SAR TEST REPORT

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

Equipment Under Test	Tablet
Brand Name	HP
Model No.	HSTNH-I508FC
Company Name	Hewlett-Packard Company
Company Address	1501 Page Mill Road, Palo Alto, California 94304, USA
Standards	IEEE /ANSI C95.1 , C95.3, IEEE 1528, KDB248227D01v02r01, KDB616217D04v01r01, KDB865664D01v01r04, KDB865664D02v01r01, KDB941225D01v03,KDB941225D05v02r03, KDB447498D01v05r02
FCC ID	B94HHI508FC
Date of Receipt	Jul. 29, 2015
Date of Test(s)	Aug. 03, 2015 ~ Aug. 11, 2015
Date of Issue	Aug. 20, 2015

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

Remarks:

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

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Signed on behalf of SGS

Sr. Engineer	**Sr. Engineer**
afu Chen	John Yeh
Afu Chen	**John Yeh**
Date: Aug. 20, 2015	**Date: Aug. 20, 2015**

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Version

Report Number	Revision	Date	Memo
EN/2015/70026	00	2015/8/20	Initial creation of test report.

This test report contains a reference to the previous version test report that it replaces.

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1. General Information

1.1 Testing Laboratory

SGS Taiwan Ltd. Electronics & Communication Laboratory	
No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan	
Tel	+886-2-2299-3279
Fax	+886-2-2298-0488
Internet	http://www.tw.sgs.com/

1.2 Details of Applicant

Company Name	Hewlett-Packard Company
Company Address	1501 Page Mill Road M/S1419 Palo Alto, CA 94304 United States

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1.3 Description of EUT

Equipment Under Test	Tablet			
Brand Name	HP			
Model No.	HSTNH-I508FC			
FCC ID	B94HHI508FC			
Mode of Operation	☒LTE ☒WLAN802.11 a/b/g/n(20M/40M)/ac(20M/40M/80M) ☒Bluetooth			
Duty Cycle	LTE	1		
	WLAN802.11 a/b/g/n(20M/40M)/ ac(20M/40M/80M)	1		
	Bluetooth	1		
TX Frequency Range (MHz)	LTE FDD Band II	1850	–	1910
	LTE FDD Band IV	1710	–	1755
	LTE FDD Band V	824	–	849
	LTE FDD Band XIII	704	–	716
	LTE FDD Band XVII	777	–	787
	WLAN802.11 b/g/n(20M)	2412	–	2462
	WLAN802.11 n(40M)	2422	–	2452
	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		
	WLAN802.11 a/n(20M)/ac(20M) 5.3G	5260	–	5320
	WLAN802.11 n(40M)/ac(40M) 5.3G	5270	–	5310
	WLAN802.11 ac(80M) 5.3G	5290		
	WLAN802.11 a/n(20M) 5.6G	5500	–	5700
	WLAN802.11 ac(20M) 5.6G	5500	–	5720
	WLAN802.11 n(40M) 5.6G	5510	–	5670
	WLAN802.11 ac(40M) 5.6G	5510	–	5710
	WLAN802.11 ac(80M) 5.6G	5530	–	5690

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TX Frequency Range (MHz)	WLAN802.11 a/n(20M)/ac(20M) 5.8G	5745	–	5825
	WLAN802.11 n(40M)/ac(40M) 5.8G	5710	–	5795
	WLAN802.11 ac(80M) 5.8G	5775		
	Bluetooth	2402	–	2480
Channel Number (ARFCN)	LTE FDD Band II	18607	–	19193
	LTE FDD Band IV	19957	–	20393
	LTE FDD Band V	20407	–	20643
	LTE FDD Band XIII	23205	–	23255
	LTE FDD Band XVII	23755	–	23825
	WLAN802.11 b/g/n(20M)	1	–	11
	WLAN802.11 n(40M)	3	–	9
	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
	WLAN802.11 n(40M)/ac(40M) 5.3G	54	–	62
	WLAN802.11 ac(80M) 5.3G	58		
	WLAN802.11 a/n(20M) 5.6G	100	–	140
	WLAN802.11 ac(20M) 5.6G	100	–	144
	WLAN802.11 n(40M) 5.6G	102	–	134
	WLAN802.11 ac(40M) 5.6G	102	–	142
	WLAN802.11 ac(80M) 5.6G	106	–	138
	WLAN802.11 a/n(20M)/ac(20M) 5.8G	149	–	165
	WLAN802.11 n(40M)/ac(40M) 5.8G	142	–	159
	WLAN802.11 ac(80M) 5.8G	155		
	Bluetooth	0	–	78

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Max. SAR (1 g) (Unit: W/Kg)_WWAN				
Band	Measured	Reported	Channel	Position
LTE FDD Band II	0.978	1.404	18700	Back side
LTE FDD Band IV	0.911	1.320	20050	Back side
LTE FDD Band V	0.659	0.991	20600	Back side
LTE FDD Band XIII	0.618	0.975	23200	Back side
LTE FDD Band XVII	0.863	1.318	23790	Back side

Max. SAR (1 g) (Unit: W/Kg)_WLAN					
Antenna	Band	Measured	Reported	Channel	Position
Main	WLAN802.11 b	1.17	1.214	11	Left side
	WLAN802.11 g	1.15	1.163	6	Left side
	WLAN802.11 n(40M)	1.03	1.076	6	Left side
	WLAN802.11 ac(80M) 5.2G	1.14	1.159	42	Left side
	WLAN802.11 ac(80M) 5.3G	1.01	1.055	58	Left side
	WLAN802.11 ac(80M) 5.6G	1	1.076	138	Back side
	WLAN802.11 ac(80M) 5.8G	0.47	0.482	155	Left side
Aux	WLAN802.11 b	0.921	0.925	11	Back side
	WLAN802.11 g	0.752	0.754	6	Back side
	WLAN802.11 n(40M)	0.786	0.801	6	Back side
	WLAN802.11 ac(80M) 5.2G	0.442	0.445	42	Back side
	WLAN802.11 ac(80M) 5.3G	0.463	0.478	58	Back side
	WLAN802.11 ac(80M) 5.6G	1.13	1.181	138	Back side
	WLAN802.11 ac(80M) 5.8G	0.81	0.814	155	Back side

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LTE FDD Band II / Band IV / Band V / Band XIII / Band XVII power table:

FDD Band 2 (Full Power)								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
20	QPSK	1 RB	0	1860	18700	23.54	24	0
				1880	18900	23.60	24	0
				1900	19100	23.84	24	0
			50	1860	18700	22.89	24	0
				1880	18900	23.25	24	0
				1900	19100	22.90	24	0
			99	1860	18700	22.91	24	0
				1880	18900	22.74	24	0
				1900	19100	22.71	24	0
		50 RB	0	1860	18700	22.59	23	0-1
				1880	18900	22.70	23	0-1
				1900	19100	22.66	23	0-1
			25	1860	18700	22.34	23	0-1
				1880	18900	22.33	23	0-1
				1900	19100	22.19	23	0-1
			50	1860	18700	22.24	23	0-1
				1880	18900	22.25	23	0-1
				1900	19100	22.13	23	0-1
		100RB		1860	18700	22.45	23	0-1
				1880	18900	22.53	23	0-1
				1900	19100	22.37	23	0-1
	16-QAM	1 RB	0	1860	18700	22.92	23	0-1
				1880	18900	22.91	23	0-1
				1900	19100	22.97	23	0-1
			50	1860	18700	22.66	23	0-1
				1880	18900	22.52	23	0-1
				1900	19100	22.44	23	0-1
			99	1860	18700	22.17	23	0-1
				1880	18900	21.95	23	0-1
				1900	19100	21.86	23	0-1
		50 RB	0	1860	18700	21.55	22	0-2
				1880	18900	21.69	22	0-2
				1900	19100	21.55	22	0-2
			25	1860	18700	21.20	22	0-2
				1880	18900	21.33	22	0-2
				1900	19100	21.08	22	0-2
			50	1860	18700	21.29	22	0-2
				1880	18900	21.31	22	0-2
				1900	19100	21.11	22	0-2
		100RB		1860	18700	21.38	22	0-2
				1880	18900	21.48	22	0-2
				1900	19100	21.21	22	0-2

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FDD Band 2 (Full Power)								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
15	QPSK	1 RB	0	1857.5	18675	23.55	24	0
				1880	18900	23.78	24	0
				1902.5	19125	23.79	24	0
			36	1857.5	18675	23.14	24	0
				1880	18900	23.45	24	0
				1902.5	19125	23.17	24	0
			74	1857.5	18675	23.17	24	0
				1880	18900	23.29	24	0
				1902.5	19125	22.91	24	0
		36 RB	0	1857.5	18675	22.58	23	0-1
				1880	18900	22.68	23	0-1
				1902.5	19125	22.65	23	0-1
			18	1857.5	18675	22.31	23	0-1
				1880	18900	22.53	23	0-1
				1902.5	19125	22.27	23	0-1
			37	1857.5	18675	22.25	23	0-1
				1880	18900	22.39	23	0-1
				1902.5	19125	22.28	23	0-1
		75RB		1857.5	18675	22.42	23	0-1
				1880	18900	22.61	23	0-1
				1902.5	19125	22.42	23	0-1
	16-QAM	1 RB	0	1857.5	18675	22.92	23	0-1
				1880	18900	23.21	23	0-1
				1902.5	19125	23.20	23	0-1
			36	1857.5	18675	22.22	23	0-1
				1880	18900	22.42	23	0-1
				1902.5	19125	22.29	23	0-1
			74	1857.5	18675	22.53	23	0-1
				1880	18900	22.58	23	0-1
				1902.5	19125	22.55	23	0-1
		36 RB	0	1857.5	18675	21.58	22	0-2
				1880	18900	21.73	22	0-2
				1902.5	19125	21.61	22	0-2
			18	1857.5	18675	21.32	22	0-2
				1880	18900	21.53	22	0-2
				1902.5	19125	21.24	22	0-2
			37	1857.5	18675	21.30	22	0-2
				1880	18900	21.33	22	0-2
				1902.5	19125	21.20	22	0-2
		75RB		1857.5	18675	21.38	22	0-2
				1880	18900	21.62	22	0-2
				1902.5	19125	21.38	22	0-2

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FDD Band 2 (Full Power)								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
10	QPSK	1 RB	0	1855	18650	23.37	24	0
				1880	18900	23.64	24	0
				1905	19150	23.46	24	0
			25	1855	18650	23.23	24	0
				1880	18900	23.30	24	0
				1905	19150	23.06	24	0
			49	1855	18650	23.20	24	0
				1880	18900	23.22	24	0
				1905	19150	23.09	24	0
		25 RB	0	1855	18650	22.40	23	0-1
				1880	18900	22.60	23	0-1
				1905	19150	22.40	23	0-1
			12	1855	18650	22.28	23	0-1
				1880	18900	22.41	23	0-1
				1905	19150	22.21	23	0-1
			25	1855	18650	22.32	23	0-1
				1880	18900	22.38	23	0-1
				1905	19150	22.14	23	0-1
		50RB		1855	18650	22.31	23	0-1
				1880	18900	22.47	23	0-1
				1905	19150	22.32	23	0-1
	16-QAM	1 RB	0	1855	18650	22.56	23	0-1
				1880	18900	23.00	23	0-1
				1905	19150	22.89	23	0-1
			25	1855	18650	22.74	23	0-1
				1880	18900	22.91	23	0-1
				1905	19150	22.51	23	0-1
			49	1855	18650	22.41	23	0-1
				1880	18900	22.79	23	0-1
				1905	19150	22.47	23	0-1
		25 RB	0	1855	18650	21.40	22	0-2
				1880	18900	21.50	22	0-2
				1905	19150	21.39	22	0-2
			12	1855	18650	21.34	22	0-2
				1880	18900	21.41	22	0-2
				1905	19150	21.19	22	0-2
			25	1855	18650	21.29	22	0-2
				1880	18900	21.29	22	0-2
				1905	19150	21.10	22	0-2
		50RB		1855	18650	21.29	22	0-2
				1880	18900	21.53	22	0-2
				1905	19150	21.28	22	0-2

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FDD Band 2 (Full Power)								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
5	QPSK	1 RB	0	1852.5	18625	23.26	24	0
				1880	18900	23.26	24	0
				1907.5	19175	23.27	24	0
			12	1852.5	18625	23.10	24	0
				1880	18900	23.27	24	0
				1907.5	19175	23.09	24	0
			24	1852.5	18625	23.04	24	0
				1880	18900	23.16	24	0
				1907.5	19175	22.98	24	0
		12 RB	0	1852.5	18625	22.29	23	0-1
				1880	18900	22.42	23	0-1
				1907.5	19175	22.32	23	0-1
			6	1852.5	18625	22.24	23	0-1
				1880	18900	22.37	23	0-1
				1907.5	19175	22.20	23	0-1
			13	1852.5	18625	22.15	23	0-1
				1880	18900	22.34	23	0-1
				1907.5	19175	22.16	23	0-1
		25RB		1852.5	18625	22.16	23	0-1
				1880	18900	22.44	23	0-1
				1907.5	19175	22.13	23	0-1
	16-QAM	1 RB	0	1852.5	18625	22.60	23	0-1
				1880	18900	22.94	23	0-1
				1907.5	19175	22.09	23	0-1
			12	1852.5	18625	22.37	23	0-1
				1880	18900	22.76	23	0-1
				1907.5	19175	22.57	23	0-1
			24	1852.5	18625	21.93	23	0-1
				1880	18900	22.49	23	0-1
				1907.5	19175	22.49	23	0-1
		12 RB	0	1852.5	18625	21.40	22	0-2
				1880	18900	21.51	22	0-2
				1907.5	19175	21.38	22	0-2
			6	1852.5	18625	21.23	22	0-2
				1880	18900	21.38	22	0-2
				1907.5	19175	21.25	22	0-2
			13	1852.5	18625	21.17	22	0-2
				1880	18900	21.41	22	0-2
				1907.5	19175	21.13	22	0-2
		25RB		1852.5	18625	21.31	22	0-2
				1880	18900	21.35	22	0-2
				1907.5	19175	21.28	22	0-2

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FDD Band 2 (Full Power)								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
3	QPSK	1 RB	0	1851.5	18615	23.27	24	0
				1880	18900	23.38	24	0
				1908.5	19185	23.17	24	0
			7	1851.5	18615	23.03	24	0
				1880	18900	23.31	24	0
				1908.5	19185	23.12	24	0
			14	1851.5	18615	23.04	24	0
				1880	18900	23.23	24	0
				1908.5	19185	23.00	24	0
		8 RB	0	1851.5	18615	22.28	23	0-1
				1880	18900	22.44	23	0-1
				1908.5	19185	22.20	23	0-1
			4	1851.5	18615	22.27	23	0-1
				1880	18900	22.17	23	0-1
				1908.5	19185	22.14	23	0-1
			7	1851.5	18615	22.18	23	0-1
				1880	18900	22.32	23	0-1
				1908.5	19185	22.21	23	0-1
		15RB		1851.5	18615	22.18	23	0-1
				1880	18900	22.43	23	0-1
				1908.5	19185	22.26	23	0-1
	16-QAM	1 RB	0	1851.5	18615	21.97	23	0-1
				1880	18900	22.59	23	0-1
				1908.5	19185	22.42	23	0-1
			7	1851.5	18615	22.63	23	0-1
				1880	18900	22.76	23	0-1
				1908.5	19185	22.63	23	0-1
			14	1851.5	18615	22.42	23	0-1
				1880	18900	22.36	23	0-1
				1908.5	19185	22.15	23	0-1
		8 RB	0	1851.5	18615	21.36	22	0-2
				1880	18900	21.50	22	0-2
				1908.5	19185	21.23	22	0-2
			4	1851.5	18615	21.24	22	0-2
				1880	18900	21.59	22	0-2
				1908.5	19185	21.26	22	0-2
			7	1851.5	18615	21.19	22	0-2
				1880	18900	21.44	22	0-2
				1908.5	19185	21.22	22	0-2
		15RB		1851.5	18615	21.14	22	0-2
				1880	18900	21.53	22	0-2
				1908.5	19185	21.26	22	0-2

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FDD Band 2 (Full Power)								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
1.4	QPSK	1 RB	0	1850.7	18607	23.07	24	0
				1880	18900	23.39	24	0
				1909.3	19193	23.20	24	0
			2	1850.7	18607	23.12	24	0
				1880	18900	23.39	24	0
				1909.3	19193	23.12	24	0
			5	1850.7	18607	23.06	24	0
				1880	18900	23.35	24	0
				1909.3	19193	23.23	24	0
		3 RB	0	1850.7	18607	22.85	23	0-1
				1880	18900	22.80	23	0-1
				1909.3	19193	22.94	23	0-1
			2	1850.7	18607	22.95	23	0-1
				1880	18900	22.97	23	0-1
				1909.3	19193	22.93	23	0-1
			3	1850.7	18607	22.90	23	0-1
				1880	18900	22.85	23	0-1
				1909.3	19193	22.77	23	0-1
		6RB		1850.7	18607	22.13	23	0-1
				1880	18900	22.44	23	0-1
				1909.3	19193	22.24	23	0-1
	16-QAM	1 RB	0	1850.7	18607	22.57	23	0-1
				1880	18900	22.86	23	0-1
				1909.3	19193	22.71	23	0-1
			2	1850.7	18607	22.05	23	0-1
				1880	18900	22.88	23	0-1
				1909.3	19193	22.41	23	0-1
			5	1850.7	18607	22.57	23	0-1
				1880	18900	22.50	23	0-1
				1909.3	19193	22.35	23	0-1
		3 RB	0	1850.7	18607	22.00	22	0-2
				1880	18900	21.87	22	0-2
				1909.3	19193	21.93	22	0-2
			2	1850.7	18607	21.94	22	0-2
				1880	18900	21.95	22	0-2
				1909.3	19193	21.91	22	0-2
			3	1850.7	18607	21.96	22	0-2
				1880	18900	21.94	22	0-2
				1909.3	19193	21.96	22	0-2
		6RB		1850.7	18607	21.40	22	0-2
				1880	18900	21.64	22	0-2
				1909.3	19193	21.25	22	0-2

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FDD Band 2 (Reduced Power)								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
20	QPSK	1 RB	0	1860	18700	17.58	19	0
				1880	18900	17.83	19	0
				1900	19100	17.78	19	0
			50	1860	18700	17.20	19	0
				1880	18900	17.03	19	0
				1900	19100	17.04	19	0
			99	1860	18700	17.07	19	0
				1880	18900	17.00	19	0
				1900	19100	17.01	19	0
		50 RB	0	1860	18700	16.47	18	0-1
				1880	18900	16.74	18	0-1
				1900	19100	16.70	18	0-1
			25	1860	18700	16.34	18	0-1
				1880	18900	16.40	18	0-1
				1900	19100	16.13	18	0-1
			50	1860	18700	16.31	18	0-1
				1880	18900	16.20	18	0-1
				1900	19100	16.08	18	0-1
		100RB		1860	18700	16.43	18	0-1
				1880	18900	16.40	18	0-1
				1900	19100	16.32	18	0-1
	16-QAM	1 RB	0	1860	18700	16.95	18	0-1
				1880	18900	16.90	18	0-1
				1900	19100	16.96	18	0-1
			50	1860	18700	16.40	18	0-1
				1880	18900	16.77	18	0-1
				1900	19100	16.35	18	0-1
			99	1860	18700	16.12	18	0-1
				1880	18900	16.02	18	0-1
				1900	19100	16.37	18	0-1
		50 RB	0	1860	18700	15.52	17	0-2
				1880	18900	15.54	17	0-2
				1900	19100	15.36	17	0-2
			25	1860	18700	15.20	17	0-2
				1880	18900	15.21	17	0-2
				1900	19100	15.05	17	0-2
			50	1860	18700	15.13	17	0-2
				1880	18900	15.10	17	0-2
				1900	19100	15.01	17	0-2
		100RB		1860	18700	15.22	17	0-2
				1880	18900	15.38	17	0-2
				1900	19100	15.23	17	0-2

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FDD Band 2 (Reduced Power)								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
15	QPSK	1 RB	0	1857.5	18675	17.59	19	0
				1880	18900	18.00	19	0
				1902.5	19125	17.90	19	0
			36	1857.5	18675	17.20	19	0
				1880	18900	17.37	19	0
				1902.5	19125	17.13	19	0
			74	1857.5	18675	17.09	19	0
				1880	18900	17.30	19	0
				1902.5	19125	17.10	19	0
		36 RB	0	1857.5	18675	16.52	18	0-1
				1880	18900	16.67	18	0-1
				1902.5	19125	16.56	18	0-1
			18	1857.5	18675	16.30	18	0-1
				1880	18900	16.43	18	0-1
				1902.5	19125	16.28	18	0-1
			37	1857.5	18675	16.35	18	0-1
				1880	18900	16.32	18	0-1
				1902.5	19125	16.26	18	0-1
		75RB		1857.5	18675	16.41	18	0-1
				1880	18900	16.52	18	0-1
				1902.5	19125	16.43	18	0-1
	16-QAM	1 RB	0	1857.5	18675	16.75	18	0-1
				1880	18900	16.84	18	0-1
				1902.5	19125	16.86	18	0-1
			36	1857.5	18675	16.44	18	0-1
				1880	18900	16.35	18	0-1
				1902.5	19125	16.24	18	0-1
			74	1857.5	18675	16.47	18	0-1
				1880	18900	16.31	18	0-1
				1902.5	19125	16.51	18	0-1
		36 RB	0	1857.5	18675	15.46	17	0-2
				1880	18900	15.61	17	0-2
				1902.5	19125	15.36	17	0-2
			18	1857.5	18675	15.30	17	0-2
				1880	18900	15.34	17	0-2
				1902.5	19125	15.10	17	0-2
			37	1857.5	18675	15.19	17	0-2
				1880	18900	15.27	17	0-2
				1902.5	19125	15.00	17	0-2
		75RB		1857.5	18675	15.20	17	0-2
				1880	18900	15.42	17	0-2
				1902.5	19125	15.19	17	0-2

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FDD Band 2 (Reduced Power)								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
10	QPSK	1 RB	0	1855	18650	17.51	19	0
				1880	18900	17.76	19	0
				1905	19150	17.65	19	0
			25	1855	18650	17.35	19	0
				1880	18900	17.40	19	0
				1905	19150	17.17	19	0
			49	1855	18650	17.36	19	0
				1880	18900	17.37	19	0
				1905	19150	17.19	19	0
		25 RB	0	1855	18650	16.35	18	0-1
				1880	18900	16.50	18	0-1
				1905	19150	16.34	18	0-1
			12	1855	18650	16.18	18	0-1
				1880	18900	16.30	18	0-1
				1905	19150	16.21	18	0-1
			25	1855	18650	16.25	18	0-1
				1880	18900	16.35	18	0-1
				1905	19150	16.19	18	0-1
		50RB		1855	18650	16.38	18	0-1
				1880	18900	16.46	18	0-1
				1905	19150	16.35	18	0-1
	16-QAM	1 RB	0	1855	18650	16.91	18	0-1
				1880	18900	16.98	18	0-1
				1905	19150	16.80	18	0-1
			25	1855	18650	16.54	18	0-1
				1880	18900	16.92	18	0-1
				1905	19150	16.34	18	0-1
			49	1855	18650	16.57	18	0-1
				1880	18900	16.88	18	0-1
				1905	19150	16.37	18	0-1
		25 RB	0	1855	18650	15.27	17	0-2
				1880	18900	15.49	17	0-2
				1905	19150	15.41	17	0-2
			12	1855	18650	15.20	17	0-2
				1880	18900	15.35	17	0-2
				1905	19150	15.07	17	0-2
			25	1855	18650	15.17	17	0-2
				1880	18900	15.34	17	0-2
				1905	19150	15.14	17	0-2
		50RB		1855	18650	15.17	17	0-2
				1880	18900	15.38	17	0-2
				1905	19150	15.13	17	0-2

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FDD Band 2 (Reduced Power)								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
5	QPSK	1 RB	0	1852.5	18625	17.25	19	0
				1880	18900	17.56	19	0
				1907.5	19175	17.21	19	0
			12	1852.5	18625	17.30	19	0
				1880	18900	17.42	19	0
				1907.5	19175	17.25	19	0
			24	1852.5	18625	17.01	19	0
				1880	18900	17.23	19	0
				1907.5	19175	17.11	19	0
		12 RB	0	1852.5	18625	16.27	18	0-1
				1880	18900	16.56	18	0-1
				1907.5	19175	16.19	18	0-1
			6	1852.5	18625	16.19	18	0-1
				1880	18900	16.42	18	0-1
				1907.5	19175	16.22	18	0-1
			13	1852.5	18625	16.10	18	0-1
				1880	18900	16.36	18	0-1
				1907.5	19175	16.11	18	0-1
		25RB		1852.5	18625	16.27	18	0-1
				1880	18900	16.41	18	0-1
				1907.5	19175	16.21	18	0-1
	16-QAM	1 RB	0	1852.5	18625	16.53	18	0-1
				1880	18900	16.62	18	0-1
				1907.5	19175	16.67	18	0-1
			12	1852.5	18625	16.34	18	0-1
				1880	18900	16.86	18	0-1
				1907.5	19175	16.33	18	0-1
			24	1852.5	18625	16.31	18	0-1
				1880	18900	16.77	18	0-1
				1907.5	19175	16.19	18	0-1
		12 RB	0	1852.5	18625	15.24	17	0-2
				1880	18900	15.42	17	0-2
				1907.5	19175	15.22	17	0-2
			6	1852.5	18625	15.23	17	0-2
				1880	18900	15.32	17	0-2
				1907.5	19175	15.08	17	0-2
			13	1852.5	18625	15.15	17	0-2
				1880	18900	15.28	17	0-2
				1907.5	19175	15.02	17	0-2
		25RB		1852.5	18625	15.01	17	0-2
				1880	18900	15.33	17	0-2
				1907.5	19175	15.04	17	0-2

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FDD Band 2 (Reduced Power)								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
3	QPSK	1 RB	0	1851.5	18615	17.32	19	0
				1880	18900	17.37	19	0
				1908.5	19185	17.21	19	0
			7	1851.5	18615	17.20	19	0
				1880	18900	17.30	19	0
				1908.5	19185	17.11	19	0
			14	1851.5	18615	17.14	19	0
				1880	18900	17.28	19	0
				1908.5	19185	17.11	19	0
		8 RB	0	1851.5	18615	16.24	18	0-1
				1880	18900	16.39	18	0-1
				1908.5	19185	16.31	18	0-1
			4	1851.5	18615	16.20	18	0-1
				1880	18900	16.38	18	0-1
				1908.5	19185	16.16	18	0-1
			7	1851.5	18615	16.15	18	0-1
				1880	18900	16.42	18	0-1
				1908.5	19185	16.19	18	0-1
		15RB		1851.5	18615	16.23	18	0-1
				1880	18900	16.33	18	0-1
				1908.5	19185	16.28	18	0-1
	16-QAM	1 RB	0	1851.5	18615	16.40	18	0-1
				1880	18900	16.97	18	0-1
				1908.5	19185	16.33	18	0-1
			7	1851.5	18615	16.40	18	0-1
				1880	18900	16.62	18	0-1
				1908.5	19185	16.13	18	0-1
			14	1851.5	18615	16.61	18	0-1
				1880	18900	16.25	18	0-1
				1908.5	19185	16.60	18	0-1
		8 RB	0	1851.5	18615	15.10	17	0-2
				1880	18900	15.43	17	0-2
				1908.5	19185	15.25	17	0-2
			4	1851.5	18615	15.31	17	0-2
				1880	18900	15.38	17	0-2
				1908.5	19185	15.15	17	0-2
			7	1851.5	18615	15.30	17	0-2
				1880	18900	15.29	17	0-2
				1908.5	19185	15.27	17	0-2
		15RB		1851.5	18615	15.12	17	0-2
				1880	18900	15.40	17	0-2
				1908.5	19185	15.16	17	0-2

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FDD Band 2 (Reduced Power)								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
1.4	QPSK	1 RB	0	1850.7	18607	17.14	19	0
				1880	18900	17.43	19	0
				1909.3	19193	17.23	19	0
			2	1850.7	18607	17.13	19	0
				1880	18900	17.38	19	0
				1909.3	19193	17.24	19	0
			5	1850.7	18607	17.20	19	0
				1880	18900	17.47	19	0
				1909.3	19193	17.20	19	0
		3 RB	0	1850.7	18607	16.79	18	0-1
				1880	18900	16.97	18	0-1
				1909.3	19193	16.71	18	0-1
			2	1850.7	18607	16.68	18	0-1
				1880	18900	16.39	18	0-1
				1909.3	19193	16.58	18	0-1
			3	1850.7	18607	16.17	18	0-1
				1880	18900	16.42	18	0-1
				1909.3	19193	16.23	18	0-1
		6RB		1850.7	18607	16.14	18	0-1
				1880	18900	16.36	18	0-1
				1909.3	19193	16.18	18	0-1
	16-QAM	1 RB	0	1850.7	18607	16.53	18	0-1
				1880	18900	16.50	18	0-1
				1909.3	19193	16.67	18	0-1
			2	1850.7	18607	16.45	18	0-1
				1880	18900	16.93	18	0-1
				1909.3	19193	16.59	18	0-1
			5	1850.7	18607	16.37	18	0-1
				1880	18900	16.83	18	0-1
				1909.3	19193	16.36	18	0-1
		3 RB	0	1850.7	18607	15.84	17	0-2
				1880	18900	15.96	17	0-2
				1909.3	19193	15.85	17	0-2
			2	1850.7	18607	15.97	17	0-2
				1880	18900	15.95	17	0-2
				1909.3	19193	15.93	17	0-2
			3	1850.7	18607	15.85	17	0-2
				1880	18900	15.98	17	0-2
				1909.3	19193	15.92	17	0-2
		6RB		1850.7	18607	15.09	17	0-2
				1880	18900	15.39	17	0-2
				1909.3	19193	15.17	17	0-2

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FDD Band 4 (Full Power)								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
20	QPSK	1 RB	0	1720	20050	23.90	24	0
				1732.5	20175	23.95	24	0
				1745	20300	23.97	24	0
			50	1720	20050	23.55	24	0
				1732.5	20175	23.55	24	0
				1745	20300	23.73	24	0
			99	1720	20050	23.48	24	0
				1732.5	20175	23.40	24	0
				1745	20300	23.59	24	0
		50 RB	0	1720	20050	22.98	23	0-1
				1732.5	20175	22.91	23	0-1
				1745	20300	22.81	23	0-1
			25	1720	20050	22.69	23	0-1
				1732.5	20175	22.61	23	0-1
				1745	20300	22.90	23	0-1
			50	1720	20050	22.61	23	0-1
				1732.5	20175	22.64	23	0-1
				1745	20300	22.84	23	0-1
		100RB		1720	20050	22.86	23	0-1
				1732.5	20175	22.85	23	0-1
				1745	20300	22.98	23	0-1
	16-QAM	1 RB	0	1720	20050	22.84	23	0-1
				1732.5	20175	22.98	23	0-1
				1745	20300	22.95	23	0-1
			50	1720	20050	22.58	23	0-1
				1732.5	20175	22.89	23	0-1
				1745	20300	22.72	23	0-1
			99	1720	20050	22.79	23	0-1
				1732.5	20175	22.53	23	0-1
				1745	20300	23.00	23	0-1
		50 RB	0	1720	20050	21.99	22	0-2
				1732.5	20175	21.91	22	0-2
				1745	20300	22.00	22	0-2
			25	1720	20050	21.61	22	0-2
				1732.5	20175	21.63	22	0-2
				1745	20300	21.84	22	0-2
			50	1720	20050	21.55	22	0-2
				1732.5	20175	21.55	22	0-2
				1745	20300	21.73	22	0-2
		100RB		1720	20050	21.71	22	0-2
				1732.5	20175	21.70	22	0-2
				1745	20300	21.88	22	0-2

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FDD Band 4 (Full Power)								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
15	QPSK	1 RB	0	1717.5	20025	23.97	24	0
				1732.5	20175	23.93	24	0
				1747.5	20325	23.99	24	0
			36	1717.5	20025	23.71	24	0
				1732.5	20175	23.69	24	0
				1747.5	20325	23.87	24	0
			74	1717.5	20025	23.56	24	0
				1732.5	20175	23.45	24	0
				1747.5	20325	23.95	24	0
		36 RB	0	1717.5	20025	22.97	23	0-1
				1732.5	20175	22.88	23	0-1
				1747.5	20325	22.99	23	0-1
			18	1717.5	20025	22.73	23	0-1
				1732.5	20175	22.70	23	0-1
				1747.5	20325	22.92	23	0-1
			37	1717.5	20025	22.72	23	0-1
				1732.5	20175	22.65	23	0-1
				1747.5	20325	22.98	23	0-1
		75RB		1717.5	20025	22.78	23	0-1
				1732.5	20175	22.78	23	0-1
				1747.5	20325	23.13	23	0-1
	16-QAM	1 RB	0	1717.5	20025	22.95	23	0-1
				1732.5	20175	22.97	23	0-1
				1747.5	20325	22.89	23	0-1
			36	1717.5	20025	22.26	23	0-1
				1732.5	20175	22.83	23	0-1
				1747.5	20325	22.91	23	0-1
			74	1717.5	20025	22.63	23	0-1
				1732.5	20175	22.77	23	0-1
				1747.5	20325	22.87	23	0-1
		36 RB	0	1717.5	20025	21.95	22	0-2
				1732.5	20175	21.88	22	0-2
				1747.5	20325	21.97	22	0-2
			18	1717.5	20025	21.63	22	0-2
				1732.5	20175	21.69	22	0-2
				1747.5	20325	21.89	22	0-2
			37	1717.5	20025	21.58	22	0-2
				1732.5	20175	21.59	22	0-2
				1747.5	20325	21.98	22	0-2
		75RB		1717.5	20025	21.72	22	0-2
				1732.5	20175	21.75	22	0-2
				1747.5	20325	21.97	22	0-2

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FDD Band 4 (Full Power)								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
10	QPSK	1 RB	0	1715	20000	23.98	24	0
				1732.5	20175	23.88	24	0
				1750	20350	23.99	24	0
			25	1715	20000	23.56	24	0
				1732.5	20175	23.65	24	0
				1750	20350	23.97	24	0
			49	1715	20000	23.62	24	0
				1732.5	20175	23.80	24	0
				1750	20350	23.83	24	0
		25 RB	0	1715	20000	22.75	23	0-1
				1732.5	20175	22.83	23	0-1
				1750	20350	22.88	23	0-1
			12	1715	20000	22.63	23	0-1
				1732.5	20175	22.62	23	0-1
				1750	20350	22.91	23	0-1
			25	1715	20000	22.59	23	0-1
				1732.5	20175	22.69	23	0-1
				1750	20350	22.96	23	0-1
		50RB		1715	20000	22.70	23	0-1
				1732.5	20175	22.81	23	0-1
				1750	20350	22.94	23	0-1
	16-QAM	1 RB	0	1715	20000	22.91	23	0-1
				1732.5	20175	22.97	23	0-1
				1750	20350	22.90	23	0-1
			25	1715	20000	22.81	23	0-1
				1732.5	20175	22.72	23	0-1
				1750	20350	22.89	23	0-1
			49	1715	20000	22.94	23	0-1
				1732.5	20175	22.92	23	0-1
				1750	20350	22.93	23	0-1
		25 RB	0	1715	20000	21.77	22	0-2
				1732.5	20175	21.77	22	0-2
				1750	20350	21.98	22	0-2
			12	1715	20000	21.60	22	0-2
				1732.5	20175	21.63	22	0-2
				1750	20350	21.94	22	0-2
			25	1715	20000	21.59	22	0-2
				1732.5	20175	21.62	22	0-2
				1750	20350	21.88	22	0-2
		50RB		1715	20000	21.71	22	0-2
				1732.5	20175	21.72	22	0-2
				1750	20350	21.92	22	0-2

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FDD Band 4 (Full Power)								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
5	QPSK	1 RB	0	1712.5	19975	23.76	24	0
				1732.5	20175	23.70	24	0
				1752.5	20375	23.92	24	0
			12	1712.5	19975	23.80	24	0
				1732.5	20175	23.56	24	0
				1752.5	20375	23.88	24	0
			24	1712.5	19975	23.83	24	0
				1732.5	20175	23.59	24	0
				1752.5	20375	23.78	24	0
		12 RB	0	1712.5	19975	22.79	23	0-1
				1732.5	20175	22.72	23	0-1
				1752.5	20375	22.99	23	0-1
			6	1712.5	19975	22.70	23	0-1
				1732.5	20175	22.69	23	0-1
				1752.5	20375	23.00	23	0-1
			13	1712.5	19975	22.62	23	0-1
				1732.5	20175	22.67	23	0-1
				1752.5	20375	22.91	23	0-1
		25RB		1712.5	19975	22.64	23	0-1
				1732.5	20175	22.66	23	0-1
				1752.5	20375	22.96	23	0-1
	16-QAM	1 RB	0	1712.5	19975	22.78	23	0-1
				1732.5	20175	22.89	23	0-1
				1752.5	20375	22.93	23	0-1
			12	1712.5	19975	22.55	23	0-1
				1732.5	20175	22.76	23	0-1
				1752.5	20375	22.84	23	0-1
			24	1712.5	19975	22.99	23	0-1
				1732.5	20175	22.54	23	0-1
				1752.5	20375	22.93	23	0-1
		12 RB	0	1712.5	19975	21.66	22	0-2
				1732.5	20175	21.80	22	0-2
				1752.5	20375	21.98	22	0-2
			6	1712.5	19975	21.62	22	0-2
				1732.5	20175	21.64	22	0-2
				1752.5	20375	21.91	22	0-2
			13	1712.5	19975	21.54	22	0-2
				1732.5	20175	21.59	22	0-2
				1752.5	20375	21.91	22	0-2
		25RB		1712.5	19975	21.66	22	0-2
				1732.5	20175	21.58	22	0-2
				1752.5	20375	22.00	22	0-2

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FDD Band 4 (Full Power)								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
3	QPSK	1 RB	0	1711.5	19965	23.67	24	0
				1732.5	20175	23.65	24	0
				1753.5	20385	23.83	24	0
			7	1711.5	19965	23.66	24	0
				1732.5	20175	23.68	24	0
				1753.5	20385	23.87	24	0
			14	1711.5	19965	23.60	24	0
				1732.5	20175	23.54	24	0
				1753.5	20385	23.92	24	0
		8 RB	0	1711.5	19965	22.69	23	0-1
				1732.5	20175	22.68	23	0-1
				1753.5	20385	23.00	23	0-1
			4	1711.5	19965	22.66	23	0-1
				1732.5	20175	22.72	23	0-1
				1753.5	20385	22.91	23	0-1
			7	1711.5	19965	22.62	23	0-1
				1732.5	20175	22.81	23	0-1
				1753.5	20385	23.94	23	0-1
		15RB		1711.5	19965	22.74	23	0-1
				1732.5	20175	22.72	23	0-1
				1753.5	20385	22.92	23	0-1
	16-QAM	1 RB	0	1711.5	19965	22.97	23	0-1
				1732.5	20175	22.86	23	0-1
				1753.5	20385	22.96	23	0-1
			7	1711.5	19965	23.00	23	0-1
				1732.5	20175	22.91	23	0-1
				1753.5	20385	22.85	23	0-1
			14	1711.5	19965	22.46	23	0-1
				1732.5	20175	22.73	23	0-1
				1753.5	20385	22.97	23	0-1
		8 RB	0	1711.5	19965	21.69	22	0-2
				1732.5	20175	21.67	22	0-2
				1753.5	20385	21.98	22	0-2
			4	1711.5	19965	21.66	22	0-2
				1732.5	20175	21.66	22	0-2
				1753.5	20385	21.89	22	0-2
			7	1711.5	19965	21.79	22	0-2
				1732.5	20175	21.75	22	0-2
				1753.5	20385	21.93	22	0-2
		15RB		1711.5	19965	21.63	22	0-2
				1732.5	20175	21.68	22	0-2
				1753.5	20385	21.95	22	0-2

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FDD Band 4 (Full Power)								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
1.4	QPSK	1 RB	0	1710.7	19957	23.78	24	0
				1732.5	20175	23.72	24	0
				1754.3	20393	23.94	24	0
			2	1710.7	19957	23.77	24	0
				1732.5	20175	23.63	24	0
				1754.3	20393	23.98	24	0
			5	1710.7	19957	23.69	24	0
				1732.5	20175	23.73	24	0
				1754.3	20393	23.99	24	0
		3 RB	0	1710.7	19957	22.71	23	0-1
				1732.5	20175	22.76	23	0-1
				1754.3	20393	22.80	23	0-1
			2	1710.7	19957	22.97	23	0-1
				1732.5	20175	22.93	23	0-1
				1754.3	20393	22.99	23	0-1
			3	1710.7	19957	22.92	23	0-1
				1732.5	20175	22.96	23	0-1
				1754.3	20393	22.93	23	0-1
		6RB		1710.7	19957	22.87	23	0-1
				1732.5	20175	22.76	23	0-1
				1754.3	20393	22.90	23	0-1
	16-QAM	1 RB	0	1710.7	19957	22.84	23	0-1
				1732.5	20175	22.99	23	0-1
				1754.3	20393	22.99	23	0-1
			2	1710.7	19957	22.88	23	0-1
				1732.5	20175	22.65	23	0-1
				1754.3	20393	23.00	23	0-1
			5	1710.7	19957	22.98	23	0-1
				1732.5	20175	22.92	23	0-1
				1754.3	20393	22.96	23	0-1
		3 RB	0	1710.7	19957	21.64	22	0-2
				1732.5	20175	21.72	22	0-2
				1754.3	20393	21.95	22	0-2
			2	1710.7	19957	21.65	22	0-2
				1732.5	20175	22.71	22	0-2
				1754.3	20393	21.50	22	0-2
			3	1710.7	19957	21.80	22	0-2
				1732.5	20175	21.70	22	0-2
				1754.3	20393	21.16	22	0-2
		6RB		1710.7	19957	21.79	22	0-2
				1732.5	20175	21.75	22	0-2
				1754.3	20393	21.15	22	0-2

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FDD Band 4 (Reduced Power)								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
20	QPSK	1 RB	0	1720	20050	17.32	18.5	0
				1732.5	20175	17.17	18.5	0
				1745	20300	17.13	18.5	0
			50	1720	20050	16.57	18.5	0
				1732.5	20175	16.54	18.5	0
				1745	20300	16.65	18.5	0
			99	1720	20050	16.57	18.5	0
				1732.5	20175	16.55	18.5	0
				1745	20300	16.56	18.5	0
		50 RB	0	1720	20050	16.12	17.5	0-1
				1732.5	20175	15.98	17.5	0-1
				1745	20300	15.94	17.5	0-1
			25	1720	20050	15.77	17.5	0-1
				1732.5	20175	15.65	17.5	0-1
				1745	20300	15.76	17.5	0-1
			50	1720	20050	15.76	17.5	0-1
				1732.5	20175	15.56	17.5	0-1
				1745	20300	15.73	17.5	0-1
		100RB		1720	20050	15.89	17.5	0-1
				1732.5	20175	15.79	17.5	0-1
				1745	20300	15.91	17.5	0-1
	16-QAM	1 RB	0	1720	20050	16.47	17.5	0-1
				1732.5	20175	16.40	17.5	0-1
				1745	20300	16.36	17.5	0-1
			50	1720	20050	15.89	17.5	0-1
				1732.5	20175	16.17	17.5	0-1
				1745	20300	16.11	17.5	0-1
			99	1720	20050	15.99	17.5	0-1
				1732.5	20175	15.70	17.5	0-1
				1745	20300	15.51	17.5	0-1
		50 RB	0	1720	20050	14.94	16.5	0-2
				1732.5	20175	14.77	16.5	0-2
				1745	20300	14.79	16.5	0-2
			25	1720	20050	14.58	16.5	0-2
				1732.5	20175	14.56	16.5	0-2
				1745	20300	14.60	16.5	0-2
			50	1720	20050	14.59	16.5	0-2
				1732.5	20175	14.58	16.5	0-2
				1745	20300	14.62	16.5	0-2
		100RB		1720	20050	14.62	16.5	0-2
				1732.5	20175	14.59	16.5	0-2
				1745	20300	14.68	16.5	0-2

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FDD Band 4 (Reduced Power)								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
15	QPSK	1 RB	0	1717.5	20025	17.40	18.5	0
				1732.5	20175	16.98	18.5	0
				1747.5	20325	17.17	18.5	0
			36	1717.5	20025	16.69	18.5	0
				1732.5	20175	16.63	18.5	0
				1747.5	20325	16.77	18.5	0
			74	1717.5	20025	16.66	18.5	0
				1732.5	20175	16.52	18.5	0
				1747.5	20325	16.68	18.5	0
		36 RB	0	1717.5	20025	16.02	17.5	0-1
				1732.5	20175	15.84	17.5	0-1
				1747.5	20325	15.97	17.5	0-1
			18	1717.5	20025	15.68	17.5	0-1
				1732.5	20175	15.68	17.5	0-1
				1747.5	20325	15.77	17.5	0-1
			37	1717.5	20025	15.59	17.5	0-1
				1732.5	20175	15.54	17.5	0-1
				1747.5	20325	15.83	17.5	0-1
		75RB		1717.5	20025	15.79	17.5	0-1
				1732.5	20175	15.63	17.5	0-1
				1747.5	20325	15.90	17.5	0-1
	16-QAM	1 RB	0	1717.5	20025	16.46	17.5	0-1
				1732.5	20175	16.16	17.5	0-1
				1747.5	20325	16.42	17.5	0-1
			36	1717.5	20025	15.73	17.5	0-1
				1732.5	20175	16.06	17.5	0-1
				1747.5	20325	16.29	17.5	0-1
			74	1717.5	20025	15.75	17.5	0-1
				1732.5	20175	15.85	17.5	0-1
				1747.5	20325	16.23	17.5	0-1
		36 RB	0	1717.5	20025	14.90	16.5	0-2
				1732.5	20175	14.79	16.5	0-2
				1747.5	20325	14.80	16.5	0-2
			18	1717.5	20025	14.60	16.5	0-2
				1732.5	20175	14.58	16.5	0-2
				1747.5	20325	14.75	16.5	0-2
			37	1717.5	20025	14.58	16.5	0-2
				1732.5	20175	14.52	16.5	0-2
				1747.5	20325	14.69	16.5	0-2
		75RB		1717.5	20025	14.51	16.5	0-2
				1732.5	20175	14.58	16.5	0-2
				1747.5	20325	14.72	16.5	0-2

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FDD Band 4 (Reduced Power)								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
10	QPSK	1 RB	0	1715	20000	16.99	18.5	0
				1732.5	20175	16.97	18.5	0
				1750	20350	17.11	18.5	0
			25	1715	20000	16.82	18.5	0
				1732.5	20175	16.66	18.5	0
				1750	20350	16.78	18.5	0
			49	1715	20000	16.56	18.5	0
				1732.5	20175	16.71	18.5	0
				1750	20350	16.85	18.5	0
		25 RB	0	1715	20000	15.85	17.5	0-1
				1732.5	20175	15.73	17.5	0-1
				1750	20350	16.01	17.5	0-1
			12	1715	20000	15.77	17.5	0-1
				1732.5	20175	15.58	17.5	0-1
				1750	20350	15.86	17.5	0-1
			25	1715	20000	15.50	17.5	0-1
				1732.5	20175	15.57	17.5	0-1
				1750	20350	15.82	17.5	0-1
		50RB		1715	20000	15.69	17.5	0-1
				1732.5	20175	15.71	17.5	0-1
				1750	20350	16.03	17.5	0-1
	16-QAM	1 RB	0	1715	20000	15.83	17.5	0-1
				1732.5	20175	16.01	17.5	0-1
				1750	20350	16.37	17.5	0-1
			25	1715	20000	15.59	17.5	0-1
				1732.5	20175	15.66	17.5	0-1
				1750	20350	15.91	17.5	0-1
			49	1715	20000	15.57	17.5	0-1
				1732.5	20175	15.73	17.5	0-1
				1750	20350	16.08	17.5	0-1
		25 RB	0	1715	20000	14.72	16.5	0-2
				1732.5	20175	14.69	16.5	0-2
				1750	20350	14.73	16.5	0-2
			12	1715	20000	14.54	16.5	0-2
				1732.5	20175	14.59	16.5	0-2
				1750	20350	14.74	16.5	0-2
			25	1715	20000	14.59	16.5	0-2
				1732.5	20175	14.56	16.5	0-2
				1750	20350	14.90	16.5	0-2
		50RB		1715	20000	14.53	16.5	0-2
				1732.5	20175	14.65	16.5	0-2
				1750	20350	14.94	16.5	0-2

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FDD Band 4 (Reduced Power)								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
5	QPSK	1 RB	0	1712.5	19975	16.83	18.5	0
				1732.5	20175	16.78	18.5	0
				1752.5	20375	16.90	18.5	0
			12	1712.5	19975	16.77	18.5	0
				1732.5	20175	16.66	18.5	0
				1752.5	20375	16.84	18.5	0
			24	1712.5	19975	16.71	18.5	0
				1732.5	20175	16.64	18.5	0
				1752.5	20375	16.98	18.5	0
		12 RB	0	1712.5	19975	15.72	17.5	0-1
				1732.5	20175	15.66	17.5	0-1
				1752.5	20375	15.89	17.5	0-1
			6	1712.5	19975	15.69	17.5	0-1
				1732.5	20175	15.53	17.5	0-1
				1752.5	20375	15.82	17.5	0-1
			13	1712.5	19975	15.57	17.5	0-1
				1732.5	20175	15.55	17.5	0-1
				1752.5	20375	15.84	17.5	0-1
		25RB		1712.5	19975	15.64	17.5	0-1
				1732.5	20175	15.57	17.5	0-1
				1752.5	20375	15.83	17.5	0-1
	16-QAM	1 RB	0	1712.5	19975	16.33	17.5	0-1
				1732.5	20175	15.57	17.5	0-1
				1752.5	20375	16.25	17.5	0-1
			12	1712.5	19975	16.05	17.5	0-1
				1732.5	20175	16.16	17.5	0-1
				1752.5	20375	16.14	17.5	0-1
			24	1712.5	19975	15.72	17.5	0-1
				1732.5	20175	16.03	17.5	0-1
				1752.5	20375	15.87	17.5	0-1
		12 RB	0	1712.5	19975	14.61	16.5	0-2
				1732.5	20175	14.60	16.5	0-2
				1752.5	20375	14.81	16.5	0-2
			6	1712.5	19975	14.53	16.5	0-2
				1732.5	20175	14.54	16.5	0-2
				1752.5	20375	14.68	16.5	0-2
			13	1712.5	19975	14.62	16.5	0-2
				1732.5	20175	14.54	16.5	0-2
				1752.5	20375	14.80	16.5	0-2
		25RB		1712.5	19975	14.69	16.5	0-2
				1732.5	20175	14.57	16.5	0-2
				1752.5	20375	14.82	16.5	0-2

