7	11	2462	14.50	14.36	1.005	103.28%	0.060	0.062	-
WLAN 802.11b	Bottom side	0	11	2462	14.50	14.36	1.005	103.28%	0.001	0.001	-
	Right side	0	11	2462	14.50	14.36	1.005	103.28%	0.035	0.036	-
	Left side	0	11	2462	14.50	14.36	1.005	103.28%	0.016	0.017	T -
	Back side	11	1	2412	19.00	18.79	1.022	104.95%	0.406	0.435	99
	Top side	7	1	2412	19.00	18.79	1.022	104.95%	0.158	0.169	-
WLAN 802.11g	Bottom side	0	1	2412	19.00	18.79	1.022	104.95%	0.001	0.001	-
	Right side	0	1	2412	19.00	18.79	1.022	104.95%	0.097	0.104	-
	Left side	0	1	2412	19.00	18.79	1.022	104.95%	0.040	0.043	-
	Back side	0	78	2480	9.50	9.18	1.302	107.65%	0.002	0.002	100
	Top side	0	78	2480	9.50	9.18	1.302	107.65%	0.001	0.001	-
Bluetooth (GFSK)	Bottom side	0	78	2480	9.50	9.18	1.302	107.65%	0.001	0.001	-
(Of Oit)	Right side	0	78	2480	9.50	9.18	1.302	107.65%	0.001	0.001	-
	Left side	0	78	2480	9.50	9.18	1.302	107.65%	0.001	0.001	-
	Back side	11	46	5230	19.00	18.45	1.013	113.50%	0.495	0.569	-
	Top side	7	46	5230	19.00	18.45	1.013	113.50%	1.090	1.253	101
MILANI 000 44-/40MD 5 00	Top side*	7	46	5230	19.00	18.45	1.013	113.50%	1.030	1.184	-
WLAN 802.11n(40M) 5.2G	Bottom side	0	46	5230	19.00	18.45	1.013	113.50%	0.029	0.033	-
	Right side	0	46	5230	19.00	18.45	1.013	113.50%	0.024	0.028	-
	Left side	0	46	5230	19.00	18.45	1.013	113.50%	0.007	0.008	-
N/I AN 000 44 - /40M 5 00	Top side	7	46	5230	19.00	18.33	1.010	116.68%	0.907	1.069	102
WLAN 802.11ac(40M) 5.2G	Top side*	7	46	5230	19.00	18.33	1.010	116.68%	0.903	1.064	-
	Back side	11	54	5270	19.00	18.76	1.013	105.68%	0.511	0.547	-
	Top side	7	54	5270	19.00	18.76	1.013	105.68%	1.040	1.113	103
M/I ANI 000 44~/40M/ F 20	Top side*	7	54	5270	19.00	18.76	1.013	105.68%	0.995	1.065	-
WLAN 802.11n(40M) 5.3G	Bottom side	0	54	5270	19.00	18.76	1.013	105.68%	0.027	0.029	-
	Right side	0	54	5270	19.00	18.76	1.013	105.68%	0.032	0.034	-
	Left side	0	54	5270	19.00	18.76	1.013	105.68%	0.009	0.009	-
MI AN 000 44 - /40M 5 00	Top side	7	54	5270	19.00	18.67	1.010	107.89%	0.984	1.072	104
WLAN 802.11ac(40M) 5.3G	Top side*	7	54	5270	19.00	18.67	1.010	107.89%	0.971	1.058	-
	Back side	11	122	5610	19.00	18.98	1.013	100.44%	0.377	0.383	-
	Top side	7	122	5610	19.00	18.98	1.013	100.44%	0.685	0.697	105
WLAN 802.11ac(80M) 5.6G	Bottom side	0	122	5610	19.00	18.98	1.013	100.44%	0.019	0.019	-
	Right side	0	122	5610	19.00	18.98	1.013	100.44%	0.016	0.016	-
	Left side	0	122	5610	19.00	18.98	1.013	100.44%	0.005	0.005	-

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

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Page: 82 of 121

Reduced power

WCDMA Band V

Mode	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max.Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged S (W/	Plot page	
					Max. referance (abin)	(GBIII)		Measured	Reported	
	Back side	0	4132	826.4	16.5	15.13	137.09%	0.584	0.801	-
14/00144	Back side	0	4183	836.6	16.5	15.14	136.77%	0.614	0.840	-
WCDMA Band V	Back side	0	4233	846.6	16.5	15.23	133.97%	0.657	0.880	106
Baild V	Back side*	0	4233	846.6	16.5	15.23	133.97%	0.652	0.873	-
	Top side	0	4183	836.6	16.5	15.14	136.77%	0.408	0.558	-

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

LTE FDD Band 5

Mode	Bandwidth (MHz)	Modulation	RB Size	RB start	Position	Distance (mm)	СН	Freq.	Max. Rated Avg. Power + Max.	Measured Avg. Power	Scaling	Averaged S. (W/		Plot																			
(****		0.20			()		(12)	Tolerance (dBm)	(dBm)		Measured	Reported	p = .90																				
					Back side	0	20525	836.5	16.5	16.36	103.28%	0.574	0.593	-																			
	1 RB	1 DD	1 DB	1 DR	1 DD	1 DD	1 DD	1 DD	1 DD	1 DD	25	Back side	0	20600	844	16.5	16.39	102.57%	0.605	0.621	107												
		IND		Top side	0	20600	844	16.5	16.39	102.57%	0.397	0.407	-																				
LTE	10MHz	OBSK	OBSK	OBSK	OPSK	OPSK	OPSK	OPSK	QPSK	QPSK	QPSK	QPSK			OBSK	:	49	49	Back side	0	20450	829	16.5	16.38	102.80%	0.570	0.586	-					
Band 5	TOWINZ	-												25 PR	25 DD	25 DD		25 DD	25 DD	25 PB	25 PR	25 RB		12	Back side	0	20600	844	16.5	16.08	110.15%	0.494	0.544
	25	25 RB	25 RB 12	Top side	0	20600	844	16.5	16.08	110.15%	0.369	0.406	-																				
		5	0 RB	Back side	0	20525	836.5	16.5	16.06	110.66%	0.466	0.516	-																				
				5	UND	Top side	0	20525	836.5	16.5	16.06	110.66%	0.355	0.393	-																		

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Page: 83 of 121

WIFI/BT

Mode	Position	Distance (mm)	СН	Freq.	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty Cycle Scaling	Power Scaling		AR over 1g /kg)	Plot page
		` ′		, ,	Tolerance (dBm)	(dBm)	ŭ		Measured	Reported	
WLAN 802.11b	Back side	0	6	2437	11.50	11.47	1.005	100.69%	0.585	0.592	108
	Top side	0	6	2437	11.50	11.47	1.005	100.69%	0.128	0.130	-
WLAN 802.11n(40M) 5.2G	Back side	0	46	5230	7.50	7.45	1.013	101.16%	0.781	0.800	109
	Back side	0	42	5210	7.50	7.43	1.013	101.62%	0.812	0.836	110
WLAN 802.11ac(80M) 5.2G	Back side*	0	42	5210	7.50	7.43	1.013	101.62%	0.799	0.822	-
	Top side	0	42	5210	7.50	7.43	1.013	101.62%	0.408	0.420	-
WLAN 802.11n(40M) 5.3G	Back side	0	62	5310	7.50	7.37	1.013	103.04%	0.726	0.757	111
	Back side	0	58	5290	7.50	7.40	1.013	102.33%	0.828	0.858	112
WLAN 802.11ac(80M) 5.3G	Back side*	0	58	5290	7.50	7.40	1.013	102.33%	0.811	0.840	-
, ,	Top side	0	58	5290	7.50	7.40	1.013	102.33%	0.404	0.419	-
W/I ANI 902 11cc/90M) E 6C	Back side	0	138	5690	7.50	7.49	1.013	100.23%	0.370	0.376	113
WLAN 802.11ac(80M) 5.6G	Top side	0	138	5690	7.50	7.49	1.013	100.23%	0.176	0.179	-

