



TEST REPORT

Eurofins KCTL Co.,Ltd. 65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea TEL: 82-70-5008-1021 FAX: 82-505-299-8311 www.kctl.co.kr		Report No.: KR25-SPF0005-C Page (1) of (534)	KCTL
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1. Client

- Name : Samsung Electronics Co., Ltd.
- Address : 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Rep. of Korea
- Date of Receipt : 2024-11-11

2. Use of Report : Certification

3. Name of Product and Model : Tablet PC

- Model Name : SM-X356B
- Manufacturer and Country of Origin : Samsung Electronics Co., Ltd. / Vietnam

4. FCC ID : A3LSMX356B

5. Date of Test : 2024-11-22 ~ 2025-03-11

6. Location of Test : ☒ Permanent Testing Lab ☐ On Site Testing
 (Address: 65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea)

7. Test Standards : IEEE 1528-2013, ANSI/IEEE C95.1, KDB Publication

8. Test Results : Refer to the test result in the test report

Affirmation	Tested by	Technical Manager
	Name : Hankyul Jung (Signature)	Name : Jongwon Ma (Signature)

2025-04-07

Eurofins KCTL Co.,Ltd.

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REPORT REVISION HISTORY

Date	Revision	Page No
2025-03-07	Originally issued	-
2025-03-12	Updated -Note related to simultaneous transmission -Bluetooth Target & Conducted Output Power	- 157 Overall
2025-03-14	Delete typo related to LTE Band 41	31
2025-04-07	Revised Bandwidths for NR Band n78	23

Note: The Report No. KR25-SPF0005-B is superseded by the report No. KR25-SPF0005-C

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General remarks for test reports

Statement concerning the uncertainty of the measurement systems used for the tests

(may be required by the product standard or client)

☐ Internal procedure used for type testing through which traceability of the measuring uncertainty has been established:

Procedure number, issue date and title:

Calculations leading to the reported values are on file with the testing laboratory that conducted the testing.

☒ Statement not required by the standard or client used for type testing

1. Identification when information is provided by the customer: Information marked " # " is provided by the customer. - Disclaimer: This information is provided by the customer and can affect the validity of results.

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1. General information

Client : Samsung Electronics Co., Ltd.
 Address : 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Rep. of Korea
 Manufacturer : Samsung Electronics Co., Ltd.
 Address : 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Rep. of Korea
 Laboratory : Eurofins KCTL Co.,Ltd.
 Address : 65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea
 Accreditations : FCC Site Designation No: KR0040, FCC Site Registration No: 687132
 VCCI Registration No. : R-3327, G-198, C-3706, T-1849
 CAB Identifier: KR0040, ISED Number: 8035A
 KOLAS No.: KT231

1.1 Report Overview

This report details the results of testing carried out on the samples listed in section 2, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this test report is used in any configuration other than that detailed in the test report, the manufacturer must ensure the new configuration complies with all relevant standards and certification requirements. Any mention of Eurofins KCTL Co.,Ltd. Wireless lab or testing done by Eurofins KCTL Co.,Ltd. Wireless lab made in connection with the distribution or use of the tested product must be approved in writing by Eurofins KCTL Co.,Ltd. Wireless lab.

2. Device information

2.1 Basic description

Product Name		Tablet PC		
Product Model Name		SM-X356B		
Product Manufacturer		Samsung Electronics Co., Ltd.		
Product Serial Number	Radiation	R32XB00710K, R32XA000PRX, R32XB006HDL R32XB00739E		
		R32XA000RVL, R32XB00727T, R32XA000S4H, R32XB003LWE		
		R32XB006Z5W, R32Y100R15R		
Conduction		R32XB006RAZ, 87cc42d8cf347ece, R32XB0066DF, R32XB006QFL		
Device Overview		Band & Mode	Operating Modes	Tx Frequency (MHz)
		GSM/GPRS/EDGE 850	Data	824.2 ~ 848.8
		GSM/GPRS/EDGE 1900	Data	1 850.2 ~ 1 909.8
		WCDMA Band II	Data	1 852.4 ~ 1 907.6
		WCDMA Band IV	Data	1 712.4 ~ 1 752.6
		WCDMA Band V	Data	826.4 ~ 846.6
		LTE Band 2	Data	1 850.7 ~ 1 909.3
		LTE Band 4	Data	1 710.7 ~ 1 754.3
		LTE Band 5	Data	824.7 ~ 848.3
		LTE Band 12	Data	699.7 ~ 715.3
		LTE Band 13	Data	779.5 ~ 784.5
		LTE Band 17	Data	706.5 ~ 713.5
		LTE Band 25	Data	1 850.7 ~ 1 914.3
		LTE Band 26	Data	814.7 ~ 848.3
		LTE Band 41	Data	2 498.5 ~ 2 687.5
		LTE Band 66	Data	1 710.7 ~ 1 779.3
		NR Band n5	Data	826.5 ~ 846.5
		NR Band n26	Data	816.5 ~ 846.5
		NR Band n41	Data	2 501.01 ~ 2 685.00
		NR Band n66	Data	1 712.5 ~ 1 777.5
		NR Band n71	Data	665.5 ~ 695.5
		NR Band n77 DoD	Data	3 455.01 ~ 3 544.98
		NR Band n77	Data	3 705.00 ~ 3 975.00
		NR Band n78	Data	3 455.01 ~ 3 544.98
		2.4 GHz WLAN	Data	2 412.0 ~ 2 472.0
		U-NII-1	Data	5 180.0 ~ 5 240.0
		U-NII-2A	Data	5 260.0 ~ 5 320.0
		U-NII-2C	Data	5 500.0 ~ 5 720.0
		U-NII-3	Data	5 745.0 ~ 5 825.0
		U-NII-4	Data	5 845.0 ~ 5 885.0
		Bluetooth	Data	2 402.0 ~ 2 480.0
		NFC	Data	13.56
TDWR Information		5.60 GHz~ 5.65 GHz band (TDWR) is supported by the device.		

2.2 Summary of SAR Test Results

Band	Ant.	Equipment Class	Highest Reported	
			Body 1g SAR (W/kg)	Body 10g SAR (W/kg)
GSM 850		PCB	0.50	N/A
GSM 1900		PCB	0.77	N/A
WCDMA Band II		PCB	1.09	N/A
WCDMA Band IV		PCB	0.92	N/A
WCDMA Band V		PCB	0.58	N/A
LTE Band 2	Main1	PCB	N/A	N/A
	Sub1	PCB	1.14	N/A
LTE Band 4	Main1	PCB	N/A	N/A
	Sub1	PCB	N/A	N/A
LTE Band 5		PCB	0.66	N/A
LTE Band 12		PCB	0.45	N/A
LTE Band 13		PCB	0.50	N/A
LTE Band 17		PCB	N/A	N/A
LTE Band 25		PCB	1.01	N/A
LTE Band 26		PCB	0.59	N/A
LTE Band 41		PCB	0.79	N/A
LTE Band 66	Main1	PCB	0.75	N/A
	Sub1	PCB	0.41	N/A
NR Band n5		PCB	0.58	N/A
NR Band n26		PCB	0.57	N/A
NR Band n41	SRS 1	PCB	0.56	N/A
	SRS 2	PCB	0.33	N/A
	SRS 3	PCB	0.41	N/A
	SRS 4	PCB	0.28	N/A
NR Band n66		PCB	0.81	N/A
NR Band n71		PCB	0.43	N/A
NR Band n77	SRS 1	PCB	1.03	N/A
NR Band n78	SRS 1	PCB	N/A	N/A
	SRS 2	PCB	0.42	N/A
	SRS 3	PCB	1.20	N/A
	SRS 4	PCB	1.02	N/A
WLAN 2.4 GHz		DTS	0.65	N/A
U-NII-2A		NII	0.57	N/A
U-NII-2C		NII	1.06	N/A
U-NII-3		NII	1.03	N/A
U-NII-4		NII	0.96	N/A
Bluetooth		DSS	0.56	N/A
NFC		DXX	N/A	< 0.10
Simultaneous SAR per KDB 690783 D01v01r03			1.59	N/A

2.3 #Antenna information

Antenna Type		[Main1,2 / Sub1,2,4 : LDS Antenna] [Sub3 : key Antenna]														
Band		GSM		WCDMA			LTE									
		850	1900	II	IV	V	2	4	5	12	13	17	25	26	41	66
Peak gain (dBi)	Main1	0.1	3.0	3.0	2.4	0.1	3.0	2.4	0.1	-3.3	-1.6	-3.3	3.0	0.1	-	2.4
	Main2	-	-	-	-	-	-	-	-	-	-	-	-	-	1.2	-
	Sub1	-	-	-	-	-	5.4	2.3	-	-	-	-	-	-	-	2.3
	Sub2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Sub3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Sub4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Band		NR														
		n5		n26		n41		n66		n71		n77		n78		
Peak gain (dBi)	Main1	0.1	0.1	-		2.4		-4.0		-		-			-	
	Main2	-	-	SRS 1:1.2		-		-		1.8		SRS 1:1.4				
	Sub1	-	-	SRS 2:1.1		-		-		-		-				
	Sub2	-	-	-		-		-		-		SRS 4:1.1				
	Sub3	-	-	SRS 3:-8.14		-		-		-		SRS 2:-6.14				
	Sub4	-	-	SRS 4:-1.1		-		-		-		SRS 3:-3.9				

Antenna Type		LDS Antenna					
Band		WLAN 2.4 GHz / Bluetooth	UNII-1	UNII-2A	UNII-2C	UNII-3	UNII-4
Peak gain (dBi)	Ant.1	-4.5	-4.5	-4.2	-4.2	-4.4	-4.4
	Ant.2	-4.0	-4.7	-4.6	-4.8	-4.9	-4.9

2.4 Power Reduction for SAR

This device utilizes a power reduction mechanism for wireless modes and bands for SAR compliance under some conditions when the device is being used in close proximity to the user's hand. FCC KDB Publication 616217 D04v01r02 Section 6 was used as a guideline for selecting SAR test distances for this device when being used in Tablet use conditions. Detailed descriptions of the power reduction mechanism are included in the operational description.

2.5 #Maximum Tune-up power

This device operates using the following maximum output power specifications. SAR values were scaled to the maximum allowed power to determine compliance per KDB Publication 447498 D04v01.

When the specified maximum output power is the same for both UNII Band1 and UNII Band 2A, begins SAR measurement in UNII band 2A; and if the highest reported SAR for UNII band 2A is $\leq 1.2\text{W/kg}$, SAR is not required for UNII band1 $> 1.2\text{W/kg}$, both bands should be tested independently for SAR.

2.5.1 #Maximum 2G/3G/4G Output Power

Band	Mode	Output Power(dBm)					
		Max, P_{max}		DSI 0 (free)		DSI 1 (Grip Sensor)	
		Target	Max. Allowed	Target	Max. Allowed	Target	Max. Allowed
GSM 850	GSM Voice	33.00	34.00	Same as P_{max}		24.00	25.00
	GPRS 1 TX	33.00	34.00			24.00	25.00
	GPRS 2 TX	31.00	32.00			21.00	22.00
	GPRS 3 TX	29.00	30.00			19.00	20.00
	GPRS 4 TX	27.00	28.00			18.00	19.00
	EGPRS 1 TX	27.00	28.00			24.00	25.00
	EGPRS 2 TX	25.00	26.00			21.00	22.00
	EGPRS 3 TX	23.00	24.00			19.00	20.00
	EGPRS 4 TX	22.00	23.00			18.00	19.00
GSM 1900	GSM Voice	30.00	31.00			20.00	21.00
	GPRS 1 TX	30.00	31.00			20.00	21.00
	GPRS 2 TX	28.00	29.00			17.00	18.00
	GPRS 3 TX	26.00	27.00			15.00	16.00
	GPRS 4 TX	24.00	25.00			14.00	15.00
	EGPRS 1 TX	26.00	27.00			20.00	21.00
	EGPRS 2 TX	24.00	25.00			17.00	18.00
	EGPRS 3 TX	22.00	23.00			15.00	16.00
	EGPRS 4 TX	21.00	22.00			14.00	15.00

Band	Mode		Output Power(dBm)					
			Max, P_{max}		DSI 0 (free)		DSI 1 (Grip Sensor)	
			Target	Max. Allowed	Target	Max. Allowed	Target	Max. Allowed
WCDMA II	RMC		23.00	24.00	Same as P_{max}		11.00	12.00
	AMR		23.00	24.00			11.00	12.00
	HSDPA	Subtest-1	22.00	23.00			10.00	11.00
		Subtest-2	22.00	23.00			10.00	11.00
		Subtest-3	21.50	22.50			9.50	10.50
		Subtest-4	21.50	22.50			9.50	10.50
	HSUPA	Subtest-1	22.00	23.00			10.00	11.00
		Subtest-2	20.00	21.00			8.00	9.00
		Subtest-3	21.00	22.00			9.00	10.00
		Subtest-4	20.00	21.00			8.00	9.00
		Subtest-5	22.00	23.00			10.00	11.00
	DC-HSDPA	Subtest-1	22.00	23.00			10.00	11.00
		Subtest-2	22.00	23.00			10.00	11.00
		Subtest-3	21.50	22.50			9.50	10.50
		Subtest-4	21.50	22.50			9.50	10.50
WCDMA IV	RMC		24.00	25.00			13.00	14.00
	AMR		24.00	25.00			13.00	14.00
	HSDPA	Subtest-1	23.00	24.00			12.00	13.00
		Subtest-2	23.00	24.00			12.00	13.00
		Subtest-3	22.50	23.50			11.50	12.50
		Subtest-4	22.50	23.50			11.50	12.50
	HSUPA	Subtest-1	23.00	24.00			12.00	13.00
		Subtest-2	21.00	22.00			10.00	11.00
		Subtest-3	22.00	23.00			11.00	12.00
		Subtest-4	21.00	22.00			10.00	11.00
		Subtest-5	23.00	24.00			12.00	13.00
	DC-HSDPA	Subtest-1	23.00	24.00			12.00	13.00
		Subtest-2	23.00	24.00			12.00	13.00
		Subtest-3	22.50	23.50			11.50	12.50
		Subtest-4	22.50	23.50			11.50	12.50
WCDMA V	RMC		24.00	25.00			14.00	15.00
	AMR		24.00	25.00			14.00	15.00
	HSDPA	Subtest-1	23.00	24.00			13.00	14.00
		Subtest-2	23.00	24.00			13.00	14.00
		Subtest-3	22.50	23.50			12.50	13.50
		Subtest-4	22.50	23.50			12.50	13.50
	HSUPA	Subtest-1	23.00	24.00			13.00	14.00
		Subtest-2	21.00	22.00			11.00	12.00
		Subtest-3	22.00	23.00			12.00	13.00
		Subtest-4	21.00	22.00			11.00	12.00
		Subtest-5	23.00	24.00			13.00	14.00
	DC-HSDPA	Subtest-1	23.00	24.00			13.00	14.00
		Subtest-2	23.00	24.00			13.00	14.00
		Subtest-3	22.50	23.50			12.50	13.50
		Subtest-4	22.50	23.50			12.50	13.50

Band				Output Power(dBm)					
				Max, P_{max}		DSI 0 (free)		DSI 1 (Grip Sensor)	
				Target	Max. Allowed	Target	Max. Allowed	Target	Max. Allowed
LTE	2	*(Main1)	23.00	24.00	Same as P_{max}		11.50	12.50	
		(Sub1)	22.00	23.00			12.50	13.50	
	4	*(Main1)	24.00	25.00			12.50	13.50	
		*(Sub1)	22.00	23.00			13.00	14.00	
	5		24.00	25.00			15.00	16.00	
	12		24.00	25.00			16.00	17.00	
	13		24.00	25.00			14.00	15.00	
	*17		24.00	25.00			16.00	17.00	
	25		23.00	24.00			11.50	12.50	
	26		23.00	24.00			16.00	17.00	
	41		24.00	25.00			13.50	14.50	
	66	(Main1)	24.00	25.00			12.50	13.50	
(Sub1)		22.00	23.00	13.00	14.00				
5G NR	n5		23.00	24.00	23.00	24.00	16.00	17.00	
	n26		23.00	24.00	23.00	24.00	16.00	17.00	
	n41	SRS 1	24.00	25.00	18.00	19.00	10.00	11.00	
		SRS 2	15.00	16.00	9.00	10.00	N/A		
		SRS 3	14.00	15.00	8.00	9.00			
		SRS 4	17.00	18.00	11.00	12.00			
	n66		24.00	25.00	24.00	25.00	12.50	13.50	
	n71		24.00	25.00	24.00	25.00	16.00	17.00	
	n77	SRS 1	(PC2)	25.00	26.00	19.00	20.00	9.50	10.50
		SRS 1	(PC3)	24.00	25.00	18.00	19.00	9.50	10.50
	n78	*SRS 1	(PC2)	25.00	26.00	19.00	20.00	9.50	10.50
		SRS 2		21.50	22.50	15.50	16.50	N/A	
		SRS 3		18.50	19.50	10.50	11.50		
		SRS 4		19.00	20.00	13.00	14.00		
		SRS 1	(PC3)	24.00	25.00	18.00	19.00	9.50	10.50
		SRS 2		21.50	22.50	15.50	16.50	N/A	
SRS 3		18.50		19.50	10.50	11.50			
SRS 4		19.00		20.00	13.00	14.00			

Notes:

1) *Overlapping frequency range bands exemption.

SAR is exempt from testing because bands with overlapping frequency ranges and same or lower maximum tuning limits have the same channel bandwidth.

Test band		*Overlapping frequency range band
LTE	LTE Band 25 (1 850.7 ~ 1 914.3) MHz	LTE Band 2 (Main1) (1 850.7 ~ 1 909.3) MHz
	LTE Band 66 (Main1/Sub1) (1 710.7 ~ 1 779.3) MHz	LTE Band 4 (Main1/Sub1) (1 710.7 ~ 1 754.3) MHz
	LTE Band 12 (699.7 ~ 715.3) MHz	LTE Band 17 (706.5 ~ 713.5) MHz
5G NR	NR Band n77(PC2) SRS 1 (3 455.01 ~ 3 544.98) MHz	NR Band n78(PC2) SRS 1 (3 455.01 ~ 3 544.98) MHz

2) NR TDD Band and SRS mode were applied as Frame Power(Duty 100%).

2.5.2 #Maximum WLAN Output Power(Max)

Mode	Band	SISO						MIMO (Ant.1+Ant.2)					
		a	b	g	n	ac	ax	a	b	g	n	ac	ax
2.4 GHz (20 MHz)	1ch		19	15	15	15	15			18	18	18	18
	2ch		19	15	15	15	15			18	18	18	18
	3ch		19	15	15	15	15			18	18	18	18
	4-9ch		19	15	15	15	15			18	18	18	18
	10ch		19	15	15	15	15			18	18	18	18
	11ch		19	15.0	15.0	15.0	15.0			18.0	18.0	18.0	18.0
	12ch		2	2	2	2	2			5	5	5	5
	13ch		-1	-1	-1	-1	-1			2	2	2	2
5 GHz (20 MHz)	5200 MHz							20			19	19	19
	5300 MHz							20			19	19	19
	5500 MHz							20			19	19	19
	5520 MHz-5680 MHz							20			19	19	19
	5700 MHz							20			19	19	19
	5720 MHz							20			19	19	19
	5800 MHz							20			19	19	19
	5900 MHz(include over-lap channel: 169ch.)							20			19	19	19
5 GHz (40 MHz)	5190 MHz										19	18	19
	5230 MHz										19	18	19
	5300 MHz										19	18	19
	5510 MHz										19	18	19
	5550 MHz										19	18	19
	5670 MHz										19	18	19
	5710 MHz										19	18	19
	5720 MHz										19	18	19
	5800 MHz										19	18	19
	5900 MHz(include over-lap channel: 167ch.)										19	18	19
5 GHz (80 MHz)	5200 MHz											18	18
	5300 MHz											18	18
	5530 MHz											18	18
	5610 MHz											18	18
	5690 MHz											18	18
	5800 MHz											18	18
	5900 MHz(include over-lap channel: 171ch.)											18	18
	5200 MHz											17	17
5 GHz (160 MHz)	5500 MHz											17	17
	5900 MHz(include over-lap channel: 163ch.)											17	17

Note:

- 1) Supports 802.11b Ant.1 & Ant.2 / Supports only 802.11g,n,ac,ax Ant.2
- 2) WLAN 5 GHz only support MIMO mode.

2.5.3 #Maximum WLAN Output Power(Back off-Grip Sensor)

Mode	Band	SISO						MIMO (Ant.1+Ant.2)					
		a	b	g	n	ac	ax	a	b	g	n	ac	ax
2.4 GHz	1ch		11	11	11	11	11		14	14	14	14	14
	2-10ch		11	11	11	11	11		14	14	14	14	14
	11ch		11	11	11	11	11		14	14	14	14	14
	12ch		2	2	2	2	2		5	5	5	5	5
	13ch		-1	-1	-1	-1	-1		2	2	2	2	2
5 GHz (20 MHz)	5200 MHz							10			10	10	10
	5300 MHz							10			10	10	10
	5500 MHz							10			10	10	10
	5800 MHz							10			10	10	10
	5900 MHz(include over-lap channel: 169ch.)							10			10	10	10
5 GHz (40 MHz)	5200 MHz										10	10	10
	5300 MHz										10	10	10
	5500 MHz										10	10	10
	5800 MHz										10	10	10
	5900 MHz(include over-lap channel: 167ch.)										10	10	10
5 GHz (80 MHz)	5200 MHz											10	10
	5300 MHz											10	10
	5500 MHz											10	10
	5800 MHz											10	10
	5900 MHz(include over-lap channel: 171ch.)											10	10
5 GHz (160 MHz)	5200 MHz											10	10
	5500 MHz											10	10
	5900 MHz(include over-lap channel: 163ch.)											10	10

Note:

- 1) Supports 802.11b Ant.1 & Ant.2 / Supports only 802.11g,n,ac,ax Ant.2
- 2) WLAN 5 GHz only support MIMO mode.

2.5.3 #Maximum Bluetooth Output Power

Band	Mode	Channel	Output Power(dBm)							
			Ant.1				Ant.2			
			Max		Back-off (Grip Sensor)		Max		Back-off (Grip Sensor)	
			Target	Max. Allowed	Target	Max. Allowed	Target	Max. Allowed	Target	Max. Allowed
Bluetooth	BDR(GFSK)	Except	19.00	20.00	10.00	11.00	18.50	19.50	10.00	11.00
		39			10.40	11.40			11.20	12.20
		78			9.50	10.50			9.00	9.50
	EDR (π/4DQPSK) EDR(8DPSK)	0	16.00	17.00	9.00	10.00	15.50	16.50	9.50	10.50
		39			10.00	11.00	15.00	16.00	10.50	11.50
		78			8.50	9.50			8.20	9.20
	LE(GFSK) 1 Mbps/2 Mbps (37/255 Packet)	1M:37 2M:0	17.00	18.00	8.50	9.50	16.00	17.00	8.50	9.50
		17			7.00	8.00				
		1M:39 2M:36								
	LE(GFSK) 125/500 Kbps	Except	8.00	9.00	8.00	9.00	N/A			
		39	7.00	8.00	7.00	8.00				

Note: This device does not supported Advertising channels (2402 MHz, 2426 MHz, 2480 MHz) at the BLE 2Mbps data rate.

2.6 SAR Test Configurations

2.6.1 #DUT Antenna Locations

The overall dimensions of this device are > 20 cm. A diagram showing the location of the device antennas. Please refer to Appendix D.

2.6.2 SAR Test Exclusion Considerations

Device's each edge positions consider SAR test exclusion according to Appendix B.4 of KDB 447498 D04 Interim General RF exposure guide.

If each antenna operate to between 0.3 GHz to 6GHz, and Antenna to DUT surface's distance are within 0.5cm to 40cm, then below Formula can use for SAR test exclusion.

$$P_{th}(mW) = ERP_{20cm}(mW) = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases}$$

$$P_{th}(mW) = \begin{cases} ERP_{20cm}(d/20cm)^x & d \leq 20 \text{ cm} \\ ERP_{20cm} & 20cm < d \leq 40cm \end{cases}$$

where

$$x = -\log_{10} \left(\frac{60}{ERP_{20cm}\sqrt{f}} \right)$$

And f is in GHz, d is the separation distance (cm), and ERP_{20cm} is per Formula.

2.6.2.1 Maximum Tune-up Power

Antenna	Tx	Frequency (MHz)	Output power		Separation distances (mm)					Exclusion				
			dBm	mW	Rear	Left	Right	Top	Bot.	Rear	Left	Right	Top	Bot
Main1	GSM 850	848.8	25.98	396	5	185	14	5	157	9 mW Measure	1550 mW EXEMPT	39 mW Measure	9 mW Measure	1226 mW EXEMPT
	GSM 1900	1909.8	22.98	199						3 mW Measure	2649 mW EXEMPT	22 mW Measure	3 mW Measure	1956 mW EXEMPT
	WCDMA 2	1907.6	24	251						3 mW Measure	2649 mW EXEMPT	22 mW Measure	3 mW Measure	1956 mW EXEMPT
	WCDMA 4	1752.6	25	316						4 mW Measure	2653 mW EXEMPT	24 mW Measure	4 mW Measure	1965 mW EXEMPT
	WCDMA 5	846.6	25	316						9 mW Measure	1546 mW EXEMPT	39 mW Measure	9 mW Measure	1224 mW EXEMPT
	LTE 5	848.3	25	316						9 mW Measure	1549 mW EXEMPT	39 mW Measure	9 mW Measure	1226 mW EXEMPT
	LTE 12	715.3	25	316						11 mW Measure	1317 mW EXEMPT	44 mW Measure	11 mW Measure	1062 mW EXEMPT
	LTE 13	784.5	25	316						10 mW Measure	1438 mW EXEMPT	42 mW Measure	10 mW Measure	1148 mW EXEMPT
	LTE 25	1914.3	24	251						3 mW Measure	2649 mW EXEMPT	22 mW Measure	3 mW Measure	1956 mW EXEMPT
	LTE 26	848.3	24	251						9 mW Measure	1549 mW EXEMPT	39 mW Measure	9 mW Measure	1226 mW EXEMPT
	LTE 66	1779.3	25	316						4 mW Measure	2653 mW EXEMPT	23 mW Measure	4 mW Measure	1964 mW EXEMPT
	NR n5	846.5	24	251						9 mW Measure	1546 mW EXEMPT	39 mW Measure	9 mW Measure	1224 mW EXEMPT
	NR n26	846.5	24	251						9 mW Measure	1546 mW EXEMPT	39 mW Measure	9 mW Measure	1224 mW EXEMPT
	NR n66	1777.5	25	316						4 mW Measure	2653 mW EXEMPT	23 mW Measure	4 mW Measure	1964 mW EXEMPT
	NR n71	695.5	25	316						12 mW Measure	1283 mW EXEMPT	45 mW Measure	12 mW Measure	1037 mW EXEMPT
Main2	LTE 41	2687.5	25	316	5	171	63	5	157	3 mW Measure	2264 mW EXEMPT	332 mW Measure	3 mW Measure	1921 mW EXEMPT
	NR n41 SRS 1	2685	19	79						3 mW Measure	2264 mW EXEMPT	332 mW Measure	3 mW Measure	1922 mW EXEMPT
	NR n77 SRS 1	3544.98	20	100						2 mW Measure	2243 mW EXEMPT	310 mW Measure	2 mW Measure	1894 mW EXEMPT
Sub1	LTE 2(Sub)	1909.3	23	200	5	166	30	157	5	3 mW Measure	2169 mW EXEMPT	92 mW Measure	1956 mW EXEMPT	3 mW Measure
	LTE 66(Sub)	1779.3	23	200						4 mW Measure	2175 mW EXEMPT	95 mW Measure	1964 mW EXEMPT	4 mW Measure
	NR n41 SRS 2	2685	10	10						3 mW Measure	2139 mW EXEMPT	80 mW Measure	1922 mW EXEMPT	3 mW Measure
Sub2	NR n78 SRS 4	3544.98	14	25	5	215	25	158	5	2 mW Measure	3060 mW EXEMPT	50 mW Measure	1918 mW EXEMPT	2 mW Measure
Sub3	NR n41 SRS 3	2685	9	8	5	36	144	5	148	3 mW Measure	113 mW EXEMPT	1627 mW EXEMPT	3 mW Measure	1715 mW EXEMPT
	NR n78 SRS 2	3544.98	16.5	45						2 mW Measure	*102 mW EXEMPT	1596 mW EXEMPT	2 mW Measure	1685 mW EXEMPT
Sub4	NR n41 SRS 4	2685	12	16	5	228	5	133	21	3 mW Measure	3060 mW EXEMPT	3 mW Measure	1397 mW EXEMPT	40 mW EXEMPT
	NR n78 SRS 3	3544.98	11.5	14						2 mW Measure	3060 mW EXEMPT	2 mW Measure	1363 mW EXEMPT	35 mW EXEMPT

Antenna	Tx	Frequency (MHz)	Output power		Separation distances (mm)					Exclusion				
			dBm	mW	Rear	Left	Right	Top	Bot.	Rear	Left	Right	Top	Bot
WIFI Ant.1	2.4 GHz	2462	20.0	100	5	23	204	5	158	3 mW Measure	50 mW Measure	3060 mW EXEMPT	3 mW Measure	1954 mW EXEMPT
	UNII-2A	5320	18.0	63						1 mW Measure	35 mW Measure	3060 mW EXEMPT	1 mW Measure	1878 mW EXEMPT
	UNII-2C	5720	18.0	63						1 mW Measure	34 mW Measure	3060 mW EXEMPT	1 mW Measure	1871 mW EXEMPT
	UNII-3	5825	18.0	63						1 mW Measure	33 mW Measure	3060 mW EXEMPT	1 mW Measure	1870 mW EXEMPT
	UNII-4	5885	18.0	63						1 mW Measure	33 mW Measure	3060 mW EXEMPT	1 mW Measure	1869 mW EXEMPT
	Bluetooth	2480	20.0	100						3 mW Measure	50 mW Measure	3060 mW EXEMPT	3 mW Measure	1953 mW EXEMPT
WIFI Ant.2	2.4 GHz	2462	20.0	100	5	12	199	157	5	3 mW Measure	14 mW Measure	3031 mW EXEMPT	1930 mW EXEMPT	3 mW Measure
	UNII-2A	5320	18.0	63						1 mW Measure	9 mW Measure	3028 mW EXEMPT	1854 mW EXEMPT	1 mW Measure
	UNII-2C	5720	18.0	63						1 mW Measure	9 mW Measure	3028 mW EXEMPT	1847 mW EXEMPT	1 mW Measure
	UNII-3	5825	18.0	63						1 mW Measure	9 mW Measure	3028 mW EXEMPT	1845 mW EXEMPT	1 mW Measure
	UNII-4	5885	18.0	63						1 mW Measure	8 mW Measure	3028 mW EXEMPT	1844 mW EXEMPT	1 mW Measure
	Bluetooth	2480	19.5	89						3 mW Measure	14 mW Measure	3031 mW EXEMPT	1930 mW EXEMPT	3 mW Measure

Note 1: For distances < 5mm, a distance of 5mm is used to determine SAR exclusion and estimated SAR value.

Note 2: Output power is the worst of the maximum rated power (including tune-up or manufacturing tolerances) and ERP(E.I.R.P – 2.15 dB).

Note 3: The values listed in "EXEMPT" are the output power thresholds for which SAR measurements are required.

The value is calculated by KDB 447498 D04 and must be less than the threshold for SAR exemption.

Note 4: Formulas round separation distance to nearest mm and power to nearest mW before calculating thresholds or exemption values.

Note 5: In the case of GSM mode, it was Calculated by applying frame power for SAR test conditions.

*Note 6: Additional testing required in order satisfying FCC simultaneous transmission limit criteria.

2.6.2.2 Reduced Tune-up Power

Antenna	Tx	Frequency (MHz)	Output power		Separation distances (mm)					Exclusion				
			dBm	mW	Rear	Left	Right	Top	Bot.	Rear	Left	Right	Top	Bot
Main1	GSM 850	848.8	15.99	40	5	185	14	5	157	9 mW Measure	Non Power Back-off	Non Power Back-off	9 mW Measure	Non Power Back-off
	GSM 1900	1909.8	11.99	16						3 mW Measure			3 mW Measure	
	WCDMA 2	1907.6	12	16						3 mW Measure			3 mW Measure	
	WCDMA 4	1752.6	14	25						4 mW Measure			4 mW Measure	
	WCDMA 5	846.6	15	32						9 mW Measure			9 mW Measure	
	LTE 5	848.3	16	40						9 mW Measure			9 mW Measure	
	LTE 12	715.3	17	50						11 mW Measure			11 mW Measure	
	LTE 13	784.5	15	32						10 mW Measure			10 mW Measure	
	LTE 25	1914.3	12.5	18						3 mW Measure			3 mW Measure	
	LTE 26	848.3	17	50						9 mW Measure			9 mW Measure	
	LTE 66	1779.3	13.5	22						4 mW Measure			4 mW Measure	
	NR n5	846.5	17	50						9 mW Measure			9 mW Measure	
	NR n26	846.5	17	50						9 mW Measure			9 mW Measure	
	NR n66	1777.5	13.5	22						4 mW Measure			4 mW Measure	
	NR n71	695.5	17	50						12 mW Measure			12 mW Measure	
Main2	LTE 41	2687.5	14.5	28	5	171	63	5	157	3 mW Measure	Non Power Back-off	Non Power Back-off	3 mW Measure	Non Power Back-off
	NR n41 SRS 1	2685	11	13						3 mW Measure			3 mW Measure	
	NR n77 SRS 1	3544.98	10.5	11						2 mW Measure			2 mW Measure	
Sub1	LTE 2(Sub)	1909.3	13.5	22	5	166	30	157	5	3 mW Measure	Non Power Back-off	Non Power Back-off	Non Power Back-off	3 mW Measure
	LTE 66(Sub)	1779.3	14	25						4 mW Measure			Non Power Back-off	4 mW Measure
WIFI Ant.1	2.4 GHz	2462	12.00	16	5	23	204	5	158	3 mW Measure	Non Power Back-off	Non Power Back-off	3 mW Measure	Non Power Back-off
	UNII-2A	5320	8.00	6						1 mW Measure			1 mW Measure	
	UNII-2C	5720	8.00	6						1 mW Measure			1 mW Measure	
	UNII-3	5825	8.00	6						1 mW Measure			1 mW Measure	
	UNII-4	5885	8.00	6						1 mW Measure			1 mW Measure	
	Bluetooth	2480	11.40	14						3 mW Measure			3 mW Measure	
WIFI Ant.2	2.4 GHz	2462	12.00	16	5	12	199	157	5	3 mW Measure	Non Power Back-off	Non Power Back-off	Non Power Back-off	3 mW Measure
	UNII-2A	5320	8.00	6						1 mW Measure			1 mW Measure	1 mW Measure
	UNII-2C	5720	8.00	6						1 mW Measure			1 mW Measure	1 mW Measure
	UNII-3	5825	8.00	6						1 mW Measure			1 mW Measure	1 mW Measure
	UNII-4	5885	8.00	6						1 mW Measure			1 mW Measure	1 mW Measure
	Bluetooth	2480	12.20	17						3 mW Measure			3 mW Measure	3 mW Measure

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Note 1: For distances < 5mm, a distance of 5mm is used to determine SAR exclusion and estimated SAR value.

Note 2: Output power is the worst of the maximum rated power (including tune-up or manufacturing tolerances) and ERP(E.I.R.P – 2.15 dB).

Note 3: The values listed in "EXEMPT" are the output power thresholds for which SAR measurements are required.

The value is calculated by KDB 447498 D04 and must be less than the threshold for SAR exemption.

Note 4: Formulas round separation distance to nearest mm and power to nearest mW before calculating thresholds or exemption values.

Note 5: In the case of GSM mode, it was Calculated by applying frame power for SAR test conditions.

2.7 Near Field Communications (NFC) Antenna

This DUT has NFC operations. The NFC antenna is integrated into the device for the model. Therefore, all SAR test were performed with the device which already incorporates the NFC antenna.

A diagram showing the location of the NFC antenna can be found in Appendix D.

2.8 SAR Test Methods and Procedures

The tests documented in this report were performed in accordance with IEEE 1528-2013 and the following published KDB procedures:

- IEEE 1528-2013
- 248227 D01 802.11 Wi-Fi SAR v02r02
- 447498 D04 General RF Exposure Guidance v01
- 865664 D01 SAR measurement 100 MHz to 6 GHz v01r04
- 865664 D02 RF Exposure Reporting v01r02
- 616217 D04 SAR for laptop and tablets v01r02 (Proximity Sensor)
- 941225 D01 3G SAR Procedures v03r01
- 941225 D05 SAR for LTE Devices v02r05
- 941225 D05A LTE Rel.10 KDB Inquiry Sheet v01r02
- October 2014 TCB Workshop Notes (Other LTE Considerations)
- October 2016 TCB Workshop Notes (Bluetooth Duty Factor)
- November 2017 TCB Workshop Notes (LTE UL/DL Carrier Aggregation SAR)
- April 2018 TCB Workshop Notes (LTE Carrier Aggregation)
- April 2019 TCB Workshop Notes (Tissue Simulating Liquids)
- November 2019 TCB Workshop Notes (SPLSR Hotspot Combination)
- April 2022 TCB Workshop Notes (5G NR FR1 Measurement Procedures)

3. #LTE Information

LTE Information				
Form Factor		Tablet PC		
Frequency Range of each LTE transmission band		LTE Band 2 (1 850.7 MHz ~ 1 909.3 MHz) LTE Band 4 (1 710.7 MHz ~ 1 754.3 MHz) LTE Band 5 (824.7 MHz ~ 848.3 MHz) LTE Band 12 (699.7 MHz ~ 715.3 MHz) LTE Band 13 (779.5 MHz ~ 784.5 MHz) LTE Band 17 (706.5 ~ 713.5) MHz LTE Band 25 (1 850.7 MHz ~ 1 914.3 MHz) LTE Band 26 (814.7 MHz ~ 848.3 MHz) LTE Band 41 (2 498.5 MHz ~ 2 687.5 MHz) LTE Band 66 (1 710.7 MHz ~ 1 779.3 MHz)		
Channel Bandwidths		LTE Band 2: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz LTE Band 4: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz LTE Band 5: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz LTE Band 12: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz LTE Band 13: 5 MHz, 10 MHz LTE Band 17: 5 MHz, 10 MHz LTE Band 25: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz LTE Band 26: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz LTE Band 41: 5 MHz, 10 MHz, 15 MHz, 20 MHz LTE Band 66: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz		
Channel Numbers and Frequencies(MHz)		Low	Mid	High
Band	Bandwidths			
LTE Band 2 (Main1, Sub1)	1.4 MHz	1 850.7 (18 607)	1 880.0 (18 900)	1 909.3 (19 193)
	3 MHz	1 851.5 (18 615)	1 880.0 (18 900)	1 908.5 (19 185)
	5 MHz	1 852.5 (18 625)	1 880.0 (18 900)	1 907.5 (19 175)
	10 MHz	1 855.0 (18 650)	1 880.0 (18 900)	1 905.0 (19 150)
	15 MHz	1 857.5 (18 675)	1 880.0 (18 900)	1 902.5 (19 125)
	20 MHz	1 860.0 (18 700)	1 880.0 (18 900)	1 900.0 (19 100)
LTE Band 4 (Main1, Sub1)	1.4 MHz	1 710.7 (19 957)	1 732.5 (20 175)	1 754.3 (20 393)
	3 MHz	1 711.5 (19 965)	1 732.5 (20 175)	1 753.5 (20 385)
	5 MHz	1 712.5 (19 975)	1 732.5 (20 175)	1 752.5 (20 375)
	10 MHz	1 715.0 (20 000)	1 732.5 (20 175)	1 750.0 (20 350)
	15 MHz	1 717.5 (20 025)	1 732.5 (20 175)	1 747.5 (20 325)
	20 MHz	1 720.0 (20 050)	1 732.5 (20 175)	1 745.0 (20 300)
LTE Band 5	1.4 MHz	824.7 (20 407)	836.5 (20 525)	848.3 (20 643)
	3 MHz	825.5 (20 415)	836.5 (20 525)	847.5 (20 635)
	5 MHz	826.5 (20 425)	836.5 (20 525)	846.5 (20 625)
	10 MHz	829.0 (20 450)	836.5 (20 525)	844.0 (20 600)

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LTE Information							
Channel Numbers and Frequencies(MHz)		Low		Mid		High	
Band	Bandwidths						
LTE Band 12	1.4 MHz	699.7 (23 017)		707.5 (23 095)		715.3 (23 173)	
	3 MHz	700.5 (23 025)		707.5 (23 095)		714.5 (23 165)	
	5 MHz	701.5 (23 035)		707.5 (23 095)		713.5 (23 155)	
	10 MHz	704.0 (23 060)		707.5 (23 095)		711.0 (23 130)	
LTE Band 13	5 MHz	779.5 (23 205)		782.0 (23 230)		784.5 (23 255)	
	10 MHz	-		782.0 (23 230)		-	
LTE Band 17	5 MHz	706.5 (23 755)		710.0 (23 790)		713.5 (23 825)	
	10 MHz	709.0 (23 780)		710.0 (23 790)		711.0 (23 800)	
LTE Band 25	1.4 MHz	1 850.7 (26 047)		1 882.5 (26 365)		1 914.3 (26 683)	
	3 MHz	1 851.5 (26 055)		1 882.5 (26 365)		1 913.5 (26 675)	
	5 MHz	1 852.5 (26 065)		1 882.5 (26 365)		1 912.5 (26 665)	
	10 MHz	1 855.0 (26 090)		1 882.5 (26 365)		1 910.0 (26 640)	
	15 MHz	1 857.5 (26 115)		1 882.5 (26 365)		1 907.5 (26 615)	
	20 MHz	1 860.0 (26 140)		1 882.5 (26 365)		1 905.0 (26 590)	
LTE Band 26	1.4 MHz	814.7 (26 697)		831.5 (26 865)		848.3 (27 033)	
	3 MHz	815.5 (26 705)		831.5 (26 865)		847.5 (27 025)	
	5 MHz	816.5 (26 715)		831.5 (26 865)		846.5 (27 015)	
	10 MHz	819.0 (26 740)		831.5 (26 865)		844.0 (26 990)	
	15 MHz	821.5 (26 765)		831.5 (26 865)		841.5 (26 965)	
LTE Band 41	5 MHz	2 506.0 (39 750)	2 549.5 (40 185)	2 593.0 (40 620)	2 636.5 (41 055)	2 680.0 (41 490)	
	10 MHz	2 506.0 (39 750)	2 549.5 (40 185)	2 593.0 (40 620)	2 636.5 (41 055)	2 680.0 (41 490)	
	15 MHz	2 506.0 (39 750)	2 549.5 (40 185)	2 593.0 (40 620)	2 636.5 (41 055)	2 680.0 (41 490)	
	20 MHz	2 506.0 (39 750)	2 549.5 (40 185)	2 593.0 (40 620)	2 636.5 (41 055)	2 680.0 (41 490)	
LTE Band 66 (Main1, Sub1)	1.4 MHz	1 710.7 (131 979)		1 745.0 (132 322)		1 779.3 (132 665)	
	3 MHz	1 711.5 (131 987)		1 745.0 (132 322)		1 778.5 (132 657)	
	5 MHz	1 712.5 (131 997)		1 745.0 (132 322)		1 777.5 (132 647)	
	10 MHz	1 715.0 (132 022)		1 745.0 (132 322)		1 775.0 (132 622)	
	15 MHz	1 717.5 (132 047)		1 745.0 (132 322)		1 772.5 (132 597)	
	20 MHz	1 720.0 (132 072)		1 745.0 (132 322)		1 770.0 (132 572)	
UE Category		DL: 16 / UL: 18					
Modulations Supported in UL		QPSK, 16QAM, 64QAM, 256QAM					
LTE MPR Permanently implemented per 3GPP TS 36.101 section 6.2.3 ~ 6.2.5?(manufacturer attestation to be provided)		YES					
A-MPR(Additional MPR) disabled for SAR Testing?		YES					
LTE Carrier Aggregation Possible Combinations		This device supports LTE DL CA.					
LTE Additional Information		This device does not support full CA features on 3GPP Release 16. It supports carrier aggregation as shown in Appendix C. Uplink communications are done on the PCC. The following LTE Release 16 Features are not supported: Relay, HetNet, Enhanced MIMO, eICIC, WIFI Offloading, MDH, eMBMS, Cross-Carrier Scheduling, Enhanced SC-FDMA.					

4. #5G NR Information

5G NR Information				
Form Factor		Tablet PC		
Frequency Range of each 5G NR transmission band		5G NR n5 (826.5 MHz ~ 846.5 MHz) 5G NR n26 (816.5 MHz ~ 846.5 MHz) 5G NR n41 (2 501.01 MHz ~ 2 685.00 MHz) 5G NR n66 (1 712.5 MHz ~ 1 775.0 MHz) 5G NR n71 (665.5 MHz ~ 695.5 MHz) 5G NR n77 DoD (3 455.01 MHz ~ 3 544.98 MHz) 5G NR n77 (3 705.00 MHz ~ 3 975.00 MHz) 5G NR n78 (3 455.01 MHz ~ 3 544.98 MHz)		
Mode	Band	Duplex	SCS(kHz)	Bandwidths(BW)
SA, NSA	n5	FDD	15	5, 10, 15, 20
	n26	FDD	15	5, 10, 15, 20
	n41	TDD	30	10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100
	n66	FDD	15	5, 10, 15, 20, 25, 30, 40
	n71	FDD	15	5, 10, 15, 20
	n77 DoD / n77	TDD	30	10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100
	n78	TDD	30	10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100
5G NR Information				
Channel Numbers and Frequencies(MHz)		Low	Mid	High
Band	Bandwidths			
NR Band n5	5 MHz	826.5 (165 300)	836.5 (167 300)	846.5 (169 300)
	10 MHz	829.0 (165 800)	836.5 (167 300)	844.0 (168 800)
	15 MHz	831.5 (166 300)	836.5 (167 300)	841.5 (168 300)
	20 MHz	834.0 (166 800)	836.5 (167 300)	839.0 (167 800)
NR Band n26	5 MHz	816.5(163 300)	831.5(166 300)	846.5(169 300)
	10 MHz	819.0(163 800)	831.5(166 300)	844.0(168 800)
	15 MHz	821.5(164 300)	831.5(166 300)	841.5(168 300)
	20 MHz	824.0(164 800)	831.5(166 300)	839.0(167 800)

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5G NR Information								
Channel Numbers and Frequencies(MHz)			Low		Mid		High	
Band		Bandwidths						
NR Band n41	SRS 1 SRS 2 SRS 3 SRS 4	10 MHz	2 501.01 (500 202)	2 547.00 (509 400)	2 592.99 (518 598)	2 639.01 (527 802)	2 685.00 (537 000)	
		15 MHz	2 503.50 (500 700)	2 548.26 (509 652)	2 592.99 (518 598)	2 637.75 (527 550)	2 682.48 (536 496)	
		20 MHz	2 506.02 (501 204)	2 549.49 (509 898)	2 592.99 (518 598)	2 636.49 (527 298)	2 679.99 (535 998)	
		30 MHz	2 511.00 (502 200)	2 552.01 (510 402)	2 592.99 (518 598)	2 634.00 (526 800)	2 674.98 (534 996)	
		40 MHz	2 516.01 (503 202)	2 567.34 (513 468)	2 592.99 (518 598)	2 618.67 (523 734)	2 670.00 (534 000)	
		50 MHz	2 521.02 (504 204)		2 592.99 (518 598)		2 664.99 (532 998)	
		60 MHz	2 526.00 (505 200)		2 592.99 (518 598)		2 659.98 (531 996)	
		70 MHz	2 531.01 (506 202)		2 592.99 (518 598)		2 655.00 (531 000)	
		80 MHz	2 536.02 (507 204)		2 592.99 (518 598)		2 649.99 (529 998)	
		90 MHz	2 541.00 (508 200)		2 592.99 (518 598)		2 644.98 (528 996)	
		100 MHz	2 546.01 (509 202)		2 592.99 (518 598)		2 640.00 (528 000)	
NR Band n66		5 MHz	1 712.5 (342 500)		1 745.0 (349 000)		1 777.5 (355 500)	
		10 MHz	1 715.0 (343 000)		1 745.0 (349 000)		1 775.0 (355 000)	
		15 MHz	1 717.5 (343 500)		1 745.0 (349 000)		1 772.5 (354 500)	
		20 MHz	1 720.0 (344 000)		1 745.0 (349 000)		1 770.0 (354 000)	
		25 MHz	1 722.5 (344 500)		1 745.0 (349 000)		1 767.5 (353 500)	
		30 MHz	1 725.0 (345 000)		1 745.0 (349 000)		1 765.0 (353 000)	
		40 MHz	1 730.0 (346 000)		1 745.0 (349 000)		1 760.0 (352 000)	
NR Band n71		5 MHz	665.5(133 100)		680.5(136 100)		695.5(139 100)	
		10 MHz	668.0(133 600)		680.5(136 100)		693.0(138 600)	
		15 MHz	670.5(134 100)		680.5(136 100)		690.5(138 100)	
		20 MHz	673.0(134 600)		680.5(136 100)		688.0(137 600)	
NR Band n77 DoD (PC2)(PC3)		10 MHz	3 455.01 (630 334)		3 500.01 (633 334)		3 544.98 (636 322)	
		15 MHz	3 457.50 (630 500)		3 500.01 (633 334)		3 542.49 (636 166)	
		20 MHz	3 460.02 (630 668)		3 500.01 (633 334)		3 540.00 (636 000)	
		30 MHz	3 465.00 (631 000)		3 500.01 (633 334)		3 534.99 (635 666)	
		40 MHz	3 470.01 (631 334)		3 500.01 (633 334)		3 529.98 (635 332)	
		50 MHz	3 475.02 (631 668)		3 500.01 (633 334)		3 525.00 (635 000)	
		60 MHz	3 480.00 (632 000)		3 500.01 (633 334)		3 519.99 (634 666)	
		70 MHz	3 485.01 (632 334)		3 500.01 (633 334)		3 514.98 (634 332)	
		80 MHz	3 490.02 (632 668)		3 500.01 (633 334)		3 510.00 (634 000)	
		90 MHz	3 495.00 (633 000)		3 500.01 (633 334)		3 504.99 (633 666)	
		100 MHz	-		3 500.01 (633 334)		-	

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5G NR Information										
Channel Numbers and Frequencies(MHz)			Low			Mid		High		
Band	Bandwidths									
NR Band n77 (PC2) (PC3)	SRS 1 SRS 2 SRS 3 SRS 4	10 MHz	3 705.00 (647 000)	3 759.00 (650 600)	3 813.00 (654 200)	3 840.00 (656 000)	3 867.00 (657 800)	3 921.00 (661 400)	3 975.00 (665 000)	
		15 MHz	3 707.52 (647 168)	3 760.50 (650 700)	3 813.51 (654 234)	3 840.00 (656 000)	3 866.49 (657 766)	3 919.50 (661 300)	3 972.48 (664 832)	
		20 MHz	3 710.01 (647 334)	3 762.00 (650 800)	3 813.99 (645 266)	3 840.00 (656 000)	3 866.01 (657 734)	3 918.00 (661 200)	3 969.99 (664 666)	
		30 MHz	3 715.02 (647 668)	3 765.00 (651 000)	3 815.01 (654 334)	3 840.00 (656 000)	3 864.99 (657 666)	3 915.00 (661 000)	3 964.98 (664 332)	
		40 MHz	3 720.00 (648 000)	3 768.00 (651 200)	3 816.00 (654 400)	3 840.00 (656 000)	3 864.00 (657 600)	3 912.00 (660 800)	3 960.00 (664 000)	
		50 MHz	3 725.01(648 334)		3 782.49(652 166)		3 840.00(656 000)		3 897.51(659 834) 3 954.99(663 666)	
		60 MHz	3 730.02(648 668)		3 803.34(653 556)		3 840.00(656 000)		3 876.66(658 444) 3 949.98(663 332)	
		70 MHz	3 735.00(649 000)		3 804.99(653 666)		3 840.00(656 000)		3 875.01(658 334) 3 945.00(663 000)	
		80 MHz	3 740.01(649 334)			3 840.00(656 000)			3 939.99(662 666)	
		90 MHz	3 745.02(649 668)			3 840.00(656 000)			3 934.98(662 332)	
		100 MHz	3 750.00(650 000)			3 840.00(656 000)			3 930.00(662 000)	
NR Band n78 (PC2) (PC3)	SRS 1 SRS 2 SRS 3 SRS 4	10 MHz	3 455.01 (630 334)			3 500.01 (633 334)		3 544.98 (636 322)		
		15 MHz	3 457.50 (630 500)			3 500.01 (633 334)		3 542.49 (636 166)		
		20 MHz	3 460.02 (630 668)			3 500.01 (633 334)		3 540.00 (636 000)		
		30 MHz	3 465.00 (631 000)			3 500.01 (633 334)		3 534.99 (635 666)		
		40 MHz	3 470.01 (631 334)			3 500.01 (633 334)		3 529.98 (635 332)		
		50 MHz	3 475.02 (631 668)			3 500.01 (633 334)		3 525.00 (635 000)		
		60 MHz	3 480.00 (632 000)			3 500.01 (633 334)		3 519.99 (634 666)		
		70 MHz	3 485.01 (632 334)			3 500.01 (633 334)		3 514.98 (634 332)		
		80 MHz	3 490.02 (632 668)			3 500.01 (633 334)		3 510.00 (634 000)		
		90 MHz	3 495.00 (633 000)			3 500.01 (633 334)		3 504.99 (633 666)		
		100 MHz	-			3 500.01 (633 334)		-		
NR Band n5/n26/n66/n71 SCS FDD			15 kHz							
NR Band n41/n77/n78 SCS TDD			30 kHz							
3GPP Rel.			Rel.16							
5G NR UL/DL FR1			DFT-s-OFDM : $\pi/2$ BPSK, QPSK, 16QAM, 64QAM, 256QAM CP-OFDM : QPSK, 16QAM, 64QAM, 256QAM							
Non Standalone & Standalone are supported.			SA & NSA supported.							
A-MPR(Additional MPR) disabled for SAR Testing?			YES							
NR MPR Permanently implemented per 3GPP TS 38.101			YES							
EN-DC Carrier Aggregation Possible Combinations (LTE Anchor Bands for NR Band)										
NR Band			LTE Band							
n5 (Main1)			[Main1] B2/66							
n41 (Main2)			[Main1] B5/12/26							
			[Sub1] B2/4/66							
n66 (Main1)			[Main1] B5/12/13							
			[Sub1] B2							
n71 (Main1)			[Main1] B2/66							
n77 (Main2)			[Main1] B2/5/12/13/25/66							
n78 (Main2)			[Main1] B2/4/5/12/13/26/66							
			[Main2] B41							

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KP24-07629

5. Specific Absorption Rate

5.1 Introduction

The 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.

