

Page: 1 of 32

# **ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT**





**FCC Applicant:** Telit Communications S.p.A.

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**FCC Manufacturer:** Telit Wireless Solutions. Co. Ltd.

13th Fl., Shinyoung Securities Bld, 6, Gukjegeumyung-ro 8-gil,

Yeongdeungpo-gu, Seoul, 07330, South Korea

**Product Name:** 5G Radio Module

**Brand Name:** Telit Cinterion or

Model No.: FE912C04-NA

**Report Number:** TERF2411003768ER

FCC ID RI7FE912C04NA

Date of EUT Received: November 26, 2024

Date of Test: November 27, 2024 ~ March 27, 2025

Issue Date: March 27, 2025

Approved By

#### We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI ANSI C63.26-2015 and the energy emitted by the sample EUT comply with FCC rule part 2, 22H & 24E & 27 C & 90S.

The results of this report relate only to the sample identified in this report.

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

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Page: 2 of 32

Revision History					
Report Number	Revision	Description	Issue Date	Revised By	Remark
TERF2411003768ER	00	Original	March 11, 2025	Yuri Tsai	
TERF2411003768ER	01	Update test result	March 27, 2025	Yuri Tsai	*

#### Note:

1 · The remark "\*" indicates modification of the report upon requests from certification body.

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Page: 3 of 32

# **Contents**

1	GENERAL PRODUCT INFORMATION	4
2	SYSTEM TEST CONFIGURATION	10
3	SUMMARY OF TEST RESULTS	14
4	DESCRIPTION OF TEST MODES	15
5	MEASUREMENT UNCERTAINTY	18
6	MEASUREMENT EQUIPMENT USED	19
7	STANDARD APPLICABLE	21
8	TEST SETUP	26
9	TEST PROCEDURE	29
10	MEASUREMENT RESULTS	32
11	PHOTOGRAPHS OF SET UP	32
12	PHOTOGRAPHS OF FUT	32

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Page: 4 of 32

## **GENERAL PRODUCT INFORMATION**

## **Product Description**

Product Name:	5G Radio Module
Brand Name:	Telit Cinterion or
Model No.:	FE912C04-NA
Hardware Version:	1.00
Firmware Version:	M0V.010001
EUT Series No.:	357752690013650
Power Supply:	3.8 Vdc
Test Software (Name/Version)	Connect with callbox

#### 1.2 **Operation Frequency Range**

NR Band 2				
BW (MHz)	Operation Frequency (MHz)			
5	1852.5	-	1907.5	
10	1855.0	-	1905.0	
15	1857.5	-	1902.5	
20	1860.0	-	1900.0	

NR Band 5			
BW (MHz)	Operation Frequency (MHz)		
5	826.5	-	846.5
10	829.0	-	844.0
15	831.5	-	841.5
20	834.0	-	839.0

NR Band 7				
BW (MHz)	Operation Frequency (MHz)			
5	2502.5	-	2567.5	
10	2505.0	-	2565.0	
15	2507.5	-	2562.5	
20	2510.0	-	2560.0	

NR Band 12				
BW (MHz)	Operation Frequency (MHz)			
5	701.5	-	713.5	
10	704.0	-	711.0	
15	706.5	-	708.5	

NR Band 13			
BW (MHz)	Operation Frequency (MHz)		
5	779.5	-	784.5
10	782	-	782

NR Band 14			
BW (MHz)	Operation	Freque	ency (MHz)
5	790.5	-	795.5
10	793.0	-	793.0

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Page: 5 of 32

NR Band 25				
BW (MHz)	Operation Frequency (MHz)			
5	1852.5	-	1912.5	
10	1855.0	-	1910.0	
15	1857.5	-	1907.5	
20	1860.0		1905.0	

NR Band 26 (Part 90)				
BW (MHz)	Operation	Freque	ency (MHz)	
5	816.5	-	821.5	
10	819.0	-	819.0	

NR Band 26				
BW (MHz)	Operation Frequency (MHz)			
5	826.5	-	846.5	
10	829.0	-	844.0	
15	831.5	-	841.5	
20	834.0	-	839.0	

NR Band 41							
BW (MHz)	Operation	Frequ	ency (MHz)				
10	2501.0	-	2685.0				
15	2503.5	-	2682.5				
20	2506.0	-	2680.0				

NR Band 66								
BW (MHz)	Operation	Frequ	ency (MHz)					
5	1712.5	-	1777.5					
10	1715.0	-	1775.0					
15	1717.5	-	1772.5					
20	1720.0	-	1770.0					

NR Band 71							
BW (MHz)	Operation	Freque	ency (MHz)				
5	665.5	-	695.5				
10	668.0	-	693.0				
15	670.5	-	690.5				
20	673.0	-	688.0				

NR Band 77 (lower)							
BW (MHz)	Operation I	Freque	ency (MHz)				
10	3455.0	-	3545.0				
15	3457.5	-	3542.5				
20	3460.0	-	3540.0				

NR Band 77 (upper)							
BW (MHz)	Operation Frequency (MHz)						
10	3705.0	-	3975.0				
15	3707.5	-	3972.5				
20	3710.0	-	3970.0				

NR Band 78 (lower)							
BW (MHz)	Operation I	Frequ	ency (MHz)				
10	3455.0	-	3545.0				
15	3457.5	-	3542.5				
20	3460.0	=	3540.0				

NR Band 78 (upper)								
BW (MHz)	Operation	Frequ	ency (MHz)					
10	3705.0	-	3795.0					
15	3707.5	-	3792.5					
20	3710.0	-	3790.0					

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Page: 6 of 32

### 1.3 Antenna Designation

Antenna Type	Antenna Model No.
Monopole	TG.55.8113
	in this test report are only available by the
above antenna(s).	

Fregency Antenna Gain TLB Line Loss Final Gain 5G NR Band (MHz) (dBi) (dB) (dBi) 1850 ~ 1910 3.09 2.39 n2 0.7 824 ~ 849 n5 0.58 0.3 0.28 n7 2500 ~ 2570 1.69 0.8 0.89 699 ~ 716 n12 -1.88 0.3 -2.18777~787 n13 -1.880.3 -2.18n14 788 ~ 798 -1.88 0.3 -2.18n25 1850 ~ 1915 0.7 2.39 3.09 n26 Part 90s 814 ~ 824 -1.88 0.3 -2.18 n26 824 ~ 849 0.58 0.3 0.28 2496 ~ 2690 n41 1.69 0.8 0.89 1710 ~ 1780 2.39 n66 3.09 0.7 n71 663 ~ 698 0.14 0.3 -0.16n77(lower) 3450 ~ 3550 1.51 1.1 0.41 n77(upper) 3700 ~ 3980 1.51 1.1 0.41 n78(lower) 3450 ~ 3550 1.51 1.1 0.41 n78(upper) 3700 ~ 3800 1.51 1.1 0.41

Note: Antenna information is provided by the applicant.

