

Report No. : EN/2021/70008 Page: 1 of 142

SAR TEST REPORT



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

Equipment Under Test	Notebook Computer
Brand Name	acer
Model No.	N20Q7
Company Name	Acer Incorporated
Company Address	8F., No. 88, Sec. 1, Xintai 5th Rd., Xizhi, New Taipei City
	22181, Taiwan (R.O.C)
Standards	IEEE/ANSI C95.1-1992, IEEE 1528-2013
FCC ID	HLZQSIP7180
Date of Receipt	Jul. 26, 2021
Date of Test(s)	Aug. 01, 2021 ~ Aug. 10, 2021
Date of Issue	Sep. 02, 2021
In the configuration tested, the E	UT 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	Supervisor / Afu Chen	Asst. Manager / John Yeh
Ruby Ou	abr Chen	John Teh

Date: Sep. 02, 2021

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Revision History

Report Number	Revision	Description	Issue Date
EN/2021/70008	Rev.00	Initial creation of document	Sep. 02, 2021

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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 KDB616217D04v01r02 KDB865664D01v01r04 KDB865664D02v01r02 KDB941225D01v03r01 KDB941225D05v02r05 KDB941225D05Av01r02 KDB447498D01v06 KDB248227D01v02r02

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1. General Information

1.1 Testing Laboratory

SGS Taiwan Ltd. Central RF Lab					
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11493, Taiwan.					
FCC Designation	TW0029				
Number	100023				
Tel	+886-2-2299-3279				
Fax	+886-2-2298-0488				
Internet	http://www.tw.sgs.com/				

1.2 Details of Applicant

Company Name	Acer Incorporated
Company Address	8F., No. 88, Sec. 1, Xintai 5th Rd., Xizhi, New Taipei City
	22181, Taiwan (R.O.C)

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1.3 Description of EUT

Equipment Under Test	Notebook Computer						
Brand Name	acer						
Model No.	N20Q7						
FCC ID	HLZQSIP7180						
Mode of Operation	⊠WCDMA ⊠HSDPA ⊠HSUPA ⊠LTE FDD ⊠LTE TDD ⊠WLAN802.11 a/b/g/n(20M/40M)/ac(20M/40M/80M) ⊠Bluetooth						
	WCDMA		100%				
	LTE FDD		100%				
	LTE TDD power class 3	6	3.3%				
Duty Cycle	LTE TDD power class 2	43.3%					
	WLAN802.11 a/b/g/n/ac(20M/40M/80M)			ge 54			
	Bluetooth	29.1%					
	WCDMA Band II	1850	_	1910			
	WCDMA Band V	824	_	849			
	LTE FDD Band 2	1850	_	1910			
	LTE FDD Band 4	1710	_	1755			
	LTE FDD Band 5	824	_	849			
TX Frequency Range	LTE FDD Band 7	2500	_	2570			
(MHz)	LTE FDD Band 12	699	_	716			
	LTE FDD Band 13	777	_	787			
	LTE FDD Band 14	788	_	798			
	LTE FDD Band 17	704	_	716			
	LTE FDD Band 25	1850	_	1915			
	LTE FDD Band 26	814	_	849			
	LTE FDD Band 30	2305	_	2315			

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	LTE TDD Band 38	2570	_	2620
	LTE TDD Band 41 Power Class 2/3	2496	_	2690
	LTE FDD Band 66	1710	_	1780
	LTE FDD Band 71	663	_	698
	WLAN802.11 b/g/n/ac(20M)	2412	_	2472
	WLAN802.11 n(40M)	2422	_	2462
	WLAN802.11 a/n(20M)/ac(20M) 5.2G	5180	_	5240
	WLAN802.11 n(40M)/ac(40M) 5.2G	5190	_	5230
	WLAN802.11 ac(80M) 5.2G		5210	
TX Frequency Range (MHz)	WLAN802.11 a/n(20M)/ac(20M) 5.3G	5260	_	5320
(((((((((((((((((((((((((((((((((((((((WLAN802.11 n(40M)/ac(40M) 5.3G	5270	_	5310
	WLAN802.11 ac(80M) 5.3G		5290	
	WLAN802.11 a/n/ac(20M) 5.6G	5500	_	5720
	WLAN802.11 n/ac(40M) 5.6G	5510	_	5710
	WLAN802.11 ac(80M) 5.6G	5530	_	5690
	WLAN802.11 a/n(20M)/ac(20M) 5.8G	5745	_	5825
	WLAN802.11 n(40M)/ac(40M) 5.8G	5755	_	5795
	WLAN802.11 ac(80M) 5.8G		5775	
	Bluetooth	2402	_	2480
	WCDMA Band II	9262	_	9538
	WCDMA Band V	4132	_	4233
	LTE FDD Band 2	18607	_	19193
	LTE FDD Band 4	19957	_	20393
Channel Number	LTE FDD Band 5	20407	_	20643
(ARFCN)	LTE FDD Band 7	20775	_	21425
	LTE FDD Band 12	23017	_	23173
	LTE FDD Band 13	23205	_	23255
	LTE FDD Band 14	23305	_	23355
	LTE FDD Band 17	23755	_	23825
	LTE FDD Band 25	26047	_	26683

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	LTE FDD Band 26	26697	_	27033
	LTE FDD Band 30	27685	_	27735
	LTE TDD Band 38	37775	_	38225
	LTE TDD Band 41 Power Class 2/3	39675	_	41565
	LTE FDD Band 66	131979	_	132665
	LTE FDD Band 71	133147	—	133447
	WLAN802.11 b/g/n/ac(20M)	1	—	13
	WLAN802.11 n(40M)	3	_	11
	WLAN802.11 a/n(20M)/ac(20M) 5.2G	36	_	48
Channel Number	WLAN802.11 n(40M)/ac(40M) 5.2G	38	_	46
(ARFCN)	WLAN802.11 ac(80M) 5.2G		42	
	WLAN802.11 a/n(20M)/ac(20M) 5.3G	52	_	64
	WLAN802.11 n(40M)/ac(40M) 5.3G	54	_	62
	WLAN802.11 ac(80M) 5.3G		58	
	WLAN802.11 a/n/ac(20M) 5.6G	100	_	144
	WLAN802.11 n/ac(40M) 5.6G	102	_	142
	WLAN802.11 ac(80M) 5.6G	106	_	138
	WLAN802.11 a/n(20M)/ac(20M) 5.8G	149	_	165
	WLAN802.11 n(40M)/ac(40M) 5.8G	151	_	159
	WLAN802.11 ac(80M) 5.8G		155	
	Bluetooth	0	_	78

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Notebook mode

Max. SAR (1g) (Unit: W/Kg)					
Band	Measured	Reported	Channel	Position	
WCDMA Band II	0.66	0.93	9538	Bottom surface	
WCDMA Band V	0.27	0.34	4183	Bottom surface	
LTE FDD Band 2	0.55	0.82	19100	Bottom surface	
LTE FDD Band 4	0.33	0.49	20300	Bottom surface	
LTE FDD Band 5	0.32	0.41	20450	Bottom surface	
LTE FDD Band 7	0.14	0.20	21350	Bottom surface	
LTE FDD Band 12	0.44	0.63	23060	Bottom surface	
LTE FDD Band 13	0.27	0.33	23230	Bottom surface	
LTE FDD Band 14	0.44	0.58	23330	Bottom surface	
LTE FDD Band 17	0.48	0.68	23790	Bottom surface	
LTE FDD Band 25	0.59	0.87	26590	Bottom surface	
LTE FDD Band 26	0.33	0.44	26765	Bottom surface	
LTE FDD Band 30	0.22	0.30	27710	Bottom surface	
LTE TDD Band 38	0.11	0.15	38150	Bottom surface	
LTE TDD Band 41	0.11	0.16	40620	Bottom surface	
LTE TDD Band 41(HPUE)	0.14	0.21	40620	Bottom surface	
LTE FDD Band 66	0.49	0.68	132572	Bottom surface	

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Notebook mode

	Max. SAR (1g) (Unit: W/Kg)							
Antenna	Band	Measured	Reported	Channel	Position			
	WLAN 802.11b	0.00	0.00	10	Bottom surface			
	WLAN 802.11n(40M) 5.2G	0.00	0.00	46	Bottom surface			
Aux	WLAN 802.11n(40M) 5.3G	0.01	0.01	54	Bottom surface			
	WLAN 802.11ac(80M) 5.6G	0.01	0.01	138	Bottom surface			
	WLAN 802.11ac(80M) 5.8G	0.01	0.01	155	Bottom surface			
	WLAN 802.11b	0.01	0.01	10	Bottom surface			
	Bluetooth(GFSK)	0.00	0.01	39	Bottom surface			
Main	WLAN 802.11n(40M) 5.2G	0.00	0.00	46	Bottom surface			
Iviali	WLAN 802.11n(40M) 5.3G	0.01	0.01	54	Bottom surface			
	WLAN 802.11ac(80M) 5.6G	0.01	0.02	138	Bottom surface			
	WLAN 802.11ac(80M) 5.8G	0.01	0.02	155	Bottom surface			

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WCDMA Band II / Band V - HSDPA / HSUPA conducted power table:

Unit: dBm

Band		WCDMA II		
	TX Channel	9262	9400	9538
Fr	equency (MHz)	1852.4	1880	1907.6
Max. Rated Avg.	Power+Max. Tolerance (dBm)		25.70	
3GPP Rel 99	RMC 12.2Kbps	24.56	24.38	24.21
	HSDPA Subtest-1	23.92	23.81	23.74
3GPP Rel 5	HSDPA Subtest-2	23.78	23.93	23.95
JGFF Rei D	HSDPA Subtest-3	22.83	22.63	23.11
	HSDPA Subtest-4	22.81	22.67	23.09
	HSUPA Subtest-1	23.31	23.21	23.59
	HSUPA Subtest-2	21.39	21.14	21.61
3GPP Rel 6	HSUPA Subtest-3	22.36	22.18	22.59
	HSUPA Subtest-4	21.33	21.17	21.59
	HSUPA Subtest-5	23.40	23.20	23.60

	Band	1	WCDMA \	/
	TX Channel	4132	4183	4233
Fr	equency (MHz)	826.4	836.6	846.6
Max. Rated Avg.	Power+Max. Tolerance (dBm)		25.20	
3GPP Rel 99	RMC 12.2Kbps	24.22	24.16	24.21
	HSDPA Subtest-1	22.83	22.67	23.11
3GPP Rel 5	HSDPA Subtest-2	22.91	22.71	23.15
JOFF Nel J	HSDPA Subtest-3	22.33	22.17	22.62
	HSDPA Subtest-4	22.38	22.20	22.60
	HSUPA Subtest-1	22.91	22.67	23.18
	HSUPA Subtest-2	20.87	20.74	21.09
3GPP Rel 6	HSUPA Subtest-3	21.83	21.76	22.10
	HSUPA Subtest-4	20.90	20.71	21.15
	HSUPA Subtest-5	22.89	22.68	23.12

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Sub-Test for HSDPA

SUB-TEST	β _c	β_d	β _d (SF)	β _c /β _d	β _{HS} (Note1, 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

Sub-Test for HSUPA

SUB-TEST	βc	βd	β₀ (SF)	β _c /β _d	^{βнs} (Note1)	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 _{ed} 1: 47/15 β _{ed} 2: 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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Band 2 / Band 4 / Band 5 / Band 7 / Band 12 / Band 13 / Band 14 / Band 17 / Band 25 / Band 26 / Band 30 / Band 66 / Band 71 power table:

				LTE	Band 2			
BW(Mhz)	Modulation	RB Size	RB Offset	Condu	ucted power	(dBm)	Target	
	Frequence	cy (MHz)		1860	1880	1900	Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
	Char	nnel		18700	18900	19100	, ,	
		1	0	24.03	23.95	23.93	25.70	0
		1	50	23.95	23.93	23.86	25.70	0
		1	99	23.93	23.88	23.87	25.70	0
	QPSK	50	0	22.97	22.92	22.91	24.70	0-1
		50	25	22.96	22.89	22.83	24.70	0-1
		50	50	22.93	22.85	22.90	24.70	0-1
		100	0	22.92	22.87	22.90	24.70	0-1
		1	0	22.95	22.92	22.82	24.70	0-1
		1	50	23.00	22.86	22.84	24.70	0-1
20	16-QAM	1	99	22.92	22.89	22.91	24.70	0-1
20	IO-QAIVI	50 50	0 25	21.99	21.86	21.83 21.83	23.70	0-2
		50 50	25 50	21.95 22.01	21.87 21.93	21.83	23.70 23.70	0-2
		100	50 0	22.01	21.93	21.88	23.70	0-2
		100	0	21.95	21.05	21.87	23.70	0-2
		1	50	21.98	21.93	21.87	23.70	0-2
		1	99	21.98	21.92	21.85	23.70	0-2
	64-QAM	50	99	20.96	20.85	20.90	22.70	0-2
	04-QAM	50	25	20.90	20.83	20.90	22.70	0-3
		50	50	20.94	20.84	20.90	22.70	0-3
		100	0	20.94	20.92	20.85	22.70	0-3
BW(Mhz)	Modulation	RB Size	RB Offset		ucted power			0-0
	Frequenc	cy (MHz)		1857.5	1880	1902.5	Target Power + Max. Toloropoo (dPm)	MPR Allowed per 3GPP(dB)
	Char	nnel		18675	18900	19125	Tolerance (dBm)	
		1	0	23.95	23.89	23.85	25.70	0
		1	36	23.93	23.85	23.90	25.70	0
		1	74	23.98	23.91	23.85	25.70	0
	QPSK	36	0	23.01	22.85	22.86	24.70	0-1
	[36	18	22.93	22.87	22.88	24.70	0-1
		36	37	22.97	22.89	22.86	24.12	0-1
		75	0	22.98	22.89	22.88	24.70	0-1
		1	0	22.93	22.91	22.87	24.70	0-1
		1	36	22.98	22.84	22.84	24.70	0-1
		1	74	22.94	22.87	22.83	24.70	0-1
15	16-QAM	36	0	22.00	21.90	21.82	23.70	0-2
		36	18	21.93	21.89	21.87	23.70	0-2
		36	37	22.00	21.87	21.83	23.70	0-2
	└──	75	0	21.93	21.93	21.85	23.70	0-2
		1	0	21.98	21.90	21.83	23.70	0-2
		1	36	21.95	21.85	21.83	23.70	0-2
		1	74	22.00	21.87	21.91	23.70	0-2
	64-QAM	36	0	20.99	20.92	20.84	22.70	0-3
		36	18	20.96	20.89	20.88	22.70	0-3
		36	37	20.96	20.85	20.91	22.70	0-3
		75	0	20.94	20.84	20.82	22.70	0-3

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				LTE	Band 2			
BW(Mhz)	Modulation	RB Size	RB Offset	Condu	ucted power	(dBm)	Target	
	Frequen	cy (MHz)		1855	1880	1905	Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
	Cha	nnel		18650	18900	19150		
		1	0	23.92	23.86	23.88	25.70	0
		1	25	23.96	23.90	23.82	25.70	0
		1	49	23.94	23.90	23.88	25.70	0
	QPSK	25	0	22.93	22.86	22.83	24.70	0-1
		25	12	23.00	22.86	22.83	24.70	0-1
		25	25	22.99	22.84	22.86	24.70	0-1
		50	0	22.95	22.88	22.86	24.70	0-1
		1	0	23.00	22.85	22.91	24.70	0-1
		1	25	22.98	22.91	22.84	24.70	0-1
		1	49	22.93	22.85	22.84	24.70	0-1
10	16-QAM	25	0	21.96	21.84	21.83	23.70	0-2
		25	12	21.97	21.89	21.86	23.70	0-2
		25	25	22.01	21.87	21.84	23.70	0-2
		50	0	21.99	21.84	21.83	23.70	0-2
		1	0	21.98	21.91	21.89	23.70	0-2
		1	25	21.95	21.92	21.90	23.70	0-2
		1	49	21.94	21.87	21.86	23.70	0-2
	64-QAM	25	0	20.97	20.89	20.89	22.70	0-3
		25	12	20.92	20.92	20.85	22.70	0-3
		25	25	20.97	20.84	20.87	22.70	0-3
		50	0	20.93	20.90	20.87	22.70	0-3
	Frequen	cy (MHz)		1852.5	1880	1907.5	Target Power + Max.	MPR Allowed per
	Cha	nnel		18625	18900	19175	Tolerance (dBm)	3GPP(dB)
		1	0	23.95	23.92	23.84	25.70	0
		1	12	23.92	23.90	23.83	25.70	0
		1	24	24.00	23.89	23.88	25.70	0
	QPSK	12	0	22.94	22.92	22.90	24.70	0-1
		12	6	22.92	22.92	22.89	24.70	0-1
		12	13	22.94	22.87	22.89	24.70	0-1
			1				0.4 = 0	0-1
		25	0	23.00	22.85	22.85	24.70	0-1
		25 1	0	23.00 23.00	22.85 22.86	22.85 22.85	24.70 24.70	0-1
			-					
		1	0	23.00	22.86	22.85	24.70	0-1
5	16-QAM	1 1	0 12	23.00 22.98	22.86 22.86	22.85 22.91	24.70 24.70	0-1 0-1
5	16-QAM	1 1 1	0 12 24	23.00 22.98 22.93	22.86 22.86 22.88	22.85 22.91 22.84	24.70 24.70 24.70	0-1 0-1 0-1
5	16-QAM	1 1 1 12	0 12 24 0	23.00 22.98 22.93 21.98	22.86 22.86 22.88 21.90	22.85 22.91 22.84 21.88	24.70 24.70 24.70 23.70	0-1 0-1 0-1 0-2
5	16-QAM	1 1 1 12 12	0 12 24 0 6	23.00 22.98 22.93 21.98 21.95	22.86 22.86 22.88 21.90 21.92	22.85 22.91 22.84 21.88 21.84	24.70 24.70 24.70 23.70 23.70	0-1 0-1 0-1 0-2 0-2
5	16-QAM	1 1 12 12 12 12	0 12 24 0 6 13	23.00 22.98 22.93 21.98 21.95 22.00	22.86 22.86 22.88 21.90 21.92 21.92	22.85 22.91 22.84 21.88 21.84 21.82	24.70 24.70 24.70 23.70 23.70 23.70 23.70	0-1 0-1 0-2 0-2 0-2 0-2
5	16-QAM	1 1 12 12 12 12 25	0 12 24 0 6 13 0	23.00 22.98 22.93 21.98 21.95 22.00 21.99	22.86 22.86 22.88 21.90 21.92 21.92 21.88	22.85 22.91 22.84 21.88 21.84 21.82 21.82 21.85	24.70 24.70 23.70 23.70 23.70 23.70 23.70 23.70	0-1 0-1 0-2 0-2 0-2 0-2 0-2
5	16-QAM	1 1 12 12 12 12 25 1	0 12 24 0 6 13 0 0	23.00 22.98 22.93 21.98 21.95 22.00 21.99 21.96	22.86 22.86 21.90 21.92 21.92 21.88 21.86	22.85 22.91 22.84 21.88 21.84 21.82 21.82 21.85 21.83	24.70 24.70 23.70 23.70 23.70 23.70 23.70 23.70 23.70	0-1 0-1 0-2 0-2 0-2 0-2 0-2 0-2 0-2
5	16-QAM 64-QAM	1 1 12 12 12 12 25 1 1	0 12 24 0 6 13 0 0 12	23.00 22.98 22.93 21.98 21.95 22.00 21.99 21.96 21.95	22.86 22.88 21.90 21.92 21.92 21.88 21.86 21.90	22.85 22.91 22.84 21.88 21.84 21.82 21.85 21.83 21.91	24.70 24.70 23.70 23.70 23.70 23.70 23.70 23.70 23.70 23.70	0-1 0-1 0-2 0-2 0-2 0-2 0-2 0-2 0-2 0-2 0-2
5		1 1 12 12 12 12 25 1 1 1	0 12 24 0 6 13 0 0 12 24	23.00 22.98 21.98 21.95 22.00 21.99 21.96 21.95 22.00	22.86 22.88 21.90 21.92 21.92 21.88 21.86 21.90 21.89	22.85 22.91 22.84 21.88 21.84 21.82 21.85 21.83 21.91 21.85	24.70 24.70 23.70 23.70 23.70 23.70 23.70 23.70 23.70 23.70 23.70	0-1 0-1 0-2 0-2 0-2 0-2 0-2 0-2 0-2 0-2 0-2 0-2
5		1 1 12 12 12 12 25 1 1 1 1 12	0 12 24 0 6 13 0 0 12 24 0	23.00 22.98 22.93 21.95 22.00 21.99 21.99 21.96 21.95 22.00 20.94	22.86 22.86 22.88 21.90 21.92 21.92 21.88 21.86 21.90 21.89 20.87	22.85 22.91 22.84 21.88 21.84 21.82 21.85 21.83 21.91 21.85 20.88	24.70 24.70 23.70 23.70 23.70 23.70 23.70 23.70 23.70 23.70 23.70 23.70	0-1 0-1 0-2 0-2 0-2 0-2 0-2 0-2 0-2 0-2

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				LTE	Band 2			
BW(Mhz)	Modulation	RB Size	RB Offset	Condu	ucted power	(dBm)	Target	
	Frequen	cy (MHz)		1851.5	1880	1908.5	Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
	Cha	nnel		18615	18900	19185		
		1	0	24.01	23.94	23.84	25.70	0
		1	12	23.87	23.85	23.78	25.70	0
		1	24	23.86	23.83	23.79	25.70	0
	QPSK	12	0	22.91	22.91	22.91	24.70	0-1
		12	6	22.96	22.80	22.75	24.70	0-1
		12	13	22.92	22.78	22.88	24.70	0-1
		25	0	22.88	22.82	22.88	24.70	0-1
		1	0	22.92	22.89	22.82	24.70	0-1
		1	12	22.93	22.83	22.80	24.70	0-1
		1	24	22.91	22.88	22.84	24.70	0-1
3	16-QAM	12	0	21.99	21.83	21.79	23.70	0-2
		12	6	21.93	21.86	21.80	23.70	0-2
		12	13	21.94	21.84	21.85	23.70	0-2
		25	0	21.94	21.83	21.78	23.70	0-2
		1	0	21.94	21.92	21.86	23.70	0-2
		1	12	21.92	21.91	21.80	23.70	0-2
	64-QAM	1	24	21.93	21.83	21.90	23.70	0-2
		12	0	20.92	20.79	20.84	22.70	0-3
		12	6	20.92	20.75	20.85	22.70	0-3
		12	13 0	20.94	20.89	20.86	22.70	0-3
		25	0	20.86	20.77	20.81	22.70	0-3
	Frequen	cy (MHz)		1850.7	1880	1909.3	Target Power + Max.	MPR Allowed per
	Cha	nnel		18607	18900	19193	Tolerance (dBm)	3GPP(dB)
		1	0	23.95	23.86	23.84	25.70	0
		1	12	23.93	23.93	23.82	25.70	0
		1	24	23.85	23.83	23.83	25.70	0
	QPSK	12	0	23.91	23.83	23.84	25.70	0
		12	6	23.90	23.86	23.83	25.70	0
		12	13	23.91	23.78	23.82	25.70	0
		25	0	22.86	22.79	22.90	24.70	0-1
		1	0	22.90	22.92	22.81	24.70	0-1
		1	12	22.96	22.77	22.79	24.70	0-1
		1	24	22.84	22.81	22.89	24.70	0-1
1.4	16-QAM	12	0	22.95	22.81	22.74	24.70	0-1
		12	6	22.93	22.86	22.83	24.70	0-1
		12	13	22.95	22.87	22.82	24.70	0-1
		25	0	21.90	21.81	21.81	23.70	0-2
		1	0	21.97	21.86	21.82	23.70	0-2
		1	12	21.90	21.84	21.79	23.70	0-2
		1	24	21.90	21.82	21.89	23.70	0-2
	64-QAM	12	0	21.92	21.81	21.81	23.70	0-2
		12	6	21.86	21.81	21.81	23.70	0-2
		12	13	22.01	21.86	21.78	23.70	0-2
		25	0	20.92	20.81	20.79	22.70	0-3

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				LTE	Band 4			
BW(Mhz)	Modulation	RB Size	RB Offset	Condu	ucted power	(dBm)	Torget	
	Frequen	cy (MHz)	•	1720	1732.5	1745	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
	Cha	nnel		20050	20175	20300		
		1	0	24.16	24.07	24.01	25.70	0
		1	50	24.08	23.99	23.94	25.70	0
		1	99	24.09	23.98	23.95	25.70	0
	QPSK	50	0	23.08	22.96	22.94	24.70	0-1
		50	25	23.06	23.02	22.92	24.70	0-1
		50	50	23.11	23.01	22.92	24.70	0-1
		100	0	23.07	23.05	22.97	24.70	0-1
		1	0	23.12	22.96	22.92	24.70	0-1
		1	50	23.08	23.05	22.90	24.70	0-1
		1	99	23.06	22.99	22.94	24.70	0-1
20	16-QAM	50	0	22.12	22.03	21.92	23.70	0-2
		50	25	22.09	22.01	21.97	23.70	0-2
		50	50	22.14	21.96	21.97	23.70	0-2
		100	0	22.10	21.99	21.94	23.70	0-2
		1	0	22.12	22.05	21.95	23.70	0-2
		1	50	22.10	21.99	21.91	23.70	0-2
	64-QAM	1	99	22.10	21.98	21.92	23.70	0-2
		50	0	21.08	21.04	20.91	22.70	0-3
		50	25	21.10	21.03	20.95	22.70	0-3
		50	50	21.09	21.04	20.93	22.70	0-3
	ļ	100	0	21.07	21.02	20.99	22.70	0-3
	Frequen	cy (MHz)		1717.5	1732.5	1747.5	Target Power + Max.	MPR Allowed per
	Cha	nnel		20025	20175	20325	Tolerance (dBm)	3GPP(dB)
		1	0	24.06	24.00	23.95	25.70	0
		1	36	24.10	23.97	23.93	25.70	0
		1	74	24.08	24.05	23.90	25.70	0
	QPSK	36	0	23.14	23.04	22.93	24.70	0-1
		36	18	23.05	23.00	22.90	24.70	0-1
		36	37	23.13	22.99	22.97	24.12	0-1
		75	0	23.12	22.99	22.95	24.70	0-1
		1	0	23.05	23.05	22.90	24.70	0-1
		1	36	23.05	23.02	22.91	24.70	0-1
		1	74	23.06	22.99	22.99	24.70	0-1
15	16-QAM	36	0	22.11	22.04	21.94	23.70	0-2
		36	18	22.09	21.98	21.95	23.70	0-2
		36	37	22.08	21.97	21.92	23.70	0-2
		75	0	22.12	21.98	21.91	23.70	0-2
		1	0	22.09	21.97	21.92	23.70	0-2
		1	36	22.07	21.99	21.99	23.70	0-2
		1	74	22.07	22.02	21.99	23.70	0-2
	64-QAM	36	0	21.05	21.01	20.94	22.70	0-3
		36	18	21.08	21.00	20.91	22.70	0-3
		36	37	21.07	21.00	20.96	22.70	0-3
		75	0	21.08	21.00	20.94	22.70	0-3

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				LTE	Band 4			
BW(Mhz)	Modulation	RB Size	RB Offset	Condu	ucted power	(dBm)	Target	
	Frequen	cy (MHz)	•	1715	1732.5	1750	Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
	Cha	nnel		20000	20175	20350		
		1	0	24.11	23.97	23.94	25.70	0
		1	25	24.06	23.98	23.97	25.70	0
		1	49	24.14	24.02	23.96	25.70	0
	QPSK	25	0	23.13	22.96	22.96	24.70	0-1
		25	12	23.13	23.05	22.95	24.70	0-1
		25	25	23.09	22.97	22.98	24.70	0-1
		50	0	23.13	23.01	22.96	24.70	0-1
		1	0	23.12	22.97	22.92	24.70	0-1
		1	25	23.13	23.04	22.94	24.70	0-1
		1	49	23.14	23.03	22.97	24.70	0-1
10	16-QAM	25	0	22.05	22.02	21.96	23.70	0-2
		25	12	22.09	21.96	21.97	23.70	0-2
		25	25	22.14	22.04	21.93	23.70	0-2
		50	0	22.07	21.98	21.92	23.70	0-2
		1	0	22.05	21.96	21.95	23.70	0-2
		1	25	22.05	21.98	21.94	23.70	0-2
		1	49	22.12	22.02	21.92	23.70	0-2
	64-QAM	25	0	21.13	21.01	20.96	22.70	0-3
		25	12	21.06	21.01	20.93	22.70	0-3
		25	25	21.06	21.02	20.95	22.70	0-3
		50	0	21.07	21.03	20.99	22.70	0-3
	Frequen	cy (MHz)		1712.5	1732.5	1752.5	Target Power + Max.	MPR Allowed per
	Cha	nnel		19975	20175	20375	Tolerance (dBm)	3GPP(dB)
		1	0	24.13	24.03	23.95	25.70	0
		1	12	24.13	24.04	23.91	25.70	0
		1	24	24.05	24.01	23.94	25.70	0
	QPSK	12	0	23.14	22.99	22.90	24.70	0-1
		12	6	23.12	23.02	22.93	24.70	0-1
		12	13	23.06	22.97	22.97	24.70	0-1
		25	0	23.11	22.99	22.97	24.70	0-1
		1	0	23.05	23.02	22.94	24.70	0-1
		1	12	23.09	23.04	22.90	24.70	0-1
		1	24	23.12	23.04	22.95	24.70	0-1
5	16-QAM	12	0	22.05	22.02	21.97	23.70	0-2
		12	6	22.06	21.96	21.91	23.70	0-2
		12	13	22.11	22.05	21.90	23.70	0-2
		25	0	22.06	22.00	21.95	23.70	0-2
		1	0	22.07	22.03	21.94	23.70	0-2
		1	12	22.13	21.98	21.99	23.70	0-2
		1	24	22.10	22.04	21.99	23.70	0-2
	64-QAM	12	0	21.09	21.03	20.93	22.70	0-3
		12	6	21.08	21.01	20.91	22.70	0-3
		12	13	21.08	21.05	20.95	22.70	0-3
		25	0	21.08	21.00	20.91	22.70	0-3

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				LTE	Band 4			
BW(Mhz)	Modulation	RB Size	RB Offset	Condu	ucted power	(dBm)	Target	
	Frequence	cy (MHz)		1711.5	1732.5	1753.5	Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
	Cha	nnel		19965	20175	20385		
		1	0	24.07	24.00	23.91	25.70	0
		1	7	24.11	24.02	23.92	25.70	0
		1	14	24.10	23.97	23.95	25.70	0
	QPSK	8	0	23.10	23.05	22.95	24.70	0-1
		8	4	23.06	23.00	22.99	24.70	0-1
		8	7	23.10	23.04	22.93	24.70	0-1
		15	0	23.09	23.05	22.92	24.70	0-1
		1	0	23.08	22.97	22.93	24.70	0-1
		1	7	23.10	22.97	22.94	24.70	0-1
		1	14	23.08	23.00	22.94	24.70	0-1
3	16-QAM	8	0	22.06	22.02	21.93	23.70	0-2
		8	4	22.07	21.99	21.96	23.70	0-2
		8	7	22.13	22.01	21.97	23.70	0-2
		15	0	22.05	21.96	21.97	23.70	0-2
		1	0	22.10	22.05	21.98	23.70	0-2
		1	7	22.09	22.05	21.95	23.70	0-2
		1	14	22.05	21.97	21.97	23.70	0-2
	64-QAM	8	0	21.09	21.01	20.99	22.70	0-3
		8	4	21.05	20.96	20.95	22.70	0-3
		8	7	21.12	21.02	20.90	22.70	0-3
		15	0	21.07	20.97	20.95	22.70	0-3
	Frequence	cy (MHz)		1710.7	1732.5	1754.3	Target Power + Max.	MPR Allowed per
	Cha	nnel		19957	20175	20393	Tolerance (dBm)	3GPP(dB)
		1	0	24.06	24.01	23.97	25.70	0
		1	2	24.06	24.00	23.95	25.70	0
		1	5	24.06	23.96	23.99	25.70	0
	QPSK	3	0	24.08	24.00	23.98	25.70	0
		3	2	24.08	24.02	23.92	25.70	0
		3	3	24.07	23.97	23.97	25.70	0
		6	0	23.11	23.04	22.99	24.70	0-1
		1	0	23.05	22.97	22.91	24.70	0-1
		1	2	23.09	22.97	22.94	24.70	0-1
		1	5	23.07	23.02	22.96	24.70	0-1
1.4	16-QAM	3	0	23.13	22.97	22.92	24.70	0-1
		3	2	23.06	23.01	22.94	24.70	0-1
		3	3	23.14	23.00	22.97	24.70	0-1
		6	0	22.13	22.03	21.92	23.70	0-2
		1	0	22.06	22.01	21.91	23.70	0-2
		1	2	22.13	21.99	21.97	23.70	0-2
		1	5	22.10	21.99	21.91	23.70	0-2
	64-QAM	3	0	22.09	22.04	21.91	23.70	0-2
		3	2	22.05	22.02	21.94	23.70	0-2
		3	3	22.07	22.02	21.95	23.70	0-2
		6	0	21.06	21.05	20.98	22.70	0-3

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	·			LTE	Band 5			
BW(Mhz)	Modulation	RB Size	RB Offset	Condu	ucted power	(dBm)	Target	
	Frequen	cy (MHz)		829	836.5	844	Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
	Cha	nnel		20450	20525	20600		
		1	0	24.14	24.13	24.06	25.20	0
		1	25	24.03	24.07	24.02	25.20	0
		1	49	24.10	24.05	23.96	25.20	0
	QPSK	25	0	23.08	23.11	23.04	24.20	0-1
		25	12	23.06	23.08	23.04	24.20	0-1
		25	25	23.10	23.04	23.00	24.20	0-1
		50	0	23.08	23.09	23.03	24.20	0-1
		1	0	23.12	23.09	23.02	24.20	0-1
		1	25	23.04	23.06	22.96	24.20	0-1
		1	49	23.06	23.07	22.99	24.20	0-1
10	16-QAM	25	0	22.07	22.09	22.02	23.20	0-2
		25	12	22.04	22.03	22.00	23.20	0-2
		25	25	22.07	22.02	22.02	23.20	0-2
		50	0	22.04	22.11	22.03	23.20	0-2
		1	0	22.03	22.05	21.96	23.20	0-2
		1	25	22.09	22.06	21.97	23.20	0-2
	64-QAM	1	49	22.11	22.07	21.95	23.20	0-2
		25	0	21.06	21.02	20.95	22.20	0-3
		25	12	21.09	21.06	21.03	22.20	0-3
		25	25	21.07	21.09	20.97	22.20	0-3
		50	0	21.03	21.07	21.01	22.20	0-3
	Frequen	cy (MHz)		826.5	836.5	846.5	Target Power + Max.	MPR Allowed per
	Cha	nnel		20425	20525	20625	Tolerance (dBm)	3GPP(dB)
		1	0	24.07	24.05	24.02	25.20	0
		1	12	24.03	24.06	24.02	25.20	0
		1	24	24.12	24.04	24.04	25.20	0
	QPSK	12	0	23.09	23.08	23.03	24.20	0-1
		12	6	23.12	23.04	23.00	24.20	0-1
		12	13	23.12	23.07	22.99	24.20	0-1
		25	0	23.10	23.10	23.03	24.20	0-1
		1	0	23.08	23.05	23.00	24.20	0-1
		1	12	23.06	23.10	23.04	24.20	0-1
		1	24	23.10	23.05	22.99	24.20	0-1
5	16-QAM	12	0	22.03	22.09	22.00	23.20	0-2
		12	6	22.10	22.07	22.03	23.20	0-2
		12	13	22.09	22.02	21.99	23.20	0-2
		25	0	22.08	22.06	22.01	23.20	0-2
		1	0	22.12	22.07	22.01	23.20	0-2
		1	12	22.06	22.03	22.01	23.20	0-2
		1	24	22.07	22.03	22.02	23.20	0-2
	64-QAM	12	0	21.06	21.07	20.96	22.20	0-3
	04 00 101	12	6	21.03	21.08	20.99	22.20	0-3
	04 00 101		6 13	21.03 21.04	21.08 21.05	20.99 20.99	22.20 22.20	0-3

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				LTE	Band 5			
BW(Mhz)	Modulation	RB Size	RB Offset	Condu	ucted power	(dBm)	Target	
	Frequenc	cy (MHz)		825.5	836.5	847.5	Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
	Char	nnel		20415	20525	20635		
		1	0	24.11	24.04	24.03	25.20	0
	[1	7	24.10	24.03	23.95	25.20	0
	[1	14	24.04	24.10	24.04	25.20	0
	QPSK	8	0	23.08	23.05	22.97	24.20	0-1
		8	4	23.04	23.03	22.98	24.20	0-1
		8	7	23.08	23.08	23.02	24.20	0-1
		15	0	23.09	23.04	23.02	24.20	0-1
		1	0	23.09	23.04	23.04	24.20	0-1
		1	7	23.03	23.06	23.04	24.20	0-1
		1	14	23.03	23.09	22.98	24.20	0-1
3	16-QAM	8	0	22.03	22.04	22.01	23.20	0-2
		8	4	22.08	22.02	22.00	23.20	0-2
	[8	7	22.07	22.04	21.97	23.20	0-2
		15	0	22.03	22.06	21.99	23.20	0-2
		1	0	22.10	22.04	22.03	23.20	0-2
	[1	7	22.04	22.05	22.03	23.20	0-2
		1	14	22.08	22.04	21.99	23.20	0-2
	64-QAM	8	0	21.07	21.11	21.03	22.20	0-3
	[8	4	21.04	21.10	20.97	22.20	0-3
	[8	7	21.11	21.08	21.00	22.20	0-3
		15	0	21.06	21.04	21.01	22.20	0-3
	Frequenc	cy (MHz)		1710.7	1732.5	1754.3	Target Power + Max.	MPR Allowed per
	Char	nnel		19957	20175	20393	Tolerance (dBm)	3GPP(dB)
		1	0	24.08	24.05	23.97	25.20	0
		1	2	24.10	24.07	23.99	25.20	0
		1	5	24.06	24.07	24.00	25.20	0
	QPSK	3	0	24.10	24.06	23.98	25.20	0
		3	2	24.03	24.03	24.00	25.20	0
	[3	3	24.09	24.06	24.00	25.20	0
		6	0	23.07	23.07	23.04	24.20	0-1
		1	0	23.03	23.05	23.01	24.20	0-1
	[1	2	23.03	23.08	22.97	24.20	0-1
	[1	5	23.03	23.02	23.02	24.20	0-1
1.4	16-QAM	3	0	23.10	23.05	22.99	24.20	0-1
	[3	2	23.08	23.11	23.03	24.20	0-1
	[3	3	23.12	23.06	23.00	24.20	0-1
		6	0	22.12	22.10	22.01	23.20	0-2
		1	0	22.07	22.07	22.02	23.20	0-2
	[1	2	22.03	22.08	21.98	23.20	0-2
	[1	5	22.05	22.06	22.02	23.20	0-2
	64-QAM	3	0	22.09	22.09	22.04	23.20	0-2
	[3	2	22.11	22.08	22.00	23.20	0-2
	1 F	3		22.06	22.04	21.99	23.20	0-2
		6	3	22.00	22.04	20.99	23.20	0-2