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FDD Band 4 (Reduced Power)								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
3	QPSK	1 RB	0	1711.5	19965	16.93	18.5	0
				1732.5	20175	16.75	18.5	0
				1753.5	20385	16.96	18.5	0
			7	1711.5	19965	16.74	18.5	0
				1732.5	20175	16.75	18.5	0
				1753.5	20385	16.90	18.5	0
			14	1711.5	19965	16.75	18.5	0
				1732.5	20175	16.60	18.5	0
				1753.5	20385	16.90	18.5	0
		8 RB	0	1711.5	19965	15.77	17.5	0-1
				1732.5	20175	15.74	17.5	0-1
				1753.5	20385	15.92	17.5	0-1
			4	1711.5	19965	15.67	17.5	0-1
				1732.5	20175	15.62	17.5	0-1
				1753.5	20385	15.89	17.5	0-1
			7	1711.5	19965	15.65	17.5	0-1
				1732.5	20175	15.59	17.5	0-1
				1753.5	20385	15.85	17.5	0-1
		15RB		1711.5	19965	15.78	17.5	0-1
				1732.5	20175	15.61	17.5	0-1
				1753.5	20385	15.93	17.5	0-1
	16-QAM	1 RB	0	1711.5	19965	15.90	17.5	0-1
				1732.5	20175	15.88	17.5	0-1
				1753.5	20385	16.00	17.5	0-1
			7	1711.5	19965	15.84	17.5	0-1
				1732.5	20175	15.59	17.5	0-1
				1753.5	20385	16.44	17.5	0-1
			14	1711.5	19965	15.96	17.5	0-1
				1732.5	20175	15.64	17.5	0-1
				1753.5	20385	16.30	17.5	0-1
		8 RB	0	1711.5	19965	14.80	16.5	0-2
				1732.5	20175	14.63	16.5	0-2
				1753.5	20385	14.86	16.5	0-2
			4	1711.5	19965	14.69	16.5	0-2
				1732.5	20175	14.51	16.5	0-2
				1753.5	20385	14.65	16.5	0-2
			7	1711.5	19965	14.70	16.5	0-2
				1732.5	20175	14.54	16.5	0-2
				1753.5	20385	14.90	16.5	0-2
		15RB		1711.5	19965	14.60	16.5	0-2
				1732.5	20175	14.61	16.5	0-2
				1753.5	20385	15.00	16.5	0-2

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FDD Band 4 (Reduced Power)								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
1.4	QPSK	1 RB	0	1710.7	19957	16.72	18.5	0
				1732.5	20175	16.72	18.5	0
				1754.3	20393	17.02	18.5	0
			2	1710.7	19957	16.78	18.5	0
				1732.5	20175	16.62	18.5	0
				1754.3	20393	16.90	18.5	0
			5	1710.7	19957	16.75	18.5	0
				1732.5	20175	16.67	18.5	0
				1754.3	20393	16.93	18.5	0
		3 RB	0	1710.7	19957	16.46	17.5	0-1
				1732.5	20175	16.43	17.5	0-1
				1754.3	20393	16.49	17.5	0-1
			2	1710.7	19957	16.36	17.5	0-1
				1732.5	20175	16.40	17.5	0-1
				1754.3	20393	16.28	17.5	0-1
			3	1710.7	19957	16.29	17.5	0-1
				1732.5	20175	16.48	17.5	0-1
				1754.3	20393	16.35	17.5	0-1
		6RB		1710.7	19957	15.74	17.5	0-1
				1732.5	20175	15.63	17.5	0-1
				1754.3	20393	15.96	17.5	0-1
	16-QAM	1 RB	0	1710.7	19957	16.18	17.5	0-1
				1732.5	20175	16.01	17.5	0-1
				1754.3	20393	16.23	17.5	0-1
			2	1710.7	19957	15.79	17.5	0-1
				1732.5	20175	15.53	17.5	0-1
				1754.3	20393	15.76	17.5	0-1
			5	1710.7	19957	15.88	17.5	0-1
				1732.5	20175	15.82	17.5	0-1
				1754.3	20393	16.40	17.5	0-1
		3 RB	0	1710.7	19957	15.42	16.5	0-2
				1732.5	20175	15.37	16.5	0-2
				1754.3	20393	15.40	16.5	0-2
			2	1710.7	19957	15.38	16.5	0-2
				1732.5	20175	15.24	16.5	0-2
				1754.3	20393	15.42	16.5	0-2
			3	1710.7	19957	15.38	16.5	0-2
				1732.5	20175	15.38	16.5	0-2
				1754.3	20393	15.41	16.5	0-2
		6RB		1710.7	19957	14.61	16.5	0-2
				1732.5	20175	14.70	16.5	0-2
				1754.3	20393	14.96	16.5	0-2

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FDD Band 5 (Full Power)								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
10	QPSK	1 RB	0	829	20450	23.10	24	0
				836.5	20525	23.06	24	0
				844	20600	23.24	24	0
			25	829	20450	22.90	24	0
				836.5	20525	22.99	24	0
				844	20600	23.16	24	0
			49	829	20450	22.90	24	0
				836.5	20525	22.86	24	0
				844	20600	22.90	24	0
		25 RB	0	829	20450	22.13	23	0-1
				836.5	20525	22.10	23	0-1
				844	20600	22.11	23	0-1
			12	829	20450	22.01	23	0-1
				836.5	20525	22.08	23	0-1
				844	20600	22.10	23	0-1
			25	829	20450	21.90	23	0-1
				836.5	20525	21.90	23	0-1
				844	20600	22.10	23	0-1
		50RB		829	20450	22.07	23	0-1
				836.5	20525	22.00	23	0-1
				844	20600	22.05	23	0-1
	16-QAM	1 RB	0	829	20450	22.52	23	0-1
				836.5	20525	22.55	23	0-1
				844	20600	21.89	23	0-1
			25	829	20450	22.18	23	0-1
				836.5	20525	22.45	23	0-1
				844	20600	21.83	23	0-1
			49	829	20450	22.10	23	0-1
				836.5	20525	22.23	23	0-1
				844	20600	22.32	23	0-1
		25 RB	0	829	20450	21.03	22	0-2
				836.5	20525	21.00	22	0-2
				844	20600	21.10	22	0-2
			12	829	20450	20.93	22	0-2
				836.5	20525	20.89	22	0-2
				844	20600	21.12	22	0-2
			25	829	20450	20.81	22	0-2
				836.5	20525	20.97	22	0-2
				844	20600	21.06	22	0-2
		50RB		829	20450	21.00	22	0-2
				836.5	20525	20.97	22	0-2
				844	20600	21.14	22	0-2

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FDD Band 5 (Full Power)								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
5	QPSK	1 RB	0	826.5	20425	23.08	24	0
				836.5	20525	22.97	24	0
				846.5	20625	23.06	24	0
			12	826.5	20425	23.06	24	0
				836.5	20525	22.93	24	0
				846.5	20625	23.11	24	0
			24	826.5	20425	22.88	24	0
				836.5	20525	22.80	24	0
				846.5	20625	23.14	24	0
		12 RB	0	826.5	20425	22.29	23	0-1
				836.5	20525	22.11	23	0-1
				846.5	20625	22.11	23	0-1
			6	826.5	20425	22.21	23	0-1
				836.5	20525	22.11	23	0-1
				846.5	20625	22.19	23	0-1
			13	826.5	20425	22.18	23	0-1
				836.5	20525	22.07	23	0-1
				846.5	20625	22.19	23	0-1
		25RB		826.5	20425	22.24	23	0-1
				836.5	20525	22.08	23	0-1
				846.5	20625	22.15	23	0-1
	16-QAM	1 RB	0	826.5	20425	22.13	23	0-1
				836.5	20525	22.05	23	0-1
				846.5	20625	22.14	23	0-1
			12	826.5	20425	22.12	23	0-1
				836.5	20525	22.43	23	0-1
				846.5	20625	22.29	23	0-1
			24	826.5	20425	22.27	23	0-1
				836.5	20525	22.18	23	0-1
				846.5	20625	21.72	23	0-1
		12 RB	0	826.5	20425	21.11	22	0-2
				836.5	20525	20.97	22	0-2
				846.5	20625	21.05	22	0-2
			6	826.5	20425	21.08	22	0-2
				836.5	20525	21.09	22	0-2
				846.5	20625	21.07	22	0-2
			13	826.5	20425	20.99	22	0-2
				836.5	20525	20.94	22	0-2
				846.5	20625	21.14	22	0-2
		25RB		826.5	20425	21.11	22	0-2
				836.5	20525	20.97	22	0-2
				846.5	20625	21.19	22	0-2

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FDD Band 5 (Full Power)								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
3	QPSK	1 RB	0	825.5	20415	23.22	24	0
				836.5	20525	22.97	24	0
				847.5	20635	23.09	24	0
			7	825.5	20415	23.08	24	0
				836.5	20525	22.91	24	0
				847.5	20635	22.99	24	0
			14	825.5	20415	22.93	24	0
				836.5	20525	22.99	24	0
				847.5	20635	22.99	24	0
		8 RB	0	825.5	20415	22.23	23	0-1
				836.5	20525	22.04	23	0-1
				847.5	20635	22.22	23	0-1
			4	825.5	20415	22.18	23	0-1
				836.5	20525	22.08	23	0-1
				847.5	20635	22.15	23	0-1
			7	825.5	20415	22.15	23	0-1
				836.5	20525	22.02	23	0-1
				847.5	20635	22.15	23	0-1
		15RB		825.5	20415	22.15	23	0-1
				836.5	20525	22.03	23	0-1
				847.5	20635	22.10	23	0-1
	16-QAM	1 RB	0	825.5	20415	22.32	23	0-1
				836.5	20525	22.00	23	0-1
				847.5	20635	21.93	23	0-1
			7	825.5	20415	21.90	23	0-1
				836.5	20525	21.82	23	0-1
				847.5	20635	22.19	23	0-1
			14	825.5	20415	22.09	23	0-1
				836.5	20525	22.40	23	0-1
				847.5	20635	22.20	23	0-1
		8 RB	0	825.5	20415	21.24	22	0-2
				836.5	20525	21.10	22	0-2
				847.5	20635	21.17	22	0-2
			4	825.5	20415	21.17	22	0-2
				836.5	20525	21.05	22	0-2
				847.5	20635	21.23	22	0-2
			7	825.5	20415	21.02	22	0-2
				836.5	20525	20.92	22	0-2
				847.5	20635	21.25	22	0-2
		15RB		825.5	20415	21.15	22	0-2
				836.5	20525	21.09	22	0-2
				847.5	20635	21.12	22	0-2

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FDD Band 5 (Full Power)								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
1.4	QPSK	1 RB	0	824.7	20407	23.23	24	0
				836.5	20525	22.85	24	0
				848.3	20643	23.15	24	0
			2	824.7	20407	23.16	24	0
				836.5	20525	22.97	24	0
				848.3	20643	23.08	24	0
			5	824.7	20407	23.07	24	0
				836.5	20525	23.02	24	0
				848.3	20643	23.02	24	0
		3 RB	0	824.7	20407	22.92	23	0-1
				836.5	20525	22.95	23	0-1
				848.3	20643	22.18	23	0-1
			2	824.7	20407	22.14	23	0-1
				836.5	20525	22.80	23	0-1
				848.3	20643	22.20	23	0-1
			3	824.7	20407	22.18	23	0-1
				836.5	20525	22.04	23	0-1
				848.3	20643	22.10	23	0-1
		6RB		824.7	20407	22.24	23	0-1
				836.5	20525	22.07	23	0-1
				848.3	20643	22.08	23	0-1
	16-QAM	1 RB	0	824.7	20407	22.17	23	0-1
				836.5	20525	22.14	23	0-1
				848.3	20643	22.52	23	0-1
			2	824.7	20407	22.62	23	0-1
				836.5	20525	21.87	23	0-1
				848.3	20643	22.12	23	0-1
			5	824.7	20407	22.13	23	0-1
				836.5	20525	22.10	23	0-1
				848.3	20643	21.81	23	0-1
		3 RB	0	824.7	20407	21.95	22	0-2
				836.5	20525	21.93	22	0-2
				848.3	20643	21.98	22	0-2
			2	824.7	20407	21.89	22	0-2
				836.5	20525	21.84	22	0-2
				848.3	20643	21.75	22	0-2
			3	824.7	20407	21.83	22	0-2
				836.5	20525	21.95	22	0-2
				848.3	20643	21.19	22	0-2
		6RB		824.7	20407	21.09	22	0-2
				836.5	20525	21.14	22	0-2
				848.3	20643	21.22	22	0-2

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FDD Band 5 (Reduced Power)								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
10	QPSK	1 RB	0	829	20450	20.33	22	0
				836.5	20525	20.17	22	0
				844	20600	20.28	22	0
			25	829	20450	20.06	22	0
				836.5	20525	20.01	22	0
				844	20600	20.11	22	0
			49	829	20450	20.02	22	0
				836.5	20525	20.09	22	0
				844	20600	20.12	22	0
		25 RB	0	829	20450	19.32	21	0-1
				836.5	20525	19.13	21	0-1
				844	20600	19.14	21	0-1
			12	829	20450	19.13	21	0-1
				836.5	20525	19.09	21	0-1
				844	20600	19.20	21	0-1
			25	829	20450	19.07	21	0-1
				836.5	20525	19.06	21	0-1
				844	20600	19.25	21	0-1
		50RB		829	20450	19.18	21	0-1
				836.5	20525	19.15	21	0-1
				844	20600	19.23	21	0-1
	16-QAM	1 RB	0	829	20450	19.48	21	0-1
				836.5	20525	19.45	21	0-1
				844	20600	19.30	21	0-1
			25	829	20450	19.40	21	0-1
				836.5	20525	19.33	21	0-1
				844	20600	19.22	21	0-1
			49	829	20450	19.50	21	0-1
				836.5	20525	19.40	21	0-1
				844	20600	19.00	21	0-1
		25 RB	0	829	20450	18.32	20	0-2
				836.5	20525	18.10	20	0-2
				844	20600	18.12	20	0-2
			12	829	20450	18.05	20	0-2
				836.5	20525	18.10	20	0-2
				844	20600	18.13	20	0-2
			25	829	20450	18.09	20	0-2
				836.5	20525	18.18	20	0-2
				844	20600	18.04	20	0-2
		50RB		829	20450	18.25	20	0-2
				836.5	20525	18.18	20	0-2
				844	20600	18.20	20	0-2

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FDD Band 5 (Reduced Power)								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
5	QPSK	1 RB	0	826.5	20425	20.17	22	0
				836.5	20525	20.03	22	0
				846.5	20625	20.01	22	0
			12	826.5	20425	20.16	22	0
				836.5	20525	20.18	22	0
				846.5	20625	20.07	22	0
			24	826.5	20425	20.14	22	0
				836.5	20525	20.11	22	0
				846.5	20625	20.02	22	0
		12 RB	0	826.5	20425	19.29	21	0-1
				836.5	20525	19.13	21	0-1
				846.5	20625	19.21	21	0-1
			6	826.5	20425	19.15	21	0-1
				836.5	20525	19.11	21	0-1
				846.5	20625	19.21	21	0-1
			13	826.5	20425	19.10	21	0-1
				836.5	20525	19.10	21	0-1
				846.5	20625	19.16	21	0-1
		25RB		826.5	20425	19.26	21	0-1
				836.5	20525	19.16	21	0-1
				846.5	20625	19.18	21	0-1
	16-QAM	1 RB	0	826.5	20425	19.40	21	0-1
				836.5	20525	19.11	21	0-1
				846.5	20625	19.32	21	0-1
			12	826.5	20425	19.31	21	0-1
				836.5	20525	19.14	21	0-1
				846.5	20625	19.49	21	0-1
			24	826.5	20425	19.45	21	0-1
				836.5	20525	19.44	21	0-1
				846.5	20625	19.43	21	0-1
		12 RB	0	826.5	20425	18.15	20	0-2
				836.5	20525	18.25	20	0-2
				846.5	20625	18.19	20	0-2
			6	826.5	20425	18.09	20	0-2
				836.5	20525	18.17	20	0-2
				846.5	20625	18.09	20	0-2
			13	826.5	20425	18.06	20	0-2
				836.5	20525	18.03	20	0-2
				846.5	20625	18.16	20	0-2
		25RB		826.5	20425	18.18	20	0-2
				836.5	20525	18.06	20	0-2
				846.5	20625	18.20	20	0-2

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FDD Band 5 (Reduced Power)								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
3	QPSK	1 RB	0	825.5	20415	20.21	22	0
				836.5	20525	20.16	22	0
				847.5	20635	20.13	22	0
			7	825.5	20415	20.16	22	0
				836.5	20525	20.02	22	0
				847.5	20635	20.17	22	0
			14	825.5	20415	20.02	22	0
				836.5	20525	20.19	22	0
				847.5	20635	20.05	22	0
		8 RB	0	825.5	20415	19.24	21	0-1
				836.5	20525	19.12	21	0-1
				847.5	20635	19.24	21	0-1
			4	825.5	20415	19.22	21	0-1
				836.5	20525	19.07	21	0-1
				847.5	20635	19.19	21	0-1
			7	825.5	20415	19.24	21	0-1
				836.5	20525	19.13	21	0-1
				847.5	20635	19.17	21	0-1
		15RB		825.5	20415	19.22	21	0-1
				836.5	20525	19.12	21	0-1
				847.5	20635	19.15	21	0-1
	16-QAM	1 RB	0	825.5	20415	19.35	21	0-1
				836.5	20525	19.21	21	0-1
				847.5	20635	19.45	21	0-1
			7	825.5	20415	19.31	21	0-1
				836.5	20525	19.42	21	0-1
				847.5	20635	19.46	21	0-1
			14	825.5	20415	19.24	21	0-1
				836.5	20525	19.24	21	0-1
				847.5	20635	19.26	21	0-1
		8 RB	0	825.5	20415	18.30	20	0-2
				836.5	20525	18.14	20	0-2
				847.5	20635	18.24	20	0-2
			4	825.5	20415	18.22	20	0-2
				836.5	20525	18.14	20	0-2
				847.5	20635	18.18	20	0-2
			7	825.5	20415	18.24	20	0-2
				836.5	20525	18.22	20	0-2
				847.5	20635	18.11	20	0-2
		15RB		825.5	20415	18.20	20	0-2
				836.5	20525	18.17	20	0-2
				847.5	20635	18.28	20	0-2

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FDD Band 5 (Reduced Power)								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
1.4	QPSK	1 RB	0	824.7	20407	20.24	22	0
				836.5	20525	20.02	22	0
				848.3	20643	20.13	22	0
			2	824.7	20407	20.23	22	0
				836.5	20525	20.05	22	0
				848.3	20643	20.15	22	0
			5	824.7	20407	20.11	22	0
				836.5	20525	20.02	22	0
				848.3	20643	20.08	22	0
		3 RB	0	824.7	20407	19.55	21	0-1
				836.5	20525	19.41	21	0-1
				848.3	20643	19.22	21	0-1
			2	824.7	20407	19.21	21	0-1
				836.5	20525	19.01	21	0-1
				848.3	20643	19.21	21	0-1
			3	824.7	20407	19.15	21	0-1
				836.5	20525	19.05	21	0-1
				848.3	20643	19.12	21	0-1
		6RB		824.7	20407	19.22	21	0-1
				836.5	20525	19.17	21	0-1
				848.3	20643	19.24	21	0-1
	16-QAM	1 RB	0	824.7	20407	19.37	21	0-1
				836.5	20525	19.09	21	0-1
				848.3	20643	19.19	21	0-1
			2	824.7	20407	19.50	21	0-1
				836.5	20525	19.43	21	0-1
				848.3	20643	19.44	21	0-1
			5	824.7	20407	19.47	21	0-1
				836.5	20525	19.43	21	0-1
				848.3	20643	19.39	21	0-1
		3 RB	0	824.7	20407	18.33	20	0-2
				836.5	20525	18.18	20	0-2
				848.3	20643	18.24	20	0-2
			2	824.7	20407	18.22	20	0-2
				836.5	20525	18.15	20	0-2
				848.3	20643	18.29	20	0-2
			3	824.7	20407	18.27	20	0-2
				836.5	20525	18.12	20	0-2
				848.3	20643	18.14	20	0-2
		6RB		824.7	20407	18.29	20	0-2
				836.5	20525	18.24	20	0-2
				848.3	20643	18.32	20	0-2

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FDD Band 13 (Full Power)								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
10	QPSK	1 RB	0	782	23230	22.72	24	0
			25	782	23230	22.74	24	0
			49	782	23230	22.28	24	0
		25 RB	0	782	23230	22.32	23	0-1
			12	782	23230	22.17	23	0-1
			25	782	23230	22.18	23	0-1
		50RB		782	23230	22.22	23	0-1
	16-QAM	1 RB	0	782	23230	22.25	23	0-1
			25	782	23230	22.35	23	0-1
			49	782	23230	21.46	23	0-1
		25 RB	0	782	23230	21.03	22	0-2
			12	782	23230	21.01	22	0-2
			25	782	23230	21.00	22	0-2
		50RB		782	23230	21.16	22	0-2

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FDD Band 13 (Full Power)								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
5	QPSK	1 RB	0	779.5	23205	22.97	24	0
				782	23230	22.99	24	0
				784.5	23255	23.00	24	0
			12	779.5	23205	23.02	24	0
				782	23230	23.07	24	0
				784.5	23255	23.02	24	0
			24	779.5	23205	23.04	24	0
				782	23230	22.95	24	0
				784.5	23255	22.86	24	0
		12 RB	0	779.5	23205	22.22	23	0-1
				782	23230	22.22	23	0-1
				784.5	23255	22.20	23	0-1
			6	779.5	23205	22.25	23	0-1
				782	23230	22.15	23	0-1
				784.5	23255	22.16	23	0-1
			13	779.5	23205	22.22	23	0-1
				782	23230	22.17	23	0-1
				784.5	23255	22.16	23	0-1
		25RB		779.5	23205	22.21	23	0-1
				782	23230	22.22	23	0-1
				784.5	23255	22.09	23	0-1
	16-QAM	1 RB	0	779.5	23205	21.93	23	0-1
				782	23230	22.41	23	0-1
				784.5	23255	22.08	23	0-1
			12	779.5	23205	21.99	23	0-1
				782	23230	22.14	23	0-1
				784.5	23255	22.11	23	0-1
			24	779.5	23205	22.51	23	0-1
				782	23230	21.95	23	0-1
				784.5	23255	22.36	23	0-1
		12 RB	0	779.5	23205	21.20	22	0-2
				782	23230	21.28	22	0-2
				784.5	23255	21.18	22	0-2
			6	779.5	23205	21.08	22	0-2
				782	23230	21.14	22	0-2
				784.5	23255	21.04	22	0-2
			13	779.5	23205	21.03	22	0-2
				782	23230	21.00	22	0-2
				784.5	23255	21.03	22	0-2
		25RB		779.5	23205	21.15	22	0-2
				782	23230	21.14	22	0-2
				784.5	23255	21.12	22	0-2

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FDD Band 13 (Reduced Power)								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
10	QPSK	1 RB	0	782	23230	18.52	20.5	0
			25	782	23230	19.01	20.5	0
			49	782	23230	18.58	20.5	0
		25 RB	0	782	23230	18.19	19.5	0-1
			12	782	23230	18.09	19.5	0-1
			25	782	23230	18.05	19.5	0-1
		50RB		782	23230	18.14	19.5	0-1
	16-QAM	1 RB	0	782	23230	17.96	19.5	0-1
			25	782	23230	18.36	19.5	0-1
			49	782	23230	17.72	19.5	0-1
		25 RB	0	782	23230	17.20	18.5	0-2
			12	782	23230	17.02	18.5	0-2
			25	782	23230	17.06	18.5	0-2
		50RB		782	23230	17.08	18.5	0-2

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FDD Band 13 (Reduced Power)								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
5	QPSK	1 RB	0	779.5	23205	19.14	20.5	0
				782	23230	19.22	20.5	0
				784.5	23255	19.11	20.5	0
			12	779.5	23205	19.06	20.5	0
				782	23230	19.23	20.5	0
				784.5	23255	19.01	20.5	0
			24	779.5	23205	19.09	20.5	0
				782	23230	19.04	20.5	0
				784.5	23255	18.90	20.5	0
		12 RB	0	779.5	23205	18.14	19.5	0-1
				782	23230	18.17	19.5	0-1
				784.5	23255	18.03	19.5	0-1
			6	779.5	23205	18.11	19.5	0-1
				782	23230	18.06	19.5	0-1
				784.5	23255	17.95	19.5	0-1
			13	779.5	23205	18.15	19.5	0-1
				782	23230	18.11	19.5	0-1
				784.5	23255	17.93	19.5	0-1
		25RB		779.5	23205	18.14	19.5	0-1
				782	23230	18.13	19.5	0-1
				784.5	23255	17.99	19.5	0-1
	16-QAM	1 RB	0	779.5	23205	17.93	19.5	0-1
				782	23230	18.48	19.5	0-1
				784.5	23255	18.21	19.5	0-1
			12	779.5	23205	18.25	19.5	0-1
				782	23230	18.16	19.5	0-1
				784.5	23255	18.22	19.5	0-1
			24	779.5	23205	18.50	19.5	0-1
				782	23230	18.08	19.5	0-1
				784.5	23255	18.43	19.5	0-1
		12 RB	0	779.5	23205	17.14	18.5	0-2
				782	23230	17.18	18.5	0-2
				784.5	23255	17.01	18.5	0-2
			6	779.5	23205	17.07	18.5	0-2
				782	23230	17.09	18.5	0-2
				784.5	23255	16.99	18.5	0-2
			13	779.5	23205	16.90	18.5	0-2
				782	23230	17.01	18.5	0-2
				784.5	23255	16.92	18.5	0-2
		25RB		779.5	23205	17.16	18.5	0-2
				782	23230	17.05	18.5	0-2
				784.5	23255	17.00	18.5	0-2

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FDD Band 17 (Full Power)								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
10	QPSK	1 RB	0	709	23780	22.84	24	0
				710	23790	22.73	24	0
				711	23800	22.85	24	0
			25	709	23780	22.79	24	0
				710	23790	22.59	24	0
				711	23800	22.73	24	0
			49	709	23780	22.66	24	0
				710	23790	22.47	24	0
				711	23800	22.73	24	0
		25 RB	0	709	23780	21.81	23	0-1
				710	23790	21.77	23	0-1
				711	23800	21.74	23	0-1
			12	709	23780	21.71	23	0-1
				710	23790	21.75	23	0-1
				711	23800	21.75	23	0-1
			25	709	23780	21.61	23	0-1
				710	23790	21.68	23	0-1
				711	23800	21.74	23	0-1
		50RB		709	23780	21.79	23	0-1
				710	23790	21.79	23	0-1
				711	23800	21.79	23	0-1
	16-QAM	1 RB	0	709	23780	22.27	23	0-1
				710	23790	22.21	23	0-1
				711	23800	21.93	23	0-1
			25	709	23780	22.11	23	0-1
				710	23790	22.14	23	0-1
				711	23800	22.11	23	0-1
			49	709	23780	22.06	23	0-1
				710	23790	21.64	23	0-1
				711	23800	22.09	23	0-1
		25 RB	0	709	23780	20.90	22	0-2
				710	23790	20.62	22	0-2
				711	23800	20.62	22	0-2
			12	709	23780	20.64	22	0-2
				710	23790	20.55	22	0-2
				711	23800	20.63	22	0-2
			25	709	23780	20.55	22	0-2
				710	23790	20.59	22	0-2
				711	23800	20.63	22	0-2
		50RB		709	23780	20.76	22	0-2
				710	23790	20.62	22	0-2
				711	23800	20.70	22	0-2

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FDD Band 17 (Full Power)								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
5	QPSK	1 RB	0	706.5	23755	22.76	24	0
				710	23790	22.70	24	0
				713.5	23825	22.56	24	0
			12	706.5	23755	22.64	24	0
				710	23790	22.60	24	0
				713.5	23825	22.60	24	0
			24	706.5	23755	22.60	24	0
				710	23790	22.57	24	0
				713.5	23825	22.58	24	0
		12 RB	0	706.5	23755	21.85	23	0-1
				710	23790	21.75	23	0-1
				713.5	23825	21.59	23	0-1
			6	706.5	23755	21.78	23	0-1
				710	23790	21.69	23	0-1
				713.5	23825	21.68	23	0-1
			13	706.5	23755	21.79	23	0-1
				710	23790	21.70	23	0-1
				713.5	23825	21.67	23	0-1
		25RB		706.5	23755	21.74	23	0-1
				710	23790	21.67	23	0-1
				713.5	23825	21.69	23	0-1
	16-QAM	1 RB	0	706.5	23755	21.96	23	0-1
				710	23790	21.76	23	0-1
				713.5	23825	21.64	23	0-1
			12	706.5	23755	21.58	23	0-1
				710	23790	22.05	23	0-1
				713.5	23825	21.58	23	0-1
			24	706.5	23755	21.73	23	0-1
				710	23790	21.97	23	0-1
				713.5	23825	21.73	23	0-1
		12 RB	0	706.5	23755	20.69	22	0-2
				710	23790	20.60	22	0-2
				713.5	23825	20.63	22	0-2
			6	706.5	23755	20.70	22	0-2
				710	23790	20.61	22	0-2
				713.5	23825	20.57	22	0-2
			13	706.5	23755	20.59	22	0-2
				710	23790	20.62	22	0-2
				713.5	23825	20.53	22	0-2
		25RB		706.5	23755	20.68	22	0-2
				710	23790	20.54	22	0-2
				713.5	23825	20.57	22	0-2

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FDD Band 17 (Reduced Power)								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
10	QPSK	1 RB	0	709	23780	18.75	20.5	0
				710	23790	18.61	20.5	0
				711	23800	18.64	20.5	0
			25	709	23780	18.58	20.5	0
				710	23790	18.66	20.5	0
				711	23800	18.53	20.5	0
			49	709	23780	18.56	20.5	0
				710	23790	18.54	20.5	0
				711	23800	18.57	20.5	0
		25 RB	0	709	23780	17.81	19.5	0-1
				710	23790	17.72	19.5	0-1
				711	23800	17.83	19.5	0-1
			12	709	23780	17.71	19.5	0-1
				710	23790	17.68	19.5	0-1
				711	23800	17.66	19.5	0-1
			25	709	23780	17.64	19.5	0-1
				710	23790	17.66	19.5	0-1
				711	23800	17.68	19.5	0-1
		50RB		709	23780	17.75	19.5	0-1
				710	23790	17.68	19.5	0-1
				711	23800	17.81	19.5	0-1
	16-QAM	1 RB	0	709	23780	18.00	19.5	0-1
				710	23790	17.93	19.5	0-1
				711	23800	17.92	19.5	0-1
			25	709	23780	17.63	19.5	0-1
				710	23790	17.88	19.5	0-1
				711	23800	17.63	19.5	0-1
			49	709	23780	17.79	19.5	0-1
				710	23790	17.69	19.5	0-1
				711	23800	17.72	19.5	0-1
		25 RB	0	709	23780	16.80	18.5	0-2
				710	23790	16.59	18.5	0-2
				711	23800	16.57	18.5	0-2
			12	709	23780	16.66	18.5	0-2
				710	23790	16.53	18.5	0-2
				711	23800	16.50	18.5	0-2
			25	709	23780	16.52	18.5	0-2
				710	23790	16.53	18.5	0-2
				711	23800	16.50	18.5	0-2
		50RB		709	23780	16.53	18.5	0-2
				710	23790	16.59	18.5	0-2
				711	23800	16.58	18.5	0-2

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FDD Band 17 (Reduced Power)								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
5	QPSK	1 RB	0	706.5	23755	18.60	20.5	0
				710	23790	18.56	20.5	0
				713.5	23825	18.49	20.5	0
			12	706.5	23755	18.64	20.5	0
				710	23790	18.52	20.5	0
				713.5	23825	18.67	20.5	0
			24	706.5	23755	18.55	20.5	0
				710	23790	18.52	20.5	0
				713.5	23825	18.50	20.5	0
		12 RB	0	706.5	23755	17.78	19.5	0-1
				710	23790	17.72	19.5	0-1
				713.5	23825	17.64	19.5	0-1
			6	706.5	23755	17.74	19.5	0-1
				710	23790	17.74	19.5	0-1
				713.5	23825	17.65	19.5	0-1
			13	706.5	23755	17.73	19.5	0-1
				710	23790	17.74	19.5	0-1
				713.5	23825	17.65	19.5	0-1
		25RB		706.5	23755	17.69	19.5	0-1
				710	23790	17.74	19.5	0-1
				713.5	23825	17.65	19.5	0-1
	16-QAM	1 RB	0	706.5	23755	17.97	19.5	0-1
				710	23790	17.84	19.5	0-1
				713.5	23825	18.00	19.5	0-1
			12	706.5	23755	17.77	19.5	0-1
				710	23790	17.68	19.5	0-1
				713.5	23825	17.67	19.5	0-1
			24	706.5	23755	17.78	19.5	0-1
				710	23790	17.96	19.5	0-1
				713.5	23825	17.78	19.5	0-1
		12 RB	0	706.5	23755	16.69	18.5	0-2
				710	23790	16.59	18.5	0-2
				713.5	23825	16.54	18.5	0-2
			6	706.5	23755	16.57	18.5	0-2
				710	23790	16.56	18.5	0-2
				713.5	23825	16.50	18.5	0-2
			13	706.5	23755	16.59	18.5	0-2
				710	23790	16.52	18.5	0-2
				713.5	23825	16.50	18.5	0-2
		25RB		706.5	23755	16.59	18.5	0-2
				710	23790	16.52	18.5	0-2
				713.5	23825	16.50	18.5	0-2

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

Band \ Antenna	SISO		MIMO
	Chain 0	Chain 1	Chain0+1
WLAN802.11b	V	V	–
WLAN802.11g	V	V	–
WLAN802.11n(20M)	V	V	V
WLAN802.11n(40M)	V	V	V
WLAN802.11a	V	V	–
WLAN802.11n(20M) 5G	V	V	V
WLAN802.11n(40M) 5G	V	V	V
WLAN802.11ac(20M) 5G	V	V	V
WLAN802.11ac(40M) 5G	V	V	V
WLAN802.11ac(80M) 5G	V	V	V

Main Antenna (CH0)

802.11 b		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Power Output (dBm)
CH	Frequency (MHz)		Data Rate (Mbps)
			1
1	2412	16	15.72
6	2437	16	15.63
11	2462	16	15.84

802.11 g		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Power Output (dBm)
CH	Frequency (MHz)		Data Rate (Mbps)
			6
1	2412	14	13.96
2	2417	15.5	15.41
6	2437	16.5	16.45
10	2457	15.5	15.49
11	2462	12.5	12.17

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Main Antenna (CH0)

802.11 n(20M)		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Power Output (dBm)
CH	Frequency (MHz)		Data Rate (Mbps)
			6.5
1	2412	14	13.92
2	2417	15.5	15.35
6	2437	16.5	16.38
10	2457	15.5	15.35
11	2462	12.5	12.12

802.11 n(40M)		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Power Output (dBm)
CH	Frequency (MHz)		Data Rate (Mbps)
			13.5
3	2422	13.5	13.14
4	2427	14.5	14.45
6	2437	16.5	16.31
8	2447	13.5	13.34
9	2452	11.5	11.38

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Main Antenna (CH0)

802.11 a 5.2/5.3/5.6/5.8G		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Power Output(dBm)
CH	Frequency (MHz)		Data Rate (Mbps)
			6
36	5180	12.5	12.45
40	5200	12.5	12.40
44	5220	12.5	12.32
48	5240	12.5	12.28
52	5260	12.5	12.24
56	5280	12.5	12.10
60	5300	12.5	12.38
64	5320	12.5	12.29
100	5500	12.5	12.33
120	5600	12.5	12.39
140	5700	12.5	12.31
149	5745	12.5	12.25
157	5785	12.5	12.18
165	5825	12.5	12.21

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Main Antenna (CH0)

802.11 n(20M) 5.2/5.3/5.6/5.8G		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Power Output(dBm)
CH	Frequency (MHz)		Data Rate (Mbps)
			6.5
36	5180	12.5	12.44
40	5200	12.5	12.31
44	5220	12.5	12.25
48	5240	12.5	12.18
52	5260	12.5	12.41
56	5280	12.5	12.43
60	5300	12.5	12.32
64	5320	12.5	12.17
100	5500	12.5	12.31
120	5600	12.5	12.34
140	5700	12.5	12.22
149	5745	12.5	12.31
157	5785	12.5	12.15
165	5825	12.5	12.33

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Main Antenna (CH0)

802.11 n(40M)		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Power Output(dBm)
5.2/5.3/5.6/5.8G			
CH	Frequency (MHz)		Data Rate (Mbps)
			13.5
38	5190	12	11.93
46	5230	12.5	12.33
54	5270	12.5	12.21
62	5310	12.5	12.44
102	5510	12.5	12.45
118	5590	12.5	12.18
134	5670	12.5	12.22
151	5755	12.5	12.45
159	5795	12.5	12.33

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Main Antenna (CH0)

802.11 ac(20M)		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Power Output(dBm)
5.2/5.3/5.6/5.8G			
CH	Frequency (MHz)		Data Rate (Mbps)
			6.5
36	5180	12.5	12.45
40	5200	12.5	12.34
44	5220	12.5	12.30
48	5240	12.5	12.20
52	5260	12.5	12.44
56	5280	12.5	12.45
60	5300	12.5	12.35
64	5320	12.5	12.21
100	5500	12.5	12.25
120	5600	12.5	12.21
144	5720	12.5	12.21
149	5745	12.5	12.45
157	5785	12.5	12.33
165	5825	12.5	12.39

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Main Antenna (CH0)

802.11 ac(40M) 5.2/5.3/5.6/5.8G		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Power Output(dBm)
CH	Frequency (MHz)		Data Rate (Mbps)
			13.5
38	5190	12	11.95
46	5230	12.5	12.34
54	5270	12.5	12.31
62	5310	12.5	12.44
102	5510	12.5	12.47
126	5630	12.5	12.39
142	5710	12.5	12.41
151	5755	12.5	12.38
159	5795	12.5	12.36

802.11 ac(80M) 5.2/5.3/5.6/5.8G		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Power Output(dBm)
CH	Frequency (MHz)		Data Rate (Mbps)
			29.3
42	5210	12.5	12.43
58	5290	12.5	12.31
106	5530	12.5	12.38
122	5610	12.5	12.15
138	5690	12.5	12.18
155	5775	12.5	12.39

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Aux Antenna (CH1)

802.11 b		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Power Output (dBm)
CH	Frequency (MHz)		Data Rate (Mbps)
			1
1	2412	16	15.94
6	2437	16	15.83
11	2462	16	15.98

802.11 g		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Power Output (dBm)
CH	Frequency (MHz)		Data Rate (Mbps)
			6
1	2412	14.5	14.47
2	2417	15.5	15.45
6	2437	16.5	16.49
10	2457	15.5	15.48
11	2462	12.5	12.44

802.11 n(20M)		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Power Output (dBm)
CH	Frequency (MHz)		Data Rate (Mbps)
			6.5
1	2412	14.5	14.45
2	2417	15.5	15.36
6	2437	16.5	16.47
10	2457	15.5	15.45
11	2462	12.5	12.33

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Aux Antenna (CH1)

802.11 n(40M)		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Power Output (dBm)
CH	Frequency (MHz)		Data Rate (Mbps)
			13.5
3	2422	13.5	13.42
4	2427	14.5	14.48
6	2437	16.5	16.42
8	2447	12.5	12.42
9	2452	11.5	11.45

802.11 a		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Power Output(dBm)
5.2/5.3/5.6/5.8G			
CH	Frequency (MHz)		Data Rate (Mbps)
			6
36	5180	12.5	12.47
40	5200	12.5	12.41
44	5220	12.5	12.36
48	5240	12.5	12.31
52	5260	12.5	12.35
56	5280	12.5	12.12
60	5300	12.5	12.48
64	5320	12.5	12.45
100	5500	12.5	12.42
120	5600	12.5	12.41
140	5700	12.5	12.46
149	5745	12.5	12.33
157	5785	12.5	12.36
165	5825	12.5	12.31

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Aux Antenna (CH1)

802.11 n(20M) 5.2/5.3/5.6/5.8G		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Power Output(dBm)
CH	Frequency (MHz)		Data Rate (Mbps)
			6.5
36	5180	12.5	12.41
40	5200	12.5	12.34
44	5220	12.5	12.30
48	5240	12.5	12.19
52	5260	12.5	12.19
56	5280	12.5	12.15
60	5300	12.5	12.40
64	5320	12.5	12.38
100	5500	12.5	12.34
120	5600	12.5	12.17
140	5700	12.5	12.38
149	5745	12.5	12.26
157	5785	12.5	12.25
165	5825	12.5	12.23

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Aux Antenna (CH1)

802.11 n(40M)		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Power Output(dBm)
5.2/5.3/5.6/5.8G			
CH	Frequency (MHz)		Data Rate (Mbps)
			13.5
38	5190	12.5	12.25
46	5230	12.5	12.44
54	5270	12.5	12.31
62	5310	12.5	12.27
102	5510	12.5	12.45
118	5590	12.5	12.44
134	5670	12.5	12.32
151	5755	12.5	12.38
159	5795	12.5	12.34

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Aux Antenna (CH1)

802.11 ac(20M)		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Power Output(dBm)
5.2/5.3/5.6/5.8G			
CH	Frequency (MHz)		Data Rate (Mbps)
			6.5
36	5180	12.5	12.47
40	5200	12.5	12.36
44	5220	12.5	12.31
48	5240	12.5	12.22
52	5260	12.5	12.49
56	5280	12.5	12.46
60	5300	12.5	12.42
64	5320	12.5	12.39
100	5500	12.5	12.37
120	5600	12.5	12.50
144	5720	12.5	12.29
149	5745	12.5	12.48
157	5785	12.5	12.49
165	5825	12.5	12.46

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Aux Antenna (CH1)

802.11 ac(40M) 5.2/5.3/5.6/5.8G		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Power Output(dBm)
CH	Frequency (MHz)		Data Rate (Mbps)
			13.5
38	5190	12.5	12.48
46	5230	12.5	12.47
54	5270	12.5	12.35
62	5310	12.5	12.46
102	5510	12.5	12.49
126	5630	12.5	12.45
142	5710	12.5	12.42
151	5755	12.5	12.41
159	5795	12.5	12.39

802.11 ac(80M) 5.2/5.3/5.6/5.8G		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Power Output(dBm)
CH	Frequency (MHz)		Data Rate (Mbps)
			29.3
42	5210	12.5	12.47
58	5290	12.5	12.36
106	5530	12.5	12.49
122	5610	12.5	12.29
138	5690	12.5	12.31
155	5775	12.5	12.48

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MIMO (CH0 + CH1)

802.11 n(20M)		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Power Output (dBm)		
			Data Rate (Mbps)		
CH	Frequency (MHz)		CH0	CH1	CH0 + CH1
1	2412	12	8.80	8.10	11.47
2	2417	13.5	10.21	10.30	13.27
6	2437	13.5	10.14	10.39	13.28
10	2457	13.5	10.11	10.35	13.24
11	2462	12	8.72	8.88	11.81

802.11 n(40M)		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Power Output (dBm)		
			Data Rate (Mbps)		
CH	Frequency (MHz)		CH0	CH1	CH0 + CH1
3	2422	9.5	6.31	6.41	9.37
4	2427	12	8.81	8.92	11.88
6	2437	13.5	10.25	10.42	13.35
8	2447	11.5	8.42	8.49	11.47
9	2452	9.5	6.31	6.41	9.37

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MIMO (CH0 + CH1)

802.11 n(20M) 5.2/5.3/5.6/5.8G		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Power Output (dBm)		
			Data Rate (Mbps)		
CH	Frequency (MHz)		CH0	CH1	CH0 + CH1
36	5180	10.5	7.21	7.33	10.28
40	5200	10.5	7.35	7.35	10.36
44	5220	10.5	7.24	7.39	10.33
48	5240	10.5	7.22	7.43	10.34
52	5260	10.5	7.21	7.42	10.33
56	5280	10.5	7.16	7.42	10.30
60	5300	10.5	7.09	7.40	10.26
64	5320	10.5	7.34	7.22	10.29
100	5500	10.5	7.50	7.36	10.44
120	5600	10.5	7.42	7.50	10.47
140	5700	10.5	7.44	7.41	10.44
149	5745	10.5	7.33	7.49	10.42
157	5785	10.5	7.24	7.44	10.35
165	5825	10.5	7.29	7.48	10.40

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MIMO (CH0 + CH1)

802.11 n(40M) 5.2/5.3/5.6/5.8G		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Power Output (dBm)		
			Data Rate (Mbps)		
CH	Frequency (MHz)		CH0	CH1	CH0 + CH1
38	5190	10	6.66	6.74	9.71
46	5230	10.5	7.33	7.21	10.28
54	5270	10.5	7.35	7.44	10.41
62	5310	10.5	7.34	7.43	10.40
102	5510	10.5	7.34	7.49	10.43
118	5590	10.5	7.21	7.34	10.29
134	5670	10.5	7.28	7.29	10.30
151	5755	10.5	7.39	7.21	10.31
159	5795	10.5	7.38	7.39	10.40

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MIMO (CH0 + CH1)

802.11 ac(20M) 5.2/5.3/5.6/5.8G		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Power Output (dBm)		
			Data Rate (Mbps)		
CH	Frequency (MHz)		CH0	CH1	CH0 + CH1
36	5180	10.5	7.14	7.31	10.24
40	5200	10.5	7.21	7.23	10.23
44	5220	10.5	7.45	7.34	10.41
48	5240	10.5	7.34	7.36	10.36
52	5260	10.5	7.21	7.29	10.26
56	5280	10.5	7.34	7.39	10.38
60	5300	10.5	7.45	7.42	10.45
64	5320	10.5	7.35	7.41	10.39
100	5500	10.5	7.32	7.32	10.33
120	5600	10.5	7.21	7.45	10.34
144	5720	10.5	7.13	7.23	10.19
149	5745	10.5	7.18	7.38	10.29
157	5785	10.5	7.19	7.39	10.30
165	5825	10.5	7.17	7.21	10.20

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MIMO (CH0 + CH1)

802.11 ac(40M) 5.2/5.3/5.6/5.8G		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Power Output (dBm)		
			Data Rate (Mbps)		
CH	Frequency (MHz)		CH0	CH1	CH0 + CH1
38	5190	10	6.54	6.89	9.73
46	5230	10.5	7.33	7.42	10.39
54	5270	10.5	7.24	7.45	10.36
62	5310	10.5	7.25	7.31	10.29
102	5510	10.5	7.23	7.22	10.24
126	5630	10.5	7.38	7.32	10.36
142	5710	10.5	7.18	7.46	10.33
151	5755	10.5	7.14	7.47	10.32
159	5795	10.5	7.06	7.31	10.20

802.11 ac(80M) 5.2/5.3/5.6/5.8G		Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Power Output (dBm)		
			Data Rate (Mbps)		
CH	Frequency (MHz)		CH0	CH1	CH0 + CH1
42	5210	10.5	7.22	7.41	10.33
58	5290	10.5	7.44	7.50	10.48
106	5530	10.5	7.34	7.43	10.40
122	5610	10.5	7.29	7.23	10.27
138	5690	10.5	7.16	7.42	10.30
155	5775	10.5	7.15	7.47	10.32

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#. Bluetooth conducted power table:

Frequency (MHz)	Peak	
	dBm	mW
2402	3.12	2.051
2441	3.73	2.360
2480	3.54	2.259
2402	2.68	1.854
2441	1.50	1.413
2480	1.38	1.374
2402	1.99	1.581
2441	0.91	1.233
2480	0.82	1.208

Frequency (MHz)	Avg. (dBm)
	BT4.0
2402	0.42
2442	0.87
2480	1.05

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1.4 Test Environment

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

1.5 Operation Description

1. WWAN (LTE):

The EUT is controlled by using Radio Communication Tester(Anritsu MT8820C), and the communication between the EUT and the tester is established by air link. The EUT was tested in three configurations:

Configuration 1: Back side_0mm with power reduction and_10mm without power reduction.

Configuration 2: Top side_0mm with power reduction and_5mm without power reduction.

Configuration 3: Right/left/bottom sides_0mm without power reduction.

Band	Power Reduction
LTE B2/4/5/13/17	YES
WLAN	NO
BT	NO

2. WLAN (802.11 a/b/g/n/ac):

Use chipset specific software to control the EUT, and makes it transmit in maximum power. The EUT was tested in the following configurations:

Configurations: Back/top/right/bottom/Left sides_0mm.

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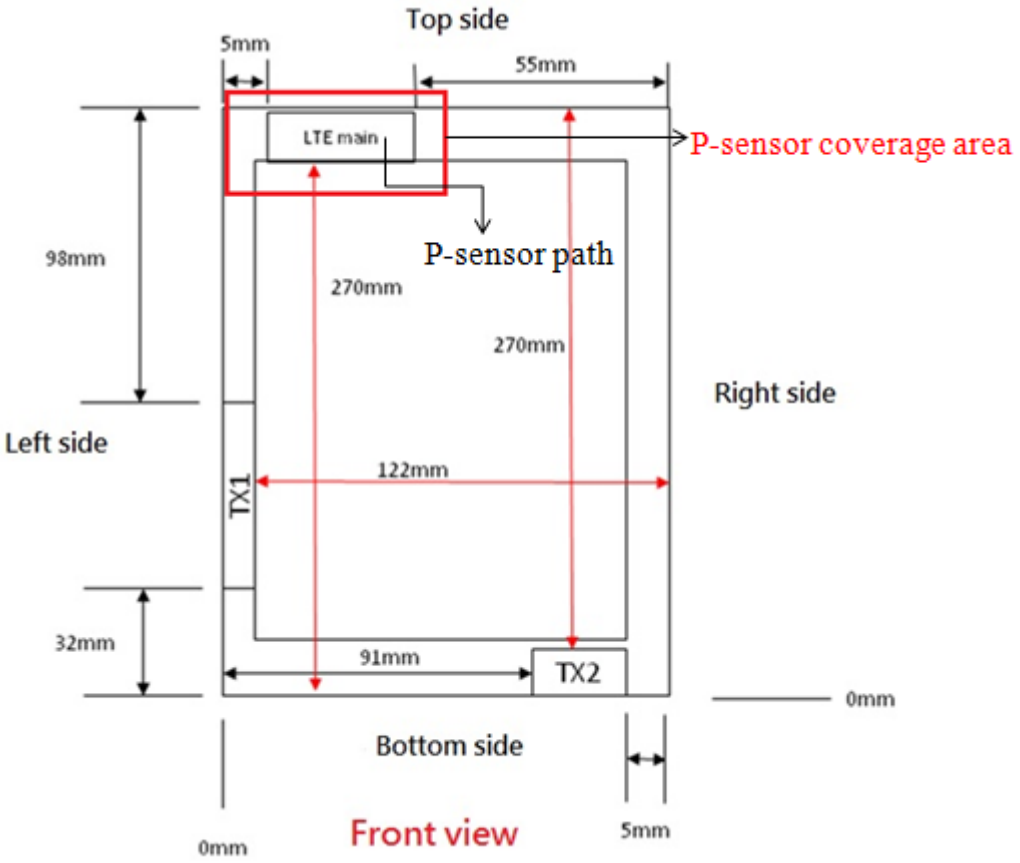

Antenna position plot(front view)

(Note:The proximity sensor is collocated with WWAN antenna.)

