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SAR TEST REPORT





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

Equipment Under Test Tablet
Brand Name HP

Model No. HSN-I06C Company Name HP Inc.

Company Address 3390 East Harmony Road Fort Collins, Colorado 80528

United States

Standards IEEE /ANSI C95.1 , C95.3, IEEE 1528 2013,

KDB616217D04v01r02,KDB865664D01v01r04, KDB865664D02v01r02,KDB941225D01v03r01, KDB941225D05v02r05,KDB447498D01v06,

KDB248227D01v02r02

FCC ID B94HNI06CAM

Date of Receipt Sep. 09, 2016

Date of Test(s) Sep. 26, 2016 ~ Nov. 02, 2016

Date of Issue Nov. 24, 2016

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

Remarks:

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

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS Taiwan Electronic & Communication Laboratory or testing done by SGS Taiwan Electronic & Communication Laboratory in connection with distribution or use of the product described in this report must be approved by SGS Taiwan Electronic & Communication Laboratory in writing.

Signed on behalf of SGS	
Sr. Engineer	Supervisor
afor Chen	John Teh
Afu Chen	John Yeh
Date: Nov. 24. 2016	Date: Nov. 24, 2016

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Revision History

Report Number	Revision	Description	Issue Date
EN/2016/90014	Rev.00	Initial creation of document	Nov. 11, 2016
EN/2016/90014	Rev.01	1 st modification	Nov. 22, 2016
EN/2016/90014	Rev.02	2 nd modification	Nov. 24, 2016

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1. General Information

1.1 Testing Laboratory

SGS Taiwan L	SGS Taiwan Ltd. Electronics & Communication Laboratory					
1F, No 8, alley	1F, No 8, alley15, Lane120, Sec 1, NeiHu Road, NeiHu District, Taipei City 11446,					
Taiwan	Taiwan					
Tel	+886-2-2299-3279					
Fax	+886-2-2298-0488					
Internet	http://www.tw.sgs.com/					

1.2 Details of Applicant

Company Name	HP Inc.
Company Address	3390 East Harmony Road Fort Collins, Colorado 80528 United States

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1.3 Description of EUT

Equipment Under Test	Tablet	
Brand Name	HP	
Model No.	HSN-I06C	
Integrated Module	VVVVAN	Brand Name : FOXCONN Model Name : T77W595
integrated Module	IVVI ANI/B I	Brand Name : Intel Model Name : 8265D2W
Antenna type	PIFA	
Antenna Gain	-3.97dBi (for LTE B12/LTE B17 -1.07dBi (for LTE B13) -0.65dBi (for GPRS850/EDGE8 BC0/LTE B5) -1.69dBi (for WCDMA B4/LTE -1.22dBi (for GPRS1900/EDGB BC1/LTE B2) -3.08dBi (for LTE B7)	850/WCDMA B5/CDMA B4)
FCC ID	B94HNI06CAM	
Mode of Operation	□ GPRS □ EDGE □ WCD □ LTE □ CDMA 1xRTT □ CDMA 1x EVDO Rev.0/ Rev.	
	GPRS	1/2 (1Dn4UP) 1/2.76 (1Dn3UP) 1/4.1 (1Dn2UP) 1/8.3 (1Dn1UP)
Duty Cycle	EDGE	1/2 (1Dn4UP) 1/2.76 (1Dn3UP) 1/4.1 (1Dn2UP) 1/8.3 (1Dn1UP)
	WCDMA	1
	LTE	1
	CDMA 1xRTT/ EVDO Rev.0/ Rev. A	1

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	GPRS850	824.2		848.8
	GPRS1900	1850.2	_	1909.8
	WCDMA Band II	1852.4	_	1909.6
			_	
	WCDMA Band IV	1712.4	_	1752.6
	WCDMA Band V	826.4		846.6
	LTE FDD Band II	1850		1910
TX Frequency Range (MHz)	LTE FDD Band IV	1710		1755
(1411 12)	LTE FDD Band V	824	_	849
	LTE FDD Band VII	2500	_	2570
	LTE FDD Band XII	699	_	716
	LTE FDD Band XIII	777		787
	LTE FDD Band XVII	704	_	716
	CDMA (BC0)	824.7	_	848.31
	CDMA (BC1)	1851.25	_	1908.75
	GPRS850	128		251
	GPRS1900	512	_	810
	WCDMA Band II	9262	_	9538
	WCDMA Band IV	1312	_	1513
	WCDMA Band V	4132	_	4233
	LTE FDD Band II	18607	_	19193
Channel Number	LTE FDD Band IV	19957	_	20393
(ARFCN)	LTE FDD Band V	20407	_	20643
	LTE FDD Band VII	20775	_	21425
	LTE FDD Band XII	23007	_	23173
	LTE FDD Band XIII	23205	_	23255
	LTE FDD Band XVII	23755	_	23825
	CDMA (BC0)	1013	_	777
	CDMA (BC1)	25	_	1175

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Max. SAR (1 g) (Unit: W/Kg)							
Band	Measured	Reported	Channel	Position	Highest * Simultaneous Transmission 1g SAR(W/kg)		
GPRS 850	1.240	1.249	251	Back side			
GRPS 1900	1.120	1.136	810	Back side			
WCDMA Band II	0.978	1.085	9262	Back side			
WCDMA Band IV	1.220	1.223	1412	Back side			
WCDMA Band V	1.050	1.178	4183	Back side			
LTE FDD Band II	1.020	1.051	19100	Back side			
LTE FDD Band IV	1.200	1.225	20300	Back side	1.27 (WWAN) 0.961 (WLAN Main)		
LTE FDD Band V	1.190	1.258	20600	Back side	1.032 (WLAN Aux)		
LTE FDD Band VII	1.110	1.160	21350	Back side			
LTE FDD Band XII	1.130	1.208	23130	Back side			
LTE FDD Band XIII	1.090	1.176	23230	Back side			
LTE FDD Band XVII	1.170	1.257	23800	Back side			
CDMA (BC0)	1.000	1.143	1013	Back side			
CDMA (BC1)	1.270	1.270	1175	Back side			

^{*}The highest simultaneous transmission SAR sum is 3.263, and SPLSR is ≤ 0.04 for all simultaneous configurations.

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GPRS/EDGE conducted power table (Full power):

Burst average power							
Max. Rated Avg. Power + Max. Tolerance (dBm)			33.5	33	31	29	
			1Dn1UP	1Dn2UP	1Dn3UP	1Dn4UP	
EUT mode	Frequency (MHz)	СН	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	
GPRS	824.2	128	33.28	32.95	30.22	28.47	
850	836.6	190	33.27	32.96	30.56	28.43	
848.8		251	33.20	32.90	30.46	28.84	
		S	ource-based tim	e average powe	er		
GPRS	824.2	128	24.25	26.93	25.96	25.46	
850	836.6	190	24.24	26.94	26.30	25.42	
830	848.8	251	24.17	26.88	26.20	25.83	
The division factor compared to the number of TX time slot							
Division factor			1 TX time slot -9.03	2 TX time slot -6.02	3 TX time slot -4.26	4 TX time slot -3.01	

Burst average power							
Max. Rated Avg. Power + Max. Tolerance (dBm)			27.5	26.5	26.5	24.5	
			1Dn1UP	1Dn2UP	1Dn3UP	1Dn4UP	
EUT mode	Frequency (MHz)	СН	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	
EDGE	824.2	128	27.17	26.49	26.32	24.28	
850	836.6	190	27.15	26.46	26.35	24.23	
(MCS5)	848.8	251	27.18	26.42	26.25	24.25	
		S	ource-based tim	e average powe	er		
EDGE	824.2	128	18.14	20.47	22.06	21.27	
850	836.6	190	18.12	20.44	22.09	21.22	
(MCS5)	848.8	251	18.15	20.40	21.99	21.24	
	The division factor compared to the number of TX time slot						
Div	Division factor		1 TX time slot	2 TX time slot	3 TX time slot	4 TX time slot	
	Alsion lactor		-9.03	-6.02	-4.26	-3.01	

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Burst average power							
Max. Rated Avg. Power + Max. Tolerance (dBm)		31	30	28	26		
			1Dn1UP	1Dn2UP	1Dn3UP	1Dn4UP	
EUT mode	Frequency (MHz)	СН	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	
GPRS	1850.2	512	30.35	29.97	27.86	25.72	
1900	1880	661	30.03	29.94	27.56	25.56	
1900 1909.8		810	30.25	29.91	27.79	25.78	
		S	ource-based tim	e average powe	er		
GPRS	1850.2	512	21.32	23.95	23.60	22.71	
1900	1880	661	21.00	23.92	23.30	22.55	
1900	1909.8	810	21.22	23.89	23.53	22.77	
The division factor compared to the number of TX time slot							
Div	Division factor			2 TX time slot -6.02	3 TX time slot -4.26	4 TX time slot -3.01	

Burst average power							
Max. Rated Avg. Power + Max. Tolerance (dBm)		26.5	25.5	25.5	23.5		
			1Dn1UP	1Dn2UP	1Dn3UP	1Dn4UP	
EUT mode	Frequency (MHz)	СН	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	
EDGE	1850.2	512	26.40	25.31	25.25	23.13	
1900	1880	661	26.13	25.08	25.44	23.48	
(MCS5)	1909.8	810	26.26	25.16	25.16	23.09	
		S	ource-based tim	e average powe	er		
EDGE	1850.2	512	17.37	19.29	20.99	20.12	
1900	1880	661	17.10	19.06	21.18	20.47	
(MCS5)	1909.8	810	17.23	19.14	20.90	20.08	
	The division factor compared to the number of TX time slot						
Division factor				2 TX time slot			
			-9.03	-6.02	-4.26	-3.01	

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GPRS/EDGE conducted power table (Reduced power):

			Burst avera	age power		
	ted Avg. Pow olerance (dBr		28.5	27.5	25	23
			1Dn1UP	1Dn2UP	1Dn3UP	1Dn4UP
EUT mode	mode Frequency CH		Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)
GPRS	824.2	128	28.08	27.42	24.86	22.60
850	836.6	190	28.07	27.49	25.00	22.72
650	848.8 25		27.96	27.47	25.93	22.80
		S	ource-based tim	e average power	er	
GPRS	824.2	128	19.05	21.40	20.60	19.59
850	836.6	190	19.04	21.47	20.74	19.71
650	848.8	251	18.93	21.45	21.67	19.79
	The div	ision fa	actor compared	to the number of	of TX time slot	
Div	vision factor	•	1 TX time slot	2 TX time slot	3 TX time slot	4 TX time slot
	vision lactor		-9.03	-6.02	-4.26	-3.01

			Burst avera	age power			
	ted Avg. Pow olerance (dBr		26.5	24.5	24.5	22	
			1Dn1UP	1Dn2UP	1Dn3UP	1Dn4UP	
EUT mode	Frequency (MHz) CH		Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	
EDGE	824.2	128	26.30	24.10	24.01	21.87	
850	836.6 190		26.24	24.09	24.10	21.93	
(MCS5)	848.8	251	26.33	24.17	24.10	21.92	
		S	ource-based tim	e average power	er		
EDGE	824.2	128	17.27	18.08	19.75	18.86	
850	836.6	190	17.21	18.07	19.84	18.92	
(MCS5)	848.8	251	17.30	18.15	19.84	18.91	
	The div	ision fa	actor compared	to the number of	of TX time slot		
Div	ision factor				3 TX time slot		
			-9.03	-6.02	-4.26	-3.01	

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			Burst avera	age power			
	ted Avg. Pow olerance (dBr		27	25.5	23.5	21.5	
			1Dn1UP	1Dn2UP	1Dn3UP	1Dn4UP	
EUT mode	Frequency CH		Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	
GPRS	ODDO 1850.2 512		26.96	25.47	23.22	21.16	
1900	1880 661		26.85	25.41	23.11	21.08	
1900	1909.8	810	26.93	25.44	23.21	21.14	
		S	ource-based time average power				
GPRS	1850.2	512	17.93	19.45	18.96	18.15	
1900	1880	661	17.82	19.39	18.85	18.07	
1900	1909.8	810	17.90	19.42	18.95	18.13	
	The div	ision fa	actor compared	to the number of	of TX time slot		
Div	ision factor		1 TX time slot -9.03	2 TX time slot -6.02	3 TX time slot -4.26	4 TX time slot -3.01	

			Burst avera	age power		
	ted Avg. Powe olerance (dBr		24.5	23	23	21
			1Dn1UP	1Dn2UP	1Dn3UP	1Dn4UP
EUT mode	e Frequency CH		Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)
EDGE	1850.2	512	24.35	22.87	22.75	20.61
1900	1880 661		24.10	22.54	22.79	20.66
(MCS5)	1909.8	810	24.32	22.72	22.65	20.62
_		S	ource-based tim	e average power	er	
EDGE	1850.2	512	15.32	16.85	18.49	17.60
1900	1880	661	15.07	16.52	18.53	17.65
(MCS5)	1909.8	810	15.29	16.70	18.39	17.61
	The div	ision fa	actor compared	to the number of	f TX time slot	
Div	ision factor			2 TX time slot		
	10.011 100.01		-9.03	-6.02	-4.26	-3.01

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WCDMA Band II / Band IV / Band V - HSDPA / HSUPA conducted power table (Full power):

	Band		WCDMA II			
	TX Channel	9262	9400	9538		
F	requency (MHz)	1852.4	1880	1907.6		
Max. Rated Avg.	Power+Max. Tolerance (dBm)		24.50			
3GPP Rel 99	RMC 12.2Kbps	23.86	24.07	24.24		
Max. Rated Avg.	Power+Max. Tolerance (dBm)		23.50			
	HSDPA Subtest-1	22.87	22.93	23.31		
3GPP Rel 5	HSDPA Subtest-2	22.81	22.88	23.15		
JGFF Kers	HSDPA Subtest-3	22.39	22.43	22.72		
	HSDPA Subtest-4	22.31	22.41	22.67		
	HSUPA Subtest-1	22.81	23.04	23.15		
	HSUPA Subtest-2	22.33	22.52	22.65		
3GPP Rel 6	HSUPA Subtest-3	22.76	23.00	23.01		
	HSUPA Subtest-4	22.41	22.48	22.60		
	HSUPA Subtest-5	22.84	23.07	23.26		

	Band		WCDMA IV	,
	TX Channel	1312	1412	1513
F	requency (MHz)	1712.4	1732.4	1752.6
Max. Rated Avg.	Power+Max. Tolerance (dBm)		24.50	
3GPP Rel 99	RMC 12.2Kbps	24.12	24.46	24.24
Max. Rated Avg.	Power+Max. Tolerance (dBm)		23.50	
	HSDPA Subtest-1	23.22	23.32	23.27
3GPP Rel 5	HSDPA Subtest-2	23.18	23.24	23.21
SGPP Rei S	HSDPA Subtest-3	22.74	22.76	22.79
	HSDPA Subtest-4	22.71	22.71	22.75
	HSUPA Subtest-1	23.36	23.41	23.41
	HSUPA Subtest-2	22.91	22.93	22.94
3GPP Rel 6	HSUPA Subtest-3	23.28	23.35	23.19
	HSUPA Subtest-4	23.22	23.30	23.25
	HSUPA Subtest-5	23.42	23.45	23.43

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	Band		WCDMA V			
	TX Channel	4132	4183	4233		
F	requency (MHz)	826.4	836.6	846.6		
Max. Rated Avg.	Power+Max. Tolerance (dBm)		24.50			
3GPP Rel 99	RMC 12.2Kbps	24.16	24.26	24.37		
Max. Rated Avg.	Power+Max. Tolerance (dBm)	23.50				
	HSDPA Subtest-1	23.12	23.17	23.22		
3GPP Rel 5	HSDPA Subtest-2	23.10	23.14	23.19		
SGFF Rei S	HSDPA Subtest-3	22.66	22.69	22.73		
	HSDPA Subtest-4	22.64	22.65	22.71		
	HSUPA Subtest-1	23.01	23.29	23.43		
	HSUPA Subtest-2	22.52	22.67	22.49		
3GPP Rel 6	HSUPA Subtest-3	22.84	23.01	23.05		
	HSUPA Subtest-4	22.51	22.65	22.44		
	HSUPA Subtest-5	23.05	23.33	23.48		

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WCDMA Band II / Band IV / Band V - HSDPA / HSUPA conducted power table (Reduced power):

	Band		WCDMA II	
	TX Channel	9262	9400	9538
F	requency (MHz)	1852.4	1880	1907.6
Max. Rated Avg.	Power+Max. Tolerance (dBm)		18.50	
3GPP Rel 99	RMC 12.2Kbps	18.05	18.22	18.48
Max. Rated Avg.	Power+Max. Tolerance (dBm)		17.50	
	HSDPA Subtest-1	17.12	17.35	17.49
3GPP Rel 5	HSDPA Subtest-2	17.10	17.31	17.44
JGFF Kers	HSDPA Subtest-3	16.63	16.72	16.78
	HSDPA Subtest-4	16.61	16.67	16.72
	HSUPA Subtest-1	17.05	17.34	17.41
	HSUPA Subtest-2	16.32	16.38	16.42
3GPP Rel 6	HSUPA Subtest-3	16.89	16.92	16.99
	HSUPA Subtest-4	16.31	16.32	16.33
	HSUPA Subtest-5	17.09	17.38	17.45

	Band		WCDMA IV	1
	TX Channel	1312	1412	1513
F	requency (MHz)	1712.4	1732.4	1752.6
Max. Rated Avg.	Power+Max. Tolerance (dBm)		18.50	
3GPP Rel 99	RMC 12.2Kbps	18.27	18.49	18.45
Max. Rated Avg.	Power+Max. Tolerance (dBm)		17.50	
	HSDPA Subtest-1	17.32	17.48	17.50
3GPP Rel 5	HSDPA Subtest-2	17.31	17.45	17.44
SGPP Rei S	HSDPA Subtest-3	16.85	16.81	16.84
	HSDPA Subtest-4	16.81	16.82	16.79
	HSUPA Subtest-1	17.44	17.43	17.48
	HSUPA Subtest-2	16.93	16.91	16.84
3GPP Rel 6	HSUPA Subtest-3	17.24	17.21	17.15
	HSUPA Subtest-4	16.91	16.85	16.81
	HSUPA Subtest-5	17.45	17.49	17.48

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	Band		WCDMA V	
	TX Channel	4132	4183	4233
F	requency (MHz)	826.4	836.6	846.6
Max. Rated Avg.	Power+Max. Tolerance (dBm)		20.00	
3GPP Rel 99	RMC 12.2Kbps	19.38	19.50	19.65
Max. Rated Avg.	Power+Max. Tolerance (dBm)	19.00		
	HSDPA Subtest-1	18.45	18.51	18.72
3GPP Rel 5	HSDPA Subtest-2	18.41	18.47	18.68
3GFF Kei 3	HSDPA Subtest-3	17.93	17.98	18.02
	HSDPA Subtest-4	17.91	17.92	17.98
	HSUPA Subtest-1	18.14	18.17	18.61
	HSUPA Subtest-2	17.63	17.42	17.48
3GPP Rel 6	HSUPA Subtest-3	17.95	17.97	17.85
	HSUPA Subtest-4	17.52	17.35	17.47
	HSUPA Subtest-5	18.48	18.55	18.62

Sub-Test for HSDPA

SUB-TEST	β_{c}	β_{d}	β _d (SF)	β_c/β_d	β _{HS} (Note 1, Note 2)	CM (dB) (Note 3)	MPR (dB) (Note 3)
1	2/15	15/15	64	2/15	4/15	0.0	0.0
2	12/15	15/15	64	12/15	24/15	1.0	0.0
3	15/15	8/15	64	15/8	30/15	1.5	0.5
4	15/15	4/15	64	15/4	30/15	1.5	0.5

Sub-Test for HSUPA

SUB-TEST	βς	β _d	β _d (SF)	β _o /β _d	β _{HS} (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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LTE FDD Band II/ Band IV/ Band VI Band VII/ Band XIII/ Band XVII power table:

FDD Band 2 (Full Power)										
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)		
				1860	18700	23.62	24	0		
			0	1880	18900	23.43	24	0		
				1900	19100	23.40	24	0		
				1860	18700	23.28	24	0		
		1 RB	50	1880	18900	23.27	24	0		
	QPSK			1900	19100	23.45	24	0		
				1860	18700	23.27	24	0		
			99	1880	18900	23.53	24	0		
				1900	19100	23.43	24	0		
		50 RB		1860	18700	22.44	23	0-1		
			0	1880	18900	22.41	23	0-1		
				1900	19100	22.54	23	0-1		
				1860	18700	22.30	23	0-1		
			25	1880	18900	22.42	23	0-1		
				1900	19100	22.44	23	0-1		
				1860	18700	22.26	23	0-1		
			50	1880	18900	22.55	23	0-1		
				1900	19100	22.46	23	0-1		
				1860	18700	22.40	23	0-1		
		100)RB	1880	18900	22.54	23	0-1		
20				1900	19100	22.52	23	0-1		
20				1860	18700	22.70	23	0-1		
			0	1880	18900	22.11	23	0-1		
				1900	19100	22.63	23	0-1		
				1860	18700	22.39	23	0-1		
		1 RB	50	1880	18900	22.02	23	0-1		
				1900	19100	22.62	23	0-1		
				1860	18700	22.06	23	0-1		
			99	1880	18900	22.68	23	0-1		
				1900	19100	22.31	23	0-1		
				1860	18700	21.30	22	0-2		
	16-QAM		0	1880	18900	21.18	22	0-2		
				1900	19100	21.48	22	0-2		
				1860	18700	21.19	22	0-2		
		50 RB	25	1880	18900	21.30	22	0-2		
				1900	19100	21.36	22	0-2		
				1860	18700	21.10	22	0-2		
			50	1880	18900	21.39	22	0-2		
				1900	19100	21.34	22	0-2		
				1860	18700	21.21	22	0-2		
		100)RB	1880	18900	21.36	22	0-2		
				1900	19100	21.42	22	0-2		

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	FDD Band 2 (Full Power)											
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)				
				1857.5	18675	23.69	24	0				
			0	1880	18900	23.19	24	0				
				1902.5	19125	23.52	24	0				
				1857.5	18675	23.20	24	0				
		1 RB	36	1880	18900	23.34	24	0				
				1902.5	19125	23.42	24	0				
				1857.5	18675	23.23	24	0				
			74	1880	18900	23.50	24	0				
				1902.5	19125	23.58	24	0				
			0	1857.5	18675	22.27	23	0-1				
	QPSK	QPSK 36 RB		1880	18900	22.28	23	0-1				
				1902.5	19125	22.51	23	0-1				
				1857.5	18675	22.16	23	0-1				
			18	1880	18900	22.41	23	0-1				
				1902.5	19125	22.42	23	0-1				
				1857.5	18675	22.24	23	0-1				
			37	1880	18900	22.26	23	0-1				
				1902.5	19125	22.50	23	0-1				
				1857.5	18675	22.40	23	0-1				
		75	RB	1880	18900	22.39	23	0-1				
15			1	1902.5	19125	22.50	23	0-1				
			0	1857.5	18675	22.23	23	0-1				
				1880	18900	22.53	23	0-1				
				1902.5	19125	22.13	23	0-1				
		4.00		1857.5	18675	21.88	23	0-1				
		1 RB	36	1880	18900	22.09	23	0-1				
				1902.5	19125	21.93	23	0-1				
			74	1857.5	18675	22.64	23	0-1				
			74	1880	18900	22.27	23	0-1				
				1902.5	19125	22.15	23	0-1				
	16-QAM		0	1857.5	18675	21.25	22	0-2				
	10-QAIVI		U	1880	18900	21.23	22	0-2				
				1902.5	19125	21.38	22	0-2				
		36 RB	18	1857.5 1880	18675 18900	21.01 21.27	22 22	0-2 0-2				
		30 KB	10	1902.5	19125	21.27	22					
				1857.5		21.05	22	0-2 0-2				
			37	1880	18675 18900	21.05	22					
			3,	1902.5	19125	21.33	22	0-2 0-2				
				1857.5	18675	21.32	22	0-2				
		75	RB	1880	18900	21.23	22	0-2				
		/3		1902.5	19125	21.23	22	0-2				
					1902.0	19120	41.04	44	U-Z			

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	FDD Band 2 (Full Power)											
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)				
				1855	18650	23.34	24	0				
			0	1880	18900	23.15	24	0				
				1905	19150	23.35	24	0				
				1855	18650	23.06	24	0				
		1 RB	25	1880	18900	23.04	24	0				
	0.004			1905	19150	23.42	24	0				
				1855	18650	23.31	24	0				
			49	1880	18900	23.43	24	0				
				1905	19150	23.61	24	0				
				1855	18650	22.53	23	0-1				
	QPSK	QPSK 25 RB	0	1880	18900	22.24	23	0-1				
				1905	19150	22.41	23	0-1				
				1855	18650	22.30	23	0-1				
			12	1880	18900	22.41	23	0-1				
				1905	19150	22.46	23	0-1				
				1855	18650	22.17	23	0-1				
			25	1880	18900	22.55	23	0-1				
				1905	19150	22.44	23	0-1				
				1855	18650	22.31	23	0-1				
		50	RB	1880	18900	22.40	23	0-1				
10			1	1905	19150	22.45	23	0-1				
			0	1855	18650	22.74	23	0-1				
				1880	18900	22.48	23	0-1				
				1905	19150	22.29	23	0-1				
		4 DD	25	1855	18650	22.22	23	0-1				
		1 RB	25	1880	18900	22.45	23	0-1				
				1905	19150	22.53	23	0-1				
			40	1855	18650	22.05	23	0-1				
			49	1880	18900	22.24	23 23	0-1				
				1905 1855	19150	22.39 21.45		0-1				
	16-QAM		0	1880	18650 18900	21.45	22 22	0-2 0-2				
	10-QAIVI		J	1905	19150	21.20	22	0-2				
				1855	18650	21.33	22	0-2				
		25 RB	12	1880	18900	21.23	22	0-2				
		20110	'-	1905	19150	21.25	22	0-2				
				1855	18650	21.33	22	0-2				
			25	1880	18900	21.11	22	0-2				
				1905	19150	21.44	22	0-2				
				1855	18650	21.44	22	0-2				
	50R	50	RB	1880	18900	21.29	22	0-2				
		-	1905	19150	21.42	22	0-2					
	l .			1000	10100	£1,7£		U Z				

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FDD Band 2 (Full Power)											
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)			
				1852.5	18625	23.47	24	0			
			0	1880	18900	23.25	24	0			
				1907.5	19175	23.49	24	0			
				1852.5	18625	23.34	24	0			
		1 RB	12	1880	18900	23.06	24	0			
				1907.5	19175	23.37	24	0			
				1852.5	18625	23.06	24	0			
			24	1880	18900	23.38	24	0			
				1907.5	19175	23.50	24	0			
		QPSK		1852.5	18625	22.50	23	0-1			
	QPSK		0	1880	18900	22.23	23	0-1			
				1907.5	19175	22.51	23	0-1			
				1852.5	18625	22.38	23	0-1			
		12 RB	6	1880	18900	22.26	23	0-1			
				1907.5	19175	22.57	23	0-1			
				1852.5	18625	22.39	23	0-1			
			13	1880	18900	22.26	23	0-1			
				1907.5	19175	22.43	23	0-1			
				1852.5	18625	22.47	23	0-1			
		25	RB	1880	18900	22.19	23	0-1			
5				1907.5	19175	22.51	23	0-1			
Ü			0	1852.5	18625	22.45	23	0-1			
				1880	18900	22.54	23	0-1			
				1907.5	19175	22.42	23	0-1			
				1852.5	18625	22.57	23	0-1			
		1 RB	12	1880	18900	22.03	23	0-1			
				1907.5	19175	22.29	23	0-1			
				1852.5	18625	22.03	23	0-1			
			24	1880	18900	22.53	23	0-1			
				1907.5	19175	22.21	23	0-1			
				1852.5	18625	21.42	22	0-2			
	16-QAM		0	1880	18900	21.19	22	0-2			
				1907.5	19175	21.44	22	0-2			
				1852.5	18625	21.44	22	0-2			
		12 RB	6	1880	18900	21.26	22	0-2			
				1907.5	19175	21.41	22	0-2			
				1852.5	18625	21.37	22	0-2			
			13	1880	18900	21.39	22	0-2			
				1907.5	19175	21.35	22	0-2			
	25			1852.5	18625	21.45	22	0-2			
		RB	1880	18900	21.24	22	0-2				
		ZORB	1907.5	19175	21.46	22	0-2				

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FDD Band 2 (Full Power)											
Target											
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)			
				1851.5	18615	23.43	24	0			
			0	1880	18900	23.40	24	0			
				1908.5	19185	23.43	24	0			
				1851.5	18615	23.46	24	0			
		1 RB	7	1880	18900	23.22	24	0			
				1908.5	19185	23.45	24	0			
				1851.5	18615	23.52	24	0			
			14	1880	18900	23.30	24	0			
				1908.5	19185	23.37	24	0			
				1851.5	18615	22.46	23	0-1			
	QPSK		0	1880	18900	22.26	23	0-1			
		8 RB		1908.5	19185	22.48	23	0-1			
				1851.5	18615	22.42	23	0-1			
			4	1880	18900	22.28	23	0-1			
				1908.5	19185	22.46	23	0-1			
				1851.5	18615	22.50	23	0-1			
			7	1880	18900	22.33	23	0-1			
				1908.5	19185	22.43	23	0-1			
				1851.5	18615	22.47	23	0-1			
		15RB		1880	18900	22.35	23	0-1			
3			T	1908.5	19185	22.52	23	0-1			
			0	1851.5	18615	22.43	23	0-1			
				1880	18900	21.94	23	0-1			
				1908.5	19185	22.08	23	0-1			
		4 DD	_	1851.5	18615	22.07	23	0-1			
		1 RB	7	1880	18900	22.31	23	0-1			
				1908.5	19185	22.53	23	0-1			
			14	1851.5	18615	22.29	23	0-1			
			14	1880	18900	22.44	23	0-1			
				1908.5	19185	22.17 21.49	23 22	0-1 0-2			
	16-QAM		0	1851.5	18615		22				
	10-QAIVI		U	1880	18900	21.13		0-2			
				1908.5	19185	21.45	22 22	0-2			
		8 RB	4	1851.5 1880	18615 18900	21.40 21.26	22	0-2 0-2			
		ט אט	"	1908.5	19185	21.20	22	0-2			
				1851.5	18615	21.32	22	0-2			
			7	1880	18900	21.35	22				
			'	1908.5	19185	21.24	22	0-2 0-2			
				1851.5	18615	21.59	22	0-2			
		15	RB	1880	18900	21.32	22	0-2			
	15R	ייי	1908.5	19185	21.25	22	0-2				
				1300.3	19100	21.35	22	U-Z			

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FDD Band 2 (Full Power)										
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)		
				1850.7	18607	23.34	24	0		
			0	1880	18900	23.26	24	0		
				1909.3	19193	23.43	24	0		
				1850.7	18607	23.53	24	0		
		1 RB	2	1880	18900	23.28	24	0		
				1909.3	19193	23.46	24	0		
				1850.7	18607	23.44	24	0		
			5	1880	18900	23.29	24	0		
				1909.3	19193	23.47	24	0		
				1850.7	18607	23.59	24	0		
	QPSK	QPSK 3 RB	0	1880	18900	23.27	24	0		
				1909.3	19193	23.44	24	0		
			_	1850.7	18607	23.58	24	0		
			2	1880	18900	23.32	24	0		
				1909.3	19193	23.46	24	0		
				1850.7	18607	23.56	24	0		
			3	1880	18900	23.62	24	0		
				1909.3	19193	23.50	24	0		
				1850.7	18607	22.51	23	0-1		
		6	RB	1880	18900	22.38	23	0-1		
1.4				1909.3	19193	22.55	23	0-1		
			0	1850.7	18607	22.45	23	0-1		
				1880	18900	22.56	23	0-1		
				1909.3	19193	22.63	23	0-1		
				1850.7	18607	22.58	23	0-1		
		1 RB	2	1880	18900	22.07	23	0-1		
				1909.3	19193	22.31	23	0-1		
				1850.7	18607	22.18	23	0-1		
			5	1880	18900	22.33	23	0-1		
				1909.3	19193	22.43	23	0-1		
	40.0			1850.7	18607	22.51	23	0-1		
	16-QAM		0	1880	18900	22.29	23	0-1		
				1909.3	19193	22.60	23	0-1		
		0.55		1850.7	18607	22.27	23	0-1		
		3 RB	2	1880	18900	22.30	23	0-1		
				1909.3	19193	22.61	23	0-1		
				1850.7	18607	22.39	23	0-1		
			3	1880	18900	22.24	23	0-1		
				1909.3	19193	22.50	23	0-1		
		-	D D	1850.7	18607	21.37	22	0-2		
l		6H	RB	1880	18900	21.23	22	0-2		
				1909.3	19193	21.37	22	0-2		

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Power (dBm) Tolerance G(Bm) Tolerance G(Bm)		FDD Band 2 (Reduced Power)										
PART 1880	BW(Mhz)	Modulation	RB Size	RB Offset		Channel		Power + Max. Tolerance	MPR Allowed per 3GPP(dB)			
1 RB					1860	18700	18.43	18.5	0			
1 RB 50				0	1880	18900	18.49	18.5	0			
1 RB 50					1900	19100	18.45	18.5	0			
PSK 1900					1860	18700	18.39	18.5	0			
QPSK QPSK QPSK 0 1880 18900 18.42 18.5 0 1860 18700 18.33 18.5 0 1860 18700 18.33 18.5 0 1860 18700 18.34 18.5 0-1 1900 19100 18.43 18.5 0-1 1900 19100 18.42 18.5 0-1 1900 19100 18.42 18.5 0-1 1860 18700 18.15 18.5 0-1 1900 19100 18.40 18.5 0-1 1900 19100 18.40 18.5 0-1 1900 19100 18.40 18.5 0-1 1860 18700 18.20 18.5 0-1 1860 18700 18.27 18.5 0-1 1860 18700 18.27 18.5 0-1 1860 18700 18.37 18.5 0-1 1900 19100 18.40 18.5 0-1 1900 19100 18.40 18.5 0-1 1860 18700 18.27 18.5 0-1 1900 19100 18.40 18.5 0-1 1860 18700 18.27 18.5 0-1 1900 19100 18.41 18.5 0-1 1900 19100 18.40 18.5 0-1 1900 19100 18.40 18.5 0-1 1860 18700 18.39 18.5 0-1 1860 18700 18.39 18.5 0-1 1900 19100 18.11 18.5 0-1 1900 19100 18.11 18.5 0-1 1900 19100 18.11 18.5 0-1 1900 19100 18.11 18.5 0-1 1900 19100 18.11 18.5 0-1 1860 18700 18.39 18.5 0-1 1860 18700 18.39 18.5 0-1 1900 19100 18.11 18.5 0-1 1860 18700 18.39 18.5 0-1 1860 18700 18.39 18.5 0-1 1860 18700 18.39 18.5 0-1 1860 18700 18.39 18.5 0-1 1860 18700 18.39 18.5 0-1 1860 18700 18.39 18.5 0-1 1860 18700 18.39 18.5 0-1 1860 18700 18.30 18.50 0-1 1860 18700 18.31 18.5 0-2 1860 18700 18.33 18.5 0-2 1860 18700 18.34 18.5 0-2 1860 18700 18.14 18.5 0-2 1860 18700 18.14 18.5 0-2			1 RB	50	1880	18900	18.35	18.5	0			
QPSK QPSK QPSK 0					1900	19100	18.40	18.5	0			
QPSK QPSK 0 1860 18700 18.33 18.5 0-1 1860 18700 18.34 18.5 0-1 1890 19100 18.43 18.5 0-1 1900 19100 18.42 18.5 0-1 1860 18700 18.15 18.5 0-1 1860 18700 18.16 18.5 0-1 1860 18700 18.16 18.5 0-1 1900 19100 18.40 18.5 0-1 1900 19100 18.40 18.5 0-1 1900 19100 18.41 18.5 0-1 1900 19100 18.41 18.5 0-1 1900 19100 18.41 18.5 0-1 1900 19100 18.37 18.5 0-1 1900 19100 18.37 18.5 0-1 1900 19100 18.37 18.5 0-1 1900 19100 18.39 18.5 0-1 1860 18700 18.27 18.5 0-1 1900 19100 18.11 18.5 0-1 1860 18700 18.29 18.5 0-1 1860 18700 18.29 18.5 0-1 1860 18700 18.29 18.5 0-1 1860 18700 18.29 18.5 0-1 1860 18700 18.33 18.5 0-1 1860 18700 18.39 18.5 0-1 1860 18700 18.31 18.5 0-1 1860 18700 18.31 18.5 0-1 1860 18700 18.33 18.5 0-1 1860 18700 18.39 18.5 0-1 1900 19100 18.11 18.5 0-1 1860 18700 18.39 18.5 0-1 1900 19100 18.33 18.5 0-2 1860 18700 18.39 18.5 0-1 1900 19100 18.41 18.5 0-2 1860 18700 18.33 18.5 0-2 1860 18700 18.33 18.5 0-2 1860 18700 18.44 18.5 0-2 1860 18700 18.44 18.5 0-2 1860 18700 18.44 18.5 0-2					1860	18700	18.38	18.5	0			
QPSK QPSK 0				99		18900	18.42		0			
QPSK O 1880 18900 18.43 18.5 0-1					1900	19100	18.33	18.5	0			
1900 19100 18.42 18.5 0-1 1860 18700 18.15 18.5 0-1 1900 19100 18.40 18.5 0-1 1900 19100 18.40 18.5 0-1 1900 19100 18.40 18.5 0-1 1860 18700 18.20 18.5 0-1 1900 19100 18.41 18.5 0-1 1900 19100 18.41 18.5 0-1 1880 18900 18.41 18.5 0-1 1900 19100 18.41 18.5 0-1 1880 18900 18.40 18.5 0-1 1900 19100 18.37 18.5 0-1 1900 19100 18.37 18.5 0-1 1880 18800 18.39 18.5 0-1 1900 19100 18.18 18.5 0-1 1880 18900 18.10 18.5 0-1 1900 19100 18.18 18.5 0-1 1880 18900 18.10 18.5 0-1 1900 19100 18.11 18.5 0-1 1900 19100 18.11 18.5 0-1 1900 19100 18.11 18.5 0-1 1900 19100 18.11 18.5 0-1 1900 19100 18.11 18.5 0-1 1860 18700 18.29 18.5 0-1 1900 19100 18.07 18.5 0-1 1900 19100 18.07 18.5 0-1 1860 18700 18.33 18.5 0-2 1860 18700 18.20 18.5 0-2 1900 19100 18.40 18.5 0-2 1900 19100 18.40 18.5 0-2 1860 18700 18.14 18.5 0-2 1860 18700 18.14 18.5 0-2				0	1860	18700	18.34	18.5	0-1			
20 1860		QPSK			1880	18900	18.43	18.5	0-1			
20 1880 18900 18.40 18.5 0-1 1900 19100 18.40 18.5 0-1 1860 18700 18.20 18.5 0-1 1900 19100 18.41 18.5 0-1 1900 19100 18.41 18.5 0-1 1900 19100 18.41 18.5 0-1 1860 18700 18.27 18.5 0-1 1880 18900 18.40 18.5 0-1 1900 19100 18.37 18.5 0-1 1900 19100 18.37 18.5 0-1 1900 19100 18.37 18.5 0-1 1900 19100 18.18 18.5 0-1 1900 19100 18.18 18.5 0-1 1900 19100 18.18 18.5 0-1 1900 19100 18.11 18.5 0-1 1900 19100 18.11 18.5 0-1 1900 19100 18.11 18.5 0-1 1900 19100 18.11 18.5 0-1 1900 19100 18.07 18.5 0-1 1900 19100 18.07 18.5 0-1 1900 19100 18.07 18.5 0-2 1800 18900 18.20 18.5 0-2 1900 19100 18.40 18.5 0-2 1900 19100 18.40 18.5 0-2 1900 19100 18.40 18.5 0-2 1900 19100 18.40 18.5 0-2 1860 18700 18.14 18.5 0-2 1860 18700 18.41 18.5 0-2 1860 18700 18.40 18.5 0-2 1860 18700 18.41 18.5 0-2 1860 18700 18.44 18					1900	19100	18.42	18.5	0-1			
1900 19100 18.40 18.5 0-1 1860 18700 18.20 18.5 0-1 1880 18900 18.31 18.5 0-1 1900 19100 18.41 18.5 0-1 1860 18700 18.27 18.5 0-1 1860 18700 18.27 18.5 0-1 1860 18700 18.37 18.5 0-1 1900 19100 18.37 18.5 0-1 1900 19100 18.37 18.5 0-1 1900 19100 18.39 18.5 0-1 1880 18900 18.10 18.5 0-1 1900 19100 18.18 18.5 0-1 1900 19100 18.18 18.5 0-1 1860 18700 17.77 18.5 0-1 1860 18700 18.39 18.5 0-1 1860 18700 18.39 18.5 0-1 1860 18700 18.11 18.5 0-1 1860 18700 18.39 18.5 0-1 1860 18700 18.39 18.5 0-1 1860 18700 18.39 18.5 0-1 1860 18700 18.39 18.5 0-1 1860 18700 18.39 18.5 0-1 1900 19100 18.17 18.5 0-1 1900 19100 18.07 18.5 0-1 1900 19100 18.07 18.5 0-1 1860 18700 18.33 18.5 0-2 1860 18700 18.33 18.5 0-2 1860 18700 18.34 18.5 0-2 50 RB 25 1880 18900 18.40 18.5 0-2					1860	18700		18.5	0-1			
1860 18700 18.20 18.5 0-1 1880 18900 18.31 18.5 0-1 1900 19100 18.41 18.5 0-1 1860 18700 18.27 18.5 0-1 1860 18700 18.27 18.5 0-1 1880 18900 18.40 18.5 0-1 1900 19100 18.37 18.5 0-1 1900 19100 18.37 18.5 0-1 1860 18700 18.39 18.5 0-1 1880 18900 18.10 18.5 0-1 1900 19100 18.18 18.5 0-1 1900 19100 18.18 18.5 0-1 1900 19100 18.11 18.5 0-1 1860 18700 17.77 18.5 0-1 1900 19100 18.11 18.5 0-1 1860 18700 18.39 18.5 0-1 1900 19100 18.11 18.5 0-1 1860 18700 18.39 18.5 0-1 1860 18700 18.39 18.5 0-1 1860 18700 18.39 18.5 0-1 1860 18700 18.39 18.5 0-1 1860 18700 18.39 18.5 0-1 1900 19100 18.11 18.5 0-1 1900 19100 18.07 18.5 0-1 1900 19100 18.07 18.5 0-1 1860 18700 18.33 18.5 0-2 1860 18700 18.33 18.5 0-2 1860 18700 18.40 18.5 0-2 1860 18700 18.40 18.5 0-2 1860 18700 18.14 18.5 0-2				25					0-1			
20 100RB 1880 18900 18.31 18.5 0-1 100RB 1860 18700 18.27 18.5 0-1 1880 18900 18.40 18.5 0-1 1900 19100 18.37 18.5 0-1 1900 19100 18.37 18.5 0-1 1900 19100 18.37 18.5 0-1 1880 18900 18.10 18.5 0-1 1900 19100 18.18 18.5 0-1 1900 19100 18.18 18.5 0-1 1860 18700 17.77 18.5 0-1 1860 18700 18.23 18.5 0-1 1900 19100 18.11 18.5 0-1 1900 19100 18.11 18.5 0-1 1860 18700 18.39 18.5 0-1 1900 19100 18.07 18.5 0-1 1900 19100 18.07 18.5 0-1 1900 19100 18.33 18.5 0-2 1860 18700 18.33 18.5 0-2 1860 18700 18.40 18.5 0-2 1860 18700 18.14 18.5 0-2 1860 18700 18.14 18.5 0-2 1860 18700 18.14 18.5 0-2 1860 18700 18.14 18.5 0-2 1860 18700 18.14 18.5 0-2												
1900 19100 18.41 18.5 0-1 100RB 1860 18700 18.27 18.5 0-1 1880 18900 18.40 18.5 0-1 1900 19100 18.37 18.5 0-1 1900 19100 18.37 18.5 0-1 1860 18700 18.39 18.5 0-1 1880 18900 18.10 18.5 0-1 1900 19100 18.18 18.5 0-1 1900 19100 18.18 18.5 0-1 1860 18700 17.77 18.5 0-1 1860 18700 18.23 18.5 0-1 1900 19100 18.11 18.5 0-1 1860 18700 18.39 18.5 0-1 1860 18700 18.39 18.5 0-1 1860 18700 18.39 18.5 0-1 1860 18700 18.39 18.5 0-1 1860 18700 18.39 18.5 0-1 1860 18700 18.39 18.5 0-1 1860 18700 18.33 18.5 0-2 1860 18700 18.33 18.5 0-2 1860 18700 18.33 18.5 0-2 1860 18700 18.34 18.5 0-2 1860 18700 18.44 18.5 0-2 1860 18700 18.44 18.5 0-2									0-1			
100RB				50		18900	18.31	18.5				
100RB												
1 RB												
1 RB			100)RB								
1 RB	20			<u> </u>								
1 RB				0								
1 RB 50 1860 18700 17.77 18.5 0-1 1880 18900 18.23 18.5 0-1 1900 19100 18.11 18.5 0-1 1860 18700 18.39 18.5 0-1 1860 18700 18.39 18.5 0-1 1900 19100 18.07 18.5 0-1 1900 19100 18.07 18.5 0-1 1900 19100 18.33 18.5 0-2 1860 18700 18.30 18.5 0-2 1860 18700 18.40 18.5 0-2 1860 18700 18.40 18.5 0-2 1860 18700 18.14 18.5 0-2 1860 18700 18.14 18.5 0-2 1860 18700 18.14 18.5 0-2												
1 RB 50 1880 18900 18.23 18.5 0-1 1900 19100 18.11 18.5 0-1 1860 18700 18.39 18.5 0-1 1880 18900 18.29 18.5 0-1 1900 19100 18.07 18.5 0-1 1900 19100 18.07 18.5 0-1 1860 18700 18.33 18.5 0-2 1860 18700 18.20 18.5 0-2 1900 19100 18.40 18.5 0-2 1860 18700 18.14 18.5 0-2 1860 18700 18.14 18.5 0-2 1860 18700 18.14 18.5 0-2 1860 18700 18.48 18.5 0-2												
1900 19100 18.11 18.5 0-1 1860 18700 18.39 18.5 0-1 1880 18900 18.29 18.5 0-1 1900 19100 18.07 18.5 0-1 1860 18700 18.33 18.5 0-2 1860 18700 18.20 18.5 0-2 1900 19100 18.40 18.5 0-2 1860 18700 18.14 18.5 0-2 50 RB 25 1880 18900 18.48 18.5 0-2			4 DD	50					•			
1860 18700 18.39 18.5 0-1 99 1880 18900 18.29 18.5 0-1 1900 19100 18.07 18.5 0-1 1860 18700 18.33 18.5 0-2 1860 18700 18.33 18.5 0-2 1900 19100 18.40 18.5 0-2 1860 18700 18.14 18.5 0-2 50 RB 25 1880 18900 18.48 18.5 0-2			TRB	50								
99 1880 18900 18.29 18.5 0-1 1900 19100 18.07 18.5 0-1 1860 18700 18.33 18.5 0-2 1880 18900 18.20 18.5 0-2 1900 19100 18.40 18.5 0-2 1860 18700 18.14 18.5 0-2 50 RB 25 1880 18900 18.48 18.5 0-2												
16-QAM 0 19100 18.07 18.5 0-1 1860 18700 18.33 18.5 0-2 1880 18900 18.20 18.5 0-2 1900 19100 18.40 18.5 0-2 1860 18700 18.14 18.5 0-2 1860 18700 18.14 18.5 0-2 1860 18900 18.48 18.5 0-2				00								
16-QAM 0 1860 18700 18.33 18.5 0-2 1880 18900 18.20 18.5 0-2 1900 19100 18.40 18.5 0-2 1860 18700 18.14 18.5 0-2 1860 18700 18.14 18.5 0-2 1880 18900 18.48 18.5 0-2				33					•			
16-QAM 0 1880 18900 18.20 18.5 0-2 1900 19100 18.40 18.5 0-2 1860 18700 18.14 18.5 0-2 1860 18900 18.48 18.5 0-2									•			
1900 19100 18.40 18.5 0-2 1860 18700 18.14 18.5 0-2 50 RB 25 1880 18900 18.48 18.5 0-2		16-OAM		0								
50 RB 25 1860 18700 18.14 18.5 0-2 1880 18900 18.48 18.5 0-2		10 QAIVI										
50 RB 25 1880 18900 18.48 18.5 0-2												
			50 RB	25								
- 1900 1 1900 1 10Δ3 1 10Δ 1 11-7			OUND		1900	19100	18.43	18.5	0-2			
1860 18700 18.15 18.5 0-2												
50 1880 18900 18.46 18.5 0-2				50								
1900 19100 18.35 18.5 0-2												
1860 18700 18.31 18.5 0-2												
100RB 1880 18900 18.38 18.5 0-2			100)RB								
1900 19100 18.34 18.5 0-2		100										

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	FDD Band 2 (Reduced Power)											
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)				
				1857.5	18675	18.20	18.5	0				
			0	1880	18900	18.14	18.5	0				
				1902.5	19125	18.45	18.5	0				
				1857.5	18675	18.09	18.5	0				
		1 RB	36	1880	18900	18.19	18.5	0				
				1902.5	19125	18.36	18.5	0				
				1857.5	18675	18.15	18.5	0				
			74	1880	18900	18.45	18.5	0				
				1902.5	19125	18.37	18.5	0				
				1857.5	18675	18.17	18.5	0-1				
	QPSK		0	1880	18900	18.15	18.5	0-1				
				1902.5	19125	18.47	18.5	0-1				
				1857.5	18675	18.07	18.5	0-1				
		36 RB	18	1880	18900	18.22	18.5	0-1				
				1902.5	19125	18.43	18.5	0-1				
				1857.5	18675	18.12	18.5	0-1				
			37	1880	18900	18.40	18.5	0-1				
				1902.5	19125	18.38	18.5	0-1				
				1857.5	18675	18.26	18.5	0-1				
		/5	RB	1880	18900	18.28	18.5	0-1				
15			1	1902.5	19125	18.44	18.5	0-1				
			0	1857.5	18675	18.18	18.5	0-1				
				1880	18900	18.10	18.5	0-1				
				1902.5	19125	18.43	18.5	0-1				
		4 DD	20	1857.5	18675	17.94	18.5	0-1				
		1 RB	36	1880	18900	18.23	18.5	0-1				
				1902.5	19125	18.34	18.5	0-1				
			74	1857.5	18675	17.97	18.5	0-1				
			74	1880 1902.5	18900	18.23	18.5	0-1				
				1857.5	19125 18675	18.46 18.17	18.5 18.5	0-1 0-2				
	16-QAM		0	1880	18900	18.23	18.5	0-2				
	10-QAIVI					•						
				1902.5 1857.5	19125 18675	18.47	18.5	0-2 0-2				
		36 RB	18	1880	18675 18900	18.06 18.29	18.5 18.5	0-2				
		0010	,,,	1902.5	19125	18.43	18.5	0-2				
				1857.5	18675	18.15	18.5	0-2				
			37	1880	18900	18.44	18.5	0-2				
			J.	1902.5	19125	18.40	18.5	0-2				
				1857.5	18675	18.28	18.5	0-2				
	75R	75	RB	1880	18900	18.25	18.5	0-2				
		=	1902.5	19125	18.44	18.5	0-2					
				1002.0	10120	10.77	10.0	U Z				

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FDD Band 2 (Reduced Power)											
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)			
				1855	18650	18.33	18.5	0			
			0	1880	18900	18.22	18.5	0			
				1905	19150	18.43	18.5	0			
				1855	18650	18.05	18.5	0			
		1 RB	25	1880	18900	18.14	18.5	0			
				1905	19150	18.38	18.5	0			
				1855	18650	18.08	18.5	0			
			49	1880	18900	18.49	18.5	0			
				1905	19150	18.34	18.5	0			
				1855	18650	18.42	18.5	0-1			
QP	QPSK		0	1880	18900	18.20	18.5	0-1			
		25 RB		1905	19150	18.47	18.5	0-1			
				1855	18650	18.25	18.5	0-1			
			12	1880	18900	18.17	18.5	0-1			
				1905	19150	18.39	18.5	0-1			
				1855	18650	18.10	18.5	0-1			
			25	1880	18900	18.48	18.5	0-1			
				1905	19150	18.34	18.5	0-1			
				1855	18650	18.23	18.5	0-1			
		50	RB	1880	18900	18.37	18.5	0-1			
10				1905	19150	18.39	18.5	0-1			
			0	1855	18650	18.23	18.5	0-1			
				1880	18900	17.81	18.5	0-1			
				1905	19150	18.49	18.5	0-1			
				1855	18650	18.26	18.5	0-1			
		1 RB	25	1880	18900	18.27	18.5	0-1			
				1905	19150	18.41	18.5	0-1			
				1855	18650	17.95	18.5	0-1			
			49	1880	18900	18.43	18.5	0-1			
				1905	19150	18.13	18.5	0-1			
			_	1855	18650	18.46	18.5	0-2			
	16-QAM		0	1880	18900	18.26	18.5	0-2			
				1905	19150	18.44	18.5	0-2			
				1855	18650	18.25	18.5	0-2			
		25 RB	12	1880	18900	18.34	18.5	0-2			
				1905	19150	18.43	18.5	0-2			
			0.5	1855	18650	18.06	18.5	0-2			
			25	1880	18900	18.46	18.5	0-2			
				1905	19150	18.50	18.5	0-2			
				1855	18650	18.16	18.5	0-2			
		50	RB	1880	18900	18.31	18.5	0-2			
				1905	19150	18.48	18.5	0-2			

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	FDD Band 2 (Reduced Power)											
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)				
				1852.5	18625	18.30	18.5	0				
			0	1880	18900	18.19	18.5	0				
				1907.5	19175	18.41	18.5	0				
				1852.5	18625	18.34	18.5	0				
		1 RB	12	1880	18900	18.25	18.5	0				
				1907.5	19175	18.42	18.5	0				
				1852.5	18625	18.18	18.5	0				
			24	1880	18900	18.47	18.5	0				
				1907.5	19175	18.39	18.5	0				
		QPSK 12 RB	0	1852.5	18625	18.43	18.5	0-1				
	QPSK			1880	18900	18.19	18.5	0-1				
				1907.5	19175	18.40	18.5	0-1				
				1852.5	18625	18.40	18.5	0-1				
			6	1880	18900	18.18	18.5	0-1				
				1907.5	19175	18.33	18.5	0-1				
				1852.5	18625	18.29	18.5	0-1				
			13	1880	18900	18.40	18.5	0-1				
				1907.5	19175	18.32	18.5	0-1				
				1852.5	18625	18.43	18.5	0-1				
		25	RB	1880	18900	18.17	18.5	0-1				
5			_	1907.5	19175	18.40	18.5	0-1				
Ŭ			0	1852.5	18625	18.47	18.5	0-1				
				1880	18900	18.02	18.5	0-1				
				1907.5	19175	18.33	18.5	0-1				
				1852.5	18625	18.23	18.5	0-1				
		1 RB	12	1880	18900	17.85	18.5	0-1				
				1907.5	19175	18.25	18.5	0-1				
				1852.5	18625	18.47	18.5	0-1				
			24	1880	18900	18.42	18.5	0-1				
				1907.5	19175	18.28	18.5	0-1				
			_	1852.5	18625	18.37	18.5	0-2				
	16-QAM		0	1880	18900	18.21	18.5	0-2				
				1907.5	19175	18.43	18.5	0-2				
		40 ==	_	1852.5	18625	18.39	18.5	0-2				
		12 RB	6	1880	18900	18.21	18.5	0-2				
				1907.5	19175	18.41	18.5	0-2				
			40	1852.5	18625	18.40	18.5	0-2				
			13	1880	18900	18.42	18.5	0-2				
				1907.5	19175	18.34	18.5	0-2				
			D D	1852.5	18625	18.49	18.5	0-2				
		25R	KR	1880	18900	18.22	18.5	0-2				
				1907.5	19175	18.31	18.5	0-2				

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	FDD Band 2 (Reduced Power)											
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)				
				1851.5	18615	18.39	18.5	0				
			0	1880	18900	18.25	18.5	0				
				1908.5	19185	18.37	18.5	0				
				1851.5	18615	18.36	18.5	0				
		1 RB	7	1880	18900	18.20	18.5	0				
				1908.5	19185	18.26	18.5	0				
				1851.5	18615	18.30	18.5	0				
			14	1880	18900	18.40	18.5	0				
				1908.5	19185	18.31	18.5	0				
		QPSK 8 RB	0	1851.5	18615	18.37	18.5	0-1				
	QPSK			1880	18900	18.24	18.5	0-1				
				1908.5	19185	18.39	18.5	0-1				
				1851.5	18615	18.38	18.5	0-1				
			4	1880	18900	18.25	18.5	0-1				
				1908.5	19185	18.30	18.5	0-1				
				1851.5	18615	18.36	18.5	0-1				
			7	1880	18900	18.24	18.5	0-1				
				1908.5	19185	18.37	18.5	0-1				
				1851.5	18615	18.43	18.5	0-1				
		15	RB	1880	18900	18.20	18.5	0-1				
3			•	1908.5	19185	18.32	18.5	0-1				
			0	1851.5	18615	18.28	18.5	0-1				
				1880	18900	18.02	18.5	0-1				
				1908.5	19185	18.26	18.5	0-1				
		4.00	_	1851.5	18615	18.18	18.5	0-1				
		1 RB	7	1880	18900	18.11	18.5	0-1				
				1908.5	19185	18.29	18.5	0-1				
			4.4	1851.5	18615	18.20	18.5	0-1				
			14	1880	18900	18.31	18.5	0-1				
				1908.5	19185	18.27	18.5	0-1				
	16-QAM		0	1851.5	18615	18.45	18.5	0-2 0-2				
	10-QAIVI		U	1880	18900 19185	18.18	18.5					
				1908.5		18.37	18.5	0-2 0-2				
		8 RB	4	1851.5 1880	18615 18900	18.46 18.25	18.5 18.5	0-2 0-2				
		ט אט		1908.5	19185	18.36	18.5	0-2				
				1851.5	18615	18.50	18.5	0-2				
			7	1880	18900	18.26	18.5	0-2				
			'	1908.5	19185	18.36	18.5	0-2				
				1851.5	18615	18.39	18.5	0-2				
		15	RB	1880	18900	18.26	18.5	0-2				
		13		1908.5	19185	18.37	18.5	0-2				
	l			1900.5	19100	10.01	10.0	U-Z				

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FDD Band 2 (Reduced Power)											
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)			
				1850.7	18607	18.34	18.5	0			
			0	1880	18900	18.24	18.5	0			
				1909.3	19193	18.38	18.5	0			
				1850.7	18607	18.41	18.5	0			
		1 RB	2	1880	18900	18.22	18.5	0			
				1909.3	19193	18.32	18.5	0			
				1850.7	18607	18.46	18.5	0			
			5	1880	18900	18.30	18.5	0			
				1909.3	19193	18.35	18.5	0			
		QPSK 3 RB		1850.7	18607	18.42	18.5	0			
	QPSK		0	1880	18900	18.27	18.5	0			
				1909.3	19193	18.36	18.5	0			
				1850.7	18607	18.41	18.5	0			
			2	1880	18900	18.19	18.5	0			
				1909.3	19193	18.32	18.5	0			
				1850.7	18607	18.46	18.5	0			
			3	1880	18900	18.25	18.5	0			
				1909.3	19193	18.38	18.5	0			
				1850.7	18607	18.41	18.5	0-1			
		6F	RB	1880	18900	18.26	18.5	0-1			
1.4				1909.3	19193	18.34	18.5	0-1			
			0	1850.7	18607	18.34	18.5	0-1			
				1880	18900	18.14	18.5	0-1			
				1909.3	19193	18.38	18.5	0-1			
				1850.7	18607	18.46	18.5	0-1			
		1 RB	2	1880	18900	18.18	18.5	0-1			
				1909.3	19193	18.30	18.5	0-1			
			_	1850.7	18607	18.28	18.5	0-1			
			5	1880	18900	18.38	18.5	0-1			
				1909.3	19193	18.41	18.5	0-1			
	16 0 4 14		_	1850.7	18607	18.29	18.5	0-1			
	16-QAM		0	1880	18900	18.25	18.5	0-1			
				1909.3	19193	18.31	18.5	0-1			
		3 RB	2	1850.7	18607	18.39	18.5	0-1			
		SKD		1880 1909.3	18900 19193	18.22 18.27	18.5 18.5	0-1 0-1			
				1850.7		18.34	18.5	0-1			
			3	1880	18607 18900			0-1			
				1909.3	19193	18.11 18.31	18.5 18.5	0-1			
				1850.7	18607	18.35	18.5	0-1			
		61	RB	1880	18900	18.22	18.5	0-2			
		01		1909.3	19193	18.31	18.5	0-2			
					1303.3	19190	10.51	10.0	U-Z		

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	FDD Band 4 (Full Power)									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)		
				1720	20050	23.50	24	0		
			0	1732.5	20175	23.83	24	0		
				1745	20300	23.63	24	0		
				1720	20050	23.59	24	0		
		1 RB	50	1732.5	20175	23.46	24	0		
				1745	20300	23.65	24	0		
				1720	20050	23.54	24	0		
			99	1732.5	20175	23.69	24	0		
				1745	20300	23.93	24	0		
			0	1720	20050	22.67	23	0-1		
	QPSK			1732.5	20175	22.73	23	0-1		
				1745	20300	22.85	23	0-1		
				1720	20050	22.74	23	0-1		
		50 RB	25	1732.5	20175	22.77	23	0-1		
				1745	20300 22.71 23	0-1				
				1720	20050	22.76	23	0-1		
			50	1732.5	20175	22.76 23 22.66 23 23.00 23 22.89 23	0-1			
				1745	20300	23.00	23	0-1		
				1720	20050	22.89	23	0-1		
		100RB		1732.5	20175	22.75	23	0-1		
20			_	1745	20300	22.79	23	0-1		
		1 RB	0	1720	20050	22.21	23	0-1		
				1732.5	20175	22.94	23	0-1		
				1745	20300	22.86	23	0-1		
				1720	20050	22.33	23	0-1		
			50	1732.5	20175	22.55	23	0-1		
				1745	20300	22.93	23	0-1		
				1720	20050	22.57	23	0-1		
			99	1732.5	20175	22.02	23	0-1		
				1745	20300	22.28	23	0-1		
				1720	20050	21.57	22	0-2		
	16-QAM		0	1732.5	20175	21.61	22	0-2		
				1745	20300	21.71	22	0-2		
				1720	20050	21.70	22	0-2		
		50 RB	25	1732.5	20175	21.79	22	0-2		
				1745	20300	21.62	22	0-2		
				1720	20050	21.68	22	0-2		
			50	1732.5	20175	21.62	22	0-2		
				1745	20300	21.65	22	0-2		
				1720	20050	21.85	22	0-2		
		100	ORB	1732.5	20175	21.68	22	0-2		
			1745	20300	21.73	22	0-2			

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			FDD	Band 4 (Full P	ower)			
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
				1717.5	20025	23.47	24	0
			0	1732.5	20175	23.77	24	0
				1747.5	20325	23.56	24	0
				1717.5	20025	23.62	24	0
		1 RB	36	1732.5	20175	23.58	24	0
				1747.5	20325	23.60	24	0
				1717.5	20025	23.52	24	0
			74	1732.5	20175	23.57	24	0
				1747.5	20325	24.00	24	0
			0	1717.5	20025	22.49	23	0-1
	QPSK			1732.5	20175	22.72	23	0-1
				1747.5	20325	22.68	23	0-1
			18	1717.5	20025	22.66	23	0-1
		36 RB		1732.5	20175	22.65	23	0-1
				1747.5	20325	22.70	23	0-1
				1717.5	20025	22.55	23	0-1
			37	1732.5	20175	22.62	23	0-1
				1747.5	20325	22.56	23 23	0-1
				1717.5	20025	22.68		0-1
		75RB		1732.5	20175	22.69	23	0-1
15				1747.5	20325	22.71	23	0-1
		1 RB		1717.5	20025	22.72	23	0-1
			0	1732.5	20175	22.65	23	0-1
				1747.5	20325	22.98	23	0-1
				1717.5	20025	22.57	23	0-1
			36	1732.5	20175	22.55	23	0-1
				1747.5	20325	22.85	23	0-1
				1717.5	20025	22.64	23	0-1
			74	1732.5	20175	22.58	23	0-1
				1747.5	20325	22.56	23	0-1
				1717.5	20025	21.53	22	0-2
	16-QAM		0	1732.5	20175	21.66	22	0-2
				1747.5	20325	21.59	22	0-2
		00.55	4.5	1717.5	20025	21.52	22	0-2
		36 RB	18	1732.5	20175	21.73	22	0-2
				1747.5	20325	21.52	22	0-2
			0.7	1717.5	20025	21.54	22	0-2
			37	1732.5	20175	21.60	22	0-2
				1747.5	20325	21.59	22	0-2
		7-	DD	1717.5	20025	21.59	22	0-2
		/5	RB	1732.5	20175	21.78	22	0-2
				1747.5	20325	21.72	22	0-2

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			FDD	Band 4 (Full P	ower)			
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
				1715	20000	23.26	24	0
			0	1732.5	20175	23.76	24	0
				1750	20350	23.56	24	0
				1715	20000	23.39	24	0
		1 RB	25	1732.5	20175	23.56	24	0
				1750	20350	23.53	24	0
			49	1715	20000	23.56	24	0
				1732.5	20175	23.62	24	0
				1750	20350	23.37	24	0
			0	1715	20000	22.69	23	0-1
	QPSK			1732.5	20175	22.60	23	0-1
				1750	20350	22.61	23	0-1
				1715	20000	22.47	23	0-1
		25 RB	12	1732.5	20175	22.61	23	0-1
				1750	20350	22.58	23	0-1
				1715	20000	22.52	23	0-1
			25	1732.5	20175	22.63 23 22.43 23	0-1	
				1750	20350		23 23 23 23	0-1
				1715	20000	22.53	23	0-1
		50	RB	1732.5	20175	22.77	23	0-1
10				1750	20350	23.00	23	0-1
			0	1715	20000	22.40	23	0-1
				1732.5	20175	22.91	23	0-1
				1750	20350	22.54	23	0-1
				1715	20000	21.86	23	0-1
		1 RB	25	1732.5	20175	22.78	23	0-1
				1750	20350	21.87	23	0-1
				1715	20000	22.83	23	0-1
			49	1732.5	20175	22.15	23	0-1
				1750	20350	22.49	23	0-1
	40.0444			1715	20000	21.69	22	0-2
	16-QAM		0	1732.5	20175	21.60	22	0-2
				1750	20350	21.72	22	0-2
		05.00	40	1715	20000	21.45	22	0-2
		25 RB	12	1732.5	20175	21.62	22	0-2
				1750	20350	21.60	22	0-2
			25	1715	20000	21.53	22	0-2
			25	1732.5	20175	21.68	22	0-2
				1750	20350	21.59	22	0-2
			DD	1715	20000	21.53	22	0-2
		50	RB	1732.5	20175	21.67	22	0-2
				1750	20350	21.61	22	0-2

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	FDD Band 4 (Full Power)								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
				1712.5	19975	23.62	24	0	
			0	1732.5	20175	23.58	24	0	
				1752.5	20375	23.43	24	0	
				1712.5	19975	23.66	24	0	
		1 RB	12	1732.5	20175	23.71	24	0	
				1752.5	20375	23.47	24	0	
			24	1712.5	19975	23.22	24	0	
				1732.5	20175	23.60	24	0	
				1752.5	20375	23.44	24	0	
			0	1712.5	19975	22.70	23	0-1	
	QPSK			1732.5	20175	22.68	23	0-1	
				1752.5	20375	22.62	23	0-1	
				1712.5	19975	22.37	23	0-1	
		12 RB	6	1732.5	20175	22.62	23	0-1	
				1752.5	20375	22.62	23	0-1	
				1712.5	19975	22.91	23	0-1	
			13	1732.5	20175	22.62	23	0-1	
				1752.5	20375	22.47	23	0-1	
				1712.5	19975	22.30	23	0-1	
		25RB		1732.5	20175	22.62	23	0-1	
5				1752.5	20375	22.58	23	0-1	
			0	1712.5	19975	22.35	23	0-1	
				1732.5	20175	22.72	23	0-1	
				1752.5	20375	22.74	23	0-1	
				1712.5	19975	22.72	23	0-1	
		1 RB	12	1732.5	20175	22.53	23	0-1	
				1752.5	20375	22.23	23	0-1	
				1712.5	19975	22.33	23	0-1	
			24	1732.5	20175	22.54	23	0-1	
				1752.5	20375	23.00	23	0-1	
	16 0 4 4		_	1712.5	19975	21.83	22	0-2	
	16-QAM		0	1732.5	20175	21.68	22	0-2	
				1752.5	20375	21.66	22	0-2	
		10 00	_	1712.5	19975	21.46	22	0-2	
		12 RB	6	1732.5	20175	21.76	22	0-2	
				1752.5	20375	21.44	22	0-2	
			12	1712.5	19975	21.39	22	0-2	
			13	1732.5	20175	21.72	22	0-2	
				1752.5	20375	21.57	22	0-2	
		O.F.	DD	1712.5	19975	21.88	22	0-2	
		25	RB	1732.5	20175	21.58	22	0-2	
			1752.5	20375	21.51	22	0-2		

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	FDD Band 4 (Full Power)									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)		
				1711.5	19965	23.54	24	0		
			0	1732.5	20175	23.63	24	0		
				1753.5	20385	23.44	24	0		
				1711.5	19965	23.64	24	0		
		1 RB	7	1732.5	20175	23.60	24	0		
				1753.5	20385	23.87	24	0		
				1711.5	19965	23.20	24	0		
			14	1732.5	20175	23.67	24	0		
				1753.5	20385	23.53	24	0		
			0	1711.5	19965	22.72	23	0-1		
	QPSK			1732.5	20175	22.69	23	0-1		
				1753.5	20385	22.60	23	0-1		
				1711.5	19965	22.83 23	0-1			
		8 RB	4	1732.5	20175	22.62	23	0-1		
				1753.5	20385	22.53	23	0-1		
				1711.5	19965	22.82	23	0-1		
			7	1732.5	20175	22.63	23	0-1		
				1753.5	20385	22.49	23	0-1		
				1711.5	19965	22.78	23	0-1		
		15RB		1732.5	20175	22.68	23	0-1		
3				1753.5	20385	22.48	23	0-1		
3		1 RB	0	1711.5	19965	22.06	23	0-1		
				1732.5	20175	22.29	23	0-1		
				1753.5	20385	22.32	23	0-1		
				1711.5	19965	22.67	23	0-1		
			7	1732.5	20175	22.80	23	0-1		
				1753.5	20385	22.37	23	0-1		
				1711.5	19965	22.30	23	0-1		
			14	1732.5	20175	22.51	23	0-1		
				1753.5	20385	22.66	23	0-1		
				1711.5	19965	21.83	22	0-2		
	16-QAM		0	1732.5	20175	21.84	22	0-2		
				1753.5	20385	21.64	22	0-2		
				1711.5	19965	21.32	22	0-2		
		8 RB	4	1732.5	20175	21.47	22	0-2		
				1753.5	20385	21.57	22	0-2		
				1711.5	19965	21.46	22	0-2		
			7	1732.5	20175	21.74	22	0-2		
				1753.5	20385	21.47	22	0-2		
				1711.5	19965	21.27	22	0-2		
		15	RB	1732.5	20175	21.60	22	0-2		
			1753.5	20385	21.74	22	0-2			