5.2 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 measurement can be either related to the temperature elevation in tissue by

$$SAR = C \left(\frac{\delta T}{\delta t} \right)$$

Where: C is the specific heat capacity, δT is the temperature rise and δt is the exposure duration, or related to the electrical field in the tissue by

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

Where: σ is the conductivity of the tissue, ρ is the mass density of the tissue and E is the RMS electrical field strength. However for evaluating SAR of low power transmitter, electrical field measurement is typically applied.

6. SAR Measurement Procedures

6.1 SAR Scan Procedures

Step 1: 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. The minimum distance of probe sensors to surface is 1.4 mm. This distance cannot be smaller than the Distance of sensor calibration points to probe tip as defined in the probe properties.

Step 2: Area Scan & Zoom 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 and Zoom Scans are used to assess the peak spatial SAR values within a cubic averaging volume containing 1 g and 10 g of simulated tissue. 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 & Zoom Scan Parameters extracted from KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04.

			≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface			5 mm ± 1 mm	$\frac{1}{2} \delta \cdot \ln(2)$ mm 0.5 mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location			30° ± 1°	20° ± 1°
Maximum area scan spatial resolution: Δx _{Area} , Δy _{Area}			≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm
			When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be ≤ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	
Maximum zoom scan spatial resolution: Δx _{Zoom} , Δy _{Zoom}			≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm*	3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: Δz _{Zoom} (n)		≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm
	graded grid	Δz _{Zoom} (1): between 1st two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm
		Δz _{Zoom} (n>1): between subsequent points	≤ 1.5 · Δz _{Zoom} (n-1) mm	
Minimum zoom scan volume	x, y, z		≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm
Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see IEEE Std 1528-2013 for details.				
* When zoom scan is required and the reported SAR from the area scan based 1-g SAR estimation procedures of KDB Publication 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 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.				

Step 3: Power drift measurement

The Power Drift Measurement measures the field at the same location as the most recent power reference measurement within the same procedure, and with the same settings. The Power Drift Measurement gives the field difference in dB from the reading conducted within the last Power Reference Measurement. This allows a user to monitor the power drift of the device under test within a batch process. The measurement procedure is the same as Step 1.

7. SAR Measurement Configurations

7.1 SAR Testing for Tablet Configurations

Per FCC KDB Publication 616217 D04v01r02, for the back surface and edges of the tablet should be tested touching the phantom.

SAR evaluation for the front surface of tablet display screens are generally not necessary, except for tablets that are designed to require continuous operations with the hand next to the antenna.

The SAR exclusion threshold in KDB 447498 D04v01 can be applied to determine SAR test exclusion for adjacent edge configuration. The closest distance from the antenna to an adjacent tablet edge is used to determine if SAR testing is required for the adjacent edges, with the adjacent edge positioned against the phantom and the edge containing the antenna positioned perpendicular to the phantom.

7.2 Proximity Sensor Considerations

This device uses a power reduction mechanism to reduce output powers in certain use conditions when the device is used close to the user's body.

When the device's antenna is within a certain distance of the user, the sensor activates and reduces the maximum allowed output power. However, the sensor is not active when the device is moved beyond the sensor triggering distance and the maximum output power is no longer limited. Therefore, additional evaluation is needed in the vicinity of the triggering distance to ensure SAR is compliant when the device is allowed to operate at a non-reduced output power level. FCC KDB Publication 616217 D04v01r02 Section 6 was used as a guideline for selecting SAR test distances for this device at these additional test positions.

8. RF Exposure Limits

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.

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. This 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.

Human Exposure	Uncontrolled Environment General Population	Controlled Environment Occupational
Partial Peak SAR ¹⁾ (Partial)	1.60 mW/g	8.00 mW/g
Partial Average SAR ²⁾ (Whole Body)	0.08 mW/g	0.40 mW/g
Partial Peak SAR ³⁾ (Hands/Feet/Ankle/Wrist)	4.00 mW/g	20.00 mW/g

- 1) The spatial Peak value of the SAR averaged over any 1g gram of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.
- 2) The spatial Average value of the SAR averaged over the whole body.
- 3) The Spatial Peak value of the SAR averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.

9. FCC SAR General Measurement Procedures

9.1 Measured and Reported SAR

Per FCC KDB Publication 447498 D04v01, When SAR is not measured at the maximum power level allowed for production units, the results must be scaled to the maximum tune-up tolerance limit according to the power applied to the individual channels tested to determine compliance. For simultaneous transmission, the measured aggregate SAR must be scaled according to the sum of the differences between the maximum tune-up tolerance and actual power used to test each transmitter. When SAR is measured at or scaled to the maximum tune-up tolerance limit, the results are referred to as reported SAR. Test highest reported SAR results are identified on the grant of equipment authorization according to procedures in KDB 690783 D01v01r03.

9.2 3G SAR Test Reduction Procedure

In FCC KDB Publication 941225 D01v03r01, certain transmission modes within a frequency band and wireless mode evaluated for SAR are defined as primary modes. The equivalent modes considered for SAR test reduction are denoted as secondary modes. When the maximum output power including tune-up tolerance specified for production units in a secondary mode is ≤ 0.25 dB higher than the primary mode or when the highest reported SAR of the primary mode, scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode, is ≤ 1.2 W/kg, SAR measurements are not required for the secondary mode. These criteria are referred to as the 3G SAR test reduction procedure. When the 3G SAR test reduction procedure is not satisfied, SAR measurements are additionally required for the secondary mode.

9.3 Procedures Used to Establish RF Signal for SAR

The following procedures are according to FCC KDB Publication 941225 D01v03r01 “3G SAR Measurement Procedures.”

The device is placed into a simulated call using a base station simulator in a RF shielded chamber. Establishing connections in this manner ensure a consistent means for testing SAR and are recommended for evaluating SAR [4]. Devices under test are evaluated prior to testing, with a fully charged battery and were configured to operate at maximum output power. In order to verify that the device is tested throughout the SAR test at maximum output power, the SAR measurement system measures a “point SAR” at an arbitrary reference point at the start and end of the 1 gram SAR evaluation, to assess for any power drifts during the evaluation. If the power drift deviates by more than 5%, the SAR test and drift measurements are repeated.

9.4 SAR Measurement Conditions for UMTS

9.4.1 Output Power Verification

Maximum output power is verified on the High, Middle and Low channels according to the general descriptions in sec. 5.2 of 3GPP TS 34.121, using the appropriate RMC with TPC (transmit power control) set to all “1s” or applying the required inner loop power control procedures to maintain maximum output power while HSUPA is active. Results for all applicable physical channel configurations (DPCCH, DPDCHn and spreading codes, HS-DPCCH etc) are tabulated in this test report. All configurations that are not supported by the DUT or cannot be measured due to technical or equipment limitations are identified.

9.4.2 Body SAR measurements

SAR for body exposure configurations is measured using the 12.2kbps RMC with the TPC bits all “1s”. the 3G SAR test reduction procedure is applied to other spreading codes and multiple DPDCHn configurations supported by the handset with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured using and applicable RMC configuration with the corresponding spreading code or DPDCHn, for the highest reported SAR configuration in 12.2kbps RMC.

9.4.3 SAR Measurements with Rel. 5 HSDPA

The 3G SAR test reduction procedure is applied to HSDPA body configurations with 12.2 kbps RMC as the primary mode. Otherwise, Body SAR for HSDPA is measured using and FRC with H-SET 1 in Sub-test and a 12.2 kbps RMC without HSDPA. Handsets with both HSDPA and HSUPA are tested according to release 6 HSPA test procedures. 8.4.5 SAR Measurement with Rel.6 HSUPA The 3G SAR test Reduction Procedure is applied to HSPA (HSUPA/HSDPA with RMC) body configurations with 12.2 kbps RMC as the primary mode. Otherwise, Body SAR for HSPA is measured with E-DCH Sub-test 5, Using H-Set 1 and QPSK for FRC and a 12.2kbps RMC configured in Test Loop Mode 1 and Power Control algorithm 2, according to the highest reported body SAR configuration in 12.2 kbps RMC without HSPA. When VOIP applies to head exposure, the 3G SAR test reduction procedure is applied with 12.2 kbps RMC as the primary mode; otherwise, the same HSPA configuration used for body SAR measurements are applied to head exposure testing.

9.4.4 SAR Measurements with Rel. 6 HSUPA

The 3G SAR test reduction procedure is applied to HSPA (HSUPA/HSDPA with RMC) body configurations with 12.2 kbps RMC as the primary mode. Otherwise, Body SAR for HSPA is measured with E-DCH Sub-test 5, using H-Set1 and QPSK for FRC and a 12.2 kbps RMC configured in Test Loop Mode 1 and power control algorithm 2, according to the highest reported body SAR configuration in 12.2 kbps RMC without HSPA.

9.4.5 SAR Measurements with Rel. 8 DC-HSDPA

SAR is required for Rel. 8 DC-HSDPA when SAR is required for Rel. 5 HSDPA; otherwise, the 3G SAR test reduction procedure is applied to DC-HSDPA with 12.2 kbps RMC as the primary mode. Power is measured for DC-HSDPA according to the H-Set 12, FRC configuration in Table C.8.1.12 of 3GPP TS 34.121-1 to determine SAR test reduction. A primary and a secondary serving HS-DSCH Cell are required to perform the power measurement and for the results to be acceptable

9.5 SAR Measurement Conditions for LTE

LTE modes are tested according to FCC KDB 941225 D05v02r05 publication. Establishing connections with base station simulators ensure a consistent means for testing SAR and are recommended for evaluation SAR [4]. The R&S CMW500 or Anritsu MT8820C simulators are used for LTE output power measurements and SAR testing. Closed loop power control was used so the UE transmits with maximum output power during SAR testing. SAR tests were performed with the same number of RB and RB offsets transmitting on all TTI frames (maximum TTI).

9.5.1 Spectrum Plots for RB Configurations

A properly configured base station simulator was used for SAR tests and power measurements. Therefore, spectrum plots for RB configurations were not required to be included in this report.

9.5.2 MPR

MPR is permanently implemented for this device by the manufacturer. The specific manufacturer target MPR is indicated alongside the SAR results. MPR is enabled for this device, according to 3GPP TS36. 101 Section 6.2.3 – 6.2.5 under Table 6.2.3-1.

9.5.3 A-MPR

A-MPR (Additional MPR) has been disabled for all SAR tests by setting NS=01 on the base station simulator

9.5.4 Required RB Size and RB offsets for SAR testing

According to FCC KDB 941225 D05v02r05

1. Per sec 4.2.1, SAR is required for QPSK 1 RB Allocation for the largest bandwidth
 - a. The required channel and offset combination with the highest maximum output power is required for SAR.
 - b. When the reported SAR is ≤ 0.8 W/Kg, testing of the remaining RB offset configurations and required test channels is not required. Otherwise, SAR is required for the remaining required test channels using the RB offset configuration with highest output power for that channel.
 - c. When the reported SAR for a required test channel is > 1.45 W/kg, SAR is required for all RB offset configurations for that channel
2. Per Sec 4.2.2, SAR is required for 50% RB allocation using the largest bandwidth following the same procedures outlined in Sec 4.2.1.
3. Per Sec. 4.2.3, QPSK SAR is not required for the 100% allocation when the highest maximum output power for the 100% allocation is less than the highest maximum output power of the 1 RB and 50% RB allocations and the reported SAR for the 1 RB and 50% RB allocations is < 0.8 W/kg.
4. Per Sec. 4.2.4 and 4.3, SAR test for higher order modulations and lower bandwidths configurations are not required when the conducted power of the required test configurations determined by Sec. 4.2.1 through 4.2.3 is less than or equal to 1/2 dB higher than the equivalent configuration using QPSK modulation and when the QPSK SAR for those configurations is < 1.45 W/Kg.

9.5.5 LTE(TDD) Considerations

According to KDB 941225 D05v02r05, for Time-Division Duplex (TDD) systems, SAR must be tested using a fixed periodic duty factor according to the highest transmission duty factor implemented for the device and supported by the defined 3GPP LTE TDD configurations.

SAR was tested with the highest transmission duty factor (63.33 %) using Uplink-downlink configuration 0 and Special sub-frame configuration 6.

LTE TDD Band supports 3GPP TS 36.211 section 4.2 for Type 2 Frame and Table 4.2-2 for uplink-downlink configurations and Table 4.2-1 for Special sub frame configurations.

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

Special subframe configuration n	Normal cyclic prefix in downlink			Extended cyclic prefix in downlink		
	DwPTS	UpPTS		DwPTS	UpPTS	
		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink
0	$6592 \cdot T_s$	$(1+X) \cdot 2192 \cdot T_s$	$(1+X) \cdot 2560 \cdot T_s$	$7680 \cdot T_s$	$(1+X) \cdot 2192 \cdot T_s$	$(1+X) \cdot 2560 \cdot T_s$
1	$19760 \cdot T_s$			$20480 \cdot T_s$		
2	$21952 \cdot T_s$			$23040 \cdot T_s$		
3	$24144 \cdot T_s$			$25600 \cdot T_s$		
4	$26336 \cdot T_s$			$7680 \cdot T_s$		
5	$6592 \cdot T_s$	$(2+X) \cdot 2192 \cdot T_s$	$(2+X) \cdot 2560 \cdot T_s$	$20480 \cdot T_s$	$(2+X) \cdot 2192 \cdot T_s$	$(2+X) \cdot 2560 \cdot T_s$
6	$19760 \cdot T_s$			$23040 \cdot T_s$		
7	$21952 \cdot T_s$			$12800 \cdot T_s$		
8	$24144 \cdot T_s$			-	-	-
9	$13168 \cdot T_s$			-	-	-
10	$13168 \cdot T_s$	$13152 \cdot T_s$	$12800 \cdot T_s$	-	-	-

Table 4.2-2: Uplink-downlink configurations

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

Calculated Duty Cycle – Extended cyclic prefix in uplink x (T_s) x # of S + # of U

Example for calculated Duty Cycle for Uplink-Downlink Configuration 0:

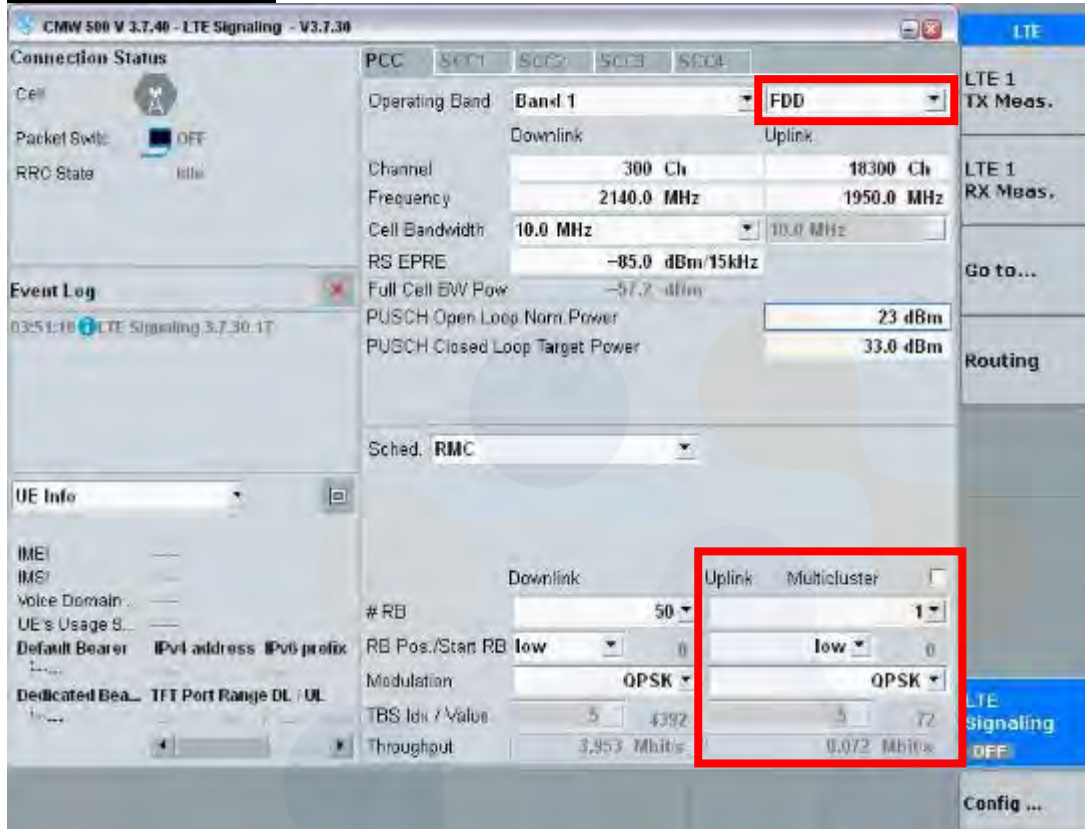
Calculated Duty Cycle = $(5120 \times [1/(15000 \times 2048)] \times 2 + 0.006)/0.01 = 63.33 \%$

$T_s = 1/(15000 \times 2048)$ seconds

9.5.6 The LTE Call box establishment procedure

This is an explanation of the establishment of LTE FDD/TDD.

<FDD Configuration>



<TDD Configuration>

CMW 500 V 3.7.40 - LTE Signaling - V3.7.30

Connection Status

Cell: Packet Switc: OFF RRC State: Idle

Event Log

03:51:18 LTE Signaling 3.7.30.1T

UE Info

IMEI: IMSI: Voice Domain: UE's Usage S: Default Bearer: IPv4 address: IPv6 prefix: Dedicated Bea: TFT Port Range DL / UL

Operating Band: Band 41 TDD

Channel: 40620 Ch Downlink: 40620 Ch Uplink: 40620 Ch

Frequency: 2593.0 MHz Downlink: 2593.0 MHz Uplink: 2593.0 MHz

Cell Bandwidth: 10.0 MHz Downlink: 10.0 MHz Uplink: 10.0 MHz

RS EPRE: -85.0 dBm/15kHz Downlink: -85.0 dBm/15kHz Uplink: -85.0 dBm/15kHz

Full Cell BW Pow: -57.2 dBm Downlink: -57.2 dBm Uplink: -57.2 dBm

PUSCH Open Loop Norm.Power: 23 dBm

PUSCH Closed Loop Target Power: 33.0 dBm

Sched: RMC

#RB: 50 Downlink: 50 Uplink: 1

RB Pos./Start RB: low Downlink: low Uplink: low

Modulation: QPSK Downlink: QPSK Uplink: QPSK

TBS Idx / Value: 5 / 439 Downlink: 5 / 439 Uplink: 5 / 439

Throughput: 1.966 Mbit/s Downlink: 1.966 Mbit/s Uplink: 0.029 Mbit/s

Uplink Multicenter

LTE Signaling - Configuration

PCC SCC1 SCC2 SCC3 SCC4

Path: Physical Cell Setup/TDD/Special Subframe

Duplex Mode: TDD Use Carrier Specific: ☐

Scenario: Search... 1CC - 1x1

Base Band Unit: SUW1

RF Settings

Downlink Power Levels

Uplink Power Control

Physical Cell Setup

DL Cell Bandwidth: 10.0 MHz #RB Max: 50

UL Cell Bandwidth: 10.0 MHz

Physical Cell ID: 0

Cyclic Prefix: Normal

Sounding RS (SRS): ☐

SRS

TDD

Use Carrier Specific: ☐

Uplink Downlink Configurati...: 0

Subframe Number: 0 1 2 3 4 5 6 7 8 9

Direction: S U U U U S U U U

Special Subframe: 6

PRACH

Network

Connection

COI Reporting

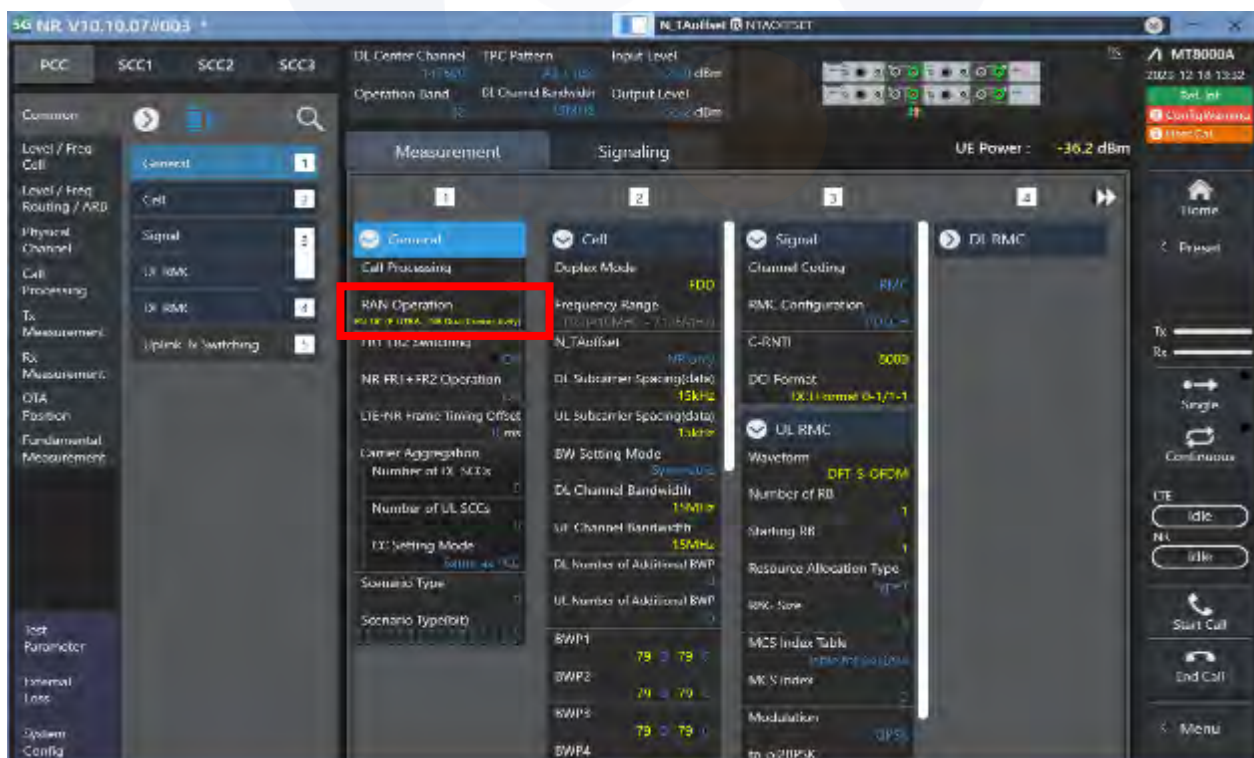
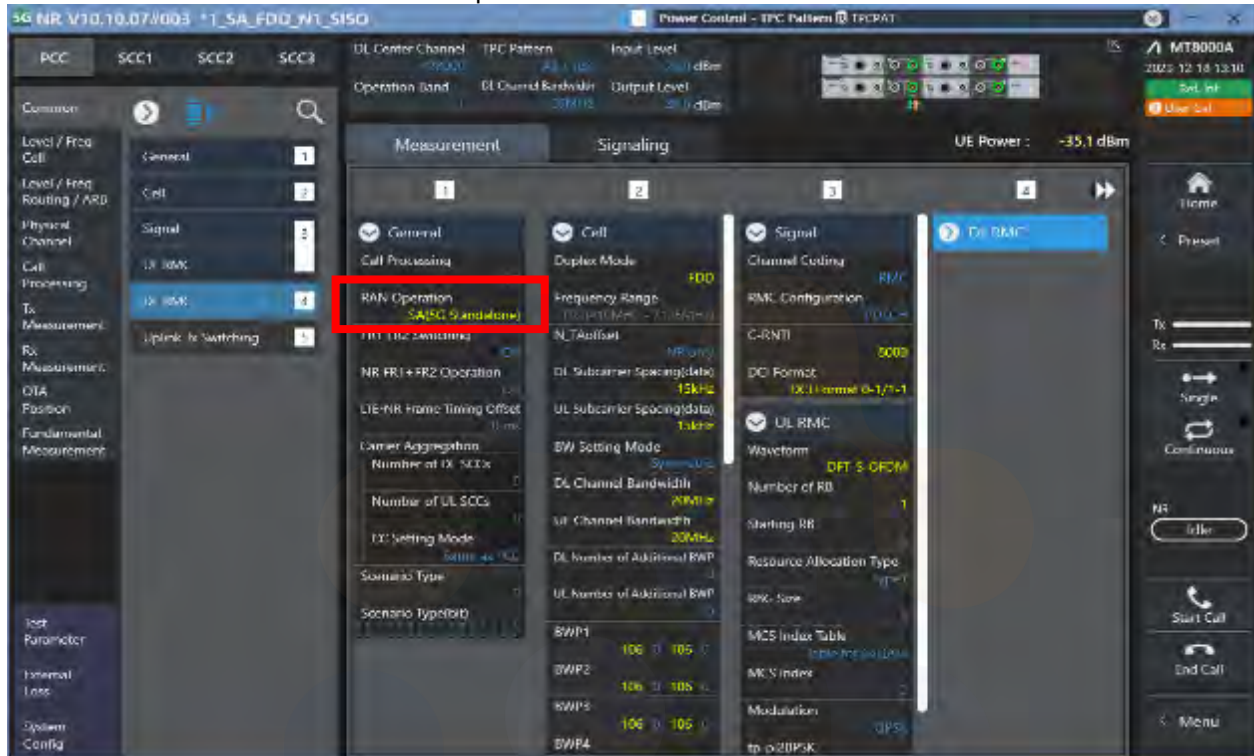
Note: LTE TDD Uplink Downlink configuration 0 and Special subframe Configuration 6.

9.5.7 The 5G NR Call box establishment procedure

This is an explanation of the establishment of 5G NR SA & NSA and FDD & TDD.

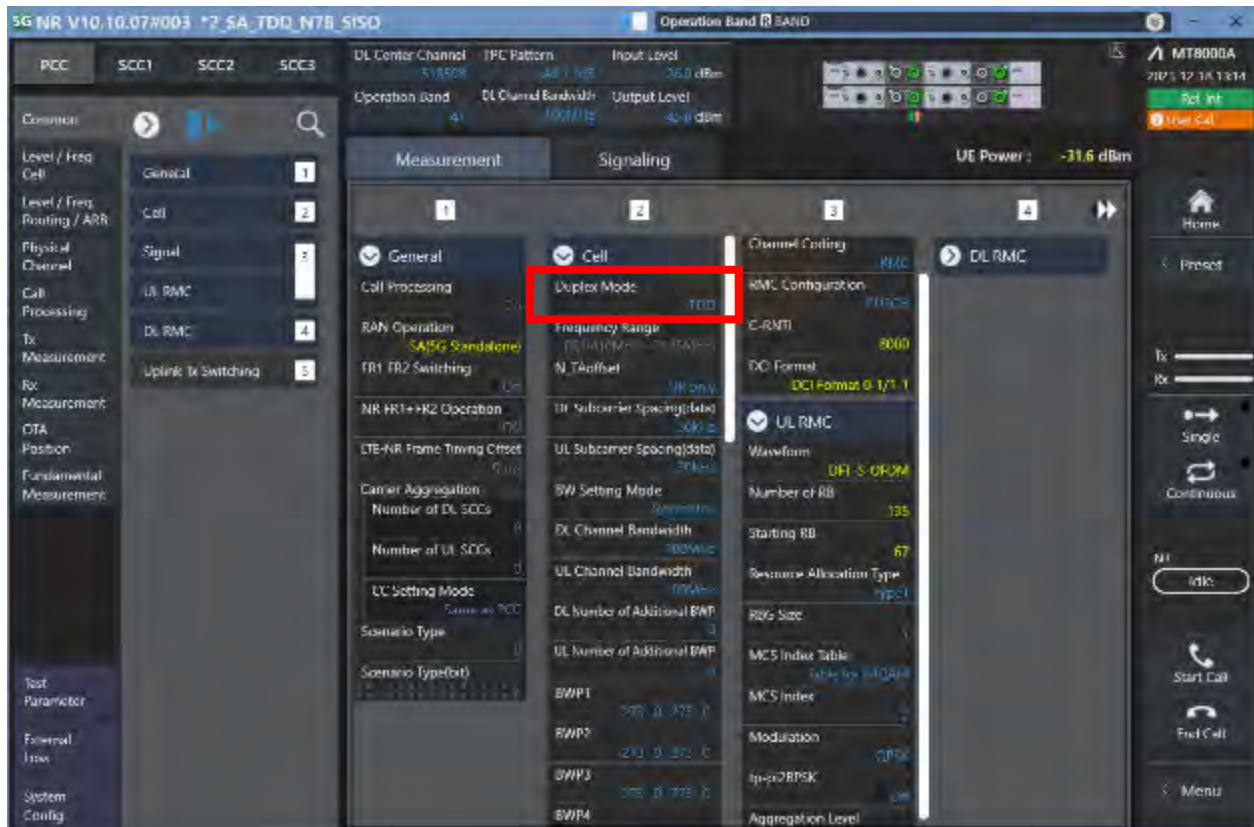
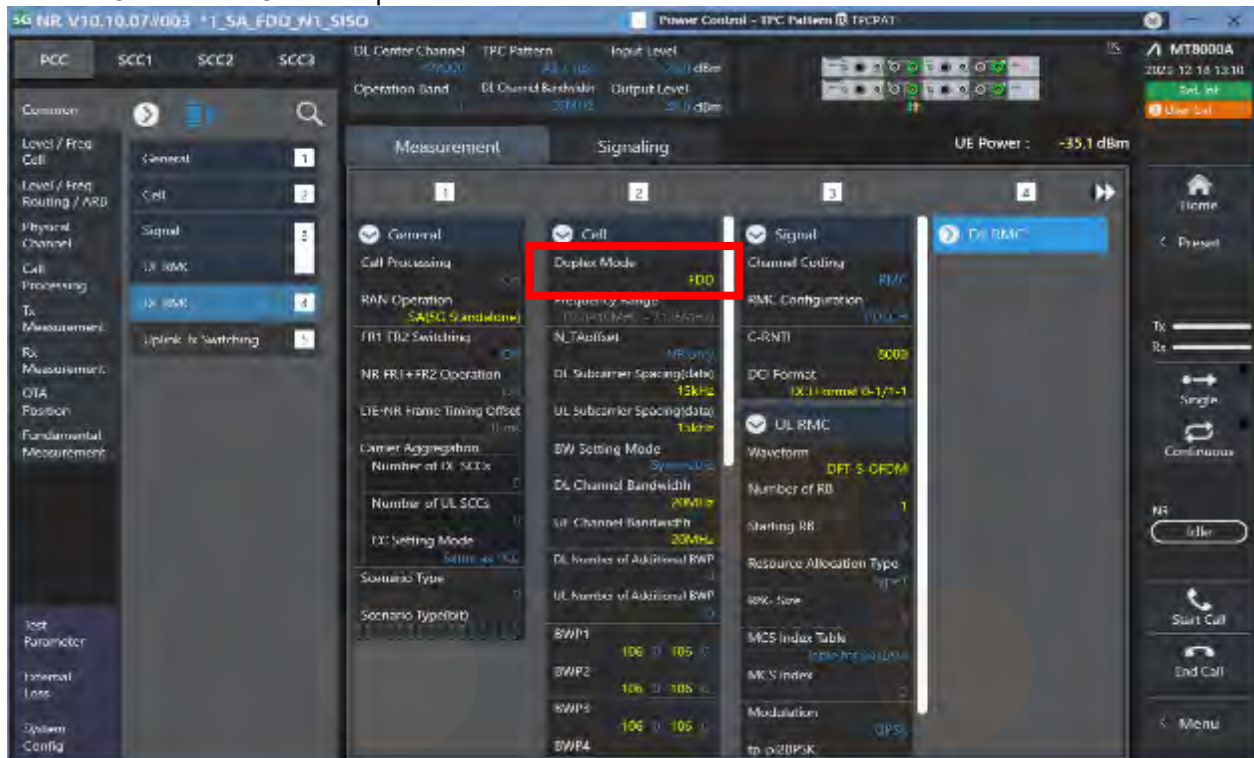
Switching to NSA mode or SA Mode

- Common -> General -> RAN Operation -> SA or ENDC



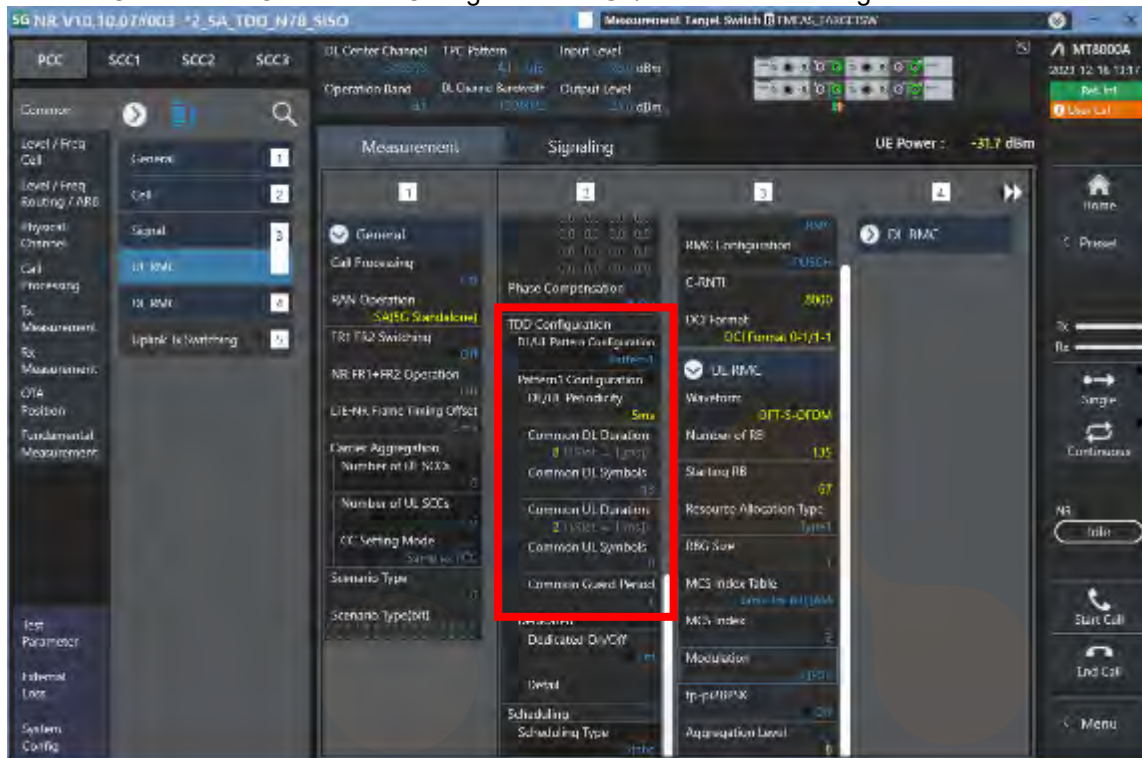
Switching to FDD mode or TDD Mode

- Common -> Cell -> Duplex Mode -> FDD or TDD



Duty cycle settings in TDD Mode

- Common -> Cell -> TDD Configuration -> UL/DL Duration setting



Note: The 5G NR TDD band of this device was tested at 100% duty in FTM mode provided by the manufacturer.

9.5.7 NR (Sub 6 GHz) Considerations

The following tests were conducted according to the test requirements outlined in section 6.2 of the 3GPP TS 138.521-1 specification.

UE Power Class: 3 (23 +/- 2dBm). The allowed Maximum Power Reduction (MPR) for the maximum output power

due to higher order modulation and transmit bandwidth configuration (resource blocks) is specified in Table 6.2.3-1

of the 3GPP TS138.521-1.

Modulation	MPR(dB)		
	Edge RB allocation	Outer RB allocation	Inner RB allocation
DFT-s-OFDM PI/2 BPSK	$\leq 3.5^1$	$\leq 1.2^1$	$\leq 0.2^1$
	$\leq 0.5^2$		0^2
DFT-s-OFDM QPSK	≤ 1		0
DFT-s-OFDM 16QAM	≤ 2		≤ 1
DFT-s-OFDM 64QAM	≤ 2.5		
DFT-s-OFDM 256QAM	≤ 4.5		
CP-OFDM QPSK	≤ 3		≤ 1.5
CP-OFDM 16QAM	≤ 3		≤ 2
CP-OFDM 64QAM	≤ 3.5		
CP-OFDM 256QAM	≤ 6.5		
NOTE 1:	Applicable for UE operating in TDD mode with PI/2 BPSK modulation and UE indicates support for UE capability powerBoosting-pi2BPSK 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 0dB MPR is 26dBm.		
NOTE 2:	Applicable for UE operating in FDD mode, or in TDD mode in bands other than 40, n41, n77, n78 and n79 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.		

The allowed A-MPR values specified below in Table 6.2.3.3.1-1 of 3GPP TS138.521-1 are in addition to the allowed MPR requirements. All the measurements below were performed with A-MPR disabled, by using Network

Signaling Value of "NS_01"

Table 6.2.3.3.1-1: Additional maximum power reduction (A-MPR)

Network Signalling label	Requirements (subclause)	NR Band	Channel Bandwidth (MHz)	Resources Blocks(NRB)	A-MPR(dB)
NS_01		Table 5.2-1	5, 10, 15, 20, 25, 30, 40, 50, 60, 80, 90, 100	Table 5.3.2-1	N/A

Uplink RB allocations were used to Table 6.1-1 of the 3GPP TS 138.521-1.

9.6 SAR Testing with 802.11 Transmitters

The normal network operating configurations are not suitable for measuring the SAR of 802.11 a/b/g transmitters. Unpredictable fluctuations in network traffic and antenna diversity conditions can introduce undesirable variations in SAR results. The SAR for these devices should be measured using chipset based test mode software to ensure the results are consistent and reliable.

9.6.1 General Device Setup

Chipset based test mode software is hardware dependent and generally varies among manufacturers. The device operating parameters established in test mode for SAR measurements must be identical to those programmed in production units, including output power levels, amplifier gain settings and other RF performance tuning parameters. A periodic duty factor is required for current generation SAR systems to measure SAR. When 802.11 frame gaps are accounted for in the transmission, a maximum transmission duty factor of 92 – 96% is typically achievable in most test mode configurations. A minimum transmission duty factor of 85% is required to avoid certain hardware and device implementation issues related to wide range SAR scaling. The reported SAR is scaled to 100% transmission duty factor to determine compliance at the maximum tune-up tolerance limit.

9.6.2 U-NII-1 and U-NII-2A

For devices that operate in both U-NII-1 and U-NII-2A bands, when the same maximum output power is specified for both bands, SAR measurement using OFDM SAR test procedures is not required for U-NII-1 unless the highest reported SAR for U-NII-2A is $> 1.2 \text{ W/kg}$. When different maximum output powers is not required unless the highest reported SAR for the U-NII band with the higher maximum output power, adjusted by the ratio of lower to higher specified maximum output power for the two bands, is $> 1.2 \text{ W/kg}$. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

9.6.3 U-NII-2C and U-NII-3

The frequency range covered by U-NII-2C and U-NII-3 is 380 MHz (5.47 – 5.85 GHz), which requires a minimum of at least two SAR probe calibration frequency points to support SAR measurements. When Terminal Doppler Weather Radar (TDWR) restriction applies, the channels at 5.60 – 5.65 GHz in U-NII-2C band must be disabled with acceptable mechanisms and documented in the equipment certification. Unless band gap channels are permanently disabled, SAR must be considered for these channels. When band gap channels are disabled, each band is tested independently according to the normally required OFDM SAR measurement and probe calibration frequency point requirements.

9.6.4 Initial Test Position Procedure

For exposure conditions with multiple test positions, such as handset operating next to the ear, devices with hotspot mode or UMPC mini-tablet, procedures for initial test position can be applied. Using the transmission mode determined by the DSSS procedure or initial test configuration, area scans are measured for all positions in an exposure condition. The test position with the highest extrapolated (peak) SAR is used as the initial test position. When reported SAR for the initial test position is ≤ 0.4 W/kg, no additional testing for the remaining test positions is required. Otherwise, SAR is evaluated at the subsequent highest peak SAR positions until the reported SAR result is ≤ 0.8 W/kg or all test positions are measured.

9.6.5 2.4 GHz SAR Test Requirement

SAR is measured for 2.4 GHz 802.11b DSSS using either the fixed test position or, when applicable, the initial test position procedure. SAR test reduction is determined according to the following.

- 1) When the reported SAR of the highest measured maximum output power channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required for 802.11b DSSS in that exposure configuration.
- 2) When the reported SAR is > 0.8 W/kg, SAR is required for that position using the next highest measured output power channel; i.e., all channels require testing.

2.4 GHz 802.11g/n OFDM are additionally evaluated for SAR if highest reported SAR for 802.11b, adjusted by the ratio of the OFDM to DSSS specified maximum output power, is > 1.2 W/kg. When SAR is required for OFDM modes in 2.4 GHz band, the Initial Test Configuration Procedures should be followed.

9.6.6 OFDM Transmission Mode and SAR Test Channel Selection

For the 2.4 GHz and 5 GHz band, when the same maximum output power was specified for multiple OFDM transmission mode configurations in a frequency band or aggregated band, SAR is measured using the configuration with the largest channel bandwidth, lowest order modulation and lowest data rate. When the maximum output power of a channel is the same for equivalent OFDM configurations; for example, 802.11a, 802.11n and 802.11ac or 802.11g and 802.11n with the same channel bandwidth, modulation and data rate etc., the lower order 802.11 mode i.e., 802.11a, then 802.11n and 802.11ac or 802.11g then 802.11n, is used for SAR measurement. When maximum output power are the same for multiple test channels, either according to the default or additional power measurement requirements, SAR is measured using the channel closest to the middle of the frequency band or aggregated band. When there are multiple channels with the same maximum output power, SAR is measured using the higher number channel.

Eurofins KCTL Co.,Ltd. 65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea TEL: 82-70-5008-1021 FAX: 82-505-299-8311 www.kctl.co.kr	Report No.: KR25-SPF0005-C Page (40) of (534)	
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9.6.7 Initial Test Configuration Procedure

For OFDM, in both 2.4 and 5 GHz bands, an initial test configuration is determined for each frequency band and aggregated band, according to the transmission mode with the highest maximum output power specified for SAR measurements. When the same maximum output power is specified for multiple OFDM transmission mode configurations in a frequency band or aggregated band, SAR is measured using the configuration(s) with the largest channel bandwidth, lowest order modulation, and lowest data rate. If the average RF output powers of the highest identical transmission modes are within 0.25 dB of each other, mid channel of the transmission mode with highest average RF output power is the initial test channel. Otherwise, the channel of the transmission mode with the highest average RF output conducted power will be the initial test configuration.

When the reported SAR is ≤ 0.8 W/kg, no additional measurements on other test channels are required. Otherwise, SAR is evaluated using the subsequent highest average RF output channel until the reported SAR result is ≤ 1.2 W/kg or all channels are measured. When there are multiple untested channels having the same subsequent highest average RF output power, the channel with higher frequency from the lowest 802.11 mode is considered for SAR measurements.

