FCC SAR Test Report

APPLICANT : Motorola Mobility LLC EQUIPMENT : Mobile Cellular Phone

BRAND NAME : Motorola

MODEL NAME : XT2347-1

FCC ID : IHDT56AN1

STANDARD : FCC 47 CFR Part 2 (2.1093)

We, Sporton International Inc. (Shenzhen), would like to declare that the tested sample has been evaluated in accordance with the test procedures given in 47 CFR Part 2.1093 and FCC KDB and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (Shenzhen), the test report shall not be reproduced except in full.

Si Zhang

Approved by: Si Zhang

ACCREDITE Cert #5145.0

Sporton International Inc. (Shenzhen)

1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China

TEL: +86-755-86379589 / FAX: +86-755-86379595

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Revision History

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA352602	Rev. 02	Initial issue of report.	Jul. 17, 2023

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1. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for **Motorola Mobility LLC**, **Mobile Cellular Phone**, **XT2347-1**, are as follows.

	,	Highest	: 1g SAR Summa	ry		
Equipment Class		quency 3and	Body-worn (Separation 5mm)	Highest Simultaneous Transmission 1g SAR (W/kg)		
	GSM	GSM850	0.70	1.25	1.25	
	GSIVI	GSM1900	0.23	1.28	1.05	
		WCDMA II	0.38	1.15	1.17	
	WCDMA	WCDMA IV	0.16	1.16	1.14	
		WCDMA V	0.53	1.16	1.16	
		LTE Band 7	0.66	1.16	1.16	
	LTE	LTE Band 12/17	0.81	1.21	1.21	
		LTE Band 13	0.73	1.21	1.21	
		LTE Band 25/2	0.87	1.17	1.23	
Licensed		LTE Band 26/5	0.77	1.17	1.17	1.59
		LTE Band 66/4	0.93	1.16	1.26	
		LTE Band 41/38	0.84	1.23	1.23	
		LTE Band 42	0.86	0.61	0.93	
		FR1 n2	0.86	1.28	1.27	
		FR1 n7	0.91	1.27	1.27	
	5G NR	FR1 n26/5	0.90	1.27	1.27	
	JG NK	FR1 n66	0.93	1.18	1.16	
		FR1 n41/38	0.85	0.61	0.94	
		FR1 n78	0.94	1.28	1.28	
DTS	WLAN	2.4GHz WLAN	1.11	0.73	1.19	1.59
NII	WLAIN	5GHz WLAN	1.14	0.74	1.13	1.59
DSS	Bluetooth	2.4GHz Bluetooth	0.73	0.50	0.50	1.55

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		Highest 10	g SAR Summary	
Equipment Class		quency 3and	Product Specific 10g SAR (W/kg) (Separation 0mm)	Highest Simultaneous Transmission 10g SAR (W/kg)
	GSM	GSM850	2.85	
	GOW	GSM1900	3.00	
		WCDMA II	2.92	
	WCDMA	WCDMA IV	2.89	
		WCDMA V	3.17	
	LTE	LTE Band 7	2.98	
		LTE Band 12/17	2.63	
		LTE Band 13	2.75	
		LTE Band 25/2	2.88	
Licensed		LTE Band 26/5	3.17	3.97
		LTE Band 66/4	2.95	
		LTE Band 41/38	2.44	
		LTE Band 42	2.29	
		FR1 n2	3.09	
		FR1 n7	2.79	
	5G NR	FR1 n26/5	2.52	
	DG NK	FR1 n66	3.18	
		FR1 n41/38	2.33	
		FR1 n78	2.76	
DTS	\A/I A N I	2.4GHz WLAN	1.07	3.97
NII	WLAN 5GHz WLAN		2.72	3.83
	Date of Testir	ng:	2023/6/14 ~ 2023/7/10	
Domark:				

Remark:

- 1. This device supports LTE B2 / B4 / B5 / B17 / B38 and B25 / B66 / B26 / B12 / B41. Since the supported frequency span for LTE B2 / B4 / B5 / B17 / B38 falls completely within the supports frequency span for LTE B25 / B66 / B26 / B12 / B41, both LTE bands have the same target power, and both LTE bands share the same transmission path; therefore, SAR was only assessed for LTE B25 / B66 / B26 / B12 / B41.
- This device supports 5GNR n38/n5 and n41/n26. Since the supported frequency span for 5GNR n38/n5 falls completely within the supports frequency span for n41/n26, both 5GNR bands have the same target power, and both 5GNR bands share the same transmission path; therefore, SAR was only assessed for n41/n26.

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

This device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6 W/kg for Partial-Body 1g SAR, 4.0 W/kg for Product Specific 10g SAR) specified in FCC 47 CFR part 2 (2.1093) and ANSI/IEEE C95.1-1992, and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2013 and FCC KDB publications.

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2. Administration Data

Sporton International Inc. (Shenzhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Report No.: FA352602

Laboratory / toorcaltatio	T WILL COLLINGATO HALLIDO	1 0 1 10.0 1.						
Testing Laboratory								
Test Firm	Sporton International Inc	Sporton International Inc. (Shenzhen)						
Test Site Location	1/F, 2/F, Bldg 5, Shiling People's Republic of Ch TEL: +86-755-86379589 FAX: +86-755-86379599	ina 9	Xili, Nanshan, Shenzhen, 518055					
T4 0%- N-	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.					
Test Site No.	SAR03-SZ SAR05-SZ	CN1256	421272					

Applicant							
Company Name Motorola Mobility LLC							
Address	222 W,Merchandise Mart Plaza, Chicago IL 60654 USA						

Manufacturer					
Company Name	Motorola Mobility LLC				
Address	222 W,Merchandise Mart Plaza, Chicago IL 60654 USA				

3. Guidance Applied

The Specific Absorption Rate (SAR) testing specification, method, and procedure for this device is in accordance with the following standards:

- FCC 47 CFR Part 2 (2.1093)
- ANSI/IEEE C95.1-1992
- IEEE 1528-2013
- FCC KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04
- FCC KDB 865664 D02 SAR Reporting v01r02
- FCC KDB 447498 D01 General RF Exposure Guidance v06
- FCC KDB 648474 D04 SAR Evaluation Considerations for Wireless Handsets v01r03
- FCC KDB 248227 D01 802.11 Wi-Fi SAR v02r02
- FCC KDB 616217 D04 SAR for laptop and tablets v01r02
- FCC KDB 941225 D01 3G SAR Procedures v03r01
- FCC KDB 941225 D05 SAR for LTE Devices v02r05
- FCC KDB 941225 D05A Rel.10 LTE SAR Test Guidance v01r02
- FCC KDB 941225 D06 Hotspot Mode SAR v02r01

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4. Equipment Under Test (EUT) Information

4.1 General Information

Product Feature & Specification Equipment Name Mobile Cellular Phone Brand Name Motorola Model Name XT2347-1	
Brand Name Motorola	
Model Name XT2347-1	
FCC ID IHDT56AN1	
Sample 1:	
IMEI 1: 357231700039498	
IMEI Code IMEI 2: 357231700039506	
Sample 2:	
IMEI 1: 357231700057672	
IMEI 2: 357231700057680 GSM850: 824 MHz ~ 849 MHz	
GSM1900: 1850 MHz ~ 1910 MHz	
WCDMA Band II: 1850 MHz ~ 1910 MHz	
WCDMA Band IV: 1710 MHz ~ 1755 MHz	
WCDMA Band V: 824 MHz ~ 849 MHz	
LTE Band 2: 1850 MHz ~ 1910 MHz	
LTE Band 4: 1710 MHz ~ 1755 MHz	
LTE Band 5: 824 MHz ~ 849 MHz LTE Band 7: 2500 MHz ~ 2570 MHz	
LTE Band 12: 699 MHz ~ 716 MHz	
LTE Band 13: 777 MHz ~ 787 MHz	
LTE Band 17: 704 MHz ~ 716 MHz	
LTE Band 25: 1850 MHz ~ 1915 MHz	
LTE Band 26: 814 MHz ~ 849 MHz	
LTE Band 38: 2570 MHz ~ 2620 MHz	
Wireless Technology TE Panel 43: 2496 MHz ~ 2690 MHz	
and Frequency Range LTE Band 42: 3450 MHz ~3550 MHz LTE Band 66: 1710 MHz ~ 1780 MHz	
5G NR n2 : 1850 MHz ~ 1910 MHz	
5G NR n5: 824 MHz ~ 849 MHz	
5G NR n7: 2500 MHz ~ 2570 MHz	
5G NR n26 : 814 MHz ~ 849 MHz	
5G NR n66: 1710 MHz ~ 1780 MHz	
5G NR n38 : 2570 MHz ~ 2620 MHz	
5G NR n41 : 2496 MHz ~ 2690 MHz 5G NR n78: 3450 MHz ~ 3550 MHz	
WLAN 2.4GHz Band: 2412 MHz ~ 2462 MHz	
WLAN 5.2GHz Band: 5180 MHz ~ 5240 MHz	
WLAN 5.3GHz Band: 5260 MHz ~ 5320 MHz	
WLAN 5.5GHz Band: 5500 MHz ~ 5720 MHz	
WLAN 5.8GHz Band: 5745 MHz ~ 5825 MHz	
Bluetooth: 2402 MHz ~ 2480 MHz	
NFC: 13.56 MHz GSM/GPRS/EGPRS	
RMC/AMR 12.2Kbps	
HSDPA	
HSUPA	
HSPA+(16QAM uplink is supported)	
LTE: QPSK, 16QAM, 64QAM, 256QAM	
Mode 5G NR: CP-OFDM / DFT-s-OFDM, PI/2 BPSK, QPSK, 16QAM, 64C)AM, 256QAM
WLAN 2.4GHz 802.11b/g/n HT20/HT40	
WLAN 2.4GHz 802.11ac VHT20/VHT40 WLAN 5GHz 802.11a/n HT20/HT40	
WLAN 5GHz 802.11a/l1 H120/H140 WLAN 5GHz 802.11ac VHT20/VHT40/VHT80	
Bluetooth BR/EDR/LE	
NFC: ASK	

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HW Version	DVT2
SW Version	T3TC33.12
GSM / (E)GPRS	Class B – EUT cannot support Packet Switched and Circuit Switched Network simultaneously
Transfer mode	but can automatically switch between Packet and Circuit Switched Network.
EUT Stage	Identical Prototype

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Remark:

- This device supports VoIP in GPRS, EGPRS, WCDMA and LTE (e.g. for 3rd-party VoIP), LTE supports VoLTE
 operation.
- 2. This device 2.4GHz WLAN support hotspot operation and Bluetooth support tethering applications.
- This device 5.2GHz WLAN/5.8GHz WLAN support hotspot operation, and 5.2GHz WLAN/5.8GHz WLAN supports WiFi Direct (GC/GO), and 5.3GHz / 5.5GHz supports WiFi Direct (GC only).
- 4. This device does not support DTM operation and supports GPRS/EGPRS mode up to multi-slot class 12.
- 5. The device implements the power management and proximity sensor /receiver detection/hotspot mode for SAR compliance at different exposure conditions (head, body-worn, hotspot, extremity) and the Qualcomm smart transmit will manage to ensure the power level not exceeding the associated power table. Details about the power management decision and sensor detection are provided in the operational description. And the device will invoke corresponding work scenarios power level base on frequency bands/antennas, which can refer to power table at appendix E.
- For WLAN/BT when transmit simultaneous with WWAN, power reduction will be activated to head. For WLAN when transmit simultaneous with WWAN and Proximity sensors trigger, power reduction will be activated to body-worn and Handheld.
- 7. There are two samples, the different between them refer to the XT2347-1_Operational Description of Product Equality Declaration which is exhibit separately. According to the differences, we choose sample 1 to perform full SAR testing and sample 2 to verify the worst case of sample 1.
- 8. This device has NFC function and the NFC SAR report will be separately submitted.
- This device supports 5GNR FR1 bands as following table, including NSA mode and SA mode. NSA and SA mode performed SAR separately.

<5G NR>

Mode	Band	Duplex	SCS(KHz)	Bandwidths(BW)
	n2	FDD	15	5, 10, 15, 20
	n5	FDD	15	5, 10, 15, 20
	n7	FDD	15	5, 10, 15, 20, 25, 30, 40
NSA	n66	FDD	15	5, 10, 15, 20, 30, 40
	n38	TDD	30	20, 30, 40
	n41	TDD	30	20, 30, 40, 50, 60, 70, 80, 90, 100
	n78	TDD	30	20, 30, 40, 50, 60, 70, 80, 90, 100
	n2	FDD	15	5, 10, 15, 20
	n5	FDD	15	5, 10, 15, 20
	n7	FDD	15	5, 10, 15, 20, 25, 30, 40
SA	n26	FDD	15	5, 10, 15, 20
SA	n66	FDD	15	5, 10, 15, 20, 30, 40
	n38	TDD	30	20, 30, 40
	n41	TDD	30	20, 30, 40, 50, 60, 70, 80, 90, 100
	n78	TDD	30	20, 30, 40, 50, 60, 70, 80, 90, 100

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4.2 General LTE SAR Test and Reporting Considerations

Summarize	d necessary ite	ms addres	sed in KD	B 94122	25 D05 v02	2r05		
FCC ID	IHDT56AN1							
Equipment Name	Mobile Cellular	Phone						
Operating Frequency Range of each LTE transmission band	LTE Band 2: 1850 MHz ~ 1910 MHz LTE Band 4: 1710 MHz ~ 1755 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 7: 2500 MHz ~ 2570 MHz LTE Band 12: 699 MHz ~ 716 MHz LTE Band 13: 777 MHz ~ 787 MHz LTE Band 17: 704 MHz ~ 716 MHz LTE Band 17: 704 MHz ~ 716 MHz LTE Band 25: 1850 MHz ~ 1915 MHz LTE Band 26: 814 MHz ~ 849 MHz LTE Band 38: 2570 MHz ~ 2620 MHz LTE Band 41: 2496 MHz ~ 2690 MHz LTE Band 42: 3450 MHz ~ 3550 MHz LTE Band 66: 1710 MHz ~ 1780 MHz							
Channel Bandwidth	LTE Band 2:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 4:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 5:1.4MHz, 3MHz, 5MHz, 10MHz LTE Band 7: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 12:1.4MHz, 3MHz, 5MHz, 10MHz LTE Band 13: 5MHz, 10MHz LTE Band 17: 5MHz, 10MHz LTE Band 25:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 26:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz LTE Band 38: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 41: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 42: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 42: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 66:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz							
uplink modulations used	QPSK / 16QAM	/ 64QAM /	256QAM					
LTE Voice / Data requirements	Voice and Data							
LTE Release Version	R15, Cat18							
CA Support	Supported, Upli	nk and Dov	wnlink					
	Table 6.2.3	4. Marrian	D	Dadiosi	(MDD)	(D	21 4 2	
LTE MPR permanently built-in by design	Modulation QPSK 16 QAM 16 QAM 64 QAM	1.4 MHz > 5 ≤ 5 > 5 ≤ 5	3.0 MHz > 4 ≤ 4 > 4 ≤ 4	5 MHz > 8 ≤ 8 > 8 ≤ 8	10 MHz > 12 ≤ 12 > 12 ≤ 12	bandwidth (15 MHz > 16 ≤ 16 > 16 ≤ 16	N _{RB}) 20 MHz > 18 ≤ 18 > 18 ≤ 18	MPR (dB) ≤ 1 ≤ 1 ≤ 2 ≤ 2
	64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 3 ≤ 5
LTE A-MPR	In the base station simulator configuration, Network Setting value is set to NS_01 to disable A-MPR during SAR testing and the LTE SAR tests was transmitting on all TTI frames (Maximum TTI)							
Spectrum plots for RB configuration	A properly configured base station simulator was used for the SAR and power measurement; therefore, spectrum plots for each RB allocation and offset configuration are not included in the SAR report.							
Power reduction applied to satisfy SAR compliance	Vas. when operating in Provimity sensors/receiver/hotspot detect mechanism, head/hody							
LTE Carrier Aggregation Combinations	Inter-Band and referred to secti	on 14.	•					•
LTE Carrier Aggregation Additional Information	This device inter-band with powers were ev This device s	two compo aluated pe	nent carrier r FCC Guid	ers in the	e uplink. S	AR Measur	ements ar	nd conducted

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			Transmi	ission (H, M	, L) char	nel numbers an	d frequencies	s in each	LTE bar	nd			
					<i>.</i> ,	LTE Band 2							
	Bandwidth	1.4 MHz	Bandwidt	h 3 MHz	Band	dwidth 5 MHz	Bandwidth 10 MHz		Hz Bandwidth 18		h 15 MHz Bandwid		th 20 MHz
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	, , ,	Ch. #	Freq. (MHz)	Ch.	.# Fre	eq. (MHz)	Ch. #	Freq. (MHz)
L	18607	1850.7	18615	1851.5	1862		18650	1855	186		1857.5	18700	1860
М	18900	1880	18900	1880	18900		18900	1880	189		1880	18900	1880
Н	19193	1909.3	19185	1908.5	1917		19150	1905	191	25	1902.5	19100	1900
	Bandwidth	1 4 MHz	Bandwidt	h 3 MHz	Band	LTE Band 4 dwidth 5 MHz	Bandwidth	10 MHz	Bar	ndwidth	15 MHz	Bandwid	th 20 MHz
		Freq.		Freq.				Freq.					Freq.
	Ch. #	(MHz)	Ch. #	(MHz)	Ch. #		Ch. #	(MHz)	Ch.		eq. (MHz)	Ch. #	(MHz)
L	19957	1710.7	19965	1711.5	1997		20000	1715	200		1717.5	20050	1720
M	20175	1732.5	20175	1732.5	2017		20175	1732.5	201		1732.5	20175	1732.5
Н	20393	1754.3	20385	1753.5	2037	5 1752.5 LTE Band 5	20350	1750	203	25	1747.5	20300	1745
	Band	dwidth 1.4 M	Hz	Ba	andwidth		Band	dwidth 5 M	1Hz		Bandy	vidth 10 N	ЛН
	Ch. #		. (MHz)	Ch. #	ariawiatii	Freq. (MHz)	Ch. #		Freq. (M	Hz)	Ch. #		Freq.
L	20407	·	24.7	20415		825.5	20425		826.5		20450)	(MHz) 829
М	20525		36.5	20525		836.5	20525		836.5		2052		836.5
Н	20643		48.3	20635		847.5	20625		846.5		20600		844
						LTE Band 7	20020						
	Bar	ndwidth 5 MF	lz	Ва	ndwidth '		Band	width 15 N	ИНz		Band	vidth 20 N	ИHz
	Ch. #	Freq	. (MHz)	Ch. #		Freq. (MHz)	Ch. #	ı	Freq. (M	Hz)	Ch. #	£	Freq. (MHz)
L	20775	25	02.5	20800		2505	20825	5	2507.	5	20850)	2510
M	21100	2	535	21100		2535	21100)	2535		21100)	2535
Н	21425	25	67.5	21400	1	2565	21375	5	2562.	5	21350)	2560
						LTE Band 12							
-		Bandwidth 1.4 MHz Ba		andwidth 3 MHz			dwidth 5 M	MHz			vidth 10 N	/IHZ Freq.	
	Ch. #	Freq	. (MHz)	Ch. #		Freq. (MHz)	Ch. #		Freq. (MHz)		Ch. #	ŧ	(MHz)
L	23017	69	99.7	23025		700.5	23035	5 701.		5	23060)	704
М	23095		07.5	23095		707.5		23095		07.5 23			707.5
Н	23173	7	15.3	23165		714.5	23155	5	713.5	5	23130)	711
			Danduridtk	E MILE		LTE Band 13			Dand	uidth 10	NALL-		
		Channel #	Bandwidth	I D IVITZ	Freq.(N	1Hz)	(Channel #		width 10		eq.(MHz)	
L		23205			779.		Glaine #					Cq.(IVII 12)	
M		23230			782		23230					782	
Н		23255			784.	784.5							
						LTE Band 17							
		Ob1 #	Bandwidth	1 5 MHz	F (1)	11 1-1		211 #		width 10		/NALI=\	
L		23755			Freq.(N 706.	<i>'</i>	Channel # 23780				Freq. (MHz) 709		
M		23790			710		23790				710		
Н		23825			713.		23800				710		
						LTE Band 25							
	Bandwidth		Bandwidt		Band	dwidth 5 MHz	Bandwidth	10 MHz	Baı	ndwidth	15 MHz	Bandwid	th 20 MHz
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MH	z) Ch.	.# Fre	eq. (MHz)	Ch. #	Freq. (MHz)
L	26047	1850.7	26055	1851.5	2606		26090	1855	261		1857.5	26140	1860
M	26340	1880	26340	1880	26340		26340	1880	263		1880	26340	1880
Н	26683	1914.3	26675	1913.5	2666		26640	1910	266	15	1907.5	26590	1905
	Bandwidth	1 4 MHz	Ban	ndwidth 3 MF	-lz	LTE Band 26 Bandwidtl	n 5 MHz	B ₂	ndwidth	10 MHz		andwidth	15 MHz
													Freq.
	Ch. #	Freq. (MHz			(MHz)	Ch. #	Freq. (MHz)			Freq. (N		Ch. #	(MHz)
L	26697	814.7	26705		5.5	26715	816.5	267		819		26765	821.5
M	26865	831.5	26865		31.5	26865	831.5	268				26865	831.5
Н	27033	848.3	27025	84	7.5	27015 LTE Band 38	846.5	269	90	844		26965	841.5
		Bandwidth 5	MHz		Bandwidt	h 10 MHz	_	andwidth 1	15 MHz		Ran	dwidth 20) MHz
										/N/LU=\			Freq.
	Ch.		Freq. (MHz)	Ch.		Freq. (MHz)	Ch.			(MHz)	Ch		(MHz)
L			2572.5	3780		2575	3782			77.5	378		2580
N.			2595	3800		2595	3800	-		95	380		2595
F	H 382	25	2617.5	3820	JU	2615 LTE Band 41	3817	75	261	2.5	38′	150	2610
						LTE Band 4 I							

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		Bandwidth	n 5 M	Hz	Ва	andwidth 1	0 MHz		Bandwidth 18	MHz	Ва	ndwidth 20	MHz
	Ch	. #	Fre	eq. (MHz)	Ch. #		Freq. (MHz)	C	h. #	Freq. (MHz)	С	h. #	Freq. (MHz)
L	396	375		2498.5	39700		2501	39	725	2503.5	39	9750	2506
LM	401	48		2545.8	40160		2547	40	173	2548.3	40)185	2549.5
М	406	320		2593	40620		2593		40620		40	0620	2593
HM	M 41093 2640.3 4						2639	41	068	2637.8	41	1055	2636.5
Н	415	65		2687.5	41540		2685	41	515	2682.5	41	1490	2680
							LTE Band 66						
	Bandwi	idth 1.4 M	Hz	Bandw	idth 3 MHz	Band	width 5 MHz	Bandwidth 10 MHz		Bandwidt	n 15 MHz	Bandwidth	n 20 MHz
			Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)		
Ĺ	131979 1710.7 131987 1711.5 13		131997	1712.5	132022	1715	132047	1717.5	132072	1720			
М	132322	1745	5	132322	1745	132322	1745	132322	1745	132322	1745	132322	1745
Н	H 132665 1779.3 132657 1778.5				1778.5	132647	1777.5	132622	1775	132597	1772.5	132572	1770

				LTE Band 42										
	Bandwidth 5 MHz Bandwidth 10 MHz Bandwidth 15 MHz Bandwidth 20 MHz													
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)						
L	42115	3452.5	42140	3455	42165	3457.5	42190	3460						
М	42590	3500	42590	3500	42590	3500	42590	3500						
Н	43065	3547.5	43040	3545	43015	3542.5	42990	3540						

<For LTE Overlap Bands Description>

1) LTE Bands BW

Band	1.4 MHz	3 MHz	5 MHz	10 MHz	15 MHz	20 MHz
LTE Band 4	Yes	Yes	Yes	Yes	Yes	Yes
LTE Band 66	Yes	Yes	Yes	Yes	Yes	Yes
LTE Band 2	Yes	Yes	Yes	Yes	Yes	Yes
LTE Band 25	Yes	Yes	Yes	Yes	Yes	Yes
LTE Band 12	Yes	Yes	Yes	Yes		
LTE Band 17			Yes	Yes		
LTE Band 38			Yes	Yes	Yes	Yes
LTE Band 41			Yes	Yes	Yes	Yes
LTE Band 26	Yes	Yes	Yes	Yes	Yes	
LTE Band 5	Yes	Yes	Yes	Yes		

2) LTE Bands tune up:

Band	Antenna	Default	Head DSI 2 Standalone	Body Worn DSI 3 Standalone	Sensor off DSI 4	Extremely DSI 6 Standalone	Hotspot DSI 7 Simultaneous
		Tune-up Limit	Tune-up Limit	Tune-up Limit	Tune-up Limit	Tune-up Limit	Tune-up Limit
LTE Band 4	Ant 0	24	24	19.5	24	22	18
LTE Band 66	Anto	24	24	19.5	24	22	18
LTE Band 4	A ± 4	24	18	19.5	24	21	16.5
LTE Band 66	Ant 4	24	18	19.5	24	21	16.5
LTE Band 2	A 4 O	24	24	18	24	21.5	16.5
LTE Band 25	Ant 0	24	24	18	24	21.5	16.5
LTE Band 2	Ant 4	24	18	20	24	21.5	17
LTE Band 25	Ant 4	24	18	20	24	21.5	17
LTE Band 12	Ant 0	24	24	24	24	24	24
LTE Band 17	Ant 0	24	24	24	24	24	24
LTE Band 12	Ant 4	24	24	24	24	24	24
LTE Band 17	Ant 4	24	24	24	24	24	24
LTE Band 38	Ant 1	24	24	21.5	24	21.5	21.5
LTE Band 41	Ant i	24	24	21.5	24	21.5	21.5
LTE Band 38	Ant 4	24	18	19	24	23	16.5
LTE Band 41	AIIL 4	24	18	19	24	23	16.5
LTE Band 26	Ant O	24	24	23.2	24	24	23.2
LTE Band 5	Ant 0	24	24	23.2	24	24	23.2
LTE Band 26	Ant 4	24	22.2	24	24	24	22.7
LTE Band 5	AIIL 4	24	22.2	24	24	24	22.7

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4.3 General 5G NR SAR Test and Reporting Considerations