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Note:

1. LTE modes test according to **FCC KDB 941225 D05v02r03.**

a. Per Section 5.2.1, the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation.

- Using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
- When the reported SAR is ≤ 0.8 W/kg, testing of the remaining RB offset configurations and required test channels is not required for 1 RB allocation; otherwise, SAR is required for the remaining required test channels and only for the RB offset configuration with the highest output power for that channel.
- When the reported SAR of a required test channel is > 1.45 W/kg, SAR is required for all three RB offset configurations for that required test channel.

b. Per Section 5.2.2, the largest channel bandwidth and measure SAR for QPSK with 50% RB allocation

- The procedures required for 1 RB allocation in 5.2.1 are applied to measure the SAR for QPSK with 50% RB allocation.

c. Per Section 5.2.3, the largest channel bandwidth and measure SAR for QPSK with 100% RB allocation

- For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation in 5.2.1 and 5.2.2 are ≤ 0.8 W/kg.
- Otherwise, SAR is measured for the highest output power channel and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.

d. Per Section 5.2.4, Higher order modulations

- For each modulation besides QPSK; e.g., 16-QAM, 64-QAM, apply the QPSK procedures in sections 5.2.1, 5.2.2 and 5.2.3 to determine the QAM configurations that may need SAR measurement. For each configuration identified as required for testing, SAR is required only when the highest maximum output power for the configuration in the higher order modulation is > ½ dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is > 1.45 W/kg.

e. Per Section 5.3, other channel bandwidth standalone SAR test requirements

- For the other channel bandwidths used by the device in a frequency band, apply all the procedures required for the largest channel bandwidth in section 5.2 to determine the channels and RB configurations that need SAR testing and only measure SAR when the highest maximum output power of a configuration requiring testing in the smaller channel bandwidth is > ½ dB higher than the equivalent channel configurations in the largest channel bandwidth configuration or the reported SAR of a configuration for the largest channel bandwidth is > 1.45 W/kg.
- The equivalent channel configuration for the RB allocation, RB offset and

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modulation etc. is determined for the smaller channel bandwidth according to the same number of RB allocated in the largest channel bandwidth.

802.11b DSSS SAR Test Requirements:

2. 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.

3. 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:

4. SAR is not required for 802.11g/n when 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.

5. SAR is required for 802.11g/n now since the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is > 1.2 W/kg.

Initial Test Configuration:

6. 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.

7. 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.

8. For WLAN Main/Aux 2.4G, 802.11 g and 802.11n(40) are chosen to be the initial test configurations.

9. For WLAN Main/Aux 5G, 5.2G ac(80), 5.3G ac(80), 5.6G ac(80), 5.8G ac(80) are chosen to be the initial test configurations.

10. For WLAN Main/Aux antenna, since the highest reported SAR for the initial test configuration is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for that subsequent test configuration.

11. BT and WLAN Aux use the same antenna path and Bluetooth may transmit simultaneously with WLAN Main.

12. BT SAR measurement for back/top/right/left/bottom sides can be excluded based on

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KDB447498D01. Since the simultaneous transmission needs to be considered, we do the BT SAR test for these sides. We choose the highest maximum BT power to do SAR measurement for these sides to be the worst cases.

13. For 2.4/5.2/5.3/5.6/5.8GHz WLAN Main and Aux antennas, the maximum output power of each antenna during simultaneous transmission (for 802.11n/ac) is much less than that used in standalone transmission (802.11a/b/g/n/ac), so it is more conservative to use the sum of 1-g SAR provision to exclude the SAR measurement for 802.11n/ac MIMO.

14. Based on KDB447498D01,

(1) SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances≤ 50 mm are determined by:

$$\frac{\text{Max. tune up power(mW)}}{\text{Min. test separation distance(mm)}} \times \sqrt{f(\text{GHz})} \leq 3$$

When the minimum test separation distance is < 5mm, 5mm is applied to determine SAR test exclusion.

(2) For test separation distances > 50 mm, and the frequency at 100 MHz to 1500MHz, the SAR test exclusion threshold is determined according to the following, and as illustrated in Appendix B of KDB447498 D01.

[(Threshold at 50mm in step1) + (test separation distance-50mm)x($\frac{f(\text{MHz})}{150}$)](mW),

(3) For test separation distances > 50 mm, and the frequency at >1500MHz to 6GHz, the SAR test exclusion threshold is determined according to the following, and as illustrated in Appendix B of KDB447498 D01.

[(Threshold at 50mm in step1) + (test separation distance-50mm)x10](mW),

Mode	Maximum power(dBm)	Maximum power(mW)	Top side			Right side			Left side		
			Ant. to surface (mm)	over 200mm	Require SAR testing?	Ant. to surface (mm)	Exclusion threshold	Require SAR testing?	Ant. to surface (mm)	Exclusion threshold	Require SAR testing?
BT	3.73	2.36	270	yes	NO	5	0.743	NO	91	410.07	NO

Mode	Maximum power(dBm)	Maximum power(mW)	Bottom side			Back side		
			Ant. to surface (mm)	Exclusion threshold	Require SAR testing?	Ant. to surface (mm)	Exclusion threshold	Require SAR testing?
BT	3.73	2.36	less than 5	0.743	NO	less than 5	0.743	NO

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15. According to KDB447498 D01, testing of other required channels is not required when the reported 1-g SAR for the highest output channel is ≤ 0.8 W/kg, when the transmission band is ≤ 100 MHz.

16. According to KDB865664 D01, SAR measurement variability must be assessed for each frequency band. When the original highest measured SAR is ≥ 0.8 W/kg, repeated that measurement once. Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit)

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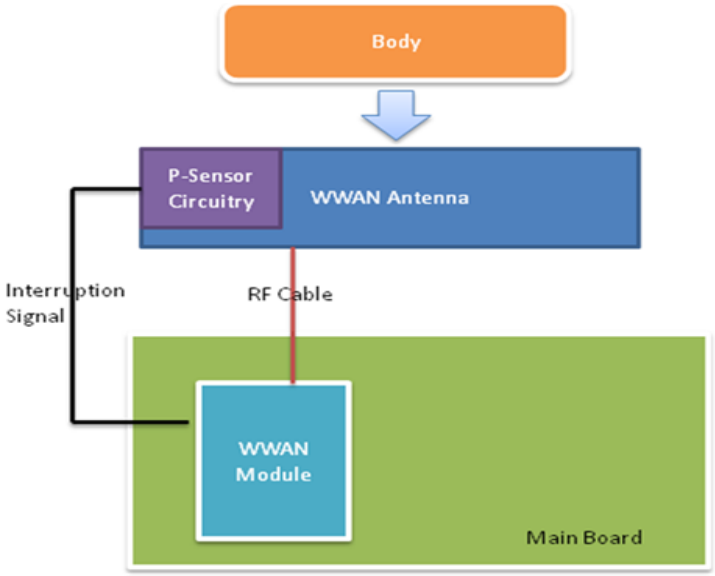
1.6 Proximity sensor operation description

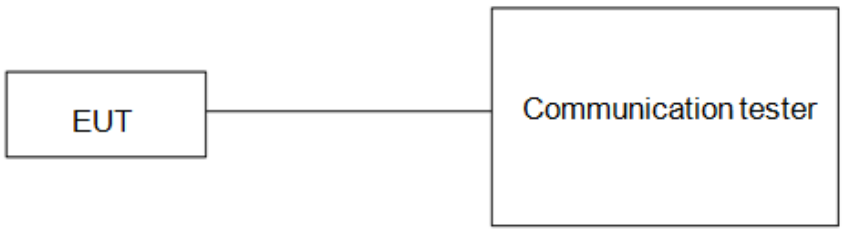
The P-sensor being used to reduce output power is capacitive in which when the object such as human body, metal or plastic is being approached, the sensing capacitance would be increased with the antenna pad. Once the capacitance is accumulated, and reached over the threshold as set in MCU of the microchip, 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 sensor is collocated with WWAN antenna.

(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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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 back side, the trigger distance of proximity sensor is 11mm.

10) For top side, the trigger distance of proximity sensor is 7mm, and we perform the 1.6.3 tilt angle testing in next step.

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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 and right sides, please refer to table 1.6.5 and 1.6.6.

5) After the tilt angle testing for top side, the sensor is not released during +/- 45deg, so 7-1=6mm, is the sensor triggering distance for tablet tilt coverage. The smallest separation distance minus 1 mm(6-1=5mm) should be used in the SAR measurements.

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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:

1) 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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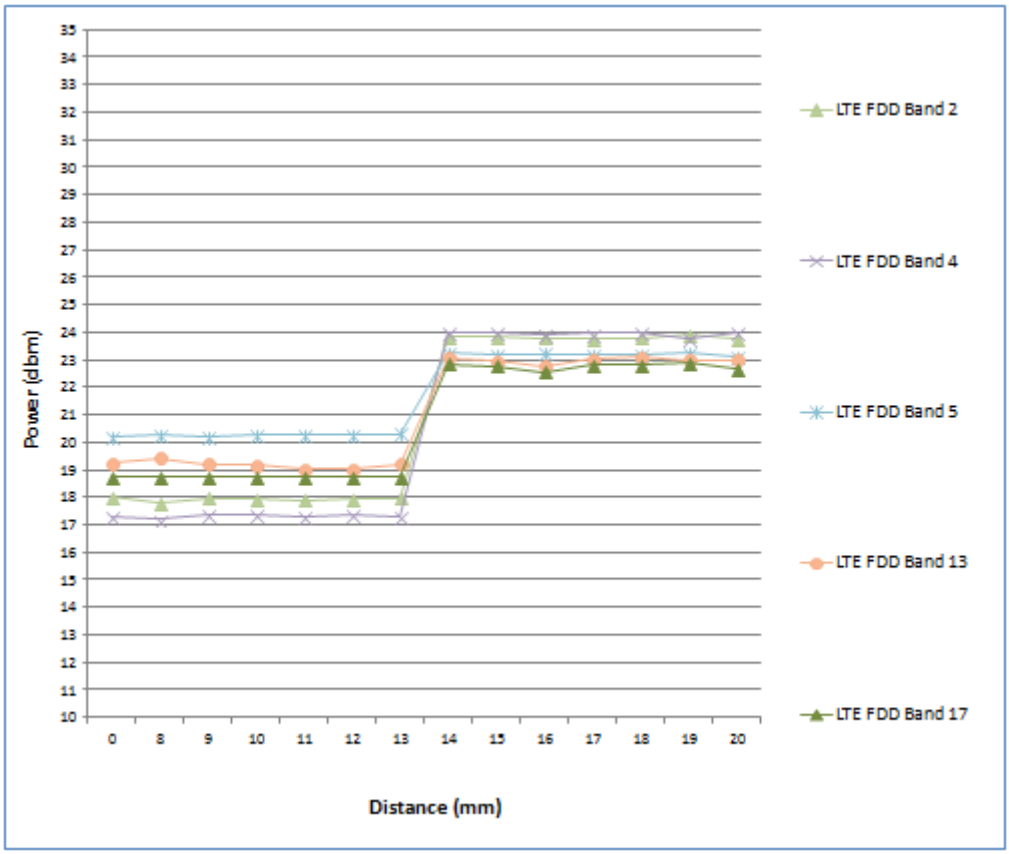
1.6.5 Results

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 is tabulated in the following.

Back side

Moving device toward the phantom



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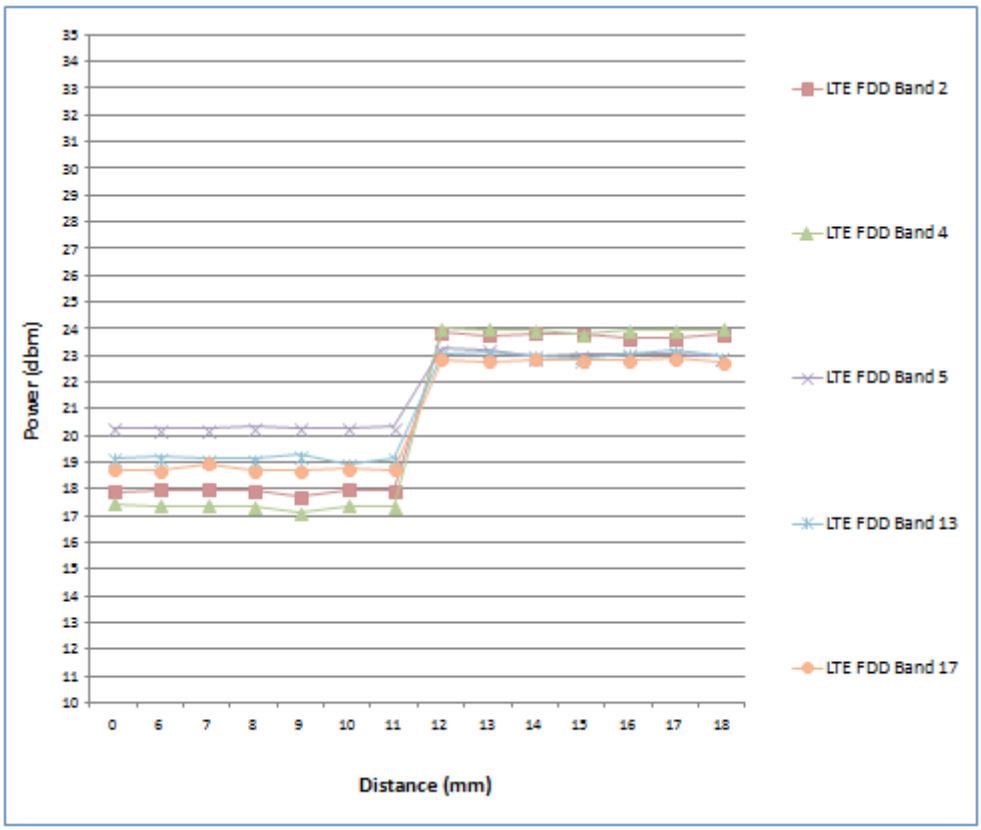
Moving device away from the phantom



For back side, the worst trigger distance of proximity sensor is 11mm, thus we test back side SAR in 10mm without power reduction and 0mm with power reduction.

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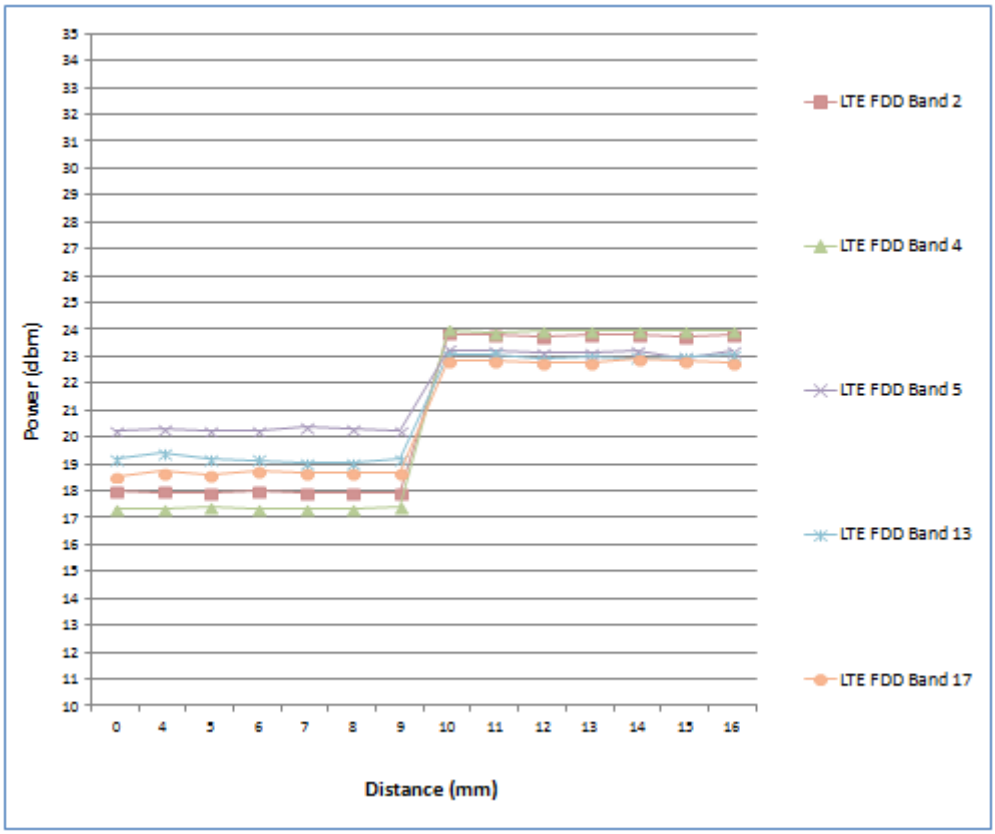
Top side

Moving device toward the phantom



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Moving device away from the phantom

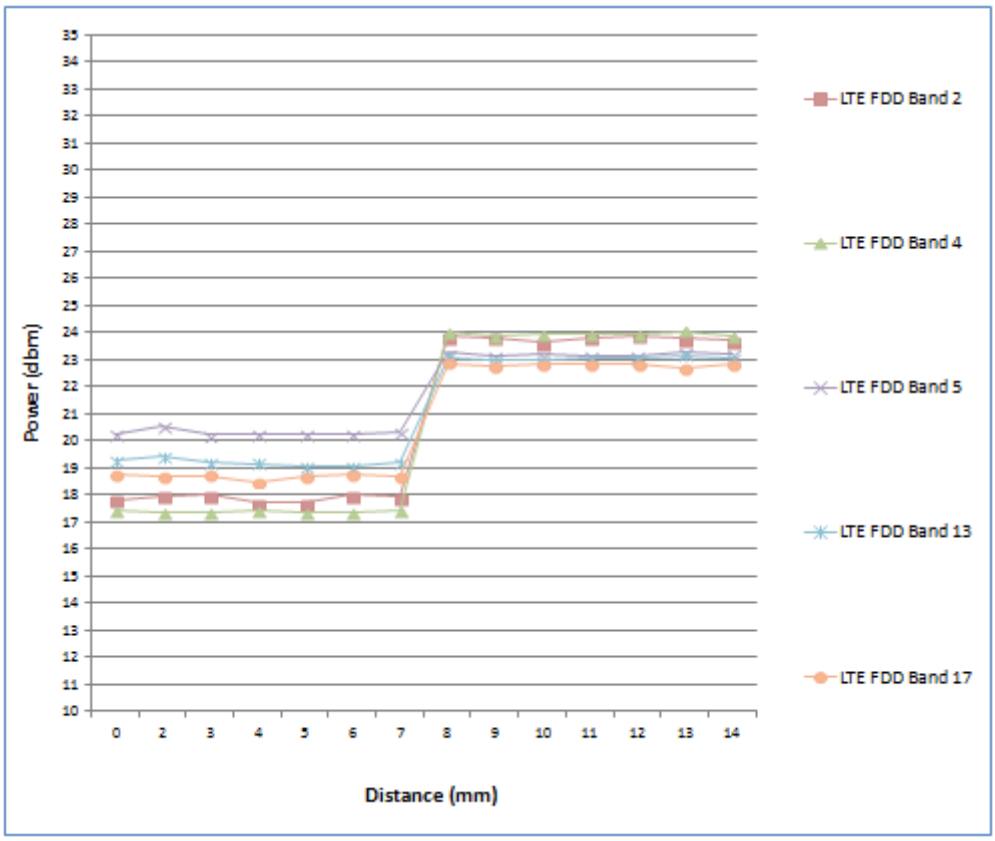

Table 1.6.5 Tilt angle test results for top side

P-sensor ON/OFF	-50 deg	-45 deg	-40 deg	-30 deg	-20 deg	-10 deg	0 deg	10 deg	20 deg	30 deg	40 deg	45 deg	50 deg
7mm	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON

During the tilt angle testing for top side, the sensor is not released in 7mm, so 7-1=6mm, is the sensor triggering distance for tablet tilt coverage. The smallest separation distance minus 1 mm(6-1=5mm) should be used in the SAR measurements for top side.

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Note:

1. 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. The default power level for sensor failure and malfunctioning, including all compliance concerns, has been addressed in the client's operation description (1.6.6) for the proximity sensor implementation to be acceptable.

3. Conducted power is monitored qualitatively to identify the general triggering characteristics and recorded quantitatively, versus spacing.

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1.6.6 Operation description for P-sensor

Power Reduction Design Specification (for P-sensor)

The mechanism of power reduction is used only for WWAN, not for Wi-Fi and Bluetooth. The reduced power for each technology/band is defined in Table1-1. With P-sensor mechanism, the LTE default power when P-sensor failure or malfunction are show in Table1-2 as below.

Table1-1：The power reduction scenario table

Band	Power Reduction
LTE B2/4/5/13/17	YES
WLAN	NO
BT	NO

Table1-2：The default maximum power when p-sensor failure or malfunction

Technology / Band	Default Maximum Power (dBm)
LTE B2	19
LTE B4	18.5
LTE B5	22
LTE B13	20.5
LTE B17	20.5

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1.7 The SAR Measurement System

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

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

- 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).
- A dosimetric probe, i.e., an isotropic E-field probe optimized and calibrated for usage intissue simulating liquid. The probe is equipped with an optical surface detector system.
- 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.

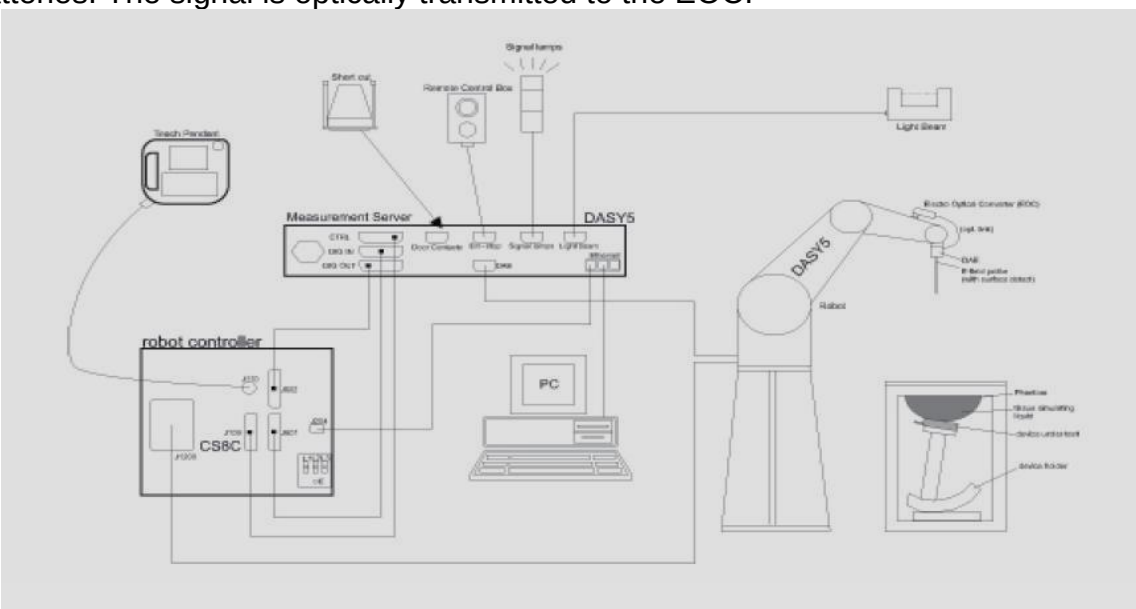

Fig. a The block diagram of SAR system

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- 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.
- 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.
- A probe alignment unit which improves the (absolute) accuracy of the probe positioning.
- A computer operating Windows 7.
- DASY 5 software.
- Remote control with teach pendant and additional circuitry for robot safety such as warning lamps, etc.
- The SAM twin phantom enabling testing left-hand and right-hand usage.
- The device holder for handheld mobile phones.
- Tissue simulating liquid mixed according to the given recipes.
  Validation dipole kits allowing to validate the proper functioning of the system.

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1.8 System Components

EX3DV4 E-Field Probe

Construction	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)	
Calibration	Basic Broad Band Calibration in air Conversion Factors (CF) for HSL 750/835/1750/1900/2450/5200/5300/5600/5800 MHz Additional CF for other liquids and frequencies upon request	
Frequency	10 MHz to > 6 GHz	
Directivity	± 0.3 dB in HSL (rotation around probe axis) ± 0.5 dB in tissue material (rotation normal to probe axis)	
Dynamic Range	10 µW/g to > 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 µW/g)	
Dimensions	Tip diameter: 2.5 mm	
Application	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields). Only probe which enables compliance testing for frequencies up to 6 GHz with precision of better 30%.	

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SAM PHANTOM V4.0C

Construction	The shell corresponds to the specifications of the Specific Anthropomorphic Mannequin (SAM) phantom defined in IEEE 1528 and IEC 62209. It enables the dosimetric evaluation of left and right hand phone usage as well as body mounted usage at the flat phantom region. A cover prevents evaporation of the liquid. Reference markings on the phantom allow the complete setup of all predefined phantom positions and measurement grids by manually teaching three points with the robot.	
Shell Thickness	2 ± 0.2 mm	
Filling Volume	Approx. 25 liters	
Dimensions	Height: 850 mm; Length: 1000 mm; Width: 500 mm	

DEVICE HOLDER

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

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1.9 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 750/835/1750/1900/2450/5200/5300/5600/ 5800MHz. 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 ambient temperature of the laboratory was 21.7°C, the relative humidity was 62% and 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.

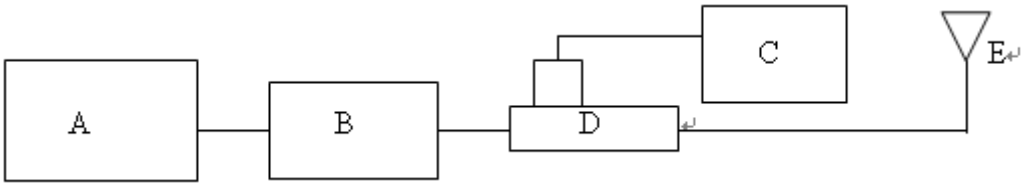


Fig. b The block diagram of system verification

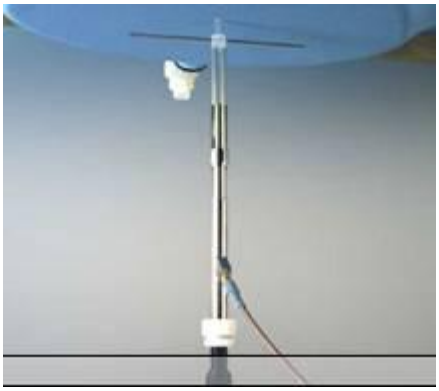
A. Signal generator

B. Amplifier

C. Power meter

D. Dual directional coupling

E. Reference dipole antenna



Photograph of the dipole Antenna

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Validation Kit	S/N	Frequency (MHz)		1W Target SAR-1g (mW/g)	Measured SAR-1g (mW/g)	Measured SAR-1g normalized to 1W (mW/g)	Deviation (%)	Measured Date
D750V2	1015	750	Body	8.75	2.21	8.84	1.03%	Aug. 11, 2015
D835V2	4d063	835	Body	9.35	2.34	9.36	0.11%	Aug. 11, 2015
D1750V2	1008	1750	Body	37.5	9.62	38.48	2.61%	Aug. 10, 2015
D1900V2	5d027	1900	Body	39.3	9.44	37.76	-3.92%	Aug. 10, 2015
D2450V2	727	2450	Body	51	13.3	53.2	4.31%	Aug. 03, 2015
D5GHzV2	1023	5200	Body	73.5	6.96	69.6	-5.31%	Aug. 03, 2015
		5300	Body	74.6	7.6	76	1.88%	Aug. 05, 2015
		5600	Body	77.9	7.66	76.6	-1.67%	Aug. 06, 2015
		5800	Body	75.6	7.5	75	-0.79%	Aug. 07, 2015

Table 1. Results of system validation

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1.10 Tissue Simulant Fluid for the Frequency Band

The dielectric properties for this body-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 (30 KHz-6000 MHz).

All dielectric parameters of tissue simulates were measured within 24 hours of SAR measurements. The depth of the tissue simulant in the flat section of the phantom was ≥ 15 cm ± 5 mm (Frequency ≤3G) or ≥ 10 cm ± 5 mm (Frequency >3G) during all tests. (Fig. 2)

Tissue Type	Measured Frequency (MHz)	Target Dielectric Constant, εr	Target Conductivity, σ (S/m)	Measured Dielectric Constant, εr	Measured Conductivity, σ (S/m)	% dev εr	% dev σ	Measurement Date
Body	709	55.691	0.960	53.829	0.973	3.34%	-1.33%	Aug,11 2015
	710	55.687	0.960	53.817	0.973	3.36%	-1.33%	
	711	55.683	0.960	53.804	0.974	3.37%	-1.42%	
	750	55.531	0.963	53.395	0.994	3.85%	-3.18%	
	782	55.406	0.966	53.042	1.005	4.27%	-4.05%	
	829	55.223	0.970	56.755	1.004	-2.77%	-3.56%	
	835	55.200	0.970	56.664	1.013	-2.65%	-4.43%	
	836.5	55.195	0.972	56.651	1.015	-2.64%	-4.44%	
	844	55.172	0.981	56.621	1.025	-2.63%	-4.48%	
	1720	53.511	1.469	52.015	1.419	2.79%	3.43%	Aug,10 2015
	1732.5	53.478	1.477	51.998	1.428	2.77%	3.34%	
	1745	53.445	1.485	51.961	1.439	2.78%	3.11%	
	1750	53.432	1.488	51.94	1.449	2.79%	2.65%	
	1860	53.300	1.520	53.156	1.482	0.27%	2.50%	
	1880	53.300	1.520	53.038	1.505	0.49%	0.99%	
	1900	53.300	1.520	52.921	1.531	0.71%	-0.72%	
	2402	52.764	1.904	51.102	1.962	3.15%	-3.04%	Aug,3 2015
	2412	52.751	1.914	51.083	1.978	3.16%	-3.36%	
	2417	52.744	1.918	51.061	1.982	3.19%	-3.31%	
	2427	52.731	1.928	51.038	1.992	3.21%	-3.32%	
	2437	52.717	1.938	51.011	2.001	3.24%	-3.27%	
	2441	52.712	1.941	50.962	2.004	3.32%	-3.22%	
	2450	52.700	1.950	50.978	2.017	3.27%	-3.44%	
	2457	52.691	1.960	50.947	2.025	3.31%	-3.32%	
	2462	52.685	1.967	50.923	2.033	3.34%	-3.35%	
	2480	52.662	1.993	50.891	2.071	3.36%	-3.94%	
	5200	49.014	5.299	47.907	5.459	2.26%	-3.01%	Aug,4 2015
	5210	49.001	5.311	47.881	5.477	2.29%	-3.13%	
	5290	48.892	5.404	47.623	5.595	2.60%	-3.53%	Aug,5 2015
	5300	48.879	5.416	47.588	5.612	2.64%	-3.62%	
	5530	48.566	5.685	46.786	5.921	3.67%	-4.16%	Aug,6 2015
	5600	48.471	5.766	46.582	5.998	3.90%	-4.02%	
	5690	48.349	5.872	46.231	6.101	4.38%	-3.91%	
	5775	48.234	5.971	46.085	6.2	4.46%	-3.84%	Aug,7 2015
	5800	48.200	6.000	45.988	6.212	4.59%	-3.53%	

Table 2. Dielectric Parameters of Tissue Simulant Fluid

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The composition of the body tissue simulating liquid:

Frequency (MHz)	Mode	Ingredient						Total amount
		DGMBE	Water	Salt	Preventol D-7	Cellulose	Sugar	
750	Body	–	631.68 g	11.72 g	1.2 g	–	600 g	1.0L(Kg)
850	Body	–	631.68 g	11.72 g	1.2 g	–	600 g	1.0L(Kg)
1750	Body	300.67 g	716.56 g	4.0 g	–	–	–	1.0L(Kg)
1900	Body	300.67 g	716.56 g	4.0 g	–	–	–	1.0L(Kg)
2450	Body	301.7ml	698.3ml	–	–	–	–	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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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

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between the lowest measured plane and the surface. The next step uses 3D interpolation to get all points within the measured volume. In the last step, a 1g cube is placed numerically into the volume and its averaged SAR is calculated. This cube is 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.

$$SAR = \frac{\sigma}{\rho}|E|^2 = c\frac{\delta T}{\delta t}$$

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:

- 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.

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- The measured volume around the temperature probe is not well defined. It is difficult to calculate the energy transfer from a surrounding gradient temperature field into the probe. These effects must be considered, since temperature probes are calibrated in liquid with homogeneous temperatures. There is no traceable standard for temperature rise measurements.
- The calibration depends on the assessment of the specific density, the heat capacity and the conductivity of the medium. While the specific density and heat capacity can be measured accurately with standardized procedures (~ 2% for c; much better for ρ) , there is no standard for the measurement of the conductivity. Depending on the method and liquid, the error can well exceed ±5%.
- Temperature rise measurements are not very sensitive and therefore are often performed at a higher power level than the E-field measurements. The nonlinearities in the system (e.g., power measurements, different components, etc.) must be considered.

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

1.12.2 Calibration with Analytical Fields

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

When using calculated fields in lossy liquids for probe calibration, several points must be considered in the assessment of the uncertainty:

- The setup must enable accurate determination of the incident power.
- The accuracy of the calculated field strength will depend on the assessment of the dielectric parameters of the liquid.
- Due to the small wavelength in liquids with high permittivity, even small 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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1.13 Test Standards and Limits

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

(1) Limits for Occupational/Controlled exposure: 0.4 W/kg as averaged over the whole-body and spatial peak SAR not exceeding 8 W/kg as averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the hands, wrists, feet and ankles where the spatial peak SAR shall not exceed 20 W/kg, as averaged over an 10 grams of tissue (defined as a tissue volume in the shape of a cube).

(2) Occupational/Controlled limits apply when persons are exposed as a consequence of their employment provided these persons are fully aware of and exercise control over their exposure. Awareness of exposure can be accomplished by use of warning labels or by specific training or education through appropriate means, such as an RF safety program in a work environment.

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

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

Table 4. RF exposure limits

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

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2. Summary of Results

LTE FDD Band II (without power reduction)

Mode	Bandwidth (MHz)	Modulation	RB Size	RB start	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
												Measured	Reported	
LTE Band 2	20MHz	QPSK	1 RB	0	Back side	10mm	18700	1860	24	23.54	11.17%	1.150	1.278	-
					Back side	10mm	18900	1880	24	23.60	9.65%	1.260	1.382	171
					Back side*	10mm	18900	1880	24	23.60	9.65%	1.210	1.327	-
					Back side	10mm	19100	1900	24	23.84	3.75%	1.200	1.245	-
					Top side	5mm	18700	1860	24	23.54	11.17%	1.120	1.245	-
					Top side	5mm	18900	1880	24	23.60	9.65%	1.150	1.261	-
					Top side	5mm	19100	1900	24	23.84	3.75%	1.110	1.152	-
					Bottom side	0mm	19100	1900	24	23.84	3.75%	0.060	0.062	-
					Left side	0mm	18700	1860	24	23.54	11.17%	0.831	0.924	-
					Left side	0mm	18900	1880	24	23.60	9.65%	0.883	0.968	-
					Left side	0mm	19100	1900	24	23.84	3.75%	1.140	1.183	-
					Right side	0mm	19100	1900	24	23.84	3.75%	0.125	0.130	-
			50 RB	0	Back side	10mm	18700	1860	23	22.59	9.90%	1.160	1.275	-
					Back side	10mm	18900	1880	23	22.70	7.15%	0.958	1.027	-
					Back side	10mm	19100	1900	23	22.66	8.14%	1.210	1.309	-
					Top side	5mm	18700	1860	23	22.59	9.90%	0.942	1.035	-
					Top side	5mm	18900	1880	23	22.70	7.15%	1.000	1.072	-
					Top side	5mm	19100	1900	23	22.66	8.14%	0.961	1.039	-
					Bottom side	0mm	18900	1880	23	22.70	7.15%	0.082	0.088	-
					Left side	0mm	18700	1860	23	22.59	9.90%	0.843	0.926	-
					Left side	0mm	18900	1880	23	22.70	7.15%	0.884	0.947	-
					Left side	0mm	19100	1900	23	22.66	8.14%	0.872	0.943	-
					Right side	0mm	18900	1880	23	22.70	7.15%	0.093	0.100	-
			100 RB		Back side	10mm	18700	1860	23	22.45	13.50%	1.180	1.339	-
					Back side	10mm	18900	1880	23	22.53	11.43%	0.906	1.010	-
					Back side	10mm	19100	1900	23	22.37	15.61%	1.190	1.376	-
					Top side	5mm	18700	1860	23	22.45	13.50%	0.939	1.066	-
					Top side	5mm	18900	1880	23	22.53	11.43%	0.956	1.065	-
					Top side	5mm	19100	1900	23	22.37	15.61%	1.080	1.249	-
					Bottom side	0mm	18900	1880	23	22.53	11.43%	0.071	0.079	-
					Left side	0mm	18700	1860	23	22.45	13.50%	0.885	1.004	-
					Left side	0mm	18900	1880	23	22.53	11.43%	0.853	0.950	-
					Left side	0mm	19100	1900	23	22.37	15.61%	0.868	1.004	-
					Right side	0mm	18900	1880	23	22.53	11.43%	0.078	0.087	-

*- repeated at the highest SAR measurement according to the FCC KDB865664D01v01r03

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LTE FDD Band II (with power reduction)

Mode	Bandwidth (MHz)	Modulation	RB Size	RB start	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
												Measured	Reported	
LTE Band 2	20MHz	QPSK	1 RB	0	Back side	0mm	18700	1860	19	17.58	38.68%	0.915	1.269	-
					Back side	0mm	18900	1880	19	17.83	30.92%	0.898	1.176	-
					Back side	0mm	19100	1900	19	17.78	32.43%	0.830	1.099	-
					Top side	0mm	18700	1860	19	17.58	38.68%	0.617	0.856	-
					Top side	0mm	18900	1880	19	17.83	30.92%	0.677	0.886	-
					Top side	0mm	19100	1900	19	17.78	32.43%	0.665	0.881	-
			50 RB	0	Back side	0mm	18700	1860	18	16.47	42.23%	0.925	1.316	-
					Back side	0mm	18900	1880	18	16.74	33.66%	0.999	1.335	-
					Back side	0mm	19100	1880	18	16.70	34.90%	0.862	1.163	-
					Top side	0mm	18700	1860	18	16.47	42.23%	0.622	0.885	-
					Top side	0mm	18900	1880	18	16.74	33.66%	0.689	0.921	-
					Top side	0mm	19100	1900	18	16.70	34.90%	0.654	0.882	-
			100 RB		Back side	0mm	18700	1860	18	16.43	43.55%	0.978	1.404	-
					Back side	0mm	18900	1880	18	16.40	44.54%	0.930	1.344	-
					Back side	0mm	19100	1880	18	16.32	47.23%	0.877	1.291	-
					Top side	0mm	18700	1860	18	16.43	43.55%	0.604	0.867	-
					Top side	0mm	18900	1880	18	16.40	44.54%	0.612	0.885	-
					Top side	0mm	19100	1900	18	16.32	47.23%	0.588	0.866	-

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LTE FDD Band IV (without power reduction)

Mode	Bandwidth (MHz)	Modulation	RB Size	RB start	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
												Measured	Reported	
LTE Band 4	20MHz	QPSK	1 RB	0	Back side	10mm	20050	1720	24	23.90	2.33%	0.989	1.012	172
					Back side*	10mm	20050	1720	24	23.90	2.33%	0.965	0.987	-
					Back side	10mm	20175	1732.5	24	23.95	1.16%	0.798	0.807	-
					Back side	10mm	20300	1745	24	23.97	0.69%	0.968	0.975	-
					Top side	5mm	20300	1745	24	23.97	0.69%	0.777	0.782	-
					Bottom side	0mm	20300	1745	24	23.97	0.69%	0.125	0.126	-
					Left side	0mm	20300	1745	24	23.97	0.69%	0.569	0.573	-
					Right side	0mm	20300	1745	24	23.97	0.69%	0.212	0.213	-
			50 RB	0	Back side	10mm	20050	1720	23	22.98	0.46%	0.750	0.753	-
					Top side	5mm	20050	1720	23	22.98	0.46%	0.704	0.707	-
					Bottom side	0mm	20050	1720	23	22.98	0.46%	0.143	0.144	-
					Left side	0mm	20050	1720	23	22.98	0.46%	0.443	0.445	-
					Right side	0mm	20050	1720	23	22.98	0.46%	0.164	0.165	-
			100 RB		Back side	10mm	20300	1745	23	22.98	0.46%	0.766	0.770	-
					Top side	5mm	20300	1745	23	22.98	0.46%	0.615	0.618	-
					Bottom side	0mm	20300	1745	23	22.98	0.46%	0.125	0.126	-
					Left side	0mm	20300	1745	23	22.98	0.46%	0.415	0.417	-
					Right side	0mm	20300	1745	23	22.98	0.46%	0.156	0.157	-

*- repeated at the highest SAR measurement according to the FCC KDB865664D01v01r03

LTE FDD Band IV (with power reduction)

Mode	Bandwidth (MHz)	Modulation	RB Size	RB start	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
												Measured	Reported	
LTE Band 4	20MHz	QPSK	1 RB	0	Back side	0mm	20050	1720	18.5	17.32	31.22%	0.905	1.188	-
					Back side	0mm	20175	1732.5	18.5	17.17	35.83%	0.878	1.193	-
					Back side	0mm	20300	1745	18.5	17.13	37.09%	0.914	1.253	-
					Top side	0mm	20050	1720	18.5	17.32	31.22%	0.391	0.513	-
			50 RB	0	Back side	0mm	20050	1720	17.5	16.12	37.40%	0.897	1.233	-
					Back side	0mm	20175	1732.5	17.5	15.98	41.91%	0.897	1.273	-
					Back side	0mm	20300	1745	17.5	15.94	43.22%	0.904	1.295	-
					Top side	0mm	20050	1720	17.5	16.12	37.40%	0.387	0.532	-
			100 RB		Back side	0mm	20050	1720	17.5	15.89	44.88%	0.911	1.320	-
					Back side	0mm	20175	1732.5	17.5	15.79	48.25%	0.889	1.318	-
					Back side	0mm	20300	1745	17.5	15.91	44.21%	0.908	1.309	-
					Top side	0mm	20300	1745	17.5	15.91	44.21%	0.401	0.578	-

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LTE FDD Band V (without power reduction)

Mode	Bandwidth (MHz)	Modulation	RB Size	RB start	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
												Measured	Reported	
LTE Band 5	10MHz	QPSK	1 RB	0	Back side	10mm	20600	844	24	23.24	19.12%	0.492	0.586	-
					Top side	5mm	20600	844	24	23.24	19.12%	0.432	0.515	-
					Bottom side	0mm	20600	844	24	23.24	19.12%	0.011	0.013	-
					Left side	0mm	20600	844	24	23.24	19.12%	0.365	0.435	-
					Right side	0mm	20600	844	24	23.24	19.12%	0.123	0.147	-
			25 RB	0	Back side	10mm	20450	829	23	22.13	22.18%	0.504	0.616	-
					Top side	5mm	20450	829	23	22.13	22.18%	0.526	0.643	-
					Bottom side	0mm	20450	829	23	22.13	22.18%	0.030	0.036	-
					Left side	0mm	20450	829	23	22.13	22.18%	0.355	0.434	-
					Right side	0mm	20450	829	23	22.13	22.18%	0.121	0.148	-
			50 RB		Back side	10mm	20450	829	23	22.07	23.88%	0.503	0.623	-
					Top side	5mm	20450	829	23	22.07	23.88%	0.501	0.621	-
					Bottom side	0mm	20450	829	23	22.07	23.88%	0.027	0.033	-
					Left side	0mm	20450	829	23	22.07	23.88%	0.340	0.421	-
					Right side	0mm	20450	829	23	22.07	23.88%	0.118	0.146	-

LTE FDD Band V (with power reduction)

Mode	Bandwidth (MHz)	Modulation	RB Size	RB start	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
												Measured	Reported	
LTE Band 5	10MHz	QPSK	1 RB	0	Back side	0mm	20450	829	22	20.33	46.89%	0.665	0.977	-
					Back side	0mm	20525	836.5	22	20.17	52.41%	0.623	0.949	-
					Back side	0mm	20600	844	22	20.28	48.59%	0.612	0.909	-
					Top side	0mm	20450	829	22	20.33	46.89%	0.497	0.730	-
			25 RB	0	Back side	0mm	20450	829	21	19.32	47.23%	0.669	0.985	173
					Back side	0mm	20525	836.5	21	19.13	53.82%	0.632	0.972	-
					Top side	0mm	20450	829	21	19.32	47.23%	0.508	0.748	-
				25	Back side	0mm	20600	844	21	19.25	49.62%	0.614	0.919	-
			50 RB		Back side	0mm	20450	829	21	19.18	52.05%	0.615	0.935	-
					Back side	0mm	20525	836.5	21	19.15	53.11%	0.632	0.968	-
					Back side	0mm	20600	844	21	19.23	50.31%	0.659	0.991	-
					Top side	0mm	20600	844	21	19.23	50.31%	0.489	0.735	-

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LTE FDD Band XIII (without power reduction)

Mode	Bandwidth (MHz)	Modulation	RB Size	RB start	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
												Measured	Reported	
LTE Band 13	10MHz	QPSK	1 RB	25	Back side	10mm	23230	782	24	22.74	33.66%	0.473	0.632	-
					Top side	5mm	23230	782	24	22.74	33.66%	0.517	0.691	-
					Bottom side	0mm	23230	782	24	22.74	33.66%	0.024	0.032	-
					Left side	0mm	23230	782	24	22.74	33.66%	0.211	0.282	-
					Right side	0mm	23230	782	24	22.74	33.66%	0.057	0.076	-
			25 RB	0	Back side	10mm	23230	782	23	22.32	16.95%	0.400	0.468	-
					Top side	5mm	23230	782	23	22.32	16.95%	0.436	0.510	-
					Bottom side	0mm	23230	782	23	22.32	16.95%	0.022	0.026	-
					Left side	0mm	23230	782	23	22.32	16.95%	0.277	0.324	-
					Right side	0mm	23230	782	23	22.32	16.95%	0.047	0.055	-
			50 RB		Back side	10mm	23230	782	23	22.22	19.67%	0.393	0.470	-
					Top side	5mm	23230	782	23	22.22	19.67%	0.344	0.412	-
					Bottom side	0mm	23230	782	23	22.22	19.67%	0.023	0.027	-
					Left side	0mm	23230	782	23	22.22	19.67%	0.277	0.331	-
					Right side	0mm	23230	782	23	22.22	19.67%	0.048	0.057	-

LTE FDD Band XIII (with power reduction)

Mode	Bandwidth (MHz)	Modulation	RB Size	RB start	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
												Measured	Reported	
LTE Band 13	10MHz	QPSK	1 RB	0	Back side	0mm	23200	782	20.5	18.52	57.76%	0.618	0.975	-
				25	Back side	0mm	23200	782	20.5	19.01	40.93%	0.638	0.899	174
					Top side	0mm	23200	782	20.5	19.01	40.93%	0.477	0.672	-
				49	Back side	0mm	23200	782	20.5	18.58	55.60%	0.621	0.966	-
			25 RB	0	Back side	0mm	23200	782	19.5	18.19	35.21%	0.573	0.775	-
					Top side	0mm	23200	782	19.5	18.19	35.21%	0.396	0.535	-
			50 RB		Back side	0mm	23200	782	19.5	18.14	36.77%	0.566	0.774	-
					Top side	0mm	23200	782	19.5	18.14	36.77%	0.392	0.536	-

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LTE FDD Band XVII (without power reduction)

Mode	Bandwidth (MHz)	Modulation	RB Size	RB start	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
												Measured	Reported	
LTE Band 17	10MHz	QPSK	1 RB	0	Back side	10mm	23800	711	24	22.85	30.32%	0.376	0.490	-
					Top side	5mm	23800	711	24	22.85	30.32%	0.151	0.197	-
					Bottom side	0mm	23800	711	24	22.85	30.32%	0.015	0.020	-
					Left side	0mm	23800	711	24	22.85	30.32%	0.108	0.141	-
					Right side	0mm	23800	711	24	22.85	30.32%	0.051	0.066	-
			25 RB	0	Back side	10mm	23780	709	23	21.81	31.52%	0.299	0.393	-
					Top side	5mm	23780	709	23	21.81	31.52%	0.123	0.162	-
					Bottom side	0mm	23780	709	23	21.81	31.52%	0.021	0.027	-
					Left side	0mm	23780	709	23	21.81	31.52%	0.163	0.214	-
					Right side	0mm	23780	709	23	21.81	31.52%	0.046	0.060	-
			50 RB		Back side	10mm	23230	710	23	21.79	32.13%	0.292	0.386	-
					Top side	5mm	23230	710	23	21.79	32.13%	0.112	0.148	-
					Bottom side	0mm	23230	710	23	21.79	32.13%	0.020	0.027	-
					Left side	0mm	23230	710	23	21.79	32.13%	0.166	0.219	-
					Right side	0mm	23230	710	23	21.79	32.13%	0.044	0.058	-

LTE FDD Band XVII (with power reduction)

Mode	Bandwidth (MHz)	Modulation	RB Size	RB start	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
												Measured	Reported	
LTE Band 17	10MHz	QPSK	1 RB	0	Back side	0mm	23780	709	20.5	18.75	49.62%	0.817	1.222	-
					Back side	0mm	23800	711	20.5	18.64	53.46%	0.859	1.318	-
					Top side	0mm	23780	709	20.5	18.75	49.62%	0.812	1.215	-
					Top side	0mm	23800	711	20.5	18.64	53.46%	0.653	1.002	-
				25	Back side	0mm	23790	710	20.5	18.66	52.76%	0.863	1.318	175
					Back side*	0mm	23790	710	20.5	18.66	52.76%	0.841	1.285	-
					Top side	0mm	23790	710	20.5	18.66	52.76%	0.654	0.999	-
			25 RB	0	Back side	0mm	23800	711	19.5	17.83	46.89%	0.531	0.780	-
					Top side	0mm	23800	711	19.5	17.83	46.89%	0.512	0.752	-
			50 RB		Back side	0mm	23780	709	19.5	17.75	49.62%	0.754	1.128	-
					Back side	0mm	23790	710	19.5	17.68	52.05%	0.776	1.180	-
					Back side	0mm	23800	711	19.5	17.81	47.57%	0.746	1.101	-
					Top side	0mm	23780	709	19.5	17.75	49.62%	0.645	0.965	-
					Top side	0mm	23790	710	19.5	17.68	52.05%	0.588	0.894	-
					Top side	0mm	23800	711	19.5	17.81	47.57%	0.668	0.986	-

