

FCC RF Test Report

APPLICANT : Motorola Mobility LLC
EQUIPMENT : Mobile Cellular Phone
BRAND NAME : Motorola
MODEL NAME : XT2139-1, XT2139-2
FCC ID : IHDT56ZU1
STANDARD : 47 CFR Part 2, Part 27 Subpart Q
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)
TEST DATE(S) : Jun. 14, 2021 ~ Jun. 21, 2021

We, Sporton International (Kunshan) Inc., 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.

This report contains data that were produced under subcontract by Sporton International (Shenzhen) Inc.

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

Jason Jia

Reviewed by: Jason Jia / Supervisor

Alex Wang

Approved by: Alex Wang / Manager



Sporton International (Kunshan) Inc.

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



TABLE OF CONTENTS

Revision History 3
Summary of Test RESULT 4
1 General Description 5
1.1 Applicant 5
1.2 Manufacturer 5
1.3 Product Feature of Equipment Under Test 5
1.4 Product Specification of Equipment Under Test 6
1.5 Modification of EUT 6
1.6 Maximum EIRP Power and Emission Designator 7
1.7 Testing Site 9
1.8 Test Software 9
1.9 Applied Standards 10
1.10 Specification of Accessory 11
2 Test Configuration of Equipment Under Test 12
2.1 Test Mode 12
2.2 Connection Diagram of Test System 13
2.3 Support Unit used in test configuration and system 13
2.4 Measurement Results Explanation Example 13
2.5 Frequency List of Low/Middle/High Channels 14
3 Conducted Test Items 17
3.1 Measuring Instruments 17
3.2 Test Setup 17
3.3 Test Result of Conducted Test 17
3.4 Conducted Output Power Measurement 18
3.5 Peak-to-Average Ratio 19
3.6 EIRP 20
3.7 Occupied Bandwidth 21
3.8 Conducted Band Edge Measurement 22
3.9 Conducted Spurious Emission Measurement 23
3.10 Frequency Stability Measurement 24
4 Radiated Test Items 25
4.1 Measuring Instruments 25
4.2 Test Setup 25
4.3 Test Result of Radiated Test 26
4.4 Radiated Spurious Emission Measurement 27
5 List of Measuring Equipment 28
6 Uncertainty of Evaluation 29
APPENDIX A. TEST RESULTS OF CONDUCTED TEST
APPENDIX B. TEST RESULTS OF RADIATED TEST
APPENDIX C. TEST SETUP PHOTOGRAPHS



REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG152401F	Rev. 01	Initial issue of report	Jul. 01, 2021



SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	Reporting Only	PASS	-
3.5	§27.50 (k)(4)	Peak-to-Average Ratio	<13dB	PASS	
3.6	§27.50 (k)(3)	EIRP	EIRP < 1W (30dBm)	PASS	-
3.7	§2.1049	Occupied Bandwidth	Reporting Only	PASS	-
3.8	§2.1051 §27.53 (n)(2)	Conducted Band Edge Measurement	-13dBm/MHz	PASS	-
3.9	§2.1051 §27.53 (n)(2)	Conducted Spurious Emission	-13dBm/MHz	PASS	-
3.10	§2.1055 §27.54	Frequency Stability Temperature & Voltage	Within the band	PASS	-
4.4	§2.1053 §27.53 (n)(2)	Radiated Spurious Emission	-13dBm/MHz	PASS	Under limit 43.34 dB at 6900.000 MHz

Declaration of Conformity:

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

Comments and Explanations:

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



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	XT2139-1, XT2139-2
FCC ID	IHDT56ZU1
EUT supports Radios application	GSM/WCDMA/LTE/5G NR WLAN 2.4GHz 802.11b/g/n HT20 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac VHT20/VHT40/VHT80 Bluetooth BR/EDR/LE FM Receiver, NFC and GNSS
IMEI Code	Conducted: 351214780015915/351214780015901 Radiation: 868253050047485/868253050047493
HW Version	DVT2
SW Version	RRK31.Q3-3
EUT Stage	Identical Prototype

1.4 Product Specification of Equipment Under Test

Product Feature	
Tx/Rx Frequency	5G NR n77/n78: 3450 MHz ~ 3550 MHz
Bandwidth	5G NR n77 : 10MHz / 15MHz / 20MHz / 40MHz / 50MHz / 60MHz / 80MHz / 90MHz / 100MHz 5G NR n78 : 10MHz / 15MHz / 20MHz / 40MHz / 50MHz / 60MHz / 70MHz / 80MHz / 90MHz / 100MHz
SCS	15kHz/30kHz
Maximum Output Power to Antenna	5G NR n77 : 26.44 dBm 5G NR n78 : 26.55 dBm
Antenna Gain	5G NR n77: -2.2 dBi 5G NR n78: -2.6 dBi
Type of Modulation	CP-OFDM: QPSK / 16QAM / 64QAM / 256QAM DFT-s-OFDM: PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM

Remark:

1. 5G NR n77/n78 support HPUE mode.
2. The device supports SA mode(n78) and EN-DC mode(n77/n78), the whole testing has assessed NSA mode by referring to the higher conducted power for conducted test items. And for NSA mode of n77/n78, we only show the combination of the maximum power among all NSA combinations in the report.
3. The EN-DC mode combination could be referred to the product spec.
4. For modulation of CP-OFDM and DFT-s-OFDM, the maximum power of CP-OFDM is lower than DFT-s-OFDM modulation, therefore, we chose higher power (DFT-s-OFDM modulation) to perform all tests and show in the report.

1.5 Modification of EUT

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

1.6 Maximum EIRP Power and Emission Designator

For SCS 15kHz:

5G NR n77 (EN DC_41A-n77A)		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	3455.01~ 3544.995	0.2472	9M36G7D	0.1871	9M37W7D
15	3457.50 ~ 3542.49	0.2559	14M2G7D	0.2080	14M3W7D
20	3460.01 ~ 3540.00	0.2523	18M9G7D	0.2061	19M1W7D
40	3470.01 ~ 3529.995	0.2655	38M9G7D	0.2193	38M9W7D
50	3475.01 ~ 3525.00	0.2594	48M7G7D	0.2051	48M6W7D
5G NR n78 (EN DC_4A-n78A)		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	3455.01~ 3544.99	0.2032	9M36G7D	0.1629	9M37W7D
15	3457.50 ~ 3542.49	0.2449	14M2G7D	0.1811	14M3W7D
20	3460.01 ~ 3540.00	0.2393	18M9G7D	0.2009	19M1W7D
40	3470.01 ~ 3529.99	0.2410	38M9G7D	0.1959	38M9W7D
50	3475.01 ~ 3525.00	0.2483	48M7G7D	0.2051	48M6W7D



For SCS 30kHz:

5G NR n77 (EN DC_41A-n77A)		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	3445.01 ~ 3544.98	0.2438	8M59G7D	0.1923	8M57W7D
15	3457.50 ~ 3542.49	0.2512	13M6G7D	0.1932	13M6W7D
20	3460.02 ~ 3540.00	0.2553	18M2G7D	0.2014	18M3W7D
40	3470.01 ~ 3529.98	0.2518	37M8G7D	0.2028	37M9W7D
50	3475.02 ~ 3525.00	0.2535	47M4G7D	0.1982	47M6W7D
60	3480.00 ~ 3519.99	0.2512	57M9G7D	0.1995	57M8W7D
80	3490.02 ~ 3510.00	0.2600	77M4G7D	0.2056	77M6W7D
90	3495.00 ~ 3504.99	0.2564	87M5G7D	0.2037	87M5W7D
100	3500.01 ~ 3500.01	0.2523	97M2G7D	0.1991	97M4W7D
5G NR n78 (EN DC_4A-n78A)		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	3445.02 ~ 3544.98	0.2455	8M59G7D	0.1968	8M57W7D
15	3457.50 ~ 3542.49	0.2466	13M6G7D	0.1950	13M6W7D
20	3460.02 ~ 3540.00	0.2415	18M2G7D	0.1945	18M3W7D
40	3470.01 ~ 3529.98	0.2265	37M8G7D	0.1816	37M9W7D
50	3475.02 ~ 3525.00	0.2307	47M4G7D	0.1816	47M6W7D
60	3480.00 ~ 3519.99	0.2265	57M9G7D	0.1807	57M8W7D
70	3485.01 ~ 3514.98	0.2344	67M4G7D	0.1811	67M5W7D
80	3490.02 ~ 3510.00	0.2275	77M4G7D	0.1811	77M6W7D
90	3495.00 ~ 3504.99	0.2280	87M5G7D	0.1820	87M5W7D
100	3500.01 ~ 3500.01	0.2472	97M2G7D	0.1803	97M4W7D

Note:

- 5G NR Band n78 overlaps the entire frequency range of Band n77. Therefore, the test results of Conducted provided in this report covers Band n78 as well as Band n77.
- All modulations have been evaluation, only the worst test results of PSK & QAM are shown in the report .

1.7 Testing Site

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

Test Firm	Sporton International (Kunshan) Inc.		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158 FAX : +86-512-57900958		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	03CH04-KS	CN1257	314309

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

Test Firm	Sporton International (Shenzhen) Inc.		
Test Site Location	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China TEL: +86-755-86379589 FAX: +86-755-86379595		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	TH01-SZ	CN1256	421272

Test data subcontracted: conducted test items in section 3.1 ~ 3.10 of this report.

1.8 Test Software

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

1.9 Applied Standards

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

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

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

1.10 Specification of Accessory

Specification of Accessory				
AC Adapter 1(US)	Brand Name	Motorola(Salom)	Model Name	MC-301
AC Adapter 1(EU)	Brand Name	Motorola(Salom)	Model Name	MC-302
AC Adapter 1(UK)	Brand Name	Motorola(Salom)	Model Name	MC-303
AC Adapter 1(AU)	Brand Name	Motorola(Salom)	Model Name	MC-305
AC Adapter 1(AR)	Brand Name	Motorola(Salom)	Model Name	MC-306
AC Adapter 1(BR)	Brand Name	Motorola(Salom)	Model Name	MC-307
AC Adapter 2(US)	Brand Name	Motorola(Acbel)	Model Name	MC-301
AC Adapter 2(EU)	Brand Name	Motorola(Acbel)	Model Name	MC-302
AC Adapter 2(UK)	Brand Name	Motorola(Acbel)	Model Name	MC-303
AC Adapter 2(IN)	Brand Name	Motorola(Acbel)	Model Name	MC-304
AC Adapter 2(AU)	Brand Name	Motorola(Acbel)	Model Name	MC-305
AC Adapter 2(AR)	Brand Name	Motorola(Acbel)	Model Name	MC-306
AC Adapter 2(CHILE)	Brand Name	Motorola(Acbel)	Model Name	MC-309
AC Adapter 3(BR)	Brand Name	Motorola(Flex)	Model Name	MC-307
Battery	Brand Name	Motorola(ATL)	Model Name	NT50
Earphone 1	Brand Name	Motorola(Lyand)	Model Name	MH191(SH38C81577)
Earphone 2	Brand Name	Motorola(LCHSE)	Model Name	MH191(SH38C81576)
Earphone 3	Brand Name	Motorola(NEW LEADER)	Model Name	MH202(S928D09678)
USB Cable 1	Brand Name	Motorola(Saibao)	Model Name	SC18D13215
USB Cable 2	Brand Name	Motorola(Cabletech)	Model Name	SC18D13216
USB Cable 3	Brand Name	Motorola(Luxshare)	Model Name	SC18D13217

2 Test Configuration of Equipment Under Test

2.1 Test Mode

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

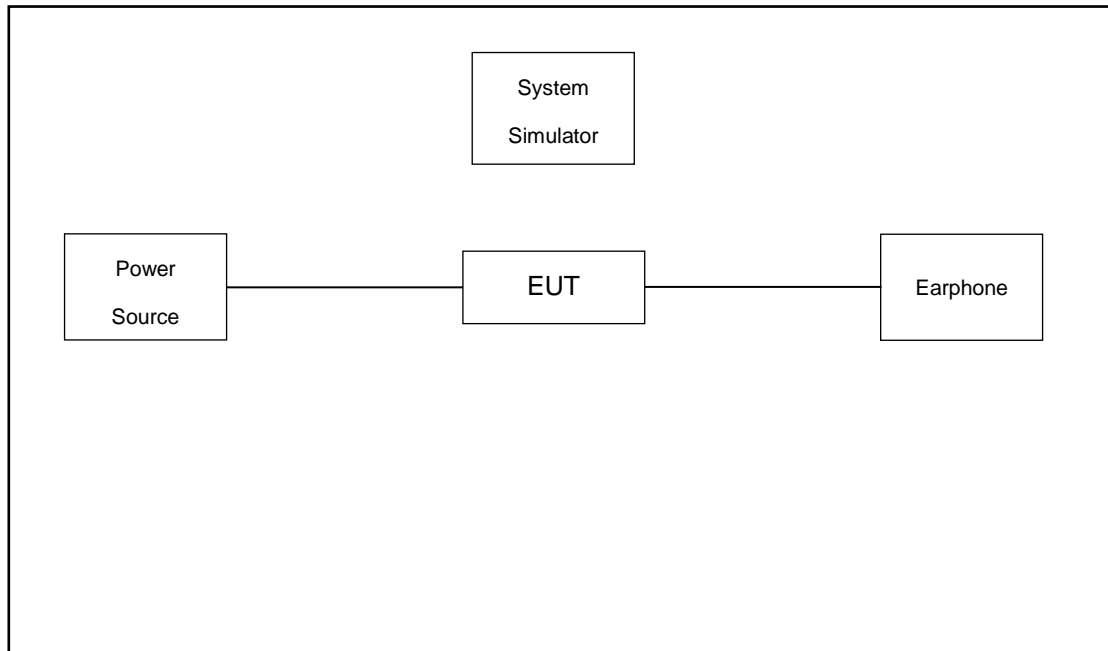
Radiated measurements are performed by rotating the EUT in three different orthogonal test planes to find the maximum emission.

Test Cases	Band	Bandwidth (MHz)	Modulation	RB #	Test Channel
		eg. 5M, 10M, 15M, 20M	eg. QPSK, 16QAM, 64QAM	1RB, Partial RB, Full RB	L/M/H
Max. Output Power	5G n77	10M, 15M, 20M, 40M, 50M, 60M, 80M, 90M, 100M	PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB, Partial RB, Full RB	L, M, H
	5G n78	10M, 15M, 20M, 40M, 50M, 60M, 70M, 80M, 90M, 100M	PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB, Partial RB, Full RB	L, M, H
Peak-to-Average Ratio	5G n78	20M	PI/2 BPSK, QPSK	1RB, Full RB	L, M, H
E.I.R.P	5G n77	10M, 15M, 20M, 40M, 50M, 60M, 80M, 90M, 100M	PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB, Partial RB, Full RB	L, M, H
	5G n78	10M, 15M, 20M, 40M, 50M, 60M, 70M, 80M, 90M, 100M	PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB, Partial RB, Full RB	L, M, H
26dB and 99% Bandwidth	5G n78	10M, 15M, 20M, 40M, 50M, 60M, 70M, 80M, 90M, 100M	PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM	Full RB	M
Conducted Band Edge	5G n78	10M, 20M, 50M, 100M	PI/2 BPSK, QPSK	1RB, Full RB	L, H
Conducted Spurious Emission	5G n78	10M, 20M, 50M, 100M	PI/2 BPSK, QPSK	1RB	L, M, H
Frequency Stability	5G n78	20M	QPSK	Full RB	M
Radiated Spurious Emission	5G n77	Worst case from maximum power			M
	5G n78	Worst case from maximum power			M

Note:

1. 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.
2. 5G NR Band n78 overlaps the entire frequency range of Band n77. Therefore, the test results provided in this report covers Band n78 as well as Band n77.
3. Based on engineering evaluation, only the worst modulations test results are shown in the report.

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	Power Supply	GWINSTEK	PSS-2002	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

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 1.78 dB and 10dB attenuator.

Example :

$$\begin{aligned}
 \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)}. \\
 &= 1.78 + 10 = 11.78 \text{ (dB)}
 \end{aligned}$$



2.5 Frequency List of Low/Middle/High Channels

For SCS 15kHz:

5G n77 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
50	Channel	631667	633333	635000
	Frequency	3475.01	3499.995	3525.00
40	Channel	631334	633333	635333
	Frequency	3470.01	3499.995	3529.995
20	Channel	630667	633333	636000
	Frequency	3460.01	3499.995	3540.00
15	Channel	630500	633333	636166
	Frequency	3457.50	3499.995	3542.49
10	Channel	630334	633333	636333
	Frequency	3455.01	3499.995	3544.995

5G n78 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
50	Channel	631667	633334	635000
	Frequency	3475.01	3500.01	3525.00
40	Channel	631334	633334	635333
	Frequency	3470.01	3500.01	3529.99
20	Channel	630667	633334	636000
	Frequency	3460.01	3500.01	3540.00
15	Channel	630500	633334	636166
	Frequency	3457.50	3500.01	3542.49
10	Channel	630334	633334	636333
	Frequency	3455.01	3500.01	3544.99

For SCS 30kHz:

5G n77 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
100	Channel	-	633334	-
	Frequency	-	3500.01	-
90	Channel	633000	633334	633666
	Frequency	3495.00	3500.01	3504.99
80	Channel	632668	633334	634000
	Frequency	3490.02	3500.01	3510.00
60	Channel	632000	633334	634666
	Frequency	3480.00	3500.01	3519.99
50	Channel	631668	633334	635000
	Frequency	3475.02	3500.01	3525.00
40	Channel	631334	633334	635332
	Frequency	3470.01	3500.01	3529.98
20	Channel	630668	633334	636000
	Frequency	3460.02	3500.01	3540.00
15	Channel	630500	633334	636166
	Frequency	3457.50	3500.01	3542.49
10	Channel	630334	633334	636332
	Frequency	3455.01	3500.01	3544.98



5G n78 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
100	Channel	-	633334	-
	Frequency	-	3500.01	-
90	Channel	633000	633334	633666
	Frequency	3495.00	3500.01	3504.99
80	Channel	632668	633334	634000
	Frequency	3490.02	3500.01	3510.00
70	Channel	632334	633334	634332
	Frequency	3485.01	3500.01	3514.98
60	Channel	632000	633334	634666
	Frequency	3480.00	3500.01	3519.99
50	Channel	631668	633334	635000
	Frequency	3475.02	3500.01	3525.00
40	Channel	631334	633334	635332
	Frequency	3470.01	3500.01	3529.98
20	Channel	630668	633334	636000
	Frequency	3460.02	3500.01	3540.00
15	Channel	630500	633334	636166
	Frequency	3457.50	3500.01	3542.49
10	Channel	629668	633334	636332
	Frequency	3445.02	3500.01	3544.98

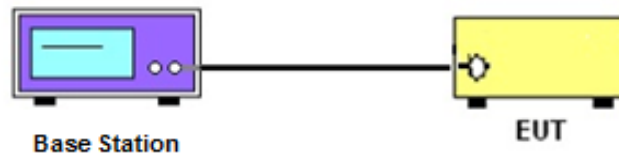
3 Conducted Test Items

3.1 Measuring Instruments

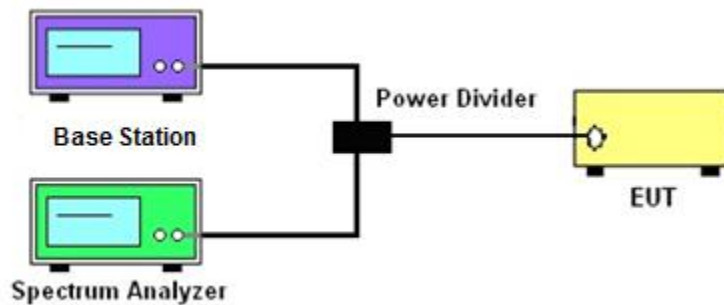
See list of measuring instruments of this test report.

3.2 Test Setup

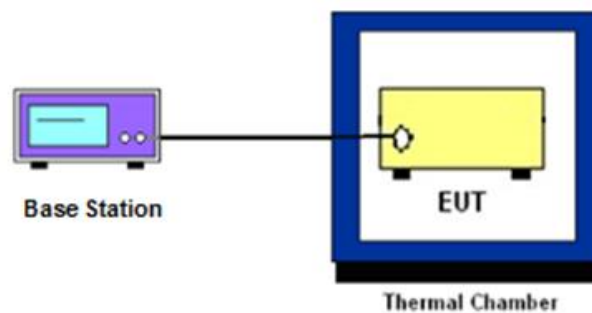
3.2.1 Conducted Output Power



3.2.2 Peak-to-Average Ratio, Occupied / 26dB Bandwidth, 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 Measurement

3.4.1 Description of the Conducted Output Power Measurement

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

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 EIRP

3.6.1 Description of EIRP Limit

§ 27.50 (k)(3)

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

3.6.2 Test Procedures

1. According to KDB 412172 D01 Power Approach,
2. $EIRP = P_T + G_T - L_C$, $ERP = EIRP - 2.15$, 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

3.7 Occupied Bandwidth

3.7.1 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.

3.7.2 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.



3.8 Conducted Band Edge Measurement

3.8.1 Description of Conducted Band Edge Measurement

§ 27.53 (n)(2)

For mobile operations in the 3450-3550 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, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed, but limited to a maximum of 200 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.

3.8.2 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 band edges of low and high channels for the highest RF powers were measured.
4. Set RBW \geq 1% EBW but limited to a maximum of 200 kHz in the 1MHz band immediately outside and adjacent to the band edge.
5. Beyond the 1 MHz and 5 MHz removed from the band edge, set RBW \geq 500KHz.
6. Beyond the 5 MHz removed from the band edge, set RBW = 1MHz.
7. Set spectrum analyzer with RMS detector.
8. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
9. Checked that all the results comply with the emission limit line.

3.9 Conducted Spurious Emission Measurement

3.9.1 Description of Conducted Spurious Emission Measurement

The power of any emission outside of the authorized operating frequency ranges shall not exceed -13 dBm/MHz.

It is measured by means of a calibrated spectrum analyzer and scanned from 9 kHz up to a frequency including its 10th harmonic.

3.9.2 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. Checked that all the results comply with the emission limit line.

3.10 Frequency Stability Measurement

3.10.1 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.

3.10.2 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°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°C step up to 50°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.

3.10.3 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.

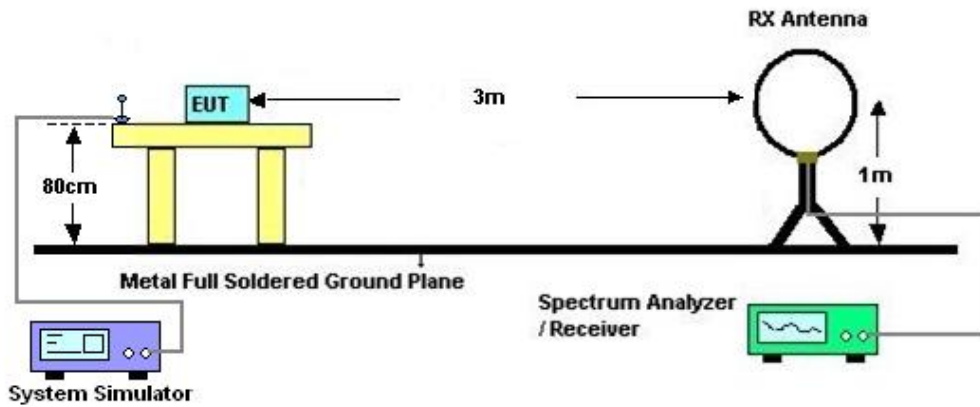
4 Radiated Test Items

4.1 Measuring Instruments

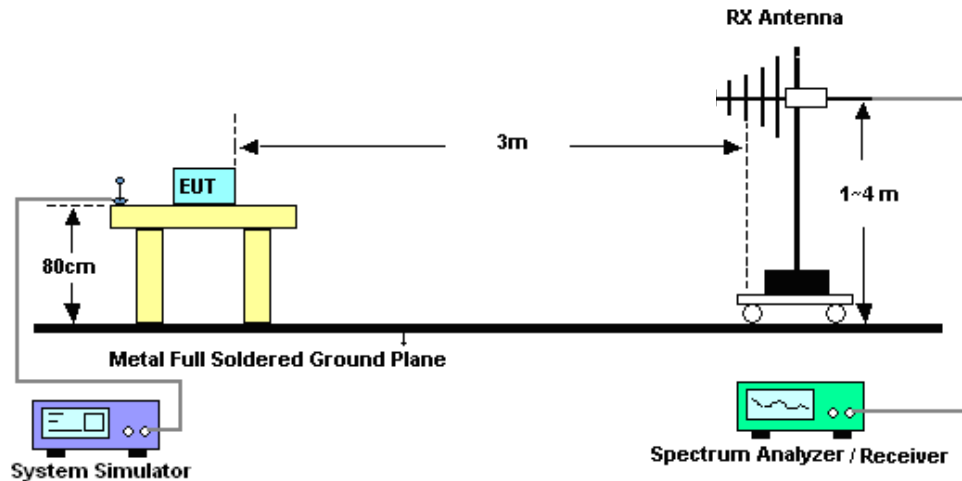
See list of measuring instruments of this test report.

