

SAR TEST REPORT



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

Equipment Under Test Convertible PC
Brand Name HP
Model No. TPN-C137
Company Name Fibocom Wireless Inc.
Company Address 5/F, Tower A, Technology Building II, 1057 Nanhai Avenue
Shenzhen, 518067 China
Standards IEEE/ANSI C95.1-1992, IEEE 1528-2013,
KDB616217D04v01r02, KDB865664D01v01r04,
KDB865664D02v01r02, KDB447498D01v06,
KDB248227D01v02r02, KDB941225D01v03r01,
KDB941225D05v02r05, KDB941225D05Av01r02
FCC ID ZMOL860GL
Date of Receipt Dec. 06, 2019
Date of Test(s) Dec. 12, 2019 ~ Dec. 19, 2019
Date of Issue Jan. 09, 2020

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

Remarks:

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

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Signed on behalf of SGS

Clerk / Ruby Ou	Asst. Supervisor / Afu Chen	Asst. Manager / John Yeh

Date: Jan. 09, 2020

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Revision History

Revision	Description	Issue Date
Rev.00	Initial creation of document	Dec. 31, 2019
Rev.01	Modify section 1.6	Jan. 09, 2020

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1. General Information

1.1 Testing Laboratory

SGS Taiwan Ltd. Electronics & Communication Laboratory	
1F, No. 8, Alley 15, Lane 120, Sec. 1, NeiHu Rd., NeiHu Dist., Taipei City, Taiwan, 11493.	
Tel	+886-2-2299-3279
Fax	+886-2-2298-0488
Internet	http://www.tw.sgs.com/

1.2 Details of Applicant

Company Name	Fibocom Wireless Inc.
Company Address	5/F, Tower A, Technology Building II, 1057 Nanhai Avenue Shenzhen, 518067 China

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1.3 Description of EUT

Equipment Under Test	Convertible PC		
Brand Name	HP		
Model No.	TPN-C137		
FCC ID	ZMOL860GL		
Integrated Module	WLAN	Brand Name : Intel Model Name : AX200D2WL	
	WWAN	Brand Name : Fibocom Model Name : L860-GL	
Mode of Operation	<input checked="" type="checkbox"/> WLAN802.11 a/b/g/n/ac/ax(20M/40M/80M/160M) <input checked="" type="checkbox"/> Bluetooth <input checked="" type="checkbox"/> WCDMA <input checked="" type="checkbox"/> HSDPA <input checked="" type="checkbox"/> HSUPA <input checked="" type="checkbox"/> HSPA+ <input checked="" type="checkbox"/> DC-HSDPA <input checked="" type="checkbox"/> LTE FDD <input checked="" type="checkbox"/> LTE TDD		
Duty Cycle	WLAN802.11 a/b/g/n/ac/ax(20M/40M/80M/160M)	1	
	Bluetooth	1	
	WCDMA	1	
	LTE FDD	1	
	LTE TDD	0.633	
TX Frequency Range (MHz)	WCDMA Band II	1850 — 1910	
	WCDMA Band IV	1710 — 1755	
	WCDMA Band V	824 — 849	
	LTE FDD Band 2	1850 — 1910	
	LTE FDD Band 4	1710 — 1755	
	LTE FDD Band 5	824 — 849	
	LTE FDD Band 7	2500 — 2570	
	LTE FDD Band 12	699 — 716	
	LTE FDD Band 13	777 — 787	
	LTE FDD Band 14	788 — 798	

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TX Frequency Range (MHz)	LTE FDD Band 17	704	—	716
	LTE FDD Band 25	1850	—	1915
	LTE FDD Band 26	814	—	849
	LTE FDD Band 30	2305	—	2315
	LTE TDD Band 38	2570	—	2620
	LTE TDD Band 41	2496	—	2690
	LTE FDD Band 66	1710	—	1780
	WLAN802.11 b/g/n/ax(20M)	2412	—	2472
	WLAN802.11 n/ax(40M)	2422	—	2462
	WLAN802.11 a/n/ac/ax(20M) 5.2G	5180	—	5240
	WLAN802.11 n/ac/ax(40M) 5.2G	5190	—	5230
	WLAN802.11 ac/ax(80M) 5.2G	5210		
	WLAN802.11 ac/ax(160M) 5.2G	5250		
	WLAN802.11 a/n/ac/ax(20M) 5.3G	5260	—	5320
	WLAN802.11 n/ac/ax(40M) 5.3G	5270	—	5310
	WLAN802.11 ac/ax(80M) 5.3G	5290		
	WLAN802.11 a/n/ac/ax(20M) 5.6G	5500	—	5720
	WLAN802.11 n/ac/ax(40M) 5.6G	5510	—	5710
	WLAN802.11 ac/ax(80M) 5.6G	5530	—	5690
	WLAN802.11 ac/ax(160M) 5.6G	5570		
	WLAN802.11 a/n/ac/ax(20M) 5.8G	5745	—	5825
	WLAN802.11 n/ac/ax(40M) 5.8G	5755	—	5795
	WLAN802.11 ac/ax(80M) 5.8G	5775		
	Bluetooth	2402	—	2480
Channel Number (ARFCN)	WCDMA Band II	9262	—	9538
	WCDMA Band IV	1312	—	1513
	WCDMA Band V	4132	—	4233
	LTE FDD Band 2	18607	—	19193

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Channel Number (ARFCN)	LTE FDD Band 4	19957	—	20393
	LTE FDD Band 5	20407	—	20643
	LTE FDD Band 7	20775	—	21425
	LTE FDD Band 12	23017	—	23173
	LTE FDD Band 13	23205	—	23255
	LTE FDD Band 14	23305	—	23355
	LTE FDD Band 17	23755	—	23825
	LTE FDD Band 25	26047	—	26683
	LTE FDD Band 26	26697	—	27033
	LTE FDD Band 30	27685	—	27735
	LTE TDD Band 38	37775	—	38225
	LTE TDD Band 41	39675	—	41565
	LTE FDD Band 66	131979	—	132665
	WLAN802.11 b/g/n/ax(20M)	1	—	13
	WLAN802.11 n/ax(40M)	3	—	11
	WLAN802.11 a/n/ac/ax(20M) 5.2G	36	—	48
	WLAN802.11 n/ac/ax(40M) 5.2G	38	—	46
	WLAN802.11 ac/ax(80M) 5.2G	42		
	WLAN802.11 ac/ax(160M) 5.2G	50		
	WLAN802.11 a/n/ac/ax(20M) 5.3G	52	—	64
	WLAN802.11 n/ac/ax(40M) 5.3G	54	—	62
	WLAN802.11 ac/ax(80M) 5.3G	58		
	WLAN802.11 a/n/ac/ax(20M) 5.6G	100	—	144
	WLAN802.11 n/ac/ax(40M) 5.6G	102	—	142
	WLAN802.11 ac/ax(80M) 5.6G	106	—	138
	WLAN802.11 ac/ax(160M) 5.6G	114		
	WLAN802.11 a/n/ac/ax(20M) 5.8G	149	—	165
	WLAN802.11 n/ac/ax(40M) 5.8G	151	—	159
	WLAN802.11 ac/ax(80M) 5.8G	155		
	Bluetooth	0	—	78

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Antenna Information

Tablet mode										
Vendor	Advanced Wireless & Antenna Inc.									
Antenna	Tx1 (PIFA)					Tx2 (PIFA)				
Part Number	AML6Y-200004(DC330024W20)					AML6Y-200004(DC330024W20)				
Frequency	2400-2500	5150-5250	5250-5350	5470-5725	5725-5850	2400-2500	5150-5250	5250-5350	5470-5725	5725-5850
Gain (dBi)	-5.59	-0.06	0.65	-1.12	-1.03	-1.28	-1.53	-1.53	0.34	-0.63
Notebook mode mode										
Vendor	Advanced Wireless & Antenna Inc.									
Antenna	Tx1 (PIFA)					Tx2 (PIFA)				
Part Number	AML6Y-200004(DC330024W20)					AML6Y-200004(DC330024W20)				
Frequency	2400-2500	5150-5250	5250-5350	5470-5725	5725-5850	2400-2500	5150-5250	5250-5350	5470-5725	5725-5850
Gain (dBi)	-4.79	-1.38	0.16	-2.02	-2.35	-6.65	-6.24	-4.55	-2.86	-1.82
Tablet mode										
Vendor	Advanced Wireless & Antenna Inc.									
Antenna	Main (PIFA)									
Part Number	AML6Y-10057(DC330024W00)									
Frequency	699~716	777~798	814~849	1710~1780	1850~1915	2305~2315	2496~2690			
Gain (dBi)	-11.68	-12.87	-14.01	-3.75	-5.17	-3.09	-7.49			
Notebook mode mode										
Vendor	Advanced Wireless & Antenna Inc.									
Antenna	Main (PIFA)									
Part Number	AML6Y-10057(DC330024W00)									
Frequency	699~716	777~798	814~849	1710~1780	1850~1915	2305~2315	2496~2690			
Gain (dBi)	-1.87	-1.31	-3.02	2.39	2.48	2.33	-0.81			

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Tablet mode

Max. SAR (1 g) (Unit: W/Kg)				
Band	Measured	Reported	Channel	Position
WCDMA Band II	0.18	0.24	9262	Right side
WCDMA Band IV	0.57	0.72	1513	Right side
WCDMA Band V	0.04	0.05	4132	Right side
LTE FDD Band 2	0.17	0.20	18700	Right side
LTE FDD Band 4	0.51	0.64	20300	Right side
LTE FDD Band 5	0.04	0.05	20525	Right side
LTE FDD Band 7	0.31	0.35	21100	Top side
LTE FDD Band 12	0.04	0.05	23130	Top side
LTE FDD Band 13	0.03	0.04	23230	Right side
LTE FDD Band 14	0.03	0.04	23330	Right side
LTE FDD Band 17	0.04	0.05	23780	Top side
LTE FDD Band 25	0.17	0.21	26140	Right side
LTE FDD Band 26	0.04	0.06	26965	Right side
LTE FDD Band 30	0.23	0.30	27710	Top side
LTE TDD Band 38	0.19	0.23	37850	Top side
LTE TDD Band 41	0.17	0.20	39750	Top side
LTE FDD Band 66	0.55	0.71	132572	Right side

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Tablet mode (SISO)

Max. SAR (1g) (Unit: W/Kg)					
Antenna	Band	Measured	Reported	Channel	Position
Tx1	WLAN 802.11b	1.16	1.17	2	Top side
	WLAN 802.11ac(80M) 5.2G	1.10	1.11	42	Top side
	WLAN 802.11ac(80M) 5.3G	1.03	1.04	58	Top side
	WLAN 802.11ac(160) 5.6 G	0.52	0.52	114	Top side
	WLAN 802.11ac(80M) 5.8G	0.61	0.62	155	Top side
Tx2	WLAN 802.11b	1.17	1.17	1	Top side
	Bluetooth(GFSK)	0.18	0.27	78	Top side
	WLAN 802.11ac(80M) 5.2G	1.19	1.20	42	Top side
	WLAN 802.11ac(80M) 5.3G	1.01	1.02	58	Top side
	WLAN 802.11ac(160) 5.6 G	0.91	0.91	114	Top side
	WLAN 802.11ac(80M) 5.8G	1.18	1.18	155	Top side

Notebook mode (SISO)

Max. SAR (1g) (Unit: W/Kg)					
Antenna	Band	Measured	Reported	Channel	Position
Tx1	WLAN 802.11b	0.92	0.93	2	Bottom side
	WLAN 802.11n(40M) 5.2G	0.92	0.92	46	Bottom side
	WLAN 802.11n(40M) 5.3G	1.05	1.06	54	Bottom side
	WLAN 802.11ac(80M) 5.6G	0.48	0.48	106	Bottom side
	WLAN 802.11ac(80M) 5.8G	0.45	0.45	155	Bottom side
Tx2	WLAN 802.11b	0.85	0.85	6	Bottom side
	Bluetooth(GFSK)	0.08	0.12	78	Bottom side
	WLAN 802.11ac(80M) 5.2G	0.93	0.94	42	Bottom side
	WLAN 802.11ac(80M) 5.3G	0.77	0.78	58	Bottom side
	WLAN 802.11ac(80M) 5.6G	0.73	0.73	106	Bottom side
	WLAN 802.11ac(80M) 5.8G	0.81	0.81	155	Bottom side

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WCDMA Band II / Band IV / Band V - HSDPA / HSUPA / HSPA+ / DC-HSDPA conducted power table:

Unit: dBm

Band		WCDMA II		
TX Channel		9262	9400	9538
Frequency (MHz)		1852.4	1880	1907.6
Max. Rated Avg. Power+Max. Tolerance (dBm)		24.50		
3GPP Rel 99	RMC 12.2Kbps	23.33	23.53	23.34
3GPP Rel 5	HSDPA Subtest-1	23.28	23.49	23.19
	HSDPA Subtest-2	23.28	23.40	23.16
	HSDPA Subtest-3	22.77	22.82	22.64
	HSDPA Subtest-4	22.63	22.94	22.76
3GPP Rel 6	HSUPA Subtest-1	23.14	23.41	23.26
	HSUPA Subtest-2	21.28	21.43	21.27
	HSUPA Subtest-3	22.25	22.45	22.19
	HSUPA Subtest-4	21.30	21.39	21.22
	HSUPA Subtest-5	23.12	23.39	23.29
3GPP Rel 7	HSPA+	23.13	23.33	23.13
3GPP Rel 8	DC-HSDPA Subtest-1	23.22	23.51	23.22
	DC-HSDPA Subtest-2	23.25	23.44	23.29
	DC-HSDPA Subtest-3	22.73	22.92	22.75
	DC-HSDPA Subtest-4	22.67	22.87	22.66

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Band		WCDMA IV		
TX Channel		1312	1412	1513
Frequency (MHz)		1712.4	1732.4	1752.6
Max. Rated Avg. Power+Max. Tolerance (dBm)		24.50		
3GPP Rel 99	RMC 12.2Kbps	23.81	23.74	23.47
3GPP Rel 5	HSDPA Subtest-1	23.74	23.67	23.37
	HSDPA Subtest-2	23.63	23.54	23.37
	HSDPA Subtest-3	23.16	23.06	22.76
	HSDPA Subtest-4	23.18	23.20	22.93
3GPP Rel 6	HSUPA Subtest-1	23.78	23.61	23.42
	HSUPA Subtest-2	21.73	21.56	21.42
	HSUPA Subtest-3	22.69	22.72	22.40
	HSUPA Subtest-4	21.69	21.71	21.34
	HSUPA Subtest-5	23.79	23.55	23.36
3GPP Rel 7	HSPA+	23.62	23.60	23.31
3GPP Rel 8	DC-HSDPA Subtest-1	23.69	23.65	23.37
	DC-HSDPA Subtest-2	23.72	23.63	23.36
	DC-HSDPA Subtest-3	23.23	23.08	22.94
	DC-HSDPA Subtest-4	23.18	23.14	22.94
Band		WCDMA V		
TX Channel		4132	4183	4233
Frequency (MHz)		826.4	836.6	846.6
Max. Rated Avg. Power+Max. Tolerance (dBm)		24.50		
3GPP Rel 99	RMC 12.2Kbps	23.41	23.38	23.35
3GPP Rel 5	HSDPA Subtest-1	23.28	23.19	23.24
	HSDPA Subtest-2	23.27	23.31	23.19
	HSDPA Subtest-3	22.75	22.67	22.81
	HSDPA Subtest-4	22.79	22.70	22.69
3GPP Rel 6	HSUPA Subtest-1	23.36	23.31	23.16
	HSUPA Subtest-2	21.37	21.24	21.32
	HSUPA Subtest-3	22.28	22.33	22.16
	HSUPA Subtest-4	21.28	21.20	21.15
	HSUPA Subtest-5	23.24	23.21	23.31
3GPP Rel 7	HSPA+	23.25	23.30	23.14
3GPP Rel 8	DC-HSDPA Subtest-1	23.30	23.31	23.33
	DC-HSDPA Subtest-2	23.37	23.17	23.26
	DC-HSDPA Subtest-3	22.85	22.75	22.64
	DC-HSDPA Subtest-4	22.88	22.79	22.82

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LTE FDD Band 2 / Band 4 / Band 5 / Band 7 / Band 12 / Band 13 / Band 14 / Band 17 / Band 25 / Band 26 / Band 30 / Band 66 power table:

FDD Band 2								
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	23.25	24	0
				1880	18900	23.27	24	0
				1900	19100	23.18	24	0
			50	1860	18700	23.16	24	0
				1880	18900	23.21	24	0
				1900	19100	23.17	24	0
			99	1860	18700	23.23	24	0
				1880	18900	23.07	24	0
				1900	19100	23.15	24	0
		50 RB	0	1860	18700	22.22	23	0-1
				1880	18900	22.28	23	0-1
				1900	19100	22.15	23	0-1
			25	1860	18700	22.16	23	0-1
				1880	18900	22.22	23	0-1
				1900	19100	22.17	23	0-1
			50	1860	18700	22.14	23	0-1
				1880	18900	22.14	23	0-1
				1900	19100	22.13	23	0-1
		100RB		1860	18700	22.22	23	0-1
				1880	18900	22.28	23	0-1
				1900	19100	22.24	23	0-1
	16-QAM	1 RB	0	1860	18700	22.45	23	0-1
				1880	18900	22.47	23	0-1
				1900	19100	22.41	23	0-1
			50	1860	18700	22.47	23	0-1
				1880	18900	22.39	23	0-1
				1900	19100	22.42	23	0-1
			99	1860	18700	22.40	23	0-1
				1880	18900	22.36	23	0-1
				1900	19100	22.35	23	0-1
		50 RB	0	1860	18700	21.16	22	0-2
				1880	18900	21.20	22	0-2
				1900	19100	21.05	22	0-2
			25	1860	18700	21.09	22	0-2
				1880	18900	21.12	22	0-2
				1900	19100	21.06	22	0-2
			50	1860	18700	21.05	22	0-2
				1880	18900	21.07	22	0-2
				1900	19100	21.07	22	0-2
		100RB		1860	18700	21.12	22	0-2
				1880	18900	21.19	22	0-2
				1900	19100	21.14	22	0-2

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FDD Band 2								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
20	64-QAM	1 RB	0	1860	18700	21.82	22	0-2
				1880	18900	21.89	22	0-2
				1900	19100	21.86	22	0-2
			50	1860	18700	21.90	22	0-2
				1880	18900	21.85	22	0-2
				1900	19100	21.89	22	0-2
			99	1860	18700	21.90	22	0-2
				1880	18900	21.82	22	0-2
				1900	19100	21.81	22	0-2
		50 RB	0	1860	18700	20.90	21	0-3
				1880	18900	20.85	21	0-3
				1900	19100	20.85	21	0-3
			25	1860	18700	20.98	21	0-3
				1880	18900	20.97	21	0-3
				1900	19100	20.90	21	0-3
			50	1860	18700	20.82	21	0-3
				1880	18900	20.92	21	0-3
				1900	19100	20.81	21	0-3
		100RB		1860	18700	20.82	21	0-3
				1880	18900	20.85	21	0-3
				1900	19100	20.85	21	0-3

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FDD Band 2									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted pow er (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allow ed per 3GPP(dB)	
15	QPSK	1 RB	0	1857.5	18675	23.65	24	0	
				1880	18900	23.66	24	0	
				1902.5	19125	23.56	24	0	
			36	1857.5	18675	23.73	24	0	
				1880	18900	23.60	24	0	
				1902.5	19125	23.61	24	0	
			74	1857.5	18675	23.80	24	0	
				1880	18900	23.50	24	0	
				1902.5	19125	23.69	24	0	
		36 RB	0	1857.5	18675	22.61	23	0-1	
				1880	18900	22.78	23	0-1	
				1902.5	19125	22.63	23	0-1	
			18	1857.5	18675	22.73	23	0-1	
				1880	18900	22.76	23	0-1	
				1902.5	19125	22.63	23	0-1	
			37	1857.5	18675	22.66	23	0-1	
				1880	18900	22.65	23	0-1	
				1902.5	19125	22.69	23	0-1	
		75RB			1857.5	18675	22.64	23	0-1
					1880	18900	22.67	23	0-1
					1902.5	19125	22.79	23	0-1
		16-QAM	1 RB	0	1857.5	18675	22.30	23	0-1
					1880	18900	22.26	23	0-1
					1902.5	19125	22.29	23	0-1
				36	1857.5	18675	22.28	23	0-1
					1880	18900	22.20	23	0-1
					1902.5	19125	22.36	23	0-1
	74			1857.5	18675	22.38	23	0-1	
				1880	18900	22.33	23	0-1	
				1902.5	19125	22.33	23	0-1	
	36 RB			0	1857.5	18675	21.01	22	0-2
					1880	18900	21.14	22	0-2
					1902.5	19125	20.92	22	0-2
				18	1857.5	18675	20.90	22	0-2
					1880	18900	21.08	22	0-2
					1902.5	19125	20.94	22	0-2
			37	1857.5	18675	20.94	22	0-2	
				1880	18900	20.89	22	0-2	
				1902.5	19125	20.89	22	0-2	
	75RB			1857.5	18675	21.00	22	0-2	
				1880	18900	21.03	22	0-2	
				1902.5	19125	21.10	22	0-2	

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FDD Band 2								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
15	64-QAM	1 RB	0	1857.5	18675	21.75	22	0-2
				1880	18900	21.71	22	0-2
				1902.5	19125	21.79	22	0-2
			36	1857.5	18675	21.78	22	0-2
				1880	18900	21.79	22	0-2
				1902.5	19125	21.79	22	0-2
			74	1857.5	18675	21.77	22	0-2
				1880	18900	21.68	22	0-2
				1902.5	19125	21.72	22	0-2
		36 RB	0	1857.5	18675	20.77	21	0-3
				1880	18900	20.67	21	0-3
				1902.5	19125	20.78	21	0-3
			18	1857.5	18675	20.96	21	0-3
				1880	18900	20.78	21	0-3
				1902.5	19125	20.84	21	0-3
			37	1857.5	18675	20.71	21	0-3
				1880	18900	20.74	21	0-3
				1902.5	19125	20.73	21	0-3
		75RB		1857.5	18675	20.76	21	0-3
				1880	18900	20.74	21	0-3
				1902.5	19125	20.76	21	0-3

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FDD Band 2									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted pow er (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allow ed per 3GPP(dB)	
10	QPSK	1 RB	0	1855	18650	23.59	24	0	
				1880	18900	23.51	24	0	
				1905	19150	23.39	24	0	
			25	1855	18650	23.57	24	0	
				1880	18900	23.54	24	0	
				1905	19150	23.55	24	0	
			49	1855	18650	23.73	24	0	
				1880	18900	23.40	24	0	
				1905	19150	23.65	24	0	
		25 RB	0	1855	18650	22.56	23	0-1	
				1880	18900	22.75	23	0-1	
				1905	19150	22.48	23	0-1	
			12	1855	18650	22.68	23	0-1	
				1880	18900	22.71	23	0-1	
				1905	19150	22.47	23	0-1	
			25	1855	18650	22.62	23	0-1	
				1880	18900	22.60	23	0-1	
				1905	19150	22.53	23	0-1	
		50RB			1855	18650	22.44	23	0-1
					1880	18900	22.58	23	0-1
					1905	19150	22.73	23	0-1
		16-QAM	1 RB	0	1855	18650	22.21	23	0-1
					1880	18900	22.08	23	0-1
					1905	19150	22.16	23	0-1
				25	1855	18650	22.17	23	0-1
					1880	18900	22.12	23	0-1
					1905	19150	22.17	23	0-1
	49			1855	18650	22.20	23	0-1	
				1880	18900	22.29	23	0-1	
				1905	19150	22.19	23	0-1	
	25 RB		0	1855	18650	20.99	22	0-2	
				1880	18900	21.01	22	0-2	
				1905	19150	20.71	22	0-2	
			12	1855	18650	20.75	22	0-2	
				1880	18900	20.89	22	0-2	
				1905	19150	20.80	22	0-2	
			25	1855	18650	20.79	22	0-2	
				1880	18900	20.82	22	0-2	
				1905	19150	20.87	22	0-2	
	50RB			1855	18650	20.95	22	0-2	
				1880	18900	20.87	22	0-2	
				1905	19150	20.91	22	0-2	

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FDD Band 2								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
10	64-QAM	1 RB	0	1855	18650	21.72	22	0-2
				1880	18900	21.69	22	0-2
				1905	19150	21.69	22	0-2
			25	1855	18650	21.75	22	0-2
				1880	18900	21.76	22	0-2
				1905	19150	21.59	22	0-2
			49	1855	18650	21.74	22	0-2
				1880	18900	21.52	22	0-2
				1905	19150	21.55	22	0-2
		25 RB	0	1855	18650	20.73	21	0-3
				1880	18900	20.59	21	0-3
				1905	19150	20.58	21	0-3
			12	1855	18650	20.75	21	0-3
				1880	18900	20.61	21	0-3
				1905	19150	20.80	21	0-3
			25	1855	18650	20.62	21	0-3
				1880	18900	20.72	21	0-3
				1905	19150	20.60	21	0-3
		50RB		1855	18650	20.61	21	0-3
				1880	18900	20.59	21	0-3
				1905	19150	20.55	21	0-3

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FDD Band 2									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted pow er (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allow ed per 3GPP(dB)	
5	QPSK	1 RB	0	1852.5	18625	23.46	24	0	
				1880	18900	23.33	24	0	
				1907.5	19175	23.32	24	0	
			12	1852.5	18625	23.49	24	0	
				1880	18900	23.43	24	0	
				1907.5	19175	23.52	24	0	
			24	1852.5	18625	23.69	24	0	
				1880	18900	23.19	24	0	
				1907.5	19175	23.44	24	0	
		12 RB	0	1852.5	18625	22.48	23	0-1	
				1880	18900	22.58	23	0-1	
				1907.5	19175	22.30	23	0-1	
			6	1852.5	18625	22.49	23	0-1	
				1880	18900	22.54	23	0-1	
				1907.5	19175	22.37	23	0-1	
			13	1852.5	18625	22.55	23	0-1	
				1880	18900	22.54	23	0-1	
				1907.5	19175	22.48	23	0-1	
		25RB			1852.5	18625	22.26	23	0-1
					1880	18900	22.49	23	0-1
					1907.5	19175	22.70	23	0-1
		16-QAM	1 RB	0	1852.5	18625	22.06	23	0-1
					1880	18900	21.87	23	0-1
					1907.5	19175	22.04	23	0-1
				12	1852.5	18625	22.00	23	0-1
					1880	18900	22.00	23	0-1
					1907.5	19175	21.99	23	0-1
				24	1852.5	18625	22.15	23	0-1
					1880	18900	22.26	23	0-1
					1907.5	19175	22.03	23	0-1
	12 RB			0	1852.5	18625	20.88	22	0-2
					1880	18900	20.93	22	0-2
					1907.5	19175	20.50	22	0-2
				6	1852.5	18625	20.55	22	0-2
					1880	18900	20.80	22	0-2
					1907.5	19175	20.72	22	0-2
			13	1852.5	18625	20.66	22	0-2	
				1880	18900	20.66	22	0-2	
				1907.5	19175	20.67	22	0-2	
	25RB			1852.5	18625	20.78	22	0-2	
				1880	18900	20.69	22	0-2	
				1907.5	19175	20.85	22	0-2	

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FDD Band 2								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
5	64-QAM	1 RB	0	1852.5	18625	21.61	22	0-2
				1880	18900	21.49	22	0-2
				1907.5	19175	21.61	22	0-2
			12	1852.5	18625	21.70	22	0-2
				1880	18900	21.74	22	0-2
				1907.5	19175	21.45	22	0-2
			24	1852.5	18625	21.66	22	0-2
				1880	18900	21.41	22	0-2
				1907.5	19175	21.53	22	0-2
		12 RB	0	1852.5	18625	20.57	21	0-3
				1880	18900	20.38	21	0-3
				1907.5	19175	20.56	21	0-3
			6	1852.5	18625	20.60	21	0-3
				1880	18900	20.40	21	0-3
				1907.5	19175	20.66	21	0-3
			13	1852.5	18625	20.47	21	0-3
				1880	18900	20.51	21	0-3
				1907.5	19175	20.47	21	0-3
		25RB		1852.5	18625	20.50	21	0-3
				1880	18900	20.46	21	0-3
				1907.5	19175	20.34	21	0-3

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FDD Band 2								
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	23.28	24	0
				1880	18900	23.20	24	0
				1908.5	19185	23.26	24	0
			7	1851.5	18615	23.45	24	0
				1880	18900	23.23	24	0
				1908.5	19185	23.50	24	0
			14	1851.5	18615	23.52	24	0
				1880	18900	23.05	24	0
				1908.5	19185	23.29	24	0
		8 RB	0	1851.5	18615	22.46	23	0-1
				1880	18900	22.52	23	0-1
				1908.5	19185	22.28	23	0-1
			4	1851.5	18615	22.28	23	0-1
				1880	18900	22.33	23	0-1
				1908.5	19185	22.29	23	0-1
			7	1851.5	18615	22.39	23	0-1
				1880	18900	22.49	23	0-1
				1908.5	19185	22.36	23	0-1
		15RB		1851.5	18615	22.16	23	0-1
				1880	18900	22.29	23	0-1
				1908.5	19185	22.51	23	0-1
	16-QAM	1 RB	0	1851.5	18615	22.01	23	0-1
				1880	18900	21.73	23	0-1
				1908.5	19185	21.96	23	0-1
			7	1851.5	18615	21.96	23	0-1
				1880	18900	21.95	23	0-1
				1908.5	19185	21.95	23	0-1
			14	1851.5	18615	22.08	23	0-1
				1880	18900	22.19	23	0-1
				1908.5	19185	21.83	23	0-1
		8 RB	0	1851.5	18615	20.69	22	0-2
				1880	18900	20.72	22	0-2
				1908.5	19185	20.41	22	0-2
			4	1851.5	18615	20.53	22	0-2
				1880	18900	20.64	22	0-2
				1908.5	19185	20.61	22	0-2
			7	1851.5	18615	20.52	22	0-2
				1880	18900	20.55	22	0-2
				1908.5	19185	20.54	22	0-2
		15RB		1851.5	18615	20.66	22	0-2
				1880	18900	20.52	22	0-2
				1908.5	19185	20.80	22	0-2

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FDD Band 2								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
3	64-QAM	1 RB	0	1851.5	18615	21.52	22	0-2
				1880	18900	21.35	22	0-2
				1908.5	19185	21.40	22	0-2
			7	1851.5	18615	21.52	22	0-2
				1880	18900	21.65	22	0-2
				1908.5	19185	21.35	22	0-2
			14	1851.5	18615	21.60	22	0-2
				1880	18900	21.27	22	0-2
				1908.5	19185	21.37	22	0-2
		8 RB	0	1851.5	18615	20.50	21	0-3
				1880	18900	20.30	21	0-3
				1908.5	19185	20.44	21	0-3
			4	1851.5	18615	20.55	21	0-3
				1880	18900	20.38	21	0-3
				1908.5	19185	20.57	21	0-3
			7	1851.5	18615	20.44	21	0-3
				1880	18900	20.48	21	0-3
				1908.5	19185	20.33	21	0-3
		15RB		1851.5	18615	20.46	21	0-3
				1880	18900	20.32	21	0-3
				1908.5	19185	20.14	21	0-3

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FDD Band 2								
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	23.05	24	0
				1880	18900	23.21	24	0
				1909.3	19193	22.96	24	0
			2	1850.7	18607	23.02	24	0
				1880	18900	23.20	24	0
				1909.3	19193	22.93	24	0
			5	1850.7	18607	23.02	24	0
				1880	18900	23.19	24	0
				1909.3	19193	22.77	24	0
		3 RB	0	1850.7	18607	23.02	24	0
				1880	18900	23.19	24	0
				1909.3	19193	22.92	24	0
			2	1850.7	18607	23.00	24	0
				1880	18900	23.15	24	0
				1909.3	19193	22.73	24	0
			3	1850.7	18607	23.00	24	0
				1880	18900	23.16	24	0
				1909.3	19193	22.89	24	0
		6RB		1850.7	18607	22.02	23	0-1
				1880	18900	22.13	23	0-1
				1909.3	19193	21.94	23	0-1
	16-QAM	1 RB	0	1850.7	18607	22.39	23	0-1
				1880	18900	22.47	23	0-1
				1909.3	19193	22.27	23	0-1
			2	1850.7	18607	22.37	23	0-1
				1880	18900	22.44	23	0-1
				1909.3	19193	22.22	23	0-1
			5	1850.7	18607	22.38	23	0-1
				1880	18900	22.41	23	0-1
				1909.3	19193	22.21	23	0-1
		3 RB	0	1850.7	18607	22.16	23	0-1
				1880	18900	22.27	23	0-1
				1909.3	19193	22.04	23	0-1
			2	1850.7	18607	22.13	23	0-1
				1880	18900	22.21	23	0-1
				1909.3	19193	22.04	23	0-1
			3	1850.7	18607	22.11	23	0-1
				1880	18900	22.26	23	0-1
				1909.3	19193	22.05	23	0-1
		6RB		1850.7	18607	21.11	22	0-2
				1880	18900	21.13	22	0-2
				1909.3	19193	21.01	22	0-2

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FDD Band 2								
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	64-QAM	1 RB	0	1850.7	18607	21.82	22	0-2
				1880	18900	21.85	22	0-2
				1909.3	19193	21.98	22	0-2
			2	1850.7	18607	21.95	22	0-2
				1880	18900	21.80	22	0-2
				1909.3	19193	21.89	22	0-2
			5	1850.7	18607	21.81	22	0-2
				1880	18900	21.93	22	0-2
				1909.3	19193	21.94	22	0-2
		3 RB	0	1850.7	18607	21.79	22	0-2
				1880	18900	21.88	22	0-2
				1909.3	19193	21.84	22	0-2
			2	1850.7	18607	21.80	22	0-2
				1880	18900	21.88	22	0-2
				1909.3	19193	21.81	22	0-2
			3	1850.7	18607	21.98	22	0-2
				1880	18900	21.88	22	0-2
				1909.3	19193	21.93	22	0-2
		6RB		1850.7	18607	20.95	21	0-3
				1880	18900	20.85	21	0-3
				1909.3	19193	20.92	21	0-3

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FDD Band 4									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted pow er (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allow ed per 3GPP(dB)	
20	QPSK	1 RB	0	1720	20050	23.17	24	0	
				1732.5	20175	23.12	24	0	
				1745	20300	23.01	24	0	
			50	1720	20050	22.97	24	0	
				1732.5	20175	22.91	24	0	
				1745	20300	22.86	24	0	
			99	1720	20050	22.98	24	0	
				1732.5	20175	22.87	24	0	
				1745	20300	22.84	24	0	
		50 RB	0	1720	20050	22.10	23	0-1	
				1732.5	20175	22.06	23	0-1	
				1745	20300	21.98	23	0-1	
			25	1720	20050	22.00	23	0-1	
				1732.5	20175	21.96	23	0-1	
				1745	20300	21.94	23	0-1	
			50	1720	20050	22.06	23	0-1	
				1732.5	20175	21.90	23	0-1	
				1745	20300	21.93	23	0-1	
		100RB			1720	20050	22.03	23	0-1
					1732.5	20175	22.04	23	0-1
					1745	20300	21.96	23	0-1
		16-QAM	1 RB	0	1720	20050	22.54	23	0-1
					1732.5	20175	22.46	23	0-1
					1745	20300	22.31	23	0-1
				50	1720	20050	22.33	23	0-1
					1732.5	20175	22.23	23	0-1
					1745	20300	22.25	23	0-1
	99			1720	20050	22.22	23	0-1	
				1732.5	20175	22.22	23	0-1	
				1745	20300	22.18	23	0-1	
	50 RB		0	1720	20050	21.10	22	0-2	
				1732.5	20175	21.07	22	0-2	
				1745	20300	21.02	22	0-2	
			25	1720	20050	21.02	22	0-2	
				1732.5	20175	20.99	22	0-2	
				1745	20300	20.98	22	0-2	
			50	1720	20050	21.09	22	0-2	
				1732.5	20175	20.94	22	0-2	
				1745	20300	20.96	22	0-2	
	100RB			1720	20050	21.05	22	0-2	
				1732.5	20175	21.05	22	0-2	
				1745	20300	21.00	22	0-2	

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FDD Band 4								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
20	64-QAM	1 RB	0	1720	20050	21.84	22	0-2
				1732.5	20175	21.92	22	0-2
				1745	20300	21.90	22	0-2
			50	1720	20050	21.84	22	0-2
				1732.5	20175	21.90	22	0-2
				1745	20300	21.90	22	0-2
			99	1720	20050	21.88	22	0-2
				1732.5	20175	21.80	22	0-2
				1745	20300	21.80	22	0-2
		50 RB	0	1720	20050	20.97	21	0-3
				1732.5	20175	20.92	21	0-3
				1745	20300	20.83	21	0-3
			25	1720	20050	20.81	21	0-3
				1732.5	20175	20.85	21	0-3
				1745	20300	20.79	21	0-3
			50	1720	20050	20.81	21	0-3
				1732.5	20175	20.85	21	0-3
				1745	20300	20.92	21	0-3
		100RB		1720	20050	20.92	21	0-3
				1732.5	20175	20.94	21	0-3
				1745	20300	20.79	21	0-3

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FDD Band 4									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted pow er (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allow ed per 3GPP(dB)	
15	QPSK	1 RB	0	1717.5	20025	23.01	24	0	
				1732.5	20175	23.08	24	0	
				1747.5	20325	22.87	24	0	
			36	1717.5	20025	22.82	24	0	
				1732.5	20175	22.75	24	0	
				1747.5	20325	22.82	24	0	
			74	1717.5	20025	22.89	24	0	
				1732.5	20175	22.74	24	0	
				1747.5	20325	22.66	24	0	
		36 RB	0	1717.5	20025	21.97	23	0-1	
				1732.5	20175	21.91	23	0-1	
				1747.5	20325	21.90	23	0-1	
			18	1717.5	20025	21.93	23	0-1	
				1732.5	20175	21.85	23	0-1	
				1747.5	20325	21.81	23	0-1	
			37	1717.5	20025	21.90	23	0-1	
				1732.5	20175	21.84	23	0-1	
				1747.5	20325	21.89	23	0-1	
		75RB			1717.5	20025	21.89	23	0-1
					1732.5	20175	21.85	23	0-1
					1747.5	20325	21.94	23	0-1
	16-QAM	1 RB	0	1717.5	20025	22.46	23	0-1	
				1732.5	20175	22.43	23	0-1	
				1747.5	20325	22.10	23	0-1	
			36	1717.5	20025	22.15	23	0-1	
				1732.5	20175	22.17	23	0-1	
				1747.5	20325	22.18	23	0-1	
			74	1717.5	20025	22.14	23	0-1	
				1732.5	20175	22.19	23	0-1	
				1747.5	20325	22.07	23	0-1	
		36 RB	0	1717.5	20025	20.98	22	0-2	
				1732.5	20175	21.00	22	0-2	
				1747.5	20325	20.88	22	0-2	
			18	1717.5	20025	21.00	22	0-2	
				1732.5	20175	20.86	22	0-2	
				1747.5	20325	20.93	22	0-2	
			37	1717.5	20025	21.07	22	0-2	
				1732.5	20175	20.79	22	0-2	
				1747.5	20325	20.85	22	0-2	
		75RB			1717.5	20025	20.99	22	0-2
					1732.5	20175	20.95	22	0-2
					1747.5	20325	20.82	22	0-2

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SGS Taiwan Ltd.

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FDD Band 4								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
15	64-QAM	1 RB	0	1717.5	20025	21.63	22	0-2
				1732.5	20175	21.90	22	0-2
				1747.5	20325	21.85	22	0-2
			36	1717.5	20025	21.67	22	0-2
				1732.5	20175	21.74	22	0-2
				1747.5	20325	21.80	22	0-2
			74	1717.5	20025	21.69	22	0-2
				1732.5	20175	21.67	22	0-2
				1747.5	20325	21.64	22	0-2
		36 RB	0	1717.5	20025	20.76	21	0-3
				1732.5	20175	20.81	21	0-3
				1747.5	20325	20.77	21	0-3
			18	1717.5	20025	20.75	21	0-3
				1732.5	20175	20.74	21	0-3
				1747.5	20325	20.63	21	0-3
			37	1717.5	20025	20.71	21	0-3
				1732.5	20175	20.65	21	0-3
				1747.5	20325	20.72	21	0-3
		75RB		1717.5	20025	20.86	21	0-3
				1732.5	20175	20.83	21	0-3
				1747.5	20325	20.72	21	0-3

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FDD Band 4									
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	22.91	24	0	
				1732.5	20175	22.88	24	0	
				1750	20350	22.73	24	0	
			25	1715	20000	22.74	24	0	
				1732.5	20175	22.54	24	0	
				1750	20350	22.66	24	0	
			49	1715	20000	22.68	24	0	
				1732.5	20175	22.56	24	0	
				1750	20350	22.59	24	0	
		25 RB	0	1715	20000	21.94	23	0-1	
				1732.5	20175	21.85	23	0-1	
				1750	20350	21.78	23	0-1	
			12	1715	20000	21.81	23	0-1	
				1732.5	20175	21.80	23	0-1	
				1750	20350	21.62	23	0-1	
			25	1715	20000	21.73	23	0-1	
				1732.5	20175	21.71	23	0-1	
				1750	20350	21.71	23	0-1	
		50RB			1715	20000	21.72	23	0-1
					1732.5	20175	21.82	23	0-1
					1750	20350	21.81	23	0-1
		16-QAM	1 RB	0	1715	20000	22.39	23	0-1
					1732.5	20175	22.34	23	0-1
					1750	20350	22.06	23	0-1
				25	1715	20000	22.08	23	0-1
					1732.5	20175	22.11	23	0-1
					1750	20350	22.00	23	0-1
	49			1715	20000	21.96	23	0-1	
				1732.5	20175	22.14	23	0-1	
				1750	20350	21.95	23	0-1	
	25 RB			0	1715	20000	20.82	22	0-2
					1732.5	20175	20.89	22	0-2
					1750	20350	20.75	22	0-2
				12	1715	20000	20.89	22	0-2
					1732.5	20175	20.79	22	0-2
					1750	20350	20.80	22	0-2
			25	1715	20000	20.87	22	0-2	
				1732.5	20175	20.71	22	0-2	
				1750	20350	20.73	22	0-2	
	50RB			1715	20000	20.92	22	0-2	
				1732.5	20175	20.82	22	0-2	
				1750	20350	20.69	22	0-2	

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FDD Band 4								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
10	64-QAM	1 RB	0	1715	20000	21.55	22	0-2
				1732.5	20175	21.78	22	0-2
				1750	20350	21.81	22	0-2
			25	1715	20000	21.47	22	0-2
				1732.5	20175	21.58	22	0-2
				1750	20350	21.61	22	0-2
			49	1715	20000	21.66	22	0-2
				1732.5	20175	21.57	22	0-2
				1750	20350	21.62	22	0-2
		25 RB	0	1715	20000	20.73	21	0-3
				1732.5	20175	20.65	21	0-3
				1750	20350	20.65	21	0-3
			12	1715	20000	20.73	21	0-3
				1732.5	20175	20.66	21	0-3
				1750	20350	20.61	21	0-3
			25	1715	20000	20.67	21	0-3
				1732.5	20175	20.58	21	0-3
				1750	20350	20.54	21	0-3
		50RB		1715	20000	20.66	21	0-3
				1732.5	20175	20.66	21	0-3
				1750	20350	20.65	21	0-3

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FDD Band 4									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted pow er (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allow ed per 3GPP(dB)	
5	QPSK	1 RB	0	1712.5	19975	22.85	24	0	
				1732.5	20175	22.77	24	0	
				1752.5	20375	22.53	24	0	
			12	1712.5	19975	22.64	24	0	
				1732.5	20175	22.43	24	0	
				1752.5	20375	22.47	24	0	
			24	1712.5	19975	22.48	24	0	
				1732.5	20175	22.37	24	0	
				1752.5	20375	22.47	24	0	
		12 RB	0	1712.5	19975	21.77	23	0-1	
				1732.5	20175	21.83	23	0-1	
				1752.5	20375	21.57	23	0-1	
			6	1712.5	19975	21.67	23	0-1	
				1732.5	20175	21.72	23	0-1	
				1752.5	20375	21.57	23	0-1	
			13	1712.5	19975	21.64	23	0-1	
				1732.5	20175	21.53	23	0-1	
				1752.5	20375	21.55	23	0-1	
		25RB			1712.5	19975	21.52	23	0-1
					1732.5	20175	21.71	23	0-1
					1752.5	20375	21.70	23	0-1
		16-QAM	1 RB	0	1712.5	19975	22.30	23	0-1
					1732.5	20175	22.22	23	0-1
					1752.5	20375	21.95	23	0-1
				12	1712.5	19975	21.88	23	0-1
					1732.5	20175	22.08	23	0-1
					1752.5	20375	21.89	23	0-1
	24			1712.5	19975	21.86	23	0-1	
				1732.5	20175	22.02	23	0-1	
				1752.5	20375	21.85	23	0-1	
	12 RB		0	1712.5	19975	20.64	22	0-2	
				1732.5	20175	20.76	22	0-2	
				1752.5	20375	20.60	22	0-2	
			6	1712.5	19975	20.73	22	0-2	
				1732.5	20175	20.67	22	0-2	
				1752.5	20375	20.78	22	0-2	
			13	1712.5	19975	20.68	22	0-2	
				1732.5	20175	20.51	22	0-2	
				1752.5	20375	20.69	22	0-2	
	25RB			1712.5	19975	20.78	22	0-2	
				1732.5	20175	20.72	22	0-2	
				1752.5	20375	20.49	22	0-2	

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FDD Band 4								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
5	64-QAM	1 RB	0	1712.5	19975	21.42	22	0-2
				1732.5	20175	21.64	22	0-2
				1752.5	20375	21.69	22	0-2
			12	1712.5	19975	21.27	22	0-2
				1732.5	20175	21.47	22	0-2
				1752.5	20375	21.44	22	0-2
			24	1712.5	19975	21.60	22	0-2
				1732.5	20175	21.41	22	0-2
				1752.5	20375	21.57	22	0-2
		12 RB	0	1712.5	19975	20.63	21	0-3
				1732.5	20175	20.54	21	0-3
				1752.5	20375	20.51	21	0-3
			6	1712.5	19975	20.69	21	0-3
				1732.5	20175	20.50	21	0-3
				1752.5	20375	20.40	21	0-3
			13	1712.5	19975	20.54	21	0-3
				1732.5	20175	20.50	21	0-3
				1752.5	20375	20.49	21	0-3
		25RB		1712.5	19975	20.49	21	0-3
				1732.5	20175	20.49	21	0-3
				1752.5	20375	20.50	21	0-3

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FDD Band 4									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted pow er (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allow ed per 3GPP(dB)	
3	QPSK	1 RB	0	1711.5	19965	22.66	24	0	
				1732.5	20175	22.68	24	0	
				1753.5	20385	22.34	24	0	
			7	1711.5	19965	22.56	24	0	
				1732.5	20175	22.29	24	0	
				1753.5	20385	22.31	24	0	
			14	1711.5	19965	22.37	24	0	
				1732.5	20175	22.30	24	0	
				1753.5	20385	22.26	24	0	
		8 RB	0	1711.5	19965	21.60	23	0-1	
				1732.5	20175	21.69	23	0-1	
				1753.5	20385	21.50	23	0-1	
			4	1711.5	19965	21.63	23	0-1	
				1732.5	20175	21.69	23	0-1	
				1753.5	20385	21.51	23	0-1	
			7	1711.5	19965	21.60	23	0-1	
				1732.5	20175	21.50	23	0-1	
				1753.5	20385	21.42	23	0-1	
		15RB			1711.5	19965	21.31	23	0-1
					1732.5	20175	21.65	23	0-1
					1753.5	20385	21.59	23	0-1
		16-QAM	1 RB	0	1711.5	19965	22.10	23	0-1
					1732.5	20175	22.13	23	0-1
					1753.5	20385	21.86	23	0-1
				7	1711.5	19965	21.83	23	0-1
					1732.5	20175	21.95	23	0-1
					1753.5	20385	21.76	23	0-1
	14			1711.5	19965	21.75	23	0-1	
				1732.5	20175	21.84	23	0-1	
				1753.5	20385	21.64	23	0-1	
	8 RB		0	1711.5	19965	20.52	22	0-2	
				1732.5	20175	20.73	22	0-2	
				1753.5	20385	20.52	22	0-2	
			4	1711.5	19965	20.70	22	0-2	
				1732.5	20175	20.49	22	0-2	
				1753.5	20385	20.66	22	0-2	
			7	1711.5	19965	20.54	22	0-2	
				1732.5	20175	20.42	22	0-2	
				1753.5	20385	20.53	22	0-2	
	15RB			1711.5	19965	20.70	22	0-2	
				1732.5	20175	20.51	22	0-2	
				1753.5	20385	20.28	22	0-2	

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FDD Band 4								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
3	64-QAM	1 RB	0	1711.5	19965	21.28	22	0-2
				1732.5	20175	21.49	22	0-2
				1753.5	20385	21.50	22	0-2
			7	1711.5	19965	21.21	22	0-2
				1732.5	20175	21.44	22	0-2
				1753.5	20385	21.24	22	0-2
			14	1711.5	19965	21.55	22	0-2
				1732.5	20175	21.21	22	0-2
				1753.5	20385	21.50	22	0-2
		8 RB	0	1711.5	19965	20.58	21	0-3
				1732.5	20175	20.44	21	0-3
				1753.5	20385	20.31	21	0-3
			4	1711.5	19965	20.67	21	0-3
				1732.5	20175	20.44	21	0-3
				1753.5	20385	20.21	21	0-3
			7	1711.5	19965	20.33	21	0-3
				1732.5	20175	20.30	21	0-3
				1753.5	20385	20.36	21	0-3
		15RB		1711.5	19965	20.28	21	0-3
				1732.5	20175	20.37	21	0-3
				1753.5	20385	20.37	21	0-3

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FDD Band 4									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted pow er (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allow ed per 3GPP(dB)	
1.4	QPSK	1 RB	0	1710.7	19957	23.09	24	0	
				1732.5	20175	22.97	24	0	
				1754.3	20393	22.87	24	0	
			2	1710.7	19957	23.09	24	0	
				1732.5	20175	22.94	24	0	
				1754.3	20393	22.79	24	0	
			5	1710.7	19957	23.10	24	0	
				1732.5	20175	22.98	24	0	
				1754.3	20393	22.80	24	0	
		3 RB	0	1710.7	19957	23.07	24	0	
				1732.5	20175	22.94	24	0	
				1754.3	20393	22.77	24	0	
			2	1710.7	19957	23.04	24	0	
				1732.5	20175	22.94	24	0	
				1754.3	20393	22.77	24	0	
			3	1710.7	19957	23.06	24	0	
				1732.5	20175	22.94	24	0	
				1754.3	20393	22.78	24	0	
		6RB			1710.7	19957	22.09	23	0-1
					1732.5	20175	21.98	23	0-1
					1754.3	20393	21.79	23	0-1
		16-QAM	1 RB	0	1710.7	19957	22.42	23	0-1
					1732.5	20175	22.29	23	0-1
					1754.3	20393	22.24	23	0-1
				2	1710.7	19957	22.42	23	0-1
					1732.5	20175	22.17	23	0-1
					1754.3	20393	21.98	23	0-1
	5			1710.7	19957	22.47	23	0-1	
				1732.5	20175	22.26	23	0-1	
				1754.3	20393	22.17	23	0-1	
	3 RB		0	1710.7	19957	22.20	23	0-1	
				1732.5	20175	22.10	23	0-1	
				1754.3	20393	21.91	23	0-1	
			2	1710.7	19957	22.22	23	0-1	
				1732.5	20175	22.07	23	0-1	
				1754.3	20393	21.91	23	0-1	
			3	1710.7	19957	22.20	23	0-1	
				1732.5	20175	22.07	23	0-1	
				1754.3	20393	21.94	23	0-1	
	6RB			1710.7	19957	21.17	22	0-2	
				1732.5	20175	21.05	22	0-2	
				1754.3	20393	20.91	22	0-2	

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FDD Band 4								
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	64-QAM	1 RB	0	1710.7	19957	21.83	22	0-2
				1732.5	20175	21.93	22	0-2
				1754.3	20393	21.82	22	0-2
			2	1710.7	19957	21.94	22	0-2
				1732.5	20175	21.89	22	0-2
				1754.3	20393	21.81	22	0-2
			5	1710.7	19957	21.94	22	0-2
				1732.5	20175	21.99	22	0-2
				1754.3	20393	21.94	22	0-2
		3 RB	0	1710.7	19957	21.96	22	0-2
				1732.5	20175	21.82	22	0-2
				1754.3	20393	21.82	22	0-2
			2	1710.7	19957	21.97	22	0-2
				1732.5	20175	21.86	22	0-2
				1754.3	20393	22.00	22	0-2
			3	1710.7	19957	21.95	22	0-2
				1732.5	20175	21.90	22	0-2
				1754.3	20393	21.90	22	0-2
		6RB		1710.7	19957	20.93	21	0-3
				1732.5	20175	20.89	21	0-3
				1754.3	20393	20.87	21	0-3

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FDD Band 5									
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	23.75	25	0	
				836.5	20525	23.82	25	0	
				844	20600	23.76	25	0	
			25	829	20450	23.71	25	0	
				836.5	20525	23.76	25	0	
				844	20600	23.70	25	0	
			49	829	20450	23.81	25	0	
				836.5	20525	23.83	25	0	
				844	20600	23.79	25	0	
		25 RB	0	829	20450	22.69	24	0-1	
				836.5	20525	22.81	24	0-1	
				844	20600	22.76	24	0-1	
			12	829	20450	22.73	24	0-1	
				836.5	20525	22.74	24	0-1	
				844	20600	22.70	24	0-1	
			25	829	20450	22.78	24	0-1	
				836.5	20525	22.73	24	0-1	
				844	20600	22.67	24	0-1	
		50RB			829	20450	22.75	24	0-1
					836.5	20525	22.78	24	0-1
					844	20600	22.74	24	0-1
		16-QAM	1 RB	0	829	20450	22.18	24	0-1
					836.5	20525	22.21	24	0-1
					844	20600	22.12	24	0-1
				25	829	20450	22.17	24	0-1
					836.5	20525	22.22	24	0-1
					844	20600	22.05	24	0-1
	49			829	20450	22.23	24	0-1	
				836.5	20525	22.20	24	0-1	
				844	20600	22.07	24	0-1	
	25 RB		0	829	20450	21.69	23	0-2	
				836.5	20525	21.79	23	0-2	
				844	20600	21.76	23	0-2	
			12	829	20450	21.74	23	0-2	
				836.5	20525	21.76	23	0-2	
				844	20600	21.69	23	0-2	
			25	829	20450	21.79	23	0-2	
				836.5	20525	21.73	23	0-2	
				844	20600	21.66	23	0-2	
	500RB			829	20450	21.76	23	0-2	
				836.5	20525	21.76	23	0-2	
				844	20600	21.73	23	0-2	

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FDD Band 5								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
10	64-QAM	1 RB	0	829	20450	21.95	23	0-2
				836.5	20525	22.03	23	0-2
				844	20600	21.96	23	0-2
			25	829	20450	21.97	23	0-2
				836.5	20525	21.93	23	0-2
				844	20600	21.92	23	0-2
			49	829	20450	22.03	23	0-2
				836.5	20525	22.05	23	0-2
				844	20600	21.98	23	0-2
		25 RB	0	829	20450	20.78	22	0-3
				836.5	20525	20.87	22	0-3
				844	20600	20.83	22	0-3
			12	829	20450	20.83	22	0-3
				836.5	20525	20.83	22	0-3
				844	20600	20.77	22	0-3
			25	829	20450	20.88	22	0-3
				836.5	20525	20.82	22	0-3
				844	20600	20.74	22	0-3
		500RB		829	20450	20.86	22	0-3
				836.5	20525	20.87	22	0-3
				844	20600	20.82	22	0-3

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FDD Band 5									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted pow er (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allow ed per 3GPP(dB)	
5	QPSK	1 RB	0	826.5	20425	23.64	25	0	
				836.5	20525	23.78	25	0	
				846.5	20625	23.68	25	0	
			12	826.5	20425	23.51	25	0	
				836.5	20525	23.72	25	0	
				846.5	20625	23.61	25	0	
			24	826.5	20425	23.76	25	0	
				836.5	20525	23.76	25	0	
				846.5	20625	23.70	25	0	
		12 RB	0	826.5	20425	22.55	24	0-1	
				836.5	20525	22.61	24	0-1	
				846.5	20625	22.67	24	0-1	
			6	826.5	20425	22.65	24	0-1	
				836.5	20525	22.54	24	0-1	
				846.5	20625	22.56	24	0-1	
			13	826.5	20425	22.68	24	0-1	
				836.5	20525	22.52	24	0-1	
				846.5	20625	22.54	24	0-1	
		25RB			826.5	20425	22.69	24	0-1
					836.5	20525	22.61	24	0-1
					846.5	20625	22.64	24	0-1
		16-QAM	1 RB	0	826.5	20425	22.02	24	0-1
					836.5	20525	22.17	24	0-1
					846.5	20625	22.32	24	0-1
				12	826.5	20425	22.07	24	0-1
					836.5	20525	22.06	24	0-1
					846.5	20625	22.31	24	0-1
	24			826.5	20425	22.05	24	0-1	
				836.5	20525	22.02	24	0-1	
				846.5	20625	22.00	24	0-1	
	12 RB			0	826.5	20425	21.62	23	0-2
					836.5	20525	21.77	23	0-2
					846.5	20625	21.68	23	0-2
			6	826.5	20425	21.57	23	0-2	
				836.5	20525	21.59	23	0-2	
				846.5	20625	21.52	23	0-2	
			13	826.5	20425	21.66	23	0-2	
				836.5	20525	21.63	23	0-2	
				846.5	20625	21.57	23	0-2	
	25RB			826.5	20425	21.70	23	0-2	
				836.5	20525	21.61	23	0-2	
				846.5	20625	21.69	23	0-2	

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FDD Band 5								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
5	64-QAM	1 RB	0	826.5	20425	21.75	23	0-2
				836.5	20525	21.86	23	0-2
				846.5	20625	21.91	23	0-2
			12	826.5	20425	21.89	23	0-2
				836.5	20525	21.78	23	0-2
				846.5	20625	21.88	23	0-2
			24	826.5	20425	21.96	23	0-2
				836.5	20525	22.02	23	0-2
				846.5	20625	21.92	23	0-2
		12 RB	0	826.5	20425	20.68	22	0-3
				836.5	20525	20.82	22	0-3
				846.5	20625	20.78	22	0-3
			6	826.5	20425	20.65	22	0-3
				836.5	20525	20.81	22	0-3
				846.5	20625	20.73	22	0-3
			13	826.5	20425	20.71	22	0-3
				836.5	20525	20.72	22	0-3
				846.5	20625	20.67	22	0-3
		25RB		826.5	20425	20.67	22	0-3
				836.5	20525	20.79	22	0-3
				846.5	20625	20.77	22	0-3

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FDD Band 5									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted pow er (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allow ed per 3GPP(dB)	
3	QPSK	1 RB	0	825.5	20415	23.50	25	0	
				836.5	20525	23.65	25	0	
				847.5	20635	23.66	25	0	
			7	825.5	20415	23.43	25	0	
				836.5	20525	23.60	25	0	
				847.5	20635	23.56	25	0	
			14	825.5	20415	23.55	25	0	
				836.5	20525	23.62	25	0	
				847.5	20635	23.60	25	0	
		8 RB	0	825.5	20415	22.43	24	0-1	
				836.5	20525	22.51	24	0-1	
				847.5	20635	22.55	24	0-1	
			4	825.5	20415	22.50	24	0-1	
				836.5	20525	22.44	24	0-1	
				847.5	20635	22.35	24	0-1	
			7	825.5	20415	22.53	24	0-1	
				836.5	20525	22.48	24	0-1	
				847.5	20635	22.40	24	0-1	
		15RB			825.5	20415	22.65	24	0-1
					836.5	20525	22.42	24	0-1
					847.5	20635	22.61	24	0-1
		16-QAM	1 RB	0	825.5	20415	22.44	24	0-1
					836.5	20525	22.46	24	0-1
					847.5	20635	22.34	24	0-1
	7			825.5	20415	22.39	24	0-1	
				836.5	20525	22.47	24	0-1	
				847.5	20635	22.32	24	0-1	
	14			825.5	20415	22.38	24	0-1	
				836.5	20525	22.32	24	0-1	
				847.5	20635	22.44	24	0-1	
	8 RB			0	825.5	20415	21.44	23	0-2
					836.5	20525	21.61	23	0-2
					847.5	20635	21.56	23	0-2
				4	825.5	20415	21.50	23	0-2
					836.5	20525	21.50	23	0-2
					847.5	20635	21.45	23	0-2
			7	825.5	20415	21.45	23	0-2	
				836.5	20525	21.45	23	0-2	
				847.5	20635	21.54	23	0-2	
	15RB			825.5	20415	21.65	23	0-2	
				836.5	20525	21.43	23	0-2	
				847.5	20635	21.51	23	0-2	

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FDD Band 5								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
3	64-QAM	1 RB	0	825.5	20415	21.68	23	0-2
				836.5	20525	21.69	23	0-2
				847.5	20635	21.86	23	0-2
			7	825.5	20415	21.68	23	0-2
				836.5	20525	21.76	23	0-2
				847.5	20635	21.81	23	0-2
			14	825.5	20415	21.92	23	0-2
				836.5	20525	21.97	23	0-2
				847.5	20635	21.83	23	0-2
		8 RB	0	825.5	20415	20.54	22	0-3
				836.5	20525	20.66	22	0-3
				847.5	20635	20.61	22	0-3
			4	825.5	20415	20.57	22	0-3
				836.5	20525	20.68	22	0-3
				847.5	20635	20.54	22	0-3
			7	825.5	20415	20.59	22	0-3
				836.5	20525	20.57	22	0-3
				847.5	20635	20.46	22	0-3
		15RB		825.5	20415	20.64	22	0-3
				836.5	20525	20.66	22	0-3
				847.5	20635	20.71	22	0-3

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FDD Band 5									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted pow er (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allow ed per 3GPP(dB)	
1.4	QPSK	1 RB	0	824.7	20407	23.63	25	0	
				836.5	20525	23.69	25	0	
				848.3	20643	23.64	25	0	
			2	824.7	20407	23.60	25	0	
				836.5	20525	23.68	25	0	
				848.3	20643	23.59	25	0	
			5	824.7	20407	23.63	25	0	
				836.5	20525	23.70	25	0	
				848.3	20643	23.62	25	0	
		3 RB	0	824.7	20407	23.61	25	0	
				836.5	20525	23.67	25	0	
				848.3	20643	23.60	25	0	
			2	824.7	20407	23.59	25	0	
				836.5	20525	23.66	25	0	
				848.3	20643	23.57	25	0	
			3	824.7	20407	23.60	25	0	
				836.5	20525	23.68	25	0	
				848.3	20643	23.43	25	0	
		6RB			824.7	20407	22.61	24	0-1
					836.5	20525	22.67	24	0-1
					848.3	20643	22.46	24	0-1
	16-QAM	1 RB	0	824.7	20407	22.95	24	0-1	
				836.5	20525	22.99	24	0-1	
				848.3	20643	22.87	24	0-1	
			2	824.7	20407	22.84	24	0-1	
				836.5	20525	23.01	24	0-1	
				848.3	20643	22.85	24	0-1	
			5	824.7	20407	22.69	24	0-1	
				836.5	20525	23.01	24	0-1	
				848.3	20643	22.84	24	0-1	
		3 RB	0	824.7	20407	22.70	24	0-1	
				836.5	20525	22.77	24	0-1	
				848.3	20643	22.66	24	0-1	
			2	824.7	20407	22.67	24	0-1	
				836.5	20525	22.76	24	0-1	
				848.3	20643	22.68	24	0-1	
			3	824.7	20407	22.68	24	0-1	
				836.5	20525	22.77	24	0-1	
				848.3	20643	22.65	24	0-1	
		6RB			824.7	20407	21.70	23	0-2
					836.5	20525	21.75	23	0-2
					848.3	20643	21.63	23	0-2

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FDD Band 5								
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	64-QAM	1 RB	0	824.7	20407	21.96	23	0-2
				836.5	20525	21.98	23	0-2
				848.3	20643	21.92	23	0-2
			2	824.7	20407	21.91	23	0-2
				836.5	20525	21.97	23	0-2
				848.3	20643	21.78	23	0-2
			5	824.7	20407	21.92	23	0-2
				836.5	20525	22.02	23	0-2
				848.3	20643	21.73	23	0-2
		3 RB	0	824.7	20407	21.71	23	0-2
				836.5	20525	21.89	23	0-2
				848.3	20643	21.79	23	0-2
			2	824.7	20407	21.86	23	0-2
				836.5	20525	21.91	23	0-2
				848.3	20643	21.83	23	0-2
			3	824.7	20407	21.86	23	0-2
				836.5	20525	21.94	23	0-2
				848.3	20643	21.82	23	0-2
		6RB		824.7	20407	20.84	22	0-3
				836.5	20525	20.90	22	0-3
				848.3	20643	20.82	22	0-3

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FDD Band 7									
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	2510	20850	22.63	24	0	
				2535	21100	23.12	24	0	
				2560	21350	23.11	24	0	
			50	2510	20850	23.06	24	0	
				2535	21100	23.08	24	0	
				2560	21350	22.98	24	0	
			99	2510	20850	23.35	24	0	
				2535	21100	23.46	24	0	
				2560	21350	22.94	24	0	
		50 RB	0	2510	20850	21.91	23	0-1	
				2535	21100	22.14	23	0-1	
				2560	21350	22.10	23	0-1	
			25	2510	20850	22.11	23	0-1	
				2535	21100	22.19	23	0-1	
				2560	21350	21.99	23	0-1	
			50	2510	20850	22.29	23	0-1	
				2535	21100	22.39	23	0-1	
				2560	21350	21.84	23	0-1	
		100RB			2510	20850	22.16	23	0-1
					2535	21100	22.25	23	0-1
					2560	21350	22.03	23	0-1
		16-QAM	1 RB	0	2510	20850	21.74	23	0-1
					2535	21100	21.93	23	0-1
					2560	21350	21.99	23	0-1
				50	2510	20850	21.91	23	0-1
					2535	21100	22.12	23	0-1
					2560	21350	21.87	23	0-1
	99			2510	20850	22.19	23	0-1	
				2535	21100	22.33	23	0-1	
				2560	21350	21.70	23	0-1	
	50 RB			0	2510	20850	20.71	22	0-2
					2535	21100	20.73	22	0-2
					2560	21350	20.95	22	0-2
			25	2510	20850	20.85	22	0-2	
				2535	21100	21.09	22	0-2	
				2560	21350	20.73	22	0-2	
			50	2510	20850	21.00	22	0-2	
				2535	21100	21.17	22	0-2	
				2560	21350	20.51	22	0-2	
	100RB			2510	20850	20.72	22	0-2	
				2535	21100	20.81	22	0-2	
				2560	21350	20.82	22	0-2	

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FDD Band 7								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
20	64-QAM	1 RB	0	2510	20850	20.85	22	0-2
				2535	21100	21.04	22	0-2
				2560	21350	20.70	22	0-2
			50	2510	20850	20.98	22	0-2
				2535	21100	21.20	22	0-2
				2560	21350	20.54	22	0-2
			99	2510	20850	21.15	22	0-2
				2535	21100	21.31	22	0-2
				2560	21350	20.67	22	0-2
		50 RB	0	2510	20850	19.61	21	0-3
				2535	21100	19.76	21	0-3
				2560	21350	19.80	21	0-3
			25	2510	20850	19.82	21	0-3
				2535	21100	19.92	21	0-3
				2560	21350	19.79	21	0-3
			50	2510	20850	20.09	21	0-3
				2535	21100	20.27	21	0-3
				2560	21350	19.65	21	0-3
		100RB		2510	20850	20.12	21	0-3
				2535	21100	20.28	21	0-3
				2560	21350	19.57	21	0-3

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FDD Band 7									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted pow er (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allow ed per 3GPP(dB)	
15	QPSK	1 RB	0	2507.5	20825	22.59	24	0	
				2535	21100	23.08	24	0	
				2562.5	21375	22.93	24	0	
			36	2507.5	20825	22.96	24	0	
				2535	21100	22.95	24	0	
				2562.5	21375	22.91	24	0	
			74	2507.5	20825	23.26	24	0	
				2535	21100	23.27	24	0	
				2562.5	21375	22.77	24	0	
		36 RB	0	2507.5	20825	21.75	23	0-1	
				2535	21100	21.94	23	0-1	
				2562.5	21375	21.95	23	0-1	
			18	2507.5	20825	21.94	23	0-1	
				2535	21100	22.09	23	0-1	
				2562.5	21375	21.95	23	0-1	
			37	2507.5	20825	22.13	23	0-1	
				2535	21100	22.31	23	0-1	
				2562.5	21375	21.65	23	0-1	
		75RB			2507.5	20825	21.99	23	0-1
					2535	21100	22.04	23	0-1
					2562.5	21375	21.82	23	0-1
		16-QAM	1 RB	0	2507.5	20825	21.68	23	0-1
					2535	21100	21.77	23	0-1
					2562.5	21375	21.89	23	0-1
				36	2507.5	20825	21.84	23	0-1
					2535	21100	22.00	23	0-1
					2562.5	21375	21.79	23	0-1
	74			2507.5	20825	22.00	23	0-1	
				2535	21100	22.27	23	0-1	
				2562.5	21375	21.54	23	0-1	
	36 RB			0	2507.5	20825	20.55	22	0-2
					2535	21100	20.55	22	0-2
					2562.5	21375	20.80	22	0-2
				18	2507.5	20825	20.69	22	0-2
					2535	21100	20.96	22	0-2
					2562.5	21375	20.53	22	0-2
			37	2507.5	20825	20.86	22	0-2	
				2535	21100	21.03	22	0-2	
				2562.5	21375	20.45	22	0-2	
	75RB			2507.5	20825	20.51	22	0-2	
				2535	21100	20.63	22	0-2	
				2562.5	21375	20.71	22	0-2	

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FDD Band 7								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
15	64-QAM	1 RB	0	2507.5	20825	20.70	22	0-2
				2535	21100	20.98	22	0-2
				2562.5	21375	20.68	22	0-2
			36	2507.5	20825	20.88	22	0-2
				2535	21100	21.07	22	0-2
				2562.5	21375	20.43	22	0-2
			74	2507.5	20825	20.96	22	0-2
				2535	21100	21.16	22	0-2
				2562.5	21375	20.56	22	0-2
		36 RB	0	2507.5	20825	19.52	21	0-3
				2535	21100	19.56	21	0-3
				2562.5	21375	19.65	21	0-3
			18	2507.5	20825	19.72	21	0-3
				2535	21100	19.87	21	0-3
				2562.5	21375	19.58	21	0-3
			37	2507.5	20825	20.03	21	0-3
				2535	21100	20.07	21	0-3
				2562.5	21375	19.55	21	0-3
		75RB		2507.5	20825	19.94	21	0-3
				2535	21100	20.18	21	0-3
				2562.5	21375	19.42	21	0-3

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FDD Band 7									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted pow er (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allow ed per 3GPP(dB)	
10	QPSK	1 RB	0	2505	20800	22.57	24	0	
				2535	21100	22.99	24	0	
				2565	21400	22.85	24	0	
			25	2505	20800	22.76	24	0	
				2535	21100	22.91	24	0	
				2565	21400	22.81	24	0	
			49	2505	20800	23.20	24	0	
				2535	21100	23.11	24	0	
				2565	21400	22.62	24	0	
		25 RB	0	2505	20800	21.59	23	0-1	
				2535	21100	21.90	23	0-1	
				2565	21400	21.91	23	0-1	
			12	2505	20800	21.91	23	0-1	
				2535	21100	21.98	23	0-1	
				2565	21400	21.77	23	0-1	
			25	2505	20800	21.98	23	0-1	
				2535	21100	22.14	23	0-1	
				2565	21400	21.56	23	0-1	
		50RB			2505	20800	21.81	23	0-1
					2535	21100	21.93	23	0-1
					2565	21400	21.72	23	0-1
		16-QAM	1 RB	0	2505	20800	21.53	23	0-1
					2535	21100	21.63	23	0-1
					2565	21400	21.71	23	0-1
				25	2505	20800	21.71	23	0-1
					2535	21100	21.92	23	0-1
					2565	21400	21.76	23	0-1
	49			2505	20800	21.85	23	0-1	
				2535	21100	22.06	23	0-1	
				2565	21400	21.33	23	0-1	
	25 RB		0	2505	20800	20.52	22	0-2	
				2535	21100	20.53	22	0-2	
				2565	21400	20.70	22	0-2	
			12	2505	20800	20.64	22	0-2	
				2535	21100	20.77	22	0-2	
				2565	21400	20.33	22	0-2	
			25	2505	20800	20.65	22	0-2	
				2535	21100	20.95	22	0-2	
				2565	21400	20.29	22	0-2	
	50RB			2505	20800	20.43	22	0-2	
				2535	21100	20.46	22	0-2	
				2565	21400	20.65	22	0-2	

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FDD Band 7								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
10	64-QAM	1 RB	0	2505	20800	20.56	22	0-2
				2535	21100	20.87	22	0-2
				2565	21400	20.62	22	0-2
			25	2505	20800	20.70	22	0-2
				2535	21100	20.99	22	0-2
				2565	21400	20.35	22	0-2
			49	2505	20800	20.83	22	0-2
				2535	21100	21.04	22	0-2
				2565	21400	20.48	22	0-2
		25 RB	0	2505	20800	19.33	21	0-3
				2535	21100	19.38	21	0-3
				2565	21400	19.63	21	0-3
			12	2505	20800	19.67	21	0-3
				2535	21100	19.76	21	0-3
				2565	21400	19.38	21	0-3
			25	2505	20800	19.87	21	0-3
				2535	21100	20.00	21	0-3
				2565	21400	19.47	21	0-3
		50RB		2505	20800	19.82	21	0-3
				2535	21100	20.14	21	0-3
				2565	21400	19.36	21	0-3

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FDD Band 7									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted pow er (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allow ed per 3GPP(dB)	
5	QPSK	1 RB	0	2502.5	20775	22.44	24	0	
				2535	21100	22.80	24	0	
				2567.5	21425	22.75	24	0	
			12	2502.5	20775	22.64	24	0	
				2535	21100	22.82	24	0	
				2567.5	21425	22.78	24	0	
			24	2502.5	20775	23.04	24	0	
				2535	21100	22.97	24	0	
				2567.5	21425	22.59	24	0	
		12 RB	0	2502.5	20775	21.45	23	0-1	
				2535	21100	21.72	23	0-1	
				2567.5	21425	21.80	23	0-1	
			6	2502.5	20775	21.84	23	0-1	
				2535	21100	21.86	23	0-1	
				2567.5	21425	21.75	23	0-1	
			13	2502.5	20775	21.84	23	0-1	
				2535	21100	22.02	23	0-1	
				2567.5	21425	21.51	23	0-1	
		25RB			2502.5	20775	21.73	23	0-1
					2535	21100	21.79	23	0-1
					2567.5	21425	21.67	23	0-1
		16-QAM	1 RB	0	2502.5	20775	21.36	23	0-1
					2535	21100	21.58	23	0-1
					2567.5	21425	21.67	23	0-1
				12	2502.5	20775	21.58	23	0-1
					2535	21100	21.80	23	0-1
					2567.5	21425	21.73	23	0-1
				24	2502.5	20775	21.73	23	0-1
					2535	21100	21.98	23	0-1
					2567.5	21425	21.16	23	0-1
	12 RB			0	2502.5	20775	20.50	22	0-2
					2535	21100	20.35	22	0-2
					2567.5	21425	20.55	22	0-2
				6	2502.5	20775	20.54	22	0-2
					2535	21100	20.63	22	0-2
					2567.5	21425	20.29	22	0-2
			13	2502.5	20775	20.51	22	0-2	
				2535	21100	20.80	22	0-2	
				2567.5	21425	20.14	22	0-2	
	25RB			2502.5	20775	20.24	22	0-2	
				2535	21100	20.44	22	0-2	
				2567.5	21425	20.52	22	0-2	

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FDD Band 7								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
5	64-QAM	1 RB	0	2502.5	20775	20.38	22	0-2
				2535	21100	20.84	22	0-2
				2567.5	21425	20.48	22	0-2
			12	2502.5	20775	20.65	22	0-2
				2535	21100	20.86	22	0-2
				2567.5	21425	20.15	22	0-2
			24	2502.5	20775	20.80	22	0-2
				2535	21100	20.91	22	0-2
				2567.5	21425	20.36	22	0-2
		12 RB	0	2502.5	20775	19.30	21	0-3
				2535	21100	19.23	21	0-3
				2567.5	21425	19.52	21	0-3
			6	2502.5	20775	19.61	21	0-3
				2535	21100	19.68	21	0-3
				2567.5	21425	19.27	21	0-3
			13	2502.5	20775	19.68	21	0-3
				2535	21100	19.97	21	0-3
				2567.5	21425	19.39	21	0-3
		25RB		2502.5	20775	19.80	21	0-3
				2535	21100	20.07	21	0-3
				2567.5	21425	19.29	21	0-3

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FDD Band 12									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted pow er (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allow ed per 3GPP(dB)	
10	QPSK	1 RB	0	704	23060	22.65	24	0	
				707.5	23095	22.70	24	0	
				711	23130	22.81	24	0	
			25	704	23060	22.76	24	0	
				707.5	23095	22.82	24	0	
				711	23130	22.61	24	0	
			49	704	23060	22.89	24	0	
				707.5	23095	22.67	24	0	
				711	23130	22.71	24	0	
		25 RB	0	704	23060	21.69	23	0-1	
				707.5	23095	21.71	23	0-1	
				711	23130	21.65	23	0-1	
			12	704	23060	21.73	23	0-1	
				707.5	23095	21.77	23	0-1	
				711	23130	21.62	23	0-1	
			25	704	23060	21.84	23	0-1	
				707.5	23095	21.69	23	0-1	
				711	23130	21.58	23	0-1	
		50RB			704	23060	21.75	23	0-1
					707.5	23095	21.81	23	0-1
					711	23130	21.62	23	0-1
	16-QAM	1 RB	0	704	23060	21.90	23	0-1	
				707.5	23095	21.96	23	0-1	
				711	23130	22.10	23	0-1	
			25	704	23060	22.11	23	0-1	
				707.5	23095	22.16	23	0-1	
				711	23130	21.90	23	0-1	
			49	704	23060	22.17	23	0-1	
				707.5	23095	22.03	23	0-1	
				711	23130	22.01	23	0-1	
		25 RB	0	704	23060	20.67	22	0-2	
				707.5	23095	20.70	22	0-2	
				711	23130	20.67	22	0-2	
			12	704	23060	20.72	22	0-2	
				707.5	23095	20.79	22	0-2	
				711	23130	20.64	22	0-2	
			25	704	23060	20.83	22	0-2	
				707.5	23095	20.71	22	0-2	
				711	23130	20.57	22	0-2	
		50RB			704	23060	20.74	22	0-2
					707.5	23095	20.79	22	0-2
					711	23130	20.60	22	0-2

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FDD Band 12								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
10	64-QAM	1 RB	0	704	23060	21.81	22	0-2
				707.5	23095	21.83	22	0-2
				711	23130	21.93	22	0-2
			25	704	23060	21.93	22	0-2
				707.5	23095	21.96	22	0-2
				711	23130	21.73	22	0-2
			49	704	23060	22.00	22	0-2
				707.5	23095	21.79	22	0-2
				711	23130	21.85	22	0-2
		25 RB	0	704	23060	20.67	21	0-3
				707.5	23095	20.69	21	0-3
				711	23130	20.64	21	0-3
			12	704	23060	20.70	21	0-3
				707.5	23095	20.74	21	0-3
				711	23130	20.62	21	0-3
			25	704	23060	20.81	21	0-3
				707.5	23095	20.67	21	0-3
				711	23130	20.57	21	0-3
		50RB		704	23060	20.73	21	0-3
				707.5	23095	20.78	21	0-3
				711	23130	20.60	21	0-3

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FDD Band 12									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted pow er (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allow ed per 3GPP(dB)	
5	QPSK	1 RB	0	701.5	23035	22.47	24	0	
				707.5	23095	22.68	24	0	
				713.5	23155	22.72	24	0	
			12	701.5	23035	22.71	24	0	
				707.5	23095	22.68	24	0	
				713.5	23155	22.43	24	0	
			24	701.5	23035	22.72	24	0	
				707.5	23095	22.51	24	0	
				713.5	23155	22.63	24	0	
		12 RB	0	701.5	23035	21.56	23	0-1	
				707.5	23095	21.61	23	0-1	
				713.5	23155	21.47	23	0-1	
			6	701.5	23035	21.56	23	0-1	
				707.5	23095	21.68	23	0-1	
				713.5	23155	21.43	23	0-1	
			13	701.5	23035	21.80	23	0-1	
				707.5	23095	21.63	23	0-1	
				713.5	23155	21.38	23	0-1	
		25RB			701.5	23035	21.54	23	0-1
					707.5	23095	21.77	23	0-1
					713.5	23155	21.55	23	0-1
		16-QAM	1 RB	0	701.5	23035	21.86	23	0-1
					707.5	23095	21.80	23	0-1
					713.5	23155	21.94	23	0-1
				12	701.5	23035	21.96	23	0-1
					707.5	23095	22.11	23	0-1
					713.5	23155	21.82	23	0-1
	24			701.5	23035	22.09	23	0-1	
				707.5	23095	21.98	23	0-1	
				713.5	23155	21.90	23	0-1	
	12 RB			0	701.5	23035	20.62	22	0-2
					707.5	23095	20.58	22	0-2
					713.5	23155	20.56	22	0-2
			6	701.5	23035	20.52	22	0-2	
				707.5	23095	20.72	22	0-2	
				713.5	23155	20.61	22	0-2	
			13	701.5	23035	20.73	22	0-2	
				707.5	23095	20.55	22	0-2	
				713.5	23155	20.47	22	0-2	
	25RB			701.5	23035	20.56	22	0-2	
				707.5	23095	20.73	22	0-2	
				713.5	23155	20.45	22	0-2	

