

SAR TEST REPORT



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

Equipment Under Test SATURN1000-E
Model Name SATURN1000-E
Brand Name CASTLES TECHNOLOGY
Company Name Castles Technology Co., Ltd
Company Address 6F, No. 207-5, Sec.3, Beixin Rd., Xindian District, New Taipei City 231, Taiwan
Standards IEEE/ANSI C95.1-1992, IEEE 1528-2013
FCC ID WIYQSC20A
Date of Receipt Apr. 09, 2020
Date of Test(s) Aug. 09, 2020 ~ Aug. 27, 2020
Date of Issue Sep. 04, 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	Engineer / Bond Tsai	Asst. Manager / John Yeh

Date: Sep. 04, 2020

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Revision History

Report Number	Revision	Description	Issue Date
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0. Guidance applied

The SAR testing method and procedure for this device is in accordance with the following standards:

IEEE/ANSI C95.1-1992

IEEE 1528-2013

KDB865664D01v01r04

KDB865664D02v01r02

KDB941225D01v03r01

KDB941225D05v02r05

KDB447498D01v06

KDB248227D01v02r02

KDB941225D07v01r02

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1. General Information

1.1 Testing Laboratory

SGS Taiwan Ltd. Central RF Lab	
No. 2, Keji 1 st Rd., Guishan Township, Taoyuan County, 33383, Taiwan	
Tel	+886-2-2299-3279
Fax	+886-2-2298-0488
Internet	http://www.tw.sgs.com/

1.2 Details of Applicant

Company Name	Castles Technology Co., Ltd
Company Address	6F, No. 207-5, Sec.3, Beixin Rd., Xindian District, New Taipei City 231, Taiwan

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1.3 Description of EUT

EUT Name	SATURN1000-E		
Model Name	SATURN1000-E		
Brand Name	CASTLES TECHNOLOGY		
FCC ID	WIYQSC20A		
Mode of Operation	☒ GSM ☒ GPRS ☒ WCDMA ☒ HSDPA ☒ HSUPA ☒ LTE FDD ☒ WLAN802.11 a/b/g/n(20M/40M) ☒ Bluetooth		
Duty Cycle	GSM (DTM multi class B)	1/8.3	
	GPRS (support multi class 12 max)	1/2 (1Dn4UP) 1/2.76 (1Dn3UP) 1/4.1 (1Dn2UP) 1/8.3 (1Dn1UP)	
	LTE FDD	1	
	WCDMA	1	
	WLAN802.11 a/b/g/n(20M/40M)	Refer to page 92-94	
	Bluetooth	76.8 %	
TX Frequency Range (MHz)	GSM850	824	— 849
	GSM1900	1850	— 1910
	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 25	1850	— 1915
	LTE FDD Band 26	814	— 849

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TX Frequency Range (MHz)	WLAN802.11 b/g/n(20M)	2412	—	2462
	WLAN802.11 n(40M)	2422	—	2452
	WLAN802.11 a/n(20M) 5.2G	5180	—	5240
	WLAN802.11 n(40M) 5.2G	5190	—	5230
	WLAN802.11 a/n(20M) 5.3G	5260	—	5320
	WLAN802.11 n(40M) 5.3G	5270	—	5310
	WLAN802.11 a/n(20M) 5.6G	5500	—	5720
	WLAN802.11 n(40M) 5.6G	5510	—	5710
	WLAN802.11 a/n(20M) 5.8G	5745	—	5825
	WLAN802.11 n(40M) 5.8G	5755	—	5795
	Bluetooth	2402	—	2480
Channel Number (ARFCN)	GSM850	128	—	251
	GSM1900	512	—	810
	WCDMA Band II	9262	—	9538
	WCDMA Band IV	1312	—	1513
	WCDMA Band V	4132	—	4233
	LTE FDD Band 2	18607	—	19193
	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 25	26047	—	26683
	LTE FDD Band 26	26697	—	27033
	WLAN802.11 b/g/n(20M)	1	—	11
	WLAN802.11 n(40M)	3	—	9
	WLAN802.11 a/n(20M) 5.2G	36	—	48
	WLAN802.11 n(40M) 5.2G	38	—	46

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Channel Number (ARFCN)	WLAN802.11 a/n(20M) 5.3G	52	—	64
	WLAN802.11 n(40M) 5.3G	54	—	62
	WLAN802.11 a/n(20M) 5.6G	100	—	144
	WLAN802.11 n(40M) 5.6G	102	—	142
	WLAN802.11 a/n(20M) 5.8G	149	—	165
	WLAN802.11 n(40M) 5.8G	151	—	159
	Bluetooth	0	—	78

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Max. SAR (1 g) (Unit: W/Kg)				
Band	Measured	Reported	Channel	Position
GPRS 850	0.66	0.87	128	Back side
GPRS 1900	0.75	0.99	512	Back side
WCDMA Band II	0.53	0.60	9262	Back side
WCDMA Band IV	0.54	0.81	1513	Top side
WCDMA Band V	0.51	0.77	4233	Back side
LTE FDD Band 2	0.54	0.59	18700	Back side
LTE FDD Band 4	0.43	0.66	20175	Back side
LTE FDD Band 5	0.47	0.71	20450	Back side
LTE FDD Band 7	0.59	0.75	21350	Top side
LTE FDD Band 12	0.68	0.73	23130	Back side
LTE FDD Band 13	0.64	0.68	23230	Back side
LTE FDD Band 25	0.58	0.61	26140	Back side
LTE FDD Band 26	0.50	0.67	26865	Back side

Max. SAR (1 g) (Unit: W/Kg)				
Band	Measured	Reported	Channel	Position
WLAN 802.11b	0.50	0.51	11	Back side
Bluetooth (GFSK)	0.03	0.05	78	Back side
WLAN 802.11n(20M) 5.2G	0.48	0.56	48	Back side
WLAN 802.11n(20M) 5.3G	0.31	0.37	52	Back side
WLAN 802.11n(20M) 5.6G	0.23	0.27	140	Back side
WLAN 802.11a 5.8G	0.25	0.28	149	Back side

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GSM 850 - conducted power table:

EUT mode	Frequency (MHz)	CH	Max. Rated Avg. Power + Max. Tolerance (dBm)	Burst average power	Source-based time average power
				Avg. (dBm)	Avg. (dBm)
GSM 850 (GMSK)	824.2	128	30	29.95	20.92
	836.6	190	30	29.92	20.89
	848.8	251	30	29.90	20.87
The division factor compared to the number of TX time slot					
Division factor				1 TX time slot	
				-9.03	

GPRS 850 - conducted power table:

Burst average power						
Max. Rated Avg. Power + Max. Tolerance (dBm)			30	30	30	29
			1Dn1UP	1Dn2UP	1Dn3UP	1Dn4UP
EUT mode	Frequency (MHz)	CH	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)
GPRS 850	824.2	128	29.98	29.88	29.73	28.84
	836.6	190	29.94	29.82	29.65	28.81
	848.8	251	29.93	29.78	29.59	28.70
Source-based time average power						
GPRS 850	824.2	128	20.95	23.86	25.47	25.83
	836.6	190	20.91	23.80	25.39	25.80
	848.8	251	20.90	23.76	25.33	25.69
The division factor compared to the number of TX time slot						
Division factor			1 TX time slot	2 TX time slot	3 TX time slot	4 TX time slot
			-9.03	-6.02	-4.26	-3.01

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GSM 1900 - conducted power table:

EUT mode	Frequency (MHz)	CH	Max. Rated Avg. Power + Max.Tolerance (dBm)	Burst average power	Source-based time average power
				Avg. (dBm)	Avg. (dBm)
GSM1900 (GMSK)	1850.2	512	25.5	25.26	16.23
	1800	661	25.5	25.47	16.44
	1909.8	810	25.5	25.40	16.37
The division factor compared to the number of TX time slot					
Division factor				1 TX time slot	
				-9.03	

GPRS 1900 - conducted power table:

Burst average power						
Max. Rated Avg. Power + Max. Tolerance (dBm)			25.5	25.5	25.5	25.5
			1Dn1UP	1Dn2UP	1Dn3UP	1Dn4UP
EUT mode	Frequency (MHz)	CH	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)
GPRS 1900	1850.2	512	25.28	25.17	24.99	24.29
	1880	661	25.48	25.38	25.17	24.30
	1909.8	810	25.43	25.31	25.10	24.21
Source-based time average power						
GPRS 1900	1850.2	512	16.25	19.15	20.73	21.28
	1880	661	16.45	19.36	20.91	21.29
	1909.8	810	16.40	19.29	20.84	21.20
The division factor compared to the number of TX time slot						
Division factor			1 TX time slot	2 TX time slot	3 TX time slot	4 TX time slot
			-9.03	-6.02	-4.26	-3.01

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f (886-2) 2298-0488

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WCDMA Band II / Band IV / Band V - HSDPA / HSUPA 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)		20.50		
3GPP Rel 99	RMC 12.2Kbps	19.95	19.93	19.89
3GPP Rel 5	HSDPA Subtest-1	19.66	19.54	19.61
	HSDPA Subtest-2	19.33	19.03	19.12
	HSDPA Subtest-3	19.21	19.02	19.11
	HSDPA Subtest-4	19.18	19.00	19.10
3GPP Rel 6	HSUPA Subtest-1	19.54	19.18	18.97
	HSUPA Subtest-2	17.81	17.56	17.62
	HSUPA Subtest-3	18.69	18.54	18.52
	HSUPA Subtest-4	18.29	18.05	18.11
	HSUPA Subtest-5	19.78	19.66	19.74

Band		WCDMA IV		
TX Channel		1312	1412	1513
Frequency (MHz)		1712.4	1732.4	1752.6
Max. Rated Avg. Power+Max. Tolerance (dBm)		24.00		
3GPP Rel 99	RMC 12.2Kbps	21.77	21.99	22.20
3GPP Rel 5	HSDPA Subtest-1	21.75	21.81	22.07
	HSDPA Subtest-2	21.28	21.34	21.58
	HSDPA Subtest-3	21.30	21.36	21.59
	HSDPA Subtest-4	21.30	21.45	21.58
3GPP Rel 6	HSUPA Subtest-1	21.52	21.54	21.69
	HSUPA Subtest-2	19.83	19.86	19.90
	HSUPA Subtest-3	20.72	20.84	21.12
	HSUPA Subtest-4	20.34	20.36	20.64
	HSUPA Subtest-5	21.83	21.77	21.85

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Band		WCDMA V		
TX Channel		4132	4183	4233
Frequency (MHz)		826.4	836.6	846.6
Max. Rated Avg. Power+Max. Tolerance (dBm)		24.00		
3GPP Rel 99	RMC 12.2Kbps	22.16	22.23	22.19
3GPP Rel 5	HSDPA Subtest-1	22.15	22.02	22.04
	HSDPA Subtest-2	21.72	21.57	21.59
	HSDPA Subtest-3	21.74	21.58	21.53
	HSDPA Subtest-4	21.73	21.57	21.59
3GPP Rel 6	HSUPA Subtest-1	21.71	21.88	21.71
	HSUPA Subtest-2	20.16	20.06	20.07
	HSUPA Subtest-3	21.12	20.93	21.03
	HSUPA Subtest-4	20.63	20.53	20.55
	HSUPA Subtest-5	22.11	22.08	21.96

Subtests for WCDMA Release 5 HSDPA

SUB-TEST	β_c	β_d	β_d (SF)	β_c/β_d	β_{HS} (Note 1, Note 2)	CM (dB) (Note 3)	MPR (dB) (Note 3)
1	2/15	15/15	64	2/15	4/15	0.0	0.0
2	12/15	15/15	64	12/15	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

Subtests for WCDMA Release 6 HSUPA

SUB-TEST	β_c	β_d	β_d (SF)	β_c/β_d	β_{HS} (Note 1)	β_{ec}	β_{ed} (Note 5) (Note 6)	β_{ed} (SF)	β_{ed} (Codes)	CM (dB) (Note 2)	MPR (dB) (Note 2)	AG Index (Note 6)	E-TFCI
1	11/15	15/15	64	11/15	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	β_{ed1} : 47/15 β_{ed2} : 47/15	4 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	15/15	64	15/15	30/15	24/15	134/15	4	1	1.0	0.0	21	81

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LTE FDD Band 2 / Band 4 / Band 5 / Band 7 / Band 12 / Band 13 / Band 25 / Band 26 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	20.06	20.5	0
				1880	18900	20.35	20.5	0
				1900	19100	20.19	20.5	0
			50	1860	18700	20.08	20.5	0
				1880	18900	19.92	20.5	0
				1900	19100	19.95	20.5	0
			99	1860	18700	19.85	20.5	0
				1880	18900	20.09	20.5	0
				1900	19100	19.94	20.5	0
		50 RB	0	1860	18700	19.09	19.5	0-1
				1880	18900	18.87	19.5	0-1
				1900	19100	18.99	19.5	0-1
			25	1860	18700	18.97	19.5	0-1
				1880	18900	18.93	19.5	0-1
				1900	19100	18.89	19.5	0-1
			50	1860	18700	19.00	19.5	0-1
				1880	18900	18.88	19.5	0-1
				1900	19100	18.86	19.5	0-1
		100RB		1860	18700	19.03	19.5	0-1
				1880	18900	18.82	19.5	0-1
				1900	19100	19.04	19.5	0-1
	16-QAM	1 RB	0	1860	18700	19.34	19.5	0-1
				1880	18900	19.27	19.5	0-1
				1900	19100	19.43	19.5	0-1
			50	1860	18700	19.49	19.5	0-1
				1880	18900	18.73	19.5	0-1
				1900	19100	19.30	19.5	0-1
			99	1860	18700	19.33	19.5	0-1
				1880	18900	19.16	19.5	0-1
				1900	19100	19.47	19.5	0-1
		50 RB	0	1860	18700	18.12	18.5	0-2
				1880	18900	17.85	18.5	0-2
				1900	19100	17.99	18.5	0-2
			25	1860	18700	18.06	18.5	0-2
				1880	18900	17.85	18.5	0-2
				1900	19100	17.94	18.5	0-2
			50	1860	18700	17.98	18.5	0-2
				1880	18900	17.70	18.5	0-2
				1900	19100	17.88	18.5	0-2
		100RB		1860	18700	18.14	18.5	0-2
				1880	18900	17.88	18.5	0-2
				1900	19100	18.06	18.5	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	19.31	19.5	0-1
				1880	18900	19.25	19.5	0-1
				1900	19100	19.40	19.5	0-1
			50	1860	18700	19.45	19.5	0-1
				1880	18900	18.69	19.5	0-1
				1900	19100	19.23	19.5	0-1
			99	1860	18700	19.31	19.5	0-1
				1880	18900	19.11	19.5	0-1
				1900	19100	19.41	19.5	0-1
		50 RB	0	1860	18700	18.03	18.5	0-2
				1880	18900	17.84	18.5	0-2
				1900	19100	17.98	18.5	0-2
			25	1860	18700	18.00	18.5	0-2
				1880	18900	17.82	18.5	0-2
				1900	19100	17.90	18.5	0-2
			50	1860	18700	17.97	18.5	0-2
				1880	18900	17.65	18.5	0-2
				1900	19100	17.83	18.5	0-2
		100RB		1860	18700	18.09	18.5	0-2
				1880	18900	17.86	18.5	0-2
				1900	19100	18.00	18.5	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	QPSK	1 RB	0	1857.5	18675	20.27	20.5	0	
				1880	18900	20.25	20.5	0	
				1902.5	19125	20.17	20.5	0	
			36	1857.5	18675	20.06	20.5	0	
				1880	18900	20.03	20.5	0	
				1902.5	19125	19.84	20.5	0	
			74	1857.5	18675	20.06	20.5	0	
				1880	18900	20.02	20.5	0	
				1902.5	19125	19.97	20.5	0	
		36 RB	0	1857.5	18675	19.21	19.5	0-1	
				1880	18900	19.18	19.5	0-1	
				1902.5	19125	19.16	19.5	0-1	
			18	1857.5	18675	19.08	19.5	0-1	
				1880	18900	19.12	19.5	0-1	
				1902.5	19125	19.03	19.5	0-1	
			37	1857.5	18675	19.12	19.5	0-1	
				1880	18900	19.02	19.5	0-1	
				1902.5	19125	19.14	19.5	0-1	
		75RB			1857.5	18675	19.11	19.5	0-1
					1880	18900	19.04	19.5	0-1
					1902.5	19125	19.06	19.5	0-1
	16-QAM	1 RB	0	1857.5	18675	19.46	19.5	0-1	
				1880	18900	19.06	19.5	0-1	
				1902.5	19125	19.38	19.5	0-1	
			36	1857.5	18675	19.31	19.5	0-1	
				1880	18900	18.89	19.5	0-1	
				1902.5	19125	18.56	19.5	0-1	
			74	1857.5	18675	19.50	19.5	0-1	
				1880	18900	19.21	19.5	0-1	
				1902.5	19125	18.52	19.5	0-1	
			36 RB	0	1857.5	18675	18.24	18.5	0-2
					1880	18900	18.21	18.5	0-2
					1902.5	19125	18.12	18.5	0-2
		18		1857.5	18675	18.18	18.5	0-2	
				1880	18900	18.16	18.5	0-2	
				1902.5	19125	18.21	18.5	0-2	
		37	1857.5	18675	18.23	18.5	0-2		
			1880	18900	18.09	18.5	0-2		
			1902.5	19125	17.92	18.5	0-2		
		75RB			1857.5	18675	18.24	18.5	0-2
					1880	18900	17.97	18.5	0-2
					1902.5	19125	18.12	18.5	0-2

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FDD Band 2								
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15	64-QAM	1 RB	0	1857.5	18675	19.25	19.5	0-1
				1880	18900	19.19	19.5	0-1
				1902.5	19125	19.41	19.5	0-1
			36	1857.5	18675	19.48	19.5	0-1
				1880	18900	18.70	19.5	0-1
				1902.5	19125	19.26	19.5	0-1
			74	1857.5	18675	19.29	19.5	0-1
				1880	18900	19.06	19.5	0-1
				1902.5	19125	19.38	19.5	0-1
		36 RB	0	1857.5	18675	18.07	18.5	0-2
				1880	18900	17.75	18.5	0-2
				1902.5	19125	17.96	18.5	0-2
			18	1857.5	18675	18.01	18.5	0-2
				1880	18900	17.83	18.5	0-2
				1902.5	19125	17.91	18.5	0-2
			37	1857.5	18675	17.91	18.5	0-2
				1880	18900	17.60	18.5	0-2
				1902.5	19125	17.83	18.5	0-2
		75RB		1857.5	18675	18.10	18.5	0-2
				1880	18900	17.80	18.5	0-2
				1902.5	19125	18.04	18.5	0-2

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BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
10	QPSK	1 RB	0	1855	18650	20.00	20.5	0
				1880	18900	20.20	20.5	0
				1905	19150	20.23	20.5	0
			25	1855	18650	20.13	20.5	0
				1880	18900	20.13	20.5	0
				1905	19150	20.26	20.5	0
			49	1855	18650	20.32	20.5	0
				1880	18900	20.02	20.5	0
				1905	19150	20.02	20.5	0
		25 RB	0	1855	18650	19.18	19.5	0-1
				1880	18900	19.09	19.5	0-1
				1905	19150	19.10	19.5	0-1
			12	1855	18650	19.18	19.5	0-1
				1880	18900	19.17	19.5	0-1
				1905	19150	19.07	19.5	0-1
			25	1855	18650	19.06	19.5	0-1
				1880	18900	19.01	19.5	0-1
				1905	19150	19.05	19.5	0-1
		50RB	1855	18650	19.24	19.5	0-1	
			1880	18900	19.14	19.5	0-1	
			1905	19150	19.03	19.5	0-1	
	16-QAM	1 RB	0	1855	18650	19.04	19.5	0-1
				1880	18900	18.79	19.5	0-1
				1905	19150	19.43	19.5	0-1
			25	1855	18650	19.33	19.5	0-1
				1880	18900	19.34	19.5	0-1
				1905	19150	19.48	19.5	0-1
			49	1855	18650	19.44	19.5	0-1
				1880	18900	19.22	19.5	0-1
				1905	19150	19.31	19.5	0-1
		25 RB	0	1855	18650	18.27	18.5	0-2
				1880	18900	18.11	18.5	0-2
				1905	19150	18.02	18.5	0-2
			12	1855	18650	18.26	18.5	0-2
				1880	18900	18.18	18.5	0-2
				1905	19150	17.98	18.5	0-2
			25	1855	18650	18.35	18.5	0-2
				1880	18900	17.98	18.5	0-2
				1905	19150	18.04	18.5	0-2
		50RB	1855	18650	18.42	18.5	0-2	
			1880	18900	18.19	18.5	0-2	
			1905	19150	18.08	18.5	0-2	

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t (886-2) 2299-3279

f (886-2) 2298-0488

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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	19.33	19.5	0-1
				1880	18900	19.26	19.5	0-1
				1905	19150	19.37	19.5	0-1
			25	1855	18650	19.48	19.5	0-1
				1880	18900	18.69	19.5	0-1
				1905	19150	19.27	19.5	0-1
			49	1855	18650	19.26	19.5	0-1
				1880	18900	19.11	19.5	0-1
				1905	19150	19.38	19.5	0-1
		25 RB	0	1855	18650	18.11	18.5	0-2
				1880	18900	17.76	18.5	0-2
				1905	19150	17.90	18.5	0-2
			12	1855	18650	17.97	18.5	0-2
				1880	18900	17.85	18.5	0-2
				1905	19150	17.92	18.5	0-2
			25	1855	18650	17.88	18.5	0-2
				1880	18900	17.61	18.5	0-2
				1905	19150	17.82	18.5	0-2
		50RB		1855	18650	18.14	18.5	0-2
				1880	18900	17.87	18.5	0-2
				1905	19150	18.05	18.5	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	QPSK	1 RB	0	1852.5	18625	20.03	20.5	0	
				1880	18900	19.96	20.5	0	
				1907.5	19175	20.03	20.5	0	
			12	1852.5	18625	20.08	20.5	0	
				1880	18900	19.97	20.5	0	
				1907.5	19175	20.12	20.5	0	
			24	1852.5	18625	20.29	20.5	0	
				1880	18900	19.97	20.5	0	
				1907.5	19175	20.02	20.5	0	
		12 RB	0	1852.5	18625	19.05	19.5	0-1	
				1880	18900	19.07	19.5	0-1	
				1907.5	19175	19.03	19.5	0-1	
			6	1852.5	18625	19.03	19.5	0-1	
				1880	18900	19.15	19.5	0-1	
				1907.5	19175	19.06	19.5	0-1	
			13	1852.5	18625	19.25	19.5	0-1	
				1880	18900	19.14	19.5	0-1	
				1907.5	19175	19.09	19.5	0-1	
		25RB			1852.5	18625	19.16	19.5	0-1
					1880	18900	19.15	19.5	0-1
					1907.5	19175	19.02	19.5	0-1
	16-QAM	1 RB	0	1852.5	18625	19.32	19.5	0-1	
				1880	18900	19.44	19.5	0-1	
				1907.5	19175	19.46	19.5	0-1	
			12	1852.5	18625	19.12	19.5	0-1	
				1880	18900	19.44	19.5	0-1	
				1907.5	19175	19.41	19.5	0-1	
			24	1852.5	18625	19.30	19.5	0-1	
				1880	18900	19.48	19.5	0-1	
				1907.5	19175	19.45	19.5	0-1	
			12 RB	0	1852.5	18625	18.04	18.5	0-2
					1880	18900	18.05	18.5	0-2
					1907.5	19175	17.90	18.5	0-2
				6	1852.5	18625	18.02	18.5	0-2
					1880	18900	17.97	18.5	0-2
					1907.5	19175	17.98	18.5	0-2
		13	1852.5	18625	18.23	18.5	0-2		
			1880	18900	18.00	18.5	0-2		
			1907.5	19175	18.17	18.5	0-2		
		25RB			1852.5	18625	18.22	18.5	0-2
					1880	18900	18.17	18.5	0-2
					1907.5	19175	18.02	18.5	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	19.29	19.5	0-1
				1880	18900	19.26	19.5	0-1
				1907.5	19175	19.35	19.5	0-1
			12	1852.5	18625	19.46	19.5	0-1
				1880	18900	18.72	19.5	0-1
				1907.5	19175	19.30	19.5	0-1
			24	1852.5	18625	19.24	19.5	0-1
				1880	18900	19.09	19.5	0-1
				1907.5	19175	19.43	19.5	0-1
		12 RB	0	1852.5	18625	18.07	18.5	0-2
				1880	18900	17.81	18.5	0-2
				1907.5	19175	17.95	18.5	0-2
			6	1852.5	18625	18.00	18.5	0-2
				1880	18900	17.76	18.5	0-2
				1907.5	19175	17.85	18.5	0-2
			13	1852.5	18625	17.91	18.5	0-2
				1880	18900	17.68	18.5	0-2
				1907.5	19175	17.88	18.5	0-2
		25RB		1852.5	18625	18.07	18.5	0-2
				1880	18900	17.87	18.5	0-2
				1907.5	19175	17.99	18.5	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	QPSK	1 RB	0	1851.5	18615	20.10	20.5	0
				1880	18900	20.14	20.5	0
				1908.5	19185	20.22	20.5	0
			7	1851.5	18615	20.31	20.5	0
				1880	18900	20.13	20.5	0
				1908.5	19185	20.32	20.5	0
			14	1851.5	18615	20.32	20.5	0
				1880	18900	19.94	20.5	0
				1908.5	19185	20.29	20.5	0
		8 RB	0	1851.5	18615	18.98	19.5	0-1
				1880	18900	19.08	19.5	0-1
				1908.5	19185	19.10	19.5	0-1
			4	1851.5	18615	19.05	19.5	0-1
				1880	18900	19.15	19.5	0-1
				1908.5	19185	19.14	19.5	0-1
			7	1851.5	18615	19.14	19.5	0-1
				1880	18900	19.19	19.5	0-1
				1908.5	19185	19.16	19.5	0-1
		15RB	1851.5	18615	19.07	19.5	0-1	
			1880	18900	19.19	19.5	0-1	
			1908.5	19185	19.04	19.5	0-1	
	16-QAM	1 RB	0	1851.5	18615	19.45	19.5	0-1
				1880	18900	19.47	19.5	0-1
				1908.5	19185	19.20	19.5	0-1
			7	1851.5	18615	18.90	19.5	0-1
				1880	18900	19.41	19.5	0-1
				1908.5	19185	19.20	19.5	0-1
			14	1851.5	18615	19.26	19.5	0-1
				1880	18900	19.44	19.5	0-1
				1908.5	19185	19.49	19.5	0-1
		8 RB	0	1851.5	18615	17.98	18.5	0-2
				1880	18900	18.28	18.5	0-2
				1908.5	19185	18.19	18.5	0-2
			4	1851.5	18615	17.95	18.5	0-2
				1880	18900	18.17	18.5	0-2
				1908.5	19185	18.24	18.5	0-2
			7	1851.5	18615	18.19	18.5	0-2
				1880	18900	18.40	18.5	0-2
				1908.5	19185	18.41	18.5	0-2
		15RB	1851.5	18615	18.14	18.5	0-2	
			1880	18900	18.27	18.5	0-2	
			1908.5	19185	18.32	18.5	0-2	

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FDD Band 2								
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3	64-QAM	1 RB	0	1851.5	18615	19.41	19.5	0-1
				1880	18900	19.47	19.5	0-1
				1908.5	19185	19.15	19.5	0-1
			7	1851.5	18615	18.85	19.5	0-1
				1880	18900	19.38	19.5	0-1
				1908.5	19185	19.18	19.5	0-1
			14	1851.5	18615	19.21	19.5	0-1
				1880	18900	19.34	19.5	0-1
				1908.5	19185	19.41	19.5	0-1
		8 RB	0	1851.5	18615	17.96	18.5	0-2
				1880	18900	18.19	18.5	0-2
				1908.5	19185	18.14	18.5	0-2
			4	1851.5	18615	17.93	18.5	0-2
				1880	18900	18.09	18.5	0-2
				1908.5	19185	18.15	18.5	0-2
			7	1851.5	18615	18.14	18.5	0-2
				1880	18900	18.35	18.5	0-2
				1908.5	19185	18.34	18.5	0-2
		15RB		1851.5	18615	18.10	18.5	0-2
				1880	18900	18.22	18.5	0-2
				1908.5	19185	18.30	18.5	0-2

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1.4	QPSK	1 RB	0	1850.7	18607	20.04	20.5	0
				1880	18900	19.88	20.5	0
				1909.3	19193	19.97	20.5	0
			2	1850.7	18607	20.08	20.5	0
				1880	18900	20.07	20.5	0
				1909.3	19193	20.22	20.5	0
			5	1850.7	18607	19.97	20.5	0
				1880	18900	20.01	20.5	0
				1909.3	19193	20.04	20.5	0
		3 RB	0	1850.7	18607	19.49	19.5	0-1
				1880	18900	19.35	19.5	0-1
				1909.3	19193	19.33	19.5	0-1
			2	1850.7	18607	19.42	19.5	0-1
				1880	18900	19.45	19.5	0-1
				1909.3	19193	19.28	19.5	0-1
			3	1850.7	18607	19.41	19.5	0-1
				1880	18900	19.38	19.5	0-1
				1909.3	19193	19.36	19.5	0-1
		6RB		1850.7	18607	19.16	19.5	0-1
				1880	18900	19.17	19.5	0-1
				1909.3	19193	19.15	19.5	0-1
	16-QAM	1 RB	0	1850.7	18607	19.31	19.5	0-1
				1880	18900	19.47	19.5	0-1
				1909.3	19193	19.49	19.5	0-1
			2	1850.7	18607	19.36	19.5	0-1
				1880	18900	19.42	19.5	0-1
				1909.3	19193	19.45	19.5	0-1
			5	1850.7	18607	18.96	19.5	0-1
				1880	18900	19.21	19.5	0-1
				1909.3	19193	19.40	19.5	0-1
		3 RB	0	1850.7	18607	18.02	18.5	0-2
				1880	18900	18.24	18.5	0-2
				1909.3	19193	18.49	18.5	0-2
			2	1850.7	18607	18.02	18.5	0-2
				1880	18900	18.26	18.5	0-2
				1909.3	19193	18.50	18.5	0-2
			3	1850.7	18607	18.05	18.5	0-2
				1880	18900	18.25	18.5	0-2
				1909.3	19193	18.47	18.5	0-2
		6RB		1850.7	18607	17.87	18.5	0-2
				1880	18900	18.00	18.5	0-2
				1909.3	19193	18.13	18.5	0-2

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1.4	64-QAM	1 RB	0	1850.7	18607	19.21	19.5	0-1
				1880	18900	19.44	19.5	0-1
				1909.3	19193	19.40	19.5	0-1
			2	1850.7	18607	19.31	19.5	0-1
				1880	18900	19.39	19.5	0-1
				1909.3	19193	19.37	19.5	0-1
			5	1850.7	18607	18.92	19.5	0-1
				1880	18900	19.20	19.5	0-1
				1909.3	19193	19.36	19.5	0-1
		3 RB	0	1850.7	18607	17.94	18.5	0-2
				1880	18900	18.20	18.5	0-2
				1909.3	19193	18.44	18.5	0-2
			2	1850.7	18607	18.00	18.5	0-2
				1880	18900	18.18	18.5	0-2
				1909.3	19193	18.46	18.5	0-2
			3	1850.7	18607	17.97	18.5	0-2
				1880	18900	18.19	18.5	0-2
				1909.3	19193	18.37	18.5	0-2
		6RB		1850.7	18607	17.86	18.5	0-2
				1880	18900	17.98	18.5	0-2
				1909.3	19193	18.05	18.5	0-2

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f (886-2) 2298-0488

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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	QPSK	1 RB	0	1720	20050	22.41	24	0
				1732.5	20175	22.19	24	0
				1745	20300	22.32	24	0
			50	1720	20050	22.49	24	0
				1732.5	20175	22.02	24	0
				1745	20300	22.18	24	0
			99	1720	20050	22.21	24	0
				1732.5	20175	22.08	24	0
				1745	20300	22.44	24	0
		50 RB	0	1720	20050	21.42	23	0-1
				1732.5	20175	21.40	23	0-1
				1745	20300	21.31	23	0-1
			25	1720	20050	21.35	23	0-1
				1732.5	20175	21.18	23	0-1
				1745	20300	21.32	23	0-1
			50	1720	20050	21.22	23	0-1
				1732.5	20175	21.19	23	0-1
				1745	20300	21.21	23	0-1
		100RB		1720	20050	21.33	23	0-1
				1732.5	20175	21.27	23	0-1
				1745	20300	21.22	23	0-1
	16-QAM	1 RB	0	1720	20050	21.73	23	0-1
				1732.5	20175	21.54	23	0-1
				1745	20300	22.02	23	0-1
			50	1720	20050	21.91	23	0-1
				1732.5	20175	21.58	23	0-1
				1745	20300	21.70	23	0-1
			99	1720	20050	21.77	23	0-1
				1732.5	20175	21.22	23	0-1
				1745	20300	21.37	23	0-1
		50 RB	0	1720	20050	20.41	22	0-2
				1732.5	20175	20.27	22	0-2
				1745	20300	20.24	22	0-2
			25	1720	20050	20.15	22	0-2
				1732.5	20175	20.21	22	0-2
				1745	20300	20.40	22	0-2
			50	1720	20050	20.33	22	0-2
				1732.5	20175	20.12	22	0-2
				1745	20300	20.18	22	0-2
		100RB		1720	20050	20.27	22	0-2
				1732.5	20175	20.22	22	0-2
				1745	20300	20.18	22	0-2

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f (886-2) 2298-0488

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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	21.73	23	0-1
				1732.5	20175	21.48	23	0-1
				1745	20300	21.99	23	0-1
			50	1720	20050	21.90	23	0-1
				1732.5	20175	21.54	23	0-1
				1745	20300	21.66	23	0-1
			99	1720	20050	21.77	23	0-1
				1732.5	20175	21.16	23	0-1
				1745	20300	21.32	23	0-1
		50 RB	0	1720	20050	20.33	22	0-2
				1732.5	20175	20.21	22	0-2
				1745	20300	20.19	22	0-2
			25	1720	20050	20.07	22	0-2
				1732.5	20175	20.13	22	0-2
				1745	20300	20.39	22	0-2
			50	1720	20050	20.25	22	0-2
				1732.5	20175	20.11	22	0-2
				1745	20300	20.13	22	0-2
		100RB		1720	20050	20.21	22	0-2
				1732.5	20175	20.20	22	0-2
				1745	20300	20.16	22	0-2

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f (886-2) 2298-0488

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BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
15	QPSK	1 RB	0	1717.5	20025	22.41	24	0
				1732.5	20175	22.28	24	0
				1747.5	20325	22.27	24	0
			36	1717.5	20025	22.30	24	0
				1732.5	20175	22.11	24	0
				1747.5	20325	22.17	24	0
			74	1717.5	20025	22.18	24	0
				1732.5	20175	22.13	24	0
				1747.5	20325	22.38	24	0
		36 RB	0	1717.5	20025	21.34	23	0-1
				1732.5	20175	21.44	23	0-1
				1747.5	20325	21.23	23	0-1
			18	1717.5	20025	21.40	23	0-1
				1732.5	20175	21.20	23	0-1
				1747.5	20325	21.23	23	0-1
			37	1717.5	20025	21.24	23	0-1
				1732.5	20175	21.09	23	0-1
				1747.5	20325	21.28	23	0-1
		75RB	1717.5	20025	21.27	23	0-1	
			1732.5	20175	21.35	23	0-1	
			1747.5	20325	21.34	23	0-1	
	16-QAM	1 RB	0	1717.5	20025	21.52	23	0-1
				1732.5	20175	21.90	23	0-1
				1747.5	20325	21.60	23	0-1
			36	1717.5	20025	21.75	23	0-1
				1732.5	20175	21.27	23	0-1
				1747.5	20325	21.48	23	0-1
			74	1717.5	20025	21.65	23	0-1
				1732.5	20175	21.36	23	0-1
				1747.5	20325	21.56	23	0-1
		36 RB	0	1717.5	20025	20.37	22	0-2
				1732.5	20175	20.26	22	0-2
				1747.5	20325	20.33	22	0-2
			18	1717.5	20025	20.30	22	0-2
				1732.5	20175	20.04	22	0-2
				1747.5	20325	20.34	22	0-2
			37	1717.5	20025	20.10	22	0-2
				1732.5	20175	20.08	22	0-2
				1747.5	20325	20.28	22	0-2
		75RB	1717.5	20025	20.31	22	0-2	
			1732.5	20175	20.19	22	0-2	
			1747.5	20325	20.40	22	0-2	