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				LTE	Band 7			
BW(Mhz)	Modulation	RB Size	RB Offset	Condu	ucted power	(dBm)	Target	
	Frequence	cy (MHz)		2510	2535	2560	Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
	Cha	nnel		20850	21100	21350		
1		1	0	23.67	23.73	23.57	25.20	0
		1	50	23.65	23.62	23.50	25.20	0
		1	99	23.56	23.62	23.53	25.20	0
	QPSK	50	0	22.65	22.68	22.46	24.20	0-1
		50	25	22.59	22.69	22.46	24.20	0-1
		50	50	22.63	22.70	22.51	24.20	0-1
		100	0	22.58	22.62	22.53	24.20	0-1
		1	0	22.56	22.66	22.47	24.20	0-1
		1	50	22.60	22.65	22.54	24.20	0-1
		1	99	22.56	22.68	22.48	24.20	0-1
20	16-QAM	50	0	21.57	21.62	21.46	23.20	0-2
		50	25	21.62	21.67	21.54	23.20	0-2
		50	50	21.58	21.69	21.53	23.20	0-2
		100	0	21.59	21.70	21.54	23.20	0-2
		1	0	21.60	21.63	21.46	23.20	0-2
		1	50	21.65	21.63	21.54	23.20	0-2
		1	99	21.56	21.63	21.52	23.20	0-2
	64-QAM	50	0	20.59	20.63	20.46	22.20	0-3
		50	25	20.56	20.63	20.50	22.20	0-3
		50	50	20.56	20.65	20.53	22.20	0-3
		100	0	20.59	20.68	20.54	22.20	0-3
	Frequenc		-	2507.5	2535	2562.5	Target	MPR Allowed per
							Power + Max.	
	Cha	nnel		20825	21100	21375	Tolerance (dBm)	3GPP(dB)
	Cha		0				Tolerance (dBm)	. ,
	Cha	1	0	23.65	23.69	23.55	Tolerance (dBm) 25.20	0
	Cha		0 36 74	23.65 23.60	23.69 23.66	23.55 23.47	Tolerance (dBm) 25.20 25.20	. ,
	Char	1	36	23.65	23.69	23.55	Tolerance (dBm) 25.20	0
		1 1 1	36 74	23.65 23.60 23.63	23.69 23.66 23.69	23.55 23.47 23.51	Tolerance (dBm) 25.20 25.20 25.20	0 0 0
		1 1 1 36	36 74 0	23.65 23.60 23.63 22.61	23.69 23.66 23.69 22.63	23.55 23.47 23.51 22.54	Tolerance (dBm) 25.20 25.20 25.20 24.20	0 0 0 0-1
		1 1 1 36 36	36 74 0 18	23.65 23.60 23.63 22.61 22.63	23.69 23.66 23.69 22.63 22.65	23.55 23.47 23.51 22.54 22.50	Tolerance (dBm) 25.20 25.20 25.20 24.20 24.20	0 0 0 0-1 0-1
		1 1 1 36 36 36	36 74 0 18 37	23.65 23.60 23.63 22.61 22.63 22.58	23.69 23.66 23.69 22.63 22.65 22.71	23.55 23.47 23.51 22.54 22.50 22.47	Tolerance (dBm) 25.20 25.20 24.20 24.20 24.20 24.20	0 0 0-1 0-1 0-1
		1 1 36 36 36 75 1	36 74 0 18 37 0	23.65 23.60 23.63 22.61 22.63 22.58 22.60 22.58	23.69 23.66 23.69 22.63 22.65 22.71 22.65 22.65 22.64	23.55 23.47 23.51 22.54 22.50 22.47 22.47 22.51	Tolerance (dBm) 25.20 25.20 24.20 24.20 24.20 24.20 24.20 24.20	0 0 0-1 0-1 0-1 0-1
		1 1 36 36 36 75 1 1	36 74 0 18 37 0 0 36	23.65 23.60 23.63 22.61 22.63 22.58 22.60 22.58 22.56	23.69 23.66 23.69 22.63 22.65 22.71 22.65 22.64 22.66	23.55 23.47 23.51 22.54 22.50 22.47 22.47 22.51 22.52	Tolerance (dBm) 25.20 25.20 24.20 24.20 24.20 24.20 24.20 24.20 24.20	0 0 0-1 0-1 0-1 0-1 0-1 0-1
15	QPSK	1 1 36 36 36 75 1 1 1	36 74 0 18 37 0 0 36 74	23.65 23.60 23.63 22.61 22.63 22.58 22.60 22.58 22.56 22.56 22.62	23.69 23.66 23.69 22.63 22.65 22.71 22.65 22.64 22.66 22.70	23.55 23.47 23.51 22.54 22.50 22.47 22.47 22.51 22.52 22.52	Tolerance (dBm) 25.20 25.20 24.20 24.20 24.20 24.20 24.20 24.20 24.20 24.20 24.20	0 0 0-1 0-1 0-1 0-1 0-1 0-1 0-1
15		1 1 36 36 36 75 1 1 1 36	36 74 0 18 37 0 0 36 74 0	23.65 23.60 23.63 22.61 22.63 22.58 22.60 22.58 22.56 22.56 22.62 21.57	23.69 23.66 23.69 22.63 22.65 22.71 22.65 22.64 22.66 22.70 21.69	23.55 23.47 23.51 22.54 22.50 22.47 22.47 22.51 22.52 22.52 21.48	Tolerance (dBm) 25.20 25.20 24.20 24.20 24.20 24.20 24.20 24.20 24.20 24.20 24.20 24.20 23.20	0 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-2
15	QPSK	1 1 36 36 36 75 1 1 1 1 36 36	36 74 0 18 37 0 0 36 74 0 18	23.65 23.60 23.63 22.61 22.63 22.58 22.60 22.58 22.56 22.56 22.56 22.62 21.57 21.58	23.69 23.66 23.69 22.63 22.65 22.71 22.65 22.64 22.64 22.66 22.70 21.69 21.71	23.55 23.47 23.51 22.54 22.50 22.47 22.51 22.52 22.52 21.48 21.51	Tolerance (dBm) 25.20 25.20 24.20 24.20 24.20 24.20 24.20 24.20 24.20 24.20 24.20 24.20 23.20	0 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-2 0-2
15	QPSK	1 1 36 36 36 75 1 1 1 36 36 36 36	36 74 0 18 37 0 0 36 74 0 18 37	23.65 23.60 23.63 22.61 22.63 22.58 22.60 22.58 22.56 22.56 22.56 22.62 21.57 21.58 21.59	23.69 23.66 23.69 22.63 22.65 22.71 22.65 22.64 22.66 22.70 21.69 21.71 21.70	23.55 23.47 23.51 22.54 22.50 22.47 22.47 22.52 22.52 22.52 21.48 21.51 21.48	Tolerance (dBm) 25.20 25.20 24.20 24.20 24.20 24.20 24.20 24.20 24.20 24.20 24.20 23.20 23.20 23.20	0 0 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1
15	QPSK	1 1 36 36 36 75 1 1 1 36 36 36 75	36 74 0 18 37 0 0 36 74 0 18 37 0	23.65 23.60 23.63 22.61 22.63 22.58 22.58 22.56 22.58 22.56 22.56 22.62 21.57 21.58 21.59 21.63	23.69 23.66 23.69 22.63 22.65 22.71 22.65 22.64 22.66 22.70 21.69 21.71 21.70 21.69	23.55 23.47 23.51 22.54 22.50 22.47 22.51 22.52 22.52 22.52 21.48 21.51 21.48 21.50	Tolerance (dBm) 25.20 25.20 24.20 24.20 24.20 24.20 24.20 24.20 24.20 23.20 23.20 23.20 23.20	0 0 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1
15	QPSK	1 1 36 36 36 75 1 1 1 36 36 36 75 1	36 74 0 18 37 0 0 36 74 0 18 37 0 0 0	23.65 23.60 23.63 22.61 22.63 22.58 22.56 22.56 22.56 22.62 21.57 21.58 21.59 21.63 21.59	23.69 23.66 23.69 22.63 22.65 22.71 22.65 22.64 22.66 22.70 21.69 21.71 21.70 21.69 21.62	23.55 23.47 23.51 22.54 22.50 22.47 22.52 22.52 22.52 21.48 21.51 21.51 21.51	Tolerance (dBm) 25.20 25.20 24.20 24.20 24.20 24.20 24.20 24.20 24.20 24.20 24.20 24.20 23.20 23.20 23.20 23.20 23.20	0 0 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1
15	QPSK	1 1 36 36 36 75 1 1 1 36 36 36 36 75 1 1	36 74 0 18 37 0 0 36 74 0 18 37 0 0 36	23.65 23.60 23.63 22.61 22.63 22.58 22.60 22.58 22.56 22.56 22.56 22.56 22.56 21.57 21.58 21.59 21.59	23.69 23.66 23.69 22.63 22.65 22.71 22.65 22.64 22.66 22.70 21.69 21.71 21.70 21.69 21.62 21.64	23.55 23.47 23.51 22.54 22.50 22.47 22.51 22.52 22.52 21.48 21.51 21.48 21.51 21.46	Tolerance (dBm) 25.20 25.20 24.20 24.20 24.20 24.20 24.20 24.20 24.20 24.20 23.20 23.20 23.20 23.20 23.20 23.20	0 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-2 0-2 0-2 0-2 0-2 0-2 0-2
15	QPSK	1 1 36 36 36 75 1 1 1 36 36 36 36 75 1 1 1 1	36 74 0 18 37 0 0 36 74 0 18 37 0 0 36 74	23.65 23.60 23.63 22.61 22.63 22.58 22.58 22.56 22.58 22.56 22.58 22.56 22.58 22.56 22.58 21.59 21.59 21.59 21.59	23.69 23.66 23.69 22.63 22.65 22.71 22.65 22.64 22.66 22.70 21.69 21.71 21.69 21.71 21.69 21.62 21.64 21.63	23.55 23.47 23.51 22.54 22.50 22.47 22.51 22.52 22.52 21.48 21.51 21.48 21.51 21.46 21.46	Tolerance (dBm) 25.20 25.20 24.20 24.20 24.20 24.20 24.20 24.20 24.20 23.20 23.20 23.20 23.20 23.20 23.20 23.20 23.20 23.20	0 0 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1
15	QPSK	$ \begin{array}{c} 1\\ 1\\ 36\\ 36\\ 36\\ 75\\ 1\\ 1\\ 1\\ 36\\ 36\\ 75\\ 1\\ 1\\ 1\\ 36\\ 36\\ 75\\ 1\\ 1\\ 36\\ 36\\ 75\\ 1\\ 1\\ 36\\ 75\\ 1\\ 36\\ 75\\ 1\\ 36\\ 75\\ 1\\ 1\\ 36\\ $	36 74 0 18 37 0 0 36 74 0 18 37 0 0 36 74 0 36 74 0	23.65 23.65 23.63 22.61 22.63 22.58 22.58 22.56 22.58 22.56 22.52 21.57 21.58 21.59 21.63 21.59 21.59 21.59 20.61	23.69 23.66 23.69 22.63 22.65 22.71 22.65 22.64 22.66 22.70 21.69 21.71 21.70 21.69 21.62 21.64 21.63 20.63	23.55 23.47 23.51 22.54 22.50 22.47 22.51 22.52 22.52 22.52 21.48 21.51 21.48 21.50 21.51 21.46 21.46 20.54	Tolerance (dBm) 25.20 25.20 24.20 24.20 24.20 24.20 24.20 24.20 24.20 24.20 23.20 23.20 23.20 23.20 23.20 23.20 23.20 23.20 23.20 23.20	0 0 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1
15	QPSK	1 1 36 36 36 75 1 1 1 36 36 36 36 75 1 1 1 1	36 74 0 18 37 0 0 36 74 0 18 37 0 0 36 74	23.65 23.60 23.63 22.61 22.63 22.58 22.58 22.56 22.58 22.56 22.58 22.56 22.58 22.56 22.58 21.59 21.59 21.59 21.59	23.69 23.66 23.69 22.63 22.65 22.71 22.65 22.64 22.66 22.70 21.69 21.71 21.69 21.71 21.69 21.62 21.64 21.63	23.55 23.47 23.51 22.54 22.50 22.47 22.51 22.52 22.52 21.48 21.51 21.48 21.51 21.46 21.46	Tolerance (dBm) 25.20 25.20 24.20 24.20 24.20 24.20 24.20 24.20 24.20 23.20 23.20 23.20 23.20 23.20 23.20 23.20 23.20 23.20	0 0 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1

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				LTE	Band 7			
BW(Mhz)	Modulation	RB Size	RB Offset	Condu	ucted power	(dBm)	Target	
	Frequence	cy (MHz)		2505	2535	2565	Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
	Cha	nnel		20800	21100	21400		
		1	0	23.59	23.63	23.50	25.20	0
		1	25	23.58	23.69	23.51	25.20	0
		1	49	23.64	23.63	23.51	25.20	0
	QPSK	25	0	22.58	22.69	22.53	24.20	0-1
		25	12	22.62	22.62	22.52	24.20	0-1
		25	25	22.57	22.63	22.53	24.20	0-1
		50	0	22.61	22.69	22.53	24.20	0-1
		1	0	22.57	22.64	22.47	24.20	0-1
		1	25	22.60	22.63	22.49	24.20	0-1
		1	49	22.65	22.66	22.48	24.20	
10	16-QAM	25	0	21.62	21.63	21.51	23.20	0-2
		25	12	21.58	21.66	21.55	23.20	
		25	25	21.56	21.70	21.55	23.20	
	50	0	21.65	21.70	21.51	23.20		
		1	0	21.63	21.68	21.47	23.20	
		1	25	21.61	21.70	21.50	23.20	
		1	49	21.58	21.66	21.54	23.20	0-2
	64-QAM	25	0	20.58	20.71	20.48	22.20	0-2 0-2 0-2 0-2 0-2 0-2 0-3 0-3 0-3 0-3 0-3 0-3
		25	12	20.57	20.64	20.53	22.20	
		25	25	20.63	20.63	20.46	22.20	
		50	0	20.64	20.64	20.55	22.20	0-3
	Frequence	cy (MHz)		2502.5	2535	2567.5	Target Power + Max.	MPR Allowed per
	Cha	nnel		20775	21100	21425	Tolerance (dBm)	3GPP(dB)
		1	0	23.58	23.63	23.49	25.20	0
		1	12	23.60	23.67	23.55	25.20	0
		1	24	23.64	23.63	23.47	25.20	0
	QPSK	12	0	22.63	22.69	22.51	24.20	0-1
		12	6	22.57	22.71	22.50	24.20	0-1
		12	13	22.65	22.68	22.53	24.20	0-1
		25	0	22.56	22.65	22.54	24.20	0-1
		1	0	22.56	22.67	22.51	24.20	0-1
		1	12	22.64	22.67	22.51	24.20	0-1
		1	24	22.65	22.66	22.53	24.20	0-1
5	16-QAM	12	0	21.56	21.68	21.51	23.20	0-2 0-2 0-3 0-3 0-3 0-3 0-3 0-3 MPR Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 1 0-1 0-1 0-1 0-1
		12	6	21.61	21.69	21.48	23.20	0-2
		12	13	21.62	21.65	21.46	23.20	0-2
		25	0	21.61	21.63	21.55	23.20	0-2
		1	0	21.59	21.64	21.49	23.20	0-2
		1	12	21.62	21.69	21.46	23.20	0-2
		1	24	21.63	21.65	21.51	23.20	0-2
	64 OAM	12	0	20.61	20.66	20.48	22.20	0-3
	64-QAM	•						
	04-QAW	12	6	20.65	20.62	20.54	22.20	0-3
	04-QAM		6 13	20.65 20.64	20.62 20.64	20.54 20.46	22.20 22.20	0-3 0-3

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				LTE E	3and 12			
BW(Mhz)	Modulation	RB Size	RB Offset	Condu	ucted power	(dBm)	Target	
	Frequen	cy (MHz)		704	707.5	711	Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
	Cha	nnel		23060	23095	23130	reletation (ability	
		1	0	23.68	23.67	23.71	25.20	0
		1	25	23.59	23.65	23.61	25.20	0
		1	49	23.60	23.64	23.66	25.20	0
	QPSK	25	0	22.53	22.59	22.65	24.20	0-1
		25	12	22.59	22.62	22.62	24.20	0-1
		25	25	22.57	22.45	22.35	24.20	0-1
		50	0	22.62	22.64	22.62	24.20	0-1
		1	0	22.59	22.63	22.61	24.20	0-1
		1	25	22.66	22.56	22.64	24.20	0-1
		1	49	22.65	22.63	22.61	24.20	0-1
10	16-QAM	25	0	21.62	21.58	21.63	23.20	0-2
		25	12	21.61	21.59	21.68	23.20	0-2
		25	25	21.64	21.64	21.63	23.20	0-2
	50	0	21.64	21.61	21.63	23.20	0-2	
	1	0	21.60	21.58	21.69	23.20	0-2	
		1	25	21.60	21.56	21.60	23.20	0-2
		1	49	21.65	21.59	21.66	23.20	0-2
	64-QAM	25	0	20.59	20.57	20.64	22.20	0-3
		25	12	20.64	20.56	20.63	22.20	0-2 0-3 0-3
		25	25	20.64	20.59	20.61	22.20	0-3
		50	0	20.60	20.57	20.63	22.20	0-3
	Frequence	cy (MHz)		701.5	707.5	713.5	Target Power + Max.	MPR Allowed per
	Cha	nnel		23035	23095	23155	Tolerance (dBm)	3GPP(dB)
		1	0	23.61	23.63	23.63	25.20	0
		1	12	23.59	23.61	23.69	25.20	0
		1	24	23.65	23.58	23.68	25.20	0
	QPSK	12	0	22.61	22.61	22.64	24.20	0-1
		12	6	22.61	22.60	22.66	24.20	0-1
		12	13	22.58	22.63	22.65	24.20	0-1
		25	0	22.61	22.57	22.68	24.20	0-1
		1	0	22.60	22.64	22.69	24.20	0-1
		1	12	22.61	22.60	22.69	24.20	0-1
		1	24	22.64	22.60	22.69	24.20	0-1
5	16-QAM	12	0	21.58	21.57	21.60	23.20	0-2
		12	6	21.66	21.63	21.69	23.20	0-2
		12	13	21.66	21.56	21.65	23.20	0-2
		25	0	21.60	21.62	21.63	23.20	0-2
		1	0	21.59	21.64	21.66	23.20	0-2
		1	12	21.66	21.58	21.61	23.20	0-2
		1	24	21.66	21.59	21.62	23.20	0-2
	64-QAM	12	0	20.66	20.60	20.63	22.20	0-3
	64-QAM		-				22.20	0-3
		12	6	20.64	20.58	20.67	22.20	0-3
		12 12	6 13	20.64 20.57	20.58	20.67	22.20	0-3

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				LTE E	Band 12			
BW(Mhz)	Modulation	RB Size	RB Offset	Condu	ucted power	(dBm)	Target	
	Frequenc	cy (MHz)		700.5	707.5	714.5	Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
	Char	nnel		23025	23095	23165		
		1	0	23.62	23.58	23.64	25.20	0
		1	7	23.61	23.65	23.61	25.20	0
		1	14	23.57	23.59	23.60	25.20	0
	QPSK	8	0	22.61	22.60	22.67	24.20	0-1
		8	4	22.57	22.65	22.60	24.20	0-1
		8	7	22.66	22.65	22.67	24.20	0-1
	[15	0	22.65	22.62	22.69	24.20	0-1
		1	0	22.58	22.57	22.63	24.20	0-1
		1	7	22.57	22.56	22.67	24.20	0-1
		1	14	22.66	22.57	22.62	24.20	0-1
3	16-QAM	8	0	21.65	21.63	21.69	23.20	0-2
	1	8	4	21.63	21.62	21.65	23.20	0-2
	1 [8	7	21.66	21.57	21.63	23.20	0-2
	1 [15	0	21.59	21.65	21.64	23.20	0-2
		1	0	21.63	21.59	21.64	23.20	0-2
	1 [1	7	21.66	21.62	21.67	23.20	0-2
	1 [1	14	21.62	21.65	21.67	23.20	0-2
	64-QAM	8	0	20.57	20.64	20.62	22.20	0-3
		8	4	20.63	20.59	20.67	22.20) 0 0 0 0-1 0-1 0-1 0-1 0-1 0-1
		8	7	20.57	20.59	20.66	22.20	
		15	0	20.63	20.57	20.60	22.20	0-3
	Frequenc	iency (MHz)		699.7	707.5	715.3	Target Power + Max.	
	Char	nnel		23017	23095	23173	Tolerance (dBm)	3GPP(dB)
		1	0	23.64	23.58	23.63	25.20	0
	1	1	2	23.58	23.56	23.67	25.20	0
		1	-					
	0001		5	23.58	23.65	23.65	25.20	0
	QPSK	3	5	23.58 22.59	23.65 22.56	23.65 22.64	25.20 24.20	-
	QPSK		-					0-1
	QPSK	3	0	22.59	22.56	22.64	24.20	0-1 0-1
	QPSK	3 3	0 2	22.59 22.65	22.56 22.56	22.64 22.69	24.20 24.20	0-1 0-1 0-1
	QPSK	3 3 3	0 2 3	22.59 22.65 22.60	22.56 22.56 22.62	22.64 22.69 22.68	24.20 24.20 24.20	3GPP(dB) 0 0 0 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-2 0-2 0-2 0-2 0-2 0-2 0-2 0-2 0-2 0-3 0-3 0-3 0-3 0-3 0-3 0-3 0-3 0-3 0-3 0-3 0-3 0-3 0-3 0-3 0-3 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1
	QPSK	3 3 3 6	0 2 3 0	22.59 22.65 22.60 22.66	22.56 22.56 22.62 22.57	22.64 22.69 22.68 22.62	24.20 24.20 24.20 24.20 24.20	
	QPSK	3 3 3 6 1	0 2 3 0 0	22.59 22.65 22.60 22.66 22.61	22.56 22.56 22.62 22.57 22.63	22.64 22.69 22.68 22.62 22.66	24.20 24.20 24.20 24.20 24.20 24.20	
1.4	0PSK 16-QAM	3 3 6 1 1	0 2 3 0 0 2	22.59 22.65 22.60 22.66 22.61 22.61	22.56 22.56 22.62 22.57 22.63 22.60	22.64 22.69 22.68 22.62 22.66 22.69	24.20 24.20 24.20 24.20 24.20 24.20 24.20	0-1 0-1 0-1 0-1 0-1 0-1 0-1
1.4		3 3 6 1 1 1	0 2 3 0 0 2 5	22.59 22.65 22.60 22.66 22.61 22.61 22.57	22.56 22.56 22.62 22.57 22.63 22.60 22.59	22.64 22.69 22.68 22.62 22.66 22.69 22.66	24.20 24.20 24.20 24.20 24.20 24.20 24.20 24.20	0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-2
1.4		3 3 6 1 1 1 3	0 2 3 0 0 2 5 0	22.59 22.65 22.60 22.61 22.61 22.61 22.57 21.61	22.56 22.56 22.62 22.57 22.63 22.60 22.59 21.61	22.64 22.69 22.68 22.62 22.66 22.69 22.66 21.69	24.20 24.20 24.20 24.20 24.20 24.20 24.20 24.20 24.20 23.20	0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-2 0-2
1.4		3 3 6 1 1 1 3 3	0 2 3 0 2 5 0 2	22.59 22.65 22.60 22.66 22.61 22.61 22.57 21.61 21.57	22.56 22.56 22.62 22.57 22.63 22.60 22.59 21.61 21.65	22.64 22.69 22.68 22.62 22.66 22.69 22.66 21.69 21.60	24.20 24.20 24.20 24.20 24.20 24.20 24.20 24.20 23.20 23.20	0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-2 0-2 0-2
1.4		3 3 6 1 1 3 3 3 3	0 2 3 0 2 5 0 2 3	22.59 22.65 22.60 22.61 22.61 22.57 21.61 21.57 21.62	22.56 22.56 22.62 22.57 22.63 22.60 22.59 21.61 21.65 21.61	22.64 22.69 22.68 22.62 22.66 22.69 22.66 21.69 21.60 21.67	24.20 24.20 24.20 24.20 24.20 24.20 24.20 23.20 23.20 23.20 23.20	0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-2 0-2 0-2
1.4		3 3 6 1 1 3 3 3 6	0 2 3 0 2 5 5 0 2 3 0	22.59 22.65 22.60 22.61 22.61 22.61 22.57 21.61 21.57 21.62 21.57	22.56 22.56 22.62 22.57 22.63 22.60 22.59 21.61 21.65 21.61 21.58	22.64 22.69 22.68 22.62 22.66 22.69 22.66 21.69 21.60 21.67 21.66	24.20 24.20 24.20 24.20 24.20 24.20 24.20 23.20 23.20 23.20 23.20 23.20	0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-2 0-2 0-2 0-2 0-2
1.4		3 3 6 1 1 3 3 3 6 1 1 1 1	0 2 3 0 2 5 0 2 3 0 0 0 0	22.59 22.65 22.60 22.61 22.61 22.61 22.57 21.61 21.57 21.62 21.57 21.61	22.56 22.56 22.62 22.57 22.63 22.60 22.59 21.61 21.65 21.61 21.58 21.60	22.64 22.69 22.68 22.62 22.66 22.69 22.66 21.69 21.60 21.67 21.66 21.66	24.20 24.20 24.20 24.20 24.20 24.20 24.20 23.20 23.20 23.20 23.20 23.20 23.20	0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-2 0-2 0-2 0-2 0-2 0-2 0-2
1.4		3 3 6 1 1 3 3 3 6 1 1	0 2 3 0 2 5 0 2 3 0 0 0 2 2	22.59 22.65 22.60 22.66 22.61 22.57 21.61 21.57 21.62 21.57 21.61 21.59	22.56 22.56 22.62 22.57 22.63 22.69 21.61 21.65 21.61 21.58 21.60 21.62	22.64 22.69 22.62 22.66 22.69 22.66 21.69 21.60 21.67 21.66 21.66 21.64	24.20 24.20 24.20 24.20 24.20 24.20 24.20 23.20 23.20 23.20 23.20 23.20 23.20 23.20 23.20	0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-2 0-2 0-2 0-2 0-2 0-2 0-2 0-2
1.4	16-QAM	3 3 6 1 1 3 3 3 6 1 1 1 1	0 2 3 0 2 5 0 2 3 0 0 0 0 2 5 5	22.59 22.65 22.60 22.66 22.61 22.57 21.61 21.57 21.62 21.57 21.61 21.59 21.63	22.56 22.56 22.62 22.57 22.63 22.60 22.59 21.61 21.65 21.61 21.58 21.60 21.62 21.56	22.64 22.69 22.62 22.66 22.66 22.69 22.66 21.69 21.60 21.67 21.66 21.66 21.64 21.64	24.20 24.20 24.20 24.20 24.20 24.20 23.20 23.20 23.20 23.20 23.20 23.20 23.20 23.20 23.20 23.20	0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-2 0-2 0-2 0-2 0-2 0-2 0-2 0-2 0-2 0-2
1.4	16-QAM	3 3 6 1 1 3 3 3 6 1 1 1 1 3	0 2 3 0 2 5 0 2 3 0 0 2 3 0 0 2 5 0 0	22.59 22.65 22.60 22.66 22.61 22.57 21.61 21.57 21.62 21.57 21.61 21.57 21.63 20.64	22.56 22.56 22.62 22.57 22.63 22.60 22.59 21.61 21.65 21.61 21.58 21.60 21.62 21.56 20.56	22.64 22.69 22.62 22.66 22.69 22.66 21.69 21.60 21.67 21.66 21.66 21.64 21.64 21.64 20.65	24.20 24.20 24.20 24.20 24.20 24.20 23.20 23.20 23.20 23.20 23.20 23.20 23.20 23.20 23.20 23.20 23.20 23.20 23.20	0-1 0-1 0-1 0-1 0-1 0-1 0-2 0-2 0-2 0-2 0-2 0-2 0-2 0-2 0-2 0-2

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				LTE E	and 13			
BW(Mhz)	Modulation	RB Size	RB Offset	Condu	ucted power	(dBm)	Target	
	Frequence	cy (MHz)		782	782	782	Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
	Cha	nnel		23230	23230	23230		
		1	0		24.28		25.20	0
		1	25		24.24		25.20	0
		1	49		24.09		25.20	0
	QPSK	25	0		23.28		24.20	0-1
		25	12		23.31		24.20	-
		25	25		23.24		24.20	
		50	0	23.27			24.20	
		1	0		23.18		24.20	
		1	25	23.16			24.20	
		1	49		23.21		24.20	-
10	16-QAM	25	0		22.17		23.20	
		25	12		22.21		23.20	
		25	25		22.17		23.20	
		50	0		22.23		23.20	
		1	0		22.17		23.20	
		1	25 49		22.11		23.20	
	64 OAM				22.21		23.20	
	64-QAM	25	0		21.25		22.20	
		25	12		21.20		22.20	0-2 0-2 0-2 0-2 0-2 0-2 0-2 0-2 0-3 0-3 0-3 0-3 0-3 0-3
		25 50	25 0		21.19 21.21		22.20 22.20	
		50	0		21.21		22.20	0-3
	Frequence	cy (MHz)		779.5	782	784.5	Target Power + Max.	
	Cha	nnel		23205	23230	23255	Tolerance (dBm)	3GPP(dB)
		1	0	24.17	24.17	24.20	25.20	0
		1	12	24.20	24.23	24.24	25.20	
		1	24	24.17	24.21	24.22	25.20	÷
	QPSK	12	0	23.24	23.18	23.22	24.20	
1		12	6	23.17	23.23	23.20	24.20	-
		12	13	23.23	23.20	23.18	24.20	
		25	0	23.19	23.17	23.24	24.20	
		1	0	23.25	23.20	23.18	24.20	-
		1	12	23.25	23.20	23.23	24.20	
_		1	24	23.20	23.26	23.20	24.20	
5	16-QAM	12	0	22.20	22.25	22.18	23.20	0 0 0 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-2 0-2 0-2 0-2 0-2 0-2 0-2 0-2 0-2 0-2
		12	6	22.24	22.26	22.21	23.20	
		12	13	22.18	22.25	22.24	23.20	
		25	0	22.22	22.20	22.17	23.20	
		1	0	22.21	22.17	22.18	23.20	-
1		1	12	22.17	22.22	22.25	23.20	
	64 0 444	1	24	22.19	22.22	22.21	23.20	
	64-QAM	12	0	21.23	21.21	21.24	22.20	0-3
		12	6	21.21	21.25	21.18	22.20	0-3
		12	13	21.25	21.19	21.32	22.20	0-3
		25	0	21.21	21.17	21.24	22.20	0-3

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				LTE E	Band 14			
BW(Mhz)	Modulation	RB Size	RB Offset	Condu	ucted power	(dBm)	Torget	
	Frequen	cy (MHz)		793	793	793	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
	Cha	nnel		23330	23330	23330		
		1	0		23.98		25.20	0
		1	25		23.83		25.20	0
		1	49		23.81		25.20	0
	QPSK	25	0		23.07		24.20	0-1
		25	12	22.95			24.20	0-1
		25	25		22.97		24.20	0-1
		50	0		23.04		24.20	0-1
		1	0	23.10			24.20	0-1
		1	25	23.05			24.20	0-1
		1	49		23.00		24.20	0-1
10	16-QAM	25	0		21.99		23.20	0-2
		25	12		22.01		23.20	0-2
		25	25		22.02		23.20	0-2
		50	0		22.00		23.20	0-2
	1	0		21.96		23.20	0-2	
		1	25	21.93			23.20	
		1	49	21.72			23.20	-
	64-QAM	25	0	20.38			22.20	0-2 0-2 0-3 0-3
		25	12	20.20			22.20	
		25	25		20.21		22.20	0-3
		50	0		20.25		22.20	0-3
	Frequen	cy (MHz)		790.5	793	795.5	Target Power + Max.	MPR Allowed per
	Cha	nnel		23305	23330	23355	Tolerance (dBm)	3GPP(dB)
		1	0	23.72	23.66	23.61	25.20	0
		1	12	23.69	23.53	23.49	25.20	0
		1	24	23.81	23.59	23.74	25.20	0
	QPSK	12	0	23.00	22.99	23.05	24.20	0-1
		12	6	23.05	22.93	23.04	24.20	0-1
		12	13	23.12	23.01	23.02	24.20	0-1
		25	0	23.18	23.01	22.96	24.20	0-1
		1	0	23.10	23.03	23.09	24.20	0-1
		1	12	23.14	23.06	23.01	24.20	0-1
		1	24	23.02	23.05	23.01	24.20	0-1
5	16-QAM	12	0	22.28	22.42	22.36	23.20	0-2
		12	6	22.38	22.31	22.31	23.20	0-2
		12	13	22.33	22.25	22.39	23.20	0-2
		25	0	22.26	22.30	22.34	23.20	0-2
		1	0	22.34	22.29	22.31	23.20	0-2
		1	12	22.27	22.24	22.34	23.20	0-2
		1	24	22.27	22.30	22.29	23.20	0-2
	64-QAM	12	0	20.33	20.29	20.37	22.20	0-3
		12	6	20.30	20.35	20.35	22.20	0-3
		12	13	20.26	20.38	20.40	22.20	0-3
		25	0	20.36	20.36	20.33	22.20	0-3

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				LTE E	and 17			
BW(Mhz)	Modulation	RB Size	RB Offset	Condu	ucted power	(dBm)	Target	
	Frequen	cy (MHz)		709	710	711	Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
	Cha	nnel		23780	23790	23800		
		1	0	23.71	23.67	23.65	25.20	0
		1	25	23.63	23.64	23.61	25.20	
		1	49	23.64	23.61	23.58	25.20	-
	QPSK	25	0	22.61	22.57	22.60	24.20	-
		25	12	22.63	22.62	22.60	24.20	÷ :
		25	25	22.62	22.62	22.61	24.20	÷.
		50	0	22.61	22.56	22.58	24.20	-
		1	0	22.67	22.56	22.57	24.20	÷.
		1	25	22.62	22.60	22.57	24.20	-
		1	49	22.62	22.64	22.61	24.20	0-1
10	16-QAM	25	0	21.63	21.61	21.62	23.20	0-2
		25	12	21.61	21.65	21.54	23.20	
		25	25	21.66	21.60	21.59	23.20	
		50	0	21.64	21.63	21.63	23.20	0-2
		1	0	21.60	21.59	21.56	23.20	0-2
		1	25	21.66	21.63	21.55	23.20	0-2
		1	49	21.63	21.58	21.55	23.20	0-2 0-2 0-2 0-2 0-2 0-2 0-2 0-3 0-3 0-3 0-3 0-3 0-3 0-3 0-3
	64-QAM	25	0	20.62	20.64	20.63	22.20	
		25	12	20.65	20.60	20.60	22.20	
		25	25	20.60	20.62	20.58	22.20	
		50	0	20.65	20.64	20.54	22.20	0-3
	Frequen	cy (MHz)		706.5	710	713.5	Target Power + Max.	
	Cha	nnel		23755	23790	23825	Tolerance (dBm)	3GPP(dB)
		1	0	23.63	23.62	23.63	25.20	0
		1	12	23.66	23.58	23.54	25.20	0
		1	24	23.67	23.57	23.57	25.20	0
	QPSK	12	0	22.62	22.57	22.56	24.20	0-1
		12	6	22.60	22.56	22.58	24.20	0-1
		12	13	22.68	22.57	22.63	24.20	0-1
		25	0	22.63	22.59	22.60	24.20	0-1
		1	0	22.68	22.65	22.59	24.20	0-1
		1	12	22.65	22.58	22.59	24.20	0-1
	1	1	24	22.67	22.56	22.58	24.20	0-1
							23.20	0-2
5	16-QAM	12	0	21.63	21.58	21.55	23.20	0-2
5	16-QAM	12 12	06	21.63 21.61	21.58 21.65	21.55 21.58	23.20	0-2
5	16-QAM							
5	16-QAM	12	6 13 0	21.61	21.65	21.58	23.20	0-2 0-2 0-2
5	16-QAM	12 12	6 13	21.61 21.61	21.65 21.59	21.58 21.54	23.20 23.20	0-2 0-2
5	16-QAM	12 12 25	6 13 0	21.61 21.61 21.64	21.65 21.59 21.62	21.58 21.54 21.56	23.20 23.20 23.20	0-2 0-2 0-2
5	16-QAM	12 12 25 1	6 13 0 0	21.61 21.61 21.64 21.60	21.65 21.59 21.62 21.58	21.58 21.54 21.56 21.55	23.20 23.20 23.20 23.20 23.20	0-2 0-2 0-2 0-2
5	16-QAM 64-QAM	12 12 25 1 1	6 13 0 0 12	21.61 21.61 21.64 21.60 21.61	21.65 21.59 21.62 21.58 21.57	21.58 21.54 21.56 21.55 21.63	23.20 23.20 23.20 23.20 23.20 23.20	0-2 0-2 0-2 0-2 0-2
5		12 12 25 1 1 1	6 13 0 0 12 24	21.61 21.61 21.64 21.60 21.61 21.67	21.65 21.59 21.62 21.58 21.57 21.60	21.58 21.54 21.56 21.55 21.63 21.57	23.20 23.20 23.20 23.20 23.20 23.20 23.20	0-2 0-2 0-2 0-2 0-2 0-2 0-2
5		12 12 25 1 1 1 1 12	6 13 0 0 12 24 0	21.61 21.61 21.64 21.60 21.61 21.67 20.64	21.65 21.59 21.62 21.58 21.57 21.60 20.61	21.58 21.54 21.56 21.55 21.63 21.57 20.58	23.20 23.20 23.20 23.20 23.20 23.20 23.20 23.20 22.20	0-2 0-2 0-2 0-2 0-2 0-2 0-2 0-3