9.6.8 Subsequent Test Configuration Procedures

For OFDM configurations in each frequency band and aggregated band, SAR is evaluated for initial test configuration using the fixed test position or the initial test position procedure. When the highest reported SAR (for the initial test configuration), adjusted by the ratio of the specified maximum output power of the subsequent test configuration to initial test configuration, is ≤ 1.2 W/kg, no additional SAR tests for the subsequent test configurations are required. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

10. RF Average Conducted Output Power

10.1 GSM Average Conducted Output Power

[Maximum Average Output Power]

Maximum Burst-Average Output Power (dBm)										
Band	Channel	GSM	GPRS (GMSK)				EGPRS (8-PSK)			
		Voice	1Tx	2Tx	3Tx	4Tx	1Tx	2Tx	3Tx	4Tx
GSM 850	128	32.18	32.15	30.92	28.93	26.96	26.26	24.47	22.47	21.36
	190	32.21	32.21	31.02	28.79	26.82	26.04	24.53	22.19	21.23
	251	32.09	32.06	30.48	28.59	26.68	26.08	24.16	22.13	21.14
GSM 1900	512	29.25	29.20	27.64	26.16	24.13	25.27	23.75	21.76	20.67
	661	29.32	29.28	27.72	26.24	24.20	25.27	23.72	21.83	20.72
	810	29.28	29.24	27.43	25.99	23.96	25.29	23.63	21.63	20.54

Maximum Frame-Average Output Power (dBm)										
Band	Channel	GSM	GPRS (GMSK)				EGPRS (8-PSK)			
		Voice	1Tx	2Tx	3Tx	4Tx	1Tx	2Tx	3Tx	4Tx
GSM 850	128	23.15	23.12	24.90	24.67	23.95	17.23	18.45	18.21	18.35
	190	23.18	23.18	25.00	24.53	23.81	17.01	18.51	17.93	18.22
	251	23.06	23.03	24.46	24.33	23.67	17.05	18.14	17.87	18.13
GSM 1900	512	20.22	20.17	21.62	21.90	21.12	16.24	17.73	17.50	17.66
	661	20.29	20.25	21.70	21.98	21.19	16.24	17.70	17.57	17.71
	810	20.25	20.21	21.41	21.73	20.95	16.26	17.61	17.37	17.53
GSM 850	Frame	24.97	24.97	25.98	25.74	24.99	18.97	19.98	19.74	19.99
GSM 1900	Avg, Target	21.97	21.97	22.98	22.74	21.99	17.97	18.98	18.74	18.99

[Back-off Average Output Power]

Back-off Burst-Average Output Power (dBm)										
Band	Channel	GSM	GPRS (GMSK)				EGPRS (8-PSK)			
		Voice	1Tx	2Tx	3Tx	4Tx	1Tx	2Tx	3Tx	4Tx
GSM 850	128	23.75	23.74	20.50	18.75	17.49	23.30	20.44	18.57	17.39
	190	23.38	23.36	20.31	18.55	17.32	23.11	20.17	18.33	17.17
	251	23.35	23.34	20.26	18.51	17.26	23.07	20.02	18.16	17.09
GSM 1900	512	19.63	19.63	16.57	14.79	13.57	19.58	16.41	14.57	13.87
	661	19.46	19.46	16.41	14.71	13.47	19.52	16.42	14.69	13.77
	810	19.37	19.37	16.56	14.76	13.57	19.51	16.23	14.50	13.66

Back-off Frame-Average Output Power (dBm)										
Band	Channel	GSM	GPRS (GMSK)				EGPRS (8-PSK)			
		Voice	1Tx	2Tx	3Tx	4Tx	1Tx	2Tx	3Tx	4Tx
GSM 850	128	14.72	14.71	14.48	14.49	14.48	14.27	14.42	14.31	14.38
	190	14.35	14.33	14.29	14.29	14.31	14.08	14.15	14.07	14.16
	251	14.32	14.31	14.24	14.25	14.25	14.04	14.00	13.90	14.08
GSM 1900	512	10.60	10.60	10.55	10.53	10.56	10.55	10.39	10.31	10.86
	661	10.43	10.43	10.39	10.45	10.46	10.49	10.40	10.43	10.76
	810	10.34	10.34	10.54	10.50	10.56	10.48	10.21	10.24	10.65
GSM 850	Frame	15.97	15.97	15.98	15.74	15.99	15.97	15.98	15.74	15.99
GSM 1900	Avg, Target	11.97	11.97	11.98	11.74	11.99	11.97	11.98	11.74	11.99

10.2 WCDMA Average Conducted Output Power

Band	Mode	Max Average Conducted Power (dBm)			MPR [dB]	Back-off Average Conducted Power (dBm)			MPR [dB]
		9 262	9 400	9 538		9 262	9 400	9 538	
		1 852.4 MHz	1 880.0 MHz	1 907.6 MHz		1 852.4 MHz	1 880.0 MHz	1 907.6 MHz	
WCDMA II	RMC	23.11	23.09	23.05	-	11.41	11.61	11.41	-
	AMR	23.10	23.04	22.99	-	11.36	11.58	11.34	-
	HSDPA-Subtest 1	22.02	22.03	22.01	0	10.33	10.49	10.35	0
	HSDPA-Subtest 2	21.22	21.26	21.02	0	9.90	9.94	9.78	0
	HSDPA-Subtest 3	20.73	20.44	20.42	0.5	9.10	9.15	8.78	0.5
	HSDPA-Subtest 4	20.66	20.38	20.12	0.5	8.47	9.17	8.84	0.5
	HSUPA-Subtest 1	22.03	22.07	21.97	0	10.33	10.56	10.40	0
	HSUPA-Subtest 2	20.09	20.10	20.03	2	8.39	8.55	8.35	2
	HSUPA-Subtest 3	21.00	21.01	20.98	1	9.33	9.52	9.38	1
	HSUPA-Subtest 4	20.10	20.11	20.01	2	8.36	8.56	8.42	2
	HSUPA-Subtest 5	22.19	21.99	22.02	0	10.36	10.60	10.54	0
	DC-HSDPA-Subtest 1	22.11	22.13	22.07	0	10.43	10.65	10.51	0
	DC-HSDPA-Subtest 2	22.10	22.08	22.05	0	10.42	10.58	10.42	0
	DC-HSDPA-Subtest 3	21.60	21.56	21.49	0.5	9.89	10.11	9.92	0.5
	DC-HSDPA-Subtest 4	21.57	21.55	21.51	0.5	9.92	10.09	9.95	0.5

Band	Mode	Max Average Conducted Power (dBm)			MPR [dB]	Back-off Average Conducted Power (dBm)			MPR [dB]
		1 312	1 412	1 513		1 312	1 412	1 513	
		1 712.4 MHz	1 732.4 MHz	1 752.6 MHz		1 712.4 MHz	1 732.4 MHz	1 752.6 MHz	
WCDMA IV	RMC	24.15	24.01	24.10	-	13.22	13.21	13.25	-
	AMR	24.13	24.00	24.08	-	13.17	13.14	13.17	-
	HSDPA-Subtest 1	23.00	22.95	22.97	0	11.96	11.93	12.02	0
	HSDPA-Subtest 2	22.21	22.13	22.16	0	11.37	11.37	11.16	0
	HSDPA-Subtest 3	21.35	21.37	21.40	0.5	10.20	10.42	10.46	0.5
	HSDPA-Subtest 4	21.29	21.60	21.27	0.5	10.37	10.29	10.59	0.5
	HSUPA-Subtest 1	23.02	23.00	22.96	0	12.03	11.93	12.03	0
	HSUPA-Subtest 2	20.95	20.98	21.14	2	10.03	10.00	10.05	2
	HSUPA-Subtest 3	22.01	22.03	22.00	1	10.94	10.95	10.91	1
	HSUPA-Subtest 4	20.99	20.96	20.99	2	9.97	9.95	9.99	2
	HSUPA-Subtest 5	23.00	22.99	23.05	0	12.16	12.17	12.11	0
	DC-HSDPA-Subtest 1	23.05	23.00	23.04	0	12.03	12.01	12.05	0
	DC-HSDPA-Subtest 2	23.01	23.01	23.05	0	12.02	11.97	12.07	0
	DC-HSDPA-Subtest 3	22.49	22.51	22.53	0.5	11.49	11.49	11.56	0.5
	DC-HSDPA-Subtest 4	22.51	22.46	22.50	0.5	11.54	11.47	11.53	0.5

Band	Mode	Max Average Conducted Power (dBm)			MPR [dB]	Back-off Average Conducted Power (dBm)			MPR [dB]
		4 132	4 183	4 233		4 132	4 183	4 233	
		826.4 MHz	836.6 MHz	846.6 MHz		826.4 MHz	836.6 MHz	846.6 MHz	
WCDMA V	RMC	23.80	23.75	23.68	-	13.67	13.68	13.54	-
	AMR	23.74	23.74	23.65	-	13.62	13.65	13.53	-
	HSDPA-Subtest 1	22.62	22.62	22.56	0	12.56	12.53	12.53	0
	HSDPA-Subtest 2	22.06	21.83	21.81	0	11.59	11.96	11.81	0
	HSDPA-Subtest 3	21.02	21.04	21.25	0.5	11.05	11.06	11.15	0.5
	HSDPA-Subtest 4	21.07	21.31	21.23	0.5	11.02	11.01	11.06	0.5
	HSUPA-Subtest 1	22.67	22.72	22.64	0	12.58	12.54	12.51	0
	HSUPA-Subtest 2	20.74	20.70	20.71	2	10.57	10.59	10.52	2
	HSUPA-Subtest 3	21.70	21.79	21.82	1	11.57	11.53	11.50	1
	HSUPA-Subtest 4	20.74	20.69	20.61	2	10.58	10.54	10.57	2
	HSUPA-Subtest 5	22.72	22.68	22.67	0	12.53	12.52	12.48	0
	DC-HSDPA-Subtest 1	22.73	22.70	22.67	0	12.53	12.53	12.47	0
	DC-HSDPA-Subtest 2	22.74	22.75	22.68	0	12.54	12.52	12.46	0
	DC-HSDPA-Subtest 3	22.22	22.21	22.15	0.5	12.06	12.07	11.96	0.5
	DC-HSDPA-Subtest 4	22.20	22.23	22.16	0.5	12.04	12.02	11.98	0.5

10.3 LTE Average Conducted Output Power

10.3.1 LTE Band 2(Sub1)

LTE Band 2(Sub1)											
Band width	Modulation	RB Size	RB offset	Max Average Conducted Power (dBm)			MPR [dB]	Back-off Average Conducted Power (dBm)			MPR [dB]
				18 700	18 900	19 100		18 700	18 900	19 100	
				1 860.0 MHz	1 880.0 MHz	1 900.0 MHz		1 860.0 MHz	1 880.0 MHz	1 900.0 MHz	
20 MHz	QPSK	1	0	22.21	22.17	22.24	0	13.09	13.02	13.00	0
		1	49	22.34	22.29	22.38	0	13.10	13.08	13.15	0
		1	99	22.20	21.92	22.16	0	13.09	13.02	13.04	0
		50	0	21.18	21.09	21.15	1	13.13	12.96	13.13	0
		50	24	21.25	21.17	21.33	1	13.15	13.13	13.19	0
		50	50	21.19	21.09	21.14	1	13.14	13.00	13.07	0
		100	0	21.17	21.14	21.20	1	13.03	13.10	13.12	0
	16QAM	1	0	21.28	21.22	21.50	1	13.18	13.22	13.18	0
		1	49	21.28	21.37	21.65	1	13.18	13.05	13.13	0
		1	99	21.37	21.34	21.40	1	13.17	13.02	13.24	0
		50	0	20.28	20.16	20.16	2	13.07	13.09	13.03	0
		50	24	20.25	20.18	20.34	2	13.11	13.10	13.18	0
		50	50	20.20	20.10	20.19	2	13.06	13.00	13.06	0
		100	0	20.14	20.12	20.28	2	13.06	13.06	13.07	0
	64QAM	1	0	20.10	20.19	20.51	2	13.04	13.16	13.18	0
		1	49	20.32	20.16	20.45	2	13.25	13.19	13.18	0
		1	99	20.21	20.08	20.34	2	13.10	13.00	13.12	0
		50	0	19.25	19.15	19.16	3	13.03	13.02	13.11	0
		50	24	19.22	19.18	19.33	3	13.04	13.09	13.13	0
		50	50	19.17	19.08	19.10	3	13.09	13.05	13.03	0
		100	0	19.15	19.11	19.19	3	13.00	13.12	13.15	0
	256QAM	1	0	17.14	17.31	17.07	5	13.06	13.04	12.95	0
		1	49	17.36	17.12	17.35	5	13.16	13.25	13.24	0
		1	99	17.24	17.17	16.94	5	13.13	13.05	12.84	0
		50	0	17.25	17.06	17.23	5	13.11	13.06	13.10	0
		50	24	17.20	17.20	17.34	5	13.04	13.04	13.19	0
		50	50	17.24	17.09	17.19	5	13.03	12.96	13.09	0
		100	0	17.13	17.20	17.16	5	13.08	13.07	13.09	0

LTE Band 2(Sub1)											
Band width	Modulation	RB Size	RB offset	Max Average Conducted Power (dBm)			MPR [dB]	Back-off Average Conducted Power (dBm)			MPR [dB]
				18 675	18 900	19 125		18 675	18 900	19 125	
				1 857.5 MHz	1 880.0 MHz	1 902.5 MHz		1 857.5 MHz	1 880.0 MHz	1 902.5 MHz	
15 MHz	QPSK	1	0	22.01	22.04	21.89	0	12.87	12.90	12.96	0
		1	36	22.19	21.98	22.02	0	12.82	12.81	12.77	0
		1	74	22.36	21.58	21.93	0	12.88	12.91	12.89	0
		36	0	21.08	20.85	21.16	1	12.83	13.01	12.82	0
		36	18	21.13	20.85	21.06	1	13.12	13.07	13.05	0
		36	37	20.96	20.96	21.09	1	12.87	13.00	12.95	0
		75	0	20.92	20.78	21.11	1	13.14	13.05	12.99	0
	16QAM	1	0	20.93	20.73	21.14	1	13.12	13.07	13.16	0
		1	36	20.97	21.16	21.40	1	13.07	13.18	13.09	0
		1	74	21.38	21.10	21.10	1	13.12	13.25	13.02	0
		36	0	19.91	19.90	20.26	2	13.15	13.11	13.17	0
		36	18	20.24	19.91	20.25	2	12.92	12.98	12.90	0
		36	37	20.07	19.88	20.27	2	13.01	13.04	12.96	0
		75	0	20.00	19.77	20.18	2	13.02	13.00	13.00	0
	64QAM	1	0	19.96	20.06	20.50	2	13.13	13.02	13.00	0
		1	36	19.86	20.14	20.27	2	13.02	13.12	13.15	0
		1	74	19.88	20.05	20.18	2	12.91	13.02	12.88	0
		36	0	18.88	19.05	19.14	3	13.08	13.04	12.92	0
		36	18	19.06	18.89	19.03	3	13.13	13.06	13.01	0
		36	37	18.76	18.83	19.14	3	13.04	13.06	13.12	0
		75	0	18.85	18.84	19.03	3	13.17	13.05	13.00	0
	256QAM	1	0	16.76	16.82	17.36	5	13.08	13.12	13.17	0
		1	36	16.85	16.82	16.81	5	13.14	13.05	13.03	0
		1	74	17.28	16.97	17.65	5	13.02	13.06	13.30	0
		36	0	17.07	16.89	17.25	5	12.99	13.04	12.95	0
		36	18	16.96	16.90	17.08	5	13.06	13.05	12.91	0
		36	37	16.95	16.93	17.42	5	12.90	13.02	12.91	0
		75	0	17.00	17.02	17.07	5	12.99	13.04	12.99	0

LTE Band 2(Sub1)											
Band width	Modulation	RB Size	RB offset	Max Average Conducted Power (dBm)			MPR [dB]	Back-off Average Conducted Power (dBm)			MPR [dB]
				18 650	18 900	19 150		18 650	18 900	19 150	
				1 855.0 MHz	1 880.0 MHz	1 905.0 MHz		1 855.0 MHz	1 880.0 MHz	1 905.0 MHz	
10 MHz	QPSK	1	0	22.38	22.22	22.07	0	13.05	13.15	13.15	0
		1	25	22.23	22.27	22.13	0	13.15	13.15	13.13	0
		1	49	22.53	22.17	21.75	0	12.98	13.10	13.05	0
		25	0	21.07	21.01	21.04	1	13.02	13.22	13.06	0
		25	12	21.15	21.10	21.13	1	13.27	13.21	13.19	0
		25	25	21.12	21.16	21.19	1	13.05	13.14	13.06	0
		50	0	21.03	21.01	21.17	1	13.21	13.12	13.06	0
	16QAM	1	0	21.08	21.12	21.20	1	13.31	13.32	13.35	0
		1	25	21.10	21.49	21.49	1	13.34	13.42	13.36	0
		1	49	21.36	21.35	21.17	1	13.36	13.47	13.26	0
		25	0	20.02	20.12	20.29	2	13.19	13.16	13.24	0
		25	12	20.39	20.12	20.13	2	13.14	13.19	13.06	0
		25	25	20.09	20.11	20.27	2	13.16	13.17	13.13	0
		50	0	19.96	20.01	20.28	2	13.12	13.13	13.12	0
	64QAM	1	0	20.07	20.17	20.42	2	13.41	13.24	13.17	0
		1	25	20.00	20.21	20.12	2	13.26	13.35	13.40	0
		1	49	19.96	20.20	20.19	2	13.07	13.17	13.00	0
		25	0	18.96	19.22	19.08	3	13.16	13.12	13.08	0
		25	12	19.34	19.17	19.08	3	13.20	13.15	13.08	0
		25	25	18.94	19.23	19.24	3	13.15	13.15	13.21	0
		50	0	19.08	19.18	19.04	3	13.38	13.26	13.26	0
	256QAM	1	0	17.06	17.29	17.65	5	13.29	13.27	13.41	0
		1	25	17.02	16.99	16.78	5	13.37	13.27	13.25	0
		1	49	17.12	17.12	17.48	5	13.06	13.09	13.28	0
		25	0	17.12	17.04	17.19	5	13.11	13.21	13.15	0
		25	12	16.94	17.08	17.03	5	13.16	13.15	12.97	0
		25	25	17.09	17.10	17.25	5	12.96	13.04	12.88	0
		50	0	16.99	17.12	16.97	5	13.17	13.21	13.24	0

LTE Band 2(Sub1)											
Band width	Modulation	RB Size	RB offset	Max Average Conducted Power (dBm)			MPR [dB]	Back-off Average Conducted Power (dBm)			MPR [dB]
				18 625	18 900	19 175		18 625	18 900	19 175	
				1 852.5 MHz	1 880.0 MHz	1 907.5 MHz		1 852.5 MHz	1 880.0 MHz	1 907.5 MHz	
5 MHz	QPSK	1	0	22.33	22.19	22.17	0	12.96	13.08	13.12	0
		1	12	22.47	22.37	22.13	0	13.41	13.36	13.28	0
		1	24	22.59	22.14	22.18	0	13.10	13.12	13.05	0
		12	0	21.13	21.22	21.35	1	12.92	13.14	13.01	0
		12	7	21.27	21.31	21.32	1	13.18	13.16	13.10	0
		12	13	21.03	21.25	21.21	1	12.96	13.09	13.00	0
		25	0	21.09	21.26	21.27	1	13.23	13.11	13.04	0
	16QAM	1	0	21.24	21.22	21.36	1	13.40	13.36	13.36	0
		1	12	21.25	21.70	21.73	1	13.30	13.41	13.31	0
		1	24	21.56	21.47	21.31	1	13.33	13.47	13.28	0
		12	0	19.95	20.35	20.51	2	13.12	13.10	13.17	0
		12	7	20.33	20.20	20.30	2	13.23	13.19	13.11	0
		12	13	20.11	20.30	20.41	2	13.06	13.16	13.08	0
		25	0	20.09	20.16	20.49	2	13.08	13.12	13.07	0
	64QAM	1	0	20.12	20.40	20.69	2	13.13	13.04	13.07	0
		1	12	19.85	20.37	20.35	2	13.31	13.36	13.32	0
		1	24	19.94	20.20	20.28	2	13.16	13.21	13.09	0
		12	0	19.06	19.34	19.25	3	13.06	13.09	13.05	0
		12	7	19.30	19.32	19.38	3	13.14	13.09	13.00	0
		12	13	18.83	19.23	19.32	3	12.97	12.99	13.01	0
		25	0	19.09	19.35	19.24	3	13.31	13.16	13.17	0
	256QAM	1	0	17.20	17.11	17.48	5	13.21	13.20	13.26	0
		1	12	17.04	17.29	17.05	5	13.30	13.25	13.28	0
		1	24	17.23	17.25	17.70	5	13.25	13.28	13.46	0
		12	0	17.14	17.27	17.47	5	13.12	13.14	13.09	0
		12	7	17.07	17.21	17.30	5	13.11	13.08	12.89	0
		12	13	17.04	17.16	17.41	5	13.07	13.12	13.00	0
		25	0	17.00	17.33	17.26	5	13.18	13.21	13.20	0

LTE Band 2(Sub1)											
Band width	Modulation	RB Size	RB offset	Max Average Conducted Power (dBm)			MPR [dB]	Back-off Average Conducted Power (dBm)			MPR [dB]
				18 615	18 900	19 185		18 615	18 900	19 185	
				1 851.5 MHz	1 880.0 MHz	1 908.5 MHz		1 851.5 MHz	1 880.0 MHz	1 908.5 MHz	
3 MHz	QPSK	1	0	22.21	22.16	21.94	0	12.97	13.02	13.00	0
		1	8	22.30	22.42	22.23	0	13.23	13.17	13.12	0
		1	14	22.56	21.95	22.06	0	12.96	13.00	12.95	0
		8	0	21.29	21.18	21.32	1	12.93	13.09	12.95	0
		8	4	21.28	21.06	21.15	1	13.13	13.09	13.01	0
		8	7	21.21	21.25	21.33	1	12.99	13.12	13.07	0
		15	0	21.23	21.09	21.32	1	13.20	13.09	13.12	0
	16QAM	1	0	21.46	21.34	21.42	1	13.41	13.37	13.40	0
		1	8	21.23	21.48	21.50	1	13.24	13.33	13.22	0
		1	14	21.56	21.24	21.15	1	13.10	13.25	13.03	0
		8	0	20.09	20.22	20.45	2	13.13	13.08	13.17	0
		8	4	20.45	20.09	20.22	2	13.10	13.11	13.08	0
		8	7	20.23	20.18	20.44	2	13.10	13.18	13.08	0
		15	0	20.23	20.13	20.48	2	13.20	13.16	13.13	0
	64QAM	1	0	20.19	20.21	20.55	2	13.19	13.06	13.01	0
		1	8	20.15	20.39	20.52	2	13.28	13.32	13.36	0
		1	14	20.16	20.24	20.28	2	13.00	13.15	12.99	0
		8	0	19.15	19.32	19.32	3	13.15	13.16	13.06	0
		8	4	19.44	19.23	19.26	3	13.18	13.17	13.14	0
		8	7	19.23	19.29	19.44	3	12.96	13.05	13.12	0
		15	0	19.16	19.23	19.24	3	13.32	13.15	13.14	0
	256QAM	1	0	17.02	17.26	17.65	5	13.03	13.09	13.15	0
		1	8	17.17	17.17	17.00	5	13.32	13.26	13.26	0
		1	14	17.39	17.12	17.65	5	13.00	13.10	13.35	0
		8	0	17.28	17.19	17.45	5	13.15	13.15	13.14	0
		8	4	17.27	17.27	17.36	5	13.21	13.22	13.08	0
		8	7	17.12	17.12	17.54	5	13.13	13.15	13.05	0
		15	0	17.19	17.22	17.23	5	13.12	13.12	13.13	0

LTE Band 2(Sub1)											
Band width	Modulation	RB Size	RB offset	Max Average Conducted Power (dBm)			MPR [dB]	Back-off Average Conducted Power (dBm)			MPR [dB]
				18 607	18 900	19 193		18 607	18 900	19 193	
				1 850.7 MHz	1 880.0 MHz	1 909.3 MHz		1 850.7 MHz	1 880.0 MHz	1 909.3 MHz	
1.4 MHz	QPSK	1	0	22.32	22.15	22.09	0	13.13	13.20	13.27	0
		1	3	22.31	22.65	22.22	0	13.21	13.17	13.14	0
		1	5	22.28	22.06	22.08	0	12.91	13.02	13.02	0
		3	0	22.12	22.15	22.02	0	12.91	13.12	12.97	0
		3	1	22.24	22.34	22.20	0	13.16	13.10	13.06	0
		3	3	22.13	22.20	22.23	0	13.00	13.13	13.03	0
		6	0	21.22	21.10	21.21	1	13.24	13.14	13.10	0
	16QAM	1	0	21.23	21.27	21.43	1	13.25	13.21	13.20	0
		1	3	21.27	21.69	21.80	1	13.10	13.28	13.21	0
		1	5	21.27	21.18	20.97	1	13.12	13.25	13.03	0
		3	0	21.06	21.45	21.60	1	13.25	13.20	13.22	0
		3	1	21.47	21.30	21.48	1	13.29	13.28	13.16	0
		3	3	21.05	21.27	21.39	1	13.22	13.23	13.16	0
		6	0	20.05	20.22	20.51	2	13.26	13.29	13.32	0
	64QAM	1	0	20.04	20.27	20.54	2	13.29	13.22	13.17	0
		1	3	19.75	20.32	20.32	2	13.14	13.20	13.20	0
		1	5	19.82	20.18	20.26	2	13.15	13.28	13.21	0
		3	0	20.04	20.49	20.39	2	13.30	13.26	13.22	0
		3	1	20.38	20.30	20.33	2	13.39	13.32	13.31	0
		3	3	20.05	20.37	20.40	2	13.00	13.08	13.13	0
		6	0	19.01	19.20	19.31	3	13.21	13.10	13.04	0
	256QAM	1	0	17.03	17.33	17.76	5	13.27	13.25	13.35	0
		1	3	16.99	17.14	16.98	5	13.40	13.28	13.28	0
		1	5	17.19	17.16	17.60	5	12.99	13.11	13.31	0
		3	0	17.25	17.35	17.52	5	13.21	13.26	13.24	0
		3	1	17.06	17.24	17.26	5	13.27	13.24	13.08	0
		3	3	17.15	17.24	17.56	5	13.07	13.18	13.10	0
		6	0	17.02	17.29	17.13	5	13.03	13.08	13.01	0

10.3.2 LTE Band 5

LTE Band 5							
Band width	Modulation	RB Size	RB offset	Max Average Conducted Power (dBm)	MPR [dB]	Back-off Average Conducted Power (dBm)	MPR [dB]
				20 525		20 525	
				836.5 MHz		836.5 MHz	
10 MHz	QPSK	1	0	23.74	0	14.68	0
		1	25	23.76	0	14.75	0
		1	49	23.66	0	14.66	0
		25	0	22.71	1	14.74	0
		25	12	22.73	1	14.80	0
		25	25	22.72	1	14.73	0
		50	0	22.69	1	14.74	0
	16QAM	1	0	22.93	1	15.04	0
		1	25	22.92	1	15.00	0
		1	49	22.65	1	15.02	0
		25	0	21.78	2	14.73	0
		25	12	21.73	2	14.73	0
		25	25	21.76	2	14.72	0
		50	0	21.70	2	14.70	0
	64QAM	1	0	21.98	2	14.95	0
		1	25	21.93	2	14.90	0
		1	49	21.78	2	14.80	0
		25	0	20.65	3	14.71	0
		25	12	20.67	3	14.69	0
		25	25	20.70	3	14.73	0
		50	0	20.66	3	14.71	0
	256QAM	1	0	18.59	5	14.80	0
		1	25	18.90	5	14.84	0
		1	49	18.77	5	14.70	0
		25	0	18.71	5	14.68	0
		25	12	18.76	5	14.69	0
		25	25	18.76	5	14.72	0
		50	0	18.68	5	14.73	0

10 MHz Bandwidths does not support at least three non-overlapping channels in certain channel bandwidths. 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 per KDB 941225 D05 SAR for LTE Devices.

LTE Band 5											
Band width	Modulation	RB Size	RB offset	Max Average Conducted Power (dBm)			MPR [dB]	Back-off Average Conducted Power (dBm)			MPR [dB]
				20 425	20 525	20 625		20 425	20 525	20 625	
				826.5 MHz	836.5 MHz	846.5 MHz		826.5 MHz	836.5 MHz	846.5 MHz	
5 MHz	QPSK	1	0	23.72	23.61	23.62	0	14.66	14.68	14.62	0
		1	12	23.79	23.78	23.72	0	14.69	14.82	14.63	0
		1	24	23.71	23.70	23.58	0	14.63	14.65	14.68	0
		12	0	22.69	22.61	22.56	1	14.65	14.77	14.61	0
		12	7	22.77	22.70	22.70	1	14.76	14.73	14.76	0
		12	13	22.71	22.73	22.65	1	14.67	14.80	14.71	0
		25	0	22.77	22.67	22.67	1	14.66	14.67	14.72	0
	16QAM	1	0	22.90	22.75	22.82	1	15.03	14.92	14.89	0
		1	12	22.85	22.95	22.90	1	15.09	15.15	14.99	0
		1	24	22.80	22.95	22.79	1	14.89	14.89	14.99	0
		12	0	21.71	21.72	21.59	2	14.77	14.68	14.62	0
		12	7	21.77	21.70	21.70	2	14.86	14.67	14.77	0
		12	13	21.74	21.77	21.67	2	14.67	14.68	14.72	0
		25	0	21.76	21.67	21.66	2	14.74	14.68	14.70	0
	64QAM	1	0	21.97	22.10	21.92	2	14.86	14.87	14.80	0
		1	12	21.91	22.11	21.82	2	14.92	14.97	14.89	0
		1	24	21.84	21.79	21.67	2	14.72	14.62	14.76	0
		12	0	20.63	20.63	20.59	3	14.73	14.79	14.67	0
		12	7	20.80	20.67	20.77	3	14.75	14.68	14.70	0
		12	13	20.75	20.81	20.68	3	14.74	14.79	14.70	0
		25	0	20.82	20.64	20.72	3	14.74	14.64	14.68	0
	256QAM	1	0	18.77	18.69	18.69	5	14.85	14.69	14.65	0
		1	12	18.99	18.91	18.95	5	14.82	14.96	14.73	0
		1	24	18.76	18.86	18.80	5	14.78	14.76	14.80	0
		12	0	18.67	18.76	18.65	5	14.64	14.74	14.71	0
		12	7	18.80	18.72	18.75	5	14.78	14.69	14.76	0
		12	13	18.71	18.80	18.62	5	14.78	14.77	14.73	0
		25	0	18.71	18.72	18.68	5	14.75	14.70	14.69	0

LTE Band 5											
Band width	Modulation	RB Size	RB offset	Max Average Conducted Power (dBm)			MPR [dB]	Back-off Average Conducted Power (dBm)			MPR [dB]
				20 415	20 525	20 635		20 415	20 525	20 635	
				825.5 MHz	836.5 MHz	847.5 MHz		825.5 MHz	836.5 MHz	847.5 MHz	
3 MHz	QPSK	1	0	23.64	23.64	23.60	0	14.63	14.63	14.61	0
		1	8	23.79	23.80	23.71	0	14.63	14.80	14.65	0
		1	14	23.69	23.65	23.58	0	14.58	14.63	14.55	0
		8	0	22.75	22.68	22.58	1	14.69	14.62	14.57	0
		8	4	22.74	22.68	22.62	1	14.72	14.76	14.66	0
		8	7	22.73	22.74	22.66	1	14.73	14.71	14.63	0
		15	0	22.75	22.70	22.58	1	14.70	14.66	14.56	0
	16QAM	1	0	22.93	22.80	22.65	1	14.91	15.01	14.86	0
		1	8	22.91	22.97	22.77	1	15.07	15.04	15.06	0
		1	14	22.89	22.76	22.80	1	14.97	14.89	14.97	0
		8	0	21.81	21.69	21.57	2	14.80	14.73	14.62	0
		8	4	21.77	21.77	21.62	2	14.87	14.69	14.68	0
		8	7	21.76	21.72	21.67	2	14.85	14.83	14.79	0
		15	0	21.69	21.72	21.62	2	14.71	14.66	14.56	0
	64QAM	1	0	21.93	21.93	21.94	2	14.80	14.79	14.79	0
		1	8	22.03	21.85	21.91	2	14.90	14.94	14.78	0
		1	14	21.88	21.72	21.72	2	14.69	14.88	14.63	0
		8	0	20.75	20.70	20.60	3	14.75	14.70	14.55	0
		8	4	20.85	20.79	20.73	3	14.87	14.75	14.66	0
		8	7	20.82	20.70	20.69	3	14.69	14.75	14.66	0
		15	0	20.70	20.80	20.70	3	14.80	14.70	14.61	0
	256QAM	1	0	18.78	18.86	18.71	5	14.68	14.57	14.71	0
		1	8	18.97	18.99	18.76	5	14.97	14.79	14.79	0
		1	14	18.71	18.78	18.65	5	14.72	14.73	14.80	0
		8	0	18.78	18.76	18.65	5	14.80	14.64	14.66	0
		8	4	18.83	18.75	18.64	5	14.82	14.68	14.56	0
		8	7	18.71	18.74	18.63	5	14.81	14.82	14.66	0
		15	0	18.77	18.70	18.60	5	14.81	14.64	14.60	0

LTE Band 5											
Band width	Modulation	RB Size	RB offset	Max Average Conducted Power (dBm)			MPR [dB]	Back-off Average Conducted Power (dBm)			MPR [dB]
				20 407	20 525	20 643		20 407	20 525	20 643	
				824.7 MHz	836.5 MHz	848.3 MHz		824.7 MHz	836.5 MHz	848.3 MHz	
1.4 MHz	QPSK	1	0	23.71	23.72	23.60	0	14.58	14.58	14.63	0
		1	3	23.76	23.78	23.68	0	14.63	14.78	14.60	0
		1	5	23.78	23.76	23.62	0	14.59	14.74	14.57	0
		3	0	23.73	23.72	23.65	0	14.61	14.66	14.66	0
		3	1	23.75	23.75	23.65	0	14.66	14.64	14.71	0
		3	3	23.80	23.72	23.61	0	14.64	14.79	14.57	0
		6	0	22.69	22.66	22.62	1	14.66	14.59	14.67	0
	16QAM	1	0	22.91	22.90	22.73	1	15.10	15.05	14.99	0
		1	3	22.90	22.76	22.89	1	15.13	14.96	15.11	0
		1	5	22.71	22.93	22.75	1	14.93	14.98	14.80	0
		3	0	22.86	22.73	22.68	1	14.79	14.73	14.70	0
		3	1	22.87	22.72	22.68	1	14.83	14.78	14.65	0
		3	3	22.86	22.80	22.74	1	14.87	14.73	14.75	0
		6	0	21.77	21.63	21.61	2	14.77	14.63	14.65	0
	64QAM	1	0	21.96	21.95	21.83	2	14.81	14.87	14.86	0
		1	3	21.93	21.94	21.77	2	14.91	14.83	14.80	0
		1	5	21.93	21.87	21.78	2	14.88	14.83	14.68	0
		3	0	21.74	21.78	21.75	2	14.92	14.67	14.65	0
		3	1	21.91	21.91	21.72	2	14.85	14.80	14.75	0
		3	3	21.96	21.89	21.79	2	14.71	14.73	14.63	0
		6	0	20.75	20.68	20.73	3	14.76	14.61	14.71	0
	256QAM	1	0	18.90	18.67	18.62	5	14.80	14.74	14.74	0
		1	3	18.92	18.89	18.83	5	14.89	14.71	14.78	0
		1	5	18.80	18.91	18.64	5	14.77	14.74	14.74	0
		3	0	18.86	18.76	18.75	5	14.77	14.64	14.67	0
		3	1	18.74	18.94	18.83	5	14.75	14.73	14.76	0
		3	3	18.78	18.74	18.80	5	14.65	14.91	14.63	0
		6	0	18.78	18.63	18.72	5	14.65	14.64	14.68	0

10.3.3 LTE Band 12

LTE Band 12							
Band width	Modulation	RB Size	RB offset	Max Average Conducted Power (dBm)	MPR [dB]	Back-off Average Conducted Power (dBm)	MPR [dB]
				23 095		23 095	
				707.5 MHz		707.5 MHz	
10 MHz	QPSK	1	0	23.76	0	15.72	0
		1	25	23.72	0	15.68	0
		1	49	23.69	0	15.65	0
		25	0	22.64	1	15.67	0
		25	12	22.73	1	15.65	0
		25	25	22.75	1	15.72	0
		50	0	22.74	1	15.71	0
	16QAM	1	0	22.97	1	15.82	0
		1	25	22.78	1	15.73	0
		1	49	22.90	1	15.80	0
		25	0	21.69	2	15.70	0
		25	12	21.74	2	15.73	0
		25	25	21.69	2	15.68	0
		50	0	21.74	2	15.76	0
	64QAM	1	0	21.70	2	15.69	0
		1	25	21.92	2	15.86	0
		1	49	22.03	2	15.61	0
		25	0	20.61	3	15.55	0
		25	12	20.69	3	15.56	0
		25	25	20.73	3	15.60	0
		50	0	20.76	3	15.57	0
	256QAM	1	0	18.62	5	15.39	0
		1	25	18.66	5	15.66	0
		1	49	18.70	5	15.69	0
		25	0	18.64	5	15.78	0
		25	12	18.66	5	15.63	0
		25	25	18.67	5	15.78	0
		50	0	18.63	5	15.79	0

10 MHz Bandwidths does not support at least three non-overlapping channels in certain channel bandwidths. 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 per KDB 941225 D05 SAR for LTE Devices.

LTE Band 12											
Band width	Modulation	RB Size	RB offset	Max Average Conducted Power (dBm)			MPR [dB]	Back-off Average Conducted Power (dBm)			MPR [dB]
				23 035	23 095	23 155		23 035	23 095	23 155	
				701.5 MHz	707.5 MHz	713.5 MHz		701.5 MHz	707.5 MHz	713.5 MHz	
5 MHz	QPSK	1	0	23.77	23.61	23.80	0	15.67	15.57	15.70	0
		1	12	23.85	23.69	23.89	0	15.80	15.65	15.78	0
		1	24	23.70	23.73	23.83	0	15.67	15.74	15.65	0
		12	0	22.77	22.58	22.78	1	15.74	15.61	15.72	0
		12	7	22.84	22.74	22.91	1	15.75	15.67	15.84	0
		12	13	22.73	22.74	22.87	1	15.72	15.62	15.79	0
		25	0	22.76	22.71	22.86	1	15.76	15.72	15.83	0
	16QAM	1	0	22.86	22.73	23.10	1	15.63	15.78	15.84	0
		1	12	22.92	23.05	23.13	1	15.75	15.76	16.02	0
		1	24	22.86	22.83	23.10	1	15.73	15.79	15.93	0
		12	0	21.79	21.63	21.73	2	15.77	15.61	15.73	0
		12	7	21.80	21.71	21.88	2	15.77	15.80	15.86	0
		12	13	21.72	21.67	21.82	2	15.72	15.68	15.81	0
		25	0	21.79	21.74	21.87	2	15.82	15.71	15.83	0
	64QAM	1	0	21.86	21.91	22.02	2	15.89	15.91	15.92	0
		1	12	21.87	21.86	21.99	2	16.03	16.01	15.69	0
		1	24	21.75	21.72	21.86	2	15.78	15.98	15.73	0
		12	0	20.75	20.62	20.74	3	15.85	15.71	15.73	0
		12	7	20.83	20.71	20.81	3	15.70	15.81	15.76	0
		12	13	20.67	20.65	20.82	3	15.78	15.57	15.75	0
		25	0	20.74	20.65	20.83	3	15.87	15.68	15.85	0
	256QAM	1	0	18.71	18.58	18.70	5	15.17	15.71	15.45	0
		1	12	18.75	18.88	18.78	5	15.50	15.54	15.93	0
		1	24	18.59	18.82	18.72	5	15.45	15.61	15.95	0
		12	0	18.75	18.57	18.77	5	15.66	15.48	15.76	0
		12	7	18.70	18.64	18.84	5	15.71	15.86	15.83	0
		12	13	18.74	18.61	18.79	5	15.71	15.80	15.79	0
		25	0	18.64	18.61	18.69	5	15.79	15.70	15.88	0

LTE Band 12											
Band width	Modulation	RB Size	RB offset	Max Average Conducted Power (dBm)			MPR [dB]	Back-off Average Conducted Power (dBm)			MPR [dB]
				23 025	23 095	23 165		23 025	23 095	23 165	
				700.5 MHz	707.5 MHz	714.5 MHz		700.5 MHz	707.5 MHz	714.5 MHz	
3 MHz	QPSK	1	0	23.75	23.63	23.79	0	15.69	15.62	15.81	0
		1	8	23.79	23.73	23.86	0	15.74	15.62	15.87	0
		1	14	23.71	23.64	23.78	0	15.62	15.60	15.77	0
		8	0	22.78	22.62	22.76	1	15.72	15.59	15.73	0
		8	4	22.84	22.72	22.88	1	15.79	15.66	15.85	0
		8	7	22.73	22.69	22.88	1	15.70	15.63	15.81	0
		15	0	22.78	22.71	22.77	1	15.77	15.66	15.74	0
	16QAM	1	0	22.84	22.67	22.93	1	15.98	15.75	15.85	0
		1	8	22.93	22.80	23.09	1	16.10	15.87	16.09	0
		1	14	22.91	23.02	22.95	1	15.73	15.80	15.93	0
		8	0	21.88	21.66	21.82	2	15.78	15.61	15.78	0
		8	4	21.84	21.72	21.94	2	15.82	15.66	15.88	0
		8	7	21.80	21.78	21.92	2	15.77	15.67	15.85	0
		15	0	21.78	21.70	21.84	2	15.80	15.68	15.74	0
	64QAM	1	0	21.60	21.73	21.97	2	15.84	15.89	16.04	0
		1	8	21.75	21.96	22.08	2	15.92	15.91	15.87	0
		1	14	21.69	21.62	21.89	2	15.89	15.81	15.78	0
		8	0	20.71	20.61	20.77	3	15.83	15.60	15.77	0
		8	4	20.86	20.62	20.80	3	15.76	15.65	15.85	0
		8	7	20.64	20.67	20.84	3	15.79	15.70	15.81	0
		15	0	20.71	20.64	20.75	3	15.80	15.68	15.65	0
	256QAM	1	0	18.77	18.59	18.57	5	15.77	15.49	15.59	0
		1	8	18.92	18.66	18.93	5	15.83	15.87	15.93	0
		1	14	18.71	18.55	18.70	5	15.51	15.51	15.62	0
		8	0	18.63	18.58	18.71	5	15.75	15.73	15.77	0
		8	4	18.71	18.69	18.84	5	15.67	15.66	15.87	0
		8	7	18.79	18.64	18.86	5	15.80	15.71	15.79	0
		15	0	18.65	18.63	18.71	5	15.80	15.65	15.83	0

LTE Band 12											
Band width	Modulation	RB Size	RB offset	Max Average Conducted Power (dBm)			MPR [dB]	Back-off Average Conducted Power (dBm)			MPR [dB]
				23 017	23 095	23 173		23 017	23 095	23 173	
				699.7 MHz	707.5 MHz	715.3 MHz		699.7 MHz	707.5 MHz	715.3 MHz	
1.4 MHz	QPSK	1	0	23.75	23.63	23.80	0	15.71	15.56	15.74	0
		1	3	23.72	23.65	23.91	0	15.67	15.60	15.82	0
		1	5	23.75	23.69	23.84	0	15.60	15.62	15.71	0
		3	0	23.76	23.65	23.82	0	15.71	15.60	15.73	0
		3	1	23.74	23.70	23.88	0	15.69	15.56	15.73	0
		3	3	23.75	23.66	23.81	0	15.63	15.59	15.75	0
		6	0	22.74	22.67	22.75	1	15.71	15.63	15.70	0
	16QAM	1	0	22.83	22.85	23.06	1	15.72	15.63	15.73	0
		1	3	23.03	22.85	23.10	1	15.89	15.80	15.93	0
		1	5	22.73	22.79	22.96	1	15.99	15.90	15.89	0
		3	0	22.83	22.68	22.93	1	15.79	15.63	15.92	0
		3	1	22.82	22.67	22.94	1	15.79	15.68	15.88	0
		3	3	22.77	22.68	22.87	1	15.73	15.64	15.88	0
		6	0	21.81	21.65	21.73	2	15.76	15.68	15.73	0
	64QAM	1	0	21.98	21.87	21.86	2	15.83	15.56	15.92	0
		1	3	21.77	21.71	21.82	2	16.05	15.74	16.11	0
		1	5	21.80	21.63	21.81	2	15.80	15.91	15.83	0
		3	0	21.78	21.68	21.72	2	15.82	15.73	15.83	0
		3	1	21.82	21.65	21.92	2	15.78	15.67	15.79	0
		3	3	21.79	21.72	21.88	2	15.78	15.60	15.85	0
		6	0	20.75	20.58	20.76	3	15.81	15.61	15.85	0
	256QAM	1	0	18.81	18.68	18.78	5	15.65	15.43	15.50	0
		1	3	18.73	18.64	18.98	5	15.85	15.47	15.75	0
		1	5	18.64	18.61	18.95	5	15.87	15.60	15.69	0
		3	0	18.71	18.69	18.70	5	15.86	15.58	15.83	0
		3	1	18.71	18.64	18.74	5	15.63	15.65	15.95	0
		3	3	18.63	18.56	18.84	5	15.65	15.67	16.02	0
		6	0	18.68	18.64	18.77	5	15.74	15.77	15.67	0

10.3.4 LTE Band 13

LTE Band 13							
Band width	Modulation	RB Size	RB offset	Max Average Conducted Power (dBm)	MPR [dB]	Back-off Average Conducted Power (dBm)	MPR [dB]
				23 230		23 230	
				782.0 MHz		782.0 MHz	
10 MHz	QPSK	1	0	24.03	0	14.04	0
		1	25	23.96	0	13.76	0
		1	49	23.91	0	13.64	0
		25	0	23.02	1	13.94	0
		25	12	23.01	1	13.84	0
		25	25	22.90	1	13.83	0
		50	0	22.95	1	13.90	0
	16QAM	1	0	23.38	1	14.29	0
		1	25	23.02	1	14.00	0
		1	49	22.92	1	13.76	0
		25	0	22.04	2	13.93	0
		25	12	22.01	2	13.84	0
		25	25	21.97	2	13.81	0
		50	0	21.98	2	13.84	0
	64QAM	1	0	22.19	2	14.08	0
		1	25	22.05	2	13.90	0
		1	49	21.90	2	13.69	0
		25	0	20.98	3	13.90	0
		25	12	20.98	3	13.87	0
		25	25	20.93	3	13.75	0
		50	0	20.94	3	13.88	0
	256QAM	1	0	19.12	5	13.92	0
		1	25	18.95	5	13.96	0
		1	49	18.82	5	13.90	0
		25	0	19.04	5	13.83	0
		25	12	18.98	5	13.91	0
		25	25	18.92	5	13.76	0
		50	0	18.96	5	13.80	0

LTE Band 13							
Band width	Modulation	RB Size	RB offset	Max Average Conducted Power (dBm)	MPR [dB]	Back-off Average Conducted Power (dBm)	MPR [dB]
				23 230		23 230	
				782.0 MHz		782.0 MHz	
5 MHz	QPSK	1	0	23.97	0	13.81	0
		1	12	24.04	0	13.98	0
		1	24	23.83	0	13.72	0
		12	0	22.95	1	13.88	0
		12	7	23.04	1	13.84	0
		12	13	22.92	1	13.81	0
		25	0	22.94	1	13.81	0
	16QAM	1	0	23.05	1	14.21	0
		1	12	23.05	1	14.17	0
		1	24	22.94	1	14.22	0
		12	0	21.99	2	13.87	0
		12	7	22.00	2	13.84	0
		12	13	21.97	2	13.78	0
		25	0	21.93	2	13.79	0
	64QAM	1	0	22.05	2	13.88	0
		1	12	22.09	2	13.95	0
		1	24	22.01	2	13.84	0
		12	0	20.97	3	13.82	0
		12	7	20.92	3	13.80	0
		12	13	20.81	3	13.78	0
		25	0	20.95	3	13.85	0
	256QAM	1	0	19.01	5	13.91	0
		1	12	19.14	5	13.89	0
		1	24	18.74	5	13.81	0
		12	0	18.89	5	13.82	0
		12	7	18.96	5	13.82	0
		12	13	18.84	5	13.76	0
		25	0	18.86	5	13.76	0

5 MHz Bandwidths does not support at least three non-overlapping channels in certain channel bandwidths. 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 per KDB 941225 D05 SAR for LTE Devices.