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f (886-2) 2298-0488

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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	21.48	23	0-1
				1732.5	20175	21.84	23	0-1
				1747.5	20325	21.56	23	0-1
			36	1717.5	20025	21.67	23	0-1
				1732.5	20175	21.24	23	0-1
				1747.5	20325	21.38	23	0-1
			74	1717.5	20025	21.60	23	0-1
				1732.5	20175	21.27	23	0-1
				1747.5	20325	21.54	23	0-1
		36 RB	0	1717.5	20025	20.36	22	0-2
				1732.5	20175	20.21	22	0-2
				1747.5	20325	20.28	22	0-2
			18	1717.5	20025	20.29	22	0-2
				1732.5	20175	20.01	22	0-2
				1747.5	20325	20.27	22	0-2
			37	1717.5	20025	20.07	22	0-2
				1732.5	20175	20.01	22	0-2
				1747.5	20325	20.22	22	0-2
		75RB		1717.5	20025	20.24	22	0-2
				1732.5	20175	20.15	22	0-2
				1747.5	20325	20.39	22	0-2

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f (886-2) 2298-0488

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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	22.18	24	0
				1732.5	20175	22.33	24	0
				1750	20350	22.29	24	0
			25	1715	20000	22.32	24	0
				1732.5	20175	22.07	24	0
				1750	20350	22.28	24	0
			49	1715	20000	22.40	24	0
				1732.5	20175	22.02	24	0
				1750	20350	22.27	24	0
		25 RB	0	1715	20000	21.28	23	0-1
				1732.5	20175	21.44	23	0-1
				1750	20350	21.26	23	0-1
			12	1715	20000	21.26	23	0-1
				1732.5	20175	21.18	23	0-1
				1750	20350	21.31	23	0-1
			25	1715	20000	21.38	23	0-1
				1732.5	20175	21.14	23	0-1
				1750	20350	21.28	23	0-1
		50RB		1715	20000	21.39	23	0-1
				1732.5	20175	21.31	23	0-1
				1750	20350	21.40	23	0-1
	16-QAM	1 RB	0	1715	20000	21.54	23	0-1
				1732.5	20175	21.21	23	0-1
				1750	20350	21.08	23	0-1
			25	1715	20000	21.64	23	0-1
				1732.5	20175	21.35	23	0-1
				1750	20350	21.29	23	0-1
			49	1715	20000	21.12	23	0-1
				1732.5	20175	21.06	23	0-1
				1750	20350	21.80	23	0-1
		25 RB	0	1715	20000	20.41	22	0-2
				1732.5	20175	20.36	22	0-2
				1750	20350	20.25	22	0-2
			12	1715	20000	20.31	22	0-2
				1732.5	20175	20.17	22	0-2
				1750	20350	20.30	22	0-2
			25	1715	20000	20.59	22	0-2
				1732.5	20175	20.04	22	0-2
				1750	20350	20.33	22	0-2
		50RB		1715	20000	20.44	22	0-2
				1732.5	20175	20.31	22	0-2
				1750	20350	20.44	22	0-2

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10	64-QAM	1 RB	0	1715	20000	21.50	23	0-1
				1732.5	20175	21.16	23	0-1
				1750	20350	21.04	23	0-1
			25	1715	20000	21.59	23	0-1
				1732.5	20175	21.25	23	0-1
				1750	20350	21.22	23	0-1
			49	1715	20000	21.06	23	0-1
				1732.5	20175	21.14	23	0-1
				1750	20350	21.76	23	0-1
		25 RB	0	1715	20000	20.31	22	0-2
				1732.5	20175	20.31	22	0-2
				1750	20350	20.21	22	0-2
			12	1715	20000	20.24	22	0-2
				1732.5	20175	20.15	22	0-2
				1750	20350	20.23	22	0-2
			25	1715	20000	20.55	22	0-2
				1732.5	20175	20.03	22	0-2
				1750	20350	20.24	22	0-2
		50RB		1715	20000	20.43	22	0-2
				1732.5	20175	20.28	22	0-2
				1750	20350	20.37	22	0-2

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5	QPSK	1 RB	0	1712.5	19975	22.22	24	0
				1732.5	20175	22.39	24	0
				1752.5	20375	22.15	24	0
			12	1712.5	19975	22.32	24	0
				1732.5	20175	22.36	24	0
				1752.5	20375	22.39	24	0
			24	1712.5	19975	22.43	24	0
				1732.5	20175	22.06	24	0
				1752.5	20375	22.34	24	0
		12 RB	0	1712.5	19975	21.25	23	0-1
				1732.5	20175	21.36	23	0-1
				1752.5	20375	21.31	23	0-1
			6	1712.5	19975	21.18	23	0-1
				1732.5	20175	21.24	23	0-1
				1752.5	20375	21.31	23	0-1
			13	1712.5	19975	21.22	23	0-1
				1732.5	20175	21.05	23	0-1
				1752.5	20375	21.37	23	0-1
		25RB		1712.5	19975	21.25	23	0-1
				1732.5	20175	21.39	23	0-1
				1752.5	20375	21.24	23	0-1
	16-QAM	1 RB	0	1712.5	19975	21.42	23	0-1
				1732.5	20175	21.16	23	0-1
				1752.5	20375	21.22	23	0-1
			12	1712.5	19975	21.07	23	0-1
				1732.5	20175	21.34	23	0-1
				1752.5	20375	21.35	23	0-1
			24	1712.5	19975	22.29	23	0-1
				1732.5	20175	21.23	23	0-1
				1752.5	20375	21.70	23	0-1
		12 RB	0	1712.5	19975	20.17	22	0-2
				1732.5	20175	20.31	22	0-2
				1752.5	20375	20.22	22	0-2
			6	1712.5	19975	20.14	22	0-2
				1732.5	20175	20.12	22	0-2
				1752.5	20375	20.20	22	0-2
			13	1712.5	19975	20.10	22	0-2
				1732.5	20175	20.13	22	0-2
				1752.5	20375	20.30	22	0-2
		25RB		1712.5	19975	20.43	22	0-2
				1732.5	20175	20.28	22	0-2
				1752.5	20375	20.52	22	0-2

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f (886-2) 2298-0488

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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	21.36	23	0-1
				1732.5	20175	21.14	23	0-1
				1752.5	20375	21.21	23	0-1
			12	1712.5	19975	21.01	23	0-1
				1732.5	20175	21.29	23	0-1
				1752.5	20375	21.28	23	0-1
			24	1712.5	19975	22.24	23	0-1
				1732.5	20175	21.14	23	0-1
				1752.5	20375	21.64	23	0-1
		12 RB	0	1712.5	19975	20.11	22	0-2
				1732.5	20175	20.26	22	0-2
				1752.5	20375	20.21	22	0-2
			6	1712.5	19975	20.04	22	0-2
				1732.5	20175	20.12	22	0-2
				1752.5	20375	20.11	22	0-2
			13	1712.5	19975	20.01	22	0-2
				1732.5	20175	20.12	22	0-2
				1752.5	20375	20.27	22	0-2
		25RB		1712.5	19975	20.40	22	0-2
				1732.5	20175	20.20	22	0-2
				1752.5	20375	20.47	22	0-2

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t (886-2) 2299-3279

f (886-2) 2298-0488

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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	QPSK	1 RB	0	1711.5	19965	22.31	24	0
				1732.5	20175	22.37	24	0
				1753.5	20385	22.34	24	0
			7	1711.5	19965	22.14	24	0
				1732.5	20175	22.32	24	0
				1753.5	20385	22.39	24	0
			14	1711.5	19965	22.01	24	0
				1732.5	20175	22.08	24	0
				1753.5	20385	22.36	24	0
		8 RB	0	1711.5	19965	21.36	23	0-1
				1732.5	20175	21.40	23	0-1
				1753.5	20385	21.34	23	0-1
			4	1711.5	19965	21.33	23	0-1
				1732.5	20175	21.30	23	0-1
				1753.5	20385	21.32	23	0-1
			7	1711.5	19965	21.21	23	0-1
				1732.5	20175	21.11	23	0-1
				1753.5	20385	21.31	23	0-1
		15RB	1711.5	19965	21.24	23	0-1	
			1732.5	20175	21.20	23	0-1	
			1753.5	20385	21.33	23	0-1	
	16-QAM	1 RB	0	1711.5	19965	21.44	23	0-1
				1732.5	20175	21.23	23	0-1
				1753.5	20385	21.76	23	0-1
			7	1711.5	19965	21.44	23	0-1
				1732.5	20175	21.29	23	0-1
				1753.5	20385	21.75	23	0-1
			14	1711.5	19965	21.71	23	0-1
				1732.5	20175	21.17	23	0-1
				1753.5	20385	21.71	23	0-1
		8 RB	0	1711.5	19965	20.05	22	0-2
				1732.5	20175	20.48	22	0-2
				1753.5	20385	20.04	22	0-2
			4	1711.5	19965	20.15	22	0-2
				1732.5	20175	20.48	22	0-2
				1753.5	20385	20.01	22	0-2
			7	1711.5	19965	20.20	22	0-2
				1732.5	20175	20.17	22	0-2
				1753.5	20385	20.46	22	0-2
		15RB	1711.5	19965	20.30	22	0-2	
			1732.5	20175	20.45	22	0-2	
			1753.5	20385	20.53	22	0-2	

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t (886-2) 2299-3279

f (886-2) 2298-0488

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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	21.40	23	0-1
				1732.5	20175	21.14	23	0-1
				1753.5	20385	21.73	23	0-1
			7	1711.5	19965	21.38	23	0-1
				1732.5	20175	21.27	23	0-1
				1753.5	20385	21.70	23	0-1
			14	1711.5	19965	21.69	23	0-1
				1732.5	20175	21.16	23	0-1
				1753.5	20385	21.63	23	0-1
		8 RB	0	1711.5	19965	20.06	22	0-2
				1732.5	20175	20.39	22	0-2
				1753.5	20385	20.02	22	0-2
			4	1711.5	19965	20.10	22	0-2
				1732.5	20175	20.48	22	0-2
				1753.5	20385	20.12	22	0-2
			7	1711.5	19965	20.15	22	0-2
				1732.5	20175	20.08	22	0-2
				1753.5	20385	20.45	22	0-2
		15RB		1711.5	19965	20.22	22	0-2
				1732.5	20175	20.44	22	0-2
				1753.5	20385	20.49	22	0-2

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f (886-2) 2298-0488

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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	QPSK	1 RB	0	1710.7	19957	22.22	24	0
				1732.5	20175	22.13	24	0
				1754.3	20393	22.09	24	0
			2	1710.7	19957	22.34	24	0
				1732.5	20175	22.24	24	0
				1754.3	20393	22.16	24	0
			5	1710.7	19957	22.19	24	0
				1732.5	20175	22.04	24	0
				1754.3	20393	22.06	24	0
		3 RB	0	1710.7	19957	22.18	23	0-1
				1732.5	20175	22.34	23	0-1
				1754.3	20393	22.14	23	0-1
			2	1710.7	19957	22.27	23	0-1
				1732.5	20175	22.34	23	0-1
				1754.3	20393	22.18	23	0-1
			3	1710.7	19957	22.24	23	0-1
				1732.5	20175	22.19	23	0-1
				1754.3	20393	22.15	23	0-1
		6RB		1710.7	19957	21.23	23	0-1
				1732.5	20175	21.34	23	0-1
				1754.3	20393	21.35	23	0-1
	16-QAM	1 RB	0	1710.7	19957	21.66	23	0-1
				1732.5	20175	21.36	23	0-1
				1754.3	20393	21.65	23	0-1
			2	1710.7	19957	21.67	23	0-1
				1732.5	20175	21.15	23	0-1
				1754.3	20393	21.58	23	0-1
			5	1710.7	19957	21.24	23	0-1
				1732.5	20175	21.39	23	0-1
				1754.3	20393	21.00	23	0-1
		3 RB	0	1710.7	19957	21.23	22	0-2
				1732.5	20175	21.49	22	0-2
				1754.3	20393	21.22	22	0-2
			2	1710.7	19957	21.44	22	0-2
				1732.5	20175	21.43	22	0-2
				1754.3	20393	21.37	22	0-2
			3	1710.7	19957	21.58	22	0-2
				1732.5	20175	21.38	22	0-2
				1754.3	20393	21.27	22	0-2
		6RB		1710.7	19957	21.05	22	0-2
				1732.5	20175	20.24	22	0-2
				1754.3	20393	20.37	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	21.57	23	0-1
				1732.5	20175	21.31	23	0-1
				1754.3	20393	21.60	23	0-1
			2	1710.7	19957	21.60	23	0-1
				1732.5	20175	21.06	23	0-1
				1754.3	20393	21.51	23	0-1
			5	1710.7	19957	21.17	23	0-1
				1732.5	20175	21.33	23	0-1
				1754.3	20393	21.11	23	0-1
		3 RB	0	1710.7	19957	21.22	22	0-2
				1732.5	20175	21.41	22	0-2
				1754.3	20393	21.16	22	0-2
			2	1710.7	19957	21.34	22	0-2
				1732.5	20175	21.39	22	0-2
				1754.3	20393	21.35	22	0-2
			3	1710.7	19957	21.56	22	0-2
				1732.5	20175	21.36	22	0-2
				1754.3	20393	21.21	22	0-2
		6RB		1710.7	19957	21.03	22	0-2
				1732.5	20175	20.14	22	0-2
				1754.3	20393	20.30	22	0-2

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f (886-2) 2298-0488

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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	22.71	24.5	0
				836.5	20525	23.10	24.5	0
				844	20600	22.93	24.5	0
			25	829	20450	22.73	24.5	0
				836.5	20525	22.55	24.5	0
				844	20600	22.82	24.5	0
			49	829	20450	22.73	24.5	0
				836.5	20525	22.87	24.5	0
				844	20600	22.74	24.5	0
		25 RB	0	829	20450	21.74	23.5	0-1
				836.5	20525	21.83	23.5	0-1
				844	20600	21.93	23.5	0-1
			12	829	20450	21.74	23.5	0-1
				836.5	20525	21.71	23.5	0-1
				844	20600	21.80	23.5	0-1
			25	829	20450	21.72	23.5	0-1
				836.5	20525	21.82	23.5	0-1
				844	20600	21.84	23.5	0-1
		50RB	829	20450	21.77	23.5	0-1	
			836.5	20525	21.77	23.5	0-1	
			844	20600	21.91	23.5	0-1	
	16-QAM	1 RB	0	829	20450	21.93	23.5	0-1
				836.5	20525	22.68	23.5	0-1
				844	20600	22.09	23.5	0-1
			25	829	20450	21.78	23.5	0-1
				836.5	20525	21.89	23.5	0-1
				844	20600	21.73	23.5	0-1
			49	829	20450	21.85	23.5	0-1
				836.5	20525	22.28	23.5	0-1
				844	20600	21.59	23.5	0-1
		25 RB	0	829	20450	20.83	22.5	0-2
				836.5	20525	20.68	22.5	0-2
				844	20600	21.16	22.5	0-2
			12	829	20450	20.84	22.5	0-2
				836.5	20525	20.53	22.5	0-2
				844	20600	20.73	22.5	0-2
			25	829	20450	20.79	22.5	0-2
				836.5	20525	20.59	22.5	0-2
				844	20600	20.55	22.5	0-2
		500RB	829	20450	20.60	22.5	0-2	
			836.5	20525	20.66	22.5	0-2	
			844	20600	20.83	22.5	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	21.85	23.5	0-1
				836.5	20525	22.68	23.5	0-1
				844	20600	22.03	23.5	0-1
			25	829	20450	21.66	23.5	0-1
				836.5	20525	21.84	23.5	0-1
				844	20600	21.57	23.5	0-1
			49	829	20450	21.74	23.5	0-1
				836.5	20525	22.22	23.5	0-1
				844	20600	21.57	23.5	0-1
		25 RB	0	829	20450	20.74	22.5	0-2
				836.5	20525	20.61	22.5	0-2
				844	20600	20.99	22.5	0-2
			12	829	20450	20.65	22.5	0-2
				836.5	20525	20.52	22.5	0-2
				844	20600	20.62	22.5	0-2
			25	829	20450	20.60	22.5	0-2
				836.5	20525	20.53	22.5	0-2
				844	20600	20.58	22.5	0-2
		500RB		829	20450	20.55	22.5	0-2
				836.5	20525	20.63	22.5	0-2
				844	20600	20.80	22.5	0-2

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f (886-2) 2298-0488

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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	QPSK	1 RB	0	826.5	20425	22.71	24.5	0
				836.5	20525	23.02	24.5	0
				846.5	20625	22.87	24.5	0
			12	826.5	20425	22.63	24.5	0
				836.5	20525	22.56	24.5	0
				846.5	20625	22.75	24.5	0
			24	826.5	20425	22.72	24.5	0
				836.5	20525	22.84	24.5	0
				846.5	20625	22.72	24.5	0
		12 RB	0	826.5	20425	21.73	23.5	0-1
				836.5	20525	21.74	23.5	0-1
				846.5	20625	21.89	23.5	0-1
			6	826.5	20425	21.64	23.5	0-1
				836.5	20525	21.62	23.5	0-1
				846.5	20625	21.75	23.5	0-1
			13	826.5	20425	21.68	23.5	0-1
				836.5	20525	21.78	23.5	0-1
				846.5	20625	21.77	23.5	0-1
		25RB		826.5	20425	21.71	23.5	0-1
				836.5	20525	21.77	23.5	0-1
				846.5	20625	21.89	23.5	0-1
	16-QAM	1 RB	0	826.5	20425	21.93	23.5	0-1
				836.5	20525	22.67	23.5	0-1
				846.5	20625	22.01	23.5	0-1
			12	826.5	20425	21.77	23.5	0-1
				836.5	20525	21.84	23.5	0-1
				846.5	20625	21.68	23.5	0-1
			24	826.5	20425	21.78	23.5	0-1
				836.5	20525	22.19	23.5	0-1
				846.5	20625	21.50	23.5	0-1
		12 RB	0	826.5	20425	20.77	22.5	0-2
				836.5	20525	20.66	22.5	0-2
				846.5	20625	21.10	22.5	0-2
			6	826.5	20425	20.79	22.5	0-2
				836.5	20525	20.57	22.5	0-2
				846.5	20625	20.72	22.5	0-2
			13	826.5	20425	20.70	22.5	0-2
				836.5	20525	20.56	22.5	0-2
				846.5	20625	20.53	22.5	0-2
		25RB		826.5	20425	20.57	22.5	0-2
				836.5	20525	20.62	22.5	0-2
				846.5	20625	20.82	22.5	0-2

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FDD Band 5								
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5	64-QAM	1 RB	0	826.5	20425	21.80	23.5	0-1
				836.5	20525	22.68	23.5	0-1
				846.5	20625	22.02	23.5	0-1
			12	826.5	20425	21.58	23.5	0-1
				836.5	20525	21.78	23.5	0-1
				846.5	20625	21.55	23.5	0-1
			24	826.5	20425	21.65	23.5	0-1
				836.5	20525	22.19	23.5	0-1
				846.5	20625	21.52	23.5	0-1
		12 RB	0	826.5	20425	20.70	22.5	0-2
				836.5	20525	20.54	22.5	0-2
				846.5	20625	20.90	22.5	0-2
			6	826.5	20425	20.64	22.5	0-2
				836.5	20525	20.50	22.5	0-2
				846.5	20625	20.56	22.5	0-2
			13	826.5	20425	20.57	22.5	0-2
				836.5	20525	20.50	22.5	0-2
				846.5	20625	20.57	22.5	0-2
		25RB		826.5	20425	20.56	22.5	0-2
				836.5	20525	20.56	22.5	0-2
				846.5	20625	20.77	22.5	0-2

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BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
3	QPSK	1 RB	0	825.5	20415	22.63	24.5	0
				836.5	20525	23.01	24.5	0
				847.5	20635	22.89	24.5	0
			7	825.5	20415	22.73	24.5	0
				836.5	20525	22.57	24.5	0
				847.5	20635	22.80	24.5	0
			14	825.5	20415	22.69	24.5	0
				836.5	20525	22.80	24.5	0
				847.5	20635	22.65	24.5	0
		8 RB	0	825.5	20415	21.68	23.5	0-1
				836.5	20525	21.77	23.5	0-1
				847.5	20635	21.89	23.5	0-1
			4	825.5	20415	21.69	23.5	0-1
				836.5	20525	21.65	23.5	0-1
				847.5	20635	21.76	23.5	0-1
			7	825.5	20415	21.71	23.5	0-1
				836.5	20525	21.73	23.5	0-1
				847.5	20635	21.82	23.5	0-1
		15RB		825.5	20415	21.73	23.5	0-1
				836.5	20525	21.69	23.5	0-1
				847.5	20635	21.82	23.5	0-1
	16-QAM	1 RB	0	825.5	20415	21.92	23.5	0-1
				836.5	20525	22.58	23.5	0-1
				847.5	20635	22.07	23.5	0-1
			7	825.5	20415	21.75	23.5	0-1
				836.5	20525	21.88	23.5	0-1
				847.5	20635	21.68	23.5	0-1
			14	825.5	20415	21.77	23.5	0-1
				836.5	20525	22.26	23.5	0-1
				847.5	20635	21.55	23.5	0-1
		8 RB	0	825.5	20415	20.75	22.5	0-2
				836.5	20525	20.63	22.5	0-2
				847.5	20635	21.12	22.5	0-2
			4	825.5	20415	20.76	22.5	0-2
				836.5	20525	20.58	22.5	0-2
				847.5	20635	20.67	22.5	0-2
			7	825.5	20415	20.72	22.5	0-2
				836.5	20525	20.54	22.5	0-2
				847.5	20635	20.53	22.5	0-2
		15RB		825.5	20415	20.57	22.5	0-2
				836.5	20525	20.64	22.5	0-2
				847.5	20635	20.75	22.5	0-2

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FDD Band 5								
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3	64-QAM	1 RB	0	825.5	20415	21.79	23.5	0-1
				836.5	20525	22.62	23.5	0-1
				847.5	20635	21.95	23.5	0-1
			7	825.5	20415	21.61	23.5	0-1
				836.5	20525	21.79	23.5	0-1
				847.5	20635	21.59	23.5	0-1
			14	825.5	20415	21.69	23.5	0-1
				836.5	20525	22.21	23.5	0-1
				847.5	20635	21.58	23.5	0-1
		8 RB	0	825.5	20415	20.64	22.5	0-2
				836.5	20525	20.51	22.5	0-2
				847.5	20635	20.95	22.5	0-2
			4	825.5	20415	20.58	22.5	0-2
				836.5	20525	20.59	22.5	0-2
				847.5	20635	20.56	22.5	0-2
			7	825.5	20415	20.55	22.5	0-2
				836.5	20525	20.53	22.5	0-2
				847.5	20635	20.56	22.5	0-2
		15RB		825.5	20415	20.53	22.5	0-2
				836.5	20525	20.57	22.5	0-2
				847.5	20635	20.76	22.5	0-2

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FDD Band 5								
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1.4	QPSK	1 RB	0	824.7	20407	22.69	24.5	0
				836.5	20525	23.09	24.5	0
				848.3	20643	22.88	24.5	0
			2	824.7	20407	22.63	24.5	0
				836.5	20525	22.59	24.5	0
				848.3	20643	22.78	24.5	0
			5	824.7	20407	22.71	24.5	0
				836.5	20525	22.84	24.5	0
				848.3	20643	22.66	24.5	0
		3 RB	0	824.7	20407	21.72	23.5	0-1
				836.5	20525	21.75	23.5	0-1
				848.3	20643	21.93	23.5	0-1
			2	824.7	20407	21.66	23.5	0-1
				836.5	20525	21.61	23.5	0-1
				848.3	20643	21.77	23.5	0-1
			3	824.7	20407	21.70	23.5	0-1
				836.5	20525	21.79	23.5	0-1
				848.3	20643	21.75	23.5	0-1
		6RB		824.7	20407	21.73	23.5	0-1
				836.5	20525	21.70	23.5	0-1
				848.3	20643	21.87	23.5	0-1
	16-QAM	1 RB	0	824.7	20407	21.93	23.5	0-1
				836.5	20525	22.59	23.5	0-1
				848.3	20643	22.01	23.5	0-1
			2	824.7	20407	21.69	23.5	0-1
				836.5	20525	21.82	23.5	0-1
				848.3	20643	21.67	23.5	0-1
			5	824.7	20407	21.75	23.5	0-1
				836.5	20525	22.23	23.5	0-1
				848.3	20643	21.54	23.5	0-1
		3 RB	0	824.7	20407	20.73	22.5	0-2
				836.5	20525	20.66	22.5	0-2
				848.3	20643	21.08	22.5	0-2
			2	824.7	20407	20.77	22.5	0-2
				836.5	20525	20.52	22.5	0-2
				848.3	20643	20.69	22.5	0-2
			3	824.7	20407	20.73	22.5	0-2
				836.5	20525	20.55	22.5	0-2
				848.3	20643	20.56	22.5	0-2
		6RB		824.7	20407	20.54	22.5	0-2
				836.5	20525	20.63	22.5	0-2
				848.3	20643	20.79	22.5	0-2

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1.4	64-QAM	1 RB	0	824.7	20407	21.83	23.5	0-1
				836.5	20525	22.58	23.5	0-1
				848.3	20643	21.98	23.5	0-1
			2	824.7	20407	21.65	23.5	0-1
				836.5	20525	21.74	23.5	0-1
				848.3	20643	21.52	23.5	0-1
			5	824.7	20407	21.68	23.5	0-1
				836.5	20525	22.16	23.5	0-1
				848.3	20643	21.57	23.5	0-1
		3 RB	0	824.7	20407	20.68	22.5	0-2
				836.5	20525	20.54	22.5	0-2
				848.3	20643	20.95	22.5	0-2
			2	824.7	20407	20.60	22.5	0-2
				836.5	20525	20.50	22.5	0-2
				848.3	20643	20.55	22.5	0-2
			3	824.7	20407	20.50	22.5	0-2
				836.5	20525	20.59	22.5	0-2
				848.3	20643	20.57	22.5	0-2
		6RB		824.7	20407	20.51	22.5	0-2
				836.5	20525	20.59	22.5	0-2
				848.3	20643	20.78	22.5	0-2

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t (886-2) 2299-3279

f (886-2) 2298-0488

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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	23.39	24.5	0
				2535	21100	23.23	24.5	0
				2560	21350	23.44	24.5	0
			50	2510	20850	23.10	24.5	0
				2535	21100	23.55	24.5	0
				2560	21350	23.17	24.5	0
			99	2510	20850	23.01	24.5	0
				2535	21100	23.36	24.5	0
				2560	21350	23.49	24.5	0
		50 RB	0	2510	20850	22.41	23.5	0-1
				2535	21100	22.41	23.5	0-1
				2560	21350	22.43	23.5	0-1
			25	2510	20850	22.24	23.5	0-1
				2535	21100	22.37	23.5	0-1
				2560	21350	22.40	23.5	0-1
			50	2510	20850	22.22	23.5	0-1
				2535	21100	22.43	23.5	0-1
				2560	21350	22.59	23.5	0-1
		100RB		2510	20850	22.37	23.5	0-1
				2535	21100	22.42	23.5	0-1
				2560	21350	22.39	23.5	0-1
	16-QAM	1 RB	0	2510	20850	22.66	23.5	0-1
				2535	21100	22.32	23.5	0-1
				2560	21350	22.71	23.5	0-1
			50	2510	20850	22.39	23.5	0-1
				2535	21100	22.74	23.5	0-1
				2560	21350	22.76	23.5	0-1
			99	2510	20850	22.61	23.5	0-1
				2535	21100	22.74	23.5	0-1
				2560	21350	22.95	23.5	0-1
		50 RB	0	2510	20850	21.42	22.5	0-2
				2535	21100	21.39	22.5	0-2
				2560	21350	21.41	22.5	0-2
			25	2510	20850	21.17	22.5	0-2
				2535	21100	21.68	22.5	0-2
				2560	21350	21.39	22.5	0-2
			50	2510	20850	21.26	22.5	0-2
				2535	21100	21.52	22.5	0-2
				2560	21350	21.60	22.5	0-2
		100RB		2510	20850	21.29	22.5	0-2
				2535	21100	21.58	22.5	0-2
				2560	21350	21.54	22.5	0-2

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f (886-2) 2298-0488

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20	64-QAM	1 RB	0	2510	20850	22.65	23.5	0-1
				2535	21100	22.30	23.5	0-1
				2560	21350	22.67	23.5	0-1
			50	2510	20850	22.36	23.5	0-1
				2535	21100	22.73	23.5	0-1
				2560	21350	22.74	23.5	0-1
			99	2510	20850	22.59	23.5	0-1
				2535	21100	22.72	23.5	0-1
				2560	21350	22.95	23.5	0-1
		50 RB	0	2510	20850	21.38	22.5	0-2
				2535	21100	21.35	22.5	0-2
				2560	21350	21.40	22.5	0-2
			25	2510	20850	21.16	22.5	0-2
				2535	21100	21.68	22.5	0-2
				2560	21350	21.38	22.5	0-2
			50	2510	20850	21.23	22.5	0-2
				2535	21100	21.50	22.5	0-2
				2560	21350	21.56	22.5	0-2
		100RB		2510	20850	21.24	22.5	0-2
				2535	21100	21.54	22.5	0-2
				2560	21350	21.50	22.5	0-2

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f (886-2) 2298-0488

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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	QPSK	1 RB	0	2507.5	20825	23.37	24.5	0
				2535	21100	23.26	24.5	0
				2562.5	21375	23.35	24.5	0
			36	2507.5	20825	23.05	24.5	0
				2535	21100	23.29	24.5	0
				2562.5	21375	23.22	24.5	0
			74	2507.5	20825	23.00	24.5	0
				2535	21100	23.23	24.5	0
				2562.5	21375	23.52	24.5	0
		36 RB	0	2507.5	20825	22.32	23.5	0-1
				2535	21100	22.29	23.5	0-1
				2562.5	21375	22.35	23.5	0-1
			18	2507.5	20825	22.16	23.5	0-1
				2535	21100	22.28	23.5	0-1
				2562.5	21375	22.39	23.5	0-1
			37	2507.5	20825	22.21	23.5	0-1
				2535	21100	22.53	23.5	0-1
				2562.5	21375	22.48	23.5	0-1
		75RB		2507.5	20825	22.23	23.5	0-1
				2535	21100	22.32	23.5	0-1
				2562.5	21375	22.44	23.5	0-1
	16-QAM	1 RB	0	2507.5	20825	22.73	23.5	0-1
				2535	21100	22.42	23.5	0-1
				2562.5	21375	22.48	23.5	0-1
			36	2507.5	20825	22.14	23.5	0-1
				2535	21100	22.03	23.5	0-1
				2562.5	21375	22.22	23.5	0-1
			74	2507.5	20825	22.02	23.5	0-1
				2535	21100	22.16	23.5	0-1
				2562.5	21375	23.15	23.5	0-1
		36 RB	0	2507.5	20825	21.36	22.5	0-2
				2535	21100	21.35	22.5	0-2
				2562.5	21375	21.20	22.5	0-2
			18	2507.5	20825	21.31	22.5	0-2
				2535	21100	21.41	22.5	0-2
				2562.5	21375	21.44	22.5	0-2
			37	2507.5	20825	21.29	22.5	0-2
				2535	21100	21.60	22.5	0-2
				2562.5	21375	21.56	22.5	0-2
		75RB		2507.5	20825	21.19	22.5	0-2
				2535	21100	21.43	22.5	0-2
				2562.5	21375	21.56	22.5	0-2

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f (886-2) 2298-0488

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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	22.63	23.5	0-1
				2535	21100	22.28	23.5	0-1
				2562.5	21375	22.69	23.5	0-1
			36	2507.5	20825	22.34	23.5	0-1
				2535	21100	22.70	23.5	0-1
				2562.5	21375	22.72	23.5	0-1
			74	2507.5	20825	22.58	23.5	0-1
				2535	21100	22.70	23.5	0-1
				2562.5	21375	22.93	23.5	0-1
		36 RB	0	2507.5	20825	21.41	22.5	0-2
				2535	21100	21.39	22.5	0-2
				2562.5	21375	21.36	22.5	0-2
			18	2507.5	20825	21.15	22.5	0-2
				2535	21100	21.64	22.5	0-2
				2562.5	21375	21.34	22.5	0-2
			37	2507.5	20825	21.26	22.5	0-2
				2535	21100	21.50	22.5	0-2
				2562.5	21375	21.55	22.5	0-2
		75RB		2507.5	20825	21.24	22.5	0-2
				2535	21100	21.56	22.5	0-2
				2562.5	21375	21.54	22.5	0-2

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f (886-2) 2298-0488

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FDD Band 7								
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10	QPSK	1 RB	0	2505	20800	23.42	24.5	0
				2535	21100	23.02	24.5	0
				2565	21400	23.08	24.5	0
			25	2505	20800	23.00	24.5	0
				2535	21100	23.41	24.5	0
				2565	21400	23.36	24.5	0
			49	2505	20800	23.08	24.5	0
				2535	21100	23.25	24.5	0
				2565	21400	23.49	24.5	0
		25 RB	0	2505	20800	22.39	23.5	0-1
				2535	21100	22.27	23.5	0-1
				2565	21400	22.30	23.5	0-1
			12	2505	20800	22.22	23.5	0-1
				2535	21100	22.39	23.5	0-1
				2565	21400	22.53	23.5	0-1
			25	2505	20800	22.11	23.5	0-1
				2535	21100	22.43	23.5	0-1
				2565	21400	22.51	23.5	0-1
		50RB	2505	20800	22.32	23.5	0-1	
			2535	21100	22.35	23.5	0-1	
			2565	21400	22.49	23.5	0-1	
	16-QAM	1 RB	0	2505	20800	22.40	23.5	0-1
				2535	21100	22.08	23.5	0-1
				2565	21400	22.49	23.5	0-1
			25	2505	20800	22.07	23.5	0-1
				2535	21100	22.52	23.5	0-1
				2565	21400	22.83	23.5	0-1
			49	2505	20800	22.00	23.5	0-1
				2535	21100	23.25	23.5	0-1
				2565	21400	22.21	23.5	0-1
		25 RB	0	2505	20800	21.41	22.5	0-2
				2535	21100	21.27	22.5	0-2
				2565	21400	21.37	22.5	0-2
			12	2505	20800	21.50	22.5	0-2
				2535	21100	21.39	22.5	0-2
				2565	21400	21.54	22.5	0-2
			25	2505	20800	21.41	22.5	0-2
				2535	21100	21.52	22.5	0-2
				2565	21400	21.50	22.5	0-2
		50RB	2505	20800	21.33	22.5	0-2	
			2535	21100	21.33	22.5	0-2	
			2565	21400	21.59	22.5	0-2	

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10	64-QAM	1 RB	0	2505	20800	22.63	23.5	0-1
				2535	21100	22.32	23.5	0-1
				2565	21400	22.66	23.5	0-1
			25	2505	20800	22.39	23.5	0-1
				2535	21100	22.71	23.5	0-1
				2565	21400	22.74	23.5	0-1
			49	2505	20800	22.58	23.5	0-1
				2535	21100	22.73	23.5	0-1
				2565	21400	22.93	23.5	0-1
		25 RB	0	2505	20800	21.38	22.5	0-2
				2535	21100	21.36	22.5	0-2
				2565	21400	21.39	22.5	0-2
			12	2505	20800	21.14	22.5	0-2
				2535	21100	21.64	22.5	0-2
				2565	21400	21.36	22.5	0-2
			25	2505	20800	21.24	22.5	0-2
				2535	21100	21.47	22.5	0-2
				2565	21400	21.59	22.5	0-2
		50RB		2505	20800	21.28	22.5	0-2
				2535	21100	21.58	22.5	0-2
				2565	21400	21.51	22.5	0-2