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Page: 7 of 32

## 1.4 Type of Emission & Max ERP/EIRP Power Measurement Result:

	Lower	Upper	: 1850 to 1910 MH	Conducted	EIRP	EIRP			
Bandwidth (MHz)	Frequency	Frequency	Modulation	Average	Average	Average	99% BW (MHz)	99% BW (kHz)	Type of Emission
(WITZ)	(MHz)	(MHz)		(dBm)	(dBm)	(W)			
			DFT-s PV2 BPSK DFT-s QPSK	23.18 23.15	25.57 25.54	0.361	4.5065 4.5212	4506.5 4521.2	4M51G7W 4M52G7W
5	1852.5	1907.5	DFT-s QAM	22.48	24.87	0.307	4.5069	4506.9	4M51D7W
5	1002.0	1707.0	CP QPSK	21.68	24.07	0.255	4.5212	4521.2	4M52G7W
			CP QAM	21.44	23.83	0.242	4.5069	4506.9	4M51D7W
			DFT-s PV2 BPSK	23.12	25.51	0.356	8.9614	8961.4	8M96G7W
			DFT-s QPSK	23.09	25.48	0.353	8.999	8999.0	9M00G7W
10	1855	1905	DFT-s QAM	22.67	25.06	0.321	9.0052	9005.2	9M01D7W
			CP QPSK	22.14	24.53	0.284	8.999	8999.0	9M00G7W
			CP QAM	21.77	24.16	0.261	9.0052	9005.2	9M01D7W
			DFT-s PV2 BPSK	23.24	25.63	0.366	13.444	13444.0	13M4G7W
15	1857.5	1902.5	DFT-s QPSK DFT-s QAM	23.23	25.62	0.365	13.446	13446.0 13513.0	13M4G7W
15	1857.5	1902.5	CP QPSK	22.87	25.26 24.62	0.336	13.513 13.446	13513.0	13M5D7W 13M4G7W
			CP QAM	21.97	24.02	0.273	13.513	13513.0	13M5D7W
			DFT-s PV2 BPSK	23.25	25.64	0.366	17.904	17904.0	17M9G7W
			DFT-s QPSK	23.22	25.61	0.364	17.914	17914.0	17M9G7W
20	1860	1900	DFT-s QAM	22.99	25.38	0.345	17.94	17940.0	17M9D7W
			CP QPSK	22.39	24.78	0.301	17.914	17914.0	17M9G7W
			CP QAM	22.06	24.45	0.279	17.94	17940.0	17M9D7W
G NR Band	n5_Uplink fre	equency band	: 824 to 849 MHz						
	Low	Upper		Conducted	ERP	ERP	99% BW	99% BW	
Bandwidth	Frequency	Frequency	Modulation	Average	Average	Average			Type of Emission
(MHz)	(MHz)	(MHz)		(dBm)	(dBm)	(W)	(MHz)	(kHz)	
			DFT-s PI/2 BPSK	23.12	21.25	0.133	4.5204	4520.4	4M52G7W
	l	l	DFT-s QPSK	23.11	21.24	0.133	4.5115	4511.5	4M51G7W
5	826.5	846.5	DFT-s QAM	22.60	20.73	0.118	4.518	4518.0	4M52D7W
	l	l	CP QPSK	22.54	20.67	0.117	4.5115	4511.5	4M51G7W
	<b></b>	<b> </b>	CP QAM	21.52	19.65	0.092	4.518	4518.0	4M52D7W
	l	l	DFT-s PV2 BPSK	23.06	21.19	0.132	8.9694	8969.4	8M97G7W
			DFT-s QPSK	23.03	21.16	0.131	8.9734	8973.4	8M97G7W
10	829	844	DFT-s QAM	22.60	20.73	0.118	8.9828	8982.8	8M98D7W
			CP QPSK CP QAM	22.18 21.60	20.31 19.73	0.107	8.9734 8.9828	8973.4 8982.8	8M97G7W 8M98D7W
			DFT-s PV2 BPSK	23.43	21.56	0.143	13.421	13421.0	13M4G7W
			DFT-S PIZ BPSK	23.43	21.30	0.143	13.421	13421.0	13M5G7W
15	831.5	841.5	DFT-s QAM	22.94	21.47	0.140	13.457	13509.0	13M5D7W
15	051.5	041.5	CP QPSK	22.68	20.81	0.121	13.457	13457.0	13M5G7W
			CP QAM	22.14	20.27	0.106	13.509	13509.0	13M5D7W
			DFT-s PV2 BPSK	23.14	21.27	0.134	17.891	17891.0	17M9G7W
			DFT-s QPSK	23.09	21.22	0.132	17.923	17923.0	17M9G7W
20	834	839	DFT-s QAM	22.79	20.92	0.124	17.905	17905.0	17M9D7W
			CP QPSK	22.31	20.44	0.111	17.923	17923.0	17M9G7W
			CP QAM	21.83	19.96	0.099	17.905	17905.0	17M9D7W
G NR Band	n7_Uplink fre	equency band	: 2500 to 2570 MH	Z					
Bandwidth	Low	Upper		Conducted	EIRP	EIRP	99% BW	99% BW	
(MHz)	Frequency	Frequency	Modulation	Average	Average	Average	(MHz)	(kHz)	Type of Emission
						(W)	` ′	. ,	
	(MHz)	(MHz)	DET - DIO DDCK	(dBm)	(dBm)		4.504	4504.0	
	(MHz)	(MHz)	DFT-s PV2 BPSK	23.04	23.93	0.247	4.504	4504.0	4M50G7W
			DFT-s QPSK	23.04 22.93	23.93 23.82	0.247 0.241	4.4966	4496.6	4M50G7W
5	(MHz) 2502.5	(MHz) 2567.5	DFT-s QPSK DFT-s QAM	23.04 22.93 22.76	23.93 23.82 23.65	0.247 0.241 0.232	4.4966 4.5096	4496.6 4509.6	4M50G7W 4M51D7W
			DFT-s QPSK DFT-s QAM CP QPSK	23.04 22.93 22.76 22.13	23.93 23.82 23.65 23.02	0.247 0.241 0.232 0.200	4.4966 4.5096 4.4966	4496.6 4509.6 4496.6	4M50G7W 4M51D7W 4M50G7W
			DFT-s QPSK DFT-s QAM CP QPSK CP QAM	23.04 22.93 22.76 22.13 21.48	23.93 23.82 23.65 23.02 22.37	0.247 0.241 0.232 0.200 0.173	4.4966 4.5096 4.4966 4.5096	4496.6 4509.6 4496.6 4509.6	4M50G7W 4M51D7W 4M50G7W 4M51D7W
			DFT-s QPSK DFT-s QAM CP QPSK	23.04 22.93 22.76 22.13	23.93 23.82 23.65 23.02	0.247 0.241 0.232 0.200	4.4966 4.5096 4.4966	4496.6 4509.6 4496.6	4M50G7W 4M51D7W 4M50G7W
			DFT-s OPSK DFT-s QAM CP QPSK CP QAM DFT-s PV2 BPSK	23.04 22.93 22.76 22.13 21.48 23.40	23.93 23.82 23.65 23.02 22.37 24.29	0.247 0.241 0.232 0.200 0.173 0.269	4.4966 4.5096 4.4966 4.5096 8.9564	4496.6 4509.6 4496.6 4509.6 8956.4	4M50G7W 4M51D7W 4M50G7W 4M51D7W 8M96G7W
5	2502.5	2567.5	DFT-s QPSK DFT-s QAM CP QPSK CP QAM DFT-s PV2 BPSK DFT-s QPSK	23.04 22.93 22.76 22.13 21.48 23.40 23.06	23.93 23.82 23.65 23.02 22.37 24.29 23.95	0.247 0.241 0.232 0.200 0.173 0.269 0.248	4.4966 4.5096 4.4966 4.5096 8.9564 8.9979 8.9794 8.9979	4496.6 4509.6 4496.6 4509.6 8956.4 8997.9	4M50G7W 4M51D7W 4M50G7W 4M51D7W 4M51D7W 8M96G7W 9M00G7W
5	2502.5	2567.5	DFT-S QPSK DFT-S QAM CP QPSK CP QAM DFT-S PV2 BPSK DFT-S QPSK DFT-S QAM CP QPSK CF QAM	23.04 22.93 22.76 22.13 21.48 23.40 23.06 22.55	23.93 23.82 23.65 23.02 22.37 24.29 23.95 23.44	0.247 0.241 0.232 0.200 0.173 0.269 0.248 0.221	4.4966 4.5096 4.4966 4.5096 8.9564 8.9979 8.9794	4496.6 4509.6 4496.6 4509.6 8956.4 8997.9 8979.4	4M50G7W 4M51D7W 4M50G7W 4M51D7W 8M96G7W 9M00G7W 8M98D7W
5	2502.5	2567.5	DFT-S QPSK DFT-S QAM CP QPSK CP QAM DFT-S PI/2 BPSK DFT-S QAM CP QPSK DFT-S QAM CP QPSK CP QAM CP QPSK CP QAM	23.04 22.93 22.76 22.13 21.48 23.40 23.06 22.55 22.38 21.72 23.13	23.93 23.82 23.65 23.02 22.37 24.29 23.95 23.44 23.27 22.61 24.02	0.247 0.241 0.232 0.200 0.173 0.269 0.248 0.221 0.212 0.182 0.252	4.4966 4.5096 4.4966 4.5096 8.9564 8.9979 8.9794 8.9979 8.9794 13.455	4496.6 4509.6 4496.6 4509.6 8956.4 8997.9 8979.4 8997.9 13455.0	4M50G7W 4M51D7W 4M50G7W 4M51D7W 8M96G7W 9M00G7W 8M98D7W 9M00G7W 8M98D7W 13M5G7W
5	2502.5 2505	2567.5 2565	DFT-S QPSK DFT-S QAM CP QPSK CP QAM DFT-S PIZ BPSK DFT-S QPSK DFT-S QAM CP QPSK CP QAM CP QAM CP QAM DFT-S PIZ BPSK CP QAM DFT-S QAM DFT-S QAM	23.04 22.93 22.76 22.13 21.48 23.40 23.06 22.55 22.38 21.72 23.13 22.94	23.93 23.82 23.65 23.02 22.37 24.29 23.95 23.44 23.27 22.61 24.02 23.83	0.247 0.241 0.232 0.200 0.173 0.269 0.248 0.221 0.212 0.182 0.252 0.242	4.4966 4.5096 4.4966 4.5096 8.9564 8.9979 8.9794 8.9979 8.9794 13.455 13.442	4496.6 4509.6 4496.6 4509.6 8956.4 8997.9 8979.4 8997.9 8979.4 13455.0 13442.0	4M50G7W 4M51D7W 4M51D7W 4M51D7W 8M96G7W 9M00G7W 8M98D7W 9M00G7W 8M98D7W 13M5G7W 13M4G7W
5	2502.5	2567.5	DFT-S QPSK DFT-S QAM CP QPSK CP QAM DFT-S PV2 BPSK DFT-S QPSK DFT-S QAM CP QPSK CP QAM DFT-S PV2 BPSK DFT-S QAM CP QAM DFT-S PV2 BPSK DFT-S QPSK DFT-S QPSK	23.04 22.93 22.76 22.13 21.48 23.40 23.06 22.55 22.38 21.72 23.13 22.94 22.60	23.93 23.82 23.65 23.02 22.37 24.29 23.95 23.44 23.27 22.61 24.02 23.83 23.49	0.247 0.241 0.232 0.200 0.173 0.269 0.248 0.221 0.212 0.182 0.252 0.242 0.223	4.4966 4.5096 4.4966 4.5096 8.9564 8.9979 8.9794 8.9979 8.9794 13.455 13.442	4496.6 4509.6 4496.6 4509.6 8956.4 8997.9 8979.4 8997.9 8979.4 13455.0 13442.0 13468.0	4M50G7W 4M51D7W 4M50G7W 4M51D7W 8M96G7W 9M00G7W 9M00G7W 8M98D7W 9M00G7W 13M5G7W 13M5G7W 13M5G7W
5	2502.5 2505	2567.5 2565	DFTs OPSK DFTs OAM CP OPSK CP OAM DFTs PIZ BPSK DFTs OPSK DFTs OPSK CP OAM CP OPSK CP OAM DFTs PIZ BPSK DFTs OPSK CP OAM DFTs OPSK CP OAM DFTs OPSK DFTS OPSK CP OAM CP OPSK	23.04 22.93 22.76 22.13 21.48 23.40 23.06 22.55 22.38 21.72 23.13 22.94 22.60 22.28	23.93 23.82 23.65 23.02 22.37 24.29 23.95 23.44 23.27 22.61 24.02 23.83 23.49 23.17	0.247 0.241 0.232 0.200 0.173 0.269 0.248 0.221 0.212 0.182 0.252 0.252 0.242 0.223 0.207	4.4966 4.5096 4.4966 4.5096 8.9564 8.9979 8.9794 8.9794 13.455 13.442 13.468 13.442	4496.6 4509.6 4496.6 4509.6 8956.4 8997.9 8979.4 8997.9 13455.0 13442.0 13468.0 13442.0	4M50G7W 4M51D7W 4M50G7W 4M51D7W 4M51D7W 8M96G7W 9M00G7W 9M00G7W 9M00G7W 13M5G7W 13M4G7W 13M4G7W 13M4G7W
5	2502.5 2505	2567.5 2565	DFT-s QPSK DFT-s QAM CP QPSK CP QAM DFT-s PII/2 BPSK DFT-s QPSK DFT-s QPSK CP QAM CP QPSK CP QAM DFT-s PII/2 BPSK DFT-s QAM CP QPSK CF QAM DFT-s QAM CP QPSK CP QAM DFT-s QAM CP QPSK CP QAM	23.04 22.93 22.76 22.13 21.48 23.40 23.06 22.55 22.38 21.72 23.13 22.94 22.60 22.28 21.75	23.93 23.82 23.65 23.02 22.37 24.29 23.95 23.44 23.27 22.61 24.02 23.83 23.17 22.64	0.247 0.241 0.232 0.200 0.173 0.269 0.248 0.221 0.182 0.252 0.242 0.242 0.242 0.243 0.207 0.184	4.4966 4.5096 4.4966 4.5096 8.9564 8.9979 8.9794 8.9799 13.455 13.442 13.468	4496.6 4509.6 4496.6 4509.6 8956.4 8997.9 8979.4 8997.9 8979.4 13455.0 13442.0 13468.0	4M50G7W 4M51D7W 4M50G7W 4M51D7W 8M96G7W 9M00G7W 8M98D7W 9M00G7W 8M98D7W 13M5G7W 13M5G7W 13M5D7W 13M5D7W 13M5D7W
5	2502.5 2505	2567.5 2565	DFT-s OPSK DFT-s OAM CP OPSK CP OAM DFT-s PI/2 BPSK DFT-s OPSK DFT-s OPSK DFT-s OPSK DFT-s OAM CP OPSK CP OAM DFT-s PI/2 BPSK DFT-s OAM DFT-s PI/2 BPSK DFT-s OAM DFT-s PI/2 BPSK DFT-s OAM	23.04 22.93 22.76 22.13 21.48 23.40 23.06 22.55 22.38 21.72 23.13 22.94 22.60 22.26 22.26	23,93 23,82 23,65 23,02 22,37 24,29 23,95 23,44 23,27 22,61 24,02 23,83 23,49 23,17 22,64 23,85	0.247 0.241 0.232 0.200 0.173 0.269 0.248 0.221 0.212 0.182 0.252 0.242 0.223 0.203 0.203 0.204 0.203 0.204 0.204 0.204 0.205 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.206 0.	4.4966 4.5096 4.4966 4.5096 8.9564 8.9794 8.9794 8.9794 13.455 13.442 13.468 17.916	4496.6 4509.6 4496.6 4509.6 8956.4 8979.9 8979.9 8979.4 13455.0 13442.0 13442.0 13448.0 17916.0	4M50G7W 4M51D7W 4M50G7W 4M50G7W 4M51D7W 8M96G7W 9M00G7W 8M98D7W 9M00G7W 13M5G7W 13M4G7W 13M4G7W 13M4G7W 13M5D7W 13M5D7W 17M50FW
5 10 15	2502.5 2505 2507.5	2567.5 2565 2562.5	DFT-s QPSK DFT-s QAM CP QPSK CP QAM DFT-s PIIZ BPSK DFT-s QPSK DFT-s QPSK DFT-s QPSK CP QAM DFT-s PIIZ BPSK CP QAM DFT-s QPSK CP QAM DFT-s QPSK CP QAM DFT-s QPSK DFT-s QPSK DFT-s QPSK CP QAM DFT-s PIIZ BPSK DFT-s QPSK CP QAM DFT-s PIIZ BPSK DFT-S QPSK CP QAM	23.04 22.93 22.76 22.13 21.48 23.40 23.06 22.55 22.38 21.72 23.13 22.94 22.60 22.28 21.75 22.94 22.60 22.28	23.93 23.85 23.65 23.02 22.37 24.29 23.95 23.44 23.27 22.61 24.02 23.83 23.49 23.17 22.64 23.23 23.85 23.85 23.85 23.85	0.247 0.241 0.232 0.200 0.173 0.269 0.248 0.221 0.182 0.252 0.242 0.223 0.207 0.184 0.223	4.4966 4.5096 4.4966 4.5096 4.5096 8.9564 8.9779 8.9794 8.9779 8.9791 13.455 13.442 13.468 13.442 13.468 17.916	4496.6 4509.6 4496.6 4509.6 4509.6 4509.6 8956.4 8997.9 8979.4 8997.9 8979.1 13455.0 13442.0 13468.0 17916.0	4M50G7W 4M51D7W 4M50G7W 4M51D7W 8M96G7W 9M00G7W 9M00G7W 9M00G7W 13M5G7W 13M5G7W 13M5D7W 13M5D7W 13M5D7W 13M5D7W 13M5D7W 13M5D7W 13M5D7W 13M5D7W 13M5D7W
5	2502.5 2505	2567.5 2565	DFT-s CPSK DFT-s CPSK CP OPSK CP OPSK CP OAM DFT-s P1/2 BPSK DFT-s OPSK CP OAM CP OPSK CP OAM DFT-s P1/2 BPSK DFT-s OAM CP OPSK DFT-s OAM DFT-s OPSK DFT-s OAM	23.04 22.93 22.76 22.13 21.48 23.40 23.06 22.55 22.38 21.72 23.13 22.94 22.60 22.28 21.75 22.96 22.93 22.66	23.93 23.82 23.65 23.02 22.37 24.29 23.95 23.44 23.27 22.61 24.02 23.83 23.49 23.17 22.64 23.85 23.82 23.95	0.247 0.241 0.232 0.200 0.173 0.269 0.248 0.221 0.212 0.182 0.252 0.242 0.242 0.243 0.207 0.184 0.243 0.241	4.4966 4.5096 4.4906 4.5096 4.5096 8.9564 8.9794 8.9794 8.9794 13.455 13.442 13.468 17.916 17.916	4496.6 4509.6 4496.6 4509.6 4509.6 4509.6 8956.4 8997.9 8979.4 8997.9 8979.4 8997.9 13455.0 13442.0 13468.0 17916.0 17916.0	4MS0G7W 4MS1D7W 4MS1D7W 4MS1D7W 4MS1D7W 4MS1D7W 9M00G7W 8M98D7W 13MSG7W 13MSG7W 13MSD7W 13MSD7W 13MSD7W 13MSD7W 13MSD7W 17M9G7W 17M9G7W 17M9G7W
5 10 15	2502.5 2505 2507.5	2567.5 2565 2562.5	DFT-S QPSK DFT-S QAM CP OPSK CP OAM DFT-S PUZ BPSK DFT-S QAM CP OPSK CP OAM DFT-S QAM CP OPSK CP OAM DFT-S QAM CP OPSK CP OAM DFT-S QAM DFT-S QAM DFT-S QAM CP OPSK CP OAM DFT-S QAM CP OPSK CP OAM DFT-S PUZ BPSK DFT-S QAM CP OPSK DFT-S QAM CP OPSK	23.04 22.93 22.76 22.13 21.48 23.40 23.06 22.55 22.38 21.72 23.13 22.94 22.60 22.26 22.29 22.29 22.29 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20	23,93 23,82 23,62 23,02 22,37 24,29 23,95 23,44 23,27 22,61 24,02 23,83 23,49 23,17 22,64 23,85 23,85 23,85 23,85 23,85 23,85 23,85 23,85 23,85 23,85 23,85 23,85 23,85 23,85 23,85 23,85 23,85 24,85 25,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85	0.247 0.241 0.232 0.200 0.173 0.269 0.248 0.221 0.212 0.182 0.252 0.242 0.223 0.207 0.184 0.243 0.241 0.245 0.269 0.187	4.4966 4.5096 4.4966 4.5096 8.9564 8.9979 8.9794 8.9794 13.455 13.442 13.468 17.916 17.916	4496.6 4509.6 4496.6 4509.6 8956.4 8997.9 8979.4 13455.0 13442.0 13442.0 13468.0 17916.0 17916.0 17946.0	4M5GC7W 4M5DTW 4M5DTW 4M5DTW 4M5DTW 4M5DTW 4M5DTW 4M5DTW 4M5DTW 4M5DTW 5M9GTW 5M9GTW 5M9GTW 5M9GTW 5M9GTW 5M9GTW 5M9GTW 5M9GTW 5M9GTW 13M4C7W 13M5CTW 13M5CTW 13M5CTW 13M5DTW 17M9DTW 17M9GTW 17M9GTW
5 10 15	2502.5 2505 2507.5	2567.5 2565 2562.5 2560	DFT-s QPSK DFT-s QAM CP OPSK CP OAM DFT-s PIV2 BPSK DFT-s OPSK DFT-s OPSK CP OAM DFT-s PIV2 BPSK CP OAM DFT-s PIV2 BPSK DFT-s OBSK DFT-s OBSK DFT-s OBSK DFT-s OBSK DFT-s OAM CP OPSK CP OAM DFT-s PIV2 BPSK DFT-s OAM CP OPSK CP OAM DFT-s PIV2 BPSK DFT-s OAM CP OPSK CP OAM	23.04 22.93 22.76 22.13 21.48 23.40 23.06 22.55 22.38 21.72 23.13 22.94 22.60 22.28 21.75 22.96 22.93 22.66	23.93 23.82 23.65 23.02 22.37 24.29 23.95 23.44 23.27 22.61 24.02 23.83 23.49 23.17 22.64 23.85 23.82 23.95	0.247 0.241 0.232 0.200 0.173 0.269 0.248 0.221 0.212 0.182 0.252 0.242 0.242 0.243 0.207 0.184 0.243 0.241	4.4966 4.5096 4.4906 4.5096 4.5096 8.9564 8.9794 8.9794 8.9794 13.455 13.442 13.468 17.916 17.916	4496.6 4509.6 4496.6 4509.6 4509.6 4509.6 8956.4 8997.9 8979.4 8997.9 8979.4 8997.9 13455.0 13442.0 13468.0 17916.0 17916.0	4MS0G7W 4MS1D7W 4MS1D7W 4MS1D7W 4MS1D7W 4MS1D7W 9M00G7W 8M98D7W 13MSG7W 13MSG7W 13MSG7W 13MSD7W 13MSD7W 13MSD7W 13MSD7W 17M9G7W 17M9G7W 17M9G7W