	5G NR Information
	5G NR n2 : 1850 MHz ~ 1910 MHz
	5G NR n5: 824 MHz ~ 849 MHz
	5G NR n7: 2500 MHz ~ 2570 MHz
Operating Frequency Range of each 5G	5G NR n26 : 814 MHz ~ 849 MHz
NR transmission band	5G NR n66: 1710 MHz ~ 1780 MHz
	5G NR n38 : 2570 MHz ~ 2620 MHz
	5G NR n41 : 2496 MHz ~ 2690 MHz
	5G NR n78: 3450 MHz ~ 3550 MHz
Channel Bandwidth	The detail please refers to section 4.1 5GNR FR1 bands table.
SCS	FDD: SCS15KHz, TDD: SCS30KHz
uplink modulations used	DFT-s-OFDM: PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM
	CP-OFDM: QPSK / 16QAM / 64QAM / 256QAM
A-MPR (Additional MPR) disabled for SAR	Yes
Testing?	
LTE Anchor Bands for n2	LTE B5/7/66
LTE Anchor Bands for n5	LTE B2
LTE Anchor Bands for n7	LTE B2/4/5/66
LTE Anchor Bands for n38	LTE B2/4/66
LTE Anchor Bands for n41	LTE B2/4/26/66
LTE Anchor Bands for n66	LTE B2/5/7
LTE Anchor Bands for n78	LTE B2/4/5/7/38/41/26/66

		Transmis	sion (H, M, L) cl	nannel numbers a	and frequencies in e	each 5G NR band	d	
				NR Band	12			
	Bandwidth 5I	MHz	Bandwid	th 10MHz	Bandwidth	15MHz	Bandwidt	th 20MHz
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	370500	1852.5	371000	1855	371500	1857.5	372000	1860
М	376000	1880	376000	1880	376000	1880	376000	1880
Н	381500	1907.5	381000	1905	380500	1902.5	380000	1900
				NR Band	15			
	Bandwidth 5I	MHz	Bandwid	lth 10MHz	Bandwidth	15MHz	Bandwidt	th 20MHz
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	165300	826.5	165800 829		166300	831.5	166800	834
M	167300	836.5	167300	836.5	167300	836.5	167300	836.5
Н	169300	846.5	168800	844	168300	841.5	167800	839

	NR Band 7														
	Band 5M		Bandwidt	h 10MHz	Bandwidt	th 15MHz	Bandwidt	h 20MHz	Bandwidt	th 25MHz	Bandwidt	th 30MHz	Bandwidt	h 40MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	
L	500500	2502.5	501000	2505	501500	2507.5	502000	2510	502500	2512.5	503000	2515	504000	2520	
М	507000	2535	507000	2535	507000	2535	507000	2535	507000	2535	507000	2535	507000	2535	
Н	513500	2567.5	513000	2565	512500	2562.5	512000	2560	511500	2557.5	511000	2555	510000	2550	

				NR Ban	d 26										
	Bandwidth 5MHz Bandwidth 10MHz Bandwidth 15MHz Bandwidth 20MHz														
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)							
L	163300	816.5	163800	819	164300	821.5	164800	824							
М	166300	831.5	166300	831.5	166300	831.5	166300	831.5							
Н	169300	846.5	168800	844	168300	841.5	167800	839							

						NR Band 6	66					
	Band 5M			dwidth MHz	Band\ 15M			ndwidth DMHz		width ∕IHz		dwidth MHz
			Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	342500	1712.5	343000	1715	343500	1717.5	344000	1720	345000	1725	346000	1730
М	349000	1745	349000	1745	349000	1745	349000	1745	349000	1745	349000	1745
Н	355500	1777.5	355000	1775	354500	1772.5	354000	1770	353000	1765	352000	1760

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			NR Ba	nd 38										
	Bandwidth 20MHz Bandwidth 30MHz Bandwidth 40MHz													
	Ch. # Freq. (MHz) Ch. # Freq. (MHz) Ch. # Freq. (MHz)													
L	516000	2580	517002	2585.01	518004	2590.02								
M	519000	2595	519000	2595	519000	2595								
Н	522000	2610	520998	2604.99	519996	2599.98								

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	NR Band 41																	
		dwidth		dwidth		width		width		lwidth		dwidth		lwidth		lwidth		dwidth
	20	20MHz 30MHz 40MHz		501	ЛHz	601	60MHz		MHz	80MHz		901	ИHz	100	MHz			
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	501204	2506.02	502200	2511	503202	2516.01	504204	2521.02	505200	2526	506202	2531.01	507204	2536.02	508200	2541	509202	2546.01
Ν	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99	518598	2592.99
F	535998	2679.99	534996	2674.98	534000	2670	532998	2664.99	531996	2659.98	531000	2655	529998	2649.99	528996	2644.98	528000	2640

	NR Band 78																	
	Band	lwidth	Band	lwidth	Band	width	Band	width	Band	lwidth								
	20MHz 30MHz				401	MHz 5		0MHz		60MHz		ИHz	801	ИНz	901	ИHz	100MHz	
	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)	Ch. #	Freq. (MHz)
L	630668	3460.02	631000	3465	631334	3470.01	631668	3475.02	632000	3480	632334	3485.01	632668	3490.02	633000	3495		
M	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98	633332	3499.98
Н	636000	3540	635666	3534.99	635332	3529.98	635000	3525	634666	3519.99	634332	3514.98	634000	3510	633666	3504.99		

<For NR Overlap Bands Description>

1) NR Bands BW

Mode	Band	Duplex	SCS(KHz)	Bandwidths(BW)
	n5	FDD	15	5,10,15,20
SA	n26	FDD	15	5,10,15,20
SA	n38	TDD	30	20,30,40
	n41	TDD	30	20,30,40,50,60,70,80,90,100

2) NR Bands Tune up:

Band	Antenna	Default	Head DSI 2 Standalone	Body Worn DSI 3 Standalone	Sensor off DSI 4	Extremely DSI 6 Standalone	Hotspot DSI 7 Simultaneous
		Tune-up Limit	Tune-up Limit	Tune-up Limit	Tune-up Limit	Tune-up Limit	Tune-up Limit
FR1 n5	Ant 0	24	24	23.5	24	24	23.5
FR1 n26	Antu	24	24	23.5	24	24	23.5
FR1 n5	Ant 4	24	23	24	24	24	23
FR1 n26	Ant 4	24	23	24	24	24	23
FR1 n38	Ant 4	24	14.5	15.5	24	19.5	13
FR1 n41	AIIL 4	24	14.5	15.5	24	19.5	13

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5. Smart Transmit feature for RF Exposure compliance

The RF exposure limit is defined based on time-averaged RF exposure. The product implements Qualcomm Smart Transmit feature which controls the instantaneous transmitting power for WWAN transmitter to ensure the product in compliance with RF exposure limit over a defined time window, for SAR (transmit frequency ≤ 6GHz). To control and manage transmitting power in real time and to ensure at all times the time-averaged RF exposure is compliant to the regulation requirement.

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Note that WLAN/BT operations are not enabled with Smart Transmit.

This report describes the procedures for the SAR char generation, and the parameters obtained from SAR characterization (referred to as SAR char, respectively) will be used as input for Smart Transmit. SAR char will be entered via the Embedded File System (EFS) to enable the Smart Transmit Feature.

<Terminologies in this report>

P _{limit}	The time-averaged RF power which corresponds to SAR_design_target.
P _{max}	Maximum target power level
SAR_design_target:	The design target for SAR compliance. It should be less than regulatory SAR limit to account for all device design related uncertainty.
SAR char	P _{limit} for all the technologies/bands for all applicable DSI

<SAR Characterization>

SAR char must be generated to cover all radio configurations and usage scenarios that the wireless device supports for operating at 6 GHz or below. It will then be used as input for Smart Transmit to control and manage RF exposure for f < 6 GHz.

<SAR design target and uncertainty>

Item	Uncertainty dB (k=2)
Total uncertainty	1.5

To account for total uncertainty, SAR_design_target should be determined as: $SAR_design_target < SAR_{regulatory_limit} \times 10 \frac{-total\ uncertainty}{10}$

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The Smart Transmit algorithm maintains the time-averaged transmit power, in turn, time-averaged RF exposure of SAR design target, below the predefined time-averaged power limit, for each characterized technology and band.

Smart Transmit allows the device to transmit at higher power instantaneously, as high as Pmax, when needed, but enforces power limiting to maintain time-averaged transmit power to Plimit. Below table shows Plimit EFS settings and maximum tune up output power Pmax configured for this EUT for various transmit conditions (Device State Index DSI).

<Plimit for supported technologies and bands (Plimit in EFS file)>

		Head	Body-Worn	Sensor off	Extremity	Hotspot	
Band	Antenna	DSI2	DSI3	DSI4	DSI6	DSI7	Pmax*
GSM850**	Ant 0	27.1	22.0	24.5	24.5	22.0	24.5
GSM1900**	Ant 0	28.4	17.0	21.0	21.0	16.5	21.0
WCDMA V	Ant 0	26.8	21.2	23.0	23.0	21.2	23.0
WCDMA IV	Ant 0	32.1	18.0	23.0	21.0	16.5	23.0
WCDMA II	Ant 0	28.2	16.5	23.0	20.0	15.0	23.0
LTE Band 12/17	Ant 4	23.6	25.5	23.0	23.0	25.5	23.0
LTE Band 12/17	Ant 0	27.8	23.0	23.0	23.8	23.0	23.0
LTE Band 13	Ant 4	26.6	25.4	23.0	23.0	25.4	23.0
LTE Band 13	Ant 0	23.3	23.0	23.0	23.6	23.0	23.0
LTE Band 26/5	Ant 4	21.2	23.0	23.0	23.0	21.7	23.0
LTE Band 26/5	Ant 0	27.2	22.2	23.0	23.0	22.2	23.0
LTE Band 66/4	Ant 4	17.0	18.5	23.0	20.0	15.5	23.0
LTE Band 66/4	Ant 0	32.9	18.5	23.0	21.0	17.0	23.0
LTE Band 25/2	Ant 4	17.0	19.0	23.0	20.5	16.0	23.0
LTE Band 25/2	Ant 0	29.8	17.0	23.0	20.5	15.5	23.0
LTE Band 7	Ant 1	25.7	18.5	23.0	20.0	18.5	23.0
LTE Band 41/38 (PC3)**	Ant 4	15.0	16.0	21.0	20.0	13.5	21.0
LTE Band 41/38 (PC3)**	Ant 1	24.4	18.5	21.0	18.5	18.5	21.0
LTE Band 42	Ant 5	13.5	14.0	21.0	18.0	12.0	21.0
FR1 n26/5	Ant 4	22.0	23.4	23.0	23.0	22.0	23.0
FR1 n26/5	Ant 0	28.3	22.5	23.0	24.2	22.5	23.0
FR1 n66	Ant 4	17.0	19.0	23.0	20.5	16.0	23.0
FR1 n66	Ant 0	33.2	19.5	23.0	22.0	17.5	23.0
FR1 n2	Ant 4	16.5	18.5	23.0	20.0	15.5	23.0
FR1 n2	Ant 0	31.3	17.0	23.0	20.5	15.5	23.0
FR1 n7	Ant 4	13.5	15.0	23.0	18.5	11.5	23.0
FR1 n7	Ant 1	25.7	19.0	23.0	19.0	19.0	23.0
FR1 n41/38 (PC3)	Ant 4	13.5	14.5	23.0	18.5	12.0	23.0
FR1 n78 (PC3)	Ant 5	12.5	13.0	23.0	18.5	11.5	23.0
FR1 n78 (PC3)	Ant 2	27.7	11.5	15.0	15.0	10.0	22.5
FR1 n78 (PC3)	Ant 8	28.2	14.5	20.0	20.0	12.5	21.5
FR1 n78 (PC3)	Ant 1	25.3	16.5	21.5	18.0	16.5	21.5

Note:

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^{1) *}P_{max} is used for RF tune up procedure. The maximum allowed output power is equal to Pmax + 1.0 dB device uncertainty.

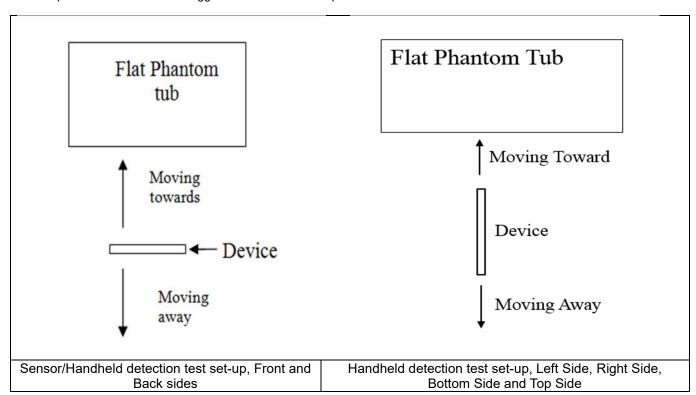
²⁾ All Plimit power levels entered in the Table correspond to average power levels after accounting for duty cycle in the case TDD modulation schemes (for e.g., GSM & LTE TDD & NR TDD).

³⁾ The max allowed output power is the Plimit + 1.0 dB device uncertainty, and if Plimit is higher than Pmax, the device output power will be Pmax instead.

6. Proximity Sensor Triggering Test

<Proximity Sensor Triggering Distance>:

- Proximity sensor triggering distance testing was performed according to the procedures outlined in KDB 616217 D04 section 6.2, and EUT moving further away from the flat phantom and EUT moving toward the flat phantom were both assessed and the tissue-equivalent medium for highest frequency (5850MHz) and lowest (835MHz) frequency was used for proximity sensor triggering testing.
- 2. Capacitive proximity sensors placed coincident with antenna elements at the top and bottom ends of the phone are utilized to determine when the device comes in proximity of the user's body at the front or back of the device.
- 3. The output power will reduce to body worn power level when top and bottom sensor pad be detected.
- 4. The sensors used to detect the proximity of the user's body at the front or back surface of the device use a detection threshold distance. The data shown in the sections below shows the distance(s). When front or back body worn condition is detected reduced power will be active.
- 5. The device employs proximity sensors also can detect the presence of the user's a finger or hand when handheld state at the front/back/top/bottom/left/right sides of the device. When front/back/top/bottom/left/right sides of handheld condition is detected reduced power will be active.
- 6. For verification of compliance of power reduction scheme, additional SAR testing with EUT transmitting at full RF power at a conservative trigger distance -1mm was performed:



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<P-Sensor>

	Proximi	ty Sensor Triggering Distan	ce (mm)		
Position	Fro	ont	Back		
Position	Moving towards	Moving away	Moving towards	Moving away	
Minimum	15	16	20	22	

< Handheld for ANT0>

			Proximity Sen	sor Triggering D	Distance (mm)			
	Fro	ont	Ва	ıck	Right	Side	Bottor	n Side
Position	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away
Minimum	11	12	17	18	8	9	18	19

< Handheld for ANT 1>

			Proximity Sen	sor Triggering [Distance (mm)			
	Fro	ont	Ва	ick	Left	Side	Bottor	n Side
Position	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away
Minimum	5	6	11	13	7	8	13	14

< Handheld for ANT 4>

			Proximity Sen	sor Triggering [Distance (mm)			
	Fro	ont	Ва	ıck	Left :	Side	Тор	Side
Position	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away
Minimum	10	12	14	15	7	8	18	19

< Handheld for ANT 5>

		Proximity S	ensor Triggering Di	stance (mm)		
Position	Front		Ва	ck	Top Side	
Position	Moving towards Moving away		Moving towards	Moving away	Moving towards	Moving away
Minimum	5	7	9	10	12	15

< Handheld for ANT 6>

			Proximity Sen	sor Triggering D	Distance (mm)			
	Fro	ont	Ва	ick	Right	Side	Тор	Side
Position	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away	Moving towards	Moving away
Minimum	7	9	11	12	6	8	12	15

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7. RF Exposure Limits

7.1 Uncontrolled Environment

Uncontrolled Environments are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure. The general population/uncontrolled exposure limits are applicable to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes persons in its vicinity.

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7.2 Controlled Environment

Controlled Environments are defined as locations where there is exposure that may be incurred by persons who are aware of the potential for exposure, (i.e. as a result of employment or occupation). In general, occupational/controlled exposure limits are applicable to situations in which persons are exposed as a consequence of their employment, who have been made fully aware of the potential for exposure and can exercise control over their exposure. The exposure category is also applicable when the exposure is of a transient nature due to incidental passage through a location where the exposure levels may be higher than the general population/uncontrolled limits, but the exposed person is fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

Limits for Occupational/Controlled Exposure (W/kg)

Whole-Body	Partial-Body	Hands, Wrists, Feet and Ankles
0.4	8.0	20.0

Limits for General Population/Uncontrolled Exposure (W/kg)

Whole-Body	Partial-Body	Hands, Wrists, Feet and Ankles
0.08	1.6	4.0

Whole-Body SAR is averaged over the entire body, partial-body SAR is averaged over any 1gram of tissue defined as a tissue volume in the shape of a cube. SAR for hands, wrists, feet and ankles is averaged over any 10 grams of tissue defined as a tissue volume in the shape of a cube.

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8. Specific Absorption Rate (SAR)

8.1 Introduction

SAR is related to the rate at which energy is absorbed per unit mass in an object exposed to a radio field. The SAR distribution in a biological body is complicated and is usually carried out by experimental techniques or numerical modeling. The standard recommends limits for two tiers of groups, occupational/controlled and general population/uncontrolled, based on a person's awareness and ability to exercise control over his or her exposure. In general, occupational/controlled exposure limits are higher than the limits for general population/uncontrolled.

8.2 SAR Definition

The SAR definition is the time derivative (rate) of the incremental energy (dW) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dv) of a given density (ρ). The equation description is as below:

$$SAR = \frac{d}{dt} \left(\frac{dW}{dm} \right) = \frac{d}{dt} \left(\frac{dW}{\rho dv} \right)$$

SAR is expressed in units of Watts per kilogram (W/kg)

$$SAR = \frac{\sigma |E|^2}{\rho}$$

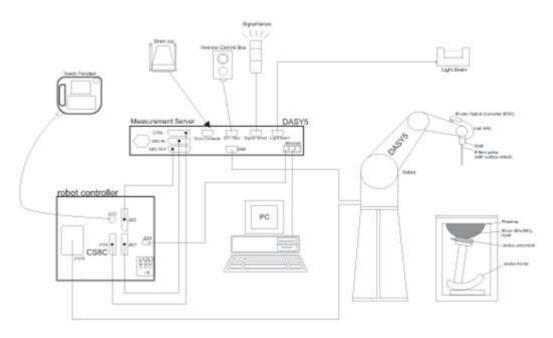
Where: σ is the conductivity of the tissue, ρ is the mass density of the tissue and E is the RMS electrical field strength.

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9. System Description and Setup

The DASY5 system used for performing compliance tests consists of the following items:



- A standard high precision 6-axis robot with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
- An isotropic Field probe optimized and calibrated for the targeted measurement.
- 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.
- The Electro-optical converter (EOC) performs the conversion from optical to electrical signals for the digital communication to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.
- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running WinXP or Win10 and the DASY5 software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps, etc.
- The phantom, the device holder and other accessories according to the targeted measurement.

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9.1 E-Field Probe

The SAR measurement is conducted with the dosimetric probe (manufactured by SPEAG). The probe is specially designed and calibrated for use in liquid with high permittivity. The dosimetric probe has special calibration in liquid at different frequency. This probe has a built in optical surface detection system to prevent from collision with phantom.

<ES3DV3 Probe>

Construction	Symmetric design with triangular core Interleaved sensors Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)
Frequency	10 MHz – 4 GHz; Linearity: ±0.2 dB (30 MHz – 4 GHz)
Directivity	±0.2 dB in TSL (rotation around probe axis)
	±0.3 dB in TSL (rotation normal to probe axis)
Dynamic Range	5 μW/g – >100 mW/g; Linearity: ±0.2 dB
Dimensions	Overall length: 337 mm (tip: 20 mm) Tip diameter: 3.9 mm (body: 12 mm) Distance from probe tip to dipole centers: 3.0 mm



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<EX3DV4 Probe>

Construction	Symmetric design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)
Frequency	10 MHz – >6 GHz Linearity: ±0.2 dB (30 MHz – 6 GHz)
Directivity	±0.3 dB in TSL (rotation around probe axis) ±0.5 dB in TSL (rotation normal to probe axis)
Dynamic Range	10 μW/g – >100 mW/g Linearity: ±0.2 dB (noise: typically <1 μW/g)
Dimensions	Overall length: 337 mm (tip: 20 mm) Tip diameter: 2.5 mm (body: 12 mm) Typical distance from probe tip to dipole centers: 1 mm



9.2 Data Acquisition Electronics (DAE)

The data acquisition electronics (DAE) consists of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converter and a command decoder and control logic unit. Transmission to the measurement server is accomplished through an optical downlink for data and status information as well as an optical uplink for commands and the clock.

The input impedance of the DAE is 200 MOhm; the inputs are symmetrical and floating. Common mode rejection is above 80 dB.



Photo of DAE

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9.3 Phantom

<SAM Twin Phantom>

- TOTAIN TWINT HANGOIN		
Shell Thickness	2 ± 0.2 mm; Center ear point: 6 ± 0.2 mm	Zan-
	Center ear point. 0 ± 0.2 min	
Filling Volume	Approx. 25 liters	
Dimensions	Length: 1000 mm; Width: 500 mm; Height:	
Dimensions	adjustable feet	S
Measurement Areas	Left Hand, Right Hand, Flat Phantom	

The bottom plate contains three pair of bolts for locking the device holder. The device holder positions are adjusted to the standard measurement positions in the three sections. A white cover is provided to tap the phantom during off-periods to prevent water evaporation and changes in the liquid parameters. On the phantom top, three reference markers are provided to identify the phantom position with respect to the robot.

<ELI Phantom>

·EEIT Halltonii		
Shell Thickness	2 ± 0.2 mm (sagging: <1%)	
Filling Volume	Approx. 30 liters	
Dimensions	Major ellipse axis: 600 mm Minor axis: 400 mm	

The ELI phantom is intended for compliance testing of handheld and body-mounted wireless devices or for evaluating transmitters operating at low frequencies. ELI is fully compatible with standard and all known tissue simulating liquids.

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9.4 Device Holder

<Mounting Device for Hand-Held Transmitter>

In combination with the Twin SAM V5.0/V5.0c or ELI phantoms, the Mounting Device for Hand-Held Transmitters enables rotation of the mounted transmitter device to specified spherical coordinates. At the heads, the rotation axis is at the ear opening. Transmitter devices can be easily and accurately positioned according to IEC 62209-1, IEEE 1528, FCC, or other specifications. The device holder can be locked for positioning at different phantom sections (left head, right head, flat). And upgrade kit to Mounting Device to enable easy mounting of wider devices like big smart-phones, e-books, small tablets, etc. It holds devices with width up to 140 mm.





Mounting Device for Hand-Held Transmitters

Mounting Device Adaptor for Wide-Phones

<Mounting Device for Laptops and other Body-Worn Transmitters>

The extension is lightweight and made of POM, acrylic glass and foam. It fits easily on the upper part of the mounting device in place of the phone positioned. The extension is fully compatible with the SAM Twin and ELI phantoms.



Mounting Device for Laptops

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10. Measurement Procedures

The measurement procedures are as follows:

<Conducted power measurement>

For WWAN power measurement, use base station simulator to configure EUT WWAN transmission in conducted connection with RF cable, at maximum power in each supported wireless interface and frequency

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- (b) Read the WWAN RF power level from the base station simulator.
- For WLAN/BT power measurement, use engineering software to configure EUT WLAN/BT continuously transmission, at maximum RF power in each supported wireless interface and frequency band
- (d) Connect EUT RF port through RF cable to the power meter, and measure WLAN/BT output power

<SAR measurement>

- Use base station simulator to configure EUT WWAN transmission in radiated connection, and engineering software to configure EUT WLAN/BT continuously transmission, at maximum RF power, in the highest power channel.
- Place the EUT in the positions as Appendix D demonstrates.
- Set scan area, grid size and other setting on the DASY software.
- Measure SAR results for the highest power channel on each testing position.
- Find out the largest SAR result on these testing positions of each band (e)
- Measure SAR results for other channels in worst SAR testing position if the reported SAR of highest power channel is larger than 0.8 W/kg

According to the test standard, the recommended procedure for assessing the peak spatial-average SAR value consists of the following steps:

- Power reference measurement
- Area scan (b)
- Zoom scan (c)
- Power drift measurement

10.1 Spatial Peak SAR Evaluation

The procedure for spatial peak SAR evaluation has been implemented according to the test standard. It can be conducted for 1g and 10g, as well as for user-specific masses. The DASY software includes all numerical procedures necessary to evaluate the spatial peak SAR value.

The base for the evaluation is a "cube" measurement. The measured volume must include the 1g and 10g cubes with the highest averaged SAR values. For that purpose, the center of the measured volume is aligned to the interpolated peak SAR value of a previously performed area scan.

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 1g and 10g cubes. The algorithm to find the cube with highest averaged SAR is divided into the following stages:

- Extraction of the measured data (grid and values) from the Zoom Scan
- Calculation of the SAR value at every measurement point based on all stored data (A/D values and (b) measurement parameters)
- Generation of a high-resolution mesh within the measured volume
- Interpolation of all measured values form the measurement grid to the high-resolution grid (d)
- Extrapolation of the entire 3-D field distribution to the phantom surface over the distance from sensor to (e)
- Calculation of the averaged SAR within masses of 1g and 10g

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10.2 Power Reference Measurement

The Power Reference Measurement and Power Drift Measurements are for monitoring the power drift of the device under test in the batch process. The minimum distance of probe sensors to surface determines the closest measurement point to phantom surface. This distance cannot be smaller than the distance of sensor calibration points to probe tip as defined in the probe properties.

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10.3 Area Scan

The area scan is used as a fast scan in two dimensions to find the area of high field values, before doing a fine measurement around the hot spot. The sophisticated interpolation routines implemented in DASY software can find the maximum found in the scanned area, within a range of the global maximum. The range (in dB0 is specified in the standards for compliance testing. For example, a 2 dB range is required in IEEE standard 1528 and IEC 62209 standards, whereby 3 dB is a requirement when compliance is assessed in accordance with the ARIB standard (Japan), if only one zoom scan follows the area scan, then only the absolute maximum will be taken as reference. For cases where multiple maximums are detected, the number of zoom scans has to be increased accordingly.

Area scan parameters extracted from FCC KDB 865664 D01v01r04 SAR measurement 100 MHz to 6 GHz.

	≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface	5 ± 1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5 \text{ mm}$
Maximum probe angle from probe axis to phantom surface normal at the measurement location	30° ± 1°	20° ± 1°
	\leq 2 GHz: \leq 15 mm 2 – 3 GHz: \leq 12 mm	$3 - 4 \text{ GHz:} \le 12 \text{ mm}$ $4 - 6 \text{ GHz:} \le 10 \text{ mm}$
Maximum area scan spatial resolution: Δx_{Area} , Δy_{Area}	When the x or y dimension of measurement plane orientation the measurement resolution of x or y dimension of the test of measurement point on the test	on, is smaller than the above, must be \leq the corresponding levice with at least one

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10.4 Zoom Scan

Zoom scans are used assess the peak spatial SAR values within a cubic averaging volume containing 1 gram and 10 gram of simulated tissue. The zoom scan measures points (refer to table below) within a cube shoes base faces are centered on the maxima found in a preceding area scan job within the same procedure. When the measurement is done, the zoom scan evaluates the averaged SAR for 1 gram and 10 gram and displays these values next to the job's label.

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Zoom scan parameters extracted from FCC KDB 865664 D01v01r04 SAR measurement 100 MHz to 6 GHz.

			\leq 3 GHz	> 3 GHz
Maximum zoom scan s	spatial reso	olution: Δx _{Zoom} , Δy _{Zoom}	\leq 2 GHz: \leq 8 mm 2 - 3 GHz: \leq 5 mm*	$3 - 4 \text{ GHz: } \le 5 \text{ mm}^*$ $4 - 6 \text{ GHz: } \le 4 \text{ mm}^*$
	uniform	grid: Δz _{Zoom} (n)	≤ 5 mm	$3 - 4 \text{ GHz}$: $\leq 4 \text{ mm}$ $4 - 5 \text{ GHz}$: $\leq 3 \text{ mm}$ $5 - 6 \text{ GHz}$: $\leq 2 \text{ mm}$
Maximum zoom scan spatial resolution, normal to phantom surface	graded	Δz _{Zoom} (1): between 1 st two points closest to phantom surface	≤ 4 mm 4 − 5 G	$3 - 4 \text{ GHz}$: $\leq 3 \text{ mm}$ $4 - 5 \text{ GHz}$: $\leq 2.5 \text{ mm}$ $5 - 6 \text{ GHz}$: $\leq 2 \text{ mm}$
	grid	Δz _{Zoom} (n>1): between subsequent points	$\leq 1.5 \cdot \Delta x$	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm
Minimum zoom scan volume	x, y, z		≥ 30 mm	$3 - 4 \text{ GHz:} \ge 28 \text{ mm}$ $4 - 5 \text{ GHz:} \ge 25 \text{ mm}$ $5 - 6 \text{ GHz:} \ge 22 \text{ mm}$

Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.

10.5 Volume Scan Procedures

The volume scan is used for assess overlapping SAR distributions for antennas transmitting in different frequency bands. It is equivalent to an oversized zoom scan used in standalone measurements. The measurement volume will be used to enclose all the simultaneous transmitting antennas. For antennas transmitting simultaneously in different frequency bands, the volume scan is measured separately in each frequency band. In order to sum correctly to compute the 1g aggregate SAR, the EUT remain in the same test position for all measurements and all volume scan use the same spatial resolution and grid spacing. When all volume scan were completed, the software, SEMCAD postprocessor can combine and subsequently superpose these measurement data to calculating the multiband SAR.

10.6 Power Drift Monitoring

All SAR testing is under the EUT install full charged battery and transmit maximum output power. In DASY measurement software, the power reference measurement and power drift measurement procedures are used for monitoring the power drift of EUT during SAR test. Both these procedures measure the field at a specified reference position before and after the SAR testing. The software will calculate the field difference in dB. If the power drifts more than 5%, the SAR will be retested.

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When zoom scan is required and the reported SAR from the area scan based 1-g SAR estimation procedures of KDB 447498 is $\leq 1.4 \text{ W/kg}, \leq 8 \text{ mm}, \leq 7 \text{ mm}$ and $\leq 5 \text{ mm}$ zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.

11. Test Equipment List

			0 : 11	Calib	ration	
Manufacturer	Name of Equipment	Type/Model	Serial Number	Last Cal.	Due Date	
SPEAG	750MHz System Validation Kit	D750V3	1099	Dec. 15, 2021	Dec. 14, 2024	
SPEAG	835MHz System Validation Kit	D835V2	4d162	Dec. 17, 2021	Dec. 16, 2024	
SPEAG	1750MHz System Validation Kit	D1750V2	1137	Oct. 19, 2021	Oct. 18, 2024	
SPEAG	1900MHz System Validation Kit	D1900V2	5d182	Dec. 20, 2021	Dec. 19, 2024	
SPEAG	2450MHz System Validation Kit	D2450V2	924	Sep. 02, 2020	Aug. 31, 2023	
SPEAG	2600MHz System Validation Kit	D2600V2	1070	Dec. 20, 2021	Dec. 19, 2024	
SPEAG	3500MHz System Validation Kit	D3500V2	1037	Nov. 25, 2020	Nov. 23, 2023	
SPEAG	5000MHz System Validation Kit	D5GHzV2	1341	Dec. 13, 2021	Dec. 12, 2024	
SPEAG	Data Acquisition Electronics	DAE3	360	Dec. 28, 2022	Dec. 27, 2023	
SPEAG	Data Acquisition Electronics	DAE3	914	Jul. 14, 2022	Jul. 13, 2023	
SPEAG	Data Acquisition Electronics	DAE4	1437	Nov. 23, 2022	Nov. 22, 2023	
SPEAG	Dosimetric E-Field Probe	ES3DV3	3191	Feb. 17, 2023	Feb. 16, 2024	
SPEAG	Dosimetric E-Field Probe	EX3DV4	7577	Nov. 23, 2022	Nov. 22, 2023 NCR	
SPEAG	SAM Twin Phantom	QD 000 P40 CD	1795	NCR		
SPEAG	SAM Twin Phantom	QD 000 P40 CB	TP-1500	NCR	NCR	
SPEAG	SAM Twin Phantom	QD 000 P41 AA	2035	NCR	NCR	
SPEAG	Phone Positioner	N/A	N/A	NCR	NCR	
Anritsu	Radio communication analyzer	MT8821C	6272416837	Apr. 03, 2023	Apr. 02, 2024	
Agilent	Wireless Communication Test Set	E5515C	MY50267224	Jul. 06, 2023	Jul. 05, 2024	
Keysight	Network Analyzer	E5071C	MY46523671	Oct. 17, 2022	Oct. 16, 2023	
Speag	Dielectric Assessment KIT	DAK-3.5	1071	Feb. 20, 2023	Feb. 19, 2024	
Agilent	Signal Generator	N5181A	MY50145381	Dec. 27, 2022	Dec. 26, 2023	
Anritsu	Power Senor	MA2411B	1306099	Oct. 17, 2022	Oct. 16, 2023	
Anritsu	Power Meter	ML2495A	1349001	Oct. 17, 2022	Oct. 16, 2023	
R&S	CBT BLUETOOTH TESTER	CBT	100963	Dec. 27, 2022	Dec. 26, 2023	
R&S	Spectrum Analyzer	FSP7	100818	Jul. 07, 2022	Jul. 06, 2023	
R&S	Spectrum Analyzer	FSP7	100818	Jul. 05, 2023	Jul. 04, 2024	
TES	Hygrometer	1310	200505600	Jul. 12, 2022	Jul. 11, 2023	
Anymetre	Thermo-Hygrometer	JR593	2015030904	Jul. 12, 2022	Jul. 11, 2023	
AR	Amplifier	5S1G4	0333096	No	te 1	
Mini-Circuits	Amplifier	ZVE-3W-83+	599201528	Note 1		
Mini-Circuits	Amplifier	ZVA-183W-S+	726202215	Note 1		
SPEAG	Device Holder	N/A	N/A	No	te 1	
ARRA	Power Divider	A3200-2	N/A	No	te 1	
ET Industries	Dual Directional Coupler	C-058-10	N/A	No	te 1	
Weinschel	Attenuator 1	3M-10	N/A	No	te 1	
Weinschel	Attenuator 2	3M-20	N/A	No	te 1	

Note:

- 1. Prior to system verification and validation, the path loss from the signal generator to the system check source and the power meter, which includes the amplifier, cable, attenuator and directional coupler, was measured by the network analyzer. The reading of the power meter was offset by the path loss difference between the path to the power meter and the path to the system check source to monitor the actual power level fed to the system check
- 2. Referring to KDB 865664 D01v01r04, the dipole calibration interval can be extended to 3 years with justification. The dipoles are also not physically damaged, or repaired during the interval.
- 3. The justification data of dipole can be found in appendix C. The return loss is < -20dB, within 20% of prior calibration, the impedance is within 5 ohm of prior calibration.

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12. System Verification

12.1 Tissue Simulating Liquids

For the measurement of the field distribution inside the SAM phantom with DASY, the phantom must be filled with around 25 liters of homogeneous body tissue simulating liquid. For head SAR testing, the liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15 cm, which is shown in Fig. 11.1. For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15 cm, which is shown in Fig. 11.2.



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Fig 11.1 Photo of Liquid Height for Head SAR

Fig 11.2 Photo of Liquid Height for Body SAR

12.2 Tissue Verification

The following tissue formulations are provided for reference only as some of the parameters have not been thoroughly verified. The composition of ingredients may be modified accordingly to achieve the desired target tissue parameters required for routine SAR evaluation.

Frequency (MHz)	Water (%)	Sugar (%)	Cellulose (%)	Salt (%)	Preventol (%)	DGBE (%)	Conductivity (σ)	Permittivity (εr)
For Head								
750	41.1	57.0	0.2	1.4	0.2	0	0.89	41.9
835	40.3	57.9	0.2	1.4	0.2	0	0.90	41.5
1800, 1900, 2000	55.2	0	0	0.3	0	44.5	1.40	40.0
2450	55.0	0	0	0	0	45.0	1.80	39.2
2600	54.8	0	0	0.1	0	45.1	1.96	39.0

Simulating Liquid for 5GHz, Manufactured by SPEAG

Ingredients	(% by weight)
Water	64~78%
Mineral oil	11~18%
Emulsifiers	9~15%
Additives and Salt	2~3%

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<Tissue Dielectric Parameter Check Results>

-110000	The Dielectric Larameter Officer Results										
Frequency (MHz)	Tissue Type	Liquid Temp. (℃)	Conductivity (σ)	Permittivity (ε _r)	Conductivity Target (σ)	Permittivity Target (ε _r)	Delta (σ) (%)	Delta (ε _r) (%)	Limit (%)	Date	
750	Head	22.3	0.920	41.675	0.89	41.90	3.37	-0.54	±5	2023/6/14	
750	Head	22.3	0.883	40.810	0.89	41.90	-0.79	-2.60	±5	2023/6/29	
835	Head	22.4	0.940	41.276	0.90	41.50	4.44	-0.54	±5	2023/6/15	
835	Head	22.2	0.938	42.586	0.90	41.50	4.22	2.62	±5	2023/6/30	
1750	Head	22.4	1.356	38.633	1.37	40.10	-1.02	-3.66	±5	2023/6/17	
1750	Head	22.5	1.341	38.638	1.37	40.10	-2.12	-3.65	±5	2023/7/1	
1900	Head	22.3	1.398	38.705	1.40	40.00	-0.14	-3.24	±5	2023/6/18	
1900	Head	22.5	1.412	38.427	1.40	40.00	0.86	-3.93	±5	2023/7/2	
2450	Head	22.6	1.850	38.855	1.80	39.20	2.78	-0.88	±5	2023/6/19	
2450	Head	22.4	1.776	38.220	1.80	39.20	-1.33	-2.50	±5	2023/7/4	
2600	Head	22.2	1.904	38.499	1.96	39.00	-2.86	-1.28	±5	2023/6/20	
2600	Head	22.4	2.041	38.178	1.96	39.00	4.13	-2.11	±5	2023/7/5	
3500	Head	22.5	2.934	39.309	2.91	37.90	0.82	3.72	±5	2023/6/25	
3500	Head	22.6	2.933	39.326	2.91	37.90	0.79	3.76	±5	2023/7/7	
5250	Head	22.2	4.597	36.617	4.71	35.95	-2.40	1.86	±5	2023/6/26	
5250	Head	22.5	4.701	36.243	4.71	35.95	-0.19	0.82	±5	2023/7/8	
5600	Head	22.7	5.080	35.374	5.07	35.50	0.20	-0.35	±5	2023/6/27	
5600	Head	22.3	5.002	36.115	5.07	35.50	-1.34	1.73	±5	2023/7/9	
5750	Head	22.6	5.164	35.867	5.22	35.35	-1.07	1.46	±5	2023/6/28	
5750	Head	22.3	5.173	35.826	5.22	35.35	-0.90	1.35	±5	2023/7/10	

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12.3 System Performance Check Results

Comparing to the original SAR value provided by SPEAG, the verification data should be within its specification of 10 %. Below table shows the target SAR and measured SAR after normalized to 1W input power. The table below indicates the system performance check can meet the variation criterion and the plots can be referred to Appendix A of this report.

<1g SAR>

Date	Frequency (MHz)	Tissue Type	Input Power (mW)	Dipole S/N	Probe S/N	DAE S/N	Measured 1g SAR (W/kg)	Targeted 1g SAR (W/kg)	Normalized 1g SAR (W/kg)	Deviation (%)
2023/6/14	750	Head	250	1099	3191	1437	2.250	8.540	9	5.39
2023/6/29	750	Head	250	1099	3191	1437	2.070	8.540	8.28	-3.04
2023/6/15	835	Head	250	4d162	3191	1437	2.530	9.640	10.12	4.98
2023/6/30	835	Head	250	4d162	3191	1437	2.460	9.640	9.84	2.07
2023/6/17	1750	Head	250	1137	3191	1437	9.230	36.500	36.92	1.15
2023/7/1	1750	Head	250	1137	3191	1437	8.890	36.500	35.56	-2.58
2023/6/18	1900	Head	250	5d182	3191	1437	10.200	39.600	40.8	3.03
2023/7/2	1900	Head	250	5d182	3191	1437	9.570	39.600	38.28	-3.33
2023/6/19	2450	Head	250	924	3191	1437	12.100	51.400	48.4	-5.84
2023/7/4	2450	Head	250	924	3191	1437	12.300	51.400	49.2	-4.28
2023/6/20	2600	Head	250	1070	3191	1437	14.400	56.200	57.6	2.49
2023/7/5	2600	Head	250	1070	3191	1437	13.800	56.200	55.2	-1.78
2023/6/25	3500	Head	100	1037	7577	360	6.490	68.000	64.9	-4.56
2023/7/7	3500	Head	100	1037	7577	360	7.040	68.000	70.4	3.53
2023/6/26	5250	Head	100	1341	7577	914	8.060	80.700	80.6	-0.12
2023/7/8	5250	Head	100	1341	7577	914	7.680	80.700	76.8	-4.83
2023/6/27	5600	Head	100	1341	7577	914	9.070	84.500	90.7	7.34
2023/7/9	5600	Head	100	1341	7577	914	7.820	84.500	78.2	-7.46
2023/6/28	5750	Head	100	1341	7577	914	8.590	80.600	85.9	6.58
2023/7/10	5750	Head	100	1341	7577	914	7.420	80.600	74.2	-7.94

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<10a SAR>	

Date	Frequency (MHz)	Tissue Type	Input Power (mW)	Dipole S/N	Probe S/N	DAE S/N	Measured 10g SAR (W/kg)	Targeted 10g SAR (W/kg)	Normalized 10g SAR (W/kg)	Deviation (%)
2023/6/14	750	Head	250	1099	3191	1437	1.500	5.650	6	6.19
2023/6/29	750	Head	250	1099	3191	1437	1.380	5.650	5.52	-2.30
2023/6/15	835	Head	250	4d162	3191	1437	1.640	6.260	6.56	4.79
2023/6/30	835	Head	250	4d162	3191	1437	1.620	6.260	6.48	3.51
2023/6/17	1750	Head	250	1137	3191	1437	4.980	19.200	19.92	3.75
2023/7/1	1750	Head	250	1137	3191	1437	4.710	19.200	18.84	-1.88
2023/6/18	1900	Head	250	5d182	3191	1437	5.360	20.200	21.44	6.14
2023/7/2	1900	Head	250	5d182	3191	1437	4.970	20.200	19.88	-1.58
2023/6/19	2450	Head	250	924	3191	1437	6.420	24.000	25.68	7.00
2023/7/4	2450	Head	250	924	3191	1437	5.720	24.000	22.88	-4.67
2023/6/20	2600	Head	250	1070	3191	1437	6.500	24.600	26	5.69
2023/7/5	2600	Head	250	1070	3191	1437	6.110	24.600	24.44	-0.65
2023/6/25	3500	Head	100	1037	7577	360	2.490	25.400	24.9	-1.97
2023/7/7	3500	Head	100	1037	7577	360	2.640	25.400	26.4	3.94
2023/6/26	5250	Head	100	1341	7577	914	2.270	23.100	22.7	-1.73
2023/7/8	5250	Head	100	1341	7577	914	2.150	23.100	21.5	-6.93
2023/6/27	5600	Head	100	1341	7577	914	2.580	24.000	25.8	7.50
2023/7/9	5600	Head	100	1341	7577	914	2.230	24.000	22.3	-7.08
2023/6/28	5750	Head	100	1341	7577	914	2.390	22.700	23.9	5.29
2023/7/10	5750	Head	100	1341	7577	914	2.100	22.700	21	-7.49

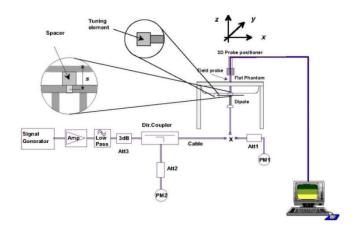


Fig 11.3.1 System Performance Check Setup



Fig 11.3.2 Setup Photo

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13. RF Exposure Positions

13.1 Ear and handset reference point

Figure 12.1.1 shows the front, back, and side views of the SAM phantom. The center-of-mouth reference point is labeled "M," the left ear reference point (ERP) is marked "LE," and the right ERP is marked "RE." Each ERP is 15 mm along the B-M (back-mouth) line behind the entrance-to-ear-canal (EEC) point, as shown in Figure 12.1.2 The Reference Plane is defined as passing through the two ear reference points and point M. The line N-F (neck-front), also called the reference pivoting line, is normal to the Reference Plane and perpendicular to both a line passing through RE and LE and the B-M line (see Figure 12.1.3). Both N-F and B-M lines should be marked on the exterior of the phantom shell to facilitate handset positioning. Posterior to the N-F line the ear shape is a flat surface with 6 mm thickness at each ERP, and forward of the N-F line the ear is truncated, as illustrated in Figure 12.1.2. The ear truncation is introduced to preclude the ear lobe from interfering with handset tilt, which could lead to unstable positioning at the cheek.

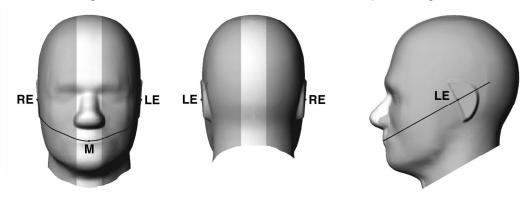
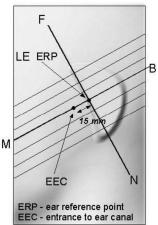
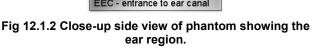
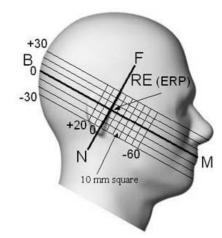


Fig 12.1.1 Front, back, and side views of SAM twin phantom







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Fig 12.1.3 Side view of the phantom showing relevant markings and seven cross-sectional plane locations

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13.2 Definition of the cheek position

- Ready the handset for talk operation, if necessary. For example, for handsets with a cover piece (flip cover), open the cover. If the handset can transmit with the cover closed, both configurations must be tested.
- Define two imaginary lines on the handset—the vertical centerline and the horizontal line. The vertical centerline passes through two points on the front side of the handset—the midpoint of the width wt of the handset at the level of the acoustic output (point A in Figure 12.2.1 and Figure 12.2.2), and the midpoint of the width wb of the bottom of the handset (point B). The horizontal line is perpendicular to the vertical centerline and passes through the center of the acoustic output (see Figure 12.2.1). The two lines intersect at point A. Note that for many handsets, point A coincides with the center of the acoustic output; however, the acoustic output may be located elsewhere on the horizontal line. Also note that the vertical centerline is not necessarily parallel to the front face of the handset (see Figure 12.2.2), especially for clamshell handsets, handsets with flip covers, and other irregularly-shaped handsets.
- Position the handset close to the surface of the phantom such that point A is on the (virtual) extension of the line passing through points RE and LE on the phantom (see Figure 12.2.3), such that the plane defined by the vertical centerline and the horizontal line of the handset is approximately parallel to the sagittal plane of the phantom.
- Translate the handset towards the phantom along the line passing through RE and LE until handset point A touches the pinna at the ERP.
- While maintaining the handset in this plane, rotate it around the LE-RE line until the vertical centerline is in the plane normal to the plane containing B-M and N-F lines, i.e., the Reference Plane.
- Rotate the handset around the vertical centerline until the handset (horizontal line) is parallel to the N-F line.
- 7. While maintaining the vertical centerline in the Reference Plane, keeping point A on the line passing through RE and LE, and maintaining the handset contact with the pinna, rotate the handset about the N-F line until any point on the handset is in contact with a phantom point below the pinna on the cheek. See Figure 12.2.3. The actual rotation angles should be documented in the test report.

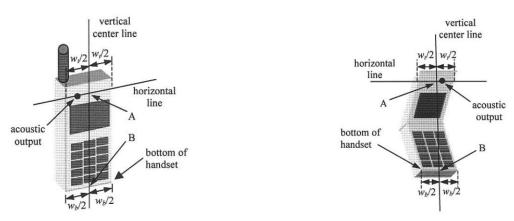


Fig 12.2.1 Handset vertical and horizontal reference lines—"fixed case

Fig 12.2.2 Handset vertical and horizontal reference lines-"clam-shell case"

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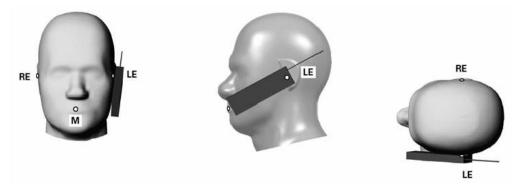


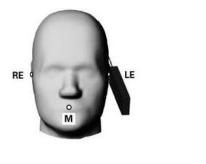
Fig 12.2.3 cheek or touch position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which establish the Reference Plane for handset positioning, are indicated.

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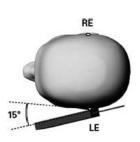
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13.3 Definition of the tilt position

- 1. Ready the handset for talk operation, if necessary. For example, for handsets with a cover piece (flip cover), open the cover. If the handset can transmit with the cover closed, both configurations must be tested.
- 2. While maintaining the orientation of the handset, move the handset away from the pinna along the line passing through RE and LE far enough to allow a rotation of the handset away from the cheek by 15°.
- 3. Rotate the handset around the horizontal line by 15°.
- 4. While maintaining the orientation of the handset, move the handset towards the phantom on the line passing through RE and LE until any part of the handset touches the ear. The tilt position is obtained when the contact point is on the pinna. See Figure 12.3.1. If contact occurs at any location other than the pinna, e.g., the antenna at the back of the phantom head, the angle of the handset should be reduced. In this case, the tilt position is obtained if any point on the handset is in contact with the pinna and a second point







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Fig 12.3.1 Tilt position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which define the Reference Plane for handset positioning, are indicated.

13.4 Body Worn Accessory

Body-worn operating configurations are tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in a normal use configuration (see Figure 11.4). Per KDB648474 D04v01r03, body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in FCC KDB 447498 D01v06 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation distance is greater than or equal to that required for hotspot mode, when applicable. When the reported SAR for body-worn accessory, measured without a headset connected to the handset is > 1.2 W/kg, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a handset attached to the handset.

Accessories for body-worn operation configurations are divided into two categories: those that do not contain metallic components and those that do contain metallic components. When multiple accessories that do not contain metallic components are supplied with the device, the device is tested with only the accessory that dictates the closest spacing to the body. Then multiple accessories that contain metallic components are test with the device with each accessory. If multiple accessories share an identical metallic component (i.e. the same metallic belt-chip used with different holsters with no other metallic components) only the accessory that dictates the closest spacing to the body is tested.

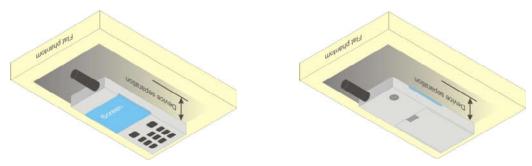


Fig 12.4 Body Worn Position

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13.5 Product Specific 10g SAR Exposure

For smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm, that can provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets and support voice calls next to the ear, According to KDB648474 D04v01r03, the following phablet procedures should be applied to evaluate SAR compliance for each applicable wireless modes and frequency band. Devices marketed as phablets, regardless of form factors and operating characteristics must be tested as a phablet to determine SAR compliance

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- 1. The normally required head and body-worn accessory SAR test procedures for handsets, including hotspot mode, must be applied.
- 2. The UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna located at ≤ 25 mm from that surface or edge, in direct contact with a flat phantom, for 10-g extremity SAR according to the body-equivalent tissue dielectric parameters in KDB 865664 to address interactive hand use exposure conditions.6 The UMPC mini-tablet 1-g SAR at 5 mm is not required. When hotspot mode applies, 10-g extremity SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg.

13.6 Wireless Router

Some battery-operated handsets have the capability to transmit and receive user through simultaneous transmission of WIFI simultaneously with a separate licensed transmitter. The FCC has provided guidance in FCC KDB Publication 941225 D06 v02r01 where SAR test considerations for handsets (L x W ≥ 9 cm x 5 cm) are based on a composite test separation distance of 10mm from the front, back and edges of the device containing transmitting antennas within 2.5cm of their edges, determined form general mixed use conditions for this type of devices. Since the hotspot SAR results may overlap with the body-worn accessory SAR requirements, the more conservative configurations can be considered, thus excluding some body-worn accessory SAR tests.

When the user enables the personal wireless router functions for the handset, actual operations include simultaneous transmission of both the WIFI transmitter and another licensed transmitter. Both transmitters often do not transmit at the same transmitting frequency and thus cannot be evaluated for SAR under actual use conditions due to the limitations of the SAR assessment probes. Therefore, SAR must be evaluated for each frequency transmission and mode separately and spatially summed with the WIFI transmitter according to FCC KDB Publication 447498 D01v06 publication procedures. The "Portable Hotspot" feature on the handset was NOT activated during SAR assessments, to ensure the SAR measurements were evaluated for a single transmission frequency RF signal at a time.