10.3.5 LTE Band 25

LTE Band 25											
Band width	Modulation	RB Size	RB offset	Max Average Conducted Power (dBm)			MPR [dB]	Back-off Average Conducted Power (dBm)			MPR [dB]
				26 140	26 365	26 590		26 140	26 365	26 590	
				1 860.0 MHz	1 882.5 MHz	1 905.0 MHz		1 860.0 MHz	1 882.5 MHz	1 905.0 MHz	
20 MHz	QPSK	1	0	23.10	22.99	22.84	0	11.30	11.09	11.26	0
		1	49	22.97	22.77	22.71	0	11.40	11.24	11.27	0
		1	99	23.04	22.87	22.59	0	11.21	11.20	11.18	0
		50	0	22.03	21.93	21.95	1	11.35	11.23	11.29	0
		50	24	21.96	21.80	21.88	1	11.50	11.36	11.32	0
		50	50	21.99	21.89	21.84	1	11.41	11.22	11.28	0
		100	0	21.99	21.87	21.95	1	11.39	11.30	11.26	0
	16QAM	1	0	22.18	22.00	22.06	1	11.41	11.37	11.39	0
		1	49	22.14	22.12	22.07	1	11.53	11.46	11.34	0
		1	99	22.11	21.97	22.10	1	11.54	11.41	11.33	0
		50	0	21.01	20.87	20.75	2	11.33	11.21	11.22	0
		50	24	21.01	20.91	20.86	2	11.33	11.23	11.19	0
		50	50	20.99	20.99	20.87	2	11.28	11.24	11.21	0
		100	0	20.96	20.95	20.90	2	11.32	11.16	11.26	0
	64QAM	1	0	20.98	20.78	20.74	2	11.42	11.27	11.33	0
		1	49	20.99	20.96	20.89	2	11.25	11.29	11.30	0
		1	99	21.18	20.91	20.83	2	11.25	11.25	11.13	0
		50	0	20.00	19.87	19.85	3	11.30	11.18	11.14	0
		50	24	19.98	19.92	19.87	3	11.28	11.23	11.13	0
		50	50	20.01	19.89	19.84	3	11.25	11.18	11.07	0
		100	0	19.98	19.90	19.90	3	11.27	11.20	11.16	0
	256QAM	1	0	18.01	17.73	17.71	5	11.14	11.21	11.11	0
		1	49	18.11	17.95	17.92	5	11.30	11.39	11.24	0
		1	99	18.10	17.97	17.99	5	11.41	11.22	11.26	0
		50	0	17.98	17.83	17.77	5	11.20	11.08	11.05	0
		50	24	17.99	17.93	17.90	5	11.33	11.25	11.20	0
		50	50	17.89	17.87	17.84	5	11.33	11.24	11.15	0
		100	0	17.98	17.91	17.86	5	11.24	11.19	11.20	0

LTE Band 25											
Band width	Modulation	RB Size	RB offset	Max Average Conducted Power (dBm)			MPR [dB]	Back-off Average Conducted Power (dBm)			MPR [dB]
				26 115	26 365	26 615		26 115	26 365	26 615	
				1 857.5 MHz	1 882.5 MHz	1 907.5 MHz		1 857.5 MHz	1 882.5 MHz	1 907.5 MHz	
15 MHz	QPSK	1	0	22.87	22.79	22.85	0	11.25	11.12	11.17	0
		1	36	23.01	22.74	22.79	0	11.38	11.21	11.20	0
		1	74	22.98	22.84	22.77	0	11.42	11.13	11.02	0
		36	0	21.99	21.84	21.80	1	11.45	11.25	11.22	0
		36	18	21.99	21.91	21.85	1	11.36	11.21	11.27	0
		36	37	22.03	21.90	21.88	1	11.40	11.37	11.28	0
		75	0	21.93	21.92	21.85	1	11.44	11.31	11.28	0
	16QAM	1	0	21.92	22.15	21.88	1	11.36	11.38	11.30	0
		1	36	22.14	22.01	21.91	1	11.45	11.53	11.38	0
		1	74	22.03	21.95	21.99	1	11.47	11.40	11.30	0
		36	0	20.96	20.79	20.77	2	11.33	11.14	11.12	0
		36	18	21.00	20.94	20.86	2	11.31	11.15	11.20	0
		36	37	20.96	20.97	20.90	2	11.29	11.24	11.19	0
		75	0	21.07	20.96	20.94	2	11.30	11.27	11.29	0
	64QAM	1	0	21.04	20.78	20.88	2	11.32	11.21	11.20	0
		1	36	21.02	21.01	20.86	2	11.33	11.20	11.24	0
		1	74	21.16	20.86	21.04	2	11.34	11.15	11.16	0
		36	0	19.98	19.87	19.78	3	11.34	11.16	11.10	0
		36	18	20.00	19.84	19.84	3	11.23	11.18	11.12	0
		36	37	20.05	19.88	19.91	3	11.28	11.24	11.14	0
		75	0	19.97	19.88	19.84	3	11.30	11.24	11.21	0
	256QAM	1	0	17.84	17.87	17.85	5	11.36	11.06	11.15	0
		1	36	17.90	18.02	17.99	5	11.20	11.13	11.18	0
		1	74	18.09	17.90	18.00	5	11.24	11.37	11.17	0
		36	0	17.87	17.81	17.69	5	11.29	11.14	11.13	0
		36	18	18.03	17.89	17.87	5	11.27	11.25	11.15	0
		36	37	17.94	17.91	17.74	5	11.21	11.21	11.16	0
		75	0	17.97	17.92	17.89	5	11.25	11.22	11.22	0

LTE Band 25											
Band width	Modulation	RB Size	RB offset	Max Average Conducted Power (dBm)			MPR [dB]	Back-off Average Conducted Power (dBm)			MPR [dB]
				26 090	26 365	26 640		26 090	26 365	26 640	
				1 855.0 MHz	1 882.5 MHz	1 910.0 MHz		1 855.0 MHz	1 882.5 MHz	1 910.0 MHz	
10 MHz	QPSK	1	0	23.10	23.05	22.89	0	11.51	11.28	11.37	0
		1	25	23.10	23.07	23.00	0	11.49	11.47	11.34	0
		1	49	23.06	22.95	23.02	0	11.38	11.34	11.31	0
		25	0	22.09	21.94	21.99	1	11.54	11.47	11.32	0
		25	12	22.12	22.09	21.94	1	11.57	11.51	11.37	0
		25	25	22.09	22.05	21.97	1	11.53	11.46	11.37	0
		50	0	22.15	22.04	21.88	1	11.54	11.46	11.32	0
	16QAM	1	0	22.51	22.21	22.08	1	11.73	11.68	11.55	0
		1	25	22.29	22.13	22.01	1	11.74	11.80	11.65	0
		1	49	22.46	22.28	22.09	1	11.41	11.59	11.73	0
		25	0	21.18	20.92	21.04	2	11.40	11.20	11.28	0
		25	12	21.19	21.08	21.01	2	11.41	11.38	11.26	0
		25	25	21.07	20.98	20.96	2	11.41	11.31	11.36	0
		50	0	21.18	21.04	20.97	2	11.39	11.33	11.19	0
	64QAM	1	0	21.14	21.14	21.15	2	11.36	11.30	11.42	0
		1	25	21.25	21.03	21.12	2	11.46	11.50	11.43	0
		1	49	21.21	21.11	21.17	2	11.53	11.34	11.38	0
		25	0	20.17	19.93	19.94	3	11.47	11.20	11.20	0
		25	12	20.13	20.01	19.90	3	11.49	11.39	11.16	0
		25	25	20.08	19.98	19.96	3	11.45	11.33	11.23	0
		50	0	20.09	20.09	19.86	3	11.44	11.30	11.20	0
	256QAM	1	0	18.21	18.02	18.06	5	11.49	11.33	11.22	0
		1	25	18.12	18.11	18.06	5	11.57	11.60	11.35	0
		1	49	18.06	18.07	17.97	5	11.50	11.40	11.29	0
		25	0	18.08	17.96	17.90	5	11.39	11.17	11.10	0
		25	12	18.11	18.04	17.86	5	11.41	11.35	11.19	0
		25	25	18.08	18.00	17.99	5	11.48	11.30	11.27	0
		50	0	18.07	17.99	17.82	5	11.38	11.34	11.13	0

LTE Band 25											
Band width	Modulation	RB Size	RB offset	Max Average Conducted Power (dBm)			MPR [dB]	Back-off Average Conducted Power (dBm)			MPR [dB]
				26 065	26 365	26 665		26 065	26 365	26 665	
				1 852.5 MHz	1 882.5 MHz	1 912.5 MHz		1 852.5 MHz	1 882.5 MHz	1 912.5 MHz	
5 MHz	QPSK	1	0	23.04	22.95	22.83	0	11.42	11.29	11.38	0
		1	12	23.09	23.05	22.97	0	11.53	11.43	11.37	0
		1	24	23.10	22.85	22.90	0	11.57	11.32	11.37	0
		12	0	22.16	21.96	21.86	1	11.59	11.33	11.27	0
		12	7	22.16	21.99	21.83	1	11.59	11.44	11.34	0
		12	13	22.08	21.97	21.93	1	11.53	11.43	11.41	0
		25	0	22.14	22.00	21.92	1	11.51	11.46	11.37	0
	16QAM	1	0	22.24	22.22	22.06	1	11.64	11.61	11.53	0
		1	12	22.29	22.24	22.12	1	11.72	11.67	11.83	0
		1	24	22.26	22.07	22.09	1	11.84	11.49	11.55	0
		12	0	21.12	21.00	20.89	2	11.49	11.29	11.18	0
		12	7	21.17	21.08	20.99	2	11.48	11.44	11.30	0
		12	13	21.22	21.03	20.92	2	11.52	11.34	11.28	0
		25	0	21.15	21.07	20.80	2	11.49	11.32	11.28	0
	64QAM	1	0	21.18	21.18	20.98	2	11.42	11.30	11.33	0
		1	12	21.29	21.27	21.06	2	11.68	11.54	11.33	0
		1	24	21.16	21.09	21.05	2	11.52	11.38	11.16	0
		12	0	20.12	20.03	19.95	3	11.41	11.29	11.11	0
		12	7	20.14	20.02	19.93	3	11.56	11.31	11.24	0
		12	13	20.20	20.03	19.99	3	11.41	11.28	11.19	0
		25	0	20.13	20.08	19.95	3	11.43	11.33	11.16	0
	256QAM	1	0	18.23	18.10	17.87	5	11.52	11.35	11.20	0
		1	12	18.34	18.16	18.03	5	11.64	11.45	11.42	0
		1	24	18.20	17.92	18.04	5	11.49	11.45	11.44	0
		12	0	18.10	18.05	17.88	5	11.49	11.29	11.16	0
		12	7	18.14	18.00	18.01	5	11.44	11.33	11.20	0
		12	13	18.08	17.97	18.05	5	11.35	11.30	11.21	0
		25	0	18.17	17.98	17.89	5	11.46	11.33	11.18	0

LTE Band 25											
Band width	Modulation	RB Size	RB offset	Max Average Conducted Power (dBm)			MPR [dB]	Back-off Average Conducted Power (dBm)			MPR [dB]
				26 055	26 365	26 675		26 055	26 365	26 675	
				1 851.5 MHz	1 882.5 MHz	1 913.5 MHz		1 851.5 MHz	1 882.5 MHz	1 913.5 MHz	
3 MHz	QPSK	1	0	22.98	22.96	22.91	0	11.42	11.42	11.33	0
		1	8	23.13	23.02	22.98	0	11.48	11.45	11.40	0
		1	14	23.03	22.84	22.77	0	11.52	11.35	11.27	0
		8	0	22.18	21.96	21.86	1	11.58	11.44	11.29	0
		8	4	22.11	22.05	21.99	1	11.61	11.40	11.38	0
		8	7	22.11	22.05	21.96	1	11.50	11.37	11.35	0
		15	0	22.07	21.94	21.88	1	11.57	11.40	11.29	0
	16QAM	1	0	22.26	22.19	22.14	1	11.63	11.73	11.34	0
		1	8	22.43	22.33	22.13	1	11.83	11.76	11.54	0
		1	14	22.09	22.19	21.88	1	11.75	11.55	11.36	0
		8	0	21.18	20.98	20.98	2	11.47	11.43	11.26	0
		8	4	21.13	20.99	21.02	2	11.56	11.39	11.38	0
		8	7	21.16	20.97	20.94	2	11.49	11.44	11.39	0
		15	0	21.11	21.00	20.85	2	11.48	11.27	11.22	0
	64QAM	1	0	20.98	21.13	21.05	2	11.36	11.47	11.19	0
		1	8	21.05	21.09	21.10	2	11.65	11.37	11.44	0
		1	14	21.19	21.07	20.98	2	11.53	11.45	11.34	0
		8	0	20.15	19.95	19.89	3	11.48	11.30	11.09	0
		8	4	20.17	19.98	20.00	3	11.46	11.38	11.24	0
		8	7	20.13	19.98	19.89	3	11.43	11.37	11.24	0
		15	0	20.11	20.02	19.85	3	11.46	11.29	11.10	0
	256QAM	1	0	18.20	18.09	17.73	5	11.49	11.26	11.18	0
		1	8	18.15	18.13	17.95	5	11.65	11.58	11.33	0
		1	14	18.14	17.94	18.01	5	11.51	11.27	11.15	0
		8	0	18.08	17.96	17.93	5	11.42	11.29	11.15	0
		8	4	18.17	18.06	18.04	5	11.44	11.38	11.29	0
		8	7	18.05	17.96	18.03	5	11.48	11.22	11.23	0
		15	0	18.13	17.95	17.92	5	11.38	11.24	11.09	0

LTE Band 25											
Band width	Modulation	RB Size	RB offset	Max Average Conducted Power (dBm)			MPR [dB]	Back-off Average Conducted Power (dBm)			MPR [dB]
				26 047	26 365	26 683		26 047	26 365	26 683	
				1 850.7 MHz	1 882.5 MHz	1 914.3 MHz		1 850.7 MHz	1 882.5 MHz	1 914.3 MHz	
1.4 MHz	QPSK	1	0	23.05	22.89	22.90	0	11.53	11.39	11.30	0
		1	3	23.02	22.98	22.94	0	11.50	11.44	11.32	0
		1	5	23.04	22.95	22.88	0	11.46	11.30	11.23	0
		3	0	23.18	22.94	22.92	0	11.55	11.35	11.36	0
		3	1	23.06	23.02	22.84	0	11.47	11.45	11.34	0
		3	3	23.06	23.00	22.87	0	11.48	11.40	11.35	0
		6	0	22.09	21.96	21.86	1	11.49	11.36	11.34	0
	16QAM	1	0	22.18	22.03	22.01	1	11.71	11.44	11.54	0
		1	3	22.12	22.24	22.39	1	11.84	11.62	11.58	0
		1	5	22.22	22.12	22.12	1	11.72	11.40	11.60	0
		3	0	22.17	21.99	21.94	1	11.47	11.35	11.44	0
		3	1	22.21	22.12	22.10	1	11.60	11.45	11.38	0
		3	3	22.20	22.09	21.98	1	11.58	11.41	11.33	0
		6	0	21.14	21.07	20.99	2	11.52	11.40	11.25	0
	64QAM	1	0	21.24	21.17	20.96	2	11.62	11.49	11.34	0
		1	3	21.33	21.06	21.11	2	11.59	11.34	11.32	0
		1	5	21.17	20.93	21.07	2	11.48	11.41	11.29	0
		3	0	21.20	21.01	20.95	2	11.67	11.35	11.30	0
		3	1	21.20	21.01	21.07	2	11.45	11.25	11.30	0
		3	3	21.15	21.02	20.99	2	11.46	11.35	11.24	0
		6	0	20.17	20.00	19.93	3	11.44	11.26	11.21	0
	256QAM	1	0	18.15	18.00	18.03	5	11.42	11.44	11.25	0
		1	3	18.27	18.17	17.90	5	11.59	11.42	11.19	0
		1	5	18.21	17.99	17.85	5	11.43	11.39	11.14	0
		3	0	18.12	18.04	17.96	5	11.47	11.26	11.29	0
		3	1	18.12	18.01	18.00	5	11.41	11.39	11.25	0
		3	3	18.22	18.10	18.03	5	11.47	11.38	11.37	0
		6	0	18.13	18.00	18.02	5	11.46	11.32	11.17	0

10.3.6 LTE Band 26

LTE Band 26							
Band width	Modulation	RB Size	RB offset	Max Average Conducted Power (dBm)	MPR [dB]	Back-off Average Conducted Power (dBm)	MPR [dB]
				26 865		26 865	
				831.5 MHz		831.5 MHz	
15 MHz	QPSK	1	0	22.70	0	15.70	0
		1	36	22.47	0	15.57	0
		1	74	22.64	0	15.67	0
		36	0	21.67	1	15.67	0
		36	18	21.62	1	15.64	0
		36	37	21.75	1	15.65	0
		75	0	21.74	1	15.65	0
	16QAM	1	0	21.82	1	15.76	0
		1	36	21.84	1	15.83	0
		1	74	21.87	1	15.68	0
		36	0	20.61	2	15.55	0
		36	18	20.62	2	15.49	0
		36	37	20.66	2	15.52	0
		75	0	20.73	2	15.56	0
	64QAM	1	0	20.95	2	15.61	0
		1	36	20.96	2	15.69	0
		1	74	20.59	2	15.60	0
		36	0	19.63	3	15.48	0
		36	18	19.63	3	15.46	0
		36	37	19.72	3	15.58	0
		75	0	19.74	3	15.61	0
	256QAM	1	0	17.67	5	15.51	0
		1	36	17.83	5	15.65	0
		1	74	17.70	5	15.90	0
		36	0	17.60	5	15.64	0
		36	18	17.69	5	15.59	0
		36	37	17.69	5	15.60	0
		75	0	17.69	5	15.65	0

15 MHz Bandwidths does not support at least three non-overlapping channels in certain channel bandwidths. 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 per KDB 941225 D05 SAR for LTE Devices.

LTE Band 26											
Band width	Modulation	RB Size	RB offset	Max Average Conducted Power (dBm)			MPR [dB]	Back-off Average Conducted Power (dBm)			MPR [dB]
				26 740	26 865	26 990		26 740	26 865	26 990	
				819.0 MHz	831.5 MHz	844.0 MHz		819.0 MHz	831.5 MHz	844.0 MHz	
10 MHz	QPSK	1	0	22.83	22.76	22.77	0	15.64	15.67	15.57	0
		1	25	22.80	22.76	22.78	0	15.69	15.74	15.70	0
		1	49	22.70	22.70	22.70	0	15.57	15.59	15.65	0
		25	0	21.77	21.73	21.67	1	15.63	15.68	15.60	0
		25	12	21.85	21.77	21.77	1	15.76	15.67	15.71	0
		25	25	21.83	21.77	21.74	1	15.73	15.71	15.73	0
		50	0	21.81	21.85	21.78	1	15.70	15.74	15.69	0
	16QAM	1	0	22.16	22.03	22.19	1	15.92	15.96	15.94	0
		1	25	22.00	22.14	22.06	1	16.04	15.96	15.95	0
		1	49	21.96	22.21	22.04	1	15.77	15.98	15.88	0
		25	0	20.72	20.69	20.71	2	15.61	15.70	15.69	0
		25	12	20.87	20.73	20.81	2	15.73	15.62	15.79	0
		25	25	20.78	20.71	20.78	2	15.75	15.73	15.70	0
		50	0	20.84	20.79	20.82	2	15.73	15.68	15.76	0
	64QAM	1	0	20.88	20.83	20.94	2	15.77	15.93	15.92	0
		1	25	21.00	20.90	20.88	2	15.79	15.88	15.91	0
		1	49	20.99	20.82	20.68	2	15.74	15.82	15.59	0
		25	0	19.66	19.74	19.74	3	15.66	15.66	15.70	0
		25	12	19.80	19.75	19.86	3	15.69	15.70	15.73	0
		25	25	19.79	19.75	19.86	3	15.66	15.70	15.66	0
		50	0	19.78	19.82	19.81	3	15.72	15.77	15.70	0
	256QAM	1	0	17.73	17.77	17.97	5	15.86	15.70	15.81	0
		1	25	17.93	17.85	17.99	5	15.93	15.80	15.94	0
		1	49	17.79	17.89	17.83	5	15.80	15.70	15.77	0
		25	0	17.73	17.78	17.77	5	15.73	15.69	15.59	0
		25	12	17.82	17.75	17.76	5	15.72	15.73	15.76	0
		25	25	17.81	17.80	17.83	5	15.73	15.77	15.70	0
		50	0	17.75	17.76	17.84	5	15.73	15.66	15.72	0

LTE Band 26											
Band width	Modulation	RB Size	RB offset	Max Average Conducted Power (dBm)			MPR [dB]	Back-off Average Conducted Power (dBm)			MPR [dB]
				26 715	26 865	27 015		26 715	26 865	27 015	
				816.5 MHz	831.5 MHz	846.5 MHz		816.5 MHz	831.5 MHz	846.5 MHz	
5 MHz	QPSK	1	0	22.77	22.72	22.76	0	15.63	15.64	15.61	0
		1	12	22.68	22.85	22.78	0	15.61	15.76	15.66	0
		1	24	22.65	22.68	22.61	0	15.60	15.62	15.53	0
		12	0	21.76	21.66	21.68	1	15.63	15.68	15.60	0
		12	7	21.78	21.82	21.74	1	15.75	15.77	15.62	0
		12	13	21.73	21.78	21.73	1	15.68	15.64	15.67	0
		25	0	21.75	21.76	21.79	1	15.74	15.71	15.67	0
	16QAM	1	0	22.16	22.22	21.97	1	15.90	16.09	15.71	0
		1	12	21.98	22.19	22.12	1	15.98	15.93	15.92	0
		1	24	21.91	22.06	21.93	1	15.88	16.07	15.99	0
		12	0	20.82	20.84	20.75	2	15.65	15.65	15.71	0
		12	7	20.83	20.81	20.85	2	15.73	15.78	15.71	0
		12	13	20.87	20.82	20.82	2	15.84	15.70	15.68	0
		25	0	20.74	20.80	20.74	2	15.71	15.68	15.64	0
	64QAM	1	0	21.05	21.06	21.00	2	15.77	15.76	15.73	0
		1	12	20.95	21.01	20.97	2	15.74	15.75	15.96	0
		1	24	21.05	21.01	20.91	2	15.87	15.83	15.73	0
		12	0	19.70	19.70	19.67	3	15.67	15.65	15.59	0
		12	7	19.81	19.85	19.79	3	15.78	15.72	15.71	0
		12	13	19.82	19.79	19.83	3	15.72	15.72	15.69	0
		25	0	19.78	19.81	19.76	3	15.72	15.69	15.69	0
	256QAM	1	0	17.72	17.72	17.87	5	15.79	15.79	15.79	0
		1	12	17.89	17.96	18.04	5	15.94	15.89	15.74	0
		1	24	17.77	17.80	17.88	5	15.85	15.81	15.65	0
		12	0	17.74	17.70	17.73	5	15.62	15.67	15.55	0
		12	7	17.82	17.85	17.88	5	15.71	15.81	15.71	0
		12	13	17.80	17.76	17.83	5	15.66	15.74	15.79	0
		25	0	17.75	17.80	17.76	5	15.68	15.69	15.73	0

LTE Band 26											
Band width	Modulation	RB Size	RB offset	Max Average Conducted Power (dBm)			MPR [dB]	Back-off Average Conducted Power (dBm)			MPR [dB]
				26 705	26 865	27 025		26 705	26 865	27 025	
				815.5 MHz	831.5 MHz	847.5 MHz		815.5 MHz	831.5 MHz	847.5 MHz	
3 MHz	QPSK	1	0	22.73	22.68	22.59	0	15.53	15.70	15.55	0
		1	8	22.76	22.79	22.86	0	15.77	15.67	15.69	0
		1	14	22.68	22.69	22.62	0	15.58	15.62	15.58	0
		8	0	21.79	21.72	21.68	1	15.75	15.62	15.54	0
		8	4	21.76	21.81	21.83	1	15.71	15.69	15.73	0
		8	7	21.81	21.77	21.72	1	15.66	15.63	15.63	0
		15	0	21.75	21.83	21.78	1	15.68	15.68	15.59	0
	16QAM	1	0	21.99	21.91	22.00	1	16.00	15.95	16.03	0
		1	8	22.14	22.17	22.07	1	15.91	16.06	16.11	0
		1	14	22.06	22.02	22.00	1	15.94	15.84	15.93	0
		8	0	20.90	20.76	20.72	2	15.82	15.79	15.54	0
		8	4	20.84	20.81	20.78	2	15.78	15.79	15.76	0
		8	7	20.78	20.87	20.90	2	15.73	15.71	15.75	0
		15	0	20.75	20.80	20.81	2	15.78	15.70	15.67	0
	64QAM	1	0	20.74	20.82	20.76	2	15.86	15.85	15.70	0
		1	8	21.15	20.91	20.76	2	15.89	15.84	15.84	0
		1	14	20.87	21.02	20.83	2	15.77	15.69	15.69	0
		8	0	19.80	19.68	19.69	3	15.77	15.67	15.64	0
		8	4	19.77	19.81	19.87	3	15.74	15.71	15.73	0
		8	7	19.80	19.91	19.81	3	15.71	15.71	15.72	0
		15	0	19.80	19.81	19.78	3	15.70	15.73	15.67	0
	256QAM	1	0	17.80	17.79	17.74	5	15.67	15.56	15.63	0
		1	8	17.84	17.91	17.90	5	15.77	15.92	15.90	0
		1	14	17.77	17.79	17.80	5	15.65	15.71	15.78	0
		8	0	17.80	17.64	17.66	5	15.69	15.69	15.71	0
		8	4	17.76	17.81	17.91	5	15.79	15.70	15.71	0
		8	7	17.79	17.73	17.79	5	15.75	15.68	15.69	0
		15	0	17.74	17.81	17.74	5	15.76	15.73	15.68	0

LTE Band 26											
Band width	Modulation	RB Size	RB offset	Max Average Conducted Power (dBm)			MPR [dB]	Back-off Average Conducted Power (dBm)			MPR [dB]
				26 697	26 865	27 033		26 697	26 865	27 033	
				814.7 MHz	831.5 MHz	848.3 MHz		814.7 MHz	831.5 MHz	848.3 MHz	
1.4 MHz	QPSK	1	0	22.60	22.69	22.62	0	15.57	15.56	15.53	0
		1	3	22.74	22.69	22.80	0	15.66	15.61	15.58	0
		1	5	22.77	22.69	22.70	0	15.62	15.59	15.68	0
		3	0	22.79	22.69	22.67	0	15.67	15.52	15.65	0
		3	1	22.78	22.75	22.67	0	15.57	15.61	15.54	0
		3	3	22.72	22.69	22.70	0	15.70	15.62	15.61	0
		6	0	21.18	21.25	21.27	1	15.62	15.66	15.59	0
	16QAM	1	0	22.12	21.99	22.19	1	15.95	15.79	15.83	0
		1	3	21.99	21.97	21.96	1	16.06	15.99	15.82	0
		1	5	22.02	21.95	22.02	1	15.80	15.79	15.95	0
		3	0	21.84	21.83	21.92	1	15.68	15.63	15.78	0
		3	1	21.87	21.89	21.85	1	15.71	15.81	15.77	0
		3	3	21.78	21.94	21.85	1	15.71	15.86	15.76	0
		6	0	20.82	20.88	20.75	2	15.66	15.69	15.69	0
	64QAM	1	0	20.82	20.86	20.95	2	15.89	15.61	15.79	0
		1	3	20.73	21.00	21.08	2	15.77	15.72	15.80	0
		1	5	20.89	20.93	20.91	2	15.71	15.78	15.78	0
		3	0	20.75	20.74	20.74	2	15.69	15.67	15.73	0
		3	1	20.78	20.86	20.93	2	15.73	15.73	15.73	0
		3	3	20.83	20.90	20.79	2	15.75	15.73	15.64	0
		6	0	19.68	19.85	19.72	3	15.74	15.68	15.72	0
	256QAM	1	0	17.92	17.78	17.77	5	15.64	15.82	15.68	0
		1	3	17.93	17.88	17.96	5	15.82	15.81	15.70	0
		1	5	17.77	17.79	17.73	5	15.77	15.69	15.81	0
		3	0	17.83	17.77	17.73	5	15.75	15.76	15.78	0
		3	1	17.84	17.76	17.81	5	15.75	15.72	15.66	0
		3	3	17.68	17.76	17.79	5	15.66	15.78	15.65	0
		6	0	17.75	17.80	17.78	5	15.73	15.62	15.65	0

10.3.7 LTE Band 41

LTE Band 41															
Band width	Modulation	RB Size	RB offset	Max Average Conducted Power (dBm)					MPR [dB]	Back-off Average Conducted Power (dBm)					MPR [dB]
				39 750	40 185	40 620	41 055	41 490		39 750	40 185	40 620	41 055	41 490	
				2506.0 MHz	2549.5 MHz	2593.0 MHz	2636.5 MHz	2680.0 MHz		2506.0 MHz	2549.5 MHz	2593.0 MHz	2636.5 MHz	2680.0 MHz	
20 MHz	QPSK	1	0	23.26	23.35	23.60	23.41	23.31	0	13.42	13.55	13.87	13.63	13.51	0
		1	49	23.41	23.38	23.62	23.42	23.32	0	13.49	13.56	13.90	13.65	13.52	0
		1	99	23.40	23.37	23.61	23.32	23.31	0	13.44	13.52	13.85	13.50	13.50	0
		50	0	22.32	22.41	22.68	22.44	22.32	1	13.64	13.70	14.01	13.72	13.62	0
		50	24	22.29	22.40	22.66	22.43	22.31	1	13.62	13.69	13.91	13.71	13.61	0
		50	50	22.26	22.32	22.66	22.33	22.24	1	13.61	13.63	13.93	13.66	13.51	0
		100	0	22.25	22.49	22.59	22.33	22.27	1	13.58	13.67	13.88	13.70	13.64	0
	16QAM	1	0	22.24	22.39	22.67	22.39	22.26	1	13.60	13.54	14.01	13.65	13.55	0
		1	49	22.42	22.49	22.94	22.24	22.23	1	13.76	13.78	14.19	14.27	13.73	0
		1	99	22.40	22.39	22.81	22.33	22.30	1	13.57	13.64	13.94	13.64	13.57	0
		50	0	21.37	21.38	21.70	21.35	21.24	2	13.63	13.71	13.97	13.70	13.63	0
		50	24	21.33	21.36	21.66	21.33	21.32	2	13.63	13.71	13.94	13.68	13.62	0
		50	50	21.34	21.34	21.56	21.30	21.21	2	13.58	13.66	13.97	13.64	13.57	0
		100	0	21.29	21.38	21.51	21.44	21.35	2	13.61	13.70	13.93	13.70	13.63	0
	64QAM	1	0	21.30	21.46	21.71	21.54	21.40	2	13.48	13.69	13.94	13.82	13.76	0
		1	49	21.53	21.40	21.75	21.54	21.38	2	13.66	13.70	14.07	13.57	13.65	0
		1	99	21.39	21.43	21.77	21.38	21.35	2	13.59	13.67	13.95	13.60	13.62	0
		50	0	20.39	20.40	20.74	20.42	20.35	3	13.60	13.63	13.99	13.67	13.66	0
		50	24	20.33	20.46	20.68	20.49	20.39	3	13.59	13.68	13.91	13.71	13.61	0
		50	50	20.38	20.38	20.68	20.38	20.28	3	13.59	13.62	13.91	13.61	13.53	0
		100	0	20.37	20.47	20.66	20.45	20.34	3	13.53	13.68	13.89	13.72	13.66	0
	256QAM	1	0	18.31	18.23	18.55	18.59	18.35	5	13.61	13.54	13.92	13.67	13.42	0
		1	49	18.17	18.34	18.50	18.44	18.21	5	13.59	13.60	13.84	13.52	13.57	0
		1	99	18.25	18.29	18.68	18.31	18.16	5	13.49	13.57	13.88	13.54	13.42	0
		50	0	18.40	18.44	18.76	18.47	18.34	5	13.60	13.67	13.95	13.70	13.59	0
		50	24	18.36	18.45	18.69	18.52	18.38	5	13.59	13.71	13.94	13.69	13.60	0
		50	50	18.34	18.40	18.72	18.39	18.31	5	13.61	13.63	13.92	13.63	13.55	0
		100	0	18.32	18.46	18.67	18.49	18.35	5	13.57	13.67	13.94	13.69	13.57	0

LTE Band 41															
Band width	Modulation	RB Size	RB offset	Max Average Conducted Power (dBm)					MPR [dB]	Back-off Average Conducted Power (dBm)					MPR [dB]
				39 750	40 185	40 620	41 055	41 490		39 750	40 185	40 620	41 055	41 490	
				2506.0 MHz	2549.5 MHz	2593.0 MHz	2636.5 MHz	2680.0 MHz		2506.0 MHz	2549.5 MHz	2593.0 MHz	2636.5 MHz	2680.0 MHz	
15 MHz	QPSK	1	0	23.24	23.32	23.51	23.44	23.29	0	13.44	13.48	13.83	13.58	13.46	0
		1	36	23.35	23.38	23.64	23.32	23.28	0	13.48	13.50	13.80	13.51	13.45	0
		1	74	23.25	23.37	23.68	23.30	23.30	0	13.47	13.57	13.85	13.58	13.53	0
		36	0	22.37	22.30	22.72	22.37	22.39	1	13.61	13.65	13.93	13.69	13.60	0
		36	18	22.37	22.40	22.58	22.37	22.37	1	13.63	13.66	13.92	13.74	13.61	0
		36	37	22.30	22.34	22.59	22.34	22.27	1	13.57	13.62	13.90	13.65	13.52	0
		75	0	22.28	22.36	22.59	22.37	22.39	1	13.59	13.69	13.90	13.70	13.61	0
	16QAM	1	0	22.31	22.36	22.56	22.40	22.21	1	13.51	13.50	13.95	13.69	13.58	0
		1	36	22.25	22.27	22.72	22.51	22.20	1	13.75	13.64	14.02	13.58	13.58	0
		1	74	22.35	22.37	22.48	22.42	22.26	1	13.57	13.71	13.93	13.59	13.48	0
		36	0	21.35	21.39	21.66	21.38	21.37	2	13.67	13.67	14.01	13.70	13.57	0
		36	18	21.41	21.42	21.56	21.41	21.40	2	13.67	13.68	13.90	13.69	13.62	0
		36	37	21.31	21.31	21.59	21.33	21.27	2	13.57	13.63	13.92	13.61	13.56	0
		75	0	21.27	21.37	21.56	21.40	21.38	2	13.62	13.70	13.95	13.70	13.59	0
	64QAM	1	0	21.44	21.44	21.87	21.47	21.22	2	13.50	13.63	14.08	13.72	13.60	0
		1	36	21.62	21.46	21.79	21.45	21.49	2	13.65	13.68	13.92	13.79	13.55	0
		1	74	21.39	21.41	21.70	21.46	21.47	2	13.57	13.68	14.00	13.64	13.69	0
		36	0	20.31	20.45	20.75	20.50	20.34	3	13.61	13.62	13.92	13.73	13.60	0
		36	18	20.40	20.41	20.65	20.45	20.34	3	13.62	13.66	13.88	13.72	13.60	0
		36	37	20.29	20.39	20.69	20.41	20.27	3	13.58	13.62	13.93	13.63	13.52	0
		75	0	20.33	20.43	20.72	20.44	20.38	3	13.53	13.65	13.92	13.70	13.62	0
	256QAM	1	0	18.19	18.23	18.80	18.42	18.36	5	13.47	13.47	13.87	13.68	13.36	0
		1	36	18.34	18.28	18.59	18.44	18.35	5	13.56	13.56	13.78	13.65	13.54	0
		1	74	18.27	18.38	18.61	18.50	18.28	5	13.75	13.48	13.92	13.57	13.51	0
		36	0	18.38	18.42	18.77	18.46	18.39	5	13.60	13.67	13.96	13.68	13.58	0
		36	18	18.38	18.47	18.65	18.48	18.39	5	13.66	13.70	13.92	13.70	13.61	0
		36	37	18.35	18.34	18.74	18.48	18.35	5	13.58	13.64	13.88	13.65	13.52	0
		75	0	18.35	18.44	18.68	18.46	18.44	5	13.60	13.61	13.90	13.69	13.59	0

LTE Band 41															
Band width	Modulation	RB Size	RB offset	Max Average Conducted Power (dBm)					MPR [dB]	Back-off Average Conducted Power (dBm)					MPR [dB]
				39 750	40 185	40 620	41 055	41 490		39 750	40 185	40 620	41 055	41 490	
				2506.0 MHz	2549.5 MHz	2593.0 MHz	2636.5 MHz	2680.0 MHz		2506.0 MHz	2549.5 MHz	2593.0 MHz	2636.5 MHz	2680.0 MHz	
10 MHz	QPSK	1	0	23.43	23.42	23.67	23.42	23.29	0	13.72	13.64	13.96	13.68	13.59	0
		1	25	23.48	23.51	23.78	23.49	23.31	0	13.72	13.70	14.04	13.77	13.67	0
		1	49	23.49	23.45	23.70	23.43	23.35	0	13.72	13.72	13.97	13.76	13.65	0
		25	0	22.45	22.44	22.72	22.50	22.46	1	13.79	13.76	14.04	13.78	13.71	0
		25	12	22.59	22.38	22.65	22.61	22.34	1	13.81	13.74	14.06	13.85	13.76	0
		25	25	22.44	22.40	22.67	22.36	22.24	1	13.73	13.69	14.03	13.73	13.60	0
		50	0	22.45	22.39	22.76	22.49	22.36	1	13.73	13.69	14.06	13.82	13.76	0
	16QAM	1	0	22.58	22.37	22.70	22.64	22.42	1	13.76	13.76	14.01	13.83	13.73	0
		1	25	22.54	22.50	22.84	22.64	22.27	1	13.83	13.82	14.12	13.84	13.72	0
		1	49	22.52	22.36	22.72	22.72	22.33	1	13.65	13.79	14.09	13.87	13.77	0
		25	0	21.40	21.44	21.79	21.49	21.34	2	13.77	13.78	14.10	13.83	13.71	0
		25	12	21.47	21.49	21.74	21.64	21.47	2	13.80	13.74	14.05	13.85	13.75	0
		25	25	21.45	21.52	21.71	21.40	21.34	2	13.72	13.74	14.06	13.74	13.63	0
		50	0	21.45	21.40	21.72	21.49	21.36	2	13.68	13.66	14.05	13.87	13.68	0
	64QAM	1	0	21.60	21.48	21.96	21.59	21.52	2	13.67	13.67	14.17	13.71	13.84	0
		1	25	21.65	21.76	21.96	21.59	21.51	2	13.92	13.87	13.95	13.86	13.78	0
		1	49	21.51	21.75	21.93	21.63	21.49	2	13.77	13.82	14.14	13.80	13.75	0
		25	0	20.53	20.60	20.88	20.58	20.46	3	13.77	13.76	14.10	13.80	13.70	0
		25	12	20.66	20.53	20.87	20.70	20.55	3	13.79	13.74	14.06	13.83	13.76	0
		25	25	20.49	20.52	20.83	20.52	20.43	3	13.69	13.73	14.02	13.73	13.61	0
		50	0	20.51	20.53	20.83	20.59	20.55	3	13.68	13.68	14.03	13.77	13.70	0
	256QAM	1	0	18.38	18.40	18.73	18.52	18.20	5	13.64	13.63	14.06	13.68	13.60	0
		1	25	18.53	18.50	18.72	18.58	18.46	5	13.72	13.79	13.96	13.81	13.60	0
		1	49	18.47	18.49	18.69	18.35	18.33	5	13.68	13.56	14.11	13.60	13.52	0
		25	0	18.59	18.59	18.89	18.61	18.50	5	13.74	13.78	14.10	13.81	13.67	0
		25	12	18.53	18.54	18.81	18.61	18.53	5	13.79	13.74	14.08	13.84	13.79	0
		25	25	18.49	18.50	18.84	18.52	18.45	5	13.66	13.72	14.07	13.76	13.59	0
		50	0	18.46	18.54	18.81	18.57	18.52	5	13.69	13.72	14.07	13.82	13.70	0

LTE Band 41															
Band width	Modulation	RB Size	RB offset	Max Average Conducted Power (dBm)					MPR [dB]	Back-off Average Conducted Power (dBm)					MPR [dB]
				39 750	40 185	40 620	41 055	41 490		39 750	40 185	40 620	41 055	41 490	
				2506.0 MHz	2549.5 MHz	2593.0 MHz	2636.5 MHz	2680.0 MHz		2506.0 MHz	2549.5 MHz	2593.0 MHz	2636.5 MHz	2680.0 MHz	
5 MHz	QPSK	1	0	23.48	23.44	23.70	23.41	23.38	0	13.75	13.64	13.93	13.67	13.61	0
		1	12	23.61	23.54	23.75	23.58	23.35	0	13.86	13.68	14.00	13.74	13.70	0
		1	24	23.57	23.51	23.69	23.41	23.34	0	13.70	13.65	13.94	13.71	13.58	0
		12	0	22.48	22.49	22.72	22.53	22.39	1	13.78	13.71	14.08	13.78	13.72	0
		12	7	22.53	22.46	22.75	22.50	22.40	1	13.83	13.70	14.04	13.83	13.71	0
		12	13	22.44	22.40	22.67	22.42	22.39	1	13.70	13.68	14.00	13.69	13.66	0
		25	0	22.53	22.35	22.68	22.49	22.41	1	13.80	13.68	14.00	13.80	13.71	0
	16QAM	1	0	22.50	22.48	22.75	22.44	22.20	1	13.69	13.74	14.19	14.00	13.52	0
		1	12	22.40	22.55	22.76	22.52	22.28	1	13.86	13.74	14.20	13.85	13.77	0
		1	24	22.37	22.50	22.70	22.36	22.29	1	13.61	13.75	13.98	13.79	13.68	0
		12	0	21.51	21.49	21.77	21.54	21.37	2	13.82	13.75	14.09	13.77	13.79	0
		12	7	21.53	21.41	21.70	21.51	21.48	2	13.83	13.71	14.07	13.82	13.67	0
		12	13	21.40	21.38	21.77	21.43	21.39	2	13.75	13.73	14.03	13.74	13.67	0
		25	0	21.43	21.43	21.68	21.52	21.40	2	13.75	13.67	14.05	13.85	13.70	0
	64QAM	1	0	21.49	21.67	21.95	21.65	21.50	2	13.56	13.65	14.00	13.71	13.58	0
		1	12	21.59	21.65	22.02	21.62	21.53	2	13.65	13.72	14.18	13.93	13.68	0
		1	24	21.53	21.78	21.83	21.60	21.54	2	13.53	13.76	14.08	13.77	13.68	0
		12	0	20.62	20.62	20.95	20.61	20.52	3	13.76	13.76	14.06	13.76	13.69	0
		12	7	20.69	20.61	20.86	20.67	20.55	3	13.81	13.68	14.01	13.78	13.73	0
		12	13	20.62	20.60	20.81	20.57	20.52	3	13.71	13.76	14.07	13.69	13.68	0
		25	0	20.64	20.55	20.84	20.63	20.51	3	13.79	13.70	14.02	13.81	13.70	0
	256QAM	1	0	18.58	18.47	18.78	18.52	18.43	5	13.58	13.67	14.00	13.75	13.58	0
		1	12	18.54	18.58	18.69	18.46	18.55	5	13.76	13.63	14.05	13.73	13.63	0
		1	24	18.44	18.49	18.81	18.50	18.44	5	13.55	13.58	13.93	13.55	13.47	0
		12	0	18.62	18.62	18.87	18.65	18.54	5	13.74	13.80	14.13	13.79	13.72	0
		12	7	18.64	18.57	18.84	18.69	18.60	5	13.75	13.76	14.04	13.82	13.68	0
		12	13	18.54	18.56	18.83	18.57	18.57	5	13.71	13.69	14.06	13.72	13.72	0
		25	0	18.61	18.53	18.86	18.63	18.52	5	13.73	13.70	14.05	13.80	13.74	0

10.3.8 LTE Band 66(Main1)

LTE Band 66 (Main1)											
Band width	Modulation	RB Size	RB offset	Max Average Conducted Power (dBm)			MPR [dB]	Back-off Average Conducted Power (dBm)			MPR [dB]
				132 072	132 322	132 572		132 072	132 322	132 572	
				1 720.0 MHz	1 745.0 MHz	1 770.0 MHz		1 720.0 MHz	1 745.0 MHz	1 770.0 MHz	
20 MHz	QPSK	1	0	24.07	24.06	23.85	0	12.38	12.36	12.34	0
		1	49	24.00	24.01	23.84	0	12.39	12.35	12.37	0
		1	99	24.05	23.95	23.72	0	12.91	12.62	12.72	0
		50	0	23.10	22.99	22.90	1	12.42	12.35	12.38	0
		50	24	23.07	22.94	22.87	1	12.43	12.41	12.37	0
		50	50	23.03	22.98	22.86	1	12.55	12.53	12.42	0
		100	0	23.06	22.96	22.83	1	12.50	12.41	12.33	0
	16QAM	1	0	23.29	23.25	22.96	1	12.62	12.58	12.56	0
		1	49	23.17	22.96	23.36	1	12.57	12.68	12.69	0
		1	99	23.07	23.11	23.15	1	12.81	12.73	12.74	0
		50	0	22.01	21.90	21.86	2	12.37	12.41	12.36	0
		50	24	22.08	21.94	21.83	2	12.47	12.43	12.40	0
		50	50	22.04	21.95	21.92	2	12.51	12.48	12.50	0
		100	0	22.05	21.90	21.91	2	12.47	12.40	12.36	0
	64QAM	1	0	22.25	22.06	22.05	2	12.77	12.62	12.51	0
		1	49	22.24	22.23	22.03	2	12.62	12.55	12.67	0
		1	99	22.30	22.35	22.06	2	12.77	12.74	12.50	0
		50	0	21.03	20.94	20.85	3	12.43	12.37	12.27	0
		50	24	21.15	20.94	20.87	3	12.53	12.36	12.32	0
		50	50	21.09	21.03	20.99	3	12.60	12.56	12.44	0
		100	0	21.02	20.94	20.93	3	12.54	12.42	12.39	0
	256QAM	1	0	19.36	19.06	19.20	5	12.52	12.51	12.47	0
		1	49	19.03	19.12	18.93	5	12.54	12.63	12.57	0
		1	99	19.21	19.19	19.18	5	12.71	12.73	12.58	0
		50	0	18.96	18.96	18.91	5	12.47	12.44	12.31	0
		50	24	19.09	18.96	18.87	5	12.58	12.42	12.41	0
		50	50	19.08	19.05	18.95	5	12.63	12.53	12.54	0
		100	0	19.12	18.94	18.89	5	12.58	12.42	12.40	0

LTE Band 66 (Main1)											
Band width	Modulation	RB Size	RB offset	Max Average Conducted Power (dBm)			MPR [dB]	Back-off Average Conducted Power (dBm)			MPR [dB]
				132 047	132 322	132 597		132 047	132 322	132 597	
				1 717.5 MHz	1 745.0 MHz	1 772.5 MHz		1 717.5 MHz	1 745.0 MHz	1 772.5 MHz	
15 MHz	QPSK	1	0	24.07	24.01	23.83	0	12.22	12.36	12.35	0
		1	36	24.05	23.96	23.88	0	12.36	12.35	12.39	0
		1	74	24.00	23.97	23.78	0	12.60	12.48	12.59	0
		36	0	23.02	22.93	22.89	1	12.31	12.41	12.41	0
		36	18	23.12	22.95	22.85	1	12.44	12.37	12.52	0
		36	37	23.12	23.01	22.92	1	12.52	12.47	12.54	0
		75	0	23.07	22.90	22.85	1	12.45	12.39	12.49	0
	16QAM	1	0	23.18	23.06	22.95	1	12.84	12.56	12.60	0
		1	36	23.14	23.03	23.05	1	12.69	12.54	12.99	0
		1	74	23.01	23.07	22.74	1	12.95	12.63	12.69	0
		36	0	22.06	21.90	21.90	2	12.30	12.34	12.39	0
		36	18	22.06	21.92	21.83	2	12.44	12.28	12.48	0
		36	37	22.01	21.98	21.91	2	12.51	12.49	12.44	0
		75	0	22.09	21.90	21.85	2	12.46	12.31	12.47	0
	64QAM	1	0	22.03	22.01	22.15	2	12.52	12.58	12.38	0
		1	36	22.08	21.95	22.27	2	12.52	12.72	12.53	0
		1	74	22.42	22.48	21.89	2	12.84	12.66	12.62	0
		36	0	21.01	21.00	20.81	3	12.41	12.45	12.37	0
		36	18	21.15	20.85	20.80	3	12.53	12.41	12.45	0
		36	37	21.00	21.05	21.05	3	12.62	12.51	12.50	0
		75	0	21.02	20.96	20.95	3	12.55	12.45	12.39	0
	256QAM	1	0	18.83	18.97	18.82	5	12.43	12.54	12.30	0
		1	36	19.11	19.19	19.14	5	12.77	12.40	12.57	0
		1	74	19.29	19.27	18.98	5	12.71	12.65	12.60	0
		36	0	18.95	18.88	18.86	5	12.47	12.43	12.37	0
		36	18	19.08	18.95	18.87	5	12.57	12.39	12.45	0
		36	37	19.08	19.08	18.90	5	12.56	12.55	12.49	0
		75	0	19.01	18.87	18.87	5	12.59	12.42	12.39	0

LTE Band 66 (Main1)											
Band width	Modulation	RB Size	RB offset	Max Average Conducted Power (dBm)			MPR [dB]	Back-off Average Conducted Power (dBm)			MPR [dB]
				132 022	132 322	132 622		132 022	132 322	132 622	
				1 715.0 MHz	1 745.0 MHz	1 775.0 MHz		1 715.0 MHz	1 745.0 MHz	1 775.0 MHz	
10 MHz	QPSK	1	0	24.14	24.16	24.00	0	12.46	12.45	12.51	0
		1	25	24.23	24.17	24.09	0	12.51	12.61	12.57	0
		1	49	24.13	24.06	24.03	0	12.54	12.54	12.65	0
		25	0	23.13	23.05	22.94	1	12.59	12.49	12.56	0
		25	12	23.28	23.09	23.10	1	12.61	12.55	12.49	0
		25	25	23.21	23.10	23.03	1	12.60	12.59	12.57	0
		50	0	23.24	23.03	23.06	1	12.60	12.42	12.55	0
	16QAM	1	0	23.35	22.97	23.30	1	12.62	12.68	12.88	0
		1	25	23.43	23.18	23.20	1	12.84	12.85	12.87	0
		1	49	23.21	23.30	23.08	1	12.77	12.97	12.93	0
		25	0	22.14	22.12	21.99	2	12.59	12.57	12.54	0
		25	12	22.23	22.13	22.08	2	12.66	12.57	12.48	0
		25	25	22.21	22.14	22.06	2	12.60	12.61	12.68	0
		50	0	22.26	22.08	22.04	2	12.57	12.53	12.46	0
	64QAM	1	0	22.40	22.41	22.31	2	12.88	12.71	12.75	0
		1	25	22.29	22.23	22.25	2	12.79	12.90	12.88	0
		1	49	22.52	22.24	22.22	2	12.77	12.89	12.74	0
		25	0	21.16	21.08	21.01	3	12.63	12.60	12.50	0
		25	12	21.23	21.11	21.16	3	12.76	12.66	12.69	0
		25	25	21.15	21.07	21.13	3	12.72	12.63	12.66	0
		50	0	21.23	21.01	21.10	3	12.68	12.51	12.65	0
	256QAM	1	0	19.14	19.25	19.12	5	12.53	12.50	12.62	0
		1	25	19.46	19.36	19.01	5	12.79	12.80	12.77	0
		1	49	19.26	19.19	19.24	5	12.76	12.58	12.53	0
		25	0	19.08	19.03	19.05	5	12.64	12.58	12.54	0
		25	12	19.22	19.15	19.14	5	12.66	12.64	12.60	0
		25	25	19.21	19.22	19.14	5	12.67	12.68	12.69	0
		50	0	19.18	19.12	19.03	5	12.69	12.57	12.58	0

LTE Band 66 (Main1)											
Band width	Modulation	RB Size	RB offset	Max Average Conducted Power (dBm)			MPR [dB]	Back-off Average Conducted Power (dBm)			MPR [dB]
				131 997	132 322	132 647		131 997	132 322	132 647	
				1 712.5 MHz	1 745.0 MHz	1 777.5 MHz		1 712.5 MHz	1 745.0 MHz	1 777.5 MHz	
5 MHz	QPSK	1	0	24.17	24.07	24.04	0	12.46	12.52	12.43	0
		1	12	24.21	24.14	24.06	0	12.53	12.55	12.66	0
		1	24	24.15	24.10	23.97	0	12.48	12.51	12.55	0
		12	0	23.20	23.05	23.07	1	12.59	12.46	12.53	0
		12	7	23.20	23.18	23.06	1	12.58	12.58	12.66	0
		12	13	23.23	23.14	23.03	1	12.51	12.55	12.59	0
		25	0	23.20	23.04	23.05	1	12.59	12.57	12.57	0
	16QAM	1	0	23.13	23.24	23.17	1	12.89	12.87	12.80	0
		1	12	23.28	23.24	23.06	1	12.97	12.80	12.94	0
		1	24	23.40	23.21	23.17	1	12.75	12.77	12.90	0
		12	0	22.18	22.06	22.01	2	12.61	12.52	12.55	0
		12	7	22.24	22.13	22.05	2	12.58	12.60	12.62	0
		12	13	22.18	22.13	22.02	2	12.53	12.59	12.63	0
		25	0	22.19	22.06	22.04	2	12.52	12.61	12.60	0
	64QAM	1	0	22.37	22.30	22.05	2	12.60	12.69	12.69	0
		1	12	22.44	22.19	22.19	2	12.90	12.76	12.70	0
		1	24	22.30	22.17	22.27	2	12.88	12.62	12.71	0
		12	0	21.15	21.05	21.06	3	12.67	12.62	12.55	0
		12	7	21.13	21.24	21.19	3	12.66	12.67	12.68	0
		12	13	21.20	21.13	21.06	3	12.62	12.58	12.58	0
		25	0	21.15	21.01	21.03	3	12.68	12.66	12.65	0
	256QAM	1	0	19.11	19.12	19.32	5	12.62	12.62	12.52	0
		1	12	19.10	19.10	19.14	5	12.89	12.66	12.64	0
		1	24	19.35	18.92	19.21	5	12.76	12.75	12.58	0
		12	0	19.16	19.06	19.11	5	12.69	12.46	12.60	0
		12	7	19.21	19.06	19.12	5	12.69	12.65	12.59	0
		12	13	19.22	19.10	19.10	5	12.61	12.63	12.64	0
		25	0	19.19	19.03	19.06	5	12.67	12.56	12.51	0

LTE Band 66 (Main1)											
Band width	Modulation	RB Size	RB offset	Max Average Conducted Power (dBm)			MPR [dB]	Back-off Average Conducted Power (dBm)			MPR [dB]
				131 987	132 322	132 657		131 987	132 322	132 657	
				1 711.5 MHz	1 745.0 MHz	1 778.5 MHz		1 711.5 MHz	1 745.0 MHz	1 778.5 MHz	
3 MHz	QPSK	1	0	24.14	24.08	23.97	0	12.50	12.38	12.47	0
		1	8	24.21	24.15	24.11	0	12.56	12.49	12.53	0
		1	14	24.13	24.10	24.01	0	12.45	12.47	12.49	0
		8	0	23.21	23.04	22.94	1	12.53	12.45	12.52	0
		8	4	23.23	23.16	23.06	1	12.55	12.54	12.53	0
		8	7	23.17	23.13	23.04	1	12.56	12.53	12.61	0
		15	0	23.20	23.05	22.94	1	12.54	12.64	12.51	0
	16QAM	1	0	23.32	23.19	23.15	1	12.77	12.71	12.87	0
		1	8	23.38	23.37	23.32	1	12.83	12.96	12.75	0
		1	14	23.22	22.89	23.20	1	12.74	12.69	12.79	0
		8	0	22.23	22.06	21.99	2	12.56	12.50	12.56	0
		8	4	22.26	22.18	22.05	2	12.63	12.61	12.59	0
		8	7	22.20	22.08	22.04	2	12.64	12.60	12.65	0
		15	0	22.17	22.03	22.03	2	12.56	12.55	12.51	0
	64QAM	1	0	22.29	22.21	22.27	2	12.53	12.81	12.58	0
		1	8	22.39	22.25	22.26	2	12.74	12.74	12.65	0
		1	14	22.21	22.04	22.18	2	12.82	12.63	12.71	0
		8	0	21.23	21.11	20.99	3	12.69	12.60	12.55	0
		8	4	21.24	21.16	21.13	3	12.74	12.67	12.68	0
		8	7	21.15	21.15	21.12	3	12.65	12.63	12.65	0
		15	0	21.14	21.09	20.92	3	12.63	12.59	12.57	0
	256QAM	1	0	19.25	19.11	19.04	5	12.56	12.50	12.55	0
		1	8	19.34	19.36	19.11	5	12.87	12.86	12.59	0
		1	14	19.17	19.08	19.12	5	12.80	12.54	12.46	0
		8	0	19.10	19.11	19.02	5	12.58	12.53	12.60	0
		8	4	19.27	19.22	19.12	5	12.66	12.65	12.61	0
		8	7	19.11	19.22	19.12	5	12.68	12.63	12.58	0
		15	0	19.13	19.10	19.00	5	12.59	12.52	12.50	0

LTE Band 66 (Main1)											
Band width	Modulation	RB Size	RB offset	Max Average Conducted Power (dBm)			MPR [dB]	Back-off Average Conducted Power (dBm)			MPR [dB]
				131 979	132 322	132 665		131 979	132 322	132 665	
				1 710.7 MHz	1 745.0 MHz	1 779.3 MHz		1 710.7 MHz	1 745.0 MHz	1 779.3 MHz	
1.4 MHz	QPSK	1	0	24.14	24.07	24.08	0	12.49	12.53	12.47	0
		1	3	24.24	24.09	24.00	0	12.51	12.51	12.50	0
		1	5	24.17	24.04	23.98	0	12.47	12.47	12.51	0
		3	0	24.16	24.11	24.04	0	12.50	12.48	12.58	0
		3	1	24.18	24.06	24.00	0	12.49	12.48	12.48	0
		3	3	24.17	24.10	24.04	0	12.48	12.58	12.48	0
		6	0	23.15	23.07	23.01	1	12.58	12.49	12.56	0
	16QAM	1	0	23.32	23.29	23.12	1	12.80	12.68	12.92	0
		1	3	23.37	23.30	23.11	1	12.87	12.81	12.79	0
		1	5	23.37	23.30	23.28	1	12.78	12.94	12.83	0
		3	0	23.20	23.18	23.03	1	12.50	12.68	12.64	0
		3	1	23.19	23.21	23.04	1	12.65	12.60	12.65	0
		3	3	23.24	23.16	23.09	1	12.57	12.58	12.71	0
		6	0	22.18	22.10	21.97	2	12.53	12.59	12.60	0
	64QAM	1	0	22.15	22.25	22.04	2	12.73	12.99	12.56	0
		1	3	22.26	22.09	22.09	2	12.56	12.86	12.67	0
		1	5	22.30	22.09	22.32	2	12.64	12.71	12.70	0
		3	0	22.14	22.11	22.12	2	12.74	12.65	12.69	0
		3	1	22.23	22.17	22.14	2	12.60	12.72	12.70	0
		3	3	22.15	22.15	22.03	2	12.58	12.62	12.60	0
		6	0	21.11	21.08	21.06	3	12.64	12.69	12.55	0
	256QAM	1	0	19.17	19.22	19.15	5	12.56	12.69	12.59	0
		1	3	19.18	18.94	19.00	5	12.93	12.80	12.59	0
		1	5	19.40	19.18	19.11	5	12.81	12.68	12.56	0
		3	0	19.05	19.25	19.13	5	12.68	12.66	12.58	0
		3	1	19.21	19.13	19.07	5	12.53	12.68	12.58	0
		3	3	19.16	19.14	19.08	5	12.65	12.69	12.56	0
		6	0	19.12	19.07	19.07	5	12.55	12.64	12.56	0

10.3.9 LTE Band 66(Sub1)

LTE Band 66 (Sub1)											
Band width	Modulation	RB Size	RB offset	Max Average Conducted Power (dBm)			MPR [dB]	Back-off Average Conducted Power (dBm)			MPR [dB]
				132 072	132 322	132 572		132 072	132 322	132 572	
				1 720.0 MHz	1 745.0 MHz	1 770.0 MHz		1 720.0 MHz	1 745.0 MHz	1 770.0 MHz	
20 MHz	QPSK	1	0	22.09	21.92	21.90	0	13.12	13.13	13.11	0
		1	49	22.53	22.45	22.41	0	13.30	13.28	13.12	0
		1	99	22.04	21.96	21.89	0	13.05	13.23	12.93	0
		50	0	21.12	21.21	21.27	1	13.16	13.18	12.90	0
		50	24	21.40	21.39	21.35	1	13.32	13.27	13.13	0
		50	50	21.19	21.20	21.24	1	13.06	13.15	12.93	0
		100	0	21.30	21.27	21.29	1	13.14	13.13	12.92	0
	16QAM	1	0	21.19	21.12	21.05	1	13.00	13.02	13.06	0
		1	49	21.57	21.44	21.62	1	13.45	13.47	13.14	0
		1	99	21.14	21.01	21.11	1	13.07	13.25	13.18	0
		50	0	20.18	20.22	20.22	2	13.12	13.16	12.97	0
		50	24	20.33	20.31	20.38	2	13.22	13.29	13.01	0
		50	50	20.14	20.26	20.24	2	13.15	13.24	12.92	0
		100	0	20.20	20.18	20.23	2	13.13	13.13	12.88	0
	64QAM	1	0	20.02	19.92	20.06	2	12.94	13.09	13.08	0
		1	49	20.41	20.60	20.57	2	13.41	13.44	13.08	0
		1	99	20.04	20.15	20.10	2	13.04	13.11	12.89	0
		50	0	19.24	19.28	19.25	3	13.04	13.18	12.89	0
		50	24	19.36	19.31	19.40	3	13.23	13.37	12.98	0
		50	50	19.25	19.25	19.22	3	13.05	13.11	12.98	0
		100	0	19.20	19.13	19.29	3	13.11	13.14	12.94	0
	256QAM	1	0	17.03	17.20	17.06	5	12.84	12.97	13.05	0
		1	49	17.46	17.55	17.29	5	13.41	13.41	13.20	0
		1	99	17.08	17.05	17.01	5	12.94	12.94	12.86	0
		50	0	17.29	17.18	17.24	5	13.14	13.20	12.87	0
		50	24	17.40	17.32	17.42	5	13.21	13.29	12.97	0
		50	50	17.24	17.21	17.28	5	13.01	13.18	12.88	0
		100	0	17.24	17.26	17.28	5	13.09	13.13	12.97	0

LTE Band 66 (Sub1)											
Band width	Modulation	RB Size	RB offset	Max Average Conducted Power (dBm)			MPR [dB]	Back-off Average Conducted Power (dBm)			MPR [dB]
				132 047	132 322	132 597		132 047	132 322	132 597	
				1 717.5 MHz	1 745.0 MHz	1 772.5 MHz		1 717.5 MHz	1 745.0 MHz	1 772.5 MHz	
15 MHz	QPSK	1	0	22.01	21.92	21.86	0	13.25	13.19	13.24	0
		1	36	22.60	22.17	22.28	0	13.00	12.95	13.28	0
		1	74	22.53	22.34	22.08	0	13.32	13.17	13.48	0
		36	0	21.06	21.23	21.29	1	13.07	13.01	13.33	0
		36	18	21.12	21.15	21.20	1	12.91	12.88	13.20	0
		36	37	21.27	21.18	21.11	1	13.20	13.06	13.27	0
		75	0	21.19	21.17	21.30	1	13.02	13.01	13.22	0
	16QAM	1	0	21.62	21.25	21.40	1	13.18	13.14	13.09	0
		1	36	21.55	21.44	21.63	1	13.24	13.26	13.50	0
		1	74	21.84	21.36	21.55	1	13.52	13.31	13.40	0
		36	0	20.24	20.10	20.15	2	13.09	13.00	13.18	0
		36	18	20.10	19.94	20.16	2	13.09	12.98	13.22	0
		36	37	20.44	20.14	20.12	2	13.04	13.00	13.35	0
		75	0	20.05	19.93	20.20	2	13.00	12.97	13.23	0
	64QAM	1	0	20.02	19.81	20.17	2	13.13	12.93	12.91	0
		1	36	20.34	20.29	20.36	2	13.15	13.11	13.43	0
		1	74	20.39	20.26	20.45	2	13.32	13.23	13.46	0
		36	0	19.28	19.18	19.35	3	13.14	13.02	13.33	0
		36	18	19.16	19.04	19.30	3	13.19	13.02	13.36	0
		36	37	19.19	19.02	19.36	3	13.06	13.02	13.15	0
		75	0	19.23	19.16	19.21	3	12.93	12.91	13.09	0
	256QAM	1	0	16.80	17.12	17.00	5	13.07	12.96	12.93	0
		1	36	17.31	17.40	17.35	5	13.05	13.10	13.29	0
		1	74	17.24	17.01	16.92	5	13.01	13.01	13.13	0
		36	0	17.13	17.01	17.57	5	13.07	13.04	13.41	0
		36	18	17.11	17.20	17.12	5	13.01	12.97	13.29	0
		36	37	17.30	16.97	17.14	5	13.18	12.99	13.28	0
		75	0	17.21	17.05	17.16	5	13.12	13.08	13.20	0

LTE Band 66 (Sub1)											
Band width	Modulation	RB Size	RB offset	Max Average Conducted Power (dBm)			MPR [dB]	Back-off Average Conducted Power (dBm)			MPR [dB]
				132 022	132 322	132 622		132 022	132 322	132 622	
				1 715.0 MHz	1 745.0 MHz	1 775.0 MHz		1 715.0 MHz	1 745.0 MHz	1 775.0 MHz	
10 MHz	QPSK	1	0	22.15	22.13	22.13	0	13.11	13.08	13.15	0
		1	25	22.16	22.29	22.55	0	13.19	13.22	13.46	0
		1	49	21.99	22.29	22.12	0	13.37	13.15	13.45	0
		25	0	20.77	21.19	21.37	1	13.12	13.08	13.31	0
		25	12	20.91	21.13	21.40	1	13.12	13.08	13.32	0
		25	25	20.92	21.11	21.40	1	13.28	13.15	13.32	0
		50	0	20.96	21.31	21.42	1	13.03	13.07	13.24	0
	16QAM	1	0	21.37	21.27	21.31	1	13.26	13.28	13.26	0
		1	25	21.25	21.39	21.40	1	13.38	13.36	13.52	0
		1	49	21.31	21.43	21.30	1	13.40	13.52	13.55	0
		25	0	20.05	20.17	20.49	2	13.13	13.07	13.24	0
		25	12	19.98	20.11	20.31	2	13.19	13.08	13.33	0
		25	25	20.15	20.28	20.43	2	13.17	13.13	13.44	0
		50	0	19.93	20.01	20.14	2	13.12	13.15	13.37	0
	64QAM	1	0	19.80	20.15	20.20	2	13.45	13.25	13.26	0
		1	25	20.05	20.50	20.60	2	13.31	13.30	13.48	0
		1	49	20.16	20.31	20.53	2	13.30	13.20	13.45	0
		25	0	18.93	19.23	19.43	3	13.30	13.13	13.45	0
		25	12	18.78	19.09	19.54	3	13.32	13.16	13.59	0
		25	25	19.06	19.21	19.32	3	13.17	13.12	13.21	0
		50	0	18.86	19.03	19.46	3	13.09	13.09	13.32	0
	256QAM	1	0	16.90	17.26	16.96	5	13.28	13.12	13.07	0
		1	25	17.07	17.51	17.28	5	13.26	13.31	13.49	0
		1	49	17.05	17.05	17.07	5	13.22	13.20	13.26	0
		25	0	16.76	17.14	17.42	5	13.26	13.16	13.48	0
		25	12	16.77	17.08	17.45	5	13.26	13.16	13.46	0
		25	25	17.05	17.12	17.44	5	13.34	13.15	13.44	0
		50	0	16.81	17.10	17.26	5	13.16	13.14	13.31	0

LTE Band 66 (Sub1)											
Band width	Modulation	RB Size	RB offset	Max Average Conducted Power (dBm)			MPR [dB]	Back-off Average Conducted Power (dBm)			MPR [dB]
				131 997	132 322	132 647		131 997	132 322	132 647	
				1 712.5 MHz	1 745.0 MHz	1 777.5 MHz		1 712.5 MHz	1 745.0 MHz	1 777.5 MHz	
5 MHz	QPSK	1	0	22.25	22.13	21.99	0	13.09	13.04	13.03	0
		1	12	22.41	22.27	22.43	0	13.14	13.15	13.42	0
		1	24	22.34	22.30	21.98	0	13.32	13.12	13.38	0
		12	0	21.13	21.07	21.49	1	13.07	13.09	13.34	0
		12	7	20.97	21.17	21.45	1	13.08	13.08	13.34	0
		12	13	21.23	21.13	21.40	1	13.33	13.23	13.45	0
		25	0	21.15	21.27	21.34	1	13.21	13.15	13.35	0
	16QAM	1	0	21.82	21.38	21.43	1	13.20	13.22	13.14	0
		1	12	21.64	21.36	21.60	1	13.57	13.59	13.50	0
		1	24	21.69	21.40	21.54	1	13.54	13.34	13.42	0
		12	0	20.22	20.11	20.43	2	13.17	13.11	13.28	0
		12	7	20.12	20.26	20.48	2	13.17	13.11	13.43	0
		12	13	20.48	20.15	20.47	2	13.26	13.12	13.43	0
		25	0	19.99	19.95	20.19	2	13.12	13.13	13.33	0
	64QAM	1	0	20.13	20.11	20.11	2	13.39	13.20	13.22	0
		1	12	20.51	20.53	20.65	2	13.45	13.42	13.51	0
		1	24	20.51	20.48	20.78	2	13.39	13.30	13.50	0
		12	0	19.24	19.34	19.48	3	13.35	13.17	13.51	0
		12	7	19.13	19.27	19.39	3	13.34	13.18	13.52	0
		12	13	19.39	19.21	19.45	3	13.17	13.07	13.15	0
		25	0	19.18	19.30	19.39	3	13.08	13.08	13.24	0
	256QAM	1	0	17.11	17.20	17.15	5	13.25	13.10	13.04	0
		1	12	17.48	17.47	17.53	5	13.34	13.30	13.49	0
		1	24	17.19	17.26	17.31	5	13.10	13.08	13.12	0
		12	0	17.04	17.17	17.39	5	13.20	13.13	13.47	0
		12	7	17.13	17.11	17.24	5	13.16	13.10	13.38	0
		12	13	17.35	17.12	17.21	5	13.25	13.09	13.39	0
		25	0	17.10	17.11	17.38	5	13.12	13.13	13.28	0

LTE Band 66 (Sub1)											
Band width	Modulation	RB Size	RB offset	Max Average Conducted Power (dBm)			MPR [dB]	Back-off Average Conducted Power (dBm)			MPR [dB]
				131 987	132 322	132 657		131 987	132 322	132 657	
				1 711.5 MHz	1 745.0 MHz	1 778.5 MHz		1 711.5 MHz	1 745.0 MHz	1 778.5 MHz	
3 MHz	QPSK	1	0	22.19	22.07	22.03	0	13.04	13.03	13.03	0
		1	8	22.20	22.32	22.46	0	13.18	13.15	13.40	0
		1	14	22.30	22.29	22.00	0	13.28	13.11	13.43	0
		8	0	20.91	21.21	21.43	1	13.15	13.15	13.47	0
		8	4	21.07	21.36	21.42	1	13.14	13.04	13.34	0
		8	7	21.28	21.25	21.44	1	13.23	13.13	13.36	0
		15	0	21.19	21.48	21.52	1	13.00	13.03	13.24	0
	16QAM	1	0	21.50	21.39	21.46	1	13.20	13.17	13.23	0
		1	8	21.35	21.49	21.65	1	13.52	13.45	13.43	0
		1	14	21.73	21.39	21.54	1	13.34	13.21	13.26	0
		8	0	20.20	20.28	20.37	2	13.25	13.20	13.37	0
		8	4	20.05	20.31	20.53	2	13.09	13.04	13.30	0
		8	7	20.28	20.29	20.44	2	13.21	13.15	13.48	0
		15	0	20.07	20.17	20.36	2	13.07	13.10	13.32	0
	64QAM	1	0	20.22	20.23	20.24	2	13.35	13.17	13.15	0
		1	8	20.35	20.58	20.47	2	13.34	13.36	13.47	0
		1	14	20.54	20.64	20.61	2	13.16	13.14	13.31	0
		8	0	19.19	19.42	19.64	3	13.25	13.10	13.41	0
		8	4	19.07	19.32	19.38	3	13.19	13.06	13.40	0
		8	7	19.09	19.26	19.31	3	13.14	13.06	13.15	0
		15	0	19.16	19.19	19.30	3	13.06	13.02	13.26	0
	256QAM	1	0	17.00	17.28	17.04	5	13.24	13.15	13.06	0
		1	8	17.41	17.72	17.45	5	13.35	13.32	13.53	0
		1	14	17.33	17.35	17.26	5	13.24	13.21	13.24	0
		8	0	17.00	17.28	17.43	5	13.18	13.15	13.45	0
		8	4	17.07	17.25	17.38	5	13.23	13.11	13.44	0
		8	7	17.17	17.08	17.23	5	13.29	13.10	13.42	0
		15	0	17.00	17.21	17.43	5	13.06	13.02	13.16	0

LTE Band 66 (Sub1)											
Band width	Modulation	RB Size	RB offset	Max Average Conducted Power (dBm)			MPR [dB]	Back-off Average Conducted Power (dBm)			MPR [dB]
				131 979	132 322	132 665		131 979	132 322	132 665	
				1 710.7 MHz	1 745.0 MHz	1 779.3 MHz		1 710.7 MHz	1 745.0 MHz	1 779.3 MHz	
1.4 MHz	QPSK	1	0	22.37	22.21	22.04	0	13.17	13.13	13.13	0
		1	3	22.62	22.19	22.48	0	13.29	13.30	13.55	0
		1	5	22.43	22.23	22.04	0	13.27	13.04	13.36	0
		3	0	22.27	22.22	22.43	0	13.15	13.12	13.36	0
		3	1	22.48	22.23	22.57	0	13.35	13.26	13.50	0
		3	3	22.39	22.11	22.34	0	13.14	13.10	13.27	0
		6	0	21.37	21.27	21.35	1	13.13	13.10	13.30	0
	16QAM	1	0	21.77	21.53	21.58	1	13.43	13.41	13.41	0
		1	3	21.76	21.30	21.43	1	13.54	13.55	13.57	0
		1	5	21.81	21.33	21.51	1	13.34	13.15	13.17	0
		3	0	21.57	21.49	21.68	1	13.24	13.17	13.38	0
		3	1	21.30	21.29	21.46	1	13.32	13.28	13.51	0
		3	3	21.46	21.68	21.84	1	13.36	13.25	13.52	0
		6	0	20.17	20.17	20.37	2	13.08	13.07	13.31	0
	64QAM	1	0	20.30	20.27	20.19	2	13.51	13.41	13.47	0
		1	3	20.47	20.53	20.50	2	13.28	13.25	13.54	0
		1	5	20.30	20.37	20.42	2	13.37	13.27	13.50	0
		3	0	20.35	20.39	20.43	2	13.31	13.21	13.45	0
		3	1	20.33	20.25	20.34	2	13.45	13.31	13.49	0
		3	3	20.38	20.35	20.29	2	13.16	13.14	13.23	0
		6	0	19.34	19.16	19.24	3	13.11	13.11	13.30	0
	256QAM	1	0	16.84	17.38	17.20	5	13.43	13.27	13.22	0
		1	3	17.55	17.63	17.49	5	13.19	13.20	13.36	0
		1	5	17.17	17.09	17.20	5	13.10	13.06	13.15	0
		3	0	17.29	17.36	17.43	5	13.15	13.13	13.51	0
		3	1	17.21	17.25	17.28	5	13.30	13.17	13.46	0
		3	3	17.42	17.15	17.34	5	13.21	13.09	13.36	0
		6	0	17.13	17.13	17.28	5	13.10	13.02	13.13	0

10.4 5G NR Average Conducted Output Power

10.4.1 NR n5(SA)

Band width	Modulation	Mode	RB Size	RB offset	Max Average Conducted Power (dBm)	MPR [dB]	Back-off Average Conducted Power (dBm)	MPR [dB]
					167 300		167 300	
					836.5 MHz		836.5 MHz	
20 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	22.96	0	15.91	0
			1	53	23.08	0	15.92	0
			1	104	22.98	0	15.95	0
			50	0	22.54	0.5	15.99	0
			50	28	23.07	0	15.97	0
			50	56	22.47	0.5	15.91	0
			100	0	22.57	0.5	16.00	0
		QPSK	1	1	23.09	0	16.01	0
			1	53	23.05	0	15.94	0
			1	104	23.04	0	15.93	0
			50	0	22.03	1	16.04	0
			50	28	23.08	0	15.95	0
			50	56	21.96	1	15.91	0
			100	0	22.07	1	16.00	0
		16QAM	1	1	21.98	1	15.87	0
		64QAM	1	1	20.58	2.5	16.07	0
		256QAM	1	1	17.97	4.5	15.51	0
	CP-OFDM	QPSK	1	1	21.61	1.5	16.00	0

Band width	Modulation	Mode	RB Size	RB offset	Max Average Conducted Power (dBm)	MPR [dB]	Back-off Average Conducted Power (dBm)	MPR [dB]
					167 300		167 300	
					836.5 MHz		836.5 MHz	
15 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	23.07	0	16.12	0
			1	40	23.09	0	15.98	0
			1	77	22.93	0	15.92	0
			36	0	22.50	0.5	16.03	0
			36	22	23.09	0	16.03	0
			36	43	22.44	0.5	15.99	0
			75	0	22.49	0.5	16.06	0
		QPSK	1	1	23.17	0	16.09	0
			1	40	23.10	0	16.05	0
			1	77	22.99	0	16.01	0
			36	0	22.01	1	16.12	0
			36	22	23.10	0	16.08	0
			36	43	21.99	1	15.98	0
			75	0	22.06	1	16.06	0
		16QAM	1	1	22.04	1	16.11	0
		64QAM	1	1	20.56	2.5	16.16	0
		256QAM	1	1	18.05	4.5	15.63	0
	CP-OFDM	QPSK	1	1	21.59	1.5	16.17	0

Band width	Modulation	Mode	RB Size	RB offset	Max Average Conducted Power (dBm)	MPR [dB]	Back-off Average Conducted Power (dBm)	MPR [dB]
					167 300		167 300	
					836.5 MHz		836.5 MHz	
10 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	22.81	0	15.79	0
			1	26	23.02	0	15.84	0
			1	50	22.90	0	15.78	0
			25	0	22.48	0.5	15.98	0
			25	14	23.01	0	15.96	0
			25	27	22.53	0.5	15.94	0
			50	0	22.51	0.5	15.94	0
		QPSK	1	1	22.94	0	15.81	0
			1	26	23.07	0	15.87	0
			1	50	22.99	0	15.87	0
			25	0	21.90	1	15.97	0
			25	14	23.04	0	15.93	0
			25	27	21.94	1	15.88	0
			50	0	21.98	1	15.92	0
		16QAM	1	1	21.80	1	15.74	0
		64QAM	1	1	20.38	2.5	15.93	0
		256QAM	1	1	17.76	4.5	15.23	0
	CP-OFDM	QPSK	1	1	21.56	1.5	15.87	0

Band width	Modulation	Mode	RB Size	RB offset	Max Average Conducted Power (dBm)			MPR [dB]	Back-off Average Conducted Power (dBm)			MPR [dB]
					165 300	167 300	169 300		165 300	167 300	169 300	
					826.5 MHz	836.5 MHz	846.5 MHz		826.5 MHz	836.5 MHz	846.5 MHz	
5 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	22.88	22.97	22.97	0	15.84	15.94	15.97	0
			1	13	22.86	22.93	22.77	0	15.81	15.88	15.90	0
			1	23	22.97	22.94	22.79	0	15.93	15.91	15.94	0
			12	0	22.31	22.34	22.45	0.5	15.88	15.92	15.96	0
			12	7	22.94	23.00	22.88	0	15.78	15.89	15.88	0
			12	13	22.56	22.36	22.31	0.5	15.95	15.88	15.88	0
			25	0	22.64	22.41	22.49	0.5	16.00	15.92	15.98	0
		QPSK	1	1	23.07	23.01	22.99	0	15.85	15.94	15.95	0
			1	13	22.95	22.97	22.74	0	15.77	15.90	15.87	0
			1	23	23.13	23.01	22.78	0	15.91	15.89	15.90	0
			12	0	21.98	21.82	21.88	1	15.86	15.95	15.94	0
			12	7	22.91	23.02	22.90	0	15.84	15.92	15.93	0
			12	13	22.19	21.85	21.60	1	15.91	15.94	15.87	0
			25	0	22.01	21.86	21.79	1	15.90	15.90	15.96	0
		16QAM	1	1	21.94	21.94	21.92	1	15.85	15.93	15.97	0
		64QAM	1	1	20.67	20.44	20.47	2.5	16.02	16.06	16.08	0
		256QAM	1	1	17.92	17.89	17.91	4.5	15.36	15.47	15.48	0
	CP-OFDM	QPSK	1	1	21.49	21.44	21.54	1.5	15.88	15.98	16.06	0

10.4.2 NR n26(SA)

Band width	Modulation	Mode	RB Size	RB offset	Max Average Conducted Power (dBm)	MPR [dB]	Back-off Average Conducted Power (dBm)	MPR [dB]
					166 300		166 300	
					831.5 MHz		831.5 MHz	
20 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	22.92	0	15.80	0
			1	53	22.91	0	15.84	0
			1	104	22.87	0	15.78	0
			50	0	22.45	0.5	15.87	0
			50	28	22.90	0	15.83	0
			50	56	22.30	0.5	15.79	0
			100	0	22.42	0.5	15.90	0
		QPSK	1	1	23.00	0	15.89	0
			1	53	22.91	0	15.86	0
			1	104	22.90	0	15.85	0
			50	0	21.93	1	15.92	0
			50	28	22.94	0	15.81	0
			50	56	21.86	1	15.76	0
			100	0	21.95	1	15.87	0
		16QAM	1	1	21.90	1	15.80	0
		64QAM	1	1	20.58	2.5	15.92	0
		256QAM	1	1	17.89	4.5	15.29	0
	CP-OFDM	QPSK	1	1	21.51	1.5	15.90	0

Band width	Modulation	Mode	RB Size	RB offset	Max Average Conducted Power (dBm)	MPR [dB]	Back-off Average Conducted Power (dBm)	MPR [dB]
					166 300		166 300	
					831.5 MHz		831.5 MHz	
15 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	22.95	0	15.95	0
			1	40	22.98	0	15.91	0
			1	77	22.74	0	15.78	0
			36	0	22.36	0.5	15.89	0
			36	22	22.85	0	15.82	0
			36	43	22.19	0.5	15.80	0
			75	0	22.28	0.5	15.89	0
		QPSK	1	1	22.92	0	15.94	0
			1	40	22.99	0	15.88	0
			1	77	22.79	0	15.82	0
			36	0	22.11	1	15.93	0
			36	22	22.83	0	15.86	0
			36	43	21.94	1	15.88	0
			75	0	22.24	1	15.89	0
		16QAM	1	1	21.89	1	15.88	0
		64QAM	1	1	20.59	2.5	16.11	0
		256QAM	1	1	17.95	4.5	15.41	0
	CP-OFDM	QPSK	1	1	21.60	1.5	16.05	0

Band width	Modulation	Mode	RB Size	RB offset	Max Average Conducted Power (dBm)	MPR [dB]	Back-off Average Conducted Power (dBm)	MPR [dB]
					166 300		166 300	
					831.5 MHz		831.5 MHz	
10 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	22.75	0	15.71	0
			1	26	22.86	0	15.80	0
			1	50	22.72	0	15.66	0
			25	0	22.26	0.5	15.81	0
			25	14	22.74	0	15.75	0
			25	27	22.10	0.5	15.80	0
			50	0	22.20	0.5	15.82	0
		QPSK	1	1	22.81	0	15.71	0
			1	26	22.72	0	15.75	0
			1	50	22.63	0	15.74	0
			25	0	22.05	1	15.83	0
			25	14	22.70	0	15.82	0
			25	27	21.86	1	15.78	0
			50	0	22.05	1	15.79	0
		16QAM	1	1	21.72	1	15.66	0
		64QAM	1	1	20.45	2.5	15.84	0
		256QAM	1	1	17.58	4.5	15.20	0
	CP-OFDM	QPSK	1	1	21.26	1.5	15.83	0

Band width	Modulation	Mode	RB Size	RB offset	Max Average Conducted Power (dBm)			MPR [dB]	Back-off Average Conducted Power (dBm)			MPR [dB]
					163 300	166 300	169 300		163 300	166 300	169 300	
					816.5 MHz	831.5 MHz	846.5 MHz		816.5 MHz	831.5 MHz	846.5 MHz	
5 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	22.82	22.78	22.84	0	15.75	15.78	15.84	0
			1	13	22.79	22.86	22.87	0	15.76	15.72	15.85	0
			1	23	22.87	22.81	22.87	0	15.69	15.77	15.84	0
			12	0	22.24	22.06	22.20	0.5	15.75	15.73	15.81	0
			12	7	22.80	22.77	22.79	0	15.74	15.77	15.85	0
			12	13	22.33	22.25	22.29	0.5	15.74	15.75	15.86	0
			25	0	22.40	22.19	22.36	0.5	15.75	15.75	15.93	0
		QPSK	1	1	22.90	22.82	22.84	0	15.79	15.79	15.83	0
			1	13	22.78	22.91	22.78	0	15.74	15.75	15.94	0
			1	23	22.91	22.86	22.82	0	15.79	15.68	15.87	0
			12	0	21.82	21.90	21.71	1	15.75	15.78	15.78	0
			12	7	22.79	22.75	22.81	0	15.77	15.74	15.91	0
			12	13	21.93	21.78	21.44	1	15.78	15.80	15.90	0
			25	0	21.84	21.94	21.72	1	15.82	15.81	15.87	0
		16QAM	1	1	21.84	21.78	21.80	1	15.77	15.77	15.82	0
		64QAM	1	1	20.46	20.29	20.34	2.5	15.94	15.93	15.96	0
		256QAM	1	1	17.91	17.51	17.76	4.5	15.24	15.31	15.35	0
	CP-OFDM	QPSK	1	1	21.43	21.27	21.25	1.5	15.81	15.89	15.87	0

10.4.3 NR n41 SRS 1 (SA)

Band width	Modulation	Mode	RB Size	RB offset	Max Average Conducted Power (dBm)	MPR [dB]	Back-off Average Conducted Power (dBm)	MPR [dB]
					518 598		518 598	
					2 592.99 MHz		2 592.99 MHz	
100 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	18.40	0	10.44	0
			1	137	18.05	0	10.29	0
			1	271	17.97	0	10.28	0
			135	0	18.05	0	10.19	0
			135	69	18.04	0	10.32	0
			135	138	17.97	0	10.22	0
			270	0	17.98	0	10.19	0
		QPSK	1	1	18.70	0	10.29	0
			1	137	18.35	0	10.10	0
			1	271	18.30	0	10.09	0
			135	0	18.16	0	10.20	0
			135	69	18.35	0	10.20	0
			135	138	18.07	0	10.22	0
			270	0	18.10	0	10.20	0
		16QAM	1	1	18.09	0	10.21	0
		64QAM	1	1	18.08	0	10.22	0
		256QAM	1	1	16.94	0	9.77	0
	CP-OFDM	QPSK	1	1	17.79	0	10.02	0

Band width	Modulation	Mode	RB Size	RB offset	Max Average Conducted Power (dBm)		MPR [dB]	Back-off Average Conducted Power (dBm)		MPR [dB]
					508 200	528 996		508 200	528 996	
					2 541.00 MHz	2 644.98 MHz		2 541.00 MHz	2 644.98 MHz	
90 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	18.01	17.96	0	10.08	10.20	0
			1	123	18.66	18.25	0	10.41	10.37	0
			1	243	18.72	17.48	0	10.58	10.13	0
			120	0	17.95	18.35	0	10.17	10.64	0
			120	63	18.51	18.08	0	10.36	10.37	0
			120	125	18.52	17.71	0	10.52	10.11	0
			243	0	18.22	18.02	0	10.18	10.35	0
		QPSK	1	1	17.64	17.64	0	10.12	10.20	0
			1	123	18.45	17.97	0	10.27	10.08	0
			1	243	18.47	17.23	0	10.42	9.89	0
			120	0	17.55	17.96	0	10.10	10.43	0
			120	63	18.31	17.89	0	10.14	10.15	0
			120	125	18.16	17.31	0	10.30	9.89	0
			243	0	17.86	17.63	0	9.98	10.15	0
		16QAM	1	1	17.48	17.91	0	10.03	9.97	0
		64QAM	1	1	17.32	17.83	0	9.84	10.16	0
		256QAM	1	1	16.74	17.32	0	9.74	10.05	0
	CP-OFDM	QPSK	1	1	17.17	17.99	0	10.07	9.89	0

Band width	Modulation	Mode	RB Size	RB offset	Max Average Conducted Power (dBm)		MPR [dB]	Back-off Average Conducted Power (dBm)		MPR [dB]
					507 204	529 998		507 204	529 998	
					2 536.02 MHz	2 649.99 MHz		2 536.02 MHz	2 649.99 MHz	
80 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	17.98	17.78	0	10.08	10.11	0
			1	109	18.55	18.00	0	10.34	10.22	0
			1	215	18.65	17.30	0	10.53	10.04	0
			108	0	17.81	18.23	0	10.08	10.51	0
			108	55	18.37	17.93	0	10.28	10.24	0
			108	109	18.53	17.61	0	10.49	10.01	0
			216	0	18.16	17.90	0	10.15	10.28	0
		QPSK	1	1	17.70	17.60	0	10.00	10.12	0
			1	109	18.43	17.83	0	10.10	9.91	0
			1	215	18.54	17.15	0	10.28	9.72	0
			108	0	17.40	17.85	0	10.01	10.31	0
			108	55	18.21	17.78	0	10.09	10.03	0
			108	109	18.12	17.22	0	10.30	9.80	0
			216	0	17.74	17.52	0	9.95	10.06	0
		16QAM	1	1	17.24	17.89	0	10.38	10.03	0
		64QAM	1	1	17.08	17.61	0	9.76	9.94	0
		256QAM	1	1	16.70	17.58	0	9.90	10.02	0
	CP-OFDM	QPSK	1	1	17.05	17.91	0	10.00	9.74	0

Band width	Modulation	Mode	RB Size	RB offset	Max Average Conducted Power (dBm)		MPR [dB]	Back-off Average Conducted Power (dBm)		MPR [dB]
					506 202	531 000		506 202	531 000	
					2 531.01 MHz	2 655.00 MHz		2 531.01 MHz	2 655.00 MHz	
70 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	18.03	17.81	0	10.14	10.06	0
			1	95	18.42	18.16	0	10.26	10.29	0
			1	187	18.72	17.65	0	10.58	10.30	0
			90	0	17.68	18.28	0	9.94	10.49	0
			90	50	18.33	18.10	0	10.21	10.28	0
			90	99	18.55	17.83	0	10.50	10.14	0
			180	0	17.72	18.04	0	10.06	10.33	0
		QPSK	1	1	17.60	17.95	0	10.13	10.12	0
			1	95	18.22	18.00	0	10.09	10.04	0
			1	187	18.49	17.48	0	10.39	10.05	0
			90	0	17.30	17.87	0	9.87	10.27	0
			90	50	18.14	17.89	0	9.99	10.06	0
			90	99	18.15	17.41	0	10.29	9.91	0
			180	0	17.70	17.65	0	9.86	10.10	0
		16QAM	1	1	17.55	17.99	0	10.27	9.84	0
		64QAM	1	1	17.21	17.73	0	9.84	10.06	0
		256QAM	1	1	16.51	17.20	0	9.93	9.79	0
	CP-OFDM	QPSK	1	1	17.06	18.03	0	9.89	9.69	0

Band width	Modulation	Mode	RB Size	RB offset	Max Average Conducted Power (dBm)			MPR [dB]	Back-off Average Conducted Power (dBm)			MPR [dB]
					505 200	518 598	531 996		505 200	518 598	531 996	
					2 526.00 MHz	2 592.99 MHz	2 659.98 MHz		2 526.00 MHz	2 592.99 MHz	2 659.98 MHz	
60 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	17.91	18.53	17.70	0	10.17	10.45	9.90	0
			1	81	18.30	18.40	18.04	0	10.14	10.46	10.17	0
			1	160	18.57	18.53	17.53	0	10.06	10.59	10.20	0
			81	0	17.56	18.31	18.18	0	9.89	10.48	10.30	0
			81	41	18.21	18.35	18.02	0	10.11	10.50	10.15	0
			81	81	18.42	18.35	17.73	0	10.50	10.59	10.00	0
			162	0	17.59	18.30	17.93	0	10.02	10.52	10.14	0
		QPSK	1	1	17.63	18.39	17.62	0	10.01	10.27	10.04	0
			1	81	18.24	18.24	17.66	0	9.82	10.28	9.99	0
			1	160	18.55	18.38	17.13	0	10.07	10.38	10.03	0
			81	0	17.30	17.93	17.55	0	9.82	10.28	10.12	0
			81	41	18.15	18.17	17.59	0	9.90	10.30	9.95	0
			81	81	18.16	17.96	17.06	0	10.29	10.39	9.81	0
			162	0	17.71	17.95	17.31	0	9.83	10.32	9.96	0
		16QAM	1	1	17.49	17.80	17.82	0	9.85	10.30	9.58	0
		64QAM	1	1	17.13	17.79	17.62	0	9.71	10.21	9.85	0
		256QAM	1	1	16.56	17.23	17.33	0	9.81	9.79	10.00	0
	CP-OFDM	QPSK	1	1	17.00	17.88	17.88	0	9.89	9.98	9.50	0

Band width	Modulation	Mode	RB Size	RB offset	Max Average Conducted Power (dBm)			MPR [dB]	Back-off Average Conducted Power (dBm)			MPR [dB]
					504 204	518 598	532 998		504 204	518 598	532 998	
					2 521.02 MHz	2 592.99 MHz	2 664.99 MHz		2 521.02 MHz	2 592.99 MHz	2 664.99 MHz	
50 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	17.89	18.61	17.54	0	10.33	10.29	10.20	0
			1	67	18.30	18.50	17.91	0	10.02	10.32	10.30	0
			1	131	18.58	18.60	17.40	0	10.32	10.42	10.42	0
			64	0	17.52	18.39	18.01	0	9.86	10.34	10.44	0
			64	35	18.21	18.46	17.80	0	10.04	10.33	10.28	0
			64	69	18.44	18.40	17.53	0	10.52	10.40	10.14	0
			128	0	17.60	18.38	17.80	0	10.00	10.39	10.31	0
		QPSK	1	1	17.70	18.53	17.56	0	10.27	10.27	10.11	0
			1	67	18.32	18.41	17.61	0	9.85	10.31	10.07	0
			1	131	18.59	18.49	17.09	0	10.31	10.36	10.20	0
			64	0	17.42	18.08	17.49	0	9.82	10.29	10.24	0
			64	35	18.22	18.34	17.50	0	9.86	10.33	10.08	0
			64	69	18.24	18.12	17.04	0	10.30	10.37	9.93	0
			128	0	17.79	18.07	17.29	0	9.81	10.32	10.08	0
		16QAM	1	1	17.46	18.48	18.00	0	10.24	10.21	9.55	0
		64QAM	1	1	17.13	18.01	17.95	0	9.76	10.00	10.03	0
		256QAM	1	1	16.73	17.35	17.22	0	10.11	9.91	9.39	0
	CP-OFDM	QPSK	1	1	17.29	18.07	18.05	0	10.18	9.79	9.67	0

Band width	Modulation	Mode	RB Size	RB offset	Max Average Conducted Power (dBm)				MPR [dB]	Back-off Average Conducted Power (dBm)				MPR [dB]
					503 202	513 468	523 734	534 000		503 202	513 468	523 734	534 000	
					2516.01 MHz	2567.34 MHz	2618.67 MHz	2670.00 MHz		2516.01 MHz	2567.34 MHz	2618.67 MHz	2670.00 MHz	
40 MHz	DFT-s-OFDM	π/2 BPSK	1	1	17.73	18.03	18.10	18.31	0	10.20	10.06	10.19	10.43	0
			1	53	17.88	18.02	17.75	18.02	0	9.98	10.14	10.20	10.27	0
			1	104	18.59	17.96	17.78	17.69	0	10.21	10.33	10.02	9.75	0
			50	0	17.90	17.97	17.92	18.04	0	9.71	10.08	10.24	10.39	0
			50	28	18.53	17.95	17.77	17.89	0	9.91	10.13	10.22	10.26	0
			50	56	18.79	17.90	17.78	17.70	0	10.37	10.23	10.16	10.04	0
			100	0	18.28	17.93	17.74	17.86	0	9.85	10.14	10.21	10.24	0
		QPSK	1	1	17.39	17.96	17.98	18.17	0	10.14	9.98	10.15	10.36	0
			1	53	17.53	17.91	17.57	17.86	0	9.76	10.05	10.16	10.19	0
			1	104	18.29	17.91	17.74	17.48	0	10.17	10.25	10.00	9.70	0
			50	0	17.71	17.69	17.56	17.76	0	9.65	9.89	10.07	10.17	0
			50	28	18.26	17.78	17.61	17.76	0	9.70	10.06	10.14	10.17	0
			50	56	18.64	17.60	17.36	17.41	0	10.14	10.03	9.96	9.83	0
			100	0	18.12	17.62	17.40	17.54	0	9.62	9.95	10.01	10.04	0
		16QAM	1	1	17.35	17.79	17.61	18.08	0	10.16	9.32	9.90	9.96	0
		64QAM	1	1	17.60	17.70	17.71	17.81	0	9.75	10.06	10.09	10.37	0
		256QAM	1	1	16.58	17.34	17.49	17.20	0	9.63	9.44	9.70	9.94	0
	CP-OFDM	QPSK	1	1	17.48	17.67	17.60	17.97	0	9.90	9.75	9.87	9.98	0

Band width	Modulation	Mode	RB Size	RB offset	Max Average Conducted Power (dBm)				MPR [dB]	Back-off Average Conducted Power (dBm)				MPR [dB]
					502 200	510 402	518 598	526 800		502 200	510 402	518 598	526 800	
					2511.00 MHz	2552.01 MHz	2592.99 MHz	2634.00 MHz		2511.00 MHz	2552.01 MHz	2592.99 MHz	2634.00 MHz	
30 MHz	DFT-s-OFDM	π/2 BPSK	1	1	17.97	18.06	17.93	18.02	0	10.19	10.04	10.32	10.30	0
			1	39	17.63	18.02	17.74	17.65	0	10.13	10.03	10.34	10.08	0
			1	76	18.33	18.01	17.92	17.71	0	9.91	10.08	10.46	9.99	0
			36	0	17.84	17.99	17.79	17.82	0	9.99	10.01	10.24	10.17	0
			36	21	18.34	17.96	17.70	17.67	0	10.03	9.98	10.25	10.04	0
			36	42	18.54	17.94	17.79	17.68	0	10.36	10.00	10.30	9.97	0
			75	0	18.16	17.96	17.62	17.65	0	9.92	10.01	10.26	10.07	0
		QPSK	1	1	17.56	17.95	17.83	17.89	0	10.19	10.02	10.25	10.23	0
			1	39	17.44	17.90	17.63	17.49	0	10.00	10.01	10.27	10.02	0
			1	76	18.14	17.89	17.83	17.62	0	9.92	10.06	10.39	9.93	0
			36	0	17.65	17.65	17.56	17.45	0	10.01	9.82	10.03	10.00	0
			36	21	18.08	17.79	17.54	17.49	0	9.88	9.93	10.18	9.98	0
			36	42	18.41	17.57	17.59	17.27	0	10.31	9.81	10.11	9.77	0
			75	0	17.98	17.58	17.51	17.31	0	9.87	9.81	10.05	9.87	0
		16QAM	1	1	17.33	17.63	17.62	17.65	0	9.89	9.50	9.89	10.31	0
		64QAM	1	1	17.49	17.71	17.59	17.73	0	9.71	9.79	10.12	10.05	0
		256QAM	1	1	16.51	17.26	17.06	17.45	0	9.58	9.38	9.61	9.76	0
	CP-OFDM	QPSK	1	1	17.56	17.54	17.59	17.58	0	9.97	9.55	9.91	9.76	0

Band width	Modulation	Mode	RB Size	RB offset	Max Average Conducted Power (dBm)					MPR [dB]	Back-off Average Conducted Power (dBm)					MPR [dB]
					501 204	509 898	518 598	527 298	535 998		501 204	509 898	518 598	527 298	535 998	
					2 506.02 MHz	2 549.49 MHz	2 592.99 MHz	2 636.49 MHz	2 679.99 MHz		2 506.02 MHz	2 549.49 MHz	2 592.99 MHz	2 636.49 MHz	2 679.99 MHz	
20 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	17.99	18.17	18.15	18.14	18.14	0	10.06	10.33	10.33	10.39	10.44	0
			1	26	18.28	18.14	17.98	17.76	17.84	0	10.08	10.24	10.28	10.11	10.06	0
			1	49	18.81	18.13	18.15	17.88	17.52	0	10.22	10.38	10.43	10.16	9.89	0
			25	0	17.82	18.07	18.00	17.94	17.90	0	10.15	10.26	10.32	10.23	10.26	0
			25	13	18.10	18.06	17.89	17.77	17.75	0	10.39	10.22	10.30	10.10	10.09	0
			25	26	18.27	18.08	18.00	17.81	17.49	0	10.23	10.28	10.38	10.08	9.97	0
			50	0	18.01	18.04	17.83	17.78	17.66	0	9.95	10.28	10.37	10.16	10.15	0
		QPSK	1	1	17.79	18.04	18.02	18.08	18.03	0	9.94	10.24	10.33	10.32	10.28	0
			1	26	18.00	18.02	17.84	17.72	17.70	0	9.84	10.14	10.24	10.04	9.90	0
			1	49	18.51	17.95	18.03	17.78	17.38	0	9.93	10.31	10.41	10.09	9.71	0
			25	0	17.63	17.71	17.78	17.65	17.60	0	10.18	10.07	10.14	10.04	10.09	0
			25	13	17.89	17.90	17.72	17.71	17.56	0	10.35	10.13	10.25	10.02	9.89	0
			25	26	18.10	17.64	17.79	17.44	17.27	0	10.17	10.09	10.20	9.89	9.77	0
			50	0	17.83	17.70	17.72	17.53	17.39	0	9.89	10.07	10.16	9.96	9.94	0
		16QAM	1	1	17.11	17.73	17.80	17.53	17.87	0	10.20	10.21	10.19	10.22	10.02	0
		64QAM	1	1	17.19	17.79	17.60	17.79	17.57	0	9.63	9.89	10.22	10.05	10.35	0
		256QAM	1	1	16.73	17.37	17.16	17.39	17.29	0	9.56	9.78	9.74	10.01	9.60	0
	CP-OFDM	QPSK	1	1	17.18	17.66	17.38	17.53	17.86	0	9.74	9.91	9.89	9.90	9.93	0

Band width	Modulation	Mode	RB Size	RB offset	Max Average Conducted Power (dBm)					MPR [dB]	Back-off Average Conducted Power (dBm)					MPR [dB]
					500 700	509 652	518 598	527 550	536 496		500 700	509 652	518 598	527 550	536 496	
					2 503.50 MHz	2 548.26 MHz	2 592.99 MHz	2 637.75 MHz	2 682.48 MHz		2 503.50 MHz	2 548.26 MHz	2 592.99 MHz	2 637.75 MHz	2 682.48 MHz	
15 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	17.97	18.03	17.91	18.14	18.13	0	9.94	10.24	10.47	10.38	10.40	0
			1	19	18.15	17.85	17.72	17.79	17.71	0	10.18	10.12	10.39	10.11	10.03	0
			1	36	18.63	18.03	17.90	17.86	17.61	0	9.95	10.31	10.57	10.15	9.84	0
			18	0	17.81	17.89	17.74	17.95	17.82	0	10.02	10.18	10.45	10.21	10.25	0
			18	10	18.10	17.82	17.67	17.77	17.67	0	10.19	10.15	10.43	10.12	10.02	0
			18	20	18.19	17.89	17.74	17.78	17.51	0	10.01	10.20	10.50	10.09	9.96	0
			36	0	17.91	17.81	17.61	17.78	17.61	0	9.70	10.19	10.50	10.12	10.08	0
		QPSK	1	1	17.75	17.84	17.76	18.01	17.93	0	9.84	10.18	10.34	10.33	10.21	0
			1	19	17.91	17.67	17.56	17.63	17.49	0	10.08	10.09	10.23	10.06	9.85	0
			1	36	18.43	17.87	17.79	17.73	17.40	0	9.70	10.28	10.45	10.11	9.63	0
			18	0	17.63	17.70	17.49	17.57	17.54	0	10.04	9.98	10.16	10.06	10.05	0
			18	10	17.85	17.70	17.49	17.61	17.49	0	10.12	10.08	10.25	10.00	9.84	0
			18	20	18.03	17.69	17.50	17.39	17.22	0	9.95	10.02	10.19	9.91	9.73	0
			36	0	17.77	17.64	17.47	17.45	17.37	0	9.67	10.01	10.17	9.95	9.87	0
		16QAM	1	1	17.58	17.86	17.68	17.68	17.47	0	9.82	10.13	10.18	10.28	10.37	0
		64QAM	1	1	17.30	17.48	17.47	17.97	17.53	0	9.68	9.83	10.20	10.14	10.00	0
		256QAM	1	1	16.75	17.25	17.01	17.52	17.03	0	9.23	9.69	9.74	10.07	9.86	0
	CP-OFDM	QPSK	1	1	17.30	17.37	17.25	17.66	17.76	0	9.63	9.85	9.87	9.99	9.93	0

Band width	Modulation	Mode	RB Size	RB offset	Max Average Conducted Power (dBm)					MPR [dB]	Back-off Average Conducted Power (dBm)					MPR [dB]
					500 202	509 400	518 598	527 802	537 000		500 202	509 400	518 598	527 802	537 000	
					2 501.01 MHz	2 547.00 MHz	2 592.99 MHz	2 639.01 MHz	2 685.00 MHz		2 501.01 MHz	2 547.00 MHz	2 592.99 MHz	2 639.01 MHz	2 685.00 MHz	
10 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	18.26	18.34	18.28	18.04	18.22	0	10.07	10.40	10.59	10.40	10.31	0
			1	12	18.20	18.09	18.02	17.66	17.78	0	10.12	10.19	10.55	10.13	9.90	0
			1	22	18.64	18.33	18.27	17.83	17.83	0	10.26	10.48	10.69	10.18	9.97	0
			12	0	17.96	18.13	18.09	17.80	17.93	0	10.07	10.29	10.61	10.22	10.19	0
			12	6	18.18	18.04	18.00	17.65	17.81	0	10.14	10.21	10.54	10.13	10.01	0
			12	12	18.20	18.11	18.07	17.68	17.69	0	9.88	10.32	10.63	10.07	9.98	0
			24	0	18.04	18.06	18.03	17.69	17.76	0	9.69	10.26	10.63	10.20	10.01	0
		QPSK	1	1	17.93	18.23	18.14	17.95	18.05	0	10.08	10.33	10.55	10.36	10.20	0
			1	12	17.93	18.01	17.89	17.59	17.60	0	10.11	10.12	10.44	10.08	9.77	0
			1	22	18.38	18.27	18.16	17.78	17.66	0	10.14	10.39	10.64	10.15	9.85	0
			12	0	17.73	17.94	17.89	17.61	17.64	0	10.06	10.09	10.34	10.05	9.97	0
			12	6	17.92	17.93	17.88	17.54	17.64	0	10.07	10.16	10.46	10.07	9.80	0
			12	12	18.01	17.93	17.87	17.49	17.39	0	9.82	10.13	10.39	9.93	9.77	0
			24	0	17.86	17.90	17.77	17.52	17.50	0	9.67	10.09	10.35	10.01	9.87	0
		16QAM	1	1	17.68	18.04	17.91	17.48	17.86	0	9.69	10.19	10.46	10.23	10.06	0
		64QAM	1	1	17.56	17.84	17.54	17.56	17.73	0	9.53	10.06	10.31	10.26	10.04	0
		256QAM	1	1	16.53	17.46	17.37	17.10	17.12	0	9.80	10.01	9.92	9.88	9.81	0
	CP-OFDM	QPSK	1	1	17.50	17.67	17.40	17.36	17.91	0	9.82	9.95	10.11	9.90	9.81	0

10.4.4 NR n41 SRS 2 (SA)

Band width	Modulation	Max Average Conducted Power (dBm)					MPR [dB]		
100 MHz	CW	518 598					0		
		2 592.99 MHz							
		9.42							
90 MHz	CW	508 200		528 996					
		2 541.00 MHz		2 644.98 MHz					
		9.55		9.23					
80 MHz	CW	507 204		529 998					
		2 536.02 MHz		2 649.99 MHz					
		9.43		9.10					
70 MHz	CW	506 202		531 000					
		2 531.01 MHz		2 655.00 MHz					
		9.32		9.03					
60 MHz	CW	505 200		518 598		531 996			
		2 526.00 MHz		2 592.99 MHz		2 659.98 MHz			
		9.33		9.73		8.91			
50 MHz	CW	504 204		518 598		532 998			
		2 521.02 MHz		2 592.99 MHz		2 664.99 MHz			
		8.90		9.45		9.18			
40 MHz	CW	503 202		513 468		523 734		534 000	
		2 516.01 MHz		2 567.34 MHz		2 618.67 MHz		2 670.00 MHz	
		8.88		9.07		9.25		9.11	
30 MHz	CW	502 200		510 402		518 598		526 800	534 996
		2 511.00 MHz		2 552.01 MHz		2 592.99 MHz		2 634.00 MHz	2 674.98 MHz
		9.29		8.84		9.43		9.03	9.01
20 MHz	CW	501 204		509 898		518 598		527 298	535 998
		2 506.02 MHz		2 549.49 MHz		2 592.99 MHz		2 636.49 MHz	2 679.99 MHz
		9.07		8.96		9.56		9.03	9.07
15 MHz	CW	500 700		509 652		518 598		527 550	536 496
		2 503.50 MHz		2 548.26 MHz		2 592.99 MHz		2 637.75 MHz	2 682.48 MHz
		8.79		8.93		9.58		9.12	8.94
10 MHz	CW	500 202		509 400		518 598		527 802	537 000
		2 501.01 MHz		2 547.00 MHz		2 592.99 MHz		2 639.01 MHz	2 685.00 MHz
		9.13		8.98		9.62		9.04	8.86

10.4.5 NR n41 SRS 3 (SA)

Band width	Modulation	Max Average Conducted Power (dBm)					MPR [dB]		
100 MHz	CW	518 598					0		
		2 592.99 MHz							
		8.63							
90 MHz	CW	508 200		528 996					
		2 541.00 MHz		2 644.98 MHz					
		8.81		8.69					
80 MHz	CW	507 204		529 998					
		2 536.02 MHz		2 649.99 MHz					
		8.64		8.73					
70 MHz	CW	506 202		531 000					
		2 531.01 MHz		2 655.00 MHz					
		8.53		8.76					
60 MHz	CW	505 200		518 598		531 996			
		2 526.00 MHz		2 592.99 MHz		2 659.98 MHz			
		8.38		8.71		8.58			
50 MHz	CW	504 204		518 598		532 998			
		2 521.02 MHz		2 592.99 MHz		2 664.99 MHz			
		8.30		8.55		8.42			
40 MHz	CW	503 202		513 468		523 734		534 000	
		2 516.01 MHz		2 567.34 MHz		2 618.67 MHz		2 670.00 MHz	
		8.29		8.53		8.59		8.31	
30 MHz	CW	502 200		510 402		518 598		526 800	534 996
		2 511.00 MHz		2 552.01 MHz		2 592.99 MHz		2 634.00 MHz	2 674.98 MHz
		8.12		8.12		8.56		8.62	8.22
20 MHz	CW	501 204		509 898		518 598		527 298	535 998
		2 506.02 MHz		2 549.49 MHz		2 592.99 MHz		2 636.49 MHz	2 679.99 MHz
		8.23		7.92		8.57		8.68	7.90
15 MHz	CW	500 700		509 652		518 598		527 550	536 496
		2 503.50 MHz		2 548.26 MHz		2 592.99 MHz		2 637.75 MHz	2 682.48 MHz
		8.03		7.75		8.72		8.61	8.27
10 MHz	CW	500 202		509 400		518 598		527 802	537 000
		2 501.01 MHz		2 547.00 MHz		2 592.99 MHz		2 639.01 MHz	2 685.00 MHz
		8.00		7.89		8.76		8.51	7.72

10.4.6 NR n41 SRS 4 (SA)

Band width	Modulation	Max Average Conducted Power (dBm)					MPR [dB]		
100 MHz	CW	518 598					0		
		2 592.99 MHz							
		11.57							
90 MHz	CW	508 200		528 996					
		2 541.00 MHz		2 644.98 MHz					
		11.40		11.51					
80 MHz	CW	507 204		529 998					
		2 536.02 MHz		2 649.99 MHz					
		11.34		11.49					
70 MHz	CW	506 202		531 000					
		2 531.01 MHz		2 655.00 MHz					
		11.34		11.46					
60 MHz	CW	505 200		518 598		531 996			
		2 526.00 MHz		2 592.99 MHz		2 659.98 MHz			
		11.44		11.13		11.39			
50 MHz	CW	504 204		518 598		532 998			
		2 521.02 MHz		2 592.99 MHz		2 664.99 MHz			
		11.55		11.33		11.45			
40 MHz	CW	503 202		513 468		523 734		534 000	
		2 516.01 MHz		2 567.34 MHz		2 618.67 MHz		2 670.00 MHz	
		11.56		10.95		10.83		11.14	
30 MHz	CW	502 200		510 402		518 598		526 800	534 996
		2 511.00 MHz		2 552.01 MHz		2 592.99 MHz		2 634.00 MHz	2 674.98 MHz
		11.38		11.48		11.19		11.67	10.89
20 MHz	CW	501 204		509 898		518 598		527 298	535 998
		2 506.02 MHz		2 549.49 MHz		2 592.99 MHz		2 636.49 MHz	2 679.99 MHz
		11.36		11.61		11.41		11.69	10.76
15 MHz	CW	500 700		509 652		518 598		527 550	536 496
		2 503.50 MHz		2 548.26 MHz		2 592.99 MHz		2 637.75 MHz	2 682.48 MHz
		11.25		11.62		11.45		11.73	10.63
10 MHz	CW	500 202		509 400		518 598		527 802	537 000
		2 501.01 MHz		2 547.00 MHz		2 592.99 MHz		2 639.01 MHz	2 685.00 MHz
		11.03		11.51		11.45		11.72	10.53

10.4.7 NR n66 (SA)

Band width	Modulation	Mode	RB Size	RB offset	Max Average Conducted Power (dBm)	MPR [dB]	Back-off Average Conducted Power (dBm)	MPR [dB]
					349 000		349 000	
					1 745.0 MHz		1 745.0 MHz	
40 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	23.81	0	12.87	0
			1	108	24.08	0	13.05	0
			1	214	23.97	0	12.99	0
			108	0	23.89	0.5	13.08	0
			108	54	24.08	0	13.07	0
			108	108	24.00	0.5	13.15	0
			216	0	23.85	0.5	13.04	0
		QPSK	1	1	23.91	0	12.91	0
			1	108	24.14	0	13.15	0
			1	214	23.60	0	13.01	0
			108	0	23.31	1	13.09	0
			108	54	24.10	0	13.07	0
			108	108	22.97	1	13.17	0
			216	0	23.16	1	13.06	0
		16QAM	1	1	23.14	1	12.91	0
		64QAM	1	1	21.86	2.5	13.01	0
		256QAM	1	1	19.51	4.5	12.44	0
	CP-OFDM	QPSK	1	1	22.85	1.5	12.98	0

Band width	Modulation	Mode	RB Size	RB offset	Max Average Conducted Power (dBm)	MPR [dB]	Back-off Average Conducted Power (dBm)	MPR [dB]
					349 000		349 000	
					1 745.0 MHz		1 745.0 MHz	
30 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	24.05	0	12.97	0
			1	80	24.15	0	13.08	0
			1	158	24.10	0	13.00	0
			80	0	23.89	0.5	13.04	0
			80	40	24.08	0	13.02	0
			80	80	23.98	0.5	13.22	0
			160	0	23.90	0.5	13.07	0
		QPSK	1	1	24.06	0	13.06	0
			1	80	24.16	0	13.08	0
			1	158	23.67	0	13.10	0
			80	0	23.27	1	13.07	0
			80	40	24.06	0	13.06	0
			80	80	23.01	1	13.21	0
			160	0	23.15	1	13.07	0
		16QAM	1	1	23.32	1	13.04	0
		64QAM	1	1	22.03	2.5	13.16	0
		256QAM	1	1	19.64	4.5	12.55	0
	CP-OFDM	QPSK	1	1	23.13	1.5	13.13	0

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Band width	Modulation	Mode	RB Size	RB offset	Max Average Conducted Power (dBm)	MPR [dB]	Back-off Average Conducted Power (dBm)	MPR [dB]
					349 000		349 000	
					1 745.0 MHz		1 745.0 MHz	
25 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	23.99	0	13.06	0
			1	67	24.07	0	13.09	0
			1	131	24.15	0	13.22	0
			64	0	23.87	0.5	13.08	0
			64	35	24.04	0	13.05	0
			64	69	23.97	0.5	13.17	0
			128	0	23.87	0.5	13.04	0
		QPSK	1	1	24.10	0	13.08	0
			1	67	23.98	0	13.09	0
			1	131	23.78	0	13.22	0
			64	0	23.25	1	13.02	0
			64	35	24.02	0	13.01	0
			64	69	23.01	1	13.21	0
			128	0	23.15	1	13.06	0
		16QAM	1	1	23.29	1	13.02	0
		64QAM	1	1	22.01	2.5	13.19	0
		256QAM	1	1	19.57	4.5	12.51	0
	CP-OFDM	QPSK	1	1	23.13	1.5	13.10	0

Band width	Modulation	Mode	RB Size	RB offset	Max Average Conducted Power (dBm)			MPR [dB]	Back-off Average Conducted Power (dBm)			MPR [dB]
					344 000	349 000	354 000		344 000	349 000	354 000	
					1 720.0 MHz	1 745.0 MHz	1 770.0 MHz		1 720.0 MHz	1 745.0 MHz	1 770.0 MHz	
20 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	23.74	23.97	23.78	0	12.76	13.00	12.96	0
			1	53	23.75	23.91	23.82	0	12.81	12.98	12.83	0
			1	104	23.93	23.96	23.84	0	13.01	13.00	12.90	0
			50	0	23.62	23.85	23.63	0.5	12.86	13.00	12.91	0
			50	28	23.84	23.99	23.92	0	12.88	13.03	12.95	0
			50	56	23.67	23.81	23.68	0.5	12.91	13.00	12.89	0
			100	0	23.68	23.82	23.70	0.5	12.85	13.07	12.95	0
		QPSK	1	1	23.77	23.74	23.91	0	12.71	13.06	12.98	0
			1	53	23.85	23.74	23.88	0	12.80	12.99	12.85	0
			1	104	24.00	23.85	23.93	0	12.95	13.07	12.89	0
			50	0	23.31	23.47	23.32	1	12.86	13.03	12.87	0
			50	28	23.83	23.88	23.93	0	12.92	13.00	12.89	0
			50	56	23.21	23.47	23.40	1	12.92	13.06	12.92	0
			100	0	23.24	23.54	23.46	1	12.87	13.02	12.92	0
		16QAM	1	1	23.32	23.52	23.43	1	12.76	13.00	12.92	0
		64QAM	1	1	21.99	22.22	22.11	2.5	12.88	13.14	13.08	0
		256QAM	1	1	19.26	19.51	19.42	4.5	12.30	12.53	12.40	0
	CP-OFDM	QPSK	1	1	22.91	23.15	22.98	1.5	12.75	13.02	13.00	0

Band width	Modulation	Mode	RB Size	RB offset	Max Average Conducted Power (dBm)			MPR [dB]	Back-off Average Conducted Power (dBm)			MPR [dB]
					343 500	349 000	354 500		343 500	349 000	354 500	
					1 717.5 MHz	1 745.0 MHz	1 772.5 MHz		1 717.5 MHz	1 745.0 MHz	1 772.5 MHz	
15 MHz	DFT-s-OFDM	π/2 BPSK	1	1	23.80	23.90	23.81	0	12.82	12.97	12.92	0
			1	40	23.77	23.94	23.86	0	12.81	12.98	12.85	0
			1	77	23.97	23.97	23.87	0	13.01	13.02	12.95	0
			36	0	23.59	23.80	23.60	0.5	12.87	13.02	12.95	0
			36	22	23.83	24.01	23.94	0	12.80	12.96	12.89	0
			36	43	23.68	23.81	23.66	0.5	12.95	13.01	12.92	0
			75	0	23.64	23.80	23.71	0.5	12.79	13.03	12.88	0
		QPSK	1	1	23.98	23.97	24.05	0	12.76	13.00	12.93	0
			1	40	24.05	23.92	24.03	0	12.78	13.00	12.86	0
			1	77	24.13	23.99	24.06	0	12.98	13.07	12.91	0
			36	0	23.36	23.49	23.31	1	12.87	13.01	12.83	0
			36	22	23.96	23.99	24.01	0	12.89	12.97	12.87	0
			36	43	23.26	23.41	23.31	1	12.87	13.02	12.91	0
			75	0	23.30	23.50	23.43	1	12.90	13.03	12.96	0
		16QAM	1	1	23.38	23.55	23.49	1	12.84	13.01	12.90	0
		64QAM	1	1	21.92	22.16	22.02	2.5	12.87	13.12	13.04	0
		256QAM	1	1	19.33	19.58	19.48	4.5	12.22	12.47	12.33	0
	CP-OFDM	QPSK	1	1	22.92	23.18	23.00	1.5	12.81	13.09	13.06	0

Band width	Modulation	Mode	RB Size	RB offset	Max Average Conducted Power (dBm)			MPR [dB]	Back-off Average Conducted Power (dBm)			MPR [dB]
					343 000	349 000	355 000		343 000	349 000	355 000	
					1 715.0 MHz	1 745.0 MHz	1 775.0 MHz		1 715.0 MHz	1 745.0 MHz	1 775.0 MHz	
10 MHz	DFT-s-OFDM	π/2 BPSK	1	1	23.71	23.85	23.74	0	12.75	12.87	12.80	0
			1	26	23.79	23.85	23.74	0	12.81	12.95	12.77	0
			1	50	23.84	23.88	23.75	0	12.93	12.91	12.79	0
			25	0	23.58	23.70	23.50	0.5	12.81	12.92	12.83	0
			25	14	23.75	23.90	23.84	0	12.87	12.94	12.87	0
			25	27	23.52	23.69	23.58	0.5	12.89	12.97	12.86	0
			50	0	23.55	23.66	23.52	0.5	12.74	12.94	12.83	0
		QPSK	1	1	23.96	23.91	23.98	0	12.64	12.88	12.79	0
			1	26	24.01	23.88	23.99	0	12.82	12.99	12.88	0
			1	50	23.98	23.85	23.92	0	12.87	12.96	12.80	0
			25	0	23.37	23.50	23.38	1	12.72	12.90	12.76	0
			25	14	23.84	23.92	23.94	0	12.86	12.94	12.85	0
			25	27	23.21	23.48	23.39	1	12.83	12.95	12.79	0
			50	0	23.23	23.51	23.46	1	12.76	12.91	12.84	0
		16QAM	1	1	23.24	23.44	23.38	1	12.79	12.91	12.84	0
		64QAM	1	1	21.93	22.17	22.09	2.5	12.87	13.00	12.96	0
		256QAM	1	1	19.32	19.45	19.38	4.5	12.29	12.42	12.31	0
	CP-OFDM	QPSK	1	1	22.82	23.06	22.86	1.5	12.74	13.00	12.99	0

Band width	Modulation	Mode	RB Size	RB offset	Max Average Conducted Power (dBm)			MPR [dB]	Back-off Average Conducted Power (dBm)			MPR [dB]
					342 500	349 000	355 500		342 500	349 000	355 500	
					1 712.5 MHz	1 745.0 MHz	1 777.5 MHz		1 712.5 MHz	1 745.0 MHz	1 777.5 MHz	
5 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	23.72	23.86	23.74	0	12.76	12.87	12.81	0
			1	13	23.81	23.89	23.80	0	12.78	12.95	12.78	0
			1	23	23.75	23.80	23.68	0	12.86	12.88	12.76	0
			12	0	23.36	23.61	23.42	0.5	12.77	12.90	12.81	0
			12	7	23.77	23.91	23.85	0	12.78	12.90	12.85	0
			12	13	23.56	23.70	23.58	0.5	12.81	12.91	12.80	0
			25	0	23.57	23.68	23.56	0.5	12.74	12.95	12.85	0
		QPSK	1	1	23.91	23.85	23.92	0	12.70	12.91	12.82	0
			1	13	23.93	23.85	23.96	0	12.72	12.90	12.76	0
			1	23	24.01	23.86	23.91	0	12.82	12.92	12.77	0
			12	0	23.30	23.44	23.27	1	12.82	12.97	12.80	0
			12	7	23.88	23.93	23.98	0	12.94	12.99	12.89	0
			12	13	23.29	23.48	23.41	1	12.73	12.89	12.74	0
			25	0	23.27	23.49	23.41	1	12.76	12.91	12.83	0
		16QAM	1	1	23.22	23.44	23.32	1	12.71	12.92	12.86	0
		64QAM	1	1	21.87	22.08	21.96	2.5	12.83	13.06	12.98	0
		256QAM	1	1	19.14	19.37	19.30	4.5	12.24	12.40	12.29	0
	CP-OFDM	QPSK	1	1	22.66	22.92	22.74	1.5	12.68	12.98	12.96	0

10.4.8 NR n71 (SA)

Band width	Modulation	Mode	RB Size	RB offset	Max Average Conducted Power (dBm)	MPR [dB]	Back-off Average Conducted Power (dBm)	MPR [dB]
					136 100		136 100	
					680.5 MHz		680.5 MHz	
20 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	24.01	0	15.96	0
			1	53	24.03	0	15.99	0
			1	104	23.81	0	15.74	0
			50	0	23.64	0.5	16.09	0
			50	28	24.06	0	16.03	0
			50	56	23.43	0.5	15.90	0
			100	0	23.52	0.5	16.01	0
		QPSK	1	1	24.00	0	16.10	0
			1	53	24.08	0	15.97	0
			1	104	23.87	0	15.80	0
			50	0	23.13	1	16.13	0
			50	28	23.98	0	16.05	0
			50	56	22.92	1	15.88	0
			100	0	23.10	1	16.08	0
		16QAM	1	1	22.98	1	16.09	0
		64QAM	1	1	21.62	2.5	16.20	0
		256QAM	1	1	19.01	4.5	15.42	0
	CP-OFDM	QPSK	1	1	22.71	1.5	16.18	0

Band width	Modulation	Mode	RB Size	RB offset	Max Average Conducted Power (dBm)	MPR [dB]	Back-off Average Conducted Power (dBm)	MPR [dB]
					136 100		136 100	
					680.5 MHz		680.5 MHz	
15 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	24.18	0	16.08	0
			1	40	24.03	0	16.01	0
			1	77	23.96	0	15.92	0
			36	0	23.62	0.5	16.06	0
			36	22	24.11	0	16.07	0
			36	43	23.53	0.5	16.01	0
			75	0	23.57	0.5	16.04	0
		QPSK	1	1	24.20	0	16.16	0
			1	40	24.13	0	16.02	0
			1	77	23.92	0	15.86	0
			36	0	23.12	1	16.14	0
			36	22	24.07	0	16.07	0
			36	43	22.97	1	15.98	0
			75	0	23.08	1	16.08	0
		16QAM	1	1	23.11	1	16.15	0
		64QAM	1	1	21.85	2.5	16.30	0
		256QAM	1	1	19.17	4.5	15.61	0
	CP-OFDM	QPSK	1	1	22.79	1.5	16.24	0

Band width	Modulation	Mode	RB Size	RB offset	Max Average Conducted Power (dBm)			MPR [dB]	Back-off Average Conducted Power (dBm)			MPR [dB]
					133 600	136 100	138 600		133 600	136 100	138 600	
					668.0 MHz	680.5 MHz	693.0 MHz		668.0 MHz	680.5 MHz	693.0 MHz	
10 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	24.13	23.95	23.85	0	15.93	15.75	15.66	0
			1	26	24.04	24.08	23.80	0	15.86	15.68	15.55	0
			1	50	24.06	23.90	23.63	0	15.88	15.63	15.46	0
			25	0	23.60	23.48	23.27	0.5	15.91	15.78	15.63	0
			25	14	24.03	24.00	23.74	0	15.90	15.74	15.56	0
			25	27	23.57	23.42	23.22	0.5	15.87	15.70	15.50	0
			50	0	23.52	23.39	23.24	0.5	15.83	15.74	15.59	0
		QPSK	1	1	24.04	23.99	23.85	0	15.95	15.78	15.69	0
			1	26	24.14	24.09	23.78	0	15.94	15.84	15.59	0
			1	50	24.12	23.92	23.26	0	15.92	15.70	15.52	0
			25	0	23.12	22.99	22.78	1	15.91	15.78	15.62	0
			25	14	24.04	24.05	23.72	0	15.90	15.73	15.55	0
			25	27	23.06	22.90	22.71	1	15.80	15.69	15.49	0
			50	0	23.03	22.95	22.73	1	15.90	15.74	15.59	0
		16QAM	1	1	23.00	22.95	22.84	1	15.89	15.79	15.67	0
		64QAM	1	1	21.74	21.65	21.47	2.5	16.09	15.93	15.80	0
		256QAM	1	1	19.08	18.89	18.78	4.5	15.39	15.17	15.11	0
	CP-OFDM	QPSK	1	1	22.68	22.50	22.39	1.5	16.03	15.85	15.73	0

Band width	Modulation	Mode	RB Size	RB offset	Max Average Conducted Power (dBm)			MPR [dB]	Back-off Average Conducted Power (dBm)			MPR [dB]
					133 100	136 100	139 100		165 300	167 300	169 300	
					665.5 MHz	680.5 MHz	695.5 MHz		826.5 MHz	836.5 MHz	846.5 MHz	
5 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	24.11	23.95	23.77	0	16.01	15.78	15.61	0
			1	13	24.12	24.00	23.80	0	16.03	15.86	15.65	0
			1	23	24.07	23.94	23.62	0	16.00	15.80	15.53	0
			12	0	23.63	23.45	23.29	0.5	16.05	15.81	15.66	0
			12	7	24.11	23.99	23.76	0	15.97	15.81	15.60	0
			12	13	23.60	23.43	23.24	0.5	15.94	15.75	15.59	0
			25	0	23.64	23.48	23.32	0.5	15.97	15.85	15.67	0
		QPSK	1	1	24.06	24.05	23.81	0	16.09	15.84	15.65	0
			1	13	24.14	24.04	23.78	0	16.05	15.87	15.63	0
			1	23	24.06	23.96	23.37	0	16.00	15.80	15.55	0
			12	0	23.17	23.06	22.81	1	16.06	15.84	15.63	0
			12	7	24.12	24.01	23.80	0	16.05	15.83	15.60	0
			12	13	23.16	22.97	22.70	1	16.05	15.77	15.56	0
			25	0	23.15	22.98	22.79	1	15.97	15.85	15.58	0
		16QAM	1	1	23.12	23.00	22.83	1	15.99	15.82	15.61	0
		64QAM	1	1	21.85	21.71	21.43	2.5	16.21	15.95	15.79	0
		256QAM	1	1	19.09	19.01	18.83	4.5	15.47	15.31	15.12	0
	CP-OFDM	QPSK	1	1	22.70	22.51	22.33	1.5	16.08	15.97	15.67	0

10.4.9 NR n77 DoD (SA) (Power Class 2)

Band width	Modulation	Mode	RB Size	RB offset	Max Average Conducted Power (dBm)	MPR [dB]	Back-off Average Conducted Power (dBm)	MPR [dB]
					633 334		633 334	
					3 500.01 MHz		3 500.01 MHz	
100 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	19.06	0	9.50	0
			1	137	19.48	0	9.53	0
			1	271	19.78	0	9.97	0
			135	0	19.26	0	9.61	0
			135	69	19.43	0	9.65	0
			135	138	19.62	0	9.85	0
			270	0	19.40	0	9.66	0
		QPSK	1	1	19.03	0	9.62	0
			1	137	19.43	0	9.60	0
			1	271	19.77	0	10.02	0
			135	0	19.06	0	9.61	0
			135	69	19.36	0	9.66	0
			135	138	19.45	0	9.84	0
			270	0	19.26	0	9.83	0
		16QAM	1	1	18.85	0	9.61	0
		64QAM	1	1	18.60	0	9.62	0
		256QAM	1	1	18.50	0	9.57	0
	CP-OFDM	QPSK	1	1	18.65	0	9.34	0

Band width	Modulation	Mode	RB Size	RB offset	Max Average Conducted Power (dBm)	MPR [dB]	Back-off Average Conducted Power (dBm)	MPR [dB]
					633 334		633 334	
					3 500.01 MHz		3 500.01 MHz	
90 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	19.16	0	9.85	0
			1	123	19.57	0	9.75	0
			1	243	19.82	0	10.17	0
			120	0	19.22	0	9.74	0
			120	63	19.37	0	9.73	0
			120	125	19.57	0	9.90	0
			243	0	19.33	0	9.79	0
		QPSK	1	1	19.07	0	9.73	0
			1	123	19.37	0	9.63	0
			1	243	19.74	0	10.07	0
			120	0	19.01	0	9.69	0
			120	63	19.20	0	9.61	0
			120	125	19.33	0	9.85	0
			243	0	19.14	0	9.74	0
		16QAM	1	1	19.06	0	9.56	0
		64QAM	1	1	18.75	0	9.46	0
		256QAM	1	1	18.31	0	9.62	0
	CP-OFDM	QPSK	1	1	18.76	0	9.42	0

Band width	Modulation	Mode	RB Size	RB offset	Max Average Conducted Power (dBm)	MPR [dB]	Back-off Average Conducted Power (dBm)	MPR [dB]
					633 334		633 334	
					3 500.01 MHz		3 500.01 MHz	
80 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	19.21	0	9.71	0
			1	109	19.48	0	9.65	0
			1	215	19.81	0	10.01	0
			108	0	19.35	0	9.69	0
			108	55	19.46	0	9.68	0
			108	109	19.64	0	9.84	0
			216	0	19.45	0	9.76	0
		QPSK	1	1	19.20	0	9.67	0
			1	109	19.47	0	9.61	0
			1	215	19.80	0	9.96	0
			108	0	19.16	0	9.51	0
			108	55	19.38	0	9.59	0
			108	109	19.47	0	9.66	0
			216	0	19.30	0	9.71	0
		16QAM	1	1	19.29	0	9.69	0
		64QAM	1	1	18.75	0	9.71	0
		256QAM	1	1	18.94	0	9.43	0
	CP-OFDM	QPSK	1	1	18.89	0	9.36	0

Band width	Modulation	Mode	RB Size	RB offset	Max Average Conducted Power (dBm)	MPR [dB]	Back-off Average Conducted Power (dBm)	MPR [dB]
					633 334		633 334	
					3 500.01 MHz		3 500.01 MHz	
70 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	19.21	0	9.77	0
			1	95	19.51	0	9.64	0
			1	187	19.81	0	10.03	0
			90	0	19.32	0	9.66	0
			90	50	19.41	0	9.63	0
			90	99	19.58	0	9.80	0
			180	0	19.40	0	9.69	0
		QPSK	1	1	19.17	0	9.75	0
			1	95	19.33	0	9.63	0
			1	187	19.68	0	10.02	0
			90	0	19.11	0	9.51	0
			90	50	19.33	0	9.58	0
			90	99	19.40	0	9.64	0
			180	0	19.23	0	9.66	0
		16QAM	1	1	18.80	0	9.61	0
		64QAM	1	1	18.88	0	9.85	0
		256QAM	1	1	18.74	0	9.53	0
	CP-OFDM	QPSK	1	1	18.91	0	9.57	0

Band width	Modulation	Mode	RB Size	RB offset	Max Average Conducted Power (dBm)	MPR [dB]	Back-off Average Conducted Power (dBm)	MPR [dB]
					633 334		633 334	
					3 500.01 MHz		3 500.01 MHz	
60 MHz	DFT-s-OFDM	π/2 BPSK	1	1	18.94	0	9.96	0
			1	81	19.37	0	10.04	0
			1	160	19.40	0	10.05	0
			81	0	19.10	0	9.92	0
			81	41	19.25	0	10.00	0
			81	81	19.34	0	10.01	0
			162	0	19.20	0	9.89	0
		QPSK	1	1	18.90	0	9.70	0
			1	81	19.32	0	9.85	0
			1	160	19.38	0	9.94	0
			81	0	18.95	0	9.75	0
			81	41	19.20	0	9.85	0
			81	81	19.19	0	9.81	0
			162	0	19.06	0	9.81	0
		16QAM	1	1	18.75	0	9.48	0
		64QAM	1	1	18.82	0	9.69	0
		256QAM	1	1	18.39	0	9.56	0
	CP-OFDM	QPSK	1	1	18.71	0	9.50	0

Band width	Modulation	Mode	RB Size	RB offset	Max Average Conducted Power (dBm)		MPR [dB]	Back-off Average Conducted Power (dBm)		MPR [dB]
					631 668	635 000		631 668	635 000	
					3 475.02 MHz	3 525.00 MHz		3 475.02 MHz	3 525.00 MHz	
50 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	19.05	19.11	0	9.68	9.56	0
			1	67	19.38	19.44	0	9.83	9.70	0
			1	131	19.38	19.43	0	9.83	9.84	0
			64	0	19.17	19.23	0	9.76	9.60	0
			64	35	19.30	19.36	0	9.74	9.67	0
			64	69	19.34	19.39	0	9.77	9.73	0
			128	0	19.23	19.30	0	9.71	9.61	0
		QPSK	1	1	19.07	19.09	0	9.59	9.45	0
			1	67	19.38	19.41	0	9.61	9.59	0
			1	131	19.41	19.43	0	9.66	9.70	0
			64	0	19.02	19.09	0	9.54	9.39	0
			64	35	19.25	19.31	0	9.62	9.56	0
			64	69	19.19	19.26	0	9.59	9.54	0
			128	0	19.10	19.16	0	9.62	9.53	0
		16QAM	1	1	18.86	19.23	0	9.69	9.53	0
		64QAM	1	1	18.49	18.77	0	9.65	9.50	0
		256QAM	1	1	18.74	18.84	0	9.37	9.00	0
	CP-OFDM	QPSK	1	1	18.83	18.85	0	9.32	9.26	0

Band width	Modulation	Mode	RB Size	RB offset	Max Average Conducted Power (dBm)		MPR [dB]	Back-off Average Conducted Power (dBm)		MPR [dB]
					631 334	635 332		631 334	635 332	
					3 470.01 MHz	3 529.98 MHz		3 470.01 MHz	3 529.98 MHz	
40 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	19.43	19.36	0	9.93	9.77	0
			1	53	19.62	19.66	0	9.97	9.80	0
			1	104	19.55	19.71	0	9.98	9.95	0
			50	0	19.36	19.47	0	9.95	9.81	0
			50	28	19.52	19.61	0	9.83	9.80	0
			50	56	19.42	19.63	0	10.01	9.93	0
			100	0	19.35	19.58	0	9.91	9.81	0
		QPSK	1	1	19.35	19.31	0	9.85	9.71	0
			1	53	19.53	19.64	0	9.87	9.79	0
			1	104	19.50	19.69	0	9.93	9.92	0
			50	0	19.34	19.36	0	9.90	9.78	0
			50	28	19.42	19.58	0	9.76	9.68	0
			50	56	19.40	19.48	0	9.93	9.83	0
			100	0	19.34	19.42	0	9.83	9.78	0
		16QAM	1	1	19.31	19.46	0	9.85	9.77	0
		64QAM	1	1	19.16	19.01	0	9.71	9.84	0
		256QAM	1	1	18.86	19.09	0	9.67	9.87	0
	CP-OFDM	QPSK	1	1	19.04	18.99	0	9.61	9.54	0

Band width	Modulation	Mode	RB Size	RB offset	Max Average Conducted Power (dBm)			MPR [dB]	Back-off Average Conducted Power (dBm)			MPR [dB]
					631 000	633 334	635 666		631 000	633 334	635 666	
					3 465.00 MHz	3 500.01 MHz	3 534.99 MHz		3 465.00 MHz	3 500.01 MHz	3 534.99 MHz	
30 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	19.59	19.50	19.53	0	10.04	9.97	9.89	0
			1	39	19.64	19.65	19.67	0	9.91	9.92	9.82	0
			1	76	19.67	19.75	19.76	0	10.11	9.98	10.01	0
			36	0	19.42	19.35	19.39	0	10.00	9.91	9.85	0
			36	21	19.52	19.51	19.54	0	9.88	9.77	9.73	0
			36	42	19.47	19.48	19.53	0	10.04	9.95	9.90	0
			75	0	19.43	19.41	19.43	0	10.00	9.92	9.83	0
		QPSK	1	1	19.58	19.52	19.43	0	9.88	9.82	9.82	0
			1	39	19.65	19.68	19.59	0	9.84	9.81	9.78	0
			1	76	19.69	19.80	19.73	0	9.97	9.99	9.95	0
			36	0	19.39	19.36	19.35	0	9.99	9.86	9.75	0
			36	21	19.46	19.47	19.47	0	9.81	9.72	9.72	0
			36	42	19.47	19.49	19.51	0	10.01	9.93	9.86	0
			75	0	19.42	19.41	19.43	0	9.92	9.81	9.82	0
		16QAM	1	1	19.23	19.37	19.51	0	9.81	9.73	9.86	0
		64QAM	1	1	19.13	19.13	19.17	0	10.18	10.00	9.91	0
		256QAM	1	1	19.08	18.62	18.79	0	9.90	9.70	9.64	0
	CP-OFDM	QPSK	1	1	19.26	19.29	19.09	0	9.71	9.58	9.67	0

Band width	Modulation	Mode	RB Size	RB offset	Max Average Conducted Power (dBm)			MPR [dB]	Back-off Average Conducted Power (dBm)			MPR [dB]
					630 668	633 334	636 000		630 668	633 334	636 000	
					3 460.02	3 500.01	3 540.00		3 460.02	3 500.01	3 540.00	
					MHz	MHz	MHz		MHz	MHz	MHz	
20 MHz	DFT-s-OFDM	π/2 BPSK	1	1	19.51	19.48	19.54	0	9.97	9.92	9.84	0
			1	26	19.56	19.61	19.69	0	9.93	9.89	9.84	0
			1	49	19.62	19.76	19.75	0	10.01	9.92	9.97	0
			25	0	19.36	19.30	19.40	0	10.08	9.93	9.88	0
			25	13	19.45	19.52	19.57	0	9.92	9.88	9.85	0
			25	26	19.41	19.48	19.54	0	10.09	9.96	9.97	0
			50	0	19.32	19.39	19.44	0	10.04	9.91	9.90	0
		QPSK	1	1	19.43	19.43	19.50	0	9.93	9.85	9.82	0
			1	26	19.53	19.60	19.66	0	9.90	9.78	9.87	0
			1	49	19.54	19.72	19.77	0	10.05	9.91	10.04	0
			25	0	19.27	19.25	19.40	0	10.02	9.85	9.83	0
			25	13	19.33	19.39	19.54	0	9.89	9.73	9.78	0
			25	26	19.35	19.40	19.61	0	10.02	9.86	9.96	0
			50	0	19.24	19.30	19.51	0	10.04	9.87	9.90	0
		16QAM	1	1	19.25	19.43	19.33	0	10.11	9.86	9.90	0
		64QAM	1	1	19.16	19.14	19.01	0	10.09	9.70	9.96	0
		256QAM	1	1	19.07	18.67	18.65	0	9.85	9.58	9.65	0
	CP-OFDM	QPSK	1	1	19.27	19.32	18.92	0	9.65	9.58	9.42	0

Band width	Modulation	Mode	RB Size	RB offset	Max Average Conducted Power (dBm)			MPR [dB]	Back-off Average Conducted Power (dBm)			MPR [dB]
					630500	633334	636166		630500	633334	636166	
					3 457.50	3 500.01	3 542.49		3 457.50	3 500.01	3 542.49	
					MHz	MHz	MHz		MHz	MHz	MHz	
15 MHz	DFT-s-OFDM	π/2 BPSK	1	1	19.73	19.72	19.73	0	10.31	10.15	10.09	0
			1	19	19.70	19.66	19.66	0	10.05	9.87	9.84	0
			1	36	19.87	19.84	19.86	0	10.30	10.20	10.15	0
			18	0	19.50	19.48	19.48	0	10.24	10.12	9.98	0
			18	10	19.58	19.58	19.58	0	10.05	9.91	9.88	0
			18	20	19.58	19.55	19.55	0	10.24	10.09	10.03	0
			36	0	19.46	19.48	19.49	0	10.13	10.02	9.89	0
		QPSK	1	1	19.77	19.60	19.61	0	10.20	10.16	10.06	0
			1	19	19.61	19.55	19.56	0	9.92	9.91	9.81	0
			1	36	19.76	19.75	19.76	0	10.19	10.18	10.14	0
			18	0	19.53	19.49	19.51	0	10.18	10.07	9.93	0
			18	10	19.51	19.51	19.53	0	9.97	9.90	9.77	0
			18	20	19.55	19.54	19.59	0	10.15	10.07	9.97	0
			36	0	19.51	19.48	19.50	0	10.08	9.95	9.87	0
		16QAM	1	1	19.75	19.49	19.56	0	10.22	10.00	10.06	0
		64QAM	1	1	19.54	19.50	19.38	0	10.16	10.15	10.12	0
		256QAM	1	1	19.23	19.05	19.09	0	10.17	9.91	9.94	0
	CP-OFDM	QPSK	1	1	19.41	19.35	19.43	0	10.17	9.75	9.84	0

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Band width	Modulation	Mode	RB Size	RB offset	Max Average Conducted Power (dBm)			MPR [dB]	Back-off Average Conducted Power (dBm)			MPR [dB]
					630 334	633 334	636 322		630 334	633 334	636 322	
					3 455.01	3 500.01	3 544.98		3 455.01	3 500.01	3 544.98	
					MHz	MHz	MHz		MHz	MHz	MHz	
10 MHz	DFT-s-OFDM	π/2 BPSK	1	1	19.37	19.51	19.43	0	10.30	10.19	10.20	0
			1	12	19.13	19.31	19.23	0	9.94	9.85	9.86	0
			1	22	19.35	19.55	19.49	0	10.28	10.23	10.26	0
			12	0	19.05	19.34	19.33	0	10.12	10.13	10.00	0
			12	6	19.07	19.28	19.26	0	9.99	9.95	9.87	0
			12	12	19.01	19.37	19.36	0	10.10	10.13	10.06	0
			24	0	18.98	19.29	19.28	0	10.05	10.05	9.93	0
		QPSK	1	1	19.32	19.43	19.41	0	10.27	10.11	10.10	0
			1	12	19.09	19.26	19.21	0	9.91	9.77	9.79	0
			1	22	19.31	19.51	19.44	0	10.26	10.15	10.21	0
			12	0	19.03	19.20	19.17	0	10.07	10.04	10.01	0
			12	6	19.02	19.25	19.22	0	9.91	9.90	9.85	0
			12	12	19.01	19.22	19.21	0	10.05	10.06	10.00	0
			24	0	18.98	19.18	19.17	0	10.01	9.94	9.93	0
		16QAM	1	1	19.01	19.32	19.29	0	10.11	10.37	10.07	0
		64QAM	1	1	18.85	19.46	19.29	0	10.26	10.20	10.08	0
		256QAM	1	1	18.48	19.10	18.85	0	10.31	10.03	10.03	0
	CP-OFDM	QPSK	1	1	19.07	19.13	19.18	0	10.10	10.02	9.88	0

10.4.10 NR n77 SRS 1 (SA) (Power Class 2)

Band width	Modulation	Mode	RB Size	RB offset	Max Average Conducted Power (dBm)		MPR [dB]	Back-off Average Conducted Power (dBm)		MPR [dB]
					650 000	662 000		650 000	662 000	
					3 750.00 MHz	3 930.00 MHz		3 750.00 MHz	3 930.00 MHz	
100 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	18.99	19.44	0	9.60	9.92	0
			1	137	19.31	19.48	0	9.65	9.50	0
			1	271	19.48	19.23	0	10.02	9.25	0
			135	0	18.96	19.31	0	9.70	9.78	0
			135	69	19.27	19.45	0	9.75	9.55	0
			135	138	19.32	19.16	0	9.93	9.41	0
			270	0	19.11	19.22	0	9.76	9.55	0
		QPSK	1	1	18.91	19.35	0	9.66	9.94	0
			1	137	19.22	19.43	0	9.65	9.58	0
			1	271	19.42	19.18	0	10.01	9.31	0
			135	0	18.90	19.25	0	9.70	9.80	0
			135	69	19.16	19.34	0	9.73	9.55	0
			135	138	19.26	19.13	0	9.91	9.42	0
			270	0	19.05	19.18	0	9.79	9.59	0
		16QAM	1	1	18.84	18.93	0	9.62	9.73	0
		64QAM	1	1	18.63	19.04	0	9.46	9.69	0
		256QAM	1	1	18.40	18.45	0	9.43	9.58	0
	CP-OFDM	QPSK	1	1	18.31	18.97	0	9.40	9.39	0

Band width	Modulation	Mode	RB Size	RB offset	Max Average Conducted Power (dBm)			MPR [dB]	Back-off Average Conducted Power (dBm)			MPR [dB]
					649 668	656 000	662 332		649 668	656 000	662 332	
					3 745.02 MHz	3 840.00 MHz	3 934.98 MHz		3 745.02 MHz	3 840.00 MHz	3 934.98 MHz	
90 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	19.09	19.29	19.22	0	9.67	10.23	9.78	0
			1	123	19.38	19.38	19.29	0	9.79	10.12	9.31	0
			1	243	19.63	19.40	18.98	0	10.30	10.28	9.15	0
			120	0	19.06	19.13	19.08	0	9.67	10.17	9.60	0
			120	63	19.34	19.30	19.23	0	9.77	10.11	9.36	0
			120	125	19.44	19.16	18.92	0	10.04	10.20	9.27	0
			243	0	19.22	19.13	19.00	0	9.83	10.14	9.41	0
		QPSK	1	1	19.07	19.38	19.26	0	9.57	10.12	9.69	0
			1	123	19.38	19.24	19.32	0	9.67	10.02	9.21	0
			1	243	19.67	19.32	19.07	0	10.25	10.19	9.07	0
			120	0	19.04	19.06	19.17	0	9.61	10.20	9.67	0
			120	63	19.31	19.19	19.24	0	9.70	10.01	9.27	0
			120	125	19.45	19.14	19.04	0	9.98	10.25	9.33	0
			243	0	19.20	19.08	19.11	0	9.77	10.20	9.48	0
		16QAM	1	1	18.64	18.97	18.79	0	9.59	10.17	9.91	0
		64QAM	1	1	18.45	18.76	18.87	0	10.04	10.23	9.98	0
		256QAM	1	1	18.22	18.50	18.29	0	9.51	10.02	9.71	0
	CP-OFDM	QPSK	1	1	18.13	18.76	18.84	0	9.34	9.90	9.55	0

Band width	Modulation	Mode	RB Size	RB offset	Max Average Conducted Power (dBm)			MPR [dB]	Back-off Average Conducted Power (dBm)			MPR [dB]
					649 334	656 000	662 666		649 334	656 000	662 666	
					3 740.01 MHz	3 840.00 MHz	3 939.99 MHz		3 740.01 MHz	3 840.00 MHz	3 939.99 MHz	
80 MHz	DFT-s-OFDM	π/2 BPSK	1	1	19.12	19.49	19.36	0	9.72	10.32	9.86	0
			1	109	19.40	19.42	19.38	0	9.78	10.13	9.33	0
			1	215	19.35	19.53	19.16	0	10.16	10.33	9.23	0
			108	0	19.04	19.40	19.21	0	9.70	10.20	9.60	0
			108	55	19.24	19.36	19.39	0	9.79	10.14	9.35	0
			108	109	19.23	19.40	19.07	0	10.07	10.23	9.27	0
			216	0	19.05	19.38	19.13	0	9.88	10.21	9.43	0
		QPSK	1	1	19.10	19.57	19.28	0	9.68	10.26	9.72	0
			1	109	19.41	19.43	19.28	0	9.76	10.06	9.17	0
			1	215	19.34	19.55	19.14	0	10.17	10.31	9.11	0
			108	0	19.08	19.16	19.16	0	9.63	10.13	9.53	0
			108	55	19.18	19.32	19.25	0	9.71	10.04	9.28	0
			108	109	19.21	19.17	19.09	0	9.99	10.13	9.21	0
			216	0	19.09	19.18	19.12	0	9.80	10.27	9.51	0
		16QAM	1	1	19.05	19.33	19.15	0	9.42	10.26	10.07	0
		64QAM	1	1	18.88	19.17	19.24	0	9.95	10.25	9.89	0
		256QAM	1	1	18.57	18.96	18.70	0	9.57	10.32	10.01	0
	CP-OFDM	QPSK	1	1	19.03	19.04	19.19	0	9.55	10.06	9.70	0

Band width	Modulation	Mode	RB Size	RB offset	Max Average Conducted Power (dBm)				MPR [dB]	Back-off Average Conducted Power (dBm)				MPR [dB]
					649 000	653 666	658 334	663 000		649 000	653 666	658 334	663 000	
					3 735.00 MHz	3 804.99 MHz	3 875.01 MHz	3 945.00 MHz		3 735.00 MHz	3 804.99 MHz	3 875.01 MHz	3 945.00 MHz	
70 MHz	DFT-s-OFDM	π/2 BPSK	1	1	19.36	19.37	19.48	19.25	0	9.96	10.16	10.21	9.87	0
			1	95	19.32	19.34	19.43	19.30	0	9.88	9.98	10.01	9.38	0
			1	187	19.47	19.49	19.64	19.06	0	10.20	10.33	10.11	9.41	0
			90	0	19.28	19.33	19.44	19.10	0	9.92	10.08	10.13	9.59	0
			90	50	19.28	19.32	19.37	19.28	0	9.93	10.01	10.00	9.36	0
			90	99	19.31	19.29	19.40	18.98	0	10.15	10.16	10.03	9.33	0
			180	0	19.33	19.30	19.43	19.04	0	10.00	10.09	10.07	9.43	0
		QPSK	1	1	19.35	19.39	19.52	19.24	0	9.94	10.05	10.23	9.72	0
			1	95	19.27	19.32	19.48	19.30	0	9.88	9.86	9.92	9.25	0
			1	187	19.47	19.55	19.66	19.07	0	10.24	10.23	10.06	9.29	0
			90	0	19.07	19.09	19.21	19.12	0	9.86	10.00	10.07	9.49	0
			90	50	19.22	19.25	19.44	19.25	0	9.87	9.94	9.93	9.26	0
			90	99	19.07	19.13	19.20	19.01	0	10.09	10.09	9.97	9.25	0
			180	0	19.14	19.14	19.30	19.09	0	9.94	10.13	10.14	9.49	0
		16QAM	1	1	19.04	19.17	19.25	19.08	0	9.89	10.15	10.25	10.04	0
		64QAM	1	1	19.32	19.41	19.47	19.21	0	10.31	10.10	10.30	10.09	0
		256QAM	1	1	18.83	18.97	19.08	18.60	0	9.79	10.13	10.29	9.89	0
	CP-OFDM	QPSK	1	1	19.02	19.19	19.28	19.10	0	9.73	10.04	10.08	9.56	0

Band width	Modulation	Mode	RB Size	RB offset	Max Average Conducted Power (dBm)				MPR [dB]	Back-off Average Conducted Power (dBm)				MPR [dB]
					648 668	653 556	658 444	663 332		648 668	653 556	658 444	663 332	
					3 730.02 MHz	3 803.34 MHz	3 876.66 MHz	3 949.98 MHz		3 730.02 MHz	3 803.34 MHz	3 876.66 MHz	3 949.98 MHz	
60 MHz	DFT-s-OFDM	π/2 BPSK	1	1	19.13	19.21	19.33	19.19	0	9.68	9.84	9.91	9.48	0
			1	81	19.38	19.11	19.28	19.05	0	9.63	9.64	9.58	9.28	0
			1	160	19.33	19.32	19.46	19.12	0	10.08	10.02	9.71	9.05	0
			81	0	19.05	19.15	19.28	18.91	0	9.63	9.74	9.76	9.38	0
			81	41	19.26	19.10	19.25	18.98	0	9.63	9.71	9.61	9.25	0
			81	81	19.21	19.14	19.28	18.78	0	9.86	9.82	9.61	9.15	0
			162	0	19.09	19.13	19.27	18.82	0	9.74	9.80	9.66	9.23	0
		QPSK	1	1	19.02	19.32	19.34	19.23	0	9.69	9.73	9.85	9.34	0
			1	81	19.30	19.20	19.28	19.08	0	9.62	9.53	9.49	9.14	0
			1	160	19.27	19.41	19.47	19.18	0	10.04	9.89	9.69	8.93	0
			81	0	18.97	18.93	19.05	18.87	0	9.58	9.69	9.67	9.29	0
			81	41	19.13	19.08	19.23	18.92	0	9.58	9.64	9.52	9.14	0
			81	81	19.15	18.92	19.05	18.77	0	9.78	9.80	9.60	9.07	0
			162	0	19.03	18.96	19.10	18.81	0	9.67	9.78	9.72	9.30	0
		16QAM	1	1	18.93	18.86	19.00	18.93	0	9.62	9.86	9.99	9.62	0
		64QAM	1	1	18.76	18.98	19.25	18.80	0	10.01	9.80	10.12	9.77	0
		256QAM	1	1	18.45	18.60	18.80	18.35	0	9.54	9.81	9.91	9.49	0
	CP-OFDM	QPSK	1	1	18.94	18.92	19.00	18.77	0	9.45	9.72	9.70	9.19	0

Band width	Modulation	Mode	RB Size	RB offset	Max Average Conducted Power (dBm)					MPR [dB]	Back-off Average Conducted Power (dBm)					MPR [dB]
					648 334	652 166	656 000	659 834	663 666		648 334	652 166	656 000	659 834	663 666	
					3 725.01 MHz	3 782.49 MHz	3 840.00 MHz	3 897.51 MHz	3 954.99 MHz		3 725.01 MHz	3 782.49 MHz	3 840.00 MHz	3 897.51 MHz	3 954.99 MHz	
50 MHz	DFT-s-OFDM	π/2 BPSK	1	1	19.18	19.32	19.34	19.06	19.39	0	9.06	9.20	9.26	9.05	10.10	0
			1	67	19.42	19.41	19.28	19.23	19.29	0	9.18	9.19	9.27	8.94	9.75	0
			1	131	19.38	19.16	19.37	18.98	18.96	0	9.36	9.24	9.22	8.81	9.45	0
			64	0	19.25	19.32	19.25	19.07	19.22	0	9.28	9.22	9.31	9.00	9.91	0
			64	35	19.37	19.28	19.18	19.12	19.20	0	9.15	9.20	9.30	8.94	9.73	0
			64	69	19.37	19.21	19.27	19.02	18.95	0	9.46	9.22	9.29	8.87	9.57	0
			128	0	19.29	19.22	19.23	19.02	19.06	0	9.34	9.20	9.29	8.93	9.76	0
		QPSK	1	1	19.19	19.25	19.36	19.08	19.34	0	9.01	9.10	9.23	9.00	10.04	0
			1	67	19.41	19.32	19.20	19.18	19.25	0	9.14	9.06	9.25	8.89	9.70	0
			1	131	19.42	19.10	19.32	19.01	18.94	0	9.33	9.13	9.21	8.78	9.40	0
			64	0	18.99	19.09	18.98	18.92	19.16	0	9.01	9.23	9.32	9.02	9.88	0
			64	35	19.31	19.13	19.13	19.04	19.09	0	9.03	9.12	9.20	8.85	9.68	0
			64	69	19.13	18.98	18.94	18.86	18.91	0	9.20	9.24	9.30	8.89	9.52	0
			128	0	19.04	19.01	18.98	18.94	19.02	0	9.09	9.13	9.22	8.89	9.70	0
		16QAM	1	1	18.96	19.13	19.03	18.72	19.32	0	8.96	9.10	9.18	8.65	9.73	0
		64QAM	1	1	18.75	19.06	18.84	18.67	19.09	0	8.96	9.22	9.37	9.11	10.03	0
		256QAM	1	1	18.77	18.78	18.64	18.44	18.88	0	8.81	9.45	9.47	9.45	10.18	0
	CP-OFDM	QPSK	1	1	18.50	19.14	18.72	18.66	18.99	0	8.83	8.89	8.91	8.65	9.89	0

Band width	Modulation	Mode	RB Size	RB offset	Max Average Conducted Power (dBm)						MPR [dB]	Back-off Average Conducted Power (dBm)						MPR [dB]
					648 000	651 200	654 400	657 600	660 800	664 000		648 000	651 200	654 400	657 600	660 800	664 000	
					3 720.00 MHz	3 768.00 MHz	3 816.00 MHz	3 864.00 MHz	3 912.00 MHz	3 960.00 MHz		3 720.00 MHz	3 768.00 MHz	3 816.00 MHz	3 864.00 MHz	3 912.00 MHz	3 960.00 MHz	
40 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	19.30	19.29	19.18	19.24	19.05	19.41	0	9.28	9.21	9.32	9.33	9.00	10.21	0
			1	53	19.55	19.35	19.32	19.35	19.19	19.33	0	9.15	8.95	9.07	9.10	8.84	9.88	0
			1	104	19.49	19.15	19.18	19.14	18.96	18.98	0	8.97	8.70	8.84	8.81	8.83	9.61	0
			50	0	19.39	19.26	19.24	19.29	19.07	19.21	0	9.16	9.12	9.18	9.20	8.92	10.11	0
			50	28	19.47	19.24	19.25	19.28	19.08	19.23	0	9.07	8.97	9.05	9.06	8.86	9.91	0
			50	56	19.49	19.16	19.21	19.21	19.01	18.96	0	8.99	8.84	8.90	8.94	8.88	9.77	0
			100	0	19.43	19.21	19.21	19.25	19.04	19.08	0	9.06	8.96	9.05	9.05	8.92	9.95	0
		QPSK	1	1	19.25	19.30	19.17	19.24	19.05	19.41	0	9.24	9.23	9.33	9.40	8.96	10.22	0
			1	53	19.49	19.34	19.31	19.33	19.17	19.32	0	9.04	9.03	9.06	9.14	8.78	9.88	0
			1	104	19.45	19.16	19.18	19.14	18.95	19.01	0	8.91	8.82	8.86	8.89	8.78	9.63	0
			50	0	19.07	19.13	19.09	19.14	18.91	19.21	0	9.00	9.03	9.12	9.10	8.91	10.05	0
			50	28	19.37	19.20	19.20	19.23	19.02	19.15	0	9.01	8.84	8.90	8.93	8.83	9.85	0
			50	56	19.22	19.02	19.07	19.07	18.85	18.98	0	8.89	8.77	8.81	8.87	8.80	9.72	0
			100	0	19.13	19.07	19.10	19.13	18.92	19.07	0	9.13	8.86	8.95	8.94	8.88	9.88	0
		16QAM	1	1	19.10	19.03	19.10	18.95	18.73	19.22	0	9.01	9.43	9.38	9.27	8.93	10.33	0
		64QAM	1	1	18.87	18.94	19.00	19.01	18.67	18.98	0	9.38	9.29	9.30	9.43	9.11	10.07	0
		256QAM	1	1	18.90	18.70	18.84	18.76	18.46	18.75	0	8.93	9.19	9.35	9.33	8.99	9.80	0
	CP-OFDM	QPSK	1	1	18.63	19.06	19.02	19.11	18.70	18.86	0	9.14	8.94	8.99	9.04	8.65	9.88	0

Band width	Modulation	Mode	RB Size	RB offset	Max Average Conducted Power (dBm)						MPR [dB]	Back-off Average Conducted Power (dBm)						MPR [dB]
					647 668	651 000	654 334	657 666	661 000	664 332		647 668	651 000	654 334	657 666	661 000	664 332	
					3 715.02 MHz	3 765.00 MHz	3 815.01 MHz	3 864.99 MHz	3 915.00 MHz	3 964.98 MHz		3 715.02 MHz	3 765.00 MHz	3 815.01 MHz	3 864.99 MHz	3 915.00 MHz	3 964.98 MHz	
30 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	19.32	19.43	19.10	18.92	19.02	19.32	0	9.34	9.44	9.44	9.42	9.08	10.24	0
			1	39	19.42	19.35	19.08	18.88	19.00	19.24	0	9.20	9.19	9.16	9.14	8.96	9.88	0
			1	76	19.45	19.28	19.05	18.80	18.90	18.87	0	9.15	9.11	9.04	9.04	8.95	9.76	0
			36	0	19.31	19.23	18.90	18.80	18.95	19.15	0	9.18	9.25	9.21	9.18	9.05	10.03	0
			36	21	19.29	19.22	18.90	18.78	18.89	19.15	0	9.05	9.16	9.07	9.00	8.97	9.84	0
			36	42	19.37	19.12	18.85	18.71	18.89	18.90	0	9.04	9.06	8.98	9.00	8.98	9.75	0
			75	0	19.32	19.16	18.85	18.75	18.92	19.01	0	9.14	9.17	9.09	9.08	9.03	9.90	0
		QPSK	1	1	19.23	19.36	18.90	18.85	19.04	19.26	0	9.31	9.47	9.42	9.38	9.01	10.21	0
			1	39	19.36	19.30	18.90	18.82	19.04	19.19	0	9.08	9.20	9.10	9.15	8.90	9.86	0
			1	76	19.41	19.23	18.86	18.75	18.94	18.89	0	9.11	9.17	9.08	9.08	8.92	9.75	0
			36	0	19.21	19.20	18.83	18.76	18.82	19.09	0	8.94	9.18	9.13	9.03	8.97	9.96	0
			36	21	19.15	19.15	18.81	18.69	18.91	18.98	0	9.00	9.02	9.00	8.91	8.90	9.79	0
			36	42	19.30	19.12	18.80	18.69	18.76	18.86	0	8.90	8.96	8.94	8.87	8.90	9.69	0
			75	0	19.22	19.13	18.79	18.72	18.85	18.92	0	9.12	9.08	8.98	8.92	8.94	9.82	0
		16QAM	1	1	19.25	19.16	19.08	18.97	18.78	19.17	0	8.93	9.47	9.34	9.13	9.00	10.16	0
		64QAM	1	1	18.94	18.89	18.38	18.55	18.86	18.91	0	9.36	9.48	9.29	9.38	9.17	9.96	0
		256QAM	1	1	18.73	18.75	18.44	18.47	18.62	18.75	0	8.97	9.43	9.43	9.36	9.07	9.76	0
	CP-OFDM	QPSK	1	1	18.87	19.12	18.60	18.70	18.85	18.82	0	9.28	9.26	9.21	9.17	8.76	9.96	0

Band width	Modulation	Mode	RB Size	RB offset	Max Average Conducted Power (dBm)						MPR [dB]	Back-off Average Conducted Power (dBm)						MPR [dB]
					647 334	650 800	654 266	657 734	661 200	664 666		647 334	650 800	654 266	657 734	661 200	664 666	
					3 710.01 MHz	3 762.00 MHz	3 813.99 MHz	3 866.01 MHz	3 918.00 MHz	3 969.99 MHz		3 710.01 MHz	3 762.00 MHz	3 813.99 MHz	3 866.01 MHz	3 918.00 MHz	3 969.99 MHz	
20 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	19.37	19.38	19.17	19.22	19.28	19.17	0	9.37	9.43	9.50	9.41	8.91	10.20	0
			1	26	19.50	19.28	19.16	19.18	19.24	18.84	0	9.29	9.22	9.32	9.15	8.77	9.90	0
			1	49	19.47	19.22	19.09	19.10	19.15	18.86	0	9.29	9.16	9.23	9.03	8.76	9.79	0
			25	0	19.38	19.18	18.96	19.08	19.24	18.96	0	9.25	9.32	9.34	9.22	8.85	10.05	0
			25	13	19.35	19.14	18.97	19.08	19.16	18.82	0	9.15	9.21	9.22	9.06	8.78	9.89	0
			25	26	19.45	19.09	18.91	19.02	19.12	18.82	0	9.21	9.13	9.14	9.08	8.78	9.81	0
			50	0	19.35	19.10	18.93	19.02	19.19	18.86	0	9.17	9.22	9.23	9.09	8.83	9.93	0
		QPSK	1	1	19.34	19.38	19.28	19.21	19.28	19.23	0	9.30	9.47	9.42	9.39	8.85	10.16	0
			1	26	19.45	19.32	19.29	19.20	19.30	18.95	0	9.21	9.22	9.21	9.14	8.72	9.88	0
			1	49	19.49	19.22	19.24	19.09	19.16	18.90	0	9.18	9.17	9.18	9.08	8.72	9.76	0
			25	0	19.29	19.23	19.24	19.12	19.04	18.93	0	9.01	9.19	9.21	9.10	8.80	9.97	0
			25	13	19.23	19.18	19.22	19.07	19.13	18.87	0	9.13	9.10	9.09	8.98	8.73	9.83	0
			25	26	19.44	19.14	19.21	19.05	19.00	18.73	0	9.05	9.04	9.06	8.93	8.73	9.75	0
			50	0	19.34	19.14	19.14	19.10	19.09	18.86	0	9.22	9.12	9.16	8.98	8.76	9.87	0
		16QAM	1	1	18.93	19.29	19.14	19.22	18.98	18.75	0	8.89	9.39	9.36	9.08	8.82	10.06	0
		64QAM	1	1	18.60	19.02	18.46	18.83	19.04	18.67	0	9.27	9.32	9.27	9.22	9.01	9.80	0
		256QAM	1	1	18.38	18.89	18.49	18.70	18.82	18.36	0	9.10	9.56	9.58	9.51	8.88	9.87	0
	CP-OFDM	QPSK	1	1	18.53	19.23	18.66	18.95	19.03	18.44	0	9.24	9.20	9.27	9.11	8.59	9.89	0

Band width	Modulation	Mode	RB Size	RB offset	Max Average Conducted Power (dBm)						MPR [dB]	Back-off Average Conducted Power (dBm)						MPR [dB]
					647 168	650 700	654 234	657 766	661 300	664 832		647 168	650 700	654 234	657 766	661 300	664 832	
					3 707.52 MHz	3 760.50 MHz	3 813.51 MHz	3 866.49 MHz	3 919.50 MHz	3 972.48 MHz		3 707.52 MHz	3 760.50 MHz	3 813.51 MHz	3 866.49 MHz	3 919.50 MHz	3 972.48 MHz	
15 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	19.11	19.57	19.40	19.41	18.95	19.34	0	9.53	9.65	9.70	9.68	9.13	10.34	0
			1	19	18.95	19.27	19.15	19.14	18.68	19.04	0	9.28	9.24	9.32	9.34	8.75	9.95	0
			1	36	19.11	19.49	19.33	19.31	18.85	19.01	0	9.47	9.43	9.45	9.45	8.90	10.09	0
			18	0	18.98	19.36	19.23	19.17	18.79	19.16	0	9.31	9.37	9.40	9.44	8.88	10.15	0
			18	10	18.95	19.29	19.18	19.07	18.71	19.01	0	9.16	9.19	9.19	9.21	8.72	9.93	0
			18	20	19.04	19.29	19.23	19.15	18.77	18.97	0	9.27	9.29	9.30	9.32	8.80	9.96	0
			36	0	18.96	19.32	19.12	19.09	18.70	19.00	0	9.15	9.22	9.23	9.30	8.70	9.98	0
		QPSK	1	1	19.07	19.51	19.37	19.55	18.94	19.30	0	9.38	9.59	9.60	9.65	9.12	10.32	0
			1	19	18.77	19.22	19.08	19.26	18.68	18.99	0	9.13	9.21	9.17	9.28	8.74	9.87	0
			1	36	19.00	19.37	19.26	19.50	18.89	18.97	0	9.39	9.46	9.44	9.45	8.89	10.02	0
			18	0	18.96	19.13	19.07	19.27	18.69	18.97	0	9.11	9.25	9.31	9.27	8.74	10.08	0
			18	10	18.86	19.14	19.07	19.27	18.72	18.95	0	9.08	9.11	9.11	9.15	8.55	9.86	0
			18	20	18.99	19.09	19.05	19.20	18.60	18.78	0	9.11	9.18	9.18	9.16	8.62	9.89	0
			36	0	18.90	19.10	19.06	19.27	18.66	18.90	0	9.18	9.12	9.14	9.15	8.62	9.91	0
		16QAM	1	1	19.06	19.32	19.31	19.46	18.89	19.22	0	8.95	9.57	9.50	9.31	8.72	10.21	0
		64QAM	1	1	18.63	18.90	18.83	19.32	18.72	19.15	0	9.08	9.21	9.15	9.24	8.95	9.71	0
		256QAM	1	1	18.36	18.59	18.85	19.09	18.41	18.83	0	9.05	9.58	9.59	9.57	8.95	9.88	0
	CP-OFDM	QPSK	1	1	18.53	18.95	19.03	19.41	18.74	18.89	0	9.24	9.24	9.31	9.32	8.59	9.96	0

Band width	Modulation	Mode	RB Size	RB offset	Max Average Conducted Power (dBm)						MPR [dB]	Back-off Average Conducted Power (dBm)						MPR [dB]
					647 000	650 600	654 200	657 800	661 400	665 000		647 000	650 600	654 200	657 800	661 400	665 000	
					3 705.00 MHz	3 759.00 MHz	3 813.00 MHz	3 867.00 MHz	3 921.00 MHz	3 975.00 MHz		3 705.00 MHz	3 759.00 MHz	3 813.00 MHz	3 867.00 MHz	3 921.00 MHz	3 975.00 MHz	
10 MHz	DFT-s-OFDM	$\pi/2$ BPSK	1	1	19.28	19.62	19.59	19.58	19.01	19.29	0	9.50	9.66	9.80	9.74	9.25	10.09	0
			1	12	19.11	19.34	19.33	19.31	18.76	18.97	0	9.22	9.28	9.42	9.35	8.87	9.62	0
			1	22	19.29	19.51	19.55	19.47	18.93	19.08	0	9.59	9.61	9.72	9.64	9.18	9.90	0
			12	0	19.18	19.44	19.45	19.35	18.84	19.12	0	9.32	9.49	9.58	9.52	9.07	9.89	0
			12	6	19.10	19.33	19.35	19.25	18.76	18.98	0	9.23	9.36	9.45	9.39	8.93	9.72	0
			12	12	19.19	19.36	19.40	19.29	18.81	18.98	0	9.37	9.45	9.54	9.49	9.03	9.77	0
			24	0	19.11	19.34	19.34	19.26	18.77	18.98	0	9.26	9.39	9.49	9.42	8.96	9.77	0
		QPSK	1	1	19.24	19.62	19.55	19.51	19.00	19.28	0	9.37	9.65	9.71	9.70	9.23	10.01	0
			1	12	18.96	19.33	19.29	19.23	18.75	18.95	0	9.09	9.29	9.34	9.33	8.86	9.57	0
			1	22	19.17	19.45	19.47	19.43	18.93	19.08	0	9.45	9.61	9.65	9.63	9.16	9.82	0
			12	0	19.13	19.23	19.25	19.20	18.72	18.93	0	9.14	9.40	9.52	9.43	8.98	9.85	0
			12	6	19.01	19.24	19.28	19.22	18.75	18.94	0	9.18	9.28	9.38	9.31	8.86	9.69	0
			12	12	19.13	19.17	19.22	19.14	18.68	18.80	0	9.22	9.37	9.46	9.39	8.94	9.73	0
			24	0	19.05	19.21	19.24	19.20	18.71	18.88	0	9.28	9.30	9.40	9.31	8.88	9.71	0
		16QAM	1	1	19.35	19.75	19.52	19.30	19.02	19.04	0	9.05	9.68	9.69	9.47	8.96	9.99	0
		64QAM	1	1	18.90	19.36	19.03	19.14	18.84	19.09	0	9.49	9.68	9.70	9.74	9.49	9.83	0
		256QAM	1	1	18.63	19.04	19.05	18.90	18.51	18.96	0	9.19	9.75	9.88	9.81	9.22	9.73	0
	CP-OFDM	QPSK	1	1	18.83	19.38	19.25	19.27	18.90	19.02	0	9.36	9.40	9.53	9.46	8.84	9.77	0

10.4.11 NR n78 SRS 2 (SA) (Power Class 2)

Band width	Modulation	Max Average Conducted Power (dBm)			MPR [dB]
100 MHz	CW	633 334			0
		3 500.01 MHz			
		16.46			
90 MHz	CW	633 334			
		3 500.01 MHz			
		15.95			
80 MHz	CW	633 334			
		3 500.01 MHz			
		16.03			
70 MHz	CW	633 334			
		3 500.01 MHz			
		16.26			
60 MHz	CW	633 334			
		3 500.01 MHz			
		16.05			
50 MHz	CW	631 668		635 000	
		3 475.02 MHz		3 525.00 MHz	
		16.24		15.89	
40 MHz	CW	631 334		635 332	
		3 470.01 MHz		3 529.98 MHz	
		16.31		15.95	
30 MHz	CW	631 000	633 334	635 666	
		3 465.00 MHz	3 500.01 MHz	3 534.99 MHz	
		16.29	16.07	15.79	
20 MHz	CW	630 668	633 334	636 000	
		3 460.02 MHz	3 500.01 MHz	3 540.00 MHz	
		16.14	16.30	16.09	
15 MHz	CW	630 500	633 334	636 166	
		3 457.50 MHz	3 500.01 MHz	3 542.49 MHz	
		16.00	16.28	15.99	
10 MHz	CW	630 334	633 334	636 322	
		3 455.01 MHz	3 500.01 MHz	3 544.98 MHz	
		16.35	16.15	15.94	

10.4.12 NR n78 SRS 3 (SA) (Power Class 2)

Band width	Modulation	Max Average Conducted Power (dBm)			MPR [dB]
100 MHz	CW	633 334			0
		3 500.01 MHz			
		11.05			
90 MHz	CW	633 334			
		3 500.01 MHz			
		11.06			
80 MHz	CW	633 334			
		3 500.01 MHz			
		11.08			
70 MHz	CW	633 334			
		3 500.01 MHz			
		11.06			
60 MHz	CW	633 334			
		3 500.01 MHz			
		11.03			
50 MHz	CW	631 668		635 000	
		3 475.02 MHz		3 525.00 MHz	
		11.10		11.00	
40 MHz	CW	631 334		635 332	
		3 470.01 MHz		3 529.98 MHz	
		11.19		11.14	
30 MHz	CW	631 000	633 334	635 666	
		3 465.00 MHz	3 500.01 MHz	3 534.99 MHz	
		11.19	11.19	11.16	
20 MHz	CW	630 668	633 334	636 000	
		3 460.02 MHz	3 500.01 MHz	3 540.00 MHz	
		11.14	11.19	11.18	
15 MHz	CW	630 500	633 334	636 166	
		3 457.50 MHz	3 500.01 MHz	3 542.49 MHz	
		11.28	11.31	11.27	
10 MHz	CW	630 334	633 334	636 322	
		3 455.01 MHz	3 500.01 MHz	3 544.98 MHz	
		11.16	11.26	11.21	

10.4.13 NR n78 SRS 4 (SA) (Power Class 2)

Band width	Modulation	Max Average Conducted Power (dBm)			MPR [dB]
100 MHz	CW	633 334			0
		3 500.01 MHz			
		13.28			
90 MHz	CW	633 334			
		3 500.01 MHz			
		13.25			
80 MHz	CW	633 334			
		3 500.01 MHz			
		13.27			
70 MHz	CW	633 334			
		3 500.01 MHz			
		13.35			
60 MHz	CW	633 334			
		3 500.01 MHz			
		13.30			
50 MHz	CW	631 668		635 000	
		3 475.02 MHz		3 525.00 MHz	
		13.46		13.29	
40 MHz	CW	631 334		635 332	
		3 470.01 MHz		3 529.98 MHz	
		13.55		13.40	
30 MHz	CW	631 000	633 334	635 666	
		3 465.00 MHz	3 500.01 MHz	3 534.99 MHz	
		13.51	13.49	13.40	
20 MHz	CW	630 668	633 334	636 000	
		3 460.02 MHz	3 500.01 MHz	3 540.00 MHz	
		13.61	13.57	13.51	
15 MHz	CW	630 500	633 334	636 166	
		3 457.50 MHz	3 500.01 MHz	3 542.49 MHz	
		13.71	13.66	13.61	
10 MHz	CW	630 334	633 334	636 322	
		3 455.01 MHz	3 500.01 MHz	3 544.98 MHz	
		13.71	13.62	13.52	

10.5 WLAN Average Conducted Output Power

Justification for test configurations for WLAN per KDB Publication 248227 D01v02r02:

- Power measurements were performed for the transmission mode configuration with the highest maximum output power specified for production units.
- For transmission modes with the same maximum output power specification, powers were measured for the largest channel bandwidth, lowest order modulation and lowest data rate.
- For transmission modes with identical maximum specified output power, channel bandwidth, modulation and data rates, power measurements were required for all identical configurations.
- For each transmission mode configuration, powers were measured for the highest and lowest channels; and at the mid-band channel(s) when there were at least 3 channels supported.

Power Measurement Setup



10.5.1 WLAN Average Conducted Output Power

Band	Mode	Freq. [MHz]	Channel	Conducted Powers (dBm)			
				SISO		MIMO	
				Ant.1	Ant.2	Ant.1	Ant.2
WLAN 2.4 GHz	802.11b	2 412.0	1	18.40	18.94	-	
		2 437.0	6	19.20	18.86		
		2 462.0	11	18.84	19.04		
	802.11g	2 412.0	1	-		14.72	15.60
		2 437.0	6			15.58	15.42
		2 462.0	11			15.14	15.64
U-NII-2A	802.11a	5 260.0	52	N/A		17.28	17.46
		5 280.0	56			17.05	17.41
		5 300.0	60			17.02	17.20
		5 320.0	64			17.37	17.38
U-NII-2C		5 500.0	100			17.62	16.24
		5 600.0	120			17.24	16.98
		5 620.0	124			17.20	16.80
		5 720.0	144			17.32	16.60
U-NII-3		5 745.0	149			17.39	16.85
		5 785.0	157			17.56	16.51
		5 825.0	165			17.46	16.82
U-NII-4		5 845.0	169			17.44	17.01
		5 865.0	173			17.91	17.46
		5 885.0	177			17.69	17.40

10.5.2 WLAN Average Conducted Output Power(Back off-Grip Sensor)

Band	Mode	Freq. [MHz]	Channel	Conducted Powers (dBm)			
				SISO		MIMO	
				Ant.1	Ant.2	Ant.1	Ant.2
WLAN 2.4 GHz	802.11b	2 412.0	1	10.72	11.07	-	
		2 437.0	6	11.35	11.30		
		2 462.0	11	11.44	11.26		
	802.11g	2 412.0	1	-		10.88	11.47
		2 437.0	6			11.43	11.62
		2 462.0	11			11.74	11.65
U-NII-2A	802.11ac (VHT80)	5 290.0	58	N/A		7.39	7.10
U-NII-2C		5 530.0	106			7.74	6.75
		5 610.0	122			7.79	6.94
		5 690.0	138			7.69	6.26
U-NII-3		5 775.0	155			7.91	6.59
U-NII-4		5 855.0	171			7.83	6.82

Note: About verification of grip sensor, refer to Appendix D.

10.6 Bluetooth Average Conducted Output Power

Mode			Freq. [MHz]	Channel	Conducted Powers (dBm)			
					Ant.1		Ant.2	
					Max	Back-off (Grip Sensor)	Max	Back-off (Grip Sensor)
BDR	DH5	(1 Mbps)	2 402.0	0	19.12	10.37	18.75	10.32
			2 441.0	39	18.97	10.35	17.76	10.32
			2 480.0	78	18.61	8.75	17.82	8.02
EDR	2-DH5	(2 Mbps)	2 402.0	0	15.97	9.37	15.72	9.50
			2 441.0	39	15.76	9.43	14.71	9.80
			2 480.0	78	15.61	7.67	14.96	7.41
	3-DH5	(3 Mbps)	2 402.0	0	15.98	9.36	15.78	9.35
			2 441.0	39	15.77	9.42	14.73	9.65
			2 480.0	78	15.69	7.65	14.96	7.25
LE	1 Mbps	(37 Packet)	2 402.0	37	16.70	7.88	16.51	8.11
			2 440.0	17	17.33	8.35	16.25	8.84
			2 480.0	39	16.46	6.37	15.86	6.33
		(255 Packet)	2 402.0	37	16.13	7.81	16.03	8.06
			2 440.0	17	16.72	8.29	15.79	8.80
			2 480.0	39	16.04	6.32	15.41	6.28
	2 Mbps	(37 Packet)	2 404.0	0	16.78	8.27	16.70	8.25
			2 440.0	17	17.49	8.39	16.52	8.89
			2 478.0	36	16.85	6.90	16.23	6.47
		(255 Packet)	2 404.0	0	16.12	8.15	16.26	8.13
			2 440.0	17	16.83	8.27	15.89	8.78
			2 478.0	36	16.25	6.77	15.67	6.34
	125k	(37 Packet)	2 402.0	37	7.58	7.81	N/A	
			2 440.0	17	8.08	8.28		
			2 480.0	39	6.12	6.31		
		(255 Packet)	2 402.0	37	7.53	7.76		
			2 440.0	17	8.04	8.24		
			2 480.0	39	6.06	6.27		
	500k	(37 Packet)	2 402.0	37	7.63	7.86		
			2 440.0	17	8.14	8.34		
			2 480.0	39	6.21	6.36		
		(255 Packet)	2 402.0	37	7.59	7.80		
			2 440.0	17	8.08	8.30		
			2 480.0	39	6.13	6.32		

10.7 Wireless Bands Duty Factor

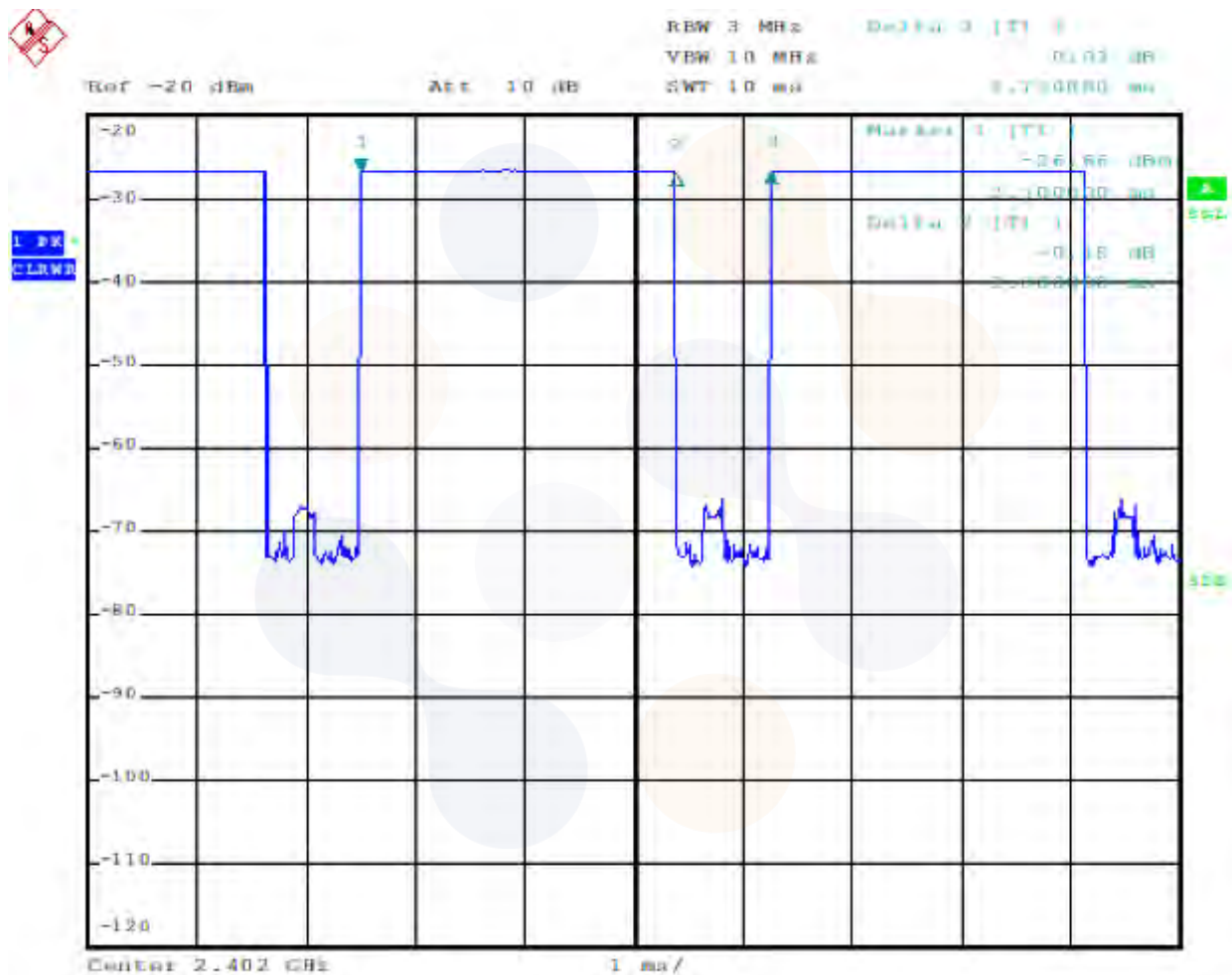
Wireless Bands	Frequency Bands	Ant.	Mode	Duty Cycle (%)
GSM	850 1900	Voice, GPRS(GMSK), EGPRS(8PSK)		Voice: 12.5
				(E)GPRS 1Tx : 12.5
				(E)GPRS 2Tx : 25.0
				(E)GPRS 3Tx : 37.5
				(E)GPRS 4Tx : 50.0
WCDMA	Band II/ IV/ V	RMC, AMR, HSDPA, HSUPA, DC-HSDPA		100
LTE	FDD Band 2/5/12/13/25/26/66	QPSK, 16QAM, 64QAM, 256QAM		100
	TDD Band 41			63.33
5G NR	n5/n26/n41/n66/n71/n77/n78	DFT-s-OFDM, CP-OFDM		100
WLAN	2.4 GHz	Ant.1/ Ant.2	802.11b	98.80
		MIMO	802.11g	93.25
	U-NII	MIMO	802.11a	93.73
			802.11ac (VHT80)	86.40

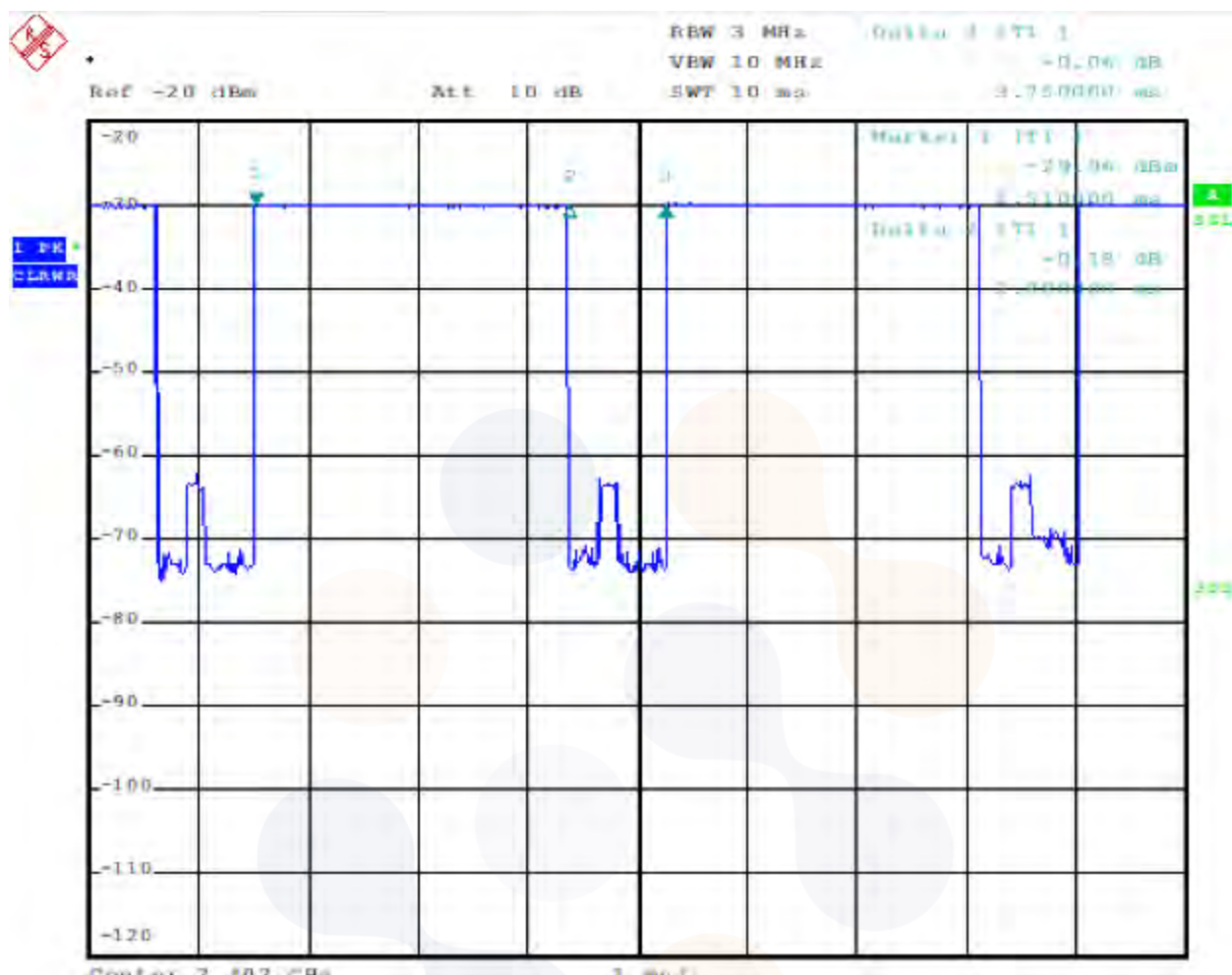
Note : NR TDD Bands were applied as Frame Power(duty 100%).

10.8 Bluetooth Duty Plot

Wireless Bands/ Ant.		Frequency Bands		On, Off Time		Duty Cycle		
		Mode	Packet	On Time (ms)	On-Off Time (ms)	Duty Cycle (%)	Declaration Duty Cycle (%)	Duty Cycle Compensate Factor
Bluetooth	Ant.1/ Ant.2	BDR (GFSK)	DH5	2.88	3.75	76.80	78.0	1.016

[Ant.1]





11. System Verification

11.1 Measurement date and environment

Shield room	Date	Environment	
		Temperature (°C)	Humidity (%)
8F - 3	2025-01-23	21.2 ~ 21.4	43.2 ~ 48.9
8F - 4	2024-11-22	22.1 ~ 22.4	55.2 ~ 55.6
	2024-11-26	22.0 ~ 22.3	55.2 ~ 55.5
	2024-11-27	22.0 ~ 22.1	55.1 ~ 55.7
	2025-03-11	21.9 ~ 22.4	55.5 ~ 56.7
8F - 5	2024-11-25	22.3 ~ 22.5	56.1 ~ 58.6
	2024-11-27	22.1 ~ 22.3	53.8 ~ 58.1
	2025-01-21	22.5 ~ 22.7	56.2 ~ 59.6
	2025-02-13	22.3 ~ 22.5	54.5 ~ 58.3
8F - 6	2024-11-26	21.5 ~ 21.8	56.1 ~ 56.6
	2024-11-27	21.4 ~ 21.5	55.4 ~ 55.8
	2024-11-28	21.3 ~ 21.6	55.3 ~ 55.7
	2024-12-11	21.1 ~ 21.4	55.8 ~ 55.9
	2024-12-12	21.5 ~ 21.8	55.6 ~ 55.7
	2025-01-15	21.2 ~ 21.6	55.4 ~ 56.0
	2025-01-21	21.4 ~ 21.8	55.6 ~ 56.1
	2025-01-22	21.3 ~ 21.5	55.2 ~ 55.5
	2025-01-24	21.0 ~ 21.3	55.0 ~ 55.4
	2025-01-25	21.6 ~ 21.8	55.4 ~ 55.9
	2025-01-26	21.3 ~ 21.5	55.8 ~ 56.1
	2025-02-05	21.5 ~ 21.9	56.0 ~ 56.4
	2025-02-13	21.7 ~ 22.0	55.3 ~ 55.9
8F - 7	2024-11-26	21.9 ~ 22.5	56.4 ~ 57.8
	2025-01-14	21.6 ~ 22.0	56.8 ~ 57.9
	2025-01-15	22.1 ~ 22.4	55.9 ~ 56.4
	2025-01-22	21.7 ~ 22.1	56.6 ~ 57.3
	2025-01-25	21.8 ~ 22.0	55.9 ~ 56.4
	2025-02-10	21.7 ~ 22.4	54.6 ~ 55.2

11.2 Tissue Verification

The dielectric properties for this Tissue Simulant Liquids were measured by using the SPEAG Model DAK3.5 Dielectric Probe in conjunction with Agilent E5071B Network Analyzer (300 kHz – 8 500 MHz). The Conductivity (σ) and Permittivity (ϵ_r) are listed in Table 1. For the SAR measurement given in this report. The temperature variation of the Tissue Simulant Liquids was $(22 \pm 2) ^\circ\text{C}$.

Freq. (MHz)	Recommended Limit/ Date	Permittivity (ϵ_r)	Conductivity (σ)	Temp. ($^\circ\text{C}$)
13.0	Recommended Limit	$55.00 \pm 5 \%$ (52.25~57.75)	$0.75 \pm 5 \%$ (0.71~0.79)	22 ± 2
	2025-01-23	55.90	0.72	21.26
750.0	Recommended Limit	$41.90 \pm 5 \%$ (39.81~44.00)	$0.89 \pm 5 \%$ (0.85~0.93)	22 ± 2
	2024-11-22	41.82	0.89	21.50
	2024-11-26	43.69	0.88	21.41
850.0	Recommended Limit	$41.50 \pm 5 \%$ (39.43~43.58)	$0.92 \pm 5 \%$ (0.87~0.97)	22 ± 2
	2024-11-26	41.50	0.88	21.54
	2024-11-27	41.76	0.90	21.49
	2024-11-28	41.80	0.90	21.38
	2025-01-22	42.00	0.89	21.43
1 750.0	Recommended Limit	$40.07 \pm 5 \%$ (38.07~42.07)	$1.37 \pm 5 \%$ (1.30~1.44)	22 ± 2
	2024-11-26	39.50	1.32	21.42
	2024-11-27	40.30	1.34	21.34
	2024-12-12	41.60	1.40	21.67
	2025-01-22	40.60	1.36	21.36
1 900.0	Recommended Limit	$40.00 \pm 5 \%$ (38.00~42.00)	$1.40 \pm 5 \%$ (1.33~1.47)	22 ± 2
	2024-11-25	39.40	1.39	21.18
	2024-11-27	40.80	1.40	21.22
	2024-12-11	38.50	1.39	21.55
	2025-01-21	40.60	1.39	21.55
	2025-01-21	40.80	1.37	21.49
	2025-02-13	40.10	1.39	21.48
2 450.0	Recommended Limit	$39.20 \pm 5 \%$ (37.24~41.16)	$1.80 \pm 5 \%$ (1.71~1.89)	22 ± 2
	2025-01-26	39.40	1.80	21.66
	2025-03-11	37.66	1.80	21.54
2 600.0	Recommended Limit	$39.00 \pm 5 \%$ (37.05~40.95)	$1.96 \pm 5 \%$ (1.86~2.06)	22 ± 2
	2025-01-14	37.80	1.92	21.45
	2025-01-15	38.50	1.96	21.37
	2025-01-25	38.80	1.90	21.58
	2025-02-10	38.70	1.98	21.49
3 500.0	Recommended Limit	$37.90 \pm 5 \%$ (36.01~39.80)	$2.91 \pm 5 \%$ (2.76~3.06)	22 ± 2
	2025-01-15	37.40	2.81	21.65
	2025-02-13	39.00	2.96	21.55
3 700.0	Recommended Limit	$37.70 \pm 5 \%$ (35.82~39.59)	$3.12 \pm 5 \%$ (2.96~3.28)	22 ± 2
	2025-02-05	36.60	3.05	21.49
	2025-02-13	38.50	3.13	21.55
3 900.0	Recommended Limit	$37.50 \pm 5 \%$ (35.63~39.38)	$3.33 \pm 5 \%$ (3.16~3.50)	22 ± 2
	2025-02-05	36.30	3.26	21.49
	2025-02-13	38.30	3.27	21.55

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Freq. (MHz)	Recommended Limit/ Date	Permittivity (ϵ_r)	Conductivity (σ)	Temp. (°C)
5 250.0	Recommended Limit	35.95 ± 5 % (34.15~37.75)	4.71 ± 5 % (4.47~4.95)	22 ± 2
	2025-01-24	37.30	4.57	21.32
5 600.0	Recommended Limit	35.50 ± 5 % (33.73~37.28)	5.07 ± 5 % (4.82~5.32)	22 ± 2
	2025-01-24	36.50	4.92	21.32
5 800.0	Recommended Limit	35.30 ± 5 % (33.54~37.07)	5.27 ± 5 % (5.01~5.53)	22 ± 2
	2025-01-24	36.00	5.11	21.32
5 800.0	Recommended Limit	35.30 ± 5 % (33.54~37.07)	5.27 ± 5 % (5.01~5.53)	22 ± 2
	2025-01-25	34.80	5.20	21.39

<Table 1. Measurement result of Tissue electric parameters>



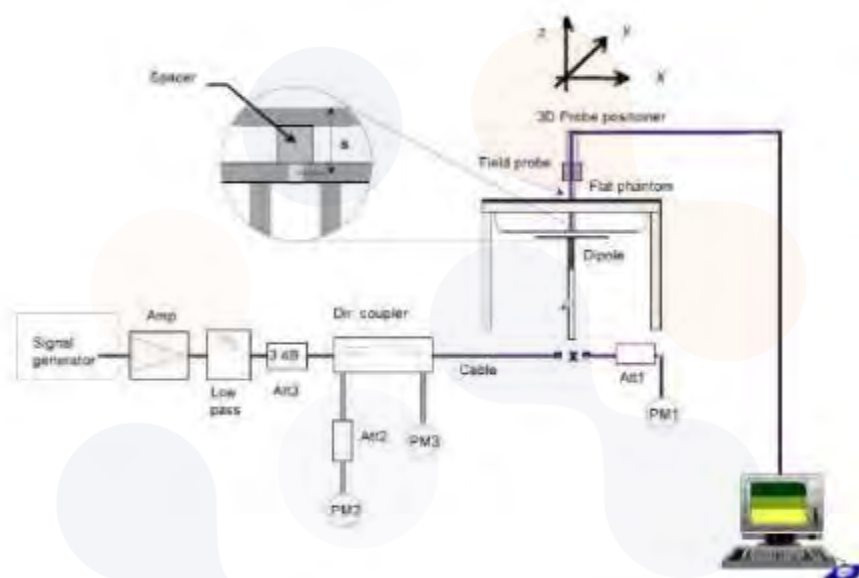
11.3 Test System Verification

The microwave circuit arrangement for system verification is sketched below picture.

The daily system accuracy verification occurs within the flat section of the SAM phantom.

A SAR measurement was performed to see if the measured SAR was within $\pm 10\%$ from the target SAR values. The tests were conducted on the same days as the measurement of the EUT. The obtained results from the system accuracy verification are displayed in the Table 2.

During the tests, the ambient temperature of the laboratory was in the range $(22 \pm 2) ^\circ\text{C}$, the relative humidity was in the range $(50 \pm 20)\%$ and the liquid depth Above the ear/grid reference points was above 15 cm in all the cases. It is seen that the system is operating within its specification, as the results are within acceptable tolerance of the reference values.