5 10 15 20 20 SG NR Band	2502.5 2506 2507.5 2510	2567.5 2565 2562.5 2560	DFT-S QPSK DFT-S QAM CP OPSK CP OAM DFT-S PUZ BPSK DFT-S QAM CP OPSK CP OAM DFT-S QAM CP OPSK CP OAM DFT-S QAM CP OPSK CP OAM DFT-S QAM DFT-S QAM DFT-S QAM CP OPSK CP OAM DFT-S QAM CP OPSK CP OAM DFT-S PUZ BPSK DFT-S QAM CP OPSK DFT-S QAM CP OPSK	23.04 22.93 22.76 22.13 21.48 23.40 23.06 22.55 22.38 21.72 23.13 22.94 22.60 22.28 21.75 22.96 22.93 22.66 21.82 21.65	23,93 23,82 23,65 23,02 22,37 24,29 23,95 23,44 23,27 22,61 24,02 23,83 23,49 23,17 22,64 23,85 23,82 23,82 23,55 22,71 22,54	0.247 0.241 0.232 0.200 0.173 0.269 0.248 0.221 0.112 0.182 0.252 0.242 0.207 0.184 0.241 0.241 0.241 0.270 0.184 0.241 0.241 0.241 0.270 0.184 0.241 0.241 0.241 0.241 0.270 0.184 0.241 0.241 0.241 0.241 0.241 0.241 0.242 0.242 0.242 0.242 0.242 0.242 0.244 0.244 0.244 0.244 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.245 0.	4.4966 4.5096 4.4966 6.45096 8.9564 8.9797 8.9794 13.455 13.442 13.468 17.916 17.916 17.944	4496.6 4509.6 4496.6 4509.6 8956.4 8997.9 8979.4 13455.0 13442.0 13442.0 17916.0 17916.0 17916.0 17914.0	4MSGC7W 4MSGGTW 4MSGGTW 4MSGGTW 4MSGGTW 4MSGGTW 9MGGC7W 9MGGC7W 9MGGC7W 9MGGC7W 13MGGTW 13MGGTW 13MGGTW 13MGGTW 13MGGTW 13MGGTW 13MGGTW 17MGGTW 17MGGTW 17MGGTW 17MGGTW 17MGGTW 17MGGTW 17MGGTW
5 10 15 20 G NR Band Bandwidth	2502.5 2505 2507.5	2567.5 2565 2562.5 2560	DFT-s QPSK DFT-s QAM CP OPSK CP OAM DFT-s PIV2 BPSK DFT-s OPSK DFT-s OPSK CP OAM DFT-s PIV2 BPSK CP OAM DFT-s PIV2 BPSK DFT-s OBSK DFT-s OBSK DFT-s OBSK DFT-s OBSK DFT-s OAM CP OPSK CP OAM DFT-s PIV2 BPSK DFT-s OAM CP OPSK CP OAM DFT-s PIV2 BPSK DFT-s OAM CP OPSK CP OAM	23.04 22.93 22.76 22.13 21.48 23.40 23.06 22.55 22.38 21.72 23.13 22.94 22.60 22.26 22.29 22.29 22.29 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20 22.20	23,93 23,82 23,62 23,02 22,37 24,29 23,95 23,44 23,27 22,61 24,02 23,83 23,49 23,17 22,64 23,85 23,85 23,85 23,85 23,85 23,85 23,85 23,85 23,85 23,85 23,85 23,85 23,85 23,85 23,85 23,85 23,85 24,85 25,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85 26,85	0.247 0.241 0.232 0.200 0.173 0.269 0.248 0.221 0.212 0.182 0.252 0.242 0.223 0.207 0.184 0.243 0.241 0.245 0.269 0.187	4.4966 4.5096 4.4966 4.5096 8.9564 8.9797 8.9794 13.455 13.442 13.468 17.916 17.916 17.944 17.944 99% BW	4496.6 4509.6 4496.6 4509.6 8956.4 8997.9 8997.9 8997.9 13455.0 13442.0 13442.0 17916.0 17916.0 17944.0 17944.0	### ### ### ### ### ### ### ### ### ##
5 10 15 20 G NR Band	2502.5  2505  2507.5  2510  n12_Uplink fi	2567.5 2565 2562.5 2560 requency ban Upper	DFT-S QPSK DFT-S QAM CP OPSK CP OPM CP OPSK DFT-S QAM DFT-S QAM CP OPSK DFT-S QAM CP OPSK CP OAM DFT-S QAM CP OPSK CP OAM DFT-S QAM DFT-S QAM DFT-S QAM DFT-S QAM CP OPSK CP OAM DFT-S QAM CP OPSK CP OAM CP OPSK CP OAM DFT-S QAM dFT-S QAM dFT-S QAM DFT-S QAM DFT-S QAM CP OPSK DFT-S QAM CP OPSK DFT-S QAM CP OPSK CP OAM d : 699 to 716 MHz	23.04 22.93 22.76 22.13 21.48 23.40 22.55 22.38 21.72 23.13 22.94 22.60 22.28 21.75 22.96 22.93 22.94 22.95 22.96 22.93 22.65 22.165	23,93 23,82 23,65 23,02 22,37 24,29 23,95 23,44 23,27 22,61 24,02 23,83 23,49 23,17 22,64 23,85 23,82 23,85 23,82 23,57 22,54	0.247 0.241 0.232 0.200 0.173 0.269 0.248 0.221 0.182 0.252 0.242 0.242 0.242 0.243 0.241 0.243 0.241 0.226 0.187 0.179	4.4966 4.5096 4.4966 6.45096 8.9564 8.9797 8.9794 13.455 13.442 13.468 17.916 17.916 17.944	4496.6 4509.6 4496.6 4509.6 8956.4 8997.9 8979.4 13455.0 13442.0 13442.0 17916.0 17916.0 17916.0 17914.0	### ### ### ### ### ### ### ### ### ##
5 10 15 20 G NR Band Bandwidth	2502.5  2506  2507.5  2510  n12_Uplink fi Low Frequency	2567.5  2565  2562.5  2560  requency ban Upper Frequency ban	DFT-S QPSK DFT-S QAM CP OPSK CP OPM CP OPSK DFT-S QAM DFT-S QAM CP OPSK DFT-S QAM CP OPSK CP OAM DFT-S QAM CP OPSK CP OAM DFT-S QAM DFT-S QAM DFT-S QAM DFT-S QAM CP OPSK CP OAM DFT-S QAM CP OPSK CP OAM CP OPSK CP OAM DFT-S QAM dFT-S QAM dFT-S QAM DFT-S QAM DFT-S QAM CP OPSK DFT-S QAM CP OPSK DFT-S QAM CP OPSK CP OAM d : 699 to 716 MHz	23.04 22.93 22.76 22.13 22.14 23.40 23.06 22.55 22.38 21.72 23.13 22.94 22.60 22.28 21.75 22.96 22.93 22.66 21.82 21.65	23,93 23,82 23,65 23,02 22,37 24,29 23,95 23,44 23,27 22,61 24,02 23,83 23,49 23,17 22,64 23,85 23,85 23,55 22,71 22,54	0.247 0.241 0.232 0.230 0.200 0.173 0.269 0.248 0.221 0.182 0.252 0.242 0.223 0.207 0.184 0.243 0.241 0.226 0.187 0.179	4.4966 4.5096 4.4966 4.5096 8.9564 8.9797 8.9794 13.455 13.442 13.468 17.916 17.916 17.944 17.944 99% BW	4496.6 4509.6 4496.6 4509.6 8956.4 8997.9 8997.9 8997.9 13455.0 13442.0 13442.0 17916.0 17916.0 17944.0 17944.0	### ### ### ### ### ### ### ### ### ##
5  10  15  20  G NR Band Bandwidth (MHz)	2502.5  2505  2507.5  2510  n12_Uplink fi Low Frequency (MHz)	2567.5  2565  2562.5  2560  requency ban Upper Frequency (MHz)	DFTs OPSK DFTs OAM OF OPSK OF OAM DFTS PIZ BPSK DFTS OAM CP OPSK OFTS OAM CP OPSK OFTS OAM CP OPSK OFTS OAM CP OPSK OFTS OAM OF OAM OFTS PIZ BPSK DFTS OAM CP OPSK OFTS OAM CP OPSK OFTS OAM CP OPSK OFTS OAM CP OPSK OFTS OAM OFTS PIZ BPSK OFTS OAM OFTS PIZ BPSK OFTS OAM OFTS PIZ BPSK OFTS OPSK OFTS OAM OFTS PIZ BPSK OFTS OPSK	23.04 22.93 22.76 22.13 21.48 23.40 23.06 22.55 22.38 21.72 23.13 22.94 22.60 22.28 21.75 22.96 22.93 22.76 22.98 21.75 22.96 22.91 22.60 22.28 21.65 22.28 21.65 22.28 21.65 22.28 21.65 22.28 21.65 22.28 21.65 22.28 21.65 22.28 21.65 22.28 21.65 22.28 21.65 22.28 21.65 22.28 21.65 22.28 21.65 22.28 21.65 22.28 21.65 22.28 21.65 22.28 21.65 22.28 22.28 23.08 23.08 23.08	23.93 23.82 23.65 23.02 22.37 24.29 23.95 23.44 23.27 22.61 24.02 23.83 23.49 23.17 22.64 23.85 23.82 23.85 23.82 23.85 23.82 23.85 23.82 23.85 23.82 23.85 23.82 23.85 23.82 23.85 23.82 23.85 23.82 23.85 23.82 23.85 23.82 23.85 23.82 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 25 25 25 25 25 25 25 25 25 25 25 25 25	0.247 0.241 0.242 0.232 0.200 0.173 0.269 0.248 0.221 0.212 0.182 0.252 0.252 0.242 0.223 0.207 0.184 0.224 0.223 0.207 0.184 0.243 0.241 0.226 0.187 0.179  ERP Average (W) 0.075	4.4966 4.5096 4.5096 8.9564 8.9794 8.9794 8.9794 13.455 13.442 13.468 17.916 17.916 17.944 17.944 17.944 17.944 4.4792 4.4792	4496.6 4509.6 4509.6 4509.6 8596.4 8997.9 8997.9 8997.9 13445.0 13442.0 13468.0 17916.0 17916.0 17944.0 17944.0 17944.0 4479.2 4479.2	### ### ### ### ### ### ### ### ### ##
5 10 15 20 G NR Band Bandwidth	2502.5  2506  2507.5  2510  n12_Uplink fi Low Frequency	2567.5  2565  2562.5  2560  requency ban Upper Frequency ban	DFTs OPSK DFTs OAM CP OPSK CP OAM DFTs PI2 BPSK DFTs OPSK DFTs OPSK DFTs OPSK CP OAM DFTs PI2 BPSK DFTs OAM CP OPSK CP OAM DFTs PI2 BPSK DFTs OAM CP OAM CP OAM CP OAM DFTs PI2 BPSK DFTs OAM CP OAM CP OAM CP OAM DFTs PI2 BPSK DFTs OAM CP OAM DFTS PI2 BPSK DFTS OAM CP OAM DFTS DPSK DFTS OAM CP OAM DFTS PI2 BPSK DFTS OAM DFTS PI2 BPSK DFTS OAM DFTS PI2 BPSK DFTS OAM DFTS OAM DFTS DFSK DFTS OAM	23.04 22.93 22.76 22.13 21.48 23.40 23.06 22.55 22.38 21.72 23.13 22.94 22.60 22.28 21.75 22.96 22.93 22.66 21.82 21.65   Conducted Average (dBm) 23.08 23.08 23.08 23.08	23.93 23.82 23.65 23.02 22.37 24.29 23.95 23.44 23.27 22.61 24.02 23.83 23.49 23.17 22.64 23.85 23.85 23.85 23.95 24.17 25.18 25.18 26.18 27.18 27.18 27.18 27.18 27.18 27.18 27.18 27.18 27.18 27.18 27.18 27.18 27.18 27.18 27.18 27.18 27.18 27.18 27.18 27.18 27.18 27.18 27.18 27.18 27.18 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17.916 17.916 17.944 17.916 17.944 17.916 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 17.944 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8997.9 8997.9 8997.9 13455.0 13442.0 13442.0 17916.0 17916.0 17916.0 17914.0 99% BW (kHz) 4479.2 4503.9	AMSGC7W AMSTD7W AMSTD7
5  10  15  20  G NR Band Bandwidth (MHz)	2502.5  2505  2507.5  2510  n12_Uplink fi Low Frequency (MHz)	2567.5  2565  2562.5  2560  requency ban Upper Frequency (MHz)	DFTs OPSK DFTs OAM OP OPSK OP OAM DFTs PIZ BPSK DFTs OAM CP OPSK OFTS OAM CP OPSK OFTS OAM CP OPSK OFTS OAM CP OPSK OFTS OAM OFTS PIZ BPSK DFTS OAM CP OPSK OFTS OAM CP OPSK OFTS OAM CP OPSK OFTS OAM CP OPSK OFTS OAM CP OAM OFTS PIZ BPSK DFTS OAM CP OAM DFTS PIZ BPSK DFTS OAM CP OAM OFTS PIZ BPSK DFTS OAM CP OAM OFTS PIZ BPSK DFTS OAM OFTS PIZ BPSK	23.04 22.93 22.76 22.13 21.48 23.40 23.26 22.55 22.38 21.72 23.13 22.94 22.60 22.28 21.75 22.96 21.82 21.65 Conducted Average (d8m) 23.08 23.06 22.74 22.30	23.93 23.82 23.65 23.02 22.37 24.29 23.95 23.44 23.27 22.61 24.02 23.83 23.49 23.17 22.64 23.85 23.85 23.85 23.85 23.85 23.85 24.87 25.87 26.87 26.87 27.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87	0.247 0.241 0.232 0.200 0.173 0.269 0.248 0.221 0.212 0.212 0.182 0.252 0.262 0.207 0.118 0.241 0.226 0.187 0.179 ERP Average (W) 0.075 0.069	4.4966 4.5096 4.5096 4.5096 8.9709 8.9709 8.9709 8.9704 13.455 13.442 13.468 17.916 17.944 17.916 17.944 17.916 17.944 4.4702 4.5039 4.5129	4496.6 4509.6 4496.6 4509.6 8956.4 8997.9 8979.9 8979.4 13455.0 13448.0 13448.0 17916.0 17916.0 17916.0 17916.0 17916.0 17916.0 17916.0 4479.2 4503.9 4503.9	#MSGC7W #MSGGTW #MSGTW #MSGGTW
5  10  15  20  G NR Band Bandwidth (MHz)	2502.5  2505  2507.5  2510  n12_Uplink fi Low Frequency (MHz)	2567.5  2565  2562.5  2560  requency ban Upper Frequency (MHz)	DFTs OPSK DFTs OAM CP OPSK CP OAM CP OPSK CP OAM DFTs PIZ BPSK DFTs OPSK DFTs OPSK CP OAM OFTS PIZ BPSK DFTs OAM CP OPSK CP OAM OFTS PIZ BPSK DFTS OAM CP OAM CP OPSK CP OAM CP OPSK CP OAM CP OPSK CP OAM DFTS PIZ BPSK DFTS OPSK DFTS OAM CP OAM OCH	23.04 22.76 22.13 21.48 23.40 23.06 22.55 22.38 21.72 23.13 22.94 22.60 22.28 21.75 22.93 22.165  Conducted Average (dBm) 23.08 23.08 23.08 23.08 22.74 22.31	23.93 23.82 23.65 23.02 22.37 24.29 23.95 23.44 23.27 22.61 24.02 23.83 23.49 23.17 22.64 23.85 23.85 23.55 22.71 22.54 ERP Average (dBm) 18.75 18.75	0.247 0.241 0.232 0.200 0.173 0.269 0.248 0.221 0.212 0.182 0.252 0.242 0.252 0.242 0.223 0.207 0.184 0.243 0.241 0.246 0.187 0.179  ERP Average (W) 0.075 0.069 0.063	4.4966 4.5096 4.5096 8.9564 8.9979 8.9794 13.455 13.442 13.468 17.916 17.944 17.916 17.944 17.916 4.4792 4.5124 4.5124	4496.6 4509.6 4490.6 4509.6 8956.4 8979.9 8979.9 8979.4 13455.0 13442.0 13448.0 17916.0 17944.0 17916.0 17944.0 17944.0 17944.0 17944.0 17944.0 17944.0 17944.0 17944.0 17944.0 17944.0 17944.0 17944.0	4M50G7W 4M51D7W 4M51D7W 4M51D7W 4M51D7W 4M51D7W 4M51D7W 4M51D7W 9M00G7W 9M00G7W 8M98D7W 9M00G7W 13M5G7W 13M5G7W 13M5G7W 13M5G7W 13M5D7W 13M5D7W 17M9G7W 17M9G7W 17M9G7W 17M9G7W 17M9G7W 17M9G7W 4M51D7W 4M55D7W 4M55D7W 4M55D7W 4M51D7W 4M51D7W
5  10  15  20  G NR Band Bandwidth (MHz)	2502.5  2505  2507.5  2510  n12_Uplink fi Low Frequency (MHz)	2567.5  2565  2562.5  2560  requency ban Upper Frequency (MHz)	DFTs QPSK OP OMM OP OP OP OP OMM OP OP OP OMM OP OP OMM OP OP OP OMM OP OP OMM OP OP OP OP OMM OP OP OP OMM OP OP OP OMM OP OP OP OP OMM OP OP OP OMM OP OP OP OP OMM OP OP OP OP OP OMM OP O	23.04 22.93 22.76 22.13 21.48 23.40 23.30 22.55 22.38 21.72 23.13 22.94 22.60 22.28 21.75 22.96 22.36 21.85 22.66 21.82 21.65  Conducted Average (dBm) 23.08 23.08 23.08 23.08 23.08 23.08 23.18 22.31 21.63	23.93 23.82 23.65 23.02 22.37 24.29 23.95 23.44 23.27 22.61 24.02 23.83 23.49 23.17 22.64 23.85 23.85 23.85 22.71 22.54 ERP Average (d8m) 18.75 18.73 18.73 18.73 18.73 19.98 17.30	0.247 0.247 0.232 0.200 0.173 0.269 0.248 0.221 0.212 0.212 0.223 0.203 0.207 0.182 0.252 0.242 0.223 0.207 0.184 0.241 0.226 0.187 0.179  ERP Average (W) 0.075 0.075 0.075 0.075 0.063 0.064 0.080	4.4966 4.5096 4.5096 4.5096 4.5096 8.9709 8.9794 8.9794 13.455 13.442 13.468 17.916 17.944 17.944 17.944 4.5029 4.5039 4.5124 4.5039 4.5124 8.9562	4496.6 4509.6 4496.6 4496.6 4509.6 8956.4 8997.9 8977.9 8977.9 8979.4 13448.0 13448.0 13448.0 17916.0 17916.0 17944.0 17916.0 17944.0 4479.2 4503.9 4512.4 8956.2 4503.9 4512.4	4MSOG7W 4MSDG7W 4MSDG7W 4MSDG7W 4MSDG7W 4MSDG7W 4MSDD7W 9MOG7W 9MOG7W 8M98D7W 13MSG7W 13MSG7W 13MSG7W 13MSG7W 13MSG7W 13MSG7W 13MSG7W 17M9G7W
5  10  15  20  IG NR Band (MHz)  5	2502.5  2505  2507.5  2510  n12_Uplink fi Low Frequency (MHz)  701.5	2567.5  2565  2562.5  2560  requency ban  Upper Frequency (MHz)  713.5	DFTs OPSK DFTs OAM OF OPSK OF OAM DFTS PIV2 BPSK DFTS OBM CP OPSK OFTS OPSK DFTS OAM CP OPSK CP OAM CP OPSK CP OAM CP OPSK DFTS OPSK DFTS OBSK DFTS OBSK DFTS OBSK DFTS OBSK DFTS OPSK CP OAM DFTS PIV2 BPSK DFTS OPSK DFTS OPSK DFTS OPSK DFTS OPSK DFTS OPSK DFTS OPSK DFTS OAM DFTS PIV2 BPSK DFTS OAM DFTS OPSK DFTS OAM DF	23.04 22.76 22.13 21.48 23.40 23.06 22.55 22.38 21.72 23.13 22.94 22.60 22.28 21.75 22.93 22.66 22.93 22.66 22.93 22.66 22.93 22.66 22.74 23.13 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08	23.93 23.82 23.65 23.02 22.37 24.29 23.95 23.44 23.27 22.61 24.02 23.83 23.49 23.17 22.64 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 24.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85 25.85	0.247 0.241 0.232 0.200 0.201 0.273 0.269 0.248 0.221 0.182 0.182 0.242 0.242 0.223 0.207 0.184 0.224 0.223 0.207 0.187 0.179  ERP Average (W) 0.075 0.069 0.069 0.069	4.4966 4.5096 4.5096 4.5096 8.9564 8.9979 8.9794 13.455 13.442 13.468 13.442 13.468 17.916 17.916 17.944 17.916 17.944 4.702 4.4702 4.5124 4.5039 4.5124 4.5124 8.9562	4496.6 4509.6 4509.6 4509.6 8956.4 8997.9 8979.4 8997.9 8979.4 13442.0 13442.0 13442.0 13448.0 17916.0 17916.0 17914.0 99% BW (kHz) 4503.9 4512.4 4503.9 4512.4 8963.8	4MS0G7W 4MS1D7W 4MS1D7W 4MS1D7W 4MS1D7W 4MS1D7W 8M96G7W 9M00G7W 8M98D7W 9M00G7W 8M98D7W 13M5G7W 13M5G7W 13M5G7W 13M5G7W 13M5D7W 13M5D7W 17M9G7W 17M9G7W 17M9G7W 17M9G7W 17M9G7W 17M9D7W 4MS1D7W 4MS1DFW 4MS1DF