4.2 Test Setup

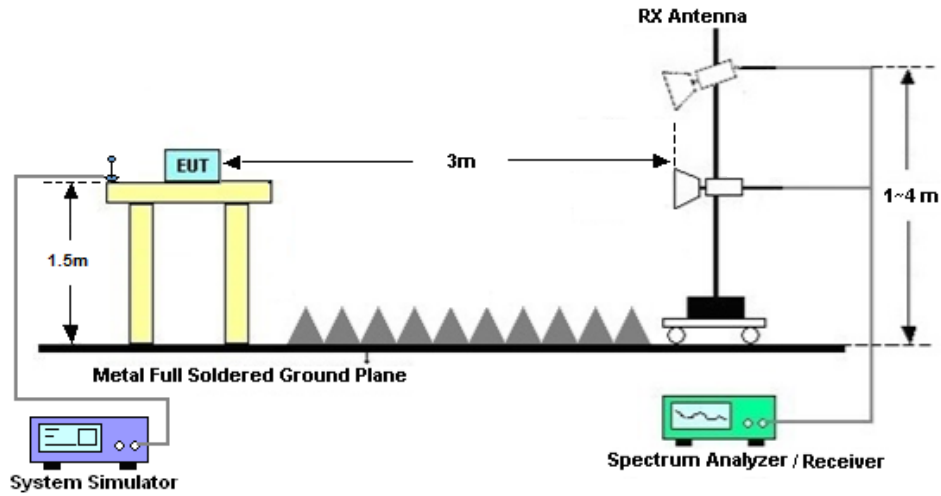
4.2.1 For radiated test below 30MHz



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 Measurement

4.4.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI/TIA-603-E. The power of any emission outside of the authorized operating frequency ranges shall not exceed -13 dBm/MHz.

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.
$$\text{EIRP (dBm)} = \text{S.G. Power} - \text{Tx Cable Loss} + \text{Tx Antenna Gain}$$
$$\text{ERP (dBm)} = \text{EIRP} - 2.15$$
10. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.



5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 08, 2021	Jun. 14, 2021	Apr. 07, 2022	Conducted (TH01-SZ)
Power divider	STI	STI08-0055	-	0.5~40GHz	Aug. 27, 2020	Jun. 14, 2021	Aug. 26, 2021	Conducted (TH01-KS)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 22, 2020	Jun. 14, 2021	Jul. 21, 2021	Conducted (TH01-SZ)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150244	10Hz-44G,MAX 30dB	Apr. 13, 2021	Jun. 21, 2021	Apr. 12, 2022	Radiation (03CH04-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Nov. 1, 2020	Jun. 21, 2021	Oct. 31, 2021	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	49922	30MHz-1GHz	Jun. 07, 2021	Jun. 21, 2021	Jun. 06, 2022	Radiation (03CH04-KS)
Horn Antenna	Schwarzbeck	BBHA9120D	1356	1GHz~18GHz	Apr. 18, 2021	Jun. 21, 2021	Apr. 17, 2022	Radiation (03CH04-KS)
SHF-EHF Horn	Com-power	AH-840	101115	18GHz~40GHz	Jan. 06, 2021	Jun. 21, 2021	Jan. 05, 2022	Radiation (03CH04-KS)
Amplifier	SONOMA	310N	187289	9KHz-1GHz	Jan. 06, 2021	Jun. 21, 2021	Jan. 05, 2022	Radiation (03CH04-KS)
Amplifier	MITEQ	EM18G40G GA	060728	18~40GHz	Jan. 07, 2021	Jun. 21, 2021	Jan. 06, 2022	Radiation (03CH04-KS)
high gain Amplifier	MITEQ	AMF-7D-00 101800-30-1 0P	2025788	1Ghz-18Ghz	Jan. 06, 2021	Jun. 21, 2021	Jan. 05, 2022	Radiation (03CH04-KS)
Amplifier	Keysight	83017A	MY57280106	500MHz~26.5GHz	Oct. 14, 2020	Jun. 21, 2021	Oct. 13, 2021	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Jun. 21, 2021	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Jun. 21, 2021	NCR	Radiation (03CH04-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Jun. 21, 2021	NCR	Radiation (03CH04-KS)

NCR: No Calibration Required

6 Uncertainty of Evaluation

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 Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.3dB
---	-------

Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.8dB
---	-------

Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.8dB
---	-------



Appendix A. Test Results of Conducted Test

FR1 N77

LTE Band: 41, LTE BW: 20M, LTE ARFCN: Mid

Transmitter Conducted Output Power And ERP/EIRP, ($G_T - L_C$)=-2.2dB

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	EIRP (dBm)	EIRP (W)
77	15	10	630334	3455.01	DFT-s-OFDM PI/2 BPSK	25@12	26.04	23.84	0.2421
77	15	10	630334	3455.01	DFT-s-OFDM PI/2 BPSK	1@1	25.98	23.78	0.2388
77	15	10	630334	3455.01	DFT-s-OFDM PI/2 BPSK	1@50	26.09	23.89	0.2449
77	15	10	630334	3455.01	DFT-s-OFDM QPSK	25@12	26.13	23.93	0.2472
77	15	10	630334	3455.01	DFT-s-OFDM QPSK	1@1	25.85	23.65	0.2317
77	15	10	630334	3455.01	DFT-s-OFDM QPSK	1@50	26.03	23.83	0.2415
77	15	10	630334	3455.01	DFT-s-OFDM 16 QAM	25@12	24.86	22.66	0.1845
77	15	10	630334	3455.01	DFT-s-OFDM 16 QAM	1@1	23.64	21.44	0.1393
77	15	10	630334	3455.01	DFT-s-OFDM 16 QAM	1@50	23.58	21.38	0.1374
77	15	10	630334	3455.01	DFT-s-OFDM 64 QAM	25@12	23.6	21.4	0.1380
77	15	10	630334	3455.01	DFT-s-OFDM 64 QAM	1@1	23.52	21.32	0.1355
77	15	10	630334	3455.01	DFT-s-OFDM 64 QAM	1@50	23.09	20.89	0.1227
77	15	10	630334	3455.01	DFT-s-OFDM 256 QAM	25@12	21.59	19.39	0.0869
77	15	10	630334	3455.01	DFT-s-OFDM 256 QAM	1@1	21.66	19.46	0.0883
77	15	10	630334	3455.01	DFT-s-OFDM 256 QAM	1@50	21.25	19.05	0.0804
77	15	10	630334	3455.01	CP-OFDM QPSK	26@13	24.58	22.38	0.1730
77	15	10	630334	3455.01	CP-OFDM QPSK	1@1	24.48	22.28	0.1690
77	15	10	630334	3455.01	CP-OFDM QPSK	1@50	24.52	22.32	0.1706

77	15	10	633333	3499.995	DFT-s-OFDM PI/2 BPSK	25@12	25.77	23.57	0.2275
77	15	10	633333	3499.995	DFT-s-OFDM PI/2 BPSK	1@1	25.85	23.65	0.2317
77	15	10	633333	3499.995	DFT-s-OFDM PI/2 BPSK	1@50	25.9	23.7	0.2344
77	15	10	633333	3499.995	DFT-s-OFDM QPSK	25@12	25.58	23.38	0.2178
77	15	10	633333	3499.995	DFT-s-OFDM QPSK	1@1	25.77	23.57	0.2275
77	15	10	633333	3499.995	DFT-s-OFDM QPSK	1@50	25.7	23.5	0.2239
77	15	10	633333	3499.995	DFT-s-OFDM 16 QAM	25@12	24.76	22.56	0.1803
77	15	10	633333	3499.995	DFT-s-OFDM 16 QAM	1@1	24.86	22.66	0.1845
77	15	10	633333	3499.995	DFT-s-OFDM 16 QAM	1@50	24.79	22.59	0.1816
77	15	10	633333	3499.995	DFT-s-OFDM 64 QAM	25@12	23.37	21.17	0.1309
77	15	10	633333	3499.995	DFT-s-OFDM 64 QAM	1@1	23.11	20.91	0.1233
77	15	10	633333	3499.995	DFT-s-OFDM 64 QAM	1@50	22.98	20.78	0.1197
77	15	10	633333	3499.995	DFT-s-OFDM 256 QAM	25@12	21.52	19.32	0.0855
77	15	10	633333	3499.995	DFT-s-OFDM 256 QAM	1@1	21.29	19.09	0.0811
77	15	10	633333	3499.995	DFT-s-OFDM 256 QAM	1@50	21.19	18.99	0.0793
77	15	10	633333	3499.995	CP-OFDM QPSK	26@13	24.01	21.81	0.1517
77	15	10	633333	3499.995	CP-OFDM QPSK	1@1	24.42	22.22	0.1667
77	15	10	633333	3499.995	CP-OFDM QPSK	1@50	24.43	22.23	0.1671
77	15	10	636333	3544.995	DFT-s-OFDM PI/2 BPSK	25@12	25.88	23.68	0.2333
77	15	10	636333	3544.995	DFT-s-OFDM PI/2 BPSK	1@1	25.88	23.68	0.2333
77	15	10	636333	3544.995	DFT-s-OFDM PI/2 BPSK	1@50	25.83	23.63	0.2307
77	15	10	636333	3544.995	DFT-s-OFDM QPSK	25@12	25.86	23.66	0.2323
77	15	10	636333	3544.995	DFT-s-OFDM QPSK	1@1	25.86	23.66	0.2323
77	15	10	636333	3544.995	DFT-s-OFDM QPSK	1@50	25.87	23.67	0.2328

77	15	10	636333	3544.995	DFT-s-OFDM 16 QAM	25@12	24.92	22.72	0.1871
77	15	10	636333	3544.995	DFT-s-OFDM 16 QAM	1@1	24.84	22.64	0.1837
77	15	10	636333	3544.995	DFT-s-OFDM 16 QAM	1@50	24.92	22.72	0.1871
77	15	10	636333	3544.995	DFT-s-OFDM 64 QAM	25@12	23.34	21.14	0.1300
77	15	10	636333	3544.995	DFT-s-OFDM 64 QAM	1@1	23.48	21.28	0.1343
77	15	10	636333	3544.995	DFT-s-OFDM 64 QAM	1@50	23.51	21.31	0.1352
77	15	10	636333	3544.995	DFT-s-OFDM 256 QAM	25@12	21.48	19.28	0.0847
77	15	10	636333	3544.995	DFT-s-OFDM 256 QAM	1@1	21	18.8	0.0759
77	15	10	636333	3544.995	DFT-s-OFDM 256 QAM	1@50	21.26	19.06	0.0805
77	15	10	636333	3544.995	CP-OFDM QPSK	26@13	24.37	22.17	0.1648
77	15	10	636333	3544.995	CP-OFDM QPSK	1@1	24.3	22.1	0.1622
77	15	10	636333	3544.995	CP-OFDM QPSK	1@50	24.29	22.09	0.1618
77	15	15	630500	3457.5	DFT-s-OFDM PI/2 BPSK	36@18	26.24	24.04	0.2535
77	15	15	630500	3457.5	DFT-s-OFDM PI/2 BPSK	1@1	26.09	23.89	0.2449
77	15	15	630500	3457.5	DFT-s-OFDM PI/2 BPSK	1@77	26.08	23.88	0.2443
77	15	15	630500	3457.5	DFT-s-OFDM QPSK	36@18	26.28	24.08	0.2559
77	15	15	630500	3457.5	DFT-s-OFDM QPSK	1@1	26.13	23.93	0.2472
77	15	15	630500	3457.5	DFT-s-OFDM QPSK	1@77	26.1	23.9	0.2455
77	15	15	630500	3457.5	DFT-s-OFDM 16 QAM	36@18	25.31	23.11	0.2046
77	15	15	630500	3457.5	DFT-s-OFDM 16 QAM	1@1	25.38	23.18	0.2080
77	15	15	630500	3457.5	DFT-s-OFDM 16 QAM	1@77	25.25	23.05	0.2018
77	15	15	630500	3457.5	DFT-s-OFDM 64 QAM	36@18	23.7	21.5	0.1413
77	15	15	630500	3457.5	DFT-s-OFDM 64 QAM	1@1	23.66	21.46	0.1400
77	15	15	630500	3457.5	DFT-s-OFDM 64 QAM	1@77	23.73	21.53	0.1422

77	15	15	630500	3457.5	DFT-s-OFDM 256 QAM	36@18	21.7	19.5	0.0891
77	15	15	630500	3457.5	DFT-s-OFDM 256 QAM	1@1	21.26	19.06	0.0805
77	15	15	630500	3457.5	DFT-s-OFDM 256 QAM	1@77	21.76	19.56	0.0904
77	15	15	630500	3457.5	CP-OFDM QPSK	39@191	23.16	20.96	0.1247
77	15	15	630500	3457.5	CP-OFDM QPSK	1@1	24.51	22.31	0.1702
77	15	15	630500	3457.5	CP-OFDM QPSK	1@77	24.41	22.21	0.1663
77	15	15	633333	3499.995	DFT-s-OFDM PI/2 BPSK	36@18	26.12	23.92	0.2466
77	15	15	633333	3499.995	DFT-s-OFDM PI/2 BPSK	1@1	26.05	23.85	0.2427
77	15	15	633333	3499.995	DFT-s-OFDM PI/2 BPSK	1@77	25.93	23.73	0.2360
77	15	15	633333	3499.995	DFT-s-OFDM QPSK	36@18	26.21	24.01	0.2518
77	15	15	633333	3499.995	DFT-s-OFDM QPSK	1@1	26.16	23.96	0.2489
77	15	15	633333	3499.995	DFT-s-OFDM QPSK	1@77	26.02	23.82	0.2410
77	15	15	633333	3499.995	DFT-s-OFDM 16 QAM	36@18	25.08	22.88	0.1941
77	15	15	633333	3499.995	DFT-s-OFDM 16 QAM	1@1	25.13	22.93	0.1963
77	15	15	633333	3499.995	DFT-s-OFDM 16 QAM	1@77	24.97	22.77	0.1892
77	15	15	633333	3499.995	DFT-s-OFDM 64 QAM	36@18	23.73	21.53	0.1422
77	15	15	633333	3499.995	DFT-s-OFDM 64 QAM	1@1	23.8	21.6	0.1445
77	15	15	633333	3499.995	DFT-s-OFDM 64 QAM	1@77	23.68	21.48	0.1406
77	15	15	633333	3499.995	DFT-s-OFDM 256 QAM	36@18	21.85	19.65	0.0923
77	15	15	633333	3499.995	DFT-s-OFDM 256 QAM	1@1	21.23	19.03	0.0800
77	15	15	633333	3499.995	DFT-s-OFDM 256 QAM	1@77	21.11	18.91	0.0778
77	15	15	633333	3499.995	CP-OFDM QPSK	39@191	23.11	20.91	0.1233
77	15	15	633333	3499.995	CP-OFDM QPSK	1@1	24.57	22.37	0.1726
77	15	15	633333	3499.995	CP-OFDM QPSK	1@77	24.57	22.37	0.1726

77	15	15	636166	3542.49	DFT-s-OFDM PI/2 BPSK	36@18	26.08	23.88	0.2443
77	15	15	636166	3542.49	DFT-s-OFDM PI/2 BPSK	1@1	26	23.8	0.2399
77	15	15	636166	3542.49	DFT-s-OFDM PI/2 BPSK	1@77	25.88	23.68	0.2333
77	15	15	636166	3542.49	DFT-s-OFDM QPSK	36@18	26.11	23.91	0.2460
77	15	15	636166	3542.49	DFT-s-OFDM QPSK	1@1	25.91	23.71	0.2350
77	15	15	636166	3542.49	DFT-s-OFDM QPSK	1@77	25.98	23.78	0.2388
77	15	15	636166	3542.49	DFT-s-OFDM 16 QAM	36@18	25	22.8	0.1905
77	15	15	636166	3542.49	DFT-s-OFDM 16 QAM	1@1	24.95	22.75	0.1884
77	15	15	636166	3542.49	DFT-s-OFDM 16 QAM	1@77	24.99	22.79	0.1901
77	15	15	636166	3542.49	DFT-s-OFDM 64 QAM	36@18	23.5	21.3	0.1349
77	15	15	636166	3542.49	DFT-s-OFDM 64 QAM	1@1	23.77	21.57	0.1435
77	15	15	636166	3542.49	DFT-s-OFDM 64 QAM	1@77	23.36	21.16	0.1306
77	15	15	636166	3542.49	DFT-s-OFDM 256 QAM	36@18	21.67	19.47	0.0885
77	15	15	636166	3542.49	DFT-s-OFDM 256 QAM	1@1	21.21	19.01	0.0796
77	15	15	636166	3542.49	DFT-s-OFDM 256 QAM	1@77	21.1	18.9	0.0776
77	15	15	636166	3542.49	CP-OFDM QPSK	39@191	23.03	20.83	0.1211
77	15	15	636166	3542.49	CP-OFDM QPSK	1@1	24.56	22.36	0.1722
77	15	15	636166	3542.49	CP-OFDM QPSK	1@77	24.28	22.08	0.1614
77	15	20	630667	3460.01	DFT-s-OFDM PI/2 BPSK	50@25	26.08	23.88	0.2443
77	15	20	630667	3460.01	DFT-s-OFDM PI/2 BPSK	1@1	26.13	23.93	0.2472
77	15	20	630667	3460.01	DFT-s-OFDM PI/2 BPSK	1@104	26.1	23.9	0.2455
77	15	20	630667	3460.01	DFT-s-OFDM QPSK	50@25	25.98	23.78	0.2388
77	15	20	630667	3460.01	DFT-s-OFDM QPSK	1@1	26.08	23.88	0.2443
77	15	20	630667	3460.01	DFT-s-OFDM QPSK	1@104	26.14	23.94	0.2477

77	15	20	630667	3460.01	DFT-s-OFDM 16 QAM	50@25	25.34	23.14	0.2061
77	15	20	630667	3460.01	DFT-s-OFDM 16 QAM	1@1	25.23	23.03	0.2009
77	15	20	630667	3460.01	DFT-s-OFDM 16 QAM	1@104	25.28	23.08	0.2032
77	15	20	630667	3460.01	DFT-s-OFDM 64 QAM	50@25	23.7	21.5	0.1413
77	15	20	630667	3460.01	DFT-s-OFDM 64 QAM	1@1	23.78	21.58	0.1439
77	15	20	630667	3460.01	DFT-s-OFDM 64 QAM	1@104	23.58	21.38	0.1374
77	15	20	630667	3460.01	DFT-s-OFDM 256 QAM	50@25	21.89	19.69	0.0931
77	15	20	630667	3460.01	DFT-s-OFDM 256 QAM	1@1	21.27	19.07	0.0807
77	15	20	630667	3460.01	DFT-s-OFDM 256 QAM	1@104	21.34	19.14	0.0820
77	15	20	630667	3460.01	CP-OFDM QPSK	53@26	24.75	22.55	0.1799
77	15	20	630667	3460.01	CP-OFDM QPSK	1@1	24.59	22.39	0.1734
77	15	20	630667	3460.01	CP-OFDM QPSK	1@104	24.7	22.5	0.1778
77	15	20	633333	3499.995	DFT-s-OFDM PI/2 BPSK	50@25	26.15	23.95	0.2483
77	15	20	633333	3499.995	DFT-s-OFDM PI/2 BPSK	1@1	26.22	24.02	0.2523
77	15	20	633333	3499.995	DFT-s-OFDM PI/2 BPSK	1@104	26.08	23.88	0.2443
77	15	20	633333	3499.995	DFT-s-OFDM QPSK	50@25	26.17	23.97	0.2495
77	15	20	633333	3499.995	DFT-s-OFDM QPSK	1@1	25.85	23.65	0.2317
77	15	20	633333	3499.995	DFT-s-OFDM QPSK	1@104	25.95	23.75	0.2371
77	15	20	633333	3499.995	DFT-s-OFDM 16 QAM	50@25	25.12	22.92	0.1959
77	15	20	633333	3499.995	DFT-s-OFDM 16 QAM	1@1	25.15	22.95	0.1972
77	15	20	633333	3499.995	DFT-s-OFDM 16 QAM	1@104	24.99	22.79	0.1901
77	15	20	633333	3499.995	DFT-s-OFDM 64 QAM	50@25	23.62	21.42	0.1387
77	15	20	633333	3499.995	DFT-s-OFDM 64 QAM	1@1	23.98	21.78	0.1507
77	15	20	633333	3499.995	DFT-s-OFDM 64 QAM	1@104	23.72	21.52	0.1419

77	15	20	633333	3499.995	DFT-s-OFDM 256 QAM	50@25	21.8	19.6	0.0912
77	15	20	633333	3499.995	DFT-s-OFDM 256 QAM	1@1	21.31	19.11	0.0815
77	15	20	633333	3499.995	DFT-s-OFDM 256 QAM	1@104	21.17	18.97	0.0789
77	15	20	633333	3499.995	CP-OFDM QPSK	53@26	24.48	22.28	0.1690
77	15	20	633333	3499.995	CP-OFDM QPSK	1@1	24.44	22.24	0.1675
77	15	20	633333	3499.995	CP-OFDM QPSK	1@104	24.5	22.3	0.1698
77	15	20	636000	3540.0	DFT-s-OFDM PI/2 BPSK	50@25	26.11	23.91	0.2460
77	15	20	636000	3540.0	DFT-s-OFDM PI/2 BPSK	1@1	25.97	23.77	0.2382
77	15	20	636000	3540.0	DFT-s-OFDM PI/2 BPSK	1@104	25.84	23.64	0.2312
77	15	20	636000	3540.0	DFT-s-OFDM QPSK	50@25	26.13	23.93	0.2472
77	15	20	636000	3540.0	DFT-s-OFDM QPSK	1@1	26.08	23.88	0.2443
77	15	20	636000	3540.0	DFT-s-OFDM QPSK	1@104	26.11	23.91	0.2460
77	15	20	636000	3540.0	DFT-s-OFDM 16 QAM	50@25	25.14	22.94	0.1968
77	15	20	636000	3540.0	DFT-s-OFDM 16 QAM	1@1	24.92	22.72	0.1871
77	15	20	636000	3540.0	DFT-s-OFDM 16 QAM	1@104	25.17	22.97	0.1982
77	15	20	636000	3540.0	DFT-s-OFDM 64 QAM	50@25	23.53	21.33	0.1358
77	15	20	636000	3540.0	DFT-s-OFDM 64 QAM	1@1	23.77	21.57	0.1435
77	15	20	636000	3540.0	DFT-s-OFDM 64 QAM	1@104	23.85	21.65	0.1462
77	15	20	636000	3540.0	DFT-s-OFDM 256 QAM	50@25	21.57	19.37	0.0865
77	15	20	636000	3540.0	DFT-s-OFDM 256 QAM	1@1	21.37	19.17	0.0826
77	15	20	636000	3540.0	DFT-s-OFDM 256 QAM	1@104	21.07	18.87	0.0771
77	15	20	636000	3540.0	CP-OFDM QPSK	53@26	24.52	22.32	0.1706
77	15	20	636000	3540.0	CP-OFDM QPSK	1@1	24.38	22.18	0.1652
77	15	20	636000	3540.0	CP-OFDM QPSK	1@104	24.46	22.26	0.1683

77	15	40	631334	3470.01	DFT-s-OFDM PI/2 BPSK	50@25	25.88	23.68	0.2333
77	15	40	631334	3470.01	DFT-s-OFDM PI/2 BPSK	1@1	26.18	23.98	0.2500
77	15	40	631334	3470.01	DFT-s-OFDM PI/2 BPSK	1@104	26.19	23.99	0.2506
77	15	40	631334	3470.01	DFT-s-OFDM QPSK	50@25	26.44	24.24	0.2655
77	15	40	631334	3470.01	DFT-s-OFDM QPSK	1@1	26.32	24.12	0.2582
77	15	40	631334	3470.01	DFT-s-OFDM QPSK	1@104	26.18	23.98	0.2500
77	15	40	631334	3470.01	DFT-s-OFDM 16 QAM	50@25	25.33	23.13	0.2056
77	15	40	631334	3470.01	DFT-s-OFDM 16 QAM	1@1	24.88	22.68	0.1854
77	15	40	631334	3470.01	DFT-s-OFDM 16 QAM	1@104	25.14	22.94	0.1968
77	15	40	631334	3470.01	DFT-s-OFDM 64 QAM	50@25	23.74	21.54	0.1426
77	15	40	631334	3470.01	DFT-s-OFDM 64 QAM	1@1	23.96	21.76	0.1500
77	15	40	631334	3470.01	DFT-s-OFDM 64 QAM	1@104	23.84	21.64	0.1459
77	15	40	631334	3470.01	DFT-s-OFDM 256 QAM	50@25	21.84	19.64	0.0920
77	15	40	631334	3470.01	DFT-s-OFDM 256 QAM	1@1	21.67	19.47	0.0885
77	15	40	631334	3470.01	DFT-s-OFDM 256 QAM	1@104	21.28	19.08	0.0809
77	15	40	631334	3470.01	CP-OFDM QPSK	53@26	24.74	22.54	0.1795
77	15	40	631334	3470.01	CP-OFDM QPSK	1@1	24.48	22.28	0.1690
77	15	40	631334	3470.01	CP-OFDM QPSK	1@104	24.71	22.51	0.1782
77	15	40	633333	3499.995	DFT-s-OFDM PI/2 BPSK	50@25	25.88	23.68	0.2333
77	15	40	633333	3499.995	DFT-s-OFDM PI/2 BPSK	1@1	25.59	23.39	0.2183
77	15	40	633333	3499.995	DFT-s-OFDM PI/2 BPSK	1@104	26.08	23.88	0.2443
77	15	40	633333	3499.995	DFT-s-OFDM QPSK	50@25	26.31	24.11	0.2576
77	15	40	633333	3499.995	DFT-s-OFDM QPSK	1@1	26.04	23.84	0.2421
77	15	40	633333	3499.995	DFT-s-OFDM QPSK	1@104	26.03	23.83	0.2415