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

Note:

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

Reported SAR = measured SAR * Power scaling * Duty cycle scaling Where P2 is maximum specified power, P1 is measured conducted power

2.3 Reporting statements of conformity

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

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Page: 84 of 121

3. Simultaneous Transmission Analysis

Simultaneous Transmission Scenarios:

Simultaneous Transmit Configurations	Body
WWAN + 2.4GHz WLAN	Yes
WWAN + 5GHz WLAN	Yes
WWAN + BT	Yes

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Page: 85 of 121

3.1 Estimated SAR calculation

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

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

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

3.2 SPLSR evaluation and analysis

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

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

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

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

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

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Page: 86 of 121

	report	ted SAR WWA	N and 2.4 GHz	WLAN, ΣSAR e	valuation		
Frequency	D 111	Distance	SAR /	/ W/kg	50AD	001.00	
band	Position	(mm)	WWAN	WLAN	ΣSAR	SPLSR	
	Back side	11	1.371	0.435	1.806	Analyzed	
	Buok oldo		1.07	0.100		as below	
	Top side	7	1.084	0.169	1.253	ΣSAR<1.6,	
		-				Not required	
	Back side	0	0.880	0.592	1.472	ΣSAR<1.6,	
						Not required	
WCDMA	Top side	0	0.558	0.13	0.688	ΣSAR<1.6,	
Band V						Not required	
	Bottom side	0	0.021	0.001	0.022	ΣSAR<1.6,	
			0.02.	0.00.	0.022	Not required	
	Right side	0	0.101	0.104	0.205	ΣSAR<1.6,	
			00.	0	0.200	Not required	
	Left side	Left side	0	0.118	0.043	0.161	ΣSAR<1.6,
	2011 0100		01110	0.0.0	0	Not required	
	Back side	11	1.133	0.435	1.568	ΣSAR<1.6,	
	2401. 0140			000		Not required	
	Top side	7	1.002	0.169	1.171	ΣSAR<1.6,	
	Top side	,	1.002	0.100	1.171	Not required	
	Back side	0	0.621	0.592	1.213	ΣSAR<1.6,	
	Buok oldo		0.021	0.002	1.210	Not required	
LTE FDD	Top side	0	0.407	0.13	0.537	ΣSAR<1.6,	
Band 5	Top oldo		0.407	0.10	0.007	Not required	
	Bottom side	0	0.019	0.001	0.020	ΣSAR<1.6,	
	Bottom oldo		0.010	0.001	0.020	Not required	
	Right side	0	0.044	0.104	0.148	ΣSAR<1.6,	
	Trigini side	0	0.044	0.104	0.140	Not required	
	Left side	0	0.106	0.043	0.149	ΣSAR<1.6,	
	Left side	Left side	0	0.100	0.040	0.143	Not required

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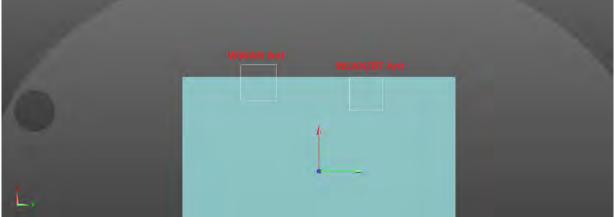
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Page: 87 of 121

WCDMA Band V + 2.4 GHz WLAN

Conditions	Position / Distance	SAR Value	Cod	ordinates (d	cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission	
	Distance	(W/kg)		у	z	(VV/Kg)	Distance (mm)		SAR Test	
WCDMA Band V	Back side	1.371	7.90	-4.92	0.45	1.806	89.06	0.027	SPLSR<0.04,	
WIFI/BT	11mm	0.435	7.02	3.94	0.57	1.000	09.00	0.027	Not required	



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Page: 88 of 121

	repoi	rted SAR WWA	N and 5 GHz V	VLAN, ΣSAR ev	aluation		
Frequency	D :::	Distance	SAR	/ W/kg	5045	001.00	
band	Position	(mm)	WWAN	WLAN	ΣSAR	SPLSR	
	Back side	11	1.371	0.569	1.940	Analyzed	
				31333		as below	
	Top side	7	1.084	1.253	2.337	Analyzed	
						as below	
	Back side	0	0.880	0.858	1.738	Analyzed	
MODMA						as below	
WCDMA Band V	Top side	0	0.558	0.420	0.978	ΣSAR<1.6,	
Band v						Not required	
	Bottom side	0	0.021	0.033	0.054	ΣSAR<1.6,	
						Not required	
	Right side	0	0.101	0.034	0.135	ΣSAR<1.6,	
						Not required	
	Left side	0	0.118	0.009	0.127	ΣSAR<1.6,	
						Not required Analyzed	
	Back side	11	1.133	0.569	1.702	as below	
						Analyzed	
	Top side	7	1.002	1.253	2.255	as below	
						ΣSAR<1.6,	
	Back side	0	0.621	0.858	1.479	Not required	
LTE FDD						ΣSAR<1.6,	
Band 5	Top side	0	0.407	0.420	0.827	Not required	
						ΣSAR<1.6,	
	Bottom side	0	0.019	0.033	0.052	Not required	
	Display and -	0	0.044	0.004	0.070	ΣSAR<1.6,	
	Right side	0	0.044	0.034	0.078	Not required	
	Left side		0	0.406	0.000	0.115	ΣSAR<1.6,
		0	0.106	0.009	0.115	Not required	

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Page: 89 of 121

WCDMA Band V + 5 GHz WLAN

Conditions	Position /	SAR Value	Cod	ordinates (d	cm)	ΣSAR	Peak Location Separation	SPLSR	Simultaneous Transmission
	Distance	(W/kg)	х	у	Z	(W/kg)	Distance (mm)		SAR Test
WCDMA Band V	Back side	1.371	7.90	-4.92	0.45	1.940	76.44	0.035	SPLSR<0.04,
WIFI/BT	11mm	0.569	7.80	2.72	0.52	1.940	70.44	0.000	Not required



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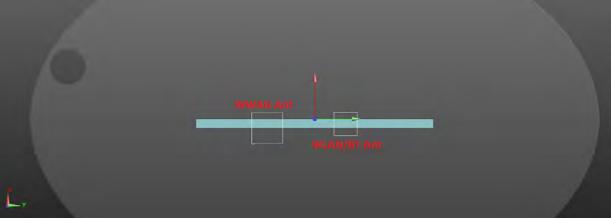
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Page: 90 of 121

WCDMA Band V + 5 GHz WI AN

WCDIMA BANG V + 5 GHZ WLAIN									
Conditions	Position / Distance SAR Value (W/kg)	Coordinates (cm)			ΣSAR	Peak Location Separation	SPLSR	Simultaneous Transmission	
		(W/kg)	х	у	Z	(W/kg)	Distance (mm)		SAR Test
WCDMA Band V	Top side	1.084	-0.95	-5.06	0.34	2.337	92.95	0.038	SPLSR<0.04, Not required
WIFI/BT	7mm	1.253	-0.66	3.52	0.43				