*- repeated at the highest SAR measurement according to the FCC KDB865664D01v01r03

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WLAN802.11 Main Antenna

Antenna	Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
									Measured	Reported	
Main	WLAN802.11 b	Back side	0	11	2462	16	15.84	3.75%	0.676	0.701	-
		Top side	0	11	2462	16	15.84	3.75%	0.0197	0.020	-
		Bottom side	0	11	2462	16	15.84	3.75%	0.0382	0.040	-
		Left side	0	1	2412	16	15.72	6.66%	0.853	0.910	-
		Left side	0	6	2437	16	15.63	8.89%	0.964	1.050	-
		Left side	0	11	2462	16	15.84	3.75%	1.17	1.214	176
		Left side*	0	11	2462	16	15.84	3.75%	1.11	1.152	-
		Right side	0	11	2462	16	15.84	3.75%	0.00805	0.008	-
	WLAN802.11 g	Back side	0	6	2437	16.5	16.45	1.16%	0.785	0.794	-
		Top side	0	6	2437	16.5	16.45	1.16%	0.0326	0.033	-
		Bottom side	0	6	2437	16.5	16.45	1.16%	0.0542	0.055	-
		Left side	0	2	2417	15.5	15.41	2.09%	0.723	0.738	-
		Left side	0	6	2437	16.5	16.45	1.16%	1.15	1.163	177
		Left side*	0	6	2437	16.5	16.45	1.16%	1.08	1.093	-
		Left side	0	10	2457	15.5	15.49	0.23%	0.812	0.814	-
		Right side	0	6	2437	16.5	16.45	1.16%	0.0112	0.011	-
	WLAN802.11 n (40M)	Back side	0	6	2437	16.5	16.31	4.47%	0.694	0.725	-
		Top side	0	6	2437	16.5	16.31	4.47%	0.0225	0.024	-
		Bottom side	0	6	2437	16.5	16.31	4.47%	0.0402	0.042	-
		Left side	0	4	2427	14.5	14.45	1.16%	0.749	0.758	-
		Left side	0	6	2437	16.5	16.31	4.47%	1.03	1.076	178
		Left side*	0	6	2437	16.5	16.31	4.47%	0.991	1.035	-
		Right side	0	6	2437	16.5	16.31	4.47%	0.0101	0.011	-

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

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WLAN802.11 Main Antenna

Antenna	Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
									Measured	Reported	
Main	WLAN802.11 ac (80M)5.2G	Back side	0	42	5210	12.5	12.43	1.62%	0.489	0.497	-
		Top side	0	42	5210	12.5	12.43	1.62%	0.0183	0.019	-
		Bottom side	0	42	5210	12.5	12.43	1.62%	0.0059	0.006	-
		Left side	0	42	5210	12.5	12.43	1.62%	1.14	1.159	179
		Left side*	0	42	5210	12.5	12.43	1.62%	1.05	1.067	-
		Right side	0	42	5210	12.5	12.43	1.62%	0.000711	0.001	-
	WLAN802.11 ac (80M)5.3G	Back side	0	58	5290	12.5	12.31	4.47%	0.846	0.884	-
		Top side	0	58	5290	12.5	12.31	4.47%	0.0162	0.017	-
		Bottom side	0	58	5290	12.5	12.31	4.47%	0.0043	0.004	-
		Left side	0	58	5290	12.5	12.31	4.47%	1.01	1.055	180
		Left side*	0	58	5290	12.5	12.31	4.47%	0.989	1.033	-
		Right side	0	58	5290	12.5	12.31	4.47%	0.0004	0.0004	-
	WLAN802.11 ac (80M)5.6G	Back side	0	106	5530	12.5	12.38	2.80%	0.904	0.929	-
		Back side	0	138	5690	12.5	12.18	7.65%	1	1.076	-
		Top side	0	106	5530	12.5	12.38	2.80%	0.028	0.029	-
		Bottom side	0	106	5530	12.5	12.38	2.80%	0.0048	0.005	-
		Left side	0	106	5530	12.5	12.38	2.80%	1.02	1.049	181
		Left side*	0	106	5530	12.5	12.38	2.80%	0.986	1.014	-
		Left side	0	138	5690	12.5	12.18	7.65%	0.821	0.884	-
		Right side	0	106	5530	12.5	12.38	2.80%	0.0005	0.0005	-
	WLAN802.11 ac (80M)5.8G	Back side	0	155	5775	12.5	12.39	2.57%	0.454	0.466	-
		Top side	0	155	5775	12.5	12.39	2.57%	0.011	0.011	-
		Bottom side	0	155	5775	12.5	12.39	2.57%	0.0042	0.004	-
		Left side	0	155	5775	12.5	12.39	2.57%	0.47	0.482	182
		Right side	0	155	5775	12.5	12.39	2.57%	0.0004	0.0004	-

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

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WLAN802.11 Aux Antenna

Antenna	Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
									Measured	Reported	
Aux	WLAN802.11 b	Back side	0	1	2412	16	15.94	1.39%	0.747	0.757	-
		Back side	0	11	2462	16	15.98	0.46%	0.921	0.925	183
		Back side*	0	11	2462	16	15.98	0.46%	0.876	0.880	-
		Top side	0	11	2462	16	15.98	0.46%	0.0294	0.030	-
		Bottom side	0	11	2462	16	15.98	0.46%	0.454	0.456	-
		Left side	0	11	2462	16	15.98	0.46%	0.013	0.013	-
		Right side	0	11	2462	16	15.98	0.46%	0.185	0.186	-
	WLAN802.11 g	Back side	0	6	2437	16.5	16.49	0.23%	0.752	0.754	184
		Top side	0	6	2437	16.5	16.49	0.23%	0.0254	0.025	-
		Bottom side	0	6	2437	16.5	16.49	0.23%	0.558	0.559	-
		Left side	0	6	2437	15.5	16.49	-20.38%	0.008	0.006	-
		Right side	0	6	2437	16.5	16.49	0.23%	0.188	0.188	-
	WLAN802.11 n (40M)	Back side	0	4	2427	14.5	14.48	0.46%	0.568	0.571	-
		Back side	0	6	2437	16.5	16.42	1.86%	0.786	0.801	185
		Top side	0	6	2437	16.5	16.42	1.86%	0.0226	0.023	-
		Bottom side	0	6	2437	16.5	16.42	1.86%	0.558	0.568	-
		Left side	0	6	2437	16.5	16.42	1.86%	0.011	0.011	-
		Right side	0	6	2437	16.5	16.42	1.86%	0.269	0.274	-
	WLAN802.11 ac (80M)5.2G	Back side	0	42	5210	12.5	12.47	0.69%	0.442	0.445	186
		Top side	0	42	5210	12.5	12.47	0.69%	0.0355	0.036	-
		Bottom side	0	42	5210	12.5	12.47	0.69%	0.438	0.441	-
		Left side	0	42	5210	12.5	12.47	0.69%	0.000365	0.0004	-
		Right side	0	42	5210	12.5	12.47	0.69%	0.279	0.281	-
	WLAN802.11 ac (80M)5.3G	Back side	0	58	5290	12.5	12.36	3.28%	0.463	0.478	187
		Top side	0	58	5290	12.5	12.36	3.28%	0.0265	0.027	-
		Bottom side	0	58	5290	12.5	12.36	3.28%	0.397	0.410	-
		Left side	0	58	5290	12.5	12.36	3.28%	0.0002	0.0002	-
		Right side	0	58	5290	12.5	12.36	3.28%	0.309	0.319	-
	WLAN802.11 ac (80M)5.6G	Back side	0	106	5530	12.5	12.49	0.23%	0.905	0.907	-
		Back side	0	138	5690	12.5	12.31	4.47%	1.13	1.181	188
		Back side*	0	138	5690	12.5	12.31	4.47%	1.05	1.097	-
		Top side	0	106	5530	12.5	12.49	0.23%	0.0227	0.023	-
		Bottom side	0	106	5530	12.5	12.49	0.23%	0.61	0.611	-
		Left side	0	106	5530	12.5	12.49	0.23%	0.0003	0.000	-
		Right side	0	106	5530	12.5	12.49	0.23%	0.572	0.573	-
	WLAN802.11 ac (80M)5.8G	Back side	0	155	5775	12.5	12.48	0.46%	0.81	0.814	189
		Back side*	0	155	5775	12.5	12.48	0.46%	0.786	0.790	-
		Top side	0	155	5775	12.5	12.48	0.46%	0.0212	0.021	-
		Bottom side	0	155	5775	12.5	12.48	0.46%	0.341	0.343	-
		Left side	0	155	5775	12.5	12.48	0.46%	0.0001	0.000	-
		Right side	0	155	5775	12.5	12.48	0.46%	0.322	0.323	-

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

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Bluetooth

Antenna	Mode	Position	Distance (mm)	CH	Freq. (MHz)	Measured Avg. Power	Averaged SAR over 1g (W/kg)	Plot page
							Measured	
Aux	Bluetooth	Back side	0	0	2402	3.12	0.0432	-
		Back side	0	39	2441	3.73	0.0493	190
		Back side	0	78	2480	3.54	0.0452	-
		Top side	0	39	2462	3.73	0.0015	-
		Bottom side	0	39	2462	3.73	0.0347	-
		Left side	0	39	2462	3.73	0.00339	-
		Right side	0	39	2462	3.73	0.0143	-

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3. Simultaneous Transmission Analysis

Simultaneous Transmission Scenarios:

Simultaneous Transmit Configurations	Body
LTE B2/4/5/13/17 + 2.4/5GHz WLAN Main	Yes
LTE B2/4/5/13/17 + 2.4/5GHz WLAN Aux	Yes
LTE B2/4/5/13/17 + 2.4/5GHz WLAN MIMO	Yes
LTE B2/4/5/13/17 + 2.4/5GHz WLAN Main + BT	Yes

Note:
1. WWAN and WLAN may transmit simultaneously.
2. Bluetooth and WLAN Aux share the same antenna path, and BT can't transmit with WLAN Aux simultaneously.
3. For 2.4/5GHz WLAN Main and Aux antennas, the maximum output power of each antenna during simultaneous transmission (for 802.11n/ac) is much less than that used in standalone transmission (for 802.11a/b/g/n/ac), so it is more conservative to use the sum of 1-g SAR provision in KDB447498D01 to exclude the SAR measurement for 802.11n/ac MIMO.
4. There are so many combination for simultaneous transmission, we choose the worst cases(all transmitters transmit simultaneously at maximum power) to do the simultaneous transmission analysis to capture the worst cases.

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3.1 Estimated SAR calculation

According to KDB447498 D01v05 – When standalone SAR test exclusion applies to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to following to determine simultaneous transmission SAR test exclusion:

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

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

3.2 SPLSR evaluation and analysis

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

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

The ratio is determined by **(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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LTE FDD Band II + 2.4 GHz WLAN MIMO

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
1	LTE B2	Back side	0	1.404	0.794	0.925	**3.123**	Analyzed as below
		Top side	0	1.261	0.033	0.030	1.324	ΣSAR<1.6, Not required
		Bottom side	0	0.088	0.055	0.568	0.711	ΣSAR<1.6, Not required
		Left side	0	1.183	1.214	0.013	**2.41**	Analyzed as below
		Right side	0	0.130	0.011	0.274	0.415	ΣSAR<1.6, Not required

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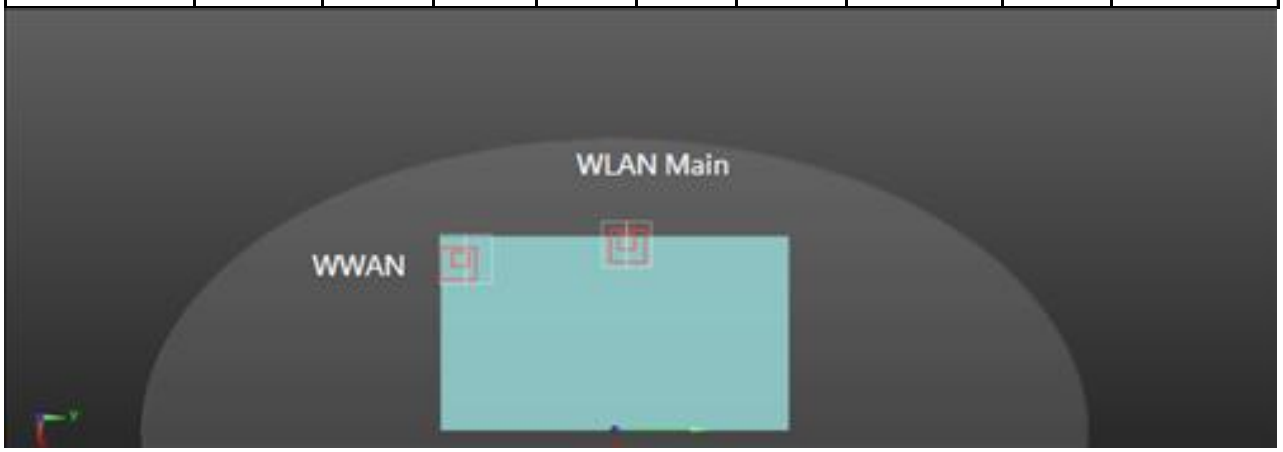
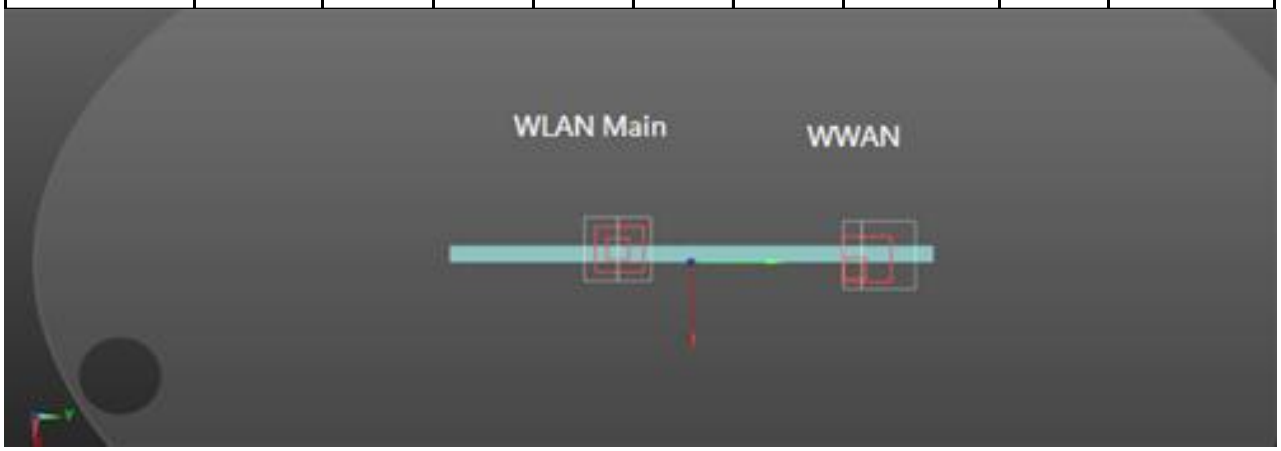
WWAN + WLAN Main

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WWAN	Back side	1.404	-11.25	-9.89	-0.22	2.198	106.8	0.031	SPLSR<0.04, Not required
WLAN Main		0.794	-12.44	0.72	-0.25				



Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WWAN	Left side	1.183	-0.19	6.80	-0.37	2.397	100.9	0.037	SPLSR<0.04, Not required
WLAN Main		1.214	-0.64	-3.28	-0.38				



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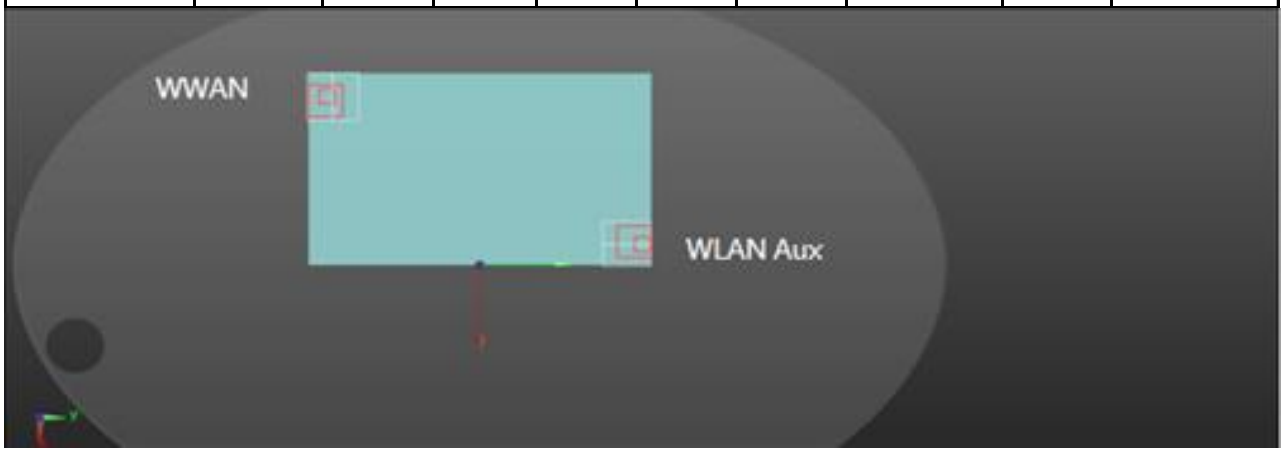
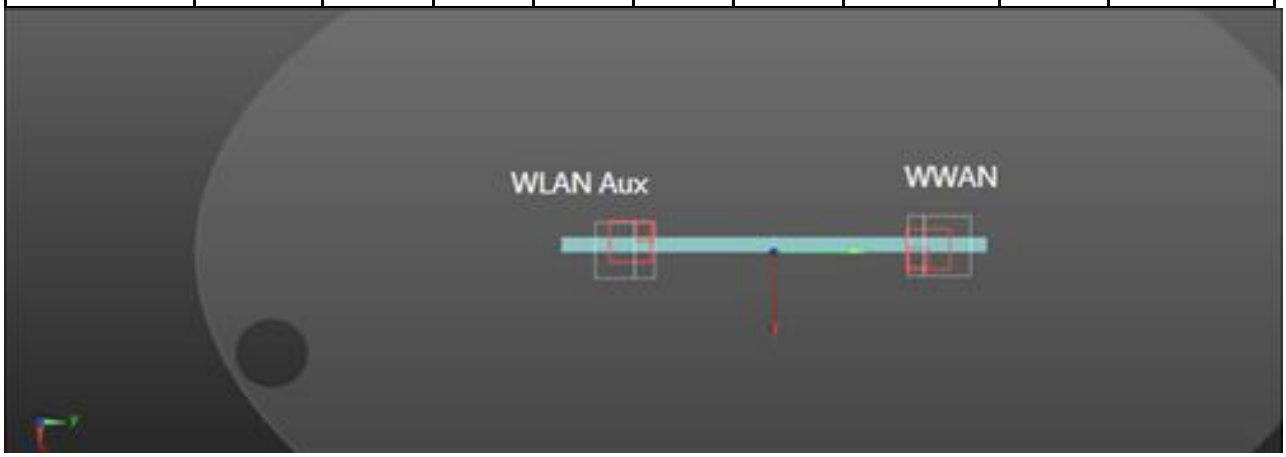
WWAN + WLAN Aux

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WWAN	Back side	1.404	-11.25	-9.89	-0.22	2.329	224.6	0.016	SPLSR<0.04, Not required
WLAN Aux		0.925	-1.28	10.24	-0.36				



Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WWAN	Left side	1.183	-0.19	6.80	-0.37	1.196	134.5	0.010	SPLSR<0.04, Not required
WLAN Aux		0.013	-1.60	6.56	0.30				



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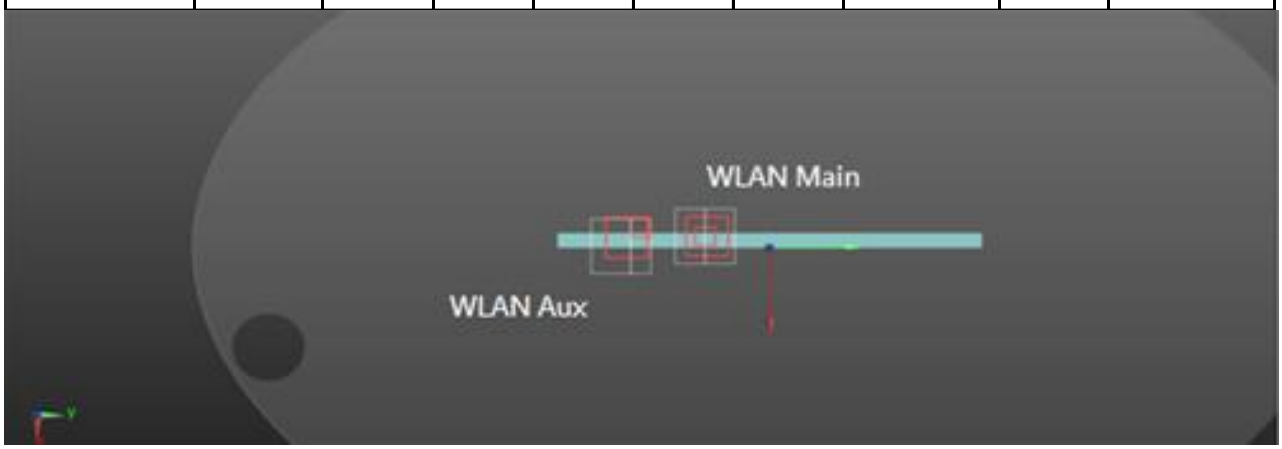
WLAN Main + WLAN Aux

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WLAN Main	Back side	0.794	-12.44	0.72	-0.25	1.719	146.7	0.015	SPLSR<0.04, Not required
WLAN Aux		0.925	-1.28	10.24	-0.36				

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WLAN Main	Left side	1.214	-0.64	-3.28	-0.38	1.227	34.8	0.039	SPLSR<0.04, Not required
WLAN Aux		0.013	-1.60	-6.56	0.30				



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LTE FDD Band IV + 2.4 GHz WLAN MIMO

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
2	LTE B4	Back side	0	1.320	0.794	0.925	**3.039**	Analyzed as below
		Top side	0	0.782	0.033	0.030	0.845	ΣSAR<1.6, Not required
		Bottom side	0	0.144	0.055	0.568	0.767	ΣSAR<1.6, Not required
		Left side	0	0.573	1.214	0.013	**1.8**	Analyzed as below
		Right side	0	0.213	0.011	0.274	0.498	ΣSAR<1.6, Not required

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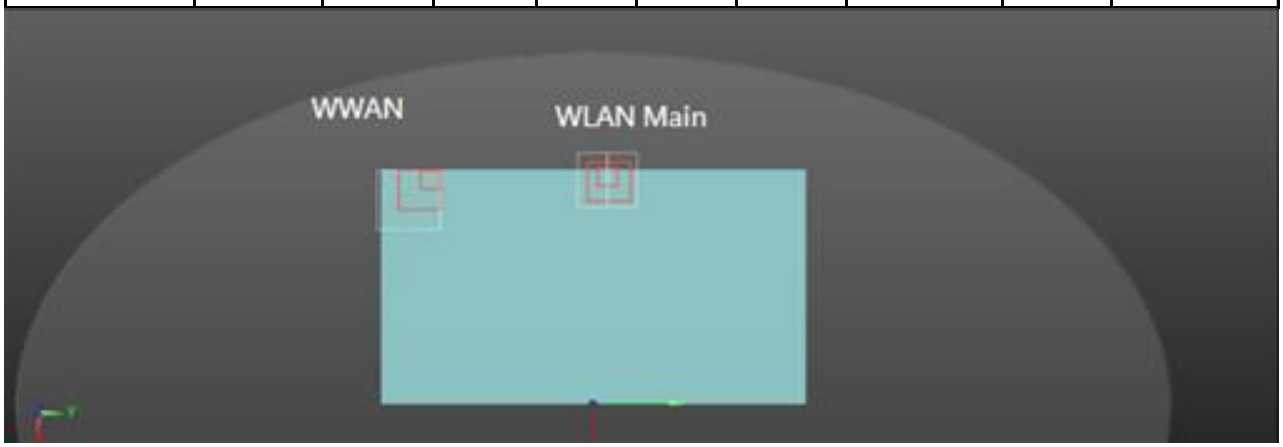
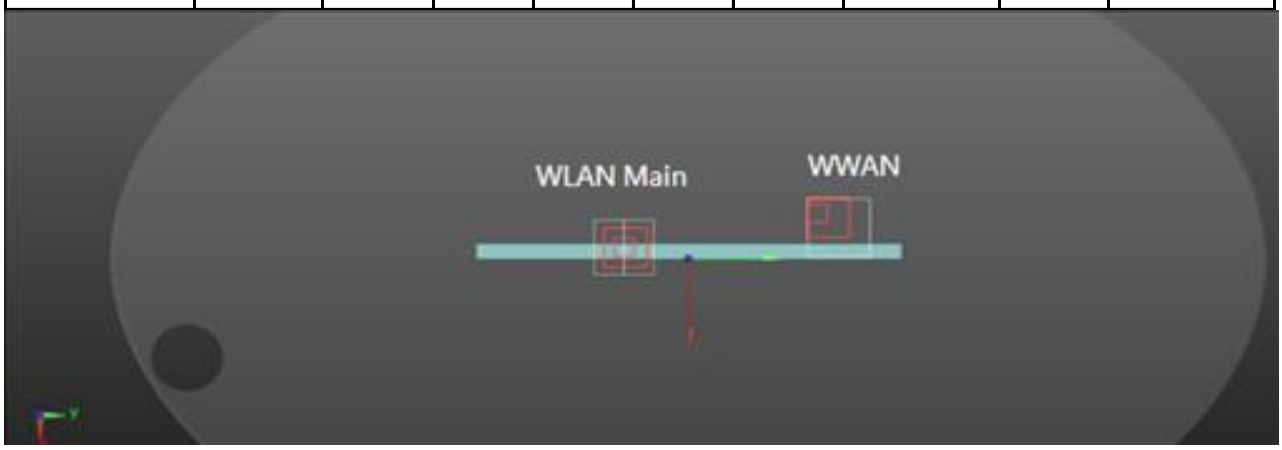
WWAN + WLAN Main

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WWAN	Back side	1.320	-12.75	-7.80	-0.20	2.114	85.3	0.036	SPLSR<0.04, Not required
WLAN Main		0.794	-12.44	0.72	-0.25				



Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WWAN	Left side	0.573	-2.50	6.05	0.99	1.787	96.1	0.025	SPLSR<0.04, Not required
WLAN Main		1.214	-0.64	-3.28	-0.38				



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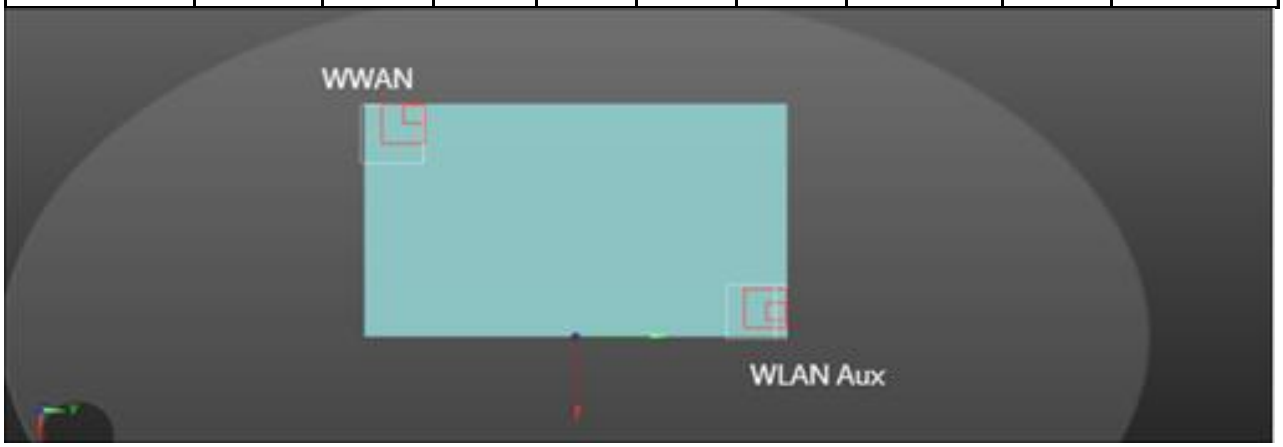
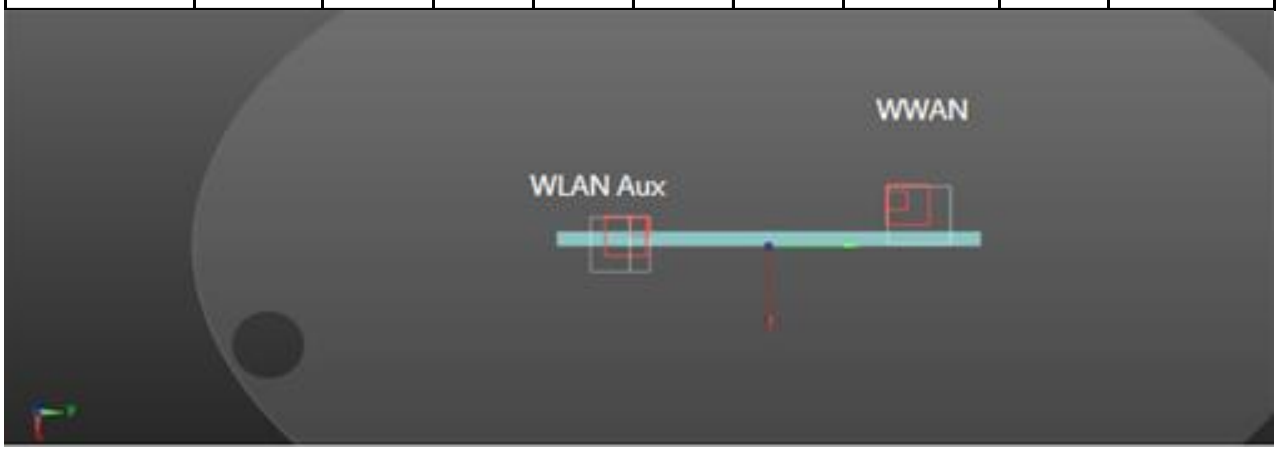
WWAN + WLAN Aux

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WWAN	Back side	1.320	-12.75	-7.80	-0.20	2.245	213.8	0.016	SPLSR<0.04, Not required
WLAN Aux		0.925	-1.28	4.00	-0.36				



Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WWAN	Left side	0.573	-2.50	6.05	0.99	0.586	126.6	0.004	SPLSR<0.04, Not required
WLAN Aux		0.013	-1.60	-6.56	0.30				



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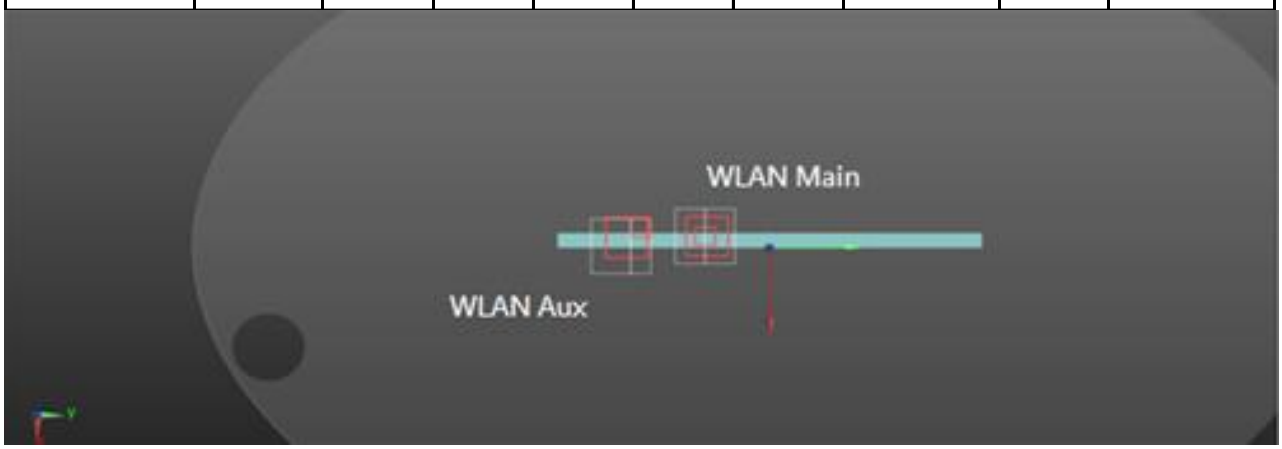
WLAN Main + WLAN Aux

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WLAN Main	Back side	0.794	-12.44	0.72	-0.25	1.719	146.7	0.015	SPLSR<0.04, Not required
WLAN Aux		0.925	-1.28	10.24	-0.36				

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WLAN Main	Left side	1.214	-0.64	-3.28	-0.38	1.227	34.8	0.039	SPLSR<0.04, Not required
WLAN Aux		0.013	-1.60	-6.56	0.30				



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LTE FDD Band V + 2.4 GHz WLAN MIMO

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
3	LTE B5	Back side	0	0.991	0.794	0.925	**2.71**	Analyzed as below
		Top side	0	0.748	0.033	0.030	0.811	ΣSAR<1.6, Not required
		Bottom side	0	0.036	0.055	0.568	0.659	ΣSAR<1.6, Not required
		Left side	0	0.435	1.214	0.013	**1.662**	Analyzed as below
		Right side	0	0.148	0.011	0.274	0.433	ΣSAR<1.6, Not required

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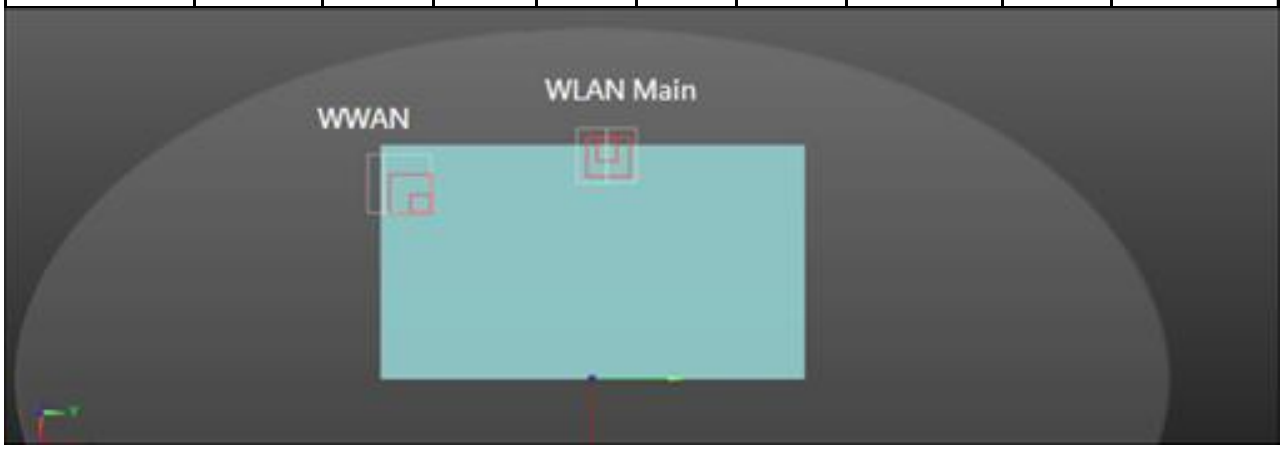
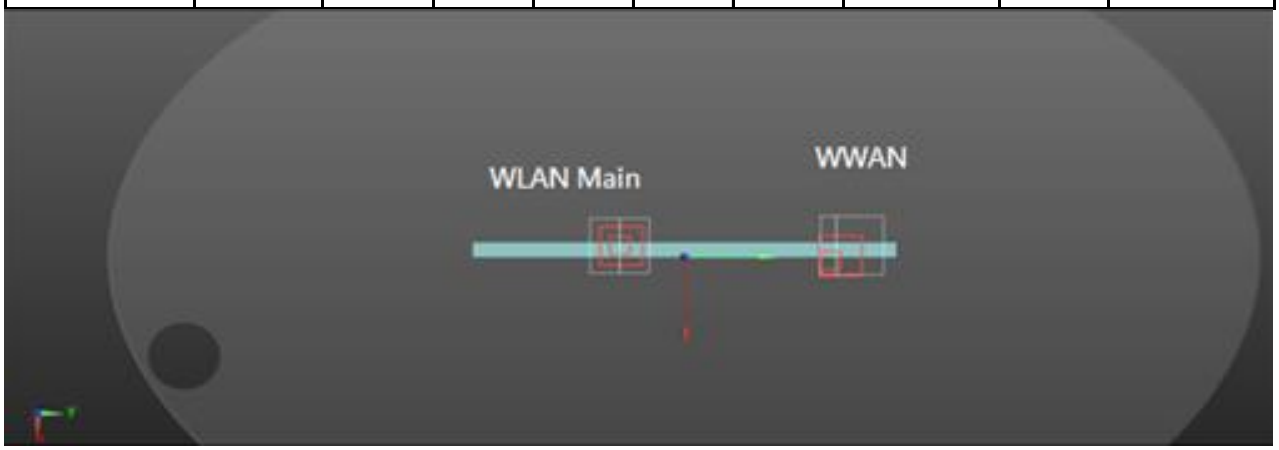
WWAN + WLAN Main

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WWAN	Back side	0.991	-9.10	-8.25	-0.28	1.785	95.7	0.025	SPLSR<0.04, Not required
WLAN Main		0.794	-12.44	0.72	-0.25				



Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WWAN	Left side	0.435	0.15	6.95	2.99	1.649	108	0.020	SPLSR<0.04, Not required
WLAN Main		1.214	-0.64	-3.28	-0.38				



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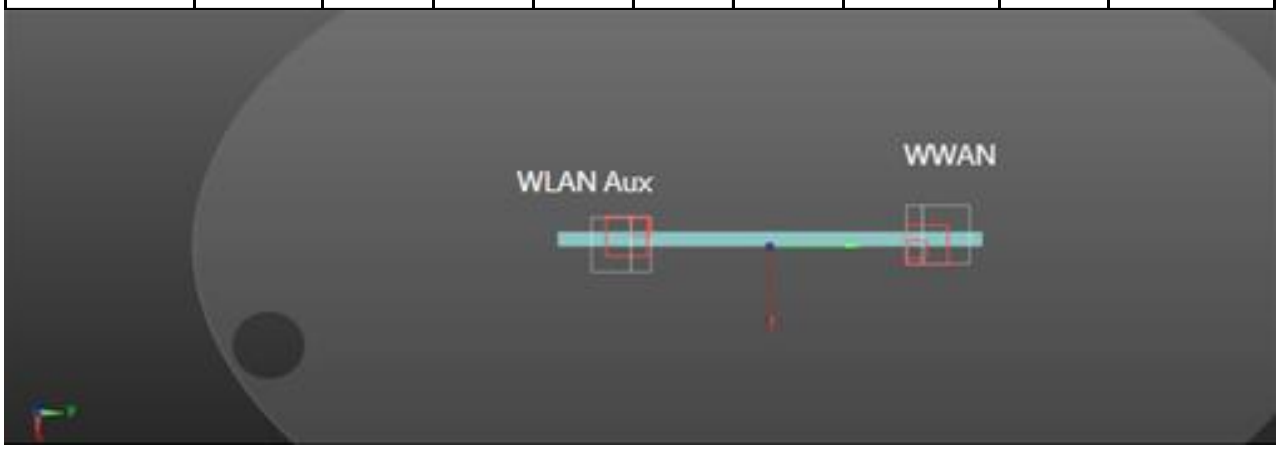
WWAN + WLAN Aux

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WWAN	Back side	0.991	-9.10	-8.25	-0.28	1.916	200.8	0.013	SPLSR<0.04, Not required
WLAN Aux		0.925	-1.28	10.24	-0.36				

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WWAN	Left side	0.435	0.15	6.95	2.99	0.448	138.9	0.002	SPLSR<0.04, Not required
WLAN Aux		0.013	-1.60	-6.56	0.30				



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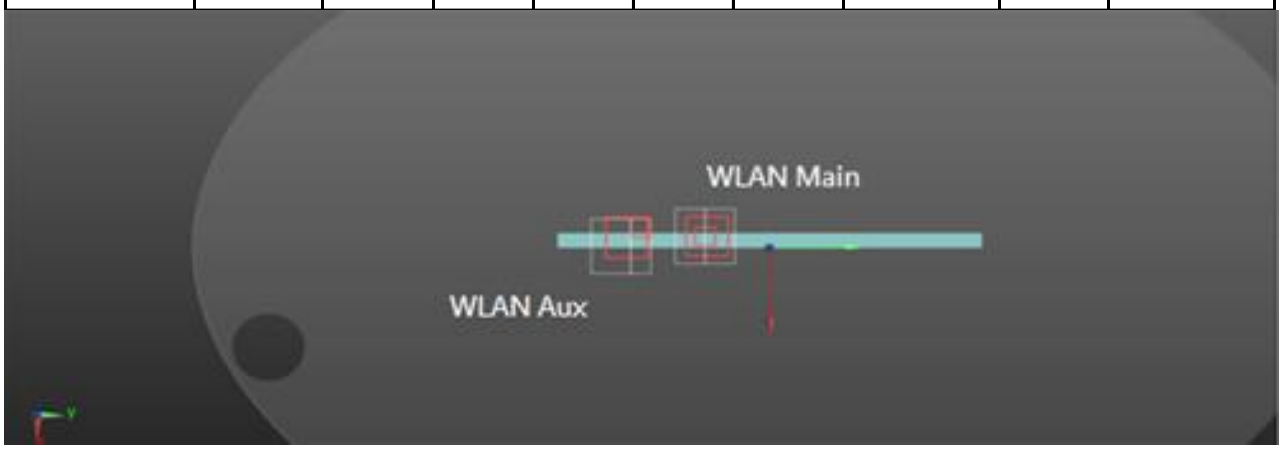
WLAN Main + WLAN Aux

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WLAN Main	Back side	0.794	-12.44	0.72	-0.25	1.719	146.7	0.015	SPLSR<0.04, Not required
WLAN Aux		0.925	-1.28	10.24	-0.36				

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WLAN Main	Left side	1.214	-0.64	-3.28	-0.38	1.227	34.8	0.039	SPLSR<0.04, Not required
WLAN Aux		0.013	-1.60	-6.56	0.30				



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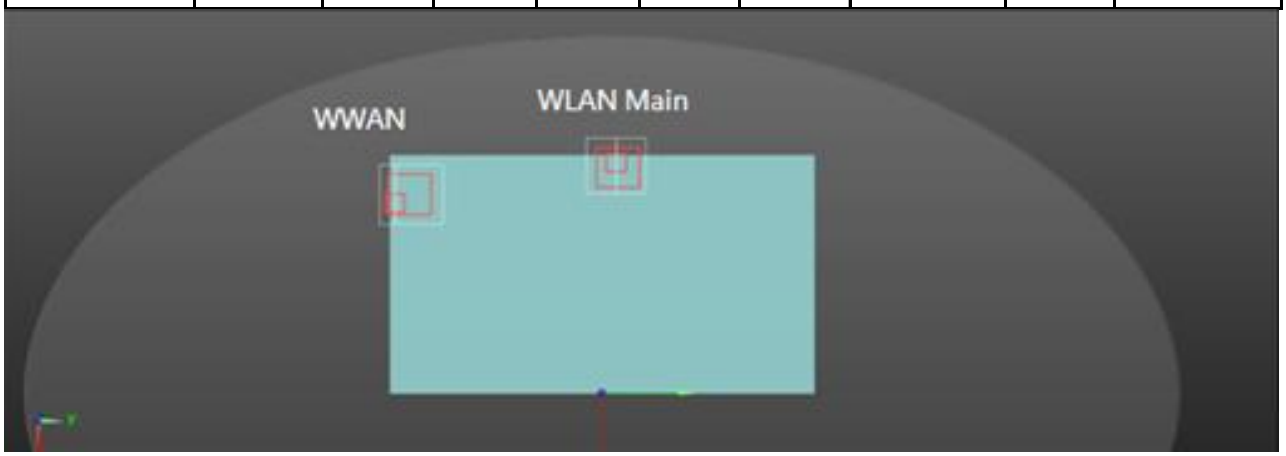
LTE FDD Band XIII + 2.4 GHz WLAN MIMO

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
4	LTE B13	Back side	0	0.975	0.794	0.925	**2.694**	Analyzed as below
		Top side	0	0.691	0.033	0.030	0.754	ΣSAR<1.6, Not required
		Bottom side	0	0.032	0.055	0.568	0.655	ΣSAR<1.6, Not required
		Left side	0	0.331	1.214	0.013	1.558	ΣSAR<1.6, Not required
		Right side	0	0.076	0.011	0.274	0.361	ΣSAR<1.6, Not required

WWAN + WLAN Main

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WWAN	Back side	0.975	-10.06	-10.66	-0.24	1.769	116.3	0.020	SPLSR<0.04, Not required
WLAN Main		0.794	-12.44	0.72	-0.25				



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WWAN + WLAN Aux

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WWAN	Back side	0.975	-10.06	-10.66	-0.24	1.9	226.7	0.012	SPLSR<0.04, Not required
WLAN Aux		0.925	-1.28	10.24	-0.36				

WLAN Main + WLAN Aux

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WLAN Main	Back side	0.794	-12.44	0.72	-0.25	1.719	146.7	0.015	SPLSR<0.04, Not required
WLAN Aux		0.925	-1.28	10.24	-0.36				

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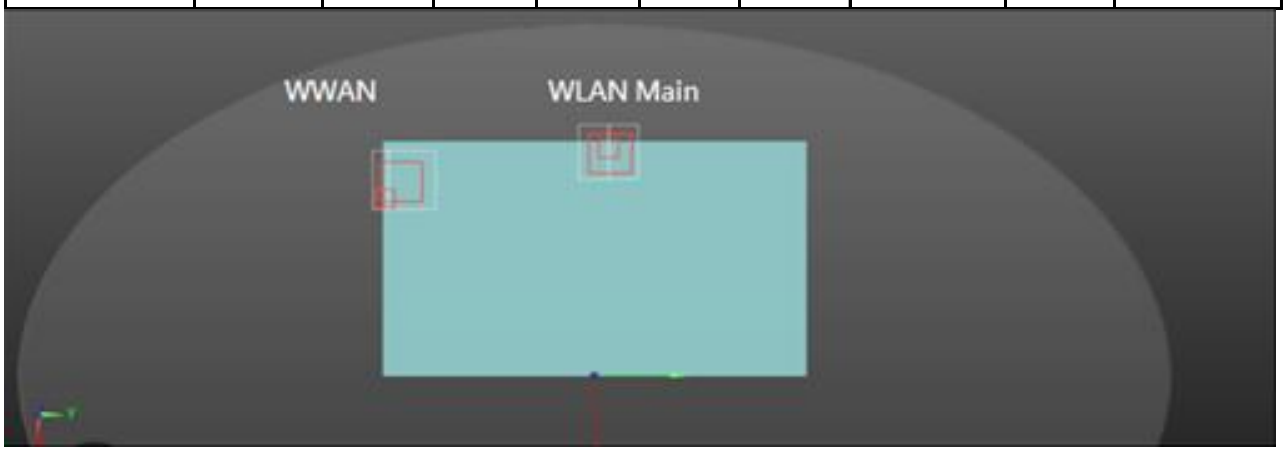
LTE FDD Band XVII + 2.4 GHz WLAN MIMO

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
5	LTE B17	Back side	0	1.318	0.794	0.925	**3.037**	Analyzed as below
		Top side	0	1.215	0.033	0.030	1.278	ΣSAR<1.6, Not required
		Bottom side	0	0.027	0.055	0.568	0.65	ΣSAR<1.6, Not required
		Left side	0	0.219	1.214	0.013	1.446	ΣSAR<1.6, Not required
		Right side	0	0.066	0.011	0.274	0.351	ΣSAR<1.6, Not required

WWAN + WLAN Main

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WWAN	Back side	1.318	-9.10	-10.66	-0.27	2.112	118.6	0.026	SPLSR<0.04, Not required
WLAN Main		0.794	-12.44	0.72	-0.25				



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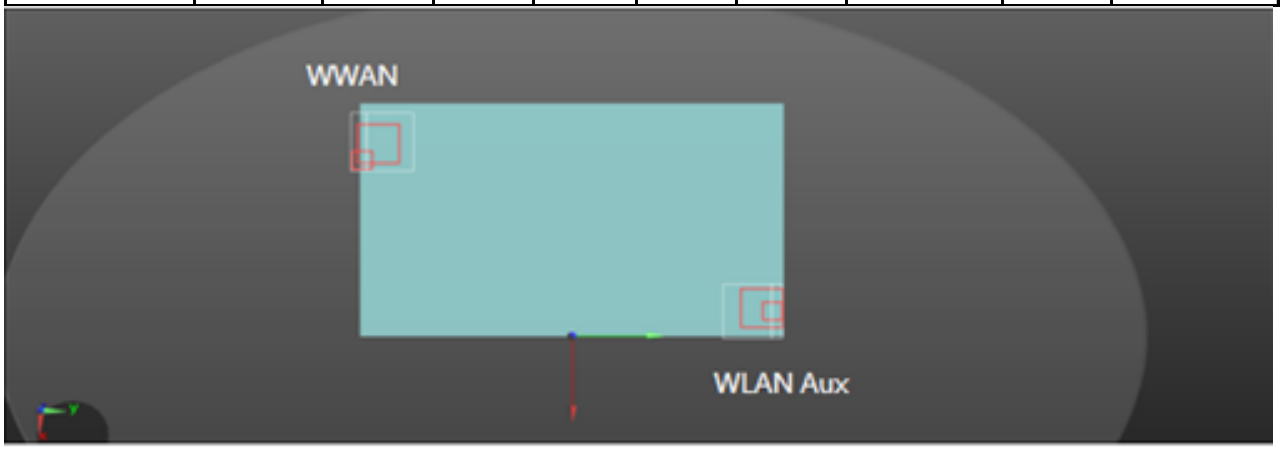
WWAN + WLAN Aux

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WWAN	Back side	1.318	-9.10	-10.66	-0.27	2.243	223.2	0.015	SPLSR<0.04, Not required
WLAN Aux		0.925	-1.28	10.24	-0.36				