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FDD Band 12								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
5	64-QAM	1 RB	0	701.5	23035	21.69	22	0-2
				707.5	23095	21.80	22	0-2
				713.5	23155	21.85	22	0-2
			12	701.5	23035	21.78	22	0-2
				707.5	23095	21.90	22	0-2
				713.5	23155	21.69	22	0-2
			24	701.5	23035	21.86	22	0-2
				707.5	23095	21.59	22	0-2
				713.5	23155	21.72	22	0-2
		12 RB	0	701.5	23035	20.51	21	0-3
				707.5	23095	20.61	21	0-3
				713.5	23155	20.54	21	0-3
			6	701.5	23035	20.52	21	0-3
				707.5	23095	20.68	21	0-3
				713.5	23155	20.59	21	0-3
			13	701.5	23035	20.60	21	0-3
				707.5	23095	20.59	21	0-3
				713.5	23155	20.37	21	0-3
		25RB		701.5	23035	20.53	21	0-3
				707.5	23095	20.75	21	0-3
				713.5	23155	20.42	21	0-3

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FDD Band 12									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted pow er (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allow ed per 3GPP(dB)	
3	QPSK	1 RB	0	700.5	23025	22.28	24	0	
				707.5	23095	22.63	24	0	
				714.5	23165	22.65	24	0	
			7	700.5	23025	22.67	24	0	
				707.5	23095	22.55	24	0	
				714.5	23165	22.30	24	0	
			14	700.5	23025	22.58	24	0	
				707.5	23095	22.36	24	0	
				714.5	23165	22.53	24	0	
		8 RB	0	700.5	23025	21.36	23	0-1	
				707.5	23095	21.56	23	0-1	
				714.5	23165	21.36	23	0-1	
			4	700.5	23025	21.44	23	0-1	
				707.5	23095	21.48	23	0-1	
				714.5	23165	21.26	23	0-1	
			7	700.5	23025	21.69	23	0-1	
				707.5	23095	21.56	23	0-1	
				714.5	23165	21.25	23	0-1	
		15RB			700.5	23025	21.47	23	0-1
					707.5	23095	21.57	23	0-1
					714.5	23165	21.39	23	0-1
		16-QAM	1 RB	0	700.5	23025	21.76	23	0-1
					707.5	23095	21.66	23	0-1
					714.5	23165	21.82	23	0-1
				7	700.5	23025	21.91	23	0-1
					707.5	23095	21.97	23	0-1
					714.5	23165	21.80	23	0-1
	14			700.5	23025	21.97	23	0-1	
				707.5	23095	21.90	23	0-1	
				714.5	23165	21.78	23	0-1	
	8 RB			0	700.5	23025	20.57	22	0-2
					707.5	23095	20.51	22	0-2
					714.5	23165	20.39	22	0-2
			4	700.5	23025	20.43	22	0-2	
				707.5	23095	20.56	22	0-2	
				714.5	23165	20.53	22	0-2	
			7	700.5	23025	20.68	22	0-2	
				707.5	23095	20.42	22	0-2	
				714.5	23165	20.30	22	0-2	
	15RB			700.5	23025	20.45	22	0-2	
				707.5	23095	20.69	22	0-2	
				714.5	23165	20.32	22	0-2	

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FDD Band 12								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
3	64-QAM	1 RB	0	700.5	23025	21.60	22	0-2
				707.5	23095	21.63	22	0-2
				714.5	23165	21.81	22	0-2
			7	700.5	23025	21.66	22	0-2
				707.5	23095	21.71	22	0-2
				714.5	23165	21.64	22	0-2
			14	700.5	23025	21.71	22	0-2
				707.5	23095	21.46	22	0-2
				714.5	23165	21.53	22	0-2
		8 RB	0	700.5	23025	20.40	21	0-3
				707.5	23095	20.52	21	0-3
				714.5	23165	20.46	21	0-3
			4	700.5	23025	20.35	21	0-3
				707.5	23095	20.55	21	0-3
				714.5	23165	20.38	21	0-3
			7	700.5	23025	20.51	21	0-3
				707.5	23095	20.54	21	0-3
				714.5	23165	20.26	21	0-3
		15RB		700.5	23025	20.42	21	0-3
				707.5	23095	20.58	21	0-3
				714.5	23165	20.36	21	0-3

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FDD Band 12									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted pow er (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allow ed per 3GPP(dB)	
1.4	QPSK	1 RB	0	699.7	23017	22.67	24	0	
				707.5	23095	22.79	24	0	
				715.3	23173	22.57	24	0	
			2	699.7	23017	22.61	24	0	
				707.5	23095	22.77	24	0	
				715.3	23173	22.57	24	0	
			5	699.7	23017	22.67	24	0	
				707.5	23095	22.80	24	0	
				715.3	23173	22.60	24	0	
		3 RB	0	699.7	23017	22.63	24	0	
				707.5	23095	22.77	24	0	
				715.3	23173	22.56	24	0	
			2	699.7	23017	22.47	24	0	
				707.5	23095	22.75	24	0	
				715.3	23173	22.56	24	0	
			3	699.7	23017	22.63	24	0	
				707.5	23095	22.76	24	0	
				715.3	23173	22.57	24	0	
		6RB			699.7	23017	21.64	23	0-1
					707.5	23095	21.77	23	0-1
					715.3	23173	21.58	23	0-1
	16-QAM	1 RB	0	699.7	23017	21.97	23	0-1	
				707.5	23095	22.11	23	0-1	
				715.3	23173	21.86	23	0-1	
			2	699.7	23017	21.93	23	0-1	
				707.5	23095	22.07	23	0-1	
				715.3	23173	21.71	23	0-1	
			5	699.7	23017	21.92	23	0-1	
				707.5	23095	22.12	23	0-1	
				715.3	23173	21.92	23	0-1	
		3 RB	0	699.7	23017	21.72	23	0-1	
				707.5	23095	21.88	23	0-1	
				715.3	23173	21.64	23	0-1	
			2	699.7	23017	21.69	23	0-1	
				707.5	23095	21.87	23	0-1	
				715.3	23173	21.66	23	0-1	
			3	699.7	23017	21.56	23	0-1	
				707.5	23095	21.86	23	0-1	
				715.3	23173	21.67	23	0-1	
		6RB			699.7	23017	20.68	22	0-2
					707.5	23095	20.85	22	0-2
					715.3	23173	20.63	22	0-2

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FDD Band 12								
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	64-QAM	1 RB	0	699.7	23017	21.75	22	0-2
				707.5	23095	21.97	22	0-2
				715.3	23173	21.76	22	0-2
			2	699.7	23017	21.83	22	0-2
				707.5	23095	21.91	22	0-2
				715.3	23173	21.66	22	0-2
			5	699.7	23017	21.82	22	0-2
				707.5	23095	21.92	22	0-2
				715.3	23173	21.70	22	0-2
		3 RB	0	699.7	23017	21.70	22	0-2
				707.5	23095	21.86	22	0-2
				715.3	23173	21.67	22	0-2
			2	699.7	23017	21.67	22	0-2
				707.5	23095	21.85	22	0-2
				715.3	23173	21.59	22	0-2
			3	699.7	23017	21.71	22	0-2
				707.5	23095	21.85	22	0-2
				715.3	23173	21.67	22	0-2
		6RB		699.7	23017	20.69	21	0-3
				707.5	23095	20.81	21	0-3
				715.3	23173	20.57	21	0-3

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FDD Band 13								
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	22.52	24	0
			25	782	23230	22.67	24	0
			49	782	23230	22.64	24	0
		25 RB	0	782	23230	21.53	23	0-1
			12	782	23230	21.51	23	0-1
			25	782	23230	21.62	23	0-1
		50RB		782	23230	21.64	23	0-1
	16-QAM	1 RB	0	782	23230	21.86	23	0-1
			25	782	23230	22.02	23	0-1
			49	782	23230	21.98	23	0-1
		25 RB	0	782	23230	20.56	22	0-2
			12	782	23230	20.54	22	0-2
			25	782	23230	20.60	22	0-2
		50RB		782	23230	20.61	22	0-2
	64-QAM	1 RB	0	782	23230	21.71	22	0-2
			25	782	23230	21.87	22	0-2
			49	782	23230	21.80	22	0-2
		25 RB	0	782	23230	20.55	21	0-3
			12	782	23230	20.53	21	0-3
			25	782	23230	20.59	21	0-3
		50RB		782	23230	20.61	21	0-3

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FDD Band 13									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted pow er (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allow ed per 3GPP(dB)	
5	QPSK	1 RB	0	779.5	23205	22.42	24	0	
				782	23230	22.55	24	0	
				784.5	23255	22.59	24	0	
			12	779.5	23205	22.41	24	0	
				782	23230	22.65	24	0	
				784.5	23255	22.46	24	0	
			24	779.5	23205	22.45	24	0	
				782	23230	22.48	24	0	
				784.5	23255	22.50	24	0	
		12 RB	0	779.5	23205	21.49	23	0-1	
				782	23230	21.32	23	0-1	
				784.5	23255	21.34	23	0-1	
			6	779.5	23205	21.46	23	0-1	
				782	23230	21.37	23	0-1	
				784.5	23255	21.45	23	0-1	
			13	779.5	23205	21.50	23	0-1	
				782	23230	21.51	23	0-1	
				784.5	23255	21.35	23	0-1	
		25RB			779.5	23205	21.40	23	0-1
					782	23230	21.43	23	0-1
					784.5	23255	21.41	23	0-1
		16-QAM	1 RB	0	779.5	23205	21.41	23	0-1
					782	23230	21.38	23	0-1
					784.5	23255	21.49	23	0-1
				12	779.5	23205	21.40	23	0-1
					782	23230	21.48	23	0-1
					784.5	23255	21.33	23	0-1
	24			779.5	23205	21.51	23	0-1	
				782	23230	21.39	23	0-1	
				784.5	23255	21.34	23	0-1	
	12 RB			0	779.5	23205	20.47	22	0-2
					782	23230	20.51	22	0-2
					784.5	23255	20.42	22	0-2
				6	779.5	23205	20.45	22	0-2
					782	23230	21.55	22	0-2
					784.5	23255	21.67	22	0-2
			13	779.5	23205	21.60	22	0-2	
				782	23230	20.44	22	0-2	
				784.5	23255	20.44	22	0-2	
	25RB			779.5	23205	20.58	22	0-2	
				782	23230	20.51	22	0-2	
				784.5	23255	21.57	22	0-2	

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FDD Band 13								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
5	64-QAM	1 RB	0	779.5	23205	21.85	22	0-2
				782	23230	21.64	22	0-2
				784.5	23255	20.36	22	0-2
			12	779.5	23205	20.37	22	0-2
				782	23230	20.44	22	0-2
				784.5	23255	20.45	22	0-2
			24	779.5	23205	21.67	22	0-2
				782	23230	21.70	22	0-2
				784.5	23255	21.59	22	0-2
		12 RB	0	779.5	23205	20.44	21	0-3
				782	23230	20.49	21	0-3
				784.5	23255	20.44	21	0-3
			6	779.5	23205	20.50	21	0-3
				782	23230	20.51	21	0-3
				784.5	23255	20.46	21	0-3
			13	779.5	23205	20.44	21	0-3
				782	23230	20.53	21	0-3
				784.5	23255	20.34	21	0-3
		25RB		779.5	23205	20.39	21	0-3
				782	23230	20.49	21	0-3
				784.5	23255	20.58	21	0-3

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FDD Band 14								
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	793	23330	22.73	24	0
			25	793	23330	22.68	24	0
			49	793	23330	22.76	24	0
		25 RB	0	793	23330	21.64	23	0-1
			12	793	23330	21.66	23	0-1
			25	793	23330	21.74	23	0-1
		50RB		793	23330	21.67	23	0-1
	16-QAM	1 RB	0	793	23330	22.01	23	0-1
			25	793	23330	21.97	23	0-1
			49	793	23330	22.15	23	0-1
		25 RB	0	793	23330	20.64	22	0-2
			12	793	23330	20.63	22	0-2
			25	793	23330	20.75	22	0-2
		50RB		793	23330	20.68	22	0-2
	64-QAM	1 RB	0	793	23330	21.90	22	0-2
			25	793	23330	21.77	22	0-2
			49	793	23330	22.00	22	0-2
		25 RB	0	793	23330	20.64	21	0-3
			12	793	23330	20.61	21	0-3
			25	793	23330	20.73	21	0-3
		50RB		793	23330	20.68	21	0-3

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FDD Band 14									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted pow er (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allow ed per 3GPP(dB)	
5	QPSK	1 RB	0	790.5	23305	22.56	24	0	
				793	23330	22.59	24	0	
				795.5	23355	22.71	24	0	
			12	790.5	23305	22.67	24	0	
				793	23330	22.52	24	0	
				795.5	23355	22.59	24	0	
			24	790.5	23305	22.67	24	0	
				793	23330	22.59	24	0	
				795.5	23355	22.73	24	0	
		12 RB	0	790.5	23305	21.54	23	0-1	
				793	23330	21.59	23	0-1	
				795.5	23355	21.64	23	0-1	
			6	790.5	23305	21.59	23	0-1	
				793	23330	21.93	23	0-1	
				795.5	23355	21.82	23	0-1	
			13	790.5	23305	22.12	23	0-1	
				793	23330	21.53	23	0-1	
				795.5	23355	21.62	23	0-1	
		25RB		790.5	23305	21.63	23	0-1	
				793	23330	21.59	23	0-1	
				795.5	23355	21.83	23	0-1	
		16-QAM	1 RB	0	790.5	23305	21.85	23	0-1
					793	23330	22.12	23	0-1
					795.5	23355	21.60	23	0-1
	12			790.5	23305	21.63	23	0-1	
				793	23330	21.67	23	0-1	
				795.5	23355	21.65	23	0-1	
	24			790.5	23305	21.93	23	0-1	
				793	23330	21.90	23	0-1	
				795.5	23355	22.09	23	0-1	
	12 RB			0	790.5	23305	20.59	22	0-2
					793	23330	20.58	22	0-2
					795.5	23355	20.65	22	0-2
			6	790.5	23305	20.49	22	0-2	
				793	23330	21.72	22	0-2	
				795.5	23355	21.74	22	0-2	
			13	790.5	23305	21.92	22	0-2	
				793	23330	20.48	22	0-2	
				795.5	23355	20.58	22	0-2	
	25RB		790.5	23305	20.56	22	0-2		
			793	23330	20.59	22	0-2		
			795.5	23355	21.69	22	0-2		

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FDD Band 14								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
5	64-QAM	1 RB	0	790.5	23305	21.63	22	0-2
				793	23330	21.83	22	0-2
				795.5	23355	20.46	22	0-2
			12	790.5	23305	20.61	22	0-2
				793	23330	20.58	22	0-2
				795.5	23355	20.66	22	0-2
			24	790.5	23305	21.81	22	0-2
				793	23330	21.74	22	0-2
				795.5	23355	21.85	22	0-2
		12 RB	0	790.5	23305	20.60	21	0-3
				793	23330	20.55	21	0-3
				795.5	23355	20.59	21	0-3
			6	790.5	23305	20.63	21	0-3
				793	23330	20.59	21	0-3
				795.5	23355	20.41	21	0-3
			13	790.5	23305	20.69	21	0-3
				793	23330	20.49	21	0-3
				795.5	23355	20.44	21	0-3
		25RB		790.5	23305	20.57	21	0-3
				793	23330	20.69	21	0-3
				795.5	23355	20.52	21	0-3

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FDD Band 17									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted pow er (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allow ed per 3GPP(dB)	
10	QPSK	1 RB	0	709	23780	22.74	24	0	
				710	23790	22.71	24	0	
				711	23800	22.78	24	0	
			25	709	23780	22.69	24	0	
				710	23790	22.66	24	0	
				711	23800	22.59	24	0	
			49	709	23780	22.65	24	0	
				710	23790	22.68	24	0	
				711	23800	22.67	24	0	
		25 RB	0	709	23780	21.76	23	0-1	
				710	23790	21.73	23	0-1	
				711	23800	21.64	23	0-1	
			12	709	23780	21.65	23	0-1	
				710	23790	21.63	23	0-1	
				711	23800	21.61	23	0-1	
			25	709	23780	21.58	23	0-1	
				710	23790	21.64	23	0-1	
				711	23800	21.58	23	0-1	
		50RB			709	23780	21.71	23	0-1
					710	23790	21.70	23	0-1
					711	23800	21.62	23	0-1
	16-QAM	1 RB	0	709	23780	22.04	23	0-1	
				710	23790	22.06	23	0-1	
				711	23800	22.07	23	0-1	
			25	709	23780	22.01	23	0-1	
				710	23790	22.02	23	0-1	
				711	23800	21.94	23	0-1	
			49	709	23780	21.97	23	0-1	
				710	23790	21.98	23	0-1	
				711	23800	21.99	23	0-1	
		25 RB	0	709	23780	20.76	22	0-2	
				710	23790	20.74	22	0-2	
				711	23800	20.64	22	0-2	
			12	709	23780	20.67	22	0-2	
				710	23790	20.63	22	0-2	
				711	23800	20.61	22	0-2	
			25	709	23780	20.58	22	0-2	
				710	23790	20.63	22	0-2	
				711	23800	20.56	22	0-2	
		50RB			709	23780	20.67	22	0-2
					710	23790	20.67	22	0-2
					711	23800	20.59	22	0-2

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FDD Band 17								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
10	64-QAM	1 RB	0	709	23780	21.96	22	0-2
				710	23790	21.91	22	0-2
				711	23800	21.90	22	0-2
			25	709	23780	21.85	22	0-2
				710	23790	21.84	22	0-2
				711	23800	21.76	22	0-2
			49	709	23780	21.76	22	0-2
				710	23790	21.81	22	0-2
				711	23800	21.82	22	0-2
		25 RB	0	709	23780	20.74	21	0-3
				710	23790	20.73	21	0-3
				711	23800	20.64	21	0-3
			12	709	23780	20.65	21	0-3
				710	23790	20.64	21	0-3
				711	23800	20.61	21	0-3
			25	709	23780	20.56	21	0-3
				710	23790	20.62	21	0-3
				711	23800	20.57	21	0-3
		50RB		709	23780	20.67	21	0-3
				710	23790	20.66	21	0-3
				711	23800	20.58	21	0-3

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FDD Band 17								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted pow er (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allow ed per 3GPP(dB)
5	QPSK	1 RB	0	706.5	23755	22.72	24	0
				710	23790	22.65	24	0
				713.5	23825	22.69	24	0
			12	706.5	23755	22.66	24	0
				710	23790	22.59	24	0
				713.5	23825	22.44	24	0
			24	706.5	23755	22.49	24	0
				710	23790	22.47	24	0
				713.5	23825	22.59	24	0
		12 RB	0	706.5	23755	21.63	23	0-1
				710	23790	21.68	23	0-1
				713.5	23825	21.59	23	0-1
			6	706.5	23755	21.45	23	0-1
				710	23790	21.46	23	0-1
				713.5	23825	21.52	23	0-1
			13	706.5	23755	21.53	23	0-1
				710	23790	21.60	23	0-1
				713.5	23825	21.47	23	0-1
		25RB		706.5	23755	21.52	23	0-1
				710	23790	21.56	23	0-1
				713.5	23825	21.43	23	0-1
	16-QAM	1 RB	0	706.5	23755	21.92	23	0-1
				710	23790	21.97	23	0-1
				713.5	23825	21.87	23	0-1
			12	706.5	23755	21.82	23	0-1
				710	23790	21.96	23	0-1
				713.5	23825	21.84	23	0-1
			24	706.5	23755	21.78	23	0-1
				710	23790	21.83	23	0-1
				713.5	23825	21.84	23	0-1
		12 RB	0	706.5	23755	20.70	22	0-2
				710	23790	20.68	22	0-2
				713.5	23825	20.56	22	0-2
			6	706.5	23755	20.58	22	0-2
				710	23790	20.61	22	0-2
				713.5	23825	20.47	22	0-2
			13	706.5	23755	20.38	22	0-2
				710	23790	20.42	22	0-2
				713.5	23825	20.42	22	0-2
		25RB		706.5	23755	20.60	22	0-2
				710	23790	20.61	22	0-2
				713.5	23825	20.40	22	0-2

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FDD Band 17								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
5	64-QAM	1 RB	0	706.5	23755	21.81	22	0-2
				710	23790	21.79	22	0-2
				713.5	23825	21.69	22	0-2
			12	706.5	23755	21.80	22	0-2
				710	23790	21.63	22	0-2
				713.5	23825	21.55	22	0-2
			24	706.5	23755	21.67	22	0-2
				710	23790	21.67	22	0-2
				713.5	23825	21.75	22	0-2
		12 RB	0	706.5	23755	20.65	21	0-3
				710	23790	20.55	21	0-3
				713.5	23825	20.50	21	0-3
			6	706.5	23755	20.57	21	0-3
				710	23790	20.54	21	0-3
				713.5	23825	20.57	21	0-3
			13	706.5	23755	20.53	21	0-3
				710	23790	20.44	21	0-3
				713.5	23825	20.46	21	0-3
		25RB		706.5	23755	20.64	21	0-3
				710	23790	20.55	21	0-3
				713.5	23825	20.49	21	0-3

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FDD Band 25									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted pow er (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allow ed per 3GPP(dB)	
20	QPSK	1 RB	0	1860	26140	23.12	24	0	
				1882.5	26365	23.09	24	0	
				1905	26590	23.08	24	0	
			50	1860	26140	22.88	24	0	
				1882.5	26365	22.91	24	0	
				1905	26590	22.86	24	0	
			99	1860	26140	22.93	24	0	
				1882.5	26365	22.95	24	0	
				1905	26590	23.06	24	0	
		50 RB	0	1860	26140	21.97	23	0-1	
				1882.5	26365	22.15	23	0-1	
				1905	26590	22.05	23	0-1	
			25	1860	26140	21.93	23	0-1	
				1882.5	26365	21.96	23	0-1	
				1905	26590	21.90	23	0-1	
			50	1860	26140	21.93	23	0-1	
				1882.5	26365	21.82	23	0-1	
				1905	26590	22.02	23	0-1	
		100RB			1860	26140	22.01	23	0-1
					1882.5	26365	22.04	23	0-1
					1905	26590	22.02	23	0-1
		16-QAM	1 RB	0	1860	26140	22.35	23	0-1
					1882.5	26365	22.43	23	0-1
					1905	26590	22.40	23	0-1
				50	1860	26140	22.24	23	0-1
					1882.5	26365	22.19	23	0-1
					1905	26590	22.21	23	0-1
	99			1860	26140	22.38	23	0-1	
				1882.5	26365	22.28	23	0-1	
				1905	26590	22.44	23	0-1	
	50 RB			0	1860	26140	20.97	22	0-2
					1882.5	26365	21.14	22	0-2
					1905	26590	21.04	22	0-2
			25	1860	26140	20.94	22	0-2	
				1882.5	26365	20.97	22	0-2	
				1905	26590	20.92	22	0-2	
			50	1860	26140	20.93	22	0-2	
				1882.5	26365	20.83	22	0-2	
				1905	26590	21.02	22	0-2	
	100RB			1860	26140	21.01	22	0-2	
				1882.5	26365	21.03	22	0-2	
				1905	26590	20.99	22	0-2	

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FDD Band 25								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
20	64-QAM	1 RB	0	1860	26140	21.81	22	0-2
				1882.5	26365	21.75	22	0-2
				1905	26590	21.68	22	0-2
			50	1860	26140	21.68	22	0-2
				1882.5	26365	21.54	22	0-2
				1905	26590	21.54	22	0-2
			99	1860	26140	21.66	22	0-2
				1882.5	26365	21.63	22	0-2
				1905	26590	21.68	22	0-2
		50 RB	0	1860	26140	20.48	21	0-3
				1882.5	26365	20.63	21	0-3
				1905	26590	20.54	21	0-3
			25	1860	26140	20.44	21	0-3
				1882.5	26365	20.46	21	0-3
				1905	26590	20.42	21	0-3
			50	1860	26140	20.42	21	0-3
				1882.5	26365	20.33	21	0-3
				1905	26590	20.52	21	0-3
		100RB		1860	26140	20.51	21	0-3
				1882.5	26365	20.52	21	0-3
				1905	26590	20.48	21	0-3

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FDD Band 25								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted pow er (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allow ed per 3GPP(dB)
15	QPSK	1 RB	0	1857.5	26115	23.08	24	0
				1882.5	26365	23.00	24	0
				1907.5	26615	23.04	24	0
			36	1857.5	26115	22.81	24	0
				1882.5	26365	22.81	24	0
				1907.5	26615	22.72	24	0
			74	1857.5	26115	22.80	24	0
				1882.5	26365	22.77	24	0
				1907.5	26615	23.00	24	0
		36 RB	0	1857.5	26115	21.88	23	0-1
				1882.5	26365	21.96	23	0-1
				1907.5	26615	21.99	23	0-1
			18	1857.5	26115	21.83	23	0-1
				1882.5	26365	21.82	23	0-1
				1907.5	26615	21.72	23	0-1
			37	1857.5	26115	21.87	23	0-1
				1882.5	26365	21.68	23	0-1
				1907.5	26615	21.88	23	0-1
		75RB	1857.5	26115	21.84	23	0-1	
			1882.5	26365	21.92	23	0-1	
			1907.5	26615	21.83	23	0-1	
	16-QAM	1 RB	0	1857.5	26115	22.19	23	0-1
				1882.5	26365	22.38	23	0-1
				1907.5	26615	22.20	23	0-1
			36	1857.5	26115	22.12	23	0-1
				1882.5	26365	22.09	23	0-1
				1907.5	26615	22.15	23	0-1
			74	1857.5	26115	22.32	23	0-1
				1882.5	26365	22.22	23	0-1
				1907.5	26615	22.42	23	0-1
		36 RB	0	1857.5	26115	20.79	22	0-2
				1882.5	26365	21.07	22	0-2
				1907.5	26615	21.01	22	0-2
			18	1857.5	26115	20.80	22	0-2
				1882.5	26365	20.91	22	0-2
				1907.5	26615	20.85	22	0-2
			37	1857.5	26115	20.89	22	0-2
				1882.5	26365	20.66	22	0-2
				1907.5	26615	20.95	22	0-2
		75RB	1857.5	26115	20.87	22	0-2	
			1882.5	26365	20.99	22	0-2	
			1907.5	26615	20.90	22	0-2	

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FDD Band 25								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
15	64-QAM	1 RB	0	1857.5	26115	21.63	22	0-2
				1882.5	26365	21.68	22	0-2
				1907.5	26615	21.55	22	0-2
			36	1857.5	26115	21.51	22	0-2
				1882.5	26365	21.45	22	0-2
				1907.5	26615	21.40	22	0-2
			74	1857.5	26115	21.48	22	0-2
				1882.5	26365	21.55	22	0-2
				1907.5	26615	21.61	22	0-2
		36 RB	0	1857.5	26115	20.45	21	0-3
				1882.5	26365	20.44	21	0-3
				1907.5	26615	20.51	21	0-3
			18	1857.5	26115	20.30	21	0-3
				1882.5	26365	20.39	21	0-3
				1907.5	26615	20.29	21	0-3
			37	1857.5	26115	20.39	21	0-3
				1882.5	26365	20.19	21	0-3
				1907.5	26615	20.35	21	0-3
		75RB		1857.5	26115	20.41	21	0-3
				1882.5	26365	20.47	21	0-3
				1907.5	26615	20.29	21	0-3

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FDD Band 25									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted pow er (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allow ed per 3GPP(dB)	
10	QPSK	1 RB	0	1855	26090	23.05	24	0	
				1882.5	26365	22.80	24	0	
				1910	26640	23.01	24	0	
			25	1855	26090	22.75	24	0	
				1882.5	26365	22.71	24	0	
				1910	26640	22.64	24	0	
			49	1855	26090	22.59	24	0	
				1882.5	26365	22.66	24	0	
				1910	26640	22.84	24	0	
		25 RB	0	1855	26090	21.69	23	0-1	
				1882.5	26365	21.92	23	0-1	
				1910	26640	21.86	23	0-1	
			12	1855	26090	21.78	23	0-1	
				1882.5	26365	21.77	23	0-1	
				1910	26640	21.65	23	0-1	
			25	1855	26090	21.72	23	0-1	
				1882.5	26365	21.62	23	0-1	
				1910	26640	21.78	23	0-1	
		50RB			1855	26090	21.67	23	0-1
					1882.5	26365	21.87	23	0-1
					1910	26640	21.75	23	0-1
		16-QAM	1 RB	0	1855	26090	22.06	23	0-1
					1882.5	26365	22.26	23	0-1
					1910	26640	22.16	23	0-1
				25	1855	26090	22.06	23	0-1
					1882.5	26365	21.97	23	0-1
					1910	26640	22.04	23	0-1
	49			1855	26090	22.23	23	0-1	
				1882.5	26365	22.18	23	0-1	
				1910	26640	22.25	23	0-1	
	25 RB		0	1855	26090	20.64	22	0-2	
				1882.5	26365	21.05	22	0-2	
				1910	26640	20.87	22	0-2	
			12	1855	26090	20.60	22	0-2	
				1882.5	26365	20.73	22	0-2	
				1910	26640	20.71	22	0-2	
			25	1855	26090	20.84	22	0-2	
				1882.5	26365	20.46	22	0-2	
				1910	26640	20.79	22	0-2	
	50RB			1855	26090	20.84	22	0-2	
				1882.5	26365	20.97	22	0-2	
				1910	26640	20.84	22	0-2	

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FDD Band 25								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
10	64-QAM	1 RB	0	1855	26090	21.52	22	0-2
				1882.5	26365	21.54	22	0-2
				1910	26640	21.36	22	0-2
			25	1855	26090	21.42	22	0-2
				1882.5	26365	21.30	22	0-2
				1910	26640	21.38	22	0-2
			49	1855	26090	21.28	22	0-2
				1882.5	26365	21.53	22	0-2
				1910	26640	21.54	22	0-2
		25 RB	0	1855	26090	20.42	21	0-3
				1882.5	26365	20.23	21	0-3
				1910	26640	20.44	21	0-3
			12	1855	26090	20.15	21	0-3
				1882.5	26365	20.26	21	0-3
				1910	26640	20.14	21	0-3
			25	1855	26090	20.21	21	0-3
				1882.5	26365	20.02	21	0-3
				1910	26640	20.15	21	0-3
		50RB		1855	26090	20.36	21	0-3
				1882.5	26365	20.33	21	0-3
				1910	26640	20.23	21	0-3

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FDD Band 25									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted pow er (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allow ed per 3GPP(dB)	
5	QPSK	1 RB	0	1852.5	26065	22.95	24	0	
				1882.5	26365	22.67	24	0	
				1912.5	26665	22.86	24	0	
			12	1852.5	26065	22.72	24	0	
				1882.5	26365	22.61	24	0	
				1912.5	26665	22.59	24	0	
			24	1852.5	26065	22.48	24	0	
				1882.5	26365	22.61	24	0	
				1912.5	26665	22.68	24	0	
		12 RB	0	1852.5	26065	21.59	23	0-1	
				1882.5	26365	21.88	23	0-1	
				1912.5	26665	21.75	23	0-1	
			6	1852.5	26065	21.71	23	0-1	
				1882.5	26365	21.68	23	0-1	
				1912.5	26665	21.44	23	0-1	
			13	1852.5	26065	21.58	23	0-1	
				1882.5	26365	21.57	23	0-1	
				1912.5	26665	21.61	23	0-1	
		25RB			1852.5	26065	21.60	23	0-1
					1882.5	26365	21.76	23	0-1
					1912.5	26665	21.64	23	0-1
		16-QAM	1 RB	0	1852.5	26065	22.00	23	0-1
					1882.5	26365	22.13	23	0-1
					1912.5	26665	22.13	23	0-1
				12	1852.5	26065	22.02	23	0-1
					1882.5	26365	21.80	23	0-1
					1912.5	26665	21.99	23	0-1
	24			1852.5	26065	22.06	23	0-1	
				1882.5	26365	21.97	23	0-1	
				1912.5	26665	22.09	23	0-1	
	12 RB			0	1852.5	26065	20.54	22	0-2
					1882.5	26365	20.97	22	0-2
					1912.5	26665	20.83	22	0-2
				6	1852.5	26065	20.54	22	0-2
					1882.5	26365	20.52	22	0-2
					1912.5	26665	20.55	22	0-2
			13	1852.5	26065	20.78	22	0-2	
				1882.5	26365	20.41	22	0-2	
				1912.5	26665	20.61	22	0-2	
	25RB			1852.5	26065	20.77	22	0-2	
				1882.5	26365	20.80	22	0-2	
				1912.5	26665	20.79	22	0-2	

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FDD Band 25								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
5	64-QAM	1 RB	0	1852.5	26065	21.40	22	0-2
				1882.5	26365	21.41	22	0-2
				1912.5	26665	21.31	22	0-2
			12	1852.5	26065	21.21	22	0-2
				1882.5	26365	21.26	22	0-2
				1912.5	26665	21.17	22	0-2
			24	1852.5	26065	21.21	22	0-2
				1882.5	26365	21.47	22	0-2
				1912.5	26665	21.34	22	0-2
		12 RB	0	1852.5	26065	20.36	21	0-3
				1882.5	26365	20.02	21	0-3
				1912.5	26665	20.23	21	0-3
			6	1852.5	26065	20.02	21	0-3
				1882.5	26365	20.17	21	0-3
				1912.5	26665	20.02	21	0-3
			13	1852.5	26065	20.19	21	0-3
				1882.5	26365	19.86	21	0-3
				1912.5	26665	20.13	21	0-3
		25RB		1852.5	26065	20.19	21	0-3
				1882.5	26365	20.22	21	0-3
				1912.5	26665	20.04	21	0-3

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FDD Band 25									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted pow er (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allow ed per 3GPP(dB)	
3	QPSK	1 RB	0	1851.5	26055	22.78	24	0	
				1882.5	26365	22.59	24	0	
				1913.5	26675	22.68	24	0	
			7	1851.5	26055	22.66	24	0	
				1882.5	26365	22.56	24	0	
				1913.5	26675	22.41	24	0	
			14	1851.5	26055	22.34	24	0	
				1882.5	26365	22.45	24	0	
				1913.5	26675	22.60	24	0	
		8 RB	0	1851.5	26055	21.49	23	0-1	
				1882.5	26365	21.68	23	0-1	
				1913.5	26675	21.58	23	0-1	
			4	1851.5	26055	21.61	23	0-1	
				1882.5	26365	21.54	23	0-1	
				1913.5	26675	21.29	23	0-1	
			7	1851.5	26055	21.44	23	0-1	
				1882.5	26365	21.40	23	0-1	
				1913.5	26675	21.56	23	0-1	
		15RB			1851.5	26055	21.52	23	0-1
					1882.5	26365	21.61	23	0-1
					1913.5	26675	21.59	23	0-1
		16-QAM	1 RB	0	1851.5	26055	21.80	23	0-1
					1882.5	26365	22.06	23	0-1
					1913.5	26675	21.92	23	0-1
				7	1851.5	26055	21.86	23	0-1
					1882.5	26365	21.78	23	0-1
					1913.5	26675	21.89	23	0-1
	14			1851.5	26055	21.94	23	0-1	
				1882.5	26365	21.82	23	0-1	
				1913.5	26675	22.05	23	0-1	
	8 RB		0	1851.5	26055	20.47	22	0-2	
				1882.5	26365	20.90	22	0-2	
				1913.5	26675	20.72	22	0-2	
			4	1851.5	26055	20.36	22	0-2	
				1882.5	26365	20.48	22	0-2	
				1913.5	26675	20.46	22	0-2	
			7	1851.5	26055	20.62	22	0-2	
				1882.5	26365	20.20	22	0-2	
				1913.5	26675	20.46	22	0-2	
	15RB			1851.5	26055	20.60	22	0-2	
				1882.5	26365	20.72	22	0-2	
				1913.5	26675	20.69	22	0-2	

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FDD Band 25								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
3	64-QAM	1 RB	0	1851.5	26055	21.24	22	0-2
				1882.5	26365	21.36	22	0-2
				1913.5	26675	21.28	22	0-2
			7	1851.5	26055	21.01	22	0-2
				1882.5	26365	21.10	22	0-2
				1913.5	26675	21.00	22	0-2
			14	1851.5	26055	21.06	22	0-2
				1882.5	26365	21.27	22	0-2
				1913.5	26675	21.14	22	0-2
		8 RB	0	1851.5	26055	20.26	21	0-3
				1882.5	26365	19.83	21	0-3
				1913.5	26675	20.19	21	0-3
			4	1851.5	26055	20.00	21	0-3
				1882.5	26365	20.09	21	0-3
				1913.5	26675	19.86	21	0-3
			7	1851.5	26055	20.04	21	0-3
				1882.5	26365	19.74	21	0-3
				1913.5	26675	20.03	21	0-3
		15RB		1851.5	26055	20.14	21	0-3
				1882.5	26365	20.03	21	0-3
				1913.5	26675	19.84	21	0-3

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FDD Band 25									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted pow er (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allow ed per 3GPP(dB)	
1.4	QPSK	1 RB	0	1850.7	26047	22.99	24	0	
				1882.5	26365	22.98	24	0	
				1914.3	26683	22.99	24	0	
			2	1850.7	26047	22.96	24	0	
				1882.5	26365	22.94	24	0	
				1914.3	26683	23.00	24	0	
			5	1850.7	26047	23.02	24	0	
				1882.5	26365	22.88	24	0	
				1914.3	26683	22.92	24	0	
		3 RB	0	1850.7	26047	22.92	24	0	
				1882.5	26365	22.88	24	0	
				1914.3	26683	22.88	24	0	
			2	1850.7	26047	22.78	24	0	
				1882.5	26365	22.79	24	0	
				1914.3	26683	22.84	24	0	
			3	1850.7	26047	22.93	24	0	
				1882.5	26365	22.49	24	0	
				1914.3	26683	22.82	24	0	
		6RB			1850.7	26047	21.93	23	0-1
					1882.5	26365	21.80	23	0-1
					1914.3	26683	21.89	23	0-1
	16-QAM	1 RB	0	1850.7	26047	22.25	23	0-1	
				1882.5	26365	22.23	23	0-1	
				1914.3	26683	22.27	23	0-1	
			2	1850.7	26047	22.27	23	0-1	
				1882.5	26365	22.23	23	0-1	
				1914.3	26683	22.03	23	0-1	
			5	1850.7	26047	22.30	23	0-1	
				1882.5	26365	22.02	23	0-1	
				1914.3	26683	22.21	23	0-1	
		3 RB	0	1850.7	26047	21.97	23	0-1	
				1882.5	26365	21.90	23	0-1	
				1914.3	26683	21.93	23	0-1	
			2	1850.7	26047	21.99	23	0-1	
				1882.5	26365	21.85	23	0-1	
				1914.3	26683	21.93	23	0-1	
			3	1850.7	26047	21.85	23	0-1	
				1882.5	26365	21.82	23	0-1	
				1914.3	26683	21.87	23	0-1	
		6RB			1850.7	26047	20.89	22	0-2
					1882.5	26365	20.75	22	0-2
					1914.3	26683	20.85	22	0-2

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FDD Band 25								
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	64-QAM	1 RB	0	1850.7	26047	21.81	22	0-2
				1882.5	26365	21.69	22	0-2
				1914.3	26683	21.82	22	0-2
			2	1850.7	26047	21.82	22	0-2
				1882.5	26365	21.74	22	0-2
				1914.3	26683	21.74	22	0-2
			5	1850.7	26047	21.72	22	0-2
				1882.5	26365	21.71	22	0-2
				1914.3	26683	21.78	22	0-2
		3 RB	0	1850.7	26047	21.70	22	0-2
				1882.5	26365	21.64	22	0-2
				1914.3	26683	21.68	22	0-2
			2	1850.7	26047	21.63	22	0-2
				1882.5	26365	21.55	22	0-2
				1914.3	26683	21.58	22	0-2
			3	1850.7	26047	21.71	22	0-2
				1882.5	26365	21.52	22	0-2
				1914.3	26683	21.61	22	0-2
		6RB		1850.7	26047	20.54	21	0-3
				1882.5	26365	20.41	21	0-3
				1914.3	26683	20.52	21	0-3

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FDD Band 26									
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	821.5	26765	23.79	25	0	
				831.5	26865	23.87	25	0	
				841.5	26965	23.91	25	0	
			36	821.5	26765	23.86	25	0	
				831.5	26865	23.86	25	0	
				841.5	26965	23.85	25	0	
			74	821.5	26765	23.85	25	0	
				831.5	26865	23.83	25	0	
				841.5	26965	23.84	25	0	
		36 RB	0	821.5	26765	22.84	24	0-1	
				831.5	26865	22.79	24	0-1	
				841.5	26965	22.84	24	0-1	
			18	821.5	26765	22.87	24	0-1	
				831.5	26865	22.88	24	0-1	
				841.5	26965	22.85	24	0-1	
			37	821.5	26765	22.83	24	0-1	
				831.5	26865	22.86	24	0-1	
				841.5	26965	22.83	24	0-1	
		75RB			821.5	26765	22.90	24	0-1
					831.5	26865	22.92	24	0-1
					841.5	26965	22.93	24	0-1
		16-QAM	1 RB	0	821.5	26765	22.16	24	0-1
					831.5	26865	22.08	24	0-1
					841.5	26965	22.16	24	0-1
				36	821.5	26765	22.21	24	0-1
					831.5	26865	22.13	24	0-1
					841.5	26965	22.15	24	0-1
	74			821.5	26765	22.11	24	0-1	
				831.5	26865	22.18	24	0-1	
				841.5	26965	22.09	24	0-1	
	36 RB		0	821.5	26765	21.85	23	0-2	
				831.5	26865	21.77	23	0-2	
				841.5	26965	21.84	23	0-2	
			18	821.5	26765	21.87	23	0-2	
				831.5	26865	21.88	23	0-2	
				841.5	26965	21.87	23	0-2	
			37	821.5	26765	21.82	23	0-2	
				831.5	26865	21.85	23	0-2	
				841.5	26965	21.80	23	0-2	
	75RB			821.5	26765	21.89	23	0-2	
				831.5	26865	21.91	23	0-2	
				841.5	26965	21.91	23	0-2	

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FDD Band 26								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
15	64-QAM	1 RB	0	821.5	26765	21.93	23	0-2
				831.5	26865	21.91	23	0-2
				841.5	26965	21.97	23	0-2
			36	821.5	26765	22.00	23	0-2
				831.5	26865	22.00	23	0-2
				841.5	26965	22.00	23	0-2
			74	821.5	26765	21.92	23	0-2
				831.5	26865	22.02	23	0-2
				841.5	26965	21.93	23	0-2
		36 RB	0	821.5	26765	20.84	22	0-3
				831.5	26865	20.76	22	0-3
				841.5	26965	20.83	22	0-3
			18	821.5	26765	20.86	22	0-3
				831.5	26865	20.87	22	0-3
				841.5	26965	20.85	22	0-3
			37	821.5	26765	20.82	22	0-3
				831.5	26865	20.84	22	0-3
				841.5	26965	20.77	22	0-3
		75RB		821.5	26765	20.87	22	0-3
				831.5	26865	20.92	22	0-3
				841.5	26965	20.89	22	0-3

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FDD Band 26									
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	819	26740	23.74	25	0	
				831.5	26865	23.75	25	0	
				844	26990	23.86	25	0	
			25	819	26740	23.77	25	0	
				831.5	26865	23.77	25	0	
				844	26990	23.73	25	0	
			49	819	26740	23.70	25	0	
				831.5	26865	23.80	25	0	
				844	26990	23.71	25	0	
		25 RB	0	819	26740	22.78	24	0-1	
				831.5	26865	22.69	24	0-1	
				844	26990	22.81	24	0-1	
			12	819	26740	22.78	24	0-1	
				831.5	26865	22.75	24	0-1	
				844	26990	22.82	24	0-1	
			25	819	26740	22.65	24	0-1	
				831.5	26865	22.71	24	0-1	
				844	26990	22.68	24	0-1	
		50RB			819	26740	22.80	24	0-1
					831.5	26865	22.75	24	0-1
					844	26990	22.85	24	0-1
	16-QAM	1 RB	0	819	26740	22.82	24	0-1	
				831.5	26865	22.72	24	0-1	
				844	26990	22.76	24	0-1	
			25	819	26740	22.89	24	0-1	
				831.5	26865	22.89	24	0-1	
				844	26990	22.75	24	0-1	
			49	819	26740	22.79	24	0-1	
				831.5	26865	22.85	24	0-1	
				844	26990	22.71	24	0-1	
		25 RB	0	819	26740	21.73	23	0-2	
				831.5	26865	21.61	23	0-2	
				844	26990	21.78	23	0-2	
			12	819	26740	21.78	23	0-2	
				831.5	26865	21.80	23	0-2	
				844	26990	21.70	23	0-2	
			25	819	26740	21.78	23	0-2	
				831.5	26865	21.80	23	0-2	
				844	26990	21.68	23	0-2	
		50RB			819	26740	21.84	23	0-2
					831.5	26865	21.74	23	0-2
					844	26990	21.75	23	0-2

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FDD Band 26								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
10	64-QAM	1 RB	0	819	26740	21.88	23	0-2
				831.5	26865	21.71	23	0-2
				844	26990	21.85	23	0-2
			25	819	26740	21.94	23	0-2
				831.5	26865	21.82	23	0-2
				844	26990	21.92	23	0-2
			49	819	26740	21.86	23	0-2
				831.5	26865	21.81	23	0-2
				844	26990	21.80	23	0-2
		25 RB	0	819	26740	20.80	22	0-3
				831.5	26865	20.66	22	0-3
				844	26990	20.70	22	0-3
			12	819	26740	20.82	22	0-3
				831.5	26865	20.66	22	0-3
				844	26990	20.77	22	0-3
			25	819	26740	20.77	22	0-3
				831.5	26865	20.66	22	0-3
				844	26990	20.72	22	0-3
		50RB		819	26740	20.82	22	0-3
				831.5	26865	20.75	22	0-3
				844	26990	20.85	22	0-3

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FDD Band 26									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted pow er (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allow ed per 3GPP(dB)	
5	QPSK	1 RB	0	816.5	26715	23.59	25	0	
				831.5	26865	23.61	25	0	
				846.5	27015	23.68	25	0	
			12	816.5	26715	23.75	25	0	
				831.5	26865	23.68	25	0	
				846.5	27015	23.63	25	0	
			24	816.5	26715	23.56	25	0	
				831.5	26865	23.64	25	0	
				846.5	27015	23.52	25	0	
		12 RB	0	816.5	26715	22.61	24	0-1	
				831.5	26865	22.63	24	0-1	
				846.5	27015	22.72	24	0-1	
			6	816.5	26715	22.66	24	0-1	
				831.5	26865	22.65	24	0-1	
				846.5	27015	22.79	24	0-1	
			13	816.5	26715	22.54	24	0-1	
				831.5	26865	22.57	24	0-1	
				846.5	27015	22.55	24	0-1	
		25RB			816.5	26715	22.64	24	0-1
					831.5	26865	22.55	24	0-1
					846.5	27015	22.74	24	0-1
	16-QAM	1 RB	0	816.5	26715	22.78	24	0-1	
				831.5	26865	22.58	24	0-1	
				846.5	27015	22.63	24	0-1	
			12	816.5	26715	22.69	24	0-1	
				831.5	26865	22.74	24	0-1	
				846.5	27015	22.60	24	0-1	
			24	816.5	26715	22.59	24	0-1	
				831.5	26865	22.76	24	0-1	
				846.5	27015	22.55	24	0-1	
		12 RB	0	816.5	26715	21.66	23	0-2	
				831.5	26865	21.46	23	0-2	
				846.5	27015	21.57	23	0-2	
			6	816.5	26715	21.72	23	0-2	
				831.5	26865	21.77	23	0-2	
				846.5	27015	21.51	23	0-2	
			13	816.5	26715	21.69	23	0-2	
				831.5	26865	21.63	23	0-2	
				846.5	27015	21.55	23	0-2	
		25RB			816.5	26715	21.66	23	0-2
					831.5	26865	21.55	23	0-2
					846.5	27015	21.54	23	0-2

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FDD Band 26								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
5	64-QAM	1 RB	0	816.5	26715	21.74	23	0-2
				831.5	26865	21.54	23	0-2
				846.5	27015	21.65	23	0-2
			12	816.5	26715	21.76	23	0-2
				831.5	26865	21.72	23	0-2
				846.5	27015	21.89	23	0-2
			24	816.5	26715	21.79	23	0-2
				831.5	26865	21.72	23	0-2
				846.5	27015	21.67	23	0-2
		12 RB	0	816.5	26715	20.77	22	0-3
				831.5	26865	20.61	22	0-3
				846.5	27015	20.51	22	0-3
			6	816.5	26715	20.74	22	0-3
				831.5	26865	20.49	22	0-3
				846.5	27015	20.70	22	0-3
			13	816.5	26715	20.69	22	0-3
				831.5	26865	20.60	22	0-3
				846.5	27015	20.52	22	0-3
		25RB		816.5	26715	20.75	22	0-3
				831.5	26865	20.62	22	0-3
				846.5	27015	20.65	22	0-3

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FDD Band 26									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted pow er (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allow ed per 3GPP(dB)	
3	QPSK	1 RB	0	815.5	26705	23.48	25	0	
				831.5	26865	23.58	25	0	
				847.5	27025	23.59	25	0	
			7	815.5	26705	23.58	25	0	
				831.5	26865	23.49	25	0	
				847.5	27025	23.50	25	0	
			14	815.5	26705	23.45	25	0	
				831.5	26865	23.60	25	0	
				847.5	27025	23.31	25	0	
		8 RB	0	815.5	26705	22.41	24	0-1	
				831.5	26865	22.61	24	0-1	
				847.5	27025	22.52	24	0-1	
			4	815.5	26705	22.64	24	0-1	
				831.5	26865	22.54	24	0-1	
				847.5	27025	22.60	24	0-1	
			7	815.5	26705	22.41	24	0-1	
				831.5	26865	22.51	24	0-1	
				847.5	27025	22.36	24	0-1	
		15RB			815.5	26705	22.51	24	0-1
					831.5	26865	22.41	24	0-1
					847.5	27025	22.68	24	0-1
	16-QAM	1 RB	0	815.5	26705	22.57	24	0-1	
				831.5	26865	22.51	24	0-1	
				847.5	27025	22.54	24	0-1	
			7	815.5	26705	22.57	24	0-1	
				831.5	26865	22.55	24	0-1	
				847.5	27025	22.50	24	0-1	
			14	815.5	26705	22.43	24	0-1	
				831.5	26865	22.72	24	0-1	
				847.5	27025	22.35	24	0-1	
		8 RB	0	815.5	26705	21.45	23	0-2	
				831.5	26865	21.28	23	0-2	
				847.5	27025	21.48	23	0-2	
			4	815.5	26705	21.69	23	0-2	
				831.5	26865	21.61	23	0-2	
				847.5	27025	21.31	23	0-2	
			7	815.5	26705	21.61	23	0-2	
				831.5	26865	21.46	23	0-2	
				847.5	27025	21.39	23	0-2	
		15RB			815.5	26705	21.61	23	0-2
					831.5	26865	21.45	23	0-2
					847.5	27025	21.43	23	0-2

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FDD Band 26								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
3	64-QAM	1 RB	0	815.5	26705	21.59	23	0-2
				831.5	26865	21.35	23	0-2
				847.5	27025	21.46	23	0-2
			7	815.5	26705	21.56	23	0-2
				831.5	26865	21.59	23	0-2
				847.5	27025	21.82	23	0-2
			14	815.5	26705	21.68	23	0-2
				831.5	26865	21.53	23	0-2
				847.5	27025	21.64	23	0-2
		8 RB	0	815.5	26705	20.65	22	0-3
				831.5	26865	20.58	22	0-3
				847.5	27025	20.41	22	0-3
			4	815.5	26705	20.69	22	0-3
				831.5	26865	20.33	22	0-3
				847.5	27025	20.67	22	0-3
			7	815.5	26705	20.66	22	0-3
				831.5	26865	20.41	22	0-3
				847.5	27025	20.47	22	0-3
		15RB		815.5	26705	20.61	22	0-3
				831.5	26865	20.52	22	0-3
				847.5	27025	20.62	22	0-3

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FDD Band 26									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted pow er (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allow ed per 3GPP(dB)	
1.4	QPSK	1 RB	0	814.7	26697	23.52	25	0	
				831.5	26865	23.78	25	0	
				848.3	27033	23.71	25	0	
			2	814.7	26697	23.67	25	0	
				831.5	26865	23.77	25	0	
				848.3	27033	23.70	25	0	
			5	814.7	26697	23.70	25	0	
				831.5	26865	23.79	25	0	
				848.3	27033	23.71	25	0	
		3 RB	0	814.7	26697	23.65	25	0	
				831.5	26865	23.77	25	0	
				848.3	27033	23.70	25	0	
			2	814.7	26697	23.64	25	0	
				831.5	26865	23.75	25	0	
				848.3	27033	23.66	25	0	
			3	814.7	26697	23.50	25	0	
				831.5	26865	23.76	25	0	
				848.3	27033	23.67	25	0	
		6RB			814.7	26697	22.65	24	0-1
					831.5	26865	22.77	24	0-1
					848.3	27033	22.69	24	0-1
	16-QAM	1 RB	0	814.7	26697	22.98	24	0-1	
				831.5	26865	23.09	24	0-1	
				848.3	27033	22.99	24	0-1	
			2	814.7	26697	22.89	24	0-1	
				831.5	26865	23.09	24	0-1	
				848.3	27033	22.94	24	0-1	
			5	814.7	26697	22.98	24	0-1	
				831.5	26865	23.07	24	0-1	
				848.3	27033	22.96	24	0-1	
		3 RB	0	814.7	26697	22.74	24	0-1	
				831.5	26865	22.89	24	0-1	
				848.3	27033	22.75	24	0-1	
			2	814.7	26697	22.75	24	0-1	
				831.5	26865	22.83	24	0-1	
				848.3	27033	22.72	24	0-1	
			3	814.7	26697	22.74	24	0-1	
				831.5	26865	22.86	24	0-1	
				848.3	27033	22.43	24	0-1	
		6RB			814.7	26697	21.68	23	0-2
					831.5	26865	21.85	23	0-2
					848.3	27033	21.69	23	0-2

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FDD Band 26								
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	64-QAM	1 RB	0	814.7	26697	21.91	23	0-2
				831.5	26865	21.96	23	0-2
				848.3	27033	21.87	23	0-2
			2	814.7	26697	21.88	23	0-2
				831.5	26865	21.97	23	0-2
				848.3	27033	21.76	23	0-2
			5	814.7	26697	21.89	23	0-2
				831.5	26865	22.05	23	0-2
				848.3	27033	21.93	23	0-2
		3 RB	0	814.7	26697	21.82	23	0-2
				831.5	26865	21.90	23	0-2
				848.3	27033	21.80	23	0-2
			2	814.7	26697	21.81	23	0-2
				831.5	26865	21.96	23	0-2
				848.3	27033	21.82	23	0-2
			3	814.7	26697	21.66	23	0-2
				831.5	26865	21.91	23	0-2
				848.3	27033	21.81	23	0-2
		6RB		814.7	26697	20.77	22	0-3
				831.5	26865	20.91	22	0-3
				848.3	27033	20.83	22	0-3

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FDD Band 30								
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	2310	27710	22.09	23	0
			25	2310	27710	21.99	23	0
			49	2310	27710	21.85	23	0
		25 RB	0	2310	27710	20.98	22	0-1
			12	2310	27710	20.99	22	0-1
			25	2310	27710	20.96	22	0-1
		50RB		2310	27710	21.03	22	0-1
	16-QAM	1 RB	0	2310	27710	21.51	22	0-1
			25	2310	27710	21.39	22	0-1
			49	2310	27710	21.27	22	0-1
		25 RB	0	2310	27710	19.96	21	0-2
			12	2310	27710	19.96	21	0-2
			25	2310	27710	19.93	21	0-2
		50RB		2310	27710	19.97	21	0-2
	64-QAM	1 RB	0	2310	27710	20.83	21	0-2
			25	2310	27710	20.81	21	0-2
			49	2310	27710	20.74	21	0-2
		25 RB	0	2310	27710	19.95	20	0-3
			12	2310	27710	19.97	20	0-3
			25	2310	27710	19.94	20	0-3
		50RB		2310	27710	19.98	20	0-3

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FDD Band 30								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted pow er (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allow ed per 3GPP(dB)
5	QPSK	1 RB	0	2307.5	27685	22.01	23	0
				2310	27710	21.84	23	0
				2312.5	27735	21.74	23	0
			12	2307.5	27685	21.97	23	0
				2310	27710	21.97	23	0
				2312.5	27735	21.73	23	0
			24	2307.5	27685	22.06	23	0
				2310	27710	21.79	23	0
				2312.5	27735	21.67	23	0
		12 RB	0	2307.5	27685	20.84	22	0-1
				2310	27710	20.91	22	0-1
				2312.5	27735	20.82	22	0-1
			6	2307.5	27685	20.92	22	0-1
				2310	27710	21.46	22	0-1
				2312.5	27735	21.28	22	0-1
			13	2307.5	27685	21.23	22	0-1
				2310	27710	20.78	22	0-1
				2312.5	27735	20.90	22	0-1
		25RB		2307.5	27685	20.85	22	0-1
				2310	27710	20.96	22	0-1
				2312.5	27735	21.45	22	0-1
	16-QAM	1 RB	0	2307.5	27685	21.32	22	0-1
				2310	27710	21.18	22	0-1
				2312.5	27735	20.80	22	0-1
			12	2307.5	27685	20.95	22	0-1
				2310	27710	20.94	22	0-1
				2312.5	27735	20.85	22	0-1
			24	2307.5	27685	21.33	22	0-1
				2310	27710	21.24	22	0-1
				2312.5	27735	21.21	22	0-1
		12 RB	0	2307.5	27685	19.80	21	0-2
				2310	27710	19.81	21	0-2
				2312.5	27735	19.87	21	0-2
			6	2307.5	27685	19.86	21	0-2
				2310	27710	20.74	21	0-2
				2312.5	27735	20.79	21	0-2
			13	2307.5	27685	20.59	21	0-2
				2310	27710	19.81	21	0-2
				2312.5	27735	19.83	21	0-2
		25RB		2307.5	27685	19.90	21	0-2
				2310	27710	19.93	21	0-2
				2312.5	27735	20.65	21	0-2

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FDD Band 30								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
5	64-QAM	1 RB	0	2307.5	27685	20.73	21	0-2
				2310	27710	20.72	21	0-2
				2312.5	27735	19.94	21	0-2
			12	2307.5	27685	19.82	21	0-2
				2310	27710	19.87	21	0-2
				2312.5	27735	19.76	21	0-2
			24	2307.5	27685	20.75	21	0-2
				2310	27710	20.64	21	0-2
				2312.5	27735	20.65	21	0-2
		12 RB	0	2307.5	27685	19.76	20	0-3
				2310	27710	19.76	20	0-3
				2312.5	27735	19.75	20	0-3
			6	2307.5	27685	19.78	20	0-3
				2310	27710	19.88	20	0-3
				2312.5	27735	19.81	20	0-3
			13	2307.5	27685	19.89	20	0-3
				2310	27710	19.93	20	0-3
				2312.5	27735	19.74	20	0-3
		25RB		2307.5	27685	19.78	20	0-3
				2310	27710	19.86	20	0-3
				2312.5	27735	19.90	20	0-3

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FDD Band 66									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted pow er (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allow ed per 3GPP(dB)	
20	QPSK	1 RB	0	1720	132072	23.03	24	0	
				1745	132322	22.85	24	0	
				1770	132572	22.88	24	0	
			50	1720	132072	22.85	24	0	
				1745	132322	22.77	24	0	
				1770	132572	22.74	24	0	
			99	1720	132072	22.84	24	0	
				1745	132322	22.55	24	0	
				1770	132572	22.71	24	0	
		50 RB	0	1720	132072	21.95	23	0-1	
				1745	132322	21.85	23	0-1	
				1770	132572	21.68	23	0-1	
			25	1720	132072	21.87	23	0-1	
				1745	132322	21.81	23	0-1	
				1770	132572	21.63	23	0-1	
			50	1720	132072	21.92	23	0-1	
				1745	132322	21.81	23	0-1	
				1770	132572	21.65	23	0-1	
		100RB			1720	132072	21.91	23	0-1
					1745	132322	21.85	23	0-1
					1770	132572	21.87	23	0-1
	16-QAM	1 RB	0	1720	132072	22.21	23	0-1	
				1745	132322	22.09	23	0-1	
				1770	132572	22.20	23	0-1	
			50	1720	132072	22.11	23	0-1	
				1745	132322	22.05	23	0-1	
				1770	132572	22.05	23	0-1	
			99	1720	132072	22.13	23	0-1	
				1745	132322	22.03	23	0-1	
				1770	132572	21.91	23	0-1	
		50 RB	0	1720	132072	20.83	22	0-2	
				1745	132322	20.89	22	0-2	
				1770	132572	20.84	22	0-2	
			25	1720	132072	20.87	22	0-2	
				1745	132322	20.86	22	0-2	
				1770	132572	20.82	22	0-2	
			50	1720	132072	20.96	22	0-2	
				1745	132322	20.84	22	0-2	
				1770	132572	20.65	22	0-2	
		100RB			1720	132072	20.92	22	0-2
					1745	132322	20.88	22	0-2
					1770	132572	20.88	22	0-2

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FDD Band 66								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
20	64-QAM	1 RB	0	1720	132072	21.75	22	0-2
				1745	132322	21.73	22	0-2
				1770	132572	21.80	22	0-2
			50	1720	132072	21.76	22	0-2
				1745	132322	21.61	22	0-2
				1770	132572	21.61	22	0-2
			99	1720	132072	21.64	22	0-2
				1745	132322	21.52	22	0-2
				1770	132572	21.62	22	0-2
		50 RB	0	1720	132072	20.82	21	0-3
				1745	132322	20.90	21	0-3
				1770	132572	20.87	21	0-3
			25	1720	132072	20.88	21	0-3
				1745	132322	20.86	21	0-3
				1770	132572	20.65	21	0-3
			50	1720	132072	20.96	21	0-3
				1745	132322	20.85	21	0-3
				1770	132572	20.81	21	0-3
		100RB		1720	132072	20.79	21	0-3
				1745	132322	20.90	21	0-3
				1770	132572	20.88	21	0-3

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FDD Band 66									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted pow er (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allow ed per 3GPP(dB)	
15	QPSK	1 RB	0	1717.5	132047	22.85	24	0	
				1745	132322	22.82	24	0	
				1772.5	132597	22.75	24	0	
			36	1717.5	132047	22.65	24	0	
				1745	132322	22.65	24	0	
				1772.5	132597	22.56	24	0	
			74	1717.5	132047	22.74	24	0	
				1745	132322	22.38	24	0	
				1772.5	132597	22.55	24	0	
		36 RB	0	1717.5	132047	21.88	23	0-1	
				1745	132322	21.76	23	0-1	
				1772.5	132597	21.64	23	0-1	
			18	1717.5	132047	21.72	23	0-1	
				1745	132322	21.65	23	0-1	
				1772.5	132597	21.47	23	0-1	
			37	1717.5	132047	21.87	23	0-1	
				1745	132322	21.78	23	0-1	
				1772.5	132597	21.74	23	0-1	
		75RB			1717.5	132047	21.77	23	0-1
					1745	132322	21.80	23	0-1
					1772.5	132597	21.72	23	0-1
	16-QAM	1 RB	0	1717.5	132047	22.12	23	0-1	
				1745	132322	22.01	23	0-1	
				1772.5	132597	22.14	23	0-1	
			36	1717.5	132047	21.90	23	0-1	
				1745	132322	21.90	23	0-1	
				1772.5	132597	21.86	23	0-1	
			74	1717.5	132047	21.98	23	0-1	
				1745	132322	22.01	23	0-1	
				1772.5	132597	21.73	23	0-1	
			36 RB	0	1717.5	132047	20.74	22	0-2
					1745	132322	20.77	22	0-2
					1772.5	132597	20.66	22	0-2
				18	1717.5	132047	20.72	22	0-2
					1745	132322	20.76	22	0-2
					1772.5	132597	20.64	22	0-2
		37		1717.5	132047	20.78	22	0-2	
				1745	132322	20.71	22	0-2	
				1772.5	132597	20.55	22	0-2	
		75RB			1717.5	132047	20.75	22	0-2
					1745	132322	20.69	22	0-2
					1772.5	132597	20.85	22	0-2

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FDD Band 66								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
15	64-QAM	1 RB	0	1717.5	132047	21.58	22	0-2
				1745	132322	21.68	22	0-2
				1772.5	132597	21.62	22	0-2
			36	1717.5	132047	21.69	22	0-2
				1745	132322	21.41	22	0-2
				1772.5	132597	21.46	22	0-2
			74	1717.5	132047	21.47	22	0-2
				1745	132322	21.47	22	0-2
				1772.5	132597	21.59	22	0-2
		36 RB	0	1717.5	132047	20.71	21	0-3
				1745	132322	20.70	21	0-3
				1772.5	132597	20.77	21	0-3
			18	1717.5	132047	20.67	21	0-3
				1745	132322	20.80	21	0-3
				1772.5	132597	20.50	21	0-3
			37	1717.5	132047	20.79	21	0-3
				1745	132322	20.65	21	0-3
				1772.5	132597	20.79	21	0-3
		75RB		1717.5	132047	20.60	21	0-3
				1745	132322	20.78	21	0-3
				1772.5	132597	20.77	21	0-3

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FDD Band 66									
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	132022	22.79	24	0	
				1745	132322	22.79	24	0	
				1775	132622	22.59	24	0	
			25	1715	132022	22.58	24	0	
				1745	132322	22.52	24	0	
				1775	132622	22.44	24	0	
			49	1715	132022	22.64	24	0	
				1745	132322	22.18	24	0	
				1775	132622	22.44	24	0	
		25 RB	0	1715	132022	21.71	23	0-1	
				1745	132322	21.72	23	0-1	
				1775	132622	21.49	23	0-1	
			12	1715	132022	21.70	23	0-1	
				1745	132322	21.59	23	0-1	
				1775	132622	21.42	23	0-1	
			25	1715	132022	21.71	23	0-1	
				1745	132322	21.67	23	0-1	
				1775	132622	21.70	23	0-1	
		50RB			1715	132022	21.72	23	0-1
					1745	132322	21.72	23	0-1
					1775	132622	21.70	23	0-1
		16-QAM	1 RB	0	1715	132022	21.99	23	0-1
					1745	132322	21.81	23	0-1
					1775	132622	22.04	23	0-1
				25	1715	132022	21.78	23	0-1
					1745	132322	21.84	23	0-1
					1775	132622	21.74	23	0-1
	49			1715	132022	21.92	23	0-1	
				1745	132322	21.98	23	0-1	
				1775	132622	21.57	23	0-1	
	25 RB		0	1715	132022	20.57	22	0-2	
				1745	132322	20.62	22	0-2	
				1775	132622	20.47	22	0-2	
			12	1715	132022	20.69	22	0-2	
				1745	132322	20.63	22	0-2	
				1775	132622	20.53	22	0-2	
			25	1715	132022	20.62	22	0-2	
				1745	132322	20.65	22	0-2	
				1775	132622	20.50	22	0-2	
	50RB			1715	132022	20.73	22	0-2	
				1745	132322	20.53	22	0-2	
				1775	132622	20.65	22	0-2	

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FDD Band 66								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
10	64-QAM	1 RB	0	1715	132022	21.38	22	0-2
				1745	132322	21.56	22	0-2
				1775	132622	21.42	22	0-2
			25	1715	132022	21.62	22	0-2
				1745	132322	21.33	22	0-2
				1775	132622	21.31	22	0-2
			49	1715	132022	21.29	22	0-2
				1745	132322	21.37	22	0-2
				1775	132622	21.55	22	0-2
		25 RB	0	1715	132022	20.62	21	0-3
				1745	132322	20.59	21	0-3
				1775	132622	20.56	21	0-3
			12	1715	132022	20.62	21	0-3
				1745	132322	20.76	21	0-3
				1775	132622	20.34	21	0-3
			25	1715	132022	20.68	21	0-3
				1745	132322	20.53	21	0-3
				1775	132622	20.59	21	0-3
		50RB		1715	132022	20.48	21	0-3
				1745	132322	20.62	21	0-3
				1775	132622	20.71	21	0-3

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FDD Band 66									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted pow er (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allow ed per 3GPP(dB)	
5	QPSK	1 RB	0	1712.5	131997	22.60	24	0	
				1745	132322	22.61	24	0	
				1777.5	132647	22.39	24	0	
			12	1712.5	131997	22.50	24	0	
				1745	132322	22.32	24	0	
				1777.5	132647	22.36	24	0	
			24	1712.5	131997	22.48	24	0	
				1745	132322	22.00	24	0	
				1777.5	132647	22.28	24	0	
		12 RB	0	1712.5	131997	21.55	23	0-1	
				1745	132322	21.59	23	0-1	
				1777.5	132647	21.46	23	0-1	
			6	1712.5	131997	21.61	23	0-1	
				1745	132322	21.39	23	0-1	
				1777.5	132647	21.37	23	0-1	
			13	1712.5	131997	21.58	23	0-1	
				1745	132322	21.59	23	0-1	
				1777.5	132647	21.67	23	0-1	
		25RB			1712.5	131997	21.55	23	0-1
					1745	132322	21.61	23	0-1
					1777.5	132647	21.55	23	0-1
		16-QAM	1 RB	0	1712.5	131997	21.83	23	0-1
					1745	132322	21.72	23	0-1
					1777.5	132647	21.85	23	0-1
				12	1712.5	131997	21.76	23	0-1
					1745	132322	21.82	23	0-1
					1777.5	132647	21.66	23	0-1
	24			1712.5	131997	21.76	23	0-1	
				1745	132322	21.96	23	0-1	
				1777.5	132647	21.46	23	0-1	
	12 RB			0	1712.5	131997	20.38	22	0-2
					1745	132322	20.54	22	0-2
					1777.5	132647	20.39	22	0-2
				6	1712.5	131997	20.58	22	0-2
					1745	132322	20.59	22	0-2
					1777.5	132647	20.49	22	0-2
			13	1712.5	131997	20.41	22	0-2	
				1745	132322	20.52	22	0-2	
				1777.5	132647	20.40	22	0-2	
	25RB			1712.5	131997	20.60	22	0-2	
				1745	132322	20.40	22	0-2	
				1777.5	132647	20.50	22	0-2	

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FDD Band 66								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
5	64-QAM	1 RB	0	1712.5	131997	21.27	22	0-2
				1745	132322	21.53	22	0-2
				1777.5	132647	21.27	22	0-2
			12	1712.5	131997	21.54	22	0-2
				1745	132322	21.30	22	0-2
				1777.5	132647	21.18	22	0-2
			24	1712.5	131997	21.22	22	0-2
				1745	132322	21.32	22	0-2
				1777.5	132647	21.51	22	0-2
		12 RB	0	1712.5	131997	20.53	21	0-3
				1745	132322	20.51	21	0-3
				1777.5	132647	20.38	21	0-3
			6	1712.5	131997	20.48	21	0-3
				1745	132322	20.57	21	0-3
				1777.5	132647	20.17	21	0-3
			13	1712.5	131997	20.63	21	0-3
				1745	132322	20.43	21	0-3
				1777.5	132647	20.56	21	0-3
		25RB		1712.5	131997	20.46	21	0-3
				1745	132322	20.57	21	0-3
				1777.5	132647	20.68	21	0-3

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FDD Band 66									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted pow er (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allow ed per 3GPP(dB)	
3	QPSK	1 RB	0	1711.5	131987	22.52	24	0	
				1745	132322	22.50	24	0	
				1778.5	132657	22.26	24	0	
			7	1711.5	131987	22.42	24	0	
				1745	132322	22.22	24	0	
				1778.5	132657	22.26	24	0	
			14	1711.5	131987	22.43	24	0	
				1745	132322	22.23	24	0	
				1778.5	132657	22.22	24	0	
		8 RB	0	1711.5	131987	21.40	23	0-1	
				1745	132322	21.38	23	0-1	
				1778.5	132657	21.42	23	0-1	
			4	1711.5	131987	21.53	23	0-1	
				1745	132322	21.34	23	0-1	
				1778.5	132657	21.17	23	0-1	
			7	1711.5	131987	21.51	23	0-1	
				1745	132322	21.49	23	0-1	
				1778.5	132657	21.58	23	0-1	
		15RB			1711.5	131987	21.44	23	0-1
					1745	132322	21.56	23	0-1
					1778.5	132657	21.42	23	0-1
	16-QAM	1 RB	0	1711.5	131987	21.77	23	0-1	
				1745	132322	21.65	23	0-1	
				1778.5	132657	21.74	23	0-1	
			7	1711.5	131987	21.74	23	0-1	
				1745	132322	21.78	23	0-1	
				1778.5	132657	21.56	23	0-1	
			14	1711.5	131987	21.71	23	0-1	
				1745	132322	21.86	23	0-1	
				1778.5	132657	21.29	23	0-1	
		8 RB	0	1711.5	131987	20.21	22	0-2	
				1745	132322	20.43	22	0-2	
				1778.5	132657	20.34	22	0-2	
			4	1711.5	131987	20.54	22	0-2	
				1745	132322	20.51	22	0-2	
				1778.5	132657	20.31	22	0-2	
			7	1711.5	131987	20.32	22	0-2	
				1745	132322	20.43	22	0-2	
				1778.5	132657	20.32	22	0-2	
		15RB			1711.5	131987	20.42	22	0-2
					1745	132322	20.31	22	0-2
					1778.5	132657	20.30	22	0-2

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FDD Band 66								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
3	64-QAM	1 RB	0	1711.5	131987	21.15	22	0-2
				1745	132322	21.41	22	0-2
				1778.5	132657	21.21	22	0-2
			7	1711.5	131987	21.39	22	0-2
				1745	132322	21.28	22	0-2
				1778.5	132657	21.02	22	0-2
			14	1711.5	131987	21.19	22	0-2
				1745	132322	21.25	22	0-2
				1778.5	132657	21.42	22	0-2
		8 RB	0	1711.5	131987	20.37	21	0-3
				1745	132322	20.42	21	0-3
				1778.5	132657	20.36	21	0-3
			4	1711.5	131987	20.43	21	0-3
				1745	132322	20.46	21	0-3
				1778.5	132657	20.04	21	0-3
			7	1711.5	131987	20.55	21	0-3
				1745	132322	20.35	21	0-3
				1778.5	132657	20.49	21	0-3
		15RB		1711.5	131987	20.30	21	0-3
				1745	132322	20.44	21	0-3
				1778.5	132657	20.58	21	0-3

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FDD Band 66									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted pow er (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allow ed per 3GPP(dB)	
1.4	QPSK	1 RB	0	1710.7	131979	22.92	24	0	
				1745	132322	22.84	24	0	
				1779.3	132665	22.60	24	0	
			2	1710.7	131979	22.91	24	0	
				1745	132322	22.81	24	0	
				1779.3	132665	22.72	24	0	
			5	1710.7	131979	22.93	24	0	
				1745	132322	22.81	24	0	
				1779.3	132665	22.73	24	0	
		3 RB	0	1710.7	131979	22.89	24	0	
				1745	132322	22.81	24	0	
				1779.3	132665	22.42	24	0	
			2	1710.7	131979	22.92	24	0	
				1745	132322	22.78	24	0	
				1779.3	132665	22.71	24	0	
			3	1710.7	131979	22.76	24	0	
				1745	132322	22.67	24	0	
				1779.3	132665	22.72	24	0	
		6RB			1710.7	131979	21.94	23	0-1
					1745	132322	21.85	23	0-1
					1779.3	132665	21.74	23	0-1
	16-QAM	1 RB	0	1710.7	131979	22.20	23	0-1	
				1745	132322	22.15	23	0-1	
				1779.3	132665	21.99	23	0-1	
			2	1710.7	131979	22.24	23	0-1	
				1745	132322	21.94	23	0-1	
				1779.3	132665	21.99	23	0-1	
			5	1710.7	131979	22.26	23	0-1	
				1745	132322	22.14	23	0-1	
				1779.3	132665	22.10	23	0-1	
		3 RB	0	1710.7	131979	22.04	23	0-1	
				1745	132322	21.96	23	0-1	
				1779.3	132665	21.82	23	0-1	
			2	1710.7	131979	22.07	23	0-1	
				1745	132322	21.96	23	0-1	
				1779.3	132665	21.84	23	0-1	
			3	1710.7	131979	22.03	23	0-1	
				1745	132322	21.95	23	0-1	
				1779.3	132665	21.63	23	0-1	
		6RB			1710.7	131979	21.04	22	0-2
					1745	132322	20.95	22	0-2
					1779.3	132665	20.81	22	0-2

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FDD Band 66								
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	64-QAM	1 RB	0	1710.7	131979	21.69	22	0-2
				1745	132322	21.55	22	0-2
				1779.3	132665	21.44	22	0-2
			2	1710.7	131979	21.71	22	0-2
				1745	132322	21.41	22	0-2
				1779.3	132665	21.45	22	0-2
			5	1710.7	131979	21.78	22	0-2
				1745	132322	21.70	22	0-2
				1779.3	132665	21.44	22	0-2
		3 RB	0	1710.7	131979	21.64	22	0-2
				1745	132322	21.52	22	0-2
				1779.3	132665	21.42	22	0-2
			2	1710.7	131979	21.62	22	0-2
				1745	132322	21.49	22	0-2
				1779.3	132665	21.41	22	0-2
			3	1710.7	131979	21.67	22	0-2
				1745	132322	21.52	22	0-2
				1779.3	132665	21.29	22	0-2
		6RB		1710.7	131979	20.64	21	0-3
				1745	132322	20.52	21	0-3
				1779.3	132665	20.39	21	0-3

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LTE TDD Band 38 / Band 41 power table:

TDD Band 38									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted pow er (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allow ed per 3GPP(dB)	
20	QPSK	1 RB	0	2580	37850	23.13	24	0	
				2595	38000	23.05	24	0	
				2610	38150	23.06	24	0	
			50	2580	37850	23.00	24	0	
				2595	38000	22.93	24	0	
				2610	38150	23.02	24	0	
			99	2580	37850	22.97	24	0	
				2595	38000	22.98	24	0	
				2610	38150	22.05	24	0	
		50 RB	0	2580	37850	22.12	23	0-1	
				2595	38000	22.02	23	0-1	
				2610	38150	22.08	23	0-1	
			25	2580	37850	22.06	23	0-1	
				2595	38000	21.97	23	0-1	
				2610	38150	22.07	23	0-1	
			50	2580	37850	22.01	23	0-1	
				2595	38000	22.00	23	0-1	
				2610	38150	22.07	23	0-1	
		100RB			2580	37850	22.08	23	0-1
					2595	38000	21.99	23	0-1
					2610	38150	22.10	23	0-1
	16-QAM	1 RB	0	2580	37850	21.99	23	0-1	
				2595	38000	21.85	23	0-1	
				2610	38150	22.04	23	0-1	
			50	2580	37850	21.91	23	0-1	
				2595	38000	21.92	23	0-1	
				2610	38150	21.88	23	0-1	
			99	2580	37850	21.88	23	0-1	
				2595	38000	21.84	23	0-1	
				2610	38150	21.99	23	0-1	
		50 RB	0	2580	37850	20.89	22	0-2	
				2595	38000	20.92	22	0-2	
				2610	38150	21.04	22	0-2	
			25	2580	37850	20.95	22	0-2	
				2595	38000	20.91	22	0-2	
				2610	38150	20.99	22	0-2	
			50	2580	37850	20.90	22	0-2	
				2595	38000	20.88	22	0-2	
				2610	38150	21.07	22	0-2	
		100RB			2580	37850	20.88	22	0-2
					2595	38000	20.82	22	0-2
					2610	38150	20.92	22	0-2

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TDD Band 38								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
20	64-QAM	1 RB	0	2580	37850	20.92	22	0-2
				2595	38000	20.83	22	0-2
				2610	38150	20.94	22	0-2
			50	2580	37850	20.83	22	0-2
				2595	38000	20.84	22	0-2
				2610	38150	20.82	22	0-2
			99	2580	37850	20.76	22	0-2
				2595	38000	20.78	22	0-2
				2610	38150	20.88	22	0-2
		50 RB	0	2580	37850	19.90	21	0-3
				2595	38000	19.71	21	0-3
				2610	38150	19.96	21	0-3
			25	2580	37850	19.84	21	0-3
				2595	38000	19.81	21	0-3
				2610	38150	19.77	21	0-3
			50	2580	37850	19.83	21	0-3
				2595	38000	19.76	21	0-3
				2610	38150	19.80	21	0-3
		100RB		2580	37850	19.81	21	0-3
				2595	38000	19.76	21	0-3
				2610	38150	19.92	21	0-3