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Page: 91 of 121

WCDMA Band V + 5 GHz WLAN

Conditions	Position / Distance	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
			х	у	Z	(vv/kg)	Distance (mm)		
WCDMA Band V	Back side 0mm	0.880	7.76	-4.40	0.48	1.738	63.04	0.036	, , , , , , , , , , , , , , , , , , ,
WIFI/BT		0.858	7.60	1.90	0.59	1.750	03.04		



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Page: 92 of 121

LTE Band 5 + 5 GHz WLAN

- 3										
	Conditions	Conditions Position / Distance		Coordinates (cm)			ΣSAR	Peak Location Separation	SPLSR	Simultaneous Transmission
		Distance	(W/kg)	х	У	Z	(W/kg)	Distance (mm)		SAR Test
	LTE Band 5	Back side 11mm	1.133	7.90	-4.93	0.45	1.702	76.55	0.029	SPLSR<0.04, Not required
	WIFI/BT		0.569	7.80	2.72	0.52	1.702			
- 1										



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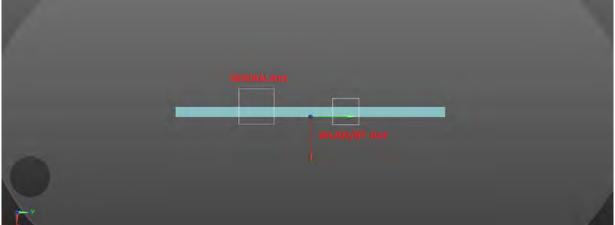
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Page: 93 of 121

LTE Band 5 + 5 GHz WLAN

Conditions	Position / Distance	SAR Value (W/kg)	Coordinates (cm)			ΣSAR	Peak Location Separation	SPLSR	Simultaneous Transmission
			х	У	Z	(W/kg)	Distance (mm)		SAR Test
LTE Band 5	Top side 7mm	1.002	-0.95	-5.06	0.35	2.255	85.86	0.039	SPLSR<0.04, Not required
WIFI/BT		1.253	-0.66	3.52	0.43	2.233			



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Page: 94 of 121

	reported SAR WWAN and Bluetooth, ΣSAR evaluation								
Frequency	Position	Distance	SAR /	W/kg	ΣSAR	CDI CD			
band	Position	(mm)	WWAN	BT	ZSAK	SPLSR			
	Back side	0	0.880	0.002	0.882	ΣSAR<1.6,			
	Buok oldo		0.000	0.002	0.002	Not required			
	Top side	0	0.558	0.001	0.559	ΣSAR<1.6,			
	Top side	0	0.000	0.001	0.000	Not required			
WCDMA	Bottom side	0	0.021	0.001	0.022	ΣSAR<1.6,			
Band V					0.022	Not required			
	Right side	0	0.101	0.001	0.102	ΣSAR<1.6,			
				0.001	0.102	Not required			
		0	0.118	0.001	0.119	ΣSAR<1.6,			
		Ů		0.001		Not required			
	Back side Top side	0	0.621	0.002	0.623	ΣSAR<1.6,			
		U	0.021	0.002	0.023	Not required			
		0	0.407	0.001	0.408	ΣSAR<1.6,			
	Top side	0	0.407	0.001	0.400	Not required			
LTE FDD	Bottom side	0	0.019	0.001	0.020	ΣSAR<1.6,			
Band 5	Bottom side	U		0.001	0.020	Not required			
	Right side	0	0.044	0.001	0.045	ΣSAR<1.6,			
	Tight Side			0.001	0.040	Not required			
	Left side	0	0.106	0.001	0.107	ΣSAR<1.6,			
	Leit side	U	0.106		0.107	Not required			

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Page: 95 of 121

4. Instruments List

instruments Eist									
Manufacturer	Device	Туре	Serial number	Date of last calibration	Date of next calibration				
SPEAG	Dosimetric E-Field Probe	EX3DV4	3665	Aug.30,2019	Aug.29,2020				
		D835V2	4d063	Aug.23,2019	Aug.22,2020				
SPEAG	System Validation Dipole	D2450V2	727	Apr.22,2020	Apr.21,2021				
		D5GHzV2	1023	Jan.28,2020	Jan.27,2021				
SPEAG	Data acquisition Electronics	DAE4	547	Mar.17,2020	Mar.16,2021				
SPEAG	Software	DASY 52 V52.10.3	N/A	Calibration not required	Calibration not required				
SPEAG	Phantom	ELI	N/A	Calibration not required	Calibration not required				
Agilent	Network Analyzer	E5071C	MY46100433	Dec.13,2019	Dec.12,2020				
Agilent	Dielectric Probe Kit	85070E	MY44300677	Calibration not required	Calibration not required				
Agilent	Dual-directional	772D	MY46151242	Jul.30,2019	Jul.29,2020				
Agiletit	coupler	778D	MY48220468	Jul.30,2019	Jul.29,2020				
Agilent	Signal Generator	N5181A	MY50144142	Dec.12,2019	Dec.11,2020				
Agilent	Power Meter	ML2496A	1337004	Sep.19,2019	Sep.18,2020				
Agilent	Power Sensor	MA2411B	1306052	Sep.19,2019	Sep.18,2020				
Changzhou Xinwang	Digital thermometer	DTM-303A	TP190085	Dec.16,2019	Dec.15,2020				
Anritsu	Radio Communication Test	MT8820C	6201061049	Dec.08,2019	Dec.07,2020				

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Page: 96 of 121

5. Measurements

Date: 2020/5/20

Report No.: E5/2020/40009

WCDMA Band V_Body_Back side_CH 4233_11mm

Communication System: WCDMA; Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium parameters used: f = 847 MHz; $\sigma = 0.903$ S/m; $\varepsilon_r = 41.189$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.6°C

DASY5 Configuration:

Probe: EX3DV4 - SN3665; ConvF(9.47, 9.47, 9.47); Calibrated: 2019/8/30

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2020/3/17

Phantom: ELI

DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (61x91x1): Interpolated grid: dx=15 mm, dy=15 mm

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

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.288 V/m: Power Drift = -0.02 dB

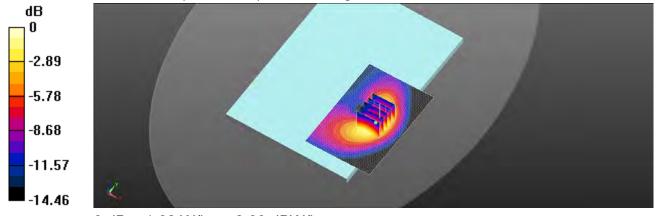
Peak SAR (extrapolated) = 2.01 W/kg

SAR(1 g) = 1.13 W/kg; SAR(10 g) = 0.652 W/kg

Smallest distance from peaks to all points 3 dB below = 11.2 mm

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

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



0 dB = 1.62 W/kg = 2.09 dBW/kg

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Page: 97 of 121

Date: 2020/5/20

Report No.: E5/2020/40009

LTE Band 5 (10MHz)_Body_Back side_CH 20600_QPSK_1-0_11mm

Communication System: LTE; Frequency: 844 MHz; Duty Cycle: 1:1

Medium parameters used: f = 844 MHz; $\sigma = 0.901$ S/m; $\varepsilon_r = 41.147$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.6°C