77	15	40	633333	3499.995	DFT-s-OFDM 16 QAM	50@25	25.06	22.86	0.1932
77	15	40	633333	3499.995	DFT-s-OFDM 16 QAM	1@1	25.12	22.92	0.1959
77	15	40	633333	3499.995	DFT-s-OFDM 16 QAM	1@104	25.09	22.89	0.1945
77	15	40	633333	3499.995	DFT-s-OFDM 64 QAM	50@25	23.71	21.51	0.1416
77	15	40	633333	3499.995	DFT-s-OFDM 64 QAM	1@1	23.86	21.66	0.1466
77	15	40	633333	3499.995	DFT-s-OFDM 64 QAM	1@104	23.76	21.56	0.1432
77	15	40	633333	3499.995	DFT-s-OFDM 256 QAM	50@25	21.9	19.7	0.0933
77	15	40	633333	3499.995	DFT-s-OFDM 256 QAM	1@1	21.21	19.01	0.0796
77	15	40	633333	3499.995	DFT-s-OFDM 256 QAM	1@104	21.21	19.01	0.0796
77	15	40	633333	3499.995	CP-OFDM QPSK	53@26	24.63	22.43	0.1750
77	15	40	633333	3499.995	CP-OFDM QPSK	1@1	24.55	22.35	0.1718
77	15	40	633333	3499.995	CP-OFDM QPSK	1@104	24.54	22.34	0.1714
77	15	40	635333	3529.995	DFT-s-OFDM PI/2 BPSK	50@25	26.18	23.98	0.2500
77	15	40	635333	3529.995	DFT-s-OFDM PI/2 BPSK	1@1	26.23	24.03	0.2529
77	15	40	635333	3529.995	DFT-s-OFDM PI/2 BPSK	1@104	25.99	23.79	0.2393
77	15	40	635333	3529.995	DFT-s-OFDM QPSK	50@25	26.38	24.18	0.2618
77	15	40	635333	3529.995	DFT-s-OFDM QPSK	1@1	26.14	23.94	0.2477
77	15	40	635333	3529.995	DFT-s-OFDM QPSK	1@104	26.08	23.88	0.2443
77	15	40	635333	3529.995	DFT-s-OFDM 16 QAM	50@25	25.22	23.02	0.2004
77	15	40	635333	3529.995	DFT-s-OFDM 16 QAM	1@1	25.08	22.88	0.1941
77	15	40	635333	3529.995	DFT-s-OFDM 16 QAM	1@104	25.61	23.41	0.2193
77	15	40	635333	3529.995	DFT-s-OFDM 64 QAM	50@25	23.62	21.42	0.1387
77	15	40	635333	3529.995	DFT-s-OFDM 64 QAM	1@1	23.85	21.65	0.1462
77	15	40	635333	3529.995	DFT-s-OFDM 64 QAM	1@104	23.8	21.6	0.1445

77	15	40	635333	3529.995	DFT-s-OFDM 256 QAM	50@25	21.81	19.61	0.0914
77	15	40	635333	3529.995	DFT-s-OFDM 256 QAM	1@1	21.3	19.1	0.0813
77	15	40	635333	3529.995	DFT-s-OFDM 256 QAM	1@104	21.21	19.01	0.0796
77	15	40	635333	3529.995	CP-OFDM QPSK	53@26	24.61	22.41	0.1742
77	15	40	635333	3529.995	CP-OFDM QPSK	1@1	24.57	22.37	0.1726
77	15	40	635333	3529.995	CP-OFDM QPSK	1@104	24.6	22.4	0.1738
77	15	50	631667	3475.01	DFT-s-OFDM PI/2 BPSK	135@67	26.33	24.13	0.2588
77	15	50	631667	3475.01	DFT-s-OFDM PI/2 BPSK	1@1	26.1	23.9	0.2455
77	15	50	631667	3475.01	DFT-s-OFDM PI/2 BPSK	1@268	25.91	23.71	0.2350
77	15	50	631667	3475.01	DFT-s-OFDM QPSK	135@67	26.34	24.14	0.2594
77	15	50	631667	3475.01	DFT-s-OFDM QPSK	1@1	25.58	23.38	0.2178
77	15	50	631667	3475.01	DFT-s-OFDM QPSK	1@268	25.84	23.64	0.2312
77	15	50	631667	3475.01	DFT-s-OFDM 16 QAM	135@67	25.32	23.12	0.2051
77	15	50	631667	3475.01	DFT-s-OFDM 16 QAM	1@1	24.99	22.79	0.1901
77	15	50	631667	3475.01	DFT-s-OFDM 16 QAM	1@268	24.77	22.57	0.1807
77	15	50	631667	3475.01	DFT-s-OFDM 64 QAM	135@67	23.9	21.7	0.1479
77	15	50	631667	3475.01	DFT-s-OFDM 64 QAM	1@1	23.77	21.57	0.1435
77	15	50	631667	3475.01	DFT-s-OFDM 64 QAM	1@268	23.51	21.31	0.1352
77	15	50	631667	3475.01	DFT-s-OFDM 256 QAM	135@67	21.83	19.63	0.0918
77	15	50	631667	3475.01	DFT-s-OFDM 256 QAM	1@1	21.23	19.03	0.0800
77	15	50	631667	3475.01	DFT-s-OFDM 256 QAM	1@268	21.04	18.84	0.0766
77	15	50	631667	3475.01	CP-OFDM QPSK	135@67	23.68	21.48	0.1406
77	15	50	631667	3475.01	CP-OFDM QPSK	1@1	23.99	21.79	0.1510
77	15	50	631667	3475.01	CP-OFDM QPSK	1@268	24.24	22.04	0.1600

77	15	50	633333	3499.995	DFT-s-OFDM PI/2 BPSK	135@67	24.39	22.19	0.1656
77	15	50	633333	3499.995	DFT-s-OFDM PI/2 BPSK	1@1	25.41	23.21	0.2094
77	15	50	633333	3499.995	DFT-s-OFDM PI/2 BPSK	1@268	23.91	21.71	0.1483
77	15	50	633333	3499.995	DFT-s-OFDM QPSK	135@67	24.66	22.46	0.1762
77	15	50	633333	3499.995	DFT-s-OFDM QPSK	1@1	25.23	23.03	0.2009
77	15	50	633333	3499.995	DFT-s-OFDM QPSK	1@268	24.18	21.98	0.1578
77	15	50	633333	3499.995	DFT-s-OFDM 16 QAM	135@67	24.39	22.19	0.1656
77	15	50	633333	3499.995	DFT-s-OFDM 16 QAM	1@1	24.55	22.35	0.1718
77	15	50	633333	3499.995	DFT-s-OFDM 16 QAM	1@268	23.99	21.79	0.1510
77	15	50	633333	3499.995	DFT-s-OFDM 64 QAM	135@67	23.16	20.96	0.1247
77	15	50	633333	3499.995	DFT-s-OFDM 64 QAM	1@1	23.37	21.17	0.1309
77	15	50	633333	3499.995	DFT-s-OFDM 64 QAM	1@268	23.37	21.17	0.1309
77	15	50	633333	3499.995	DFT-s-OFDM 256 QAM	135@67	21.73	19.53	0.0897
77	15	50	633333	3499.995	DFT-s-OFDM 256 QAM	1@1	21.67	19.47	0.0885
77	15	50	633333	3499.995	DFT-s-OFDM 256 QAM	1@268	21.47	19.27	0.0845
77	15	50	633333	3499.995	CP-OFDM QPSK	135@67	24.08	21.88	0.1542
77	15	50	633333	3499.995	CP-OFDM QPSK	1@1	24.15	21.95	0.1567
77	15	50	633333	3499.995	CP-OFDM QPSK	1@268	23.84	21.64	0.1459
77	15	50	635000	3525.0	DFT-s-OFDM PI/2 BPSK	135@67	24.78	22.58	0.1811
77	15	50	635000	3525.0	DFT-s-OFDM PI/2 BPSK	1@1	24.35	22.15	0.1641
77	15	50	635000	3525.0	DFT-s-OFDM PI/2 BPSK	1@268	24.54	22.34	0.1714
77	15	50	635000	3525.0	DFT-s-OFDM QPSK	135@67	24.8	22.6	0.1820
77	15	50	635000	3525.0	DFT-s-OFDM QPSK	1@1	24.83	22.63	0.1832
77	15	50	635000	3525.0	DFT-s-OFDM QPSK	1@268	24.35	22.15	0.1641

77	15	50	635000	3525.0	DFT-s-OFDM 16 QAM	135@67	23.74	21.54	0.1426
77	15	50	635000	3525.0	DFT-s-OFDM 16 QAM	1@1	24.34	22.14	0.1637
77	15	50	635000	3525.0	DFT-s-OFDM 16 QAM	1@268	23.51	21.31	0.1352
77	15	50	635000	3525.0	DFT-s-OFDM 64 QAM	135@67	23.5	21.3	0.1349
77	15	50	635000	3525.0	DFT-s-OFDM 64 QAM	1@1	23.56	21.36	0.1368
77	15	50	635000	3525.0	DFT-s-OFDM 64 QAM	1@268	22.98	20.78	0.1197
77	15	50	635000	3525.0	DFT-s-OFDM 256 QAM	135@67	21.7	19.5	0.0891
77	15	50	635000	3525.0	DFT-s-OFDM 256 QAM	1@1	21.48	19.28	0.0847
77	15	50	635000	3525.0	DFT-s-OFDM 256 QAM	1@268	21.46	19.26	0.0843
77	15	50	635000	3525.0	CP-OFDM QPSK	135@67	23.68	21.48	0.1406
77	15	50	635000	3525.0	CP-OFDM QPSK	1@1	23.67	21.47	0.1403
77	15	50	635000	3525.0	CP-OFDM QPSK	1@268	23.26	21.06	0.1276

FR1 N77

LTE Band: 41, LTE BW: 20M, LTE ARFCN: Mid

Transmitter Conducted Output Power And ERP/EIRP, ($G_T - L_C$)=-2.2dB

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	EIRP (dBm)	EIRP (W)
77	30	10	630334	3455.01	DFT-s-OFDM PI/2 BPSK	12@6	26.07	23.87	0.2438
77	30	10	630334	3455.01	DFT-s-OFDM PI/2 BPSK	1@1	25.9	23.7	0.2344
77	30	10	630334	3455.01	DFT-s-OFDM PI/2 BPSK	1@22	25.9	23.7	0.2344
77	30	10	630334	3455.01	DFT-s-OFDM QPSK	12@6	25.98	23.78	0.2388
77	30	10	630334	3455.01	DFT-s-OFDM QPSK	1@1	25.86	23.66	0.2323
77	30	10	630334	3455.01	DFT-s-OFDM QPSK	1@22	25.8	23.6	0.2291
77	30	10	630334	3455.01	DFT-s-OFDM 16 QAM	12@6	25	22.8	0.1905
77	30	10	630334	3455.01	DFT-s-OFDM 16 QAM	1@1	24.84	22.64	0.1837
77	30	10	630334	3455.01	DFT-s-OFDM 16 QAM	1@22	25.04	22.84	0.1923
77	30	10	630334	3455.01	DFT-s-OFDM 64 QAM	12@6	23.5	21.3	0.1349
77	30	10	630334	3455.01	DFT-s-OFDM 64 QAM	1@1	23.44	21.24	0.1330
77	30	10	630334	3455.01	DFT-s-OFDM 64 QAM	1@22	23.39	21.19	0.1315
77	30	10	630334	3455.01	DFT-s-OFDM 256 QAM	12@6	21.52	19.32	0.0855
77	30	10	630334	3455.01	DFT-s-OFDM 256 QAM	1@1	21.5	19.3	0.0851
77	30	10	630334	3455.01	DFT-s-OFDM 256 QAM	1@22	21.56	19.36	0.0863
77	30	10	630334	3455.01	CP-OFDM QPSK	12@6	24.54	22.34	0.1714
77	30	10	630334	3455.01	CP-OFDM QPSK	1@1	24.47	22.27	0.1687
77	30	10	630334	3455.01	CP-OFDM QPSK	1@22	24.49	22.29	0.1694

77	30	10	633334	3500.01	DFT-s-OFDM PI/2 BPSK	12@6	25.99	23.79	0.2393
77	30	10	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	25.92	23.72	0.2355
77	30	10	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@22	25.87	23.67	0.2328
77	30	10	633334	3500.01	DFT-s-OFDM QPSK	12@6	26.05	23.85	0.2427
77	30	10	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.87	23.67	0.2328
77	30	10	633334	3500.01	DFT-s-OFDM QPSK	1@22	25.9	23.7	0.2344
77	30	10	633334	3500.01	DFT-s-OFDM 16 QAM	12@6	24.92	22.72	0.1871
77	30	10	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.82	22.62	0.1828
77	30	10	633334	3500.01	DFT-s-OFDM 16 QAM	1@22	24.97	22.77	0.1892
77	30	10	633334	3500.01	DFT-s-OFDM 64 QAM	12@6	23.46	21.26	0.1337
77	30	10	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	23.47	21.27	0.1340
77	30	10	633334	3500.01	DFT-s-OFDM 64 QAM	1@22	23.33	21.13	0.1297
77	30	10	633334	3500.01	DFT-s-OFDM 256 QAM	12@6	21.69	19.49	0.0889
77	30	10	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	21.74	19.54	0.0899
77	30	10	633334	3500.01	DFT-s-OFDM 256 QAM	1@22	21.59	19.39	0.0869
77	30	10	633334	3500.01	CP-OFDM QPSK	12@6	24.55	22.35	0.1718
77	30	10	633334	3500.01	CP-OFDM QPSK	1@1	24.45	22.25	0.1679
77	30	10	633334	3500.01	CP-OFDM QPSK	1@22	24.5	22.3	0.1698
77	30	10	636332	3544.98	DFT-s-OFDM PI/2 BPSK	12@6	25.96	23.76	0.2377
77	30	10	636332	3544.98	DFT-s-OFDM PI/2 BPSK	1@1	25.91	23.71	0.2350
77	30	10	636332	3544.98	DFT-s-OFDM PI/2 BPSK	1@22	25.83	23.63	0.2307
77	30	10	636332	3544.98	DFT-s-OFDM QPSK	12@6	25.95	23.75	0.2371
77	30	10	636332	3544.98	DFT-s-OFDM QPSK	1@1	25.85	23.65	0.2317
77	30	10	636332	3544.98	DFT-s-OFDM QPSK	1@22	25.78	23.58	0.2280

77	30	10	636332	3544.98	DFT-s-OFDM 16 QAM	12@6	24.93	22.73	0.1875
77	30	10	636332	3544.98	DFT-s-OFDM 16 QAM	1@1	24.63	22.43	0.1750
77	30	10	636332	3544.98	DFT-s-OFDM 16 QAM	1@22	24.94	22.74	0.1879
77	30	10	636332	3544.98	DFT-s-OFDM 64 QAM	12@6	23.44	21.24	0.1330
77	30	10	636332	3544.98	DFT-s-OFDM 64 QAM	1@1	23.34	21.14	0.1300
77	30	10	636332	3544.98	DFT-s-OFDM 64 QAM	1@22	23.18	20.98	0.1253
77	30	10	636332	3544.98	DFT-s-OFDM 256 QAM	12@6	21.49	19.29	0.0849
77	30	10	636332	3544.98	DFT-s-OFDM 256 QAM	1@1	21.65	19.45	0.0881
77	30	10	636332	3544.98	DFT-s-OFDM 256 QAM	1@22	21.65	19.45	0.0881
77	30	10	636332	3544.98	CP-OFDM QPSK	12@6	24.36	22.16	0.1644
77	30	10	636332	3544.98	CP-OFDM QPSK	1@1	24.33	22.13	0.1633
77	30	10	636332	3544.98	CP-OFDM QPSK	1@22	24.47	22.27	0.1687
77	30	15	630500	3457.5	DFT-s-OFDM PI/2 BPSK	18@9	26.15	23.95	0.2483
77	30	15	630500	3457.5	DFT-s-OFDM PI/2 BPSK	1@1	25.96	23.76	0.2377
77	30	15	630500	3457.5	DFT-s-OFDM PI/2 BPSK	1@36	25.96	23.76	0.2377
77	30	15	630500	3457.5	DFT-s-OFDM QPSK	18@9	26.2	24	0.2512
77	30	15	630500	3457.5	DFT-s-OFDM QPSK	1@1	25.95	23.75	0.2371
77	30	15	630500	3457.5	DFT-s-OFDM QPSK	1@36	25.96	23.76	0.2377
77	30	15	630500	3457.5	DFT-s-OFDM 16 QAM	18@9	25.04	22.84	0.1923
77	30	15	630500	3457.5	DFT-s-OFDM 16 QAM	1@1	24.77	22.57	0.1807
77	30	15	630500	3457.5	DFT-s-OFDM 16 QAM	1@36	25.04	22.84	0.1923
77	30	15	630500	3457.5	DFT-s-OFDM 64 QAM	18@9	23.5	21.3	0.1349
77	30	15	630500	3457.5	DFT-s-OFDM 64 QAM	1@1	23.45	21.25	0.1334
77	30	15	630500	3457.5	DFT-s-OFDM 64 QAM	1@36	23.44	21.24	0.1330

77	30	15	630500	3457.5	DFT-s-OFDM 256 QAM	18@9	21.66	19.46	0.0883
77	30	15	630500	3457.5	DFT-s-OFDM 256 QAM	1@1	21.74	19.54	0.0899
77	30	15	630500	3457.5	DFT-s-OFDM 256 QAM	1@36	21.73	19.53	0.0897
77	30	15	630500	3457.5	CP-OFDM QPSK	19@9	24.52	22.32	0.1706
77	30	15	630500	3457.5	CP-OFDM QPSK	1@1	24.41	22.21	0.1663
77	30	15	630500	3457.5	CP-OFDM QPSK	1@36	24.48	22.28	0.1690
77	30	15	633334	3500.01	DFT-s-OFDM PI/2 BPSK	18@9	26.03	23.83	0.2415
77	30	15	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	25.91	23.71	0.2350
77	30	15	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@36	25.81	23.61	0.2296
77	30	15	633334	3500.01	DFT-s-OFDM QPSK	18@9	25.97	23.77	0.2382
77	30	15	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.89	23.69	0.2339
77	30	15	633334	3500.01	DFT-s-OFDM QPSK	1@36	25.84	23.64	0.2312
77	30	15	633334	3500.01	DFT-s-OFDM 16 QAM	18@9	25.06	22.86	0.1932
77	30	15	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.8	22.6	0.1820
77	30	15	633334	3500.01	DFT-s-OFDM 16 QAM	1@36	24.57	22.37	0.1726
77	30	15	633334	3500.01	DFT-s-OFDM 64 QAM	18@9	23.51	21.31	0.1352
77	30	15	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	23.41	21.21	0.1321
77	30	15	633334	3500.01	DFT-s-OFDM 64 QAM	1@36	23.11	20.91	0.1233
77	30	15	633334	3500.01	DFT-s-OFDM 256 QAM	18@9	21.69	19.49	0.0889
77	30	15	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	21.53	19.33	0.0857
77	30	15	633334	3500.01	DFT-s-OFDM 256 QAM	1@36	21.56	19.36	0.0863
77	30	15	633334	3500.01	CP-OFDM QPSK	19@9	24.58	22.38	0.1730
77	30	15	633334	3500.01	CP-OFDM QPSK	1@1	24.45	22.25	0.1679
77	30	15	633334	3500.01	CP-OFDM QPSK	1@36	24.4	22.2	0.1660

77	30	15	636166	3542.49	DFT-s-OFDM PI/2 BPSK	18@9	25.97	23.77	0.2382
77	30	15	636166	3542.49	DFT-s-OFDM PI/2 BPSK	1@1	25.87	23.67	0.2328
77	30	15	636166	3542.49	DFT-s-OFDM PI/2 BPSK	1@36	25.81	23.61	0.2296
77	30	15	636166	3542.49	DFT-s-OFDM QPSK	18@9	26	23.8	0.2399
77	30	15	636166	3542.49	DFT-s-OFDM QPSK	1@1	25.88	23.68	0.2333
77	30	15	636166	3542.49	DFT-s-OFDM QPSK	1@36	25.83	23.63	0.2307
77	30	15	636166	3542.49	DFT-s-OFDM 16 QAM	18@9	24.9	22.7	0.1862
77	30	15	636166	3542.49	DFT-s-OFDM 16 QAM	1@1	24.73	22.53	0.1791
77	30	15	636166	3542.49	DFT-s-OFDM 16 QAM	1@36	24.91	22.71	0.1866
77	30	15	636166	3542.49	DFT-s-OFDM 64 QAM	18@9	23.68	21.48	0.1406
77	30	15	636166	3542.49	DFT-s-OFDM 64 QAM	1@1	23.27	21.07	0.1279
77	30	15	636166	3542.49	DFT-s-OFDM 64 QAM	1@36	23.18	20.98	0.1253
77	30	15	636166	3542.49	DFT-s-OFDM 256 QAM	18@9	21.63	19.43	0.0877
77	30	15	636166	3542.49	DFT-s-OFDM 256 QAM	1@1	21.61	19.41	0.0873
77	30	15	636166	3542.49	DFT-s-OFDM 256 QAM	1@36	21.56	19.36	0.0863
77	30	15	636166	3542.49	CP-OFDM QPSK	19@9	24.49	22.29	0.1694
77	30	15	636166	3542.49	CP-OFDM QPSK	1@1	24.42	22.22	0.1667
77	30	15	636166	3542.49	CP-OFDM QPSK	1@36	24.35	22.15	0.1641
77	30	20	630668	3460.02	DFT-s-OFDM PI/2 BPSK	25@12	26.27	24.07	0.2553
77	30	20	630668	3460.02	DFT-s-OFDM PI/2 BPSK	1@1	25.88	23.68	0.2333
77	30	20	630668	3460.02	DFT-s-OFDM PI/2 BPSK	1@49	25.87	23.67	0.2328
77	30	20	630668	3460.02	DFT-s-OFDM QPSK	25@12	26.22	24.02	0.2523
77	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@1	25.97	23.77	0.2382
77	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@49	25.95	23.75	0.2371

77	30	20	630668	3460.02	DFT-s-OFDM 16 QAM	25@12	25.24	23.04	0.2014
77	30	20	630668	3460.02	DFT-s-OFDM 16 QAM	1@1	25.01	22.81	0.1910
77	30	20	630668	3460.02	DFT-s-OFDM 16 QAM	1@49	24.96	22.76	0.1888
77	30	20	630668	3460.02	DFT-s-OFDM 64 QAM	25@12	23.74	21.54	0.1426
77	30	20	630668	3460.02	DFT-s-OFDM 64 QAM	1@1	23.41	21.21	0.1321
77	30	20	630668	3460.02	DFT-s-OFDM 64 QAM	1@49	23.39	21.19	0.1315
77	30	20	630668	3460.02	DFT-s-OFDM 256 QAM	25@12	21.96	19.76	0.0946
77	30	20	630668	3460.02	DFT-s-OFDM 256 QAM	1@1	21.71	19.51	0.0893
77	30	20	630668	3460.02	DFT-s-OFDM 256 QAM	1@49	21.67	19.47	0.0885
77	30	20	630668	3460.02	CP-OFDM QPSK	25@121	23.16	20.96	0.1247
77	30	20	630668	3460.02	CP-OFDM QPSK	1@1	24.48	22.28	0.1690
77	30	20	630668	3460.02	CP-OFDM QPSK	1@49	24.42	22.22	0.1667
77	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	25@12	26.06	23.86	0.2432
77	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	25.81	23.61	0.2296
77	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@49	25.73	23.53	0.2254
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	25@12	26	23.8	0.2399
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@1	26	23.8	0.2399
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@49	25.76	23.56	0.2270
77	30	20	633334	3500.01	DFT-s-OFDM 16 QAM	25@12	25.1	22.9	0.1950
77	30	20	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	25.01	22.81	0.1910
77	30	20	633334	3500.01	DFT-s-OFDM 16 QAM	1@49	24.79	22.59	0.1816
77	30	20	633334	3500.01	DFT-s-OFDM 64 QAM	25@12	23.63	21.43	0.1390
77	30	20	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	23.23	21.03	0.1268
77	30	20	633334	3500.01	DFT-s-OFDM 64 QAM	1@49	23.26	21.06	0.1276

77	30	20	633334	3500.01	DFT-s-OFDM 256 QAM	25@12	21.66	19.46	0.0883
77	30	20	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	21.31	19.11	0.0815
77	30	20	633334	3500.01	DFT-s-OFDM 256 QAM	1@49	21.35	19.15	0.0822
77	30	20	633334	3500.01	CP-OFDM QPSK	25@121	23.03	20.83	0.1211
77	30	20	633334	3500.01	CP-OFDM QPSK	1@1	24.56	22.36	0.1722
77	30	20	633334	3500.01	CP-OFDM QPSK	1@49	24.3	22.1	0.1622
77	30	20	636000	3540.0	DFT-s-OFDM PI/2 BPSK	25@12	26.1	23.9	0.2455
77	30	20	636000	3540.0	DFT-s-OFDM PI/2 BPSK	1@1	25.75	23.55	0.2265
77	30	20	636000	3540.0	DFT-s-OFDM PI/2 BPSK	1@49	25.75	23.55	0.2265
77	30	20	636000	3540.0	DFT-s-OFDM QPSK	25@12	26.01	23.81	0.2404
77	30	20	636000	3540.0	DFT-s-OFDM QPSK	1@1	25.82	23.62	0.2301
77	30	20	636000	3540.0	DFT-s-OFDM QPSK	1@49	25.72	23.52	0.2249
77	30	20	636000	3540.0	DFT-s-OFDM 16 QAM	25@12	24.98	22.78	0.1897
77	30	20	636000	3540.0	DFT-s-OFDM 16 QAM	1@1	24.55	22.35	0.1718
77	30	20	636000	3540.0	DFT-s-OFDM 16 QAM	1@49	24.72	22.52	0.1786
77	30	20	636000	3540.0	DFT-s-OFDM 64 QAM	25@12	23.63	21.43	0.1390
77	30	20	636000	3540.0	DFT-s-OFDM 64 QAM	1@1	23.16	20.96	0.1247
77	30	20	636000	3540.0	DFT-s-OFDM 64 QAM	1@49	22.95	20.75	0.1189
77	30	20	636000	3540.0	DFT-s-OFDM 256 QAM	25@12	21.65	19.45	0.0881
77	30	20	636000	3540.0	DFT-s-OFDM 256 QAM	1@1	21.36	19.16	0.0824
77	30	20	636000	3540.0	DFT-s-OFDM 256 QAM	1@49	21.54	19.34	0.0859
77	30	20	636000	3540.0	CP-OFDM QPSK	25@121	22.82	20.62	0.1153
77	30	20	636000	3540.0	CP-OFDM QPSK	1@1	24.43	22.23	0.1671
77	30	20	636000	3540.0	CP-OFDM QPSK	1@49	24.23	22.03	0.1596