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t (886-2) 2299-3279

f (886-2) 2298-0488

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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	QPSK	1 RB	0	2502.5	20775	23.45	24.5	0
				2535	21100	23.03	24.5	0
				2567.5	21425	23.29	24.5	0
			12	2502.5	20775	23.31	24.5	0
				2535	21100	23.12	24.5	0
				2567.5	21425	23.51	24.5	0
			24	2502.5	20775	23.09	24.5	0
				2535	21100	23.24	24.5	0
				2567.5	21425	23.24	24.5	0
		12 RB	0	2502.5	20775	22.32	23.5	0-1
				2535	21100	22.21	23.5	0-1
				2567.5	21425	22.39	23.5	0-1
			6	2502.5	20775	22.28	23.5	0-1
				2535	21100	22.22	23.5	0-1
				2567.5	21425	22.41	23.5	0-1
			13	2502.5	20775	22.19	23.5	0-1
				2535	21100	22.37	23.5	0-1
				2567.5	21425	22.43	23.5	0-1
		25RB		2502.5	20775	22.33	23.5	0-1
				2535	21100	22.26	23.5	0-1
				2567.5	21425	22.36	23.5	0-1
	16-QAM	1 RB	0	2502.5	20775	22.57	23.5	0-1
				2535	21100	22.63	23.5	0-1
				2567.5	21425	22.37	23.5	0-1
			12	2502.5	20775	22.05	23.5	0-1
				2535	21100	22.48	23.5	0-1
				2567.5	21425	22.36	23.5	0-1
			24	2502.5	20775	22.16	23.5	0-1
				2535	21100	22.43	23.5	0-1
				2567.5	21425	22.31	23.5	0-1
		12 RB	0	2502.5	20775	21.38	22.5	0-2
				2535	21100	21.19	22.5	0-2
				2567.5	21425	21.40	22.5	0-2
			6	2502.5	20775	21.37	22.5	0-2
				2535	21100	21.30	22.5	0-2
				2567.5	21425	21.46	22.5	0-2
			13	2502.5	20775	21.24	22.5	0-2
				2535	21100	21.36	22.5	0-2
				2567.5	21425	21.55	22.5	0-2
		25RB		2502.5	20775	21.28	22.5	0-2
				2535	21100	21.29	22.5	0-2
				2567.5	21425	21.57	22.5	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	22.64	23.5	0-1
				2535	21100	22.30	23.5	0-1
				2567.5	21425	22.68	23.5	0-1
			12	2502.5	20775	22.38	23.5	0-1
				2535	21100	22.74	23.5	0-1
				2567.5	21425	22.72	23.5	0-1
			24	2502.5	20775	22.59	23.5	0-1
				2535	21100	22.72	23.5	0-1
				2567.5	21425	22.92	23.5	0-1
		12 RB	0	2502.5	20775	21.38	22.5	0-2
				2535	21100	21.35	22.5	0-2
				2567.5	21425	21.41	22.5	0-2
			6	2502.5	20775	21.15	22.5	0-2
				2535	21100	21.63	22.5	0-2
				2567.5	21425	21.39	22.5	0-2
			13	2502.5	20775	21.23	22.5	0-2
				2535	21100	21.52	22.5	0-2
				2567.5	21425	21.59	22.5	0-2
		25RB		2502.5	20775	21.25	22.5	0-2
				2535	21100	21.57	22.5	0-2
				2567.5	21425	21.52	22.5	0-2

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f (886-2) 2298-0488

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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	QPSK	1 RB	0	704	23060	23.49	23.5	0
				707.5	23095	23.05	23.5	0
				711	23130	23.01	23.5	0
			25	704	23060	23.45	23.5	0
				707.5	23095	23.34	23.5	0
				711	23130	23.24	23.5	0
			49	704	23060	23.23	23.5	0
				707.5	23095	23.26	23.5	0
				711	23130	23.20	23.5	0
		25 RB	0	704	23060	22.14	22.5	0-1
				707.5	23095	22.12	22.5	0-1
				711	23130	22.25	22.5	0-1
			12	704	23060	22.11	22.5	0-1
				707.5	23095	22.31	22.5	0-1
				711	23130	22.29	22.5	0-1
			25	704	23060	22.29	22.5	0-1
				707.5	23095	22.17	22.5	0-1
				711	23130	22.19	22.5	0-1
		50RB	704	23060	22.24	22.5	0-1	
			707.5	23095	22.14	22.5	0-1	
			711	23130	22.17	22.5	0-1	
	16-QAM	1 RB	0	704	23060	21.91	22.5	0-1
				707.5	23095	22.08	22.5	0-1
				711	23130	22.33	22.5	0-1
			25	704	23060	22.48	22.5	0-1
				707.5	23095	22.10	22.5	0-1
				711	23130	21.79	22.5	0-1
			49	704	23060	22.00	22.5	0-1
				707.5	23095	21.95	22.5	0-1
				711	23130	21.70	22.5	0-1
		25 RB	0	704	23060	21.35	21.5	0-2
				707.5	23095	21.38	21.5	0-2
				711	23130	21.49	21.5	0-2
			12	704	23060	21.24	21.5	0-2
				707.5	23095	21.41	21.5	0-2
				711	23130	21.48	21.5	0-2
			25	704	23060	21.45	21.5	0-2
				707.5	23095	21.48	21.5	0-2
				711	23130	21.34	21.5	0-2
		50RB	704	23060	21.06	21.5	0-2	
			707.5	23095	21.34	21.5	0-2	
			711	23130	21.36	21.5	0-2	

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f (886-2) 2298-0488

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FDD Band 12								
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10	64-QAM	1 RB	0	704	23060	21.87	22.5	0-1
				707.5	23095	22.08	22.5	0-1
				711	23130	22.24	22.5	0-1
			25	704	23060	22.46	22.5	0-1
				707.5	23095	22.10	22.5	0-1
				711	23130	21.72	22.5	0-1
			49	704	23060	21.97	22.5	0-1
				707.5	23095	21.87	22.5	0-1
				711	23130	21.65	22.5	0-1
		25 RB	0	704	23060	21.31	21.5	0-2
				707.5	23095	21.37	21.5	0-2
				711	23130	21.42	21.5	0-2
			12	704	23060	21.18	21.5	0-2
				707.5	23095	21.34	21.5	0-2
				711	23130	21.42	21.5	0-2
			25	704	23060	21.41	21.5	0-2
				707.5	23095	21.43	21.5	0-2
				711	23130	21.34	21.5	0-2
		50RB		704	23060	21.05	21.5	0-2
				707.5	23095	21.22	21.5	0-2
				711	23130	21.34	21.5	0-2

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f (886-2) 2298-0488

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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	QPSK	1 RB	0	701.5	23035	23.42	23.5	0	
				707.5	23095	23.04	23.5	0	
				713.5	23155	22.91	23.5	0	
			12	701.5	23035	23.42	23.5	0	
				707.5	23095	23.21	23.5	0	
				713.5	23155	23.14	23.5	0	
			24	701.5	23035	23.14	23.5	0	
				707.5	23095	23.23	23.5	0	
				713.5	23155	23.09	23.5	0	
		12 RB	0	701.5	23035	22.11	22.5	0-1	
				707.5	23095	22.01	22.5	0-1	
				713.5	23155	22.19	22.5	0-1	
			6	701.5	23035	22.05	22.5	0-1	
				707.5	23095	22.28	22.5	0-1	
				713.5	23155	22.16	22.5	0-1	
			13	701.5	23035	22.27	22.5	0-1	
				707.5	23095	22.15	22.5	0-1	
				713.5	23155	22.09	22.5	0-1	
		25RB			701.5	23035	22.11	22.5	0-1
					707.5	23095	22.11	22.5	0-1
					713.5	23155	22.14	22.5	0-1
	16-QAM	1 RB	0	701.5	23035	21.85	22.5	0-1	
				707.5	23095	21.96	22.5	0-1	
				713.5	23155	22.31	22.5	0-1	
			12	701.5	23035	22.47	22.5	0-1	
				707.5	23095	22.02	22.5	0-1	
				713.5	23155	21.72	22.5	0-1	
			24	701.5	23035	21.91	22.5	0-1	
				707.5	23095	21.88	22.5	0-1	
				713.5	23155	21.59	22.5	0-1	
		12 RB	0	701.5	23035	21.30	21.5	0-2	
				707.5	23095	21.32	21.5	0-2	
				713.5	23155	21.35	21.5	0-2	
			6	701.5	23035	21.16	21.5	0-2	
				707.5	23095	21.35	21.5	0-2	
				713.5	23155	21.39	21.5	0-2	
			13	701.5	23035	21.36	21.5	0-2	
				707.5	23095	21.45	21.5	0-2	
				713.5	23155	21.29	21.5	0-2	
		25RB			701.5	23035	21.03	21.5	0-2
					707.5	23095	21.22	21.5	0-2
					713.5	23155	21.36	21.5	0-2

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5	64-QAM	1 RB	0	701.5	23035	21.83	22.5	0-1
				707.5	23095	21.94	22.5	0-1
				713.5	23155	22.16	22.5	0-1
			12	701.5	23035	22.41	22.5	0-1
				707.5	23095	22.09	22.5	0-1
				713.5	23155	21.65	22.5	0-1
			24	701.5	23035	21.92	22.5	0-1
				707.5	23095	21.83	22.5	0-1
				713.5	23155	21.60	22.5	0-1
		12 RB	0	701.5	23035	21.24	21.5	0-2
				707.5	23095	21.33	21.5	0-2
				713.5	23155	21.37	21.5	0-2
			6	701.5	23035	21.04	21.5	0-2
				707.5	23095	21.29	21.5	0-2
				713.5	23155	21.38	21.5	0-2
			13	701.5	23035	21.38	21.5	0-2
				707.5	23095	21.38	21.5	0-2
				713.5	23155	21.20	21.5	0-2
		25RB		701.5	23035	21.00	21.5	0-2
				707.5	23095	21.18	21.5	0-2
				713.5	23155	21.33	21.5	0-2

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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	700.5	23025	23.41	23.5	0
				707.5	23095	23.01	23.5	0
				714.5	23165	22.88	23.5	0
			7	700.5	23025	23.43	23.5	0
				707.5	23095	23.30	23.5	0
				714.5	23165	23.10	23.5	0
			14	700.5	23025	23.17	23.5	0
				707.5	23095	23.19	23.5	0
				714.5	23165	23.10	23.5	0
		8 RB	0	700.5	23025	22.01	22.5	0-1
				707.5	23095	22.00	22.5	0-1
				714.5	23165	22.23	22.5	0-1
			4	700.5	23025	22.00	22.5	0-1
				707.5	23095	22.28	22.5	0-1
				714.5	23165	22.18	22.5	0-1
			7	700.5	23025	22.16	22.5	0-1
				707.5	23095	22.06	22.5	0-1
				714.5	23165	22.12	22.5	0-1
		15RB		700.5	23025	22.10	22.5	0-1
				707.5	23095	22.13	22.5	0-1
				714.5	23165	22.10	22.5	0-1
	16-QAM	1 RB	0	700.5	23025	21.86	22.5	0-1
				707.5	23095	22.04	22.5	0-1
				714.5	23165	22.25	22.5	0-1
			7	700.5	23025	22.42	22.5	0-1
				707.5	23095	22.07	22.5	0-1
				714.5	23165	21.72	22.5	0-1
			14	700.5	23025	21.93	22.5	0-1
				707.5	23095	21.92	22.5	0-1
				714.5	23165	21.64	22.5	0-1
		8 RB	0	700.5	23025	21.25	21.5	0-2
				707.5	23095	21.29	21.5	0-2
				714.5	23165	21.38	21.5	0-2
			4	700.5	23025	21.13	21.5	0-2
				707.5	23095	21.30	21.5	0-2
				714.5	23165	21.47	21.5	0-2
			7	700.5	23025	21.33	21.5	0-2
				707.5	23095	21.35	21.5	0-2
				714.5	23165	21.30	21.5	0-2
		15RB		700.5	23025	20.93	21.5	0-2
				707.5	23095	21.22	21.5	0-2
				714.5	23165	21.29	21.5	0-2

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t (886-2) 2299-3279

f (886-2) 2298-0488

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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	21.74	22.5	0-1
				707.5	23095	22.05	22.5	0-1
				714.5	23165	22.17	22.5	0-1
			7	700.5	23025	22.45	22.5	0-1
				707.5	23095	22.07	22.5	0-1
				714.5	23165	21.60	22.5	0-1
			14	700.5	23025	21.83	22.5	0-1
				707.5	23095	21.79	22.5	0-1
				714.5	23165	21.64	22.5	0-1
		8 RB	0	700.5	23025	21.18	21.5	0-2
				707.5	23095	21.31	21.5	0-2
				714.5	23165	21.37	21.5	0-2
			4	700.5	23025	21.09	21.5	0-2
				707.5	23095	21.33	21.5	0-2
				714.5	23165	21.35	21.5	0-2
			7	700.5	23025	21.30	21.5	0-2
				707.5	23095	21.38	21.5	0-2
				714.5	23165	21.33	21.5	0-2
		15RB		700.5	23025	20.97	21.5	0-2
				707.5	23095	21.14	21.5	0-2
				714.5	23165	21.31	21.5	0-2

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t (886-2) 2299-3279

f (886-2) 2298-0488

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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	QPSK	1 RB	0	699.7	23017	23.29	23.5	0
				707.5	23095	22.93	23.5	0
				715.3	23173	22.80	23.5	0
			2	699.7	23017	23.37	23.5	0
				707.5	23095	23.28	23.5	0
				715.3	23173	23.05	23.5	0
			5	699.7	23017	23.04	23.5	0
				707.5	23095	23.07	23.5	0
				715.3	23173	23.05	23.5	0
		3 RB	0	699.7	23017	21.99	22.5	0-1
				707.5	23095	21.88	22.5	0-1
				715.3	23173	22.20	22.5	0-1
			2	699.7	23017	21.96	22.5	0-1
				707.5	23095	22.21	22.5	0-1
				715.3	23173	22.07	22.5	0-1
			3	699.7	23017	22.11	22.5	0-1
				707.5	23095	21.96	22.5	0-1
				715.3	23173	21.99	22.5	0-1
		6RB		699.7	23017	22.07	22.5	0-1
				707.5	23095	22.03	22.5	0-1
				715.3	23173	22.00	22.5	0-1
	16-QAM	1 RB	0	699.7	23017	21.81	22.5	0-1
				707.5	23095	21.93	22.5	0-1
				715.3	23173	22.24	22.5	0-1
			2	699.7	23017	22.38	22.5	0-1
				707.5	23095	22.06	22.5	0-1
				715.3	23173	21.59	22.5	0-1
			5	699.7	23017	21.92	22.5	0-1
				707.5	23095	21.86	22.5	0-1
				715.3	23173	21.52	22.5	0-1
		3 RB	0	699.7	23017	21.13	21.5	0-2
				707.5	23095	21.19	21.5	0-2
				715.3	23173	21.28	21.5	0-2
			2	699.7	23017	21.01	21.5	0-2
				707.5	23095	21.19	21.5	0-2
				715.3	23173	21.37	21.5	0-2
			3	699.7	23017	21.24	21.5	0-2
				707.5	23095	21.25	21.5	0-2
				715.3	23173	21.16	21.5	0-2
		6RB		699.7	23017	20.88	21.5	0-2
				707.5	23095	21.21	21.5	0-2
				715.3	23173	21.18	21.5	0-2

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t (886-2) 2299-3279

f (886-2) 2298-0488

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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	21.71	22.5	0-1
				707.5	23095	21.94	22.5	0-1
				715.3	23173	22.12	22.5	0-1
			2	699.7	23017	22.33	22.5	0-1
				707.5	23095	22.03	22.5	0-1
				715.3	23173	21.59	22.5	0-1
			5	699.7	23017	21.78	22.5	0-1
				707.5	23095	21.68	22.5	0-1
				715.3	23173	21.63	22.5	0-1
		3 RB	0	699.7	23017	21.11	21.5	0-2
				707.5	23095	21.26	21.5	0-2
				715.3	23173	21.36	21.5	0-2
			2	699.7	23017	21.06	21.5	0-2
				707.5	23095	21.20	21.5	0-2
				715.3	23173	21.24	21.5	0-2
			3	699.7	23017	21.21	21.5	0-2
				707.5	23095	21.28	21.5	0-2
				715.3	23173	21.23	21.5	0-2
		6RB		699.7	23017	20.95	21.5	0-2
				707.5	23095	21.01	21.5	0-2
				715.3	23173	21.30	21.5	0-2

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t (886-2) 2299-3279

f (886-2) 2298-0488

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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	23.45	23.5	0
			25	782	23230	23.24	23.5	0
			49	782	23230	23.34	23.5	0
		25 RB	0	782	23230	22.40	22.5	0-1
			12	782	23230	22.32	22.5	0-1
			25	782	23230	22.28	22.5	0-1
		50RB		782	23230	22.35	22.5	0-1
	16-QAM	1 RB	0	782	23230	22.49	22.5	0-1
			25	782	23230	22.44	22.5	0-1
			49	782	23230	22.41	22.5	0-1
		25 RB	0	782	23230	21.25	21.5	0-2
			12	782	23230	21.50	21.5	0-2
			25	782	23230	21.44	21.5	0-2
		50RB		782	23230	21.32	21.5	0-2
	64-QAM	1 RB	0	782	23230	22.46	22.5	0-1
			25	782	23230	22.41	22.5	0-1
			49	782	23230	22.37	22.5	0-1
		25 RB	0	782	23230	21.20	21.5	0-2
			12	782	23230	21.48	21.5	0-2
			25	782	23230	21.37	21.5	0-2
		50RB		782	23230	21.31	21.5	0-2

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t (886-2) 2299-3279

f (886-2) 2298-0488

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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	QPSK	1 RB	0	779.5	23205	23.39	23.5	0	
				782	23230	23.42	23.5	0	
				784.5	23255	23.39	23.5	0	
			12	779.5	23205	23.43	23.5	0	
				782	23230	23.40	23.5	0	
				784.5	23255	23.41	23.5	0	
			24	779.5	23205	23.35	23.5	0	
				782	23230	23.22	23.5	0	
				784.5	23255	23.37	23.5	0	
		12 RB	0	779.5	23205	22.34	22.5	0-1	
				782	23230	22.29	22.5	0-1	
				784.5	23255	22.28	22.5	0-1	
			6	779.5	23205	22.32	22.5	0-1	
				782	23230	22.22	22.5	0-1	
				784.5	23255	22.31	22.5	0-1	
			13	779.5	23205	22.20	22.5	0-1	
				782	23230	22.20	22.5	0-1	
				784.5	23255	22.38	22.5	0-1	
		25RB			779.5	23205	22.32	22.5	0-1
					782	23230	22.27	22.5	0-1
					784.5	23255	22.26	22.5	0-1
	16-QAM	1 RB	0	779.5	23205	22.20	22.5	0-1	
				782	23230	22.48	22.5	0-1	
				784.5	23255	22.28	22.5	0-1	
			12	779.5	23205	21.73	22.5	0-1	
				782	23230	22.25	22.5	0-1	
				784.5	23255	22.44	22.5	0-1	
			24	779.5	23205	22.30	22.5	0-1	
				782	23230	21.91	22.5	0-1	
				784.5	23255	22.47	22.5	0-1	
		12 RB	0	779.5	23205	21.28	21.5	0-2	
				782	23230	21.29	21.5	0-2	
				784.5	23255	21.27	21.5	0-2	
			6	779.5	23205	21.26	21.5	0-2	
				782	23230	21.25	21.5	0-2	
				784.5	23255	21.16	21.5	0-2	
			13	779.5	23205	21.21	21.5	0-2	
				782	23230	21.06	21.5	0-2	
				784.5	23255	21.23	21.5	0-2	
		25RB			779.5	23205	21.46	21.5	0-2
					782	23230	21.48	21.5	0-2
					784.5	23255	21.28	21.5	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	22.15	22.5	0-1
				782	23230	22.47	22.5	0-1
				784.5	23255	22.23	22.5	0-1
			12	779.5	23205	21.67	22.5	0-1
				782	23230	22.19	22.5	0-1
				784.5	23255	22.40	22.5	0-1
			24	779.5	23205	22.26	22.5	0-1
				782	23230	21.80	22.5	0-1
				784.5	23255	22.42	22.5	0-1
		12 RB	0	779.5	23205	21.16	21.5	0-2
				782	23230	21.16	21.5	0-2
				784.5	23255	21.21	21.5	0-2
			6	779.5	23205	21.20	21.5	0-2
				782	23230	21.15	21.5	0-2
				784.5	23255	21.05	21.5	0-2
			13	779.5	23205	21.11	21.5	0-2
				782	23230	20.99	21.5	0-2
				784.5	23255	21.12	21.5	0-2
		25RB		779.5	23205	21.36	21.5	0-2
				782	23230	21.41	21.5	0-2
				784.5	23255	21.26	21.5	0-2

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

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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	QPSK	1 RB	0	1860	26140	20.26	20.5	0
				1882.5	26365	20.31	20.5	0
				1905	26590	20.29	20.5	0
			50	1860	26140	20.14	20.5	0
				1882.5	26365	20.13	20.5	0
				1905	26590	20.34	20.5	0
			99	1860	26140	20.22	20.5	0
				1882.5	26365	20.05	20.5	0
				1905	26590	20.46	20.5	0
		50 RB	0	1860	26140	19.26	19.5	0-1
				1882.5	26365	19.14	19.5	0-1
				1905	26590	19.29	19.5	0-1
			25	1860	26140	19.19	19.5	0-1
				1882.5	26365	19.16	19.5	0-1
				1905	26590	19.27	19.5	0-1
			50	1860	26140	19.32	19.5	0-1
				1882.5	26365	19.11	19.5	0-1
				1905	26590	19.26	19.5	0-1
		100RB		1860	26140	19.33	19.5	0-1
				1882.5	26365	19.19	19.5	0-1
				1905	26590	19.30	19.5	0-1
	16-QAM	1 RB	0	1860	26140	19.49	19.5	0-1
				1882.5	26365	19.43	19.5	0-1
				1905	26590	19.42	19.5	0-1
			50	1860	26140	19.38	19.5	0-1
				1882.5	26365	19.48	19.5	0-1
				1905	26590	19.38	19.5	0-1
			99	1860	26140	19.49	19.5	0-1
				1882.5	26365	19.41	19.5	0-1
				1905	26590	19.28	19.5	0-1
		50 RB	0	1860	26140	18.30	18.5	0-2
				1882.5	26365	18.21	18.5	0-2
				1905	26590	18.26	18.5	0-2
			25	1860	26140	18.36	18.5	0-2
				1882.5	26365	18.21	18.5	0-2
				1905	26590	18.28	18.5	0-2
			50	1860	26140	18.36	18.5	0-2
				1882.5	26365	18.25	18.5	0-2
				1905	26590	18.25	18.5	0-2
		100RB		1860	26140	18.42	18.5	0-2
				1882.5	26365	18.25	18.5	0-2
				1905	26590	18.37	18.5	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	19.42	19.5	0-1
				1882.5	26365	19.40	19.5	0-1
				1905	26590	19.34	19.5	0-1
			50	1860	26140	19.34	19.5	0-1
				1882.5	26365	19.38	19.5	0-1
				1905	26590	19.29	19.5	0-1
			99	1860	26140	19.47	19.5	0-1
				1882.5	26365	19.37	19.5	0-1
				1905	26590	19.28	19.5	0-1
		50 RB	0	1860	26140	18.27	18.5	0-2
				1882.5	26365	18.17	18.5	0-2
				1905	26590	18.17	18.5	0-2
			25	1860	26140	18.27	18.5	0-2
				1882.5	26365	18.18	18.5	0-2
				1905	26590	18.18	18.5	0-2
			50	1860	26140	18.30	18.5	0-2
				1882.5	26365	18.13	18.5	0-2
				1905	26590	18.16	18.5	0-2
		100RB		1860	26140	18.28	18.5	0-2
				1882.5	26365	18.14	18.5	0-2
				1905	26590	18.34	18.5	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	QPSK	1 RB	0	1857.5	26115	20.43	20.5	0	
				1882.5	26365	20.31	20.5	0	
				1907.5	26615	20.33	20.5	0	
			36	1857.5	26115	20.33	20.5	0	
				1882.5	26365	20.05	20.5	0	
				1907.5	26615	20.14	20.5	0	
			74	1857.5	26115	20.41	20.5	0	
				1882.5	26365	20.02	20.5	0	
				1907.5	26615	20.39	20.5	0	
		36 RB	0	1857.5	26115	19.22	19.5	0-1	
				1882.5	26365	19.17	19.5	0-1	
				1907.5	26615	19.24	19.5	0-1	
			18	1857.5	26115	19.20	19.5	0-1	
				1882.5	26365	19.14	19.5	0-1	
				1907.5	26615	19.25	19.5	0-1	
			37	1857.5	26115	19.28	19.5	0-1	
				1882.5	26365	19.15	19.5	0-1	
				1907.5	26615	19.37	19.5	0-1	
		75RB			1857.5	26115	19.27	19.5	0-1
					1882.5	26365	19.13	19.5	0-1
					1907.5	26615	19.28	19.5	0-1
	16-QAM	1 RB	0	1857.5	26115	19.36	19.5	0-1	
				1882.5	26365	19.46	19.5	0-1	
				1907.5	26615	19.36	19.5	0-1	
			36	1857.5	26115	19.47	19.5	0-1	
				1882.5	26365	19.39	19.5	0-1	
				1907.5	26615	19.41	19.5	0-1	
			74	1857.5	26115	19.49	19.5	0-1	
				1882.5	26365	19.44	19.5	0-1	
				1907.5	26615	19.39	19.5	0-1	
		36 RB	0	1857.5	26115	18.36	18.5	0-2	
				1882.5	26365	18.21	18.5	0-2	
				1907.5	26615	18.38	18.5	0-2	
			18	1857.5	26115	18.31	18.5	0-2	
				1882.5	26365	18.18	18.5	0-2	
				1907.5	26615	18.30	18.5	0-2	
			37	1857.5	26115	18.27	18.5	0-2	
				1882.5	26365	18.19	18.5	0-2	
				1907.5	26615	18.29	18.5	0-2	
		75RB			1857.5	26115	18.34	18.5	0-2
					1882.5	26365	18.29	18.5	0-2
					1907.5	26615	18.20	18.5	0-2

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FDD Band 25								
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15	64-QAM	1 RB	0	1857.5	26115	19.26	19.5	0-1
				1882.5	26365	19.40	19.5	0-1
				1907.5	26615	19.25	19.5	0-1
			36	1857.5	26115	19.33	19.5	0-1
				1882.5	26365	19.36	19.5	0-1
				1907.5	26615	19.37	19.5	0-1
			74	1857.5	26115	19.42	19.5	0-1
				1882.5	26365	19.40	19.5	0-1
				1907.5	26615	19.27	19.5	0-1
		36 RB	0	1857.5	26115	18.32	18.5	0-2
				1882.5	26365	18.15	18.5	0-2
				1907.5	26615	18.25	18.5	0-2
			18	1857.5	26115	18.20	18.5	0-2
				1882.5	26365	18.10	18.5	0-2
				1907.5	26615	18.21	18.5	0-2
			37	1857.5	26115	18.20	18.5	0-2
				1882.5	26365	18.11	18.5	0-2
				1907.5	26615	18.21	18.5	0-2
		75RB		1857.5	26115	18.31	18.5	0-2
				1882.5	26365	18.24	18.5	0-2
				1907.5	26615	18.10	18.5	0-2

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FDD Band 25								
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10	QPSK	1 RB	0	1855	26090	20.45	20.5	0
				1882.5	26365	20.27	20.5	0
				1910	26640	20.25	20.5	0
			25	1855	26090	20.39	20.5	0
				1882.5	26365	20.38	20.5	0
				1910	26640	20.30	20.5	0
			49	1855	26090	20.41	20.5	0
				1882.5	26365	20.36	20.5	0
				1910	26640	20.16	20.5	0
		25 RB	0	1855	26090	19.29	19.5	0-1
				1882.5	26365	19.19	19.5	0-1
				1910	26640	19.30	19.5	0-1
			12	1855	26090	19.42	19.5	0-1
				1882.5	26365	19.17	19.5	0-1
				1910	26640	19.35	19.5	0-1
			25	1855	26090	19.15	19.5	0-1
				1882.5	26365	19.17	19.5	0-1
				1910	26640	19.37	19.5	0-1
		50RB		1855	26090	19.27	19.5	0-1
				1882.5	26365	19.13	19.5	0-1
				1910	26640	19.32	19.5	0-1
	16-QAM	1 RB	0	1855	26090	19.44	19.5	0-1
				1882.5	26365	19.17	19.5	0-1
				1910	26640	19.42	19.5	0-1
			25	1855	26090	19.49	19.5	0-1
				1882.5	26365	19.24	19.5	0-1
				1910	26640	19.41	19.5	0-1
			49	1855	26090	19.42	19.5	0-1
				1882.5	26365	19.42	19.5	0-1
				1910	26640	19.44	19.5	0-1
		25 RB	0	1855	26090	18.20	18.5	0-2
				1882.5	26365	18.09	18.5	0-2
				1910	26640	18.40	18.5	0-2
			12	1855	26090	18.28	18.5	0-2
				1882.5	26365	18.07	18.5	0-2
				1910	26640	18.44	18.5	0-2
			25	1855	26090	18.16	18.5	0-2
				1882.5	26365	18.12	18.5	0-2
				1910	26640	18.17	18.5	0-2
		50RB		1855	26090	18.33	18.5	0-2
				1882.5	26365	18.13	18.5	0-2
				1910	26640	18.46	18.5	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	19.30	19.5	0-1
				1882.5	26365	19.34	19.5	0-1
				1910	26640	19.26	19.5	0-1
			25	1855	26090	19.42	19.5	0-1
				1882.5	26365	19.28	19.5	0-1
				1910	26640	19.39	19.5	0-1
			49	1855	26090	19.46	19.5	0-1
				1882.5	26365	19.38	19.5	0-1
				1910	26640	19.29	19.5	0-1
		25 RB	0	1855	26090	18.28	18.5	0-2
				1882.5	26365	18.16	18.5	0-2
				1910	26640	18.37	18.5	0-2
			12	1855	26090	18.21	18.5	0-2
				1882.5	26365	18.12	18.5	0-2
				1910	26640	18.17	18.5	0-2
			25	1855	26090	18.13	18.5	0-2
				1882.5	26365	18.14	18.5	0-2
				1910	26640	18.25	18.5	0-2
		50RB		1855	26090	18.29	18.5	0-2
				1882.5	26365	18.19	18.5	0-2
				1910	26640	18.18	18.5	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	QPSK	1 RB	0	1852.5	26065	20.15	20.5	0	
				1882.5	26365	20.20	20.5	0	
				1912.5	26665	20.30	20.5	0	
			12	1852.5	26065	20.40	20.5	0	
				1882.5	26365	20.13	20.5	0	
				1912.5	26665	20.45	20.5	0	
			24	1852.5	26065	20.24	20.5	0	
				1882.5	26365	20.17	20.5	0	
				1912.5	26665	20.42	20.5	0	
		12 RB	0	1852.5	26065	19.24	19.5	0-1	
				1882.5	26365	19.13	19.5	0-1	
				1912.5	26665	19.24	19.5	0-1	
			6	1852.5	26065	19.20	19.5	0-1	
				1882.5	26365	19.08	19.5	0-1	
				1912.5	26665	19.29	19.5	0-1	
			13	1852.5	26065	19.18	19.5	0-1	
				1882.5	26365	19.19	19.5	0-1	
				1912.5	26665	19.36	19.5	0-1	
		25RB		1852.5	26065	19.23	19.5	0-1	
				1882.5	26365	19.09	19.5	0-1	
				1912.5	26665	19.30	19.5	0-1	
		16-QAM	1 RB	0	1852.5	26065	19.35	19.5	0-1
					1882.5	26365	19.31	19.5	0-1
					1912.5	26665	19.47	19.5	0-1
				12	1852.5	26065	19.42	19.5	0-1
					1882.5	26365	19.07	19.5	0-1
					1912.5	26665	19.46	19.5	0-1
	24			1852.5	26065	19.44	19.5	0-1	
				1882.5	26365	19.38	19.5	0-1	
				1912.5	26665	19.47	19.5	0-1	
	12 RB			0	1852.5	26065	18.16	18.5	0-2
					1882.5	26365	18.08	18.5	0-2
					1912.5	26665	18.40	18.5	0-2
				6	1852.5	26065	18.28	18.5	0-2
					1882.5	26365	17.97	18.5	0-2
					1912.5	26665	18.37	18.5	0-2
			13	1852.5	26065	18.19	18.5	0-2	
				1882.5	26365	18.22	18.5	0-2	
				1912.5	26665	18.41	18.5	0-2	
	25RB		1852.5	26065	18.26	18.5	0-2		
			1882.5	26365	18.21	18.5	0-2		
			1912.5	26665	18.24	18.5	0-2		

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f (886-2) 2298-0488

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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	19.26	19.5	0-1
				1882.5	26365	19.42	19.5	0-1
				1912.5	26665	19.33	19.5	0-1
			12	1852.5	26065	19.36	19.5	0-1
				1882.5	26365	19.30	19.5	0-1
				1912.5	26665	19.28	19.5	0-1
			24	1852.5	26065	19.44	19.5	0-1
				1882.5	26365	19.40	19.5	0-1
				1912.5	26665	19.38	19.5	0-1
		12 RB	0	1852.5	26065	18.22	18.5	0-2
				1882.5	26365	18.19	18.5	0-2
				1912.5	26665	18.32	18.5	0-2
			6	1852.5	26065	18.18	18.5	0-2
				1882.5	26365	18.06	18.5	0-2
				1912.5	26665	18.24	18.5	0-2
			13	1852.5	26065	18.16	18.5	0-2
				1882.5	26365	18.19	18.5	0-2
				1912.5	26665	18.19	18.5	0-2
		25RB		1852.5	26065	18.22	18.5	0-2
				1882.5	26365	18.26	18.5	0-2
				1912.5	26665	18.17	18.5	0-2

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t (886-2) 2299-3279

f (886-2) 2298-0488

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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	QPSK	1 RB	0	1851.5	26055	20.41	20.5	0
				1882.5	26365	20.26	20.5	0
				1913.5	26675	20.33	20.5	0
			7	1851.5	26055	20.44	20.5	0
				1882.5	26365	20.24	20.5	0
				1913.5	26675	20.24	20.5	0
			14	1851.5	26055	20.40	20.5	0
				1882.5	26365	20.39	20.5	0
				1913.5	26675	20.36	20.5	0
		8 RB	0	1851.5	26055	19.28	19.5	0-1
				1882.5	26365	19.11	19.5	0-1
				1913.5	26675	19.24	19.5	0-1
			4	1851.5	26055	19.26	19.5	0-1
				1882.5	26365	19.06	19.5	0-1
				1913.5	26675	19.37	19.5	0-1
			7	1851.5	26055	19.26	19.5	0-1
				1882.5	26365	19.15	19.5	0-1
				1913.5	26675	19.29	19.5	0-1
		15RB		1851.5	26055	19.28	19.5	0-1
				1882.5	26365	19.10	19.5	0-1
				1913.5	26675	19.29	19.5	0-1
	16-QAM	1 RB	0	1851.5	26055	19.48	19.5	0-1
				1882.5	26365	19.34	19.5	0-1
				1913.5	26675	19.43	19.5	0-1
			7	1851.5	26055	19.48	19.5	0-1
				1882.5	26365	19.01	19.5	0-1
				1913.5	26675	19.31	19.5	0-1
			14	1851.5	26055	19.49	19.5	0-1
				1882.5	26365	19.47	19.5	0-1
				1913.5	26675	19.46	19.5	0-1
		8 RB	0	1851.5	26055	18.47	18.5	0-2
				1882.5	26365	18.10	18.5	0-2
				1913.5	26675	18.44	18.5	0-2
			4	1851.5	26055	18.43	18.5	0-2
				1882.5	26365	18.20	18.5	0-2
				1913.5	26675	18.34	18.5	0-2
			7	1851.5	26055	18.49	18.5	0-2
				1882.5	26365	18.38	18.5	0-2
				1913.5	26675	18.48	18.5	0-2
		15RB		1851.5	26055	18.38	18.5	0-2
				1882.5	26365	18.08	18.5	0-2
				1913.5	26675	18.38	18.5	0-2

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f (886-2) 2298-0488

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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	19.35	19.5	0-1
				1882.5	26365	19.34	19.5	0-1
				1913.5	26675	19.32	19.5	0-1
			7	1851.5	26055	19.48	19.5	0-1
				1882.5	26365	18.98	19.5	0-1
				1913.5	26675	19.31	19.5	0-1
			14	1851.5	26055	19.35	19.5	0-1
				1882.5	26365	19.35	19.5	0-1
				1913.5	26675	19.44	19.5	0-1
		8 RB	0	1851.5	26055	18.40	18.5	0-2
				1882.5	26365	18.01	18.5	0-2
				1913.5	26675	18.43	18.5	0-2
			4	1851.5	26055	18.37	18.5	0-2
				1882.5	26365	18.17	18.5	0-2
				1913.5	26675	18.30	18.5	0-2
			7	1851.5	26055	18.44	18.5	0-2
				1882.5	26365	18.23	18.5	0-2
				1913.5	26675	18.38	18.5	0-2
		15RB		1851.5	26055	18.32	18.5	0-2
				1882.5	26365	17.98	18.5	0-2
				1913.5	26675	18.29	18.5	0-2