DASY5 Configuration:

Probe: EX3DV4 - SN3665; ConvF(9.47, 9.47, 9.47); Calibrated: 2019/8/30

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2020/3/17

Phantom: ELI

DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (61x91x1): Interpolated grid: dx=15 mm, dy=15 mm

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

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.251 V/m; Power Drift = 0.05 dB

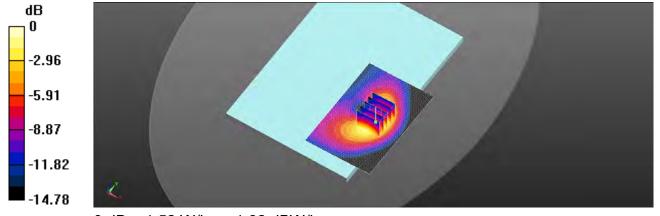
Peak SAR (extrapolated) = 1.91 W/kg

SAR(1 g) = 1.13 W/kg; SAR(10 g) = 0.656 W/kg

Smallest distance from peaks to all points 3 dB below = 11.2 mm

Ratio of SAR at M2 to SAR at M1 = 60.8%

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



0 dB = 1.52 W/kg = 1.82 dBW/kg

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Page: 98 of 121

Date: 2020/6/4

Report No.: E5/2020/40009

WLAN 802.11b Body Back side CH 11 11mm WIFI BT

Communication System: WLAN; Frequency: 2462 MHz; Duty Cycle: 1:0.995

Medium parameters used: f = 2462 MHz; $\sigma = 1.793 \text{ S/m}$; $\varepsilon_r = 38.812$; $\rho = 3000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN3665; ConvF(7.36, 7.36, 7.36); Calibrated: 2019/8/3

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2020/3/17

Phantom: ELI

DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

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

Maximum value of SAR (interpolated) = 0.210 W/kg

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

Reference Value = 1.992 V/m; Power Drift = -0.06 dB

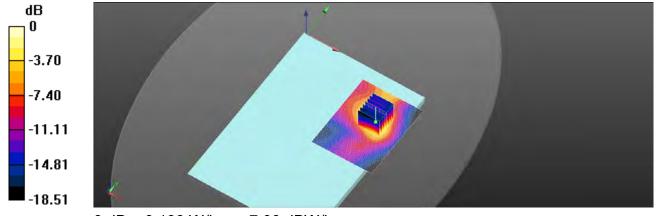
Peak SAR (extrapolated) = 0.271 W/kg

SAR(1 g) = 0.165 W/kg; SAR(10 g) = 0.100 W/kg

Smallest distance from peaks to all points 3 dB below = 11.3 mm

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

Maximum value of SAR (measured) = 0.199 W/kg



0 dB = 0.199 W/kg = -7.00 dBW/kg

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Page: 99 of 121

Date: 2020/6/4

Report No.: E5/2020/40009

WLAN 802.11g Body Back side CH 1 11mm WIFI BT

Communication System: WLAN; Frequency: 2412 MHz; Duty Cycle: 1:0.979

Medium parameters used: f = 2412 MHz; $\sigma = 1.749 \text{ S/m}$; $\varepsilon_r = 38.912$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN3665; ConvF(7.36, 7.36, 7.36); Calibrated: 2019/8/3

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2020/3/17

Phantom: ELI

DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

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

Maximum value of SAR (interpolated) = 0.630 W/kg

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

Reference Value = 2.795 V/m; Power Drift = -0.02 dB

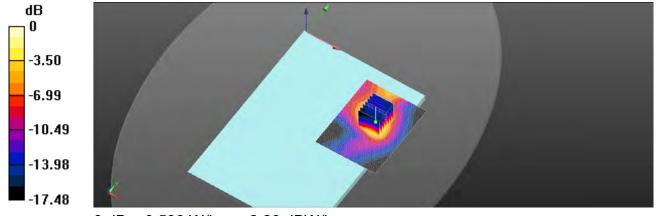
Peak SAR (extrapolated) = 0.813 W/kg

SAR(1 g) = 0.406 W/kg; SAR(10 g) = 0.207 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 50.9%

Maximum value of SAR (measured) = 0.598 W/kg



0 dB = 0.598 W/kg = -2.23 dBW/kg

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Page: 100 of 121

Date: 2020/6/4

Report No.: E5/2020/40009

Bluetooth(GFSK) Body Back side CH 39 0mm WIFI BT

Communication System: Bluetooth; Frequency: 2441 MHz; Duty Cycle: 1:0.768 Medium parameters used: f = 2441 MHz; $\sigma = 1.773$ S/m; $\varepsilon_r = 38.84$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN3665; ConvF(7.36, 7.36, 7.36); Calibrated: 2019/8/3

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2020/3/17

Phantom: ELI

DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (91x91x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.00197 W/kg

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

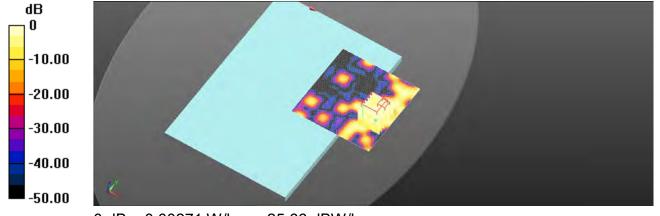
Reference Value = 1.149 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.00376 W/kg

SAR(1 g) = 0.00163 W/kg; SAR(10 g) = 0.00124 W/kg

Ratio of SAR at M2 to SAR at M1 = 41.9%

Maximum value of SAR (measured) = 0.00271 W/kg



0 dB = 0.00271 W/kg = -25.66 dBW/kg

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Page: 101 of 121

Date: 2020/6/5

Report No.: E5/2020/40009

WLAN 802.11n(40M) 5.2G Body Top side CH 46 7mm WIFI BT

Communication System: WLAN; Frequency: 5230 MHz; Duty Cycle: 1:0.988

Medium parameters used: f = 5230 MHz; $\sigma = 4.651 \text{ S/m}$; $\varepsilon_r = 35.66$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN3665; ConvF(5.28, 5.28, 5.28); Calibrated: 2019/8/30

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2020/3/17

Phantom: ELI

DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

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

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

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

Reference Value = 7.465 V/m; Power Drift = -0.05 dB

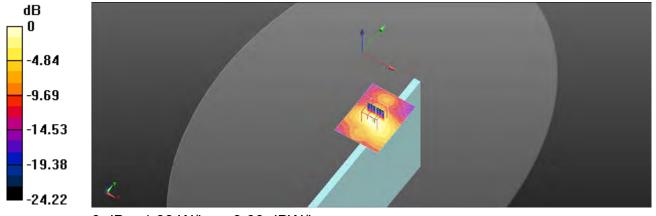
Peak SAR (extrapolated) = 4.22 W/kg

SAR(1 g) = 1.09 W/kg; SAR(10 g) = 0.407 W/kg

Smallest distance from peaks to all points 3 dB below = 9.7 mm

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

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



0 dB = 1.99 W/kg = 3.00 dBW/kg

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Page: 102 of 121

Date: 2020/6/5

Report No.: E5/2020/40009

WLAN 802.11ac(40M) 5.2G Body Top side CH 46 7mm WIFI BT

Communication System: WLAN; Frequency: 5230 MHz; Duty Cycle: 1:0.990

Medium parameters used: f = 5230 MHz; $\sigma = 4.651 \text{ S/m}$; $\varepsilon_r = 35.66$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN3665; ConvF(5.28, 5.28, 5.28); Calibrated: 2019/8/30