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TDD Band 38									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted pow er (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allow ed per 3GPP(dB)	
15	QPSK	1 RB	0	2577.5	37825	22.97	24	0	
				2595	38000	22.91	24	0	
				2612.5	38175	23.05	24	0	
			36	2577.5	37825	22.93	24	0	
				2595	38000	22.73	24	0	
				2612.5	38175	22.95	24	0	
			74	2577.5	37825	22.91	24	0	
				2595	38000	22.98	24	0	
				2612.5	38175	22.92	24	0	
		36 RB	0	2577.5	37825	22.01	23	0-1	
				2595	38000	21.92	23	0-1	
				2612.5	38175	22.04	23	0-1	
			18	2577.5	37825	21.98	23	0-1	
				2595	38000	21.90	23	0-1	
				2612.5	38175	21.93	23	0-1	
			37	2577.5	37825	21.96	23	0-1	
				2595	38000	21.83	23	0-1	
				2612.5	38175	22.06	23	0-1	
		75RB			2577.5	37825	22.05	23	0-1
					2595	38000	21.95	23	0-1
					2612.5	38175	21.89	23	0-1
	16-QAM	1 RB	0	2577.5	37825	21.79	23	0-1	
				2595	38000	21.80	23	0-1	
				2612.5	38175	21.86	23	0-1	
			36	2577.5	37825	21.80	23	0-1	
				2595	38000	21.82	23	0-1	
				2612.5	38175	21.80	23	0-1	
			74	2577.5	37825	21.84	23	0-1	
				2595	38000	21.66	23	0-1	
				2612.5	38175	21.94	23	0-1	
		36 RB	0	2577.5	37825	20.77	22	0-2	
				2595	38000	20.78	22	0-2	
				2612.5	38175	20.96	22	0-2	
			18	2577.5	37825	20.79	22	0-2	
				2595	38000	20.72	22	0-2	
				2612.5	38175	20.84	22	0-2	
			37	2577.5	37825	20.72	22	0-2	
				2595	38000	20.75	22	0-2	
				2612.5	38175	20.89	22	0-2	
		75RB			2577.5	37825	20.74	22	0-2
					2595	38000	20.68	22	0-2
					2612.5	38175	20.89	22	0-2

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TDD Band 38								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
15	64-QAM	1 RB	0	2577.5	37825	20.74	22	0-2
				2595	38000	20.77	22	0-2
				2612.5	38175	20.87	22	0-2
			36	2577.5	37825	20.71	22	0-2
				2595	38000	20.63	22	0-2
				2612.5	38175	20.75	22	0-2
			74	2577.5	37825	20.58	22	0-2
				2595	38000	20.73	22	0-2
				2612.5	38175	20.78	22	0-2
		36 RB	0	2577.5	37825	19.88	21	0-3
				2595	38000	19.69	21	0-3
				2612.5	38175	19.77	21	0-3
			18	2577.5	37825	19.82	21	0-3
				2595	38000	19.78	21	0-3
				2612.5	38175	19.71	21	0-3
			37	2577.5	37825	19.78	21	0-3
				2595	38000	19.62	21	0-3
				2612.5	38175	19.62	21	0-3
		75RB		2577.5	37825	19.78	21	0-3
				2595	38000	19.65	21	0-3
				2612.5	38175	19.87	21	0-3

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TDD Band 38									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted pow er (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allow ed per 3GPP(dB)	
10	QPSK	1 RB	0	2575	37800	22.76	24	0	
				2595	38000	22.77	24	0	
				2615	38200	22.85	24	0	
			25	2575	37800	22.76	24	0	
				2595	38000	22.69	24	0	
				2615	38200	22.76	24	0	
			49	2575	37800	22.87	24	0	
				2595	38000	22.79	24	0	
				2615	38200	22.81	24	0	
		25 RB	0	2575	37800	21.80	23	0-1	
				2595	38000	21.79	23	0-1	
				2615	38200	21.94	23	0-1	
			12	2575	37800	21.83	23	0-1	
				2595	38000	21.81	23	0-1	
				2615	38200	21.79	23	0-1	
			25	2575	37800	21.92	23	0-1	
				2595	38000	21.67	23	0-1	
				2615	38200	21.90	23	0-1	
		50RB			2575	37800	21.84	23	0-1
					2595	38000	21.74	23	0-1
					2615	38200	21.71	23	0-1
		16-QAM	1 RB	0	2575	37800	21.62	23	0-1
					2595	38000	21.74	23	0-1
					2615	38200	21.75	23	0-1
				25	2575	37800	21.74	23	0-1
					2595	38000	21.64	23	0-1
					2615	38200	21.68	23	0-1
	49			2575	37800	21.78	23	0-1	
				2595	38000	21.64	23	0-1	
				2615	38200	21.89	23	0-1	
	25 RB		0	2575	37800	20.75	22	0-2	
				2595	38000	20.65	22	0-2	
				2615	38200	20.75	22	0-2	
			12	2575	37800	20.58	22	0-2	
				2595	38000	20.65	22	0-2	
				2615	38200	20.79	22	0-2	
			25	2575	37800	20.60	22	0-2	
				2595	38000	20.56	22	0-2	
				2615	38200	20.68	22	0-2	
	50RB			2575	37800	20.53	22	0-2	
				2595	38000	20.56	22	0-2	
				2615	38200	20.87	22	0-2	

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TDD Band 38								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
10	64-QAM	1 RB	0	2575	37800	20.64	22	0-2
				2595	38000	20.68	22	0-2
				2615	38200	20.77	22	0-2
			25	2575	37800	20.57	22	0-2
				2595	38000	20.51	22	0-2
				2615	38200	20.70	22	0-2
			49	2575	37800	20.42	22	0-2
				2595	38000	20.56	22	0-2
				2615	38200	20.76	22	0-2
		25 RB	0	2575	37800	19.78	21	0-3
				2595	38000	19.52	21	0-3
				2615	38200	19.71	21	0-3
			12	2575	37800	19.71	21	0-3
				2595	38000	19.57	21	0-3
				2615	38200	19.51	21	0-3
			25	2575	37800	19.57	21	0-3
				2595	38000	19.42	21	0-3
				2615	38200	19.41	21	0-3
		50RB		2575	37800	19.66	21	0-3
				2595	38000	19.56	21	0-3
				2615	38200	19.84	21	0-3

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TDD Band 38									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted pow er (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allow ed per 3GPP(dB)	
5	QPSK	1 RB	0	2572.5	37775	22.57	24	0	
				2595	38000	22.56	24	0	
				2617.5	38225	22.73	24	0	
			12	2572.5	37775	22.65	24	0	
				2595	38000	22.57	24	0	
				2617.5	38225	22.61	24	0	
			24	2572.5	37775	22.70	24	0	
				2595	38000	22.75	24	0	
				2617.5	38225	22.71	24	0	
		12 RB	0	2572.5	37775	21.74	23	0-1	
				2595	38000	21.74	23	0-1	
				2617.5	38225	21.76	23	0-1	
			6	2572.5	37775	21.65	23	0-1	
				2595	38000	21.63	23	0-1	
				2617.5	38225	21.65	23	0-1	
			13	2572.5	37775	21.81	23	0-1	
				2595	38000	21.49	23	0-1	
				2617.5	38225	21.78	23	0-1	
		25RB			2572.5	37775	21.78	23	0-1
					2595	38000	21.55	23	0-1
					2617.5	38225	21.61	23	0-1
		16-QAM	1 RB	0	2572.5	37775	21.44	23	0-1
					2595	38000	21.57	23	0-1
					2617.5	38225	21.67	23	0-1
				12	2572.5	37775	21.54	23	0-1
					2595	38000	21.43	23	0-1
					2617.5	38225	21.47	23	0-1
	24			2572.5	37775	21.71	23	0-1	
				2595	38000	21.56	23	0-1	
				2617.5	38225	21.86	23	0-1	
	12 RB			0	2572.5	37775	20.54	22	0-2
					2595	38000	20.47	22	0-2
					2617.5	38225	20.73	22	0-2
				6	2572.5	37775	20.51	22	0-2
					2595	38000	20.51	22	0-2
					2617.5	38225	20.74	22	0-2
			13	2572.5	37775	20.48	22	0-2	
				2595	38000	20.53	22	0-2	
				2617.5	38225	20.52	22	0-2	
	25RB			2572.5	37775	20.47	22	0-2	
				2595	38000	20.48	22	0-2	
				2617.5	38225	20.85	22	0-2	

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TDD Band 38								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
5	64-QAM	1 RB	0	2572.5	37775	20.47	22	0-2
				2595	38000	20.62	22	0-2
				2617.5	38225	20.58	22	0-2
			12	2572.5	37775	20.55	22	0-2
				2595	38000	20.34	22	0-2
				2617.5	38225	20.55	22	0-2
			24	2572.5	37775	20.28	22	0-2
				2595	38000	20.42	22	0-2
				2617.5	38225	20.60	22	0-2
		12 RB	0	2572.5	37775	19.61	21	0-3
				2595	38000	19.34	21	0-3
				2617.5	38225	19.55	21	0-3
			6	2572.5	37775	19.54	21	0-3
				2595	38000	19.48	21	0-3
				2617.5	38225	19.37	21	0-3
			13	2572.5	37775	19.44	21	0-3
				2595	38000	19.38	21	0-3
				2617.5	38225	19.23	21	0-3
		25RB		2572.5	37775	19.57	21	0-3
				2595	38000	19.40	21	0-3
				2617.5	38225	19.74	21	0-3

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TDD Band 41								
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	2506	39750	24.25	25	0
				2549.5	40185	24.17	25	0
				2593	40620	23.84	25	0
				2636.5	41055	23.90	25	0
				2680	41490	23.94	25	0
			50	2506	39750	24.16	25	0
				2549.5	40185	24.06	25	0
				2593	40620	23.76	25	0
				2636.5	41055	23.89	25	0
				2680	41490	23.81	25	0
			99	2506	39750	24.22	25	0
				2549.5	40185	24.13	25	0
				2593	40620	23.88	25	0
				2636.5	41055	23.97	25	0
				2680	41490	23.83	25	0
		50 RB	0	2506	39750	23.25	24	0-1
				2549.5	40185	23.11	24	0-1
				2593	40620	22.84	24	0-1
				2636.5	41055	22.98	24	0-1
				2680	41490	22.99	24	0-1
			25	2506	39750	23.21	24	0-1
				2549.5	40185	23.09	24	0-1
				2593	40620	22.81	24	0-1
				2636.5	41055	22.98	24	0-1
				2680	41490	22.89	24	0-1
			50	2506	39750	23.19	24	0-1
				2549.5	40185	23.12	24	0-1
				2593	40620	22.83	24	0-1
				2636.5	41055	23.01	24	0-1
				2680	41490	22.91	24	0-1
		100RB		2506	39750	23.22	24	0-1
				2549.5	40185	23.11	24	0-1
				2593	40620	22.84	24	0-1
				2636.5	41055	22.99	24	0-1
				2680	41490	22.92	24	0-1

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TDD Band 41								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
20	16-QAM	1 RB	0	2506	39750	23.22	24	0-1
				2549.5	40185	23.00	24	0-1
				2593	40620	22.67	24	0-1
				2636.5	41055	22.91	24	0-1
				2680	41490	22.85	24	0-1
			50	2506	39750	23.02	24	0-1
				2549.5	40185	22.98	24	0-1
				2593	40620	22.60	24	0-1
				2636.5	41055	22.92	24	0-1
				2680	41490	22.85	24	0-1
			99	2506	39750	23.11	24	0-1
				2549.5	40185	23.08	24	0-1
				2593	40620	22.70	24	0-1
				2636.5	41055	22.92	24	0-1
				2680	41490	22.75	24	0-1
		50 RB	0	2506	39750	22.20	23	0-2
				2549.5	40185	21.81	23	0-2
				2593	40620	21.52	23	0-2
				2636.5	41055	21.85	23	0-2
				2680	41490	21.73	23	0-2
			25	2506	39750	22.00	23	0-2
				2549.5	40185	21.95	23	0-2
				2593	40620	21.58	23	0-2
				2636.5	41055	21.89	23	0-2
				2680	41490	21.78	23	0-2
			50	2506	39750	22.04	23	0-2
				2549.5	40185	21.90	23	0-2
				2593	40620	21.58	23	0-2
				2636.5	41055	21.84	23	0-2
				2680	41490	21.67	23	0-2
		100RB		2506	39750	22.09	23	0-2
				2549.5	40185	21.89	23	0-2
				2593	40620	21.50	23	0-2
				2636.5	41055	21.85	23	0-2
				2680	41490	21.74	23	0-2

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TDD Band 41								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
20	64-QAM	1 RB	0	2506	39750	21.82	23	0-2
				2549.5	40185	21.80	23	0-2
				2593	40620	21.56	23	0-2
				2636.5	41055	21.80	23	0-2
				2680	41490	21.70	23	0-2
			50	2506	39750	21.98	23	0-2
				2549.5	40185	22.00	23	0-2
				2593	40620	21.50	23	0-2
				2636.5	41055	21.85	23	0-2
				2680	41490	21.58	23	0-2
			99	2506	39750	21.99	23	0-2
				2549.5	40185	21.88	23	0-2
				2593	40620	21.59	23	0-2
				2636.5	41055	21.73	23	0-2
				2680	41490	21.68	23	0-2
		50 RB	0	2506	39750	21.50	22	0-3
				2549.5	40185	21.25	22	0-3
				2593	40620	20.94	22	0-3
				2636.5	41055	21.20	22	0-3
				2680	41490	21.05	22	0-3
			25	2506	39750	21.12	22	0-3
				2549.5	40185	21.26	22	0-3
				2593	40620	20.99	22	0-3
				2636.5	41055	21.11	22	0-3
				2680	41490	21.00	22	0-3
			50	2506	39750	21.29	22	0-3
				2549.5	40185	21.33	22	0-3
				2593	40620	20.80	22	0-3
				2636.5	41055	21.17	22	0-3
				2680	41490	20.88	22	0-3
		100RB		2506	39750	21.28	22	0-3
				2549.5	40185	21.29	22	0-3
				2593	40620	20.92	22	0-3
				2636.5	41055	21.14	22	0-3
				2680	41490	21.16	22	0-3

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TDD Band 41								
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	2503.5	39725	24.06	25	0
				2548.3	40173	24.09	25	0
				2593	40620	23.77	25	0
				2637.8	41068	23.80	25	0
				2682.5	41515	23.89	25	0
			36	2503.5	39725	23.96	25	0
				2548.3	40173	24.04	25	0
				2593	40620	23.56	25	0
				2637.8	41068	23.73	25	0
				2682.5	41515	23.71	25	0
			74	2503.5	39725	24.02	25	0
				2548.3	40173	23.98	25	0
				2593	40620	23.78	25	0
				2637.8	41068	23.78	25	0
				2682.5	41515	23.66	25	0
		36 RB	0	2503.5	39725	23.22	24	0-1
				2548.3	40173	23.07	24	0-1
				2593	40620	22.75	24	0-1
				2637.8	41068	22.85	24	0-1
				2682.5	41515	22.84	24	0-1
			18	2503.5	39725	23.11	24	0-1
				2548.3	40173	23.06	24	0-1
				2593	40620	22.72	24	0-1
				2637.8	41068	22.95	24	0-1
				2682.5	41515	22.77	24	0-1
			37	2503.5	39725	23.11	24	0-1
				2548.3	40173	23.06	24	0-1
				2593	40620	22.78	24	0-1
				2637.8	41068	22.85	24	0-1
				2682.5	41515	22.80	24	0-1
		75RB		2503.5	39725	23.13	24	0-1
				2548.3	40173	22.91	24	0-1
				2593	40620	22.72	24	0-1
				2637.8	41068	22.80	24	0-1
				2682.5	41515	22.73	24	0-1

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TDD Band 41								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
15	16-QAM	1 RB	0	2503.5	39725	23.10	24	0-1
				2548.3	40173	22.85	24	0-1
				2593	40620	22.52	24	0-1
				2637.8	41068	22.71	24	0-1
				2682.5	41515	22.65	24	0-1
			36	2503.5	39725	22.94	24	0-1
				2548.3	40173	22.92	24	0-1
				2593	40620	22.50	24	0-1
				2637.8	41068	22.78	24	0-1
				2682.5	41515	22.81	24	0-1
			74	2503.5	39725	23.01	24	0-1
				2548.3	40173	22.95	24	0-1
				2593	40620	22.68	24	0-1
				2637.8	41068	22.72	24	0-1
				2682.5	41515	22.67	24	0-1
		36 RB	0	2503.5	39725	22.15	23	0-2
				2548.3	40173	21.67	23	0-2
				2593	40620	21.35	23	0-2
				2637.8	41068	21.74	23	0-2
				2682.5	41515	21.56	23	0-2
			18	2503.5	39725	21.92	23	0-2
				2548.3	40173	21.82	23	0-2
				2593	40620	21.53	23	0-2
				2637.8	41068	21.75	23	0-2
				2682.5	41515	21.57	23	0-2
			37	2503.5	39725	21.97	23	0-2
				2548.3	40173	21.88	23	0-2
				2593	40620	21.49	23	0-2
				2637.8	41068	21.78	23	0-2
				2682.5	41515	21.54	23	0-2
		75RB		2503.5	39725	22.01	23	0-2
				2548.3	40173	21.83	23	0-2
				2593	40620	21.29	23	0-2
				2637.8	41068	21.81	23	0-2
				2682.5	41515	21.72	23	0-2

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TDD Band 41								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
15	64-QAM	1 RB	0	2503.5	39725	21.62	23	0-2
				2548.3	40173	21.60	23	0-2
				2593	40620	21.37	23	0-2
				2637.8	41068	21.61	23	0-2
				2682.5	41515	21.61	23	0-2
			36	2503.5	39725	21.84	23	0-2
				2548.3	40173	21.96	23	0-2
				2593	40620	21.35	23	0-2
				2637.8	41068	21.79	23	0-2
				2682.5	41515	21.54	23	0-2
			74	2503.5	39725	21.78	23	0-2
				2548.3	40173	21.81	23	0-2
				2593	40620	21.56	23	0-2
				2637.8	41068	21.65	23	0-2
				2682.5	41515	21.66	23	0-2
		36 RB	0	2503.5	39725	21.36	22	0-3
				2548.3	40173	21.13	22	0-3
				2593	40620	20.73	22	0-3
				2637.8	41068	21.17	22	0-3
				2682.5	41515	20.86	22	0-3
			18	2503.5	39725	20.92	22	0-3
				2548.3	40173	21.10	22	0-3
				2593	40620	20.80	22	0-3
				2637.8	41068	21.04	22	0-3
				2682.5	41515	20.79	22	0-3
			37	2503.5	39725	21.08	22	0-3
				2548.3	40173	21.18	22	0-3
				2593	40620	20.66	22	0-3
				2637.8	41068	21.00	22	0-3
				2682.5	41515	20.81	22	0-3
		75RB		2503.5	39725	21.17	22	0-3
				2548.3	40173	21.26	22	0-3
				2593	40620	20.76	22	0-3
				2637.8	41068	21.09	22	0-3
				2682.5	41515	21.09	22	0-3

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TDD Band 41								
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	2501	39700	23.98	25	0
				2547	40160	24.02	25	0
				2593	40620	23.75	25	0
				2639	41080	23.67	25	0
				2685	41540	23.83	25	0
			25	2501	39700	23.94	25	0
				2547	40160	23.90	25	0
				2593	40620	23.54	25	0
				2639	41080	23.59	25	0
				2685	41540	23.67	25	0
			49	2501	39700	23.90	25	0
				2547	40160	23.89	25	0
				2593	40620	23.72	25	0
				2639	41080	23.60	25	0
				2685	41540	23.50	25	0
		25 RB	0	2501	39700	23.10	24	0-1
				2547	40160	22.93	24	0-1
				2593	40620	22.66	24	0-1
				2639	41080	22.68	24	0-1
				2685	41540	22.69	24	0-1
			12	2501	39700	23.05	24	0-1
				2547	40160	22.91	24	0-1
				2593	40620	22.51	24	0-1
				2639	41080	22.79	24	0-1
				2685	41540	22.72	24	0-1
			25	2501	39700	23.06	24	0-1
				2547	40160	22.90	24	0-1
				2593	40620	22.59	24	0-1
				2639	41080	22.81	24	0-1
				2685	41540	22.70	24	0-1
		50RB		2501	39700	23.03	24	0-1
				2547	40160	22.87	24	0-1
				2593	40620	22.67	24	0-1
				2639	41080	22.64	24	0-1
				2685	41540	22.61	24	0-1

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TDD Band 41								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
10	16-QAM	1 RB	0	2501	39700	22.89	24	0-1
				2547	40160	22.73	24	0-1
				2593	40620	22.34	24	0-1
				2639	41080	22.61	24	0-1
				2685	41540	22.53	24	0-1
			25	2501	39700	22.89	24	0-1
				2547	40160	22.71	24	0-1
				2593	40620	22.40	24	0-1
				2639	41080	22.68	24	0-1
				2685	41540	22.68	24	0-1
			49	2501	39700	22.92	24	0-1
				2547	40160	22.81	24	0-1
				2593	40620	22.49	24	0-1
				2639	41080	22.69	24	0-1
				2685	41540	22.63	24	0-1
		25 RB	0	2501	39700	21.97	23	0-2
				2547	40160	21.56	23	0-2
				2593	40620	21.25	23	0-2
				2639	41080	21.56	23	0-2
				2685	41540	21.40	23	0-2
			12	2501	39700	21.83	23	0-2
				2547	40160	21.78	23	0-2
				2593	40620	21.34	23	0-2
				2639	41080	21.66	23	0-2
				2685	41540	21.47	23	0-2
			25	2501	39700	21.89	23	0-2
				2547	40160	21.77	23	0-2
				2593	40620	21.36	23	0-2
				2639	41080	21.62	23	0-2
				2685	41540	21.45	23	0-2
		50RB		2501	39700	21.85	23	0-2
				2547	40160	21.73	23	0-2
				2593	40620	21.24	23	0-2
				2639	41080	21.69	23	0-2
				2685	41540	21.61	23	0-2

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TDD Band 41								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
10	64-QAM	1 RB	0	2501	39700	21.56	23	0-2
				2547	40160	21.53	23	0-2
				2593	40620	21.29	23	0-2
				2639	41080	21.41	23	0-2
				2685	41540	21.41	23	0-2
			25	2501	39700	21.81	23	0-2
				2547	40160	21.79	23	0-2
				2593	40620	21.14	23	0-2
				2639	41080	21.66	23	0-2
				2685	41540	21.42	23	0-2
			49	2501	39700	21.70	23	0-2
				2547	40160	21.64	23	0-2
				2593	40620	21.46	23	0-2
				2639	41080	21.52	23	0-2
				2685	41540	21.53	23	0-2
		25 RB	0	2501	39700	21.23	22	0-3
				2547	40160	21.05	22	0-3
				2593	40620	20.70	22	0-3
				2639	41080	21.12	22	0-3
				2685	41540	20.66	22	0-3
			12	2501	39700	20.79	22	0-3
				2547	40160	20.92	22	0-3
				2593	40620	20.60	22	0-3
				2639	41080	20.93	22	0-3
				2685	41540	20.70	22	0-3
			25	2501	39700	20.91	22	0-3
				2547	40160	21.00	22	0-3
				2593	40620	20.61	22	0-3
				2639	41080	20.93	22	0-3
				2685	41540	20.71	22	0-3
		50RB		2501	39700	21.01	22	0-3
				2547	40160	21.09	22	0-3
				2593	40620	20.59	22	0-3
				2639	41080	20.92	22	0-3
				2685	41540	21.01	22	0-3

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TDD Band 41								
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	2498.5	39675	23.89	25	0
				2547.8	40148	23.93	25	0
				2593	40620	23.65	25	0
				2640.3	41093	23.62	25	0
				2687.5	41565	23.69	25	0
			12	2498.5	39675	23.86	25	0
				2547.8	40148	23.72	25	0
				2593	40620	23.49	25	0
				2640.3	41093	23.54	25	0
				2687.5	41565	23.46	25	0
			24	2498.5	39675	23.87	25	0
				2547.8	40148	23.77	25	0
				2593	40620	23.66	25	0
				2640.3	41093	23.45	25	0
				2687.5	41565	23.39	25	0
		12 RB	0	2498.5	39675	23.05	24	0-1
				2547.8	40148	22.87	24	0-1
				2593	40620	22.45	24	0-1
				2640.3	41093	22.58	24	0-1
				2687.5	41565	22.50	24	0-1
			6	2498.5	39675	22.96	24	0-1
				2547.8	40148	22.80	24	0-1
				2593	40620	22.33	24	0-1
				2640.3	41093	22.60	24	0-1
				2687.5	41565	22.69	24	0-1
			13	2498.5	39675	23.01	24	0-1
				2547.8	40148	22.70	24	0-1
				2593	40620	22.53	24	0-1
				2640.3	41093	22.65	24	0-1
				2687.5	41565	22.65	24	0-1
		25RB		2498.5	39675	22.92	24	0-1
				2547.8	40148	22.84	24	0-1
				2593	40620	22.55	24	0-1
				2640.3	41093	22.60	24	0-1
				2687.5	41565	22.44	24	0-1

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TDD Band 41								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
5	16-QAM	1 RB	0	2498.5	39675	22.78	24	0-1
				2547.8	40148	22.61	24	0-1
				2593	40620	22.30	24	0-1
				2640.3	41093	22.44	24	0-1
				2687.5	41565	22.39	24	0-1
			12	2498.5	39675	22.79	24	0-1
				2547.8	40148	22.64	24	0-1
				2593	40620	22.37	24	0-1
				2640.3	41093	22.47	24	0-1
				2687.5	41565	22.47	24	0-1
			24	2498.5	39675	22.88	24	0-1
				2547.8	40148	22.62	24	0-1
				2593	40620	22.36	24	0-1
				2640.3	41093	22.53	24	0-1
				2687.5	41565	22.54	24	0-1
		12 RB	0	2498.5	39675	21.81	23	0-2
				2547.8	40148	21.45	23	0-2
				2593	40620	21.23	23	0-2
				2640.3	41093	21.51	23	0-2
				2687.5	41565	21.20	23	0-2
			6	2498.5	39675	21.67	23	0-2
				2547.8	40148	21.74	23	0-2
				2593	40620	21.26	23	0-2
				2640.3	41093	21.62	23	0-2
				2687.5	41565	21.28	23	0-2
			13	2498.5	39675	21.72	23	0-2
				2547.8	40148	21.73	23	0-2
				2593	40620	21.23	23	0-2
				2640.3	41093	21.54	23	0-2
				2687.5	41565	21.40	23	0-2
		25RB		2498.5	39675	21.71	23	0-2
				2547.8	40148	21.58	23	0-2
				2593	40620	21.09	23	0-2
				2640.3	41093	21.55	23	0-2
				2687.5	41565	21.41	23	0-2

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TDD Band 41								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
5	64-QAM	1 RB	0	2498.5	39675	21.37	23	0-2
				2547.8	40148	21.47	23	0-2
				2593	40620	21.19	23	0-2
				2640.3	41093	21.24	23	0-2
				2687.5	41565	21.24	23	0-2
			12	2498.5	39675	21.74	23	0-2
				2547.8	40148	21.60	23	0-2
				2593	40620	21.04	23	0-2
				2640.3	41093	21.48	23	0-2
				2687.5	41565	21.22	23	0-2
			24	2498.5	39675	21.52	23	0-2
				2547.8	40148	21.56	23	0-2
				2593	40620	21.26	23	0-2
				2640.3	41093	21.44	23	0-2
				2687.5	41565	21.49	23	0-2
		12 RB	0	2498.5	39675	21.11	22	0-3
				2547.8	40148	20.87	22	0-3
				2593	40620	20.65	22	0-3
				2640.3	41093	20.95	22	0-3
				2687.5	41565	20.56	22	0-3
			6	2498.5	39675	20.75	22	0-3
				2547.8	40148	20.84	22	0-3
				2593	40620	20.48	22	0-3
				2640.3	41093	20.84	22	0-3
				2687.5	41565	20.55	22	0-3
			13	2498.5	39675	20.88	22	0-3
				2547.8	40148	20.97	22	0-3
				2593	40620	20.51	22	0-3
				2640.3	41093	20.85	22	0-3
				2687.5	41565	20.60	22	0-3
		25RB		2498.5	39675	20.92	22	0-3
				2547.8	40148	21.00	22	0-3
				2593	40620	20.40	22	0-3
				2640.3	41093	20.90	22	0-3
				2687.5	41565	20.94	22	0-3

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WLAN802.11 a/b/g/n(20M/40M)/ac/ax(20M/40M/80M/160M) conducted power table:

Band \ Antenna	SISO		MIMO
	Tx1	Tx2	Tx1 + Tx2
WLAN802.11b	V	V	-
WLAN802.11g	V	V	-
WLAN802.11n(20M)	V	V	V
WLAN802.11n(40M)	V	V	V
WLAN802.11ax(20M)	V	V	V
WLAN802.11ax(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
WLAN802.11ac(160M) 5G	V	V	V
WLAN802.11ax(20M) 5G	V	V	V
WLAN802.11ax(40M) 5G	V	V	V
WLAN802.11ax(80M) 5G	V	V	V
WLAN802.11ax(160M) 5G	V	V	V

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Tablet mode

SISO power

Tx1 antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2450 MHz	802.11b	1	2412	1Mbps	19.50	19.42
		2	2417		20.00	19.98
		6	2437		20.00	19.94
		10	2457		20.00	19.96
		11	2462		18.25	18.18
		12	2467		17.50	17.44
		13	2472		15.25	15.12
	802.11g	1	2412	6Mbps	18.00	17.92
		2	2417		20.00	19.96
		6	2437		20.00	19.99
		10	2457		20.00	19.92
		11	2462		15.50	15.41
		12	2467		13.50	13.37
		13	2472		10.75	10.65
	802.11n20-HT0	1	2412	MCS0	18.00	17.95
		2	2417		20.00	19.93
		6	2437		20.00	19.91
		10	2457		20.00	19.88
		11	2462		15.50	15.37
		12	2467		13.50	13.42
		13	2472		10.75	10.63
	802.11ax20-HE0	1	2412	MCS0	18.00	17.92
		2	2417		20.00	19.95
		6	2437		20.00	19.95
		10	2457		20.00	19.94
		11	2462		15.50	15.38
		12	2467		13.50	13.44
		13	2472		10.75	10.62

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Tx1 antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2450 MHz	802.11n40-HT0	3	2422	MCS0	17.00	16.89
		4	2427		17.50	17.39
		6	2437		17.50	17.39
		8	2447		14.50	14.41
		9	2452		14.00	13.92
		10	2457		11.50	11.46
		11	2462		11.50	11.39
	802.11ax40-HE0	3	2422	MCS0	17.00	16.89
		4	2427		17.50	17.37
		6	2437		17.50	17.44
		8	2447		14.50	14.42
		9	2452		14.00	13.88
		10	2457		11.50	11.37
		11	2462		11.50	11.44

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Tx1 antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.15-5.25 GHz	802.11a	36	5180	6Mbps	15.00	14.96
		40	5200		15.00	14.91
		44	5220		15.00	14.87
		48	5240		15.00	14.90
	802.11n20-HT0	36	5180	MCS0	15.00	14.87
		40	5200		15.00	14.91
		44	5220		15.00	14.90
		48	5240		15.00	14.92
	802.11ac20-VHT0	36	5180	MCS0	15.00	14.92
		40	5200		15.00	14.92
		44	5220		15.00	14.93
		48	5240		15.00	14.95
	802.11ax20-HE0	36	5180	MCS0	15.00	14.90
		40	5200		15.00	14.91
		44	5220		15.00	14.93
		48	5240		15.00	14.90
	802.11n40-HT0	38	5190	MCS0	15.00	14.97
		46	5230		15.00	14.99
	802.11ac40-VHT0	38	5190	MCS0	15.00	14.91
		46	5230		15.00	14.94
	802.11ax40-HE0	38	5190	MCS0	15.00	14.95
		46	5230		15.00	14.96
	802.11ac80-VHT0	42	5210	MCS0	15.00	14.97
	802.11ax80-HE0	42	5210	MCS0	15.00	14.96
	802.11ac160-VHT0	50	5250	MCS0	14.50	14.43
	802.11ax160-HE0	50	5250	MCS0	14.50	14.41

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Tx1 antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.25-5.35 GHz	802.11a	52	5260	6Mbps	15.00	14.87
		56	5280		15.00	14.96
		60	5300		15.00	14.88
		64	5320		15.00	14.89
	802.11n20-HT0	52	5260	MCS0	15.00	14.95
		56	5280		15.00	14.90
		60	5300		15.00	14.90
		64	5320		15.00	14.94
	802.11ac20-VHT0	52	5260	MCS0	15.00	14.95
		56	5280		15.00	14.88
		60	5300		15.00	14.91
		64	5320		15.00	14.91
	802.11ax20-HE0	52	5260	MCS0	15.00	14.91
		56	5280		15.00	14.92
		60	5300		15.00	14.93
		64	5320		15.00	14.95
	802.11n40-HT0	54	5270	MCS0	15.00	14.99
		62	5310		15.00	14.96
	802.11ac40-VHT0	54	5270	MCS0	15.00	14.93
		62	5310		15.00	14.94
	802.11ax40-HE0	54	5270	MCS0	15.00	14.92
		62	5310		15.00	14.94
	802.11ac80-VHT0	58	5290	MCS0	15.00	14.95
	802.11ax80-HE0	58	5290	MCS0	15.00	14.90

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Tx1 antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5600 MHz	802.11a	100	5500	6Mbps	13.50	13.41
		120	5600		13.50	13.38
		140	5700		13.50	13.44
		144	5720		13.50	13.46
	802.11n20-HT0	100	5500	MCS0	13.50	13.44
		120	5600		13.50	13.42
		140	5700		13.50	13.39
		144	5720		13.50	13.37
	802.11ac20-VHT0	100	5500	MCS0	13.50	13.38
		120	5600		13.50	13.37
		140	5700		13.50	13.43
		144	5720		13.50	13.43
	802.11ax20-HE0	100	5500	MCS0	13.50	13.40
		120	5600		13.50	13.40
		140	5700		13.50	13.46
		144	5720		13.50	13.44

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Tx1 antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5600 MHz	802.11n40-HT0	102	5510	MCS0	13.50	13.39
		118	5590		13.50	13.44
		134	5670		13.50	13.46
		142	5710		13.50	13.45
	802.11ac40-VHT0	102	5510	MCS0	13.50	13.40
		118	5590		13.50	13.41
		134	5670		13.50	13.46
		142	5710		13.50	13.44
	802.11ax40-HE0	102	5510	MCS0	13.50	13.46
		118	5590		13.50	13.46
		134	5670		13.50	13.45
		142	5710		13.50	13.38
	802.11ac80-VHT0	106	5530	MCS0	13.50	13.42
		122	5610		13.50	13.47
		138	5690		13.50	13.41
	802.11ax80-HE0	106	5530	MCS0	13.50	13.38
		122	5610		13.50	13.42
		138	5690		13.50	13.45
	802.11ac160-VHT0	114	5570	MCS0	13.50	13.48
	802.11ax160-HE0	114	5570	MCS0	13.50	13.46

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Tx1 antenna						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5800 MHz	802.11a	149	5745	6Mbps	13.00	12.87
		157	5785		13.00	12.93
		165	5825		13.00	12.89
	802.11n20-HT0	149	5745	MCS0	13.00	12.88
		157	5785		13.00	12.88
		165	5825		13.00	12.92
	802.11ac20-VHT0	149	5745	MCS0	13.00	12.88
		157	5785		13.00	12.92
		165	5825		13.00	12.90
	802.11ax20-HE0	149	5745	MCS0	13.00	12.91
		157	5785		13.00	12.95
		165	5825		13.00	12.93
	802.11n40-HT0	151	5755	MCS0	13.00	12.93
		159	5795		13.00	12.98
	802.11ac40-VHT0	151	5755	MCS0	13.00	12.88
		159	5795		13.00	12.94
	802.11ax40-HE0	151	5755	MCS0	13.00	12.87
		159	5795		13.00	12.89
	802.11ac80-VHT0	155	5775	MCS0	13.00	12.96
	802.11ax80-HE0	155	5775	MCS0	13.00	12.91

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Tx2 antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2450 MHz	802.11b	1	2412	1Mbps	18.00	17.99
		2	2417		18.00	17.94
		6	2437		18.00	17.96
		10	2457		18.00	17.90
		11	2462		18.00	17.98
		12	2467		16.50	16.38
		13	2472		15.25	15.20
	802.11g	1	2412	6Mbps	17.00	16.92
		2	2417		18.00	17.98
		6	2437		18.00	17.99
		10	2457		18.00	17.96
		11	2462		15.50	15.45
		12	2467		13.50	13.40
		13	2472		10.75	10.70
	802.11n20-HT0	1	2412	MCS0	17.00	16.91
		2	2417		18.00	17.91
		6	2437		18.00	17.93
		10	2457		18.00	17.87
		11	2462		15.50	15.37
		12	2467		13.50	13.42
		13	2472		10.75	10.69
	802.11ax20-HE0	1	2412	MCS0	17.00	16.96
		2	2417		18.00	17.95
		6	2437		18.00	17.90
		10	2457		18.00	17.95
		11	2462		15.50	15.44
		12	2467		13.50	13.38
		13	2472		10.75	10.62

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Tx2 antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2450 MHz	802.11n40-HT0	3	2422	MCS0	17.00	16.90
		4	2427		17.50	17.40
		6	2437		17.50	17.39
		8	2447		14.50	14.41
		9	2452		13.75	13.65
		10	2457		11.50	11.39
		11	2462		11.50	11.39
	802.11ax40-HE0	3	2422	MCS0	17.00	16.93
		4	2427		17.50	17.39
		6	2437		17.50	17.37
		8	2447		14.50	14.43
		9	2452		13.75	13.64
		10	2457		11.50	11.43
		11	2462		11.50	11.45

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Tx2 antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.15-5.25 GHz	802.11a	36	5180	6Mbps	14.00	13.90
		40	5200		14.00	13.89
		44	5220		14.00	13.89
		48	5240		14.00	13.95
	802.11n20-HT0	36	5180	MCS0	14.00	13.92
		40	5200		14.00	13.95
		44	5220		14.00	13.94
		48	5240		14.00	13.89
	802.11ac20-VHT0	36	5180	MCS0	14.00	13.88
		40	5200		14.00	13.87
		44	5220		14.00	13.92
		48	5240		14.00	13.92
	802.11ax20-HE0	36	5180	MCS0	14.00	13.91
		40	5200		14.00	13.96
		44	5220		14.00	13.91
		48	5240		14.00	13.96
	802.11n40-HT0	38	5190	MCS0	14.00	13.96
		46	5230		14.00	13.95
	802.11ac40-VHT0	38	5190	MCS0	14.00	13.90
		46	5230		14.00	13.96
	802.11ax40-HE0	38	5190	MCS0	14.00	13.94
		46	5230		14.00	13.94
	802.11ac80-VHT0	42	5210	MCS0	14.00	13.98
	802.11ax80-HE0	42	5210	MCS0	14.00	13.90
	802.11ac160-VHT0	50	5250	MCS0	13.50	13.45
	802.11ax160-HE0	50	5250	MCS0	13.50	13.43

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Tx2 antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.25-5.35 GHz	802.11a	52	5260	6Mbps	13.50	13.45
		56	5280		13.50	13.42
		60	5300		13.50	13.45
		64	5320		13.50	13.43
	802.11n20-HT0	52	5260	MCS0	13.50	13.38
		56	5280		13.50	13.37
		60	5300		13.50	13.38
		64	5320		13.50	13.43
	802.11ac20-VHT0	52	5260	MCS0	13.50	13.39
		56	5280		13.50	13.43
		60	5300		13.50	13.37
		64	5320		13.50	13.44
	802.11ax20-HE0	52	5260	MCS0	13.50	13.41
		56	5280		13.50	13.43
		60	5300		13.50	13.37
		64	5320		13.50	13.44
	802.11n40-HT0	54	5270	MCS0	13.50	13.48
		62	5310		13.50	13.42
	802.11ac40-VHT0	54	5270	MCS0	13.50	13.38
		62	5310		13.50	13.43
	802.11ax40-HE0	54	5270	MCS0	13.50	13.41
		62	5310		13.50	13.38
	802.11ac80-VHT0	58	5290	MCS0	13.50	13.44
	802.11ax80-HE0	58	5290	MCS0	13.50	13.41

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Tx2 antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5600 MHz	802.11a	100	5500	6Mbps	13.50	13.43
		120	5600		13.50	13.37
		140	5700		13.50	13.43
		144	5720		13.50	13.38
	802.11n20-HT0	100	5500	MCS0	13.50	13.41
		120	5600		13.50	13.39
		140	5700		13.50	13.46
		144	5720		13.50	13.40
	802.11ac20-VHT0	100	5500	MCS0	13.50	13.40
		120	5600		13.50	13.39
		140	5700		13.50	13.39
		144	5720		13.50	13.40
	802.11ax20-HE0	100	5500	MCS0	13.50	13.41
		120	5600		13.50	13.38
		140	5700		13.50	13.37
		144	5720		13.50	13.44

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Tx2 antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5600 MHz	802.11n40-HT0	102	5510	MCS0	13.50	13.42
		118	5590		13.50	13.42
		134	5670		13.50	13.38
		142	5710		13.50	13.44
	802.11ac40-VHT0	102	5510	MCS0	13.50	13.39
		118	5590		13.50	13.42
		134	5670		13.50	13.46
		142	5710		13.50	13.45
	802.11ax40-HE0	102	5510	MCS0	13.50	13.42
		118	5590		13.50	13.37
		134	5670		13.50	13.40
		142	5710		13.50	13.37
	802.11ac80-VHT0	106	5530	MCS0	13.50	13.42
		122	5610		13.50	13.49
		138	5690		13.50	13.46
	802.11ax80-HE0	106	5530	MCS0	13.50	13.46
		122	5610		13.50	13.40
		138	5690		13.50	13.42
	802.11ac160-VHT0	114	5570	MCS0	13.50	13.48
	802.11ax160-HE0	114	5570	MCS0	13.50	13.45

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Tx2 antenna						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5800 MHz	802.11a	149	5745	6Mbps	15.50	15.40
		157	5785		15.50	15.44
		165	5825		15.50	15.41
	802.11n20-HT0	149	5745	MCS0	15.50	15.37
		157	5785		15.50	15.42
		165	5825		15.50	15.42
	802.11ac20-VHT0	149	5745	MCS0	15.50	15.39
		157	5785		15.50	15.40
		165	5825		15.50	15.42
	802.11ax20-HE0	149	5745	MCS0	15.50	15.46
		157	5785		15.50	15.40
		165	5825		15.50	15.40
	802.11n40-HT0	151	5755	MCS0	15.50	15.48
		159	5795		15.50	15.45
	802.11ac40-VHT0	151	5755	MCS0	15.50	15.41
		159	5795		15.50	15.45
	802.11ax40-HE0	151	5755	MCS0	15.50	15.41
		159	5795		15.50	15.42
	802.11ac80-VHT0	155	5775	MCS0	15.50	15.49
	802.11ax80-HE0	155	5775	MCS0	15.50	15.43

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MIMO power

Tx1 antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2450 MHz	802.11n20-HT0	1	2412	MCS0	13.25	13.11
		2	2417		14.50	14.48
		6	2437		14.50	14.49
		10	2457		14.50	14.41
		11	2462		11.50	11.41
		12	2467		10.00	9.97
		13	2472		4.75	4.62
	802.11ax20-HE0	1	2412	MCS0	13.25	13.05
		2	2417		14.50	14.34
		6	2437		14.50	14.38
		10	2457		14.50	14.34
		11	2462		11.50	11.35
		12	2467		10.00	9.96
		13	2472		4.75	4.58
	802.11n40-HT0	3	2422	MCS0	13.25	13.21
		6	2437		13.50	13.45
		8	2447		10.50	10.48
		9	2452		10.25	10.17
		10	2457		7.50	7.31
		11	2462		5.50	5.33
	802.11n40-HE0	3	2422	MCS0	13.25	13.18
		6	2437		13.50	13.42
		8	2447		10.50	10.46
		9	2452		10.25	10.13
		10	2457		7.50	7.47
		11	2462		5.50	5.36

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Tx1 antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.15-5.25 GHz	802.11n20-HT0	36	5180	MCS0	11.00	10.90
		40	5200		11.00	10.92
		44	5220		11.00	10.79
		48	5240		11.00	10.79
	802.11ac20-VHT0	36	5180	MCS0	11.00	10.87
		40	5200		11.00	10.79
		44	5220		11.00	10.84
		48	5240		11.00	10.81
	802.11ax20-HE0	36	5180	MCS0	11.00	10.94
		40	5200		11.00	10.85
		44	5220		11.00	10.93
		48	5240		11.00	10.84
	802.11n40-HT0	38	5190	MCS0	11.00	10.92
		46	5230		11.00	10.80
	802.11ac40-VHT0	38	5190	MCS0	11.00	10.94
		46	5230		11.00	10.90
	802.11ax40-HE0	38	5190	MCS0	11.00	10.81
		46	5230		11.00	10.93
	802.11ac80-VHT0	42	5210	MCS0	11.00	10.96
	802.11ax80-HE0	42	5210	MCS0	11.00	10.91
	802.11ac160-VHT0	50	5250	MCS0	10.00	9.91
	802.11ax160-HE0	50	5250	MCS0	10.00	9.84

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Tx1 antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.25-5.35 GHz	802.11n20-HT0	52	5260	MCS0	10.50	10.30
		56	5280		10.50	10.33
		60	5300		10.50	10.38
		64	5320		10.50	10.42
	802.11ac20-VHT0	52	5260	MCS0	10.50	10.30
		56	5280		10.50	10.40
		60	5300		10.50	10.34
		64	5320		10.50	10.29
	802.11ax20-HE0	52	5260	MCS0	10.50	10.43
		56	5280		10.50	10.45
		60	5300		10.50	10.32
		64	5320		10.50	10.36
	802.11n40-HT0	54	5270	MCS0	10.50	10.41
		62	5310		10.50	10.44
	802.11ac40-VHT0	54	5270	MCS0	10.50	10.30
		62	5310		10.50	10.37
	802.11ax40-HE0	54	5270	MCS0	10.50	10.30
		62	5310		10.50	10.38
	802.11ac80-VHT0	58	5290	MCS0	10.50	10.47
	802.11ax80-HE0	58	5290	MCS0	10.50	10.33

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Tx1 antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5600 MHz	802.11n20-HT0	100	5500	MCS0	10.50	10.25
		120	5600		10.50	10.28
		140	5700		10.50	10.30
		144	5720		10.50	10.30
	802.11ac20-VHT0	100	5500	MCS0	10.50	10.36
		120	5600		10.50	10.38
		140	5700		10.50	10.38
		144	5720		10.50	10.31
	802.11ax20-HE0	100	5500	MCS0	10.50	10.31
		120	5600		10.50	10.41
		140	5700		10.50	10.31
		144	5720		10.50	10.31
	802.11n40-HT0	102	5510	MCS0	10.50	10.31
		118	5590		10.50	10.38
		134	5670		10.50	10.23
		142	5710		10.50	10.37
	802.11ac40-VHT0	102	5510	MCS0	10.50	10.40
		118	5590		10.50	10.25
		134	5670		10.50	10.34
		142	5710		10.50	10.33
	802.11ax40-HE0	102	5510	MCS0	10.50	10.41
		118	5590		10.50	10.31
		134	5670		10.50	10.26
		142	5710		10.50	10.30
	802.11ac80-VHT0	106	5530	MCS0	10.50	10.23
		122	5610		10.50	10.32
		138	5690		10.50	10.37
	802.11ax80-HE0	106	5530	MCS0	10.50	10.39
		122	5610		10.50	10.36
		138	5690		10.50	10.26
	802.11ac160-VHT0	114	5570	MCS0	10.50	10.48
	802.11ax160-HE0	114	5570	MCS0	10.50	10.37

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Tx1 antenna						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5800 MHz	802.11n20-HT0	149	5745	MCS0	10.00	9.82
		157	5785		10.00	9.86
		165	5825		10.00	9.85
	802.11ac20-VHT0	149	5745	MCS0	10.00	9.85
		157	5785		10.00	9.79
		165	5825		10.00	9.79
	802.11ax20-HE0	149	5745	MCS0	10.00	9.91
		157	5785		10.00	9.78
		165	5825		10.00	9.77
	802.11n40-HT0	151	5755	MCS0	10.00	9.82
		159	5795		10.00	9.80
	802.11ac40-VHT0	151	5755	MCS0	10.00	9.85
		159	5795		10.00	9.86
	802.11ax40-HE0	151	5755	MCS0	10.00	9.84
		159	5795		10.00	9.84
	802.11ac80-VHT0	155	5775	MCS0	10.00	9.98
	802.11ax80-HE0	155	5775	MCS0	10.00	9.76

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Tx2 antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2450 MHz	802.11n20-HT0	1	2412	MCS0	13.25	13.08
		2	2417		14.50	14.47
		6	2437		14.50	14.44
		10	2457		14.50	14.49
		11	2462		11.50	11.25
		12	2467		10.00	9.82
		13	2472		4.75	4.63
	802.11ax20-HE0	1	2412	MCS0	13.25	13.07
		2	2417		14.50	14.29
		6	2437		14.50	14.26
		10	2457		14.50	14.37
		11	2462		11.50	11.40
		12	2467		10.00	9.91
		13	2472		4.75	4.62
	802.11n40-HT0	3	2422	MCS0	13.25	13.01
		6	2437		13.50	13.31
		8	2447		10.50	10.25
		9	2452		10.25	10.17
		10	2457		7.50	7.25
		11	2462		5.50	5.27
	802.11n40-HE0	3	2422	MCS0	13.25	13.06
		6	2437		13.50	13.34
		8	2447		10.50	10.25
		9	2452		10.25	10.04
		10	2457		7.50	7.32
		11	2462		5.50	5.27

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Tx2 antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.15-5.25 GHz	802.11n20-HT0	36	5180	MCS0	11.00	10.91
		40	5200		11.00	10.76
		44	5220		11.00	10.91
		48	5240		11.00	10.75
	802.11ac20-VHT0	36	5180	MCS0	11.00	10.74
		40	5200		11.00	10.75
		44	5220		11.00	10.87
		48	5240		11.00	10.91
	802.11ax20-HE0	36	5180	MCS0	11.00	10.85
		40	5200		11.00	10.84
		44	5220		11.00	10.91
		48	5240		11.00	10.90
	802.11n40-HT0	38	5190	MCS0	11.00	10.83
		46	5230		11.00	10.87
	802.11ac40-VHT0	38	5190	MCS0	11.00	10.88
		46	5230		11.00	10.75
	802.11ax40-HE0	38	5190	MCS0	11.00	10.74
		46	5230		11.00	10.78
	802.11ac80-VHT0	42	5210	MCS0	11.00	10.97
	802.11ax80-HE0	42	5210	MCS0	11.00	10.85
	802.11ac160-VHT0	50	5250	MCS0	10.00	9.87
	802.11ax160-HE0	50	5250	MCS0	10.00	9.74

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Tx2 antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.25-5.35 GHz	802.11n20-HT0	52	5260	MCS0	10.50	10.32
		56	5280		10.50	10.24
		60	5300		10.50	10.39
		64	5320		10.50	10.26
	802.11ac20-VHT0	52	5260	MCS0	10.50	10.28
		56	5280		10.50	10.28
		60	5300		10.50	10.36
		64	5320		10.50	10.24
	802.11ax20-HE0	52	5260	MCS0	10.50	10.23
		56	5280		10.50	10.31
		60	5300		10.50	10.42
		64	5320		10.50	10.37
	802.11n40-HT0	54	5270	MCS0	10.50	10.24
		62	5310		10.50	10.25
	802.11ac40-VHT0	54	5270	MCS0	10.50	10.23
		62	5310		10.50	10.35
	802.11ax40-HE0	54	5270	MCS0	10.50	10.34
		62	5310		10.50	10.39
	802.11ac80-VHT0	58	5290	MCS0	10.50	10.48
	802.11ax80-HE0	58	5290	MCS0	10.50	10.40

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Tx2 antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5600 MHz	802.11n20-HT0	100	5500	MCS0	10.50	10.36
		120	5600		10.50	10.37
		140	5700		10.50	10.35
		144	5720		10.50	10.29
	802.11ac20-VHT0	100	5500	MCS0	10.50	10.36
		120	5600		10.50	10.35
		140	5700		10.50	10.31
		144	5720		10.50	10.23
	802.11ax20-HE0	100	5500	MCS0	10.50	10.25
		120	5600		10.50	10.34
		140	5700		10.50	10.30
		144	5720		10.50	10.38
	802.11n40-HT0	102	5510	MCS0	10.50	10.27
		118	5590		10.50	10.25
		134	5670		10.50	10.38
		142	5710		10.50	10.29
	802.11ac40-VHT0	102	5510	MCS0	10.50	10.25
		118	5590		10.50	10.34
		134	5670		10.50	10.39
		142	5710		10.50	10.33
	802.11ax40-HE0	102	5510	MCS0	10.50	10.39
		118	5590		10.50	10.30
		134	5670		10.50	10.23
		142	5710		10.50	10.36
	802.11ac80-VHT0	106	5530	MCS0	10.50	10.36
		122	5610		10.50	10.40
		138	5690		10.50	10.31
	802.11ax80-HE0	106	5530	MCS0	10.50	10.36
		122	5610		10.50	10.26
		138	5690		10.50	10.35
	802.11ac160-VHT0	114	5570	MCS0	10.50	10.44
	802.11ax160-HE0	114	5570	MCS0	10.50	10.38

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Tx2 antenna						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5800 MHz	802.11n20-HT0	149	5745	MCS0	10.00	9.90
		157	5785		10.00	9.90
		165	5825		10.00	9.75
	802.11ac20-VHT0	149	5745	MCS0	10.00	9.78
		157	5785		10.00	9.77
		165	5825		10.00	9.84
	802.11ax20-HE0	149	5745	MCS0	10.00	9.74
		157	5785		10.00	9.92
		165	5825		10.00	9.87
	802.11n40-HT0	151	5755	MCS0	10.00	9.78
		159	5795		10.00	9.83
	802.11ac40-VHT0	151	5755	MCS0	10.00	9.76
		159	5795		10.00	9.73
	802.11ax40-HE0	151	5755	MCS0	10.00	9.91
		159	5795		10.00	9.83
	802.11ac80-VHT0	155	5775	MCS0	10.00	9.93
	802.11ax80-HE0	155	5775	MCS0	10.00	9.81

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Notebook mode

SISO power

Tx1 antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2450 MHz	802.11b	1	2412	1Mbps	19.50	19.38
		2	2417		20.00	19.98
		6	2437		20.00	19.95
		10	2457		20.00	19.94
		11	2462		18.25	18.16
		12	2467		17.50	17.38
		13	2472		15.25	15.13
	802.11g	1	2412	6Mbps	18.00	17.93
		2	2417		20.00	19.96
		6	2437		20.00	19.97
		10	2457		20.00	19.92
		11	2462		15.50	15.41
		12	2467		13.50	13.43
		13	2472		10.75	10.71
	802.11n20-HT0	1	2412	MCS0	18.00	17.90
		2	2417		20.00	19.90
		6	2437		20.00	19.87
		10	2457		20.00	19.93
		11	2462		15.50	15.45
		12	2467		13.50	13.42
		13	2472		10.75	10.66
	802.11ax20-HE0	1	2412	MCS0	18.00	17.87
		2	2417		20.00	19.88
		6	2437		20.00	19.92
		10	2457		20.00	19.91
		11	2462		15.50	15.37
		12	2467		13.50	13.45
		13	2472		10.75	10.70

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Tx1 antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2450 MHz	802.11n40-HT0	3	2422	MCS0	17.00	16.92
		4	2427		17.50	17.41
		6	2437		17.50	17.41
		8	2447		14.50	14.43
		9	2452		14.00	13.88
		10	2457		11.50	11.44
		11	2462		11.50	11.40
	802.11ax40-HE0	3	2422	MCS0	17.00	16.88
		4	2427		17.50	17.42
		6	2437		17.50	17.46
		8	2447		14.50	14.39
		9	2452		14.00	13.89
		10	2457		11.50	11.46
		11	2462		11.50	11.37

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Tx1 antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.15-5.25 GHz	802.11a	36	5180	6Mbps	19.00	18.96
		40	5200		19.00	18.93
		44	5220		19.00	18.99
		48	5240		19.00	18.98
	802.11n20-HT0	36	5180	MCS0	19.00	18.93
		40	5200		19.00	18.94
		44	5220		19.00	18.88
		48	5240		19.00	18.94
	802.11ac20-VHT0	36	5180	MCS0	19.00	18.90
		40	5200		19.00	18.92
		44	5220		19.00	18.90
		48	5240		19.00	18.89
	802.11ax20-HE0	36	5180	MCS0	19.00	18.92
		40	5200		19.00	18.95
		44	5220		19.00	18.90
		48	5240		19.00	18.90
	802.11n40-HT0	38	5190	MCS0	18.50	18.48
		46	5230		19.00	18.98
	802.11ac40-VHT0	38	5190	MCS0	18.50	18.43
		46	5230		19.00	18.93
	802.11ax40-HE0	38	5190	MCS0	18.50	18.44
		46	5230		19.00	18.87
	802.11ac80-VHT0	42	5210	MCS0	18.50	18.41
	802.11ax80-HE0	42	5210	MCS0	18.50	18.38
	802.11ac160-VHT0	50	5250	MCS0	14.50	14.46
	802.11ax160-HE0	50	5250	MCS0	14.50	14.45

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Tx1 antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.25-5.35 GHz	802.11a	52	5260	6Mbps	19.00	18.98
		56	5280		19.00	18.96
		60	5300		19.00	18.97
		64	5320		18.75	18.69
	802.11n20-HT0	52	5260	MCS0	19.00	18.96
		56	5280		19.00	18.96
		60	5300		19.00	18.88
		64	5320		18.75	18.67
	802.11ac20-VHT0	52	5260	MCS0	19.00	18.91
		56	5280		19.00	18.94
		60	5300		19.00	18.88
		64	5320		18.75	18.65
	802.11ax20-HE0	52	5260	MCS0	19.00	18.91
		56	5280		19.00	18.87
		60	5300		19.00	18.96
		64	5320		18.75	18.67
	802.11n40-HT0	54	5270	MCS0	19.00	18.98
		62	5310		17.50	17.44
	802.11ac40-VHT0	54	5270	MCS0	19.00	18.94
		62	5310		17.50	17.41
	802.11ax40-HE0	54	5270	MCS0	19.00	18.88
		62	5310		17.50	17.40
	802.11ac80-VHT0	58	5290	MCS0	18.25	18.14
	802.11ax80-HE0	58	5290	MCS0	18.25	18.16

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Tx1 antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5600 MHz	802.11a	100	5500	6Mbps	17.00	16.91
		120	5600		17.00	16.89
		140	5700		17.00	16.88
		144	5720		17.00	16.90
	802.11n20-HT0	100	5500	MCS0	17.00	16.92
		120	5600		17.00	16.96
		140	5700		17.00	16.94
		144	5720		17.00	16.90
	802.11ac20-VHT0	100	5500	MCS0	17.00	16.89
		120	5600		17.00	16.94
		140	5700		17.00	16.90
		144	5720		17.00	16.96
	802.11ax20-HE0	100	5500	MCS0	17.00	16.91
		120	5600		17.00	16.96
		140	5700		17.00	16.92
		144	5720		17.00	16.89

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Tx1 antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5600 MHz	802.11n40-HT0	102	5510	MCS0	17.00	16.99
		118	5590		17.00	16.97
		134	5670		17.00	16.98
		142	5710		17.00	16.93
	802.11ac40-VHT0	102	5510	MCS0	17.00	16.91
		118	5590		17.00	16.94
		134	5670		17.00	16.88
		142	5710		17.00	16.91
	802.11ax40-HE0	102	5510	MCS0	17.00	16.87
		118	5590		17.00	16.96
		134	5670		17.00	16.95
		142	5710		17.00	16.94
	802.11ac80-VHT0	106	5530	MCS0	17.00	16.99
		122	5610		17.00	16.98
		138	5690		17.00	16.92
	802.11ax80-HE0	106	5530	MCS0	17.00	16.93
		122	5610		17.00	16.87
		138	5690		17.00	16.88
	802.11ac160-VHT0	114	5570	MCS0	15.50	15.46
	802.11ax160-HE0	114	5570	MCS0	15.50	15.43

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Tx1 antenna						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5800 MHz	802.11a	149	5745	6Mbps	16.50	16.44
		157	5785		16.50	16.43
		165	5825		16.50	16.38
	802.11n20-HT0	149	5745	MCS0	16.50	16.44
		157	5785		16.50	16.37
		165	5825		16.50	16.39
	802.11ac20-VHT0	149	5745	MCS0	16.50	16.46
		157	5785		16.50	16.45
		165	5825		16.50	16.37
	802.11ax20-HE0	149	5745	MCS0	16.50	16.45
		157	5785		16.50	16.46
		165	5825		16.50	16.46
	802.11n40-HT0	151	5755	MCS0	16.50	16.49
		159	5795		16.50	16.47
	802.11ac40-VHT0	151	5755	MCS0	16.50	16.38
		159	5795		16.50	16.41
	802.11ax40-HE0	151	5755	MCS0	16.50	16.46
		159	5795		16.50	16.46
	802.11ac80-VHT0	155	5775	MCS0	16.50	16.49
	802.11ax80-HE0	155	5775	MCS0	16.50	16.46

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Tx2 antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2450 MHz	802.11b	1	2412	1Mbps	19.00	18.97
		2	2417		19.00	18.88
		6	2437		19.00	18.99
		10	2457		19.00	18.96
		11	2462		18.25	18.15
		12	2467		16.50	16.43
		13	2472		15.25	15.14
	802.11g	1	2412	6Mbps	17.00	16.89
		2	2417		19.00	18.95
		6	2437		19.00	18.98
		10	2457		19.00	18.97
		11	2462		15.50	15.40
		12	2467		13.50	13.45
		13	2472		10.75	10.69
	802.11n20-HT0	1	2412	MCS0	17.00	16.91
		2	2417		19.00	18.95
		6	2437		19.00	18.94
		10	2457		19.00	18.96
		11	2462		15.50	15.45
		12	2467		13.50	13.44
		13	2472		10.75	10.65
	802.11ax20-HE0	1	2412	MCS0	17.00	16.90
		2	2417		19.00	18.93
		6	2437		19.00	18.92
		10	2457		19.00	18.93
		11	2462		15.50	15.43
		12	2467		13.50	13.46
		13	2472		10.75	10.63

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Tx2 antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2450 MHz	802.11n40-HT0	3	2422	MCS0	17.00	16.95
		4	2427		17.50	17.45
		6	2437		17.50	17.46
		8	2447		14.50	14.40
		9	2452		13.75	13.66
		10	2457		11.50	11.44
		11	2462		11.50	11.37
	802.11ax40-HE0	3	2422	MCS0	17.00	16.89
		4	2427		17.50	17.45
		6	2437		17.50	17.42
		8	2447		14.50	14.46
		9	2452		13.75	13.71
		10	2457		11.50	11.41
		11	2462		11.50	11.45

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Tx2 antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.15-5.25 GHz	802.11a	36	5180	6Mbps	18.50	18.44
		40	5200		18.50	18.47
		44	5220		18.50	18.43
		48	5240		18.50	18.49
	802.11n20-HT0	36	5180	MCS0	18.50	18.41
		40	5200		18.50	18.40
		44	5220		18.50	18.37
		48	5240		18.50	18.39
	802.11ac20-VHT0	36	5180	MCS0	18.50	18.42
		40	5200		18.50	18.39
		44	5220		18.50	18.46
		48	5240		18.50	18.39
	802.11ax20-HE0	36	5180	MCS0	18.50	18.37
		40	5200		18.50	18.44
		44	5220		18.50	18.38
		48	5240		18.50	18.46
	802.11n40-HT0	38	5190	MCS0	18.50	18.46
		46	5230		18.50	18.48
	802.11ac40-VHT0	38	5190	MCS0	18.50	18.46
		46	5230		18.50	18.38
	802.11ax40-HE0	38	5190	MCS0	18.50	18.44
		46	5230		18.50	18.40
	802.11ac80-VHT0	42	5210	MCS0	18.50	18.49
	802.11ax80-HE0	42	5210	MCS0	18.50	18.41
	802.11ac160-VHT0	50	5250	MCS0	14.50	14.41
	802.11ax160-HE0	50	5250	MCS0	14.50	14.37

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Tx2 antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.25-5.35 GHz	802.11a	52	5260	6Mbps	18.00	17.95
		56	5280		18.00	17.90
		60	5300		18.00	17.90
		64	5320		18.00	17.88
	802.11n20-HT0	52	5260	MCS0	18.00	17.91
		56	5280		18.00	17.90
		60	5300		18.00	17.94
		64	5320		18.00	17.87
	802.11ac20-VHT0	52	5260	MCS0	18.00	17.96
		56	5280		18.00	17.96
		60	5300		18.00	17.89
		64	5320		18.00	17.91
	802.11ax20-HE0	52	5260	MCS0	18.00	17.96
		56	5280		18.00	17.96
		60	5300		18.00	17.89
		64	5320		18.00	17.92
	802.11n40-HT0	54	5270	MCS0	18.00	17.98
		62	5310		17.50	17.48
	802.11ac40-VHT0	54	5270	MCS0	18.00	17.89
		62	5310		17.50	17.39
	802.11ax40-HE0	54	5270	MCS0	18.00	17.88
		62	5310		17.50	17.42
	802.11ac80-VHT0	58	5290	MCS0	18.00	17.97
	802.11ax80-HE0	58	5290	MCS0	18.00	17.96

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Tx2 antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5600 MHz	802.11a	100	5500	6Mbps	17.00	16.95
		120	5600		17.00	16.96
		140	5700		17.00	16.94
		144	5720		17.00	16.94
	802.11n20-HT0	100	5500	MCS0	17.00	16.96
		120	5600		17.00	16.87
		140	5700		17.00	16.92
		144	5720		17.00	16.96
	802.11ac20-VHT0	100	5500	MCS0	17.00	16.91
		120	5600		17.00	16.94
		140	5700		17.00	16.91
		144	5720		17.00	16.91
	802.11ax20-HE0	100	5500	MCS0	17.00	16.96
		120	5600		17.00	16.92
		140	5700		17.00	16.96
		144	5720		17.00	16.89

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Tx2 antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5600 MHz	802.11n40-HT0	102	5510	MCS0	17.00	16.93
		118	5590		17.00	16.94
		134	5670		17.00	16.95
		142	5710		17.00	16.97
	802.11ac40-VHT0	102	5510	MCS0	17.00	16.95
		118	5590		17.00	16.94
		134	5670		17.00	16.88
		142	5710		17.00	16.96
	802.11ax40-HE0	102	5510	MCS0	17.00	16.96
		118	5590		17.00	16.91
		134	5670		17.00	16.94
		142	5710		17.00	16.95
	802.11ac80-VHT0	106	5530	MCS0	17.00	16.98
		122	5610		17.00	16.97
		138	5690		17.00	16.93
	802.11ax80-HE0	106	5530	MCS0	17.00	16.90
		122	5610		17.00	16.96
		138	5690		17.00	16.94
	802.11ac160-VHT0	114	5570	MCS0	15.00	14.91
	802.11ax160-HE0	114	5570	MCS0	15.00	14.91

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Tx2 antenna						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5800 MHz	802.11a	149	5745	6Mbps	17.00	16.94
		157	5785		17.00	16.96
		165	5825		17.00	16.93
	802.11n20-HT0	149	5745	MCS0	17.00	16.91
		157	5785		17.00	16.95
		165	5825		17.00	16.90
	802.11ac20-VHT0	149	5745	MCS0	17.00	16.92
		157	5785		17.00	16.95
		165	5825		17.00	16.94
	802.11ax20-HE0	149	5745	MCS0	17.00	16.89
		157	5785		17.00	16.90
		165	5825		17.00	16.92
	802.11n40-HT0	151	5755	MCS0	17.00	16.98
		159	5795		17.00	16.95
	802.11ac40-VHT0	151	5755	MCS0	17.00	16.93
		159	5795		17.00	16.93
	802.11ax40-HE0	151	5755	MCS0	17.00	16.94
		159	5795		17.00	16.90
	802.11ac80-VHT0	155	5775	MCS0	17.00	16.97
	802.11ax80-HE0	155	5775	MCS0	17.00	16.90

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MIMO power

Tx1 antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2450 MHz	802.11n20-HT0	1	2412	MCS0	13.25	13.13
		2	2417		14.50	14.48
		6	2437		14.50	14.49
		10	2457		14.50	14.46
		11	2462		11.50	11.41
		12	2467		10.00	9.91
		13	2472		4.75	4.62
	802.11ax20-HE0	1	2412	MCS0	13.25	13.20
		2	2417		14.50	14.40
		6	2437		14.50	14.46
		10	2457		14.50	14.44
		11	2462		11.50	11.45
		12	2467		10.00	9.93
		13	2472		4.75	4.70
	802.11n40-HT0	3	2422	MCS0	13.25	13.19
		6	2437		13.50	13.39
		8	2447		10.50	10.46
		9	2452		10.25	10.16
		10	2457		7.50	7.44
		11	2462		5.50	5.42
	802.11n40-HE0	3	2422	MCS0	13.25	13.14
		6	2437		13.50	13.37
		8	2447		10.50	10.46
		9	2452		10.25	10.19
		10	2457		7.50	7.39
		11	2462		5.50	5.42

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Tx1 antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.15-5.25 GHz	802.11n20-HT0	36	5180	MCS0	15.00	14.88
		40	5200		15.50	15.46
		44	5220		15.50	15.38
		48	5240		15.50	15.39
	802.11ac20-VHT0	36	5180	MCS0	15.00	14.96
		40	5200		15.50	15.43
		44	5220		15.50	15.43
		48	5240		15.50	15.41
	802.11ax20-HE0	36	5180	MCS0	15.00	14.92
		40	5200		15.50	15.42
		44	5220		15.50	15.44
		48	5240		15.50	15.43
	802.11n40-HT0	38	5190	MCS0	13.50	13.44
		46	5230		15.50	15.46
	802.11ac40-VHT0	38	5190	MCS0	13.50	13.42
		46	5230		15.50	15.44
	802.11ax40-HE0	38	5190	MCS0	13.50	13.37
		46	5230		15.50	15.37
	802.11ac80-VHT0	42	5210	MCS0	14.00	13.93
	802.11ax80-HE0	42	5210	MCS0	14.00	13.88
	802.11ac160-VHT0	50	5250	MCS0	10.00	9.96
	802.11ax160-HE0	50	5250	MCS0	10.00	9.94

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Tx1 antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.25-5.35 GHz	802.11n20-HT0	52	5260	MCS0	15.00	14.91
		56	5280		15.00	14.93
		60	5300		15.00	14.92
		64	5320		14.50	14.43
	802.11ac20-VHT0	52	5260	MCS0	15.00	14.96
		56	5280		15.00	14.94
		60	5300		15.00	14.88
		64	5320		14.50	14.40
	802.11ax20-HE0	52	5260	MCS0	15.00	14.96
		56	5280		15.00	14.88
		60	5300		15.00	14.94
		64	5320		14.50	14.43
	802.11n40-HT0	54	5270	MCS0	15.00	14.98
		62	5310		13.00	12.95
	802.11ac40-VHT0	54	5270	MCS0	15.00	14.95
		62	5310		13.00	12.96
	802.11ax40-HE0	54	5270	MCS0	15.00	14.87
		62	5310		13.00	12.89
	802.11ac80-VHT0	58	5290	MCS0	12.75	12.65
	802.11ax80-HE0	58	5290	MCS0	12.75	12.71

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Tx1 antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5600 MHz	802.11n20-HT0	100	5500	MCS0	14.00	13.91
		120	5600		14.00	13.93
		140	5700		14.00	13.91
		144	5720		14.00	13.95
	802.11ac20-VHT0	100	5500	MCS0	14.00	13.88
		120	5600		14.00	13.94
		140	5700		14.00	13.89
		144	5720		14.00	13.96
	802.11ax20-HE0	100	5500	MCS0	14.00	13.96
		120	5600		14.00	13.90
		140	5700		14.00	13.90
		144	5720		14.00	13.94
	802.11n40-HT0	102	5510	MCS0	14.00	13.94
		118	5590		14.00	13.90
		134	5670		14.00	13.95
		142	5710		14.00	13.96
	802.11ac40-VHT0	102	5510	MCS0	14.00	13.89
		118	5590		14.00	13.91
		134	5670		14.00	13.93
		142	5710		14.00	13.93
	802.11ax40-HE0	102	5510	MCS0	14.00	13.89
		118	5590		14.00	13.95
		134	5670		14.00	13.93
		142	5710		14.00	13.89
	802.11ac80-VHT0	106	5530	MCS0	14.00	13.99
		122	5610		14.00	13.98
		138	5690		14.00	13.96
	802.11ax80-HE0	106	5530	MCS0	14.00	13.89
		122	5610		14.00	13.90
		138	5690		14.00	13.91
	802.11ac160-VHT0	114	5570	MCS0	10.50	10.38
	802.11ax160-HE0	114	5570	MCS0	10.50	10.41

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Tx1 antenna						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5800 MHz	802.11n20-HT0	149	5745	MCS0	13.50	13.43
		157	5785		13.50	13.43
		165	5825		13.50	13.42
	802.11ac20-VHT0	149	5745	MCS0	13.50	13.37
		157	5785		13.50	13.37
		165	5825		13.50	13.46
	802.11ax20-HE0	149	5745	MCS0	13.50	13.38
		157	5785		13.50	13.44
		165	5825		13.50	13.43
	802.11n40-HT0	151	5755	MCS0	13.50	13.42
		159	5795		13.50	13.42
	802.11ac40-VHT0	151	5755	MCS0	13.50	13.40
		159	5795		13.50	13.37
	802.11ax40-HE0	151	5755	MCS0	13.50	13.44
		159	5795		13.50	13.42
	802.11ac80-VHT0	155	5775	MCS0	13.50	13.48
	802.11ax80-HE0	155	5775	MCS0	13.50	13.46

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Tx2 antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2450 MHz	802.11n20-HT0	1	2412	MCS0	13.25	13.17
		2	2417		14.50	14.48
		6	2437		14.50	14.42
		10	2457		14.50	14.49
		11	2462		11.50	11.41
		12	2467		10.00	9.95
		13	2472		4.75	4.71
	802.11ax20-HE0	1	2412	MCS0	13.25	13.19
		2	2417		14.50	14.40
		6	2437		14.50	14.37
		10	2457		14.50	14.45
		11	2462		11.50	11.39
		12	2467		10.00	9.93
		13	2472		4.75	4.63
	802.11n40-HT0	3	2422	MCS0	13.25	13.20
		6	2437		13.50	13.43
		8	2447		10.50	10.41
		9	2452		10.25	10.13
		10	2457		7.50	7.37
		11	2462		5.50	5.42
	802.11n40-HE0	3	2422	MCS0	13.25	13.18
		6	2437		13.50	13.37
		8	2447		10.50	10.45
		9	2452		10.25	10.20
		10	2457		7.50	7.44
		11	2462		5.50	5.43

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Tx2 antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.15-5.25 GHz	802.11n20-HT0	36	5180	MCS0	15.00	14.88
		40	5200		15.50	15.42
		44	5220		15.50	15.40
		48	5240		15.50	15.46
	802.11ac20-VHT0	36	5180	MCS0	15.00	14.94
		40	5200		15.50	15.41
		44	5220		15.50	15.44
		48	5240		15.50	15.40
	802.11ax20-HE0	36	5180	MCS0	15.00	14.87
		40	5200		15.50	15.38
		44	5220		15.50	15.46
		48	5240		15.50	15.37
	802.11n40-HT0	38	5190	MCS0	13.50	13.48
		46	5230		15.50	15.44
	802.11ac40-VHT0	38	5190	MCS0	13.50	13.40
		46	5230		15.50	15.39
	802.11ax40-HE0	38	5190	MCS0	13.50	13.43
		46	5230		15.50	15.40
	802.11ac80-VHT0	42	5210	MCS0	14.00	13.90
	802.11ax80-HE0	42	5210	MCS0	14.00	13.96
	802.11ac160-VHT0	50	5250	MCS0	10.00	9.90
	802.11ax160-HE0	50	5250	MCS0	10.00	9.87

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Tx2 antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.25-5.35 GHz	802.11n20-HT0	52	5260	MCS0	15.00	14.94
		56	5280		15.00	14.87
		60	5300		15.00	14.91
		64	5320		14.50	14.45
	802.11ac20-VHT0	52	5260	MCS0	15.00	14.88
		56	5280		15.00	14.89
		60	5300		15.00	14.95
		64	5320		14.50	14.43
	802.11ax20-HE0	52	5260	MCS0	15.00	14.95
		56	5280		15.00	14.87
		60	5300		15.00	14.89
		64	5320		14.50	14.44
	802.11n40-HT0	54	5270	MCS0	15.00	14.99
		62	5310		13.00	12.94
	802.11ac40-VHT0	54	5270	MCS0	15.00	14.92
		62	5310		13.00	12.95
	802.11ax40-HE0	54	5270	MCS0	15.00	14.90
		62	5310		13.00	12.96
	802.11ac80-VHT0	58	5290	MCS0	12.75	12.70
	802.11ax80-HE0	58	5290	MCS0	12.75	12.71

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Tx2 antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5600 MHz	802.11n20-HT0	100	5500	MCS0	14.00	13.89
		120	5600		14.00	13.87
		140	5700		14.00	13.93
		144	5720		14.00	13.89
	802.11ac20-VHT0	100	5500	MCS0	14.00	13.94
		120	5600		14.00	13.91
		140	5700		14.00	13.95
		144	5720		14.00	13.90
	802.11ax20-HE0	100	5500	MCS0	14.00	13.90
		120	5600		14.00	13.94
		140	5700		14.00	13.89
		144	5720		14.00	13.93
	802.11n40-HT0	102	5510	MCS0	14.00	13.91
		118	5590		14.00	13.90
		134	5670		14.00	13.88
		142	5710		14.00	13.87
	802.11ac40-VHT0	102	5510	MCS0	14.00	13.87
		118	5590		14.00	13.95
		134	5670		14.00	13.91
		142	5710		14.00	13.94
	802.11ax40-HE0	102	5510	MCS0	14.00	13.94
		118	5590		14.00	13.90
		134	5670		14.00	13.89
		142	5710		14.00	13.87
	802.11ac80-VHT0	106	5530	MCS0	14.00	13.94
		122	5610		14.00	13.98
		138	5690		14.00	13.97
	802.11ax80-HE0	106	5530	MCS0	14.00	13.87
		122	5610		14.00	13.95
		138	5690		14.00	13.93
	802.11ac160-VHT0	114	5570	MCS0	10.50	10.40
	802.11ax160-HE0	114	5570	MCS0	10.50	10.38

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Tx2 antenna						
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5800 MHz	802.11n20-HT0	149	5745	MCS0	13.50	13.46
		157	5785		13.50	13.37
		165	5825		13.50	13.38
	802.11ac20-VHT0	149	5745	MCS0	13.50	13.44
		157	5785		13.50	13.37
		165	5825		13.50	13.45
	802.11ax20-HE0	149	5745	MCS0	13.50	13.46
		157	5785		13.50	13.41
		165	5825		13.50	13.39
	802.11n40-HT0	151	5755	MCS0	13.50	13.46
		159	5795		13.50	13.37
	802.11ac40-VHT0	151	5755	MCS0	13.50	13.42
		159	5795		13.50	13.45
	802.11ax40-HE0	151	5755	MCS0	13.50	13.38
		159	5795		13.50	13.38
	802.11ac80-VHT0	155	5775	MCS0	13.50	13.45
	802.11ax80-HE0	155	5775	MCS0	13.50	13.46

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Bluetooth conducted power table:

Mode	Channel	Frequency (MHz)	1Mbps		2Mbps		3Mbps	
			Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
BR/EDR	CH 00	2402	11.00	9.22	7.00	6.90	7.00	6.86
	CH 39	2441		9.23		6.99		6.96
	CH 78	2480		9.24		6.82		6.79

Mode	Channel	Frequency (MHz)	GFSK	
			Max. Rated Avg.Power + Max. Tolerance (dBm)	Average Output Power (dBm)
Bluetooth 4.0_1M	CH 37	2402	7	6.08
	CH 17	2440		6.04
	CH 39	2480		6.13

Mode	Channel	Frequency (MHz)	GFSK	
			Max. Rated Avg.Power + Max. Tolerance (dBm)	Average Output Power (dBm)
Bluetooth 4.0_2M	CH 37	2402	7	5.27
	CH 17	2440		5.21
	CH 39	2480		5.31

Mode	Channel	Frequency (MHz)	GFSK	
			Max. Rated Avg.Power + Max. Tolerance (dBm)	Average Output Power (dBm)
Bluetooth 5.0_S8	CH 37	2402	7	5.99
	CH 17	2440		5.98
	CH 39	2480		6.02

Mode	Channel	Frequency (MHz)	GFSK	
			Max. Rated Avg.Power + Max. Tolerance (dBm)	Average Output Power (dBm)
Bluetooth 5.0_S2	CH 37	2402	7	5.96
	CH 17	2440		5.97
	CH 39	2480		6.08

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1.3.1 LTE Downlink CA specification

LTE Downlink 2CA conducted power table

Two Component Carrier Maximum Conducted Power															
PCC									SCC				TX power (dBm)		Configurations
UL							DL		DL				DL CA active	DL CA inactive	
Band	Bandwidth [MHz]	Modulation	RB	RB Offset	Frequency [MHz]	Channel	Frequency [MHz]	Channel	Band	Bandwidth [MHz]	Frequency [MHz]	Channel			
LTE B5	10	QPSK	1	49	836.5	20525	881.5	2525	LTE B7	20	2655	3100	23.64	23.83	CA_5A-7A
LTE B7	20	QPSK	1	99	2535	21100	3100	2655	LTE B5	10	881.5	2525	23.45	23.46	CA_5A-7A
LTE B25	20	QPSK	1	0	1860	26140	1940	8140	LTE B26	15	876.5	8865	23.11	23.12	CA_25A-26A
LTE B26	15	QPSK	1	0	841.5	26965	886.5	8965	LTE B25	20	1962.5	8365	23.90	23.91	CA_25A-26A
LTE B25	20	QPSK	1	0	1860	26140	1940	8140	LTE B41	20	2593	40620	23.11	23.12	CA_25A-41A
LTE B41	20	QPSK	1	0	2506	39750	2506	39750	LTE B25	20	1962.5	8365	24.24	24.25	CA_25A-41A
LTE B26	15	QPSK	1	0	841.5	26965	886.5	8965	LTE B41	20	2593	40620	23.90	23.91	CA_26A-41A
LTE B41	20	QPSK	1	0	2506	39750	2506	39750	LTE B26	15	876.5	8865	24.24	24.25	CA_26A-41A
LTE B7	20	QPSK	1	99	2510	20850	2630	2850	LTE B7	20	2680	3350	23.34	23.35	CA_7A-7A
LTE B7	20	QPSK	1	0	2560	21350	2680	3350	LTE B7	20	2630	2850	23.10	23.11	CA_7A-7A
LTE B25	20	QPSK	1	0	1860	26140	1940	8140	LTE B25	20	1985	8590	23.11	23.12	CA_25A-25A
LTE B25	20	QPSK	1	0	1905	26590	1985	8590	LTE B25	20	1940	8140	23.07	23.08	CA_25A-25A
LTE B41	20	QPSK	1	0	2506	39750	2506	39750	LTE B41	20	2680	41490	24.24	24.25	CA_41A-41A
LTE B41	20	QPSK	1	0	2680	41490	2680	41490	LTE B41	20	2506	39750	23.93	23.94	CA_41A-41A
LTE B2	20	QPSK	1	0	1860	18700	1940	700	LTE B2	20	1959.8	898	23.24	23.25	CA_2C
LTE B2	20	QPSK	1	0	1900	19100	1980	1100	LTE B2	20	1960.2	902	23.17	23.18	CA_2C
LTE B7	15	QPSK	1	74	2507.5	20825	2627.5	2825	LTE B7	15	2636.8	2918	23.25	23.26	CA_7B
LTE B7	20	QPSK	1	99	2510	20850	2630	2850	LTE B7	20	2649.8	3048	23.34	23.35	CA_7C
LTE B7	20	QPSK	1	0	2560	21350	2680	3350	LTE B7	20	2660.2	3152	23.10	23.11	CA_7C