77	30	40	631334	3470.01	DFT-s-OFDM PI/2 BPSK	50@25	26.21	24.01	0.2518
77	30	40	631334	3470.01	DFT-s-OFDM PI/2 BPSK	1@1	25.7	23.5	0.2239
77	30	40	631334	3470.01	DFT-s-OFDM PI/2 BPSK	1@104	25.51	23.31	0.2143
77	30	40	631334	3470.01	DFT-s-OFDM QPSK	50@25	26.17	23.97	0.2495
77	30	40	631334	3470.01	DFT-s-OFDM QPSK	1@1	25.71	23.51	0.2244
77	30	40	631334	3470.01	DFT-s-OFDM QPSK	1@104	25.56	23.36	0.2168
77	30	40	631334	3470.01	DFT-s-OFDM 16 QAM	50@25	25.27	23.07	0.2028
77	30	40	631334	3470.01	DFT-s-OFDM 16 QAM	1@1	24.42	22.22	0.1667
77	30	40	631334	3470.01	DFT-s-OFDM 16 QAM	1@104	24.24	22.04	0.1600
77	30	40	631334	3470.01	DFT-s-OFDM 64 QAM	50@25	23.52	21.32	0.1355
77	30	40	631334	3470.01	DFT-s-OFDM 64 QAM	1@1	23.22	21.02	0.1265
77	30	40	631334	3470.01	DFT-s-OFDM 64 QAM	1@104	22.75	20.55	0.1135
77	30	40	631334	3470.01	DFT-s-OFDM 256 QAM	50@25	21.85	19.65	0.0923
77	30	40	631334	3470.01	DFT-s-OFDM 256 QAM	1@1	21.4	19.2	0.0832
77	30	40	631334	3470.01	DFT-s-OFDM 256 QAM	1@104	21.24	19.04	0.0802
77	30	40	631334	3470.01	CP-OFDM QPSK	53@26	24.68	22.48	0.1770
77	30	40	631334	3470.01	CP-OFDM QPSK	1@1	24.35	22.15	0.1641
77	30	40	631334	3470.01	CP-OFDM QPSK	1@104	24.15	21.95	0.1567
77	30	40	633334	3500.01	DFT-s-OFDM PI/2 BPSK	50@25	25.96	23.76	0.2377
77	30	40	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	25.67	23.47	0.2223
77	30	40	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@104	25.49	23.29	0.2133
77	30	40	633334	3500.01	DFT-s-OFDM QPSK	50@25	25.99	23.79	0.2393
77	30	40	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.66	23.46	0.2218
77	30	40	633334	3500.01	DFT-s-OFDM QPSK	1@104	25.52	23.32	0.2148

77	30	40	633334	3500.01	DFT-s-OFDM 16 QAM	50@25	24.94	22.74	0.1879
77	30	40	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.76	22.56	0.1803
77	30	40	633334	3500.01	DFT-s-OFDM 16 QAM	1@104	24.63	22.43	0.1750
77	30	40	633334	3500.01	DFT-s-OFDM 64 QAM	50@25	23.4	21.2	0.1318
77	30	40	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	23.16	20.96	0.1247
77	30	40	633334	3500.01	DFT-s-OFDM 64 QAM	1@104	22.97	20.77	0.1194
77	30	40	633334	3500.01	DFT-s-OFDM 256 QAM	50@25	21.79	19.59	0.0910
77	30	40	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	21.44	19.24	0.0839
77	30	40	633334	3500.01	DFT-s-OFDM 256 QAM	1@104	21.15	18.95	0.0785
77	30	40	633334	3500.01	CP-OFDM QPSK	53@26	24.52	22.32	0.1706
77	30	40	633334	3500.01	CP-OFDM QPSK	1@1	24.3	22.1	0.1622
77	30	40	633334	3500.01	CP-OFDM QPSK	1@104	24.25	22.05	0.1603
77	30	40	635332	3529.98	DFT-s-OFDM PI/2 BPSK	50@25	26.01	23.81	0.2404
77	30	40	635332	3529.98	DFT-s-OFDM PI/2 BPSK	1@1	25.59	23.39	0.2183
77	30	40	635332	3529.98	DFT-s-OFDM PI/2 BPSK	1@104	25.53	23.33	0.2153
77	30	40	635332	3529.98	DFT-s-OFDM QPSK	50@25	26.09	23.89	0.2449
77	30	40	635332	3529.98	DFT-s-OFDM QPSK	1@1	25.66	23.46	0.2218
77	30	40	635332	3529.98	DFT-s-OFDM QPSK	1@104	25.58	23.38	0.2178
77	30	40	635332	3529.98	DFT-s-OFDM 16 QAM	50@25	25.08	22.88	0.1941
77	30	40	635332	3529.98	DFT-s-OFDM 16 QAM	1@1	24.39	22.19	0.1656
77	30	40	635332	3529.98	DFT-s-OFDM 16 QAM	1@104	24.25	22.05	0.1603
77	30	40	635332	3529.98	DFT-s-OFDM 64 QAM	50@25	23.58	21.38	0.1374
77	30	40	635332	3529.98	DFT-s-OFDM 64 QAM	1@1	23.06	20.86	0.1219
77	30	40	635332	3529.98	DFT-s-OFDM 64 QAM	1@104	23.02	20.82	0.1208

77	30	40	635332	3529.98	DFT-s-OFDM 256 QAM	50@25	21.74	19.54	0.0899
77	30	40	635332	3529.98	DFT-s-OFDM 256 QAM	1@1	21.39	19.19	0.0830
77	30	40	635332	3529.98	DFT-s-OFDM 256 QAM	1@104	21.26	19.06	0.0805
77	30	40	635332	3529.98	CP-OFDM QPSK	53@26	24.57	22.37	0.1726
77	30	40	635332	3529.98	CP-OFDM QPSK	1@1	24.06	21.86	0.1535
77	30	40	635332	3529.98	CP-OFDM QPSK	1@104	24.18	21.98	0.1578
77	30	50	631668	3475.02	DFT-s-OFDM PI/2 BPSK	64@32	26.19	23.99	0.2506
77	30	50	631668	3475.02	DFT-s-OFDM PI/2 BPSK	1@1	25.91	23.71	0.2350
77	30	50	631668	3475.02	DFT-s-OFDM PI/2 BPSK	1@131	25.68	23.48	0.2228
77	30	50	631668	3475.02	DFT-s-OFDM QPSK	64@32	26.24	24.04	0.2535
77	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@1	25.89	23.69	0.2339
77	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@131	25.64	23.44	0.2208
77	30	50	631668	3475.02	DFT-s-OFDM 16 QAM	64@32	25.17	22.97	0.1982
77	30	50	631668	3475.02	DFT-s-OFDM 16 QAM	1@1	24.89	22.69	0.1858
77	30	50	631668	3475.02	DFT-s-OFDM 16 QAM	1@131	24.51	22.31	0.1702
77	30	50	631668	3475.02	DFT-s-OFDM 64 QAM	64@32	23.61	21.41	0.1384
77	30	50	631668	3475.02	DFT-s-OFDM 64 QAM	1@1	23.33	21.13	0.1297
77	30	50	631668	3475.02	DFT-s-OFDM 64 QAM	1@131	23.22	21.02	0.1265
77	30	50	631668	3475.02	DFT-s-OFDM 256 QAM	64@32	21.83	19.63	0.0918
77	30	50	631668	3475.02	DFT-s-OFDM 256 QAM	1@1	21.67	19.47	0.0885
77	30	50	631668	3475.02	DFT-s-OFDM 256 QAM	1@131	21.42	19.22	0.0836
77	30	50	631668	3475.02	CP-OFDM QPSK	67@33	24.67	22.47	0.1766
77	30	50	631668	3475.02	CP-OFDM QPSK	1@1	24.5	22.3	0.1698
77	30	50	631668	3475.02	CP-OFDM QPSK	1@131	24.27	22.07	0.1611

77	30	50	633334	3500.01	DFT-s-OFDM PI/2 BPSK	64@32	26.12	23.92	0.2466
77	30	50	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	25.91	23.71	0.2350
77	30	50	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@131	25.82	23.62	0.2301
77	30	50	633334	3500.01	DFT-s-OFDM QPSK	64@32	26.14	23.94	0.2477
77	30	50	633334	3500.01	DFT-s-OFDM QPSK	1@1	26.01	23.81	0.2404
77	30	50	633334	3500.01	DFT-s-OFDM QPSK	1@131	25.74	23.54	0.2259
77	30	50	633334	3500.01	DFT-s-OFDM 16 QAM	64@32	25.03	22.83	0.1919
77	30	50	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.93	22.73	0.1875
77	30	50	633334	3500.01	DFT-s-OFDM 16 QAM	1@131	24.77	22.57	0.1807
77	30	50	633334	3500.01	DFT-s-OFDM 64 QAM	64@32	23.71	21.51	0.1416
77	30	50	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	23.38	21.18	0.1312
77	30	50	633334	3500.01	DFT-s-OFDM 64 QAM	1@131	23.26	21.06	0.1276
77	30	50	633334	3500.01	DFT-s-OFDM 256 QAM	64@32	21.73	19.53	0.0897
77	30	50	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	21.82	19.62	0.0916
77	30	50	633334	3500.01	DFT-s-OFDM 256 QAM	1@131	21.51	19.31	0.0853
77	30	50	633334	3500.01	CP-OFDM QPSK	67@33	24.61	22.41	0.1742
77	30	50	633334	3500.01	CP-OFDM QPSK	1@1	24.54	22.34	0.1714
77	30	50	633334	3500.01	CP-OFDM QPSK	1@131	24.54	22.34	0.1714
77	30	50	635000	3525.0	DFT-s-OFDM PI/2 BPSK	64@32	26.12	23.92	0.2466
77	30	50	635000	3525.0	DFT-s-OFDM PI/2 BPSK	1@1	25.65	23.45	0.2213
77	30	50	635000	3525.0	DFT-s-OFDM PI/2 BPSK	1@131	25.71	23.51	0.2244
77	30	50	635000	3525.0	DFT-s-OFDM QPSK	64@32	26.05	23.85	0.2427
77	30	50	635000	3525.0	DFT-s-OFDM QPSK	1@1	25.8	23.6	0.2291
77	30	50	635000	3525.0	DFT-s-OFDM QPSK	1@131	25.79	23.59	0.2286

77	30	50	635000	3525.0	DFT-s-OFDM 16 QAM	64@32	25.09	22.89	0.1945
77	30	50	635000	3525.0	DFT-s-OFDM 16 QAM	1@1	24.61	22.41	0.1742
77	30	50	635000	3525.0	DFT-s-OFDM 16 QAM	1@131	24.49	22.29	0.1694
77	30	50	635000	3525.0	DFT-s-OFDM 64 QAM	64@32	23.64	21.44	0.1393
77	30	50	635000	3525.0	DFT-s-OFDM 64 QAM	1@1	23.11	20.91	0.1233
77	30	50	635000	3525.0	DFT-s-OFDM 64 QAM	1@131	23.05	20.85	0.1216
77	30	50	635000	3525.0	DFT-s-OFDM 256 QAM	64@32	21.78	19.58	0.0908
77	30	50	635000	3525.0	DFT-s-OFDM 256 QAM	1@1	21.51	19.31	0.0853
77	30	50	635000	3525.0	DFT-s-OFDM 256 QAM	1@131	21.53	19.33	0.0857
77	30	50	635000	3525.0	CP-OFDM QPSK	67@33	24.45	22.25	0.1679
77	30	50	635000	3525.0	CP-OFDM QPSK	1@1	24.37	22.17	0.1648
77	30	50	635000	3525.0	CP-OFDM QPSK	1@131	24.34	22.14	0.1637
77	30	60	632000	3480.0	DFT-s-OFDM PI/2 BPSK	81@40	26.2	24	0.2512
77	30	60	632000	3480.0	DFT-s-OFDM PI/2 BPSK	1@1	25.83	23.63	0.2307
77	30	60	632000	3480.0	DFT-s-OFDM PI/2 BPSK	1@160	25.52	23.32	0.2148
77	30	60	632000	3480.0	DFT-s-OFDM QPSK	81@40	26.17	23.97	0.2495
77	30	60	632000	3480.0	DFT-s-OFDM QPSK	1@1	25.79	23.59	0.2286
77	30	60	632000	3480.0	DFT-s-OFDM QPSK	1@160	25.49	23.29	0.2133
77	30	60	632000	3480.0	DFT-s-OFDM 16 QAM	81@40	25.2	23	0.1995
77	30	60	632000	3480.0	DFT-s-OFDM 16 QAM	1@1	24.76	22.56	0.1803
77	30	60	632000	3480.0	DFT-s-OFDM 16 QAM	1@160	24.34	22.14	0.1637
77	30	60	632000	3480.0	DFT-s-OFDM 64 QAM	81@40	23.63	21.43	0.1390
77	30	60	632000	3480.0	DFT-s-OFDM 64 QAM	1@1	23.1	20.9	0.1230
77	30	60	632000	3480.0	DFT-s-OFDM 64 QAM	1@160	22.9	20.7	0.1175

77	30	60	632000	3480.0	DFT-s-OFDM 256 QAM	81@40	21.83	19.63	0.0918
77	30	60	632000	3480.0	DFT-s-OFDM 256 QAM	1@1	21.57	19.37	0.0865
77	30	60	632000	3480.0	DFT-s-OFDM 256 QAM	1@160	21.3	19.1	0.0813
77	30	60	632000	3480.0	CP-OFDM QPSK	81@40	24.65	22.45	0.1758
77	30	60	632000	3480.0	CP-OFDM QPSK	1@1	24.41	22.21	0.1663
77	30	60	632000	3480.0	CP-OFDM QPSK	1@160	24.21	22.01	0.1589
77	30	60	633334	3500.01	DFT-s-OFDM PI/2 BPSK	81@40	26.16	23.96	0.2489
77	30	60	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	25.77	23.57	0.2275
77	30	60	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@160	25.55	23.35	0.2163
77	30	60	633334	3500.01	DFT-s-OFDM QPSK	81@40	26.07	23.87	0.2438
77	30	60	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.91	23.71	0.2350
77	30	60	633334	3500.01	DFT-s-OFDM QPSK	1@160	25.51	23.31	0.2143
77	30	60	633334	3500.01	DFT-s-OFDM 16 QAM	81@40	25.14	22.94	0.1968
77	30	60	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.93	22.73	0.1875
77	30	60	633334	3500.01	DFT-s-OFDM 16 QAM	1@160	24.31	22.11	0.1626
77	30	60	633334	3500.01	DFT-s-OFDM 64 QAM	81@40	23.56	21.36	0.1368
77	30	60	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	23.37	21.17	0.1309
77	30	60	633334	3500.01	DFT-s-OFDM 64 QAM	1@160	23.08	20.88	0.1225
77	30	60	633334	3500.01	DFT-s-OFDM 256 QAM	81@40	21.71	19.51	0.0893
77	30	60	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	21.65	19.45	0.0881
77	30	60	633334	3500.01	DFT-s-OFDM 256 QAM	1@160	21.34	19.14	0.0820
77	30	60	633334	3500.01	CP-OFDM QPSK	81@40	24.59	22.39	0.1734
77	30	60	633334	3500.01	CP-OFDM QPSK	1@1	24.49	22.29	0.1694
77	30	60	633334	3500.01	CP-OFDM QPSK	1@160	24.17	21.97	0.1574

77	30	60	634666	3519.99	DFT-s-OFDM PI/2 BPSK	81@40	26.01	23.81	0.2404
77	30	60	634666	3519.99	DFT-s-OFDM PI/2 BPSK	1@1	25.6	23.4	0.2188
77	30	60	634666	3519.99	DFT-s-OFDM PI/2 BPSK	1@160	25.39	23.19	0.2084
77	30	60	634666	3519.99	DFT-s-OFDM QPSK	81@40	26.1	23.9	0.2455
77	30	60	634666	3519.99	DFT-s-OFDM QPSK	1@1	25.72	23.52	0.2249
77	30	60	634666	3519.99	DFT-s-OFDM QPSK	1@160	25.52	23.32	0.2148
77	30	60	634666	3519.99	DFT-s-OFDM 16 QAM	81@40	25.03	22.83	0.1919
77	30	60	634666	3519.99	DFT-s-OFDM 16 QAM	1@1	24.56	22.36	0.1722
77	30	60	634666	3519.99	DFT-s-OFDM 16 QAM	1@160	24.48	22.28	0.1690
77	30	60	634666	3519.99	DFT-s-OFDM 64 QAM	81@40	23.52	21.32	0.1355
77	30	60	634666	3519.99	DFT-s-OFDM 64 QAM	1@1	23.12	20.92	0.1236
77	30	60	634666	3519.99	DFT-s-OFDM 64 QAM	1@160	22.98	20.78	0.1197
77	30	60	634666	3519.99	DFT-s-OFDM 256 QAM	81@40	21.57	19.37	0.0865
77	30	60	634666	3519.99	DFT-s-OFDM 256 QAM	1@1	21.46	19.26	0.0843
77	30	60	634666	3519.99	DFT-s-OFDM 256 QAM	1@160	21.12	18.92	0.0780
77	30	60	634666	3519.99	CP-OFDM QPSK	81@40	24.54	22.34	0.1714
77	30	60	634666	3519.99	CP-OFDM QPSK	1@1	24.27	22.07	0.1611
77	30	60	634666	3519.99	CP-OFDM QPSK	1@160	24.25	22.05	0.1603
77	30	80	632668	3490.02	DFT-s-OFDM PI/2 BPSK	108@54	26.26	24.06	0.2547
77	30	80	632668	3490.02	DFT-s-OFDM PI/2 BPSK	1@1	25.7	23.5	0.2239
77	30	80	632668	3490.02	DFT-s-OFDM PI/2 BPSK	1@215	25.44	23.24	0.2109
77	30	80	632668	3490.02	DFT-s-OFDM QPSK	108@54	26.35	24.15	0.2600
77	30	80	632668	3490.02	DFT-s-OFDM QPSK	1@1	25.78	23.58	0.2280
77	30	80	632668	3490.02	DFT-s-OFDM QPSK	1@215	25.49	23.29	0.2133

77	30	80	632668	3490.02	DFT-s-OFDM 16 QAM	108@54	25.33	23.13	0.2056
77	30	80	632668	3490.02	DFT-s-OFDM 16 QAM	1@1	24.41	22.21	0.1663
77	30	80	632668	3490.02	DFT-s-OFDM 16 QAM	1@215	24.39	22.19	0.1656
77	30	80	632668	3490.02	DFT-s-OFDM 64 QAM	108@54	23.76	21.56	0.1432
77	30	80	632668	3490.02	DFT-s-OFDM 64 QAM	1@1	23.11	20.91	0.1233
77	30	80	632668	3490.02	DFT-s-OFDM 64 QAM	1@215	22.92	20.72	0.1180
77	30	80	632668	3490.02	DFT-s-OFDM 256 QAM	108@54	21.9	19.7	0.0933
77	30	80	632668	3490.02	DFT-s-OFDM 256 QAM	1@1	21.53	19.33	0.0857
77	30	80	632668	3490.02	DFT-s-OFDM 256 QAM	1@215	21.36	19.16	0.0824
77	30	80	632668	3490.02	CP-OFDM QPSK	109@54	24.75	22.55	0.1799
77	30	80	632668	3490.02	CP-OFDM QPSK	1@1	24.24	22.04	0.1600
77	30	80	632668	3490.02	CP-OFDM QPSK	1@215	24.03	21.83	0.1524
77	30	80	633334	3500.01	DFT-s-OFDM PI/2 BPSK	108@54	26.2	24	0.2512
77	30	80	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	25.81	23.61	0.2296
77	30	80	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@215	25.5	23.3	0.2138
77	30	80	633334	3500.01	DFT-s-OFDM QPSK	108@54	26.21	24.01	0.2518
77	30	80	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.75	23.55	0.2265
77	30	80	633334	3500.01	DFT-s-OFDM QPSK	1@215	25.54	23.34	0.2158
77	30	80	633334	3500.01	DFT-s-OFDM 16 QAM	108@54	25.24	23.04	0.2014
77	30	80	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.74	22.54	0.1795
77	30	80	633334	3500.01	DFT-s-OFDM 16 QAM	1@215	24.44	22.24	0.1675
77	30	80	633334	3500.01	DFT-s-OFDM 64 QAM	108@54	23.73	21.53	0.1422
77	30	80	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	23.05	20.85	0.1216
77	30	80	633334	3500.01	DFT-s-OFDM 64 QAM	1@215	22.96	20.76	0.1191

77	30	80	633334	3500.01	DFT-s-OFDM 256 QAM	108@54	21.87	19.67	0.0927
77	30	80	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	21.64	19.44	0.0879
77	30	80	633334	3500.01	DFT-s-OFDM 256 QAM	1@215	21.39	19.19	0.0830
77	30	80	633334	3500.01	CP-OFDM QPSK	109@54	24.74	22.54	0.1795
77	30	80	633334	3500.01	CP-OFDM QPSK	1@1	24.32	22.12	0.1629
77	30	80	633334	3500.01	CP-OFDM QPSK	1@215	24.02	21.82	0.1521
77	30	80	634000	3510.0	DFT-s-OFDM PI/2 BPSK	108@54	26.24	24.04	0.2535
77	30	80	634000	3510.0	DFT-s-OFDM PI/2 BPSK	1@1	25.79	23.59	0.2286
77	30	80	634000	3510.0	DFT-s-OFDM PI/2 BPSK	1@215	25.4	23.2	0.2089
77	30	80	634000	3510.0	DFT-s-OFDM QPSK	108@54	26.27	24.07	0.2553
77	30	80	634000	3510.0	DFT-s-OFDM QPSK	1@1	25.8	23.6	0.2291
77	30	80	634000	3510.0	DFT-s-OFDM QPSK	1@215	25.49	23.29	0.2133
77	30	80	634000	3510.0	DFT-s-OFDM 16 QAM	108@54	25.16	22.96	0.1977
77	30	80	634000	3510.0	DFT-s-OFDM 16 QAM	1@1	24.97	22.77	0.1892
77	30	80	634000	3510.0	DFT-s-OFDM 16 QAM	1@215	24.4	22.2	0.1660
77	30	80	634000	3510.0	DFT-s-OFDM 64 QAM	108@54	23.65	21.45	0.1396
77	30	80	634000	3510.0	DFT-s-OFDM 64 QAM	1@1	23.21	21.01	0.1262
77	30	80	634000	3510.0	DFT-s-OFDM 64 QAM	1@215	22.95	20.75	0.1189
77	30	80	634000	3510.0	DFT-s-OFDM 256 QAM	108@54	21.87	19.67	0.0927
77	30	80	634000	3510.0	DFT-s-OFDM 256 QAM	1@1	21.67	19.47	0.0885
77	30	80	634000	3510.0	DFT-s-OFDM 256 QAM	1@215	21.34	19.14	0.0820
77	30	80	634000	3510.0	CP-OFDM QPSK	109@54	24.76	22.56	0.1803
77	30	80	634000	3510.0	CP-OFDM QPSK	1@1	24.35	22.15	0.1641
77	30	80	634000	3510.0	CP-OFDM QPSK	1@215	24.03	21.83	0.1524