WLAN Main + WLAN Aux

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WLAN Main	Back side	0.794	-12.44	0.72	-0.25	1.719	146.7	0.015	SPLSR<0.04, Not required
WLAN Aux		0.925	-1.28	10.24	-0.36				

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LTE FDD Band II + 5 GHz WLAN MIMO

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
6	LTE B2	Back side	0	1.404	1.076	1.181	**3.661**	Analyzed as below
		Top side	0	1.261	0.029	0.036	1.326	ΣSAR<1.6, Not required
		Bottom side	0	0.088	0.006	0.611	0.705	ΣSAR<1.6, Not required
		Left side	0	1.183	1.159	0.0004	**2.3424**	Analyzed as below
		Right side	0	0.130	0.001	0.573	0.704	ΣSAR<1.6, Not required

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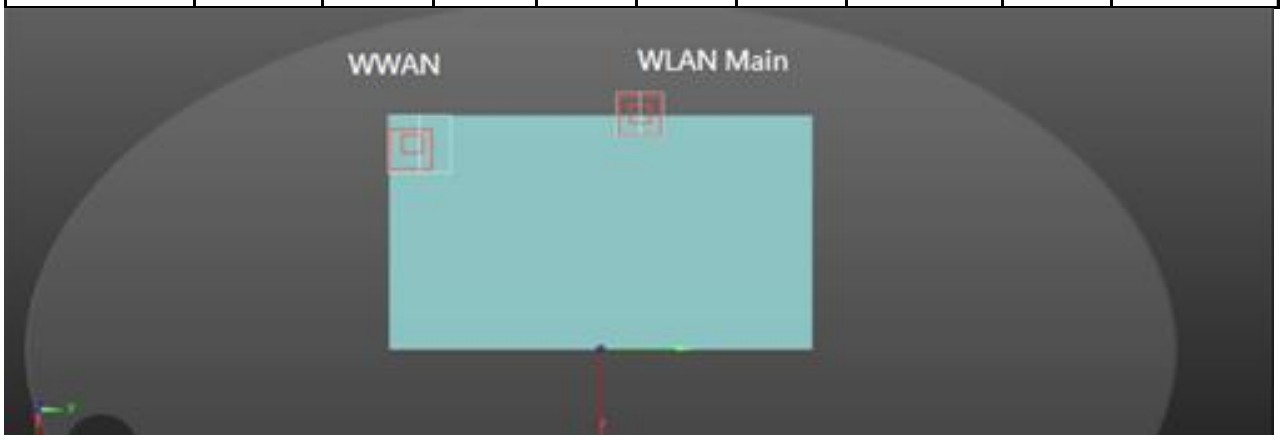
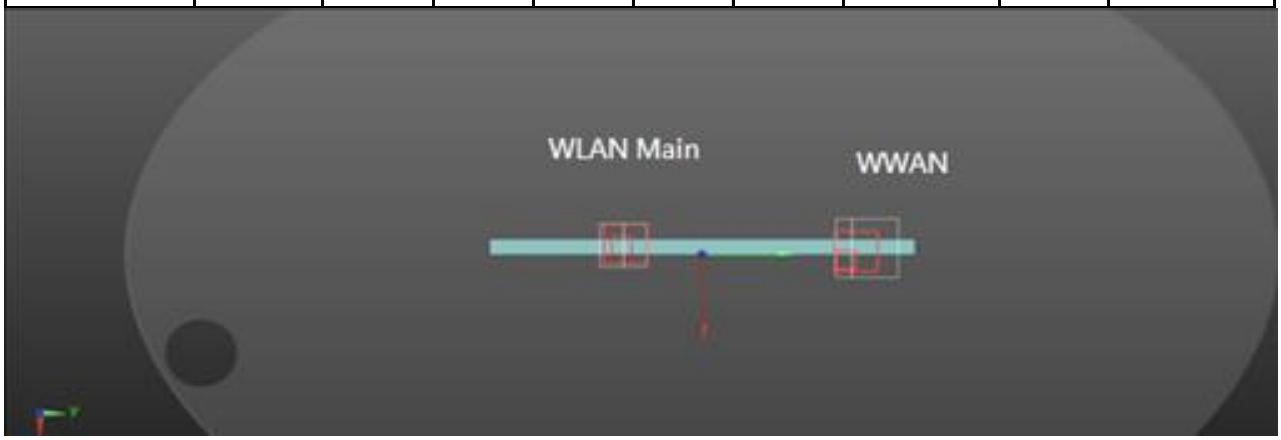
WWAN + WLAN Main

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WWAN	Back side	1.404	-11.25	-9.89	-0.22	2.48	120.8	0.032	SPLSR<0.04, Not required
WLAN Main		1.076	-12.90	2.08	-0.20				



Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WWAN	Left side	1.183	-0.19	6.80	-0.37	2.342	109.6	0.033	SPLSR<0.04, Not required
WLAN Main		1.159	-0.50	-4.16	-0.32				



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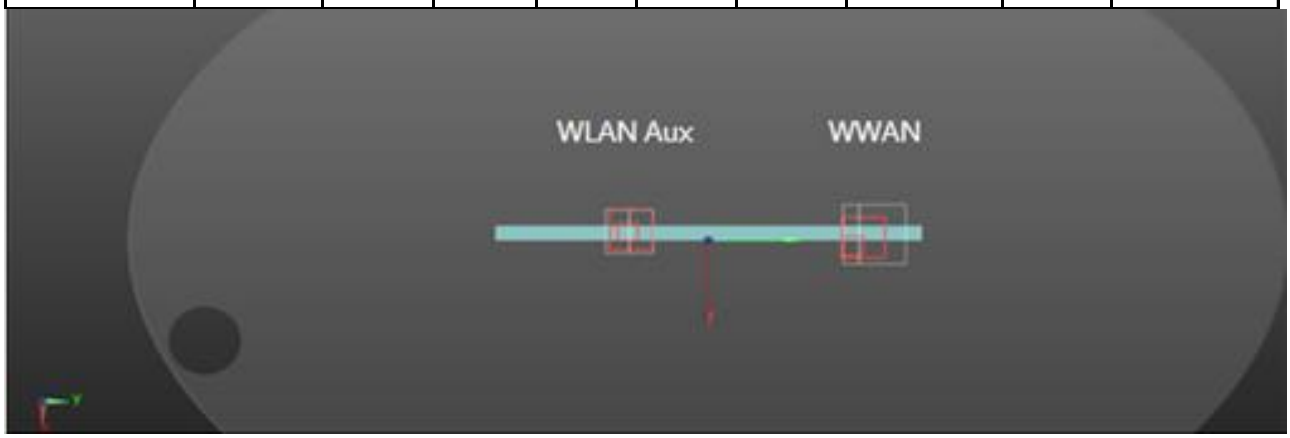
WWAN + WLAN Aux

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WWAN	Back side	1.404	-11.25	-9.89	-0.22	2.585	211.1	0.020	SPLSR<0.04, Not required
WLAN Aux		1.181	-1.10	8.62	-0.32				

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WWAN	Left side	1.183	-0.19	6.80	-0.37	1.1834	109.6	0.012	SPLSR<0.04, Not required
WLAN Aux		0.0004	-0.50	-4.16	-0.32				



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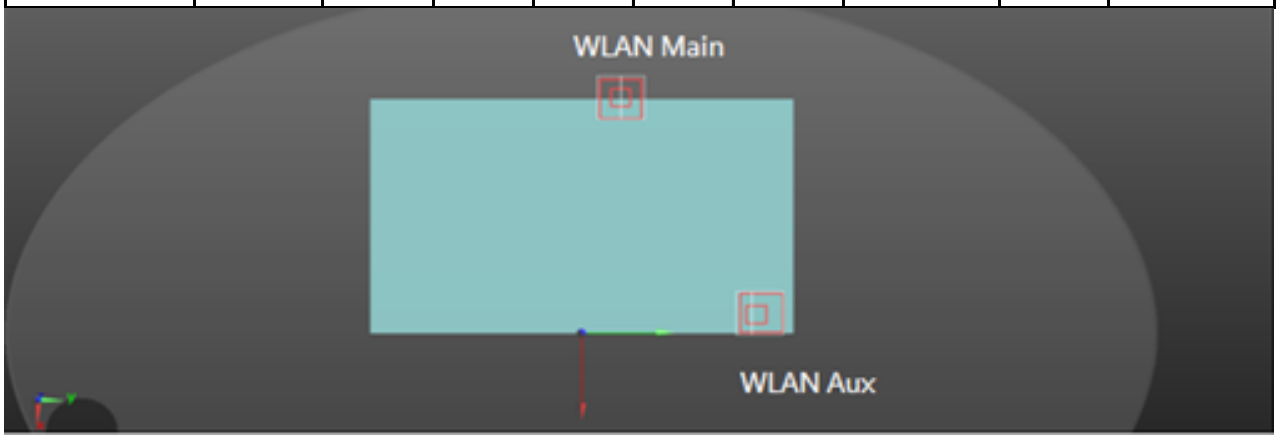
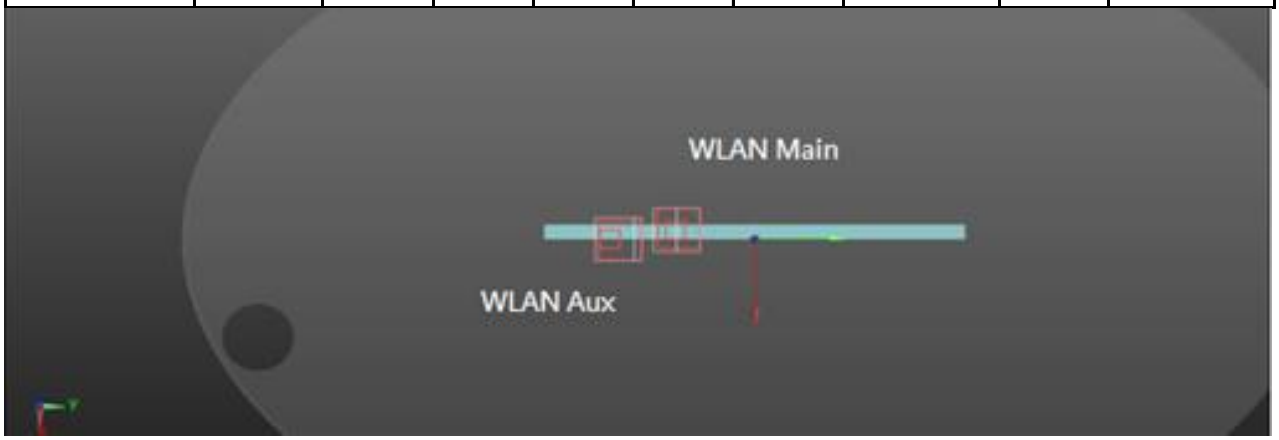
WLAN Main + WLAN Aux

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WLAN Main	Back side	1.076	-12.90	2.08	-0.20	2.257	134.9	0.025	SPLSR<0.04, Not required
WLAN Aux		1.181	0.10	8.62	-0.32				



Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WLAN Main	Left side	1.159	-0.50	-4.16	-0.32	1.1594	32.6	0.038	SPLSR<0.04, Not required
WLAN Aux		0.0004	-0.16	-7.40	-0.39				



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LTE FDD Band IV + 5 GHz WLAN MIMO

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
7	LTE B4	Back side	0	1.320	1.076	1.181	**3.577**	Analyzed as below
		Top side	0	0.782	0.029	0.036	0.847	ΣSAR<1.6, Not required
		Bottom side	0	0.144	0.006	0.611	0.761	ΣSAR<1.6, Not required
		Left side	0	0.573	1.159	0.0004	**1.7324**	Analyzed as below
		Right side	0	0.213	0.001	0.573	0.787	ΣSAR<1.6, Not required

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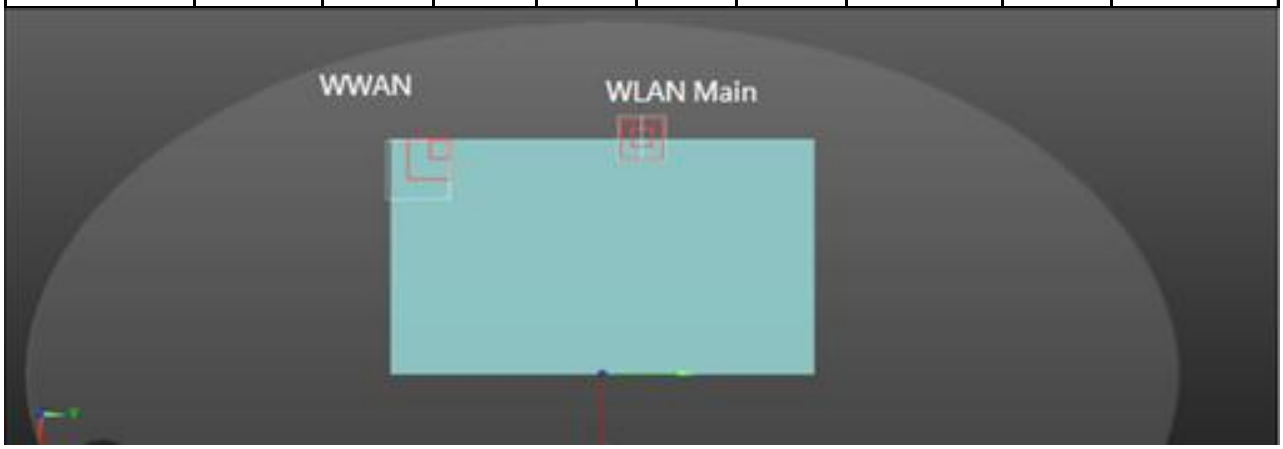
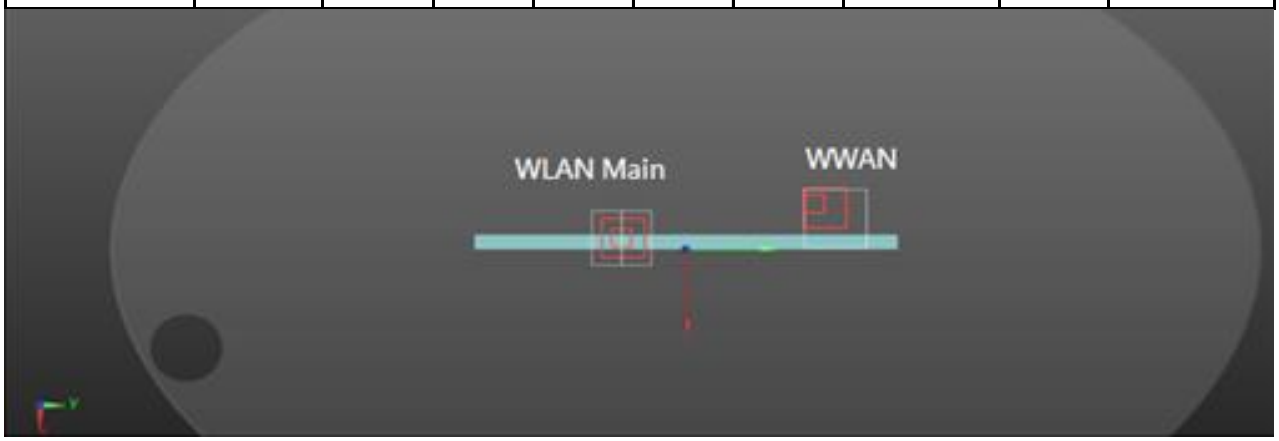
WWAN + WLAN Main

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WWAN	Back side	1.320	-12.75	-7.80	-0.20	2.396	98.8	0.038	SPLSR<0.04, Not required
WLAN Main		1.076	-12.90	2.08	-0.20				



Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WWAN	Left side	0.573	-2.50	6.05	0.99	1.732	96.1	0.024	SPLSR<0.04, Not required
WLAN Main		1.159	-0.64	-3.28	-0.38				



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WWAN + WLAN Aux

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WWAN	Back side	1.32	12.75	-7.80	-0.20	2.501	213.8	0.018	SPLSR<0.04, Not required
WLAN Aux		1.181	-1.28	10.24	-0.36				

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WWAN	Left side	0.573	-2.50	6.05	0.99	0.5734	137.2	0.003	SPLSR<0.04, Not required
WLAN Aux		0.0004	-0.16	-7.40	-0.39				

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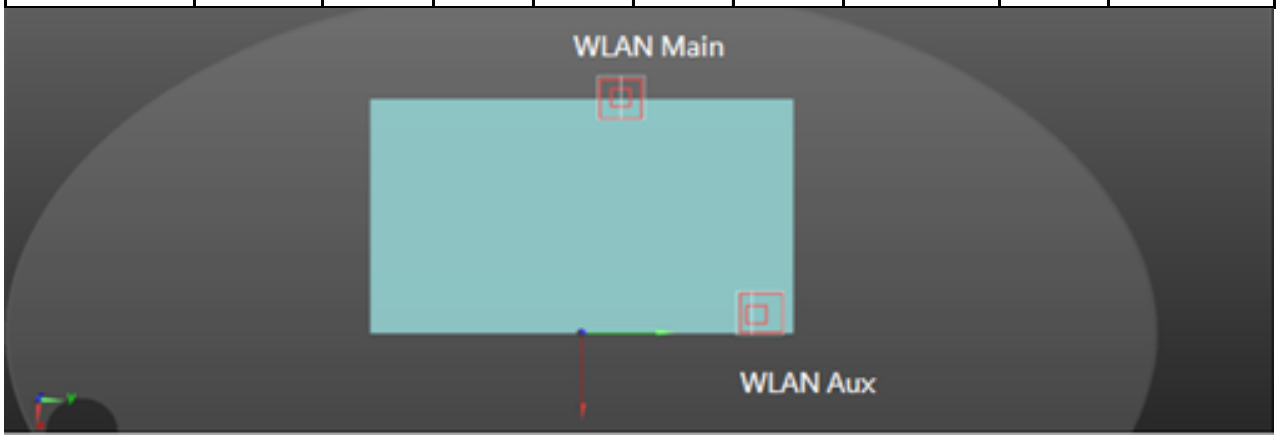
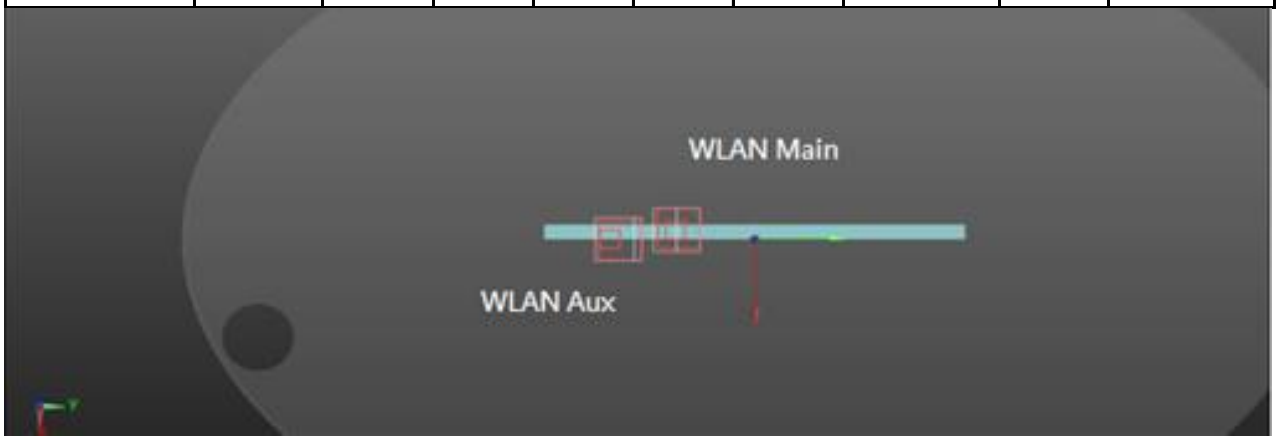
WLAN Main + WLAN Aux

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WLAN Main	Back side	1.076	-12.90	2.08	-0.20	2.257	134.9	0.025	SPLSR<0.04, Not required
WLAN Aux		1.181	0.10	8.62	-0.32				



Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WLAN Main	Left side	1.159	-0.50	-4.16	-0.32	1.1594	32.6	0.038	SPLSR<0.04, Not required
WLAN Aux		0.0004	-0.16	-7.40	-0.39				



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LTE FDD Band V + 5 GHz WLAN MIMO

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
8	LTE B5	Back side	0	0.991	1.076	1.181	**3.248**	Analyzed as below
		Top side	0	0.748	0.029	0.036	0.813	ΣSAR<1.6, Not required
		Bottom side	0	0.036	0.006	0.611	0.653	ΣSAR<1.6, Not required
		Left side	0	0.435	1.159	0.0004	1.5944	ΣSAR<1.6, Not required
		Right side	0	0.148	0.001	0.573	0.722	ΣSAR<1.6, Not required

WWAN + WLAN Main

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WWAN	Back side	0.991	-9.10	-8.25	-0.28	2.067	110.1	0.027	SPLSR<0.04, Not required
WLAN Main		1.076	-12.90	2.08	-0.20				

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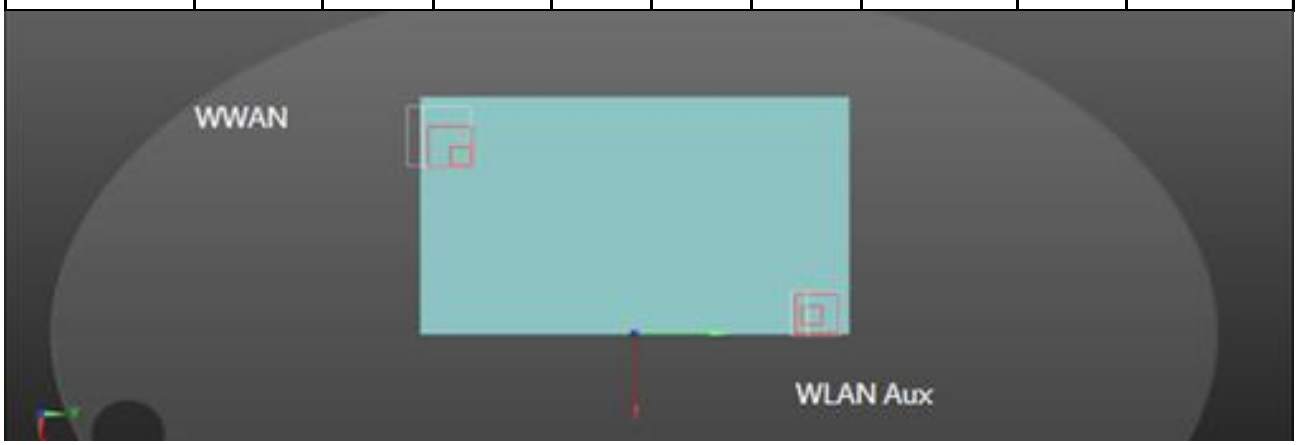
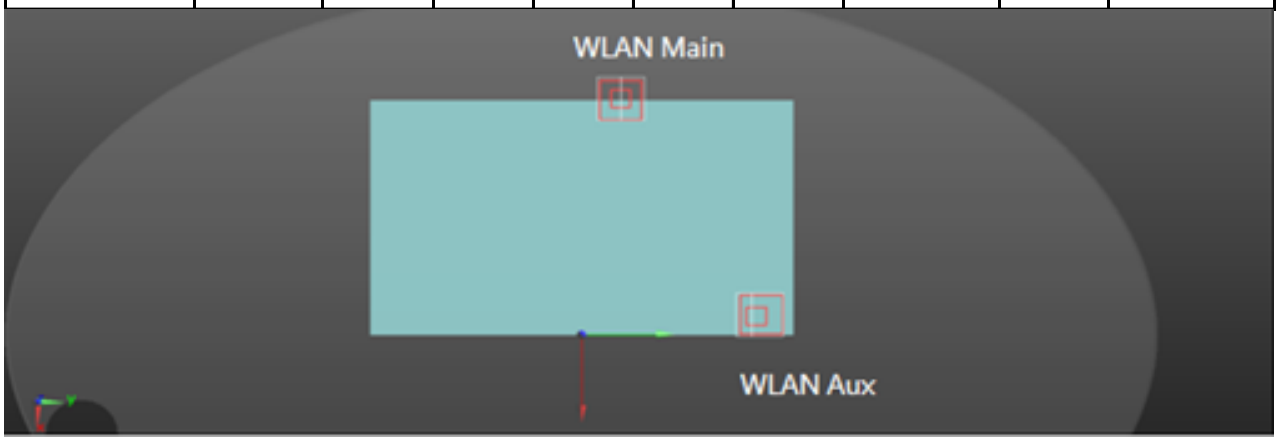
WWAN + WLAN Aux

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WWAN	Back side	0.991	-9.10	-8.25	-0.28	2.172	186.7	0.017	SPLSR<0.04, Not required
WLAN Aux		1.181	-110.00	8.62	-0.32				



WLAN Main + WLAN Aux

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WLAN Main	Back side	1.076	-12.90	2.08	-0.20	2.257	134.9	0.025	SPLSR<0.04, Not required
WLAN Aux		1.181	0.10	8.62	-0.32				



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LTE FDD Band XIII + 5 GHz WLAN MIMO

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
9	LTE B13	Back side	0	0.975	1.076	1.181	**3.232**	Analyzed as below
		Top side	0	0.691	0.029	0.036	0.756	ΣSAR<1.6, Not required
		Bottom side	0	0.032	0.006	0.611	0.649	ΣSAR<1.6, Not required
		Left side	0	0.331	1.159	0.0004	1.4904	ΣSAR<1.6, Not required
		Right side	0	0.076	0.001	0.573	0.65	ΣSAR<1.6, Not required

WWAN + WLAN Main

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WWAN	Back side	0.975	-10.06	-10.66	-0.24	2.051	130.5	0.023	SPLSR<0.04, Not required
WLAN Main		1.076	-12.90	2.08	-0.20				

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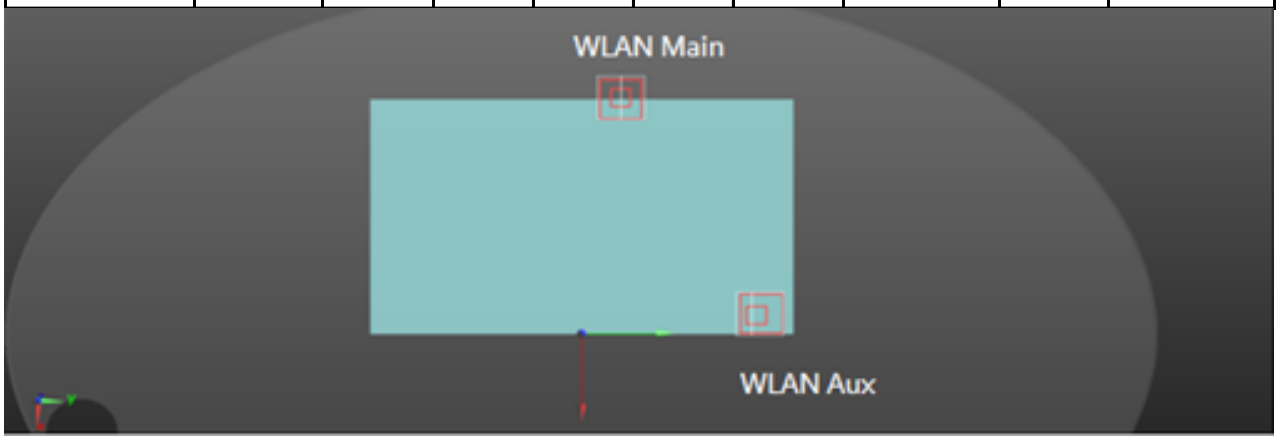
WWAN + WLAN Aux

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WWAN	Back side	0.975	-10.06	-10.66	-0.24	2.156	212.6	0.015	SPLSR<0.04, Not required
WLAN Aux		1.181	-1.10	8.62	-0.32				

WLAN Main + WLAN Aux

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WLAN Main	Back side	1.076	-12.90	2.08	-0.20	2.257	134.9	0.025	SPLSR<0.04, Not required
WLAN Aux		1.181	0.10	8.62	-0.32				



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LTE FDD Band XVII + 5 GHz WLAN MIMO

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
10	LTE B17	Back side	0	1.318	1.076	1.181	**3.575**	Analyzed as below
		Top side	0	1.215	0.029	0.036	1.28	ΣSAR<1.6, Not required
		Bottom side	0	0.027	0.006	0.611	0.644	ΣSAR<1.6, Not required
		Left side	0	0.219	1.159	0.0004	1.3784	ΣSAR<1.6, Not required
		Right side	0	0.066	0.001	0.573	0.64	ΣSAR<1.6, Not required

WWAN + WLAN Main

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WWAN	Back side	1.318	-9.10	-10.66	-0.27	2.394	132.9	0.028	SPLSR<0.04, Not required
WLAN Main		1.076	-12.90	2.08	-0.20				

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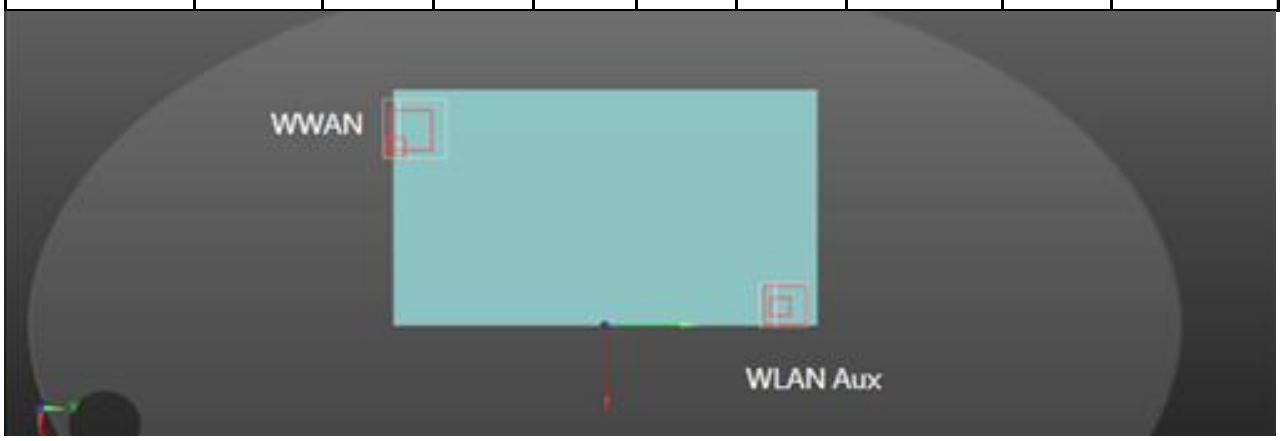
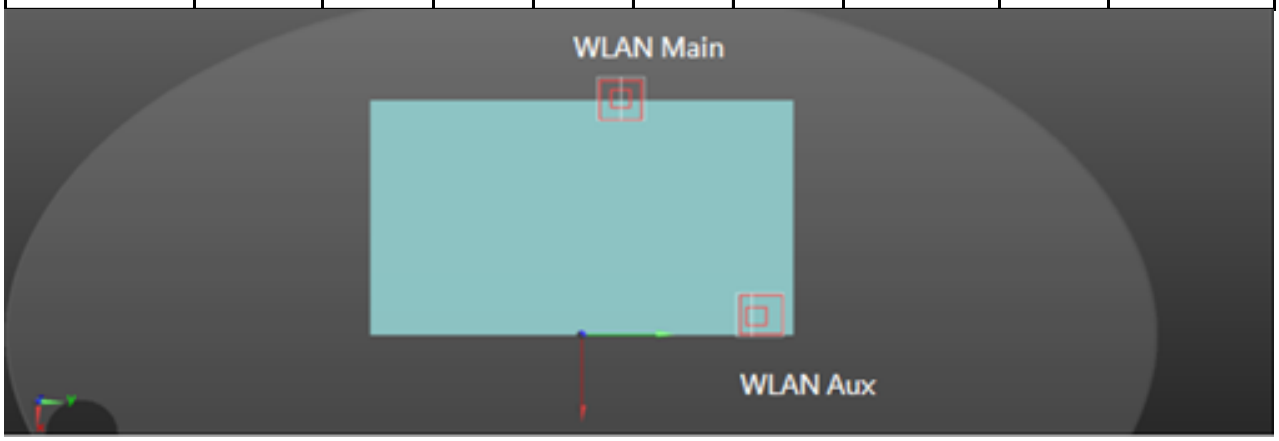
WWAN + WLAN Aux

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WWAN	Back side	1.318	-9.10	-10.66	-0.27	2.499	208.7	0.019	SPLSR<0.04, Not required
WLAN Aux		1.181	-1.10	8.62	-0.32				



WLAN Main + WLAN Aux

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WLAN Main	Back side	1.076	-12.90	2.08	-0.20	2.257	134.9	0.025	SPLSR<0.04, Not required
WLAN Aux		1.181	0.10	8.62	-0.32				



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LTE FDD Band II + 2.4 GHz WLAN Main + BT

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	BT	SAR Sum	SPLSR
11	LTE B2	Back side	0	1.404	0.794	0.0493	**2.2473**	Analyzed as below
		Top side	0	1.261	0.033	0.0015	1.2955	ΣSAR<1.6, Not required
		Bottom side	0	0.088	0.055	0.0347	0.1777	ΣSAR<1.6, Not required
		Left side	0	1.183	1.214	0.00339	**2.40039**	Analyzed as below
		Right side	0	0.130	0.011	0.0143	0.1553	ΣSAR<1.6, Not required

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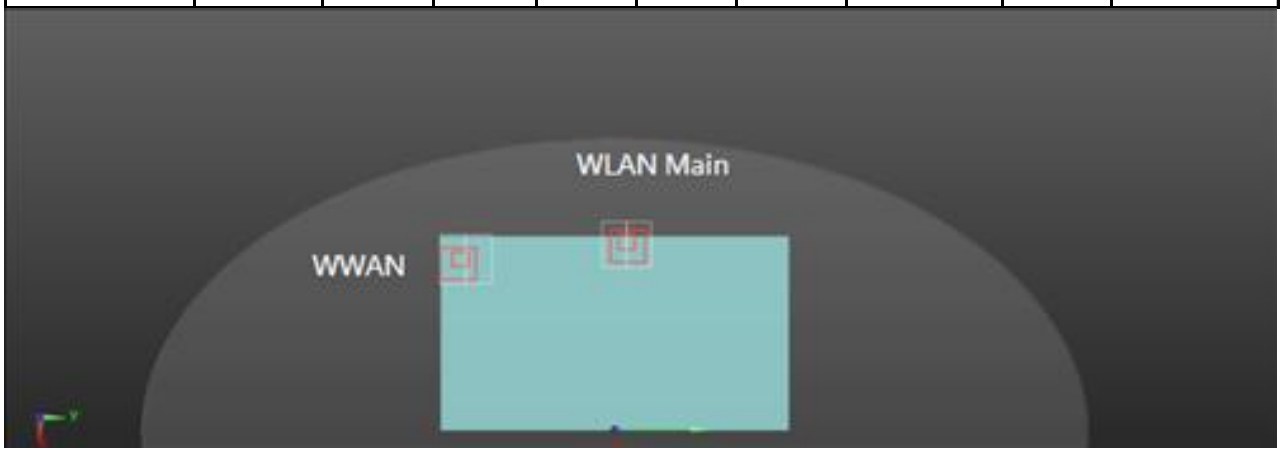
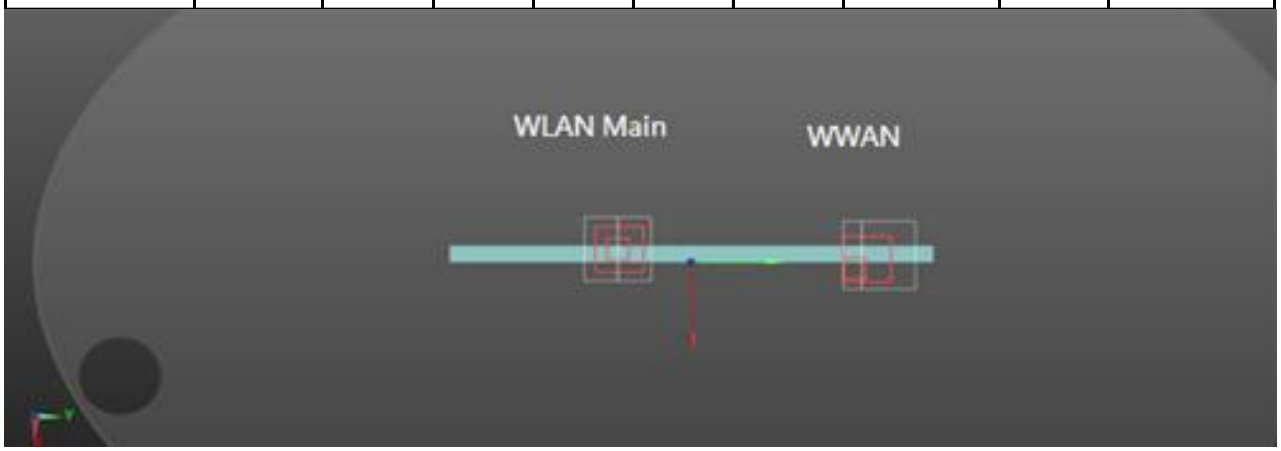
WWAN + WLAN Main

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WWAN	Back side	1.404	-11.25	-9.89	-0.22	2.198	106.8	0.031	SPLSR<0.04, Not required
WLAN Main		0.794	-12.44	0.72	-0.25				



Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WWAN	Left side	1.183	-0.19	6.80	-0.37	2.397	100.9	0.037	SPLSR<0.04, Not required
WLAN Main		1.214	-0.64	-3.28	-0.38				



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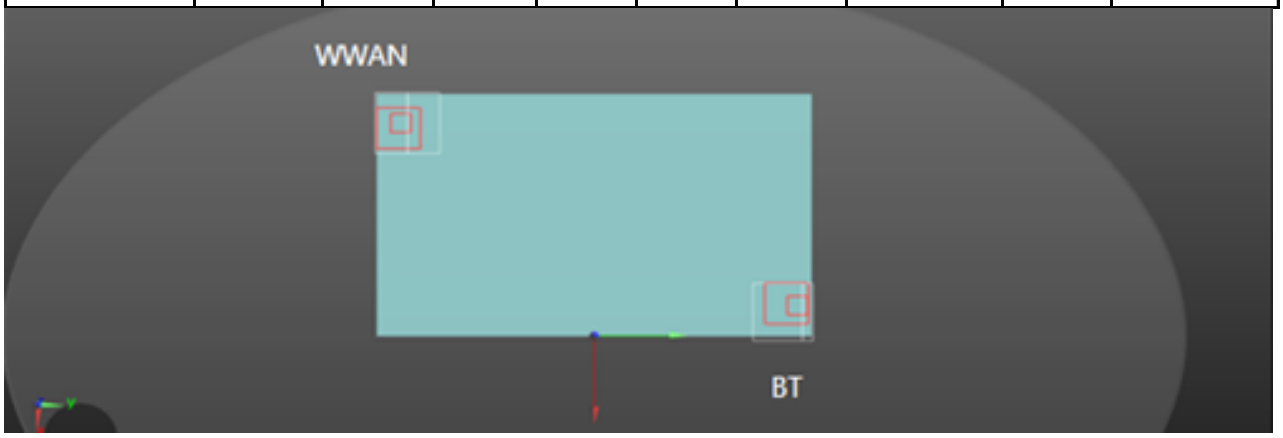
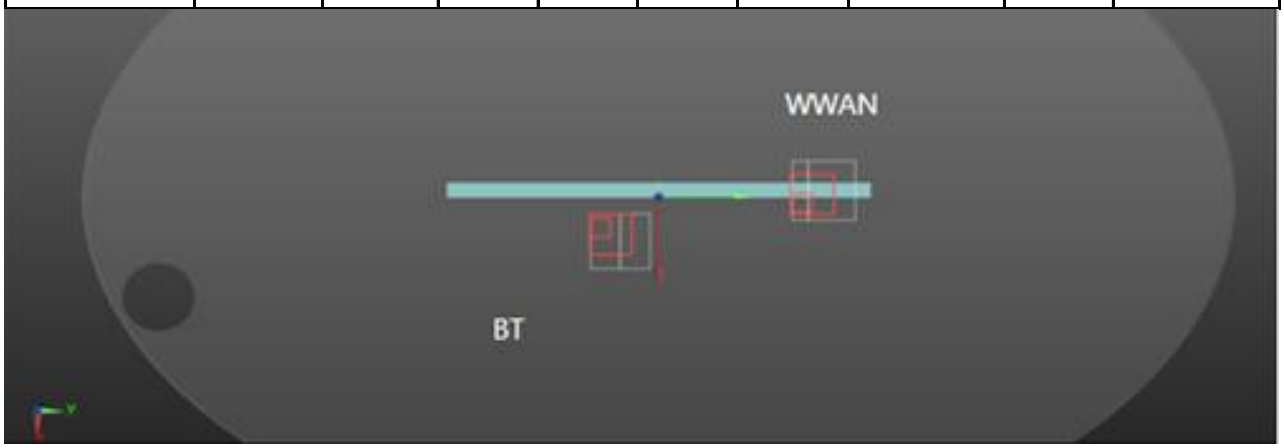
WWAN + BT

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WWAN	Back side	1.404	-11.25	-9.89	-0.22	1.4533	222.7	0.008	SPLSR<0.04, Not required
BT		0.0493	-1.56	10.16	-0.35				



Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WWAN	Left side	1.183	-0.19	6.80	-0.37	1.18639	98.4	0.013	SPLSR<0.04, Not required
BT		0.00339	3.88	-2.16	-0.34				



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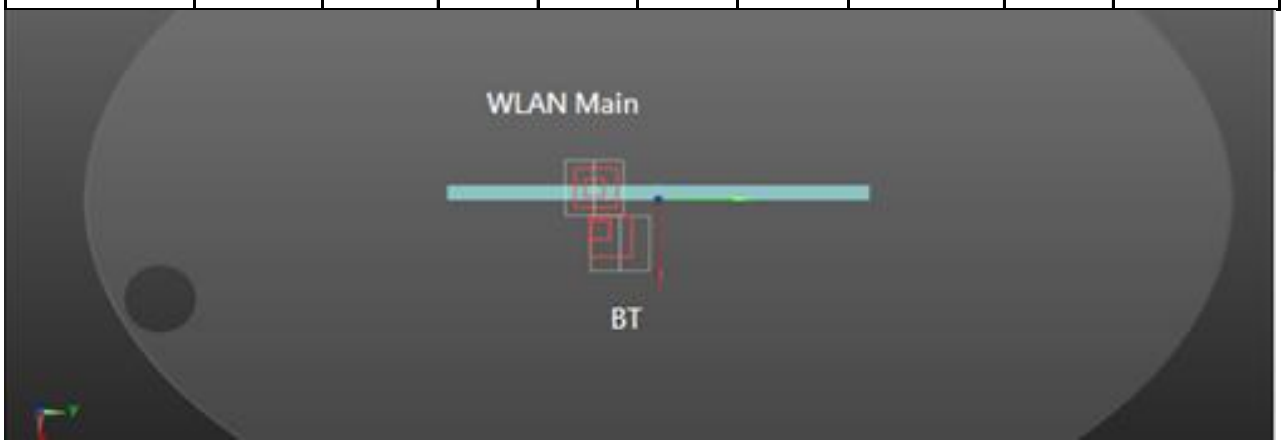
WLAN Main + BT

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WLAN Main	Back side	0.794	-1.56	10.16	-0.35	0.8433	144	0.005	SPLSR<0.04, Not required
BT		0.0493	-12.44	0.72	-0.25				

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WLAN Main	Left side	1.214	-0.64	3.28	-0.38	1.21739	46.6	0.029	SPLSR<0.04, Not required
BT		0.00339	3.88	-2.16	-0.34				



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LTE FDD Band IV + 2.4 GHz WLAN Main + BT

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	BT	SAR Sum	SPLSR
12	LTE B4	Back side	0	1.320	0.794	0.0493	**2.1633**	Analyzed as below
		Top side	0	0.782	0.033	0.0015	0.8165	ΣSAR<1.6, Not required
		Bottom side	0	0.144	0.055	0.0347	0.2337	ΣSAR<1.6, Not required
		Left side	0	0.573	1.214	0.00339	**1.79039**	Analyzed as below
		Right side	0	0.213	0.011	0.0143	0.2383	ΣSAR<1.6, Not required

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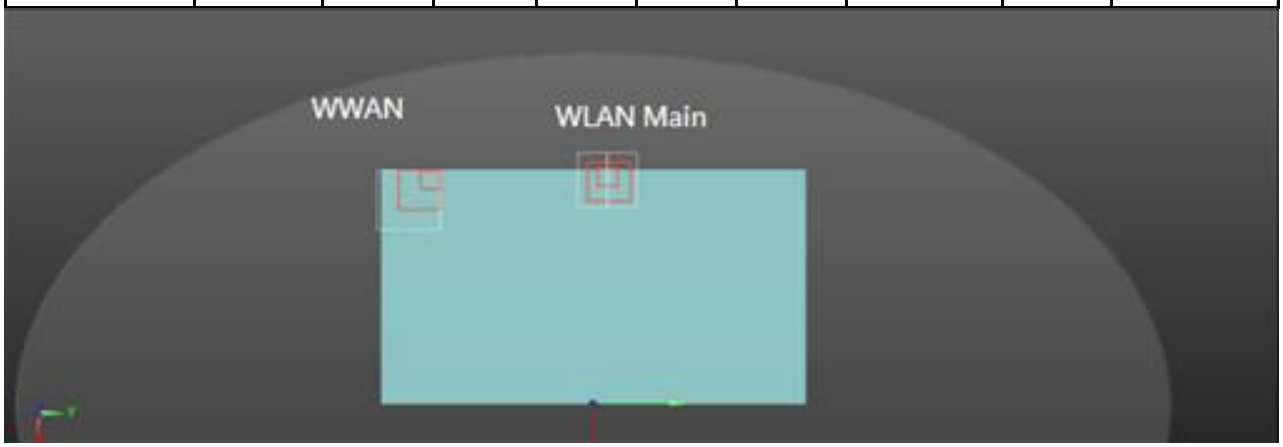
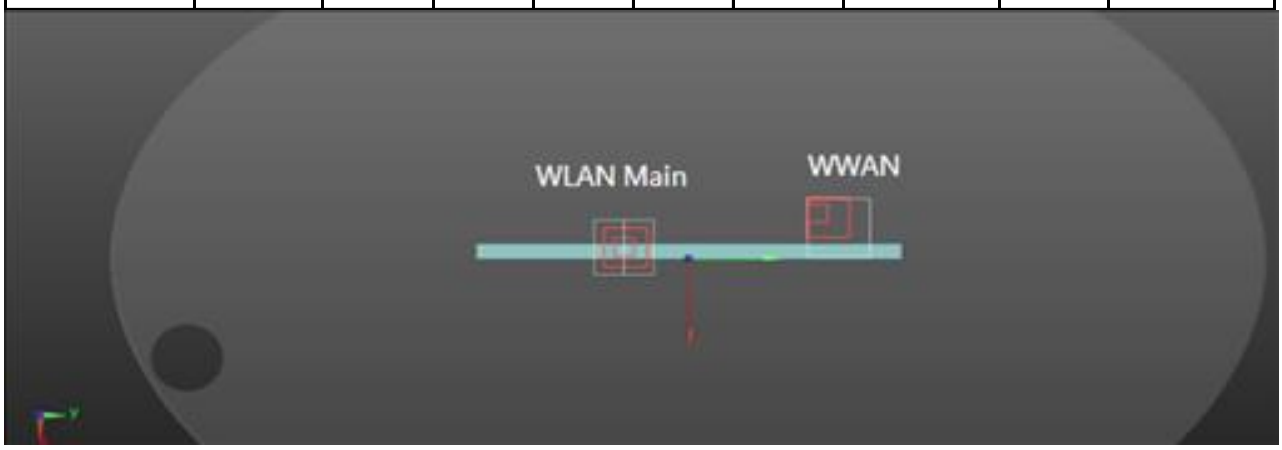
WWAN + WLAN Main

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WWAN	Back side	1.320	-12.75	-7.80	-0.20	2.114	85.3	0.036	SPLSR<0.04, Not required
WLAN Main		0.794	-12.44	0.72	-0.25				



Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WWAN	Left side	0.573	-2.50	6.05	0.99	1.787	96.1	0.025	SPLSR<0.04, Not required
WLAN Main		1.214	-0.64	-3.28	-0.38				



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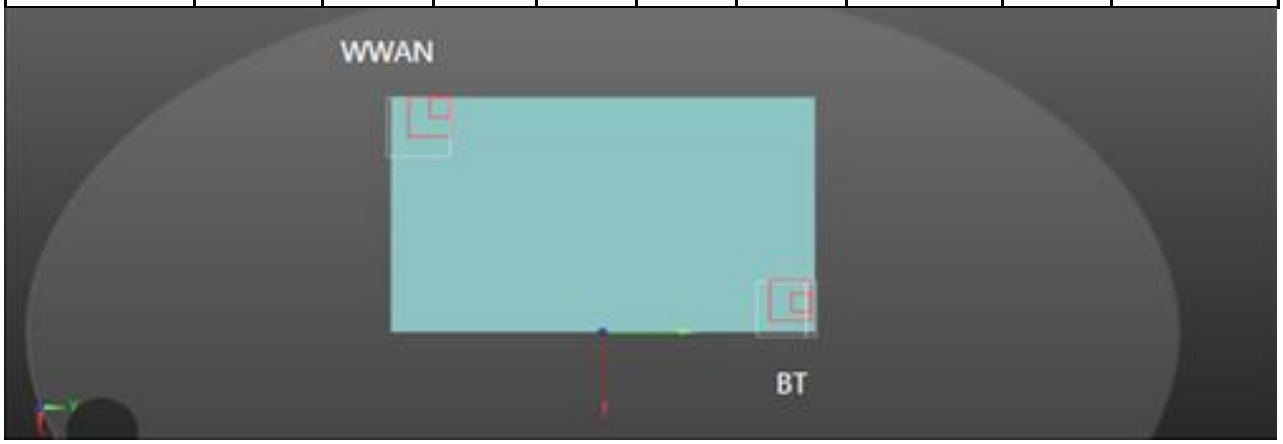
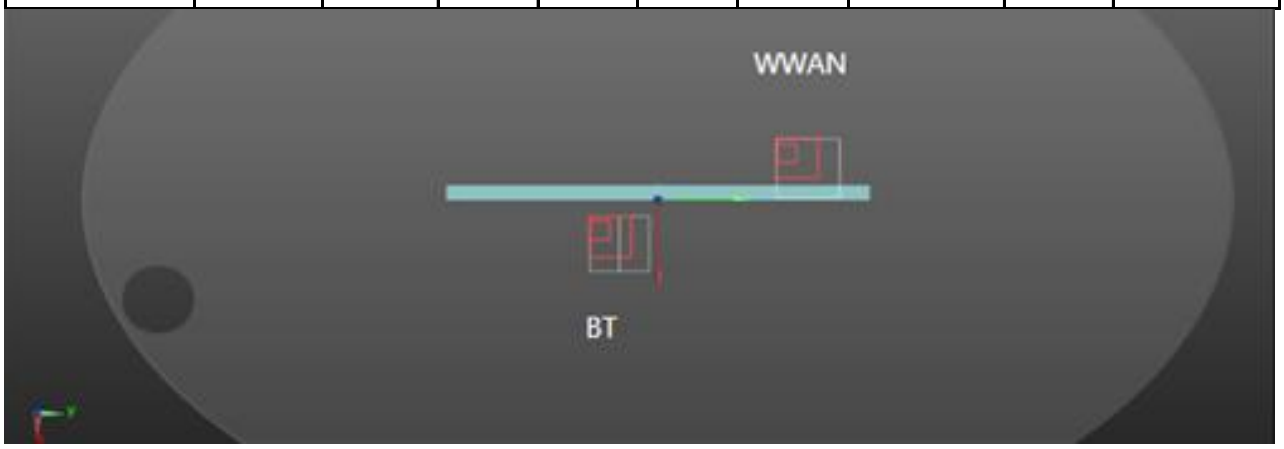
WWAN + BT