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LTE Downlink 3CA conducted power table

Three Component Carrier Maximum Conducted Power																			
PCC								SSC 1				SSC 2				TX power (dBm)		Configurations	
UL								DL				DL				DL CA active	DL CA inactive		
Band	Bandwidth [MHz]	Modulation	RB	RB Offset	Frequency [MHz]	Channel	Frequency [MHz]	Channel	Band	Bandwidth [MHz]	Frequency [MHz]	Channel	Band	Bandwidth [MHz]	Frequency [MHz]				Channel
LTE B2	20	QPSK	1	0	1880	18900	1960	900	LTE B4	20	2132.5	2175	LTE B5	10	881.5	2525	23.09	23.27	CA_2A-4A-5A
LTE B4	20	QPSK	1	0	1720	20050	2120	2050	LTE B2	20	1960	900	LTE B5	10	881.5	2525	23.01	23.17	CA_2A-4A-5A
LTE B5	10	QPSK	1	49	836.5	20525	889	2600	LTE B2	20	1960	900	LTE B4	20	2132.5	2175	23.63	23.83	CA_2A-4A-5A
LTE B2	20	QPSK	1	0	1880	18900	1960	900	LTE B4	20	2132.5	2175	LTE B12	10	737.5	5095	23.11	23.27	CA_2A-4A-12A
LTE B4	20	QPSK	1	0	1720	20050	2120	2050	LTE B2	20	1960	900	LTE B12	10	737.5	5095	23.13	23.17	CA_2A-4A-12A
LTE B12	10	QPSK	1	49	704	23060	734	5060	LTE B2	20	1960	900	LTE B4	20	2132.5	2175	22.81	22.89	CA_2A-4A-12A
LTE B2	20	QPSK	1	0	1880	18900	1960	900	LTE B4	20	2132.5	2175	LTE B13	10	751	5230	23.15	23.27	CA_2A-4A-13A
LTE B4	20	QPSK	1	0	1720	20050	2120	2050	LTE B2	20	1960	900	LTE B13	10	751	5230	23.08	23.17	CA_2A-4A-13A
LTE B13	10	QPSK	1	25	782	23230	751	5230	LTE B2	20	1960	900	LTE B4	20	2132.5	2175	22.50	22.67	CA_2A-4A-13A
LTE B2	20	QPSK	1	0	1880	18900	1960	900	LTE B29	10	722.5	9715	LTE B30	10	2355	9820	23.13	23.27	CA_2A-29A-30A
LTE B30	10	QPSK	1	0	2310	27710	2355	9820	LTE B2	20	1960	900	LTE B29	10	722.5	9715	21.90	22.09	CA_2A-29A-30A
LTE B4	20	QPSK	1	0	1720	20050	2120	2050	LTE B5	10	881.5	2525	LTE B30	10	2355	9820	23.10	23.17	CA_4A-5A-30A
LTE B5	10	QPSK	1	49	836.5	20525	889	2600	LTE B4	20	2132.5	2175	LTE B30	10	2355	9820	23.75	23.83	CA_4A-5A-30A
LTE B30	10	QPSK	1	0	2310	27710	2355	9820	LTE B5	10	881.5	2525	LTE B4	20	2132.5	2175	22.03	22.09	CA_4A-5A-30A
LTE B4	20	QPSK	1	0	1720	20050	2120	2050	LTE B12	10	737.5	5095	LTE B30	10	2355	9820	23.02	23.17	CA_4A-12A-30A
LTE B12	10	QPSK	1	49	704	23060	734	5060	LTE B4	20	2132.5	2175	LTE B30	10	2355	9820	22.71	22.89	CA_4A-12A-30A
LTE B30	10	QPSK	1	0	2310	27710	2355	9820	LTE B12	10	737.5	5095	LTE B4	20	2132.5	2175	21.85	22.09	CA_4A-12A-30A
LTE B4	20	QPSK	1	0	1720	20050	2120	2050	LTE B29	10	722.5	9715	LTE B30	10	2355	9820	23.07	23.17	CA_4A-29A-30A
LTE B30	10	QPSK	1	0	2310	27710	2355	9820	LTE B4	20	2132.5	2175	LTE B29	10	722.5	9715	22.05	22.09	CA_4A-29A-30A
LTE B2	20	QPSK	1	0	1880	18900	1960	900	LTE B4	20	2120	2050	LTE B4	20	2145	2300	23.25	23.27	CA_2A-4A-4A
LTE B4	20	QPSK	1	0	1720	20050	2120	2050	LTE B4	20	2145	2300	LTE B2	20	1960	900	23.06	23.17	CA_2A-4A-4A
LTE B4	20	QPSK	1	0	1745	20300	2145	2300	LTE B4	20	2120	2050	LTE B2	20	1960	900	22.94	23.01	CA_2A-4A-4A
LTE B4	20	QPSK	1	0	1720	20050	2120	2050	LTE B4	20	2145	2300	LTE B5	10	881.5	2525	23.05	23.17	CA_4A-4A-5A
LTE B4	20	QPSK	1	0	1745	20300	2145	2300	LTE B4	20	2120	2050	LTE B5	10	881.5	2525	22.98	23.01	CA_4A-4A-5A
LTE B5	10	QPSK	1	49	836.5	20525	889	2600	LTE B4	20	2120	2050	LTE B4	20	2145	2300	23.66	23.83	CA_4A-4A-5A
LTE B4	20	QPSK	1	0	1720	20050	2120	2050	LTE B4	20	2145	2300	LTE B12	10	737.5	5095	23.04	23.17	CA_4A-4A-12A
LTE B4	20	QPSK	1	0	1745	20300	2145	2300	LTE B4	20	2120	2050	LTE B12	10	737.5	5095	22.88	23.01	CA_4A-4A-12A
LTE B12	10	QPSK	1	49	704	23060	734	5060	LTE B4	20	2120	2050	LTE B4	20	2145	2300	22.87	22.89	CA_4A-4A-12A
LTE B4	20	QPSK	1	0	1720	20050	2120	2050	LTE B4	20	2145	2300	LTE B13	10	751	5230	23.09	23.17	CA_4A-4A-13A
LTE B4	20	QPSK	1	0	1745	20300	2145	2300	LTE B4	20	2120	2050	LTE B13	10	751	5230	22.84	23.01	CA_4A-4A-13A
LTE B13	10	QPSK	1	25	782	23230	751	5230	LTE B4	20	2120	2050	LTE B4	20	2145	2300	22.60	22.67	CA_4A-4A-13A
LTE B25	20	QPSK	1	0	1860	26140	1940	8140	LTE B41	20	2506	39750	LTE B41	20	2525.8	39948	23.03	23.12	CA_25A-41C
LTE B41	20	QPSK	1	0	2506	39750	2506	39750	LTE B41	20	2525.8	39948	LTE B25	20	1962.5	8365	24.08	24.25	CA_25A-41C
LTE B41	20	QPSK	1	0	2680	41490	2680	41490	LTE B41	20	2680.2	41292	LTE B25	20	1962.5	8365	23.74	23.84	CA_25A-41C
LTE B26	15	QPSK	1	0	841.5	26965	886.5	8865	LTE B41	20	2506	39750	LTE B41	20	2525.8	39948	23.86	23.91	CA_26A-41C
LTE B41	20	QPSK	1	0	2506	39750	2506	39750	LTE B41	20	2525.8	39948	LTE B41	20	2680	41490	24.12	24.25	CA_26A-41C
LTE B41	20	QPSK	1	0	2680	41490	2680	41490	LTE B41	20	2680.2	41292	LTE B26	15	876	8865	23.80	23.93	CA_26A-41C
LTE B41	20	QPSK	1	0	2680	41490	2680	41490	LTE B41	20	2506	39750	LTE B41	20	2525.8	39948	23.93	23.94	CA_41A-41C
LTE B41	20	QPSK	1	0	2506	39750	2506	39750	LTE B41	20	2525.8	39948	LTE B41	20	2593	40620	24.05	24.25	CA_41A-41C
LTE B41	20	QPSK	1	0	2680	41490	2680	41490	LTE B41	20	2680.2	41292	LTE B41	20	2593	40620	23.84	23.94	CA_41A-41C
LTE B66	20	QPSK	1	0	1720	132072	2120	66536	LTE B66	10	2185.1	67187	LTE B66	10	2195	67286	22.88	23.03	CA_66A-66B
LTE B66	20	QPSK	1	0	1720	132072	2120	66536	LTE B66	20	2170.2	67038	LTE B66	20	2190	67236	22.91	23.03	CA_66A-66C

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Four Component Carrier Maximum Conducted Power																				TX power (dBm)		Configurations	
SCC1										SCC2					SCC3					DL CA active	DL CA inactive		
UL					DL					DL					DL								
Band	Bandwidth [MHz]	Modulation	RB	RB Offset	Frequency [MHz]	Channel	Frequency [MHz]	Channel	Band	Bandwidth [MHz]	Frequency [MHz]	Channel	Band	Bandwidth [MHz]	Frequency [MHz]	Channel							
LTE B2	20	QPSK	1	0	1880	18900	1960	900	LTE B5	10	881.5	2525	LTE B30	10	2355	9820	LTE B66	20	2145	66786	23.14	23.27	CA_2A-5A-30A-66A
LTE B5	10	QPSK	1	49	836.5	20525	889	2600	LTE B2	20	1980	900	LTE B30	10	2355	9820	LTE B66	20	2145	66786	23.66	23.83	CA_2A-5A-30A-66A
LTE B30	10	QPSK	1	0	2310	27710	2355	960	LTE B2	20	1980	900	LTE B5	10	881.5	2525	LTE B66	20	2145	66786	22.05	22.09	CA_2A-5A-30A-66A
LTE B66	20	QPSK	1	0	1720	132072	2120	66536	LTE B2	20	1980	900	LTE B30	10	2355	9820	LTE B66	20	2145	66786	23.01	23.01	CA_2A-5A-30A-66A
LTE B2	20	QPSK	1	0	1880	18900	1960	900	LTE B12	10	737.5	5095	LTE B30	10	2355	9820	LTE B66	20	2145	66786	23.11	23.27	CA_2A12A-30A-66A
LTE B12	10	QPSK	1	49	704	23060	734	5060	LTE B2	20	1980	900	LTE B30	10	2355	9820	LTE B66	20	2145	66786	22.85	22.89	CA_2A12A-30A-66A
LTE B30	10	QPSK	1	0	2310	27710	2355	960	LTE B2	20	1980	900	LTE B12	10	737.5	5095	LTE B66	20	2145	66786	22.01	22.09	CA_2A12A-30A-66A
LTE B66	20	QPSK	1	0	1720	132072	2120	66536	LTE B2	20	1980	900	LTE B12	10	737.5	5095	LTE B30	10	2355	9820	22.88	23.03	CA_2A12A-30A-66A
LTE B2	20	QPSK	1	0	1880	18900	1960	900	LTE B13	10	761.5	5330	LTE B30	10	2355	9820	LTE B66	20	2145	66786	23.12	23.27	CA_2A12A-30A-66A
LTE B14	10	QPSK	1	49	716.5	23320	763	5330	LTE B2	20	1980	900	LTE B30	10	2355	9820	LTE B66	20	2145	66786	22.69	22.76	CA_2A14A-30A-66A
LTE B30	10	QPSK	1	0	2310	27710	2355	960	LTE B2	20	1980	900	LTE B14	10	761.5	5330	LTE B66	20	2145	66786	22.89	22.99	CA_2A14A-30A-66A
LTE B66	20	QPSK	1	0	1720	132072	2120	66536	LTE B2	20	1980	900	LTE B14	10	761.5	5330	LTE B30	10	2355	9820	22.97	23.03	CA_2A14A-30A-66A
LTE B2	20	QPSK	1	0	1880	18900	1960	900	LTE B5	10	881.5	2525	LTE B66	20	2145	66786	LTE B30	10	2355	9820	22.87	23.03	CA_2A14A-30A-66A
LTE B2	20	QPSK	1	0	1880	18900	1960	900	LTE B2	20	1980	1100	LTE B5	10	881.5	2525	LTE B66	20	2145	66786	23.06	23.25	CA_2A14A-30A-66A
LTE B2	20	QPSK	1	0	1900	19100	1980	1100	LTE B2	20	1940	700	LTE B5	10	881.5	2525	LTE B66	20	2145	66786	22.59	23.18	CA_2A14A-30A-66A
LTE B5	10	QPSK	1	49	836.5	20525	889	2600	LTE B2	20	1940	700	LTE B66	20	2145	66786	LTE B30	10	2355	9820	22.55	22.53	CA_2A14A-30A-66A
LTE B66	20	QPSK	1	0	1720	132072	2120	66536	LTE B2	20	1940	700	LTE B2	20	1980	1100	LTE B5	10	881.5	2525	22.53	23.03	CA_2A14A-30A-66A
LTE B2	20	QPSK	1																				

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LTE Downlink 5CA conducted power table

Five Component Carrier Maximum Conducted Power															
PCC									SCC 1				TX power (dBm)		Configuration
UL							DL						DL CA active	DL CA inactive	
Band	Bandwidth [MHz]	Modulation	RB	RB Offset	Frequency [MHz]	Channel	Frequency [MHz]	Channel	Band	Bandwidth [MHz]	Frequency [MHz]	Channel			
LTE B2	20	QPSK	1	0	1880	18900	1940	700	LTE B5	10	874	2450	23.09	23.27	CA 2A-5B-30A-66A
LTE B5	10	QPSK	1	49	829	20450	874	2450	LTE B5	10	883.9	2549	23.78	23.81	CA 2A-5B-30A-66A
LTE B5	10	QPSK	1	49	844	20600	889	2600	LTE B5	10	879.1	2501	23.59	23.79	CA 2A-5B-30A-66A
LTE B30	10	QPSK	1	0	2310	27710	2355	9820	LTE B2	20	1960	900	21.92	22.09	CA 2A-5B-30A-66A
LTE B66	20	QPSK	1	0	1720	132072	2120	66536	LTE B2	20	1960	900	22.87	23.03	CA 2A-5B-30A-66A
LTE B2	20	QPSK	1	0	1880	18900	1940	700	LTE B5	10	874	2450	23.20	23.27	CA 2A-5B-66A-66A
LTE B5	10	QPSK	1	49	829	20450	874	2450	LTE B5	10	883.9	2549	23.71	23.81	CA 2A-5B-66A-66A
LTE B5	10	QPSK	1	49	844	20600	889	2600	LTE B5	10	879.1	2501	23.74	23.79	CA 2A-5B-66A-66A
LTE B66	20	QPSK	1	0	1720	132072	2120	66536	LTE B66	20	2170	67036	22.98	23.03	CA 2A-5B-66A-66A
LTE B66	20	QPSK	1	0	1770	132572	2170	67036	LTE B66	20	2120	66536	22.85	22.88	CA 2A-5B-66A-66A
LTE B41	20	QPSK	1	0	2506	39750	2506	39750	LTE B41	20	2525.8	39948	24.10	24.25	CA 41C-41D
LTE B41	20	QPSK	1	0	2680	41490	2680	41490	LTE B41	20	2660.2	41292	23.78	23.94	CA 41C-41D
LTE B41	20	QPSK	1	0	2506	39750	2506	39750	LTE B41	20	2525.8	39948	24.14	24.25	CA 41C-41D
LTE B41	20	QPSK	1	99	2593	40620	2593	40620	LTE B41	20	2573.2	40422	23.71	23.88	CA 41C-41D
LTE B41	20	QPSK	1	0	2680	41490	2680	41490	LTE B41	20	2660.2	41292	23.89	23.94	CA 41C-41D

Five Component Carrier Maximum Conducted Power														
SCC 2				SCC 3				SCC 4				TX power (dBm)		Configurations
DL				DL				DL				DL CA active	DL CA inactive	
Band	Bandwidth [MHz]	Frequency [MHz]	Channel	Band	Bandwidth [MHz]	Frequency [MHz]	Channel	Band	Bandwidth [MHz]	Frequency [MHz]	Channel			
LTE B5	10	883.9	2549	LTE B30	10	2355	9820	LTE B66	20	2139.8	66374	23.09	23.27	CA 2A-5B-30A-66A
LTE B2	20	1960	900	LTE B30	10	2355	9820	LTE B66	20	2139.8	66374	23.78	23.81	CA 2A-5B-30A-66A
LTE B2	20	1960	900	LTE B30	10	2355	9820	LTE B66	20	2139.8	66374	23.59	23.79	CA 2A-5B-30A-66A
LTE B5	10	874	2450	LTE B5	10	883.9	2549	LTE B66	20	6673.4	2139.8	21.92	22.09	CA 2A-5B-30A-66A
LTE B5	10	874	2450	LTE B5	10	883.9	2549	LTE B30	10	2355	9820	22.87	23.03	CA 2A-5B-30A-66A
LTE B5	10	883.9	2549	LTE B66	20	2120	66536	LTE B66	20	2170	67036	23.20	23.27	CA 2A-5B-66A-66A
LTE B66	20	2120	66536	LTE B66	20	2170	67036	LTE B2	20	1960	900	23.71	23.81	CA 2A-5B-66A-66A
LTE B66	20	2120	66536	LTE B66	20	2170	67036	LTE B2	20	1960	900	23.74	23.79	CA 2A-5B-66A-66A
LTE B5	10	2450	874	LTE B5	10	2549	883.9	LTE B2	20	1960	900	22.98	23.03	CA 2A-5B-66A-66A
LTE B5	10	2450	874	LTE B5	10	2549	883.9	LTE B2	20	1960	900	22.85	22.88	CA 2A-5B-66A-66A
LTE B41	20	2506	39750	LTE B41	20	2525.8	39948	LTE B41	20	2545.6	40146	24.10	24.25	CA 41C-41D
LTE B41	20	2506	39750	LTE B41	20	2525.8	39948	LTE B41	20	2545.6	40146	23.78	23.94	CA 41C-41D
LTE B41	20	2545.6	40146	LTE B41	20	2660.2	41292	LTE B41	20	2680	41490	24.14	24.25	CA 41C-41D
LTE B41	20	2612.8	40818	LTE B41	20	2583.1	40521	LTE B41	20	2602.9	40719	23.71	23.88	CA 41C-41D
LTE B41	20	2640.4	41094	LTE B41	20	2660.2	41292	LTE B41	20	2680	41490	23.89	23.94	CA 41C-41D

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LTE CA information**A)**

The device supports downlink LTE Carrier Aggregation (CA) only. It supports a maximum of 5 carriers in the downlink. Other Release 10 features or higher features are not supported, including Uplink Carrier Aggregation, Enhanced SC-FDMA and Uplink MIMO or other antenna diversity configurations etc. All uplink communications are identical to the Release 8 Specifications.

The possible downlink LTE CA combinations supported by this device are as below tables per 3GPP TS 36.521-1 V16.0.0. The conducted power measurement results of downlink LTE CA are provided as above per 3GPP TS 36.521-1 V16.0.0. According to KDB 941225 D05A and RF exposure procedures in TCB workshop April 2018, the downlink LTE CA SAR test is not required.

B)**CA combination table**

Index	2CC	Restriction	Completely Covered by Measurement Superset	Index	3CC	Restriction	Completely Covered by Measurement Superset	Index	4CC	Restriction	Completely Covered by Measurement Superset	Index	5CC	Restriction	Completely Covered by Measurement Superset
2CC #1	CA 2A-4A		3CC #1	3CC #1	CA 2A-4A-5A		No	4CC #1	CA 2A-5A-30A-66A		No	5CC #1	CA 2A-5B-30A-66A		No
2CC #2	CA 2A-5A		3CC #2	3CC #2	CA 2A-4A-12A		No	4CC #2	CA 2A-12A-30A-66A		No	5CC #2	CA 2A-5B-66A-66A		No
2CC #3	CA 2A-12A		3CC #3	3CC #3	CA 2A-4A-13A		No	4CC #3	CA 2A-14A-30A-66A		No	5CC #3	CA 41C-41D		No
2CC #4	CA 2A-13A		3CC #4	3CC #4	CA 2A-5A-30A		4CC #1	CA 2A-2A-5A-66A		No					
2CC #5	CA 2A-14A		3CC #5	3CC #5	CA 2A-12A-30A		4CC #2	CA 2A-2A-12A-30A		No					
2CC #7	CA 2A-29A	B29 SCC only	3CC #6	3CC #6	CA 2A-29A-30A	B29 SCC only	No	4CC #6	CA 2A-2A-12A-66A		No				
2CC #8	CA 2A-30A		3CC #6	3CC #7	CA 2A-5A-66A		4CC #1	CA 2A-2A-13A-66A		No					
2CC #9	CA 2A-66A		3CC #7	3CC #8	CA 2A-13A-66A		4CC #7	CA 2A-5A-66A-66A		No					
2CC #10	CA 4A-5A		3CC #13	3CC #9	CA 2A-14A-30A		4CC #3	CA 2A-12A-66A-66A		No					
2CC #11	CA 4A-12A		3CC #14	3CC #10	CA 2A-14A-66A		4CC #3	CA 2A-13A-66A-66A		No					
2CC #12	CA 4A-13A		3CC #9	3CC #11	CA 2A-30A-66A		4CC #1	CA 5A-30A-66A-66A		No					
2CC #13	CA 4A-29A	B29 SCC only	3CC #15	3CC #12	CA 2A-12A-66A		4CC #2	CA 29A-30A-66A-66A	B29 SCC only	No					
2CC #14	CA 4A-30A		3CC #14	3CC #13	CA 4A-5A-30A		No	4CC #13	CA 2A-5B-30A		SCC #1				
2CC #15	CA 5A-7A		No	3CC #14	CA 4A-12A-30A		No	4CC #14	CA 2A-5B-66A		SCC #1				
2CC #16	CA 5A-30A		3CC #4	3CC #15	CA 4A-29A-30A	B29 SCC only	No	4CC #15	CA 2A-5A-66B						
2CC #17	CA 5A-66A		3CC #7	3CC #16	CA 5A-30A-66A		4CC #1	4CC #16	CA 2A-5A-66C		No				
2CC #18	CA 12A-30A		3CC #5	3CC #17	CA 12A-30A-66A		4CC #2	4CC #17	CA 2A-13A-66B		No				
2CC #19	CA 12A-66A		3CC #12	3CC #18	CA 14A-30A-66A		4CC #3	4CC #18	CA 2A-13A-66C		No				
2CC #20	CA 13A-66A		3CC #8	3CC #19	CA 29A-30A-66A	B29 SCC only	4CC #12	4CC #19	CA 5B-30A-66A		SCC #1				
2CC #21	CA 14A-30A		3CC #9	3CC #20	CA 2A-2A-5A		4CC #4	4CC #20	CA 5A-5A-66B		No				
2CC #22	CA 14A-66A		3CC #10	3CC #21	CA 2A-2A-12A		4CC #5	4CC #21	CA 5A-5A-66C		No				
2CC #23	CA 25A-26A		No	3CC #22	CA 2A-2A-13A		4CC #7	4CC #22	CA 5B-66A-66A		SCC #2				
2CC #24	CA 25A-41A		No	3CC #23	CA 2A-2A-30A		4CC #5	4CC #23	CA 29A-41D		No				
2CC #25	CA 29A-41A		No	3CC #24	CA 2A-2A-66A		4CC #6	4CC #24	CA 41C-41D		No				
2CC #26	CA 29A-30A	B29 SCC only	3CC #6	3CC #25	CA 2A-4A-4A		No	4CC #25	CA 41C-41C		No				
2CC #27	CA 29A-66A	B29 SCC only	3CC #19	3CC #26	CA 2A-66A-66A		4CC #8								
2CC #28	CA 30A-66A		3CC #16	3CC #27	CA 4A-4A-5A		No								
2CC #29	CA 3A-2A		3CC #20	3CC #28	CA 4A-4A-12A		No								
2CC #30	CA 4A-4A		3CC #25	3CC #29	CA 4A-4A-13A		No								
2CC #31	CA 7A-7A		No	3CC #30	CA 5A-66A-66A		4CC #8								
2CC #32	CA 25A-25A		No	3CC #31	CA 12A-66A-66A		4CC #9								
2CC #33	CA 41A-41A		No	3CC #32	CA 13A-66A-66A		4CC #10								
2CC #34	CA 66A-66A		3CC #30	3CC #33	CA 29A-66A-66A	B29 SCC only	4CC #12								
2CC #35	CA 2C		No	3CC #34	CA 30A-66A-66A		4CC #11								
2CC #36	CA 5B		3CC #35	3CC #35	CA 2A-6B		4CC #13								
2CC #37	CA 7B		No	3CC #36	CA 2A-66B		4CC #15								
2CC #38	CA 7C		No	3CC #37	CA 2A-66C		4CC #16								
2CC #39	CA 41C		3CC #44	3CC #38	CA 5B-30A		4CC #13								
2CC #40	CA 66B		3CC #36	3CC #39	CA 5B-66A		4CC #14								
2CC #41	CA 66C		3CC #37	3CC #40	CA 5A-66B		4CC #15								
				3CC #41	CA 5A-66C		4CC #16								
				3CC #42	CA 13A-66B		4CC #17								
				3CC #43	CA 13A-66C		4CC #18								
				3CC #44	CA 25A-41C		No								
				3CC #45	CA 26A-41C		No								
				3CC #46	CA 41A-41C		No								
				3CC #47	CA 66A-66B		No								
				3CC #48	CA 66A-66C		No								
				3CC #49	CA 41D		4CC #23								

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Note:

- 1) For the inter-band CA combinations, except B29 can't be PCC, all the listed bands above can be used as PCC or SCC.
- 2) The channel spacing and aggregated channel bandwidth for CA are identical to the associated specification in 3GPP TS 36.521-1 V16.0.0.
- 3) The reference test frequencies for CA refers to 3GPP TS 36.508 V16.1.0
- 4) Testing is not required in bands or modes not intended/allowed for US operation
- 5) Based on TCB workshop April 2018, only indicate "No" in CA combination table need power measurement

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1.4 Test Environment

Ambient Temperature: 22±2° C

Tissue Simulating Liquid: 22±2° C

1.5 Operation Description

For WWAN, the EUT is controlled by using a Radio Communication Tester, and the communication between the EUT and the tester is established by air link.

For WLAN, using chipset specific software to control the EUT, and makes it transmit in maximum power. The EUT is set to maximum power level during all tests, and at the beginning of each test the battery is fully charged.

The device was tested based on KDB inquiry as below,

WWAN

Notebook mode

SAR measurement for Notebook SAR is not required since the distance between antenna and user is > 20cm

Tablet mode

Back/edges_0mm

WLAN

Notebook mode (corresponding Notebook mode power)

WLAN SAR measurement for notebook mode is performed with the keyboard bottom touch against the flat phantom.

Tablet mode (corresponding Tablet mode power)

Back/edges_0mm

Whatever notebook mode or tablet mode, SISO and MIMO SAR are measured for Main and Aux antennas separately and individually (standalone SAR measurements).

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Note:

1. During the SAR testing, the DASY 5 system checks power drift by comparing the e-field strength of one specific location measured at the beginning with that measured at the end of the SAR testing.
2. The 3G SAR test reduction procedure is applied to HSDPA with 12.2 kbps RMC as the primary mode. Since the maximum output power in a secondary mode (HSDPA) is $\leq \frac{1}{4}$ dB higher than the primary mode (WCDMA), SAR measurement is not required for the secondary mode (HSDPA). The following 4 sub-tests were completed according to Release 5 procedures in section 5.2 of 3GPP TS 34.121. A summary of these setting are illustrated below:

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	$\beta_{HS}^{(1)/(2)}$	CM ⁽³⁾ (dB)	MPR ⁽³⁾ (dB)
1	2/15	15/15	64	2/15	4/15	0.0	0.0
2	12/15 ⁽⁴⁾	15/15 ⁽⁴⁾	64	12/15 ⁽⁴⁾	24/15	1.0	0.0
3	15/15	8/15	64	15/8	30/15	1.5	0.5
4	15/15	4/15	64	15/4	30/15	1.5	0.5

Note 1: Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 30/15$ with $\beta_{HS} = 30/15 * \beta_c$.

Note 2: For the HS-DPCCH power mask requirement test in clause 5.2C, 5.7A, and the Error Vector Magnitude (EVM) with HS-DPCCH test in clause 5.13.1A, and HSDPA EVM with phase discontinuity in clause 5.13.1AA, Δ_{ACK} and $\Delta_{NACK} = 30/15$ with $\beta_{HS} = 30/15 * \beta_c$, and $\Delta_{CQI} = 24/15$ with $\beta_{HS} = 24/15 * \beta_c$.

Note 3: CM = 1 for $\beta_d/\beta_c = 12/15$, $\beta_{HS}/\beta_c = 24/15$. For all other combinations of DPDCCH, DPCCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases.

Note 4: For subtest 2 the β_d/β_c ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 11/15$ and $\beta_d = 15/15$.

3. The 3G SAR test reduction procedure is applied to HSPA (HSUPA/HSDPA with RMC) with 12.2 kbps RMC as the primary mode. Since the maximum output power in a secondary mode (HSPA) is $\leq \frac{1}{4}$ dB higher than the primary mode (WCDMA), SAR measurement is not required for the secondary mode (HSPA). The following 5 sub-tests were completed according to Release 6 procedures in section 5.2 of 3GPP TS 34.121. A summary of these setting are illustrated below:

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Sub-test	β_c	β_d	β_d (SF)	β_c / β_d	$\beta_{HS}^{(1)}$	β_{ec}	$\beta_{ed}^{(4)(5)}$	β_{ed} (SF)	β_{ed} (Codes)	CM ⁽²⁾ (dB)	MPR ⁽²⁾⁽⁶⁾ (dB)	AG ⁽⁵⁾ Index	E-TFCI
1	11/15 ⁽³⁾	15/15 ⁽³⁾	64	11/15 ⁽³⁾	22/15	209/225	1309/225	4	1	1.0	0.0	20	75
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67
3	15/15	9/15	64	15/9	30/15	30/15	$\beta_{ed1}: 47/15$ $\beta_{ed2}: 47/15$	4	2	2.0	1.0	15	92
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71
5	15/15	0	-	-	5/15	5/15	47/15	4	1	1.0	0.0	12	67

Note 1: For sub-test 1 to 4, Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 30/15$ with $\beta_{HS} = 30/15 * \beta_c$. For sub-test 5, Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 5/15$ with $\beta_{HS} = 5/15 * \beta_c$.
Note 2: CM = 1 for $\beta_c/\beta_d = 12/15$, $\beta_{HS}/\beta_c = 24/15$. For all other combinations of DPDCCH, DPCCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.
Note 3: For subtest 1 the β_c/β_d ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF0) to $\beta_c = 10/15$ and $\beta_d = 15/15$.
Note 4: In case of testing by UE using E-DPDCH Physical Layer category 1, Sub-test 3 is omitted according to TS25.306 Table 5.1g.
Note 5: β_{ed} can not be set directly; it is set by Absolute Grant Value.
Note 6: For subtests 2, 3 and 4, UE may perform E-DPDCH power scaling at max power which could results in slightly smaller MPR values.

4. The 3G SAR test reduction procedure is applied to HSPA+ with 12.2 kbps RMC as the primary mode. Since the maximum output power in a secondary mode (HSPA+) is $\leq 1/4$ dB higher than the primary mode (WCDMA), SAR measurement is not required for the secondary mode (HSPA+). The following 1 sub-test was completed according to Release 7 procedures in section 5.2 of 3GPP TS34.121. A summary of these settings are illustrated below:

Table C.11.1.4: β values for transmitter characteristics tests with HS-DPCCH and E-DCH with 16QAM

Sub-test	β_c (Note 3)	β_d	β_{HS} (Note 1)	β_{ec}	β_{ed} (2xSF2) (Note 4)	β_{ed} (2xSF4) (Note 4)	CM (dB) (Note 2)	MPR (dB) (Note 2)	AG Index (Note 4)	E-TFCI (Note 5)	E-TFCI (boost)
1	1	0	30/15	30/15	$\beta_{ed1}: 30/15$ $\beta_{ed2}: 30/15$	$\beta_{ed3}: 24/15$ $\beta_{ed4}: 24/15$	3.5	2.5	14	105	105

Note 1: Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 30/15$ with $\beta_{HS} = 30/15 * \beta_c$.
Note 2: CM = 3.5 and the MPR is based on the relative CM difference, MPR = MAX(CM-1,0).
Note 3: DPDCCH is not configured, therefore the β_c is set to 1 and $\beta_d = 0$ by default.
Note 4: β_{ed} can not be set directly; it is set by Absolute Grant Value.
Note 5: All the sub-tests require the UE to transmit 2SF2+2SF4 16QAM EDCH and they apply for UE using E-DPDCH category 7. E-DCH TTI is set to 2ms TTI and E-DCH table index = 2. To support these E-DCH configurations DPDCCH is not allocated. The UE is signalled to use the extrapolation algorithm.

5. The 3G SAR test reduction procedure is applied to DC-HSDPA with 12.2 kbps RMC as the primary mode. Power is measured for DC-HSDPA according to the H-Set 12, FRC configuration in Table C.8.1.12 of 3GPP TS 34.121-1 to determine SAR test reduction. A primary and a secondary serving HS-DSCH Cell are required to perform the power measurement and for the results to be acceptable. Since the maximum output power in a secondary mode (DC-HSDPA) is $\leq 1/4$ dB higher than the primary mode (WCDMA), SAR measurement is not required for the secondary mode (DC-HSDPA). The

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following tests were completed according to procedures in section 7.3.13 of 3GPP TS 34.108 v9.5.0. A summary of these setting are illustrated below:

The configurations of the fixed reference channels for HSDPA RF tests are described in 3GPP TS 34.121, annex C for FDD and 3GPP TS 34.122

Table C.8.1.12: Fixed Reference Channel H-Set 12

Parameter	Unit	Value
Nominal Avg. Inf. Bit Rate	kbps	60
Inter-TTI Distance	TTI's	1
Number of HARQ Processes	Processes	6
Information Bit Payload (N_{INF})	Bits	120
Number Code Blocks	Blocks	1
Binary Channel Bits Per TTI	Bits	960
Total Available SML's in UE	SML's	19200
Number of SML's per HARQ Proc.	SML's	3200
Coding Rate		0.15
Number of Physical Channel Codes	Codes	1
Modulation		QPSK
Note 1: The RMC is intended to be used for DC-HSDPA mode and both cells shall transmit with identical parameters as listed in the table.		
Note 2: Maximum number of transmission is limited to 1, i.e., retransmission is not allowed. The redundancy and constellation version 0 shall be used.		

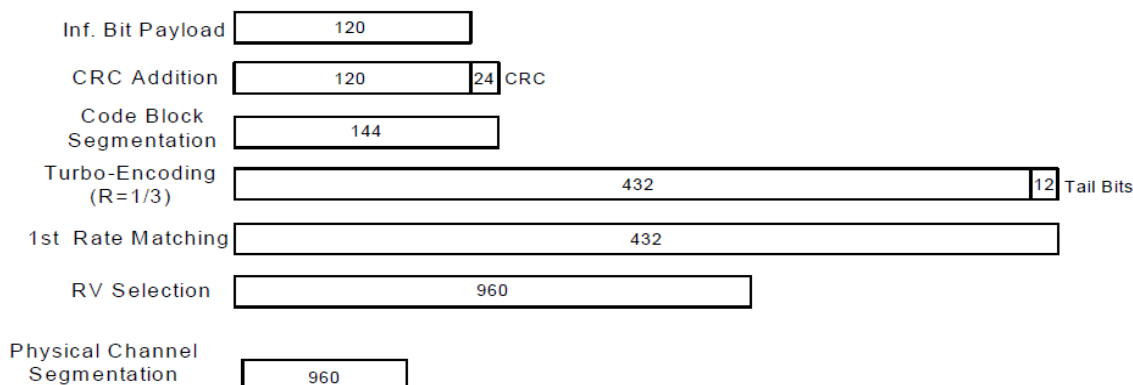


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)

The following 4 sub-tests for HSDPA were completed according to Release 8 procedures in section 5.2 of 3GPP TS34.121. A summary of subtest settings are illustrated below:

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Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	$\beta_{HS}^{(1)/(2)}$	CM ⁽³⁾ (dB)	MPR ⁽³⁾ (dB)
1	2/15	15/15	64	2/15	4/15	0.0	0.0
2	12/15 ⁽⁴⁾	15/15 ⁽⁴⁾	64	12/15 ⁽⁴⁾	24/15	1.0	0.0
3	15/15	8/15	64	15/8	30/15	1.5	0.5
4	15/15	4/15	64	15/4	30/15	1.5	0.5

Note 1: Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 30/15$ with $\beta_{HS} = 30/15 * \beta_c$.

Note 2: For the HS-DPCCH power mask requirement test in clause 5.2C, 5.7A, and the Error Vector Magnitude (EVM) with HS-DPCCH test in clause 5.13.1A, and HSDPA EVM with phase discontinuity in clause 5.13.1AA, Δ_{ACK} and $\Delta_{NACK} = 30/15$ with $\beta_{HS} = 30/15 * \beta_c$, and $\Delta_{CQI} = 24/15$ with $\beta_{HS} = 24/15 * \beta_c$.

Note 3: CM = 1 for $\beta_c/\beta_d = 12/15$, $\beta_{HS}/\beta_c = 24/15$. For all other combinations of DPDCCH, DPCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases.

Note 4: For subtest 2 the β_c/β_d ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 11/15$ and $\beta_d = 15/15$.

6. LTE modes test according to **KDB 941225D05v02r05**.

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.

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d. Per Section 5.2.4, Higher order modulations

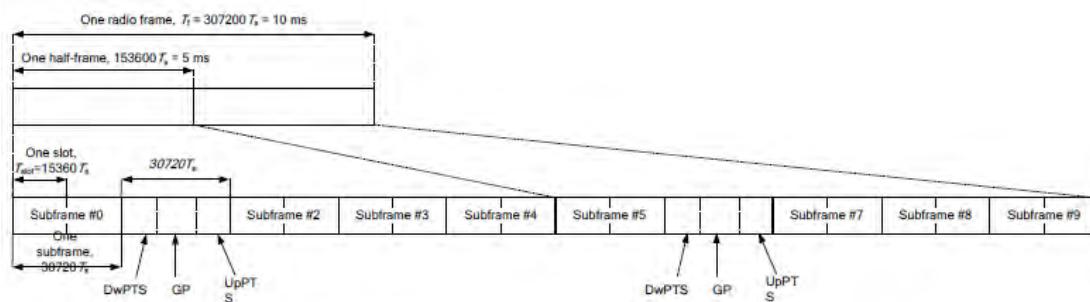
- For each modulation besides QPSK; e.g., 16-QAM, 64-QAM, apply the QPSK procedures in sections 5.2.1, 5.2.2 and 5.2.3 to determine the QAM configurations that may need SAR measurement. For each configuration identified as required for testing, SAR is required only when the highest maximum output power for the configuration in the higher order modulation is $> \frac{1}{2}$ 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 $> \frac{1}{2}$ 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 modulation etc. is determined for the smaller channel bandwidth according to the same number of RB allocated in the largest channel bandwidth.
- TDD LTE was tested at highest duty factor using UL-DL configuration 0 with 6 UL subframes and 2 S subframes using extended cyclic prefix only and special subframe configuration 7. SAR tests were performed at maximum output power and worst-case transmission duty factor in extended cyclic prefix. Per 3GPP 36.211 Section 4, the duty factor for special subframe configuration 6 using extended cyclic prefix is 0.633. According to KDB 941225 D05, SAR testing for TDD LTE must be tested using a fixed periodic duty factor according to the highest transmission duty factor implemented for the device and supported by the defined 3GPP TDD LTE configurations. The TDD-LTE of this device supports frame structure type 2 defined in 3GPP TS 36.211 section 4.2, and the frame structure configuration can be tabulated as below.

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3GPP TS 36.211 Figure 4.2-1: Frame Structure Type 2

Special Subframe Configuration	Normal Cyclic Prefix in Downlink			Extended Cyclic Prefix in Downlink		
	DwPTS	UpPTS		DwPTS	UpPTS	
		Normal Cyclic Prefix in Uplink	Extended Cyclic Prefix in Uplink		Normal Cyclic Prefix in Uplink	Extended Cyclic Prefix in Uplink
0	6592 • Ts	2192 • Ts	2560 • Ts	7680 • Ts	2192 • Ts	2560 • Ts
1	19760 • Ts			20480 • Ts		
2	21952 • Ts			23040 • Ts		
3	24144 • Ts			25600 • Ts		
4	26336 • Ts			7680 • Ts		
5	6592 • Ts	4384 • Ts	5120 • Ts	20480 • Ts	4384 • Ts	5120 • Ts
6	19760 • Ts			23040 • Ts		
7	21952 • Ts			12800 • Ts		
8	24144 • Ts			-		
9	13168 • Ts			-		

3GPP TS 36.211 Table 4.2-1: Configuration of Special Subframe

Uplink-Downlink Configuration	Downlink-to-Uplink Switch-Point Periodicity	Subframe Number									
		0	1	2	3	4	5	6	7	8	9
0	5 ms	D	S	U	U	U	D	S	U	U	U
1	5 ms	D	S	U	U	D	D	S	U	U	D
2	5 ms	D	S	U	D	D	D	S	U	D	D
3	10 ms	D	S	U	U	D	D	D	D	D	D
4	10 ms	D	S	U	U	D	D	D	D	D	D
5	10 ms	D	S	U	D	D	D	D	D	D	D
6	5 ms	D	S	U	U	U	D	S	U	U	D

3GPP TS 36.211 Table 4.2-2: Uplink-Downlink Configurations

The uplink duty cycle of these seven configurations can be computed as below.

UL-DL Configuration	0	1	2	3	4	5	6
Highest Duty-Cycle	63.33%	43.33%	23.33%	31.67%	21.67%	11.67%	53.33%

Considering the highest transmission duty cycle, TDD LTE was tested using Uplink-Downlink configuration 0 with 6 uplink subframe and 2 special subframe. The special subframe was set to special subframe configuration 7 using extended cyclic prefix uplink. Therefore, SAR testing for TDD LTE was measured at the maximum output power with highest transmission duty cycle of 63.33%.

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LTE downlink CA (KDB942225 D05A)

7. The device supports a maximum of 5 carriers in the downlink. All uplink communications are identical to the Release 8 specifications. Uplink maximum output power is measured with downlink carrier aggregation active, only for the channel with highest measured maximum output power when downlink carrier aggregation is inactive, to confirm that when downlink carrier aggregation is active uplink maximum output power remains within the specified tune-up tolerance limits and not more than ¼ dB higher than the maximum output power measured when downlink carrier aggregation inactive.
8. The downlink channels selected to perform the uplink power measurement must satisfy 3GPP channel spacing (5.4.1A of 3GPP TS 36.521 or equivalent) and channel bandwidth (5.4.2A) requirements. The nominal channel spacing is determined by $[BW1 + BW2 - 0.1 \cdot |BW1 - BW2|] / 2$ MHz, where BW1 and BW2 are the channel bandwidths of the CC in a 2-CC aggregation configuration.
9. The downlink PCC channel should be paired with the uplink channel according to normal configurations, as if there is no carrier aggregation. The downlink SCC should be adjacent to the PCC and remain within the downlink transmission band for contiguous intra-band CA. For non-contiguous intra-band CA, the SCC should be selected to provide maximum separation from the PCC and must remain fully within the downlink transmission band. For inter-band CA, the SCC should be near the middle of its transmission band.
10. When downlink carrier aggregation is active uplink maximum output power remains within the specified tune-up tolerance limits and not more than ¼ dB higher than the maximum output power measured when downlink carrier aggregation inactive, so SAR evaluation is not required for downlink carrier aggregation.
11. 802.11b DSSS SAR Test Requirements:
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

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DSSS in that exposure configuration.

12. 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:

13. 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.

Initial Test Configuration:

14. 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.
15. 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.
16. When the highest reported SAR for the initial test configuration is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for subsequent test configuration.
17. BT and WLAN Tx1 use the same antenna path, but they can't transmit at the same time.
18. 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.
19. 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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20.SAR test exclusion evaluation (based on KDB447498D01v06) for surfaces /edges of tablet mode is evaluated as below.

Mode	Max. tune-up power(dBm)	Max. tune-up power(mW)	Back side					Top side					Bottom side				
			Test separation distance (mm)	Calculation value	Exclusion thresholds	Require SAR testing?	Estimated SAR (W/kg)	Test separation distance (mm)	Calculation value	Exclusion thresholds	Require SAR testing?	Estimated SAR (W/kg)	Test separation distance (mm)	Calculation value	Exclusion thresholds	Require SAR testing?	Estimated SAR (W/kg)
WLAN Tx1 2.45GHz	20	100.000	7.85	20.029	3.000	YES	-	Less than 5	31.445	3.000	YES	-	224.9	>20cm	>20cm	NO	-
WLAN Tx2 2.45GHz	19	79.433	7.85	15.909	3.000	YES	-	Less than 5	24.978	3.000	YES	-	224.9	>20cm	>20cm	NO	-
WLAN Tx1 5GHz	19	79.433	7.85	24.422	3.000	YES	-	Less than 5	38.342	3.000	YES	-	224.9	>20cm	>20cm	NO	-
WLAN Tx2 5GHz	18.5	70.795	7.85	21.766	3.000	YES	-	Less than 5	34.173	3.000	YES	-	224.9	>20cm	>20cm	NO	-
Bluetooth	11	12.589	7.85	2.526	3.000	NO	0.337	Less than 5	3.965	3.000	YES	-	224.9	>20cm	>20cm	NO	-
WCDMA B2	24.5	281.838	20	19.475	3.000	YES	-	16.18	24.073	3.000	YES	-	214.245	>20cm	>20cm	NO	-
WCDMA B4	24.5	281.838	20	18.668	3.000	YES	-	16.18	23.076	3.000	YES	-	214.245	>20cm	>20cm	NO	-
WCDMA B5	24.5	281.838	20	12.984	3.000	YES	-	16.18	16.050	3.000	YES	-	214.245	>20cm	>20cm	NO	-
LTE Band 2	24	251.189	20	17.357	3.000	YES	-	16.18	21.455	3.000	YES	-	214.245	>20cm	>20cm	NO	-
LTE Band 4	24	251.189	20	16.638	3.000	YES	-	16.18	20.566	3.000	YES	-	214.245	>20cm	>20cm	NO	-
LTE Band 5	25	316.228	20	14.569	3.000	YES	-	16.18	18.006	3.000	YES	-	214.245	>20cm	>20cm	NO	-
LTE Band 7	24	251.189	20	20.134	3.000	YES	-	16.18	24.888	3.000	YES	-	214.245	>20cm	>20cm	NO	-
LTE Band 12	24	251.189	20	10.627	3.000	YES	-	16.18	13.136	3.000	YES	-	214.245	>20cm	>20cm	NO	-
LTE Band 13	24	251.189	20	11.142	3.000	YES	-	16.18	13.772	3.000	YES	-	214.245	>20cm	>20cm	NO	-
LTE Band 14	24	251.189	20	11.219	3.000	YES	-	16.18	13.868	3.000	YES	-	214.245	>20cm	>20cm	NO	-
LTE Band 17	24	251.189	20	10.627	3.000	YES	-	16.18	13.136	3.000	YES	-	214.245	>20cm	>20cm	NO	-
LTE Band 25	24	251.189	20	17.380	3.000	YES	-	16.18	21.484	3.000	YES	-	214.245	>20cm	>20cm	NO	-
LTE Band 26	25	316.228	20	14.569	3.000	YES	-	16.18	18.006	3.000	YES	-	214.245	>20cm	>20cm	NO	-
LTE Band 30	23	199.526	20	15.179	3.000	YES	-	16.18	18.763	3.000	YES	-	214.245	>20cm	>20cm	NO	-
LTE Band 38	24	251.189	20	20.329	3.000	YES	-	16.18	25.129	3.000	YES	-	214.245	>20cm	>20cm	NO	-
LTE Band 41	25	316.228	20	25.933	3.000	YES	-	16.18	32.055	3.000	YES	-	214.245	>20cm	>20cm	NO	-
LTE Band 66	24	251.189	20	16.756	3.000	YES	-	16.18	20.712	3.000	YES	-	214.245	>20cm	>20cm	NO	-

Mode	Max. tune-up power(dBm)	Max. tune-up power(mW)	Right side					Left side				
			Test separation distance (mm)	Calculation value	Exclusion thresholds	Require SAR testing?	Estimated SAR (W/kg)	Test separation distance (mm)	Calculation value	Exclusion thresholds	Require SAR testing?	Estimated SAR (W/kg)
WLAN Tx1 2.45GHz	20	100.000	92.13	424.445	516.704	NO	0.400	167.93	1182.445	1274.704	NO	0.400
WLAN Tx2 2.45GHz	19	79.433	167.93	1181.798	1274.704	NO	0.400	92.13	423.798	516.704	NO	0.400
WLAN Tx1 5GHz	19	79.433	92.13	425.134	483.450	NO	0.400	167.93	1183.134	1241.450	NO	0.400
WLAN Tx2 5GHz	18.5	70.795	167.93	1182.717	1241.450	NO	0.400	92.13	424.717	483.450	NO	0.400
Bluetooth	11	12.589	167.93	1179.697	1274.550	NO	0.400	92.13	421.697	516.550	NO	0.400
WCDMA B2	24.5	281.838	16.25	23.970	3.000	YES	-	228.81	>20cm	>20cm	NO	-
WCDMA B4	24.5	281.838	16.25	22.977	3.000	YES	-	228.81	>20cm	>20cm	NO	-
WCDMA B5	24.5	281.838	16.25	15.981	3.000	YES	-	228.81	>20cm	>20cm	NO	-
LTE Band 2	24	251.189	16.25	21.363	3.000	YES	-	228.81	>20cm	>20cm	NO	-
LTE Band 4	24	251.189	16.25	20.478	3.000	YES	-	228.81	>20cm	>20cm	NO	-
LTE Band 5	25	316.228	16.25	17.931	3.000	YES	-	228.81	>20cm	>20cm	NO	-
LTE Band 7	24	251.189	16.25	24.781	3.000	YES	-	228.81	>20cm	>20cm	NO	-
LTE Band 12	24	251.189	16.25	13.080	3.000	YES	-	228.81	>20cm	>20cm	NO	-
LTE Band 13	24	251.189	16.25	13.713	3.000	YES	-	228.81	>20cm	>20cm	NO	-
LTE Band 14	24	251.189	16.25	13.809	3.000	YES	-	228.81	>20cm	>20cm	NO	-
LTE Band 17	24	251.189	16.25	13.080	3.000	YES	-	228.81	>20cm	>20cm	NO	-
LTE Band 25	24	251.189	16.25	21.391	3.000	YES	-	228.81	>20cm	>20cm	NO	-
LTE Band 26	25	316.228	16.25	17.931	3.000	YES	-	228.81	>20cm	>20cm	NO	-
LTE Band 30	23	199.526	16.25	18.682	3.000	YES	-	228.81	>20cm	>20cm	NO	-
LTE Band 38	24	251.189	16.25	25.021	3.000	YES	-	228.81	>20cm	>20cm	NO	-
LTE Band 41	25	316.228	16.25	31.917	3.000	YES	-	228.81	>20cm	>20cm	NO	-
LTE Band 66	24	251.189	16.25	20.623	3.000	YES	-	228.81	>20cm	>20cm	NO	-

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1.6 Triggering verification for power reduction

The device is a convertible laptop computer with WWAN/WLAN/BT feature.

Based on KDB inquiry, there are the hall sensors in the device, and the sensors can detect the operation mode transformation and then adjust the maximum power accordingly.

There are three hall sensors and corresponding hall sensor magnets in this device, and hall sensors on/off state will be decided based on the magnetic field change. When the hall sensor state change, there will be a sensor event notification/command happened then cause the corresponding WLAN TX power setting.

For the verification testing of power reduction mechanisms, the measured conducted output power is monitored qualitatively to identify the triggering characteristics and recorded quantitatively.

When the device is operated in the notebook mode / media mode, the power reduction will not be triggered, but when it is operating in the tablet mode, the power reduction will be triggered. Besides, the power reduction is a single fixed level of power reduction. (The power reduction is for WLAN only.)

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1.6.1 Results and conclusion

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

Verification Testing of Power for Notebook mode

Antenna	Operation mode	Lid angle	802.11b	802.11a 5.2G	802.11a 5.3G	802.11n(40M) 5.6G	802.11n(40M) 5.8G
Tx1	Lid close	0°	n/a	n/a	n/a	n/a	n/a
		10°	n/a	n/a	n/a	n/a	n/a
		20°	n/a	n/a	n/a	n/a	n/a
		30°	n/a	n/a	n/a	n/a	n/a
	NB mode	40°	19.97	18.92	18.96	16.89	16.32
		35°	19.98	18.99	18.95	16.95	16.38
		30°	n/a	n/a	n/a	n/a	n/a
		31°	n/a	n/a	n/a	n/a	n/a
	Lid close	32°	n/a	n/a	n/a	n/a	n/a
		33°	n/a	n/a	n/a	n/a	n/a
		34°	n/a	n/a	n/a	n/a	n/a
	NB mode	35°	19.95	18.85	18.83	16.98	16.40
		36°	19.82	18.83	18.84	16.92	16.44
		37°	19.97	18.89	18.84	16.89	16.38
		38°	19.97	18.83	18.98	16.91	16.50
		39°	20.00	18.95	18.82	16.97	16.43
		40°	19.86	18.96	18.89	16.81	16.41
		50°	19.88	18.94	18.89	16.83	16.32
		60°	19.89	18.87	18.90	16.92	16.39
		70°	19.87	18.87	18.95	16.95	16.31
		80°	19.83	18.87	18.81	16.85	16.47
		90°	19.89	19.00	18.93	16.88	16.48
		100°	19.93	18.94	18.90	16.99	16.44
		110°	19.98	18.87	18.88	16.91	16.36
		120°	19.87	18.85	18.99	16.82	16.46
		130°	20.00	18.86	18.82	16.97	16.38
		135°	19.89	18.82	18.93	16.87	16.47
	NB mode	135°	19.99	18.92	18.97	16.86	16.50
		125°	19.82	18.81	18.82	16.93	16.47
		115°	19.85	18.96	18.82	16.98	16.38
		105°	19.92	18.82	18.96	16.90	16.37
		95°	19.82	18.85	18.91	16.99	16.49
		85°	19.87	18.88	18.81	16.99	16.36
		75°	19.98	18.81	18.87	16.98	16.49
		65°	19.99	18.90	18.92	16.84	16.38
		55°	19.92	18.89	18.81	16.94	16.50
		45°	19.93	18.96	18.86	16.95	16.48
		35°	19.94	18.89	18.86	16.91	16.38
	Lid close	25°	n/a	n/a	n/a	n/a	n/a
		30°	n/a	n/a	n/a	n/a	n/a
	NB mode	35°	19.82	18.82	18.98	16.85	16.42
		34°	n/a	n/a	n/a	n/a	n/a
	Lid close	33°	n/a	n/a	n/a	n/a	n/a
		32°	n/a	n/a	n/a	n/a	n/a
		31°	n/a	n/a	n/a	n/a	n/a
		30°	n/a	n/a	n/a	n/a	n/a
		20°	n/a	n/a	n/a	n/a	n/a
		10°	n/a	n/a	n/a	n/a	n/a
	Lid close	0°	n/a	n/a	n/a	n/a	n/a

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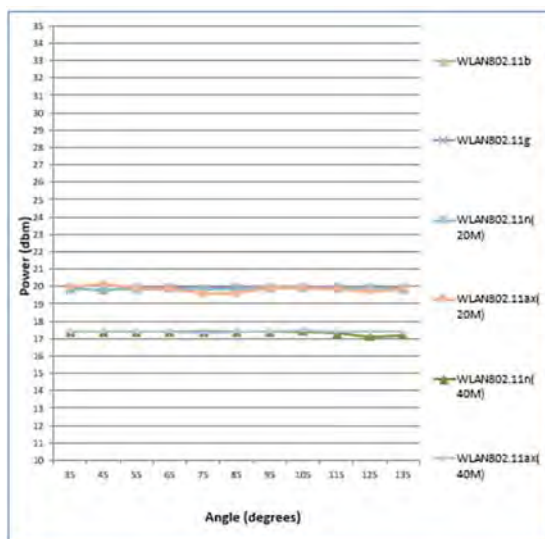
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Antenna	Operation mode	Lid angle	802.11b	802.11a 5.2G	802.11n(40M) 5.3G	802.11n(40M) 5.6G	802.11n(40M) 5.8G
Tx2	Lid close	0°	n/a	n/a	n/a	n/a	n/a
		10°	n/a	n/a	n/a	n/a	n/a
		20°	n/a	n/a	n/a	n/a	n/a
		30°	n/a	n/a	n/a	n/a	n/a
	NB mode	40°	18.81	18.39	17.96	16.95	16.83
		35°	18.96	18.33	17.94	16.83	17.00
		30°	n/a	n/a	n/a	n/a	n/a
		31°	n/a	n/a	n/a	n/a	n/a
	Lid close	32°	n/a	n/a	n/a	n/a	n/a
		33°	n/a	n/a	n/a	n/a	n/a
		34°	n/a	n/a	n/a	n/a	n/a
		35°	18.90	18.34	17.97	16.97	16.93
	NB mode	36°	18.87	18.45	17.90	16.94	16.97
		37°	18.89	18.34	17.91	16.99	16.85
		38°	18.93	18.46	17.81	16.86	16.85
		39°	18.94	18.39	17.82	16.87	16.82
		40°	18.88	18.49	18.00	16.85	16.97
		50°	18.93	18.48	17.85	16.92	17.00
		60°	18.93	18.50	17.82	16.84	16.86
		70°	18.92	18.41	17.82	16.85	16.95
		80°	18.81	18.41	17.85	16.91	16.85
		90°	18.97	18.40	17.85	16.96	16.97
		100°	18.98	18.44	17.97	16.92	16.99
		110°	18.92	18.33	17.99	16.88	16.89
		120°	18.86	18.36	17.81	16.85	16.96
		130°	18.91	18.31	17.87	16.95	16.89
		135°	18.81	18.39	17.83	16.86	17.00
	NB mode	135°	18.90	18.44	17.86	16.95	16.95
		125°	18.82	18.33	17.93	16.91	16.88
		115°	18.81	18.37	17.84	16.83	16.95
		105°	18.94	18.31	17.92	16.97	16.83
		95°	18.96	18.40	17.90	16.86	16.95
		85°	18.98	18.36	17.82	16.99	16.85
		75°	18.87	18.34	17.88	16.86	16.88
		65°	18.82	18.32	17.91	16.97	17.00
		55°	18.85	18.32	17.96	16.84	16.99
		45°	18.92	18.33	17.86	16.84	16.89
		35°	18.95	18.44	17.99	16.88	16.95
	Lid close	25°	n/a	n/a	n/a	n/a	n/a
		30°	n/a	n/a	n/a	n/a	n/a
	NB mode	35°	18.95	18.33	17.98	16.87	16.89
		34°	n/a	n/a	n/a	n/a	n/a
	Lid close	33°	n/a	n/a	n/a	n/a	n/a
		32°	n/a	n/a	n/a	n/a	n/a
		31°	n/a	n/a	n/a	n/a	n/a
		30°	n/a	n/a	n/a	n/a	n/a
		20°	n/a	n/a	n/a	n/a	n/a
		10°	n/a	n/a	n/a	n/a	n/a
		0°	n/a	n/a	n/a	n/a	n/a

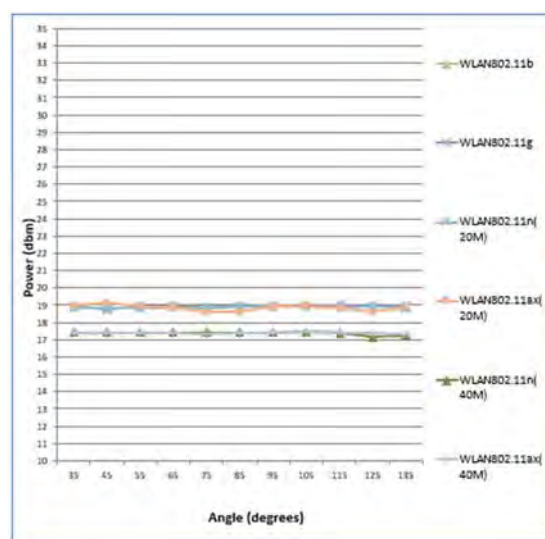
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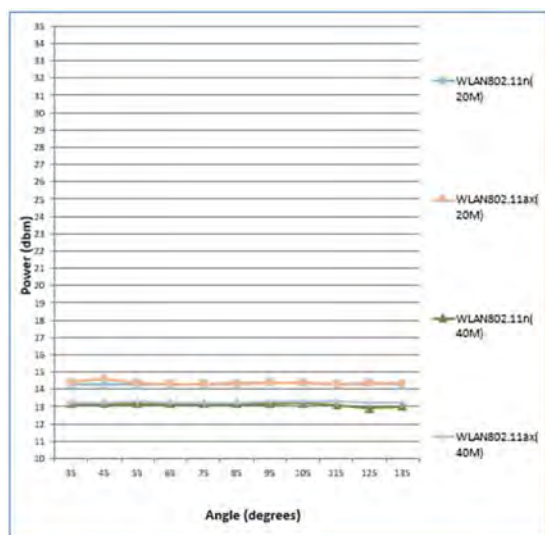
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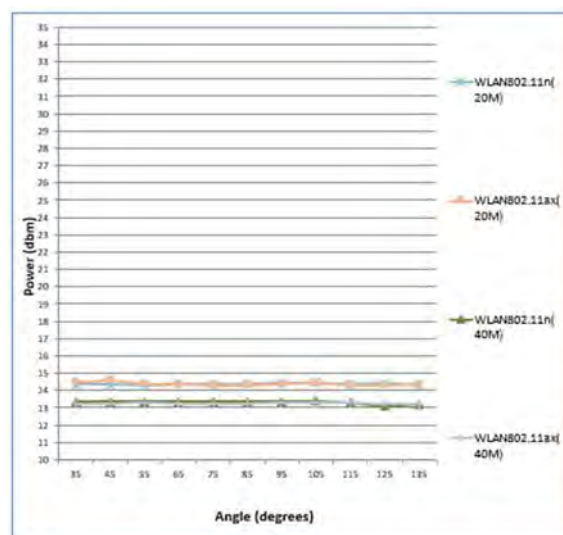
2.4GHz Tx1(SISO)



2.4GHz Tx2(SISO)



2.4GHz Tx1(MIMO)

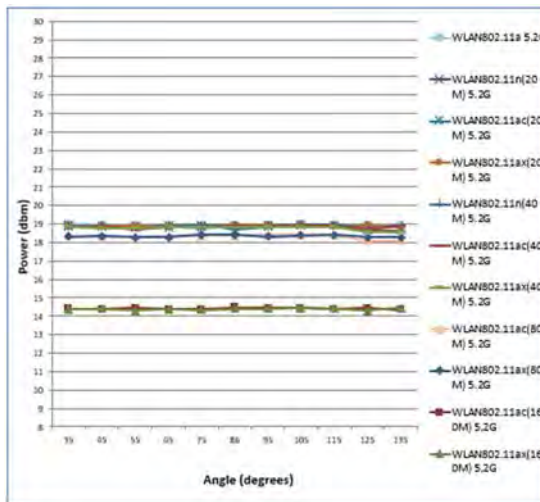


2.4GHz Tx2(MIMO)

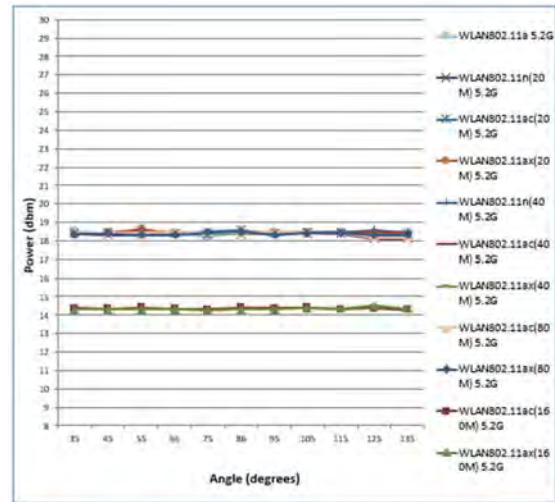
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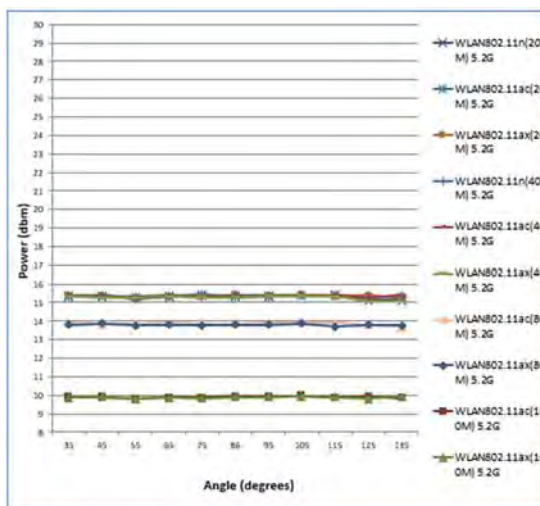
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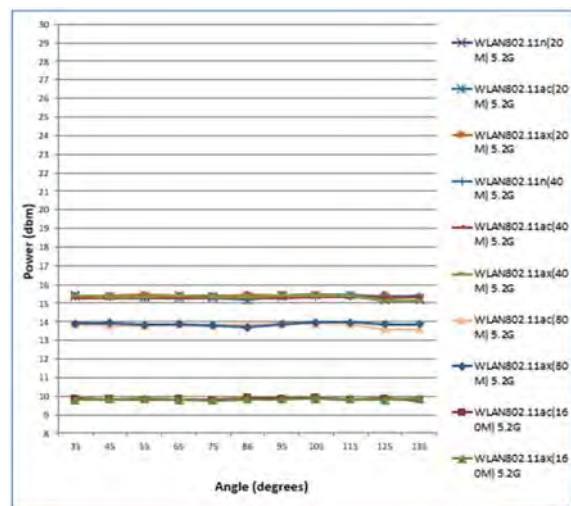
5.2GHz Tx1(SISO)



5.2GHz Tx2(SISO)



5.2GHz Tx1(MIMO)

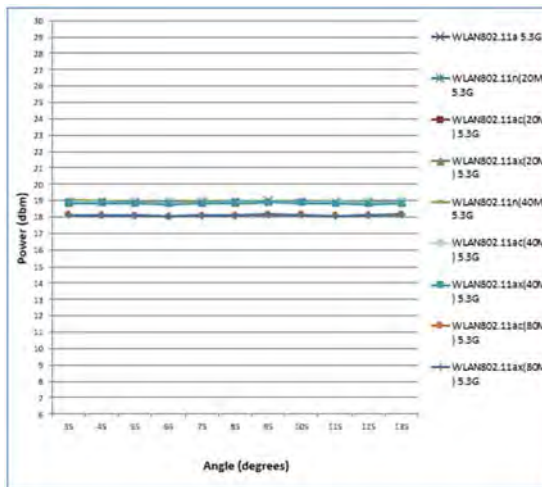


5.2GHz Tx2(MIMO)

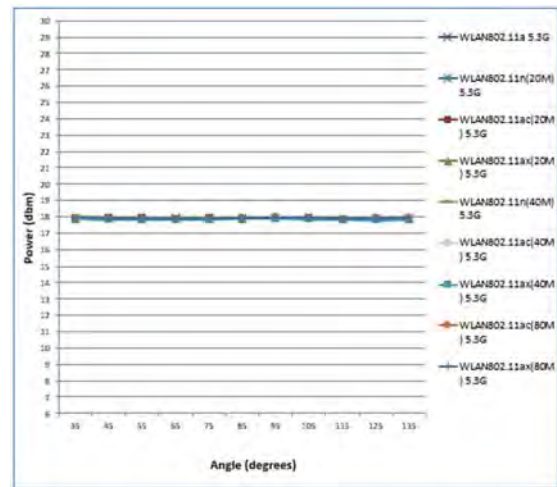
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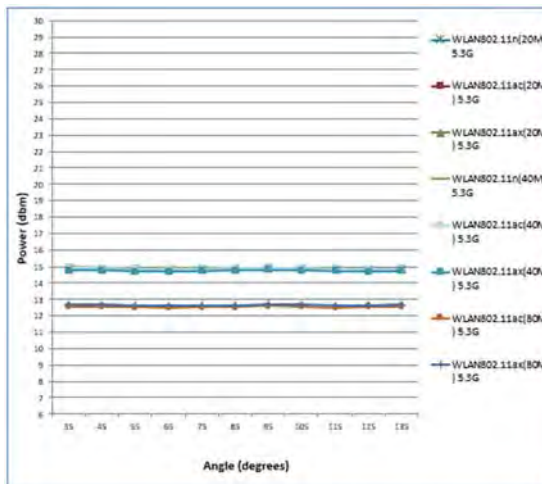
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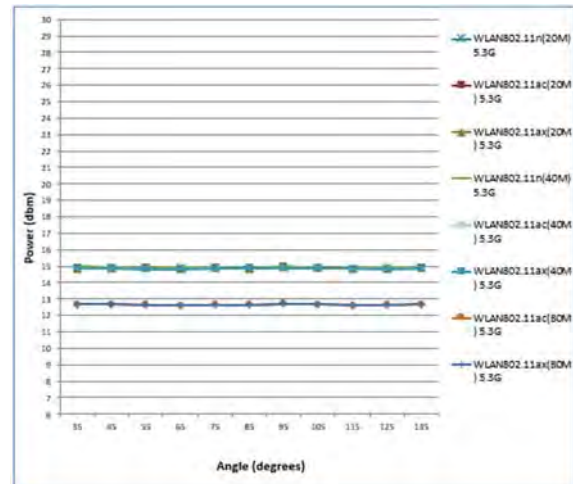
5.3GHz Tx1(SISO)



5.3GHz Tx2(SISO)



5.3GHz Tx1(MIMO)

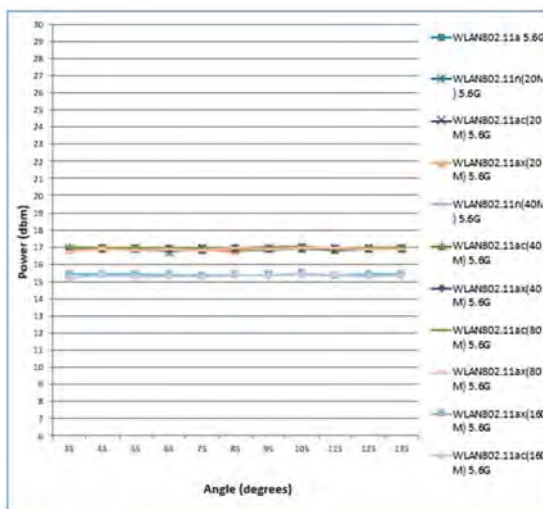


5.3GHz Tx2(MIMO)

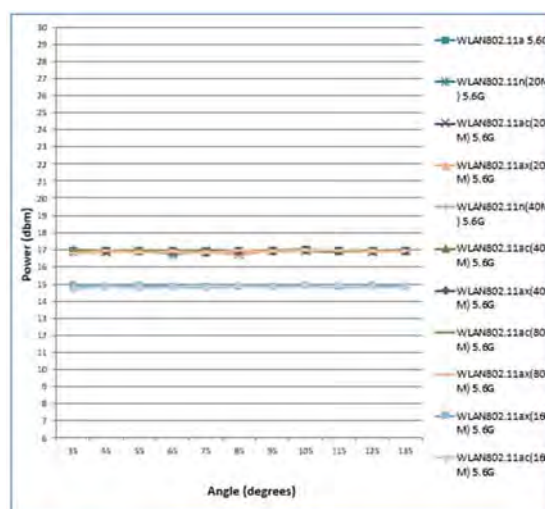
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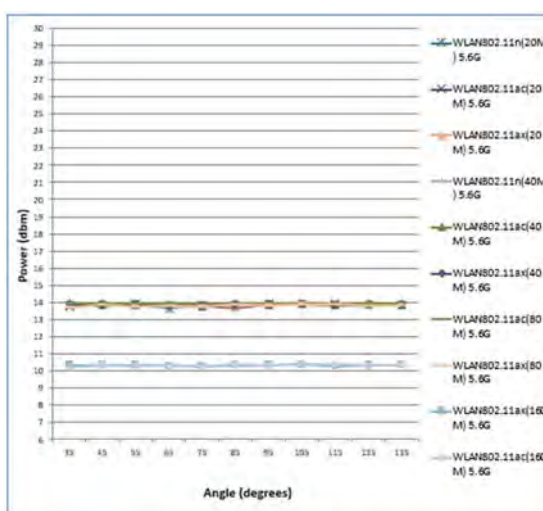
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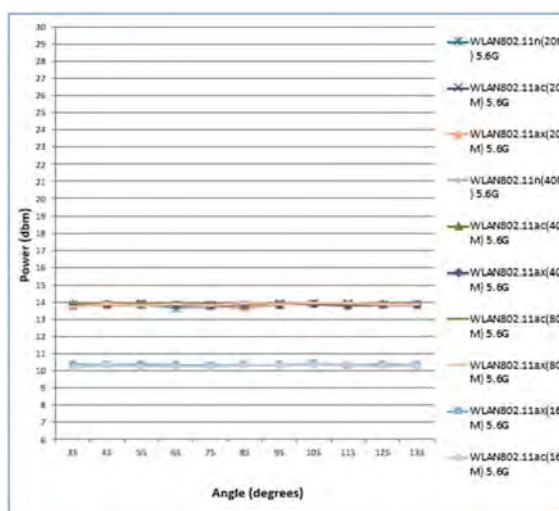
5.6GHz Tx1(SISO)



5.6GHz Tx2(SISO)



5.6GHz Tx1(MIMO)

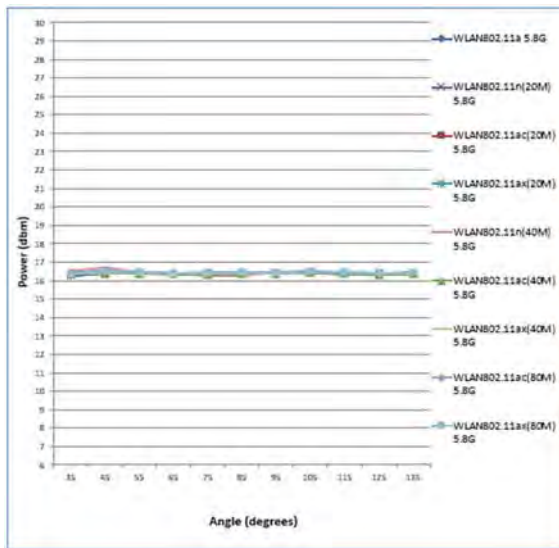


5.6GHz Tx2(MIMO)

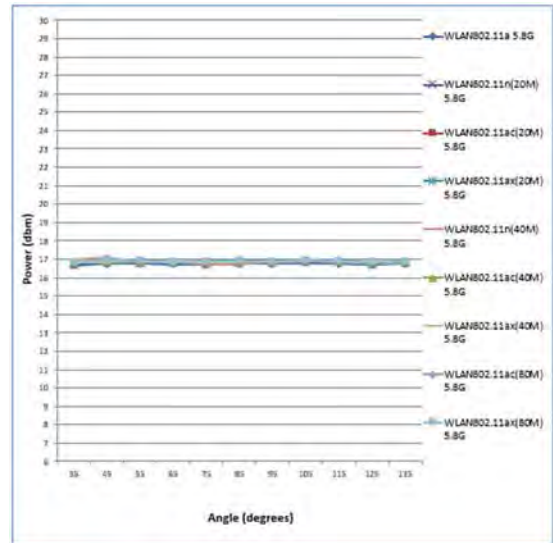
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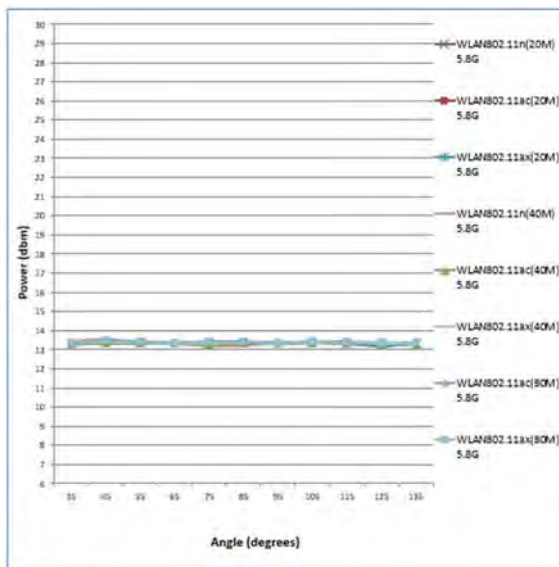
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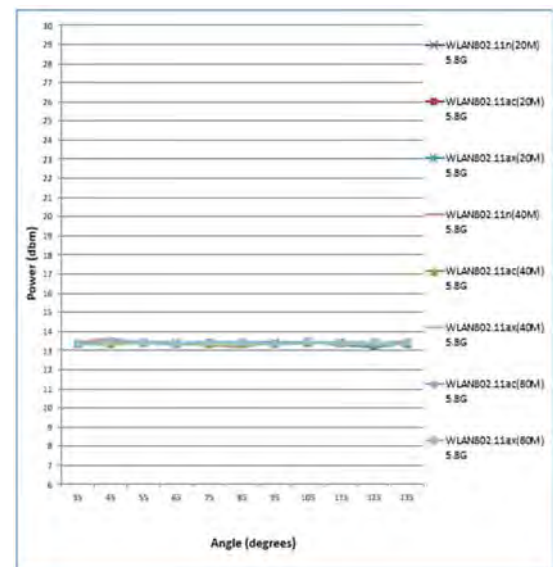
5.8GHz Tx1(SISO)



5.8GHz Tx2(SISO)



5.8GHz Tx1(MIMO)



5.8GHz Tx2(MIMO)

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Verification Testing of Power for Media mode and Tablet mode

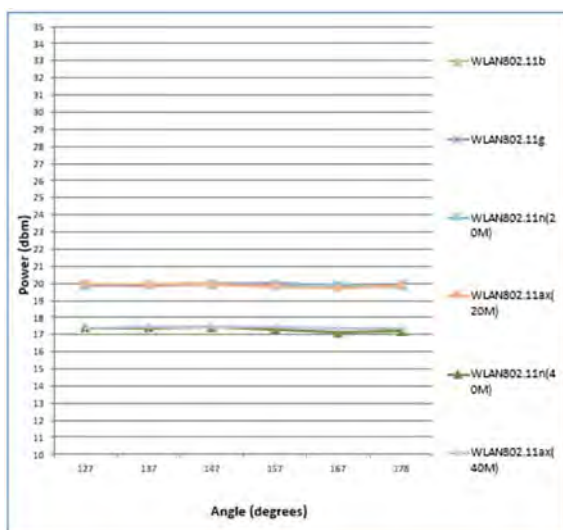
Antenna	Operation mode	Lid angle	802.11b	802.11a 5.2G	802.11a 5.3G	802.11n(40M) 5.6G	802.11n(40M) 5.8G
Tx1	Media mode	127°	19.96	18.89	18.91	16.88	16.36
		137°	19.81	18.92	18.91	16.81	16.44
		147°	19.84	18.87	18.98	16.90	16.34
		157°	19.86	18.96	18.95	16.86	16.34
		167°	19.99	18.89	18.90	16.85	16.45
		177°	19.88	18.86	18.91	16.96	16.34
	Tablet mode	178°	19.99	14.85	14.96	13.40	12.94
		173°	19.98	19.00	18.94	16.92	16.34
	Media mode	174°	19.90	18.91	18.90	16.85	16.43
		175°	19.94	18.83	18.94	16.98	16.35
		176°	19.81	18.83	18.81	16.90	16.39
		177°	19.92	18.99	18.84	17.00	16.31
		178°	19.97	14.93	14.90	13.34	12.92
	Media mode	168°	19.99	18.97	18.96	16.99	16.50
		173°	19.95	18.92	18.88	16.85	16.40
	Tablet mode	178°	19.84	14.85	14.96	13.35	12.91
		177°	19.97	18.92	18.90	16.88	16.35
	Media mode	176°	19.89	18.81	18.92	16.96	16.50
		175°	19.99	18.93	18.90	16.94	16.32
		174°	19.99	18.81	18.96	16.88	16.36
		173°	19.93	18.85	18.82	16.82	16.50
		163°	19.97	18.82	18.92	17.00	16.35
		153°	19.85	18.88	18.84	16.95	16.42
		143°	19.97	18.86	18.85	16.98	16.35
		133°	19.90	18.94	18.91	17.00	16.48
		127°	19.88	18.86	18.96	16.87	16.43

