



# FCC RF Test Report

**APPLICANT** : Motorola Mobility LLC  
**EQUIPMENT** : Mobile Cellular Phone  
**BRAND NAME** : Motorola  
**MODEL NAME** : XT2343-2  
**FCC ID** : IHDT56AM5  
**STANDARD** : 47 CFR Part 2, 27(M), 27(O)  
**CLASSIFICATION** : PCS Licensed Transmitter Held to Ear (PCE)  
**TEST DATE(S)** : Jun. 26, 2023 ~ Jul. 05, 2023

We, Sporton International Inc. (Kunshan), would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.26-2015 and shown compliance with the applicable technical standards.

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

Jason Jia

Approved by: Jason Jia



**Sporton International Inc. (Kunshan)**

**No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300  
People's Republic of China**



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### REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG352916-01C	Rev. 01	Initial issue of report	Jul. 25, 2023



## SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	Reporting Only	PASS	-
	§27.50(h)(2)	Equivalent Isotropic Radiated Power (5G NR n41, n38)	EIRP < 2Watt		
	§27.50(j)(3)	Equivalent Isotropic Radiated Power (5G NR n77, n78)	EIRP < 1Watt		
3.5	§27.50(j)(4)	Peak-to-Average Ratio	<13 dB	PASS	-
3.6	§2.1049	Occupied Bandwidth	Reporting Only	PASS	-
3.7	§2.1051 §27.53(l)(2)	Conducted Band Edge Measurement (5G NR n77, n78)	< 43+10log <sub>10</sub> (P[Watts])	PASS	-
	§27.53(m)(4)	Conducted Band Edge Measurement (5G NR n41, n38)	§27.53(m)(4)		
3.8	§2.1051 §27.53(l)(2)	Conducted Spurious Emission (5G NR n77, n78)	< 43+10log <sub>10</sub> (P[Watts])	PASS	-
	§2.1051 §27.53(m)(4)	Conducted Spurious Emission (5G NR n41, n38)	< 55+10log <sub>10</sub> (P[Watts])		
3.9	§2.1055 §27.54	Frequency Stability Temperature & Voltage	Within Authorized Band	PASS	-
4.4	§2.1053 §27.53(l)(2)	Radiated Spurious Emission (5G NR n77, n78)	< 43+10log <sub>10</sub> (P[Watts])	PASS	Under limit 26.73 dB at 10174.00 MHz
	§2.1053 §27.53(m)(4)	Radiated Spurious Emission (5G NR n41, n38)	< 55+10log <sub>10</sub> (P[Watts])		

**Conformity Assessment Condition:**

- The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
- The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty"

**Disclaimer:**

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.



# 1 General Description

## 1.1 Applicant

Motorola Mobility LLC  
222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

## 1.2 Manufacturer

Motorola Mobility LLC  
222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

## 1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Cellular Phone
Brand Name	Motorola
Model Name	XT2343-2
FCC ID	IHDT56AM5
IMEI Code	Conducted : 353361260010276/353361260010284 Radiation : 353361260011019/353361260011027
HW Version	DVT2
SW Version	TTD33.32
EUT Stage	Identical Prototype

## 1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	5G NR n38 : 2570 MHz ~ 2620 MHz 5G NR n41 : 2496 MHz ~ 2690 MHz 5G NR n77: 3700 MHz ~ 3980 MHz 5G NR n78: 3700 MHz ~ 3800 MHz
Rx Frequency	5G NR n38: 2570 MHz ~ 2620 MHz 5G NR n41 : 2496 MHz ~ 2690 MHz 5G NR n77: 3700 MHz ~ 3980 MHz 5G NR n78: 3700 MHz ~ 3800 MHz
Bandwidth	<b>For SCS 15kHz:</b> n38: 5MHz / 10MHz / 15MHz / 20MHz / 25MHz / 30MHz / 40MHz n41, n77, n78: 10MHz / 15MHz / 20MHz / 30MHz / 40MHz / 50MHz <b>For SCS 30kHz:</b> n38: 10MHz / 15MHz / 20MHz / 30MHz / 40MHz n41, n77, n78: 10MHz / 15MHz / 20MHz / 30MHz / 40MHz / 50MHz / 60MHz / 70MHz / 80MHz / 90MHz / 100MHz
SCS	15kHz, 30kHz
Maximum Output Power to Antenna	<b>For SCS 15kHz:</b> <Ant. 4> n38 : 22.86 dBm



	n41 : 22.98 dBm <b>&lt;Ant. 5&gt;</b> n77 : 25.90 dBm n78 : 25.46 dBm <b>For SCS 30kHz:</b> <b>&lt;Ant. 4&gt;</b> n38 : 22.83 dBm n41 : 22.89 dBm <b>&lt;Ant. 5&gt;</b> n77 : 25.86 dBm n78 : 25.38 dBm
<b>Antenna Gain</b>	<b>&lt;Ant. 1&gt;</b> n77: -3.7 dBi n78: -3.7 dBi <b>&lt;Ant. 2&gt;</b> n77: -3.5 dBi n78: -3.5 dBi <b>&lt;Ant. 4&gt;</b> n38: -4.24 dBi n41: -4.24 dBi <b>&lt;Ant. 5&gt;</b> n77: -3.71 dBi n78: -3.71 dBi <b>&lt;Ant. 7&gt;</b> n77: -5.6 dBi n78: -5.6 dBi
<b>Type of Modulation</b>	CP-OFDM: QPSK / 16QAM / 64QAM / 256QAM DFT-s-OFDM: PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM

**Remark:**

1. The maximum EIRP is calculated from max output power and max antenna gain, for n77/n78, only the maximum EIRP of Ant.5 is shown in the report.
2. The device supports n77/n78(1T4R) SRS resources on Ant.1/2/5/7, only the conducted test results of worst Ant.5 is showed in the report according to the maximum power.
3. 5G NR n78 support SA mode and NSA mode. According to the maximum power between SA and NSA mode, SA covers NSA mode.
4. 5G NR n38/n41/n77 support SA mode only.
5. 5G NR n77/n78 support HPUE mode
6. 5G NR bands support SCS 15kHz and SCS 30kHz. According to the maximum power, n38 SCS 15kHz covers SCS 30kHz for BW 10/15/20/30/40MHz, n41/n77/n78 SCS 15kHz covers SCS 30kHz for BW 10/15/20/30/40/50MHz.
7. All the supported ENDC combinations are verified conducted power, only the ENDC combination with highest power are shown in the report.
8. The EN-DC mode combination could be referred to the product spec.

## 1.5 Specification of Accessory

Specification of Accessory				
AC Adapter 1 (US)	Brand Name	Motorola(AOHAI)	Model Name	MC-101
AC Adapter 1 (EU)	Brand Name	Motorola(AOHAI)	Model Name	MC-102
AC Adapter 1 (UK)	Brand Name	Motorola(AOHAI)	Model Name	MC-103
AC Adapter 1 (AU)	Brand Name	Motorola(AOHAI)	Model Name	MC-105
AC Adapter 2 (US)	Brand Name	Motorola(Chenyang)	Model Name	MC-101
AC Adapter 2 (EU)	Brand Name	Motorola(Chenyang)	Model Name	MC-102
AC Adapter 2 (UK)	Brand Name	Motorola(Chenyang)	Model Name	MC-103
AC Adapter 2 (AU)	Brand Name	Motorola(Chenyang)	Model Name	MC-105
AC Adapter 3 (US)	Brand Name	Motorola(Salcomp)	Model Name	MC-101
AC Adapter 3 (EU)	Brand Name	Motorola(Salcomp)	Model Name	MC-102
AC Adapter 3 (UK)	Brand Name	Motorola(Salcomp)	Model Name	MC-103
AC Adapter 3 (AU)	Brand Name	Motorola(Salcomp)	Model Name	MC-105
AC Adapter 4 (US)	Brand Name	Motorola(Salcomp)	Model Name	MC-201L
AC Adapter 4 (EU)	Brand Name	Motorola(Salcomp)	Model Name	MC-202L
AC Adapter 4 (UK)	Brand Name	Motorola(Salcomp)	Model Name	MC-203L
AC Adapter 4 (AU)	Brand Name	Motorola(Salcomp)	Model Name	MC-205L
AC Adapter 5 (US)	Brand Name	Motorola(AOHAI)	Model Name	MC-201L
AC Adapter 5 (EU)	Brand Name	Motorola(AOHAI)	Model Name	MC-202L
AC Adapter 5 (UK)	Brand Name	Motorola(AOHAI)	Model Name	MC-203L
AC Adapter 5 (AU)	Brand Name	Motorola(AOHAI)	Model Name	MC-205L
AC Adapter 6 (US)	Brand Name	Motorola(Chenyang)	Model Name	MC-201L
AC Adapter 6 (EU)	Brand Name	Motorola(Chenyang)	Model Name	MC-202L
Battery 1	Brand Name	Motorola(ATL)	Model Name	PC50
Battery 2	Brand Name	Motorola (SCUD)	Model Name	PC50
USB Cable 1	Brand Name	Motorola (WASHIN)	Model Name	S928D92375
USB Cable 2	Brand Name	Motorola (Saibao)	Model Name	S928D95755

## 1.6 Modification of EUT

No modifications are made to the EUT during all test items.



### 1.7 Maximum EIRP and Emission Designator

5G NR n38 – SCS 15k		PI/2 BPSK / QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
5	2572.5 ~ 2617.5	0.0671	4M46G7D	0.0535	4M49W7D
10	2575.0 ~ 2615.0	0.0655	9M29G7D	0.0518	9M29W7D
15	2577.5 ~ 2612.5	0.0671	14M1G7D	0.0536	14M1W7D
20	2580.0 ~ 2610.0	0.0668	19M0G7D	0.0540	18M9W7D
25	2582.5 ~ 2607.5	0.0646	23M8G7D	0.0521	23M7W7D
30	2585.0 ~ 2605.0	0.0622	28M6G7D	0.0490	28M6W7D
40	2590.0 ~ 2600.0	0.0728	38M5G7D	0.0566	38M6W7D

5G NR n41 – SCS 15k		PI/2 BPSK / QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
10	2501.01 ~ 2685.00	0.0701	9M29G7D	0.0550	9M29W7D
15	2503.50 ~ 2682.495	0.0701	14M1G7D	0.0556	14M1W7D
20	2506.005 ~ 2679.99	0.0697	19M0G7D	0.0555	18M9W7D
30	2511.00 ~ 2674.995	0.0690	28M6G7D	0.0556	28M6W7D
40	2516.01 ~ 2670.00	0.0676	38M5G7D	0.0550	38M6W7D
50	2521.005 ~ 2664.99	0.0748	48M1G7D	0.0607	48M2W7D

5G NR n41 – SCS 30k		PI/2 BPSK / QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
10	2501.01 ~ 2685.00	0.0714	9M29G7D	0.0614	9M29W7D
15	2503.50 ~ 2682.48	0.0721	14M1G7D	0.0605	14M1W7D
20	2506.02 ~ 2679.99	0.0733	19M0G7D	0.0601	18M9W7D
30	2511.00 ~ 2674.98	0.0681	28M6G7D	0.0560	28M6W7D
40	2516.01 ~ 2670.00	0.0650	38M5G7D	0.0531	38M6W7D
50	2521.02 ~ 2664.99	0.0693	48M1G7D	0.0564	48M2W7D
60	2526.00 ~ 2659.98	0.0659	57M8G7D	0.0542	57M9W7D
70	2531.01 ~ 2655.00	0.0646	67M5G7D	0.0516	67M7W7D
80	2536.02 ~ 2649.99	0.0625	77M3G7D	0.0509	77M4W7D
90	2541.00 ~ 2644.98	0.0604	87M6G7D	0.0495	87M6W7D
100	2546.01 ~ 2640.00	0.0733	97M4G7D	0.0582	97M4W7D





5G NR n77 – SCS 15k		PI/2 BPSK / QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
10	3705.000 ~ 3975.000	0.1429	9M27G7D	0.1146	9M29W7D
15	3705.505 ~ 3972.495	0.1409	14M1G7D	0.1117	14M1W7D
20	3710.010 ~ 3969.990	0.1406	18M9G7D	0.1122	18M9W7D
30	3715.005 ~ 3964.980	0.1334	28M5G7D	0.1072	28M5W7D
40	3720.000 ~ 3960.000	0.1300	38M5G7D	0.1021	38M5W7D
50	3725.010 ~ 3954.990	0.1656	48M1G7D	0.1274	48M2W7D

5G NR n77 – SCS 30k		PI/2 BPSK / QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
10	3705.00 ~ 3975.00	0.1603	9M27G7D	0.1239	9M29W7D
15	3707.52 ~ 3972.48	0.1560	14M1G7D	0.1227	14M1W7D
20	3710.01 ~ 3969.99	0.1535	18M9G7D	0.1197	18M9W7D
30	3715.02 ~ 3964.98	0.1466	28M5G7D	0.1183	28M5W7D
40	3720.00 ~ 3960.00	0.1462	38M5G7D	0.1138	38M5W7D
50	3725.01 ~ 3954.99	0.1510	48M1G7D	0.1180	48M2W7D
60	3730.02 ~ 3949.98	0.1459	57M7G7D	0.1138	57M8W7D
70	3735.00 ~ 3945.00	0.1476	67M6G7D	0.1151	67M6W7D
80	3740.01 ~ 3939.99	0.1435	77M6G7D	0.1117	77M4W7D
90	3745.02 ~ 3934.98	0.1390	87M3G7D	0.1104	87M4W7D
100	3750.00 ~ 3930.00	0.1641	97M2G7D	0.1321	97M4W7D



5G NR n78 – SCS 15k		PI/2 BPSK / QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
10	3705.000 ~ 3795.000	0.1432	9M27G7D	0.1138	9M29W7D
15	3705.505 ~ 3792.495	0.1452	14M1G7D	0.1159	14M1W7D
20	3710.010 ~ 3789.990	0.1455	18M9G7D	0.1175	18M9W7D
30	3715.005 ~ 3784.995	0.1384	28M5G7D	0.1112	28M5W7D
40	3720.000 ~ 3780.000	0.1306	38M5G7D	0.1028	38M5W7D
50	3725.010 ~ 3774.990	0.1496	48M1G7D	0.1099	48M2W7D

5G NR n78 – SCS 30k		PI/2 BPSK / QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
10	3705.00 ~ 3795.00	0.1469	9M27G7D	0.1172	9M29W7D
15	3707.52 ~ 3792.48	0.1462	14M1G7D	0.1175	14M1W7D
20	3710.01 ~ 3789.99	0.1452	18M9G7D	0.1161	18M9W7D
30	3715.02 ~ 3784.98	0.1387	28M5G7D	0.1125	28M5W7D
40	3720.00 ~ 3780.00	0.1318	38M5G7D	0.1062	38M5W7D
50	3725.01 ~ 3774.99	0.1380	48M1G7D	0.1104	48M2W7D
60	3730.02 ~ 3769.98	0.1343	57M7G7D	0.1076	57M8W7D
70	3735.00 ~ 3765.00	0.1346	67M6G7D	0.1079	67M6W7D
80	3740.01 ~ 3759.99	0.1306	77M6G7D	0.1040	77M4W7D
90	3745.02 ~ 3754.98	0.1271	87M3G7D	0.1026	87M4W7D
100	3750.00	0.1469	97M2G7D	0.1167	97M4W7D

Note:

1. 5G NR Band n41 overlaps the entire frequency range of Band n38. Therefore, the conducted test results provided in this report covers Band n41 as well as Band n38, and 5G NR n38 supports BW 5/25MHz for SCS 15kHz, it is tested in the report.
2. 5G NR n77 overlaps the entire frequency range of 5G NR n78. Therefore, the test results provided in this report covers 5G NR n77 as well as 5G NR n78.
3. All modulations have been tested, only the worst test results of PSK & QAM are shown in the report.



### 1.8 Testing Location

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

<b>Test Firm</b>	Sporton International Inc. (Kunshan)		
<b>Test Site Location</b>	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158		
<b>Test Site No.</b>	<b>Sporton Site No.</b>	<b>FCC Designation No.</b>	<b>FCC Test Firm Registration No.</b>
	03CH04-KS TH01-KS	CN1257	314309

### 1.9 Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH04-KS	AUDIX	E3	6.2009-8-24al

### 1.10 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR Part 2, 27M, 27O
- ♦ ANSI C63.26-2015
- ♦ FCC KDB 971168 D01 Power Meas License Digital Systems v03r01
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01

**Remark:**

All test items were verified and recorded according to the standards and without any deviation during the test.




## 2 Test Configuration of Equipment Under Test

### 2.1 Test Mode

Antenna port conducted and radiated test items are performed according to KDB 971168 D01 Power Meas License Digital Systems v03r01 with maximum output power.

For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (X plane) were recorded in this report.

The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.

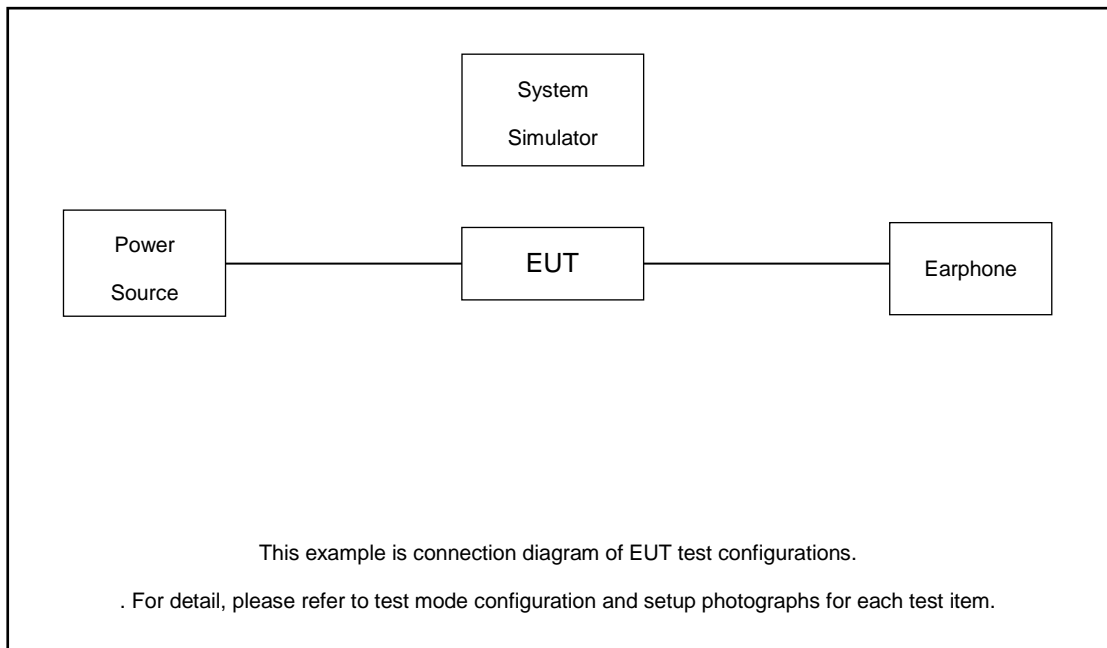
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			

Test Items	5G NR	Bandwidth (MHz)														Modulation				RB #		Test Channel		
		5	10	15	20	25	30	40	50	60	70	80	90	100	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	1	Full	L	M	H
Max. Output Power	n38	v	v	v	v	v	v	v	-	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v
	n41	-	v	v	v	-	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	n77	-	v	v	v	-	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	n78	-	v	v	v	-	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
Peak-to-Average Ratio	n38				v				-	-	-	-	-	-	v	v				v	v		v	
	n41	-				-		v						v	v	v				v	v		v	
	n77	-				-		v						v	v	v				v	v		v	
26dB and 99% Bandwidth	n38	v				v			-	-	-	-	-	-		v	v	v	v		v		v	
	n41	-	v	v	v	-	v	v	v	v	v	v	v	v		v	v	v	v		v		v	
	n77	-	v	v	v	-	v	v	v	v	v	v	v	v		v	v	v	v		v		v	
Conducted Band Edge	n38	v				v			-	-	-	-	-	-	v	v				v	v	v		v
	n41	-		v		-	v		v	v		v		v	v	v				v	v	v		v
	n77	-		v		-	v		v	v		v		v	v	v				v	v	v		v
Conducted Spurious Emission	n38	v				v			-	-	-	-	-	-	v	v				v		v	v	v
	n41	-		v		-	v		v	v		v		v	v	v				v		v	v	v
	n77	-		v		-	v		v	v		v		v	v	v				v		v	v	v



Test Items	5G NR	Bandwidth (MHz)													Modulation					RB #		Test Channel			
		5	10	15	20	25	30	40	50	60	70	80	90	100	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	1	Full	L	M	H	
Frequency Stability	n38	v							-	-	-	-	-	-		v					v		v		
	n41	-	v			-				v						v						v		v	
	n77	-	v			-				v						v						v		v	
E.I.R.P	n38	v	v	v	v	v	v	v	-	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v	v
	n41	-	v	v	v	-	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	n77	-	v	v	v	-	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	n78	-	v	v	v	-	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
Radiated Spurious Emission	n41	Worst Case																						v	
	n77	Worst Case																						v	
	n78	Worst Case																						v	
Note	1. The mark "v" means that this configuration is chosen for testing 2. The mark "-" means that this bandwidth is not supported. 3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported. 4. Frequency Stability: Normal Voltage = 3.91V ; Low Voltage =3.60V ; High Voltage =4.45V.																								

## 2.2 Connection Diagram of Test System



The EUT has been configuration operated in a manner tended to maximize its emission characteristics in a typical application.

### 2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	DC Power Supply	GW	GPS-3030D	N/A	N/A	Unshielded, 1.8 m
2.	LTE Base Station	Anritsu	MT8821C	N/A	N/A	Unshielded, 1.8 m
3.	NR Base Station	Anritsu	MT8000A	N/A	N/A	Unshielded, 1.8 m
4.	Earphone	Motorola	N/A	N/A	Unshielded, 1.2m	N/A

### 2.4 Measurement Results Explanation Example

**For all conducted test items:**

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

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

*Offset = RF cable loss + attenuator factor.*

Following shows an offset computation example with cable loss 6.0 dB and 20dB attenuator.

Example :

*Offset(dB) = RF cable loss(dB) + attenuator factor(dB).*

$$= 6.0 + 20 = 26.0 \text{ (dB)}$$

### 2.5 Frequency List of Low/Middle/High Channels

5G NR n38 Channel and Frequency List for SCS 15k/30k				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
40	Channel	518000	519000	520000
	Frequency	2590	2595	2600
30	Channel	517000	519000	521000
	Frequency	2585	2595	2605
25	Channel	516500	519000	521500
	Frequency	2582.5	2595	2607.5
20	Channel	516000	519000	522000
	Frequency	2580	2595	2610
15	Channel	515500	519000	522500
	Frequency	2577.5	2595	2612.5
10	Channel	515000	519000	523000
	Frequency	2575	2595	2615
5	Channel	514500	519000	523500



	Frequency	2572.5	2595	2617.5
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Note: 5G NR n38 does not support BW 5MHz for SCS 30k.