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t (886-2) 2299-3279

f (886-2) 2298-0488

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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	QPSK	1 RB	0	1850.7	26047	20.38	20.5	0
				1882.5	26365	20.21	20.5	0
				1914.3	26683	20.30	20.5	0
			2	1850.7	26047	20.38	20.5	0
				1882.5	26365	20.20	20.5	0
				1914.3	26683	20.15	20.5	0
			5	1850.7	26047	20.36	20.5	0
				1882.5	26365	20.28	20.5	0
				1914.3	26683	20.33	20.5	0
		3 RB	0	1850.7	26047	19.27	19.5	0-1
				1882.5	26365	19.06	19.5	0-1
				1914.3	26683	19.19	19.5	0-1
			2	1850.7	26047	19.21	19.5	0-1
				1882.5	26365	19.00	19.5	0-1
				1914.3	26683	19.28	19.5	0-1
			3	1850.7	26047	19.24	19.5	0-1
				1882.5	26365	19.13	19.5	0-1
				1914.3	26683	19.28	19.5	0-1
		6RB		1850.7	26047	19.27	19.5	0-1
				1882.5	26365	19.05	19.5	0-1
				1914.3	26683	19.18	19.5	0-1
	16-QAM	1 RB	0	1850.7	26047	19.44	19.5	0-1
				1882.5	26365	19.24	19.5	0-1
				1914.3	26683	19.30	19.5	0-1
			2	1850.7	26047	19.38	19.5	0-1
				1882.5	26365	18.95	19.5	0-1
				1914.3	26683	19.21	19.5	0-1
			5	1850.7	26047	19.38	19.5	0-1
				1882.5	26365	19.34	19.5	0-1
				1914.3	26683	19.35	19.5	0-1
		3 RB	0	1850.7	26047	18.43	18.5	0-2
				1882.5	26365	18.05	18.5	0-2
				1914.3	26683	18.41	18.5	0-2
			2	1850.7	26047	18.34	18.5	0-2
				1882.5	26365	18.14	18.5	0-2
				1914.3	26683	18.22	18.5	0-2
			3	1850.7	26047	18.43	18.5	0-2
				1882.5	26365	18.30	18.5	0-2
				1914.3	26683	18.45	18.5	0-2
		6RB		1850.7	26047	18.28	18.5	0-2
				1882.5	26365	18.05	18.5	0-2
				1914.3	26683	18.32	18.5	0-2

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f (886-2) 2298-0488

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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	19.28	19.5	0-1
				1882.5	26365	19.33	19.5	0-1
				1914.3	26683	19.23	19.5	0-1
			2	1850.7	26047	19.45	19.5	0-1
				1882.5	26365	18.90	19.5	0-1
				1914.3	26683	19.26	19.5	0-1
			5	1850.7	26047	19.23	19.5	0-1
				1882.5	26365	19.22	19.5	0-1
				1914.3	26683	19.40	19.5	0-1
		3 RB	0	1850.7	26047	18.33	18.5	0-2
				1882.5	26365	17.91	18.5	0-2
				1914.3	26683	18.39	18.5	0-2
			2	1850.7	26047	18.31	18.5	0-2
				1882.5	26365	18.10	18.5	0-2
				1914.3	26683	18.19	18.5	0-2
			3	1850.7	26047	18.32	18.5	0-2
				1882.5	26365	18.15	18.5	0-2
				1914.3	26683	18.32	18.5	0-2
		6RB		1850.7	26047	18.20	18.5	0-2
				1882.5	26365	17.93	18.5	0-2
				1914.3	26683	18.24	18.5	0-2

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f (886-2) 2298-0488

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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	22.67	24	0
				831.5	26865	22.68	24	0
				841.5	26965	23.05	24	0
			36	821.5	26765	22.26	24	0
				831.5	26865	22.64	24	0
				841.5	26965	22.36	24	0
			74	821.5	26765	22.61	24	0
				831.5	26865	22.69	24	0
				841.5	26965	22.52	24	0
		36 RB	0	821.5	26765	21.78	23	0-1
				831.5	26865	21.80	23	0-1
				841.5	26965	21.75	23	0-1
			18	821.5	26765	21.69	23	0-1
				831.5	26865	21.87	23	0-1
				841.5	26965	21.61	23	0-1
			37	821.5	26765	21.64	23	0-1
				831.5	26865	21.72	23	0-1
				841.5	26965	21.65	23	0-1
		75RB	821.5	26765	21.66	23	0-1	
			831.5	26865	21.77	23	0-1	
			841.5	26965	21.78	23	0-1	
	16-QAM	1 RB	0	821.5	26765	21.91	23	0-1
				831.5	26865	22.23	23	0-1
				841.5	26965	22.68	23	0-1
			36	821.5	26765	22.03	23	0-1
				831.5	26865	22.00	23	0-1
				841.5	26965	21.96	23	0-1
			74	821.5	26765	21.78	23	0-1
				831.5	26865	21.68	23	0-1
				841.5	26965	21.68	23	0-1
		36 RB	0	821.5	26765	20.87	22	0-2
				831.5	26865	20.69	22	0-2
				841.5	26965	20.73	22	0-2
			18	821.5	26765	20.47	22	0-2
				831.5	26865	20.76	22	0-2
				841.5	26965	20.47	22	0-2
			37	821.5	26765	20.65	22	0-2
				831.5	26865	20.77	22	0-2
				841.5	26965	20.71	22	0-2
		75RB	821.5	26765	20.74	22	0-2	
			831.5	26865	20.82	22	0-2	
			841.5	26965	20.67	22	0-2	

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t (886-2) 2299-3279

f (886-2) 2298-0488

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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	21.86	23	0-1
				831.5	26865	22.14	23	0-1
				841.5	26965	22.67	23	0-1
			36	821.5	26765	22.00	23	0-1
				831.5	26865	21.89	23	0-1
				841.5	26965	21.91	23	0-1
			74	821.5	26765	21.66	23	0-1
				831.5	26865	21.60	23	0-1
				841.5	26965	21.49	23	0-1
		36 RB	0	821.5	26765	20.80	22	0-2
				831.5	26865	20.65	22	0-2
				841.5	26965	20.66	22	0-2
			18	821.5	26765	20.38	22	0-2
				831.5	26865	20.60	22	0-2
				841.5	26965	20.33	22	0-2
			37	821.5	26765	20.57	22	0-2
				831.5	26865	20.72	22	0-2
				841.5	26965	20.67	22	0-2
		75RB		821.5	26765	20.68	22	0-2
				831.5	26865	20.80	22	0-2
				841.5	26965	20.59	22	0-2

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t (886-2) 2299-3279

f (886-2) 2298-0488

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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	22.58	24	0
				831.5	26865	22.55	24	0
				844	26990	22.76	24	0
			25	819	26740	22.57	24	0
				831.5	26865	22.61	24	0
				844	26990	22.88	24	0
			49	819	26740	22.68	24	0
				831.5	26865	22.64	24	0
				844	26990	22.48	24	0
		25 RB	0	819	26740	21.66	23	0-1
				831.5	26865	21.71	23	0-1
				844	26990	21.65	23	0-1
			12	819	26740	21.62	23	0-1
				831.5	26865	21.80	23	0-1
				844	26990	21.68	23	0-1
			25	819	26740	21.68	23	0-1
				831.5	26865	21.80	23	0-1
				844	26990	21.63	23	0-1
		50RB		819	26740	21.75	23	0-1
				831.5	26865	21.75	23	0-1
				844	26990	21.72	23	0-1
	16-QAM	1 RB	0	819	26740	22.26	23	0-1
				831.5	26865	22.22	23	0-1
				844	26990	22.26	23	0-1
			25	819	26740	21.77	23	0-1
				831.5	26865	22.71	23	0-1
				844	26990	22.19	23	0-1
			49	819	26740	21.87	23	0-1
				831.5	26865	22.34	23	0-1
				844	26990	21.52	23	0-1
		25 RB	0	819	26740	20.79	22	0-2
				831.5	26865	20.93	22	0-2
				844	26990	20.67	22	0-2
			12	819	26740	20.62	22	0-2
				831.5	26865	20.95	22	0-2
				844	26990	20.98	22	0-2
			25	819	26740	20.68	22	0-2
				831.5	26865	20.93	22	0-2
				844	26990	20.95	22	0-2
		50RB		819	26740	20.78	22	0-2
				831.5	26865	20.72	22	0-2
				844	26990	20.81	22	0-2

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t (886-2) 2299-3279

f (886-2) 2298-0488

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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	0-1
				831.5	26865	22.13	23	0-1
				844	26990	22.53	23	0-1
			25	819	26740	21.87	23	0-1
				831.5	26865	21.83	23	0-1
				844	26990	21.81	23	0-1
			49	819	26740	21.60	23	0-1
				831.5	26865	21.68	23	0-1
				844	26990	21.63	23	0-1
		25 RB	0	819	26740	20.80	22	0-2
				831.5	26865	20.51	22	0-2
				844	26990	20.73	22	0-2
			12	819	26740	20.38	22	0-2
				831.5	26865	20.67	22	0-2
				844	26990	20.44	22	0-2
			25	819	26740	20.65	22	0-2
				831.5	26865	20.71	22	0-2
				844	26990	20.58	22	0-2
		50RB		819	26740	20.62	22	0-2
				831.5	26865	20.64	22	0-2
				844	26990	20.51	22	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	QPSK	1 RB	0	816.5	26715	22.79	24	0	
				831.5	26865	22.73	24	0	
				846.5	27015	22.62	24	0	
			12	816.5	26715	22.44	24	0	
				831.5	26865	22.93	24	0	
				846.5	27015	22.79	24	0	
			24	816.5	26715	22.40	24	0	
				831.5	26865	22.85	24	0	
				846.5	27015	22.31	24	0	
		12 RB	0	816.5	26715	21.75	23	0-1	
				831.5	26865	21.75	23	0-1	
				846.5	27015	21.58	23	0-1	
			6	816.5	26715	21.68	23	0-1	
				831.5	26865	21.72	23	0-1	
				846.5	27015	21.53	23	0-1	
			13	816.5	26715	21.71	23	0-1	
				831.5	26865	21.78	23	0-1	
				846.5	27015	21.54	23	0-1	
		25RB			816.5	26715	21.69	23	0-1
					831.5	26865	21.73	23	0-1
					846.5	27015	21.67	23	0-1
	16-QAM	1 RB	0	816.5	26715	22.42	23	0-1	
				831.5	26865	21.33	23	0-1	
				846.5	27015	21.74	23	0-1	
			12	816.5	26715	21.90	23	0-1	
				831.5	26865	21.81	23	0-1	
				846.5	27015	21.98	23	0-1	
			24	816.5	26715	21.73	23	0-1	
				831.5	26865	21.83	23	0-1	
				846.5	27015	21.47	23	0-1	
		12 RB	0	816.5	26715	21.03	22	0-2	
				831.5	26865	20.78	22	0-2	
				846.5	27015	20.47	22	0-2	
			6	816.5	26715	20.53	22	0-2	
				831.5	26865	20.76	22	0-2	
				846.5	27015	20.36	22	0-2	
			13	816.5	26715	20.46	22	0-2	
				831.5	26865	20.81	22	0-2	
				846.5	27015	20.43	22	0-2	
		25RB			816.5	26715	20.77	22	0-2
					831.5	26865	20.78	22	0-2
					846.5	27015	20.58	22	0-2

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f (886-2) 2298-0488

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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	21.85	23	0-1
				831.5	26865	22.14	23	0-1
				846.5	27015	22.53	23	0-1
			12	816.5	26715	21.96	23	0-1
				831.5	26865	21.91	23	0-1
				846.5	27015	21.89	23	0-1
			24	816.5	26715	21.78	23	0-1
				831.5	26865	21.66	23	0-1
				846.5	27015	21.53	23	0-1
		12 RB	0	816.5	26715	20.83	22	0-2
				831.5	26865	20.67	22	0-2
				846.5	27015	20.59	22	0-2
			6	816.5	26715	20.42	22	0-2
				831.5	26865	20.57	22	0-2
				846.5	27015	20.36	22	0-2
			13	816.5	26715	20.57	22	0-2
				831.5	26865	20.65	22	0-2
				846.5	27015	20.54	22	0-2
		25RB		816.5	26715	20.57	22	0-2
				831.5	26865	20.68	22	0-2
				846.5	27015	20.60	22	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	QPSK	1 RB	0	815.5	26705	22.63	24	0	
				831.5	26865	22.83	24	0	
				847.5	27025	22.63	24	0	
			7	815.5	26705	22.83	24	0	
				831.5	26865	23.00	24	0	
				847.5	27025	22.56	24	0	
			14	815.5	26705	22.69	24	0	
				831.5	26865	23.03	24	0	
				847.5	27025	22.34	24	0	
		8 RB	0	815.5	26705	21.80	23	0-1	
				831.5	26865	21.82	23	0-1	
				847.5	27025	21.63	23	0-1	
			4	815.5	26705	21.72	23	0-1	
				831.5	26865	21.81	23	0-1	
				847.5	27025	21.74	23	0-1	
			7	815.5	26705	21.77	23	0-1	
				831.5	26865	21.79	23	0-1	
				847.5	27025	21.54	23	0-1	
		15RB			815.5	26705	21.71	23	0-1
					831.5	26865	21.82	23	0-1
					847.5	27025	21.59	23	0-1
	16-QAM	1 RB	0	815.5	26705	21.84	23	0-1	
				831.5	26865	21.98	23	0-1	
				847.5	27025	22.02	23	0-1	
			7	815.5	26705	21.58	23	0-1	
				831.5	26865	21.77	23	0-1	
				847.5	27025	21.61	23	0-1	
			14	815.5	26705	22.22	23	0-1	
				831.5	26865	21.66	23	0-1	
				847.5	27025	21.36	23	0-1	
		8 RB	0	815.5	26705	20.92	22	0-2	
				831.5	26865	20.59	22	0-2	
				847.5	27025	20.57	22	0-2	
			4	815.5	26705	20.86	22	0-2	
				831.5	26865	20.89	22	0-2	
				847.5	27025	20.23	22	0-2	
			7	815.5	26705	21.01	22	0-2	
				831.5	26865	20.73	22	0-2	
				847.5	27025	20.39	22	0-2	
		15RB			815.5	26705	20.87	22	0-2
					831.5	26865	20.75	22	0-2
					847.5	27025	20.19	22	0-2

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3	64-QAM	1 RB	0	815.5	26705	21.90	23	0-1
				831.5	26865	22.16	23	0-1
				847.5	27025	22.64	23	0-1
			7	815.5	26705	21.93	23	0-1
				831.5	26865	21.84	23	0-1
				847.5	27025	21.96	23	0-1
			14	815.5	26705	21.60	23	0-1
				831.5	26865	21.53	23	0-1
				847.5	27025	21.61	23	0-1
		8 RB	0	815.5	26705	20.76	22	0-2
				831.5	26865	20.64	22	0-2
				847.5	27025	20.64	22	0-2
			4	815.5	26705	20.44	22	0-2
				831.5	26865	20.69	22	0-2
				847.5	27025	20.38	22	0-2
			7	815.5	26705	20.49	22	0-2
				831.5	26865	20.59	22	0-2
				847.5	27025	20.51	22	0-2
		15RB		815.5	26705	20.74	22	0-2
				831.5	26865	20.70	22	0-2
				847.5	27025	20.55	22	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	QPSK	1 RB	0	814.7	26697	22.70	24	0
				831.5	26865	22.65	24	0
				848.3	27033	22.49	24	0
			2	814.7	26697	22.72	24	0
				831.5	26865	22.74	24	0
				848.3	27033	22.54	24	0
			5	814.7	26697	22.65	24	0
				831.5	26865	22.70	24	0
				848.3	27033	22.31	24	0
		3 RB	0	814.7	26697	22.82	23	0-1
				831.5	26865	22.80	23	0-1
				848.3	27033	22.51	23	0-1
			2	814.7	26697	22.77	23	0-1
				831.5	26865	22.75	23	0-1
				848.3	27033	22.39	23	0-1
			3	814.7	26697	22.78	23	0-1
				831.5	26865	22.84	23	0-1
				848.3	27033	22.37	23	0-1
		6RB		814.7	26697	21.86	23	0-1
				831.5	26865	21.75	23	0-1
				848.3	27033	21.50	23	0-1
	16-QAM	1 RB	0	814.7	26697	22.30	23	0-1
				831.5	26865	21.82	23	0-1
				848.3	27033	21.77	23	0-1
			2	814.7	26697	22.07	23	0-1
				831.5	26865	22.13	23	0-1
				848.3	27033	21.40	23	0-1
			5	814.7	26697	21.85	23	0-1
				831.5	26865	22.11	23	0-1
				848.3	27033	21.03	23	0-1
		3 RB	0	814.7	26697	21.89	22	0-2
				831.5	26865	21.95	22	0-2
				848.3	27033	21.42	22	0-2
			2	814.7	26697	21.84	22	0-2
				831.5	26865	21.96	22	0-2
				848.3	27033	21.36	22	0-2
			3	814.7	26697	21.81	22	0-2
				831.5	26865	21.97	22	0-2
				848.3	27033	21.25	22	0-2
		6RB		814.7	26697	20.83	22	0-2
				831.5	26865	20.60	22	0-2
				848.3	27033	20.52	22	0-2

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t (886-2) 2299-3279

f (886-2) 2298-0488

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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	21.80	23	0-1
				831.5	26865	22.16	23	0-1
				848.3	27033	22.50	23	0-1
			2	814.7	26697	21.97	23	0-1
				831.5	26865	21.96	23	0-1
				848.3	27033	21.94	23	0-1
			5	814.7	26697	21.72	23	0-1
				831.5	26865	21.55	23	0-1
				848.3	27033	21.55	23	0-1
		3 RB	0	814.7	26697	20.86	22	0-2
				831.5	26865	20.61	22	0-2
				848.3	27033	20.56	22	0-2
			2	814.7	26697	20.35	22	0-2
				831.5	26865	20.72	22	0-2
				848.3	27033	20.34	22	0-2
			3	814.7	26697	20.50	22	0-2
				831.5	26865	20.70	22	0-2
				848.3	27033	20.70	22	0-2
		6RB		814.7	26697	20.65	22	0-2
				831.5	26865	20.64	22	0-2
				848.3	27033	20.66	22	0-2

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t (886-2) 2299-3279

f (886-2) 2298-0488

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

Main 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	12.00	11.69
		6	2437		12.00	11.78
		11	2462		12.00	11.98
	802.11g	1	2412	6Mbps	12.00	11.74
		6	2437		12.00	11.77
		11	2462		12.00	11.66
	802.11n20-HT0	1	2412	MCS0	12.00	11.81
		6	2437		12.00	11.67
		11	2462		12.00	11.73
	802.11n40-HT0	3	2422	MCS0	12.00	11.72
		6	2437		12.00	11.80
		9	2452		12.00	11.57

Main 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	12.26	11.89
		40	5200		12.90	11.78
		44	5220		12.84	12.79
		48	5240		12.90	12.81
	802.11n20-HT0	36	5180	MCS0	12.88	12.76
		40	5200		13.80	12.45
		44	5220		13.69	13.65
		48	5240		13.80	13.77
	802.11n40-HT0	38	5190	MCS0	12.52	12.47
		46	5230		12.98	12.88

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Main 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	13.13	12.91
		56	5280		12.91	12.19
		60	5300		12.91	12.89
		64	5320		12.59	12.24
	802.11n20-HT0	52	5260	MCS0	13.91	13.84
		56	5280		13.91	13.15
		60	5300		13.73	13.67
		64	5320		13.43	13.19
	802.11n40-HT0	54	5270	MCS0	13.20	13.04
		62	5310		12.80	12.77

Main Antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5600 GHz	802.11a	100	5500	6Mbps	12.43	12.18
		104	5520		12.93	12.16
		116	5580		12.93	12.84
		120	5600		12.93	12.12
		136	5680		12.93	12.08
		140	5700		12.92	12.90
		144	5720		12.93	12.11
	802.11n20-HT0	100	5500	MCS0	12.28	12.18
		104	5520		13.15	12.01
		116	5580		12.56	12.08
		120	5600		13.15	12.05
		136	5680		13.15	11.99
		140	5700		13.15	13.01
		144	5720		13.15	11.93
	802.11n40-HT0	102	5510	MCS0	10.42	10.33
		110	5550		10.66	10.55
		118	5590		12.31	12.11
		134	5670		12.31	12.28
		142	5710		12.31	12.07

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Main Antenna						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5800 MHz	802.11a	149	5745	6Mbps	11.96	11.95
		157	5785		11.59	11.12
		165	5825		11.61	11.58
	802.11n20-HT0	149	5745	MCS0	11.81	11.35
		157	5785		11.39	11.01
		165	5825		10.64	10.63
	802.11n40-HT0	151	5755	MCS0	10.26	10.22
		159	5795		10.79	10.78

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f (886-2) 2298-0488

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Bluetooth maximum 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	7.24	6.13	7.12	3.99	7.69	3.97
	CH 39	2441	6.58	6.10	6.48	3.89	6.97	3.90
	CH 78	2480	7.61	6.18	7.63	3.87	8.14	3.93

Mode	Channel	Frequency (MHz)	Average Output Power (dBm)	Max. Rated Avg. Power + Max. Tolerance (dBm)
			GFSK	
LE	CH 00	2402	-3.02	2.9
	CH 19	2440	-2.98	1.77
	CH 39	2480	-3.55	3.09

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BT_duty(2.88/3.75=0.768)

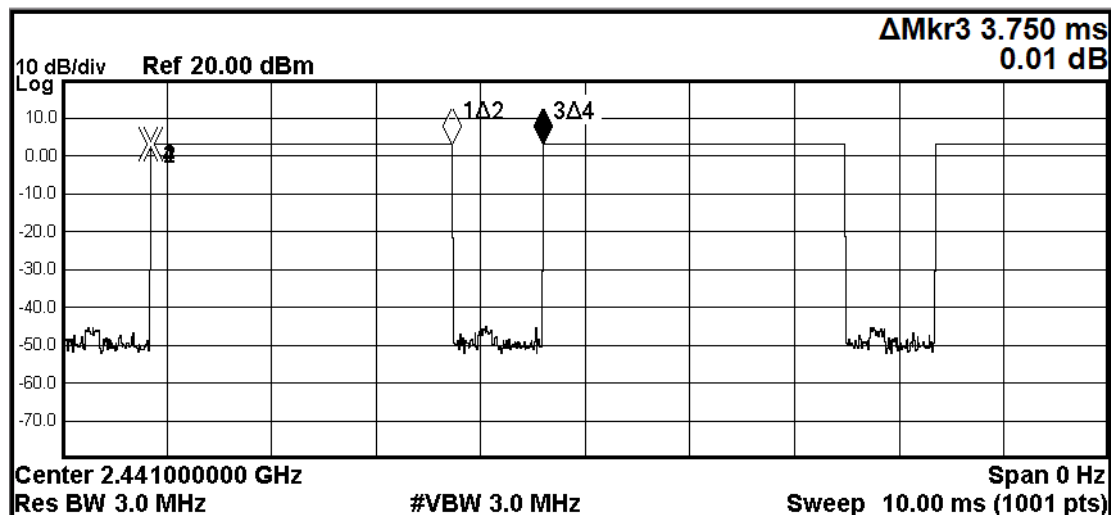
Center Freq 2.441000000 GHz

PNO: Fast
IFGain: Low

Trig: Free Run
Atten: 30 dB

Avg Type: Log-Pwr

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



MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	Δ2	1	t	(Δ)	2.880 ms	(Δ)	0.11 dB	
2	F	1	t		850.0 μs		2.89 dBm	
3	Δ4	1	t	(Δ)	3.750 ms	(Δ)	0.01 dB	
4	F	1	t		850.0 μs		2.89 dBm	
5								
6								
7								
8								
9								
10								
11								

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f (886-2) 2298-0488

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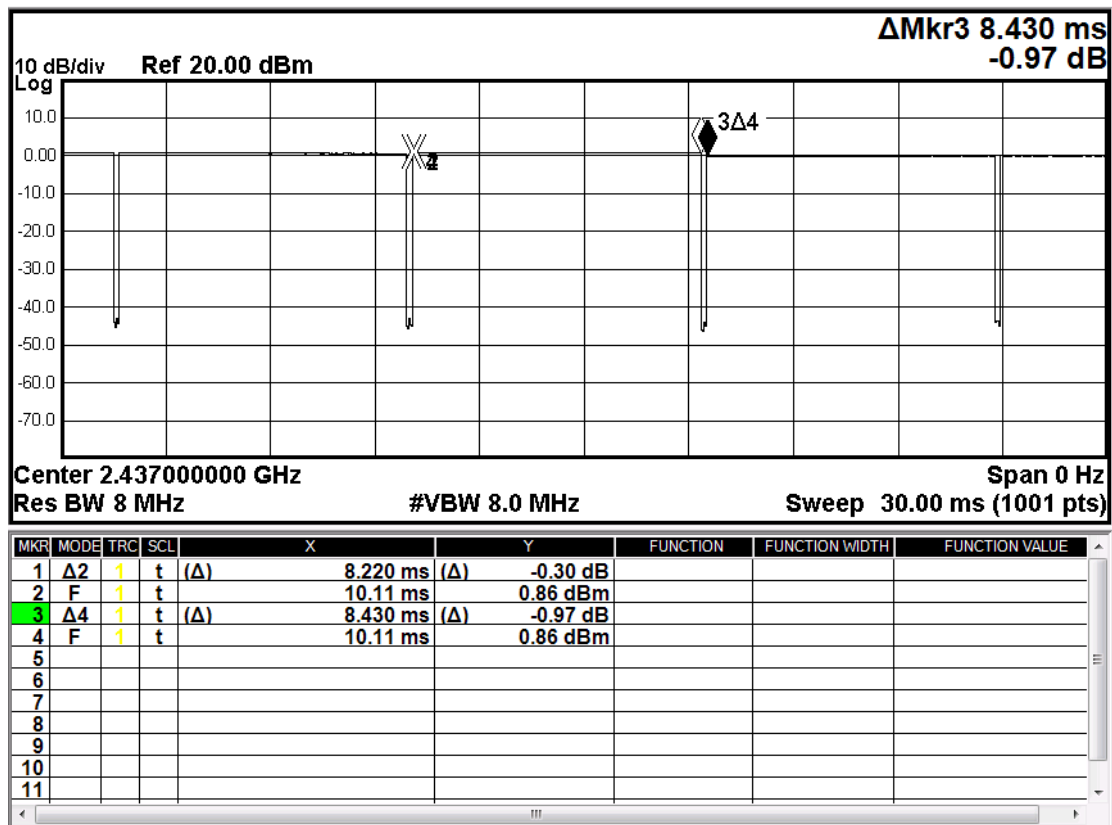
2.4G b_duty (8.22/8.43=0.975)
Center Freq 2.437000000 GHz

PNO: Fast
IFGain:Low

Trig: Free Run
Atten: 30 dB

Avg Type: Log-Pwr

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



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5G a_duty(1.36/1.56=0.872)

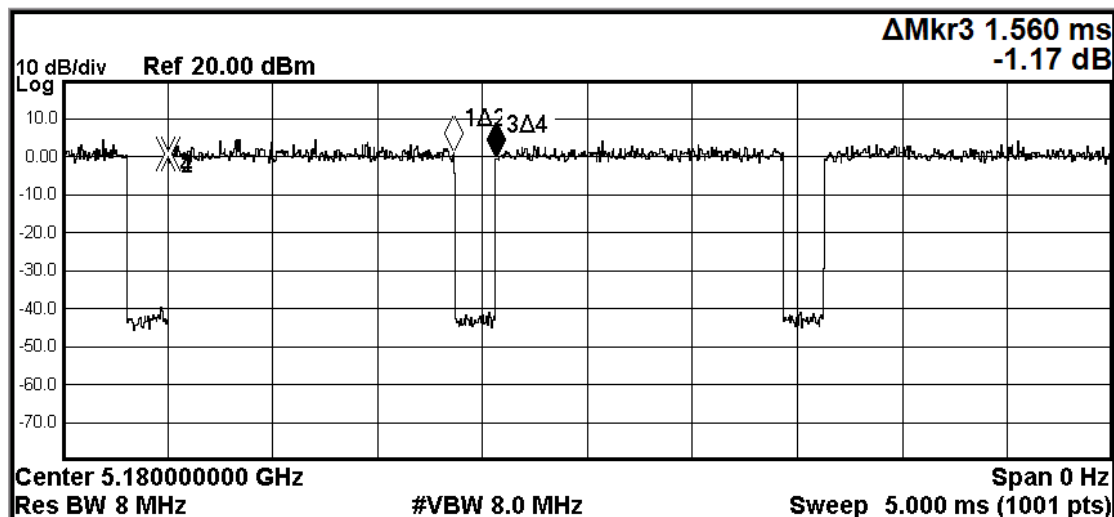
Center Freq 5.180000000 GHz

PNO: Fast
IFGain: Low

Trig: Free Run
Atten: 30 dB

Avg Type: Log-Pwr

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



MKR	MODE	TRC	SCL		X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	Δ2	1	t	(Δ)	1.360 ms	(Δ) 0.61 dB			
2	F	1	t		505.0 μs	0.56 dBm			
3	Δ4	1	t	(Δ)	1.560 ms	(Δ) -1.17 dB			
4	F	1	t		505.0 μs	0.56 dBm			
5									
6									
7									
8									
9									
10									
11									

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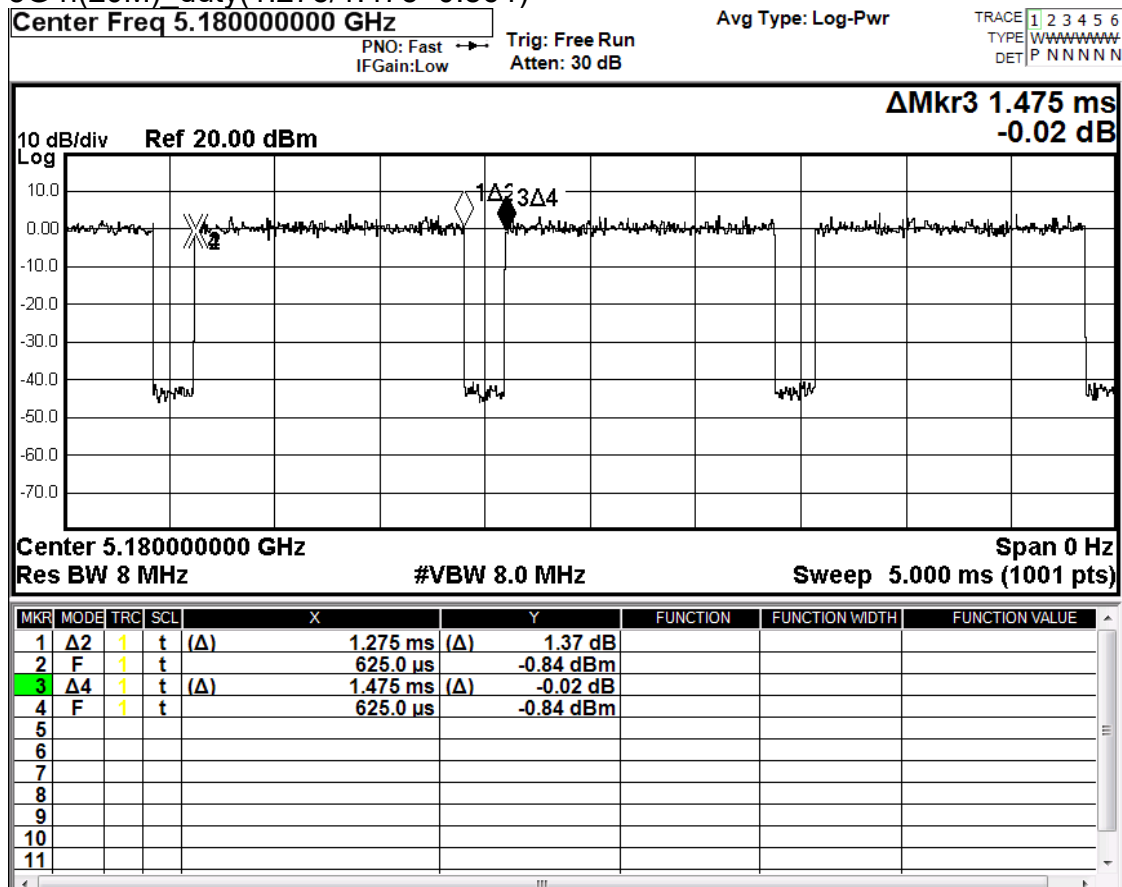
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1.4 Test Environment

Ambient Temperature: $22\pm 2^{\circ}\text{C}$

Tissue Simulating Liquid: $22\pm 2^{\circ}\text{C}$

1.5 Operation Description

1. The EUT is controlled by using a Radio Communication Tester (MT8820C), and the communication between the EUT and the tester is established by air link.
2. Measurements are performed respectively on the lowest, middle and highest channels of the operating band(s). The EUT is set to maximum power level during all tests, and at the beginning of each test the battery is fully charged.
3. 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.
4. SAR test reduction for GPRS mode is determined by the source-based time-averaged output power. The data mode with highest specified time-averaged output power should be tested for SAR compliance.
5. 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).
6. 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).

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7. 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.

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.

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- 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.

WLAN

802.11b DSSS SAR Test Requirements:

8. SAR is measured for 2.4 GHz 802.11b DSSS mode using the highest measured maximum output power channel, when the reported SAR of the highest measured maximum output power channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required for 802.11b DSSS in that exposure configuration.
9. 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:

10. SAR is not required for 802.11g/n since the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.
11. According to KDB447498D01v06, 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.
12. According to **KDB865664D01v01r04**, 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 ($\sim 10\%$ from the 1-g SAR limit)

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13. According to **KDB447498D01v06** – The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by: $[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR, and ≤ 7.5 for product specific 10-g SAR.
14. UMPC mini-tablet procedure is used to test for 1-g SAR on all surfaces and side edges with a transmitting antenna located at ≤ 25 mm from that surface or edge, at 5 mm separation from a flat phantom, for the data modes, wireless technologies and frequency bands supported by the device to determine SAR compliance.

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1.6 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 then moved around until the highest averaged SAR is found.

If the highest SAR is found at the edge of the measured volume, the system will issue a warning: higher SAR values might be found outside of the measured volume. In that case the cube measurement can be repeated, using the new interpolated maximum as the center.

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1.7 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:

1.7.1 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 ($<1\text{-}2\text{ mm}$) and fast reaction time ($<1\text{ s}$) are available and can be easily calibrated with high precision [1]. The setup and the exciting source have no influence on the calibration; only the relative positioning uncertainties of the standard temperature probe and the E-field probe to be calibrated must be considered. However, several problems limit the available accuracy of probe calibrations with temperature probes:

1. The temperature gradient is not directly measurable but must be evaluated from temperature measurements at different time steps. Special precaution is necessary to avoid measurement errors caused by temperature gradients due to energy equalizing effects or convection currents in the liquid. Such effects cannot be completely avoided, as the measured field itself destroys the

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thermal equilibrium in the liquid. With a careful setup these errors can be kept small.

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

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

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1.7.2 Calibration with Analytical Fields

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

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

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

References

- (1) N. Kuster, Q. Balzano, and J.C. Lin, Eds., *Mobile Communications Safety*, Chapman & Hall, London, 1997.
- (2) K. Meier, M. Burkhardt, T. Schmid, and N. Kuster, "Broadband calibration of E-field probes in lossy media", *IEEE Transactions on Microwave Theory and Techniques*, vol. 44, no. 10, pp. 1954-1962, Oct. 1996.
- (3) K. Jokela, P. Hyysalo, and L. Puranen, "Calibration of specific absorption rate (SAR) probes in waveguide at 900 MHz", *IEEE Transactions on Instrumentation and Measurements*, vol. 47, no. 2, pp. 432-438, Apr. 1998.

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1.8 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). Model EX3DV4 field probes are used to determine the internal electric fields. The SAR can be obtained from the equation $SAR = \sigma (|E_i|^2) / \rho$ where σ and ρ are the conductivity and mass density of the tissue-simulant.