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			FDD	Band 4 (Full P	ower)			
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
				1710.7	19957	23.43	24	0
			0	1732.5	20175	23.57	24	0
				1754.3	20393	23.25	24	0
				1710.7	19957	23.50	24	0
		1 RB	2	1732.5	20175	23.62	24	0
				1754.3	20393	23.62	24	0
				1710.7	19957	23.57	24	0
			5	1732.5	20175	23.66	24	0
				1754.3	20393	23.60	24	0
				1710.7 19957 23.52	24	0		
	QPSK		0	1732.5	20175	23.74	24	0
				1754.3	20393	23.55	24	0
				1710.7	19957	23.45	24	0
		3 RB	2	1732.5	20175	23.63 24 23.51 24 23.53 24	0	
				1754.3		24	0	
				1710.7	19957	23.53	24	0
			3	1732.5	20175	23.71	24	0
				1754.3	20393	23.57	24 23	0
				1710.7	19957	22.15	23	0-1
		6RB		1732.5	20175	22.71	23	0-1
1.4				1754.3	20393	22.33	23	0-1
1.4			0	1710.7	19957	22.63	23	0-1
				1732.5	20175	22.42	23	0-1
				1754.3	20393	22.42	23	0-1
		1 RB		1710.7	19957	22.27	23	0-1
			2	1732.5	20175	22.81	23	0-1
				1754.3	20393	22.77	23	0-1
				1710.7	19957	22.55	23	0-1
			5	1732.5	20175	22.67	23	0-1
				1754.3	20393	22.86	23	0-1
				1710.7	19957	22.38	23	0-1
	16-QAM		0	1732.5	20175	22.67	23	0-1
				1754.3	20393	22.37	23	0-1
				1710.7	19957	22.61	23	0-1
		3 RB	2	1732.5	20175	22.63	23	0-1
				1754.3	20393	22.37	23	0-1
				1710.7	19957	22.62	23	0-1
			3	1732.5	20175	22.55	23	0-1
				1754.3	20393	22.63	23	0-1
				1710.7	19957	21.43	22	0-2
		6F	RB	1732.5	20175	21.67	22	0-2
				1754.3	20393	21.47	22	0-2

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	FDD Band 4 (Reduced Power)									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)		
				1720	20050	18.38	18.5	0		
			0	1732.5	20175	18.48	18.5	0		
				1745	20300	18.42	18.5	0		
				1720	20050	18.33	18.5	0		
		1 RB	50	1732.5	20175	18.42	18.5	0		
				1745	20300	18.41	18.5	0		
			99	1720	20050	18.29	18.5	0		
				1732.5	20175	18.41	18.5	0		
				1745	20300	18.35	18.5	0		
			0	1720	20050	18.42	18.5	0-1		
	QPSK	SK		1732.5	20175	18.47	18.5	0-1		
				1745	20300	18.46	18.5	0-1		
				1720	20050	18.41	18.5	0-1		
		50 RB	25	1732.5	20175	18.36	18.5	0-1		
				1745	20300	50 18.40 18.5 75 18.45 18.5	0-1			
				1720	20050	18.40	18.5	0-1		
			50	1732.5	20175			0-1		
				1745	20300	18.39	18.5	0-1		
				1720	20050	18.44	18.5	0-1		
		100RB		1732.5	20175	18.47	18.5	0-1		
20				1745	20300	18.41	18.5	0-1		
		1 RB	0	1720	20050	18.28	18.5	0-1		
				1732.5	20175	18.44	18.5	0-1		
				1745	20300	18.43	18.5	0-1		
				1720	20050	18.45	18.5	0-1		
			50	1732.5	20175	18.28	18.5	0-1		
				1745	20300	18.44	18.5	0-1		
				1720	20050	18.46	18.5	0-1		
			99	1732.5	20175	18.31	18.5	0-1		
				1745	20300	18.25	18.5	0-1		
	40.044		_	1720	20050	18.28	18.5	0-2		
	16-QAM		0	1732.5	20175	18.43	18.5	0-2		
				1745	20300	18.42	18.5	0-2		
		50 DD	0.5	1720	20050	18.39	18.5	0-2		
		50 RB	25	1732.5	20175	18.48	18.5	0-2		
				1745	20300	18.47	18.5	0-2		
			F^	1720	20050	18.44	18.5	0-2		
			50	1732.5	20175	18.40	18.5	0-2		
				1745	20300	18.41	18.5	0-2		
		400	NDD	1720	20050	18.40	18.5	0-2		
		100)RB	1732.5	20175	18.46	18.5	0-2		
				1745	20300	18.43	18.5	0-2		

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FDD Band 4 (Reduced Power)									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
				1717.5	20025	18.36	18.5	0	
			0	1732.5	20175	18.45	18.5	0	
				1747.5	20325	18.49	18.5	0	
				1717.5	20025	18.33	18.5	0	
		1 RB	36	1732.5	20175	18.44	18.5	0	
				1747.5	20325	18.43	18.5	0	
			74	1717.5	20025	18.43	18.5	0	
				1732.5	20175	18.43	18.5	0	
				1747.5	20325	18.39	18.5	0	
			0	1717.5	20025	18.32	18.5	0-1	
	QPSK			1732.5	20175	18.44	18.5	0-1	
				1747.5	20325	18.47		0-1	
				1717.5	20025	20175 18.38 18.5 20325 18.45 18.5 20025 18.31 18.5	0-1		
		36 RB	18	1732.5	20175		0-1		
				1747.5	20325		0-1		
				1717.5	20025	18.31	18.5	0-1	
			37	1732.5	20175	18.41	18.5	0-1	
				1747.5	20325	18.37	18.5	0-1	
				1717.5	20025	18.34	18.5	0-1	
		75RB		1732.5	20175	18.49	18.5	0-1	
15			•	1747.5	20325	18.42	18.5	0-1	
			0	1717.5	20025	18.28	18.5	0-1	
				1732.5	20175	18.48	18.5	0-1	
		4.55		1747.5	20325	18.50	18.5	0-1	
				1717.5	20025	18.33	18.5	0-1	
		1 RB	36	1732.5	20175	18.41	18.5	0-1	
				1747.5	20325	18.37	18.5	0-1	
				1717.5	20025	18.40	18.5	0-1	
			74	1732.5	20175	18.46	18.5	0-1	
				1747.5	20325	18.39	18.5	0-1	
	16.0014		_	1717.5	20025	18.38	18.5	0-2	
	16-QAM		0	1732.5	20175	18.41	18.5	0-2	
				1747.5	20325	18.40	18.5	0-2	
		26 DD	40	1717.5	20025	18.30	18.5	0-2	
		36 RB	18	1732.5	20175	18.37	18.5	0-2	
				1747.5	20325	18.41	18.5	0-2	
			37	1717.5	20025	18.38	18.5	0-2	
			31	1732.5	20175	18.37	18.5	0-2	
				1747.5	20325	18.36	18.5	0-2	
		75	RB	1717.5	20025	18.36 18.47	18.5	0-2	
		/5	ND	1732.5	20175	1	18.5	0-2	
			1747.5	20325	18.49	18.5	0-2		

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	FDD Band 4 (Reduced Power)								
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)	
				1715	20000	18.28	18.5	0	
			0	1732.5	20175	18.41	18.5	0	
				1750	20350	18.49	18.5	0	
				1715	20000	18.27	18.5	0	
		1 RB	25	1732.5	20175	18.36	18.5	0	
				1750	20350	18.35	18.5	0	
			49	1715	20000	18.31	18.5	0	
				1732.5	20175	18.41	18.5	0	
				1750	20350	18.39	18.5	0	
			0	1715	20000	18.30	18.5	0-1	
	QPSK			1732.5	20175	18.38	18.5	0-1	
				1750	20350	18.48	18.5	0-1	
				1715	20000	18.27	18.5	0-1	
		25 RB	12	1732.5	20175	18.40	18.5	0-1	
				1750	20350	18.43	18.5	0-1	
				1715	20000	18.26	18.5	0-1	
			25	1732.5	20175	18.39	18.5	0-1	
				1750	20350	18.40	39 18.5 40 18.5 22 18.5	0-1	
				1715	20000	18.22	18.5	0-1	
		50	50RB		20175	18.42	18.5	0-1	
10				1750	20350	18.44	18.5	0-1	
10		1 RB	0	1715	20000	18.20	18.5	0-1	
				1732.5	20175	18.41	18.5	0-1	
				1750	20350	18.41	18.5	0-1	
				1715	20000	18.09	18.5	0-1	
			25	1732.5	20175	18.32	18.5	0-1	
				1750	20350	18.41	18.5	0-1	
				1715	20000	18.34	18.5	0-1	
			49	1732.5	20175	18.39	18.5	0-1	
				1750	20350	18.40	18.5	0-1	
				1715	20000	18.38	18.5	0-2	
	16-QAM		0	1732.5	20175	18.47	18.5	0-2	
				1750	20350	18.43	18.5	0-2	
				1715	20000	18.35	18.5	0-2	
		25 RB	12	1732.5	20175	18.43	18.5	0-2	
				1750	20350	18.49	18.5	0-2	
				1715	20000	18.33	18.5	0-2	
			25	1732.5	20175	18.42	18.5	0-2	
				1750	20350	18.44	18.5	0-2	
				1715	20000	18.30	18.5	0-2	
		50	RB	1732.5	20175	18.42	18.5	0-2	
				1750	20350	18.43	18.5	0-2	

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	FDD Band 4 (Reduced Power)											
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)				
				1712.5	19975	18.26	18.5	0				
			0	1732.5	20175	18.42	18.5	0				
				1752.5	20375	18.42	18.5	0				
				1712.5	19975	18.28	18.5	0				
		1 RB	12	1732.5	20175	18.42	18.5	0				
				1752.5	20375	18.37	18.5	0				
				1712.5	19975	18.23	18.5	0				
			24	1732.5	20175	18.40	18.5	0				
				1752.5	20375	18.39	18.5	0				
				1712.5	19975	18.33	18.5	0-1				
	QPSK		0	1732.5	20175	18.45	18.5	0-1				
				1752.5	20375	18.43	18.5	0-1				
				1712.5	19975	18.26	18.5	0-1				
		12 RB	6	1732.5	20175	18.44	18.5	0-1				
				1752.5	20375	18.38	18.5	0-1				
				1712.5	19975	18.37	18.5	0-1				
			13	1732.5	20175	18.36	18.5	0-1				
				1752.5	20375	18.34	18.5	0-1				
				1712.5	19975	18.29	18.5	0-1				
		25	RB	1732.5	20175	18.36	18.5	0-1				
5				1752.5	20375	18.38	18.5	0-1				
			0	1712.5	19975	18.18	18.5	0-1				
				1732.5	20175	18.35	18.5	0-1				
				1752.5	20375	18.20	18.5	0-1				
				1712.5	19975	18.20	18.5	0-1				
		1 RB	12	1732.5	20175	18.34	18.5	0-1				
				1752.5	20375	18.38	18.5	0-1				
				1712.5	19975	18.13	18.5	0-1				
			24	1732.5	20175	18.27	18.5	0-1				
				1752.5	20375	18.27	18.5	0-1				
				1712.5	19975	18.32	18.5	0-2				
	16-QAM		0	1732.5	20175	18.49	18.5	0-2				
				1752.5	20375	18.42	18.5	0-2				
				1712.5	19975	18.30	18.5	0-2				
		12 RB	6	1732.5	20175	18.45	18.5	0-2				
				1752.5	20375	18.47	18.5	0-2				
				1712.5	19975	18.38	18.5	0-2				
			13	1732.5	20175	18.49	18.5	0-2				
				1752.5	20375	18.43	18.5	0-2				
				1712.5	19975	18.40	18.5	0-2				
		25	RB	1732.5	20175	18.46	18.5	0-2				
						1752.5	20375	18.44	18.5	0-2		

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	FDD Band 4 (Reduced Power)											
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)				
				1711.5	19965	18.25	18.5	0				
			0	1732.5	20175	18.47	18.5	0				
				1753.5	20385	18.42	18.5	0				
				1711.5	19965	18.23	18.5	0				
		1 RB	7	1732.5	20175	18.39	18.5	0				
				1753.5	20385	18.35	18.5	0				
				1711.5	19965	18.28	18.5	0				
			14	1732.5	20175	18.42	18.5	0				
				1753.5	20385	18.38	18.5	0				
				1711.5	19965	18.26	18.5	0-1				
	QPSK		0	1732.5	20175	18.45	18.5	0-1				
				1753.5	20385	18.33	18.5	0-1				
				1711.5	19965	18.23	18.5	0-1				
		8 RB	4	1732.5	20175	18.43	18.5	0-1				
				1753.5	20385	18.34	18.5	0-1				
				1711.5	19965	18.33	18.5	0-1				
			7	1732.5	20175	18.45	18.5	0-1				
				1753.5	20385	18.39	18.5	0-1				
				1711.5	19965	18.29	18.5	0-1				
		15	RB	1732.5	20175	18.42	18.5	0-1				
3				1753.5	20385	18.42	18.5	0-1				
			0	1711.5	19965	18.27	18.5	0-1				
				1732.5	20175	18.40	18.5	0-1				
				1753.5	20385	18.35	18.5	0-1				
				1711.5	19965	18.23	18.5	0-1				
		1 RB	7	1732.5	20175	18.37	18.5	0-1				
				1753.5	20385	18.34	18.5	0-1				
				1711.5	19965	18.29	18.5	0-1				
			14	1732.5	20175	18.44	18.5	0-1				
				1753.5	20385	18.37	18.5	0-1				
				1711.5	19965	18.28	18.5	0-2				
	16-QAM		0	1732.5	20175	18.43	18.5	0-2				
				1753.5	20385	18.46	18.5	0-2				
				1711.5	19965	18.35	18.5	0-2				
		8 RB	4	1732.5	20175	18.50	18.5	0-2				
				1753.5	20385	18.46	18.5	0-2				
				1711.5	19965	18.33	18.5	0-2				
			7	1732.5	20175	18.49	18.5	0-2				
				1753.5	20385	18.44	18.5	0-2				
				1711.5	19965	18.28	18.5	0-2				
	15	15	RB	1732.5	20175	18.41	18.5	0-2				
						1753.5	20385	18.41	18.5	0-2		

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BW(Mhz) Modulation RB Size RB Offset Frequency (MHz) Channel Conducted power (dBm) Max. Tolerance (dBm) MPR Max. Tolerance (dBm) 1732.5 20175 18.23 18.5 0	FDD Band 4 (Reduced Power)											
O 1732.5 20175 18.37 18.5 0 1754.3 20393 18.35 18.5 0 1710.7 19957 18.26 18.5 0 1754.3 20393 18.35 18.5 0 1754.3 20393 18.42 18.5 0 1754.3 20393 18.42 18.5 0 1710.7 19957 18.34 18.5 0 1710.7 19957 18.34 18.5 0 1754.3 20393 18.41 18.5 0 1754.3 20393 18.41 18.5 0 1754.3 20393 18.41 18.5 0 1754.3 20393 18.41 18.5 0 1754.3 20393 18.44 18.5 0 1732.5 20175 18.44 18.5 0 1732.5 20175 18.42 18.5 0 1754.3 20393 18.45 18.5 0 1754.3 20393 18.45 18.5 0 1754.3 20393 18.38 18.5 0 1710.7 19957 18.32 18.5 0 1754.3 20393 18.38 18.5 0 1754.3 20393 18.37 18.5 0 1754.3 20393 18.37 18.5 0 1754.3 20393 18.37 18.5 0 1755.3 20393 18.37 18.5 0 1755.3 20393 18.37 18.5 0 1755.3 20393 18.37 18.5 0 1755.3 20393 18.45 18.5 0-1 1755.3 20393 18.45 18.5 0-1 1755.3 20393 18.45 18.5 0-1 1755.3 20393 18.45 18.5 0-1 1755.3 20393 18.45 18.5 0-1 1755.3 20393 18.45 18.5 0-1 1755.3 20393 18.55 18.5 0-1 1755.3 20393 18.25 18.5 0-1	BW(Mhz)	Modulation	RB Size	RB Offset		Channel		Power + Max. Tolerance	Allowed per			
1 RB 2 1754.3 20393 18.35 18.5 0 1710.7 19957 18.26 18.5 0 1710.7 19957 18.26 18.5 0 1710.7 19957 18.34 18.5 0 1710.7 19957 18.34 18.5 0 1710.7 19957 18.34 18.5 0 1710.7 19957 18.34 18.5 0 1710.7 19957 18.34 18.5 0 1710.7 19957 18.30 18.5 0 1710.7 19957 18.30 18.5 0 1710.7 19957 18.30 18.5 0 1710.7 19957 18.30 18.5 0 1710.7 19957 18.22 18.5 0 1710.7 19957 18.22 18.5 0 1710.7 19957 18.22 18.5 0 1710.7 19957 18.22 18.5 0 1710.7 19957 18.32 18.5 0 1710.7 19957 18.32 18.5 0 1710.7 19957 18.32 18.5 0 1710.7 19957 18.32 18.5 0 1710.7 19957 18.30 18.5 0 1710.7 19957 18.30 18.5 0 1710.7 19957 18.30 18.5 0 1710.7 19957 18.30 18.5 0 1710.7 19957 18.30 18.5 0 1710.7 19957 18.30 18.5 0 1 1710.7 19957 18.30 18.5 0 1 1710.7 19957 18.30 18.5 0 1 1754.3 20393 18.45 18.5 0 1 1754.3 20393 18.45 18.5 0 1 1754.3 20393 18.45 18.5 0 1 1754.3 20393 18.45 18.5 0 1 1754.3 20393 18.45 18.5 0 1 1754.3 20393 18.45 18.5 0 1 1754.3 20393 18.45 18.5 0 1 1754.3 20393 18.45 18.5 0 1 1754.3 20393 18.45 18.5 0 1 1754.3 20393 18.45 18.5 0 1 1754.3 20393 18.45 18.5 0 1 1754.3 20393 18.45 18.5 0 1 1754.3 20393 18.45 18.5 0 1 1754.3 20393 18.45 18.5 0 1 1754.3 20393 18.45 18.5 0 1 1754.3 20393 18.45 18.5 0 1 1754.3 20393 18.45 18.5 0 1 1754.3 20393 18.25 18.5 0 1 1 1 1754.3 20393 18.3					1710.7	19957	18.23	18.5	0			
APSK 1 RB 2				0	1732.5	20175	18.37	18.5	0			
A RB 2 1732.5 20175 18.43 18.5 0 1754.3 20393 18.42 18.5 0 1710.7 19957 18.34 18.5 0 1754.3 20393 18.41 18.5 0 1754.3 20393 18.41 18.5 0 1754.3 20393 18.41 18.5 0 1754.3 20393 18.41 18.5 0 1710.7 19957 18.30 18.5 0 1732.5 20175 18.44 18.5 0 1754.3 20393 18.45 18.5 0 1754.3 20393 18.45 18.5 0 1754.3 20393 18.45 18.5 0 1754.3 20393 18.45 18.5 0 1754.3 20393 18.38 18.5 0 1754.3 20393 18.38 18.5 0 17554.3 20393 18.38 18.5 0 17554.3 20393 18.37 18.5 0 17554.3 20393 18.37 18.5 0 17554.3 20393 18.37 18.5 0 17554.3 20393 18.37 18.5 0 17554.3 20393 18.37 18.5 0 17554.3 20393 18.45 18.5 0 17554.3 20393 18.45 18.5 0 17554.3 20393 18.45 18.5 0 17554.3 20393 18.45 18.5 0 17554.3 20393 18.45 18.5 0 1 17554.3 20393 18.45 18.5 0 1 17554.3 20393 18.45 18.5 0 1 17554.3 20393 18.45 18.5 0 1 17554.3 20393 18.45 18.5 0 1 17554.3 20393 18.25 18.5 0 1 17554.3 20393 18.55 18.5 0 1 17554.3 20393 18.55 18.5 0 1 17554.3 20393 18.55 18.5 0 1 17554.3 20354 20354 20354 20354 20354 20354 20354 20354 20354 20354 20354					1754.3	20393	18.35	18.5	0			
1754.3 20393 18.42 18.5 0 1710.7 19957 18.34 18.5 0 1732.5 20175 18.45 18.5 0 1754.3 20393 18.41 18.5 0 1754.3 20393 18.41 18.5 0 1710.7 19957 18.30 18.5 0 1732.5 20175 18.44 18.5 0 1754.3 20393 18.45 18.5 0 1754.3 20393 18.45 18.5 0 1754.3 20393 18.45 18.5 0 1710.7 19957 18.22 18.5 0 1710.7 19957 18.22 18.5 0 1710.7 19957 18.32 18.5 0 1710.7 19957 18.32 18.5 0 1754.3 20393 18.38 18.5 0 1754.3 20393 18.37 18.5 0 1754.3 20393 18.37 18.5 0 1754.3 20393 18.37 18.5 0 1754.3 20393 18.45 18.5 0-1 1754.3 20393 18.45 18.5 0-1 1754.3 20393 18.45 18.5 0-1 1754.3 20393 18.45 18.5 0-1 1754.3 20393 18.45 18.5 0-1 1754.3 20393 18.45 18.5 0-1 1754.3 20393 18.45 18.5 0-1 1754.3 20393 18.25 18.5 0-1 1754.3 20393 18.25 18.5 0-1					1710.7	19957	18.26	18.5	0			
APSK QPSK 0 1710.7 19957 18.34 18.5 0 1754.3 20393 18.41 18.5 0 1754.3 20393 18.41 18.5 0 1710.7 19957 18.30 18.5 0 1710.7 19957 18.30 18.5 0 1754.3 20393 18.44 18.5 0 1754.3 20393 18.45 18.5 0 1754.3 20393 18.45 18.5 0 1710.7 19957 18.22 18.5 0 1710.7 19957 18.22 18.5 0 1710.7 19957 18.32 18.5 0 1710.7 19957 18.32 18.5 0 1710.7 19957 18.32 18.5 0 1710.7 19957 18.32 18.5 0 1710.7 19957 18.30 18.5 0 1754.3 20393 18.37 18.5 0 1754.3 20393 18.37 18.5 0 1754.3 20393 18.37 18.5 0 1710.7 19957 18.30 18.5 0-1 1754.3 20393 18.45 18.5 0-1 1754.3 20393 18.45 18.5 0-1 1754.3 20393 18.45 18.5 0-1 1754.3 20393 18.45 18.5 0-1 1754.3 20393 18.45 18.5 0-1 1754.3 20393 18.25 18.5 0-1 1710.7 19957 18.09 18.5 0-1 1754.3 20393 18.25 18.5 0-1			1 RB	2	1732.5	20175	18.43	18.5	0			
APSK QPSK 0 1732.5 20175 18.45 18.5 0 1754.3 20393 18.41 18.5 0 1710.7 19957 18.30 18.5 0 1732.5 20175 18.44 18.5 0 1754.3 20393 18.45 18.5 0 1754.3 20393 18.45 18.5 0 1754.3 20393 18.45 18.5 0 1710.7 19957 18.22 18.5 0 1710.7 19957 18.22 18.5 0 1754.3 20393 18.38 18.5 0 1710.7 19957 18.32 18.5 0 1710.7 19957 18.32 18.5 0 1710.7 19957 18.32 18.5 0 1754.3 20393 18.37 18.5 0 1754.3 20393 18.37 18.5 0 1754.3 20393 18.37 18.5 0 1710.7 19957 18.30 18.5 0-1 1754.3 20393 18.45 18.5 0-1 1754.3 20393 18.45 18.5 0-1 1754.3 20393 18.45 18.5 0-1 1754.3 20393 18.45 18.5 0-1 1754.3 20393 18.25 18.5 0-1 1754.3 20393 18.25 18.5 0-1					1754.3	20393	18.42	18.5	0			
APSK QPSK 0 1754.3 20393 18.41 18.5 0 1710.7 19957 18.30 18.5 0 1754.3 20393 18.44 18.5 0 1754.3 20393 18.45 18.5 0 1754.3 20393 18.45 18.5 0 1710.7 19957 18.22 18.5 0 1732.5 20175 18.42 18.5 0 1754.3 20393 18.38 18.5 0 1710.7 19957 18.32 18.5 0 1710.7 19957 18.32 18.5 0 1710.7 19957 18.30 18.5 0 1710.7 19957 18.30 18.5 0 1710.7 19957 18.30 18.5 0 1710.7 19957 18.43 18.5 0 1710.7 19957 18.43 18.5 0-1 1754.3 20393 18.45 18.5 0-1 1754.3 20393 18.45 18.5 0-1 1754.3 20393 18.45 18.5 0-1 1754.3 20393 18.45 18.5 0-1 1754.3 20393 18.45 18.5 0-1 1754.3 20393 18.25 18.5 0-1 1710.7 19957 18.24 18.5 0-1				_	1710.7	19957	18.34	18.5	0			
APSK O 1710.7 19957 18.30 18.5 0 1732.5 20175 18.44 18.5 0 1754.3 20393 18.45 18.5 0 1710.7 19957 18.22 18.5 0 1710.7 19957 18.22 18.5 0 1754.3 20393 18.38 18.5 0 1710.7 19957 18.32 18.5 0 1710.7 19957 18.32 18.5 0 1710.7 19957 18.32 18.5 0 1710.7 19957 18.32 18.5 0 1754.3 20393 18.37 18.5 0 1754.3 20393 18.37 18.5 0 1710.7 19957 18.30 18.5 0-1 1754.3 20393 18.45 18.5 0-1 1754.3 20393 18.45 18.5 0-1 1754.3 20393 18.45 18.5 0-1 1754.3 20393 18.45 18.5 0-1 1754.3 20393 18.45 18.5 0-1 1754.3 20393 18.25 18.5 0-1 1754.3 20393 18.25 18.5 0-1 1754.3 20393 18.25 18.5 0-1 1754.3 20393 18.25 18.5 0-1				5	1732.5	20175	18.45	18.5	0			
1.4 O									0			
1.4 1754.3 20393 18.45 18.5 0			SK						0			
1.4 1710.7 19957 18.22 18.5 0 1732.5 20175 18.42 18.5 0 1754.3 20393 18.38 18.5 0 1710.7 19957 18.32 18.5 0 1732.5 20175 18.49 18.5 0 1754.3 20393 18.37 18.5 0 1710.7 19957 18.30 18.5 0 1732.5 20175 18.43 18.5 0 1732.5 20175 18.43 18.5 0 1754.3 20393 18.45 18.5 0 1710.7 19957 18.09 18.5 0 1732.5 20175 18.45 18.5 0 1732.5 20175 18.45 18.5 0 1754.3 20393 18.25 18.5 0 1710.7 19957 18.24 18.5 0 1710.7 19957 18.24 18.5 0		QPSK		0								
1.4 3 RB 2 1732.5 20175 18.42 18.5 0					1754.3	20393		18.5	0			
1.4 1754.3 20393 18.38 18.5 0 1710.7 19957 18.32 18.5 0 1732.5 20175 18.49 18.5 0 1754.3 20393 18.37 18.5 0 1710.7 19957 18.30 18.5 0-1 1754.3 20393 18.43 18.5 0-1 1754.3 20393 18.45 18.5 0-1 1754.3 20393 18.45 18.5 0-1 1710.7 19957 18.09 18.5 0-1 1710.7 19957 18.45 18.5 0-1 1754.3 20393 18.25 18.5 0-1 1710.7 19957 18.24 18.5 0-1							18.22		0			
1.4 1710.7			3 RB	2								
1.4 3												
1.4 1754.3 20393 18.37 18.5 0 1710.7 19957 18.30 18.5 0-1 1732.5 20175 18.43 18.5 0-1 1754.3 20393 18.45 18.5 0-1 1710.7 19957 18.09 18.5 0-1 1732.5 20175 18.45 18.5 0-1 1732.5 20175 18.45 18.5 0-1 1754.3 20393 18.25 18.5 0-1 1710.7 19957 18.24 18.5 0-1												
1.4 1710.7 19957 18.30 18.5 0-1 1732.5 20175 18.43 18.5 0-1 1754.3 20393 18.45 18.5 0-1 1710.7 19957 18.09 18.5 0-1 1732.5 20175 18.45 18.5 0-1 1754.3 20393 18.25 18.5 0-1 1754.3 20393 18.25 18.5 0-1 1710.7 19957 18.24 18.5 0-1				3								
1.4 1.732.5 20175 18.43 18.5 0-1 1754.3 20393 18.45 18.5 0-1 1710.7 19957 18.09 18.5 0-1 1732.5 20175 18.45 18.5 0-1 1754.3 20393 18.25 18.5 0-1 1710.7 19957 18.24 18.5 0-1												
1.4 1754.3 20393 18.45 18.5 0-1 1710.7 19957 18.09 18.5 0-1 0 1732.5 20175 18.45 18.5 0-1 1754.3 20393 18.25 18.5 0-1 1710.7 19957 18.24 18.5 0-1												
1.4 0 1710.7 19957 18.09 18.5 0-1 1732.5 20175 18.45 18.5 0-1 1754.3 20393 18.25 18.5 0-1 1710.7 19957 18.24 18.5 0-1			6F	RB								
0 1732.5 20175 18.45 18.5 0-1 1754.3 20393 18.25 18.5 0-1 1710.7 19957 18.24 18.5 0-1	1.4			1					•			
1754.3 20393 18.25 18.5 0-1 1710.7 19957 18.24 18.5 0-1				0								
1710.7 19957 18.24 18.5 0-1												
1 RB 2 1/32.5 201/5 18.33 18.5 0-1			4 DD						•			
4754.0 00000 40.45 40.5 0.4			TRB	2								
1754.3 20393 18.45 18.5 0-1												
1710.7 19957 18.27 18.5 0-1 5 1732.5 20175 18.44 18.5 0-1				F								
				5			1		•			
1754.3 20393 18.45 18.5 0-1 1710.7 19957 18.22 18.5 0-1												
16-QAM 0 1732.5 20175 18.40 18.5 0-1		16-OAM		n								
1754.3 20393 18.29 18.5 0-1		10-QAIVI		J								
1754.3 20393 18.29 18.5 0-1 1710.7 19957 18.20 18.5 0-1												
3 RB 2 1732.5 20175 18.25 18.5 0-1			3 RB	2								
1754.3 20393 18.40 18.5 0-1			0.00									
1710.7 19957 18.28 18.5 0-1												
3 1732.5 20175 18.44 18.5 0-1				3			1					
1754.3 20393 18.46 18.5 0-1												
1710.7 19957 18.16 18.5 0-2							1					
6RB 1732.5 20175 18.36 18.5 0-2			6F	RB								
1754.3 20393 18.30 18.5 0-2							•					

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FDD Band 5 (Full Power)											
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)			
				829	20450	23.07	24	0			
			0	836.5	20525	23.46	24	0			
				844	20600	23.26	24	0			
				829	20450	22.96	24	0			
		1 RB	25	836.5	20525	23.17	24	0			
				844	20600	23.27	24	0			
				829	20450	23.12	24	0			
			49	836.5	20525	23.20	24	0			
				844	20600	23.18	24	0			
			0	829	20450	22.06	23	0-1			
	QPSK			836.5	20525	22.24	23	0-1			
				844	20600	22.29	23	0-1			
				829	20450	22.17	23	0-1			
		25 RB	12	836.5	20525	22.18	23	0-1			
				844	20600	22.29	23	0-1			
				829	20450	22.21	23	0-1			
			25	836.5	20525	22.16	23	0-1			
				844	20600	22.19	23	0-1			
				829	20450	22.18	23	0-1			
		50	RB	836.5	20525	22.35	23	0-1			
10				844	20600	22.35	23	0-1			
10				829	20450	22.07	23	0-1			
			0	836.5	20525	22.04	23	0-1			
				844	20600	22.28	23	0-1			
				829	20450	21.74	23	0-1			
		1 RB	25	836.5	20525	21.62	23	0-1			
				844	20600	22.45	23	0-1			
				829	20450	22.00	23	0-1			
			49	836.5	20525	22.49	23	0-1			
				844	20600	22.44	23	0-1			
				829	20450	21.13	22	0-2			
	16-QAM		0	836.5	20525	20.97	22	0-2			
				844	20600	21.33	22	0-2			
				829	20450	21.07	22	0-2			
		25 RB	12	836.5	20525	21.13	22	0-2			
				844	20600	21.32	22	0-2			
				829	20450	21.19	22	0-2			
			25	836.5	20525	21.13	22	0-2			
				844	20600	21.27	22	0-2			
				829	20450	21.10	22	0-2			
		50	RB	836.5	20525	21.21	22	0-2			
				844	20600	21.33	22	0-2			

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	FDD Band 5 (Full Power)											
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)				
				826.5	20425	22.95	24	0				
			0	836.5	20525	23.13	24	0				
				846.5	20625	23.23	24	0				
				826.5	20425	23.03	24	0				
		1 RB	12	836.5	20525	23.14	24	0				
				846.5	20625	23.30	24	0				
				826.5	20425	23.00	24	0				
			24	836.5	20525	23.22	24	0				
				846.5	20625	23.19	24	0				
				826.5	20425	22.01	23	0-1				
	QPSK		0	836.5	20525	22.24	23	0-1				
				846.5	20625	22.32	23	0-1				
				826.5	20425	22.11	23	0-1				
		12 RB	6	836.5	20525	22.17	23	0-1				
				846.5	20625	22.28	23	0-1				
				826.5	20425	22.16	23	0-1				
			13	836.5	20525	22.27	23	0-1				
				846.5	20625	22.26	23	0-1				
				826.5	20425	22.03	23	0-1				
		25	RB	836.5	20525	22.25	23	0-1				
5				846.5	20625	22.24	23	0-1				
				826.5	20425	21.89	23	0-1				
			0	836.5	20525	21.74	23	0-1				
				846.5	20625	22.06	23	0-1				
				826.5	20425	21.85	23	0-1				
		1 RB	12	836.5	20525	22.27	23	0-1				
				846.5	20625	22.01	23	0-1				
				826.5	20425	21.82	23	0-1				
			24	836.5	20525	22.15	23	0-1				
				846.5	20625	22.03	23	0-1				
	40.0444			826.5	20425	21.07	22	0-2				
	16-QAM		0	836.5	20525	21.36	22	0-2				
				846.5	20625	21.30	22	0-2				
		40.00	_	826.5	20425	21.07	22	0-2				
		12 RB	6	836.5	20525	21.14	22	0-2				
				846.5	20625	21.29	22	0-2				
			40	826.5	20425	21.10	22	0-2				
			13	836.5	20525	21.19	22	0-2				
				846.5	20625	21.18	22	0-2				
		0.5	DD	826.5	20425	21.06	22	0-2				
		25	RB	836.5	20525	21.24	22	0-2				
						846.5	20625	21.18	22	0-2		

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FDD Band 5 (Full Power)										
	Frequency Conducted Power + MPR									
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Max. Tolerance (dBm)	Allowed per 3GPP(dB)		
				825.5	20415	22.94	24	0		
			0	836.5	20525	23.05	24	0		
				847.5	20635	23.31	24	0		
				825.5	20415	23.09	24	0		
		1 RB	7	836.5	20525	23.16	24	0		
				847.5	20635	23.17	24	0		
				825.5	20415	23.05	24	0		
			14	836.5	20525	23.25	24	0		
				847.5	20635	23.20	24	0		
				825.5	20415	22.06	23	0-1		
	QPSK		0	836.5	20525	22.22	23	0-1		
				847.5	20635	22.31	23	0-1		
				825.5	20415	22.03	23	0-1		
		8 RB	4	836.5	20525	22.23	23	0-1		
				847.5	20635	22.25	23	0-1		
				825.5	20415	22.06	23	0-1		
			7	836.5	20525	22.21	23	0-1		
				847.5	20635	22.24	23	0-1		
				825.5	20415	22.00	23	0-1		
		15RB		836.5	20525	22.21	23	0-1		
3			T	847.5	20635	22.19	23	0-1		
			0	825.5	20415	21.40	23	0-1		
				836.5	20525	21.66	23	0-1		
				847.5	20635	22.10	23	0-1		
			_	825.5	20415	21.96	23	0-1		
		1 RB	7	836.5	20525	22.32	23	0-1		
				847.5	20635	21.92	23	0-1		
				825.5	20415	22.31	23	0-1		
			14	836.5	20525	22.04	23	0-1		
				847.5	20635	22.35	23	0-1		
	40.0444		0	825.5	20415	21.06	22	0-2		
	16-QAM		0	836.5	20525	21.19	22	0-2		
				847.5	20635	21.32	22	0-2		
		0.00	1 ,	825.5	20415	21.02	22	0-2		
		8 RB	4	836.5	20525	21.30	22	0-2		
				847.5	20635	21.12	22	0-2		
] ,	825.5	20415	21.05	22	0-2		
			7	836.5	20525	21.21	22	0-2		
				847.5	20635	21.30	22	0-2		
			DD	825.5	20415	21.08	22	0-2		
		15	RB	836.5	20525	21.20	22	0-2		
				847.5	20635	21.22	22	0-2		

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	FDD Band 5 (Full Power)											
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)				
				824.7	20407	22.95	24	0				
			0	836.5	20525	23.04	24	0				
				848.3	20643	23.13	24	0				
				824.7	20407	23.03	24	0				
		1 RB	2	836.5	20525	23.20	24	0				
				848.3	20643	23.40	24	0				
			5	824.7	20407	23.01	24	0				
				836.5	20525	23.24	24	0				
				848.3	20643	23.32	24	0				
				824.7	20407	23.09	24	0				
	QPSK		0	836.5	20525	23.24	24	0				
				848.3	20643	23.01	24	0				
				824.7	20407	23.02	24	0				
		3 RB	2	836.5	20525	23.24	24	0				
				848.3	20643	23.31	24	0				
				824.7	20407	23.07	24	0				
			3	836.5	20525	23.22	24	0				
				848.3	20643	23.18	24	0				
				824.7	20407	22.14	23	0-1				
		6F	RB	836.5	20525	22.25	23	0-1				
1.4				848.3	20643	22.30	23	0-1				
1.4			0	824.7	20407	21.97	23	0-1				
				836.5	20525	21.90	23	0-1				
				848.3	20643	22.45	23	0-1				
				824.7	20407	22.12	23	0-1				
		1 RB	2	836.5	20525	22.04	23	0-1				
				848.3	20643	21.75	23	0-1				
				824.7	20407	21.89	23	0-1				
			5	836.5	20525	22.50	23	0-1				
				848.3	20643	22.31	23	0-1				
				824.7	20407	22.07	23	0-1				
	16-QAM		0	836.5	20525	22.24	23	0-1				
				848.3	20643	22.46	23	0-1				
				824.7	20407	22.05	23	0-1				
		3 RB	2	836.5	20525	22.21	23	0-1				
				848.3	20643	22.28	23	0-1				
				824.7	20407	21.86	23	0-1				
			3	836.5	20525	22.20	23	0-1				
				848.3	20643	22.12	23	0-1				
				824.7	20407	20.96	22	0-2				
		6F	RB	836.5	20525	21.17	22	0-2				
			OND		848.3	20643	21.17	22	0-2			

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FDD Band 5 (Reduced Power)											
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)			
				829	20450	20.39	20.5	0			
			0	836.5	20525	20.45	20.5	0			
				844	20600	20.42	20.5	0			
				829	20450	20.06	20.5	0			
		1 RB	25	836.5	20525	20.12	20.5	0			
				844	20600	20.38	20.5	0			
			49	829	20450	20.24	20.5	0			
				836.5	20525	20.24	20.5	0			
				844	20600	20.20	20.5	0			
				829	20450	20.27	20.5	0-1			
	QPSK	25 RB	0	836.5	20525	20.39	20.5	0-1			
				844	20600	20.31	20.5	0-1			
			40	829	20450	20.13	20.5	0-1			
			12	836.5	20525	20.18	20.5	0-1			
				844	20600	20.27	20.5	0-1			
				829	20450	20.18	20.5	0-1			
			25	836.5	20525	20.22	20.5	0-1			
				844	20600	20.19	20.5	0-1			
				829	20450	20.14	20.5	0-1			
		50	RB	836.5	20525	20.32	20.5	0-1			
10				844	20600	20.26	20.5	0-1			
			0	829	20450	19.97	20.5	0-1			
				836.5	20525	20.16	20.5	0-1			
				844	20600	20.23	20.5	0-1			
				829	20450	20.00	20.5	0-1			
		1 RB	25	836.5	20525	20.10	20.5	0-1			
				844	20600	20.18	20.5	0-1			
				829	20450	20.20	20.5	0-1			
			49	836.5	20525	20.19	20.5	0-1			
				844	20600	20.17	20.5	0-1			
				829	20450	20.03	20.5	0-2			
	16-QAM		0	836.5	20525	20.28	20.5	0-2			
				844	20600	20.41	20.5	0-2			
				829	20450	20.11	20.5	0-2			
		25 RB	12	836.5	20525	20.24	20.5	0-2			
				844	20600	20.37	20.5	0-2			
				829	20450	20.33	20.5	0-2			
			25	836.5	20525	20.18	20.5	0-2			
				844	20600	20.24	20.5	0-2			
				829	20450	20.12	20.5	0-2			
		50	RB	836.5	20525	20.17	20.5	0-2			
				844	20600	20.36	20.5	0-2			

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	FDD Band 5 (Reduced Power)											
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)				
				826.5	20425	20.08	20.5	0				
			0	836.5	20525	20.30	20.5	0				
				846.5	20625	20.39	20.5	0				
				826.5	20425	20.18	20.5	0				
		1 RB	12	836.5	20525	20.23	20.5	0				
				846.5	20625	20.34	20.5	0				
				826.5	20425	20.11	20.5	0				
			24	836.5	20525	20.25	20.5	0				
				846.5	20625	20.27	20.5	0				
				826.5	20425	20.11	20.5	0-1				
	QPSK		0	836.5	20525	20.35	20.5	0-1				
				846.5	20625	20.42	20.5	0-1				
				826.5	20425	20.22	20.5	0-1				
		12 RB	6	836.5	20525	20.36	20.5	0-1				
				846.5	20625	20.44	20.5	0-1				
				826.5	20425	20.20	20.5	0-1				
			13	836.5	20525	20.27	20.5	0-1				
				846.5	20625	20.34	20.5	0-1				
				826.5	20425	20.11	20.5	0-1				
		25	RB	836.5	20525	20.28	20.5	0-1				
5				846.5	20625	20.35	20.5	0-1				
3				826.5	20425	20.08	20.5	0-1				
			0	836.5	20525	20.22	20.5	0-1				
				846.5	20625	20.34	20.5	0-1				
				826.5	20425	20.11	20.5	0-1				
		1 RB	12	836.5	20525	20.17	20.5	0-1				
				846.5	20625	20.39	20.5	0-1				
				826.5	20425	20.05	20.5	0-1				
			24	836.5	20525	20.18	20.5	0-1				
				846.5	20625	20.16	20.5	0-1				
				826.5	20425	20.21	20.5	0-2				
	16-QAM		0	836.5	20525	20.39	20.5	0-2				
				846.5	20625	20.47	20.5	0-2				
				826.5	20425	20.27	20.5	0-2				
		12 RB	6	836.5	20525	20.40	20.5	0-2				
				846.5	20625	20.43	20.5	0-2				
				826.5	20425	20.25	20.5	0-2				
			13	836.5	20525	20.29	20.5	0-2				
				846.5	20625	20.34	20.5	0-2				
				826.5	20425	20.15	20.5	0-2				
	25	RB	836.5	20525	20.35	20.5	0-2					
				846.5	20625	20.34	20.5	0-2				

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FDD Band 5 (Reduced Power)										
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)		
				825.5	20415	20.10	20.5	0		
			0	836.5	20525	20.33	20.5	0		
				847.5	20635	20.44	20.5	0		
				825.5	20415	20.02	20.5	0		
		1 RB	7	836.5	20525	20.28	20.5	0		
				847.5	20635	20.25	20.5	0		
				825.5	20415	20.22	20.5	0		
			14	836.5	20525	20.24	20.5	0		
				847.5	20635	20.30	20.5	0		
					825.5	20415	20.16	20.5	0-1	
	QPSK		0	836.5	20525	20.34	20.5	0-1		
				847.5	20635	20.43	20.5	0-1		
				825.5	20415	20.09	20.5	0-1		
		8 RB	4	836.5	20525	20.27	20.5	0-1		
				847.5	20635	20.30	20.5	0-1		
				825.5	20415	20.10	20.5	0-1		
			7	836.5	20525	20.26	20.5	0-1		
				847.5	20635	20.34	20.5	0-1		
				825.5	20415	20.11	20.5	0-1		
		15RB		836.5	20525	20.25	20.5	0-1		
3			_	847.5	20635	20.26	20.5	0-1		
				825.5	20415	19.97	20.5	0-1		
			0	836.5	20525	20.19	20.5	0-1		
				847.5	20635	20.25	20.5	0-1		
				825.5	20415	20.00	20.5	0-1		
		1 RB	7	836.5	20525	20.11	20.5	0-1		
				847.5	20635	20.17	20.5	0-1		
				825.5	20415	20.08	20.5	0-1		
			14	836.5	20525	20.17	20.5	0-1		
				847.5	20635	20.10	20.5	0-1		
				825.5	20415	20.15	20.5	0-2		
	16-QAM		0	836.5	20525	20.37	20.5	0-2		
				847.5	20635	20.40	20.5	0-2		
				825.5	20415	20.14	20.5	0-2		
		8 RB	4	836.5	20525	20.38	20.5	0-2		
				847.5	20635	20.33	20.5	0-2		
			_	825.5	20415	20.16	20.5	0-2		
			7	836.5	20525	20.32	20.5	0-2		
				847.5	20635	20.36	20.5	0-2		
				825.5	20415	20.11	20.5	0-2		
		15RE	RB	836.5	20525	20.31	20.5	0-2		
				847.5	20635	20.34	20.5	0-2		

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	FDD Band 5 (Reduced Power)											
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)				
				824.7	20407	20.11	20.5	0				
			0	836.5	20525	20.29	20.5	0				
				848.3	20643	20.36	20.5	0				
				824.7	20407	20.13	20.5	0				
		1 RB	2	836.5	20525	20.32	20.5	0				
				848.3	20643	20.37	20.5	0				
			5	824.7	20407	20.15	20.5	0				
				836.5	20525	20.41	20.5	0				
				848.3	20643	20.22	20.5	0				
				824.7	20407	20.23	20.5	0				
	QPSK		0	836.5	20525	20.36	20.5	0				
				848.3	20643	20.39	20.5	0				
				824.7	20407	20.21	20.5	0				
		3 RB	2	836.5	20525	20.27	20.5	0				
				848.3	20643	20.37	20.5	0				
				824.7	20407	20.23	20.5	0				
			3	836.5	20525	20.29	20.5	0				
				848.3	20643	20.35	20.5	0				
				824.7	20407	20.22	20.5	0-1				
		6F	RB	836.5	20525	20.27	20.5	0-1				
1.4				848.3	20643	20.38	20.5	0-1				
17			0	824.7	20407	20.18	20.5	0-1				
				836.5	20525	20.42	20.5	0-1				
				848.3	20643	20.33	20.5	0-1				
				824.7	20407	20.16	20.5	0-1				
		1 RB	2	836.5	20525	20.27	20.5	0-1				
				848.3	20643	20.37	20.5	0-1				
				824.7	20407	20.04	20.5	0-1				
			5	836.5	20525	20.38	20.5	0-1				
				848.3	20643	20.31	20.5	0-1				
				824.7	20407	20.14	20.5	0-1				
	16-QAM		0	836.5	20525	20.29	20.5	0-1				
				848.3	20643	20.27	20.5	0-1				
				824.7	20407	20.14	20.5	0-1				
		3 RB	2	836.5	20525	20.24	20.5	0-1				
				848.3	20643	20.28	20.5	0-1				
				824.7	20407	20.12	20.5	0-1				
			3	836.5	20525	20.32	20.5	0-1				
				848.3	20643	20.24	20.5	0-1				
				824.7	20407	20.08	20.5	0-2				
		6F	RB	836.5	20525	20.22	20.5	0-2				
		OKE	OND	848.3	20643	20.30	20.5	0-2				

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	FDD Band 7 (Full Power)											
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)				
				2510	20850	23.27	24	0				
			0	2535	21100	23.45	24	0				
				2560	21350	23.45	24	0				
				2510	20850	23.13	24	0				
		1 RB	50	2535	21100	23.52	24	0				
				2560	21350	23.36	24	0				
				2510	20850	23.19	24	0				
			99	2535	21100	23.51	24	0				
				2560	21350	23.35	24	0				
			0	2510	20850	23.00	23	0-1				
	QPSK			2535	21100	22.45	23	0-1				
				2560	21350	22.51	23	0-1				
		50 RB		2510	20850	22.28	23	0-1				
			25	2535	21100	22.51	23	0-1				
				2560	21350	22.41	23	0-1				
				2510	20850	22.27	23	0-1				
			50	2535	21100	22.44	23	0-1				
				2560	21350	22.29	23	0-1				
				2510	20850	22.25	23	0-1				
		100	ORB	2535	21100	22.49	23	0-1				
20			1	2560	21350	22.31	23	0-1				
				2510	20850	22.33	23	0-1				
			0	2535	21100	22.52	23	0-1				
				2560	21350	22.12	23	0-1				
		4.00	50	2510	20850	22.01	23	0-1				
		1 RB	50	2535	21100	22.29	23	0-1				
				2560	21350	22.23	23	0-1				
			00	2510	20850	22.08	23	0-1				
			99	2535	21100	21.81	23	0-1				
				2560	21350	22.34	23	0-1				
	16 0 4 14		_	2510	20850	21.35	22	0-2				
	16-QAM		0	2535	21100	21.40	22	0-2				
				2560	21350	21.59	22	0-2				
		50 RB	25	2510 2535	20850 21100	21.25 21.52	22 22	0-2 0-2				
		OU KD	25				22	0-2				
				2560 2510	21350	21.34						
			50		20850 21100	21.30	22 22	0-2 0-2				
] 30	2535 2560		21.48 21.33	22	0-2				
				2560 2510	21350 20850	21.33	22	0-2				
		100)RR	2535	21100	21.47	22	0-2				
		100R	,,,,,	2560	21350	21.47	22	0-2				
				∠ენ∪	Z 135U	۷۱.39	22	0-2				

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			FDD	Band 7 (Full P	ower)					
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)		
				2507.5	20825	23.10	24	0		
			0	2535	21100	23.21	24	0		
				2562.5	21375	23.30	24	0		
				2507.5	20825	22.85	24	0		
		1 RB	36	2535	21100	23.33	24	0		
				2562.5	21375	23.27	24	0		
				2507.5	20825	23.15	24	0		
			74	2535	21100	23.41	24	0		
				2562.5	21375	23.20	24	0		
				2507.5	20825	22.18	23	0-1		
	QPSK		0	2535	21100	22.50	23	0-1		
				2562.5	21375	22.33	23	0-1		
				2507.5	20825	22.20	23	0-1		
		36 RB	18	2535	21100	22.45	23	0-1		
				2562.5	21375	22.31	23	0-1		
				2507.5	20825	22.32	23	0-1		
			37	2535	21100	22.33	23	0-1		
				2562.5	21375	22.23	23	0-1		
				2507.5	20825	22.19	23	0-1		
		75	RB	2535	21100	22.44	23			
15				2562.5	21375	22.22	23	Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0-1 0-1 0-1		
				2507.5	20825	21.86	23			
			0	2535	21100	22.04	23			
				2562.5	21375	22.40	23			
				2507.5	20825	22.27	23	•		
		1 RB	36	2535	21100	22.00	23			
				2562.5	21375	22.22	23			
			7.	2507.5	20825	22.57	23			
			74	2535	21100	22.15	23			
				2562.5	21375	22.45	23			
	16 0 4 4			2507.5	20825	21.19	22			
	16-QAM		0	2535	21100	21.41	22			
				2562.5	21375	21.23	22			
		26 DD	40	2507.5	20825	21.08	22	0 0 0 0 0 0 0-1 0-1 0-1 0-1 0-1 0-1 0-1		
		36 RB	18	2535	21100	21.49	22			
				2562.5	21375	21.33	22			
			27	2507.5	20825	21.42	22	0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1		
			37	2535	21100	21.39	22			
				2562.5	21375	21.26	22			
		75	DD	2507.5	20825	21.18	22			
		/5	RB	2535	21100	21.47	22			
				2562.5	21375	21.27	22	0-2		

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			FDD	Band 7 (Full P	ower)					
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)		
				2505	20800	23.37	24	0		
			0	2535	21100	23.16	24	0		
				2565	21400	23.25	24	0		
				2505	20800	23.04	24	0		
		1 RB	25	2535	21100	23.44	24	0		
				2565	21400	23.15	24	0		
				2505	20800	23.15	24	0		
			49	2535	21100	23.36	24	0		
				2565	21400	23.20	24	0		
				2505	20800	22.15	23	0-1		
	QPSK		0	2535	21100	22.46	23	0-1		
				2565	21400	22.22	23	0-1		
				2505	20800	22.09	23	0-1		
		25 RB	12	2535	21100	22.47	23	0-1		
				2565	21400	22.27		0-1		
				2505	20800	22.12	23	0-1		
			25	2535	21100	22.55	23	0-1		
				2565	21400	22.20	23	0-1		
				2505	20800	22.08	23	0-1		
		50	RB	2535	21100	22.65	23	0-1		
10				2565	21400	22.27	23	0-1		
				2505	20800	22.31	23	0-1		
			0	2535	21100	22.34	23	0-1		
				2565	21400	22.26	23	0-1		
				2505	20800	21.81	23	0-1		
		1 RB	25	2535	21100	21.98	23	0-1		
				2565	21400	22.42				
				2505	20800	21.94				
			49	2535	21100	22.37		ł		
				2565	21400	22.27				
				2505	20800	21.35				
	16-QAM		0	2535	21100	21.48	22	0-2		
				2565	21400	21.36	22	0-2		
				2505	20800	21.17	22	Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0-1 0-1 0-		
		25 RB	12	2535	21100	21.47				
				2565	21400	21.31				
			6-	2505	20800	21.19				
			25	2535	21100	21.38				
				2565	21400	21.23		+		
		==		2505	20800	21.12				
		50	RB	2535	21100	21.42	24 0 24 0 24 0 24 0 23 0-1 23 0-2 22 0-2 22 0-2 22 0-2 22 0-2 22 0-2 22 0-2 </td <td></td>			
						2565	21400	21.36	22	0-2

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FDD Band 7 (Full Power)											
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)			
				2502.5	20775	23.22	24	0			
			0	2535	21100	23.29	24	0			
				2567.5	21425	23.18	24	0			
				2502.5	20775	22.94	24	0			
		1 RB	12	2535	21100	23.31	24	0			
				2567.5	21425	23.15	24	0			
				2502.5	20775	23.04	24	0			
			24	2535	21100	23.67	24	0			
				2567.5	21425	23.08	24	0			
				2502.5	20775	22.25	23	0-1			
	QPSK		0	2535	21100	22.45	23	0-1			
				2567.5	21425	22.19	23	0-1			
				2502.5	20775	22.06	23	0-1			
		12 RB	6	2535	21100	22.42	23	0-1			
				2567.5	21425	22.21	23	0-1			
				2502.5	20775	22.11	23	0-1			
			13	2535	21100	22.46	23	0-1			
				2567.5	21425	22.22	23	0-1			
				2502.5	20775	21.99	23	0-1			
		25	RB	2535	21100	22.49	23	0-1			
5				2567.5	21425	22.20	23	0-1			
				2502.5	20775	21.87	23	0-1			
			0	2535	21100	22.35	23	0-1			
				2567.5	21425	22.25	23	0-1			
				2502.5	20775	22.26	23	0-1			
		1 RB	12	2535	21100	22.16	23	0-1			
				2567.5	21425	21.62	23				
				2502.5	20775	21.81	23				
			24	2535	21100	22.26	23				
				2567.5	21425	22.32	23				
				2502.5	20775	20.95	22				
	16-QAM		0	2535	21100	21.57	22				
				2567.5	21425	21.18	22	0-2			
		40.55		2502.5	20775	21.21	22				
		12 RB	6	2535	21100	21.53	22				
				2567.5	21425	21.22	22				
			40	2502.5	20775	21.16	22				
			13	2535	21100	21.52	22				
				2567.5	21425	21.30	22	0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1			
			DD	2502.5	20775	21.17	22				
	251	KR	2535	21100	21.48	22					
			2567.5	21425	21.24	22	0-2				

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			FDD Ba	nd 7 (Reduced	l Power)			
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
				2510	20850	18.42	18.5	0
			0	2535	21100	18.44	18.5	0
				2560	21350	18.31	18.5	0
				2510	20850	18.38	18.5	0
		1 RB	50	2535	21100	18.41	18.5	0
				2560	21350	18.29	18.5	0
				2510	20850	18.40	18.5	0
			99	2535	21100	18.29	18.5	0
				2560	21350	18.25	18.5	0
				2510	20850	18.36	18.5	0-1
	QPSK		0	2535	21100	18.43	18.5	0-1
				2560	21350	18.31	18.5	0-1
				2510	20850	18.35	18.5	0-1
		50 RB	25	2535	21100	18.23	18.5	0-1
				2560	21350	18.25	18.5	0-1
				2510	20850	18.33	18.5	0-1
			50	2535	21100	18.41	18.5	0-1
				2560	21350	18.28	18.5	0-1
				2510	20850	18.37	18.5	0-1
		100)RB	2535	21100	18.45	18.5	0-1
20				2560	21350	18.40	18.5	0-1
				2510	20850	18.23	18.5	0-1
			0	2535	21100	18.42	18.5	
				2560	21350	18.50	18.5	
				2510	20850	18.26	18.5	
		1 RB	50	2535	21100	18.40	18.5	0-1
				2560	21350	18.42	18.5	0-1
				2510	20850	18.23	18.5	0-1
			99	2535	21100	18.50	18.5	
				2560	21350	18.20	18.5	
			_	2510	20850	18.38	18.5	
	16-QAM		0	2535	21100	18.37	18.5	
				2560	21350	18.29	18.5	0-2
				2510	20850	18.39	18.5	0-2
		50 RB	25	2535	21100	18.36	18.5	
				2560	21350	18.36	18.5	
				2510	20850	18.36	18.5	
			50	2535	21100	18.39	18.5	0 0 0 0 0 0 0 0 0 0 0 0-1 0-1 0-1 0-1 0-
				2560	21350	18.33	18.5	
		100RB		2510	20850	18.34	18.5	
		100	IKB	2535	21100	18.41	18.5	
				2560	21350	18.33	18.5	0-2

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			FDD Ba	nd 7 (Reduced	d Power)						
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)			
				2507.5	20825	18.34	18.5	0			
			0	2535	21100	18.39	18.5	0			
				2562.5	21375	18.30	18.5	0			
				2507.5	20825	18.30	18.5	0			
		1 RB	36	2535	21100	18.39	18.5	0			
				2562.5	21375	18.33	18.5	0			
				2507.5	20825	18.33	18.5	0			
			74	2535	21100	18.42	18.5	0			
				2562.5	21375	18.27	18.5	0			
				2507.5	20825	18.27	18.5	0-1			
	QPSK		0	2535	21100	18.44	18.5	0-1			
				2562.5	21375	18.25	18.5	0-1			
				2507.5	20825	18.28	18.5	0-1			
		36 RB	18	2535	21100	18.38	18.5	0-1			
				2562.5	21375	18.35	18.5	0-1			
				2507.5	20825	18.40	18.5	0-1			
			37	2535	21100	18.31	18.5	0-1			
				2562.5	21375	18.27	18.5	0-1			
				2507.5	20825	18.30	18.5	0-1			
		75	RB	2535	21100	18.39	18.5	0-1			
15				2562.5	21375	18.29	18.5	0-1			
				2507.5	20825	18.28	18.5	0 0 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1			
			0	2535	21100	18.25	18.5				
				2562.5	21375	18.11	18.5				
				2507.5	20825	18.24	18.5				
		1 RB	36	2535	21100	18.20	18.5	+			
				2562.5	21375	18.10	18.5				
				2507.5	20825	18.25	18.5				
			74	2535	21100	18.19	18.5	1			
				2562.5	21375	18.17	18.5				
	40.0444			2507.5	20825	18.34	18.5				
	16-QAM		0	2535	21100	18.37	18.5				
				2562.5	21375	18.21	18.5				
		00.00	40	2507.5	20825	18.29	18.5	Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0-1 0-			
		36 RB	18	2535	21100	18.36	18.5				
				2562.5	21375	18.32	18.5				
			27	2507.5	20825	18.39	18.5				
			37	2535	21100	18.31	18.5				
				2562.5	21375	18.29	18.5				
		7-	DD	2507.5	20825	18.30	18.5				
		/5	RB	2535	21100	18.37	18.5				
							2562.5	21375	18.37	18.5	0-2

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			FDD Ba	nd 7 (Reduced	d Power)						
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)			
				2505	20800	18.43	18.5	0			
			0	2535	21100	18.35	18.5	0			
				2565	21400	18.30	18.5	0			
				2505	20800	18.25	18.5	0			
		1 RB	25	2535	21100	18.42	18.5	0			
				2565	21400	18.30	18.5	0			
				2505	20800	18.33	18.5	0			
			49	2535	21100	18.37	18.5	0			
				2565	21400	18.29	18.5	0			
				2505	20800	18.32	18.5	0-1			
	QPSK		0	2535	21100	18.41	18.5	0-1			
				2565	21400	18.29	18.5	0-1			
				2505	20800	18.31	18.5	0-1			
		25 RB	12	2535	21100	18.40	18.5	0-1			
				2565	21400	18.30	18.5	0-1			
				2505	20800	18.31	18.5	0-1			
			25	2535	21100	18.34	18.5	0-1			
				2565	21400	18.32	18.5	0-1			
				2505	20800	18.33	18.5	0-1			
		50	RB	2535	21100	18.42	18.5	0-1			
10			•	2565	21400	18.33	18.5	0 0 0 0 0 0 0 0 0 0-1 0-1 0-1 0-1 0-1 0-			
			0	2505	20800	18.24	18.5				
			0	2535	21100	18.28	18.5				
				2565	21400	18.30	18.5				
				2505	20800	18.22	18.5				
		1 RB	25	2535	21100	18.40	18.5				
				2565	21400	18.28	18.5				
				2505	20800	18.31	18.5				
			49	2535	21100	18.26	18.5				
				2565	21400	18.22	18.5				
	40.0414		0	2505	20800	18.30	18.5				
	16-QAM		0	2535	21100	18.45	18.5				
				2565	21400	18.43	18.5				
		0E DD	40	2505	20800	18.39	18.5	0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1			
		25 RB	12	2535	21100	18.39	18.5				
				2565	21400	18.33	18.5				
			25	2505	20800	18.42	18.5	0 0 0 0 0 0 0 0 0 0 0 0 0-1 0-1 0-1 0-1			
			25	2535	21100	18.42	18.5				
				2565	21400	18.36	18.5				
		FΛ	DD	2505	20800	18.32	18.5				
		50	RB	2535	21100	18.41	18.5				
			2565	21400	18.30	18.5	0-2				

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			FDD Ba	nd 7 (Reduced	l Power)			
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
				2502.5	20775	18.37	18.5	0
			0	2535	21100	18.33	18.5	0
				2567.5	21425	18.27	18.5	0
				2502.5	20775	18.29	18.5	0
		1 RB	12	2535	21100	18.37	18.5	0
				2567.5	21425	18.23	18.5	0
				2502.5	20775	18.33	18.5	0
			24	2535	21100	18.43	18.5	0
				2567.5	21425	18.30	18.5	0
				2502.5	20775	18.41	18.5	0-1
	QPSK		0	2535	21100	18.46	18.5	0-1
				2567.5	21425	18.34	18.5	0-1
				2502.5	20775	18.26	18.5	0-1
		12 RB	6	2535	21100	18.39	18.5	0-1
				2567.5	21425	18.31	18.5	0-1
				2502.5	20775	18.31	18.5	0-1
			13	2535	21100	18.37	18.5	0-1
				2567.5	21425	18.25	18.5	0-1
				2502.5	20775	18.30	18.5	0-1
		25	RB	2535	21100	18.40	18.5	0-1
5			_	2567.5	21425	18.32	18.5	0-1
Ŭ				2502.5	20775	18.25	18.5	Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0-1 0-1
			0	2535	21100	18.26	18.5	0-1
				2567.5	21425	18.14	18.5	0-1
				2502.5	20775	18.24	18.5	0-1
		1 RB	12	2535	21100	18.33	18.5	0-1
				2567.5	21425	18.22	18.5	0-1
				2502.5	20775	18.30	18.5	
			24	2535	21100	18.22	18.5	
				2567.5	21425	18.14	18.5	
				2502.5	20775	18.39	18.5	
	16-QAM		0	2535	21100	18.43	18.5	
				2567.5	21425	18.31	18.5	
		40 ==	_	2502.5	20775	18.36	18.5	Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0-1 0-1 0-
		12 RB	6	2535	21100	18.37	18.5	
				2567.5	21425	18.34	18.5	
			1	2502.5	20775	18.38	18.5	0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1
			13	2535	21100	18.46	18.5	
				2567.5	21425	18.36	18.5	
			D D	2502.5	20775	18.38	18.5	
	25R	KR	2535	21100	18.50	18.5		
				2567.5	21425	18.27	18.5	0-2

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			FDD E	Band 12 (Full F	Power)					
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)		
				704	23060	22.93	24	0		
			0	707.5	23095	22.96	24	0		
				711	23130	23.05	24	0		
				704	23060	22.95	24	0		
		1 RB	25	707.5	23095	22.96	24	0		
				711	23130	23.16	24	0		
				704	23060	23.31	24	0		
			49	707.5	23095	23.19	24	0		
				711	23130	23.12	24	0		
				704	23060	21.99	23	0-1		
	QPSK		0	707.5	23095	22.03	23	0-1		
				711	23130	22.15	23	0-1		
				704	23060	22.03	23	0-1		
		25 RB	12	707.5	23095	22.04	23	0-1		
				711	23130	22.08	23	-		
				704	23060	22.34	23			
			25	707.5	23095	22.10	23	0-1		
				711	23130	22.18	23			
				704	23060	22.27	23			
		50	RB	707.5	23095	22.10	23			
10			1	711	23130	22.23	23	Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0-1 0-1 0-		
			0	704	23060	22.18	23			
			0	707.5	23095	22.26	23			
				711	23130	22.21	23			
		4 DD	25	704	23060	21.83	23			
		1 RB	25	707.5	23095	22.30	23			
				711	23130	22.29	23			
			40	704	23060	22.12	23			
			49	707.5	23095	22.10	23	+		
				711 704	23130 23060	21.84 20.94	23 22			
	16-QAM		0	704	23095	21.03	22			
	10-QAIVI									
				711 704	23130	21.15	22 22			
		25 RB	12	704	23060 23095	20.99 21.09	22			
		20 ND	14	707.5	23130	21.09	22			
				711	23060	21.12	22			
			25	704	23095	21.02	22	Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0-1 0-1 0-1		
			2.5	707.5	23130	21.12	22			
				711	23060	21.33	22			
		50	RB	707.5	23095	21.08	22			
		30		707.5	23130	21.06	22			
			OOND		/ 11	23130	21.10	22	U-Z	

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			FDD E	Band 12 (Full F	Power)							
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)				
				701.5	23035	22.89	24	0				
			0	707.5	23095	22.95	24	0				
				713.5	23155	23.20	24	0				
				701.5	23035	23.07	24	0				
		1 RB	12	707.5	23095	23.13	24	0				
				713.5	23155	22.96	24	0				
				701.5	23035	23.14	24	0				
			24	707.5	23095	23.04	24	0				
				713.5	23155	23.11	24	0				
				701.5	23035	22.00	23	0-1				
	QPSK		0	707.5	23095	22.04	23	0-1				
				713.5	23155	22.08	23	0-1				
				701.5	23035	22.08	23	0-1				
		12 RB	6	707.5	23095	22.24	23	0-1				
				713.5	23155	22.19	23	0-1				
				701.5	23035	22.09	23	0-1				
			13	707.5	23095	22.13	23	0-1				
				713.5	23155	22.22	23	0-1				
				701.5	23035	22.00	23	0-1				
		25	RB	707.5	23095	21.93	23	0-1				
5				713.5	23155	22.21	23	0-1 0-1 0-1				
				22.20	23	0-1						
			0	707.5	23095	22.36	23	0-1				
				713.5	23155	22.22	23	0-1				
				701.5	23035	21.71	23	0-1				
		1 RB	12	707.5	23095	22.03	23	0-1				
				713.5	23155	21.67	23	0-1				
				701.5	23035	22.47	23	0-1				
			24	707.5	23095	22.02	23	0-1				
				713.5	23155	22.21	23	0-1				
	40.0			701.5	23035	20.94	22	0-2				
	16-QAM		0	707.5	23095	21.13	22	0-2				
				713.5	23155	20.89	22	0-2				
		40.55		701.5	23035	21.09	22	0-2				
		12 RB	6	707.5	23095	21.38	22	0-2				
				713.5	23155	21.07	22	0-2				
			40	701.5	23035	21.14	22	0-2				
			13	707.5	23095	21.28	22	0-2				
				713.5	23155	21.21	22	0-2				
			DD	701.5	23035	20.70	22	0-2				
		25	RB	707.5	23095	21.34	22	0-2				
						713.5	23155	21.14	22	0-2		