Antenna	Operation mode	Lid angle	802.11b	802.11a 5.2G	802.11n(40M) 5.3G	802.11n(40M) 5.6G	802.11n(40M) 5.8G
Tx2	Media mode	127°	18.84	18.41	18.00	16.84	16.82
		137°	18.89	18.48	17.99	17.00	16.84
		147°	18.95	18.40	17.88	16.91	16.89
		157°	18.81	18.50	17.87	17.00	16.81
		167°	18.98	18.45	17.90	16.94	16.94
		177°	18.92	18.33	17.95	17.00	16.96
	Tablet mode	178°	17.84	13.92	13.35	13.34	15.48
		173°	18.99	18.37	18.00	16.87	16.95
	Media mode	174°	18.85	18.36	17.82	16.83	16.85
		175°	18.98	18.41	17.94	16.85	16.90
		176°	18.85	18.50	17.89	16.91	16.89
		177°	18.90	18.45	17.90	16.82	16.97
		178°	18.00	13.93	13.49	13.45	15.31
	Media mode	168°	18.97	18.47	17.96	16.90	16.82
		173°	18.84	18.34	17.94	16.94	16.89
	Tablet mode	178°	17.99	14.00	13.50	13.38	15.40
		177°	18.94	18.46	17.96	16.93	16.92
	Media mode	176°	18.90	18.45	17.84	16.98	16.87
		175°	18.85	18.46	17.94	16.96	16.95
		174°	18.90	18.46	17.98	16.86	16.93
		173°	18.85	18.33	17.96	16.82	16.98
		163°	18.93	18.49	17.84	16.92	16.84
		153°	18.88	18.46	17.97	16.92	16.89
		143°	18.81	18.38	17.88	16.95	16.90
		133°	18.95	18.42	17.93	16.98	16.97
		127°	18.94	18.43	18.00	16.94	16.96

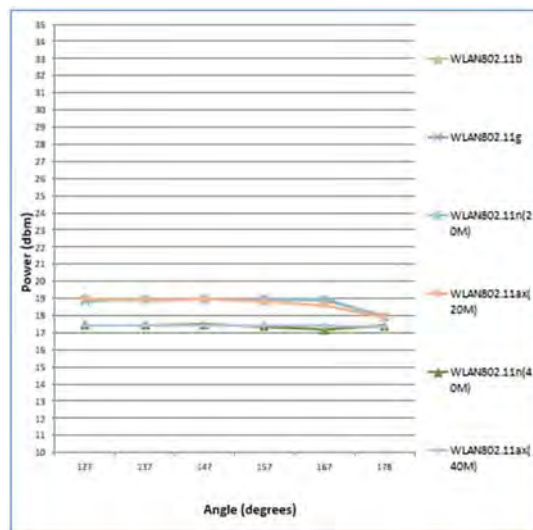
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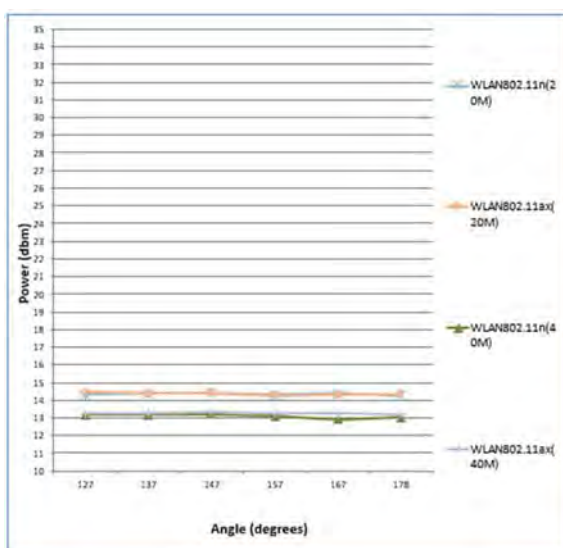
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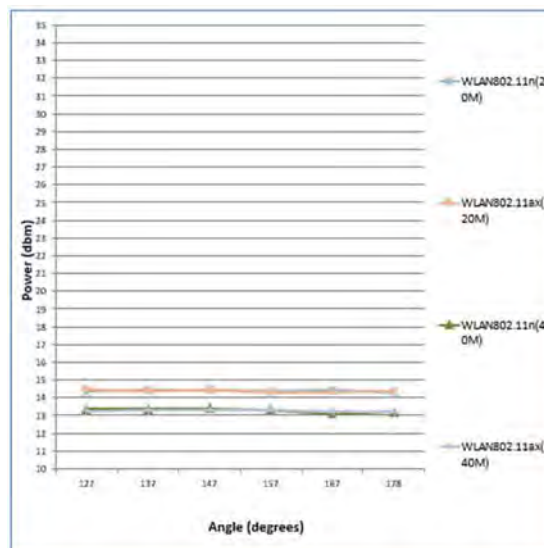
2.4GHz Tx1(SISO)



2.4GHz Tx2(SISO)



2.4GHz Tx1(MIMO)

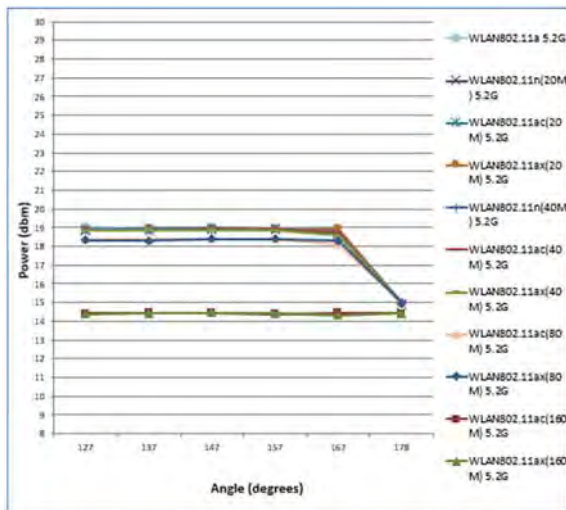


2.4GHz Tx2(MIMO)

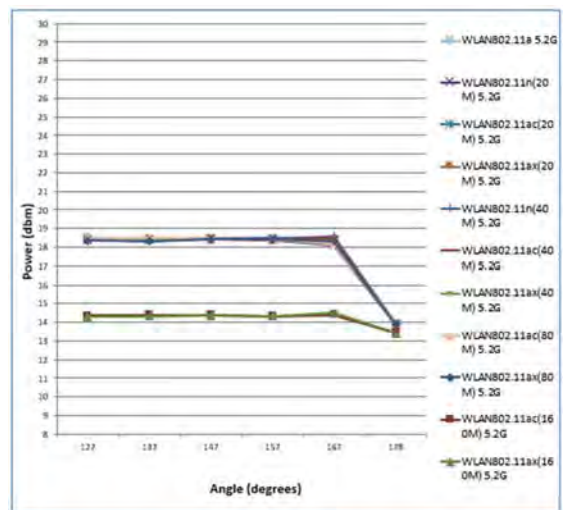
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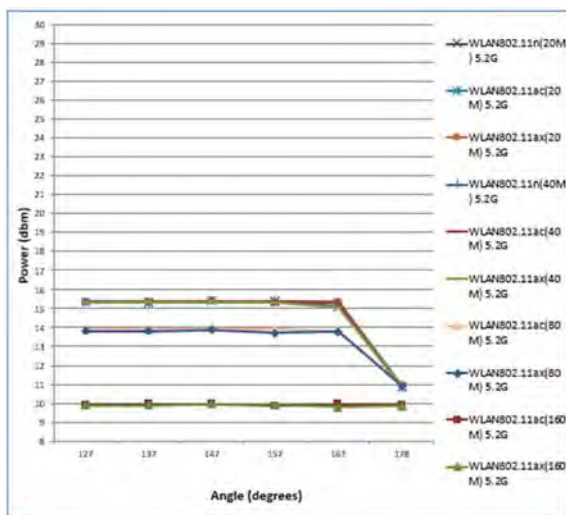
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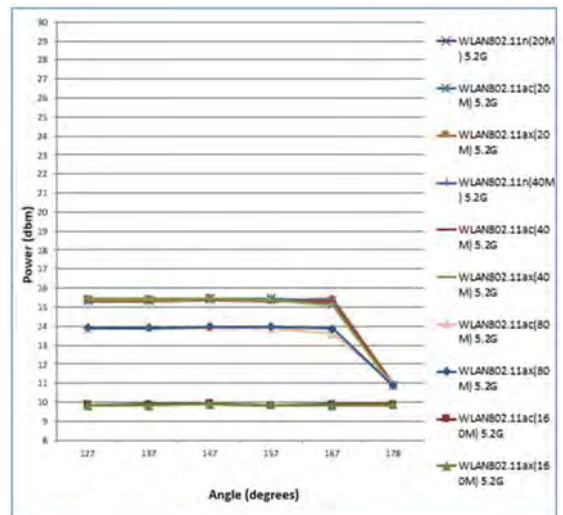
5.2GHz Tx1(SISO)



5.2GHz Tx2(SISO)



5.2GHz Tx1(MIMO)

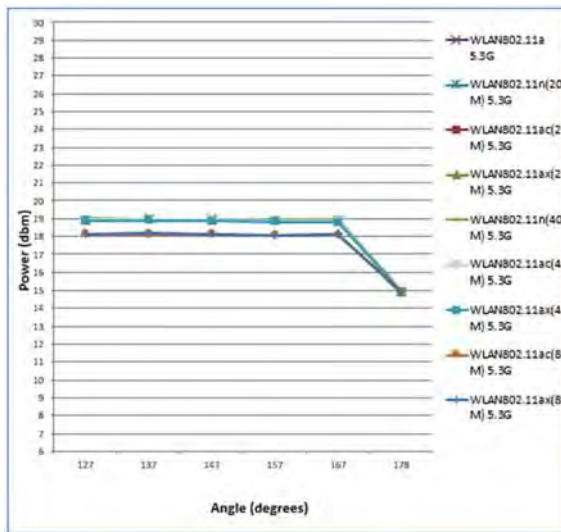


5.2GHz Tx2(MIMO)

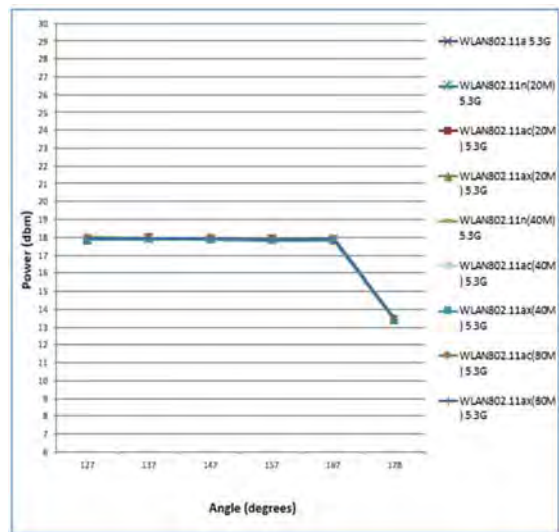
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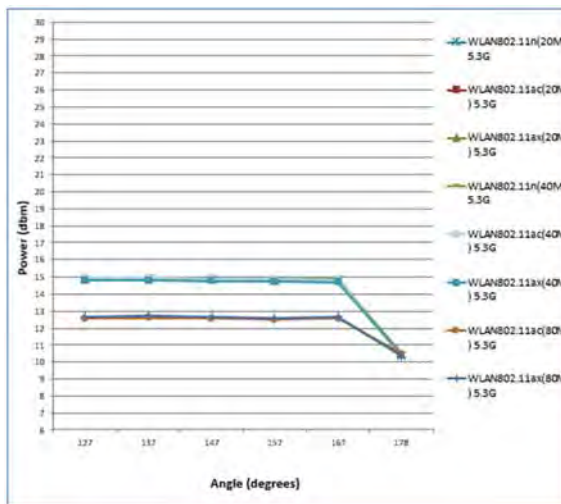
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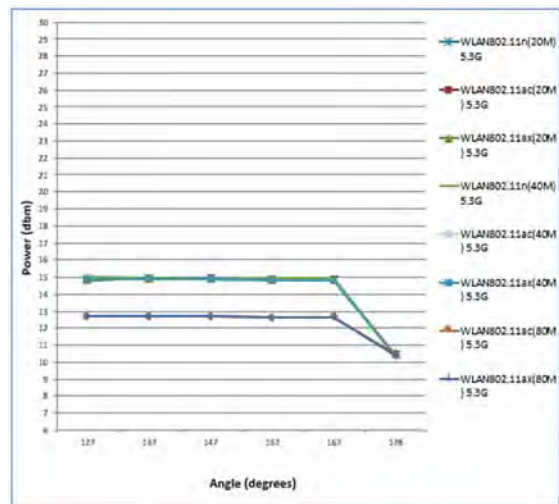
5.3GHz Tx1(SISO)



5.3GHz Tx2(SISO)



5.3GHz Tx1(MIMO)

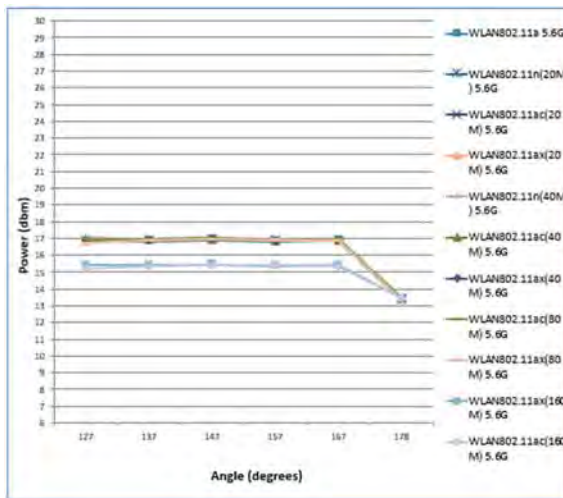


5.3GHz Tx2(MIMO)

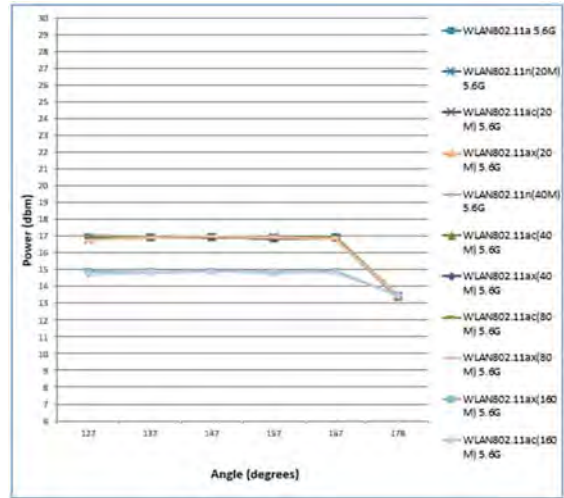
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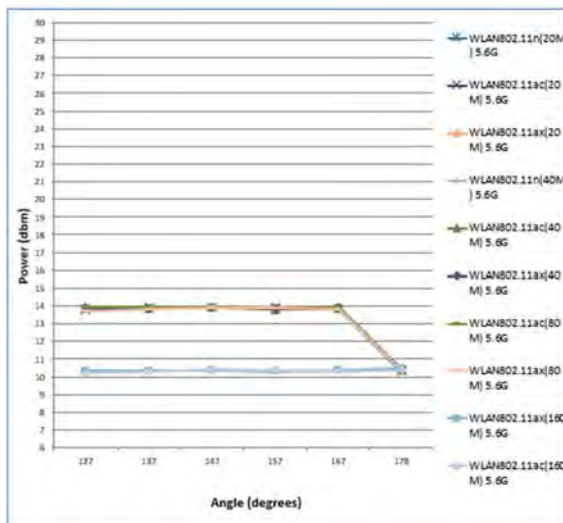
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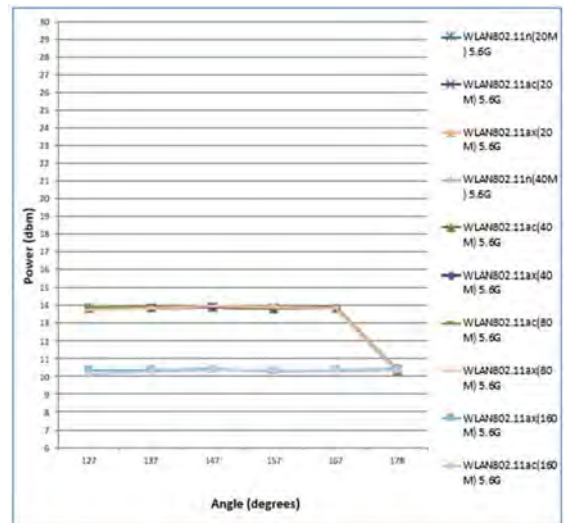
5.6GHz Tx1(SISO)



5.6GHz Tx2(SISO)



5.6GHz Tx1(MIMO)

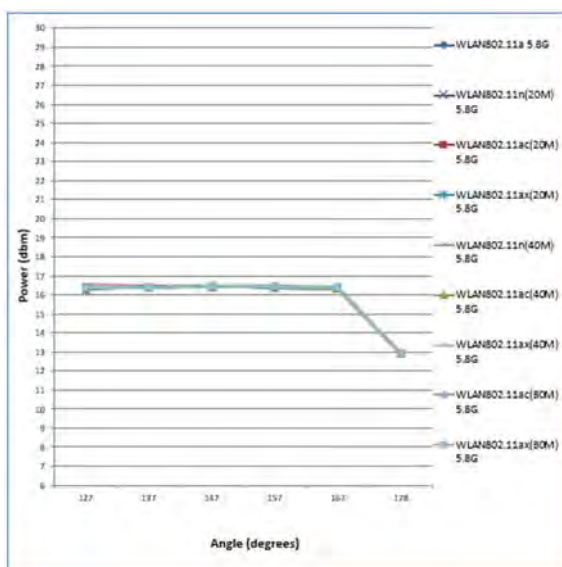


5.6GHz Tx2(MIMO)

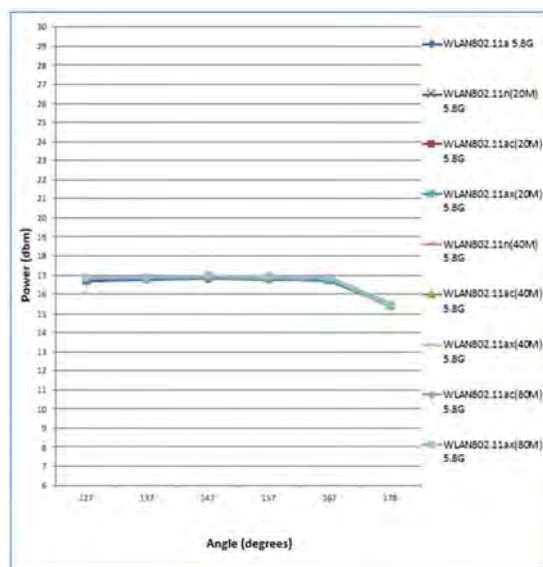
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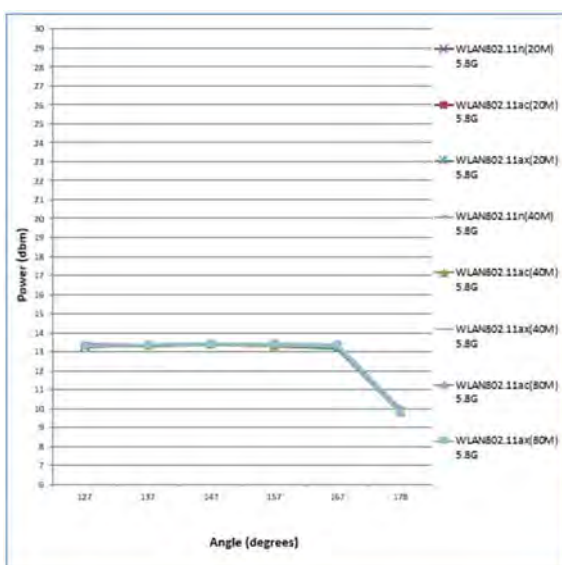
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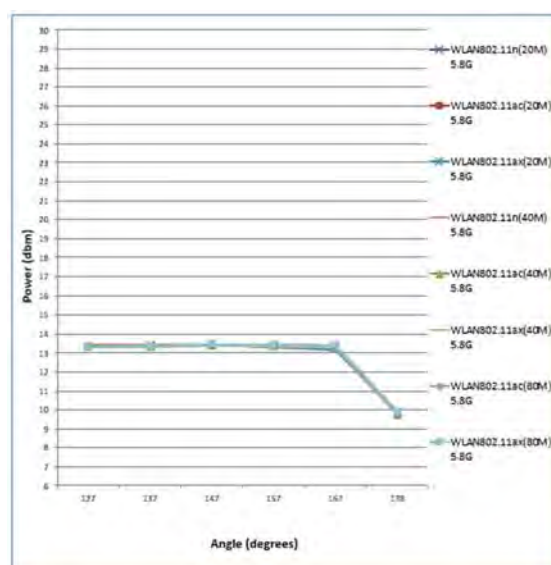
5.8GHz Tx1(SISO)



5.8GHz Tx2(SISO)



5.8GHz Tx1 (MIMO)



5.8GHz Tx2(MIMO)

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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 $SAR = \sigma (|E|^2) / \rho$ where σ and ρ are the conductivity and mass density of the tissue-simulant.

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

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

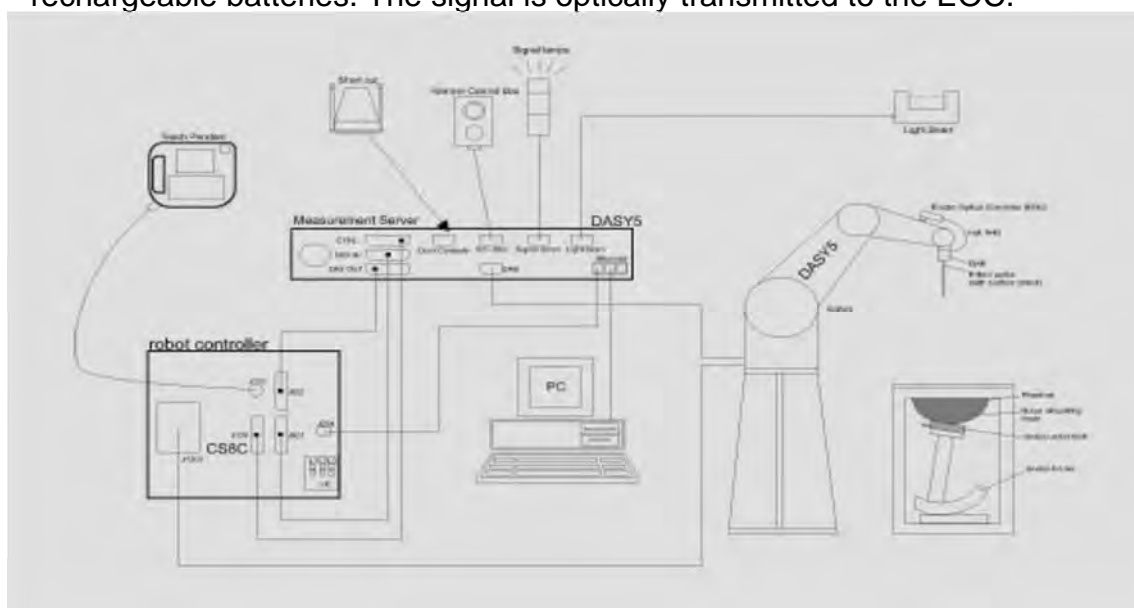


Fig. a The block diagram of SAR system

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


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1.8 System Components


EX3DV4 E-Field Probe

Construction	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)	
Calibration	Basic Broad Band Calibration in air Conversion Factors (CF) for HSL 750/835/1750/1900/2300/2450/2600/5200/5300/5600/5800 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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PHANTOM

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

DEVICE HOLDER

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

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1.9 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 $\pm 10\%$ from the target SAR values. These tests were done at 750/835/1750/1900/2300/2450/2600/5200/5300/5600/5800 MHz. The tests were conducted on the same days as the measurement of the DUT. The obtained results from the system accuracy verification are displayed in the table 1 (SAR values are normalized to 1W forward power delivered to the dipole). During the tests, the liquid depth above the ear reference points was $\geq 15 \text{ cm} \pm 5 \text{ mm}$ (frequency $\leq 3 \text{ GHz}$) or $\geq 10 \text{ cm} \pm 5 \text{ mm}$ (frequency $> 3 \text{ GHz}$) in all the cases. It is seen that the system is operating within its specification, as the results are within acceptable tolerance of the reference values.

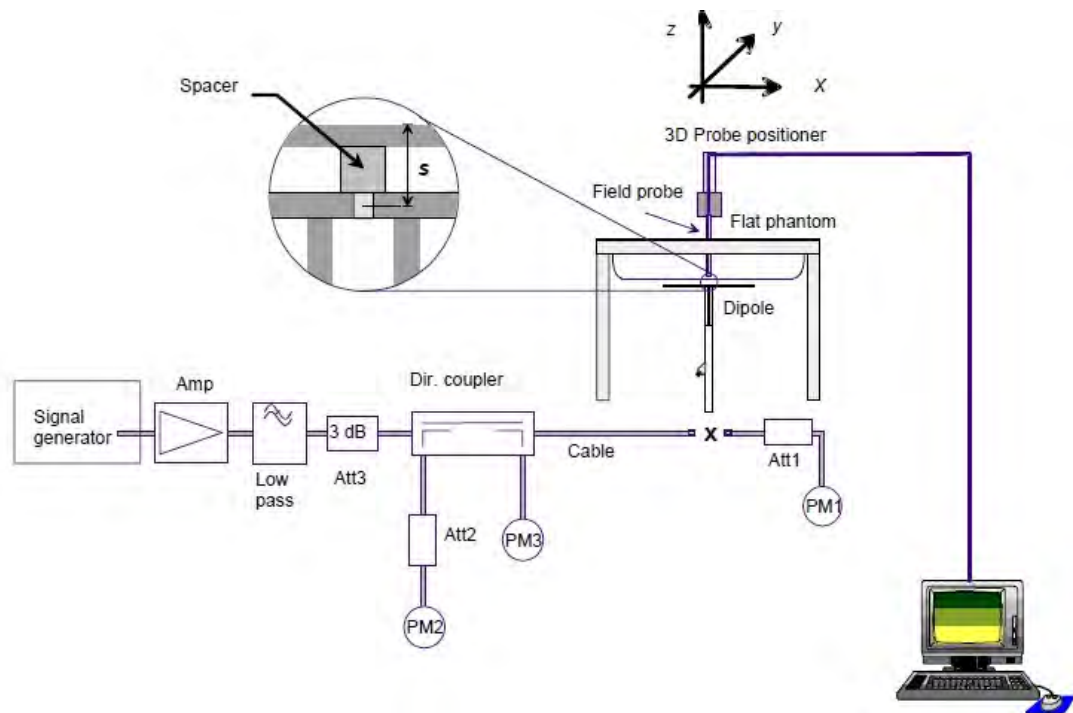


Fig. b The block diagram of system verification

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Validation Kit	S/N	Frequency (MHz)		1W Target SAR-1g (mW/g)	pin=250mW Measured SAR-1g (mW/g)	Measured SAR-1g normalized to 1W (mW/g)	Deviation (%)	Measured Date
D750V3	1015	750	Head	8.6	2.13	8.52	-0.93%	Dec, 17, 2019
D835V2	4d063	835	Head	9.57	2.35	9.40	-1.78%	Dec, 17, 2019
D1750V2	1008	1750	Head	36.8	8.76	35.04	-4.78%	Dec, 18, 2019
D1900V2	5d173	1900	Head	40.2	9.49	37.96	-5.57%	Dec, 18, 2019
D2300V2	1023	2300	Head	48.1	11.70	46.80	-2.70%	Dec, 19, 2019
D2450V2	727	2450	Head	53	14.10	56.40	6.42%	Dec, 12, 2019
D2600V2	1005	2600	Head	55.3	14.10	56.40	1.99%	Dec, 19, 2019
Validation Kit	S/N	Frequency (MHz)		1W Target SAR-1g (mW/g)	Pin=100mW Measured SAR-1g (mW/g)	Measured SAR-1g normalized to 1W (mW/g)	Deviation (%)	Measured Date
D5GHzV2	1023	5200	Head	79.2	8.06	80.6	1.77%	Dec, 13, 2019
		5300	Head	82.6	8.38	83.8	1.45%	Dec, 14, 2019
		5600	Head	85.7	8.31	83.1	-3.03%	Dec, 15, 2019
		5800	Head	80.4	8.13	81.3	1.12%	Dec, 16, 2019

Table 1. Results of system verification

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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 Dielectric 85070E Probe Kit in conjunction with Network Analyzer. All dielectric parameters of tissue simulates were measured within 24 hours of SAR measurements. The measured conductivity and permittivity are all within $\pm 5\%$ of the target values.

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

Tissue Type	Measurement Date	Measured Frequency (MHz)	Target Dielectric Constant, ϵ_r	Target Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ_r	Measured Conductivity, σ (S/m)	% dev ϵ_r	% dev σ
Head	Dec, 17. 2019	704	42.181	0.890	43.468	0.859	3.05%	-3.46%
		707.5	42.162	0.890	43.451	0.863	3.06%	-3.04%
		709	42.155	0.890	43.408	0.865	2.97%	-2.83%
		710	42.149	0.890	43.387	0.867	2.94%	-2.61%
		711	42.144	0.890	43.343	0.867	2.84%	-2.62%
		750	41.942	0.893	42.902	0.916	2.29%	2.53%
		782	41.775	0.896	42.545	0.921	1.84%	2.81%
		793	41.718	0.897	42.342	0.932	1.50%	3.93%
		821.5	41.570	0.899	43.024	0.873	3.50%	-2.89%
		826.4	41.545	0.899	42.906	0.878	3.28%	-2.37%
		829	41.531	0.900	42.896	0.879	3.29%	-2.28%
		831.5	41.518	0.900	42.884	0.881	3.29%	-2.08%
		835	41.500	0.900	42.881	0.887	3.33%	-1.44%
		836.5	41.500	0.902	42.799	0.888	3.13%	-1.51%
		836.6	41.500	0.902	42.798	0.888	3.13%	-1.52%
		841.5	41.500	0.907	42.783	0.895	3.09%	-1.32%
		844	41.500	0.910	42.751	0.896	3.01%	-1.51%
		846.6	41.500	0.912	42.732	0.897	2.97%	-1.70%
	Dec, 18. 2019	1712.4	40.138	1.349	39.584	1.291	-1.38%	-4.32%
		1720	40.126	1.354	39.538	1.295	-1.47%	-4.34%
		1732.4	40.107	1.361	39.491	1.303	-1.54%	-4.25%
		1732.5	40.107	1.361	39.484	1.306	-1.55%	-4.04%
		1745	40.087	1.368	39.456	1.315	-1.57%	-3.89%
		1750	40.079	1.371	39.443	1.319	-1.59%	-3.80%
		1752.6	40.075	1.373	39.436	1.322	-1.59%	-3.68%
		1770	40.047	1.383	39.357	1.341	-1.72%	-3.01%
		1852.4	40.000	1.400	39.253	1.409	-1.87%	0.64%
		1860	40.000	1.400	39.072	1.415	-2.32%	1.07%
		1880	40.000	1.400	38.982	1.432	-2.55%	2.29%
		1882.5	40.000	1.400	38.978	1.434	-2.56%	2.43%
		1900	40.000	1.400	38.929	1.451	-2.68%	3.64%
		1905	40.000	1.400	38.895	1.459	-2.76%	4.21%
		1907.6	40.000	1.400	38.878	1.461	-2.81%	4.36%

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Tissue Type	Measurement Date	Measured Frequency (MHz)	Target Dielectric Constant, ϵ_r	Target Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ_r	Measured Conductivity, σ (S/m)	% dev ϵ_r	% dev σ
Head	Dec, 19. 2019	2300	39.467	1.667	40.565	1.651	2.78%	-0.94%
		2310	39.449	1.676	40.506	1.661	2.68%	-0.87%
		2506	39.129	1.861	37.923	1.849	-3.08%	-0.65%
		2510	39.124	1.865	37.903	1.856	-3.12%	-0.51%
		2535	39.092	1.893	37.791	1.875	-3.33%	-0.94%
		2549.5	39.073	1.909	37.722	1.895	-3.46%	-0.71%
		2560	39.060	1.920	37.693	1.907	-3.50%	-0.68%
		2580	39.035	1.942	37.617	1.928	-3.63%	-0.71%
		2593	39.018	1.956	37.557	1.944	-3.74%	-0.61%
		2595	39.015	1.958	37.544	1.947	-3.77%	-0.57%
		2600	39.009	1.964	37.527	1.949	-3.80%	-0.75%
		2610	38.996	1.975	37.454	1.963	-3.96%	-0.58%
		2636.5	38.963	2.003	37.339	1.995	-4.17%	-0.42%
		2680	38.907	2.051	37.203	2.044	-4.38%	-0.34%
Tissue Type	Measurement Date	Measured Frequency (MHz)	Target Dielectric Constant, ϵ_r	Target Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ_r	Measured Conductivity, σ (S/m)	% dev ϵ_r	% dev σ
Head	Dec, 12. 2019	2402	39.285	1.757	37.858	1.798	-3.63%	2.31%
		2412	39.268	1.766	37.770	1.812	-3.81%	2.59%
		2417	39.259	1.771	37.706	1.820	-3.95%	2.79%
		2437	39.223	1.788	37.656	1.848	-4.00%	3.33%
		2441	39.216	1.792	37.636	1.853	-4.03%	3.40%
		2450	39.200	1.800	37.619	1.863	-4.03%	3.50%
		2457	39.191	1.808	37.611	1.871	-4.03%	3.51%
		2462	39.185	1.813	37.596	1.878	-4.05%	3.58%
	Dec, 13. 2019	2480	39.162	1.833	37.589	1.897	-4.02%	3.51%
		5190	35.997	4.645	36.614	4.509	1.71%	-2.92%
		5200	35.986	4.655	36.599	4.513	1.70%	-3.05%
		5210	35.974	4.665	36.479	4.517	1.40%	-3.18%
	Dec, 14. 2019	5230	35.951	4.686	36.332	4.519	1.06%	-3.56%
		5270	35.906	4.727	36.229	4.621	0.90%	-2.24%
		5290	35.883	4.747	36.221	4.631	0.94%	-2.45%
		5300	35.871	4.758	36.214	4.635	0.95%	-2.57%
	Dec, 15. 2019	5310	35.860	4.768	36.207	4.637	0.97%	-2.74%
		5530	35.609	4.993	35.534	4.901	-0.21%	-1.85%
		5570	35.563	5.034	35.153	4.928	-1.15%	-2.11%
		5600	35.529	5.065	35.105	5.003	-1.19%	-1.22%
		5610	35.517	5.075	35.096	5.033	-1.19%	-0.83%
	Dec, 16. 2019	5690	35.426	5.157	34.729	5.086	-1.97%	-1.38%
		5775	35.329	5.244	34.621	5.159	-2.00%	-1.63%
		5800	35.300	5.270	34.367	5.195	-2.64%	-1.42%

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	Head	—	532.98 g	18.3 g	2.4 g	3.2 g	766 g	1.3L(Kg)
850	Head	—	532.98 g	18.3 g	2.4 g	3.2 g	766 g	1.3L(Kg)
1750	Head	444.52 g	552.42 g	3.06 g	—	—	—	1.0L(Kg)
1900	Head	444.52 g	552.42 g	3.06 g	—	—	—	1.0L(Kg)
2300	Head	550ml	450ml	—	—	—	—	1.0L(Kg)
2450	Head	550ml	450ml	—	—	—	—	1.0L(Kg)
2600	Head	550ml	450ml	—	—	—	—	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 between the lowest measured plane and the surface. The next step uses 3D

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

1.12 Probe Calibration Procedures

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

1.12.1 Transfer Calibration with Temperature Probes

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

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

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

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

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- The temperature gradient is not directly measurable but must be evaluated from temperature measurements at different time steps. Special precaution is necessary to avoid measurement errors caused by temperature gradients due to energy equalizing effects or convection currents in the liquid. Such effects cannot be completely avoided, as the measured field itself destroys the thermal equilibrium in the liquid. With a careful setup these errors can be kept small.
- The measured volume around the temperature probe is not well defined. It is difficult to calculate the energy transfer from a surrounding gradient temperature field into the probe. These effects must be considered, since temperature probes are calibrated in liquid with homogeneous temperatures. There is no traceable standard for temperature rise measurements.
- The calibration depends on the assessment of the specific density, the heat capacity and the conductivity of the medium. While the specific density and heat capacity can be measured accurately with standardized procedures ($\sim 2\%$ for c ; much better for ρ), there is no standard for the measurement of the conductivity. Depending on the method and liquid, the error can well exceed $\pm 5\%$.
- 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 $\pm 10\%$ (RSS) [2]. Recently, a setup which is a combination of the waveguide techniques and the thermal measurements was presented in [3]. The estimated uncertainty of the setup is $\pm 5\%$ (RSS) when the same liquid is used for the calibration and for actual measurements and $\pm 7-9\%$ (RSS) when not, which is in good agreement with the estimates given in [2].

1.12.2 Calibration with Analytical Fields

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

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

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

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

References

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3. K. Jokela, P. Hyysalo, and L. Puranen, "Calibration of specific absorption rate (SAR) probes in waveguide at 900 MHz", *IEEE Transactions on Instrumentation and Measurements*, vol. 47, no. 2, pp. 432-438, Apr. 1998.

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1.13 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).

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- (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.)

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

Table 4. RF exposure limits

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Notes:

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

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2. Summary of Results

2.1 Decision rules

Reported measurement data comply with IEEE 1528-2013:

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

2.2 Summary of Results

WCDMA Band II

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	
WCDMA Band II	Back side	0	9400	1880	24.50	23.53	125.03%	0.021	0.026	-
	Top side	0	9400	1880	24.50	23.53	125.03%	0.084	0.105	-
	Right side	0	9262	1852.4	24.50	23.33	130.92%	0.183	0.240	286
	Right side	0	9400	1880	24.50	23.53	125.03%	0.086	0.107	-
	Right side	0	9538	1907.6	24.50	23.34	130.62%	0.082	0.106	-

WCDMA Band IV

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	
WCDMA Band IV	Back side	0	1312	1712.4	24.50	23.81	117.22%	0.050	0.059	-
	Top side	0	1312	1712.4	24.50	23.81	117.22%	0.082	0.096	-
	Right side	0	1312	1712.4	24.50	23.81	117.22%	0.463	0.543	-
	Right side	0	1412	1732.4	24.50	23.74	119.12%	0.546	0.650	-
	Right side	0	1513	1752.6	24.50	23.47	126.77%	0.571	0.724	287

WCDMA Band V

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	
WCDMA Band V	Back side	0	4132	826.4	24.50	23.41	128.53%	0.001	0.002	-
	Top side	0	4132	826.4	24.50	23.41	128.53%	0.028	0.035	-
	Right side	0	4132	826.4	24.50	23.41	128.53%	0.038	0.049	288
	Right side	0	4183	836.6	24.50	23.38	129.42%	0.031	0.040	-
	Right side	0	4233	846.6	24.50	23.35	130.32%	0.026	0.033	-

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LTE FDD Band 2

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	0	18900	1880	24	23.27	118.30%	0.032	0.038	-
					Top side	0	18900	1880	24	23.27	118.30%	0.093	0.110	-
					Right side	0	18700	1860	24	23.25	118.85%	0.172	0.204	289
					Right side	0	18900	1880	24	23.27	118.30%	0.101	0.119	-
					Right side	0	19100	1900	24	23.18	120.78%	0.069	0.083	-
			50 RB	0	Back side	0	18900	1880	23	22.28	118.03%	0.029	0.034	-
					Top side	0	18900	1880	23	22.28	118.03%	0.086	0.102	-
					Right side	0	18900	1880	23	22.28	118.03%	0.094	0.111	-
			100 RB	0	Back side	0	18900	1880	23	22.28	118.03%	0.028	0.033	-
					Top side	0	18900	1880	23	22.28	118.03%	0.085	0.100	-
					Right side	0	18900	1880	23	22.28	118.03%	0.091	0.108	-

LTE FDD Band 4

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	0	20050	1720	24	23.17	121.06%	0.044	0.054	-
					Top side	0	20050	1720	24	23.17	121.06%	0.086	0.104	-
					Right side	0	20050	1720	24	23.17	121.06%	0.456	0.552	-
					Right side	0	20175	1732.5	24	23.12	122.46%	0.494	0.605	-
					Right side	0	20300	1745	24	23.01	125.60%	0.512	0.643	290
			50 RB	0	Back side	0	20050	1720	23	22.10	123.03%	0.038	0.047	-
					Top side	0	20050	1720	23	22.10	123.03%	0.072	0.089	-
					Right side	0	20050	1720	23	22.10	123.03%	0.392	0.482	-
			100 RB	0	Back side	0	20175	1732.5	23	22.04	124.74%	0.035	0.044	-
					Top side	0	20175	1732.5	23	22.04	124.74%	0.067	0.084	-
					Right side	0	20175	1732.5	23	22.04	124.74%	0.371	0.463	-

LTE FDD Band 5

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	49	Back side	0	20525	836.5	25	23.83	130.92%	0.001	0.001	-
					Top side	0	20525	836.5	25	23.83	130.92%	0.027	0.035	-
					Right side	0	20450	829	25	23.81	131.52%	0.039	0.052	-
					Right side	0	20525	836.5	25	23.83	130.92%	0.041	0.054	291
					Right side	0	20600	844	25	23.79	132.13%	0.036	0.048	-
			25 RB	0	Back side	0	20525	836.5	24	22.81	131.52%	0.001	0.001	-
					Top side	0	20525	836.5	24	22.81	131.52%	0.022	0.028	-
					Right side	0	20525	836.5	24	22.81	131.52%	0.032	0.043	-
			50 RB	0	Back side	0	20450	829	24	22.75	133.35%	0.001	0.001	-
					Top side	0	20450	829	24	22.75	133.35%	0.019	0.025	-
					Right side	0	20450	829	24	22.75	133.35%	0.031	0.041	-

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LTE FDD Band 7

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 7	20MHz	QPSK	1 RB	0	Top side	0	21350	2560	24	23.11	122.74%	0.278	0.341	-
					Back side	0	21100	2535	24	23.46	113.24%	0.029	0.032	-
				99	Top side	0	20850	2510	24	23.35	116.14%	0.256	0.297	-
					Top side	0	21100	2535	24	23.46	113.24%	0.308	0.349	292
			50 RB	50	Right side	0	21100	2535	24	23.46	113.24%	0.117	0.132	-
					Back side	0	21100	2535	23	22.39	115.08%	0.011	0.013	-
				50	Top side	0	21100	2535	23	22.39	115.08%	0.201	0.231	-
					Right side	0	21100	2535	23	22.39	115.08%	0.103	0.119	-
			100 RB	50	Back side	0	21100	2535	23	22.25	118.85%	0.010	0.012	-
					Top side	0	21100	2535	23	22.25	118.85%	0.196	0.233	-
				50	Back side	0	21100	2535	23	22.25	118.85%	0.099	0.118	-
					Right side	0	21100	2535	23	22.25	118.85%	0.099	0.118	-

LTE FDD Band 12

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 12	10MHz	QPSK	1 RB	0	Top side	0	23130	711	24	22.81	131.52%	0.036	0.047	293
					Back side	0	23095	707.5	24	22.82	131.22%	0.035	0.045	-
				49	Top side	0	23060	704	24	22.89	129.12%	0.002	0.002	-
					Right side	0	23060	704	24	22.89	129.12%	0.034	0.043	-
			25 RB	25	Back side	0	23060	704	23	21.84	130.62%	0.001	0.002	-
					Top side	0	23060	704	23	21.84	130.62%	0.030	0.039	-
				25	Right side	0	23060	704	23	21.84	130.62%	0.021	0.028	-
					Back side	0	23095	707.5	23	21.81	131.52%	0.001	0.001	-
			50 RB	25	Top side	0	23095	707.5	23	21.81	131.52%	0.029	0.039	-
					Right side	0	23095	707.5	23	21.81	131.52%	0.020	0.027	-
				25	Back side	0	23095	707.5	23	21.81	131.52%	0.020	0.027	-
					Right side	0	23095	707.5	23	21.81	131.52%	0.020	0.027	-

LTE FDD Band 13

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	Right side	0	23230	782	24	22.52	140.60%	0.018	0.025	-
					Back side	0	23230	782	24	22.67	135.83%	0.001	0.002	-
				25	Top side	0	23230	782	24	22.67	135.83%	0.023	0.031	-
					Right side	0	23230	782	24	22.67	135.83%	0.026	0.035	294
			25 RB	25	Right side	0	23230	782	24	22.64	136.77%	0.024	0.033	-
					Back side	0	23230	782	23	21.62	137.40%	0.001	0.001	-
				25	Top side	0	23230	782	23	21.62	137.40%	0.020	0.027	-
					Right side	0	23230	782	23	21.62	137.40%	0.022	0.031	-
			50 RB	25	Back side	0	23230	782	23	21.64	136.77%	0.001	0.001	-
					Top side	0	23230	782	23	21.64	136.77%	0.021	0.029	-
				25	Back side	0	23230	782	23	21.64	136.77%	0.023	0.032	-
					Right side	0	23230	782	23	21.64	136.77%	0.023	0.032	-

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LTE FDD Band 14

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 14	10MHz	QPSK	1 RB	0	Right side	0	23330	793	24	22.73	133.97%	0.027	0.036	-
					Right side	0	23330	793	24	22.68	135.52%	0.029	0.039	-
					Back side	0	23330	793	24	22.76	133.05%	0.001	0.002	-
					Top side	0	23330	793	24	22.76	133.05%	0.023	0.031	-
			25 RB	25	Right side	0	23330	793	24	22.76	133.05%	0.032	0.043	295
					Back side	0	23330	793	23	21.74	133.66%	0.001	0.001	-
					Top side	0	23330	793	23	21.74	133.66%	0.021	0.028	-
					Right side	0	23330	793	23	21.74	133.66%	0.024	0.032	-
			50 RB		Back side	0	23330	793	23	21.67	135.83%	0.001	0.001	-
					Top side	0	23330	793	23	21.67	135.83%	0.020	0.027	-
					Right side	0	23330	793	23	21.67	135.83%	0.022	0.030	-

LTE FDD Band 17

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	0	23800	711	24	22.78	132.43%	0.002	0.003	-
					Top side	0	23780	709	24	22.74	133.66%	0.038	0.051	296
					Top side	0	23790	710	24	22.71	134.59%	0.035	0.047	-
					Top side	0	23800	711	24	22.78	132.43%	0.036	0.048	-
			25 RB	0	Right side	0	23800	711	24	22.78	132.43%	0.027	0.036	-
					Back side	0	23780	709	23	21.76	133.05%	0.002	0.002	-
					Top side	0	23780	709	23	21.76	133.05%	0.037	0.049	-
					Right side	0	23780	709	23	21.76	133.05%	0.026	0.035	-
			50 RB		Back side	0	23780	709	23	21.71	134.59%	0.001	0.002	-
					Top side	0	23780	709	23	21.71	134.59%	0.035	0.047	-
					Right side	0	23780	709	23	21.71	134.59%	0.024	0.032	-

LTE FDD Band 25

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 25	20MHz	QPSK	1 RB	0	Back side	0	26140	1860	24	23.12	122.46%	0.034	0.042	-
					Top side	0	26140	1860	24	23.12	122.46%	0.109	0.133	-
					Right side	0	26140	1860	24	23.12	122.46%	0.173	0.212	297
					Right side	0	26365	1882.5	24	23.09	123.31%	0.093	0.115	-
			50 RB	0	Right side	0	26590	1905	24	23.08	123.59%	0.079	0.098	-
					Back side	0	26365	1882.5	23	22.15	121.62%	0.029	0.036	-
					Top side	0	26365	1882.5	23	22.15	121.62%	0.098	0.119	-
					Right side	0	26365	1882.5	23	22.15	121.62%	0.144	0.175	-
			100 RB		Back side	0	26365	1882.5	23	22.04	124.74%	0.027	0.034	-
					Top side	0	26365	1882.5	23	22.04	124.74%	0.096	0.120	-
					Right side	0	26365	1882.5	23	22.04	124.74%	0.128	0.160	-

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LTE FDD Band 26

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 26	15MHz	QPSK	1 RB	0	Back side	0	26965	841.5	25	23.91	128.53%	0.002	0.003	-
					Top side	0	26965	841.5	25	23.91	128.53%	0.029	0.037	-
					Right side	0	26865	831.5	25	23.87	129.72%	0.031	0.040	-
					Right side	0	26965	841.5	25	23.91	128.53%	0.044	0.057	298
			36 RB	18	Right side	0	26765	821.5	25	23.86	130.02%	0.031	0.041	-
					Back side	0	26865	831.5	24	22.88	129.42%	0.001	0.002	-
					Top side	0	26865	831.5	24	22.88	129.42%	0.024	0.031	-
					Right side	0	26865	831.5	24	22.88	129.42%	0.030	0.039	-
			75 RB		Back side	0	26965	841.5	24	22.93	127.94%	0.001	0.001	-
					Top side	0	26965	841.5	24	22.93	127.94%	0.022	0.028	-
					Right side	0	26965	841.5	24	22.93	127.94%	0.029	0.038	-
					Right side	0	26965	841.5	24	22.93	127.94%	0.029	0.038	-

LTE FDD Band 30

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 30	10MHz	QPSK	1 RB	0	Back side	0	27710	2310	23	22.09	123.31%	0.045	0.056	-
					Top side	0	27710	2310	23	22.09	123.31%	0.218	0.269	-
					Right side	0	27710	2310	23	22.09	123.31%	0.082	0.102	-
					Top side	0	27710	2310	23	21.99	126.18%	0.160	0.202	-
			25 RB	12	Top side	0	27710	2310	23	21.85	130.32%	0.228	0.297	299
					Back side	0	27710	2310	22	20.99	126.18%	0.040	0.050	-
					Top side	0	27710	2310	22	20.99	126.18%	0.088	0.111	-
					Right side	0	27710	2310	22	20.99	126.18%	0.059	0.074	-
			50 RB		Back side	0	27710	2310	22	21.03	125.03%	0.043	0.054	-
					Top side	0	27710	2310	22	21.03	125.03%	0.124	0.155	-
					Right side	0	27710	2310	22	21.03	125.03%	0.074	0.092	-
					Right side	0	27710	2310	22	21.03	125.03%	0.074	0.092	-

LTE TDD Band 38

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 38	20MHz	QPSK	1 RB	0	Back side	0	37850	2580	24	23.13	122.18%	0.057	0.070	-
					Top side	0	37850	2580	24	23.13	122.18%	0.185	0.226	300
					Top side	0	38000	2595	24	23.05	124.45%	0.174	0.217	-
					Top side	0	38150	2610	24	23.06	124.17%	0.167	0.207	-
			50 RB	0	Right side	0	37850	2580	24	23.13	122.18%	0.098	0.120	-
					Back side	0	37850	2580	23	22.12	122.46%	0.053	0.065	-
					Top side	0	37850	2580	23	22.12	122.46%	0.154	0.189	-
					Right side	0	37850	2580	23	22.12	122.46%	0.094	0.115	-
			100 RB		Back side	0	37850	2580	23	22.08	123.59%	0.048	0.059	-
					Top side	0	37850	2580	23	22.08	123.59%	0.147	0.182	-
					Right side	0	37850	2580	23	22.08	123.59%	0.088	0.108	-
					Right side	0	37850	2580	23	22.08	123.59%	0.088	0.108	-

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LTE TDD Band 41

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 41	20MHz	QPSK	1 RB	0	Back side	0	39750	2506	25	24.25	118.85%	0.051	0.061	-
					Top side	0	39750	2506	25	24.25	118.85%	0.165	0.196	301
					Top side	0	40185	2549.5	25	24.17	121.06%	0.154	0.186	-
				99	Top side	0	41490	2680	25	23.94	127.64%	0.147	0.188	-
					Right side	0	39750	2506	25	24.25	118.85%	0.098	0.116	-
					Top side	0	40620	2593	25	23.88	129.42%	0.136	0.176	-
			50 RB	0	Top side	0	41055	2636.5	25	23.97	126.77%	0.141	0.179	-
					Back side	0	39750	2506	24	23.25	118.85%	0.039	0.047	-
					Top side	0	39750	2506	24	23.25	118.85%	0.128	0.152	-
					Right side	0	39750	2506	24	23.25	118.85%	0.078	0.093	-
			100 RB	0	Back side	0	39750	2506	24	23.22	119.67%	0.039	0.047	-
					Top side	0	39750	2506	24	23.22	119.67%	0.124	0.148	-
					Right side	0	39750	2506	24	23.22	119.67%	0.075	0.090	-

LTE FDD Band 66

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 66	20MHz	QPSK	1 RB	0	Back side	0	132072	1720	24	23.03	125.03%	0.057	0.072	-
					Top side	0	132072	1720	24	23.03	125.03%	0.086	0.107	-
					Right side	0	132072	1720	24	23.03	125.03%	0.429	0.536	-
					Right side	0	132322	1745	24	22.85	130.32%	0.509	0.663	-
					Right side	0	132572	1770	24	22.88	129.42%	0.545	0.705	302
			50 RB	0	Back side	0	132072	1720	23	21.95	127.35%	0.043	0.055	-
					Top side	0	132072	1720	23	21.95	127.35%	0.081	0.103	-
					Right side	0	132072	1720	23	21.95	127.35%	0.384	0.489	-
			100 RB	0	Back side	0	132072	1720	23	21.91	128.53%	0.039	0.051	-
					Top side	0	132072	1720	23	21.91	128.53%	0.079	0.101	-
					Right side	0	132072	1720	23	21.91	128.53%	0.376	0.483	-

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Tablet mode

SISO power

WLAN Tx1 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	
Tx1	WLAN 802.11b	Back side	0	2	2417	20.00	19.98	100.46%	0.669	0.672	-
		Top side	0	2	2417	20.00	19.98	100.46%	1.160	1.165	303
		Top side*	0	2	2417	20.00	19.98	100.46%	1.130	1.135	-
		Top side	0	10	2457	20.00	19.96	100.93%	1.040	1.050	-
	WLAN 802.11ac(80M) 5.2G	Back side	0	42	5210	15.00	14.97	100.69%	0.322	0.324	-
		Top side	0	42	5210	15.00	14.97	100.69%	1.100	1.108	304
		Top side*	0	42	5210	15.00	14.97	100.69%	1.050	1.057	-
		Top side	0	58	5290	15.00	14.95	101.16%	0.333	0.337	-
	WLAN 802.11ac(80M) 5.3G	Back side	0	58	5290	15.00	14.95	101.16%	1.030	1.042	305
		Top side*	0	58	5290	15.00	14.95	101.16%	0.999	1.011	-
		Back side	0	114	5570	13.50	13.48	100.46%	0.179	0.180	-
		Top side	0	114	5570	13.50	13.48	100.46%	0.518	0.520	306
	WLAN 802.11ac(160M) 5.6G	Back side	0	155	5775	13.00	12.96	100.93%	0.169	0.171	-
		Top side	0	155	5775	13.00	12.96	100.93%	0.612	0.618	308

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

D01

WLAN Tx2 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	
Tx2	WLAN 802.11b	Back side	0	1	2412	18.00	17.99	100.23%	0.728	0.730	-
		Top side	0	1	2412	18.00	17.99	100.23%	1.170	1.173	309
		Top side*	0	1	2412	18.00	17.99	100.23%	1.140	1.143	-
		Top side	0	11	2462	18.00	17.98	100.46%	1.130	1.135	-
	Bluetooth (GFSK)	Back side	0	78	2480	11.00	9.24	149.97%	0.099	0.149	-
		Top side	0	78	2480	11.00	9.24	149.97%	0.177	0.265	310
	WLAN 802.11ac(80M) 5.2G	Back side	0	42	5210	14.00	13.98	100.46%	0.231	0.232	-
		Top side	0	42	5210	14.00	13.98	100.46%	1.190	1.195	311
		Top side*	0	42	5210	14.00	13.98	100.46%	1.150	1.155	-
		Top side	0	58	5290	13.50	13.44	101.39%	0.203	0.206	-
	WLAN 802.11ac(80M) 5.3G	Back side	0	58	5290	13.50	13.44	101.39%	1.010	1.024	312
		Top side*	0	58	5290	13.50	13.44	101.39%	0.997	1.011	-
		Back side	0	114	5570	13.50	13.48	100.46%	0.274	0.275	-
		Top side	0	114	5570	13.50	13.48	100.46%	0.910	0.914	313
	WLAN 802.11ac(160M) 5.6G	Top side*	0	114	5570	13.50	13.48	100.46%	0.897	0.901	-
		Back side	0	155	5775	15.50	15.49	100.23%	0.413	0.414	-
		Top side	0	155	5775	15.50	15.49	100.23%	1.180	1.183	314
		Top side*	0	155	5775	15.50	15.49	100.23%	1.160	1.163	-

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

D01

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Notebook mode

SISO power

WLAN Tx1 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	
Tx1	WLAN 802.11b	Bottom side	0	2	2417	20.00	19.98	100.46%	0.924	0.928	315
		Bottom side*	0	2	2417	20.00	19.98	100.46%	0.911	0.915	-
		Bottom side	0	6	2437	20.00	19.95	101.16%	0.849	0.859	-
	WLAN 802.11n(40M) 5.2G	Bottom side	0	38	5190	18.50	18.48	100.46%	0.819	0.823	-
		Bottom side	0	46	5230	19.00	18.98	100.46%	0.916	0.920	317
		Bottom side*	0	46	5230	19.00	18.98	100.46%	0.903	0.907	-
	WLAN 802.11n(40M) 5.3G	Bottom side	0	54	5270	19.00	18.98	100.46%	1.050	1.055	318
		Bottom side*	0	54	5270	19.00	18.98	100.46%	1.010	1.015	-
		Bottom side	0	62	5310	17.50	17.44	101.39%	0.604	0.612	-
	WLAN 802.11ac(80M) 5.6G	Bottom side	0	106	5530	17.00	16.99	100.23%	0.475	0.476	319
	WLAN 802.11ac(80M) 5.8G	Bottom side	0	155	5775	16.50	16.49	100.23%	0.451	0.452	320

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

WLAN Tx2 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	
Tx2	WLAN 802.11b	Bottom side	0	1	2412	19.00	18.97	100.69%	0.800	0.806	-
		Bottom side	0	6	2437	19.00	18.99	100.23%	0.852	0.854	321
		Bottom side*	0	6	2437	19.00	18.99	100.23%	0.841	0.843	-
	Bluetooth (GFSK)	Bottom side	0	78	2480	11.00	9.24	149.97%	0.082	0.123	322
		Bottom side	0	42	5210	18.50	18.49	100.23%	0.934	0.936	323
	WLAN 802.11ac(80M) 5.2G	Bottom side*	0	42	5210	18.50	18.49	100.23%	0.928	0.930	-
		Bottom side	0	58	5290	18.00	17.97	100.69%	0.772	0.777	324
	WLAN 802.11ac(80M) 5.3G	Bottom side	0	58	5290	18.00	17.97	100.69%	0.772	0.777	324
	WLAN 802.11ac(80M) 5.6G	Bottom side	0	106	5530	17.00	16.98	100.46%	0.731	0.734	325
	WLAN 802.11ac(80M) 5.8G	Bottom side	0	155	5775	17.00	16.97	100.69%	0.806	0.812	326
		Bottom side*	0	155	5775	17.00	16.97	100.69%	0.790	0.795	-

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

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Tablet mode

MIMO power

WLAN Tx1 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	
Tx1	WLAN 802.11n(20M)	Back side	0	6	2437	14.50	14.49	100.23%	0.228	0.229	-
		Top side	0	6	2437	14.50	14.49	100.23%	0.368	0.369	327
	WLAN 802.11ac(80M) 5.2G	Back side	0	42	5210	11.00	10.96	100.93%	0.109	0.110	-
		Top side	0	42	5210	11.00	10.96	100.93%	0.319	0.322	328
	WLAN 802.11ac(80M) 5.3G	Back side	0	58	5290	10.50	10.47	100.69%	0.125	0.126	-
		Top side	0	58	5290	10.50	10.47	100.69%	0.375	0.378	329
	WLAN 802.11ac(160M) 5.6G	Back side	0	114	5570	10.50	10.48	100.46%	0.092	0.092	-
		Top side	0	114	5570	10.50	10.48	100.46%	0.252	0.253	330
	WLAN 802.11ac(80M) 5.8G	Back side	0	155	5775	10.00	9.98	100.46%	0.077	0.078	-
		Top side	0	155	5775	10.00	9.98	100.46%	0.272	0.273	331

WLAN Tx2 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	
Tx2	WLAN 802.11n(20M)	Back side	0	10	2457	14.50	14.49	100.23%	0.329	0.330	-
		Top side	0	10	2457	14.50	14.49	100.23%	0.570	0.571	332
	WLAN 802.11ac(80M) 5.2G	Back side	0	42	5210	11.00	10.97	100.69%	0.125	0.126	-
		Top side	0	42	5210	11.00	10.97	100.69%	0.499	0.502	333
	WLAN 802.11ac(80M) 5.3G	Back side	0	58	5290	10.50	10.48	100.46%	0.117	0.118	-
		Top side	0	58	5290	10.50	10.48	100.46%	0.443	0.445	334
	WLAN 802.11ac(160M) 5.6G	Back side	0	114	5570	10.50	10.44	101.39%	0.147	0.149	-
		Top side	0	114	5570	10.50	10.44	101.39%	0.426	0.432	335
	WLAN 802.11ac(80M) 5.8G	Back side	0	155	5775	10.00	9.93	101.62%	0.122	0.124	-
		Top side	0	155	5775	10.00	9.93	101.62%	0.483	0.491	336

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Notebook mode**MIMO power****WLAN Tx1 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	
Tx1	WLAN 802.11n(20M)	Bottom side	0	6	2437	14.50	14.49	100.23%	0.249	0.250	337
	WLAN 802.11n(40M) 5.2G	Bottom side	0	46	5230	15.50	15.46	100.93%	0.378	0.381	338
	WLAN 802.11n(40M) 5.3G	Bottom side	0	54	5270	15.00	14.98	100.46%	0.357	0.359	339
	WLAN 802.11ac(80M) 5.6G	Bottom side	0	106	5530	14.00	13.99	100.23%	0.225	0.226	340
	WLAN 802.11ac(80M) 5.8G	Bottom side	0	155	5775	13.50	13.48	100.46%	0.191	0.192	341

WLAN Tx2 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	
Tx2	WLAN 802.11n(20M)	Bottom side	0	10	2457	14.50	14.49	100.23%	0.313	0.314	342
	WLAN 802.11n(40M) 5.2G	Bottom side	0	46	5230	15.50	15.44	101.39%	0.475	0.482	343
	WLAN 802.11n(40M) 5.3G	Bottom side	0	54	5270	15.00	14.99	100.23%	0.395	0.396	344
	WLAN 802.11ac(80M) 5.6G	Bottom side	0	122	5610	14.00	13.98	100.46%	0.465	0.467	345
	WLAN 802.11ac(80M) 5.8G	Bottom side	0	155	5775	13.50	13.45	101.16%	0.393	0.398	346

Note:

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

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

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

2.3 Reporting statements of conformity

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

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3. Simultaneous Transmission Analysis

Simultaneous Transmission Scenarios:

NO.	Simultaneous Transmit Configurations	Body
1	UMTS + 2.4GHz WLAN TX1 / 2.4GHz WLAN TX2 / 2.4GHz MIMO	YES
2	UMTS + 5GHz WLAN TX1 / 5GHz WLAN TX2 / 5GHz MIMO	YES
3	UMTS + BT	YES
4	UMTS + 2.4/5GHz WLAN TX1 + BT	YES
5	LTE + 2.4GHz WLAN TX1 / 2.4GHz WLAN TX2/ 2.4GHz MIMO	YES
6	LTE + 5GHz WLAN TX1 / 5GHz WLAN TX2 / 5GHz MIMO	YES
7	LTE + BT	YES
8	LTE + 2.4/5GHz WLAN TX1 + BT	YES

Note :

- 1) WWAN and WLAN may transmit simultaneously.
- 2) Bluetooth and WLAN TX2 share the same antenna path.
- 3) Bluetooth can transmit with WLAN TX1 simultaneously.

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3.1 Estimated SAR calculation

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

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

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

3.2 SPLSR evaluation and analysis

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

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

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

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

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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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Tablet mode SISO

Back side WWAN + 2.4GHz WLAN Tx1

No.	Position	Conditions	Distance (mm)	Max. WWAN	Max. WLAN Tx1	SAR Sum	SPLSR
1	Back side	WCDMA Band II	0	0.026	0.672	0.698	Σ SAR<1.6, Not required
		WCDMA Band IV	0	0.059	0.672	0.731	Σ SAR<1.6, Not required
		WCDMA Band V	0	0.002	0.672	0.674	Σ SAR<1.6, Not required
		LTE Band 2	0	0.038	0.672	0.710	Σ SAR<1.6, Not required
		LTE Band 4	0	0.054	0.672	0.726	Σ SAR<1.6, Not required
		LTE Band 5	0	0.001	0.672	0.673	Σ SAR<1.6, Not required
		LTE Band 7	0	0.032	0.672	0.704	Σ SAR<1.6, Not required
		LTE Band 12	0	0.002	0.672	0.674	Σ SAR<1.6, Not required
		LTE Band 13	0	0.002	0.672	0.674	Σ SAR<1.6, Not required
		LTE Band 14	0	0.002	0.672	0.674	Σ SAR<1.6, Not required
		LTE Band 17	0	0.003	0.672	0.675	Σ SAR<1.6, Not required
		LTE Band 25	0	0.042	0.672	0.714	Σ SAR<1.6, Not required
		LTE Band 26	0	0.003	0.672	0.675	Σ SAR<1.6, Not required
		LTE Band 30	0	0.056	0.672	0.728	Σ SAR<1.6, Not required
		LTE Band 38	0	0.070	0.672	0.742	Σ SAR<1.6, Not required
		LTE Band 41	0	0.061	0.672	0.733	Σ SAR<1.6, Not required
		LTE Band 66	0	0.072	0.672	0.744	Σ SAR<1.6, Not required

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Back side WWAN + 2.4 GHz WLAN Tx2

No.	Position	Conditions	Distance (mm)	Max. WWAN	Max. WLAN Tx2	SAR Sum	SPLSR
2	Back side	WCDMA Band II	0	0.026	0.730	0.756	Σ SAR<1.6, Not required
		WCDMA Band IV	0	0.059	0.730	0.789	Σ SAR<1.6, Not required
		WCDMA Band V	0	0.002	0.730	0.732	Σ SAR<1.6, Not required
		LTE Band 2	0	0.038	0.730	0.768	Σ SAR<1.6, Not required
		LTE Band 4	0	0.054	0.730	0.784	Σ SAR<1.6, Not required
		LTE Band 5	0	0.001	0.730	0.731	Σ SAR<1.6, Not required
		LTE Band 7	0	0.032	0.730	0.762	Σ SAR<1.6, Not required
		LTE Band 12	0	0.002	0.730	0.732	Σ SAR<1.6, Not required
		LTE Band 13	0	0.002	0.730	0.732	Σ SAR<1.6, Not required
		LTE Band 14	0	0.002	0.730	0.732	Σ SAR<1.6, Not required
		LTE Band 17	0	0.003	0.730	0.733	Σ SAR<1.6, Not required
		LTE Band 25	0	0.042	0.730	0.772	Σ SAR<1.6, Not required
		LTE Band 26	0	0.003	0.730	0.733	Σ SAR<1.6, Not required
		LTE Band 30	0	0.056	0.730	0.786	Σ SAR<1.6, Not required
		LTE Band 38	0	0.070	0.730	0.800	Σ SAR<1.6, Not required
		LTE Band 41	0	0.061	0.730	0.791	Σ SAR<1.6, Not required
		LTE Band 66	0	0.072	0.730	0.802	Σ SAR<1.6, Not required

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Back side WWAN + 5 GHz WLAN Tx1

No.	Position	Conditions	Distance (mm)	Max. WWAN	Max. WLAN Tx1	SAR Sum	SPLSR
3	Back side	WCDMA Band II	0	0.026	0.337	0.363	Σ SAR<1.6, Not required
		WCDMA Band IV	0	0.059	0.337	0.396	Σ SAR<1.6, Not required
		WCDMA Band V	0	0.002	0.337	0.339	Σ SAR<1.6, Not required
		LTE Band 2	0	0.038	0.337	0.375	Σ SAR<1.6, Not required
		LTE Band 4	0	0.054	0.337	0.391	Σ SAR<1.6, Not required
		LTE Band 5	0	0.001	0.337	0.338	Σ SAR<1.6, Not required
		LTE Band 7	0	0.032	0.337	0.369	Σ SAR<1.6, Not required
		LTE Band 12	0	0.002	0.337	0.339	Σ SAR<1.6, Not required
		LTE Band 13	0	0.002	0.337	0.339	Σ SAR<1.6, Not required
		LTE Band 14	0	0.002	0.337	0.339	Σ SAR<1.6, Not required
		LTE Band 17	0	0.003	0.337	0.340	Σ SAR<1.6, Not required
		LTE Band 25	0	0.042	0.337	0.379	Σ SAR<1.6, Not required
		LTE Band 26	0	0.003	0.337	0.340	Σ SAR<1.6, Not required
		LTE Band 30	0	0.056	0.337	0.393	Σ SAR<1.6, Not required
		LTE Band 38	0	0.070	0.337	0.407	Σ SAR<1.6, Not required
		LTE Band 41	0	0.061	0.337	0.398	Σ SAR<1.6, Not required
		LTE Band 66	0	0.072	0.337	0.409	Σ SAR<1.6, Not required

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Back side WWAN + 5 GHz WLAN Tx2

No.	Position	Conditions	Distance (mm)	Max. WWAN	Max. WLAN Tx2	SAR Sum	SPLSR
4	Back side	WCDMA Band II	0	0.026	0.414	0.440	Σ SAR<1.6, Not required
		WCDMA Band IV	0	0.059	0.414	0.473	Σ SAR<1.6, Not required
		WCDMA Band V	0	0.002	0.414	0.416	Σ SAR<1.6, Not required
		LTE Band 2	0	0.038	0.414	0.452	Σ SAR<1.6, Not required
		LTE Band 4	0	0.054	0.414	0.468	Σ SAR<1.6, Not required
		LTE Band 5	0	0.001	0.414	0.415	Σ SAR<1.6, Not required
		LTE Band 7	0	0.032	0.414	0.446	Σ SAR<1.6, Not required
		LTE Band 12	0	0.002	0.414	0.416	Σ SAR<1.6, Not required
		LTE Band 13	0	0.002	0.414	0.416	Σ SAR<1.6, Not required
		LTE Band 14	0	0.002	0.414	0.416	Σ SAR<1.6, Not required
		LTE Band 17	0	0.003	0.414	0.417	Σ SAR<1.6, Not required
		LTE Band 25	0	0.042	0.414	0.456	Σ SAR<1.6, Not required
		LTE Band 26	0	0.003	0.414	0.417	Σ SAR<1.6, Not required
		LTE Band 30	0	0.056	0.414	0.470	Σ SAR<1.6, Not required
		LTE Band 38	0	0.070	0.414	0.484	Σ SAR<1.6, Not required
		LTE Band 41	0	0.061	0.414	0.475	Σ SAR<1.6, Not required
		LTE Band 66	0	0.072	0.414	0.486	Σ SAR<1.6, Not required

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Back side WWAN + Bluetooth + 2.4 GHz WLAN Tx1

No.	Position	Conditions	Distance (mm)	Max. WWAN	Max. WLAN Tx1	BT	SAR Sum	SPLSR
5	Back side	WCDMA Band II	0	0.026	0.672	0.149	0.847	Σ SAR<1.6, Not required
		WCDMA Band IV	0	0.059	0.672	0.149	0.880	Σ SAR<1.6, Not required
		WCDMA Band V	0	0.002	0.672	0.149	0.823	Σ SAR<1.6, Not required
		LTE Band 2	0	0.038	0.672	0.149	0.859	Σ SAR<1.6, Not required
		LTE Band 4	0	0.054	0.672	0.149	0.875	Σ SAR<1.6, Not required
		LTE Band 5	0	0.001	0.672	0.149	0.822	Σ SAR<1.6, Not required
		LTE Band 7	0	0.032	0.672	0.149	0.853	Σ SAR<1.6, Not required
		LTE Band 12	0	0.002	0.672	0.149	0.823	Σ SAR<1.6, Not required
		LTE Band 13	0	0.002	0.672	0.149	0.823	Σ SAR<1.6, Not required
		LTE Band 14	0	0.002	0.672	0.149	0.823	Σ SAR<1.6, Not required
		LTE Band 17	0	0.003	0.672	0.149	0.824	Σ SAR<1.6, Not required
		LTE Band 25	0	0.042	0.672	0.149	0.863	Σ SAR<1.6, Not required
		LTE Band 26	0	0.003	0.672	0.149	0.824	Σ SAR<1.6, Not required
		LTE Band 30	0	0.056	0.672	0.149	0.877	Σ SAR<1.6, Not required
		LTE Band 38	0	0.070	0.672	0.149	0.891	Σ SAR<1.6, Not required
		LTE Band 41	0	0.061	0.672	0.149	0.882	Σ SAR<1.6, Not required
		LTE Band 66	0	0.072	0.672	0.149	0.893	Σ SAR<1.6, Not required

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Back side WWAN + Bluetooth + 5 GHz WLAN Tx1

No.	Position	Conditions	Distance (mm)	Max. WWAN	Max. WLAN Tx1	BT	SAR Sum	SPLSR
6	Back side	WCDMA Band II	0	0.026	0.337	0.149	0.512	Σ SAR<1.6, Not required
		WCDMA Band IV	0	0.059	0.337	0.149	0.545	Σ SAR<1.6, Not required
		WCDMA Band V	0	0.002	0.337	0.149	0.488	Σ SAR<1.6, Not required
		LTE Band 2	0	0.038	0.337	0.149	0.524	Σ SAR<1.6, Not required
		LTE Band 4	0	0.054	0.337	0.149	0.540	Σ SAR<1.6, Not required
		LTE Band 5	0	0.001	0.337	0.149	0.487	Σ SAR<1.6, Not required
		LTE Band 7	0	0.032	0.337	0.149	0.518	Σ SAR<1.6, Not required
		LTE Band 12	0	0.002	0.337	0.149	0.488	Σ SAR<1.6, Not required
		LTE Band 13	0	0.002	0.337	0.149	0.488	Σ SAR<1.6, Not required
		LTE Band 14	0	0.002	0.337	0.149	0.488	Σ SAR<1.6, Not required
		LTE Band 17	0	0.003	0.337	0.149	0.489	Σ SAR<1.6, Not required
		LTE Band 25	0	0.042	0.337	0.149	0.528	Σ SAR<1.6, Not required
		LTE Band 26	0	0.003	0.337	0.149	0.489	Σ SAR<1.6, Not required
		LTE Band 30	0	0.056	0.337	0.149	0.542	Σ SAR<1.6, Not required
		LTE Band 38	0	0.070	0.337	0.149	0.556	Σ SAR<1.6, Not required
		LTE Band 41	0	0.061	0.337	0.149	0.547	Σ SAR<1.6, Not required
		LTE Band 66	0	0.072	0.337	0.149	0.558	Σ SAR<1.6, Not required

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Top side WWAN + 2.4 GHz WLAN Tx1

No.	Position	Conditions	Distance (mm)	Max. WWAN	Max. WLAN Tx1	SAR Sum	SPLSR
7	Top side	WCDMA Band II	0	0.105	1.165	1.270	Σ SAR<1.6, Not required
		WCDMA Band IV	0	0.096	1.165	1.261	Σ SAR<1.6, Not required
		WCDMA Band V	0	0.035	1.165	1.200	Σ SAR<1.6, Not required
		LTE Band 2	0	0.110	1.165	1.275	Σ SAR<1.6, Not required
		LTE Band 4	0	0.104	1.165	1.269	Σ SAR<1.6, Not required
		LTE Band 5	0	0.035	1.165	1.200	Σ SAR<1.6, Not required
		LTE Band 7	0	0.349	1.165	1.514	Σ SAR<1.6, Not required
		LTE Band 12	0	0.047	1.165	1.212	Σ SAR<1.6, Not required
		LTE Band 13	0	0.031	1.165	1.196	Σ SAR<1.6, Not required
		LTE Band 14	0	0.031	1.165	1.196	Σ SAR<1.6, Not required
		LTE Band 17	0	0.051	1.165	1.216	Σ SAR<1.6, Not required
		LTE Band 25	0	0.133	1.165	1.298	Σ SAR<1.6, Not required
		LTE Band 26	0	0.037	1.165	1.202	Σ SAR<1.6, Not required
		LTE Band 30	0	0.297	1.165	1.462	Σ SAR<1.6, Not required
		LTE Band 38	0	0.226	1.165	1.391	Σ SAR<1.6, Not required
		LTE Band 41	0	0.196	1.165	1.361	Σ SAR<1.6, Not required
		LTE Band 66	0	0.107	1.165	1.272	Σ SAR<1.6, Not required

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Top side WWAN + 2.4 GHz WLAN Tx2

No.	Position	Conditions	Distance (mm)	Max. WWAN	Max. WLAN Tx2	SAR Sum	SPLSR
8	Top side	WCDMA Band II	0	0.105	1.173	1.278	Σ SAR<1.6, Not required
		WCDMA Band IV	0	0.096	1.173	1.269	Σ SAR<1.6, Not required
		WCDMA Band V	0	0.035	1.173	1.208	Σ SAR<1.6, Not required
		LTE Band 2	0	0.110	1.173	1.283	Σ SAR<1.6, Not required
		LTE Band 4	0	0.104	1.173	1.277	Σ SAR<1.6, Not required
		LTE Band 5	0	0.035	1.173	1.208	Σ SAR<1.6, Not required
		LTE Band 7	0	0.349	1.173	1.522	Σ SAR<1.6, Not required
		LTE Band 12	0	0.047	1.173	1.220	Σ SAR<1.6, Not required
		LTE Band 13	0	0.031	1.173	1.204	Σ SAR<1.6, Not required
		LTE Band 14	0	0.031	1.173	1.204	Σ SAR<1.6, Not required
		LTE Band 17	0	0.051	1.173	1.224	Σ SAR<1.6, Not required
		LTE Band 25	0	0.133	1.173	1.306	Σ SAR<1.6, Not required
		LTE Band 26	0	0.037	1.173	1.210	Σ SAR<1.6, Not required
		LTE Band 30	0	0.297	1.173	1.470	Σ SAR<1.6, Not required
		LTE Band 38	0	0.226	1.173	1.399	Σ SAR<1.6, Not required
		LTE Band 41	0	0.196	1.173	1.369	Σ SAR<1.6, Not required
		LTE Band 66	0	0.107	1.173	1.280	Σ SAR<1.6, Not required

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Top side WWAN + 5 GHz WLAN Tx1

No.	Position	Conditions	Distance (mm)	Max. WWAN	Max. WLAN Tx1	SAR Sum	SPLSR
9	Top side	WCDMA Band II	0	0.105	1.108	1.213	Σ SAR<1.6, Not required
		WCDMA Band IV	0	0.096	1.108	1.204	Σ SAR<1.6, Not required
		WCDMA Band V	0	0.035	1.108	1.143	Σ SAR<1.6, Not required
		LTE Band 2	0	0.110	1.108	1.218	Σ SAR<1.6, Not required
		LTE Band 4	0	0.104	1.108	1.212	Σ SAR<1.6, Not required
		LTE Band 5	0	0.035	1.108	1.143	Σ SAR<1.6, Not required
		LTE Band 7	0	0.349	1.108	1.457	Σ SAR<1.6, Not required
		LTE Band 12	0	0.047	1.108	1.155	Σ SAR<1.6, Not required
		LTE Band 13	0	0.031	1.108	1.139	Σ SAR<1.6, Not required
		LTE Band 14	0	0.031	1.108	1.139	Σ SAR<1.6, Not required
		LTE Band 17	0	0.051	1.108	1.159	Σ SAR<1.6, Not required
		LTE Band 25	0	0.133	1.108	1.241	Σ SAR<1.6, Not required
		LTE Band 26	0	0.037	1.108	1.145	Σ SAR<1.6, Not required
		LTE Band 30	0	0.297	1.108	1.405	Σ SAR<1.6, Not required
		LTE Band 38	0	0.226	1.108	1.334	Σ SAR<1.6, Not required
		LTE Band 41	0	0.196	1.108	1.304	Σ SAR<1.6, Not required
		LTE Band 66	0	0.107	1.108	1.215	Σ SAR<1.6, Not required

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Top side WWAN + 5 GHz WLAN Tx2

No.	Position	Conditions	Distance (mm)	Max. WWAN	Max. WLAN Tx2	SAR Sum	SPLSR
10	Top side	WCDMA Band II	0	0.105	1.195	1.300	Σ SAR<1.6, Not required
		WCDMA Band IV	0	0.096	1.195	1.291	Σ SAR<1.6, Not required
		WCDMA Band V	0	0.035	1.195	1.230	Σ SAR<1.6, Not required
		LTE Band 2	0	0.110	1.195	1.305	Σ SAR<1.6, Not required
		LTE Band 4	0	0.104	1.195	1.299	Σ SAR<1.6, Not required
		LTE Band 5	0	0.035	1.195	1.230	Σ SAR<1.6, Not required
		LTE Band 7	0	0.349	1.195	1.544	Σ SAR<1.6, Not required
		LTE Band 12	0	0.047	1.195	1.242	Σ SAR<1.6, Not required
		LTE Band 13	0	0.031	1.195	1.226	Σ SAR<1.6, Not required
		LTE Band 14	0	0.031	1.195	1.226	Σ SAR<1.6, Not required
		LTE Band 17	0	0.051	1.195	1.246	Σ SAR<1.6, Not required
		LTE Band 25	0	0.133	1.195	1.328	Σ SAR<1.6, Not required
		LTE Band 26	0	0.037	1.195	1.232	Σ SAR<1.6, Not required
		LTE Band 30	0	0.297	1.195	1.492	Σ SAR<1.6, Not required
		LTE Band 38	0	0.226	1.195	1.421	Σ SAR<1.6, Not required
		LTE Band 41	0	0.196	1.195	1.391	Σ SAR<1.6, Not required
		LTE Band 66	0	0.107	1.195	1.302	Σ SAR<1.6, Not required