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				LTE E	and 25			
BW(Mhz)	Modulation	RB Size	RB Offset	Condu	ucted power	(dBm)	Target	
	Frequen	cy (MHz)		1860	1882.5	1905	Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
	Cha	nnel		26140	26365	26590	(abiii)	
		1	0	24.01	23.95	23.98	25.70	0
		1	50	23.90	23.88	23.95	25.70	0
		1	99	23.92	23.89	23.91	25.70	0
	QPSK	50	0	22.97	22.92	22.89	24.70	0-1
		50	25	22.92	22.91	22.92	24.70	-
		50	50	22.99	22.87	22.94	24.70	-
		100	0	22.99	22.93	22.91	24.70	•
		1	0	22.96	22.91	22.94	24.70	
		1	50	22.90	22.84	22.94	24.70	
		1	99	22.98	22.92	22.96	24.70	-
20	16-QAM	50	0	21.99	21.87	21.88	23.70	
		50	25	21.93	21.87	21.95	23.70	-
		50	50	21.93	21.85	21.87	23.70	
	100	0	21.96	21.85	21.91	23.70		
		1	0	21.91	21.88	21.89	23.70	
		1	50	21.92	21.86	21.87	23.70	
		1	99	21.97	21.89	21.89	23.70	-
	64-QAM	50	0	20.94	20.92	20.94	22.70	3GPP(dB) 0 0 0 0 0-1 0-1 0-1 0-1 0-1 0
		50	25	20.93	20.84	20.92	22.70	
		50	50 0	20.92	20.87	20.93	22.70	3GPP(dB) 0 0 0 0-1 0-1 0-1 0-1 0-1 0-1
		100	0	20.98	20.90	20.91	22.70	0-3
BW(Mhz)	Modulation	RB Size	RB Offset	Condu	ucted power	(dBm)	Target	
	Frequen							
	Frequen	cy (MHz)		1857.5	1882.5	1907.5	Power + Max.	
	Frequenc	<u> </u>		26115	26365	26615	Power + Max. Tolerance (dBm)	3GPP(dB)
	· · ·	nnel	0	26115 23.90	26365 23.85	26615 23.91	Power + Max. Tolerance (dBm) 25.70	3GPP(dB)
	· · ·	nnel	36	26115 23.90 23.93	26365 23.85 23.89	26615 23.91 23.96	Power + Max. Tolerance (dBm) 25.70 25.70	3GPP(dB) 0 0
	Cha	nnel 1 1 1	36 74	26115 23.90 23.93 23.97	26365 23.85 23.89 23.91	26615 23.91 23.96 23.95	Power + Max. Tolerance (dBm) 25.70 25.70 25.70	3GPP(dB) 0 0 0
	· · ·	nnel 1 1 1 36	36 74 0	26115 23.90 23.93 23.97 22.99	26365 23.85 23.89 23.91 22.91	26615 23.91 23.96 23.95 22.95	Power + Max. Tolerance (dBm) 25.70 25.70 25.70 24.70	3GPP(dB) 0 0 0 0-1
	Cha	nnel 1 1 36 36	36 74 0 18	26115 23.90 23.93 23.97 22.99 22.92	26365 23.85 23.89 23.91 22.91 22.86	26615 23.91 23.96 23.95 22.95 22.92	Power + Max. Tolerance (dBm) 25.70 25.70 25.70 24.70 24.70	3GPP(dB) 0 0 0-1 0-1
	Cha	nnel 1 1 1 36 36 36 36	36 74 0 18 37	26115 23.90 23.93 23.97 22.99 22.92 22.92	26365 23.85 23.89 23.91 22.91 22.86 22.92	26615 23.91 23.96 23.95 22.95 22.95 22.92 22.96	Power + Max. Tolerance (dBm) 25.70 25.70 24.70 24.70 24.70 24.70	3GPP(dB) 0 0 0-1 0-1 0-1 0-1
	Cha	nnel 1 1 1 36 36 36 36 75	36 74 0 18 37 0	26115 23.90 23.93 23.97 22.99 22.92 22.92 22.92 22.93	26365 23.85 23.89 23.91 22.91 22.86 22.92 22.85	26615 23.91 23.96 23.95 22.95 22.92 22.96 22.96	Power + Max. Tolerance (dBm) 25.70 25.70 24.70 24.70 24.70 24.70 24.70	3GPP(dB) 0 0 0-1 0-1 0-1 0-1
	Cha	nnel 1 1 36 36 36 75 1	36 74 0 18 37 0 0	26115 23.90 23.93 23.97 22.99 22.92 22.92 22.93 22.93	26365 23.85 23.89 23.91 22.91 22.86 22.92 22.85 22.84	26615 23.91 23.96 23.95 22.95 22.92 22.96 22.96 22.89	Power + Max. Tolerance (dBm) 25.70 25.70 24.70 24.70 24.70 24.70 24.70 24.70	3GPP(dB) 0 0 0-1 0-1 0-1 0-1 0-1 0-1
	Cha	nnel 1 1 1 36 36 36 75 1 1 1	36 74 0 18 37 0 0 36	26115 23.90 23.93 23.97 22.99 22.92 22.92 22.93 22.93 22.93 22.95	26365 23.85 23.89 23.91 22.91 22.91 22.86 22.92 22.85 22.84 22.89	26615 23.91 23.96 23.95 22.95 22.95 22.92 22.96 22.96 22.89 22.88	Power + Max. Tolerance (dBm) 25.70 25.70 24.70 24.70 24.70 24.70 24.70 24.70 24.70	3GPP(dB) 0 0 0-1 0-1 0-1 0-1 0-1 0-1 0-1
45	Cha QPSK	nnel 1 1 1 1 36 36 36 36 75 1 1 1 1	36 74 0 18 37 0 0 0 36 74	26115 23.90 23.93 23.97 22.99 22.92 22.92 22.93 22.93 22.93 22.95 22.97	26365 23.85 23.89 23.91 22.91 22.86 22.92 22.85 22.84 22.89 22.86	26615 23.91 23.96 23.95 22.95 22.92 22.96 22.96 22.96 22.89 22.88 22.89	Power + Max. Tolerance (dBm) 25.70 25.70 24.70 24.70 24.70 24.70 24.70 24.70 24.70 24.70	3GPP(dB) 0 0 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1
15	Cha	nnel 1 1 1 36 36 36 75 1 1 1 1 36	36 74 0 18 37 0 0 36 74 0	26115 23.90 23.93 23.97 22.99 22.92 22.92 22.92 22.93 22.93 22.95 22.95 22.97 21.96	26365 23.85 23.89 23.91 22.91 22.86 22.92 22.85 22.84 22.89 22.86 21.87	26615 23.91 23.96 23.95 22.95 22.95 22.96 22.96 22.96 22.89 22.88 22.88 22.89 21.89	Power + Max. Tolerance (dBm) 25.70 25.70 24.70 24.70 24.70 24.70 24.70 24.70 24.70 24.70 24.70 24.70 23.70	3GPP(dB) 0 0 0-1 0-1 0-1 0-1 0-1 0-1 0-
15	Cha QPSK	nnel 1 1 1 1 36 36 36 75 1 1 1 1 36 36 36 36 36 36 36 36 36 36 36 36 36	36 74 0 18 37 0 0 36 74 0 18	26115 23.90 23.93 23.97 22.99 22.92 22.92 22.93 22.93 22.93 22.95 22.97 21.96 21.90	26365 23.85 23.89 23.91 22.91 22.86 22.92 22.85 22.84 22.89 22.89 22.86 21.87 21.88	26615 23.91 23.96 23.95 22.95 22.92 22.96 22.96 22.96 22.89 22.88 22.90 21.89 21.90	Power + Max. Tolerance (dBm) 25.70 25.70 24.70 24.70 24.70 24.70 24.70 24.70 24.70 24.70 24.70 23.70 23.70	3GPP(dB) 0 0 0 0-1 0-1 0-1 0-1 0-1 0-1
15	Cha QPSK	nnel 1 1 1 1 36 36 75 1 1 1 1 36 36 36 36 36 36 36 36 36 36 36 36 36	36 74 0 18 37 0 0 36 74 0 18 37	26115 23.90 23.93 23.97 22.99 22.92 22.92 22.93 22.93 22.93 22.93 22.95 22.97 21.96 21.90 21.98	26365 23.85 23.89 23.91 22.91 22.86 22.92 22.85 22.84 22.89 22.86 21.87 21.88 21.90	26615 23.91 23.96 23.95 22.95 22.92 22.96 22.96 22.89 22.88 22.90 21.89 21.90 21.88	Power + Max. Tolerance (dBm) 25.70 25.70 24.70 24.70 24.70 24.70 24.70 24.70 24.70 24.70 23.70 23.70 23.70	3GPP(dB) 0 0 0 0-1 0-1 0-1 0-1 0-1 0-1
15	Cha QPSK	nnel 1 1 1 36 36 75 1 1 1 36 36 36 75 75 75 75 75 75	36 74 0 18 37 0 0 36 74 0 18 37 0	26115 23.90 23.93 23.97 22.99 22.92 22.92 22.93 22.93 22.93 22.93 22.95 22.97 21.96 21.90 21.98 21.96	26365 23.85 23.89 23.91 22.91 22.86 22.92 22.85 22.84 22.84 22.89 22.86 21.87 21.88 21.90 21.93	26615 23.91 23.96 23.95 22.95 22.92 22.96 22.96 22.96 22.89 22.89 22.89 22.89 22.89 21.89 21.89 21.80 21.88 21.90	Power + Max. Tolerance (dBm) 25.70 25.70 24.70 24.70 24.70 24.70 24.70 24.70 24.70 23.70 23.70 23.70 23.70	3GPP(dB) 0 0 0 0-1 0-1 0-1 0-1 0-1 0-1
15	Cha QPSK	nnel 1 1 1 1 36 36 75 1 1 1 36 36 36 36 75 1 1 1 1 1 36 36 36 75 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	36 74 0 18 37 0 0 36 74 0 18 37 0 0 0	26115 23.90 23.93 23.97 22.99 22.92 22.92 22.93 22.93 22.93 22.93 22.95 22.97 21.96 21.90 21.98 21.96 21.93	26365 23.85 23.89 23.91 22.91 22.92 22.85 22.84 22.84 22.89 22.86 21.87 21.88 21.90 21.93 21.85	26615 23.91 23.96 23.95 22.95 22.96 22.96 22.96 22.89 22.89 22.89 22.89 21.89 21.90 21.88 21.90 21.96	Power + Max. Tolerance (dBm) 25.70 25.70 24.70 24.70 24.70 24.70 24.70 24.70 24.70 24.70 23.70 23.70 23.70 23.70 23.70	3GPP(dB) 0 0 0 0-1 0-1 0-1 0-1 0-1 0-1
15	Cha QPSK	nnel 1 1 1 1 36 36 36 36 75 1 1 1 36 36 36 36 36 36 36 36 1 1 1 1 1	36 74 0 18 37 0 0 36 74 0 18 37 0 0 36 36	26115 23.90 23.93 23.97 22.99 22.92 22.92 22.93 22.93 22.95 22.95 22.97 21.96 21.90 21.98 21.96 21.93 21.90	26365 23.85 23.89 23.91 22.91 22.86 22.92 22.85 22.84 22.89 22.86 21.87 21.88 21.90 21.93 21.85 21.87	26615 23.91 23.96 23.95 22.95 22.96 22.96 22.96 22.89 22.88 22.89 21.89 21.89 21.90 21.88 21.90 21.96 21.91	Power + Max. Tolerance (dBm) 25.70 25.70 24.70 24.70 24.70 24.70 24.70 24.70 24.70 24.70 23.70 23.70 23.70 23.70 23.70 23.70	3GPP(dB) 0 0 0 0-1 0-1 0-1 0-1 0-1 0-1
15	Cha QPSK 16-QAM	nnel 1 1 1 1 36 36 36 75 1 1 1 36 36 36 75 1 1 1 36 36 36 75 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	36 74 0 18 37 0 0 36 74 0 18 37 0 18 37 0 0 36 74	26115 23.90 23.93 23.97 22.99 22.92 22.92 22.93 22.93 22.95 22.95 22.97 21.96 21.90 21.98 21.96 21.93 21.90 21.90	26365 23.85 23.89 23.91 22.91 22.86 22.92 22.85 22.84 22.89 22.86 21.87 21.88 21.90 21.93 21.85 21.87 21.92	26615 23.91 23.96 23.95 22.95 22.92 22.96 22.96 22.96 22.88 22.88 22.88 22.88 21.90 21.89 21.90 21.89 21.90 21.90 21.90 21.95	Power + Max. Tolerance (dBm) 25.70 25.70 24.70 24.70 24.70 24.70 24.70 24.70 24.70 23.70 23.70 23.70 23.70 23.70 23.70 23.70 23.70	3GPP(dB) 0 0 0 0-1 0-1 0-1 0-1 0-1 0-1
15	Cha QPSK	nnel 1 1 1 1 36 36 36 75 1 1 1 36 36 36 75 1 1 1 36 36 75 1 1 1 36 36 75 1 1 36 36 75 1 1 36 36 75 1 1 36 36 75 1 1 36 36 75 1 1 36 36 75 1 1 1 36 36 75 1 1 1 36 36 75 1 1 1 36 36 75 1 1 1 1 36 36 75 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	36 74 0 18 37 0 0 36 74 0 18 37 0 0 36 74 0 36 74 0	26115 23.90 23.93 23.97 22.99 22.92 22.92 22.93 22.93 22.93 22.93 22.95 22.97 21.96 21.90 21.90 21.90 21.90 20.96	26365 23.85 23.89 23.91 22.91 22.86 22.85 22.84 22.89 22.85 22.84 22.89 22.86 21.87 21.88 21.90 21.93 21.85 21.87 21.92 20.84	26615 23.91 23.96 23.95 22.92 22.96 22.96 22.96 22.96 22.96 22.89 22.89 21.89 21.90 21.88 21.90 21.90 21.96 21.91 21.95 20.91	Power + Max. Tolerance (dBm) 25.70 25.70 24.70 24.70 24.70 24.70 24.70 24.70 24.70 24.70 23.70 23.70 23.70 23.70 23.70 23.70 23.70 23.70 23.70	3GPP(dB) 0 0 0 0-1 0-1 0-1 0-1 0-1 0-1
15	Cha QPSK 16-QAM	nnel 1 1 1 1 36 36 36 75 1 1 1 36 36 36 75 1 1 1 36 36 36 36 36 36 36 36 36 36 36 36 36	36 74 0 18 37 0 0 36 74 0 18 37 0 0 36 74 0 0 36 74 0 18	26115 23.90 23.93 23.97 22.92 22.92 22.92 22.93 22.93 22.93 22.93 22.93 22.95 22.97 21.96 21.90 21.98 21.90 21.90 21.90 21.90 20.96 20.90	26365 23.85 23.89 23.91 22.91 22.86 22.92 22.85 22.84 22.84 22.89 22.86 21.87 21.88 21.90 21.93 21.85 21.87 21.92 20.84 20.90	26615 23.91 23.96 23.95 22.95 22.92 22.96 22.96 22.96 22.89 22.89 22.89 21.89 21.90 21.88 21.90 21.90 21.96 21.91 21.95 20.91 20.93	Power + Max. Tolerance (dBm) 25.70 25.70 24.70 24.70 24.70 24.70 24.70 24.70 24.70 23.70 23.70 23.70 23.70 23.70 23.70 23.70 23.70 23.70 23.70 23.70 23.70 23.70 23.70	3GPP(dB) 0 0 0 0-1 0-1 0-1 0-1 0-1 0-1
15	Cha QPSK 16-QAM	nnel 1 1 1 1 36 36 36 75 1 1 1 36 36 36 75 1 1 1 36 36 75 1 1 1 36 36 75 1 1 36 36 75 1 1 36 36 75 1 1 36 36 75 1 1 36 36 75 1 1 36 36 75 1 1 1 36 36 75 1 1 1 36 36 75 1 1 1 36 36 75 1 1 1 1 36 36 75 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	36 74 0 18 37 0 0 36 74 0 18 37 0 0 36 74 0 36 74 0	26115 23.90 23.93 23.97 22.99 22.92 22.92 22.93 22.93 22.93 22.93 22.95 22.97 21.96 21.90 21.90 21.90 21.90 20.96	26365 23.85 23.89 23.91 22.91 22.86 22.85 22.84 22.89 22.85 22.84 22.89 22.86 21.87 21.88 21.90 21.93 21.85 21.87 21.92 20.84	26615 23.91 23.96 23.95 22.92 22.96 22.96 22.96 22.96 22.96 22.89 22.89 21.89 21.90 21.88 21.90 21.90 21.96 21.91 21.95 20.91	Power + Max. Tolerance (dBm) 25.70 25.70 24.70 24.70 24.70 24.70 24.70 24.70 24.70 24.70 23.70 23.70 23.70 23.70 23.70 23.70 23.70 23.70 23.70	3GPP(dB) 0 0 0 0-1 0-1 0-1 0-1 0-1 0-1

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	·			LTE E	and 25			
BW(Mhz)	Modulation	RB Size	RB Offset	Condu	ucted power	(dBm)	Target	
	Frequence	cy (MHz)		1855	1882.5	1910	Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
	Char	nnel		26090	26365	26640		
		1	0	23.92	23.89	23.88	25.70	0
		1	25	23.90	23.89	23.87	25.70	0
		1	49	23.98	23.91	23.95	25.70	0
	QPSK	25	0	22.90	22.87	22.91	24.70	0-1
		25	12	22.90	22.91	22.88	24.70	0-1
		25	25	22.96	22.91	22.91	24.70	0-1
		50	0	22.99	22.86	22.96	24.70	0-1
		1	0	22.95	22.91	22.89	24.70	0-1
		1	25	22.91	22.92	22.88	24.70	0-1
		1	49	22.93	22.88	22.89	24.70	0-1
10	16-QAM	25	0	21.90	21.87	21.92	23.70	0-2
		25	12	21.98	21.85	21.93	23.70	0-2
		25	25	21.95	21.83	21.87	23.70	0-2
		50	0	21.93	21.93	21.94	23.70	0-2
	1	0	21.92	21.93	21.87	23.70	0-2	
		1	25	21.92	21.88	21.90	23.70	0-2
		1	49	21.98	21.88	21.91	23.70	0 0 0.1 0.1 0.1 0.1 0.1 0.1 0.1
	64-QAM	25	0	20.99	20.93	20.95	22.70	0-3
		25	12	20.97	20.93	20.91	22.70	0 0-1 0-1 0-1 0-1 0-1 0-1 0-2 0-2 0-2 0-2 0-2 0-2 0-2 0-2
		25	25	20.96	20.89	20.92	22.70	
		50	0	20.91	20.86	20.96	22.70	
	Frequenc	cy (MHz)		1852.5	1882.5	1912.5	Target	MPR Allowed per
	Char	nnel		26065	26365	26665	Power + Max. Tolerance (dBm)	
		1	0	23.98	23.85	23.94	25.70	0
		1	12	23.99	23.90	23.87	25.70	-
		1	24	23.93	23.86	23.88	25.70	
	QPSK	12	0	22.94	22.84	22.91	24.70	÷
		12	6	22.99	22.90	22.93	24.70	
		12	13	22.94	22.88	22.96	24.70	
		25	0	22.98	22.91	22.88	24.70	-
		1	0	22.98	22.89	22.93	24.70	
		1	12	22.92	22.84	22.88	24.70	-
		1	24	22.94	22.91	22.93	24.70	
5	16-QAM	12	0	21.96	21.90	21.93	23.70	3GPP(dB) 0 0 0 0-1 0-1 0-1 0-1 0-1 0-1
		12	6	21.96	21.90	21.94	23.70	
		12	13	21.99	21.92	21.89	23.70	
		14	-	21.94	21.84	21.89	23.70	
		25	0				20.70	
		25 1	÷		21.88	21.96	23 70	0-2
		1	0	21.98	21.88	21.96	23.70 23.70	
		1 1	0	21.98 21.99	21.86	21.90	23.70	0-2
	64-QAM	1 1 1	0 12 24	21.98 21.99 21.92	21.86 21.91	21.90 21.96	23.70 23.70	0-2 0-2
	64-QAM	1 1 1 12	0 12 24 0	21.98 21.99 21.92 20.98	21.86 21.91 20.86	21.90 21.96 20.87	23.70 23.70 22.70	0-2 0-2 0-3
	64-QAM	1 1 1	0 12 24	21.98 21.99 21.92	21.86 21.91	21.90 21.96	23.70 23.70	0-2 0-2

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				LTE E	Band 25			
BW(Mhz)	Modulation	RB Size	RB Offset	Condu	ucted power	(dBm)	Target	
	Frequen	cy (MHz)		1851.5	1882.5	1913.5	Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
	Cha	nnel		26055	26365	26675		
		1	0	23.94	23.87	23.93	25.70	0
		1	7	23.99	23.90	23.92	25.70	0
		1	14	23.93	23.92	23.87	25.70	0
	QPSK	8	0	22.93	22.89	22.88	24.70	0-1
		8	4	22.97	22.87	22.88	24.70	0-1
		8	7	22.97	22.93	22.90	24.70	0-1
		15	0	22.96	22.88	22.96	24.70	0-1
		1	0	22.92	22.91	22.93	24.70	0-1
		1	7	22.93	22.88	22.88	24.70	0-1
		1	14	22.92	22.89	22.89	24.70	0-1
3	16-QAM	8	0	21.92	21.86	21.90	23.70	0-2
		8	4	21.91	21.92	21.91	23.70	0-2
		8	7	21.94	21.84	21.94	23.70	0-2
64-QAM	15	0	21.97	21.86	21.90	23.70	0-2	
		1	0	21.97	21.85	21.91	23.70	0-2
		1	7	21.99	21.88	21.92	23.70	0-2
		1	14	21.96	21.91	21.92	23.70	0-2
	64-QAM	8	0	20.91	20.93	20.89	22.70	0-3
		8	4	20.91	20.88	20.87	22.70	0-1 0-1 0-2 0-2 0-2 0-2 0-2 0-2 0-2 0-3 0-3 0-3 0-3 0-3 0-3 0-3 0-3 0-3
		8	7	20.94	20.85	20.89	22.70	
		15	0	20.92	20.86	20.91	22.70	0-3
	Frequen	cy (MHz)		1850.7	1882.5	1914.3	Target Power + Max.	MPR Allowed per
	Cha	nnel		26047	26365	26683	Tolerance (dBm)	3GPP(dB)
	1	1	0	23.92	23.89	23.93	25.70	0
		1	2	23.96	23.92	23.90	25.70	0
		1	5	23.92	23.85	23.90	25.70	0
	QPSK	3	0	23.99	23.93	23.96	25.70	0
		3	2	23.98	23.84	23.93	25.70	0
		3	3	23.92	23.88	23.92	25.70	0
		6	0	22.99	22.85	22.95	24.70	0-1
		1	0	22.91	22.86	22.88	24.70	0-1
		1	2	22.96	22.90	22.94	24.70	0-1
		1	5	22.99	22.84	22.91	24.70	0-1
1.4	16-QAM	3	0	22.90	22.88	22.94	24.70	0-1
		3	2	22.95	22.91	22.90	24.70	0-1
		3	3	22.98	22.88	22.95	24.70	0-1
		6	0	21.97	21.92	21.93	23.70	0-2
		1	0	21.94	21.86	21.93	23.70	0-2
		1	2	21.91	21.92	21.88	23.70	0-2
		1	5	21.92	21.90	21.91	23.70	0-2
	64-QAM	3	0	21.96	21.93	21.88	23.70	0-2
		3	2	21.95	21.93	21.90	23.70	0-2
		3	3	21.96	21.90	21.87	23.70	0-2
		6	0	20.99	20.93	20.94	22.70	0-3

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				LTE E	3and 26			
BW(Mhz)	Modulation	RB Size	RB Offset	Condu	ucted power	(dBm)	Target	
	Frequen	cy (MHz)		821.5	831.5	841.5	Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
	Cha	nnel		26765	26865	26965	relevance (upini)	
		1	0	23.95	24.02	23.96	25.20	0
		1	36	23.88	23.98	23.91	25.20	3GPP(dB)
		1	74	23.85	23.99	23.93	25.20	0
	QPSK	36	0	22.84	22.97	22.92	24.20	0-1
		36	18	22.85	22.99	22.85	24.20	0-1
		36	37	22.88	22.97	22.86	24.20	0-1
		75	0	22.89	22.95	22.89	24.20	0-1
		1	0	22.90	22.97	22.88	24.20	0-1
		1	36	22.87	22.93	22.88	24.20	0-1
		1	74	22.85	22.94	22.91	24.20	0-1
15	16-QAM	36	0	21.91	21.95	21.86	23.20	0-2
		36	18	21.85	21.92	21.90	23.20	0-2
		36	37	21.90	21.96	21.86	23.20	0-2
64-QAM	75	0	21.87	21.97	21.92	23.20	0-2	
	1	0	21.92	21.97	21.92	23.20	0-2	
		1	36	21.90	21.96	21.93	23.20	0-2
		1	74	21.91	21.92	21.94	23.20	0-2
	64-QAM	36	0	20.92	20.94	20.88	22.20	0-3
		36	18	20.85	21.00	20.91	22.20	0-2 0-2 0-2 0-3 0-3 0-3
		36	37	20.85	20.93	20.91	22.20	
		75	0	20.85	20.94	20.88	22.20	
	Frequen	cy (MHz)		819	831.5	844	Target	
	Cha	nnel		26740	26865	26990	Power + Max. Tolerance (dBm)	3GPP(dB)
		1	0	23.88	23.96	23.94	25.20	0
		1	25	23.86	23.97	23.93	25.20	0
		1	49	23.86	23.99	23.86	25.20	0
	QPSK	25	0	22.89	22.98	22.90	24.20	0-1
		25	12	22.93	22.95	22.92	24.20	0-1
		25	25	22.93	22.99	22.90	24.20	0-1
		50	0	22.87	22.98	22.94	24.20	0-1
		1	0	22.88	22.99	22.91	24.20	0-1
		1	25	22.86	22.91	22.89	24.20	0-1
		1	49	22.89	22.95	22.93	24.20	0-1
10	16-QAM	25	0	21.88	21.91	21.87	23.20	0-2
		25	12	21.87	21.91	21.89	23.20	0-2
		25	25	21.85	21.96	21.90	23.20	0-2
		50	0	21.84	21.96	21.92	23.20	0-2
		1	0	21.88	21.96	21.94	23.20	0-2
		1	25	21.88	21.96	21.91	23.20	0-2
			-	21.88	22.00	21.94	23.20	0-2
		1	49	21.00				
	64-QAM	1 25	49 0	20.91	21.00	20.93	22.20	0-3
	64-QAM				21.00 20.98	20.93 20.85	22.20 22.20	0-3 0-3
	64-QAM	25	0	20.91				

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				LTE E	and 26			
BW(Mhz)	Modulation	RB Size	RB Offset	Condu	ucted power	(dBm)	Target	
	Frequen	cy (MHz)		816.5	831.5	846.5	Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
	Cha	nnel		26715	26865	27015		
		1	0	23.90	23.95	23.85	25.20	0
		1	12	23.87	23.98	23.87	25.20	0
		1	24	23.88	23.99	23.91	25.20	0
	QPSK	12	0	22.90	22.95	22.94	24.20	0-1
		12	6	22.91	22.93	22.88	24.20	0-1
		12	13	22.86	22.91	22.85	24.20	0-1
		25	0	22.86	22.98	22.88	24.20	0-1
		1	0	22.85	22.96	22.92	24.20	0-1
		1	12	22.91	22.98	22.85	24.20	0-1
		1	24	22.92	22.91	22.91	24.20	0-1
5	16-QAM	12	0	21.89	21.92	21.86	23.20	0-2
		12	6	21.84	21.92	21.90	23.20	0-2
		12	13	21.88	21.95	21.85	23.20	0-2
	25	0	21.89	21.96	21.93	23.20	0-2	
		1	0	21.86	21.99	21.90	23.20	0-2
		1	12	21.92	21.91	21.94	23.20	0-2
		1	24	21.90	21.94	21.92	23.20	0 0 0.1 0.1 0.1 0.1 0.1 0.1 0.1
	64-QAM	12	0	20.92	20.98	20.90	22.20	0-3
		12	6	20.85	21.00	20.86	22.20	0-1 0-2 0-2 0-2 0-2 0-2 0-2 0-2 0-2
		12	13	20.91	20.96	20.92	22.20	
		25	0	20.88	20.91	20.94	22.20	
	Frequen	-		815.5	831.5	847.5	Target	
	Cha	nnel		26705	26865	27025	Power + Max. Tolerance (dBm)	3GPP(dB)
		1	0	23.86	24.00	23.86	25.20	0
				23.00		23.60	25.20	0
	1	1	7	23.88	23.98	23.86	25.20	
	0.001	1						0
	QPSK		7	23.88	23.98	23.86	25.20	0
	QPSK	1	7 14	23.88 23.84	23.98 23.94	23.86 23.88	25.20 25.20	0 0 0-1
	QPSK	1 8	7 14 0	23.88 23.84 22.86	23.98 23.94 22.96	23.86 23.88 22.92	25.20 25.20 24.20	0 0-1 0-1
	QPSK	1 8 8	7 14 0 4	23.88 23.84 22.86 22.93	23.98 23.94 22.96 22.96	23.86 23.88 22.92 22.87	25.20 25.20 24.20 24.20	0 0-1 0-1 0-1
	QPSK	1 8 8 8	7 14 0 4 7	23.88 23.84 22.86 22.93 22.86	23.98 23.94 22.96 22.96 22.91	23.86 23.88 22.92 22.87 22.92	25.20 25.20 24.20 24.20 24.20 24.20	0 0-1 0-1 0-1 0-1 0-1
	QPSK	1 8 8 8 15	7 14 0 4 7 0	23.88 23.84 22.86 22.93 22.86 22.86 22.87	23.98 23.94 22.96 22.96 22.91 22.95	23.86 23.88 22.92 22.87 22.92 22.92 22.91	25.20 25.20 24.20 24.20 24.20 24.20 24.20	0 0-1 0-1 0-1 0-1 0-1 0-1
	QPSK	1 8 8 15 1	7 14 0 4 7 0 0	23.88 23.84 22.86 22.93 22.86 22.87 22.85	23.98 23.94 22.96 22.96 22.91 22.95 22.92	23.86 23.88 22.92 22.87 22.92 22.91 22.92	25.20 25.20 24.20 24.20 24.20 24.20 24.20 24.20	0 0-1 0-1 0-1 0-1 0-1 0-1 0-2 0-2 0-2 0-2 0-2 0-2 0-2 0-2
3	QPSK	1 8 8 15 1 1	7 14 0 4 7 0 0 7	23.88 23.84 22.86 22.93 22.86 22.87 22.85 22.85 22.85 22.92	23.98 23.94 22.96 22.96 22.91 22.95 22.92 22.93	23.86 23.88 22.92 22.87 22.92 22.91 22.92 22.92 22.85	25.20 25.20 24.20 24.20 24.20 24.20 24.20 24.20 24.20	0 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1
3		1 8 8 15 1 1 1 1	7 14 0 4 7 0 0 7 14	23.88 23.84 22.86 22.93 22.86 22.87 22.85 22.85	23.98 23.94 22.96 22.96 22.91 22.95 22.92 22.93 22.93 22.97	23.86 23.88 22.92 22.87 22.92 22.91 22.92 22.92 22.85 22.89	25.20 25.20 24.20 24.20 24.20 24.20 24.20 24.20 24.20 24.20	0 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-2
3		1 8 8 15 1 1 1 8	7 14 0 4 7 0 0 7 14 0	23.88 23.84 22.86 22.93 22.86 22.87 22.85 22.85 22.85 22.92 21.88	23.98 23.94 22.96 22.91 22.95 22.92 22.93 22.97 21.98	23.86 23.88 22.92 22.87 22.92 22.91 22.92 22.85 22.89 21.86	25.20 25.20 24.20 24.20 24.20 24.20 24.20 24.20 24.20 24.20 23.20	0 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-2 0-2
3		1 8 8 15 1 1 1 8 8 8	7 14 0 4 7 0 0 7 7 14 0 4	23.88 23.84 22.86 22.93 22.86 22.87 22.85 22.85 22.85 22.85 22.85 22.92 21.88 21.89 21.85	23.98 23.94 22.96 22.96 22.95 22.95 22.92 22.93 22.93 22.93 22.93 21.98 21.93 21.94	23.86 23.88 22.92 22.87 22.92 22.91 22.92 22.85 22.85 22.89 21.86 21.85 21.93	25.20 25.20 24.20 24.20 24.20 24.20 24.20 24.20 24.20 24.20 23.20 23.20 23.20	0 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-2 0-2 0-2 0-2
3		1 8 8 15 1 1 1 8 8	7 14 0 4 7 0 0 7 7 14 0 4 7	23.88 23.84 22.86 22.93 22.86 22.87 22.85 22.85 22.92 21.88 21.89 21.85 21.93	23.98 23.94 22.96 22.96 22.91 22.95 22.92 22.93 22.97 21.98 21.93 21.94 22.00	23.86 23.88 22.92 22.87 22.92 22.91 22.92 22.85 22.89 21.86 21.85	25.20 25.20 24.20 24.20 24.20 24.20 24.20 24.20 24.20 24.20 23.20 23.20	0 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-2 0-2 0-2 0-2
3		1 8 8 15 1 1 1 8 8 8 8 15 15 1	7 14 0 4 7 0 0 7 14 0 4 7 0 0 0	23.88 23.84 22.86 22.93 22.86 22.87 22.85 22.85 22.85 22.92 21.88 21.89 21.85 21.93 21.85	23.98 23.94 22.96 22.91 22.95 22.92 22.93 22.97 21.98 21.93 21.93 21.94 22.00 21.92	23.86 23.88 22.92 22.87 22.92 22.92 22.92 22.85 22.89 21.86 21.85 21.93 21.86 21.87	25.20 24.20 24.20 24.20 24.20 24.20 24.20 24.20 24.20 23.20 23.20 23.20 23.20 23.20 23.20	0 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-2 0-2 0-2 0-2 0-2 0-2 0-2
3		1 8 8 15 1 1 1 8 8 8 8 15 1 1 1	7 14 0 7 0 0 7 14 0 4 7 0 0 7	23.88 23.84 22.86 22.93 22.86 22.87 22.85 22.85 22.85 22.92 21.88 21.89 21.85 21.93 21.85 21.86	23.98 23.94 22.96 22.96 22.95 22.92 22.93 22.93 22.93 21.98 21.93 21.94 22.00 21.92 21.92	23.86 23.88 22.92 22.87 22.92 22.91 22.92 22.85 22.89 21.86 21.85 21.93 21.86 21.87 21.92	25.20 25.20 24.20 24.20 24.20 24.20 24.20 24.20 24.20 23.20 23.20 23.20 23.20 23.20 23.20 23.20	0 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-2 0-2 0-2 0-2 0-2 0-2 0-2 0-2 0-2
3	16-QAM	1 8 8 15 1 1 1 8 8 8 8 15 1 1 1 1	7 14 0 4 7 0 0 7 14 0 4 7 0 0 7 14	23.88 23.84 22.86 22.93 22.86 22.87 22.85 22.85 22.92 21.88 21.89 21.85 21.93 21.85 21.86 21.86	23.98 23.94 22.96 22.96 22.95 22.92 22.93 22.97 21.98 21.93 21.94 22.00 21.92 21.92 22.00	23.86 23.88 22.92 22.87 22.91 22.92 22.85 22.89 21.86 21.85 21.93 21.86 21.85 21.93 21.86 21.87 21.92 21.87	25.20 25.20 24.20 24.20 24.20 24.20 24.20 24.20 23.20 23.20 23.20 23.20 23.20 23.20 23.20 23.20 23.20 23.20	0 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-2 0-2 0-2 0-2 0-2 0-2 0-2 0-2 0-2 0-2
3		1 8 8 15 1 1 1 8 8 8 15 1 1 1 1 8	7 14 0 4 7 0 0 7 14 0 4 7 0 0 7 14 0 7 14 0	23.88 23.84 22.86 22.93 22.85 22.87 22.85 22.85 22.92 21.88 21.89 21.85 21.93 21.85 21.86 21.86 21.86 20.93	23.98 23.94 22.96 22.96 22.95 22.92 22.93 22.97 21.98 21.93 21.94 22.00 21.92 21.92 21.92 22.00 20.99	23.86 23.88 22.92 22.87 22.92 22.91 22.92 22.85 22.89 21.86 21.85 21.93 21.86 21.87 21.92 21.87 20.90	25.20 25.20 24.20 24.20 24.20 24.20 24.20 24.20 23.20 23.20 23.20 23.20 23.20 23.20 23.20 23.20 23.20 23.20 23.20 23.20	0 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-
3	16-QAM	1 8 8 15 1 1 1 8 8 8 8 15 1 1 1 1	7 14 0 4 7 0 0 7 14 0 4 7 0 0 7 14	23.88 23.84 22.86 22.93 22.86 22.87 22.85 22.85 22.92 21.88 21.89 21.85 21.93 21.85 21.86 21.86	23.98 23.94 22.96 22.96 22.95 22.92 22.93 22.97 21.98 21.93 21.94 22.00 21.92 21.92 22.00	23.86 23.88 22.92 22.87 22.91 22.92 22.85 22.89 21.86 21.85 21.93 21.86 21.85 21.93 21.86 21.87 21.92 21.87	25.20 25.20 24.20 24.20 24.20 24.20 24.20 24.20 23.20 23.20 23.20 23.20 23.20 23.20 23.20 23.20 23.20 23.20	0 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-2 0-2 0-2 0-2 0-2 0-2 0-2 0-2 0-2 0-2

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	LTE Band 26										
BW(Mhz)	Modulation	RB Size	RB Offset	Condu	ucted power	(dBm)	Townsh				
	Frequence	cy (MHz)		814.7	831.5	848.3	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)			
	Char	nnel		26697	26865	27033					
		1	0	23.87	23.93	23.87	25.20	0			
		1	2	23.87	24.00	23.93	25.20	0			
	QPSK	1	5	23.88	23.93	23.86	25.20	0			
		3	0	22.89	22.94	22.93	24.20	0-1			
	[3	2	22.90	22.97	22.86	24.20	0-1			
	[3	3	22.85	22.93	22.85	24.20	0-1			
		6	0	22.84	23.00	22.91	24.20	0-1			
		1	0	22.85	22.93	22.94	24.20	0-1			
	[1	2	22.92	22.97	22.92	24.20	0-1			
	[1	5	22.84	23.00	22.94	24.20	0-1			
1.4	16-QAM	3	0	21.86	21.93	21.92	23.20	0-2			
	[3	2	21.88	22.00	21.89	23.20	0-2			
	[3	3	21.87	21.95	21.91	23.20	0-2			
	[6	0	21.91	21.97	21.86	23.20	0-2			
1		1	0	21.91	22.00	21.92	23.20	0-2			
		1	2	21.92	21.92	21.92	23.20	0-2			
		1	5	21.89	21.95	21.92	23.20	0-2			
	64-QAM	3	0	20.89	20.93	20.88	22.20	0-3			
		3	2	20.88	20.97	20.87	22.20	0-3			
	[3	3	20.91	20.93	20.87	22.20	0-3			
		6	0	20.91	21.00	20.89	22.20	0-3			

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				LTE E	and 30			
BW(Mhz)	Modulation	RB Size	RB Offset	Condu	ucted power	(dBm)	Target	
	Frequency (MHz)				2310	2310	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
	Channel				27710	27710		
	QPSK	1	0		22.91		24.00	0
		1	25	22.86			24.00	0
		1	49	22.77			24.00	0
		25	0	21.91			23.00	0-1
		25	12	21.96			23.00	0-1
		25	25	21.87			23.00	0-1
		50	0	21.96			23.00	0-1
		1	0	21.86			23.00	0-1
		1	25	21.82			23.00	0-1
		1	49	21.79			23.00	0-1
10	16-QAM	25	0	20.78			22.00	0-2
		25	12	20.81			22.00	0-2
		25	25	-	20.86		22.00	0-2
		50	0		20.86		22.00	0-2
		1	0	20.77			22.00	0-2
		1	25	20.86			22.00	0-2
	64-QAM	1	49	20.81			22.00	0-2
		25	0	19.77			21.00	0-3
		25	12	19.80			21.00	0-3
		25	25	19.77			21.00	0-3
	50 0			19.81			21.00	0-3
	Frequency (MHz)				2310	2312.5	Target Power + Max.	MPR Allowed per
	Channel				27710	27735	Tolerance (dBm)	3GPP(dB)
		1	0	22.83	22.80	22.85	24.00	0
		1	12	22.84	22.77	22.78	24.00	0
		1	24	22.80	22.77	22.83	24.00	0
	QPSK	12	0	21.82	21.86	21.80	23.00	0-1
		12	6	21.80	21.79	21.85	23.00	0-1
5		12	13	21.78	21.81	21.78	23.00	0-1
		25	0	21.83	21.86	21.79	23.00	0-1
	16-QAM	1	0	21.86	21.78	21.83	23.00	0-1
		1	12	21.78	21.83	21.77	23.00	0-1
		1	24	21.80	21.81	21.85	23.00	0-1
		12	0	20.78	20.85	20.77	22.00	0-2
		12	6	20.86	20.78	20.81	22.00	0-2
		12	13	20.77	20.83	20.85	22.00	0-2
		25	0	20.80	20.84	20.84	22.00	0-2
	64-QAM	1	0	20.84	20.85	20.77	22.00	0-2
		1	12	20.79	20.79	20.81	22.00	0-2
		1	24	20.77	20.80	20.82	22.00	0-2
		12	0	19.85	19.77	19.84	21.00	0-3
		12	6	19.85	19.83	19.80	21.00	0-3
		12	13	19.81	19.85	19.82	21.00	0-3
		25	0	19.83	19.85	19.83	21.00	0-3

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				LTE E	and 66			
BW(Mhz)	Modulation	RB Size	RB Offset	Condu	ucted power	(dBm)	Target	
Frequency (MHz)				1720	1745	1770	Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
	Channel				132322	132572		
	QPSK	1	0	23.76	23.77	23.73	25.20	0
		1	50	23.71	23.73	23.69	25.20	0
		1	99	23.69	23.68	23.68	25.20	0
		50	0	22.66	22.73	22.71	24.20	0-1
		50	25	22.68	22.70	22.64	24.20	0-1
		50	50	22.67	22.69	22.70	24.20	0-1
		100	0	22.71	22.74	22.68	24.20	0-1
		1	0	22.74	22.74	22.64	24.20	0-1
		1	50	22.67	22.66	22.68	24.20	0-1
		1	99	22.66	22.66	22.68	24.20	0-1
20	16-QAM	50	0	21.71	21.71	21.67	23.20	0-2
		50	25	21.71	21.71	21.63	23.20	0-2
		50	50	21.74	21.69	21.62	23.20	0-2
		100	0	21.70	21.70	21.71	23.20	0-2
		1	0	21.72	21.71	21.68	23.20	0-2
		1	50	21.67	21.71	21.64	23.20	0-2
		1	99	21.66	21.72	21.63	23.20	0-2
	64-QAM	50	0	20.74	20.75	20.71	22.20	0-3
		50	25	20.72	20.69	20.63	22.20	0-3
		50	50	20.67	20.67	20.70	22.20	0-3
		100	0	20.74	20.68	20.64	22.20	0-3
	Frequency (MHz)				1745	1772.5	Target	MPR Allowed per
	Channel				132322	132597	Power + Max. Tolerance (dBm)	3GPP(dB)
	QPSK	1	0	23.74	23.68	23.64	25.20	0
		1	36	23.65	23.69	23.66	25.20	0
		1	74	23.68	23.66	23.63	25.20	0
		36	0	22.67	22.75	22.71	24.20	0-1
15		36	18	22.65	22.73	22.65	24.20	0-1
		36	37	22.72	22.67	22.69	24.20	0-1
		75	0	22.69	22.70	22.68	24.20	0-1
		1	0	22.68	22.72	22.63	24.20	0-1
	16-QAM	1	36	22.67	22.71	22.68	24.20	0-1
		1	74	22.69	22.68	22.70	24.20	0-1
		36	0	21.71	21.75	21.69	23.20	0-2
		36	18	21.66	21.66	21.64	23.20	0-2
		36	37	21.72	21.70	21.66	23.20	0-2
		75	0	21.66	21.69	21.64	23.20	0-2
		1	0	21.66	21.71	21.66	23.20	0-2
						04.00	23.20	0-2
		1	36	21.66	21.70	21.63	23.20	0-2
			-	21.66 21.68	21.70 21.75	21.63 21.66	23.20	0-2
	64-QAM	1	36					
	64-QAM	1 1	36 74	21.68	21.75	21.66	23.20	0-2
	64-QAM	1 1 36	36 74 0	21.68 20.67	21.75 20.67	21.66 20.62	23.20 22.20	0-2 0-3