5G NR n41 Channel and Frequency List for SCS 15k				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
50	Channel	504201	518601	532998
	Frequency	2521.005	2593.005	2664.99
40	Channel	503202	518601	534000
	Frequency	2516.01	2593.005	2670
30	Channel	502200	518601	534999
	Frequency	2511	2593.005	2674.995
20	Channel	501201	518601	535998
	Frequency	2506.005	2593.005	2679.99
15	Channel	500700	518601	536499
	Frequency	2503.5	2593.005	2682.495
10	Channel	500202	518601	537000
	Frequency	2501.01	2593.005	2685

5G NR n41 Channel and Frequency List for SCS 30k				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
100	Channel	509202	518598	528000
	Frequency	2546.01	2592.99	2640
90	Channel	508200	518598	528996
	Frequency	2541	2592.99	2644.98
80	Channel	507204	518598	529998
	Frequency	2536.02	2592.99	2649.99
70	Channel	506202	518598	531000
	Frequency	2531.01	2592.99	2655
60	Channel	505200	518598	531996
	Frequency	2526	2592.99	2659.98
50	Channel	504204	518598	532998
	Frequency	2521.02	2592.99	2664.99
40	Channel	503202	518598	534000
	Frequency	2516.01	2592.99	2670
30	Channel	502200	518598	534996
	Frequency	2511	2592.99	2674.98



20	Channel	501204	518598	535998
	Frequency	2506.02	2592.99	2679.99
15	Channel	500700	518598	536496
	Frequency	2503.5	2592.99	2682.48
10	Channel	500202	518598	537000
	Frequency	2501.01	2592.99	2685

5G n77 Channel and Frequency List for SCS 15k				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
50	Channel	648334	656000	663666
	Frequency	3725.01	3840	3954.99
40	Channel	648000	656000	664000
	Frequency	3720	3840	3960
30	Channel	647667	656000	664332
	Frequency	3715.005	3840	3964.98
20	Channel	647334	656000	664666
	Frequency	3710.01	3840	3969.99
15	Channel	647167	656000	664833
	Frequency	3707.505	3840	3972.495
10	Channel	647000	656000	665000
	Frequency	3705	3840	3975

5G n78 Channel and Frequency List for SCS 15k				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
50	Channel	648334	650000	651666
	Frequency	3725.01	3750	3774.99
40	Channel	648000	650000	652000
	Frequency	3720	3750	3780
30	Channel	647667	650000	652333
	Frequency	3715.005	3750	3784.995
20	Channel	647334	650000	652666
	Frequency	3710.01	3750	3789.99
15	Channel	647167	650000	652833
	Frequency	3707.505	3750	3792.495
10	Channel	647000	650000	653000
	Frequency	3705	3750	3795





5G n77 Channel and Frequency List for SCS 30k				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
100	Channel	650000	656000	662000
	Frequency	3750	3840	3930
90	Channel	649668	656000	662332
	Frequency	3745.02	3840	3934.98
80	Channel	649334	656000	662666
	Frequency	3740.01	3840	3939.99
70	Channel	649000	656000	663000
	Frequency	3735	3840	3945
60	Channel	648668	656000	663332
	Frequency	3730.02	3840	3949.98
50	Channel	648334	656000	663666
	Frequency	3725.01	3840	3954.99
40	Channel	648000	656000	664000
	Frequency	3720	3840	3960
30	Channel	647668	656000	664332
	Frequency	3715.02	3840	3964.98
20	Channel	647334	656000	664666
	Frequency	3710.01	3840	3969.99
15	Channel	647168	656000	664832
	Frequency	3707.52	3840	3972.48
10	Channel	647000	656000	665000
	Frequency	3705	3840	3975



5G n78 Channel and Frequency List for SCS 30k				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
100	Channel	650000		
	Frequency	3750		
90	Channel	649668	650000	650332
	Frequency	3745.02	3750	3754.98
80	Channel	649334	650000	650666
	Frequency	3740.01	3750	3759.99
70	Channel	649000	650000	651000
	Frequency	3735	3750	3765
60	Channel	648668	650000	651332
	Frequency	3730.02	3750	3769.98
50	Channel	648334	650000	651666
	Frequency	3725.01	3750	3774.99
40	Channel	648000	650000	652000
	Frequency	3720	3750	3780
30	Channel	647668	650000	652332
	Frequency	3715.02	3750	3784.98
20	Channel	647334	650000	652666
	Frequency	3710.01	3750	3789.99
15	Channel	647168	650000	652832
	Frequency	3707.52	3750	3792.48
10	Channel	647000	650000	653000
	Frequency	3705	3750	3795

### 3 Conducted Test Items

#### 3.1 Measuring Instruments

See list of measuring instruments of this test report.

#### 3.2 Test Setup

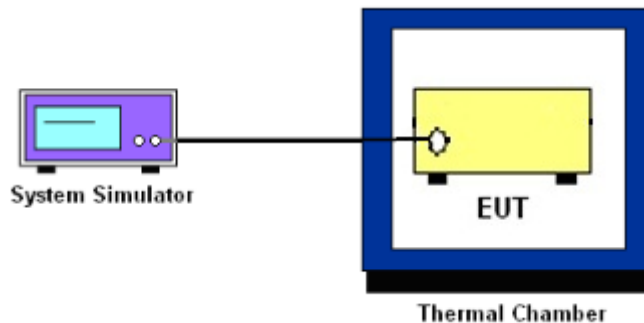
##### 3.2.1 Conducted Output Power



##### 3.2.2 Peak-to-Average Ratio, Occupied Bandwidth, Conducted Band-Edge and Conducted Spurious Emission



##### 3.2.3 Frequency Stability



### 3.3 Test Result of Conducted Test

Please refer to Appendix A.



### 3.4 Conducted Output Power and EIRP

#### 3.4.1 Description of the Conducted Output Power Measurement and EIRP Measurement

A system simulator was used to establish communication with the EUT. Its parameters were set to force the EUT transmitting at maximum output power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

The EIRP of mobile transmitters must not exceed 2 Watts for 5G NR n38, n41.

The EIRP of mobile transmitters must not exceed 1 Watts for 5G NR n77, n78.

According to KDB 412172 D01 Power Approach,

$EIRP = P_T + G_T - L_C$ ,  $ERP = EIRP - 2.15$ , where

$P_T$  = transmitter output power in dBm

$G_T$  = gain of the transmitting antenna in dBi

$L_C$  = signal attenuation in the connecting cable between the transmitter and antenna in dB

#### 3.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.2
2. The transmitter output port was connected to the system simulator.
3. Set EUT at maximum power through the system simulator.
4. Select lowest, middle, and highest channels for each band and different modulation.
5. Measure and record the power level from the system simulator.



## 3.5 Peak-to-Average Ratio

### 3.5.1 Description of the PAR Measurement

Power Complementary Cumulative Distribution Function (CCDF) curves provide a means for characterizing the power peaks of a digitally modulated signal on a statistical basis. A CCDF curve depicts the probability of the peak signal amplitude exceeding the average power level. Most contemporary measurement instrumentation include the capability to produce CCDF curves for an input signal provided that the instrument's resolution bandwidth can be set wide enough to accommodate the entire input signal bandwidth. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

### 3.5.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.2.3.4 (CCDF).
2. The EUT was connected to spectrum and system simulator via a power divider.
3. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
4. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
5. Record the deviation as Peak to Average Ratio.



## 3.6 Occupied Bandwidth

### 3.6.1 Description of Occupied Bandwidth Measurement

The occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

### 3.6.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.4
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be between two and five times the anticipated OBW.
4. The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
5. Set the detection mode to peak, and the trace mode to max hold.
6. Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace.  
(this is the reference value)
7. Determine the “-26 dB down amplitude” as equal to (Reference Value – X).
8. Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the “-X dB down amplitude” determined in step 6. If a marker is below this “-X dB down amplitude” value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.
9. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.



## 3.7 Conducted Band Edge

### 3.7.1 Description of Conducted Band Edge Measurement

27.53(m)(4)

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 than  $43 + 10 \log (P)$  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.

27.53(l)(2)

For mobile operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed  $-13$  dBm/MHz. Compliance with this paragraph is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be either one percent of the emission bandwidth of the fundamental emission of the transmitter or 350 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz.



### 3.7.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The band edges of low and high channels for the highest RF powers were measured.
4. Set RBW  $\geq$  1% EBW in the 1MHz band immediately outside and adjacent to the band edge.
5. Beyond the 1 MHz band from the band edge, RBW=1MHz was used or a narrower RBW was used (generally limited to no less than 1% of the OBW) and the measured power was integrated over the full required measurement bandwidth.
6. Set spectrum analyzer with RMS detector.
7. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
8. Checked that all the results comply with the emission limit line.

Example:

The limit line is derived from  $43 + 10\log(P)$ dB below the transmitter power P(Watts)

$$= P(W) - [43 + 10\log(P)] \text{ (dB)}$$

$$= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)} = -13\text{dBm}.$$

9. For 5G NR n38/n41, the other 40 dB, and 55 dB have additionally applied same calculation above.
10. When using the integration method, the starting frequency of the integration shall be centered at one-half of the RBW away from the band edge.





### 3.8 Conducted Spurious Emission

#### 3.8.1 Description of Conducted Spurious Emission Measurement

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least  $43 + 10 \log (P)$  dB.

For 5G NR n38/n41:

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least  $55 + 10 \log (P)$  dB.

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10<sup>th</sup> harmonic.

#### 3.8.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
4. The middle channel for the highest RF power within the transmitting frequency was measured.
5. The conducted spurious emission for the whole frequency range was taken.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz.
7. Set spectrum analyzer with RMS detector.
8. Taking the record of maximum spurious emission.
9. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
10. The limit line is derived from  $43 + 10\log(P)$ dB below the transmitter power P(Watts)  
 $= P(W) - [43 + 10\log(P)]$  (dB)  
 $= [30 + 10\log(P)]$  (dBm) -  $[43 + 10\log(P)]$  (dB)  
 $= -13$ dBm.
11. For 5G NR n38/n41  
The limit line is derived from  $55 + 10\log(P)$ dB below the transmitter power P(Watts)  
 $= P(W) - [55 + 10\log(P)]$  (dB)  
 $= [30 + 10\log(P)]$  (dBm) -  $[55 + 10\log(P)]$  (dB)  
 $= -25$ dBm.



## 3.9 Frequency Stability

### 3.9.1 Description of Frequency Stability Measurement

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within  $\pm 0.00025\%$  ( $\pm 2.5\text{ppm}$ ) of the center frequency.

### 3.9.2 Test Procedures for Temperature Variation

1. The testing follows ANSI C63.26 section 5.6.4
2. The EUT was set up in the thermal chamber and connected with the system simulator.
3. With power OFF, the temperature was decreased to  $-30^{\circ}\text{C}$  and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
4. With power OFF, the temperature was raised in  $10^{\circ}\text{C}$  step up to  $50^{\circ}\text{C}$ . The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

### 3.9.3 Test Procedures for Voltage Variation

1. The testing follows ANSI C63.26 section 5.6.5
2. The EUT was placed in a temperature chamber at  $20\pm 5^{\circ}\text{C}$  and connected with the system simulator.
3. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value for other than hand carried battery equipment.
4. For hand carried, battery powered equipment, reduce the primary ac or dc supply voltage to the battery operating end point, which shall be specified by the manufacturer.
5. The variation in frequency was measured for the worst case.

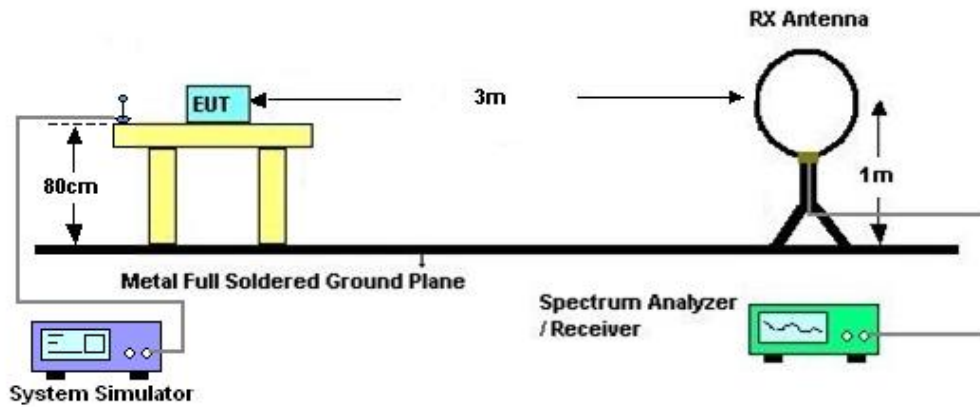
## 4 Radiated Test Items

### 4.1 Measuring Instruments

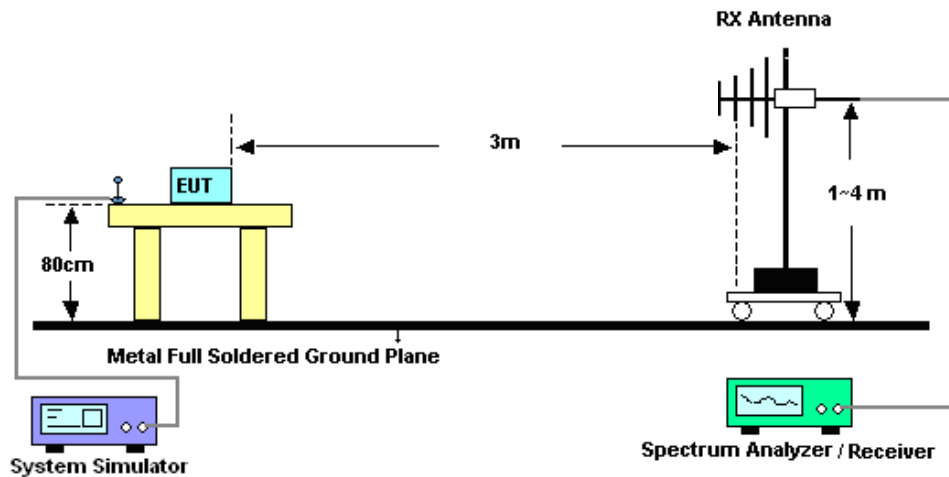
See list of measuring instruments of this test report.

### 4.2 Test Setup

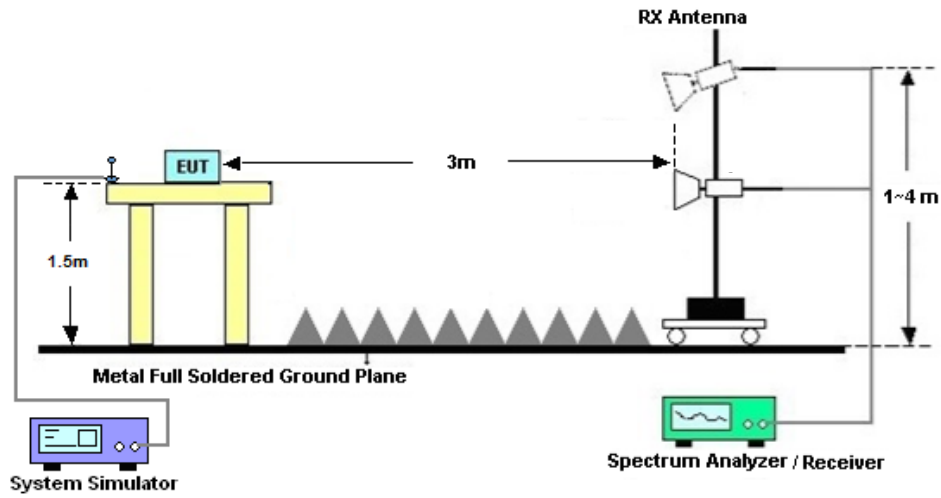
#### 4.2.1 For radiated test below 30MHz



#### 4.2.2 For radiated test from 30MHz to 1GHz



#### 4.2.3 For radiated test above 1GHz



#### 4.3 Test Result of Radiated Test

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

Please refer to Appendix B.



## 4.4 Radiated Spurious Emission

### 4.4.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI C63.26. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least  $43 + 10 \log (P)$  dB.

For 5G NR n38/n41

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least  $55 + 10 \log (P)$  dB.

The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

### 4.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.5
2. The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
6. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
7. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
8. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
9. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
10.  $EIRP (dBm) = S.G. Power - Tx Cable Loss + Tx Antenna Gain$
11.  $ERP (dBm) = EIRP - 2.15$
12. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

The limit line is derived from  $43 + 10\log(P)$ dB below the transmitter power P(Watts)  
 $= P(W) - [43 + 10\log(P)] (dB)$   
 $= [30 + 10\log(P)] (dBm) - [43 + 10\log(P)] (dB)$   
 $= -13dBm.$

13. For 5G NR n38/n41:

The limit line is derived from  $55 + 10\log(P)$ dB below the transmitter power P(Watts)  
The limit line is derived from  $55 + 10\log(P)$ dB below the transmitter power P(Watts)



## 5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Oct. 12, 2022	Jun. 26, 2023~ Jul. 05, 2023	Oct. 11, 2023	Conducted (TH01-KS)
Power divider	STI	STI08-0055	-	0.5~40GHz	NCR	Jun. 26, 2023~ Jul. 05, 2023	NCR	Conducted (TH01-KS)
Temperature & humidity chamber	Hongzhan	LP-150U	H2014011440	-40~+150°C 20%~95%RH	Jul. 15, 2022	Jun. 26, 2023~ Jul. 05, 2023	Jul. 14, 2023	Conducted (TH01-KS)
EXA Spectrum Analyzer	Keysight	N9010B	MY57471079	10Hz~44G,MAX 30dB	Oct. 12, 2022	Jun. 30, 2023	Oct. 11, 2023	Radiation (03CH04-KS)
Loop Antenna	R&S	HFH2-Z2E	101125	9kHz~30MHz	Sep. 22, 2022	Jun. 30, 2023	Sep. 21, 2023	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	49922	30MHz~1GHz	Apr. 09, 2023	Jun. 30, 2023	Apr. 08, 2024	Radiation (03CH04-KS)
Horn Antenna	Schwarzbeck	BBHA9120D	1284	1GHz~18GHz	Oct. 16, 2022	Jun. 30, 2023	Oct. 15, 2023	Radiation (03CH04-KS)
SHF-EHF Horn	Com-power	AH-840	101070	18GHz~40GHz	Jan. 08, 2023	Jun. 30, 2023	Jan. 07, 2024	Radiation (03CH04-KS)
Amplifier	SONOMA	310N	380827	9KHz~1GHz	Jul. 11, 2022	Jun. 30, 2023	Jul. 10, 2023	Radiation (03CH04-KS)
Amplifier	MITEQ	EM18G40G GA	060728	18~40GHz	Jan. 05, 2023	Jun. 30, 2023	Jan. 04, 2024	Radiation (03CH04-KS)
high gain Amplifier	EM	EM01G18G A	060840	1Ghz~18Ghz	Oct. 12, 2022	Jun. 30, 2023	Oct. 11, 2023	Radiation (03CH04-KS)
Amplifier	Agilent	8449B	3008A02370	1Ghz~18Ghz	Oct. 12, 2022	Jun. 30, 2023	Oct. 11, 2023	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Jun. 30, 2023	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Jun. 30, 2023	NCR	Radiation (03CH04-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Jun. 30, 2023	NCR	Radiation (03CH04-KS)

NCR: No Calibration Required



## 6 Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.26-2015. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

### Uncertainty of Conducted Measurement

Test Item	Uncertainty
Conducted Power	±0.46 dB
Conducted Emissions	±2.26 dB
Occupied Channel Bandwidth	±0.1 %

### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.82
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### Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.56
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### Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.54
---	------

----- THE END -----



### Appendix A. Test Results of Conducted Test

Test Engineer :	Simle Wang	Temperature :	22~23°C
		Relative Humidity :	40~42%

### Conducted Output Power(Average power and EIRP)

#### 5G NR n38 - SCS 15k(ANT4):

NR Band	SCS	BandWidth	Arfcn	Freq(MHz)	Modulation	RB	Conducted Power (dBm)	EIRP(dBm)	EIRP(W)
38	15	5	514500	2572.5	DFT-s-OFDM PI/2 BPSK	1@1	22.01	17.77	0.0598
38	15	5	514500	2572.5	DFT-s-OFDM QPSK	1@1	21.98	17.74	0.0594
38	15	5	514500	2572.5	DFT-s-OFDM 16 QAM	1@1	21.19	16.95	0.0495
38	15	5	518500	2592.5	DFT-s-OFDM PI/2 BPSK	1@1	22.18	17.94	0.0622
38	15	5	518500	2592.5	DFT-s-OFDM QPSK	1@1	22.18	17.94	0.0622
38	15	5	518500	2592.5	DFT-s-OFDM 16 QAM	1@1	21.4	17.16	0.0520
38	15	5	523500	2617.5	DFT-s-OFDM PI/2 BPSK	1@1	22.51	18.27	0.0671
38	15	5	523500	2617.5	DFT-s-OFDM QPSK	1@1	22.43	18.19	0.0659
38	15	5	523500	2617.5	DFT-s-OFDM 16 QAM	1@1	21.52	17.28	0.0535
38	15	10	515000	2575	DFT-s-OFDM PI/2 BPSK	1@1	21.78	17.54	0.0568
38	15	10	515000	2575	DFT-s-OFDM QPSK	1@1	21.75	17.51	0.0564
38	15	10	515000	2575	DFT-s-OFDM 16 QAM	1@1	20.98	16.74	0.0472
38	15	10	519000	2595	DFT-s-OFDM PI/2 BPSK	1@1	22.07	17.83	0.0607
38	15	10	519000	2595	DFT-s-OFDM QPSK	1@1	21.96	17.72	0.0592
38	15	10	519000	2595	DFT-s-OFDM 16 QAM	1@1	21.21	16.97	0.0498
38	15	10	523000	2615	DFT-s-OFDM PI/2 BPSK	1@1	22.4	18.16	0.0655
38	15	10	523000	2615	DFT-s-OFDM QPSK	1@1	22.27	18.03	0.0635
38	15	10	523000	2615	DFT-s-OFDM 16 QAM	1@1	21.38	17.14	0.0518
38	15	15	515500	2577.5	DFT-s-OFDM PI/2 BPSK	1@1	21.89	17.65	0.0582
38	15	15	515500	2577.5	DFT-s-OFDM QPSK	1@1	21.85	17.61	0.0577
38	15	15	515500	2577.5	DFT-s-OFDM 16 QAM	1@1	21.22	16.98	0.0499
38	15	15	519000	2595	DFT-s-OFDM PI/2 BPSK	1@1	22.12	17.88	0.0614
38	15	15	519000	2595	DFT-s-OFDM QPSK	1@1	22.09	17.85	0.0610
38	15	15	519000	2595	DFT-s-OFDM 16 QAM	1@1	21.38	17.14	0.0518
38	15	15	522500	2612.5	DFT-s-OFDM PI/2 BPSK	1@1	22.51	18.27	0.0671
38	15	15	522500	2612.5	DFT-s-OFDM QPSK	1@1	22.45	18.21	0.0662
38	15	15	522500	2612.5	DFT-s-OFDM 16 QAM	1@1	21.53	17.29	0.0536
38	15	20	516000	2580	DFT-s-OFDM PI/2 BPSK	1@1	21.86	17.62	0.0578
38	15	20	516000	2580	DFT-s-OFDM QPSK	1@1	21.82	17.58	0.0573
38	15	20	516000	2580	DFT-s-OFDM 16 QAM	1@1	21.05	16.81	0.0480
38	15	20	519000	2595	DFT-s-OFDM PI/2 BPSK	1@1	22.06	17.82	0.0605
38	15	20	519000	2595	DFT-s-OFDM QPSK	1@1	21.96	17.72	0.0592
38	15	20	519000	2595	DFT-s-OFDM 16 QAM	1@1	21.28	17.04	0.0506
38	15	20	522000	2610	DFT-s-OFDM PI/2 BPSK	1@1	22.49	18.25	0.0668
38	15	20	522000	2610	DFT-s-OFDM QPSK	1@1	22.39	18.15	0.0653
38	15	20	522000	2610	DFT-s-OFDM 16 QAM	1@1	21.56	17.32	0.0540
38	15	25	516500	2582.5	DFT-s-OFDM PI/2 BPSK	1@1	21.87	17.63	0.0579
38	15	25	516500	2582.5	DFT-s-OFDM QPSK	1@1	21.76	17.52	0.0565
38	15	25	516500	2582.5	DFT-s-OFDM 16 QAM	1@1	20.99	16.75	0.0473
38	15	25	519000	2595	DFT-s-OFDM PI/2 BPSK	1@1	21.92	17.68	0.0586
38	15	25	519000	2595	DFT-s-OFDM QPSK	1@1	21.9	17.66	0.0583
38	15	25	519000	2595	DFT-s-OFDM 16 QAM	1@1	21.09	16.85	0.0484