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			FDD E	Band 12 (Full F	Power)						
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)			
				700.5	23025	22.96	24	0			
			0	707.5	23095	23.05	24	0			
				714.5	23165	23.18	24	0			
				700.5	23025	23.02	24	0			
		1 RB	7	707.5	23095	23.06	24	0			
				714.5	23165	23.13	24	0			
				700.5	23025	23.05	24	0			
			14	707.5	23095	23.13	24	0			
				714.5	23165	23.20	24	0			
				700.5	23025	22.03	23	0-1			
	QPSK		0	707.5	23095	22.14	23	0-1			
				714.5	23165	22.23	23	0-1			
				700.5	23025	21.96	23	0-1			
		8 RB	4	707.5	23095	22.25	23	0-1			
				714.5	23165	22.17	23	0-1			
				700.5	23025	22.08	23	0-1			
			7	707.5	23095	22.10	23	0-1			
				714.5	23165	22.21	23	0-1			
				700.5	23025	21.96	23	0-1			
		15	RB	707.5	23095	22.19	23	0-1			
3				714.5	23165	22.25	23	0-1			
				700.5	23025	21.94	23	0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1 0-1			
			0	707.5	23095	21.81	23				
				714.5	23165	22.35	23				
			_	700.5	23025	22.13	23	•			
		1 RB	7	707.5	23095	21.94	23				
				714.5	23165	21.90	23				
			4.4	700.5	23025	21.62	23				
			14	707.5	23095	22.24	23	•			
				714.5	23165	22.52	23	0-1			
	40.0414			700.5	23025	21.11	22	0-2			
	16-QAM		0	707.5	23095	21.06	22	0-2			
				714.5	23165	21.20	22	0-2			
		0 DD	A	700.5	23025	20.99	22	0-2			
		8 RB	4	707.5	23095	21.29	22	0-2			
				714.5	23165	21.32	22	0-2			
			7	700.5	23025	21.10	22	0-2			
			7	707.5	23095	21.15	22	0-2			
				714.5	23165	21.34	22	0-2			
		4 5	DD	700.5	23025	20.92	22	0-2			
		15	RB	707.5	23095	20.91	22	0-2			
							714.5	23165	21.18	22	0-2

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			FDD E	Band 12 (Full F	Power)					
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)		
				699.7	23017	22.88	24	0		
			0	707.5	23095	22.83	24	0		
				715.3	23173	23.11	24	0		
				699.7	23017	23.01	24	0		
		1 RB	2	707.5	23095	23.35	24	0		
				715.3	23173	23.16	24	0		
				699.7	23017	23.03	24	0		
			5	707.5	23095	23.09	24	0		
				715.3	23173	23.19	24	0		
				699.7	23017	23.01	24	0		
	QPSK		0	707.5	23095	23.26	24	0		
				715.3	23173	23.23	24	0		
				699.7	23017	23.04	24	0		
		3 RB	2	707.5	23095	23.40	24	0		
				715.3	23173	23.29	24	0		
				699.7	23017	23.02	24	0		
			3	707.5	23095	23.06	24	0		
				715.3	23173	23.17	24	0		
				699.7	23017	22.05	23	0-1		
		6F	RB	707.5	23095	22.16	23	0-1		
1.4				715.3	23173	22.25	23	Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
			_	699.7	23017	21.71	23	0-1		
			0	707.5	23095	22.14	23	0-1		
				715.3	23173	21.67	23	0-1		
				699.7	23017	21.81	23	0-1		
		1 RB	2	707.5	23095	22.27	23			
				715.3	23173	22.32	23			
				699.7	23017	21.71	23			
			5	707.5	23095	21.79	23			
				715.3	23173	21.54	23			
				699.7	23017	22.03	23			
	16-QAM		0	707.5	23095	22.43	23			
				715.3	23173	22.01	23			
		0.55		699.7	23017	22.01	23			
		3 RB	2	707.5	23095	22.13	23	3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
				715.3	23173	22.19	23			
				699.7	23017	22.07	23			
			3	707.5	23095	22.18	23			
				715.3	23173	22.09	23	Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
			D D	699.7	23017	20.95	22			
		6F	RB	707.5	23095	21.01	22			
			0.12		715.3	23173	21.20	22	0-2	

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			FDD Bar	nd 12 (Reduce	d Power)			
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
				704	23060	21.19	21.5	0
			0	707.5	23095	21.25	21.5	0
				711	23130	21.20	21.5	0
				704	23060	21.07	21.5	0
		1 RB	25	707.5	23095	21.18	21.5	0
				711	23130	21.18	21.5	0
				704	23060	21.15	21.5	0
			49	707.5	23095	21.21	21.5	0
				711	23130	21.15	21.5	0
				704	23060	21.17	21.5	0-1
	QPSK		0	707.5	23095	21.23	21.5	0-1
				711	23130	21.21	21.5	0-1
				704	23060	21.09	21.5	0-1
		25 RB	12	707.5	23095	21.20	21.5	0-1
				711	23130	21.15	21.5	_
				704	23060	21.18	21.5	0-1
			25	707.5	23095	21.14	21.5	0-1
				711	23130	21.11	21.5	
				704	23060	21.19	21.5	
		50	RB	707.5	23095	21.31	21.5	
10			1	711	23130	21.30	21.5	
				704	23060	21.07	21.5	
			0	707.5	23095	21.04	21.5	
				711	23130	21.10	21.5	
		4 DD	25	704	23060	20.93	21.5	
		1 RB	25	707.5	23095	21.18	21.5	
				711	23130	21.18	21.5	
			40	704	23060	21.24	21.5	
			49	707.5	23095	21.26	21.5	
				711 704	23130	21.11	21.5	
	16-QAM		0	704	23060 23095	21.12 21.18	21.5 21.5	
	10-QAW		U					
				711 704	23130 23060	21.25 21.16	21.5 21.5	
		25 RB	12	704	23060	21.16	21.5	
		20 ND	14	707.5	23130	21.27	21.5	
				711	23060	21.27	21.5	
			25	704	23095	21.29	21.5	Allowed per 3GPP(dB) 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0-1 0-1 0-
			2.5	707.5	23130	21.25	21.5	
				711	23060	21.33	21.5	
		50	RB	707.5	23095	21.10	21.5	
	501		707.5	23130	21.23	21.5		
				111	20100	21.24	۵.۱۵	U-Z

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	FDD Band 12 (Reduced Power)											
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)				
				701.5	23035	21.07	21.5	0				
			0	707.5	23095	21.11	21.5	0				
				713.5	23155	21.25	21.5	0				
				701.5	23035	21.12	21.5	0				
		1 RB	12	707.5	23095	21.18	21.5	0				
				713.5	23155	21.17	21.5	0				
				701.5	23035	21.15	21.5	0				
			24	707.5	23095	21.26	21.5	0				
				713.5	23155	21.18	21.5	0				
				701.5	23035	21.08	21.5	0-1				
	QPSK		0	707.5	23095	21.17	21.5	0-1				
				713.5	23155	21.23	21.5	0-1				
				701.5	23035	21.11	21.5	0-1				
		12 RB	6	707.5	23095	21.18	21.5	0-1				
				713.5	23155	21.20	21.5	0-1				
				701.5	23035	21.14	21.5	0-1				
			13	707.5	23095	21.26	21.5	0-1				
				713.5	23155	21.34	21.5	0-1				
				701.5	23035	21.06	21.5	0-1				
		25	RB	707.5	23095	21.22	21.5	0-1				
5				713.5	23155	21.22	21.5	0-1				
Ü			0	701.5	23035	20.96	21.5	0-1				
				707.5	23095	21.08	21.5	0-1				
				713.5	23155	21.04	21.5	0-1				
				701.5	23035	21.05	21.5	0-1				
		1 RB	12	707.5	23095	21.11	21.5	0-1				
				713.5	23155	21.23	21.5	0-1				
				701.5	23035	21.13	21.5	0-1				
			24	707.5	23095	21.23	21.5	0-1				
				713.5	23155	21.16	21.5	0-1				
				701.5	23035	21.13	21.5	0-2				
	16-QAM		0	707.5	23095	21.20	21.5	0-2				
				713.5	23155	21.27	21.5	0-2				
				701.5	23035	21.22	21.5	0-2				
		12 RB	6	707.5	23095	21.26	21.5	0-2				
				713.5	23155	21.24	21.5	0-2				
				701.5	23035	21.21	21.5	0-2				
			13	707.5	23095	21.27	21.5	0-2				
				713.5	23155	21.32	21.5	0-2				
		25RB		701.5	23035	21.12	21.5	0-2				
				707.5	23095	21.23	21.5	0-2				
				713.5	23155	21.26	21.5	0-2				

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FDD Band 12 (Reduced Power)											
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)			
				700.5	23025	21.09	21.5	0			
			0	707.5	23095	21.17	21.5	0			
				714.5	23165	21.23	21.5	0			
				700.5	23025	21.09	21.5	0			
		1 RB	7	707.5	23095	21.17	21.5	0			
				714.5	23165	21.27	21.5	0			
				700.5	23025	21.12	21.5	0			
			14	707.5	23095	21.20	21.5	0			
				714.5	23165	21.20	21.5	0			
				700.5	23025	21.10	21.5	0-1			
	QPSK		0	707.5	23095	21.18	21.5	0-1			
				714.5	23165	21.29	21.5	0-1			
				700.5	23025	21.05	21.5	0-1			
		8 RB	4	707.5	23095	21.20	21.5	0-1			
				714.5	23165	21.31	21.5	0-1			
				700.5	23025	21.17	21.5	0-1			
			7	707.5	23095	21.23	21.5	0-1			
				714.5	23165	21.35	21.5	0-1			
				700.5	23025	21.11	21.5	0-1			
		15	RB	707.5	23095	21.21	21.5	0-1			
3				714.5	23165	21.29	21.5	0-1			
				700.5	23025	21.07	21.5	0-1			
			0	707.5	23095	21.17	21.5	0-1			
				714.5	23165	21.18	21.5	0-1			
				700.5	23025	20.97	21.5	0-1			
		1 RB	7	707.5	23095	21.15	21.5	0-1			
				714.5	23165	21.21	21.5	0-1			
				700.5	23025	21.13	21.5	0-1			
			14	707.5	23095	21.08	21.5	0-1			
				714.5	23165	21.15	21.5	0-1			
			_	700.5	23025	21.17	21.5	0-2			
	16-QAM		0	707.5	23095	21.27	21.5	0-2			
				714.5	23165	21.31	21.5	0-2			
				700.5	23025	21.12	21.5	0-2			
		8 RB	4	707.5	23095	21.23	21.5	0-2			
				714.5	23165	21.35	21.5	0-2			
			_	700.5	23025	21.19	21.5	0-2			
			7	707.5	23095	21.25	21.5	0-2			
				714.5	23165	21.35	21.5	0-2			
			DD	700.5	23025	21.11	21.5	0-2			
	15RI		KR	707.5	23095	21.19	21.5	0-2			
				714.5	23165	21.31	21.5	0-2			

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BW(Mhz) Modulation RB Size RB Offset Frequency (MHz) Channel (dem) Conducted power (dBm) Tolerance (dBm)		FDD Band 12 (Reduced Power)											
APSK OPSK	BW(Mhz)	Modulation	RB Size	RB Offset		Channel		Power + Max. Tolerance	Allowed per				
1 RB 2					699.7	23017	21.18	21.5	0				
1 RB 2				0	707.5	23095	21.20	21.5	0				
APSK OPSK OPSK OPSK 1 RB 2 707.5 23095 21.19 21.5 0 699.7 23017 21.09 21.5 0 707.5 23095 21.23 21.5 0 707.5 23095 21.23 21.5 0 715.3 23173 21.24 21.5 0 707.5 23095 21.25 21.5 0 707.5 23095 21.25 21.5 0 707.5 23095 21.25 21.5 0 707.5 23095 21.25 21.5 0 707.5 23095 21.25 21.5 0 707.5 23095 21.25 21.5 0 707.5 23095 21.25 21.5 0 707.5 23095 21.25 21.5 0 707.5 23095 21.25 21.5 0 707.5 23095 21.22 21.5 0 707.5 23095 21.25 21.5 0 707.5 23095 21.25 21.5 0 707.5 23095 21.25 0 707.5 23095 21.25 0 707.5 23095 21.20 21.5 0 699.7 23017 21.15 21.5 0 699.7 23017 21.15 21.5 0 707.5 23095 21.33 21.5 0-1 707.5 23095 21.33 21.5 0-1 707.5 23095 21.33 21.5 0-1 707.5 23095 21.33 21.5 0-1 707.5 23095 21.33 21.5 0-1 707.5 23095 21.19 21.5 0-1 707.5 23095 21.19 21.5 0-1 707.5 23095 21.19 21.5 0-1 707.5 23095 21.19 21.5 0-1 707.5 23095 21.00 21.5 0-1 707.5 23095 21.10 21.5 0-1 707.5 23095 21.10 21.5 0-1 707.5 23095 21.10 21.5 0-1 707.5 23095 21.10 21.5 0-1 707.5 23095 21.10 21.5 0-1 707.5 23095 21.10 21.5 0-1 707.5 23095 21.10 21.5 0-1 707.5 23095 21.10 21.5 0-1 707.5 23095 21.10 21.5 0-1					715.3	23173	21.22	21.5	0				
APSK OPSK					699.7	23017	21.12	21.5	0				
APSK QPSK QPSK 0 707.5 23095 21.23 21.5 0 699.7 23017 21.09 21.5 0 707.5 23095 21.23 21.5 0 699.7 23017 21.14 21.5 0 707.5 23095 21.25 21.5 0 707.5 23095 21.25 21.5 0 707.5 23095 21.25 21.5 0 707.5 23095 21.25 21.5 0 707.5 23095 21.25 21.5 0 707.5 23095 21.25 21.5 0 707.5 23095 21.22 21.5 0 707.5 23095 21.22 21.5 0 707.5 23095 21.22 21.5 0 707.5 23095 21.22 21.5 0 707.5 23095 21.20 21.5 0 707.5 23095 21.20 21.5 0 707.5 23095 21.30 21.5 0 707.5 23095 21.30 21.5 0 707.5 23095 21.30 21.5 0 11.4 APS			1 RB	2	707.5	23095	21.19	21.5	0				
APSK QPSK					715.3	23173	21.29	21.5	0				
APSK QPSK QPSK 0 715.3 23173 21.24 21.5 0 699.7 707.5 23095 21.25 21.5 0 715.3 23173 21.34 21.5 0 699.7 23017 21.15 0 699.7 23017 21.15 0 21.5 0 699.7 23017 21.15 0 21.5 0 699.7 23017 21.15 0 21.5 0 699.7 23017 21.15 0 21.5 0 699.7 23017 21.12 21.5 0 699.7 23017 21.12 21.5 0 707.5 23095 21.20 21.5 0 707.5 23095 21.20 21.5 0 707.5 23095 21.20 21.5 0 707.5 23095 21.20 21.5 0 707.5 23095 21.20 21.5 0 1715.3 23173 21.31 21.5 0-1 707.5 23095 21.33 21.5 0-1 707.5 23095 21.33 21.5 0-1 707.5 23095 21.33 21.5 0-1 707.5 23095 21.33 21.5 0-1 707.5 23095 21.02 21.5 0-1 715.3 23173 21.22 21.5 0-1 715.3 23173 21.25 0-1 715.3 23173 21.25 0-1 715.3 23173 21.25 0-1 715.3 23173 21.15 0-1 699.7 23017 21.10 21.5 0-1 707.5 23095 21.07 21.15 0-1 707.5 23095 21.27 21.5 0-1 707.5 23095 21.27 21.5 0-1 707.5 23095 21.27 21.5 0-1 707.5 23095 21.27 21.5 0-1 707.5 23095 21.27 21.5 0-1 707.5 23095 21.17 21.5 0-1 21.5 0-					699.7	23017	21.09	21.5	0				
APSK O O O O O O O O O O O O O				5	707.5	23095	21.23	21.5	0				
1.4 O					715.3	23173	21.24	21.5	0				
1.4 1.4 The state of the st						23017							
1.4 A RB 2		QPSK		0	707.5	23095	21.25	21.5	0				
1.4 1.4 A RB 2					715.3	23173	21.34	21.5	0				
1.4 1.4 Tiling					699.7	23017		21.5	0				
1.4 1.4			3 RB	2					0				
1.4 1.4 1.4													
1.4 1.4 1.4							1		0				
1.4 1.4				3				21.5					
1.4 1.4 1.4													
1.4 1.4													
1.4 1 RB 1 RB 2			6F	RB									
1 RB 2 707.5 23095 21.19 21.5 0-1 699.7 23017 21.10 21.5 0-1 699.7 23017 21.10 21.5 0-1 715.3 23173 21.22 21.5 0-1 715.3 23173 21.15 21.5 0-1 699.7 23017 21.00 21.5 0-1 699.7 23017 21.00 21.5 0-1 715.3 23173 21.34 21.5 0-1 715.3 23173 21.34 21.5 0-1 699.7 23017 21.00 21.5 0-1 715.3 23173 21.34 21.5 0-1 715.3 23173 21.34 21.5 0-1 715.3 23173 21.22 21.5 0-1 715.3 23173 21.22 21.5 0-1 699.7 23017 21.00 21.5 0-1 715.3 23173 21.22 21.5 0-1 699.7 23017 21.00 21.5 0-1 699.7 23017 21.00 21.5 0-1 715.3 23173 21.30 21.5 0-1 715.3 23173 21.30 21.5 0-1 699.7 23017 21.00 21.5 0-1 715.3 23173 21.30 21.5 0-1 699.7 23017 21.00 21.5 0-2 699.7 23017 21.00 21.5 0-2 699.7 23017 21	1.4			1									
16-QAM 1 RB 2 715.3 23173 21.22 21.5 0-1 699.7 23017 21.10 21.5 0-1 715.3 23173 21.15 21.5 0-1 715.3 23173 21.15 21.5 0-1 699.7 23017 21.00 21.5 0-1 5 707.5 23095 21.07 21.00 21.5 0-1 715.3 23173 21.15 21.5 0-1 715.3 23173 21.12 21.5 0-1 699.7 23017 21.12 21.5 0-1 699.7 23017 21.12 21.5 0-1 715.3 23173 21.12 21.5 0-1 715.3 23173 21.22 21.5 0-1 715.3 23173 21.22 21.5 0-1 715.3 23173 21.22 21.5 0-1 699.7 23017 21.00 21.5 0-1 699.7 23017 21.00 21.5 0-1 715.3 23173 21.30 21.5 0-1 3 707.5 23095 21.16 21.5 0-1 699.7 23017 21.00 21.5 0-1 699.7 23017 21.00 21.5 0-1 699.7 23017 21.00 21.5 0-1 699.7 23017 21.00 21.5 0-1 699.7 23017 21.00 21.5 0-1 699.7 23017 21.00 21.5 0-1 699.7 23017 21.00 21.5 0-1 699.7 23017 21.00 21.5 0-1 699.7 23017 21.00 21.5 0-1				0									
1 RB 2													
1 RB 2 707.5 23095 21.05 21.5 0-1 715.3 23173 21.15 21.5 0-1 699.7 23017 21.00 21.5 0-1 715.3 23173 21.34 21.5 0-1 715.3 23173 21.34 21.5 0-1 699.7 23017 21.02 21.5 0-1 699.7 23017 21.12 21.5 0-1 707.5 23095 21.08 21.5 0-1 715.3 23173 21.22 21.5 0-1 715.3 23173 21.22 21.5 0-1 715.3 23173 21.22 21.5 0-1 715.3 23173 21.20 21.5 0-1 699.7 23017 21.00 21.5 0-1 715.3 23173 21.30 21.5 0-1 715.3 23173 21.30 21.5 0-1 715.3 23173 21.16 21.5 0-1 699.7 23017 21.07 21.5 0-1 699.7 23017 21.07 21.5 0-1 699.7 23017 21.04 21.5 0-1 699.7 23017 21.04 21.5 0-2 609.7 23017 21.04 21.5 0-2													
T15.3			4 DD	2					•				
16-QAM 16-QAM			IRB	2									
16-QAM 16-QAM													
16-QAM 0 715.3 23173 21.34 21.5 0-1 699.7 23017 21.12 21.5 0-1 707.5 23095 21.08 21.5 0-1 715.3 23173 21.22 21.5 0-1 699.7 23017 21.00 21.5 0-1 699.7 23017 21.00 21.5 0-1 715.3 23173 21.20 21.5 0-1 3 RB 2 707.5 23095 21.17 21.5 0-1 715.3 23173 21.30 21.5 0-1 3 707.5 23095 21.16 21.5 0-1 715.3 23173 21.16 21.5 0-1 699.7 23017 21.04 21.5 0-1 699.7 23017 21.04 21.5 0-2 6RB				5			t						
16-QAM 0 699.7 23017 21.12 21.5 0-1 707.5 23095 21.08 21.5 0-1 715.3 23173 21.22 21.5 0-1 699.7 23017 21.00 21.5 0-1 699.7 23017 21.00 21.5 0-1 707.5 23095 21.17 21.5 0-1 715.3 23173 21.30 21.5 0-1 699.7 23017 21.07 21.5 0-1 3 707.5 23095 21.16 21.5 0-1 715.3 23173 21.16 21.5 0-1 699.7 23017 21.04 21.5 0-2 6RB]			1						
16-QAM 16-QAM 0 707.5 23095 21.08 21.5 0-1 715.3 23173 21.22 21.5 0-1 699.7 23017 21.00 21.5 0-1 707.5 23095 21.17 21.5 0-1 715.3 23173 21.30 21.5 0-1 715.3 23173 21.30 21.5 0-1 3 699.7 23017 21.07 21.5 0-1 707.5 23095 21.16 21.5 0-1 715.3 23173 21.16 21.5 0-1 699.7 23017 21.04 21.5 0-2 6RB							†						
3 RB 2 715.3 23173 21.22 21.5 0-1 699.7 23017 21.00 21.5 0-1 707.5 23095 21.17 21.5 0-1 715.3 23173 21.30 21.5 0-1 699.7 23017 21.07 21.5 0-1 3 707.5 23095 21.16 21.5 0-1 715.3 23173 21.16 21.5 0-1 699.7 23017 21.04 21.5 0-2 6RB 707.5 23095 21.13 21.5 0-2		16-OAM		0			.						
3 RB 2 707.5 23095 21.17 21.5 0-1 715.3 23173 21.30 21.5 0-1 699.7 23017 21.07 21.5 0-1 715.3 23173 21.30 21.5 0-1 715.3 23173 21.16 21.5 0-1 715.3 23173 21.16 21.5 0-1 699.7 23017 21.04 21.5 0-2 6RB 707.5 23095 21.13 21.5 0-2		10 SAW											
3 RB 2 707.5 23095 21.17 21.5 0-1 715.3 23173 21.30 21.5 0-1 699.7 23017 21.07 21.5 0-1 3 707.5 23095 21.16 21.5 0-1 715.3 23173 21.16 21.5 0-1 699.7 23017 21.04 21.5 0-2 6RB 707.5 23095 21.13 21.5 0-2							1						
715.3 23173 21.30 21.5 0-1 699.7 23017 21.07 21.5 0-1 707.5 23095 21.16 21.5 0-1 715.3 23173 21.16 21.5 0-1 699.7 23017 21.04 21.5 0-2 6RB 707.5 23095 21.13 21.5 0-2			3 RB	2									
3 699.7 23017 21.07 21.5 0-1 707.5 23095 21.16 21.5 0-1 715.3 23173 21.16 21.5 0-1 699.7 23017 21.04 21.5 0-2 6RB 707.5 23095 21.13 21.5 0-2			0.00										
3 707.5 23095 21.16 21.5 0-1 715.3 23173 21.16 21.5 0-1 699.7 23017 21.04 21.5 0-2 6RB 707.5 23095 21.13 21.5 0-2													
715.3 23173 21.16 21.5 0-1 699.7 23017 21.04 21.5 0-2 6RB 707.5 23095 21.13 21.5 0-2				3					•				
699.7 23017 21.04 21.5 0-2 6RB 707.5 23095 21.13 21.5 0-2													
6RB 707.5 23095 21.13 21.5 0-2													
			6RB										
			UND		715.3	23173	21.26	21.5	0-2				

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	FDD Band 13 (Full Power)											
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)				
			0	782	23230	23.19	24	0				
		1 RB	25	782	23230	23.31	24	0				
			49	782	23230	23.26	24	0				
	QPSK	25 RB	0	782	23230	23.00	23	0-1				
			12	782	23230	22.08	23	0-1				
			25	782	23230	22.10	23	0-1				
10		50RB		782	23230	22.22	23	0-1				
10			0	782	23230	22.16	23	0-1				
		1 RB	25	782	23230	22.23	23	0-1				
			49	782	23230	22.28	23	0-1				
	16-QAM		0	782	23230	21.17	22	0-2				
		25 RB	12	782	23230	21.18	22	0-2				
			25	782	23230	21.21	22	0-2				
			RB	782	23230	21.21	22	0-2				

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	FDD Band 13 (Full Power)											
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)				
				779.5	23205	22.87	24	0				
			0	782	23230	22.97	24	0				
				784.5	23255	23.23	24	0				
				779.5	23205	22.94	24	0				
		1 RB	12	782	23230	23.19	24	0				
				784.5	23255	22.96	24	0				
				779.5	23205	23.05	24	0				
			24	782	23230	23.10	24	0				
				784.5	23255	23.55	24	0				
				779.5	23205	22.06	23	0-1				
	QPSK		0	782	23230	22.20	23	0-1				
				784.5	23255	22.16	23	0-1				
				779.5	23205	22.33	23	0-1				
		12 RB	6	782	23230	22.12	23	0-1				
				784.5	23255	22.15	23	0-1				
				779.5	23205	22.18	23	0-1				
			13	782	23230	22.15	23	0-1				
				784.5	23255	22.16	23	0-1				
				779.5	23205	22.24	23	0-1				
		25	RB	782	23230	22.13	23	0-1				
5				784.5	23255	22.11	23	0-1				
				779.5	23205	22.22	23	0-1				
			0	782	23230	22.03	23	0-1				
				784.5	23255	22.26	23	0-1				
				779.5	23205	22.08	23	0-1				
		1 RB	12	782	23230	21.65	23	0-1				
				784.5	23255	21.84	23	0-1				
				779.5	23205	22.16	23	0-1				
			24	782	23230	22.30	23	0-1				
				784.5	23255	21.89	23	0-1				
				779.5	23205	21.15	22	0-2				
	16-QAM		0	782	23230	21.20	22	0-2				
				784.5	23255	21.18	22	0-2				
				779.5	23205	21.45	22	0-2				
		12 RB	6	782	23230	21.29	22	0-2				
				784.5	23255	21.19	22	0-2				
				779.5	23205	21.24	22	0-2				
			13	782	23230	21.15	22	0-2				
				784.5	23255	21.00	22	0-2				
		25RB		779.5	23205	20.77	22	0-2				
				782	23230	21.22	22	0-2				
				784.5	23255	21.16	22	0-2				

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			FDD Bar	nd 13 (Reduce	d Power)			
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
			0	782	23230	19.75	20	0
		1 RB	25	782	23230	19.86	20	0
			49	782	23230	19.67	20	0
	QPSK	25 RB	0	782	23230	19.79	20	0-1
			12	782	23230	19.81	20	0-1
			25	782	23230	19.77	20	0-1
10		50RB		782	23230	19.80	20	0-1
10			0	782	23230	19.72	20	0-1
		1 RB	25	782	23230	19.65	20	0-1
			49	782	23230	19.94	20	0-1
	16-QAM		0	782	23230	19.88	20	0-2
		25 RB	12	782	23230	19.80	20	0-2
			25	782	23230	19.81	20	0-2
		50	RB	782	23230	19.80	20	0-2

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FDD Band 13 (Reduced Power)											
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)			
				779.5	23205	19.73	20	0			
			0	782	23230	19.78	20	0			
				784.5	23255	19.72	20	0			
				779.5	23205	19.75	20	0			
		1 RB	12	782	23230	19.77	20	0			
				784.5	23255	19.70	20	0			
				779.5	23205	19.72	20	0			
			24	782	23230	19.76	20	0			
				784.5	23255	19.69	20	0			
				779.5	23205	19.69	20	0-1			
	QPSK		0	782	23230	19.78	20	0-1			
				784.5	23255	19.73	20	0-1			
				779.5	23205	19.80	20	0-1			
		12 RB	6	782	23230	19.77	20	0-1			
				784.5	23255	19.75	20	0-1			
				779.5	23205	19.78	20	0-1			
			13	782	23230	19.79	20	0-1			
				784.5	23255	19.74	20	0-1			
				779.5	23205	19.82	20	0-1			
		25	RB	782	23230	19.78	20	0-1			
5				784.5	23255	19.76	20	0-1			
3				779.5	23205	19.77	20	0-1			
			0	782	23230	19.58	20	0-1			
				784.5	23255	19.73	20	0-1			
				779.5	23205	19.70	20	0-1			
		1 RB	12	782	23230	19.77	20	0-1			
				784.5	23255	19.58	20	0-1			
				779.5	23205	19.74	20	0-1			
			24	782	23230	19.75	20	0-1			
				784.5	23255	19.75	20	0-1			
				779.5	23205	19.75	20	0-2			
	16-QAM		0	782	23230	19.79	20	0-2			
				784.5	23255	19.82	20	0-2			
				779.5	23205	19.85	20	0-2			
		12 RB	6	782	23230	19.80	20	0-2			
				784.5	23255	19.82	20	0-2			
				779.5	23205	19.81	20	0-2			
			13	782	23230	19.74	20	0-2			
				784.5	23255	19.81	20	0-2			
			779.5	23205	19.85	20	0-2				
		25RB		782	23230	19.77	20	0-2			
				784.5	23255	19.77	20	0-2			

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FDD Band 17 (Full Power)											
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)			
				709	23780	22.76	24	0			
			0	710	23790	22.68	24	0			
				711	23800	23.07	24	0			
				709	23780	23.17	24	0			
		1 RB	25	710	23790	23.20	24	0			
				711	23800	23.00	24	0			
				709	23780	23.17	24	0			
			49	710	23790	23.06	24	0			
				711	23800	23.08	24	0			
				709	23780	21.71	23	0-1			
	QPSK		0	710	23790	22.08	23	0-1			
				711	23800	22.12	23	0-1			
				709	23780	22.14	23	0-1			
		25 RB	12	710	23790	22.14	23	0-1			
				711	23800	21.94	23	0-1			
				709	23780	22.04	23	0-1			
			25	710	23790	22.10	23	0-1			
				711	23800	22.14	23	0-1			
				709	23780	22.11	23	0-1			
		50	RB	710	23790	22.15	23	0-1			
10			1	711	23800	22.19	23	0-1			
			0	709	23780	21.62	23	0-1			
				710	23790	21.83	23	0-1			
				711	23800	22.05	23	0-1			
		4 DD	25	709	23780	22.00	23	0-1			
		1 RB	25	710	23790	21.98	23	0-1			
				711	23800	21.75	23	0-1			
			49	709	23780	22.40 21.62	23 23	0-1			
			49	710 711	23790			0-1			
				711	23800 23780	22.03 20.72	23 22	0-1 0-2			
	16-QAM		0	709	23790	21.13	22	0-2			
	10-QAIVI		J	710	23800	21.13	22	0-2			
				711	23780	21.13	22	0-2			
		25 RB	12	709	23780	21.13	22	0-2			
		20110	'-	710	23800	20.97	22	0-2			
				709	23780	21.10	22	0-2			
			25	710	23790	21.10	22	0-2			
				710	23800	20.96	22	0-2			
	50RE			709	23780	21.04	22	0-2			
		RB	710	23790	21.05	22	0-2				
			=	711	23800	21.05	22	0-2			
					_0000	00		V 2			

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	FDD Band 17 (Full Power)											
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)				
				706.5	23755	22.84	24	0				
			0	710	23790	23.14	24	0				
				713.5	23825	23.04	24	0				
				706.5	23755	23.02	24	0				
		1 RB	12	710	23790	23.10	24	0				
				713.5	23825	22.85	24	0				
				706.5	23755	23.14	24	0				
			24	710	23790	23.15	24	0				
				713.5	23825	23.07	24	0				
				706.5	23755	22.04	23	0-1				
	QPSK		0	710	23790	22.12	23	0-1				
				713.5	23825	22.14	23	0-1				
				706.5	23755	22.07	23	0-1				
		12 RB	6	710	23790	22.08	23	0-1				
				713.5	23825	22.13	23	0-1				
				706.5	23755	21.86	23	0-1				
			13	710	23790	22.06	23	0-1				
				713.5	23825	22.06	23	0-1				
				706.5	23755	22.07	23	0-1				
		25	RB	710	23790	22.11	23	0-1				
5				713.5	23825	22.06	23	0-1				
			0	706.5	23755	22.22	23	0-1				
				710	23790	22.10	23	0-1				
				713.5	23825	21.55	23	0-1				
				706.5	23755	21.87	23	0-1				
		1 RB	12	710	23790	21.70	23	0-1				
				713.5	23825	22.17	23	0-1				
			6.4	706.5	23755	22.23	23	0-1				
			24	710	23790	22.23	23	0-1				
				713.5	23825	21.94	23	0-1				
	16 0 4 14		_	706.5	23755	21.02	22	0-2				
	16-QAM		0	710 712.5	23790	21.06	22	0-2				
				713.5	23825	21.20	22	0-2				
		12 RB	6	706.5	23755	21.20	22	0-2				
		IZ KD	0	710 712.5	23790	21.13	22	0-2				
				713.5 706.5	23825 23755	21.19 20.99	22 22	0-2 0-2				
			13	706.5	23755	20.99	22	0-2 0-2				
			13	710	23790	21.04	22	0-2				
				713.5	23755	21.06	22	0-2				
		2501		710	23790	21.13	22	0-2				
		25RB		713.5	23825	21.12	22	0-2				
				1 13.5	23023	∠۱.۱۶	22	U-Z				

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	FDD Band 17 (Reduced Power)											
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)				
				709	23780	21.29	21.5	0				
			0	710	23790	21.36	21.5	0				
				711	23800	21.19	21.5	0				
				709	23780	21.28	21.5	0				
		1 RB	25	710	23790	21.25	21.5	0				
				711	23800	21.16	21.5	0				
				709	23780	21.27	21.5	0				
			49	710	23790	21.31	21.5	0				
				711	23800	21.14	21.5	0				
				709	23780	21.25	21.5	0-1				
	QPSK		0	710	23790	21.38	21.5	0-1				
				711	23800	21.32	21.5	0-1				
				709	23780	21.21	21.5	0-1				
		25 RB	12	710	23790	21.29	21.5	0-1				
				711	23800	21.27	21.5	0-1				
				709	23780	21.24	21.5	0-1				
			25	710	23790	21.34	21.5	0-1				
				711	23800	21.28	21.5	0-1				
				709	23780	21.27	21.5	0-1				
		50	RB	710	23790	21.38	21.5	0-1				
10				711	23800	21.34	21.5	0-1				
			0	709	23780	21.34	21.5	0-1				
				710	23790	21.07	21.5	0-1				
				711	23800	21.10	21.5	0-1				
				709	23780	21.22	21.5	0-1				
		1 RB	25	710	23790	21.28	21.5	0-1				
				711	23800	21.14	21.5	0-1				
			,.	709	23780	21.28	21.5	0-1				
			49	710	23790	21.17	21.5	0-1				
				711	23800	21.26	21.5	0-1				
	40.0			709	23780	21.41	21.5	0-2				
	16-QAM		0	710	23790	21.37	21.5	0-2				
				711	23800	21.37	21.5	0-2				
		05.55	4.5	709	23780	21.38	21.5	0-2				
		25 RB	12	710	23790	21.36	21.5	0-2				
				711	23800	21.40	21.5	0-2				
			0.5	709	23780	21.30	21.5	0-2				
			25	710	23790	21.34	21.5	0-2				
				711	23800	21.29	21.5	0-2				
			DD	709	23780	21.27	21.5	0-2				
		50RB		710	23790	21.29	21.5	0-2				
				711	23800	21.35	21.5	0-2				

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FDD Band 17 (Reduced Power)											
BW(Mhz)	Modulation	RB Size	RB Offset	Frequency (MHz)	Channel	Conducted power (dBm)	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)			
				706.5	23755	21.29	21.5	0			
			0	710	23790	21.36	21.5	0			
				713.5	23825	21.19	21.5	0			
				706.5	23755	21.28	21.5	0			
		1 RB	12	710	23790	21.25	21.5	0			
				713.5	23825	21.16	21.5	0			
				706.5	23755	21.27	21.5	0			
			24	710	23790	21.31	21.5	0			
				713.5	23825	21.14	21.5	0			
				706.5	23755	21.25	21.5	0-1			
	QPSK		0	710	23790	21.38	21.5	0-1			
				713.5	23825	21.32	21.5	0-1			
				706.5	23755	21.21	21.5	0-1			
		12 RB	6	710	23790	21.29	21.5	0-1			
				713.5	23825	21.27	21.5	0-1			
				706.5	23755	21.24	21.5	0-1			
			13	710	23790	21.34	21.5	0-1			
				713.5	23825	21.28	21.5	0-1			
				706.5	23755	21.27	21.5	0-1			
		25	RB	710	23790	21.38	21.5	0-1			
5				713.5	23825	21.34	21.5	0-1			
				706.5	23755	21.13	21.5	0-1			
			0	710	23790	21.15	21.5	0-1			
				713.5	23825	21.16	21.5	0-1			
		4.00	40	706.5	23755	20.86	21.5	0-1			
		1 RB	12	710	23790	21.26	21.5	0-1			
				713.5	23825	21.26	21.5	0-1			
			24	706.5	23755	21.29	21.5	0-1			
			24	710	23790	21.23	21.5	0-1			
				713.5	23825	21.30	21.5	0-1 0-2			
	16-QAM		0	706.5	23755	21.27	21.5	0-2			
	10-QAIVI		U	710 712 F	23790	21.35	21.5				
				713.5	23825	21.36	21.5	0-2			
		12 RB	6	706.5 710	23755 23790	21.31 21.34	21.5 21.5	0-2 0-2			
		IZ ND	"	713.5	23790	21.34	21.5	0-2			
				713.5	23755	21.35	21.5	0-2			
			13	706.5	23790	21.24					
			13	710	23790	21.37	21.5 21.5	0-2 0-2			
			<u> </u>	713.5	23755	21.33	21.5	0-2			
		2500		710	23790	21.36	21.5	0-2			
		25R		713.5	23825	21.45	21.5	0-2			
				1 10.0	20020	Z 1.40	21.0	U-Z			

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CDMA conducted power table (Full power):

			Target			1xRTT		EV	'DO
Band	Channel	nnel Frequency (MHz)	' ' \/ 2\/	SO55	SO55	TDSO/SO32	TDSO/SO32	1x EvDO Rev. 0, FTAP/RTAP	1x EvDO Rev. A, FETAP/RETAP
				RC1	RC3	FCH+SCH	FCH	Subtype 0/1	Subtype 2
0.11.1	1013	824.7	25.00	23.71	23.67	23.69	23.70	23.72	23.61
Cellular (BC0)	384	836.52	25.00	23.87	23.85	23.82	23.81	23.89	23.68
(500)	777	848.31	25.00	23.84	23.82	23.80	23.84	23.87	23.64
DOO	25	1851.25	25.00	24.15	24.18	24.16	24.15	24.17	24.14
PCS (BC1)	600	1880	25.00	24.25	24.21	24.22	24.24	24.19	24.16
(501)	1175	1908.75	25.00	24.22	24.19	24.19	24.20	24.21	24.14

CDMA conducted power table (Reduced power):

Band	Channel	Frequency (MHz)	wax.	1xRTT				EVDO	
				SO55	SO55	TDSO/SO32	TDSO/SO32	1x EvDO Rev. 0, FTAP/RTAP	1x EvDO Rev. A, FETAP/RETAP
			Toleranc e (dBm)	RC1	RC3	FCH+SCH	FCH	Subtype 0/1	Subtype 2
CDMA (BC0)	1013	824.7	19.00	18.41	18.40	18.39	18.40	18.42	18.40
	384	836.52	19.00	18.94	18.93	18.92	18.92	18.94	18.91
	777	848.31	19.00	18.93	18.91	18.91	18.90	18.91	18.87
CDMA (BC1)	25	1851.25	19.00	18.83	18.81	18.80	18.81	18.82	18.81
	600	1880	19.00	18.82	18.80	18.81	18.82	18.83	18.82
	1175	1908.75	19.00	18.98	18.96	18.98	18.97	19.00	18.98

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1.4 Test Environment

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

1.5 Operation Description

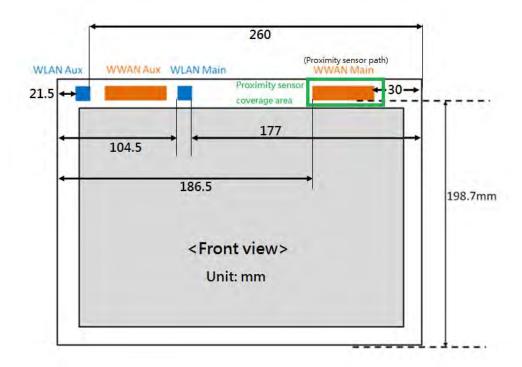
1. WWAN:

SAR is measured in the following configurations:

Configuration 1: back/top side_0mm with power reduction

Configuration 2: back/top side_10mm without power reduction

Configuration 3: right/left sides_0mm without power reduction



Antenna location

(The p-sensor is colocated with WWAN antenna)

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2. WLAN

For WLAN, since the RF hardware/software of FCC ID: B94HNI06CAM is the same with that of FCC ID: PD98265D2, so the WLAN is refer to the WLAN SAR report of FCC ID: PD98265D2 after verifying the worst cases of the WLAN SAR report.

Note:

- The EUT is controlled by using a Radio Communication Tester (Anritsu MT8820C), and the communication between the EUT and the tester is established by air link.
- 2. Measurements are performed respectively on the lowest, middle and highest channels of the operating band(s). The EUT is set to maximum power level during all tests, and at the beginning of each test the battery is fully charged.
- 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.
- SAR test reduction for GPRS and EDGE modes is determined by the source-based time-averaged output power. The data mode with highest specified time-averaged output power should be tested for SAR compliance. The GMSK EDGE configurations are grouped with GPRS and considered with respect to time-averaged maximum output power to determine compliance. The 3G SAR test reduction procedure is applied to 8-PSK EDGE with GMSK GPRS/EDGE as the primary mode. Since the maximum output power in a secondary mode (8-PSK EDGE) is ≤ ¼ dB higher than the primary mode (GMSK GPRS/EDGE), SAR measurement is not required for the secondary mode (8-PSK EDGE).
- 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 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).
- Body SAR is measured using Subtype 0/1 Physical Layer configurations for Rev. 0. The 3G SAR test reduction procedure is applied to Rev. A, Subtype 2 Physical layer configuration, with Rev. 0 as the primary mode since the maximum output power in a secondary mode is ≤ ¼ dB higher than the primary mode. For Ev-Do

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data devices that also support 1x RTT voice and/or data operations, the 3G SAR test reduction procedure is applied to 1x RTT RC3 and RC1 with Ev-Do Rev. 0, Rev. A and Rev. B as the respective primary modes.

- LTE modes test according to KDB 941225D05v02r05.
 - a. Per Section 5.2.1, the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation.
 - Using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
 - When the reported SAR is ≤ 0.8 W/kg, testing of the remaining RB offset configurations and required test channels is not required for 1 RB allocation; otherwise, SAR is required for the remaining required test channels and only for the RB offset configuration with the highest output power for that channel.
 - When the reported SAR of a required test channel is > 1.45 W/kg, SAR is required for all three RB offset configurations for that required test channel.
 b. Per Section 5.2.2, the largest channel bandwidth and measure SAR for QPSK with 50% RB allocation
 - The procedures required for 1 RB allocation in 5.2.1 are applied to measure the SAR for QPSK with 50% RB allocation.
 - c. Per Section 5.2.3, the largest channel bandwidth and measure SAR for QPSK with 100% RB allocation
 - For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation in 5.2.1 and 5.2.2 are ≤ 0.8 W/kg.
 - Otherwise, SAR is measured for the highest output power channel and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
 - d. Per Section 5.2.4, Higher order modulations
 - For each modulation besides QPSK; e.g., 16-QAM, 64-QAM, apply the QPSK procedures in sections 5.2.1, 5.2.2 and 5.2.3 to determine the QAM configurations that may need SAR measurement. For each configuration identified as required for testing, SAR is required only when the highest maximum output power for the configuration in the higher order modulation is > ½ dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is > 1.45 W/kg.
 - e. Per Section 5.3, other channel bandwidth standalone SAR test requirements
 - For the other channel bandwidths used by the device in a frequency band, apply all the procedures required for the largest channel bandwidth in section 5.2 to determine the channels and RB configurations that need SAR testing and only measure SAR when the highest maximum output power of a configuration requiring testing in the smaller channel bandwidth is > ½ dB higher than the equivalent channel configurations in the largest channel bandwidth configuration

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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.

- According to KDB447498D01v06, testing of other required channels is not required when the reported 1-g SAR for the highest output channel is ≤ 0.8 W/kg, when the transmission band is \leq 100 MHz.
- According to KDB865664D01v01r04, SAR measurement variability must be assessed for each frequency band. When the original highest measured SAR is ≥ 0.8 W/kg, repeated that measurement once. Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is \geq 1.45 W/kg (\sim 10% from the 1-g SAR limit)

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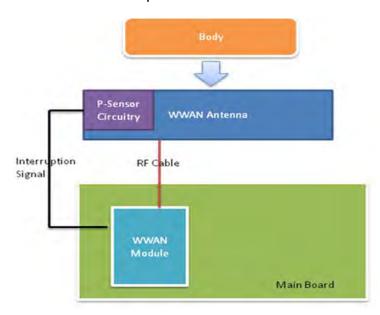
t (886-2) 2299-3279 f (886-2) 2298-0488



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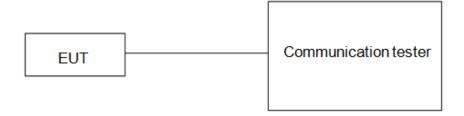
1.6 Proximity sensor operation description

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



1.6.1 Proximity sensor measurement procedure

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



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1.6.2 Trigger distances for back/top side

Test procedure:

- 1. The entire back surface or edge of the tablet is positioned below a flat phantom filled with the required tissue equivalent medium and positioned at least 20 mm further than the distance that triggers power reduction.
- The back surface or edge is moved toward the phantom in 3 mm steps until the sensor triggers.
- The back surface or edge is then moved back (further away) from the phantom until maximum output power is returned to the normal maximum level.
- 4. The back surface or edge is again moved toward the phantom, but in 1 mm steps, until it is at least 5 mm past the triggering point or touching the phantom
- If the tablet is not touching the phantom, it is moved in 3 mm steps until it touches the phantom to confirm that the sensor remains triggered and the maximum power stays reduced.
- 6. The process is then reversed by moving the tablet away from the phantom to determine triggering release, until it is at least 10 mm beyond the point that triggers the return of normal maximum power.
- 7. The measured output power within ± 5 mm of the triggering points, or until the tablet is touching the phantom, for movements to and from the phantom should be tabulated.
- 8. To ensure all production units are compliant, it is generally necessary to reduce the triggering distance determined from the triggering tests by 1 mm, or more if it is necessary, and use the smallest distance for movements to and from the phantom, minus 1 mm, as the sensor triggering distance for determining the SAR measurement distance.
- 9. For back side, the trigger distance of proximity sensor is 11mm.
- 10. For top side, the trigger distance of proximity sensor is 12mm, and we perform the 1.6.3 tilt angle testing in next step.

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1.6.3 Tilt angle testing

Test procedure:

- 1. The influence of table tilt angles to proximity sensor triggering is determined by positioning each tablet edge that contains a transmitting antenna, perpendicular to the flat phantom, at the smallest sensor triggering test distance determined in sections 1.6.2 by rotating the tablet around the edge next to the phantom in ≤ 10 deg increments until the tablet is +/- 45deg or more from the vertical position at 0 deg.
- If sensor triggering is released and normal maximum output power is restored within the +/- 45deg range, the procedures in step 1) should be repeated by reducing the tablet to phantom separation distance by 1 mm until the proximity sensor no longer releases triggering, and maximum output power remains in the reduced mode.
- 3. The smallest separation distance determined in steps 1) and 2), minus 1 mm, is the sensor triggering distance for tablet tilt coverage. The smallest separation distance determined in sections 1.6.2, 1.6.3 minus 1 mm should be used in the SAR measurements.
- The influence of tablet tilt angles to proximity sensor triggering is determined by positioning top and right sides, please refer to table 1.6.5 and 1.6.6.
- 5. After the tilt angle testing for top side, the sensor is not released during +/- 45deg, so 12-1=11mm, is the sensor triggering distance for tablet tilt coverage. The smallest separation distance minus 1 mm(11-1=10mm) should be used in the SAR measurements.

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1.6.4 Proximity sensor coverage

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

Test procedure:

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

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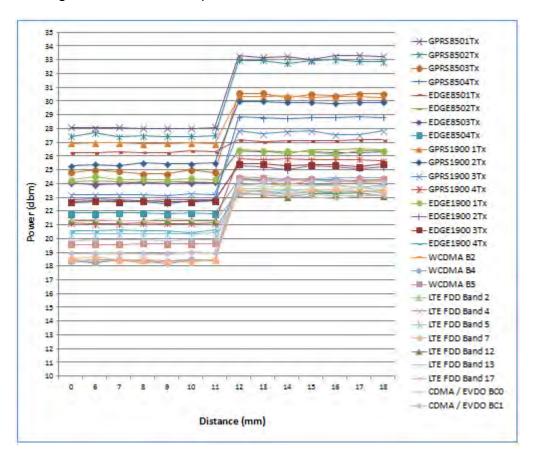
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1.6.5 Results

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

Back side

Moving device toward the phantom



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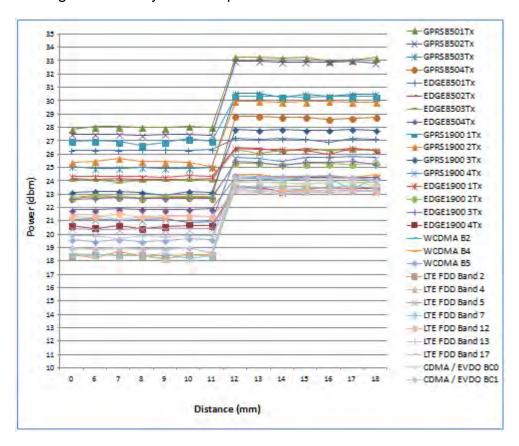
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Moving device away from the phantom



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

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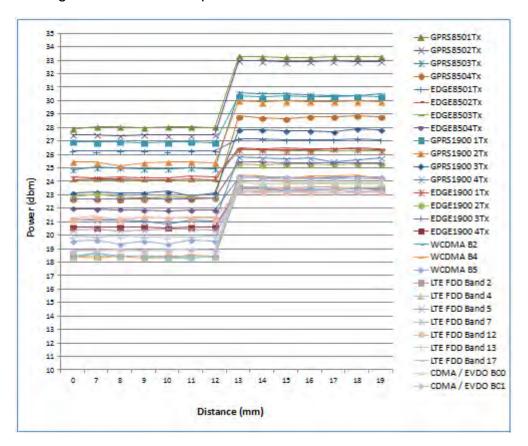
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Top side

Moving device toward the phantom



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Moving device away from the phantom

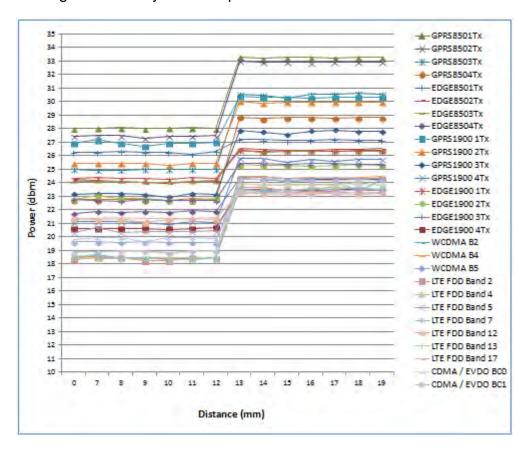


Table 1.6.5 Tilt angle test results for top side

	ensor	-50	-45	-40	-30	-20	-10	0	10	20	30	40	45	50
	OFF	deg												
121	mm	ON												

During the tilt angle testing for top side, the sensor is not released in 12mm, so 12-1=11mm, is the sensor triggering distance for tablet tilt coverage. The smallest separation distance minus 1 mm(11-1=10mm) should be used in the SAR measurements for top side.

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Note:

- 1. The triggering variations and hysteresis effect has been evaluated separately according to the tissue-equivalent medium required for each frequency band, and sensor triggering does not change with different tissue-equivalent media.
- 2. The default power level for sensor failure and malfunctioning, including all compliance concerns, has been addressed in the client's operation description (1.6.6) for the proximity sensor implementation to be acceptable.
- 3. Conducted power is monitored qualitatively to identify the general triggering characteristics and recorded quantitatively, versus spacing.

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1.6.6 Operation description for P-sensor

Power Reduction Design Specification (for P-sensor)

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

Table1-1: The power reduction scenario table

Band	Power Reduction
GPRS850	YES
EDGE850	YES
GPRS1900	YES
EDGE1900	YES
WCDMA B2	YES
WCDMA B4	YES
WCDMA B5	YES
CDMA BC0	YES
CDMA BC1	YES
LTE B2/4/5/7/12/13/17	YES
WLAN	NO
ВТ	NO

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

Technology / Band	Mode	Default Maximum Power (dBm)	
	Class 8	28.5	
GPRS 850	Class 10	27.5	
GFK3 650	Class 11	25	
	Class 12	23	
	Class 8	26.5	
EDGE 850	Class 10	24.5	
EDGE 650	Class 11	24.5	
	Class 12	22	
	Class 8	27	
GPRS 1900	Class 10	25.5	
GFKS 1900	Class 11	23.5	
	Class 12	21.5	
	Class 8	24.5	
EDGE 1900	Class 10	23	
EDGE 1900	Class 11	23	
	Class 12	21	

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Technology / Band	Mode	Default Maximum Power (dBm)
	RMC 12.2K data	18.5
	HSDPA case 1	17.5
	HSDPA case 2	17.5
	HSDPA case 3	17.5
LIMITO DO	HSDPA case 4	17.5
UMTS B2	HSUPA case 1	17.5
	HSUPA case 2	17.5
	HSUPA case 3	17.5
	HSUPA case 4	17.5
	HSUPA case 5	17.5
	RMC 12.2K data	18.5
	HSDPA case 1	17.5
	HSDPA case 2	17.5
	HSDPA case 3	17.5
LIMTO DA	HSDPA case 4	17.5
UMTS B4	HSUPA case 1	17.5
	HSUPA case 2	17.5
	HSUPA case 3	17.5
	HSUPA case 4	17.5
	HSUPA case 5	17.5

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Technology / Band	Mode	Default Maximum Power (dBm)
	RMC 12.2K data	20
	HSDPA case 1	19
	HSDPA case 2	19
	HSDPA case 3	19
	HSDPA case 4	19
UMTS B5	HSUPA case 1	19
	HSUPA case 2	19
	HSUPA case 3	19
	HSUPA case 4	19
	HSUPA case 5	19

Technology / Band	Mode	Default Maximum Power (dBm)
CDMA BC0	All	19
CDMA BC1	All	19
LTE B2	All	18.5
LTE B4	All	18.5
LTE B5	All	20.5
LTE B7	All	18.5
LTE B12	All	21.5
LTE B13	All	20
LTE B17	All	21.5

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1.7 The SAR Measurement System

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

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

- 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.

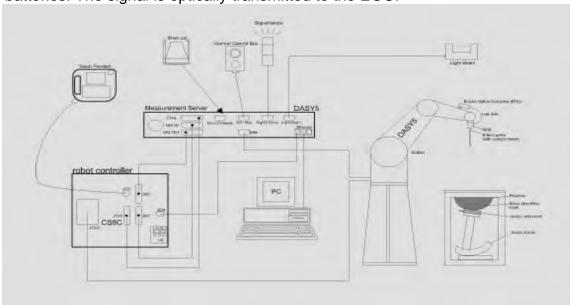


Fig. a The block diagram of SAR system

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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. The SAM twin phantom enabling testing left-hand and right-hand usage.
- 11. The device holder for handheld mobile phones.
- 12. Tissue simulating liquid mixed according to the given recipes.
- 13. Validation dipole kits allowing to validate the proper functioning of the system.

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1.8 System Components

EX3DV4 E-Field Probe

Construction	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)				
Calibration	Basic Broad Band Calibration in air Conversion Factors (CF) for HSL 750/835/1750/1900/2450/2600/5300 MHz Additional CF for other liquids and frequencies upon request				
Frequency	10 MHz to > 6 GHz				
Directivity	± 0.3 dB in HSL (rotation around probe axis) ± 0.5 dB in tissue material (rotation normal to probe axis)				
Dynamic	$10 \mu\text{W/g to} > 100 \text{mW/g}$				
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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SAM PHANTOM V4 OC

SAM PHANT	JIVI V4.UC					
Construction	The shell corresponds to the specifications of the Specific Anthropomorphic Mannequin (SAM) phantom defined in IEEE 1528 and IEC 62209. It enables the dosimetric evaluation of left and right hand phone usage as well as body mounted usage at the flat phantom region. A cover prevents evaporation of the liquid. Reference markings on the phantom allow the complete setup of all predefined phantom positions and measurement grids by manually teaching three points with the robot.					
Shell Thickness	2 ± 0.2 mm					
Filling Volume Dimensions	Approx. 25 liters Height: 850 mm; Length: 1000 mm; Width: 500 mm					

DEVICE HOLDER

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

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1.9 SAR System Verification

The microwave circuit arrangement for system verification is sketched in Fig. b. The daily system accuracy verification occurs within the flat section of the SAM phantom. A SAR measurement was performed to see if the measured SAR was within +/- 10% from the target SAR values. These tests were done at 750/835/1750/1900/2450/2600/5300/5600/5800MHz. The tests were conducted on the same days as the measurement of the DUT. The obtained results from the system accuracy verification are displayed in the table 1 (SAR values are normalized to 1W forward power delivered to the dipole). During the tests, the ambient temperature of the laboratory was 21.7°C, the relative humidity was 62% and the liquid depth above the ear reference points was \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.

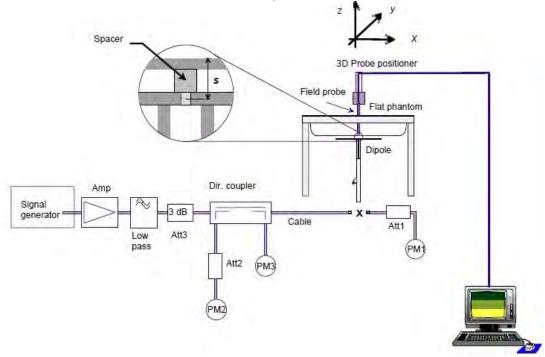


Fig. b The block diagram of system verification

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Validation Kit	S/N	Frequency (MHz)		1W Target SAR-1g (mW/g)	Measured SAR-1g (mW/g)	Measured SAR-1g normalized to 1W	Deviatio n (%)	Measured Date
D750V3	1015	750	Body	8.77	2.15	8.6	-1.94%	Sep. 29, 2016
D835V2	4d063	835	Body	9.57	2.36	9.44	-1.36%	Sep. 30, 2016
D1750V2	1008	1750	Body	37.3	9.19	36.76	-1.45%	Sep. 27, 2016
D1900V2	5d027	1900	Body	39.7	10.2	40.8	2.77%	Sep. 26, 2016
D2450V2	727	2450	Body	49.6	12.9	51.6	4.03%	Nov. 02, 2016
D2600V2	1005	2600	Body	53.9	13.5	54	0.19%	Sep. 28, 2016
		5300	Body	75.1	7.75	77.5	3.20%	Nov. 02, 2016
D5GHzV2	1023	5600	Body	78.3	7.95	79.5	1.53%	Nov. 02, 2016
		5800	Body	75.3	7.33	73.3	-2.66%	Nov. 02, 2016

Table 1. Results of system validation

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1.10 Tissue Simulant Fluid for the Frequency Band

The dielectric properties for this body-simulant fluid were measured by using the Agilent Model 85070E Dielectric Probe (rates frequency band 200 MHz to 20 GHz) in conjunction with Network Analyzer (30 KHz-6000 MHz).

All dielectric parameters of tissue simulates were measured within 24 hours of SAR measurements. The depth of the tissue simulant in the flat section of the phantom was \geq 15 cm \pm 5 mm (Frequency \leq 3G) or \geq 10 cm \pm 5 mm (Frequency

>3G) during all tests. (Fig. 2)

	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
		704	55.710	0.960	57.791	0.930	-3.73%	3.10%
		707.5	55.697	0.960	57.732	0.932	-3.65%	2.92%
		709	55.691	0.960	57.727	0.933	-3.66%	2.83%
	Sep,29 2015	710	55.687	0.960	57.719	0.932	-3.65%	2.94%
		711	55.683	0.960	57.719	0.932	-3.66%	2.95%
		750	55.531	0.963	57.380	0.974	-3.33%	-1.10%
		782	55.406	0.966	57.094	1.004	-3.05%	-3.95%
		824.2	55.242	0.969	57.524	0.988	-4.13%	-1.94%
	Sep,30 2016	824.7	55.240	0.969	57.716	0.991	-4.48%	-2.25%
		826.4	55.234	0.969	57.557	0.992	-4.21%	-2.34%
		829	55.223	0.970	57.452	0.993	-4.04%	-2.42%
		835	55.200	0.970	57.447	1.000	-4.07%	-3.09%
Body		836.5	55.195	0.972	57.388	1.000	-3.97%	-2.90%
Body		836.52	55.195	0.972	57.377	1.001	-3.95%	-3.00%
		836.6	55.195	0.972	57.376	1.001	-3.95%	-2.99%
		844	55.172	0.981	57.372	1.004	-3.99%	-2.34%
		846.6	55.164	0.984	57.305	1.010	-3.88%	-2.61%
		848.31	55.159	0.986	57.301	1.012	-3.88%	-2.60%
		848.8	55.158	0.987	57.256	1.013	-3.80%	-2.64%
		1712.4	53.531	1.465	53.682	1.399	-0.28%	4.48%
		1720	53.511	1.469	53.661	1.412	-0.28%	3.91%
		1732.4	53.478	1.477	53.608	1.417	-0.24%	4.08%
	Sep,27 2016	1732.5	53.478	1.477	53.607	1.417	-0.24%	4.09%
		1745	53.445	1.485	53.605	1.432	-0.30%	3.59%
		1750	53.432	1.488	53.582	1.436	-0.28%	3.52%
		1752.6	53.425	1.490	53.561	1.437	-0.26%	3.56%

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Tissue Type	Measurement Date	Measured Frequency (MHz)	Target Dielectric Constant, εr	Target Conductivity, σ (S/m)	Measured Dielectric Constant, Er	Measured Conductivity, σ (S/m)	% dev εr	% dev σ
		1850.2	53.300	1.520	53.289	1.537	0.02%	-1.12%
		1851.25	53.300	1.520	53.278	1.537	0.04%	-1.12%
		1852.4	53.300	1.520	53.261	1.539	0.07%	-1.25%
		1860	53.300	1.520	53.253	1.549	0.09%	-1.91%
	Sep,26 2016	1880	53.300	1.520	53.226	1.565	0.14%	-2.96%
		1900	53.300	1.520	53.208	1.586	0.17%	-4.34%
		1907.6	53.300	1.520	53.163	1.593	0.26%	-4.80%
		1908.75	53.300	1.520	53.135	1.594	0.31%	-4.87%
		1909.8	53.300	1.520	53.104	1.595	0.37%	-4.93%
	Sep,28 2016	2510	52.624	2.035	52.007	2.121	1.17%	-4.22%
		2535	52.592	2.071	52.011	2.121	1.10%	-2.44%
Body		2560	52.560	2.106	51.847	2.188	1.36%	-3.89%
Body		2600	52.509	2.163	51.713	2.238	1.52%	-3.48%
		2437	52.717	1.938	50.950	2.012	3.35%	-3.84%
		2441	52.712	1.941	50.940	2.021	3.36%	-4.10%
		2450	52.700	1.950	50.922	2.030	3.37%	-4.10%
		2462	52.685	1.967	50.876	2.049	3.43%	-4.17%
		5280	48.906	5.393	48.311	5.451	1.22%	-1.08%
	Nov. 2, 2016	5300	48.879	5.416	48.284	5.475	1.22%	-1.09%
		5580	48.499	5.743	47.787	5.801	1.47%	-1.01%
		5600	48.471	5.766	47.793	5.824	1.40%	-1.00%
		5620	48.444	5.790	47.674	5.856	1.59%	-1.14%
		5800	48.200	6.000	47.113	6.148	2.26%	-2.47%
		5825	48.166	6.029	47.057	6.183	2.30%	-2.55%

Table 2. Dielectric Parameters of Tissue Simulant Fluid

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The composition of the body tissue simulating liquid:

The composition of the body accure annualing inquiti-										
				Ingre	dient			Tatal		
Frequency (MHz)	Mode	DGMBE	Water	Salt	Preventol D-7	Cellulose	Sugar	Total amount		
750	Body	_	631.68 g	11.72 g	1.2 g	-	600 g	1.0L(Kg)		
850	Body	_	631.68 g	11.72 g	1.2 g	1	600 g	1.0L(Kg)		
1750	Body	300.67 g	716.56 g	4.0 g	-	1	l	1.0L(Kg)		
1900	Body	300.67 g	716.56 g	4.0 g	-	1	I	1.0L(Kg)		
2450	Body	301.7ml	698.3ml	_	_	_	-	1.0L(Kg)		
2600	Body	301.7ml	698.3ml	_	_	_	1	1.0L(Kg)		

Simulating Liquids for 5 GHz, Manufactured by SPEAG:

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

Table 3. Recipes for Tissue Simulating Liquid

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1.11 Evaluation Procedures

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

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

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

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

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

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

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

1.12 Probe Calibration Procedures

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

1.12.1 Transfer Calibration with Temperature Probes

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

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

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

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

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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 $\pm 10\%$ (RSS) [2]. Recently, a setup which is a combination of the waveguide techniques and the thermal measurements was presented in [3]. The estimated uncertainty of the setup is $\pm 5\%$ (RSS) when the same liquid is used for the calibration and for actual measurements and ± 7 -9% (RSS) when not, which is in good agreement with the estimates given in [2].

1.12.2 Calibration with Analytical Fields

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

- 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.