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14. Conducted RF Output Power (Unit: dBm)

The detailed conducted power table can refer to Appendix E.

<GSM Conducted Power>

1. Per KDB 447498 D01v06, the maximum output power channel is used for SAR testing and for further SAR test reduction.

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- Per KDB 941225 D01v03r01, for SAR test reduction for GSM / GPRS / EDGE modes is determined by the source-based time-averaged output power including tune-up tolerance. The mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested.
- Other configurations of GSM / GPRS / EDGE are considered as secondary modes. The 3G SAR test reduction
 procedure is applied, when the maximum output power and tune-up tolerance specified for production units in a
 secondary mode is ≤ ¼ dB higher than the primary mode, SAR measurement is not required for the secondary
 mode.

< WCDMA Conducted Power>

- 1. The following tests were conducted according to the test requirements outlines in 3GPP TS 34.121 specification.
- 2. The procedures in KDB 941225 D01v03r01 are applied for 3GPP Rel. 6 HSPA to configure the device in the required sub-test mode(s) to determine SAR test exclusion.
- For HSPA+ devices supporting 16 QAM in the uplink, power measurements procedure is according to the configurations in Table C.11.1.4 of 3GPP TS 34.121-1.
- 4. For DC-HSDPA, the device was configured according to the H-Set 12, Fixed Reference Channel (FRC) configuration in Table C.8.1.12 of 3GPP TS 34.121-1, with the primary and the secondary serving HS-DSCH Cell enabled during the power measurement.

A summary of these settings are illustrated below:

HSDPA Setup Configuration:

- a. The EUT was connected to Base Station Agilent E5515C referred to the Setup Configuration.
- b. The RF path losses were compensated into the measurements.
- c. A call was established between EUT and Base Station with following setting:
 - i. Set Gain Factors (β_c and β_d) and parameters were set according to each
 - ii. Specific sub-test in the following table, C10.1.4, quoted from the TS 34.121
 - iii. Set RMC 12.2Kbps + HSDPA mode.
 - iv. Set Cell Power = -86 dBm
 - v. Set HS-DSCH Configuration Type to FRC (H-set 1, QPSK)
 - vi. Select HSDPA Uplink Parameters
 - vii. Set Delta ACK, Delta NACK and Delta CQI = 8
 - viii. Set Ack-Nack Repetition Factor to 3
 - ix. Set CQI Feedback Cycle (k) to 4 ms
 - x. Set CQI Repetition Factor to 2
 - xi. Power Ctrl Mode = All Up bits
- d. The transmitted maximum output power was recorded.

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Table C.10.1.4: β values for transmitter characteristics tests with HS-DPCCH

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Sub-test	βc	βd	β _d (SF)	β₀/βа	βнs (Note1, Note 2)	CM (dB) (Note 3)	MPR (dB) (Note 3)
1	2/15	15/15	64	2/15	4/15	0.0	0.0
2	12/15 (Note 4)	15/15 (Note 4)	64	12/15 (Note 4)	24/15	1.0	0.0
3	15/15	8/15	64	15/8	30/15	1.5	0.5
4	15/15	4/15	64	15/4	30/15	1.5	0.5

Note 1: \triangle ACK, \triangle NACK and \triangle CQI = 30/15 with β _{Iss} = 30/15 * β _c.

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

Note 3: CM = 1 for β_c/β_d =12/15, β_{hs}/β_c =24/15. For all other combinations of DPDCH, DPCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases.

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

Setup Configuration

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HSUPA Setup Configuration:

- a. The EUT was connected to Base Station Agilent E5515C referred to the Setup Configuration.
- b. The RF path losses were compensated into the measurements.
- A call was established between EUT and Base Station with following setting *:
 - Call Configs = 5.2B, 5.9B, 5.10B, and 5.13.2B with QPSK
 - Set the Gain Factors (β_c and β_d) and parameters (AG Index) were set according to each specific sub-test ii. in the following table, C11.1.3, quoted from the TS 34.121

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- Set Cell Power = -86 dBm
- iv. Set Channel Type = 12.2k + HSPA
- v. Set UE Target Power
 vi. Power Ctrl Mode= Alternating bits
 vii. Set and observe the E-TFCI
- viii. Confirm that E-TFCI is equal to the target E-TFCI of 75 for sub-test 1, and other subtest's E-TFCI
- d. The transmitted maximum output power was recorded.

Table C.11.1.3: β values for transmitter characteristics tests with HS-DPCCH and E-DCH

Sub- test	βα	βd	β _d (SF)	β⊲/β⊲	Внs (Note1)	Вес	β _{ed} (Note 4) (Note 5)	β _{ed} (SF)	β _{ed} (Codes)	(dB) (Note 2)	MPR (dB) (Note 2) (Note 6)	AG Index (Note 5)	E- TFCI
1	11/15 (Note 3)	15/15 (Note 3)	64	11/15 (Note 3)	22/15	209/2 25	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	2	2.0	1.0	15	92
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71
5	15/15	0	-		5/15	5/15	47/15	4	1	1.0	0.0	12	67

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

Setup Configuration



HSPA+ 3GPP release 7 (uplink category 7) 16QAM, Setup Configuration:

- The EUT was connected to Base Station Agilent E5515C referred to the Setup Configuration.
- b. The RF path losses were compensated into the measurements.
- c. A call was established between EUT and Base Station with following setting *:
 - Call Configs = 5.2E:HSPA+:UL with 16QAM
 - Set the Gain Factors (β_c and β_d) and parameters (AG Index) were set according to each specific sub-test ii. in the following table, C11.1.4, quoted from the TS 34.121-1 s5.2E

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- iii. Set Channel Parms
- iv. Set Cell Power = -86 dBm
- v. Set Channel Type = HSPA
 vi. Set UE Target Power =21 dBm
 vii. Power Ctrl Mode= All Up Bits
- viii. Set Manual Uplink DPCH Bc/Bd = Manual
- ix. Set Manual Uplink DPCH Bc and Bd=15,15(for 34.121-1 v8.10.0 table C11.1.4 sub-test 1)
- x. Set HSPA Conn DL Channel Levels
- xi. Set HS-SCCH Configs
- xii. Set RB Test Mode Setup
- xiii. Set Common HSUPA Parameters
- xiv. Set Serving Grant
- xv. Confirm that E-TFCI is equal to the target E-TFCI of 105 for sub-test 1, and other subtest's E-TFCI
- The transmitted maximum output power was recorded.

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

Sub- test	β _c (Note3)	β _d	β _{HS} (Note1)	βec	β _{ed} (2xSF2) (Note 4)	β _{ed} (2xSF4) (Note 4)	CM (dB) (Note 2)	MPR (dB) (Note 2)		E-TFCI (Note 5)	
1	1	0	30/15	30/15	β _{ed} 1: 30/15 β _{ed} 2: 30/15	β _{ed} 3: 24/15 β _{ed} 4: 24/15	3.5	2.5	14	105	105

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

Setup Configuration

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<WCDMA Conducted Power>

General Note:

1. Per KDB 941225 D01v03r01, for SAR testing is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".

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2. Per KDB 941225 D01v03r01, RMC 12.2kbps setting is used to evaluate SAR. The maximum output power and tune-up tolerance specified for production units in HSDPA / HSUPA / HSPA+is ≤ ¼ dB higher than RMC 12.2Kbps or when the highest reported SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power and tune-up tolerance of HSDPA / HSUPA / HSPA+ to RMC12.2Kbps and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for HSDPA / HSUPA / HSPA+, and according to the following RF output power, the output power results of the secondary modes (HSDPA / HSUPA / HSPA+) are less than ¼ dB higher than the primary modes; therefore, SAR measurement is not required for HSDPA / HSPA+.

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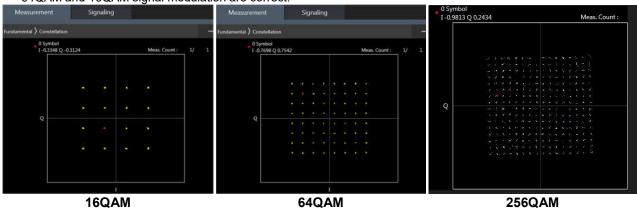
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<LTE Conducted Power>

General Note:

- Anritsu MT8820C base station simulator was used to setup the connection with EUT; the frequency band, channel bandwidth, RB allocation configuration, modulation type are set in the base station simulator to configure EUT transmitting at maximum power and at different configurations which are requested to be reported to FCC, for conducted power measurement and SAR testing.
- 2. Per KDB 941225 D05v02r05, when a properly configured base station simulator is used for the SAR and power measurements, spectrum plots for each RB allocation and offset configuration is not required.
- 3. Per KDB 941225 D05v02r05, start with 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.
- 4. Per KDB 941225 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
- 5. Per KDB 941225 D05v02r05, 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 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.
- 6. Per KDB 941225 D05v02r05, 16QAM/64QAM/256QAM output power for each RB allocation configuration is > not ½ dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, 16QAM/64QAM/256QAM SAR testing is not required.
- 7. Per KDB 941225 D05v02r05, smaller bandwidth output power for each RB allocation configuration is > not ½ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, smaller bandwidth SAR testing is not required.
- 8. For LTE B4 / B5 / B12 / B17 / B26 / B38 the maximum bandwidth does not support three non-overlapping channels, per KDB 941225 D05v02r05, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.
- 9. LTE B2 / B4 /B5 / B17 / B38 SAR test was covered by B25 / B66 / B26 / B12 / B41; according to April 2015 TCB workshop, SAR test for overlapping LTE bands can be reduced if
 - a. the maximum output power, including tolerance, for the smaller band is ≤ the larger band to qualify for the SAR test exclusion
 - b. the channel bandwidth and other operating parameters for the smaller band are fully supported by the larger band
- 10. According to May 2017 TCB workshop, for 16QAM and 64QAM, 256QAM should be verified by checking the signal constellation with a call box to avoid incorrect maximum power levels due to MPR and other requirements associated with signal modulation, and the following figure is taken from the "Fundamental Measurement >> Modulation Analysis >> constellation" mode of the device connect to the MT8821C base station, therefore, the device 256QAM, 64QAM and 16QAM signal modulation are correct.



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<TDD LTE SAR Measurement>

TDD LTE configuration setup for SAR measurement

SAR was tested with a fixed periodic duty factor according to the highest transmission duty factor implemented for the device and supported by 3GPP.

- a. 3GPP TS 36.211 section 4.2 for Type 2 Frame Structure and Table 4.2-2 for uplink-downlink configurations
- b. "special subframe S" contains both uplink and downlink transmissions, it has been taken into consideration to determine the transmission duty factor according to the worst case uplink and downlink cyclic prefix requirements for UpPTS
- c. Establishing connections with base station simulators ensure a consistent means for testing SAR and recommended for evaluating SAR. The Anritsu MT8820C (firmware: #22.52#004) was used for LTE output power measurements and SAR testing.

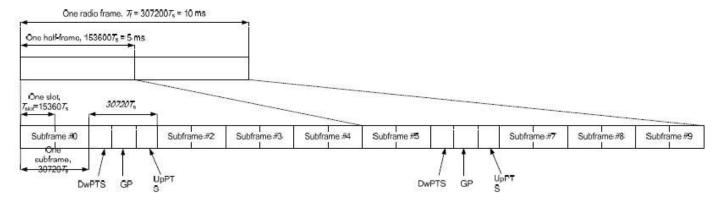


Figure 4.2-1: Frame structure type 2 (for 5 ms switch-point periodicity).

Table 4.2-2: Uplink-downlink configurations.

Uplink-downlink	Downlink-to-Uplink	Subframe number									
configuration	Switch-point periodicity	0	1	2	3	4	5	6	7	8	9
0	5 ms	D	S	U	U	U	D	S	U	U	U
1	5 ms	D	S	U	U	D	D	S	U	U	D
2	5 ms	D	S	U	D	D	D	S	U	D	D
3	10 ms	D	S	U	U	U	D	D	D	D	D
4	10 ms	D	S	U	U	D	D	D	D	D	D
5	10 ms	D	S	U	D	D	D	D	D	D	D
6	5 ms	D	S	U	U	U	D	S	U	U	D

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

Special subframe	Norma	Il cyclic prefix i	n downlink	Extended cyclic prefix in downlink					
configuration	DwPTS	Up	PTS	DwPTS	Up	PTS			
STRACK		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink			
0	6592 · T _s	32 0		7680 · T _s					
1	19760 · T _s			20480 · T _s	2192 · T _s	2560 · T _s			
2	21952 · T _s	2192 · T _s	2560 · T _s	23040 · T _s	2192 · I _s				
3	24144 · T _s			25600 · T _s					
4	26336·T _s			7680 · T _s	1	9			
5	6592 · T _s			20480 · T _s	4384 · T _s	5120 T			
6	19760 · T _s			23040 · T _s	4384·1 _s	5120 · T _s			
7	21952 · T _s	4384 · T _s	5120 · T _s	12800 · T _s					
8	24144 · T _s			(5)	5	5 B			
9	13168 · T _s			(=3	=	=			

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Special subframe (30720·T _s): Normal cyclic prefix in downlink (UpPTS)							
	Special subframe configuration	Normal cyclic prefix in uplink	Extended cyclic prefix in uplink				
Uplink duty factor in one	0~4	7.13%	8.33%				
special subframe	5~9	14.3%	16.7%				

Special subframe(30720⋅T₅): Extended cyclic prefix in downlink (UpPTS)							
	Special subframe Normal cyclic prefix in configuration uplink Extended cyclic prefix i						
Uplink duty factor in one	0~3	7.13%	8.33%				
special subframe	4~7	14.3%	16.7%				

The highest duty factor is resulted from:

For LTE TDD Power class 3

- i. Uplink-downlink configuration: 0. In a half-frame consisted of 5 subfames, uplink operation is in 3 uplink subframes and 1 special subframe.
- ii. special subframe configuration: 5-9 for normal cyclic prefix in downlink, 4-7 for extended cyclic prefix in downlink
- iii. for special subframe with extended cyclic prefix in uplink, the total uplink duty factor in one half-frame is: (3+0.167)/5 = 63.3%
- iv. for special subframe with normal cyclic prefix in uplink, the total uplink duty factor in one half-frame is: (3+0.143)/5 = 62.9%
- v. For TDD LTE SAR measurement, the duty cycle 1:1.59 (62.9 %) was used perform testing and considering the theoretical duty cycle of 63.3% for extended cyclic prefix in the uplink, and the theoretical duty cycle of 62.9% for normal cyclic prefix in uplink, a scaling factor of extended cyclic prefix 63.3%/62.9% = 1.006 is applied to scale-up the measured SAR result. The scaled TDD LTE SAR = measured SAR (W/kg)* Tune-up Scaling Factor* scaling factor for extended cyclic prefix.

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<LTE Carrier Aggregation>

General Note:

- 1. This device supports Carrier Aggregation on downlink for inter and intra band. For the device supports bands and bandwidths and configurations are provided as follow table was according to 3GPP.
- In applying the existing power measurement procedures of KDB 941225 D05A for DL CA SAR test exclusion, only
 the subset with the largest number of combinations of frequency bands and CCs in each row need combination,
 and for this device that all the configurations were choose to power measurement.
- 3. The gray color table is covered by other combinations and no need to verify power.

	2CC Downlin	ık Carrier Aggreg	ation	3CC Downlink Carrier Aggregation					4CC Downlink Carrier Aggregation			
Number	Combination	4X4 MIMO	Covered by Measurement Superset	Number	Combination	4X4 MIMO	Covered by Measurement Superset	Number	Combination	4X4 MIMO	Covered by Measurement Superset	
1	CA_26A-41A			1	CA_2A-4A-5A	4A, 2A		1	CA_2A-4A-7C			
2	CA_2A-2A	2A-2A, 2A		2	CA_2A-4A-7A	7A, 4A, 2A		2	CA_2A-7A-66A-66A			
3	CA_2A-4A	4A, 2A	3CC-1	3	CA_2A-5A-7A	7A, 2A		3				
4	CA_2A-5A	2A	3CC-1	4	CA_2A-66A-66A	66A, 2A	4CC-2	4				
5	CA_2A-66A	66A, 2A	3CC-4	5	CA_2A-7A-66A	7A, 66A, 2A	4CC-2	5				
6	CA_2A-7A	2A-7A, 7A, 2A	3CC-2	6	CA_2A-7A-7A	7A, 2A		6				
7	CA_2C	2C, 2A		7	CA_2A-7C	2A	4CC-1	7				
8	CA_41A-42A	42A		8	CA_4A-7A-7A	7A, 4A		8				
9	CA_42A-42A	42A-42A, 42A		9	CA_4A-7C	4A	4CC-1	9				
10	CA_42C	42C, 42A		10	CA_5A-66A-66A	66A		10				
11	CA_4A-4A	4A-4A, 4A		11	CA_5A-66C			11				
12	CA_4A-5A	4A	3CC-1	12	CA_5A-7A-66A	7A, 66A		12				
13	CA_4A-7A	4A-7A, 7A, 4A	3CC-2	13	CA_5A-7C			13				
14	CA_5A-66A	66A	3CC-10	14	CA_7A-26A-66A	7A, 66A		14				
15	CA_5A-7A	7A	3CC-3	15	CA_7A-66A-66A	7A, 66A	4CC-2	15				
16	CA_66A-66A	66A-66A, 66A	3CC-4	16	CA_7C-66A	66A		16				
17	CA_66B	66B, 66A		17				17				
18	CA_66C	66C, 66A	3CC-11	18				18				
19	CA_7A-26A	7A	3CC-14	19				19				
20	CA_7A-42A	7A-42A, 7A, 42A		20				20				
21	CA_7A-66A	7A-66A, 7A, 66A	3CC-5	21				21				
22	CA_7A-7A	7A-7A, 7A	3CC-6	22				22				
23	CA_7B	7B, 7A		23				23				
24	CA_7C	7C, 7A	3CC-7	24				24				
25	CA_41C	_		25				25				
26			-	26				26				

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LTE Carrier Aggregation Conducted Power (Downlink)

i. According to KDB941225 D05A v01r02, Uplink maximum output power measurement with downlink carrier aggregation active should be measured, using the highest output channel measured without downlink carrier aggregation, to confirm that uplink maximum output power with downlink carrier aggregation active remains within the specified tune-up tolerance limits and not more than ¼ dB higher than the maximum output measured without downlink carrier aggregation active.

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- ii. Uplink maximum output power with downlink carrier aggregation active does not show more than ¼ dB higher than the maximum output power without downlink carrier aggregation active, therefore SAR evaluation with downlink carrier aggregation active can be excluded.
- iii. The device supports downlink four carrier aggregation. For power measurement were control and acknowledge data is sent on uplink channels that operate identical to specifications when downlink carrier aggregation is inactive.
- iv. Selected highest measured power when downlink carrier aggregation is inactive for conducted power comparison with downlink carrier aggregation is active, to confirm that when downlink carrier aggregation is active uplink maximum output power remains within the specified tune-up tolerance limits and not more than ¼ dB higher than the maximum output power measured when downlink carrier aggregation inactive.
- v. For inter-band CA, the SCC selected highest bandwidth and near the middle of its transmission band. For SCC DL RB size and offset will base on the PCC corresponding RB allocation.
- vi. For non-contiguous intra-band CA, the SCC selected to provide maximum separation from the PCC and must remain fully within the downlink transmission band.
- vii. For Intra-band, contiguous CA, the downlink channels selected to perform the uplink power measurement must satisfy 3GPP channel spacing (5.4.1A of 3GPP TS 36.521 or equivalent) and channel bandwidth (5.4.2A) requirements.

Nominal channel spacing =
$$\left[\frac{BW_{Channel(1)} + BW_{Channel(2)} - 0.1 \left| BW_{Channel(1)} - BW_{Channel(2)} \right|}{0.6} \right] 0.3 \text{ [MHz]}$$

LTE 4x4 MIMO (Downlink)

This device supports downlink 4x4 MIMO operations for LTE Band 2/4/7/42/66 only. Uplink transmission is limited to a single output stream. Power measurements were performed with downlink 4x4 MIMO active for the configuration with highest measured maximum conducted power with 4x4 downlink MIMO inactive measured among the channel bandwidth, modulation, and RB combinations in each frequency band.

Per FCC Guidance, SAR for downlink 4x4 MIMO was not needed since the maximum average output power in 4x4 downlink MIMO mode was not > 0.25 dB higher than the maximum output power with downlink 4x4 MIMO inactive. When carrier aggregation is applicable, power measurements were performed with the downlink carrier aggregation and 4x4 DL MIMO active for the configuration with highest measured maximum conducted power with downlink carrier aggregation inactive measured among the channel bandwidth, modulation, and RB combinations in each frequency hand

074.181.0	Band
4X4 MIMO	LTE Band 2/4/7/42/66

LTE Carrier Aggregation Conducted Power (Uplink)

LTE Uplink CA	2CC Uplink Carrier Aggregation
Intra-band	Antenna Tx
CA_7C	Ant 1
CA_66B	Ant 0/4
CA_66C	Ant 0/4

<Intra-band>

General Note:

- i. The device supports intra-band uplink carrier aggregation for LTE B7/66 with a maximum of two uplink component carriers. For intra band contiguous carrier aggregation scenarios, 3GPP 36.101 table 6.2.2A-1 specifies that the aggregate maximum allowed output power is equivalent to the single carrier scenario. 3GPP 36.101 6.2.3A allows for several dB of MPR to be applied when not-contiguous RB allocation is implemented. The conducted power and MPR setting in this device are permanently implemented pre 3GPP requirement.
- ii. The device supports uplink carrier aggregation with a maximum of two uplink component carriers. For intra band contiguous carrier aggregation scenarios, 3GPP 36.101 table 6.2.2A-1 specifies that the aggregate maximum allowed output power is equivalent to the single carrier scenario. 3GPP 36.101 6.2.3A allows for several dB of MPR to be applied when not-contiguous RB allocation is implemented. The conducted power and MPR setting in this device are permanently implemented pre the 3GPP requirement.
- iii. According Nov. 2017 TCB workshop, the output power with uplink CA active was measured for the configuration with the highest reported SAR with single carrier for each exposure condition. The power was measured with wideband signal integration over both component carriers.
- iv. Additional SAR measurement for LTE UL CA whit other DL CA combinations active were not required since the maximum output power for this configuration was not > 0.25dB higher than the maximum output power for UL CA active.
- v. LTE CA_66B test was covered by CA_66C; therefore, SAR was only assessed for CA_66C.

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<Inter-band uplink carrier aggregation consideration>

LTE Uplink CA	2CC Uplink Carrier Aggregation
Inter-band	Antenna Tx
CA_2A-4A	Ant 0+ANT4
CA_2A-66A	Ant 0+ANT4
CA_2A-7A	ANT4+ANT1
CA_4A-5A	Ant 0+ANT4
CA_4A-7A	Ant 4+ Ant 1
CA_5A-66A	ANT4+ANT0

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General Note:

- 1. The single carrier of inter band CA uplink power level is the same as Non-CA standalone LTE power level.
- 2. The product implements Qualcomm Smart Transmit feature which controls the instantaneous transmitting power for WWAN transmitter to ensure the product in compliance with FCC RF exposure limit over a defined time window, for SAR (transmit frequency ≤ 6GHz). To control and manage transmitting power in real time and to ensure at all times the time-averaged RF exposure is compliant to the regulation requirement.
- 3. For LTE inter-band CA mode, Qualcomm Smart Transmit algorithm in WWAN adds directly the time-averaged RF exposure between two LTE bands. Smart Transmit algorithm controls the total RF exposure base on LTE inter CA bands to not exceed FCC limit. In Part 1 Report, simultaneous transmission compliance was evaluated with other Radios (WLAN or BT) using standalone LTE SAR mode.

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5G NR Output Power (Unit: dBm)

General Note:

- 1. 5G NR n2/n5/n7/n26/n66/n38/n41/n78 is SA mode.
- 2. 5G NR n2/n5/n7/n66/n38/n41/n78 is NSA mode.
- 3. For 5G NR test procedure was following step similar FCC KDB 941225 D05:
 - a. For DFT-OFDM and CP-OFDM output power measurement reduction, according to 38.101 maximum power reduction for power class2 and 3, the CP-OFDM mode will not higher than DFT-OFDM mode, therefore, similar FCC KDB 941225 D05 procedure for other modulation output power for each RB allocation configuration is > not ½ dB higher than the same configuration in DFT-s QPSK and the reported SAR for the DFT-s QPSK configuration is ≤ 1.45 W/kg; CP-OFDM testing is not required.

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- b. For DFT-OFDM output power measurement reduction, according to 38.101 maximum power reduction for power class2 and 3, for 16QAM/64QAM/256QAM and smaller bandwidth output power will spot check largest channel bandwidth worst RB configuration to ensure the 16QAM/64QAM/256QAM and smaller bandwidth output power will not ½ dB higher than the same configuration in the largest supported bandwidth.
- c. SAR testing start with 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
- d. 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure
- e. 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 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
- f. PI/2 BPSK/16QAM/64QAM/256QAM output powers according to 3GPP MPR will not ½ dB higher than the same configuration in QPSK, also reported SAR for the QPSK configuration is less than 1.45 W/kg, PI/2 BPSK /16QAM/64QAM/256QAM SAR testing are not required.
- g. Smaller bandwidth output power for each RB allocation configuration for this device will not ½ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg, smaller bandwidth SAR testing is not required for this device
- 4. For 5G NR bands test, using FTM (Factory Test Mode) with default 100% duty cycle transmission to perform SAR testing.
- 5. NSA and SA mode should perform SAR separately. For the maximum power of NSA mode is the same as SA total power level, so SA SAR can represent NSA mode SAR.
- 5GNR NSA mode, the power level is the same as 5GNR SA mode, so 5GNR NSA mode and SA mode power table only show one time.
- 7. 5G NR supports CP-OFDM and DFT-s-OFDM modulation, for DFT-s-OFDM power is higher than CP-OFDM, so only show DFT-s-OFDM power table and chose DFT-s-OFDM to perform SAR testing.
- 8. For DFT-s-OFDM and CP-OFDM output power measurement reduction, according to 38.101 maximum power reduction for the CP-OFDM mode will not higher than DFT-s-OFDM mode, therefore, CP-OFDM measurement is unnecessary.