38	15	25	521500	2607.5	DFT-s-OFDM PI/2 BPSK	1@1	22.21	17.97	0.0627
38	15	25	521500	2607.5	DFT-s-OFDM QPSK	1@1	22.34	18.1	0.0646
38	15	25	521500	2607.5	DFT-s-OFDM 16 QAM	1@1	21.41	17.17	0.0521
38	15	30	517000	2585	DFT-s-OFDM PI/2 BPSK	1@1	21.75	17.51	0.0564
38	15	30	517000	2585	DFT-s-OFDM QPSK	1@1	21.73	17.49	0.0561
38	15	30	517000	2585	DFT-s-OFDM 16 QAM	1@1	20.93	16.69	0.0467
38	15	30	519000	2595	DFT-s-OFDM PI/2 BPSK	1@1	21.74	17.5	0.0562
38	15	30	519000	2595	DFT-s-OFDM QPSK	1@1	21.72	17.48	0.0560
38	15	30	519000	2595	DFT-s-OFDM 16 QAM	1@1	20.94	16.7	0.0468
38	15	30	521000	2605	DFT-s-OFDM PI/2 BPSK	1@1	22.18	17.94	0.0622
38	15	30	521000	2605	DFT-s-OFDM QPSK	1@1	22.06	17.82	0.0605
38	15	30	521000	2605	DFT-s-OFDM 16 QAM	1@1	21.14	16.9	0.0490
38	15	40	518000	2590	DFT-s-OFDM PI/2 BPSK	108@54	22.69	18.45	0.0700
38	15	40	518000	2590	DFT-s-OFDM PI/2 BPSK	1@1	21.66	17.42	0.0552
38	15	40	518000	2590	DFT-s-OFDM PI/2 BPSK	1@214	22.19	17.95	0.0624
38	15	40	518000	2590	DFT-s-OFDM QPSK	108@54	22.64	18.4	0.0692
38	15	40	518000	2590	DFT-s-OFDM QPSK	1@1	21.62	17.38	0.0547
38	15	40	518000	2590	DFT-s-OFDM QPSK	1@214	22.16	17.92	0.0619
38	15	40	518000	2590	DFT-s-OFDM 16 QAM	108@54	21.62	17.38	0.0547
38	15	40	518000	2590	DFT-s-OFDM 16 QAM	1@1	20.84	16.6	0.0457
38	15	40	518000	2590	DFT-s-OFDM 16 QAM	1@214	21.25	17.01	0.0502
38	15	40	518000	2590	DFT-s-OFDM 64 QAM	108@54	20.12	15.88	0.0387
38	15	40	518000	2590	DFT-s-OFDM 64 QAM	1@1	19.41	15.17	0.0329
38	15	40	518000	2590	DFT-s-OFDM 64 QAM	1@214	19.85	15.61	0.0364
38	15	40	518000	2590	DFT-s-OFDM 256 QAM	108@54	18.16	13.92	0.0247
38	15	40	518000	2590	DFT-s-OFDM 256 QAM	1@1	16.97	12.73	0.0187
38	15	40	518000	2590	DFT-s-OFDM 256 QAM	1@214	17.46	13.22	0.0210
38	15	40	518000	2590	CP-OFDM QPSK	108@54	21.09	16.85	0.0484
38	15	40	518000	2590	CP-OFDM QPSK	1@1	20.19	15.95	0.0394
38	15	40	518000	2590	CP-OFDM QPSK	1@214	20.66	16.42	0.0439
38	15	40	519000	2595	DFT-s-OFDM PI/2 BPSK	108@54	22.81	18.57	0.0719
38	15	40	519000	2595	DFT-s-OFDM PI/2 BPSK	1@1	21.68	17.44	0.0555
38	15	40	519000	2595	DFT-s-OFDM PI/2 BPSK	1@214	22.22	17.98	0.0628
38	15	40	519000	2595	DFT-s-OFDM QPSK	108@54	22.71	18.47	0.0703
38	15	40	519000	2595	DFT-s-OFDM QPSK	1@1	21.64	17.4	0.0550
38	15	40	519000	2595	DFT-s-OFDM QPSK	1@214	22.19	17.95	0.0624
38	15	40	519000	2595	DFT-s-OFDM 16 QAM	108@54	21.77	17.53	0.0566
38	15	40	519000	2595	DFT-s-OFDM 16 QAM	1@1	20.83	16.59	0.0456
38	15	40	519000	2595	DFT-s-OFDM 16 QAM	1@214	21.25	17.01	0.0502
38	15	40	519000	2595	DFT-s-OFDM 64 QAM	108@54	20.19	15.95	0.0394
38	15	40	519000	2595	DFT-s-OFDM 64 QAM	1@1	19.31	15.07	0.0321
38	15	40	519000	2595	DFT-s-OFDM 64 QAM	1@214	19.84	15.6	0.0363
38	15	40	519000	2595	DFT-s-OFDM 256 QAM	108@54	18.2	13.96	0.0249
38	15	40	519000	2595	DFT-s-OFDM 256 QAM	1@1	16.94	12.7	0.0186
38	15	40	519000	2595	DFT-s-OFDM 256 QAM	1@214	17.37	13.13	0.0206
38	15	40	519000	2595	CP-OFDM QPSK	108@54	21.2	16.96	0.0497
38	15	40	519000	2595	CP-OFDM QPSK	1@1	20.27	16.03	0.0401
38	15	40	519000	2595	CP-OFDM QPSK	1@214	20.63	16.39	0.0436
38	15	40	520000	2600	DFT-s-OFDM PI/2 BPSK	108@54	22.86	18.62	0.0728
38	15	40	520000	2600	DFT-s-OFDM PI/2 BPSK	1@1	21.6	17.36	0.0545
38	15	40	520000	2600	DFT-s-OFDM PI/2 BPSK	1@214	22.21	17.97	0.0627
38	15	40	520000	2600	DFT-s-OFDM QPSK	108@54	22.75	18.51	0.0710
38	15	40	520000	2600	DFT-s-OFDM QPSK	1@1	21.61	17.37	0.0546
38	15	40	520000	2600	DFT-s-OFDM QPSK	1@214	22.26	18.02	0.0634
38	15	40	520000	2600	DFT-s-OFDM 16 QAM	108@54	21.76	17.52	0.0565
38	15	40	520000	2600	DFT-s-OFDM 16 QAM	1@1	20.85	16.61	0.0458



38	15	40	520000	2600	DFT-s-OFDM 16 QAM	1@214	21.27	17.03	0.0505
38	15	40	520000	2600	DFT-s-OFDM 64 QAM	108@54	20.26	16.02	0.0400
38	15	40	520000	2600	DFT-s-OFDM 64 QAM	1@1	19.43	15.19	0.0330
38	15	40	520000	2600	DFT-s-OFDM 64 QAM	1@214	19.91	15.67	0.0369
38	15	40	520000	2600	DFT-s-OFDM 256 QAM	108@54	18.26	14.02	0.0252
38	15	40	520000	2600	DFT-s-OFDM 256 QAM	1@1	16.96	12.72	0.0187
38	15	40	520000	2600	DFT-s-OFDM 256 QAM	1@214	17.42	13.18	0.0208
38	15	40	520000	2600	CP-OFDM QPSK	108@54	21.24	17	0.0501
38	15	40	520000	2600	CP-OFDM QPSK	1@1	20.25	16.01	0.0399
38	15	40	520000	2600	CP-OFDM QPSK	1@214	20.64	16.4	0.0437



5G NR n41 - SCS 15k(ANT4):

NR Band	SCS	BandWidth	Arfcn	Freq(MHz)	Modulation	RB	Conducted Power (dBm)	EIRP(dBm)	EIRP(W)
41	15	50	504201	2521.005	DFT-s-OFDM PI/2 BPSK	135@67	22.91	18.67	0.0736
41	15	50	504201	2521.005	DFT-s-OFDM PI/2 BPSK	1@1	22.4	18.16	0.0655
41	15	50	504201	2521.005	DFT-s-OFDM PI/2 BPSK	1@268	22.12	17.88	0.0614
41	15	50	504201	2521.005	DFT-s-OFDM QPSK	135@67	22.89	18.65	0.0733
41	15	50	504201	2521.005	DFT-s-OFDM QPSK	1@1	22.61	18.37	0.0687
41	15	50	504201	2521.005	DFT-s-OFDM QPSK	1@268	22.24	18	0.0631
41	15	50	504201	2521.005	DFT-s-OFDM 16 QAM	135@67	22.07	17.83	0.0607
41	15	50	504201	2521.005	DFT-s-OFDM 16 QAM	1@1	21.66	17.42	0.0552
41	15	50	504201	2521.005	DFT-s-OFDM 16 QAM	1@268	21.41	17.17	0.0521
41	15	50	504201	2521.005	DFT-s-OFDM 64 QAM	135@67	20.56	16.32	0.0429
41	15	50	504201	2521.005	DFT-s-OFDM 64 QAM	1@1	20.32	16.08	0.0406
41	15	50	504201	2521.005	DFT-s-OFDM 64 QAM	1@268	19.99	15.75	0.0376
41	15	50	504201	2521.005	DFT-s-OFDM 256 QAM	135@67	18.51	14.27	0.0267
41	15	50	504201	2521.005	DFT-s-OFDM 256 QAM	1@1	17.79	13.55	0.0226
41	15	50	504201	2521.005	DFT-s-OFDM 256 QAM	1@268	17.4	13.16	0.0207
41	15	50	504201	2521.005	CP-OFDM QPSK	135@67	21.5	17.26	0.0532
41	15	50	504201	2521.005	CP-OFDM QPSK	1@1	20.99	16.75	0.0473
41	15	50	504201	2521.005	CP-OFDM QPSK	1@268	20.71	16.47	0.0444
41	15	50	518601	2593.005	DFT-s-OFDM PI/2 BPSK	135@67	22.66	18.42	0.0695
41	15	50	518601	2593.005	DFT-s-OFDM PI/2 BPSK	1@1	21.88	17.64	0.0581
41	15	50	518601	2593.005	DFT-s-OFDM PI/2 BPSK	1@268	22.53	18.29	0.0675
41	15	50	518601	2593.005	DFT-s-OFDM QPSK	135@67	22.64	18.4	0.0692
41	15	50	518601	2593.005	DFT-s-OFDM QPSK	1@1	21.89	17.65	0.0582
41	15	50	518601	2593.005	DFT-s-OFDM QPSK	1@268	22.49	18.25	0.0668
41	15	50	518601	2593.005	DFT-s-OFDM 16 QAM	135@67	21.66	17.42	0.0552
41	15	50	518601	2593.005	DFT-s-OFDM 16 QAM	1@1	21.08	16.84	0.0483
41	15	50	518601	2593.005	DFT-s-OFDM 16 QAM	1@268	21.66	17.42	0.0552
41	15	50	518601	2593.005	DFT-s-OFDM 64 QAM	135@67	20.14	15.9	0.0389
41	15	50	518601	2593.005	DFT-s-OFDM 64 QAM	1@1	19.72	15.48	0.0353
41	15	50	518601	2593.005	DFT-s-OFDM 64 QAM	1@268	20.16	15.92	0.0391
41	15	50	518601	2593.005	DFT-s-OFDM 256 QAM	135@67	18.15	13.91	0.0246
41	15	50	518601	2593.005	DFT-s-OFDM 256 QAM	1@1	17.3	13.06	0.0202
41	15	50	518601	2593.005	DFT-s-OFDM 256 QAM	1@268	17.75	13.51	0.0224
41	15	50	518601	2593.005	CP-OFDM QPSK	135@67	21.14	16.9	0.0490
41	15	50	518601	2593.005	CP-OFDM QPSK	1@1	20.44	16.2	0.0417
41	15	50	518601	2593.005	CP-OFDM QPSK	1@268	20.91	16.67	0.0465
41	15	50	532998	2664.99	DFT-s-OFDM PI/2 BPSK	135@67	22.98	18.74	0.0748
41	15	50	532998	2664.99	DFT-s-OFDM PI/2 BPSK	1@1	22.58	18.34	0.0682
41	15	50	532998	2664.99	DFT-s-OFDM PI/2 BPSK	1@268	22.89	18.65	0.0733
41	15	50	532998	2664.99	DFT-s-OFDM QPSK	135@67	22.95	18.71	0.0743
41	15	50	532998	2664.99	DFT-s-OFDM QPSK	1@1	22.67	18.43	0.0697
41	15	50	532998	2664.99	DFT-s-OFDM QPSK	1@268	22.92	18.68	0.0738
41	15	50	532998	2664.99	DFT-s-OFDM 16 QAM	135@67	22.01	17.77	0.0598
41	15	50	532998	2664.99	DFT-s-OFDM 16 QAM	1@1	21.74	17.5	0.0562
41	15	50	532998	2664.99	DFT-s-OFDM 16 QAM	1@268	21.95	17.71	0.0590
41	15	50	532998	2664.99	DFT-s-OFDM 64 QAM	135@67	20.49	16.25	0.0422
41	15	50	532998	2664.99	DFT-s-OFDM 64 QAM	1@1	20.29	16.05	0.0403
41	15	50	532998	2664.99	DFT-s-OFDM 64 QAM	1@268	20.56	16.32	0.0429
41	15	50	532998	2664.99	DFT-s-OFDM 256 QAM	135@67	18.47	14.23	0.0265
41	15	50	532998	2664.99	DFT-s-OFDM 256 QAM	1@1	17.87	13.63	0.0231
41	15	50	532998	2664.99	DFT-s-OFDM 256 QAM	1@268	18.11	13.87	0.0244
41	15	50	532998	2664.99	CP-OFDM QPSK	135@67	21.44	17.2	0.0525
41	15	50	532998	2664.99	CP-OFDM QPSK	1@1	21.07	16.83	0.0482



41	15	50	532998	2664.99	CP-OFDM QPSK	1@268	21.23	16.99	0.0500
41	15	10	500202	2501.01	DFT-s-OFDM PI/2 BPSK	1@1	22.29	18.05	0.0638
41	15	10	500202	2501.01	DFT-s-OFDM QPSK	1@1	22.19	17.95	0.0624
41	15	10	500202	2501.01	DFT-s-OFDM 16 QAM	1@1	21.56	17.32	0.0540
41	15	10	518601	2593.005	DFT-s-OFDM PI/2 BPSK	1@1	22.11	17.87	0.0612
41	15	10	518601	2593.005	DFT-s-OFDM QPSK	1@1	22.08	17.84	0.0608
41	15	10	518601	2593.005	DFT-s-OFDM 16 QAM	1@1	21.58	17.34	0.0542
41	15	10	537000	2685	DFT-s-OFDM PI/2 BPSK	1@1	22.7	18.46	0.0701
41	15	10	537000	2685	DFT-s-OFDM QPSK	1@1	22.29	18.05	0.0638
41	15	10	537000	2685	DFT-s-OFDM 16 QAM	1@1	21.64	17.4	0.0550
41	15	15	500700	2503.5	DFT-s-OFDM PI/2 BPSK	1@1	22.45	18.21	0.0662
41	15	15	500700	2503.5	DFT-s-OFDM QPSK	1@1	22.42	18.18	0.0658
41	15	15	500700	2503.5	DFT-s-OFDM 16 QAM	1@1	21.68	17.44	0.0555
41	15	15	518601	2593.005	DFT-s-OFDM PI/2 BPSK	1@1	22.19	17.95	0.0624
41	15	15	518601	2593.005	DFT-s-OFDM QPSK	1@1	22.13	17.89	0.0615
41	15	15	518601	2593.005	DFT-s-OFDM 16 QAM	1@1	21.52	17.28	0.0535
41	15	15	536499	2682.495	DFT-s-OFDM PI/2 BPSK	1@1	22.7	18.46	0.0701
41	15	15	536499	2682.495	DFT-s-OFDM QPSK	1@1	22.51	18.27	0.0671
41	15	15	536499	2682.495	DFT-s-OFDM 16 QAM	1@1	21.69	17.45	0.0556
41	15	20	501201	2506.005	DFT-s-OFDM PI/2 BPSK	1@1	22.35	18.11	0.0647
41	15	20	501201	2506.005	DFT-s-OFDM QPSK	1@1	22.32	18.08	0.0643
41	15	20	501201	2506.005	DFT-s-OFDM 16 QAM	1@1	21.49	17.25	0.0531
41	15	20	518601	2593.005	DFT-s-OFDM PI/2 BPSK	1@1	22.19	17.95	0.0624
41	15	20	518601	2593.005	DFT-s-OFDM QPSK	1@1	22.13	17.89	0.0615
41	15	20	518601	2593.005	DFT-s-OFDM 16 QAM	1@1	21.62	17.38	0.0547
41	15	20	535998	2679.99	DFT-s-OFDM PI/2 BPSK	1@1	22.67	18.43	0.0697
41	15	20	535998	2679.99	DFT-s-OFDM QPSK	1@1	22.54	18.3	0.0676
41	15	20	535998	2679.99	DFT-s-OFDM 16 QAM	1@1	21.68	17.44	0.0555
41	15	30	502200	2511	DFT-s-OFDM PI/2 BPSK	1@1	22.63	18.39	0.0690
41	15	30	502200	2511	DFT-s-OFDM QPSK	1@1	22.54	18.3	0.0676
41	15	30	502200	2511	DFT-s-OFDM 16 QAM	1@1	21.69	17.45	0.0556
41	15	30	518601	2593.005	DFT-s-OFDM PI/2 BPSK	1@1	22.19	17.95	0.0624
41	15	30	518601	2593.005	DFT-s-OFDM QPSK	1@1	22.13	17.89	0.0615
41	15	30	518601	2593.005	DFT-s-OFDM 16 QAM	1@1	21.43	17.19	0.0524
41	15	30	534999	2674.995	DFT-s-OFDM PI/2 BPSK	1@1	22.39	18.15	0.0653
41	15	30	534999	2674.995	DFT-s-OFDM QPSK	1@1	22.37	18.13	0.0650
41	15	30	534999	2674.995	DFT-s-OFDM 16 QAM	1@1	21.34	17.1	0.0513
41	15	40	503202	2516.01	DFT-s-OFDM PI/2 BPSK	1@1	22.38	18.14	0.0652
41	15	40	503202	2516.01	DFT-s-OFDM QPSK	1@1	22.36	18.12	0.0649
41	15	40	503202	2516.01	DFT-s-OFDM 16 QAM	1@1	21.36	17.12	0.0515
41	15	40	518598	2593.005	DFT-s-OFDM PI/2 BPSK	1@1	22.54	18.3	0.0676
41	15	40	518598	2593.005	DFT-s-OFDM QPSK	1@1	22.53	18.29	0.0675
41	15	40	518598	2593.005	DFT-s-OFDM 16 QAM	1@1	21.64	17.4	0.0550
41	15	40	534000	2670	DFT-s-OFDM PI/2 BPSK	1@1	22.36	18.12	0.0649
41	15	40	534000	2670	DFT-s-OFDM QPSK	1@1	22.32	18.08	0.0643
41	15	40	534000	2670	DFT-s-OFDM 16 QAM	1@1	21.51	17.27	0.0533



5G NR n41 - SCS 30k(ANT4):

NR Band	SCS	BandWidth	Arfcn	Freq(MHz)	Modulation	RB	Conducted Power (dBm)	EIRP(dBm)	EIRP(W)
41	30	10	500202	2501.01	DFT-s-OFDM PI/2 BPSK	1@1	22.55	18.31	0.0678
41	30	10	500202	2501.01	DFT-s-OFDM QPSK	1@1	22.53	18.29	0.0675
41	30	10	500202	2501.01	DFT-s-OFDM 16 QAM	1@1	21.66	17.42	0.0552
41	30	10	518598	2592.99	DFT-s-OFDM PI/2 BPSK	1@1	22.27	18.03	0.0635
41	30	10	518598	2592.99	DFT-s-OFDM QPSK	1@1	22.28	18.04	0.0637
41	30	10	518598	2592.99	DFT-s-OFDM 16 QAM	1@1	21.62	17.38	0.0547
41	30	10	537000	2685	DFT-s-OFDM PI/2 BPSK	1@1	22.77	18.53	0.0713
41	30	10	537000	2685	DFT-s-OFDM QPSK	1@1	22.78	18.54	0.0714
41	30	10	537000	2685	DFT-s-OFDM 16 QAM	1@1	22.12	17.88	0.0614
41	30	15	500700	2503.5	DFT-s-OFDM PI/2 BPSK	1@1	22.46	18.22	0.0664
41	30	15	500700	2503.5	DFT-s-OFDM QPSK	1@1	22.53	18.29	0.0675
41	30	15	500700	2503.5	DFT-s-OFDM 16 QAM	1@1	21.66	17.42	0.0552
41	30	15	518598	2592.99	DFT-s-OFDM PI/2 BPSK	1@1	22.17	17.93	0.0621
41	30	15	518598	2592.99	DFT-s-OFDM QPSK	1@1	22.15	17.91	0.0618
41	30	15	518598	2592.99	DFT-s-OFDM 16 QAM	1@1	21.51	17.27	0.0533
41	30	15	536496	2682.48	DFT-s-OFDM PI/2 BPSK	1@1	22.82	18.58	0.0721
41	30	15	536496	2682.48	DFT-s-OFDM QPSK	1@1	22.81	18.57	0.0719
41	30	15	536496	2682.48	DFT-s-OFDM 16 QAM	1@1	22.06	17.82	0.0605
41	30	20	501204	2506.02	DFT-s-OFDM PI/2 BPSK	1@1	22.46	18.22	0.0664
41	30	20	501204	2506.02	DFT-s-OFDM QPSK	1@1	22.53	18.29	0.0675
41	30	20	501204	2506.02	DFT-s-OFDM 16 QAM	1@1	21.71	17.47	0.0558
41	30	20	518598	2592.99	DFT-s-OFDM PI/2 BPSK	1@1	22.08	17.84	0.0608
41	30	20	518598	2592.99	DFT-s-OFDM QPSK	1@1	22.09	17.85	0.0610
41	30	20	518598	2592.99	DFT-s-OFDM 16 QAM	1@1	21.48	17.24	0.0530
41	30	20	535998	2679.99	DFT-s-OFDM PI/2 BPSK	1@1	22.83	18.59	0.0723
41	30	20	535998	2679.99	DFT-s-OFDM QPSK	1@1	22.89	18.65	0.0733
41	30	20	535998	2679.99	DFT-s-OFDM 16 QAM	1@1	22.03	17.79	0.0601
41	30	30	502200	2511	DFT-s-OFDM PI/2 BPSK	1@1	22.21	17.97	0.0627
41	30	30	502200	2511	DFT-s-OFDM QPSK	1@1	22.35	18.11	0.0647
41	30	30	502200	2511	DFT-s-OFDM 16 QAM	1@1	21.53	17.29	0.0536
41	30	30	518598	2592.99	DFT-s-OFDM PI/2 BPSK	1@1	21.87	17.63	0.0579
41	30	30	518598	2592.99	DFT-s-OFDM QPSK	1@1	21.88	17.64	0.0581
41	30	30	518598	2592.99	DFT-s-OFDM 16 QAM	1@1	21.18	16.94	0.0494
41	30	30	534996	2674.98	DFT-s-OFDM PI/2 BPSK	1@1	22.57	18.33	0.0681
41	30	30	534996	2674.98	DFT-s-OFDM QPSK	1@1	22.55	18.31	0.0678
41	30	30	534996	2674.98	DFT-s-OFDM 16 QAM	1@1	21.72	17.48	0.0560
41	30	40	503202	2516.01	DFT-s-OFDM PI/2 BPSK	1@1	22.02	17.78	0.0600
41	30	40	503202	2516.01	DFT-s-OFDM QPSK	1@1	22.02	17.78	0.0600
41	30	40	503202	2516.01	DFT-s-OFDM 16 QAM	1@1	21.2	16.96	0.0497
41	30	40	518598	2592.99	DFT-s-OFDM PI/2 BPSK	1@1	21.59	17.35	0.0543
41	30	40	518598	2592.99	DFT-s-OFDM QPSK	1@1	21.58	17.34	0.0542
41	30	40	518598	2592.99	DFT-s-OFDM 16 QAM	1@1	20.87	16.63	0.0460
41	30	40	534000	2670	DFT-s-OFDM PI/2 BPSK	1@1	22.37	18.13	0.0650
41	30	40	534000	2670	DFT-s-OFDM QPSK	1@1	22.34	18.1	0.0646
41	30	40	534000	2670	DFT-s-OFDM 16 QAM	1@1	21.49	17.25	0.0531
41	30	50	504204	2521.02	DFT-s-OFDM PI/2 BPSK	1@1	22.2	17.96	0.0625
41	30	50	504204	2521.02	DFT-s-OFDM QPSK	1@1	22.25	18.01	0.0632
41	30	50	504204	2521.02	DFT-s-OFDM 16 QAM	1@1	21.39	17.15	0.0519
41	30	50	518598	2592.99	DFT-s-OFDM PI/2 BPSK	1@1	21.75	17.51	0.0564
41	30	50	518598	2592.99	DFT-s-OFDM QPSK	1@1	21.74	17.5	0.0562
41	30	50	518598	2592.99	DFT-s-OFDM 16 QAM	1@1	21.15	16.91	0.0491
41	30	50	532998	2664.99	DFT-s-OFDM PI/2 BPSK	1@1	22.65	18.41	0.0693
41	30	50	532998	2664.99	DFT-s-OFDM QPSK	1@1	22.6	18.36	0.0685



41	30	50	532998	2664.99	DFT-s-OFDM 16 QAM	1@1	21.75	17.51	0.0564
41	30	60	505200	2526	DFT-s-OFDM PI/2 BPSK	1@1	22.18	17.94	0.0622
41	30	60	505200	2526	DFT-s-OFDM QPSK	1@1	22.2	17.96	0.0625
41	30	60	505200	2526	DFT-s-OFDM 16 QAM	1@1	21.34	17.1	0.0513
41	30	60	518598	2592.99	DFT-s-OFDM PI/2 BPSK	1@1	21.66	17.42	0.0552
41	30	60	518598	2592.99	DFT-s-OFDM QPSK	1@1	21.63	17.39	0.0548
41	30	60	518598	2592.99	DFT-s-OFDM 16 QAM	1@1	21.03	16.79	0.0478
41	30	60	531996	2659.98	DFT-s-OFDM PI/2 BPSK	1@1	22.43	18.19	0.0659
41	30	60	531996	2659.98	DFT-s-OFDM QPSK	1@1	22.42	18.18	0.0658
41	30	60	531996	2659.98	DFT-s-OFDM 16 QAM	1@1	21.58	17.34	0.0542
41	30	70	505200	2531.01	DFT-s-OFDM PI/2 BPSK	1@1	22.12	17.88	0.0614
41	30	70	505200	2531.01	DFT-s-OFDM QPSK	1@1	22.18	17.94	0.0622
41	30	70	505200	2531.01	DFT-s-OFDM 16 QAM	1@1	21.31	17.07	0.0509
41	30	70	518598	2592.99	DFT-s-OFDM PI/2 BPSK	1@1	21.57	17.33	0.0541
41	30	70	518598	2592.99	DFT-s-OFDM QPSK	1@1	21.62	17.38	0.0547
41	30	70	518598	2592.99	DFT-s-OFDM 16 QAM	1@1	21.03	16.79	0.0478
41	30	70	531996	2655	DFT-s-OFDM PI/2 BPSK	1@1	22.32	18.08	0.0643
41	30	70	531996	2655	DFT-s-OFDM QPSK	1@1	22.34	18.1	0.0646
41	30	70	531996	2655	DFT-s-OFDM 16 QAM	1@1	21.37	17.13	0.0516
41	30	80	507204	2536.02	DFT-s-OFDM PI/2 BPSK	1@1	21.95	17.71	0.0590
41	30	80	507204	2536.02	DFT-s-OFDM QPSK	1@1	22.17	17.93	0.0621
41	30	80	507204	2536.02	DFT-s-OFDM 16 QAM	1@1	21.05	16.81	0.0480
41	30	80	518598	2592.99	DFT-s-OFDM PI/2 BPSK	1@1	21.52	17.28	0.0535
41	30	80	518598	2592.99	DFT-s-OFDM QPSK	1@1	21.54	17.3	0.0537
41	30	80	518598	2592.99	DFT-s-OFDM 16 QAM	1@1	20.97	16.73	0.0471
41	30	80	529998	2649.99	DFT-s-OFDM PI/2 BPSK	1@1	22.2	17.96	0.0625
41	30	80	529998	2649.99	DFT-s-OFDM QPSK	1@1	22.18	17.94	0.0622
41	30	80	529998	2649.99	DFT-s-OFDM 16 QAM	1@1	21.31	17.07	0.0509
41	30	90	508200	2541	DFT-s-OFDM PI/2 BPSK	1@1	21.79	17.55	0.0569
41	30	90	508200	2541	DFT-s-OFDM QPSK	1@1	21.85	17.61	0.0577
41	30	90	508200	2541	DFT-s-OFDM 16 QAM	1@1	20.93	16.69	0.0467
41	30	90	518598	2592.99	DFT-s-OFDM PI/2 BPSK	1@1	21.43	17.19	0.0524
41	30	90	518598	2592.99	DFT-s-OFDM QPSK	1@1	21.41	17.17	0.0521
41	30	90	518598	2592.99	DFT-s-OFDM 16 QAM	1@1	20.96	16.72	0.0470
41	30	90	528996	2644.98	DFT-s-OFDM PI/2 BPSK	1@1	22.05	17.81	0.0604
41	30	90	528996	2644.98	DFT-s-OFDM QPSK	1@1	22.03	17.79	0.0601
41	30	90	528996	2644.98	DFT-s-OFDM 16 QAM	1@1	21.19	16.95	0.0495
41	30	100	509202	2546.01	DFT-s-OFDM PI/2 BPSK	135@67	22.55	18.31	0.0678
41	30	100	509202	2546.01	DFT-s-OFDM PI/2 BPSK	1@1	21.8	17.56	0.0570
41	30	100	509202	2546.01	DFT-s-OFDM PI/2 BPSK	1@271	21.58	17.34	0.0542
41	30	100	509202	2546.01	DFT-s-OFDM QPSK	135@67	22.4	18.16	0.0655
41	30	100	509202	2546.01	DFT-s-OFDM QPSK	1@1	21.81	17.57	0.0571
41	30	100	509202	2546.01	DFT-s-OFDM QPSK	1@271	21.59	17.35	0.0543
41	30	100	509202	2546.01	DFT-s-OFDM 16 QAM	135@67	21.6	17.36	0.0545
41	30	100	509202	2546.01	DFT-s-OFDM 16 QAM	1@1	20.73	16.49	0.0446
41	30	100	509202	2546.01	DFT-s-OFDM 16 QAM	1@271	20.94	16.7	0.0468
41	30	100	509202	2546.01	DFT-s-OFDM 64 QAM	135@67	20.09	15.85	0.0385
41	30	100	509202	2546.01	DFT-s-OFDM 64 QAM	1@1	19.57	15.33	0.0341
41	30	100	509202	2546.01	DFT-s-OFDM 64 QAM	1@271	19.37	15.13	0.0326
41	30	100	509202	2546.01	DFT-s-OFDM 256 QAM	135@67	18.04	13.8	0.0240
41	30	100	509202	2546.01	DFT-s-OFDM 256 QAM	1@1	17.43	13.19	0.0208
41	30	100	509202	2546.01	DFT-s-OFDM 256 QAM	1@271	17.21	12.97	0.0198
41	30	100	509202	2546.01	CP-OFDM QPSK	137@68	21.06	16.82	0.0481
41	30	100	509202	2546.01	CP-OFDM QPSK	1@1	20.75	16.51	0.0448
41	30	100	509202	2546.01	CP-OFDM QPSK	1@271	20.58	16.34	0.0431
41	30	100	518598	2592.99	DFT-s-OFDM PI/2 BPSK	135@67	22.54	18.3	0.0676



41	30	100	518598	2592.99	DFT-s-OFDM PI/2 BPSK	1@1	21.35	17.11	0.0514
41	30	100	518598	2592.99	DFT-s-OFDM PI/2 BPSK	1@271	22.31	18.07	0.0641
41	30	100	518598	2592.99	DFT-s-OFDM QPSK	135@67	22.29	18.05	0.0638
41	30	100	518598	2592.99	DFT-s-OFDM QPSK	1@1	21.36	17.12	0.0515
41	30	100	518598	2592.99	DFT-s-OFDM QPSK	1@271	22.3	18.06	0.0640
41	30	100	518598	2592.99	DFT-s-OFDM 16 QAM	135@67	21.53	17.29	0.0536
41	30	100	518598	2592.99	DFT-s-OFDM 16 QAM	1@1	20.81	16.57	0.0454
41	30	100	518598	2592.99	DFT-s-OFDM 16 QAM	1@271	21.42	17.18	0.0522
41	30	100	518598	2592.99	DFT-s-OFDM 64 QAM	135@67	20.01	15.77	0.0378
41	30	100	518598	2592.99	DFT-s-OFDM 64 QAM	1@1	19.4	15.16	0.0328
41	30	100	518598	2592.99	DFT-s-OFDM 64 QAM	1@271	19.95	15.71	0.0372
41	30	100	518598	2592.99	DFT-s-OFDM 256 QAM	135@67	17.94	13.7	0.0234
41	30	100	518598	2592.99	DFT-s-OFDM 256 QAM	1@1	16.9	12.66	0.0185
41	30	100	518598	2592.99	DFT-s-OFDM 256 QAM	1@271	17.46	13.22	0.0210
41	30	100	518598	2592.99	CP-OFDM QPSK	137@68	21.02	16.78	0.0476
41	30	100	518598	2592.99	CP-OFDM QPSK	1@1	20.26	16.02	0.0400
41	30	100	518598	2592.99	CP-OFDM QPSK	1@271	20.88	16.64	0.0461
41	30	100	528000	2640	DFT-s-OFDM PI/2 BPSK	135@67	22.89	18.65	0.0733
41	30	100	528000	2640	DFT-s-OFDM PI/2 BPSK	1@1	21.34	17.1	0.0513
41	30	100	528000	2640	DFT-s-OFDM PI/2 BPSK	1@271	22.49	18.25	0.0668
41	30	100	528000	2640	DFT-s-OFDM QPSK	135@67	22.83	18.59	0.0723
41	30	100	528000	2640	DFT-s-OFDM QPSK	1@1	21.36	17.12	0.0515
41	30	100	528000	2640	DFT-s-OFDM QPSK	1@271	22.46	18.22	0.0664
41	30	100	528000	2640	DFT-s-OFDM 16 QAM	135@67	21.89	17.65	0.0582
41	30	100	528000	2640	DFT-s-OFDM 16 QAM	1@1	20.66	16.42	0.0439
41	30	100	528000	2640	DFT-s-OFDM 16 QAM	1@271	21.43	17.19	0.0524
41	30	100	528000	2640	DFT-s-OFDM 64 QAM	135@67	20.34	16.1	0.0407
41	30	100	528000	2640	DFT-s-OFDM 64 QAM	1@1	19.12	14.88	0.0308
41	30	100	528000	2640	DFT-s-OFDM 64 QAM	1@271	19.87	15.63	0.0366
41	30	100	528000	2640	DFT-s-OFDM 256 QAM	135@67	18.29	14.05	0.0254
41	30	100	528000	2640	DFT-s-OFDM 256 QAM	1@1	16.99	12.75	0.0188
41	30	100	528000	2640	DFT-s-OFDM 256 QAM	1@271	17.73	13.49	0.0223
41	30	100	528000	2640	CP-OFDM QPSK	137@68	21.31	17.07	0.0509
41	30	100	528000	2640	CP-OFDM QPSK	1@1	20.28	16.04	0.0402
41	30	100	528000	2640	CP-OFDM QPSK	1@271	21.04	16.8	0.0479



5G NR n77 - SCS 15k(ANT5):

NR Band	SCS	BandWidth	Arfcn	Freq(MHz)	Modulation	RB	Conducted Power (dBm)	EIRP(dBm)	EIRP(W)
77	15	50	648334	3725.01	DFT-s-OFDM PI/2 BPSK	135@67	25.53	21.82	0.1521
77	15	50	648334	3725.01	DFT-s-OFDM PI/2 BPSK	1@1	25.32	21.61	0.1449
77	15	50	648334	3725.01	DFT-s-OFDM PI/2 BPSK	1@268	25.31	21.6	0.1445
77	15	50	648334	3725.01	DFT-s-OFDM QPSK	135@67	25.55	21.84	0.1528
77	15	50	648334	3725.01	DFT-s-OFDM QPSK	1@1	25.28	21.57	0.1435
77	15	50	648334	3725.01	DFT-s-OFDM QPSK	1@268	25.27	21.56	0.1432
77	15	50	648334	3725.01	DFT-s-OFDM 16 QAM	135@67	24.51	20.8	0.1202
77	15	50	648334	3725.01	DFT-s-OFDM 16 QAM	1@1	24.34	20.63	0.1156
77	15	50	648334	3725.01	DFT-s-OFDM 16 QAM	1@268	24.38	20.67	0.1167
77	15	50	648334	3725.01	DFT-s-OFDM 64 QAM	135@67	23.02	19.31	0.0853
77	15	50	648334	3725.01	DFT-s-OFDM 64 QAM	1@1	22.96	19.25	0.0841
77	15	50	648334	3725.01	DFT-s-OFDM 64 QAM	1@268	22.92	19.21	0.0834
77	15	50	648334	3725.01	DFT-s-OFDM 256 QAM	135@67	21.11	17.4	0.0550
77	15	50	648334	3725.01	DFT-s-OFDM 256 QAM	1@1	20.53	16.82	0.0481
77	15	50	648334	3725.01	DFT-s-OFDM 256 QAM	1@268	20.61	16.9	0.0490
77	15	50	648334	3725.01	CP-OFDM QPSK	135@67	24.07	20.36	0.1086
77	15	50	648334	3725.01	CP-OFDM QPSK	1@1	23.75	20.04	0.1009
77	15	50	648334	3725.01	CP-OFDM QPSK	1@268	23.77	20.06	0.1014
77	15	50	656000	3840	DFT-s-OFDM PI/2 BPSK	135@67	25.9	22.19	0.1656
77	15	50	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	25.45	21.74	0.1493
77	15	50	656000	3840	DFT-s-OFDM PI/2 BPSK	1@268	25.57	21.86	0.1535
77	15	50	656000	3840	DFT-s-OFDM QPSK	135@67	25.76	22.05	0.1603
77	15	50	656000	3840	DFT-s-OFDM QPSK	1@1	25.42	21.71	0.1483
77	15	50	656000	3840	DFT-s-OFDM QPSK	1@268	25.53	21.82	0.1521
77	15	50	656000	3840	DFT-s-OFDM 16 QAM	135@67	24.76	21.05	0.1274
77	15	50	656000	3840	DFT-s-OFDM 16 QAM	1@1	24.46	20.75	0.1189
77	15	50	656000	3840	DFT-s-OFDM 16 QAM	1@268	24.53	20.82	0.1208
77	15	50	656000	3840	DFT-s-OFDM 64 QAM	135@67	23.28	19.57	0.0906
77	15	50	656000	3840	DFT-s-OFDM 64 QAM	1@1	23.12	19.41	0.0873
77	15	50	656000	3840	DFT-s-OFDM 64 QAM	1@268	23.16	19.45	0.0881
77	15	50	656000	3840	DFT-s-OFDM 256 QAM	135@67	21.34	17.63	0.0579
77	15	50	656000	3840	DFT-s-OFDM 256 QAM	1@1	20.76	17.05	0.0507
77	15	50	656000	3840	DFT-s-OFDM 256 QAM	1@268	20.9	17.19	0.0524
77	15	50	656000	3840	CP-OFDM QPSK	135@67	24.26	20.55	0.1135
77	15	50	656000	3840	CP-OFDM QPSK	1@1	23.89	20.18	0.1042
77	15	50	656000	3840	CP-OFDM QPSK	1@268	23.96	20.25	0.1059
77	15	50	663666	3954.99	DFT-s-OFDM PI/2 BPSK	135@67	25.55	21.84	0.1528
77	15	50	663666	3954.99	DFT-s-OFDM PI/2 BPSK	1@1	25.34	21.63	0.1455
77	15	50	663666	3954.99	DFT-s-OFDM PI/2 BPSK	1@268	25.31	21.6	0.1445
77	15	50	663666	3954.99	DFT-s-OFDM QPSK	135@67	25.55	21.84	0.1528
77	15	50	663666	3954.99	DFT-s-OFDM QPSK	1@1	25.3	21.59	0.1442
77	15	50	663666	3954.99	DFT-s-OFDM QPSK	1@268	25.3	21.59	0.1442
77	15	50	663666	3954.99	DFT-s-OFDM 16 QAM	135@67	24.52	20.81	0.1205
77	15	50	663666	3954.99	DFT-s-OFDM 16 QAM	1@1	24.3	20.59	0.1146
77	15	50	663666	3954.99	DFT-s-OFDM 16 QAM	1@268	24.36	20.65	0.1161
77	15	50	663666	3954.99	DFT-s-OFDM 64 QAM	135@67	23.09	19.38	0.0867
77	15	50	663666	3954.99	DFT-s-OFDM 64 QAM	1@1	22.98	19.27	0.0845
77	15	50	663666	3954.99	DFT-s-OFDM 64 QAM	1@268	23.02	19.31	0.0853
77	15	50	663666	3954.99	DFT-s-OFDM 256 QAM	135@67	21.16	17.45	0.0556
77	15	50	663666	3954.99	DFT-s-OFDM 256 QAM	1@1	20.61	16.9	0.0490
77	15	50	663666	3954.99	DFT-s-OFDM 256 QAM	1@268	20.67	16.96	0.0497
77	15	50	663666	3954.99	CP-OFDM QPSK	135@67	24.01	20.3	0.1072
77	15	50	663666	3954.99	CP-OFDM QPSK	1@1	23.71	20	0.1000





77	15	50	663666	3954.99	CP-OFDM QPSK	1@268	23.78	20.07	0.1016
77	15	10	647000	3705	DFT-s-OFDM PI/2 BPSK	1@1	25.25	21.54	0.1426
77	15	10	647000	3705	DFT-s-OFDM QPSK	1@1	25.23	21.52	0.1419
77	15	10	647000	3705	DFT-s-OFDM 16 QAM	1@1	24.3	20.59	0.1146
77	15	10	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	25.26	21.55	0.1429
77	15	10	656000	3840	DFT-s-OFDM QPSK	1@1	25.04	21.33	0.1358
77	15	10	656000	3840	DFT-s-OFDM 16 QAM	1@1	24.07	20.36	0.1086
77	15	10	665000	3975	DFT-s-OFDM PI/2 BPSK	1@1	25.01	21.3	0.1349
77	15	10	665000	3975	DFT-s-OFDM QPSK	1@1	24.95	21.24	0.1330
77	15	10	665000	3975	DFT-s-OFDM 16 QAM	1@1	24.02	20.31	0.1074
77	15	15	647167	3707.505	DFT-s-OFDM PI/2 BPSK	1@1	25.12	21.41	0.1384
77	15	15	647167	3707.505	DFT-s-OFDM QPSK	1@1	25.06	21.35	0.1365
77	15	15	647167	3707.505	DFT-s-OFDM 16 QAM	1@1	24.16	20.45	0.1109
77	15	15	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	25.2	21.49	0.1409
77	15	15	656000	3840	DFT-s-OFDM QPSK	1@1	25.17	21.46	0.1400
77	15	15	656000	3840	DFT-s-OFDM 16 QAM	1@1	24.19	20.48	0.1117
77	15	15	664833	3972.495	DFT-s-OFDM PI/2 BPSK	1@1	25.02	21.31	0.1352
77	15	15	664833	3972.495	DFT-s-OFDM QPSK	1@1	25.01	21.3	0.1349
77	15	15	664833	3972.495	DFT-s-OFDM 16 QAM	1@1	24.1	20.39	0.1094
77	15	20	647334	3710.01	DFT-s-OFDM PI/2 BPSK	1@1	25.14	21.43	0.1390
77	15	20	647334	3710.01	DFT-s-OFDM QPSK	1@1	25.07	21.36	0.1368
77	15	20	647334	3710.01	DFT-s-OFDM 16 QAM	1@1	24.11	20.4	0.1096
77	15	20	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	25.19	21.48	0.1406
77	15	20	656000	3840	DFT-s-OFDM QPSK	1@1	25.19	21.48	0.1406
77	15	20	656000	3840	DFT-s-OFDM 16 QAM	1@1	24.21	20.5	0.1122
77	15	20	664666	3969.99	DFT-s-OFDM PI/2 BPSK	1@1	25.05	21.34	0.1361
77	15	20	664666	3969.99	DFT-s-OFDM QPSK	1@1	25.02	21.31	0.1352
77	15	20	664666	3969.99	DFT-s-OFDM 16 QAM	1@1	24.07	20.36	0.1086
77	15	30	647667	3715.005	DFT-s-OFDM PI/2 BPSK	1@1	24.83	21.12	0.1294
77	15	30	647667	3715.005	DFT-s-OFDM QPSK	1@1	24.83	21.12	0.1294
77	15	30	647667	3715.005	DFT-s-OFDM 16 QAM	1@1	23.86	20.15	0.1035
77	15	30	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	24.96	21.25	0.1334
77	15	30	656000	3840	DFT-s-OFDM QPSK	1@1	24.95	21.24	0.1330
77	15	30	656000	3840	DFT-s-OFDM 16 QAM	1@1	24.01	20.3	0.1072
77	15	30	664332	3964.98	DFT-s-OFDM PI/2 BPSK	1@1	24.82	21.11	0.1291
77	15	30	664332	3964.98	DFT-s-OFDM QPSK	1@1	24.81	21.1	0.1288
77	15	30	664332	3964.98	DFT-s-OFDM 16 QAM	1@1	23.85	20.14	0.1033
77	15	40	648000	3720	DFT-s-OFDM PI/2 BPSK	1@1	24.62	20.91	0.1233
77	15	40	648000	3720	DFT-s-OFDM QPSK	1@1	24.61	20.9	0.1230
77	15	40	648000	3720	DFT-s-OFDM 16 QAM	1@1	23.63	19.92	0.0982
77	15	40	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	24.74	21.03	0.1268
77	15	40	656000	3840	DFT-s-OFDM QPSK	1@1	24.73	21.02	0.1265
77	15	40	656000	3840	DFT-s-OFDM 16 QAM	1@1	23.78	20.07	0.1016
77	15	40	664000	3960	DFT-s-OFDM PI/2 BPSK	1@1	24.85	21.14	0.1300
77	15	40	664000	3960	DFT-s-OFDM QPSK	1@1	24.8	21.09	0.1285
77	15	40	664000	3960	DFT-s-OFDM 16 QAM	1@1	23.8	20.09	0.1021



5G NR n77 - SCS 30k(ANT5):

NR Band	SCS	BandWidth	Arfcn	Freq(MHz)	Modulation	RB	Conducted Power (dBm)	EIRP(dBm)	EIRP(W)
77	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	135@67	25.6	21.89	0.1545
77	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	24.92	21.21	0.1321
77	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	1@271	25	21.29	0.1346
77	30	100	650000	3750	DFT-s-OFDM QPSK	135@67	25.59	21.88	0.1542
77	30	100	650000	3750	DFT-s-OFDM QPSK	1@1	24.94	21.23	0.1327
77	30	100	650000	3750	DFT-s-OFDM QPSK	1@271	25.02	21.31	0.1352
77	30	100	650000	3750	DFT-s-OFDM 16 QAM	135@67	24.6	20.89	0.1227
77	30	100	650000	3750	DFT-s-OFDM 16 QAM	1@1	23.87	20.16	0.1038
77	30	100	650000	3750	DFT-s-OFDM 16 QAM	1@271	23.96	20.25	0.1059
77	30	100	650000	3750	DFT-s-OFDM 64 QAM	135@67	23.1	19.39	0.0869
77	30	100	650000	3750	DFT-s-OFDM 64 QAM	1@1	22.39	18.68	0.0738
77	30	100	650000	3750	DFT-s-OFDM 64 QAM	1@271	22.47	18.76	0.0752
77	30	100	650000	3750	DFT-s-OFDM 256 QAM	135@67	21.13	17.42	0.0552
77	30	100	650000	3750	DFT-s-OFDM 256 QAM	1@1	20.33	16.62	0.0459
77	30	100	650000	3750	DFT-s-OFDM 256 QAM	1@271	20.46	16.75	0.0473
77	30	100	650000	3750	CP-OFDM QPSK	137@68	24.07	20.36	0.1086
77	30	100	650000	3750	CP-OFDM QPSK	1@1	23.48	19.77	0.0948
77	30	100	650000	3750	CP-OFDM QPSK	1@271	23.54	19.83	0.0962
77	30	100	656000	3840	DFT-s-OFDM PI/2 BPSK	135@67	25.77	22.06	0.1607
77	30	100	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	25	21.29	0.1346
77	30	100	656000	3840	DFT-s-OFDM PI/2 BPSK	1@271	25.07	21.36	0.1368
77	30	100	656000	3840	DFT-s-OFDM QPSK	135@67	25.79	22.08	0.1614
77	30	100	656000	3840	DFT-s-OFDM QPSK	1@1	25.05	21.34	0.1361
77	30	100	656000	3840	DFT-s-OFDM QPSK	1@271	25.12	21.41	0.1384
77	30	100	656000	3840	DFT-s-OFDM 16 QAM	135@67	24.82	21.11	0.1291
77	30	100	656000	3840	DFT-s-OFDM 16 QAM	1@1	23.97	20.26	0.1062
77	30	100	656000	3840	DFT-s-OFDM 16 QAM	1@271	24.03	20.32	0.1076
77	30	100	656000	3840	DFT-s-OFDM 64 QAM	135@67	23.3	19.59	0.0910
77	30	100	656000	3840	DFT-s-OFDM 64 QAM	1@1	22.52	18.81	0.0760
77	30	100	656000	3840	DFT-s-OFDM 64 QAM	1@271	22.53	18.82	0.0762
77	30	100	656000	3840	DFT-s-OFDM 256 QAM	135@67	21.37	17.66	0.0583
77	30	100	656000	3840	DFT-s-OFDM 256 QAM	1@1	20.47	16.76	0.0474
77	30	100	656000	3840	DFT-s-OFDM 256 QAM	1@271	20.58	16.87	0.0486
77	30	100	656000	3840	CP-OFDM QPSK	137@68	24.26	20.55	0.1135
77	30	100	656000	3840	CP-OFDM QPSK	1@1	23.58	19.87	0.0971
77	30	100	656000	3840	CP-OFDM QPSK	1@271	23.63	19.92	0.0982
77	30	100	662000	3930	DFT-s-OFDM PI/2 BPSK	135@67	25.86	22.15	0.1641
77	30	100	662000	3930	DFT-s-OFDM PI/2 BPSK	1@1	25.06	21.35	0.1365
77	30	100	662000	3930	DFT-s-OFDM PI/2 BPSK	1@271	25.23	21.52	0.1419
77	30	100	662000	3930	DFT-s-OFDM QPSK	135@67	25.85	22.14	0.1637
77	30	100	662000	3930	DFT-s-OFDM QPSK	1@1	25.09	21.38	0.1374
77	30	100	662000	3930	DFT-s-OFDM QPSK	1@271	25.27	21.56	0.1432
77	30	100	662000	3930	DFT-s-OFDM 16 QAM	135@67	24.92	21.21	0.1321
77	30	100	662000	3930	DFT-s-OFDM 16 QAM	1@1	24.18	20.47	0.1114
77	30	100	662000	3930	DFT-s-OFDM 16 QAM	1@271	24.32	20.61	0.1151
77	30	100	662000	3930	DFT-s-OFDM 64 QAM	135@67	23.41	19.7	0.0933
77	30	100	662000	3930	DFT-s-OFDM 64 QAM	1@1	22.57	18.86	0.0769
77	30	100	662000	3930	DFT-s-OFDM 64 QAM	1@271	22.77	19.06	0.0805
77	30	100	662000	3930	DFT-s-OFDM 256 QAM	135@67	21.45	17.74	0.0594
77	30	100	662000	3930	DFT-s-OFDM 256 QAM	1@1	20.52	16.81	0.0480
77	30	100	662000	3930	DFT-s-OFDM 256 QAM	1@271	20.74	17.03	0.0505
77	30	100	662000	3930	CP-OFDM QPSK	137@68	24.36	20.65	0.1161
77	30	100	662000	3930	CP-OFDM QPSK	1@1	23.66	19.95	0.0989



77	30	100	662000	3930	CP-OFDM QPSK	1@271	23.82	20.11	0.1026
77	30	10	647000	3705	DFT-s-OFDM PI/2 BPSK	1@1	25.53	21.82	0.1521
77	30	10	647000	3705	DFT-s-OFDM QPSK	1@1	25.59	21.88	0.1542
77	30	10	647000	3705	DFT-s-OFDM 16 QAM	1@1	24.44	20.73	0.1183
77	30	10	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	25.67	21.96	0.1570
77	30	10	656000	3840	DFT-s-OFDM QPSK	1@1	25.68	21.97	0.1574
77	30	10	656000	3840	DFT-s-OFDM 16 QAM	1@1	24.58	20.87	0.1222
77	30	10	665000	3975	DFT-s-OFDM PI/2 BPSK	1@1	25.76	22.05	0.1603
77	30	10	665000	3975	DFT-s-OFDM QPSK	1@1	25.76	22.05	0.1603
77	30	10	665000	3975	DFT-s-OFDM 16 QAM	1@1	24.64	20.93	0.1239
77	30	15	647168	3707.52	DFT-s-OFDM PI/2 BPSK	1@1	25.48	21.77	0.1503
77	30	15	647168	3707.52	DFT-s-OFDM QPSK	1@1	25.53	21.82	0.1521
77	30	15	647168	3707.52	DFT-s-OFDM 16 QAM	1@1	24.42	20.71	0.1178
77	30	15	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	25.61	21.9	0.1549
77	30	15	656000	3840	DFT-s-OFDM QPSK	1@1	25.64	21.93	0.1560
77	30	15	656000	3840	DFT-s-OFDM 16 QAM	1@1	24.55	20.84	0.1213
77	30	15	664832	3972.48	DFT-s-OFDM PI/2 BPSK	1@1	25.61	21.9	0.1549
77	30	15	664832	3972.48	DFT-s-OFDM QPSK	1@1	25.58	21.87	0.1538
77	30	15	664832	3972.48	DFT-s-OFDM 16 QAM	1@1	24.6	20.89	0.1227
77	30	20	647334	3710.01	DFT-s-OFDM PI/2 BPSK	1@1	25.38	21.67	0.1469
77	30	20	647334	3710.01	DFT-s-OFDM QPSK	1@1	25.38	21.67	0.1469
77	30	20	647334	3710.01	DFT-s-OFDM 16 QAM	1@1	24.42	20.71	0.1178
77	30	20	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	25.52	21.81	0.1517
77	30	20	656000	3840	DFT-s-OFDM QPSK	1@1	25.57	21.86	0.1535
77	30	20	656000	3840	DFT-s-OFDM 16 QAM	1@1	24.49	20.78	0.1197
77	30	20	664666	3969.99	DFT-s-OFDM PI/2 BPSK	1@1	25.48	21.77	0.1503
77	30	20	664666	3969.99	DFT-s-OFDM QPSK	1@1	25.55	21.84	0.1528
77	30	20	664666	3969.99	DFT-s-OFDM 16 QAM	1@1	24.45	20.74	0.1186
77	30	30	647668	3715.02	DFT-s-OFDM PI/2 BPSK	1@1	25.17	21.46	0.1400
77	30	30	647668	3715.02	DFT-s-OFDM QPSK	1@1	25.19	21.48	0.1406
77	30	30	647668	3715.02	DFT-s-OFDM 16 QAM	1@1	24.08	20.37	0.1089
77	30	30	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	25.37	21.66	0.1466
77	30	30	656000	3840	DFT-s-OFDM QPSK	1@1	25.36	21.65	0.1462
77	30	30	656000	3840	DFT-s-OFDM 16 QAM	1@1	24.44	20.73	0.1183
77	30	30	664332	3964.98	DFT-s-OFDM PI/2 BPSK	1@1	25.36	21.65	0.1462
77	30	30	664332	3964.98	DFT-s-OFDM QPSK	1@1	25.32	21.61	0.1449
77	30	30	664332	3964.98	DFT-s-OFDM 16 QAM	1@1	24.38	20.67	0.1167
77	30	40	648000	3720	DFT-s-OFDM PI/2 BPSK	1@1	24.97	21.26	0.1337
77	30	40	648000	3720	DFT-s-OFDM QPSK	1@1	24.98	21.27	0.1340
77	30	40	648000	3720	DFT-s-OFDM 16 QAM	1@1	23.88	20.17	0.1040
77	30	40	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	25.18	21.47	0.1403
77	30	40	656000	3840	DFT-s-OFDM QPSK	1@1	25.19	21.48	0.1406
77	30	40	656000	3840	DFT-s-OFDM 16 QAM	1@1	24.14	20.43	0.1104
77	30	40	664000	3960	DFT-s-OFDM PI/2 BPSK	1@1	25.34	21.63	0.1455
77	30	40	664000	3960	DFT-s-OFDM QPSK	1@1	25.36	21.65	0.1462
77	30	40	664000	3960	DFT-s-OFDM 16 QAM	1@1	24.27	20.56	0.1138
77	30	50	648334	3725.01	DFT-s-OFDM PI/2 BPSK	1@1	25.28	21.57	0.1435
77	30	50	648334	3725.01	DFT-s-OFDM QPSK	1@1	25.29	21.58	0.1439
77	30	50	648334	3725.01	DFT-s-OFDM 16 QAM	1@1	24.21	20.5	0.1122
77	30	50	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	25.46	21.75	0.1496
77	30	50	656000	3840	DFT-s-OFDM QPSK	1@1	25.47	21.76	0.1500
77	30	50	656000	3840	DFT-s-OFDM 16 QAM	1@1	24.42	20.71	0.1178
77	30	50	663666	3954.99	DFT-s-OFDM PI/2 BPSK	1@1	25.5	21.79	0.1510
77	30	50	663666	3954.99	DFT-s-OFDM QPSK	1@1	25.49	21.78	0.1507
77	30	50	663666	3954.99	DFT-s-OFDM 16 QAM	1@1	24.43	20.72	0.1180
77	30	60	648668	3730.02	DFT-s-OFDM PI/2 BPSK	1@1	25.12	21.41	0.1384



77	30	60	648668	3730.02	DFT-s-OFDM QPSK	1@1	25.11	21.4	0.1380
77	30	60	648668	3730.02	DFT-s-OFDM 16 QAM	1@1	24.02	20.31	0.1074
77	30	60	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	25.3	21.59	0.1442
77	30	60	656000	3840	DFT-s-OFDM QPSK	1@1	25.3	21.59	0.1442
77	30	60	656000	3840	DFT-s-OFDM 16 QAM	1@1	24.27	20.56	0.1138
77	30	60	663332	3949.98	DFT-s-OFDM PI/2 BPSK	1@1	25.34	21.63	0.1455
77	30	60	663332	3949.98	DFT-s-OFDM QPSK	1@1	25.35	21.64	0.1459
77	30	60	663332	3949.98	DFT-s-OFDM 16 QAM	1@1	24.24	20.53	0.1130
77	30	70	649000	3735	DFT-s-OFDM PI/2 BPSK	1@1	25.23	21.52	0.1419
77	30	70	649000	3735	DFT-s-OFDM QPSK	1@1	25.23	21.52	0.1419
77	30	70	649000	3735	DFT-s-OFDM 16 QAM	1@1	24.17	20.46	0.1112
77	30	70	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	25.4	21.69	0.1476
77	30	70	656000	3840	DFT-s-OFDM QPSK	1@1	25.38	21.67	0.1469
77	30	70	656000	3840	DFT-s-OFDM 16 QAM	1@1	24.32	20.61	0.1151
77	30	70	663000	3945	DFT-s-OFDM PI/2 BPSK	1@1	25.32	21.61	0.1449
77	30	70	663000	3945	DFT-s-OFDM QPSK	1@1	25.26	21.55	0.1429
77	30	70	663000	3945	DFT-s-OFDM 16 QAM	1@1	24.31	20.6	0.1148
77	30	80	649334	3740.01	DFT-s-OFDM PI/2 BPSK	1@1	25.1	21.39	0.1377
77	30	80	649334	3740.01	DFT-s-OFDM QPSK	1@1	25.09	21.38	0.1374
77	30	80	649334	3740.01	DFT-s-OFDM 16 QAM	1@1	24.17	20.46	0.1112
77	30	80	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	25.28	21.57	0.1435
77	30	80	656000	3840	DFT-s-OFDM QPSK	1@1	25.28	21.57	0.1435
77	30	80	656000	3840	DFT-s-OFDM 16 QAM	1@1	24.19	20.48	0.1117
77	30	80	662666	3939.99	DFT-s-OFDM PI/2 BPSK	1@1	25.24	21.53	0.1422
77	30	80	662666	3939.99	DFT-s-OFDM QPSK	1@1	25.17	21.46	0.1400
77	30	80	662666	3939.99	DFT-s-OFDM 16 QAM	1@1	24.15	20.44	0.1107
77	30	90	649668	3745.02	DFT-s-OFDM PI/2 BPSK	1@1	25.04	21.33	0.1358
77	30	90	649668	3745.02	DFT-s-OFDM QPSK	1@1	25.07	21.36	0.1368
77	30	90	649668	3745.02	DFT-s-OFDM 16 QAM	1@1	24.02	20.31	0.1074
77	30	90	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	25.14	21.43	0.1390
77	30	90	656000	3840	DFT-s-OFDM QPSK	1@1	25.14	21.43	0.1390
77	30	90	656000	3840	DFT-s-OFDM 16 QAM	1@1	24.14	20.43	0.1104
77	30	90	662332	3934.98	DFT-s-OFDM PI/2 BPSK	1@1	25.12	21.41	0.1384
77	30	90	662332	3934.98	DFT-s-OFDM QPSK	1@1	25.13	21.42	0.1387
77	30	90	662332	3934.98	DFT-s-OFDM 16 QAM	1@1	24.08	20.37	0.1089



5G NR n78 - SCS 15k(ANT5):

NR Band	SCS	BandWidth	Arfcn	Freq(MHz)	Modulation	RB	Conducted Power (dBm)	EIRP(dBm)	EIRP(W)
78	15	10	647000	3705	DFT-s-OFDM PI/2 BPSK	1@1	25.14	21.43	0.1390
78	15	10	647000	3705	DFT-s-OFDM QPSK	1@1	25.16	21.45	0.1396
78	15	10	647000	3705	DFT-s-OFDM 16 QAM	1@1	24.17	20.46	0.1112
78	15	10	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	25.16	21.45	0.1396
78	15	10	650000	3750	DFT-s-OFDM QPSK	1@1	25.16	21.45	0.1396
78	15	10	650000	3750	DFT-s-OFDM 16 QAM	1@1	24.19	20.48	0.1117
78	15	10	653000	3795	DFT-s-OFDM PI/2 BPSK	1@1	25.27	21.56	0.1432
78	15	10	653000	3795	DFT-s-OFDM QPSK	1@1	25.22	21.51	0.1416
78	15	10	653000	3795	DFT-s-OFDM 16 QAM	1@1	24.27	20.56	0.1138
78	15	15	647167	3707.505	DFT-s-OFDM PI/2 BPSK	1@1	25.24	21.53	0.1422
78	15	15	647167	3707.505	DFT-s-OFDM QPSK	1@1	25.28	21.57	0.1435
78	15	15	647167	3707.505	DFT-s-OFDM 16 QAM	1@1	24.31	20.6	0.1148
78	15	15	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	25.28	21.57	0.1435
78	15	15	650000	3750	DFT-s-OFDM QPSK	1@1	25.26	21.55	0.1429
78	15	15	650000	3750	DFT-s-OFDM 16 QAM	1@1	24.31	20.6	0.1148
78	15	15	652833	3792.495	DFT-s-OFDM PI/2 BPSK	1@1	25.32	21.61	0.1449
78	15	15	652833	3792.495	DFT-s-OFDM QPSK	1@1	25.33	21.62	0.1452
78	15	15	652833	3792.495	DFT-s-OFDM 16 QAM	1@1	24.35	20.64	0.1159
78	15	20	647334	3710.01	DFT-s-OFDM PI/2 BPSK	1@1	25.2	21.49	0.1409
78	15	20	647334	3710.01	DFT-s-OFDM QPSK	1@1	25.23	21.52	0.1419
78	15	20	647334	3710.01	DFT-s-OFDM 16 QAM	1@1	24.2	20.49	0.1119
78	15	20	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	25.22	21.51	0.1416
78	15	20	650000	3750	DFT-s-OFDM QPSK	1@1	25.2	21.49	0.1409
78	15	20	650000	3750	DFT-s-OFDM 16 QAM	1@1	24.29	20.58	0.1143
78	15	20	652666	3789.99	DFT-s-OFDM PI/2 BPSK	1@1	25.34	21.63	0.1455
78	15	20	652666	3789.99	DFT-s-OFDM QPSK	1@1	25.33	21.62	0.1452
78	15	20	652666	3789.99	DFT-s-OFDM 16 QAM	1@1	24.41	20.7	0.1175
78	15	30	647667	3715.005	DFT-s-OFDM PI/2 BPSK	1@1	25.08	21.37	0.1371
78	15	30	647667	3715.005	DFT-s-OFDM QPSK	1@1	25.05	21.34	0.1361
78	15	30	647667	3715.005	DFT-s-OFDM 16 QAM	1@1	24.07	20.36	0.1086
78	15	30	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	25.06	21.35	0.1365
78	15	30	650000	3750	DFT-s-OFDM QPSK	1@1	25.01	21.3	0.1349
78	15	30	650000	3750	DFT-s-OFDM 16 QAM	1@1	24.08	20.37	0.1089
78	15	30	652333	3784.995	DFT-s-OFDM PI/2 BPSK	1@1	25.12	21.41	0.1384
78	15	30	652333	3784.995	DFT-s-OFDM QPSK	1@1	25.06	21.35	0.1365
78	15	30	652333	3784.995	DFT-s-OFDM 16 QAM	1@1	24.17	20.46	0.1112
78	15	40	648000	3720	DFT-s-OFDM PI/2 BPSK	1@1	24.82	21.11	0.1291
78	15	40	648000	3720	DFT-s-OFDM QPSK	1@1	24.73	21.02	0.1265
78	15	40	648000	3720	DFT-s-OFDM 16 QAM	1@1	23.75	20.04	0.1009
78	15	40	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	24.82	21.11	0.1291
78	15	40	650000	3750	DFT-s-OFDM QPSK	1@1	24.81	21.1	0.1288
78	15	40	650000	3750	DFT-s-OFDM 16 QAM	1@1	23.82	20.11	0.1026
78	15	40	652000	3780	DFT-s-OFDM PI/2 BPSK	1@1	24.87	21.16	0.1306
78	15	40	652000	3780	DFT-s-OFDM QPSK	1@1	24.77	21.06	0.1276
78	15	40	652000	3780	DFT-s-OFDM 16 QAM	1@1	23.83	20.12	0.1028
78	15	50	648334	3725.01	DFT-s-OFDM PI/2 BPSK	135@67	25.46	21.75	0.1496
78	15	50	648334	3725.01	DFT-s-OFDM PI/2 BPSK	1@1	24.87	21.16	0.1306
78	15	50	648334	3725.01	DFT-s-OFDM PI/2 BPSK	1@268	24.8	21.09	0.1285
78	15	50	648334	3725.01	DFT-s-OFDM QPSK	135@67	24.96	21.25	0.1334
78	15	50	648334	3725.01	DFT-s-OFDM QPSK	1@1	24.87	21.16	0.1306
78	15	50	648334	3725.01	DFT-s-OFDM QPSK	1@268	24.78	21.07	0.1279
78	15	50	648334	3725.01	DFT-s-OFDM 16 QAM	135@67	24.07	20.36	0.1086
78	15	50	648334	3725.01	DFT-s-OFDM 16 QAM	1@1	23.89	20.18	0.1042



78	15	50	648334	3725.01	DFT-s-OFDM 16 QAM	1@268	23.85	20.14	0.1033
78	15	50	648334	3725.01	DFT-s-OFDM 64 QAM	135@67	22.61	18.9	0.0776
78	15	50	648334	3725.01	DFT-s-OFDM 64 QAM	1@1	22.51	18.8	0.0759
78	15	50	648334	3725.01	DFT-s-OFDM 64 QAM	1@268	22.45	18.74	0.0748
78	15	50	648334	3725.01	DFT-s-OFDM 256 QAM	135@67	20.65	16.94	0.0494
78	15	50	648334	3725.01	DFT-s-OFDM 256 QAM	1@1	20.15	16.44	0.0441
78	15	50	648334	3725.01	DFT-s-OFDM 256 QAM	1@268	20.05	16.34	0.0431
78	15	50	648334	3725.01	CP-OFDM QPSK	135@67	23.59	19.88	0.0973
78	15	50	648334	3725.01	CP-OFDM QPSK	1@1	23.33	19.62	0.0916
78	15	50	648334	3725.01	CP-OFDM QPSK	1@268	23.2	19.49	0.0889
78	15	50	650000	3750	DFT-s-OFDM PI/2 BPSK	135@67	25.35	21.64	0.1459
78	15	50	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	24.84	21.13	0.1297
78	15	50	650000	3750	DFT-s-OFDM PI/2 BPSK	1@268	24.91	21.2	0.1318
78	15	50	650000	3750	DFT-s-OFDM QPSK	135@67	25.13	21.42	0.1387
78	15	50	650000	3750	DFT-s-OFDM QPSK	1@1	24.82	21.11	0.1291
78	15	50	650000	3750	DFT-s-OFDM QPSK	1@268	24.89	21.18	0.1312
78	15	50	650000	3750	DFT-s-OFDM 16 QAM	135@67	24.09	20.38	0.1091
78	15	50	650000	3750	DFT-s-OFDM 16 QAM	1@1	23.83	20.12	0.1028
78	15	50	650000	3750	DFT-s-OFDM 16 QAM	1@268	23.95	20.24	0.1057
78	15	50	650000	3750	DFT-s-OFDM 64 QAM	135@67	22.59	18.88	0.0773
78	15	50	650000	3750	DFT-s-OFDM 64 QAM	1@1	22.47	18.76	0.0752
78	15	50	650000	3750	DFT-s-OFDM 64 QAM	1@268	22.54	18.83	0.0764
78	15	50	650000	3750	DFT-s-OFDM 256 QAM	135@67	20.71	17	0.0501
78	15	50	650000	3750	DFT-s-OFDM 256 QAM	1@1	20.12	16.41	0.0438
78	15	50	650000	3750	DFT-s-OFDM 256 QAM	1@268	20.27	16.56	0.0453
78	15	50	650000	3750	CP-OFDM QPSK	135@67	23.6	19.89	0.0975
78	15	50	650000	3750	CP-OFDM QPSK	1@1	23.25	19.54	0.0899
78	15	50	650000	3750	CP-OFDM QPSK	1@268	23.32	19.61	0.0914
78	15	50	651666	3774.99	DFT-s-OFDM PI/2 BPSK	135@67	25.15	21.44	0.1393
78	15	50	651666	3774.99	DFT-s-OFDM PI/2 BPSK	1@1	24.79	21.08	0.1282
78	15	50	651666	3774.99	DFT-s-OFDM PI/2 BPSK	1@268	24.88	21.17	0.1309
78	15	50	651666	3774.99	DFT-s-OFDM QPSK	135@67	25.15	21.44	0.1393
78	15	50	651666	3774.99	DFT-s-OFDM QPSK	1@1	24.78	21.07	0.1279
78	15	50	651666	3774.99	DFT-s-OFDM QPSK	1@268	24.8	21.09	0.1285
78	15	50	651666	3774.99	DFT-s-OFDM 16 QAM	135@67	24.12	20.41	0.1099
78	15	50	651666	3774.99	DFT-s-OFDM 16 QAM	1@1	23.84	20.13	0.1030
78	15	50	651666	3774.99	DFT-s-OFDM 16 QAM	1@268	23.88	20.17	0.1040
78	15	50	651666	3774.99	DFT-s-OFDM 64 QAM	135@67	22.63	18.92	0.0780
78	15	50	651666	3774.99	DFT-s-OFDM 64 QAM	1@1	22.41	18.7	0.0741
78	15	50	651666	3774.99	DFT-s-OFDM 64 QAM	1@268	22.5	18.79	0.0757
78	15	50	651666	3774.99	DFT-s-OFDM 256 QAM	135@67	20.67	16.96	0.0497
78	15	50	651666	3774.99	DFT-s-OFDM 256 QAM	1@1	20.15	16.44	0.0441
78	15	50	651666	3774.99	DFT-s-OFDM 256 QAM	1@268	20.15	16.44	0.0441
78	15	50	651666	3774.99	CP-OFDM QPSK	135@67	23.6	19.89	0.0975
78	15	50	651666	3774.99	CP-OFDM QPSK	1@1	23.23	19.52	0.0895
78	15	50	651666	3774.99	CP-OFDM QPSK	1@268	23.3	19.59	0.0910



5G NR n78 - SCS 30k(ANT5):

NR Band	SCS	BandWidth	Arfcn	Freq(MHz)	Modulation	RB	Conducted Power (dBm)	EIRP(dBm)	EIRP(W)
78	30	10	647000	3705	DFT-s-OFDM PI/2 BPSK	1@1	25.3	21.59	0.1442
78	30	10	647000	3705	DFT-s-OFDM QPSK	1@1	25.3	21.59	0.1442
78	30	10	647000	3705	DFT-s-OFDM 16 QAM	1@1	24.3	20.59	0.1146
78	30	10	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	25.34	21.63	0.1455
78	30	10	650000	3750	DFT-s-OFDM QPSK	1@1	25.34	21.63	0.1455
78	30	10	650000	3750	DFT-s-OFDM 16 QAM	1@1	24.4	20.69	0.1172
78	30	10	653000	3795	DFT-s-OFDM PI/2 BPSK	1@1	25.38	21.67	0.1469
78	30	10	653000	3795	DFT-s-OFDM QPSK	1@1	25.38	21.67	0.1469
78	30	10	653000	3795	DFT-s-OFDM 16 QAM	1@1	24.4	20.69	0.1172
78	30	15	647168	3707.52	DFT-s-OFDM PI/2 BPSK	1@1	25.25	21.54	0.1426
78	30	15	647168	3707.52	DFT-s-OFDM QPSK	1@1	25.25	21.54	0.1426
78	30	15	647168	3707.52	DFT-s-OFDM 16 QAM	1@1	24.28	20.57	0.1140
78	30	15	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	25.31	21.6	0.1445
78	30	15	650000	3750	DFT-s-OFDM QPSK	1@1	25.33	21.62	0.1452
78	30	15	650000	3750	DFT-s-OFDM 16 QAM	1@1	24.35	20.64	0.1159
78	30	15	652832	3792.48	DFT-s-OFDM PI/2 BPSK	1@1	25.36	21.65	0.1462
78	30	15	652832	3792.48	DFT-s-OFDM QPSK	1@1	25.32	21.61	0.1449
78	30	15	652832	3792.48	DFT-s-OFDM 16 QAM	1@1	24.41	20.7	0.1175
78	30	20	647334	3710.01	DFT-s-OFDM PI/2 BPSK	1@1	25.16	21.45	0.1396
78	30	20	647334	3710.01	DFT-s-OFDM QPSK	1@1	25.14	21.43	0.1390
78	30	20	647334	3710.01	DFT-s-OFDM 16 QAM	1@1	24.16	20.45	0.1109
78	30	20	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	25.24	21.53	0.1422
78	30	20	650000	3750	DFT-s-OFDM QPSK	1@1	25.24	21.53	0.1422
78	30	20	650000	3750	DFT-s-OFDM 16 QAM	1@1	24.24	20.53	0.1130
78	30	20	652666	3789.99	DFT-s-OFDM PI/2 BPSK	1@1	25.33	21.62	0.1452
78	30	20	652666	3789.99	DFT-s-OFDM QPSK	1@1	25.31	21.6	0.1445
78	30	20	652666	3789.99	DFT-s-OFDM 16 QAM	1@1	24.36	20.65	0.1161
78	30	30	647668	3715.02	DFT-s-OFDM PI/2 BPSK	1@1	24.98	21.27	0.1340
78	30	30	647668	3715.02	DFT-s-OFDM QPSK	1@1	25.03	21.32	0.1355
78	30	30	647668	3715.02	DFT-s-OFDM 16 QAM	1@1	24.07	20.36	0.1086
78	30	30	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	25.08	21.37	0.1371
78	30	30	650000	3750	DFT-s-OFDM QPSK	1@1	25.09	21.38	0.1374
78	30	30	650000	3750	DFT-s-OFDM 16 QAM	1@1	24.15	20.44	0.1107
78	30	30	652332	3784.98	DFT-s-OFDM PI/2 BPSK	1@1	25.12	21.41	0.1384
78	30	30	652332	3784.98	DFT-s-OFDM QPSK	1@1	25.13	21.42	0.1387
78	30	30	652332	3784.98	DFT-s-OFDM 16 QAM	1@1	24.22	20.51	0.1125
78	30	40	648000	3720	DFT-s-OFDM PI/2 BPSK	1@1	24.77	21.06	0.1276
78	30	40	648000	3720	DFT-s-OFDM QPSK	1@1	24.75	21.04	0.1271
78	30	40	648000	3720	DFT-s-OFDM 16 QAM	1@1	23.89	20.18	0.1042
78	30	40	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	24.86	21.15	0.1303
78	30	40	650000	3750	DFT-s-OFDM QPSK	1@1	24.83	21.12	0.1294
78	30	40	650000	3750	DFT-s-OFDM 16 QAM	1@1	23.95	20.24	0.1057
78	30	40	652000	3780	DFT-s-OFDM PI/2 BPSK	1@1	24.91	21.2	0.1318
78	30	40	652000	3780	DFT-s-OFDM QPSK	1@1	24.89	21.18	0.1312
78	30	40	652000	3780	DFT-s-OFDM 16 QAM	1@1	23.97	20.26	0.1062
78	30	50	648334	3725.01	DFT-s-OFDM PI/2 BPSK	1@1	25.06	21.35	0.1365
78	30	50	648334	3725.01	DFT-s-OFDM QPSK	1@1	25.07	21.36	0.1368
78	30	50	648334	3725.01	DFT-s-OFDM 16 QAM	1@1	24.08	20.37	0.1089
78	30	50	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	25.08	21.37	0.1371
78	30	50	650000	3750	DFT-s-OFDM QPSK	1@1	25.1	21.39	0.1377
78	30	50	650000	3750	DFT-s-OFDM 16 QAM	1@1	24.09	20.38	0.1091
78	30	50	651666	3774.99	DFT-s-OFDM PI/2 BPSK	1@1	25.11	21.4	0.1380
78	30	50	651666	3774.99	DFT-s-OFDM QPSK	1@1	25.1	21.39	0.1377



78	30	50	651666	3774.99	DFT-s-OFDM 16 QAM	1@1	24.14	20.43	0.1104
78	30	60	648668	3730.02	DFT-s-OFDM PI/2 BPSK	1@1	24.95	21.24	0.1330
78	30	60	648668	3730.02	DFT-s-OFDM QPSK	1@1	24.95	21.24	0.1330
78	30	60	648668	3730.02	DFT-s-OFDM 16 QAM	1@1	23.99	20.28	0.1067
78	30	60	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	24.96	21.25	0.1334
78	30	60	650000	3750	DFT-s-OFDM QPSK	1@1	24.96	21.25	0.1334
78	30	60	650000	3750	DFT-s-OFDM 16 QAM	1@1	23.99	20.28	0.1067
78	30	60	651332	3769.98	DFT-s-OFDM PI/2 BPSK	1@1	24.99	21.28	0.1343
78	30	60	651332	3769.98	DFT-s-OFDM QPSK	1@1	24.98	21.27	0.1340
78	30	60	651332	3769.98	DFT-s-OFDM 16 QAM	1@1	24.03	20.32	0.1076
78	30	70	649000	3735	DFT-s-OFDM PI/2 BPSK	1@1	24.97	21.26	0.1337
78	30	70	649000	3735	DFT-s-OFDM QPSK	1@1	24.96	21.25	0.1334
78	30	70	649000	3735	DFT-s-OFDM 16 QAM	1@1	23.98	20.27	0.1064
78	30	70	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	24.96	21.25	0.1334
78	30	70	650000	3750	DFT-s-OFDM QPSK	1@1	24.95	21.24	0.1330
78	30	70	650000	3750	DFT-s-OFDM 16 QAM	1@1	23.93	20.22	0.1052
78	30	70	651000	3765	DFT-s-OFDM PI/2 BPSK	1@1	25	21.29	0.1346
78	30	70	651000	3765	DFT-s-OFDM QPSK	1@1	24.99	21.28	0.1343
78	30	70	651000	3765	DFT-s-OFDM 16 QAM	1@1	24.04	20.33	0.1079
78	30	80	649334	3740.01	DFT-s-OFDM PI/2 BPSK	1@1	24.82	21.11	0.1291
78	30	80	649334	3740.01	DFT-s-OFDM QPSK	1@1	24.84	21.13	0.1297
78	30	80	649334	3740.01	DFT-s-OFDM 16 QAM	1@1	23.86	20.15	0.1035
78	30	80	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	24.87	21.16	0.1306
78	30	80	650000	3750	DFT-s-OFDM QPSK	1@1	24.86	21.15	0.1303
78	30	80	650000	3750	DFT-s-OFDM 16 QAM	1@1	23.88	20.17	0.1040
78	30	80	650666	3759.99	DFT-s-OFDM PI/2 BPSK	1@1	24.84	21.13	0.1297
78	30	80	650666	3759.99	DFT-s-OFDM QPSK	1@1	24.83	21.12	0.1294
78	30	80	650666	3759.99	DFT-s-OFDM 16 QAM	1@1	23.83	20.12	0.1028
78	30	90	649668	3745.02	DFT-s-OFDM PI/2 BPSK	1@1	24.75	21.04	0.1271
78	30	90	649668	3745.02	DFT-s-OFDM QPSK	1@1	24.73	21.02	0.1265
78	30	90	649668	3745.02	DFT-s-OFDM 16 QAM	1@1	23.82	20.11	0.1026
78	30	90	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	24.7	20.99	0.1256
78	30	90	650000	3750	DFT-s-OFDM QPSK	1@1	24.69	20.98	0.1253
78	30	90	650000	3750	DFT-s-OFDM 16 QAM	1@1	23.77	20.06	0.1014
78	30	90	650332	3754.98	DFT-s-OFDM PI/2 BPSK	1@1	24.69	20.98	0.1253
78	30	90	650332	3754.98	DFT-s-OFDM QPSK	1@1	24.7	20.99	0.1256
78	30	90	650332	3754.98	DFT-s-OFDM 16 QAM	1@1	23.75	20.04	0.1009
78	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	135@67	25.38	21.67	0.1469
78	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	24.6	20.89	0.1227
78	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	1@271	24.71	21	0.1259
78	30	100	650000	3750	DFT-s-OFDM QPSK	135@67	25.37	21.66	0.1466
78	30	100	650000	3750	DFT-s-OFDM QPSK	1@1	24.58	20.87	0.1222
78	30	100	650000	3750	DFT-s-OFDM QPSK	1@271	24.66	20.95	0.1245
78	30	100	650000	3750	DFT-s-OFDM 16 QAM	135@67	24.38	20.67	0.1167
78	30	100	650000	3750	DFT-s-OFDM 16 QAM	1@1	23.75	20.04	0.1009
78	30	100	650000	3750	DFT-s-OFDM 16 QAM	1@271	23.9	20.19	0.1045
78	30	100	650000	3750	DFT-s-OFDM 64 QAM	135@67	22.92	19.21	0.0834
78	30	100	650000	3750	DFT-s-OFDM 64 QAM	1@1	22.03	18.32	0.0679
78	30	100	650000	3750	DFT-s-OFDM 64 QAM	1@271	22.15	18.44	0.0698
78	30	100	650000	3750	DFT-s-OFDM 256 QAM	135@67	20.91	17.2	0.0525
78	30	100	650000	3750	DFT-s-OFDM 256 QAM	1@1	20.07	16.36	0.0433
78	30	100	650000	3750	DFT-s-OFDM 256 QAM	1@271	20.12	16.41	0.0438
78	30	100	650000	3750	CP-OFDM QPSK	137@68	23.85	20.14	0.1033
78	30	100	650000	3750	CP-OFDM QPSK	1@1	23.18	19.47	0.0885
78	30	100	650000	3750	CP-OFDM QPSK	1@271	23.28	19.57	0.0906



# FR1 N38(ANT4) – SCS 15k

## Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
38	15	5	518500	2592.5	DFT-s-OFDM QPSK	25@0	0.0016	PASS	NV
38	15	5	518500	2592.5	DFT-s-OFDM QPSK	25@0	0.0011	PASS	LV
38	15	5	518500	2592.5	DFT-s-OFDM QPSK	25@0	0.0019	PASS	HV
38	15	5	518500	2592.5	DFT-s-OFDM QPSK	25@0	0.0012	PASS	-30°C
38	15	5	518500	2592.5	DFT-s-OFDM QPSK	25@0	-0.0014	PASS	-20°C
38	15	5	518500	2592.5	DFT-s-OFDM QPSK	25@0	0.0025	PASS	-10°C
38	15	5	518500	2592.5	DFT-s-OFDM QPSK	25@0	0.0023	PASS	0°C
38	15	5	518500	2592.5	DFT-s-OFDM QPSK	25@0	-0.0017	PASS	10°C
38	15	5	518500	2592.5	DFT-s-OFDM QPSK	25@0	0.0031	PASS	20°C
38	15	5	518500	2592.5	DFT-s-OFDM QPSK	25@0	0.0029	PASS	30°C
38	15	5	518500	2592.5	DFT-s-OFDM QPSK	25@0	0.0021	PASS	40°C
38	15	5	518500	2592.5	DFT-s-OFDM QPSK	25@0	0.0015	PASS	50°C

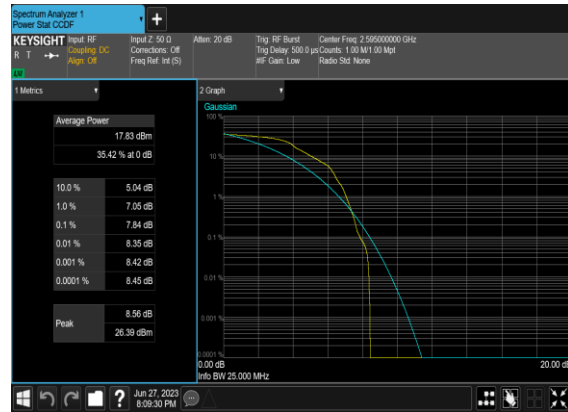
# Peak to Average Ratio

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
38	15	25	519000	2595.0	DFT-s-OFDM PI/2 BPSK	128@0	7.54	13	PASS
38	15	25	519000	2595.0	DFT-s-OFDM PI/2 BPSK	1@0	7.84	13	PASS
38	15	25	519000	2595.0	DFT-s-OFDM QPSK	128@0	8.37	13	PASS
38	15	25	519000	2595.0	DFT-s-OFDM QPSK	1@0	9.74	13	PASS

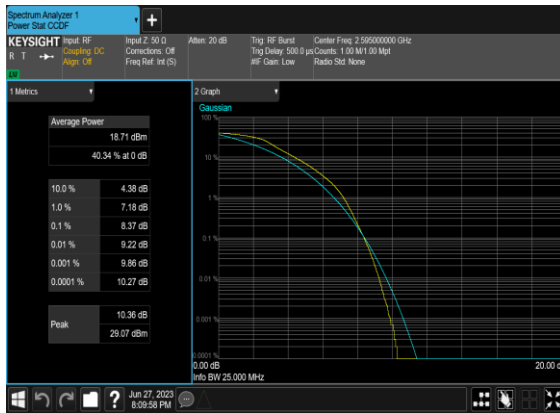
N38(25M)\_DFT-s-OFDM\_PI\_2-BPSK\_Outer\_Full\_Mid\_CH



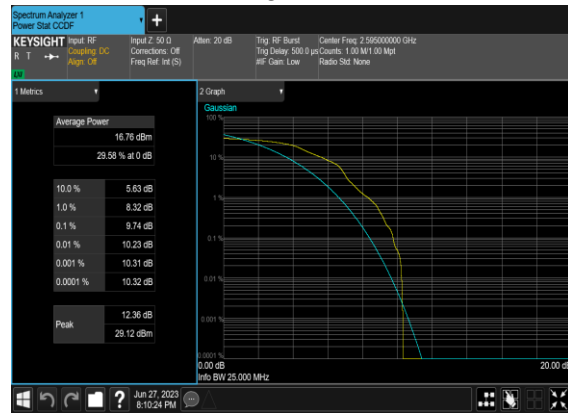
N38(25M)\_DFT-s-OFDM\_PI\_2-BPSK\_Edge\_1RB\_Left\_Mid\_CH



N38(25M)\_DFT-s-OFDM\_QPSK\_Outer\_Full\_Mid\_CH



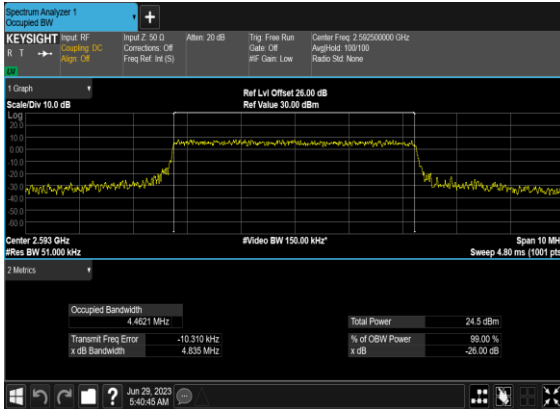
N38(25M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



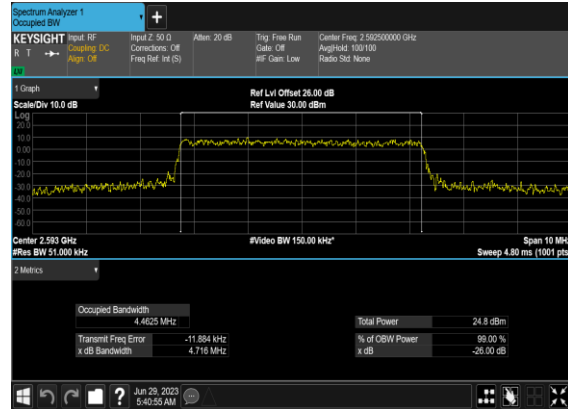
## Occupied Bandwidth

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
38	15	5	518500	2592.5	CP-OFDM QPSK	25@0	4.4621	4.835
38	15	5	518500	2592.5	CP-OFDM 16 QAM	25@0	4.4625	4.716
38	15	5	518500	2592.5	CP-OFDM 64 QAM	25@0	4.4696	4.842
38	15	5	518500	2592.5	CP-OFDM 256 QAM	25@0	4.4896	4.775
38	15	25	519000	2595.0	CP-OFDM QPSK	133@0	23.756	24.94
38	15	25	519000	2595.0	CP-OFDM 16 QAM	133@0	23.698	24.5
38	15	25	519000	2595.0	CP-OFDM 64 QAM	133@0	23.618	24.63
38	15	25	519000	2595.0	CP-OFDM 256 QAM	133@0	23.717	24.48

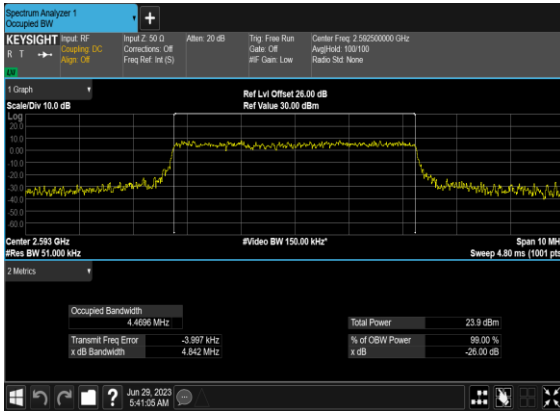
### N38(5M)\_CP- OFDM\_QPSK\_Outer\_Full\_Mid\_CH



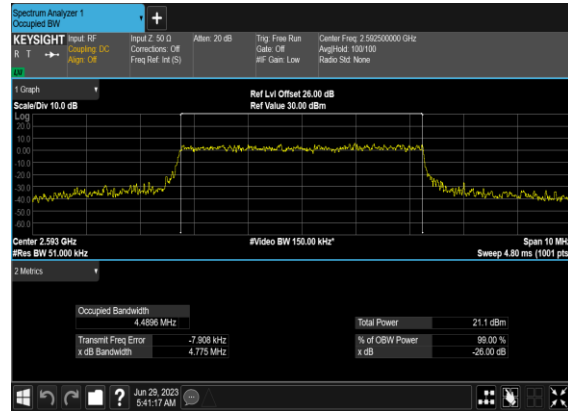
### N38(5M)\_CP-OFDM\_16 QAM\_Outer\_Full\_Mid\_CH



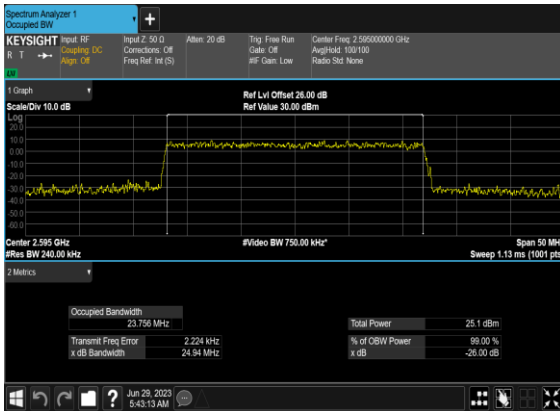
### N38(5M)\_CP-OFDM\_64 QAM\_Outer\_Full\_Mid\_CH



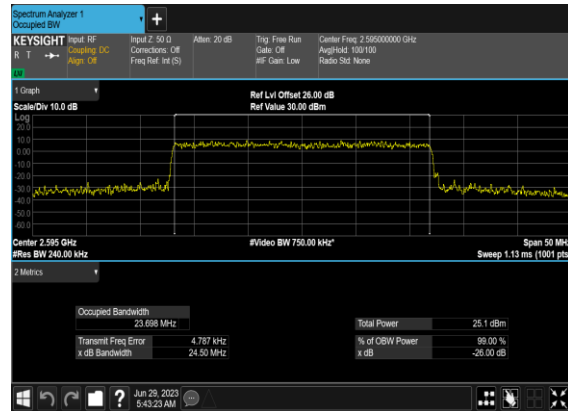
### N38(5M)\_CP-OFDM\_256 QAM\_Outer\_Full\_Mid\_CH



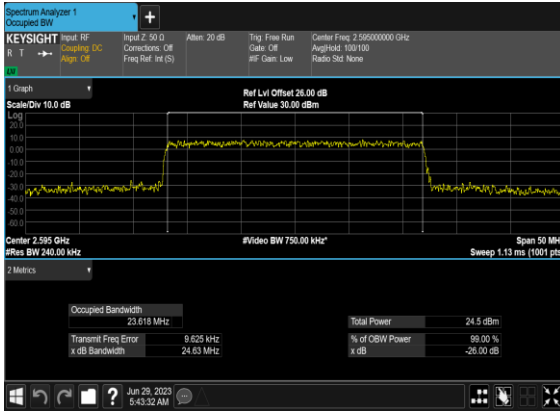
### N38(25M)\_CP- OFDM\_QPSK\_Outer\_Full\_Mid\_CH



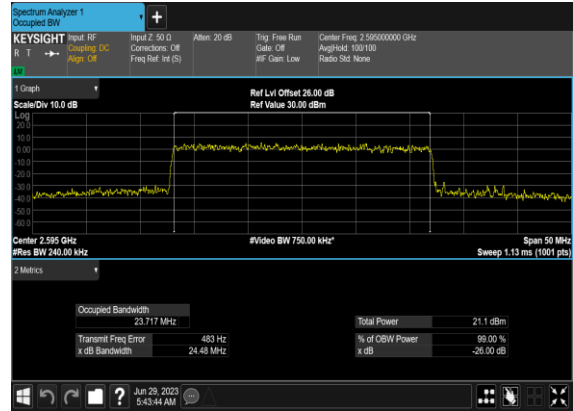
### N38(25M)\_CP-OFDM\_16 QAM\_Outer\_Full\_Mid\_CH



## N38(25M)\_CP-OFDM\_64 QAM\_Outer\_Full\_Mid\_CH



## N38(25M)\_CP-OFDM\_256 QAM\_Outer\_Full\_Mid\_CH

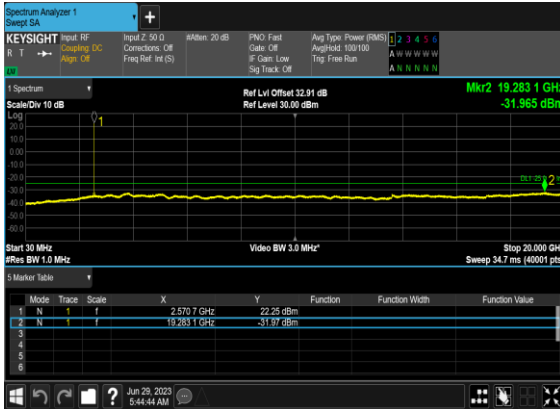


## Conducted Spurious Emissions

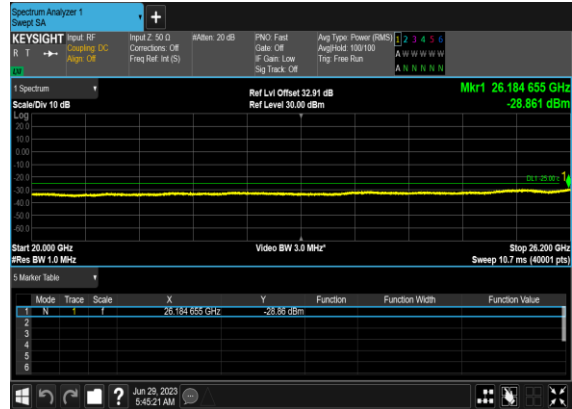
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
38	15	5	514500	2572.5	DFT-s-OFDM BPSK	1@0	see graph	---
38	15	5	514500	2572.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
38	15	5	514500	2572.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
38	15	5	514500	2572.5	DFT-s-OFDM QPSK	1@0	see graph	---
38	15	5	514500	2572.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
38	15	5	514500	2572.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
38	15	5	518500	2592.5	DFT-s-OFDM BPSK	1@0	see graph	---
38	15	5	518500	2592.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
38	15	5	518500	2592.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
38	15	5	518500	2592.5	DFT-s-OFDM QPSK	1@0	see graph	---
38	15	5	518500	2592.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
38	15	5	518500	2592.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
38	15	5	523500	2617.5	DFT-s-OFDM BPSK	1@0	see graph	---
38	15	5	523500	2617.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
38	15	5	523500	2617.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
38	15	5	523500	2617.5	DFT-s-OFDM QPSK	1@0	see graph	---
38	15	5	523500	2617.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
38	15	5	523500	2617.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
38	15	25	516500	2582.5	DFT-s-OFDM BPSK	1@0	see graph	---
38	15	25	516500	2582.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
38	15	25	516500	2582.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
38	15	25	516500	2582.5	DFT-s-OFDM QPSK	1@0	see graph	---
38	15	25	516500	2582.5	DFT-s-OFDM QPSK	1@0	see graph	PASS

38	15	25	516500	2582.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
38	15	25	519000	2595.0	DFT-s-OFDM BPSK	1@0	see graph	---
38	15	25	519000	2595.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
38	15	25	519000	2595.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
38	15	25	519000	2595.0	DFT-s-OFDM QPSK	1@0	see graph	---
38	15	25	519000	2595.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
38	15	25	519000	2595.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
38	15	25	521500	2607.5	DFT-s-OFDM BPSK	1@0	see graph	---
38	15	25	521500	2607.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
38	15	25	521500	2607.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
38	15	25	521500	2607.5	DFT-s-OFDM QPSK	1@0	see graph	---
38	15	25	521500	2607.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
38	15	25	521500	2607.5	DFT-s-OFDM QPSK	1@0	see graph	PASS

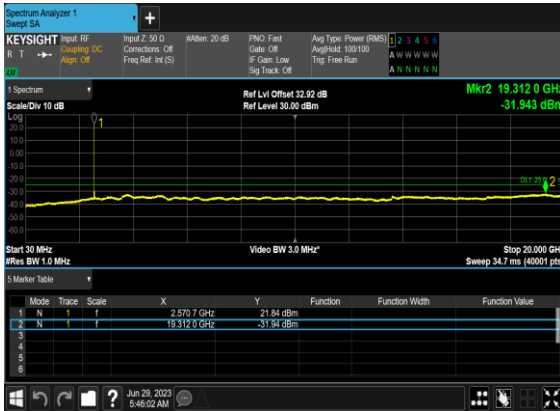
### N38(5M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



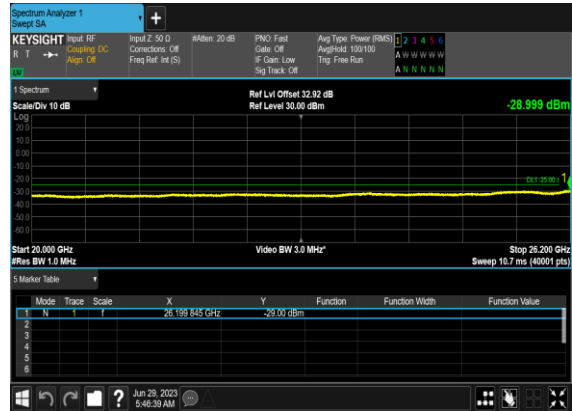
### N38(5M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



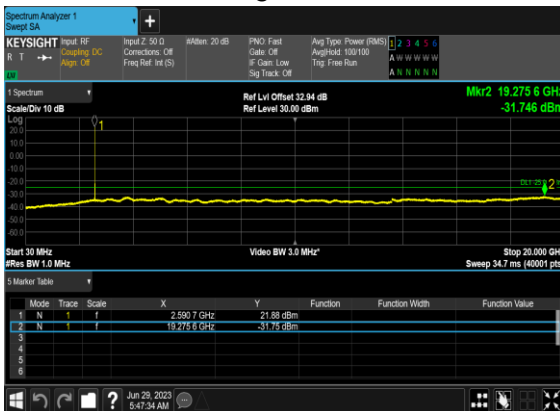
### N38(5M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



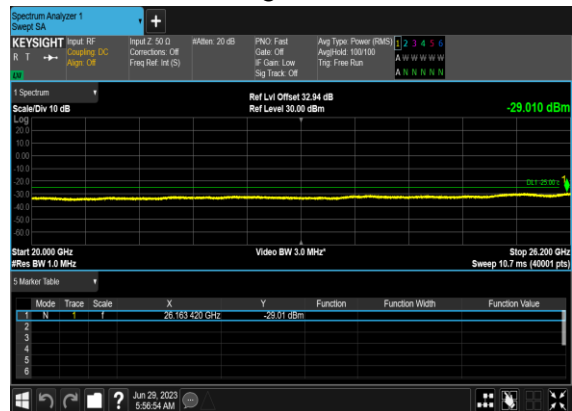
### N38(5M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



### N38(5M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Mid\_CH

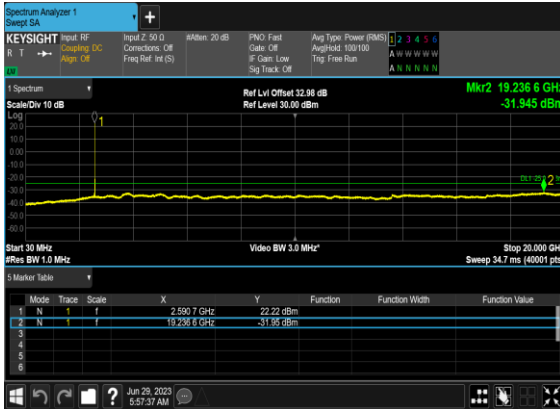


### N38(5M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Mid\_CH

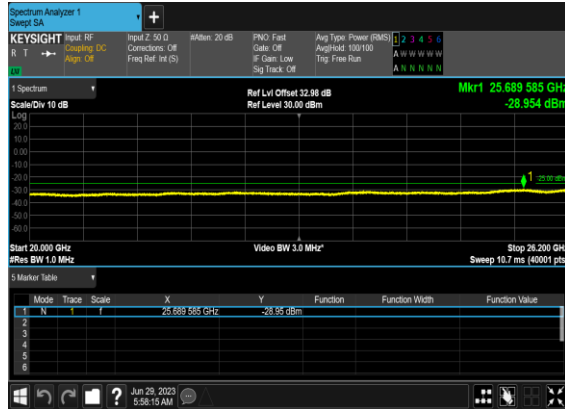




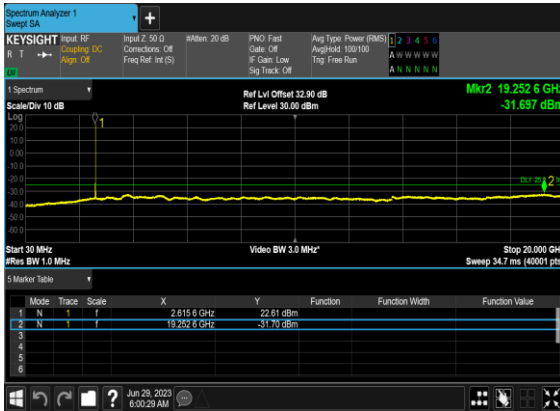
### N38(5M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



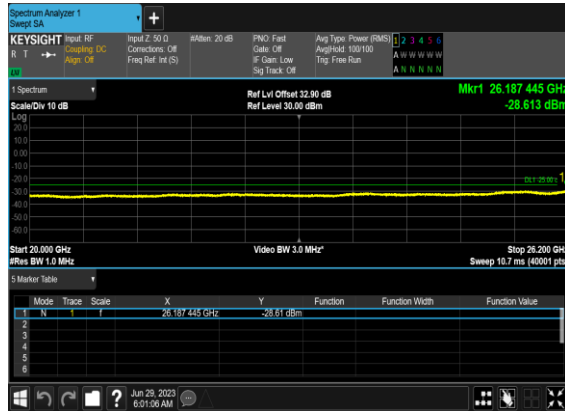
### N38(5M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



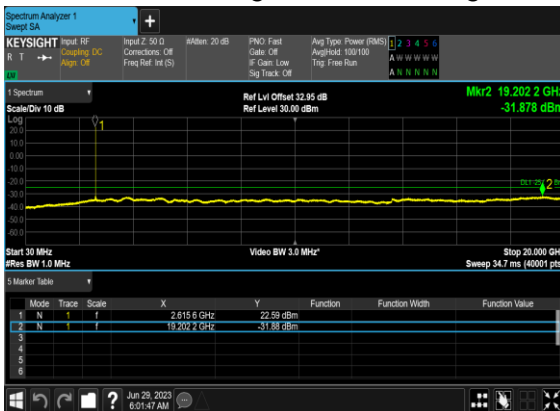
### N38(5M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_High\_CH



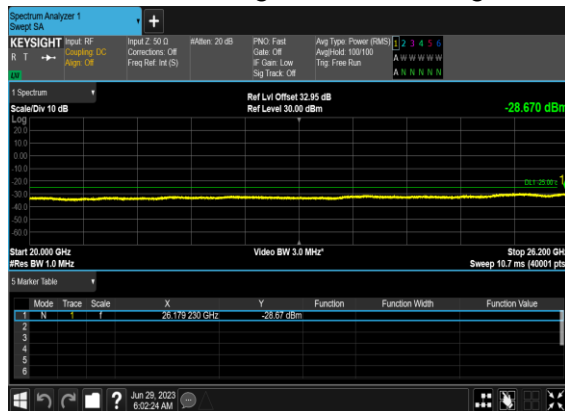
### N38(5M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_High\_CH



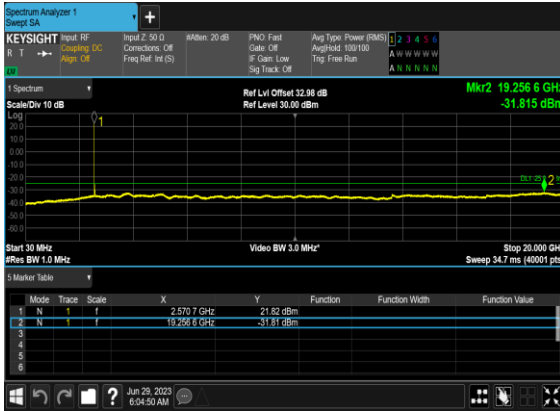
### N38(5M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH



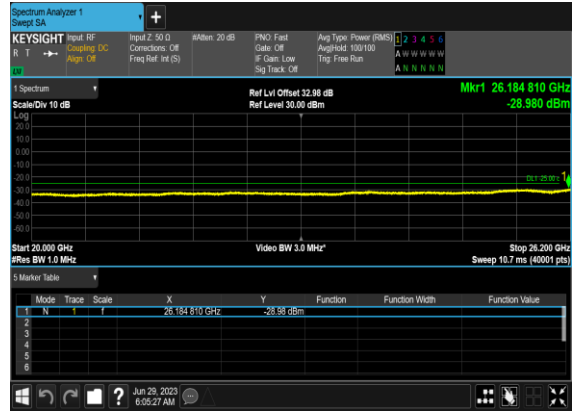
### N38(5M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH



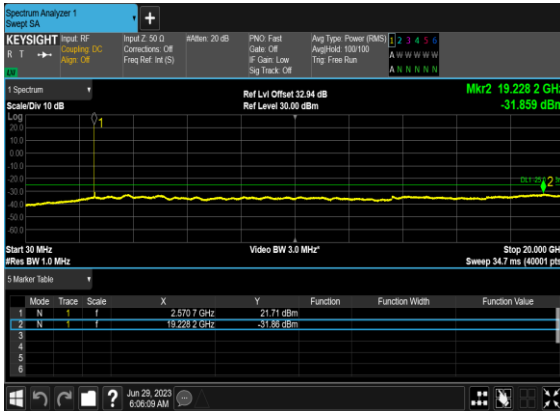
### N38(25M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



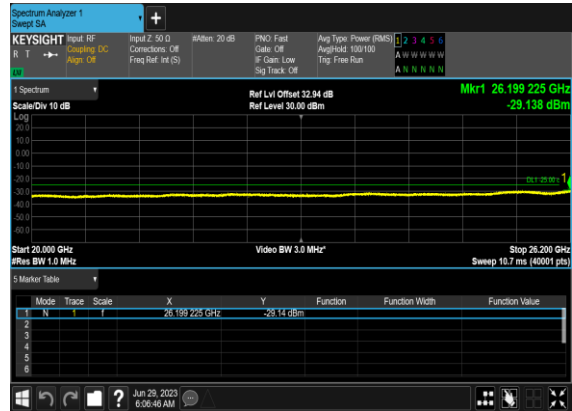
### N38(25M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



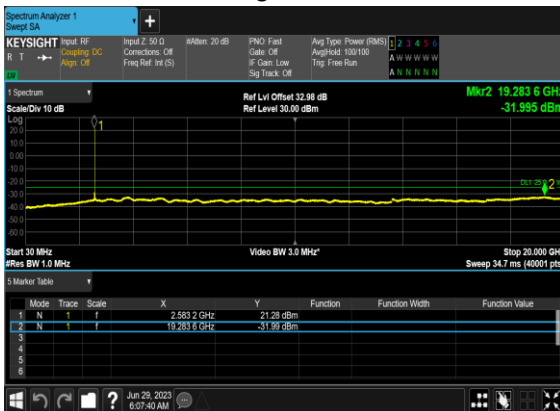
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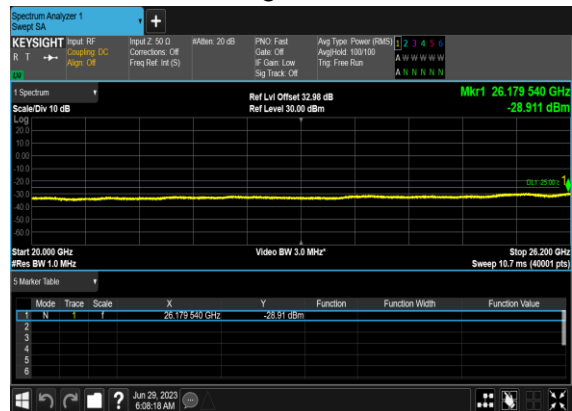
### N38(25M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



### N38(25M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Mid\_CH



### N38(25M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Mid\_CH

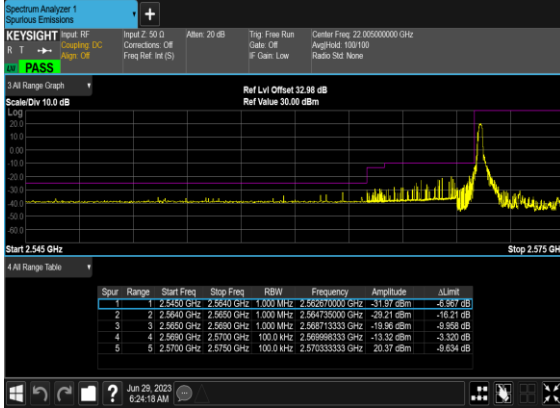




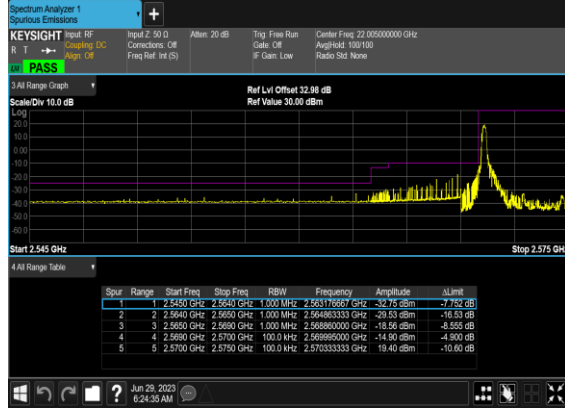
## Conducted Band Edge

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
38	15	5	514500	2572.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
38	15	5	514500	2572.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
38	15	5	514500	2572.5	DFT-s-OFDM BPSK	25@0	see graph	PASS
38	15	5	514500	2572.5	DFT-s-OFDM QPSK	25@0	see graph	PASS
38	15	5	523500	2617.5	DFT-s-OFDM BPSK	1@24	see graph	PASS
38	15	5	523500	2617.5	DFT-s-OFDM QPSK	1@24	see graph	PASS
38	15	5	523500	2617.5	DFT-s-OFDM BPSK	25@0	see graph	PASS
38	15	5	523500	2617.5	DFT-s-OFDM QPSK	25@0	see graph	PASS
38	15	25	516500	2582.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
38	15	25	516500	2582.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
38	15	25	516500	2582.5	DFT-s-OFDM BPSK	128@0	see graph	PASS
38	15	25	516500	2582.5	DFT-s-OFDM QPSK	128@0	see graph	PASS
38	15	25	521500	2607.5	DFT-s-OFDM BPSK	1@132	see graph	PASS
38	15	25	521500	2607.5	DFT-s-OFDM QPSK	1@132	see graph	PASS
38	15	25	521500	2607.5	DFT-s-OFDM BPSK	128@0	see graph	PASS
38	15	25	521500	2607.5	DFT-s-OFDM QPSK	128@0	see graph	PASS

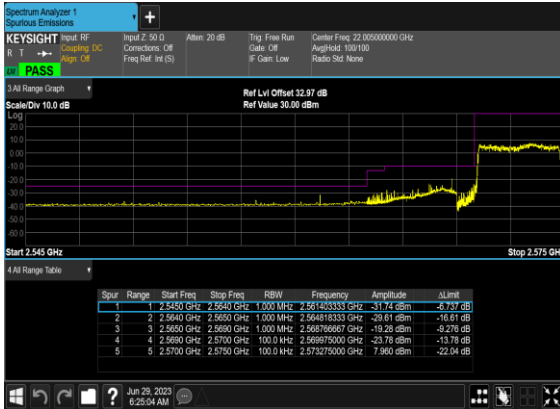
N38(5M)\_DFT-s-  
OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



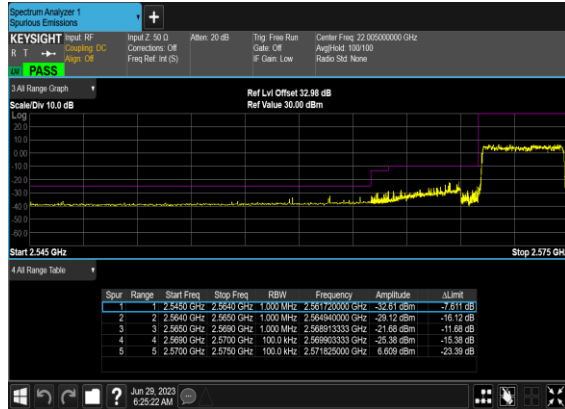
N38(5M)\_DFT-s-  
OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



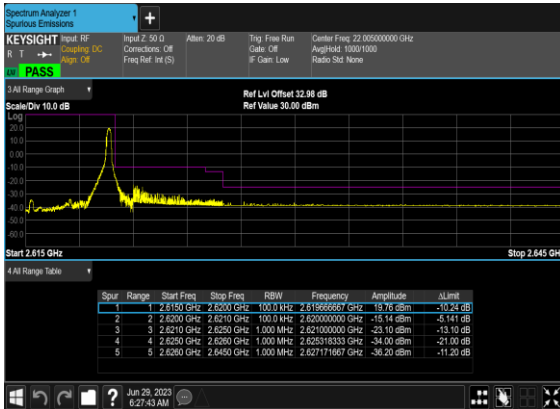
N38(5M)\_DFT-s-  
OFDM\_BPSK\_Outer\_Full\_Low\_CH



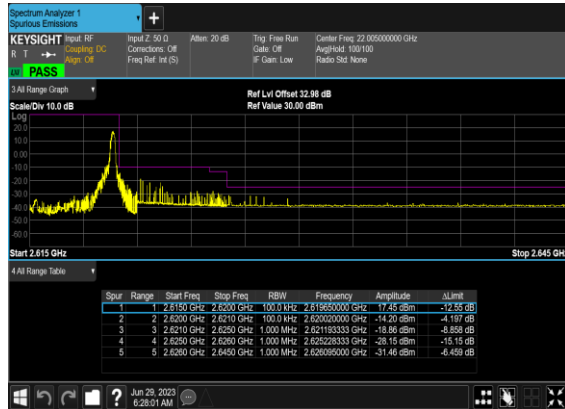
N38(5M)\_DFT-s-  
OFDM\_QPSK\_Outer\_Full\_Low\_CH



N38(5M)\_DFT-s-  
OFDM\_BPSK\_Edge\_1RB\_Right\_High\_CH



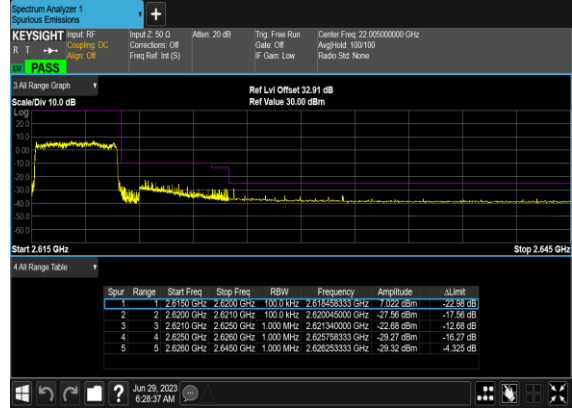
N38(5M)\_DFT-s-  
OFDM\_QPSK\_Edge\_1RB\_Right\_High\_CH



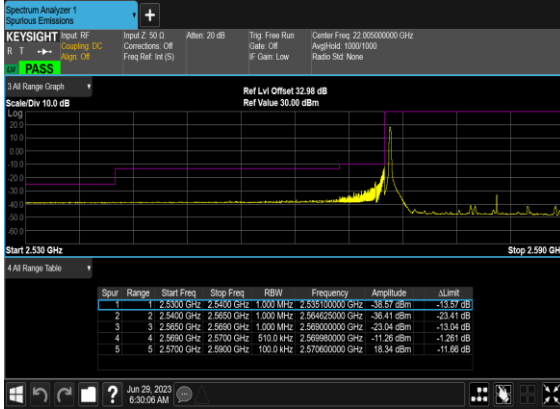
### N38(5M)\_DFT-s-OFDM\_BPSK\_Outer\_Full\_High\_CH



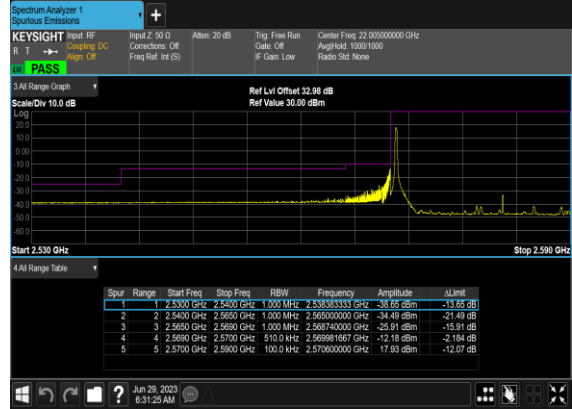
### N38(5M)\_DFT-s-OFDM\_QPSK\_Outer\_Full\_High\_CH



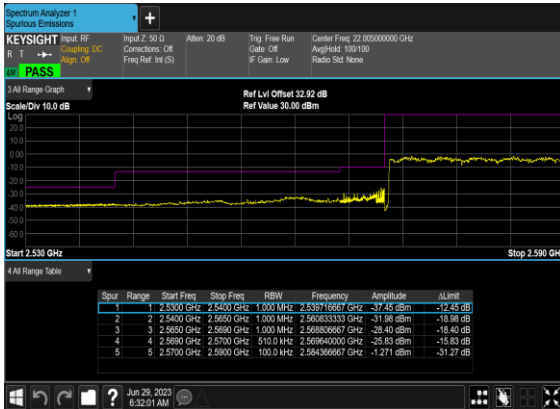
### N38(25M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



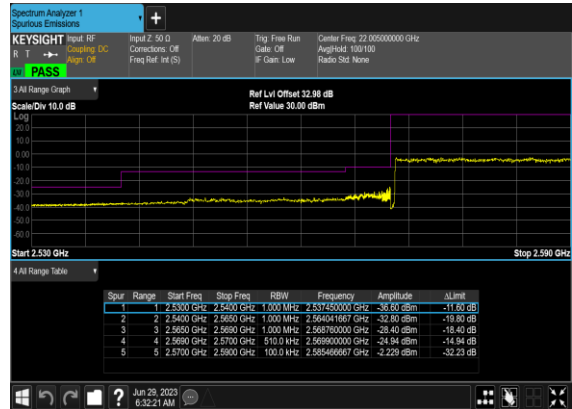
### N38(25M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



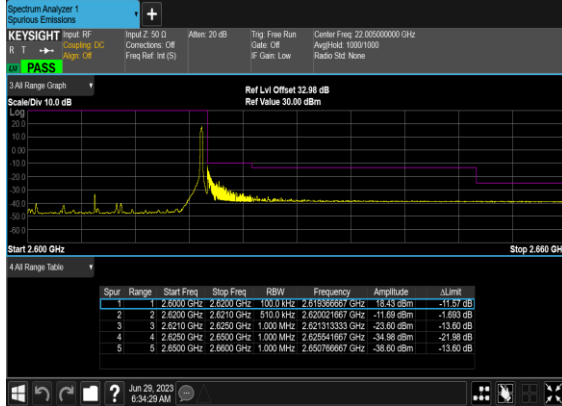
### N38(25M)\_DFT-s-OFDM\_BPSK\_Outer\_Full\_Low\_CH