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				LTE E	Band 66				
BW(Mhz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target		
Frequency (MHz)				1715	1745	1775	Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
	Cha	nnel		132022		rololalioo (abili)			
		1	0	23.67	23.70	23.67	25.20	0	
	QPSK	1	25	23.70	23.67	23.70	25.20	0	
		1	49	23.74	23.73	23.71	25.20	0	
		25	0	22.70	22.73	22.67	24.20	0-1	
		25	12	22.65	22.72	22.68	24.20	0-1	
		25	25	22.66	22.72	22.71	24.20	0-1	
		50	0	22.68	22.66	22.65	24.20	0-1	
		1	0	22.68	22.66	22.69	24.20	0-1	
		1	25	22.74	22.74	22.71	24.20	0-1	
		1	49	22.73	22.68	22.62	24.20	0-1	
10	16-QAM	25	0	21.74	21.73	21.62	23.20	0-2	
		25	12	21.71	21.66	21.64	23.20	0-2	
		25	25	21.67	21.67	21.70	23.20	0-2	
		50	0	21.68	21.71	21.66	23.20	0-2	
		1	0	21.70	21.67	21.69	23.20	0-2	
		1	25	21.68	21.67	21.64	23.20	0-2	
	64-QAM	1	49	21.73	21.67	21.65	23.20	0-2	
		25	0	20.72	20.71	20.65	22.20	0-3	
		25	12	20.66	20.70	20.70	22.20	0-3	
		25	25	20.67	20.67	20.63	22.20	0-3	
		50	0	20.71	20.75	20.68	22.20	0-3	
	Frequency (MHz)				1745	1777.5	Target	MPR Allowed per	
	Channel				132322	132647	Power + Max. Tolerance (dBm)	3GPP(dB)	
		1	0	23.74	23.68	23.70	25.20	0	
		1	12	23.71	23.68	23.63	25.20	0	
5	QPSK	1	24	23.65	23.68	23.71	25.20	0	
		12	0	22.69	22.70	22.70	24.20	0-1	
		12	6	22.65	22.68	22.66	24.20	0-1	
		12	13	22.65	22.71	22.67	24.20	0-1	
		25	0	22.74	22.69	22.69	24.20	0-1	
		1	0	22.65	22.71	22.66	24.20	0-1	
	16-QAM	1	12	22.66	22.67	22.68	24.20	0-1	
		1	24	22.74	22.68	22.65	24.20	0-1	
		12	0	21.74	21.71	21.70	23.20	0-2	
		12	6	21.67	21.75	21.68	23.20	0-2	
		12	13	21.68	21.73	21.67	23.20	0-2	
		25	0	21.69	21.67	21.64	23.20	0-2	
		1	0	21.67	21.72	21.71	23.20	0-2	
		1	12	21.74	21.66	21.64	23.20	0-2	
			14			04.05	22.20	0-2	
		1	24	21.70	21.69	21.65	23.20	0-2	
	64-QAM			21.70 20.66	21.69 20.68	21.65	23.20	0-2	
	64-QAM	1	24	-					
	64-QAM	1 12	24 0	20.66	20.68	20.71	22.20	0-3	

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				LTE B	and 66			
BW(Mhz)	Modulation	RB Size	RB Offset	Condu	ucted power	(dBm)	Target	
	Frequence	cy (MHz)		1711.5	1745	1778.5	Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
	Chai	nnel		131987	132322	132657	(ubiii)	
		1	0	23.67	23.72	23.62	25.20	0
		1	7	23.70	23.71	23.71	25.20	0
		1	14	23.74	23.71	23.63	25.20	0
	QPSK	8	0	22.73	22.69	22.64	24.20	0-1
		8	4	22.67	22.67	22.63	24.20	0-1
		8	7	22.72	22.75	22.62	24.20	0-1
		15	0	22.65	22.72	22.67	24.20	0-1
		1	0	22.70	22.66	22.66	24.20	0-1
		1	7	22.66	22.67	22.63	24.20	0-1
	1 1	1	14	22.72	22.67	22.63	24.20	0-1
3	16-QAM	8	0	21.70	21.69	21.65	23.20	0-2
		8	4	21.67	21.70	21.69	23.20	0-2
		8	7	21.70	21.66	21.68	23.20	0-2
		15	0	21.68	21.69	21.62	23.20	0-2
		1	0	21.72	21.66	21.62	23.20	0-2
		1	7	21.66	21.70	21.63	23.20	0-2
		1	14	21.74	21.75	21.65	23.20	0-2 0-2 0-2 0-2
	64-QAM	8	0	20.70	20.66	20.62	22.20	
		8	4	20.71	20.71	20.70	22.20	
		8	7	20.73	20.73	20.66	22.20	0-3
		15	0	20.71	20.67	20.68	22.20	0-3
	Frequenc	cy (MHz)		1710.7	1745	1779.3	Target Power + Max.	MPR Allowed per
	Chai	nnel		131979	132322	132665	Tolerance (dBm)	3GPP(dB)
		1	0	00.00	00.07		25.20	0
	1 1		0	23.66	23.67	23.65	20.20	0
		1	2	23.66	23.67	23.65 23.69	25.20	0
			-					-
	QPSK	1	2	23.65	23.74	23.69	25.20	0
	QPSK	1 1	2 5	23.65 23.68	23.74 23.66	23.69 23.66	25.20 25.20	0
	QPSK	1 1 3	2 5 0	23.65 23.68 23.34	23.74 23.66 23.35	23.69 23.66 23.48	25.20 25.20 25.20	0 0 0
	QPSK	1 1 3 3	2 5 0 2	23.65 23.68 23.34 23.51	23.74 23.66 23.35 23.48	23.69 23.66 23.48 23.51	25.20 25.20 25.20 25.20 25.20	0 0 0 0
	QPSK	1 1 3 3 3	2 5 0 2 3	23.65 23.68 23.34 23.51 23.40	23.74 23.66 23.35 23.48 23.54	23.69 23.66 23.48 23.51 23.36	25.20 25.20 25.20 25.20 25.20 25.20	0 0 0 0 0
	QPSK	1 1 3 3 3 6	2 5 0 2 3 0	23.65 23.68 23.34 23.51 23.40 22.72	23.74 23.66 23.35 23.48 23.54 22.70	23.69 23.66 23.48 23.51 23.36 22.70	25.20 25.20 25.20 25.20 25.20 25.20 24.20	0 0 0 0 0 0 0-1
	QPSK	1 1 3 3 3 6 1	2 5 0 2 3 0 0	23.65 23.68 23.34 23.51 23.40 22.72 22.71	23.74 23.66 23.35 23.48 23.54 22.70 22.75	23.69 23.66 23.48 23.51 23.36 22.70 22.70	25.20 25.20 25.20 25.20 25.20 25.20 24.20 24.20	3GPP(dB) 0 0 0 0-1 0-1 0-1 0-1 0-1 0-1
1.4	QPSK 16-QAM	1 1 3 3 6 1 1	2 5 0 2 3 0 0 2	23.65 23.68 23.34 23.51 23.40 22.72 22.71 22.72	23.74 23.66 23.35 23.48 23.54 22.70 22.75 22.68	23.69 23.66 23.48 23.51 23.36 22.70 22.70 22.67	25.20 25.20 25.20 25.20 25.20 24.20 24.20 24.20 24.20	0 0 0 0-1 0-1 0-1 0-1 0-1
1.4		1 3 3 6 1 1 1	2 5 0 2 3 0 0 2 5	23.65 23.68 23.34 23.51 23.40 22.72 22.71 22.72 22.72 22.67	23.74 23.66 23.35 23.48 23.54 22.70 22.75 22.68 22.68	23.69 23.66 23.48 23.51 23.36 22.70 22.70 22.67 22.70	25.20 25.20 25.20 25.20 24.20 24.20 24.20 24.20 24.20 24.20	0 0 0 0-1 0-1 0-1 0-1 0-1 0-1
1.4		1 3 3 6 1 1 3	2 5 0 2 3 0 0 2 5 0	23.65 23.68 23.34 23.51 23.40 22.72 22.71 22.72 22.67 22.73	23.74 23.66 23.35 23.48 23.54 22.70 22.75 22.68 22.68 22.67	23.69 23.66 23.48 23.51 23.36 22.70 22.70 22.67 22.67 22.66	25.20 25.20 25.20 25.20 24.20 24.20 24.20 24.20 24.20 24.20 24.20	0 0 0 0-1 0-1 0-1 0-1 0-1 0-1 0-1
1.4		1 3 3 6 1 1 1 3 3	2 5 0 2 3 0 0 2 5 0 2	23.65 23.68 23.34 23.51 23.40 22.72 22.71 22.71 22.67 22.73 22.65	23.74 23.66 23.35 23.48 23.54 22.70 22.75 22.68 22.68 22.67 22.67	23.69 23.66 23.48 23.51 23.36 22.70 22.70 22.67 22.70 22.66 22.68	25.20 25.20 25.20 25.20 24.20 24.20 24.20 24.20 24.20 24.20 24.20 24.20 24.20	0 0 0 0 0-1 0-1 0-1 0-1 0-1 0-1 0-1
1.4		1 3 3 6 1 1 1 3 3 3	2 5 0 2 3 0 0 2 5 0 2 3	23.65 23.68 23.34 23.51 23.40 22.72 22.71 22.71 22.67 22.67 22.73 22.65 22.72	23.74 23.66 23.35 23.48 23.54 22.70 22.75 22.68 22.68 22.67 22.67 22.67	23.69 23.66 23.48 23.51 23.36 22.70 22.70 22.67 22.67 22.66 22.68 22.68	25.20 25.20 25.20 25.20 24.20 24.20 24.20 24.20 24.20 24.20 24.20 24.20 24.20	0 0 0 0 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1
1.4		1 3 3 6 1 1 1 3 3 3 6	2 5 0 2 3 0 0 2 5 0 2 5 0 2 3 0	23.65 23.68 23.34 23.51 23.40 22.72 22.71 22.72 22.67 22.73 22.65 22.72 21.74	23.74 23.66 23.35 23.48 23.54 22.70 22.75 22.68 22.68 22.67 22.67 22.67 22.71 21.69	23.69 23.66 23.48 23.51 23.36 22.70 22.67 22.67 22.66 22.68 22.68 22.66 21.70	25.20 25.20 25.20 25.20 24.20 24.20 24.20 24.20 24.20 24.20 24.20 24.20 24.20 24.20 24.20 23.20	0 0 0 0 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1
1.4		1 3 3 6 1 1 1 3 3 6 1	2 5 0 2 3 0 0 2 5 0 2 2 3 0 0 0 0	23.65 23.68 23.34 23.51 23.40 22.72 22.71 22.72 22.67 22.73 22.65 22.72 21.74 21.66	23.74 23.66 23.35 23.48 23.54 22.70 22.75 22.68 22.68 22.67 22.67 22.67 22.71 21.69 21.67	23.69 23.66 23.48 23.51 23.36 22.70 22.67 22.67 22.66 22.68 22.68 22.66 21.70 21.65	25.20 25.20 25.20 25.20 24.20 24.20 24.20 24.20 24.20 24.20 24.20 24.20 24.20 24.20 23.20	0 0 0 0 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1
1.4		1 1 3 3 6 1 1 1 3 3 6 1 1 1 1 1 1 1 1 1 1 1 1 1	2 5 0 2 3 0 0 2 5 0 2 3 0 0 0 0 2 2 3 0 0 2	23.65 23.68 23.34 23.51 23.40 22.72 22.71 22.72 22.67 22.73 22.65 22.73 22.65 22.72 21.74 21.66 21.66	23.74 23.66 23.35 23.48 23.54 22.70 22.75 22.68 22.68 22.68 22.67 22.67 22.67 22.67 22.67 21.69 21.67 21.66	23.69 23.66 23.48 23.51 23.36 22.70 22.67 22.67 22.66 22.68 22.68 22.68 22.66 21.70 21.65 21.66	25.20 25.20 25.20 25.20 24.20 24.20 24.20 24.20 24.20 24.20 24.20 24.20 24.20 24.20 23.20 23.20 23.20	0 0 0 0 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1
1.4	16-QAM	1 1 3 3 6 1 1 1 3 3 6 1 1 1 1 1 1 1 1 1 1 1 1 1	2 5 0 2 3 0 0 2 5 0 2 3 0 0 0 2 5 5 5	23.65 23.68 23.34 23.51 23.40 22.72 22.71 22.72 22.67 22.73 22.65 22.72 21.74 21.66 21.74	23.74 23.66 23.35 23.48 23.54 22.70 22.75 22.68 22.68 22.67 22.67 22.67 22.67 22.67 21.69 21.67 21.66 21.73 21.73	23.69 23.66 23.48 23.51 23.36 22.70 22.67 22.70 22.67 22.66 22.68 22.68 22.66 21.65 21.66 21.68	25.20 25.20 25.20 25.20 24.20 24.20 24.20 24.20 24.20 24.20 24.20 24.20 24.20 24.20 23.20 23.20 23.20 23.20	0 0 0 0 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1
1.4	16-QAM	1 1 3 3 6 1 1 1 3 3 6 1 1 1 1 3 3 3 6 1 1 1 3 3 3 6 1 1 3 3 3 3 3 5 6 1 1 1 3 3 3 5 6 1 1 1 3 3 5 6 1 1 1 3 3 5 6 1 1 1 3 3 5 6 1 1 1 3 3 5 6 1 1 1 3 3 5 6 1 1 1 3 3 5 6 1 1 1 3 3 5 6 1 1 1 3 3 5 6 1 1 1 3 3 5 6 1 1 1 3 3 5 6 1 1 1 3 3 5 6 1 1 1 3 3 5 6 1 1 1 3 3 5 6 1 1 1 1 3 3 5 6 1 1 1 1 1 1 3 3 5 6 1 1 1 1 3 3 3 6 1 1 1 1 3 3 3 3 1 1 1 1 3 3 3 5 1 1 1 1 3 3 3 1 1 1 1 1 3 3 3 5 1 1 1 1 1 1 3 3 3 1 1 1 1 1 1 1 1 3 3 3 1 1 1 1 1 1 1 1 1 1 1 3 3 3 1 1 1 1 1 1 3 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1	2 5 0 2 3 0 2 5 0 2 5 0 2 3 0 0 2 5 0 0 2 5 0 0	23.65 23.68 23.34 23.51 23.40 22.72 22.71 22.72 22.67 22.73 22.65 22.72 21.74 21.66 21.74 21.66	23.74 23.66 23.35 23.48 23.54 22.70 22.75 22.68 22.68 22.67 22.67 22.67 22.67 22.71 21.69 21.67 21.66 21.73	23.69 23.66 23.48 23.51 23.36 22.70 22.67 22.70 22.66 22.66 21.66 21.65 21.66 21.68 21.67	25.20 25.20 25.20 25.20 24.20 24.20 24.20 24.20 24.20 24.20 24.20 24.20 24.20 24.20 23.20 23.20 23.20 23.20 23.20	0 0 0 0 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1

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BW(Mhz) N				LTE E	Band 71			
	Modulation	RB Size	RB Offset	Condu	ucted power	(dBm)	Target	
·		cy (MHz)		673	680.5	688	Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
	Chai	nnel		133222	133297	133372		
		1	0	24.08	23.99	23.79	25.20	0
		1	50	24.06	23.94	23.77	25.20	0
		1	99	24.02	23.92	23.70	25.20	0
	QPSK	50	0	23.02	22.95	22.73	24.20	0-1
		50	25	23.04	22.90	22.76	24.20	0-1
		50	50	23.05	22.88	22.73	24.20	0-1
		100	0	23.00	22.90	22.75	24.20	0-1
		1	0	23.02	22.96	22.76	24.20	0-1
		1	50	22.97	22.95	22.77	24.20	0-1
		1	99	23.04	22.92	22.69	24.20	0-1
20	16-QAM	50	0	22.01	21.89	21.73	23.20	0-2
		50	25	22.02	21.91	21.70	23.20	0-2
		50	50	22.06	21.90	21.68	23.20	0-2
		100	0	22.06	21.89	21.76	23.20	0-2
		1	0	22.06	21.96	21.76	23.20	0-2
	1	1	50	21.97	21.90	21.70	23.20	
		1	99	22.05	21.91	21.76	23.20	3GPP(dB) 0 0 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.2
	64-QAM	50	0	21.06	20.92	20.76	22.20	
	0.00	50	25	20.97	20.92	20.70	22.20	
		50	50	21.05	20.95	20.71	22.20	
		100	0	20.97	20.93	20.71	22.20	
I	Frequence			670.5	680.5	690.5	Target	
	Char			133197	133297	133397	Power + Max. Tolerance (dBm)	
- T	- 1	1	0	24.05	23.96	23.71	25.20	0
		1	36	23.98	23.91	23.68	25.20	
		1	74	24.06	23.92	23.72	25.20	
	QPSK	36	0	23.05	22.91	22.75	24.20	÷
		36	18	22.99	22.88	22.68	24.20	-
		36	37	23.06	22.94	22.69	24.20	÷ .
		75	0	22.97	22.90	22.00	24.20	-
F		1	0	23.01	22.95	22.68	24.20	
		1	36	23.01	22.91	22.71	24.20	-
		1	74	23.06	22.91	22.69	24.20	
	16-QAM	36	0	22.06	21.97	21.70	23.20	3GPP(dB) 0 0 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.2 0.2 0.2 0.2 0.2 0.2 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.1 0.1 0.1 0.1 0.1 0.1 0.2
15		36	18	22.00	21.97	21.75	23.20	
15		36	37	22.00	21.90	21.75	23.20	
15	-	50	÷	22.00	21.89	21.00	23.20	÷ =
15		75			21.30	21.70	20.20	
15		75	0		21.07	21 70	23.20	
15		1	0	21.97	21.97	21.70	23.20	0-2
15		1 1	0 36	21.97 22.06	21.95	21.68	23.20	0-2 0-2
15	64 OAM	1 1 1	0 36 74	21.97 22.06 22.01	21.95 21.89	21.68 21.77	23.20 23.20	0-2 0-2 0-2
15	64-QAM	1 1 1 36	0 36 74 0	21.97 22.06 22.01 21.01	21.95 21.89 20.94	21.68 21.77 20.72	23.20 23.20 22.20	0-2 0-2 0-2 0-3
15	64-QAM	1 1 1	0 36 74	21.97 22.06 22.01	21.95 21.89	21.68 21.77	23.20 23.20	0-2 0-2 0-2

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	·			LTE E	Band 71			
BW(Mhz)	Modulation	RB Size	RB Offset	Condu	ucted power	(dBm)	Target	
	Frequence	cy (MHz)	•	668	680.5	693	Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
	Cha	nnel		133172	133297	133422		
		1	0	23.99	23.94	23.72	25.20	0
		1	25	24.05	23.92	23.71	25.20	÷
		1	49	24.05	23.92	23.75	25.20	-
	QPSK	25	0	22.99	22.90	22.76	24.20	
		25	12	23.01	22.93	22.68	24.20	•
		25	25	23.00	22.90	22.72	24.20	-
		50	0	23.03	22.95	22.68	24.20	•
		1	0	23.03	22.90	22.73	24.20	-
		1	25	23.02	22.94	22.76	24.20	
		1	49	23.03	22.88	22.68	24.20	
10	16-QAM	25	0	21.98	21.93	21.77	23.20	
		25	12	21.99	21.97	21.68	23.20	
		25	25	21.99	21.92	21.77	23.20	
		50	0	22.00	21.93	21.71	23.20	
		1	0	22.00	21.93	21.73	23.20	
		1	25	22.01	21.92	21.72	23.20	0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-2 0-2 0-2 0-2 0-2 0-2 0-2 0-2
		1	49	22.02	21.91	21.74	23.20	
	64-QAM	25	0	21.01	20.88	20.71	22.20	
		25	12	20.99	20.93	20.69	22.20	
		25	25	21.04	20.93	20.71	22.20	
		50	0	21.01	20.92	20.73	22.20	0-3
	Frequence	cy (MHz)		665.5	680.5	695.5	Target Power + Max.	
	Cha	nnel		133147	133297	133447	Tolerance (dBm)	3GPP(dB)
		1	0	24.01	23.90	23.69	25.20	0
		1	12	24.06	23.94	23.74	25.20	0
		1	24	24.02	23.91	23.75	25.20	0
	QPSK	12	0	22.97	22.95	22.70	24.20	0-1
		12	6	23.05	22.92	22.77	24.20	0-1
		12	13	22.98	22.92	22.71	24.20	0-1
		25	0	23.05	22.93	22.74	24.20	0-1
		1	0	22.99	22.88	22.76	24.20	0-1
		1	12	23.03	22.88	22.71	24.20	0-1
		1	24	23.04	22.96	22.73	24.20	3GPP(dB) 0 0 0 0 0-1 0-1 0-1 0-1 0-1 0
5	16-QAM	12	0	22.02	21.94	21.75	23.20	
		12	6	22.04	21.94	21.71	23.20	0-2
		12	13	22.06	21.88	21.77	23.20	0-2
		25	0	22.00	21.95	21.76	23.20	
		1	0	22.01	21.91	21.69	23.20	0-2
		1	12	21.99	21.94	21.69	23.20	0-2
		1	24	21.97	21.91	21.68	23.20	0-2
	64-QAM	12	0	21.01	20.89	20.74	22.20	0-3
		12	6	21.01	20.95	20.75	22.20	0-3
		12	13	21.00	20.96	20.73	22.20	0-3

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				LTE E	Band 38			
BW(Mhz)	Modulation	RB Size	RB Offset	Condu	ucted power	(dBm)	Torget	
	Frequen	cy (MHz)		2580	2595	2610	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
	Cha	nnel		37850	38000	38150	relevance (upini)	
		1	0	23.77	23.91	23.89	25.20	0
		1	50	23.73	23.83	23.85	25.20	0
		1	99	23.72	23.80	23.80	25.20	0
	QPSK	50	0	22.66	22.84	22.81	24.20	0-1
		50	25	22.68	22.87	22.82	24.20	0-1
		50	50	22.67	22.88	22.87	24.20	0-1
		100	0	22.70	22.88	22.80	24.20	0-1
		1	0	22.69	22.81	22.80	24.20	0-1
		1	50	22.70	22.84	22.87	24.20	0-1
		1	99	22.67	22.88	22.80	24.20	0-1
20	16-QAM	50	0	21.75	21.88	21.79	23.20	0-2
		50	25	21.67	21.87	21.81	23.20	0-2
		50	50	21.68	21.87	21.86	23.20	0-2
		100	0	21.66	21.84	21.87	23.20	0-2
		1	0	21.71	21.81	21.86	23.20	0-2
		1	50	21.66	21.88	21.87	23.20	0-2
		1	99	21.66	21.89	21.87	23.20	Max. (dBm) MPR Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0.1 0 0.1 0 0.1 0 0.1 0 0.1 0 0.1 0 0.1 0 0.1 0 0.1 0 0.1 0 0.1 0 0.1 0 0.2 0 0.2 0 0.2 0 0.2 0 0.2 0 0.2 0 0.2 0 0.2 0 0.3 0 0.3 0 0.3 0 0.3 0 0.3 0 0.1 0 0.1 0 0.1 0 0.1 0 0.1
	64-QAM	50	0	20.67	20.88	20.87	22.20	0-3
		50	25	20.68	20.81	20.84	22.20	0-3
		50	50	20.71	20.83	20.85	22.20	0-3
		100	0	20.67	20.84	20.78	22.20	0-3
	Frequen	cy (MHz)		2577.5	2595	2612.5	Target Power + Max.	MPR Allowed per
	Cha	nnel		37825	38000	38175	Tolerance (dBm)	3GPP(dB)
		1	0	23.70	23.80	23.86	25.20	0
		1	36	23.74	23.80	23.84	25.20	0
		1	74	23.70	23.80	23.86	25.20	0
	QPSK	36	0	22.75	22.88	22.81	24.20	0-1
		36	18	22.74	22.84	22.82	24.20	0-1
		36	37	22.66	22.86	22.86	24.20	0-1
		75	0	22.67	22.82	22.78	24.20	0-1
		1	0	22.73	22.89	22.80	24.20	0-1
		1	36	22.75	22.80	22.82	24.20	0-1
		1	74	22.67	22.83	22.82	24.20	0-1
15	16-QAM	36	0	21.75	21.89	21.86	23.20	0-2
		36	18	21.74	21.84	21.81	23.20	0-2
		36	37	21.71	21.80	21.85	23.20	0-2
		75	0	21.66	21.85	21.86	23.20	0-2
1		1	0	21.66	21.85	21.86	23.20	0-2
1		1	36	21.72	21.84	21.78	23.20	0-2
		1	74	21.75	21.83	21.82	23.20	0-2
1	64-QAM	36	0	20.68	20.86	20.79	22.20	0-3
		36	18	20.71	20.89	20.83	22.20	0-3
		36	37	20.68	20.83	20.87	22.20	0-3
1		75	0	20.69	20.83	20.83	22.20	0-3

LTE TDD Band 38 / Band 41 power table:

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				LTE E	3and 38			
BW(Mhz)	Modulation	RB Size	RB Offset	Condu	ucted power	(dBm)	Target	
	Frequen	cy (MHz)		2575	2595	2615	Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
	Cha	nnel		37800	38000	38200		
		1	0	23.67	23.81	23.85	25.20	0
		1	25	23.66	23.83	23.78	25.20	0
		1	49	23.70	23.88	23.79	25.20	0
	QPSK	25	0	22.75	22.85	22.81	24.20	0-1
		25	12	22.72	22.84	22.82	24.20	0-1
		25	25	22.74	22.87	22.80	24.20	0-1
		50	0	22.73	22.82	22.79	24.20	0-1
		1	0	22.72	22.89	22.83	24.20	0-1
		1	25	22.75	22.87	22.87	24.20	0-1
		1	49	22.75	22.81	22.79	24.20	0-1
10	16-QAM	25	0	21.69	21.83	21.86	23.20	0-2
		25	12	21.74	21.88	21.80	23.20	0-2
		25	25	21.68	21.84	21.84	23.20	0-2
		50	0	21.71	21.84	21.80	23.20	0-2
		1	0	21.68	21.88	21.84	23.20	0-2
		1	25	21.71	21.83	21.86	23.20	0-2
		1	49	21.68	21.82	21.83	23.20	0-1 0-1 0-2 0-2 0-2 0-2 0-2 0-2 0-2 0-2
	64-QAM	25	0	20.73	20.88	20.81	22.20	
		25	12	20.73	20.81	20.78	22.20	
		25	25	20.66	20.89	20.87	22.20	0-3
		50	0	20.67	20.88	20.79	22.20	0-3
	Frequen	cy (MHz)		2572.5	2595	2617.5	Target Power + Max.	
	Cha	nnel		37775	38000	38225	Tolerance (dBm)	3GPP(dB)
		1	0	23.73	23.82	23.84	25.20	0
		1	12	23.66	23.82	23.87	25.20	0
		1	24	23.66	23.81	23.81	25.20	0
	QPSK	12	0	22.71	22.80	22.81	24.20	0-1
		12	6	22.74	22.88	22.81	24.20	0-1
		12	13	22.75	22.86	22.86	24.20	0-1
		25	0	22.71	22.82	22.80	24.20	0-1
		1	0	22.66	22.82	22.82	24.20	0-1
		1	12	22.68	22.85	22.84	24.20	0-1
		1	24	22.74	22.87	22.87	24.20	0-3 0-3 0-3 0-3 MPR Allowed per 3GPP(dB) 0 0 0 0 0 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0
5	16-QAM	12	0	21.68	21.82	21.85	23.20	0-2
		12	6	21.72	21.88	21.80	23.20	0-2
		12	13	21.68	21.83	21.79	23.20	0-2
		25	0	21.74	21.89	21.79	23.20	0-2
		1	0	21.67	21.83	21.78	23.20	0-2
		1	12	21.73	21.81	21.81	23.20	0-2
		1	24	21.71	21.89	21.86	23.20	0-2
	64-QAM	12	0	20.69	20.86	20.87	22.20	0-3
		12	6	20.74	20.85	20.86	22.20	0-3
		12	13	20.71	20.87	20.78	22.20	0-3
		25	0	20.75	20.83	20.82	22.20	0-3

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					LTE E	Band 41				
BW(Mhz)	Modulation	RB Size	RB Offset		Cond	ucted power	(dBm)		_	
	Frequen	cy (MHz)		2506	2549.5	2593	2636.5	2680	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
	Cha	nnel		39750	40185	40620	41055	41490	Tolerance (ubin)	
		1	0	23.79	23.78	23.66	23.55	23.71	25.20	0
		1	50	23.71	23.74	23.59	23.52	23.63	25.20	0
		1	99	23.68	23.71	23.52	23.47	23.66	25.20	
	QPSK	50	0	22.71	22.71	22.64	22.46	22.68	24.20	
		50	25	22.77	22.73	22.59	22.48	22.64	24.20	
		50	50	22.71	22.72	22.64	22.49	22.69	24.20	
		100	0	22.72	22.76	22.61	22.52	22.61	24.20	
		1	0	22.70	22.69	22.62	22.45	22.65	24.20	
		1	50	22.76	22.76	22.57	22.51	22.67	24.20	
		1	99	22.77	22.67	22.57	22.51	22.64	24.20	
20	16-QAM	50	0	21.70	21.72	21.59	21.46	21.67	23.20	
		50	25	21.76	21.74	21.58	21.52	21.62	23.20	
		50	50	21.69	21.69	21.55	21.46	21.61	23.20	
		100	0	21.73	21.75	21.63	21.50	21.62	23.20	
		1	0	21.75	21.76	21.64	21.49	21.61		
		1	50	21.69	21.72	21.58	21.46	21.68		÷ =
		1	99	21.68	21.68	21.59	21.44	21.64		Max. Mirrk Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0-1 0 0-1 0 0-1 0 0-1 0 0-1 0 0-1 0 0-1 0 0-2 0 0-2 0 0-2 0 0-2 0 0-2 0 0-2 0 0-2 0 0-2 0 0-3 0 0-3 0 0-3 0 0-3 0 0 0 0 0 0 0 0 0 0 0 0 0
	64-QAM	50	0	20.76	20.71	20.61	20.48	20.68		
		50	25	20.68	20.76	20.60	20.46	20.69	23.20 23.20 23.20 22.20 22.20	
		50	50	20.74	20.67	20.62	20.44	20.61	22.20	
		100	0	20.70	20.75	20.62	20.46	20.62	22.20	0-3
	Frequen	cy (MHz)		2503.5	2548.3	2593	2637.8	2682.5	Target Power + Max.	
	Cha	nnel		39725	40173	40620	41068	41515	Tolerance (dBm)	3GPP(dB)
		1	0	23.72	23.67	23.57	23.44	23.63	25.20	0
		1	36	23.73	23.69	23.55	23.51	23.63	25.20	0
		1	74	23.72	23.69	23.63	23.49	23.66	25.20	0
	QPSK	36	0	22.68	22.68	22.64	22.53	22.69	24.20	0-1
		36	18	22.77	22.67	22.57	22.49	22.68	24.20	0-1
		36	37	22.74	22.69	22.60	22.53	22.62	24.20	0-1
		75	0	22.70	22.73	22.60	22.45	22.62	24.20	
		1	0	22.74	22.67	22.55	22.44	22.62	24.20	0-1
		1	36	22.74	22.73	22.61	22.46	22.67	24.20	0-1
		1	74	22.69	22.72	22.61	22.53	22.68	24.20	
15	16-QAM	36	0	21.74	21.67	21.58	21.51	21.60	23.20	0-2
		36	18	21.68	21.73	21.58	21.45	21.62	23.20	
		36	37	21.76	21.76	21.63	21.48	21.60	23.20	
		75	0	21.72	21.67	21.58	21.45	21.67	23.20	
		1	0	21.71	21.69	21.59	21.46	21.66	23.20	
		1	36	21.70	21.72	21.60	21.44	21.63	23.20	0-2
		1	74	21.73	21.71	21.62	21.52	21.69	23.20	0-2
	64-QAM	36	0	20.68	20.72	20.55	20.51	20.67	22.20	0-3
		36	18	20.70	20.76	20.57	20.44	20.66	22.20	0-3
		36	37	20.77	20.68	20.64	20.50	20.63	22.20	0-3
		75	0	20.75	20.73	20.62	20.48	20.68	22.20	0-3

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					LTE E	Band 41				
BW(Mhz)	Modulation	RB Size	RB Offset		Cond	ucted power	(dBm)			
	Frequence	cy (MHz)		2501	2547	2593	2639	2685	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
	Cha	nnel		39700	40160	40620	41080	41540	Tolerance (dbin)	
		1	0	23.71	23.75	23.55	23.52	23.68	25.20	0
		1	25	23.72	23.74	23.64	23.51	23.69	25.20	0
		1	49	23.68	23.68	23.64	23.47	23.65	25.20	0
	QPSK	25	0	22.69	22.75	22.60	22.51	22.65	24.20	0-1
		25	12	22.74	22.74	22.63	22.53	22.65	24.20	0-1
		25	25	22.72	22.70	22.56	22.45	22.60	24.20	0-1
		50	0	22.77	22.71	22.58	22.52	22.64	24.20	0-1
		1	0	22.71	22.76	22.55	22.46	22.63	24.20	0-1
		1	25	22.73	22.71	22.55	22.50	22.63	24.20	0-1
		1	49	22.70	22.68	22.55	22.50	22.67	24.20	0-1
10	16-QAM	25	0	21.69	21.73	21.57	21.53	21.67	23.20	0-2
		25	12	21.68	21.74	21.62	21.52	21.65	23.20	0-2
		25	25	21.76	21.70	21.57	21.47	21.64	23.20	0-2
		50	0	21.71	21.71	21.62	21.52	21.64	23.20	0-2
		1	0	21.69	21.73	21.63	21.47	21.68	23.20	0-2
		1	25	21.70	21.76	21.62	21.45	21.68	23.20	
		1	49	21.73	21.74	21.58	21.52	21.62	23.20 0-2 23.20 0-2 23.20 0-2 23.20 0-2 23.20 0-2 23.20 0-2 23.20 0-2 22.20 0-3 22.20 0-3 22.20 0-3	0-2
	64-QAM	25	0	20.74	20.68	20.63	20.53	20.61	22.20	0-3
		25	12	20.69	20.73	20.56	20.47	20.63		
	[25	25	20.76	20.68	20.64	20.52	20.68	22.20	0-3
		50	0	20.77	20.76	20.58	20.51	20.68	22.20	0-3
	Frequence	cy (MHz)		2498.5	2547.8	2593	2640.3	2687.5	Target Power + Max.	MPR Allowed per
	Cha	hannel		39675	40148	40620	41093	41565	Tolerance (dBm)	3GPP(dB)
		1	0	23.77	23.76	23.62	23.49	23.67	25.20	0
		1	12	23.74	23.75	23.61	23.45	23.62	25.20	0
		1	24	23.74	23.74	23.60	23.51	23.62	25.20	0
	QPSK	12	0	22.73	22.69	22.58	22.50	22.62	24.20	0-1
		12	6	22.75	22.76	22.56	22.46	22.63	24.20	0-1
		12	13	22.70	22.69	22.58	22.53	22.61	24.20	0-1
		25	0	22.68	22.76	22.57	22.49	22.67	24.20	0-1
		1	0	22.76	22.75	22.60	22.53	22.67	24.20	0-1
		1	12	22.70	22.74	22.61	22.44	22.68	24.20	0-1
		1	24	22.70	22.76	22.62	22.49	22.60	24.20	0-1
5	16-QAM	12	0	21.73	21.67	21.60	21.48	21.64	23.20	0-2
		12	6	21.74	21.76	21.60	21.44	21.66	23.20	0-2
		12	13	21.72	21.68	21.55	21.45	21.67	23.20	0-2
		25	0	21.71	21.68	21.59	21.53	21.66	23.20	0-2
		1	0	21.73	21.74	21.58	21.45	21.69	23.20	0-2
		1	12	21.71	21.72	21.56	21.46	21.62	23.20	0-2
		1	24	21.73	21.73	21.55	21.47	21.60	23.20	0-2
	64-QAM	12	0	20.75	20.72	20.58	20.50	20.65	22.20	0-3
		12	6	20.77	20.70	20.56	20.45	20.67	22.20	0-3
		12	13	20.77	20.69	20.58	20.52	20.68	22.20	0-3
		25	0	20.76	20.72	20.62	20.50	20.63	22.20	0-3

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					LTE Band	d 41(HPUE)				
BW(Mhz)	Modulation	RB Size	RB Offset		Cond	ucted power	(dBm)			
	Frequen	cy (MHz)		2506	2549.5	2593	2636.5	2680	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
	Cha	nnel		39750	40185	40620	41055	41490	Tolerance (ubiti)	
		1	0	25.78	25.55	25.53	25.57	25.51	27.20	0
		1	50	25.71	25.50	25.45	25.51	25.26	27.20	0
		1	99	25.74	25.46	25.51	25.50	25.28	27.20	0
	QPSK	50	0	24.74	24.46	24.44	24.50	24.28	26.20	0-1
		50	25	24.71	24.51	24.47	24.43	24.29	26.20	0-1
		50	50	24.72	24.47	24.46	24.46	24.24	26.20	0-1
		100	0	24.75	24.52	24.43	24.49	24.25	26.20	0-1
		1	0	24.74	24.46	24.48	24.42	24.29	26.20	0-1
		1	50	24.69	24.46	24.46	24.48	24.32	26.20	0-1
		1	99	24.67	24.53	24.45	24.43	24.33	26.20	0-1
20	16-QAM	50	0	23.70	23.46	23.50	23.47	23.28	25.20	0-2
		50	25	23.72	23.47	23.45	23.47	23.27	25.20	0-2
		50	50	23.67	23.50	23.43	23.47	23.26		0-2
		100	0	23.73	23.44	23.45	23.42	23.33		
		1	0	23.73	23.52	23.48	23.46	23.29		
		1	50	23.68	23.53	23.50	23.51	23.28		
		1	99	23.72	23.51	23.42	23.44	23.25		
	64-QAM	50	0	22.67	22.44	22.51	22.45	22.25		25.20 0-2 25.20 0-2 25.20 0-2 25.20 0-2 25.20 0-2 25.20 0-2 25.20 0-2 25.20 0-2 24.20 0-3 24.20 0-3 24.20 0-3 24.20 0-3
	04-02/00	50	25	22.71	22.49	22.43	22.44	22.28	25.20 25.20 25.20 25.20 25.20 24.20 24.20 24.20 24.20	
		50	50	22.67	22.44	22.42	22.44	22.32		
		100	0	22.07	22.44	22.42	22.42	22.32		
	Frequen		Ū	2503.5	2548.3	2593	2637.8	2682.5	Target	MPR Allowed per
	Channel			39725	40173	40620	41068	41515	Power + Max. Tolerance (dBm)	3GPP(dB)
		1	0	25.67	25.51	25.49	25.47	25.31	27.20	0
		1	36	25.67	25.47	25.48	25.45	25.27	27.20	0
		1	74	25.76	25.49	25.47	25.46	25.28	27.20	0
	QPSK	36	0	24.76	24.45	24.44	24.51	24.29	26.20	0-1
		36	18	24.73	24.52	24.48	24.43	24.30	26.20	0-1
		36	37	24.72	24.47	24.44	24.44	24.33	26.20	0-1
		75	0	24.69	24.50	24.47	24.49	24.33	26.20	0-1
		1	0	24.72	24.44	24.49	24.47	24.33	26.20	0-1
		1	36	24.73	24.50	24.43	24.50	24.28	26.20	0-1
		1	74	24.67	24.45	24.48	24.44	24.25	26.20	0-1
15	16-QAM	36	0	23.76	23.51	23.45	23.49	23.28	25.20	0-2
-		36	18	23.68	23.53	23.42	23.45	23.31	25.20	0-2
		36	37	23.68	23.50	23.43	23.44	23.32	25.20	0-2
		75	0	23.73	23.49	23.49	23.48	23.29	25.20	0-2
			-	23.69	23.51	23.43	23.44	23.28	25.20	0-2
		1	0			==:10				
		1	0		23.48	23.42	23.50	23.27	25.20	
		1 1 1	0 36 74	23.67	23.48 23.46	23.42	23.50 23.46	23.27	25.20	0-2
	64-QAM	1	36 74	23.67 23.75	23.46	23.48	23.46	23.24	25.20	0-2
	64-QAM	1 1 36	36 74 0	23.67 23.75 22.76	23.46 22.49	23.48 22.50	23.46 22.46	23.24 22.28	25.20 24.20	0-2 0-3
	64-QAM	1	36 74	23.67 23.75	23.46	23.48	23.46	23.24	25.20	0-2