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2020/3/17

Phantom: ELI

DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (61x91x1): Interpolated grid: dx=10 mm, dy=10 mm

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

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

Reference Value = 6.971 V/m; Power Drift = -0.03 dB

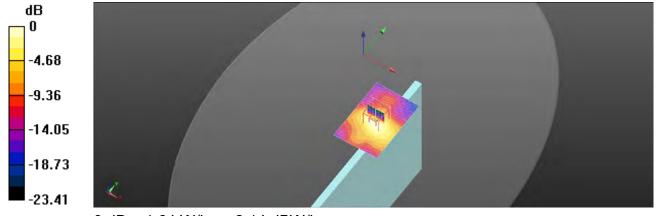
Peak SAR (extrapolated) = 3.41 W/kg

SAR(1 g) = 0.907 W/kg; SAR(10 g) = 0.338 W/kg

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

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

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



0 dB = 1.64 W/kg = 2.14 dBW/kg

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Page: 103 of 121

Date: 2020/6/6

Report No.: E5/2020/40009

WLAN 802.11n(40M) 5.3G Body Top side CH 54 7mm WIFI BT

Communication System: WLAN; Frequency: 5270 MHz; Duty Cycle: 1:0.988

Medium parameters used: f = 5270 MHz; σ = 4.695 S/m; ϵ_r = 35.633; ρ = 1000 kg/m³

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 21.7°C

DASY5 Configuration:

Probe: EX3DV4 - SN3665; ConvF(5.18, 5.18, 5.18); Calibrated: 2019/8/30

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2020/3/17

Phantom: ELI

DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

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

Maximum value of SAR (interpolated) = 2.22 W/kg

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

Reference Value = 7.725 V/m; Power Drift = -0.01 dB

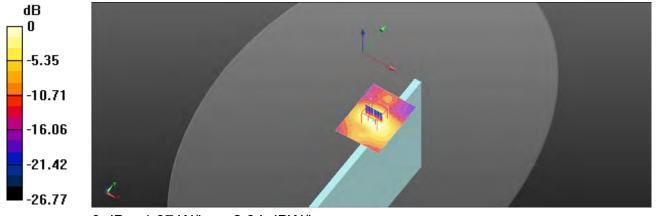
Peak SAR (extrapolated) = 4.22 W/kg

SAR(1 g) = 1.04 W/kg; SAR(10 g) = 0.383 W/kg

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

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

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



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

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Report No.: E5/2020/40009 Page: 104 of 121

Date: 2020/6/6

Report No.: E5/2020/40009

WLAN 802.11ac(40M) 5.3G Body Top side CH 54 7mm WIFI BT

Communication System: WLAN; Frequency: 5270 MHz; Duty Cycle: 1:0.990

Medium parameters used: f = 5270 MHz; σ = 4.695 S/m; ϵ_r = 35.633; ρ = 1000 kg/m³

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 21.7°C

DASY5 Configuration:

Probe: EX3DV4 - SN3665; ConvF(5.18, 5.18, 5.18); Calibrated: 2019/8/30

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2020/3/17

Phantom: ELI

DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

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

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

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

Reference Value = 6.627 V/m; Power Drift = 0.02 dB

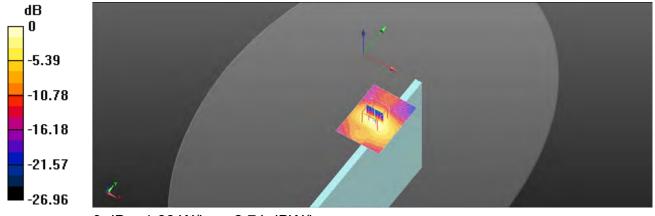
Peak SAR (extrapolated) = 3.93 W/kg

SAR(1 g) = 0.984 W/kg; SAR(10 g) = 0.363 W/kg

Smallest distance from peaks to all points 3 dB below = 10.2 mm

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

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



0 dB = 1.88 W/kg = 2.74 dBW/kg

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Page: 105 of 121

Date: 2020/5/24

Report No.: E5/2020/40009

WLAN 802.11ac(80M) 5.6G Body Top side CH 122 7mm WIFI BT

Communication System: WLAN; Frequency: 5610 MHz; Duty Cycle: 1:0.988

Medium parameters used: f = 5610 MHz; σ = 5.041 S/m; ϵ_r = 35.247; ρ = 1000 kg/m³

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.9°C

DASY5 Configuration:

Probe: EX3DV4 - SN3665; ConvF(4.99, 4.99, 4.99); Calibrated: 2019/8/30

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2020/3/17

Phantom: ELI

DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

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

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

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

Reference Value = 7.800 V/m; Power Drift = -0.05 dB

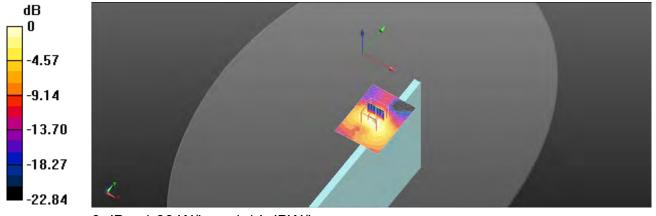
Peak SAR (extrapolated) = 3.14 W/kg

SAR(1 g) = 0.685 W/kg; SAR(10 g) = 0.255 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 48%

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



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

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Page: 106 of 121

Date: 2020/5/20

Report No.: E5/2020/40009

WCDMA Band V Body Back side CH 4233 0mm

Communication System: WCDMA; Frequency: 846.6 MHz; Duty Cycle: 1:1

Medium parameters used: f = 847 MHz; $\sigma = 0.903$ S/m; $\varepsilon_r = 41.189$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.6°C

DASY5 Configuration:

Probe: EX3DV4 - SN3665; ConvF(9.47, 9.47, 9.47); Calibrated: 2019/8/30

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2020/3/17

Phantom: ELI

DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (61x71x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.893 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 0.7980 V/m; Power Drift = 0.04 dB

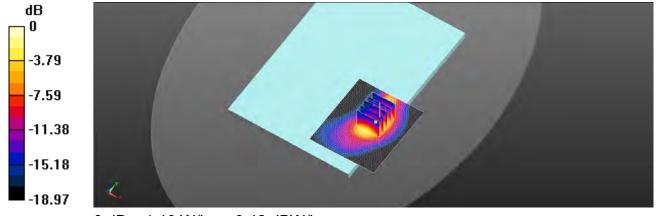
Peak SAR (extrapolated) = 1.50 W/kg

SAR(1 g) = 0.657 W/kg; SAR(10 g) = 0.318 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 42.5%

Maximum value of SAR (measured) = 1.10 W/kg



0 dB = 1.10 W/kg = 0.42 dBW/kg

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Page: 107 of 121

Date: 2020/5/20

Report No.: E5/2020/40009

LTE Band 5 (10MHz) Body Back side CH 20600 QPSK 1-25 0mm

Communication System: LTE; Frequency: 844 MHz; Duty Cycle: 1:1

Medium parameters used: f = 844 MHz; $\sigma = 0.901$ S/m; $\varepsilon_r = 41.147$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.6°C