References

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1.13 Test Standards and Limits

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

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

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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

GPRS 850 MHz (without power reduction)

Mode	Position	Distanc e (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Avg. Power	Scaling	Averaged 1 (W/ Measured	g kg)	Plot page
	Back side	10	128	824.2	33	32.95	1.16%	1.110	1.123	-
	Back side	10	190	836.6	33	32.96	0.93%	1.120	1.130	-
	Back side	10	251	848.8	33	32.90	2.33%	0.982	1.005	-
GPRS 850	Top side	10	128	824.2	33	32.95	1.16%	0.933	0.944	-
(1Dn2UP)	Top side	10	190	836.6	33	32.96	0.93%	0.923	0.932	-
	Top side	10	251	848.8	33	32.90	2.33%	1.220	1.248	-
-	Right side	0	190	836.6	33	32.96	0.93%	0.182	0.184	-
	Left side	0	190	836.6	33	32.96	0.93%	0.113	0.114	-

GPRS 850 MHz (with power reduction)

Mode	Position	Distanc e (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Avg. Power	Scaling	Averaged 1 (W/	g	Plot page
		(111111)			reletation (dBitt)	(dBm)		Measured	Reported	
	Back side	0	128	824.2	27.5	27.42	1.86%	1.200	1.222	-
0000000	Back side	0	190	836.6	27.5	27.49	0.23%	1.160	1.163	-
GPRS 850 (1Dn2UP)	Back side	0	251	848.8	27.5	27.47	0.69%	1.240	1.249	299
(1011201)	Back side*	0	251	848.8	27.5	27.47	0.69%	1.210	1.218	-
	Top side	0	190	836.6	27.5	27.49	0.23%	0.608	0.609	-

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

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GPRS 1900 MHz (without power reduction)

Mode	Position	Distanc e (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Avg. Power	Scaling	Averaged 1 (W/ Measured	g ˈkg)	Plot page
	Back side	10	512	1850.2	30	29.97	0.69%	0.747	0.752	-
GPRS 1900	Top side	10	512	1850.2	30	29.97	0.69%	0.406	0.409	-
(1Dn2UP)	Right side	0	512	1850.2	30	29.97	0.69%	0.390	0.393	-
	Left side	0	512	1850.2	30	29.97	0.69%	0.156	0.157	-

GPRS 1900 MHz (with power reduction)

Mode	Position	Distanc e (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Power	Scaling	Averaged 1 (W/	g	Plot page
		(11111)			1 0.01a.100 (a.z)	(dBm)		Measured	Reported	
	Back side	0	512	1850.2	25.5	25.47	0.69%	1.080	1.087	-
0000 4000	Back side	0	661	1880	25.5	25.41	2.09%	1.060	1.082	-
GPRS 1900 (1Dn2UP)	Back side	0	810	1909.8	25.5	25.44	1.39%	1.120	1.136	300
(1011201)	Back side*	0	810	1909.8	25.5	25.44	1.39%	1.080	1.095	•
	Top side	0	512	1850.2	25.5	25.47	0.69%	0.649	0.653	•

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

WCDMA Band II (without power reduction)

Mode	Position	Distanc e (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	AVg. Power	Scaling	Averaged 1 (W/ Measured	g ˈkg)	Plot page
	Back side	10	9538	1907.6	24.5	24.24	6.17%	0.465	0.494	-
WCDMA	Top side	10	9538	1907.6	24.5	24.24	6.17%	0.277	0.294	-
Band II	Right side	0	9538	1907.6	24.5	24.24	6.17%	0.175	0.186	-
	Left side	0	9538	1907.6	24.5	24.24	6.17%	0.145	0.154	-

WCDMA Band II (with power reduction)

Mode	Position	Distanc e (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Power	Scaling	Averaged 1 (W/	g	Plot page
		(11111)				(dBm)		Measured	Reported	
	Back side	0	9262	1852.4	18.5	18.05	10.92%	0.978	1.085	-
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Back side	0	9400	1880	18.5	18.22	6.66%	0.943	1.006	-
WCDMA Band II	Back side	0	9538	1907.6	18.5	18.48	0.46%	1.020	1.025	301
Dand II	Back side*	0	9538	1907.6	18.5	18.48	0.46%	0.998	1.003	-
	Top side	0	9538	1907.6	18.5	18.48	0.46%	0.574	0.577	-

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

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WCDMA Band IV (without power reduction)

Mode Position	Position	Distanc e (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Avg. Power	Scaling	(۷۷/	g kg)	Plot page
						(ubiii)		Measured	Reported	
	Back side	10	1412	1732.6	24.5	24.46	0.93%	0.632	0.638	-
WCDMA	Top side	10	1412	1732.6	24.5	24.46	0.93%	0.416	0.420	-
Band IV	Right side	0	1412	1732.6	24.5	24.46	0.93%	0.382	0.386	-
	Left side	0	1412	1732.6	24.5	24.46	0.93%	0.084	0.085	-

WCDMA Band IV (with power reduction)

Mode	Position	Distanc e (mm)	СН	(MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Avg. Power	Scaling	Averaged 1 (W/ Measured	g kg)	Plot page
	Back side	0	1312	1712.4	18.5	18.27	5.44%	1.120	1.181	-
	Back side	0	1412	1732.4	18.5	18.49	0.23%	1.220	1.223	302
WCDMA Band IV	Back side*	0	1412	1732.4	18.5	18.49	0.23%	1.190	1.193	-
Band IV	Back side	0	1513	1752.6	18.5	18.45	1.16%	1.150	1.163	-
	Top side	0	1412	1732.4	18.5	18.49	0.23%	0.612	0.613	-

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

WCDMA Band V (without power reduction)

Mode	Position	Distanc e (mm)	СН	(MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Avg. Power	Scaling	Averaged 1 (W/	g	Plot page
		` ,			` '	(dBm)		Measured	Reported	
	Back side	10	4233	846.6	24.5	24.37	3.04%	0.444	0.457	-
WCDMA	Top side	10	4233	846.6	24.5	24.37	3.04%	0.378	0.389	-
Band V	Right side	0	4233	846.6	24.5	24.37	3.04%	0.137	0.141	-
	Left side	0	4233	846.6	24.5	24.37	3.04%	0.054	0.056	-

WCDMA Band V (with power reduction)

Mode	Position	Distanc e (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power	Scaling	Averaged SAR over 1g (W/kg)		Plot page
		(111111)			Tolcrance (dbin)	(dBm)		Measured	Reported	
	Back side	0	4132	826.4	20	19.38	15.35%	1.010	1.165	-
14400144	Back side	0	4183	836.6	20	19.5	12.20%	1.050	1.178	-
WCDMA Band V	Back side	0	4233	846.6	20	19.65	8.39%	1.070	1.160	303
Bana v	Back side*	0	4233	846.6	20	19.65	8.39%	1.030	1.116	-
	Top side	0	4233	846.6	20	19.65	8.39%	0.615	0.667	-

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

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LTE FDD Band II (without power reduction)

Mode Bandw dth (MHz)	Danielo d	Modulation	RB Size	RB start	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Toleranc e (dBm)	Measure d Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		
												Measured	Reported	Plot page
LTE Band 2 20MHz		QPSK	1 RB	0	Back side	10	18700	1860	24	23.62	9.14%	0.527	0.575	-
					Top side	10	18700	1860	24	23.62	9.14%	0.280	0.306	-
					Right side	0	18700	1860	24	23.62	9.14%	0.238	0.260	-
					Left side	0	18700	1860	24	23.62	9.14%	0.104	0.114	-
				RB 50	Back side	10	18900	1880	23	22.55	10.92%	0.372	0.413	-
	201411-				Top side	10	18900	1880	23	22.55	10.92%	0.202	0.224	-
	ZUIVITZ				Right side	0	18900	1880	23	22.55	10.92%	0.201	0.223	-
					Left side	0	18900	1880	23	22.55	10.92%	0.098	0.109	-
			100		Back side	10	18900	1880	23	22.54	11.17%	0.378	0.420	-
				100 RB	Top side	10	18900	1880	23	22.54	11.17%	0.207	0.230	-
					Right side	0	18900	1880	23	22.54	11.17%	0.180	0.200	-
				Left side	0	18900	1880	23	22.54	11.17%	0.085	0.094	-	

LTE FDD Band II (with power reduction)

Mode	Bandwi dth (MHz)	Modulatior	RB Size	RB start	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Toleranc e (dBm)	Power	Scaling	Averaged SAR over 1g (W/kg)		
												Measured	Reported	Plot page
LTE Band 2 20MHz	20MHz	QPSK	1 RB	0	Back side	0	18700	1860	18.5	18.43	1.62%	0.977	0.993	-
					Back side	0	18900	1880	18.5	18.49	0.23%	0.962	0.964	-
					Back side	0	19100	1900	18.5	18.45	1.16%	1.010	1.022	-
					Top side	0	18900	1880	18.5	18.49	0.23%	0.542	0.543	-
			50 RB	50	Back side	0	18700	1860	18.5	18.34	3.75%	0.993	1.030	-
					Back side	0	18900	1880	18.5	18.43	1.62%	0.967	0.983	-
					Back side	0	19100	1900	18.5	18.42	1.86%	1.000	1.019	-
					Top side	0	18900	1880	18.5	18.43	1.62%	0.551	0.560	-
					Back side	0	18700	1860	18.5	18.27	5.44%	0.988	1.042	-
					Back side	0	18900	1880	18.5	18.40	2.33%	0.971	0.994	-
			100 F	RB	Back side	0	19100	1900	18.5	18.37	3.04%	1.020	1.051	304
					Back side*	0	19100	1900	18.5	18.37	3.04%	0.989	1.019	-
				Top side	0	18900	1880	18.5	18.40	2.33%	0.566	0.579	-	

⁻ repeated at the highest SAR measurement according to the KDB 865664 D01

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LTE FDD Band IV (without power reduction)

	Dandui								Max. Rated	Measure		Averaged 1g (W		
Mode	Bandwi dth (MHz)	Modulatior	RB Size	RB start	Position	Distance (mm)	СН	Freq. (MHz)	Avg. Power + Max. Toleranc e (dBm)	d Avg. Power (dBm)	Scaling	Measured	Reported	Plot page
				Back side	10	20300	1745	24	23.93	1.62%	0.638	0.648	-	
			1 RB	99	Top side	10	20300	1745	24	23.93	1.62%	0.382	0.388	-
			IKB	99	Right side	0	20300	1745	24	23.93	1.62%	0.286	0.291	-
					Left side	0	20300	1745	24	23.93	1.62%	0.123	0.125	-
					Back side	10	20300	1745	23	23.00	0.00%	0.492	0.492	-
LTE	20MHz	QPSK	50 RB	50	Top side	10	20300	1745	23	23.00	0.00%	0.325	0.325	-
Band 4	ZUIVITZ	QFSK	30 KB	30	Right side	0	20300	1745	23	23.00	0.00%	0.244	0.244	-
	Ballu 4				Left side	0	20300	1745	23	23.00	0.00%	0.095	0.095	-
					Back side	10	20050	1720	23	22.89	2.57%	0.524	0.537	-
			100	DD	Top side	10	20050	1720	23	22.89	2.57%	0.313	0.321	-
			100	ND	Right side	0	20050	1720	23	22.89	2.57%	0.253	0.259	-
					Left side	0	20050	1720	23	22.89	2.57%	0.088	0.090	-

LTE FDD Band IV (with power reduction)

	Bandwi								Max. Rated	Measure		Averaged 1g (V		
Mode	dth (MHz)	Modulatior	RB Size	RB start	Position	Distance (mm)	СН	Freq. (MHz)	Avg. Power + Max. Toleranc e (dBm)	Power	Scaling	Measured	Reported	Plot page
					Back side	0	20050	1720	18.5	18.38	2.80%	1.160	1.192	-
			1 RB	0	Back side	0	20175	1732.5	18.5	18.48	0.46%	1.180	1.185	-
			IND	0	Back side	0	20300	1745	18.5	18.42	1.86%	1.170	1.192	-
					Top side	0	20175	1732.5	18.5	18.48	0.46%	0.631	0.634	-
					Back side	0	20050	1720	18.5	18.42	1.86%	1.190	1.212	-
LTE					Back side	0	20175	1732.5	18.5	18.47	0.69%	1.210	1.218	305
Band 4	20MHz	QPSK	50 RB	0	Back side*	0	20175	1732.5	18.5	18.47	0.69%	1.190	1.198	-
Danu 4					Back side	0	20300	1745	18.5	18.46	0.93%	1.190	1.201	-
					Top side	0	20175	1732.5	18.5	18.47	0.69%	0.634	0.638	-
					Back side	0	20050	1720	18.5	18.44	1.39%	1.160	1.176	-
			100	100 RB	Back side	0	20175	1732.5	18.5	18.47	0.69%	1.180	1.188	-
			100	00 RB	Back side	0	20300	1745	18.5	18.41	2.09%	1.200	1.225	-
					Top side	0	20175	1732.5	18.5	18.47	0.69%	0.635	0.639	-

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

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LTE FDD Band V (without power reduction)

	Dandui									Measure		Averaged 1g (V		
Mode	Bandwi dth (MHz)	Modulatior	RB Size	RB start	Position	Distance (mm)	СН	Freq. (MHz)	Avg. Power + Max. Toleranc e (dBm)	d Avg. Power (dBm)	Scaling	Measured	Reported	Plot page
				Back side	10	20525	836.5	24	23.46	13.24%	0.384	0.435	-	
			1 RB	0	Top side	10	20525	836.5	24	23.46	13.24%	0.306	0.347	-
			IKB	0	Right side	0	20525	836.5	24	23.46	13.24%	0.065	0.074	-
					Left side	0	20525	836.5	24	23.46	13.24%	0.040	0.045	-
					Back side	10	20600	844	23	22.30	17.49%	0.340	0.399	-
LTE	10MHz	QPSK	25 RB	12	Top side	10	20600	844	23	22.30	17.49%	0.276	0.324	-
Band 5	TOWINZ	QFSK	23 KB	12	Right side	0	20600	844	23	22.30	17.49%	0.046	0.054	-
	Band 5				Left side	0	20600	844	23	22.30	17.49%	0.005	0.006	-
					Back side	10	20525	836.5	23	22.35	16.14%	0.314	0.365	-
			50 F	DD.	Top side	10	20525	836.5	23	22.35	16.14%	0.282	0.328	-
			30 F	\D	Right side	0	20525	836.5	23	22.35	16.14%	0.085	0.099	-
1					Left side	0	20525	836.5	23	22.35	16.14%	0.040	0.046	-

LTE FDD Band V (with power reduction)

	Bandwi								Max. Rated Avg.	Measure d		Averaged 1g (V		
Mode		Modulatior	RB Size	RB start	Position	Distance (mm)	СН	Freq. (MHz)	Power + Max. Toleranc e (dBm)	Avg. Power (dBm)	Scaling	Measured	Reported	Plot page
					Back side	0	20450	829	20.5	20.39	2.57%	1.120	1.149	-
			1 RB	0	Back side	0	20525	836.5	20.5	20.45	1.16%	1.170	1.184	-
		LVD	ľ	Back side	0	20600	844	20.5	20.42	1.86%	1.190	1.212	-	
				Top side	0	20525	836.5	20.5	20.45	1.16%	0.595	0.602	-	
					Back side	0	20450	829	20.5	20.27	5.44%	1.140	1.202	-
LTE					Back side	0	20525	836.5	20.5	20.39	2.57%	1.200	1.231	306
Band 5	10MHz	QPSK	25 RB	0	Back side*	0	20525	836.5	20.5	20.39	2.57%	1.180	1.210	-
Dana 3					Back side	0	20600	844	20.5	20.31	4.47%	1.190	1.243	-
				Top side	0	20525	836.5	20.5	20.39	2.57%	0.650	0.667	-	
				Back side	0	20450	829	20.5	20.14	8.64%	1.120	1.217	-	
		50 F	D D	Back side	0	20525	836.5	20.5	20.32	4.23%	1.180	1.230	-	
		30 1	\D	Back side	0	20600	844	20.5	20.26	5.68%	1.190	1.258	-	
					Top side	0	20525	836.5	20.5	20.32	4.23%	0.581	0.606	-

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

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LTE FDD Band VII (without power reduction)

	Dondui								Max. Rated	Measure		Averaged 1g (W		
Mode	Bandwi dth (MHz)	Modulatior	RB Size	RB start	Position	Distance (mm)	СН	Freq. (MHz)	Avg. Power + Max. Toleranc e (dBm)	d Avg. Power (dBm)	Scaling	Measured	Reported	Plot page
					Back side	10	21100	2535	24	23.52	11.69%	0.521	0.582	-
			1 RB	50	Top side	10	21100	2535	24	23.52	11.69%	0.858	0.958	-
			IKB	30	Right side	0	21100	2535	24	23.52	11.69%	0.606	0.677	-
					Left side	0	21100	2535	24	23.52	11.69%	0.038	0.042	-
					Back side	10	20850	2510	23	23.00	0.00%	0.357	0.357	-
LTE	20MHz	QPSK	50 RB	0	Top side	10	20850	2510	23	23.00	0.00%	0.424	0.424	-
Band 7	ZUIVII IZ	QFSK	30 KB	0	Right side	0	20850	2510	23	23.00	0.00%	0.519	0.519	-
	sanu /				Left side	0	20850	2510	23	23.00	0.00%	0.038	0.038	-
					Back side	10	21100	2535	23	22.48	12.72%	0.474	0.534	-
			100	PR	Top side	10	21100	2535	23	22.48	12.72%	0.646	0.728	-
			100	ND	Right side	0	21100	2535	23	22.48	12.72%	0.478	0.539	-
					Left side	0	21100	2535	23	22.48	12.72%	0.027	0.030	-

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

LTE FDD Band VII (with power reduction)

	Bandwi								Max. Rated	Measure d		Averaged 1g (V		
Mode		Modulatior	RB Size	RB start	Position	Distance (mm)	CH	Freq. (MHz)	Avg. Power + Max. Toleranc e (dBm)	Avg. Power	Scaling	Measured	Reported	Plot page
					Back side	0	20850	2510	18.5	18.42	1.86%	1.090	1.110	-
			1 RB	0	Back side	0	21100	2535	18.5	18.44	1.39%	1.090	1.105	-
		IND	0	Back side	0	21350	2560	18.5	18.31	4.47%	1.110	1.160	-	
					Top side	0	21100	2535	18.5	18.44	1.39%	0.542	0.550	-
					Back side	0	20850	2510	18.5	18.36	3.28%	1.120	1.157	307
LTE					Back side	0	21100	2535	18.5	18.43	1.62%	1.110	1.128	-
Band 7	20MHz	QPSK	50 RB	0	Back side	0	21350	2560	18.5	18.31	4.47%	1.060	1.107	-
Dana 1					Back side*	0	20850	2510	18.5	18.36	3.28%	1.100	1.136	-
					Top side	0	21100	2535	18.5	18.43	1.62%	0.553	0.562	-
					Back side	0	20850	2510	18.5	18.37	3.04%	1.110	1.144	-
			100	PR	Back side	0	21100	2535	18.5	18.45	1.16%	1.110	1.123	-
			100	ND	Back side	0	21350	2560	18.5	18.40	2.33%	1.060	1.085	-
					Top side	0	21100	2535	18.5	18.45	1.16%	0.556	0.562	-

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

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LTE FDD Band XII (without power reduction)

	Dondui								Max. Rated	Measure		Averaged 1g (V		
Mode	Bandwi dth (MHz)	Modulatior	RB Size	RB start	Position	Distance (mm)	СН	Freq. (MHz)	Avg. Power + Max. Toleranc e (dBm)	d Avg. Power (dBm)	Scaling	Measured	Reported	Plot page
					Back side	10	23060	704	24	23.31	17.22%	0.438	0.513	-
		1 RB	49	Top side	10	23060	704	24	23.31	17.22%	0.277	0.325	-	
			IND	43	Right side	0	23060	704	24	23.31	17.22%	0.185	0.217	-
				Left side	0	23060	704	24	23.31	17.22%	0.014	0.016	-	
LTE					Back side	10	23060	704	23	22.34	16.41%	0.331	0.385	-
Band	10MHz	QPSK	25 RB	25	Top side	10	23060	704	23	22.34	16.41%	0.154	0.179	-
	TOWNIZ	QFSIX	23 KD	23	Right side	0	23060	704	23	22.34	16.41%	0.157	0.183	-
'-	12			Left side	0	23060	704	23	22.34	16.41%	0.004	0.005	-	
					Back side	10	23060	704	23	22.27	18.30%	0.347	0.411	-
			50 F	PR	Top side	10	23060	704	23	22.27	18.30%	0.207	0.245	-
			30 1	' D	Right side	0	23060	704	23	22.27	18.30%	0.208	0.246	-
				Left side	0	23060	704	23	22.27	18.30%	0.004	0.005	-	

LTE FDD Band XII (with power reduction)

	Bandwi								Max. Rated Avg.	Measure d		Averaged 1g (W		
Mode		Modulatior	RB Size	RB start	Position	Distance (mm)	СН	Freq. (MHz)	Power + Max. Toleranc e (dBm)	Avg. Power	Scaling	Measured	Reported	Plot page
					Back side	0	23060	704	21.5	21.19	7.40%	1.060	1.138	-
		1 RB	0	Back side	0	23095	707.5	21.5	21.25	5.93%	1.100	1.165	-	
		TIND		Back side	0	23130	711	21.5	21.20	7.15%	1.070	1.147	-	
				Top side	0	23095	707.5	21.5	21.25	5.93%	0.618	0.655	-	
					Back side	0	23060	704	21.5	21.17	7.89%	1.050	1.133	-
LTE			25 RB	0	Back side	0	23095	707.5	21.5	21.23	6.41%	1.070	1.139	-
Band	10MHz	QPSK	20 110	"	Back side	0	23130	711	21.5	21.21	6.91%	1.130	1.208	-
12					Top side	0	23095	707.5	21.5	21.23	6.41%	0.642	0.683	-
				Back side	0	23060	704	21.5	21.19	7.40%	1.070	1.149	-	
					Back side	0	23095	707.5	21.5	21.31	4.47%	1.090	1.139	-
		50 F	RB	Back side	0	23130	711	21.5	21.30	4.71%	1.140	1.194	308	
				Back side*	0	23130	711	21.5	21.30	4.71%	1.100	1.152	-	
					Top side	0	23095	707.5	21.5	21.31	4.47%	0.657	0.686	-

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

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LTE FDD Band XIII (without power reduction)

	Bandwi									Measure d		Averaged 1g (W		
Mode		Modulatior	RB Size	RB start	Position	Distance (mm)	СН	Freq. (MHz)	Avg. Power + Max. Toleranc e (dBm)	Avg. Power	Scaling	Measured	Reported	Plot page
					Back side	10	23230	782	24	23.31	17.22%	0.385	0.451	-
		1 RB	25	Top side	10	23230	782	24	23.31	17.22%	0.359	0.421	-	
			IND	23	Right side	0	23230	782	24	23.31	17.22%	0.153	0.179	-
				Left side	0	23230	782	24	23.31	17.22%	0.047	0.055	-	
LTE					Back side	10	23230	782	23	23.00	0.00%	0.396	0.396	-
Band	10MHz	QPSK	25 RB	0	Top side	10	23230	782	23	23.00	0.00%	0.296	0.296	-
13	TOWINZ	QFSK	23 KB	0	Right side	0	23230	782	23	23.00	0.00%	0.133	0.133	-
'	3				Left side	0	23230	782	23	23.00	0.00%	0.057	0.057	-
					Back side	10	23230	782	23	22.22	19.67%	0.384	0.460	-
			50 F	D D	Top side	10	23230	782	23	22.22	19.67%	0.261	0.312	-
			30 F	(D	Right side	0	23230	782	23	22.22	19.67%	0.128	0.153	-
				Left side	0	23230	782	23	22.22	19.67%	0.058	0.069	-	

LTE FDD Band XIII (with power reduction)

	Bandwi								Max. Rated	Measure d		Averaged 1g (V		
Mode		Modulatior	RB Size	RB start	Position	Distance (mm)	СН	Freq. (MHz)	Avg. Power + Max. Toleranc e (dBm)	Avg. Power	Scaling	Measured	Reported	Plot page
				0	Back side	0	23230	782	20	19.75	5.93%	1.060	1.123	-
		1 RB	25	Back side	0	23230	782	20	19.86	3.28%	1.080	1.115	-	
		LIVE	49	Back side	0	23230	782	20	19.67	7.89%	1.090	1.176	-	
			25	Top side	0	23230	782	20	19.86	3.28%	0.597	0.617	-	
LTE				0	Back side	0	23230	782	20	19.79	4.95%	1.050	1.102	-
Band	10MHz	QPSK	25 RB	12	Back side	0	23230	782	20	19.81	4.47%	1.090	1.139	-
13			25 110	25	Back side	0	23230	782	20	19.77	5.44%	1.080	1.139	-
			12	Top side	0	23230	782	20	19.81	4.47%	0.606	0.633	-	
				Back side	0	23230	782	20	19.80	4.71%	1.100	1.152	309	
			50 F	RB	Back side*	0	23230	782	20	19.80	4.71%	1.080	1.131	-
				Top side	0	23230	782	20	19.80	4.71%	0.610	0.639	-	

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

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LTE FDD Band XVII (without power reduction)

	Dondui								Max. Rated	Measure d		Averaged 1g (V		
Mode	Bandwi dth (MHz)	Modulatior	RB Size	RB start	Position	Distance (mm)	СН	Freq. (MHz)	Avg. Power + Max. Toleranc e (dBm)	Avg. Power	Scaling	Measured	Reported	Plot page
				Back side	10	23790	710	24	23.20	20.23%	0.426	0.512	-	
			1 RB	25	Top side	10	23790	710	24	23.20	20.23%	0.248	0.298	-
			IKB	25	Right side	0	23790	710	24	23.20	20.23%	0.200	0.240	-
					Left side	0	23790	710	24	23.20	20.23%	0.005	0.006	-
1,75					Back side	10	23790	710	23	22.16	21.34%	0.343	0.416	-
LTE Band	10MHz	QPSK	25 RB	12	Top side	10	23790	710	23	22.16	21.34%	0.190	0.231	-
	TOWNIZ	QFSIN	23 KD	12	Right side	0	23790	710	23	22.16	21.34%	0.152	0.184	-
''	17				Left side	0	23790	710	23	22.16	21.34%	0.004	0.005	-
					Back side	10	23800	711	23	22.19	20.50%	0.340	0.410	-
			50 F	D D	Top side	10	23800	711	23	22.19	20.50%	0.196	0.236	-
			30 F	\D	Right side	0	23800	711	23	22.19	20.50%	0.159	0.192	-
				Left side	0	23800	711	23	22.19	20.50%	0.006	0.007	-	

LTE FDD Band XVII (with power reduction)

	Bandwi								Max. Rated	Measure d		Averaged 1g (V		
Mode		Modulatior	RB Size	RB start	Position	Distance (mm)	CH	Freq. (MHz)	Avg. Power + Max. Toleranc e (dBm)	Avg. Power	Scaling	Measured	Reported	Plot page
					Back side	0	23780	709	21.5	21.29	4.95%	1.150	1.207	-
			1 RB	0	Back side	0	23790	710	21.5	21.36	3.28%	1.140	1.177	-
			IKD	"	Back side	0	23800	711	21.5	21.19	7.40%	1.170	1.257	-
					Top side	0	23790	710	21.5	21.36	3.28%	0.654	0.675	-
					Back side	0	23780	709	21.5	21.25	5.93%	1.130	1.197	-
LTE			25 RB	0	Back side	0	23790	710	21.5	21.38	2.80%	1.160	1.192	-
Band	10MHz	QPSK	23 KB	"	Back side	0	23800	711	21.5	21.32	4.23%	1.180	1.230	-
17					Top side	0	23790	710	21.5	21.38	2.80%	0.673	0.692	-
					Back side	0	23780	709	21.5	21.27	5.44%	1.150	1.213	-
					Back side	0	23790	710	21.5	21.38	2.80%	1.170	1.203	-
			50 F	RB	Back side	0	23800	711	21.5	21.34	3.75%	1.190	1.235	310
			JU IN		Back side*	0	23800	711	21.5	21.34	3.75%	1.150	1.193	-
					Top side	0	23790	710	21.5	21.38	2.80%	0.693	0.712	-

⁻ repeated at the highest SAR measurement according to the KDB 865664 D01

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CDMA / EVDO (BC0) (without power reduction)

Mode		Service	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged S. (W/		Plot page
							Toloranoo (abiii)	(dBiii)		Measured	Reported	
			Back side	10	384	836.52	25	23.89	29.12%	0.354	0.457	-
CDMA	EVDO	Rev. 0	Top side	10	384	836.52	25	23.89	29.12%	0.377	0.487	-
BC 0	LVDO	Subtype 0/1	Right side	0	384	836.52	25	23.89	29.12%	0.024	0.031	-
			Left side	0	384	836.52	25	23.89	29.12%	0.008	0.010	-

CDMA / EVDO (BC0) (with power reduction)

	Service	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged 1, (W/	g	Plot page				
						1010101100 (02111)	(32)		Measured	Reported					
		Back side	0	1013	824.7	19	18.42	14.29%	1.000	1.143	-				
	D 0	Back side	0	384	836.52	19	18.94	1.39%	1.030	1.044	311				
EVDO	Rev. 0 Subtype 0/1	Back side	0	777	848.31	19	18.91	2.09%	1.010	1.031	-				
	Subtype 0/1	Subtype 0/1	Subtype 0/1	Subtype 0/1	Subtype 0/1	Back side*	0	384	836.52	19	18.94	1.39%	0.992	1.006	-
		Left side	0	384	836.52	19	18.94	1.39%	0.568	0.576	-				

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

CDMA / EVDO (BC1) (without power reduction)

Mode		Service	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged 1, (W/ Measured	g kg)	Plot page
			Back side	10	1175	1908.75	25	24.21	19.95%	0.611	0.733	-
CDMA	EVDO	Rev. 0	Top side	10	1175	1908.75	25	24.21	19.95%	0.331	0.397	-
BC 1	EVDO	Subtype 0/1	Right side	0	1175	1908.75	25	24.21	19.95%	0.0399	0.048	-
			Left side	0	1175	1908.75	25	24.21	19.95%	0.0133	0.016	-

CDMA / EVDO (BC1) (with power reduction)

Mode		Service	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged 10 (W/	9	Plot page
							Tolerance (abin)	(dBIII)		Measured	Reported	
			Back side	0mm	25	1851.25	19	18.82	4.23%	1.160	1.209	-
			Back side	0mm	600	1880	19	18.83	3.99%	1.160	1.206	-
CDMA BC 1	EVDO	Rev. 0 Subtype 0/1	Back side	0mm	1175	1908.75	19	19.00	0.00%	1.270	1.270	312
		oubtypo or i	Back side*	0mm	1175	1908.75	19	19.00	0.00%	1.220	1.220	-
			Left side	0mm	1175	1908.75	19	19	0.00%	0.685	0.685	-

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

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In order to evaluate the simultaneous transmission SAR analysis based on the SAR data from both SAR reports(FCC ID: B94HNI06CAM & FCC ID: PD98265D2), we check the worst cases of WLAN SAR report in 2.4G and 5G respectively, such as the following shown.

WLAN SISO

Mode	Antenna	Position	Distance	СН	Freq.	Max. Rated Avg. Power +	Measured Avg. Power	Scaling		SAR over 1g /kg)	Plot
ivioue	Antenna	POSITION	(mm)	СП	(MHz)	Max. Tolerance (dBm)	(dBm)	Scaling	Measured	Reported	page
	Main	Back side	0	11	2462	15.00	14.98	0.46%	0.957	0.961	313
WLAN802.11b	Main	Top side	0	6	2437	15.00	14.96	0.93%	0.317	0.320	-
WLANOUZ.TID	Aux	Back side	0	11	2462	15.00	14.99	0.23%	1.030	1.032	314
	Aux	Top side	0	11	2462	15.00	14.99	0.23%	0.509	0.510	•
Bluetooth (GFSK)	Aux	Back side	0	39	2441	12.00	12.00	0.00%	0.391	0.391	-
Bidetootii (GFSK)	Aux	Top side	0	39	2441	12.00	12.00	0.00%	0.242	0.242	-
WLAN802.11a 5.3G	Main	Back side	0	56	5280	13.50	13.49	0.23%	0.873	0.875	-
WLAN802.11a 5.6G	Aux	Back side	0	116	5580	13.50	13.49	0.23%	0.824	0.826	315
WLAN802.11a 5.8G	Main	Top side	0	165	5825	13.50	13.48	0.46%	1.000	1.005	-
WLAIN002.11a 5.8G	Aux	Top side	0	124	5620	13.50	13.48	0.46%	1.150	1.155	-

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3. Simultaneous Transmission Analysis

Simultaneous Transmission Scenarios:

Simultaneous Transmit Configurations	Body
GPRS850/1900 + 2.4/5GHz WLAN Main	Yes
GPRS850/1900 + 2.4/5GHz WLAN Aux	Yes
GPRS850/1900 + 2.4/5GHz WLAN MIMO	Yes
WCDMA B2/4/5 + 2.4/5GHz WLAN Main	Yes
WCDMA B2/4/5 + 2.4/5GHz WLAN Aux	Yes
WCDMA B2/4/5 + 2.4/5GHz WLAN MIMO	Yes
LTE B2/4/5/7/12/13/17 + 2.4/5GHz WLAN Main	Yes
LTE B2/4/5/7/12/13/17 + 2.4/5GHz WLAN Aux	Yes
LTE B2/4/5/7/12/13/17 + 2.4/5GHz WLAN MIMO	Yes
CDMA BC0/BC1 + 2.4/5GHz WLAN Main	Yes
CDMA BC0/BC1 + 2.4/5GHz WLAN Aux	Yes
CDMA BC0/BC1 + 2.4/5GHz WLAN MIMO	Yes
GPRS850/1900 + 2.4/5GHz WLAN Main + BT	Yes
WCDMA B2/4/5 + 2.4/5GHz WLAN Main + BT	Yes
LTE B2/4/5/7/12/13/17 + 2.4/5GHz WLAN Main + BT	Yes
CDMA BC0/BC1 + 2.4/5GHz WLAN Main + BT	Yes

Note:

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^{1.} Bluetooth and WLAN Aux share the same antenna path, and BT may transmit with WLAN Main simultaneously.

^{2.} In order to evaluate the simultaneous transmission SAR based on the WLAN SAR report (FCC ID: PD98265D2), we checked the worst cases of WLAN SAR report in 2.4G and 5G respectively then used the highest reported WLAN SAR in the both reports to evaluate the simultaneous transmission SAR analysis to be more conservative.



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3.1 Estimated SAR calculation

According to KDB447498 D01 – When standalone SAR test exclusion applies to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to following to determine simultaneous transmission SAR test exclusion:

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

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

Mode / Band	Test position	test separation distance(mm)	Estimated SAR(W/kg)
WLAN Main 2.4 / 5G	right / left	> 50mm	0.4
WLAN Aux 2.4 / 5G	right	> 50mm	0.4
ВТ	right	> 50mm	0.4

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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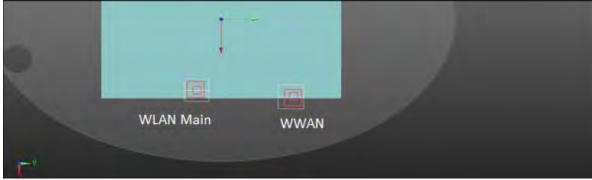


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GPRS 850 + 2.4GHz WLAN MIMO

No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
		Back side	0	1.249	0.961	1.032	3.242	Analyzed as below
1	GPRS 850	Top side	0	0.609	0.349	0.610	1.568	ΣSAR<1.6, Not required
'	GF N3 030	Right side	0	0.184	0.400	0.400	0.984	ΣSAR<1.6, Not required
		Left side	0	0.114	0.400	0.240	0.754	ΣSAR<1.6, Not required

<u>VVVVAN & VV</u>	VVVAN & VVLAN Main													
Conditions	Position	SAR Value	Coor	dinates	(cm)	ΣSAR	Peak Location Separation	SPLSR	Simultaneous Transmission					
		(W/kg)	х	у	Z	(W/kg)	Distance (mm)		SAR Test					
GPRS 850	Back side	1.249	10.34	9.18	-0.22	2.21	119.37	0.028	SPLSR<0.04,					
WLAN Main	Dack Side	0.961	9.70	-2.74	-0.24	2.21	119.57	0.020	Not required					
			-	_										



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WWAN & WI AN Aux

Conditions	Position	SAR Value	Coo	ordinates (cm)	ΣSAR	Peak Location Separation	SPLSR	Simultaneous Transmission	
		(W/kg)	х	у	Z	(W/kg)	Distance (mm)		SAR Test	
GPRS 850	Back side	1.249	10.34	9.18	-0.22	2.281	206	0.017	SPLSR<0.04,	
WLAN Aux	WLAN Aux Back side 1.032				-0.17	2.201	200	0.017	Not required	
2	WLAN Aux		1	W						
T'										

WLAN Main & WLAN Aux

VVLAIN IVIAIII	G VVL/II	1 / lux							
Conditions	Position	SAR Value	Coo	ordinates ((cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	x	У	Z	(W/Kg)	Distance (mm)		SAR Test
WLAN Main	Back side	0.961	9.70	-2.74	-0.24	1.993	86.9	0.032	SPLSR<0.04,
WLAN Aux	Dack side	1.032	10.06	-11.42	-0.17	1.555	00.5	0.032	Not required
· ·		0/	v	VLAN Au:		WLAN I	Main		

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GPRS 1900 + 2.4GHz WLAN MIMO

No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
		Back side	0	1.136	0.961	1.032	3.129	Analyzed as below
2	GPRS	Top side	0	0.653	0.349	0.610	1.612	Analyzed as below
	1900	Right side	0	0.393	0.400	0.400	1.193	ΣSAR<1.6, Not required
		Left side	0	0.157	0.400	0.240	0.797	ΣSAR<1.6, Not required

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WWAN & W	LAN Ma	ın								
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission	
		(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test	
GPRS 1900	Back side	1.136	9.29	6.46	-0.21	2.097	92.09	0.033	SPLSR<0.04,	
WLAN Main	Dack Side	0.961			2.097	92.09	0.033	Not required		
0	Main	W	WAN							

									_	
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission	
		(W/kg)	х	у	Z	(vv/kg)	Distance (mm)		SAR Test	
GPRS 1900	Top side	0.653	-0.85	5.10	-0.37	1.002	92.82	0.011	SPLSR<0.04,	
WLAN Main	Top side	0.349	-0.74	-4.18	-0.51	1.002	32.02	0.011	Not required	
	-	WLAN	Main		31	N.				

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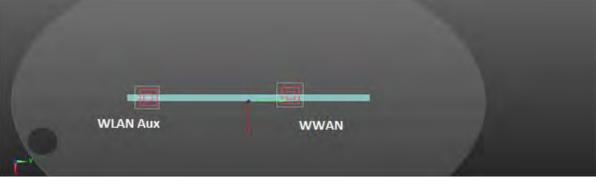
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WLAN Aux

VVVVAIN & VV	LAN AUX	AN AUX										
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission			
		(W/kg)	х	У	Z	(vv/kg)	Distance (mm)		SAR Test			
GPRS 1900	Back side	1.136 ck side		6.46	-0.21	2.168	179	0.018	SPLSR<0.04,			
WLAN Aux	Dack Side	1.032	10.06	-11.42	-0.17	2.100	179	0.010	Not required			
9												

Conditions	Position	SAR Value	e ΣSA		ΣSAR	Peak Location Separation		Simultaneous Transmission	
		(W/kg)	х	У	Z	(W/kg)	Distance (mm)		SAR Test
GPRS 1900	Top side	0.653	-0.40	8.10	-0.50	1.263	174.6	0.008	SPLSR<0.04,
WLAN Aux	Top side	0.610	-0.50	-12.36	-0.37	1.203	174.0	0.008	Not required

WWAN



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WLAN Main & WLAN Aux

WLAN Main	VLAN Main & VVLAN Aux										
Conditions	Position	SAR Value	Coo	ordinates (cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission		
		(W/kg)	×	У	Z	(W/Kg)	Distance (mm)		SAR Test		
WLAN Main	Back side	0.961	9.70	-2.74	-0.24	1.993	86.9	0.032	SPLSR<0.04,		
WLAN Aux	Dack side	1.032	10.06	-11.42	-0.17	1.555	00.0	0.032	Not required		
			v	VLAN Au:		WLAN N	Main				
T											

Conditions	Position	SAR Value	Cod	ordinates ((cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
	(W/I		Х	У	Z	(vv/kg)	Distance (mm)		SAR Test
WLAN Main	Top side	0.349	-0.74	-4.18	-0.51	0.959	81.8	0.011	SPLSR<0.04,
WLAN Aux	Top side	0.610	-0.50	-12.36	-0.37	0.939	01.0	0.011	Not required
-		6	٧	VLAN Au	×	WLAN	Main		

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WCDMA Band II + 2.4GHz WLAN MIMO

	21117 t 2411	4 II I 2.4C		***************************************				
No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
		Back side	0	1.025	0.961	1.032	3.018	Analyzed as below
3	WCDMA	Top side	0	0.577	0.349	0.610	1.536	ΣSAR<1.6, Not required
3	B2	Right side	0	0.186	0.400	0.400	0.986	ΣSAR<1.6, Not required
		Left side	0	0.154	0.400	0.240	0.794	ΣSAR<1.6, Not required

WWAN & W	LAN Mai	n							
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(W/Ng)	Distance (mm)		SAR Test
WCDMA B2	Back side			6.31	-0.17	1.986	90.54	0.031	SPLSR<0.04,
WLAN Main	Dack side	0.961	9.70	-2.74	-0.24	1.500	30.04	0.031	Not required
		WLAN N	Main	W	WAN				

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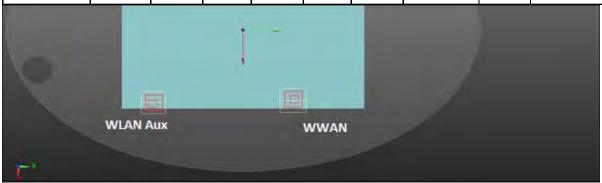
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WWAN & WLAN Aux

Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	У	Z	(vv/kg)	Distance (mm)		SAR Test
WCDMA B2	Back side	1.025	9.44	6.31	-0.17	2.057	177.4	0.017	SPLSR<0.04,
WLAN Aux	Dack Side	1.032	10.06	-11.42	-0.17	2.037	177.4	0.017	Not required



WI AN Main & WI AN Aux

VVLAIN IVIAIII	C VVL/II	1 / lux							
Conditions	Position	SAR Value	Coo	rdinates (cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	x	у	Z	(W/Ng)	Distance (mm)		SAR Test
WLAN Main	Back side	0.961	9.70	-2.74	-0.24	1.993	86.9	0.032	SPLSR<0.04,
WLAN Aux	Dack Side	1.032	10.06	-11.42	-0.17	1.993	00.9	0.032	Not required
		9	v	VLAN Au:	-	WLAN I	Main		

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WCDMA Band IV + 2.4GHz WLAN MIMO

No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
		Back side	0	1.223	0.961	1.032	3.216	Analyzed as below
4	, WCDMA	Top side	0	0.613	0.349	0.610	1.572	ΣSAR<1.6, Not required
4	B4	Right side	0	0.386	0.400	0.400	1.186	ΣSAR<1.6, Not required
		Left side	0	0.085	0.400	0.240	0.725	ΣSAR<1.6, Not required

WWAN & W	VWAN & WLAN Main										
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission		
		(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test		
WCDMA B4	Back side			6.31	-0.17	2.184	90.54	0.036	SPLSR<0.04,		
WLAN Main	Baok oldo	0.961	9.70	-2.74	-0.24	2.101	00.01	0.000	Not required		
		Main	/WAN								

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ΜΜΑΝ & ΜΙ ΔΝ Διιχ

WWWAN & WLAN AUX											
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission		
		(W/kg)	х	, ,		Distance (mm)		SAR Test			
WCDMA B4	Back side	1.223	9.43	6.31	-0.17	2.255	177.4	0.019	SPLSR<0.04,		
WLAN Aux	Dack Side	1.032	10.06	-11.42	-0.17	2.200	177.4	0.013	Not required		
0	WLAN A	ıx	ļ		WWAN				۱		
- v											

WLAN Main & WLAN Aux

VVLAIN IVIAIII	VLAN Main & WLAN Aux												
Conditions	Position	SAR Value	Coo	ordinates (cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission				
		(W/kg)	х	у	Z	(VV/Kg)	Distance (mm)		SAR Test				
WLAN Main	Back side	0.961	9.70	-2.74	-0.24	1.993	86.9	0.032	SPLSR<0.04,				
WLAN Aux	Baok oldo	1.032	10.06	-11.42	-0.17	1.000	00.0	0.002	Not required				
WLAN Aux 1.032 10.06 -11.42 -0.17 WLAN Aux WLAN Main													
-													

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WCDMA Band V + 2.4GHz WLAN MIMO

No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR			
		Back side	0	1.178	0.961	1.032	3.171	Analyzed as below			
5	5 WCDMA B5	Top side	0	0.667	0.349	0.610	1.626	Analyzed as below			
		Right side	0	0.141	0.400	0.400	0.941	ΣSAR<1.6, Not required			
		Left side	0	0.056	0.400	0.240	0.696	ΣSAR<1.6, Not required			

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WWAN & WLAN Main

VVVVAN & VVLAN Main												
Conditions	Position SAR Value		Сооі	dinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission			
		(W/kg)	х	у	Z	(vv/kg)	Distance (mm)		SAR Test			
WCDMA B5	Back side	1.178	10.34	9.02	-0.23	2.139	117.77	0.027	SPLSR<0.04,			
WLAN Main	Dack Side	0.961	9.70	-2.74	-0.24	2.100	117.77	0.021	Not required			
- *		WLAN M	lain	W								

Conditions	Position SAR Value (W/kg)		Coo	rdinates	(cm)	ΣSAR	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(W/kg)	Distance (mm)		SAR Test
WCDMA B5	Top side	0.667	-0.56	8.10	-0.48	1.016	122.81	0.008	SPLSR<0.04,
WLAN Main	Top side	0.349	-0.74	-4.18	-0.51	1.010	122.01	0.000	Not required
	_		_	-		-			
	WL	AN Main			WAN				
F-v									

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WWAN & WI AN Aux

WWAIN & WLAIN AUX											
Conditions	Position	SAR Value	Cod	ordinates ((cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission		
		(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test		
WCDMA B5	Back side	1.178	10.34	9.02	-0.23	2.21	204.4	0.016	SPLSR<0.04,		
WLAN Aux	Dack side	1.032	10.06	-11.42	-0.17	2.21	204.4	0.010	Not required		
	WLAN Aux			W							

Conditions			Cod	ordinates ((cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(vv/kg)	Distance (mm)		SAR Test
WCDMA B5	Top side	0.667	-0.56	8.10	-0.48	1.277	204.6	0.007	SPLSR<0.04,
WLAN Aux	Top side	0.610	-0.50	-12.36	-0.37	1.277	204.0	0.007	Not required
	-								
~ "	/LAN Aux				WAN				

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WI AN Main & WI AN Aux

/VLAN Main & VVLAN Aux											
Conditions	Position SAR Value (W/kg)		Coo	ordinates (cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission		
		(W/kg)	x	у	Z	(VV/Kg)	Distance (mm)		SAR Test		
WLAN Main	Back side	0.961	9.70	-2.74	-0.24	1.993	86.9	0.032	SPLSR<0.04,		
WLAN Aux	Baok olao	1.032	10.06	-11.42	-0.17	1.000	00.0	0.002	Not required		
			V	VLAN Au:		WLAN	Main				
TV											

Conditions	Conditions Position		AR Coordinates (cm)				Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	Х	У	Z	(W/kg)	Distance (mm)		SAR Test
WLAN Main	Top side	0.349	-0.74	-4.18	-0.51	0.959	81.8	0.011	SPLSR<0.04,
WLAN Aux	Top side	0.610	-0.50	-12.36	-0.37	0.939	01.0	0.011	Not required
-		6	٧	VLAN Au		WLAN	Main		

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CDMA BC0 + 2.4GHz WLAN MIMO

No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
		Back side	0	1.143	0.961	1.032	3.136	Analyzed as below
6	6 BC0	Top side	0	0.576	0.349	0.610	1.535	ΣSAR<1.6, Not required
	ВСО	Right side	0	0.029	0.400	0.400	0.829	ΣSAR<1.6, Not required
		Left side	0	0.010	0.400	0.240	0.650	ΣSAR<1.6, Not required

WWAN & WLAN Main											
Conditions	Conditions Position		Сооі	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission		
		(W/kg)	x	у	Z	(W/Kg)	Distance (mm)		SAR Test		
BC0	Back side	1.143	10.49	9.18	-0.20	2.104	119.46	0.026	SPLSR<0.04,		
WLAN Main	Dack Side	0.961	9.70	-2.74	-0.24	2.104	113.40	0.020	Not required		
- '		WLAN M		ww	/AN						

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WWAN & WLAN Aux

WWWAN & WLAN AUX												
Conditions	Position	SAR Value				ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission			
		(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test			
BC0	Back side	1.143	10.49	9.18	-0.20	2.175	206	0.016	SPLSR<0.04,			
WLAN Aux	Dack Side	1.032	10.06	-11.42	-0.17	2.173	200	0.010	Not required			
· · ·	VLAN Aux			W								

WI AN Main & WI AN Aux

WLAN Main	& VVLAI	1 Aux							
Conditions Position		SAR Value	Coo	rdinates (s (cm) ΣSA (W/k		Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	x	у	Z	(W/Kg)	Distance (mm)		SAR Test
WLAN Main	Back side	0.961	9.70	-2.74	-0.24	1.993	86.9	0.032	SPLSR<0.04,
WLAN Aux	Dack Side	1.032	10.06	-11.42	-0.17	1.555	00.0	0.032	Not required
			V	VLAN Aux		WLAN I	Main		
T.									

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CDMA BC1 + 2.4GHz WLAN MIMO

<u> </u>	DINA BOTT E. TOTIE WEAR MINIO												
No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR					
		Back side	0	1.270	0.961	1.032	3.263	Analyzed as below					
7	BC1	Top side	0	0.685	0.349	0.610	1.644	Analyzed as below					
'	ВСТ	Right side	0	0.050	0.400	0.400	0.850	ΣSAR<1.6, Not required					
		Left side	0	0.017	0.400	0.240	0.657	ΣSAR<1.6, Not required					

WWAN & W	LAN Mai	n							
Conditions	Position	SAR Value Coordinates (cm) ΣSAR (M/kg) Sep	Peak Location Separation	SPLSR	Simultaneous Transmission				
		(W/kg)	х			Distance (mm)		SAR Test	
BC1	Back side	1.270	9.28	6.31	-0.18	2.231	90.6	0.037	SPLSR<0.04,
WLAN Main	Dack Side	0.961	9.70	-2.74	-0.24	2.201	90.0	0.037	Not required
			1	-					



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ΜΜΑΝ & ΜΙ ΔΝ Διιχ

VVVVAIN & VV	VVVAN & VVLAN AUX											
Conditions	Position	SAR Value	ıe			ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission			
		(W/kg)	х	у	Z	(VV/Kg)	Distance (mm)		SAR Test			
BC1	Back side	1.270	9.28	6.31	-0.18	2.302	177.5	0.020	SPLSR<0.04,			
WLAN Aux	Dack Side	1.032	10.06	-11.42	-0.17	2.302	177.5	0.020	Not required			
		Aux		E	WWAN							

MILANI Main & MILANI ALIV

WLAN Main	& WLAN	I Aux							
Conditions	Position	Value		rdinates (dinates (cm)		Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	x	у	Z	(W/kg)	Distance (mm)		SAR Test
WLAN Main	Back side	0.961	9.70	-2.74	-0.24	1.993	86.9	0.032	SPLSR<0.04,
WLAN Aux	Back side	1.032	10.06	-11.42	-0.17	1.000	00.0	0.002	Not required
			W	VLAN Au:		WLAN I	Main		
T									

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LTE FDD Band II + 2.4GHz WLAN MIMO

ETE 1 DD Build II 1 2.40112 WEAR IIIIIIIO												
No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR				
		Back side	0	1.051	0.961	1.032	3.044	Analyzed as below				
8	LTE Band	Top side	0	0.579	0.349	0.610	1.538	ΣSAR<1.6, Not required				
	2	Right side	0	0.260	0.400	0.400	1.060	ΣSAR<1.6, Not required				
		Left side	0	0.114	0.400	0.240	0.754	ΣSAR<1.6, Not required				

WWAN & WLAN Main												
Conditions	Position	SAR Coordinates (cm) Value			(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission			
		(W/kg)	Х	у	Z	(W/Kg)	Distance (mm)		SAR Test			
LTE B2	Back side	1.051	9.44	6.47	-0.20	2.012	92.14	0.031	SPLSR<0.04,			
WLAN Main	Back side	0.961	9.70	-2.74	-0.24	2.012	02.14	0.001	Not required			
r v		WLAN I	Main		WAN							

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WWAN & WLAN Aux

VV VV / (1 V C V V	WWAN & WLAN AUX											
Conditions	Position	SAR Value	Cod	ordinates ((cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission			
		(W/kg)	x	у	Z	(VV/Ng)	Distance (mm)		SAR Test			
LTE B2	Back side	1.051	9.44	6.47	-0.20	2.083	179	0.017	SPLSR<0.04,			
WLAN Aux	Dack Side	1.032	10.06	-11.42	-0.17	2.000	175	0.017	Not required			
I I I I I I I I I I I I I I I NOT FEC												
	WLAN A	IX		,	WWAN							
T'												

WI AN Main & WI AN Aux

WLAN Main	& WLAN	ı Aux							
Conditions	Position	SAR Coordinates (cm)			cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	×	У	Z	(VV/Kg)	Distance (mm)		SAR Test
WLAN Main	Back side	0.961	9.70	-2.74	-0.24	1.993	86.9	0.032	SPLSR<0.04,
WLAN Aux	Dack Side	1.032	10.06	-11.42	-0.17	1.555	00.5	0.032	Not required
-			v	VLAN Au		WLAN N	Main		

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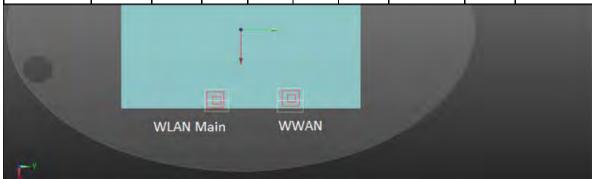
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LTE FDD Band IV + 2.4GHz WLAN MIMO

No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
		Back side	0	1.225	0.961	1.032	3.218	Analyzed as below
9	LTE Band	Top side	0	0.639	0.349	0.610	1.598	ΣSAR<1.6, Not required
9	4	Right side	0	0.291	0.400	0.400	1.091	ΣSAR<1.6, Not required
		Left side	0	0.125	0.400	0.240	0.765	ΣSAR<1.6, Not required

WWAN & WLAN Main

Conditions	Conditions Position		Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(vv/kg)	Distance (mm)		SAR Test
LTE B4	Back side	1.225	9.28	6.47	-0.21	2.186	92.2	0.035	SPLSR<0.04,
WLAN Main	Dack Side	0.961	9.70	-2.74	-0.24	2.100	32.2	0.000	Not required



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WWAN & WLAN Aux

Conditions	Conditions Position		Coo	ordinates ((cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	x	у	Z	(W/Kg)	Distance (mm)		SAR Test
LTE B4	- Back side	1.225	9.28	6.47	-0.21	2.257	179.1	0.019	SPLSR<0.04,
WLAN Aux	Dack Side	1.032	10.06	-11.42	-0.17	2.237	179.1	0.019	Not required



WI AN Main & WI AN Aux

WLAN Main	VLAN WAIN & WLAN AUX										
Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission		
		(W/kg)	x	У	Z	(W/Kg)	Distance (mm)		SAR Test		
WLAN Main	Back side	0.961	9.70	-2.74	-0.24	1.993	86.9	0.032	SPLSR<0.04,		
WLAN Aux	Dack side	1.032	10.06	-11.42	-0.17	1.555	00.0	0.032	Not required		
		9	V	VLAN Au:	-	WLAN I	Main				

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LTE FDD Band V + 2.4GHz WLAN MIMO

١	۱o.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
	10 LTE Band 5	Back side	0	1.258	0.961	1.032	3.251	Analyzed as below	
		LTE Band	Top side	0	0.667	0.349	0.610	1.626	Analyzed as below
		Right side	0	0.099	0.400	0.400	0.899	ΣSAR<1.6, Not required	
		Left side	0	0.046	0.400	0.240	0.686	ΣSAR<1.6, Not required	

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WWAN & WI AN Main

VVVVAN & VVLAN Main										
Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission	
		(W/kg)	×	у	Z	2.219	Distance (mm)	0.028	SAR Test	
LTE B5	-Back side	1.258	10.34	9.18	-0.20				SPLSR<0.04,	
WLAN Main	Dack Side	0.961	9.70	-2.74	-0.24	2.213	110.07	0.020	Not required	
- -∨		WLAN M		ww						

Conditions	Position			Coordinates (cm)			Peak Location Separation	SPLSR	
		(W/kg)	х	у	Z	(W/kg)	Distance (mm)		SAR Test
LTE B5		0.667	-0.46	8.25	-0.51	1 016	124.33	0.008	SPLSR<0.04, Not required
WLAN Main	Top side	0.349	-0.74	-4.18	-0.51	1.016			
7/10									
	WL	AN Main		w	WAN				
-									
T'									

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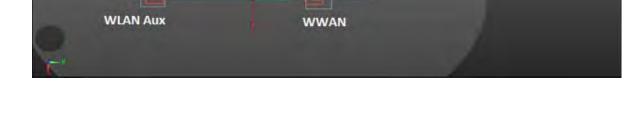


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WWAN & WI AN Aux

VVVVAN & VVLAN AUX										
Conditions Position		SAR Value	Cod	ordinates (dinates (cm)		Peak Location Separation	SPLSR	Simultaneous Transmission	
		(W/kg)	x	у	Z	(W/kg)	Distance (mm)		SAR Test	
LTE B5	Back side	1.258	10.34	9.18	-0.20	2.29	206	0.017	SPLSR<0.04,	
WLAN Aux	Dack side	1.032	10.06	-11.42	-0.17	2.20	200	0.017	Not required	
0	WLAN Aux WLAN Aux									

Conditions Position	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation	SPLSR	
	(W/kg)	х	У	Z	(W/Kg)	Distance (mm)		SAR Test	
LTE B5	Top side	0.667	-0.46	8.25	-0.51	1.277	206.1	0.007	SPLSR<0.04, Not required
WLAN Aux		0.610	-0.50	-12.36	-0.37	1.277			
1									



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WLAN Main & WLAN Aux

WLAN Main & WLAN Aux										
Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation	SPLSR		
		(W/kg)	Х	У	Z	(VV/Kg)	Distance (mm)		SAR Test	
WLAN Main	Back side	0.961	9.70	-2.74	-0.24	1.993	86.9	0.032	SPLSR<0.04,	
WLAN Aux	Dack side	1.032	10.06	-11.42	-0.17	1.555	00.0	0.032	Not required	
WLAN Aux										
T					-					

Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	Х	У	Z	(VV/Kg)	Distance (mm)		SAR Test
WLAN Main	Top side	0.349	-0.74	-4.18	-0.51	0.959	81.8	0.011	SPLSR<0.04,
WLAN Aux	Top side	0.610	-0.50	-12.36	-0.37	0.503	57.0	0.011	Not required
-		6	٧	VLAN Au		WLAN	Main		

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LTE FDD Band VII + 2.4GHz WLAN MIMO

	TE 1 DD Build VII 1 2.40112 WEAR MINIO											
No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR				
		Back side	0	1.160	0.961	1.032	3.153	Analyzed as below				
11	LTE Band	Top side	0	0.562	0.349	0.610	1.521	ΣSAR<1.6, Not required				
' '	7	Right side	0	0.677	0.400	0.400	1.477	ΣSAR<1.6, Not required				
		Left side	0	0.042	0.400	0.240	0.682	ΣSAR<1.6, Not required				

1	WWAN & W	LAN Mai	n							
	Conditions	Position	SAR Value	Cool	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
			(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test
	LTE B7 Back side		1.160	9.08	5.84	-0.18	2.121	86.03	0.036	SPLSR<0.04,
	WLAN Main	Back side	0.961	9.70	-2.74	-0.24	2.121	00.00	0.000	Not required
	-		WLAN	Main	V	/WAN				

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WWAN & WLAN Aux

WWAN & WLAN Aux												
Conditions	Position	SAR Value	Coo	ordinates ((cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR				
		(W/kg)	х	У	Z	(vv/kg)	Distance (mm)		SAR Test			
LTE B7	Back side	1.160	9.08	5.84	-0.18	2.192	172.9	0.019	SPLSR<0.04,			
WLAN Aux	Dack side	1.032	10.06	-11.42	-0.17	2.102	172.5	0.010	Not required			
0					7	ı						
-	WLAN A	ux		,	wwan							

WLAN Main & WLAN Aux

	& WLAI	17 10171							
Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	x	У	Z	(W/Kg)	Distance (mm)		SAR Test
WLAN Main	Back side	0.961	9.70	-2.74	-0.24	1.993	86.9	0.032	SPLSR<0.04,
WLAN Aux	Dack Side	1.032	10.06	-11.42	-0.17	1.993	00.9	0.032	Not required
			V	VLAN Au:		WLAN I	Main		

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LTE FDD Band XII + 2.4GHz WLAN MIMO

		. 4. 7 1		_,				
No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
		Back side	0	1.208	0.961	1.032	3.201	Analyzed as below
12	LTE Band	Top side	0	0.686	0.349	0.610	1.645	Analyzed as below
12	12	Right side	0	0.246	0.400	0.400	1.046	ΣSAR<1.6, Not required
		Left side	0	0.016	0.400	0.240	0.656	ΣSAR<1.6, Not required

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WWAN & WI AN Main

WWAN & WLAN Main												
Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission			
		(W/kg)	x	у	Z	(W/Kg)	Distance (mm)		SAR Test			
LTE B12	Back side	1.208	10.10	9.10	-0.24	2.169	118.47	0.027	SPLSR<0.04,			
WLAN Main	Back side	0.961	9.70	-2.74	-0.24	2.109	110.47	0.021	Not required			
9		WLAN M	Tain	Į.	VAN							
-												

Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(vv/kg)	Distance (mm)		SAR Test
LTE B12	Top side	0.686	0.00	12.50	-0.45	1.035	166.97	0.006	SPLSR<0.04,
WLAN Main	Top side	0.349	-0.74	-4.18	-0.51	1.033	100.97	0.000	Not required



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WWAN & WLAN Aux

77777114 C 77	/VVAIN & VVLAIN AUX												
Conditions	Position	SAR Value	Coo	ordinates (cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission				
		(W/kg)	x	у	Z	(W/Ng)	Distance (mm)		SAR Test				
LTE B12	Back side	1.208	10.10	9.10	-0.24	2.24	205.2	0.016	SPLSR<0.04,				
WLAN Aux	Dack side	1.032	10.06	-11.42	-0.17	2.27	200.2	0.010	Not required				
9	WLAN Aux		ļ	W	WAN				۱				
+													

Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (M/kg)	SAR Location Separation Distance (mm)	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(vv/kg)			SAR Test
LTE B12	Top side	0.686	0.00	12.50	-0.45	1.296	248.7	0.006	SPLSR<0.04,
WLAN Aux		0.610	-0.50	-12.36	-0.37	1.290	240.7	0.000	Not required



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WLAN Main	& WLAN	l Aux							
Conditions	Position	SAR Value	Coo	rdinates (rdinates (cm) ΣSAR (W/kg)		Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	x	У	Z	(VV/Kg)	Distance (mm)		SAR Test
WLAN Main	Back side	0.961	9.70	-2.74	-0.24	1.993	86.9	0.032	SPLSR<0.04,
WLAN Aux				-11.42	-0.17	1.000	00.0	0.002	Not required
			V	VLAN Au		WLAN	Main		
T-V									

Conditions	Position	SAR Value	Cod	ordinates ((cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	Х	У	Z	(vv/kg)	Distance (mm)		SAR Test
WLAN Main	Top side	0.349	-0.74	-4.18	-0.51	0.959	81.8	0.011	SPLSR<0.04,
WLAN Aux	Top side	0.610	-0.50	-12.36	-0.37	0.939	01.0	0.011	Not required
-		6	٧	VLAN Au		WLAN	Main		

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LTE FDD Band XIII + 2.4GHz WLAN MIMO

	TE 1 DD Build XIII 1 2.4012 WEAR MINING											
No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR				
		Back side	0	1.176	0.961	1.032	3.169	Analyzed as below				
13	LTE Band	Top side	0	0.639	0.349	0.610	1.598	ΣSAR<1.6, Not required				
13	13	Right side	0	0.179	0.400	0.400	0.979	ΣSAR<1.6, Not required				
		Left side	0	0.069	0.400	0.240	0.709	ΣSAR<1.6, Not required				

WWAN & WLAN Main											
Conditions	Position	SAR Value	Cooi	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR			
		(W/kg)	х	у	Z	(VV/Ng)	Distance (mm)		SAR Test		
LTE B13	Back side		10.60	9.02	-0.19	2.137	117.98	0.026	SPLSR<0.04,		
WLAN Main	Dack Side	0.961	9.70	-2.74	-0.24	2.107	117.50	0.020	Not required		
<u>~</u> ∨		WLAN M		ww	2						

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WWAN & WI AN Aux

V V V V / (1 4 C V V	VWAN & WLAN Aux											
Conditions	Position	SAR Value	Cod	ordinates (cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission			
		(W/kg)	x	у	Z	(W/Kg)	Distance (mm)		SAR Test			
LTE B13	Back side	1.176	10.60	9.02	-0.19	2.208	204.5	0.016	SPLSR<0.04,			
WLAN Aux	LAN Aux Back side 1.032			-11.42	-0.17	2.200	204.0	0.010	Not required			
, v	VLAN Aux			wv	VAN							

\A/I A N I N I m i.o. O \A/I A N I A

WLAN Main	& WLAN	N AUX									
Conditions	Position	SAR Value	Coo	ordinates (cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission		
		(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test		
WLAN Main	Back side	0.961	9.70	-2.74	-0.24	1.993	86.9	0.032	SPLSR<0.04,		
WLAN Aux	Buok oldo	1.032	10.06	-11.42	-0.17	1.000	00.0	0.002	Not required		
-			V	VLAN Au		WLAN I	Main				

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LTE FDD Band XVII + 2.4GHz WLAN MIMO

No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
		Back side	0	1.257	0.961	1.032	3.25	Analyzed as below
14	LTE Band	Top side	0	0.712	0.349	0.610	1.671	Analyzed as below
14	17	Right side	0	0.240	0.400	0.400	1.040	ΣSAR<1.6, Not required
		Left side	0	0.007	0.400	0.240	0.647	ΣSAR<1.6, Not required

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WWAN & WI AN Main

VV VV AIN & VV	VVVAN & VVLAN Main												
Conditions	Position	SAR Value	Cool	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission				
		(W/kg)	×	у	Z	(W/Kg)	Distance (mm)		SAR Test				
LTE B17	Back side	1.257	9.43	7.18	-0.27	2.218	99.24	0.033	SPLSR<0.04,				
WLAN Main	Back side		9.70	-2.74	-0.24	2.210	33.24	0.000	Not required				
		WLAN N	Main	W	WAN								

Conditions	Position	SAR Value	Coo	ordinates (cm)		Coordinates (cm)		ΣSAR (W/kg)	_{M/kg)} Separation	Location Separation	ΣSAR Location Separation		Simultaneous Transmission
		(W/kg)	x	у	Z	(vv/kg)	Distance (mm)		SAR Test				
LTE B17	Top side	0.712	-0.55	12.45	-0.46	1.061	166.31	0.007	SPLSR<0.04,				
WLAN Main	Top side	0.349	-0.74	-4.18	-0.51	1.001	100.51	0.007	Not required				



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WWAN & WI AN Aux

VVVAINCEVV	VIVAN & VILAN AUX											
Conditions	Position	SAR Value	Coo	rdinates ((cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission			
		(W/kg)	х	у	Z	(VV/Kg)	Distance (mm)		SAR Test			
LTE B17	Rack side	1.257	9.43	7.18	-0.27	2.289	186.1	0.019	SPLSR<0.04,			
WLAN Aux	WLAN Aux Back side		10.06	-11.42	-0.17	2.203	100.1	0.013	Not required			
	WLAN Aux	1	1	w	WAN							

Conditions	Position	SAR Value	Coo	rdinates (cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	x	У	Z	(vv/kg)	Distance (mm)		SAR Test
LTE B17	Top side	0.712	-0.55	12.45	-0.46	1.322	248.1	0.006	SPLSR<0.04,
WLAN Aux	Top side	0.610	-0.50	-12.36	-0.37	1.022	240.1	0.000	Not required



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WI AN Main & WI AN Aux

WLAN Main	& WLAN	ı Aux							
Conditions	Position	SAR Value	Coo	rdinates (cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test
WLAN Main	Back side	0.961	9.70	-2.74	-0.24	1.993	86.9	0.032	SPLSR<0.04,
WLAN Aux	Baok oldo	1.032	10.06	-11.42	-0.17	1.000	00.0	0.002	Not required
			v	VLAN Aux		WLAN I	Main		

Conditions	Position	SAR Value	Cod	ordinates ((cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	v v - Distar		Distance (mm)		SAR Test		
WLAN Main	Top side	0.349	-0.74	-4.18	-0.51	0.959	81.8	0.011	SPLSR<0.04,
WLAN Aux	Top side	0.610	-0.50	-12.36	-0.37	0.939	01.0	0.011	Not required
-		6	٧	VLAN Au		WLAN	Main		

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GPRS 850 + 5GHz WLAN MIMO

<u> </u>	1 10 000 1 00112 WEAR IMMO											
No	. Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR				
		Back side	0	1.249	0.890	0.826	2.965	Analyzed as below				
15	GPRS 850	Top side	0	0.609	1.020	1.230	2.859	Analyzed as below				
	GFK3 630	Right side	0	0.184	0.400	0.400	0.984	ΣSAR<1.6, Not required				
		Left side	0	0.114	0.400	0.220	0.734	ΣSAR<1.6, Not required				

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WWAN & WI AN Main

V V V V / 11 4 CX V V	VVVAIN & VVLAIN IVIAIII											
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission			
		(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test			
GPRS 850	Back side	1.249	10.34	9.18	-0.22	2.139	124.9	0.025	SPLSR<0.04,			
WLAN Main	Back side 0.890		9.52	-3.28	-0.20	2.100	124.5	0.023	Not required			
- *	WI	AM Mair		wv								

Conditions	Position	SAR Value	Cool	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	Х	у	Z	(vv/kg)	Distance (mm)		SAR Test
GPRS 850	Top side	0.609	-0.40	8.10	-0.50	1.629	120.6	0.017	SPLSR<0.04,
WLAN Main	Top side	1.020	-0.60	-3.96	-0.38	1.029	120.0	0.017	Not required



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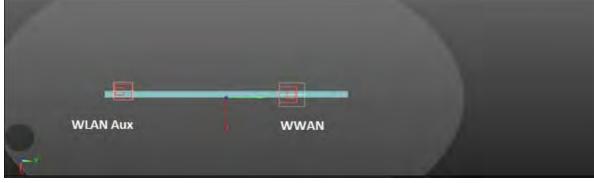


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WWAN & WI AN Aux

VVVVAINCEVV	VVVAN & VVLAN AUX										
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission		
		(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test		
GPRS 850	Back side	1.249	10.34	9.18	-0.22	2.075	206.31	0.014	SPLSR<0.04,		
WLAN Aux	Dack side	0.826	9.68	-11.44	-0.21	2.070	200.01	0.014	Not required		
2			1	-							
	WLAN A	ux		w	WAN						
E*											

Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	Х	у	Z	(vv/kg)	Distance (mm)		SAR Test
GPRS 850	Top side	0.609	-0.40	8.10	-0.50	1.839	213.6	0.012	SPLSR<0.04,
WLAN Aux	Top side	1.230	-0.74	-13.26	-0.38	1.039	213.0	0.012	Not required



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WI AN Main & WI AN Aux

WLAN Main	LAN Main & WLAN Aux											
Conditions	Position	SAR Value	Cod	ordinates ((cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission			
		(W/kg)	х	У	Z	(W/Kg)	Distance (mm)		SAR Test			
WLAN Main	Back side	0.890	9.52	-3.28	-0.20	1.716	81.6	0.028	SPLSR<0.04,			
WLAN Aux	Dack Side	0.826	9.68	-11.44	-0.21	1.710	01.0	0.020	Not required			
				-			-					
24			V	VLAN Au		WLAN	Main					

Conditions	Position SAR Value (W/kg)		Cod	ordinates ((cm)	ΣSAR	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	Х	у	Z	(W/kg)	Distance (mm)		SAR Test
WLAN Main	Top side	1.020	-0.60	-3.96	-0.38	2.25	93.01	0.036	SPLSR<0.04,
WLAN Aux	Top side	1.230	-0.74	-13.26	-0.38	2.20	33.01	0.000	Not required
- V			V	VLAN Au	-	WLAN	Main		

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GPRS 1900 + 5GHz WLAN MIMO

No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
		Back side	0	1.136	0.890	0.826	2.852	Analyzed as below
16	GPRS	Top side	0	0.653	1.020	1.230	2.903	Analyzed as below
10	1900	Right side	0	0.393	0.400	0.400	1.193	ΣSAR<1.6, Not required
		Left side	0	0.157	0.400	0.220	0.777	ΣSAR<1.6, Not required

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WWAN & WI AN Main

VVVAIVQVV	WAN & WLAN Main										
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission		
		(W/kg)	x	у	Z	(W/Ng)	Distance (mm)		SAR Test		
GPRS 1900	Back side	1.136	9.29	6.46	-0.21	2.026	97.4	0.030	SPLSR<0.04,		
WLAN Main	Dack Side	0.890	9.52	-3.28	-0.20	2.020	97.4	0.030	Not required		
9				Œ) WWAN						
+		WLAM N	iain								

Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test
GPRS 1900	Top side	0.653	-0.85	5.10	-0.37	1.673	90.6	0.024	SPLSR<0.04,
WLAN Main	Top side	1.020	-0.60	-3.96	-0.38	1.073	30.0	0.024	Not required
	-	WLAN	Main	į		N			

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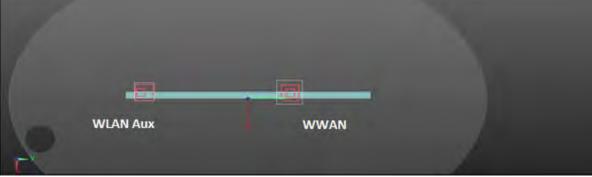


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WWAN & WI AN Aux

VVVAINGVV	VVAIN & VVLAIN AUX											
Conditions	Position	SAR Value	Coo	rdinates ((cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission			
		(W/kg)	x	у	Z	(vv/kg)	Distance (mm)		SAR Test			
GPRS 1900	Back side	1.136	9.29	6.46	-0.21	1.962	179.04	0.015	SPLSR<0.04,			
WLAN Aux	Dack Side	0.826	9.68	-11.44	-0.21	1.902	17 9.04	0.013	Not required			
9	E	3]	ļ	Œ								
	WLAN	Aux		W	WAN							
_ v												

Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	У	Z	(W/Kg)	Distance (mm)		SAR Test
GPRS 1900	Top side	0.653	-0.85	5.10	-0.37	1.883	183.6	0.014	SPLSR<0.04,
WLAN Aux	Top side	1.230	-0.74	-13.26	-0.38	1.003	100.0	0.014	Not required