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					LTE Band	1 41 (HPUE)				
BW(Mhz)	Modulation	RB Size	RB Offset		Cond	ucted power	(dBm)			
	Frequence	cy (MHz)		2501	2547	2593	2639	2685	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
	Cha	nnel		39700	40160	40620	41080	41540	Tolerance (ubin)	
		1	0	25.76	25.53	25.51	25.46	25.33	27.20	0
		1	25	25.72	25.48	25.51	25.44	25.31	27.20	0
		1	49	25.76	25.50	25.46	25.51	25.27	27.20	0
	QPSK	25	0	24.72	24.49	24.49	24.48	24.29	26.20	0-1
		25	12	24.73	24.49	24.47	24.42	24.33	26.20	0-1
		25	25	24.76	24.48	24.43	24.50	24.25	26.20	0-1
		50	0	24.75	24.49	24.51	24.47	24.26	26.20	0-1
		1	0	24.73	24.47	24.46	24.43	24.25	26.20	0-1
		1	25	24.71	24.50	24.42	24.49	24.29	26.20	0-1
		1	49	24.76	24.44	24.46	24.50	24.24	26.20	0-1
10	16-QAM	25	0	23.71	23.50	23.48	23.50	23.31	25.20	0-2
		25	12	23.71	23.47	23.50	23.46	23.30	25.20	0-2
		25	25	23.73	23.53	23.50	23.42	23.24	25.20	
		50	0	23.73	23.44	23.46	23.44	23.31	25.20	
		1	0	23.73	23.50	23.46	23.44	23.28	25.20	
		1	25	23.69	23.52	23.49	23.45	23.25	25.20	
		1	49	23.71	23.51	23.50	23.49			20 0-2 20 0-2 20 0-2 20 0-2 20 0-2 20 0-2 20 0-3 20 0-3
	64-QAM	25	0	22.72	22.48	22.46	22.48	8 22.31 24.20		
		25	12	22.76	22.53	22.49	22.44	22.24	24.20	
		25	25	22.74	22.47	22.44	22.48	22.30	24.20	
		50	0	22.76	22.52	22.50	22.51	22.28	24.20	0-3
	Frequence	cy (MHz)		2498.5	2547.8	2593	2640.3	2687.5	Target Power + Max.	MPR Allowed per
	Cha	Channel		39675	40148	40620	41093	41565	Tolerance (dBm)	3GPP(dB)
		1	0	25.74	25.46	25.46	25.46	25.24	27.20	0
		1	12	25.70	25.52	25.49	25.50	25.25	27.20	0
		1	24	25.73	25.44	25.48	25.46	25.26	27.20	0
	QPSK	12	0	24.75	24.51	24.50	24.45	24.27	26.20	0-1
		12	6	24.68	24.52	24.45	24.50	24.24	26.20	0-1
		12	13	24.74	24.46	24.44	24.51	24.33	26.20	0-1
		25	0	24.68	24.48	24.45	24.45	24.31	26.20	0-1
		1	0	24.70	24.49	24.46	24.43	24.24	26.20	0-1
		1	12	24.67	24.46	24.48	24.50	24.29	26.20	0-1
		1	24	24.75	24.51	24.47	24.50	24.25	26.20	0-1
5	16-QAM	12	0	23.70	23.49	23.44	23.49	23.28	25.20	0-2
		12	6	23.74	23.53	23.44	23.48	23.28	25.20	0-2
		12	13	23.72	23.47	23.44	23.51	23.29	25.20	0-2
		25	0	23.70	23.44	23.50	23.44	23.29	25.20	0-2
		1	0	23.74	23.46	23.49	23.49	23.30	25.20	0-2
		1	12	23.75	23.50	23.44	23.47	23.26	25.20	0-2
		1	24	23.72	23.46	23.47	23.43	23.28	25.20	0-2
	64-QAM	12	0	22.71	22.48	22.49	22.51	22.24	24.20	0-3
		12	6	22.73	22.48	22.48	22.47	22.26	24.20	0-3
		12	13	22.69	22.53	22.51	22.42	22.27	24.20	0-3
		25	0	22.71	22.47	22.44	22.48	22.30	24.20	0-3

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

Antenna	S	SO	MIMO
Band	Main	Aux	Main + Aux
WLAN802.11b	V	V	-
WLAN802.11g	V	V	-
WLAN802.11n(20M)	V	V	V
WLAN802.11n(40M)	V	V	V
WLAN802.11a	V	V	-
WLAN802.11n(20M) 5G	V	V	V
WLAN802.11n(40M) 5G	V	V	V
WLAN802.11ac(20M) 5G	V	V	V
WLAN802.11ac(40M) 5G	V	V	V
WLAN802.11ac(80M) 5G	V	V	V

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Aux Antenna

Aux Antenna											
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)					
		1	2412		19.50	19.41					
		6	2437		19.50	19.46					
	802.11b	10	2457	1Mbps	19.50	19.49					
	002.115	11	2462	TNIDPS	18.50						
		12	2467		18.50						
		13	2472		16.50						
		1	2412		17.00						
		6	2437		19.50						
	802.11g	11	2462	6Mbps	17.00						
		12	2467		14.00						
		13	2472		4.50						
		1	2412	6Mbps	17.00						
		6	2437		19.50						
	802.11n20-HT0	11	2462		17.00						
		12	2467		14.00						
2450 MHz		13	2472		4.50						
		1	2412		17.00	Not					
		6	2437		19.50	required					
	802.11ac20-VHT0	11	2462	6Mbps	17.00						
		12	2467		14.00						
		13	2472		4.50						
		3	2422		15.00						
		6	2437		18.50						
	802.11n40-HT0	9	2452	6Mbps	15.00						
		10	2457		8.50						
		11	2462		2.00						
		3	2422		15.00						
		6	2437		18.50						
	802.11ac40-VHT0	9	2452	6Mbps	15.00						
		10	2457		8.50						
		11	2462		2.00						

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Aux Antenna									
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)			
		36	5180		19.00				
	802.11a	40	5200	6Mbps	19.50				
	002.114	44	5220	0101000	19.50				
		48	5240		19.50				
	802.11n20-HT0	36	5180		19.00				
		40	5200	MCS0	19.50	Not			
	002.11120-1110	44	5220	WC30	19.50	required			
		48	5240		19.50				
5.15-5.25 GHz		36	5180		19.00				
	802.11ac20-VHT0	40	5200	MCS0	19.50				
	002.114620-0110	44	5220	WC30	19.50				
		48	5240		19.50				
	802.11n40-HT0	38	5190	MCS0	15.50	15.32			
	002.11140-FT10	46	5230	101030	19.50	19.41			
	802.11ac40-VHT0	38	5190	MCS0	15.50	Not			
	002.118040-1110	46	5230	10030	19.50				
	802.11ac80-VHT0	42	5210	MCS0	14.00	required			

Aux Antenna												
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)						
		52	5260		19.50							
	802.11a	56	5280	6Mbps	19.50							
	002.118	60	5300	olvibps	19.50							
		64	5320		19.00							
		52	5260		19.50							
	802.11n20-HT0	56	5280	MCSO	19.50	Not						
	002.11120-1110	60	5300	80 MCS0 19.50 19.50								
		64	5320		19.00							
5.25-5.35 GHz		52	5260		19.50							
	802.11ac20-VHT0	56	5280	MCS0	19.50							
	002.118020-01110	60	5300	WC30	19.50							
		64	5320		19.00							
	802.11n40-HT0	54	5270	MCS0	19.50	19.48						
	002.11140-1110	62	5310	IVIC SU	12.50	12.32						
	802.11ac40-VHT0	54	5270	MCS0	19.50	Not						
	002.114040-0110	62	5310	10030	12.50							
	802.11ac80-VHT0	58	5290	MCS0	13.00	required						

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Aux Antenna												
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)						
		100	5500		18.50							
	802.11a	116	5580	6Mbps	18.50							
	002.11a	140	5700	ownps	18.50							
		144	5720		18.50							
		100	5500		19.50							
	802.11n20-HT0	116	5580	MCS0	19.50							
	002.11120-1110	140	5700	101000	18.00							
		144	5720		19.00							
		100	5500		19.50							
	802.11ac20-VHT0	116	5580	MCS0	19.50	Not						
	802.11ac20-VH10	140	5700	101000	18.00	required						
5600 MHz		144	5720		19.00							
		102	5510		17.00							
	802.11n40-HT0	110	5550	MCS0	19.50							
	002.11140-1110	134	5670	MCS0	19.00							
		142	5710		19.50							
		102	5510		17.00							
	802.11ac40-VHT0	110	5550	MCS0	19.50							
	002.11ac40-v1110	134	5670	WC30	19.00							
		142	5710		19.50							
		106	5530		14.50	14.39						
	802.11ac80-VHT0	122	5610	MCS0	19.50	19.42						
		138	5690		19.50	19.49						

Aux Antenna												
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)						
		149	5745		19.50							
	802.11a	157	5785	6Mbps	19.50							
		165	5825		19.50							
		149	5745		19.50							
	802.11n20-HT0											
		165	5825		19.50	Not						
5800 MHz		149	5745		19.50							
5000 WII 12	802.11ac20-VHT0	157	5785	MCS0	19.50	required						
		165	5825		19.50							
	802.11n40-HT0	151	5755	MCS0	19.50							
	002.11140-1110	159	5795	WC30	19.50							
-	802.11ac40-VHT0	151	5755	MCS0	19.50							
	002.118040-01110	159	5795	101000	19.50							
	802.11ac80-VHT0	155	5775	MCS0	19.50	19.43						

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Main Antenna

		Main A	Antenna			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		1	2412		19.50	19.46
		6	2437		19.50	19.43
	802.11b	10	2457	1Mbps	19.50	19.48
	002.110	11	2462	TNDPS	18.50	
		12	2467		18.50	
		13	2472		16.50	
		1	2412		17.00	
		6	2437		19.50	
	802.11g	11	2462	6Mbps	17.00	
		12	2467		14.00	
		13	2472		4.50	
		1	2412		17.00	
		6	2437		19.50	
	802.11n20-HT0	11	2462	6Mbps		
		12	2467		14.00	
2450 MHz		13	2472		4.50	
		1	2412		17.00	Not
		6	2437		19.50	required
	802.11ac20-VHT0	11	2462	6Mbps	17.00	-
		12	2467		14.00	
		13	2472		4.50	
		3	2422		15.00	
		6	2437		18.50	
	802.11n40-HT0	9	2452	6Mbps	15.00	
		10	2457	_	8.50	
		11	2462		2.00	
		3	2422		15.00	
		6	2437		18.50	
	802.11ac40-VHT0	9	2452	6Mbps	15.00	
		10	2457		8.50	
		11	2462		2.00	

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Main Antenna											
Band	Mode	Channel Frequency (MHz)		Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)					
		36	5180		19.00						
	802.11a	40	5200	6Mbps	19.50						
	002.114	44	5220	owiopo	19.50						
		48	5240		19.50						
		36	5180		19.00						
	802.11n20-HT0	40 5200 MCS0 19.50	Not								
	002.11120-1110	44	5220	INCSU	required						
		48	5240		19.50						
5.15-5.25 GHz		36	5180		19.00						
	802.11ac20-VHT0	40	5200	MCS0	19.50						
	002.114620-0110	44	5220	INC30	19.50						
		48	5240		19.50						
	802.11n40-HT0	38	5190	MCS0	15.50	15.42					
	002.11140-H10	46	5230	101030	19.50	19.45					
	802.11ac40-VHT0	38	5190	MCS0	15.50	Not					
	002.118040-1010	46	5230	NIC30	19.50						
	802.11ac80-VHT0	42	5210	MCS0	14.00	required					

Main Antenna												
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)						
		52	5260		19.50							
	802.11a	56	5280	6Mbps	19.50							
	002.114	60	5300	0101005	19.50							
		64	5320		19.00							
		52	5260		19.50							
	802.11n20-HT0	56	5280	MCS0	19.50 19.50	Not						
	002.11120-1110	60	5300	WICOU	required							
		64	5320		19.00							
5.25-5.35 GHz		52	5260		19.50							
	802.11ac20-VHT0	56	5280	MCS0	19.50							
	002.118020-01110	60	5300	10000	19.50							
		64	5320		19.00							
	802.11n40-HT0	54	5270	MCS0	19.50	19.47						
	002.11140-1110	62	5310	IVIC SU	12.50	12.41						
	802.11ac40-VHT0	54	5270	MCS0	19.50	Not						
	002.114040-0110	62	5310	10030	12.50							
	802.11ac80-VHT0	58	5290	MCS0	13.00	required						

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Main Antenna											
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)					
		100	5500		18.50						
	802.11a	116	5580	6Mbps	18.50						
	002.11a	140	5700	Olvibps	18.50						
		144	5720		18.50						
		100	5500		19.50						
	802.11n20-HT0	116	5580	MCS0	19.50						
	002.11120-1110	140	5700	101000	18.00						
		144	5720		19.00						
		100	5500		19.50						
	802 11ac20_\/HT0	2.11ac20-VHT0 116 5580 MCS0 19.50	19.50	Not							
	002.114020-01110	140	5700	101000	18.00	required					
5600 MHz		144	5720		19.00						
		102	5510		17.00						
	802.11n40-HT0	110	5550	MCS0	19.50						
	002.11140-1110	134	5670	101000	19.00						
		142	5710		19.50						
		102	5510		17.00						
	802.11ac40-VHT0	110	5550	MCS0	19.50						
	002.11a040-V1110	134	5670	WICC00	19.00						
		142	5710		19.50						
		106	5530		14.50	14.46					
	802.11ac80-VHT0	122	5610	MCS0	19.50	19.43					
		138	5690		19.50	19.45					

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Main Antenna											
Mode	Mode	Mode Channel Frequency (MHz) D		Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)					
		149	5745		19.50						
	802.11a	157	5785	6Mbps	19.50						
		165	5825		19.50						
		149	5745		19.50						
	802.11n20-HT0	157	5785	MCS0							
		165	5825		19.50	Not					
5800 MHz		149	5745		19.50	required					
5000 IVIT IZ	802.11ac20-VHT0	157	5785	MCS0	19.50	required					
		165	5825		19.50						
	802.11n40-HT0	151	5755	MCS0	19.50						
	002.11140-010	159	5795	10000	19.50						
	802.11ac40-VHT0	151	5755	MCS0	19.50						
	002.110040-01110	159	5795	10000	19.50						
	802.11ac80-VHT0	155	5775	MCS0	19.50	19.47					

Bluetooth conducted power table:

			1Mb	ps	2Mb	ps	3Mbps		
Mode	Channel	Frequency (MHz)	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)	
	CH 00	2402	12.00	10.24	12.00	Net	12.00	Nat	
BR/EDR	CH 39	2441	12.00	10.32	12.00	Not required	12.00	Not	
	CH 78	2480	12.00	10.11	12.00	required	12.00	required	

Mode	Channel	Frequency	G	FSK
Mode	Channel	(MHz)	Max. Rated Avg.Power + Max. Tolerance (dBm)	Average Output Power (dBm)
	CH 37			Net
BLE	CH 17	2440	5	Not required
	CH 39	2480		Tequiled

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			Blu	etooth	_Main						
Total time	0	perat	ing ti	me	Duty	сус	le		D	uty	factor
1.27ms		0.3	7ms	(().37/1.2	7) =	0.29	1	1/0	.291	=3.436
Marker 3 3.650	000 ms); Fast -+ in:Luw			Avs	Type:	Log-P			ALQ 12, 2 IACE DET
10 dB/an Ref C	0.00 dBm								N	lkr3 -30	3.650 n 9.03 dB
-10.0											
-20.0		5 ¹ .0 ²	63								
40.0		Ť									
20.0											
(D)()			_	-			_				
To De La Carlos	in the				in fully		1.0				in the second
200				-							
Center 2.441000 Res BW 8 MHz	0000 GHz		#VB	V 120 KH			s	veep	10.	00 ms	Span 0 (1001 p
INCR NEEDE TRE SC.		× .		Ŧ		TITIN		TIDE	_		T/DN WALLE
		2.39 2.75 3.65	9 ms	30.06 (-30.00 (-30.03 (Bal						
6 7 8											
9											
11 12											
								_			

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1.3.1 Uplink CA

							CA_7C							
					Com	pination 100	RB + 100RB	(20MHz + 20	,					
	1	PC	C					so	:с	1				Apower
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	MPR (dB)	Measured (dBm)	Tune-up limi (dBm)
20	QPSK	2560	21350	1	0	20	QPSK	2540.2	21152	1	99	0	23.21	25.20
20	QPSK	2510	20850	1	0	20	QPSK	2529.8	21048	1	0	0	23.37	25.20
							CA 7C							
					Com	hination 756		(15MHz + 20	MH7)					
		PC	c		0011	bination ron	B T TOORD	sc					UL C	Apower
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	MPR (dB)	Measured (dBm)	Tune-up lim (dBm)
20	QPSK	2560	21350	1	0	15	QPSK	2542.9	21179	1	74	0	23.25	25.20
20	QPSK	2510	20850	1	0	15	QPSK	2527.1	21021	1	0	0	23.28	25.20
					0		CA_7C							
		PC	<u> </u>		Con	idination 75	RB + 75RB (15MHz + 15M so						Apower
	1	P.		1				30		1			ULC	Apower
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	MPR (dB)	Measured (dBm)	Tune-up limi (dBm)
15	QPSK	2562.5	21375	1	0	15	QPSK	2547.5	21225	1	0	0	23.36	25.20
15	QPSK	2507.5	20825	1	0	15	QPSK	2522.5	20975	1	74	0	23.22	25.20
					C	hingtion 75	CA_7C	15MHz + 10N	AL 1					
		PC	c		COIL	IDINATION 75	KD + 30KD (1510112 + 1010 SC	,				UL C	Apower
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	MPR (dB)	Measured (dBm)	Tune-up limi (dBm)
													. ,	. ,
15	QPSK	2562.5	21375	1	0	10	QPSK	2519.5	20945	1	0	0	23.23	25.20
							CA 7C							
					Com	bination 50F		(10MHz + 20	MHz)					
		PC	c		Com			sc					UL C/	Apower
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	MPR (dB)	Measured (dBm)	Tune-up limi (dBm)

							CA_38C							
					Com	bination 100	RB + 100RB	(20MHz + 20	MHz)					
		PC	00					so	C C				UL CA	power
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	MPR (dB)	Measured (dBm)	Tune-up limit (dBm)
20	QPSK	2580	37850	1	0	20	QPSK	2599.8	38048	1	0	0	23.52	25.20
20	QPSK	2610	38150	1	0	20	QPSK	2590.2	37952	1	0	0	23.57	25.20

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							CA_38C							
					Con	nbination 75	RB + 75RB (15MHz + 15M	/IHz)					
		P	cc					so	C C				UL CA	power
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	MPR (dB)	Measured (dBm)	Tune-up limit (dBm)
15	QPSK	2612.5	38175	1	0	15	QPSK	2597.5	38025	1	0	0	23.45	25.20
15	QPSK	2577.5	37825	1	0	15	QPSK	2592.5	37975	1	74	0	23.49	25.20

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							CA_41C							
					Com	pination 100	RB + 100RB	(20MHz + 20	,					
	1	PC	c	1	1		1	so	с С	1	1		UL CA	Apower
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	MPR (dB)	Measured (dBm)	Tune-up limit (dBm)
20	QPSK	2680	41490	1	0	20	QPSK	2660.2	41292	1	0	0	23.56	25.20
20	QPSK	2506	39750	1	0	20	QPSK	2525.8	39948	1	99	0	23.35	25.20
							CA_41C							
					Com	bination 75R	RB + 100RB (15MHz + 20I	,			r		
	r	PC	c				-	so	c	1			UL CA	Apower
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	MPR (dB)	Measured (dBm)	Tune-up limit (dBm)
20	QPSK	2680	41490	1	0	15	QPSK	2662.9	41319	1	0	0	23.45	25.20
20	QPSK	2506	39750	1	0	15	QPSK	2523.1	39921	1	74	0	23.43	25.20
					Com	bination 75	CA_41C RB + 75RB (15MHz + 15N						
		P			0011	ionation 70		SC					UL CA	Apower
	1													
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	MPR (dB)	Measured (dBm)	Tune-up limit (dBm)
15	QPSK	2682.5	41515	1	0	15	QPSK	2667.5	41365	1	0	0	23.44	25.20
15	QPSK	2503.5	39725	1	0	15	QPSK	2518.5	39875	1	74	0	23.37	25.20
							CA_41C							
					Com	bination 50R	RB + 100RB (10MHz + 20	,			1	1	
	r	PC	20					so	C		1		UL CA	Apower
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	MPR (dB)	Measured (dBm)	Tune-up limi (dBm)
20	QPSK	2680	41490	1	0	10	QPSK	2665.6	41346	1	0	0	23.51	25.20
20	QPSK	2506	39750	1	0	10	QPSK	2520.4	39894	1	49	0	23.49	25.20
							CA_41C							
					Con	ubination 50	RB + 75RB (10MHz + 15N	/IHz)					

					Con	hbination 50	RB + 75RB (*	10MHz + 15M	/IHz)					
		PC	c					so	c			MPR (dB)	UL CA	Apower
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset		Measured (dBm)	Tune-up limit (dBm)
15	QPSK	2682.5	41515	1	0	10	QPSK	2670.5	41395	1	0	0	23.41	25.20
15	QPSK	2503.5	39725	1	0	10	QPSK	2515.5	39845	1	49	0	23.33	25.20

							CA_41C							
					Con	nbination 25	RB + 100RB	(5MHz + 20M	/IHz)					
		PC	CC					so	C C				UL CA	power
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	MPR (dB)	Measured (dBm)	Tune-up limit (dBm)
20	QPSK	2680	41490	1	0	5	QPSK	2668.3	41373	1	0	0	23.45	25.20
20	QPSK	2506	39750	1	0	5	QPSK	2517.7	39867	1	24	0	23.52	25.20

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						C	A_41C(HPU	E)						
					Com	pination 100	RB + 100RB	(20MHz + 20	MHz)					
		PC	cc					so	C				UL CA	Apower
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	MPR (dB)	Measured (dBm)	Tune-up limit (dBm)
20	QPSK	2680	41490	1	0	20	QPSK	2660.2	41292	1	0	0	25.44	27.20
20	QPSK	2506	39750	1	0	20	QPSK	2525.8	39948	1	99	0	25.56	27.20
								-						
					C		A_41C(HPU	=) (15MHz + 20	AU I_\					
		P			Com	Dination 75F	(B + 100KB (151VIFIZ + 201 SC	,			1		
		PU						30					UL CA	Apower
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	MPR (dB)	Measured (dBm)	Tune-up limit (dBm)
20	QPSK	2680	41490	1	0	15	QPSK	2662.9	41319	1	0	0	25.40	27.20
20	QPSK	2506	39750	1	0	15	QPSK	2523.1	39921	1	74	0	25.47	27.20
							A_41C(HPU							
					Con	bination 75	RB + 75RB (15MHz + 15M				1	T	
		PC	сс С					so	с С		1	-	UL CA	Apower
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	MPR (dB)	Measured (dBm)	Tune-up limit (dBm)
15	QPSK	2682.5	41515	1	0	15	QPSK	2667.5	41365	1	0	0	25.33	27.20
15	QPSK	2503.5	39725	1	0	15	QPSK	2518.5	39875	1	0	0	25.21	27.20
							A_41C(HPU							
					Com	bination 50F	RB + 100RB (10MHz + 20	,			1		
		PC						50					ULCA	Apower
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	MPR (dB)	Measured (dBm)	Tune-up limit (dBm)
20	QPSK	2680	41490	1	0	10	QPSK	2665.6	41346	1	0	0	25.52	27.20
20	QPSK	2506	39750	1	0	10	QPSK	2520.4	39894	1	49	0	25.46	27.20
							A_41C(HPU							
					Con	nbination 50	кв + 75RB (10MHz + 15M	/IHZ)			1		
		PC	cc					so	c			MPR (dB)	UL CA	Apower

		PC	cc					sc	:C			MPR (dB)	ULCA	power
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset		Measured (dBm)	Tune-up limit (dBm)
15	QPSK	2682.5	41515	1	0	10	QPSK	2670.5	41395	1	0	0	25.34	27.20
15	QPSK	2503.5	39725	1	0	10	QPSK	2515.5	39845	1	0	0	25.12	27.20

					Com		A_41C(HPUE RB + 100RB	E) (5MHz + 20N	/Hz)					
		PC	c					so	C				UL CA	power
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	MPR (dB)	Measured (dBm)	Tune-up limit (dBm)
20	QPSK	2680	41490	1	0	5	QPSK	2668.3	41373	1	0	0	25.47	27.20
20	QPSK	2506	39750	1	0	5	QPSK	2517.7	39867	1	24	0	25.51	27.20

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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1.3.2 LTE Downlink CA specification

LTE Downlink 2CA conducted power table

HCC HCC <th></th> <th></th> <th></th> <th></th> <th></th> <th>1</th> <th>Two Compon</th> <th>ent Carrier N</th> <th>laximum Cor</th> <th>ducted Pow</th> <th>er</th> <th></th> <th></th> <th></th> <th></th> <th></th>						1	Two Compon	ent Carrier N	laximum Cor	ducted Pow	er					
Name Name <th< th=""><th></th><th></th><th></th><th>1</th><th>cc</th><th>-</th><th></th><th></th><th>1</th><th></th><th></th><th>c</th><th></th><th>Po</th><th>wer</th><th></th></th<>				1	cc	-			1			c		Po	wer	
Pricedity Density Protection Density Pricedity Sch 100 Pricedity Pricdity Pricdity Pricd			PCC (UL)			PCC (UL)	PCC (UL)	PCC (DL)				SCC (DL)				Configurations
IDE 100 1000 1	PCC Band				Modulation					SCC Band						Ū.
URD 20 1800 0.995 1 0 700 1800 1776 190 1200 1210	175.02		10700		0000	1	0	700		175.00		1100				CA 24 24
URB 28 1000 1660 OPK 1 0 700 180 1742 10 150 714 151 741 151 741 151 741 151 741 151 741 151 741 151 741 151 741 151 741 151 741 151 741 151 741 151 741																
11 2 18 38 00 05 10 100																_
11 0 100																
ITP2 20 1100 096 0 1 0 701 773																-
IFE2 20 1800 0PK 1 0 700 1800 1712 218 228 <th238< th=""> <th238< th=""> <th238< th=""></th238<></th238<></th238<>																_
11 12 13 0 130 1300 1410 121 212																
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IFE4 70 2017 1715 1715 1716 107 1715 1716 100 2400 2440 2447 C, A, A-N LITE44 201 2017 1715 0755 1715 0755 1715																
IFE4 70 2017 1715 1715 1716 107 1715 1716 100 2400 2440 2447 C, A, A-N LITE44 201 2017 1715 0755 1715 0755 1715																
Init 84 20 2017 122.5 (TF 84) 20 232.6 Title 232.7 232.6 CA, AFAA TIT 85 10 2000 844 OPSK 1 0 2000 889 Title 10 2000 200.7 CA, AFAA TIT 85 10 2000 844 OPSK 1 0 200.7 200.7 200.7 200.7 CA, AFAA TIT 87 20 2000 844 OPSK 1 0 <td>LTE B4</td> <td>20</td> <td>20175</td> <td>1732.5</td> <td>QPSK</td> <td>1</td> <td>0</td> <td>2175</td> <td>2132.5</td> <td>LTE B5</td> <td>10</td> <td>2450</td> <td>874</td> <td>23.95</td> <td>24.07</td> <td>CA_4A-5A</td>	LTE B4	20	20175	1732.5	QPSK	1	0	2175	2132.5	LTE B5	10	2450	874	23.95	24.07	CA_4A-5A
LTE 84 20 20175 173.5 0PK 1 0 217.5 171.82 UT 84 20 217.5 171.8 2330 731 2335 74.00 64.443 LTT 64 20 20175 172.3 0PK 1 0 2175 171.8 UT 84.5 114.6 20 1160 128.1 21.00 1160 128.1 21.00 1160 128.1 21.00 1160 128.1 21.00 116.0 128.1 21.00 1160 128.1 21.00 116.0 128.1 21.00 116.0 128.1 21.00 128.1 21.00 128.1 21.00 128.1 21.00 128.1 21.00 23.00 28.0 23.00	LTE B4	20	20175	1732.5	QPSK	1	0	2175	2132.5	LTE B7	20	3100	2655	24.00	24.07	CA_4A-7A
IT 164 20 20175 172.5 OPK 1 0 2170 212.5 1176 20 68586 2120 23.80 24.07 C 4.467A LT 165 10 2000 844 095K 1 0 2000 889 LT 162 20 100 100 21.81	LTE B4	20	20175	1732.5	QPSK	1	0	2175	2132.5	LTE B12	10	5130	741	23.79	24.07	CA_4A-12A
ITE84 20 2017 172.5 OPK 1 0 217 171.25 UTE71 20 6838 642 23.82 26.07 C6, Ab-7.1A UTE85 10 20000 844 OPK 1 0 2000 889 UTE45 20 13.03 26.06 C5, Sh-4.4 UTE85 10 20000 844 OPK 1 0 2200 889 UTE45 10 2000 844 C5, Sh-4.4 UTE85 10 20000 844 OPK 1 0 2000 889 UTE45 10 20.00 23.55 Ab.4.6 C4, Sh-5.4A UTE85 10 2000 23.55 OPK 1 0 3100 26.55 UTE 45 10 23.05 23.75 C4, TA-5.4 UTE87 20 21.05 23.55 OPK 1 0 3100 26.55 UTE 45 20 11.05 12.02 23.16 23.17	LTE B4	20	20175	1732.5	QPSK	1	0	2175	2132.5	LTE B13	10	5230	751	23.95	24.07	CA_4A-13A
ITTES 10 2600 844 OPSK 1 0 2600 889 UTE B 100 </td <td>LTE B4</td> <td>20</td> <td>20175</td> <td>1732.5</td> <td>QPSK</td> <td>1</td> <td>0</td> <td>2175</td> <td>2132.5</td> <td>LTE B66</td> <td></td> <td>66536</td> <td>2120</td> <td>23.89</td> <td>24.07</td> <td>CA_4A-66A</td>	LTE B4	20	20175	1732.5	QPSK	1	0	2175	2132.5	LTE B66		66536	2120	23.89	24.07	CA_4A-66A
ITTES 10 2000 844 OPK 1 0 2000 883 UTE 85 10 2010 2135 2134 2144 CA, 5A-34 ITTE 55 10 2000 844 OPK 1 0 2000 889 UTE 97 20 3000 2005 2140 2146 CA, 5A-30 ITTE 55 10 2000 844 OPK 1 0 2000 889 UTE 80 10 9205 2140 2146 CA, 5A-34 UTE 81 10 2000 844 OPK 1 0 2000 889 UTE 81 20 2165 2166 230 2135 2167 2136 2137 2137 CA, 5A-54 UTE 97 20 2100 2355 OPK 1 0 3100 255 UTE 81 210 2138 2137 CA, 7A-54 UTE 97 20 2100 734 OPK 1 0 5100						1										
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LTEPT 20 21100 2555 0PSK 1 0 3100 2655 UTE #5 10 2125 21325 2137 CA, 7A-65 UTE #7 20 21100 2555 0PSK 1 0 3100 2655 UTE 66 20 66536 1210 1380 23.33 23.73 CA, 7A-65 UTE #12 10 23660 704 0PSK 1 0 5060 734 UTE #2 20 1100 1980 23.43 23.88 CA, 12A-66 UTE #13 10 23206 704 0PSK 1 0 52.00 751 UTE 64 20 21.55 21.25 42.22 42.88 CA, 12A-66 UTE #13 10 232.00 782 0PSK 1 0 53.00 781 UTE 64 20 150.12 24.22 24.28 CA, 13A-6A UTE #14 10 233.00 793 0PSK 1 0 53.00 7																
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LTE 866 20 132072 1720 QP5K 1 0 66536 2120 LTE 866 20 66734 2139.8 23.37 23.76 CA_66C	-															_
	LTE B66	20	132572	1770	QPSK			67036		LTE B66	20	67234	2189.8	23.54	23.73	CA_66C

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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LTE Downlink 3CA conducted power table

							Thre	e Component	Carrier Max	mum Conducte	d Power_se	nsor off							
			PCC	2						SCO	1			SC	C 2		Po	wer	
PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	PCC (UL) PCC (UL) PCC (UL) PCC (DL) PCC (DL)			PCC (DL) Frequency [MHz]	SCC Band	SCC Bandwidth [MHz]	SCC (DL) Channel	SCC (DL) Frequency [MHz]	SCC Band	SCC Bandwidth [MHz]	SCC (DL) Channel	SCC (DL) Frequency [MHz]	LTE Tx.Power with DL CA active (dBm)	LTE Tx.Power with DL CA inactive (dBm)	Configurations	
LTE B41	20	39750	2506	QPSK	1	0	39750	2506	LTE B41	20	39948	2525.8	LTE B41	20	40146	2545.6	23.59	23.79	CA_41D
LTE B41	20	40620	2593	QPSK	1	0	40620	2593	LTE B41	20	40818	2612.8	LTE B41	20	40422	2573.2	23.23	23.66	CA_41D
LTE B41	20	41490	2680	QPSK	1	50	41490	2680	LTE B41	20	41094	2640.4	LTE B41	20	41292	2660.2	23.66	23.71	CA_41D
LTE B41_HPUE	20	39750	2506	QPSK	1	0	39750	2506	LTE B41	20	39948	2525.8	LTE B41	20	40146	2545.6	25.68	25.78	CA_41D
LTE B41_HPUE	20	40620	2593	QPSK	1	0	40620	2593	LTE B41	20	40818	2612.8	LTE B41	20	40422	2573.2	25.24	25.53	CA_41D
LTE B41_HPUE	20	41490	2680	QPSK	1	50	41490	2680	LTE B41	20	41094	2640.4	LTE B41	20	41292	2660.2	25.43	25.51	CA_41D
LTE B66	20	132072	1720	QPSK	1	0	66536	2120	LTE B66	20	66734	2139.8	LTE B66	20	66932	2159.6	23.46	23.76	CA_66D

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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LTE CA information

A)

The device supports downlink LTE Carrier Aggregation (CA) only. It supports a maximum of 3 carriers in the downlink. Other Release 10 features or higher features are not supported, including Enhanced SC-FDMA, Uplink MIMO or other antenna diversity configurations etc. All uplink communications are identical to the Release 8 Specifications.

The possible downlink LTE CA combinations supported by this device are as below tables per 3GPP TS 36.521-1 V16.6.0. The conducted power measurement results of downlink LTE CA are provided as above per 3GPP TS 36.521-1 V16.6.0. According to KDB 941225 D05A and RF exposure procedures in TCB workshop April 2018, the downlink LTE CA SAR test is not required.

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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B)

CA combination table

202 C4 CA 34-A4 No 30C 480 CA 860 No 202 A4 CA 2A-12A No Image: Calification of the second of the sec	Index	2CC	Restriction	Completely Covered by Measurement Superset	Index	3CC	Restriction	Completely Covered by Measurement Superset
202 01 CA AA-17A No No 202 04 CA 24-17A No Image: CA Image: CA <td< td=""><td>2CC #1</td><td>CA_2A-2A</td><td></td><td></td><td>3CC #62</td><td></td><td></td><td>No</td></td<>	2CC #1	CA_2A-2A			3CC #62			No
202 H4 CA 2A-12A No Image: Constraint of the c		-			3CC #63	CA_66D		No
202 66 CA 2A-13A No Image: Constraint of the c								
200 ff CA 201 ff CA AAAA No 201 ff CA AAAA No 201 ff CA AAAA No 201 ff CA AAAAA No 201 ff CA AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA		CA_2A-12A						
202 07 CA 2A-66A No Image: Constraint of the c		CA_2A-13A		No				
202 G8 CA 3A-71A No No 202 G80 CA 4A-AA No Image: Construction of the construction of	2CC #6	CA_2A-14A		No				
202 69 CA, 4A-2A No Image: Constraint of the second se		CA_2A-66A		No				
202 0110 CA, 4A-5A No Image: Construction of the second of the secon	2CC #8	CA_2A-71A		No				
202 0111 CA, 4A-7A No 202 0121 CA, 4A-7A No 202 0131 CA, 4A-7A No 202 0131 CA, 4A-7A No 202 0151 CA, 5A-7A No 202 0152 CA, 5A-7A No 202 0122 CA, 5A-7A No 202 0122 CA, 5A-6A No 202 012 CA, 7A-6A No <td>2CC #9</td> <td>CA_4A-2A</td> <td></td> <td>No</td> <td></td> <td></td> <td></td> <td></td>	2CC #9	CA_4A-2A		No				
202 H12 CA, 4A-7A No No 202 H13 CA, AA-7A No No 202 H14 CA, AA-7A No No 202 H14 CA, AA-7A No No 202 H15 CA, AA-7A No No 202 H15 CA, AA-7A No No 202 H15 CA, AA-7A No No 202 H16 CA, SA-7A No No 202 H17 CA, SA-7A No No 202 H16 CA, SA-7A No No 202 H17 CA, SA-7A No No 202 H17 CA, SA-7A No No 202 H17 CA, SA-7A No No 202 H2 CA, SA-7A No No 202 H2 CA, FA-4A No No 202 H2 CA, TA-4A No No 202 H2 CA, TA-4A No No 202 H2 CA, T2A-4A No No 202 H2 CA, T	2CC #10	CA_4A-4A		No				
202 013 CA.44-12A No Image: Constant of the second sec	2CC #11	CA_4A-5A		No				
202 0F44 CA. 4A-15A No Image: Constraint of the second	2CC #12	CA_4A-7A		No				
22C 415 CA 44-69A No Image: Constant of the second sec	2CC #13	CA_4A-12A		No				
202.0140 CA.44-71A No No 202.01471 CA.5A-2A No No 202.01471 CA.5A-3A No No 202.01471 CA.5A-3A No No 202.0140 CA.5A-3A No No 202.0140 CA.5A-3A No No 202.0141 CA.5A-3A No No 202.0142 CA.5A-3A No No 202.0142 CA.5A-3A No No 202.0142 CA.5A-3A No No 202.0142 CA.7A-4A No No No 202.0142 CA.7A-4A No No No 202.0142 CA.12A-4A No No No 202.0142 CA.12A-4A No No No 202.0142 CA.12A-4A No No No 202.0142 CA.13A-4A No No No 202.0143 CA.14A-2A No No No	2CC #14	CA_4A-13A		No				
2CC 171 CA_SA-2A No Image: Constraint of the second se	2CC #15	CA_4A-66A		No				
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2CC #19 CA 5A-5A No 2CC #20 CA 5A-7A No 2CC #21 CA 5A-7A No 2CC #21 CA 5A-7A No 2CC #21 CA 5A-41A No 2CC #22 CA 5A-66A No 2CC #23 CA 7A-6A No 2CC #24 CA 7A-6A No 2CC #25 CA 7A-6A No 2CC #26 CA 7A-6A No 2CC #27 CA 12A-2A No 2CC #28 CA 12A-2A No 2CC #29 CA 13A-6A No 2CC #31 CA 13A-6A No 2CC #32 CA 13A-6A No 2CC #33 CA 13A-6A No 2CC #33 CA 13A-6A No 2CC #33 CA 13A-6A No 2CC #34 CA 13A-6A No <		CA_5A-2A		No				
202 (42) CA 5A-7A No Image: Constant of the second sec	2CC #18	CA_5A-4A		No				
202 6271 CA_SA30A No 202 622 CA_SA40A No 202 622 CA_SA46A No 202 622 CA_SA46A No 202 623 CA_TA5A No 202 626 CA_TA5A No 202 627 CA_T2A4A No 202 628 CA_T2A4A No 202 629 CA_T2A4A No 202 629 CA_T2A4A No 202 629 CA_T2A4AA No 202 631 CA_T3A4AA No 202 633 CA_T3A4AA No 202 633 CA_T3A4AA No 202 633 CA_T4A430A No 202 633 CA_T4A430A No 202 638 CA_T4A46A No 202 638 CA_25A-25A No 202 643 CA_25A-25A No	2CC #19	CA_5A-5A		No				
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2CC #31 CA_13A-4A No 2CC #32 CA_13A-6A No 2CC #33 CA_14A-3Q No 2CC #34 CA_14A-3QA No 2CC #33 CA_14A-6A No 2CC #35 CA_14A-6A No 2CC #36 CA_25A-25A No 2CC #37 CA_25A-25A No 2CC #38 CA_25A-25A No 2CC #39 CA_26A-25A No 2CC #39 CA_26A-35A No 2CC #41 CA_30A-5A No 2CC #41 CA_30A-5A No 2CC #41 CA_30A-6A No 2CC #42 CA_30A-6A No 2CC #44 CA_41A-41A No 2CC #44 CA_41A-41A No 2CC #44 CA_66A-7A No 2CC #44 CA_66A-7A N	2CC #29	CA_12A-66A		No				
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2CC #34 CA_14A-30A No No 2CC #35 CA_14A-66A No 2CC #35 CA_25A-25A No 2CC #37 CA_25A-26A No 2CC #38 CA_25A-26A No 2CC #38 CA_26A-25A No 2CC #38 CA_26A-25A No 2CC #39 CA_26A-25A No 2CC #40 CA_30A-4A No 2CC #41 CA_30A-4A No 2CC #41 CA_30A-4A No 2CC #41 CA_41A-41A No 2CC #42 CA_41A-41A No 2CC #44 CA_41A-41A No 2CC #44 CA_66A-7A No 2CC #44 CA_66A-7A No 2CC #44 CA_66A-7A No 2CC #45 CA_66A-7A No 2CC #46 CA_66A-7A	2CC #32	CA_13A-66A		No				
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2CC #45 CA_66A-2A No Image: Constraint of the second s	2CC #43			No				
2CC #46 CA_66A-5A No Image: Control of the state	2CC #44	CA_41A-41A		No				
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2CC #48 CA_66A-12A No Image: CA_66A-13A No 2CC #49 CA_66A-13A No Image: CA_66A-13A No Image: CA_66A-13A Image: CA_65A-13A Image: CA_65A-13A-13A Image: CA_65A-13A Image: CA_65A-13A Image: CA_65A-13A Image: CA_65A-13A-13A Image: CA_65A-13A Image: CA_65A-13A-13A Image: CA_65A-13A Image: CA_65A-13A-13A	2CC #46			No				
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2CC #51 CA_66A-30A No Image: Control of the state of the stat	2CC #49			No				
2CC #52 CA_66A-66A No No 2CC #53 CA_66A-71A No 2CC #55 CA_71A-4A No 2CC #55 CA_71A-66A No 2CC #55 CA_71A-66A No 2CC #55 CA_71A-66A No 2CC #56 CA_2C No 2CC #57 CA_5B No 2CC #58 CA_38C No 2CC #59 CA_41C No	2CC #50	CA_66A-14A		No				
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2CC #59 CA_41C No 2CC #60 CA_41C No	2CC #58			No				
2CC #60 CA_41C No	2CC #59	CA_41C		No				
				No				
	2CC #61	CA_66C		No				1

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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Note:

1) The channel spacing and aggregated channel bandwidth for CA are identical to the associated specification in 3GPP TS 36.521-1 V16.6.0.