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Top side WWAN + Bluetooth + 2.4 GHz WLAN Tx1

No.	Position	Conditions	Distance (mm)	Max. WWAN	Max. WLAN Tx1	BT	SAR Sum	SPLSR
11	Top side	WCDMA Band II	0	0.105	1.165	0.265	1.535	Σ SAR<1.6, Not required
		WCDMA Band IV	0	0.096	1.165	0.265	1.526	Σ SAR<1.6, Not required
		WCDMA Band V	0	0.035	1.165	0.265	1.465	Σ SAR<1.6, Not required
		LTE Band 2	0	0.110	1.165	0.265	1.540	Σ SAR<1.6, Not required
		LTE Band 4	0	0.104	1.165	0.265	1.534	Σ SAR<1.6, Not required
		LTE Band 5	0	0.035	1.165	0.265	1.465	Σ SAR<1.6, Not required
		LTE Band 7	0	0.349	1.165	0.265	1.779	Analyzed as below
		LTE Band 12	0	0.047	1.165	0.265	1.477	Σ SAR<1.6, Not required
		LTE Band 13	0	0.031	1.165	0.265	1.461	Σ SAR<1.6, Not required
		LTE Band 14	0	0.031	1.165	0.265	1.461	Σ SAR<1.6, Not required
		LTE Band 17	0	0.051	1.165	0.265	1.481	Σ SAR<1.6, Not required
		LTE Band 25	0	0.133	1.165	0.265	1.563	Σ SAR<1.6, Not required
		LTE Band 26	0	0.037	1.165	0.265	1.467	Σ SAR<1.6, Not required
		LTE Band 30	0	0.297	1.165	0.265	1.727	Analyzed as below
		LTE Band 38	0	0.226	1.165	0.265	1.656	Analyzed as below
		LTE Band 41	0	0.196	1.165	0.265	1.626	Analyzed as below
		LTE Band 66	0	0.107	1.165	0.265	1.537	Σ SAR<1.6, Not required

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Top side WWAN + Bluetooth + 5 GHz WLAN Tx1

No.	Position	Conditions	Distance (mm)	Max. WWAN	Max. WLAN Tx1	BT	SAR Sum	SPLSR
12	Top side	WCDMA Band II	0	0.105	1.108	0.265	1.478	Σ SAR<1.6, Not required
		WCDMA Band IV	0	0.096	1.108	0.265	1.469	Σ SAR<1.6, Not required
		WCDMA Band V	0	0.035	1.108	0.265	1.408	Σ SAR<1.6, Not required
		LTE Band 2	0	0.110	1.108	0.265	1.483	Σ SAR<1.6, Not required
		LTE Band 4	0	0.104	1.108	0.265	1.477	Σ SAR<1.6, Not required
		LTE Band 5	0	0.035	1.108	0.265	1.408	Σ SAR<1.6, Not required
		LTE Band 7	0	0.349	1.108	0.265	1.722	Analyzed as below
		LTE Band 12	0	0.047	1.108	0.265	1.420	Σ SAR<1.6, Not required
		LTE Band 13	0	0.031	1.108	0.265	1.404	Σ SAR<1.6, Not required
		LTE Band 14	0	0.031	1.108	0.265	1.404	Σ SAR<1.6, Not required
		LTE Band 17	0	0.051	1.108	0.265	1.424	Σ SAR<1.6, Not required
		LTE Band 25	0	0.133	1.108	0.265	1.506	Σ SAR<1.6, Not required
		LTE Band 26	0	0.037	1.108	0.265	1.410	Σ SAR<1.6, Not required
		LTE Band 30	0	0.297	1.108	0.265	1.670	Analyzed as below
		LTE Band 38	0	0.226	1.108	0.265	1.599	Σ SAR<1.6, Not required
		LTE Band 41	0	0.196	1.108	0.265	1.569	Σ SAR<1.6, Not required
		LTE Band 66	0	0.107	1.108	0.265	1.480	Σ SAR<1.6, Not required

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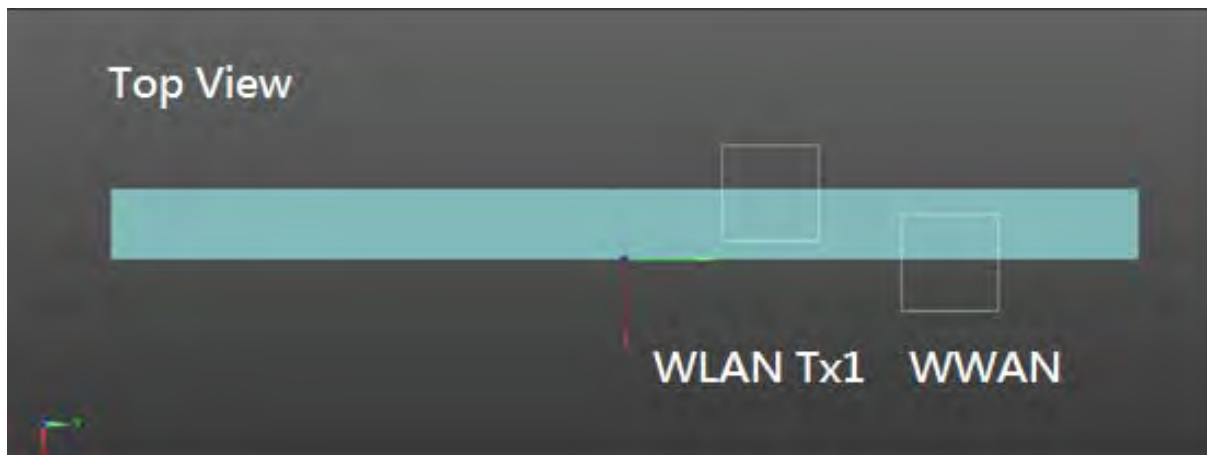
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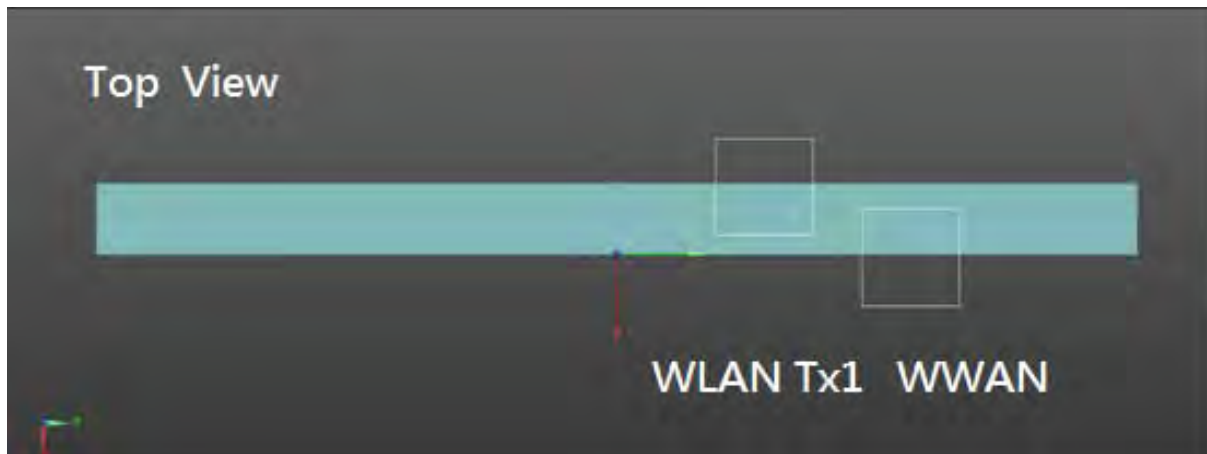
Top side_WLAN 2.4G Tx1 to WWAN

Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			Σ SAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Top side	WLAN 2.4G Tx1	1.165	-1.58	2.04	-0.33	-	-	-	-
	LTE Band 7	0.349	0.20	10.42	-0.25	1.514	85.67	0.022	SPLSR \leq 0.04, Not required
	LTE Band 30	0.297	0.20	9.14	-0.26	1.729	73.20	0.024	SPLSR \leq 0.04, Not required
	LTE Band 38	0.226	0.22	9.22	-0.26	1.391	74.03	0.022	SPLSR \leq 0.04, Not required
	LTE Band 41	0.196	0.10	9.24	-0.25	1.613	73.94	0.021	SPLSR \leq 0.04, Not required

Top side_WLAN 2.4G Tx1 to LTE Band 7



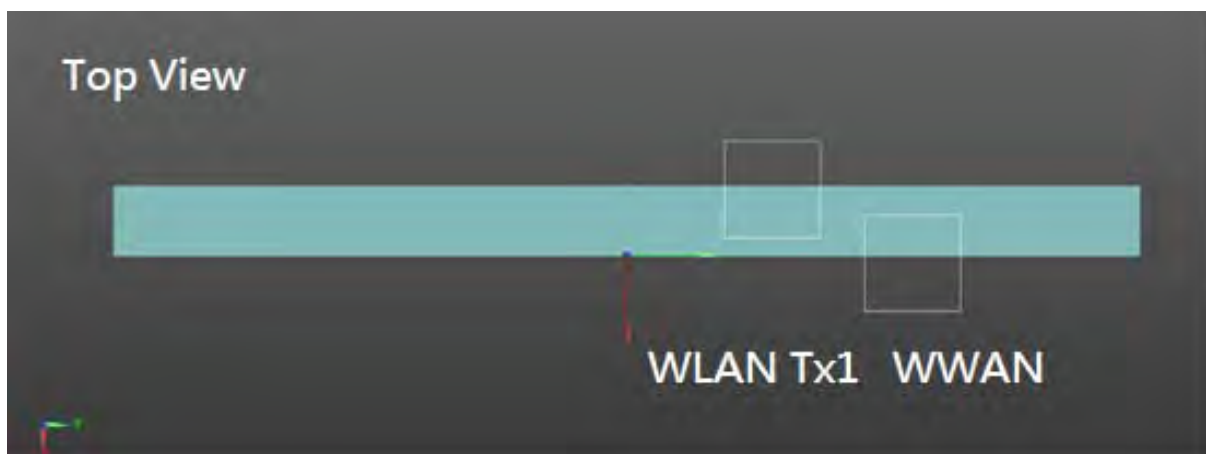
Top side_WLAN 2.4G Tx1 to LTE Band 30



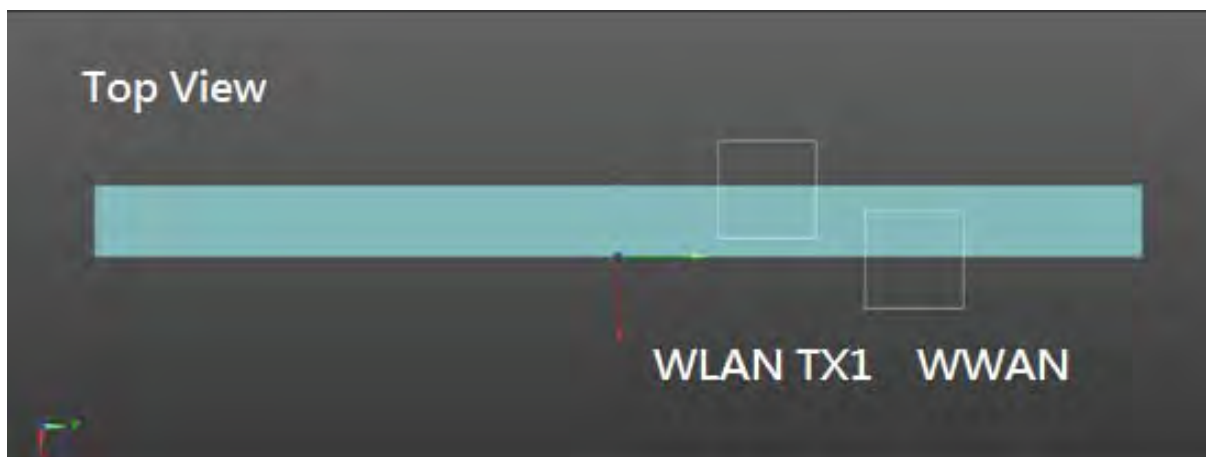
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Top side_ WLAN 2.4G Tx1 to LTE Band 38



Top side_ WLAN 2.4G Tx1 to LTE Band 41



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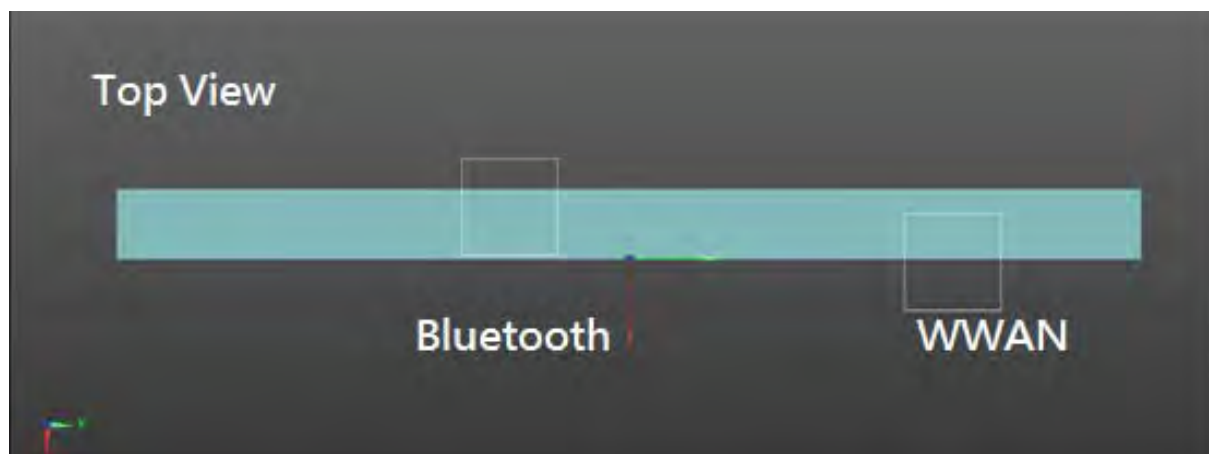
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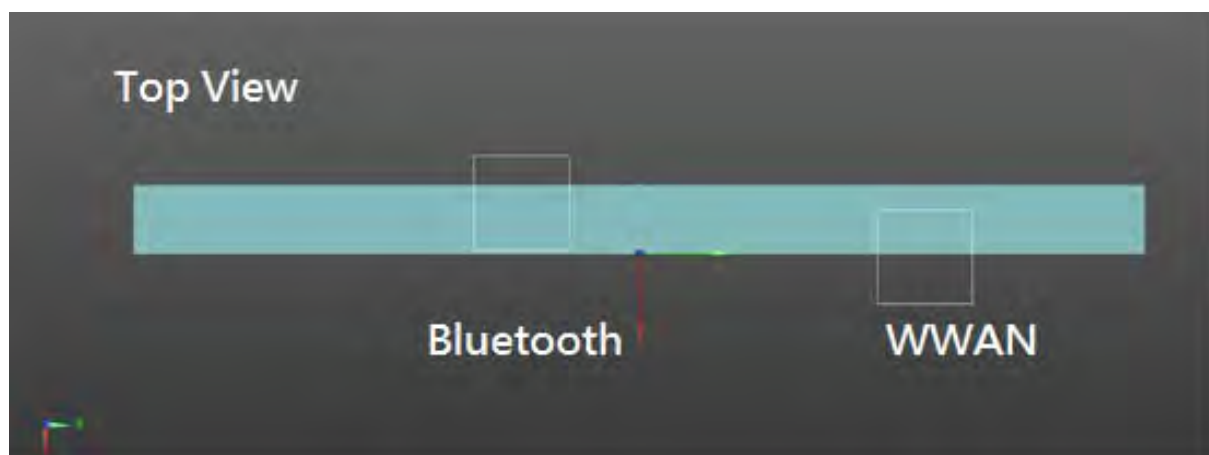
Top side_BT to WWAN

Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			Σ SAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Top side	Bluetooth	0.265	-1.52	-4.02	-0.38	-	-	-	-
	LTE Band 7	0.349	0.20	10.42	-0.25	0.614	145.43	0.003	SPLSR \leq 0.04, Not required
	LTE Band 30	0.297	0.20	9.14	-0.26	1.729	132.72	0.003	SPLSR \leq 0.04, Not required
	LTE Band 38	0.226	0.22	9.22	-0.26	0.491	133.54	0.003	SPLSR \leq 0.04, Not required
	LTE Band 41	0.196	0.10	9.24	-0.25	1.613	133.59	0.002	SPLSR \leq 0.04, Not required

Top side_Bluetooth to LTE Band 7



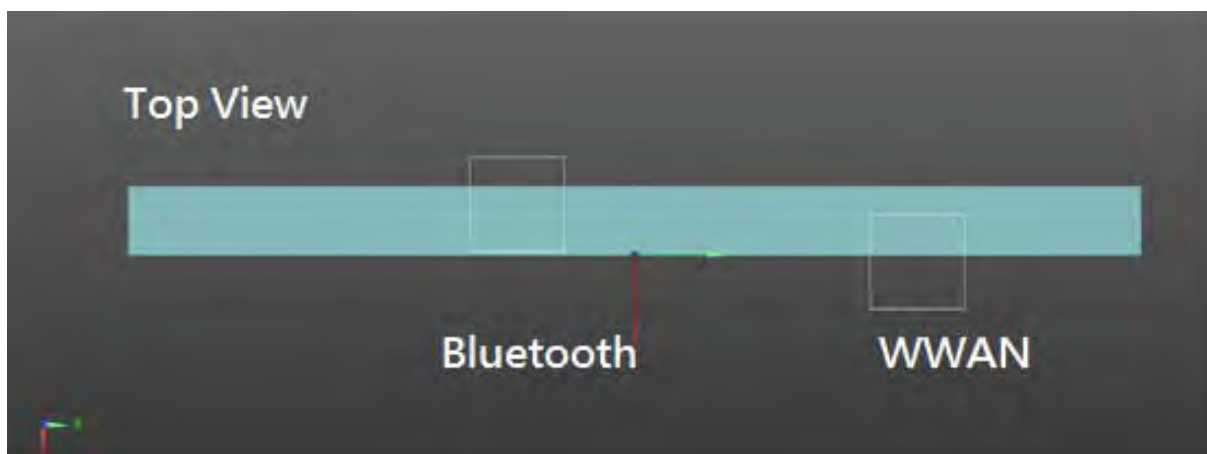
Top side_Bluetooth to LTE Band 30



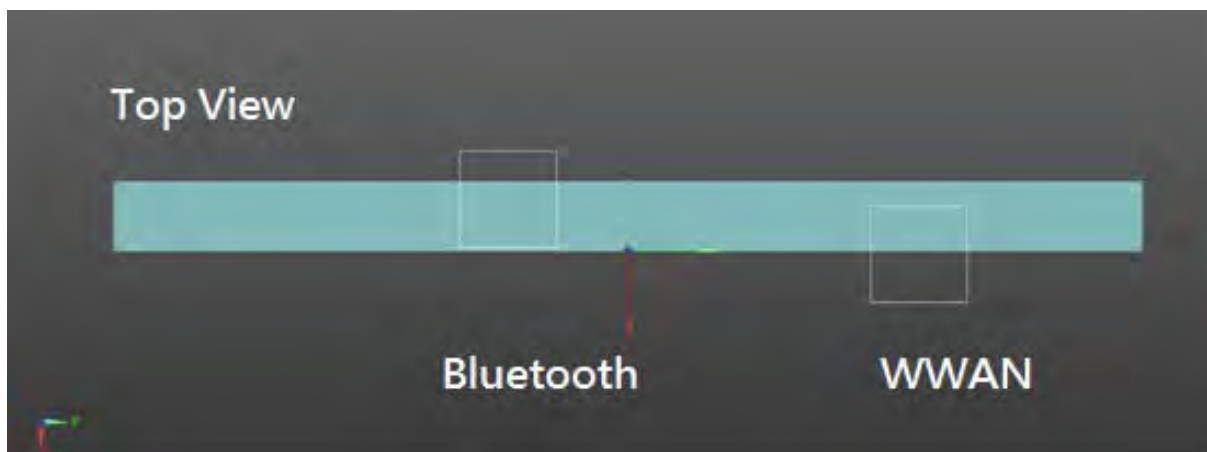
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Top side_Bluetooth to LTE Band 38



Top side_Bluetooth to LTE Band 41



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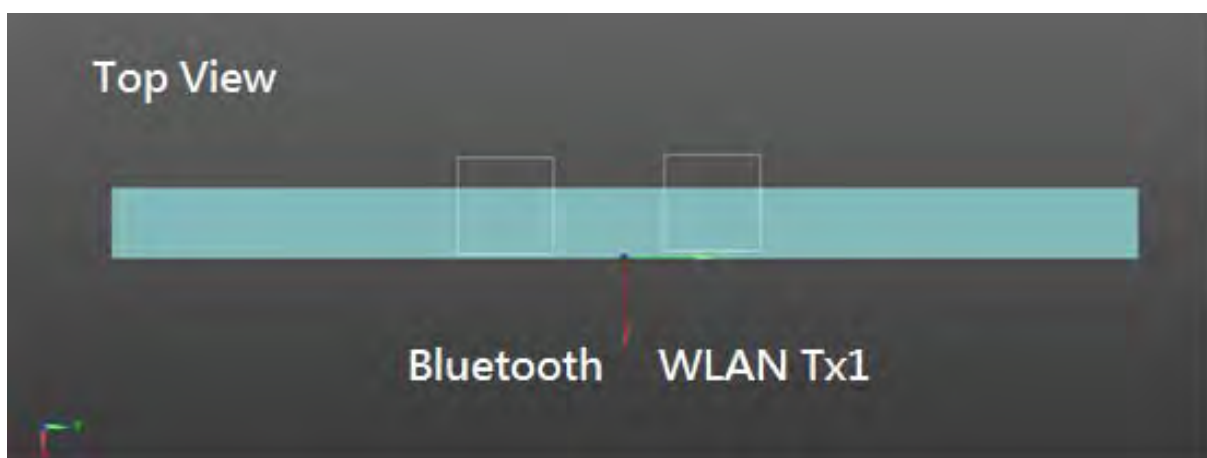
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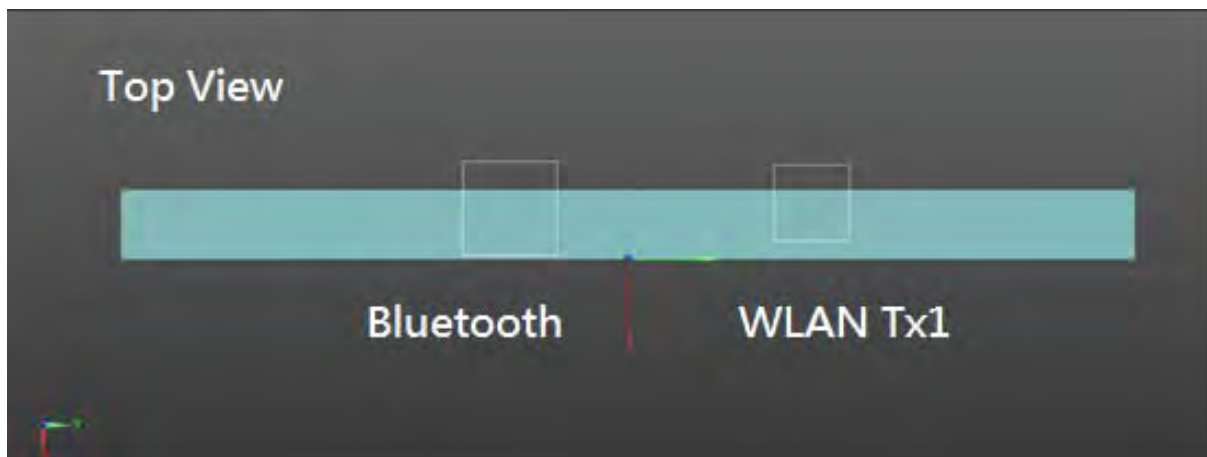
Top WLAN Tx1 to WLAN

Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			Σ SAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Top side	Bluetooth	0.265	-1.52	-4.02	-0.38	-	-	-	-
	WLAN 2.4G Tx1	1.165	-1.58	2.04	-0.33	1.430	60.61	0.028	SPLSR \leq 0.04, Not required
	WLAN 5G Tx1	1.108	-3.22	6.40	-0.33	1.729	105.58	0.015	SPLSR \leq 0.04, Not required

Top side_Bluetooth to WLAN 2.4G Tx1



Top side_Bluetooth to WLAN 5G Tx1



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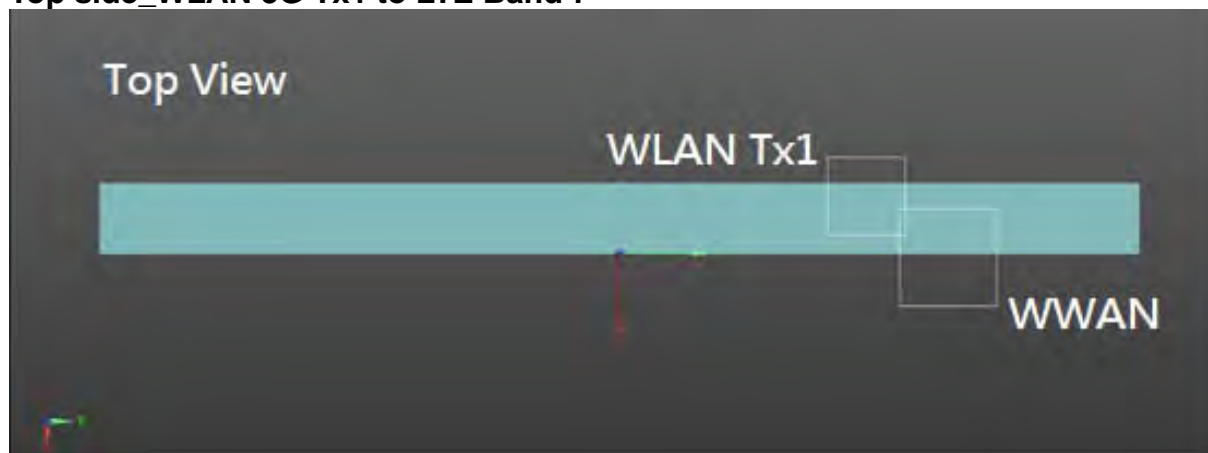
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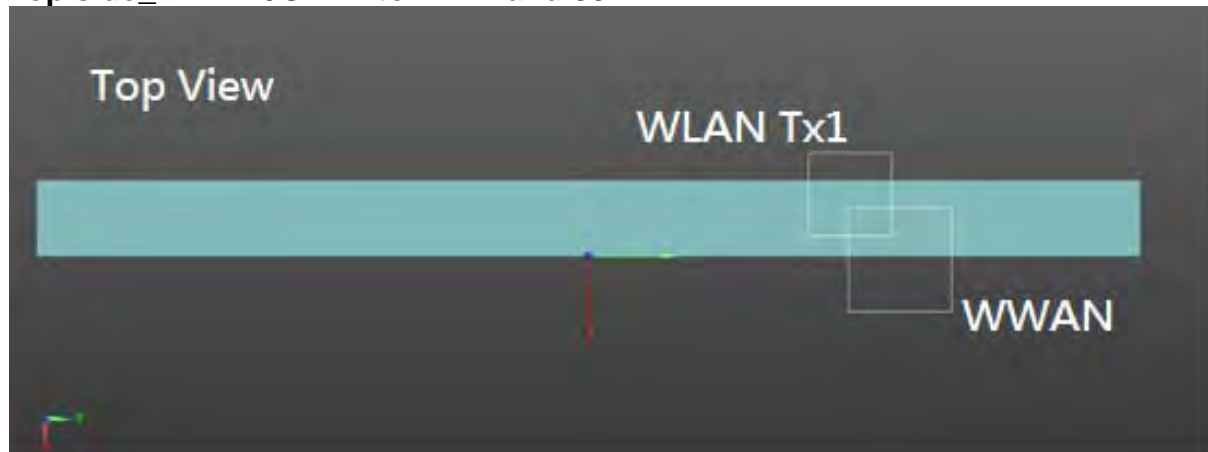
Top side_WLAN 5G Tx1 to WWAN

Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Top side	WLAN 5G Tx1	1.108	-3.22	6.40	-0.33	-	-	-	-
	LTE Band 7	0.349	0.20	10.42	-0.25	1.457	52.79	0.033	SPLSR ≤ 0.04, Not required
	LTE Band 30	0.297	0.20	9.14	-0.26	1.729	43.83	0.038	SPLSR ≤ 0.04, Not required

Top side_WLAN 5G Tx1 to LTE Band 7



Top side_WLAN 5G Tx1 to LTE Band 30



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Right side WWAN + 2.4 GHz WLAN Tx1

No.	Position	Conditions	Distance (mm)	Max. WWAN	Max. WLAN Tx1	SAR Sum	SPLSR
13	Right side	WCDMA Band II	0	0.240	0.400	0.640	Σ SAR<1.6, Not required
		WCDMA Band IV	0	0.724	0.400	1.124	Σ SAR<1.6, Not required
		WCDMA Band V	0	0.049	0.400	0.449	Σ SAR<1.6, Not required
		LTE Band 2	0	0.204	0.400	0.604	Σ SAR<1.6, Not required
		LTE Band 4	0	0.643	0.400	1.043	Σ SAR<1.6, Not required
		LTE Band 5	0	0.054	0.400	0.454	Σ SAR<1.6, Not required
		LTE Band 7	0	0.132	0.400	0.532	Σ SAR<1.6, Not required
		LTE Band 12	0	0.034	0.400	0.434	Σ SAR<1.6, Not required
		LTE Band 13	0	0.035	0.400	0.435	Σ SAR<1.6, Not required
		LTE Band 14	0	0.043	0.400	0.443	Σ SAR<1.6, Not required
		LTE Band 17	0	0.036	0.400	0.436	Σ SAR<1.6, Not required
		LTE Band 25	0	0.212	0.400	0.612	Σ SAR<1.6, Not required
		LTE Band 26	0	0.057	0.400	0.457	Σ SAR<1.6, Not required
		LTE Band 30	0	0.102	0.400	0.502	Σ SAR<1.6, Not required
		LTE Band 38	0	0.120	0.400	0.520	Σ SAR<1.6, Not required
		LTE Band 41	0	0.116	0.400	0.516	Σ SAR<1.6, Not required
		LTE Band 66	0	0.705	0.400	1.105	Σ SAR<1.6, Not required

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Right side WWAN + 2.4 GHz WLAN Tx2

No.	Position	Conditions	Distance (mm)	Max. WWAN	Max. WLAN Tx2	SAR Sum	SPLSR
14	Right side	WCDMA Band II	0	0.240	0.400	0.640	Σ SAR<1.6, Not required
		WCDMA Band IV	0	0.724	0.400	1.124	Σ SAR<1.6, Not required
		WCDMA Band V	0	0.049	0.400	0.449	Σ SAR<1.6, Not required
		LTE Band 2	0	0.204	0.400	0.604	Σ SAR<1.6, Not required
		LTE Band 4	0	0.643	0.400	1.043	Σ SAR<1.6, Not required
		LTE Band 5	0	0.054	0.400	0.454	Σ SAR<1.6, Not required
		LTE Band 7	0	0.132	0.400	0.532	Σ SAR<1.6, Not required
		LTE Band 12	0	0.034	0.400	0.434	Σ SAR<1.6, Not required
		LTE Band 13	0	0.035	0.400	0.435	Σ SAR<1.6, Not required
		LTE Band 14	0	0.043	0.400	0.443	Σ SAR<1.6, Not required
		LTE Band 17	0	0.036	0.400	0.436	Σ SAR<1.6, Not required
		LTE Band 25	0	0.212	0.400	0.612	Σ SAR<1.6, Not required
		LTE Band 26	0	0.057	0.400	0.457	Σ SAR<1.6, Not required
		LTE Band 30	0	0.102	0.400	0.502	Σ SAR<1.6, Not required
		LTE Band 38	0	0.120	0.400	0.520	Σ SAR<1.6, Not required
		LTE Band 41	0	0.116	0.400	0.516	Σ SAR<1.6, Not required
		LTE Band 66	0	0.705	0.400	1.105	Σ SAR<1.6, Not required

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Right side WWAN + 5 GHz WLAN Tx1

No.	Position	Conditions	Distance (mm)	Max. WWAN	Max. WLAN Tx1	SAR Sum	SPLSR
15	Right side	WCDMA Band II	0	0.240	0.400	0.640	Σ SAR<1.6, Not required
		WCDMA Band IV	0	0.724	0.400	1.124	Σ SAR<1.6, Not required
		WCDMA Band V	0	0.049	0.400	0.449	Σ SAR<1.6, Not required
		LTE Band 2	0	0.204	0.400	0.604	Σ SAR<1.6, Not required
		LTE Band 4	0	0.643	0.400	1.043	Σ SAR<1.6, Not required
		LTE Band 5	0	0.054	0.400	0.454	Σ SAR<1.6, Not required
		LTE Band 7	0	0.132	0.400	0.532	Σ SAR<1.6, Not required
		LTE Band 12	0	0.034	0.400	0.434	Σ SAR<1.6, Not required
		LTE Band 13	0	0.035	0.400	0.435	Σ SAR<1.6, Not required
		LTE Band 14	0	0.043	0.400	0.443	Σ SAR<1.6, Not required
		LTE Band 17	0	0.036	0.400	0.436	Σ SAR<1.6, Not required
		LTE Band 25	0	0.212	0.400	0.612	Σ SAR<1.6, Not required
		LTE Band 26	0	0.057	0.400	0.457	Σ SAR<1.6, Not required
		LTE Band 30	0	0.102	0.400	0.502	Σ SAR<1.6, Not required
		LTE Band 38	0	0.120	0.400	0.520	Σ SAR<1.6, Not required
		LTE Band 41	0	0.116	0.400	0.516	Σ SAR<1.6, Not required
		LTE Band 66	0	0.705	0.400	1.105	Σ SAR<1.6, Not required

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Right side WWAN + 5 GHz WLAN Tx2

No.	Position	Conditions	Distance (mm)	Max. WWAN	Max. WLAN Tx2	SAR Sum	SPLSR
16	Right side	WCDMA Band II	0	0.240	0.400	0.640	Σ SAR<1.6, Not required
		WCDMA Band IV	0	0.724	0.400	1.124	Σ SAR<1.6, Not required
		WCDMA Band V	0	0.049	0.400	0.449	Σ SAR<1.6, Not required
		LTE Band 2	0	0.204	0.400	0.604	Σ SAR<1.6, Not required
		LTE Band 4	0	0.643	0.400	1.043	Σ SAR<1.6, Not required
		LTE Band 5	0	0.054	0.400	0.454	Σ SAR<1.6, Not required
		LTE Band 7	0	0.132	0.400	0.532	Σ SAR<1.6, Not required
		LTE Band 12	0	0.034	0.400	0.434	Σ SAR<1.6, Not required
		LTE Band 13	0	0.035	0.400	0.435	Σ SAR<1.6, Not required
		LTE Band 14	0	0.043	0.400	0.443	Σ SAR<1.6, Not required
		LTE Band 17	0	0.036	0.400	0.436	Σ SAR<1.6, Not required
		LTE Band 25	0	0.212	0.400	0.612	Σ SAR<1.6, Not required
		LTE Band 26	0	0.057	0.400	0.457	Σ SAR<1.6, Not required
		LTE Band 30	0	0.102	0.400	0.502	Σ SAR<1.6, Not required
		LTE Band 38	0	0.120	0.400	0.520	Σ SAR<1.6, Not required
		LTE Band 41	0	0.116	0.400	0.516	Σ SAR<1.6, Not required
		LTE Band 66	0	0.705	0.400	1.105	Σ SAR<1.6, Not required

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Right side WWAN + Bluetooth + 2.4 GHz WLAN Tx1

No.	Position	Conditions	Distance (mm)	Max. WWAN	Max. WLAN Tx1	BT	SAR Sum	SPLSR
17	Right side	WCDMA Band II	0	0.240	0.400	0.400	1.040	Σ SAR<1.6, Not required
		WCDMA Band IV	0	0.724	0.400	0.400	1.524	Σ SAR<1.6, Not required
		WCDMA Band V	0	0.049	0.400	0.400	0.849	Σ SAR<1.6, Not required
		LTE Band 2	0	0.204	0.400	0.400	1.004	Σ SAR<1.6, Not required
		LTE Band 4	0	0.643	0.400	0.400	1.443	Σ SAR<1.6, Not required
		LTE Band 5	0	0.054	0.400	0.400	0.854	Σ SAR<1.6, Not required
		LTE Band 7	0	0.132	0.400	0.400	0.932	Σ SAR<1.6, Not required
		LTE Band 12	0	0.034	0.400	0.400	0.834	Σ SAR<1.6, Not required
		LTE Band 13	0	0.035	0.400	0.400	0.835	Σ SAR<1.6, Not required
		LTE Band 14	0	0.043	0.400	0.400	0.843	Σ SAR<1.6, Not required
		LTE Band 17	0	0.036	0.400	0.400	0.836	Σ SAR<1.6, Not required
		LTE Band 25	0	0.212	0.400	0.400	1.012	Σ SAR<1.6, Not required
		LTE Band 26	0	0.057	0.400	0.400	0.857	Σ SAR<1.6, Not required
		LTE Band 30	0	0.102	0.400	0.400	0.902	Σ SAR<1.6, Not required
		LTE Band 38	0	0.120	0.400	0.400	0.920	Σ SAR<1.6, Not required
		LTE Band 41	0	0.116	0.400	0.400	0.916	Σ SAR<1.6, Not required
		LTE Band 66	0	0.705	0.400	0.400	1.505	Σ SAR<1.6, Not required

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Right side WWAN + Bluetooth + 5 GHz WLAN Tx2

No.	Position	Conditions	Distance (mm)	Max. WWAN	Max. WLAN Tx1	BT	SAR Sum	SPLSR
18	Right side	WCDMA Band II	0	0.240	0.400	0.400	1.040	Σ SAR<1.6, Not required
		WCDMA Band IV	0	0.724	0.400	0.400	1.524	Σ SAR<1.6, Not required
		WCDMA Band V	0	0.049	0.400	0.400	0.849	Σ SAR<1.6, Not required
		LTE Band 2	0	0.204	0.400	0.400	1.004	Σ SAR<1.6, Not required
		LTE Band 4	0	0.643	0.400	0.400	1.443	Σ SAR<1.6, Not required
		LTE Band 5	0	0.054	0.400	0.400	0.854	Σ SAR<1.6, Not required
		LTE Band 7	0	0.132	0.400	0.400	0.932	Σ SAR<1.6, Not required
		LTE Band 12	0	0.034	0.400	0.400	0.834	Σ SAR<1.6, Not required
		LTE Band 13	0	0.035	0.400	0.400	0.835	Σ SAR<1.6, Not required
		LTE Band 14	0	0.043	0.400	0.400	0.843	Σ SAR<1.6, Not required
		LTE Band 17	0	0.036	0.400	0.400	0.836	Σ SAR<1.6, Not required
		LTE Band 25	0	0.212	0.400	0.400	1.012	Σ SAR<1.6, Not required
		LTE Band 26	0	0.057	0.400	0.400	0.857	Σ SAR<1.6, Not required
		LTE Band 30	0	0.102	0.400	0.400	0.902	Σ SAR<1.6, Not required
		LTE Band 38	0	0.120	0.400	0.400	0.920	Σ SAR<1.6, Not required
		LTE Band 41	0	0.116	0.400	0.400	0.916	Σ SAR<1.6, Not required
		LTE Band 66	0	0.705	0.400	0.400	1.505	Σ SAR<1.6, Not required

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Left side WWAN + 2.4 GHz WLAN Tx1

No.	Position	Conditions	Distance (mm)	Max. WWAN	Max. WLAN Tx1	SAR Sum	SPLSR
19	Left side	WCDMA Band II	0	-	0.400	0.400	Σ SAR<1.6, Not required
		WCDMA Band IV	0	-	0.400	0.400	Σ SAR<1.6, Not required
		WCDMA Band V	0	-	0.400	0.400	Σ SAR<1.6, Not required
		LTE Band 2	0	-	0.400	0.400	Σ SAR<1.6, Not required
		LTE Band 4	0	-	0.400	0.400	Σ SAR<1.6, Not required
		LTE Band 5	0	-	0.400	0.400	Σ SAR<1.6, Not required
		LTE Band 7	0	-	0.400	0.400	Σ SAR<1.6, Not required
		LTE Band 12	0	-	0.400	0.400	Σ SAR<1.6, Not required
		LTE Band 13	0	-	0.400	0.400	Σ SAR<1.6, Not required
		LTE Band 14	0	-	0.400	0.400	Σ SAR<1.6, Not required
		LTE Band 17	0	-	0.400	0.400	Σ SAR<1.6, Not required
		LTE Band 25	0	-	0.400	0.400	Σ SAR<1.6, Not required
		LTE Band 26	0	-	0.400	0.400	Σ SAR<1.6, Not required
		LTE Band 30	0	-	0.400	0.400	Σ SAR<1.6, Not required
		LTE Band 38	0	-	0.400	0.400	Σ SAR<1.6, Not required
		LTE Band 41	0	-	0.400	0.400	Σ SAR<1.6, Not required
		LTE Band 66	0	-	0.400	0.400	Σ SAR<1.6, Not required

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Left side WWAN + 2.4 GHz WLAN Tx2

No.	Position	Conditions	Distance (mm)	Max. WWAN	Max. WLAN Tx2	SAR Sum	SPLSR
20	Left side	WCDMA Band II	0	-	0.400	0.400	Σ SAR<1.6, Not required
		WCDMA Band IV	0	-	0.400	0.400	Σ SAR<1.6, Not required
		WCDMA Band V	0	-	0.400	0.400	Σ SAR<1.6, Not required
		LTE Band 2	0	-	0.400	0.400	Σ SAR<1.6, Not required
		LTE Band 4	0	-	0.400	0.400	Σ SAR<1.6, Not required
		LTE Band 5	0	-	0.400	0.400	Σ SAR<1.6, Not required
		LTE Band 7	0	-	0.400	0.400	Σ SAR<1.6, Not required
		LTE Band 12	0	-	0.400	0.400	Σ SAR<1.6, Not required
		LTE Band 13	0	-	0.400	0.400	Σ SAR<1.6, Not required
		LTE Band 14	0	-	0.400	0.400	Σ SAR<1.6, Not required
		LTE Band 17	0	-	0.400	0.400	Σ SAR<1.6, Not required
		LTE Band 25	0	-	0.400	0.400	Σ SAR<1.6, Not required
		LTE Band 26	0	-	0.400	0.400	Σ SAR<1.6, Not required
		LTE Band 30	0	-	0.400	0.400	Σ SAR<1.6, Not required
		LTE Band 38	0	-	0.400	0.400	Σ SAR<1.6, Not required
		LTE Band 41	0	-	0.400	0.400	Σ SAR<1.6, Not required
		LTE Band 66	0	-	0.400	0.400	Σ SAR<1.6, Not required

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Left side WWAN + 5 GHz WLAN Tx1

No.	Position	Conditions	Distance (mm)	Max. WWAN	Max. WLAN Main	SAR Sum	SPLSR
27	Left side	WCDMA Band II	0	0.043	0.019	0.062	Σ SAR<1.6, Not required
		WCDMA Band IV	0	0.091	0.019	0.110	Σ SAR<1.6, Not required
		WCDMA Band V	0	0.019	0.019	0.038	Σ SAR<1.6, Not required
		LTE Band 2	0	0.041	0.019	0.060	Σ SAR<1.6, Not required
		LTE Band 4	0	0.060	0.019	0.079	Σ SAR<1.6, Not required
		LTE Band 5	0	0.028	0.019	0.047	Σ SAR<1.6, Not required
		LTE Band 12	0	0.046	0.019	0.065	Σ SAR<1.6, Not required
		LTE Band 13	0	0.053	0.019	0.072	Σ SAR<1.6, Not required
		LTE Band 14	0	0.059	0.019	0.078	Σ SAR<1.6, Not required
		LTE Band 17	0	0.050	0.019	0.069	Σ SAR<1.6, Not required
		LTE Band 25	0	0.047	0.019	0.066	Σ SAR<1.6, Not required
		LTE Band 26	0	0.027	0.019	0.046	Σ SAR<1.6, Not required
		LTE Band 30	0	0.011	0.019	0.030	Σ SAR<1.6, Not required
		LTE Band 38	0	0.020	0.019	0.039	Σ SAR<1.6, Not required
		LTE Band 41	0	0.012	0.019	0.031	Σ SAR<1.6, Not required
		LTE Band 66	0	0.046	0.019	0.065	Σ SAR<1.6, Not required

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Left side WWAN + 5 GHz WLAN Tx2

No.	Position	Conditions	Distance (mm)	Max. WWAN	Max. WLAN Tx2	SAR Sum	SPLSR
22	Left side	WCDMA Band II	0	-	0.400	0.400	Σ SAR<1.6, Not required
		WCDMA Band IV	0	-	0.400	0.400	Σ SAR<1.6, Not required
		WCDMA Band V	0	-	0.400	0.400	Σ SAR<1.6, Not required
		LTE Band 2	0	-	0.400	0.400	Σ SAR<1.6, Not required
		LTE Band 4	0	-	0.400	0.400	Σ SAR<1.6, Not required
		LTE Band 5	0	-	0.400	0.400	Σ SAR<1.6, Not required
		LTE Band 7	0	-	0.400	0.400	Σ SAR<1.6, Not required
		LTE Band 12	0	-	0.400	0.400	Σ SAR<1.6, Not required
		LTE Band 13	0	-	0.400	0.400	Σ SAR<1.6, Not required
		LTE Band 14	0	-	0.400	0.400	Σ SAR<1.6, Not required
		LTE Band 17	0	-	0.400	0.400	Σ SAR<1.6, Not required
		LTE Band 25	0	-	0.400	0.400	Σ SAR<1.6, Not required
		LTE Band 26	0	-	0.400	0.400	Σ SAR<1.6, Not required
		LTE Band 30	0	-	0.400	0.400	Σ SAR<1.6, Not required
		LTE Band 38	0	-	0.400	0.400	Σ SAR<1.6, Not required
		LTE Band 41	0	-	0.400	0.400	Σ SAR<1.6, Not required
		LTE Band 66	0	-	0.400	0.400	Σ SAR<1.6, Not required

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Left side WWAN + Bluetooth + 2.4 GHz WLAN Tx1

No.	Position	Conditions	Distance (mm)	Max. WWAN	Max. WLAN Tx1	BT	SAR Sum	SPLSR
23	Left side	WCDMA Band II	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		WCDMA Band IV	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		WCDMA Band V	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		LTE Band 2	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		LTE Band 4	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		LTE Band 5	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		LTE Band 7	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		LTE Band 12	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		LTE Band 13	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		LTE Band 14	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		LTE Band 17	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		LTE Band 25	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		LTE Band 26	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		LTE Band 30	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		LTE Band 38	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		LTE Band 41	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		LTE Band 66	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required

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Left side WWAN + Bluetooth + 5 GHz WLAN Tx1

No.	Position	Conditions	Distance (mm)	Max. WWAN	Max. WLAN Tx1	BT	SAR Sum	SPLSR
24	Left side	WCDMA Band II	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		WCDMA Band IV	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		WCDMA Band V	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		LTE Band 2	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		LTE Band 4	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		LTE Band 5	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		LTE Band 7	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		LTE Band 12	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		LTE Band 13	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		LTE Band 14	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		LTE Band 17	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		LTE Band 25	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		LTE Band 26	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		LTE Band 30	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		LTE Band 38	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		LTE Band 41	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		LTE Band 66	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required

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Tablet mode

MIMO

Back side WWAN + 2.4GHz WLAN Tx1 + 2.4GHz WLAN Tx2

No.	Position	Conditions	Distance (mm)	Max. WWAN	Max. WLAN Tx1	Max. WLAN Tx2	SAR Sum	SPLSR
1	Back side	WCDMA Band II	0	0.026	0.229	0.330	0.585	Σ SAR<1.6, Not required
		WCDMA Band IV	0	0.059	0.229	0.330	0.618	Σ SAR<1.6, Not required
		WCDMA Band V	0	0.002	0.229	0.330	0.561	Σ SAR<1.6, Not required
		LTE Band 2	0	0.038	0.229	0.330	0.597	Σ SAR<1.6, Not required
		LTE Band 4	0	0.054	0.229	0.330	0.613	Σ SAR<1.6, Not required
		LTE Band 5	0	0.001	0.229	0.330	0.560	Σ SAR<1.6, Not required
		LTE Band 7	0	0.032	0.229	0.330	0.591	Σ SAR<1.6, Not required
		LTE Band 12	0	0.002	0.229	0.330	0.561	Σ SAR<1.6, Not required
		LTE Band 13	0	0.002	0.229	0.330	0.561	Σ SAR<1.6, Not required
		LTE Band 14	0	0.002	0.229	0.330	0.561	Σ SAR<1.6, Not required
		LTE Band 17	0	0.003	0.229	0.330	0.562	Σ SAR<1.6, Not required
		LTE Band 25	0	0.042	0.229	0.330	0.601	Σ SAR<1.6, Not required
		LTE Band 26	0	0.003	0.229	0.330	0.562	Σ SAR<1.6, Not required
		LTE Band 30	0	0.056	0.229	0.330	0.615	Σ SAR<1.6, Not required
		LTE Band 38	0	0.070	0.229	0.330	0.629	Σ SAR<1.6, Not required
		LTE Band 41	0	0.061	0.229	0.330	0.620	Σ SAR<1.6, Not required
		LTE Band 66	0	0.072	0.229	0.330	0.631	Σ SAR<1.6, Not required

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Back side WWAN + 2.4GHz WLAN Tx1 + Bluetooth

No.	Position	Conditions	Distance (mm)	Max. WWAN	Max. WLAN Tx1	BT	SAR Sum	SPLSR
2	Back side	WCDMA Band II	0	0.026	0.229	0.149	0.404	Σ SAR<1.6, Not required
		WCDMA Band IV	0	0.059	0.229	0.149	0.437	Σ SAR<1.6, Not required
		WCDMA Band V	0	0.002	0.229	0.149	0.380	Σ SAR<1.6, Not required
		LTE Band 2	0	0.038	0.229	0.149	0.416	Σ SAR<1.6, Not required
		LTE Band 4	0	0.054	0.229	0.149	0.432	Σ SAR<1.6, Not required
		LTE Band 5	0	0.001	0.229	0.149	0.379	Σ SAR<1.6, Not required
		LTE Band 7	0	0.032	0.229	0.149	0.410	Σ SAR<1.6, Not required
		LTE Band 12	0	0.002	0.229	0.149	0.380	Σ SAR<1.6, Not required
		LTE Band 13	0	0.002	0.229	0.149	0.380	Σ SAR<1.6, Not required
		LTE Band 14	0	0.002	0.229	0.149	0.380	Σ SAR<1.6, Not required
		LTE Band 17	0	0.003	0.229	0.149	0.381	Σ SAR<1.6, Not required
		LTE Band 25	0	0.042	0.229	0.149	0.420	Σ SAR<1.6, Not required
		LTE Band 26	0	0.003	0.229	0.149	0.381	Σ SAR<1.6, Not required
		LTE Band 30	0	0.056	0.229	0.149	0.434	Σ SAR<1.6, Not required
		LTE Band 38	0	0.070	0.229	0.149	0.448	Σ SAR<1.6, Not required
		LTE Band 41	0	0.061	0.229	0.149	0.439	Σ SAR<1.6, Not required
		LTE Band 66	0	0.072	0.229	0.149	0.450	Σ SAR<1.6, Not required

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Back side WWAN + 5GHz WLAN Tx1 +5GHz WLAN Tx2

No.	Position	Conditions	Distance (mm)	Max. WWAN	Max. WLAN Tx1	Max. WLAN Tx2	SAR Sum	SPLSR
3	Back side	WCDMA Band II	0	0.026	0.126	0.149	0.301	Σ SAR<1.6, Not required
		WCDMA Band IV	0	0.059	0.126	0.149	0.334	Σ SAR<1.6, Not required
		WCDMA Band V	0	0.002	0.126	0.149	0.277	Σ SAR<1.6, Not required
		LTE Band 2	0	0.038	0.126	0.149	0.313	Σ SAR<1.6, Not required
		LTE Band 4	0	0.054	0.126	0.149	0.329	Σ SAR<1.6, Not required
		LTE Band 5	0	0.001	0.126	0.149	0.276	Σ SAR<1.6, Not required
		LTE Band 7	0	0.032	0.126	0.149	0.307	Σ SAR<1.6, Not required
		LTE Band 12	0	0.002	0.126	0.149	0.277	Σ SAR<1.6, Not required
		LTE Band 13	0	0.002	0.126	0.149	0.277	Σ SAR<1.6, Not required
		LTE Band 14	0	0.002	0.126	0.149	0.277	Σ SAR<1.6, Not required
		LTE Band 17	0	0.003	0.126	0.149	0.278	Σ SAR<1.6, Not required
		LTE Band 25	0	0.042	0.126	0.149	0.317	Σ SAR<1.6, Not required
		LTE Band 26	0	0.003	0.126	0.149	0.278	Σ SAR<1.6, Not required
		LTE Band 30	0	0.056	0.126	0.149	0.331	Σ SAR<1.6, Not required
		LTE Band 38	0	0.070	0.126	0.149	0.345	Σ SAR<1.6, Not required
		LTE Band 41	0	0.061	0.126	0.149	0.336	Σ SAR<1.6, Not required
		LTE Band 66	0	0.072	0.126	0.149	0.347	Σ SAR<1.6, Not required

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Back side WWAN + 5GHz WLAN Tx1 + Bluetooth

No.	Position	Conditions	Distance (mm)	Max. WWAN	Max. WLAN Tx1	BT	SAR Sum	SPLSR
4	Back side	WCDMA Band II	0	0.026	0.126	0.149	0.301	Σ SAR<1.6, Not required
		WCDMA Band IV	0	0.059	0.126	0.149	0.334	Σ SAR<1.6, Not required
		WCDMA Band V	0	0.002	0.126	0.149	0.277	Σ SAR<1.6, Not required
		LTE Band 2	0	0.038	0.126	0.149	0.313	Σ SAR<1.6, Not required
		LTE Band 4	0	0.054	0.126	0.149	0.329	Σ SAR<1.6, Not required
		LTE Band 5	0	0.001	0.126	0.149	0.276	Σ SAR<1.6, Not required
		LTE Band 7	0	0.032	0.126	0.149	0.307	Σ SAR<1.6, Not required
		LTE Band 12	0	0.002	0.126	0.149	0.277	Σ SAR<1.6, Not required
		LTE Band 13	0	0.002	0.126	0.149	0.277	Σ SAR<1.6, Not required
		LTE Band 14	0	0.002	0.126	0.149	0.277	Σ SAR<1.6, Not required
		LTE Band 17	0	0.003	0.126	0.149	0.278	Σ SAR<1.6, Not required
		LTE Band 25	0	0.042	0.126	0.149	0.317	Σ SAR<1.6, Not required
		LTE Band 26	0	0.003	0.126	0.149	0.278	Σ SAR<1.6, Not required
		LTE Band 30	0	0.056	0.126	0.149	0.331	Σ SAR<1.6, Not required
		LTE Band 38	0	0.070	0.126	0.149	0.345	Σ SAR<1.6, Not required
		LTE Band 41	0	0.061	0.126	0.149	0.336	Σ SAR<1.6, Not required
		LTE Band 66	0	0.072	0.126	0.149	0.347	Σ SAR<1.6, Not required

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Top side WWAN + 2.4GHz WLAN Tx1 + 2.4GHz WLAN Tx2

No.	Position	Conditions	Distance (mm)	Max. WWAN	Max. WLAN Tx1	Max. WLAN Tx2	SAR Sum	SPLSR
5	Top side	WCDMA Band II	0	0.105	0.369	0.571	1.045	Σ SAR<1.6, Not required
		WCDMA Band IV	0	0.096	0.369	0.571	1.036	Σ SAR<1.6, Not required
		WCDMA Band V	0	0.035	0.369	0.571	0.975	Σ SAR<1.6, Not required
		LTE Band 2	0	0.110	0.369	0.571	1.050	Σ SAR<1.6, Not required
		LTE Band 4	0	0.104	0.369	0.571	1.044	Σ SAR<1.6, Not required
		LTE Band 5	0	0.035	0.369	0.571	0.975	Σ SAR<1.6, Not required
		LTE Band 7	0	0.349	0.369	0.571	1.289	Σ SAR<1.6, Not required
		LTE Band 12	0	0.047	0.369	0.571	0.987	Σ SAR<1.6, Not required
		LTE Band 13	0	0.031	0.369	0.571	0.971	Σ SAR<1.6, Not required
		LTE Band 14	0	0.031	0.369	0.571	0.971	Σ SAR<1.6, Not required
		LTE Band 17	0	0.051	0.369	0.571	0.991	Σ SAR<1.6, Not required
		LTE Band 25	0	0.133	0.369	0.571	1.073	Σ SAR<1.6, Not required
		LTE Band 26	0	0.037	0.369	0.571	0.977	Σ SAR<1.6, Not required
		LTE Band 30	0	0.297	0.369	0.571	1.237	Σ SAR<1.6, Not required
		LTE Band 38	0	0.226	0.369	0.571	1.166	Σ SAR<1.6, Not required
		LTE Band 41	0	0.196	0.369	0.571	1.136	Σ SAR<1.6, Not required
		LTE Band 66	0	0.107	0.369	0.571	1.047	Σ SAR<1.6, Not required

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Top side WWAN + 2.4GHz WLAN Tx1 + Bluetooth

No.	Position	Conditions	Distance (mm)	Max. WWAN	Max. WLAN Tx1	BT	SAR Sum	SPLSR
6	Top side	WCDMA Band II	0	0.105	0.369	0.265	0.739	Σ SAR<1.6, Not required
		WCDMA Band IV	0	0.096	0.369	0.265	0.730	Σ SAR<1.6, Not required
		WCDMA Band V	0	0.035	0.369	0.265	0.669	Σ SAR<1.6, Not required
		LTE Band 2	0	0.110	0.369	0.265	0.744	Σ SAR<1.6, Not required
		LTE Band 4	0	0.104	0.369	0.265	0.738	Σ SAR<1.6, Not required
		LTE Band 5	0	0.035	0.369	0.265	0.669	Σ SAR<1.6, Not required
		LTE Band 7	0	0.349	0.369	0.265	0.983	Σ SAR<1.6, Not required
		LTE Band 12	0	0.047	0.369	0.265	0.681	Σ SAR<1.6, Not required
		LTE Band 13	0	0.031	0.369	0.265	0.665	Σ SAR<1.6, Not required
		LTE Band 14	0	0.031	0.369	0.265	0.665	Σ SAR<1.6, Not required
		LTE Band 17	0	0.051	0.369	0.265	0.685	Σ SAR<1.6, Not required
		LTE Band 25	0	0.133	0.369	0.265	0.767	Σ SAR<1.6, Not required
		LTE Band 26	0	0.037	0.369	0.265	0.671	Σ SAR<1.6, Not required
		LTE Band 30	0	0.297	0.369	0.265	0.931	Σ SAR<1.6, Not required
		LTE Band 38	0	0.226	0.369	0.265	0.860	Σ SAR<1.6, Not required
		LTE Band 41	0	0.196	0.369	0.265	0.830	Σ SAR<1.6, Not required
		LTE Band 66	0	0.107	0.369	0.265	0.741	Σ SAR<1.6, Not required

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Top side WWAN + 5GHz WLAN Tx1 +5GHz WLAN Tx2

No.	Position	Conditions	Distance (mm)	Max. WWAN	Max. WLAN Tx1	Max. WLAN Tx2	SAR Sum	SPLSR
7	Top side	WCDMA Band II	0	0.105	0.378	0.502	0.985	Σ SAR<1.6, Not required
		WCDMA Band IV	0	0.096	0.378	0.502	0.976	Σ SAR<1.6, Not required
		WCDMA Band V	0	0.035	0.378	0.502	0.915	Σ SAR<1.6, Not required
		LTE Band 2	0	0.110	0.378	0.502	0.990	Σ SAR<1.6, Not required
		LTE Band 4	0	0.104	0.378	0.502	0.984	Σ SAR<1.6, Not required
		LTE Band 5	0	0.035	0.378	0.502	0.915	Σ SAR<1.6, Not required
		LTE Band 7	0	0.349	0.378	0.502	1.229	Σ SAR<1.6, Not required
		LTE Band 12	0	0.047	0.378	0.502	0.927	Σ SAR<1.6, Not required
		LTE Band 13	0	0.031	0.378	0.502	0.911	Σ SAR<1.6, Not required
		LTE Band 14	0	0.031	0.378	0.502	0.911	Σ SAR<1.6, Not required
		LTE Band 17	0	0.051	0.378	0.502	0.931	Σ SAR<1.6, Not required
		LTE Band 25	0	0.133	0.378	0.502	1.013	Σ SAR<1.6, Not required
		LTE Band 26	0	0.037	0.378	0.502	0.917	Σ SAR<1.6, Not required
		LTE Band 30	0	0.297	0.378	0.502	1.177	Σ SAR<1.6, Not required
		LTE Band 38	0	0.226	0.378	0.502	1.106	Σ SAR<1.6, Not required
		LTE Band 41	0	0.196	0.378	0.502	1.076	Σ SAR<1.6, Not required
		LTE Band 66	0	0.107	0.378	0.502	0.987	Σ SAR<1.6, Not required

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Top side WWAN + 5GHz WLAN Tx1 + Bluetooth

No.	Position	Conditions	Distance (mm)	Max. WWAN	Max. WLAN Tx1	BT	SAR Sum	SPLSR
8	Top side	WCDMA Band II	0	0.105	0.378	0.265	0.748	Σ SAR<1.6, Not required
		WCDMA Band IV	0	0.096	0.378	0.265	0.739	Σ SAR<1.6, Not required
		WCDMA Band V	0	0.035	0.378	0.265	0.678	Σ SAR<1.6, Not required
		LTE Band 2	0	0.110	0.378	0.265	0.753	Σ SAR<1.6, Not required
		LTE Band 4	0	0.104	0.378	0.265	0.747	Σ SAR<1.6, Not required
		LTE Band 5	0	0.035	0.378	0.265	0.678	Σ SAR<1.6, Not required
		LTE Band 7	0	0.349	0.378	0.265	0.992	Σ SAR<1.6, Not required
		LTE Band 12	0	0.047	0.378	0.265	0.690	Σ SAR<1.6, Not required
		LTE Band 13	0	0.031	0.378	0.265	0.674	Σ SAR<1.6, Not required
		LTE Band 14	0	0.031	0.378	0.265	0.674	Σ SAR<1.6, Not required
		LTE Band 17	0	0.051	0.378	0.265	0.694	Σ SAR<1.6, Not required
		LTE Band 25	0	0.133	0.378	0.265	0.776	Σ SAR<1.6, Not required
		LTE Band 26	0	0.037	0.378	0.265	0.680	Σ SAR<1.6, Not required
		LTE Band 30	0	0.297	0.378	0.265	0.940	Σ SAR<1.6, Not required
		LTE Band 38	0	0.226	0.378	0.265	0.869	Σ SAR<1.6, Not required
		LTE Band 41	0	0.196	0.378	0.265	0.839	Σ SAR<1.6, Not required
		LTE Band 66	0	0.107	0.378	0.265	0.750	Σ SAR<1.6, Not required

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Right side WWAN + 2.4GHz WLAN Tx1 + 2.4GHz WLAN Tx2

No.	Position	Conditions	Distance (mm)	Max. WWAN	Max. WLAN Tx1	Max. WLAN Tx2	SAR Sum	SPLSR
9	Right side	WCDMA Band II	0	0.240	0.400	0.400	1.040	Σ SAR<1.6, Not required
		WCDMA Band IV	0	0.724	0.400	0.400	1.524	Σ SAR<1.6, Not required
		WCDMA Band V	0	0.049	0.400	0.400	0.849	Σ SAR<1.6, Not required
		LTE Band 2	0	0.204	0.400	0.400	1.004	Σ SAR<1.6, Not required
		LTE Band 4	0	0.643	0.400	0.400	1.443	Σ SAR<1.6, Not required
		LTE Band 5	0	0.054	0.400	0.400	0.854	Σ SAR<1.6, Not required
		LTE Band 7	0	0.132	0.400	0.400	0.932	Σ SAR<1.6, Not required
		LTE Band 12	0	0.034	0.400	0.400	0.834	Σ SAR<1.6, Not required
		LTE Band 13	0	0.035	0.400	0.400	0.835	Σ SAR<1.6, Not required
		LTE Band 14	0	0.043	0.400	0.400	0.843	Σ SAR<1.6, Not required
		LTE Band 17	0	0.036	0.400	0.400	0.836	Σ SAR<1.6, Not required
		LTE Band 25	0	0.212	0.400	0.400	1.012	Σ SAR<1.6, Not required
		LTE Band 26	0	0.057	0.400	0.400	0.857	Σ SAR<1.6, Not required
		LTE Band 30	0	0.102	0.400	0.400	0.902	Σ SAR<1.6, Not required
		LTE Band 38	0	0.120	0.400	0.400	0.920	Σ SAR<1.6, Not required
		LTE Band 41	0	0.116	0.400	0.400	0.916	Σ SAR<1.6, Not required
		LTE Band 66	0	0.705	0.400	0.400	1.505	Σ SAR<1.6, Not required

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Right side WWAN + 2.4GHz WLAN Tx1 + Bluetooth

No.	Position	Conditions	Distance (mm)	Max. WWAN	Max. WLAN Tx1	BT	SAR Sum	SPLSR
10	Right side	WCDMA Band II	0	0.240	0.400	0.400	1.040	Σ SAR<1.6, Not required
		WCDMA Band IV	0	0.724	0.400	0.400	1.524	Σ SAR<1.6, Not required
		WCDMA Band V	0	0.049	0.400	0.400	0.849	Σ SAR<1.6, Not required
		LTE Band 2	0	0.204	0.400	0.400	1.004	Σ SAR<1.6, Not required
		LTE Band 4	0	0.643	0.400	0.400	1.443	Σ SAR<1.6, Not required
		LTE Band 5	0	0.054	0.400	0.400	0.854	Σ SAR<1.6, Not required
		LTE Band 7	0	0.132	0.400	0.400	0.932	Σ SAR<1.6, Not required
		LTE Band 12	0	0.034	0.400	0.400	0.834	Σ SAR<1.6, Not required
		LTE Band 13	0	0.035	0.400	0.400	0.835	Σ SAR<1.6, Not required
		LTE Band 14	0	0.043	0.400	0.400	0.843	Σ SAR<1.6, Not required
		LTE Band 17	0	0.036	0.400	0.400	0.836	Σ SAR<1.6, Not required
		LTE Band 25	0	0.212	0.400	0.400	1.012	Σ SAR<1.6, Not required
		LTE Band 26	0	0.057	0.400	0.400	0.857	Σ SAR<1.6, Not required
		LTE Band 30	0	0.102	0.400	0.400	0.902	Σ SAR<1.6, Not required
		LTE Band 38	0	0.120	0.400	0.400	0.920	Σ SAR<1.6, Not required
		LTE Band 41	0	0.116	0.400	0.400	0.916	Σ SAR<1.6, Not required
		LTE Band 66	0	0.705	0.400	0.400	1.505	Σ SAR<1.6, Not required

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Right side WWAN + 5GHz WLAN Tx1 +5GHz WLAN Tx2

No.	Position	Conditions	Distance (mm)	Max. WWAN	Max. WLAN Tx1	Max. WLAN Tx2	SAR Sum	SPLSR
11	Right side	WCDMA Band II	0	0.240	0.400	0.400	1.040	Σ SAR<1.6, Not required
		WCDMA Band IV	0	0.724	0.400	0.400	1.524	Σ SAR<1.6, Not required
		WCDMA Band V	0	0.049	0.400	0.400	0.849	Σ SAR<1.6, Not required
		LTE Band 2	0	0.204	0.400	0.400	1.004	Σ SAR<1.6, Not required
		LTE Band 4	0	0.643	0.400	0.400	1.443	Σ SAR<1.6, Not required
		LTE Band 5	0	0.054	0.400	0.400	0.854	Σ SAR<1.6, Not required
		LTE Band 7	0	0.132	0.400	0.400	0.932	Σ SAR<1.6, Not required
		LTE Band 12	0	0.034	0.400	0.400	0.834	Σ SAR<1.6, Not required
		LTE Band 13	0	0.035	0.400	0.400	0.835	Σ SAR<1.6, Not required
		LTE Band 14	0	0.043	0.400	0.400	0.843	Σ SAR<1.6, Not required
		LTE Band 17	0	0.036	0.400	0.400	0.836	Σ SAR<1.6, Not required
		LTE Band 25	0	0.212	0.400	0.400	1.012	Σ SAR<1.6, Not required
		LTE Band 26	0	0.057	0.400	0.400	0.857	Σ SAR<1.6, Not required
		LTE Band 30	0	0.102	0.400	0.400	0.902	Σ SAR<1.6, Not required
		LTE Band 38	0	0.120	0.400	0.400	0.920	Σ SAR<1.6, Not required
		LTE Band 41	0	0.116	0.400	0.400	0.916	Σ SAR<1.6, Not required
		LTE Band 66	0	0.705	0.400	0.400	1.505	Σ SAR<1.6, Not required

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Right side WWAN + 5GHz WLAN Tx1 + Bluetooth

No.	Position	Conditions	Distance (mm)	Max. WWAN	Max. WLAN Tx1	BT	SAR Sum	SPLSR
12	Right side	WCDMA Band II	0	0.240	0.400	0.400	1.040	Σ SAR<1.6, Not required
		WCDMA Band IV	0	0.724	0.400	0.400	1.524	Σ SAR<1.6, Not required
		WCDMA Band V	0	0.049	0.400	0.400	0.849	Σ SAR<1.6, Not required
		LTE Band 2	0	0.204	0.400	0.400	1.004	Σ SAR<1.6, Not required
		LTE Band 4	0	0.643	0.400	0.400	1.443	Σ SAR<1.6, Not required
		LTE Band 5	0	0.054	0.400	0.400	0.854	Σ SAR<1.6, Not required
		LTE Band 7	0	0.132	0.400	0.400	0.932	Σ SAR<1.6, Not required
		LTE Band 12	0	0.034	0.400	0.400	0.834	Σ SAR<1.6, Not required
		LTE Band 13	0	0.035	0.400	0.400	0.835	Σ SAR<1.6, Not required
		LTE Band 14	0	0.043	0.400	0.400	0.843	Σ SAR<1.6, Not required
		LTE Band 17	0	0.036	0.400	0.400	0.836	Σ SAR<1.6, Not required
		LTE Band 25	0	0.212	0.400	0.400	1.012	Σ SAR<1.6, Not required
		LTE Band 26	0	0.057	0.400	0.400	0.857	Σ SAR<1.6, Not required
		LTE Band 30	0	0.102	0.400	0.400	0.902	Σ SAR<1.6, Not required
		LTE Band 38	0	0.120	0.400	0.400	0.920	Σ SAR<1.6, Not required
		LTE Band 41	0	0.116	0.400	0.400	0.916	Σ SAR<1.6, Not required
		LTE Band 66	0	0.705	0.400	0.400	1.505	Σ SAR<1.6, Not required

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Left side WWAN + 2.4GHz WLAN Tx1 + 2.4GHz WLAN Tx2

No.	Position	Conditions	Distance (mm)	Max. WWAN	Max. WLAN Tx1	Max. WLAN Tx2	SAR Sum	SPLSR
13	Left side	WCDMA Band II	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		WCDMA Band IV	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		WCDMA Band V	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		LTE Band 2	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		LTE Band 4	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		LTE Band 5	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		LTE Band 7	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		LTE Band 12	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		LTE Band 13	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		LTE Band 14	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		LTE Band 17	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		LTE Band 25	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		LTE Band 26	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		LTE Band 30	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		LTE Band 38	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		LTE Band 41	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		LTE Band 66	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required

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Left side WWAN + 2.4GHz WLAN Tx1 + Bluetooth

No.	Position	Conditions	Distance (mm)	Max. WWAN	Max. WLAN Tx1	BT	SAR Sum	SPLSR
14	Left side	WCDMA Band II	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		WCDMA Band IV	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		WCDMA Band V	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		LTE Band 2	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		LTE Band 4	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		LTE Band 5	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		LTE Band 7	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		LTE Band 12	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		LTE Band 13	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		LTE Band 14	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		LTE Band 17	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		LTE Band 25	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		LTE Band 26	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		LTE Band 30	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		LTE Band 38	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		LTE Band 41	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		LTE Band 66	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required

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Left side WWAN + 5GHz WLAN Tx1 +5GHz WLAN Tx2

No.	Position	Conditions	Distance (mm)	Max. WWAN	Max. WLAN Tx1	Max. WLAN Tx2	SAR Sum	SPLSR
15	Left side	WCDMA Band II	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		WCDMA Band IV	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		WCDMA Band V	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		LTE Band 2	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		LTE Band 4	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		LTE Band 5	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		LTE Band 7	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		LTE Band 12	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		LTE Band 13	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		LTE Band 14	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		LTE Band 17	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		LTE Band 25	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		LTE Band 26	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		LTE Band 30	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		LTE Band 38	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		LTE Band 41	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		LTE Band 66	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required

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Left side WWAN + 5GHz WLAN Tx1 + Bluetooth

No.	Position	Conditions	Distance (mm)	Max. WWAN	Max. WLAN Tx1	BT	SAR Sum	SPLSR
16	Left side	WCDMA Band II	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		WCDMA Band IV	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		WCDMA Band V	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		LTE Band 2	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		LTE Band 4	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		LTE Band 5	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		LTE Band 7	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		LTE Band 12	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		LTE Band 13	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		LTE Band 14	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		LTE Band 17	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		LTE Band 25	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		LTE Band 26	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		LTE Band 30	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		LTE Band 38	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		LTE Band 41	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required
		LTE Band 66	0	-	0.400	0.400	0.800	Σ SAR<1.6, Not required

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Notebook mode

WWAN + 2.4 GHz WLAN MIMO Tx1 + 2.4 GHz WLAN MIMO Tx2

No.	Conditions	Position	WWAN	Max. WLAN Tx1	Max. WLAN Tx2	SAR Sum	SPLSR
1	WWAN + 2.4 GHz WLAN Tx1 + WLAN Tx2	Bottom side	-	0.250	0.314	0.564	Σ SAR<1.6, Not required

WWAN + 5 GHz WLAN MIMO Tx1 + 5 GHz WLAN MIMO Tx2

No.	Conditions	Position	WWAN	Max. WLAN Tx1	Max. WLAN Tx2	SAR Sum	SPLSR
2	WWAN + 5 GHz WLAN Tx1 + WLAN Tx2	Bottom side	-	0.381	0.482	0.863	Σ SAR<1.6, Not required

WWAN + BT+ 2.4GHz WLAN SISO Tx1

No.	Conditions	Position	WWAN	Max. WLAN Tx1	BT	SAR Sum	SPLSR
3	WWAN + 2.4 GHz WLAN Tx1 + BT	Bottom side	-	0.928	0.123	1.051	Σ SAR<1.6, Not required

WWAN + BT+ 5GHz WLAN SISO Tx1

No.	Conditions	Position	WWAN	Max. WLAN Tx1	BT	SAR Sum	SPLSR
4	WWAN + 5 GHz WLAN Tx1 + BT	Bottom side	-	1.055	0.123	1.178	Σ SAR<1.6, Not required

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4. Instruments List

Manufacturer	Device	Type	Serial number	Date of last calibration	Date of next calibration
SPEAG	Dosimetric E-Field Probe	EX3DV4	3770	Apr.29,2019	Apr.28,2020
SPEAG	System Validation Dipole	D750V3	1015	Aug.23,2019	Aug.22,2020
		D835V2	4d063	Aug.23,2019	Aug.22,2020
		D1750V2	1008	Aug.23,2019	Aug.22,2020
		D1900V2	5d173	Apr.23,2019	Apr.22,2020
		D2300V2	1023	Aug.26,2019	Aug.25,2020
		D2450V2	727	Apr.24,2019	Apr.23,2020
		D2600V2	1005	Jan.28,2019	Jan.27,2020
		D5GHzV2	1023	Jan.30,2019	Jan.29,2020
SPEAG	Data acquisition Electronics	DAE4	856	Apr.24,2019	Apr.23,2020
SPEAG	Software	DASY 52 V52.8.8	N/A	Calibration not required	Calibration not required
SPEAG	Phantom	ELI	N/A	Calibration not required	Calibration not required
Agilent	Network Analyzer	E5071C	MY46107530	Feb.23,2019	Feb.22,2020
Agilent	Dielectric Probe Kit	85070E	MY44300677	Calibration not required	Calibration not required
Agilent	Dual-directional coupler	772D	MY46151242	Jul.30,2019	Jul.29,2020
		778D	MY48220468	Jul.30,2019	Jul.29,2020

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Manufacturer	Device	Type	Serial number	Date of last calibration	Date of next calibration
Agilent	RF Signal Generator	N5181A	MY50141235	Apr.22,2019	Apr.21,2020
Agilent	Power Meter	E4417A	MY51410006	Feb.19,2019	Feb.18,2020
Agilent	Power Sensor	E9301H	MY51470001	Feb.19,2019	Feb.18,2020
			MY51470002	Feb.19,2019	Feb.18,2020
TECPEL	Digital thermometer	DTM-303A	TP130074	Mar.26,2019	Mar.25,2020
Agilent	Radio Communication Test	MT8820C	6201061049	Dec.27,2018	Dec.26,2019

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5. Measurements

Date: 2019/12/18

WCDMA Band II_Body_Right side_CH 9262_0mm

Communication System: WCDMA; Frequency: 1852.4 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1852.4$ MHz; $\sigma = 1.409$ S/m; $\epsilon_r = 39.253$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 21.4°C; Liquid temperature: 22.0°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(8.23, 8.23, 8.23); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (51x111x1): Interpolated grid: dx=15 mm, dy=15 mm

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

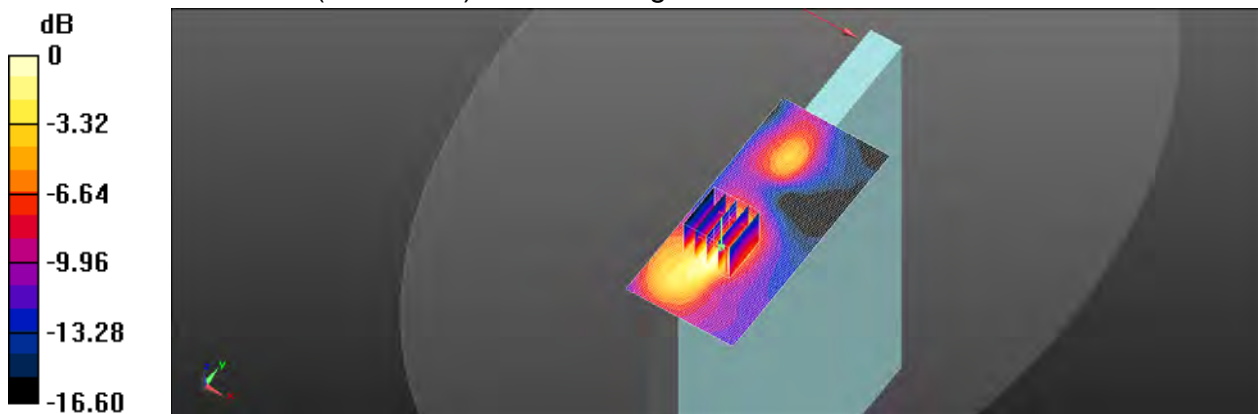
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.996 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 0.353 W/kg

SAR(1 g) = 0.183 W/kg; SAR(10 g) = 0.095 W/kg

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



0 dB = 0.276 W/kg = -5.59 dBW/kg

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Member of SGS Group

Date: 2019/12/18

WCDMA Band IV_Body_Right side_CH 1513_0mm

Communication System: WCDMA; Frequency: 1752.6 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1753$ MHz; $\sigma = 1.322$ S/m; $\epsilon_r = 39.436$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(8.44, 8.44, 8.44); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (51x111x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.802 W/kg

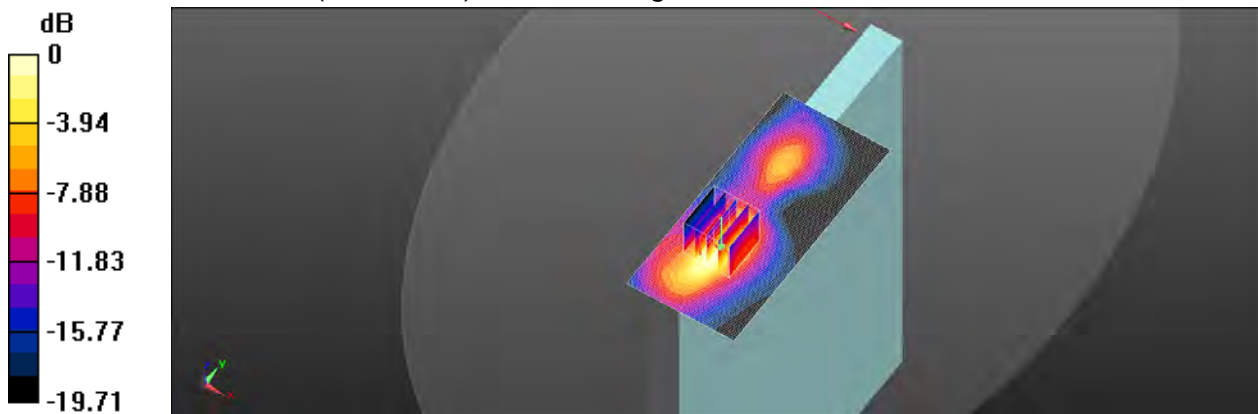
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.99 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 1.01 W/kg