DASY5 Configuration:

Probe: EX3DV4 - SN3665; ConvF(9.47, 9.47, 9.47); Calibrated: 2019/8/30

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2020/3/17

Phantom: ELI

DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (61x71x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.817 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 0.9260 V/m; Power Drift = 0.05 dB

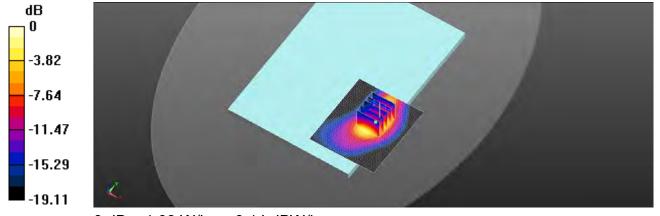
Peak SAR (extrapolated) = 1.41 W/kg

SAR(1 g) = 0.605 W/kg; SAR(10 g) = 0.292 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 45.2%

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



0 dB = 1.03 W/kg = 0.14 dBW/kg

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Page: 108 of 121

Date: 2020/6/4

Report No.: E5/2020/40009

WLAN 802.11b Body Back side CH 6 0mm WIFI BT

Communication System: WLAN; Frequency: 2437 MHz; Duty Cycle: 1:0.995

Medium parameters used: f = 2437 MHz; $\sigma = 1.768$ S/m; $\varepsilon_r = 38.819$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN3665; ConvF(7.36, 7.36, 7.36); Calibrated: 2019/8/3

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2020/3/17

Phantom: ELI

DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (71x81x1): Interpolated grid: dx=12 mm, dy=12 mm

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

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

Reference Value = 0.7950 V/m; Power Drift = 0.01 dB

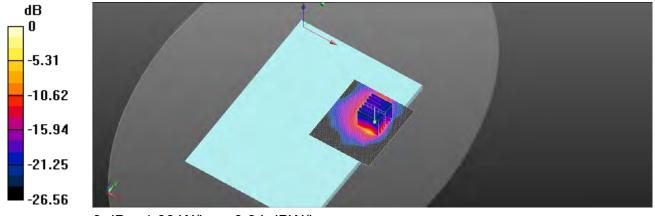
Peak SAR (extrapolated) = 1.71 W/kg

SAR(1 g) = 0.585 W/kg; SAR(10 g) = 0.223 W/kg

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

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

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



0 dB = 1.08 W/kg = 0.34 dBW/kg

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Page: 109 of 121

Date: 2020/6/5

Report No.: E5/2020/40009

WLAN 802.11n(40M) 5.2G Body Back side CH 46 0mm WIFI BT

Communication System: WLAN; Frequency: 5230 MHz; Duty Cycle: 1:0.988

Medium parameters used: f = 5230 MHz; $\sigma = 4.651 \text{ S/m}$; $\varepsilon_r = 35.66$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN3665; ConvF(5.28, 5.28, 5.28); Calibrated: 2019/8/30

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2020/3/17

Phantom: ELI

DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

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

Maximum value of SAR (interpolated) = 1.86 W/kg

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

Reference Value = 1.654 V/m; Power Drift = -0.86 dB

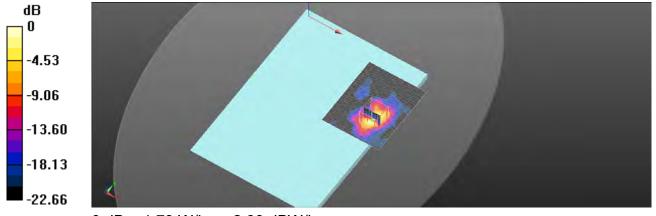
Peak SAR (extrapolated) = 3.98 W/kg

SAR(1 g) = 0.781 W/kg; SAR(10 g) = 0.208 W/kg

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

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

Maximum value of SAR (measured) = 1.73 W/kg



0 dB = 1.73 W/kg = 2.39 dBW/kg

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Page: 110 of 121

Date: 2020/6/5

Report No.: E5/2020/40009

WLAN 802.11ac(80M) 5.2G Body Back side CH 42 0mm WIFI BT

Communication System: WLAN; Frequency: 5210 MHz; Duty Cycle: 1:0.988

Medium parameters used: f = 5210 MHz; $\sigma = 4.632 \text{ S/m}$; $\varepsilon_r = 35.69$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN3665; ConvF(5.28, 5.28, 5.28); Calibrated: 2019/8/30

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2020/3/17

Phantom: ELI

DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

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

Maximum value of SAR (interpolated) = 2.12 W/kg

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

Reference Value = 2.679 V/m; Power Drift = 0.05 dB

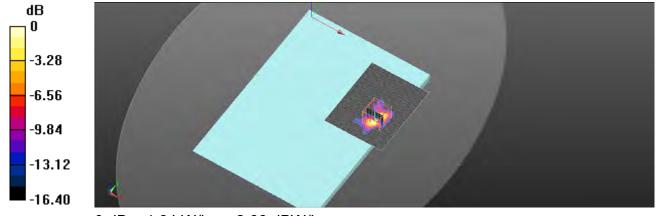
Peak SAR (extrapolated) = 4.34 W/kg

SAR(1 g) = 0.812 W/kg; SAR(10 g) = 0.240 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 56.6%

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



0 dB = 1.84 W/kg = 2.66 dBW/kg

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Page: 111 of 121

Date: 2020/6/6

Report No.: E5/2020/40009

WLAN 802.11n(40M) 5.3G Body Back side CH 62 0mm WIFI BT

Communication System: WLAN; Frequency: 5310 MHz; Duty Cycle: 1:0.988

Medium parameters used: f = 5310 MHz; σ = 4.734 S/m; ϵ_r = 35.559; ρ = 1000 kg/m³

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 21.7°C

DASY5 Configuration:

Probe: EX3DV4 - SN3665; ConvF(5.18, 5.18, 5.18); Calibrated: 2019/8/30

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2020/3/17

Phantom: ELI

DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

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

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

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

Reference Value = 1.456 V/m; Power Drift = 0.03 dB

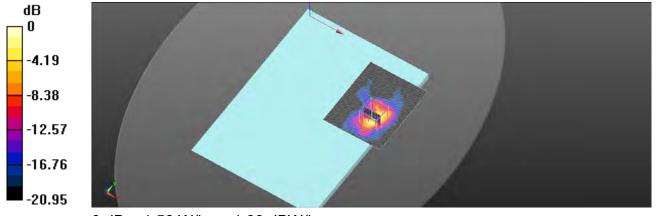
Peak SAR (extrapolated) = 3.98 W/kg

SAR(1 g) = 0.726 W/kg; SAR(10 g) = 0.190 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 59.3%

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



0 dB = 1.56 W/kg = 1.93 dBW/kg

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Page: 112 of 121

Date: 2020/6/6

Report No.: E5/2020/40009

WLAN 802.11ac(80M) 5.3G Body Back side CH 58 0mm WIFI BT

Communication System: WLAN; Frequency: 5290 MHz; Duty Cycle: 1:0.988

Medium parameters used: f = 5290 MHz; $\sigma = 4.716 \text{ S/m}$; $\varepsilon_r = 35.589$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 21.7°C

DASY5 Configuration:

- Probe: EX3DV4 SN3665; ConvF(5.18, 5.18, 5.18); Calibrated: 2019/8/30
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2020/3/17
- Phantom: ELI
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