2) The reference test frequencies for CA refers to 3GPP TS 36.508 V16.6.0

3) Testing is not required in bands or modes not intended/allowed for US operation

4) Based on TCB workshop April 2018, only indicate "No" in CA combination table need power measurement

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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1.4 Test Environment

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

1.5 Operation Description

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

For WLAN, using chipset specific software to control the EUT, and makes it transmit in maximum power.

The EUT is set to maximum power level during all tests, and at the beginning of each test the battery is fully charged.

WWAN / WLAN

Notebook mode

SAR is measured with display screen open at 90 degree and bottom side of keyboard touch against the flat phantom.

Note:

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

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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Sub-test	βι	βa	βa (SF)	βc/βa	β _{hs} ^(J)	CM (dB) ⁽²⁾
1	2/15	15/15	64	2/15	4/15	0.0
2	12/15(3)	15/15(3)	64	12/15(3)	24/15	1.0
3	15/15	8/15	64	15/8	30/15	1.5
4	15/15	4/15	64	15/4	30/15	1.5

Note 2: CM = 1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$.

Note 3: For subtest 2 the β₀/β₄ ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting

the signaled gain factors for the reference TFC (TF1, TF1) to $\beta_e = 11/15$ and $\beta_d = 15/15$.

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

Sub- test	β _c	β _d	β _d (SF)	β_c/β_d	$\beta_{hs}^{(1)}$	β _{ec}	$\beta_{\rm ed}$	β _{ed} (SF)	β _{ed} (codes)	CM ⁽²⁾ (dB)	MPR (dB)	AG ⁽⁴⁾ Index	E- TFCI
1	11/15 ⁽³⁾	15/15 ⁽³⁾	64	11/15 ⁽³⁾	22/15	209/225	1039/225	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	$\begin{array}{c} \beta_{ed1}:47/15\\ \beta_{ed2}:47/15 \end{array}$	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 ⁽⁴⁾	15/15 ⁽⁴⁾	64	15/15 ⁽⁴⁾	30/15	24/15	134/15	4	1	1.0	0.0	21	81
Note 1: Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 8 \Leftrightarrow A_{hs} = \beta_{hs}/\beta_c = 30/15 \Leftrightarrow \beta_{hs} = 30/15 \ast \beta_c$. Note 2: CM = 1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$. For all other combinations of DPDCH, DPCCH, HS- DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.													
Note 3: For subtest 1 the β_c/β_d ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signaled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 10/15$ and $\beta_d = 15/15$.													
Note 4							he measurem $\beta_c = 14/15$			rF0) is ac	hieved b	y setting	the

Note 5: Testing UE using E-DPDCH Physical Layer category 1 Sub-test 3 is not required according to TS 25.306 Table 5.1g. Note 6: Bed cannot be set directly; it is set by Absolute Grant Value.

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

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∙Sub- test∂	β _c ₊≀ (Note3)₊≀	βd⁴⊃	β _{HS} ₊ (Note1)₊∂	β _{ec} ₊ ₄∂	β _{ed} ⊎ (2xSF2) ↓ (Note 4)↓	β _{ed} ₊/ (2xSF4)₊/ (Note 4)₊/	CM↩ (dB)↩ (Note 2)↩	MPR.↓ (dB),↓ (Note 2),↓	AG↔ Index↔ (Note 4)∻		E-TFCI (boost)↔
• 1 <i>⊷</i>	1₽	0₄⊃	30/15₽	30/15₽	βed1: 30/15↔ βed2: 30/15↔	βed3: 24/15+ βed4: 24/15+ ³	3.5₽	2.5₽	14√	105⊷	105₽
Note 1 Note 2 Note 3 Note 4 Note 5	: CM = : DPD : βed Ca : All th DPD	= 3.5 a CH is an no e sub CH ca	and the MF not config t be set dir -tests requ ategory 7.1	PR is bas ured, the ectly; it is uire the U E-DCH T	with $\beta_{hs} = 30/15$ ed on the relative refore the β_0 is so s set by Absolute E to transmit 2SI TI is set to 2ms ⁻¹ allocated. The UI	e CM difference, et to 1 and βa = Grant Value. F2+2SF4 16QAI ITI and E-DCH 1	0 by defau M EDCH a table index	lt.↩ nd they a : = 2. To s	pply for l support th	nese E-DO	

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

5. UMTS: The 3G SAR test reduction procedure is applied to DC-HSDPA with 12.2 kbps RMC as the primary mode. Power is measured for DC-HSDPA according to the H-Set 12, FRC configuration in Table C.8.1.12 of 3GPP TS 34.121-1 to determine SAR test reduction. A primary and a secondary serving HS-DSCH Cell are required to perform the power measurement and for the results to be acceptable. Since the maximum output power in a secondary mode (DC-HSDPA) is $\leq \frac{1}{4}$ dB higher than the primary mode (WCDMA), SAR measurement is not required for the secondary mode (DC-HSDPA). The following tests were completed according to procedures in section 7.3.13 of 3GPP TS 34.108 v9.5.0. A summary of these setting are illustrated below:

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

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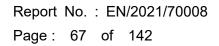




Table C.8.1.12: Fixed Reference	Channel	H-Set 12
---------------------------------	---------	----------

•		Parameter.	Unit	Value↩	
•	Nominal Avg. In	if. Bit Rate⊮	kbps₽	60↩	
•	Inter-TTI Distan	ce₽	TTI's₽	1₽	
•	Number of HAR	Proces	6₽		
			ses₽	04	
-	Information Bit I	Payload (N _{INF})୶	Bits↩	120₽	
•	Number Code E	Blocks₽	Blocks	1₽	
	Binary Channel		Bits₽	960₽	
•	Total Available	SML's in UE∉	SML's↩	19200₽	
•	Number of SML	's per HARQ Proc.₽	SML's∉	3200↩	
	Coding Rate		ę.	0.15₽	
•	Number of Phys	sical Channel Codes	Codes.	1₽	
•	Modulation.		сı	QPSK₽	
-	Note 1: The	RMC is intended to be used f	or DC-HSE	PA	
		e and both cells shall transmi		ical	
		meters as listed in the table.+			
		mum number of transmission			
		nsmission is not allowed. The		incy and	
L	cons	tellation version 0 shall be us	ed.₽		
Inf. Bit Payload	120				
CRC Addition	120	24 CRC			
Code Block	144				
Segmentation					
Turbo-Encoding (R=1/3)		432			12 Tail Bits
1st Rate Matching	3	432			
RV Selection		960			
ity selection	L				
Physical Channel		1			
Segmentation	960				

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

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

Sub-test	βι	βa	βa (SF)	βc/βa	β _{hs} ^(J)	CM (dB) ⁽²⁾
1	2/15	15/15	64	2/15	4/15	0.0
2	12/15(3)	15/15(3)	64	12/15(3)	24/15	1.0
3	15/15	8/15	64	15/8	30/15	1.5
4	15/15	4/15	64	15/4	30/15	1.5

Note 2: CM = 1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$.

Note 3: For subtest 2 the Bo/Ba ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signaled gain factors for the reference TFC (TF1, TF1) to $\beta_e = 11/15$ and $\beta_d = 15/15$.

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LTE: 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 \leq 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 \leq 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.

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

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

• TDD LTE was tested at highest duty factor using UL-DL configuration 0 with 6 UL subframes and 2 special subframes using extended cyclic prefix only and special subframe configuration 6. SAR tests were performed at maximum output power and worst-case transmission duty factor in extended cyclic prefix. Per 3GPP 36.211 Section 4.2, the duty factor for UL-DL configuration 0/special subframe configuration 6 using extended cyclic prefix is 0.633.

According to KDB 941225 D05, SAR testing for TDD LTE must be tested using a fixed periodic duty factor according to the highest transmission duty factor implemented for the device and supported by the defined 3GPP TDD LTE configurations. The TDD-LTE of this device supports frame structure type 2 defined in 3GPP TS 36.211 section 4.2, and the frame structure configuration can be tabulated as below.

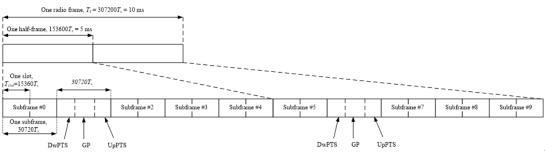


Figure 4.2-1: Frame structure type 2 (for 5 ms switch-point periodicity),

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Ϊ.	Special		ormal cyclic prefix in	downlink	Extended cyclic prefix in downlink.					
Γ	subframe	DwPTS-	Up	PTS-	DwPTS-	UpPTS				
	configuratio n₀	c.	Normal cyclic prefix↓ in uplinkผ	prefix↓ prefix↓ ↩		Normal cyclic prefix in uplink⊷	Extended cyclic prefix in uplink⊷			
-	0,	6592 · T _s ÷			7680 · T _s +					
-	1 @	19760 • T _s +			20480 · T _s					
	2₽	$21952 \cdot T_s$			$23040 \cdot T_s$	$(1+X) \cdot 2192 \cdot T_{s} \cdot $	$(1+X)\cdot 2560\cdot T_{s}$			
	∠ ⇔	ę	$(1+X)\cdot 2192\cdot T_{s} \approx$	$(1+X) \cdot 2560 \cdot T_{s} \cdot T_{s}$	¢					
	3₽	$24144 \cdot T_s$			$25600 \cdot T_s$					
		ę			ą					
-	4↩	26336 · T _s			7680 · T _s +					
	5₽	6592 · T _s +			$20480 \cdot T_s$					
Ē	0,0	0372 1 _S +			÷	$(2+X)\cdot 2192\cdot T_s$	$(2+X)\cdot 2560\cdot T_{s}$			
	6 ₽	19760 · <i>T</i> s + ²			$23040 \cdot T_s$	c.	C ₄			
L	0.		$(2 + \mathbf{X}) 2102 T$	$(2 \mid \mathbf{X})$ 2560 T	¢					
	7₽	$21952 \cdot T_{s} \qquad (2+X) \cdot 2192 \cdot T_{s} \qquad (2+X)$	$(2+X)\cdot 2192\cdot I_{s}$	$(2+X)\cdot 2500\cdot I_{s}$	12800 · T. «					
L			47	s						
-	8₽	24144 · T _s ↔			_ \$	-47	-47			
\vdash										
•	9⊷	$13168 \cdot T_{s} \approx$			-+2	-+7	-47			

Table 4.2-1: Configuration of special subframe (lengths of DwPTS/GP/UpPTS)-

Table 4.2-2: Uplink-downlink configurations.

 Uplink-downlink - 		Downlink-to-Uplink 🖉	Subframe number.									
	configuration.	Switch-point periodicity.	0 €	1₽	2↩	3₽	4 °	5₽	6 ₽	7 ₽	8 0	9₽
-	0,0	5 <u>ms</u> ₂	D₽	S₽	U₽	U٩	۵	D₽	S₽	D٩	U₽	U٩
-	1₽	5 <u>ms</u> ₂	D₽	S₽	U٩	U٩	D₽	D₽	S₽	U٩	U₽	D₽
-	2∻	5 <u>ms</u> ₂	D⇔	S₽	U₽	D₽	D₽	D₽	S₽	U٩	D₽	D₽
-	3₽	10 <u>ms</u> ₂	D₽	S₽	U₽	U٩	۵	D₽	D₽	D٩	D₽	De
-	4₽	10 ms.	D₽	S₽	U٩	U₽	D₽	D₽	D₽	D₽	D₽	D₽
-	5⊷	10 ms.	D₽	S₽	U٩	D₊ῦ	D₽	D₽	D₽	D₽	D₽	D₽
	6⊷	5 <u>ms</u> ₂	D₽	S₽	U⇔	U٩	U₽	D₊₂	S₽	U٩	U₽	D⇔

Considering the highest transmission duty cycle, TDD LTE power class 3 was tested using Uplink-Downlink configuration 0 with 6 uplink subframe and 2 special subframe. The special subframe was set to special subframe configuration 6 using extended cyclic prefix uplink. Therefore, SAR testing for TDD LTE was measured at the maximum output power with highest transmission duty cycle of 63.33%. Also, TDD LTE power class 2 was tested using Uplink-Downlink configuration 1 with 4 uplink subframe and 2 special subframe. The special subframe was set to special subframe configuration 6 using extended cyclic prefix uplink. Therefore, SAR testing for TDD LTE was measured at the maximum output power with highest transmission duty cycle of 43.33%

7. LTE downlink CA: The device supports a maximum of 3 carriers in the downlink.

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All uplink communications are identical to the Release 8 specifications. Uplink maximum output power is measured with downlink carrier aggregation active, only for the channel with highest measured maximum output power when downlink carrier aggregation is inactive, to confirm that when downlink carrier aggregation is active uplink maximum output power remains within the specified tune-up tolerance limits and not more than ¹/₄ dB higher than the maximum output power measured when downlink carrier aggregation inactive. The downlink channels selected to perform the uplink power measurement must satisfy 3GPP channel spacing (5.4.1A of 3GPP TS 36.521 or equivalent) and channel bandwidth (5.4.2A) requirements. The nominal channel spacing is determined by [BW1 + BW2 – 0.1*|BW1 – BW2|]/2 MHz, where BW1 and BW2 are the channel bandwidths of the CC in a 2-CC aggregation configuration. The downlink PCC channel should be paired with the uplink channel according to normal configurations, as if there is no carrier aggregation. The downlink SCC should be adjacent to the PCC and remain within the downlink transmission band for contiguous intra-band CA. For non-contiguous intra-band CA, the SCC should be selected to provide maximum separation from the PCC and must remain fully within the downlink transmission band. For inter-band CA, the SCC should be near the middle of its transmission band. When downlink carrier aggregation is active uplink maximum output power remain within the specified tune-up tolerance limits and not more than 1/4 dB higher than the maximum output power measured when downlink carrier aggregation inactive, so SAR evaluation is not required for downlink carrier aggregation.

8. LTE intra-band UL CA (contiguous): The device supports LTE intra-band contiguous 2 UL CA for CA 7C, CA 38C, CA 41C. The maximum output power is measured for each UL CA configuration for the required test channels. UL PCC configuration is determined by the required test channel. SCC and subsequent CCs are added alternatively to either side of the PCC or within the transmission band for channels at the ends of a frequency band. SAR for UL CA is required in highest standalone test position and frequency band combination. Since the maximum output for UL CA is \leq standalone LTE mode (without CA), PCC is configured according to the highest standalone SAR configuration tested, SCC and subsequent CCs are configured according to procedures used for power

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measurement and parameters (BW, RB etc.) similar to that used for the PCC.

9. General: 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 ≤ 100 when the transmission band is MHz. According W/kg, to KDB865664D01v01r04, SAR measurement variability must be assessed for each frequency band. When the original highest measured SAR is \geq 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 \geq 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).

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1.6 The SAR Measurement System

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

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

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

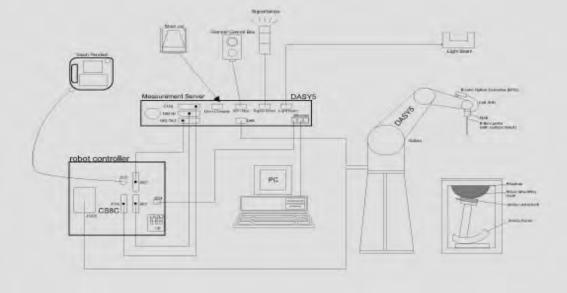


Fig. a The block diagram of SAR system

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

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1.7 System Components

EX3DV4 E-Field Probe

Construction	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to
Calibration	organic solvents, e.g., DGBE) Basic Broad Band Calibration in air Conversion Factors (CF) for HSL 750/835/1750/1900/2300/2450/2600 /5200/5300/5600/5800MHz Additional CF for other liquids and frequencies upon request
Frequency	10 MHz to > 6 GHz
Directivity	± 0.3 dB in HSL (rotation around probe axis) ± 0.5 dB in tissue material (rotation normal to probe axis)
Dynamic	10 μW/g to > 100 mW/g
Range	Linearity: ± 0.2 dB (noise: typically < 1 μW/g)
Dimensions	Tip diameter: 2.5 mm
Application	High precision dosimetric measurements in any exposure scenario
	(e.g., very strong gradient fields). Only probe which enables compliance testing for frequencies up to 6 GHz with precision of better 30%.

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

DEVICE HOLDER

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

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1.8 SAR System Verification

The microwave circuit arrangement for system verification is sketched in Fig. b. The daily system accuracy verification occurs within the flat section of the SAM phantom. A SAR measurement was performed to see if the measured SAR was within +/- 10% from the target SAR values. These tests were done at 750/835/1750/1900/2300/2450/ 2600/5200/5300/5600/5800MHz. The tests were conducted on the same days as the measurement of the DUT. The obtained results from the system accuracy verification are displayed in the table 1 (SAR values are normalized to 1W forward power delivered to the dipole). During the tests, the liquid depth above the ear reference points was \geq 15 cm \pm 5 mm (frequency \leq 3 GHz) or \geq 10 cm \pm 5 mm (frequency > 3 G Hz) in all the cases. It is seen that the system is operating within its specification, as the results are within acceptable tolerance of the reference values.

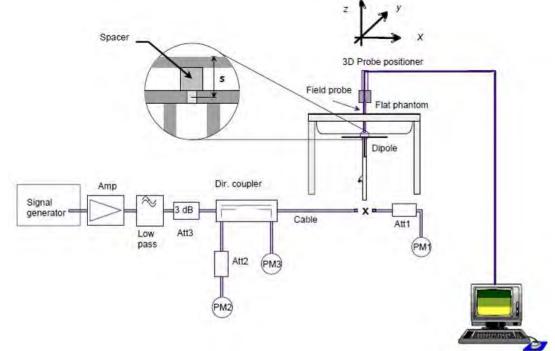


Fig. b The block diagram of system verification

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Validation Kit	S/N	-	uency Hz)	1W Target SAR-1g (mW/g)	pin=250mW Measured SAR-1g (mW/g)	Measured SAR-1g normalized to 1W (mW/g)	Deviation (%)	Measured Date
D750V3	1015	750	Head	8.48	2.10	8.40	-0.94%	Aug. 01, 2021
D750V3	1015	750	Head	8.48	2.12	8.48	0.00%	Aug. 02, 2021
D835V2	4d063	835	Head	9.52	2.38	9.52	0.00%	Aug. 03, 2021
D1750V2	1008	1750	Head	36.00	8.94	35.76	-0.67%	Aug. 04, 2021
D1900V2	5d173	1900	Head	39.30	9.72	38.88	-1.07%	Aug. 05, 2021
D2300V2	1023	2300	Head	49.00	12.10	48.40	-1.22%	Aug. 06, 2021
D2450V2	727	2450	Head	53.90	13.70	54.80	1.67%	Aug. 08, 2021
D2600V2	1005	2600	Head	56.90	13.80	55.20	-2.99%	Aug. 06, 2021
D2600V2	1005	2600	Head	56.90	13.90	55.60	-2.28%	Aug. 07, 2021
Validation Kit	S/N		uency Hz)	1W Target SAR-1g (mW/g)	Pin=100mW Measured SAR-1g (mW/g)	Measured SAR-1g normalized to 1W (mW/g)	Deviation (%)	Measured Date
		5200	Head	77.9	7.52	75.2	-3.47%	Aug. 09, 2021
D5GHzV2	1022	5300	Head	80.4	7.79	77.9	-3.11%	Aug. 09, 2021
	1023	5600	Head	83.9	8.24	82.4	-1.79%	Aug. 10, 2021
		5800	Head	80.9	7.90	79	-2.35%	Aug. 10, 2021

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1.9 Tissue Simulant Fluid for the Frequency Band

The dielectric properties for this Head-simulant fluid were measured by using the SPEAG Dielectric Assessment Kit (DAKS-3.5)

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

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

11111	течиспоу	-00/01	- 10 01	$n \pm 0$ mm	Incque	/10y - 00)	uunng	
Tissue Type	Measurement Date	Measured Frequency (MHz)	Target Dielectric Constant, εr	Target Conductivity, σ (S/m)	Measured Dielectric Constant, εr	Measured Conductivity, σ (S/m)	% dev εr	% dev σ
		673	42.342	0.887	42.628	0.872	0.68%	-1.73%
		680.5	42.304	0.888	42.581	0.873	0.66%	-1.68%
		688	42.264	0.889	42.517	0.874	0.60%	-1.64%
	Aug. 01 0001	704	42.181	0.890	42.378	0.875	0.47%	-1.66%
	Aug, 01. 2021	707.5	42.162	0.890	42.355	0.879	0.46%	-1.24%
		711	42.144	0.890	42.321	0.881	0.42%	-1.05%
		750	41.942	0.893	42.002	0.909	0.14%	1.75%
		782	41.775	0.896	41.732	0.929	-0.10%	3.70%
		709	42.155	0.890	42.345	0.879	0.45%	-1.26%
		710	42.149	0.890	42.344	0.881	0.46%	-1.04%
	Aug, 02. 2021	711	42.144	0.890	42.332	0.883	0.45%	-0.82%
	-	750	41.942	0.893	42.118	0.914	0.42%	2.31%
		793	41.718	0.897	41.626	0.935	-0.22%	4.27%
		821.5	41.570	0.899	41.695	0.877	0.30%	-2.44%
	Aug, 03. 2021	826.4	41.545	0.899	41.677	0.885	0.32%	-1.59%
		829	41.531	0.900	41.651	0.891	0.29%	-0.95%
		831.5	41.518	0.900	41.626	0.894	0.26%	-0.64%
Head		835	41.500	0.900	41.605	0.901	0.25%	0.11%
Tieau		836.5	41.492	0.900	41.596	0.904	0.25%	0.43%
		841.5	41.500	0.907	41.581	0.912	0.20%	0.55%
		844	41.500	0.910	41.561	0.915	0.15%	0.58%
		846.6	41.500	0.912	41.551	0.918	0.12%	0.60%
		1720	40.126	1.354	39.542	1.317	-1.46%	-2.71%
		1732.5	40.107	1.361	39.527	1.326	-1.45%	-2.57%
	Aug, 04. 2021	1745	40.087	1.368	39.511	1.334	-1.44%	-2.50%
		1750	40.079	1.371	39.495	1.338	-1.46%	-2.41%
		1770	40.047	1.383	39.449	1.352	-1.49%	-2.22%
		1852.4	40.000	1.400	39.318	1.411	-1.71%	0.79%
		1860	40.000	1.400	39.312	1.417	-1.72%	1.21%
		1880	40.000	1.400	39.297	1.431	-1.76%	2.21%
	Aug, 05. 2021	1882.5	40.000	1.400	39.295	1.433	-1.76%	2.36%
		1900	40.000	1.400	39.282	1.445	-1.80%	3.21%
		1905	40.000	1.400	39.279	1.449	-1.80%	3.50%
		1907.6	40.000	1.400	39.278	1.451	-1.81%	3.64%
	Aug, 06. 2021	2300	39.467	1.667	39.657	1.679	0.48%	0.74%
	Aug, 00. 2021	2310	39.449	1.676	39.638	1.687	0.48%	0.68%

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Tissue Type	Measurement Date	Measured Frequency (MHz)	Target Dielectric Constant, εr	Target Conductivity, σ (S/m)	Measured Dielectric Constant, εr	Measured Conductivity, σ (S/m)	% dev ɛr	% dev σ
		2402	39.285	1.757	38.374	1.771	-2.32%	0.80%
		2412	39.268	1.766	38.341	1.779	-2.36%	0.74%
		2437	39.223	1.768	38.277	1.801	-2.41%	1.87%
	Aug, 08. 2021	2441	39.216	1.792	38.272	1.804	-2.41%	0.67%
		2450	39.200	1.800	38.254	1.813	-2.41%	0.72%
		2457	39.188	1.806	38.241	1.821	-2.42%	0.83%
		2480	39.162	1.833	38.198	1.843	-2.46%	0.55%
		2510	39.124	1.865	38.951	1.874	-0.44%	0.46%
		2535	39.092	1.893	38.934	1.896	-0.40%	0.17%
		2560	39.060	1.920	38.854	1.917	-0.53%	-0.16%
	Aug, 06. 2021	2580	39.035	1.942	38.792	1.933	-0.62%	-0.45%
		2595	39.015	1.958	38.767	1.945	-0.64%	-0.67%
		2600	39.009	1.964	38.764	1.949	-0.63%	-0.75%
		2610	38.996	1.975	38.742	1.957	-0.65%	-0.89%
		2506	39.129	1.861	38.953	1.871	-0.45%	0.53%
Head		2549.5	39.073	1.909	38.901	1.909	-0.44%	0.02%
neau	Aug 07 2021	2593	39.018	1.956	38.769	1.943	-0.64%	-0.66%
	Aug, 07. 2021	2600	39.009	1.964	38.752	1.958	-0.66%	-0.29%
		2636.5	38.963	2.003	38.683	1.978	-0.72%	-1.27%
		2680	38.907	2.051	38.611	2.014	-0.76%	-1.80%
		5190	35.997	4.645	35.932	4.496	-0.18%	-3.21%
		5200	35.986	4.655	35.909	4.509	-0.21%	-3.14%
	Aug, 09. 2021	5230	35.951	4.686	35.781	4.551	-0.47%	-2.88%
	Aug, 09. 2021	5270	35.906	4.727	35.696	4.608	-0.58%	-2.52%
		5300	35.871	4.758	35.627	4.651	-0.68%	-2.25%
		5310	35.860	4.768	35.594	4.666	-0.74%	-2.14%
		5530	35.609	4.993	35.234	4.958	-1.05%	-0.70%
		5600	35.529	5.065	35.106	5.039	-1.19%	-0.51%
	Aug, 10. 2021	5610	35.517	5.075	35.052	5.051	-1.31%	-0.47%
	Aug, 10. 2021	5690	35.426	5.157	34.889	5.151	-1.52%	-0.12%
		5775	35.329	5.244	34.742	5.265	-1.66%	0.40%
		5800	35.300	5.270	34.685	5.315	-1.74%	0.85%

Table 2. Dielectric Parameters of Tissue Simulant Fluid

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_				Ingre	dient			-
Frequency (MHz)	Mode	DGMBE	Water	Salt	Preventol D-7	Cellulose	Sugar	Total amount
750	Head		532.98 g	18.3 g	2.4 g	3.2 g	766 g	1.3L(Kg)
850	Head		532.98 g	18.3 g	2.4 g	3.2 g	766 g	1.3L(Kg)
1750	Head	444.52 g	552.42 g	3.06 g		_	_	1.0L(Kg)
1900	Head	444.52 g	552.42 g	3.06 g		_	_	1.0L(Kg)
2300	Head	550ml	450ml	_		_	_	1.0L(Kg)
2450	Head	550ml	450ml	_	_	_	_	1.0L(Kg)
2600	Head	550ml	450ml	—	—	—	—	1.0L(Kg)

The composition of the body tissue simulating liquid:

Body 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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1.10 Evaluation Procedures

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

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

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

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

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

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

The first procedure is an extrapolation (incl. Boundary correction) to get the points

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between the lowest measured plane and the surface. The next step uses 3D interpolation to get all points within the measured volume. In the last step, a 1g cube is placed numerically into the volume and its averaged SAR is calculated. This cube is the moved around until the highest averaged SAR is found. If the highest SAR is found at the edge of the measured volume, the system will issue a warning: higher SAR values might be found outside of the measured volume. In that case the cube measurement can be repeated, using the new interpolated maximum as the center.

1.11 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:

1.11.1 Transfer Calibration with Temperature Probes

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

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

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

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

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- 1. The temperature gradient is not directly measurable but must be evaluated from temperature measurements at different time steps. Special precaution is necessary to avoid measurement errors caused by temperature gradients due to energy equalizing effects or convection currents in the liquid. Such effects cannot be completely avoided, as the measured field itself destroys the thermal equilibrium in the liquid. With a careful setup these errors can be kept 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 (~ 2% for c; much better for ρ), there is no standard for the measurement of the conductivity. Depending on the method and liquid, the error can well exceed ±5%.
- 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 ±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 ±7-9% (RSS) when not, which is in good agreement with the estimates given in [2].

1.11.2 Calibration with Analytical Fields

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

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

- 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.

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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.

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- K. Jokela, P. Hyysalo, and L. Puranen, \Calibration of specific 3. 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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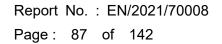
1.12 Test Standards and Limits

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 an 10 grams of tissue (defined as a tissue volume in the shape of a cube).
- 2. Occupational/Controlled limits apply when persons are exposed as a consequence of their employment provided these persons are fully aware of and exercise control over their exposure. Awareness of exposure can be accomplished by use of warning labels or by specific training or education through appropriate means, such as an RF safety program in a work environment.
- Limits for General Population/Uncontrolled exposure: 0.08 W/kg as averaged 3. over the whole-body and spatial peak SAR not exceeding 1.6 W/kg as averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the hands, wrists, feet and ankles where the spatial peak SAR shall not exceed 4 W/kg, as averaged over any 10 grams of

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tissue (defined as a tissue volume in the shape of a cube). General Population/Uncontrolled limits apply when the general public may be exposed, or when persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or do not exercise control over their exposure. Warning labels placed on consumer devices such as cellular telephones will not be sufficient reason to allow these devices to be evaluated subject to limits for occupational/controlled exposure in paragraph (d)(1) of this section. (Table 4.)

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

Table 4. RF exposure limits

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

Notebook mode

Band	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	0	AR over 1g ⁄kg)	Plot page
								Measured	Reported	
	Bottom Surface	0	9262	1852.4	25.7	24.56	130.02%	0.594	0.772	-
WCDMA Band II	Bottom Surface	0	9400	1880	25.7	24.38	135.52%	0.595	0.806	-
	Bottom Surface	0	9538	1907.6	25.7	24.21	140.93%	0.660	0.930	97
	Bottom Surface	0	4132	826.4	25.2	24.22	125.31%	0.270	0.338	-
WCDMA Band V	Bottom Surface	0	4183	836.6	25.2	24.16	127.06%	0.271	0.344	99
	Bottom Surface	0	4233	846.6	25.2	24.21	125.60%	0.268	0.337	-

WCDMA Band II / Band V

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Mode	Mode Bandwidth (MHz) Modulation RB Size		RB Size	RB start	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged S (W/	kg)	Plot page											
												Measured	Reported												
					Bottom Surface	0	18700	1860	25.7	24.03	146.89%	0.539	0.792	-											
		QPSK	1 RB	0	Bottom Surface	0	18900	1880	25.7	23.95	149.62%	0.546	0.817	-											
LTE Band 2	20MHz				Bottom Surface	0	19100	1900	25.7	23.93	150.31%	0.547	0.822	100											
			50 RB	0	Bottom Surface	0	18700	1860	24.7	22.97	148.94%	0.423	0.630	-											
			100	RB	Bottom Surface	0	18700	1860	24.7	22.92	150.66%	0.419	0.631	-											
					Bottom Surface	0	20050	1720	25.7	24.16	142.56%	0.241	0.344	-											
LTE Band 4	20MHz	QPSK	1 RB	0	Bottom Surface	0	20175	1732.5	25.7	24.07	145.55%	0.285	0.415	-											
LIE Band 4	ZUIVIHZ	QPSK	50 RB	49	Bottom Surface	0	20300 20050	1745 1720	25.7 24.7	24.01 23.11	147.57% 144.21%	0.330	0.487	101											
				RB	Bottom Surface Bottom Surface	0	20050	1720	24.7	23.11	144.21%	0.192	0.277	-											
			100	KD	Bottom Surface	0	20050	829	25.2	23.07	127.64%	0.204	0.297	102											
			1 RB	0	Bottom Surface	0	20430	836.5	25.2	24.14	127.04%	0.307	0.393	-											
LTE Band 5	10MHz	QPSK	1 I KB	Ŭ	Bottom Surface	0	20600	844	25.2	24.06	130.02%	0.292	0.380	-											
ETE Bana o		a. on	25 RB	0	Bottom Surface	0	20525	836.5	24.2	23.11	128.53%	0.238	0.306	-											
				RB	Bottom Surface	Ő	20525	836.5	24.2	23.09	129.12%	0.231	0.298	-											
				[Bottom Surface	Ő	20850	2510	25.2	23.67	142.23%	0.128	0.182	-											
			1 RB	0	Bottom Surface	0	21100	2535	25.2	23.73	140.28%	0.137	0.192	-											
LTE Band 7	20MHz	QPSK			Bottom Surface	0	21350	2560	25.2	23.57	145.55%	0.138	0.201	103											
			50 RB	49	Bottom Surface	0	21100	2535	24.2	22.70	141.25%	0.101	0.143	-											
				RB	Bottom Surface	0	21100	2535	24.2	22.62	143.88%	0.094	0.135	-											
7C	20MHz	QPSK	1 RB	0	Bottom Surface	0	21350	2560	25.2	23.37	152.41%	0.112	0.171	-											
		QPSK 25														Bottom Surface	0	23060	704	25.2	23.68	141.91%	0.442	0.627	104
			1 RB	0	Bottom Surface	0	23095	707.5	25.2	23.67	142.23%	0.419	0.596	-											
LTE Band 12	10MHz				Bottom Surface	0	23130	711	25.2	23.71	140.93%	0.398	0.561	-											
			25 RB	0	Bottom Surface	0	23130	711	24.2	22.65	142.89%	0.311	0.444	-											
			50	RB	Bottom Surface	0	23095	707.5	24.2	22.64	143.22%	0.338	0.484	-											
		QPSK	QPSK	QPSK	OPSK	1 RB	0 25	Bottom Surface	0	23230	782	25.2	24.28	123.59%	0.264	0.326	-								
LTE Band 13	10MHz					OPSK	OPSK		124.74%	0.265	0.331	105													
LIE Danu 13	TOMEZ				25 RB	49		0	23230	782	25.2	24.09	129.12% 122.74%	0.240	0.310 0.250	-									
								RB	Bottom Surface Bottom Surface	0	23230	782	24.2	23.31	122.74%	0.204	0.250	-							
			50	0	Bottom Surface	0	23230	793	25.2	23.98	132.43%	0.198	0.243	106											
			1 RB	25	Bottom Surface	0	23330	793	25.2	23.83	137.09%	0.433	0.577	-											
LTE Band 14	10MHz	QPSK	OPSK	TRO	49	Bottom Surface	0	23330	793	25.2	23.91	134.59%	0.417	0.561	-										
			25 RB	0	Bottom Surface	Ő	23330	793	24.2	23.07	129.72%	0.364	0.472	-											
				RB	Bottom Surface	Ő	23330	793	24.2	23.04	130.62%	0.356	0.465	-											
					Bottom Surface	0	23780	709	25.2	23.71	140.93%	0.474	0.668	-											
			1 RB	0	Bottom Surface	0	23790	710	25.2	23.67	142.23%	0.479	0.681	107											
LTE Band 17	10MHz	QPSK			Bottom Surface	0	23800	711	25.2	23.65	142.89%	0.475	0.679	-											
			25 RB	12	Bottom Surface	0	23780	709	24.2	22.63	143.55%	0.372	0.534	-											
			50	RB	Bottom Surface	0	23780	709	24.2	22.61	144.21%	0.357	0.515	-											
					Bottom Surface	0	26140	1860	25.7	24.01	147.57%	0.565	0.834	-											
			1 RB	0	Bottom Surface	0	26365	1882.5	25.7	23.95	149.62%	0.532	0.796	-											
LTE Band 25	20MHz	QPSK			Bottom Surface	0	26590	1905	25.7	23.98	148.59%	0.586	0.871	108											
			50 RB	49	Bottom Surface	0	26140	1860	24.7	22.99	148.25%	0.452	0.670	-											
			100	RB	Bottom Surface	0	26140	1860	24.7	22.99	148.25%	0.462	0.685	-											
	1		4.00	~	Bottom Surface	0	26765	821.5	25.2	23.95	133.35%	0.332	0.443	109											
LTE Band 00	15141-	QPSK	1 RB	0	Bottom Surface	0	26865	831.5	25.2	24.02	131.22%	0.323	0.424	-											
LTE Band 26	15MHz	UPSK	26 00	10	Bottom Surface	0	26965	841.5	25.2	23.96	133.05%	0.304	0.404	-											
	1		36 RB	18 RB	Bottom Surface	0	26865	831.5	24.2 24.2	22.99 22.95	132.13% 133.35%	0.261	0.345	-											
	ł		15	кв 0	Bottom Surface Bottom Surface	0	26865 27710	831.5 2310	24.2	22.95	133.35%	0.258	0.344	-											
	1		1 RB	25	Bottom Surface	0	27710	2310	24	22.91	128.53%	0.221	0.284	-											
I TE Band 20	10MH7	Hz QPSK	IRD	25 49	Bottom Surface	0	27710	2310	24	22.80	130.02%	0.220	0.286	- 110											
LTE Band 30 10MHz	10MHz		2 QPSK	QPSK	QPSK		QPSK	QPSK	QPSK	QPSK	HZ QPSK		25 RB	12	Bottom Surface	0	27710	2310	24	22.77	127.06%	0.224	0.237	-	

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Mode	Bandwidth (MHz)	Modulation	RB Size	RB start	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged S (W/	kg)	Plot page
												Measured	Reported	
					Bottom Surface	0	37850	2580	25.2	23.77	139.00%	0.099	0.137	-
			1 RB	0	Bottom Surface	0	38000	2595	25.2	23.91	134.59%	0.106	0.143	-
LTE Band 38	20MHz	QPSK			Bottom Surface	0	38150	2610	25.2	23.89	135.21%	0.108	0.146	111
			50 RB	49	Bottom Surface	0	38000	2595	24.2	22.88	135.52%	0.082	0.111	-
			100	RB	Bottom Surface	0	38000	2595	24.2	22.88	135.52%	0.079	0.107	-
38C	20MHz	QPSK	1 RB	0	Bottom Surface	0	38150	2610	25.2	23.57	145.55%	0.094	0.137	-
					Bottom Surface	0	39750	2506	25.2	23.79	138.36%	0.092	0.128	-
					Bottom Surface	0	40185	2549.5	25.2	23.78	138.68%	38.68% 0.097 0.13 42.56% 0.110 0.15 46.22% 0.102 0.14	0.135	-
			1 RB	0	Bottom Surface	0	40620	2593	25.2	23.66	142.56%		0.157	112
LTE Band 41	20MHz	QPSK			Bottom Surface	0	41055	2636.5	25.2	23.55	146.22%		0.149	-
					Bottom Surface	0	41490	2680	25.2	23.71	140.93%	0.009	0.013	-
			50 RB	25	Bottom Surface	0	39750	2506	24.2	22.77	139.00%	0.074	0.103	-
			100	RB	Bottom Surface	0	40185	2549.5	24.2	22.76	139.32%	0.077	0.107	-
41C	20MHz	QPSK	1 RB	0	Bottom Surface	0	41490	2680	25.2	23.56	145.88%	0.104	0.152	-
		QPSK			Bottom Surface	0	39750	2506	27.2	25.78	138.68%	0.101	0.140	-
	20MHz				Bottom Surface	0	40185	2549.5	27.2	25.55	146.22%	0.111	0.162	-
LTE Band 41			1 RB	0	Bottom Surface	0	40620	2593	27.2	25.53	146.89%	0.140	0.206	113
(HPUE)					Bottom Surface	0	41055	2636.5	27.2	25.57	145.55%	0.133	0.194	-
(HPUE)					Bottom Surface	0	41490	2680	27.2	25.51	147.57%	0.012	0.017	-
			50 RB	0	Bottom Surface	0	39750	2506	26.2	24.74	139.96%	0.081	0.113	-
			100	RB	Bottom Surface	0	39750	2506	26.2	24.75	139.64%	0.078	0.109	-
41C	20MHz	QPSK	1 RB	0	Bottom Surface	0	39750	2506	27.2	25.56	145.88%	0.092	0.134	-
					Bottom Surface	0	132072	1720	25.2	23.76	139.32%	0.311	0.433	-
			1 RB	0	Bottom Surface	0	132322	1745	25.2	23.77	139.00%	0.375	0.521	-
LTE Band 66	20MHz	QPSK			Bottom Surface	0	132572	1770	25.2	23.73	140.28%	0.486	0.682	114
			50 RB	0	Bottom Surface	0	132322	1745	24.2	22.73	140.28%	0.294	0.412	-
1			100	RB	Bottom Surface	0	132322	1745	24.2	22.74	139.96%	0.286	0.400	-
					Bottom Surface	0	133222	673	25.2	24.08	129.42%	0.263	0.340	-
1			1 RB	0	Bottom Surface	0	133297	680.5	25.2	23.99	132.13%	0.296	0.391	-
LTE Band 71	20MHz	QPSK			Bottom Surface	0	133372	688	25.2	23.79	138.36%	0.401	0.555	115
1			50 RB	49	Bottom Surface	0	133222	673	24.2	23.05	130.32%	0.189	0.246	-
			100	RB	Bottom Surface	0	133222	673	24.2	23.00	131.83%	0.181	0.239	-