SAR(1 g) = 0.571 W/kg; SAR(10 g) = 0.293 W/kg

Maximum value of SAR (measured) = 0.807 W/kg



0 dB = 0.807 W/kg = -0.93 dBW/kg

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Date: 2019/12/17

WCDMA Band V_Body_Right side_CH 4132_0mm

Communication System: WCDMA; Frequency: 826.4 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 826.4$ MHz; $\sigma = 0.878$ S/m; $\epsilon_r = 42.906$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 21.9°C; Liquid temperature: 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(9.44, 9.44, 9.44); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (51x81x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.0606 W/kg

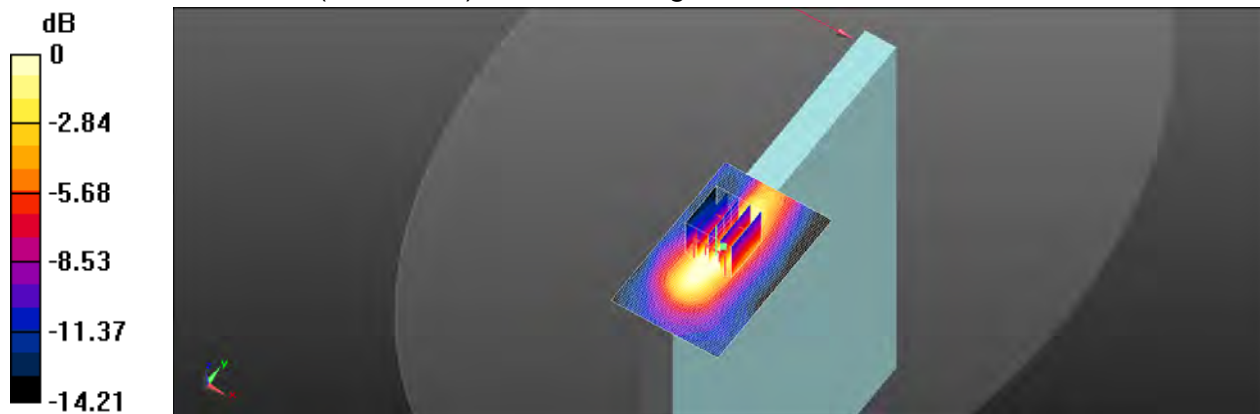
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.099 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.0740 W/kg

SAR(1 g) = 0.038 W/kg; SAR(10 g) = 0.021 W/kg

Maximum value of SAR (measured) = 0.0509 W/kg



0 dB = 0.0509 W/kg = -12.93 dBW/kg

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Date: 2019/12/18

LTE Band 2 (20MHz)_Body_Right side_CH 18700_QPSK_1-0_0mm

Communication System: LTE; Frequency: 1860 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1860$ MHz; $\sigma = 1.415$ S/m; $\epsilon_r = 39.072$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 21.4°C; Liquid temperature: 22.0°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(8.23, 8.23, 8.23); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (51x111x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.258 W/kg

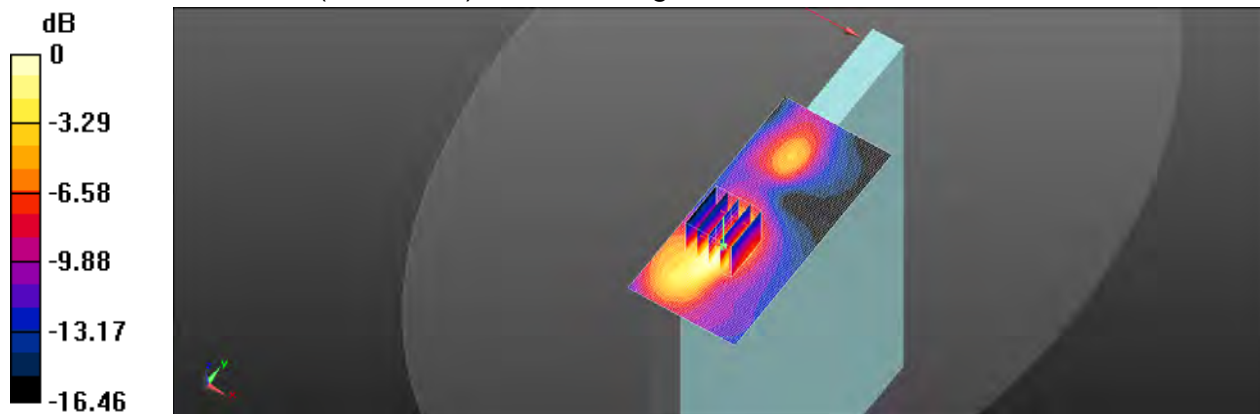
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.464 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.330 W/kg

SAR(1 g) = 0.172 W/kg; SAR(10 g) = 0.088 W/kg

Maximum value of SAR (measured) = 0.258 W/kg



0 dB = 0.258 W/kg = -5.88 dBW/kg

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Date: 2019/12/18

LTE Band 4 (20MHz)_Body_Right side_CH 20300_QPSK_1-0_0mm

Communication System: LTE; Frequency: 1745 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1745$ MHz; $\sigma = 1.315$ S/m; $\epsilon_r = 39.456$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(8.44, 8.44, 8.44); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (51x111x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.758 W/kg

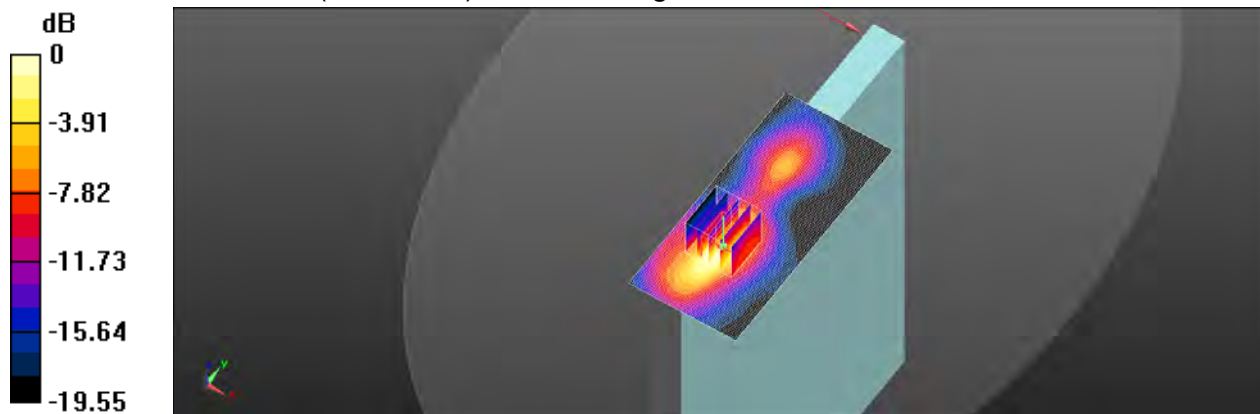
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.48 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.959 W/kg

SAR(1 g) = 0.512 W/kg; SAR(10 g) = 0.251 W/kg

Maximum value of SAR (measured) = 0.762 W/kg



0 dB = 0.762 W/kg = -1.18 dBW/kg

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Date: 2019/12/17

LTE Band 5 (10MHz)_Body_Right side_CH 20525_QPSK_1-49_0mm

Communication System: LTE; Frequency: 836.5 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 836.5 \text{ MHz}$; $\sigma = 0.888 \text{ S/m}$; $\epsilon_r = 42.799$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.9°C ; Liquid temperature: 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(9.44, 9.44, 9.44); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (51x81x1): Interpolated grid: $dx=15 \text{ mm}$, $dy=15 \text{ mm}$

Maximum value of SAR (interpolated) = 0.0645 W/kg

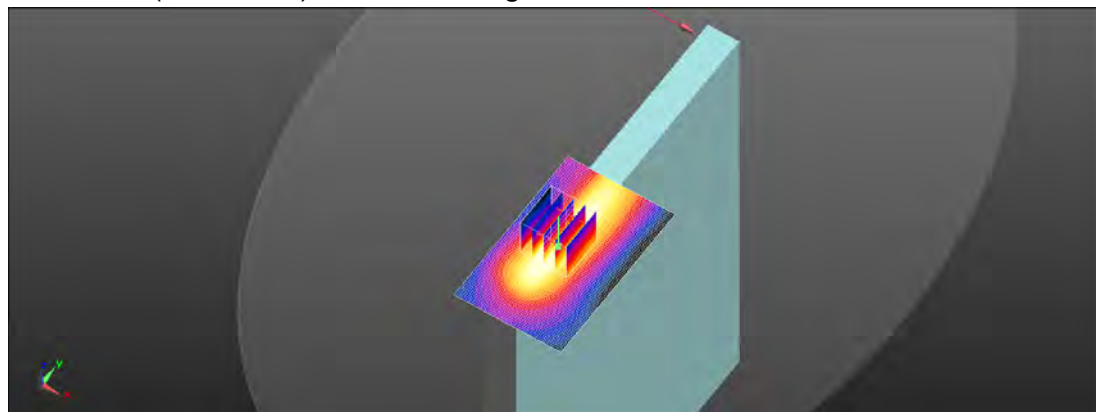
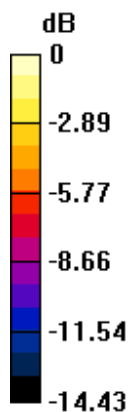
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 5.477 V/m ; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 0.0780 W/kg

SAR(1 g) = 0.041 W/kg ; SAR(10 g) = 0.024 W/kg

Maximum value of SAR (measured) = 0.0574 W/kg



0 dB = 0.0574 W/kg = -12.41 dBW/kg

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Date: 2019/12/19

LTE Band 7 (20MHz)_Body_Top side_CH 21100_QPSK_1-99_0mm

Communication System: LTE; Frequency: 2535 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2535$ MHz; $\sigma = 1.875$ S/m; $\epsilon_r = 37.791$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.0°C; Liquid temperature: 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.3, 7.3, 7.3); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (71x131x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.421 W/kg

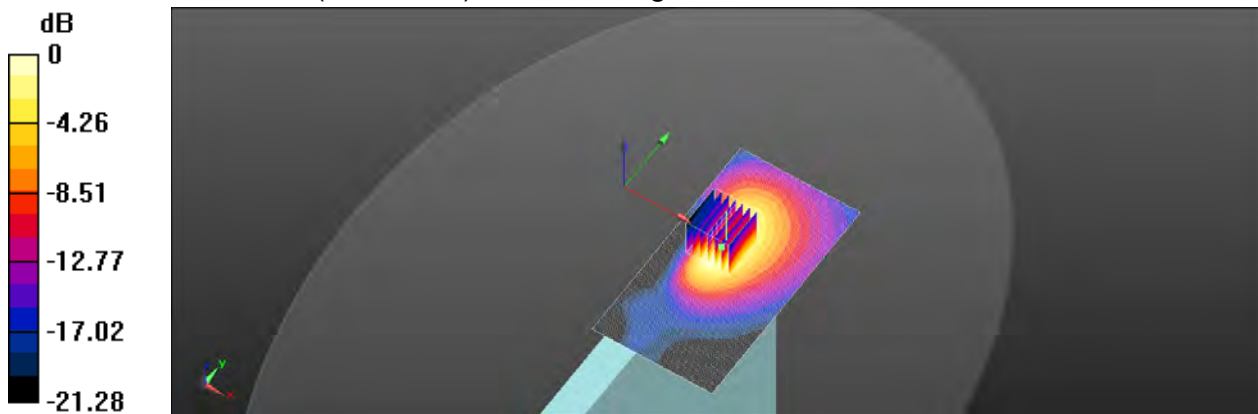
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.554 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 0.486 W/kg

SAR(1 g) = 0.308 W/kg; SAR(10 g) = 0.190 W/kg

Maximum value of SAR (measured) = 0.367 W/kg



0 dB = 0.367 W/kg = -4.35 dBW/kg

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Date: 2019/12/17

LTE Band 12 (10MHz)_Body_Top side_CH 23130_QPSK_1-0_0mm

Communication System: LTE; Frequency: 711 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 711$ MHz; $\sigma = 0.867$ S/m; $\epsilon_r = 43.343$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(9.68, 9.68, 9.68); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (51x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.0446 W/kg

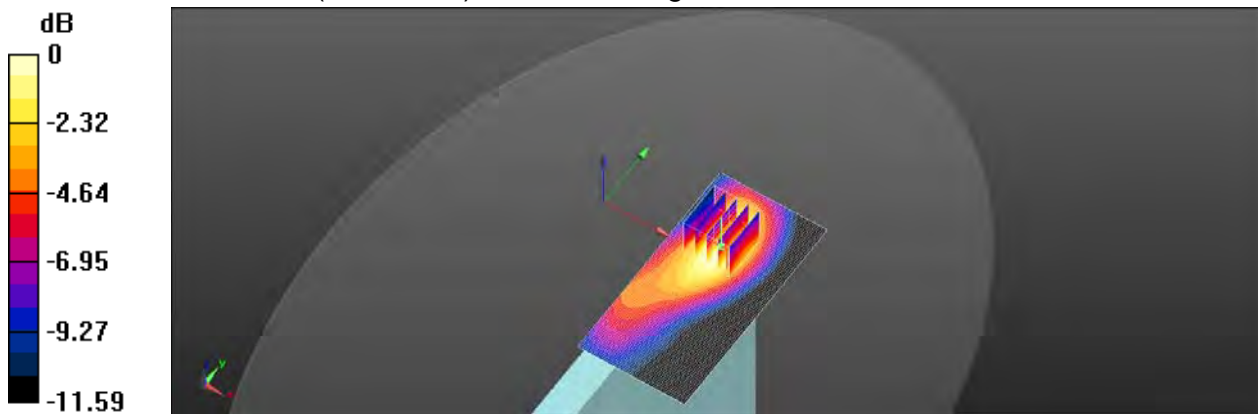
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.289 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.0520 W/kg

SAR(1 g) = 0.036 W/kg; SAR(10 g) = 0.024 W/kg

Maximum value of SAR (measured) = 0.0451 W/kg



0 dB = 0.0451 W/kg = -13.46 dBW/kg

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Date: 2019/12/17

LTE Band 13 (10MHz)_Body_Right side_CH 23230_QPSK_1-25_0mm

Communication System: LTE; Frequency: 782 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 782 \text{ MHz}$; $\sigma = 0.921 \text{ S/m}$; $\epsilon_r = 42.545$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(9.68, 9.68, 9.68); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (51x81x1): Interpolated grid: $dx=15 \text{ mm}$, $dy=15 \text{ mm}$

Maximum value of SAR (interpolated) = 0.0413 W/kg

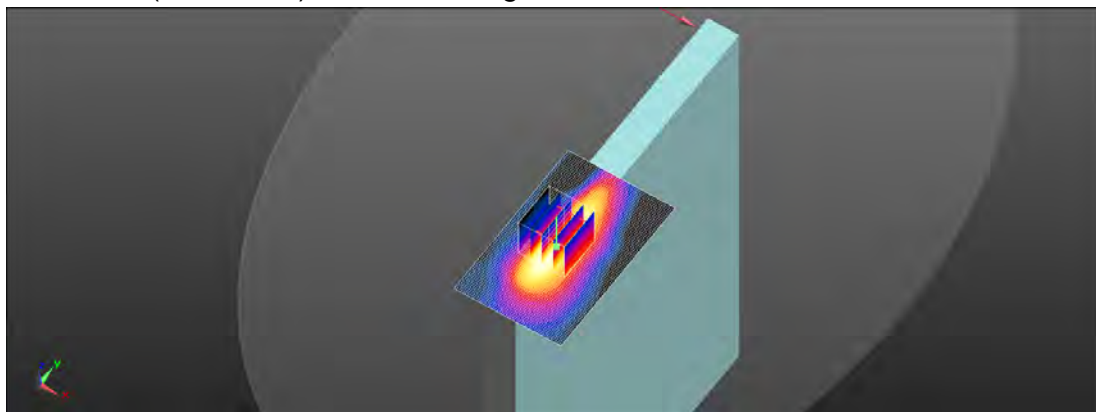
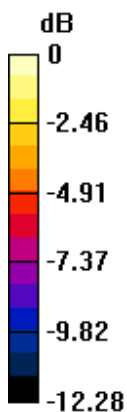
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 2.241 V/m ; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.0500 W/kg

SAR(1 g) = 0.026 W/kg ; SAR(10 g) = 0.015 W/kg

Maximum value of SAR (measured) = 0.0349 W/kg



0 dB = 0.0349 W/kg = -14.57 dBW/kg

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Date: 2019/12/17

LTE Band 14 (10MHz)_Body_Right side_CH 23330_QPSK_1-49_0mm

Communication System: LTE; Frequency: 793 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 793 \text{ MHz}$; $\sigma = 0.932 \text{ S/m}$; $\epsilon_r = 42.342$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(9.68, 9.68, 9.68); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (51x81x1): Interpolated grid: $dx=15 \text{ mm}$, $dy=15 \text{ mm}$

Maximum value of SAR (interpolated) = 0.0497 W/kg

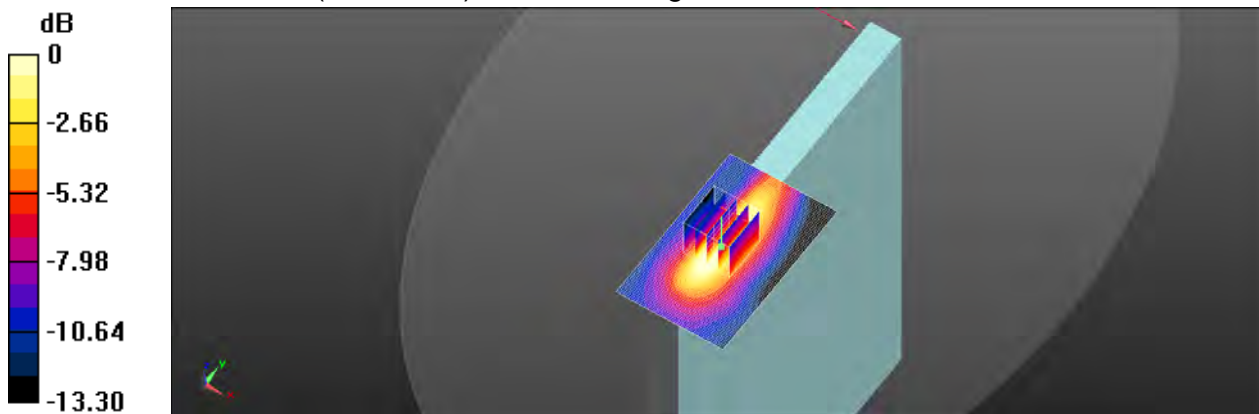
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 3.052 V/m ; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 0.0600 W/kg

SAR(1 g) = 0.032 W/kg ; SAR(10 g) = 0.018 W/kg

Maximum value of SAR (measured) = 0.0428 W/kg



0 dB = 0.0428 W/kg = -13.69 dBW/kg

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Date: 2019/12/17

LTE Band 17 (10MHz)_Body_Top side_CH 23780_QPSK_1-0_0mm

Communication System: LTE; Frequency: 709 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 709 \text{ MHz}$; $\sigma = 0.865 \text{ S/m}$; $\epsilon_r = 43.408$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(9.68, 9.68, 9.68); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (51x101x1): Interpolated grid: $dx=15 \text{ mm}$, $dy=15 \text{ mm}$

Maximum value of SAR (interpolated) = 0.0467 W/kg

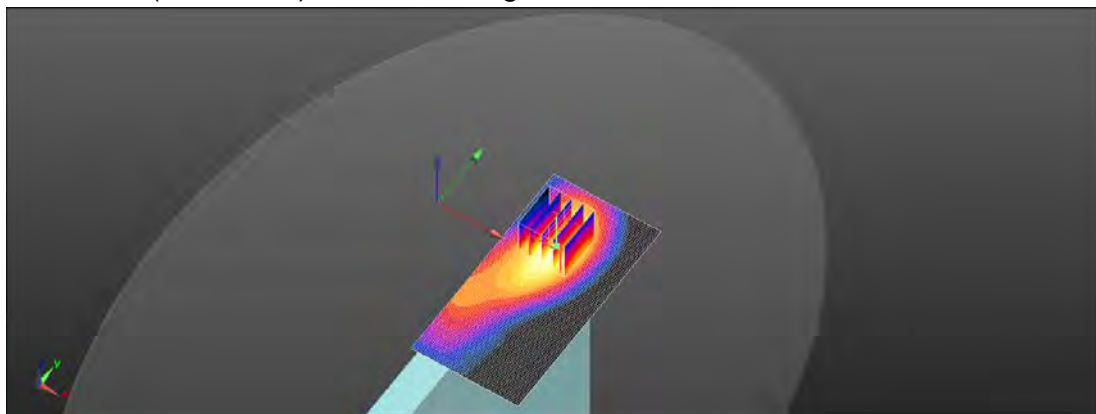
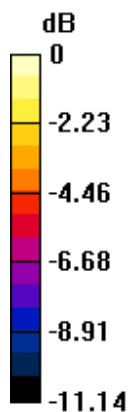
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 2.295 V/m ; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 0.0550 W/kg

SAR(1 g) = 0.038 W/kg ; SAR(10 g) = 0.025 W/kg

Maximum value of SAR (measured) = 0.0475 W/kg



0 dB = 0.0475 W/kg = -13.23 dBW/kg

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Date: 2019/12/18

LTE Band 25 (20MHz)_Body_Right side_CH 26140_QPSK_1-0_0mm

Communication System: LTE; Frequency: 1860 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1860$ MHz; $\sigma = 1.415$ S/m; $\epsilon_r = 39.072$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 21.4°C; Liquid temperature: 22.0°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(8.23, 8.23, 8.23); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (51x111x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.262 W/kg

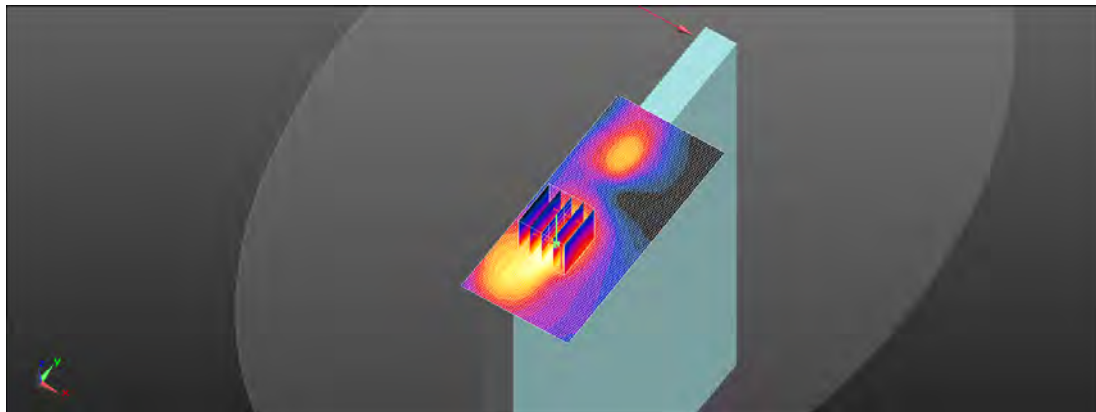
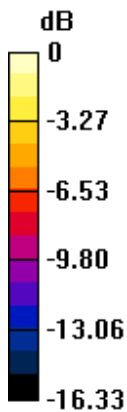
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.372 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.331 W/kg

SAR(1 g) = 0.173 W/kg; SAR(10 g) = 0.089 W/kg

Maximum value of SAR (measured) = 0.259 W/kg



0 dB = 0.259 W/kg = -5.87 dBW/kg

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Date: 2019/12/17

LTE Band 26 (15MHz)_Body_Right side_CH 26965_QPSK_1-0_0mm

Communication System: LTE; Frequency: 841.5 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 841.5 \text{ MHz}$; $\sigma = 0.895 \text{ S/m}$; $\epsilon_r = 42.783$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.9°C; Liquid temperature: 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(9.44, 9.44, 9.44); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (51x81x1): Interpolated grid: $dx=15 \text{ mm}$, $dy=15 \text{ mm}$

Maximum value of SAR (interpolated) = 0.0662 W/kg

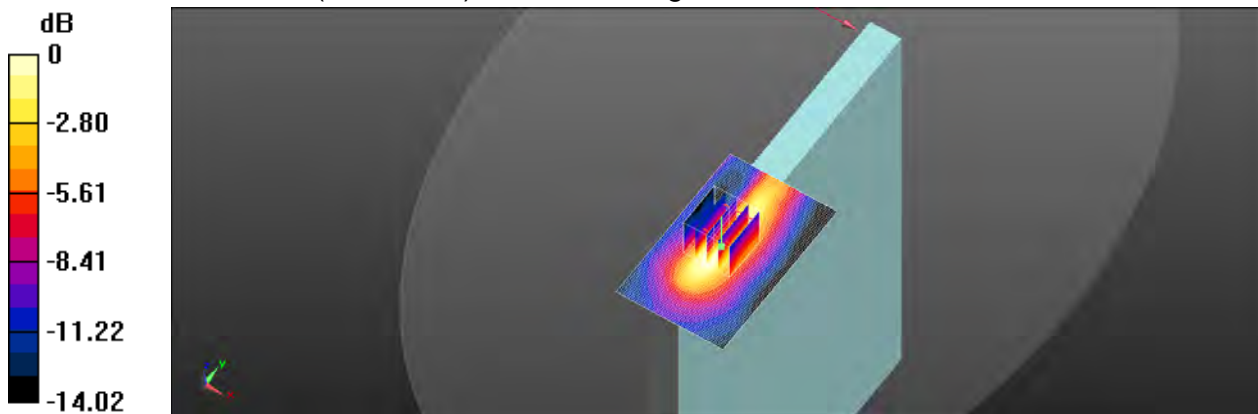
Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 3.386 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 0.0830 W/kg

SAR(1 g) = 0.044 W/kg; SAR(10 g) = 0.025 W/kg

Maximum value of SAR (measured) = 0.0595 W/kg



0 dB = 0.0595 W/kg = -12.25 dBW/kg

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Date: 2019/12/19

LTE Band 30 (10MHz)_Body_Top side_CH 27710_QPSK_1-49_0mm

Communication System: LTE; Frequency: 2310 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2310$ MHz; $\sigma = 1.661$ S/m; $\epsilon_r = 40.506$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.84, 7.84, 7.84); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (71x131x1): Interpolated grid: dx=12 mm, dy=12 mm

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

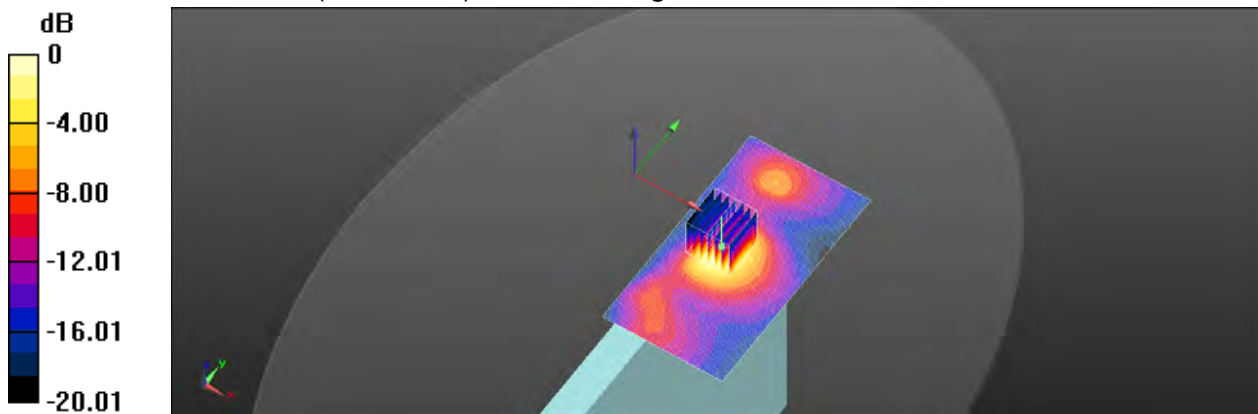
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.269 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.475 W/kg

SAR(1 g) = 0.228 W/kg; SAR(10 g) = 0.109 W/kg

Maximum value of SAR (measured) = 0.341 W/kg



0 dB = 0.341 W/kg = -4.67 dBW/kg

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Date: 2019/12/19

LTE Band 38 (20MHz)_Body_Top side_CH 37850_QPSK_1-0_0mm

Communication System: LTE; Frequency: 2580 MHz; Duty Cycle: 1:1.59956

Medium parameters used: $f = 2580$ MHz; $\sigma = 1.928$ S/m; $\epsilon_r = 37.617$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.0°C; Liquid temperature: 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.3, 7.3, 7.3); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (71x131x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.302 W/kg

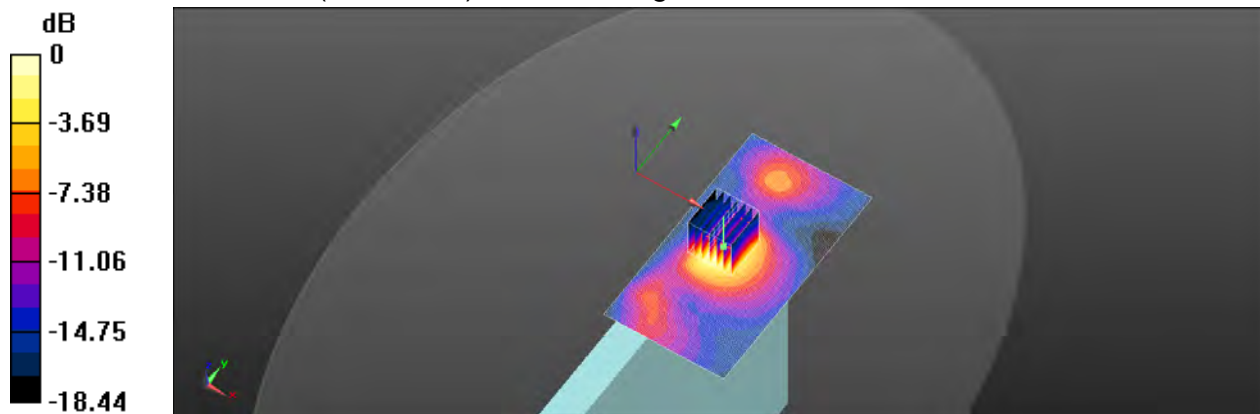
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.071 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 0.381 W/kg

SAR(1 g) = 0.185 W/kg; SAR(10 g) = 0.089 W/kg

Maximum value of SAR (measured) = 0.277 W/kg



0 dB = 0.277 W/kg = -5.58 dBW/kg

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Date: 2019/12/19

LTE Band 41 (20MHz)_Body_Top side_CH 39750_QPSK_1-0_0mm

Communication System: LTE; Frequency: 2506 MHz; Duty Cycle: 1:1.59956

Medium parameters used: $f = 2506$ MHz; $\sigma = 1.849$ S/m; $\epsilon_r = 37.923$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.0°C; Liquid temperature: 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.3, 7.3, 7.3); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (71x131x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.282 W/kg

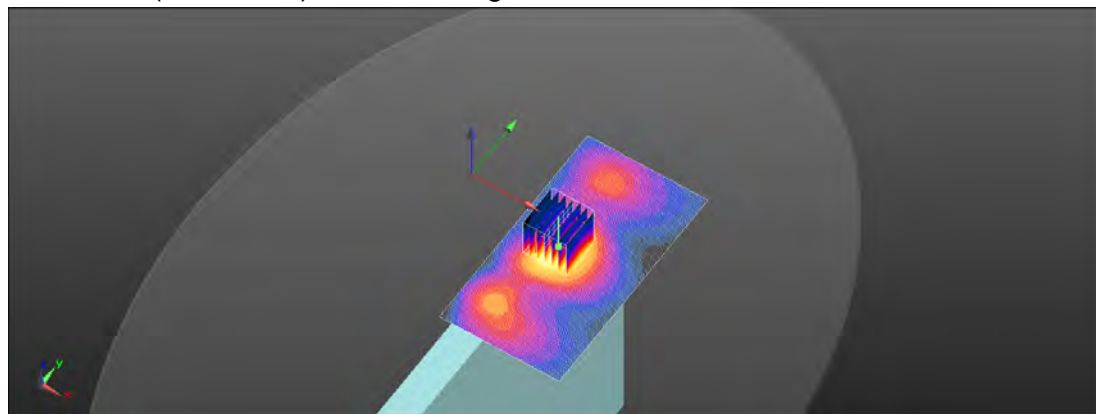
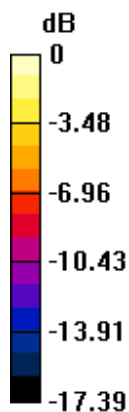
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.121 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.331 W/kg

SAR(1 g) = 0.165 W/kg; SAR(10 g) = 0.080 W/kg

Maximum value of SAR (measured) = 0.244 W/kg



0 dB = 0.244 W/kg = -6.13 dBW/kg

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Date: 2019/12/18

LTE Band 66 (20MHz)_Body_Right side_CH 132572_QPSK_1-0_0mm

Communication System: LTE; Frequency: 1770 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1770$ MHz; $\sigma = 1.341$ S/m; $\epsilon_r = 39.357$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(8.44, 8.44, 8.44); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (51x111x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.785 W/kg

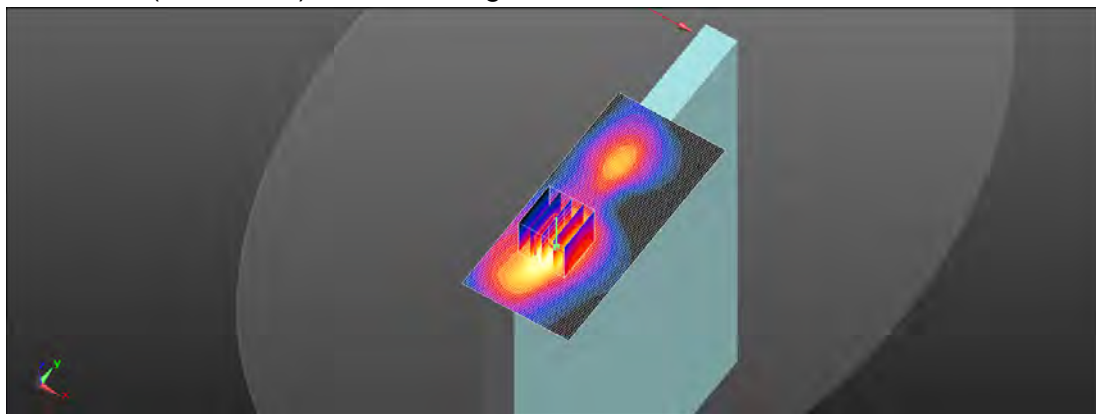
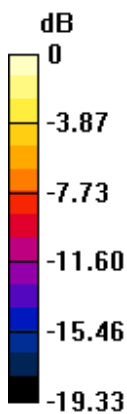
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.02 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.987 W/kg

SAR(1 g) = 0.545 W/kg; SAR(10 g) = 0.277 W/kg

Maximum value of SAR (measured) = 0.785 W/kg



0 dB = 0.785 W/kg = -1.05 dBW/kg

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Date: 2019/12/12

WLAN 802.11b_Body_Top side_CH 2_Tx1_0mm

Communication System: WLAN 2.45G; Frequency: 2417 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2417$ MHz; $\sigma = 1.82$ S/m; $\epsilon_r = 37.706$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.0°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.48, 7.48, 7.48); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (51x131x1): Interpolated grid: dx=12 mm, dy=12 mm

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

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

Reference Value = 9.462 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 2.99 W/kg

SAR(1 g) = 1.14 W/kg; SAR(10 g) = 0.508 W/kg

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

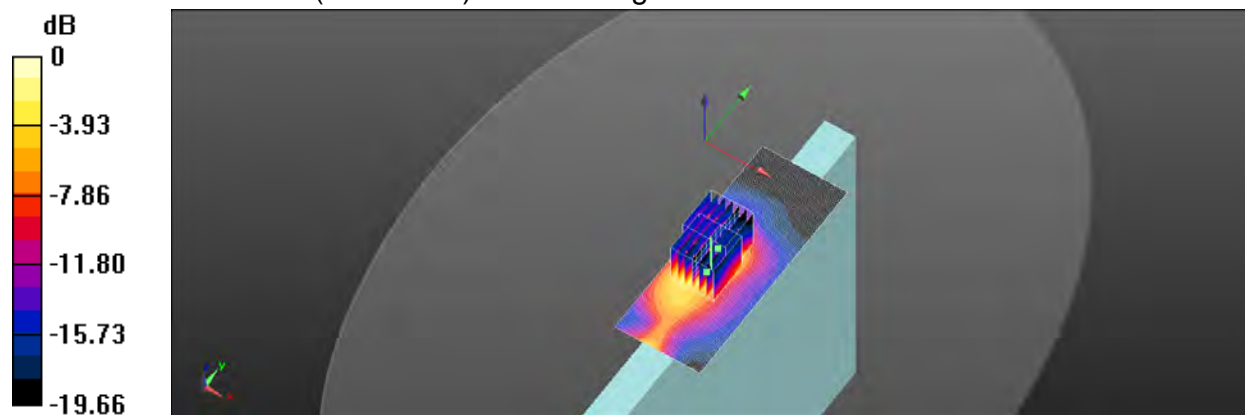
Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.462 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 2.88 W/kg

SAR(1 g) = 1.16 W/kg; SAR(10 g) = 0.559 W/kg

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



0 dB = 1.91 W/kg = 2.81 dBW/kg

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Date: 2019/12/13

WLAN 802.11ac(80M) 5.2G_Body_Top side_CH 42_Tx1_0mm

Communication System: WLAN 5G; Frequency: 5210 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5210 \text{ MHz}$; $\sigma = 4.517 \text{ S/m}$; $\epsilon_r = 36.479$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.2°C ; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(5.3, 5.3, 5.3); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

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

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

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

Reference Value = 4.331 V/m ; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 5.75 W/kg

SAR(1 g) = 1.1 W/kg ; SAR(10 g) = 0.376 W/kg

Maximum value of SAR (measured) = 2.33 W/kg

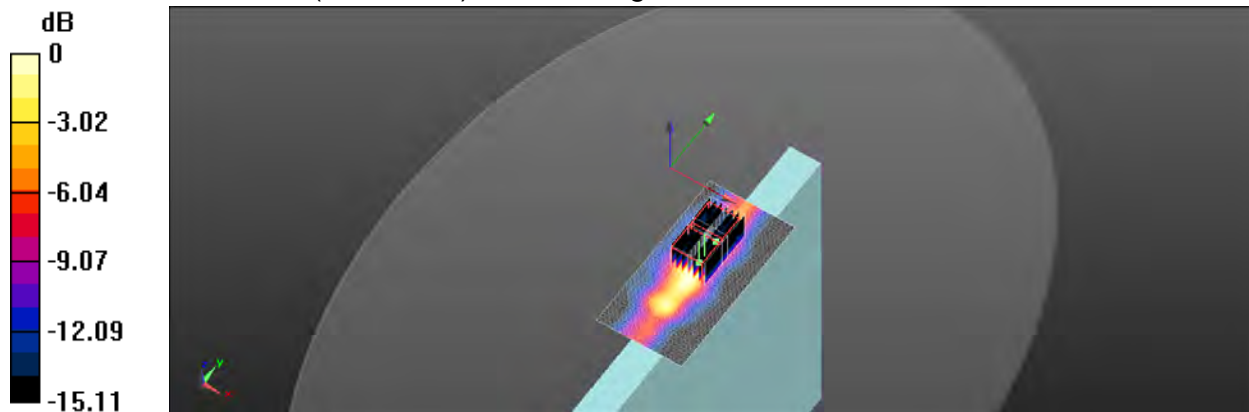
Zoom Scan (7x7x12)/Cube 1: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 4.331 V/m ; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 4.31 W/kg

SAR(1 g) = 0.842 W/kg ; SAR(10 g) = 0.318 W/kg

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



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

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Date: 2019/12/14

WLAN 802.11ac(80M) 5.3G_Body_Top side_CH 58_Tx1_0mm

Communication System: WLAN 5G; Frequency: 5290 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5290 \text{ MHz}$; $\sigma = 4.631 \text{ S/m}$; $\epsilon_r = 36.221$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.8°C ; Liquid temperature: 22.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(5.3, 5.3, 5.3); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

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

Maximum value of SAR (interpolated) = 2.09 W/kg

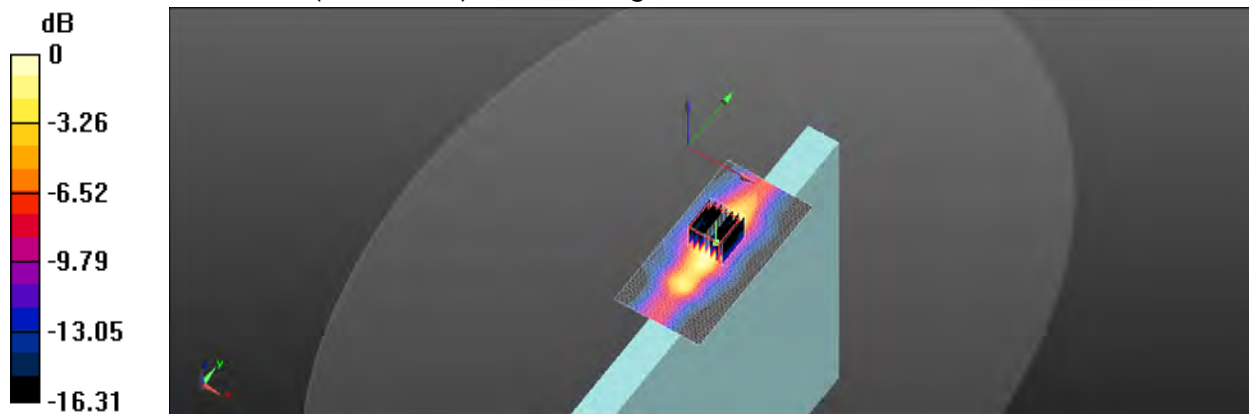
Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 3.788 V/m ; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 5.17 W/kg

SAR(1 g) = 1.03 W/kg ; SAR(10 g) = 0.358 W/kg

Maximum value of SAR (measured) = 2.17 W/kg



$0 \text{ dB} = 2.17 \text{ W/kg} = 3.36 \text{ dBW/kg}$

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Date: 2019/12/15

WLAN 802.11ac(160M) 5.6G_Body_Top side_CH 114_Tx1_0mm

Communication System: WLAN 5G; Frequency: 5570 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5570$ MHz; $\sigma = 4.928$ S/m; $\epsilon_r = 35.153$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 21.4°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(4.82, 4.82, 4.82); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

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

Maximum value of SAR (interpolated) = 0.977 W/kg

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

Reference Value = 3.539 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 2.75 W/kg

SAR(1 g) = 0.518 W/kg; SAR(10 g) = 0.209 W/kg

Maximum value of SAR (measured) = 1.02 W/kg

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

Reference Value = 3.539 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 2.95 W/kg

SAR(1 g) = 0.429 W/kg; SAR(10 g) = 0.177 W/kg

Maximum value of SAR (measured) = 0.960 W/kg

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

Reference Value = 3.539 V/m; Power Drift = 0.17 dB

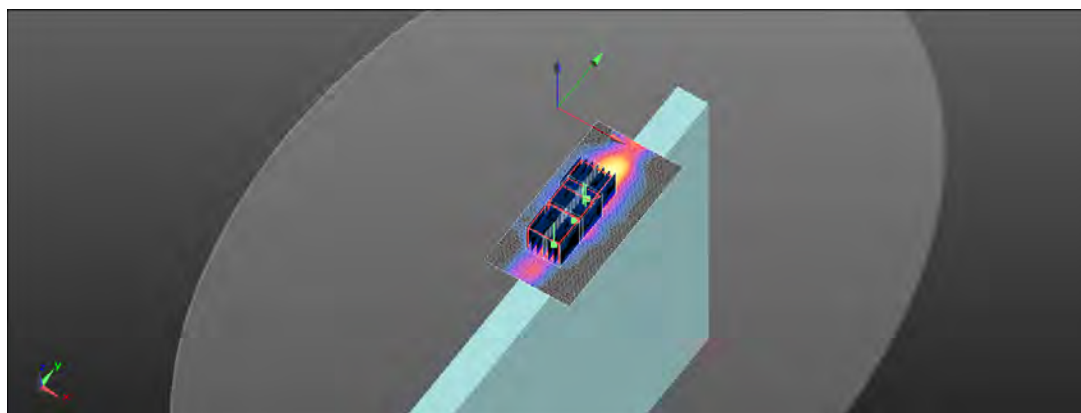
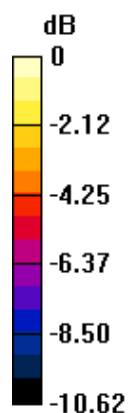
Peak SAR (extrapolated) = 1.86 W/kg

SAR(1 g) = 0.351 W/kg; SAR(10 g) = 0.141 W/kg

Maximum value of SAR (measured) = 0.687 W/kg

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0 dB = 0.687 W/kg = -1.63 dBW/kg

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Member of SGS Group

Date: 2019/12/16

WLAN 802.11ac(80M) 5.8G_Body_Top side_CH 155_Tx1_0mm

Communication System: WLAN 5G; Frequency: 5775 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5775 \text{ MHz}$; $\sigma = 5.159 \text{ S/m}$; $\epsilon_r = 34.621$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.7°C ; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(5.12, 5.12, 5.12); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

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

Maximum value of SAR (interpolated) = 1.20 W/kg

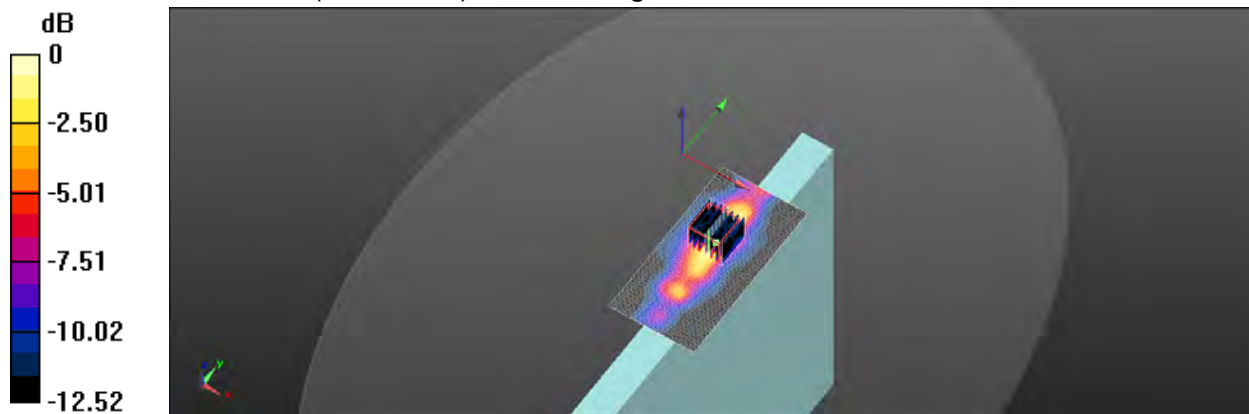
Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 3.801 V/m ; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 3.66 W/kg

SAR(1 g) = 0.612 W/kg ; SAR(10 g) = 0.242 W/kg

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



$0 \text{ dB} = 1.19 \text{ W/kg} = 0.76 \text{ dBW/kg}$

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Date: 2019/12/12

WLAN 802.11b_Body_Top side_CH 1_Tx2_0mm

Communication System: WLAN 2.45G; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2412$ MHz; $\sigma = 1.812$ S/m; $\epsilon_r = 37.77$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.0°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.48, 7.48, 7.48); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

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

Maximum value of SAR (interpolated) = 1.89 W/kg

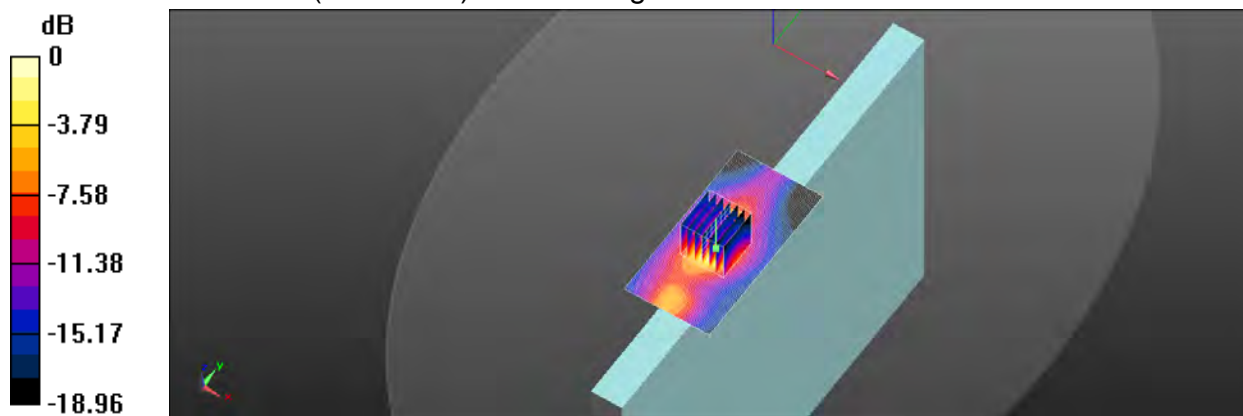
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.296 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 2.87 W/kg

SAR(1 g) = 1.17 W/kg; SAR(10 g) = 0.524 W/kg

Maximum value of SAR (measured) = 1.89 W/kg



0 dB = 1.89 W/kg = 2.76 dBW/kg

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Date: 2019/12/12

Bluetooth(GFSK)_Body_Top side_CH 78_Tx2_0mm

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

Medium parameters used: $f = 2480$ MHz; $\sigma = 1.897$ S/m; $\epsilon_r = 37.589$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.0°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.48, 7.48, 7.48); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

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

Maximum value of SAR (interpolated) = 0.285 W/kg

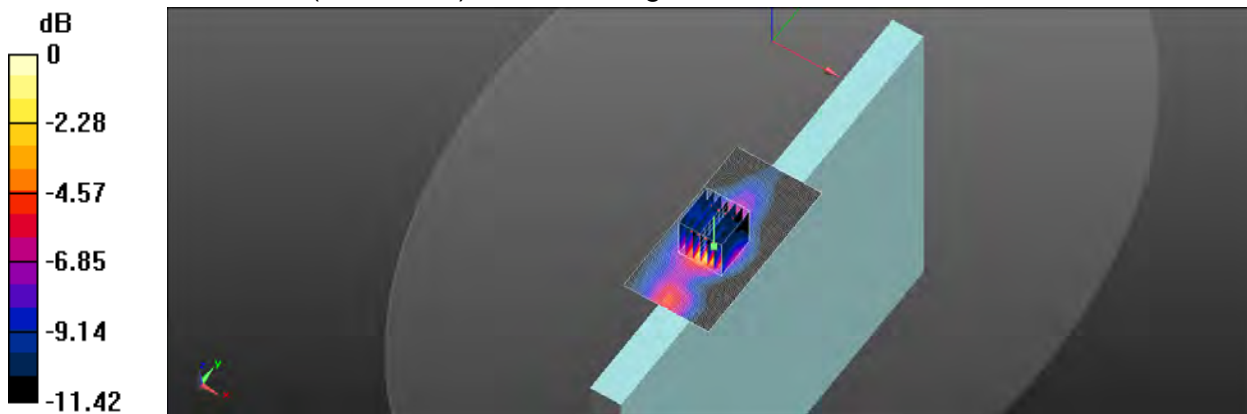
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.349 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 0.436 W/kg

SAR(1 g) = 0.177 W/kg; SAR(10 g) = 0.087 W/kg

Maximum value of SAR (measured) = 0.283 W/kg



0 dB = 0.283 W/kg = -5.48 dBW/kg

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Date: 2019/12/13

WLAN 802.11ac(80M) 5.2G_Body_Top side_CH 42_Tx2_0mm

Communication System: WLAN 5G; Frequency: 5210 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5210 \text{ MHz}$; $\sigma = 4.517 \text{ S/m}$; $\epsilon_r = 36.479$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.2°C ; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(5.3, 5.3, 5.3); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

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

Maximum value of SAR (interpolated) = 2.69 W/kg

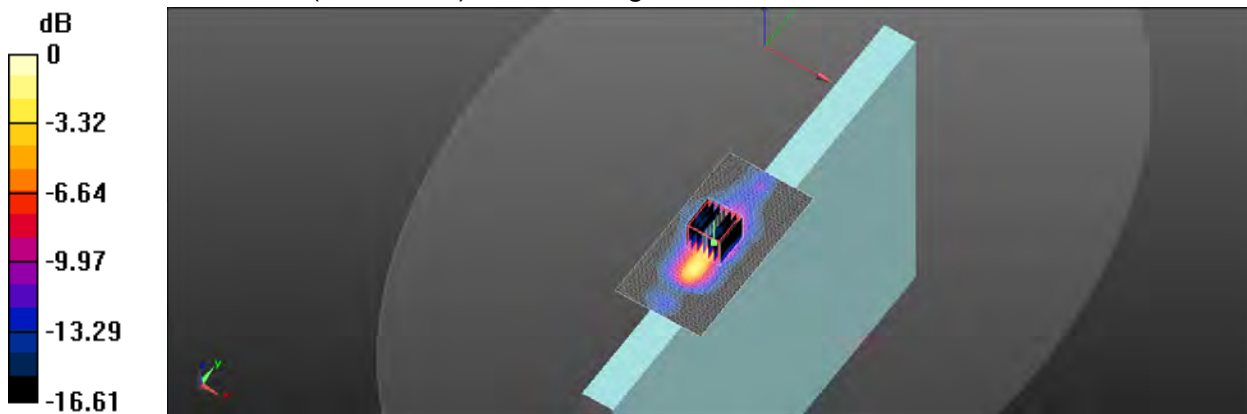
Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 4.241 V/m ; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 5.89 W/kg

SAR(1 g) = 1.19 W/kg ; SAR(10 g) = 0.368 W/kg

Maximum value of SAR (measured) = 2.59 W/kg



0 dB = 2.59 W/kg = 4.13 dBW/kg

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Date: 2019/12/14

WLAN 802.11ac(80M) 5.3G_Body_Top side_CH 58_Tx2_0mm

Communication System: WLAN 5G; Frequency: 5290 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5290 \text{ MHz}$; $\sigma = 4.631 \text{ S/m}$; $\epsilon_r = 36.221$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.8°C ; Liquid temperature: 22.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(5.3, 5.3, 5.3); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

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

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

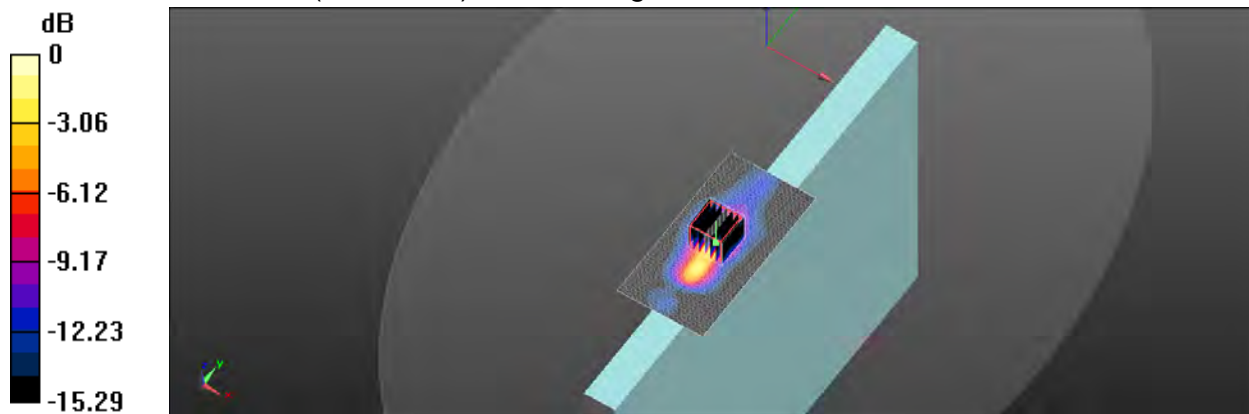
Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 4.014 V/m ; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 4.66 W/kg

SAR(1 g) = 1.01 W/kg ; SAR(10 g) = 0.323 W/kg

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



0 dB = 2.11 W/kg = 3.24 dBW/kg

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Date: 2019/12/15

WLAN 802.11ac(160M) 5.6G_Body_Top side_CH 114_Tx2_0mm

Communication System: WLAN 5G; Frequency: 5570 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5570 \text{ MHz}$; $\sigma = 4.928 \text{ S/m}$; $\epsilon_r = 35.153$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.4°C ; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(4.82, 4.82, 4.82); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

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

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

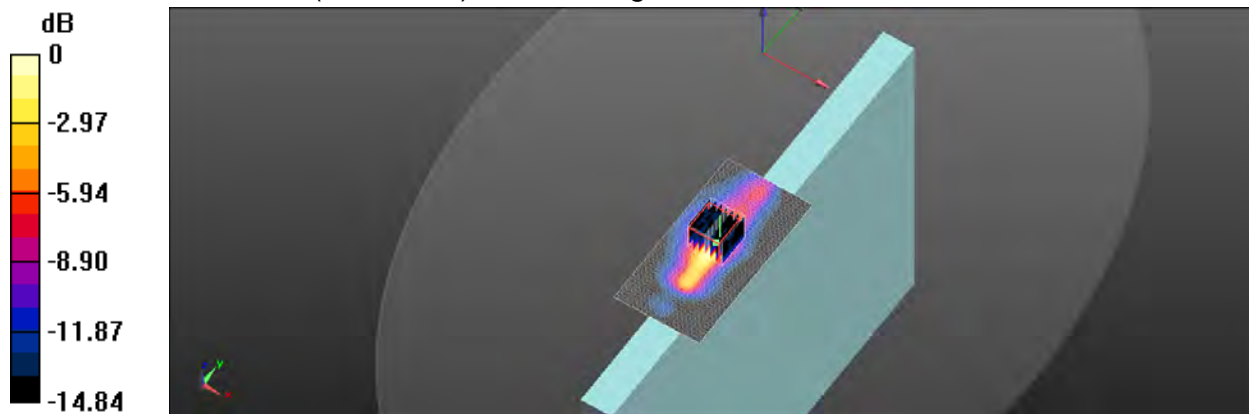
Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 4.525 V/m ; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 5.44 W/kg

SAR(1 g) = 0.910 W/kg ; SAR(10 g) = 0.336 W/kg

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



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

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Date: 2019/12/16

WLAN 802.11ac(80M) 5.8G_Body_Top side_CH 155_Tx2_0mm

Communication System: WLAN 5G; Frequency: 5775 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5775$ MHz; $\sigma = 5.159$ S/m; $\epsilon_r = 34.621$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 21.7°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(5.12, 5.12, 5.12); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

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

Maximum value of SAR (interpolated) = 2.26 W/kg

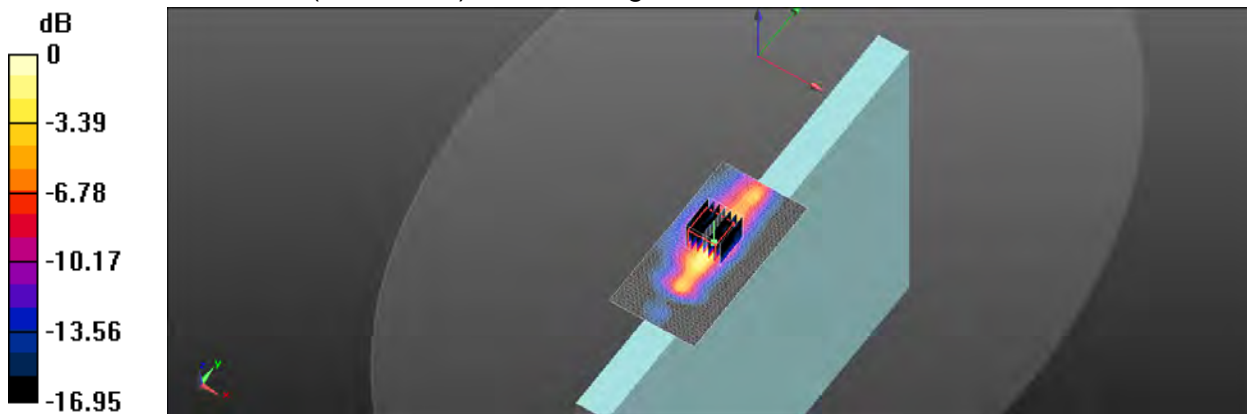
Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 4.965 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 6.29 W/kg

SAR(1 g) = 1.18 W/kg; SAR(10 g) = 0.378 W/kg

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



0 dB = 2.35 W/kg = 3.71 dBW/kg

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Date: 2019/12/12

WLAN 802.11b_Body_Bottom side_CH 2_Tx1_0mm

Communication System: WLAN 2.45G; Frequency: 2417 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2417$ MHz; $\sigma = 1.82$ S/m; $\epsilon_r = 37.706$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.0°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.48, 7.48, 7.48); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (61x121x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 1.28 W/kg

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

Reference Value = 1.527 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 1.84 W/kg

SAR(1 g) = 0.924 W/kg; SAR(10 g) = 0.492 W/kg

Maximum value of SAR (measured) = 1.29 W/kg

Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.527 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 1.82 W/kg

SAR(1 g) = 0.875 W/kg; SAR(10 g) = 0.439 W/kg

Maximum value of SAR (measured) = 1.26 W/kg

Zoom Scan (7x7x7)/Cube 2: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.527 V/m; Power Drift = 0.19 dB

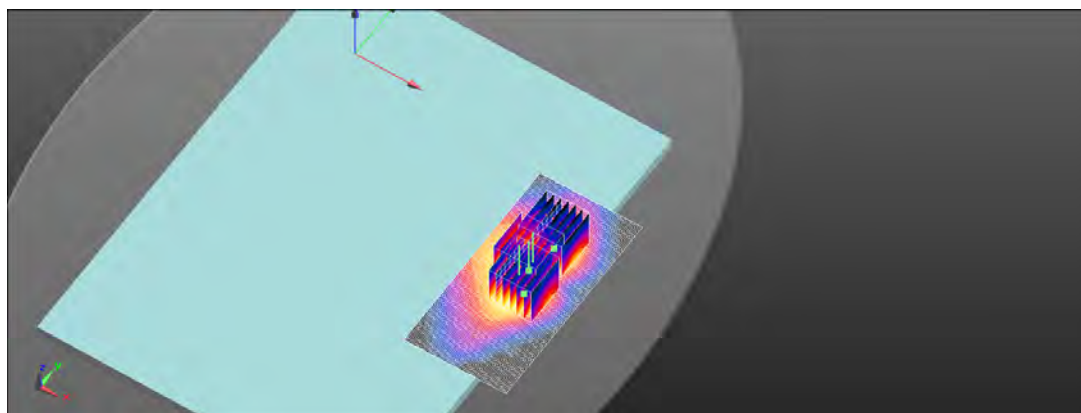
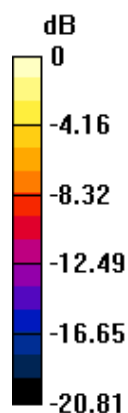
Peak SAR (extrapolated) = 1.47 W/kg

SAR(1 g) = 0.730 W/kg; SAR(10 g) = 0.337 W/kg

Maximum value of SAR (measured) = 1.16 W/kg

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0 dB = 1.16 W/kg = 0.64 dBW/kg

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Date: 2019/12/13

WLAN 802.11n(40M) 5.2G_Body_Bottom side_CH 46_Tx1_0mm

Communication System: WLAN 5G; Frequency: 5230 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5230$ MHz; $\sigma = 4.519$ S/m; $\epsilon_r = 36.332$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 21.2°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(5.3, 5.3, 5.3); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (71x151x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.76 W/kg

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

Reference Value = 1.957 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 4.18 W/kg

SAR(1 g) = 0.916 W/kg; SAR(10 g) = 0.310 W/kg

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

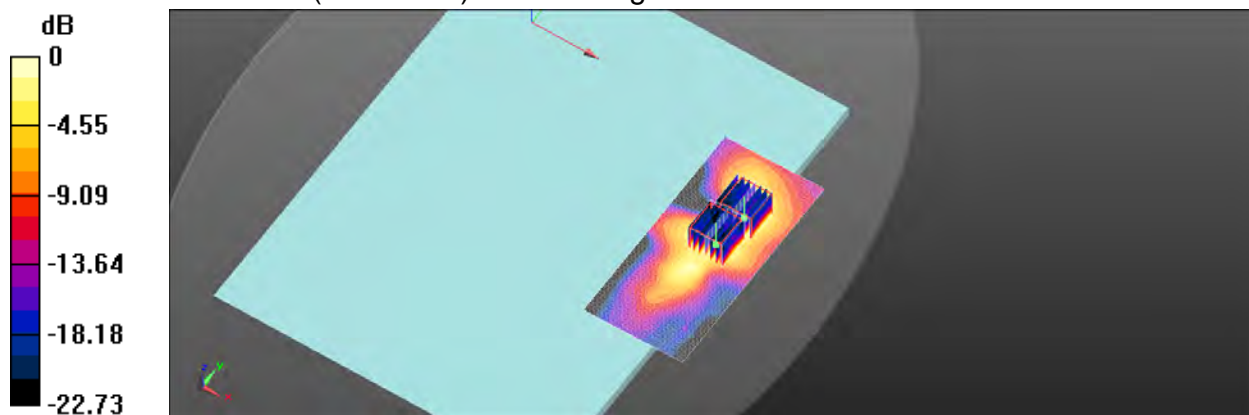
Zoom Scan (7x7x12)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.957 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 2.52 W/kg

SAR(1 g) = 0.648 W/kg; SAR(10 g) = 0.241 W/kg

Maximum value of SAR (measured) = 1.28 W/kg



0 dB = 1.28 W/kg = 1.07 dBW/kg

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SGS Taiwan Ltd.

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Member of SGS Group

Date: 2019/12/14

WLAN 802.11n(40M) 5.3G_Body_Bottom side_CH 54_Tx1_0mm

Communication System: WLAN 5G; Frequency: 5270 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5270$ MHz; $\sigma = 4.621$ S/m; $\epsilon_r = 36.229$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 21.8°C; Liquid temperature: 22.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(5.3, 5.3, 5.3); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (71x151x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 2.29 W/kg

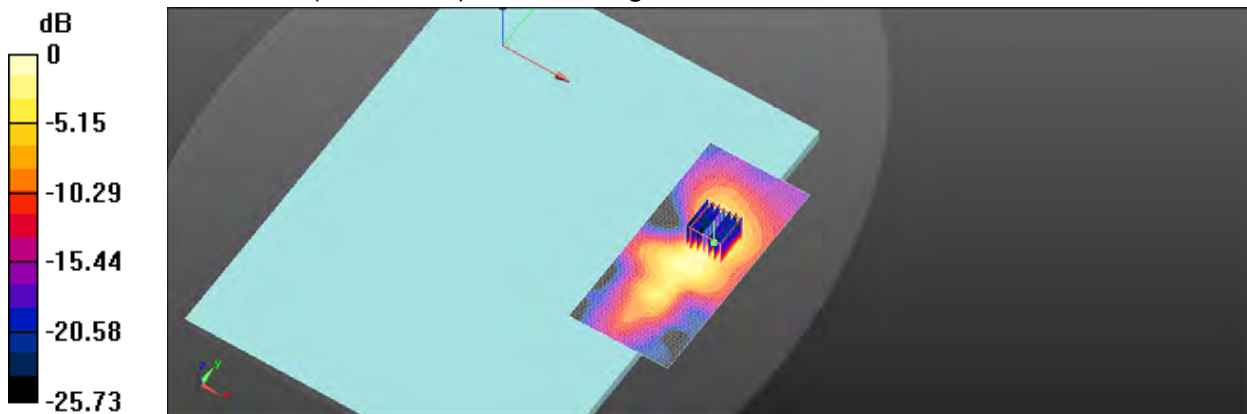
Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.541 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 4.84 W/kg

SAR(1 g) = 1.05 W/kg; SAR(10 g) = 0.352 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: 2019/12/15

WLAN 802.11ac(80M) 5.6G_Body_Bottom side_CH 106_Tx1_0mm

Communication System: WLAN 5G; Frequency: 5530 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5530 \text{ MHz}$; $\sigma = 4.901 \text{ S/m}$; $\epsilon_r = 35.534$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.4°C ; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(4.82, 4.82, 4.82); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (71x151x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 0.926 W/kg

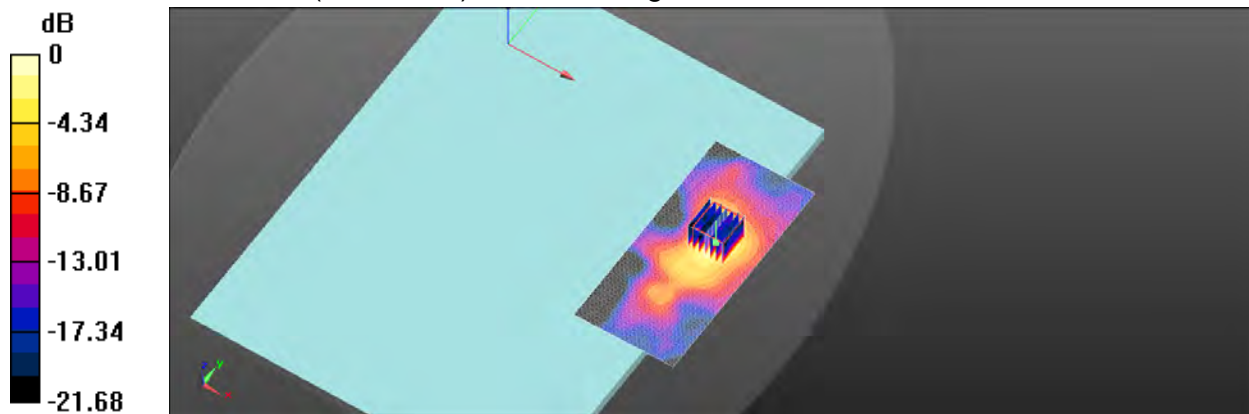
Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 4.937 V/m ; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 2.23 W/kg

SAR(1 g) = 0.475 W/kg ; SAR(10 g) = 0.167 W/kg

Maximum value of SAR (measured) = 0.951 W/kg



0 dB = 0.951 W/kg = -0.22 dBW/kg

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Date: 2019/12/16

WLAN 802.11ac(80M) 5.8G_Body_Bottom side_CH 155_Tx1_0mm

Communication System: WLAN 5G; Frequency: 5775 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5775 \text{ MHz}$; $\sigma = 5.159 \text{ S/m}$; $\epsilon_r = 34.621$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.7°C ; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(5.12, 5.12, 5.12); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (71x151x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 0.838 W/kg

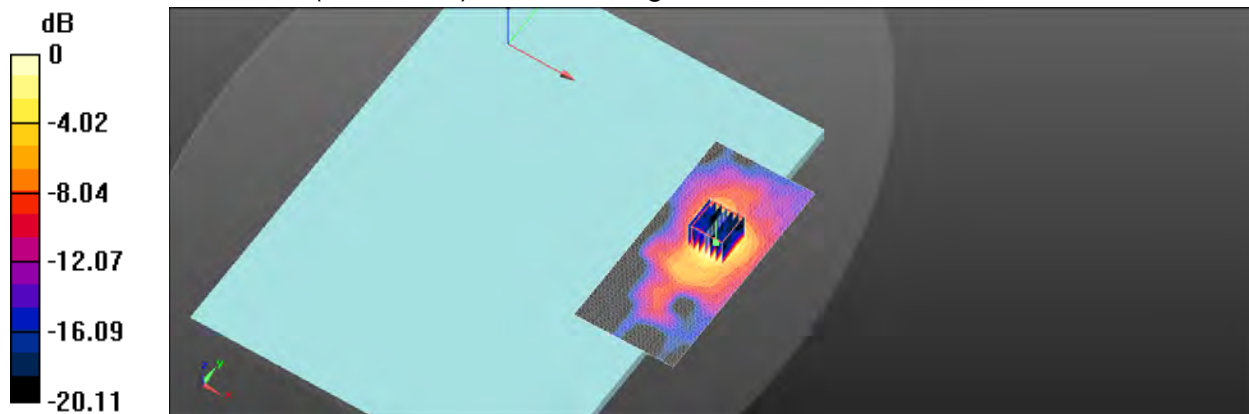
Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 1.063 V/m ; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 2.28 W/kg

SAR(1 g) = 0.451 W/kg ; SAR(10 g) = 0.167 W/kg

Maximum value of SAR (measured) = 0.873 W/kg



0 dB = 0.873 W/kg = -0.59 dBW/kg

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Date: 2019/12/12

WLAN 802.11b_Body_Bottom side_CH 6_Tx2_0mm

Communication System: WLAN 2.45G; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.848$ S/m; $\epsilon_r = 37.656$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.0°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.48, 7.48, 7.48); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (61x121x1): Interpolated grid: dx=12 mm, dy=12 mm

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

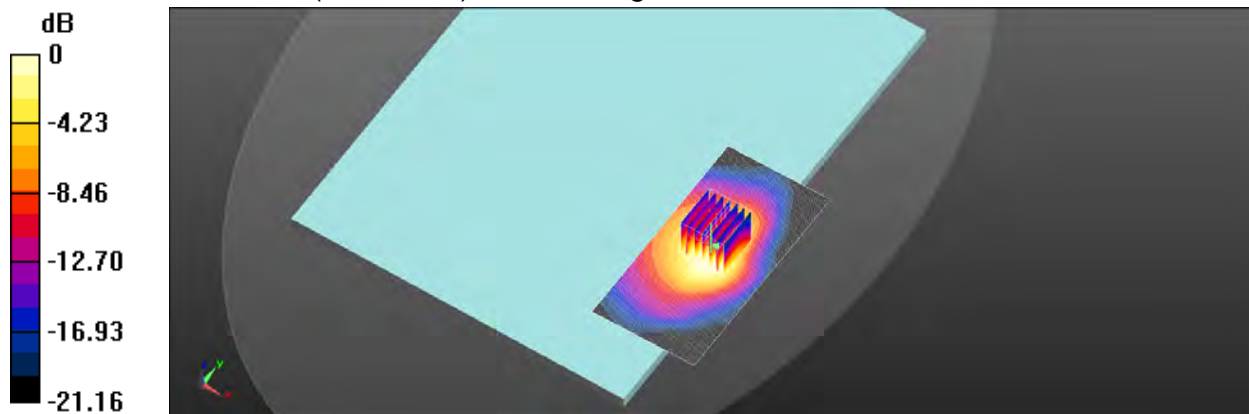
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.272 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 1.55 W/kg

SAR(1 g) = 0.852 W/kg; SAR(10 g) = 0.456 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: 2019/12/12

Bluetooth(GFSK)_Body_Bottom side_CH 78_Tx2_0mm

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

Medium parameters used: $f = 2480$ MHz; $\sigma = 1.897$ S/m; $\epsilon_r = 37.589$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.0°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.48, 7.48, 7.48); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (61x121x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.126 W/kg

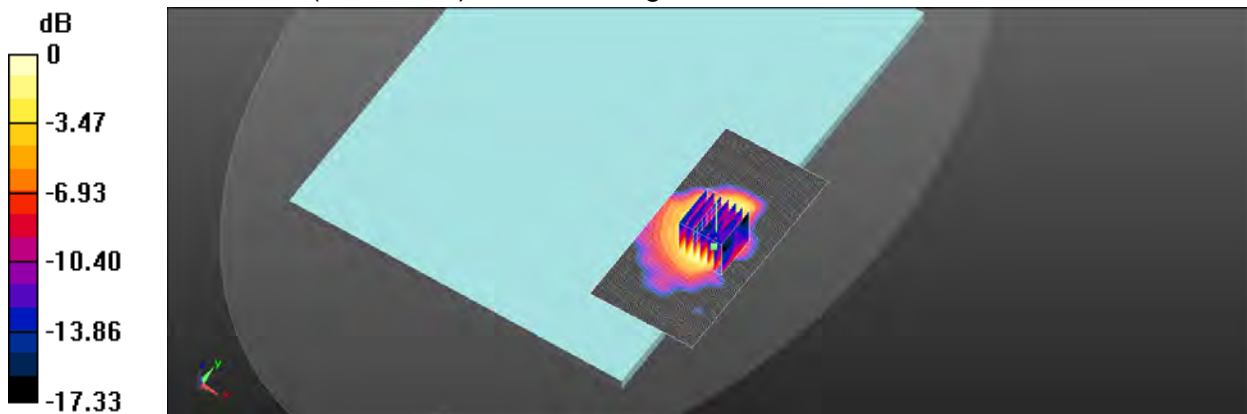
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.122 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 0.156 W/kg

SAR(1 g) = 0.082 W/kg; SAR(10 g) = 0.043 W/kg

Maximum value of SAR (measured) = 0.116 W/kg



0 dB = 0.116 W/kg = -9.36 dBW/kg

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Date: 2019/12/13

WLAN 802.11ac(80M) 5.2G_Body_Bottom side_CH 42_Tx2_0mm

Communication System: WLAN 5G; Frequency: 5210 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5210 \text{ MHz}$; $\sigma = 4.517 \text{ S/m}$; $\epsilon_r = 36.479$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.2°C ; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(5.3, 5.3, 5.3); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (71x151x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 1.93 W/kg

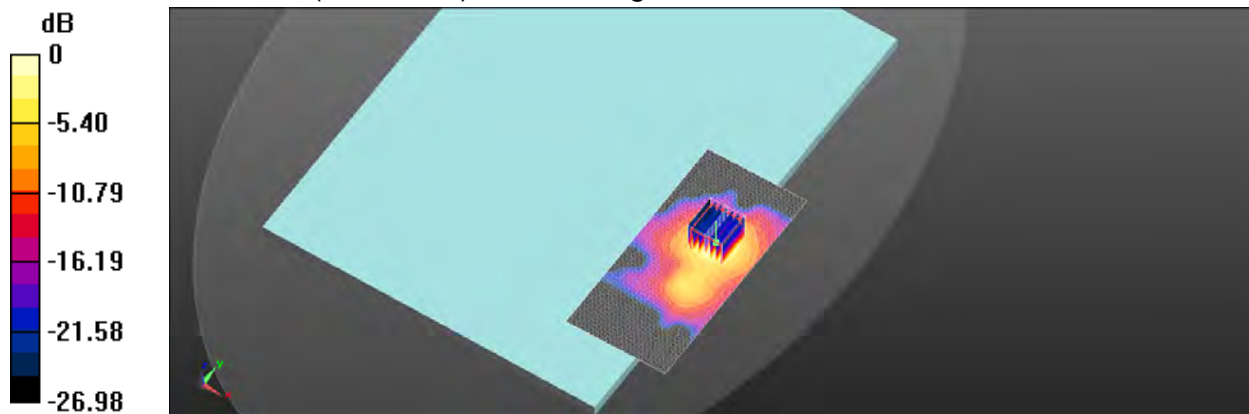
Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 1.890 V/m ; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 3.91 W/kg

SAR(1 g) = 0.934 W/kg ; SAR(10 g) = 0.314 W/kg

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



0 dB = $1.88 \text{ W/kg} = 2.74 \text{ dBW/kg}$

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Date: 2019/12/14

WLAN 802.11ac(80M) 5.3G_Body_Bottom side_CH 58_Tx2_0mm

Communication System: WLAN 5G; Frequency: 5290 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5290$ MHz; $\sigma = 4.631$ S/m; $\epsilon_r = 36.221$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 21.8°C; Liquid temperature: 22.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(5.3, 5.3, 5.3); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (71x151x1): Interpolated grid: dx=10 mm, dy=10 mm

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

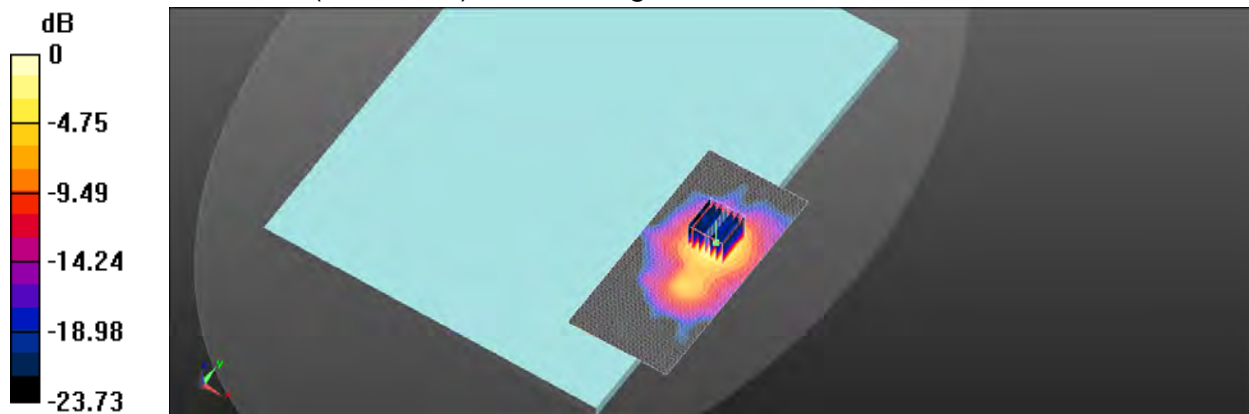
Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 6.250 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 3.32 W/kg

SAR(1 g) = 0.772 W/kg; SAR(10 g) = 0.259 W/kg

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



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

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Date: 2019/12/15

WLAN 802.11ac(80M) 5.6G_Body_Bottom side_CH 106_Tx2_0mm

Communication System: WLAN 5G; Frequency: 5530 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5530$ MHz; $\sigma = 4.901$ S/m; $\epsilon_r = 35.534$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 21.4°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(4.82, 4.82, 4.82); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (71x151x1): Interpolated grid: dx=10 mm, dy=10 mm