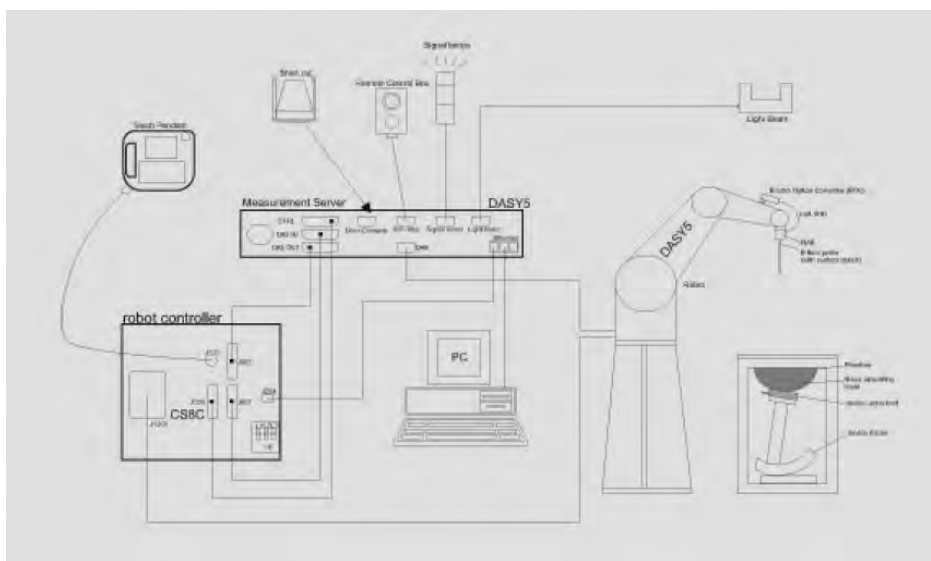


Fig. a A block diagram of the SAR measurement system

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台灣檢驗科技股份有限公司

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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. 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.
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 Windows7
8. DASY 5 software.
9. Remote control with teach pendant and additional circuitry for robot safety such as warning lamps, etc.
10. The SAM twin phantom enabling testing left-hand and right-hand usage.
11. The device holder for handheld mobile phones.
12. Tissue simulating liquid mixed according to the given recipes.
13. Validation dipole kits allowing to validate the proper functioning of the system.

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1.9 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 HSL750/835/1750/1900/2450/2600/5200/5300/5600/5800 MHz Additional CF for other liquids and frequencies upon request		
Frequency	10 MHz to > 6 GHz, Linearity: ± 0.6 dB		
Directivity	± 0.3 dB in HSL (rotation around probe axis) ± 0.5 dB in tissue material (rotation normal to probe axis)		
Dynamic Range	10 μ W/g to > 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 μ W/g)		
Dimensions	Tip diameter: 2.5 mm		
Application	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields). Only probe which enables compliance testing for frequencies up to 6 GHz with precision of better 30%.		

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Phantom

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

DEVICE HOLDER

Construction	In combination with the Twin SAM Phantom V4.0/V4.0C or Twin SAM, the Mounting Device (made from POM) enables the rotation of the mounted transmitter in spherical coordinates, whereby the rotation point is the ear opening. The devices can be easily and accurately positioned according to IEC, IEEE, CENELEC, FCC or other specifications. The device holder can be locked at different phantom locations (left head, right head, flat phantom).	 Device Holder
--------------	--	--

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

These tests were done at 750/835/1750/1900/2450/2600/5200/5300/5600/5800 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. During the tests, the liquid depth above the ear reference points was above 15 cm ($\leq 3G$) or 10 cm ($> 3G$) in all the cases. It is seen that the system is operating within its specification, as the results are within acceptable tolerance of the reference values.

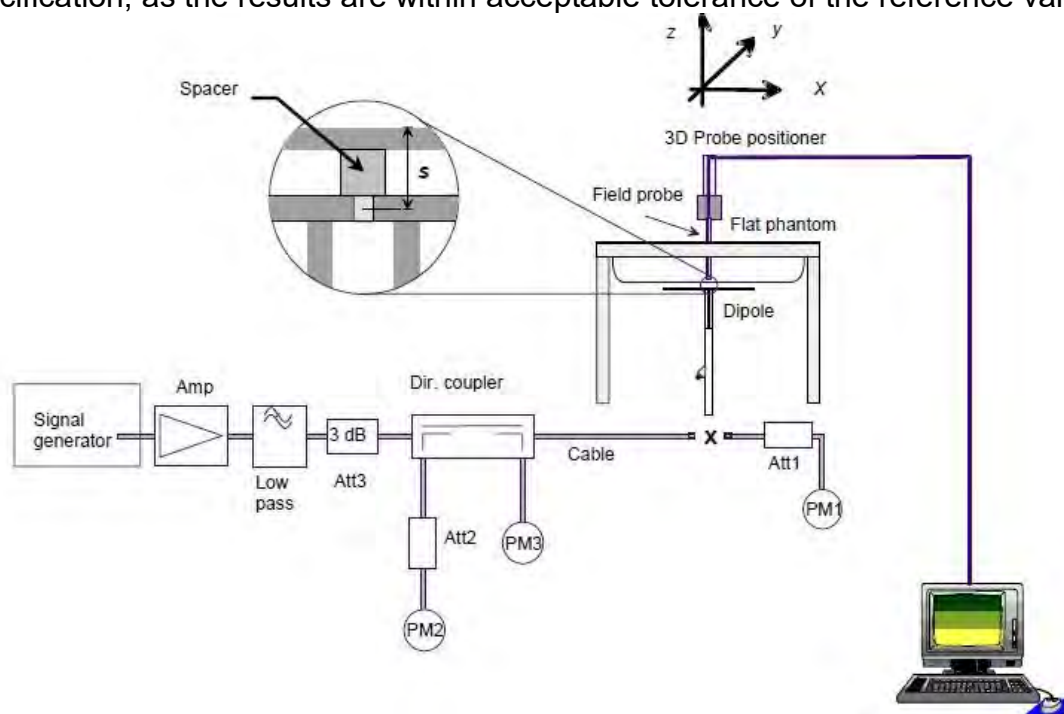


Fig. b The block diagram of system verification

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Validation Kit	S/N	Frequency (MHz)		1W Target SAR-1g (mW/g)	Pin=250mW Measured SAR-1g (mW/g)	Measured SAR-1g normalized to 1W (mW/g)	Deviation (%)	Measured Date
D750V2	1015	750	Head	8.6	2.16	8.64	0.47%	Aug. 09, 2020
D835V2	4d063	835	Head	9.57	2.42	9.68	1.15%	Aug. 10, 2020
D835V2	4d063	835	Head	9.57	2.44	9.76	1.99%	Aug. 11, 2020
D1750V2	1008	1750	Head	36.8	9.24	36.96	0.43%	Aug. 12, 2020
D1900V2	5d173	1900	Head	39.4	9.86	39.44	0.10%	Aug. 13, 2020
D1900V2	5d173	1900	Head	39.4	9.79	39.16	-0.61%	Aug. 27, 2020
D2450V2	727	2450	Head	52.6	13.60	54.40	3.42%	Aug. 14, 2020
D2600V2	1005	2600	Head	57.3	14.90	59.60	4.01%	Aug. 14, 2020
Validation Kit	S/N	Frequency (MHz)		1W Target SAR-1g (mW/g)	Pin=100mW Measured SAR-1g (mW/g)	Measured SAR-1g normalized to 1W (mW/g)	Deviation (%)	Measured Date
D5GHzV2	1023	5200	Head	80.1	8.09	80.90	1.00%	Aug. 15, 2020
		5300	Head	82.8	8.34	83.40	0.72%	Aug. 15, 2020
		5600	Head	83.1	8.31	83.10	0.00%	Aug. 16, 2020
		5800	Head	81.4	8.23	82.30	1.11%	Aug. 16, 2020

Table 1. Results of system validation

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1.11 Tissue Simulant Fluid for the Frequency Band

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

All dielectric parameters of tissue simulates were measured within 24 hours of SAR measurements. The depth of the tissue simulant in the flat section of the phantom was at least 15 cm ($\leq 3G$) or 10 cm ($> 3G$) during all tests. (Appendix 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	Aug, 09. 2020	704	42.181	0.890	42.559	0.902	0.90%	1.37%
		707.5	42.162	0.890	42.545	0.903	0.91%	1.45%
		711	42.144	0.890	42.539	0.903	0.94%	1.42%
		750	41.942	0.893	42.319	0.906	0.90%	1.41%
		782	41.775	0.896	42.147	0.909	0.89%	1.47%
	Aug, 10. 2020	824.2	41.556	0.899	41.934	0.910	0.91%	1.21%
		826.4	41.545	0.899	41.922	0.911	0.91%	1.30%
		829	41.531	0.900	41.905	0.912	0.90%	1.39%
		835	41.500	0.900	41.894	0.914	0.95%	1.56%
		836.6	41.500	0.902	41.886	0.915	0.93%	1.47%
		844	41.500	0.910	41.871	0.923	0.89%	1.46%
		846.6	41.500	0.912	41.869	0.926	0.89%	1.48%
		848.8	41.500	0.915	41.865	0.928	0.88%	1.44%
	Aug, 11. 2020	821.5	41.570	0.899	41.923	0.910	0.85%	1.24%
		831.5	41.518	0.900	41.888	0.912	0.89%	1.36%
		835	41.500	0.900	41.884	0.913	0.93%	1.44%
		836.5	41.500	0.902	41.878	0.914	0.91%	1.37%
		841.5	41.500	0.907	41.861	0.920	0.87%	1.43%
	Aug, 12. 2020	1712.4	40.138	1.349	40.223	1.344	0.21%	-0.39%
		1720	40.126	1.354	40.211	1.349	0.21%	-0.35%
		1732.4	40.107	1.361	40.175	1.355	0.17%	-0.43%
		1732.5	40.107	1.361	40.173	1.355	0.17%	-0.44%
		1745	40.087	1.368	40.159	1.363	0.18%	-0.38%
		1750	40.079	1.371	40.159	1.366	0.20%	-0.37%
		1752.6	40.075	1.373	40.155	1.368	0.20%	-0.33%

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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	Aug, 13. 2020	1852.4	40.000	1.400	40.084	1.393	0.21%	-0.50%
		1860	40.000	1.400	40.080	1.394	0.20%	-0.43%
		1880	40.000	1.400	40.076	1.395	0.19%	-0.36%
		1882.5	40.000	1.400	40.072	1.396	0.18%	-0.29%
		1900	40.000	1.400	40.068	1.397	0.17%	-0.21%
		1905	40.000	1.400	40.064	1.398	0.16%	-0.14%
		1907.6	40.000	1.400	40.060	1.398	0.15%	-0.14%
	Aug, 27. 2020	1850.2	40.000	1.400	40.092	1.392	0.23%	-0.57%
		1880	40.000	1.400	40.091	1.394	0.23%	-0.43%
		1900	40.000	1.400	40.064	1.395	0.16%	-0.36%
		1909.8	40.000	1.400	40.060	1.396	0.15%	-0.29%
	Aug, 14. 2020	2450	39.200	1.800	38.959	1.790	-0.61%	-0.56%
		2462	39.185	1.813	38.954	1.805	-0.59%	-0.45%
		2480	39.162	1.827	38.919	1.818	-0.62%	-0.47%
		2510	39.124	1.865	38.897	1.857	-0.58%	-0.45%
		2535	39.092	1.893	38.877	1.883	-0.55%	-0.51%
		2560	39.060	1.920	38.837	1.910	-0.57%	-0.52%
		2600	39.009	1.964	38.763	1.953	-0.63%	-0.54%
	Aug, 15. 2020	5200	35.986	4.655	35.737	4.608	-0.69%	-1.01%
		5240	35.940	4.696	35.706	4.651	-0.65%	-0.96%
		5260	35.917	4.717	35.651	4.670	-0.74%	-0.99%
		5300	35.871	4.758	35.613	4.710	-0.72%	-1.00%
	Aug, 16. 2020	5600	35.529	5.065	35.266	5.015	-0.74%	-0.99%
		5700	35.414	5.168	35.149	5.114	-0.75%	-1.04%
		5745	35.363	5.214	35.126	5.164	-0.67%	-0.95%
		5800	35.300	5.270	35.056	5.216	-0.69%	-1.02%

Table 2. Dielectric Parameters of Tissue Simulant Fluid

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The composition of the 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)
2450	Head	550 g	450 g	—	—	—	—	1.0L(Kg)
2600	Head	550 g	450 g	—	—	—	—	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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1.12 Test Standards and Limits

According to FCC 47CFR §2.1093(d) The limits to be used for evaluation are based generally on criteria published by the American National Standards Institute (ANSI) for localized specific absorption rate ("SAR") in Section 4.2 of "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz," ANSI/IEEE C95.1, By the Institute of Electrical and Electronics Engineers, Inc., New York, New York 10017.

These criteria for SAR evaluation are similar to those recommended by the National Council on Radiation Protection and Measurements (NCRP) in "Biological Effects and Exposure Criteria for Radio frequency Electromagnetic Fields," NCRP Report No. 86, Section 17.4.5. Copyright NCRP, 1986, Bethesda, Maryland 20814. SAR is a measure of the rate of energy absorption due to exposure to an RF transmitting source. SAR values have been related to threshold levels for potential biological hazards. The criteria to be used are specified in paragraphs (d)(1) and (d)(2) of this section and shall apply for portable devices transmitting in the frequency range from 100 kHz to 6 GHz. Portable devices that transmit at frequencies above 6 GHz are to be evaluated in terms of the MPE limits specified in § 1.1310 of this chapter.

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

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

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

2. Limits for General Population/Uncontrolled exposure: 0.08 W/kg as averaged over the whole-body and spatial peak SAR not exceeding 1.6 W/kg as averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube).

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Exceptions are the hands, wrists, feet and ankles where the spatial peak SAR shall not exceed 4 W/kg, as averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube).

General Population/Uncontrolled limits apply when the general public may be exposed, or when persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or do not exercise control over their exposure.

Warning labels placed on consumer devices such as cellular telephones will not be sufficient reason to allow these devices to be evaluated subject to limits for occupational/controlled exposure in paragraph (d)(1) of this section.(Table .6)

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

Table 4. RF exposure limits

Notes:

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

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2. Summary of Results

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

GPRS 850

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	
GPRS 850 <1Dn4Up>	Front side	5	128	824.2	30.00	28.84	130.62%	0.242	0.316	-
	Back side	5	128	824.2	30.00	28.84	130.62%	0.664	0.867	131
	Back side	5	190	836.6	30.00	28.81	131.52%	0.621	0.817	-
	Back side	5	251	848.8	30.00	28.70	134.90%	0.624	0.842	-
	Top side	5	128	824.2	30.00	28.84	130.62%	0.269	0.351	-
	Bottom side	5	128	824.2	30.00	28.84	130.62%	0.014	0.018	-
	Right side	5	128	824.2	30.00	28.84	130.62%	0.310	0.405	-
	Left side	5	128	824.2	30.00	28.84	130.62%	0.223	0.291	-

GPRS 1900

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	
GPRS 1900 <1Dn4Up>	Front side	5	661	1880	25.50	24.30	131.83%	0.433	0.571	-
	Back side	5	512	1850.2	25.50	24.29	132.13%	0.751	0.992	133
	Back side	5	661	1880	25.50	24.30	131.83%	0.713	0.940	-
	Back side	5	810	1909.8	25.50	24.21	134.59%	0.546	0.735	-
	Top side	5	661	1880	25.50	24.30	131.83%	0.438	0.577	-
	Bottom side	5	661	1880	25.50	24.30	131.83%	0.030	0.040	-
	Right side	5	661	1880	25.50	24.30	131.83%	0.167	0.220	-
	Left side	5	661	1880	25.50	24.30	131.83%	0.140	0.185	-

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WCDMA Band II

Band	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	Front side	5	9262	1852.4	20.5	19.95	113.50%	0.261	0.296	-
	Back side	5	9262	1852.4	20.5	19.95	113.50%	0.529	0.600	134
	Back side	5	9400	1880	20.5	19.93	114.02%	0.511	0.583	-
	Back side	5	9538	1907.6	20.5	19.89	115.08%	0.432	0.497	-
	Top side	5	9262	1852.4	20.5	19.95	113.50%	0.339	0.385	-
	Bottom side	5	9262	1852.4	20.5	19.95	113.50%	0.019	0.022	-
	Right side	5	9262	1852.4	20.5	19.95	113.50%	0.095	0.108	-
	Left side	5	9262	1852.4	20.5	19.95	113.50%	0.071	0.081	-

WCDMA Band IV

Band	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	Front side	5	1513	1752.6	24	22.20	151.36%	0.239	0.362	-
	Back side	5	1513	1752.6	24	22.20	151.36%	0.398	0.602	-
	Top side	5	1312	1712.4	24	21.77	167.11%	0.335	0.560	-
	Top side	5	1412	1732.4	24	21.99	158.85%	0.408	0.648	-
	Top side	5	1513	1752.6	24	22.20	151.36%	0.536	0.811	135
	Bottom side	5	1513	1752.6	24	22.20	151.36%	0.004	0.006	-
	Right side	5	1513	1752.6	24	22.20	151.36%	0.022	0.033	-
	Left side	5	1513	1752.6	24	22.20	151.36%	0.082	0.124	-

WCDMA Band V

Band	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	Front side	5	4183	836.6	24	22.23	150.31%	0.120	0.180	-
	Back side	5	4132	826.4	24	22.16	152.76%	0.451	0.689	-
	Back side	5	4183	836.6	24	22.23	150.31%	0.445	0.669	-
	Back side	5	4233	846.6	24	22.19	151.71%	0.505	0.766	136
	Top side	5	4183	836.6	24	22.23	150.31%	0.165	0.248	-
	Bottom side	5	4183	836.6	24	22.23	150.31%	0.004	0.006	-
	Right side	5	4183	836.6	24	22.23	150.31%	0.195	0.293	-
	Left side	5	4183	836.6	24	22.23	150.31%	0.063	0.095	-

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SGS Taiwan Ltd.

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

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

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LTE FDD Band 2

Band	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	Front side	5	18900	1880	20.5	20.35	103.51%	0.275	0.285	-
					Back side	5	18900	1880	20.5	20.35	103.51%	0.565	0.585	137
					Back side	5	19100	1900	20.5	20.19	107.40%	0.498	0.535	-
					Top side	5	18900	1880	20.5	20.35	103.51%	0.285	0.295	-
					Bottom side	5	18900	1880	20.5	20.35	103.51%	0.019	0.020	-
					Right side	5	18900	1880	20.5	20.35	103.51%	0.104	0.108	-
					Left side	5	18900	1880	20.5	20.35	103.51%	0.085	0.088	-
					Back side	5	18700	1860	20.5	20.08	110.15%	0.539	0.594	-
			50 RB	0	Front side	5	18700	1860	19.5	19.09	109.90%	0.214	0.235	-
					Back side	5	18700	1860	19.5	19.09	109.90%	0.477	0.524	-
					Top side	5	18700	1860	19.5	19.09	109.90%	0.231	0.254	-
					Bottom side	5	18700	1860	19.5	19.09	109.90%	0.013	0.014	-
					Right side	5	18700	1860	19.5	19.09	109.90%	0.082	0.090	-
					Left side	5	18700	1860	19.5	19.09	109.90%	0.063	0.069	-
					Front side	5	19100	1900	19.5	19.04	111.17%	0.204	0.227	-
					Back side	5	19100	1900	19.5	19.04	111.17%	0.451	0.501	-
			100 RB	0	Top side	5	19100	1900	19.5	19.04	111.17%	0.208	0.231	-
					Bottom side	5	19100	1900	19.5	19.04	111.17%	0.012	0.013	-
					Right side	5	19100	1900	19.5	19.04	111.17%	0.085	0.094	-
					Left side	5	19100	1900	19.5	19.04	111.17%	0.056	0.062	-

LTE FDD Band 4

Band	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	50	Back side	5	20175	1732.5	24	22.19	151.71%	0.433	0.657	138
					Front side	5	20050	1720	24	22.49	141.58%	0.105	0.149	-
					Back side	5	20050	1720	24	22.49	141.58%	0.421	0.596	-
					Top side	5	20050	1720	24	22.49	141.58%	0.372	0.527	-
					Bottom side	5	20050	1720	24	22.49	141.58%	0.002	0.002	-
					Right side	5	20050	1720	24	22.49	141.58%	0.078	0.110	-
					Left side	5	20050	1720	24	22.49	141.58%	0.053	0.075	-
					Back side	5	20300	1745	24	22.44	143.22%	0.410	0.587	-
			50 RB	0	Front side	5	20050	1720	23	21.42	143.88%	0.088	0.127	-
					Back side	5	20050	1720	23	21.42	143.88%	0.347	0.499	-
					Top side	5	20050	1720	23	21.42	143.88%	0.309	0.445	-
					Bottom side	5	20050	1720	23	21.42	143.88%	0.001	0.001	-
					Right side	5	20050	1720	23	21.42	143.88%	0.064	0.092	-
					Left side	5	20050	1720	23	21.42	143.88%	0.044	0.063	-
					Front side	5	20050	1720	23	21.33	146.89%	0.085	0.125	-
					Back side	5	20050	1720	23	21.33	146.89%	0.345	0.507	-
			100 RB	0	Top side	5	20050	1720	23	21.33	146.89%	0.303	0.445	-
					Bottom side	5	20050	1720	23	21.33	146.89%	0.001	0.001	-
					Right side	5	20050	1720	23	21.33	146.89%	0.063	0.093	-
					Left side	5	20050	1720	23	21.33	146.89%	0.044	0.065	-

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

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LTE FDD Band 5

Band	Bandwidth (MHz)	Modulation	RB Size	RB start	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
												Measured	Reported	
LTE Band 5	10MHz	QPSK	1 RB	0	Front side	5	20525	836.5	24.5	23.10	138.04%	0.141	0.195	-
					Back side	5	20525	836.5	24.5	23.10	138.04%	0.457	0.631	-
					Back side	5	20600	844	24.5	22.93	143.55%	0.491	0.705	139
					Top side	5	20525	836.5	24.5	23.10	138.04%	0.118	0.163	-
					Bottom side	5	20525	836.5	24.5	23.10	138.04%	0.007	0.009	-
					Right side	5	20525	836.5	24.5	23.10	138.04%	0.198	0.273	-
					Left side	5	20525	836.5	24.5	23.10	138.04%	0.085	0.117	-
				25	Back side	5	20450	829	24.5	22.73	150.31%	0.455	0.684	-
					Back side	5	20450	829	24.5	22.73	150.31%	0.472	0.709	-
				49	Front side	5	20600	844	23.5	21.93	143.55%	0.102	0.146	-
					Back side	5	20600	844	23.5	21.93	143.55%	0.332	0.477	-
					Top side	5	20600	844	23.5	21.93	143.55%	0.086	0.123	-
					Bottom side	5	20600	844	23.5	21.93	143.55%	0.005	0.007	-
					Right side	5	20600	844	23.5	21.93	143.55%	0.143	0.205	-
					Left side	5	20600	844	23.5	21.93	143.55%	0.061	0.088	-
			25 RB	0	Front side	5	20600	844	23.5	21.91	144.21%	0.097	0.140	-
					Back side	5	20600	844	23.5	21.91	144.21%	0.322	0.464	-
					Top side	5	20600	844	23.5	21.91	144.21%	0.083	0.120	-
					Bottom side	5	20600	844	23.5	21.91	144.21%	0.005	0.007	-
					Right side	5	20600	844	23.5	21.91	144.21%	0.137	0.198	-
					Left side	5	20600	844	23.5	21.91	144.21%	0.058	0.084	-
				50 RB	Front side	5	20600	844	23.5	21.91	144.21%	0.058	0.084	-
					Back side	5	20600	844	23.5	21.91	144.21%	0.058	0.084	-
					Top side	5	20600	844	23.5	21.91	144.21%	0.058	0.084	-
					Bottom side	5	20600	844	23.5	21.91	144.21%	0.058	0.084	-
					Right side	5	20600	844	23.5	21.91	144.21%	0.058	0.084	-
					Left side	5	20600	844	23.5	21.91	144.21%	0.058	0.084	-

LTE FDD Band 7

Band	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	5	20850	2510	24.5	23.39	129.12%	0.501	0.647	-
					Front side	5	21100	2535	24.5	23.55	124.45%	0.369	0.459	-
					Back side	5	21100	2535	24.5	23.55	124.45%	0.440	0.548	-
					Top side	5	21100	2535	24.5	23.55	124.45%	0.560	0.697	-
					Bottom side	5	21100	2535	24.5	23.55	124.45%	0.043	0.054	-
					Right side	5	21100	2535	24.5	23.55	124.45%	0.128	0.159	-
					Left side	5	21100	2535	24.5	23.55	124.45%	0.486	0.605	-
				99	Top side	5	21350	2560	24.5	23.49	126.18%	0.593	0.748	140
					Front side	5	21350	2560	23.5	22.59	123.31%	0.318	0.392	-
					Back side	5	21350	2560	23.5	22.59	123.31%	0.378	0.466	-
					Top side	5	21350	2560	23.5	22.59	123.31%	0.475	0.586	-
					Bottom side	5	21350	2560	23.5	22.59	123.31%	0.037	0.046	-
					Right side	5	21350	2560	23.5	22.59	123.31%	0.109	0.134	-
			50 RB	0	Left side	5	21350	2560	23.5	22.59	123.31%	0.411	0.507	-
					Front side	5	21100	2535	23.5	22.42	128.23%	0.301	0.386	-
					Back side	5	21100	2535	23.5	22.42	128.23%	0.352	0.451	-
					Top side	5	21100	2535	23.5	22.42	128.23%	0.450	0.577	-
					Bottom side	5	21100	2535	23.5	22.42	128.23%	0.034	0.044	-
					Right side	5	21100	2535	23.5	22.42	128.23%	0.107	0.137	-
				100 RB	Left side	5	21100	2535	23.5	22.42	128.23%	0.405	0.519	-
					Front side	5	21100	2535	23.5	22.42	128.23%	0.405	0.519	-
					Back side	5	21100	2535	23.5	22.42	128.23%	0.405	0.519	-
					Top side	5	21100	2535	23.5	22.42	128.23%	0.405	0.519	-
					Bottom side	5	21100	2535	23.5	22.42	128.23%	0.405	0.519	-
					Right side	5	21100	2535	23.5	22.42	128.23%	0.405	0.519	-

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t (886-2) 2299-3279

f (886-2) 2298-0488

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LTE FDD Band 12

Band	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	Front side	5	23060	704	23.5	23.49	100.23%	0.259	0.260	-
					Back side	5	23060	704	23.5	23.49	100.23%	0.535	0.536	-
					Top side	5	23060	704	23.5	23.49	100.23%	0.014	0.014	-
					Bottom side	5	23060	704	23.5	23.49	100.23%	0.011	0.011	-
					Right side	5	23060	704	23.5	23.49	100.23%	0.366	0.367	-
					Left side	5	23060	704	23.5	23.49	100.23%	0.426	0.427	-
				25	Back side	5	23095	707.5	23.5	23.34	103.75%	0.650	0.674	-
					Back side	5	23130	711	23.5	23.24	106.17%	0.683	0.725	141
					Front side	5	23095	707.5	22.5	22.31	104.47%	0.186	0.194	-
					Back side	5	23095	707.5	22.5	22.31	104.47%	0.383	0.400	-
			25 RB	12	Top side	5	23095	707.5	22.5	22.31	104.47%	0.010	0.010	-
					Bottom side	5	23095	707.5	22.5	22.31	104.47%	0.009	0.009	-
					Right side	5	23095	707.5	22.5	22.31	104.47%	0.261	0.273	-
					Left side	5	23095	707.5	22.5	22.31	104.47%	0.309	0.323	-
					Front side	5	23060	704	22.5	22.24	106.17%	0.174	0.185	-
					Back side	5	23060	704	22.5	22.24	106.17%	0.378	0.401	-
				50 RB	Top side	5	23060	704	22.5	22.24	106.17%	0.008	0.009	-
					Bottom side	5	23060	704	22.5	22.24	106.17%	0.008	0.009	-
					Right side	5	23060	704	22.5	22.24	106.17%	0.254	0.270	-
					Left side	5	23060	704	22.5	22.24	106.17%	0.307	0.326	-

LTE FDD Band 13

Band	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	Front side	5	23230	782	23.5	23.45	101.16%	0.315	0.319	-
					Back side	5	23230	782	23.5	23.45	101.16%	0.658	0.666	142
					Top side	5	23230	782	23.5	23.45	101.16%	0.018	0.018	-
					Bottom side	5	23230	782	23.5	23.45	101.16%	0.014	0.014	-
					Right side	5	23230	782	23.5	23.45	101.16%	0.444	0.449	-
					Left side	5	23230	782	23.5	23.45	101.16%	0.518	0.524	-
				25	Back side	5	23230	782	23.5	23.24	106.17%	0.643	0.683	-
					Back side	5	23230	782	23.5	23.34	103.75%	0.629	0.653	-
			25 RB	0	Front side	5	23230	782	22.5	22.40	102.33%	0.234	0.239	-
					Back side	5	23230	782	22.5	22.40	102.33%	0.488	0.499	-
					Top side	5	23230	782	22.5	22.40	102.33%	0.013	0.013	-
					Bottom side	5	23230	782	22.5	22.40	102.33%	0.010	0.010	-
					Right side	5	23230	782	22.5	22.40	102.33%	0.335	0.343	-
					Left side	5	23230	782	22.5	22.40	102.33%	0.390	0.399	-
				50 RB	Front side	5	23230	782	22.5	22.35	103.51%	0.225	0.233	-
					Back side	5	23230	782	22.5	22.35	103.51%	0.462	0.478	-
					Top side	5	23230	782	22.5	22.35	103.51%	0.013	0.013	-
					Bottom side	5	23230	782	22.5	22.35	103.51%	0.009	0.009	-
				50 RB	Right side	5	23230	782	22.5	22.35	103.51%	0.322	0.333	-
					Left side	5	23230	782	22.5	22.35	103.51%	0.379	0.392	-

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LTE FDD Band 25

Band	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	5	26140	1860	20.5	20.26	105.68%	0.581	0.614	143
					Back side	5	26365	1882.5	20.5	20.31	104.47%	0.541	0.565	-
				99	Front side	5	26590	1905	20.5	20.46	100.93%	0.171	0.173	-
					Back side	5	26590	1905	20.5	20.46	100.93%	0.472	0.476	-
					Top side	5	26590	1905	20.5	20.46	100.93%	0.177	0.179	-
					Bottom side	5	26590	1905	20.5	20.46	100.93%	0.011	0.011	-
					Right side	5	26590	1905	20.5	20.46	100.93%	0.088	0.089	-
					Left side	5	26590	1905	20.5	20.46	100.93%	0.099	0.099	-
			50 RB	50	Front side	5	26140	1860	19.5	19.32	104.23%	0.142	0.148	-
					Back side	5	26140	1860	19.5	19.32	104.23%	0.393	0.410	-
				50	Top side	5	26140	1860	19.5	19.32	104.23%	0.145	0.151	-
					Bottom side	5	26140	1860	19.5	19.32	104.23%	0.009	0.009	-
					Right side	5	26140	1860	19.5	19.32	104.23%	0.073	0.076	-
					Left side	5	26140	1860	19.5	19.32	104.23%	0.082	0.085	-
			100 RB	50	Front side	5	26140	1860	19.5	19.33	103.99%	0.140	0.146	-
					Back side	5	26140	1860	19.5	19.33	103.99%	0.376	0.391	-
				100 RB	Top side	5	26140	1860	19.5	19.33	103.99%	0.138	0.144	-
					Bottom side	5	26140	1860	19.5	19.33	103.99%	0.008	0.008	-
					Right side	5	26140	1860	19.5	19.33	103.99%	0.068	0.071	-
					Left side	5	26140	1860	19.5	19.33	103.99%	0.076	0.079	-

LTE FDD Band 26

Band	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	Front side	5	26965	841.5	24	23.05	124.45%	0.243	0.302	-
					Back side	5	26765	821.5	24	22.67	135.83%	0.451	0.613	-
				0	Back side	5	26965	841.5	24	23.05	124.45%	0.499	0.621	144
					Top side	5	26965	841.5	24	23.05	124.45%	0.014	0.017	-
					Bottom side	5	26965	841.5	24	23.05	124.45%	0.010	0.012	-
					Right side	5	26965	841.5	24	23.05	124.45%	0.341	0.424	-
					Left side	5	26965	841.5	24	23.05	124.45%	0.400	0.498	-
				74	Back side	5	26865	831.5	24	22.69	135.21%	0.497	0.672	-
			36 RB	18	Front side	5	26865	831.5	23	21.87	129.72%	0.189	0.245	-
					Back side	5	26865	831.5	23	21.87	129.72%	0.393	0.510	-
				18	Top side	5	26865	831.5	23	21.87	129.72%	0.012	0.016	-
					Bottom side	5	26865	831.5	23	21.87	129.72%	0.008	0.011	-
					Right side	5	26865	831.5	23	21.87	129.72%	0.270	0.350	-
					Left side	5	26865	831.5	23	21.87	129.72%	0.316	0.410	-
			75 RB	18	Front side	5	26965	841.5	23	21.78	132.43%	0.180	0.238	-
					Back side	5	26965	841.5	23	21.78	132.43%	0.374	0.495	-
				75 RB	Top side	5	26965	841.5	23	21.78	132.43%	0.011	0.015	-
					Bottom side	5	26965	841.5	23	21.78	132.43%	0.007	0.009	-
					Right side	5	26965	841.5	23	21.78	132.43%	0.263	0.348	-
					Left side	5	26965	841.5	23	21.78	132.43%	0.301	0.399	-

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WLAN / BT

Badd	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	duty cycle scaling	power scaling	Averaged SAR over 1g (W/kg)		Plot page
									Measured	Reported	
WLAN 802.11b	Front side	5	11	2462	12	11.98	1.026	100.46%	0.007	0.007	-
	Back side	5	11	2462	12	11.98	1.026	100.46%	0.495	0.510	145
	Top side	5	11	2462	12	11.98	1.026	100.46%	0.007	0.007	-
	Bottom side	5	11	2462	12	11.98	1.026	100.46%	0.001	0.001	-
	Right side	5	11	2462	12	11.98	1.026	100.46%	0.074	0.076	-
	Left side	5	11	2462	12	11.98	1.026	100.46%	0.042	0.043	-
Bluetooth (GFSK)	Front side	5	78	2480	7.61	6.18	1.302	139.11%	0.001	0.002	-
	Back side	5	78	2480	7.61	6.18	1.302	139.11%	0.026	0.047	146
	Top side	5	78	2480	7.61	6.18	1.302	139.11%	0.001	0.002	-
	Bottom side	5	78	2480	7.61	6.18	1.302	139.11%	0.001	0.002	-
	Right side	5	78	2480	7.61	6.18	1.302	139.11%	0.015	0.027	-
	Left side	5	78	2480	7.61	6.18	1.302	139.11%	0.008	0.015	-
WLAN 802.11n(20M) 5.2G	Front side	5	48	5240	13.8	13.77	1.157	100.69%	0.051	0.059	-
	Back side	5	48	5240	13.8	13.77	1.157	100.69%	0.480	0.559	147
	Top side	5	48	5240	13.8	13.77	1.157	100.69%	0.039	0.045	-
	Bottom side	5	48	5240	13.8	13.77	1.157	100.69%	0.016	0.019	-
	Right side	5	48	5240	13.8	13.77	1.157	100.69%	0.399	0.465	-
	Left side	5	48	5240	13.8	13.77	1.157	100.69%	0.017	0.020	-
WLAN 802.11n(20M) 5.3G	Front side	5	52	5260	13.91	13.84	1.157	101.62%	0.033	0.039	-
	Back side	5	52	5260	13.91	13.84	1.157	101.62%	0.311	0.366	148
	Top side	5	52	5260	13.91	13.84	1.157	101.62%	0.025	0.029	-
	Bottom side	5	52	5260	13.91	13.84	1.157	101.62%	0.010	0.012	-
	Right side	5	52	5260	13.91	13.84	1.157	101.62%	0.254	0.299	-
	Left side	5	52	5260	13.91	13.84	1.157	101.62%	0.011	0.013	-
WLAN 802.11n(20M) 5.6G	Front side	5	140	5700	13.15	13.01	1.157	103.28%	0.024	0.029	-
	Back side	5	140	5700	13.15	13.01	1.157	103.28%	0.227	0.271	149
	Top side	5	140	5700	13.15	13.01	1.157	103.28%	0.018	0.022	-
	Bottom side	5	140	5700	13.15	13.01	1.157	103.28%	0.009	0.010	-
	Right side	5	140	5700	13.15	13.01	1.157	103.28%	0.186	0.222	-
	Left side	5	140	5700	13.15	13.01	1.157	103.28%	0.008	0.010	-
WLAN 802.11a 5.8G	Front side	5	149	5745	11.96	11.95	1.147	100.23%	0.026	0.030	-
	Back side	5	149	5745	11.96	11.95	1.147	100.23%	0.245	0.282	150
	Top side	5	149	5745	11.96	11.95	1.147	100.23%	0.020	0.023	-
	Bottom side	5	149	5745	11.96	11.95	1.147	100.23%	0.008	0.010	-
	Right side	5	149	5745	11.96	11.95	1.147	100.23%	0.200	0.230	-
	Left side	5	149	5745	11.96	11.95	1.147	100.23%	0.009	0.011	-