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WWAN	Back side	1.320	-12.75	-7.80	-0.20	1.3693	211.6	0.008	SPLSR<0.04, Not required
BT		0.0493	-1.56	10.16	-0.35				



Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WWAN	Left side	0.573	-2.50	6.05	0.99	0.57639	104.8	0.004	SPLSR<0.04, Not required
BT		0.00339	3.88	-2.16	-0.34				



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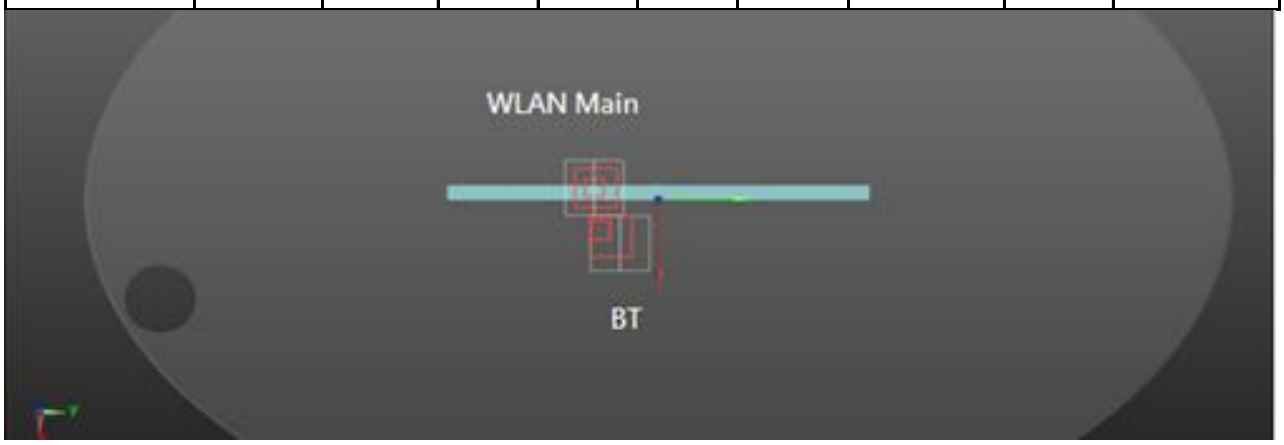
WLAN Main + BT

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WLAN Main	Back side	0.794	-1.56	10.16	-0.35	0.8433	144	0.005	SPLSR<0.04, Not required
BT		0.0493	-12.44	0.72	-0.25				

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WLAN Main	Left side	1.214	-0.64	3.28	-0.38	1.21739	46.6	0.029	SPLSR<0.04, Not required
BT		0.00339	3.88	-2.16	-0.34				



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LTE FDD Band V + 2.4 GHz WLAN Main + BT

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	BT	SAR Sum	SPLSR
13	LTE B5	Back side	0	0.991	0.794	0.0493	**1.8343**	Analyzed as below
		Top side	0	0.748	0.033	0.0015	0.7825	ΣSAR<1.6, Not required
		Bottom side	0	0.036	0.055	0.0347	0.1257	ΣSAR<1.6, Not required
		Left side	0	0.435	1.214	0.00339	**1.65239**	Analyzed as below
		Right side	0	0.148	0.011	0.0143	0.1733	ΣSAR<1.6, Not required

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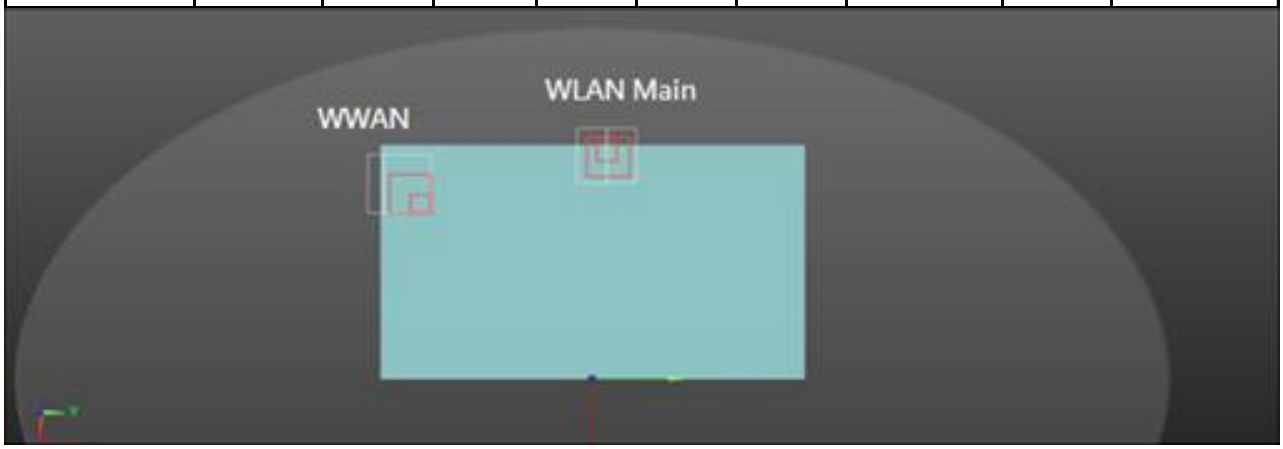
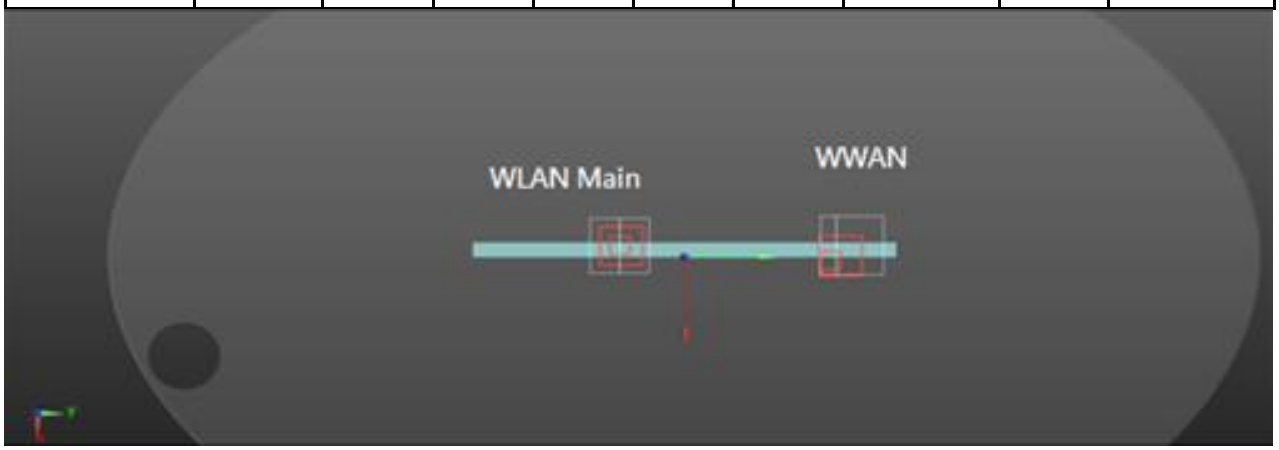
WWAN + WLAN Main

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WWAN	Back side	0.991	-9.10	-8.25	-0.28	1.785	95.7	0.025	SPLSR<0.04, Not required
WLAN Main		0.794	-12.44	0.72	-0.25				



Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WWAN	Left side	0.435	0.15	6.95	2.99	1.649	108	0.020	SPLSR<0.04, Not required
WLAN Main		1.214	-0.64	-3.28	-0.38				



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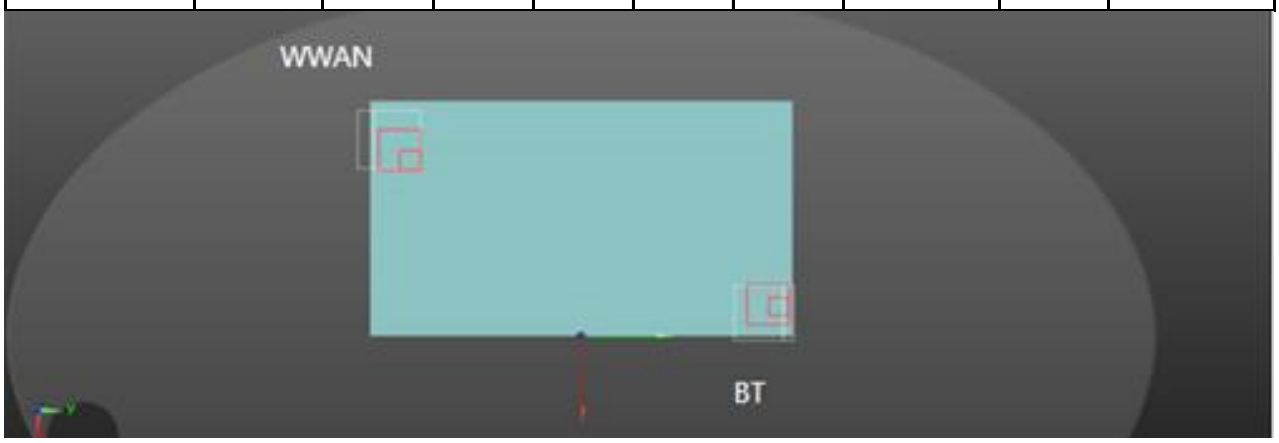
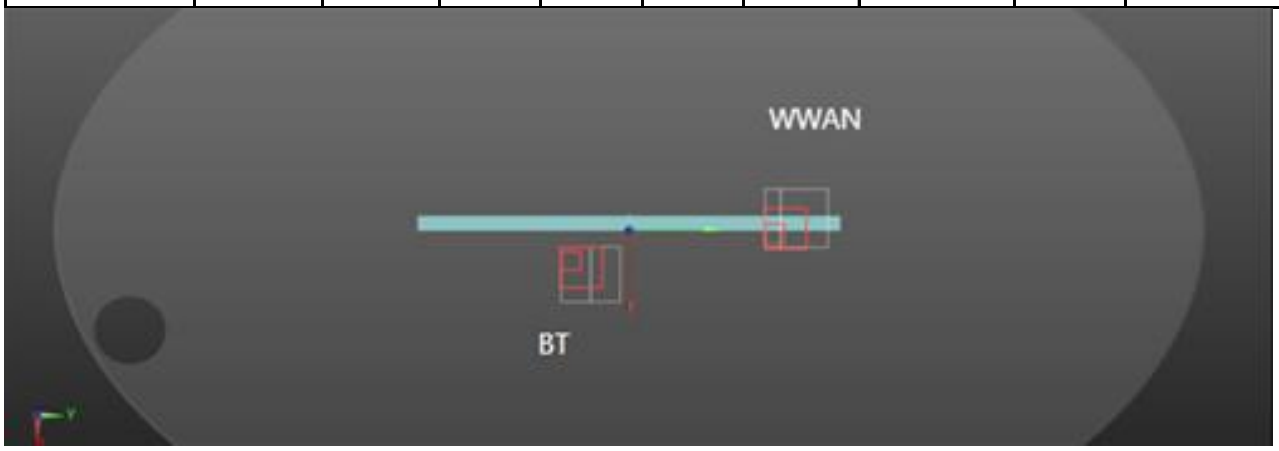
WWAN + BT

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WWAN	Back side	0.991	-9.10	-8.25	-0.28	1.0403	198.9	0.005	SPLSR<0.04, Not required
BT		0.0493	-1.56	10.16	-0.35				



Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WWAN	Left side	0.435	3.88	-2.16	-0.34	0.43839	103.9	0.003	SPLSR<0.04, Not required
BT		0.00339	0.15	6.95	2.99				



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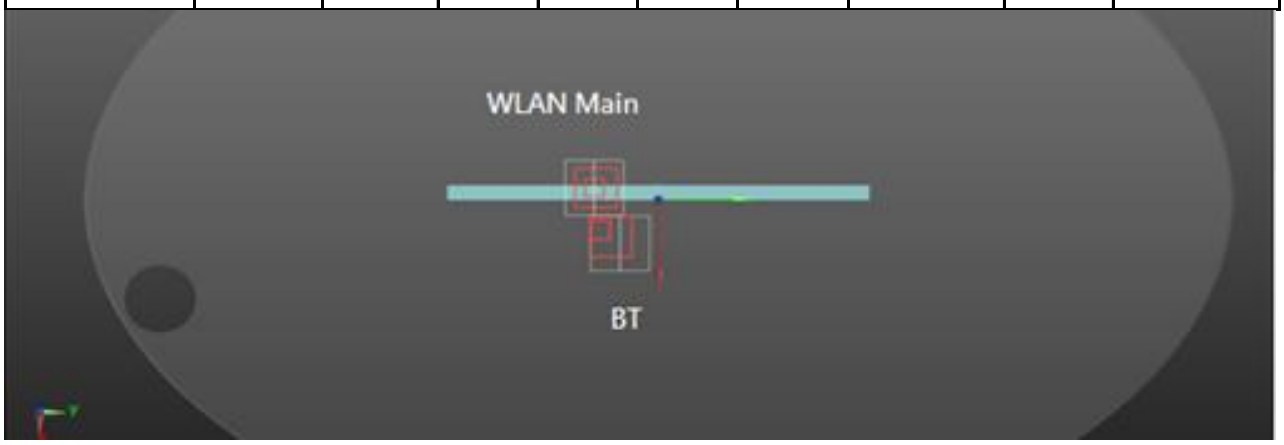
WLAN Main + BT

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WLAN Main	Back side	0.794	-1.56	10.16	-0.35	0.8433	144	0.005	SPLSR<0.04, Not required
BT		0.0493	-12.44	0.72	-0.25				

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WLAN Main	Left side	1.214	-0.64	3.28	-0.38	1.21739	46.6	0.029	SPLSR<0.04, Not required
BT		0.00339	3.88	-2.16	-0.34				



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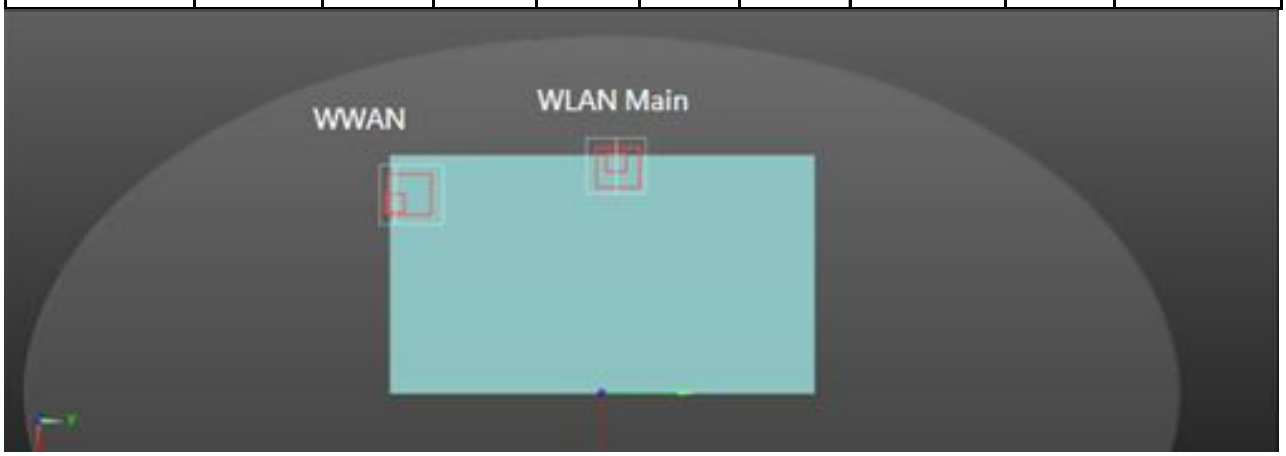
LTE FDD Band XIII + 2.4 GHz WLAN Main + BT

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	BT	SAR Sum	SPLSR
14	LTE B13	Back side	0	0.975	0.794	0.0493	**1.8183**	Analyzed as below
		Top side	0	0.691	0.033	0.0015	0.7255	ΣSAR<1.6, Not required
		Bottom side	0	0.032	0.055	0.0347	0.1217	ΣSAR<1.6, Not required
		Left side	0	0.331	1.214	0.00339	1.54839	ΣSAR<1.6, Not required
		Right side	0	0.076	0.011	0.0143	0.1013	ΣSAR<1.6, Not required

WWAN + WLAN Main

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WWAN	Back side	0.975	-10.06	-10.66	-0.24	1.769	116.3	0.020	SPLSR<0.04, Not required
WLAN Main		0.794	-12.44	0.72	-0.25				



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WWAN + BT

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WWAN	Back side	0.975	-10.06	-10.66	-0.24	1.0243	224.9	0.005	SPLSR<0.04, Not required
BT		0.0493	-1.56	10.16	-0.35				

WLAN Main + BT

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WLAN Main	Back side	0.794	-1.56	10.16	-0.35	0.8433	144	0.005	SPLSR<0.04, Not required
BT		0.0493	-12.44	0.72	-0.25				

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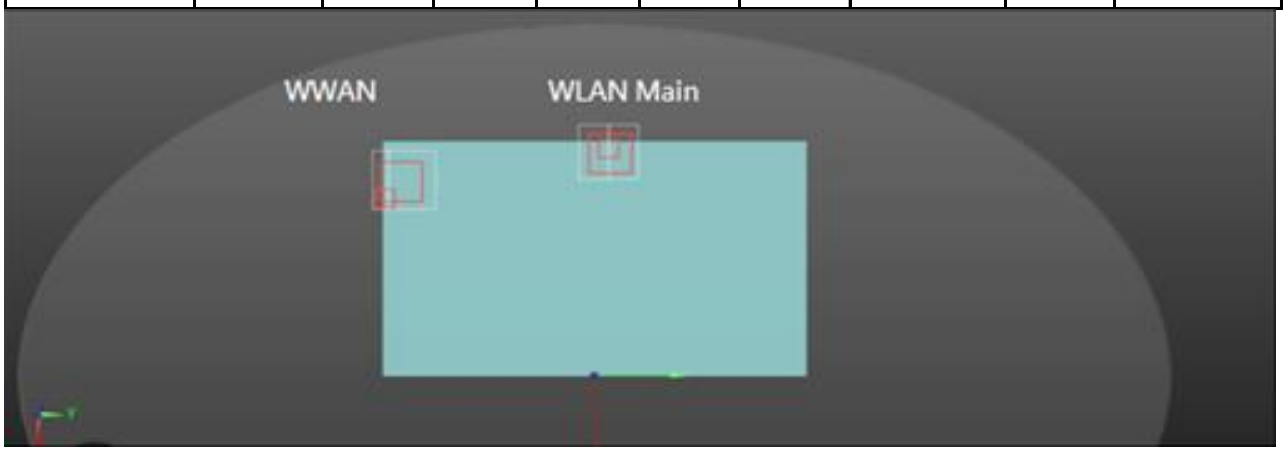
LTE FDD Band XVII + 2.4 GHz WLAN Main + BT

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	BT	SAR Sum	SPLSR
15	LTE B17	Back side	0	1.318	0.794	0.0493	**2.1613**	Analyzed as below
		Top side	0	1.215	0.033	0.0015	1.2495	ΣSAR<1.6, Not required
		Bottom side	0	0.027	0.055	0.0347	0.1167	ΣSAR<1.6, Not required
		Left side	0	0.219	1.214	0.00339	1.43639	ΣSAR<1.6, Not required
		Right side	0	0.066	0.011	0.0143	0.0913	ΣSAR<1.6, Not required

WWAN + WLAN Main

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WWAN	Back side	1.318	-9.10	-10.66	-0.27	2.112	118.6	0.026	SPLSR<0.04, Not required
WLAN Main		0.794	-12.44	0.72	-0.25				



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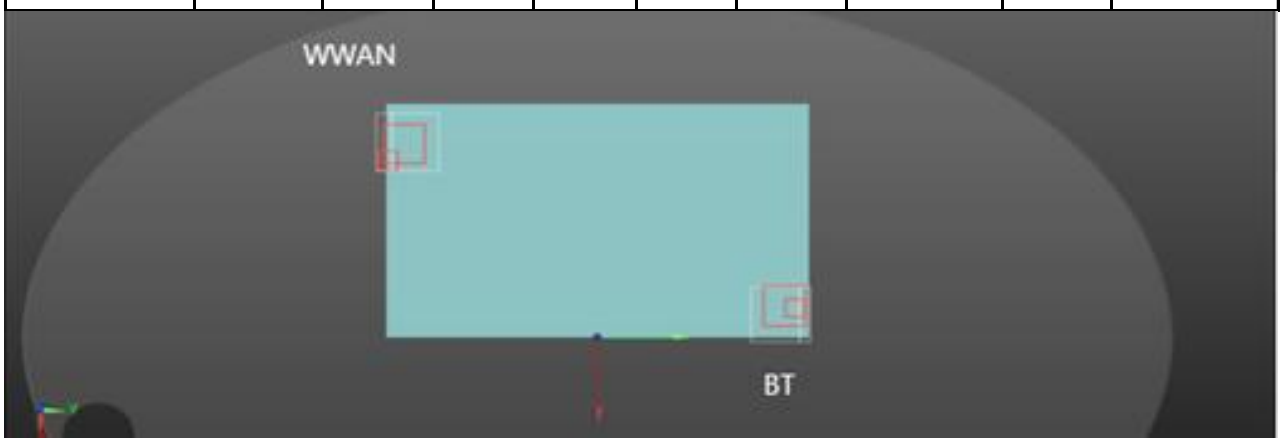
WWAN + BT

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WWAN	Back side	1.318	-9.10	-10.66	-0.27	1.3673	221.4	0.007	SPLSR<0.04, Not required
BT		0.0493	-1.56	10.16	-0.35				



WLAN Main + BT

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WLAN Main	Back side	0.794	-1.56	10.16	-0.35	0.8433	144	0.005	SPLSR<0.04, Not required
BT		0.0493	-12.44	0.72	-0.25				

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LTE FDD Band II + 5 GHz WLAN Main + BT

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	BT	SAR Sum	SPLSR
16	LTE B2	Back side	0	1.404	1.076	0.0493	**2.5293**	Analyzed as below
		Top side	0	1.261	0.029	0.0015	1.2915	ΣSAR<1.6, Not required
		Bottom side	0	0.088	0.006	0.0347	0.1287	ΣSAR<1.6, Not required
		Left side	0	1.183	1.159	0.00339	**2.34539**	Analyzed as below
		Right side	0	0.130	0.001	0.0143	0.1453	ΣSAR<1.6, Not required

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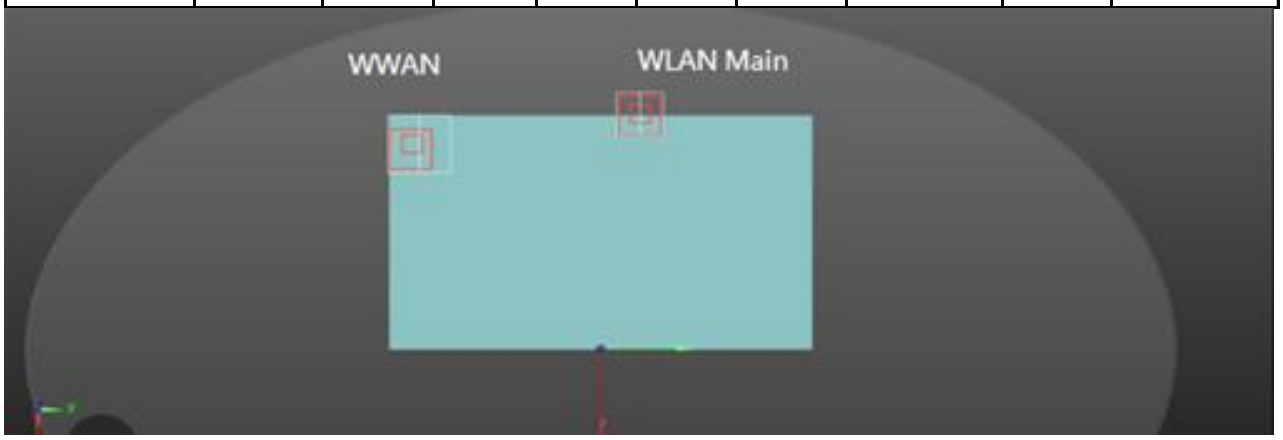
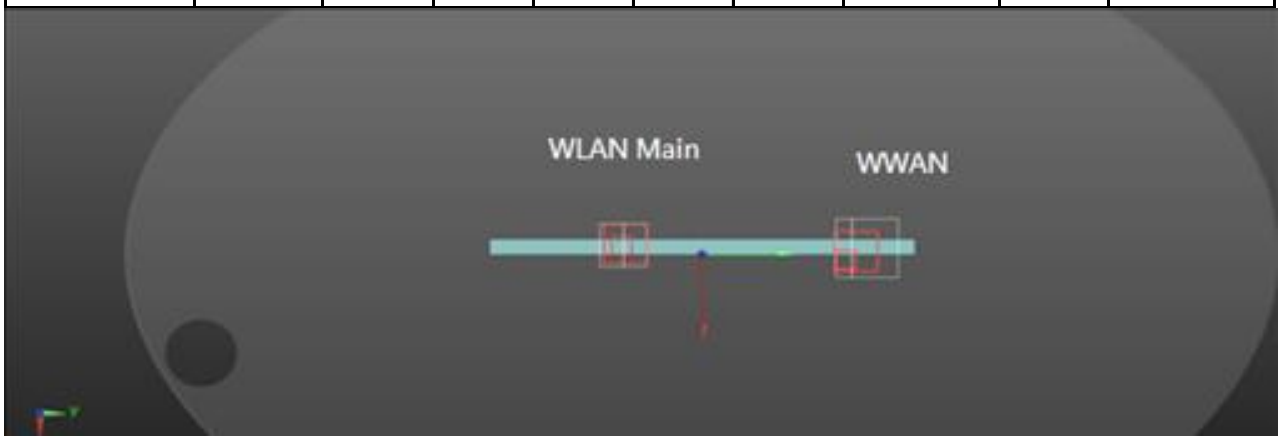
WWAN + WLAN Main

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WWAN	Back side	1.404	-11.25	-9.89	-0.22	2.48	120.8	0.032	SPLSR<0.04, Not required
WLAN Main		1.076	-12.90	2.08	-0.20				



Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WWAN	Left side	1.183	-0.19	6.80	-0.37	2.342	109.6	0.033	SPLSR<0.04, Not required
WLAN Main		1.159	-0.50	-4.16	-0.32				



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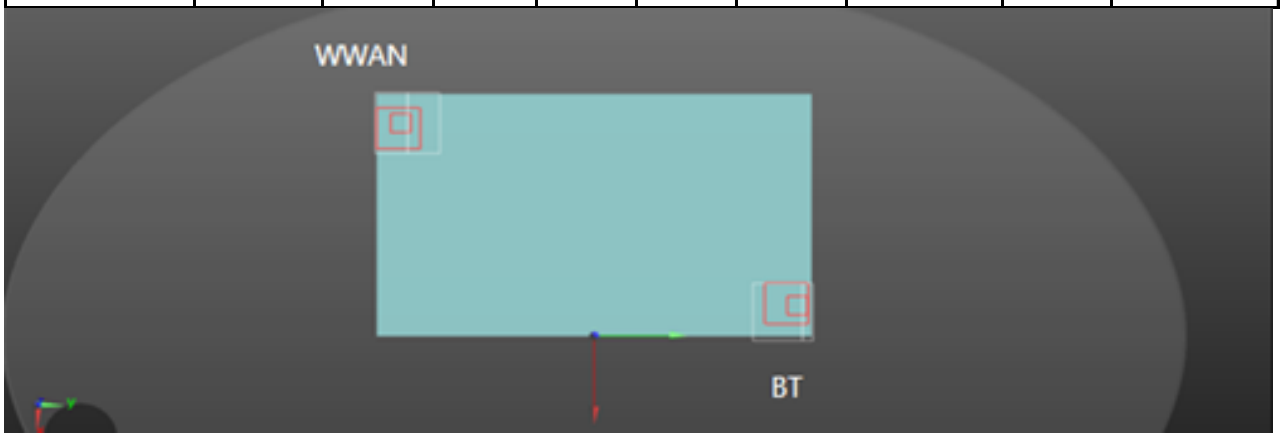
WWAN + BT

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WWAN	Back side	1.404	-11.25	-9.89	-0.22	1.4533	222.7	0.008	SPLSR<0.04, Not required
BT		0.0493	-1.56	10.16	-0.35				



Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WWAN	Left side	1.183	-0.19	6.80	-0.37	1.18639	98.4	0.013	SPLSR<0.04, Not required
BT		0.00339	3.88	-2.16	-0.34				

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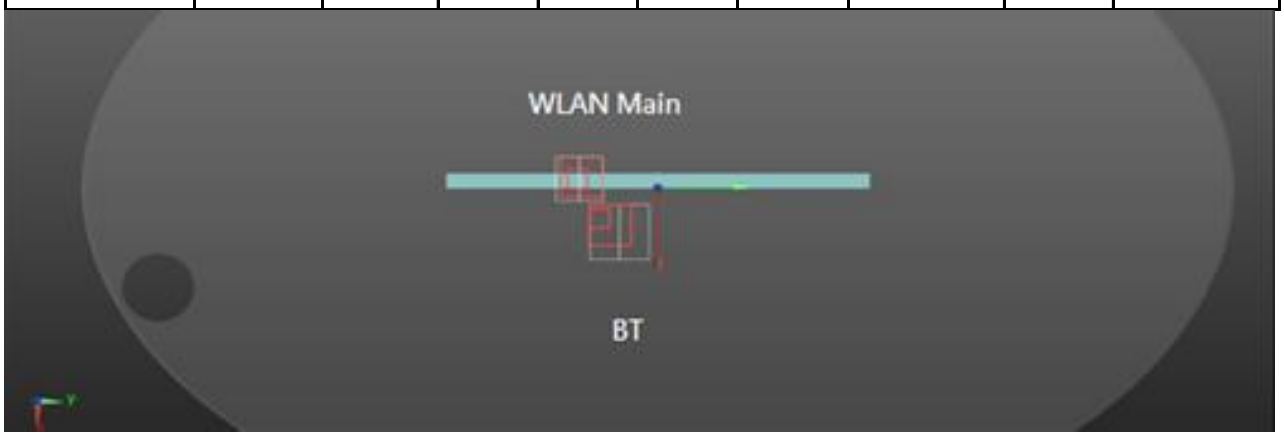
WLAN Main + BT

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WLAN Main	Back side	1.076	-1.56	10.16	-0.35	1.1253	139.2	0.009	SPLSR<0.04, Not required
BT		0.0493	-12.90	2.08	-0.20				

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WLAN Main	Left side	1.159	-0.50	-4.16	-0.32	1.16239	48.2	0.026	SPLSR<0.04, Not required
BT		0.00339	3.88	-2.16	-0.34				



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LTE FDD Band IV + 5 GHz WLAN Main + BT

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	BT	SAR Sum	SPLSR
17	LTE B4	Back side	0	1.320	1.076	0.0493	**2.4453**	Analyzed as below
		Top side	0	0.782	0.029	0.0015	0.8125	ΣSAR<1.6, Not required
		Bottom side	0	0.144	0.006	0.0347	0.1847	ΣSAR<1.6, Not required
		Left side	0	0.573	1.159	0.00339	**1.73539**	Analyzed as below
		Right side	0	0.213	0.001	0.0143	0.2283	ΣSAR<1.6, Not required

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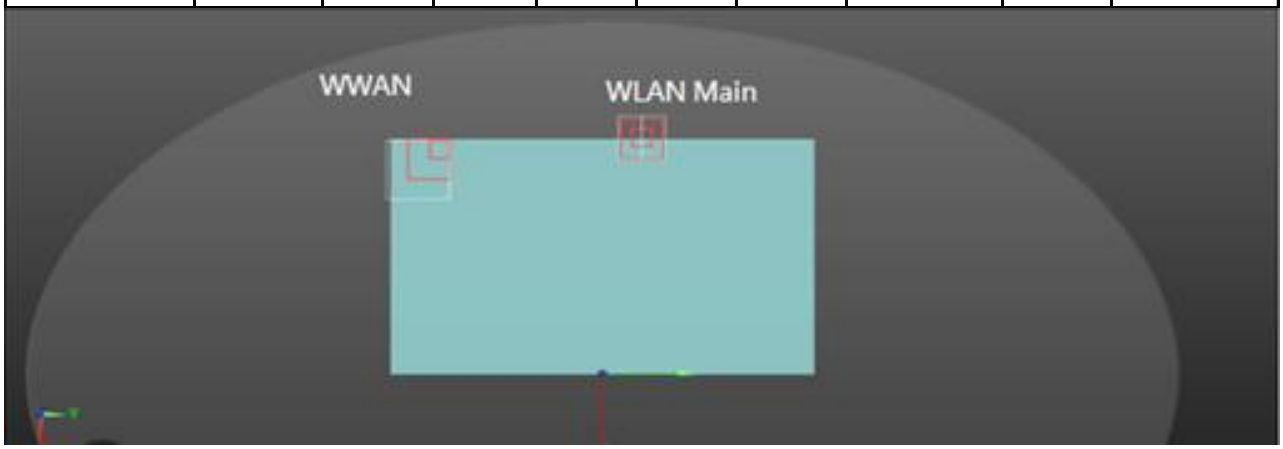
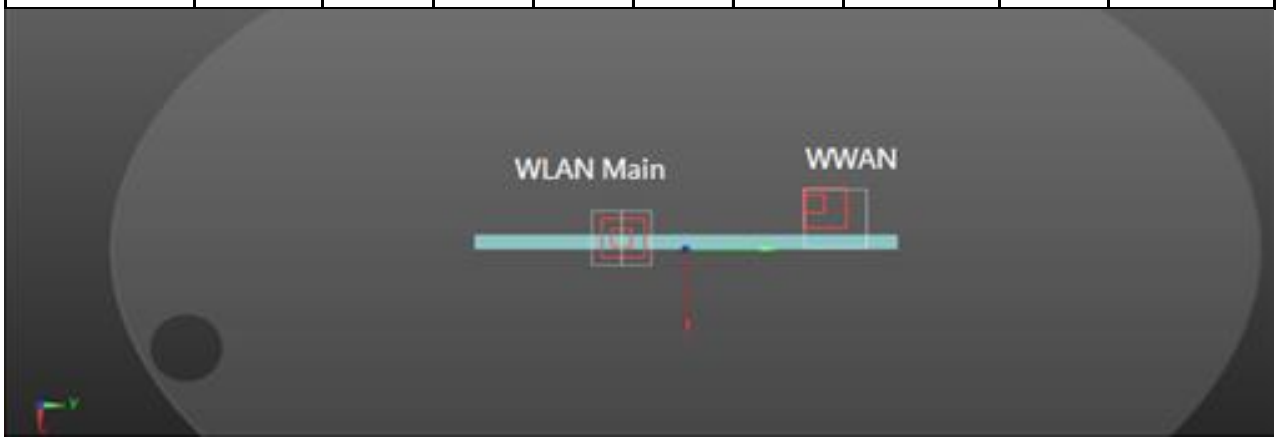
WWAN + WLAN Main

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WWAN	Back side	1.320	-12.75	-7.80	-0.20	2.396	98.8	0.038	SPLSR<0.04, Not required
WLAN Main		1.076	-12.90	2.08	-0.20				



Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WWAN	Left side	0.573	-2.50	6.05	0.99	1.732	96.1	0.024	SPLSR<0.04, Not required
WLAN Main		1.159	-0.64	-3.28	-0.38				



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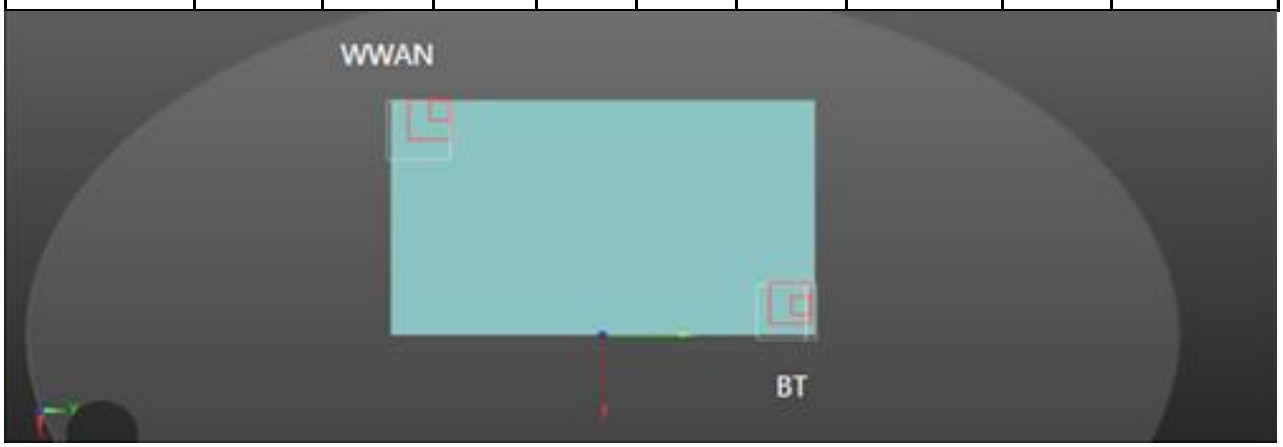
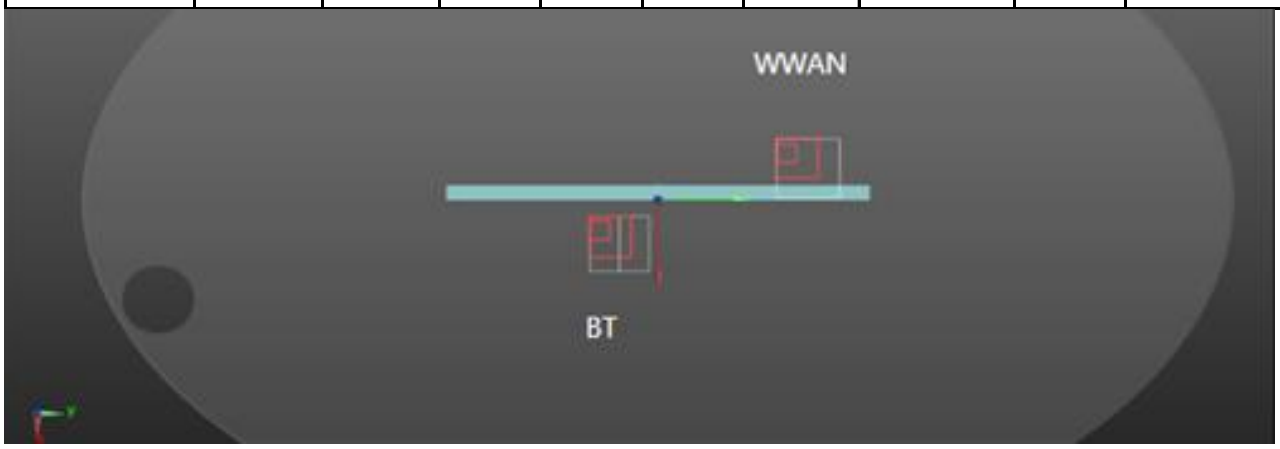
WWAN + BT

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WWAN	Back side	1.320	-12.75	-7.80	-0.20	1.3693	211.6	0.008	SPLSR<0.04, Not required
BT		0.0493	-1.56	10.16	-0.35				



Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WWAN	Left side	0.573	-2.50	6.05	0.99	0.57639	104.8	0.004	SPLSR<0.04, Not required
BT		0.00339	3.88	-2.16	-0.34				



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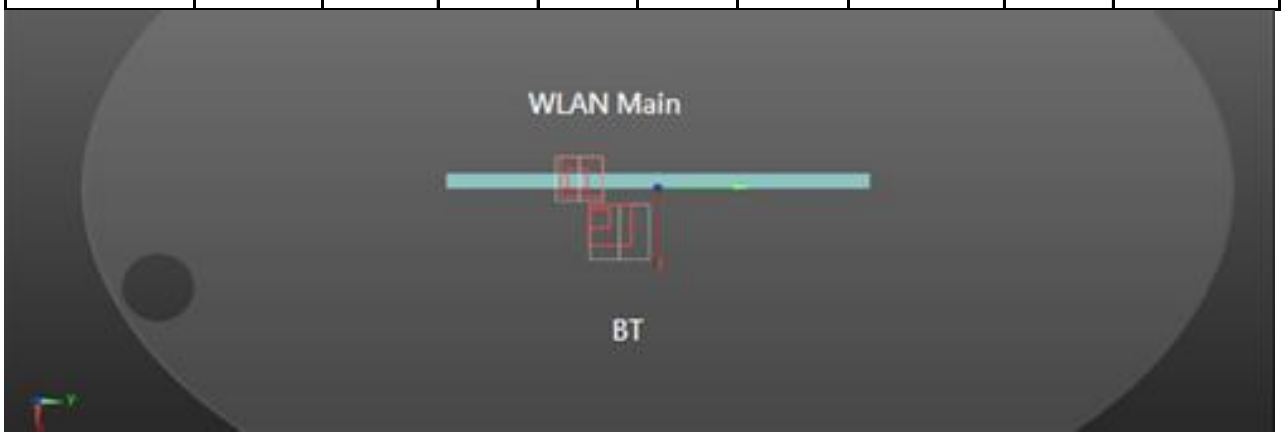
WLAN Main + BT

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WLAN Main	Back side	1.076	-1.56	10.16	-0.35	1.1253	139.2	0.009	SPLSR<0.04, Not required
BT		0.0493	-12.90	2.08	-0.20				

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WLAN Main	Left side	1.159	-0.50	-4.16	-0.32	1.16239	48.2	0.026	SPLSR<0.04, Not required
BT		0.00339	3.88	-2.16	-0.34				



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LTE FDD Band V + 5 GHz WLAN Main + BT

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	BT	SAR Sum	SPLSR
18	LTE B5	Back side	0	0.991	1.076	0.0493	**2.1163**	Analyzed as below
		Top side	0	0.748	0.029	0.0015	0.7785	ΣSAR<1.6, Not required
		Bottom side	0	0.036	0.006	0.0347	0.0767	ΣSAR<1.6, Not required
		Left side	0	0.435	1.159	0.00339	1.59739	ΣSAR<1.6, Not required
		Right side	0	0.148	0.001	0.0143	0.1633	ΣSAR<1.6, Not required

WWAN + WLAN Main

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WWAN	Back side	0.991	-9.10	-8.25	-0.28	2.067	110.1	0.027	SPLSR<0.04, Not required
WLAN Main		1.076	-12.90	2.08	-0.20				

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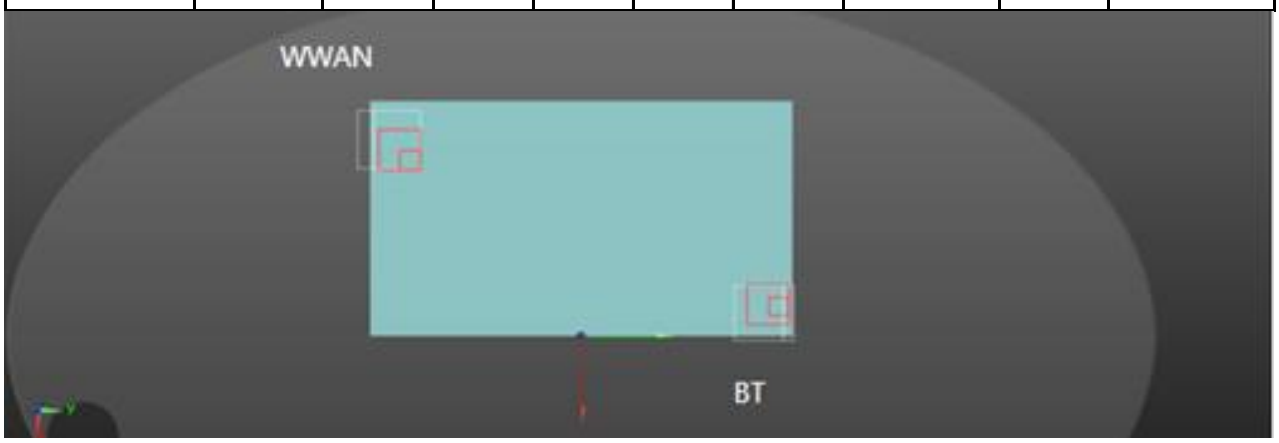
WWAN + BT

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WWAN	Back side	0.991	-9.10	-8.25	-0.28	1.0403	198.9	0.005	SPLSR<0.04, Not required
BT		0.0493	-1.56	10.16	-0.35				



WLAN Main + BT

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WLAN Main	Back side	1.076	-1.56	10.16	-0.35	1.1253	139.2	0.009	SPLSR<0.04, Not required
BT		0.0493	-12.90	2.08	-0.20				

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LTE FDD Band XIII + 5 GHz WLAN Main + BT

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	BT	SAR Sum	SPLSR
19	LTE B13	Back side	0	0.975	1.076	0.0493	**2.1003**	Analyzed as below
		Top side	0	0.691	0.029	0.0015	0.7215	ΣSAR<1.6, Not required
		Bottom side	0	0.032	0.006	0.0347	0.0727	ΣSAR<1.6, Not required
		Left side	0	0.331	1.159	0.00339	1.49339	ΣSAR<1.6, Not required
		Right side	0	0.076	0.001	0.0143	0.0913	ΣSAR<1.6, Not required

WWAN + WLAN Main

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WWAN	Back side	0.975	-10.06	-10.66	-0.24	2.051	130.5	0.023	SPLSR<0.04, Not required
WLAN Main		1.076	-12.90	2.08	-0.20				

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WWAN + BT

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WWAN	Back side	0.975	-10.06	-10.66	-0.24	1.0243	224.9	0.005	SPLSR<0.04, Not required
BT		0.0493	-1.56	10.16	-0.35				

WLAN Main + BT

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WLAN Main	Back side	1.076	-1.56	10.16	-0.35	1.1253	139.2	0.009	SPLSR<0.04, Not required
BT		0.0493	-12.90	2.08	-0.20				

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LTE FDD Band XVII + 5 GHz WLAN Main + BT

No.	Conditions	Position	Distance (mm)	Max. WWAN	Max. WLAN Main	BT	SAR Sum	SPLSR
20	LTE B17	Back side	0	1.318	1.076	0.0493	**2.4433**	Analyzed as below
		Top side	0	1.215	0.029	0.0015	1.2455	ΣSAR<1.6, Not required
		Bottom side	0	0.027	0.006	0.0347	0.0677	ΣSAR<1.6, Not required
		Left side	0	0.219	1.159	0.00339	1.38139	ΣSAR<1.6, Not required
		Right side	0	0.066	0.001	0.0143	0.0813	ΣSAR<1.6, Not required

WWAN + WLAN Main

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WWAN	Back side	1.318	-9.10	-10.66	-0.27	2.394	132.9	0.028	SPLSR<0.04, Not required
WLAN Main		1.076	-12.90	2.08	-0.20				

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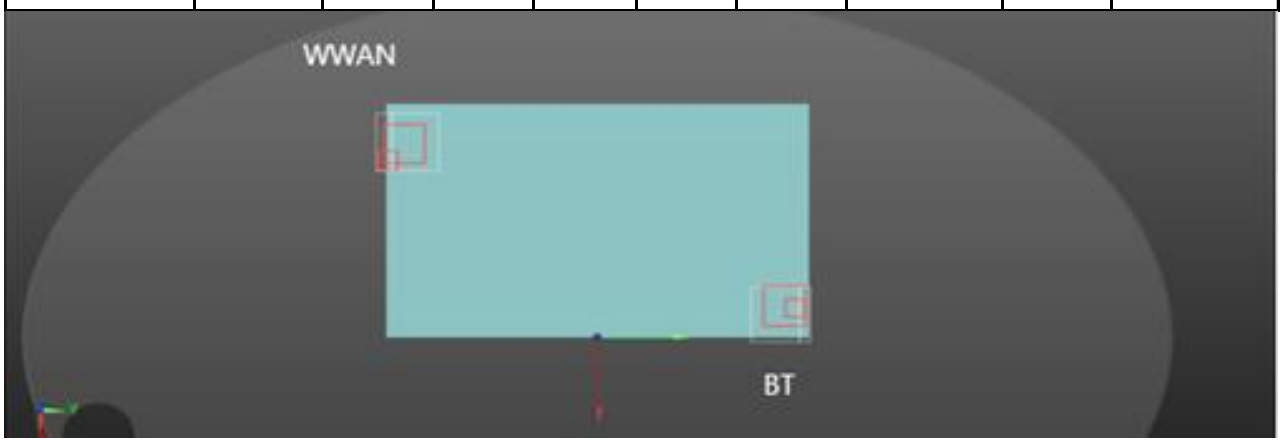
WWAN + BT

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WWAN	Back side	1.318	-9.10	-10.66	-0.27	1.3673	221.4	0.007	SPLSR<0.04, Not required
BT		0.0493	-1.56	10.16	-0.35				



WLAN Main + BT

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
WLAN Main	Back side	1.076	-1.56	10.16	-0.35	1.1253	139.2	0.009	SPLSR<0.04, Not required
BT		0.0493	-12.90	2.08	-0.20				