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<3GPP 38.101 MPR for EN-DC>

Table 6.2.2-1 Maximum power reduction (MPR) for power class 3

\$40.00	Jane 2000	MPR (dB)						
Modul	lation	Edge RB allocations	Inner RB allocation					
	DUD DDOK	≤ 3.51	≤ 1.21	≤ 0.21				
	Pi/2 BPSK	≤ 0.5 ²	≤ 0.5 ²	O ²				
DET - OFDIA	QPSK		0					
DFT-s-OFDM	16 QAM		≤1					
	64 QAM		70					
	256 QAM							
	QPSK		≤3	≤ 1.5				
CD OFFIN	16 QAM		≤3	≤2				
CP-OFDM	64 QAM		≤ 3.5	12000				
	256 QAM		≤ 6.5					

26.5

NOTE 1: Applicable for UE operating in TDD mode with Pi/2 BPSK modulation and UE indicates support for UE capability powerBoosting-pi/2BPSK and if the IE powerBoostPi2BPSK is set to 1 and 40 % or less slots in radio frame are used for UL transmission for bands n40, n41, n77, n78 and n79. The reference power of 0 dB MPR is 26 dBm.

NOTE 2: Applicable for UE operating in FDD mode, or in TDD mode in bands other than n40, n41, n77, n78 and n79 with Pi/2 BPSK modulation and if the IE powerBoostPi2BPSK is set to 0 and if more than 40 % of slots in radio frame are used for UL transmission for bands n40, n41, n77, n78 and n79.

Table 6.2.2-2 Maximum power reduction (MPR) for power class 2

Modu	lation	MPR (dB)												
		Edge RB allocations	Outer RB allocations	Inner RB allocations										
	Pi/2 BPSK	≤ 3.5	≤ 0.5	0										
DFT-s-	QPSK	≤ 3.5	≤1	0										
OFDM	16 QAM	≤ 3.5	≤ 2	≤1										
OFDIM	64 QAM	≤ 3.5	5 2	2.5										
	256 QAM	Tools on the	≤ 4.5											
	QPSK	≤ 3.5	≤ 3	≤ 1.5										
CP-OFDM	16 QAM	≤ 3.5	≤ 3	≤2										
CP-OFDM	64 QAM	≤ 3.5												
	256 QAM		≤ 6.5											

<EN-DC combination>

ENDC	LTE TX	NR TX
DC_5A_n2A	ANT4	ANT0
DC_66A_n2A	ANT0	ANT4
DC_7A_n2A	ANT1	ANT4
DC_2A_n5A	ANT0	ANT4
DC_2A_n7A	ANT0	ANT4
DC_4A_n7A	ANT0	ANT4
DC_5A_n7A	ANT0	ANT4
DC_66A_n7A	ANT0	ANT4
DC_2A_n66A	ANT0	ANT4
DC_5A_n66A	ANT4	ANT0
DC_7A_n66A	ANT1	ANT4
DC_2A_n38A	ANT0	ANT4
DC_4A_n38A	ANT0	ANT4
DC_66A_n38A	ANT0	ANT4
DC_26A_n41A	ANT0	ANT4
DC_2A_n41A	ANT0	ANT4
DC_4A_n41A	ANT0	ANT4
DC_66A_n41A	ANT0	ANT4
DC_38A_n78A	ANT1	ANT5
DC_41A_n78A	ANT1	ANT5
DC_5A_n78A	ANT0	ANT5
DC_7A_n78A	ANT1	ANT5
DC_26A_n78A	ANT0	ANT5
DC_2A_n78A	ANT0	ANT5
DC_4A_n78A	ANT0	ANT5
DC_66A_n78A	ANT0	ANT5

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<WLAN Conducted Power>

General Note:

The maximum output power specified for production units are determined for all applicable 802.11 transmission modes in each standalone and aggregated frequency band. Maximum output power is measured for the highest maximum output power configuration(s) in each frequency band according to the default power measurement procedures. For "Not required", SAR Test reduction was applied from KDB 248227 guidance, Sec. 2.1, b), 1) when the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel in the initial test configuration. Additional output power measurements were not necessary.

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- Per KDB 248227 D01v02r02, SAR test reduction is determined according to 802.11 transmission mode 2. configurations and certain exposure conditions with multiple test positions. In the 2.4 GHz band, separate SAR procedures are applied to DSSS and OFDM configurations to simplify DSSS test requirements. For OFDM, in both 2.4 and 5 GHz bands, an initial test configuration must be determined for each standalone and aggregated frequency band, according to the transmission mode configuration with the highest maximum output power specified for production units to perform SAR measurements. If the same highest maximum output power applies to different combinations of channel bandwidths, modulations and data rates, additional procedures are applied to determine which test configurations require SAR measurement. When applicable, an initial test position may be applied to reduce the number of SAR measurements required for next to the ear, UMPC mini-tablet or hotspot mode configurations with multiple test positions.
- For 2.4 GHz 802.11b DSSS, either the initial test position procedure for multiple exposure test positions or the 3. DSSS procedure for fixed exposure position is applied; these are mutually exclusive. For 2.4 GHz and 5 GHz OFDM configurations, the initial test configuration is applied to measure SAR using either the initial test position procedure for multiple exposure test position configurations or the initial test configuration procedures for fixed exposure test conditions. Based on the reported SAR of the measured configurations and maximum output power of the transmission mode configurations that are not included in the initial test configuration, the subsequent test configuration and initial test position procedures are applied to determine if SAR measurements are required for the remaining OFDM transmission configurations. In general, the number of test channels that require SAR measurement is minimized based on maximum output power measured for the test sample(s).
- For OFDM transmission configurations in the 2.4 GHz and 5 GHz bands, When the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel for each frequency band.
- DSSS and OFDM configurations are considered separately according to the required SAR procedures. SAR is measured in the initial test position using the 802.11 transmission mode configuration required by the DSSS procedure or initial test configuration and subsequent test configuration(s) according to the OFDM procedures.18 The initial test position procedure is described in the following:
 - When the reported SAR of the initial test position is ≤ 0.4 W/kg, further SAR measurement is not required for the other test positions in that exposure configuration and 802.11 transmission mode combinations within the frequency band or aggregated band.
 - When the reported SAR of the test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position to measure the subsequent next closet/smallest test separation distance and maximum coupling test position on the highest maximum output power channel, until the report SAR is ≤ 0.8 W/kg or all required test position are tested.
 - For all positions/configurations, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel(s) until the reported SAR is ≤ 1.2 W/kg or all required channels are tested.

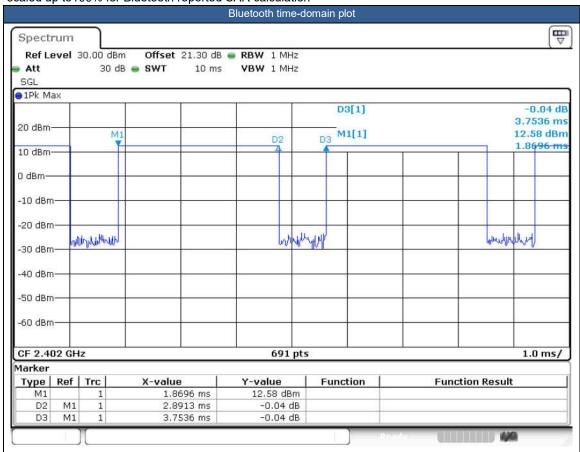
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<2.4GHz Bluetooth>

General Note:

- 1. For 2.4GHz Bluetooth SAR testing was selected 1Mbps, due to its highest average power.
- 2. The Bluetooth duty cycle are 77.03% as following figure, according to 2016 Oct. TCB workshop for Bluetooth SAR scaling need further consideration and the maximum duty cycle is 100%, therefore the actual duty cycle will be scaled up to 100% for Bluetooth reported SAR calculation



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15. Antenna Location

The detailed antenna location information can refer to SAR Test Setup Photos.

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16. SAR Test Results

General Note:

- 1. Per KDB 447498 D01v06, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
 - a. Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.

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- b. For SAR testing of BT/WLAN signal with non-100% duty cycle, the measured SAR is scaled-up by the duty cycle scaling factor which is equal to "1/(duty cycle)"
- c. For WWAN: Reported SAR(W/kg)= Measured SAR(W/kg)*Tune-up Scaling Factor
- d. For BT/WLAN: Reported SAR(W/kg)= Measured SAR(W/kg)* Duty Cycle scaling factor * Tune-up scaling factor
- e. For TDD LTE SAR measurement of power class 3, the duty cycle 1:1.59 (62.9 %) was used perform testing and considering the theoretical duty cycle of 63.3% for extended cyclic prefix in the uplink, and the theoretical duty cycle of 62.9% for normal cyclic prefix in uplink, a scaling factor of extended cyclic prefix 63.3%/62.9% = 1.006 is applied to scale-up the measured SAR result. The reported TDD LTE SAR (W/kg) = Measured SAR (W/kg)* Tune-up Scaling Factor* scaling factor for extended cyclic prefix.
- 2. Per KDB 447498 D01v06, for each exposure position, testing of other required channels within the operating mode of a frequency band is not required when the *reported* 1-g or 10-g SAR for the mid-band or highest output power channel is:
 - · ≤ 0.8 W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≤ 100 MHz
 - ≤ 0.6 W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz
 - · ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz
- 3. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required when the measured SAR is ≥ 0.8W/kg. Per KDB 865664 D01v01r04, if the extremity repeated SAR is necessary, the same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.
- 4. The device implements the power management and proximity sensor /receiver detection/hotspot mode for SAR compliance at different exposure conditions (head, body-worn, hotspot, extremity) and the Qualcomm smart transmit will manage to ensure the power level not exceeding the associated power table. Details about the power management decision and sensor detection are provided in the operational description. And the device will invoke corresponding work scenarios power level base on frequency bands/antennas, which can refer to power table at appendix E.
- For WLAN/BT when transmit simultaneous with WWAN, power reduction will be activated to head. For WLAN when transmit simultaneous with WWAN and Proximity sensors trigger, power reduction will be activated to body-worn and Handheld.
- 6. Per KDB648474 D04v01r03, for smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm, when hotspot mode applies, 10-g extremity SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg, however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold.
 - a. For this device SAR for WWAN/WLAN transmitter scaled to maximum output power mode for product specific 10g SAR is higher than 1.2W/kg of GSM850/1900, WCDMA Band II/IV/V, LTE Band 2/4/5/7/12/13/17/25/26/66/38/41/42, 5GNR n2/n5/n7/n26/n66/n38/n41/n78, WLAN2.4/5.2/5.8GHz, therefore product specific 10g SAR is necessary.
 - b. WLAN 5.3/5.5GHz tested the product specific 10g SAR since it has no hotspot mode.
 - c. When 10-g product specific 10g SAR is considered, SAR thresholds is specified in the procedures for SAR test reduction and exclusion should be multiplied by 2.5.
- 7. Although the headset SAR is greater than 0.8 W/kg, the headset SAR verified the worst of the non-headset SAR and less than non-headset SAR, so there is no need to be tested other channels.
- 8. According to Nov. 2017 TCB workshop, when the reported 1gSAR for UL CA configuration is <1.2 W/kg, UL CA 1gSAR is not required for all required test channels (PCC based).
- 9. For extremity exposure conditions, WLAN 2.4GHz SAR test at Back side and WLAN 5GHz SAR test at Front/Back/Right/Top side 0mm used full power SAR testing, so WLAN 5GHz distance SAR test is not required.

GSM Note:

 Per KDB 941225 D01v03r01, for SAR test reduction for GSM / GPRS / EDGE modes is determined by the source-based time-averaged output power including tune-up tolerance. The mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum

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output power and tolerance, the higher number time-slot configuration should be tested.

Other configurations of GSM / GPRS / EDGE are considered as secondary modes. The 3G SAR test reduction procedure 2. is applied, when the maximum output power and tune-up tolerance specified for production units in a secondary mode is ≤ 1/4 dB higher than the primary mode, SAR measurement is not required for the secondary mode.

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WCDMA Note:

- 1. Per KDB 941225 D01v03r01, for SAR testing is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".
- 2. Per KDB 941225 D01v03r01, RMC 12.2kbps setting is used to evaluate SAR. The maximum output power and tune-up tolerance specified for production units in HSDPA / HSUPA / HSPA+is ≤ 1/4 dB higher than RMC 12.2Kbps or when the highest reported SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power and tune-up tolerance of HSDPA / HSDPA / HSPA+ to RMC12.2Kbps and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for HSDPA / HSUPA / HSPA+, and according to the following RF output power, the output power results of the secondary modes (HSDPA / HSPA+) are less than 1/4 dB higher than the primary modes; therefore, SAR measurement is not required for HSDPA / HSUPA / HSPA+.

LTE Note:

- Per KDB 941225 D05v02r05, start with 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.
- Per KDB 941225 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
- Per KDB 941225 D05v02r05, 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 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.
- Per KDB 941225 D05v02r05, 16QAM/64QAM/256QAM output power for each RB allocation configuration is > not ½ dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, 16QAM/64QAM/256QAM SAR testing is not required.
- Per KDB 941225 D05v02r05, smaller bandwidth output power for each RB allocation configuration is > not ½ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, smaller bandwidth SAR testing is not required.
- For LTE B4 / B5 / B12 / B17 / B26 / B38 the maximum bandwidth does not support three non-overlapping channels, per KDB 941225 D05v02r05, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.
- LTE B2 / B4 /B5 / B17 / B38 SAR test was covered by B25 / B66 / B26 / B12 / B41; according to April 2015 TCB workshop, SAR test for overlapping LTE bands can be reduced if
 - a. the maximum output power, including tolerance, for the smaller band is ≤ the larger band to qualify for the SAR
 - b. the channel bandwidth and other operating parameters for the smaller band are fully supported by the larger band

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5G NR Note:

- 1. For 5G NR test procedure was following step similar FCC KDB 941225 D05:
 - a. SAR testing start with 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.

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- b. 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure
- c. 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 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. PI/2 BPSK/16QAM/64QAM/256QAM output powers according to 3GPP MPR will not ½ dB higher than the same configuration in QPSK, also reported SAR for the QPSK configuration is less than 1.45 W/kg, PI/2 BPSK /16QAM/64QAM/256QAM SAR testing are not required.
- e. Smaller bandwidth output power for each RB allocation configuration for this device will not ½ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg, smaller bandwidth SAR testing is not required for this device
- f. For 5G FR1 n5 /n7/n26/n66/n38/n41/n78 the maximum bandwidth does not support three non-overlapping channels, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

WLAN/Bluetooth Note:

- 1. Per KDB 248227 D01v02r02, for 2.4GHz 802.11g/n SAR testing is not required when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.
- 2. Per KDB 248227 D01v02r02, U-NII-1 SAR testing is not required when the U-NII-2A band highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band.
- 3. When the reported SAR of the test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position to measure the subsequent next closet/smallest test separation distance and maximum coupling test position on the highest maximum output power channel, until the report SAR is ≤ 0.8 W/kg or all required test position are tested
- 4. For all positions / configurations, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions / configurations on the subsequent next highest measured output power channel(s) until the reported SAR is ≤ 1.2 W/kg or all required channels are tested.
- 5. During SAR testing the WLAN transmission was verified using a spectrum analyzer.

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16.1 Head SAR

16.1 Head SAR																					
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Sample	_	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
										750MF	łz										
01	LTE Band 12	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	DSI 2	23095	707.5	1	22.55	24.00	1.396	-	-	0.13	0.583	0.814
	LTE Band 12	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	DSI 2	23095	707.5	1	22.55	24.00	1.396	-	-	-0.06	0.577	0.806
	LTE Band 12	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 4	DSI 2	23095	707.5	1	22.55	24.00	1.396	-	-	0.07	0.523	0.730
	LTE Band 12	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 4	DSI 2	23095	707.5	1	22.55	24.00	1.396	-	-	0.04	0.518	0.723
	LTE Band 12	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 4	DSI 2	23095	707.5	1	21.64	23.00	1.368	-	-	0.13	0.466	0.637
	LTE Band 12	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 4	DSI 2	23095	707.5	1	21.64	23.00	1.368	-	-	-0.08	0.448	0.613
	LTE Band 12	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 4	DSI 2	23095	707.5	1	21.64	23.00	1.368	-	-	0.15	0.411	0.562
	LTE Band 12	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 4	DSI 2	23095	707.5	1	21.64	23.00	1.368	-	-	0.1	0.409	0.559
	LTE Band 12	10M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	DSI 2	23095	707.5	1	21.46	23.00	1.426	-	-	-0.05	0.420	0.599
	LTE Band 12	10M	QPSK	50	0	-	Right Tilted	0mm	Ant 4	DSI 2	23095	707.5	1	21.46	23.00	1.426	-	-	0.12	0.406	0.579
	LTE Band 12	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	DSI 2	23095	707.5	1	22.55	24.00	1.396	-	-	0.02	0.300	0.419
	LTE Band 12	10M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	DSI 2	23095	707.5	1	22.55	24.00	1.396	-	-	0.06	0.176	0.246
	LTE Band 12	10M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	DSI 2	23095	707.5	1	22.55	24.00	1.396	-	-	-0.08	0.257	0.359
	LTE Band 12	10M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	DSI 2	23095	707.5	1	22.55	24.00	1.396	-	-	0.18	0.150	0.209
	LTE Band 12	10M	QPSK	25	0	-	Right Cheek	0mm	Ant 0	DSI 2	23095	707.5	1	21.64	23.00	1.368	-	-	0.19	0.235	0.321
	LTE Band 12	10M	QPSK	25	0	-	Right Tilted	0mm	Ant 0	DSI 2	23095	707.5	1	21.64	23.00	1.368	-	-	0.01	0.104	0.142
	LTE Band 12	10M	QPSK	25	0	-	Left Cheek	0mm	Ant 0	DSI 2	23095	707.5	1	21.64	23.00	1.368	-	-	-0.12	0.147	0.201
	LTE Band 12	10M	QPSK	25	0	-	Left Tilted	0mm	Ant 0	DSI 2	23095	707.5	1	21.64	23.00	1.368	-	-	-0.15	0.087	0.119
02	LTE Band 13	10M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	DSI 2	23230	782	1	22.48	24.00	1.419	_	-	0.01	0.512	0.727
-	LTE Band 13	10M	QPSK	1	0	_	Right Tilted		Ant 4	DSI 2	23230	782	1	22.48	24.00	1.419	-	-	-0.07	0.493	0.700
	LTE Band 13	10M	QPSK	1	0	_	Left Cheek	0mm	Ant 4	DSI 2	23230	782	1	22.48	24.00	1.419	_	-	-0.09	0.435	0.617
	LTE Band 13	10M	QPSK	1	0	_	Left Tilted	0mm	Ant 4	DSI 2	23230	782	1	22.48	24.00	1.419	_	_	0.07	0.427	0.606
	LTE Band 13	10M	QPSK	25	0	_	Right Cheek	-	Ant 4	DSI 2	23230	782	1	21.45	23.00	1.429	_	_	-0.09	0.410	0.586
	LTE Band 13	10M	QPSK	25	0		Right Tilted	<u> </u>	Ant 4	DSI 2	23230	782	1	21.45	23.00	1.429	-	_	-0.14	0.389	0.556
	LTE Band 13	10M	QPSK	25	0		Left Cheek	0mm	Ant 4	DSI 2	23230	782	1	21.45	23.00	1.429	_	-	0.02	0.351	0.502
	LTE Band 13	10M	QPSK	25	0		Left Tilted	0mm	Ant 4	DSI 2	23230	782	1	21.45	23.00	1.429	-	_	-0.04	0.344	0.492
	LTE Band 13	10M	QPSK	1	0		Right Cheek	-	Ant 0	DSI 2	23230	782	1	22.49	24.00	1.416	-	_	-0.04	0.391	0.492
	LTE Band 13	10M	QPSK	1	0		Right Tilted	<u> </u>	Ant 0	DSI 2	23230	782	1	22.49	24.00	1.416	_	-	-0.03	0.215	0.304
_	LTE Band 13	10M	QPSK	1	0		Left Cheek	0mm	Ant 0	DSI 2	23230	782	1	22.49	24.00	1.416	-	_	-0.17	0.318	0.450
_	LTE Band 13	10M	QPSK	1	0	_	Left Tilted	0mm	Ant 0	DSI 2	23230	782	1	22.49	24.00	1.416	_	-	-0.12	0.172	0.430
	LTE Band 13	10M	QPSK	25	0	-	Right Cheek		Ant 0	DSI 2	23230	782	1	21.62	23.00	1.374	-	-	0.12	0.172	0.297
	LTE Band 13	10M	QPSK	25	0	-			Ant 0	DSI 2	23230	782	1	21.62	23.00	1.374	-	-	-0.06	0.210	0.297
	LTE Band 13	10M	QPSK	25	0	-	Right Tilted Left Cheek	1	Ant 0	DSI 2	23230	782	1	21.62	23.00	1.374	-	-	0.08	0.107	0.147
	LTE Band 13		QPSK	25	0	-	Left Tilted	1			23230	782	1	21.62	23.00	1.374	_	-	-0.01	0.095	0.131
	LIE Danu 13	TOW	QFSN	25	U	-	Leit Tilleu	OHIIII	Anto	835MF	l	102	'	21.02	23.00	1.374		_	-0.01	0.093	0.131
03	GSM850	-	_			GPRS 2 Tx slots	Right Chack	Omm	Ant 0	DSI 2		836.4	1	30.22	31.50	1.343	-	- I	-0.02	0.524	0.704
03	GSM850	-	-	-		GPRS 2 Tx slots		1	Ant 0	DSI 2	189	836.4	1	30.22	31.50	1.343	-	-	0.02	0.524	0.704
	GSM850 GSM850	-	-	-		GPRS 2 Tx slots	_	-		DSI 2	189	836.4	1	30.22	31.50	1.343	-	-	0.03	0.286	0.384
-		-	-	_					Ant 0				1				-	-			
<u></u>	GSM850	-	-	-	-	GPRS 2 Tx slots		0mm	Ant 0	DSI 2	189	836.4		30.22	31.50	1.343	_		0.04	0.242	0.325
04	WCDMA V	-	-	-	-	RMC 12.2Kbps	•	-	Ant 0	DSI 2	4182	836.4	1	22.70	24.00	1.349	-	-	-0.14	0.392	0.529
_	WCDMA V	-	-	-	-	·	Right Tilted	-	Ant 0	DSI 2	4182	836.4	1	22.70	24.00	1.349	-	-	-0.19	0.178	0.240
<u> </u>	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Cheek	1	Ant 0	DSI 2	4182	836.4	1	22.70	24.00	1.349	-	-	0.09	0.353	0.476
<u> </u>	WCDMA V	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 0	DSI 2	4182	836.4	1	22.70	24.00	1.349	-	-	-0.11	0.156	0.210
05	LTE Band 26	15M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	DSI 2	26865	831.5	1	20.75	22.20	1.396	-	-	0.06	0.551	0.769
	LTE Band 26	15M	QPSK	1	0	-	Right Tilted	_	Ant 4	DSI 2	26865	831.5	1	20.75	22.20	1.396	-	-	-0.07	0.469	0.655
	LTE Band 26	15M	QPSK	1	0	-	Left Cheek	0mm	Ant 4	DSI 2	26865	831.5	1	20.75	22.20	1.396	-	-	-0.11	0.441	0.616
	LTE Band 26	15M	QPSK	1	0	-	Left Tilted	0mm	Ant 4	DSI 2	26865	831.5	1	20.75	22.20	1.396	-	-	-0.06	0.428	0.598
	LTE Band 26	15M	QPSK	36	0	-	Right Cheek	0mm	Ant 4	DSI 2	26865	831.5	1	20.73	22.20	1.403	-	-	0.08	0.521	0.731
	LTE Band 26	15M	QPSK	36	0	-	Right Tilted	0mm	Ant 4	DSI 2	26865	831.5	1	20.73	22.20	1.403	-	-	-0.12	0.457	0.641
	LTE Band 26	15M	QPSK	36	0	-	Left Cheek	0mm	Ant 4	DSI 2	26865	831.5	1	20.73	22.20	1.403	-	-	0.14	0.437	0.613

Sporton International Inc. (Shenzhen)