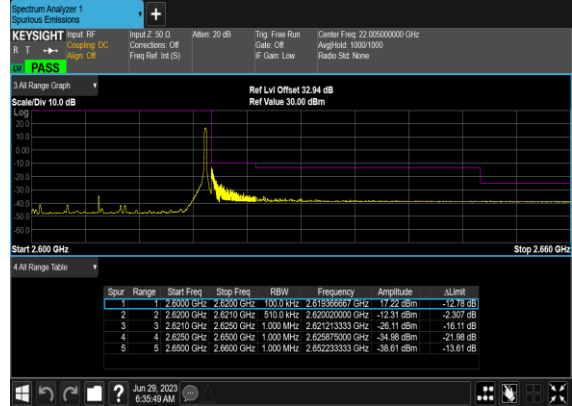
### N38(25M)\_DFT-s-OFDM\_QPSK\_Outer\_Full\_Low\_CH



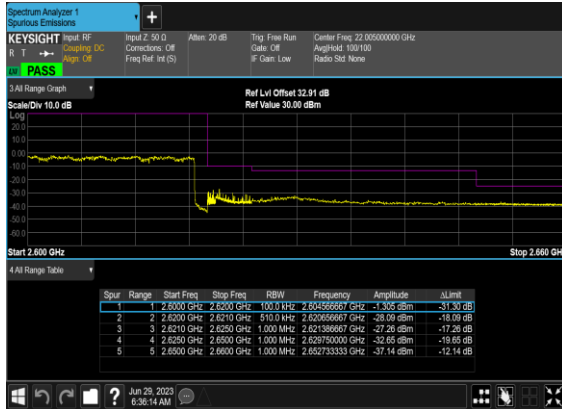
### N38(25M)\_DFT-s- OFDM\_BPSK\_Edge\_1RB\_Right\_High\_CH



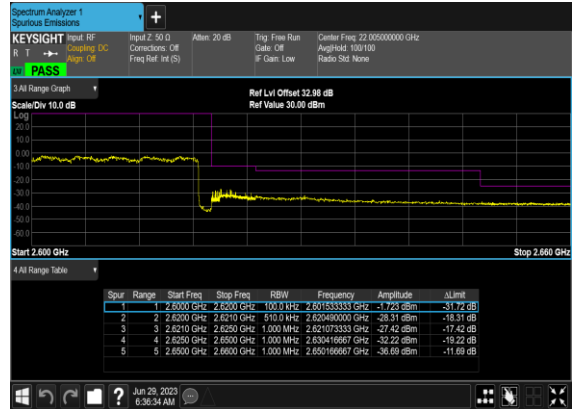
### N38(25M)\_DFT-s- OFDM\_QPSK\_Edge\_1RB\_Right\_High\_CH



### N38(25M)\_DFT-s- OFDM\_BPSK\_Outer\_Full\_High\_CH



### N38(25M)\_DFT-s- OFDM\_QPSK\_Outer\_Full\_High\_CH



# FR1 N41(ANT4) – SCS 15k

## Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
41	15	10	518601	2593.005	DFT-s-OFDM QPSK	50@0	0.0028	<b>PASS</b>	NV
41	15	10	518601	2593.005	DFT-s-OFDM QPSK	50@0	0.0016	<b>PASS</b>	LV
41	15	10	518601	2593.005	DFT-s-OFDM QPSK	50@0	-0.0013	<b>PASS</b>	HV
41	15	10	518601	2593.005	DFT-s-OFDM QPSK	50@0	0.0015	<b>PASS</b>	-30°C
41	15	10	518601	2593.005	DFT-s-OFDM QPSK	50@0	0.0023	<b>PASS</b>	-20°C
41	15	10	518601	2593.005	DFT-s-OFDM QPSK	50@0	0.0014	<b>PASS</b>	-10°C
41	15	10	518601	2593.005	DFT-s-OFDM QPSK	50@0	0.0026	<b>PASS</b>	0°C
41	15	10	518601	2593.005	DFT-s-OFDM QPSK	50@0	0.0018	<b>PASS</b>	10°C
41	15	10	518601	2593.005	DFT-s-OFDM QPSK	50@0	0.0009	<b>PASS</b>	20°C
41	15	10	518601	2593.005	DFT-s-OFDM QPSK	50@0	-0.0021	<b>PASS</b>	30°C
41	15	10	518601	2593.005	DFT-s-OFDM QPSK	50@0	0.0029	<b>PASS</b>	40°C
41	15	10	518601	2593.005	DFT-s-OFDM QPSK	50@0	0.0035	<b>PASS</b>	50°C



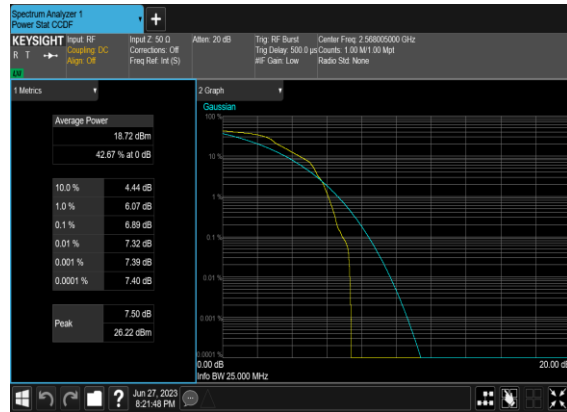
# Peak to Average Ratio

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
41	15	50	518601	2593.005	DFT-s-OFDM PI/2 BPSK	270@0	9.42	13	PASS
41	15	50	518601	2593.005	DFT-s-OFDM PI/2 BPSK	1@0	6.89	13	PASS
41	15	50	518601	2593.005	DFT-s-OFDM QPSK	270@0	10.11	13	PASS
41	15	50	518601	2593.005	DFT-s-OFDM QPSK	1@0	8.33	13	PASS

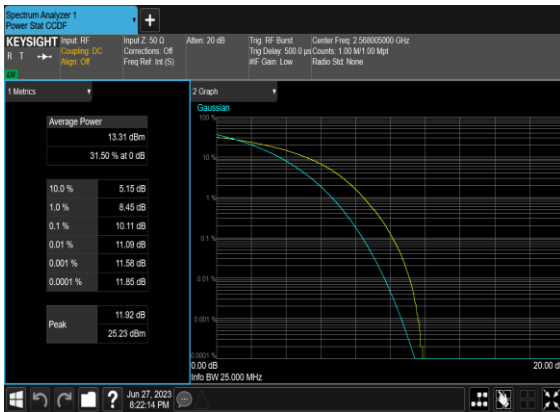
N41(50M)\_DFT-s-OFDM\_PI\_2-BPSK\_Outer\_Full\_Mid\_CH



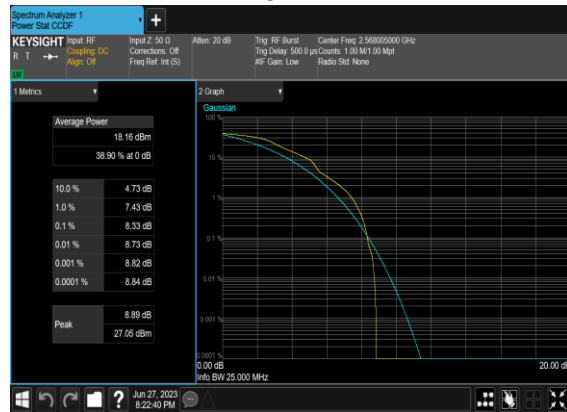
N41(50M)\_DFT-s-OFDM\_PI\_2-BPSK\_Edge\_1RB\_Left\_Mid\_CH



N41(50M)\_DFT-s-OFDM\_QPSK\_Outer\_Full\_Mid\_CH



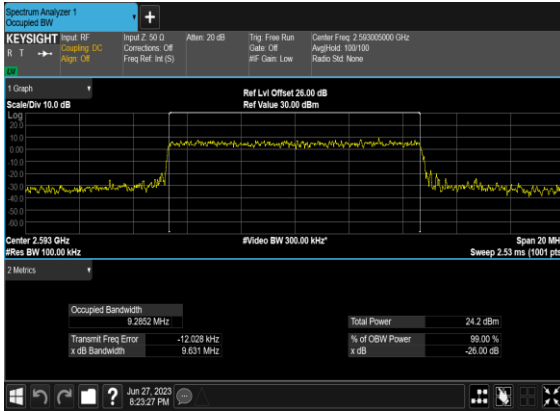
N41(50M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



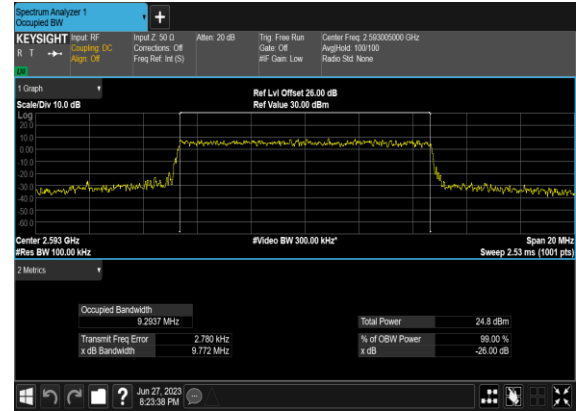
## Occupied Bandwidth

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
41	15	10	518601	2593.01	CP-OFDM QPSK	52@0	9.2852	9.631
41	15	10	518601	2593.01	CP-OFDM 16 QAM	52@0	9.2937	9.772
41	15	10	518601	2593.01	CP-OFDM 64 QAM	52@0	9.2702	9.764
41	15	10	518601	2593.01	CP-OFDM 256 QAM	52@0	9.2677	9.784
41	15	15	518601	2593.01	CP-OFDM QPSK	79@0	14.079	14.62
41	15	15	518601	2593.01	CP-OFDM 16 QAM	79@0	14.072	14.66
41	15	15	518601	2593.01	CP-OFDM 64 QAM	79@0	14.086	14.68
41	15	15	518601	2593.01	CP-OFDM 256 QAM	79@0	14.093	14.56
41	15	20	518601	2593.01	CP-OFDM QPSK	106@0	18.965	19.59
41	15	20	518601	2593.01	CP-OFDM 16 QAM	106@0	18.898	19.62
41	15	20	518601	2593.01	CP-OFDM 64 QAM	106@0	18.884	19.68
41	15	20	518601	2593.01	CP-OFDM 256 QAM	106@0	18.884	19.61
41	15	30	518601	2593.01	CP-OFDM QPSK	160@0	28.582	29.46
41	15	30	518601	2593.01	CP-OFDM 16 QAM	160@0	28.517	29.46
41	15	30	518601	2593.01	CP-OFDM 64 QAM	160@0	28.512	29.63
41	15	30	518601	2593.01	CP-OFDM 256 QAM	160@0	28.582	29.5
41	15	40	518598	2593.01	CP-OFDM QPSK	216@0	38.526	39.81
41	15	40	518598	2593.01	CP-OFDM 16 QAM	216@0	38.565	39.81
41	15	40	518598	2593.01	CP-OFDM 64 QAM	216@0	38.52	39.77
41	15	40	518598	2593.01	CP-OFDM 256 QAM	216@0	38.554	39.8
41	15	50	518601	2593.01	CP-OFDM QPSK	270@0	48.069	49.69
41	15	50	518601	2593.01	CP-OFDM 16 QAM	270@0	48.042	49.7
41	15	50	518601	2593.01	CP-OFDM 64 QAM	270@0	48.051	49.69
41	15	50	518601	2593.01	CP-OFDM 256 QAM	270@0	48.188	49.77

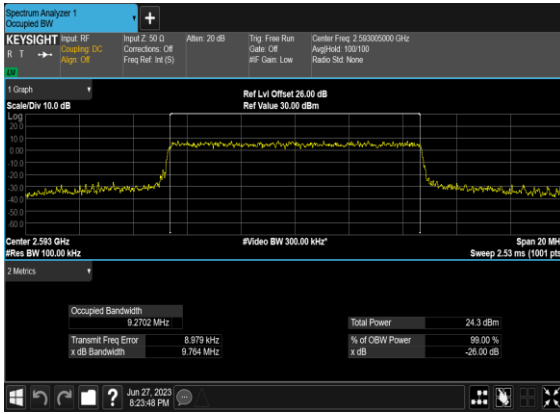
### N41(10M)\_CP-OFDM\_QPSK\_Outer\_Full\_Mid\_CH



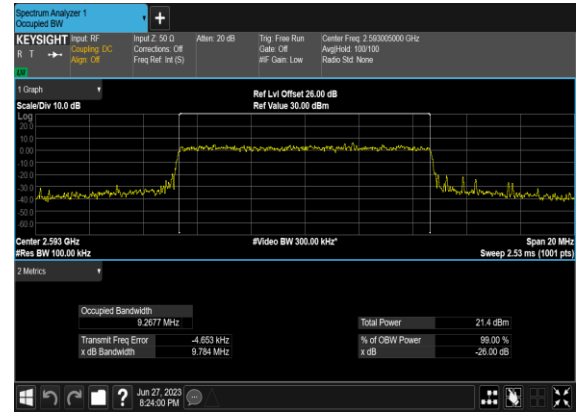
### N41(10M)\_CP-OFDM\_16QAM\_Outer\_Full\_Mid\_CH



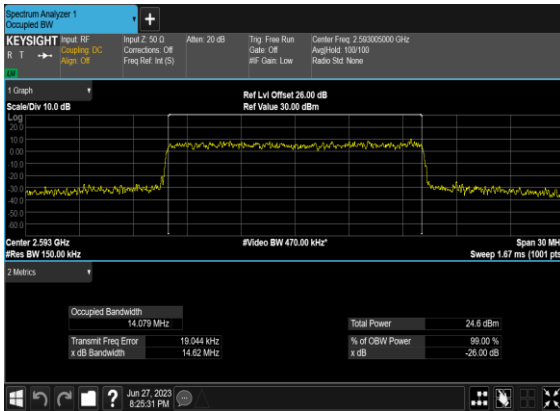
### N41(10M)\_CP-OFDM\_64QAM\_Outer\_Full\_Mid\_CH



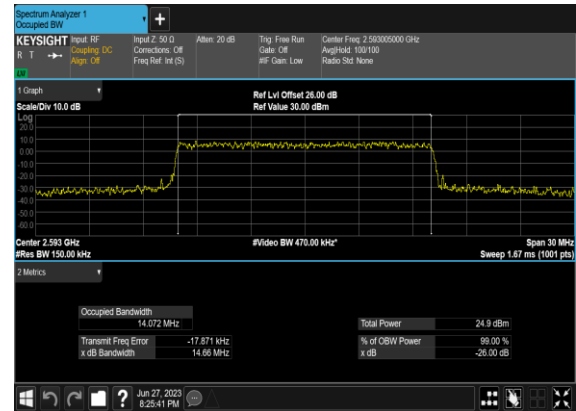
### N41(10M)\_CP-OFDM\_256QAM\_Outer\_Full\_Mid\_CH



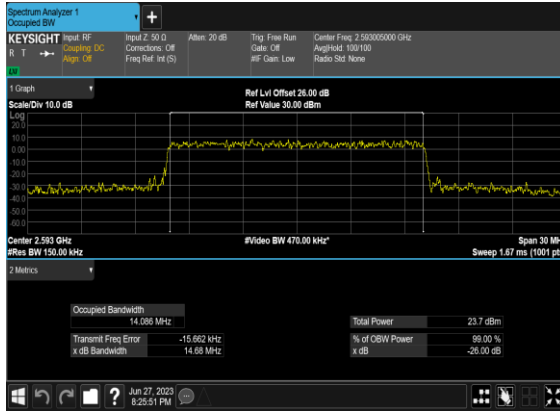
### N41(15M)\_CP-OFDM\_QPSK\_Outer\_Full\_Mid\_CH



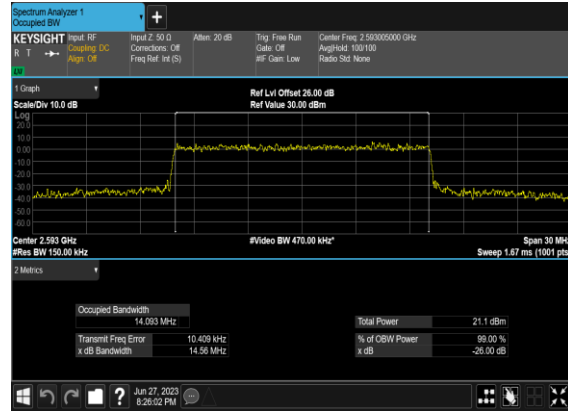
### N41(15M)\_CP-OFDM\_16QAM\_Outer\_Full\_Mid\_CH



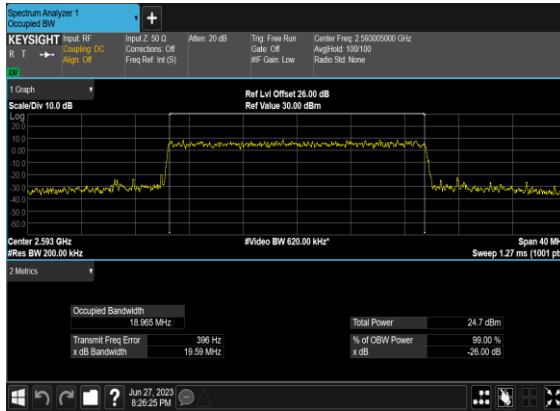
### N41(15M)\_CP-OFDM\_64 QAM\_Outer\_Full\_Mid\_CH



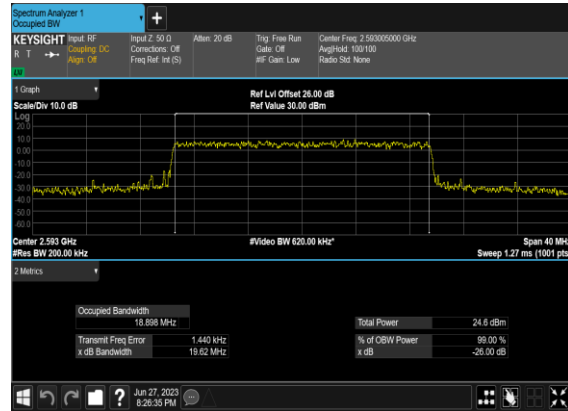
### N41(15M)\_CP-OFDM\_256 QAM\_Outer\_Full\_Mid\_CH



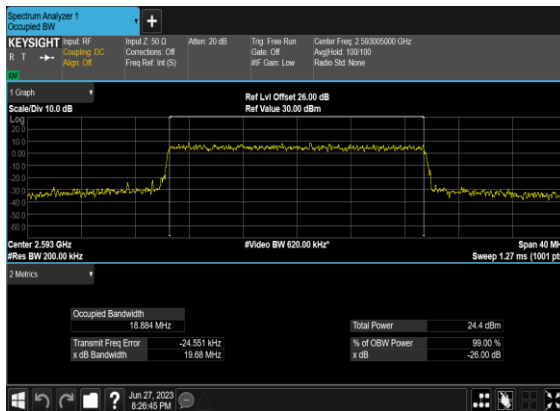
### N41(20M)\_CP- OFDM\_QPSK\_Outer\_Full\_Mid\_CH



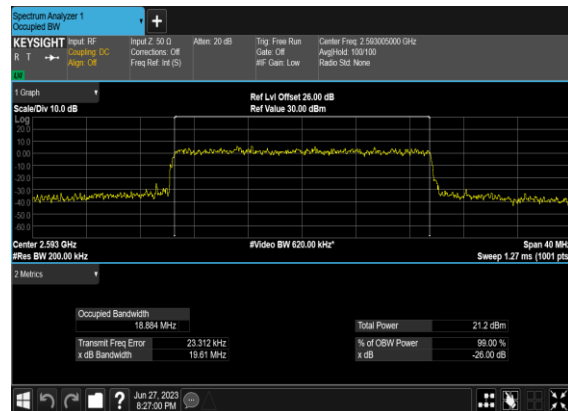
### N41(20M)\_CP-OFDM\_16 QAM\_Outer\_Full\_Mid\_CH



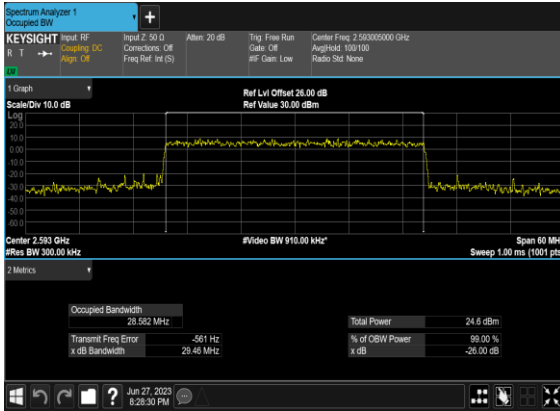
### N41(20M)\_CP-OFDM\_64 QAM\_Outer\_Full\_Mid\_CH



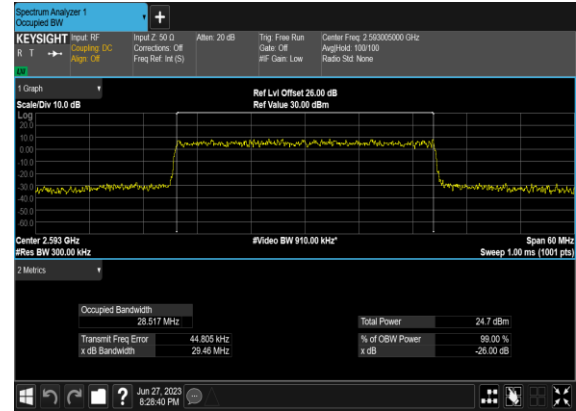
### N41(20M)\_CP-OFDM\_256 QAM\_Outer\_Full\_Mid\_CH



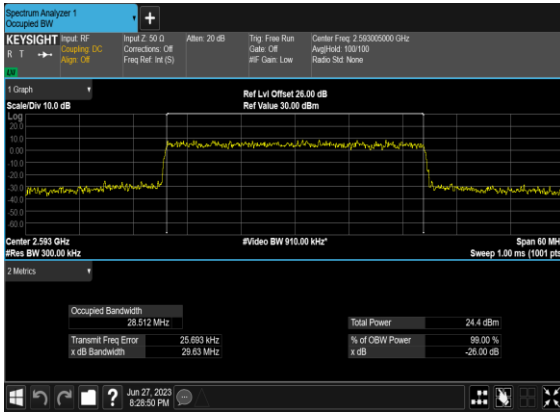
### N41(30M)\_CP- OFDM\_QPSK\_Outer\_Full\_Mid\_CH



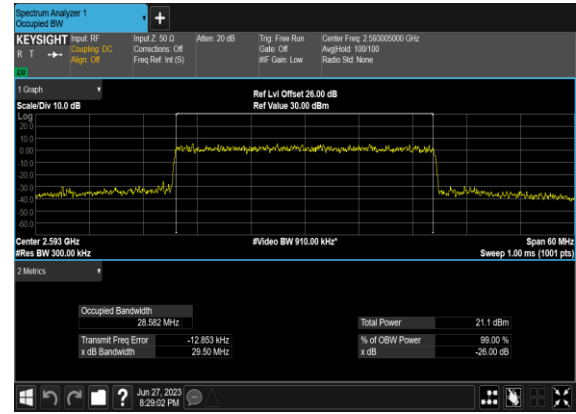
### N41(30M)\_CP-OFDM\_16 QAM\_Outer\_Full\_Mid\_CH



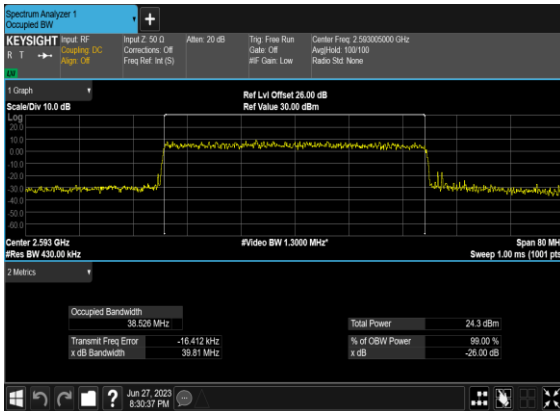
### N41(30M)\_CP-OFDM\_64 QAM\_Outer\_Full\_Mid\_CH



### N41(30M)\_CP-OFDM\_256 QAM\_Outer\_Full\_Mid\_CH



### N41(40M)\_CP- OFDM\_QPSK\_Outer\_Full\_Mid\_CH



### N41(40M)\_CP-OFDM\_16 QAM\_Outer\_Full\_Mid\_CH