Note:

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

Reported SAR = measured SAR * Power scaling * Duty cycle scaling

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

2.3 Reporting statements of conformity

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

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3. Simultaneous Transmission Analysis

Simultaneous Transmission Scenarios:

Simultaneous Transmit Configurations	Body
GPRS + 2.4GHz Wi-Fi	Yes
WCDMA + 2.4GHz Wi-Fi	Yes
LTE + 2.4GHz Wi-Fi	Yes
GPRS + 5GHz Wi-Fi	Yes
WCDMA + 5GHz Wi-Fi	Yes
LTE + 5GHz Wi-Fi	Yes
GPRS + BT	Yes
WCDMA + BT	Yes
LTE + BT	Yes

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3.1 Estimated SAR calculation

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

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

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

3.2 SPLSR evaluation and analysis

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

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

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

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

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

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Simultaneous Transmission Combination

reported SAR WWAN and WLAN 2.4GHz, Σ SAR evaluation						
Frequency band	Position	Distance (mm)	reported SAR / W/kg		Σ SAR	SPLSR
			WWAN	WLAN	<1.6W/kg	
GPRS 850 (1Dn4UP)	Front side	5	0.316	0.007	0.323	Σ SAR<1.6,Not required
	Back side	5	0.867	0.510	1.377	Σ SAR<1.6,Not required
	Top side	5	0.351	0.007	0.358	Σ SAR<1.6,Not required
	Bottom side	5	0.018	0.001	0.019	Σ SAR<1.6,Not required
	Right side	5	0.405	0.076	0.481	Σ SAR<1.6,Not required
	Left side	5	0.291	0.043	0.334	Σ SAR<1.6,Not required
GPRS 1900 (1Dn4UP)	Front side	5	0.571	0.007	0.578	Σ SAR<1.6,Not required
	Back side	5	0.992	0.510	1.502	Σ SAR<1.6,Not required
	Top side	5	0.577	0.007	0.584	Σ SAR<1.6,Not required
	Bottom side	5	0.040	0.001	0.041	Σ SAR<1.6,Not required
	Right side	5	0.220	0.076	0.296	Σ SAR<1.6,Not required
	Left side	5	0.185	0.043	0.228	Σ SAR<1.6,Not required
WCDMA Band II	Front side	5	0.296	0.007	0.303	Σ SAR<1.6,Not required
	Back side	5	0.600	0.510	1.110	Σ SAR<1.6,Not required
	Top side	5	0.385	0.007	0.392	Σ SAR<1.6,Not required
	Bottom side	5	0.022	0.001	0.023	Σ SAR<1.6,Not required
	Right side	5	0.108	0.076	0.184	Σ SAR<1.6,Not required
	Left side	5	0.081	0.043	0.124	Σ SAR<1.6,Not required
WCDMA Band IV	Front side	5	0.362	0.007	0.369	Σ SAR<1.6,Not required
	Back side	5	0.602	0.510	1.112	Σ SAR<1.6,Not required
	Top side	5	0.811	0.007	0.818	Σ SAR<1.6,Not required
	Bottom side	5	0.006	0.001	0.007	Σ SAR<1.6,Not required
	Right side	5	0.033	0.076	0.109	Σ SAR<1.6,Not required
	Left side	5	0.124	0.043	0.167	Σ SAR<1.6,Not required
WCDMA Band V	Front side	5	0.180	0.007	0.187	Σ SAR<1.6,Not required
	Back side	5	0.766	0.510	1.276	Σ SAR<1.6,Not required
	Top side	5	0.248	0.007	0.255	Σ SAR<1.6,Not required
	Bottom side	5	0.006	0.001	0.007	Σ SAR<1.6,Not required
	Right side	5	0.293	0.076	0.369	Σ SAR<1.6,Not required
	Left side	5	0.095	0.043	0.138	Σ SAR<1.6,Not required
LTE Band 2	Front side	5	0.285	0.007	0.292	Σ SAR<1.6,Not required
	Back side	5	0.594	0.510	1.104	Σ SAR<1.6,Not required
	Top side	5	0.295	0.007	0.302	Σ SAR<1.6,Not required
	Bottom side	5	0.020	0.001	0.021	Σ SAR<1.6,Not required
	Right side	5	0.108	0.076	0.184	Σ SAR<1.6,Not required
	Left side	5	0.088	0.043	0.131	Σ SAR<1.6,Not required

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t (886-2) 2299-3279

f (886-2) 2298-0488

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reported SAR WWAN and WLAN 2.4GHz, Σ SAR evaluation						
Frequency band	Position	Distance (mm)	reported SAR / W/kg		Σ SAR	SPLSR
			WWAN	WLAN	<1.6W/kg	
LTE Band 4	Front side	5	0.149	0.007	0.156	Σ SAR<1.6,Not required
	Back side	5	0.657	0.510	1.167	Σ SAR<1.6,Not required
	Top side	5	0.527	0.007	0.534	Σ SAR<1.6,Not required
	Bottom side	5	0.002	0.001	0.003	Σ SAR<1.6,Not required
	Right side	5	0.110	0.076	0.186	Σ SAR<1.6,Not required
	Left side	5	0.075	0.043	0.118	Σ SAR<1.6,Not required
LTE Band 5	Front side	5	0.195	0.007	0.202	Σ SAR<1.6,Not required
	Back side	5	0.709	0.510	1.219	Σ SAR<1.6,Not required
	Top side	5	0.163	0.007	0.170	Σ SAR<1.6,Not required
	Bottom side	5	0.009	0.001	0.010	Σ SAR<1.6,Not required
	Right side	5	0.273	0.076	0.349	Σ SAR<1.6,Not required
	Left side	5	0.117	0.043	0.160	Σ SAR<1.6,Not required
LTE Band 7	Front side	5	0.459	0.007	0.466	Σ SAR<1.6,Not required
	Back side	5	0.548	0.510	1.058	Σ SAR<1.6,Not required
	Top side	5	0.748	0.007	0.755	Σ SAR<1.6,Not required
	Bottom side	5	0.054	0.001	0.055	Σ SAR<1.6,Not required
	Right side	5	0.159	0.076	0.235	Σ SAR<1.6,Not required
	Left side	5	0.605	0.043	0.648	Σ SAR<1.6,Not required
LTE Band 12	Front side	5	0.260	0.007	0.267	Σ SAR<1.6,Not required
	Back side	5	0.725	0.510	1.235	Σ SAR<1.6,Not required
	Top side	5	0.014	0.007	0.021	Σ SAR<1.6,Not required
	Bottom side	5	0.011	0.001	0.012	Σ SAR<1.6,Not required
	Right side	5	0.367	0.076	0.443	Σ SAR<1.6,Not required
	Left side	5	0.427	0.043	0.470	Σ SAR<1.6,Not required
LTE Band 13	Front side	5	0.319	0.007	0.326	Σ SAR<1.6,Not required
	Back side	5	0.683	0.510	1.193	Σ SAR<1.6,Not required
	Top side	5	0.018	0.007	0.025	Σ SAR<1.6,Not required
	Bottom side	5	0.014	0.001	0.015	Σ SAR<1.6,Not required
	Right side	5	0.449	0.076	0.525	Σ SAR<1.6,Not required
	Left side	5	0.524	0.043	0.567	Σ SAR<1.6,Not required
LTE Band 25	Front side	5	0.173	0.007	0.180	Σ SAR<1.6,Not required
	Back side	5	0.614	0.510	1.124	Σ SAR<1.6,Not required
	Top side	5	0.179	0.007	0.186	Σ SAR<1.6,Not required
	Bottom side	5	0.011	0.001	0.012	Σ SAR<1.6,Not required
	Right side	5	0.089	0.076	0.165	Σ SAR<1.6,Not required
	Left side	5	0.099	0.043	0.142	Σ SAR<1.6,Not required
LTE Band 26	Front side	5	0.302	0.007	0.309	Σ SAR<1.6,Not required
	Back side	5	0.672	0.510	1.182	Σ SAR<1.6,Not required
	Top side	5	0.017	0.007	0.024	Σ SAR<1.6,Not required
	Bottom side	5	0.012	0.001	0.013	Σ SAR<1.6,Not required
	Right side	5	0.424	0.076	0.500	Σ SAR<1.6,Not required
	Left side	5	0.498	0.043	0.541	Σ SAR<1.6,Not required

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reported SAR WWAN and WLAN 5GHz, ΣSAR evaluation						
Frequency band	Position	Distance (mm)	reported SAR / W/kg		ΣSAR	SPLSR
			WWAN	WLAN	<1.6W/kg	
GPRS 850 (1Dn4UP)	Front side	5	0.316	0.059	0.375	ΣSAR<1.6,Not required
	Back side	5	0.867	0.559	1.426	ΣSAR<1.6,Not required
	Top side	5	0.351	0.045	0.396	ΣSAR<1.6,Not required
	Bottom side	5	0.018	0.019	0.037	ΣSAR<1.6,Not required
	Right side	5	0.405	0.465	0.870	ΣSAR<1.6,Not required
	Left side	5	0.291	0.020	0.311	ΣSAR<1.6,Not required
GPRS 1900 (1Dn4UP)	Front side	5	0.571	0.059	0.630	ΣSAR<1.6,Not required
	Back side	5	0.992	0.559	1.551	ΣSAR<1.6,Not required
	Top side	5	0.577	0.045	0.622	ΣSAR<1.6,Not required
	Bottom side	5	0.040	0.019	0.059	ΣSAR<1.6,Not required
	Right side	5	0.220	0.465	0.685	ΣSAR<1.6,Not required
	Left side	5	0.185	0.020	0.205	ΣSAR<1.6,Not required
WCDMA Band II	Front side	5	0.296	0.059	0.355	ΣSAR<1.6,Not required
	Back side	5	0.600	0.559	1.159	ΣSAR<1.6,Not required
	Top side	5	0.385	0.045	0.430	ΣSAR<1.6,Not required
	Bottom side	5	0.022	0.019	0.041	ΣSAR<1.6,Not required
	Right side	5	0.108	0.465	0.573	ΣSAR<1.6,Not required
	Left side	5	0.081	0.020	0.101	ΣSAR<1.6,Not required
WCDMA Band IV	Front side	5	0.362	0.059	0.421	ΣSAR<1.6,Not required
	Back side	5	0.602	0.559	1.161	ΣSAR<1.6,Not required
	Top side	5	0.811	0.045	0.856	ΣSAR<1.6,Not required
	Bottom side	5	0.006	0.019	0.025	ΣSAR<1.6,Not required
	Right side	5	0.033	0.465	0.498	ΣSAR<1.6,Not required
	Left side	5	0.124	0.020	0.144	ΣSAR<1.6,Not required
WCDMA Band V	Front side	5	0.180	0.059	0.239	ΣSAR<1.6,Not required
	Back side	5	0.766	0.559	1.325	ΣSAR<1.6,Not required
	Top side	5	0.248	0.045	0.293	ΣSAR<1.6,Not required
	Bottom side	5	0.006	0.019	0.025	ΣSAR<1.6,Not required
	Right side	5	0.293	0.465	0.758	ΣSAR<1.6,Not required
	Left side	5	0.095	0.020	0.115	ΣSAR<1.6,Not required
LTE Band 2	Front side	5	0.285	0.059	0.344	ΣSAR<1.6,Not required
	Back side	5	0.594	0.559	1.153	ΣSAR<1.6,Not required
	Top side	5	0.295	0.045	0.340	ΣSAR<1.6,Not required
	Bottom side	5	0.020	0.019	0.039	ΣSAR<1.6,Not required
	Right side	5	0.108	0.465	0.573	ΣSAR<1.6,Not required
	Left side	5	0.088	0.020	0.108	ΣSAR<1.6,Not required

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Frequency band	Position	Distance (mm)	reported SAR / W/kg		ΣSAR	SPLSR
			WWAN	WLAN	<1.6W/kg	
LTE Band 4	Front side	5	0.149	0.059	0.208	ΣSAR<1.6,Not required
	Back side	5	0.657	0.559	1.216	ΣSAR<1.6,Not required
	Top side	5	0.527	0.045	0.572	ΣSAR<1.6,Not required
	Bottom side	5	0.002	0.019	0.021	ΣSAR<1.6,Not required
	Right side	5	0.110	0.465	0.575	ΣSAR<1.6,Not required
	Left side	5	0.075	0.020	0.095	ΣSAR<1.6,Not required
LTE Band 5	Front side	5	0.195	0.059	0.254	ΣSAR<1.6,Not required
	Back side	5	0.709	0.559	1.268	ΣSAR<1.6,Not required
	Top side	5	0.163	0.045	0.208	ΣSAR<1.6,Not required
	Bottom side	5	0.009	0.019	0.028	ΣSAR<1.6,Not required
	Right side	5	0.273	0.465	0.738	ΣSAR<1.6,Not required
	Left side	5	0.117	0.020	0.137	ΣSAR<1.6,Not required
LTE Band 7	Front side	5	0.459	0.059	0.518	ΣSAR<1.6,Not required
	Back side	5	0.548	0.559	1.107	ΣSAR<1.6,Not required
	Top side	5	0.748	0.045	0.793	ΣSAR<1.6,Not required
	Bottom side	5	0.054	0.019	0.073	ΣSAR<1.6,Not required
	Right side	5	0.159	0.465	0.624	ΣSAR<1.6,Not required
	Left side	5	0.605	0.020	0.625	ΣSAR<1.6,Not required
LTE Band 12	Front side	5	0.260	0.059	0.319	ΣSAR<1.6,Not required
	Back side	5	0.725	0.559	1.284	ΣSAR<1.6,Not required
	Top side	5	0.014	0.045	0.059	ΣSAR<1.6,Not required
	Bottom side	5	0.011	0.019	0.030	ΣSAR<1.6,Not required
	Right side	5	0.367	0.465	0.832	ΣSAR<1.6,Not required
	Left side	5	0.427	0.020	0.447	ΣSAR<1.6,Not required
LTE Band 13	Front side	5	0.319	0.059	0.378	ΣSAR<1.6,Not required
	Back side	5	0.683	0.559	1.242	ΣSAR<1.6,Not required
	Top side	5	0.018	0.045	0.063	ΣSAR<1.6,Not required
	Bottom side	5	0.014	0.019	0.033	ΣSAR<1.6,Not required
	Right side	5	0.449	0.465	0.914	ΣSAR<1.6,Not required
	Left side	5	0.524	0.020	0.544	ΣSAR<1.6,Not required
LTE Band 25	Front side	5	0.173	0.059	0.232	ΣSAR<1.6,Not required
	Back side	5	0.614	0.559	1.173	ΣSAR<1.6,Not required
	Top side	5	0.179	0.045	0.224	ΣSAR<1.6,Not required
	Bottom side	5	0.011	0.019	0.030	ΣSAR<1.6,Not required
	Right side	5	0.089	0.465	0.554	ΣSAR<1.6,Not required
	Left side	5	0.099	0.020	0.119	ΣSAR<1.6,Not required
LTE Band 26	Front side	5	0.302	0.059	0.361	ΣSAR<1.6,Not required
	Back side	5	0.672	0.559	1.231	ΣSAR<1.6,Not required
	Top side	5	0.017	0.045	0.062	ΣSAR<1.6,Not required
	Bottom side	5	0.012	0.019	0.031	ΣSAR<1.6,Not required
	Right side	5	0.424	0.465	0.889	ΣSAR<1.6,Not required
	Left side	5	0.498	0.020	0.518	ΣSAR<1.6,Not required

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reported SAR WWAN and Bluetooth, Σ SAR evaluation						
Frequency band	Position	Distance (mm)	reported SAR / W/kg		Σ SAR	SPLSR
			WWAN	BT	<1.6W/kg	
GPRS 850 (1Dn4UP)	Front side	5	0.316	0.002	0.318	Σ SAR<1.6,Not required
	Back side	5	0.867	0.047	0.914	Σ SAR<1.6,Not required
	Top side	5	0.351	0.002	0.353	Σ SAR<1.6,Not required
	Bottom side	5	0.018	0.002	0.020	Σ SAR<1.6,Not required
	Right side	5	0.405	0.027	0.432	Σ SAR<1.6,Not required
	Left side	5	0.291	0.015	0.306	Σ SAR<1.6,Not required
GPRS 1900 (1Dn4UP)	Front side	5	0.571	0.002	0.573	Σ SAR<1.6,Not required
	Back side	5	0.992	0.047	1.039	Σ SAR<1.6,Not required
	Top side	5	0.577	0.002	0.579	Σ SAR<1.6,Not required
	Bottom side	5	0.040	0.002	0.042	Σ SAR<1.6,Not required
	Right side	5	0.220	0.027	0.247	Σ SAR<1.6,Not required
	Left side	5	0.185	0.015	0.200	Σ SAR<1.6,Not required
WCDMA Band II	Front side	5	0.296	0.002	0.298	Σ SAR<1.6,Not required
	Back side	5	0.600	0.047	0.647	Σ SAR<1.6,Not required
	Top side	5	0.385	0.002	0.387	Σ SAR<1.6,Not required
	Bottom side	5	0.022	0.002	0.024	Σ SAR<1.6,Not required
	Right side	5	0.108	0.027	0.135	Σ SAR<1.6,Not required
	Left side	5	0.081	0.015	0.096	Σ SAR<1.6,Not required
WCDMA Band IV	Front side	5	0.362	0.002	0.364	Σ SAR<1.6,Not required
	Back side	5	0.602	0.047	0.649	Σ SAR<1.6,Not required
	Top side	5	0.811	0.002	0.813	Σ SAR<1.6,Not required
	Bottom side	5	0.006	0.002	0.008	Σ SAR<1.6,Not required
	Right side	5	0.033	0.027	0.060	Σ SAR<1.6,Not required
	Left side	5	0.124	0.015	0.139	Σ SAR<1.6,Not required
WCDMA Band V	Front side	5	0.180	0.002	0.182	Σ SAR<1.6,Not required
	Back side	5	0.766	0.047	0.813	Σ SAR<1.6,Not required
	Top side	5	0.248	0.002	0.250	Σ SAR<1.6,Not required
	Bottom side	5	0.006	0.002	0.008	Σ SAR<1.6,Not required
	Right side	5	0.293	0.027	0.320	Σ SAR<1.6,Not required
	Left side	5	0.095	0.015	0.110	Σ SAR<1.6,Not required
LTE Band 2	Front side	5	0.285	0.002	0.287	Σ SAR<1.6,Not required
	Back side	5	0.594	0.047	0.641	Σ SAR<1.6,Not required
	Top side	5	0.295	0.002	0.297	Σ SAR<1.6,Not required
	Bottom side	5	0.020	0.002	0.022	Σ SAR<1.6,Not required
	Right side	5	0.108	0.027	0.135	Σ SAR<1.6,Not required
	Left side	5	0.088	0.015	0.103	Σ SAR<1.6,Not required

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f (886-2) 2298-0488

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reported SAR WWAN and Bluetooth, Σ SAR evaluation						
Frequency band	Position	Distance (mm)	reported SAR / W/kg		Σ SAR	SPLSR
			WWAN	BT	<1.6W/kg	
LTE Band 4	Front side	5	0.149	0.002	0.151	Σ SAR<1.6,Not required
	Back side	5	0.657	0.047	0.704	Σ SAR<1.6,Not required
	Top side	5	0.527	0.002	0.529	Σ SAR<1.6,Not required
	Bottom side	5	0.002	0.002	0.004	Σ SAR<1.6,Not required
	Right side	5	0.110	0.027	0.137	Σ SAR<1.6,Not required
	Left side	5	0.075	0.015	0.090	Σ SAR<1.6,Not required
LTE Band 5	Front side	5	0.195	0.002	0.197	Σ SAR<1.6,Not required
	Back side	5	0.709	0.047	0.756	Σ SAR<1.6,Not required
	Top side	5	0.163	0.002	0.165	Σ SAR<1.6,Not required
	Bottom side	5	0.009	0.002	0.011	Σ SAR<1.6,Not required
	Right side	5	0.273	0.027	0.300	Σ SAR<1.6,Not required
	Left side	5	0.117	0.015	0.132	Σ SAR<1.6,Not required
LTE Band 7	Front side	5	0.459	0.002	0.461	Σ SAR<1.6,Not required
	Back side	5	0.548	0.047	0.595	Σ SAR<1.6,Not required
	Top side	5	0.748	0.002	0.750	Σ SAR<1.6,Not required
	Bottom side	5	0.054	0.002	0.056	Σ SAR<1.6,Not required
	Right side	5	0.159	0.027	0.186	Σ SAR<1.6,Not required
	Left side	5	0.605	0.015	0.620	Σ SAR<1.6,Not required
LTE Band 12	Front side	5	0.260	0.002	0.262	Σ SAR<1.6,Not required
	Back side	5	0.725	0.047	0.772	Σ SAR<1.6,Not required
	Top side	5	0.014	0.002	0.016	Σ SAR<1.6,Not required
	Bottom side	5	0.011	0.002	0.013	Σ SAR<1.6,Not required
	Right side	5	0.367	0.027	0.394	Σ SAR<1.6,Not required
	Left side	5	0.427	0.015	0.442	Σ SAR<1.6,Not required
LTE Band 13	Front side	5	0.319	0.002	0.321	Σ SAR<1.6,Not required
	Back side	5	0.683	0.047	0.730	Σ SAR<1.6,Not required
	Top side	5	0.018	0.002	0.020	Σ SAR<1.6,Not required
	Bottom side	5	0.014	0.002	0.016	Σ SAR<1.6,Not required
	Right side	5	0.449	0.027	0.476	Σ SAR<1.6,Not required
	Left side	5	0.524	0.015	0.539	Σ SAR<1.6,Not required
LTE Band 25	Front side	5	0.173	0.002	0.175	Σ SAR<1.6,Not required
	Back side	5	0.614	0.047	0.661	Σ SAR<1.6,Not required
	Top side	5	0.179	0.002	0.181	Σ SAR<1.6,Not required
	Bottom side	5	0.011	0.002	0.013	Σ SAR<1.6,Not required
	Right side	5	0.089	0.027	0.116	Σ SAR<1.6,Not required
	Left side	5	0.099	0.015	0.114	Σ SAR<1.6,Not required
LTE Band 26	Front side	5	0.302	0.002	0.304	Σ SAR<1.6,Not required
	Back side	5	0.672	0.047	0.719	Σ SAR<1.6,Not required
	Top side	5	0.017	0.002	0.019	Σ SAR<1.6,Not required
	Bottom side	5	0.012	0.002	0.014	Σ SAR<1.6,Not required
	Right side	5	0.424	0.027	0.451	Σ SAR<1.6,Not required
	Left side	5	0.498	0.015	0.513	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	3938	Feb.27,2020	Feb.26,2021
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.22,2020	Apr.21,2021
		D2450V2	727	Apr.22,2020	Apr.21,2021
		D2600V2	1005	Jan.29,2020	Jan.28,2021
		D5GHzV2	1023	Jan.28,2020	Jan.27,2021
SPEAG	Data acquisition Electronics	DAE4	547	Mar.17,2020	Mar.16,2021
SPEAG	Software	DASY 52 V52.10.3	N/A	Calibration not required	Calibration not required
SPEAG	Phantom	SAM	N/A	Calibration not required	Calibration not required
Network Analyzer	Agilent	E5071C	MY46100433	Dec.13,2019	Dec.12,2020
Agilent	Dielectric Probe Kit	85070E	MY44300677	Calibration not required	Calibration not required
Agilent	Dual-directional coupler	772D	MY52180142	Aug.30,2019	Aug.29,2020
		778D	MY52180302	Aug.30,2019	Aug.29,2020
Agilent	MXG Analog Signal Generator	N5181A	MY50144142	Dec.12,2019	Dec.11,2020
Agilent	Power Meter	ML2496A	1337004	Sep.19,2019	Sep.18,2020
Agilent	Power Sensor	MA2411B	1306052	Sep.19,2019	Sep.18,2020
TECPEL	Digital thermometer	DTM-303A	TP190085	Dec.16,2019	Dec.15,2020
Anritsu	Radio Communication Test	MT8820C	6201061014	Dec.08,2019	Dec.07,2020

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5. Measurements

Date: 2020/8/10

Report No. : E5/2020/40007

GPRS 850_Body_Back side_CH 128_5mm

Communication System: GPRS 850; Frequency: 824.2 MHz; Duty Cycle: 1:2.67

Medium parameters used: $f = 824.2$ MHz; $\sigma = 0.91$ S/m; $\epsilon_r = 41.934$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(9.48, 9.48, 9.48); Calibrated: 2020/2/27
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2020/3/17
- Phantom: SAM
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (71x131x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.822 W/kg

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

Reference Value = 18.18 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 1.01 W/kg

SAR(1 g) = 0.664 W/kg; SAR(10 g) = 0.439 W/kg

Smallest distance from peaks to all points 3 dB below = 15.2 mm

Ratio of SAR at M2 to SAR at M1 = 68.5%

Maximum value of SAR (measured) = 0.823 W/kg

Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.18 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 1.02 W/kg

SAR(1 g) = 0.597 W/kg; SAR(10 g) = 0.356 W/kg

Smallest distance from peaks to all points 3 dB below = 14.5 mm

Ratio of SAR at M2 to SAR at M1 = 61.7%

Maximum value of SAR (measured) = 0.828 W/kg

Zoom Scan (5x5x7)/Cube 2: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.18 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.954 W/kg

SAR(1 g) = 0.545 W/kg; SAR(10 g) = 0.341 W/kg

Smallest distance from peaks to all points 3 dB below = 13.8 mm

Ratio of SAR at M2 to SAR at M1 = 59.2%

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

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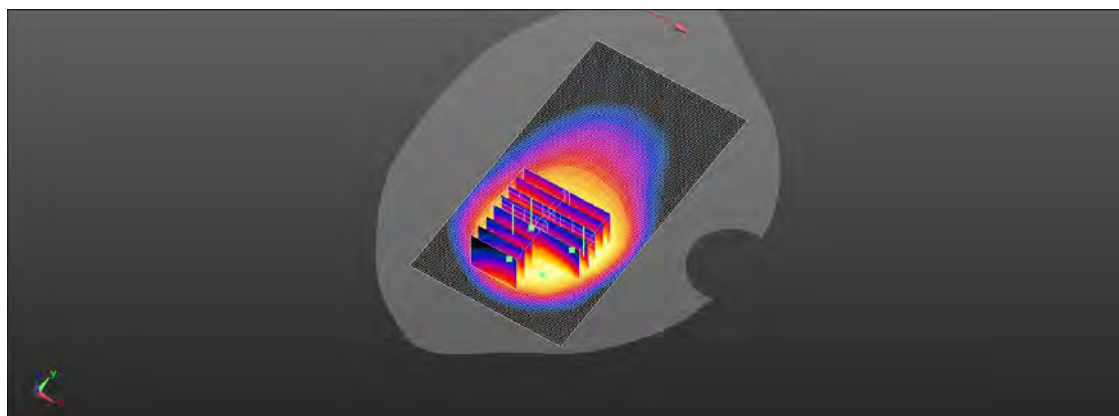
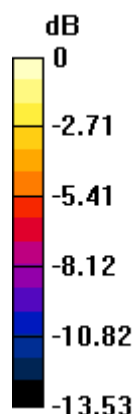
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0 dB = 0.758 W/kg = -1.20 dBW/kg

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Date: 2020/8/27

Report No. : E5/2020/40007

GPRS 1900_Body_Back side_CH 512_5mm

Communication System: GPRS 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:2

Medium parameters used: $f = 1850.2$ MHz; $\sigma = 1.392$ S/m; $\epsilon_r = 40.092$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(8.07, 8.07, 8.07); Calibrated: 2020/2/27
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2020/3/17
- Phantom: SAM
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (71x131x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.997 W/kg

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

Reference Value = 10.97 V/m; Power Drift = 0.04 dB

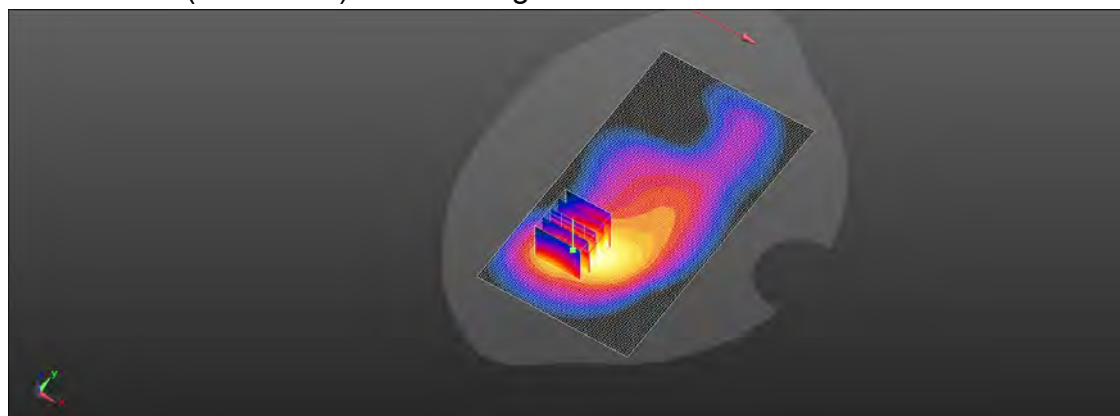
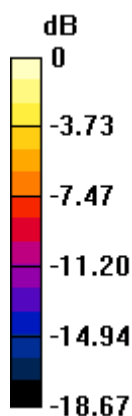
Peak SAR (extrapolated) = 1.26 W/kg

SAR(1 g) = 0.751 W/kg; SAR(10 g) = 0.425 W/kg

Smallest distance from peaks to all points 3 dB below = 10.1 mm

Ratio of SAR at M2 to SAR at M1 = 58.3%

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



0 dB = 1.02 W/kg = 0.08 dBW/kg

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Date: 2020/8/13

Report No. : E5/2020/40007

WCDMA Band II_Body_Back side_CH 9262_5mm

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

Medium parameters used: $f = 1852.4$ MHz; $\sigma = 1.393$ S/m; $\epsilon_r = 40.084$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(8.07, 8.07, 8.07); Calibrated: 2020/2/27
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2020/3/17
- Phantom: SAM
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (71x131x1): Interpolated grid: dx=15 mm, dy=15 mm

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

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

Reference Value = 7.916 V/m; Power Drift = 0.02 dB

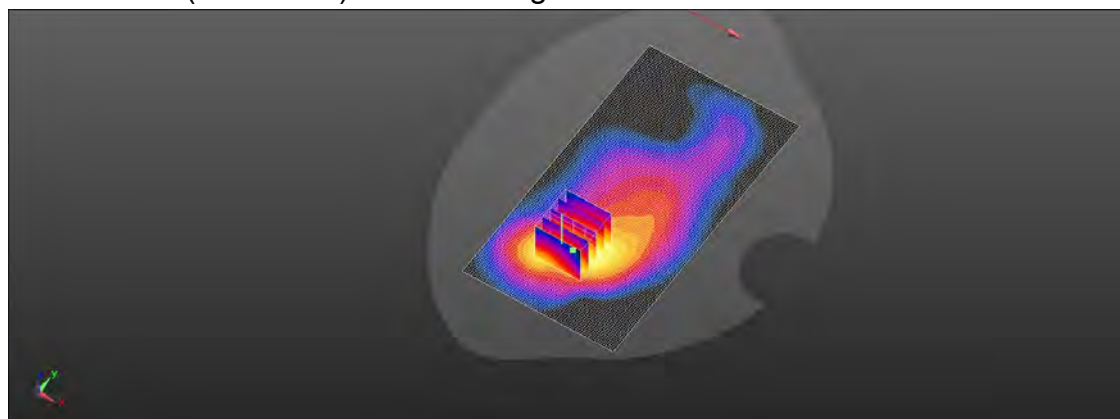
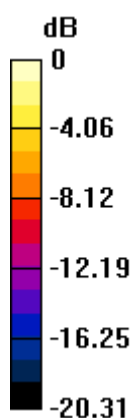
Peak SAR (extrapolated) = 0.968 W/kg

SAR(1 g) = 0.529 W/kg; SAR(10 g) = 0.282 W/kg

Smallest distance from peaks to all points 3 dB below = 10.1 mm

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

Maximum value of SAR (measured) = 0.731 W/kg



0 dB = 0.731 W/kg = -1.36 dBW/kg

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Date: 2020/8/12

Report No. : E5/2020/40007**WCDMA Band IV_Body_Top side_CH 1513_5mm**

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

Medium parameters used: $f = 1753$ MHz; $\sigma = 1.368$ S/m; $\epsilon_r = 40.155$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(8.31, 8.31, 8.31); Calibrated: 2020/2/27
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2020/3/17
- Phantom: SAM
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (41x81x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.770 W/kg

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

Reference Value = 15.72 V/m; Power Drift = 0.04 dB

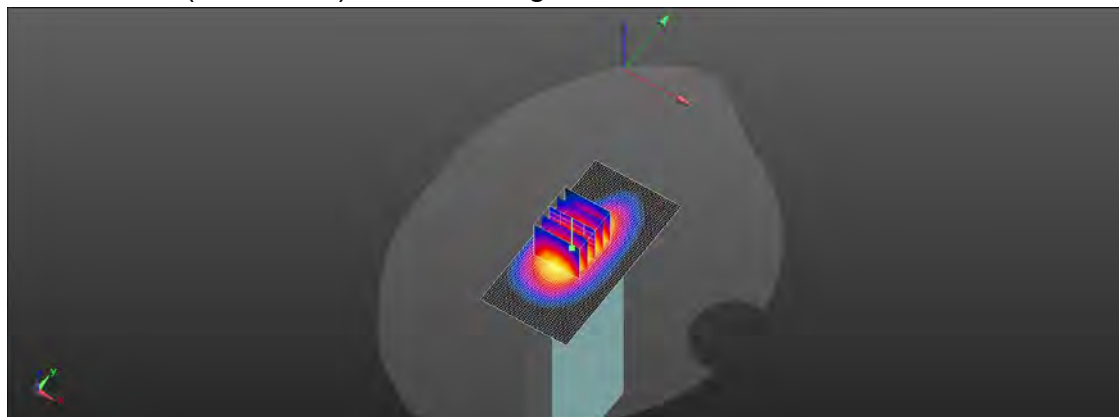
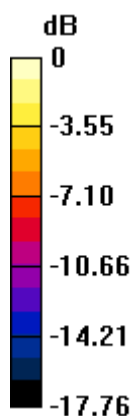
Peak SAR (extrapolated) = 0.932 W/kg

SAR(1 g) = 0.536 W/kg; SAR(10 g) = 0.281 W/kg

Smallest distance from peaks to all points 3 dB below = 10.6 mm

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

Maximum value of SAR (measured) = 0.752 W/kg



0 dB = 0.752 W/kg = -1.23 dBW/kg

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Date: 2020/8/10

Report No. : E5/2020/40007**WCDMA Band V_Body_Back side_CH 4233_5mm**

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

Medium parameters used: $f = 847$ MHz; $\sigma = 0.926$ S/m; $\epsilon_r = 41.869$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(9.48, 9.48, 9.48); Calibrated: 2020/2/27
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2020/3/17
- Phantom: SAM
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (71x131x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.603 W/kg

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

Reference Value = 16.15 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.687 W/kg

SAR(1 g) = 0.505 W/kg; SAR(10 g) = 0.347 W/kg

Smallest distance from peaks to all points 3 dB below = 12.3 mm

Ratio of SAR at M2 to SAR at M1 = 74.4%

Maximum value of SAR (measured) = 0.604 W/kg

Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.15 V/m; Power Drift = -0.04 dB