LTE TDD Band 38 / Band 41 / LTE FDD Band 66 / Band 71

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WLAN Aux / Main Antenna

Antenna	Mode	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Plot page
			()		` '	Tolerance (dBm)	(dBm)	3	5	Measured	Reported	1.30
		Bottom surface	0	1	2412	19.50	19.41	1.054	102.09%	0.001	0.001	-
	WLAN 802.11b	Bottom surface	0	6	2437	19.50	19.46	1.054	100.93%	0.001	0.001	-
		Bottom surface	0	10	2457	19.50	19.49	1.054	100.23%	0.002	0.002	116
	WLAN 802.11n(40M) 5.2G	Bottom surface	0	46	5230	19.50	19.41	1.126	102.09%	0.001	0.001	117
Aux	WLAN 802.11n(40M) 5.3G	Bottom surface	0	54	5270	19.50	19.48	1.126	100.46%	0.005	0.006	118
	()	Bottom surface	0	106	5530	14.50	14.39	1.167	102.57%	0.001	0.001	-
	WLAN 802.11ac(80M) 5.6G	Bottom surface	0	122	5610	19.50	19.42	1.167	101.86%	0.005	0.006	-
		Bottom surface	0	138	5690	19.50	19.49	1.167	100.23%	0.006	0.007	119
	WLAN 802.11ac(80M) 5.8G	Bottom surface	0	155	5775	19.50	19.43	1.167	101.62%	0.006	0.007	120
		Bottom surface	0	1	2412	19.50	19.46	1.050	100.93%	0.004	0.004	-
	WLAN 802.11b	Bottom surface	0	6	2437	19.50	19.43	1.050	101.62%	0.004	0.004	-
		Bottom surface	0	10	2457	19.50	19.48	1.050	100.46%	0.005	0.005	121
	Bluetooth (GFSK)	Bottom surface	0	39	2441	12.00	10.32	3.436	147.23%	0.001	0.007	122
	WLAN 802.11n(40M) 5.2G	Bottom surface	0	46	5230	19.50	19.45	1.101	101.16%	0.003	0.003	123
Main	WLAN 802.11n(40M) 5.3G	Bottom surface	0	54	5270	19.50	19.47	1.101	100.69%	0.011	0.012	124
		Bottom surface	0	106	5530	14.50	14.46	1.163	100.93%	0.003	0.004	-
	WLAN 802.11ac(80M) 5.6G	Bottom surface	0	122	5610	19.50	19.43	1.163	101.62%	0.011	0.013	-
		Bottom surface	0	138	5690	19.50	19.45	1.163	101.16%	0.014	0.016	125
	WLAN 802.11ac(80M) 5.8G	Bottom surface	0	155	5775	19.50	19.47	1.163	100.69%	0.014	0.016	126

Note:

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

Reported SAR = measured SAR * (scaling)

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

2.3 Reporting statements of conformity

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

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3. Simultaneous Transmission Analysis

Simultaneous Transmission Scenarios:

NO.	Simultaneous Transmit Configurations	Body
1	WWAN + WLAN 2.4GHz Main + WLAN 2.4GHz Aux	YES
2	WWAN + BT Main + WLAN 5GHz Main + WLAN 5GHz Aux	YES
3	WWAN + BT Main + WLAN 2.4GHz Aux	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:

Estimated SAR = $\frac{Max.tune up power (mW)}{Min.test separation distance(mm)}$

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

3.2 SPLSR evaluation and analysis

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

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

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

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

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

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	•		The simulta	neous Transn	nission condit	ions (Notebo	ok mode)				
Exposure	Exposure	0	1	2	3	4	5	Scenario 1	Scenario 2	Scenario 3	
position 1g(W/kg)	position 1g(W/kg)	WWAN	WLAN 2.4GHz Main	WLAN 2.4GHz Aux	WLAN 5GHz Main	WLAN 5GHz Aux	BT (Main)	0+1+2 Sum	0+3+4+5 Sum	0+2+5 Sum	SPLSR
WCDMA Band II	Laptop_Bottom	0.930	0.005	0.002	0.016	0.007	0.007	0.937	0.960	0.939	ΣSAR<1.6, Not required
WCDMA Band V	Laptop_Bottom	0.344	0.005	0.002	0.016	0.007	0.007	0.351	0.374	0.353	ΣSAR<1.6, Not required
LTE Band 2	Laptop_Bottom	0.822	0.005	0.002	0.016	0.007	0.007	0.829	0.852	0.831	ΣSAR<1.6, Not required
LTE Band 4	Laptop_Bottom	0.487	0.005	0.002	0.016	0.007	0.007	0.494	0.517	0.496	ΣSAR<1.6, Not required
LTE Band 5	Laptop_Bottom	0.405	0.005	0.002	0.016	0.007	0.007	0.412	0.435	0.414	ΣSAR<1.6, Not required
LTE Band 7	Laptop_Bottom	0.201	0.005	0.002	0.016	0.007	0.007	0.208	0.231	0.210	ΣSAR<1.6, Not required
LTE Band 12	Laptop_Bottom	0.627	0.005	0.002	0.016	0.007	0.007	0.634	0.657	0.636	ΣSAR<1.6, Not required
LTE Band 13	Laptop_Bottom	0.331	0.005	0.002	0.016	0.007	0.007	0.338	0.361	0.340	ΣSAR<1.6, Not required
LTE Band 14	Laptop_Bottom	0.581	0.005	0.002	0.016	0.007	0.007	0.588	0.611	0.590	ΣSAR<1.6, Not required
LTE Band 17	Laptop_Bottom	0.681	0.005	0.002	0.016	0.007	0.007	0.688	0.711	0.690	ΣSAR<1.6, Not required
LTE Band 25	Laptop_Bottom	0.871	0.005	0.002	0.016	0.007	0.007	0.878	0.901	0.880	ΣSAR<1.6, Not required
LTE Band 26	Laptop_Bottom	0.443	0.005	0.002	0.016	0.007	0.007	0.450	0.473	0.452	ΣSAR<1.6, Not required
LTE Band 30	Laptop_Bottom	0.297	0.005	0.002	0.016	0.007	0.007	0.304	0.327	0.306	ΣSAR<1.6, Not required
LTE Band 38	Laptop_Bottom	0.146	0.005	0.002	0.016	0.007	0.007	0.153	0.176	0.155	ΣSAR<1.6, Not required
LTE Band 41	Laptop_Bottom	0.157	0.005	0.002	0.016	0.007	0.007	0.164	0.187	0.166	ΣSAR<1.6, Not required
LTE Band 41 (HPUE)	Laptop_Bottom	0.206	0.005	0.002	0.016	0.007	0.007	0.213	0.236	0.215	ΣSAR<1.6, Not required
LTE Band 66	Laptop_Bottom	0.682	0.005	0.002	0.016	0.007	0.007	0.689	0.712	0.691	ΣSAR<1.6, Not required
LTE Band 71	Laptop_Bottom	0.555	0.005	0.002	0.016	0.007	0.007	0.562	0.585	0.564	ΣSAR<1.6, Not required

Conclusion:

Simultaneous transmission SAR measurement (Volume Scan) is not required because either the sum of the 1-g SAR is < 1.6 W/kg or the SPLSR is \leq 0.04 for all circumstances that require SPLSR calculation.

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4. Instruments List

Manufacturer	Device	Туре	Serial number	Date of last calibration	Date of next calibration
0054.0	Dosimetric E-Field	EX3DV4	7642	Mar.19,2021	Mar.18,2022
SPEAG	Probe		7466	Jan.29,2021	Jan.28,2022
		D750V3	1015	Aug.13,2020	Aug.12,2021
		D835V2	4d063	Aug.13,2020	Aug.12,2021
		D1750V2	1008	Aug.14,2020	Aug.13,2021
0054.0	System Validation	D1900V2	5d173	Apr.15,2021	Apr.14,2022
SPEAG	Dipole	D2300V2	1023	Aug.13,2020	Aug.12,2021
		D2450V2	727	Apr.14,2021	Apr.13,2022
		D2600V2 1005 Jan.2		Jan.22,2021	Jan.21,2022
		D5GHzV2	1023	Jan.28,2020	Jan.27,2021
0054.0	Data acquisition	DAE4	856	Apr.23,2021	Apr.22,2022
SPEAG	Electronics	DAE4	1665	Mar.01,2021	Feb.28,2022
SPEAG	Software	DASY 52 V52.10.4	N/A	Calibration not required	Calibration not required
SPEAG	Phantom	ELI	N/A	Calibration not required	Calibration not required
SPEAG	Dielectric Assessment Kit	DAKS-3.5	1053	•	Feb.16,2022
Agilant	Dual-directional	772D	MY52180142	Oct.06,2020	Oct.05,2021
Agilent	coupler 778		MY52180302	Oct.06,2020	Oct.05,2021
Agilent	Signal Generator	N5181A	MY50141235	May.30,2021	May.29,2022
Agilent	Power Meter	E4417A	MY51410006	Mar.23,2021	Mar.22,2022
A	Dower Senser		MY51470001	Mar.23,2021	Mar.22,2022
Agilent	Power Sensor	E9301H	MY51470002	Mar.23,2021	Mar.22,2022

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Manufacturer	Device	Туре	Serial number	Date of last calibration	Date of next calibration
TECPEL	Digital thermometer	DTM-303A	TP130074	Apr.26,2021	Apr.25,2022
Anritsu	Radio Communication Test	MT8820C	6201061049	May.14,2021	May.13,2022
Anritsu	Radio Communication Test	MT8821C	6262044739	Dec.02.2020	Dec.01.2021

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5. Measurements

Date: 2021/8/5

Report No. :EN/2021/70008 WCDMA Band II, Body, Bottom Surface, CH 9538. 0mm Communication System: WCDMA; Frequency: 1907.6 MHz; Duty cycle= 1:1 Medium parameters used: f = 1908 MHz; σ = 1.451 S/m; ϵ_r = 39.278; ρ = 1000 kg/m³

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 SN7642; ConvF(8.8, 8.8, 8.8) @ 1907.6 MHz; Calibrated: 2021/3/19;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2021/4/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.10(7483)

Area Scan (51x241x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.928 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 4.882 V/m; Power Drift = 0.09 dB Peak SAR (extrapolated) = 1.15 W/kg SAR(1 g) = 0.660 W/kg; SAR(10 g) = 0.350 W/kgSmallest distance from peaks to all points 3 dB below = 9.5 mm Ratio of SAR at M2 to SAR at M1 = 63.4% Maximum value of SAR (measured) = 0.931 W/kg Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 4.882 V/m; Power Drift = 0.09 dB Peak SAR (extrapolated) = 0.779 W/kg SAR(1 g) = 0.453 W/kg; SAR(10 g) = 0.253 W/kg Smallest distance from peaks to all points 3 dB below = 9.1 mm Ratio of SAR at M2 to SAR at M1 = 60.3% Maximum value of SAR (measured) = 0.615 W/kg

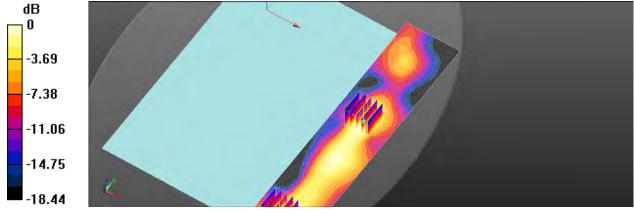
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0 dB = 0.615 W/kg = -2.11 dBW/kg

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Date: 2021/8/3

Report No. :EN/2021/70008 WCDMA Band V, Body, Bottom Surface, CH 4183, 0mm

Communication System: WCDMA; Frequency: 836.6 MHz; Duty cycle= 1:1 Medium parameters used: f = 837 MHz; σ = 0.904 S/m; ϵ_r = 41.596; ρ = 1000 kg/m³ Phantom section: Flat Section Ambient temperature: 22.5°C; Liquid temperature: 22.7°C

DASY5 Configuration:

- Probe: EX3DV4 SN7642; ConvF(10.37, 10.37, 10.37) @ 836.6 MHz; Calibrated: 2021/3/19;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2021/4/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.10(7483)

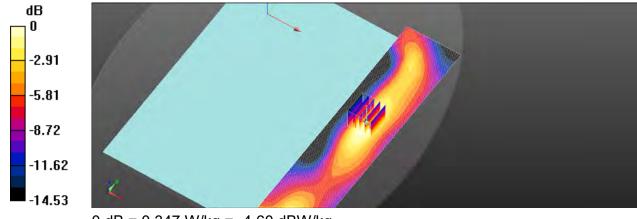
Area Scan (51x241x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.376 W/kg

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

Reference Value = 2.625 V/m: Power Drift = 0.12 dB Peak SAR (extrapolated) = 0.431 W/kg SAR(1 g) = 0.271 W/kg; SAR(10 g) = 0.161 W/kgSmallest distance from peaks to all points 3 dB below = 8.6 mm Ratio of SAR at M2 to SAR at M1 = 44.2%

Maximum value of SAR (measured) = 0.347 W/kg



0 dB = 0.347 W/kg = -4.60 dBW/kg

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Date: 2021/8/5

Report No. :EN/2021/70008 LTE Band 2 (20MHz), Body, Bottom Surface, CH 19100, QPSK, 1-0, 0mm Communication System: LTE; Frequency: 1900 MHz; Duty cycle= 1:1 Medium parameters used: f = 1900 MHz; σ = 1.445 S/m; ϵ_r = 39.282; ρ = 1000 kg/m³ Phantom section: Flat Section Ambient temperature: 22.1°C; Liquid temperature: 22.3°C **DASY5** Configuration: Probe: EX3DV4 - SN7642; ConvF(8.8, 8.8, 8.8) @ 1900 MHz; Calibrated: 2021/3/19; Sensor-Surface: 2mm (Mechanical Surface Detection) Electronics: DAE4 Sn856; Calibrated: 2021/4/23 Phantom: ELI DASY52 52.10.4(1527); SEMCAD X 14.6.10(7483) Area Scan (51x241x1): Interpolated grid: dx=15 mm, dy=15 mm Maximum value of SAR (interpolated) = 0.763 W/kg Zoom Scan (5x5x7)/Cube 0: Measurement arid: dx=8mm. dv=8mm. dz=5mm Reference Value = 4.112 V/m; Power Drift = 0.03 dB Peak SAR (extrapolated) = 0.935 W/kg SAR(1 g) = 0.547 W/kg; SAR(10 g) = 0.292 W/kg Maximum value of SAR (measured) = 0.759 W/kg Zoom Scan (5x5x7)/Cube 1: Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 4.112 V/m; Power Drift = 0.03 dB Peak SAR (extrapolated) = 0.696 W/kg SAR(1 q) = 0.407 W/kq; SAR(10 q) = 0.228 W/kqSmallest distance from peaks to all points 3 dB below = 10.9 mm Ratio of SAR at M2 to SAR at M1 = 55.2% Maximum value of SAR (measured) = 0.555 W/kg dB 0 -3.71-7.43-11.14 -14.86

0 dB = 0.555 W/kg = -2.56 dBW/kg

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Date: 2021/8/4

Report No. :EN/2021/70008 LTE Band 4 (20MHz), Body, Bottom Surface, CH 20300, QPSK, 1-0, 0mm Communication System: LTE; Frequency: 1745 MHz; Duty cycle= 1:1 Medium parameters used: f = 1745 MHz; σ = 1.334 S/m; ε_r = 39.511; ρ = 1000 kg/m³ Phantom section: Flat Section Ambient temperature: 22.3°C; Liquid temperature: 22.5°C

DASY5 Configuration:

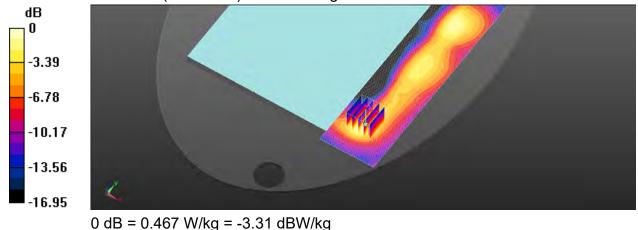
- Probe: EX3DV4 SN7642; ConvF(9.26, 9.26, 9.26) @ 1745 MHz; Calibrated: 2021/3/19;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2021/4/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.10(7483)

Area Scan (51x241x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.446 W/kg

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

Reference Value = 2.648 V/m; Power Drift = 0.15 dB Peak SAR (extrapolated) = 0.574 W/kg SAR(1 g) = 0.330 W/kg; SAR(10 g) = 0.180 W/kgSmallest distance from peaks to all points 3 dB below = 9.4 mm Ratio of SAR at M2 to SAR at M1 = 53.5% Maximum value of SAR (measured) = 0.467 W/kg



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Report No. :EN/2021/70008 LTE Band 5 (10MHz), Body, Bottom Surface, CH 20450, QPSK, 1-0, 0mm Communication System: LTE; Frequency: 829 MHz; Duty cycle= 1:1 Medium parameters used: f = 829 MHz; σ = 0.891 S/m; ϵ_r = 41.651; ρ = 1000 kg/m³ Phantom section: Flat Section Ambient temperature: 22.5°C; Liquid temperature: 22.7°C

DASY5 Configuration:

- Probe: EX3DV4 SN7642; ConvF(10.37, 10.37, 10.37) @ 829 MHz; Calibrated: 2021/3/19;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2021/4/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.10(7483)

Area Scan (51x221x1): Interpolated grid: dx=15 mm, dy=15 mm

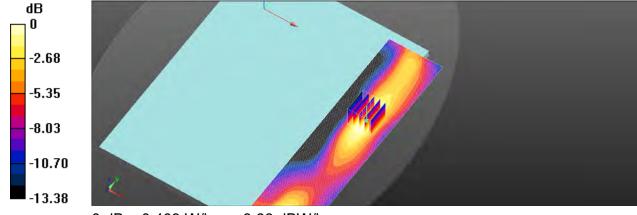
Maximum value of SAR (interpolated) = 0.418 W/kg

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

Reference Value = 2.731 V/m: Power Drift = 0.14 dB Peak SAR (extrapolated) = 0.491 W/kg SAR(1 g) = 0.317 W/kg; SAR(10 g) = 0.196 W/kg

Smallest distance from peaks to all points 3 dB below = 10.2 mm Ratio of SAR at M2 to SAR at M1 = 58.2%

Maximum value of SAR (measured) = 0.409 W/kg



0 dB = 0.409 W/kg = -3.88 dBW/kg

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Date: 2021/8/6

Report No. :EN/2021/70008 LTE Band 7 (20MHz), Body, Bottom Surface, CH 21350, QPSK, 1-0, 0mm Communication System: LTE; Frequency: 2560 MHz; Duty cycle= 1:1 Medium parameters used: f = 2560 MHz; σ = 1.917 S/m; ε_r = 38.854; ρ = 1000 kg/m³ Phantom section: Flat Section Ambient temperature: 21.6°C; Liquid temperature: 21.9°C

DASY5 Configuration:

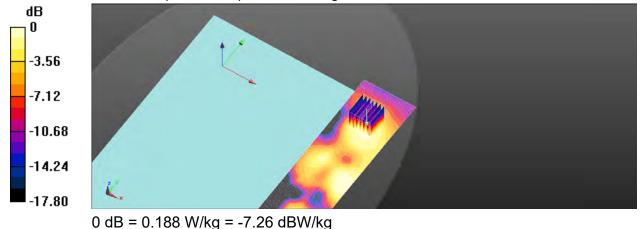
- Probe: EX3DV4 SN7642; ConvF(7.9, 7.9, 7.9) @ 2560 MHz; Calibrated: 2021/3/19;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2021/4/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.10(7483)

Area Scan (61x301x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.194 W/kg

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

Reference Value = 2.115 V/m; Power Drift = 0.04 dB Peak SAR (extrapolated) = 0.246 W/kg SAR(1 g) = 0.138 W/kg; SAR(10 g) = 0.071 W/kgSmallest distance from peaks to all points 3 dB below = 6.4 mm Ratio of SAR at M2 to SAR at M1 = 51.2% Maximum value of SAR (measured) = 0.188 W/kg



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Report No. :EN/2021/70008 LTE Band 12 (10MHz), Body, Bottom Surface, CH 23060, QPSK, 1-0, 0mm Communication System: LTE; Frequency: 704 MHz; Duty cycle= 1:1 Medium parameters used: f = 704 MHz; σ = 0.875 S/m; ϵ_r = 42.378; ρ = 1000 kg/m³ Phantom section: Flat Section Ambient temperature: 21.9°C; Liquid temperature: 22.1°C

DASY5 Configuration:

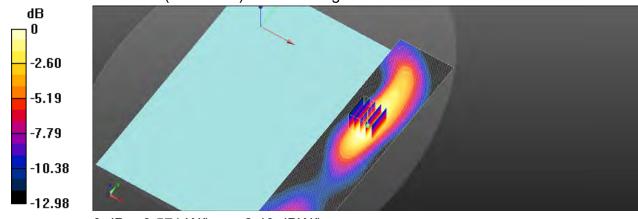
- Probe: EX3DV4 SN7642; ConvF(10.64, 10.64, 10.64) @ 704 MHz; Calibrated: 2021/3/19;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2021/4/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.10(7483)

Area Scan (51x241x1): Interpolated grid: dx=15 mm, dy=15 mm

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

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

Reference Value = 3.686 V/m: Power Drift = 0.12 dB Peak SAR (extrapolated) = 0.692 W/kg SAR(1 g) = 0.442 W/kg; SAR(10 g) = 0.274 W/kgSmallest distance from peaks to all points 3 dB below = 9.5 mm Ratio of SAR at M2 to SAR at M1 = 39.4% Maximum value of SAR (measured) = 0.571 W/kg



0 dB = 0.571 W/kg = -2.43 dBW/kg

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Report No. :EN/2021/70008 LTE Band 13 (10MHz), Body, Bottom Surface, CH 23230, QPSK, 1-25, 0mm Communication System: LTE; Frequency: 782 MHz; Duty cycle= 1:1 Medium parameters used: f = 782 MHz; σ = 0.929 S/m; ϵ_r = 41.732; ρ = 1000 kg/m³ Phantom section: Flat Section Ambient temperature: 21.9°C; Liquid temperature: 22.1°C

DASY5 Configuration:

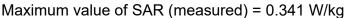
- Probe: EX3DV4 SN7642; ConvF(10.64, 10.64, 10.64) @ 782 MHz; Calibrated: 2021/3/19;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2021/4/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.10(7483)

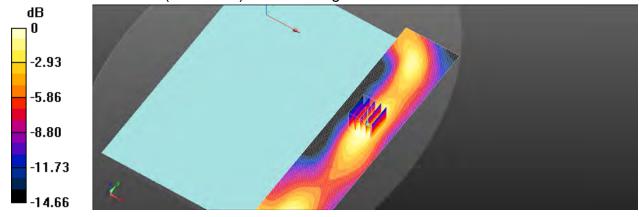
Area Scan (51x241x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.363 W/kg

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

Reference Value = 2.256 V/m: Power Drift = 0.12 dB Peak SAR (extrapolated) = 0.412 W/kg SAR(1 g) = 0.265 W/kg; SAR(10 g) = 0.164 W/kgSmallest distance from peaks to all points 3 dB below = 8.2 mm Ratio of SAR at M2 to SAR at M1 = 72.1%





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

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Report No. :EN/2021/70008 LTE Band 14 (10MHz), Body, Bottom Surface, CH 23330, QPSK, 1-0, 0mm Communication System: LTE; Frequency: 793 MHz; Duty cycle= 1:1 Medium parameters used: f = 793 MHz; σ = 0.935 S/m; ϵ_r = 41.626; ρ = 1000 kg/m³ Phantom section: Flat Section Ambient temperature: 22.2°C; Liquid temperature: 22.4°C

DASY5 Configuration:

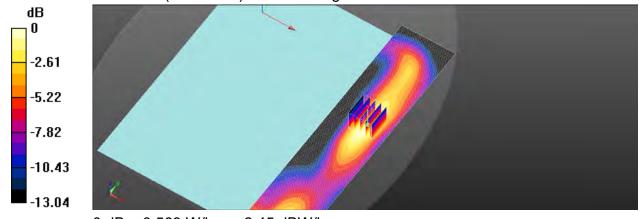
- Probe: EX3DV4 SN7642; ConvF(10.64, 10.64, 10.64) @ 793 MHz; Calibrated: 2021/3/19;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2021/4/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.10(7483)

Area Scan (51x241x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.585 W/kg

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

Reference Value = 2.373 V/m: Power Drift = 0.11 dB Peak SAR (extrapolated) = 0.682 W/kg SAR(1 g) = 0.439 W/kg; SAR(10 g) = 0.272 W/kg Smallest distance from peaks to all points 3 dB below = 11.2 mm Ratio of SAR at M2 to SAR at M1 = 57.3% Maximum value of SAR (measured) = 0.569 W/kg



⁰ dB = 0.569 W/kg = -2.45 dBW/kg

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Date: 2021/8/2

Report No. :EN/2021/70008 LTE Band 17 (10MHz), Body, Bottom Surface, CH 23790, QPSK, 1-0, 0mm Communication System: LTE; Frequency: 710 MHz; Duty cycle= 1:1 Medium parameters used: f = 710 MHz; σ = 0.881 S/m; ϵ_r = 42.344; ρ = 1000 kg/m³ Phantom section: Flat Section Ambient temperature: 22.2°C; Liquid temperature: 22.4°C

DASY5 Configuration:

- Probe: EX3DV4 SN7642; ConvF(10.64, 10.64, 10.64) @ 710 MHz; Calibrated: 2021/3/19;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2021/4/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.10(7483)

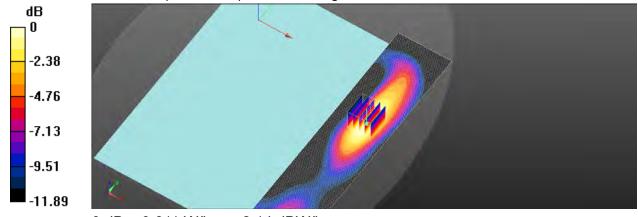
Area Scan (51x241x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.623 W/kg

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

Reference Value = 2.611 V/m: Power Drift = 0.14 dB Peak SAR (extrapolated) = 0.721 W/kg

SAR(1 g) = 0.479 W/kg; SAR(10 g) = 0.302 W/kgSmallest distance from peaks to all points 3 dB below = 9.8 mm Ratio of SAR at M2 to SAR at M1 = 55.2% Maximum value of SAR (measured) = 0.611 W/kg



0 dB = 0.611 W/kg = -2.14 dBW/kg

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Date: 2021/8/5

Report No. :EN/2021/70008 LTE Band 25 (20MHz), Body, Bottom Surface, CH 26590, QPSK, 1-0, 0mm Communication System: LTE; Frequency: 1905 MHz; Duty cycle= 1:1 Medium parameters used: f = 1905 MHz; σ = 1.449 S/m; ε_r = 39.279; ρ = 1000 kg/m³ Phantom section: Flat Section Ambient temperature: 22.1°C; Liquid temperature: 22.3°C

DASY5 Configuration:

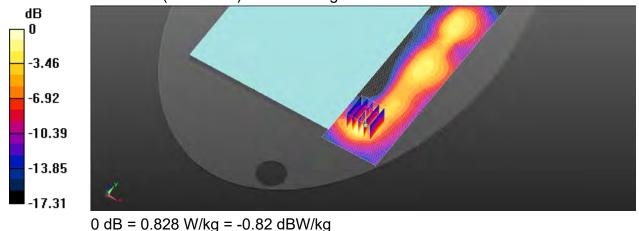
- Probe: EX3DV4 SN7642; ConvF(8.8, 8.8, 8.8) @ 1905 MHz; Calibrated: 2021/3/19;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2021/4/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.10(7483)

Area Scan (51x241x1): Interpolated grid: dx=15 mm, dy=15 mm

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

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

Reference Value = 4.145 V/m; Power Drift = 0.19 dB Peak SAR (extrapolated) = 1.03 W/kg SAR(1 g) = 0.586 W/kg; SAR(10 g) = 0.313 W/kg Smallest distance from peaks to all points 3 dB below = 8.5 mm Ratio of SAR at M2 to SAR at M1 = 53.7% Maximum value of SAR (measured) = 0.828 W/kg



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Date: 2021/8/3

Report No. :EN/2021/70008 LTE Band 26 (15MHz), Body, Bottom Surface, CH 26765, QPSK, 1-0, 0mm Communication System: LTE; Frequency: 821.5 MHz; Duty cycle= 1:1 Medium parameters used: f = 821.5 MHz; σ = 0.877 S/m; ϵ_r = 41.695; ρ = 1000 kg/m³ Phantom section: Flat Section Ambient temperature: 22.5°C; Liquid temperature: 22.7°C

DASY5 Configuration:

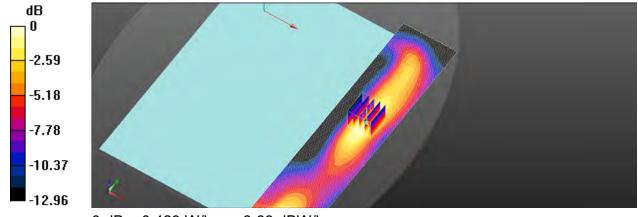
- Probe: EX3DV4 SN7642; ConvF(10.37, 10.37, 10.37) @ 821.5 MHz; Calibrated: 2021/3/19;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2021/4/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.10(7483)

Area Scan (51x241x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.441 W/kg

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

Reference Value = 2.471 V/m: Power Drift = 0.12 dB Peak SAR (extrapolated) = 0.514 W/kg SAR(1 g) = 0.332 W/kg; SAR(10 g) = 0.205 W/kgSmallest distance from peaks to all points 3 dB below = 8.1 mm Ratio of SAR at M2 to SAR at M1 = 45.2% Maximum value of SAR (measured) = 0.429 W/kg



0 dB = 0.429 W/kg = -3.68 dBW/kg

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Date: 2021/8/6

Report No. :EN/2021/70008 LTE Band 30 (10MHz), Body, Bottom Surface, CH 27710, QPSK, 1-49, 0mm Communication System: LTE; Frequency: 2310 MHz; Duty cycle= 1:1 Medium parameters used: f = 2310 MHz; σ = 1.687 S/m; ϵ_r = 39.638; ρ = 1000 kg/m³ Phantom section: Flat Section Ambient temperature: 21.8°C; Liquid temperature: 22.1°C

DASY5 Configuration:

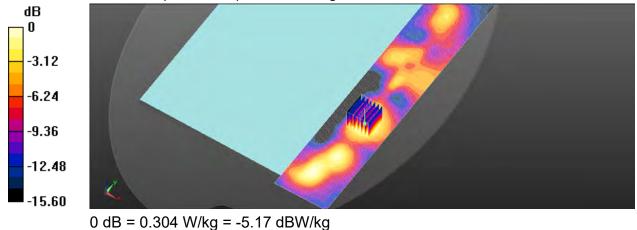
- Probe: EX3DV4 SN7642; ConvF(8.29, 8.29, 8.29) @ 2310 MHz; Calibrated: 2021/3/19;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2021/4/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.10(7483)

Area Scan (61x301x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.318 W/kg

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

Reference Value = 2.326 V/m; Power Drift = 0.18 dB Peak SAR (extrapolated) = 0.381 W/kg SAR(1 g) = 0.224 W/kg; SAR(10 g) = 0.129 W/kgSmallest distance from peaks to all points 3 dB below = 8.8 mm Ratio of SAR at M2 to SAR at M1 = 56.8% Maximum value of SAR (measured) = 0.304 W/kg



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Date: 2021/8/6

Report No. :EN/2021/70008 LTE Band 38 (20MHz), Body, Bottom Surface, CH 38150, QPSK, 1-0, 0mm Communication System: LTE; Frequency: 2610 MHz; Duty cycle= 1:1.59956 Medium parameters used: f = 2610 MHz; σ = 1.957 S/m; ε_r = 38.742; ρ = 1000 kg/m³ Phantom section: Flat Section Ambient temperature: 21.6°C; Liquid temperature: 21.9°C

DASY5 Configuration:

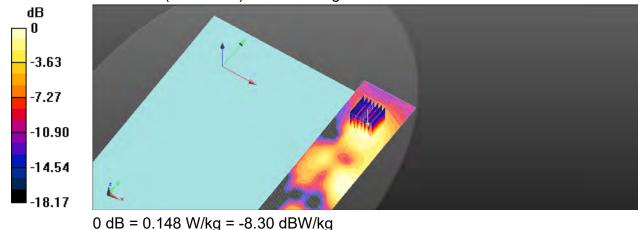
- Probe: EX3DV4 SN7642; ConvF(7.9, 7.9, 7.9) @ 2610 MHz; Calibrated: 2021/3/19;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2021/4/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.10(7483)

Area Scan (61x301x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.155 W/kg

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

Reference Value = 2.364 V/m; Power Drift = 0.04 dB Peak SAR (extrapolated) = 0.195 W/kg SAR(1 g) = 0.108 W/kg; SAR(10 g) = 0.059 W/kgSmallest distance from peaks to all points 3 dB below = 5.5 mm Ratio of SAR at M2 to SAR at M1 = 43.7% Maximum value of SAR (measured) = 0.148 W/kg



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Date: 2021/8/7

Report No. :EN/2021/70008 LTE Band 41 (20MHz), Body, Bottom Surface, CH 40620, QPSK, 1-0, 0mm Communication System: LTE; Frequency: 2593 MHz; Duty cycle= 1:1.59956 Medium parameters used: f = 2593 MHz; σ = 1.943 S/m; ε_r = 38.769; ρ = 1000 kg/m³ Phantom section: Flat Section Ambient temperature: 21.4°C; Liquid temperature: 21.7°C

DASY5 Configuration:

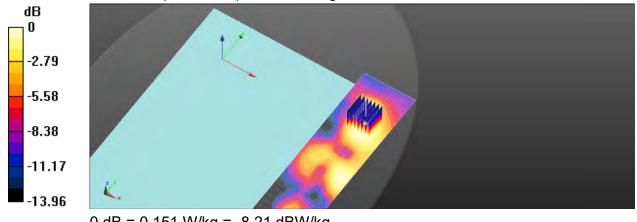
- Probe: EX3DV4 SN7642; ConvF(7.9, 7.9, 7.9) @ 2593 MHz; Calibrated: 2021/3/19;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2021/4/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.10(7483)

Area Scan (61x301x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.162 W/kg

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

Reference Value = 2.032 V/m; Power Drift = 0.13 dB Peak SAR (extrapolated) = 0.194 W/kg SAR(1 g) = 0.110 W/kg; SAR(10 g) = 0.064 W/kgSmallest distance from peaks to all points 3 dB below = 5.6 mm Ratio of SAR at M2 to SAR at M1 = 51.9% Maximum value of SAR (measured) = 0.151 W/kg



0 dB = 0.151 W/kg = -8.21 dBW/kg

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Date: 2021/8/7

Report No. :EN/2021/70008

LTE Band 41 (20MHz), Body, Bottom Surface, CH 40620, QPSK, 1-0, 0mm, HPUE

Communication System: LTE; Frequency: 2593 MHz; Duty cycle= 1:2.31 Medium parameters used: f = 2593 MHz; σ = 1.943 S/m; ϵ_r = 38.769; ρ = 1000 kg/m³ Phantom section: Flat Section Ambient temperature: 21.4°C; Liquid temperature: 21.7°C

DASY5 Configuration:

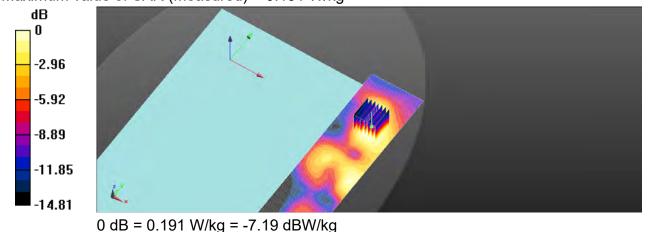
- Probe: EX3DV4 SN7642; ConvF(7.9, 7.9, 7.9) @ 2593 MHz; Calibrated: 2021/3/19;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2021/4/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.10(7483)

Area Scan (61x301x1): Interpolated grid: dx=12 mm. dv=12 mm Maximum value of SAR (interpolated) = 0.210 W/kg

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

Reference Value = 2.258 V/m; Power Drift = 0.19 dB Peak SAR (extrapolated) = 0.249 W/kg

SAR(1 g) = 0.140 W/kg; SAR(10 g) = 0.080 W/kg Smallest distance from peaks to all points 3 dB below = 5.5 mm Ratio of SAR at M2 to SAR at M1 = 50.2% Maximum value of SAR (measured) = 0.191 W/kg



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Date: 2021/8/4

Report No. :EN/2021/70008 LTE Band 66 (20MHz), Body, Bottom Surface, CH 132572, QPSK, 1-0, 0mm Communication System: LTE; Frequency: 1770 MHz; Duty cycle= 1:1.59956 Medium parameters used: f = 1770 MHz; σ = 1.352 S/m; ε_r = 39.449; ρ = 1000 kg/m³ Phantom section: Flat Section Ambient temperature: 22.3°C; Liquid temperature: 22.5°C

DASY5 Configuration:

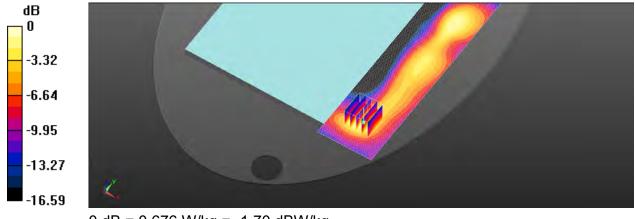
- Probe: EX3DV4 SN7642; ConvF(9.26, 9.26, 9.26) @ 1770 MHz; Calibrated: 2021/3/19;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2021/4/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.10(7483)

Area Scan (51x241x1): Interpolated grid: dx=15 mm, dy=15 mm

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

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

Reference Value = 3.039 V/m; Power Drift = 0.13 dB Peak SAR (extrapolated) = 0.836 W/kg SAR(1 g) = 0.486 W/kg; SAR(10 g) = 0.266 W/kgSmallest distance from peaks to all points 3 dB below = 8.6 mm Ratio of SAR at M2 to SAR at M1 = 43.7% Maximum value of SAR (measured) = 0.676 W/kg



0 dB = 0.676 W/kg = -1.70 dBW/kg

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Date: 2021/8/1

Report No. :EN/2021/70008 LTE Band 71 (20MHz), Body, Bottom Surface, CH 133372, QPSK, 1-0, 0mm Communication System: LTE; Frequency: 688 MHz; Duty cycle= 1:1 Medium parameters used: f = 688 MHz; σ = 0.874 S/m; ϵ_r = 42.517; ρ = 1000 kg/m³ Phantom section: Flat Section Ambient temperature: 21.9°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 SN7642; ConvF(10.64, 10.64, 10.64) @ 688 MHz; Calibrated: 2021/3/19;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2021/4/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.10(7483)

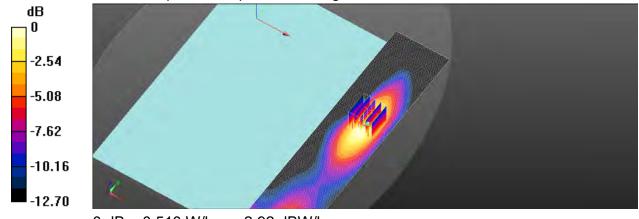
Area Scan (51x241x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.511 W/kg

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

Reference Value = 3.512 V/m: Power Drift = 0.14 dB Peak SAR (extrapolated) = 0.597 W/kg

SAR(1 g) = 0.401 W/kg; SAR(10 g) = 0.253 W/kgSmallest distance from peaks to all points 3 dB below = 8.7 mm Ratio of SAR at M2 to SAR at M1 = 54.2% Maximum value of SAR (measured) = 0.510 W/kg



0 dB = 0.510 W/kg = -2.92 dBW/kg

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Date: 2021/8/8

Report No. :EN/2021/70008 WLAN 802.11b, Body, Bottom Surface, CH 10, 0mm, Aux Communication System: WLAN 2.45G; Frequency: 2457 MHz; Duty cycle= 1:1.054

Medium parameters used: f = 2457 MHz; σ = 1.821 S/m; ϵ_r = 38.241; ρ = 1000 kg/m³ Phantom section: Flat Section Ambient temperature: 22.4°C; Liquid temperature: 22.2°C

DASY5 Configuration:

- Probe: EX3DV4 SN7466; ConvF(8.08, 8.08, 8.08) @ 2457 MHz; Calibrated: 2021/1/29
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2021/3/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x121x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.0140 W/kg