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	LTE Band 26	15M	QPSK	36	0	-	Left Tilted	0mm	Ant 4	DSI 2	26865	831.5	1	20.73	22.20	1.403	-	-	-0.04	0.421	0.591
	LTE Band 26	15M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	DSI 2	26865	831.5	1	22.45	24.00	1.429	-	-	-0.13	0.336	0.480
	LTE Band 26	15M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	DSI 2	26865	831.5	1	22.45	24.00	1.429	-	-	0.1	0.209	0.299
	LTE Band 26	15M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	DSI 2	26865	831.5	1	22.45	24.00	1.429	-	-	0.16	0.314	0.449
	LTE Band 26	15M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	DSI 2	26865	831.5	1	22.45	24.00	1.429	-	-	0.18	0.167	0.239
	LTE Band 26	15M	QPSK	36	0	-	Right Cheek	0mm	Ant 0	DSI 2	26865	831.5	1	21.48	23.00	1.419	-	-	0.18	0.216	0.307
	LTE Band 26	15M	QPSK	36	0	-	Right Tilted	0mm	Ant 0	DSI 2	26865	831.5	1	21.48	23.00	1.419	-	-	-0.08	0.119	0.169
	LTE Band 26	15M	QPSK	36	0	_	Left Cheek	0mm	Ant 0	DSI 2	26865	831.5	1	21.48	23.00	1.419	-	-	-0.19	0.196	0.278
	LTE Band 26	15M	QPSK	36	0	_	Left Tilted	0mm	Ant 0	DSI 2	26865	831.5	1	21.48	23.00	1.419	_	-	-0.02	0.096	0.136
	FR1 n26	20M	QPSK	1	1	DFT-15	Right Cheek		Ant 4	DSI 2	166300	831.5	1	21.90	23.00	1.288	-	-	-0.16	0.637	0.821
	FR1 n26	20M	QPSK	1	1	DFT-15	Right Tilted		Ant 4	DSI 2	166300	831.5	1	21.90	23.00	1.288	-	-	0.19	0.617	0.795
																	_				
	FR1 n26	20M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 4	DSI 2	166300	831.5	1	21.90	23.00	1.288	-	-	0	0.601	0.774
	FR1 n26	20M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 4	DSI 2	166300	831.5	1	21.90	23.00	1.288	-	-	0.04	0.579	0.746
06	FR1 n26	20M	QPSK	50	28	DFT-15	Right Cheek		Ant 4	DSI 2	166300	831.5	1	21.89	23.00	1.291	-	-	0.1	0.698	0.901
	FR1 n26	20M	QPSK	50	28	DFT-15	Right Cheek	0mm	Ant 4	DSI 2	166300	831.5	2	21.89	23.00	1.291	-	-	0.01	0.508	0.656
	FR1 n26	20M	QPSK	50	28	DFT-15	Right Tilted	0mm	Ant 4	DSI 2	166300	831.5	1	21.89	23.00	1.291	-	-	0.03	0.661	0.853
	FR1 n26	20M	QPSK	50	28	DFT-15	Left Cheek	0mm	Ant 4	DSI 2	166300	831.5	1	21.89	23.00	1.291	-	-	-0.03	0.640	0.826
	FR1 n26	20M	QPSK	50	28	DFT-15	Left Tilted	0mm	Ant 4	DSI 2	166300	831.5	1	21.89	23.00	1.291	-	-	-0.18	0.625	0.807
	FR1 n26	20M	QPSK	100	0	DFT-15	Right Cheek	0mm	Ant 4	DSI 2	166300	831.5	1	21.77	23.00	1.327	-	-	0.02	0.617	0.819
	FR1 n26	20M	QPSK	100	0	DFT-15	Right Tilted	0mm	Ant 4	DSI 2	166300	831.5	1	21.77	23.00	1.327	-	-	0.01	0.585	0.777
	FR1 n26	20M	QPSK	100	0	DFT-15	Left Cheek	0mm	Ant 4	DSI 2	166300	831.5	1	21.77	23.00	1.327	-	-	-0.08	0.573	0.761
	FR1 n26	20M	QPSK	100	0	DFT-15	Left Tilted	0mm	Ant 4	DSI 2	166300	831.5	1	21.77	23.00	1.327	-	-	-0.06	0.554	0.735
	FR1 n26	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 0	DSI 2	166300	831.5	1	22.93	24.00	1.279	-	-	-0.08	0.244	0.312
	FR1 n26	20M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 0	DSI 2	166300	831.5	1	22.93	24.00	1.279	-	-	-0.13	0.142	0.182
	FR1 n26	20M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 0	DSI 2	166300	831.5	1	22.93	24.00	1.279	-	-	0.03	0.210	0.269
	FR1 n26	20M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 0	DSI 2	166300	831.5	1	22.93	24.00	1.279	_	-	-0.16	0.122	0.156
	FR1 n26	20M	QPSK	50	28		Right Cheek		Ant 0	DSI 2	166300	831.5	1	22.80	24.00	1.318	_	-	0.05	0.283	0.373
	FR1 n26	20M	QPSK	50	28	DFT-15	Right Tilted		Ant 0	DSI 2	166300	831.5	1	22.80	24.00	1.318		_	-0.03	0.146	0.192
	FR1 n26	20M	QPSK	50	28		Left Cheek			DSI 2	166300	831.5	1		24.00		-	-	-0.03	0.140	0.192
						DFT-15		0mm	Ant 0					22.80		1.318	-	-			
	FR1 n26	20M	QPSK	50	28	DFT-15	Left Tilted	0mm	Ant 0	DSI 2	l	831.5	1	22.80	24.00	1.318	_	-	0.06	0.128	0.169
07	14/OD444 IV/	I		l 1		DNO 40 01/1	District Observe	0		1750MI	1	4700.0	4	00.00	04.00	4.050	1		0.04	0.440	0.457
07	WCDMA IV	-	-	-	-	RMC 12.2Kbps	•	\vdash	Ant 0	DSI 2	1413	1732.6	1	22.69	24.00	1.352	-	-	-0.04	0.116	0.157
	WCDMA IV	-	-	-	-		Right Tilted		Ant 0	DSI 2	1413	1732.6	1	22.69	24.00	1.352	-	-	0.06	0.045	0.061
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 0	DSI 2	1413	1732.6	1	22.69	24.00	1.352	-	-	-0.16	0.049	0.066
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 0	DSI 2	1413	1732.6	1	22.69	24.00	1.352	-	-	0.08	0.025	0.034
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	DSI 2	132322	1745	1	16.67	18.00	1.358	-	-	-0.11	0.542	0.736
80	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	DSI 2		1745	1	16.67	18.00	1.358	-	-	-0.06	0.687	0.933
	LTE Band 66C	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	DSI 2	132322+ 132520	1745+ 1764.8	1	16.65	18.00	1.365	-	-	0.07	0.621	0.847
	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	DSI 2	132322	1745	2	16.67	18.00	1.358	-	-	-0.03	0.493	0.670
	LTE Band 66	20M	QPSK	1	0	-	Left Cheek		Ant 4	DSI 2	132322	1745	1	16.67	18.00	1.358	-	-	0.06	0.462	0.628
	LTE Band 66	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 4	DSI 2	132322	1745	1	16.67	18.00	1.358	-	-	0.16	0.500	0.679
\vdash	LTE Band 66	20M			0						132322						-	-	-0.19	0.636	0.866
\vdash			QPSK	1		-	Right Tilted		Ant 4	DSI 2		1720	1	16.66	18.00	1.361	-				+
	LTE Band 66	20M	QPSK	1	0	-	Right Tilted		Ant 4	DSI 2	132572	1770	1	16.61	18.00	1.377	-	-	0.09	0.658	0.906
	LTE Band 66	20M	QPSK	50	0	-	Right Cheek		Ant 4	DSI 2	132322	1745	1	16.61	18.00	1.377	-	-	-0.14	0.525	0.723
	LTE Band 66	20M	QPSK	50	0	-	Right Tilted		Ant 4	DSI 2	132322	1745	1	16.61	18.00	1.377	-	-	-0.19	0.660	0.909
	LTE Band 66	20M	QPSK	50	0	-	Left Cheek		Ant 4	DSI 2	132322	1745	1	16.61	18.00	1.377	-	-	-0.02	0.421	0.580
	LTE Band 66	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 4	DSI 2	132322	1745	1	16.61	18.00	1.377	-	-	-0.11	0.491	0.676
	LTE Band 66	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 4	DSI 2	132072	1720	1	16.55	18.00	1.396	-	-	0.09	0.616	0.860
	LTE Band 66	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 4	DSI 2	132572	1770	1	16.56	18.00	1.393	-	-	0.05	0.635	0.885
	LTE Band 66	20M	QPSK	100	0	-	Right Tilted	0mm	Ant 4	DSI 2	132322	1745	1	16.57	18.00	1.390	-	-	-0.05	0.648	0.901
	LTE Band 66	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	DSI 2	132322	1745	1	22.59	24.00	1.384	-	-	0.14	0.095	0.131
	LTE Band 66C	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	DSI 2	132322+ 132520	1745+ 1764.8	1	22.54	24.00	1.400	-	-	0.07	0.070	0.098
	LTE Band 66	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	DSI 2		1745	1	22.59	24.00	1.384	-	-	-0.05	0.010	0.014
\vdash	LTE Band 66	20M	QPSK	1	0	-	Left Cheek		Ant 0	DSI 2		1745	1	22.59	24.00	1.384	_	-	-0.06	0.045	0.062
	LTE Band 66	20M	QPSK	1	0	-	Left Tilted					1745	1	22.59		1.384	-	-	0.13	0.043	0.002
	LIE Dang 00	ZUIVI	Uron	1	U	-	Len Tined	OHIM	Ant 0	2 ופט	132322	1740	ı	22.59	24.00	1.384	_	-	0.13	0.007	0.010

Sporton International Inc. (Shenzhen)

TEL: +86-755-86379589 / FAX: +86-755-86379595

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	LTE Band 66	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 0	DSI 2	132322	1745	1	21.58	23.00	1.387	-	-	0.01	0.068	0.094
	LTE Band 66	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 0	DSI 2	132322	1745	1	21.58	23.00	1.387	-	-	0.19	0.007	0.010
	LTE Band 66	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 0	DSI 2	132322	1745	1	21.58	23.00	1.387	-	-	0.14	0.036	0.050
	LTE Band 66	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 0	DSI 2	132322	1745	1	21.58	23.00	1.387	-	-	0.03	0.006	0.008
	FR1 n66	40M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 4	DSI 2	349000	1745	1	16.88	18.00	1.294	-	-	0.18	0.541	0.700
	FR1 n66	40M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 4	DSI 2	349000	1745	1	16.88	18.00	1.294	-	-	0.18	0.683	0.884
	FR1 n66	40M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 4	DSI 2	349000	1745	1	16.88	18.00	1.294	-	-	0.12	0.411	0.532
	FR1 n66	40M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 4	DSI 2	349000	1745	1	16.88	18.00	1.294	-	-	-0.08	0.490	0.634
	FR1 n66	40M	QPSK	108	54	DFT-15	Right Cheek	0mm	Ant 4	DSI 2	349000	1745	1	16.79	18.00	1.321	-	-	-0.11	0.559	0.739
09	FR1 n66	40M	QPSK	108	54	DFT-15	Right Tilted	0mm	Ant 4	DSI 2	349000	1745	1	16.79	18.00	1.321	-	-	-0.15	0.701	0.926
	FR1 n66	40M	QPSK	108	54	DFT-15	Left Cheek	0mm	Ant 4	DSI 2	349000	1745	1	16.79	18.00	1.321	-	-	0.08	0.440	0.581
	FR1 n66	40M	QPSK	108	54	DFT-15	Left Tilted	0mm	Ant 4	DSI 2	349000	1745	1	16.79	18.00	1.321	-	-	-0.13	0.500	0.661
	FR1 n66	40M	QPSK	216	0	DFT-15	Right Tilted	0mm	Ant 4	DSI 2	349000	1745	1	16.67	18.00	1.358	-	-	-0.1	0.643	0.873
	FR1 n66	40M	QPSK	1	1	DFT-15	Right Cheek		Ant 0	DSI 2	349000	1745	1	22.85	24.00	1.303	-	-	-0.13	0.071	0.093
	FR1 n66	40M	QPSK	1	1	DFT-15	Right Tilted	0mm	Ant 0	DSI 2	349000	1745	1	22.85	24.00	1.303	-	-	0.15	0.042	0.055
	FR1 n66	40M	QPSK	1	1	DFT-15	Left Cheek	0mm	Ant 0	DSI 2		1745	1	22.85	24.00	1.303	-	-	0.03	0.044	0.057
	FR1 n66	40M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 0	DSI 2		1745	1	22.85	24.00	1.303	_	-	0.09	0.025	0.033
	FR1 n66	40M	QPSK	108		DFT-15	Right Cheek		Ant 0	DSI 2	349000	1745	1	22.58	24.00	1.387	_	-	-0.11	0.087	0.121
	FR1 n66	40M	QPSK	108		DFT-15	Right Tilted		Ant 0	DSI 2	349000	1745	1	22.58	24.00	1.387	-	-	-0.02	0.045	0.062
	FR1 n66	40M	QPSK	108		DFT-15	Left Cheek	0mm	Ant 0	DSI 2		1745	1	22.58	24.00	1.387	-	-	-0.02	0.054	0.075
	FR1 n66	40M	QPSK	108		DFT-15	Left Tilted	0mm	Ant 0	DSI 2		1745	1	22.58	24.00	1.387	-	_	0.1	0.031	0.043
\vdash	1111100	10101	QI OIN	.00	J-1	DI 1-10	Lon Tilled	VIIIII		1900M		1170	<u> </u>	22.00	£ ₹.00	1.001			J. I	0.001	0.040
10	GSM1900	-				GPRS 2 Tx slots	Right Cheek	0mm	Ant 0	DSI 2	661	1880	1	27.10	28.00	1.230	l _	l .	-0.07	0.187	0.230
-10	GSM1900			_		GPRS 2 Tx slots			Ant 0	DSI 2	661	1880	1	27.10	28.00	1.230	_	_	0.03	0.098	0.121
	GSM1900	_	-	_		GPRS 2 Tx slots		0mm	Ant 0	DSI 2	661	1880	1	27.10	28.00	1.230	-	-	0.03	0.112	0.121
	GSM1900 GSM1900	-	-	-		GPRS 2 Tx slots			Ant 0	DSI 2	661	1880	1	27.10	28.00	1.230	-	-	0.02	0.112	0.138
44		-	-		-	l.		0mm									-				
11	WCDMA II	-	-	-	-	RMC 12.2Kbps			Ant 0	DSI 2	9400	1880	1	22.58	24.00	1.387	-	-	-0.07	0.276	0.383
	WCDMA II	-	-	-	-	•	Right Tilted		Ant 0	DSI 2	9400	1880	1	22.58	24.00	1.387	-	-	-0.03	0.165	0.229
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Left Cheek	0mm	Ant 0	DSI 2	9400	1880	1	22.58	24.00	1.387	-	-	0.15	0.216	0.300
	WCDMA II	-		-	-	RMC 12.2Kbps	Left Tilted	0mm	Ant 0	DSI 2	9400	1880	1	22.58	24.00	1.387	-		80.0	0.228	0.316
	LTE Band 25	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	DSI 2	26340	1880	1	16.94	18.00	1.276	-	-	0.07	0.535	0.683
	LTE Band 25	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	DSI 2	26340	1880	1	16.94	18.00	1.276	-	-	0.04	0.660	0.842
	LTE Band 25	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 4	DSI 2	26340	1880	1	16.94	18.00	1.276	-	-	0.04	0.426	0.544
	LTE Band 25	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 4	DSI 2	26340	1880	1	16.94	18.00	1.276	-	-	0.04	0.492	0.628
12	LTE Band 25	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	DSI 2	26140	1860	1	16.80	18.00	1.318	-	-	-0.15	0.660	0.870
	LTE Band 25	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	DSI 2	26590	1905	1	16.77	18.00	1.327	-	-	0.01	0.643	0.854
	LTE Band 25	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 4	DSI 2	26340	1880	1	16.85	18.00	1.303	-	-	0.06	0.493	0.642
	LTE Band 25	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 4	DSI 2	26340	1880	1	16.85	18.00	1.303	-	-	0.07	0.640	0.834
	LTE Band 25	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 4	DSI 2	26340	1880	1	16.85	18.00	1.303	-	-	-0.05	0.409	0.533
	LTE Band 25	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 4	DSI 2	26340	1880	1	16.85	18.00	1.303	-	-	0.17	0.463	0.603
	LTE Band 25	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 4	DSI 2	26140	1860	1	16.71	18.00	1.346	-		0.09	0.634	0.853
	LTE Band 25	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 4	DSI 2	26590	1905	1	16.73	18.00	1.340	-	-	0.15	0.625	0.837
	LTE Band 25	20M	QPSK	100	0	-	Right Tilted	0mm	Ant 4	DSI 2	26340	1880	1	16.82	18.00	1.312	-	-	-0.1	0.631	0.828
	LTE Band 25	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 0	DSI 2	26340	1880	1	22.55	24.00	1.396	-	-	0.02	0.193	0.269
L	LTE Band 25	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 0	DSI 2	26340	1880	1	22.55	24.00	1.396		-	-0.09	0.117	0.163
L	LTE Band 25	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 0	DSI 2	26340	1880	1	22.55	24.00	1.396		-	0.09	0.144	0.201
	LTE Band 25	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 0	DSI 2	26340	1880	1	22.55	24.00	1.396		-	-0.15	0.157	0.219
	LTE Band 25	20M	QPSK	50	0	-	Right Cheek	0mm	Ant 0	DSI 2	26340	1880	1	21.82	23.00	1.312		-	0.08	0.112	0.147
	LTE Band 25	20M	QPSK	50	0	-	Right Tilted	0mm	Ant 0	DSI 2	26340	1880	1	21.82	23.00	1.312	-	-	0.1	0.073	0.096
	LTE Band 25	20M	QPSK	50	0	-	Left Cheek	0mm	Ant 0	DSI 2	26340	1880	1	21.82	23.00	1.312	-	-	0.16	0.085	0.112
	LTE Band 25	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 0	DSI 2	26340	1880	1	21.82	23.00	1.312	-	-	-0.17	0.089	0.117
	FR1 n2	20M	QPSK	1	1	DFT-15	Right Cheek	0mm	Ant 4	DSI 2	376000	1880	1	16.46	17.50	1.271	-	-	0.16	0.581	0.738
	FR1 n2	20M	QPSK	1	1	DFT-15	Right Tilted		Ant 4		376000	1880	1	16.46	17.50	1.271	-	-	0.18	0.667	0.847
	FR1 n2	20M	QPSK	1	1	DFT-15	Left Cheek	_	Ant 4		376000	1880	1	16.46	17.50	1.271	-	-	-0.15	0.467	0.593
	FR1 n2	20M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 4		376000	1880	1	16.46	17.50	1.271	-	-	0.06	0.499	0.634
	FR1 n2	20M	QPSK	1	1	DFT-15	Right Tilted		Ant 4		372000	1860	1	16.33	17.50	1.309	-	-	-0.16	0.646	0.846
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Sporton International Inc. (Shenzhen)