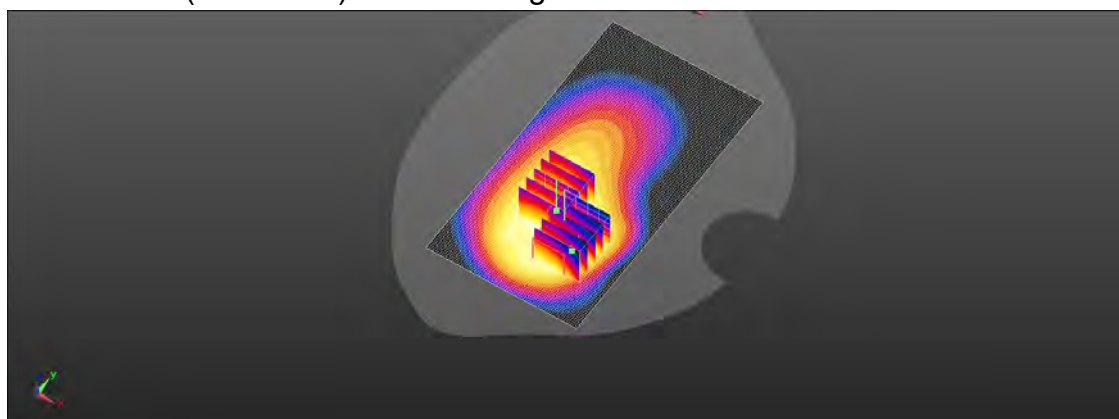
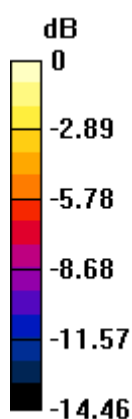
Peak SAR (extrapolated) = 0.669 W/kg

SAR(1 g) = 0.372 W/kg; SAR(10 g) = 0.247 W/kg

Smallest distance from peaks to all points 3 dB below = 12.1 mm

Ratio of SAR at M2 to SAR at M1 = 69%

Maximum value of SAR (measured) = 0.570 W/kg



0 dB = 0.570 W/kg = -2.44 dBW/kg

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Date: 2020/8/13

Report No. : E5/2020/40007**LTE Band 2 (20MHz)_Body_Back side_CH 18900_QPSK_1-0_5mm**

Communication System: LTE; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.395$ S/m; $\epsilon_r = 40.076$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(8.07, 8.07, 8.07); Calibrated: 2020/2/27
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2020/3/17
- Phantom: SAM
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (71x131x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.776 W/kg

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

Reference Value = 8.388 V/m; Power Drift = 0.03 dB

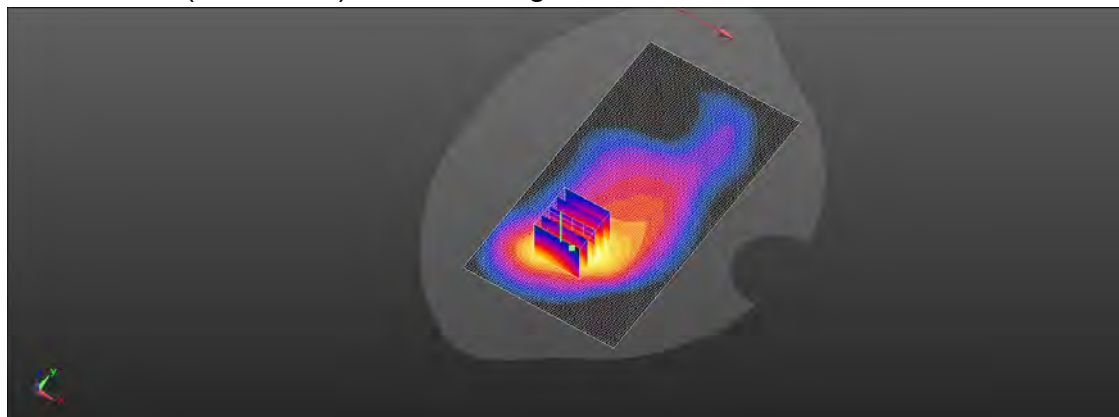
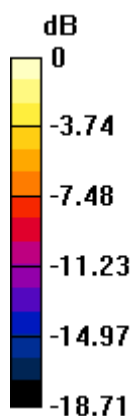
Peak SAR (extrapolated) = 1.04 W/kg

SAR(1 g) = 0.565 W/kg; SAR(10 g) = 0.300 W/kg

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

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

Maximum value of SAR (measured) = 0.749 W/kg



0 dB = 0.749 W/kg = -1.25 dBW/kg

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Date: 2020/8/12

Report No. : E5/2020/40007**LTE Band 4 (20MHz)_Body_Back side_CH 20175_QPSK_1-0_5mm**

Communication System: LTE; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1732.5$ MHz; $\sigma = 1.355$ S/m; $\epsilon_r = 40.173$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(8.31, 8.31, 8.31); Calibrated: 2020/2/27
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2020/3/17
- Phantom: SAM
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (71x131x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.549 W/kg

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

Reference Value = 4.701 V/m; Power Drift = -0.07 dB

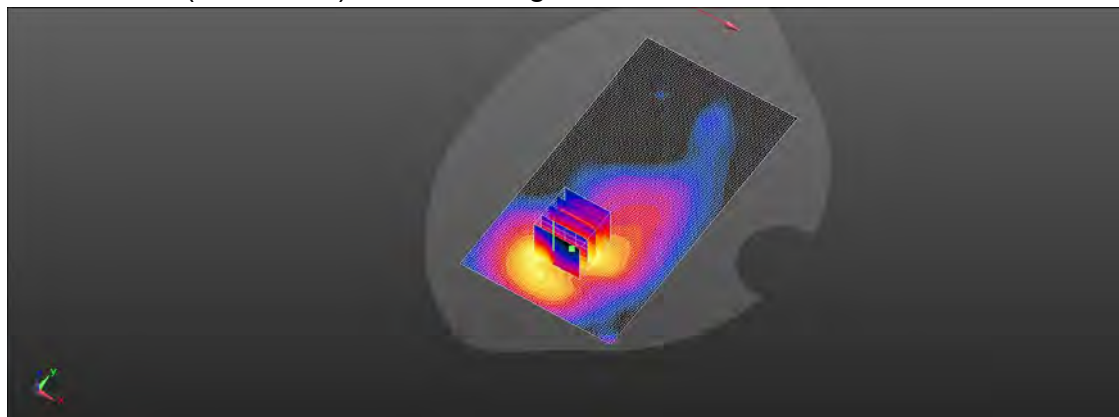
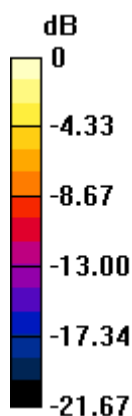
Peak SAR (extrapolated) = 0.959 W/kg

SAR(1 g) = 0.433 W/kg; SAR(10 g) = 0.203 W/kg

Smallest distance from peaks to all points 3 dB below = 9.8 mm

Ratio of SAR at M2 to SAR at M1 = 56.5%

Maximum value of SAR (measured) = 0.718 W/kg



0 dB = 0.718 W/kg = -1.44 dBW/kg

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Date: 2020/8/10

Report No. : E5/2020/40007**LTE Band 5 (10MHz)_Body_Back side_CH 20600_QPSK_1-0_5mm**

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

Medium parameters used: $f = 844 \text{ MHz}$; $\sigma = 0.923 \text{ S/m}$; $\epsilon_r = 41.871$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(9.48, 9.48, 9.48); Calibrated: 2020/2/27
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2020/3/17
- Phantom: SAM
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (71x131x1): Interpolated grid: $dx=15 \text{ mm}$, $dy=15 \text{ mm}$

Maximum value of SAR (interpolated) = 0.599 W/kg

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

Reference Value = 14.94 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.663 W/kg

SAR(1 g) = 0.491 W/kg; SAR(10 g) = 0.336 W/kg

Smallest distance from peaks to all points 3 dB below = 12.2 mm

Ratio of SAR at M2 to SAR at M1 = 75.4%

Maximum value of SAR (measured) = 0.582 W/kg

Zoom Scan (5x5x7)/Cube 1: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 14.94 V/m; Power Drift = -0.05 dB

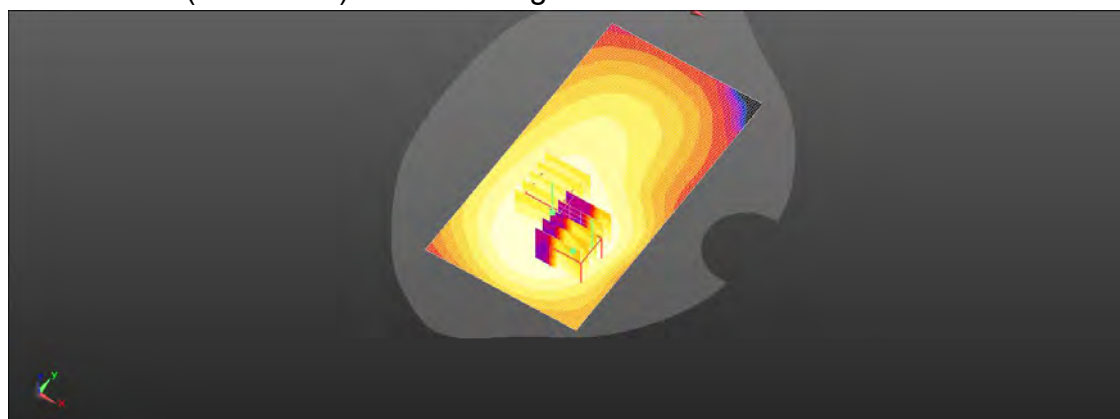
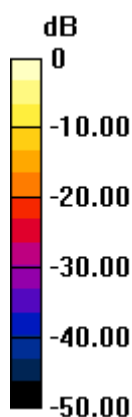
Peak SAR (extrapolated) = 1.09 W/kg

SAR(1 g) = 0.451 W/kg; SAR(10 g) = 0.178 W/kg

Smallest distance from peaks to all points 3 dB below = 11.8 mm

Ratio of SAR at M2 to SAR at M1 = 64.8%

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



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

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Date: 2020/8/14

Report No. : E5/2020/40007**LTE Band 7 (20MHz)_Body_Top side_CH 21350_QPSK_1-99_5mm**

Communication System: LTE; Frequency: 2560 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2560$ MHz; $\sigma = 1.91$ S/m; $\epsilon_r = 38.837$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(7.44, 7.44, 7.44); Calibrated: 2020/2/27
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2020/3/17
- Phantom: SAM
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (61x101x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.923 W/kg

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

Reference Value = 17.74 V/m; Power Drift = 0.04 dB

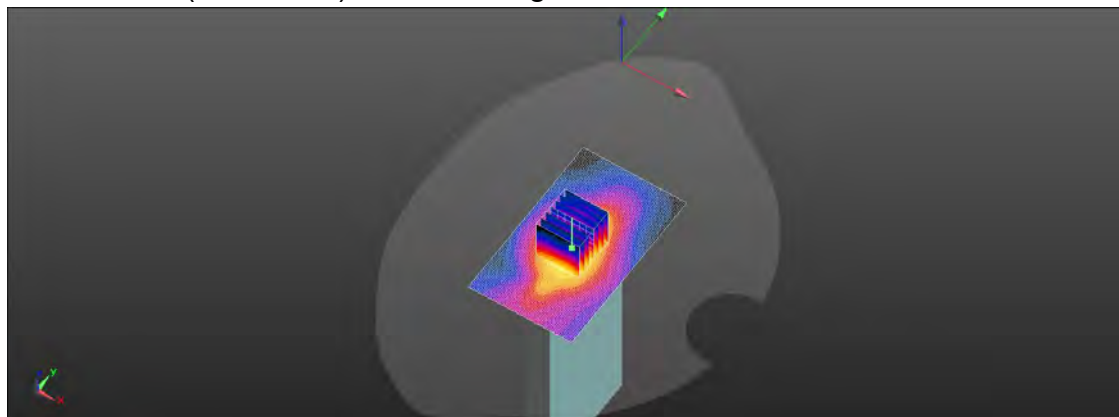
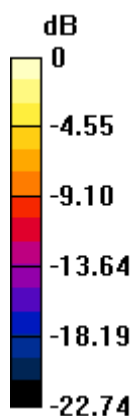
Peak SAR (extrapolated) = 1.34 W/kg

SAR(1 g) = 0.593 W/kg; SAR(10 g) = 0.261 W/kg

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

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

Maximum value of SAR (measured) = 0.958 W/kg



0 dB = 0.958 W/kg = -0.19 dBW/kg

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Date: 2020/8/9

Report No. : E5/2020/40007

LTE Band 12 (10MHz)_Body_Back side_CH 23130_QPSK_1-25_5mm

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

Medium parameters used: $f = 711 \text{ MHz}$; $\sigma = 0.903 \text{ S/m}$; $\epsilon_r = 42.539$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 21.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(9.72, 9.72, 9.72); Calibrated: 2020/2/27
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2020/3/17
- Phantom: SAM
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (71x131x1): Interpolated grid: $dx=15 \text{ mm}$, $dy=15 \text{ mm}$

Maximum value of SAR (interpolated) = 0.765 W/kg

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

Reference Value = 30.65 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.871 W/kg

SAR(1 g) = 0.683 W/kg; SAR(10 g) = 0.518 W/kg

Smallest distance from peaks to all points 3 dB below = 12.6 mm

Ratio of SAR at M2 to SAR at M1 = 78.6%

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

Zoom Scan (5x5x7)/Cube 1: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 30.65 V/m; Power Drift = -0.07 dB

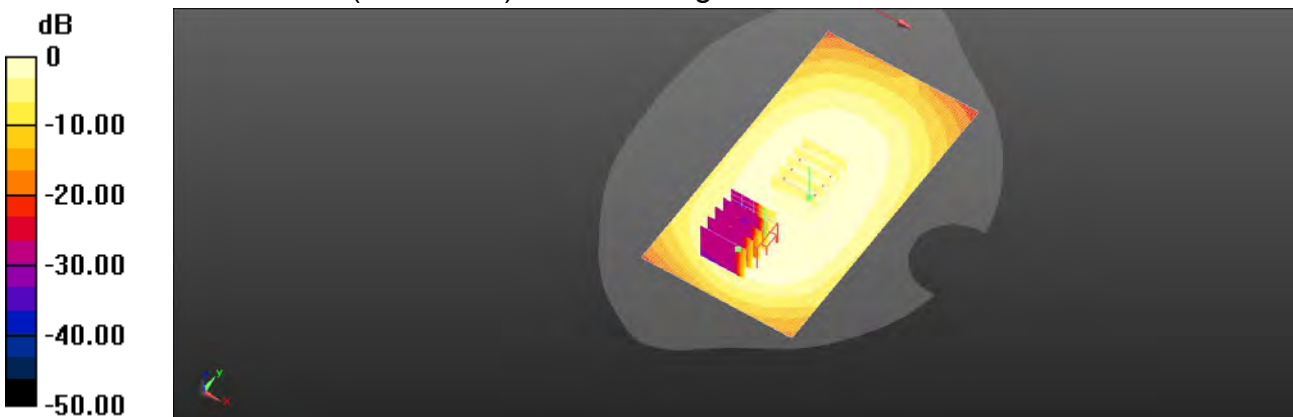
Peak SAR (extrapolated) = 1.09 W/kg

SAR(1 g) = 0.145 W/kg; SAR(10 g) = 0.040 W/kg

Smallest distance from peaks to all points 3 dB below = 11.7 mm

Ratio of SAR at M2 to SAR at M1 = 67.2%

Maximum value of SAR (measured) = 0.546 W/kg



0 dB = 0.546 W/kg = -2.63 dBW/kg

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Date: 2020/8/9

Report No. : E5/2020/40007**LTE Band 13 (10MHz)_Body_Back side_CH 23230_QPSK_1-0_5mm**

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

Medium parameters used: $f = 782 \text{ MHz}$; $\sigma = 0.909 \text{ S/m}$; $\epsilon_r = 42.147$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 21.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(9.72, 9.72, 9.72); Calibrated: 2020/2/27
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2020/3/17
- Phantom: SAM
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (71x131x1): Interpolated grid: $dx=15 \text{ mm}$, $dy=15 \text{ mm}$

Maximum value of SAR (interpolated) = 0.859 W/kg

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

Reference Value = 24.47 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 1.17 W/kg

SAR(1 g) = 0.646 W/kg; SAR(10 g) = 0.373 W/kg

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

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

Maximum value of SAR (measured) = 0.922 W/kg

Zoom Scan (5x5x7)/Cube 1: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 24.47 V/m; Power Drift = -0.04 dB

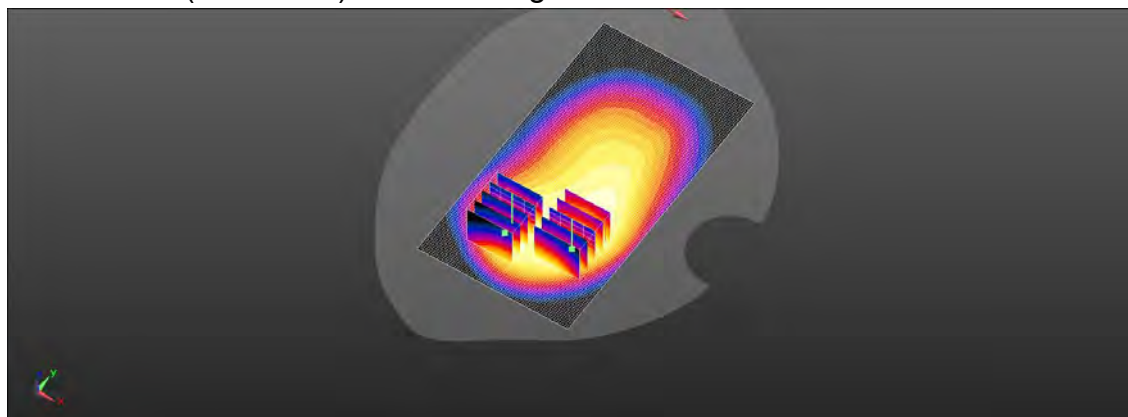
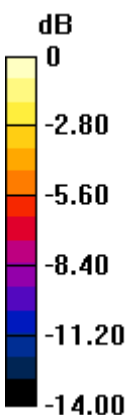
Peak SAR (extrapolated) = 1.02 W/kg

SAR(1 g) = 0.658 W/kg; SAR(10 g) = 0.420 W/kg

Smallest distance from peaks to all points 3 dB below = 12.5 mm

Ratio of SAR at M2 to SAR at M1 = 63.5%

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



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

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Date: 2020/8/13

Report No. : E5/2020/40007**LTE Band 25 (20MHz)_Body_Back side_CH 26140_QPSK_1-0_5mm**

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

Medium parameters used: $f = 1860$ MHz; $\sigma = 1.394$ S/m; $\epsilon_r = 40.08$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(8.07, 8.07, 8.07); Calibrated: 2020/2/27
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2020/3/17
- Phantom: SAM
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (71x131x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.736 W/kg

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

Reference Value = 8.593 V/m; Power Drift = -0.01 dB

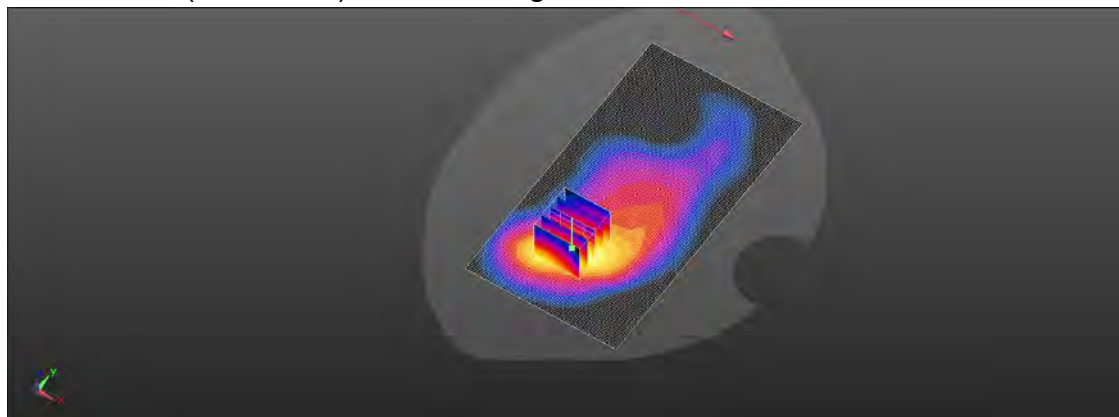
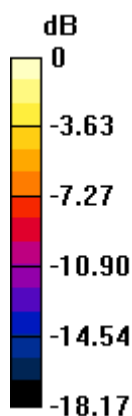
Peak SAR (extrapolated) = 1.06 W/kg

SAR(1 g) = 0.581 W/kg; SAR(10 g) = 0.305 W/kg

Smallest distance from peaks to all points 3 dB below = 11.6mm

Ratio of SAR at M2 to SAR at M1 = 60.3%

Maximum value of SAR (measured) = 0.759 W/kg



0 dB = 0.759 W/kg = -1.20 dBW/kg

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Date: 2020/8/11

Report No. : E5/2020/40007**LTE Band 26 (15MHz)_Body_Back side_CH 26965_QPSK_1-0_5mm**

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

Medium parameters used: $f = 841.5$ MHz; $\sigma = 0.92$ S/m; $\epsilon_r = 41.861$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(9.48, 9.48, 9.48); Calibrated: 2020/2/27
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2020/3/17
- Phantom: SAM
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (71x131x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.591 W/kg

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

Reference Value = 14.40 V/m; Power Drift = -0.06 dB

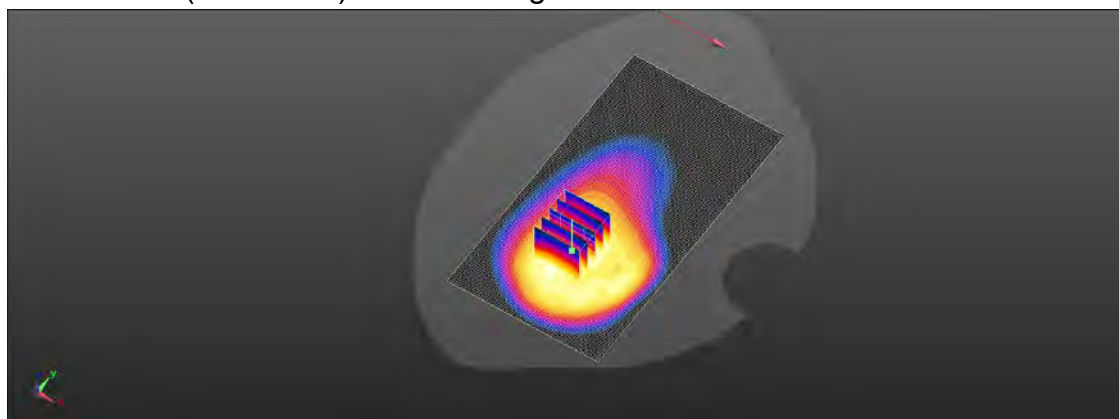
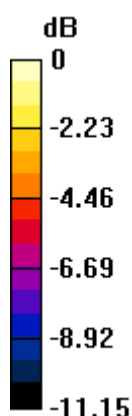
Peak SAR (extrapolated) = 0.683 W/kg

SAR(1 g) = 0.499 W/kg; SAR(10 g) = 0.343 W/kg

Smallest distance from peaks to all points 3 dB below = 12.3mm

Ratio of SAR at M2 to SAR at M1 = 73.1%

Maximum value of SAR (measured) = 0.599 W/kg



0 dB = 0.599 W/kg = -2.23 dBW/kg

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Date: 2020/8/14

Report No. : E5/2020/40007

WLAN 802.11b_Body_Back side_CH 11_5mm

Communication System: WLAN 2.45G; Frequency: 2462 MHz; Duty Cycle: 1:0.975

Medium parameters used: $f = 2462$ MHz; $\sigma = 1.805$ S/m; $\epsilon_r = 38.954$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(7.59, 7.59, 7.59); Calibrated: 2020/2/27
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2020/3/17
- Phantom: SAM
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (81x161x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 1.74 W/kg

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

Reference Value = 3.432 V/m; Power Drift = 0.05 dB

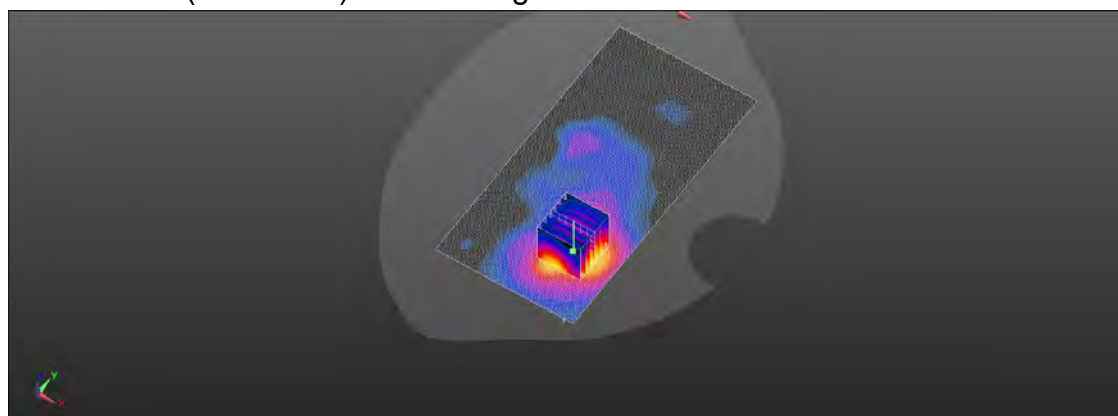
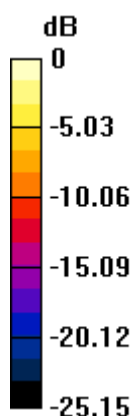
Peak SAR (extrapolated) = 3.00 W/kg

SAR(1 g) = 0.495 W/kg; SAR(10 g) = 0.183 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 42.6%

Maximum value of SAR (measured) = 2.02 W/kg



0 dB = 2.02 W/kg = 3.04 dBW/kg

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Date: 2020/8/14

Report No. : E5/2020/40007**Bluetooth(GFSK)_Body_Back side_CH 78_5mm**

Communication System: Bluetooth; Frequency: 2480 MHz; Duty Cycle: 1:0.768

Medium parameters used: $f = 2480$ MHz; $\sigma = 1.818$ S/m; $\epsilon_r = 38.919$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(7.59, 7.59, 7.59); Calibrated: 2020/2/27
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2020/3/17
- Phantom: SAM
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (81x161x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.056 W/kg

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

Reference Value = 0.2520 V/m; Power Drift = 0.01 dB

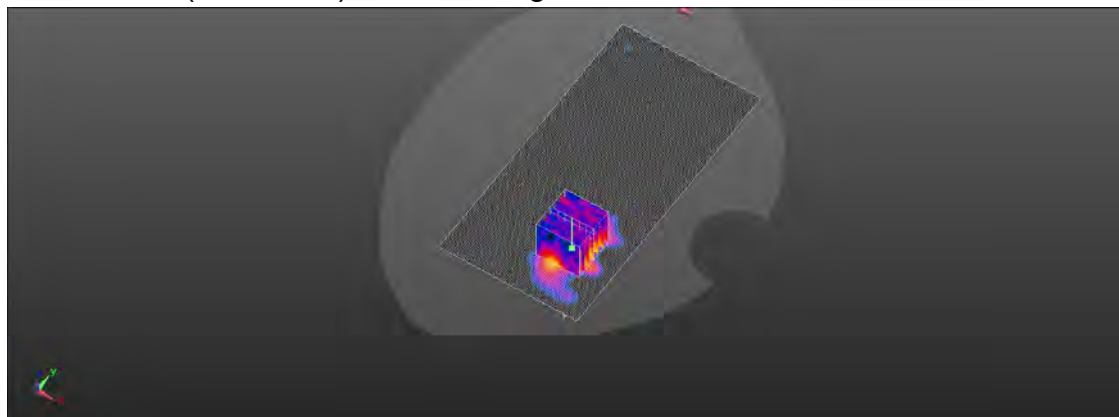
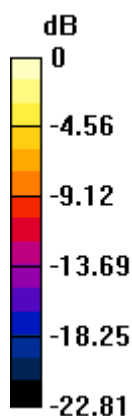
Peak SAR (extrapolated) = 0.064 W/kg

SAR(1 g) = 0.026 W/kg; SAR(10 g) = 0.011 W/kg

Smallest distance from peaks to all points 3 dB below = 7.3 mm

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

Maximum value of SAR (measured) = 0.045 W/kg



0 dB = 0.045 W/kg = -26.9 dBW/kg

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Date: 2020/8/15

Report No. : E5/2020/40007**WLAN 802.11n(20M) 5.2G_Body_Back side_CH 48_5mm**

Communication System: WLAN 5G; Frequency: 5240 MHz; Duty Cycle: 1:0.864

Medium parameters used: $f = 5240$ MHz; $\sigma = 4.651$ S/m; $\epsilon_r = 35.706$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(5, 5, 5); Calibrated: 2020/2/27
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2020/3/17
- Phantom: SAM
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (111x191x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.825 W/kg

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

Reference Value = 3.014 V/m; Power Drift = 0.02 dB

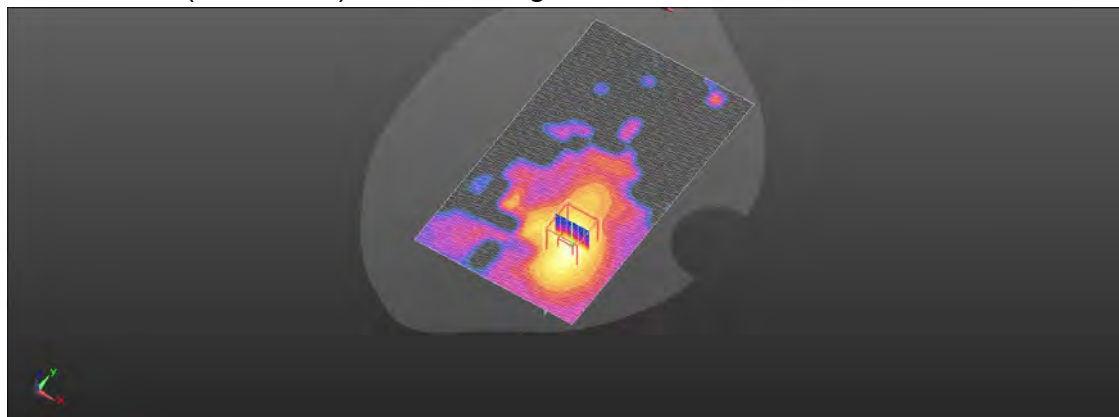
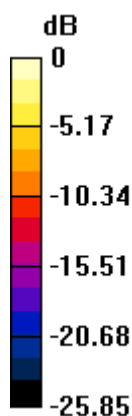
Peak SAR (extrapolated) = 1.98 W/kg

SAR(1 g) = 0.480 W/kg; SAR(10 g) = 0.159 W/kg

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

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

Maximum value of SAR (measured) = 0.916 W/kg



0 dB = 0.916 W/kg = -0.38 dBW/kg

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Date: 2020/8/15

Report No. : E5/2020/40007

WLAN 802.11n(20M) 5.3G_Body_Back side_CH 52_5mm

Communication System: WLAN 5G; Frequency: 5260 MHz; Duty Cycle: 1:0.864

Medium parameters used: $f = 5260 \text{ MHz}$; $\sigma = 4.67 \text{ S/m}$; $\epsilon_r = 35.651$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.5°C ; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(5, 5, 5); Calibrated: 2020/2/27
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2020/3/17
- Phantom: SAM
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (101x191x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 0.607 W/kg

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

Reference Value = 2.468 V/m ; Power Drift = -0.03 dB

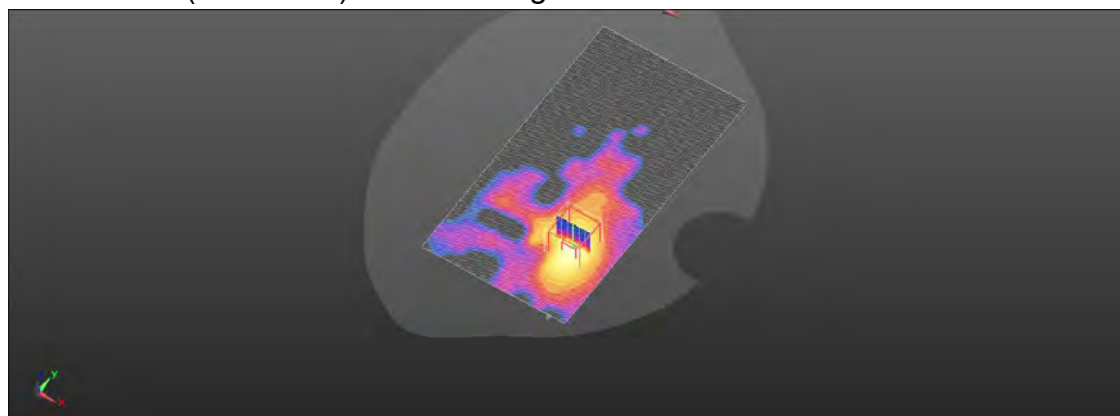
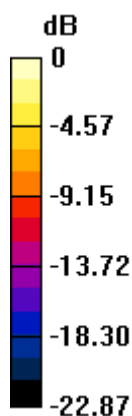
Peak SAR (extrapolated) = 1.31 W/kg

SAR(1 g) = 0.311 W/kg ; SAR(10 g) = 0.100 W/kg

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

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

Maximum value of SAR (measured) = 0.627 W/kg



0 dB = 0.627 W/kg = -2.03 dBW/kg

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Date: 2020/8/16

Report No. : E5/2020/40007**WLAN 802.11n(20M) 5.6G_Body_Back side_CH 140_5mm**

Communication System: WLAN 5G; Frequency: 5700 MHz; Duty Cycle: 1:0.864

Medium parameters used: $f = 5700$ MHz; $\sigma = 5.114$ S/m; $\epsilon_r = 35.149$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(4.7, 4.7, 4.7); Calibrated: 2020/2/27
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2020/3/17
- Phantom: SAM
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (101x191x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.497 W/kg

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

Reference Value = 0.6900 V/m; Power Drift = 0.01 dB

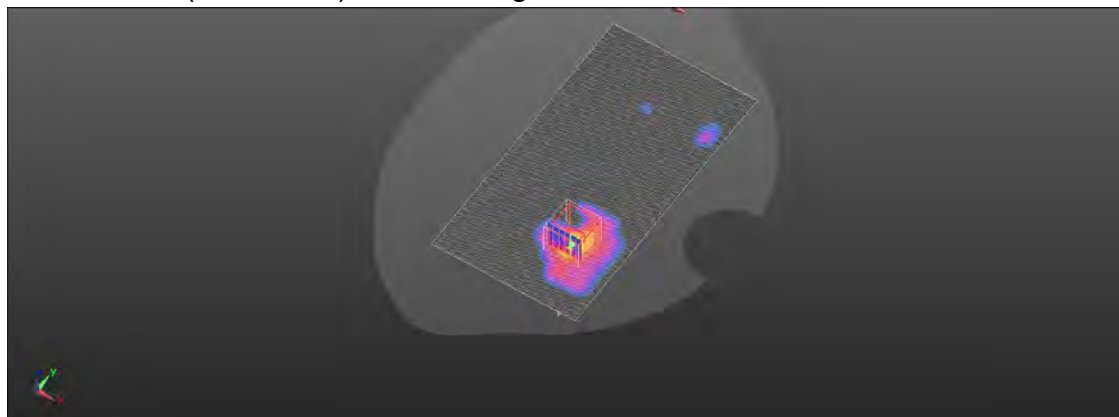
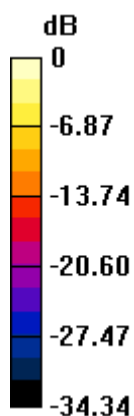
Peak SAR (extrapolated) = 3.50 W/kg

SAR(1 g) = 0.227 W/kg; SAR(10 g) = 0.064 W/kg

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

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

Maximum value of SAR (measured) = 3.50 W/kg



0 dB = 3.50 W/kg = 5.43 dBW/kg

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Date: 2020/8/16

Report No. : E5/2020/40007**WLAN 802.11a 5.8G_Body_Back side_CH 149_5mm**

Communication System: WLAN 5G; Frequency: 5745 MHz; Duty Cycle: 1:0.872

Medium parameters used: $f = 5745$ MHz; $\sigma = 5.164$ S/m; $\epsilon_r = 35.126$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(4.75, 4.75, 4.75); Calibrated: 2020/2/27
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2020/3/17
- Phantom: SAM
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (101x191x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.552 W/kg