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WLAN Main & WLAN Aux

	LAN Main & WLAN Aux											
Conditions	Position	SAR Value	Cod	ordinates ((cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission			
		(W/kg)	х	У	Z	(vv/kg)	Distance (mm)		SAR Test			
WLAN Main	Back side	0.890	9.52	-3.28	-0.20	1.716	81.6	0.028	SPLSR<0.04,			
WLAN Aux	Dack side	0.826	9.68	-11.44	-0.21	1.710	01.0	0.020	Not required			
	WLAN Aux WLAN Main											

Conditions	Position	SAR Value	Cod	ordinates ((cm)	ΣSAR	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	Х	У	Z	(W/kg)	Distance (mm)		SAR Test
WLAN Main	Top side	1.020	-0.60	-3.96	-0.38	2.25	93.01	0.036	SPLSR<0.04,
WLAN Aux	Top side	1.230	-0.74	-13.26	-0.38	2.20	30.01	0.000	Not required
*			V	VLAN Au		WLAN	Main		

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WCDMA Band II + 5GHz WLAN MIMO

No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
		Back side	0	1.025	0.890	0.826	2.741	Analyzed as below
17	WCDMA	Top side	0	0.577	1.020	1.230	2.827	Analyzed as below
''	B2	Right side	0	0.186	0.400	0.400	0.986	ΣSAR<1.6, Not required
		Left side	0	0.154	0.400	0.220	0.774	ΣSAR<1.6, Not required

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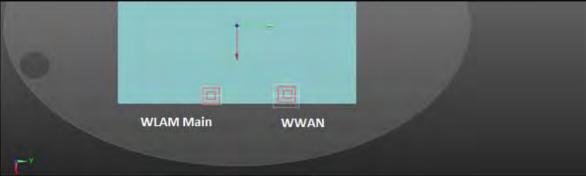
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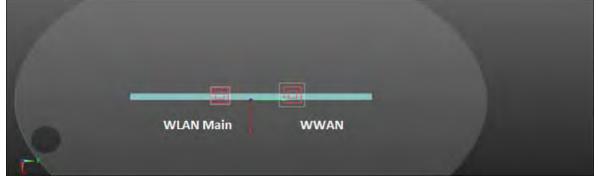
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WWAN & WI AN Main

VVVVAIV & VV	/WAIN & WEAIN IVIAIII													
Conditions P	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission					
		(W/kg)	х	у	Z	(vv/kg)	Distance (mm)		SAR Test					
WCDMA B2	Back side	1.025	9.44	6.31	-0.17	1 015	05.0	0.038	SPLSR<0.04,					
WLAN Main	Dack Side	0.890	9.52	-3.28	-0.20	1.915	95.9	0.028	Not required					
l l			1	1 16										
V														



Conditions	Position	SAR Value	Coo	ordinates ((cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(vv/kg)	Distance (mm)		SAR Test
WCDMA B2	Top side	0.577	-0.70	5.10	-0.37	1.597	90.6	0.022	SPLSR<0.04,
WLAN Main	Top side	1.020	-0.60	-3.96	-0.38	1.597	90.0	0.022	Not required



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WWAN & WLAN Aux

VV VVAIN & VV	VWAN & WLAN Aux											
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission			
		(W/kg)	х	у	Z	(VV/Ng)	Distance (mm)		SAR Test			
WCDMA B2	Back side	1.025	9.44	6.31	-0.17	1.851	177.52	0.014	SPLSR<0.04,			
WLAN Aux	Dack side	0.826	9.68	-11.44	-0.21	1.001	177.02	0.014	Not required			
9	(E		ļ									
	WLAN	Aux		١	WWAN							

Conditions	Position	SAR Value	Cod	ordinates ((cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(vv/kg)	Distance (mm)		SAR Test
WCDMA B2	Tan side	0.577	-0.70	5.10	-0.37	1 907	183.6	0.013	SPLSR<0.04,
WLAN Aux	Top side	1.230	-0.74	-13.26	-0.38	1.807	103.0	0.013	Not required
A									



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WI AN Main & WI AN Aux

WLAN Main	VLAN Main & WLAN Aux												
Conditions				ordinates ((cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission				
		(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test				
WLAN Main	Back side	0.890	9.52	-3.28	-0.20	1.716	81.6	0.028	SPLSR<0.04,				
WLAN Aux	Buok oldo	0.826	9.68	-11.44	-0.21	1.710	01.0	0.020	Not required				
	WLAN Aux												
· · · · · · · · · · · · · · · · · · ·													

Conditions	Position	SAR Value				ΣSAR	Peak Location Separation	SPLSR	Simultaneous Transmission
			Х	У	Z	(W/kg)	Distance (mm)		SAR Test
WLAN Main	Top side	1.020	-0.60	-3.96	-0.38	2.25	93.01	0.036	SPLSR<0.04,
WLAN Aux	Top side	1.230	-0.74	-13.26	-0.38	2.20	30.01	0.000	Not required
			V	VLAN Au		WLAN	Main		

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WCDMA Band IV + 5GHz WLAN MIMO

No	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
		Back side	0	1.223	0.890	0.826	2.939	Analyzed as below
18	WCDMA	Top side	0	0.613	1.020	1.230	2.863	Analyzed as below
10	B4	Right side	0	0.386	0.400	0.400	1.186	ΣSAR<1.6, Not required
		Left side	0	0.085	0.400	0.220	0.705	ΣSAR<1.6, Not required

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WWAN & WLAN Main

VV VV/ (14 Q VV	VVVAN & VVLAN Main											
Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission			
		(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test			
WCDMA B4	Back side	1.223	9.43	6.31	-0.17	2.113	95.9	0.032	SPLSR<0.04,			
WLAN Main	Dack side	0.890	9.52	-3.28	-0.20	2.113	33.3	0.032	Not required			
0				<u> </u>	1							
- ×	'	WLAM M	ain		WWAN							

Conditions	Position	SAR Value	Cod	ordinates ((cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	У	Z	(vv/kg)	Distance (mm)		SAR Test
WCDMA B4	Top side	0.613	-0.70	5.10	-0.37	1.633	90.6	0.023	SPLSR<0.04,
WLAN Main	Top side	1.020	-0.60	-3.96	-0.38	1.000	30.0	0.020	Not required
	_								
1		WLAN			WWAN				

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WWAN & W	LAN Aux	(
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	У	Z	(vv/kg)	Distance (mm)		SAR Test
WCDMA B4	Back side	1.223	9.43	6.31	-0.17	2.049	177.52	0.017	SPLSR<0.04,
WLAN Aux	Dack Side	0.826	9.68	-11.44	-0.21	2.043	177.52	0.017	Not required
0	WLAN A		ļ	W.	WAN				

Conditions	Position	SAR Value	Coo	ordinates ((cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	(W/kg)	х	у	Z	(W/Kg)	Distance (mm)	
WCDMA B4	Top side	0.613	-0.70	5.10	-0.37	1.843	183.6	0.014	SPLSR<0.04,
WLAN Aux	Top side	1.230	-0.74	-13.26	-0.38	1.043	103.0	0.014	Not required



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WI AN Main & WI AN Aux

VVLAIN IVIAII	VLAN Main & VVLAN Aux											
Conditions	Position	SAR Value	Cod	ordinates ((cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission			
		(W/kg)	х	у	Z	(vv/kg)	Distance (mm)		SAR Test			
WLAN Main	Back side	0.890	9.52	-3.28	-0.20	1.716	81.6	0.028	SPLSR<0.04,			
WLAN Aux	Back side	0.826	9.68	-11.44	-0.21	1.710	01.0	0.020	Not required			
			V	VLAN Au	4	WLAN	Main					
T-V												

Conditions	Position	Position SAR Value (W/kg)		ordinates ((cm)	ΣSAR	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	Х	у	Z	(W/kg)	Distance (mm)		SAR Test
WLAN Main	Top side	1.020	-0.60	-3.96	-0.38	2.25	93.01	0.036	SPLSR<0.04,
WLAN Aux	Top side	1.230	-0.74	-13.26	-0.38	2.20	95.01	0.030	Not required
						I TOTAL			
			٧	VLAN Au		WLAN	Main		

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WCDMA Band V + 5GHz WLAN MIMO

No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
		Back side	0	1.178	0.890	0.826	2.894	Analyzed as below
19	WCDMA	Top side	0	0.667	1.020	1.230	2.917	Analyzed as below
19	B5	Right side	0	0.141	0.400	0.400	0.941	ΣSAR<1.6, Not required
		Left side	0	0.056	0.400	0.220	0.676	ΣSAR<1.6, Not required

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WWAN & WI AN Main

<u> </u>	WWAN & WEAN MAIN										
Conditions			Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR			
		(W/kg)	х	у	Z	(VV/Kg)	Distance (mm)		SAR Test		
WCDMA B5	Back side	1.178	10.34	9.02	-0.23	2.068	123.3	0.024	SPLSR<0.04,		
WLAN Main	Back side	0.890	9.52	-3.28	-0.20	2.000	120.0	0.024	Not required		
2	WL	AM Mair		wy							
-											

Conditions	Position	Position SAR Value (W/kg)		rdinates	(cm)	ΣSAR	Peak Location Separation	SPLSR	Simultaneous Transmission
			х	у	Z	(W/kg)	Distance (mm)		SAR Test
WCDMA B5	Top side	0.667	-0.56	8.10	-0.48	1.687	120.6	0.018	SPLSR<0.04,
WLAN Main	Top side	1.020	-0.60	-3.96	-0.38	1.007	120.0	0.010	Not required
1									
	_	-		_					
	w	LAN Mai		W	WAN				
-									

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WWAN & WI AN Aux

VVVVAIVXVV	VVVVAN & VVLAN AUX										
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission		
		(W/kg)	х	у	Z	(VV/Ng)	Distance (mm)		SAR Test		
WCDMA B5	Back side	1.178	10.34	9.02	-0.23	2.004	204.71	0.014	SPLSR<0.04,		
WLAN Aux	Dack Side	0.826	9.68	-11.44	-0.21	2.004	204.71	0.014	Not required		
	0	Table 1	Ţ						٦		
	WLAN Au	¥		wv	VAN						

Conditions	Conditions Position SAR Value (W/kg)		Coo	ordinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	У	Z	(vv/kg)	Distance (mm)		SAR Test
WCDMA B5	Top side	0.667	-0.56	8.10	-0.48	1.897	213.6	0.012	SPLSR<0.04,
WLAN Aux	Top side	1.230	-0.74	-13.26	-0.38	1.097	213.0	0.012	Not required
wı	AN Aux			W	WAN				
¥-									

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WLAN Main & WLAN Aux

VVLAIN Maili	VLAN Main & WLAN Aux											
Conditions	Position	SAR Value	Cod	ordinates ((cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission			
		(W/kg)	х	у	Z	(vv/kg)	Distance (mm)		SAR Test			
WLAN Main	Back side	0.890	9.52	-3.28	-0.20	1.716	81.6	0.028	SPLSR<0.04,			
WLAN Aux	Dack side	0.826	9.68	-11.44	-0.21	1.710	01.0	0.020	Not required			
				VLAN Au	4	WLAN	Main					
T												

Conditions	Position	Position SAR Value (W/kg)		ordinates ((cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	У	Z	(vv/kg)	Distance (mm)		SAR Test
WLAN Main	Top side	1.020	-0.60	-3.96	-0.38	2.25	93.01	0.036	SPLSR<0.04,
WLAN Aux	Top side	1.230	-0.74	-13.26	-0.38	2.23	95.01	0.030	Not required
· · ·		6	٧	VLAN Au		WLAN	Main		

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CDMA BC0 + 5GHz WLAN MIMO

<u> </u>	1117 (B 0 0 	OU + SOLIZ WEAR MINIO										
No	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR				
		Back side	0	1.143	0.890	0.826	2.859	Analyzed as below				
20	BC0	Top side	0	0.576	1.020	1.230	2.826	Analyzed as below				
20	ВСО	Right side	0	0.029	0.400	0.400	0.829	ΣSAR<1.6, Not required				
		Left side	0	0.010	0.400	0.220	0.630	ΣSAR<1.6, Not required				

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WWAN & WI AN Main

VVVAIVQVV									
Conditions	Position	SAR Value (W/kg)	Cooi	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
			x	у	Z	(W/Kg)	Distance (mm)		SAR Test
BC0	Back side	1.143	10.49	9.18	-0.20	2.033	125	0.023	SPLSR<0.04,
WLAN Main	Dack side	0.890	9.52	-3.28	-0.20	2.000	125	0.023	Not required
	WLAN AL	ıx	1	wv	VAN				
F*									

Conditions	Position	Position SAR Value (W/kg)		rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	Х	у	Z	(vv/kg)	Distance (mm)		SAR Test
BC0	Top side	0.576	-0.55	8.10	-0.50	1.596	12.06	0.167	SPLSR<0.04,
WLAN Main	100 3140	1.020	-0.60	-3.96	-0.38	1.000	12.00	0.107	Not required
	_	_							
	w	LAN Mai			WAN				
-									

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WWAN & WI AN Aux

VVVVAIN & VV									
Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
	Back side	(W/kg)	х	У	Z	1.969	Distance (mm)	0.013	SAR Test SPLSR<0.04,
BC0		1.143	10.49	9.18	-0.20				
WLAN Aux	Duck side	0.826	9.68	-11.44	-0.21	1.000	200.00	0.010	Not required
-	WLAN Aux WWAN								

Conditions	Position Top side	SAR Value (W/kg)	Coordinates (cm)			ΣSAR	Peak Location Separation	SPLSR	Simultaneous Transmission
			Х	у	Z	(W/kg)	Distance (mm)		SAR Test
BC0		0.576	-0.55	8.10	-0.50	1.806	213.6	0.011	SPLSR<0.04,
WLAN Aux	Top side	1.230	-0.74	-13.26	-0.38	1.000	210.0	0.011	Not required
o wi	AN Aux			W	WAN				

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WLAN Main & WLAN Aux

WLAN Main & WLAN Aux										
Conditions	Position Back side	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission	
			х	у	Z	(W/Kg)	Distance (mm)		SAR Test	
WLAN Main		0.890	9.52	-3.28	-0.20	1.716	81.6	0.028	SPLSR<0.04,	
WLAN Aux	Dack side	0.826	9.68	-11.44	-0.21	1.710	01.0	0.020	Not required	
WLAN Aux WLAN Main										
7-1										

	•					1				
Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission	
			Х	У	Z	(W/Kg)	Distance (mm)		SAR Test	
WLAN Main	Top side	1.020	-0.60	-3.96	-0.38	2.25	93.01	0.036	SPLSR<0.04, Not required	
WLAN Aux		1.230	-0.74	-13.26	-0.38					
WLAN Aux WLAN Main										

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CDMA BC1 + 5GHz WLAN MIMO

No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
		Back side	0	1.270	0.890	0.826	2.986	Analyzed as below
21	BC1	Top side	0	0.685	1.020	1.230	2.935	Analyzed as below
21	ВСТ	Right side	0	0.050	0.400	0.400	0.850	ΣSAR<1.6, Not required
		Left side	0	0.017	0.400	0.220	0.637	ΣSAR<1.6, Not required

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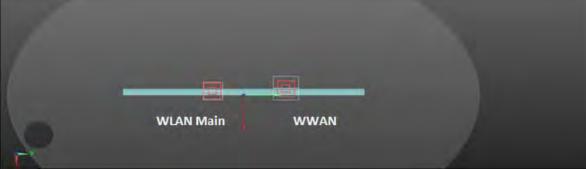


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WWAN & WI AN Main

WWAIN & WEATH MAIN												
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission			
		(W/kg)	х	у	Z	(vv/kg)	Distance (mm)		SAR Test			
BC1	Back side	1.143	10.49	9.18	-0.20	2.033	95.9	0.030	SPLSR<0.04,			
WLAN Main	Dack Side	0.890	9.52	-3.28	-0.20	2.033	95.9	0.030	Not required			
9				E	1							
		WLAM N	Main	3	WWAN							
T												

Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	Х	у	Z	(vv/kg)	Distance (mm)		SAR Test
BC1	Top side	0.685	-1.00	5.25	-0.37	1.705	92.2	0.024	SPLSR<0.04,
WLAN Main	Top side	1.020	-0.60	-3.96	-0.38	1.705	92.2	0.024	Not required
							7000		



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WWAN & WI AN Aux

VV VV/ (14 G VV	VVVAN & WLAN AUX											
Conditions	Position	SAR Value (W/kg)	Coo	rdinates ((cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission			
			x	у	Z	(VV/Ng)	Distance (mm)		SAR Test			
BC1	Back side	1.143	10.49	9.18	-0.20	1.969	177.55	0.016	SPLSR<0.04,			
WLAN Aux	Dack Side	0.826	9.68	-11.44	-0.21	1.909	177.55	0.010	Not required			
0	WLAN		ļ	V	VWAN							
E*												

Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR	(W/kg) Separation		Simultaneous Transmission
		(W/kg)	х	у	Z	(vv/kg)	Distance (mm)		SAR Test
BC1	Top side	0.685	-1.00	5.25	-0.37	1.915	185.1	0.014	SPLSR<0.04,
WLAN Aux	Top side	1.230	-0.74	-13.26	-0.38	1.913	100.1	0.014	Not required
196									



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WLAN Main & WLAN Aux

VVLAIN Maili	VLAN Main & WLAN Aux												
Conditions	litions Position SAR Value (W/kg)		Cod	ordinates ((cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission				
		(W/kg)	х	у	Z	(vv/kg)	Distance (mm)		SAR Test				
WLAN Main	Back side	0.890	9.52	-3.28	-0.20	1.716	81.6	0.028	SPLSR<0.04,				
WLAN Aux	Dack side	0.826	9.68	-11.44	-0.21	1.710	01.0	0.020	Not required				
				WLAN Au	4	WLAN	Main						

Conditions	Position	SAR Value	Cod	ordinates ((cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission	
		(W/kg)	х	У	Z	(vv/kg)	Distance (mm)		SAR Test	
WLAN Main	Top side	1.020	-0.60	-3.96	-0.38	2.25	93.01	0.036	SPLSR<0.04,	
WLAN Aux	Top side	1.230	-0.74	-13.26	-0.38	2.20	95.01	0.030	Not required	

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WLAN Aux

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WLAN Main



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LTE FDD Band II + 5GHz WLAN MIMO

No	. Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
		Back side	0	1.051	0.890	0.826	2.767	Analyzed as below
22	LTE Band	Top side	0	0.579	1.020	1.230	2.829	Analyzed as below
22	2	Right side	0	0.260	0.400	0.400	1.06	ΣSAR<1.6, Not required
		Left side	0	0.114	0.400	0.220	0.734	ΣSAR<1.6, Not required

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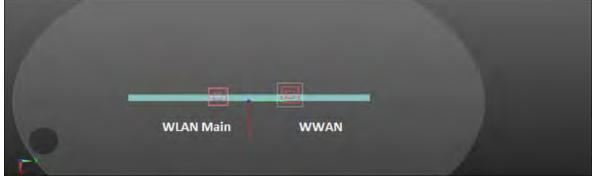


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WWAN & WI AN Main

WWAN & W	WWAN & WLAN Main												
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission				
		(W/kg)	х	у	Z	(VV/Kg)	Distance (mm)		SAR Test				
LTE B2	Back side	1.051	9.44	6.47	-0.20	1.941	97.5	0.028	SPLSR<0.04,				
WLAN Main	Dack side	0.890	9.52	-3.28	-0.20	1.541	07.0	0.020	Not required				
9			į	-					۰				
		WLAM IV	lain		WWAN								
													

Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	Х	у	Z	(vv/kg)	Distance (mm)		SAR Test
LTE B2	Top side	0.579	-0.85	5.10	-0.36	1.599	90.6	0.022	SPLSR<0.04,
WLAN Main	Top side	1.020	-0.60	-3.96	-0.38	1.599	90.0	0.022	Not required



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ΜΜΑΝ & ΜΙ ΔΝ Διιχ

WWAIN & W		•							
Conditions	Position	SAR Value (W/kg)	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
			х	у	Z	(W/Kg)	Distance (mm)		SAR Test
LTE B2	Back side	1.051	9.44	6.47	-0.20	1.877	179.12	0.014	SPLSR<0.04,
WLAN Aux	Dack Side	0.826	9.68	-11.44	-0.21	1.077	170.12	0.014	Not required
	WLAN A	=1	ļ	W	WAN				

Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	Х	У	Z	(vv/kg)	Distance (mm)		SAR Test
LTE B2	Top side	0.579	-0.85	5.10	-0.36	1.809	183.6	0.013	SPLSR<0.04,
WLAN Aux	Top side	1.230	-0.74	-13.26	-0.38	1.009	103.0	0.013	Not required
1									



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VALLANT Main 9 VALLANTA

WLAN Main	& WLAN	l Aux								
Conditions			Cod	ordinates ((cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission	
		(W/kg)	х	У	Z	(W/Kg)	Distance (mm)		SAR Test	
WLAN Main	Back side	0.890	9.52	-3.28	-0.20	1.716	81.6	0.028	SPLSR<0.04,	
WLAN Aux	Dack Side	0.826	9.68	-11.44	-0.21	1.710	01.0	0.020	Not required	
WLAN Aux WLAN Main										

Conditions			Cod	ordinates ((cm)	ΣSAR (W/kg) Peak Location Separation		SPLSR	Simultaneous Transmission		
		(W/kg)	Х	У	Z	(vv/kg)	Distance (mm)		SAR Test		
WLAN Main	Top side	1.020	-0.60	-3.96	-0.38	2.25	93.01	0.036	SPLSR<0.04,		
WLAN Aux	Top side	Top side 1.230		-13.26	-0.38	2.20	33.01	0.036	Not required		
F*	WLAN Aux WLAN Main										

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LTE FDD Band IV + 5GHz WLAN MIMO

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No	. Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
		Back side	0	1.225	0.890	0.826	2.941	Analyzed as below
23	LTE Band	Top side	0	0.639	1.020	1.230	2.889	Analyzed as below
20	4	Right side	0	0.291	0.400	0.400	1.091	ΣSAR<1.6, Not required
		Left side	0	0.125	0.400	0.220	0.745	ΣSAR<1.6, Not required

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WWAN & WI AN Main

VVVVAN & VV	LAIN IVIA	111							
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	, Separation SPL		Simultaneous Transmission
		(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test
LTE B4	Back side	1.225	9.28	6.47	-0.21	2.115	97.5	0.032	SPLSR<0.04,
WLAN Main	Dack Side	0.890	9.52	-3.28	-0.20	2.115	31.5 	0.032	Not required
9		WLAM M	ain	<u> </u>	WWAN				
-									

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ΜΜΑΝ & ΜΙ ΔΝ Διιχ

WWAN & W	LAIN AUX	(
Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(11/119)	Distance (mm)		SAR Test
LTE B4	Back side	1.225	9.28	6.47	-0.21	2.051	179.14	0.016	SPLSR<0.04,
WLAN Aux	Dack side	0.826	9.68	-11.44	-0.21	2.001	175.14	0.010	Not required
9	WLAN A								
F*	WLAN A	u A			WAN				

							Peak		
Conditions	Conditions Position		Coc	ordinates ((cm)	ΣSAR (W/kg)	Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(vv/kg)	Distance (mm)		SAR Test
LTE B4	Tanaida	0.639	-0.55	5.10	1.00	4.000	402.0	0.044	SPLSR<0.04,
WLAN Aux	Top side	1.230	-0.74	-13.26	-0.38	1.869	183.6	0.014	Not required
A									
0	WLAN A			Ī	WWAI	N			

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VALLANT Main 9 VALLANTA

WLAN Main	C VVL/ (I	1 / lux									
Conditions	Conditions Position			ordinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission		
		(W/kg)	х	у	Z	(vv/kg)	Distance (mm)		SAR Test		
WLAN Main	Back side	0.890	9.52	-3.28	-0.20	1.716	81.6	0.028	SPLSR<0.04,		
WLAN Aux	Dack side	0.826	9.68	-11.44	-0.21	1.710	01.0	0.020	Not required		
		9		(E		ļ					

Conditions Position		SAR Value	Cod	ordinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(vv/kg)	Distance (mm)		SAR Test
WLAN Main	Top side	1.020	-0.60	-3.96	-0.38	2.25	93.01	0.036	SPLSR<0.04,
WLAN Aux	Top side	p side 1.230		-13.26	-0.38	2.20	93.01	0.036	Not required
WLAN Aux 1.230 -0.74 -13.26 -0.38 WLAN Aux WLAN Main									

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LTE FDD Band V + 5GHz WLAN MIMO

=	THE FOR BUILD VICTORIAL WILLIAM											
N	o. Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR				
		Back side	0	1.258	0.890	0.826	2.974	Analyzed as below				
	LTE Band	Top side	0	0.667	1.020	1.230	2.917	Analyzed as below				
	5	Right side	0	0.099	0.400	0.400	0.899	ΣSAR<1.6, Not required				
		Left side	0	0.046	0.400	0.220	0.666	ΣSAR<1.6, Not required				

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WWAN & WI AN Main

WWAN & WLAN Main											
Conditions	Position	SAR Value	SCAP		Peak Location Separation	SPLSR	Simultaneous Transmission				
		(W/kg)	x	у	Z	(W/Kg)	Distance (mm)		SAR Test		
LTE B5	Back side	1.258	10.34	9.18	-0.20	2.148	124.9	0.025	SPLSR<0.04,		
WLAN Main	Back side	0.890	9.52	-3.28	-0.20	2.140	124.0	0.020	Not required		
	w	LAM Mai		W	WAN						

Conditions	SAR Position Value		Coo	rdinates	(cm)	ΣSAR (W/kg)	Separation SPLSR Trans	Simultaneous Transmission	
		(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test
LTE B5	Top side	0.667	-0.46	5.00	-0.51	1 687	122.1	0.018	SPLSR<0.04,
WLAN Main	Top side	1.020	-0.60	-3.96	-0.38	1.687	122.1	0.018	Not required
1									
	w	LAN Mai		W	WAN				
-									

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WWAN & WI AN Aux

	VVVAN & VVLAN Aux										
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission		
		(W/kg)	х	у	Z	(VV/Ng)	Distance (mm)		SAR Test		
LTE B5	Back side	1.258	10.34	9.18	-0.20	2.084	206.31	0.015	SPLSR<0.04,		
WLAN Aux	Dack side	0.826	9.68	-11.44	-0.21	2.004	200.01	0.013	Not required		
-	WLAN A	ux	1	w							

Conditions	Position SAR Value (W/kg)		Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
			Х	у	Z	(W/Kg)	Distance (mm)		SAR Test
LTE B5	Top side	0.667	-0.46	5.00	-0.51	1.897	215.1	0.012	SPLSR<0.04,
WLAN Aux	Top side	1.230	-0.74	-13.26	-0.38	1.097	210.1	0.012	Not required
		_		_					
WL		WAN							

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WLAN Main & WLAN Aux

WLAIN Maili	LAN Main & WLAN Aux											
Conditions	Position	SAR Value	Cod	ordinates ((cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission			
		(W/kg)	х	у	Z	(vv/kg)	Distance (mm)		SAR Test			
WLAN Main	Back side	0.890	9.52	-3.28	-0.20	1.716	81.6	0.028	SPLSR<0.04,			
WLAN Aux	Dack side	0.826	9.68	-11.44	-0.21	1.710	01.0	0.020	Not required			
			,	VLAN Au	4	WLAN	Main					
· · ·												

Conditions	Position	SAR Value	Cod	ordinates ((cm)	ΣSAR	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(W/kg)	Distance (mm)		SAR Test
WLAN Main	Top side	1.020	-0.60	-3.96	-0.38	2.25	93.01	0.036	SPLSR<0.04,
WLAN Aux	Top side	1.230	-0.74	-13.26	-0.38	2.20	33.01	0.000	Not required
			٧	VLAN Au		WLAN	Main		

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LTE FDD Band VII + 5GHz WLAN MIMO

=									
١	No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
			Back side	0	1.160	0.890	0.826	2.876	Analyzed as below
	25	LTE Band	Top side	0	0.562	1.020	1.230	2.812	Analyzed as below
ľ	23	7	Right side	0	0.677	0.400	0.400	1.477	ΣSAR<1.6, Not required
			Left side	0	0.042	0.400	0.220	0.662	ΣSAR<1.6, Not required

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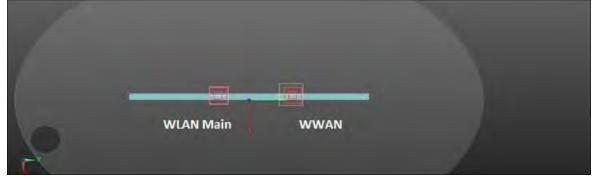


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WWAN & WI AN Main

۷۱	WWAN & WLAN Main											
	Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission		
			(W/kg)	х	у	Z	(VV/Kg)	Distance (mm)		SAR Test		
	LTE B7	Back side	1.160	9.08	5.84	-0.18	2.05	91.3	0.032	SPLSR<0.04,		
,	WLAN Main	Back side 0.8		9.52	-3.28	-0.20	2.00	31.3	0.032	Not required		
					E							
			WLAM M	ain	1	WWAN						
	→ ¥											

Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	Х	у	Z	(W/kg)	Distance (mm)		SAR Test
LTE B7	Top side	0.562	-0.64	5.42	-0.49	1.582	93.8	0.021	SPLSR<0.04,
WLAN Main	Top side	1.020	-0.60	-3.96	-0.38	1.302	90.0	0.021	Not required



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ΜΜΑΝ & ΜΙ ΔΝ Διιχ

WWAN & W	LAN Aux	`							
Conditions	Position	SAR Value	Cod	ordinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(VV/Rg)	Distance (mm)		SAR Test
LTE B7	Back side	1.160	9.08	5.84	-0.18	1.986	172.9	0.016	SPLSR<0.04,
WLAN Aux	Dack side	0.826	9.68	-11.44	-0.21	1.500	172.5	0.010	Not required
0									٦
1	WLAN	Aux		W	WAN				

Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	У	Z	(W/Kg)	Distance (mm)		SAR Test
LTE B7	Top side	0.562	-0.64	5.42	-0.49	1.792	186.8	0.013	SPLSR<0.04,
WLAN Aux	Top side	1.230	-0.74	-13.26	-0.38	1.752	100.0	0.010	Not required
	WLAN Au			<u> </u>		N			

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VALLANT Main 9 VALLANTA

WLAN Main	/LAN Main & WLAN Aux											
Conditions	Position	SAR Value	Cod	ordinates ((cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission			
		(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test			
WLAN Main	Back side	0.890	9.52	-3.28	-0.20	1.716	81.6	0.028	SPLSR<0.04,			
WLAN Aux	Dack side	0.826	9.68	-11.44	-0.21	1.710	01.0	0.020	Not required			
						ļ	+					
						D NO AN	Was to		1			
WLAN Aux WLAN Main												
T.												

Conditions	Position SAR Value (W/kg)		Cod	ordinates ((cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	Х	У	Z	(vv/kg)	Distance (mm)		SAR Test
WLAN Main	Top side	1.020	-0.60	-3.96	-0.38	2.25	93.01	0.036	SPLSR<0.04,
WLAN Aux	Top side	1.230	-0.74	-13.26	-0.38	2.23	93.01	0.030	Not required
			V	VLAN Au		WLAN	Main		
-v						VVLAIN	Iviaiii		

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LTE FDD Band XII + 5GHz WLAN MIMO

No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
		Back side	0	1.208	0.890	0.826	2.924	Analyzed as below
26	LTE Band	Top side	0	0.686	1.020	1.230	2.936	Analyzed as below
20	12	Right side	0	0.246	0.400	0.400	1.046	ΣSAR<1.6, Not required
		Left side	0	0.016	0.400	0.220	0.636	ΣSAR<1.6, Not required

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WWAN & WI AN Main

VV VV AIN & VV	L/ (I V IVIA	.1111							
Conditions	Position	SAR Value	Coo	rdinates ((cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	x	у	Z	(VV/Ng)	Distance (mm)		SAR Test
LTE B12	Back side	1.208	10.10	9.10	-0.24	2.438	123.9	0.031	SPLSR<0.04,
WLAN Main	Dack side	1.230	-0.74	-13.26	-0.38	2.400	120.5	0.031	Not required
	W	/LAM Ma	in	W	VAN				

Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	Х	У	Z	(VV/Kg)	Distance (mm)		SAR Test
LTE B12	Top side	0.686	0.00	12.50	-0.45	1.706	164.7	0.014	SPLSR<0.04,
WLAN Main	Top side	1.020	-0.60	-3.96	-0.38	1.700	104.7	0.014	Not required
_	_	a	_						
	WLAN	Main		WWAN					

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WWAN & WI AN Aux

VV VV AIN & VV		`							
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	x	у	Z	(vv/kg)	Distance (mm)		SAR Test
LTE B12	Back side	1.208	10.10	9.10	-0.24	2.034	205.44	0.014	SPLSR<0.04,
WLAN Aux	Dack Side	0.826	9.68	-11.44	-0.21	2.034	200.44	0.014	Not required
9	10		Ţ	-	1				
	WLAN Au	x		ww	AN				

Conditions	Position			rdinates	(cm)	ΣSAR	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	Х	у	Z	(W/kg)	Distance (mm)		SAR Test
LTE B12	Top side	0.686	0.00	12.50	-0.45	1.916	257.7	0.010	SPLSR<0.04,
WLAN Aux	Top side	1.230	-0.74	-13.26	-0.38	1.910	251.1	0.010	Not required



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WI AN Main & WI AN Aux

	VLAN Main & WLAN Aux										
Conditions	Position	SAR Value	Cod	ordinates ((cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission		
		(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test		
WLAN Main	Back side	0.890	9.52	-3.28	-0.20	1.716	81.6	0.028	SPLSR<0.04,		
WLAN Aux	Back side	0.826	9.68	-11.44	-0.21	1.710	01.0	0.020	Not required		
				15	ī						

Conditions	Position	SAR Value	Cod	ordinates ((cm)	ΣSAR	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	Х	У	Z	(W/kg)	Distance (mm)		SAR Test
WLAN Main	Top side	1.020	-0.60	-3.96	-0.38	2.25	93.01	0.036	SPLSR<0.04,
WLAN Aux	Top side	1.230	-0.74	-13.26	-0.38	2.20	33.01	0.000	Not required
			٧	VLAN Au		WLAN	Main		

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LTE FDD Band XIII + 5GHz WLAN MIMO

No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR
		Back side	0	1.176	0.890	0.826	2.892	Analyzed as below
27	LTE Band	Top side	0	0.639	1.020	1.230	2.889	Analyzed as below
21	13	Right side	0	0.179	0.400	0.400	0.979	ΣSAR<1.6, Not required
		Left side	0	0.069	0.400	0.220	0.689	ΣSAR<1.6, Not required

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WWAN & WI AN Main

<u> </u>	VVAN & VLAN Wall										
Conditions	Position	SAR Value	Cool	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission		
		(W/kg)	x	у	Z	(W/Kg)	Distance (mm)		SAR Test		
LTE B13	Back side	1.176	10.60	9.02	-0.19	2.066	123.5	0.024	SPLSR<0.04,		
WLAN Main	Dack side	0.890	9.52	-3.28	-0.20	2.000	120.0	0.024	Not required		
	W	/LAM Ma		w							

Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	Х	у	Z	(W/Kg)	Distance (mm)		SAR Test
LTE B13	Top side	0.639	-0.41	8.72	-0.49	1.659	126.8	0.017	SPLSR<0.04,
WLAN Main	Top side	1.020	-0.60	-3.96	-0.38	1.059	120.0	0.017	Not required
1									
				-					
	WI	AN Mair		ww	VAN				
-									

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WWAN & WLAN Aux

77777114 W 77	VVVAN & VVLAN AUX											
Conditions	Position	SAR Value	Coo	rdinates ((cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission			
		(W/kg)	x	У	Z	(vv/kg)	Distance (mm)		SAR Test			
LTE B13	Back side	1.176	10.60	9.02	-0.19	2.002	204.83	0.014	SPLSR<0.04,			
WLAN Aux	Dack Side	0.826	9.68	-11.44	-0.21	2.002	204.00	0.014	Not required			
	WLAN Au	×	1	ww								

Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	Х	у	Z	(Tring)	Distance (mm)		SAR Test
LTE B13	Top side	0.639	-0.41	8.72	-0.49	1.869	219.8	0.012	SPLSR<0.04,
WLAN Aux	Top side	1.230	-0.74	-13.26	-0.38	1.009	219.0	0.012	Not required
Q WL	AN Aux				VAN				

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VALLANT Main 9 VALLANTA

WLAN Main	/LAN Main & WLAN Aux										
Conditions	Position	SAR Value	Cod	ordinates ((cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission		
		(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test		
WLAN Main	Back side	0.890	9.52	-3.28	-0.20	1.716	81.6	0.028	SPLSR<0.04,		
WLAN Aux	Dack side	0.826	9.68	-11.44	-0.21	1.710	01.0	0.020	Not required		
						ļ	+				
						D NO AN	Was to		1		
No.			V	VLAN Au	x	WLAN	wain				
T.											

_										
	Conditions	Position	SAR Value	Cod	ordinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
			1.020	х	у	Z	(vv/kg)	Distance (mm)		SAR Test
	WLAN Main	Top side	1.020	-0.60	-3.96	-0.38	2.25	93.01	0.036	SPLSR<0.04,
	WLAN Aux	Top side	1.230	-0.74	-13.26	-0.38	2.20	33.01	0.000	Not required
	F*			V	VLAN Au	×	WLAN	Main		

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LTE FDD Band XVII + 5GHz WLAN MIMO

No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	Max. WLAN Aux	SAR Sum	SPLSR					
		Back side	0	1.257	0.890	0.826	2.973	Analyzed as below					
28	LTE Band	Top side	0	0.712	1.020	1.230	2.962	Analyzed as below					
20	17	Right side	0	0.240	0.400	0.400	1.040	ΣSAR<1.6, Not required					
		Left side	0	0.007	0.400	0.220	0.627	ΣSAR<1.6, Not required					

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WWAN & WI AN Main

	VVVAIN & VVLAIN IVIAIIT										
Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission		
		(W/kg)	(W/kg) x y z Distance (mm)		Distance (mm)		SAR Test				
LTE B17	Back side	1.257	9.43	7.18	-0.27	2.147	104.6	0.030	SPLSR<0.04,		
WLAN Main	Dack Side	0.890	9.52	-3.28	-0.20	2.147	104.0	0.030	Not required		
-v	W	VLAM Ma	in	W	WAN						

Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	Х	у	Z	(VV/Kg)	Distance (mm)		SAR Test
LTE B17	Top side	0.712	-0.55	12.45	-0.46	1.732	164.1	0.014	SPLSR<0.04,
WLAN Main	Top side	1.020	-0.60	-3.96	-0.38	1.732	104.1	0.014	Not required



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WWAN & WI AN Aux

Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
	(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test
Back side	1.257	9.43	7.18	-0.27	2 083	186 22	0.016	SPLSR<0.04,
Dack Side	0.826	9.68	-11.44	-0.21	2.003	100.22	0.010	Not required
	h-	Ť	-					۰
WLAN A	ux		WV	VAN				
TE B17 Back side 1.257 9.43 7.18 -0.27 LAN Aux 0.826 9.68 -11.44 -0.21						Position Value (W/kg) x y z (W/kg) Back side 1.257 9.43 7.18 -0.27 2.083 0.826 9.68 -11.44 -0.21	Position Value (W/kg) X y z (W/kg) Separation Distance (mm) 1.257 9.43 7.18 -0.27 2.083 186.22	Position Value (W/kg) x y z (W/kg) Separation Distance (mm) Back side 0.826 9.68 -11.44 -0.21 2.083 186.22 0.016

Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(vv/kg)	Distance (mm)		SAR Test
LTE B17	Top side	0.712	-0.55	12.45	-0.46	1.942	257.1	0.011	SPLSR<0.04,
WLAN Aux	Top side	1.230	-0.74	-13.26	-0.38	1.042	207.1	0.011	Not required
			_						
WLAN AL	ıx			WWAN					

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WI AN Main & WI AN Aux

WLAN Main	VLAN Main & WLAN Aux											
Conditions	Position	SAR Value	Cod	ordinates ((cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission			
		(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test			
WLAN Main	Back side	0.890	9.52	-3.28	-0.20	1.716	81.6	0.028	SPLSR<0.04,			
WLAN Aux	Dack side	0.826	9.68	-11.44	-0.21	1.710	01.0	0.020	Not required			
						ļ	+					
						D NO AN	Was to		1			
WLAN Aux WLAN Main												

Conditions	Position	SAR Value	Cod	ordinates ((cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	Х	У	Z	(W/Kg)	Distance (mm)		SAR Test
WLAN Main	Top side	1.020	-0.60	-3.96	-0.38	2.25	93.01	0.036	SPLSR<0.04,
WLAN Aux	Top side	1.230	-0.74	-13.26	-0.38	2.20	33.01	0.000	Not required
			٧	VLAN Au		WLAN	Main	-	
- v		1							

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GPRS 850 + 2.4GHz WLAN Main + BT

<u> </u>	10 000 1 2.40112 WEAR Mail 1 B1												
No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	ВТ	SAR Sum	SPLSR					
		Back side	0	1.249	0.961	0.440	2.650	Analyzed as below					
29	GPRS 850	Top side	0	0.609	0.349	0.260	1.218	ΣSAR<1.6, Not required					
29	GPK3 650	Right side	0	0.184	0.400	0.400	0.984	ΣSAR<1.6, Not required					
		Left side	0	0.114	0.400	0.110	0.624	ΣSAR<1.6, Not required					

WWAN & W	VWAN & WLAN Main												
Conditions	Position	SAR Value	Coordinates (cm)			cm) ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission				
		(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test				
GPRS 850	Back side	1.249	10.34	9.18	-0.22	2.21	119.37	0.028	SPLSR<0.04,				
WLAN Main	Dack Side	0.961	9.70	-2.74	-0.24	2.21	119.57	0.020	Not required				
			1	=									



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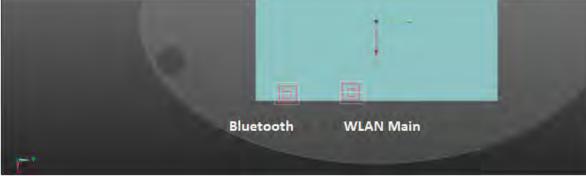
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WWAN & BT

Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	Х	у	Z	(W/kg)	Distance (mm)		SAR Test
GPRS 850	Back side	1.249	10.34	9.18	-0.22	1.689	203.7	0.011	SPLSR<0.04,
ВТ	Daoit olao	0.440	9.82	-11.18	-0.19	1.000	200.1	0.011	Not required
F*	BT 0.440 9.82 Bluetooth								

WI AN Main & BT

VVLAIN IVIAIII	αυι								
Conditions	Position	SAR Value	Coo	ordinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	Х	У	Z	(W/Kg)	Distance (mm)		SAR Test
WLAN Main	Back side	0.961	9.70	-2.74	-0.24	1.401	84.4	0.020	SPLSR<0.04,
ВТ	Dack Side	0.440	9.82	-11.18	-0.19	1.401	04.4	0.020	Not required
	7								



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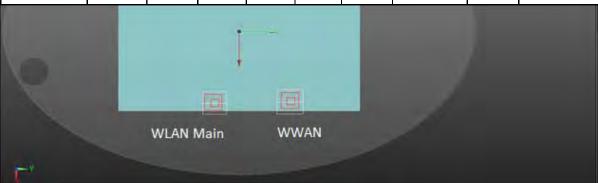
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GPRS 1900 + 2.4GHz WLAN Main + BT

No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	ВТ	SAR Sum	SPLSR
	GPRS 1900	Back side	0	1.136	0.961	0.440	2.537	Analyzed as below
30		Top side	0	0.653	0.349	0.260	1.262	ΣSAR<1.6, Not required
30		Right side	0	0.393	0.400	0.400	1.193	ΣSAR<1.6, Not required
		Left side	0	0.157	0.400	0.110	0.667	ΣSAR<1.6, Not required

WWAN & WLAN Main

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR	Peak Location Separation	SPLSR	Simultaneous Transmission
			х	у	Z	(W/kg)	Distance (mm)		SAR Test
GPRS 1900	Back side	1.136	9.29	6.46	-0.21	2.097	92.09	0.033	SPLSR<0.04, Not required
WLAN Main		0.961	9.70	-2.74	-0.24				



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WWAN & B	<u> </u>									
Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission	
	Back side	(W/kg)	х	у	Z	1.576	Distance (mm)	0.011	SAR Test SPLSR<0.04,	
GPRS 1900		1.136	9.29	6.46	-0.21					
ВТ	Dack side	0.440	9.82	-11.18	-0.19	1.570	170.0	0.011	Not required	
	ļ									
Bluetooth WWAN										

١	WLAN Main & BT										
	Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission	
				х	У	Z	(W/Ng)	Distance (mm)		SAR Test	
	WLAN Main	- Back side	0.961	9.70	-2.74	-0.24	1.401	84.4	0.020	SPLSR<0.04,	
Į	ВТ	Buok oldo	0.440		-11.18	-0.19	1.101	0 1	0.020	Not required	
	Bluetooth WLAN Main										

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WCDMA Band II + 2.4GHz WLAN Main + BT

	Dana II + 2.40112 WEAN Mail + D1											
No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	ВТ	SAR Sum	SPLSR				
		Back side	0	1.025	0.961	0.440	2.426	Analyzed as below				
31	WCDMA	Top side	0	0.577	0.349	0.260	1.186	ΣSAR<1.6, Not required				
31	B2	Right side	0	0.186	0.400	0.400	0.986	ΣSAR<1.6, Not required				
		Left side	0	0.154	0.400	0.110	0.664	ΣSAR<1.6, Not required				

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WWAN & WLAN Main											
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission		
		(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test		
WCDMA B2	Rack side	1.025	9.44	6.31	-0.17	1.986	90.54	0.031	SPLSR<0.04,		
WLAN Main	WLAN Main Back side 0.961				-0.24	1.500	30.04	0.001	Not required		
		WLAN N	Vain	W	WAN						

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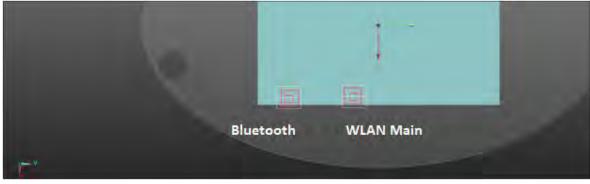
WWAN & BT

*****		=								
Conditions	Position	(\/\/\ka\)		Peak Location Separation	SPLSR	Simultaneous Transmission				
			(W/kg)	х	у	Z	(vv/kg)	Distance (mm)		SAR Test
WCDMA	B2	Back sid	1.025	9.44	6.31	-0.17	1.465	174.9	0.010	SPLSR<0.04,
ВТ		Dack Sit	0.440	9.82	-11.18	-0.19	1.403	174.5	0.010	Not required



WLAN Main & BT

Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	У	Z	(vv/kg)	Distance (mm)		SAR Test
WLAN Main	Back side	0.961	9.70	-2.74	-0.24	1.401	84.4	0.020	SPLSR<0.04,
ВТ	Dack Side	0.440	9.82	-11.18	-0.19	1.401	04.4	0.020	Not required



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WCDMA Band IV + 2.4GHz WLAN Main + BT

	TODINA BUILD IT LITTIE WEAR MUIII BI											
No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	ВТ	SAR Sum	SPLSR				
		Back side	0	1.223	0.961	0.440	2.624	Analyzed as below				
32	WCDMA	Top side	0	0.613	0.349	0.260	1.222	ΣSAR<1.6, Not required				
32	B4	Right side	0	0.386	0.400	0.400	1.186	ΣSAR<1.6, Not required				
		Left side	0	0.085	0.400	0.110	0.595	ΣSAR<1.6, Not required				

WWAN & WLAN Main												
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission			
		(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test			
WCDMA B4	Back side			6.31	-0.17	2.184	90.54	0.036	SPLSR<0.04,			
WLAN Main	Back side	0.961	9.70 -2.74		-0.24	2.104	30.04	0.030	Not required			
		WLAN I	Main WWAN									

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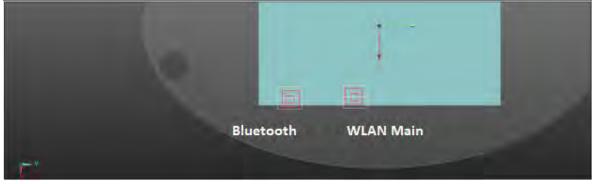
WWAN & BT

Conditions Po	Position	SAR Value	Coc	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	Х	У	Z	(vv/kg)	Distance (mm)		SAR Test
WCDMA B4	Back side	1.223	9.43	6.31	-0.17	1.663	174.9	0.012	SPLSR<0.04,
ВТ	Dack Side	0.440	9.82	-11.18	-0.19	1.003	174.9	0.012	Not required



WLAN Main & BT

Conditions	Position	SAR Value	Cod	ordinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	Х	У	Z	(vv/kg)	Distance (mm)		SAR Test
WLAN Main	Back side	0.961	9.70	-2.74	-0.24	1.401	84.4	0.020	SPLSR<0.04,
ВТ	Dack Side	0.440	9.82	-11.18	-0.19	1.401	04.4	0.020	Not required



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WCDMA Band V + 2.4GHz WLAN Main + BT

	ODNIA Band V + 2.40112 WEAR Main + B1											
No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	ВТ	SAR Sum	SPLSR				
		Back side	0	1.178	0.961	0.440	2.579	Analyzed as below				
33	WCDMA	Top side	0	0.667	0.349	0.260	1.276	ΣSAR<1.6, Not required				
33	B5	Right side	0	0.141	0.400	0.400	0.941	ΣSAR<1.6, Not required				
		Left side	0	0.056	0.400	0.110	0.566	ΣSAR<1.6, Not required				

WWAN & WLAN Main											
Conditions	Position	SAR Value	Coor	dinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission		
		(W/kg)	х	у	Z	(VV/Kg)	Distance (mm)		SAR Test		
WCDMA B5	Back side	1.178	10.34	9.02	-0.23	2.139	117.77	0.027	SPLSR<0.04,		
WLAN Main	Back side	0.961	9.70	-2.74	-0.24	2.100	117.77	0.027	Not required		
- *		WLAN M		W							

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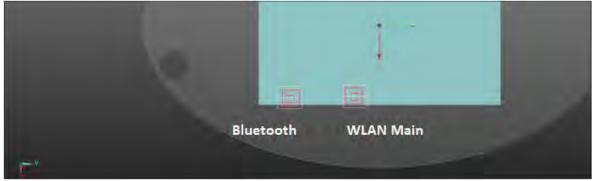
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WWAIN & B	<u> </u>								
Conditions			SAR Coordinates (cm) Value (W/kg)			ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
			х	у	Z	(vv/kg)	Distance (mm)		SAR Test
WCDMA B5	-Back side	1.178	10.34	9.02	-0.23	1.618	202.1	0.010	SPLSR<0.04,
ВТ	Dack side	0.440	9.82	-11.18	-0.19	1.010	202.1	0.010	Not required
	Blueto	oth	1	ww					
Land in									

WLAN Main & BT

TTE/ (IT IVIAII)									
Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation		Simultaneous Transmission
		(W/kg)	Х	У	Z	(vv/kg)	Distance (mm)		SAR Test
WLAN Main	Back side	0.961	9.70	-2.74	-0.24	1.401	84.4	0.020	SPLSR<0.04,
ВТ	Dack Side	0.440	9.82	-11.18	-0.19	1.401	04.4	0.020	Not required



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CDMA BC0 + 2.4GHz WLAN Main + BT

	ODMA DOO 1 2.40112 WEAR MAIN 1 D1											
No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	ВТ	SAR Sum	SPLSR				
		Back side	0	1.143	0.961	0.440	2.544	Analyzed as below				
34	BC0	Top side	0	0.576	0.349	0.260	1.185	ΣSAR<1.6, Not required				
34	ВСО	Right side	0	0.029	0.400	0.400	0.829	ΣSAR<1.6, Not required				
		Left side	0	0.010	0.400	0.110	0.520	ΣSAR<1.6, Not required				

WWAN & WLAN Main											
Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission		
		(W/kg)	x	у	Z	(W/Ng)	Distance (mm)		SAR Test		
BC0	Back side	1.143	10.49	9.18	-0.20	2.104	119.46	0.026	SPLSR<0.04,		
WLAN Main	Dack Side	0.961	9.70	-2.74	-0.24	2.104	119.40	0.020	Not required		
- γ	WLAN Main WWAN										

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MANANIO DT

WWAN & BT										
Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission	
		(W/kg)	х	У	z	(VV/Kg)	Distance (mm)		SAR Test	
BC0	Back side	1.143	10.49	9.18	-0.20	1.583	203.7	0.010	SPLSR<0.04,	
ВТ	Dack side	0.440	9.82	-11.18	-0.19	1.000	200.1	0.010	Not required	
	oth	1	WWA							
- v										

Simultaneous Transmission
SAR Test
SPLSR<0.04,
Not required

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CDMA BC1 + 2.4GHz WLAN Main + BT

No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	ВТ	SAR Sum	SPLSR										
		Back side	0	1.270	0.961	0.440	2.671	Analyzed as below										
35	BC1	Top side	0	0.685	0.349	0.260	1.294	ΣSAR<1.6, Not required										
33		DC I	БСТ	БОТ	БОТ	БСТ	BC1	BC1	BC1	BC1	BC1	Right side	0	0.050	0.400	0.400	0.85	ΣSAR<1.6, Not required
		Left side	0	0.017	0.400	0.110	0.527	ΣSAR<1.6, Not required										

WWAN & WLAN Main

Conditions	Position	SAR Value (W/kg)	Cooi	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission	
			х	у	Z				SAR Test	
BC1	Back side	1.270	9.28	6.31	-0.18	2.231	90.6	0.037	SPLSR<0.04,	
WLAN Main	Back side	Back side	0.961	9.70	-2.74	-0.24	2.201	30.0	0.037	Not required



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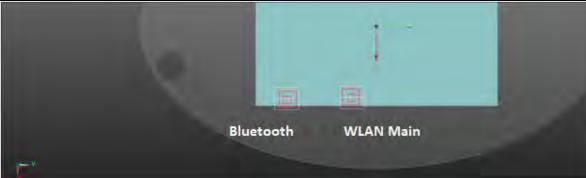
WWAN & BT

	Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
			(W/kg)	х	У	Z	(vv/kg)	Distance (mm)		SAR Test
	BC1	Back side	1.270	9.28	6.31	-0.18	1 71	175	0.013	SPLSR<0.04,
	ВТ	Back side	0.440	9.82	-11.18	-0.19	1.71	1/5	0.013	Not required



WLAN Main & BT

Conditions	Position	osition SAR Value (W/kg)	Coordinates (cm)			ΣSAR	Peak Location Separation	SPLSR	Simultaneous Transmission
			Х	У	Z	(W/kg)	Distance (mm)		SAR Test
WLAN Main	Back side	0.961	9.70	-2.74	-0.24	1.401	84.4	0.020	SPLSR<0.04,
ВТ	Dack Side	0.440	9.82	-11.18	-0.19	1.401	04.4	0.020	Not required



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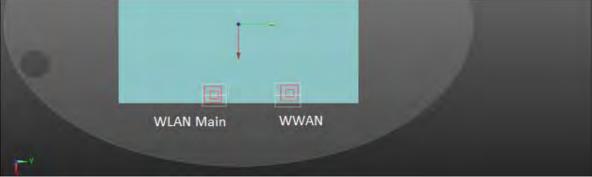


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LTE FDD Band II + 2.4GHz WLAN Main + BT

No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	ВТ	SAR Sum	SPLSR				
		Back side	0	1.051	0.961	0.440	2.452	Analyzed as below				
36	LTE Band	Top side	0	0.579	0.349	0.260	1.188	ΣSAR<1.6, Not required				
30	2	2	Right side	0	0.260	0.400	0.400	1.060	ΣSAR<1.6, Not required			
		Left side	0	0.114	0.400	0.110	0.624	ΣSAR<1.6, Not required				

WWAN & W	LAN Mai	n							
Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
			Х	у	Z	(VV/Kg)	Distance (mm)		SAR Test
LTE B2	Back side	1.051	9.44	6.47	-0.20	2.012	92.14	0.031	SPLSR<0.04,
WLAN Main	Dack Side	0.961	9.70	-2.74	-0.24	2.012	32.14	0.031	Not required
			1	-					
V									



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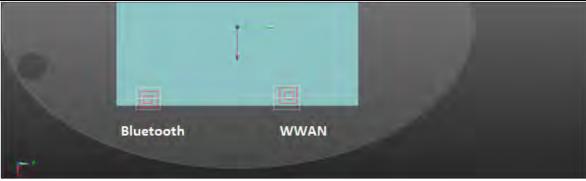
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WWAN & BT

Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation		Simultaneous Transmission
		(W/kg)	Х	У	Z	(vv/kg)	Distance (mm)		SAR Test
LTE B2	Back side	1.051	9.44	6.47	-0.20	1.491	176.5	0.010	SPLSR<0.04,
ВТ	Dack Side	0.440	9.82	-11.18	-0.19	1.491	170.5	0.010	Not required



WLAN Main & BT

Conditions	Position	SAR Value	Coo	Coordinates (cm)			Peak Location Separation		Simultaneous Transmission
		(W/kg)	х	у	Z	(W/kg)	Distance (mm)		SAR Test
WLAN Main	Back side	0.961	9.70	-2.74	-0.24	1.401	84.4	0.020	SPLSR<0.04,
ВТ	Dack Side	0.440	9.82	-11.18	-0.19	1.401	04.4	0.020	Not required



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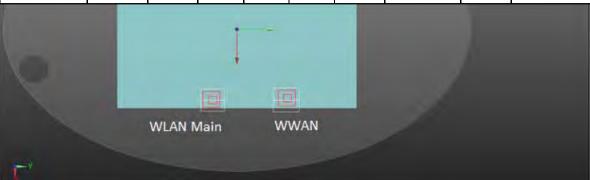
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LTE FDD Band IV + 2.4GHz WLAN Main + BT

	DD Dai	<u> </u>	1011E 11		<u> </u>			
No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	ВТ	SAR Sum	SPLSR
		Back side	0	1.225	0.961	0.440	2.626	Analyzed as below
37	LTE Band	Top side	0	0.639	0.349	0.260	1.248	ΣSAR<1.6, Not required
31	4	Right side	0	0.291	0.400	0.400	1.091	ΣSAR<1.6, Not required
		Left side	0	0.125	0.400	0.110	0.635	ΣSAR<1.6, Not required

WWAN & WLAN Main

Conditions	Position	SAR Value	Cooi	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z				SAR Test
LTE B4	Back side	1.225	9.28	6.47	-0.21	2.186	92.2	0.035	SPLSR<0.04,
WLAN Main	Dack Side	0.961	9.70	-2.74	-0.24	2.100	92.2	0.033	Not required



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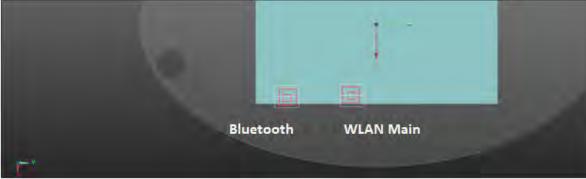
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\M\M\AN & RT

WWAN & B	VVVAN & BI												
Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission				
		(W/kg)	х	У	Z	(W/Kg)	Distance (mm)		SAR Test				
LTE B4	Back side	1.225	9.28	6.47	-0.21	1.665	176.6	0.012	SPLSR<0.04,				
ВТ	Back side	0.440	9.82	-11.18	-0.19	1.000	170.0	0.012	Not required				
9	1		1										
	Blue	tooth		W	WAN								

WI AN Main & RT

VVE/ (I VIGII	LAN IVIAIII & B I											
Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission			
		(W/kg)	х	У	Z	(vv/kg)	Distance (mm)		SAR Test			
WLAN Main	- Back side	0.961	9.70	-2.74	-0.24	1.401	84.4	0.020	SPLSR<0.04,			
ВТ	Dack Side	0.440	9.82	-11.18	-0.19	1.401	04.4	0.020	Not required			



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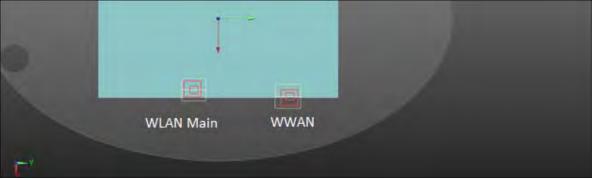


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LTE FDD Band V + 2.4GHz WLAN Main + BT

	TE 1 DD Bana V 1 2.40112 WEAR Main 1 D1										
No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	ВТ	SAR Sum	SPLSR			
		Back side	0	1.258	0.961	0.440	2.659	Analyzed as below			
38	LTE Band	Top side	0	0.667	0.349	0.260	1.276	ΣSAR<1.6, Not required			
36	5	Right side	0	0.099	0.400	0.400	0.899	ΣSAR<1.6, Not required			
		Left side	0	0.046	0.400	0.110	0.556	ΣSAR<1.6, Not required			

<u> </u>	LAN Mai	n							
Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	x	у	Z	(VV/Kg)	Distance (mm)		SAR Test
LTE B5	Back side	1.258	10.34	9.18	-0.20	2.219	119.37	0.028	SPLSR<0.04,
WLAN Main	Dack Side	0.961	9.70	-2.74	-0.24	2.219	119.57	0.028	Not required
			-	=					



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MANANIO DT

WWAN & B	<u> </u>								
Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(VV/Kg)	Distance (mm)		SAR Test
LTE B5	Back side	1.258	10.34	9.18	-0.20	1.698	203.7	0.011	SPLSR<0.04,
ВТ	Dack side	0.440	9.82	-11.18	-0.19	1.000	200.7	0.011	Not required
			1						
			_	1		٠.			
	Blueto	oth		ww	AN				
- V									

WI AN Main & BT

VVL/AIN IVIAIII	_AIN Mail & B I											
Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission			
		(W/kg)		У	Z	(vv/kg)	Distance (mm)		SAR Test			
WLAN Main	Back side	0.961	9.70	-2.74	-0.24	1.401	84.4	0.020	SPLSR<0.04,			
ВТ	Dack Side	0.440	9.82	-11.18	-0.19	1.401	04.4	0.020	Not required			
1												



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LTE FDD Band VII + 2.4GHz WLAN Main + BT

	. 	<u> </u>		LAN Man				
No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	ВТ	SAR Sum	SPLSR
		Back side	0	1.160	0.961	0.440	2.561	Analyzed as below
39	LTE Band	Top side	0	0.562	0.349	0.260	1.171	ΣSAR<1.6, Not required
39	7	Right side	0	0.677	0.400	0.400	1.477	ΣSAR<1.6, Not required
		Left side	0	0.042	0.400	0.110	0.552	ΣSAR<1.6, Not required

WWAN & WI AN Main

<u>WWAN & W</u>	WAN & WLAN Main												
Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission				
			х	у	Z	(vv/kg)	Distance (mm)		SAR Test				
LTE B7	Back side	1.160	9.08	5.84	-0.18	2.121	86.03	0.036	SPLSR<0.04,				
WLAN Main	Dack Side	0.961	9.70	-2.74	-0.24	2.121	00.03	0.030	Not required				
				-									



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WWAN & BT

VVVVAIN & D	!								
Conditions	Position	SAR Value	Coo	ordinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	x	у	Z	(VV/Kg)	Distance (mm)		SAR Test
LTE B7	Back side	1.160	9.08	5.84	-0.18	1.6	170.4	0.012	SPLSR<0.04,
ВТ	Dack side	0.440	9.82	-11.18	-0.19	1.0	170.4	0.012	Not required
9						ı			
	Bluet	tooth		w	WAN				

WLAN Main	& BT								
Conditions	Position	SAR Value	Coo	ordinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	(W/kg) x y z		Distance (mm)		SAR Test		
WLAN Main	Back side	0.961	9.70	-2.74	-0.24	1.401	84.4	0.020	SPLSR<0.04,
ВТ	Dack Side	0.440	9.82	-11.18	-0.19	1.401	04.4	0.020	Not required
						1	-		
r-v			В	luetootl	•	WLAN	Main		

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LTE FDD Band XII + 2.4GHz WLAN Main + BT

	TET DD Baild XII 1 2.7012 WEAR Mail 1 D1												
No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	ВТ	SAR Sum	SPLSR					
		Back side	0	1.208	0.961	0.440	2.609	Analyzed as below					
40	LTE Band	Top side	0	0.686	0.349	0.260	1.295	ΣSAR<1.6, Not required					
40	12	Right side	0	0.246	0.400	0.400	1.046	ΣSAR<1.6, Not required					
		Left side	0	0.016	0.400	0.110	0.526	ΣSAR<1.6, Not required					

WWAN & W	<u>'LAN Mai</u>	n							
Conditions	Position	SAR Value	Cool	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test
LTE B12	-Back side	1.208	10.10	9.10	-0.24	2.169	118.47	0.027	SPLSR<0.04,
WLAN Main	Daok sids	0.961	9.70	-2.74	-0.24	2.100			Not required
		WLAN M	Main	W	II WAN				

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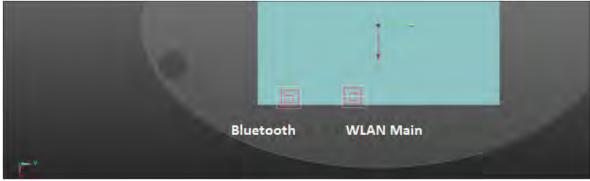


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\M\M\AN & RT

WLAN Main & BT

TO IT WAIT OF												
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission			
		(W/kg)	Х	у	Z	(vv/kg)	Distance (mm)		SAR Test			
WLAN Main	Back side	0.961	9.70	-2.74	-0.24	1.401	84.4	0.020	SPLSR<0.04,			
ВТ		0.440	9.82	-11.18	-0.19	1.401	04.4	0.020	Not required			



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I TF FDD Band XIII + 2 4GHz WI AN Main + BT

	TE I DD Balla XIII + 2.40112 WEAN Maill + B1												
No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	ВТ	SAR Sum	SPLSR					
		Back side	0	1.176	0.961	0.440	2.577	Analyzed as below					
41	LTE Band	Top side	0	0.639	0.349	0.260	1.248	ΣSAR<1.6, Not required					
41	13	Right side	0	0.179	0.400	0.400	0.979	ΣSAR<1.6, Not required					
		Left side	0	0.069	0.400	0.110	0.579	ΣSAR<1.6, Not required					

WWAN & W	LAN Mai	in							
Conditions	Position	SAR Value	Value SSAI		ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission	
		(W/kg)	х	у	Z	(W/Ng)	Distance (mm)		SAR Test
LTE B13	Back side	1.176	10.60	9.02	-0.19	2.137	117.98	0.026	SPLSR<0.04,
WLAN Main	Dack Side	0.961	9.70	-2.74	-0.24	2.107	117.50	0.020	Not required
9		E							
	1								

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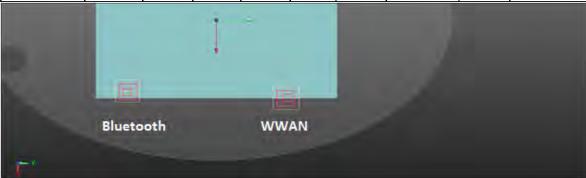
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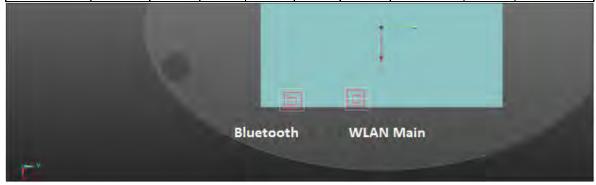
WWAN & BT

Conditions	Position	SAR Value	Coo	rdinates ((cm)	ΣSAR (M/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	x	у	Z	(W/kg)	Distance (mm)		SAR Test
LTE B13	Back side	1.176	10.60	9.02	-0.19	1.616	202.2	0.010	SPLSR<0.04,
ВТ	Back side	0.440	9.82	-11.18	-0.19	1.010	202.2	0.010	Not required



WLAN Main & BT

	Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation		Simultaneous Transmission
			(W/kg)	Х	у	Z	(vv/kg)	Distance (mm)		SAR Test
	WLAN Main	Back side	0.961	9.70	-2.74	-0.24	1.401	84.4	0.020	SPLSR<0.04,
	ВТ	Dauk Side	0.440	9.82	-11.18	-0.19	1.401	04.4	0.020	Not required



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LTE FDD Band XVII + 2.4GHz WLAN Main + BT

	TIE I DD Baild XVII + 2:40112 WEAN Mail + B1												
No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	ВТ	SAR Sum	SPLSR					
		Back side	0	1.257	0.961	0.440	2.658	Analyzed as below					
42	LTE Band	Top side	0	0.712	0.349	0.260	1.321	ΣSAR<1.6, Not required					
42	17	Right side	0	0.240	0.400	0.400	1.04	ΣSAR<1.6, Not required					
		Left side	0	0.007	0.400	0.110	0.517	ΣSAR<1.6, Not required					

WWAN & W	LAN Ma	in							
Conditions	Position	SAR Value	Cool	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(W/Ng)	Distance (mm)		SAR Test
LTE B17	Back side	1.257	9.43	7.18	-0.27	2.218	99.24	0.033	SPLSR<0.04,
WLAN Main	Dack Side	0.961	9.70	-2.74	-0.24	2.210	33.24	0.000	Not required
		WLAN N	Main	W	WAN				

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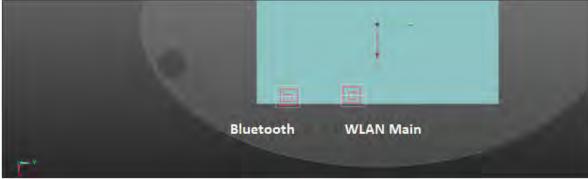
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\/\\/\AN & RT

WWAIN & B	•								
Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(VV/Ng)	Distance (mm)		SAR Test
LTE B17	Back side	1.257	9.43	7.18	-0.27	1.697	183.6	0.012	SPLSR<0.04,
ВТ	Dack side	0.440	9.82	-11.18	-0.19	1.037	100.0	0.012	Not required
	Bluet		Ţ	ww	VAN				

WI AN Main & BT

VVE AT MAIN CO.												
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (M/kg)	Peak Location Separation		Simultaneous Transmission			
		(W/kg)	Х	у	Z	(W/kg)	Distance (mm)		SAR Test			
WLAN Main	Back side	0.961	9.70	-2.74	-0.24	1.401	84.4	0.020	SPLSR<0.04,			
ВТ		0.440	9.82	-11.18	-0.19	1.401	04.4	0.020	Not required			



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GPRS 850 + 5GHz WLAN Main + BT

No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	ВТ	SAR Sum	SPLSR
		Back side	0	1.249	0.890	0.440	2.579	Analyzed as below
13	43 GPRS 850	Top side	0	0.609	1.020	0.260	1.889	Analyzed as below
43		Right side	0	0.184	0.400	0.400	0.984	ΣSAR<1.6, Not required
		Left side	0	0.114	0.400	0.110	0.624	ΣSAR<1.6, Not required