TEL: +86-755-86379589 / FAX: +86-755-86379595

FCC ID: IHDT56AN1

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FR Fix		FR1 n2	 		1	1	DFT-15	Left Cheek	0mm	Ant 0	DSI 2			1		24.00	1.279	-	-		0.095	0.122
First Research 20M OPSK 50 28 OFF-16 Opst		FR1 n2	20M	QPSK	1	1	DFT-15	Left Tilted	0mm	Ant 0	DSI 2	376000	1880	1	22.93	24.00	1.279	-	-	-0.13	0.111	0.142
FPT 1/2 20M		FR1 n2	20M	QPSK	50	28	DFT-15	Right Cheek	0mm	Ant 0	DSI 2	376000	1880	1	22.85	24.00	1.303	-	-	-0.15	0.145	0.189
FR1 n2		FR1 n2	20M	QPSK	50	28	DFT-15	Right Tilted	0mm	Ant 0	DSI 2	376000	1880	1	22.85	24.00	1.303	-	-	0.01	0.090	0.117
LTE Band 7 20M OPSK 1 0 . Right Cheek Orm Ant 0SI 2 21100 2555 1 22.64 24.00 1.368 . 0.06 0.369 0.300 0.41		FR1 n2	20M	QPSK	50	28	DFT-15	Left Cheek	0mm	Ant 0	DSI 2	376000	1880	1	22.85	24.00	1.303	-	-	-0.18	0.098	0.128
LTE Band 7 20M OPSK 1 0		FR1 n2	20M	QPSK	50	28	DFT-15	Left Tilted	0mm	Ant 0	DSI 2	376000	1880	1	22.85	24.00	1.303	-	-	0.15	0.115	0.150
LTE Band 7 20M OPSK 1 0										:	2600MI	Hz										
LTE Band 7 20M		LTE Band 7	20M	QPSK	1	0	1	Right Cheek	0mm	Ant 1	DSI 2	21100	2535	1	22.64	24.00	1.368	-	1	-0.06	0.369	0.505
LTE Band 7 ZM		LTE Band 7	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	21100	2535	1	22.64	24.00	1.368	-	-	0.07	0.326	0.446
LTE Band 7 20M QPSK 1 0 - Left Titled Dmm Ant Osl 2 21100 2535 1 2245 2400 3.88 - - 0.07 0.038 0.92	14	LTE Band 7	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 2	21100	2535	1	22.64	24.00	1.368	-	-	0.04	0.480	0.657
LTE Band 7 20M		LTE Band 7C	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 1	DSI 2			1	22.60	24.00	1.380	-	-	0.07	0.392	0.541
LTE Band 7 20M QPSK 50 0 - Right Titled Dmn Ant 1 DSI 2 21100 2535 1 22.05 23.00 1.245 0.04 0.237 0.290 LTE Band 7 20M QPSK 50 0 - Right Titled Dmn Ant 1 DSI 2 21100 2535 1 22.05 23.00 1.245 0.05 0.219 0.27 LTE Band 7 20M QPSK 50 0 - Left Cheek Dmn Ant 1 DSI 2 21100 2535 1 22.05 23.00 1.245 0.05 0.219 0.27 LTE Band 7 20M QPSK 50 0 - Left Titled Dmn Ant 1 DSI 2 21100 2535 1 22.05 23.00 1.245 0.05 0.219 0.27 LTE Band 41 20M QPSK 50 0 - Right Cheek Dmn Ant 1 DSI 2 21100 2535 1 22.05 23.00 1.245 0.01 0.103 0.12 LTE Band 41 20M QPSK 1 0 - Right Cheek Dmn Ant 2 DSI 2 2100 2535 1 22.05 23.00 1.245 0.01 0.103 0.12 LTE Band 41 20M QPSK 1 0 - Right Cheek Dmn Ant 2 DSI 2 2100 2535 1 22.05 23.00 1.245 0.01 0.103 0.12 LTE Band 41 20M QPSK 1 0 - Right Cheek Dmn Ant 2 DSI 2 40620 2593 1 17.53 18.00 1.114 62.9 1.006 0.17 0.204 0.22 LTE Band 41 20M QPSK 1 0 - Left Titled Dmn Ant 4 DSI 2 40620 2593 1 17.53 18.00 1.114 62.9 1.006 0.17 0.204 0.22 LTE Band 41 20M QPSK 1 0 - Right Cheek Dmn Ant 4 DSI 2 40620 2593 1 17.53 18.00 1.114 62.9 1.006 0.17 0.204 0.22 LTE Band 41 20M QPSK 1 0 - Right Cheek Dmn Ant 4 DSI 2 40620 2593 1 17.53 18.00 1.114 62.9 1.006 0.10 0.00 0.00 0.00 0.00 0.00 0.0			<u> </u>																			
LTE Band 7 20M OPSK 50 0 - Right Titled 0mm Ant 1 DSI 2 21100 2535 1 22.05 23.00 1.245 - 0.09 0.219 0.27. LTE Band 7 20M OPSK 50 0 - Left Titled 0mm Ant 1 DSI 2 21100 2535 1 22.05 23.00 1.245 - 0.015 0.432 0.33.0 LTE Band 7 20M OPSK 50 0 - Left Titled 0mm Ant 1 DSI 2 21100 2535 1 22.05 23.00 1.245 - 0.015 0.432 0.33.0 LTE Band 41 20M OPSK 1 0 - Right Titled 0mm Ant 4 DSI 2 40620 2593 1 17.53 18.00 1.114 62.9 1.006 0.15 0.669 0.76 LTE Band 41 20M OPSK 1 0 - Right Titled 0mm Ant 4 DSI 2 40620 2593 1 17.53 18.00 1.114 62.9 1.006 0.12 0.626 0.70 LTE Band 41 20M OPSK 1 0 - Left Titled 0mm Ant 4 DSI 2 40620 2593 1 17.53 18.00 1.114 62.9 1.006 0.17 0.204 0.225 LTE Band 41 20M OPSK 1 0 - Left Titled 0mm Ant 4 DSI 2 40620 2593 1 17.53 18.00 1.114 62.9 1.006 0.16 0.256 0.70 LTE Band 41 20M OPSK 1 0 - Right Titled 0mm Ant 4 DSI 2 40620 2593 1 17.53 18.00 1.114 62.9 1.006 0.16 0.256 0.70 LTE Band 41 20M OPSK 1 0 - Right Cheel 0mm Ant 4 DSI 2 40620 2593 1 17.53 18.00 1.114 62.9 1.006 0.16 0.256 0.70 LTE Band 41 20M OPSK 1 0 - Right Cheel 0mm Ant 4 DSI 2 39750 2506 1 17.41 18.00 1.146 62.9 1.006 0.16 0.591 0.68 LTE Band 41 20M OPSK 1 0 - Right Cheel 0mm Ant 4 DSI 2 40630 2593 1 17.36 18.00 1.146 62.9 1.006 0.16 0.591 0.68 LTE Band 41 20M OPSK 1 0 - Right Cheel 0mm Ant 4 DSI 2 40630 2593 1 17.40 18.00 1.146 62.9 1.006 0.16 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.0																						
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LTE Band 41 20M QPSK 1 0 - Right Cheek Omm Ant 4 0S12 4100 2535 1 22.05 23.00 1.245 - 0.06 0.10 0.103 0.12 LTE Band 41 20M QPSK 1 1 0 - Right Cheek Omm Ant 4 0S12 40620 2593 1 17.53 18.00 1.114 62.9 1.006 0.15 0.669 0.75 LTE Band 41 20M QPSK 1 0 - Left Cheek Omm Ant 4 0S12 40620 2593 1 17.53 18.00 1.114 62.9 1.006 0.12 0.628 0.70 LTE Band 41 20M QPSK 1 0 - Left Cheek Omm Ant 4 0S12 40620 2593 1 17.53 18.00 1.114 62.9 1.006 0.17 0.204 0.22 LTE Band 41 20M QPSK 1 0 - Left Titled 0mm Ant 4 0S12 40620 2593 1 17.53 18.00 1.114 62.9 1.006 0.17 0.204 0.22 LTE Band 41 20M QPSK 1 0 - Right Cheek Omm Ant 4 0S12 40620 2593 1 17.53 18.00 1.114 62.9 1.006 0.17 0.204 0.22 LTE Band 41 20M QPSK 1 0 - Right Cheek Omm Ant 4 0S12 40620 2593 1 17.53 18.00 1.114 62.9 1.006 0.16 0.233 0.26 LTE Band 41 20M QPSK 1 0 - Right Cheek Omm Ant 4 0S12 40850 2593 1 17.53 18.00 1.114 62.9 1.006 0.16 0.23 0.62 LTE Band 41 20M QPSK 1 0 - Right Cheek Omm Ant 4 0S12 40850 2593 1 17.53 18.00 1.114 62.9 1.006 0.11 0.602 0.69 LTE Band 41 20M QPSK 1 0 - Right Cheek Omm Ant 4 0S12 40850 2593 1 17.36 18.00 1.114 62.9 1.006 0.01 0.602 0.69 LTE Band 41 20M QPSK 1 0 - Right Cheek Omm Ant 4 0S12 40850 2593 1 17.36 18.00 1.159 62.9 1.006 0.01 0.602 0.69 LTE Band 41 20M QPSK 1 0 - Right Titled Omm Ant 4 0S12 40850 2593 1 17.44 18.00 1.146 62.9 1.006 0.06 0.66 0.72 0.78 LTE Band 41 20M QPSK 1 0 - Right Titled Omm Ant 4 0S12 40850 2593 1 17.49 18.00 1.143 62.9 1.006 0.06 0.68 0.62 0.64 LTE Band 41 20M QPSK 50 0 - Right Titled Omm Ant 4 0S12 40850 2593 1 17.49 18.00 1.145 62.9 1.006 0.04 0.65 0.65 0.64 LTE Band 41 20M QPSK 50 0 - Right Titled Omm Ant 4 0S12 40850 2593 1 17.49 18.00 1.125 62.9 1.006 0.04 0.65 0.65 0.64 LTE Band 41 20M QPSK 50 0 - Right Titled Omm Ant 4 0S12 40850 2593 1 17.49 18.00 1.125 62.9 1.006 0.04 0.65 0.65 0.64 LTE Band 41 20M QPSK 50 0 - Right Titled Omm Ant 4 0S12 40850 2593 1 17.49 18.00 1.125 62.9 1.006 0.04 0.65 0.65 0.64 LTE Band 41 20M QPSK 50 0 - Right Titled Omm Ant 4 0S12 40850 2593 1 17.49 18.00							-	_														
LTE Band 41 20M OPSK 1 0 - Right Cheek 0mm Ant 4 DSI 2 40620 2593 1 17.53 18.00 1.114 62.9 1.006 0.15 0.669 0.75							-															
LTE Band 41 20M QPSK 1 0 - Right Titled 0mm Ant 4 DSI 2 40620 2593 1 17.53 18.00 1.114 82.9 1.006 0.12 0.626 0.70 LTE Band 41 20M QPSK 1 0 - Left Cheek 0mm Ant 4 DSI 2 40620 2593 1 17.53 18.00 1.114 62.9 1.006 0.17 0.204 0.22 LTE Band 41 20M QPSK 1 0 - Right Cheek 0mm Ant 4 DSI 2 40620 2593 1 17.53 18.00 1.114 62.9 1.006 0.16 0.233 0.26 LTE Band 41 20M QPSK 1 0 - Right Cheek 0mm Ant 4 DSI 2 39750 2500 1 17.41 18.00 1.146 62.9 1.006 0.16 0.033 0.26 LTE Band 41 20M QPSK 1 0 - Right Cheek 0mm Ant 4 DSI 2 40165 2549.5 1 17.42 18.00 1.146 62.9 1.006 0.01 0.602 0.693 IS LTE Band 41 20M QPSK 1 0 - Right Cheek 0mm Ant 4 DSI 2 41055 2549.5 1 17.42 18.00 1.143 62.9 1.006 0.01 0.602 0.693 LTE Band 41 20M QPSK 1 0 - Right Cheek 0mm Ant 4 DSI 2 41055 2549.5 1 17.42 18.00 1.143 62.9 1.006 0.01 0.602 0.693 LTE Band 41 20M QPSK 1 0 - Right Titled 0mm Ant 4 DSI 2 41055 2549.5 1 17.42 18.00 1.143 62.9 1.006 0.18 0.675 0.794 LTE Band 41 20M QPSK 1 0 - Right Titled 0mm Ant 4 DSI 2 41055 2549.5 1 17.42 18.00 1.146 62.9 1.006 0.18 0.675 0.794 LTE Band 41 20M QPSK 1 0 - Right Titled 0mm Ant 4 DSI 2 40185 2549.5 1 17.42 18.00 1.146 62.9 1.006 0.08 0.680 0.675 0.794 LTE Band 41 20M QPSK 1 0 - Right Titled 0mm Ant 4 DSI 2 40185 2549.5 1 17.42 18.00 1.146 62.9 1.006 0.08 0.6675 0.794 LTE Band 41 20M QPSK 1 0 - Right Titled 0mm Ant 4 DSI 2 40185 2549.5 1 17.42 18.00 1.146 62.9 1.006 0.08 0.667 0.784 LTE Band 41 20M QPSK 5 0 0 - Right Titled 0mm Ant 4 DSI 2 40185 2549.5 1 17.42 18.00 1.156 62.9 1.006 0.06 0.672 0.784 LTE Band 41 20M QPSK 5 0 0 - Right Titled 0mm Ant 4 DSI 2 40620 2593 1 17.49 18.00 1.125 62.9 1.006 0.06 0.672 0.784 LTE Band 41 20M QPSK 5 0 0 - Right Titled 0mm Ant 4 DSI 2 40620 2593 1 17.49 18.00 1.125 62.9 1.006 0.00 0.05 0.630 0.744 LTE Band 41 20M QPSK 5 0 0 - Right Titled 0mm Ant 4 DSI 2 40620 2593 1 17.49 18.00 1.125 62.9 1.006 0.00 0.05 0.630 0.744 LTE Band 41 20M QPSK 5 0 0 - Right Titled 0mm Ant 4 DSI 2 40620 2593 1 17.49 18.00 1.125 62.9 1.006 0.00 0.05 0.630 0.744 LTE Band 41 20M QPSK 5 0 0 - Rig	<u> </u>	LTE Band 7	20M	QPSK	50	0	-	Left Tilted	0mm	Ant 1	DSI 2	21100	2535	1	22.05	23.00	1.245		-	-0.01	0.103	0.128
LTE Band 41 20M QPSK 1 0 - Left Cheek 0mm Ant 4 DSI 2 40620 2593 1 17.53 18.00 1.114 62.9 1.006 0.17 0.204 0.22 LTE Band 41 20M QPSK 1 0 - Left Titled 0mm Ant 4 DSI 2 40620 2593 1 17.53 18.00 1.114 62.9 1.006 0.16 0.233 0.26 LTE Band 41 20M QPSK 1 0 - Right Cheek 0mm Ant 4 DSI 2 40620 2593 1 17.53 18.00 1.114 62.9 1.006 0.18 0.591 0.68 LTE Band 41 20M QPSK 1 0 - Right Cheek 0mm Ant 4 DSI 2 40630 2593 1 17.53 18.00 1.143 62.9 1.006 0.18 0.591 0.68 LTE Band 41 20M QPSK 1 0 - Right Cheek 0mm Ant 4 DSI 2 40630 2593 1 17.53 18.00 1.126 62.9 1.006 0.18 0.591 0.68 LTE Band 41 20M QPSK 1 0 - Right Cheek 0mm Ant 4 DSI 2 40630 2593 1 17.53 18.00 1.126 62.9 1.006 0.18 0.675 0.79 LTE Band 41 20M QPSK 1 0 - Right Titled 0mm Ant 4 DSI 2 41690 2680 1 17.31 18.00 1.127 62.9 1.006 0.18 0.675 0.79 LTE Band 41 20M QPSK 1 0 - Right Titled 0mm Ant 4 DSI 2 41690 2680 1 17.34 18.00 1.126 62.9 1.006 0.14 0.652 0.633 LTE Band 41 20M QPSK 1 0 - Right Titled 0mm Ant 4 DSI 2 41690 2680 1 17.36 18.00 1.126 62.9 1.006 0.06 0.672 0.78 LTE Band 41 20M QPSK 1 0 - Right Titled 0mm Ant 4 DSI 2 41690 2680 1 17.36 18.00 1.126 62.9 1.006 0.06 0.652 0.48 LTE Band 41 20M QPSK 1 0 - Right Titled 0mm Ant 4 DSI 2 41690 2680 1 17.36 18.00 1.126 62.9 1.006 0.06 0.652 0.48 LTE Band 41 20M QPSK 5 0 0 - Right Titled 0mm Ant 4 DSI 2 41690 2680 1 17.36 18.00 1.159 62.9 1.006 0.06 0.652 0.48 LTE Band 41 20M QPSK 5 0 0 - Right Titled 0mm Ant 4 DSI 2 41690 2680 1 17.36 18.00 1.125 62.9 1.006 0.06 0.654 0.74 LTE Band 41 20M QPSK 50 0 - Right Titled 0mm Ant 4 DSI 2 41690 2680 1 17.39 18.00 1.125 62.9 1.006 0.05 0.630 0.74 LTE Band 41 20M QPSK 50 0 - Right Titled 0mm Ant 4 DSI 2 40620 2593 1 17.49 18.00 1.125 62.9 1.006 0.04 0.054 0.654 0.74 LTE Band 41 20M QPSK 50 0 - Right Cheek 0mm Ant 4 DSI 2 40620 2593 1 17.49 18.00 1.125 62.9 1.006 0.04 0.058 0.78 LTE Band 41 20M QPSK 50 0 - Right Cheek 0mm Ant 4 DSI 2 40620 2593 1 17.49 18.00 1.125 62.9 1.006 0.01 0.05 0.058 0.656 LTE Band 41 20M QPSK 50 0 - Right Cheek 0mm Ant 4 DSI 2 40620		LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	DSI 2	40620	2593	1	17.53	18.00	1.114	62.9	1.006	-0.15	0.669	0.750
LTE Band 41 20M QPSK 1 0 - Left Tilted Dmm Ant 4 DSI 2 40620 2593 1 17.53 18.00 1.14 62.9 1.006 0.16 0.233 0.26 LTE Band 41 20M QPSK 1 0 - Right Cheek Dmm Ant 4 DSI 2 40680 2593 1 17.41 18.00 1.146 62.9 1.006 0.18 0.591 0.68 LTE Band 41 20M QPSK 1 0 - Right Cheek Dmm Ant 4 DSI 2 40685 2549.5 1 17.36 18.00 1.146 62.9 1.006 0.11 0.720 0.83 LTE Band 41 20M QPSK 1 0 - Right Cheek Dmm Ant 4 DSI 2 41055 2636.5 1 17.36 18.00 1.159 62.9 1.006 0.18 0.552 0.39 LTE Band 41 20M QPSK 1 0 - Right Cheek Dmm Ant 4 DSI 2 41055 2636.5 1 17.31 18.00 1.172 62.9 1.006 0.18 0.552 0.39 LTE Band 41 20M QPSK 1 0 - Right Cheek Dmm Ant 4 DSI 2 41055 2636.5 1 17.31 18.00 1.172 62.9 1.006 0.18 0.552 0.39 LTE Band 41 20M QPSK 1 0 - Right Cheek Dmm Ant 4 DSI 2 41055 2636.5 1 17.31 18.00 1.146 62.9 1.006 0.18 0.552 0.63 LTE Band 41 20M QPSK 1 0 - Right Cheek Dmm Ant 4 DSI 2 41055 2636.5 1 17.31 18.00 1.146 62.9 1.006 0.18 0.552 0.63 LTE Band 41 20M QPSK 1 0 - Right Cheek Dmm Ant 4 DSI 2 41055 2636.5 1 17.31 18.00 1.146 62.9 1.006 0.06 0.662 0.644 LTE Band 41 20M QPSK 1 0 - Right Cheek Dmm Ant 4 DSI 2 41055 2636.5 1 17.31 18.00 1.145 62.9 1.006 0.06 0.662 0.644 LTE Band 41 20M QPSK 50 0 - Right Cheek Dmm Ant 4 DSI 2 41055 2636.5 1 17.31 18.00 1.156 62.9 1.006 0.06 0.662 0.644 LTE Band 41 20M QPSK 50 0 - Right Cheek Dmm Ant 4 DSI 2 40620 2593 1 17.49 18.00 1.125 62.9 1.006 0.04 0.654 0.744 LTE Band 41 20M QPSK 50 0 - Left Cheek Dmm Ant 4 DSI 2 40620 2593 1 17.49 18.00 1.125 62.9 1.006 0.04 0.654 0.744 LTE Band 41 20M QPSK 50 0 - Right Cheek Dmm Ant 4 DSI 2 40620 2593 1 17.49 18.00 1.125 62.9 1.006 0.04 0.578 0.672 LTE Band 41 20M QPSK 50 0 - Right Cheek Dmm Ant 4 DSI 2 40620 2593 1 17.49 18.00 1.125 62.9 1.006 0.04 0.578 0.672 LTE Band 41 20M QPSK 50 0 - Right Cheek Dmm Ant 4 DSI 2 40620 2593 1 17.49 18.00 1.125 62.9 1.006 0.04 0.578 0.672 LTE Band 41 20M QPSK 50 0 - Right Cheek Dmm Ant 4 DSI 2 40620 2593 1 17.49 18.00 1.125 62.9 1.006 0.04 0.578 0.672 LTE Band 41 20M QPSK 50 0 - Right Cheek Dmm Ant 4 DSI 2 40620 2593 1 17.49 1		LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	DSI 2	40620	2593	1	17.53	18.00	1.114	62.9	1.006	0.12	0.626	0.702
LTE Band 41 20M QPSK 1 0 - Right Cheek Qmm Ant 4 DSI 2 39750 2506 1 17.41 18.00 1.146 62.9 1.006 0.18 0.591 0.68 LTE Band 41 20M QPSK 1 0 - Right Cheek Qmm Ant 4 DSI 2 41055 2549.5 1 17.36 18.00 1.143 62.9 1.006 0.01 0.602 0.698 15 LTE Band 41 20M QPSK 1 0 - Right Cheek Qmm Ant 4 DSI 2 41055 2549.5 1 17.36 18.00 1.143 62.9 1.006 0.01 0.602 0.698 LTE Band 41 20M QPSK 1 0 - Right Cheek Qmm Ant 4 DSI 2 41055 2549.5 1 17.36 18.00 1.159 62.9 1.006 0.01 0.602 0.698 LTE Band 41 20M QPSK 1 0 - Right Titled Qmm Ant 4 DSI 2 4105 2549.5 1 17.41 18.00 1.146 62.9 1.006 0.18 0.675 0.799 LTE Band 41 20M QPSK 1 0 - Right Titled Qmm Ant 4 DSI 2 39750 2506 1 17.41 18.00 1.146 62.9 1.006 0.14 0.552 0.633 LTE Band 41 20M QPSK 1 0 - Right Titled Qmm Ant 4 DSI 2 4105 2549.5 1 17.42 18.00 1.143 62.9 1.006 0.08 0.562 0.648 LTE Band 41 20M QPSK 1 0 - Right Titled Qmm Ant 4 DSI 2 4105 2549.5 1 17.36 18.00 1.145 62.9 1.006 0.06 0.672 0.788 LTE Band 41 20M QPSK 1 0 - Right Titled Qmm Ant 4 DSI 2 4105 2549.5 1 17.36 18.00 1.159 62.9 1.006 0.06 0.672 0.788 LTE Band 41 20M QPSK 50 0 - Right Titled Qmm Ant 4 DSI 2 40620 2593 1 17.49 18.00 1.152 62.9 1.006 0.05 0.053 0.744 LTE Band 41 20M QPSK 50 0 - Right Titled Qmm Ant 4 DSI 2 40620 2593 1 17.49 18.00 1.125 62.9 1.006 0.04 0.654 0.744 LTE Band 41 20M QPSK 50 0 - Left Cheek Qmm Ant 4 DSI 2 40620 2593 1 17.49 18.00 1.125 62.9 1.006 0.04 0.654 0.654 LTE Band 41 20M QPSK 50 0 - Left Titled Qmm Ant 4 DSI 2 40620 2593 1 17.49 18.00 1.125 62.9 1.006 0.03 0.199 0.254 LTE Band 41 20M QPSK 50 0 - Left Titled Qmm Ant 4 DSI 2 40620 2593 1 17.49 18.00 1.125 62.9 1.006 0.03 0.199 0.254 LTE Band 41 20M QPSK 50 0 - Right Cheek Qmm Ant 4 DSI 2 40620 2593 1 17.49 18.00 1.125 62.9 1.006 0.04 0.578 0.677 LTE Band 41 20M QPSK 50 0 - Right Cheek Qmm Ant 4 DSI 2 40620 2593 1 17.49 18.00 1.125 62.9 1.006 0.04 0.54 0.578 LTE Band 41 20M QPSK 50 0 - Right Cheek Qmm Ant 4 DSI 2 40620 2593 1 17.49 18.00 1.125 62.9 1.006 0.04 0.04 0.578 0.677 LTE Band 41 20M QPSK 50 0 - Right Cheek Qmm Ant 4 DSI 2 40620		LTE Band 41	20M	QPSK	1	0	-	Left Cheek	0mm	Ant 4	DSI 2	40620	2593	1	17.53	18.00	1.114	62.9	1.006	0.17	0.204	0.229
LTE Band 41 20M QPSK 1 0 0 - Right Cheek 0mm Ant 4 DSI 2 40185 2549.5 1 17.42 18.00 1.143 62.9 1.006 0.01 0.602 0.689. 15 LTE Band 41 20M QPSK 1 0 0 - Right Cheek 0mm Ant 4 DSI 2 41055 2636.5 1 17.36 18.00 1.159 62.9 1.006 0.18 0.675 0.798 LTE Band 41 20M QPSK 1 0 - Right Titled 0mm Ant 4 DSI 2 41490 2680 1 17.31 18.00 1.172 62.9 1.006 0.18 0.652 0.638 LTE Band 41 20M QPSK 1 0 - Right Titled 0mm Ant 4 DSI 2 41490 2680 1 17.31 18.00 1.172 62.9 1.006 0.14 0.552 0.638 LTE Band 41 20M QPSK 1 0 - Right Titled 0mm Ant 4 DSI 2 40185 2549.5 1 17.42 18.00 1.143 62.9 1.006 0.08 0.662 0.644 LTE Band 41 20M QPSK 1 0 - Right Titled 0mm Ant 4 DSI 2 40185 2549.5 1 17.42 18.00 1.143 62.9 1.006 0.08 0.662 0.644 LTE Band 41 20M QPSK 1 0 - Right Titled 0mm Ant 4 DSI 2 40185 2549.5 1 17.36 18.00 1.125 62.9 1.006 0.06 0.672 0.783 LTE Band 41 20M QPSK 1 0 - Right Titled 0mm Ant 4 DSI 2 40185 2549.5 1 17.36 18.00 1.125 62.9 1.006 0.06 0.672 0.783 LTE Band 41 20M QPSK 5 0 0 - Right Titled 0mm Ant 4 DSI 2 40620 2593 1 17.49 18.00 1.125 62.9 1.006 0.06 0.672 0.783 LTE Band 41 20M QPSK 50 0 - Right Titled 0mm Ant 4 DSI 2 40620 2593 1 17.49 18.00 1.125 62.9 1.006 0.04 0.654 0.744 LTE Band 41 20M QPSK 50 0 - Left Cheek 0mm Ant 4 DSI 2 40620 2593 1 17.49 18.00 1.125 62.9 1.006 0.04 0.654 0.654 LTE Band 41 20M QPSK 50 0 - Left Cheek 0mm Ant 4 DSI 2 40620 2593 1 17.49 18.00 1.125 62.9 1.006 0.04 0.654 0.654 LTE Band 41 20M QPSK 50 0 - Right Cheek 0mm Ant 4 DSI 2 40620 2593 1 17.49 18.00 1.125 62.9 1.006 0.04 0.654 0.654 LTE Band 41 20M QPSK 50 0 - Right Cheek 0mm Ant 4 DSI 2 40620 2593 1 17.49 18.00 1.125 62.9 1.006 0.04 0.744 LTE Band 41 20M QPSK 50 0 - Right Cheek 0mm Ant 4 DSI 2 40620 2593 1 17.49 18.00 1.125 62.9 1.006 0.04 0.794 LTE Band 41 20M QPSK 50 0 - Right Cheek 0mm Ant 4 DSI 2 40620 2593 1 17.49 18.00 1.125 62.9 1.006 0.01 0.058 0.588 LTE Band 41 20M QPSK 50 0 - Right Cheek 0mm Ant 4 DSI 2 40620 2593 1 17.49 18.00 1.125 62.9 1.006 0.01 0.058 0.588 LTE Band 41 20M QPSK 50 0 - Right Cheek 0mm Ant 4 DSI 2 40620 2593		LTE Band 41	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 4	DSI 2	40620	2593	1	17.53	18.00	1.114	62.9	1.006	-0.16	0.233	0.261
To The Band 41 20M QPSK 1 0 - Right Cheek Omm Ant 4 DSI 2 41055 2636.5 1 17.36 18.00 1.159 62.9 1.006 0.11 0.720 0.83		LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	DSI 2	39750	2506	1	17.41	18.00	1.146	62.9	1.006	0.18	0.591	0.681
LTE Band 41 20M QPSK 1 0 - Right Cheek 0mm Ant 4 DSI 2 41490 2680 1 17.31 18.00 1.172 62.9 1.006 0.18 0.675 0.79 LTE Band 41 20M QPSK 1 0 0 - Right Tilted 0mm Ant 4 DSI 2 39750 2506 1 17.41 18.00 1.146 62.9 1.006 0.04 0.552 0.634 LTE Band 41 20M QPSK 1 0 0 - Right Tilted 0mm Ant 4 DSI 2 40185 2549.5 1 17.42 18.00 1.143 62.9 1.006 0.08 0.662 0.644 LTE Band 41 20M QPSK 1 0 0 - Right Tilted 0mm Ant 4 DSI 2 40185 2549.5 1 17.42 18.00 1.143 62.9 1.006 0.06 0.06 0.06 0.072 0.726 LTE Band 41 20M QPSK 1 0 0 - Right Tilted 0mm Ant 4 DSI 2 40185 2549.5 1 17.49 18.00 1.156 62.9 1.006 0.05 0.05 0.630 0.74 LTE Band 41 20M QPSK 50 0 - Right Tilted 0mm Ant 4 DSI 2 40620 2593 1 17.49 18.00 1.125 62.9 1.006 0.05 0.05 0.630 0.74 LTE Band 41 20M QPSK 50 0 - Right Tilted 0mm Ant 4 DSI 2 40620 2593 1 17.49 18.00 1.125 62.9 1.006 0.04 0.654 0.69 LTE Band 41 20M QPSK 50 0 - Left Tilted 0mm Ant 4 DSI 2 40620 2593 1 17.49 18.00 1.125 62.9 1.006 0.01 0.05 0.630 LTE Band 41 20M QPSK 50 0 - Left Tilted 0mm Ant 4 DSI 2 40620 2593 1 17.49 18.00 1.125 62.9 1.006 0.01 0.05 0.630 LTE Band 41 20M QPSK 50 0 - Left Tilted 0mm Ant 4 DSI 2 40620 2593 1 17.49 18.00 1.125 62.9 1.006 0.01 0.05 0.630 LTE Band 41 20M QPSK 50 0 - Right Cheek 0mm Ant 4 DSI 2 40620 2593 1 17.49 18.00 1.125 62.9 1.006 0.01 0.02 0.612 LTE Band 41 20M QPSK 50 0 - Right Cheek 0mm Ant 4 DSI 2 40620 2593 1 17.49 18.00 1.125 62.9 1.006 0.04 0.578 LTE Band 41 20M QPSK 50 0 - Right Cheek 0mm Ant 4 DSI 2 40620 2593 1 17.49 18.00 1.125 62.9 1.006 0.04 0.578 0.673 LTE Band 41 20M QPSK 50 0 - Right Cheek 0mm Ant 4 DSI 2 40620 2593 1 17.49 18.00 1.125 62.9 1.006 0.04 0.578 0.673 LTE Band 41 20M QPSK 50 0 - Right Cheek 0mm Ant 4 DSI 2 40620 2593 1 17.49 18.00 1.176 62.9 1.006 0.04 0.578 0.673 LTE Band 41 20M QPSK 50 0 - Right Tilted 0mm Ant 4 DSI 2 40620 2593 1 17.49 18.00 1.176 62.9 1.006 0.01 0.657 0.783 LTE Band 41 20M QPSK 50 0 - Right Tilted 0mm Ant 4 DSI 2 40620 2593 1 17.49 18.00 1.176 62.9 1.006 0.01 0.657 0.783 LTE Band 41 20M QPSK 50 0 - Right Tilted 0mm Ant 4		LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	DSI 2	40185	2549.5	1	17.42	18.00	1.143	62.9	1.006	0.01	0.602	0.692