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

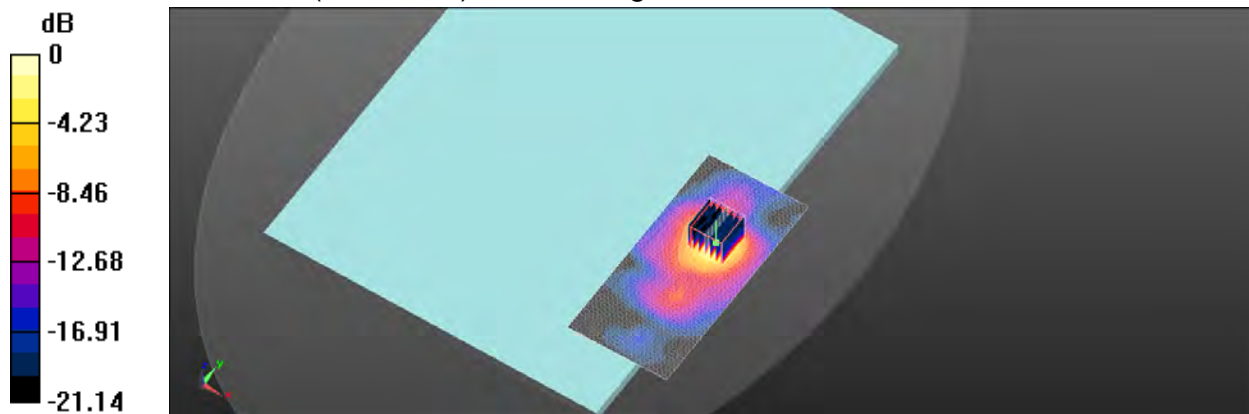
Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.315 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 3.37 W/kg

SAR(1 g) = 0.731 W/kg; SAR(10 g) = 0.247 W/kg

Maximum value of SAR (measured) = 1.47 W/kg



0 dB = 1.47 W/kg = 1.67 dBW/kg

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Member of SGS Group

Date: 2019/12/16

WLAN 802.11ac(80M) 5.8G_Body_Bottom side_CH 155_Tx2_0mm

Communication System: WLAN 5G; Frequency: 5775 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5775 \text{ MHz}$; $\sigma = 5.159 \text{ S/m}$; $\epsilon_r = 34.621$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.7°C ; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(5.12, 5.12, 5.12); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (71x151x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

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

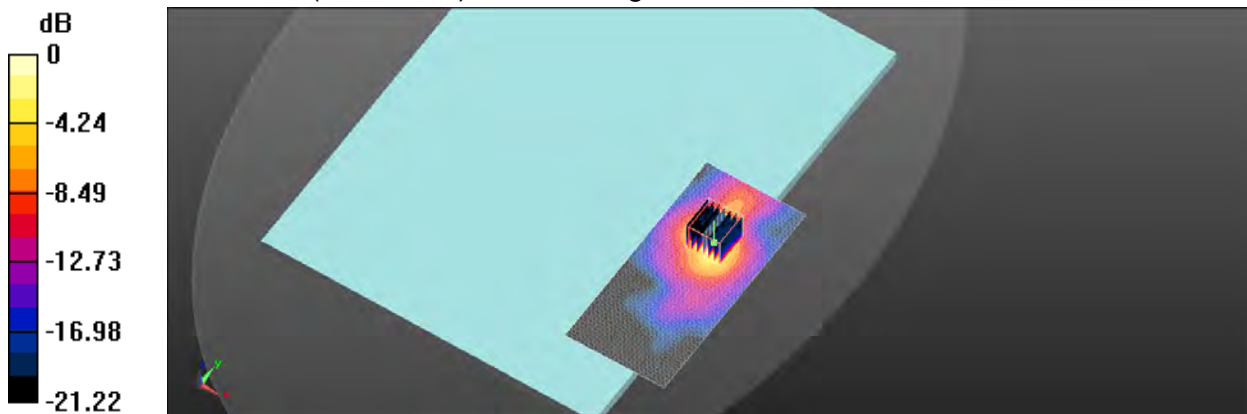
Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 1.586 V/m ; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 3.93 W/kg

SAR(1 g) = 0.806 W/kg ; SAR(10 g) = 0.263 W/kg

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



0 dB = $1.68 \text{ W/kg} = 2.25 \text{ dBW/kg}$

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Member of SGS Group

Date: 2019/12/12

WLAN 802.11n(20M)_Body_Top side_CH 6_Tx1_0mm

Communication System: WLAN 2.45G; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.848$ S/m; $\epsilon_r = 37.656$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.0°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.48, 7.48, 7.48); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (51x131x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.596 W/kg

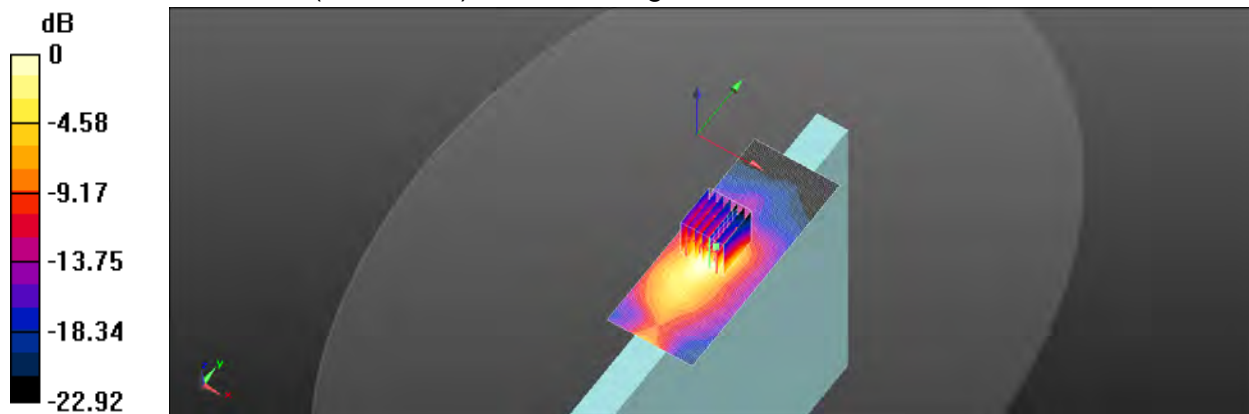
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.114 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.920 W/kg

SAR(1 g) = 0.368 W/kg; SAR(10 g) = 0.179 W/kg

Maximum value of SAR (measured) = 0.583 W/kg



0 dB = 0.583 W/kg = -2.34 dBW/kg

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Date: 2019/12/13

WLAN 802.11ac(80M) 5.2G_Body_Top side_CH 42_Tx1_0mm

Communication System: WLAN 5G; Frequency: 5210 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5210 \text{ MHz}$; $\sigma = 4.517 \text{ S/m}$; $\epsilon_r = 36.479$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.2°C ; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(5.3, 5.3, 5.3); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (61x151x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 0.643 W/kg

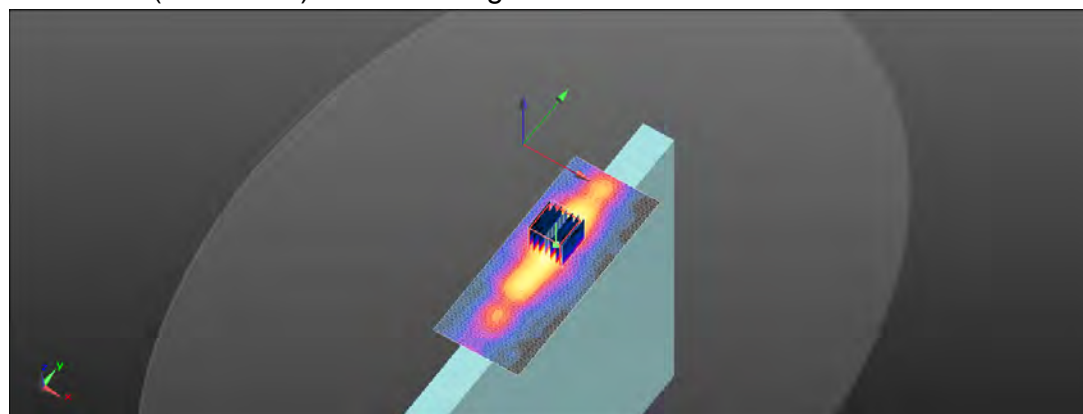
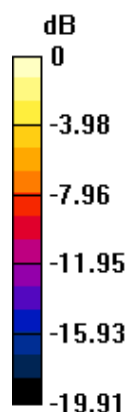
Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 2.491 V/m ; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.72 W/kg

SAR(1 g) = 0.319 W/kg ; SAR(10 g) = 0.104 W/kg

Maximum value of SAR (measured) = 0.704 W/kg



$0 \text{ dB} = 0.704 \text{ W/kg} = -1.52 \text{ dBW/kg}$

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Date: 2019/12/14

WLAN 802.11ac(80M) 5.3G_Body_Top side_CH 58_Tx1_0mm

Communication System: WLAN 5G; Frequency: 5290 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5290$ MHz; $\sigma = 4.631$ S/m; $\epsilon_r = 36.221$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 21.8°C; Liquid temperature: 22.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(5.3, 5.3, 5.3); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (61x151x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.741 W/kg

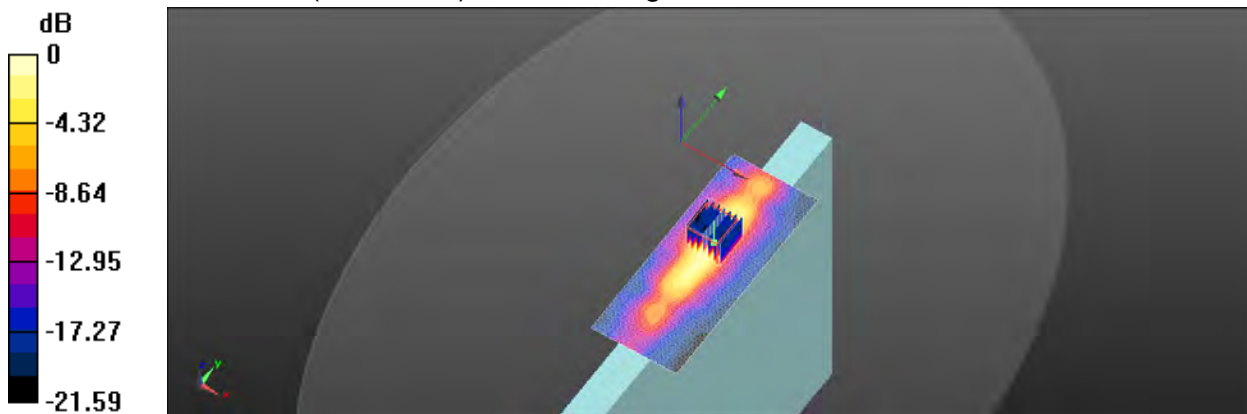
Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.126 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 1.97 W/kg

SAR(1 g) = 0.375 W/kg; SAR(10 g) = 0.123 W/kg

Maximum value of SAR (measured) = 0.799 W/kg



0 dB = 0.799 W/kg = -0.97 dBW/kg

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Date: 2019/12/15

WLAN 802.11ac(160M) 5.6G_Body_Top side_CH 114_Tx1_0mm

Communication System: WLAN 5G; Frequency: 5570 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5570 \text{ MHz}$; $\sigma = 4.928 \text{ S/m}$; $\epsilon_r = 35.153$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.4°C ; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(4.82, 4.82, 4.82); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (61x151x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 0.527 W/kg

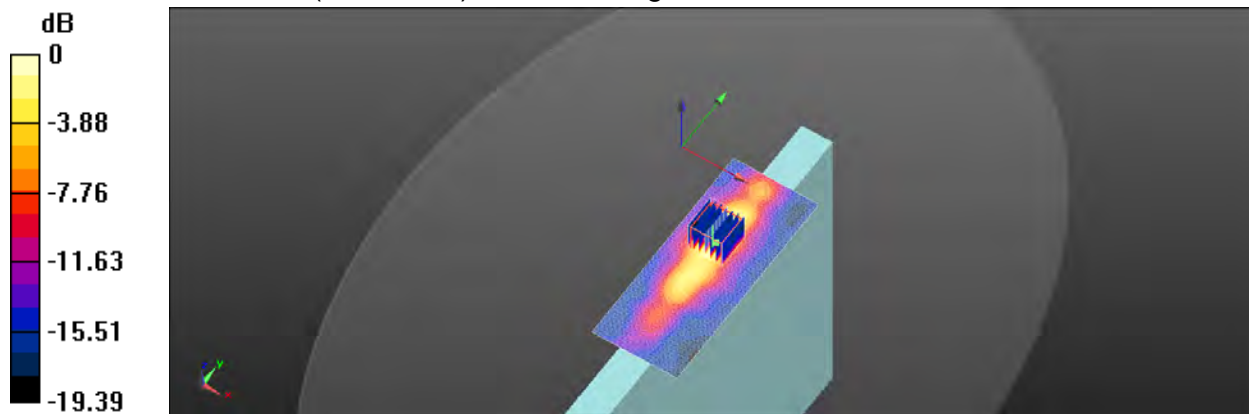
Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 2.063 V/m ; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 1.33 W/kg

SAR(1 g) = 0.252 W/kg ; SAR(10 g) = 0.088 W/kg

Maximum value of SAR (measured) = 0.534 W/kg



$0 \text{ dB} = 0.534 \text{ W/kg} = -2.72 \text{ dBW/kg}$

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Date: 2019/12/16

WLAN 802.11ac(80M) 5.8G_Body_Top side_CH 155_Tx1_0mm

Communication System: WLAN 5G; Frequency: 5775 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5775 \text{ MHz}$; $\sigma = 5.159 \text{ S/m}$; $\epsilon_r = 34.621$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.7°C ; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(5.12, 5.12, 5.12); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (61x151x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 0.614 W/kg

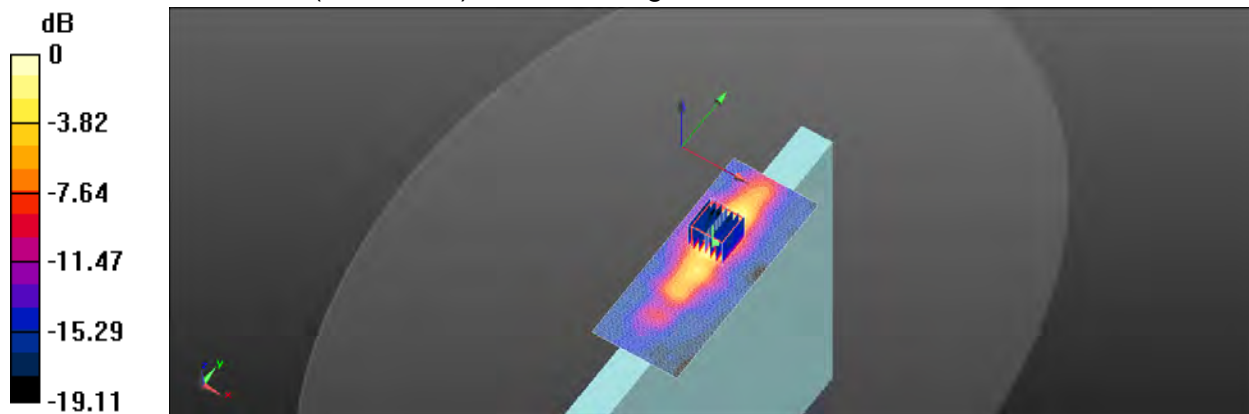
Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 1.937 V/m ; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 1.55 W/kg

SAR(1 g) = 0.272 W/kg ; SAR(10 g) = 0.094 W/kg

Maximum value of SAR (measured) = 0.584 W/kg



$0 \text{ dB} = 0.584 \text{ W/kg} = -2.34 \text{ dBW/kg}$

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Date: 2019/12/12

WLAN 802.11n(20M)_Body_Top side_CH 10_Tx2_0mm

Communication System: WLAN 2.45G; Frequency: 2457 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2457$ MHz; $\sigma = 1.871$ S/m; $\epsilon_r = 37.611$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.0°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.48, 7.48, 7.48); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

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

Maximum value of SAR (interpolated) = 0.938 W/kg

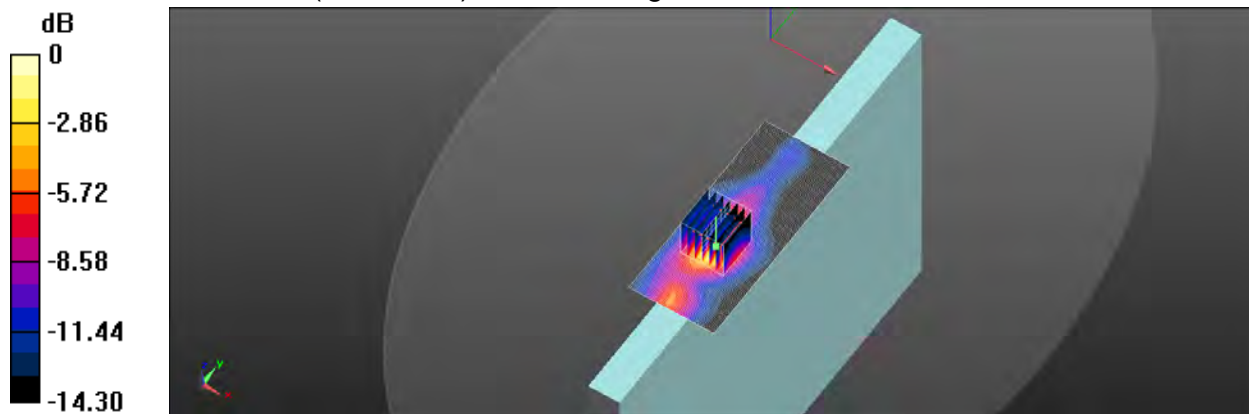
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.121 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 1.43 W/kg

SAR(1 g) = 0.570 W/kg; SAR(10 g) = 0.262 W/kg

Maximum value of SAR (measured) = 0.915 W/kg



0 dB = 0.915 W/kg = -0.39 dBW/kg

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Date: 2019/12/13

WLAN 802.11ac(80M) 5.2G_Body_Top side_CH 42_Tx2_0mm

Communication System: WLAN 5G; Frequency: 5210 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5210 \text{ MHz}$; $\sigma = 4.517 \text{ S/m}$; $\epsilon_r = 36.479$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.2°C ; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(5.3, 5.3, 5.3); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (61x151x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 1.05 W/kg

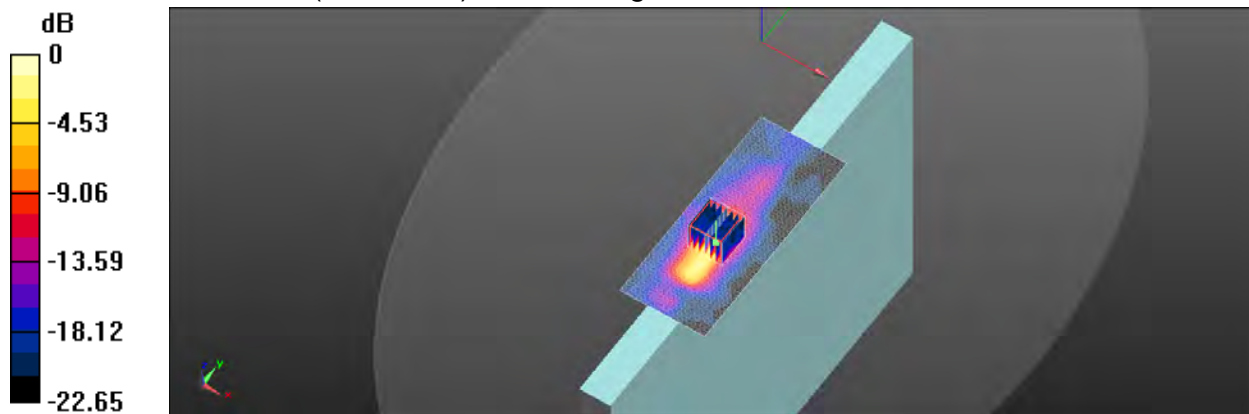
Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 2.373 V/m ; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 2.30 W/kg

SAR(1 g) = 0.499 W/kg ; SAR(10 g) = 0.142 W/kg

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



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

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Date: 2019/12/14

WLAN 802.11ac(80M) 5.3G_Body_Top side_CH 58_Tx2_0mm

Communication System: WLAN 5G; Frequency: 5290 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5290 \text{ MHz}$; $\sigma = 4.631 \text{ S/m}$; $\epsilon_r = 36.221$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.8°C ; Liquid temperature: 22.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(5.3, 5.3, 5.3); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (61x151x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 0.900 W/kg

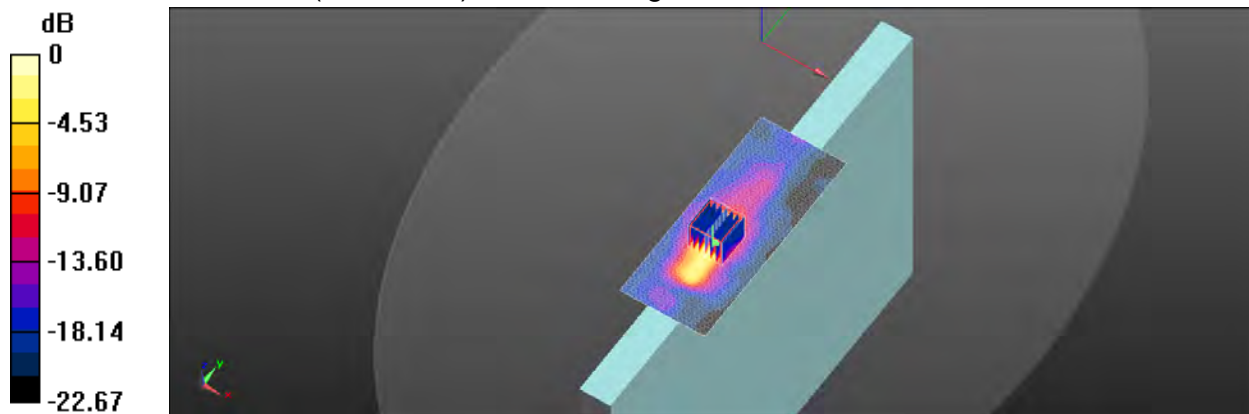
Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 2.218 V/m ; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 2.11 W/kg

SAR(1 g) = 0.443 W/kg ; SAR(10 g) = 0.130 W/kg

Maximum value of SAR (measured) = 0.929 W/kg



$0 \text{ dB} = 0.929 \text{ W/kg} = -0.32 \text{ dBW/kg}$

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Date: 2019/12/15

WLAN 802.11ac(160M) 5.6G_Body_Top side_CH 114_Tx2_0mm

Communication System: WLAN 5G; Frequency: 5570 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5570$ MHz; $\sigma = 4.928$ S/m; $\epsilon_r = 35.153$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 21.4°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(4.82, 4.82, 4.82); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (61x151x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.857 W/kg

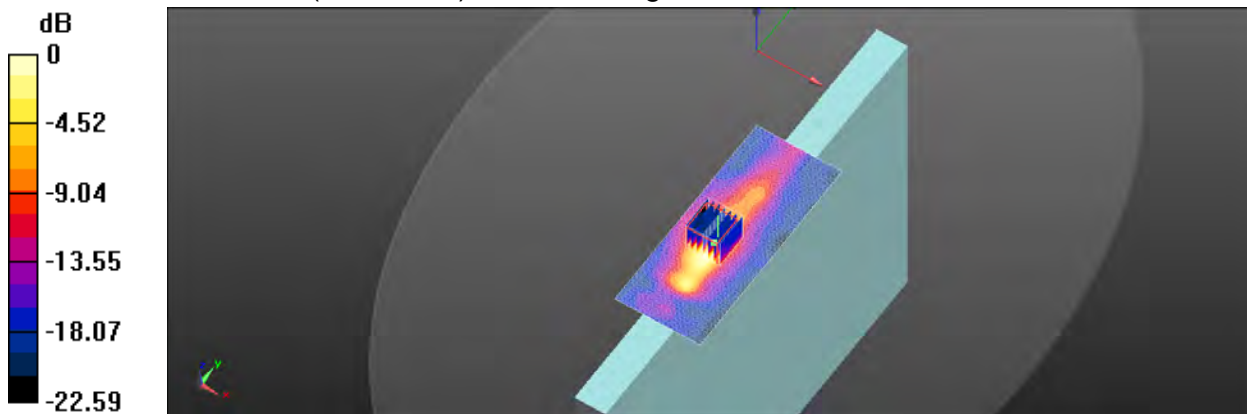
Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.987 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 2.51 W/kg

SAR(1 g) = 0.426 W/kg; SAR(10 g) = 0.139 W/kg

Maximum value of SAR (measured) = 0.960 W/kg



0 dB = 0.960 W/kg = -0.18 dBW/kg

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Date: 2019/12/16

WLAN 802.11ac(80M) 5.8G_Body_Top side_CH 155_Tx2_0mm

Communication System: WLAN 5G; Frequency: 5775 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5775 \text{ MHz}$; $\sigma = 5.159 \text{ S/m}$; $\epsilon_r = 34.621$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.7°C ; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(5.12, 5.12, 5.12); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (61x151x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 0.773 W/kg

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

Reference Value = 2.991 V/m ; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 2.99 W/kg

SAR(1 g) = 0.483 W/kg ; SAR(10 g) = 0.206 W/kg

Maximum value of SAR (measured) = 0.970 W/kg

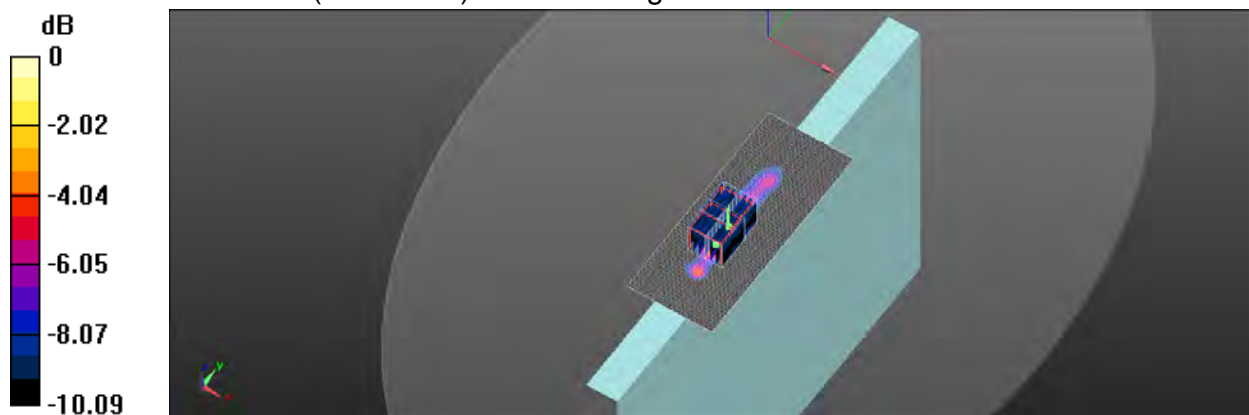
Zoom Scan (7x7x12)/Cube 1: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 2.991 V/m ; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 3.08 W/kg

SAR(1 g) = 0.389 W/kg ; SAR(10 g) = 0.182 W/kg

Maximum value of SAR (measured) = 0.904 W/kg



0 dB = 0.904 W/kg = -0.44 dBW/kg

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Date: 2019/12/12

WLAN 802.11n(20M)_Body_Bottom side_CH 6_Tx1_0mm

Communication System: WLAN 2.45G; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.848$ S/m; $\epsilon_r = 37.656$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.0°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.48, 7.48, 7.48); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (61x121x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.354 W/kg

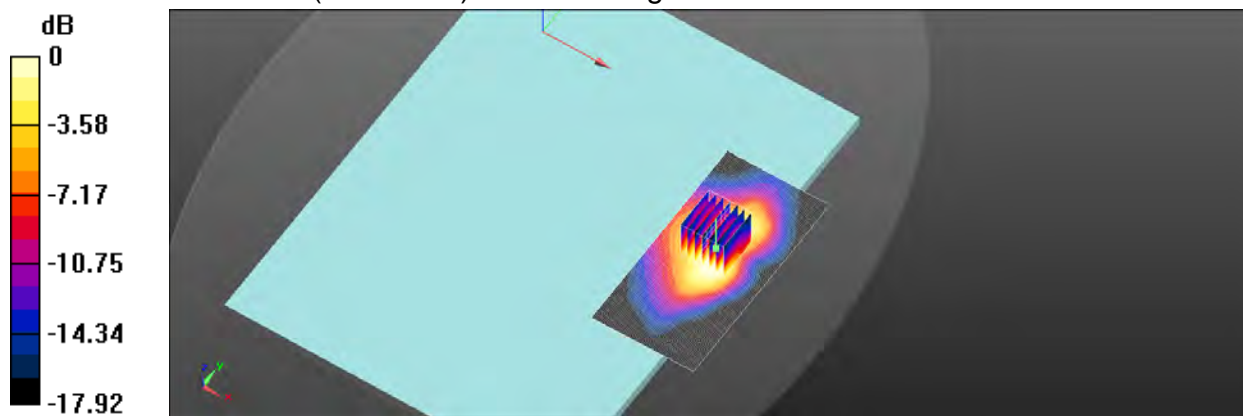
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.372 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.462 W/kg

SAR(1 g) = 0.249 W/kg; SAR(10 g) = 0.132 W/kg

Maximum value of SAR (measured) = 0.350 W/kg



0 dB = 0.350 W/kg = -4.56 dBW/kg

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Date: 2019/12/13

WLAN 802.11n(40M) 5.2G_Body_Bottom side_CH 46_Tx1_0mm

Communication System: WLAN 5G; Frequency: 5230 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5230 \text{ MHz}$; $\sigma = 4.519 \text{ S/m}$; $\epsilon_r = 36.332$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.2°C ; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(5.3, 5.3, 5.3); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (71x151x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 0.782 W/kg

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

Reference Value = 2.832 V/m ; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 1.75 W/kg

SAR(1 g) = 0.378 W/kg ; SAR(10 g) = 0.132 W/kg

Maximum value of SAR (measured) = 0.758 W/kg

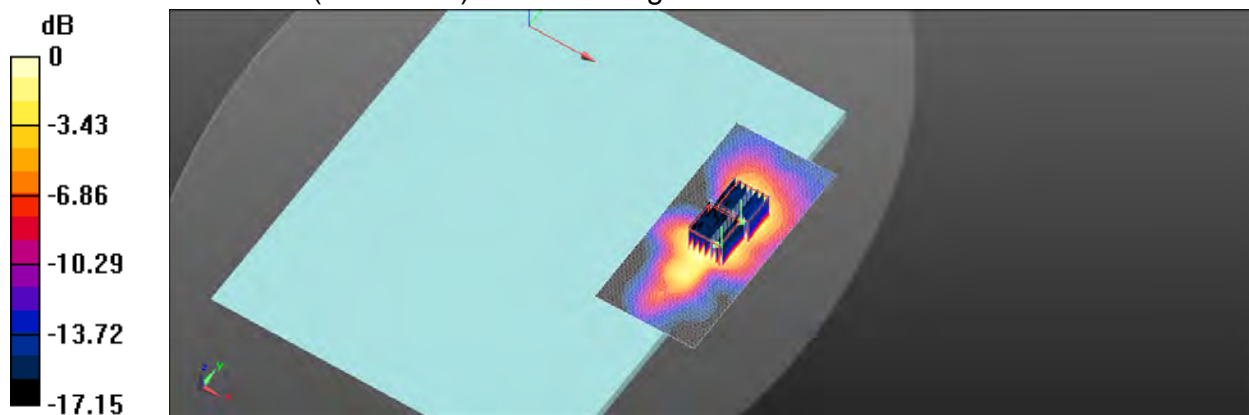
Zoom Scan (7x7x12)/Cube 1: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 2.832 V/m ; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 1.05 W/kg

SAR(1 g) = 0.274 W/kg ; SAR(10 g) = 0.105 W/kg

Maximum value of SAR (measured) = 0.530 W/kg



0 dB = 0.530 W/kg = -2.76 dBW/kg

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Date: 2019/12/14

WLAN 802.11n(40M) 5.3G_Body_Bottom side_CH 54_Tx1_0mm

Communication System: WLAN 5G; Frequency: 5270 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5270 \text{ MHz}$; $\sigma = 4.621 \text{ S/m}$; $\epsilon_r = 36.229$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.8°C ; Liquid temperature: 22.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(5.3, 5.3, 5.3); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (71x151x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 0.749 W/kg

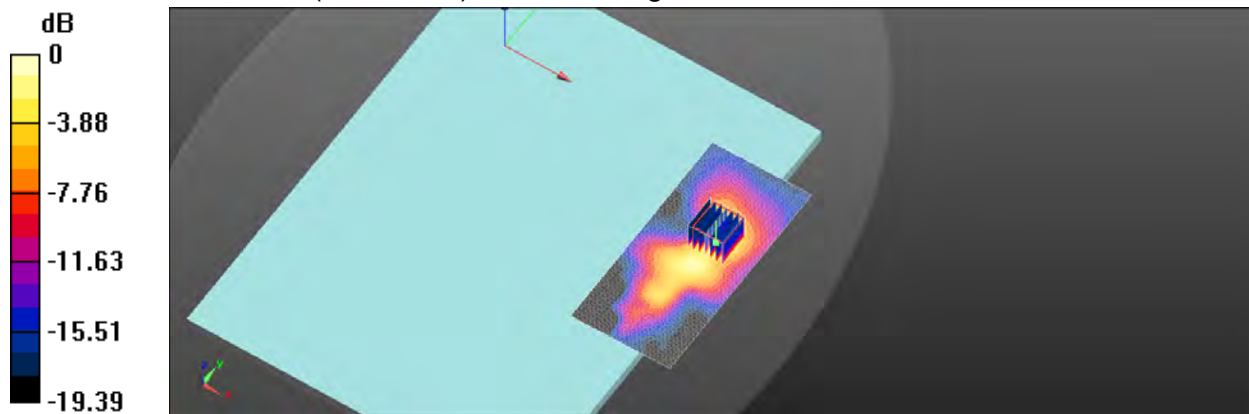
Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 1.788 V/m ; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 1.61 W/kg

SAR(1 g) = 0.357 W/kg ; SAR(10 g) = 0.124 W/kg

Maximum value of SAR (measured) = 0.724 W/kg



0 dB = 0.724 W/kg = -1.40 dBW/kg

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Date: 2019/12/15

WLAN 802.11ac(80M) 5.6G_Body_Bottom side_CH 106_Tx1_0mm

Communication System: WLAN 5G; Frequency: 5530 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5530 \text{ MHz}$; $\sigma = 4.901 \text{ S/m}$; $\epsilon_r = 35.534$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.4°C ; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(4.82, 4.82, 4.82); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (71x151x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 0.458 W/kg

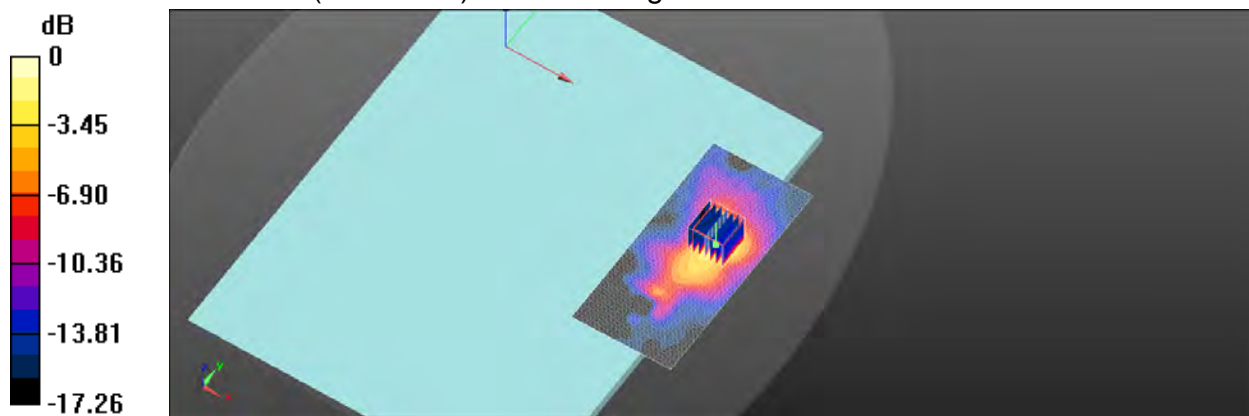
Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 1.714 V/m ; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 1.08 W/kg

SAR(1 g) = 0.225 W/kg ; SAR(10 g) = 0.083 W/kg

Maximum value of SAR (measured) = 0.447 W/kg



$0 \text{ dB} = 0.447 \text{ W/kg} = -3.50 \text{ dBW/kg}$

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Date: 2019/12/16

WLAN 802.11ac(80M) 5.8G_Body_Bottom side_CH 155_Tx1_0mm

Communication System: WLAN 5G; Frequency: 5775 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5775$ MHz; $\sigma = 5.159$ S/m; $\epsilon_r = 34.621$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 21.7°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(5.12, 5.12, 5.12); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (71x151x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.387 W/kg

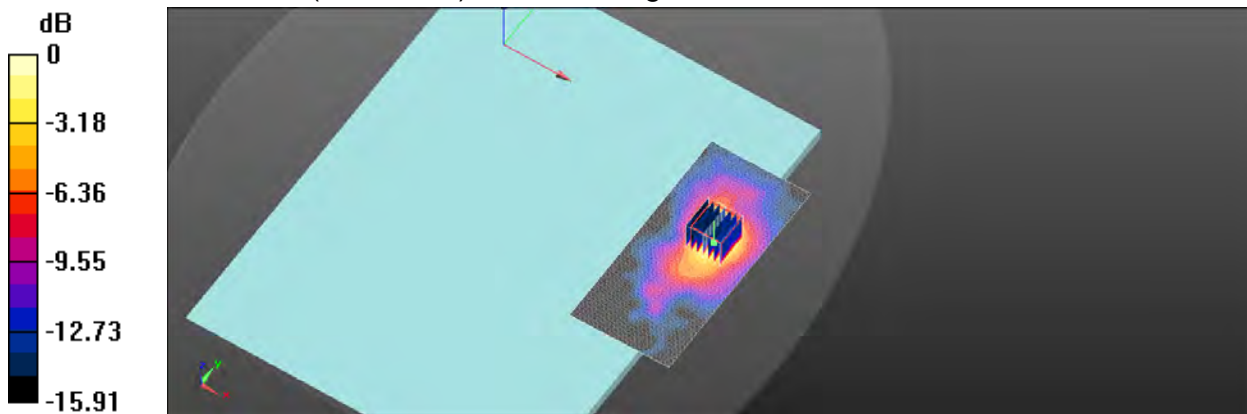
Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 1.444 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.882 W/kg

SAR(1 g) = 0.191 W/kg; SAR(10 g) = 0.076 W/kg

Maximum value of SAR (measured) = 0.380 W/kg



0 dB = 0.380 W/kg = -4.20 dBW/kg

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Date: 2019/12/12

WLAN 802.11n(20M)_Body_Bottom side_CH 10_Tx2_0mm

Communication System: WLAN 2.45G; Frequency: 2457 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2457$ MHz; $\sigma = 1.871$ S/m; $\epsilon_r = 37.611$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.0°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.48, 7.48, 7.48); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (61x121x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.455 W/kg

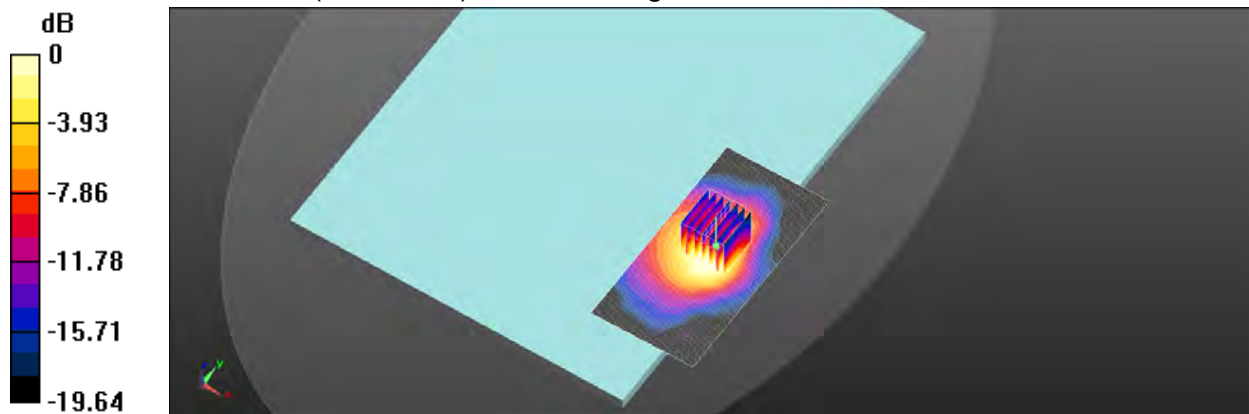
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.868 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 0.589 W/kg

SAR(1 g) = 0.313 W/kg; SAR(10 g) = 0.169 W/kg

Maximum value of SAR (measured) = 0.440 W/kg



0 dB = 0.440 W/kg = -3.57 dBW/kg

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Date: 2019/12/13

WLAN 802.11n(40M) 5.2G_Body_Bottom side_CH 46_Tx2_0mm

Communication System: WLAN 5G; Frequency: 5230 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5230$ MHz; $\sigma = 4.519$ S/m; $\epsilon_r = 36.332$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 21.2°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(5.3, 5.3, 5.3); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (71x151x1): Interpolated grid: dx=10 mm, dy=10 mm

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

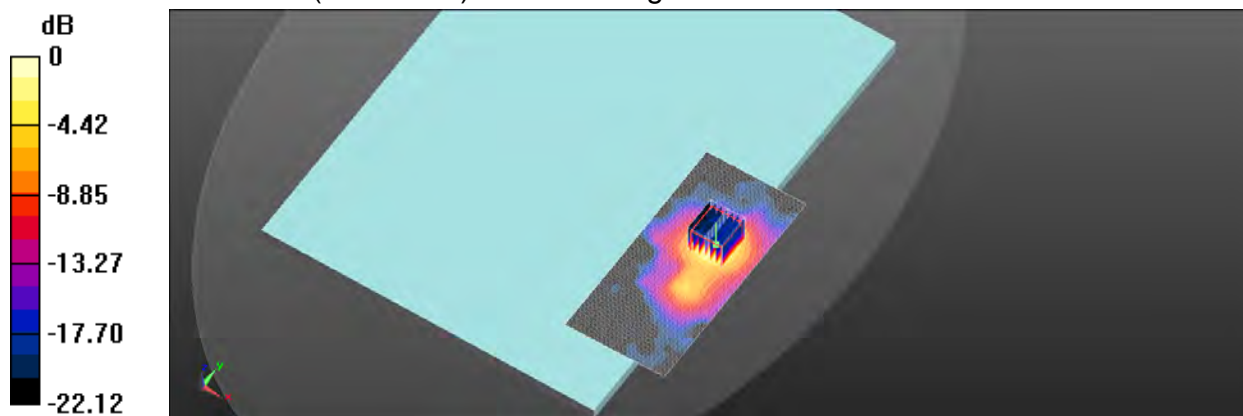
Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.318 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 1.92 W/kg

SAR(1 g) = 0.475 W/kg; SAR(10 g) = 0.163 W/kg

Maximum value of SAR (measured) = 0.946 W/kg



0 dB = 0.946 W/kg = -0.24 dBW/kg

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Date: 2019/12/14

WLAN 802.11n(40M) 5.3G_Body_Bottom side_CH 54_Tx2_0mm

Communication System: WLAN 5G; Frequency: 5270 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5270$ MHz; $\sigma = 4.621$ S/m; $\epsilon_r = 36.229$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 21.8°C; Liquid temperature: 22.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(5.3, 5.3, 5.3); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (71x151x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.823 W/kg

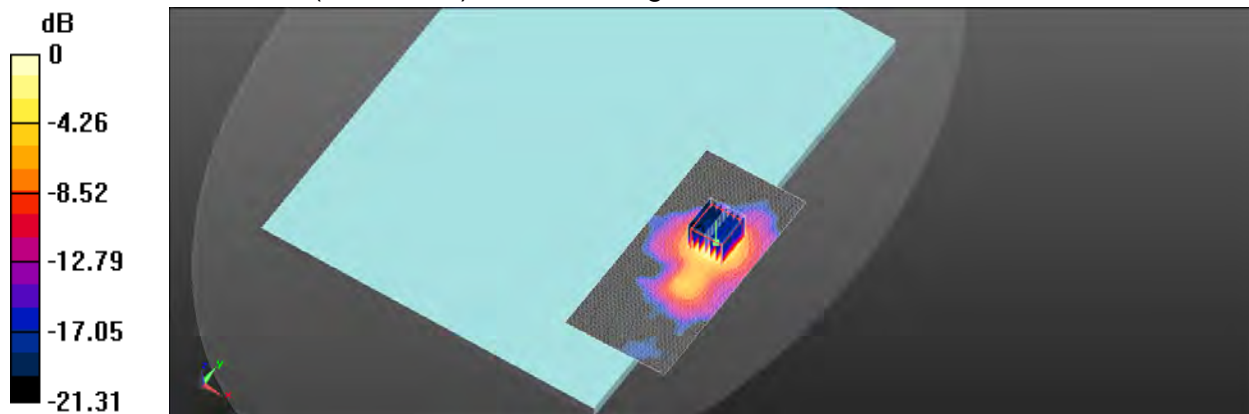
Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.461 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 1.65 W/kg

SAR(1 g) = 0.395 W/kg; SAR(10 g) = 0.137 W/kg

Maximum value of SAR (measured) = 0.784 W/kg



0 dB = 0.784 W/kg = -1.06 dBW/kg

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Date: 2019/12/15

WLAN 802.11ac(80M) 5.6G_Body_Bottom side_CH 122_Tx2_0mm

Communication System: WLAN 5G; Frequency: 5610 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5610 \text{ MHz}$; $\sigma = 5.033 \text{ S/m}$; $\epsilon_r = 35.096$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.4°C ; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(4.82, 4.82, 4.82); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (71x151x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 0.911 W/kg

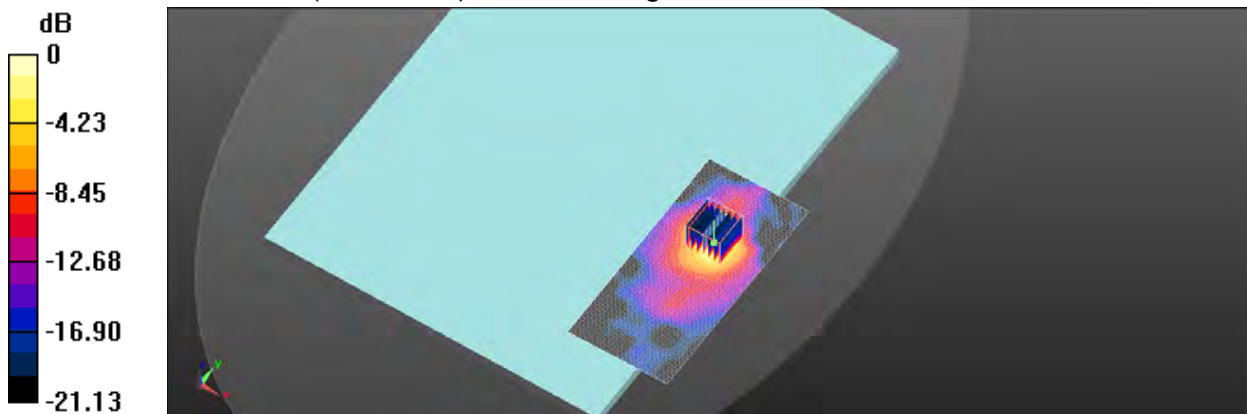
Zoom Scan (7x7x12)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=2\text{mm}$

Reference Value = 2.921 V/m ; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 2.14 W/kg

SAR(1 g) = 0.465 W/kg ; SAR(10 g) = 0.158 W/kg

Maximum value of SAR (measured) = 0.949 W/kg



0 dB = 0.949 W/kg = -0.23 dBW/kg

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Date: 2019/12/16

WLAN 802.11ac(80M) 5.8G_Body_Bottom side_CH 155_Tx2_0mm

Communication System: WLAN 5G; Frequency: 5775 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5775$ MHz; $\sigma = 5.159$ S/m; $\epsilon_r = 34.621$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 21.7°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(5.12, 5.12, 5.12); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Area Scan (71x151x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.730 W/kg

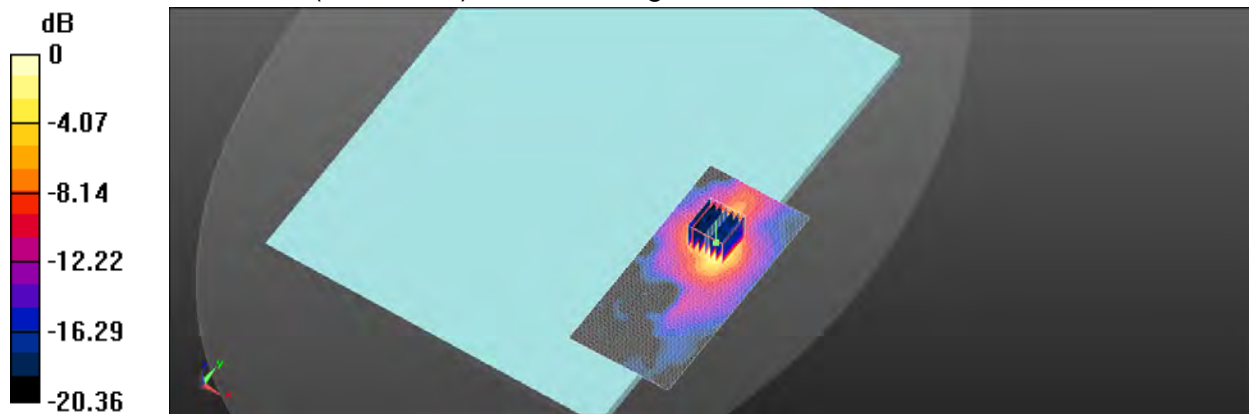
Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.179 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 2.51 W/kg

SAR(1 g) = 0.393 W/kg; SAR(10 g) = 0.129 W/kg

Maximum value of SAR (measured) = 0.802 W/kg



0 dB = 0.802 W/kg = -0.96 dBW/kg

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6. SAR System Performance Verification

Date: 2019/12/17

Dipole 750 MHz_SN:1015

Communication System: CW; Frequency: 750 MHz; Duty Cycle: 1:1

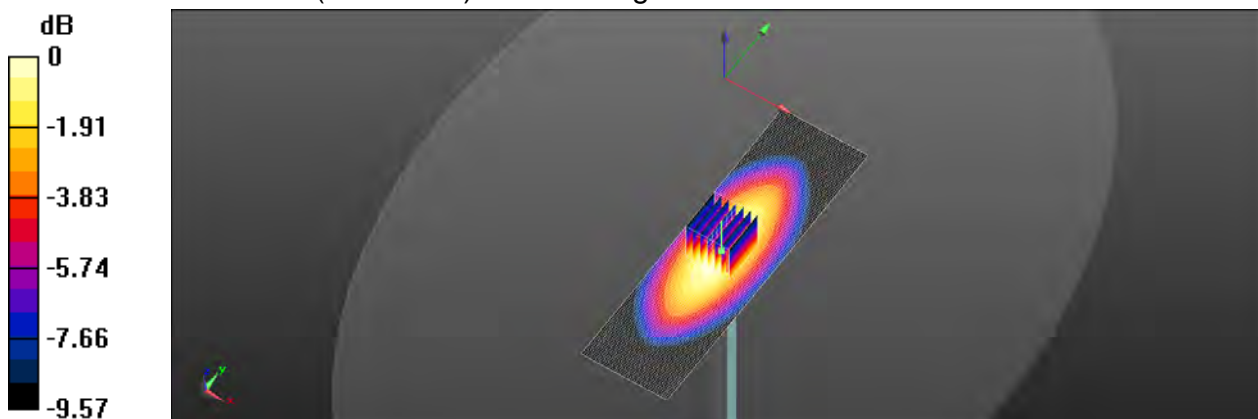
Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.916 \text{ S/m}$; $\epsilon_r = 42.902$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(9.68, 9.68, 9.68); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Pin=250mW/Area Scan (41x141x1): Interpolated grid: $dx=15 \text{ mm}$, $dy=15 \text{ mm}$ Maximum value of SAR (interpolated) = 2.62 W/kg **Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 54.90 V/m ; Power Drift = -0.02 dB Peak SAR (extrapolated) = 3.02 W/kg **SAR(1 g) = 2.13 W/kg ; SAR(10 g) = 1.44 W/kg** Maximum value of SAR (measured) = 2.64 W/kg 0 dB = 2.64 W/kg = 4.22 dBW/kg

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Date: 2019/12/17

Dipole 835 MHz_SN:4d063

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

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.887 \text{ S/m}$; $\epsilon_r = 42.881$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 21.9°C ; Liquid temperature: 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(9.44, 9.44, 9.44); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Pin=250mW/Area Scan (41x121x1): Interpolated grid: $dx=15 \text{ mm}$, $dy=15 \text{ mm}$

Maximum value of SAR (interpolated) = 2.93 W/kg

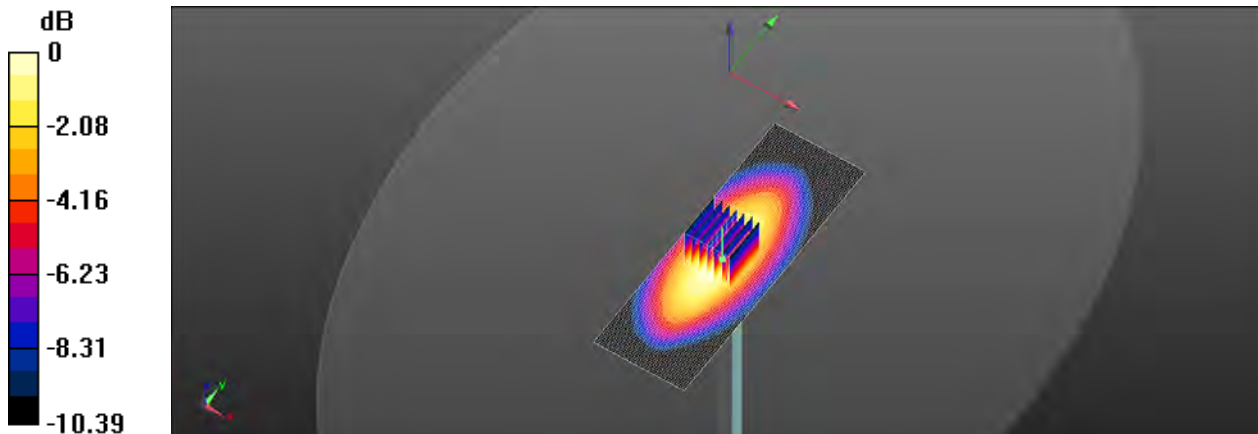
Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 55.28 V/m ; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 3.45 W/kg

SAR(1 g) = 2.35 W/kg ; SAR(10 g) = 1.53 W/kg

Maximum value of SAR (measured) = 2.99 W/kg



0 dB = 2.99 W/kg = 4.76 dBW/kg

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Date: 2019/12/18

Dipole 1750 MHz_SN:1008

Communication System: CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1750$ MHz; $\sigma = 1.319$ S/m; $\epsilon_r = 39.443$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(8.44, 8.44, 8.44); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 12.2 W/kg

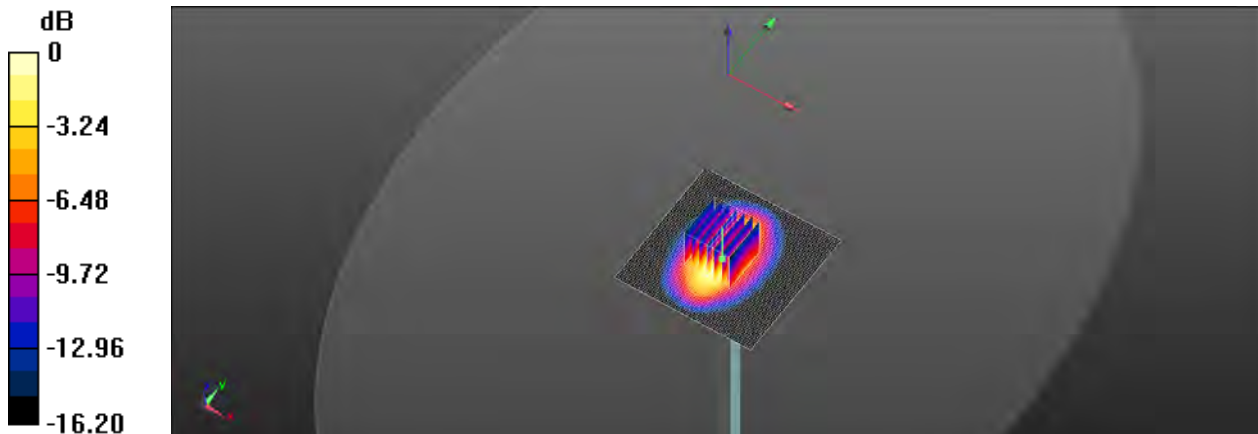
Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 95.02 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 15.3 W/kg

SAR(1 g) = 8.76 W/kg; SAR(10 g) = 4.74 W/kg

Maximum value of SAR (measured) = 12.3 W/kg



0 dB = 12.3 W/kg = 10.90 dBW/kg

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Member of SGS Group

Date: 2019/12/18

Dipole 1900 MHz_SN:5d173

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.451$ S/m; $\epsilon_r = 38.929$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 21.4°C; Liquid temperature: 22.0°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(8.23, 8.23, 8.23); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 13.4 W/kg

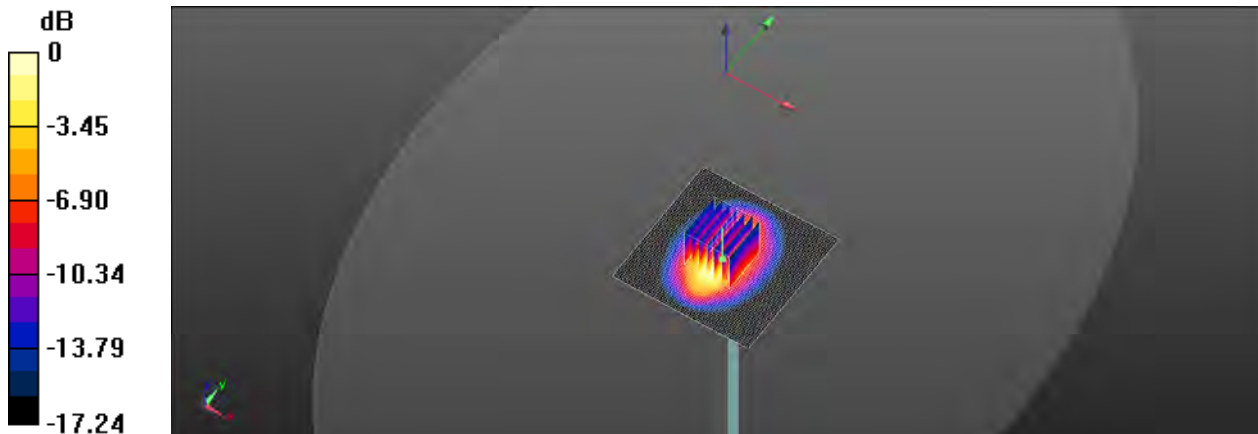
Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 96.35 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 17.1 W/kg

SAR(1 g) = 9.49 W/kg; SAR(10 g) = 5 W/kg

Maximum value of SAR (measured) = 13.5 W/kg



0 dB = 13.5 W/kg = 11.30 dBW/kg

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Member of SGS Group

Date: 2019/12/19

Dipole 2300 MHz_SN:1023

Communication System: CW; Frequency: 2300 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2300$ MHz; $\sigma = 1.651$ S/m; $\epsilon_r = 40.565$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.84, 7.84, 7.84); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Pin=250mW/Area Scan (51x51x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 18.8 W/kg

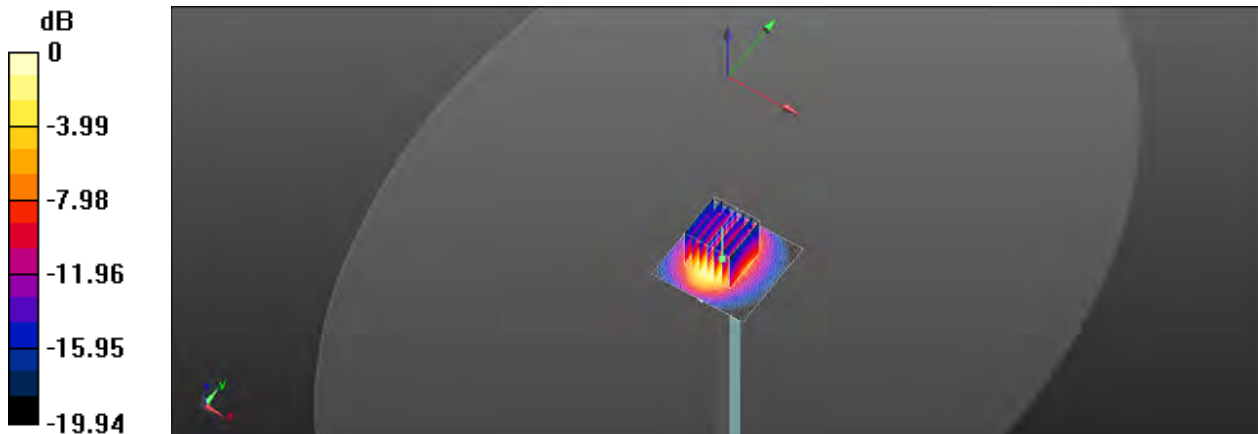
Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 93.73 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 23.3 W/kg

SAR(1 g) = 11.7 W/kg; SAR(10 g) = 5.56 W/kg

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



0 dB = 17.8 W/kg = 12.50 dBW/kg

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Date: 2019/12/12

Dipole 2450 MHz_SN:727

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

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.863$ S/m; $\epsilon_r = 37.619$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.0°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.48, 7.48, 7.48); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Pin=250mW/Area Scan (51x61x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 23.1 W/kg

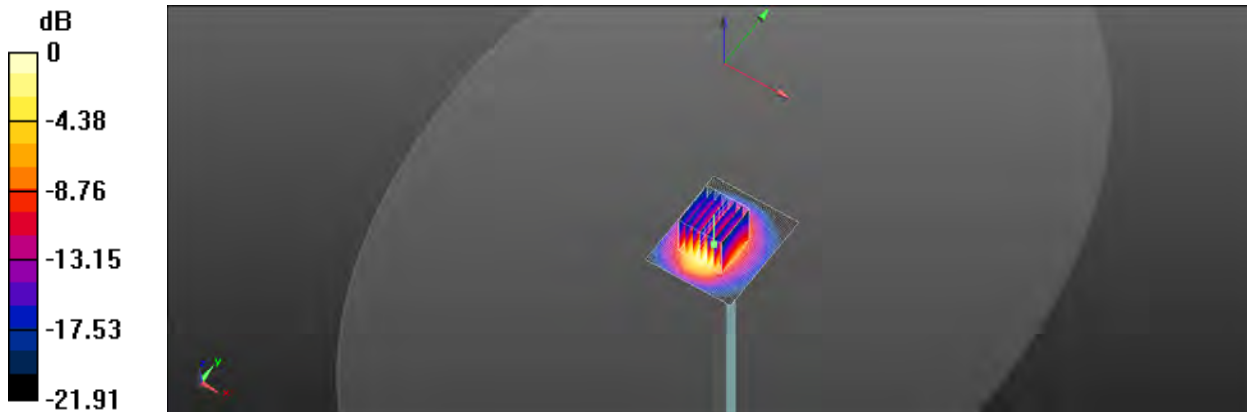
Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 100.6 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 28.9 W/kg

SAR(1 g) = 14.1 W/kg; SAR(10 g) = 6.55 W/kg

Maximum value of SAR (measured) = 21.5 W/kg



0 dB = 21.5 W/kg = 13.32 dBW/kg

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Date: 2019/12/19

Dipole 2600 MHz_SN:1005

Communication System: CW; Frequency: 2600 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2600$ MHz; $\sigma = 1.949$ S/m; $\epsilon_r = 37.527$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.0°C; Liquid temperature: 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(7.3, 7.3, 7.3); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 22.4 W/kg

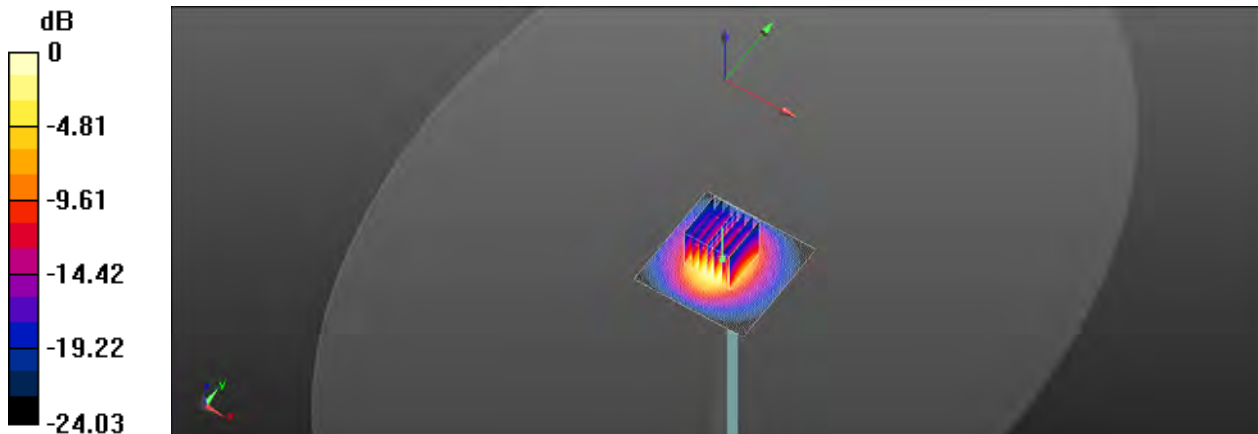
Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 103.6 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 30.4 W/kg

SAR(1 g) = 14.1 W/kg; SAR(10 g) = 6.26 W/kg

Maximum value of SAR (measured) = 22.1 W/kg



0 dB = 22.1 W/kg = 13.44 dBW/kg

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Date: 2019/12/13

Dipole 5200 MHz_SN:1023

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

Medium parameters used: $f = 5200$ MHz; $\sigma = 4.513$ S/m; $\epsilon_r = 36.599$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 21.2°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(5.3, 5.3, 5.3); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Pin=100mW/Area Scan (51x51x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 17.1 W/kg

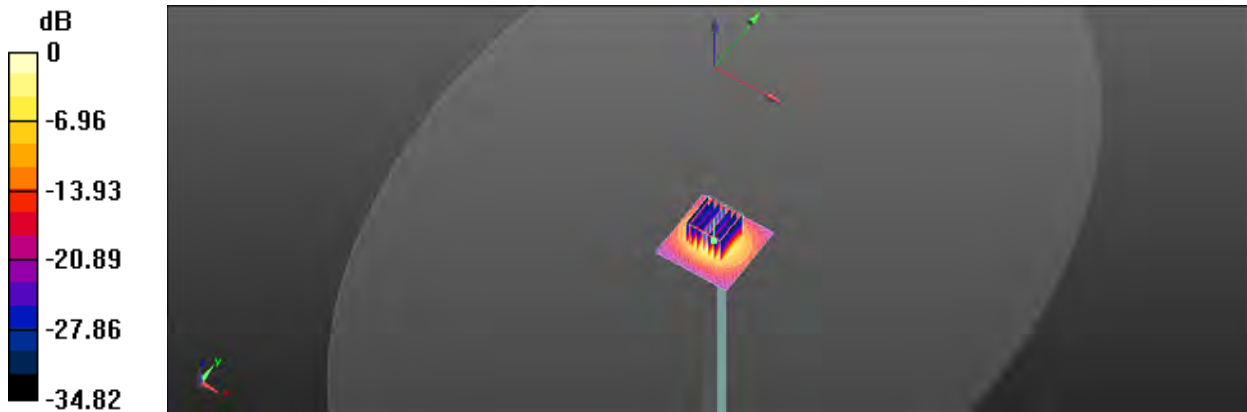
Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 64.61 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 35.4 W/kg

SAR(1 g) = 8.06 W/kg; SAR(10 g) = 2.3 W/kg

Maximum value of SAR (measured) = 17.0 W/kg



0 dB = 17.0 W/kg = 12.30 dBW/kg

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Date: 2019/12/14

Dipole 5300 MHz_SN:1023

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

Medium parameters used: $f = 5300$ MHz; $\sigma = 4.635$ S/m; $\epsilon_r = 36.214$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 21.8°C; Liquid temperature: 22.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(5.3, 5.3, 5.3); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Pin=100mW/Area Scan (51x51x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 17.9 W/kg

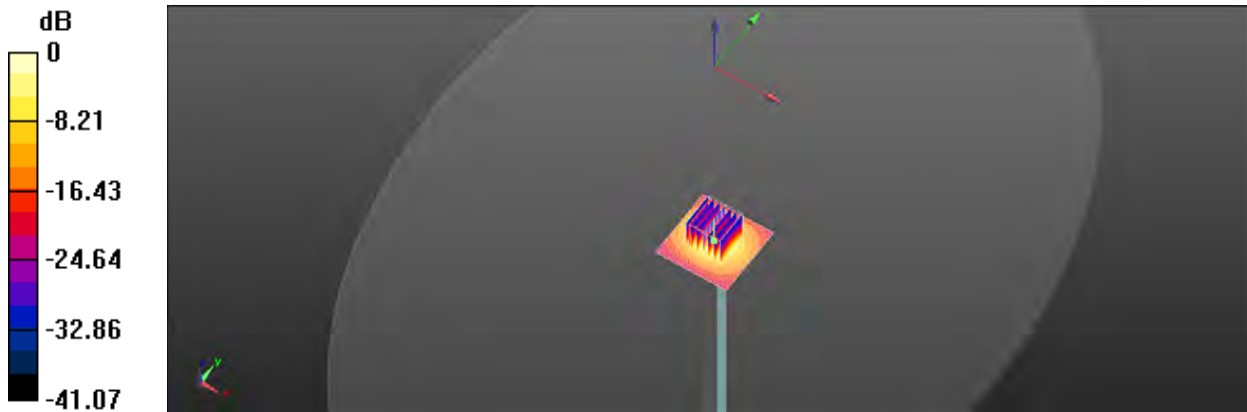
Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 65.20 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 37.9 W/kg

SAR(1 g) = 8.38 W/kg; SAR(10 g) = 2.37 W/kg

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



0 dB = 17.8 W/kg = 12.50 dBW/kg

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Date: 2019/12/15

Dipole 5600 MHz_SN:1023

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

Medium parameters used: $f = 5600$ MHz; $\sigma = 5.003$ S/m; $\epsilon_r = 35.105$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 21.4°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(4.82, 4.82, 4.82); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Pin=100mW/Area Scan (51x51x1): Interpolated grid: dx=10 mm, dy=10 mm

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

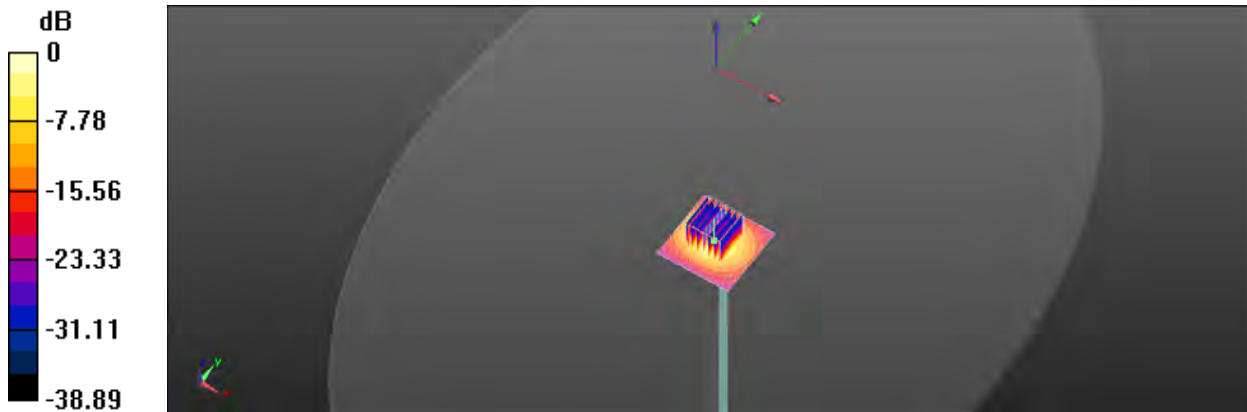
Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 61.42 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 41.5 W/kg

SAR(1 g) = 8.31 W/kg; SAR(10 g) = 2.32 W/kg

Maximum value of SAR (measured) = 18.0 W/kg



0 dB = 18.0 W/kg = 12.55 dBW/kg

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Date: 2019/12/16

Dipole 5800 MHz_SN:1023

Communication System: CW; Frequency: 5800 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5800$ MHz; $\sigma = 5.195$ S/m; $\epsilon_r = 34.367$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 21.7°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3770; ConvF(5.12, 5.12, 5.12); Calibrated: 2019/4/29;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2019/4/24
- Phantom: ELI
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Pin=100mW/Area Scan (51x51x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 17.6 W/kg

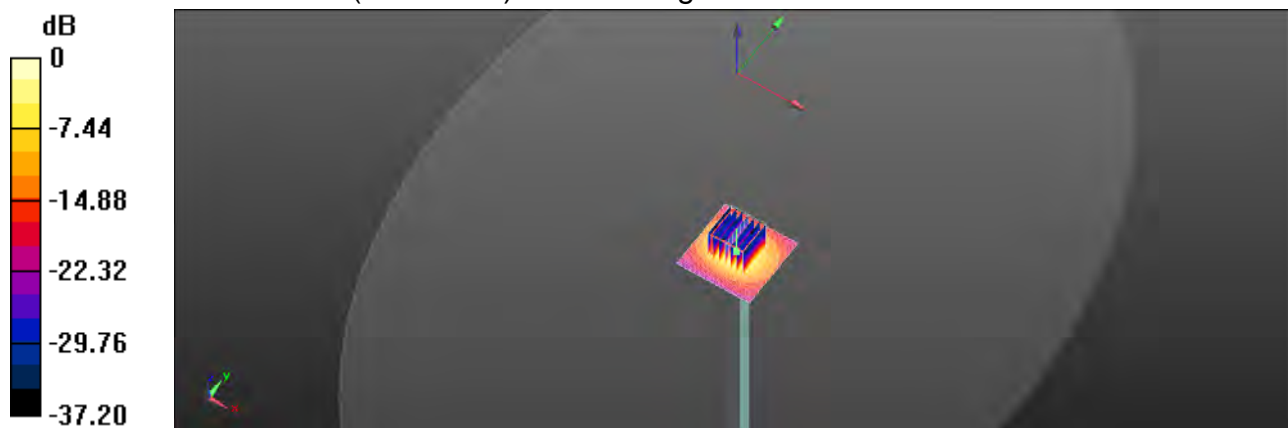
Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 61.17 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 41.9 W/kg

SAR(1 g) = 8.13 W/kg; SAR(10 g) = 2.28 W/kg

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



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

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7. Uncertainty Budget

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

A	c	D	e		f	g	h=c * f / e	i=c * g / e	k
Source of Uncertainty	Tolerance/ Uncertainty	Probability Distributio	Div	Div Value	ci (1g)	ci (10g)	Standard uncertainty	Standard uncertainty	vi, or Veff
Measurement system									
Probe calibration	6.55%	N	1	1	1	1	6.55%	6.55%	∞
<i>Isotropy , Axial</i>	3.50%	R	$\sqrt{3}$	1.732	1	1	2.02%	2.02%	∞
<i>Isotropy, Hemispherical</i>	9.60%	R	$\sqrt{3}$	1.732	1	1	5.54%	5.54%	∞
Modulation Response	2.40%	R	$\sqrt{3}$	1.732	1	1	1.40%	1.40%	∞
Boundary Effect	1.00%	R	$\sqrt{3}$	1.732	1	1	0.58%	0.58%	∞
Linearity	4.70%	R	$\sqrt{3}$	1.732	1	1	2.71%	2.71%	∞
Detection Limits	1.00%	R	$\sqrt{3}$	1.732	1	1	0.58%	0.58%	∞
Readout Electronics	0.30%	N	1	1	1	1	0.30%	0.30%	∞
Response time	0.80%	R	$\sqrt{3}$	1.732	1	1	0.46%	0.46%	∞
Integration Time	2.60%	R	$\sqrt{3}$	1.732	1	1	1.50%	1.50%	∞
Measurement drift (class A evaluation)	1.75%	R	$\sqrt{3}$	1.732	1	1	1.01%	1.01%	∞
RF ambient condition - noise	3.00%	R	$\sqrt{3}$	1.732	1	1	1.73%	1.73%	∞
RF ambient conditions - reflections	3.00%	R	$\sqrt{3}$	1.732	1	1	1.73%	1.73%	∞
Probe positioner Mechanical restrictions	0.40%	R	$\sqrt{3}$	1.732	1	1	0.23%	0.23%	∞
Probe Positioning with respect to phantom shell	2.90%	R	$\sqrt{3}$	1.732	1	1	1.67%	1.67%	∞
Post-processing	1.00%	R	$\sqrt{3}$	1.732	1	1	0.58%	0.58%	∞
Max SAR Eval	1.00%	R	$\sqrt{3}$	1.732	1	1	0.58%	0.58%	∞
Test Sample related									
Test sample positioning	2.90%	N	1	1	1	1	2.90%	2.90%	M-1
Device Holder Uncertainty	3.60%	N	1	1	1	1	3.60%	3.60%	M-1
Drift of output power	5.00%	R	$\sqrt{3}$	1.732	1	1	2.89%	2.89%	∞
Phantom and Setup									
Phantom Uncertainty	4.00%	R	$\sqrt{3}$	1.732	1	1	2.31%	2.31%	∞
Liquid permittivity (mea.)	2.64%	N	1	1	0.64	0.43	1.69%	1.14%	M
Liquid Conductivity (mea.)	3.56%	N	1	1	0.6	0.49	2.14%	1.74%	M
Combined standard uncertainty		RSS					12.03%	11.89%	
Expant uncertainty (95% confidence interval), K=2							24.06%	23.78%	

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

A	c	D	e		f	g	h=c * f / e	i=c * g / e	k
Source of Uncertainty	Tolerance/ Uncertainty	Probability Distributio	Div	Div Value	ci (1g)	ci (10g)	Standard uncertainty	Standard uncertainty	vi, or Veff
Measurement system									
Probe calibration	6.00%	N	1	1	1	1	6.00%	6.00%	∞
Isotropy , Axial	3.50%	R	$\sqrt{3}$	1.732	1	1	2.02%	2.02%	∞
Isotropy, Hemispherical	9.60%	R	$\sqrt{3}$	1.732	1	1	5.54%	5.54%	∞
Modulation Response	2.40%	R	$\sqrt{3}$	1.732	1	1	1.40%	1.40%	∞
Boundary Effect	1.00%	R	$\sqrt{3}$	1.732	1	1	0.58%	0.58%	∞
Linearity	4.70%	R	$\sqrt{3}$	1.732	1	1	2.71%	2.71%	∞
Detection Limits	1.00%	R	$\sqrt{3}$	1.732	1	1	0.58%	0.58%	∞
Readout Electronics	0.30%	N	1	1	1	1	0.30%	0.30%	∞
Response time	0.80%	R	$\sqrt{3}$	1.732	1	1	0.46%	0.46%	∞
Integration Time	2.60%	R	$\sqrt{3}$	1.732	1	1	1.50%	1.50%	∞
Measurement drift (class A evaluation)	1.75%	R	$\sqrt{3}$	1.732	1	1	1.01%	1.01%	∞
RF ambient condition - noise	3.00%	R	$\sqrt{3}$	1.732	1	1	1.73%	1.73%	∞
RF ambient conditions - reflections	3.00%	R	$\sqrt{3}$	1.732	1	1	1.73%	1.73%	∞
Probe positioner Mechanical restrictions	0.40%	R	$\sqrt{3}$	1.732	1	1	0.23%	0.23%	∞
Probe Positioning with respect to phantom shell	2.90%	R	$\sqrt{3}$	1.732	1	1	1.67%	1.67%	∞
Post-processing	1.00%	R	$\sqrt{3}$	1.732	1	1	0.58%	0.58%	∞
Max SAR Eval	1.00%	R	$\sqrt{3}$	1.732	1	1	0.58%	0.58%	∞
Test Sample related									
Test sample positioning	2.90%	N	1	1	1	1	2.90%	2.90%	M-1
Device Holder Uncertainty	3.60%	N	1	1	1	1	3.60%	3.60%	M-1
Drift of output power	5.00%	R	$\sqrt{3}$	1.732	1	1	2.89%	2.89%	∞
Phantom and Setup									
Phantom Uncertainty	4.00%	R	$\sqrt{3}$	1.732	1	1	2.31%	2.31%	∞
Liquid permittivity (mea.)	4.38%	N	1	1	0.64	0.43	2.80%	1.88%	M
Liquid Conductivity (mea.)	4.36%	N	1	1	0.6	0.49	2.62%	2.14%	M
Combined standard uncertainty		RSS					12.04%	11.76%	
Expant uncertainty (95% confidence interval), K=2							24.09%	23.52%	

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Appendixes

Refer to separated files for the following appendixes.

EN2019C0015 SAR_Appendix A Photographs

EN2019C0015 SAR_Appendix B DAE & Probe Cal. Certificate

EN2019C0015 SAR_Appendix C Phantom Description & Dipole Cal. Certificate

- End of report -

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