Frequency (MHz)	Tissue Type	Verification Kit	Probe S/N	Limit/Measured (Maxized to 1 W)	
				Measured	10g
13.0	HSL	CLA13 SN: 1019	EX3DV4 SN: 3928	Recommended Limit (Normalized)	$0.338 \pm 10\%$ (0.30 ~ 0.37)
				2025-01-23	0.326

Frequency (MHz)	Tissue Type	Verification Kit	Probe S/N	Limit/Measured (Normalized to 1 W)		
				Measured	1g	
750.0	HSL	D750V3 SN: 1224	EX3DV4 SN: 7540	Recommended Limit (Normalized)	8.52 ± 10 % (7.67~9.37)	
				2024-11-22	8.92	
				2024-11-26	8.84	
850.0	HSL	D850V2 SN: 1030	EX3DV4 SN: 7840	Recommended Limit (Normalized)	9.99 ± 10 % (8.99~10.99)	
				2024-11-26	10.20	
			EX3DV4 SN: 7540	2024-11-27	9.72	
				EX3DV4 SN: 3697	2024-11-28	10.36
					2025-01-22	10.12

Frequency (MHz)	Tissue Type	Verification Kit	Probe S/N	Limit/Measured (Normalized to 1 W)	
				Measured	1g
1 750.0	HSL	D1750V2 SN: 1195	EX3DV4 SN: 3697	Recommended Limit (Normalized)	37.00 ± 10 % (33.30~40.70)
				2024-11-26	37.16
				2024-11-27	38.00
				2024-12-12	38.76
				2025-01-22	36.44
1 900.0	HSL	D1900V2 SN: 5d248	EX3DV4 SN: 3928	Recommended Limit (Normalized)	39.70 ± 10 % (35.73~43.67)
				2024-11-25	40.00
				2024-11-27	39.88
			EX3DV4 SN: 3697	2024-12-11	38.84
			EX3DV4 SN: 7540	2025-01-21	39.32
			EX3DV4 SN: 3697		38.84
			EX3DV4 SN: 7770	2025-02-13	40.80
2 450.0	HSL	D2450V2 SN: 1091	EX3DV4 SN: 7851	Recommended Limit (Normalized)	51.40 ± 10 % (46.26~56.54)
			EX3DV4 SN: 3928	2025-01-26	53.70
				2025-03-11	54.10
2 600.0	HSL	D2600V2 SN: 1200	EX3DV4 SN: 3697	Recommended Limit (Normalized)	57.30 ± 10 % (51.57~63.03)
				2025-01-14	56.60
				2025-01-15	55.20
				2025-01-25	56.50
				2025-02-10	54.90
3 500.0	HSL	D3500V2 SN: 1146	EX3DV4 SN: 7851	Recommended Limit (Normalized)	65.70 ± 10 % (59.13~72.27)
				2025-01-15	64.40
				2025-02-13	65.20
3 700.0	HSL	D3700V2 SN: 1027	EX3DV4 SN: 7851	Recommended Limit (Normalized)	68.20 ± 10 % (61.38~75.02)
				2025-02-05	68.30
				2025-02-13	68.50
3 900.0	HSL	D3900V2 SN: 1043	EX3DV4 SN: 7851	Recommended Limit (Normalized)	69.10 ± 10 % (62.19~76.01)
				2025-02-05	65.40
				2025-02-13	69.50
5 250.0	HSL	D5GHzV2 SN: 1134	EX3DV4 SN: 7851	Recommended Limit (Normalized)	79.00 ± 10 % (71.10~86.90)
5 600.0	HSL			2025-01-24	72.30
				Recommended Limit (Normalized)	82.40 ± 10 % (74.16~90.64)
5 800.0	HSL			2025-01-24	80.50
				Recommended Limit (Normalized)	78.60 ± 10 % (70.74~86.46)
				2025-01-24	79.90
				Recommended Limit (Normalized)	78.60 ± 10 % (70.74~86.46)
					2025-01-25

<Table 2. System Verification Result>

12. SAR Test Results

12.1 Standalone Body SAR Test Results

GSM 850									
Mode	EUT Position	Distance (mm)	Frequency (MHz)	Measured Conducted Power (dBm)	Max. Tune-up Power (dBm)	Power Scaling Factor	Measured 1 g SAR (W/kg)	Reported 1 g SAR (W/kg)	Plot No.
GPRS 2Tx	Grip Sensor off								
	Rear	19	836.6	31.02	32.00	1.253	0.226	0.283	1
	Right	0	836.6	31.02	32.00	1.253	0.402	0.504	
	Top	18	836.6	31.02	32.00	1.253	0.125	0.157	
GPRS 4TX	Grip Sensor on								
	Rear	0	836.6	17.32	19.00	1.472	0.157	0.231	
	Top	0	836.6	17.32	19.00	1.472	0.182	0.268	

GSM 1900									
Mode	EUT Position	Distance (mm)	Frequency (MHz)	Measured Conducted Power (dBm)	Max. Tune-up Power (dBm)	Power Scaling Factor	Measured 1 g SAR (W/kg)	Reported 1 g SAR (W/kg)	Plot No.
GPRS 2Tx	Grip Sensor off								
	Rear	19	1 880.0	27.72	29.00	1.343	0.411	0.552	
	Right	0	1 880.0	27.72	29.00	1.343	0.384	0.516	
	Top	18	1 880.0	27.72	29.00	1.343	0.448	0.602	
GPRS 4Tx	Grip Sensor on								
	Rear	0	1 880.0	13.47	15.00	1.422	0.438	0.623	
	Top	0	1 880.0	13.47	15.00	1.422	0.539	0.766	2

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WCDMA Band II									
Mode	EUT Position	Distance (mm)	Frequency (MHz)	Measured Conducted Power (dBm)	Max. Tune-up Power (dBm)	Power Scaling Factor	Measured 1 g SAR (W/kg)	Reported 1 g SAR (W/kg)	Plot No.
RMC	Grip Sensor off								
	Rear	19	1 880.0	23.09	24.00	1.233	0.577	0.711	
	Right	0	1 880.0	23.09	24.00	1.233	0.466	0.575	
	Top	18	1 880.0	23.09	24.00	1.233	0.883	1.089	3
			1 852.4	23.11		1.227	0.764	0.937	
			1 907.6	23.05		1.245	0.859	1.069	
	Grip Sensor on								
	Rear	0	1 880.0	11.61	12.00	1.094	0.492	0.538	
	Top	0	1 880.0	11.61	12.00	1.094	0.620	0.678	
	Repeated SAR Test								
	Top	18	1 880.0	23.09	24.00	1.233	0.879	1.084	

WCDMA Band IV									
Mode	EUT Position	Distance (mm)	Frequency (MHz)	Measured Conducted Power (dBm)	Max. Tune-up Power (dBm)	Power Scaling Factor	Measured 1 g SAR (W/kg)	Reported 1 g SAR (W/kg)	Plot No.
RMC	Grip Sensor off								
	Rear	19	1 732.4	24.01	25.00	1.256	0.526	0.661	
	Right	0	1 732.4	24.01	25.00	1.256	0.203	0.255	
	Top	18	1 732.4	24.01	25.00	1.256	0.731	0.918	4
			1 712.4	24.15		1.216	0.685	0.833	
			1 752.6	24.10		1.230	0.723	0.889	
	Grip Sensor on								
	Rear	0	1 732.4	13.21	14.00	1.199	0.639	0.766	
	Top	0	1 732.4	13.21	14.00	1.199	0.515	0.617	

WCDMA Band V									
Mode	EUT Position	Distance (mm)	Frequency (MHz)	Measured Conducted Power (dBm)	Max. Tune-up Power (dBm)	Power Scaling Factor	Measured 1 g SAR (W/kg)	Reported 1 g SAR (W/kg)	Plot No.
RMC	Grip Sensor off								
	Rear	19	836.6	23.75	25.00	1.334	0.226	0.301	
	Right	0	836.6	23.75	25.00	1.334	0.436	0.582	5
	Top	18	836.6	23.75	25.00	1.334	0.074	0.099	
	Grip Sensor on								
	Rear	0	836.6	13.68	15.00	1.355	0.278	0.377	
	Top	0	836.6	13.68	15.00	1.355	0.156	0.211	

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LTE Band 2 (Sub1)										
Mode	EUT Position	Distance (mm)	Frequency (MHz)	Measured Conducted Power (dBm)	Max. Tune-up Power (dBm)	Power Scaling Factor	Measured 1 g SAR (W/kg)	Reported 1 g SAR (W/kg)	Plot No.	
Grip Sensor off										
QPSK 20 MHz 1RB 49Offset	Rear	18	1 900.0	22.38	23.00	1.153	0.744	0.858		
			1 860.0	22.34		1.164	0.517	0.602		
			1 880.0	22.29		1.178	0.612	0.721		
QPSK 20 MHz 50RB 24Offset				1 900.0	21.33	22.00	1.167	0.593	0.692	
QPSK 20 MHz 100RB 0Offset				1 900.0	21.20	22.00	1.202	0.565	0.679	
QPSK 20 MHz 1RB 49Offset	Right	0	1 900.0	22.38	23.00	1.153	0.019	0.022		
QPSK 20 MHz 50RB 24Offset				1 900.0	21.33	22.00	1.167	0.013	0.015	
QPSK 20 MHz 1RB 49Offset	Bottom	18	1 900.0	22.38	23.00	1.153	0.989	1.140	6	
			1 860.0	22.34		1.164	0.706	0.822		
			1 880.0	22.29		1.178	0.797	0.939		
QPSK 20 MHz 50RB 24Offset				1 900.0	21.33	22.00	1.167	0.784	0.915	
			1 860.0	21.25	1.189		0.561	0.667		
			1 880.0	21.17	1.211		0.632	0.765		
QPSK 20 MHz 100RB 0Offset				1 900.0	21.20	22.00	1.202	0.749	0.900	
Grip Sensor on										
QPSK 20 MHz 1RB 49Offset	Rear	0	1 900.0	13.15	13.50	1.084	0.529	0.573		
QPSK 20 MHz 50RB 24Offset				1 900.0	13.19	13.50	1.074	0.536	0.576	
QPSK 20 MHz 1RB 49Offset	Bottom	0	1 900.0	13.15	13.50	1.084	0.524	0.568		
QPSK 20 MHz 50RB 24Offset				1 900.0	13.19	13.50	1.074	0.533	0.572	
Repeated SAR Test										
QPSK 20 MHz 1RB 49Offset	Bottom	18	1 900.0	22.38	23.00	1.153	0.960	1.107		

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LTE Band 5									
Mode	EUT Position	Distance (mm)	Frequency (MHz)	Measured Conducted Power (dBm)	Max. Tune-up Power (dBm)	Power Scaling Factor	Measured 1 g SAR (W/kg)	Reported 1 g SAR (W/kg)	Plot No.
Grip Sensor off									
QPSK 10 MHz 1RB 25Offset	Rear	19	836.5	23.76	25.00	1.330	0.261	0.347	
QPSK 10 MHz 25RB 12Offset			836.5	22.73	24.00	1.340	0.203	0.272	
QPSK 10 MHz 1RB 25Offset	Right	0	836.5	23.76	25.00	1.330	0.494	0.657	7
QPSK 10 MHz 25RB 12Offset			836.5	22.73	24.00	1.340	0.390	0.523	
QPSK 10 MHz 1RB 25Offset	Top	18	836.5	23.76	25.00	1.330	0.134	0.178	
QPSK 10 MHz 25RB 12Offset			836.5	22.73	24.00	1.340	0.101	0.135	
Grip Sensor on									
QPSK 10 MHz 1RB 25Offset	Rear	0	836.5	14.75	16.00	1.334	0.350	0.467	
QPSK 10 MHz 25RB 12Offset			836.5	14.80	16.00	1.318	0.349	0.460	
QPSK 10 MHz 1RB 25Offset	Top	0	836.5	14.75	16.00	1.334	0.169	0.225	
QPSK 10 MHz 25RB 12Offset			836.5	14.80	16.00	1.318	0.166	0.219	

LTE Band 12									
Mode	EUT Position	Distance (mm)	Frequency (MHz)	Measured Conducted Power (dBm)	Max. Tune-up Power (dBm)	Power Scaling Factor	Measured 1 g SAR (W/kg)	Reported 1 g SAR (W/kg)	Plot No.
Grip Sensor off									
QPSK 10 MHz 1RB 0offset	Rear	19	707.5	23.76	25.00	1.330	0.105	0.140	
QPSK 10 MHz 25RB 25offset			707.5	22.75	24.00	1.334	0.087	0.116	
QPSK 10 MHz 1RB 0offset	Right	0	707.5	23.76	25.00	1.330	0.232	0.309	
QPSK 10 MHz 25RB 25offset			707.5	22.75	24.00	1.334	0.210	0.280	
QPSK 10 MHz 1RB 0offset	Top	18	707.5	23.76	25.00	1.330	0.053	0.070	
QPSK 10 MHz 25RB 25offset			707.5	22.75	24.00	1.334	0.040	0.053	
Grip Sensor on									
QPSK 10 MHz 1RB 0offset	Rear	0	707.5	15.72	17.00	1.343	0.333	0.447	
QPSK 10 MHz 25RB 25offset			707.5	15.72	17.00	1.343	0.334	0.449	8
QPSK 10 MHz 1RB 0offset	Top	0	707.5	15.72	17.00	1.343	0.183	0.246	
QPSK 10 MHz 25RB 25offset			707.5	15.72	17.00	1.343	0.181	0.243	

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LTE Band 13									
Mode	EUT Position	Distance (mm)	Frequency (MHz)	Measured Conducted Power (dBm)	Max. Tune-up Power (dBm)	Power Scaling Factor	Measured 1 g SAR (W/kg)	Reported 1 g SAR (W/kg)	Plot No.
Grip Sensor off									
QPSK 10 MHz 1RB 0offset	Rear	19	782.0	24.03	25.00	1.250	0.217	0.271	
QPSK 10 MHz 25RB 0offset			782.0	23.02	24.00	1.253	0.188	0.236	
QPSK 10 MHz 1RB 0offset	Right	0	782.0	24.03	25.00	1.250	0.401	0.501	9
QPSK 10 MHz 25RB 0offset			782.0	23.02	24.00	1.253	0.325	0.407	
QPSK 10 MHz 1RB 0offset	Top	18	782.0	24.03	25.00	1.250	0.077	0.096	
QPSK 10 MHz 25RB 0offset			782.0	23.02	24.00	1.253	0.063	0.079	
Grip Sensor on									
QPSK 10 MHz 1RB 0offset	Rear	0	782.0	14.04	15.00	1.247	0.256	0.319	
QPSK 10 MHz 25RB 0offset			782.0	13.94	15.00	1.276	0.233	0.297	
QPSK 10 MHz 1RB 0offset	Top	0	782.0	14.04	15.00	1.247	0.122	0.152	
QPSK 10 MHz 25RB 0offset			782.0	13.94	15.00	1.276	0.121	0.154	

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LTE Band 25											
Mode	EUT Position	Distance (mm)	Frequency (MHz)	Measured Conducted Power (dBm)	Max. Tune-up Power (dBm)	Power Scaling Factor	Measured 1 g SAR (W/kg)	Reported 1 g SAR (W/kg)	Plot No.		
Grip Sensor off											
QPSK 20 MHz 1RB 0Offset	Rear	19	1 860.0	23.10	24.00	1.230	0.499	0.614			
QPSK 20 MHz 50RB 0Offset			1 860.0	22.03	23.00	1.250	0.397	0.496			
QPSK 20 MHz 1RB 0Offset	Right	0	1 860.0	23.10	24.00	1.230	0.415	0.510			
QPSK 20 MHz 50RB 0Offset			1 860.0	22.03	23.00	1.250	0.330	0.413			
QPSK 20 MHz 1RB 0Offset	Top	18	1 860.0	23.10	24.00	1.230	0.698	0.859			
			1 882.5	22.99		1.262	0.760	0.959			
			1 905.0	22.84		1.306	0.775	1.012	10		
QPSK 20 MHz 50RB 0Offset			1 860.0	22.03	23.00	1.250	0.552	0.690			
QPSK 20 MHz 100RB 0Offset			1 860.0	21.99	23.00	1.262	0.571	0.721			
Grip Sensor on											
QPSK 20 MHz 1RB 49Offset			Rear	0	1 860.0	11.40	12.50	1.288	0.501	0.645	
QPSK 20 MHz 50RB 24Offset	1 860.0	11.50			12.50	1.259	0.518	0.652			
QPSK 20 MHz 1RB 49Offset	Top	0	1 860.0	11.40	12.50	1.288	0.595	0.766			
QPSK 20 MHz 50RB 24Offset			1 860.0	11.50	12.50	1.259	0.604	0.760			

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LTE Band 26									
Mode	EUT Position	Distance (mm)	Frequency (MHz)	Measured Conducted Power (dBm)	Max. Tune-up Power (dBm)	Power Scaling Factor	Measured 1 g SAR (W/kg)	Reported 1 g SAR (W/kg)	Plot No.
Grip Sensor off									
QPSK 15 MHz 1RB 0Offset	Rear	19	831.5	22.70	24.00	1.349	0.191	0.258	
QPSK 15 MHz 36RB 37Offset			831.5	21.75	23.00	1.334	0.149	0.199	
QPSK 15 MHz 1RB 0Offset	Right	0	831.5	22.70	24.00	1.349	0.360	0.486	
QPSK 15 MHz 36RB 37Offset			831.5	21.75	23.00	1.334	0.308	0.411	
QPSK 15 MHz 1RB 0Offset	Top	18	831.5	22.70	24.00	1.349	0.077	0.104	
QPSK 15 MHz 36RB 37Offset			831.5	21.75	23.00	1.334	0.071	0.095	
Grip Sensor on									
QPSK 15 MHz 1RB 0Offset	Rear	0	831.5	15.70	17.00	1.349	0.430	0.580	
QPSK 15 MHz 36RB 0Offset			831.5	15.67	17.00	1.358	0.437	0.593	11
QPSK 15 MHz 1RB 0Offset	Top	0	831.5	15.70	17.00	1.349	0.200	0.270	
QPSK 15 MHz 36RB 0Offset			831.5	15.67	17.00	1.358	0.207	0.281	

LTE Band 41									
Mode	EUT Position	Distance (mm)	Frequency (MHz)	Measured Conducted Power (dBm)	Max. Tune-up Power (dBm)	Power Scaling Factor	Measured 1 g SAR (W/kg)	Reported 1 g SAR (W/kg)	Plot No.
Grip Sensor off									
QPSK 20 MHz 1RB 49offset	Rear	16	2 593.0	23.62	25.00	1.374	0.277	0.381	
QPSK 20 MHz 50RB 0offset			2 593.0	22.68	24.00	1.355	0.223	0.302	
QPSK 20 MHz 1RB 49offset	Top	11	2 593.0	23.62	25.00	1.374	0.305	0.419	
QPSK 20 MHz 50RB 0offset			2 593.0	22.68	24.00	1.355	0.244	0.331	
Grip Sensor on									
QPSK 20 MHz 1RB 49offset	Rear	0	2 593.0	13.90	14.50	1.148	0.622	0.714	
			2 506.0	13.49	14.50	1.262	0.622	0.785	12
			2 549.5	13.56	14.50	1.242	0.600	0.745	
			2 636.5	13.65	14.50	1.216	0.607	0.738	
			2 680.0	13.52	14.50	1.253	0.571	0.715	
QPSK 20 MHz 50RB 0offset			2 593.0	14.01	14.50	1.119	0.625	0.699	
			2 506.0	13.64	14.50	1.219	0.622	0.758	
			2 549.5	13.70	14.50	1.202	0.616	0.740	
			2 636.5	13.72	14.50	1.197	0.604	0.723	
			2 680.0	13.62	14.50	1.225	0.581	0.712	
QPSK 20 MHz 1RB 49offset	Top	0	2 593.0	13.90	14.50	1.148	0.168	0.193	
QPSK 20 MHz 50RB 0offset			2 593.0	14.01	14.50	1.119	0.171	0.191	

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LTE Band 66 (Main1)									
Mode	EUT Position	Distance (mm)	Frequency (MHz)	Measured Conducted Power (dBm)	Max. Tune-up Power (dBm)	Power Scaling Factor	Measured 1 g SAR (W/kg)	Reported 1 g SAR (W/kg)	Plot No.
Grip Sensor off									
QPSK 20 MHz 1RB 0Offset	Rear	19	1 720.0	24.07	25.00	1.239	0.416	0.515	
QPSK 20 MHz 50RB 0Offset			1 720.0	23.10	24.00	1.230	0.335	0.412	
QPSK 20 MHz 1RB 0Offset	Right	0	1 720.0	24.07	25.00	1.239	0.231	0.286	
QPSK 20 MHz 50RB 0Offset			1 720.0	23.10	24.00	1.230	0.170	0.209	
QPSK 20 MHz 1RB 0Offset	Top	18	1 720.0	24.07	25.00	1.239	0.608	0.753	13
QPSK 20 MHz 50RB 0Offset			1 720.0	23.10	24.00	1.230	0.489	0.601	
Grip Sensor on									
QPSK 20 MHz 1RB 99Offset	Rear	0	1 720.0	12.91	13.50	1.146	0.445	0.510	
QPSK 20 MHz 50RB 50Offset			1 720.0	12.55	13.50	1.245	0.450	0.560	
QPSK 20 MHz 1RB 99Offset	Top	0	1 720.0	12.91	13.50	1.146	0.441	0.505	
QPSK 20 MHz 50RB 50Offset			1 720.0	12.55	13.50	1.245	0.437	0.544	

LTE Band 66 (Sub1)									
Mode	EUT Position	Distance (mm)	Frequency (MHz)	Measured Conducted Power (dBm)	Max. Tune-up Power (dBm)	Power Scaling Factor	Measured 1 g SAR (W/kg)	Reported 1 g SAR (W/kg)	Plot No.
Grip Sensor off									
QPSK 20 MHz 1RB 49Offset	Rear	18	1 720.0	22.53	23.00	1.114	0.271	0.302	
QPSK 20 MHz 50RB 24Offset			1 720.0	21.40	22.00	1.148	0.214	0.246	
QPSK 20 MHz 1RB 49Offset	Right	0	1 720.0	22.53	23.00	1.114	0.173	0.193	
QPSK 20 MHz 50RB 24Offset			1 720.0	21.40	22.00	1.148	0.137	0.157	
QPSK 20 MHz 1RB 49Offset	Bottom	18	1 720.0	22.53	23.00	1.114	0.367	0.409	14
QPSK 20 MHz 50RB 24Offset			1 720.0	21.40	22.00	1.148	0.297	0.341	
Grip Sensor on									
QPSK 20 MHz 1RB 49Offset	Rear	0	1 720.0	13.30	14.00	1.175	0.248	0.291	
QPSK 20 MHz 50RB 24Offset			1 720.0	13.32	14.00	1.169	0.246	0.288	
QPSK 20 MHz 1RB 49Offset	Bottom	0	1 720.0	13.30	14.00	1.175	0.285	0.335	
QPSK 20 MHz 50RB 24Offset			1 720.0	13.32	14.00	1.169	0.279	0.326	

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5G NR n5									
Mode	EUT Position	Distance (mm)	Frequency (MHz)	Measured Conducted Power (dBm)	Max. Tune-up Power (dBm)	Power Scaling Factor	Measured 1 g SAR (W/kg)	Reported 1 g SAR (W/kg)	Plot No.
Grip Sensor off									
DFT-S-OFDM_QPSK 20 MHz 1RB 1offset	Rear	19	836.5	23.09	24.00	1.233	0.207	0.255	
DFT-S-OFDM_QPSK 20 MHz 50RB 28offset			836.5	23.08	24.00	1.236	0.198	0.245	
DFT-S-OFDM_QPSK 20 MHz 1RB 1offset	Right	0	836.5	23.09	24.00	1.233	0.385	0.475	
DFT-S-OFDM_QPSK 20 MHz 50RB 28offset			836.5	23.08	24.00	1.236	0.414	0.512	
DFT-S-OFDM_QPSK 20 MHz 1RB 1offset	Top	18	836.5	23.09	24.00	1.233	0.073	0.090	
DFT-S-OFDM_QPSK 20 MHz 50RB 28offset			836.5	23.08	24.00	1.236	0.086	0.106	
Grip Sensor on									
DFT-S-OFDM_QPSK 20 MHz 1RB 1offset	Rear	0	836.5	16.01	17.00	1.256	0.448	0.563	
DFT-S-OFDM_QPSK 20 MHz 50RB 0offset			836.5	16.04	17.00	1.247	0.439	0.547	
CP-OFDM_QPSK 20 MHz 1RB 1offset			836.5	16.00	17.00	1.259	0.463	0.583	15
DFT-S-OFDM_QPSK 20 MHz 1RB 1offset	Top	0	836.5	16.01	17.00	1.256	0.218	0.274	
DFT-S-OFDM_QPSK 20 MHz 50RB 0offset			836.5	16.04	17.00	1.247	0.220	0.274	

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5G NR n26									
Mode	EUT Position	Distance (mm)	Frequency (MHz)	Measured Conducted Power (dBm)	Max. Tune-up Power (dBm)	Power Scaling Factor	Measured 1 g SAR (W/kg)	Reported 1 g SAR (W/kg)	Plot No.
Grip Sensor off									
DFT-S-OFDM_QPSK 20 MHz 1RB 1offset	Rear	19	831.5	23.00	24.00	1.259	0.203	0.256	
DFT-S-OFDM_QPSK 20 MHz 50RB 28offset			831.5	22.94	24.00	1.276	0.205	0.262	
DFT-S-OFDM_QPSK 20 MHz 1RB 1offset	Right	0	831.5	23.00	24.00	1.259	0.366	0.461	
DFT-S-OFDM_QPSK 20 MHz 50RB 28offset			831.5	22.94	24.00	1.276	0.405	0.517	
DFT-S-OFDM_QPSK 20 MHz 1RB 1offset	Top	18	831.5	23.00	24.00	1.259	0.066	0.083	
DFT-S-OFDM_QPSK 20 MHz 50RB 28offset			831.5	22.94	24.00	1.276	0.076	0.097	
Grip Sensor on									
DFT-S-OFDM_QPSK 20 MHz 1RB 1offset	Rear	0	831.5	15.89	17.00	1.291	0.433	0.559	
DFT-S-OFDM_QPSK 20 MHz 50RB 0offset			831.5	15.92	17.00	1.282	0.444	0.569	
CP-OFDM_QPSK 20 MHz 1RB 1offset			831.5	15.90	17.00	1.288	0.444	0.572	16
DFT-S-OFDM_QPSK 20 MHz 1RB 1offset	Top	0	831.5	15.89	17.00	1.291	0.208	0.269	
DFT-S-OFDM_QPSK 20 MHz 50RB 0offset			831.5	15.92	17.00	1.282	0.219	0.281	

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5G NR n41 SRS 1									
Mode	EUT Position	Distance (mm)	Frequency (MHz)	Measured Conducted Power (dBm)	Max. Tune-up Power (dBm)	Power Scaling Factor	Measured 1 g SAR (W/kg)	Reported 1 g SAR (W/kg)	Plot No.
Grip Sensor off									
DFT-S-OFDM_QPSK 100 MHz 1RB 1offset	Rear	16	2 592.99	18.70	19.00	1.072	0.091	0.098	
DFT-S-OFDM_QPSK 100 MHz 135RB 69offset			2 592.99	18.35	19.00	1.161	0.085	0.099	
DFT-S-OFDM_QPSK 100 MHz 1RB 1offset	Top	11	2 592.99	18.70	19.00	1.072	0.112	0.120	
DFT-S-OFDM_QPSK 100 MHz 135RB 69offset			2 592.99	18.35	19.00	1.161	0.112	0.130	
Grip Sensor on									
DFT-S-OFDM_QPSK 100 MHz 1RB 1offset	Rear	0	2 592.99	10.29	11.00	1.178	0.416	0.490	
DFT-S-OFDM_QPSK 100 MHz 135RB 138offset			2 592.99	10.22	11.00	1.197	0.452	0.541	
CP-OFDM_QPSK 100 MHz 1RB 1offset			2 592.99	10.02	11.00	1.253	0.447	0.560	17
DFT-S-OFDM_QPSK 100 MHz 1RB 1offset	Top	0	2 592.99	10.29	11.00	1.178	0.109	0.128	
DFT-S-OFDM_QPSK 100 MHz 135RB 138offset			2 592.99	10.22	11.00	1.197	0.113	0.135	

5G NR n41 SRS 2									
Mode	EUT Position	Distance (mm)	Frequency (MHz)	Measured Conducted Power (dBm)	Max. Tune-up Power (dBm)	Power Scaling Factor	Measured 1 g SAR (W/kg)	Reported 1 g SAR (W/kg)	Plot No.
100 MHz CW	Rear	0	2 592.99	9.42	10.00	1.143	0.289	0.330	18
	Bottom	0	2 592.99	9.42	10.00	1.143	0.087	0.099	

5G NR n41 SRS 3									
Mode	EUT Position	Distance (mm)	Frequency (MHz)	Measured Conducted Power (dBm)	Max. Tune-up Power (dBm)	Power Scaling Factor	Measured 1 g SAR (W/kg)	Reported 1 g SAR (W/kg)	Plot No.
100 MHz CW	Rear	0	2 592.99	8.63	9.00	1.089	0.372	0.405	19
	Top	0	2 592.99	8.63	9.00	1.089	0.057	0.062	

5G NR n41 SRS 4									
Mode	EUT Position	Distance (mm)	Frequency (MHz)	Measured Conducted Power (dBm)	Max. Tune-up Power (dBm)	Power Scaling Factor	Measured 1 g SAR (W/kg)	Reported 1 g SAR (W/kg)	Plot No.
100 MHz CW	Rear	0	2 592.99	11.57	12.00	1.104	0.250	0.276	20
	Right	0	2 592.99	11.57	12.00	1.104	0.096	0.106	

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5G NR n66									
Mode	EUT Position	Distance (mm)	Frequency (MHz)	Measured Conducted Power (dBm)	Max. Tune-up Power (dBm)	Power Scaling Factor	Measured 1 g SAR (W/kg)	Reported 1 g SAR (W/kg)	Plot No.
Grip Sensor off									
DFT-S-OFDM_QPSK 40 MHz 1RB 108offset	Rear	19	1 745.0	24.14	25.00	1.219	0.494	0.602	
DFT-S-OFDM_QPSK 40 MHz 108RB 54offset			1 745.0	24.10	25.00	1.230	0.501	0.616	
DFT-S-OFDM_QPSK 40 MHz 1RB 108offset	Right	0	1 745.0	24.14	25.00	1.219	0.198	0.241	
DFT-S-OFDM_QPSK 40 MHz 108RB 54offset			1 745.0	24.10	25.00	1.230	0.195	0.240	
DFT-S-OFDM_QPSK 40 MHz 1RB 108offset	Top	18	1 745.0	24.14	25.00	1.219	0.663	0.808	21
DFT-S-OFDM_QPSK 40 MHz 108RB 54offset			1 745.0	24.10	25.00	1.230	0.656	0.807	
DFT-S-OFDM_QPSK 40 MHz 216RB 0offset			1 745.0	23.16	24.00	1.213	0.596	0.723	
CP-OFDM_QPSK 40 MHz 1RB 1offset			1 745.0	22.85	23.50	1.161	0.448	0.520	
Grip Sensor on									
DFT-S-OFDM_QPSK 40 MHz 1RB 108offset	Rear	0	1 745.0	13.15	13.50	1.084	0.609	0.660	
DFT-S-OFDM_QPSK 40 MHz 108RB 108offset			1 745.0	13.17	13.50	1.079	0.611	0.659	
DFT-S-OFDM_QPSK 40 MHz 1RB 108offset	Top	0	1 745.0	13.15	13.50	1.084	0.433	0.469	
DFT-S-OFDM_QPSK 40 MHz 108RB 108offset			1 745.0	13.17	13.50	1.079	0.426	0.460	

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5G NR n71									
Mode	EUT Position	Distance (mm)	Frequency (MHz)	Measured Conducted Power (dBm)	Max. Tune-up Power (dBm)	Power Scaling Factor	Measured 1 g SAR (W/kg)	Reported 1 g SAR (W/kg)	Plot No.
Grip Sensor off									
DFT-S-OFDM_QPSK 20 MHz 1RB 53offset	Rear	19	680.5	24.08	25.00	1.236	0.117	0.145	
DFT-S-OFDM_QPSK 20 MHz 50RB 28offset			680.5	23.98	25.00	1.265	0.112	0.142	
DFT-S-OFDM_QPSK 20 MHz 1RB 53offset	Right	0	680.5	24.08	25.00	1.236	0.248	0.307	
DFT-S-OFDM_QPSK 20 MHz 50RB 28offset			680.5	23.98	25.00	1.265	0.257	0.325	
DFT-S-OFDM_QPSK 20 MHz 1RB 53offset	Top	18	680.5	24.08	25.00	1.236	0.047	0.058	
DFT-S-OFDM_QPSK 20 MHz 50RB 28offset			680.5	23.98	25.00	1.265	0.048	0.061	
Grip Sensor on									
DFT-S-OFDM_QPSK 20 MHz 1RB 1offset	Rear	0	680.5	16.10	17.00	1.230	0.338	0.416	
DFT-S-OFDM_QPSK 20 MHz 50RB 0offset			680.5	16.13	17.00	1.222	0.350	0.428	22
CP-OFDM_QPSK 20 MHz 1RB 1offset			680.5	16.18	17.00	1.208	0.347	0.419	
DFT-S-OFDM_QPSK 20 MHz 1RB 1offset	Top	0	680.5	16.10	17.00	1.230	0.154	0.189	
DFT-S-OFDM_QPSK 20 MHz 50RB 0offset			680.5	16.13	17.00	1.222	0.170	0.208	

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5G NR n77 SRS 1 (Power Class 2)									
Mode	EUT Position	Distance (mm)	Frequency (MHz)	Measured Conducted Power (dBm)	Max. Tune-up Power (dBm)	Power Scaling Factor	Measured 1 g SAR (W/kg)	Reported 1 g SAR (W/kg)	Plot No.
Grip Sensor off									
DFT-S-OFDM_QPSK 100 MHz 1RB 137offset	Rear	16	3 930.0	19.43	20.00	1.140	0.209	0.238	
DFT-S-OFDM_QPSK 100 MHz 135RB 69offset			3 930.0	19.34	20.00	1.164	0.254	0.296	
DFT-S-OFDM_QPSK 100 MHz 1RB 137offset	Top	11	3 930.0	19.43	20.00	1.140	0.493	0.562	
DFT-S-OFDM_QPSK 100 MHz 1RB 271offset			3 750.0	19.42	20.00	1.143	0.542	0.620	
DFT-S-OFDM_QPSK 100 MHz 135RB 69offset			3 930.0	19.34	20.00	1.164	0.500	0.582	
DFT-S-OFDM_QPSK 100 MHz 135RB 138offset			3 750.0	19.26	20.00	1.186	0.490	0.581	
Grip Sensor on									
DFT-S-OFDM_QPSK 100 MHz 1RB 271offset	Rear	0	3 750.0	10.01	10.50	1.119	0.798	0.893	
DFT-S-OFDM_QPSK 100 MHz 1RB 1offset			3 930.0	9.94	10.50	1.138	0.618	0.703	
DFT-S-OFDM_QPSK 100 MHz 135RB 138offset			3 750.0	9.91	10.50	1.146	0.815	0.934	
DFT-S-OFDM_QPSK 100 MHz 135RB 0offset			3 930.0	9.80	10.50	1.175	0.643	0.756	
DFT-S-OFDM_QPSK 100 MHz 270RB 0offset			3 750.0	9.79	10.50	1.178	0.875	1.031	23
CP-OFDM_QPSK 100 MHz 1RB 1offset			3 750.0	9.40	10.50	1.288	0.790	1.018	
DFT-S-OFDM_QPSK 100 MHz 1RB 271offset	Top	0	3 750.0	10.01	10.50	1.119	0.279	0.312	
DFT-S-OFDM_QPSK 100 MHz 135RB 138offset			3 750.0	9.91	10.50	1.146	0.251	0.288	
DoD SAR Test									
DFT-S-OFDM_QPSK 100 MHz 270RB 0offset	Rear	0	3 500.01	9.83	10.50	1.167	0.516	0.602	
Repeated SAR Test									
DFT-S-OFDM_QPSK 100 MHz 270RB 0offset	Rear	0	3 750.0	9.79	10.50	1.178	0.827	0.974	

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5G NR n78 SRS 2 (Power Class 2)									
Mode	EUT Position	Distance (mm)	Frequency (MHz)	Measured Conducted Power (dBm)	Max. Tune-up Power (dBm)	Power Scaling Factor	Measured 1 g SAR (W/kg)	Reported 1 g SAR (W/kg)	Plot No.
100 MHz CW	Rear	0	3 500.01	16.46	16.50	1.009	0.415	0.419	24
	Left	0	3 500.01	16.46	16.50	1.009	0.016	0.016	
	Top	0	3 500.01	16.46	16.50	1.009	0.410	0.414	

5G NR n78 SRS 3 (Power Class 2)									
Mode	EUT Position	Distance (mm)	Frequency (MHz)	Measured Conducted Power (dBm)	Max. Tune-up Power (dBm)	Power Scaling Factor	Measured 1 g SAR (W/kg)	Reported 1 g SAR (W/kg)	Plot No.
100 MHz CW	Rear	0	3 500.01	11.05	11.50	1.109	1.080	1.198	25
	Right	0	3 500.01	11.05	11.50	1.109	0.161	0.179	
<i>Repeated SAR Test</i>									
100 MHz CW	Rear	0	3 500.01	11.05	11.50	1.109	1.050	1.164	
<i>Accessories(Protective Cover) Additional SAR Test</i>									
100 MHz CW	Rear	0	3 500.01	11.05	11.50	1.109	0.570	0.632	

5G NR n78 SRS 4 (Power Class 2)									
Mode	EUT Position	Distance (mm)	Frequency (MHz)	Measured Conducted Power (dBm)	Max. Tune-up Power (dBm)	Power Scaling Factor	Measured 1 g SAR (W/kg)	Reported 1 g SAR (W/kg)	Plot No.
100 MHz CW	Rear	0	3 500.01	13.28	14.00	1.180	0.868	1.024	26
	Bottom	0	3 500.01	13.28	14.00	1.180	0.323	0.381	
<i>Repeated SAR Test</i>									
100 MHz CW	Rear	0	3 500.01	13.28	14.00	1.180	0.863	1.018	

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WLAN 2.4 GHz											
Ant.	Mode	EUT Position	Distance (mm)	Frequency (MHz)	Measured Conducted Power (dBm)	Max. Tune-up Power (dBm)	Power Scaling Factor	Duty Cycle Compensate Factor	Measured 1 g SAR (W/kg)	Reported 1 g SAR (W/kg)	Plot No.
Ant.1	802.11b	Grip Sensor Off									
		Rear	15	2 437.0	19.20	20.00	1.202	1.012	0.229	0.279	
		Left	0	2 437.0	19.20	20.00	1.202	1.012	0.298	0.362	
		Top	15	2 437.0	19.20	20.00	1.202	1.012	0.150	0.182	
		Grip Sensor On									
		Rear	0	2 462.0	11.44	12.00	1.138	1.012	0.567	0.653	27
Top		0	2 462.0	11.44	12.00	1.138	1.012	0.202	0.233		
Ant.2		Grip Sensor Off									
		Rear	19	2 462.0	19.04	20.00	1.247	1.012	0.136	0.172	
		Left	0	2 462.0	19.04	20.00	1.247	1.012	0.305	0.385	28
		Bottom	14	2 462.0	19.04	20.00	1.247	1.012	0.098	0.124	
		Grip Sensor On									
	Rear	0	2 437.0	11.30	12.00	1.175	1.012	0.287	0.341		
Bottom	0	2 437.0	11.30	12.00	1.175	1.012	0.097	0.115			
MIMO	802.11g	Grip Sensor Off									
		Rear	15	2 437.0	15.42	16.00	1.143	1.072	0.094	0.115	
		Left	0	2 437.0	15.42	16.00	1.143	1.072	0.149	0.183	
		Top	15	2 437.0	15.42	16.00	1.143	1.072	0.059	0.072	
		Bottom	14	2 437.0	15.42	16.00	1.143	1.072	0.043	0.053	
		Grip Sensor On									
		Rear	0	2 462.0	11.65	12.00	1.084	1.072	0.535	0.622	29
		Top	0	2 462.0	11.65	12.00	1.084	1.072	0.184	0.214	
Bottom	0	2 462.0	11.65	12.00	1.084	1.072	0.100	0.116			

U-NII-2A											
Ant.	Mode	EUT Position	Distance (mm)	Frequency (MHz)	Measured Conducted Power (dBm)	Max. Tune-up Power (dBm)	Power Scaling Factor	Duty Cycle Compensate Factor	Measured 1 g SAR (W/kg)	Reported 1 g SAR (W/kg)	Plot No.
MIMO	802.11a	Grip Sensor Off									
		Rear	15	5 320.0	17.37	18.00	1.156	1.067	0.201	0.248	
		Left	0	5 320.0	17.37	18.00	1.156	1.067	0.459	0.566	30
		Top	15	5 320.0	17.37	18.00	1.156	1.067	0.299	0.369	
		Bottom	14	5 320.0	17.37	18.00	1.156	1.067	0.177	0.218	
	802.11ac (VHT80)	Grip Sensor On									
		Rear	0	5 290.0	7.10	8.00	1.230	1.157	0.116	0.165	
		Top	0	5 290.0	7.10	8.00	1.230	1.157	0.211	0.300	
		Bottom	0	5 290.0	7.10	8.00	1.230	1.157	0.060	0.085	

U-NII-2C											
Ant.	Mode	EUT Position	Distance (mm)	Frequency (MHz)	Measured Conducted Power (dBm)	Max. Tune-up Power (dBm)	Power Scaling Factor	Duty Cycle Compensate Factor	Measured 1 g SAR (W/kg)	Reported 1 g SAR (W/kg)	Plot No.
MIMO	802.11a	Grip Sensor Off									
		Rear	15	5 600.0	16.98	18.00	1.265	1.067	0.375	0.506	
		Left	0	5 600.0	16.98	18.00	1.265	1.067	0.774	1.045	
				5 720.0	16.60	18.00	1.380	1.067	0.718	1.057	31
		Top	15	5 600.0	16.98	18.00	1.265	1.067	0.422	0.570	
		Bottom	14	5 600.0	16.98	18.00	1.265	1.067	0.318	0.429	
	802.11ac (VHT80)	Grip Sensor On									
		Rear	0	5 610.0	6.94	8.00	1.276	1.157	0.285	0.421	
		Top	0	5 610.0	6.94	8.00	1.276	1.157	0.244	0.360	
		Bottom	0	5 610.0	6.94	8.00	1.276	1.157	0.141	0.208	

U-NII-3											
Ant.	Mode	EUT Position	Distance (mm)	Frequency (MHz)	Measured Conducted Power (dBm)	Max. Tune-up Power (dBm)	Power Scaling Factor	Duty Cycle Compensate Factor	Measured 1 g SAR (W/kg)	Reported 1 g SAR (W/kg)	Plot No.
MIMO	802.11a	Grip Sensor Off									
		Rear	15	5 825.0	16.82	18.00	1.312	1.067	0.344	0.482	
		Left	0	5 825.0	16.82	18.00	1.312	1.067	0.674	0.944	
				5 745.0	16.85	18.00	1.303	1.067	0.744	1.034	32
		Top	15	5 825.0	16.82	18.00	1.312	1.067	0.536	0.750	
		Bottom	14	5 825.0	16.82	18.00	1.312	1.067	0.340	0.476	
	802.11ac (VHT80)	Grip Sensor On									
		Rear	0	5 775.0	6.59	8.00	1.384	1.157	0.219	0.351	
		Top	0	5 775.0	6.59	8.00	1.384	1.157	0.230	0.368	
		Bottom	0	5 775.0	6.59	8.00	1.384	1.157	0.102	0.163	

U-NII-4											
Ant.	Mode	EUT Position	Distance (mm)	Frequency (MHz)	Measured Conducted Power (dBm)	Max. Tune-up Power (dBm)	Power Scaling Factor	Duty Cycle Compensate Factor	Measured 1 g SAR (W/kg)	Reported 1 g SAR (W/kg)	Plot No.
MIMO	802.11a	Grip Sensor Off									
		Rear	15	5 865.0	17.46	18.00	1.132	1.067	0.391	0.472	
		Left	0	5 865.0	17.46	18.00	1.132	1.067	0.796	0.961	33
				5 885.0	17.40	18.00	1.148	1.067	0.740	0.906	
		Top	15	5 865.0	17.46	18.00	1.132	1.067	0.580	0.701	
		Bottom	14	5 865.0	17.46	18.00	1.132	1.067	0.421	0.509	
	802.11ac (VHT80)	Grip Sensor On									
		Rear	0	5 855.0	6.82	8.00	1.312	1.157	0.226	0.343	
		Top	0	5 855.0	6.82	8.00	1.312	1.157	0.228	0.346	
		Bottom	0	5 855.0	6.82	8.00	1.312	1.157	0.110	0.167	

Bluetooth											
Ant.	Mode	EUT Position	Distance (mm)	Frequency (MHz)	Measured Conducted Power (dBm)	Max. Tune-up Power (dBm)	Power Scaling Factor	Duty Cycle Compensate Factor	Measured 1 g SAR (W/kg)	Reported 1 g SAR (W/kg)	Plot No.
Ant.1	BDR_DH5	Grip Sensor Off									
		Rear	15	2 402.0	19.12	20.00	1.225	1.016	0.155	0.193	
		Left	0	2 402.0	19.12	20.00	1.225	1.016	0.309	0.385	
		Top	15	2 402.0	19.12	20.00	1.225	1.016	0.121	0.151	
		Grip Sensor On									
		Rear	0	2 441.0	10.35	11.40	1.274	1.016	0.431	0.558	34
		Top	0	2 441.0	10.35	11.40	1.274	1.016	0.142	0.184	
Ant.2		Grip Sensor Off									
		Rear	19	2 402.0	18.75	19.50	1.189	1.016	0.097	0.117	
		Left	0	2 402.0	18.75	19.50	1.189	1.016	0.231	0.279	35
		Bottom	14	2 402.0	18.75	19.50	1.189	1.016	0.075	0.091	
		Grip Sensor On									
		Rear	0	2 441.0	10.32	12.20	1.542	1.016	0.156	0.244	
		Bottom	0	2 441.0	10.32	12.20	1.542	1.016	0.071	0.111	

NFC							
Mode	EUT Position	Distance (mm)	Test setup		Frequency (MHz)	Measured 10 g SAR (W/kg)	Plot No.
			Type	Bitrate			
PBRS	Front	0	A	106	13.6	0.007	
		0	B	106	13.6	0.008	
		0	F	106	13.6	0.000	
		0	B	212	13.6	0.008	36
		0	B	424	13.6	0.008	
	Rear	0	B	212	13.6	0.000	
	Left	0	B	212	13.6	0.000	
	Right	0	B	212	13.6	0.000	
	Top	0	B	212	13.6	0.000	
	Bottom	0	B	212	13.6	0.000	

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General Notes:

1. The test data reported are the worst-case SAR values according to test procedures specified in IEEE 1528-2013, and FCC KDB Publication 447498 D04v01.
2. All modes of operation were investigated, and worst-case results are reported.
3. Battery is fully charged for all readings and the standard batteries are the only options.
4. Liquid tissue depth was at least 15 cm.
5. The manufacturer has confirmed that the device(s) tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units.
6. SAR results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB Publication 447498 D04v01.
7. This device utilizes power reduction for some wireless modes, as outlined in Section 2.3. The maximum output power allowed for each transmitter and exposure condition was evaluated for SAR compliance based on expected use conditions and simultaneous transmission scenarios.
8. Additional testing required in order satisfying FCC simultaneous transmission limit criteria.
9. Accessories(Protective Cover) were verified under the worst configuration RF exposure condition.

WCDMA Notes:

1. UMTS mode in was tested under RMC 12.2 kbps with HSPA Inactive per KDB Publication 941225 D01v03r01. AMR and HSPA SAR was not required per the 3G Test Reduction Procedure in KDB Publication 941225 D01v03r01.
2. Per FCC KDB Publication 447498 D04v01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg for 1g evaluations then testing at the other channels is not required for such test configuration(s).

LTE Notes:

1. Justification Start with the largest channel bandwidth and measure SAR for QPSK with 1 RB, and 50% RB allocation, using the RB offset and required test channel combination with the highest maximum output power among RB offsets at the upper edge, middle and lower edge of each required test channel.
2. When the reported SAR is > 0.8 W/kg, testing for other Channels is performed at the highest output power level for 1RB, and 50% RB configuration for that channel.
3. Testing for 100% RB configuration is performed at the highest output power level for 100% RB configuration across the Low, Mid and High Channel when the highest reported SAR for 1 RB and 50% RB are > 0.8 W/kg. Testing for the required channels is not needed because the reported SAR for 100% RB Allocation < 1.45 W/kg.
4. Testing for 16-QAM modulation is not required because the reported SAR for QPSK is < 1.45 W/Kg and its output power is not more than 0.5 dB higher than that of QPSK.
5. Testing for the other channel bandwidths is not required because the reported SAR for the highest channel bandwidth is < 1.45 W/Kg and its output power is not more than 0.5 dB higher than that of the highest channel bandwidth.
6. A-MPR was disabled for all SAR tests by setting NS=01 and MCC=001 on the base station simulator.
7. SAR tests were performed with the same number of RB and RB offsets transmitting on all TTI frames (maximum TTI).
8. TDD LTE was tested using UL-DL configuration 0 with 6 UL sub frames and 2S sub-frames using extended cyclic prefix only and special sub frame configuration 6. SAR tests were performed at maximum output power and worst-case transmission duty factor in extended cyclic prefix. Per 3GPP 36.211 Sec. 4, the duty factor using extended cyclic prefix is 0.633(cf=1.58).
9. For LTE bands that do not support at least three non-overlapping channels in certain channel bandwidths, test the available non-overlapping channels instead. 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; therefore, the requirement for H, M and L channels may not fully apply.

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5G NR Notes:

1. NR Bands support SA and NSA modes. NR Bands in EN-DC mode operates with the LTE Bands shown in the 5G NR Information acting as anchor bands.
2. More detailed specifications of the NR bands are contained in the Operational description document.
3. For NR modulations and RB Sizes/Offsets were selected for testing such that configurations with the highest output power were evaluated for SAR tests.
4. For NR TDD band, testing was performed in FTM mode (Duty 100%) provided by the manufacturer.
5. Simultaneous transmission analysis for EN-DC operations is addressed in the Part 2 Test Report.

WLAN & Bluetooth Notes:

1. Justification for test configurations for WLAN per KDB Publication 248227 D01v02r02 for 2.4GHz WIFI operations, the highest measured maximum output power channel for DSSS was selected for SAR measurement.
SAR for OFDM modes (2.4GHz 802.11g/n) was not required due to 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. The device was configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools. The reported SAR was scaled to the 100% transmission duty factor to determine compliance.
3. When the same transmission mode configurations have the same maximum output power on the same channel for the 802.11 a/g/n/ac/ax modes, the channel in the lower order/sequence 802.11 mode (i.e. a, g, n, ac then ax) is selected.
4. When the specified maximum output power is the same for both UNII Band1 and UNII Band 2A, begins SAR measurement in UNII band 2A; and if the highest reported SAR for UNII band 2A is ≤ 1.2 W/kg, SAR is not required for UNII band1 > 1.2 W/kg, both bands should be tested independently for SAR.
5. When the maximum reported 1g averaged SAR is ≤ 0.8 W/kg, SAR testing on additional channels was not required. Otherwise, SAR for the next highest output power channel was required until the reported SAR result was ≤ 1.20 W/kg for 1g evaluations or all test channels were measured.
6. This device supports 2X2 MIMO Tx for WLAN 802.11a/g/n/ac/ax. 802.11a/g/n/ac/ax supports CDD and STBC, 802.11n/ac/ax supports SDM. WLAN MIMO evaluation was applied conservatively.

NFC Notes:

1. NFC SAR testing was considered only under handheld conditions according to the manufacturer's operational description.