LTE Band 41 20M QPSK 1 0 - Right Tilted 0mm Ant 4 DSI 2 39750 2506 1 17.41 18.00 1.146 62.9 1.006 0.14 0.552 0.634 LTE Band 41 20M QPSK 1 0 - Right Tilted 0mm Ant 4 DSI 2 40185 2549.5 1 17.42 18.00 1.143 62.9 1.006 0.08 0.562 0.644 LTE Band 41 20M QPSK 1 0 - Right Tilted 0mm Ant 4 DSI 2 41055 2636.5 1 17.36 18.00 1.159 62.9 1.006 0.06 0.672 0.78 LTE Band 41 20M QPSK 1 0 - Right Tilted 0mm Ant 4 DSI 2 41055 2636.5 1 17.36 18.00 1.159 62.9 1.006 0.06 0.672 0.78 LTE Band 41 20M QPSK 50 0 - Right Cheek 0mm Ant 4 DSI 2 40620 2593 1 17.49 18.00 1.125 62.9 1.006 0.04 0.654 0.74 LTE Band 41 20M QPSK 50 0 - Left Cheek 0mm Ant 4 DSI 2 40620 2593 1 17.49 18.00 1.125 62.9 1.006 0.03 0.199 0.22 LTE Band 41 20M QPSK 50 0 - Left Cheek 0mm Ant 4 DSI 2 40620 2593 1 17.49 18.00 1.125 62.9 1.006 0.03 0.199 0.22 LTE Band 41 20M QPSK 50 0 - Left Cheek 0mm Ant 4 DSI 2 40620 2593 1 17.49 18.00 1.125 62.9 1.006 0.03 0.199 0.22 LTE Band 41 20M QPSK 50 0 - Right Cheek 0mm Ant 4 DSI 2 40620 2593 1 17.49 18.00 1.125 62.9 1.006 0.03 0.199 0.22 LTE Band 41 20M QPSK 50 0 - Right Cheek 0mm Ant 4 DSI 2 40620 2593 1 17.49 18.00 1.125 62.9 1.006 0.04 0.578 0.673 LTE Band 41 20M QPSK 50 0 - Right Cheek 0mm Ant 4 DSI 2 40620 2593 1 17.49 18.00 1.125 62.9 1.006 0.04 0.578 0.673 LTE Band 41 20M QPSK 50 0 - Right Cheek 0mm Ant 4 DSI 2 40620 2593 1 17.49 18.00 1.125 62.9 1.006 0.04 0.578 0.673 LTE Band 41 20M QPSK 50 0 - Right Cheek 0mm Ant 4 DSI 2 40620 2593 1 17.49 18.00 1.125 62.9 1.006 0.04 0.578 0.673 LTE Band 41 20M QPSK 50 0 - Right Cheek 0mm Ant 4 DSI 2 41065 2549.5 1 17.48 18.00 1.175 62.9 1.006 0.01 0.588 0.663 LTE Band 41 20M QPSK 50 0 - Right Cheek 0mm Ant 4 DSI 2 41065 2549.5 1 17.48 18.00 1.175 62.9 1.006 0.01 0.589 0.623 LTE Band 41 20M QPSK 50 0 - Right Tilted 0mm Ant 4 DSI 2 41065 2549.5 1 17.48 18.00 1.175 62.9 1.006 0.01 0.660 0.78 LTE Band 41 20M QPSK 50 0 - Right Tilted 0mm Ant 4 DSI 2 41065 2549.5 1 17.48 18.00 1.175 62.9 1.006 0.01 0.660 0.78 LTE Band 41 20M QPSK 50 0 - Right Tilted 0mm Ant 4 DS	15	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	DSI 2	41055	2636.5	1	17.36	18.00	1.159	62.9	1.006	-0.11	0.720	0.839
LTE Band 41 20M QPSK 1 0 - Right Tilted 0mm Ant 4 DSI 2 40185 2549.5 1 17.42 18.00 1.143 62.9 1.006 0.08 0.562 0.544 LTE Band 41 20M QPSK 1 0 - Right Tilted 0mm Ant 4 DSI 2 41055 2636.5 1 17.36 18.00 1.159 62.9 1.006 0.06 0.672 0.785 LTE Band 41 20M QPSK 1 0 - Right Tilted 0mm Ant 4 DSI 2 41490 2680 1 17.31 18.00 1.172 62.9 1.006 0.05 0.630 0.745 LTE Band 41 20M QPSK 50 0 - Right Tilted 0mm Ant 4 DSI 2 40620 2593 1 17.49 18.00 1.125 62.9 1.006 0.05 0.630 0.745 LTE Band 41 20M QPSK 50 0 - Right Tilted 0mm Ant 4 DSI 2 40620 2593 1 17.49 18.00 1.125 62.9 1.006 0.03 0.199 0.225 LTE Band 41 20M QPSK 50 0 - Left Tilted 0mm Ant 4 DSI 2 40620 2593 1 17.49 18.00 1.125 62.9 1.006 0.03 0.199 0.225 LTE Band 41 20M QPSK 50 0 - Left Tilted 0mm Ant 4 DSI 2 40620 2593 1 17.49 18.00 1.125 62.9 1.006 0.03 0.199 0.225 LTE Band 41 20M QPSK 50 0 - Right Cheek 0mm Ant 4 DSI 2 40620 2593 1 17.49 18.00 1.125 62.9 1.006 0.14 0.228 0.256 LTE Band 41 20M QPSK 50 0 - Right Cheek 0mm Ant 4 DSI 2 40620 2593 1 17.49 18.00 1.125 62.9 1.006 0.14 0.228 0.256 LTE Band 41 20M QPSK 50 0 - Right Cheek 0mm Ant 4 DSI 2 40620 2593 1 17.49 18.00 1.125 62.9 1.006 0.03 0.199 0.225 LTE Band 41 20M QPSK 50 0 - Right Cheek 0mm Ant 4 DSI 2 40620 2593 1 17.49 18.00 1.125 62.9 1.006 0.04 0.578 0.657 LTE Band 41 20M QPSK 50 0 - Right Cheek 0mm Ant 4 DSI 2 40620 2593 1 17.49 18.00 1.125 62.9 1.006 0.03 0.199 0.225 LTE Band 41 20M QPSK 50 0 - Right Cheek 0mm Ant 4 DSI 2 40680 259.5 1 17.48 18.00 1.127 62.9 1.006 0.01 0.588 0.666 LTE Band 41 20M QPSK 50 0 - Right Tilted 0mm Ant 4 DSI 2 40680 259.5 1 17.48 18.00 1.127 62.9 1.006 0.01 0.589 0.662 LTE Band 41 20M QPSK 50 0 - Right Tilted 0mm Ant 4 DSI 2 40680 1 17.37 18.00 1.176 62.9 1.006 0.01 0.660 0.780 0.670 0.670 0.670 0.670 0.670 0.670 0.670 0.670 0.670 0.670 0.670 0.670 0.670 0.670 0.670 0.670 0.670 0.670 0.670 0.670 0.670 0.670 0.670 0.670 0.670 0.670 0.670 0.670 0.670 0.670 0.670 0.670 0.670 0.670 0.670 0.670 0.670 0.670 0.670 0.670 0.670 0.670 0.670 0.670 0.670 0.670 0.670 0.670		LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 4	DSI 2	41490	2680	1	17.31	18.00	1.172	62.9	1.006	0.18	0.675	0.796
LTE Band 41 20M		LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	DSI 2	39750	2506	1	17.41	18.00	1.146	62.9	1.006	0.14	0.552	0.636
LTE Band 41 20M QPSK 1 0 - Right Tilted 0mm Ant 4 DSI 2 41490 2680 1 17.31 18.00 1.172 62.9 1.006 0.05 0.630 0.74 LTE Band 41 20M QPSK 50 0 - Right Tilted 0mm Ant 4 DSI 2 40620 2593 1 17.49 18.00 1.125 62.9 1.006 0.04 0.654 0.74 LTE Band 41 20M QPSK 50 0 - Right Tilted 0mm Ant 4 DSI 2 40620 2593 1 17.49 18.00 1.125 62.9 1.006 0.03 0.199 0.228 LTE Band 41 20M QPSK 50 0 - Left Tilted 0mm Ant 4 DSI 2 40620 2593 1 17.49 18.00 1.125 62.9 1.006 0.03 0.199 0.228 LTE Band 41 20M QPSK 50 0 - Right Cheek 0mm Ant 4 DSI 2 40620 2593 1 17.49 18.00 1.125 62.9 1.006 0.04 0.578 0.673 LTE Band 41 20M QPSK 50 0 - Right Cheek 0mm Ant 4 DSI 2 40620 2593 1 17.49 18.00 1.125 62.9 1.006 0.04 0.578 0.673 LTE Band 41 20M QPSK 50 0 - Right Cheek 0mm Ant 4 DSI 2 40620 2593 1 17.49 18.00 1.125 62.9 1.006 0.04 0.578 0.673 LTE Band 41 20M QPSK 50 0 - Right Cheek 0mm Ant 4 DSI 2 40620 2593 1 17.49 18.00 1.125 62.9 1.006 0.04 0.578 0.673 LTE Band 41 20M QPSK 50 0 - Right Cheek 0mm Ant 4 DSI 2 40185 2549.5 1 17.48 18.00 1.176 62.9 1.006 0.04 0.578 0.673 LTE Band 41 20M QPSK 50 0 - Right Cheek 0mm Ant 4 DSI 2 40185 2636.5 1 17.30 18.00 1.176 62.9 1.006 0.02 0.704 0.833 LTE Band 41 20M QPSK 50 0 - Right Tilted 0mm Ant 4 DSI 2 40185 2549.5 1 17.48 18.00 1.178 62.9 1.006 0.01 0.660 0.783 LTE Band 41 20M QPSK 50 0 - Right Tilted 0mm Ant 4 DSI 2 40185 2549.5 1 17.48 18.00 1.178 62.9 1.006 0.01 0.660 0.783 LTE Band 41 20M QPSK 50 0 - Right Tilted 0mm Ant 4 DSI 2 40185 2549.5 1 17.48 18.00 1.178 62.9 1.006 0.01 0.660 0.783 LTE Band 41 20M QPSK 50 0 - Right Tilted 0mm Ant 4 DSI 2 40185 2549.5 1 17.48 18.00 1.178 62.9 1.006 0.01 0.660 0.733 LTE Band 41 20M QPSK 50 0 - Right Tilted 0mm Ant 4 DSI 2 40185 2549.5 1 17.48 18.00 1.178 62.9 1.006 0.01 0.660 0.733 LTE Band 41 20M QPSK 100 0 - Right Tilted 0mm Ant 4 DSI 2 40620 2593 1 17.46 18.00 1.132 62.9 1.006 0.01 0.693 0.633 LTE Band 41 20M QPSK 100 0 - Right Tilted 0mm Ant 4 DSI 2 40620 2593 1 17.46 18.00 1.1245 62.9 1.006 0.01 0.598 0.683 LTE Band 41 20M QPSK 100 0 - Right Tilted 0mm Ant		LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	DSI 2	40185	2549.5	1	17.42	18.00	1.143	62.9	1.006	0.08	0.562	0.646
LTE Band 41 20M QPSK 50 0 - Right Cheek 0mm Ant 4 DSI 2 40620 2593 1 17.49 18.00 1.125 62.9 1.006 -0.04 0.654 0.744 LTE Band 41 20M QPSK 50 0 - Right Titled 0mm Ant 4 DSI 2 40620 2593 1 17.49 18.00 1.125 62.9 1.006 -0.12 0.612 0.693 LTE Band 41 20M QPSK 50 0 - Left Cheek 0mm Ant 4 DSI 2 40620 2593 1 17.49 18.00 1.125 62.9 1.006 0.03 0.199 0.223 LTE Band 41 20M QPSK 50 0 - Left Titled 0mm Ant 4 DSI 2 40620 2593 1 17.49 18.00 1.125 62.9 1.006 0.04 0.578 0.673 LTE Band 41 20M QPSK 50 0 - Right Cheek 0mm Ant 4 DSI 2 40620 2593 1 17.49 18.00 1.125 62.9 1.006 0.04 0.578 0.673 LTE Band 41 20M QPSK 50 0 - Right Cheek 0mm Ant 4 DSI 2 40620 2593 1 17.49 18.00 1.125 62.9 1.006 0.04 0.578 0.673 LTE Band 41 20M QPSK 50 0 - Right Cheek 0mm Ant 4 DSI 2 40680 1 17.37 18.00 1.156 62.9 1.006 0.04 0.578 0.673 LTE Band 41 20M QPSK 50 0 - Right Cheek 0mm Ant 4 DSI 2 41055 2636.5 1 17.30 18.00 1.175 62.9 1.006 0.02 0.704 0.833 LTE Band 41 20M QPSK 50 0 - Right Cheek 0mm Ant 4 DSI 2 41490 2680 1 17.29 18.00 1.176 62.9 1.006 0.01 0.660 0.783 LTE Band 41 20M QPSK 50 0 - Right Titled 0mm Ant 4 DSI 2 40680 1 17.29 18.00 1.176 62.9 1.006 0.01 0.660 0.783 LTE Band 41 20M QPSK 50 0 - Right Titled 0mm Ant 4 DSI 2 40680 1 17.30 18.00 1.156 62.9 1.006 0.07 0.539 0.623 LTE Band 41 20M QPSK 50 0 - Right Titled 0mm Ant 4 DSI 2 40680 1 17.30 18.00 1.156 62.9 1.006 0.01 0.657 0.773 LTE Band 41 20M QPSK 50 0 - Right Titled 0mm Ant 4 DSI 2 40620 2593 1 17.48 18.00 1.175 62.9 1.006 0.01 0.657 0.773 LTE Band 41 20M QPSK 50 0 - Right Titled 0mm Ant 4 DSI 2 40620 2593 1 17.46 18.00 1.132 62.9 1.006 0.01 0.657 0.773 LTE Band 41 20M QPSK 100 0 - Right Titled 0mm Ant 4 DSI 2 40620 2593 1 17.46 18.00 1.132 62.9 1.006 0.01 0.659 0.723 LTE Band 41 20M QPSK 100 0 - Right Titled 0mm Ant 4 DSI 2 40620 2593 1 17.46 18.00 1.132 62.9 1.006 0.01 0.695 0.733 LTE Band 41 20M QPSK 100 0 - Right Titled 0mm Ant 4 DSI 2 40620 2593 1 17.46 18.00 1.125 62.9 1.006 0.07 0.259 0.324 LTE Band 41 20M QPSK 10 0 - Right Titled 0mm Ant 4 DSI 2 40620		LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	DSI 2	41055	2636.5	1	17.36	18.00	1.159	62.9	1.006	-0.06	0.672	0.783
LTE Band 41 20M QPSK 50 0 - Right Tilted 0mm Ant 4 DSI 2 40620 2593 1 17.49 18.00 1.125 62.9 1.006 -0.12 0.612 0.692 LTE Band 41 20M QPSK 50 0 - Left Cheek 0mm Ant 4 DSI 2 40620 2593 1 17.49 18.00 1.125 62.9 1.006 0.03 0.199 0.221 LTE Band 41 20M QPSK 50 0 - Left Tilted 0mm Ant 4 DSI 2 40620 2593 1 17.49 18.00 1.125 62.9 1.006 0.04 0.228 0.251 LTE Band 41 20M QPSK 50 0 - Right Cheek 0mm Ant 4 DSI 2 40620 2593 1 17.49 18.00 1.125 62.9 1.006 0.04 0.578 0.673 LTE Band 41 20M QPSK 50 0 - Right Cheek 0mm Ant 4 DSI 2 40185 2549.5 1 17.48 18.00 1.127 62.9 1.006 0.01 0.588 0.663 LTE Band 41 20M QPSK 50 0 - Right Cheek 0mm Ant 4 DSI 2 41055 2636.5 1 17.30 18.00 1.175 62.9 1.006 0.01 0.02 0.704 0.833 LTE Band 41 20M QPSK 50 0 - Right Cheek 0mm Ant 4 DSI 2 41055 2636.5 1 17.30 18.00 1.176 62.9 1.006 0.01 0.660 0.783 LTE Band 41 20M QPSK 50 0 - Right Tilted 0mm Ant 4 DSI 2 41055 2636.5 1 17.37 18.00 1.156 62.9 1.006 0.01 0.660 0.783 LTE Band 41 20M QPSK 50 0 - Right Tilted 0mm Ant 4 DSI 2 41055 2636.5 1 17.37 18.00 1.156 62.9 1.006 0.01 0.660 0.783 LTE Band 41 20M QPSK 50 0 - Right Tilted 0mm Ant 4 DSI 2 41055 2636.5 1 17.30 18.00 1.156 62.9 1.006 0.01 0.660 0.783 LTE Band 41 20M QPSK 50 0 - Right Tilted 0mm Ant 4 DSI 2 41055 2636.5 1 17.30 18.00 1.156 62.9 1.006 0.01 0.660 0.783 LTE Band 41 20M QPSK 50 0 - Right Tilted 0mm Ant 4 DSI 2 41055 2636.5 1 17.30 18.00 1.156 62.9 1.006 0.01 0.657 0.777 LTE Band 41 20M QPSK 50 0 - Right Tilted 0mm Ant 4 DSI 2 41055 2636.5 1 17.30 18.00 1.175 62.9 1.006 0.01 0.657 0.777 LTE Band 41 20M QPSK 100 0 - Right Tilted 0mm Ant 4 DSI 2 40620 2593 1 17.46 18.00 1.132 62.9 1.006 0.01 0.659 0.623 LTE Band 41 20M QPSK 100 0 - Right Tilted 0mm Ant 4 DSI 2 40620 2593 1 17.46 18.00 1.132 62.9 1.006 0.01 0.598 0.683 LTE Band 41 20M QPSK 1 0 - Right Cheek 0mm Ant 1 DSI 2 40620 2593 1 23.05 24.00 1.245 62.9 1.006 0.07 0.259 0.324 LTE Band 41 20M QPSK 1 0 - Right Cheek 0mm Ant 1 DSI 2 40620 2593 1 23.05 24.00 1.245 62.9 1.006 0.07 0.259 0.324 LTE Band 41 20M QPSK 1 0		LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 4	DSI 2	41490	2680	1	17.31	18.00	1.172	62.9	1.006	-0.05	0.630	0.743
LTE Band 41 20M QPSK 50 0 - Right Tilted 0mm Ant 4 DSI 2 40620 2593 1 17.49 18.00 1.125 62.9 1.006 -0.12 0.612 0.692 LTE Band 41 20M QPSK 50 0 - Left Cheek 0mm Ant 4 DSI 2 40620 2593 1 17.49 18.00 1.125 62.9 1.006 0.03 0.199 0.221 LTE Band 41 20M QPSK 50 0 - Left Tilted 0mm Ant 4 DSI 2 40620 2593 1 17.49 18.00 1.125 62.9 1.006 0.04 0.228 0.251 LTE Band 41 20M QPSK 50 0 - Right Cheek 0mm Ant 4 DSI 2 40620 2593 1 17.49 18.00 1.125 62.9 1.006 0.04 0.578 0.673 LTE Band 41 20M QPSK 50 0 - Right Cheek 0mm Ant 4 DSI 2 40185 2549.5 1 17.48 18.00 1.127 62.9 1.006 0.01 0.588 0.663 LTE Band 41 20M QPSK 50 0 - Right Cheek 0mm Ant 4 DSI 2 41055 2636.5 1 17.30 18.00 1.175 62.9 1.006 0.01 0.02 0.704 0.833 LTE Band 41 20M QPSK 50 0 - Right Cheek 0mm Ant 4 DSI 2 41490 2680 1 17.29 18.00 1.176 62.9 1.006 0.01 0.660 0.783 LTE Band 41 20M QPSK 50 0 - Right Tilted 0mm Ant 4 DSI 2 40185 2549.5 1 17.48 18.00 1.176 62.9 1.006 0.01 0.660 0.783 LTE Band 41 20M QPSK 50 0 - Right Tilted 0mm Ant 4 DSI 2 40185 2549.5 1 17.48 18.00 1.176 62.9 1.006 0.01 0.660 0.783 LTE Band 41 20M QPSK 50 0 - Right Tilted 0mm Ant 4 DSI 2 40185 2549.5 1 17.48 18.00 1.176 62.9 1.006 0.01 0.660 0.783 LTE Band 41 20M QPSK 50 0 - Right Tilted 0mm Ant 4 DSI 2 40185 2549.5 1 17.48 18.00 1.176 62.9 1.006 0.01 0.667 0.777 LTE Band 41 20M QPSK 50 0 - Right Tilted 0mm Ant 4 DSI 2 40185 2549.5 1 17.48 18.00 1.175 62.9 1.006 0.01 0.667 0.777 LTE Band 41 20M QPSK 50 0 - Right Tilted 0mm Ant 4 DSI 2 40185 2549.5 1 17.48 18.00 1.175 62.9 1.006 0.01 0.667 0.777 LTE Band 41 20M QPSK 100 0 - Right Tilted 0mm Ant 4 DSI 2 40620 2593 1 17.46 18.00 1.132 62.9 1.006 0.01 0.669 0.783 LTE Band 41 20M QPSK 1 0 0 - Right Cheek 0mm Ant 4 DSI 2 40620 2593 1 17.46 18.00 1.132 62.9 1.006 0.01 0.598 0.688 LTE Band 41 20M QPSK 1 0 - Right Cheek 0mm Ant 1 DSI 2 40620 2593 1 23.05 24.00 1.245 62.9 1.006 0.07 0.259 0.324 LTE Band 41 20M QPSK 1 0 - Right Cheek 0mm Ant 1 DSI 2 40620 2593 1 23.05 24.00 1.245 62.9 1.006 0.07 0.259 0.324 LTE Band 41 20M QPSK 1 0 - R		LTE Band 41	20M	QPSK	50	0	-	Right Cheek	0mm			40620	2593	1							0.654	0.740
LTE Band 41 20M QPSK 50 0 - Left Cheek 0mm Ant 4 DSI 2 40620 2593 1 17.49 18.00 1.125 62.9 1.006 0.03 0.199 0.225 LTE Band 41 20M QPSK 50 0 - Left Titled 0mm Ant 4 DSI 2 40620 2593 1 17.49 18.00 1.125 62.9 1.006 0.04 0.578 0.675 LTE Band 41 20M QPSK 50 0 - Right Cheek 0mm Ant 4 DSI 2 39750 2506 1 17.37 18.00 1.156 62.9 1.006 -0.04 0.578 0.675 LTE Band 41 20M QPSK 50 0 - Right Cheek 0mm Ant 4 DSI 2 40185 2549.5 1 17.48 18.00 1.127 62.9 1.006 0.02 0.704 0.835 LTE Band 41 20M QPSK 50 0 - Right Cheek 0mm Ant 4 DSI 2 41055 2636.5 1 17.30 18.00 1.175 62.9 1.006 0.02 0.704 0.835 LTE Band 41 20M QPSK 50 0 - Right Cheek 0mm Ant 4 DSI 2 41055 2636.5 1 17.30 18.00 1.175 62.9 1.006 0.02 0.704 0.835 LTE Band 41 20M QPSK 50 0 - Right Titled 0mm Ant 4 DSI 2 41490 2680 1 17.29 18.00 1.176 62.9 1.006 0.02 0.704 0.835 LTE Band 41 20M QPSK 50 0 - Right Titled 0mm Ant 4 DSI 2 39750 2506 1 17.37 18.00 1.156 62.9 1.006 0.07 0.549 0.625 LTE Band 41 20M QPSK 50 0 - Right Titled 0mm Ant 4 DSI 2 40185 2549.5 1 17.48 18.00 1.127 62.9 1.006 0.07 0.549 0.625 LTE Band 41 20M QPSK 50 0 - Right Titled 0mm Ant 4 DSI 2 40185 2549.5 1 17.48 18.00 1.127 62.9 1.006 0.07 0.549 0.625 LTE Band 41 20M QPSK 50 0 - Right Titled 0mm Ant 4 DSI 2 40185 2549.5 1 17.48 18.00 1.127 62.9 1.006 0.07 0.549 0.625 LTE Band 41 20M QPSK 50 0 - Right Titled 0mm Ant 4 DSI 2 40185 2549.5 1 17.48 18.00 1.127 62.9 1.006 0.01 0.657 0.775 LTE Band 41 20M QPSK 50 0 - Right Titled 0mm Ant 4 DSI 2 40620 2593 1 17.46 18.00 1.132 62.9 1.006 0.01 0.657 0.775 LTE Band 41 20M QPSK 100 0 - Right Titled 0mm Ant 4 DSI 2 40620 2593 1 17.46 18.00 1.124 62.9 1.006 0.07 0.259 0.325 LTE Band 41 20M QPSK 1 0 - Right Titled 0mm Ant 1 DSI 2 40620 2593 1 23.05 24.00 1.245 62.9 1.006 0.07 0.259 0.325 LTE Band 41 20M QPSK 1 0 - Right Titled 0mm Ant 1 DSI 2 40620 2593 1 23.05 24.00 1.245 62.9 1.006 0.07 0.259 0.325 LTE Band 41 20M QPSK 1 0 - Right Titled 0mm Ant 1 DSI 2 40620 2593 1 23.05 24.00 1.245 62.9 1.006 0.07 0.259 0.325 LTE Band 41 20M QPSK 1 0 - Right T			!				-	_														0.692
LTE Band 41 20M QPSK 50 0 - Left Tilted 0mm Ant 4 DSI 2 40620 2593 1 17.49 18.00 1.125 62.9 1.006 0.14 0.228 0.256 1 LTE Band 41 20M QPSK 50 0 - Right Cheek 0mm Ant 4 DSI 2 39750 2506 1 17.37 18.00 1.156 62.9 1.006 -0.04 0.578 0.677 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			-				-	_														0.225
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LTE Band 41 20M QPSK 100 0 - Right Cheek 0mm Ant 4 DSI 2 40620 2593 1 17.46 18.00 1.132 62.9 1.006 -0.13 0.639 0.720 LTE Band 41 20M QPSK 100 0 - Right Tilted 0mm Ant 4 DSI 2 40620 2593 1 17.46 18.00 1.132 62.9 1.006 0.19 0.598 0.68 LTE Band 41 20M QPSK 1 0 - Right Cheek 0mm Ant 1 DSI 2 40620 2593 1 23.05 24.00 1.245 62.9 1.006 0 0.317 0.393 LTE Band 41 20M QPSK 1 0 - Right Tilted 0mm Ant 1 DSI 2 40620 2593 1 23.05 24.00 1.245 62.9 1.006 0.07 0.259 0.324 LTE Band 41 20M QPSK 1 0 - Left Cheek 0mm Ant 1 DSI 2 40620 2593 1 23.05 24.00 1.245 62.9 1.006 0.07 0.259 0.324 LTE Band 41 20M QPSK 1 0 - Left Cheek 0mm Ant 1 DSI 2 40620 2593 1 23.05 24.00 1.245 62.9 1.006 -0.08 0.467 0.585	-		!					-														0.777
LTE Band 41 20M QPSK 100 0 - Right Tilted 0mm Ant 4 DSI 2 40620 2593 1 17.46 18.00 1.132 62.9 1.006 0.19 0.598 0.68 LTE Band 41 20M QPSK 1 0 - Right Cheek 0mm Ant 1 DSI 2 40620 2593 1 23.05 24.00 1.245 62.9 1.006 0 0.317 0.39 LTE Band 41 20M QPSK 1 0 - Right Tilted 0mm Ant 1 DSI 2 40620 2593 1 23.05 24.00 1.245 62.9 1.006 0.07 0.259 0.324 LTE Band 41 20M QPSK 1 0 - Left Cheek 0mm Ant 1 DSI 2 40620 2593 1 23.05 24.00 1.245 62.9 1.006 0.08 0.467 0.588	-		 				-	_														0.730
LTE Band 41 20M QPSK 1 0 - Right Cheek 0mm Ant 1 DSI 2 40620 2593 1 23.05 24.00 1.245 62.9 1.006 0 0.317 0.397 LTE Band 41 20M QPSK 1 0 - Right Tilted 0mm Ant 1 DSI 2 40620 2593 1 23.05 24.00 1.245 62.9 1.006 0.07 0.259 0.324 LTE Band 41 20M QPSK 1 0 - Left Cheek 0mm Ant 1 DSI 2 40620 2593 1 23.05 24.00 1.245 62.9 1.006 -0.08 0.467 0.588	<u> </u>		-				-	_	_													0.728
LTE Band 41 20M QPSK 1 0 - Right Tilted 0mm Ant 1 DSI 2 40620 2593 1 23.05 24.00 1.245 62.9 1.006 0.07 0.259 0.324 LTE Band 41 20M QPSK 1 0 - Left Cheek 0mm Ant 1 DSI 2 40620 2593 1 23.05 24.00 1.245 62.9 1.006 -0.08 0.467 0.585		LTE Band 41	20M	QPSK	100	0	-	Right Tilted	0mm	Ant 4	DSI 2	40620	2593	1	17.46	18.00	1.132	62.9	1.006	0.19	0.598	0.681
LTE Band 41 20M QPSK 1 0 - Left Cheek 0mm Ant 1 DSI 2 40620 2593 1 23.05 24.00 1.245 62.9 1.006 -0.08 0.467 0.588		LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0mm	Ant 1	DSI 2	40620	2593	1	23.05	24.00	1.245	62.9	1.006	0	0.317	0.397
		LTE Band 41	20M	QPSK	1	0	-	Right Tilted	0mm	Ant 1	DSI 2	40620	2593	1	23.05	24.00	1.245	62.9	1.006	0.07	0.259	0.324
LTE Band 41 20M QPSK 1 0 - Left Tilted 0mm Ant 1 DSI 2 40620 2593 1 23.05 24.00 1.245 62.9 1.006 -0.01 0.161 0.200		LTE Band 41	20M	QPSK	1	0		Left Cheek	0mm	Ant 1	DSI 2	40620	2593	1	23.05	24.00	1.245	62.9	1.006	-0.08	0.467	0.585
1 1 2 1 2 1 2 1 2 1 2 2 2 2 2 2 2 2 2 2		LTE Band 41	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 1	DSI 2	40620	2593	1	23.05	24.00	1.245	62.9	1.006	-0.01	0.161	0.202

Sporton International Inc. (Shenzhen)

TEL: +86-755-86379589 / FAX: +86-755-86379595

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