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

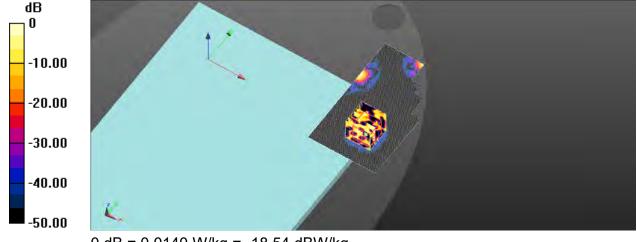
Reference Value = 3.156 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.0230 W/kg

SAR(1 g) = 0.00193 W/kg; SAR(10 g) = 0.000368 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid Ratio of SAR at M2 to SAR at M1 = 49.9%

Maximum value of SAR (measured) = 0.0179 W/kg



0 dB = 0.0140 W/kg = -18.54 dBW/kg

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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Date: 2021/8/9

Report No. :EN/2021/70008 WLAN 802.11n(40M) 5.2G, Body, Bottom Surface, CH 46, 0mm, Aux Communication System: WLAN 5G; Frequency: 5230 MHz; Duty cycle= 1:1.126 Medium parameters used: f = 5230 MHz; σ = 4.551 S/m; ε_r = 35.781; ρ = 1000 kg/m³ Phantom section: Flat Section Ambient temperature: 22.1°C; Liquid temperature: 21.7°C

DASY5 Configuration:

- Probe: EX3DV4 SN7466; ConvF(5.6, 5.6, 5.6) @ 5230 MHz; Calibrated: 2021/1/29
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2021/3/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x121x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.0165 W/kg

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

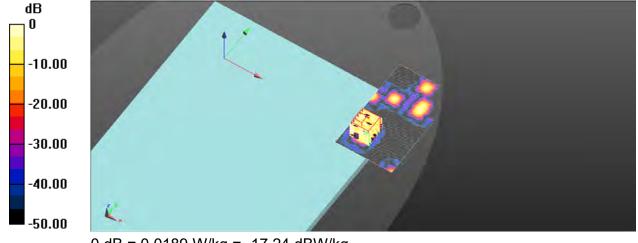
Reference Value = 2.682 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.0210 W/kg

SAR(1 g) = 0.000969 W/kg; SAR(10 g) = 0.000365 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid Ratio of SAR at M2 to SAR at M1 = 58.4%

Maximum value of SAR (measured) = 0.0189 W/kg



0 dB = 0.0189 W/kg = -17.24 dBW/kg

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Date: 2021/8/9

Report No. :EN/2021/70008 WLAN 802.11n(40M) 5.3G, Body Bottom Surface, CH 54, 0mm, Aux Communication System: WLAN 5G; Frequency: 5270 MHz; Duty cycle= 1:1.126 Medium parameters used: f = 5270 MHz; σ = 4.608 S/m; ε_r = 35.696; ρ = 1000 kg/m³ Phantom section: Flat Section Ambient temperature: 22.3°C; Liquid temperature: 22.0°C

DASY5 Configuration:

- Probe: EX3DV4 SN7466; ConvF(5.5, 5.5, 5.5) @ 5270 MHz; Calibrated: 2021/1/29
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2021/3/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x121x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.0360 W/kg

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

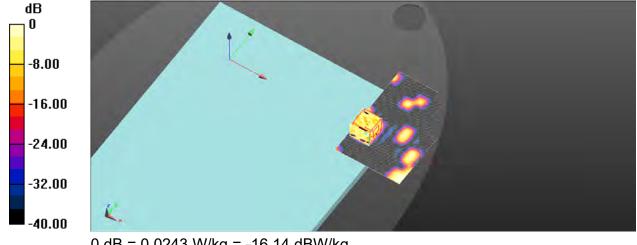
Reference Value = 3.536 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.0310 W/kg

SAR(1 g) = 0.00549 W/kg; SAR(10 g) = 0.0025 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid Ratio of SAR at M2 to SAR at M1 = 62.5%

Maximum value of SAR (measured) = 0.0243 W/kg



0 dB = 0.0243 W/kg = -16.14 dBW/kg

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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Date: 2021/8/10

Report No. :EN/2021/70008 WLAN 802.11ac(80M) 5.6G, Body, Bottom Surface, CH 138, 0mm, Aux Communication System: WLAN 5G; Frequency: 5690 MHz; Duty cycle= 1:1.167 Medium parameters used: f = 5690 MHz; σ = 5.151 S/m; ε_r = 34.889; ρ = 1000 kg/m³ Phantom section: Flat Section Ambient temperature: 22.0°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 SN7466; ConvF(5.04, 5.04, 5.04) @ 5690 MHz; Calibrated: 2021/1/29
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2021/3/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x121x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.0385 W/kg

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

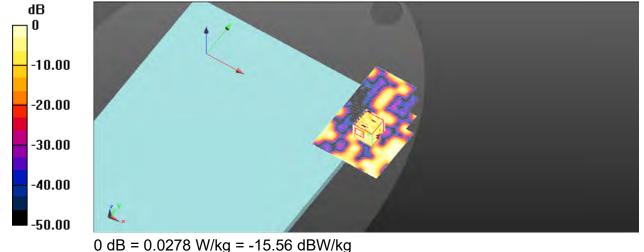
Reference Value = 3.412 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.0590 W/kg

SAR(1 g) = 0.0059 W/kg; SAR(10 g) = 0.00292 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid Ratio of SAR at M2 to SAR at M1 = 57.3%

Maximum value of SAR (measured) = 0.0278 W/kg



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Date: 2021/8/10

Report No. :EN/2021/70008 WLAN 802.11ac(80M) 5.8G, Body, Bottom Surface, CH 155, 0mm, Aux Communication System: WLAN 5G; Frequency: 5775 MHz; Duty cycle= 1:1.167 Medium parameters used: f = 5775 MHz; σ = 5.265 S/m; ε_r = 34.742; ρ = 1000 kg/m³ Phantom section: Flat Section Ambient temperature: 22.3°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 SN7466; ConvF(5.02, 5.02, 5.02) @ 5775 MHz; Calibrated: 2021/1/29
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2021/3/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x121x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.0540 W/kg

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

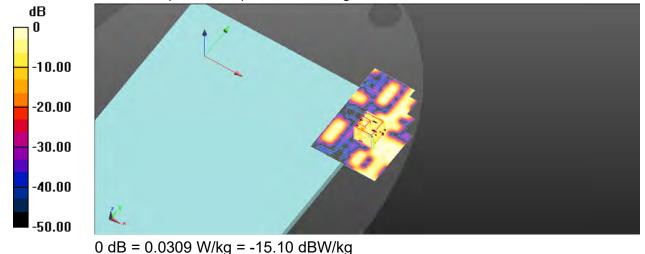
Reference Value = 3.538 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.0340 W/kg

SAR(1 g) = 0.00568 W/kg; SAR(10 g) = 0.00314 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid Ratio of SAR at M2 to SAR at M1 = 72.7%

Maximum value of SAR (measured) = 0.0309 W/kg



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Date: 2021/8/8

Report No. :EN/2021/70008 WLAN 802.11b, Body, Bottom Surface, CH 10, 0mm, Main Communication System: WLAN 2.45G; Frequency: 2457 MHz; Duty cycle= 1:105

Medium parameters used: f = 2457 MHz; σ = 1.821 S/m; ϵ_r = 38.241; ρ = 1000 kg/m³ Phantom section: Flat Section Ambient temperature: 22.4°C; Liquid temperature: 22.2°C

DASY5 Configuration:

- Probe: EX3DV4 SN7466; ConvF(8.08, 8.08, 8.08) @ 2457 MHz; Calibrated: 2021/1/29
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2021/3/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x121x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.0220 W/kg

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

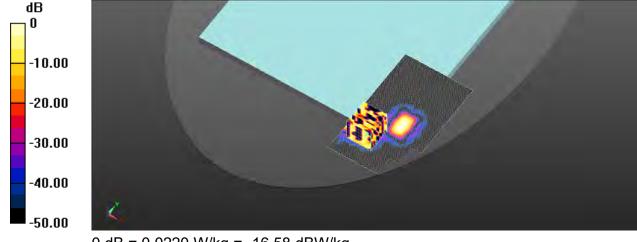
Reference Value = 2.662 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.0260 W/kg

SAR(1 g) = 0.00451 W/kg; SAR(10 g) = 0.00104 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid Ratio of SAR at M2 to SAR at M1 = 55%

Maximum value of SAR (measured) = 0.0259 W/kg



0 dB = 0.0220 W/kg = -16.58 dBW/kg

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Date: 2021/8/8

Report No. :EN/2021/70008 Bluetooth(GFSK), Body, Bottom Surface, CH 39, 0mm Main Communication System: Bluetooh; Frequency: 2441 MHz; Duty cycle= 1:3.436

Medium parameters used: f = 2441 MHz; σ = 1.804 S/m; ε_r = 38.272; ρ = 1000 kg/m³ Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.2°C

DASY5 Configuration:

- Probe: EX3DV4 SN7466; ConvF(8.08, 8.08, 8.08) @ 2441 MHz; Calibrated: 2021/1/29
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2021/3/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x101x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.00360 W/kg

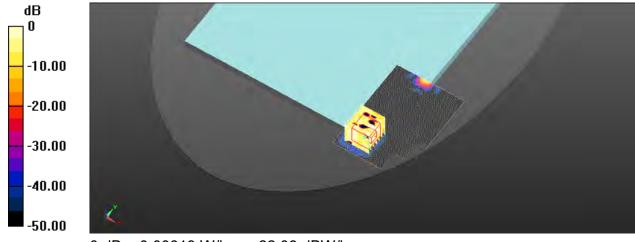
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.237 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.0150 W/kg

SAR(1 g) = 0.00137 W/kg; SAR(10 g) = 0.000582 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid Ratio of SAR at M2 to SAR at M1 = 71.1% Maximum value of SAR (measured) = 0.00619 W/kg



0 dB = 0.00619 W/kg = -22.08 dBW/kg

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Date: 2021/8/9

Report No. :EN/2021/70008 WLAN 802.11n(40M) 5.2G, Body, Bottom Surface, CH 46, 0mm, Main Communication System: WLAN 5G; Frequency: 5230 MHz; Duty cycle= 1:1.101 Medium parameters used: f = 5230 MHz; σ = 4.551 S/m; ε_r = 35.781; ρ = 1000 kg/m³ Phantom section: Flat Section Ambient temperature: 22.1°C; Liquid temperature: 21.7°C

DASY5 Configuration:

- Probe: EX3DV4 SN7466; ConvF(5.6, 5.6, 5.6) @ 5230 MHz; Calibrated: 2021/1/29
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2021/3/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x121x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.0492 W/kg

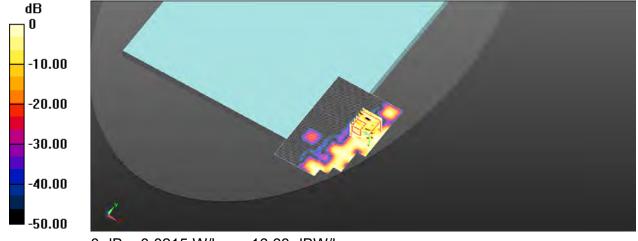
Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 2.565 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.0300 W/kg

SAR(1 g) = 0.00309 W/kg; SAR(10 g) = 0.00168 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid Ratio of SAR at M2 to SAR at M1 = 50.1% Maximum value of SAR (measured) = 0.0215 W/kg



0 dB = 0.0215 W/kg = -16.68 dBW/kg

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Date: 2021/8/9

Report No. :EN/2021/70008 WLAN 802.11n(40M) 5.3G, Body, Bottom Surface, CH 54, 0mm, Main Communication System: WLAN 5G; Frequency: 5270 MHz; Duty cycle= 1:1.101 Medium parameters used: f = 5270 MHz; σ = 4.608 S/m; ε_r = 35.696; ρ = 1000 kg/m³ Phantom section: Flat Section Ambient temperature: 22.3°C; Liquid temperature: 22.0°C

DASY5 Configuration:

- Probe: EX3DV4 SN7466; ConvF(5.5, 5.5, 5.5) @ 5270 MHz; Calibrated: 2021/1/29
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2021/3/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x121x1): Interpolated grid: dx=10 mm, dy=10 mm

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

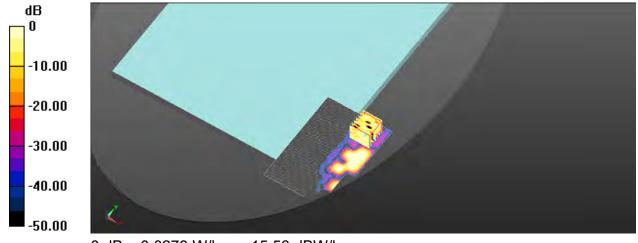
Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 3.588 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 0.0700 W/kg

SAR(1 g) = 0.011 W/kg; SAR(10 g) = 0.00573 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid Ratio of SAR at M2 to SAR at M1 = 46.4% Maximum value of SAR (measured) = 0.0278 W/kg



0 dB = 0.0278 W/kg = -15.56 dBW/kg

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Date: 2021/8/10

Report No. :EN/2021/70008 WLAN 802.11ac(80M) 5.6G, Body, Bottom Surface, CH 138, 0mm, Main Communication System: WLAN 5G; Frequency: 5690 MHz; Duty cycle= 1:1.163 Medium parameters used: f = 5690 MHz; σ = 5.151 S/m; ε_r = 34.889; ρ = 1000 kg/m³ Phantom section: Flat Section Ambient temperature: 22.0°C; Liquid temperature: 21.8°C

DASY5 Configuration:

- Probe: EX3DV4 SN7466; ConvF(5.04, 5.04, 5.04) @ 5690 MHz; Calibrated: 2021/1/29
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2021/3/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x121x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.0554 W/kg

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

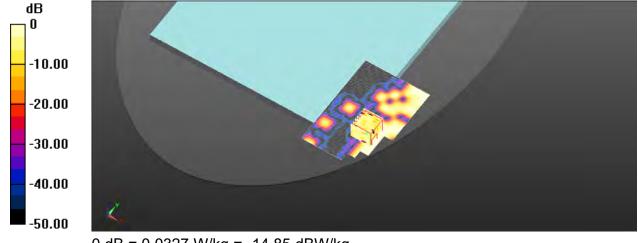
Reference Value = 4.893 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 0.159 W/kg

SAR(1 g) = 0.014 W/kg; SAR(10 g) = 0.00622 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid Ratio of SAR at M2 to SAR at M1 = 63.6%

Maximum value of SAR (measured) = 0.0327 W/kg



0 dB = 0.0327 W/kg = -14.85 dBW/kg

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Date: 2021/8/10

Report No. :EN/2021/70008 WLAN 802.11ac(80M) 5.8G, Body, Bottom Surface, CH 155, 0mm, Main Communication System: WLAN 5G; Frequency: 5775 MHz; Duty cycle= 1:1.163 Medium parameters used: f = 5775 MHz; σ = 5.265 S/m; ε_r = 34.742; ρ = 1000 kg/m³ Phantom section: Flat Section Ambient temperature: 22.3°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 SN7466; ConvF(5.02, 5.02, 5.02) @ 5775 MHz; Calibrated: 2021/1/29
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2021/3/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x121x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.0352 W/kg

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

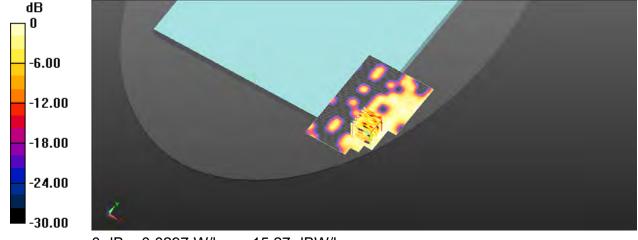
Reference Value = 4.156 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.0840 W/kg

SAR(1 g) = 0.0135 W/kg; SAR(10 g) = 0.00451 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid Ratio of SAR at M2 to SAR at M1 = 73%

Maximum value of SAR (measured) = 0.0297 W/kg



0 dB = 0.0297 W/kg = -15.27 dBW/kg

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6. SAR System Performance Verification

Date: 2021/8/1

Report No. :EN/2021/70008 Dipole 750 MHz, SN:1015

Communication System: CW; Frequency: 750 MHz; Duty cycle= 1:1 Medium parameters used: f = 750 MHz; σ = 0.909 S/m; ϵ_r = 42.002; ρ = 1000 kg/m³ Phantom section: Flat Section Ambient temperature: 21.9°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 SN7642; ConvF(10.64, 10.64, 10.64) @ 750 MHz; Calibrated: 2021/3/19:
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2021/4/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (41x141x1): Interpolated grid: dx=15 mm, dy=15 mm Maximum value of SAR (interpolated) = 2.54 W/kg

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

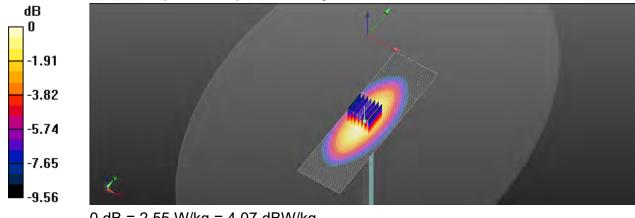
Reference Value = 52.18 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 2.97 W/kg

SAR(1 g) = 2.10 W/kg; SAR(10 g) = 1.39 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid Ratio of SAR at M2 to SAR at M1 = 69.1%

Maximum value of SAR (measured) = 2.55 W/kg



0 dB = 2.55 W/kg = 4.07 dBW/kg

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Date: 2021/8/2

Report No. :EN/2021/70008 Dipole 750 MHz, SN:1015

Communication System: CW; Frequency: 750 MHz; Duty cycle= 1:1 Medium parameters used: f = 750 MHz; σ = 0.914 S/m; ϵ_r = 42.118; ρ = 1000 kg/m³ Phantom section: Flat Section Ambient temperature: 22.2°C; Liquid temperature: 22.4°C

DASY5 Configuration:

- Probe: EX3DV4 SN7642; ConvF(10.64, 10.64, 10.64) @ 750 MHz; Calibrated: 2021/3/19;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2021/4/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (41x141x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 2.61 W/kg

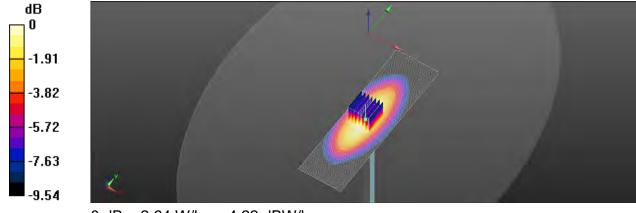
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 53.63 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 3.07 W/kg

SAR(1 g) = 2.12 W/kg; SAR(10 g) = 1.42 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid Ratio of SAR at M2 to SAR at M1 = 68.9%

Maximum value of SAR (measured) = 2.64 W/kg



0 dB = 2.64 W/kg = 4.22 dBW/kg

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Date: 2021/8/3

Report No. :EN/2021/70008 Dipole 835 MHz, SN:4d063

Communication System: CW; Frequency: 835 MHz; Duty cycle= 1:1 Medium parameters used: f = 835 MHz; σ = 0.901 S/m; ϵ_r = 41.605; ρ = 1000 kg/m³ Phantom section: Flat Section Ambient temperature: 22.5°C; Liquid temperature: 22.7°C

DASY5 Configuration:

- Probe: EX3DV4 SN7642; ConvF(10.37, 10.37, 10.37) @ 835 MHz; Calibrated: 2021/3/19
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2021/4/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (41x121x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 2.98 W/kg

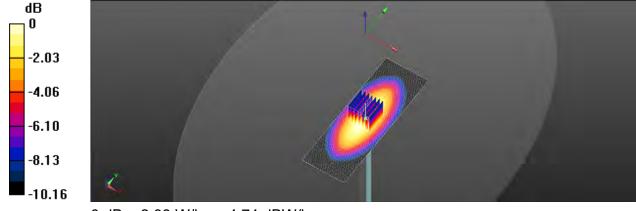
Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 59.16 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 3.45 W/kg

SAR(1 g) = 2.38 W/kg; SAR(10 g) = 1.58 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid Ratio of SAR at M2 to SAR at M1 = 68.8%

Maximum value of SAR (measured) = 2.98 W/kg



0 dB = 2.98 W/kg = 4.74 dBW/kg

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Date: 2021/8/4

Report No. :EN/2021/70008 Dipole 1750 MHz, SN:1008

Communication System: CW; Frequency: 1750 MHz; Duty cycle= 1:1 Medium parameters used: f = 1750 MHz; σ = 1.338 S/m; ε_r = 39.495; ρ = 1000 kg/m³ Phantom section: Flat Section Ambient temperature: 22.3°C; Liquid temperature: 22.5°C

DASY5 Configuration:

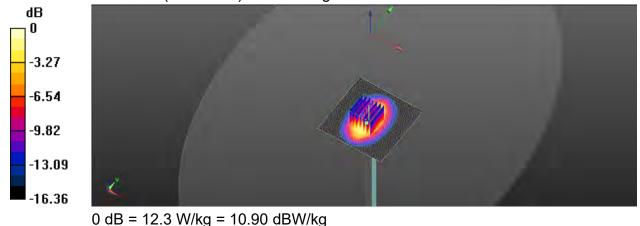
- Probe: EX3DV4 SN7642; ConvF(9.26, 9.26, 9.26) @ 1750 MHz; Calibrated: 2021/3/19
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2021/4/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x61x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 12.6 W/kg

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

Reference Value = 97.04 V/m; Power Drift = 0.03 dB Peak SAR (extrapolated) = 15.5 W/kg SAR(1 g) = 8.94 W/kg; SAR(10 g) = 4.72 W/kg Smallest distance from peaks to all points 3 dB below = 10 mm Ratio of SAR at M2 to SAR at M1 = 57.1% Maximum value of SAR (measured) = 12.3 W/kg



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Date: 2021/8/5

Report No. :EN/2021/70008 Dipole 1900 MHz, SN:5d173

Communication System: CW; Frequency: 1900 MHz; Duty cycle= 1:1 Medium parameters used: f = 1900 MHz; σ = 1.445 S/m; ε_r = 39.282; ρ = 1000 kg/m³ Phantom section: Flat Section Ambient temperature: 22.1°C; Liquid temperature: 22.3°C

DASY5 Configuration:

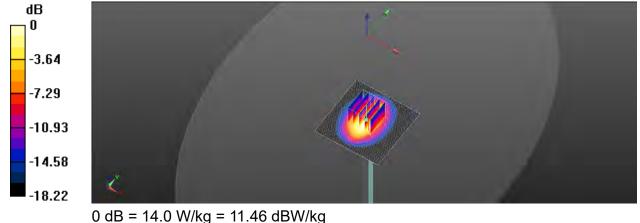
- Probe: EX3DV4 SN7642; ConvF(8.8, 8.8, 8.8) @ 1900 MHz; Calibrated: 2021/3/19
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2021/4/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x61x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 14.1 W/kg

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

Reference Value = 96.53 V/m; Power Drift = 0.09 dB Peak SAR (extrapolated) = 18.1 W/kg SAR(1 g) = 9.72 W/kg; SAR(10 g) = 5.03 W/kg Smallest distance from peaks to all points 3 dB below = 11.2 mm Ratio of SAR at M2 to SAR at M1 = 53.8% Maximum value of SAR (measured) = 14.0 W/kg



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Date: 2021/8/6

Report No. :EN/2021/70008 Dipole 2300 MHz, SN:1023

Communication System: CW; Frequency: 2300 MHz; Duty cycle= 1:1 Medium parameters used: f = 2300 MHz; σ = 1.679 S/m; ε_r = 39.657; ρ = 1000 kg/m³ Phantom section: Flat Section Ambient temperature: 21.8°C; Liquid temperature: 22.1°C

DASY5 Configuration:

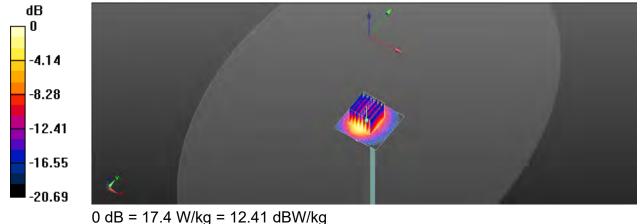
- Probe: EX3DV4 SN7642; ConvF(8.29, 8.29, 8.29) @ 2300 MHz; Calibrated: 2021/3/19
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2021/4/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x51x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 18.4 W/kg

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

Reference Value = 97.28 V/m; Power Drift = 0.05 dB Peak SAR (extrapolated) = 22.9 W/kg SAR(1 g) = 12.1 W/kg; SAR(10 g) = 5.86 W/kgSmallest distance from peaks to all points 3 dB below = 9.5 mm Ratio of SAR at M2 to SAR at M1 = 51% Maximum value of SAR (measured) = 17.4 W/kg



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Date: 2021/8/8

Report No. :EN/2021/70008 Dipole 2450 MHz, SN:727

Communication System: CW; Frequency: 2450 MHz; Duty cycle= 1:1 Medium parameters used: f = 2450 MHz; σ = 1.813 S/m; ε_r = 38.254; ρ = 1000 kg/m³ Phantom section: Flat Section Ambient temperature: 22.4°C; Liquid temperature: 22.2°C

DASY5 Configuration:

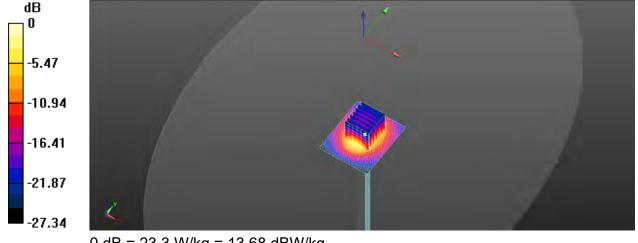
- Probe: EX3DV4 SN7466; ConvF(8.08, 8.08, 8.08) @ 2450 MHz; Calibrated: 2021/1/29
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2021/3/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x61x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 23.3 W/kg

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

Reference Value = 104.6 V/m; Power Drift = 0.04 dB Peak SAR (extrapolated) = 28.7 W/kg SAR(1 g) = 13.7 W/kg; SAR(10 g) = 6.32 W/kg Smallest distance from peaks to all points 3 dB below = 9.8 mm Ratio of SAR at M2 to SAR at M1 = 49.3% Maximum value of SAR (measured) = 21.3 W/kg



0 dB = 23.3 W/kg = 13.68 dBW/kg

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Date: 2021/8/6

Report No. :EN/2021/70008 Dipole 2600 MHz, SN:1005

Communication System: CW; Frequency: 2600 MHz; Duty cycle= 1:1 Medium parameters used: f = 2600 MHz; σ = 1.949 S/m; ε_r = 38.764; ρ = 1000 kg/m³ Phantom section: Flat Section Ambient temperature: 21.6°C; Liquid temperature: 21.9°C

DASY5 Configuration:

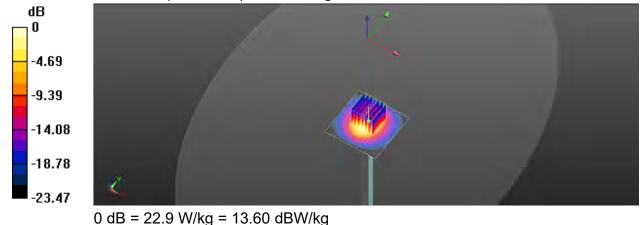
- Probe: EX3DV4 SN7642; ConvF(7.9, 7.9, 7.9) @ 2600 MHz; Calibrated: 2021/3/19
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2021/4/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x61x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 23.9 W/kg

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

Reference Value = 109.3 V/m; Power Drift = 0.06 dB Peak SAR (extrapolated) = 31.4 W/kg SAR(1 g) = 13.8 W/kg; SAR(10 g) = 6.42 W/kgSmallest distance from peaks to all points 3 dB below = 9 mm Ratio of SAR at M2 to SAR at M1 = 47.9% Maximum value of SAR (measured) = 22.9 W/kg



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Date: 2021/8/7

Report No. :EN/2021/70008 Dipole 2600 MHz, SN:1005

Communication System: CW; Frequency: 2600 MHz; Duty cycle= 1:1 Medium parameters used: f = 2600 MHz; σ = 1.958 S/m; ε_r = 38.752; ρ = 1000 kg/m³ Phantom section: Flat Section Ambient temperature: 21.4°C; Liquid temperature: 21.7°C

DASY5 Configuration:

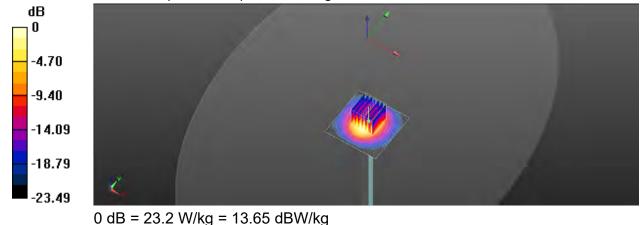
- Probe: EX3DV4 SN7642; ConvF(7.9, 7.9, 7.9) @ 2600 MHz; Calibrated: 2021/3/19
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2021/4/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x61x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 24.2 W/kg

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

Reference Value = 109.2 V/m; Power Drift = 0.03 dB Peak SAR (extrapolated) = 31.9 W/kg SAR(1 g) = 13.9 W/kg; SAR(10 g) = 6.44 W/kg Smallest distance from peaks to all points 3 dB below = 9 mm Ratio of SAR at M2 to SAR at M1 = 47.8% Maximum value of SAR (measured) = 23.2 W/kg



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Date: 2021/8/9

Report No. :EN/2021/70008 Dipole 5200 MHz, SN:1023

Communication System: CW; Frequency: 5200 MHz; Duty cycle= 1:1 Medium parameters used: f = 5200 MHz; σ = 4.509 S/m; ε_r = 35.909; ρ = 1000 kg/m³ Phantom section: Flat Section Ambient temperature: 22.1°C; Liquid temperature: 21.7°C

DASY5 Configuration:

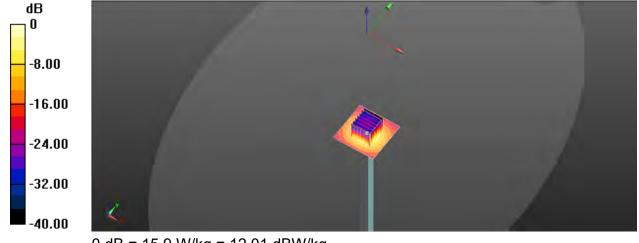
- Probe: EX3DV4 SN7466; ConvF(5.6, 5.6, 5.6) @ 5200 MHz; Calibrated: 2021/1/29
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2021/3/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x51x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 15.8 W/kg

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

Reference Value = 58.87 V/m; Power Drift = 0.01 dB Peak SAR (extrapolated) = 30.7 W/kg SAR(1 g) = 7.52 W/kg; SAR(10 g) = 2.21 W/kgSmallest distance from peaks to all points 3 dB below = 7.5 mm Ratio of SAR at M2 to SAR at M1 = 56.2% Maximum value of SAR (measured) = 15.9 W/kg



0 dB = 15.9 W/kg = 12.01 dBW/kg

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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Date: 2021/8/9

Report No. :EN/2021/70008 Dipole 5300 MHz, SN:1023

Communication System: CW; Frequency: 5300 MHz; Duty cycle= 1:1 Medium parameters used: f = 5300 MHz; σ = 4.651 S/m; ε_r = 35.627; ρ = 1000 kg/m³ Phantom section: Flat Section Ambient temperature: 22.3°C; Liquid temperature: 22.0°C

DASY5 Configuration:

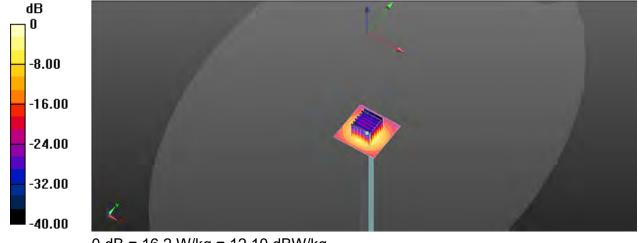
- Probe: EX3DV4 SN7466; ConvF(5.5, 5.5, 5.5) @ 5300 MHz; Calibrated: 2021/1/29
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2021/3/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x51x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 16.6 W/kg

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

Reference Value = 61.25 V/m; Power Drift = -0.15 dB Peak SAR (extrapolated) = 32.5 W/kg SAR(1 g) = 7.79 W/kg; SAR(10 g) = 2.22 W/kgSmallest distance from peaks to all points 3 dB below = 7.2 mm Ratio of SAR at M2 to SAR at M1 = 54.1% Maximum value of SAR (measured) = 16.2 W/kg



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

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Date: 2021/8/10

Report No. :EN/2021/70008 Dipole 5600 MHz, SN:1023

Communication System: CW; Frequency: 5600 MHz; Duty cycle= 1:1 Medium parameters used: f = 5600 MHz; σ = 5.039 S/m; ε_r = 35.106; ρ = 1000 kg/m³ Phantom section: Flat Section Ambient temperature: 22.0°C; Liquid temperature: 21.8°C

DASY5 Configuration:

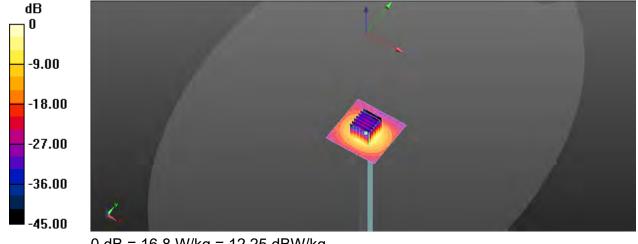
- Probe: EX3DV4 SN7466; ConvF(5.04, 5.04, 5.04) @ 5600 MHz; Calibrated: 2021/1/29
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2021/3/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x61x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 16.4 W/kg

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

Reference Value = 61.82 V/m; Power Drift = -0.04 dB Peak SAR (extrapolated) = 34.7 W/kg SAR(1 g) = 8.24 W/kg; SAR(10 g) = 2.4 W/kgSmallest distance from peaks to all points 3 dB below = 7.4 mm Ratio of SAR at M2 to SAR at M1 = 51.7% Maximum value of SAR (measured) = 16.8 W/kg



0 dB = 16.8 W/kg = 12.25 dBW/kg

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Date: 2021/8/10

Report No. : EN/2021/70008 Dipole 5800 MHz, SN:1023

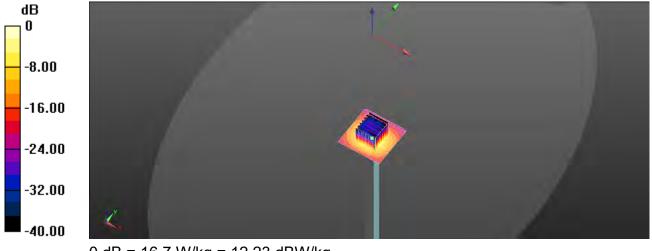
Communication System: CW; Frequency: 5800 MHz; Duty cycle= 1:1 Medium parameters used: f = 5800 MHz; σ = 5.315 S/m; ϵ_r = 34.685; ρ = 1000 kg/m³ Phantom section: Flat Section Ambient temperature: 22.3°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 SN7466; ConvF(5.02, 5.02, 5.02) @ 5800 MHz; Calibrated: 2021/1/29
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2021/3/1
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)
- Area Scan (51x51x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 16.2 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm Reference Value = 56.98 V/m; Power Drift = 0.12 dB Peak SAR (extrapolated) = 36.3 W/kg SAR(1 g) = 7.9 W/kg; SAR(10 g) = 2.22 W/kg Smallest distance from peaks to all points 3 dB below = 7.4 mm Ratio of SAR at M2 to SAR at M1 = 51.1% Maximum value of SAR (measured) = 16.7 W/kg



0 dB = 16.7 W/kg = 12.23 dBW/kg

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7. Uncertainty Budget

A	с	D	е		f	g	h=c * f / e	i=c * g / e	k
Source of Uncertainty	Tolerance/ Uncertainty	Probabilit V	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%	00
Isotropy , Axial	3.50%	R	√3	1.732	1	1	2.02%	2.02%	00
lsotropy, Hemispherical	9.60%	R	√3	1.732	1	1	5.54%	5.54%	00
Modulation Response	2.40%	R	√3	1.732	1	1	1.40%	1.40%	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Boundary Effect	1.00%	R	√3	1.732	1	1	0.58%	0.58%	00
Linearity	4.70%	R	√3	1.732	1	1	2.71%	2.71%	00
Detection Limits	1.00%	R	√3	1.732	1	1	0.58%	0.58%	00
Readout Electronics	0.30%	Ν	1	1	1	1	0.30%	0.30%	00
Response time	0.80%	R	√3	1.732	1	1	0.46%	0.46%	00
Integration Time	2.60%	R	√3	1.732	1	1	1.50%	1.50%	00
Measurement drift (class A evaluation)	1.75%	R	√3	1.732	1	1	1.01%	1.01%	00
RF ambient condition - noise	3.00%	R	√3	1.732	1	1	1.73%	1.73%	00
RF ambient conditions - reflections	3.00%	R	√3	1.732	1	1	1.73%	1.73%	00
Probe positioner Mechanical restrictions	0.40%	R	√3	1.732	1	1	0.23%	0.23%	00
Probe Positioning with respect to phantom	2.90%	R	√3	1.732	1	1	1.67%	1.67%	00
Post-processing	1.00%	R	√3	1.732	1	1	0.58%	0.58%	00
Max SAR Eval	1.00%	R	√3	1.732	1	1	0.58%	0.58%	00
Test Sample related									
Test sample positioning	2.90%	N	1	1	1	1	2.90%	2.90%	M-1
Device Holder Uncertainty	3.60%	N	1	1	1	1	3.60%	3.60%	M-1
Drift of output power	5.00%	R	√3	1.732	1	1	2.89%	2.89%	00
Phantom and Setup									
Phantom Uncertainty	4.00%	R	√3	1.732	1	1	2.31%	2.31%	00
Liquid permittivity (mea.)	2.65%	N	1	1	0.64	0.43	1.70%	1.14%	м
Liquid Conductivity (mea.)	2.92%	N	1	1	0.6	0.49	1.75%	1.43%	М
Combined standard uncertainty		RSS					11.97%	11.85%	
Expant uncertainty (95% confidence							23.93%	23.70%	

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

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

A	с	D	е		f	g	h=c * f / e	i=c * g / e	k
Source of Uncertainty	Tolerance/ Uncertainty	Probability Distributio	Div	Div Value	ci (1g)	ci (10g)	Standard uncertainty	Standard uncertainty	vi, or Veff
Measurement system									
Probe calibration	6.00%	N	1	1	1	1	6.00%	6.00%	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
lsotropy , Axial	3.50%	R	√3	1.732	1	1	2.02%	2.02%	8
lsotropy, Hemispherical	9.60%	R	√3	1.732	1	1	5.54%	5.54%	8
Modulation Response	2.40%	R	√3	1.732	1	1	1.40%	1.40%	8
Boundary Effect	1.00%	R	√3	1.732	1	1	0.58%	0.58%	~
Linearity	4.70%	R	√3	1.732	1	1	2.71%	2.71%	×
Detection Limits	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Readout Electronics	0.30%	N	1	1	1	1	0.30%	0.30%	×
Response time	0.80%	R	√3	1.732	1	1	0.46%	0.46%	×
Integration Time	2.60%	R	√3	1.732	1	1	1.50%	1.50%	~
Measurement drift (class A evaluation)	1.75%	R	√3	1.732	1	1	1.01%	1.01%	∞
RF ambient condition -	3.00%	R	√3	1.732	1	1	1.73%	1.73%	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
RF ambient conditions - reflections	3.00%	R	√3	1.732	1	1	1.73%	1.73%	×
Probe positioner Mechanical restrictions	0.40%	R	√3	1.732	1	1	0.23%	0.23%	×
Probe Positioning with respect to phantom shell	2.90%	R	√3	1.732	1	1	1.67%	1.67%	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Post-processing	1.00%	R	√3	1.732	1	1	0.58%	0.58%	8
Max SAR Eval	1.00%	R	√3	1.732	1	1	0.58%	0.58%	~
Test Sample related									
Test sample positioning	2.90%	N	1	1	1	1	2.90%	2.90%	M-1
Device Holder Uncertainty	3.60%	N	1	1	1	1	3.60%	3.60%	M-1
Drift of output power	5.00%	R	√3	1.732	1	1	2.89%	2.89%	~
Phantom and Setup									
Phantom Uncertainty	4.00%	R	√3	1.732	1	1	2.31%	2.31%	~
Liquid permittivity (mea.)	4.35%	N	1	1	0.64	0.43	2.78%	1.87%	М
Liquid Conductivity (mea.)	4.78%	N	1	1	0.6	0.49	2.87%	2.34%	М
Combined standard uncertainty		RSS					12.10%	11.80%	
Expant uncertainty (95% confidence interval), K=2							24.19%	23.59%	

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Refer to separated files for the following appendixes.

EN202170008 SAR_Appendix A Photographs

EN202170008 SAR_Appendix B DAE & Probe Cal. Certificate

EN202170008 SAR_Appendix C Phantom Description & Dipole Cal. Certificate

- End of report -

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