5  10  15  20  G NR Band Bandwidth (MHz)	2502.5  2505  2507.5  2510  n12_Uplink fi Low Frequency (MHz)	2567.5  2565  2562.5  2560  requency ban Upper Frequency (MHz)	DFT-s OPSK  OPSK  OPSK  OPSK  OPSK  OPT-S OPM  DFT-S PIZ BPSK  DFT-S OPSK  OPT-S OPSK  OPT-S OPSK  OPSK  OPSK  OPSK  OPSK  OPSK  OPSK  OPSK  OPSK  OPOMM  DFT-S PIZ BPSK  DFT-S OPSK  OPSK  OPOMM  OPOPSK  OPOMM  OPOPSK  OPOMM  OPT-S OPSK  OPOMM  OPT-S OPSK  OPT-S OPSK  OPT-S OPSK  OPSK  OPOMM  OPT-S PIZ BPSK  OPT-S OPSK  OPT-S OPT-S  OPT-S  OPT-S OPT-S  OPT-S  OPT-S  OPT-S  OPT-S  OPT-S  OPT-S  OPT-S  OPT-S  OPT-S  OPT-S  OPT-S  OPT-S  OPT-S  OPT-S  OPT-S  OPT-S  OPT-S  OPT-S  OPT-S  OPT-S  OPT-S  OPT-S  OPT-S  OPT-S  OPT-S  OPT-S  OPT-S  OPT-S  OPT-S  OPT-S  OPT-S  OPT-S  OPT-S  OPT-S  OPT-S  OPT-S  OPT-S  OPT-S  OPT-S  OPT-S  OPT-S  OPT-S  OPT	23.04 22.93 22.76 22.13 21.48 23.40 23.06 22.55 22.38 21.72 23.13 22.94 22.60 22.28 21.75 22.96 22.96 22.16 22.16  Conducted Average (dBm) 23.06 22.74 22.31 23.08 23.06 22.74 22.31 22.31 22.31 22.33 23.38 23.31	23.93 23.82 23.65 23.02 22.37 24.29 23.95 23.44 23.27 22.61 24.02 23.83 23.49 23.17 22.64 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.85 23.75 22.71 22.54	0.247 0.250 0.271 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 0.272 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5  10  15  20  IG NR Band (MHz)  5	2502.5  2505  2507.5  2510  n12_Uplink fi Low Frequency (MHz)  701.5	2567.5  2565  2562.5  2560  requency ban  Upper Frequency (MHz)  713.5	DFTs OPSK DFTs OAM OF OPSK OF OAM DFTS PIZ BPSK DFTs OAM CP OPSK OFTS OPSK DFTS OAM CP OPSK OFTS PIZ BPSK DFTS OAM CP OPSK OFTS OAM CP OAM DFTS PIZ BPSK DFTS OAM DFTS OAM DFTS PIZ BPSK DFTS OAM DF	23.04 22.76 22.13 22.76 22.13 21.48 23.40 23.06 22.55 22.38 21.72 23.13 22.94 22.60 22.28 21.75 22.93 22.66 22.93 22.66 21.82 21.65  Conducted Average (dBm) 23.08 23.08 23.08 23.01 23.08 23.06 22.74 23.13 21.63 23.38 23.30 22.57	23.93 23.82 23.65 23.02 22.37 24.29 23.95 23.44 23.27 22.61 24.02 23.83 23.49 23.17 22.64 23.85 23.82 23.55 22.71 22.54 ERP (dBm) 18.75 18.75 18.75 18.98 17.30 19.05 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98 18.98	0.241 0.232 0.241 0.232 0.00 0.00 0.00 0.00 0.00 0.00 0.0	4.496.6 4.509.6 4.509.6 4.509.6 4.509.6 8.997.9 8.979.4 8.997.9 8.979.1 3.442 13.468 13.442 17.916 17.916 17.944 17.916 4.479.2 8.9638 8.9839 8.9938 8.9838	4496.6 4509.6 44509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4509.6 4	### ### ### ### ### ### ### ### ### ##
5  10  15  20  IG NR Band (MHz)  5	2502.5  2505  2507.5  2510  n12_Uplink fi Low Frequency (MHz)  701.5	2567.5  2565  2562.5  2560  requency ban  Upper Frequency (MHz)  713.5	DFTs QPSK DFTs QAM CP QPSK CP QAM CP QPSK CP QAM DFTs PI2 BPSK DFTs QPSK DFTs QSM CP QOM CP QPSK CP QAM DFTs PI2 BPSK DFTs QAM CP QAM DFTs PI2 BPSK DFTs QAM CP QSK DFTs QAM CP QAM CP QPSK DFTs QAM CP QAM CP QAM CP QAM DFTs PI2 BPSK DFTs QAM CP QAM DFTS PI2 BPSK DFTs QAM CP QAM	23.04 22.93 22.76 22.13 21.48 23.40 23.06 22.55 22.38 21.72 23.13 22.94 22.60 22.28 21.75 22.93 22.165  Conducted Average (dBm) 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 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10 15 20 SiG NR Band (MHz) 5	2502.5  2506  2507.5  2510  n12_Uplink fi Low Frequency (MHz)  701.5	2567.5  2565  2562.5  2560  requency ban Upper Frequency (MHz)  713.5	DFTs OPSK DFTs OAM OF OPSK OF OAM DFTS PIV2 BPSK DFTS OBSK DFTS OBSK DFTS OPSK DFTS OAM CP OPSK CP OAM CP OPSK CP OAM DFTS PIV2 BPSK DFTS OBSK DFTS OAM DFTS PIV2 BPSK DFTS OAM DFTS OBSK DFTS OAM DFTS OBSK DFTS OAM DFTS O	23.04 22.76 22.13 21.48 23.40 23.06 22.55 22.38 21.72 23.13 22.94 22.60 22.28 21.75 22.93 22.66 22.93 22.66 22.74 23.08 23.08 23.08 23.08 23.08 23.08 23.08 23.08 22.74 22.31	23.93 23.82 23.65 23.02 22.37 24.29 23.27 24.29 23.44 23.27 22.61 24.02 23.83 23.49 23.17 22.64 23.85 23.85 23.85 23.85 23.85 23.85 23.87 24.99 25.87 26.87 26.87 27.87 27.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 28.87 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8.9796 8.9796 8.9796 8.9796 8.9796 8.9796 8.9796 8.9796 8.9796 8.9796 8.9796 8.9796 8.9796 8.9796 8.9796 8.9796 8.9796 8.9796 8.9796 8.9796 8.9796 8.9796 8.9796 8.9796 8.9796 8.9796 8.9796 8.9796 8.9796 8.9796 8.9796 8.9796 8.9796 8.9796 8.9796 8.9796 8.9796 8.9796 8.9796 8.9796 8.9796 8.9796 8.9796 8.9796 8.9796 8.9796 8.9796 8.9796 8.9796 8.9796 8.9796 8.9796 8.9796 8.9796 8.9796 8.9796 8.9796 8.9796 8.9796 8.9796 8.9796 8.9796 8.9796 8.9796 8.9796 8.9796 8.9796 8.9796 8.9796 8.9796 8.9796 8.9796 8.9796 8.9796 8.9796 8.9796 8.9796 8.9796 8.9796 8.9796 8.9	4496.6 4599.6 4599.6 4599.6 4599.6 4599.6 4599.6 4599.6 4599.6 4599.6 4599.6 4599.6 4599.6 4599.7 9 4599.7 9 4599.7 9 4599.7 9 4599.7 9 4599.7 9 4599.7 9 4599.7 9 4599.7 9 4599.7 9 4599.7 9 4599.7 9 4599.7 9 4599.7 9 4599.7 9 4599.7 9 4599.7 9 4599.7 9 4599.7 9 4599.7 9 4599.7 9 4599.7 9 4599.7 9 4599.7 9 4599.7 9 4599.7 9 4599.7 9 4599.7 9 4599.7 9 4599.7 9 4599.7 9 4599.7 9 4599.7 9 4599.7 9 4599.7 9 4599.7 9 4599.7 9 4599.7 9 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5  10  15  20  SiG NR Band (MHz)	2502.5  2505  2507.5  2510  n12_Uplink fi Low Frequency (MHz)  701.5	2567.5  2565  2562.5  2560  requency ban  Upper Frequency (MHz)  713.5	DFT-s OPSK  OP OPSK  OP OPSK  OP OPSK  OP OPSK  OF OPSK  OFT-S OPSK  OP OAM  DFT-S PIZ BPSK  DFT-S OPSK  OP OAM  OP OPSK  OP OAM  OP OPSK  OP OAM  OPT-S PIZ BPSK  OFT-S OPSK  OP OAM  OPT-S PIZ BPSK  OFT-S OPSK	23.04 22.76 22.13 21.48 23.40 23.24 23.25 22.38 21.72 23.13 22.94 22.60 22.26 22.26 21.82 21.75 22.96 22.26 21.82 21.65  Conducted Average (dBm) 23.08 23.06 22.74 22.31 22.31 22.31 22.31 22.46 22.72 23.38 23.38 23.31 22.57 22.46 22.01	23.93 23.82 23.65 23.02 22.37 24.29 23.95 23.44 23.27 22.61 24.02 23.83 23.49 23.17 22.64 23.85 23.85 23.85 23.85 22.71 22.64 23.85 23.85 23.85 23.85 23.85 23.85 24.02 25.07 26.07 26.07 27.07 28.07 28.07 29.07 29.07 29.07 29.07 20.07 20.07 20.07 20.07 20.07 20.07 20.07 20.07 20.07 20.07 20.07 20.07 20.07 20.07 20.07 20.07 20.07 20.07 20.07 20.07 20.07 20.07 20.07 20.07 20.07 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5 10 15 20 20 Bandwidth (MHz) 5 10	2502.5  2506  2507.5  2510  n12_Uplink fi Low Frequency (MHz)  701.5	2567.5  2565  2562.5  2560  requency ban Upper Frequency (MHz)  713.5	DFTs OPSK DFTs OAM OF OPSK OF OAM DFTS PIZ BPSK DFTS OAM CP OPSK OFTS OPSK DFTS OAM CP OPSK OFTS OAM CP OAM DFTS PIZ BPSK DFTS OAM CP OAM DFTS OAM DFTS OAM CP OPSK CP OAM DFTS OAM CP OPSK DFTS OAM DFTS OAM CP OPSK DFTS OAM DFTS OAM DFTS OAM CP OPSK	23.04 22.76 22.13 22.76 22.13 21.48 23.40 23.06 22.55 22.38 21.72 23.13 22.94 22.60 22.28 21.75 22.93 22.66 22.93 22.66 22.165  Conducted Average (dBm) 23.08 23.08 23.08 22.74 22.63 23.38 23.06 22.74 22.31 21.63 23.38 23.30 22.74 22.31 22.63 23.38 23.31 22.57 22.46 22.21 23.33	23.93 23.82 23.65 23.02 22.37 24.29 23.27 22.61 24.02 23.87 22.61 24.02 23.87 23.27 22.64 23.27 22.64 23.85 23.85 23.85 23.85 23.85 23.87 22.71 22.64 23.87 23.87 23.87 23.87 23.87 23.87 23.87 23.87 23.87 23.87 23.87 23.87 23.87 23.87 23.87 23.87 23.87 23.87 23.87 23.87 23.87 23.87 23.87 23.87 23.87 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10 15 20 SiG NR Band (MHz) 5	2502.5  2506  2507.5  2510  n12_Uplink fi Low Frequency (MHz)  701.5	2567.5  2565  2562.5  2560  requency ban Upper Frequency (MHz)  713.5	DFT-s OPSK  OP OPSK  OP OPSK  OP OPSK  OP OPSK  OF OPSK  OFT-S OPSK  OP OAM  DFT-S PIZ BPSK  DFT-S OPSK  OP OAM  OP OPSK  OP OAM  OP OPSK  OP OAM  OPT-S PIZ BPSK  OFT-S OPSK  OP OAM  OPT-S PIZ BPSK  OFT-S OPSK	23.04 22.76 22.13 21.48 23.40 23.24 23.25 22.38 21.72 23.13 22.94 22.60 22.26 22.26 21.82 21.75 22.96 22.26 21.82 21.65  Conducted Average (dBm) 23.08 23.06 22.74 22.31 22.31 22.31 22.31 22.46 22.72 23.38 23.38 23.31 22.57 22.46 22.01	23.93 23.82 23.65 23.02 22.37 24.29 23.95 23.44 23.27 22.61 24.02 23.83 23.49 23.17 22.64 23.85 23.85 23.85 23.85 22.71 22.64 23.85 23.85 23.85 23.85 23.85 23.85 24.02 25.07 26.07 26.07 27.07 28.07 28.07 29.07 29.07 29.07 29.07 20.07 20.07 20.07 20.07 20.07 20.07 20.07 20.07 20.07 20.07 20.07 20.07 20.07 20.07 20.07 20.07 20.07 20.07 20.07 20.07 20.07 20.07 20.07 20.07 20.07 20.07 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8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 8.979.4 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5G NR Band			d : 777 to 787 MHz									
Bandwidth (MHz)	Low Frequency (MHz)	Upper Frequency (MHz)	Modulation	Conducted Average (dBm)	ERP Average (dBm)	ERP Average (W)	99% BW (MHz)	99% BW (kHz)	Type of Emission			
	(MIL)	(111112)	DFT-s PI/2 BPSK	23.48	19.15	0.082	4.4812	4481.2	4M48G7W			
			DFT-s QPSK	23.39	19.06	0.081	4.4931	4493.1	4M49G7W			
5	779.5	784.5	DFT-s QAM	22.73	18.40	0.069	4.5079	4507.9	4M51D7W			
			CP QPSK	22.24	17.91	0.062	4.4931	4493.1	4M49G7W			
			CP QAM	21.71	17.38	0.055	4.5079	4507.9	4M51D7W			
			DFT-s PI/2 BPSK	24.03	19.70	0.093	8.9147	8914.7	8M91G7W			
	700	700	DFT-s QPSK	23.30	18.97	0.079	8.9262	8926.2	8M93G7W			
10	782	782	DFT-s QAM	22.39	18.06	0.064	8.96	8960.0	8M96D7W			
			CP QPSK CP QAM	22.23 21.53	17.90 17.20	0.062	8.9262 8.96	8926.2 8960.0	8M93G7W 8M96D7W			
C ND Dond	n14 Unlink 6	romional hom		21.53	17.20	0.052	0.90	0900.0	OWI90D/W			
OG IVK DAIIU	Low	Upper	d : 788 to 798 MHz	Conducted	ERP	ERP						
Bandwidth	Frequency	Frequency	Modulation	Average	Average	Average	99% BW	99% BW	Type of Emission			
(MHz)	(MHz)	(MHz)		(dBm)	(dBm)	(W)	(MHz)	(kHz)	31			
			DFT-s PI/2 BPSK	23.32	18.99	0.079	4.4812	4481.2	4M48G7W			
			DFT-s QPSK	23.20	18.87	0.077	4.4931	4493.1	4M49G7W			
5	790.5	795.5	DFT-s QAM	22.43	18.10	0.065	4.5079	4507.9	4M51D7W			
			CP QPSK	22.21	17.88	0.061	4.4931	4493.1	4M49G7W			
			CP QAM	22.17	17.84	0.061	4.5079	4507.9	4M51D7W			
			DFT-s PI/2 BPSK	23.00	18.67	0.074	8.9147	8914.7	8M91G7W			
	700	700	DFT-s QPSK	22.96	18.63	0.073	8.9262	8926.2	8M93G7W			
10	793	793	DFT-s QAM	22.55	18.22	0.066	8.96	8960.0	8M96D7W			
			CP QPSK	21.62	17.29	0.054	8.9262 8.96	8926.2	8M93G7W 8M96D7W			
C ND Dd	- OF H-11-1-6		CP QAM	21.43	17.10	0.051	8.96	8960.0	8M96D/W			
G NR Band			d: 1850 to 1915 Mi		FIDD	FIDD			ı			
Bandwidth	Low Frequency	Upper	Modulation	Conducted	EIRP	EIRP Average	99% BW	99% BW	Time of Emission			
(MHz)	(MHz)	Frequency (MHz)	Wodulation	Average (dBm)	Average (dBm)	(W)	(MHz)	(kHz)	Type of Emission			
	(WIF1Z)	(IVIITIZ)	DFT-s PI/2 BPSK	23.30	25.69	0.371	4.5101	4510.1	4M51G7W			
			DFT-s QPSK	23.20	25.59	0.362	4.4986	4498.6	4M50G7W			
5	1852.5	1912.5	DFT-s QAM	22.66	25.05	0.320	4.4958	4495.8	4M50D7W			
	1002.0	1712.0	CP QPSK	22.24	24.63	0.290	4.4986	4498.6	4M50G7W			
			CP QAM	21.61	24.00	0.251	4.4958	4495.8	4M50D7W			
			DFT-s PI/2 BPSK	23.37	25.76	0.377	8.9638	8963.8	8M96G7W			
			DFT-s QPSK	23.27	25.66	0.368	8.9711	8971.1	8M97G7W			
10	1855	1910	DFT-s QAM	23.05	25.44	0.350	8.9587	8958.7	8M96D7W			
			CP QPSK	22.56	24.95	0.313	8.9711	8971.1	8M97G7W			
						CP QAM	21.97	24.36	0.273	8.9587	8958.7	8M96D7W
			DFT-s PI/2 BPSK	23.44	25.83	0.383	13.463	13463.0	13M5G7W			
			DFT-s QPSK	23.43	25.82	0.382	13.441	13441.0	13M4G7W			
15	1857.5	1907.5	DFT-s QAM	22.97	25.36	0.344	13.479	13479.0	13M5D7W			
			CP QPSK	21.94	24.33	0.271	13.441	13441.0	13M4G7W			
			CP QAM	21.48	23.87	0.244	13.479	13479.0	13M5D7W			
			DFT-s PI/2 BPSK	23.27	25.66	0.368	17.901	17901.0	17M9G7W			
			DFT-s QPSK	23.20	25.59	0.362	17.932	17932.0	17M9G7W			
20	1860	1905	DFT-s QAM CP QPSK	22.92	25.31	0.340	17.941 17.932	17941.0 17932.0	17M9D7W			
			CP QAM	22.16 21.90	24.55 24.29	0.269	17.932	17932.0	17M9G7W 17M9D7W			
EC ND Dond	m2/ Dort00o	Unlink from a			24.27	0.207	17.741	17741.0	1710170770			
OG IVK DAITU	Low	Upper	ency band : 814 to 8	Conducted	ERP	ERP			1			
Bandwidth	Frequency	Frequency	Modulation	Average	Average	Average	99% BW	99% BW	Type of Emission			
(MHz)	(MHz)	(MHz)	Wodulation	(dBm)	(dBm)	(W)	(MHz)	(kHz)	Type of Ellission			
	(WIT IZ)	(IVII IZ)	DFT-s PI/2 BPSK	23.36	19.03	0.080	4.4803	4480.3	4M48G7W			
			DFT-s QPSK	23.15	18.82	0.076	4.5147	4514.7	4M51G7W			
5	816.5	821.5	DFT-s QAM	22.65	18.32	0.068	4.5179	4517.9	4M52D7W			
			CP QPSK	22.03	17.70	0.059	4.5147	4514.7	4M51G7W			
	l	l	CP QAM	21.92	17.59	0.057	4.5179	4517.9	4M52D7W			
			DFT-s PI/2 BPSK	23.03	18.70	0.074	8.9497	8949.7	8M95G7W			
	l	1	DFT-s QPSK	22.95	18.62	0.073	8.9511	8951.1	8M95G7W			
10	819	819	DFT-s QAM	22.16	17.83	0.061	8.9626	8962.6	8M96D7W			
			CP QPSK	21.32	16.99	0.050	8.9511	8951.1	8M95G7W			
			CP QAM	21.31	16.98	0.050	8.9626	8962.6	8M96D7W			
5G NR Band			d: 824 to 849 MHz									
Bandwidth	Low	Upper		Conducted	ERP	ERP	99% BW	99% BW				
(MHz)	Frequency	Frequency	Modulation	Average	Average	Average	(MHz)	(kHz)	Type of Emission			
, ,	(MHz)	(MHz)	DET - DUA DDCK	(dBm)	(dBm)	(W)			AMEACTAL			
	l	l	DFT-s PI/2 BPSK	23.09 22.98	21.22	0.132	4.5091 4.4958	4509.1 4495.8	4M51G7W 4M50G7W			
5	826.5	846.5	DFT-s QPSK DFT-s QAM	22.98	20.47	0.129	4.4958	4532.1	4M53D7W			
J.	020.0	0.040	CP QPSK	22.34	20.47	0.111	4.5321	4532.1	4M53D7W 4M50G7W			
	l	l	CP QPSK CP QAM	21.28	19.41	0.113	4.4958	4532.1	4M53D7W			
	<del>                                     </del>	<b> </b>	DFT-s PI/2 BPSK	23.50	21.63	0.146	8.974	8974.0	8M97G7W			
	l	l	DFT-s QPSK	23.46	21.59	0.144	8.9656	8965.6	8M97G7W			
10	829	844	DFT-s QAM	22.65	20.78	0.120	9.0019	9001.9	9M00D7W			
		1	CP QPSK	21.98	20.11	0.103	8.9656	8965.6	8M97G7W			
	l	1	CP QAM	21.26	19.39	0.087	9.0019	9001.9	9M00D7W			
	i e	i e	DFT-s PI/2 BPSK	23.20	21.33	0.136	13.449	13449.0	13M4G7W			
	l	l	DFT-s QPSK	23.18	21.31	0.135	13.459	13459.0	13M5G7W			
15	831.5	841.5	DFT-s QAM	22.65	20.78	0.120	13.441	13441.0	13M4D7W			
	1	1	CP QPSK	22.31	20.44	0.111	13.459	13459.0	13M5G7W			
				21.67	19.80	0.095	13.441	13441.0	13M4D7W			
			CP QAM	21.07								
			DFT-s PI/2 BPSK	23.06	21.19	0.132	17.893	17893.0	17M9G7W			
					21.19 21.17		17.893 17.896					
20	834	839	DFT-s PI/2 BPSK DFT-s QPSK DFT-s QAM	23.06 23.04 22.73	21.19 21.17 20.86	0.132 0.131 0.122	17.893 17.896 17.949	17893.0 17896.0 17949.0	17M9G7W 17M9G7W 17M9D7W			
20	834	839	DFT-s PI/2 BPSK DFT-s QPSK	23.06 23.04	21.19 21.17	0.132 0.131	17.893 17.896	17893.0 17896.0	17M9G7W 17M9G7W			