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4. Instruments List

Manufacturer	Device	Type	Serial number	Date of last calibration	Date of next calibration
Schmid & Partner Engineering AG	Dosimetric E-Field Probe	EX3DV4	3770	Apr.28,2015	Apr.27,2016
Schmid & Partner Engineering AG	System Validation Dipole	D750V2	1015	Aug.28,2014	Aug.27,2015
		D835V2	4d063	Aug.28,2014	Aug.27,2015
		D1750V2	1008	Aug.28,2014	Aug.27,2015
		D1900V2	5d027	Apr.29,2015	Apr.28,2016
		D2450V2	727	Apr.22,2015	Apr.21,2016
		D5GHzV2	1023	Jan.29,2015	Jan.28,2016
Schmid & Partner Engineering AG	Data acquisition Electronics	DAE4	856	Aug.27,2015	Aug.26,2016
Schmid & Partner Engineering AG	Software	DASY 52 V52.8.8	N/A	Calibration not required	Calibration not required
Schmid & Partner Engineering AG	Phantom	SAM	N/A	Calibration not required	Calibration not required
HP	Network Analyzer	8753D	3410A05547	May.21,2015	May.20,2016
Agilent	Dielectric Probe Kit	85070E	MY44300677	Calibration not required	Calibration not required
Agilent	Dual-directional coupler	772D	MY52180142	Feb.11,2015	Feb.10,2016
		778D	MY52180302	Feb.05,2015	Feb.04,2016
Agilent	RF Signal Generator	N5181A	MY50145142	Feb.06,2015	Feb.05,2016

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Manufacturer	Device	Type	Serial number	Date of last calibration	Date of next calibration
Agilent	Power Meter	E4417A	MY51410006	Oct.25,2013	Oct.24,2015
Agilent	Power Sensor	E9301H	MY51470001	Dec.11,2014	Dec.10,2015
TECPEL	Digital thermometer	DTM-303A	TP130078	Mar.30,2015	Mar.29,2016
Anritsu	Radio Communication Test	MT8820C	6201061049	Feb.02,2015	Feb.01,2016

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Member of SGS Group

5. Measurements

Date: 2015/8/10

LTE Band 2_20M_Back_CH 18900_1-0_10mm

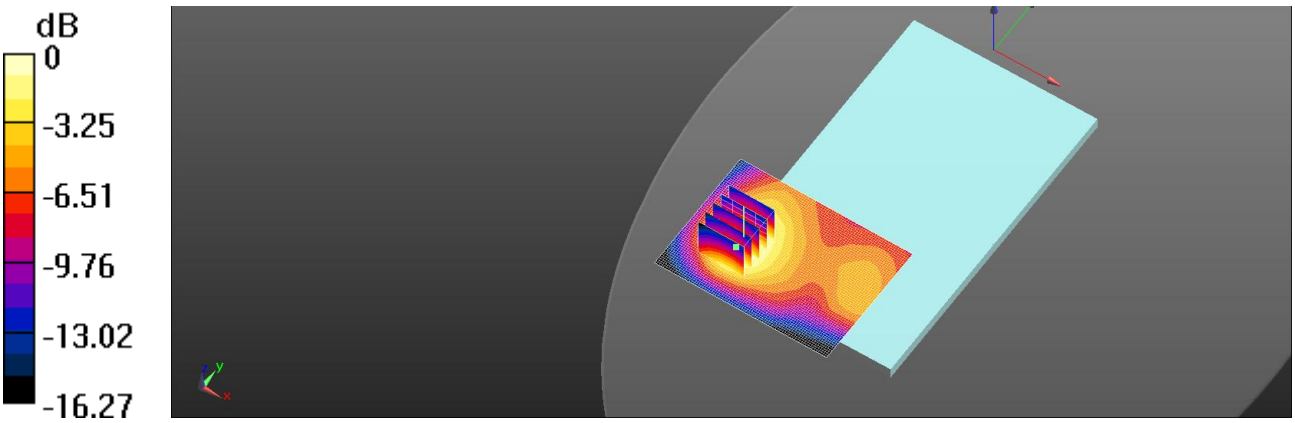
Communication System: LTE; Frequency: 1880 MHz
Medium parameters used: f = 1880 MHz; σ = 1.505 S/m; ε_r = 53.038; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.59, 7.59, 7.59); Calibrated: 2015/4/28;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2014/8/27
- Phantom: Body;
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (81x61x1): Interpolated grid: dx=15 mm, dy=15 mm
Maximum value of SAR (interpolated) = 1.65 W/kg

Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 4.055 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 2.10 W/kg
SAR(1 g) = 1.26 W/kg; SAR(10 g) = 0.742 W/kg
Maximum value of SAR (measured) = 1.34 W/kg



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

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Date: 2015/8/10

LTE Band 4_20M_Back_CH 20050_1-0_10mm

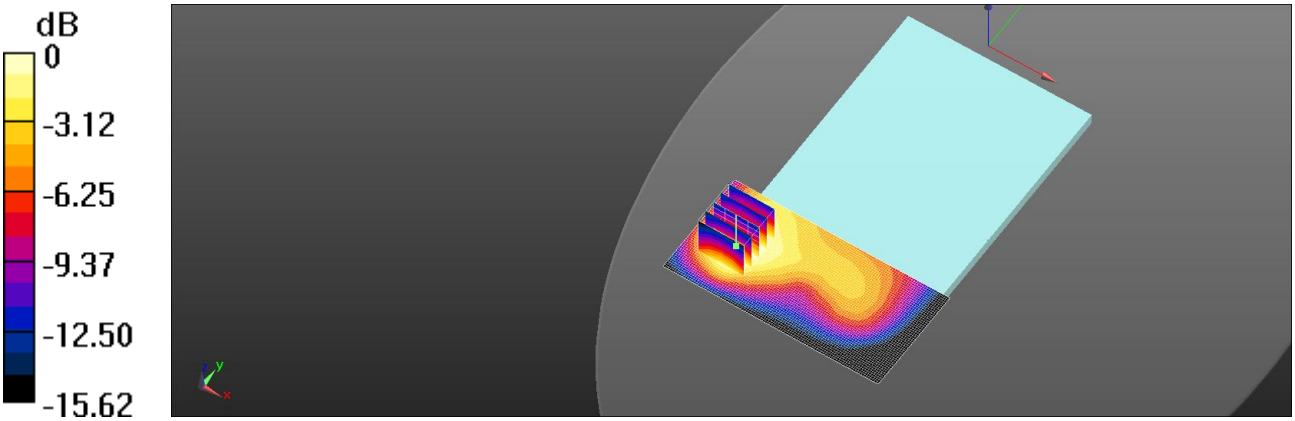
Communication System: LTE; Frequency: 1720 MHz
Medium parameters used: f = 1720 MHz; σ = 1.419 S/m; ε_r = 52.015; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.79, 7.79, 7.79); Calibrated: 2015/4/28;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2014/8/27
- Phantom: Body;
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (101x51x1): Interpolated grid: dx=15 mm, dy=15 mm
Maximum value of SAR (interpolated) = 1.38 W/kg

Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 4.310 V/m; Power Drift = 0.10 dB
Peak SAR (extrapolated) = 1.65 W/kg
SAR(1 g) = 0.989 W/kg; SAR(10 g) = 0.586 W/kg
Maximum value of SAR (measured) = 1.07 W/kg



0 dB = 1.07 W/kg = 0.29 dBW/kg

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Date: 2015/8/11

LTE Band 5_10M_Back_CH 20450_25-0_0mm_Reduced power

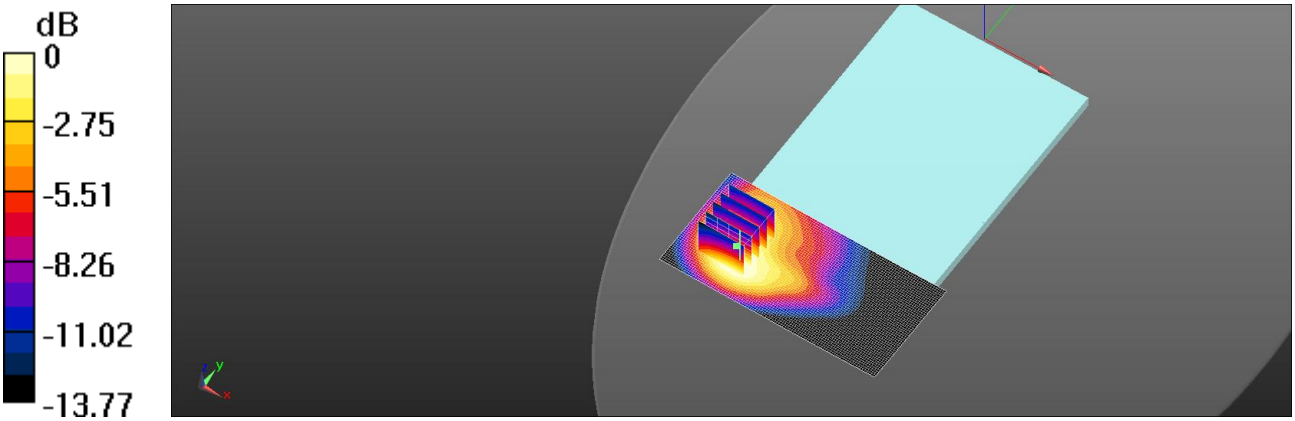
Communication System: LTE; Frequency: 829 MHz
Medium parameters used: f = 829 MHz; σ = 1.004 S/m; ε_r = 56.755; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(9.17, 9.17, 9.17); Calibrated: 2015/4/28;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2014/8/27
- Phantom: Body;
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (101x51x1): Interpolated grid: dx=15 mm, dy=15 mm
Maximum value of SAR (interpolated) = 0.847 W/kg

Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 1.825 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 1.16 W/kg
SAR(1 g) = 0.669 W/kg; SAR(10 g) = 0.401 W/kg
Maximum value of SAR (measured) = 0.737 W/kg



0 dB = 0.737 W/kg = -1.33 dBW/kg

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Date: 2015/8/11

LTE Band 13_10M_Back_CH 23230_1-25_0mm_Reduced power

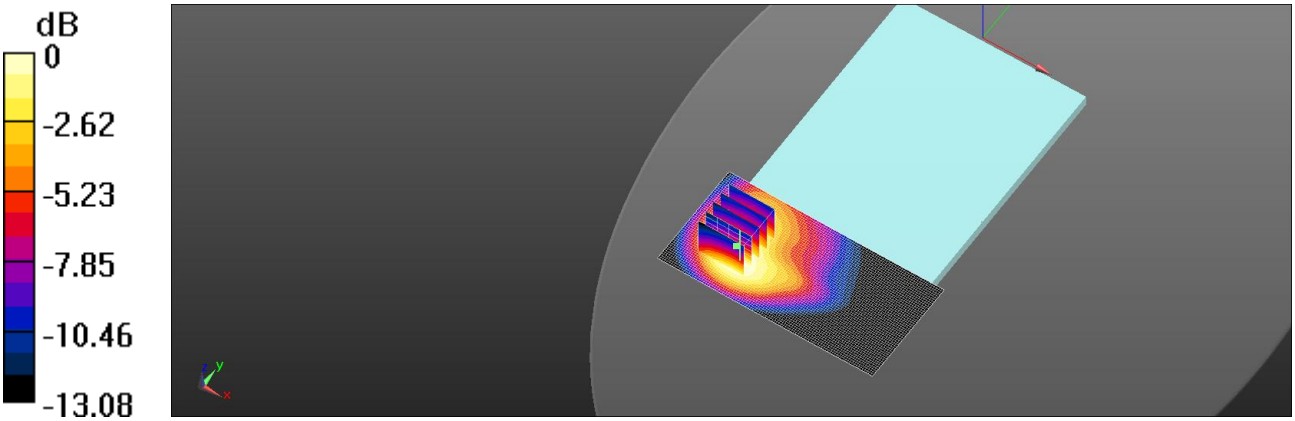
Communication System: LTE; Frequency: 782 MHz
Medium parameters used: f = 782 MHz; σ = 1.005 S/m; ε_r = 53.042; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(9.3, 9.3, 9.3); Calibrated: 2015/4/28;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2014/8/27
- Phantom: Body;
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (101x51x1): Interpolated grid: dx=15 mm, dy=15 mm
Maximum value of SAR (interpolated) = 0.860 W/kg

Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 1.895 V/m; Power Drift = -0.14 dB
Peak SAR (extrapolated) = 1.07 W/kg
SAR(1 g) = 0.638 W/kg; SAR(10 g) = 0.393 W/kg
Maximum value of SAR (measured) = 0.713 W/kg



0 dB = 0.713 W/kg = -1.47 dBW/kg

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Date: 2015/8/11

LTE Band 17_10M_Back_CH 23790_1-25_0mm_Reduced power

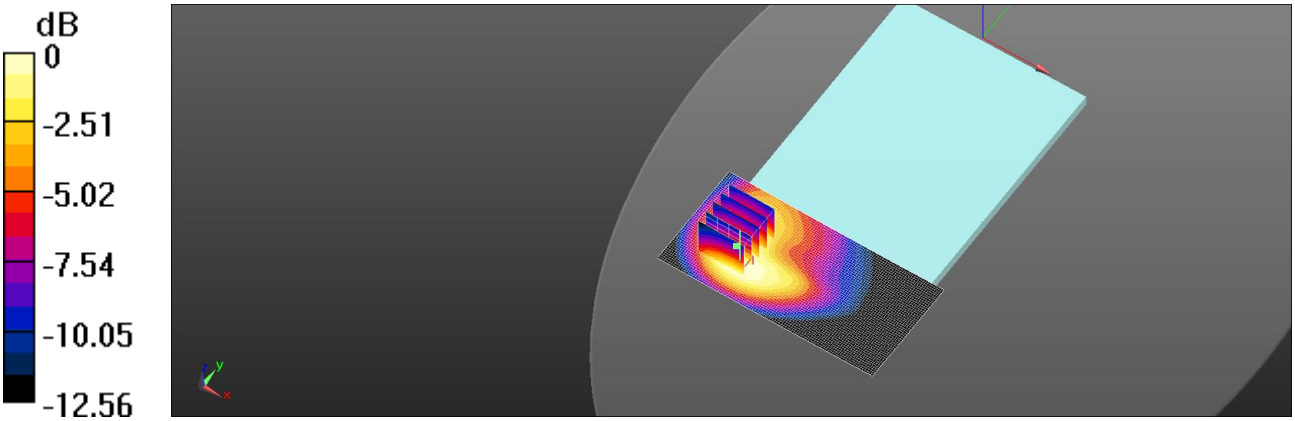
Communication System: LTE; Frequency: 710 MHz
Medium parameters used: f = 710 MHz; σ = 0.973 S/m; ε_r = 53.817; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(9.3, 9.3, 9.3); Calibrated: 2015/4/28;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2014/8/27
- Phantom: Body;
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (101x51x1): Interpolated grid: dx=15 mm, dy=15 mm
Maximum value of SAR (interpolated) = 1.12 W/kg

Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 2.189 V/m; Power Drift = 0.13 dB
Peak SAR (extrapolated) = 1.41 W/kg
SAR(1 g) = 0.863 W/kg; SAR(10 g) = 0.544 W/kg
Maximum value of SAR (measured) = 0.963 W/kg



0 dB = 0.963 W/kg = -0.16 dBW/kg

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Date: 2015/8/3

WLAN802.11 b_Body_Left side_CH 11_Main

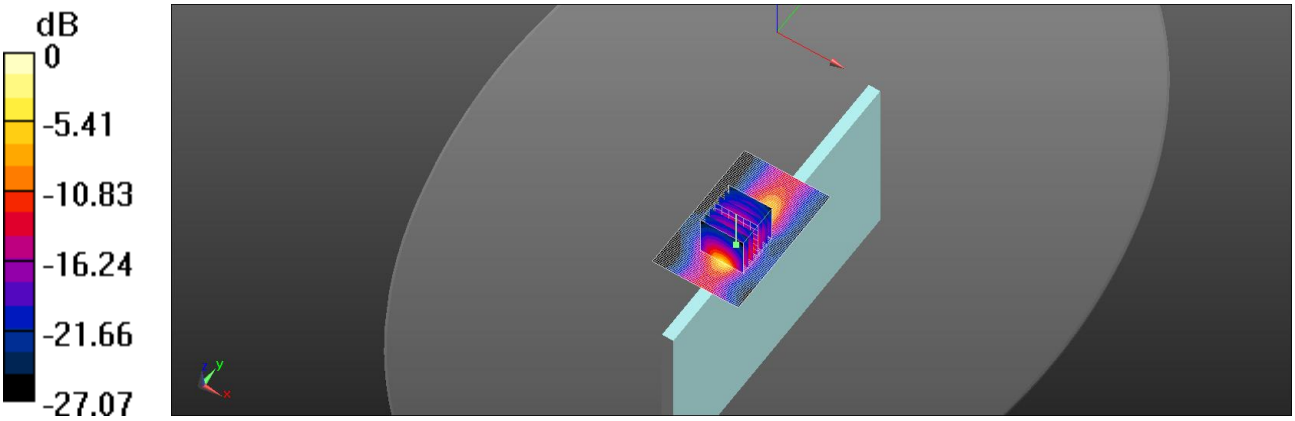
Communication System: WLAN 2.45G; Frequency: 2462 MHz
Medium parameters used: f = 2462 MHz; σ = 2.033 S/m; ε_r = 50.923; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.21, 7.21, 7.21); Calibrated: 2015/4/28;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2014/8/27
- Phantom: Body;
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (51x81x1): Interpolated grid: dx=12 mm, dy=12 mm
Maximum value of SAR (interpolated) = 2.25 W/kg

Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 10.08 V/m; Power Drift = -0.14 dB
Peak SAR (extrapolated) = 3.11 W/kg
SAR(1 g) = 1.17 W/kg; SAR(10 g) = 0.412 W/kg
Maximum value of SAR (measured) = 2.13 W/kg



0 dB = 2.13 W/kg = 3.28 dBW/kg

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Date: 2015/8/3

WLAN802.11 g_Body_Left side_CH 6_Main

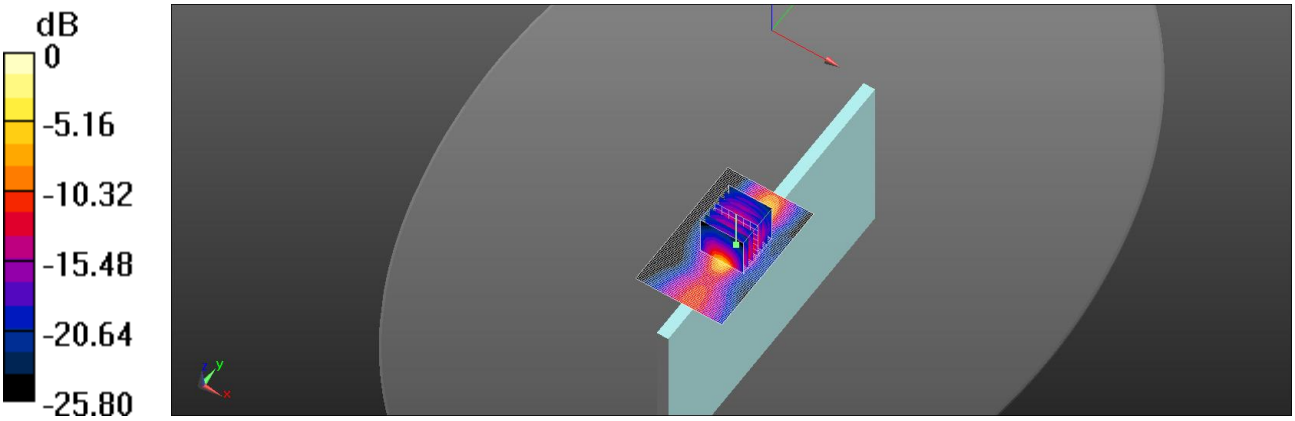
Communication System: WLAN 2.45G; Frequency: 2437 MHz
Medium parameters used: f = 2437 MHz; σ = 2.001 S/m; ε_r = 51.011; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.21, 7.21, 7.21); Calibrated: 2015/4/28;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2014/8/27
- Phantom: Body;
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (51x81x1): Interpolated grid: dx=12 mm, dy=12 mm
Maximum value of SAR (interpolated) = 2.29 W/kg

Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 13.40 V/m; Power Drift = -0.17 dB
Peak SAR (extrapolated) = 2.94 W/kg
SAR(1 g) = 1.15 W/kg; SAR(10 g) = 0.416 W/kg
Maximum value of SAR (measured) = 2.04 W/kg



0 dB = 2.04 W/kg = 3.10 dBW/kg

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Date: 2015/8/3

WLAN802.11 n(40M)_Body_Left side_CH 6_Main

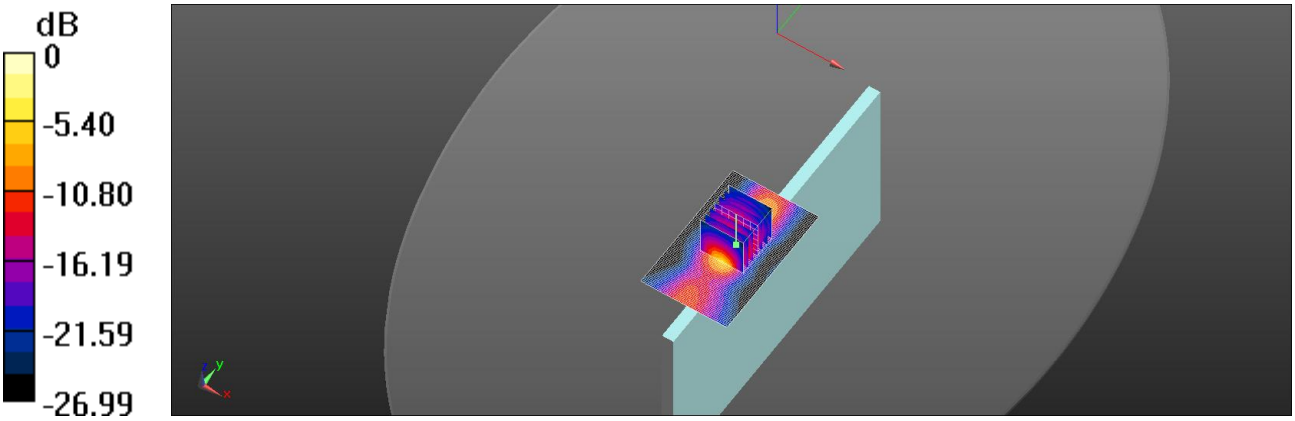
Communication System: WLAN 2.45G; Frequency: 2437 MHz
Medium parameters used: f = 2437 MHz; σ = 2.001 S/m; ε_r = 51.011; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.21, 7.21, 7.21); Calibrated: 2015/4/28;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2014/8/27
- Phantom: Body;
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (51x81x1): Interpolated grid: dx=12 mm, dy=12 mm
Maximum value of SAR (interpolated) = 1.95 W/kg

Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 8.113 V/m; Power Drift = 0.19 dB
Peak SAR (extrapolated) = 2.65 W/kg
SAR(1 g) = 1.03 W/kg; SAR(10 g) = 0.369 W/kg
Maximum value of SAR (measured) = 1.84 W/kg



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

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Date: 2015/8/4

WLAN802.11 ac(80M) 5.2G_Body_Left side_CH 42_Main

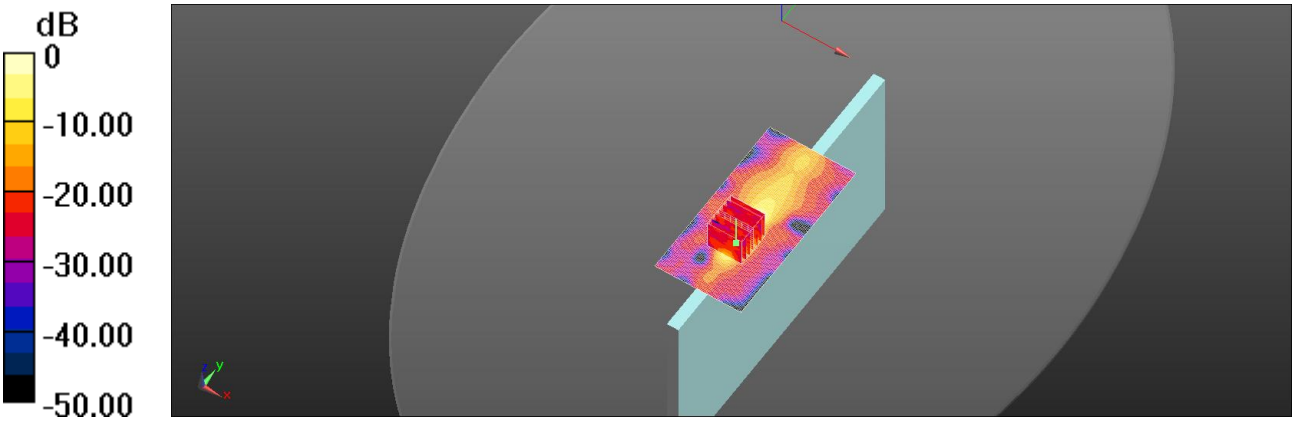
Communication System: WLAN 5G; Frequency: 5210 MHz
Medium parameters used: f = 5210 MHz; σ = 5.477 S/m; ε_r = 47.881; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(4.7, 4.7, 4.7); Calibrated: 2015/4/28;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2014/8/27
- Phantom: Body;
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (61x121x1): Interpolated grid: dx=10 mm, dy=10 mm
Maximum value of SAR (interpolated) = 4.79 W/kg

Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 5.516 V/m; Power Drift = -0.14 dB
Peak SAR (extrapolated) = 6.97 W/kg
SAR(1 g) = 1.14 W/kg; SAR(10 g) = 0.174 W/kg
Maximum value of SAR (measured) = 2.01 W/kg



0 dB = 2.01 W/kg = 3.03 dBW/kg

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Date: 2015/8/5

WLAN802.11 ac(80M) 5.3G_Body_Left side_CH 58_Main

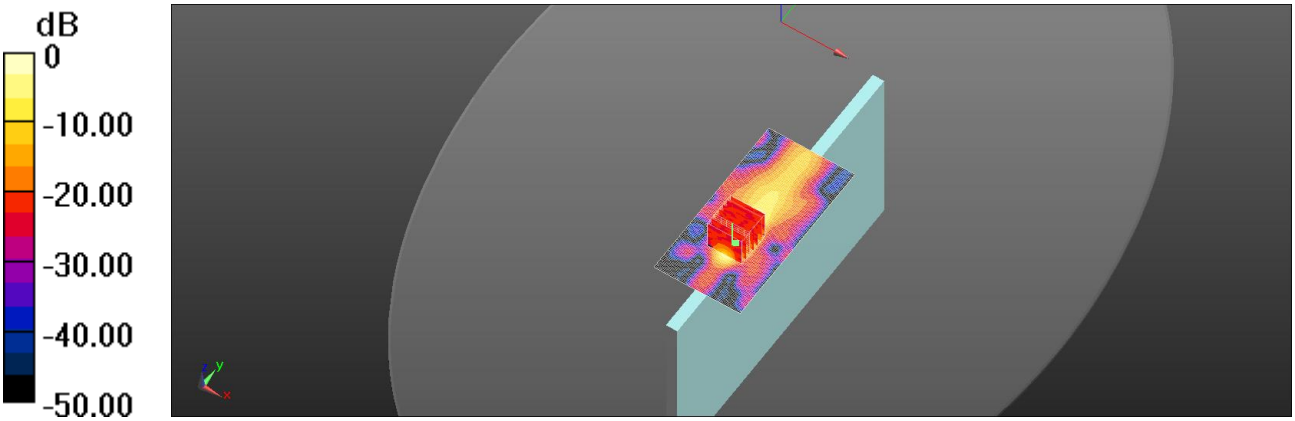
Communication System: WLAN 5G; Frequency: 5290 MHz
Medium parameters used: f = 5290 MHz; σ = 5.595 S/m; ε_r = 47.623; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(4.7, 4.7, 4.7); Calibrated: 2015/4/28;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2014/8/27
- Phantom: Body;
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (61x121x1): Interpolated grid: dx=10 mm, dy=10 mm
Maximum value of SAR (interpolated) = 3.91 W/kg

Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 5.240 V/m; Power Drift = -0.14 dB
Peak SAR (extrapolated) = 6.80 W/kg
SAR(1 g) = 1.01 W/kg; SAR(10 g) = 0.167 W/kg
Maximum value of SAR (measured) = 1.73 W/kg



0 dB = 1.73 W/kg = 2.38 dBW/kg

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Date: 2015/8/6

WLAN802.11 ac(80M) 5.6G_Body_Left side_CH 106_Main

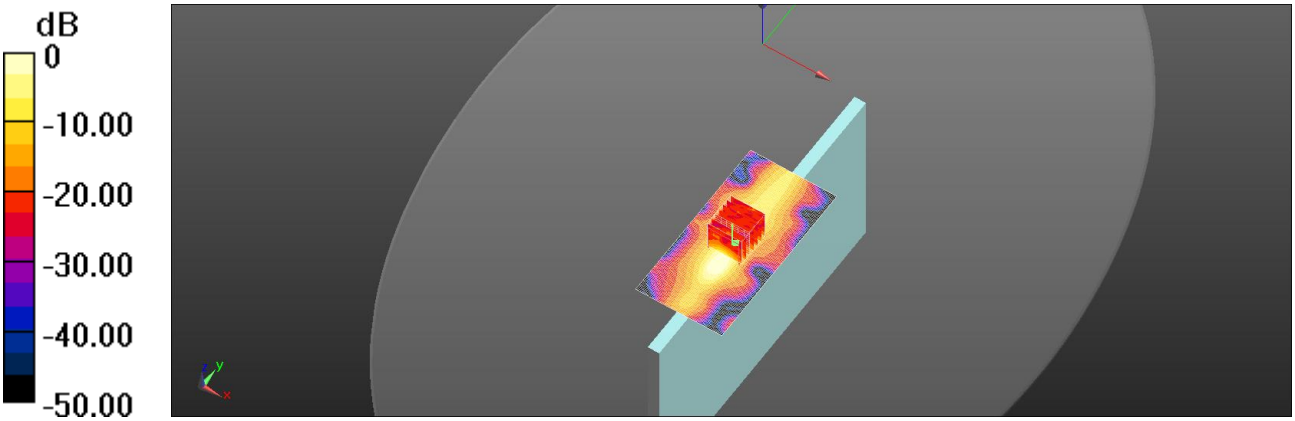
Communication System: WLAN 5G; Frequency: 5530 MHz
Medium parameters used: f = 5530 MHz; σ = 5.921 S/m; ε_r = 46.786; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(4.03, 4.03, 4.03); Calibrated: 2015/4/28;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2014/8/27
- Phantom: Body;
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (61x121x1): Interpolated grid: dx=10 mm, dy=10 mm
Maximum value of SAR (interpolated) = 3.26 W/kg

Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 6.839 V/m; Power Drift = 0.17 dB
Peak SAR (extrapolated) = 7.36 W/kg
SAR(1 g) = 1.02 W/kg; SAR(10 g) = 0.190 W/kg
Maximum value of SAR (measured) = 1.64 W/kg



0 dB = 1.64 W/kg = 2.15 dBW/kg

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Date: 2015/8/7

WLAN802.11 ac(80M) 5.8G_Body_Left side_CH 155_Main

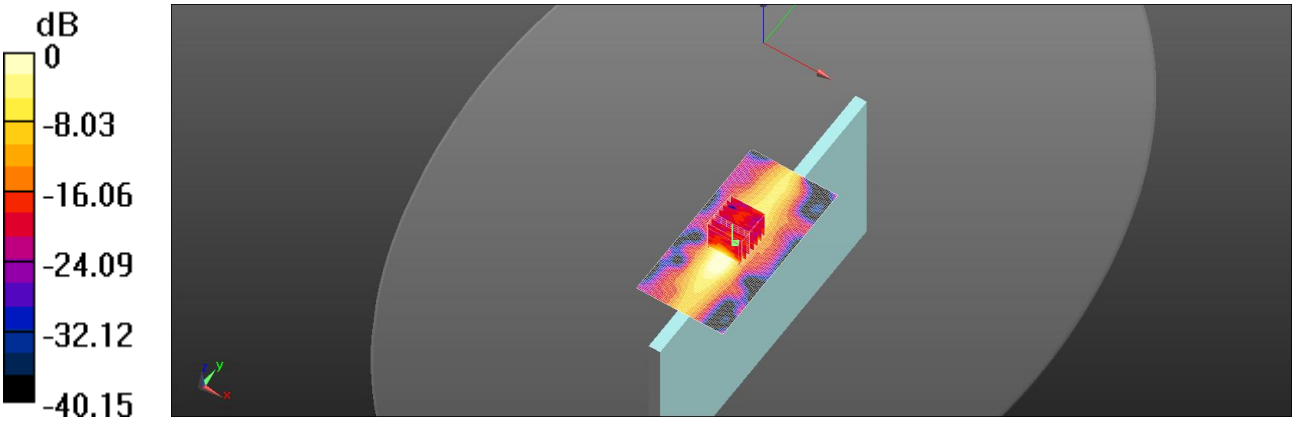
Communication System: WLAN 5G; Frequency: 5775 MHz
Medium parameters used: f = 5775 MHz; σ = 6.2 S/m; ε_r = 46.085; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(4.33, 4.33, 4.33); Calibrated: 2015/4/28;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2014/8/27
- Phantom: Body;
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (61x121x1): Interpolated grid: dx=10 mm, dy=10 mm
Maximum value of SAR (interpolated) = 1.79 W/kg

Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 5.653 V/m; Power Drift = -0.12 dB
Peak SAR (extrapolated) = 2.50 W/kg
SAR(1 g) = 0.470 W/kg; SAR(10 g) = 0.097 W/kg
Maximum value of SAR (measured) = 0.841 W/kg



0 dB = 0.841 W/kg = -0.75 dBW/kg

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Date: 2015/8/3

WLAN802.11 b_Body_Back_CH 11_Aux

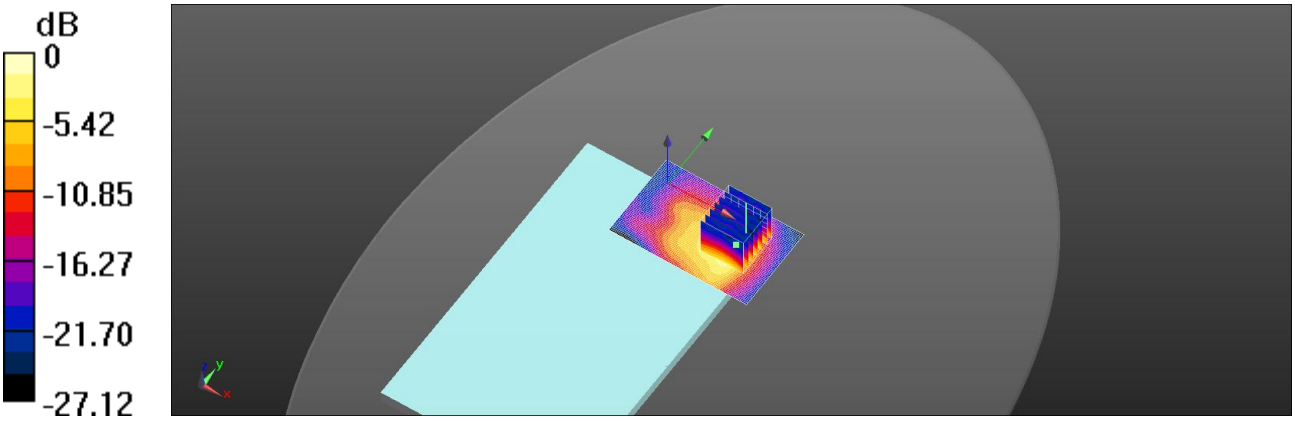
Communication System: WLAN 2.45G; Frequency: 2462 MHz
Medium parameters used: f = 2462 MHz; σ = 2.033 S/m; ε_r = 50.923; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.21, 7.21, 7.21); Calibrated: 2015/4/28;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2014/8/27
- Phantom: Body;
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (81x51x1): Interpolated grid: dx=12 mm, dy=12 mm
Maximum value of SAR (interpolated) = 1.47 W/kg

Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 2.263 V/m; Power Drift = -0.15 dB
Peak SAR (extrapolated) = 2.84 W/kg
SAR(1 g) = 0.921 W/kg; SAR(10 g) = 0.398 W/kg
Maximum value of SAR (measured) = 1.63 W/kg



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

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Date: 2015/8/3

WLAN802.11 g_Body_Back_CH 6_Aux

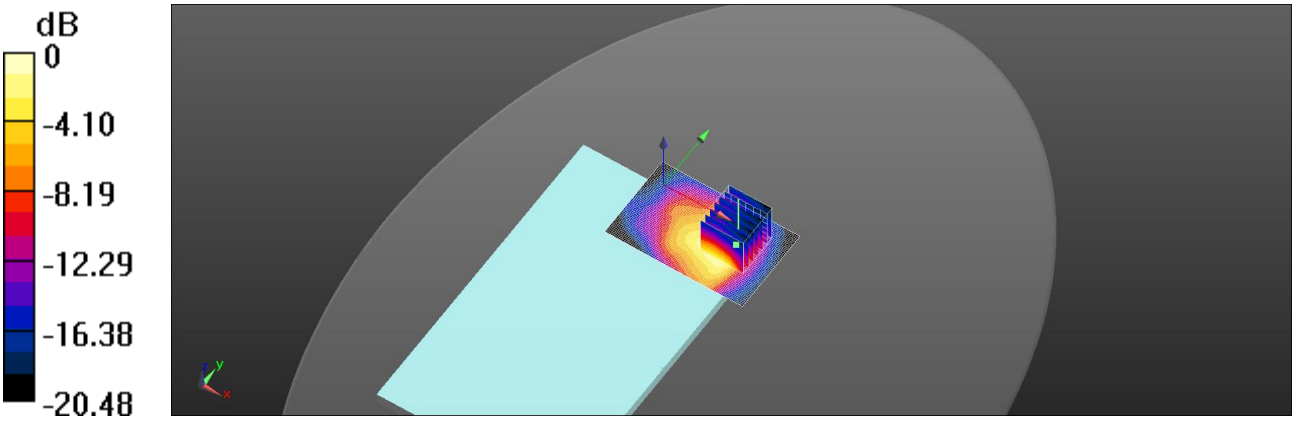
Communication System: WLAN 2.45G; Frequency: 2437 MHz
Medium parameters used: f = 2437 MHz; σ = 2.001 S/m; ε_r = 51.011; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.21, 7.21, 7.21); Calibrated: 2015/4/28;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2014/8/27
- Phantom: Body;
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (81x51x1): Interpolated grid: dx=12 mm, dy=12 mm
Maximum value of SAR (interpolated) = 1.25 W/kg

Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 2.081 V/m; Power Drift = -0.11 dB
Peak SAR (extrapolated) = 1.83 W/kg
SAR(1 g) = 0.752 W/kg; SAR(10 g) = 0.364 W/kg
Maximum value of SAR (measured) = 1.18 W/kg



0 dB = 1.18 W/kg = 0.72 dBW/kg

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Date: 2015/8/3

WLAN802.11 n(40M)_Body_Back_CH 6_Aux

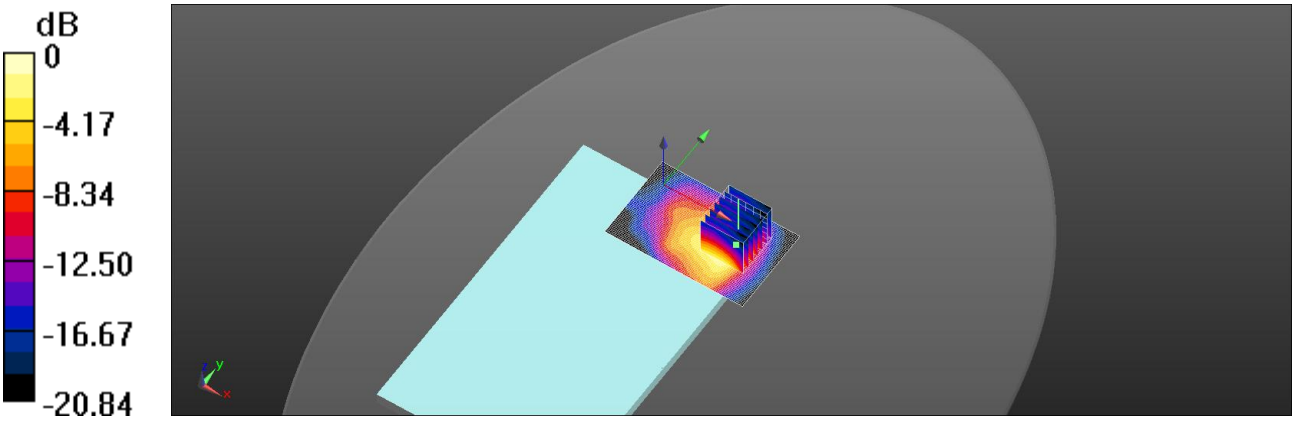
Communication System: WLAN 2.45G; Frequency: 2437 MHz
Medium parameters used: f = 2437 MHz; σ = 2.001 S/m; ε_r = 51.011; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.21, 7.21, 7.21); Calibrated: 2015/4/28;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2014/8/27
- Phantom: Body;
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (81x51x1): Interpolated grid: dx=12 mm, dy=12 mm
Maximum value of SAR (interpolated) = 1.28 W/kg

Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 1.226 V/m; Power Drift = -0.14 dB
Peak SAR (extrapolated) = 1.97 W/kg
SAR(1 g) = 0.786 W/kg; SAR(10 g) = 0.380 W/kg
Maximum value of SAR (measured) = 1.26 W/kg



0 dB = 1.26 W/kg = 1.00 dBW/kg

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Date: 2015/8/4

WLAN802.11 ac(80M) 5.2G_Body_Back_CH 42_Aux

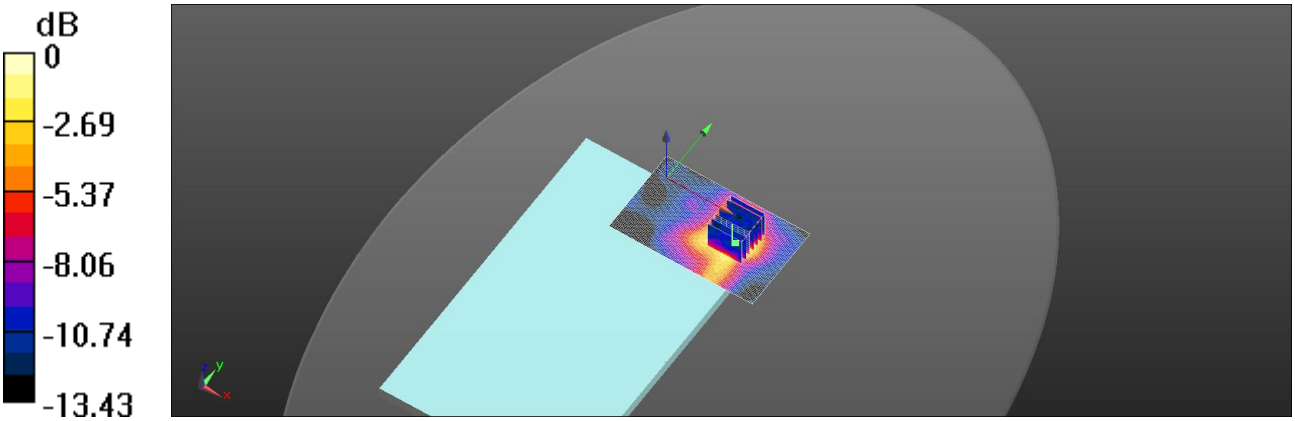
Communication System: WLAN 5G; Frequency: 5210 MHz
Medium parameters used: f = 5210 MHz; σ = 5.477 S/m; ε_r = 47.881; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(4.7, 4.7, 4.7); Calibrated: 2015/4/28;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2014/8/27
- Phantom: Body;
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (101x61x1): Interpolated grid: dx=10 mm, dy=10 mm
Maximum value of SAR (interpolated) = 0.940 W/kg

Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 2.495 V/m; Power Drift = -0.16 dB
Peak SAR (extrapolated) = 1.49 W/kg
SAR(1 g) = 0.442 W/kg; SAR(10 g) = 0.175 W/kg
Maximum value of SAR (measured) = 0.585 W/kg



0 dB = 0.585 W/kg = -2.33 dBW/kg

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Date: 2015/8/5

WLAN802.11 ac(80M) 5.3G_Body_Back_CH 58_Aux

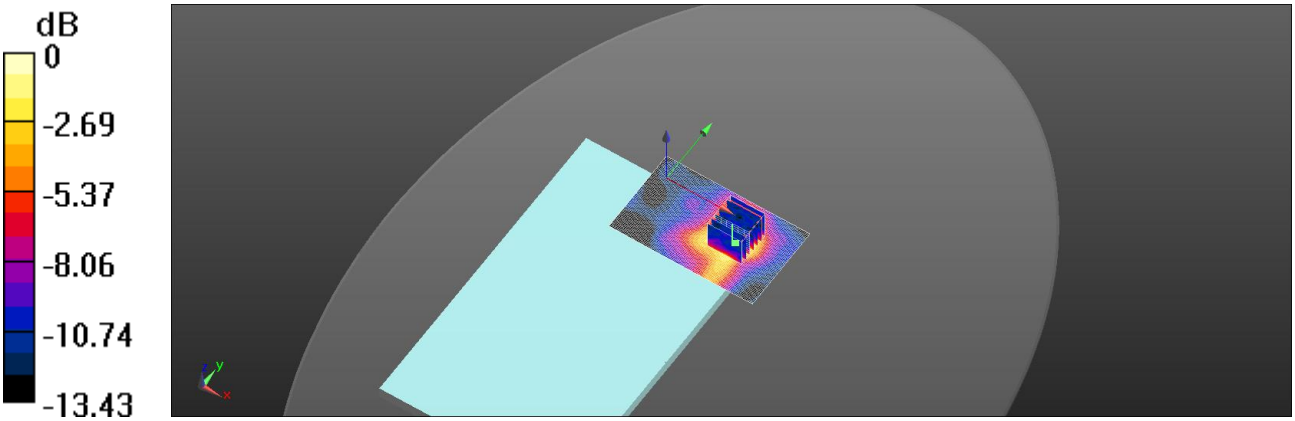
Communication System: WLAN 5G; Frequency: 5290 MHz
Medium parameters used: f = 5290 MHz; σ = 5.595 S/m; ε_r = 47.623; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(4.7, 4.7, 4.7); Calibrated: 2015/4/28;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2014/8/27
- Phantom: Body;
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (101x61x1): Interpolated grid: dx=10 mm, dy=10 mm
Maximum value of SAR (interpolated) = 0.986 W/kg

Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 2.528 V/m; Power Drift = -0.16 dB
Peak SAR (extrapolated) = 1.56 W/kg
SAR(1 g) = 0.463 W/kg; SAR(10 g) = 0.183 W/kg
Maximum value of SAR (measured) = 0.614 W/kg



0 dB = 0.614 W/kg = -2.12 dBW/kg

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Date: 2015/8/6

WLAN802.11 ac(80M) 5.6G_Body_Back_CH 138_Aux

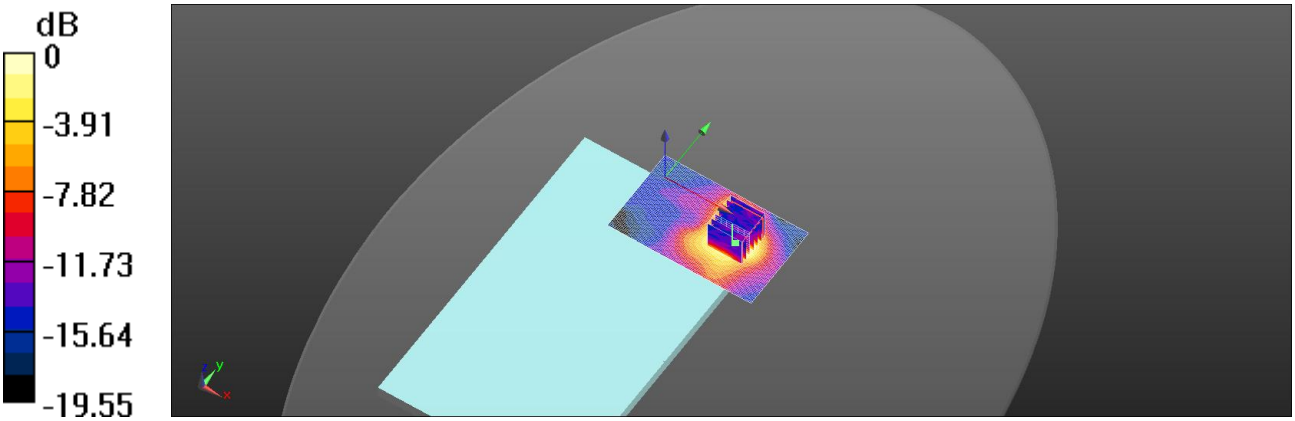
Communication System: WLAN 5G; Frequency: 5690 MHz
Medium parameters used: f = 5690 MHz; σ = 6.101 S/m; ε_r = 46.231; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(4.03, 4.03, 4.03); Calibrated: 2015/4/28;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2014/8/27
- Phantom: Body;
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (101x61x1): Interpolated grid: dx=10 mm, dy=10 mm
Maximum value of SAR (interpolated) = 2.69 W/kg

Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 2.842 V/m; Power Drift = 0.18 dB
Peak SAR (extrapolated) = 4.48 W/kg
SAR(1 g) = 1.13 W/kg; SAR(10 g) = 0.366 W/kg
Maximum value of SAR (measured) = 1.31 W/kg



0 dB = 1.31 W/kg = 1.17 dBW/kg

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Date: 2015/8/7

WLAN802.11 ac(80M) 5.8G_Body_Back_CH 155_Aux

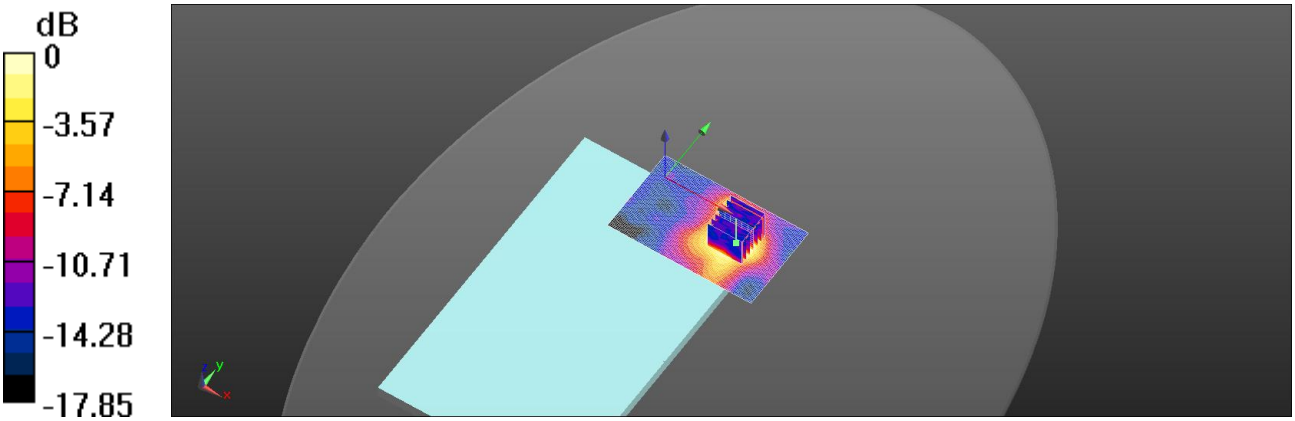
Communication System: WLAN 5G; Frequency: 5775 MHz
Medium parameters used: f = 5775 MHz; σ = 6.2 S/m; ε_r = 46.085; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(4.33, 4.33, 4.33); Calibrated: 2015/4/28;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2014/8/27
- Phantom: Body;
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (101x61x1): Interpolated grid: dx=10 mm, dy=10 mm
Maximum value of SAR (interpolated) = 1.84 W/kg

Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 1.925 V/m; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 3.92 W/kg
SAR(1 g) = 0.810 W/kg; SAR(10 g) = 0.259 W/kg
Maximum value of SAR (measured) = 0.887 W/kg



0 dB = 0.887 W/kg = -0.52 dBW/kg

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Date: 2015/8/3

BT_Body_Back_CH 39

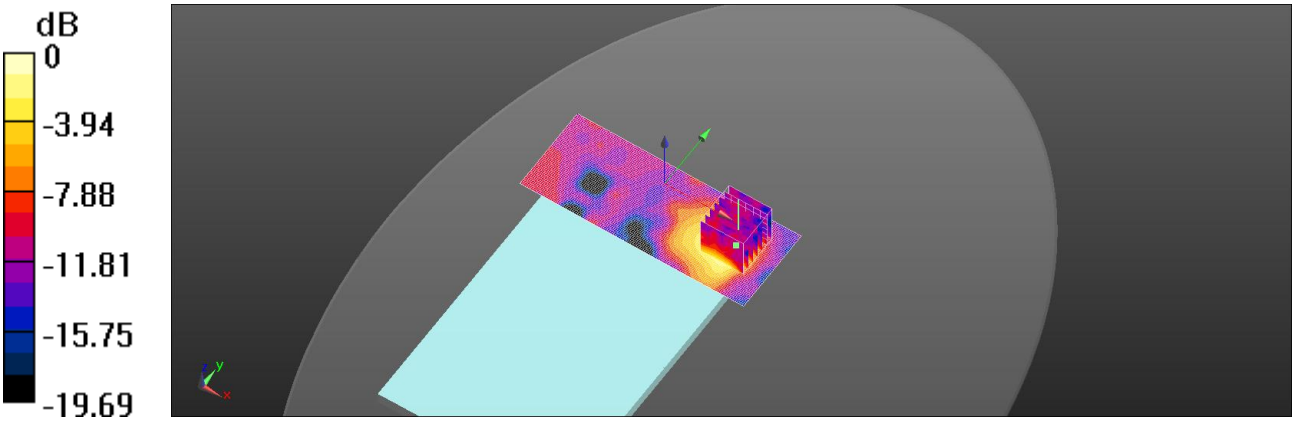
Communication System: Bluetooth; Frequency: 2441 MHz
Medium parameters used: f = 2441 MHz; σ = 2.004 S/m; ε_r = 50.962; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.21, 7.21, 7.21); Calibrated: 2015/4/28;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2014/8/27
- Phantom: Body;
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Body/Area Scan (131x51x1): Interpolated grid: dx=12 mm, dy=12 mm
Maximum value of SAR (interpolated) = 0.0864 W/kg

Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 0.8430 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 0.134 W/kg
SAR(1 g) = 0.049 W/kg; SAR(10 g) = 0.024 W/kg
Maximum value of SAR (measured) = 0.0818 W/kg



0 dB = 0.0818 W/kg = -10.87 dBW/kg

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6. SAR System Performance Verification

Date: 2015/8/11

Dipole 750 MHz_SN:1015_Body

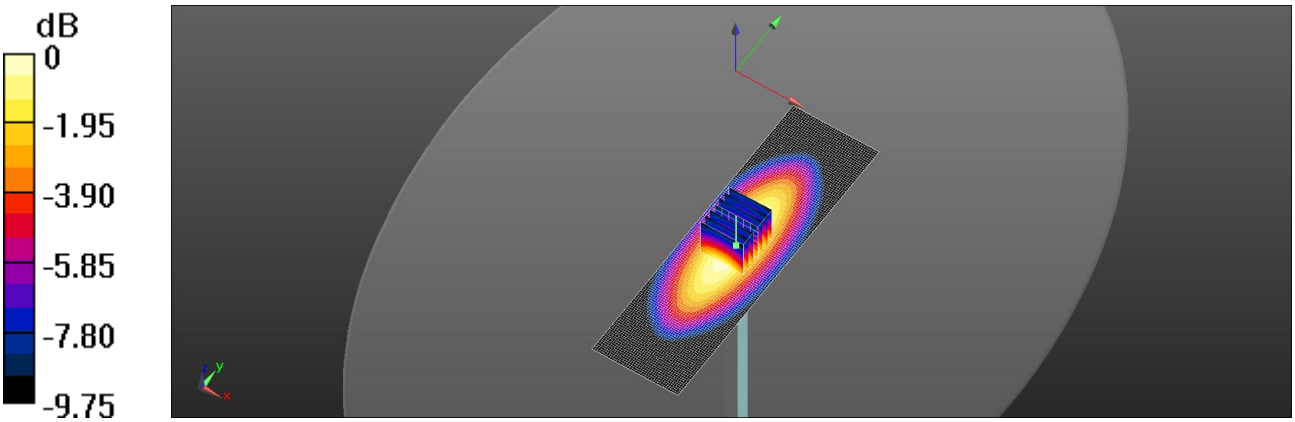
Communication System: CW; Frequency: 750 MHz
Medium parameters used: f = 750 MHz; σ = 0.994 S/m; ε_r = 53.395; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(9.3, 9.3, 9.3); Calibrated: 2015/4/28;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2014/8/27
- Phantom: Body;
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Pin=250mW/Area Scan (41x141x1): Interpolated grid: dx=15 mm, dy=15 mm
Maximum value of SAR (interpolated) = 2.74 W/kg

Configuration/Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 53.39 V/m; Power Drift = -0.00 dB
Peak SAR (extrapolated) = 3.21 W/kg
SAR(1 g) = 2.21 W/kg; SAR(10 g) = 1.48 W/kg
Maximum value of SAR (measured) = 2.77 W/kg



0 dB = 2.77 W/kg = 4.42 dBW/kg

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Date: 2015/8/11

Dipole 835 MHz_SN:4d063_Body

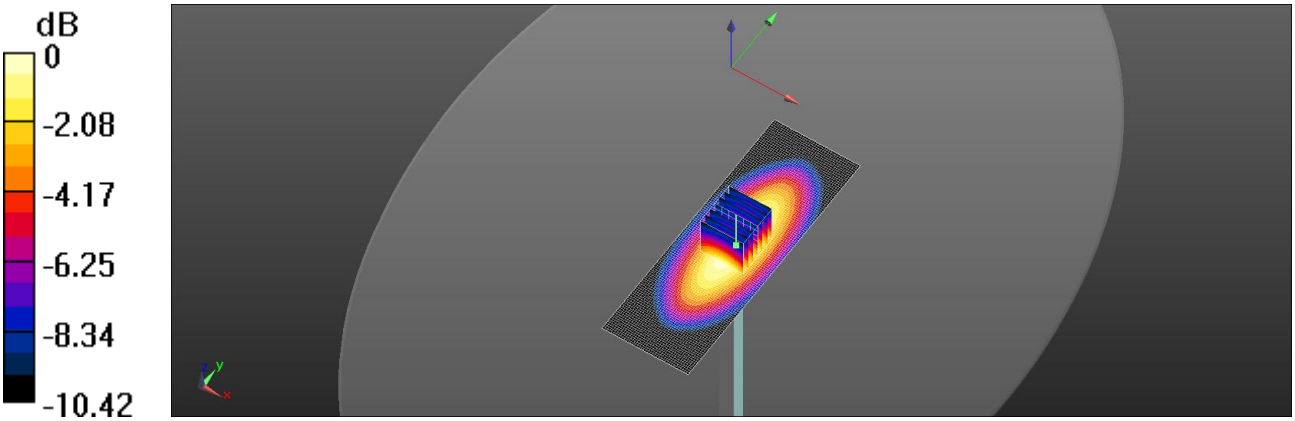
Communication System: UID 0, CW; Frequency: 835 MHz
Medium parameters used: f = 835 MHz; σ = 1.013 S/m; ε_r = 56.664; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(9.17, 9.17, 9.17); Calibrated: 2015/4/28;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2014/8/27
- Phantom: Body;
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Pin=250mW/Area Scan (41x121x1): Interpolated grid: dx=15 mm, dy=15 mm
Maximum value of SAR (interpolated) = 2.95 W/kg

Configuration/Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 54.93 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 3.48 W/kg
SAR(1 g) = 2.34 W/kg; SAR(10 g) = 1.53 W/kg
Maximum value of SAR (measured) = 2.96 W/kg



0 dB = 2.96 W/kg = 4.71 dBW/kg

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Date: 2015/8/10

Dipole 1750 MHz_SN:1008_Body

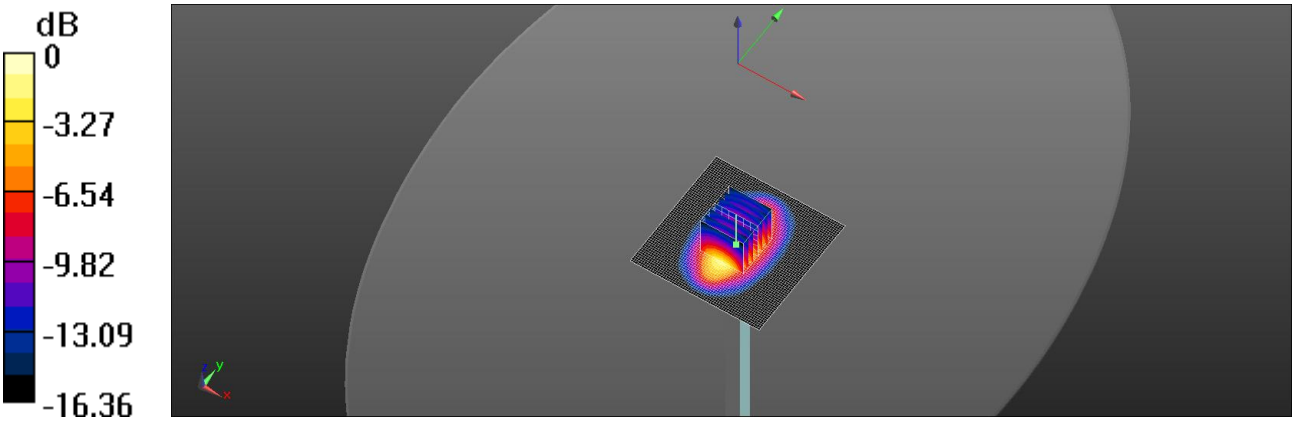
Communication System: CW; Frequency: 1750 MHz2
Medium parameters used: f = 1750 MHz; σ = 1.449 S/m; ε_r = 51.94; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.79, 7.79, 7.79); Calibrated: 2015/4/28;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2014/8/27
- Phantom: Body;
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=15 mm, dy=15 mm
Maximum value of SAR (interpolated) = 13.8 W/kg

Configuration/Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 99.39 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 17.3 W/kg
SAR(1 g) = 9.62 W/kg; SAR(10 g) = 5.1 W/kg
Maximum value of SAR (measured) = 13.7 W/kg



0 dB = 13.7 W/kg = 11.37 dBW/kg

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Date: 2015/8/10

Dipole 1900 MHz_SN:5d027_Body

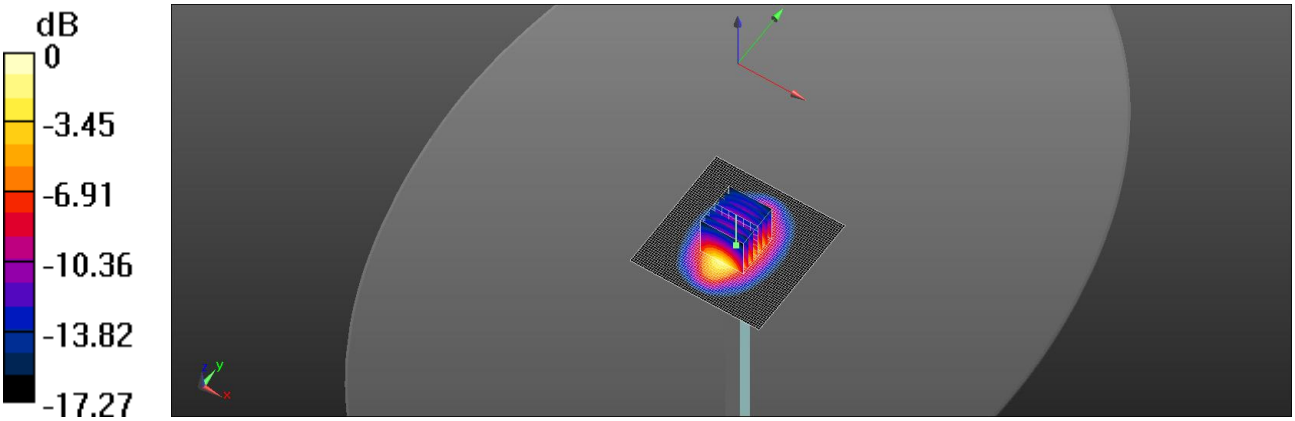
Communication System: CW; Frequency: 1900 MHz
Medium parameters used: f = 1900 MHz; σ = 1.531 S/m; ε_r = 52.921; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.59, 7.59, 7.59); Calibrated: 2015/4/28;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2014/8/27
- Phantom: Body;
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=15 mm, dy=15 mm
Maximum value of SAR (interpolated) = 13.6 W/kg

Configuration/Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 95.88 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 17.3 W/kg
SAR(1 g) = 9.44 W/kg; SAR(10 g) = 4.87 W/kg
Maximum value of SAR (measured) = 13.6 W/kg



0 dB = 13.6 W/kg = 11.34 dBW/kg

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Date: 2015/8/3

Dipole 2450 MHz_SN:727_Body

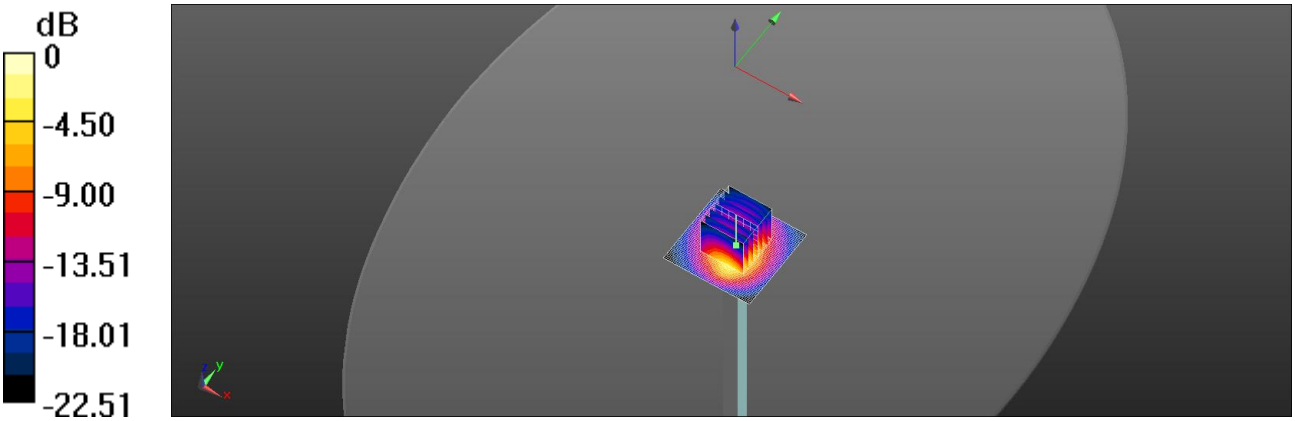
Communication System: CW; Frequency: 2450 MHz
Medium parameters used: f = 2450 MHz; σ = 2.017 S/m; ε_r = 50.978; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.21, 7.21, 7.21); Calibrated: 2015/4/28;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2014/8/27
- Phantom: Body;
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Pin=250mW/Area Scan (51x51x1): Interpolated grid: dx=12 mm, dy=12 mm
Maximum value of SAR (interpolated) = 21.4 W/kg

Configuration/Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 102.8 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 28.4 W/kg
SAR(1 g) = 13.3 W/kg; SAR(10 g) = 6.07 W/kg
Maximum value of SAR (measured) = 20.7 W/kg



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

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Date: 2015/8/4

Dipole 5200 MHz_SN:1023_Body

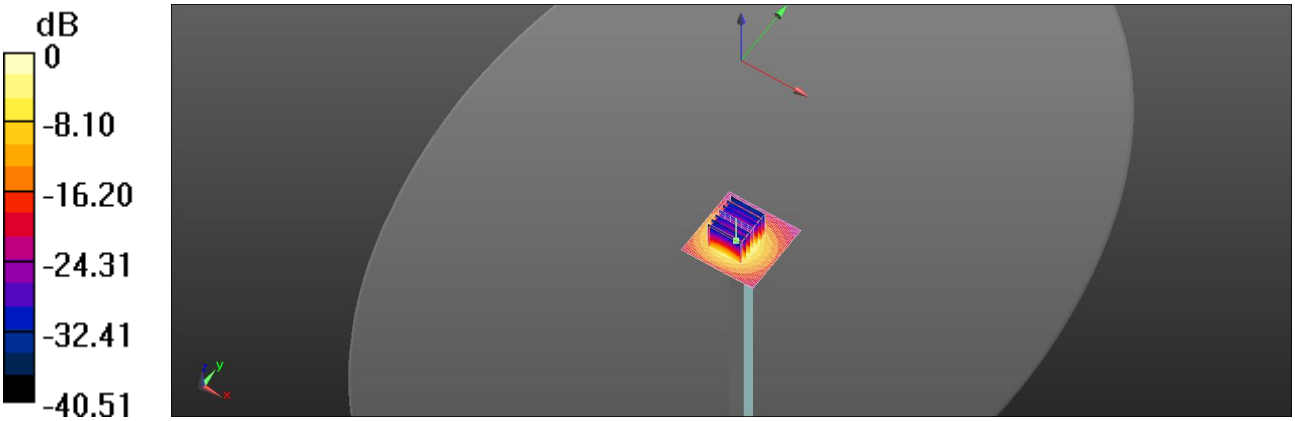
Communication System: CW; Frequency: 5200 MHz
Medium parameters used: f = 5200 MHz; σ = 5.459 S/m; ε_r = 47.907; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(4.7, 4.7, 4.7); Calibrated: 2015/4/28;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2014/8/27
- Phantom: Body;
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Pin=100mW/Area Scan (51x51x1): Interpolated grid: dx=10 mm, dy=10 mm
Maximum value of SAR (interpolated) = 14.2 W/kg

Configuration/Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 52.31 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 30.6 W/kg
SAR(1 g) = 6.96 W/kg; SAR(10 g) = 1.92 W/kg
Maximum value of SAR (measured) = 14.7 W/kg



0 dB = 14.7 W/kg = 11.67 dBW/kg

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Date: 2015/8/5

Dipole 5300 MHz_SN:1023_Body

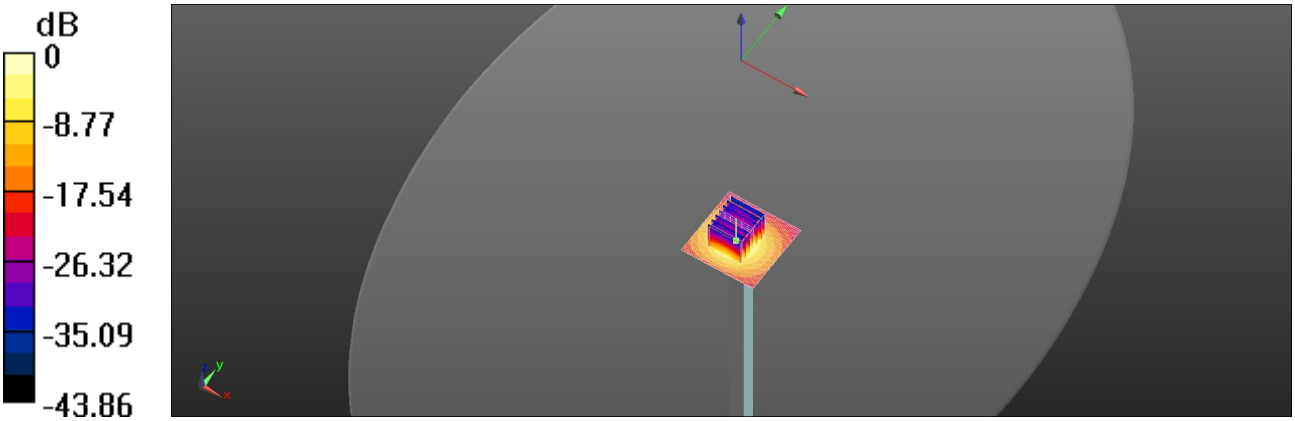
Communication System: CW; Frequency: 5300 MHz
Medium parameters used: f = 5300 MHz; σ = 5.612 S/m; ε_r = 47.588; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(4.7, 4.7, 4.7); Calibrated: 2015/4/28;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2014/8/27
- Phantom: Body;
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Pin=100mW/Area Scan (51x51x1): Interpolated grid: dx=10 mm, dy=10 mm
Maximum value of SAR (interpolated) = 15.6 W/kg

Configuration/Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 54.29 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 35.0 W/kg
SAR(1 g) = 7.6 W/kg; SAR(10 g) = 2.08 W/kg
Maximum value of SAR (measured) = 16.2 W/kg



0 dB = 16.2 W/kg = 12.10 dBW/kg

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Date: 2015/8/6

Dipole 5600 MHz_SN:1023_Body

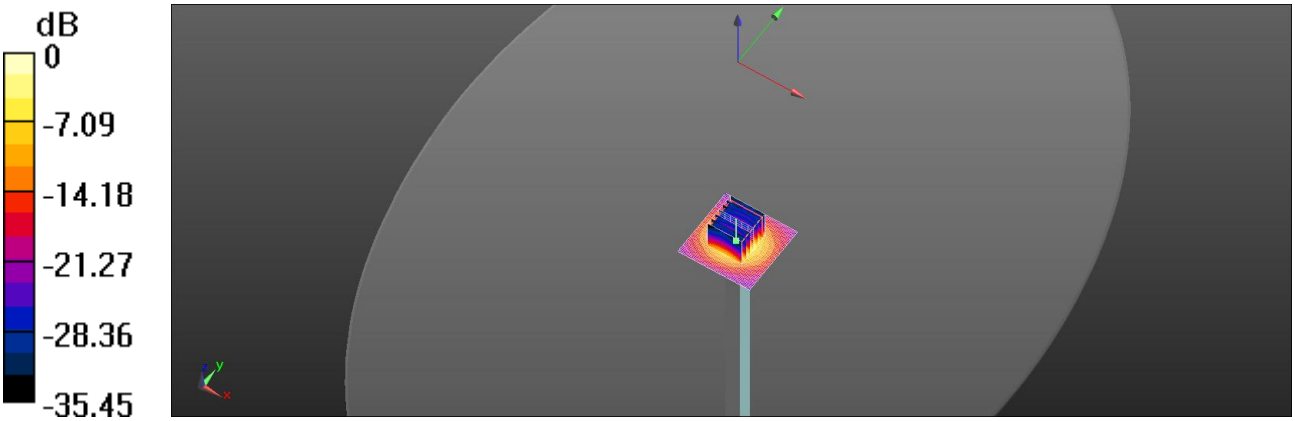
Communication System: CW; Frequency: 5600 MHz
Medium parameters used: f = 5600 MHz; σ = 5.998 S/m; ε_r = 46.582; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(4.03, 4.03, 4.03); Calibrated: 2015/4/28;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2014/8/27
- Phantom: Body;
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Pin=100mW/Area Scan (51x51x1): Interpolated grid: dx=10 mm, dy=10 mm
Maximum value of SAR (interpolated) = 15.8 W/kg

Configuration/Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 54.73 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 35.2 W/kg
SAR(1 g) = 7.66 W/kg; SAR(10 g) = 2.11 W/kg
Maximum value of SAR (measured) = 16.5 W/kg



0 dB = 18.5 W/kg = 12.27 dBW/kg

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Date: 2015/8/7

Dipole 5800 MHz_SN:1023_Body

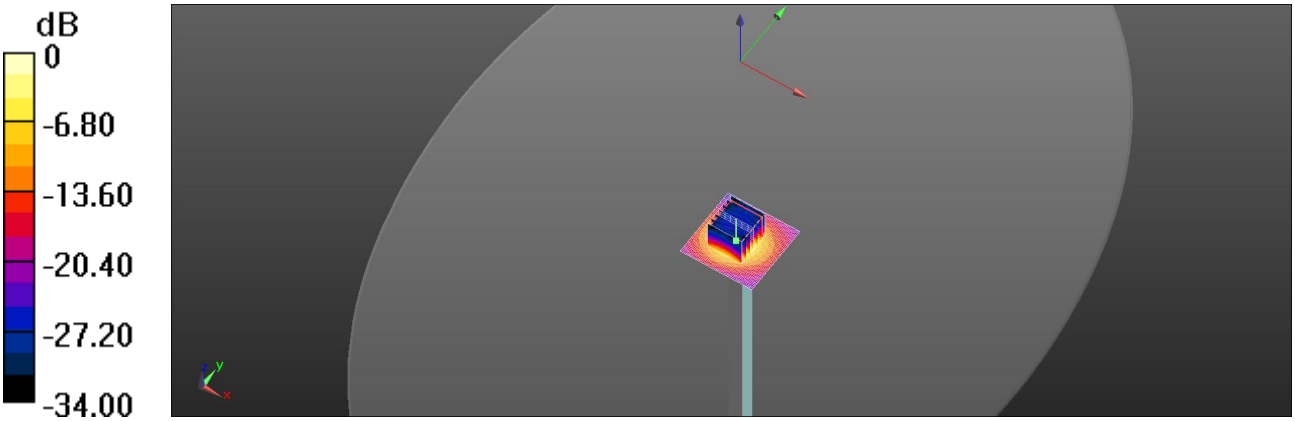
Communication System: CW; Frequency: 5800 MHz
Medium parameters used: f = 5800 MHz; σ = 6.212 S/m; ε_r = 45.988; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(4.33, 4.33, 4.33); Calibrated: 2015/4/28;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2014/8/27
- Phantom: Body;
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

Configuration/Pin=100mW/Area Scan (51x51x1): Interpolated grid: dx=10 mm, dy=10 mm
Maximum value of SAR (interpolated) = 15.6 W/kg

Configuration/Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 55.06 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 33.6 W/kg
SAR(1 g) = 7.5 W/kg; SAR(10 g) = 2.06 W/kg
Maximum value of SAR (measured) = 16.2 W/kg



0 dB = 16.2 W/kg = 12.10 dBW/kg

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7. DAE & Probe Calibration Certificate

Calibration Laboratory of
Schmid & Partner
Engineering AG
Zeughausstrasse 43, 8004 Zurich, Switzerland

S Schweizerischer Kalibrierdienst
C Service suisse d'étalonnage
Servizio svizzero di taratura
S Swiss Calibration Service

Accredited by the Swiss Accreditation Service (SAS)
The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: SCS 108

Client SGS - TW (Auden)

Certificate No: DAE4-856_Aug14

CALIBRATION CERTIFICATE

Object	DAE4 - SD 000 D04 BM - SN: 856
Calibration procedure(s)	QA CAL-06.v26 Calibration procedure for the data acquisition electronics (DAE)
Calibration date:	August 27, 2014

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Keithley Multimeter Type 2001	SN: 0810278	01-Oct-13 (No:13976)	Oct-14
Secondary Standards	**ID #**	**Check Date (in house)**	**Scheduled Check**
Auto DAE Calibration Unit	SE UWS 053 AA 1001	07-Jan-14 (in house check)	In house check: Jan-15
Calibrator Box V2.1	SE UMS 006 AA 1002	07-Jan-14 (in house check)	In house check: Jan-15

	Name	Function	Signature
Calibrated by:	Dominique Steffen	Technician	
Approved by:	Fin Bomholt	Deputy Technical Manager	i.V.

Issued: August 27, 2014

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

Certificate No: DAE4-856_Aug14 Page 1 of 5

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Calibration Laboratory of
Schmid & Partner
Engineering AG
Zeughausstrasse 43, 8004 Zurich, Switzerland

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Accreditation No.: SCS 108

Glossary

DAE	data acquisition electronics
Connector angle	information used in DASY system to align probe sensor X to the robot coordinate system.

Methods Applied and Interpretation of Parameters

- *DC Voltage Measurement:* Calibration Factor assessed for use in DASY system by comparison with a calibrated instrument traceable to national standards. The figure given corresponds to the full scale range of the voltmeter in the respective range.
- *Connector angle*: The angle of the connector is assessed measuring the angle mechanically by a tool inserted. Uncertainty is not required.
- The following parameters as documented in the Appendix contain technical information as a result from the performance test and require no uncertainty.
  - *DC Voltage Measurement Linearity:* Verification of the Linearity at +10% and -10% of the nominal calibration voltage. Influence of offset voltage is included in this measurement.
  - *Common mode sensitivity:* Influence of a positive or negative common mode voltage on the differential measurement.
  - *Channel separation:* Influence of a voltage on the neighbor channels not subject to an input voltage.
  - *AD Converter Values with inputs shorted:* Values on the internal AD converter corresponding to zero input voltage
  - *Input Offset Measurement*: Output voltage and statistical results over a large number of zero voltage measurements.
  - *Input Offset Current:* Typical value for information; Maximum channel input offset current, not considering the input resistance.
  - *Input resistance:* Typical value for information: DAE input resistance at the connector, during internal auto-zeroing and during measurement.
  - *Low Battery Alarm Voltage:* Typical value for information. Below this voltage, a battery alarm signal is generated.
  - *Power consumption:* Typical value for information. Supply currents in various operating modes.

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DC Voltage Measurement

A/D - Converter Resolution nominal

High Range:	1LSB =	6.1μV ,	full range =	-100...+300 mV
Low Range:	1LSB =	61nV ,	full range =	-1.....+3mV

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

Calibration Factors	X	Y	Z
High Range	403.468 ± 0.02% (k=2)	404.581 ± 0.02% (k=2)	403.903 ± 0.02% (k=2)
Low Range	3.97681 ± 1.50% (k=2)	3.97783 ± 1.50% (k=2)	3.97815 ± 1.50% (k=2)

Connector Angle

Connector Angle to be used in DASY system	52.5 ° ± 1 °

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Appendix (Additional assessments outside the scope of SCS108)

1. DC Voltage Linearity

High Range		Reading (µV)	Difference (µV)	Error (%)
Channel X	+ Input	199998.33	0.64	0.00
Channel X	+ Input	19998.90	-2.25	-0.01
Channel X	- Input	-20000.45	0.34	-0.00
Channel Y	+ Input	199998.95	0.96	0.00
Channel Y	+ Input	19997.51	-3.82	-0.02
Channel Y	- Input	-20000.77	0.07	-0.00
Channel Z	+ Input	199997.26	-0.19	-0.00
Channel Z	+ Input	19997.65	-3.57	-0.02
Channel Z	- Input	-20002.47	-1.55	0.01

Low Range		Reading (µV)	Difference (µV)	Error (%)
Channel X	+ Input	2001.05	-0.09	-0.00
Channel X	+ Input	202.34	0.80	0.40
Channel X	- Input	-198.21	0.26	-0.13
Channel Y	+ Input	2001.39	0.26	0.01
Channel Y	+ Input	201.08	-0.36	-0.18
Channel Y	- Input	-199.24	-0.78	0.39
Channel Z	+ Input	2000.92	-0.18	-0.01
Channel Z	+ Input	200.26	-1.22	-0.60
Channel Z	- Input	-199.91	-1.47	0.74

2. Common mode sensitivity

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

	Common mode Input Voltage (mV)	High Range Average Reading (µV)	Low Range Average Reading (µV)
Channel X	200	-14.76	-16.42
	- 200	17.19	15.88
Channel Y	200	-2.17	-2.25
	- 200	0.36	0.01
Channel Z	200	10.27	10.05
	- 200	-13.06	-13.03

3. Channel separation

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

	Input Voltage (mV)	Channel X (µV)	Channel Y (µV)	Channel Z (µV)
Channel X	200	-	2.81	-1.15
Channel Y	200	7.93	-	3.07
Channel Z	200	8.55	5.24	-

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4. AD-Converter Values with inputs shorted

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

	High Range (LSB)	Low Range (LSB)
Channel X	16226	16620
Channel Y	15942	16803
Channel Z	15875	16811

5. Input Offset Measurement

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec
Input 10MΩ

	Average (µV)	min. Offset (µV)	max. Offset (µV)	Std. Deviation (µV)
Channel X	0.72	-0.77	1.69	0.38
Channel Y	-0.24	-1.57	1.49	0.42
Channel Z	-0.98	-2.01	0.07	0.40

6. Input Offset Current

Nominal input circuitry offset current on all channels: <25fA

7. Input Resistance (Typical values for information)

	Zeroing (kOhm)	Measuring (MOhm)
Channel X	200	200
Channel Y	200	200
Channel Z	200	200

8. Low Battery Alarm Voltage (Typical values for information)

Typical values	Alarm Level (VDC)
Supply (+ Vcc)	+7.9
Supply (- Vcc)	-7.6

9. Power Consumption (Typical values for information)

Typical values	Switched off (mA)	Stand by (mA)	Transmitting (mA)
Supply (+ Vcc)	+0.01	+6	+14
Supply (- Vcc)	-0.01	-8	-9

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Accreditation No.: SCS 0108

Client **SGS-TW (Auden)**

Certificate No: EX3-3770_Apr15

CALIBRATION CERTIFICATE

Object	EX3DV4 - SN:3770
Calibration procedure(s)	QA CAL-01.v9, QA CAL-14.v4, QA CAL-23.v5, QA CAL-25.v6 Calibration procedure for dosimetric E-field probes
Calibration date:	April 28, 2015

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID	Cal Date (Certificate No.)	Scheduled Calibration
Power meter E4419B	GB41293874	01-Apr-15 (No. 217-02128)	Mar-16
Power sensor E4412A	MY41498087	01-Apr-15 (No. 217-02128)	Mar-16
Reference 3 dB Attenuator	SN: S5054 (3c)	01-Apr-15 (No. 217-02129)	Mar-16
Reference 20 dB Attenuator	SN: S5277 (20x)	01-Apr-15 (No. 217-02132)	Mar-16
Reference 30 dB Attenuator	SN: S5129 (30b)	01-Apr-15 (No. 217-02133)	Mar-16
Reference Probe ES3DV2	SN: 3013	30-Dec-14 (No. ES3-3013_Dec14)	Dec-15
DAE4	SN: 660	14-Jan-15 (No. DAE4-660_Jan15)	Jan-16
Secondary Standards	ID	Check Date (in house)	Scheduled Check
RF generator HP 8648C	US3642U01700	4-Aug-99 (in house check Apr-13)	In house check: Apr-16
Network Analyzer HP 8753E	US37390585	18-Oct-01 (in house check Oct-14)	In house check: Oct-15

	Name	Function	Signature
Calibrated by:	Jeton Kastrati	Laboratory Technician	
Approved by:	Katja Pokovic	Technical Manager	

Issued: April 30, 2015

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Accreditation No.: SCS 0108

Glossary:

TSL	tissue simulating liquid
NORMx,y,z	sensitivity in free space
ConvF	sensitivity in TSL / NORMx,y,z
DCP	diode compression point
CF	crest factor (1/duty_cycle) of the RF signal
A, B, C, D	modulation dependent linearization parameters
Polarization φ	φ rotation around probe axis
Polarization ϑ	ϑ rotation around an axis that is in the plane normal to probe axis (at measurement center), i.e., ϑ = 0 is normal to probe axis
Connector Angle	information used in DASY system to align probe sensor X to the robot coordinate system

Calibration is Performed According to the Following Standards:

a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
b) IEC 62209-1, "Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)", February 2005

Methods Applied and Interpretation of Parameters:

- *NORMx,y,z:* Assessed for E-field polarization ϑ = 0 (f ≤ 900 MHz in TEM-cell; f > 1800 MHz: R22 waveguide). NORMx,y,z are only intermediate values, i.e., the uncertainties of NORMx,y,z does not affect the E^2-field uncertainty inside TSL (see below *ConvF*).
- *NORM(f)x,y,z = NORMx,y,z * frequency_response* (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of *ConvF*.
- *DCPx,y,z:* DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal (no uncertainty required). DCP does not depend on frequency nor media.
- *PAR:* PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics
- *Ax,y,z; Bx,y,z; Cx,y,z; Dx,y,z; VRx,y,z*: *A, B, C, D* are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. *VR* is the maximum calibration range expressed in RMS voltage across the diode.
- *ConvF and Boundary Effect Parameters:* Assessed in flat phantom using E-field (or Temperature Transfer Standard for f ≤ 800 MHz) and inside waveguide using analytical field distributions based on power measurements for f > 800 MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to *NORMx,y,z * ConvF* whereby the uncertainty corresponds to that given for *ConvF*. A frequency dependent *ConvF* is used in DASY version 4.4 and higher which allows extending the validity from ± 50 MHz to ± 100 MHz.
- *Spherical isotropy (3D deviation from isotropy)*: in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- *Sensor Offset*: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
- *Connector Angle*: The angle is assessed using the information gained by determining the *NORMx* (no uncertainty required).

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Probe EX3DV4

SN:3770

Manufactured: July 6, 2010
Calibrated: April 28, 2015

Calibrated for DASY/EASY Systems
(Note: non-compatible with DASY2 system!)

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DASY/EASY - Parameters of Probe: EX3DV4 - SN:3770

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm (μV/(V/m)^2)[A]	0.31	0.62	0.40	± 10.1 %
DCP (mV)[B]	105.3	100.7	101.6	

Modulation Calibration Parameters

UID	Communication System Name		A dB	B dB√μV	C	D dB	VR mV	Unc[E] (k=2)
0	CW	X	0.0	0.0	1.0	0.00	145.1	±3.8 %
		Y	0.0	0.0	1.0		129.4	
		Z	0.0	0.0	1.0		138.4	

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

[A] The uncertainties of NormX,Y,Z do not affect the E^2-field uncertainty inside TSL (see Pages 5 and 6).
[B] Numerical linearization parameter: uncertainty not required.
[E] Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

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DASY/EASY - Parameters of Probe: EX3DV4 - SN:3770

Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) [C]	Relative Permittivity [F]	Conductivity (S/m) [F]	ConvF X	ConvF Y	ConvF Z	Alpha [G]	Depth [G] (mm)	Unct. (k=2)
750	41.9	0.89	9.53	9.53	9.53	0.26	1.28	± 12.0 %
835	41.5	0.90	9.13	9.13	9.13	0.21	1.53	± 12.0 %
900	41.5	0.97	8.89	8.89	8.89	0.23	1.38	± 12.0 %
1450	40.5	1.20	8.19	8.19	8.19	0.18	1.59	± 12.0 %
1750	40.1	1.37	8.04	8.04	8.04	0.38	0.80	± 12.0 %
1900	40.0	1.40	7.82	7.82	7.82	0.36	0.80	± 12.0 %
2000	40.0	1.40	7.81	7.81	7.81	0.36	0.80	± 12.0 %
2300	39.5	1.67	7.47	7.47	7.47	0.27	0.96	± 12.0 %
2450	39.2	1.80	7.16	7.16	7.16	0.34	0.80	± 12.0 %
2600	39.0	1.96	6.85	6.85	6.85	0.34	0.92	± 12.0 %
5250	35.9	4.71	5.27	5.27	5.27	0.30	1.80	± 13.1 %
5600	35.5	5.07	4.65	4.65	4.65	0.35	1.80	± 13.1 %
5750	35.4	5.22	4.92	4.92	4.92	0.40	1.80	± 13.1 %

[C] Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Above 5 GHz frequency validity can be extended to ± 110 MHz.
[F] At frequencies below 3 GHz, the validity of tissue parameters (ε and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ε and σ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.
[G] Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

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EX3DV4– SN:3770 April 28, 2015

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3770

Calibration Parameter Determined in Body Tissue Simulating Media

f (MHz) [C]	Relative Permittivity [F]	Conductivity (S/m) [F]	ConvF X	ConvF Y	ConvF Z	Alpha [G]	Depth [G] (mm)	Unct. (k=2)
750	55.5	0.96	9.30	9.30	9.30	0.25	1.38	± 12.0 %
835	55.2	0.97	9.17	9.17	9.17	0.34	1.05	± 12.0 %
900	55.0	1.05	8.91	8.91	8.91	0.30	1.20	± 12.0 %
1450	54.0	1.30	8.12	8.12	8.12	0.18	1.62	± 12.0 %
1750	53.4	1.49	7.79	7.79	7.79	0.44	0.80	± 12.0 %
1900	53.3	1.52	7.59	7.59	7.59	0.44	0.80	± 12.0 %
2000	53.3	1.52	7.73	7.73	7.73	0.42	0.80	± 12.0 %
2300	52.9	1.81	7.32	7.32	7.32	0.41	0.80	± 12.0 %
2450	52.7	1.95	7.21	7.21	7.21	0.31	0.80	± 12.0 %
2600	52.5	2.16	6.96	6.96	6.96	0.27	0.80	± 12.0 %
5250	48.9	5.36	4.70	4.70	4.70	0.35	1.90	± 13.1 %
5600	48.5	5.77	4.03	4.03	4.03	0.45	1.90	± 13.1 %
5750	48.3	5.94	4.33	4.33	4.33	0.50	1.90	± 13.1 %

[C] Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Above 5 GHz frequency validity can be extended to ± 110 MHz.
[F] At frequencies below 3 GHz, the validity of tissue parameters (ε and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ε and σ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.
[G] Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

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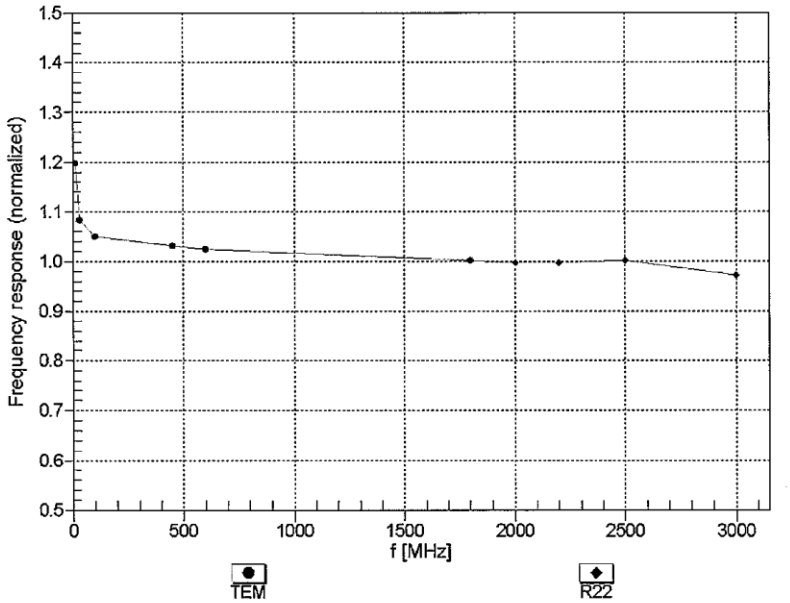
Frequency Response of E-Field

(TEM-Cell:ifi110 EXX, Waveguide: R22)



Uncertainty of Frequency Response of E-field: ± 6.3% (k=2)

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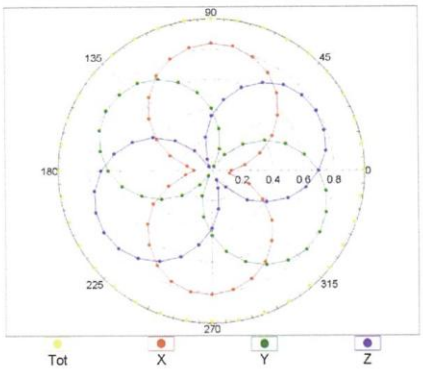
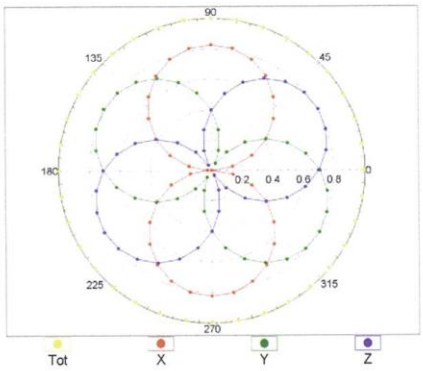
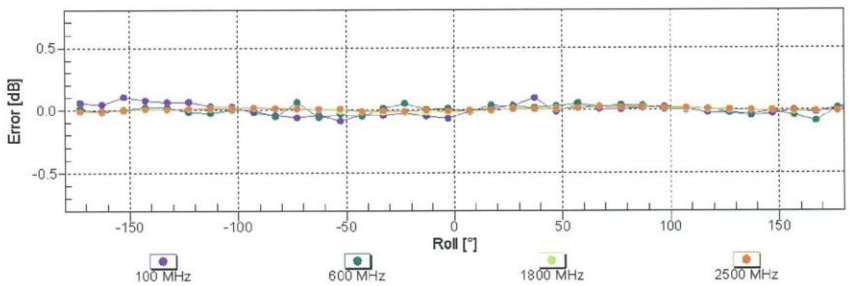
Receiving Pattern (ϕ), ϑ = 0°

f=600 MHz,TEM



f=1800 MHz,R22





Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)

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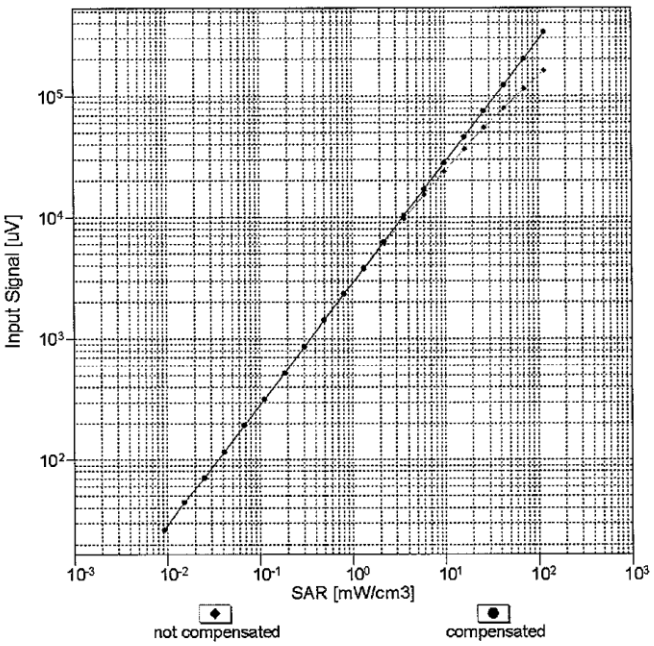
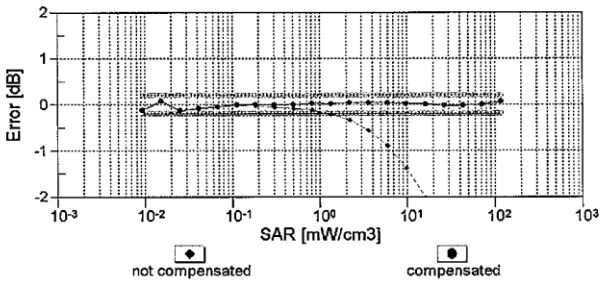
Dynamic Range f(SAR_{head})
(TEM cell , f_{eval}= 1900 MHz)





Uncertainty of Linearity Assessment: ± 0.6% (k=2)

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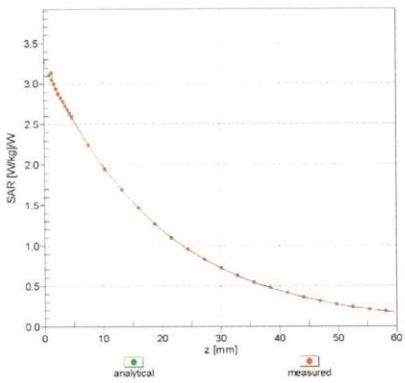
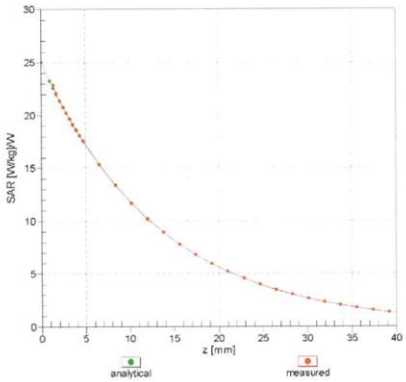
Conversion Factor Assessment

f = 900 MHz,WGLS R9 (H_convF)

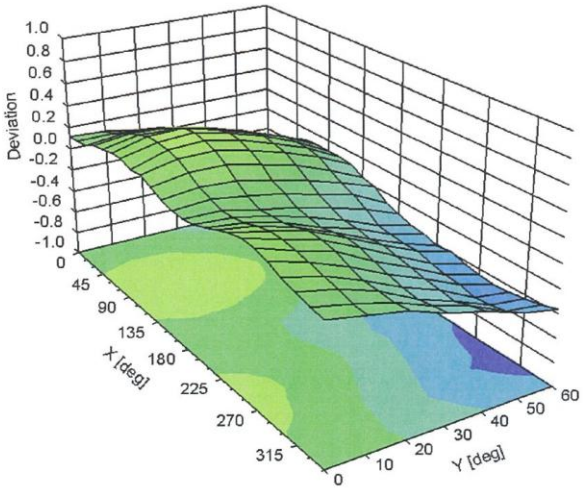


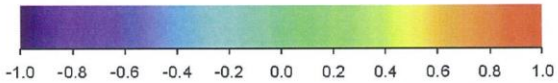
f = 1750 MHz,WGLS R22 (H_convF)



Deviation from Isotropy in Liquid

Error (ϕ, ϑ), f = 900 MHz





Uncertainty of Spherical Isotropy Assessment: ± 2.6% (k=2)

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DASY/EASY - Parameters of Probe: EX3DV4 - SN:3770

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	-32.7
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	9 mm
Tip Diameter	2.5 mm
Probe Tip to Sensor X Calibration Point	1 mm
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	1 mm
Recommended Measurement Distance from Surface	1.4 mm

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