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

Maximum value of SAR (interpolated) = 2.04 W/kg

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

Reference Value = 3.079 V/m; Power Drift = -0.01 dB

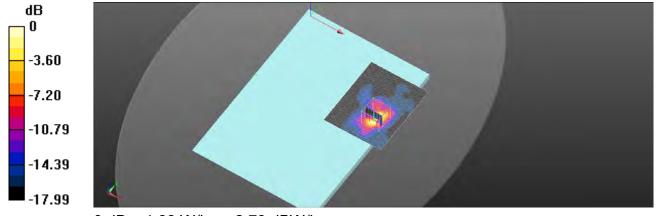
Peak SAR (extrapolated) = 4.43 W/kg

SAR(1 g) = 0.828 W/kg; SAR(10 g) = 0.234 W/kg

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

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

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



0 dB = 1.88 W/kg = 2.73 dBW/kg

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Page: 113 of 121

Date: 2020/5/24

Report No.: E5/2020/40009

WLAN 802.11ac(80M) 5.6G Body Back side CH 138 0mm WIFI BT

Communication System: WLAN; Frequency: 5690 MHz; Duty Cycle: 1:0.988

Medium parameters used: f = 5690 MHz; σ = 5.123 S/m; ϵ_r = 35.132; ρ = 1000 kg/m³

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.9°C

DASY5 Configuration:

- Probe: EX3DV4 SN3665; ConvF(4.99, 4.99, 4.99); Calibrated: 2019/8/30
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2020/3/17
- Phantom: ELI
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

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

Maximum value of SAR (interpolated) = 0.961 W/kg

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

Reference Value = 2.351 V/m; Power Drift = -0.01 dB

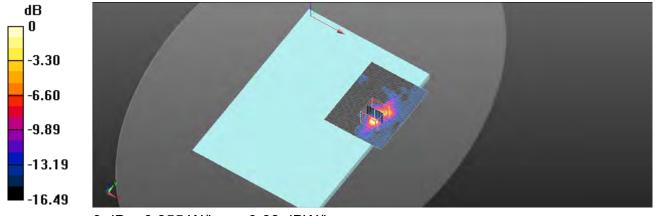
Peak SAR (extrapolated) = 3.08 W/kg

SAR(1 g) = 0.370 W/kg; SAR(10 g) = 0.096 W/kg

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

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

Maximum value of SAR (measured) = 0.855 W/kg



0 dB = 0.855 W/kg = -0.68 dBW/kg

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Page: 114 of 121

6. SAR System Performance Verification

Date: 2020/5/20

Report No.: E5/2020/40009 Dipole 835 MHz_SN:4d063

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used: f = 835 MHz; σ = 0.892 S/m; ε_r = 41.183; ρ = 1000 kg/m³

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.6°C

DASY5 Configuration:

Probe: EX3DV4 - SN3665; ConvF(9.47, 9.47, 9.47); Calibrated: 2019/8/30

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2020/3/17

Phantom: ELI

DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (51x71x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 3.04 W/kg

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

Reference Value = 57.89 V/m; Power Drift = 0.01 dB

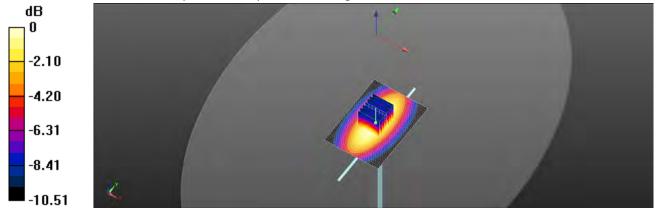
Peak SAR (extrapolated) = 3.64 W/kg

SAR(1 g) = 2.44 W/kg; SAR(10 g) = 1.6 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 66.8%

Maximum value of SAR (measured) = 3.10 W/kg



0 dB = 3.10 W/kg = 4.91 dBW/kg

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Report No.: E5/2020/40009 Page: 115 of 121

Date: 2020/6/4

Report No.: E5/2020/40009 Dipole 2450 MHz SN:727

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

Medium parameters used: f = 2450 MHz; $\sigma = 1.781 \text{ S/m}$; $\epsilon_r = 38.788$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN3665; ConvF(7.36, 7.36, 7.36); Calibrated: 2019/8/3

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2020/3/17

Phantom: ELI

DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

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

Maximum value of SAR (interpolated) = 21.1 W/kg

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

Reference Value = 107.2 V/m; Power Drift = -0.02 dB

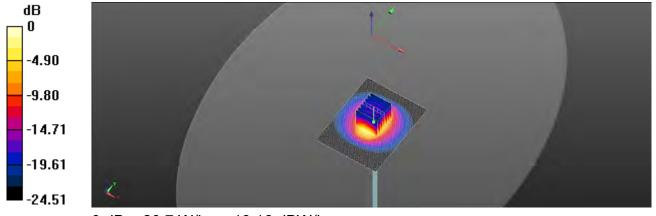
Peak SAR (extrapolated) = 29.4 W/kg

SAR(1 g) = 13.3 W/kg; SAR(10 g) = 6.14 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 43.6%

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



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

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Page: 116 of 121

Date: 2020/6/5

Report No.: E5/2020/40009 **Dipole 5200 MHz SN:1023**

Communication System: CW; Frequency: 5200 MHz; Duty Cycle: 1:1

Medium parameters used: f = 5200 MHz; $\sigma = 4.623 \text{ S/m}$; $\varepsilon_r = 35.698$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

Probe: EX3DV4 - SN3665; ConvF(5.28, 5.28, 5.28); Calibrated: 2019/8/30

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2020/3/17

Phantom: ELI

DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (61x81x1): 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 = 62.01 V/m; Power Drift = 0.02 dB

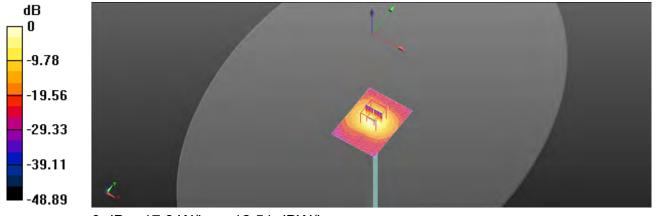
Peak SAR (extrapolated) = 37.8 W/kg

SAR(1 g) = 8.13 W/kg; SAR(10 g) = 2.31 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 50.9%

Maximum value of SAR (measured) = 17.8 W/kg



0 dB = 17.8 W/kg = 12.51 dBW/kg

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Page: 117 of 121

Date: 2020/6/6

Report No.: E5/2020/40009 **Dipole 5300 MHz SN:1023**

Communication System: CW; Frequency: 5300 MHz; Duty Cycle: 1:1

Medium parameters used: f = 5300 MHz; $\sigma = 4.727 \text{ S/m}$; $\varepsilon_r = 35.581$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 21.7°C

DASY5 Configuration:

Probe: EX3DV4 - SN3665; ConvF(5.18, 5.18, 5.18); Calibrated: 2019/8/30

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2020/3/17

Phantom: ELI

DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

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

Maximum value of SAR (interpolated) = 18.6 W/kg

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

Reference Value = 56.87 V/m; Power Drift = 0.02 dB

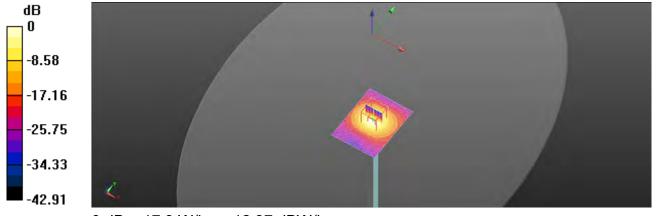
Peak SAR (extrapolated) = 37.0 W/kg

SAR(1 g) = 8.25 W/kg; SAR(10 g) = 2.31 W/kg

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

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

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



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

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Page: 118 of 121

Date: 2020/5/24

Report No.: E5/2020/40009 **Dipole 5600 MHz SN:1023**

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

Medium parameters used: f = 5600 MHz; $\sigma = 5.028 \text{ S/m}$; $\varepsilon_r = 35.255$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.2°C; Liquid temperature: 21.9°C

DASY5 Configuration:

Probe: EX3DV4 - SN3665; ConvF(4.99, 4.99, 4.99); Calibrated: 2019/8/30

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2020/3/17

Phantom: ELI

DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

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

Maximum value of SAR (interpolated) = 20.1 W/kg

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

Reference Value = 56.16 V/m; Power Drift = -0.03 dB

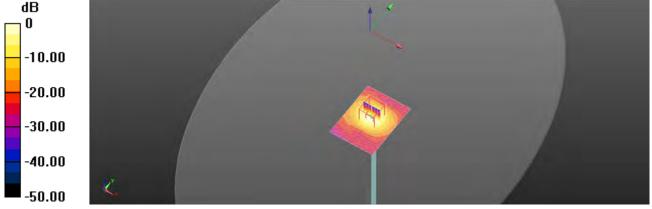
Peak SAR (extrapolated) = 41.6 W/kg

SAR(1 g) = 8.42 W/kg; SAR(10 g) = 2.34 W/kg

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

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

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



0 dB = 18.2 W/kg = 12.61 dBW/kg

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Page: 119 of 121

7. Uncertainty Budget

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

А	С	D	е		f	g	h=c * f / e	i=c * g / e	k
Source of Uncertainty	Tolerance/ Uncertainty	Probability Distributio	Div	Div Value	ci (1g)	ci (10g)	Standard uncertainty	Standard uncertainty	vi, or Veff
Measurement system									
Probe calibration	6.55%	N	1	1	1	1	6.55%	6.55%	∞
Isotropy , Axial	3.50%	R	√3	1.732	1	1	2.02%	2.02%	∞
Isotropy, Hemispherical	9.60%	R	√3	1.732	1	1	5.54%	5.54%	∞
Modulation Response	2.40%	R	√3	1.732	1	1	1.40%	1.40%	∞
Boundary Effect	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Linearity	4.70%	R	√3	1.732	1	1	2.71%	2.71%	∞
Detection Limits	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Readout Electronics	0.30%	N	1	1	1	1	0.30%	0.30%	∞
Response time	0.80%	R	√3	1.732	1	1	0.46%	0.46%	∞
Integration Time	2.60%	R	√3	1.732	1	1	1.50%	1.50%	∞
Measurement drift (class A evaluation)	1.75%	R	√3	1.732	1	1	1.01%	1.01%	∞
RF ambient condition - noise	3.00%	R	√3	1.732	1	1	1.73%	1.73%	∞
RF ambient conditions - reflections	3.00%	R	√3	1.732	1	1	1.73%	1.73%	∞
Probe positioner Mechanical restrictions	0.40%	R	√3	1.732	1	1	0.23%	0.23%	∞
Probe Positioning with respect to phantom shell	2.90%	R	√3	1.732	1	1	1.67%	1.67%	∞
Post-processing	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Max SAR Eval	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Test Sample related									
Test sample positioning	2.90%	N	1	1	1	1	2.90%	2.90%	M-1
Device Holder Uncertainty	3.60%	N	1	1	1	1	3.60%	3.60%	M-1
Drift of output power	5.00%	R	√3	1.732	1	1	2.89%	2.89%	∞
Phantom and Setup									
Phantom Uncertainty	4.00%	R	√3	1.732	1	1	2.31%	2.31%	∞
Liquid permittivity (mea.)	0.84%	N	1	1	0.64	0.43	0.54%	0.36%	М
Liquid Conductivity (mea.)	0.74%	N	1	1	0.6	0.49	0.44%	0.36%	М
Combined standard uncertainty		RSS					11.74%	11.72%	
Expant uncertainty (95% confidence interval), K=2							23.47%	23.44%	

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Page: 120 of 121

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

Α	С	D	е		f	g	h=c * f / e	i=c * g / e	k
Source of Uncertainty	Tolerance/ Uncertainty	Probability Distributio	Div	Div Value	ci (1g)	ci (10g)	Standard uncertainty	Standard uncertainty	vi, or Veff
Measurement system									
Probe calibration	6.00%	N	1	1	1	1	6.00%	6.00%	8
Isotropy , Axial	3.50%	R	√3	1.732	1	1	2.02%	2.02%	∞
Isotropy, Hemispherical	9.60%	R	√3	1.732	1	1	5.54%	5.54%	∞
Modulation Response	2.40%	R	√3	1.732	1	1	1.40%	1.40%	∞
Boundary Effect	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Linearity	4.70%	R	√3	1.732	1	1	2.71%	2.71%	∞
Detection Limits	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Readout Electronics	0.30%	N	1	1	1	1	0.30%	0.30%	∞
Response time	0.80%	R	√3	1.732	1	1	0.46%	0.46%	∞
Integration Time	2.60%	R	√3	1.732	1	1	1.50%	1.50%	∞
Measurement drift (class A evaluation)	1.75%	R	√3	1.732	1	1	1.01%	1.01%	∞
RF ambient condition - noise	3.00%	R	√3	1.732	1	1	1.73%	1.73%	∞
RF ambient conditions - reflections	3.00%	R	√3	1.732	1	1	1.73%	1.73%	∞
Probe positioner Mechanical restrictions	0.40%	R	√3	1.732	1	1	0.23%	0.23%	∞
Probe Positioning with respect to phantom shell	2.90%	R	√3	1.732	1	1	1.67%	1.67%	∞
Post-processing	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Max SAR Eval	1.00%	R	√3	1.732	1	1	0.58%	0.58%	8
Test Sample related									
Test sample positioning	2.90%	N	1	1	1	1	2.90%	2.90%	M-1
Device Holder Uncertainty	3.60%	N	1	1	1	1	3.60%	3.60%	M-1
Drift of output power	5.00%	R	√3	1.732	1	1	2.89%	2.89%	~
Phantom and Setup									
Phantom Uncertainty	4.00%	R	√3	1.732	1	1	2.31%	2.31%	∞
Liquid permittivity (mea.)	1.05%	N	1	1	0.64	0.43	0.67%	0.45%	М
Liquid Conductivity (mea.)	1.14%	N	1	1	0.6	0.49	0.68%	0.56%	М
Combined standard uncertainty		RSS					11.46%	11.43%	
Expant uncertainty (95% confidence interval), K=2							22.92%	22.86%	

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Page: 121 of 121

Appendixes

Refer to separated files for the following appendixes.

E5202040009 SAR Appendix A Photographs

E5202040009 SAR_Appendix B DAE & Probe Cal. Certificate

E5202040009 SAR_Appendix C Phantom Description & Dipole Cal. Certificate

- End of report -

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