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非只有的用,他都是好用属對個對文學具有書,同時他學具屬是例的子。未都些主權大同事而雖可,不可如以複劃。

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Page: 8 of 32

FCC FC ND I	Donal n.41 I Inl	ink from con or	hand - 240/ to 2//	OO AALLa					
	Low	Upper Upper	/ band : 2496 to 269	Conducted	FIRP	FIRP			
Bandwidth (MHz)	Frequency (MHz)	Frequency (MHz)	Modulation	Average (dBm)	Average (dBm)	Average (W)	99% BW (MHz)	99% BW (kHz)	Type of Emission
	(IVITIZ)	(IVITZ)	DFT-s PV2 BPSK	22.86	23.75	0.237	8.6361	8636.1	8M64G7W
			DFT-s QPSK	22.80	23.69	0.234	8.6512	8651.2	8M65G7W
10	2501.01	2501.01 2685	DFT-s QAM	22.40	23.29	0.213	8.6503	8650.3	8M65D7W
			CP QPSK	21.91	22.80	0.191	8.6512	8651.2	8M65G7W
			CP QAM	21.44	22.33	0.171	8.6503	8650.3	8M65D7W
			DFT-s PV2 BPSK	22.94	23.83	0.242	12.973	12973.0	13M0G7W
			DFT-s QPSK	22.92	23.81	0.240	12.945	12945.0	12M9G7W
15	2503.5	2682.48	DFT-s QAM	22.36	23.25	0.211	12.953	12953.0	13M0D7W
			CP QPSK	22.00	22.89	0.195	12.945	12945.0	12M9G7W
			CP QAM	21.59	22.48	0.177	12.953	12953.0	13M0D7W
			DFT-s PV2 BPSK	22.82	23.71	0.235	17.907	17907.0	17M9G7W
			DFT-s QPSK	22.79	23.68	0.233	17.961	17961.0	18M0G7W
20	2506.02	2679.99	DFT-s QAM	22.46	23.35	0.216	17.942 17.961	17942.0 17961.0	17M9D7W
			CP QPSK CP QAM	22.07 21.37	22.96	0.168	17.961	17961.0	18M0G7W 17M9D7W
		L .			22.26	0.168	17.942	17942.0	1/M9D/W
6 NR Band	n66_Uplink fi		d: 1710 to 1780 Mi	Conducted	FIRP	FIRP			
Bandwidth	2011	Upper	Modulation				99% BW	99% BW	Type of Emissis
(MHz)	Frequency (MHz)	Frequency (MHz)	Modulation	Average (dBm)	Average (dBm)	Average (W)	(MHz)	(kHz)	Type of Emission
	(IVII 12)	(IVIT1Z)	DFT-s PV2 BPSK	23.18	25.57	0.361	4.5115	4511.5	4M51G7W
			DFT-s QPSK	23.14	25.53	0.357	4.5175	4517.5	4M52G7W
5	1712.5	1777.5	DFT-s QAM	22.64	25.03	0.337	4.5187	4518.7	4M52D7W
Ü	1712.0	1777.0	CP QPSK	22.21	24.60	0.288	4.5175	4517.5	4M52G7W
			CP QAM	21.55	23.94	0.248	4.5187	4518.7	4M52D7W
			DFT-s PV2 BPSK	23.27	25.66	0.368	8.9524	8952.4	8M95G7W
			DFT-s QPSK	23.23	25.62	0.365	8.983	8983.0	8M98G7W
10	1715	1775	DFT-s QAM	22.93	25.32	0.340	8.9886	8988.6	8M99D7W
			CP QPSK	22.50	24.89	0.308	8.983	8983.0	8M98G7W
			CP QAM	21.95	24.34	0.272	8.9886	8988.6	8M99D7W
			DFT-s PV2 BPSK	23.35	25.74	0.375	13.456	13456.0	13M5G7W
			DFT-s QPSK	23.17	25.56	0.360	13.468	13468.0	13M5G7W
15	1717.5	1772.5	DFT-s QAM	22.74	25.13	0.326	13.444	13444.0	13M4D7W
			CP QPSK	22.40	24.79	0.301	13.468	13468.0	13M5G7W
			CP QAM	21.68	24.07	0.255	13.444	13444.0	13M4D7W
			DFT-s PV2 BPSK	23.18	25.57	0.361	17.89	17890.0	17M9G7W
20	1720	1770	DFT-s QPSK	23.09	25.48	0.353	17.916	17916.0 17932.0	17M9G7W
20	1720	1770	DFT-s QAM CP QPSK	22.87 22.17	25.26 24.56	0.336	17.932 17.916	17932.0	17M9D7W 17M9G7W
			CP QPSK CP QAM	21.86	24.35	0.266	17.910	17916.0	17M9G7W
C ND Dond	n71 Haliak 6	comucanou hon	d : 663 to 698 MHz	21.00	24.23	0.200	17.732	17732.0	1710170700
	Low	Upper	u : 003 tO 090 MITZ	Conducted	ERP	ERP			I
Bandwidth (MHz)	Frequency (MHz)	Frequency (MHz)	Modulation	Average (dBm)	Average (dBm)	Average (W)	99% BW (MHz)	99% BW (kHz)	Type of Emission
	(IVI∏Z)	(WIFIZ)	DFT-s PV2 BPSK	(aBm) 23.28	20.97	0.125	4.5134	4513.4	4M51G7W
			DFT-S PIZ BPSK	23.26	20.97	0.125	4.5051	4505.1	4M51G7W
5	665.5	695.5	DFT-s QAM	23.16	20.87	0.122	4.5085	4508.5	4M51D7W
3	003.3	695.5	CP QPSK	22.33	20.73	0.117	4.5053	4505.1	4M51G7W
			CP QAM	22.33	19.69	0.093	4.5085	4508.5	4M51D7W
							4.5085 8.959	4508.5 8959.0	4M51D7W 8M96G7W
			CP QAM	22.00	19.69	0.093			
10	668	693	CP QAM DFT-s PV2 BPSK DFT-s QPSK DFT-s QAM	22.00 23.29 23.08 22.58	19.69 20.98 20.77 20.27	0.093 0.125 0.119 0.106	8.959 8.9793 8.9899	8959.0 8979.3 8989.9	8M96G7W 8M98G7W 8M99D7W
10	668	693	CP QAM DFT-s PV2 BPSK DFT-s QPSK DFT-s QAM CP QPSK	22.00 23.29 23.08 22.58 22.24	19.69 20.98 20.77 20.27 19.93	0.093 0.125 0.119 0.106 0.098	8.959 8.9793 8.9899 8.9793	8959.0 8979.3 8989.9 8979.3	8M96G7W 8M98G7W 8M99D7W 8M98G7W
10	668	693	CP QAM  DFT-s PV2 BPSK  DFT-s QPSK  DFT-s QAM  CP QPSK  CP QAM	22.00 23.29 23.08 22.58 22.24 21.76	19.69 20.98 20.77 20.27 19.93 19.45	0.093 0.125 0.119 0.106 0.098 0.088	8.959 8.9793 8.9899 8.9793 8.9899	8959.0 8979.3 8989.9 8979.3 8989.9	8M96G7W 8M98G7W 8M99D7W 8M98G7W 8M99D7W
10	668	693	CP QAM DFT-s PV2 BPSK DFT-s QPSK DFT-s QAM CP QPSK CP QAM DFT-s PV2 BPSK	22.00 23.29 23.08 22.58 22.24 21.76 23.40	19.69 20.98 20.77 20.27 19.93 19.45 21.09	0.093 0.125 0.119 0.106 0.098 0.088 0.129	8.959 8.9793 8.9899 8.9793 8.9899 13.444	8959.0 8979.3 8989.9 8979.3 8989.9 13444.0	8M96G7W 8M98G7W 8M99D7W 8M98G7W 8M99D7W 13M4G7W
			CP OAM DFT-S PI/2 BPSK DFT-S QPSK DFT-S OAM CP QPSK CP QAM DFT-S PI/2 BPSK DFT-S QPSK	22.00 23.29 23.08 22.58 22.24 21.76 23.40 23.33	19.69 20.98 20.77 20.27 19.93 19.45 21.09 21.02	0.093 0.125 0.119 0.106 0.098 0.088 0.129 0.126	8.959 8.9793 8.9899 8.9793 8.9899 13.444 13.432	8959.0 8979.3 8989.9 8979.3 8989.9 13444.0 13432.0	8M96G7W 8M98G7W 8M99D7W 8M98G7W 8M99D7W 13M4G7W 13M4G7W
10	668	693 690.5	CP OAM DFT-S PV2 BPSK DFT-S OPSK DFT-S OAM CP OPSK CP OAM DFT-S PV2 BPSK DFT-S OSM DFT-S OAM DFT-S OAM	22.00 23.29 23.08 22.58 22.24 21.76 23.40 23.33 22.99	19.69 20.98 20.77 20.27 19.93 19.45 21.09 21.02 20.68	0.093 0.125 0.119 0.106 0.098 0.088 0.129 0.126 0.117	8.959 8.9793 8.9899 8.9793 8.9899 13.444 13.432 13.49	8959.0 8979.3 8989.9 8979.3 8989.9 13444.0 13432.0 13490.0	8M96G7W 8M98G7W 8M99D7W 8M98G7W 8M99D7W 13M4G7W 13M4G7W 13M5D7W
			CP OAM  DFT-S PV2 BPSK  DFT-S QPSK  DFT-S OAM  CP OPSK  CP OAM  DFT-S PV2 BPSK  DFT-S QPSK  DFT-S QPSK  DFT-S QPSK  DFT-S QPSK  CP QPSK	22.00 23.29 23.08 22.58 22.24 21.76 23.40 23.33 22.99 22.67	19.69 20.98 20.77 20.27 19.93 19.45 21.09 21.02 20.68 20.36	0.093 0.125 0.119 0.106 0.098 0.088 0.129 0.126 0.117 0.109	8.959 8.9793 8.9899 8.9793 8.9899 13.444 13.432 13.49	8959.0 8979.3 8989.9 8979.3 8989.9 13444.0 13432.0 13490.0	8M96G7W 8M98G7W 8M99D7W 8M98G7W 8M99D7W 13M4G7W 13M4G7W 13M5D7W 13M4G7W
			CP OAM DFT-S PV2 BPSK DFT-S QPSK DFT-S QPSK DFT-S QAM CP QPSK CP QAM DFT-S PV2 BPSK DFT-S QPSK DFT-S QPSK CP QAM	22.00 23.29 23.08 22.58 22.24 21.76 23.40 23.33 22.99 22.67 22.07	19.69 20.98 20.77 20.27 19.93 19.45 21.09 21.02 20.68 20.36 19.76	0.093 0.125 0.119 0.106 0.098 0.088 0.129 0.126 0.117 0.109	8.959 8.9793 8.9899 8.9793 8.9899 13.444 13.432 13.49 13.432 13.49	8959.0 8979.3 8989.9 8979.3 8989.9 13444.0 13432.0 13490.0 13432.0	8M96G7W 8M98G7W 8M99D7W 8M98G7W 8M99D7W 13M4G7W 13M4G7W 13M4G7W 13M4G7W 13M4G7W
			CP OAM DFT-S PIZ BPSK DFT-S OPSK DFT-S OAM CP OPSK CP OAM DFT-S PIZ BPSK DFT-S OPSK DFT-S OPSK DFT-S OPSK DFT-S OAM DFT-S OAM DFT-S OAM DFT-S PIZ BPSK CP OAM DFT-S PIZ BPSK	22.00 23.29 23.08 22.58 22.24 21.76 23.40 23.33 22.99 22.67 22.07 23.19	19.69 20.98 20.77 20.27 19.93 19.45 21.09 21.02 20.68 20.36 19.76 20.88	0.093 0.125 0.119 0.106 0.098 0.088 0.129 0.126 0.117 0.109 0.095 0.122	8.959 8.9793 8.9899 8.9793 8.9899 13.444 13.432 13.49 13.432 13.49 17.928	8959.0 8979.3 8989.9 8979.3 8989.9 13444.0 13432.0 13490.0 13432.0 13490.0 17928.0	8M96G7W 8M98G7W 8M99D7W 8M98G7W 8M99D7W 13M4G7W 13M4G7W 13M5D7W 13M5D7W 13M5D7W 17M9G7W
15	670.5	690.5	CP QAM DFT-S PI/2 BPSK DFT-S QPSK DFT-S QPSK CP QAM CP QPSK CP QAM DFT-S PI/2 BPSK DFT-S QPSK	22.00 23.29 23.08 22.58 22.24 21.76 23.40 23.33 22.99 22.67 22.07 23.19 23.15	19.69 20.98 20.77 20.27 19.93 19.45 21.09 21.02 20.68 20.36 19.76 20.88 20.84	0.093 0.125 0.119 0.106 0.098 0.088 0.129 0.126 0.117 0.109 0.095 0.122 0.121	8.959 8.9793 8.9899 8.9793 8.9899 13.444 13.432 13.49 17.928 17.928	8959.0 8979.3 8989.9 8979.3 8989.9 13444.0 13432.0 13490.0 13432.0 13490.0 17928.0	8M96G7W 8M98G7W 8M99D7W 8M99G7W 8M99D7W 13M4G7W 13M4G7W 13M5D7W 13M5D7W 13M5D7W 17M9G7W
			CP OAM DFT-S PIZ BPSK DFT-S OPSK DFT-S OAM CP OPSK CP OAM DFT-S PIZ BPSK DFT-S OPSK DFT-S OPSK DFT-S OPSK DFT-S OAM DFT-S OAM DFT-S OAM DFT-S PIZ BPSK CP OAM DFT-S PIZ BPSK	22.00 23.29 23.08 22.58 22.24 21.76 23.40 23.33 22.99 22.67 22.07 23.19	19.69 20.98 20.77 20.27 19.93 19.45 21.09 21.02 20.68 20.36 19.76 20.88	0.093 0.125 0.119 0.106 0.098 0.088 0.129 0.126 0.117 0.109 0.095 0.122	8.959 8.9793 8.9899 8.9793 8.9899 13.444 13.432 13.49 13.432 13.49 17.928	8959.0 8979.3 8989.9 8979.3 8989.9 13444.0 13432.0 13490.0 13432.0 13490.0 17928.0	8M96G7W 8M98G7W 8M99D7W 8M99G7W 8M99D7W 13M4G7W 13M4G7W 13M5D7W 13M5D7W 13M5D7W 13M5D7W

	Low	Upper		Conducted	EIRP	EIRP			
Bandwidth	Frequency	Frequency	Modulation	Average	Average	Average	99% BW	99% BW	Type of Emission
(MHz)	(MHz)	(MHz)		(dBm)	(dBm)	(W)	(MHz)	(kHz)	.,,,
			DFT-s PI/2 BPSK	23.21	23.62	0.230	8.666	8666.0	8M67G7W
			DFT-s QPSK	22.95	23.36	0.217	8.6396	8639.6	8M64G7W
10	3455.01	3544.98	DFT-s QAM	22.40	22.81	0.191	8.6684	8668.4	8M67D7W
			CP QPSK	22.12	22.53	0.179	8.6396	8639.6	8M64G7W
			CP QAM	21.45	21.86	0.153	8.6684	8668.4	8M67D7W
			DFT-s PI/2 BPSK	23.25	23.66	0.232	12.957	12957.0	13M0G7W
			DFT-s QPSK	23.05	23.46	0.222	12.94	12940.0	12M9G7W
15	3457.5	3542.49	DFT-s QAM	22.50	22.91	0.195	13.064	13064.0	13M1D7W
			CP QPSK	22.01	22.42	0.175	12.94	12940.0	12M9G7W
			CP QAM	21.53	21.94	0.156	13.064	13064.0	13M1D7W
	0 3460.02 3540		DFT-s PI/2 BPSK	23.06	23.47	0.222	17.934	17934.0	17M9G7W
			DFT-s QPSK	22.99	23.40	0.219	17.966	17966.0	18M0G7W
20		3540	DFT-s QAM	22.44	22.85	0.193	17.94	17940.0	17M9D7W
			CP QPSK	22.07	22.48	0.177	17.966	17966.0	18M0G7W
			CP QAM	21.64	22.05	0.160	17.94	17940.0	17M9D7W
G NR Band	n77_Part27_U	Jplink freque	ncy band : 3700 to 3	3980 MHz					
Bandwidth	Low	Upper		Conducted	EIRP	EIRP	99% BW	99% BW	
(MHz)	Frequency	Frequency	Modulation	Average	Average	Average	(MHz)	(kHz)	Type of Emission
(IVITIZ)	(MHz)	(MHz)		(dBm)	(dBm)	(W)	, ,	` '	
			DFT-s PI/2 BPSK	24.00	24.41	0.276	8.5611	8561.1	8M56G7W
			DFT-s QPSK	23.98	24.39	0.275	8.6682	8668.2	8M67G7W
10	3705	3975	DFT-s QAM	23.31	23.72	0.236	8.6578	8657.8	8M66D7W
			CP QPSK	22.55	22.96	0.198	8.6682	8668.2	8M67G7W
	CP QAM						8M66D7W		
			CP QAW	22.46	22.87	0.194	8.6578	8657.8	OWIDOD/W
			DFT-s PI/2 BPSK	22.46 24.11		0.283	12.931	8657.8 12931.0	12M9G7W
					22.87				
15	3707.52	3972.48	DFT-s PI/2 BPSK	24.11	22.87 24.52	0.283	12.931 13 12.94	12931.0	12M9G7W
15	3707.52	3972.48	DFT-s PI/2 BPSK DFT-s QPSK	24.11 23.98	22.87 24.52 24.39	0.283 0.275	12.931 13	12931.0 13000.0	12M9G7W 13M0G7W
15	3707.52	3972.48	DFT-s PI/2 BPSK DFT-s QPSK DFT-s QAM	24.11 23.98 23.56	22.87 24.52 24.39 23.97	0.283 0.275 0.249	12.931 13 12.94	12931.0 13000.0 12940.0	12M9G7W 13M0G7W 12M9D7W
15	3707.52	3972.48	DFT-s PI/2 BPSK DFT-s QPSK DFT-s QAM CP QPSK	24.11 23.98 23.56 22.67	22.87 24.52 24.39 23.97 23.08	0.283 0.275 0.249 0.203	12.931 13 12.94 13	12931.0 13000.0 12940.0 13000.0	12M9G7W 13M0G7W 12M9D7W 13M0G7W
15	3707.52	3972.48	DFT-s PV2 BPSK DFT-s QPSK DFT-s QAM CP QPSK CP QAM	24.11 23.98 23.56 22.67 22.10	22.87 24.52 24.39 23.97 23.08 22.51	0.283 0.275 0.249 0.203 0.178	12.931 13 12.94 13 12.94	12931.0 13000.0 12940.0 13000.0 12940.0	12M9G7W 13M0G7W 12M9D7W 13M0G7W 12M9D7W
15	3707.52 3710.01	3972.48 3969.99	DFT-s PI/2 BPSK DFT-s QPSK DFT-s QAM CP QPSK CP QAM DFT-s PI/2 BPSK	24.11 23.98 23.56 22.67 22.10 24.00	22.87 24.52 24.39 23.97 23.08 22.51 24.41	0.283 0.275 0.249 0.203 0.178 0.276	12.931 13 12.94 13 12.94 17.872	12931.0 13000.0 12940.0 13000.0 12940.0 17872.0	12M9G7W 13M0G7W 12M9D7W 13M0G7W 12M9D7W 12M9D7W 17M9G7W
			DFT-s PI/2 BPSK DFT-s QPSK DFT-s QAM CP QPSK CP QAM DFT-s PI/2 BPSK DFT-s QPSK	24.11 23.98 23.56 22.67 22.10 24.00 23.91	22.87 24.52 24.39 23.97 23.08 22.51 24.41 24.32	0.283 0.275 0.249 0.203 0.178 0.276 0.270	12.931 13 12.94 13 12.94 17.872 17.883	12931.0 13000.0 12940.0 13000.0 12940.0 17872.0 17883.0	12M9G7W 13M0G7W 12M9D7W 13M0G7W 13M0G7W 12M9D7W 17M9G7W

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

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SGS Taiwan Ltd.



Page: 9 of 32

## 1.5 Test Methodology of Applied Standards

FCC 47 CFR Part 2, 22H, 24E, 27C, Part 90 ANSI C63.26-2015 KDB971168 D01 Power Meas license Digital System v03r01 KDB412172 D01 Determining ERP and EIRP v01r01

## 1.6 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designa- tion number	IC CAB identifier				
		SAC 1						
		SAC 2						
		SAC 3						
	No 124 Wu Kung Dood Now Toingi	Conduction 1						
	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New	Conducted 1	TW0027					
	Taipei City, Taiwan.	Conducted 2	1 440027					
	raipei City, Taiwaii.	Conducted 3						
		Conducted 4						
		Conducted 5						
SGS Taiwan Ltd.		Conducted 6						
Central RF Lab.		Conduction C		TW3702				
(TAF code 3702)		SAC C						
		SAC D						
		SAC G						
	No 2 Koji 1et Pd. Cujeban District	Conducted A						
	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conducted B	TW0028					
	lauyuan Gity, Taiwan 333	Conducted C						
		Conducted D						
		Conducted E						
		Conducted F						
		Conducted G						

**Note:** Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.

### 1.7 Special Accessories

No special accessories were used during testing.

### 1.8 Equipment Modifications

result came out very similar.

There was no modifications incorporated into the EUT.

## 1.9 Radiated Emission Test Sites For Measurements From 9 kHz To 30 MHz

Radiated emission below 30MHz is measured in a 9m\*6m\*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site. There is a comparison data of both open-field test site and semi-Anechoic chamber, and the

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Page: 10 of 32

### SYSTEM TEST CONFIGURATION

#### 2.1 **EUT Configuration**

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

#### 2.2 **EUT Exercise**

The EUT (Transmitter) was operated in the continuous transmission mode employed with the simulator of the Base Station that fixates at test default channels to fix the Tx frequency which was for the purpose of the measurements.

#### 2.3 **Test Procedure**

#### 2.3.1 **Conducted Measurement at Antenna Port**

The EUT is placed on a table which is 0.8 m above ground plane. A low loss of RF cable was used to connect the antenna port of EUT to measurement equipment.

#### 2.3.2 Radiated Emissions (ERP/EIRP)

The EUT is placed on a turn table, for emission measurements below 1 GHz is 0.8 m above ground plane, for emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both Horizontal and Vertical. In order to find out the max. emission, the relative positions of this transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

#### Measurement Results Explanation Example 2.4

#### For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

#### Note:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

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Page: 11 of 32

## **Final Amplifier Voltage and Current Information:**

5G NR B	AND n2					
CP-OFDM_S	CS 15 kHz					
Test mode	DC voltage (V)	DC current (mA)				
Bandwidth:5MHz Mod:256QAM	3.8	459				
Bandwidth:10MHz Mod:256QAM	3.8	481				
Bandwidth:15MHz Mod:256QAM	3.8	476				
Bandwidth:20MHz Mod:256QAM	3.8	455				
5G NR B	AND n5	L				
CP-OFDM_S	CS 15 kHz					
Test mode	DC voltage (V)	DC current (mA)				
Bandwidth:5MHz Mod:256QAM	3.8	502				
Bandwidth:10MHz Mod:256QAM	3.8	486				
Bandwidth:15MHz Mod:256QAM	3.8	463				
Bandwidth:20MHz Mod:256QAM	3.8	471				
5G NR B	AND n7					
CP-OFDM_S	CS 15 kHz					
Test mode	DC voltage (V)	DC current (mA)				
Bandwidth:5MHz Mod:256QAM	3.8	452				
Bandwidth:10MHz Mod:256QAM	3.8	471				
Bandwidth:15MHz Mod:256QAM	3.8	469				
Bandwidth:20MHz Mod:256QAM	3.8	455				
5G NR BA	AND n12					
CP-OFDM_S	CS 15 kHz					
Test mode	DC voltage (V)	DC current (mA)				
Bandwidth:5MHz Mod:256QAM	3.8	446				
Bandwidth:10MHz Mod:256QAM	3.8	451				
Bandwidth:15MHz Mod:256QAM	3.8	473				
5G NR BA	AND n13					
CP-OFDM_S	CS 15 kHz					
Test mode	DC voltage (V)	DC current (mA)				
Bandwidth:5MHz Mod:256QAM	3.8	455				
Bandwidth:10MHz Mod:256QAM	3.8	482				
5G NR BA						
CP-OFDM_S		T				
Test mode	DC voltage (V)	DC current (mA)				
Bandwidth:5MHz Mod:256QAM	3.8	463				
Bandwidth:10MHz Mod:256QAM	3.8	424				

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Page: 12 of 32

5G NR BA	AND n25	
CP-OFDM_S		
Test mode	DC voltage (V)	DC current (mA)
Bandwidth:5MHz Mod:256QAM	3.8	457
Bandwidth:10MHz Mod:256QAM	3.8	462
Bandwidth:15MHz Mod:256QAM	3.8	433
Bandwidth:20MHz Mod:256QAM	3.8	439
5G NR BAND	n26 Part90s	
CP-OFDM_S	SCS 15 kHz	
Test mode	DC voltage (V)	DC current (mA)
Bandwidth:5MHz Mod:256QAM	3.8	456
Bandwidth:10MHz Mod:256QAM	3.8	461
5G NR BA	AND n26	
CP-OFDM_S	SCS 15 kHz	
Test mode	DC voltage (V)	DC current (mA)
Bandwidth:5MHz Mod:256QAM	3.8	468
Bandwidth:10MHz Mod:256QAM	3.8	455
Bandwidth:15MHz Mod:256QAM	3.8	482
Bandwidth:20MHz Mod:256QAM	3.8	486
5G NR B		
CP-OFDM_S	SCS 30 kHz	
Test mode	DC voltage (V)	DC current (mA)
Bandwidth:10MHz Mod:256QAM	3.8	472
Bandwidth:15MHz Mod:256QAM	3.8	479
Bandwidth:20MHz Mod:256QAM	3.8	461
5G NR B	AND n77	
CP-OFDM_S		
	DC voltage (V)	DC current (mA)
Bandwidth:10MHz Mod:256QAM	3.8	428
Bandwidth:15MHz Mod:256QAM	3.8	436
Bandwidth:20MHz Mod:256QAM	3.8	455
5G NR B		
	SCS 15 kHz	
	900 10 KHZ	
Test mode	DC voltage (V)	DC current (mA)
Test mode Bandwidth:5MHz Mod:256QAM	DC voltage (V) 3.8	466
Test mode Bandwidth:5MHz Mod:256QAM Bandwidth:10MHz Mod:256QAM	DC voltage (V) 3.8 3.8	466 452
Test mode Bandwidth:5MHz Mod:256QAM	DC voltage (V) 3.8	466

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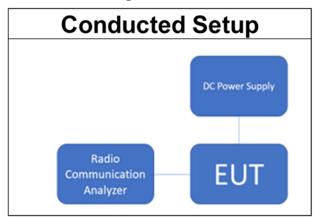
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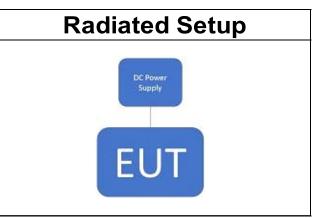


Page: 13 of 32

5G NR BAND n71												
CP-OFDM_SCS 15 kHz												
Test mode	DC voltage (V)	DC current (mA)										
Bandwidth:5MHz Mod:256QAM	3.8	453										
Bandwidth:10MHz Mod:256QAM	3.8	452										
Bandwidth:15MHz Mod:256QAM	3.8	494										
Bandwidth:20MHz Mod:256QAM	3.8	461										

#### 2.6 **Test Configuration**





Note: Radio Communication Analyzer is placed in remote side for radiated test.

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Page: 14 of 32

## SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§2.1046(a)	RF Power Output	Compliant
§22.913(a)(5) §24.232(c) §27.50(c)(9) §27.50(d)(4) §27.50(h)(2) §27.50(j)(3) §27.50(k)(3) §90.542(a)(6) §90.635(b)	ERP/ EIRP measurement	Compliant
§2.1049(h)	99% & 26dB Occupied Bandwidth	Compliant
§2.1051 §22.917(a)(b) §24.238(a) §27.53(g) §27.53(h) §27.53(l)(2) §27.53(m)(4)(6) §27.53(n)(2) §90.691(a) §90.210(n) §90.543(e)(2)~(5)	Out of Band Emissions at Antenna Terminals and Band Edge / Emission mask requirements	Compliant
§2.1053 §22.917(a)(b) §24.238(a)(b) §27.53(g) §27.53(h) §27.53(l)(2) §27.53(m)(4) §27.53(n)(2) §90.543 (f) §90.691(a)	Field Strength of Spurious Radiation	Compliant
§22.913(d) §24.232(d) §27.50(d)(5) §27.50(j)(4) §27.50 (k)(4)	Peak to Average Ratio	Compliant
§2.1055(a)(1) §22.355 §24.235 §27.54 §90.539 (e)	Frequency Stability	Compliant

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Page: 15 of 32

## **DESCRIPTION OF TEST MODES**

#### The Worst Test Modes and Channel Details

- 1. The EUT has been tested under operating condition.
- 2. Pre-Scan has been conducted to determine the worst-case scenario from all possible combinations among available modulations, data rates and antenna ports, the worst case configurations listed below for the final test.
- 3. The NR power / Bandwidth / Channels of n78 is the same as that of n77, so the test items will be covered by n77.

4. The field strength of radiated emission was measured as the EUT positioned in different orthogonal planes (E1/E2/H) based on actual usage of the EUT to pre-scan the emissions for determining the worst case scenario.

5G NR Band	SCS	Test Channel	Channel Bandwidth	Modulation	Resource Blo	ock Allocation
			(MHz)		RBs allocated	RB Offset
n2	15K	372000	20	DFT-s PI/2 BPSK	1	1
n2	15K	376000	20	DFT-s PI/2 BPSK	1	1
n2	15K	380000	20	DFT-s PI/2 BPSK	1	1
n5	15K	166300	15	DFT-s PI/2 BPSK	1	1
n5	15K	167300	15	DFT-s PI/2 BPSK	1	1
n5	15K	168300	15	DFT-s PI/2 BPSK	1	1
n7	15K	501000	10	DFT-s PI/2 BPSK	1	1
n7	15K	507000	10	DFT-s PI/2 BPSK	1	1
n7	15K	513000	10	DFT-s PI/2 BPSK	1	1
n12	15K	140800	10	DFT-s PI/2 BPSK	1	1
n12	15K	141500	10	DFT-s PI/2 BPSK	1	1
n12	15K	142200	10	DFT-s PI/2 BPSK	1	1
n13	15K	158600	10	DFT-s PI/2 BPSK	1	1
n14	15K	158100	5	DFT-s PI/2 BPSK	1	1
n14	15K	158600	5	DFT-s PI/2 BPSK	1	1
n14	15K	189100	5	DFT-s PI/2 BPSK	1	1
n25	15K	371500	15	DFT-s PI/2 BPSK	1	1
n25	15K	376500	15	DFT-s PI/2 BPSK	1	1
n25	15K	381500	15	DFT-s PI/2 BPSK	1	1
n26 Part 90S	15K	163300	5	DFT-s PI/2 BPSK	1	1
n26_Part 90S	15K	163800	5	DFT-s PI/2 BPSK	1	1
n26 Part 90S	15K	164300	5	DFT-s PI/2 BPSK	1	1
n26	15K	165800	10	DFT-s PI/2 BPSK	1	1
n26	15K	167300	10	DFT-s PI/2 BPSK	1	1
n26	15K	168800	10	DFT-s PI/2 BPSK	1	1
n66	15K	343500	15	DFT-s PI/2 BPSK	1	1
n66	15K	349000	15	DFT-s PI/2 BPSK	1	1
n66	15K	354500	15	DFT-s PI/2 BPSK	1	1
n71	15K	134100	15	DFT-s PI/2 BPSK	1	1
n71	15K	136100	15	DFT-s PI/2 BPSK	1	1
n71	15K	138100	15	DFT-s PI/2 BPSK	1	1
n41	30K	500700	15	DFT-s PI/2 BPSK	1	1
n41	30K	501504	15	DFT-s PI/2 BPSK	1	1
n41	30K	518604	15	DFT-s PI/2 BPSK	1	1
n41	30K	536496	15	DFT-s PI/2 BPSK	1	1
n77	30K	630500	15	DFT-s PI/2 BPSK	1	1
n77	30K	633334	15	DFT-s PI/2 BPSK	1	1
n77	30K	636166	15	DFT-s PI/2 BPSK	1	1
n77	30K	647168	15	DFT-s PI/2 BPSK	1	1
n77	30K	656000	15	DFT-s PI/2 BPSK	1	1
n77	30K	664832	15	DFT-s PI/2 BPSK	1	1

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Page: 16 of 32

## 4.2 Measurement Configuration

Test Items   Band     Test Channel     Test Items   Early     Test Items   Bandwidth (MHz)   Solution   Solu												D	1. 1.11. /										DET	OFF	.,		1.1.5	0D 0E	DIA				D #		
	Test Items	Band	1 e	st Chan	nel							Band										lodulatio	_	_	_		_	_	-	Eden	Edan			lance	Cultur
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Professional Pro	CCDF		V	٧	V	٧	٧	٧	٧																٧										V
Mathematical Content	Radiated Emission		٧	٧	٧				V												٧											V			
Part			Te	st Chan	nel							Band	dwidth (	MHz)							M	lodulatio	n DFT	-s-OFD	M	Mor	dulation	CP-OF	DM			RI	B#		
Ominification of the content of the	Test Items	Band	L	М	Н	5	10	15	20	25	30	35	40	45	50	60	70	80	90	100	BPSK	QPSK	16	64		QPSK									
Marian	Conducted Device																													IKB_Lett	TRB_RIGHT				
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Tellium billion billio	Radiated Emission	1	V	٧				_													٧											٧			
Tellium billion billio			Te		_							Band	dwidth (	MHz)							-	lodulatio	n DFT	-s-OFD	M	Moi	dulation	CP-OF	DM				B#		
Part	Test Items	Band		T	Γ	_	40	45		05	20	25	40	45			70	00	00	400	DDCV	oncu	16	64	256	oncu	16	64	256	Edge	Edge	Inner	Inner	Inner	Outer
The contact of the co			L	IVI	Н	5	10	15	20	25	30	აზ	40	45	50	οU	70	σU	90	100	вrsк	UPSK	QAM	QAM		UP3K									
Maria Members   Maria Member			V	_	٧	٧	٧	٧	٧												٧	٧	٧	٧	٧		٧	V	٧			V	٧	V	
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Part				_	_	_	_		-												V											V			
Test here.    Send			_			V	-	V	v												1/				·							V			v
Part	reduced Employ		_				_					Rano	lwidth (	MH-7)							=	lodulatio	n DET	s-OFD	M	Mor	dulation	CD.OF	DM				R #		
Condicided Proper   Cond	Test Items	Band	10																				_	_	_		_	_	_	Edgo	Edgo			Innor	Outor
Property Stability   Propert			L	М	Н	5	10	15	20	25	30	35	40	45	50	60	70	80	90	100	BPSK	QPSK	QAM	QAM		QPSK									
Condicide Proper Prop	Conducted Power		٧	٧	٧	٧	٧	٧													٧	٧	٧	٧	٧	٧	٧	V	٧			V	٧	٧	V
Markade   Mark	Freqency Stability			٧				٧																		٧									V
Mode	Occupied Bandwidth		V	٧	V	٧	٧	٧													٧	٧	٧	٧	٧										V
Mask Conducted Emission   COPF   CONDUCTED	Bandedge	12	٧		٧	٧	v	٧													٧					ν				V	V				V
Composition																																			
Pacific			_	_				_													٧											V			
Test liters						٧	_	V																	٧										V
Test Items  Band  L M H S 10 15 20 25 30 35 40 45 50 60 70 80 90 100 BPSK OPSK OPSK OPSK OPSK OPSK OPSK OPSK O	Radiated Emission		_		_		٧							<u> </u>							=														
Conducted Power   Conducted Power   Conducted Power   Conducted Emission   Conducted Emission   Conducted Power   Conducted Power   Conducted Power   Conducted Power   Conducted Power   Conducted Power   Conducted Emission   Conducted Emission   Conducted Power   Conducted Power   Conducted Power   Conducted Emission   Conducted Emission   Conducted Power   Conducted Power   Conducted Emission   Conduct			Tes	st Char	nnel							Band	width (	MHz)							Mo	dulatio	n DFT	-s-OF	DM	Mod	ulation	CP-0	FDM		- Lann				
Conducted Power   Powe	Test Items	Band	L	М	Н	5	10	15	20	25	30	35	40	45	50	60	70	80	90	100	BPSK	QPSK				QPSK									
Presidency Stability																														1RB_Left	1		1		
Conducted Emission   Conducted Prover   Frequency Stability   Conducted Prover   Conducted Final Provency Stability   Conducted Prover   Conducted Emission   Conducted Final Provency Stability   Conducted Final Provency Stability   Conducted Final Provency Stability   Conducted Final Provency Stability   Conducted Emission   Conducted Final Provency Stability   Conducted Final Provency Provency Stability   Conducted Final Provency Stability   Conducted Final Provency Provenc			V		٧	٧	-														٧	V	V	٧	٧	_	V	V	V			V	V	V	
Bandedge				_																						٧									
Mask   Conducted Emission   CCDF   V   V   V   V   V   V   V   V   V	-		_	٧	_																	V	V	V	٧										
Mask Conducted Emission CCDF Radiated Emission  Test Items  Band  L M H 5 10 15 20 25 30 35 40 45 50 60 70 80 90 100 BPSK QPSK   16 64 256 QAM		13	V		٧	٧	V														٧					٧				٧	V				V
V   V   V   V   V   V   V   V   V   V																																			
Radialed Emission					-																٧											V			
Test Items   Band     Test Channel     Test Channel   Section			_			٧	_																		٧										٧
Test items Band  L M H 5 10 15 20 25 30 35 40 45 50 60 70 80 90 100 BPSK QPSK 16 64 256 QAM	Radiated Emission		٧	٧	V		V														_											V			
L M H S 10 15 20 25 30 35 40 45 50 60 70 80 90 100 BPSK OPSK OAM QAM QAM QAM QAM QAM RB_Left   TRB_righ Full Full Full Full Full Full Full Ful			Tes	st Char	nnel							Band	width (	MHz)							Mo	dulatio	n DFT	-s-OFI	DM	Mod	ulation	CP-0	FDM			RI			
V	Test Items	Band		М	Н	5	10	15	20	25	30	35	40	45	50	60	70	80	90	100	BPSK	QPSK				QPSK					1RB Rinh				
Frequency Stability Occupied Bandwidth Bandedge Mask Conducted Emission CCDF    V   V   V   V   V   V   V   V   V								.5	20	2.0	50	-00	70	.5	50	-50	,0		,0	.50										1RB_Left	t		t t	Full	
Occupied Bandwidth Bandedge Mask Conducted Emission CCDF			٧		٧	٧															٧	٧	٧	٧	٧		٧	٧	٧			V	V	V	
Name				٧			٧																			٧									
Mask Conducted Emission CCDF	Occupied Bandwidth		٧	٧	٧	٧	٧														٧	٧	٧	٧	٧										٧
Mask	Bandedge	14	V		٧	٧	٧														٧					٧				٧	٧				٧
CCDF v v v v v v v v v v v v v v v v v v v	Mask	]																																	
			V	٧	٧	٧	٧														٧											V			
Radiated Emission v v v v v v v v v v v v v v v v v v v	CCDF		٧	٧	٧	٧	٧																		٧										٧
	Radiated Emission		V	٧	٧	٧															٧											V			

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Page: 17 of 32

			_																															
		Te	st Chan	nel							Band	lwidth (1	ИНz)							М	lodulatio	n DFT-	s-OFDI	И	Mo	dulation	CP-OF	-			R	B#		
Test Items	Band	L	М	Н	5	10	15	20	25	30		40	45	50	60	70	80	90	100	BPSK	QPSK	16 QAM	64 QAM	256 QAM	QPSK	16 QAM	64 QAM	256 QAM	Edge 1RB_Left	Edge 1RB_Right	Inner 1RB_Left	Inner 1RB_Right	Inner Full	Outer Full
Conducted Power		٧	٧	V	٧	٧	V	V												٧	٧	V	V	V	٧	V	V	V	IKD_Leit	IKB_KIGIII	V V	V V	V	V
Frequency Stability	1		٧				Ė	v																	v							Ė		٧
Occupied Bandwidth		v	٧	V	٧	٧	٧	٧												٧	٧	٧	٧	٧										٧
Bandedge	25	٧		V	٧	٧	V	V												٧					٧				V	٧				٧
Mask Conducted Emission					,:	,.	-	L.																										
Conducted Emission CCDF		v	v	v	V	v	V	v												٧				v							V			٧
Radiated Emission		v	v	v	Ť	Ť	v	Ť												٧				Ė							V			Ė
		Te	st Chan	nel							Band	lwidth (1	ЛНz)							М	lodulatio	n DFT-	s-OFDI	И	Moi	dulation	CP-OF	DM			R	B#		<u>'</u>
Test Items	Band	L	М	Н	5	10	15	20	25	30		40	45	50	60	70	80	90	100	BPSK	QPSK	16	64	256	QPSK	16	64	256	Edge	Edge	Inner	Inner	Inner	Outer
Conducted Power		V				V													- 11	٧	٧	QAM v	QAM v	QAM v		QAM v	QAM v	QAM v	1RB_Left	1RB_Right	1RB_Left v	1RB_Right	Full v	Full
Frequency Stability		V	V	V	٧	v														V	V	V	V	·	V	V	v	Ť			V	· ·	V	v
Occupied Bandwidth		V	٧	٧	٧	٧														٧	٧	٧	V	٧										V
Bandedge	26 Part90s	V		٧	٧	٧														٧					٧				٧	٧				٧
Mask	201 011/03																																	
Conducted Emission CCDF		V	v	V	٧	٧														٧											V			
Radiated Emission		V	v	v	V	٧														v				٧							v			ν
reduced Emosor		$\vdash$	st Chan	_	Ė						Band	lwidth (N	ИНz)								lodulatio	n DFT-	s-OFDI	И	Moi	dulation	CP-OF	DM				B#		
Test Items	Band		М		-	10	15	20	25	20		40			/0	70	00	00	100	BPSK	ODCV	16	64	256	ODCK	16	64	256	Edge	Edge	Inner	Inner	Inner	Outer
		L		Н	5	10	15	20	25	30		40	45	50	60	70	80	90	100			QAM	QAM	QAM	QPSK	QAM	QAM	QAM	1RB_Left	1RB_Right	1RB_Left	1RB_Right	Full	Full
Conducted Power		٧	٧	V	٧	٧	V	V												٧	٧	٧	٧	٧	٧	٧	٧	٧			V	٧	V	٧
Frequency Stability Occupied Bandwidth	ł	V	v	v	v	v	v	v												ν	v	v	v	V	٧									v
Bandedge		v		v	v	v	v	v												v		Ď		·	v				v	٧				v
Mask	26																																	
Conducted Emission		٧	٧	٧	٧	٧	V	V												٧											V			
CCDF		٧	٧	٧	٧	٧	٧	v																٧										v
Radiated Emission		V	V	V		٧					D		41.							٧		DET	OFF			1.1.7	00.05	DIA			V	D. /		
Test Items	Band	le	st Chan	nel			_				Band	lwidth (1	ИНZ)			_		_		М	lodulatio				Moi	dulation		-	E los	E4		B#		0.1
TOSTIGITO	Duna	L	M	Н	5	10	15	20	25	30	35	40	45	50	60	70	80	90	100	BPSK	QPSK	16 QAM	64 QAM	256 QAM	QPSK	16 QAM	64 QAM	256 QAM	Edge 1RB_Left	Edge 1RB_Right	Inner 1RB_Left	Inner 1RB_Right	Inner Full	Outer Full
Conducted Power		٧	٧	٧		٧	٧	V												٧	ν	٧	٧	٧	٧	٧	٧	٧			V	٧	٧	ν
Frequency Stability			٧																						٧									٧
Occupied Bandwidth  Bandedge	l	v	٧	v		٧	V	V												٧	٧	V	V	٧										٧
Mask	41	v		v		v	v	V												v					v				V	V				٧
Conducted Emission		V	٧	V		v	v	v												٧											v			
CCDF		٧	٧	٧		٧	٧	v																٧										ν
Radiated Emission		٧	٧	V			٧													٧											V			
Test Items	Band	Te	st Chan	nel							Band	lwidth (1	ИНz)							М	lodulatio				Moi	dulation	_	_				B#		
restriens	bdIIU	L	М	Н	5	10	15	20	25	30	35	40	45	50	60	70	80	90	100	BPSK	QPSK	16 QAM	64 QAM	256 QAM	QPSK	16 QAM	64 QAM	256 QAM	Edge 1RB_Left	Edge 1RB_Right	Inner 1RB_Left	Inner 1RB_Right	Inner Full	Outer Full
Conducted Power		٧	٧	٧	٧	٧	V	v												٧	٧	٧	٧	٧	v	٧	٧	٧			V	V	٧	ν
Freqency Stability			٧																						٧									٧
Occupied Bandwidth		٧	٧	V	٧	v	V	V												٧	٧	V	V	٧										٧
Bandedge Mask	66	V		V	٧	٧	٧	V												٧					٧				V	V				V
Conducted Emission		V	v	V	v	v	v	v												v											v			
CCDF		V	v	V	٧	v	v	v																٧										v
Radiated Emission		٧	٧	V			٧													٧											V			
		Te	st Chan	nel			_				Band	lwidth (N	ЛНz)							М	lodulatio				Moi	dulation	_	_				B#		
Test Items	Band	L	М	Н	5	10	15	20	25	30		40	45	50	60	70	80	90	100	BPSK	QPSK	16 QAM	64 QAM	256 QAM	QPSK	16 QAM	64 QAM	256 QAM	Edge 1RB_Left	Edge 1RB_Right	Inner 1RB_Left	Inner 1RB_Right	Inner Full	Outer Full
Conducted Power		V	٧	V	٧	٧	٧	V												٧	٧	V	V	V	٧	V	V	V	Loi	rugitt	V V	v v	V	V
Frequency Stability			٧					V																	٧									٧
Occupied Bandwidth		٧	٧	٧	٧	٧	٧	٧												٧	٧	٧	٧	٧										ν
Bandedge	71	V		V	٧	٧	V	V												٧					٧				V	٧				V
Mask Conducted Emission	1	v	v	v	v	v	v	v												ν											V			
CCDF		v	v	v	v	v	v	v												V				٧							v			v
Radiated Emission	L	٧	٧	V			V													٧											V			
		Te	st Chan	nel							Band	lwidth (N	ИНz)							М	lodulatio	n DFT-	s-OFDI	1	Moi	dulation	CP-OF	DM			R	B#		
Test Items	Band	L	М	Н	5	10	15	20	25	30	35	40	45	50	60	70	80	90	100	BPSK	QPSK	16	64	256	QPSK	16	64	256	Edge	Edge	Inner	Inner	Inner	Outer
Conducted Dog																			-			QAM		QAM		QAM	QAM	QAM	1RB_Left	1RB_Right	1RB_Left	1RB_Right	Full	Full
Conducted Power Frequency Stability	1	V	V	V		٧	V	v												٧	٧	V	٧	٧	V	٧	V	٧			V	V	V	v
Occupied Bandwidth		V	٧	V		٧	v	v												٧	٧	٧	٧	٧										v
	1	v		V		٧	٧	v																										
Bandedge	77																-												V	٧		1		V
Mask	77	·																		٧					٧				V					
Mask Conducted Emission	77	V	٧	V		٧	v	V												v					V				V	V	٧			
Mask	77		v v	V V		v	v v	v																٧	V				V	V	v			v

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Page: 18 of 32

## **MEASUREMENT UNCERTAINTY**

Test Items	Und	certair	nty
RF Power Output	+/-	0.97	dB
ERP/ EIRP measurement	+/-	2.15	dB
ERP/ EIRP Measurement	+/-	2.15	dB
Emission Bandwidth	+/-	1.38	Hz
Out of Band Emissions at Antenna Terminals and Band Edge	+/-	0.77	dB
Peak to Average Ratio	+/-	0.97	dB
Frequency Stability vs. Temperature	+/-	1.48	Hz
Frequency Stability vs. Voltage	+/-	1.48	Hz
Temperature	+/-	0.6	°C
Humidity	+/-	3	%
DC / AC Power Source	+/-	1	%

Radiated Spurious Emission Measurement Uncertainty												
	+/-	1.89	dB	9kHz~30MHz								
Polarization: Vertical	+/-	4.15	dB	30MHz - 1000MHz								
Polarization. Vertical	+/-	3.43	dB	1GHz - 18GHz								
	+/-	3.86	dB	18GHz - 40GHz								
	+/-	1.89	dB	9kHz~30MHz								
Polarization: Horizontal	+/-	4.02	dB	30MHz - 1000MHz								
Polarization. Horizontal	+/-	3.43	dB	1GHz - 18GHz								
	+/-	3.86	dB	18GHz - 40GHz								
	+/-	2	dB	33GHz-50GHz								
	+/-	1.59	dB	50GHz-60GHz								
Radiated Spurious Emission	+/-	1.7	dB	60GHz-90GHz								
	+/-	1.64	dB	90GHz-140GHz								
	+/-	3.83	dB	140GHz-220GHz								

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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Page: 19 of 32

## 6 MEASUREMENT EQUIPMENT USED

### 6.1 Conducted Measurement

Conducted Emission Test Site: Conducted 3												
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)							
4G High Pass Filter	WI	WHKX4.0	21	12/12/2023	12/11/2024							
4G High Pass Filter	WI	WHKX4.0	21	12/11/2024	12/10/2025							
Attenuator	Mini-Circuits	BW-S10W2+	8	12/12/2023	12/11/2024							
Attenuator	Mini-Circuits	BW-S10W2+	8	12/11/2024	12/10/2025							
DC Block	Mini-Circuits	BLK-18-S+	12	12/12/2023	12/11/2024							
DC Block	Mini-Circuits	BLK-18-S+	12	12/11/2024	12/10/2025							
DC Power Supply	Gwinstek	SPS-3610	GEV856750	08/14/2024	08/13/2025							
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY60240503	12/16/2024	12/15/2025							
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	04/24/2024	04/23/2025							
PXA Spectrum Analyzer	Keysight	N9030B	MY61330494	03/22/2024	03/21/2025							
PXA Spectrum Analyzer	Keysight	N9010B	MY60242392	12/24/2024	12/23/2025							
Radio Communication Analyzer	KEYSIGHT	E7515B	MY59321566	02/15/2024	02/14/2025							
Radio Communication Analyzer	KEYSIGHT	E7515B	MY60191250	02/17/2025	02/16/2026							
Splitter	RF-LAMBAD	RFLT2W1G18G	11-JSPF412-017	12/11/2024	12/10/2025							
Splitter	RF-LAMBAD	RFLT2W1G18G	11-JSPF412-017	12/12/2023	12/11/2024							
Temperature Chamber	Giant Force	GTH-150-40-CP-AR	MAA0512-018	06/05/2024	06/04/2025							
Test Software	SGS	Radio Test Software	Ver. 21	N.C.R	N.C.R							

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Page: 20 of 32

#### 6.2 **Radiated Measurement**

		Radiated Emissio	n Test Site: SAC 3		
				LAST CAL.	CAL DUE.
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	(mm/dd/yyyy)	(mm/dd/yyyy)
1G High Pass Filter	Micro-Tronics	HPM50108	32	12/11/2024	12/10/2025
2G High Pass Filter	Micro-Tronics	HPM50110	36	12/11/2024	12/10/2025
4G High Pass Filter	WI	WHKX4.0	22	12/11/2024	12/10/2025
Attenuator	Mini-Circuits	BW-S10W2+	16	12/11/2024	12/10/2025
Band Reject Filter 1700-2000	EWT	EWT-54-0038	M1	12/11/2024	12/10/2025
Band Reject Filter 2240-2700	WI	WRCJV2300/2700- 2240/2760-40/12SS	1	12/11/2024	12/10/2025
Band Reject Filter 3300-3900	WI	WRCGV3400/3800- 3300/3900-40/12SS	1	12/11/2024	12/10/2025
Band Reject Filter 800-1000	EWT	EWT-54-0037	M3R	12/11/2024	12/10/2025
Bi-log Antenna	SCHWARZBECK	VULB9168	1208	07/17/2024	07/16/2025
Bi-log Antenna	SCHWARZBECK	VULB9168	378	08/09/2024	08/08/2025
Coaxial Cables	EMCI+Huber Suhner	EMC107-SM-SM- 1000 +SUCOFLEX 104PEA +EMC107-SM-SM- 1500 +SUCOFLEX 106	RX Cable 9K-18G (221110+MY4251/4 PEA+221106+76096 /6)	08/30/2024	08/29/2025
Coaxial Cables	Huber Suhner	SUCOFLEX 102	RX Cable 18G-40G MY2630/2+805062/ 2	08/30/2024	08/29/2025
Coaxial Cables	Huber Suhner	SUCOFLEX 102+SUCOFLEX 106	TX Cable 30M-40G 23051/2+76096/6+2 2962/2	08/30/2024	08/29/2025
DC Power Supply	HILA	DP-3003N	11233K1019035	03/18/2024	03/17/2025
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY63440386	02/06/2024	02/05/2025
Horn Antenna	RF SPIN	DRH0844	LE2D05A0844	07/10/2024	07/09/2025
Horn Antenna	SCHWARZBECK	BBHA9120D	1441	09/23/2024	09/22/2025
Horn Antenna	SCHWARZBECK	BBHA9120D	603	05/15/2024	05/14/2025
Horn Antenna	SCHWARZBECK	BBHA9170	185	08/15/2024	08/14/2025
Network Analyzer	R&S	ZNB 40	101842	05/16/2024	05/15/2025
Pre-Amplifier	EMCI	EMC118A45SEE	980868	08/30/2024	08/29/2025
Pre-Amplifier	EMCI	EMC184045SEE	9080939	08/30/2024	08/29/2025
Pre-Amplifier	HP	8447D	2944A07676	08/30/2024	08/29/2025
Radio Communication Analyzer	KEYSIGHT	E7515B	MY59321561	07/11/2024	07/10/2025
Site Cal	SGS	SAC 3	N/A	08/30/2024	08/29/2025
Test Software	Audix	e3	Ver. 9.210616	N.C.R	N.C.R

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Page: 21 of 32

## STANDARD APPLICABLE

#### 7.1 **Maximum Output Power**

A base station simulator was used to establish communication with the EUT. Its parameters were set to transmit the maximum power on the EUT. The measured power in the radio frequency on the transmitter output terminals.

#### 7.1.1 **ERP/EIRP LIMIT**

According to FCC §2.1046

## FCC 22.913(a)

(5) mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

### FCC 24.232(c)

Mobile and portable stations are limited to 2 W EIRP.

### FCC 27.50(c)

(9) Control and mobile stations in the 698-746 MHz band are limited to 30 watts ERP.

## FCC 27.50(d)

(4) Mobile, and portable (hand-held) stations operating in the 1710-1755 MHz, 1695-1710 MHz and 1755-1780 MHz bands are limited to 1W EIRP.

### FCC 27, 50(h)

(2) Mobile and other user stations transmitting in the BRS and EBS bands are limited to 2 W EIRP.

### FCC 27, 50(j)

(3) Mobile and portable stations are limited to 1 Watt EIRP. Mobile and portable stations operating in these bands must employ a means for limiting power to the minimum necessary for successful communications.

### FCC 27, 50(k)

(3) Mobile devices are limited to 1Watt (30 dBm) EIRP. Mobile devices operating in these bands must employ a means for limiting power to the minimum necessary for successful communications.

### FCC 90.542(a)

(6) Control stations and mobile stations transmitting in the 758-768 MHz band and the 788-798 MHz band are limited to 30 watts ERP.

### FCC 90.635(b)

Mobile station is limited to 100W ERP

#### 7.2 **Occupied Bandwidth Measurement**

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power.

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Page: 22 of 32

#### **Out Of Band Emission At Antenna Terminals**

### FCC §22.917(a), §24.238(a), §27.53(h), §90.543(e)(3)

Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

## FCC §27.53(g)

Compliance for operations in the 600 MHz, 698-746 MHz, 746-758 MHz and the 776-788 MHz band with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be em-

- (2) On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB;
- (3) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than 76 + 10 log (P) dB in a 6.25 kHz band segment, for base and fixed stations;
- (4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations;

## FCC §27.53(h)

(h) AWS emission limits—(1) General protection levels. Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least  $43 + 10 \log_{10} (P) dB$ .

#### FCC §27.53(m) (4) (6)

For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

Measurement procedure. Compliance with these rules is based on the use of measurement nstrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed; for mobile digital stations, in the 1 megahertz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed, except when the 1 megahertz band is 2495-2496 MHz, in which case a resolution bandwidth of at least one percent may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 megahertz or 1 percent of emission bandwidth, as specified; or 1 megahertz or 2 percent for mobile digital stations, except in the band 2495-2496 MHz). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power. With respect to television operations, measurements must be

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Page: 23 of 32

made of the separate visual and aural operating powers at sufficiently frequent intervals to ensure compliance with the rules.

#### FCC §90.543 (e)

For operations in the 758-768 MHz and the 788-798 MHz bands, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

- (1) On all frequencies between 769-775 MHz and 799-805 MHz, by a factor not less than 76 + 10 log (P) dB in a 6.25 kHz band segment, for base and fixed stations.
- (2) On all frequencies between 769-775 MHz and 799-805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations.
- (3) On any frequency between 775-788 MHz, above 805 MHz, and below 758 MHz, by at least 43 + 10 log (P) dB.

## FCC §90.691 Emission mask requirements for EA-based systems

- (a) Out-of-band emission requirement shall apply only to the "outer" channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:
- (1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 116 Log10(f/6.1) decibels or 50 + 10 Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.
- (2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 43 + 10Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

#### 7.4 **Field Strength Of Spurious Radiation Measurement**

According to FCC §2.1053,

### FCC §22.917(a), §24.238(a), §27.53(h), §90.543(e)(3)

Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

### FCC §27.53(g)

Compliance for operations in the 600 MHz, 698-746 MHz, 746-758 MHz and the 776-788 MHz band with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

- (2) On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB;
- (3) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than 76 + 10 log (P) dB in a 6.25 kHz band segment, for base and fixed stations;
- (4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations;

#### FCC §90.543 (f)

For operations in the 758-775 MHz and 788-805 MHz bands, all emissions including harmonics in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for

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Page: 24 of 32

wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

#### FCC §27.53(h)(1)

(h) AWS emission limits—(1) General protection levels. Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least  $43 + 10 \log_{10} (P) dB$ .

### FCC §27.53(m) (4) (6)

For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

Measurement procedure. Compliance with these rules is based on the use of measurement nstrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed; for mobile digital stations, in the 1 megahertz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed, except when the 1 megahertz band is 2495-2496 MHz, in which case a resolution bandwidth of at least one percent may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 megahertz or 1 percent of emission bandwidth, as specified; or 1 megahertz or 2 percent for mobile digital stations, except in the band 2495-2496 MHz). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power. With respect to television operations, measurements must be made of the separate visual and aural operating powers at sufficiently frequent intervals to ensure compliance with the rules.

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- (2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 43 + 10Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency

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Page: 25 of 32

removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

#### 7.5 **Frequency Stability Measurement**

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

#### 7.6 **Peak to Average Ratio**

The peak-to-average ratio (PAR) of the transmission may not exceed 13dB.

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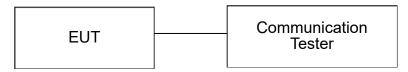
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## **TEST SETUP**

#### 8.1 **Maximum Output Power**



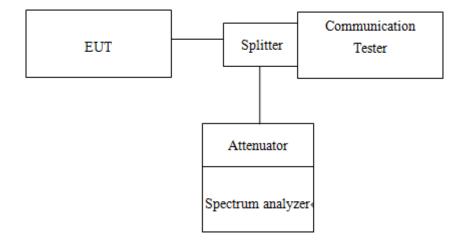
Note: Measurement setup for testing on Antenna connector

#### 8.2 **Occupied Bandwidth Measurement**



Note: Measurement setup for testing on Antenna connector

#### **Out of Band Emission At Antenna Terminals** 8.3



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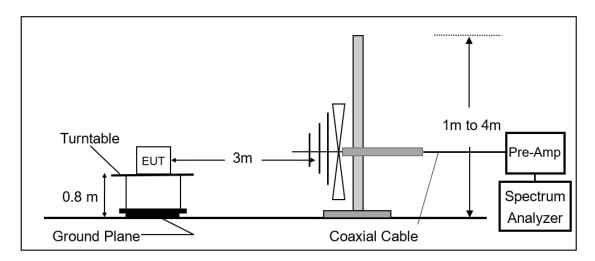
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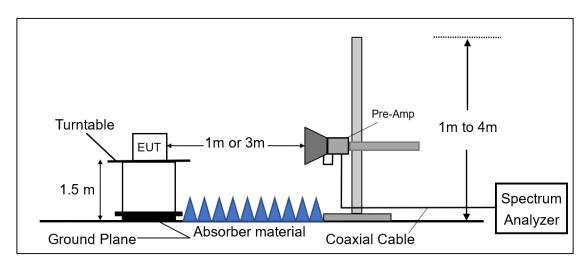
Page: 27 of 32

## **Field Strength of Spurious Radiation Measurement**

Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz.



Radiated Emission Test Set-Up, Frequency Above 1GHz.



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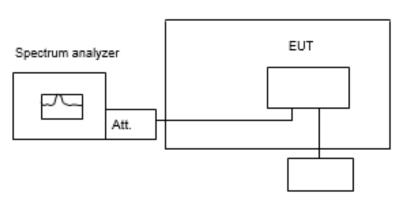
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Page: 28 of 32

## 8.5 Frequency Stability Measurement

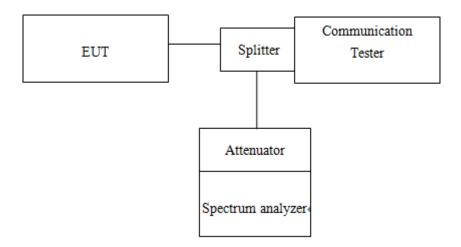
#### Temperature Chamber



Variable DC Power Supply

Note: Measurement setup for testing on Antenna connector

## 8.6 Peak To Average Ratio



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Page: 29 of 32

### 9 TEST PROCEDURE

## 9.1 Maximum Output Power

### 9.1.1 Output Power Measurement Applicable Guideance

The transmitter output was connected to a communication tester. Transmitter output was read off the communication tester in dBm. The power output at the transmitter antenna port was determined by the communication tester reading.

KDB 971168 D01 Power Meas License Digital System as the supplemental test methodology to adjust the proper setting obtaining the measurement results.

All LTE bands conducted average power is obtained from the simulator telecommunication test set.

# 9.1.2 Determining ERP and/or EIRP from conducted RF output power measurements

According to KDB 412172 D01 Power Approach,

 $EIRP = P\tau + G\tau - Lc,$ 

ERP= EIRP-2.15.

Where:

ERP or EIRP = effective radiated power or equivalent isotropically radiated power

(expressed in the same units as PT, typically dBW, dBm, or power spectral density (PSD)2), relative to either a dipole antenna (ERP) or

an isotropic antenna (EIRP);

 $P_T$  = transmitter output power, expressed in dBW, dBm, or PSD;

 $G_T$  = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

Lc = signal attenuation in the connecting cable between the transmitter

and antenna, in dB.

## 9.2 Occupied Bandwidth Measurement

### 99% &26dB Bandwidth with detector peak

The EUT's output RF connector was connected with a short cable to the spectrum analyzer, RBW was set to about 1% of emission BW, VBW= 3 times RBW, -26dBc display line was placed on the screen (or 26dB bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace. Then set RBW to 99% bandwidth, RBW=  $1\% \sim 5\%$ , VBW  $\ge 3$  \* RBW, with span > 2 \* Signal BW, set % Power = 99%.

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Page: 30 of 32

#### **Out of Band Emission at Antenna Terminals**

#### Conducted Emission

The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation The resolution bandwidth of the spectrum analyzer was set at 1MHz, sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic.

- 1. To connect Antenna Port of EUT to Spectrum.
- 2. Set RBW = 1MHz & VBW = 1MHz on Spectrum.
- 3. Allow trace to fully stabilize
- 4. Repeat above procedures until all default test channel measured were complete.

#### 9.3.2 **Band Edge**

- 1. To connect Antenna Port of EUT to Spectrum.
- 2. The band edge of low and high channels for the highest RF powers was measured. Setting RBW ≥ 1% EBW.
- 3. Allow trace to fully stabilize
- 4. Repeat above procedures until all default test channel measured were complete.

## **Field Strength of Spurious Radiation Measurement**

The EUT was placed on a non-conductive; the measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

The frequency range up to tenth harmonic was investigated for each of three fundamental frequencies (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method.

The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

#### **Frequency Stability Measurement** 9.5

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

Set chamber temperature to 20°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low

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Page: 31 of 32

enough to obtain the desired frequency resolution and recorded the frequency. Reduce the input voltage to specify extreme voltage variation (+/- 15%) and endpoint as declared by the manufacturer, record the maximum frequency change.

#### 9.6 Peak to Average Ratio

- 1. KDB 971168 D01 is employed as the following procedure is proper adjusted accordingly:
- 2. Set resolution/measurement bandwidth ≥ signal's occupied bandwidth; & internal =1ms
- 3. Set the number of counts to a value that stabilizes the measured CCDF curve.

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Page: 32 of 32

## 10 MEASUREMENT RESULTS

Please refer to the Annex A-Measurement Results.

## 11 PHOTOGRAPHS OF SET UP

Please refer to the attached file (Setup Photo)

## 12 PHOTOGRAPHS OF EUT

Please refer to the attached file (EUT Photo)

~ End of Report ~

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