77	30	90	633000	3495.0	DFT-s-OFDM PI/2 BPSK	120@60	26.25	24.05	0.2541
77	30	90	633000	3495.0	DFT-s-OFDM PI/2 BPSK	1@1	25.51	23.31	0.2143
77	30	90	633000	3495.0	DFT-s-OFDM PI/2 BPSK	1@243	25.32	23.12	0.2051
77	30	90	633000	3495.0	DFT-s-OFDM QPSK	120@60	26.24	24.04	0.2535
77	30	90	633000	3495.0	DFT-s-OFDM QPSK	1@1	25.58	23.38	0.2178
77	30	90	633000	3495.0	DFT-s-OFDM QPSK	1@243	25.4	23.2	0.2089
77	30	90	633000	3495.0	DFT-s-OFDM 16 QAM	120@60	25.29	23.09	0.2037
77	30	90	633000	3495.0	DFT-s-OFDM 16 QAM	1@1	24.37	22.17	0.1648
77	30	90	633000	3495.0	DFT-s-OFDM 16 QAM	1@243	24.1	21.9	0.1549
77	30	90	633000	3495.0	DFT-s-OFDM 64 QAM	120@60	23.69	21.49	0.1409
77	30	90	633000	3495.0	DFT-s-OFDM 64 QAM	1@1	23.06	20.86	0.1219
77	30	90	633000	3495.0	DFT-s-OFDM 64 QAM	1@243	22.58	20.38	0.1091
77	30	90	633000	3495.0	DFT-s-OFDM 256 QAM	120@60	21.87	19.67	0.0927
77	30	90	633000	3495.0	DFT-s-OFDM 256 QAM	1@1	21.34	19.14	0.0820
77	30	90	633000	3495.0	DFT-s-OFDM 256 QAM	1@243	21.22	19.02	0.0798
77	30	90	633000	3495.0	CP-OFDM QPSK	123@61	24.75	22.55	0.1799
77	30	90	633000	3495.0	CP-OFDM QPSK	1@1	24.15	21.95	0.1567
77	30	90	633000	3495.0	CP-OFDM QPSK	1@243	23.9	21.7	0.1479
77	30	90	633334	3500.01	DFT-s-OFDM PI/2 BPSK	120@60	26.23	24.03	0.2529
77	30	90	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	25.6	23.4	0.2188
77	30	90	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@243	25.28	23.08	0.2032
77	30	90	633334	3500.01	DFT-s-OFDM QPSK	120@60	26.29	24.09	0.2564
77	30	90	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.62	23.42	0.2198
77	30	90	633334	3500.01	DFT-s-OFDM QPSK	1@243	25.35	23.15	0.2065

77	30	90	633334	3500.01	DFT-s-OFDM 16 QAM	120@60	25.24	23.04	0.2014
77	30	90	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.52	22.32	0.1706
77	30	90	633334	3500.01	DFT-s-OFDM 16 QAM	1@243	24.02	21.82	0.1521
77	30	90	633334	3500.01	DFT-s-OFDM 64 QAM	120@60	23.7	21.5	0.1413
77	30	90	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	22.83	20.63	0.1156
77	30	90	633334	3500.01	DFT-s-OFDM 64 QAM	1@243	22.66	20.46	0.1112
77	30	90	633334	3500.01	DFT-s-OFDM 256 QAM	120@60	21.79	19.59	0.0910
77	30	90	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	21.41	19.21	0.0834
77	30	90	633334	3500.01	DFT-s-OFDM 256 QAM	1@243	21.24	19.04	0.0802
77	30	90	633334	3500.01	CP-OFDM QPSK	123@61	24.66	22.46	0.1762
77	30	90	633334	3500.01	CP-OFDM QPSK	1@1	24.18	21.98	0.1578
77	30	90	633334	3500.01	CP-OFDM QPSK	1@243	23.9	21.7	0.1479
77	30	90	633666	3504.99	DFT-s-OFDM PI/2 BPSK	120@60	26.27	24.07	0.2553
77	30	90	633666	3504.99	DFT-s-OFDM PI/2 BPSK	1@1	25.64	23.44	0.2208
77	30	90	633666	3504.99	DFT-s-OFDM PI/2 BPSK	1@243	25.28	23.08	0.2032
77	30	90	633666	3504.99	DFT-s-OFDM QPSK	120@60	26.17	23.97	0.2495
77	30	90	633666	3504.99	DFT-s-OFDM QPSK	1@1	25.64	23.44	0.2208
77	30	90	633666	3504.99	DFT-s-OFDM QPSK	1@243	25.4	23.2	0.2089
77	30	90	633666	3504.99	DFT-s-OFDM 16 QAM	120@60	25.29	23.09	0.2037
77	30	90	633666	3504.99	DFT-s-OFDM 16 QAM	1@1	24.38	22.18	0.1652
77	30	90	633666	3504.99	DFT-s-OFDM 16 QAM	1@243	24.14	21.94	0.1563
77	30	90	633666	3504.99	DFT-s-OFDM 64 QAM	120@60	23.7	21.5	0.1413
77	30	90	633666	3504.99	DFT-s-OFDM 64 QAM	1@1	23.06	20.86	0.1219
77	30	90	633666	3504.99	DFT-s-OFDM 64 QAM	1@243	22.7	20.5	0.1122

77	30	90	633666	3504.99	DFT-s-OFDM 256 QAM	120@60	21.94	19.74	0.0942
77	30	90	633666	3504.99	DFT-s-OFDM 256 QAM	1@1	21.55	19.35	0.0861
77	30	90	633666	3504.99	DFT-s-OFDM 256 QAM	1@243	21.22	19.02	0.0798
77	30	90	633666	3504.99	CP-OFDM QPSK	123@61	24.71	22.51	0.1782
77	30	90	633666	3504.99	CP-OFDM QPSK	1@1	24.19	21.99	0.1581
77	30	90	633666	3504.99	CP-OFDM QPSK	1@243	23.89	21.69	0.1476
77	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	135@67	26.19	23.99	0.2506
77	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	25.44	23.24	0.2109
77	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@271	25.29	23.09	0.2037
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	135@67	26.22	24.02	0.2523
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.47	23.27	0.2123
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@271	25.19	22.99	0.1991
77	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	135@67	25.19	22.99	0.1991
77	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.08	21.88	0.1542
77	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	1@271	24.04	21.84	0.1528
77	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	135@67	23.74	21.54	0.1426
77	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	22.8	20.6	0.1148
77	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	1@271	22.46	20.26	0.1062
77	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	135@67	21.89	19.69	0.0931
77	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	21.29	19.09	0.0811
77	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	1@271	21.07	18.87	0.0771
77	30	100	633334	3500.01	CP-OFDM QPSK	137@68	24.77	22.57	0.1807
77	30	100	633334	3500.01	CP-OFDM QPSK	1@1	24.06	21.86	0.1535
77	30	100	633334	3500.01	CP-OFDM QPSK	1@271	23.73	21.53	0.1422

FR1 N78

LTE Band: 4, LTE BW: 10M, LTE ARFCN: Mid

Transmitter Conducted Output Power And EIRP, (G_T - L_C)=-2.6dB

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	EIRP (dBm)	EIRP (W)
78	15	10	630334	3455.01	DFT-s-OFDM PI/2 BPSK	25@12	25.08	22.48	0.1770
78	15	10	630334	3455.01	DFT-s-OFDM PI/2 BPSK	1@1	24.63	22.03	0.1596
78	15	10	630334	3455.01	DFT-s-OFDM PI/2 BPSK	1@50	25.01	22.41	0.1742
78	15	10	630334	3455.01	DFT-s-OFDM QPSK	25@12	25.43	22.83	0.1919
78	15	10	630334	3455.01	DFT-s-OFDM QPSK	1@1	24.04	21.44	0.1393
78	15	10	630334	3455.01	DFT-s-OFDM QPSK	1@50	24.03	21.43	0.1390
78	15	10	630334	3455.01	DFT-s-OFDM 16 QAM	25@12	24.53	21.93	0.1560
78	15	10	630334	3455.01	DFT-s-OFDM 16 QAM	1@1	23.14	20.54	0.1132
78	15	10	630334	3455.01	DFT-s-OFDM 16 QAM	1@50	24.48	21.88	0.1542
78	15	10	630334	3455.01	DFT-s-OFDM 64 QAM	25@12	22.64	20.04	0.1009
78	15	10	630334	3455.01	DFT-s-OFDM 64 QAM	1@1	23.2	20.6	0.1148
78	15	10	630334	3455.01	DFT-s-OFDM 64 QAM	1@50	22.9	20.3	0.1072
78	15	10	630334	3455.01	DFT-s-OFDM 256 QAM	25@12	21.69	19.09	0.0811
78	15	10	630334	3455.01	DFT-s-OFDM 256 QAM	1@1	21.8	19.2	0.0832
78	15	10	630334	3455.01	DFT-s-OFDM 256 QAM	1@50	21.55	18.95	0.0785
78	15	10	630334	3455.01	CP-OFDM QPSK	26@13	24.04	21.44	0.1393
78	15	10	630334	3455.01	CP-OFDM QPSK	1@1	22.81	20.21	0.1050
78	15	10	630334	3455.01	CP-OFDM QPSK	1@50	23.62	21.02	0.1265
78	15	10	633334	3500.01	DFT-s-OFDM PI/2 BPSK	25@12	24.47	21.87	0.1538

78	15	10	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	25.68	23.08	0.2032
78	15	10	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@50	23.37	20.77	0.1194
78	15	10	633334	3500.01	DFT-s-OFDM QPSK	25@12	24.52	21.92	0.1556
78	15	10	633334	3500.01	DFT-s-OFDM QPSK	1@1	23.41	20.81	0.1205
78	15	10	633334	3500.01	DFT-s-OFDM QPSK	1@50	23.85	21.25	0.1334
78	15	10	633334	3500.01	DFT-s-OFDM 16 QAM	25@12	24.39	21.79	0.1510
78	15	10	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	22.57	19.97	0.0993
78	15	10	633334	3500.01	DFT-s-OFDM 16 QAM	1@50	23.3	20.7	0.1175
78	15	10	633334	3500.01	DFT-s-OFDM 64 QAM	25@12	22.77	20.17	0.1040
78	15	10	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	23.17	20.57	0.1140
78	15	10	633334	3500.01	DFT-s-OFDM 64 QAM	1@50	23.28	20.68	0.1169
78	15	10	633334	3500.01	DFT-s-OFDM 256 QAM	25@12	21.57	18.97	0.0789
78	15	10	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	21.61	19.01	0.0796
78	15	10	633334	3500.01	DFT-s-OFDM 256 QAM	1@50	21.48	18.88	0.0773
78	15	10	633334	3500.01	CP-OFDM QPSK	26@13	23.22	20.62	0.1153
78	15	10	633334	3500.01	CP-OFDM QPSK	1@1	23.83	21.23	0.1327
78	15	10	633334	3500.01	CP-OFDM QPSK	1@50	23.47	20.87	0.1222
78	15	10	636333	3544.99	DFT-s-OFDM PI/2 BPSK	25@12	24.79	22.19	0.1656
78	15	10	636333	3544.99	DFT-s-OFDM PI/2 BPSK	1@1	24.19	21.59	0.1442
78	15	10	636333	3544.99	DFT-s-OFDM PI/2 BPSK	1@50	24.82	22.22	0.1667
78	15	10	636333	3544.99	DFT-s-OFDM QPSK	25@12	24.29	21.69	0.1476
78	15	10	636333	3544.99	DFT-s-OFDM QPSK	1@1	24.18	21.58	0.1439
78	15	10	636333	3544.99	DFT-s-OFDM QPSK	1@50	24.19	21.59	0.1442
78	15	10	636333	3544.99	DFT-s-OFDM 16 QAM	25@12	24.72	22.12	0.1629

78	15	10	636333	3544.99	DFT-s-OFDM 16 QAM	1@1	24.27	21.67	0.1469
78	15	10	636333	3544.99	DFT-s-OFDM 16 QAM	1@50	22.42	19.82	0.0959
78	15	10	636333	3544.99	DFT-s-OFDM 64 QAM	25@12	23.33	20.73	0.1183
78	15	10	636333	3544.99	DFT-s-OFDM 64 QAM	1@1	24.24	21.64	0.1459
78	15	10	636333	3544.99	DFT-s-OFDM 64 QAM	1@50	23.58	20.98	0.1253
78	15	10	636333	3544.99	DFT-s-OFDM 256 QAM	25@12	21.9	19.3	0.0851
78	15	10	636333	3544.99	DFT-s-OFDM 256 QAM	1@1	21.76	19.16	0.0824
78	15	10	636333	3544.99	DFT-s-OFDM 256 QAM	1@50	21.86	19.26	0.0843
78	15	10	636333	3544.99	CP-OFDM QPSK	26@13	23.88	21.28	0.1343
78	15	10	636333	3544.99	CP-OFDM QPSK	1@1	23.26	20.66	0.1164
78	15	10	636333	3544.99	CP-OFDM QPSK	1@50	23.83	21.23	0.1327
78	15	15	630500	3457.5	DFT-s-OFDM PI/2 BPSK	36@18	23.01	20.41	0.1099
78	15	15	630500	3457.5	DFT-s-OFDM PI/2 BPSK	1@1	24.27	21.67	0.1469
78	15	15	630500	3457.5	DFT-s-OFDM PI/2 BPSK	1@77	25.17	22.57	0.1807
78	15	15	630500	3457.5	DFT-s-OFDM QPSK	36@18	24.79	22.19	0.1656
78	15	15	630500	3457.5	DFT-s-OFDM QPSK	1@1	24.66	22.06	0.1607
78	15	15	630500	3457.5	DFT-s-OFDM QPSK	1@77	22.91	20.31	0.1074
78	15	15	630500	3457.5	DFT-s-OFDM 16 QAM	36@18	24.35	21.75	0.1496
78	15	15	630500	3457.5	DFT-s-OFDM 16 QAM	1@1	23.77	21.17	0.1309
78	15	15	630500	3457.5	DFT-s-OFDM 16 QAM	1@77	23.99	21.39	0.1377
78	15	15	630500	3457.5	DFT-s-OFDM 64 QAM	36@18	23.82	21.22	0.1324
78	15	15	630500	3457.5	DFT-s-OFDM 64 QAM	1@1	22.97	20.37	0.1089
78	15	15	630500	3457.5	DFT-s-OFDM 64 QAM	1@77	22.78	20.18	0.1042
78	15	15	630500	3457.5	DFT-s-OFDM 256 QAM	36@18	21.94	19.34	0.0859

78	15	15	630500	3457.5	DFT-s-OFDM 256 QAM	1@1	21.83	19.23	0.0838
78	15	15	630500	3457.5	DFT-s-OFDM 256 QAM	1@77	21.83	19.23	0.0838
78	15	15	630500	3457.5	CP-OFDM QPSK	39@191	22.8	20.2	0.1047
78	15	15	630500	3457.5	CP-OFDM QPSK	1@1	23.69	21.09	0.1285
78	15	15	630500	3457.5	CP-OFDM QPSK	1@77	23.38	20.78	0.1197
78	15	15	633334	3500.01	DFT-s-OFDM PI/2 BPSK	36@18	24.18	21.58	0.1439
78	15	15	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	24.69	22.09	0.1618
78	15	15	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@77	23.46	20.86	0.1219
78	15	15	633334	3500.01	DFT-s-OFDM QPSK	36@18	25.13	22.53	0.1791
78	15	15	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.03	22.43	0.1750
78	15	15	633334	3500.01	DFT-s-OFDM QPSK	1@77	24.42	21.82	0.1521
78	15	15	633334	3500.01	DFT-s-OFDM 16 QAM	36@18	24.22	21.62	0.1452
78	15	15	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	23.9	21.3	0.1349
78	15	15	633334	3500.01	DFT-s-OFDM 16 QAM	1@77	23.87	21.27	0.1340
78	15	15	633334	3500.01	DFT-s-OFDM 64 QAM	36@18	23.41	20.81	0.1205
78	15	15	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	23.24	20.64	0.1159
78	15	15	633334	3500.01	DFT-s-OFDM 64 QAM	1@77	23.15	20.55	0.1135
78	15	15	633334	3500.01	DFT-s-OFDM 256 QAM	36@18	21.81	19.21	0.0834
78	15	15	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	21.76	19.16	0.0824
78	15	15	633334	3500.01	DFT-s-OFDM 256 QAM	1@77	21.6	19	0.0794
78	15	15	633334	3500.01	CP-OFDM QPSK	39@191	22.72	20.12	0.1028
78	15	15	633334	3500.01	CP-OFDM QPSK	1@1	23.67	21.07	0.1279
78	15	15	633334	3500.01	CP-OFDM QPSK	1@77	24.5	21.9	0.1549
78	15	15	636166	3542.49	DFT-s-OFDM PI/2 BPSK	36@18	25.35	22.75	0.1884

78	15	15	636166	3542.49	DFT-s-OFDM PI/2 BPSK	1@1	24.74	22.14	0.1637
78	15	15	636166	3542.49	DFT-s-OFDM PI/2 BPSK	1@77	24.9	22.3	0.1698
78	15	15	636166	3542.49	DFT-s-OFDM QPSK	36@18	26.49	23.89	0.2449
78	15	15	636166	3542.49	DFT-s-OFDM QPSK	1@1	25.13	22.53	0.1791
78	15	15	636166	3542.49	DFT-s-OFDM QPSK	1@77	24.37	21.77	0.1503
78	15	15	636166	3542.49	DFT-s-OFDM 16 QAM	36@18	25.18	22.58	0.1811
78	15	15	636166	3542.49	DFT-s-OFDM 16 QAM	1@1	23.66	21.06	0.1276
78	15	15	636166	3542.49	DFT-s-OFDM 16 QAM	1@77	24.21	21.61	0.1449
78	15	15	636166	3542.49	DFT-s-OFDM 64 QAM	36@18	23.39	20.79	0.1199
78	15	15	636166	3542.49	DFT-s-OFDM 64 QAM	1@1	22.93	20.33	0.1079
78	15	15	636166	3542.49	DFT-s-OFDM 64 QAM	1@77	23.22	20.62	0.1153
78	15	15	636166	3542.49	DFT-s-OFDM 256 QAM	36@18	22.09	19.49	0.0889
78	15	15	636166	3542.49	DFT-s-OFDM 256 QAM	1@1	21.88	19.28	0.0847
78	15	15	636166	3542.49	DFT-s-OFDM 256 QAM	1@77	22.05	19.45	0.0881
78	15	15	636166	3542.49	CP-OFDM QPSK	39@191	23.37	20.77	0.1194
78	15	15	636166	3542.49	CP-OFDM QPSK	1@1	24.14	21.54	0.1426
78	15	15	636166	3542.49	CP-OFDM QPSK	1@77	24.33	21.73	0.1489
78	15	20	630667	3460.01	DFT-s-OFDM PI/2 BPSK	50@25	26.17	23.57	0.2275
78	15	20	630667	3460.01	DFT-s-OFDM PI/2 BPSK	1@1	26.04	23.44	0.2208
78	15	20	630667	3460.01	DFT-s-OFDM PI/2 BPSK	1@104	26.17	23.57	0.2275
78	15	20	630667	3460.01	DFT-s-OFDM QPSK	50@25	26.3	23.7	0.2344
78	15	20	630667	3460.01	DFT-s-OFDM QPSK	1@1	26.13	23.53	0.2254
78	15	20	630667	3460.01	DFT-s-OFDM QPSK	1@104	26.14	23.54	0.2259
78	15	20	630667	3460.01	DFT-s-OFDM 16 QAM	50@25	25.6	23	0.1995

78	15	20	630667	3460.01	DFT-s-OFDM 16 QAM	1@1	25.22	22.62	0.1828
78	15	20	630667	3460.01	DFT-s-OFDM 16 QAM	1@104	25.25	22.65	0.1841
78	15	20	630667	3460.01	DFT-s-OFDM 64 QAM	50@25	24.02	21.42	0.1387
78	15	20	630667	3460.01	DFT-s-OFDM 64 QAM	1@1	24.05	21.45	0.1396
78	15	20	630667	3460.01	DFT-s-OFDM 64 QAM	1@104	23.99	21.39	0.1377
78	15	20	630667	3460.01	DFT-s-OFDM 256 QAM	50@25	21.96	19.36	0.0863
78	15	20	630667	3460.01	DFT-s-OFDM 256 QAM	1@1	22.21	19.61	0.0914
78	15	20	630667	3460.01	DFT-s-OFDM 256 QAM	1@104	22.13	19.53	0.0897
78	15	20	630667	3460.01	CP-OFDM QPSK	53@26	24.99	22.39	0.1734
78	15	20	630667	3460.01	CP-OFDM QPSK	1@1	24.95	22.35	0.1718
78	15	20	630667	3460.01	CP-OFDM QPSK	1@104	24.88	22.28	0.1690
78	15	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	50@25	26.15	23.55	0.2265
78	15	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	26.08	23.48	0.2228
78	15	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@104	25.85	23.25	0.2113
78	15	20	633334	3500.01	DFT-s-OFDM QPSK	50@25	26.15	23.55	0.2265
78	15	20	633334	3500.01	DFT-s-OFDM QPSK	1@1	26.06	23.46	0.2218
78	15	20	633334	3500.01	DFT-s-OFDM QPSK	1@104	25.9	23.3	0.2138
78	15	20	633334	3500.01	DFT-s-OFDM 16 QAM	50@25	25.35	22.75	0.1884
78	15	20	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	25.2	22.6	0.1820
78	15	20	633334	3500.01	DFT-s-OFDM 16 QAM	1@104	25.01	22.41	0.1742
78	15	20	633334	3500.01	DFT-s-OFDM 64 QAM	50@25	23.91	21.31	0.1352
78	15	20	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	23.99	21.39	0.1377
78	15	20	633334	3500.01	DFT-s-OFDM 64 QAM	1@104	23.75	21.15	0.1303
78	15	20	633334	3500.01	DFT-s-OFDM 256 QAM	50@25	21.73	19.13	0.0818

78	15	20	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	22.12	19.52	0.0895
78	15	20	633334	3500.01	DFT-s-OFDM 256 QAM	1@104	21.9	19.3	0.0851
78	15	20	633334	3500.01	CP-OFDM QPSK	53@26	24.81	22.21	0.1663
78	15	20	633334	3500.01	CP-OFDM QPSK	1@1	24.82	22.22	0.1667
78	15	20	633334	3500.01	CP-OFDM QPSK	1@104	24.05	21.45	0.1396
78	15	20	636000	3540.0	DFT-s-OFDM PI/2 BPSK	50@25	26.39	23.79	0.2393
78	15	20	636000	3540.0	DFT-s-OFDM PI/2 BPSK	1@1	26.04	23.44	0.2208
78	15	20	636000	3540.0	DFT-s-OFDM PI/2 BPSK	1@104	26.19	23.59	0.2286
78	15	20	636000	3540.0	DFT-s-OFDM QPSK	50@25	26.38	23.78	0.2388
78	15	20	636000	3540.0	DFT-s-OFDM QPSK	1@1	26.05	23.45	0.2213
78	15	20	636000	3540.0	DFT-s-OFDM QPSK	1@104	26.17	23.57	0.2275
78	15	20	636000	3540.0	DFT-s-OFDM 16 QAM	50@25	25.63	23.03	0.2009
78	15	20	636000	3540.0	DFT-s-OFDM 16 QAM	1@1	24.56	21.96	0.1570
78	15	20	636000	3540.0	DFT-s-OFDM 16 QAM	1@104	23.91	21.31	0.1352
78	15	20	636000	3540.0	DFT-s-OFDM 64 QAM	50@25	24.1	21.5	0.1413
78	15	20	636000	3540.0	DFT-s-OFDM 64 QAM	1@1	23.96	21.36	0.1368
78	15	20	636000	3540.0	DFT-s-OFDM 64 QAM	1@104	24.1	21.5	0.1413
78	15	20	636000	3540.0	DFT-s-OFDM 256 QAM	50@25	21.95	19.35	0.0861
78	15	20	636000	3540.0	DFT-s-OFDM 256 QAM	1@1	22.1	19.5	0.0891
78	15	20	636000	3540.0	DFT-s-OFDM 256 QAM	1@104	22.25	19.65	0.0923
78	15	20	636000	3540.0	CP-OFDM QPSK	53@26	25.01	22.41	0.1742
78	15	20	636000	3540.0	CP-OFDM QPSK	1@1	24.33	21.73	0.1489
78	15	20	636000	3540.0	CP-OFDM QPSK	1@104	24.99	22.39	0.1734
78	15	40	631334	3470.01	DFT-s-OFDM PI/2 BPSK	108@54	26.42	23.82	0.2410

78	15	40	631334	3470.01	DFT-s-OFDM PI/2 BPSK	1@1	25.73	23.13	0.2056
78	15	40	631334	3470.01	DFT-s-OFDM PI/2 BPSK	1@214	25.75	23.15	0.2065
78	15	40	631334	3470.01	DFT-s-OFDM QPSK	108@54	26.37	23.77	0.2382
78	15	40	631334	3470.01	DFT-s-OFDM QPSK	1@1	25.91	23.31	0.2143
78	15	40	631334	3470.01	DFT-s-OFDM QPSK	1@214	25.67	23.07	0.2028
78	15	40	631334	3470.01	DFT-s-OFDM 16 QAM	108@54	24.12	21.52	0.1419
78	15	40	631334	3470.01	DFT-s-OFDM 16 QAM	1@1	25.13	22.53	0.1791
78	15	40	631334	3470.01	DFT-s-OFDM 16 QAM	1@214	24.76	22.16	0.1644
78	15	40	631334	3470.01	DFT-s-OFDM 64 QAM	108@54	22.85	20.25	0.1059
78	15	40	631334	3470.01	DFT-s-OFDM 64 QAM	1@1	23.7	21.1	0.1288
78	15	40	631334	3470.01	DFT-s-OFDM 64 QAM	1@214	23.51	20.91	0.1233
78	15	40	631334	3470.01	DFT-s-OFDM 256 QAM	108@54	21.91	19.31	0.0853
78	15	40	631334	3470.01	DFT-s-OFDM 256 QAM	1@1	21.18	18.58	0.0721
78	15	40	631334	3470.01	DFT-s-OFDM 256 QAM	1@214	21.63	19.03	0.0800
78	15	40	631334	3470.01	CP-OFDM QPSK	108@54	25.03	22.43	0.1750
78	15	40	631334	3470.01	CP-OFDM QPSK	1@1	24.66	22.06	0.1607
78	15	40	631334	3470.01	CP-OFDM QPSK	1@214	24.35	21.75	0.1496
78	15	40	633334	3500.01	DFT-s-OFDM PI/2 BPSK	108@54	26.22	23.62	0.2301
78	15	40	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	25.95	23.35	0.2163
78	15	40	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@214	25.53	22.93	0.1963
78	15	40	633334	3500.01	DFT-s-OFDM QPSK	108@54	26.22	23.62	0.2301
78	15	40	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.95	23.35	0.2163
78	15	40	633334	3500.01	DFT-s-OFDM QPSK	1@214	25.6	23	0.1995
78	15	40	633334	3500.01	DFT-s-OFDM 16 QAM	108@54	24.7	22.1	0.1622