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

Reference Value = 0.4450 V/m; Power Drift = 0.07 dB

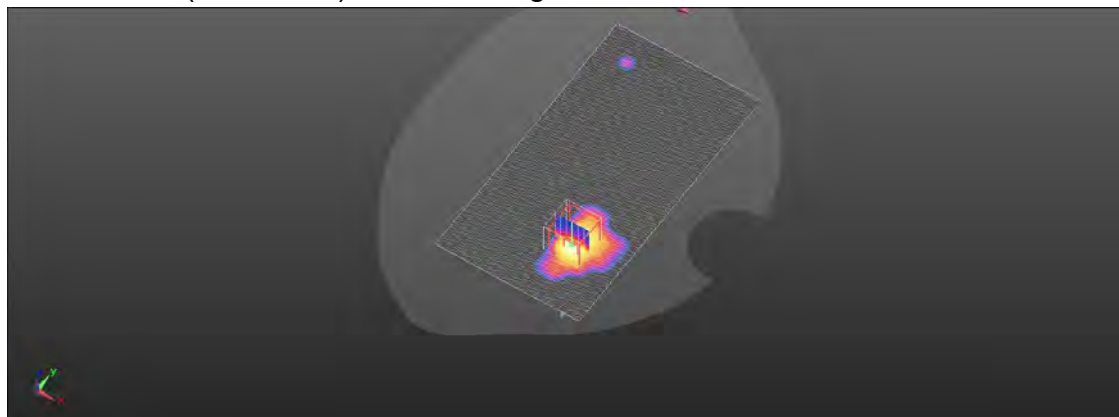
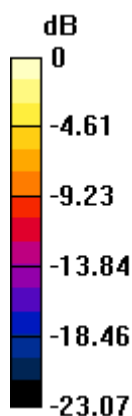
Peak SAR (extrapolated) = 1.04 W/kg

SAR(1 g) = 0.245 W/kg; SAR(10 g) = 0.067 W/kg

Smallest distance from peaks to all points 3 dB below = 7.7 mm

Ratio of SAR at M2 to SAR at M1 = 49.1%

Maximum value of SAR (measured) = 0.533 W/kg



0 dB = 0.533 W/kg = -2.73 dBW/kg

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6. SAR System Performance Verification

Date: 2020/8/9

Report No. : E5/2020/40007

Dipole 750 MHz_SN:1015

Communication System: CW; Frequency: 750 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.906 \text{ S/m}$; $\epsilon_r = 42.319$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 21.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(9.72, 9.72, 9.72); Calibrated: 2020/2/27
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2020/3/17
- Phantom: SAM
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (41x121x1): Interpolated grid: $dx=15 \text{ mm}$, $dy=15 \text{ mm}$

Maximum value of SAR (interpolated) = 2.79 W/kg

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

Reference Value = 53.26 V/m; Power Drift = 0.04 dB

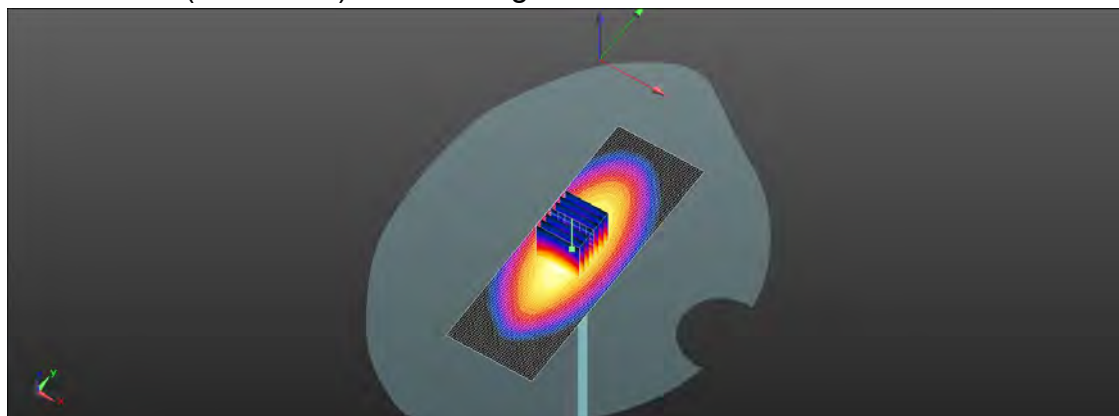
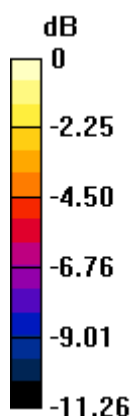
Peak SAR (extrapolated) = 3.37 W/kg

SAR(1 g) = 2.16 W/kg; SAR(10 g) = 1.39 W/kg

Smallest distance from peaks to all points 3 dB below = 12.5 mm

Ratio of SAR at M2 to SAR at M1 = 64.7%

Maximum value of SAR (measured) = 2.82 W/kg



0 dB = 2.82 W/kg = 4.51 dBW/kg

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Date: 2020/8/10

Report No. : E5/2020/40007**Dipole 835 MHz_SN: 4d063**

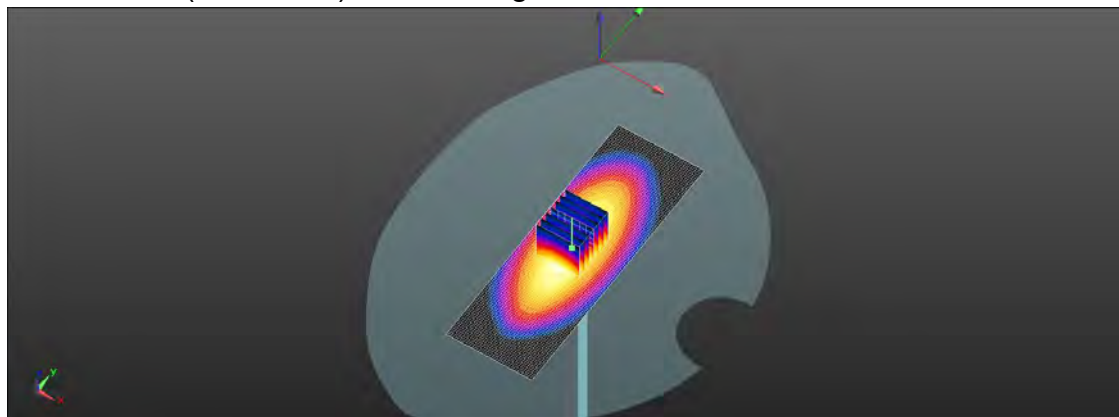
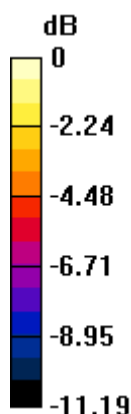
Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.914 \text{ S/m}$; $\epsilon_r = 41.894$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.2°C ; Liquid temperature: 21.8°C **DASY5 Configuration:**

- Probe: EX3DV4 - SN3938; ConvF(9.48, 9.48, 9.48); Calibrated: 2020/2/27
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2020/3/17
- Phantom: SAM
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (41x121x1): Interpolated grid: $dx=15 \text{ mm}$, $dy=15 \text{ mm}$ Maximum value of SAR (interpolated) = 3.06 W/kg **Zoom Scan (7x7x7)/Cube 0:** Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 57.28 V/m ; Power Drift = -0.02 dB Peak SAR (extrapolated) = 3.65 W/kg **SAR(1 g) = 2.42 W/kg ; SAR(10 g) = 1.56 W/kg** Smallest distance from peaks to all points 3 dB below = 12.7 mm Ratio of SAR at M2 to SAR at M1 = 68.2% Maximum value of SAR (measured) = 3.09 W/kg  $0 \text{ dB} = 3.09 \text{ W/kg} = 4.90 \text{ dBW/kg}$

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Date: 2020/8/11

Report No. : E5/2020/40007**Dipole 835 MHz_SN: 4d063**

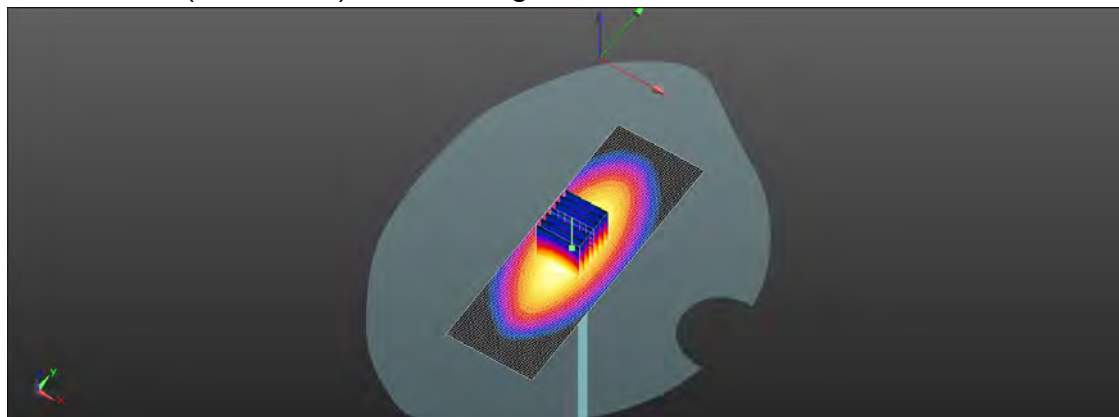
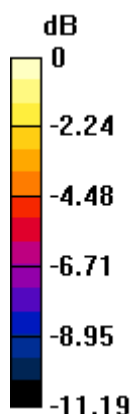
Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.913 \text{ S/m}$; $\epsilon_r = 41.884$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.2°C ; Liquid temperature: 21.9°C **DASY5 Configuration:**

- Probe: EX3DV4 - SN3938; ConvF(9.48, 9.48, 9.48); Calibrated: 2020/2/27
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2020/3/17
- Phantom: SAM
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (41x121x1): Interpolated grid: $dx=15 \text{ mm}$, $dy=15 \text{ mm}$ Maximum value of SAR (interpolated) = 3.11 W/kg **Zoom Scan (7x7x7)/Cube 0:** Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$ Reference Value = 55.31 V/m ; Power Drift = -0.04 dB Peak SAR (extrapolated) = 3.69 W/kg **SAR(1 g) = 2.44 W/kg ; SAR(10 g) = 1.57 W/kg** Smallest distance from peaks to all points 3 dB below = 12.4 mm Ratio of SAR at M2 to SAR at M1 = 65.9% Maximum value of SAR (measured) = 3.11 W/kg  $0 \text{ dB} = 3.11 \text{ W/kg} = 4.99 \text{ dBW/kg}$

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Date: 2020/8/12

Report No. : E5/2020/40007**Dipole 1750 MHz_SN:1008**

Communication System: CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1750$ MHz; $\sigma = 1.366$ S/m; $\epsilon_r = 40.159$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(8.31, 8.31, 8.31); Calibrated: 2020/2/27
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2020/3/17
- Phantom: SAM
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

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

Maximum value of SAR (interpolated) = 14.2 W/kg

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

Reference Value = 99.57 V/m; Power Drift = -0.04 dB

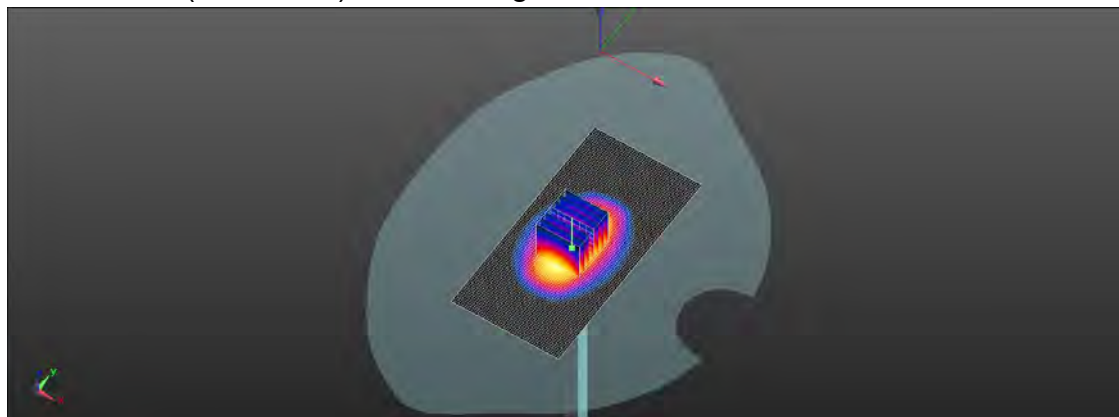
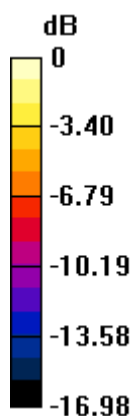
Peak SAR (extrapolated) = 17.5 W/kg

SAR(1 g) = 9.24 W/kg; SAR(10 g) = 4.85 W/kg

Smallest distance from peaks to all points 3 dB below = 10.4 mm

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

Maximum value of SAR (measured) = 13.6 W/kg



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

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Date: 2020/8/13

Report No. : E5/2020/40007**Dipole 1900 MHz_SN: 5d173**

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.397$ S/m; $\epsilon_r = 40.068$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(8.07, 8.07, 8.07); Calibrated: 2020/2/27
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2020/3/17
- Phantom: SAM
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (41x81x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 17.9 W/kg

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

Reference Value = 88.19 V/m; Power Drift = -0.01 dB

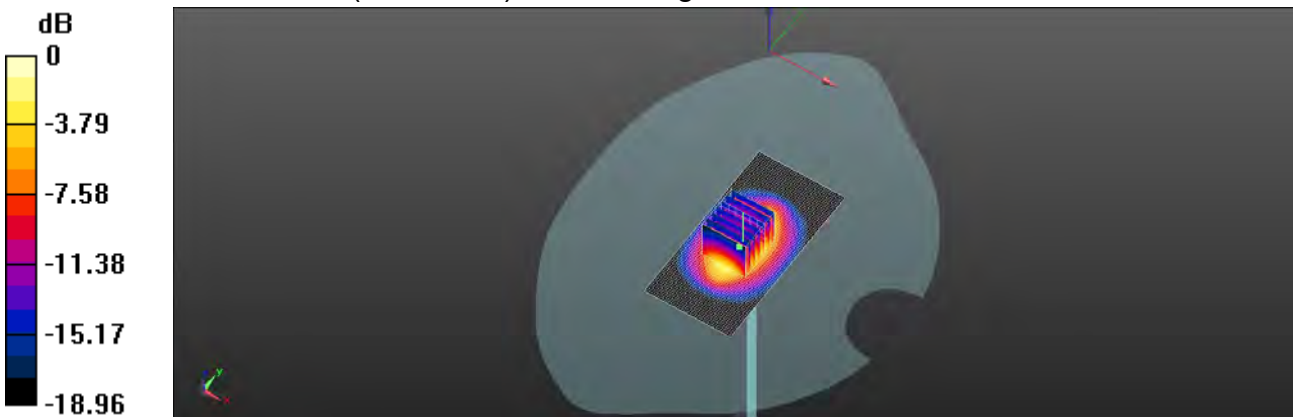
Peak SAR (extrapolated) = 23.0 W/kg

SAR(1 g) = 9.86 W/kg; SAR(10 g) = 5.08 W/kg

Smallest distance from peaks to all points 3 dB below = 10.1 mm

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

Maximum value of SAR (measured) = 17.7 W/kg



0 dB = 17.7 W/kg = 12.47 dBW/kg

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Date: 2020/8/27

Report No. : E5/2020/40007**Dipole 1900 MHz_SN: 5d173**

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.395$ S/m; $\epsilon_r = 40.064$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(8.07, 8.07, 8.07); Calibrated: 2020/2/27
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2020/3/17
- Phantom: SAM
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (41x81x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 17.5 W/kg

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

Reference Value = 79.93 V/m; Power Drift = -0.03 dB

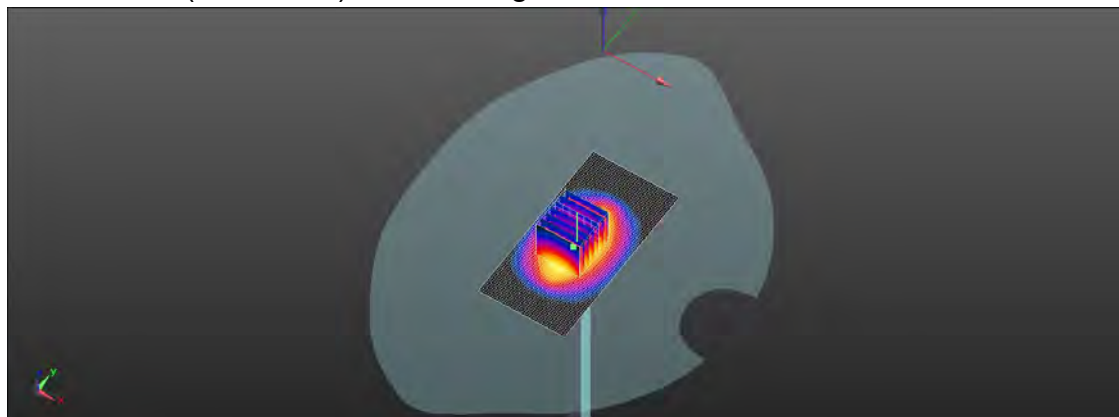
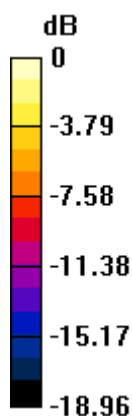
Peak SAR (extrapolated) = 22.4 W/kg

SAR(1 g) = 9.79 W/kg; SAR(10 g) = 5.05 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 56.4%

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



0 dB = 17.3 W/kg = 12.01 dBW/kg

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Date: 2020/8/14

Report No. : E5/2020/40007**Dipole 2450 MHz_SN:727**

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

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.79$ S/m; $\epsilon_r = 38.959$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(7.59, 7.59, 7.59); Calibrated: 2020/2/27
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2020/3/17
- Phantom: SAM
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

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

Maximum value of SAR (interpolated) = 30.0 W/kg

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

Reference Value = 94.05 V/m; Power Drift = -0.05 dB

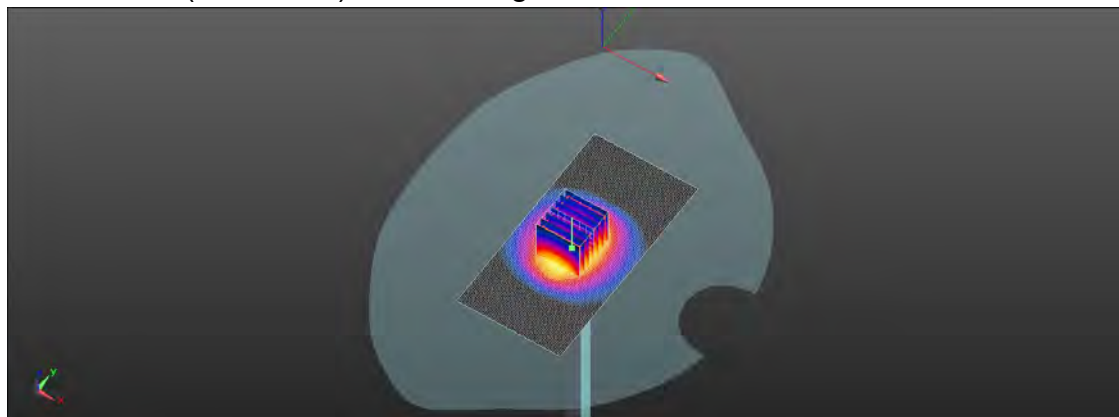
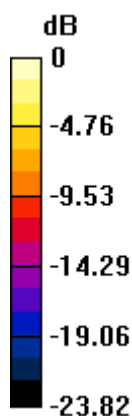
Peak SAR (extrapolated) = 40.3 W/kg

SAR(1 g) = 13.6 W/kg; SAR(10 g) = 6.35 W/kg

Smallest distance from peaks to all points 3 dB below = 9.6 mm

Ratio of SAR at M2 to SAR at M1 = 53.8%

Maximum value of SAR (measured) = 28.9 W/kg



0 dB = 28.9 W/kg = 14.61 dBW/kg

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t (886-2) 2299-3279

f (886-2) 2298-0488

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Date: 2020/8/14

Report No. : E5/2020/40007**Dipole 2600 MHz_SN:1005**

Communication System: CW; Frequency: 2600 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2600$ MHz; $\sigma = 1.953$ S/m; $\epsilon_r = 38.763$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(7.44, 7.44, 7.44); Calibrated: 2020/2/27
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2020/3/17
- Phantom: SAM
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

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

Maximum value of SAR (interpolated) = 29.5 W/kg

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

Reference Value = 91.22 V/m; Power Drift = -0.06 dB

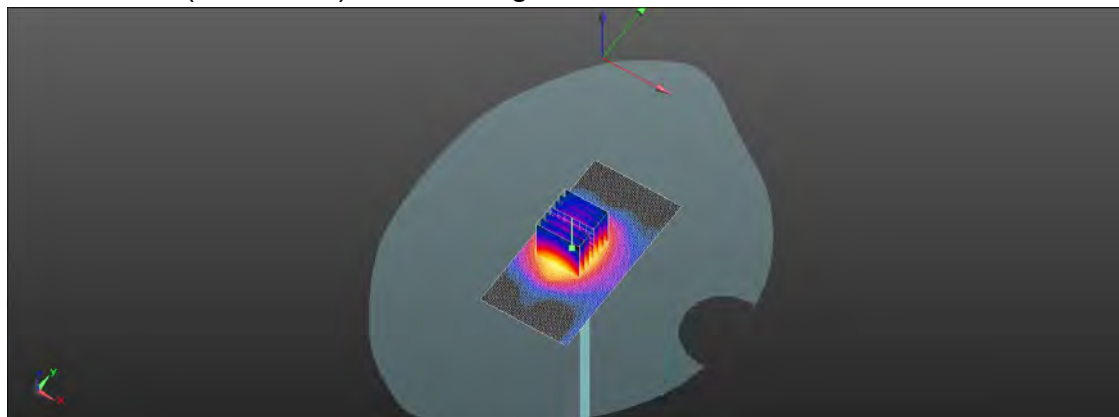
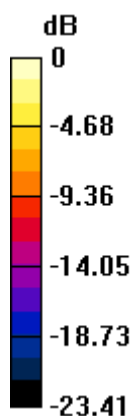
Peak SAR (extrapolated) = 40.7 W/kg

SAR(1 g) = 14.9 W/kg; SAR(10 g) = 6.36 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 53.3%

Maximum value of SAR (measured) = 28.5 W/kg



0 dB = 28.5 W/kg = 14.55 dBW/kg

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t (886-2) 2299-3279

f (886-2) 2298-0488

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Date: 2020/8/15

Report No. : E5/2020/40007**Dipole 5200 MHz_SN:1023**

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

Medium parameters used: $f = 5200$ MHz; $\sigma = 4.608$ S/m; $\epsilon_r = 35.737$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(5, 5, 5); Calibrated: 2020/2/27
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2020/3/17
- Phantom: SAM
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (71x91x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 17.9 W/kg

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

Reference Value = 56.91 V/m; Power Drift = -0.01 dB

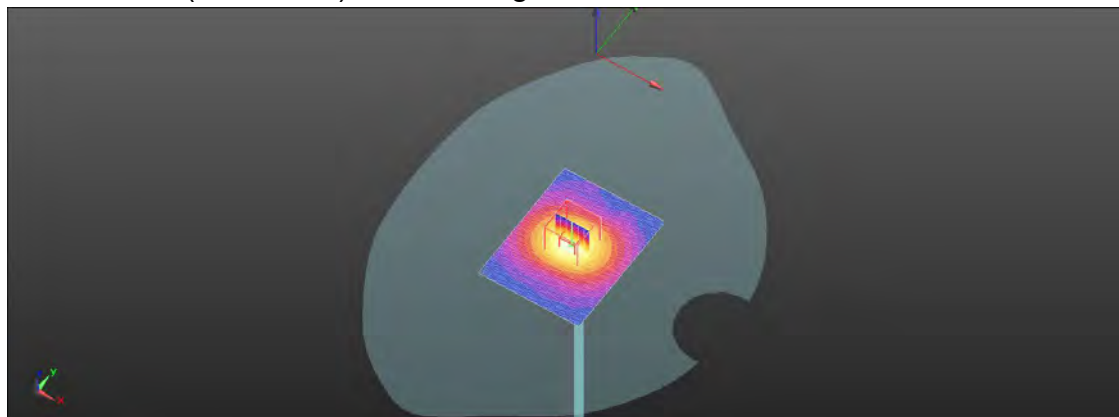
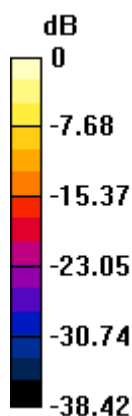
Peak SAR (extrapolated) = 34.0 W/kg

SAR(1 g) = 8.09 W/kg; SAR(10 g) = 2.29 W/kg

Smallest distance from peaks to all points 3 dB below = 10.5 mm

Ratio of SAR at M2 to SAR at M1 = 57.3%

Maximum value of SAR (measured) = 17.7 W/kg



0 dB = 17.7 W/kg = 12.48 dBW/kg

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t (886-2) 2299-3279

f (886-2) 2298-0488

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Date: 2020/8/15

Report No. : E5/2020/40007**Dipole 5300 MHz_SN:1023**

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

Medium parameters used: $f = 5300$ MHz; $\sigma = 4.71$ S/m; $\epsilon_r = 35.613$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 21.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(5, 5, 5); Calibrated: 2020/2/27
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2020/3/17
- Phantom: SAM
- DASY52 52.8.8(1222); SEMCAD X 14.6.13(7474)

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

Maximum value of SAR (interpolated) = 16.9 W/kg

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

Reference Value = 62.43 V/m; Power Drift = 0.01 dB

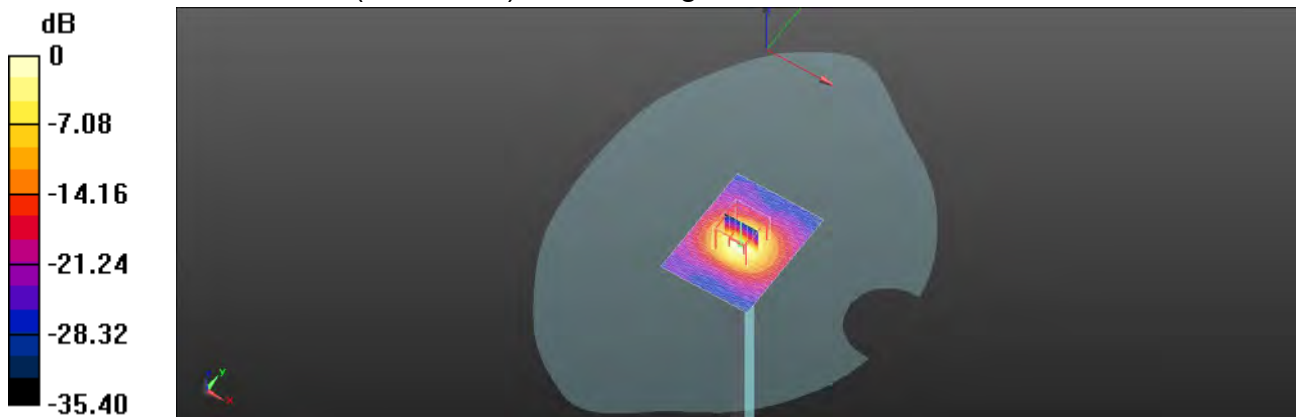
Peak SAR (extrapolated) = 35.8 W/kg

SAR(1 g) = 8.34 W/kg; SAR(10 g) = 2.37 W/kg

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

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

Maximum value of SAR (measured) = 17.2 W/kg



0 dB = 17.2 W/kg = 12.35 dBW/kg

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Date: 2020/8/16

Report No. : E5/2020/40007**Dipole 5600 MHz_SN:1023**

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

Medium parameters used: $f = 5600$ MHz; $\sigma = 5.015$ S/m; $\epsilon_r = 35.266$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(4.7, 4.7, 4.7); Calibrated: 2020/2/27
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2020/3/17
- Phantom: SAM
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (61x71x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 17.9 W/kg

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

Reference Value = 61.81 V/m; Power Drift = -0.04 dB

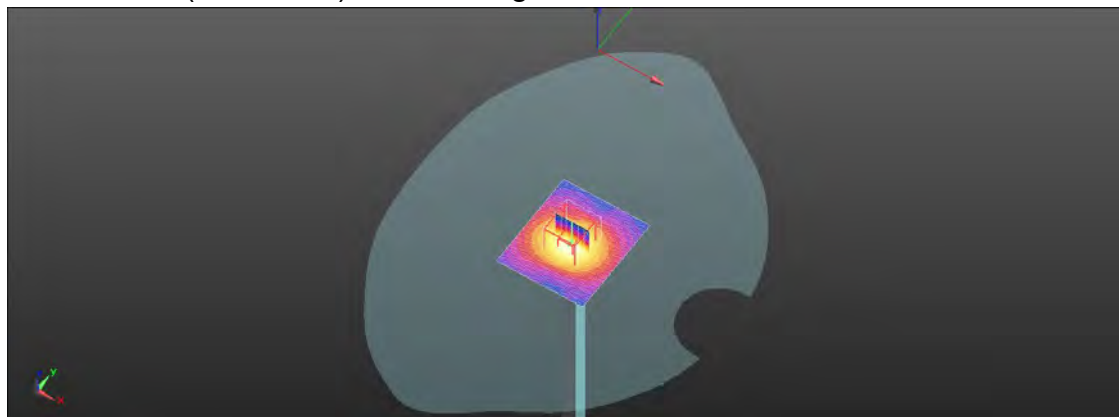
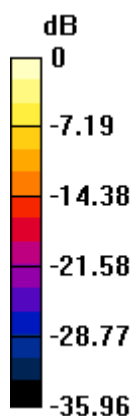
Peak SAR (extrapolated) = 37.4 W/kg

SAR(1 g) = 8.31 W/kg; SAR(10 g) = 2.38 W/kg

Smallest distance from peaks to all points 3 dB below = 10.9 mm

Ratio of SAR at M2 to SAR at M1 = 59.5%

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



0 dB = 17.3 W/kg = 12.39 dBW/kg

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f (886-2) 2298-0488

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Date: 2020/8/16

Report No. : E5/2020/40007**Dipole 5800 MHz_SN:1023**

Communication System: CW; Frequency: 5800 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5800$ MHz; $\sigma = 5.216$ S/m; $\epsilon_r = 35.056$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN3938; ConvF(4.75, 4.75, 4.75); Calibrated: 2020/2/27
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2020/3/17
- Phantom: SAM
- DASY52 52.10.3(1513); SEMCAD X 14.6.13(7474)

Area Scan (71x91x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 17.9 W/kg

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

Reference Value = 59.18 V/m; Power Drift = -0.06 dB

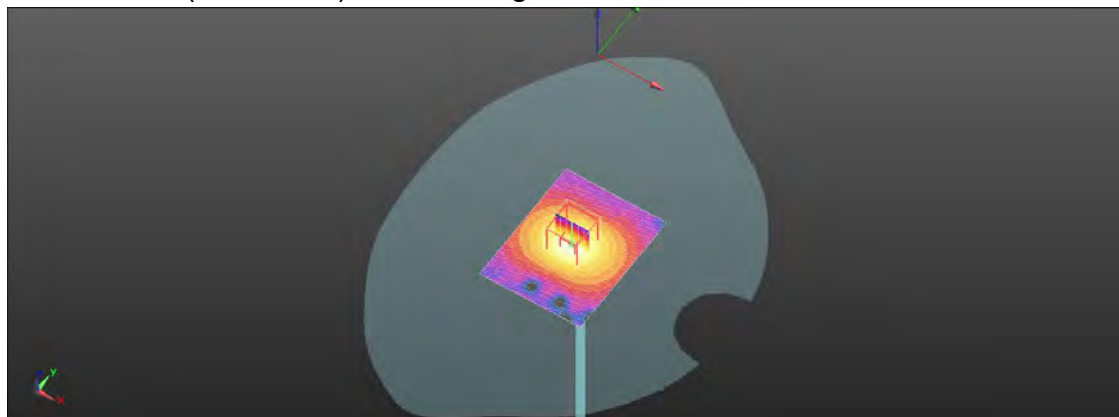
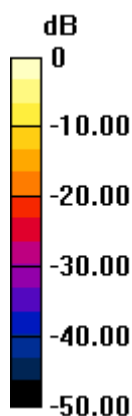
Peak SAR (extrapolated) = 38.5 W/kg

SAR(1 g) = 8.23 W/kg; SAR(10 g) = 2.32 W/kg

Smallest distance from peaks to all points 3 dB below = 10.1 mm

Ratio of SAR at M2 to SAR at M1 = 50.7%

Maximum value of SAR (measured) = 17.6 W/kg



0 dB = 17.6 W/kg = 12.46 dBW/kg

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f (886-2) 2298-0488

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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	Probabilit y	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	2.90%	R	$\sqrt{3}$	1.732	1	1	1.67%	1.67%	∞
Post-processing	1.00%	R	$\sqrt{3}$	1.732	1	1	0.58%	0.58%	∞
Max SAR Eval	1.00%	R	$\sqrt{3}$	1.732	1	1	0.58%	0.58%	∞
Test Sample related									
Test sample positioning	2.90%	N	1	1	1	1	2.90%	2.90%	M-1
Device Holder Uncertainty	3.60%	N	1	1	1	1	3.60%	3.60%	M-1
Drift of output power	5.00%	R	$\sqrt{3}$	1.732	1	1	2.89%	2.89%	∞
Phantom and Setup									
Phantom Uncertainty	4.00%	R	$\sqrt{3}$	1.732	1	1	2.31%	2.31%	∞
Liquid permittivity (mea.)	0.75%	N	1	1	0.64	0.43	0.48%	0.32%	M
Liquid Conductivity (mea.)	1.04%	N	1	1	0.6	0.49	0.62%	0.51%	M
Combined standard uncertainty		RSS					11.74%	11.72%	
Expant uncertainty (95% confidence)							23.48%	23.44%	

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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	Probabilit y	Div	Div Value	ci (1g)	ci (10g)	Standard uncertainty	Standard uncertainty	vi, or Veff
Measurement system									
Probe calibration	6.00%	N	1	1	1	1	6.00%	6.00%	∞
<i>Isotropy, Axial</i>	3.50%	R	$\sqrt{3}$	1.732	1	1	2.02%	2.02%	∞
<i>Isotropy, Hemispherical</i>	9.60%	R	$\sqrt{3}$	1.732	1	1	5.54%	5.54%	∞
Modulation Response	2.40%	R	$\sqrt{3}$	1.732	1	1	1.40%	1.40%	∞
Boundary Effect	1.00%	R	$\sqrt{3}$	1.732	1	1	0.58%	0.58%	∞
Linearity	4.70%	R	$\sqrt{3}$	1.732	1	1	2.71%	2.71%	∞
Detection Limits	1.00%	R	$\sqrt{3}$	1.732	1	1	0.58%	0.58%	∞
Readout Electronics	0.30%	N	1	1	1	1	0.30%	0.30%	∞
Response time	0.80%	R	$\sqrt{3}$	1.732	1	1	0.46%	0.46%	∞
Integration Time	2.60%	R	$\sqrt{3}$	1.732	1	1	1.50%	1.50%	∞
Measurement drift (class A evaluation)	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	2.90%	R	$\sqrt{3}$	1.732	1	1	1.67%	1.67%	∞
Post-processing	1.00%	R	$\sqrt{3}$	1.732	1	1	0.58%	0.58%	∞
Max SAR Eval	1.00%	R	$\sqrt{3}$	1.732	1	1	0.58%	0.58%	∞
Test Sample related									
Test sample positioning	2.90%	N	1	1	1	1	2.90%	2.90%	M-1
Device Holder Uncertainty	3.60%	N	1	1	1	1	3.60%	3.60%	M-1
Drift of output power	5.00%	R	$\sqrt{3}$	1.732	1	1	2.89%	2.89%	∞
Phantom and Setup									
Phantom Uncertainty	4.00%	R	$\sqrt{3}$	1.732	1	1	2.31%	2.31%	∞
Liquid permittivity (mea.)	0.95%	N	1	1	0.64	0.43	0.61%	0.41%	M
Liquid Conductivity (mea.)	1.56%	N	1	1	0.6	0.49	0.94%	0.76%	M
Combined standard uncertainty		RSS					11.47%	11.44%	
Expant uncertainty (95% confidence)							22.94%	22.88%	

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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SGS Taiwan Ltd.

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

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.sgs.com.tw

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Appendixes

Refer to separated files for the following appendixes.

E5202040007 SAR_Appendix A Photographs

E5202040007 SAR_Appendix B DAE & Probe Cal. Certificate

E5202040007 SAR_Appendix C Phantom Description & Dipole Cal. Certificate

- End of report -

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