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WWAN & WI AN Main

11117 (11 Ca 11	WWWAIN & WEATH Main											
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission			
		(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test			
GPRS 850	Back side	1.249	10.34	9.18	-0.22	2.139	124.9	0.025	SPLSR<0.04,			
WLAN Main	Back side	0.890	9.52	-3.28	-0.20	2.100	124.0	0.020	Not required			
	WI	AM Mair		wv								

Conditions	Position	SAR Value	Cool	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	Х	у	Z	(vv/kg)	Distance (mm)		SAR Test
GPRS 850	Top side	0.609	-0.40	8.10	-0.50	1.629	120.6	0.017	SPLSR<0.04,
WLAN Main	Top side	1.020	-0.60	-3.96	-0.38	1.029	120.0	0.017	Not required



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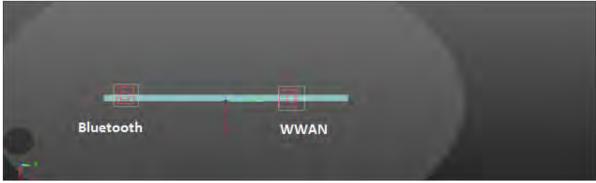


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WWAN & BT

WWAIN & B	l								
Conditions	Position	SAR Value	Cod	ordinates ((cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test
GPRS 850	Back side	1.249	10.34	9.18	-0.22	1.689	203.7	0.011	SPLSR<0.04,
ВТ	Dack Side	0.440	9.82	-11.18	-0.19	1.005	200.1	0.011	Not required
E*	Bluetoot	th	1	W	WAN				

Conditions	Position	SAR Value	Coc	ordinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	У	Z	(vv/kg)	Distance (mm)		SAR Test
GPRS 850	Top side	0.609	-0.40	8.10	-0.50	0.869	205.83	0.004	SPLSR<0.04,
ВТ	Top side	0.260	-0.70	-12.48	-0.35	0.009	203.03	0.004	Not required



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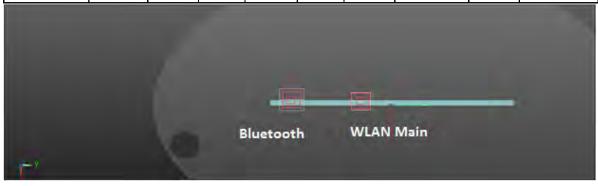
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WLAN Main & BT

Conditions	Position	SAR Value	Cod	ordinates ((cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(VV/Kg)	Distance (mm)		SAR Test
WLAN Main	Back side	0.890	9.52	-3.28	-0.20	1.33	79.06	0.019	SPLSR<0.04,
ВТ	Dack Side	0.440	9.82	-11.18	-0.19	1.33	79.00	0.019	Not required



Conditions	Position	SAR Value	Cod	ordinates ((cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test
WLAN Main	Top side	1.020	-0.60	-3.96	-0.38	1.28	85.2	0.017	SPLSR<0.04,
ВТ	Top side	0.260	-0.70	-12.48	-0.35	1.20	03.2	0.017	Not required



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GPRS 1900 + 5GHz WLAN Main + BT

No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	ВТ	SAR Sum	SPLSR
		Back side	0	1.136	0.890	0.440	2.466	Analyzed as below
44	GPRS	Top side	0	0.653	1.020	0.260	1.933	Analyzed as below
44	1900	Right side	0	0.393	0.400	0.400	1.193	ΣSAR<1.6, Not required
		Left side	0	0.157	0.400	0.110	0.667	ΣSAR<1.6, Not required

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WWAN & WI AN Main

Conditions Position Value (W/kg) x y z Separation Distance (mm) SPLSR Transmission SAR Test GPRS 1900 Back side 1.136 9.29 6.46 -0.21 SPLSR 0.030 SPLSR<0.04	VVVAIVQVV	VVVAIN & VVLAIN IVIAIII											
GPRS 1900 WLAN Main War W	Conditions	Position	Value	Coordinates (cm)				Location Separation	SPLSR	Simultaneous Transmission			
WLAN Main Back side 0.890 9.52 -3.28 -0.20 2.026 97.4 0.030 SPLSR<0.04 Not required			(W/kg)	x	у	Z	(VV/Ng)			SAR Test			
WLAN Main 0.890 9.52 -3.28 -0.20 Not required	GPRS 1900	Back side		9.29	6.46	-0.21	2 026	97.4	0.030	SPLSR<0.04,			
	WLAN Main				-3.28	-0.20	2.020	57.4	0.030	Not required			
> ∨	9		WLAM M										

Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test
GPRS 1900	Top side	0.653	-0.85	5.10	-0.37	1.673	90.6	0.024	SPLSR<0.04,
WLAN Main	Top side	1.020	-0.60	-3.96	-0.38	1.073	90.0	0.024	Not required
	-	WLAN	Main	į		N			

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\M\M\AN & RT

VVVVAIV & D	VWAN & BI												
Conditions	Position	SAR Value	Coo	ordinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission				
		(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test				
GPRS 1900	Back side	1.136	9.29	6.46	-0.21	1.576	176.5	0.011	SPLSR<0.04,				
ВТ	Back side	0.440	9.82	-11.18	-0.19	1.070	170.0	0.011	Not required				
0		5	ļ	-									
	Blueto	ooth		ww	VAN								

Conditions	Position	SAR Value	Coo	rdinates ((cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	У	Z	(vv/kg)	Distance (mm)		SAR Test
GPRS 1900	Top side	0.653	-0.85	5.10	-0.37	0.913	175.81	0.005	SPLSR<0.04,
ВТ	Top side	0.260	-0.70	-12.48	-0.35	0.913	173.01	0.003	Not required



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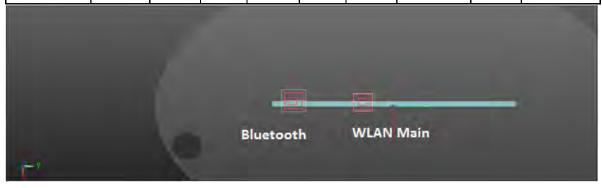
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WLAN Main & BT

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
			х	у	Z	(vv/kg)	Distance (mm)		SAR Test
WLAN Main	Back side	0.890	9.52	-3.28	-0.20	1.33	79.06	0.019	SPLSR<0.04,
ВТ		0.440	9.82	-11.18	-0.19		79.00	0.019	Not required



Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
			х	у	Z	(VV/Kg)	Distance (mm)		SAR Test
WLAN Main	Top side	1.020	-0.60	-3.96	-0.38	1.28	85.2	0.017	SPLSR<0.04,
ВТ		0.260	-0.70	-12.48	-0.35		03.2	0.017	Not required



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WCDMA Band II + 5GHz WLAN Main + BT

No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	ВТ	SAR Sum	SPLSR			
		Back side	0	1.025	0.890	0.440	2.355	Analyzed as below			
45	WCDMA	Top side	0	0.577	1.020	0.260	1.857	Analyzed as below			
45	B2	Right side	0	0.186	0.400	0.400	0.986	ΣSAR<1.6, Not required			
		Left side	0	0.154	0.400	0.110	0.664	ΣSAR<1.6, Not required			

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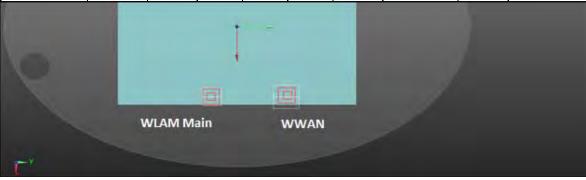
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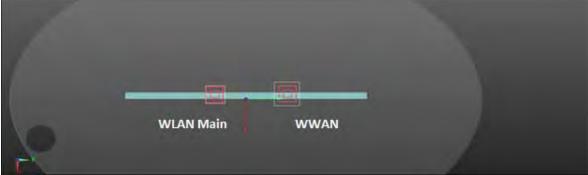
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WWAN & WLAN Main

Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(vv/kg)	Distance (mm)		SAR Test
WCDMA B2	Back side	1.025	9.44	6.31	-0.17	1.915	95.9	0.028	SPLSR<0.04, Not required
WLAN Main		0.890	9.52	-3.28	-0.20				



Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission	
			х	У	Z	(vv/kg)	Distance (mm)		SAR Test	
WCDMA B2	Top side	0.577	-0.70	5.10	-0.37	1.597	90.6	0.022	SPLSR<0.04,	
WLAN Main	Top side	1.020	-0.60	-3.96	-0.38	1.597	90.0	0.022	Not required	



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WWAN & BT

	Position	SAR Value (W/kg)	Coordinates (cm)				Peak Location		Simultaneous
Conditions						ΣSAR (W/kg)	Separation	SPLSR	Transmission
			х	у	Z	ν σ,	Distance (mm)		SAR Test
WCDMA B2	Back side	1.025	9.44	6.31	-0.17	1.465	174.9	0.010	SPLSR<0.04,
ВТ		0.440	9.82	-11.18	-0.19				Not required



Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
			х	У	Z	(vv/kg)	Distance (mm)		SAR Test
WCDMA B2	Top side	0.577	-0.70	5.10	-0.37	0.837	175.8	0.004	SPLSR<0.04,
BT Top sid	Top side	0.260	-0.70	-12.48	-0.35	0.037	175.0	0.004	Not required



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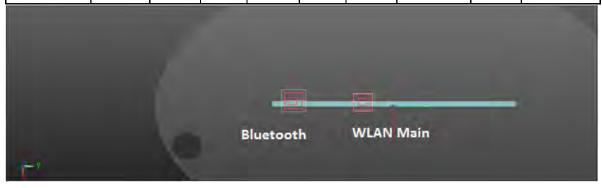
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WLAN Main & BT

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR	Peak Location Separation	SPLSR	Simultaneous Transmission
			Х	у	Z	(W/kg)	Distance (mm)		SAR Test
WLAN Main	-Back side	0.890	9.52	-3.28	-0.20	1.33	79.06	0.019	SPLSR<0.04,
ВТ		0.440	9.82	-11.18	-0.19	1.33	79.00	0.019	Not required



Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
			х	у	Z	(VV/Kg)	Distance (mm)		SAR Test
WLAN Main	Top side	1.020	-0.60	-3.96	-0.38	1.28	85.2	0.017	SPLSR<0.04,
ВТ		0.260	-0.70	-12.48	-0.35		03.2	0.017	Not required



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WCDMA Band IV + 5GHz WLAN Main + BT

1102 iii (2 aii a 11											
No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	ВТ	SAR Sum	SPLSR			
		Back side	0	1.223	0.890	0.440	2.553	Analyzed as below			
46	WCDMA	Top side	0	0.613	1.020	0.260	1.893	Analyzed as below			
40	B4		B4	B4	Right side	0	0.386	0.400	0.400	1.186	ΣSAR<1.6, Not required
		Left side	0	0.085	0.400	0.110	0.595	ΣSAR<1.6, Not required			

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WWAN & WI AN Main

VVVAN & VVLAN Main											
Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission		
		(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test		
WCDMA B4	Back side	1.223	9.43	6.31	-0.17	2.113	95.9	0.032	SPLSR<0.04,		
WLAN Main	Dack side	0.890	9.52	-3.28	-0.20	2.113	30.5	0.032	Not required		
9		WLAM M	in air	Į.							
		VLAIVI IVI	alli		WWAN						

Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	У	Z	(vv/kg)	Distance (mm)		SAR Test
WCDMA B4	Top side	0.613	-0.70	5.10	-0.37	1.633	90.6	0.023	SPLSR<0.04,
WLAN Main	AN Main		-0.60	-3.96	-0.38	1.033	90.0	0.023	Not required
6	_	WLAN	Main	i E	WWAN	_			

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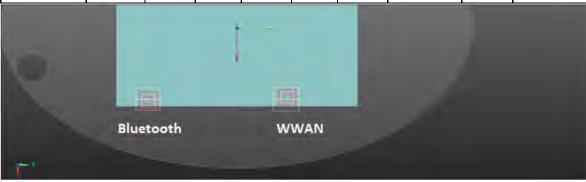
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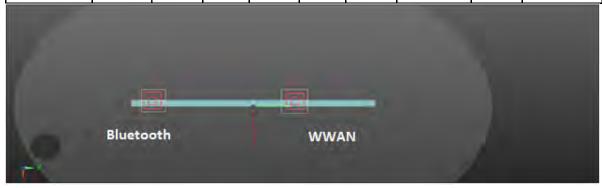
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WWAN & BT

Conditions	s Position	SAR Value	Coc	ordinates	(cm)	ΣSAR · (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission
		(W/kg)	Х	У	Z				SAR Test
WCDMA B4	Back side	1.223	9.43	6.31	-0.17	1.663	174.9	0.012	SPLSR<0.04,
ВТ	Dack Side	0.440	9.82	-11.18	-0.19	1.003	174.9	0.012	Not required



Conditions	Position	SAR Value (W/kg)	Coo	ordinates	(cm)	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			х	У	Z				
WCDMA B4	Top side	0.613	-0.70	5.10	-0.37	0.873	175.8	0.005	SPLSR<0.04,
ВТ	Top side	0.260	-0.70	-12.48	-0.35	0.073	173.0	0.003	Not required



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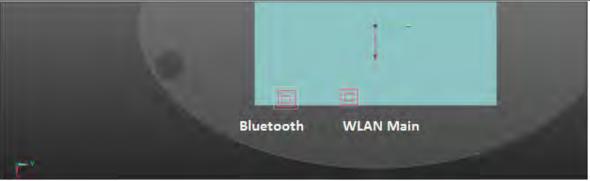
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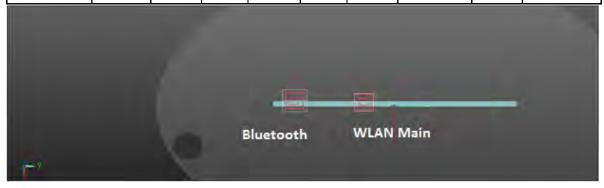
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WLAN Main & BT

Conditions	Position	SAR Value	Cod	ordinates ((cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z		Distance (mm)		SAR Test
WLAN Main	Back side	0.890	9.52	-3.28	-0.20	1.33	79.06	0.019	SPLSR<0.04,
ВТ	Dack Side	0.440	9.82	-11.18	-0.19	1.33	79.00	0.019	Not required



Conditions	Position	SAR Value	Cod	ordinates ((cm)	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z				SAR Test
WLAN Main	Top side	1.020	-0.60	-3.96	-0.38	1.28	85.2	0.017	SPLSR<0.04,
ВТ	Top side	0.260	-0.70	-12.48	-0.35	1.20	03.2	0.017	Not required



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WCDMA Band V + 5GHz WLAN Main + BT

No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	ВТ	SAR Sum	SPLSR
		Back side	0	1.178	0.890	0.440	2.508	Analyzed as below
47	WCDMA	Top side	0	0.667	1.020	0.260	1.947	Analyzed as below
47	B5	Right side	0	0.141	0.400	0.400	0.941	ΣSAR<1.6, Not required
		Left side	0	0.056	0.400	0.110	0.566	ΣSAR<1.6, Not required

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WWAN & WI AN Main

WWAN & WLAN Main											
Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission		
		(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test		
WCDMA B5	Back side	1.178	10.34	9.02	-0.23	2.068	123.3	0.024	SPLSR<0.04,		
WLAN Main	WLAN Main Back side 0.890				-0.20	2.000	120.0	0.024	Not required		
	WL	AM Mair									

Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(W/kg)	Distance (mm)		SAR Test
WCDMA B5	Top side	0.667	-0.56	8.10	-0.48	1.687	120.6	0.018	SPLSR<0.04,
WLAN Main	Top side	1.020	-0.60	-3.96	-0.38	1.007	120.0	0.010	Not required
	_			_		-			
	w	LAN Mai	n	w	WAN				
-									

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WWAN & B	l									
Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission	
		(W/kg)	Х	У	Z	(W/Kg)	Distance (mm)		SAR Test	
WCDMA B5	Back side	1.178	10.34	9.02	-0.23	1.618	202.1	0.010	SPLSR<0.04,	
ВТ	Dack Side	0.440	9.82	-11.18	-0.19	1.010	202.1	0.010	Not required	
			1							

WWAN

Conditions	s Posit	Position	SAR Value	Coo	ordinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
			(W	(W/kg)	Х	у	Z	(vv/kg)	Distance (mm)	
WCDMA E	35 Top s	ido	0.667	-0.56	8.10	-0.48	0.927	205.81	0.004	SPLSR<0.04,
ВТ	100 8	siuc	0.260	-0.70	-12.48	-0.35	0.321	200.01	0.004	Not required



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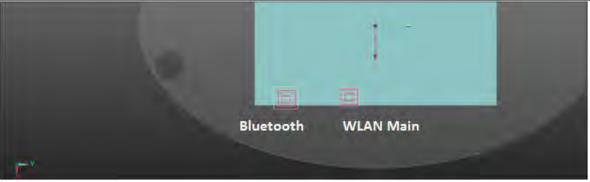
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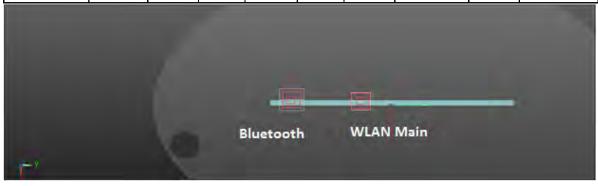
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WLAN Main & BT

	THE MAIN GO.											
Conditions I	Position	SAR Value	Cod	ordinates ((cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission			
	(W		х	у	Z	(vv/kg)	Distance (mm)		SAR Test			
WLAN Main	Back side	0.890	9.52	-3.28	-0.20	1.33	79.06	0.019	SPLSR<0.04,			
ВТ	Dack Side	0.440	9.82	-11.18	-0.19	1.33	79.00	0.019	Not required			



Conditions			Cod	ordinates ((cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test
WLAN Main	Top side	1.020	-0.60	-3.96	-0.38	1.28	85.2	0.017	SPLSR<0.04,
ВТ	Top side	0.260	-0.70	-12.48	-0.35	1.20	03.2	0.017	Not required



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CDMA BC0 + 5GHz WLAN Main + BT

No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	ВТ	SAR Sum	SPLSR
		Back side	0	1.143	0.890	0.440	2.473	Analyzed as below
48	BC0	Top side	0	0.576	1.020	0.260	1.856	Analyzed as below
40	ВСО	Right side	0	0.029	0.400	0.400	0.829	ΣSAR<1.6, Not required
		Left side	0	0.010	0.400	0.110	0.520	ΣSAR<1.6, Not required

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WWAN & WLAN Main

77777114 W 77	VVVAN & VVLAN MAIN										
Conditions	Position	Value (W/kg)		ordinates (cm)		ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission		
		(W/kg)	x	у	Z	(VV/Ng)	Distance (mm)		SAR Test		
BC0	Back side	1.143	10.49	9.18	-0.20	2.033	125	0.023	SPLSR<0.04,		
WLAN Main	Dack side	0.890	9.52	-3.28	-0.20	2.000	125	0.023	Not required		
2	WLAN AL		1	W					٦		
F*	WEAR AC										

Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	Х	у	Z	(vv/kg)	Distance (mm)		SAR Test
BC0	Top side	0.576	-0.55	8.10	-0.50	1.596	12.06	0.167	SPLSR<0.04,
WLAN Main	100 3140	1.020	-0.60	-3.96	-0.38	1.000	12.00	0.107	Not required
	_	_							
_	w	LAN Mai			WAN				
-									

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	Blueto	alla .	WWAN						
9			1	-					
ВТ	Dack side	0.440	9.82	-11.18	-0.19	1.303	200.7	0.010	Not required
BC0	Back side	1.143	10.49	9.18	-0.20	1.583	203.7	0.010	SPLSR<0.04,
Conditions	Position	Value (W/kg)	х	у	z	(W/kg)	Separation Distance (mm)	SPLSR	Transmission SAR Test
Conditions	Desition	SAR	Coo	rdinates ((cm)	ΣSAR	Peak Location	CDI CD	Simultaneous

Conditions Position	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	x	У	Z	(vv/kg)	Distance (mm)		SAR Test
BC0	Top side	0.576	-0.55	8.10	-0.50	0.836	205.81	0.004	SPLSR<0.04,
ВТ	Top side	0.260	-0.70	-12.48	-0.35	0.030	203.61	0.004	Not required



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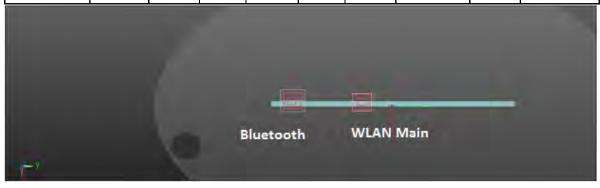
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WLAN Main & BT

Conditions	Position	SAR Value	Cod	ordinates ((cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z		Distance (mm)		SAR Test
WLAN Main	Back side	0.890	9.52	-3.28	-0.20	1.33	79.06	0.019	SPLSR<0.04,
ВТ	Dack Side	0.440	9.82	-11.18	-0.19	1.33	79.00	0.019	Not required



Conditions			Cod	ordinates ((cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test
WLAN Main	Top side	1.020	-0.60	-3.96	-0.38	1.28	85.2	0.017	SPLSR<0.04,
ВТ	Top side	0.260	-0.70	-12.48	-0.35	1.20	03.2	0.017	Not required



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CDMA BC1 + 5GHz WLAN Main + BT

No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	ВТ	SAR Sum	SPLSR
		Back side	0	1.270	0.890	0.440	2.600	Analyzed as below
49	BC1	Top side	0	0.685	1.020	0.260	1.965	Analyzed as below
49	ВСТ	Right side	0	0.050	0.400	0.400	0.85	ΣSAR<1.6, Not required
		Left side	0	0.017	0.400	0.110	0.527	ΣSAR<1.6, Not required

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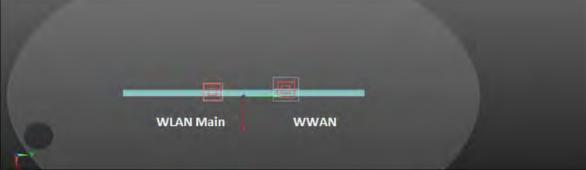


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WWAN & WI AN Main

<u> </u>	WWAN & WEAN MAIN										
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission		
		(W/kg)	х	у	Z	(vv/kg)	Distance (mm)		SAR Test		
BC1	Back side	1.143	10.49	9.18	-0.20	2.033	95.9	0.030	SPLSR<0.04,		
WLAN Main	Dack Side	0.890	9.52	-3.28	-0.20	2.033	95.9	0.030	Not required		
9				E	1						
		WLAM N	Main WWAN								
T											

Conditions	Position	SAR Value			ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission	
		(W/kg)	Х	у	Z	(W/Kg)	Distance (mm)		SAR Test
BC1	Top side	0.685	-1.00	5.25	-0.37	1.705	92.2	0.024	SPLSR<0.04,
WLAN Main	Top side	1.020	-0.60	-3.96	-0.38	1.705	92.2	0.024	Not required



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WWAN & BT

Conditions	Position	SAR Value	Coo	rdinates ((cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	У	Z	(vv/kg)	Distance (mm)		SAR Test
BC1	Back side	1.270	9.28	6.31	-0.18	1.71	175	0.013	SPLSR<0.04,
ВТ	Dack Side	0.440	9.82	-11.18	-0.19	1.71	175	0.013	Not required



Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	У	Z	(vv/kg)	Distance (mm)		SAR Test
BC1	Top side	0.685	-1.00	5.25	-0.37	0.945	177.33	0.005	SPLSR<0.04,
ВТ	Top side	0.260	-0.70	-12.48	-0.35	0.945	177.33	0.005	Not required



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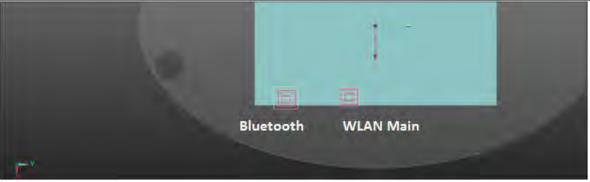
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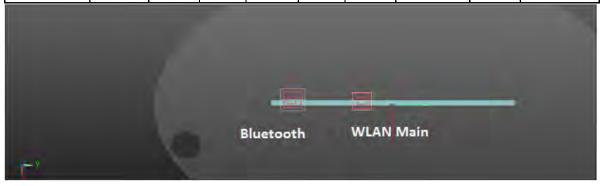
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WLAN Main & BT

Conditions	Position	SAR Value	Cod	ordinates ((cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z		Distance (mm)		SAR Test
WLAN Main	Back side	0.890	9.52	-3.28	-0.20	1.33	79.06	0.019	SPLSR<0.04,
ВТ	Dack Side	0.440	9.82	-11.18	-0.19	1.33	79.00	0.019	Not required



Conditions	Position	SAR Value	Cod	ordinates ((cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	z (W/kg)		Distance (mm)		SAR Test
WLAN Main	Top side	1.020	-0.60	-3.96	-0.38	1.28	85.2	0.017	SPLSR<0.04,
ВТ	Top side	0.260	-0.70	-12.48	-0.35	1.20	03.2	0.017	Not required



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LTE FDD Band II + 5GHz WLAN Main + BT

No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	ВТ	SAR Sum	SPLSR
		Back side	0	1.051	0.890	0.440	2.381	Analyzed as below
50	LTE Band	Top side	0	0.579	1.020	0.260	1.859	Analyzed as below
30	2	Right side	0	0.260	0.400	0.400	1.060	ΣSAR<1.6, Not required
		Left side	0	0.114	0.400	0.110	0.624	ΣSAR<1.6, Not required

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WWAN & WI AN Main

VVVVAIN & VV	VVVVAN & VVLAN IVIAIN												
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission				
		(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test				
LTE B2	Back side	1.051	9.44	6.47	-0.20	1.941	97.5	0.028	SPLSR<0.04,				
WLAN Main	Dack side	0.890	9.52	-3.28	-0.20	1.541	37.0	0.020	Not required				
9			ļ	-									
		WLAM IV	lain		WWAN								
- Y													

Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(vv/kg)	Distance (mm)		SAR Test
LTE B2	Top side	0.579	-0.85	5.10	-0.36	1.599	90.6	0.022	SPLSR<0.04,
WLAN Main	Top side	1.020	-0.60	-3.96	-0.38	1.599	90.0	0.022	Not required



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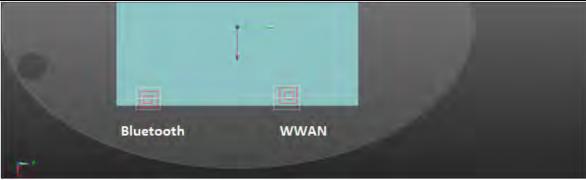
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WWAN & BT

Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation		Simultaneous Transmission
		(W/kg)	х	У	Z	(vv/kg)	Distance (mm)		SAR Test
LTE B2	Back side	1.051	9.44	6.47	-0.20	1.491	176.5	0.010	SPLSR<0.04,
ВТ	Dack Side	0.440	9.82	-11.18	-0.19	1.491	170.5	0.010	Not required



Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	У	Z	(vv/kg)	Distance (mm)		SAR Test
LTE B2	Top side	0.579	-0.85	5.10	-0.36	0.839	175.81	0.004	SPLSR<0.04,
ВТ	Top side	0.260	-0.70	-12.48	-0.35	0.039	173.01	0.004	Not required



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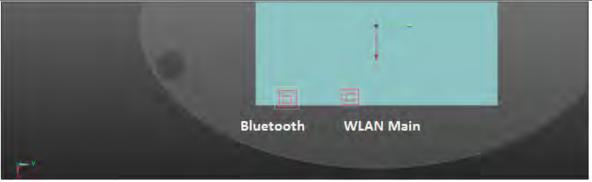
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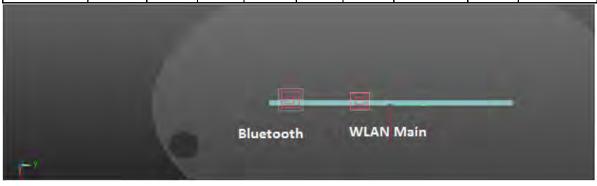
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WLAN Main & BT

Conditions			Cod	ordinates ((cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(vv/kg)	Distance (mm)		SAR Test
WLAN Main	Back side	0.890	9.52	-3.28	-0.20	1.33	79.06	0.019	SPLSR<0.04,
ВТ	Dack Side	0.440	9.82	-11.18	-0.19	1.33	79.00	0.019	Not required



Conditions	Position	SAR Value	Cod	ordinates ((cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у			Distance (mm)		SAR Test
WLAN Main	Top side	1.020	-0.60	-3.96	-0.38	1.28	85.2	0.017	SPLSR<0.04,
ВТ	Top side	0.260	-0.70	-12.48	-0.35	1.20	03.2	0.017	Not required



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LTE FDD Band IV + 5GHz WLAN Main + BT

No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	ВТ	SAR Sum	SPLSR
		Back side	0	1.225	0.890	0.440	2.555	Analyzed as below
51	LTE Band	Top side	0	0.639	1.020	0.260	1.919	Analyzed as below
31	4	Right side	0	0.291	0.400	0.400	1.091	ΣSAR<1.6, Not required
		Left side	0	0.125	0.400	0.110	0.635	ΣSAR<1.6, Not required

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WWAN & WI AN Main

			/VVVAN & VVLAN Main											
(Conditions	Position	SAR Value	Cool	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR					
			(W/kg)	X	у	Z	(VV/Kg)	Distance (mm)		SAR Test				
	LTE B4	Back side	1.225	9.28	6.47	-0.21	2.115	97.5	0.032	SPLSR<0.04,				
V	VLAN Main	Dack Side	0.890		-3.28	-0.20	2.113	37.3	0.032	Not required				
			WLAM M	ain	<u> </u>	WWAN								

Conditions	Position	SAR Value	Cod	ordinates ((cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	У	Z	(vv/kg)	Distance (mm)		SAR Test
LTE B4	Top side	0.639	-0.55	5.10	1.00	1.659	90.6	0.024	SPLSR<0.04,
WLAN Main	Top side	1.020	-0.60	-3.96	-0.38	1.059	90.0	0.024	Not required
	_			. 1					
10		WLAN	Main		WWAN	1			

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\/\\/\AN & RT

WWAN & B	<u> </u>								
Conditions	Position	SAR Value	Cod	ordinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test
LTE B4	Back side	1.225	9.28	6.47	-0.21	1.665	176.6	0.012	SPLSR<0.04,
ВТ	Dack side	0.440	9.82	-11.18	-0.19	1.000	170.0	0.012	Not required
9	1		1						
	Bluet	tooth		W	WAN				
FV.									

Conditions	Position	SAR Value	Coc	ordinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	Х	У	Z	(VV/Kg)	Distance (mm)		SAR Test
LTE B4	Top side	0.639	-0.55	5.10	1.00	0.899	175.81	0.005	SPLSR<0.04,
ВТ	Top side	0.260	-0.70	-12.48	-0.35	0.099	173.01	0.003	Not required



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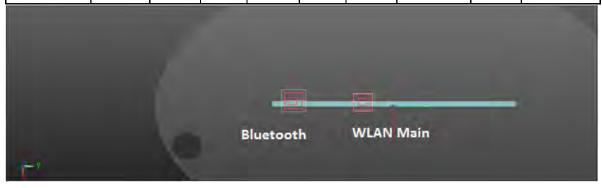
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WLAN Main & BT

Conditions	Position	SAR Value	Cod	ordinates ((cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(vv/kg)	Distance (mm)		SAR Test
WLAN Main	Back side	0.890	9.52	-3.28	-0.20	1.33	79.06	0.019	SPLSR<0.04,
ВТ	Dack Side	0.440	9.82	-11.18	-0.19	1.33	79.00	0.019	Not required



Conditions Position	SAR Value	Cod	ordinates ((cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission	
		(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test
WLAN Main	Top side	1.020	-0.60	-3.96	-0.38	1.28	85.2	0.017	SPLSR<0.04,
ВТ	Top side	0.260	-0.70	-12.48	-0.35	1.20	03.2	0.017	Not required



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LTE FDD Band V + 5GHz WLAN Main + BT

No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	ВТ	SAR Sum	SPLSR
		Back side	0	1.258	0.890	0.440	2.588	Analyzed as below
52	LTE Band	Top side	0	0.667	1.020	0.260	1.947	Analyzed as below
32	5	Right side	0	0.099	0.400	0.400	0.899	ΣSAR<1.6, Not required
		Left side	0	0.046	0.400	0.110	0.556	ΣSAR<1.6, Not required

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VVVVAIV & VV	WWAN & WLAN Main											
Conditions	Position	SAR Value	ue			ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission			
		(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test			
LTE B5	Back side	1.258	10.34	9.18	-0.20	2.148	124.9	0.025	SPLSR<0.04,			
WLAN Main	Dack Side	0.890	9.52	-3.28	-0.20	2.140	124.5	0.023	Not required			
- -v	w	LAM Mai		W	WAN							

0 150	SAR Conditions Position Value		Coo	rdinates	(cm)	ΣSAR	Peak Location	051.05	Simultaneous	
Conditions	Position	(W/kg)	Х	у	z	(W/kg)	Separation Distance (mm)	SPLSR	Transmission SAR Test	
LTE B5	Top side	0.667	-0.46	5.00	-0.51	1.687	122.1	0.018	SPLSR<0.04,	
WLAN Main	Top side	1.020	-0.60	-3.96	-0.38	1.007	122.1	0.010	Not required	
		<u> </u>								
	w	LAN Mai		W	WAN					

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MANANIO DT

WWAN & B	•								
Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test
LTE B5	Back side	1.258	10.34	9.18	-0.20	1.698	203.7	0.011	SPLSR<0.04,
ВТ	Back side	0.440	9.82	-11.18	-0.19	1.000	200.7	0.011	Not required
			1	- IF					

0 - 177	Design	SAR	SAR Coordinates (cm) Value				Peak Location	001 00	Simultaneous	
Conditions	Position	(W/kg)	х	у	Z	(W/kg)	Separation Distance (mm)	SPLSR	Transmission SAR Test	
LTE B5	Top side	0.667	-0.46	5.00	-0.51	0.927	207.32	0.004	SPLSR<0.04,	
ВТ	Top side	0.260	-0.70	-12.48	-0.35	0.921	201.52	0.004	Not required	
	la la									
ВІ	uetooth			w	WAN					
+										

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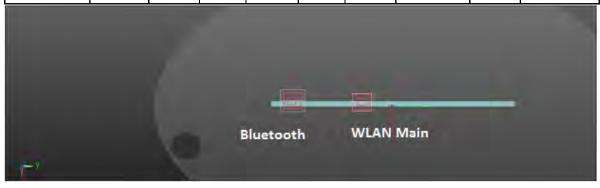
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WLAN Main & BT

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Conditions	Position	SAR Value	Cod	ordinates ((cm)	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission
		(W/kg)	Х	у	Z				SAR Test
WLAN Main	Back side	0.890	9.52	-3.28	-0.20	1.33	79.06	0.019	SPLSR<0.04,
ВТ	Dack Side	0.440	9.82	-11.18	-0.19	1.33	7 9.00	0.019	Not required



Conditions	Position	SAR Value	Cod	ordinates ((cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(W/Kg)	Distance (mm)		SAR Test
WLAN Main	Top side	1.020	-0.60	-3.96	-0.38	1.28	85.2	0.017	SPLSR<0.04,
ВТ	Top side	0.260	-0.70	-12.48	-0.35	1.20	03.2	0.017	Not required



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LTE FDD Band VII + 5GHz WLAN Main + BT

	ETET DD Bana VII I GOTIE WEAR Main I BT											
No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	ВТ	SAR Sum	SPLSR				
		Back side	0	1.160	0.890	0.440	2.490	Analyzed as below				
53	LTE Band	Top side	0	0.562	1.020	0.260	1.842	Analyzed as below				
33	7	LTE Band 7	7	7	7	Right side	0	0.677	0.400	0.400	1.477	ΣSAR<1.6, Not required
		Left side	0	0.042	0.400	0.110	0.552	ΣSAR<1.6, Not required				

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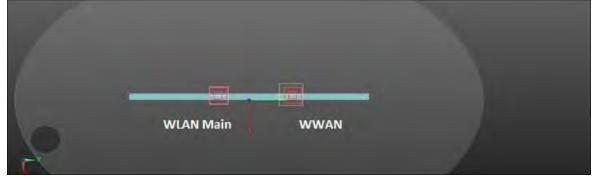


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WWAN & WI AN Main

WWAN & W	LAN Ma	in							
Conditions	ditions Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(VV/Kg)	Distance (mm)		SAR Test
LTE B7	Rack side	1.160	9.08	5.84	-0.18	2.05	91.3	0.032	SPLSR<0.04,
WLAN Main		0.890	9.52	-3.28	-0.20	2.03	91.5	0.032	Not required
		WLAM M	lain	1	WWAN				
→ V									

Conditions	Position	SAR Value			ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission	
		(W/kg)	х		(vv/kg)	Distance (mm)		SAR Test	
LTE B7	Top side	0.562	-0.64	5.42	-0.49	1.582	93.8	0.021	SPLSR<0.04,
WLAN Main	Top side	1.020	-0.60	-3.96	-0.38	1.562	93.0	0.021	Not required



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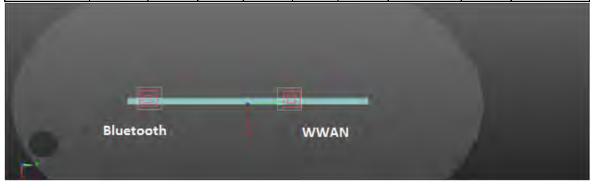


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MANANIO DT

		tooth	_	W	WAN				
	1					Ì			П
ВТ	BT Back side		9.82	-11.18	-0.19	1.0	170.4	0.012	Not required
LTE B7	Dook oido	1.160	9.08	5.84	-0.18	1.6	170.4	0.012	SPLSR<0.04,
Conditions	Position	SAR Value (W/kg)	х			ΣSAR (W/kg)	Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
					, ,		Peak		

Conditions	Position	n Value (\lambda/kg)	ΣSAR (M/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission			
		(W/kg)	Х	У	Z	(vv/kg)	Distance (mm)		SAR Test
LTE B7	Top side	0.562	-0.64	5.42	-0.49	0.822	179.01	0.004	SPLSR<0.04,
ВТ	Top side	0.260	-0.70	-12.48	-0.35	0.022	179.01	0.004	Not required



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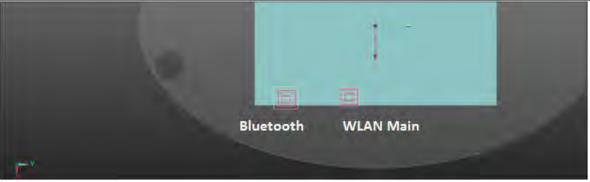
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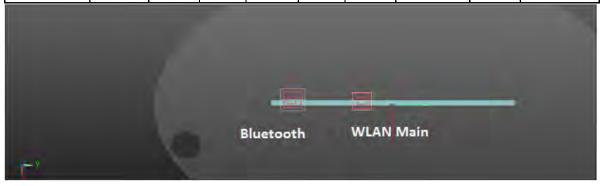
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WLAN Main & BT

Conditions	Position	SAR Value	Cod	ordinates ((cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(vv/kg)	Distance (mm)		SAR Test
WLAN Main	Back side	0.890	9.52	-3.28	-0.20	1.33	79.06	0.019	SPLSR<0.04,
ВТ	Dack Side	0.440	9.82	-11.18	-0.19	1.33	79.00	0.019	Not required



Conditions	Position	SAR Value	Cod	ordinates (linates (cm)		Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(W/kg)	Distance (mm)		SAR Test
WLAN Main	Top side	1.020	-0.60	-3.96	-0.38	1.28	85.2	0.017	SPLSR<0.04,
ВТ	Top side	0.260	-0.70	-12.48	-0.35	1.20	03.2	0.017	Not required



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LTE FDD Band XII + 5GHz WLAN Main + BT

No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	ВТ	SAR Sum	SPLSR				
		Back side	0	1.208	0.890	0.440	2.538	Analyzed as below				
54	LTE Band	Top side	0	0.686	1.020	0.260	1.966	Analyzed as below				
34	12					Right side	0	0.246	0.400	0.400	1.046	ΣSAR<1.6, Not required
		Left side	0	0.016	0.400	0.110	0.526	ΣSAR<1.6, Not required				

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WWAN & WI AN Main

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Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission			
		(W/kg)	x	У	Z	(W/Kg)	Distance (mm)		SAR Test			
LTE B12	Back side	1.208	10.10	9.10	-0.24	2.438	123.9	0.031	SPLSR<0.04,			
WLAN Main	Dack Side	1.230		-13.26	-0.38	2.400	120.5	0.031	Not required			
	W	/LAM Ma	in	W	VAN							

Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	Х	У	Z	(vv/kg)	Distance (mm)		SAR Test
LTE B12	Top side	0.686	0.00	12.50	-0.45	1.706	164.7	0.014	SPLSR<0.04,
WLAN Main	Top side	1.020	-0.60	-3.96	-0.38	1.700	104.7	0.014	Not required
	1.020 0.00 0.00								
-	_	.	_						
	WLAN			WWAN					
+1							/		

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WWAN & BT

Conditions	Position	SAR Value	Coordinates (cm)		ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission	
		(W/kg)	x	У	Z	(vv/kg)	Distance (mm)		SAR Test
LTE B12	Back side	1.208	10.10	9.10	-0.24	1.648	202.8	0.010	SPLSR<0.04,
ВТ	Dack side	0.440	9.82	-11.18	-0.19	1.040	202.0	0.010	Not required



Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR	Peak Location Separation		Simultaneous Transmission
			х	У	Z	(W/kg)	Distance (mm)		SAR Test
LTE B12	- Top side	0.686	0.00	12.50	-0.45	0.946	249.9	0.004	SPLSR<0.04, Not required
ВТ		0.260	-0.70	-12.48	-0.35				



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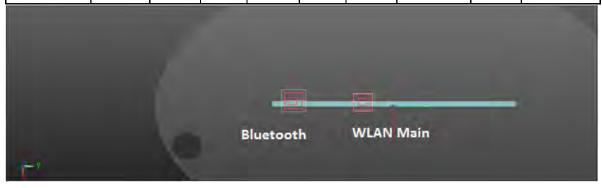
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WLAN Main & BT

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (M/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
			х	У	Z	(W/kg)	Distance (mm)		SAR Test
WLAN Main	·Back side	0.890	9.52	-3.28	-0.20	1.33	79.06	0.019	SPLSR<0.04, Not required
ВТ		0.440	9.82	-11.18	-0.19				



Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
			х	у	Z	(W/kg)	Distance (mm)		SAR Test
WLAN Main	Top side	1.020	-0.60	-3.96	-0.38	1.28	85.2	0.017	SPLSR<0.04, Not required
ВТ		0.260	-0.70	-12.48	-0.35				



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LTE FDD Band XIII + 5GHz WLAN Main + BT

No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	ВТ	SAR Sum	SPLSR
		Back side	0	1.176	0.890	0.440	2.506	Analyzed as below
55	LTE Band	Top side	0	0.639	1.020	0.260	1.919	Analyzed as below
33	13	Right side	0	0.179	0.400	0.400	0.979	ΣSAR<1.6, Not required
		Left side	0	0.069	0.400	0.110	0.579	ΣSAR<1.6, Not required

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WWAN & WI AN Main

WWAN & WEAN Main											
Conditions	Position	SAR Value	Cool	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission		
		(W/kg)	x	у	Z	(W/Kg)	Distance (mm)		SAR Test		
LTE B13	Back side	1.176	10.60	9.02	-0.19	2.066	123.5	0.024	SPLSR<0.04,		
WLAN Main	Dack side	0.890	9.52	-3.28	-0.20	2.000	120.0	0.024	Not required		
F *	W	/LAM Ma		w							

Conditions	Position	SAR Value	Coo	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(vv/kg)	Distance (mm)		SAR Test
LTE B13	Top side	0.639	-0.41	8.72	-0.49	1.659	126.8	0.017	SPLSR<0.04,
WLAN Main	Top side	1.020	-0.60	-3.96	-0.38	1.000	120.0	0.017	Not required
1									
		-	_						
	WI	AN Main			VAN				
-									

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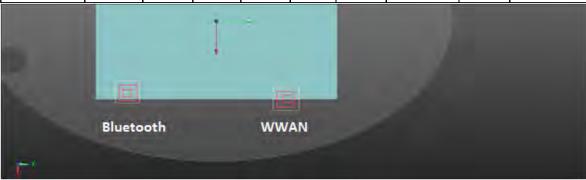
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WWAN & BT

Conditions	Position	SAR Value	Coo	rdinates ((cm)	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission
		(W/kg)	х	У	Z				SAR Test
LTE B13	Back side	1.176	10.60	9.02	-0.19	1.616	202.2	0.010	SPLSR<0.04,
ВТ	Dack Side	0.440	9.82	-11.18	-0.19	1.010	202.2	0.010	Not required



	Conditions	Position	SAR Value	Coo	rdinates ((cm)	ΣSAR (M/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			(W/kg)	х	У	Z	(W/kg)			
	LTE B13	Top side	0.639	-0.41	8.72	-0.49	0.899	212.02	0.004	SPLSR<0.04,
	ВТ	Top side	0.260	-0.70	-12.48	-0.35	0.099	212.02	0.004	Not required



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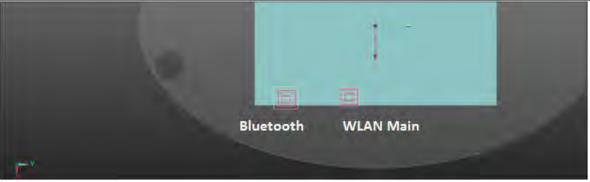
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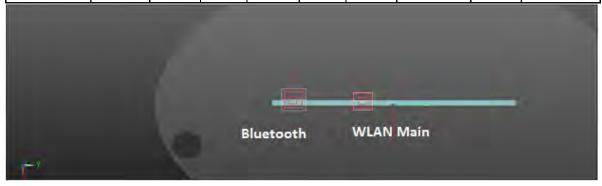
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WLAN Main & BT

Conditions	Position	SAR Value	Value		inates (cm)		Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(W/kg)	Distance (mm)		SAR Test
WLAN Main	Back side	0.890	9.52	-3.28	-0.20	1.33	79.06	0.019	SPLSR<0.04,
ВТ	Dack Side	0.440	9.82	-11.18	-0.19	1.33	79.00	0.019	Not required



Conditions	Position	SAR Value	Value				Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(W/kg)	Distance (mm)		SAR Test
WLAN Main	Top side	1.020	-0.60	-3.96	-0.38	1.28	85.2	0.017	SPLSR<0.04,
ВТ	Top side	0.260	-0.70	-12.48	-0.35	1.20	03.2	0.017	Not required



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LTE FDD Band XVII + 5GHz WLAN Main + BT

	No.	Conditions	Position	Distanc e (mm)	Max. WWAN	Max. WLAN Main	ВТ	SAR Sum	SPLSR
			Back side	0	1.257	0.890	0.440	2.587	Analyzed as below
	56	LTE Band	Top side	0	0.712	1.020	0.260	1.992	Analyzed as below
		17	Right side	0	0.240	0.400	0.400	1.040	ΣSAR<1.6, Not required
			Left side	0	0.007	0.400	0.110	0.517	ΣSAR<1.6, Not required

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WWAN & WI AN Main

WWAN & WLAN Main											
Conditions	Position	SAR Value	Cooi	rdinates	(cm)	ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission		
		(W/kg)	x	у	Z	(W/Kg)	Distance (mm)		SAR Test		
LTE B17	Back side	1.257	9.43	7.18	-0.27	2.147	104.6	0.030	SPLSR<0.04,		
WLAN Main	Dack Side	0.890	9.52	-3.28	-0.20	2.147	104.0	0.030	Not required		
	W	/LAM Ma	in	W	WAN						

Conditions	Position	SAR Value (W/kg)		Peak Location Separation	SPLSR	Simultaneous Transmission			
		(W/kg)	Х	у	Z	(vv/kg)	Distance (mm)		SAR Test
LTE B17	Top side	0.712	-0.55	12.45	-0.46	1.732	164.1	0.014	SPLSR<0.04,
WLAN Main	Top side	1.020	-0.60	-3.96	-0.38	1.732	104.1	0.014	Not required



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WWAN & BT

WWAN & B									
Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(VV/Kg)	Distance (mm)		SAR Test
LTE B17	Back side	1.257 Back side 0.440		7.18	-0.27	1.697	183.6	0.012	SPLSR<0.04,
ВТ	Back side	0.440	9.82 -11.18 -0.19			1.007	100.0	0.012	Not required
0	J.	1	Ţ		1				
	Bluet	ooth		WW	VAN				
<u></u> ∨									

Conditions	Position	SAR Value	Coo	ordinates ((cm)	ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission
		(W/kg)	х	У	Z				SAR Test
LTE B17	Top side	0.712	-0.55	12.45	-0.46	0.972	249.31	0.004	SPLSR<0.04,
ВТ	Top side	0.260	-0.70	-12.48	-0.35	0.972	249.51	0.004	Not required



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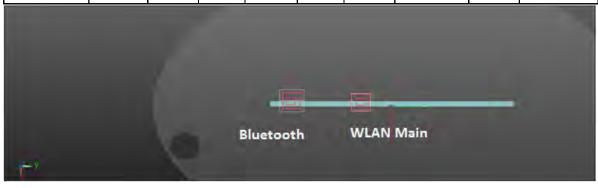
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WLAN Main & BT

Conditions	Position	SAR Value (W/kg)	Coordinates (cm)			ΣSAR	Peak Location Separation	SPLSR	Simultaneous Transmission
			х	у	Z	(W/kg)	Distance (mm)		SAR Test
WLAN Main	Back side	0.890	9.52	-3.28	-0.20	1.33	79.06	0.019	SPLSR<0.04,
ВТ		0.440	9.82	-11.18	-0.19				Not required



	Conditions	Position	SAR Value	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation	SPLSR	Simultaneous Transmission
		(W/kg)	х	у	Z	(vv/kg)	Distance (mm)		SAR Test	
	WLAN Main	Top side	1.020	-0.60	-3.96	-0.38	1.28	85.2	0.017	SPLSR<0.04, Not required
	ВТ		0.260	-0.70	-12.48	-0.35				



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4. Instruments List

Manufacturer	Device	Туре	Serial number	Date of last calibration	Date of next calibration
Schmid & Partner Engineering AG	Dosimetric E-Field Probe	EX3DV4	3770	Apr.27,2016	Apr.26,2017
		D750V2	1015	Aug.30,2016	Aug.29,2017
	System Validation Dipole	D835V2	4d063	Aug.25,2016	Aug.24,2017
Schmid &		D1750V2	1008	Aug.31,2016	Aug.30,2017
Partner		D1900V2	5d027	Apr.25,2016	Apr.24,2017
Engineering AG		D2450V2	727	Apr.19,2016	Apr.18,2017
		D2600V2	1005	Jan.21,2016	Jan.20,2017
		D5GHzV2	1023	Jan.26,2016	Jan.25,2017
Schmid & Partner Engineering AG	Data acquisition Electronics	DAE4	856	Apr.21,2016	Apr.20,2017
Schmid & Partner Engineering AG	Software	DASY 52 V52.8.8	N/A	Calibration not required	Calibration not required
Schmid & Partner Engineering AG	Phantom	SAM	N/A	Calibration not required	Calibration not required

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	1				
Manufacturer	Device	Type	Serial	Date of last	Date of next
iviariuraciurei	Device	Type	number	calibration	calibration
Α ''	Dielectric	85070E	MY44300677	Calibration	Calibration
Agilent	Probe Kit			not required	not required
	1 1000 1 111			•	
	Dual-directional	772D	MY46151242	Jul.11,2016	Jul.10,2017
Agilent	coupler	770D	MV/40000400	L.I.00.0040	L.I.OE 0047
		778D	MY48220468	Jul.06,2016	Jul.05,2017
A sile st	RF Signal	1154044		E.I. 40 0040	Cab 40 0047
Agilent	Generator	N5181A	MY50145142	Feb.19,2016	Feb.18,2017
A silla sa t	Davisa Matan	E 4 4 4 7 A	N 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2		
Agilent	Power Meter	E4417A	MY51410006	Jan.07,2016	Jan.06,2017
Agilent	Power Sensor	E9301H	MY51470001	Jan 07 2016	lan 06 2017
			101131470001	Jan.07,2010	Jai1.00,2017
			MY51470002	Jan 07 2016	Jan 06 2017
				Jan. 67 ,2010	0411.00,2017
TECPEL	Digital thermometer	DTM-303A	TP130073	Feb.26,2016	Feb.25,2017
				,	•
Anritsu	Radio	MT8820C	6201061049		
	Communication			Apr.08,2016	Apr.07,2017
	Test				
R&S	Radio	CMW 500	125470		
	Communication			Jul.09,2016	Jul.08,2017
	Test			·	·
<u> </u>	I				

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5. Measurements

Date: 2016/9/30

GPRS 850_Body_Back side_CH 251_0mm

Communication System: GPRS (1Dn2Up); Frequency: 848.8 MHz

Medium parameters used: f = 848.8 MHz; $\sigma = 1.013 \text{ S/m}$; $\varepsilon_r = 57.256$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(9.3, 9.3, 9.3); Calibrated: 2016/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2016/4/21
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

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

Maximum value of SAR (interpolated) = 1.77 W/kg

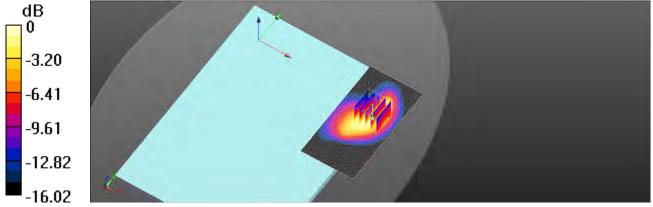
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm,

dv=8mm, dz=5mm

Reference Value = 0.9940 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 2.21 W/kg

SAR(1 g) = 1.24 W/kg; SAR(10 g) = 0.691 W/kgMaximum value of SAR (measured) = 1.70 W/kg



0 dB = 1.70 W/kg = 2.30 dBW/kg

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Date: 2016/9/26

GPRS 1900_Body_Back side_CH 810_0mm

Communication System: GPRS (1Dn2Up); Frequency: 1909.8 MHz

Medium parameters used: f = 1909.8 MHz; $\sigma = 1.595 \text{ S/m}$; $\epsilon_r = 53.104$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3770; ConvF(7.71, 7.71, 7.71); Calibrated: 2016/4/27;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn856; Calibrated: 2016/4/21

Phantom: Body

DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

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

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

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

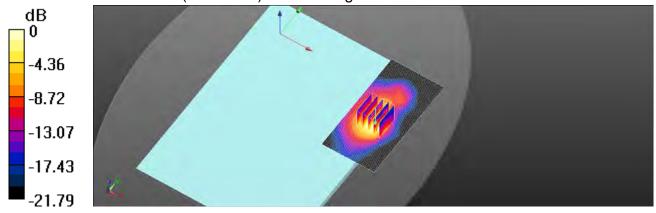
dy=8mm, dz=5mm

Reference Value = 2.452 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 2.23 W/kg

SAR(1 g) = 1.12 W/kg; SAR(10 g) = 0.547 W/kg

Maximum value of SAR (measured) = 1.59 W/kg



0 dB = 1.59 W/kg = 2.01 dBW/kg

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Date: 2016/9/26

WCDMA Band II_Body_Back side_CH 9538_0mm

Communication System: WCDMA; Frequency: 1907.6 MHz

Medium parameters used: f = 1908 MHz; $\sigma = 1.593 \text{ S/m}$; $\varepsilon_r = 53.163$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3770; ConvF(7.71, 7.71, 7.71); Calibrated: 2016/4/27;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn856; Calibrated: 2016/4/21

Phantom: Body

DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

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

Maximum value of SAR (interpolated) = 1.63 W/kg

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

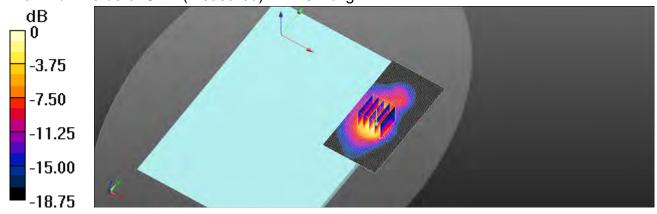
dy=8mm, dz=5mm

Reference Value = 2.381 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 2.02 W/kg

SAR(1 g) = 1.02 W/kg; SAR(10 g) = 0.500 W/kg

Maximum value of SAR (measured) = 1.49 W/kg



0 dB = 1.49 W/kg = 1.73 dBW/kg

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Date: 2016/9/27

WCDMA Band IV_Body_Back side_CH 1412_0mm

Communication System: WCDMA; Frequency: 1732.4 MHz

Medium parameters used: f = 1732.4 MHz; $\sigma = 1.417 \text{ S/m}$; $\epsilon_r = 53.608$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(7.88, 7.88, 7.88); Calibrated: 2016/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2016/4/21
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

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

Maximum value of SAR (interpolated) = 1.92 W/kg

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

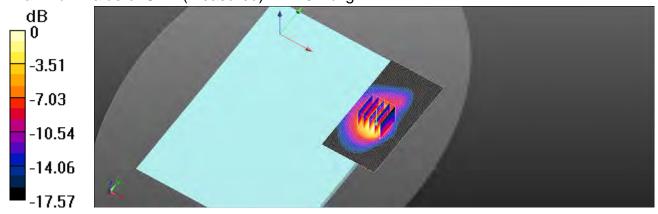
dy=8mm, dz=5mm

Reference Value = 1.889 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 2.33 W/kg

SAR(1 g) = 1.22 W/kg; SAR(10 g) = 0.622 W/kg

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



0 dB = 1.70 W/kg = 2.30 dBW/kg

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Date: 2016/9/30

WCDMA Band V_Body_Back side_CH 4233_0mm

Communication System: WCDMA; Frequency: 846.6 MHz

Medium parameters used: f = 846.6 MHz; $\sigma = 1.01 \text{ S/m}$; $\varepsilon_r = 57.305$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3770; ConvF(9.3, 9.3, 9.3); Calibrated: 2016/4/27;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn856; Calibrated: 2016/4/21

Phantom: Body

DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

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

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

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

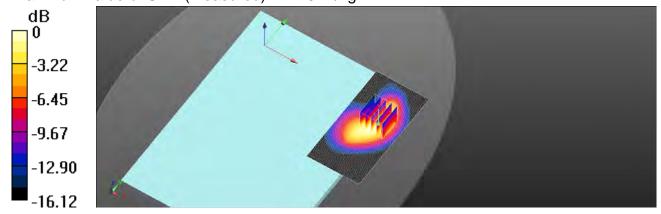
dv=8mm, dz=5mm

Reference Value = 1.769 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 1.95 W/kg

SAR(1 g) = 1.07 W/kg; SAR(10 g) = 0.587 W/kg

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



0 dB = 1.48 W/kg = 1.70 dBW/kg

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Date: 2016/9/26

LTE Band 2 (20MHz)_Body_Back side_CH 19100_100-0_0mm

Communication System: LTE; Frequency: 1900 MHz

Medium parameters used: f = 1900 MHz; $\sigma = 1.586 \text{ S/m}$; $\varepsilon_r = 53.208$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3770; ConvF(7.71, 7.71, 7.71); Calibrated: 2016/4/27;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn856; Calibrated: 2016/4/21

Phantom: Body

DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

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

Maximum value of SAR (interpolated) = 1.57 W/kg

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

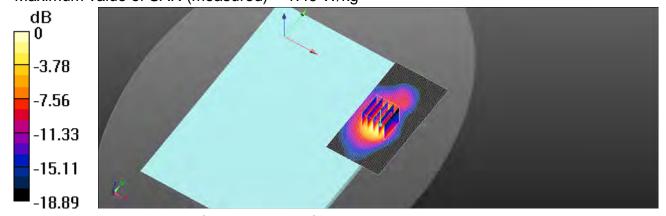
dv=8mm, dz=5mm

Reference Value = 1.777 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 2.06 W/kg

SAR(1 g) = 1.02 W/kg; SAR(10 g) = 0.499 W/kg

Maximum value of SAR (measured) = 1.49 W/kg



0 dB = 1.49 W/kg = 1.73 dBW/kg

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Date: 2016/9/27

LTE Band 4 (20MHz)_Body_Back side_CH 20175_50-0_0mm

Communication System: LTE; Frequency: 1732.5 MHz

Medium parameters used: f = 1732.5 MHz; $\sigma = 1.417 \text{ S/m}$; $\epsilon_r = 53.607$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3770; ConvF(7.88, 7.88, 7.88); Calibrated: 2016/4/27;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn856; Calibrated: 2016/4/21

Phantom: Body

DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

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

Maximum value of SAR (interpolated) = 1.77 W/kg

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

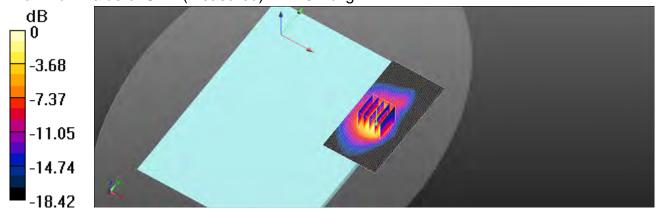
dv=8mm. dz=5mm

Reference Value = 1.711 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 2.35 W/kg

SAR(1 g) = 1.21 W/kg; SAR(10 g) = 0.613 W/kg

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



0 dB = 1.70 W/kg = 2.30 dBW/kg

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Date: 2016/9/30

LTE Band 5 (10MHz)_Body_Back side_CH 20525_25-0_0mm

Communication System: LTE; Frequency: 836.5 MHz

Medium parameters used: f = 836.5 MHz; $\sigma = 1 \text{ S/m}$; $\epsilon_r = 57.388$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3770; ConvF(9.3, 9.3, 9.3); Calibrated: 2016/4/27;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn856; Calibrated: 2016/4/21

Phantom: Body

DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

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

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

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

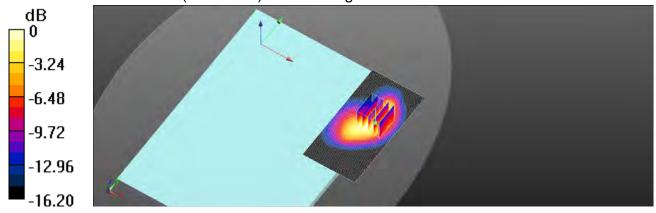
dv=8mm. dz=5mm

Reference Value = 2.988 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 2.22 W/kg

SAR(1 g) = 1.2 W/kg; SAR(10 g) = 0.656 W/kg

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



0 dB = 1.61 W/kg = 2.07 dBW/kg

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Date: 2016/9/28

LTE Band 7 (20MHz)_Body_Back side_CH 20850_50-0_0mm

Communication System: LTE; Frequency: 2510 MHz

Medium parameters used: f = 2510 MHz; $\sigma = 2.121 \text{ S/m}$; $\varepsilon_r = 52.007$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3770; ConvF(7.12, 7.12, 7.12); Calibrated: 2016/4/27;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn856; Calibrated: 2016/4/21

Phantom: Body

DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (51x121x1): Interpolated grid: dx=12 mm, dy=12 mm

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

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

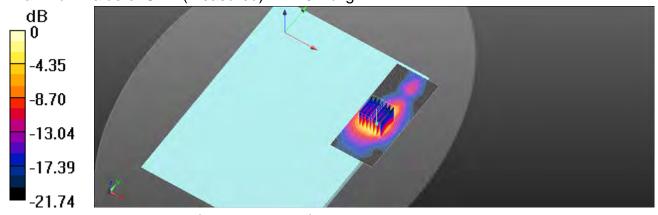
dy=5mm, dz=5mm

Reference Value = 1.517 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 2.56 W/kg

SAR(1 g) = 1.12 W/kg; SAR(10 g) = 0.484 W/kg

Maximum value of SAR (measured) = 1.75 W/kg



0 dB = 1.75 W/kg = 2.43 dBW/kg

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Date: 2016/9/29

LTE Band 12 (10MHz)_Body_Back side_CH 23130_50-0_0mm

Communication System: LTE; Frequency: 711 MHz

Medium parameters used: f = 711 MHz; $\sigma = 0.932 \text{ S/m}$; $\varepsilon_r = 57.719$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(9.43, 9.43, 9.43); Calibrated: 2016/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2016/4/21
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

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

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

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

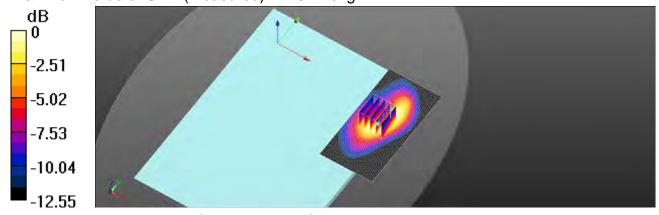
dy=8mm, dz=5mm

Reference Value = 1.546 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 1.93 W/kg

SAR(1 g) = 1.14 W/kg; SAR(10 g) = 0.702 W/kg

Maximum value of SAR (measured) = 1.54 W/kg



0 dB = 1.54 W/kg = 1.88 dBW/kg

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Date: 2016/9/29

LTE Band 13 (10MHz)_Body_Back side_CH 23230_50-0_0mm

Communication System: LTE; Frequency: 782 MHz

Medium parameters used: f = 782 MHz; $\sigma = 1.004 \text{ S/m}$; $\varepsilon_r = 57.094$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3770; ConvF(9.43, 9.43, 9.43); Calibrated: 2016/4/27;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn856; Calibrated: 2016/4/21

Phantom: Body

DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

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

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

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

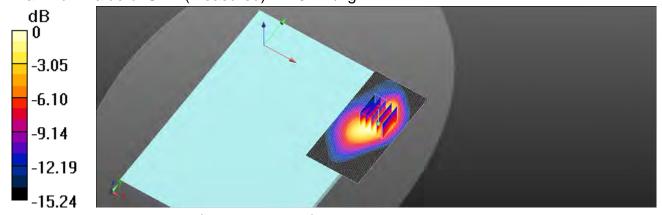
dy=8mm, dz=5mm

Reference Value = 1.249 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 1.99 W/kg

SAR(1 g) = 1.1 W/kg; SAR(10 g) = 0.613 W/kg

Maximum value of SAR (measured) = 1.57 W/kg



0 dB = 1.57 W/kg = 1.96 dBW/kg

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Date: 2016/9/29

LTE Band 17 (10MHz)_Body_Back side_CH 23800_50-0_0mm

Communication System: LTE; Frequency: 711 MHz

Medium parameters used: f = 711 MHz; $\sigma = 0.932 \text{ S/m}$; $\varepsilon_r = 57.719$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3770; ConvF(9.43, 9.43, 9.43); Calibrated: 2016/4/27;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn856; Calibrated: 2016/4/21

Phantom: Body

DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

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

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

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

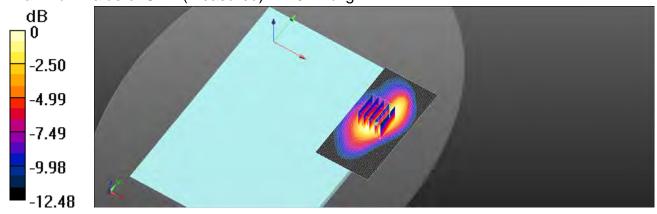
dy=8mm, dz=5mm

Reference Value = 3.884 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 1.98 W/kg

SAR(1 g) = 1.19 W/kg; SAR(10 g) = 0.728 W/kg

Maximum value of SAR (measured) = 1.54 W/kg



0 dB = 1.54 W/kg = 1.88 dBW/kg

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Date: 2016/9/30

Cellular BC0 (1xEVDO)_Body_Back side_CH 384_0mm

Communication System: 1xEvDO; Frequency: 836.52 MHz

Medium parameters used: f = 836.52 MHz; $\sigma = 1.001 \text{ S/m}$; $\epsilon_r = 57.377$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3770; ConvF(9.3, 9.3, 9.3); Calibrated: 2016/4/27;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn856; Calibrated: 2016/4/21

Phantom: Body

DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

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

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

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

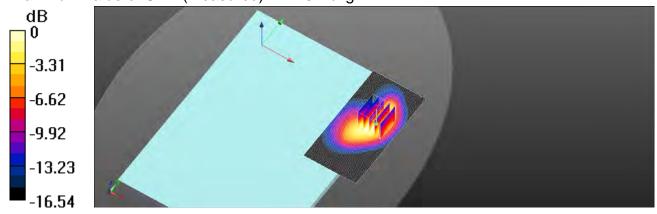
dy=8mm, dz=5mm

Reference Value = 2.412 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 1.85 W/kg

SAR(1 g) = 1.03 W/kg; SAR(10 g) = 0.566 W/kg

Maximum value of SAR (measured) = 1.45 W/kg



0 dB = 1.45 W/kg = 1.61 dBW/kg

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Date: 2016/9/26

PCS BC1 (1xEVDO)_Body_Back side_CH 1175_0mm

Communication System: 1xEvDO; Frequency: 1908.75 MHz

Medium parameters used: f = 1908.75 MHz; σ = 1.594 S/m; $ε_r$ = 53.135; ρ = 1000 kg/m³

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3770; ConvF(7.71, 7.71, 7.71); Calibrated: 2016/4/27;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn856; Calibrated: 2016/4/21

· Phantom: Body

DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

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

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

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

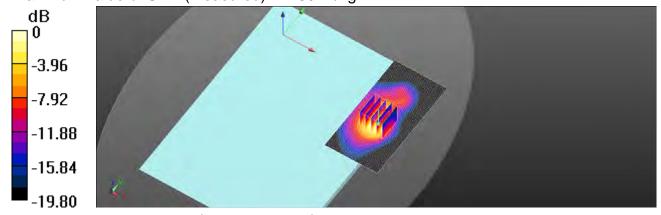
dy=8mm, dz=5mm

Reference Value = 1.379 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 2.46 W/kg

SAR(1 g) = 1.27 W/kg; SAR(10 g) = 0.634 W/kg

Maximum value of SAR (measured) = 1.80 W/kg



0 dB = 1.80 W/kg = 2.55 dBW/kg

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Date: 2016/11/2

WLAN 802.11b_Body_Back side_CH 11_Main_0mm

Communication System: WLAN 2.45G; Frequency: 2462 MHz

Medium parameters used: f = 2462 MHz; $\sigma = 2.049$ S/m; $\varepsilon_r = 50.876$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3770; ConvF(7.37, 7.37, 7.37); Calibrated: 2016/4/27;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn856; Calibrated: 2016/4/21

Phantom: Body

DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

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

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

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

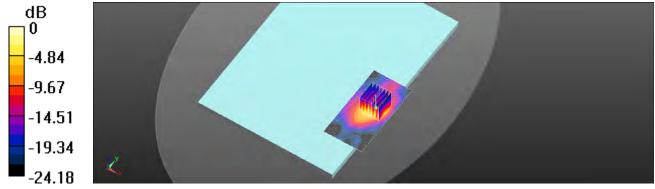
dy=5mm, dz=5mm

Reference Value = 2.887 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 2.27 W/kg

SAR(1 g) = 0.957 W/kg; SAR(10 g) = 0.393 W/kg

Maximum value of SAR (measured) = 1.53 W/kg



0 dB = 1.53 W/kg = 1.85 dBW/kg

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Date: 2016/11/2

WLAN 802.11b_Body_Back side_CH 11_Aux_0mm

Communication System: WLAN 2.45G; Frequency: 2462 MHz

Medium parameters used: f = 2462 MHz; $\sigma = 2.049 \text{ S/m}$; $\varepsilon_r = 50.876$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3770; ConvF(7.37, 7.37, 7.37); Calibrated: 2016/4/27;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn856; Calibrated: 2016/4/21

Phantom: Body

DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

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

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

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

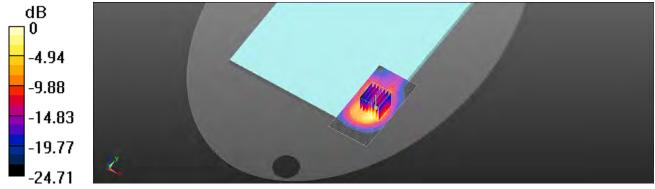
dv=5mm, dz=5mm

Reference Value = 3.954 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 2.46 W/kg

SAR(1 g) = 1.03 W/kg; SAR(10 g) = 0.419 W/kg

Maximum value of SAR (measured) = 1.68 W/kg



0 dB = 1.68 W/kg = 2.25 dBW/kg

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Date: 2016/11/2

WLAN 802.11a 5.6G_Body_Back side_CH 116_Aux_0mm

Communication System: WLAN 5G; Frequency: 5580 MHz

Medium parameters used: f = 5580 MHz; $\sigma = 5.801 \text{ S/m}$; $\varepsilon_r = 47.787$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3770; ConvF(3.7, 3.7, 3.7); Calibrated: 2016/4/27;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn856; Calibrated: 2016/4/21
- Phantom: Body
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Body/Area Scan (61x101x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.21 W/kg

Configuration/Body/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm,

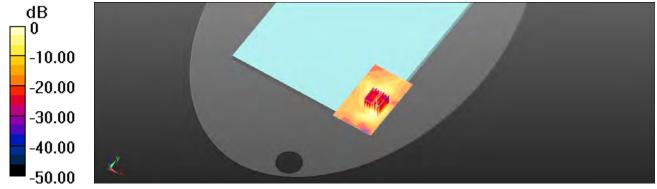
dy=4mm, dz=2mm

Reference Value = 2.541 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 4.60 W/kg

SAR(1 g) = 0.824 W/kg; SAR(10 g) = 0.214 W/kg

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



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

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6. SAR System Performance Verification

Date: 2016/9/29

Dipole 750 MHz SN:1015

Communication System: CW; Frequency: 750 MHz

Medium parameters used: f = 750 MHz; $\sigma = 0.974 \text{ S/m}$; $\varepsilon_r = 57.38$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3770; ConvF(9.43, 9.43, 9.43); Calibrated: 2016/4/27;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn856; Calibrated: 2016/4/21

Phantom: Body

DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Pin=250mW/Area Scan (41x141x1): Interpolated grid: dx=15 mm,

dy=15 mm

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

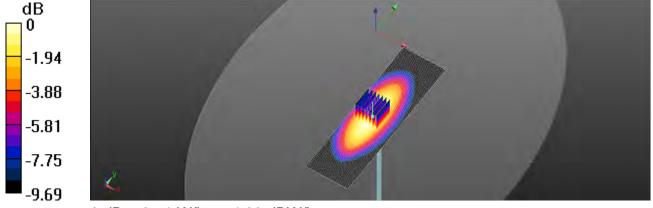
Configuration/Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

dx=5mm, dy=5mm, dz=5mm

Reference Value = 51.82 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 3.16 W/kg

SAR(1 g) = 2.15 W/kg; SAR(10 g) = 1.43 W/kg Maximum value of SAR (measured) = 2.71 W/kg



0 dB = 2.71 W/kg = 4.33 dBW/kg

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Date: 2016/9/30

Dipole 835 MHz SN:4d063

Communication System: CW; Frequency: 835 MHz

Medium parameters used: f = 835 MHz; $\sigma = 1 \text{ S/m}$; $\epsilon_r = 57.447$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3770; ConvF(9.3, 9.3, 9.3); Calibrated: 2016/4/27;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn856; Calibrated: 2016/4/21

Phantom: Body

DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Pin=250mW/Area Scan (41x121x1): Interpolated grid: dx=15 mm,

dy=15 mm

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

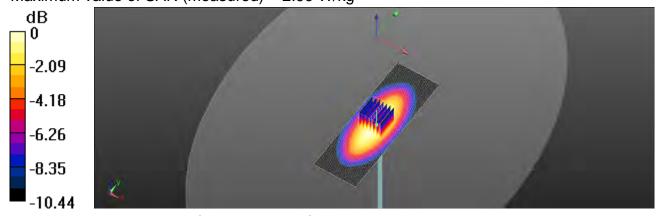
Configuration/Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

dx=5mm, dv=5mm, dz=5mm

Reference Value = 55.95 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 3.52 W/kg

SAR(1 g) = 2.36 W/kg; SAR(10 g) = 1.54 W/kgMaximum value of SAR (measured) = 2.99 W/kg



0 dB = 2.99 W/kg = 4.76 dBW/kg

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Date: 2016/9/27

Dipole 1750 MHz_SN:1008

Communication System: CW; Frequency: 1750 MHz

Medium parameters used: f = 1750 MHz; $\sigma = 1.436 \text{ S/m}$; $\varepsilon_r = 53.582$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3770; ConvF(7.88, 7.88, 7.88); Calibrated: 2016/4/27;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn856; Calibrated: 2016/4/21

Phantom: Body

DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 13.3 W/kg

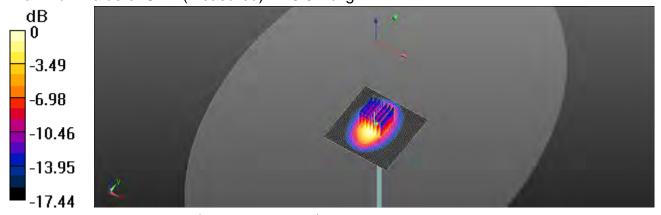
Configuration/Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

dx=5mm, dy=5mm, dz=5mm

Reference Value = 93.28 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 16.5 W/kg

SAR(1 g) = 9.19 W/kg; SAR(10 g) = 4.82 W/kg Maximum value of SAR (measured) = 13.0 W/kg



0 dB = 13.0 W/kg = 11.14 dBW/kg

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Date: 2016/9/26

Dipole 1900 MHz_SN:5d027

Communication System: CW; Frequency: 1900 MHz

Medium parameters used: f = 1900 MHz; $\sigma = 1.586 \text{ S/m}$; $\varepsilon_r = 53.208$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3770; ConvF(7.71, 7.71, 7.71); Calibrated: 2016/4/27;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn856; Calibrated: 2016/4/21

Phantom: Body

DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 14.8 W/kg

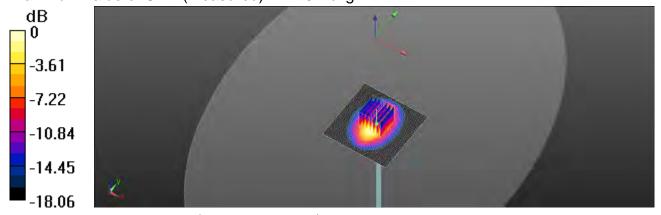
Configuration/Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

dx=5mm, dy=5mm, dz=5mm

Reference Value = 98.38 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 19.1 W/kg

SAR(1 g) = 10.2 W/kg; SAR(10 g) = 5.19 W/kg Maximum value of SAR (measured) = 14.8 W/kg



0 dB = 14.8 W/kg = 11.70 dBW/kg

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Date: 2016/11/2

Dipole 2450 MHz_SN:727

Communication System: CW; Frequency: 2450 MHz

Medium parameters used: f = 2450 MHz; $\sigma = 2.03 \text{ S/m}$; $\varepsilon_r = 50.922$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3770; ConvF(7.37, 7.37, 7.37); Calibrated: 2016/4/27;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn856; Calibrated: 2016/4/21

Phantom: Body

DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Pin=250mW/Area Scan (51x51x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 21.2 W/kg

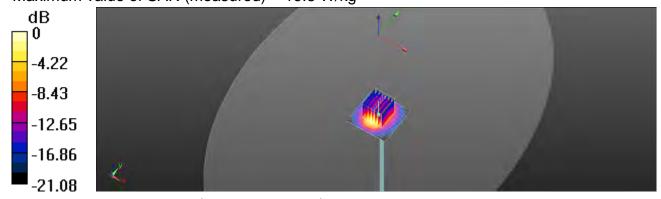
Configuration/Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

dx=5mm, dy=5mm, dz=5mm

Reference Value = 98.35 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 26.4 W/kg

SAR(1 g) = 12.9 W/kg; SAR(10 g) = 6.01 W/kg Maximum value of SAR (measured) = 19.8 W/kg



0 dB = 19.8 W/kg = 12.97 dBW/kg

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Date: 2016/9/28

Dipole 2600 MHz_SN:1005

Communication System: CW; Frequency: 2600 MHz

Medium parameters used: f = 2600 MHz; $\sigma = 2.238 \text{ S/m}$; $\varepsilon_r = 51.713$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3770; ConvF(7.12, 7.12, 7.12); Calibrated: 2016/4/27;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn856; Calibrated: 2016/4/21

Phantom: Body

DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 21.4 W/kg

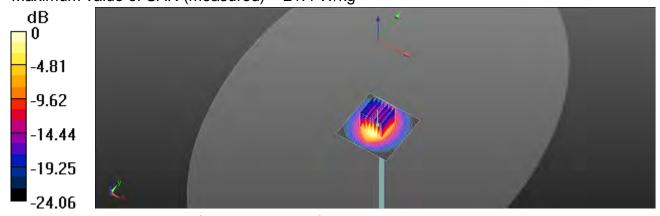
Configuration/Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

dx=5mm, dy=5mm, dz=5mm

Reference Value = 97.07 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 30.0 W/kg

SAR(1 g) = 13.5 W/kg; SAR(10 g) = 5.94 W/kg Maximum value of SAR (measured) = 21.4 W/kg



0 dB = 21.4 W/kg = 13.30 dBW/kg

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Date: 2016/11/2

Dipole 5300 MHz_SN:1023

Communication System: CW; Frequency: 5300 MHz

Medium parameters used: f = 5300 MHz; $\sigma = 5.475 \text{ S/m}$; $\varepsilon_r = 48.284$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3770; ConvF(4.34, 4.34, 4.34); Calibrated: 2016/4/27;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn856; Calibrated: 2016/4/21

Phantom: Body

DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Pin=100mW/Area Scan (51x51x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 15.7 W/kg

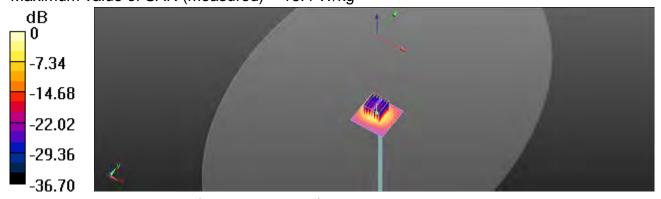
Configuration/Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

dx=4mm, dy=4mm, dz=2mm

Reference Value = 54.56 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 32.8 W/kg

SAR(1 g) = 7.75 W/kg; SAR(10 g) = 2.14 W/kg Maximum value of SAR (measured) = 16.4 W/kg



0 dB = 16.4 W/kg = 12.15 dBW/kg

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prosecuted to the fullest extent of the law.



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Date: 2016/11/2

Dipole 5600 MHz SN:1023

Communication System: CW; Frequency: 5600 MHz

Medium parameters used: f = 5600 MHz; $\sigma = 5.824 \text{ S/m}$; $\varepsilon_r = 47.793$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3770; ConvF(3.7, 3.7, 3.7); Calibrated: 2016/4/27;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn856; Calibrated: 2016/4/21

Phantom: Body

DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Pin=100mW/Area Scan (51x51x1): Interpolated grid: dx=10 mm, dy=10 mm

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

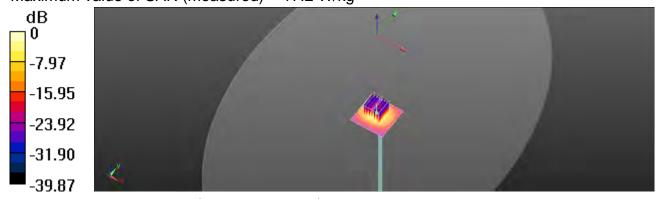
Configuration/Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

dx=4mm, dv=4mm, dz=2mm

Reference Value = 54.51 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 34.0 W/kg

SAR(1 g) = 7.95 W/kg; SAR(10 g) = 2.18 W/kgMaximum value of SAR (measured) = 17.2 W/kg



0 dB = 17.2 W/kg = 12.36 dBW/kg

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Date: 2016/11/2

Dipole 5800 MHz_SN:1023

Communication System: CW; Frequency: 5800 MHz

Medium parameters used: f = 5800 MHz; $\sigma = 6.148 \text{ S/m}$; $\varepsilon_r = 47.113$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

Probe: EX3DV4 - SN3770; ConvF(4.07, 4.07, 4.07); Calibrated: 2016/4/27;

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn856; Calibrated: 2016/4/21

Phantom: Body

DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Pin=100mW/Area Scan (51x51x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 15.2 W/kg

Configuration/Pin=100mW/Zoom Scan (7x7x12)/Cube 0: Measurement grid:

dx=4mm, dy=4mm, dz=2mm

Reference Value = 53.66 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 32.3 W/kg

SAR(1 g) = 7.33 W/kg; SAR(10 g) = 2.01 W/kg Maximum value of SAR (measured) = 16.1 W/kg



0 dB = 16.1 W/kg = 12.07 dBW/kg

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7. DAE & Probe Calibration Certificate

Calibration Laboratory of Schmid & Partner Engineering AG Zeughausstrasse 43, 8604 Zurich, Switzerland





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

Accredited by the Swiss Accreditation Service (SAS) The Swiss Accreditation Service is one of the signatories to the EA Multifateral Agreement for the recognition of calibration pertificates Accreditation No.: SCS 0108

SGS-TW (Auden) Certificate No: DAE4-856_Apr16 CALIBRATION CERTIFICATE Object DAE4 - SD 000 D04 BM - SN: 856 Calibration procedure(s) QA CAL-06.v29 Calibration procedure for the data acquisition electronics (DAE) Calibration date: April 21, 2016 This calibration certificate documents the insceedably to national standards, which realize the physical units of measurements (SI). prements and the uncertainties with confidence probability are given on the following pages and are part of the certificate. All calibrations have been conducted in the closed laboratory facility; environment temperature (22 a 3)°C and humidity < 70%. Calibration Equipment used (M&TE critical for calibration) ID-V Primary Standards Cal Date (Certificate No.) Scheduled Calibration SN: 0810278 89-Sep-15 (No:17153) Kelihiay Multimeter Type 2001 Sep-15. Check Date (in house) Scheduled Check Secondary Standards. Auto DAE Calibration Unit SE UWS 053 AA 1001 05-Jan-15 (in house check) In house check: Jan-17 Calibrator Box V2.1 SE UMS 006 AA 1002 DS-Jan-18 (in house check) In house phacis: Jan-17 Calibrated by R Mayoraz Fin Bomhall Deputy Technical Manage Approved by: Issued April 21, 2016 This calibration certificate shall not be reproduced except to full without written approval of the laboratory

Certificate No: DAE4-856_Apr16

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Accreditation No.: SCS 0108

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Glossary

DAE data acquisition electronics

Connector angle information used in DASY system to align probe sensor X to the robot

coordinate system.

Methods Applied and Interpretation of Parameters

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

Certificate No. EIAE4-856: April 6

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DC Voltage Measurement

A/D - Converter Resolution nominal

High Range: 1LSB = 6.1µV, full range = -100...+300 mV Low Range: 1LSB = 61nV , full range = -1.....+3mV DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

Calibration Factors	x	Y	Z
High Range	403.450 ± 0.02% (k=2)	404.571 ± 0.02% (k=2)	403.888 ± 0.02% (k=2)
Low Range	3.97641 ± 1.50% (k=2)	3.97912 ± 1.50% (k=2)	3.97796 ± 1.50% (k=2)

Connector Angle

١		
	Connector Angle to be used in DASY system	52.0°±1°

Certificate No: DAE4-856_Apr16

Page 3 of 5

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Appendix (Additional assessments outside the scope of SCS0108)

1. DC Voltage Linearity

High Range		Reading (µV)	Difference (µV)	Error (%)
Channel X	+ Input	199996.11	0.91	0.00
Channel X	+ Input	19999.18	-2.34	-0.01
Channel X	- Input	-19999.41	1.06	-0.01
Channel Y	+ Input	199997.66	2.51	0.00
Channel Y	+ Input	19998.64	-2.84	-0.01
Channel Y	- Input	-20002.21	-1.65	0.01
Channel Z	+ Input	199995.99	0.62	0.00
Channel Z	+ Input	19999.35	-2.13	-0.01
Channel Z	- Input	-20002.57	-1.88	0.01

Low Range	Reading (μV)	Difference (µV)	Error (%)
Channel X + Input	2001.58	0.10	0.01
Channel X + Input	202.26	0.40	0.20
Channel X - Input	-197.29	0.76	-0.38
Channel Y + Input	2001.59	0.10	0.00
Channel Y + Input	200.88	-1.08	-0.52
Channel Y - Input	-199.46	-1.39	0.70
Channel Z + Input	2001.75	0.28	0.01
Channel Z + Input	201.40	-0.39	-0.19
Channel Z - Input	-198.94	-0.69	0.35

2. Common mode sensitivity

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

	Common mode Input Voltage (mV)	High Range Average Reading (μV)	Low Range Average Reading (μV)
Channel X	200	-14.19	-16.06
	- 200	18.03	16.49
Channel Y	200	-2.43	-2.73
	- 200	0.85	0.06
Channel Z	200	10.84	10.76
	- 200	-12.44	-12.90

3. Channel separation

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

	Input Voltage (mV)	Channel X (µV)	Channel Y (μV)	Channel Z (µV)
Channel X	200		1.98	-2.81
Channel Y	200	7.60	-	4.11
Channel Z	200	9.54	4.60	-

Certificate No: DAE4-856, Apr16

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4. AD-Converter Values with inputs shorted

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

	High Range (LSB)	Low Range (LSB)
Channel X	16223	16358
Channel Y	15947	17393
Channel Z	15877	17066

5. Input Offset Measurement

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

	Average (μV)	min. Offset (μV)	max. Offset (μV)	Std. Deviation (µV)
Channel X	0.86	0.04	1.50	0.29
Channel Y	-0.51	-2.36	0.33	0.41
Channel Z	-0.75	-2.04	0.01	0.30

6. Input Offset Current

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

7. Input Resistance (Typical values for information)

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

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

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

9. Power Consumption (Typical values for information)

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

Certificate No: DAE4-856_Apr16

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SGS-TW (Auden)

Gerifficate No. EX3-3770_Apr16

CALIBRATION CERTIFICATE

EX3DV/I - SN 3770 Cities

DA CAL-01.v8. QA CAL-12.v9, QA CAL-14.v4. QA CAL-23.v5, Chlembon procession(n)

DA CAL-25.V6

Calibration procedure for dosimetric E-field probes

Calculation data April 27, 2016

This calibration conflicate documents the traceability to national atendants, which resure the physical units of menuturements (31). The measurements and the uncenternies with confidence probability are given on the following pages and are part of the confidence

All cultionships have been conducted in the closed laboratory facility: environment femperature (22 ± 3)°C and framidity = 75%

Coxtration Exporment used (M&TE cottool for calibration)

Printary Standards	(0)	Car Date (Certifican No.)	Schnicked Calibration
Power state NRP	3N: 104778	06-Apr-18 (No. 217-0286/0289)	Apr-17
Power sensor NRP-291	SN: 103244	06-Apr-18 (No. 217-02266)	Apr-17
Power sensor NRP-Z91	3N. 103245	06-Apr 16 (No. 217-02289)	Apr-17
Relatence 20 dB Attenuator	BN: 55277 (20x)	85-Apr-16 (No. 217 (2293)	Apr-17
Reference Probe ESSOV2	3N: 3013	31-Dec-15 (No. EES-3013_Dec15)	Dec-16
DAS4	SN: 660	23-Dec-15 (No. DAE4-680_Dec15)	Dec-16
Secondary Standards	1D	Check Date (in house)	Scheduled Check
Prover mater E44108	EN: G841293874	06-Apt-10 (No. 217-02285-02284)	In house check: Jun-16
Power sensor E4412A	EN: NY41498067	06-Apr-19 (No. 217-02285)	In house check: Jun-16
Power sensor EA412A	8N: 000110210	06-Apr-16 (No. 217-02284)	In house check: Jun-16
RP generator HP 65480	5N: US5642U91700	Q4-Aug-59 (in house alreck Apr-13)	In house check: Jun-15
Notwork Analyzer HP 9753E	SN: LS17390505	18-OH-01 (in house check Oct-15)	In house check: Oct-16

Function Disadio bushin Lucionatiny Feelmistan Carbrated by Approved by: Kasa Pokovio Text in call Manager Innued April 27, 2018 This calibration conficule shall not be reproduced except in 100 without written approximated the laboratory

Certificate No. EX3-3770_Apr16

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Engineering AG nusstrasse 43, 0004 Zurich, Switzerland





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Accreditation No.: SCS 0108

Accretified by the Swiss Appreciation Service (SAS)

The Swiss Accreditation Service is one of the signatories to the EA Multiliment Agreement for the recognition of calibration certificates

Glossary:

lissue simulating liquid TSL NORMX, y, z sensitivity in free space ConvF sensitivity in TSL / NORMx, y.z. DCP diode compression point

crest factor (1/duty_cycle) of the RF signal modulation dependent linearization parameters CF A.B.C.D

Palarization o retailor around probe sols

Polarization a a rotation around an axis that is in the plane normal to probe axis (at measurement center),

i.e., θ = 0 is normal to probe axis information used in DASY system to align probe sensor X to the robot coordinate system. Connector Angre

- Calibration is Performed According to the Following Standards:

 a) IEEE Std 1529-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Continuncations Devices; Measurement
 - Techniques", June 2013
 IEC 62209-1, "Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)", February 2005
 IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices.
 - used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)". March 2010 d) KDB 866864, SAR Measurement Requirements for 100 MHz to 6 GHz

Methods Applied and Interpretation of Parameters:

- NORMx,y,z. Assessed for E-field polarization 8 = 0 (F < 900 MHz in TEM-cell; f > 1900 MHz: R22 waveguide). NORMx,y,z are only intermediate values, i.e., the uncertainties of NORMx,y,z does not affect the E*-field uncertainty inside TSL (see below ConvF).
- NORM(f)x, y, z = NORMx, y, z * frequency_response (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response a included in the stated uncertainty of ConvF
- DCPx,y,z: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal (no uncertainty required). DCP does not depend on frequency nor media.
- PAR: PAR is the Peak to Average Ratio that is not calibrated but determined based on the skinst oharacteristics.
- Ax,y,z, Bx,y,z; Cx,y,z; Dx,y,z; VRx,y,z; A, B, C; D are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum calibration range expressed in RMS voltage across the diode.

 ConvF and Boundary Effect Parameters. Assessed in flat phantom using E-field (or Temperature Transfer.)
- Standard for I = 800 MHz) and inside waveguide using analytical field distributions based on power measurements for 1 > 800 MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds: to NORMby, z.* ConvF whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DASY version 4.4 and higher which allows extending the validity from ± 50 MHz to ± 100. MHz
- Spherical isotropy (3D deviation from isotropy): in a field of low gradients realized using a flat altendom exposed by a patch antenna
- Sensor Offset: The sensor affset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
- Connector Angle: The angle is assessed using the information galited by determining the MORMX (no uncertainty required).

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EX3DV4 -- SN:3770

April 27, 2016

Probe EX3DV4

SN:3770

Manufactured: Calibrated:

July 6, 2010 April 27, 2016

Calibrated for DASY/EASY Systems

(Note: non-compatible with DASY2 system!)

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EX3DV4-SN:3770

April 27, 2016

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

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm (µV/(V/m) ²) ^A	0.31	0.61	0.40	± 10.1 %
DCP (mV) ^a	100.4	97.4	102.0	

Modulation Calibration Parameters

UID	Communication System Name		A dB	B dB√μV	С	D dB	VR mV	Unc [±] (k=2)
0	CW	X	0.0	0.0	1.0	0.00	145.0	±2.2 %
		Y	0.0	0.0	1.0		148.7	
		Z	0.0	0.0	1.0		135.3	

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

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The uncertainties of Norm X,Y,Z do not affect the E²-field uncertainty inside TSL (see Pages 5 and 6).

⁸ Numerical linearization parameter: uncertainty not required.
⁷ Uncertainty is determined using the max, deviation from linear response applying rectangular distribution and is expressed for the square of the field value.



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EX3DV4-SN:3770

April 27, 2016

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

Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) ^C	Relative Permittivity ^F	Conductivity (S/m) F	ConvF X	ConvF Y	ConvF Z	Alpha ⁶	Depth ^G (mm)	Unc (k=2)
450	43.5	0.87	11.36	11.36	11.36	0.18	1.20	± 13.3 %
750	41.9	0.89	9.83	9.83	9.83	0.41	0.88	± 12.0 %
835	41.5	0.90	9.47	9.47	9.47	0.14	1.48	± 12.0 %
900	41.5	0.97	9.17	9.17	9.17	0.15	1.78	± 12.0 %
1750	40.1	1.37	8.19	8.19	8.19	0.12	1.68	± 12.0 %
1900	40.0	1.40	7.88	7.88	7.88	0.12	1.77	± 12.0 %
2000	40.0	1.40	7.91	7.91	7.91	0.14	1.61	± 12.0 %
2300	39.5	1.67	7.47	7.47	7.47	0.13	2.08	± 12.0 %
2450	39.2	1.80	7.12	7.12	7.12	0.14	2.00	± 12.0 %
2600	39.0	1.96	6.95	6.95	6.95	0.21	1.26	± 12.0 %
5250	35.9	4.71	5.03	5.03	5.03	0.40	1.80	± 13.1 %
5600	35.5	5.07	4.42	4.42	4.42	0.50	1.80	± 13.1 %
5750	35.4	5.22	4.83	4.83	4.83	0.50	1.80	± 13.1 %

⁰ Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), also it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty of calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Above 5 GHz frequency validity can be extended to ± 110 MHz.

**At frequencies below 3 GHz, the validity of tissue parameters (s and σ) can be released to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters [s and σ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

**AlphaCopts are detarmined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip demoler from the boundary.

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EX3DV4-- SN:3770

April 27, 2016

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

Calibration Parameter Determined in Body Tissue Simulating Media

f (MHz) ^C	Relative Permittivity*	Conductivity (SIm)	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ⁶ (mm)	Unc (k=2)
450	56.7	0.94	10.49	10.49	10.49	0.09	1.20	± 13.3 %
750	55.5	0.96	9.43	9.43	9.43	0.19	1.26	± 12.0 %
835	55.2	0.97	9.30	9.30	9.30	0.17	1.43	± 12.0 %
900	55.0	1.05	9.15	9.15	9.15	0.28	1.06	± 12.0 %
1750	53.4	1.49	7.88	7.88	7.88	0.10	2.60	± 12.0 %
1900	53.3	1.52	7.71	7.71	7.71	0.11	2.44	± 12.0 %
2000	53.3	1.52	7.82	7.82	7.82	0.18	1.42	± 12.0 %
2300	52.9	1.81	7.53	7.53	7.53	0.54	0.69	± 12.0 %
2450	52.7	1.95	7.37	7.37	7.37	0.80	0.56	± 12.0 %
2600	52.5	2.16	7.12	7.12	7.12	0.80	0.56	± 12.0 %
5250	48.9	5.36	4.34	4.34	4.34	0.50	1.90	± 13.1 %
5600	48.5	5.77	3.70	3.70	3.70	0.60	1.90	± 13.1 %
5750	48.3	5.94	4.07	4.07	4.07	0.60	1.90	±_13.1 %

Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), olse it is restricted to ± 50 MHz. The uncertainty is the RSS of the CornF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for CornF assessments at 30, 64, 128, 150 and 220 MHz respectively. Above 5 GHz frequency

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below 30t MHz s ± 10, 25, 40, 50 and 70 MHz for Contributes at 30, 64, 125, 50 and 250 min 250 min september 4, Model of the integration and the september 4 minutes below 3 GHz, the widdly of fissue parameters (s and o) can be relaxed to ± 10% if figuid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of fissue parameters (s and o) is restricted to ± 5%. The uncertainty is the RSS of the Contribute for indicated target tissue parameters.

AppenDepth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

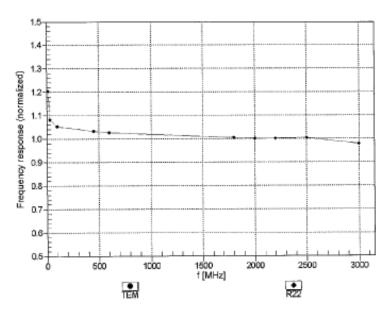


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April 27, 2016

Frequency Response of E-Field (TEM-Cell:ifi110 EXX, Waveguide: R22)



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

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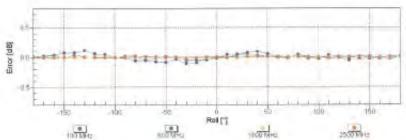


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Receiving Pattern (6), 9 = 0°





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

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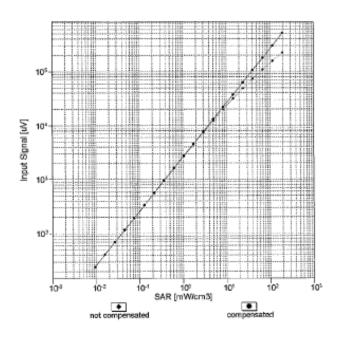
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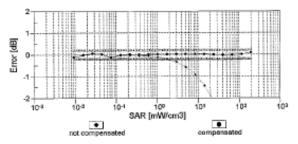


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Dynamic Range f(SAR_{head}) (TEM cell , feval= 1900 MHz)





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

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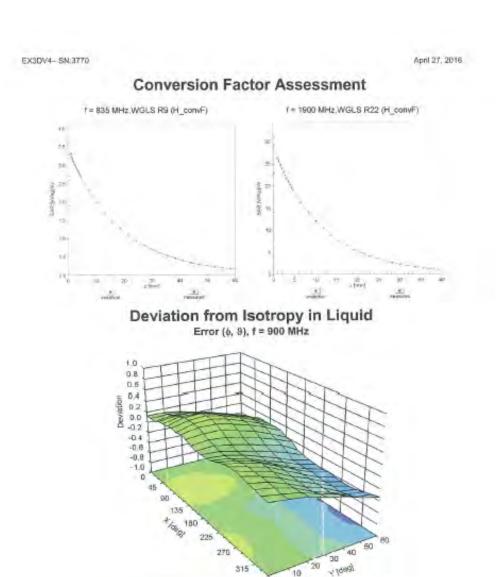
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-10 -0.8 -0.6 -0.4 -0.2 0.0 0.2 0.4 0.6 0.8 1.0 Uncertainty of Spherical Isotropy Assessment: ± 2.6% (k=2)

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EX3DV4-SN:3770

April 27, 2016

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

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	-29.9
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	9 mm
Tip Diameter	2.5 mm
Probe Tip to Sensor X Calibration Point	1 mm
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	1 mm
Recommended Measurement Distance from Surface	1.4 mm

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8. Uncertainty Budget

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

	1	ement ond	, , ,			l	· · · · · · · · · · · · · · · · · · ·		
A	С	D	е		f	g	h=c * f / e	i=c * g / e	k
Source of Uncertainty	Tolerance/ Uncertainty	Probabilit y	Div	Div Value	ci (1g)	ci (10g)	Standard uncertainty	Standard uncertainty	vi, or Veff
Measurement system									
Probe calibration	6.55%	N	1	1	1	1	6.55%	6.55%	œ
Isotropy , Axial	3.50%	R	√3	1.732	1	1	2.02%	2.02%	œ
Isotropy, 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%	8
Boundary Effect	1.00%	R	√3	1.732	1	1	0.58%	0.58%	œ
Linearity	4.70%	R	√3	1.732	1	1	2.71%	2.71%	œ
Detection Limits	1.00%	R	√3	1.732	1	1	0.58%	0.58%	œ
Readout Electronics	0.30%	N	1	1	1	1	0.30%	0.30%	œ
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%	œ
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%	∞
RF ambient conditions - reflections	3.00%	R	√3	1.732	1	1	1.73%	1.73%	œ
Probe positioner Mechanical restrictions	0.40%	R	√3	1.732	1	1	0.23%	0.23%	∞
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%	∞
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%	œ
Phantom and Setup									
Phantom Uncertainty	4.00%	R	√3	1.732	1	1	2.31%	2.31%	œ
Liquid permittivity (mea.)	2.30%	N	1	1	0.64	0.43	1.47%	0.99%	М
Liquid Conductivity (mea.)	2.55%	N	1	1	0.6	0.49	1.53%	1.25%	М
Combined standard uncertainty		RSS					11.91%	11.81%	
Expant uncertainty (95% confidence							23.81%	23.63%	

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

А	С	D	е		f	g	h=c * f / e	i=c * g / e	k
Source of Uncertainty	Tolerance/ Uncertainty	Probabilit y	Div	Div Value	ci (1g)	ci (10g)	Standard uncertainty	Standard uncertainty	vi, or Veff
Measurement system									
Probe calibration	6.00%	N	1	1	1	1	6.00%	6.00%	∞
Isotropy , Axial	3.50%	R	√3	1.732	1	1	2.02%	2.02%	∞
Isotropy, Hemispherical	9.60%	R	√3	1.732	1	1	5.54%	5.54%	∞
Modulation Response	2.40%	R	√3	1.732	1	1	1.40%	1.40%	~
Boundary Effect	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Linearity	4.70%	R	√3	1.732	1	1	2.71%	2.71%	∞
Detection Limits	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Readout Electronics	0.30%	N	1	1	1	1	0.30%	0.30%	∞
Response time	0.80%	R	√3	1.732	1	1	0.46%	0.46%	∞
Integration Time	2.60%	R	√3	1.732	1	1	1.50%	1.50%	∞
Measurement drift (class A evaluation)	1.75%	R	√3	1.732	1	1	1.01%	1.01%	∞
RF ambient condition -	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	2.90%	R	√3	1.732	1	1	1.67%	1.67%	∞
Post-processing	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Max SAR Eval	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Test Sample related									
Test sample positioning	2.90%	N	1	1	1	1	2.90%	2.90%	M-1
Device Holder Uncertainty	3.60%	N	1	1	1	1	3.60%	3.60%	M-1
Drift of output power	5.00%	R	√3	1.732	1	1	2.89%	2.89%	∞
Phantom and Setup									
Phantom Uncertainty	4.00%	R	√3	1.732	1	1	2.31%	2.31%	∞
Liquid permittivity (mea.)	4.48%	N	1	1	0.64	0.43	2.87%	1.93%	М
Liquid Conductivity (mea.)	4.93%	N	1	1	0.6	0.49	2.96%	2.42%	М
Combined standard uncertainty		RSS					12.14%	11.82%	
Expant uncertainty (95% confidence							24.28%	23.64%	

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9. Phantom Description

Schmid & Partner Engineering AG e Zeughausstrases 42, 8004 Zurich, Switzelland Phona +41 1 245 9700, Fax +41 1 245 9779 Info@sparg.com, http://www.apeag.com Certificate of Conformity / First Article Inspection QD 000 P40 C TP-1150 and higher Type No Manufacture Zeughausstrasse 43 CH-8004 Zürich Switzerland Tests The series production process used allows the limitation to test of first articles.

Complete tests were made on the pre-series Type No. QD 000 P40 AA. Serial No. TP-1001 and on the series first article Type No. QD 000 P40 BA. Serial No. TP-1006. Certain parameters have been retested using further series items (galled samples) or are tested at each item. Test Units tested Requirement Details IT'IS CAD File (*) Compliant with the geometry according to the CAD model. Compliant with the requirements Samples Material thickness 2mm +/- 0.2mm in flat of shell according to the standards and specific areas of Samples. head section 5mm +/- 0.2mm at ERP TP-1314 ff. Compliant with the requirements according to the standards Dielectric parameters for required Material thickness First article: at ERP Materia 300 MHz - 6 GHz Material parameters Relative permittivity Loss tangent < 0.05 DEGMBE based The material has been tested to be compatible with the liquids defined in Material resistivity

Sagging

- CENELEC EN 50361
- IEEE Std 1528-2003 IEC 62209 Part I

- FCC OET Builetin 65, Supplement C, Edition 01-01
 The IT'IS CAD file is derived from [2] and is also within the tolerance requirements of the shapes of the other documents.

Based on the sample tests above, we certify that this item is in compliance with the uncertainty requirements of SAR measurements specified in standards [1] to [4]

07.07.2005

the standards if handled and cleaned

Observe technical Note for material compatibility
Compliant with the requirements according to the standards.

Sagging of the flat section when filled

according to the instructions.

with tissue simulating figuid

School & Parsinir Engineering AQ Trightauspices 43, 8004 Zurjer, Switzerland Phone 45, 1,965 97007 22-48 by 245 9778 Into Papara, Com. https://doi.org/10.1007/19.

simulating liquids

< 1% typical < 0.8% if filled with 155mm of HSL900 and without

DUT below

Doc He Mt - QD 000 P40 C - =

Signature / Stamp

Photo

First article.

Prototypes, Sample

Material

samples

T(1)

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10. System Validation from Original Equipment Supplier

Calibration Laboratory of Schmid & Partner Engineering AG Zoughausstrasse 43, 9004 Zurich, Switzerland





Accredited by the Swiss Accreditation Service (SAS)

The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration cartificates

SGS-TW (Auden)

Accreditation No.: SCS 0108

Certificate No: D750V3-1015 Aug 16

	ERTIFICATE		
Object	D750V3 - SN: 10	115	
Calibration procedure(s)	QA CAL-05.v9	dure for dipole validation kits abo	we 700 MHz
	Seattle Market process	data to apone remains into the	Are Townse
Carbratinn date:	August 30, 2016		
The measurements and the unco	rtainties with confidence p	ional standards, which realize the physical un robability are given on the following pages an ry facility: environment temperature (22 ± 3)*	d are part of the certificate.
Calibration Equipment used (M&	FE critical for calibration)		
Primary Standards	10.4	Cal Date (Certificate No.)	Schaduled Calibration
Power mater NRP	SN: 104778	06-April 16 (No. 217-02288/02288)	Apr-17
	Service Contraction		and the second second
Power sensor NRP-Z91	SN: 103244	06-April 15 (No. 217-02288)	Apr-17
Service and the Service of Servic	SN: 103244 SN: 109245	06-Apr-15 (No. 217-02288) 06-Apr-16 (No. 217-02289)	Apr-17 Apr-17
Power sensor NAP-Z91	2001		
Power sensor NAP-291 Reference 20 dB Attenuator	SN: 100245	06-Apr-16 [No. 217-02289]	Apr-17
Power sensor NAP-291 Reference 20 dB Attenuator Type-N mismatch combination	SN: 100245 SN: 5068 (20k)	06-Apr-16 (No. 217-02280) 05-Apr-16 (No. 217-02292)	Apr-17 Apr-17
Power sensor NRP-291 Reference 20 dB Attenuator Type-N mismatch combination Reference Prote EX3DV4	SN: 100245 SN: 5058 (20x) SN: 5047.2 / 06327	06-Apr-16 (No. 217-02280) 06-Apr-16 (No. 217-02292) 06-Apr-16 (No. 217-02295)	Apr-17 Apr-17 Apr-17
Power sensor NRP-Z91 Power sensor NRP-Z91 Reference 20 dB Attenuator Type-N mismalth combination Reference Prote EX3094 DAE4 Secondary Standards	SN: 169245 SN: 5668 (20k) SN: 5647.2 / 66327 SN: 7349	06-Apr-16 (No. 217-02280) 06-Apr-16 (No. 217-02292) 06-Apr-16 (No. 217-02290) 15-Jun-16 (No. EX3-7349 Jun16) 30-Cec-15 (No. DAE4-601 Dec15) Check Date (in house)	Apr.17 Apr.17 Apr.17 Jun-17 Dac-16 Scheduled Check
Power sensor NAP-291 Reterence 20 dB Attenuator Type-N mismatch combination Reterence Probe EX3DV4 DAE4 Secondary Standards	SN: 100245 SN: 5068 (20k) SN: 5047.2 / 06327 SN: 7349 SN: 601	06-Apr-16 (No. 217-02289) 05-Apr-16 (No. 217-02292) 05-Apr-16 (No. 217-02295) 15-Jun-16 (No. EX3-7349 _aun16) 30-Cec-15 (No. DAE4-601 _Dec15) Check Date (in house) 07-Oct-15 (No. 217-02222)	Apr.17 Apr.17 Apr.17 Jun-17 Dec-16 Scheduled Check In house check: Oct-16
Power sensor NRP-291 Retarence 20 cB Attenuator Type-N mismatch combination Reterence Prote EX3DV4 DAE4 Secondary Standards Power moter EPM-442A	SN: 160245 SN: 5668 (20k) SN: 5647.2 / 06327 SN: 7349 SN: 601	06-Apr-16 (No. 217-02280) 06-Apr-16 (No. 217-02292) 06-Apr-16 (No. 217-02290) 15-Jun-16 (No. EX3-7349 Jun16) 30-Cec-15 (No. DAE4-601 Dec15) Check Date (in house)	Apr-17 Apr-17 Apr-17 Jun-17 Dec-16 Scheduled Check In house check: Oct-16 In house check: Oct-16
Power sensor NAP-291 Reterence 20 dB Attenuator Type-N mismatch combination Reterence Prote EX3DV4 DAE4 Secondary Standards Power Inster EPM-442A Power standard HP 8481A	SN: 100245 SN: 5058 (20k) SN: 5047.2 / 06327 SN: 7349 SN: 601	06-Agr-16 (No. 217-02289) 06-Agr-16 (No. 217-02299) 05-Agr-16 (No. 217-02299) 15-Jun-16 (No. EX3-7349 Jun16) 30-Cec-15 (No. DAE4-601 Dec15) Check Date (in house) 07-Oct-15 (No. 217-02222) 07-Oct-16 (No. 217-02222)	Apr.17 Apr.17 Apr.17 Jun-17 Jun-17 Dec-16 Scheduled Check In house check: Oct-16 In house check: Oct-16 In house check: Oct-16 In house check: Oct-16
Power sensor NRP-291 relaterace 20 dB Attanuator Fyge-N mismatch combination Reterence Prote EX3DV4 DAE4 Secondary Standards Power mater EPM-442A Power sensor HP 8481A	SN: 100245 SN: 5008 (20tr) SN: 5047.2 / 06027 SN: 7549 SN: 601 ID 4 SN: G837400704 SN: US37292783	06-Apr-16 (No. 217-02280) 06-Apr-16 (No. 217-02292) 06-Apr-16 (No. 217-02292) 15-Jun-16 (No. EX3-7349_Jun16) 30-Cec-15 (No. DA64-601_Dec15) Check Date (in house) 07-Oct-15 (No. 217-02222) 07-Oct-16 (No. 217-02222) 15-Jun-15 (in house check Jun-16)	Apr.17 Apr.17 Apr.17 Jun-17 Dac-16 Scheduled Check In house check: Oct-16
Power sensor NRP-291 Ratarence 20 dB Attenuator Type- N mismatch combination Reference Probe EX3094 DAE4 Secondary Standards Power Index EPM-442A Power sensor HP 8481A Properator R&S SMT-06	SN: 163245 SN: 5668 (20k) SN: 5647.2 / 06327 SN: 7549 SN: 601 ID 4 SN: G837460704 SN: USS7292783 SN: MY41082317	06-Agr-16 (No. 217-02289) 06-Agr-16 (No. 217-02299) 05-Agr-16 (No. 217-02299) 15-Jun-16 (No. EX3-7349 Jun16) 30-Cec-15 (No. DAE4-601 Dec15) Check Date (in house) 07-Oct-15 (No. 217-02222) 07-Oct-16 (No. 217-02222)	Apr.17 Apr.17 Apr.17 Jun-17 Dac-16 Scheduled Check In house check: Oct-16
Power sensor NRP-291 Retarence 20 cB Attenuator Type-N mismatch combination Retarence Probe EX3094 DAE4 Secondary Standards Power motor EPM-442A Power sensor HP 8481A RF generator R&S SMT-06	SN: 169245 SN: 5668 (200) SN: 5647.2 / 06927 SN: 5647.2 / 06927 SN: 661 SN: 6637460704 SN: G637460704 SN: US37282783 SN: MY41082317 SN: 100072 SN: US37390585	06-Apr-16 (No. 217-02289) 06-Apr-16 (No. 217-02292) 06-Apr-16 (No. 217-02292) 15-Jun-16 (No. EX3-7349 _Jun-16) 30-Cec-15 (No. DAE4-601 _Dec15) Check Date (in house) 07-Oct-15 (No. 217-02222) 07-Oct-16 (No. 217-02222) 07-Oct-16 (No. 217-02223) 15-Jun-15 (No. 217-02223) 15-Jun-15 (no. 217-02223) 15-Jun-15 (no. 217-0223)	Apr-17 Apr-17 Apr-17 Jun-17 Dec-16
Power sensor NRP-291 Reterence 20 dB Attornator Type-N mismalch combination Reterence Prote EX3DV4 DAE4 Secondary Standards Power factor EPM-442A Power stansor HP 8481A	SN: 100245 SN: 5008 (20k) SN: 5047.2 / 06327 SN: 7349 SN: 601 ID 4 SN: G837460704 SN: USS7282783 SN: MY41062317 SN: 100072 SN: USS7390585	06-Apr-16 (No. 217-02289) 05-Apr-16 (No. 217-02292) 05-Apr-16 (No. 217-02292) 15-Jun-16 (No. EX3-7349 Jun16) 30-Dec-15 (No. DAE4-601 Dec15) Check Date (in house) 07-Oct-15 (No. 217-02222) 07-Oct-15 (No. 217-02223) 15-Jun-15 (No. 217-02223) 15-Jun-15 (n house check Jun-15) 18-Oct-01 (in house check Oct-15)	Apr.17 Apr.17 Apr.17 Jun-17 Dac-16 Scheduled Check In house check: Oct-16
Power sensor NRP-291 Reterence 20 dB Attornator Type-N mismalch combination Reterence Probe EX3DV4 DAE4 Secondary Standards Power mater EPM-442A Power sensor HP 8481A Promer sensor HP 8481A HF cenerator R&S SMT-06 Network Analyzer HP 8763E	SN: 169245 SN: 5668 (200) SN: 5647.2 / 06927 SN: 5647.2 / 06927 SN: 661 SN: 6637460704 SN: G637460704 SN: US37282783 SN: MY41082317 SN: 100072 SN: US37390585	06-Apr-16 (No. 217-02289) 06-Apr-16 (No. 217-02292) 06-Apr-16 (No. 217-02292) 15-Jun-16 (No. EX3-7349 _Jun-16) 30-Cec-15 (No. DAE4-601 _Dec15) Check Date (in house) 07-Oct-15 (No. 217-02222) 07-Oct-16 (No. 217-02222) 07-Oct-16 (No. 217-02223) 15-Jun-15 (No. 217-02223) 15-Jun-15 (no. 217-02223) 15-Jun-15 (no. 217-0223)	Apr.17 Apr.17 Apr.17 Jun-17 Dac-16 Scheduled Check In house check: Oct-16

Certificate No: D750V3-1015_Aug16

Page 1 at 8:

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C Service suisse d'étalonnage
Servizio avizzaro di tarature
S Swiss Calibration Service

According by the Swiss Accordington Service (SAS)

The Swise Accordington Service is one of the signatories to the EA

Glossary:

TSL tissue simulating liquid

ConvF sensitivity in TSL / NORM x.y.z N/A not applicable or not measured

Multisterni Agreement for the recognition of calibration certificans

Calibration is Performed According to the Following Standards.

a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) In the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013

 b) IEC 62209-1, "Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)", February 2005

 iEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010

d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

e) DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions: Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL: The dipole is mounted with the spacer to position its feed
 point exactly below the center marking of the flat phantom section, with the arms oriented
 parallel to the body axis.
- Feed Point Impedance and Return Loss: These parameters are measured with the dipole
 positioned under the liquid filled phantom. The impedance stated is transformed from the
 measurement at the SMA connector to the feed point. The Return Loss ensures low
 reflected power. No uncertainty required.
- Electrical Delay: One-way delay between the SMA connector and the antenna feed point.
 No uncertainty required.
- . SAR measured: SAR measured at the stated antenna input power.
- SAR normalized: SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters: The measured TSL parameters are used to calculate the nominal SAR result.

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

Certificate No: D750V3 (015 Aug10

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Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY5	V52.8.B
Advanced Extrapolation	
Modular Flat Phanton	
13 mm.	with Spacer
dx, dy, dz = 5 mm	
750 MHz ± 1 MHz	
	Advanced Extrapolation Modular Flat Phanton 19 mm dx, dy, dz = 5 mm

Head TSL parameters

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	41.9	0.89 m/no/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	42.4 ± 6 %	0.91 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	_	

SAR result with Head TSL

SAR averaged over 1 cm ² (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	2.11 W/kg
SAR for nominal Head TSL parameters	normalized to 1V9	8.32 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	250 mW input power	1.38 W/kg
SAR for nominal Head TSL parameters	Wr of busilsemen	5.45 W/kg ± 16.5 % (k=2)

Body TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22,0 °C	55.5	0,96 mholm
Measured Body TSI, parameters	(22.0 ± 0.2) °C	54.9 ± 6 %	0,99 mha/m ± 5 %
Body TSL temperature change during tool	<0.5°C	-	-

SAR result with Body TSL

SAR averaged over 1 cm2 (1 g) of Body TSL	Condition	
SAFI measured	250 mW input power	2,25 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	8.77 W/kg ± 17.0 % (k±2)

SAR averaged over 10 cm1 (10 g) of Body TSL	nontition	
SAFI measured	250 mW input power	1.47 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	5.76 W/kg ± 16.5 % (k±2)

Certificato No: 0750V3-1015_Aug16

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Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	53.1 Ω - 0.2 <u>Ω</u>	
Hatten Loss	30.5 dB	

Antenna Parameters with Body TSL

Impedance, transformed to feed point	49.0 Q - 2.0 JQ	
Return Loss	30.5 dB	

General Antenna Parameters and Design

Electrical Delay (one direction)	1,037 ns
----------------------------------	----------

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard similigid coaxial cable. The center conductor of the leading line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the clipple arms in order to improve matching when leaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR date are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be explied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG	
Manufactured on	March 22, 2010	

Cartilicate No. 0780V3-1015_Aug16

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DASY5 Validation Report for Head TSL

Date: 30,08,2016

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 750 MHz; Type: D750V3; Serial: D750V3 - SN: 1015

Communication System: UID 0 - CW; Frequency: 750 MHz

Medium parameters used: f = 750 MHz, $\sigma = 0.91 \text{ S/m}$; $\varepsilon_t = 42.4$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

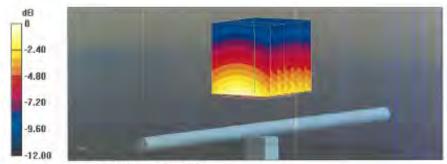
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 SN7349; ConvF(10.07, 10.07, 10.07); Calibrated: 15.06.2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 30.12,2015
- Phantom: Flat Phantom 4.9L; Type: QD000P49AA; Serial: 1001
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7372)

Dipole Calibration for Head Tissue/Pin=250 mW, d=15mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 58.26 V/m; Power Drift = 0.02 dB Peak SAR (extrapolated) = 3.16 W/kg SAR(1 g) = 2.11 W/kg; SAR(10 g) = 1.38 W/kg Maximum value of SAR (measured) = 2.81 W/kg



0 dB = 2.81 W/kg = 4.49 dBW/kg

Certificate No: D750V3-1015_Aug16

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DASY5 Validation Report for Body TSL

Date: 30.08.2016

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 750 MHz; Type: D750V3; Serial: D750V3 - SN: 1015

Communication System: UID 0 - CW; Frequency: 750 MHz

Medium parameters used: l = 750 MHz; $\sigma = 0.99 \text{ S/m}$; $\epsilon_r = 54.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

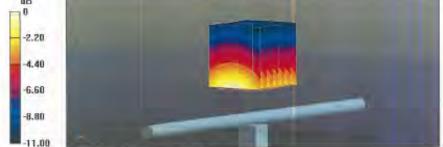
DASY52 Configuration:

- Probe: EX3DV4 SN7349; ConvF(9.99, 9.99, 9.99); Calibrated: 15.06.2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 30.12.2015
- Phantom: Flat Phantom 4.9L; Type: QD000P49AA; Serial: 1001.
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7372)

Dipole Calibration for Body Tissue/Pin=250 mW, d=15mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 57.47 V/m; Power Drift = -0.01 dB Peak SAR (extrapolated) = 3.39 W/kg SAR(1 g) = 2.25 W/kg; SAR(10 g) = 1.47 W/kg





0 dB = 2.97 W/kg = 4.73 dBW/kg

Certificate No: D750V3-1015_Aug16

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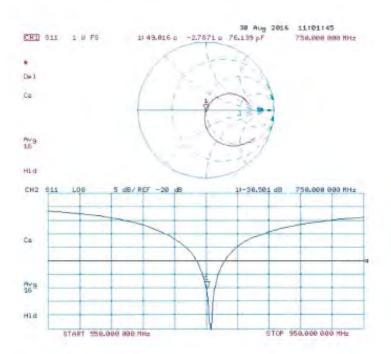
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Impedance Measurement Plot for Body TSL



Certificate No: D750V3-1015_Aug16

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





Schweizenscher Kalbrierdienet S Service suisse d'étalonnage C Servizio avizzero di taratura S Swiss Calibration Service

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

The Swise Accreditation Service is one of the signaturies to the EA Multilateral Agreement for the recognition of calibration certificates.

SGS-TW (Auden)

Certificate No: D835V2-4d063 Aug16

	ERTIFICATE		
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Calibration Equipment issed (M&	TE critical for calibration)	Gal Detri (Cerifficalls No.)	Scheduled Calibration
Primary Standards Power mose NEP	5W: 104778	DS Apr 15 (No. 217-02288/02289)	Apr-17
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OWEL SHIRKS NRP-Z91	SNL 103240	06-Apr-10 (No. 217-02989)	Apr-17
	SN: 5058 (20k)	05-Apr-16 (No. 217-08292)	Apr-17
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ype-N mismatch combination	CN- TOUR		
Type-N mismatch combination Reference Probe EXSDV4	SN: 7348 SN: 601	15-Jun-16 (No. EX3-7340_Jun16) 30-Dec-15 (No. DAE4-801_Dec15)	Dec/16
Type-N mismatch combination Reference Probe EXSDV4 DAE4	The state of the s		Dep-16 Beneduler Check
Fyce-N mismatch combination Reference Probe EX3DV4 DAE4 Biscondary Standards	SN: 601	30-Dec-15 (No. DAE4-801_Dec15)	Scheduled Check
Type-N mismatch combination Reference Probe EXSDV4 DAE4 Secondary Standards Power mater EPM-442A	SN: 601	30-Dec-15 (No. DAE4-801_Dec15) Check Date (in nouse)	Scheduled Check
Type-N mismatch combination Reference Probe EXSDV4 DAE4 Biscondary Standards Power mater EPN-142A Power standard HP 8481A	5N: 601 ID # SN: GB37480704	30-Dec-15 (No. DAE4-B01_Dec15) Check Date (in house) 07-Oct-15 (No. 237-02222)	Senaduled Check In house check: Oct-16
Fyce-N mismatch combination Reference Probe EXSDV4 DAE4 Biscondary Standards Power meter EPN-142A Power sensor HP 8481A	SN: 661 ID # SN: GB37480704 SN: US37252783	30-Dec-15 (No. DAE4-B01_Dec15) Check Date (in house) 07-Oct-15 (No. 277-02222) 07-Oct-15 (No. 277-02222)	Beneduled Check In house theok: Oct-16 In house check: Oct-16
Type-N mismatch combination Reference Probe EX30V4 DAE4 Biscondary Standards Power meter EFM-142A Power sensor HP 8481A IF generator HP 8481A	SN: 661 ID # SN: GB37480704 SN: UB37250789 SN: MY41002317	30-Dec-15 (No. DAE4-B01_Dec15) Check Date (in nouse) 07-Oct-15 (No. 217-02222) 07-Oct-15 (No. 217-02222) 07-Oct-16 (No. 217-02223)	Senschiller Ehleck in house check: Dct-18 in house check: Dct-18 fir house check: Dct-18 in house check: Dct-18
Type-N mismatch combination Reference Probe EXSDV4 DAE4 Siscondary Standards Power meter EFNI-142A Power sensor HP 8481A DE generalor FAS SMT-06	SN: 661 ID # SN: GB37480704 SN: US37252783 SN: MY41002317 SN: 100972 SN: US37390505 Martie	30-Dec-15 (No. DAE4-B01_Dec15) Check Date (in nouse) 07-Oct-15 (No. 217-02222) 07-Oct-15 (No. 217-02222) 07-Oct-16 (No. 217-02222) 15-Jun-15 (in house check Jun-10) 18-Oct-07 (in house check Jun-10) Function	Senedulen Check In house check: Oct-16 In house check: Oct-16 In house check: Oct-16
Reference 20 dB Attenuator Type-N mismatch combination Reference Probe EXSDV4 DAE4 Bacondary Standards Power meter EFM-142A Power sensor HP 8481A DF generalor FAS SMT-06 Network Analyzin HP 8753E Cathraled by:	SN: 561 ID # SN: GBS7480704 SN: UBS7252783 SN: WY41002317 SN: 100972 SN: USS7390505	30-Dec-15 (No. DAE4-B01_Dec15) Check Date (in neuse) 07-Oct-15 (No. 277-02222) 07-Oct-16 (No. 277-02222) 07-Oct-16 (No. 277-02222) 15-Jun-15 (in house check Jun-10) 18-Oct-01 (in house check Jun-15)	Sepeduled Check in house check: Oct-18 in house check: Oct-16 to house check: Oct-16 in house check: Oct-16
Type-N mismatch combination Reference Probe EXSDV4 DAE4 Secondary Standards Power meter EFM-442A Power sensor HP 8481A Power sensor HP 8481A DE generalor FAS SMT-06 Network Analyzer HP 8753E	SN: 661 ID # SN: GB37480704 SN: US37252783 SN: MY41002317 SN: 100972 SN: US37390505 Martie	30-Dec-15 (No. DAE4-B01_Dec15) Check Date (in nouse) 07-Oct-15 (No. 217-02222) 07-Oct-15 (No. 217-02222) 07-Oct-16 (No. 217-02222) 15-Jun-15 (in house check Jun-10) 18-Oct-07 (in house check Jun-10) Function	Sepeduled Check in house check: Oct-18 in house check: Oct-16 to house check: Oct-16 in house check: Oct-16

Certificate No: D835V2-4d953_Aug16

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Calibration Laboratory of Schmid & Partner Engineering AG ughtusstrassu 43, 8004 Zurich, Switzenund





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Accreditation No.: SCS 0108

Acres and by the Swiss Accession Sewice (SAS)

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Glossary:

TSU tissue simulating liquid

ConvF sensitivity in TSL / NORM x,y,z N/A not applicable or not measured

Calibration is Performed According to the Following Standards:

- a) IEEE Std 1528-2013, TEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices Measurement Techniques", June 2013
- b) IEC 62209-1, 'Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)*.
- EC 62209-2, "Procedure to determine the Specific Absorption Flate (SAR) for wireless. communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)*, March 2010
- d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

e) DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions: Further details are available from the Validation Report at the and of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL. The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- Feed Point Impedance and Return Loss: These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- Electrical Delay: One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- SAR measured: SAR measured at the stated antenna input power.
- SAR normalized: SAR as measured, normalized to an input power of 1 W at the antenna conhector.
- SAR for naminal TSL parameters: The measured TSL parameters are used to calculate the nominal SAR result.

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

Gertfligate No. Dea5V2-48063 Aug16

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Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASY5	V52.8.8
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL.	15 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	835 MHz = 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Parmittivity	Conductivity
Nominal Head TSL parameters	22,0 °C	41.5	0,90 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	42.1 ± 6 %	0.93 mha/m ± 6 %
Head TSL lemperature change during test	< 0.5 °C		-

SAR result with Head TSL

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	2.40 W/kg
SAR for nominal Head TSL parameters	W of basilermon	9.40 W/kg = 17.0 % (k=2)

SAR averaged over 10 cm ² (10 g) of Head TSL	condition	
SAFI measured	250 mW input power	1.54 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	5.05 W/kg ± 15.5 % (k=2)

Body TSL parameters

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	55.2	0.97 mhoym
Measured Body TSL parameters	(22.0 ± 0.2) °C	54.7 ± 6.%	1.01 mbom = 5 %
Body TSL temperature change during test	< 0,5 °C	-	-

SAR result with Body TSL

SAR averaged over 1 cm ² (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	2.47 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	9.57 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm2 (10 g) of Body TSL	candition	
SAR measured	250 mW input power	i.et W/kg
SAR for nominal Body TSL parameters	normalized to 1W	8,28 W/kg ± 16,5 % (k=2)

Certificate No. D835V2-4d063_Aug 16

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Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impadance, transformed to feed point	51.2 \Omega - 2.8 j\Omega	
Helum Loss	- 30.3 dB	

Antenna Parameters with Body TSL

Impedance, transformed to feed point	47.3 Ω - 5.5 jΩ
Relum Loss	-24.0 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.392 ns
----------------------------------	----------

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The entermal is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when leaded according to the position as explained in the "Messurement Conditions" paragraph. The SAFI data are not affected by this change. The overall dipole length is still according to the Standard.

No excussive force must be applied to the dipole arms, because they might bend of the solidered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG	
Manufactured on	November 27, 2006	

Certificate No. D535V2-4d063_Aug16

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DASY5 Validation Report for Head TSL

Date: 25.08.2016

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN:4d063

Communication System: UID 0 - CW; Frequency: 835 MHz

Medium parameters used: f = 835 MHz; $\sigma = 0.93$ S/m; $\epsilon_r = 42.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

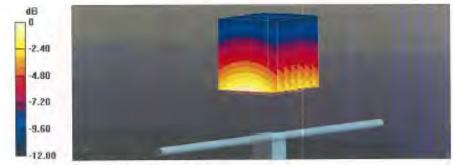
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 SN7349; ConvF(9.72, 9.72, 9.72); Calibrated: 15.06.2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 30.12.2015
- Phantom: Flat Phantom 4.9L; Type: QD000P49AA; Serial: 1001
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7372)

Dipole Calibration for Head Tissue/Pin=250 mW, d=15mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 61.75 V/m; Power Drift = 0.03 dB Peak SAR (extrapolated) = 3.65 W/kg SAR(1 g) = 2.4 W/kg; SAR(10 g) = 1.54 W/kg Maximum value of SAR (measured) = 3.24 W/kg



0 dB = 3,24 W/kg = 5,11 dBW/kg

Certificate No: D835V2-4d063_Aug16

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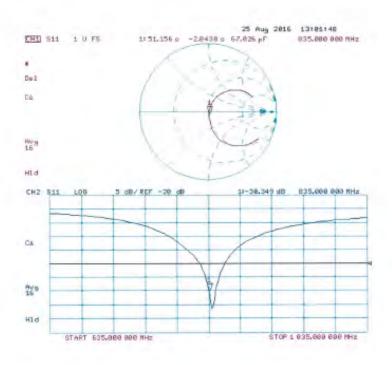
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Impedance Measurement Plot for Head TSL



Certificate No: D635V2-4d063_Aug16

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DASY5 Validation Report for Body TSL

Date: 25.08.2016

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 835 MHz; Type; D835V2; Serial: D835V2 - SN:4d063

Communication System: LID 0 - CW; Frequency; 835 MHz

Medium parameters used: f = 835 MHz; $\sigma = 1.01$ S/m; $\epsilon_c = 54.7$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63 19-2011)

DASY52 Configuration:

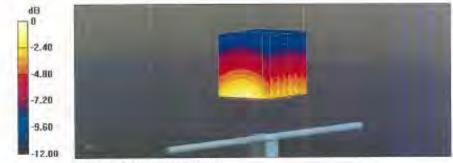
- Probe: EX3DV4 SN7349; ConvF(9.73, 9.73, 9.73); Calibrated: 15.06.2016;
- Sensor-Surface: L4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 30.12.2015
- Phantom: Flat Phantom 4.9L.; Type: QD000P49AA; Serial: 1001
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7372)

Dipole Calibration for Body Tissue/Pin=250 mW, d=15mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 59.83 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 3.63 W/kg

SAR(1 g) = 2.47 W/kg; SAR(10 g) = 1.61 W/kgMaximum value of SAR (measured) = 3.25 W/kg



0 dB = 3.25 W/kg = 5.12 dBW/kg

Certificate No: DB35V2-4d003_Aug16

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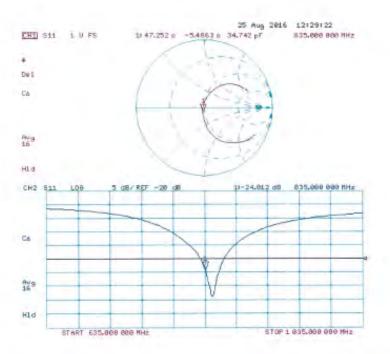
No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803/新北市五股區新北產業園區五工路 134 號 t (886-2) 2299-3279 f (886-2) 2298-0488

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Impedance Measurement Plot for Body TSL



Certificate No: D835V2-4d063_Aug16

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





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Multilateral Agreement for the recognition of calibration certificates

Client SGS-TW (Auden)

Accreditation No.: SCS 0108

Cortificate No: D1750V2-1008_Aug16

Dioject	D1750V2 - SN:10	900	
Calibration procedure(s)	QA CAL-05.v9 Calibration proce	dure for dipole validation kits abo	ove 700 MHz
Salibration date:	August 31, 2016		
the measurements and the unce	ertainties with confidence p	onal standards, which realize the physical un indebitity are given on the tollowing pages an ny legitry: environment température (22 ± 3)°C	d are part of the cestificate.
Calibration Equipment used (MS		7 2227	
on ary Standards	10 #	Cal Date (Certificate No.)	Scheduled Calibration
	SN: 164778	06-Api-16 (No. 217-02288/02289)	Apr-17
ower meter NAP	SN: 104778 SN: 103244	06-Api-16 (No. 217-02288/02299) 06-Api-16 (No. 217-02288)	Apr-17 Apr-17
Power meter NAP Power sensor NAP-791 Power sensor NAP-791	SN: 164778 SN: 103244 SN: 103245	06-Api-16 (No. 217-02288/02289) 06-Api-16 (No. 217-02288) 06-Api-16 (No. 217-02289)	Apr-17 Apr-17 Apr-17
Power meter NAP Power sensor NAP-Z91 Power sensor NAP-Z91 Reference 20 dB Attenuator	SN: 104778 SN: 103244 SN: 103245 SN: 5058 (20k)	06-Api-16 (No. 217-02288/02289) 06-Api-16 (No. 217-02288) 06-Api-16 (No. 217-02289) 06-Api-16 (No. 217-02292)	Apr-17 Apr-17 Apr-17 Apr-17
ower meter NRP ower sensor NRP-Z91 ower sensor NRP-Z91 leterence 20 dB Attenuator ype-N mismatch combination	SN: 104778 SN: 103244 SN: 103245 SN: 5068 (20k) SN: 5047.2 / 06827	06-Api-16 (No. 217-02288/02289) 06-Api-16 (No. 217-02288) 06-Api-16 (No. 217-02289) 06-Api-16 (No. 217-02292) 06-Api-18 (No. 217-02296)	Apr-17 Apr-17 Apr-17 Apr-17 Apr-17
ower meter NAP ower sensor NAP-Z91 fower sensor NAP-Z91 felterence 20 dB Attenuator yos-N mismatch combination felsience Probe EX3DV4	SN: 164778 SN: 103244 SN: 103245 SN: 5058 (20k) SN: 5047.2 / 06327 SN: 7349	06-Api-16 (No. 217-02288/02269) 06-Api-16 (No. 217-02288) 06-Api-16 (No. 217-02289) 06-Api-16 (No. 217-02292) 06-Api-16 (No. 217-02295) 15-Jun-16 (No. EX3-7349_Jun16)	Apr-17 Apr-17 Apr-17 Apr-17 Apr-17 Jun-17
Power meter NAP Power sensor NRP-Z91 Power N	SN: 104778 SN: 103244 SN: 103245 SN: 5068 (20k) SN: 5047.2 / 06827	06-Api-16 (No. 217-02288/02289) 06-Api-16 (No. 217-02288) 06-Api-16 (No. 217-02289) 06-Api-16 (No. 217-02292) 06-Api-18 (No. 217-02296)	Apr-17 Apr-17 Apr-17 Apr-17 Apr-17
Power meter NRP Power sensor NRP-Z91 Power sensor NRP-Z91 Power sensor NRP-Z91 Peterence 20 dB Attenuator Pype-N mismatch combination Peterence Probe EX30V4 DAE4	SN: 164778 SN: 103244 SN: 103245 SN: 5058 (20k) SN: 5047.2 / 06327 SN: 7349	06-Api-16 (No. 217-02288/02269) 06-Api-16 (No. 217-02288) 06-Api-16 (No. 217-02289) 06-Api-16 (No. 217-02292) 06-Api-16 (No. 217-02295) 15-Jun-16 (No. EX3-7349_Jun16)	Apr-17 Apr-17 Apr-17 Apr-17 Apr-17 Jun-17
ower meter NRP ower sensor NRP-Z91 ower sensor NRP-Z91 elevence 20 dB Attenuator yoe-N mismatch combination leference Probe EX3DV4 AE4 econdary Standards	SN: 104778 SN: 103244 SN: 103245 SN: 5058 (20t) SN: 5051,267 (20527 SN: 7348 SN: 601	06-Api-16 (No. 217-02288/02269) 06-Api-16 (No. 217-02288) 06-Api-16 (No. 217-02288) 06-Api-16 (No. 217-02292) 05-Api-18 (No. 217-02292) 15-Jun-18 (No. 237-02295) 15-Jun-18 (No. EX3-7349_Jun16) 30-Ceic-15 (No. DAE-4-601_Ceic15) Check Date (in house) 07-Ocl-15 (No. 217-02282)	Apr-17 Apr-17 Apr-17 Apr-17 Apr-17 Jun-17 Dec-16 Schieduled Check In house check: Oct-16
lower meter NAP lower sensor NAP-291 lower sensor NAP-291 letenence 20 de Attenuator lyce-N mismatch combinetion letenence Probe EX3DV4 lAE4 lecondary Standards lower meter EPM-442A	SN: 104778 SN: 103244 SN: 103245 SN: 5058 (20%) SN: 5047.2 / 06327 SN: 7348 SN: 601	06-Api-16 (No. 217-02288/02289) 06-Api-16 (No. 217-02288) 06-Api-16 (No. 217-02289) 06-Api-16 (No. 217-02292) 06-Api-16 (No. 217-02292) 15-Jun-16 (No. EX3-7349_Jun16) 30-Dec-15 (No. DAE4-601_Dec15) Check Date (in house) 07-Oct-15 (No. 217-02222) 07-Oct-15 (No. 217-02222)	Apr-17 Apr-17 Apr-17 Apr-17 Apr-17 Apr-17 Jun-17 Dec-16 Scheduled Check In house check: Oct-16 In house check: Oct-16
Power meter NRP Power sensor NRP-Z91 Power sensor NRP-Z91 Power sensor NRP-Z91 Power sensor NRP-Z91 Power meter 20 dB Attenuator Pype-N mismatch combination Reference Probe EX3DV4 DAE4 Recordary Standards Power meter EPN-442A Power sensor HP 8481A	SN: 104778 SN: 103244 SN: 103245 SN: 5058 (20t) SN: 5051,267 (20527 SN: 7348 SN: 601	06-Api-16 (No. 217-02288/02289) 06-Api-16 (No. 217-02288) 06-Api-16 (No. 217-02289) 05-Api-16 (No. 217-02292) 05-Api-16 (No. 217-02295) 15-Jun-16 (No. 217-02296) 30-Dec-15 (No. DAE4-601_Dec15) Chick Date (in house) 07-Oct-16 (No. 217-02222) 07-Oct-16 (No. 217-02222)	Apr-17 Apr-17 Apr-17 Apr-17 Apr-17 Jun-17 Dec-16 Schieduled Check In house check: Oct-16 In house check: Oct-16 In house check: Oct-16
Tower meter NAP Tower sensor NRP-Z91 Tower sensor HP 8481A Tower sensor HP 8481A	SN: 104778 SN: 103244 GN: 103245 SN: 5058 (20t) SN: 5047.2 / 06827 SN: 7948 SN: 601 (D 4 SN: GB37480704 SN: US37202783 SN: MY41032317 SN: 100972	06-Api-16 (No. 217-02288/02289) 06-Api-16 (No. 217-02288) 06-Api-16 (No. 217-02289) 05-Api-16 (No. 217-02289) 05-Api-16 (No. 217-02292) 05-Api-16 (No. 217-02295) 15-Jun-16 (No. DAE4-601_Dec15) Check Date (in house) 07-Oct-15 (No. 217-02222) 07-Oct-15 (No. 217-02222) 07-Oct-15 (No. 217-02222) 15-Jun-15 (in house check Jun-15)	Apr-17 Apr-17 Apr-17 Apr-17 Apr-17 Jun-17 Dec-16 Schieduled Check In house check: Oct-16 In house check: Oct-16 In house check: Oct-16 In house check: Oct-16
lower meter NRP lower sensor NRP-Z91 lower sensor NRP-Z91 lower sensor NRP-Z91 letternce 20 d8 Attenuator letternce 20 d8 Attenuator letternce Probe EX30V4 lAE4 letternce Probe EX30V4	SN: 104778 SN: 103244 SN: 103245 SN: 5058 (20t) SN: 5047.2 / 06827 SN: 7348 SN: 601 ID 4 SN: G837480704 SN: US37202783 SN: MY41092317	06-Api-16 (No. 217-02288/02289) 06-Api-16 (No. 217-02288) 06-Api-16 (No. 217-02289) 05-Api-16 (No. 217-02292) 05-Api-16 (No. 217-02295) 15-Jun-16 (No. 217-02296) 30-Dec-15 (No. DAE4-601_Dec15) Chick Date (in house) 07-Oct-16 (No. 217-02222) 07-Oct-16 (No. 217-02222)	Apr-17 Apr-17 Apr-17 Apr-17 Apr-17 Jun-17 Dec-16 Schieduled Check In house check: Oct-16 In house check: Oct-16 In house check: Oct-16
Power meter NRP Power sensor NRP Z91 Power S91 P	SN: 104778 SN: 103244 GN: 103245 SN: 5058 (20t) SN: 5047.2 / 06827 SN: 7948 SN: 601 (D 4 SN: GB37480704 SN: US37202783 SN: MY41032317 SN: 100972	06-Api-16 (No. 217-02288/02289) 06-Api-16 (No. 217-02288) 06-Api-16 (No. 217-02289) 05-Api-16 (No. 217-02289) 05-Api-16 (No. 217-02292) 05-Api-16 (No. 217-02295) 15-Jun-16 (No. DAE4-601_Dec15) Check Date (in house) 07-Oct-15 (No. 217-02222) 07-Oct-15 (No. 217-02222) 07-Oct-15 (No. 217-02222) 15-Jun-15 (in house check Jun-15)	Apr-17 Apr-17 Apr-17 Apr-17 Apr-17 Jun-17 Dec-16 Schieduled Check In house check: Oct-16 In house check: Oct-16 In house check: Oct-16 In house check: Oct-16
Power meter NRP Power sensor NRP-Z91 Power meter EPM-442A Power sensor HP 8481A	SN: 104778 SN: 103244 SN: 103245 SN: 5058 (20k) SN: 5058 (20k) SN: 5047.2 / 06827 SN: 7348 SN: 601	06-Api-16 (No. 217-02288) 06-Api-16 (No. 217-02288) 06-Api-16 (No. 217-02288) 06-Api-16 (No. 217-02289) 06-Api-16 (No. 217-02282) 06-Api-16 (No. 217-02282) 07-Api-16 (No. 283-7349_Jun16) 30-Dec-15 (No. DAE-4-601_Dec15) Check Date (in house) 07-Oct-15 (No. 217-02282) 07-Oct-15 (No. 217-02282) 07-Oct-15 (No. 217-02282) 15-Jun-15 (in house check Jun-15) 18-Oct-01 (in house check Jun-15)	Apr-17 Apr-17 Apr-17 Apr-17 Apr-17 Jun-17 Dac-16 Scheduled Check In house check: Oct-16
Primary Standards Power meter NRP Power sensor NRP-Z91 Power sensor NRP-Z91 Reference 20 dB Attenuator rype-N mismatch combination Reference Probe EX3DV4 DAE4 Secondary Standards Power meter EPN-442A Power sensor HP 8481A RF generator RSS SMT-00 Network Analyzer HP 8753E Cellbrated by	SN: 104778 SN: 103244 SN: 103245 SN: 5058 (20t) SN: 5047.2 / 06327 SN: 7348 SN: 601 SN: G837480704 SN: US37292783 SN: MY41032317 SN: 100972 SN: US37390586 Name	06-Api-16 (No. 217-02288/02289) 06-Api-16 (No. 217-02288) 06-Api-16 (No. 217-02289) 06-Api-16 (No. 217-02292) 06-Api-16 (No. 217-02292) 06-Api-16 (No. EX3-7349_Jun16) 30-Dec-15 (No. DAE4-601_Dec15) Check Date (in house) 07-Oct-15 (No. 217-02222) 07-Oct-15 (No. 217-02222) 07-Oct-15 (No. 217-02223) 15-Jun-15 (in house check Jun-15) 18-Oct-01 (in licuse check Dec-15) Function	Apr-17 Apr-17 Apr-17 Apr-17 Apr-17 Jun-17 Dac-16 Scheduled Check In house check: Oct-16

Certificate No: D1750V2-1008_Aug16

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Actrecitation No.: SCS 0108

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Glossary:

TSL tissue simulating liquid
ConvF sensitivity in TSL / NORM x,y,z
N/A not applicable or not measured

Calibration is Performed According to the Following Standards:

- a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- EC 62209-1, "Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)", February 2005
- iEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30) MHz to 6 GHz)", March 2010
- d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

e) DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions: Further details are svailable from the Validation Report at the end
 of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL: The dipole is mounted with the spacer to position its feed
 point exactly below the center marking of the flat phantom section, with the arms oriented
 parallel to the body axis.
- Feed Point Impedance and Return Loss: These parameters are measured with the dipole
 positioned under the liquid filled phantom. The impedance stated is transformed from the
 measurement at the SMA connector to the feed point. The Return Loss ensures low
 reflected power. No uncertainty required.
- Electrical Delay: One-way delay between the SMA connector and the antenna feed point.
 No uncertainty required.
- · SAR measured: SAR measured at the stated antenna input power.
- SAR normalized: SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters: The measured TSL parameters are used to calculate the nominal SAR result.

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

Geridicate No: D1750V2-1008, Aun 16.

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Measurement Conditions

DASY Version	DASY5	V52.8.8
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phanton	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	1750 MHz ± 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	-40.1	1.37 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	40:3 ± 8 %	1.37 mha/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	-	

SAR result with Head TSL

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	9.28 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	37.2 W/kg = 17.0 % (k=2)

SAR everaged over 10 cm3 (10 g) of Head TSL	condition	
SAR measured	250 mW input power	4.90 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	19.6 W/kg ± 16.5 % (k=2)

Body TSL parameters

The following parameters and calculations were applied

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	53,4	1,49 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	50.1 ± 6 %	1.49 mho/m ± 6.%
Body TSL temperature change during test	< 0.5 °C	-	-

SAR result with Body TSL

SAR averaged over 1 cm2 (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	9.34 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	37.3 W/kg + 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Body TSL	condition	
SAR measured	250 mW input power	4.96 W/kg
SAR for nominal Endy TSL parameters	normalized to 1W	19.9 W/kg ± 16.5 % (k=2)

Certificate No. D1750V2-1009_Aug18

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Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to load point	51.0 Ω - 0.2 jΩ
Return Loss	-40.1 dB

Antenna Parameters with Body TSL

Impedance, transformed to feed point	46.7 Ω - 0.5 jΩ
Return Loss	→ 29,3 dB

General Antenna Parameters and Design

1.221 ris

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The entenna is therefore short-circulied for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR date are not affected by this change. The overell dipole length is still according to the Standard

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections pear the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG
Manufactured on	May 27, 2003

Cartillonie No: D1756V2-1008_Aug16

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DASY5 Validation Report for Head TSL

Date: 24.08.2016

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 1750 MHz; Type: D1750V2; Serial: D1750V2 - SN:1008

Communication System: UID 0 - CW; Frequency: 1750 MHz

Medium parameters used: f = 1750 MHz; $\sigma = 1.37 \text{ S/m}$; $\epsilon_r = 40.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard; DASY5 (IEEE/IEC/ANSI C63.19-2011)

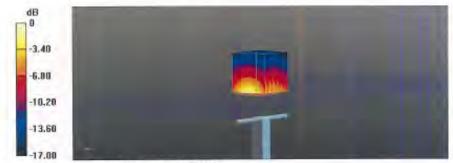
DASY52 Configuration:

- Probe: EX3DV4 SN7349; ConvF(8.46, 8.46, 8.46); Calibrated: 15.06.2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 30.12.2015
- Phantom: Flat Phantom 5.0 (front); Type: QD000P50AA; Serial: 1001
- DASY52 52,8.8(1258); SEMCAD X 14.6.10(7372)

Dipole Calibration for Head Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 105.8 V/m; Power Drift = 0.03 dB Peak SAR (extrapolated) = 17.2 W/kg

SAR(1 g) = 9.28 W/kg; SAR(10 g) = 4.9 W/kgMaximum value of SAR (measured) = 14.3 W/kg



0 dB = 14.3 W/kg = 11.55 dBW/kg

Certificate No: D1750V2-1008_Aug16

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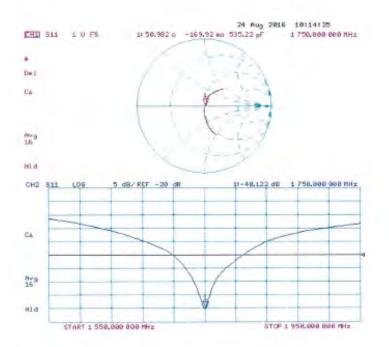
prosecuted to the fullest extent of the law.

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Impedance Measurement Plot for Head TSL



Certificate No: D1750V2-1008_Aug16

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DASY5 Validation Report for Body TSL

Date: 31.08.2016

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 1750 MHz; Type: D1750V2; Serial; D1750V2 - SN:1008

Communication System: UID 0 - CW; Frequency: 1750 MHz

Medium parameters used: f = 1750 MHz; $\sigma = 1.49 \text{ S/m}$; $\varepsilon_c = 53.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

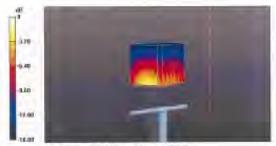
DASY52 Configuration:

- Probe: EX3DV4 SN7349; ConvF(8.25, 8.25, 8.25); Calibrated: 15.06.2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 30.12.2015
- Phantom: Flat Phantom 5.0 (back); Type: QD000P50AA; Serial: 1002
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7372)

Dipole Calibration for Body Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 100.8 V/m; Power Drift = -0.02 dB Peak SAR (extrapolated) = 16.4 W/kg

SAR(1 g) = 9.34 W/kg; SAR(10 g) = 4.98 W/kgMaximum value of SAR (measured) = 13.9 W/kg



0 dB = 13.9 W/kg = 11.43 dBW/kg

Certificate No: D1750V2-1008_Aug16

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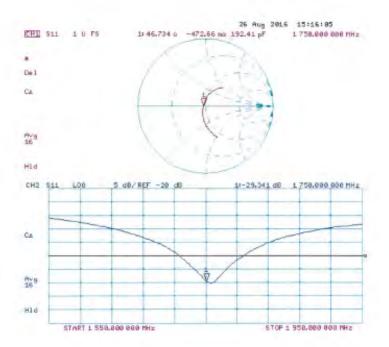
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Impedance Measurement Plot for Body TSL



Certificate No: D1750V2-1008_Aug16

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





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The Swise Accreditation Service is one of the signatories to the EA
Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: SCS 0108

Client SGS-TW (Auden)

Certificate No: D1900V2-5d027 Apr16

Dbject	D1900V2 - SN: 5	d027	
Calibration procedure(s)	QA CAL-05.v9 Calibration proces	dure for dipole validation kits abo	we 700 MHz
Calibration date	April 25, 2016		
The measurements and the uncer	damles with confidence of	onal standards, which realize the physical un redeability are given on the following pages an	d are part of the conflicate.
All calibrations have been conduc Calibration Equipment used (M&T		ry lackty: environment temperature (22 ± 3)*1	C and humidity < 70%.
		and the state of	William Vertical Value
Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
	ID # 5N: 104778	Cal Date (Certificate No.) 16-Apr-16 (No. 217-02288/02389)	Apr-17
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Power mater NRP-Z91	SN: 104778	06-Apr-16 (No. 217-02288/02389)	Apr-17
Power meter NRP Power sensor NRP-Z91 Power sensor NRP-Z91	SN: 104778 SN: 103244	06-Apr-16 (No. 217-02288/02389) 06-Apr-16 (No. 217-02288)	Apr-17 Apr-17
Power meter NRP Power sensor NRP-Z91 Power sensor NRP-Z91 Reference 20 dB Attenuator	SN: 104778 SN: 103244 SN: 103245	06-Apr-16 (No. 217-02288/02289) 06-Apr-16 (No. 217-02288) 06-Apr-16 (No. 217-02289)	Apr-17 Apr-17 Apr-17
Power meter NRP Power sensor NRP-Z91 Power sensor NRP-Z91 Reference 20 dB Attenuator Type-N mismatch combination	5N: 104778 SN: 103244 SN: 103245 5N: 5058 (20k)	06-Apr-16 (No. 217-02288/02389) 06-Apr-16 (No. 217-02288) 06-Apr-16 (No. 217-02299) 05-Apr-16 (No. 217-02292)	Apr-17 Apr-17 Apr-17 Apr-17
Power moter NIRP Power sensor NIRP-Z91 Power sensor NIRP-Z91 Reference 20 dB Attenualor Type-N mismatch combination Reference Probe EX3DV4	5N: 104778 SN: 103244 SN: 103245 SN: 5058 (20k) SN: 5047.2 / 06327	06-Apr-16 (No. 217-02288/02389) 06-Apr-16 (No. 217-02288) 06-Apr-16 (No. 217-02299) 05-Apr-16 (No. 217-02292) (05-Apr-16 (No. 217-02295)	Apr-17 Apr-17 Apr-17 Apr-17
Power mater NRP-Z91 Power sensor NRP-Z91 Power sensor NRP-Z91 Reference 20 dB Attenuator Type-N mismatch combination Reference Probe EX3DV4	SN: 104778 SN: 103244 SN: 103245 SN: 5058 (20k) SN: 5047.2 / 06327 SN: 7349	06-Apr-16 (No. 217-02288/02289) 06-Apr-16 (No. 217-02288) 06-Apr-16 (No. 217-02292) 05-Apr-16 (No. 217-02292) 05-Apr-16 (No. 217-02295) 31-Deo-15 (No. EX3-7349, Dec15)	Apr-17 Apr-17 Apr-17 Apr-17 Apr-17 Dec-16
Power moter NRP-Z91 Power sensor NRP-Z91 Power sensor NRP-Z91 Reference 20 dB Attenuator Type-N mismaich combination Reference Probe EX3DV4 DAE4 Secondary Standards	SN: 104778 SN: 103244 SN: 103245 SN: 5058 (20k) SN: 5047 2 / 06327 SN: 7349 SN: 601	06-Apr-16 (No. 217-02288/02389) 06-Apr-16 (No. 217-02288) 06-Apr-16 (No. 217-02299) 05-Apr-16 (No. 217-02292) 05-Apr-16 (No. 217-02292) 31-Dec-15 (No. DXS-7348_Dec15) 30-Dec-15 (No. DAE4-601_Dec15)	April7 April7 April7 April7 April7 Deci16 Deci16
Power mater NRP-Z91 Power sensor NRP-Z91 Power sensor NRP-Z91 Reference 20 dB Attenuator Type-N mismatch combination Reference Probe EX3DV4 DAE4 Secondary Standards Power mater EPM-442A	SN: 104778 SN: 103244 SN: 103245 SN: 5058 (20k) SN: 5047 2 / 06327 SN: 7349 SN: 601	06-Apr-16 (No. 217-02288/02389) 06-Apr-16 (No. 217-02288) 06-Apr-16 (No. 217-02299) 05-Apr-16 (No. 217-02292) 05-Apr-16 (No. 217-02292) 31-Dec-15 (No. EX3-7348, Dec15) 30-Dec-15 (No. DAE4-601, Dec15) Check Date (In kouse)	Apr-17 Apr-17 Apr-17 Apr-17 Apr-17 Dec-16 Dec-16 Scheduled Check In House check: Oct-18
Power moter NRP Z91 Power sensor NRP Z91 Power sensor NRP Z91 Reference 20 dB Attenuator Type-N mismatch combination Reference Probe EX3DV4 DAE4 Secondary Standards Power meter EPM-442A Power sensor HP 8481A	SN: 104776 SN: 103244 SN: 103245 SN: 5058 (20k) SN: 5047 2 / 06327 SN: 7349 SN: 601	06-Apr-16 (No. 217-02288/02389) 06-Apr-16 (No. 217-02288) 06-Apr-16 (No. 217-02299) 05-Apr-16 (No. 217-02292) 05-Apr-16 (No. 217-02292) 31-Dec-15 (No. DC3-7349, Dec15) 30-Dec-15 (No. DAE4-601, Dec15) Check Date (In konse) 07-Oct-15 (No. 217-02222)	Apr-17 Apr-17 Apr-17 Apr-17 Apr-17 Dec-16 Dec-16 Scheduled Check In house check: Oct-16 In house check: Oct-16
Power moter NRP-Z91 Power sensor NRP-Z91 Power sensor NRP-Z91 Reference 20 dB Attenusion Type-N mismach combination Reference Probe EX3DV4 DAE4 Secondary Standards Power meter EPM-442A Power sensor HP 8481A	SN: 103724 SN: 103724 SN: 103245 SN: 5058 (20k) SN: 5047 2 / 06327 SN: 7349 SN: 601	06-Apr-16 (No. 217-02288/02289) 06-Apr-16 (No. 217-02289) 05-Apr-16 (No. 217-02292) 05-Apr-16 (No. 217-02292) 05-Apr-16 (No. 217-02295) 31-Dec-15 (No. EX3-7349_Dec15) 30-Dec-15 (No. DAE-4-601_Dec15) Check Date (In Isouse) 07-Oct-15 (No. 217-02222) 07-Oct-15 (No. 217-02222)	Apr-17 Apr-17 Apr-17 Apr-17 Apr-17 Dec-16 Dec-16 Scheduled Check In House check: Oct-16 In house check: Oct-16 In house check: Oct-16 In house check: Oct-16
Power moter NRP-Z91 Power sensor NRP-Z91 Power sensor NRP-Z91 Reference 20 dB Attenusion Pope-N mismatch combination Reference Probe EX3DV4 DAE4 Secondary Standards Power meter EPM-442A Power sensor HP 8481A Power sensor HP 8481A RF generator R&S SMT-66	SN: 103744 SN: 103244 SN: 103245 SN: 5058 (20k) SN: 5047.2 / 06327 SN: 5047.2 / 06327 SN: 601 IO # SN: GB37480704 SN: US37292783 SN: MY41032317	06-Apr-16 (No. 217-02288/02389) 06-Apr-16 (No. 217-02288) 06-Apr-16 (No. 217-02299) 05-Apr-16 (No. 217-02299) 05-Apr-16 (No. 217-02295) 31-Dec-15 (No. EX3-7349, Dec15) 30-Dec-15 (No. DAE-4-601, Dec15) Check Date (In itouse) 07-Oct-15 (No. 217-02222) 07-Oct-15 (No. 217-02222) 07-Oct-15 (No. 217-02222)	Apr-17 Apr-17 Apr-17 Apr-17 Apr-17 Dec-16 Dec-16 Scheduled Check In House check: Oct-16 In house check: Oct-16 In house check: Oct-16 In house check: Oct-16
Power mater NRP-Z91 Power sensor NRP-Z91 Power sensor NRP-Z91 Power sensor NRP-Z91 Reference 20 dB Attenusion Type-N mismatch combination Reference Probe EX3DV4 DAE4 Secondary Standards Power mater EPM-442A Power sensor HP 8481A RF generator R&S SMT-66	SN: 104778 SN: 103244 SN: 103245 SN: 5058 (20k) SN: 5047 2 / 06327 SN: 7349 SN: 601 IO # SN: GB37480704 SN: US37292783 SN: MY41020317 SN: 100972	06-Apr-16 (No. 217-02288/02389) 06-Apr-16 (No. 217-02288) 06-Apr-16 (No. 217-02289) 05-Apr-16 (No. 217-02299) 05-Apr-16 (No. 217-02292) 05-Apr-16 (No. 217-02295) 31-Dec-15 (No. 282-3349, Dec-15) 30-Dec-15 (No. DAE4-601, Dec-15) Check Data (In house) 07-Oct-15 (No. 217-02222) 07-Oct-15 (No. 217-02222) 07-Oct-15 (No. 217-02222) 15-Jun-15 (in house check Jun-15)	Apr-17 Apr-17 Apr-17 Apr-17 Apr-17 Dec-16 Dec-16
Primary Standards Power meter NRP Power sensor NRP-Z91 Power sensor NRP-Z91 Reference 20 dB Attenusion Type-N mismatch combination Reference Probe EX3DV4 DAE4 Secondary Standards Power meter EPM-442A Power sensor HP 8481A Power sensor HP 8481A RF generator HP 8455E Network Analyzer HP 8753E	SN: 104778 SN: 103244 SN: 103245 SN: 5058 (204) SN: 5047 2 / 06327 SN: 7349 SN: 601 ID # SN: GB37480704 SN: US37292783 SN: MY41020317 SN: 109972 SN: US37390685	06-Apr-16 (No. 217-02288/02289) 06-Apr-16 (No. 217-02289) 05-Apr-16 (No. 217-02292) 05-Apr-16 (No. 217-02292) 05-Apr-16 (No. 217-02292) 05-Apr-16 (No. 217-02295) 31-Dec-15 (No. EX3-7349, Dec15) 30-Dec-15 (No. DAE4-601, Dec15) Check Date (In Isosse) 07-Oct-15 (No. 217-02222) 07-Oct-15 (No. 217-02222) 07-Oct-15 (No. 217-02222) 15-Jun-15 (in Inquise check Jun-15) 16-Oct-01 (in Inquise check Oct-15)	Apr-17 Apr-17 Apr-17 Apr-17 Apr-17 Dec-16 Dec-16 Scheduled Check In House check: Oct-18 In house check: Oct-18 In house check: Oct-18 In house check: Oct-18 In house check: Oct-16 In house check: Oct-16 In house check: Oct-16

Certificate No: D1900V2-5d027_Apr16

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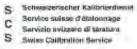


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Calibration Laboratory of Schmid & Partner Engineering AG







Accreditation No.: SCS 0108

Accepted by the Sweet Acceptation Service (SAS)

sstrasse 43, 8004 Zurich, Switzerland

The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

Glossary:

TSL tissue simulating liquid sensitivity in TSL / NORM x,y,z ConvE not applicable or not measured N/A

Calibration is Performed According to the Following Standards:

- a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) In the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- b) IEC 62209-1, 'Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)*, February 2005
- IEC 82209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
- d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

e) DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions: Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL: The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- Feed Point Impedance and Return Loss: These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- Electrical Delay: One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- SAR measured: SAR measured at the stated antenna input power.
- SAR normalized: SAR as measured, normalized to an input power of 1 W at the antenna
- SAR for nominal TSL parameters: The measured TSL parameters are used to calculate the nominal SAR result.

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

Gertificate No: D1900V2-5d027, April-

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Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASY5	V52.8.8
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	1900 MHz ± 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	40.0	1.40 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	40.0 ± 6 %	1.37 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	9.55 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	38.7 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	250 mW input power	5.03 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	20.3 W/kg ± 16.5 % (k=2)

Body TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	53.3	1.52 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	52.9 ± 6 %	1.49 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C		

SAR result with Body TSL

SAR averaged over 1 cm3 (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	9.83 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	39.7 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Body TSL	condition	
SAR measured	250 mW input power	5.21 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	21.0 W/kg ± 16.5 % (k=2)

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Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	50.8 Ω + 4.4 jΩ
Return Loss	- 27.0 dB

Antenna Parameters with Body TSL

Impedance, transformed to feed point	46.5 Ω + 5.6 jΩ
Return Loss	- 23.3 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.196 ns
----------------------------------	----------

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG
Manufactured on	December 17, 2002

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DASY5 Validation Report for Head TSL

Date: 25,04.2016

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN: 5d027

Communication System: UID 0 - CW; Frequency: 1900 MHz

Medium parameters used: f = 1900 MHz; $\sigma = 1.37 \text{ S/m}$; $\varepsilon_c = 40$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

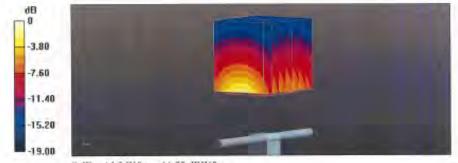
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 SN7349; ConvF(8.2, 8.2, 8.2); Calibrated: 31.12,2015;
- · Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 30.12.2015
- Phantom: Flat Phantom 5.0 (front); Type; QD000P50AA; Serial: 1001
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7372)

Dipole Calibration for Head Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 106.9 V/m; Power Drift = 0.02 dB Peak SAR (extrapolated) = 17.2 W/kg SAR(1 g) = 9.55 W/kg; SAR(10 g) = 5.03 W/kg Maximum value of SAR (measured) = 14.3 W/kg



0 dB = 14.3 W/kg = 11.55 dBW/kg

Certificate No: D1900V2-5d027_Apr16

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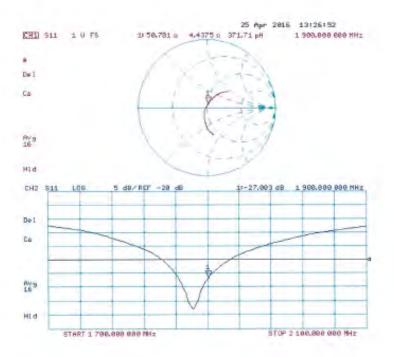
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Impedance Measurement Plot for Head TSL



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DASY5 Validation Report for Body TSL

Date: 25.04.2016

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN: 5d027

Communication System: UID 0 - CW; Frequency: 1900 MHz

Medium parameters used: f = 1900 MHz; $\sigma = 1.49 \text{ S/m}$; $\varepsilon_c = 52.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 SN7349; ConvF(8.03, 8.03, 8.03); Calibrated; 31.12.2015;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 30.12.2015
- Phantom: Flat Phantom 5.0 (back); Type: QD000P50AA; Serial: 1002.
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7372).

Dipole Calibration for Body Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 104.2 V/m; Power Drift = 0.02 dB Peak SAR (extrapolated) = 17.2 W/kg SAR(1 g) = 9.83 W/kg; SAR(10 g) = 5.21 W/kgMaximum value of SAR (measured) = 14.7 W/kg



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

Certificate No: D1900V2-5d027_Apr16

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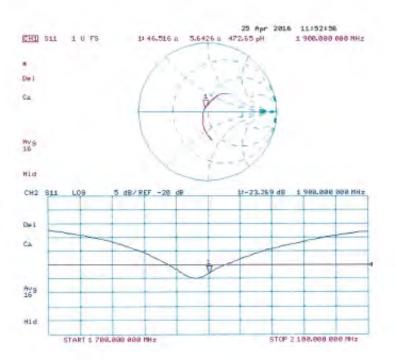
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Impedance Measurement Plot for Body TSL



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Calibration Laboratory of Schmid & Partner Engineering AG Zeughausstrasse 43, 8994 Zurich, Switzerland





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Accreditation No.: SCS 0108

Client SGS-TW (Auden)

Certificate No: D2450V2-727 Apr16

	ERTIFICATE		
Object.	D2450V2 - SN:72	27	
Calibratice procedure(a)	QA CAL-05.v9 Calibration procedure for dipole validation kits above 700 MHz		
Calibration date:	April 19, 2016		
		onal standards: which restine the physical un robability are given on the following pages an	
All calibrations have been conduc	cted in the closed suborato	ry lacilly, unvicement temperature (22 ± 3) \	D and humidity = 70%
Calibration Equipment used (M&)	E critical for calibration)		
Primary Standards	(D 4	Cal Date (Certificate No.)	Scheduled Calibration
Power mater NRP	SN: 104778	06-Apr-16 (No. 217-02288/02289)	Apr-17
ower sensor NRP-Z91	SN: 103244	06-Apr-16 (No. 217-02288)	Apr-17
	SN: 103244 SN: 103245	06-Apr-16 (No. 217-02288) 06-Apr-16 (No. 217-02289)	Apr-17 Apr-17
ower sensor NRP-Z91	1000	The Late of the Control of the Contr	
Power sensor NRP-Z91 Retarence 20 dB Attenuator	SN: 103245	06-Apr 16 (No. 217-02289)	Apr-17
Power sensor NRP-Z9T Pataranca 20 dB Attenuator Type-N mismatch combination	SN: 103245 SN: 5058 (20k)	06-Apr-16 (No. 217-02289) 06-Apr-16 (No. 217-02292)	Apr-17 Apr-17
Power sensor NRIP-Z9T Reterance 20 dB Attenuator Type-N mismatch combination Reterance Probe EX3OV4	SN: 103245 SN: 5058 (204) SN: 5047.2 / 06327	06-Apr-16 (No. 217-02280) 06-Apr-16 (No. 217-02280) 06-Apr-16 (No. 217-02286)	Apr-17 Apr-17 Apr-17
Power sensor NRP-Z91 Reterence 20 dB Attenuator Type-N mismatch combination Reterence Probe EX30V4 DAE4	SN: 103245 SN: 5058 (20k) SN: 5047.2 / 06327 SN: 7349	06-Apr-16 (No. 217-02288) 06-Apr-16 (No. 217-02292) 06-Apr-16 (No. 217-02298) 31-Dec-15 (No. EX3-7349_Dec16)	Apr-17 Apr-17 Apr-17 Dec-16
Power sensor NRP-Z91 Reterance 20 dB Attenuator Type-N mismatch combination Reterance Probe EX3DV4 AAE4 Recondary Standards	SN: 103245 SN: 9038 (204) SN: 9047.2 / 96327 SN: 7349 SN: 601	06-Apr-16 (No. 217-02288) 06-Apr-16 (No. 217-02282) 06-Apr-16 (No. 217-02283) 31-Dec-15 (No. EX3-7349_Dec15) 30-Dec-15 (No. DAE4-601_Dec15)	Apr-17 Apr-17 Apr-17 Dec-16 Dec-16 Schadulari Chack
Power sensor NRP-ZBT Reterance 29 dB Attenuator Type-N mismatch combination Type-N mismatch combination DAE4 Secondary Standards Power moter EPM-442A	SN: 103245 SN: 5058 (20k) SN: 5047.2 (76527 SN: 7349 SN: 601	06-Apr-16 (No. 217-02288) 06-Apr-16 (No. 217-02292) 06-Apr-16 (No. 217-02292) 31-Dec-15 (No. EX3-7349 Dec16) 30-Dec-15 (No. DAE4-601 Dec15) Check Date (in house)	Apr-17 Apr-17 Apr-17 Dec-16 Dec-16 Schadulad Chack In house check: Oct-16
Power sensor NRP-ZBT Reterance 20 dB Attenuator Type-N mismatch combination Typiarance Probe EX3DV4 DAE4 Secondary Standards Power meter EPM-442A Power sensor HP 8481A	SN: 103245 SN: 9058 (20k) SN: 5047.2 / 06327 SN: 7349 SN: 601	06-Apr-16 (No. 217-02288) 06-Apr-16 (No. 217-02288) 95-Apr-16 (No. 217-02288) 91-Dec-15 (No. EX3-7349_Dec16) 30-Dec-15 (No. DAE4-601_Dec15) Check Date (in house) 07-Oct-15 (No. 217-02222)	Apr-17 Apr-17 Apr-17 Dec-16 Dec-16 Scheduled Check In house check: Oct-16 In house check: Oct-16
Power sensor NRP-Z91 Reference 20 dB Attenuator Eype N mismatich combination Reference Probe EX3DV4 DAE4 Secondary Standards Power moter EPM-442A Power sensor HP 8481A	SN: 103245 SN: 9058 (20k) SN: 9047.2 / 06327 SN: 7349 SN: 601 IO 4 SN: 0837460704 SN: US37292793	06-Apr-16 [No. 217-02288] 06-Apr-16 [No. 217-02282] 06-Apr-16 [No. 217-02283] 31-Dec-15 (No. EXX-7349_Dec16) 30-Dec-15 (No. DIAE4-601_Dec15) Check Date (in house) 07-Oct-15 [No. 217-02222) 07-Oct-15 (No. 217-02222)	Apr-17 Apr-17 Apr-17 Dec-16 Dec-16 Dec-16 Scheduled Check In house check: Oct-16 In house check: Oct-16 In house check: Oct-16
Power sensor NRP-ZBT Reterance 20 dB Attenuator Type-N mismatch combination Reterance Probe EX3DV4 DAE4 Secondary Standards Power sensor HP 8481A Prover sensor HP 8481A RF generator RS SIMT-06	SN: 103245 SN: 9058 (20k) SN: 9047.2 / 06327 SN: 7349 SN: 601 ID 4 SN: 0637480704 SN: US37292790 SN: MY4*082317	06-Apr-16 [No. 217-02288] 06-Apr-16 [No. 217-02282] 06-Apr-16 [No. 217-02282] 06-Apr-16 [No. 217-02285] 31-Dec-15 (No. EXX-7349_Dec16) 30-Dec-15 (No. DAE4-601_Dec15) Check Date (in house) 07-Oct-15 [No. 217-02222) 07-Oct-15 (No. 217-02222) 07-Oct-16 (No. 217-02223)	Apr-17 Apr-17 Apr-17 Dec-16 Dec-16 Scheduled Check: Oct-16 In house check: Oct-16 In house check: Oct-16 In house check: Oct-16
Power sensor NRP-Z91 Power sensor NRP-Z91 Reference 20 dB Abonustor Type-N mismatch combination Flytarince Probe EX30V4 DAE4 Secondary Standards Power meter EPM-442A Power sensor HP 8481A PF generator R&S SMT-06 Network Analyzer NP 8763E	SN: 103245 SN: 9038 (20k) SN: 5047.2 / 06327 SN: 7349 SN: 601 ID A SN: 0B37480704 SN: UB37292703 SN: WY41982317 SN: 100972	06-Apr-16 (No. 217-02288) 06-Apr-16 (No. 217-02282) 06-Apr-16 (No. 217-02282) 31-Dec-15 (No. EX3-7349 Dec16) 30-Dec-15 (No. EX3-7349 Dec15) Chec Date (in house) 07-Oct-15 (No. 217-02222) 07-Oct-15 (No. 217-02222) 15-Jun-15 (in intuse check Jun-15)	Apr-17 Apr-17 Apr-17 Dec-16 Dec-16
Power sensor NRP-ZBT Reterance 29 dB Abenuator Type-N mismatch combination Reterance Probe EX3DV4 DAE4 Secondary Standards Power meter EPM-442A Power sensor HP 8481A Power sensor HP 8481A Power sensor HP 8481A NF generator R&S SMT-06 Network Analyzer HP 8763E	SN: 103245 SN: 5032 (20k) SN: 5047.2 / 06327 SN: 7349 SN: 601 ID 4 SN: 0837480704 SN: US37292703 SN: MY4*082317 SN: 100972 SN: US37390585	06-Apr-16 (No. 217-02288) 06-Apr-16 (No. 217-02280) 06-Apr-16 (No. 217-02280) 05-Apr-16 (No. EX3-7349 Dec16) 30-Dec-15 (No. DAE4-601 Dec15) Check Date (in house) 07-Oct-15 (No. 217-02222) 07-Oct-16 (No. 217-02222) 07-Oct-16 (No. 217-02222) 15-Jun-15 (in house check Jun-15) 18-Oct-01 (in house check Jun-15)	Apr-17 Apr-17 Apr-17 Dec-16 Dec-16 Schadulari Chack In house chack: Oct-16
Power sensor NRP-ZBT Reterance 29 dB Abenuator Type-N mismatch combination Reterance Probe EX3DV4 DAE4 Secondary Standards Power meter EPM-442A Power sensor HP 8481A Power sensor HP 8481A Power sensor HP 8481A NF generator R&S SMT-06 Network Analyzer HP 8763E	SN: 103245 SN: 6088 (20k) SN: 5047.2 / 06327 SN: 7349 SN: 601 ID 4 SN: 0837480704 SN: US37292793 SN: MY41082317 SN: 103972 SN: US37390585 Neme	06-Apr-16 (No. 217-02288) 06-Apr-16 (No. 217-02280) 06-Apr-16 (No. 217-02280) 05-Apr-16 (No. 217-02280) 31-Dec-15 (No. EX3-7349 _Dec16) 30-Dec-15 (No. DAE4-601 _Dec15) Check Date (in house) 07-Oct-15 (No. 217-02222) 07-Oct-16 (No. 217-02222) 07-Oct-16 (No. 217-02223) 15-Jun-15 (in house check Jun-15) 18-Oct-01 (in house check Dct-15)	Apr-17 Apr-17 Apr-17 Dec-16 Dec-16 Scheduled Check In house check: Oct-16
Power sensor NRP-Z91 Reterance 25 dB Attenuator Type-N mismatch combination Reterance Probe EX30V4 DAE4 Secondary Standards Power meter EPM-442A Power sensor HP 8481A RE generator RES SINT-06	SN: 103245 SN: 6088 (20k) SN: 5047.2 / 06327 SN: 7349 SN: 601 ID 4 SN: 0837480704 SN: US37292793 SN: MY41082317 SN: 103972 SN: US37390585 Neme	06-Apr-16 (No. 217-02288) 06-Apr-16 (No. 217-02280) 06-Apr-16 (No. 217-02280) 05-Apr-16 (No. 217-02280) 31-Dec-15 (No. EX3-7349 _Dec16) 30-Dec-15 (No. DAE4-601 _Dec15) Check Date (in house) 07-Oct-15 (No. 217-02222) 07-Oct-16 (No. 217-02222) 07-Oct-16 (No. 217-02223) 15-Jun-15 (in house check Jun-15) 18-Oct-01 (in house check Dct-15)	Apr-17 Apr-17 Apr-17 Dec-16 Dec-16 Scheduled Check In house check: Oct-16
Power sensor NRP-Z91 Reterance 20 dB Attenuator Type- N mismatch combination Reterance Probe EX3DV4 DAE4 Secondary Standards Power sensor HP 8481A Power sensor HP 8481A RE generator R&S SMT-06 Network Analyzer NP 8763E Cellerified by:	SN: 103245 SN: 9088 (20k) SN: 9047.2 / 06327 SN: 7349 SN: 601 ID 4 SN: 0637480704 SN: US37292793 SN: #74*082317 SN: 100872 SN: 100872 SN: US37390585 Neme	06-Apr-16 (No. 217-02288) 06-Apr-16 (No. 217-02288) 06-Apr-16 (No. 217-02288) 31-Dec-15 (No. EX3-7349 Dec16) 30-Dec-15 (No. EX4-601 Dec15) Check Date (in house) 07-Oct-15 (No. 217-02222) 07-Oct-15 (No. 217-02222) 07-Oct-16 (No. 217-02223) 15-Jun-15 (in house check Jun-15) 18-Oct-01 (in house check Det-15) Function Laboratory Technician	Apr-17 Apr-17 Apr-17 Dec-16 Dec-16 Schadulad Chack In house chack: Oct-16

Certificate No: D2450V2-727_Apr16

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Engineering AG aughausstrasse 43, 8004 Zurich, Switzpriand





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According by the Swiss Accordinator, Service (SAS)

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Glossary:

TSL tissue simulating liquid sensitivity in TSL / NORM x,y,z ConvF not applicable or not measured N/A

Calibration is Performed According to the Following Standards:

- a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- b) IEC 62209-1, "Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)11 February 2005
- c) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)*, March 2010.
- d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

e) DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions: Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL; The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- Feed Point Impedance and Return Loss: These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- Electrical Delay: One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- SAR measured: SAR measured at the stated antenna input power.
- SAR normalized: SAR as measured, normalized to an input power of 1 W at the antenna connector
- SAR for nominal TSL parameters: The measured TSL parameters are used to calculate the nominal SAR result.

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

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Ponn 2 of 8

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Measurement Conditions

And I system comiguration, as iai as not	5	
DASY Version	DASY5	V52.8.8
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	2450 MHz ± 1 MHz	

Head TSL parameters

he following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	39.2	1.80 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	40.0 ± 6 %	1.83 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	12.8 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	51.0 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	250 mW input power	5.93 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	23.7 W/kg ± 16.5 % (k=2)

Body TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	52.7	1.95 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	52.7 ± 6 %	1.98 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C		

SAR result with Body TSL

SAR averaged over 1 cm ² (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	12.5 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	49.6 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Body TSL	condition	
SAR measured	250 mW input power	5.86 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	23.3 W/kg ± 16.5 % (k=2)

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Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	55.3 Ω + 2.0 jΩ
Return Loss	- 25.4 dB

Antenna Parameters with Body TSL

Impedance, transformed to feed point	52.1 Ω + 4.8 jΩ
Return Loss	- 25.9 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.148 ns

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve metching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG
Manufactured on	January 09, 2003

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DASY5 Validation Report for Head TSL

Date: 19.04.2016

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN: 727

Communication System: UID 0 - CW; Frequency: 2450 MHz.

Medium parameters used: f = 2450 MHz; $\sigma = 1.83 \text{ S/m}$; $\epsilon_r = 40$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 SN7349; ConvF(7.76, 7.76, 7.76); Calibrated: 31.12.2015;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 30.12,2015.
- Phantom: Flat Phantom 5.0 (front); Type: QD000P50AA; Serial: 1001
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7372)

Dipole Calibration for Head Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 112.1 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 25.7 W/kg

SAR(1 g) = 12.8 W/kg; SAR(10 g) = 5.93 W/kg

Maximum value of SAR (measured) = 20.8 W/kg



0 dB = 20.8 W/kg = 13.18 dBW/kg

Certificate No. D2450V2-727 Apr16

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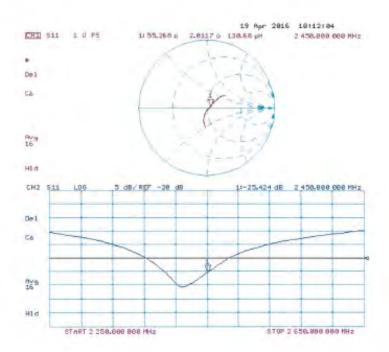
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Impedance Measurement Plot for Head TSL



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





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Accreditation No.: SCS 0108

CALIBRATION	CERTIFICATI		
Ottocr	D2600V2 - SN: 1	1005	
Calibration (moedanejs)	QA CAL-05.v9 Calibration proce	edure for dipole validation kits ab	oove 700 MH≥
Continue dain.	January 21, 2018	3	
This calibration perificate docum The measurements and the unce	ents the traceability to nati daunties with confidence p	ional standards, which implice the physical o inobability are given on the following pages a	ints of measurements (SI); and are part of the certificate.
All calibrations have been conduc	cted in the closed taborato	ry facility: environment temperature (22 ± 3)	°C and humidity < 70%.
Calibration Equipment used (MS)	TE critical for calibration)		
	TE official for calibration)	Cal Date (Certificate No.)	Scheduled Calibration
Primary Standards	7	Cal Date (Certificate No.) 07-Oct-15 (No. 217-02222)	Scheduled Carb mion Oct-16
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rimary Standards Ower motor EPM-442A lower sensor HP 9481A Ower sensor HP 9481A	ID 4 GB37480704	07-Oct-15 (No. 217-02222)	Oct-16
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Primary Standards Power meter EPM-442A Power sensor HP 9481 A Power sensor HP 8481 A Reference 20 dB Attenuator Type N mismatish combination	ID # GB37480704 US37392783 MY41082317 SN: 5069 (204) SN: 5047.2 / 06327	07-Oct-15 (No. 217-02222) 07-Oct-15 (No. 217-02222) 07-Oct-15 (No. 217-02223)	Oct-16 Oct-16 Oct-16
Primary Standards Power meter EPM-442A Power sensor HP 9481 A Peterence 20 dB Attenuator Type N mematich combination Relatance Probe EX3DV4	ID A GB37480704 US37292763 MY41092317 SN: 5068 (20H) SN: 5047.2 / 06327 SN: 7349	07-Oct-15 (No. 217-02222) 07-Oct-15 (No. 217-02222) 07-Oct-15 (No. 217-02223) 01-Apr-15 (No. 217-02131) 01-Apr-15 (No. 217-02134) 31-Dec-15 (No. EX3-7349_Occ15)	Oct-16 Oct-16 Oct-16 Mar-16 Mar-18 Dec-16
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Primary Standards Power meter EPM-442A Power sensor HP 8481A Power sensor HP 8481A Reference 20 dB Attenuator ryppin mismatch combination Reference Probe EX3DV4 DAE4	ID A GB37480704 US37292763 MY41092317 SN: 5068 (20H) SN: 5047.2 / 06327 SN: 7349	07-Oct-15 (No. 217-02222) 07-Oct-15 (No. 217-02222) 07-Oct-15 (No. 217-02223) 01-Apr-15 (No. 217-02131) 01-Apr-15 (No. 217-02131) 01-per-15 (No. 217-02134) 31-Dec-15 (No. EX3-7349_Dec15) 30-Dec-15 (No. DAE4-601_Dec15)	Oct-16 Oct-16 Oct-16 Mar-16 Mar-18 Dec-16
Primary Standards Power meter EPM-442A Power sensor HP 8481A Power sensor HP 8481A Peterence 20 dB Attenuator Type-N mismatch combination talianance Probe EX3DV4 DAE4 Secondary Standards	ID 4 GB37480704 US37292783 MY41082317 SN: 5050 (204) SN: 5047-2 / 06327 SN: 7348 SN: 601	07-Oct-15 (No. 217-02222) 07-Oct-15 (No. 217-02222) 07-Oct-15 (No. 217-02223) 01-Apr-15 (No. 217-02131) 01-Apr-15 (No. 217-02134) 31-Dec-15 (No. EX3-7349_Occ15)	Oct-16 Oct-15 Oct-15 Maj-16 Maj-18 Dec-16
Calibration Equipment used (MS: Primary Standards Power meter EPM-442A Power sensor HP 8481 A Power sensor HP 8481 A Petersnoe 20 dB Attenuator Pype N insimation combination Relaterics Probe EX3DV4 DAE4 Secondary Standards HF generator R&S SMT-06 Notwork Analyzar HP 8753E	ID 4 GB37480704 US37292783 MY41082317 SN: 5058 (204) SN: 5047.2 / 06327 SN: 7348 SN: 601	07-Oct-15 (No. 217-02222) 07-Oct-15 (No. 217-02222) 07-Oct-15 (No. 217-02223) 01-Apr-15 (No. 217-02131) 01-Apr-15 (No. 217-02131) 31-Dec-15 (No. EX3-7349, Dec15) 30-Dec-15 (No. DAE4-601, Dec15) Check Date (in house)	Oct-16 Oct-16 Oct-15 Oct-15 Mar-16 Mar-16 Dec-16 Dec-16 Scheduled Check
Primary Standards Power meter EPM-442A Power sensor HP 8481A Secondary Standards RE generator R&S SMT-06	ID # GB37480704 US37292763 MY41082317 SN: 5060 (204) SN: 5047-2 / 06327 SN: 7348 SN: 801	07-Oct-15 (No. 217-02222) 07-Oct-15 (No. 217-02222) 07-Oct-15 (No. 217-02222) 01-Apr-15 (No. 217-02233) 01-Apr-15 (No. 217-02131) 01-Apr-15 (No. 217-02131) 31-Dec-15 (No. EX3-7349_Dec15) 30-Dec-15 (No. EX3-7349_Dec15) 30-Dec-15 (No. DAE4-801_Dec15) Check Date (in house) 15-Jun-15 (in house check Jun-15) 18-Oct-01 (in house check Oct-16)	Oct-16 Oct-15 Oct-15 Mar-16 Mar-16 Mar-16 Dec-16 Dec-16 Scheduled Creck In house check: Jun-18 In house check: Oct-16
Primary Standards Power meter EPM-442A Power sensor HP 8481A Secondary Standards RE generator R&S SMT-06	ID 4 GB37480704 US37292783 MY41082317 SN: 5050 (204) SN: 5047-2 / 06327 SN: 7348 SN: 601 ID # 100972 US37390585 54206	07-Oct-15 (No. 217-02222) 07-Oct-15 (No. 217-02222) 07-Oct-15 (No. 217-02222) 07-Apr-15 (No. 217-02233) 01-Apr-15 (No. 217-02131) 01-Apr-15 (No. 217-02134) 31-Dec-15 (No. EX3-7349 Dec15) 30-Dec-15 (No. DAE4-601 Dec15) Check Date (in house)	Oct-16 Oct-15 Oct-15 May-16 May-18 Dec-16 Dec-16 Dec-16 Scheduled Creck In house check: Jun-18
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Certificate No: D2600V2-1005_Jan16

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Glossary:

TSL ConvF N/A tissue simulating liquid

sensitivity in TSL / NORM x,y,z not applicable or not measured

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 measurement at the SMA connector to the feed point. The Return Loss ensures low
 reflected power. No uncertainty required.
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Certifique No: D2600Y2-1005_Jan16

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Measurement Conditions

as far as not given on pege 1

DASY Version	DASY5	V52.8.8
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	2600 MHz ± 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	39.0	1.96 mha/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	37.3 ± 6 %	2.04 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	****	

SAR result with Head TSL

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	14.2 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	55.2 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	250 mW input power	6.29 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	24.7 W/kg ± 16.5 % (k=2)

Body TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	52.5	2.16 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	51.6 ± 6 %	2.22 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C		

SAR result with Body TSL

SAR averaged over 1 cm3 (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	13.7 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	53.9 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Body TSL	condition	
SAR measured	250 mW input power	6.10 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	24.2 W/kg ± 16.5 % (k=2)

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Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	51.2 Ω - 4.2 jΩ
Return Loss	- 27.2 dB

Antenna Parameters with Body TSL

Impedance, transformed to feed point	45.6 Ω - 3.3 jΩ	
Return Loss	- 24.8 dB	

General Antenna Parameters and Design

Electrical Delay (one direction)	1.154 ns

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG
Manufactured on	December 23, 2006

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DASY5 Validation Report for Head TSL

Date: 21.01.2016

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: D2600V2 - SN: 1005

Communication System: UID 0 - CW; Frequency: 2600 MHz

Medium parameters used: f = 2600 MHz; $\sigma = 2.04 \text{ S/m}$; $s_r = 37.3$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

Probe: EX3DV4 - SN7349; ConvF(7.49, 7.49, 7.49); Calibrated: 31.12.2015;

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn601; Calibrated: 30.12.2015

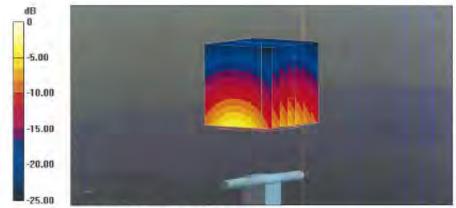
Phantom: Flat Phantom 5.0 (front); Type: QD000P50AA; Serial: 1001

DASY52 52.8.8(1258); SEMCAD X 14.6.10(7372)

Dipole Calibration for Head Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 114.8 V/m; Power Drift = 0.01 dB Peak SAR (extrapolated) = 30.2 W/kg SAR(1 g) = 14.2 W/kg; SAR(10 g) = 6.29 W/kg

Maximum value of SAR (measured) = 24.0 W/kg



0 dB = 24.0 W/kg = 13.80 dBW/kg

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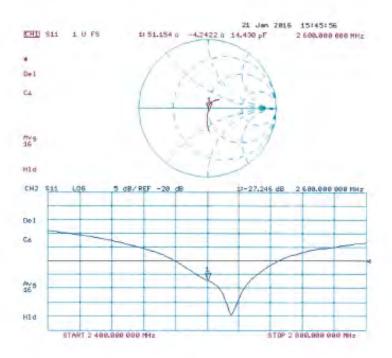
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Impedance Measurement Plot for Head TSL



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DASY5 Validation Report for Body TSL

Date: 21.01.2016

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: D2600V2 - SN: 1005

Communication System: UID 0 - CW; Frequency: 2600 MHz

Medium parameters used: f = 2600 MHz; $\sigma = 2.22 \text{ S/m}$; $\epsilon_r = 51.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

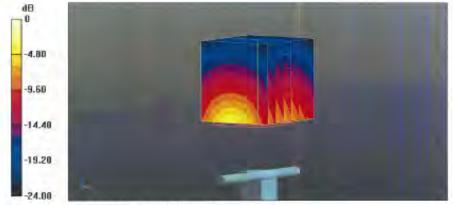
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 SN7349; ConvF(7.6, 7.6, 7.6); Calibrated: 31.12.2015;
- Sensor-Surface; 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 30.12.2015
- Phantom: Flat Phantom 5.0 (back); Type: QD000P50AA; Serial: 1002
- DASY52 52.8,8(1258); SEMCAD X 14.6.10(7372)

Dipole Calibration for Body Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 106.7 V/m; Power Drift = 0.02 dB Peak SAR (extrapolated) = 28.4 W/kg SAR(1 g) = 13.7 W/kg; SAR(10 g) = 6.1 W/kg Maximum value of SAR (measured) = 22.8 W/kg



0 dB = 22.8 W/kg = 13.58 dBW/kg

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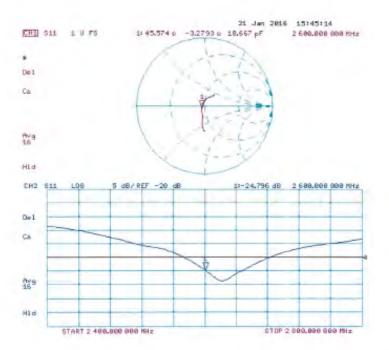
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Impedance Measurement Plot for Body TSL



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Calibration Laboratory of

Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland





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Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

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SGS-TW (Auden)

Certificate No. D5GHzV2-1023 Jan 16 CALIBRATION CERTIFICATE D5GHzV2 - SN: 1023 Chiech QA CAL-22.V2 Calibration procedure(s) Calibration procedure for dipole validation kits between 3-6 GHz Calibration date January 26, 2016 This colloration certificate documents the traceability to national standards, which realize the physical units of measurements (Si) The measurements, and the uncontainties with confidence probability are given on the following pages and are cart of the certificate, All collorations have been conducted in the closed laboratory facility: environment temperature (22 a 31°C and humidity < 70%, Calibration Equipment used (M&TE critical for calibration) DA Cai Date (Certificate No.) Scheduled Calibration Primary Standards GB37480704 Power meter EPM-442A 07-Oct 15 (No. 217-02222) Oct-16 US37292783 07-Oct-15 (No. 217-02222) Power sensor HP 8461A Oct-16 Power sonsor HP 8481A MY41092317 07-Oct-15 (No. 217-02223) Oct-16 Reference 20 dB Attenuator SN: 5055 (20k) 01-Apr-15 (No. 217-02131) Mar-16 Type-N mismatch combination SN: 5047.2 / 06327 01-Apr-15 (No. 217-02154) May-16 Reference Probe EX3DV4 SM 3503 31 Dec-15 (No. EX3-3533_Dec/15) Dec-18 DAE4 SN. 801 30-Dec-15 (No. DAE4-601_Dec15) Dec-16 Secondary Standards ID # Check Date (in house) Scheduled Check 15-Jun-15 (in house check Jun-15) RF generator R&S SMT-06 100972 In house check: Jun-18 HS37390585-\$4205 In house check: Oct-16 Nelwork Analyzar HP 8753E 18-Oct-01 (in house check Oct-15) Name **Function** Calibrated by Michael Weber Liaboratory Technician Kata Poković Technical Manager Approved by This calibration cartificate shall not be reproduced except in full without written approval of the incoratory

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Calibration Laboratory of Schmid & Partner

Engineering AG Userranne 43, 8004 Zurich, Switzerland





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Accreditation No.: SCS 0108

Accounting by the Swillia Accounting on Service (SAS).

The Swiss Accreditation Service is one of the signatories to the EA Multilatoral Agreement for the recognition of calibration certifica

Glossary:

TSL ConvF N/A

tissue simulating liquid

sensitivity in TSL / NORM x,y,z not applicable or not measured

Calibration is Performed According to the Following Standards:

- a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- b) IEC 62209-2, *Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30. MHz to 6 GHz)", March 2010
- KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

d) DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions: Further details are available from the Validation Report at the end. of the cartificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL: The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- Fued Point Impedance and Return Loss: These parameters are measured with the dipole positioned under the liquid filled phantom. The Impedance stated is transformed from the measurement at the SMA convector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- Electrical Delay: One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- SAR measured: SAR measured at the stated antenna input power.
- SAR normalized: SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters: The measured TSL parameters are used to calculate the nominal SAR result.

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

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Measurement Conditions

WST system configuration, as lar as not	given on page 1.	
DASY Version	DASY5	V52.8.8
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom V5.0	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, $dy = 4.0$ mm, $dz = 1.4$ mm	Graded Ratio = 1.4 (Z direction)
Frequency	5200 MHz ± 1 MHz 5300 MHz ± 1 MHz 5600 MHz ± 1 MHz 5600 MHz ± 1 MHz	

Head TSL parameters at 5200 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	36.0	4.66 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	35.2 ± 6 %	4.51 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL at 5200 MHz

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	7.74 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	77.0 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.23 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	22.1 W/kg ± 19.5 % (k=2)

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Head TSL parameters at 5300 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.9	4.76 mha/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	35.1 ± 6 %	4.60 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL at 5300 MHz

SAR averaged over 1 cm3 (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	8.03 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	79.9 W / kg ± 19.9 % (k=2)

SAR averaged over 10 cm3 (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.33 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	23.1 W/kg ± 19.5 % (k=2)

Head TSL parameters at 5600 MHz

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.5	5.07 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	34.7 ± 6 %	4.90 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL at 5600 MHz

SAR averaged over 1 cm3 (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	8.31 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	82.6 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.38 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	23.6 W/kg ± 19.5 % (k=2)

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Head TSL parameters at 5800 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.3	5.27 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	34.4 ± 6 %	5.10 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL at 5800 MHz

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	7.78 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	77.3 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.22 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	22.0 W/kg ± 19.5 % (k=2)

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Body TSL parameters at 5200 MHz

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	49.0	5.30 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	47.1 ± 6 %	5.37 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C		

SAR result with Body TSL at 5200 MHz

SAR averaged over 1 cm ³ (1 g) of Body TSL	Condition	
SAR measured	100 mW input power	7.25 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	71.9 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ² (10 g) of Body TSL	condition	
SAR measured	100 mW input power	2.05 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	20.3 W/kg ± 19.5 % (k=2)

Body TSL parameters at 5300 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	48.9	5.42 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	46.9 ± 6 %	5.50 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C		

SAR result with Body TSL at 5300 MHz

SAR averaged over 1 cm3 (1 g) of Body TSL	Condition	
SAR measured	100 mW input power	7.57 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	75.1 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm3 (10 g) of Body TSL	condition	
SAR measured	100 mW input power	2.14 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	21.2 W/kg ± 19.5 % (k=2)

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Body TSL parameters at 5600 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	48.5	5.77 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	46.4 ± 6 %	5.91 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C		

SAR result with Body TSL at 5600 MHz

SAR averaged over 1 cm ³ (1 g) of Body TSL	Condition	
SAR measured	100 mW input power	7.89 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	78.3 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm² (10 g) of Body TSL	condition	
SAR measured	100 mW input power	2.23 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	22.1 W/kg ± 19.5 % (k=2)

Body TSL parameters at 5800 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	48.2	6.00 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	46.0 ± 6 %	6.19 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C		

SAR result with Body TSL at 5800 MHz

SAR averaged over 1 cm3 (1 g) of Body TSL	Condition	
SAR measured	100 mW input power	7.59 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	75.3 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Body TSL	condition	
SAR measured	100 mW input power	2.13 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	21.1 W/kg ± 19.5 % (k=2)

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Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL at 5200 MHz

Impedance, transformed to feed point	49.1 Ω - 8.4 jΩ
Return Loss	- 21.4 dB

Antenna Parameters with Head TSL at 5300 MHz

Impedance, transformed to feed point	49.6 Ω · 4.2 jΩ
Return Loss	- 27.4 dB

Antenna Parameters with Head TSL at 5600 MHz

Impedance, transformed to feed point	54.9 Ω - 1.4 jΩ
Return Loss	- 26.3 dB

Antenna Parameters with Head TSL at 5800 MHz

Impedance, transformed to feed point	55.9 Ω + 2.2 jΩ
Return Loss	- 24.5 dB

Antenna Parameters with Body TSL at 5200 MHz

	Impedance, transformed to feed point	49.4 Ω - 6.8 jΩ
1	Return Loss	- 23.3 dB

Antenna Parameters with Body TSL at 5300 MHz

Impedance, transformed to feed point	50.9 Ω - 2.4 jΩ
Return Loss	- 31.8 dB

Antenna Parameters with Body TSL at 5600 MHz

Impedance, transformed to feed point	56.0 Ω - 0.1 jΩ
Fleturn Loss	- 25.0 dB

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Antenna Parameters with Body TSL at 5800 MHz

Impedance, transformed to feed point	56.4 Ω + 2.4 jΩ
Return Loss	- 23.8 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.199 ns

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG
Manufactured on	February 05, 2004

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DASY5 Validation Report for Head TSL

Date: 26.01.2016

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole D5GHzV2; Type: D5GHzV2; Scrial: D5GHzV2 - SN: 1023

Communication System: UID 0 - CW; Frequency: 5200 MHz, Frequency: 5300 MHz, Frequency: 5600

MHz, Frequency: 5800 MHz

Medium parameters used: f=5200 MHz; $\sigma=4.51$ S/m; $\epsilon_r=35.2$; $\rho=1000$ kg/m³, Medium parameters used: f=5300 MHz; $\sigma=4.6$ S/m; $\epsilon_r=35.1$; $\rho=1000$ kg/m³, Medium parameters used: f=5600 MHz; $\sigma=4.9$ S/m; $\epsilon_r=34.7$; $\rho=1000$ kg/m³, Medium parameters used: f=5800 MHz; $\sigma=5.1$ S/m; $\epsilon_r=34.4$; $\rho=1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 SN3503; ConvF(5.59, 5.59, 5.59); Calibrated: 31.12.2015, ConvF(5.25, 5.25, 5.25); Calibrated: 31.12.2015, ConvF(4.99, 4.99, 4.99); Calibrated: 31.12.2015, ConvF(4.95, 4.95, 4.95); Calibrated: 31.12.2015;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- · Electronics: DAE4 Sn601; Calibrated: 30.12.2015
- Phantom: Flat Phantom 5.0 (front); Type: QD000P50AA; Scrial: 1001
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7372)

Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5200 MHz/Zoom Scan,

dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 72.68 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 28.1 W/kg

SAR(1 g) = 7.74 W/kg; SAR(10 g) = 2.23 W/kgMaximum value of SAR (measured) = 17.8 W/kg

Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5300 MHz/Zoom Scan,

dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 73.14 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 30.0 W/kg

SAR(1 g) = 8.03 W/kg; SAR(10 g) = 2.33 W/kgMaximum value of SAR (measured) = 18.7 W/kg

Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5600 MHz/Zoom Scan,

dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 73.32 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 32.6 W/kg

SAR(1 g) = 8.31 W/kg; SAR(10 g) = 2.38 W/kgMaximum value of SAR (measured) = 19.8 W/kg

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Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5800 MHz/Zoom Scan,

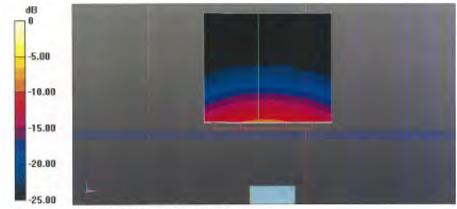
dist=1.4mm (8x8x7)/Cube 0: Measurement grid; dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 70.15 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 32.0 W/kg

SAR(1 g) = 7.78 W/kg; SAR(10 g) = 2.22 W/kg

Maximum value of SAR (measured) = 18.8 W/kg



0 dB = 18.8 W/kg = 12.74 dBW/kg

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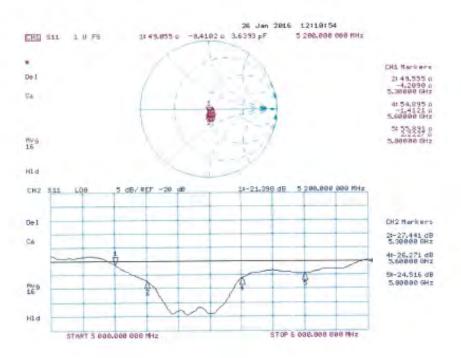
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Impedance Measurement Plot for Head TSL



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DASY5 Validation Report for Body TSL

Date: 25.01.2016

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 5GHz; Type: D5GHzV2; Serial: D5GHzV2 - SN: 1023

Communication System: UID 0 - CW; Frequency: 5200 MHz, Frequency: 5300 MHz, Frequency: 5600

MHz, Frequency: 5800 MHz

Medium parameters used: f = 5200 MHz; $\sigma = 5.37 \text{ S/m}$; $\varepsilon_c = 47.1$; $\rho = 1000 \text{ kg/m}^3$, Medium parameters used: f = 5300 MHz; $\sigma = 5.5$ S/m; $\epsilon_r = 46.9$; $\rho = 1000$ kg/m³, Medium parameters used: f = 5600 MHz; $\sigma =$ 5.91 S/m; $\varepsilon_c = 46.4$; $\rho = 1000 \text{ kg/m}^3$, Medium parameters used: f = 5800 MHz; $\sigma = 6.19 \text{ S/m}$; $\varepsilon_c = 46$; $\rho = 5800 \text{ MHz}$; $\sigma = 6.19 \text{ S/m}$; $\varepsilon_c = 6.19$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 SN3503; ConvF(4.99, 4.99, 4.99); Calibrated: 31.12.2015, ConvF(4.75, 4.75, 4.75); Calibrated: 31.12.2015, ConvF(4.35, 4.35, 4.35); Calibrated: 31.12.2015, ConvF(4.27, 4.27, 4.27); Calibrated: 31.12.2015;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 30.12.2015
- Phantom: Flat Phantom 5.0 (back); Type: QD000P50AA; Serial: 1002
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7372)

Dipole Calibration for Body Tissue/Pin=100mW, dist=10mm, f=5200 MHz/Zoom Scan,

dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 66.72 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 27.1 W/kg

SAR(1 g) = 7.25 W/kg; SAR(10 g) = 2.05 W/kg

Maximum value of SAR (measured) = 16.8 W/kg

Dipole Calibration for Body Tissue/Pin=100mW, dist=10mm, f=5300 MHz/Zoom Scan,

dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 67.43 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 29.1 W/kg

SAR(1 g) = 7.57 W/kg; SAR(10 g) = 2.14 W/kg

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

Dipole Calibration for Body Tissue/Pin=100mW, dist=10mm, f=5600 MHz/Zoom Scan,

dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 67.67 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 32.6 W/kg

SAR(1 g) = 7.89 W/kg; SAR(10 g) = 2.23 W/kg

Maximum value of SAR (measured) = 19.1 W/kg

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Dipole Calibration for Body Tissue/Pin=100mW, dist=10mm, f=5800 MHz/Zoom Scan,

dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 65.76 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 33.0 W/kg

SAR(1 g) = 7.59 W/kg; SAR(10 g) = 2.13 W/kg

Maximum value of SAR (measured) = 18.5 W/kg



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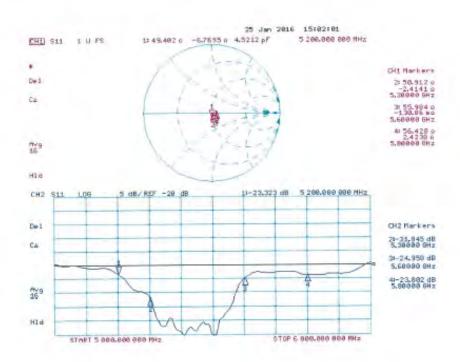
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Impedance Measurement Plot for Body TSL



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- End of 1st part of report -

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