78	15	40	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	25	22.4	0.1738
78	15	40	633334	3500.01	DFT-s-OFDM 16 QAM	1@214	24.64	22.04	0.1600
78	15	40	633334	3500.01	DFT-s-OFDM 64 QAM	108@54	23.79	21.19	0.1315
78	15	40	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	23.76	21.16	0.1306
78	15	40	633334	3500.01	DFT-s-OFDM 64 QAM	1@214	23.4	20.8	0.1202
78	15	40	633334	3500.01	DFT-s-OFDM 256 QAM	108@54	21.64	19.04	0.0802
78	15	40	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	21.77	19.17	0.0826
78	15	40	633334	3500.01	DFT-s-OFDM 256 QAM	1@214	20.94	18.34	0.0682
78	15	40	633334	3500.01	CP-OFDM QPSK	108@54	24.79	22.19	0.1656
78	15	40	633334	3500.01	CP-OFDM QPSK	1@1	24.07	21.47	0.1403
78	15	40	633334	3500.01	CP-OFDM QPSK	1@214	24.32	21.72	0.1486
78	15	40	635333	3529.99	DFT-s-OFDM PI/2 BPSK	108@54	26.33	23.73	0.2360
78	15	40	635333	3529.99	DFT-s-OFDM PI/2 BPSK	1@1	25.76	23.16	0.2070
78	15	40	635333	3529.99	DFT-s-OFDM PI/2 BPSK	1@214	25.85	23.25	0.2113
78	15	40	635333	3529.99	DFT-s-OFDM QPSK	108@54	26.36	23.76	0.2377
78	15	40	635333	3529.99	DFT-s-OFDM QPSK	1@1	25.66	23.06	0.2023
78	15	40	635333	3529.99	DFT-s-OFDM QPSK	1@214	25.95	23.35	0.2163
78	15	40	635333	3529.99	DFT-s-OFDM 16 QAM	108@54	25.52	22.92	0.1959
78	15	40	635333	3529.99	DFT-s-OFDM 16 QAM	1@1	24.76	22.16	0.1644
78	15	40	635333	3529.99	DFT-s-OFDM 16 QAM	1@214	24.94	22.34	0.1714
78	15	40	635333	3529.99	DFT-s-OFDM 64 QAM	108@54	23.95	21.35	0.1365
78	15	40	635333	3529.99	DFT-s-OFDM 64 QAM	1@1	23.53	20.93	0.1239
78	15	40	635333	3529.99	DFT-s-OFDM 64 QAM	1@214	23.69	21.09	0.1285
78	15	40	635333	3529.99	DFT-s-OFDM 256 QAM	108@54	21.81	19.21	0.0834

78	15	40	635333	3529.99	DFT-s-OFDM 256 QAM	1@1	21.58	18.98	0.0791
78	15	40	635333	3529.99	DFT-s-OFDM 256 QAM	1@214	21.84	19.24	0.0839
78	15	40	635333	3529.99	CP-OFDM QPSK	108@54	24.88	22.28	0.1690
78	15	40	635333	3529.99	CP-OFDM QPSK	1@1	24.38	21.78	0.1507
78	15	40	635333	3529.99	CP-OFDM QPSK	1@214	23.99	21.39	0.1377
78	15	50	631667	3475.01	DFT-s-OFDM PI/2 BPSK	135@67	26.42	23.82	0.2410
78	15	50	631667	3475.01	DFT-s-OFDM PI/2 BPSK	1@1	26.06	23.46	0.2218
78	15	50	631667	3475.01	DFT-s-OFDM PI/2 BPSK	1@268	25.99	23.39	0.2183
78	15	50	631667	3475.01	DFT-s-OFDM QPSK	135@67	26.53	23.93	0.2472
78	15	50	631667	3475.01	DFT-s-OFDM QPSK	1@1	26.14	23.54	0.2259
78	15	50	631667	3475.01	DFT-s-OFDM QPSK	1@268	26.01	23.41	0.2193
78	15	50	631667	3475.01	DFT-s-OFDM 16 QAM	135@67	25.72	23.12	0.2051
78	15	50	631667	3475.01	DFT-s-OFDM 16 QAM	1@1	25.23	22.63	0.1832
78	15	50	631667	3475.01	DFT-s-OFDM 16 QAM	1@268	25.07	22.47	0.1766
78	15	50	631667	3475.01	DFT-s-OFDM 64 QAM	135@67	24.2	21.6	0.1445
78	15	50	631667	3475.01	DFT-s-OFDM 64 QAM	1@1	24.02	21.42	0.1387
78	15	50	631667	3475.01	DFT-s-OFDM 64 QAM	1@268	23.63	21.03	0.1268
78	15	50	631667	3475.01	DFT-s-OFDM 256 QAM	135@67	21.98	19.38	0.0867
78	15	50	631667	3475.01	DFT-s-OFDM 256 QAM	1@1	22.12	19.52	0.0895
78	15	50	631667	3475.01	DFT-s-OFDM 256 QAM	1@268	21.91	19.31	0.0853
78	15	50	631667	3475.01	CP-OFDM QPSK	135@67	25.09	22.49	0.1774
78	15	50	631667	3475.01	CP-OFDM QPSK	1@1	24.94	22.34	0.1714
78	15	50	631667	3475.01	CP-OFDM QPSK	1@268	24.65	22.05	0.1603
78	15	50	633334	3500.01	DFT-s-OFDM PI/2 BPSK	135@67	25.52	22.92	0.1959

78	15	50	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	26.24	23.64	0.2312
78	15	50	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@268	26.1	23.5	0.2239
78	15	50	633334	3500.01	DFT-s-OFDM QPSK	135@67	26.37	23.77	0.2382
78	15	50	633334	3500.01	DFT-s-OFDM QPSK	1@1	26.25	23.65	0.2317
78	15	50	633334	3500.01	DFT-s-OFDM QPSK	1@268	26.08	23.48	0.2228
78	15	50	633334	3500.01	DFT-s-OFDM 16 QAM	135@67	24.01	21.41	0.1384
78	15	50	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	25.28	22.68	0.1854
78	15	50	633334	3500.01	DFT-s-OFDM 16 QAM	1@268	25.05	22.45	0.1758
78	15	50	633334	3500.01	DFT-s-OFDM 64 QAM	135@67	24.05	21.45	0.1396
78	15	50	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	24	21.4	0.1380
78	15	50	633334	3500.01	DFT-s-OFDM 64 QAM	1@268	23.84	21.24	0.1330
78	15	50	633334	3500.01	DFT-s-OFDM 256 QAM	135@67	21.86	19.26	0.0843
78	15	50	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	22.12	19.52	0.0895
78	15	50	633334	3500.01	DFT-s-OFDM 256 QAM	1@268	21.93	19.33	0.0857
78	15	50	633334	3500.01	CP-OFDM QPSK	135@67	24.91	22.31	0.1702
78	15	50	633334	3500.01	CP-OFDM QPSK	1@1	24.88	22.28	0.1690
78	15	50	633334	3500.01	CP-OFDM QPSK	1@268	24.77	22.17	0.1648
78	15	50	635000	3525.0	DFT-s-OFDM PI/2 BPSK	135@67	26.33	23.73	0.2360
78	15	50	635000	3525.0	DFT-s-OFDM PI/2 BPSK	1@1	26.03	23.43	0.2203
78	15	50	635000	3525.0	DFT-s-OFDM PI/2 BPSK	1@268	26.22	23.62	0.2301
78	15	50	635000	3525.0	DFT-s-OFDM QPSK	135@67	26.55	23.95	0.2483
78	15	50	635000	3525.0	DFT-s-OFDM QPSK	1@1	26.04	23.44	0.2208
78	15	50	635000	3525.0	DFT-s-OFDM QPSK	1@268	26.2	23.6	0.2291
78	15	50	635000	3525.0	DFT-s-OFDM 16 QAM	135@67	25.56	22.96	0.1977

78	15	50	635000	3525.0	DFT-s-OFDM 16 QAM	1@1	25.06	22.46	0.1762
78	15	50	635000	3525.0	DFT-s-OFDM 16 QAM	1@268	24.58	21.98	0.1578
78	15	50	635000	3525.0	DFT-s-OFDM 64 QAM	135@67	24.01	21.41	0.1384
78	15	50	635000	3525.0	DFT-s-OFDM 64 QAM	1@1	23.82	21.22	0.1324
78	15	50	635000	3525.0	DFT-s-OFDM 64 QAM	1@268	23.97	21.37	0.1371
78	15	50	635000	3525.0	DFT-s-OFDM 256 QAM	135@67	21.89	19.29	0.0849
78	15	50	635000	3525.0	DFT-s-OFDM 256 QAM	1@1	21.33	18.73	0.0746
78	15	50	635000	3525.0	DFT-s-OFDM 256 QAM	1@268	21.56	18.96	0.0787
78	15	50	635000	3525.0	CP-OFDM QPSK	135@67	24.89	22.29	0.1694
78	15	50	635000	3525.0	CP-OFDM QPSK	1@1	24.68	22.08	0.1614
78	15	50	635000	3525.0	CP-OFDM QPSK	1@268	24.96	22.36	0.1722

Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
78	15	20	633334	3500.01	DFT-s-OFDM QPSK	100@0	-0.00217	PASS	NV
78	15	20	633334	3500.01	DFT-s-OFDM QPSK	100@0	-0.00279	PASS	LV
78	15	20	633334	3500.01	DFT-s-OFDM QPSK	100@0	-0.00348	PASS	HV
78	15	20	633334	3500.01	DFT-s-OFDM QPSK	100@0	-0.00363	PASS	-30°C
78	15	20	633334	3500.01	DFT-s-OFDM QPSK	100@0	-0.00545	PASS	-20°C
78	15	20	633334	3500.01	DFT-s-OFDM QPSK	100@0	-0.00370	PASS	-10°C
78	15	20	633334	3500.01	DFT-s-OFDM QPSK	100@0	-0.00260	PASS	0°C
78	15	20	633334	3500.01	DFT-s-OFDM QPSK	100@0	-0.00289	PASS	10°C
78	15	20	633334	3500.01	DFT-s-OFDM QPSK	100@0	-0.00397	PASS	20°C
78	15	20	633334	3500.01	DFT-s-OFDM QPSK	100@0	-0.00343	PASS	30°C
78	15	20	633334	3500.01	DFT-s-OFDM QPSK	100@0	-0.00212	PASS	40°C
78	15	20	633334	3500.01	DFT-s-OFDM QPSK	100@0	-0.00403	PASS	50°C

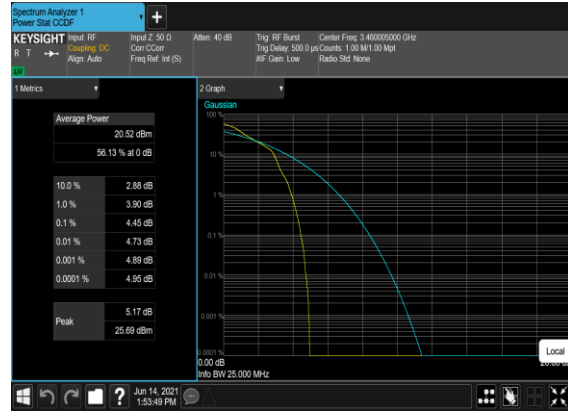
Peak to Average Ratio

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
78	15	20	630667	3460.01	DFT-s-OFDM PI/2 BPSK	100@0	8.3	13	PASS
78	15	20	630667	3460.01	DFT-s-OFDM PI/2 BPSK	1@0	4.45	13	PASS
78	15	20	630667	3460.01	DFT-s-OFDM QPSK	100@0	7.29	13	PASS
78	15	20	630667	3460.01	DFT-s-OFDM QPSK	1@0	6.87	13	PASS
78	15	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	100@0	6.47	13	PASS
78	15	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@0	4.46	13	PASS
78	15	20	633334	3500.01	DFT-s-OFDM QPSK	100@0	9.04	13	PASS
78	15	20	633334	3500.01	DFT-s-OFDM QPSK	1@0	6.55	13	PASS
78	15	20	636000	3540.0	DFT-s-OFDM PI/2 BPSK	100@0	6.77	13	PASS
78	15	20	636000	3540.0	DFT-s-OFDM PI/2 BPSK	1@0	4.77	13	PASS
78	15	20	636000	3540.0	DFT-s-OFDM QPSK	100@0	7.57	13	PASS
78	15	20	636000	3540.0	DFT-s-OFDM QPSK	1@0	6.82	13	PASS

B4_N78(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Low_CH



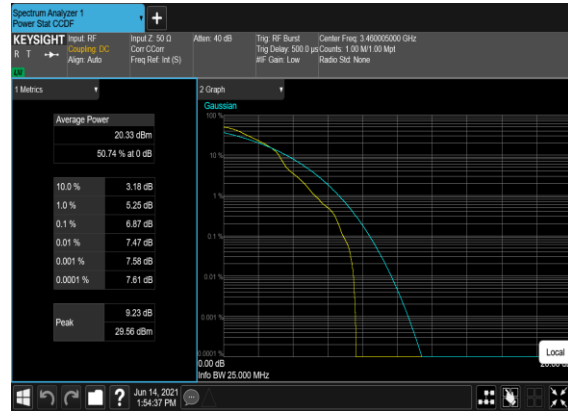
B4_N78(20M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_Low_CH



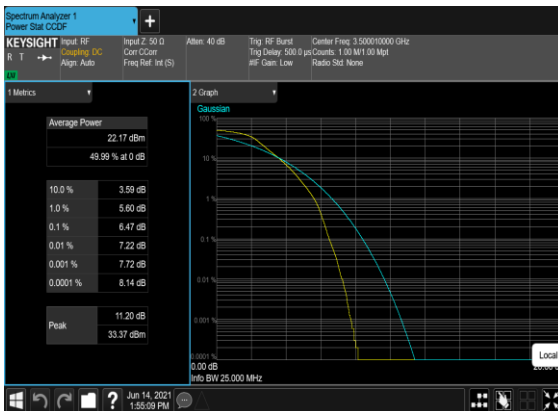
B4_N78(20M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



B4_N78(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



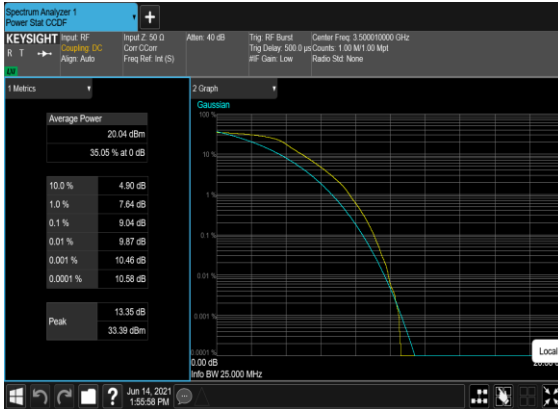
B4_N78(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



B4_N78(20M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_Mid_CH



B4_N78(20M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



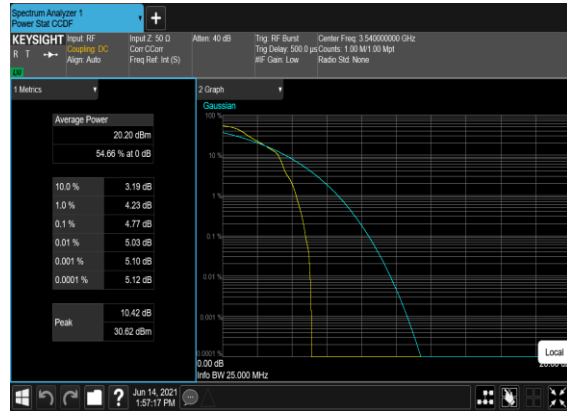
B4_N78(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



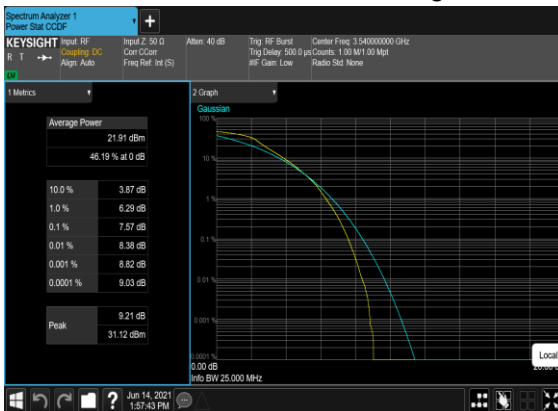
B4_N78(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_High_CH



B4_N78(20M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_High_CH



B4_N78(20M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



B4_N78(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH

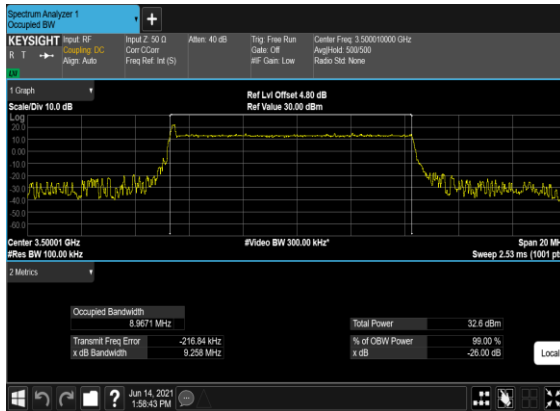


Occupied Bandwidth

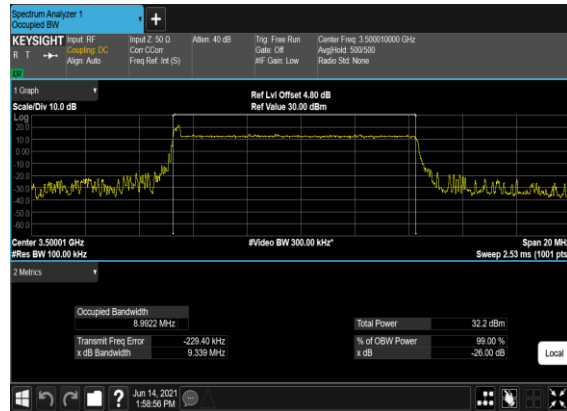
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB OBW (MHz)
78	15	10	633334	3500.01	DFT-s-OFDM PI/2 BPSK	50@0	8.9671	9.258
78	15	10	633334	3500.01	DFT-s-OFDM QPSK	50@0	8.9922	9.339
78	15	10	633334	3500.01	CP-OFDM QPSK	52@0	9.3574	9.686
78	15	10	633334	3500.01	CP-OFDM 16 QAM	52@0	9.3471	9.57
78	15	10	633334	3500.01	CP-OFDM 64 QAM	52@0	9.3672	9.685
78	15	10	633334	3500.01	CP-OFDM 256 QAM	52@0	9.3323	9.721
78	15	15	633334	3500.01	DFT-s-OFDM PI/2 BPSK	75@0	13.507	13.95
78	15	15	633334	3500.01	DFT-s-OFDM QPSK	75@0	13.494	13.99
78	15	15	633334	3500.01	CP-OFDM QPSK	79@0	14.217	14.54
78	15	15	633334	3500.01	CP-OFDM 16 QAM	79@0	14.22	14.53
78	15	15	633334	3500.01	CP-OFDM 64 QAM	79@0	14.215	14.56
78	15	15	633334	3500.01	CP-OFDM 256 QAM	79@0	14.273	14.63
78	15	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	100@0	17.995	18.57
78	15	20	633334	3500.01	DFT-s-OFDM QPSK	100@0	18.035	18.53
78	15	20	633334	3500.01	CP-OFDM QPSK	106@0	18.865	19.95
78	15	20	633334	3500.01	CP-OFDM 16 QAM	106@0	19.02	19.61
78	15	20	633334	3500.01	CP-OFDM 64 QAM	106@0	19.061	19.53
78	15	20	633334	3500.01	CP-OFDM 256 QAM	106@0	19.066	19.67
78	15	40	633334	3500.01	DFT-s-OFDM PI/2 BPSK	216@0	38.913	39.79
78	15	40	633334	3500.01	DFT-s-OFDM QPSK	216@0	38.927	39.74
78	15	40	633334	3500.01	CP-OFDM QPSK	216@0	38.897	39.7
78	15	40	633334	3500.01	CP-OFDM 16 QAM	216@0	38.886	39.67
78	15	40	633334	3500.01	CP-OFDM 64 QAM	216@0	38.93	39.71
78	15	40	633334	3500.01	CP-OFDM 256 QAM	216@0	38.843	39.61

78	15	50	633334	3500.01	DFT-s-OFDM PI/2 BPSK	270@0	48.637	49.72
78	15	50	633334	3500.01	DFT-s-OFDM QPSK	270@0	48.686	49.65
78	15	50	633334	3500.01	CP-OFDM QPSK	270@0	48.702	49.64
78	15	50	633334	3500.01	CP-OFDM 16 QAM	270@0	48.648	49.55
78	15	50	633334	3500.01	CP-OFDM 64 QAM	270@0	48.646	49.56
78	15	50	633334	3500.01	CP-OFDM 256 QAM	270@0	48.498	49.54

B4_N78(10M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_Mid_CH



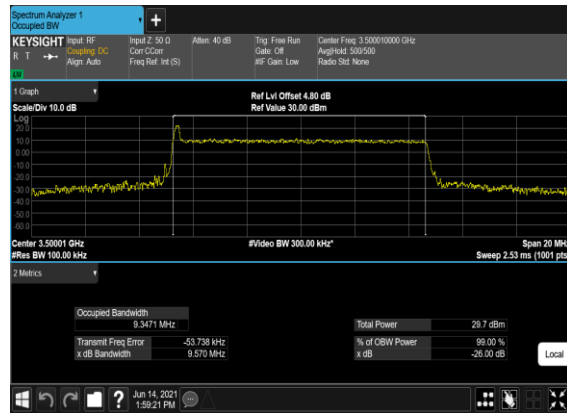
B4_N78(10M)_DFT-s-
OFDM_QPSK_Outer_Full_Mid_CH



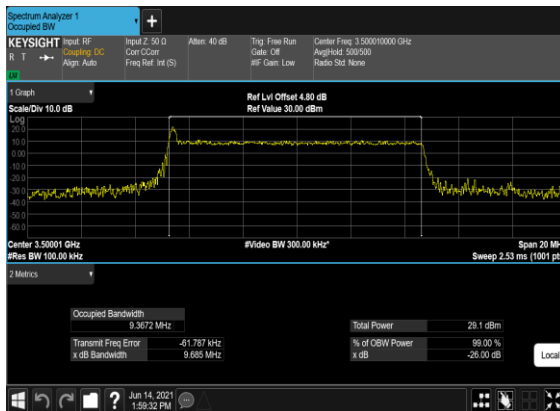
B4_N78(10M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



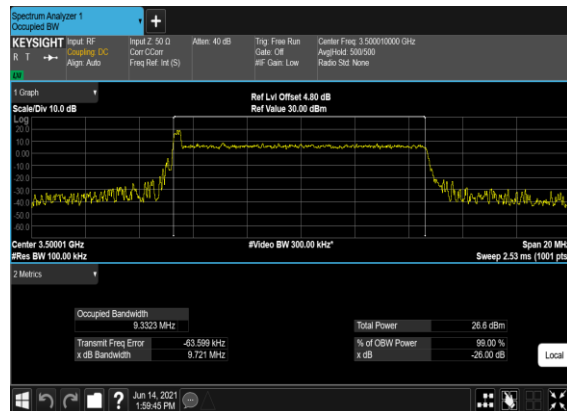
B4_N78(10M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



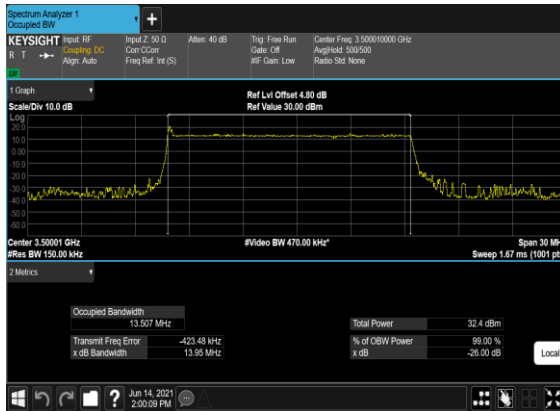
B4_N78(10M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



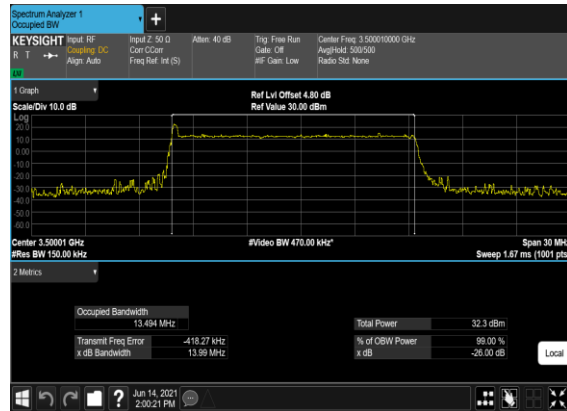
B4_N78(10M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



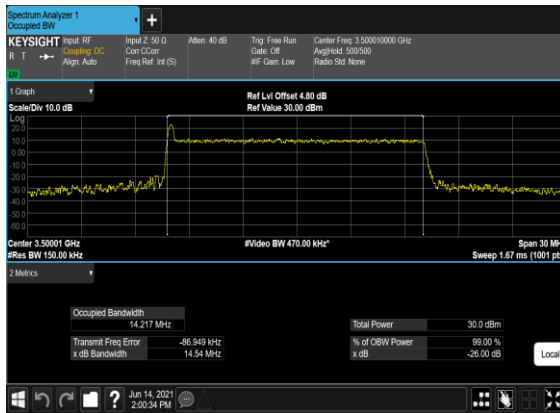
B4_N78(15M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_Mid_CH



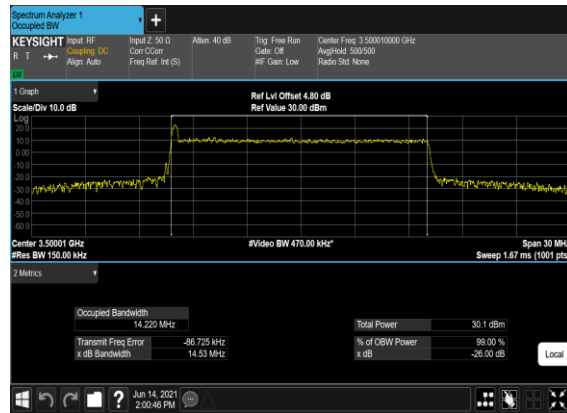
B4_N78(15M)_DFT-s-
OFDM_QPSK_Outer_Full_Mid_CH



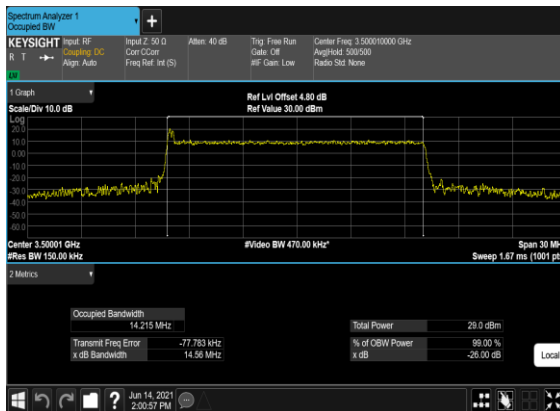
B4_N78(15M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



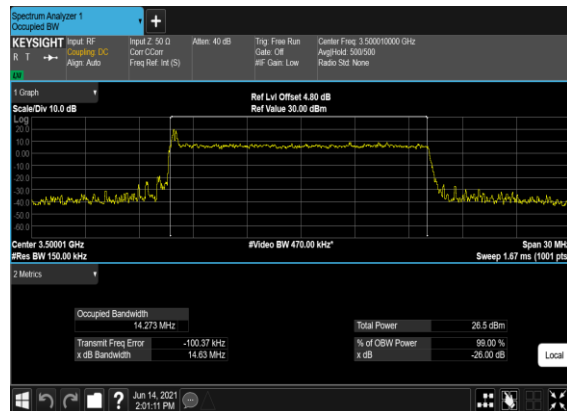
B4_N78(15M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



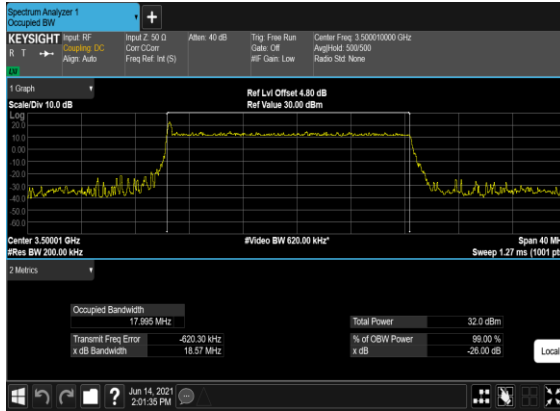
B4_N78(15M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



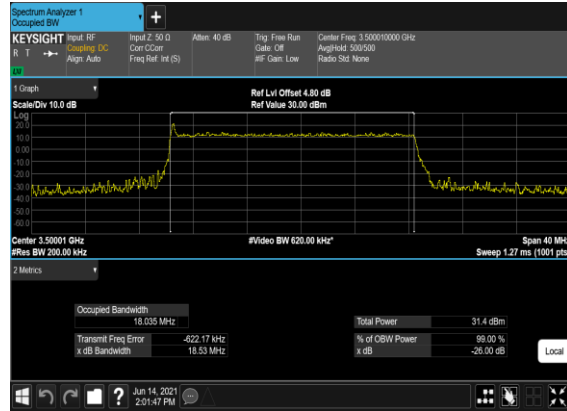
B4_N78(15M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



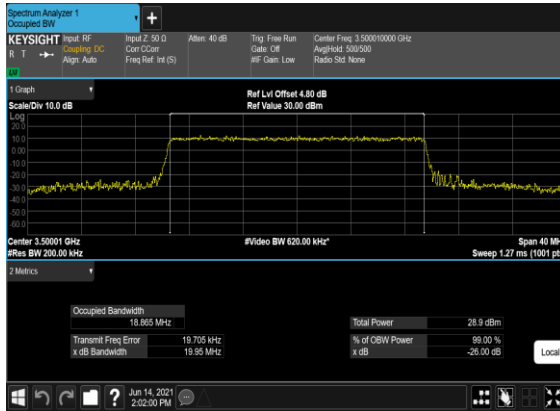
B4_N78(20M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_Mid_CH



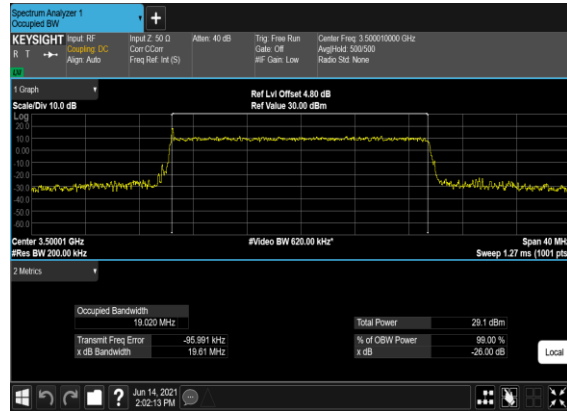
B4_N78(20M)_DFT-s-
OFDM_QPSK_Outer_Full_Mid_CH



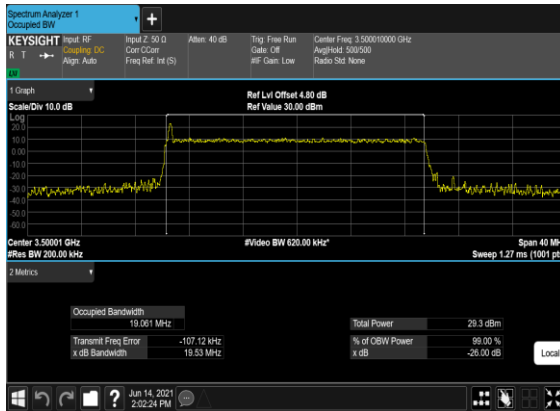
B4_N78(20M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



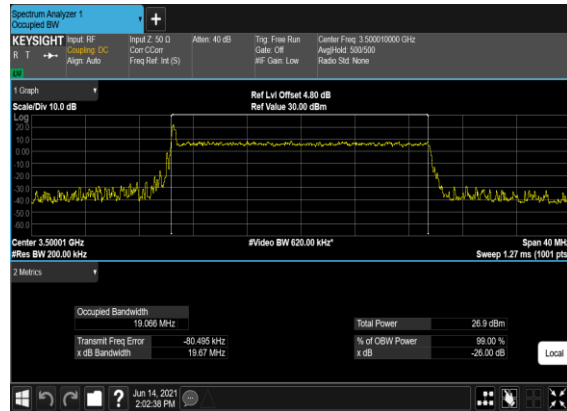
B4_N78(20M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



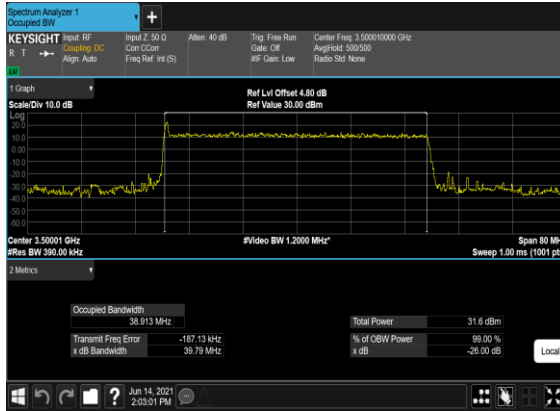
B4_N78(20M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



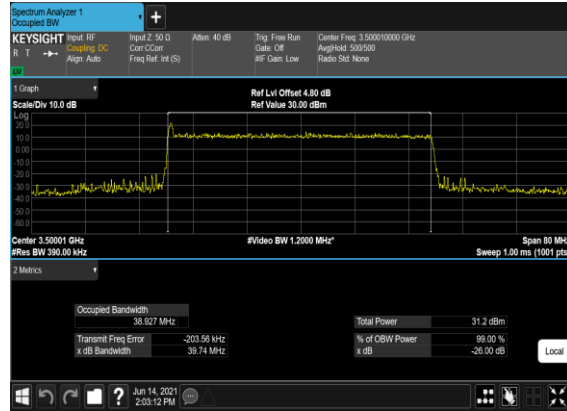
B4_N78(20M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



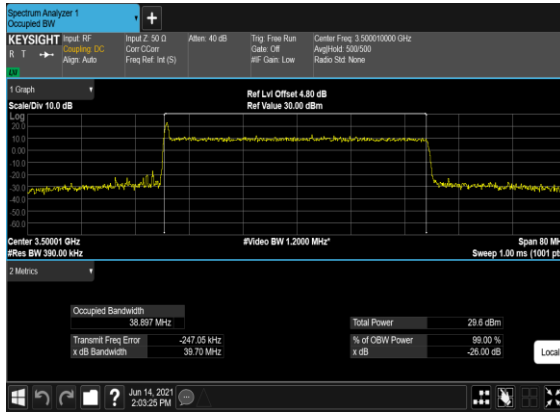
B4_N78(40M)_DFT-s-OFDM_PI_2- BPSK_Outer_Full_Mid_CH



B4_N78(40M)_DFT-s- OFDM_QPSK_Outer_Full_Mid_CH



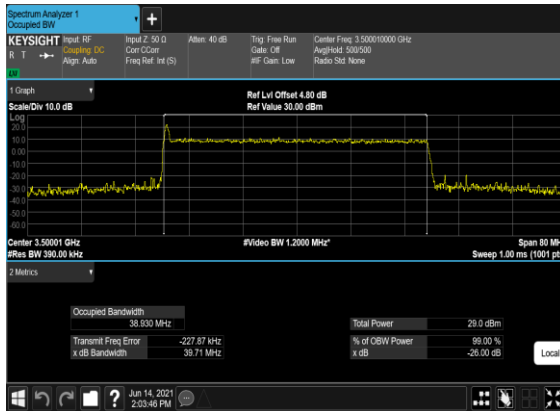
B4_N78(40M)_CP- OFDM_QPSK_Outer_Full_Mid_CH



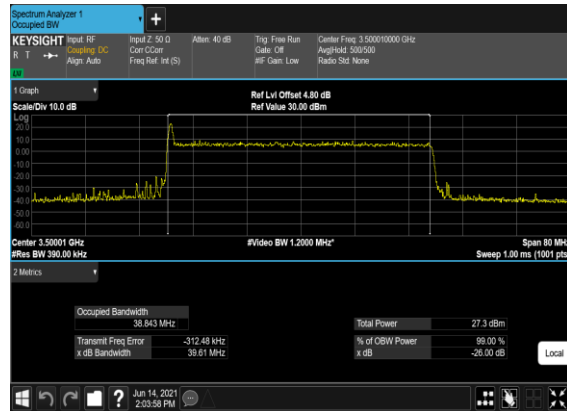
B4_N78(40M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



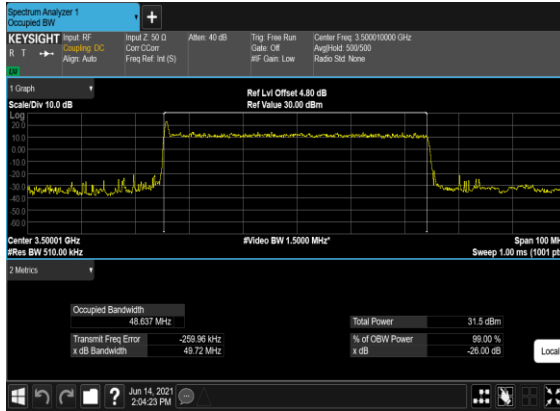
B4_N78(40M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



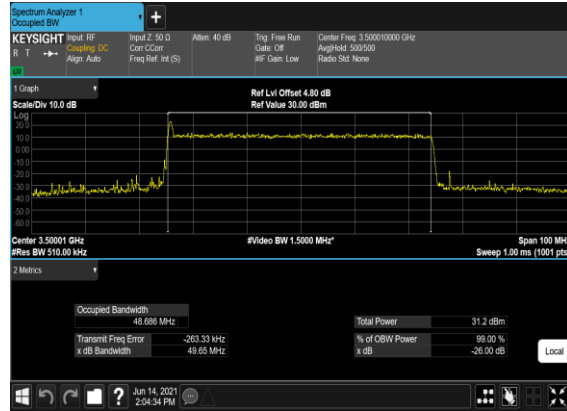
B4_N78(40M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



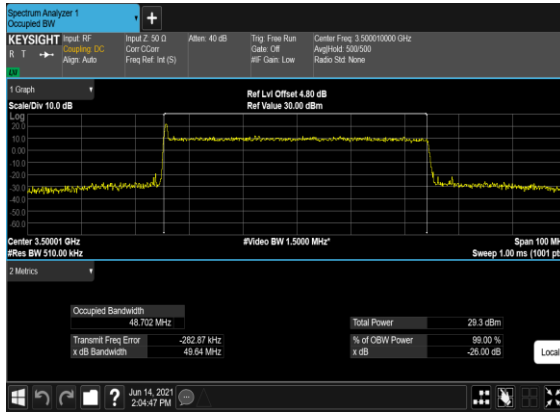
B4_N78(50M)_DFT-s-OFDM_PI_2- BPSK_Outer_Full_Mid_CH



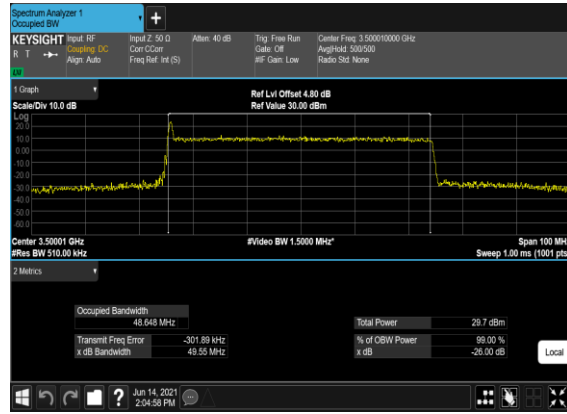
B4_N78(50M)_DFT-s- OFDM_QPSK_Outer_Full_Mid_CH



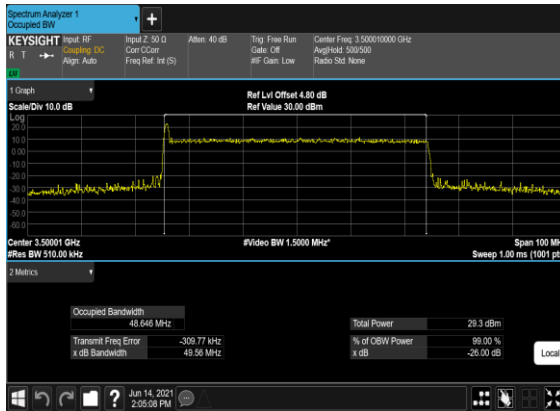
B4_N78(50M)_CP- OFDM_QPSK_Outer_Full_Mid_CH



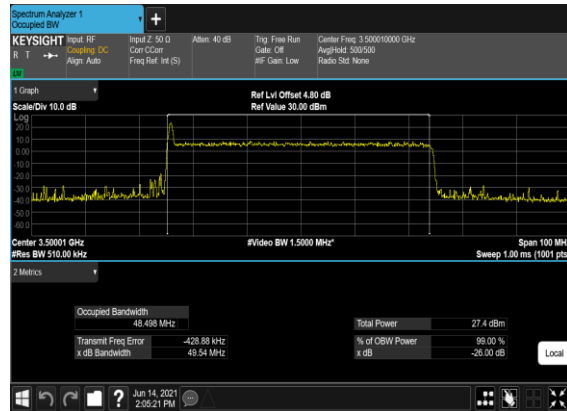
B4_N78(50M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



B4_N78(50M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



B4_N78(50M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



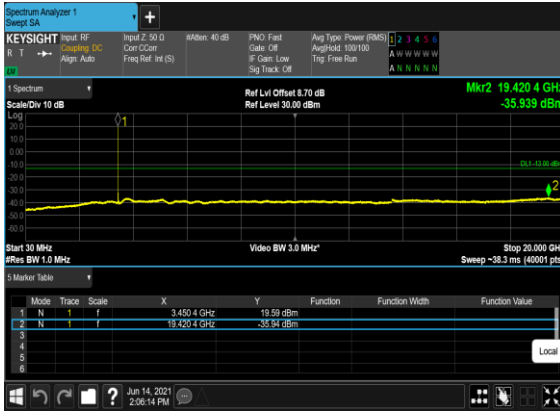
Conducted Spurious Emissions

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
78	15	10	630334	3455.01	DFT-s-OFDM BPSK	1@0	see graph	---
78	15	10	630334	3455.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	15	10	630334	3455.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	15	10	630334	3455.01	DFT-s-OFDM QPSK	1@0	see graph	---
78	15	10	630334	3455.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	15	10	630334	3455.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	15	10	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	---
78	15	10	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	15	10	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	15	10	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	---
78	15	10	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	15	10	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	15	10	636333	3544.99	DFT-s-OFDM BPSK	1@0	see graph	---
78	15	10	636333	3544.99	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	15	10	636333	3544.99	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	15	10	636333	3544.99	DFT-s-OFDM QPSK	1@0	see graph	---
78	15	10	636333	3544.99	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	15	10	636333	3544.99	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	15	20	630667	3460.01	DFT-s-OFDM BPSK	1@0	see graph	---
78	15	20	630667	3460.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	15	20	630667	3460.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	15	20	630667	3460.01	DFT-s-OFDM QPSK	1@0	see graph	---

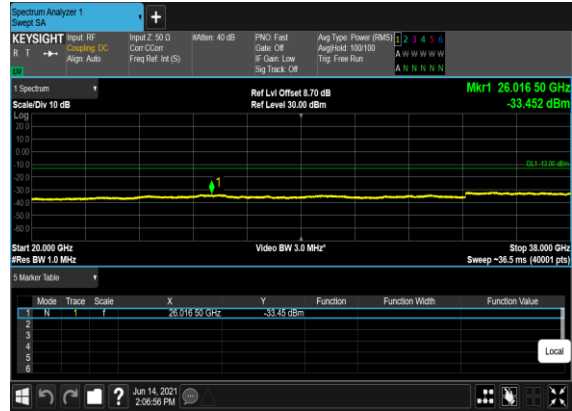
78	15	20	630667	3460.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	15	20	630667	3460.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	15	20	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	---
78	15	20	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	15	20	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	15	20	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	---
78	15	20	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	15	20	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	15	20	636000	3540.0	DFT-s-OFDM BPSK	1@0	see graph	---
78	15	20	636000	3540.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	15	20	636000	3540.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	15	20	636000	3540.0	DFT-s-OFDM QPSK	1@0	see graph	---
78	15	20	636000	3540.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	15	20	636000	3540.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	15	50	631667	3475.01	DFT-s-OFDM BPSK	1@0	see graph	---
78	15	50	631667	3475.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	15	50	631667	3475.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	15	50	631667	3475.01	DFT-s-OFDM QPSK	1@0	see graph	---
78	15	50	631667	3475.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	15	50	631667	3475.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	15	50	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	---
78	15	50	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	15	50	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	15	50	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	---

78	15	50	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	15	50	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	15	50	635000	3525.0	DFT-s-OFDM BPSK	1@0	see graph	---
78	15	50	635000	3525.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	15	50	635000	3525.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	15	50	635000	3525.0	DFT-s-OFDM QPSK	1@0	see graph	---
78	15	50	635000	3525.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	15	50	635000	3525.0	DFT-s-OFDM QPSK	1@0	see graph	PASS

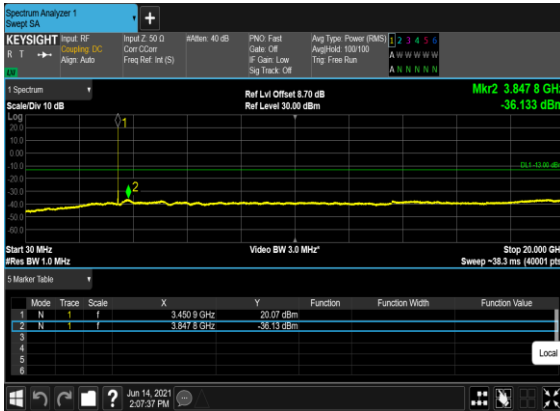
B4_N78(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



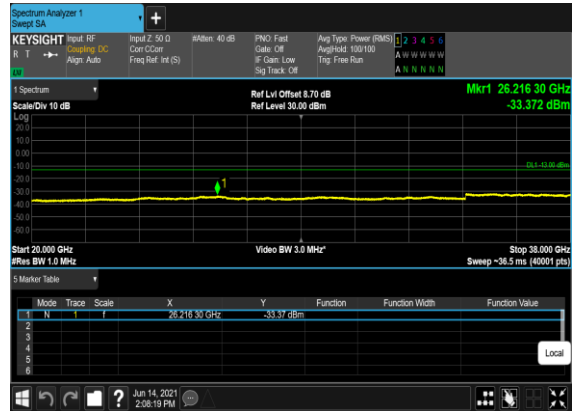
B4_N78(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



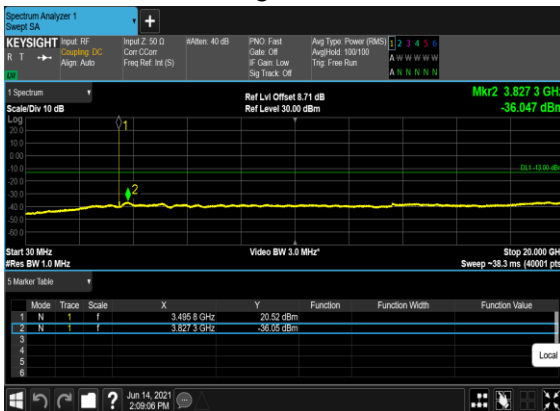
B4_N78(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



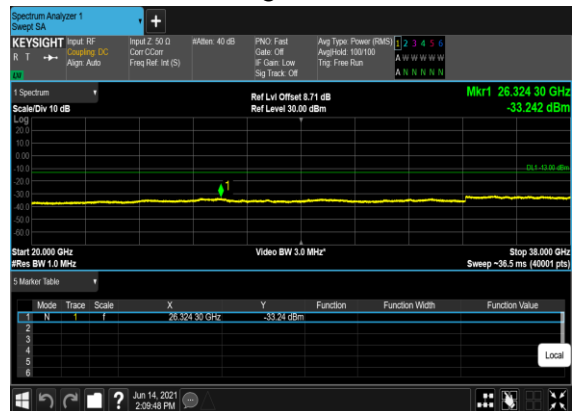
B4_N78(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



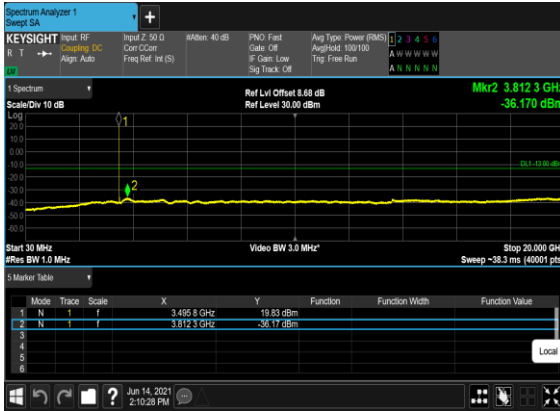
B4_N78(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



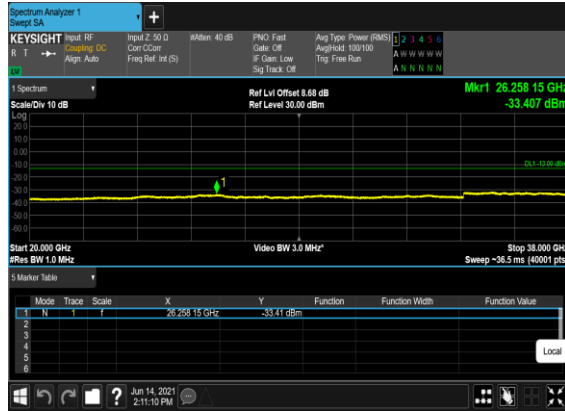
B4_N78(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



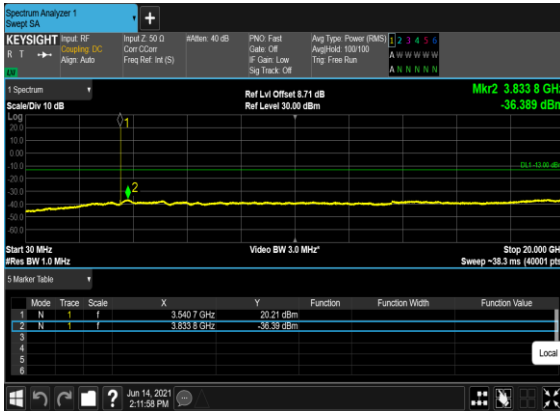
B4_N78(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



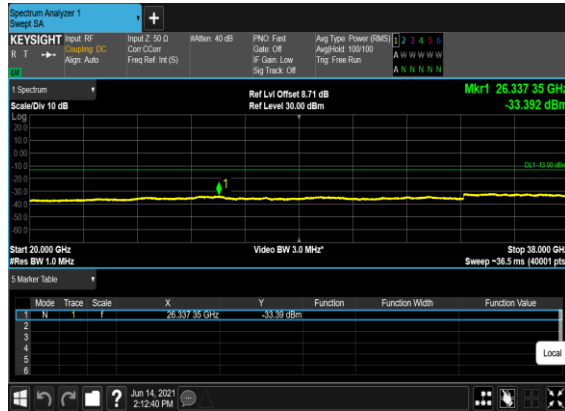
B4_N78(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



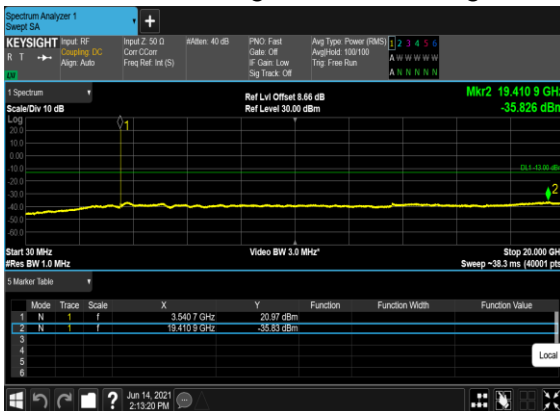
B4_N78(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



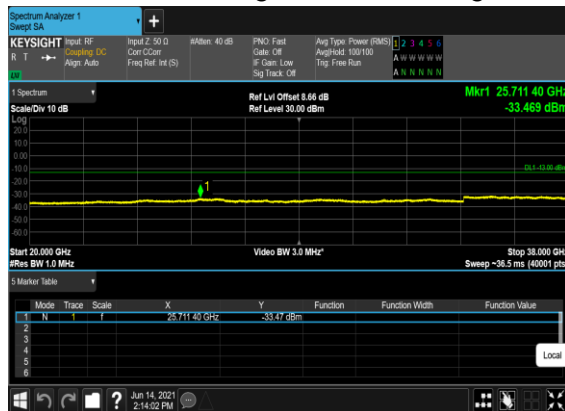
B4_N78(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



B4_N78(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



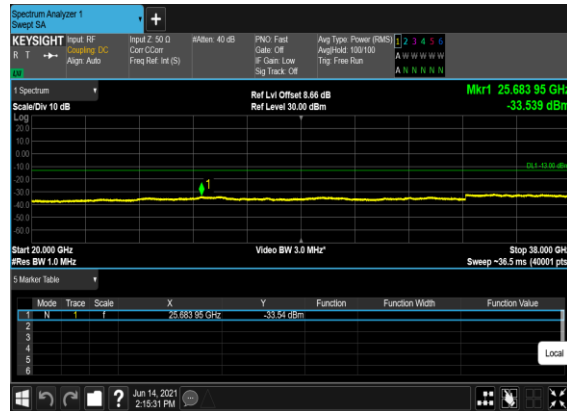
B4_N78(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



B4_N78(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



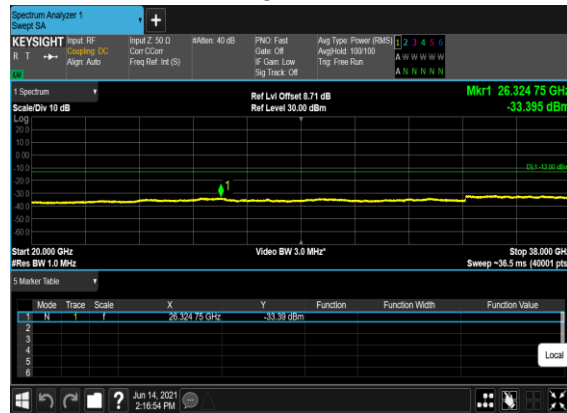
B4_N78(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



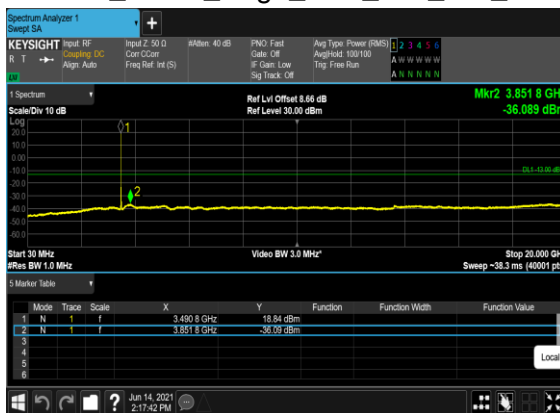
B4_N78(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



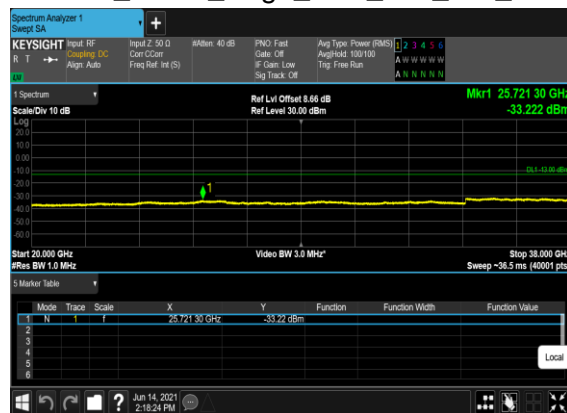
B4_N78(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



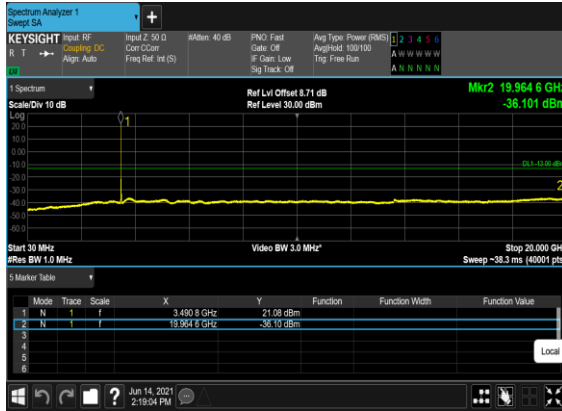
B4_N78(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



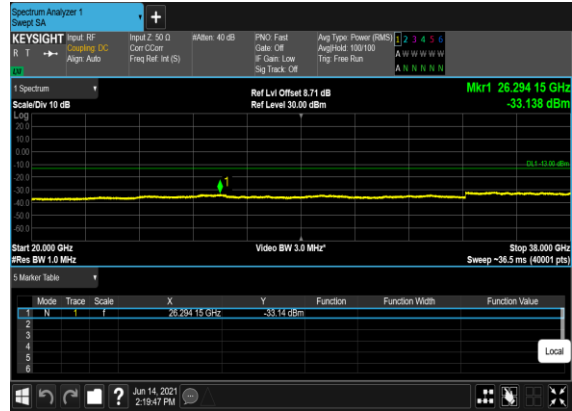
B4_N78(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



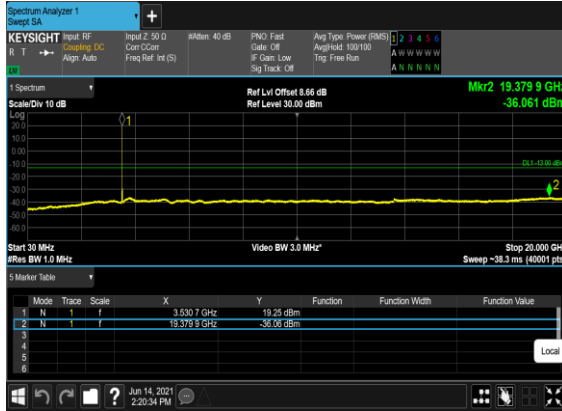
B4_N78(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



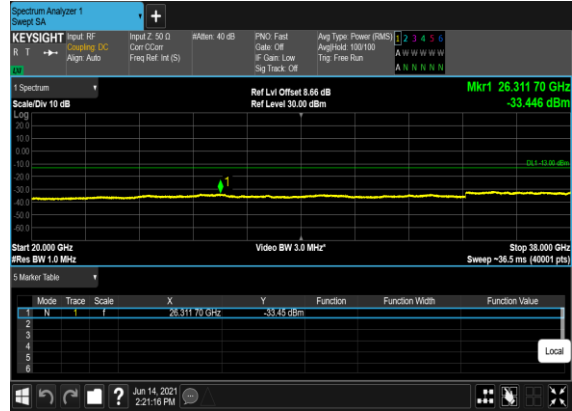
B4_N78(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



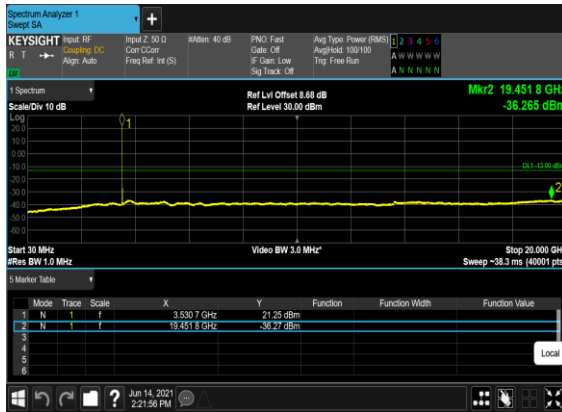
B4_N78(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



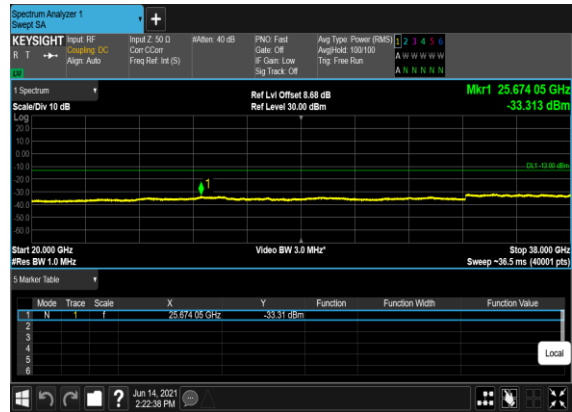
B4_N78(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



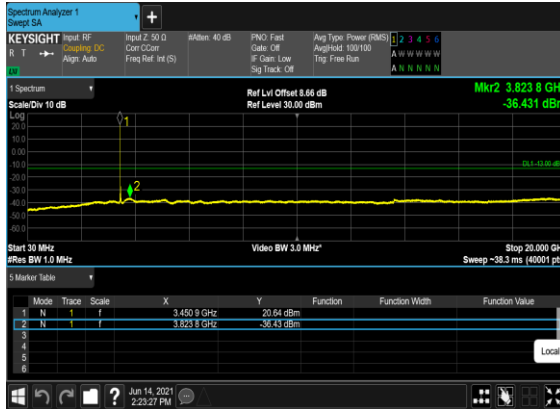
B4_N78(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



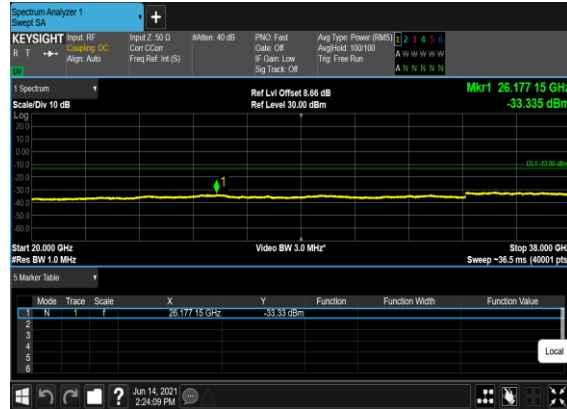
B4_N78(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



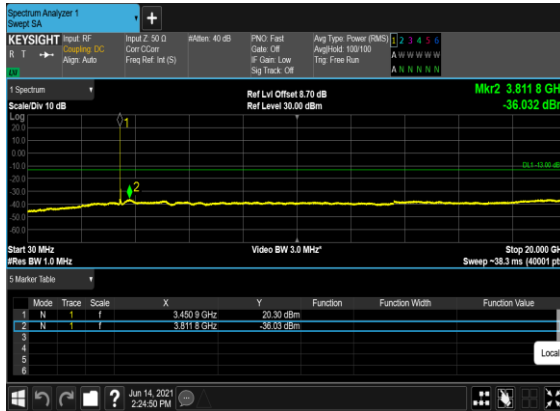
B4_N78(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



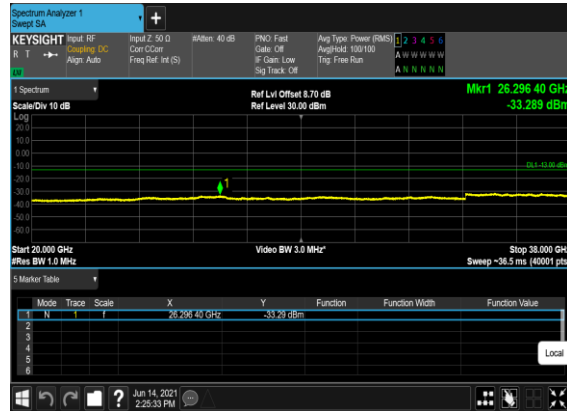
B4_N78(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



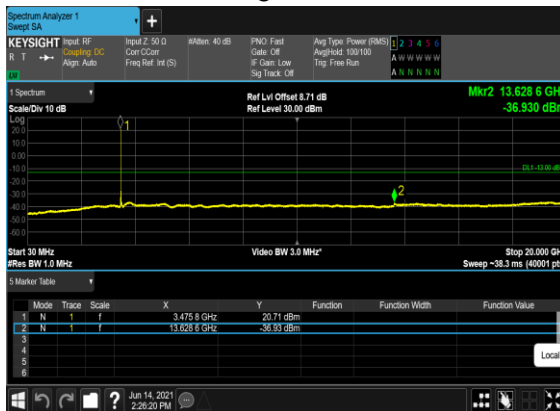
B4_N78(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



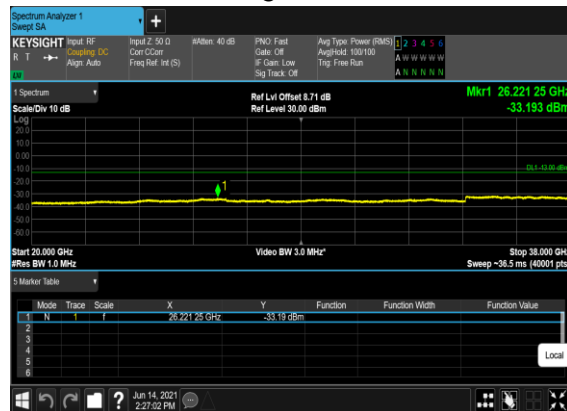
B4_N78(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



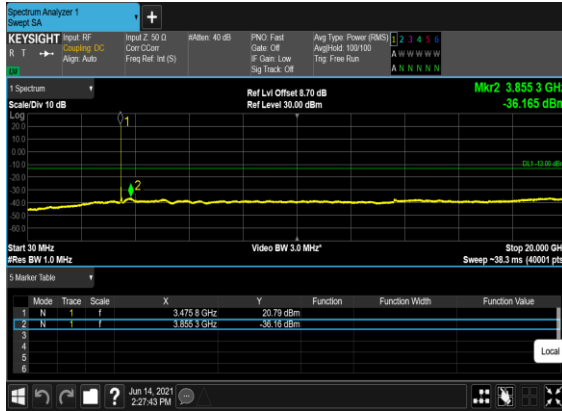
B4_N78(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



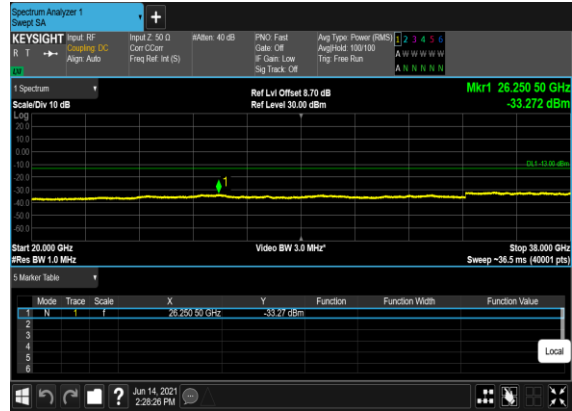
B4_N78(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



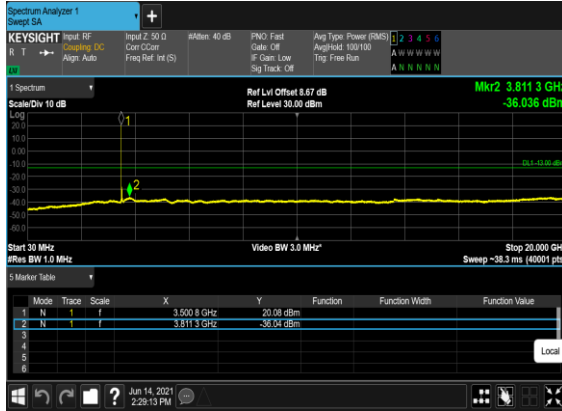
B4_N78(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



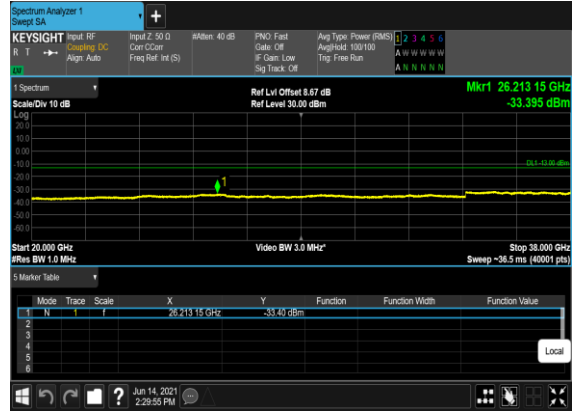
B4_N78(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



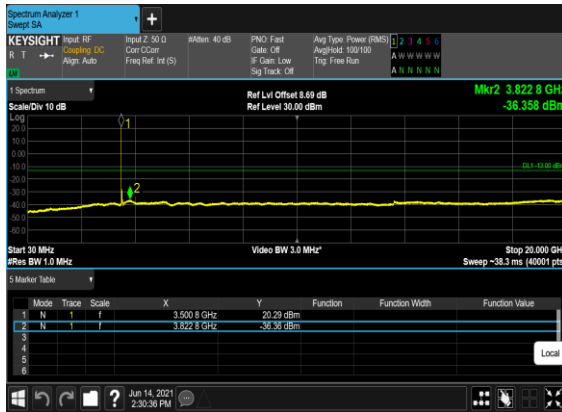
B4_N78(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



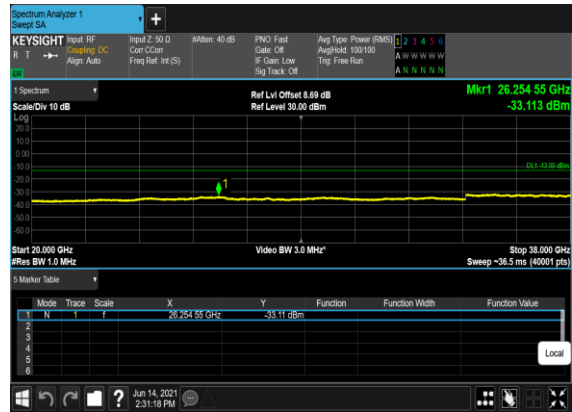
B4_N78(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



B4_N78(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



B4_N78(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH

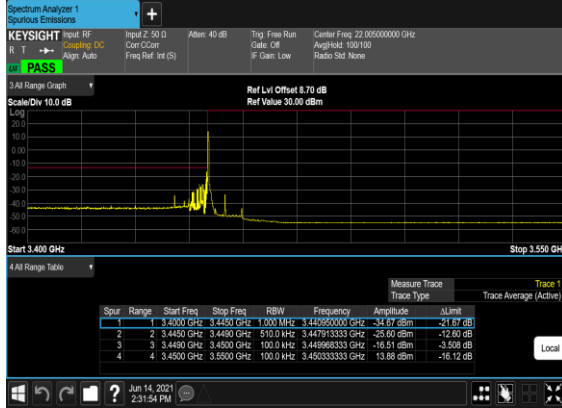


Conducted Band Edge

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
78	15	10	630334	3455.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	15	10	630334	3455.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	15	10	630334	3455.01	DFT-s-OFDM BPSK	50@0	see graph	PASS
78	15	10	630334	3455.01	DFT-s-OFDM QPSK	50@0	see graph	PASS
78	15	10	636333	3544.99	DFT-s-OFDM BPSK	1@51	see graph	PASS
78	15	10	636333	3544.99	DFT-s-OFDM QPSK	1@51	see graph	PASS
78	15	10	636333	3544.99	DFT-s-OFDM BPSK	50@0	see graph	PASS
78	15	10	636333	3544.99	DFT-s-OFDM QPSK	50@0	see graph	PASS
78	15	20	630667	3460.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	15	20	630667	3460.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	15	20	630667	3460.01	DFT-s-OFDM BPSK	100@0	see graph	PASS
78	15	20	630667	3460.01	DFT-s-OFDM QPSK	100@0	see graph	PASS
78	15	20	636000	3540.0	DFT-s-OFDM BPSK	1@105	see graph	PASS
78	15	20	636000	3540.0	DFT-s-OFDM QPSK	1@105	see graph	PASS
78	15	20	636000	3540.0	DFT-s-OFDM BPSK	100@0	see graph	PASS
78	15	20	636000	3540.0	DFT-s-OFDM QPSK	100@0	see graph	PASS
78	15	50	631667	3475.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	15	50	631667	3475.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	15	50	631667	3475.01	DFT-s-OFDM BPSK	270@0	see graph	PASS
78	15	50	631667	3475.01	DFT-s-OFDM QPSK	270@0	see graph	PASS
78	15	50	635000	3525.0	DFT-s-OFDM BPSK	1@269	see graph	PASS
78	15	50	635000	3525.0	DFT-s-OFDM QPSK	1@269	see graph	PASS

78	15	50	635000	3525.0	DFT-s-OFDM BPSK	270@0	see graph	PASS
78	15	50	635000	3525.0	DFT-s-OFDM QPSK	270@0	see graph	PASS

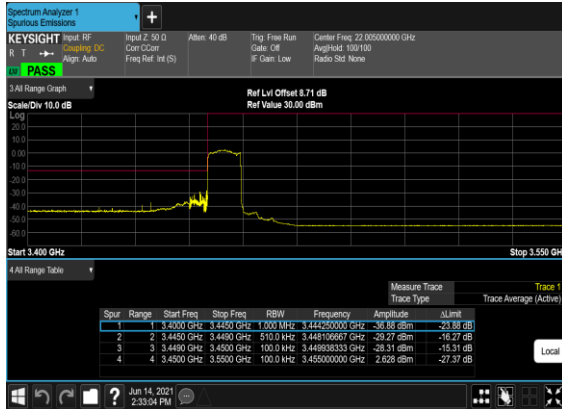
B4_N78(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



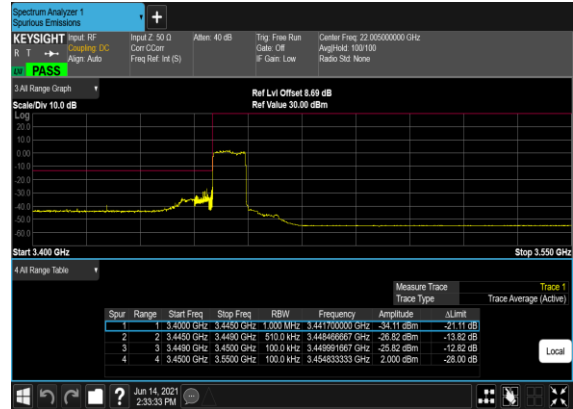
B4_N78(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



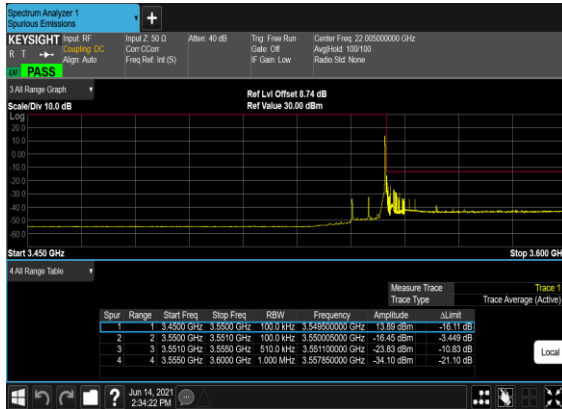
B4_N78(10M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH



B4_N78(10M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



B4_N78(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH



B4_N78(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH

