



FCC RF Test Report

APPLICANT : OnePlus Technology (Shenzhen) Co., Ltd
EQUIPMENT : Smart Phone
BRAND NAME : ONEPLUS
MODEL NAME : IN2017
FCC ID : 2ABZ2-EE103
STANDARD : 47 CFR Part 2, 22, 24, 27
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)

The product was received on Nov. 20, 2019 and completely tested on Feb. 24, 2020. We, Sporton International (ShenZhen) 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.

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

Reviewed by: Derreck Chen / Supervisor

Approved by: Eric Shih / Manager



Sporton International (ShenZhen) Inc.

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People's Republic of China



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG9N2025-01F	Rev. 01	Initial issue of report	Mar. 06, 2020

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	Reporting Only	PASS	-
	§22.913(a)(5)	Effective Radiated Power (5G NR n5)	ERP < 7 Watt		
	§27.50(c)(10)	Effective Radiated Power (5G NR n71)	ERP < 3 Watt		
	§24.232(c) §27.50(h)(2)	Equivalent Isotropic Radiated Power (5G NR n2) (5G NR n41)	EIRP < 2Watt		
	§27.50(d)(4)	Equivalent Isotropic Radiated Power (5G NR n66)	EIRP < 1Watt		
3.5	§24.232(d)	Peak-to-Average Ratio	<13 dB	PASS	-
3.6	§2.1049	Occupied Bandwidth	Reporting Only	PASS	-
3.7	§2.1051 §22.917(a) §24.238(a) §27.53(g)	Conducted Band Edge Measurement (5G NR n2) (5G NR n5) (5G NR n66) (5G NR n71)	< 43+10log ₁₀ (P[Watts])	PASS	-
	§27.53(m)(4)	Conducted Band Edge Measurement (5G NR n41)	§27.53(m)(4)		
3.8	§2.1051 §22.917(a) §24.238(a) §27.53(g)	Conducted Spurious Emission (5G NR n2) (5G NR n5) (5G NR n66) (5G NR n71)	< 43+10log ₁₀ (P[Watts])	PASS	-
	§2.1051 §27.53(m)(4)	Conducted Spurious Emission (5G NR n41)	< 55+10log ₁₀ (P[Watts])		
3.9	§2.1055 §22.355	Frequency Stability Temperature & Voltage	< 2.5 ppm for Part 22	PASS	-
	§2.1055 §24.235 §27.54		Within Authorized Band		
4.4	§2.1053 §22.917(a) §24.238(a) §27.53(g)	Radiated Spurious Emission (5G NR n2) (5G NR n5) (5G NR n66) (5G NR n71)	< 43+10log ₁₀ (P[Watts])	PASS	Under limit 27.81 dB at 10754.400 MHz
	§2.1053 §27.53(m)(4)	Radiated Spurious Emission (5G NR n41)	< 55+10log ₁₀ (P[Watts])		



1 General Description

1.1 Applicant

OnePlus Technology (Shenzhen) Co., Ltd

18C02, 18C03, 18C04 and 18C05, Shum Yip Terra Building, Binhe Avenue North, Futian District, Shenzhen

1.2 Manufacturer

OnePlus Technology (Shenzhen) Co., Ltd

18C02, 18C03, 18C04 and 18C05, Shum Yip Terra Building, Binhe Avenue North, Futian District, Shenzhen

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Smart Phone
Brand Name	ONEPLUS
Model Name	IN2017
FCC ID	2ABZ2-EE103
EUT supports Radios application	CDMA/GSM/WCDMA/LTE/5G NR WLAN 2.4GHz 802.11b/g/n (HT20) WLAN 2.4GHz 802.11ax (HE20/HE40) WLAN 5GHz 802.11a/n/ac (HT20/HT40/VHT20/VHT40/VHT80) WLAN 5GHz 802.11ax (HE20/HE40/HE80) Bluetooth BR / EDR / LE GNSS/NFC
IMEI Code	Conducted : N/A Radiation : 001003946100065
HW Version	15
SW Version	10.5.IN55CB
EUT Stage	Production Unit

Remark:

Only 5G NR bands are tested in this report, all the other RF bands are tested in the other reports separately.



1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	5G NR n2: 1852.5 MHz ~ 1907.5 MHz 5G NR n5: 826.5 MHz ~ 846.5 MHz 5G NR n41: 2506 MHz ~ 2680 MHz 5G NR n66: 1712.5 MHz ~ 1777.5 MHz 5G NR n71: 665.5 MHz ~ 695.5MHz
Rx Frequency	5G NR n2: 1932.5 MHz ~ 1987.5 MHz 5G NR n5: 871.5 MHz ~ 891.5 MHz 5G NR n41: 2506 MHz ~ 2680 MHz 5G NR n66: 2112.5 MHz~ 2197.5 MHz 5G NR n71: 619.5 MHz ~ 649.5MHz
Bandwidth	n2, n5, n66, n71: 5MHz / 10MHz / 15MHz / 20MHz n41 : 20MHz / 40MHz / 50MHz / 60MHz / 80MHz / 90MHz / 100MHz
Maximum Output Power to Antenna	Top Antenna: EN-DC_5A_n2 : 22.38 dBm EN-DC_12A_n2 : 22.45 dBm EN-DC_2A_n5 : 22.92 dBm EN-DC_66A_n5 : 22.86 dBm EN-DC_26A_n41 : 23.06 dBm EN-DC_5A_n66 : 21.38 dBm EN-DC_12A_n66 : 21.45 dBm EN-DC_13A_n66 : 21.55 dBm EN-DC_2A_n71 : 23.32 dBm EN-DC_66A_n71 : 23.23 dBm Bottom Antenna: EN-DC_5A_n2 : 23.02 dBm EN-DC_12A_n2 : 22.91 dBm EN-DC_2A_n5 : 23.12 dBm EN-DC_66A_n5 : 23.39 dBm EN-DC_2A_n41 : 23.63 dBm EN-DC_3A_n41 : 23.96 dBm EN-DC_25A_n41 : 23.82 dBm EN-DC_26A_n41 : 23.16 dBm EN-DC_39A_n41 : 24.24 dBm EN-DC_41A_n41 : 24.95 dBm EN-DC_n41AA : 24.98 dBm EN-DC_66A_n41 : 23.71 dBm EN-DC_5A_n66 : 23.13 dBm EN-DC_12A_n66 : 23.31 dBm EN-DC_13A_n66 : 23.27 dBm EN-DC_2A_n71 : 23.46 dBm EN-DC_66A_n71 : 23.36 dBm
Antenna Gain	n2 / n5 / n41 / n66 / n71 : -2.00 dBi
Type of Modulation	CP-OFDM: QPSK / 16QAM / 64QAM / 256QAM DFT-s-OFDM: PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM

1.5 Modification of EUT

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



1.6 Maximum ERP/EIRP Power, Frequency Tolerance, and Emission Designator

5G NR n2 (EN DC_5A-n2A)		PI/2 BPSK		QPSK	
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)
5	1852.5 ~ 1907.5	4M73F9W	0.1056	4M83G7D	0.1039
10	1855.0 ~ 1905.0	9M01F9W	0.1158	9M07G7D	0.1196
20	1860.0 ~ 1900.0	17M9F9W	0.1236	17M9G7D	0.1264
Frequency Tolerance (ppm)		0.0023			

5G NR n2 (EN DC_12A-n2A)		PI/2 BPSK		QPSK	
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)
5	1852.5 ~ 1907.5	4M70F9W	0.1047	4M73G7D	0.1040
10	1855.0 ~ 1905.0	9M07F9W	0.1130	9M11G7D	0.1161
20	1860.0 ~ 1900.0	17M9F9W	0.1201	17M9G7D	0.1235
Frequency Tolerance (ppm)		-			

5G NR n5 (EN DC_66A-n5A)		PI/2 BPSK		QPSK	
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Maximum ERP(W)	Emission Designator (99%OBW)	Maximum ERP(W)
5	826.5 ~ 846.5	4M77F9W	0.1144	4M69G7D	0.1138
10	829.0 ~ 844.0	9M07F9W	0.1277	9M03G7D	0.1289
20	834.0 ~ 839.0	18M1F9W	0.1348	18M1G7D	0.1377
Frequency Tolerance (ppm)		-			

5G NR n5 (EN DC_2A-n5A)		PI/2 BPSK		QPSK	
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Maximum ERP(W)	Emission Designator (99%OBW)	Maximum ERP(W)
5	826.5 ~ 846.5	4M79F9W	0.1148	4M71G7D	0.1154
10	829.0 ~ 844.0	9M19F9W	0.1286	9M11G7D	0.1294
20	834.0 ~ 839.0	18M1F9W	0.1294	17M9G7D	0.1245
Frequency Tolerance (ppm)		0.0023			



5G NR n41 (EN DC_2A-n41A)		PI/2 BPSK		QPSK	
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)
20	2506.02 ~ 2679.99	17M8F9W	0.1296	17M9G7D	0.1318
60	2526.00 ~ 2659.98	58M4F9W	0.1349	58M4G7D	0.1398
100	2546.01 ~ 2640.00	96M5F9W	0.1429	96M5G7D	0.1457
Frequency Tolerance (ppm)		0.0023			

5G NR n41 (EN DC_3A-n41A)		PI/2 BPSK		QPSK	
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)
20	2506.02 ~ 2679.99	18M0F9W	0.1352	17M9G7D	0.1383
60	2526.00 ~ 2659.98	57M9F9W	0.1423	58M1G7D	0.1450
100	2546.01 ~ 2640.00	96M7F9W	0.1529	96M9G7D	0.1572
Frequency Tolerance (ppm)		-			

5G NR n41 (EN DC_25A-n41A)		PI/2 BPSK		QPSK	
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)
20	2506.02 ~ 2679.99	18M0F9W	0.1315	17M9G7D	0.1303
60	2526.00 ~ 2659.98	58M1F9W	0.1422	58M0G7D	0.1404
100	2546.01 ~ 2640.00	97M1F9W	0.1520	96M5G7D	0.1510
Frequency Tolerance (ppm)		-			

5G NR n41 (EN DC_26A-n41A)		PI/2 BPSK		QPSK	
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)
20	2506.02 ~ 2679.99	17M9F9W	0.1202	17M9G7D	0.1181
60	2526.00 ~ 2659.98	58M3F9W	0.1190	58M0G7D	0.1217
100	2546.01 ~ 2640.00	96M9F9W	0.1307	96M5G7D	0.1287
Frequency Tolerance (ppm)		-			



5G NR n41 (EN DC_39A-n41A)		PI/2 BPSK		QPSK	
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)
20	2506.02 ~ 2679.99	18M0F9W	0.1258	18M0G7D	0.1260
60	2526.00 ~ 2659.98	58M3F9W	0.1566	58M1G7D	0.1548
100	2546.01 ~ 2640.00	96M7F9W	0.1669	96M3G7D	0.1673
Frequency Tolerance (ppm)		-			

5G NR n41 (EN DC_41A-n41A)		PI/2 BPSK		QPSK	
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)
20	2506.02 ~ 2679.99	17M9F9W	0.1975	17M9G7D	0.1951
60	2526.00 ~ 2659.98	58M4F9W	0.1969	57M9G7D	0.1841
100	2546.01 ~ 2640.00	96M3F9W	0.1911	96M3G7D	0.1900
Frequency Tolerance (ppm)		-			

5G NR n41 (EN DC_n41AA)		PI/2 BPSK		QPSK	
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)
20	2506.02 ~ 2679.99	37M9F9W	0.1960	37M8G7D	0.1981
60	2526.00 ~ 2659.98	77M4F9W	0.1931	77M6G7D	0.1988
100	2546.01 ~ 2640.00	117MF9W	0.1925	117MG7D	0.1868
Frequency Tolerance (ppm)		-			

5G NR n41 (EN DC_66A-n41A)		PI/2 BPSK		QPSK	
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)
20	2506.02 ~ 2679.99	17M9F9W	0.1258	17M9G7D	0.1255
60	2526.00 ~ 2659.98	58M3F9W	0.1352	57M8G7D	0.1376
100	2546.01 ~ 2640.00	96M3F9W	0.1465	96M9G7D	0.1482
Frequency Tolerance (ppm)		-			



5G NR n66 (EN DC_5A-n66A)		PI/2 BPSK		QPSK	
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)
5	1712.5 ~ 1777.5	4M70F9W	0.1125	4M77G7D	0.1122
10	1715.0 ~ 1775.0	9M03F9W	0.1271	9M07G7D	0.1281
20	1720.0 ~ 1770.0	17M9F9W	0.1247	17M9G7D	0.1297
Frequency Tolerance (ppm)		0.0023			

5G NR n66 (EN DC_12A-n66A)		PI/2 BPSK		QPSK	
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)
5	1712.5 ~ 1777.5	4M78F9W	0.1152	4M72G7D	0.1145
10	1715.0 ~ 1775.0	9M05F9W	0.1284	9M39G7D	0.1303
20	1720.0 ~ 1770.0	18M0F9W	0.1345	17M9G7D	0.1354
Frequency Tolerance (ppm)		-			

5G NR n66 (EN DC_13A-n66A)		PI/2 BPSK		QPSK	
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)
5	1712.5 ~ 1777.5	4M72F9W	0.1132	4M71G7D	0.1145
10	1715.0 ~ 1775.0	9M17F9W	0.1316	9M19G7D	0.1341
20	1720.0 ~ 1770.0	17M9F9W	0.1289	18M0G7D	0.1331
Frequency Tolerance (ppm)		-			



5G NR n71 (EN DC_2A-n71A)		PI/2 BPSK		QPSK	
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Maximum ERP(W)	Emission Designator (99%OBW)	Maximum ERP(W)
5	665.5 ~ 695.5	4M73F9W	0.1192	4M81G7D	0.1186
10	668.0 ~ 693.0	9M05F9W	0.1319	9M17G7D	0.1356
20	673.0 ~ 688.0	17M9F9W	0.1366	17M9G7D	0.1399
Frequency Tolerance (ppm)		0.0023			

5G NR n71 (EN DC_66A-n71A)		PI/2 BPSK		QPSK	
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Maximum ERP(W)	Emission Designator (99%OBW)	Maximum ERP(W)
5	665.5 ~ 695.5	4M69F9W	0.1187	4M67G7D	0.1194
10	668.0 ~ 693.0	9M05F9W	0.1336	9M09G7D	0.1365
20	673.0 ~ 688.0	17M9F9W	0.1368	17M9G7D	0.1359
Frequency Tolerance (ppm)		-			

1.7 Testing Location

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 Firm	Sporton International (Shenzhen) Inc.		
Test Site Location	No. 3 Bldg the third floor of south, Shahe River west, Fengzeyuan Warehouse, Nanshan Shenzhen, 518055 People's Republic of China TEL: +86-755-33202398		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	03CH02-SZ	CN1256	421272

1.8 Test Software

Item	Site	Manufacture	Name	Version
1.	03CH02-SZ	AUDIX	E3	6.2009-8-24a

1.9 Applicable Standards

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

- ♦ 47 CFR Part 2, 22, 24, 27
- ♦ ANSI C63.26-2015
- ♦ FCC KDB 971168 D01 Power Meas License Digital Systems v03r01
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01

Remark:

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

2 Test Configuration of Equipment Under Test

2.1 Test Mode

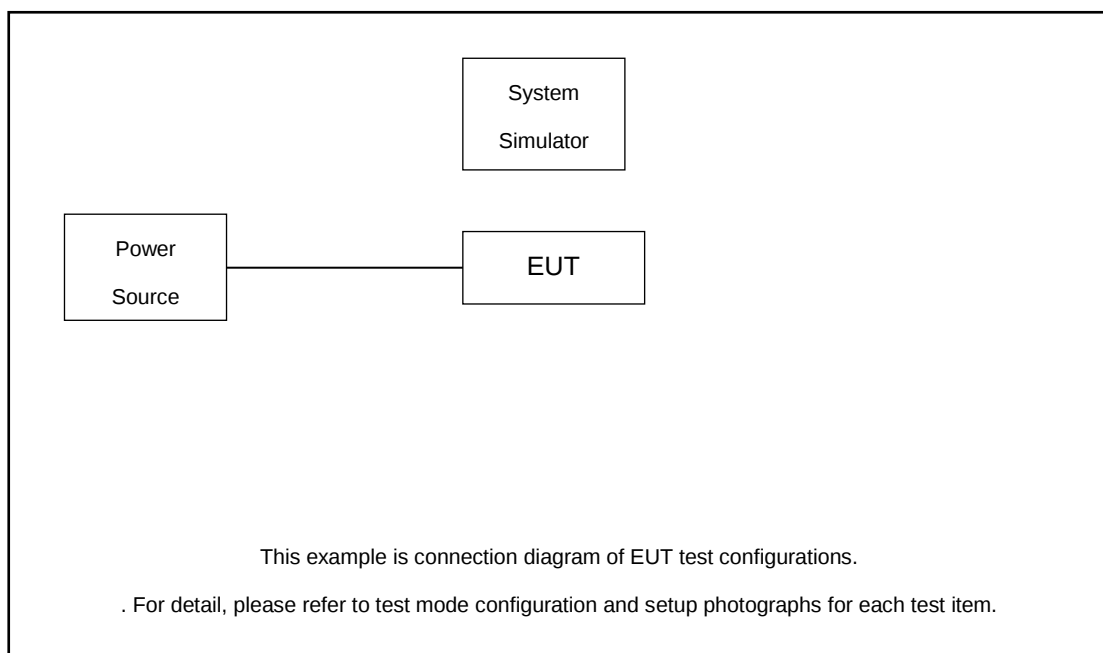
Antenna port conducted and radiated test items are performed according to KDB 971168 D01 Power Meas License Digital Systems v03r01 with maximum output power.

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

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

	X Plane	Y Plane	Z Plane
Orthogonal Planes of EUT			

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.	DC Power Supply	GW	GPS-3030D	N/A	N/A	Unshielded, 1.8 m
2.	LTE Base Station	Anritsu	MT8821C	N/A	N/A	Unshielded, 1.8 m
3.	NR Base Station	Anritsu	MT8000A	N/A	N/A	Unshielded, 1.8 m
4.	Fixture	INTEL	NGFF Card Carrier	N/A	N/A	N/A

2.4 Measurement Results Explanation Example

For all conducted test items:

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

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

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 5.2 dB and 10dB attenuator.

Example :

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

$$= 5.2 + 10 = 15.2 \text{ (dB)}$$

2.5 Frequency List of Low/Middle/High Channels

5G NR n2 Channel and Frequency List				
NR Bandwidth (MHz)	LTE Bandwidth (MHz)	Channel	NR Frequency (MHz)	LTE Frequency (MHz)
20	10	Low	1860	829
		Mid.	1880	836.5
		High	1900	844
10	10	Low	1855	829
		Mid.	1880	836.5
		High	1905	844
5	10	Low	1852.5	829
		Mid.	1880	836.5
		High	1907.5	844

5G NR n5 Channel and Frequency List				
NR Bandwidth (MHz)	LTE Bandwidth (MHz)	Channel	NR Frequency (MHz)	LTE Frequency (MHz)
20	20	Low	834	1860
		Mid.	836.5	1880
		High	839	1900
10	20	Low	829	1860
		Mid.	836.5	1880
		High	844	1900
5	20	Low	826.5	1860
		Mid.	836.5	1880
		High	846.5	1900

5G NR n41 Channel and Frequency List				
NR Bandwidth (MHz)	LTE Bandwidth (MHz)	Channel	NR Frequency (MHz)	LTE Frequency (MHz)
100	20	Low	2546.01	1860
		Mid.	2592.99	1880
		High	2640	1900
60	20	Low	2526	1860
		Mid.	2592.99	1880
		High	2659.98	1900
20	20	Low	2506.02	1860
		Mid.	2592.99	1880
		High	2679.99	1900

5G NR n66 Channel and Frequency List				
NR Bandwidth (MHz)	LTE Bandwidth (MHz)	Channel	NR Frequency (MHz)	LTE Frequency (MHz)
20	10	Low	1720	829
		Mid.	1745	836.5
		High	1770	844
10	10	Low	1715	829
		Mid.	1745	836.5
		High	1775	844
5	10	Low	1712.5	829
		Mid.	1745	836.5
		High	1777.5	844



5G NR n71 Channel and Frequency List				
NR Bandwidth (MHz)	LTE Bandwidth (MHz)	Channel	NR Frequency (MHz)	LTE Frequency (MHz)
20	20	Low	673	1860
		Mid.	680.5	1880
		High	688	1900
10	20	Low	668	1860
		Mid.	680.5	1880
		High	693	1900
5	20	Low	665.5	1860
		Mid.	680.5	1880
		High	695.5	1900

3 Conducted Test Items

3.1 Measuring Instruments

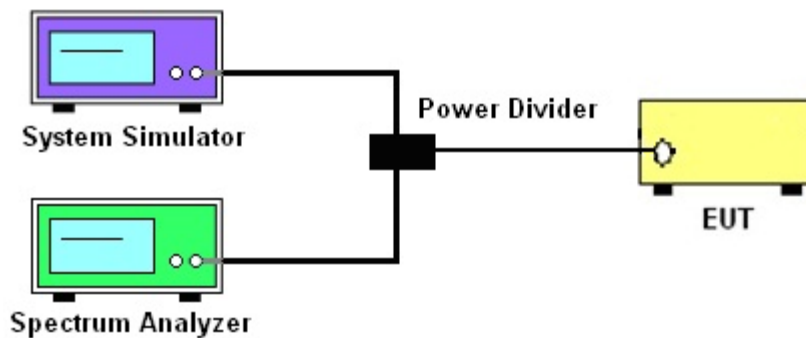
See list of measuring instruments of this test report.

3.2 Test Setup

3.2.1 Conducted Output Power



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



3.2.3 Frequency Stability



3.3 Test Result of Conducted Test

Please refer to Appendix A.

3.4 Conducted Output Power and ERP/EIRP

3.4.1 Description of the Conducted Output Power Measurement and ERP/EIRP Measurement

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

The ERP of mobile transmitters must not exceed 7 Watts for 5G NR n5.

The ERP of mobile transmitters must not exceed 3 Watts for 5G NR n71.

The EIRP of mobile transmitters must not exceed 2 Watts for 5G NR n2 and n41.

The EIRP of mobile transmitters must not exceed 1 Watts for 5G NR n66.

According to KDB 412172 D01 Power Approach,

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

P_T = transmitter output power in dBm

G_T = gain of the transmitting antenna in dBi

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

3.4.2 Test Procedures

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

3.5 Peak-to-Average Ratio

3.5.1 Description of the PAR Measurement

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

3.5.2 Test Procedures

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

3.6 Occupied Bandwidth

3.6.1 Description of Occupied Bandwidth Measurement

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

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

3.6.2 Test Procedures

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

3.7 Conducted Band Edge

3.7.1 Description of Conducted Band Edge Measurement

22.917(a)

For operations in the 824 – 849 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 100kHz bandwidth. However, in the 1MHz 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.

24.238 (a)

For operations in the 1850-1910 and 1930-1990 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 1MHz bandwidth. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

27.53 (g)

For operations in the 600MHz band and 698 -746 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 100 kHz bandwidth. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

27.53(m)(4)

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

3.7.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The band edges of low and high channels for the highest RF powers were measured.
4. Set RBW $\geq$ 1% EBW in the 1MHz band immediately outside and adjacent to the band edge.
5. Beyond the 1 MHz band from the band edge, RBW=1MHz was used.
6. Set spectrum analyzer with RMS detector.
7. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
8. Checked that all the results comply with the emission limit line.

Example:

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

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

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

9. For LTE Band 41, the other 40 dB, and 55 dB have additionally applied same calculation above.

3.8 Conducted Spurious Emission

3.8.1 Description of Conducted Spurious Emission Measurement

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

For Band 41:

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

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

3.8.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.
The path loss was compensated to the results for each measurement.
4. The middle channel for the highest RF power within the transmitting frequency was measured.
5. The conducted spurious emission for the whole frequency range was taken.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz.
7. Set spectrum analyzer with RMS detector.
8. Taking the record of maximum spurious emission.
9. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
10. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [43 + 10\log(P)]$ (dB)
 $= [30 + 10\log(P)]$ (dBm) - $[43 + 10\log(P)]$ (dB)
 $= -13$ dBm.
11. For Band 41
The limit line is derived from $55 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [55 + 10\log(P)]$ (dB)
 $= [30 + 10\log(P)]$ (dBm) - $[55 + 10\log(P)]$ (dB)
 $= -25$ dBm.

3.9 Frequency Stability

3.9.1 Description of Frequency Stability Measurement

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

3.9.2 Test Procedures for Temperature Variation

1. The testing follows ANSI C63.26 section 5.6.4
2. The EUT was set up in the thermal chamber and connected with the system simulator.
3. With power OFF, the temperature was decreased to -30°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.

3.9.3 Test Procedures for Voltage Variation

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

4 Radiated Test Items

4.1 Measuring Instruments

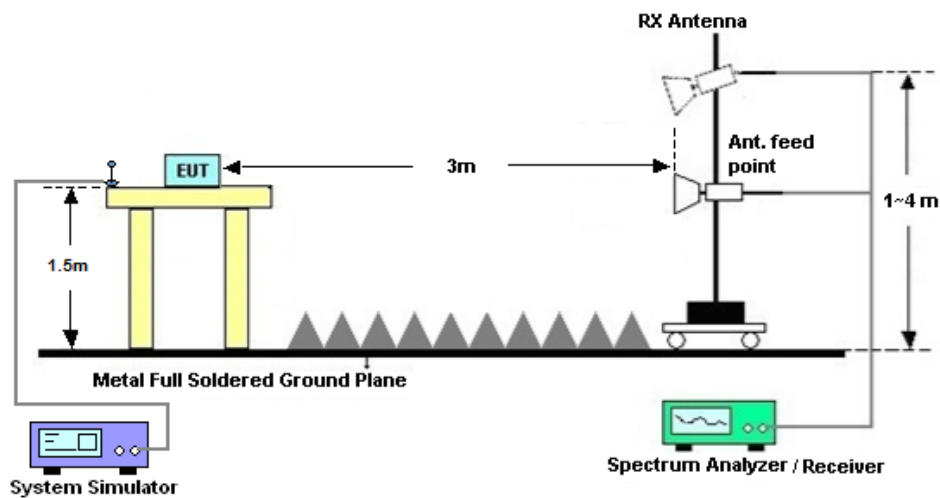
See list of measuring instruments of this test report.

4.2 Test Setup

4.2.1 For radiated test from 30MHz to 1GHz



4.2.2 For radiated test above 1GHz



4.3 Test Result of Radiated Test

Please refer to Appendix B.

4.4 Radiated Spurious Emission

4.4.1 Description of Radiated Spurious Emission

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

For Band 41

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

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

4.4.2 Test Procedures

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

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

13. For Band 41:

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



5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 18, 2019	Dec. 26, 2019~ Feb. 24, 2020	Apr. 17, 2020	Conducted (TH01-SZ)
DC Power Supply	GWINSTEK	AnritsuGPS-3030D	EM882636	Max 30V	Apr. 18, 2019	Dec. 26, 2019~ Feb. 24, 2020	Apr. 17, 2020	Conducted (TH01-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Apr. 19, 2019	Feb. 18, 2020	Apr. 18, 2020	Radiation (03CH02-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz~2GHz	Jul. 19, 2019	Feb. 18, 2020	Jul. 18, 2020	Radiation (03CH02-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1285	1GHz~18GHz	Jan. 07, 2020	Feb. 18, 2020	Jan. 06, 2021	Radiation (03CH02-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 22, 2019	Feb. 18, 2020	Jul. 21, 2020	Radiation (03CH02-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz~40GHz	Apr. 18, 2019	Feb. 18, 2020	Apr. 17, 2020	Radiation (03CH02-SZ)
LF Amplifier	Burgeon	BPA-530	102211	0.01~3000Mhz	Oct. 18, 2019	Feb. 18, 2020	Oct. 17, 2020	Radiation (03CH02-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270105	0.5GHz~26.5Ghz	Oct. 18, 2019	Feb. 18, 2020	Oct. 17, 2020	Radiation (03CH02-SZ)
AC Power Source	Chroma	61601	616010002470	N/A	NCR	Feb. 18, 2020	NCR	Radiation (03CH02-SZ)
Turn Table	Chaintek	T-200	N/A	0~360 degree	NCR	Feb. 18, 2020	NCR	Radiation (03CH02-SZ)
Antenna Mast	Chaintek	MBS-400	N/A	1 m~4 m	NCR	Feb. 18, 2020	NCR	Radiation (03CH02-SZ)

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% ($U = 2Uc(y)$)	2.5dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.3dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.7dB
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Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power and EIRP)

Bottom Antenna

EN-DC_5A_n2A												
Combination 20MHz+10MHz(LTE)												
NR Channel	NR Freq.	LTE Channel	LTE Freq.	Modulation	NR		LTE		NR Measured Power (dBm)	LTE Measured Power (dBm)	Total Measured Power (dBm)	EIRP (W)
					RB Size	RB offset	RB Size	RB offset				
372000	1860	20450	829	PI/2 BPSK DFT-s-OFDM	1	1	1	0	22.42	12.75	22.86	0.1220
					1	104	1	49	22.42	12.76	22.87	0.1221
					50	25	50	0	22.48	12.75	22.92	0.1236
				QPSK DFT-s-OFDM	1	1	1	0	22.47	12.71	22.91	0.1232
					1	104	1	49	22.48	12.73	22.92	0.1235
					50	25	50	0	22.44	12.79	22.89	0.1227
376000	1880	20525	836.5	PI/2 BPSK DFT-s-OFDM	1	1	1	0	22.1	12.6	22.56	0.1138
					1	104	1	49	22.03	12.79	22.52	0.1127
					50	25	50	0	22.17	12.69	22.63	0.1157
				QPSK DFT-s-OFDM	1	1	1	0	22.59	12.73	23.02	0.1264
					1	104	1	49	22.06	12.68	22.53	0.1131
					50	25	50	0	22.19	12.7	22.65	0.1162
380000	1900	20600	844	PI/2 BPSK DFT-s-OFDM	1	1	1	0	22.04	12.59	22.51	0.1124
					1	104	1	49	21.9	12.67	22.39	0.1094
					50	25	50	0	21.97	12.7	22.46	0.1111
				QPSK DFT-s-OFDM	1	1	1	0	22.04	12.74	22.52	0.1128
					1	104	1	49	21.88	12.69	22.37	0.1090
					50	25	50	0	22.02	12.62	22.49	0.1120



EN-DC_5A_n2A												
Combination 10MHz+10MHz(LTE)												
NR Channel	NR Freq.	LTE Channel	LTE Freq.	Modulation	NR		LTE		NR	LTE	Total	EIRP (W)
					RB Size	RB offset	RB Size	RB offset	Measured Power (dBm)	Measured Power (dBm)	Measured Power (dBm)	
371000	1855	20450	829	PI/2 BPSK DFT-s-OFDM	1	1	1	0	22.12	11.98	22.52	0.1128
					1	50	1	49	22.25	11.94	22.64	0.1158
					25	12	50	0	22.11	12	22.51	0.1126
				QPSK DFT-s-OFDM	1	1	1	0	22.03	12.02	22.44	0.1107
					1	50	1	49	22.24	11.97	22.63	0.1156
					25	12	50	0	22.13	12	22.53	0.1130
376000	1880	20525	836.5	PI/2 BPSK DFT-s-OFDM	1	1	1	0	22.17	11.9	22.56	0.1138
					1	50	1	49	22.19	11.9	22.58	0.1142
					25	12	50	0	22.17	11.93	22.56	0.1138
				QPSK DFT-s-OFDM	1	1	1	0	22.41	11.88	22.78	0.1196
					1	50	1	49	22.15	11.91	22.54	0.1133
					25	12	50	0	22.28	11.92	22.66	0.1165
381000	1905	20600	844	PI/2 BPSK DFT-s-OFDM	1	1	1	0	22	11.91	22.41	0.1098
					1	50	1	49	22.04	11.9	22.44	0.1107
					25	12	50	0	22.11	11.94	22.51	0.1124
				QPSK DFT-s-OFDM	1	1	1	0	22.04	11.94	22.44	0.1108
					1	50	1	49	22.12	11.97	22.52	0.1127
					25	12	50	0	22.05	11.93	22.45	0.1110



EN-DC_5A_n2A												
Combination 5MHz+10MHz(LTE)												
NR Channel	NR Freq.	LTE Channel	LTE Freq.	Modulation	NR		LTE		NR	LTE	Total	EIRP (W)
					RB Size	RB offset	RB Size	RB offset	Measured Power (dBm)	Measured Power (dBm)	Measured Power (dBm)	
370500	1852.5	20450	829	PI/2 BPSK DFT-s-OFDM	1	1	1	0	21.74	12.56	22.24	0.1056
					1	23	1	49	21.59	12.38	22.08	0.1019
					12	6	50	0	21.61	12.23	22.08	0.1020
				QPSK DFT-s-OFDM	1	1	1	0	21.6	12.35	22.09	0.1020
					1	23	1	49	21.69	12.32	22.17	0.1039
					12	6	50	0	21.59	12.25	22.07	0.1016
376000	1880	20525	836.5	PI/2 BPSK DFT-s-OFDM	1	1	1	0	21.61	12.65	22.13	0.1030
					1	23	1	49	21.63	12.45	22.13	0.1029
					12	6	50	0	21.66	12.5	22.16	0.1037
				QPSK DFT-s-OFDM	1	1	1	0	21.61	12.67	22.13	0.1031
					1	23	1	49	21.63	12.61	22.14	0.1033
					12	6	50	0	21.61	12.46	22.11	0.1025
381500	1907.5	20600	844	PI/2 BPSK DFT-s-OFDM	1	1	1	0	21.46	12.19	21.95	0.0988
					1	23	1	49	21.46	12.36	21.96	0.0992
					12	6	50	0	21.43	12.32	21.93	0.0985
				QPSK DFT-s-OFDM	1	1	1	0	21.49	12.3	21.98	0.0996
					1	23	1	49	21.45	12.27	21.95	0.0987
					12	6	50	0	21.42	12.21	21.91	0.0980



EN-DC_12A_n2A												
Combination 20MHz+10MHz(LTE)												
NR Channel	NR Freq.	LTE Channel	LTE Freq.	Modulation	NR		LTE		NR	LTE	Total	EIRP (W)
					RB Size	RB offset	RB Size	RB offset	Measured Power (dBm)	Measured Power (dBm)	Measured Power (dBm)	
372000	1860	23060	704	PI/2 BPSK DFT-s-OFDM	1	1	1	0	21.86	12.42	22.33	0.1078
					1	104	1	49	21.85	12.48	22.33	0.1078
					50	25	50	0	21.84	12.43	22.31	0.1074
				QPSK DFT-s-OFDM	1	1	1	0	21.93	12.43	22.39	0.1094
					1	104	1	49	21.99	12.5	22.45	0.1110
					50	25	50	0	21.91	12.48	22.38	0.1091
376000	1880	23095	707.5	PI/2 BPSK DFT-s-OFDM	1	1	1	0	21.96	12.46	22.42	0.1102
					1	104	1	49	21.86	12.45	22.33	0.1079
					50	25	50	0	21.98	12.48	22.44	0.1107
				QPSK DFT-s-OFDM	1	1	1	0	22.4	12.46	22.82	0.1208
					1	104	1	49	22.35	12.5	22.78	0.1196
					50	25	50	0	22.39	12.44	22.81	0.1205
380000	1900	23130	711	PI/2 BPSK DFT-s-OFDM	1	1	1	0	22.39	12.31	22.80	0.1201
					1	104	1	49	22.14	12.28	22.57	0.1139
					50	25	50	0	22.3	12.22	22.71	0.1177
				QPSK DFT-s-OFDM	1	1	1	0	22.51	12.41	22.91	0.1235
					1	104	1	49	22.16	12.38	22.59	0.1147
					50	25	50	0	22.34	12.38	22.76	0.1191



EN-DC_12A_n2A												
Combination 10MHz+10MHz(LTE)												
NR Channel	NR Freq.	LTE Channel	LTE Freq.	Modulation	NR		LTE		NR	LTE	Total	EIRP (W)
					RB Size	RB offset	RB Size	RB offset	Measured Power (dBm)	Measured Power (dBm)	Measured Power (dBm)	
371000	1855	23060	704	PI/2 BPSK DFT-s-OFDM	1	1	1	0	22.09	11.82	22.48	0.1117
					1	50	1	49	22.15	11.78	22.53	0.1130
					25	12	50	0	22.1	11.83	22.49	0.1119
				QPSK DFT-s-OFDM	1	1	1	0	22.13	11.82	22.52	0.1126
					1	50	1	49	22.27	11.86	22.65	0.1161
					25	12	50	0	22.15	11.88	22.54	0.1132
376000	1880	23095	707.5	PI/2 BPSK DFT-s-OFDM	1	1	1	0	21.99	11.85	22.39	0.1094
					1	50	1	49	21.97	11.85	22.37	0.1090
					25	12	50	0	21.94	11.86	22.35	0.1083
				QPSK DFT-s-OFDM	1	1	1	0	22.16	11.87	22.55	0.1135
					1	50	1	49	21.95	11.83	22.35	0.1085
					25	12	50	0	21.97	11.84	22.37	0.1089
381000	1905	23130	711	PI/2 BPSK DFT-s-OFDM	1	1	1	0	21.96	11.71	22.35	0.1084
					1	50	1	49	22	11.66	22.38	0.1092
					25	12	50	0	22.08	11.65	22.46	0.1111
				QPSK DFT-s-OFDM	1	1	1	0	22.09	11.66	22.47	0.1113
					1	50	1	49	22.01	11.7	22.40	0.1096
					25	12	50	0	22.04	11.66	22.42	0.1102



EN-DC_12A_n2A												
Combination 5MHz+10MHz(LTE)												
NR Channel	NR Freq.	LTE Channel	LTE Freq.	Modulation	NR		LTE		NR	LTE	Total	EIRP (W)
					RB Size	RB offset	RB Size	RB offset	Measured Power (dBm)	Measured Power (dBm)	Measured Power (dBm)	
370500	1852.5	23060	704	PI/2 BPSK DFT-s-OFDM	1	1	1	0	21.66	12.3	22.14	0.1032
					1	23	1	49	21.66	12.47	22.15	0.1036
					12	6	50	0	21.71	12.47	22.20	0.1047
				QPSK DFT-s-OFDM	1	1	1	0	21.68	12.44	22.17	0.1040
					1	23	1	49	21.65	12.33	22.13	0.1030
					12	6	50	0	21.66	12.42	22.15	0.1035
376000	1880	23095	707.5	PI/2 BPSK DFT-s-OFDM	1	1	1	0	21.57	12.48	22.07	0.1017
					1	23	1	49	21.44	12.29	21.94	0.0986
					12	6	50	0	21.52	12.5	22.03	0.1008
				QPSK DFT-s-OFDM	1	1	1	0	21.4	12.26	21.90	0.0977
					1	23	1	49	21.44	12.2	21.93	0.0984
					12	6	50	0	21.45	12.38	21.96	0.0990
381500	1907.5	23130	711	PI/2 BPSK DFT-s-OFDM	1	1	1	0	21.41	12.22	21.90	0.0978
					1	23	1	49	21.44	12.13	21.92	0.0982
					12	6	50	0	21.49	12.24	21.98	0.0995
				QPSK DFT-s-OFDM	1	1	1	0	21.45	12.12	21.93	0.0984
					1	23	1	49	21.44	12.14	21.92	0.0982
					12	6	50	0	21.46	12.23	21.95	0.0989



EN-DC_2A_n5A												
Combination 20MHz+20MHz(LTE)												
NR Channel	NR Freq.	LTE Channel	LTE Freq.	Modulation	NR		LTE		NR	LTE	Total	ERP (W)
					RB Size	RB offset	RB Size	RB offset	Measured Power (dBm)	Measured Power (dBm)	Measured Power (dBm)	
166800	834	18700	1860	PI/2 BPSK DFT-s-OFDM	1	1	1	0	22.31	13.07	22.80	0.1202
					1	104	1	99	22.33	13.02	22.81	0.1205
					50	25	100	0	22.32	12.98	22.80	0.1202
				QPSK DFT-s-OFDM	1	1	1	0	22.42	13.01	22.89	0.1228
					1	104	1	99	22.27	13.1	22.77	0.1193
					50	25	100	0	22.41	13.03	22.88	0.1226
167300	836.5	18900	1880	PI/2 BPSK DFT-s-OFDM	1	1	1	0	22.28	13.02	22.77	0.1193
					1	104	1	99	22.31	13.06	22.80	0.1202
					50	25	100	0	22.4	13.16	22.89	0.1227
				QPSK DFT-s-OFDM	1	1	1	0	22.42	13.07	22.90	0.1229
					1	104	1	99	22.35	13.03	22.83	0.1211
					50	25	100	0	22.37	13.13	22.86	0.1219
167800	839	19100	1900	PI/2 BPSK DFT-s-OFDM	1	1	1	0	22.46	13.32	22.96	0.1247
					1	104	1	99	22.64	13.32	23.12	0.1294
					50	25	100	0	22.39	13.22	22.89	0.1226
				QPSK DFT-s-OFDM	1	1	1	0	22.42	13.21	22.91	0.1234
					1	104	1	99	22.41	13.28	22.91	0.1233
					50	25	100	0	22.46	13.26	22.95	0.1245



EN-DC_2A_n5A												
Combination 10MHz+20MHz(LTE)												
NR Channel	NR Freq.	LTE Channel	LTE Freq.	Modulation	NR		LTE		NR	LTE	Total	ERP (W)
					RB Size	RB offset	RB Size	RB offset	Measured Power (dBm)	Measured Power (dBm)	Measured Power (dBm)	
165800	829	18700	1860	PI/2 BPSK DFT-s-OFDM	1	1	1	0	22.48	12.79	22.92	0.1237
					1	50	1	99	22.38	12.85	22.84	0.1213
					25	12	100	0	22.63	12.82	23.06	0.1277
				QPSK DFT-s-OFDM	1	1	1	0	22.66	12.85	23.09	0.1286
					1	50	1	99	22.56	12.84	23.00	0.1259
					25	12	100	0	22.57	12.9	23.01	0.1263
167300	836.5	18900	1880	PI/2 BPSK DFT-s-OFDM	1	1	1	0	22.61	12.85	23.05	0.1272
					1	50	1	99	22.44	12.9	22.90	0.1230
					25	12	100	0	22.65	12.97	23.09	0.1286
				QPSK DFT-s-OFDM	1	1	1	0	22.68	12.96	23.12	0.1294
					1	50	1	99	22.43	12.92	22.89	0.1228
					25	12	100	0	22.65	12.88	23.09	0.1284
168800	844	19100	1900	PI/2 BPSK DFT-s-OFDM	1	1	1	0	22.42	12.85	22.87	0.1223
					1	50	1	99	22.41	12.91	22.87	0.1222
					25	12	100	0	22.47	13	22.93	0.1240
				QPSK DFT-s-OFDM	1	1	1	0	22.52	12.89	22.97	0.1250
					1	50	1	99	22.36	12.99	22.84	0.1212
					25	12	100	0	22.57	12.95	23.02	0.1265



EN-DC_2A_n5A												
Combination 5MHz+20MHz(LTE)												
NR Channel	NR Freq.	LTE Channel	LTE Freq.	Modulation	NR		LTE		NR	LTE	Total	ERP (W)
					RB Size	RB offset	RB Size	RB offset	Measured Power (dBm)	Measured Power (dBm)	Measured Power (dBm)	
165300	826.5	18700	1860	PI/2 BPSK DFT-s-OFDM	1	1	1	0	22.05	12.86	22.54	0.1133
					1	23	1	99	22.09	13.05	22.60	0.1148
					12	6	100	0	22.04	12.99	22.55	0.1135
				QPSK DFT-s-OFDM	1	1	1	0	22.03	12.94	22.53	0.1131
					1	23	1	99	22.12	13.01	22.62	0.1154
					12	6	100	0	22.06	13.09	22.58	0.1142
167300	836.5	18900	1880	PI/2 BPSK DFT-s-OFDM	1	1	1	0	22.01	13.01	22.52	0.1128
					1	23	1	99	22.07	13.01	22.58	0.1142
					12	6	100	0	22.05	12.83	22.54	0.1133
				QPSK DFT-s-OFDM	1	1	1	0	22.07	13.09	22.59	0.1145
					1	23	1	99	22.06	13.01	22.57	0.1140
					12	6	100	0	22	13.08	22.52	0.1128
169300	846.5	19100	1900	PI/2 BPSK DFT-s-OFDM	1	1	1	0	21.92	13.13	22.46	0.1111
					1	23	1	99	21.93	13.14	22.47	0.1114
					12	6	100	0	22.03	13.03	22.54	0.1134
				QPSK DFT-s-OFDM	1	1	1	0	21.97	13.06	22.50	0.1121
					1	23	1	99	21.97	13.12	22.50	0.1123
					12	6	100	0	21.99	13.06	22.51	0.1125



EN-DC_66A_n5A												
Combination 20MHz+20MHz(LTE)												
NR Channel	NR Freq.	LTE Channel	LTE Freq.	Modulation	NR		LTE		NR	LTE	Total	ERP (W)
					RB Size	RB offset	RB Size	RB offset	Measured Power (dBm)	Measured Power (dBm)	Measured Power (dBm)	
166800	834	132072	1720	PI/2 BPSK DFT-s-OFDM	1	1	1	0	22.88	12.92	23.30	0.1348
					1	104	1	99	22.82	12.82	23.23	0.1329
					50	25	100	0	22.88	12.83	23.29	0.1346
				QPSK DFT-s-OFDM	1	1	1	0	22.88	12.9	23.30	0.1348
					1	104	1	99	22.87	12.88	23.28	0.1344
					50	25	100	0	22.41	12.91	22.87	0.1222
167300	836.5	132322	1745	PI/2 BPSK DFT-s-OFDM	1	1	1	0	22.83	12.88	23.25	0.1333
					1	104	1	99	22.58	12.8	23.01	0.1263
					50	25	100	0	22.45	12.88	22.90	0.1232
				QPSK DFT-s-OFDM	1	1	1	0	22.99	12.84	23.39	0.1377
					1	104	1	99	22.37	12.81	22.83	0.1209
					50	25	100	0	22.42	12.85	22.87	0.1223
167800	839	132572	1770	PI/2 BPSK DFT-s-OFDM	1	1	1	0	22.72	12.86	23.15	0.1302
					1	104	1	99	22.58	12.9	23.02	0.1266
					50	25	100	0	22.77	12.89	23.19	0.1317
				QPSK DFT-s-OFDM	1	1	1	0	22.86	12.91	23.28	0.1342
					1	104	1	99	22.72	12.78	23.14	0.1300
					50	25	100	0	22.82	12.85	23.24	0.1329



EN-DC_66A_n5A												
Combination 10MHz+20MHz(LTE)												
NR Channel	NR Freq.	LTE Channel	LTE Freq.	Modulation	NR		LTE		NR	LTE	Total	ERP (W)
					RB Size	RB offset	RB Size	RB offset	Measured Power (dBm)	Measured Power (dBm)	Measured Power (dBm)	
165800	829	132072	1720	PI/2 BPSK DFT-s-OFDM	1	1	1	0	22.5	12.57	22.92	0.1236
					1	50	1	99	22.42	12.62	22.85	0.1217
					25	12	100	0	22.65	12.63	23.06	0.1277
				QPSK DFT-s-OFDM	1	1	1	0	22.49	12.64	22.92	0.1235
					1	50	1	99	22.59	12.65	23.01	0.1262
					25	12	100	0	22.5	12.58	22.92	0.1236
167300	836.5	132322	1745	PI/2 BPSK DFT-s-OFDM	1	1	1	0	22.54	12.58	22.96	0.1247
					1	50	1	99	22.46	12.53	22.88	0.1225
					25	12	100	0	22.53	12.51	22.94	0.1242
				QPSK DFT-s-OFDM	1	1	1	0	22.62	12.5	23.02	0.1266
					1	50	1	99	22.57	12.57	22.98	0.1254
					25	12	100	0	22.54	12.62	22.96	0.1248
168800	844	132572	1770	PI/2 BPSK DFT-s-OFDM	1	1	1	0	22.49	12.47	22.90	0.1231
					1	50	1	99	22.39	12.53	22.82	0.1207
					25	12	100	0	22.5	12.59	22.92	0.1237
				QPSK DFT-s-OFDM	1	1	1	0	22.7	12.56	23.10	0.1289
					1	50	1	99	22.41	12.56	22.84	0.1213
					25	12	100	0	22.52	12.6	22.94	0.1242



EN-DC_66A_n5A												
Combination 5MHz+20MHz(LTE)												
NR Channel	NR Freq.	LTE Channel	LTE Freq.	Modulation	NR		LTE		NR	LTE	Total	ERP (W)
					RB Size	RB offset	RB Size	RB offset	Measured Power (dBm)	Measured Power (dBm)	Measured Power (dBm)	
165300	826.5	132072	1720	PI/2 BPSK DFT-s-OFDM	1	1	1	0	22.01	12.47	22.47	0.1114
					1	23	1	99	22.04	12.47	22.49	0.1121
					12	6	100	0	22.12	12.63	22.58	0.1144
				QPSK DFT-s-OFDM	1	1	1	0	22.07	12.51	22.53	0.1129
					1	23	1	99	22.04	12.64	22.51	0.1125
					12	6	100	0	22.08	12.77	22.56	0.1138
167300	836.5	132322	1745	PI/2 BPSK DFT-s-OFDM	1	1	1	0	22.04	12.45	22.49	0.1120
					1	23	1	99	22.08	12.58	22.54	0.1133
					12	6	100	0	22.02	12.68	22.50	0.1122
				QPSK DFT-s-OFDM	1	1	1	0	22.09	12.6	22.55	0.1136
					1	23	1	99	22.08	12.68	22.55	0.1136
					12	6	100	0	22.05	12.55	22.51	0.1125
169300	846.5	132572	1770	PI/2 BPSK DFT-s-OFDM	1	1	1	0	21.94	12.55	22.41	0.1100
					1	23	1	99	22	12.6	22.47	0.1115
					12	6	100	0	21.91	12.63	22.39	0.1095
				QPSK DFT-s-OFDM	1	1	1	0	21.95	12.38	22.40	0.1098
					1	23	1	99	21.93	12.64	22.41	0.1100
					12	6	100	0	21.91	12.49	22.38	0.1091



EN-DC_2A_n41A												
Combination 100MHz+20MHz(LTE)												
NR Channel	NR Freq.	LTE Channel	LTE Freq.	Modulation	NR		LTE		NR	LTE	Total	EIRP (W)
					RB Size	RB offset	RB Size	RB offset	Measured Power (dBm)	Measured Power (dBm)	Measured Power (dBm)	
509202	2546.01	18700	1860	PI/2 BPSK DFT-s-OFDM	1	1	1	0	22.44	11.97	22.81	0.1206
					1	271	1	99	22.52	12.06	22.89	0.1229
					135	67	100	0	22.44	12.01	22.82	0.1207
				QPSK DFT-s-OFDM	1	1	1	0	22.55	12.05	22.92	0.1236
					1	271	1	99	22.6	11.93	22.96	0.1247
					135	67	100	0	22.43	12	22.81	0.1204
518598	2592.99	18900	1880	PI/2 BPSK DFT-s-OFDM	1	1	1	0	22.7	12.07	23.06	0.1277
					1	271	1	99	23.22	12.03	23.54	0.1425
					135	67	100	0	22.92	12.03	23.26	0.1337
				QPSK DFT-s-OFDM	1	1	1	0	22.9	12.03	23.24	0.1331
					1	271	1	99	23.32	12.08	23.63	0.1457
					135	67	100	0	23.01	12.07	23.35	0.1363
528000	2640	19100	1900	PI/2 BPSK DFT-s-OFDM	1	1	1	0	22.95	11.9	23.28	0.1342
					1	271	1	99	22.41	12.01	22.79	0.1199
					135	67	100	0	23.23	12.07	23.55	0.1429
				QPSK DFT-s-OFDM	1	1	1	0	23.05	11.97	23.38	0.1373
					1	271	1	99	22.28	12.05	22.67	0.1168
					135	67	100	0	23.32	11.95	23.63	0.1454



EN-DC_2A_n41A												
Combination 60MHz+20MHz(LTE)												
NR Channel	NR Freq.	LTE Channel	LTE Freq.	Modulation	NR		LTE		NR	LTE	Total	EIRP (W)
					RB Size	RB offset	RB Size	RB offset	Measured Power (dBm)	Measured Power (dBm)	Measured Power (dBm)	
505200	2526	18700	1860	PI/2 BPSK DFT-s-OFDM	1	1	1	0	22.28	11.78	22.65	0.1162
					1	160	1	99	22.12	11.79	22.50	0.1123
					81	40	100	0	22.11	11.78	22.49	0.1121
				QPSK DFT-s-OFDM	1	1	1	0	22.22	11.79	22.60	0.1147
					1	160	1	99	22.07	11.85	22.46	0.1113
					81	40	100	0	22	11.84	22.40	0.1096
518598	2592.99	18900	1880	PI/2 BPSK DFT-s-OFDM	1	1	1	0	22.21	11.79	22.59	0.1145
					1	160	1	99	22.98	11.83	23.30	0.1349
					81	40	100	0	22.67	11.83	23.01	0.1263
				QPSK DFT-s-OFDM	1	1	1	0	22.44	11.92	22.81	0.1205
					1	160	1	99	23.14	11.9	23.45	0.1398
					81	40	100	0	22.77	11.86	23.11	0.1291
531996	2659.98	19100	1900	PI/2 BPSK DFT-s-OFDM	1	1	1	0	22.88	11.82	23.21	0.1321
					1	160	1	99	22.06	11.7	22.44	0.1107
					81	40	100	0	22.54	11.7	22.88	0.1226
				QPSK DFT-s-OFDM	1	1	1	0	22.98	11.79	23.30	0.1348
					1	160	1	99	22.11	11.76	22.49	0.1120
					81	40	100	0	22.66	11.65	22.99	0.1256



EN-DC_2A_n41A												
Combination 20MHz+20MHz(LTE)												
NR Channel	NR Freq.	LTE Channel	LTE Freq.	Modulation	NR		LTE		NR	LTE	Total	EIRP (W)
					RB Size	RB offset	RB Size	RB offset	Measured Power (dBm)	Measured Power (dBm)	Measured Power (dBm)	
501204	2506.02	18700	1860	PI/2 BPSK DFT-s-OFDM	1	1	1	0	22.41	11.76	22.77	0.1194
					1	49	1	99	22.26	11.67	22.62	0.1154
					25	12	100	0	22.31	11.61	22.66	0.1165
				QPSK DFT-s-OFDM	1	1	1	0	22.38	11.72	22.74	0.1185
					1	49	1	99	22.26	11.74	22.63	0.1156
					25	12	100	0	22.37	11.59	22.72	0.1180
518598	2592.99	18900	1880	PI/2 BPSK DFT-s-OFDM	1	1	1	0	22.65	11.79	22.99	0.1257
					1	49	1	99	22.8	11.74	23.13	0.1296
					25	12	100	0	22.69	11.67	23.02	0.1265
				QPSK DFT-s-OFDM	1	1	1	0	22.88	11.7	23.20	0.1318
					1	49	1	99	22.8	11.89	23.14	0.1300
					25	12	100	0	22.69	11.81	23.03	0.1268
535998	2679.99	19100	1900	PI/2 BPSK DFT-s-OFDM	1	1	1	0	22.54	11.7	22.88	0.1226
					1	49	1	99	21.95	11.53	22.33	0.1078
					25	12	100	0	22.3	11.63	22.66	0.1163
				QPSK DFT-s-OFDM	1	1	1	0	22.71	11.63	23.04	0.1269
					1	49	1	99	21.92	11.63	22.31	0.1074
					25	12	100	0	22.29	11.65	22.65	0.1161



EN-DC_3A_n41A												
Combination 100MHz+20MHz(LTE)												
NR Channel	NR Freq.	LTE Channel	LTE Freq.	Modulation	NR		LTE		NR	LTE	Total	EIRP (W)
					RB Size	RB offset	RB Size	RB offset	Measured Power (dBm)	Measured Power (dBm)	Measured Power (dBm)	
509202	2546.01	19300	1720	PI/2 BPSK DFT-s-OFDM	1	1	1	0	22.69	12.52	23.09	0.1285
					1	271	1	99	22.79	12.52	23.18	0.1312
					135	67	100	0	22.54	12.46	22.95	0.1244
				QPSK DFT-s-OFDM	1	1	1	0	22.73	12.48	23.12	0.1295
					1	271	1	99	22.84	12.53	23.23	0.1326
					135	67	100	0	22.66	12.52	23.06	0.1277
518598	2592.99	19575	1747.5	PI/2 BPSK DFT-s-OFDM	1	1	1	0	22.86	12.29	23.23	0.1326
					1	271	1	99	23.5	12.35	23.82	0.1521
					135	67	100	0	23.12	12.34	23.47	0.1402
				QPSK DFT-s-OFDM	1	1	1	0	22.98	12.39	23.34	0.1363
					1	271	1	99	23.65	12.4	23.96	0.1572
					135	67	100	0	23.22	12.39	23.56	0.1434
528000	2640	19850	1775	PI/2 BPSK DFT-s-OFDM	1	1	1	0	23.18	12.46	23.53	0.1423
					1	271	1	99	22.85	12.52	23.23	0.1329
					135	67	100	0	23.51	12.53	23.84	0.1529
				QPSK DFT-s-OFDM	1	1	1	0	23.22	12.39	23.56	0.1434
					1	271	1	99	22.69	12.34	23.07	0.1280
					135	67	100	0	23.52	12.45	23.85	0.1530



EN-DC_3A_n41A												
Combination 60MHz+20MHz(LTE)												
NR Channel	NR Freq.	LTE Channel	LTE Freq.	Modulation	NR		LTE		NR	LTE	Total Measured Power (dBm)	EIRP (W)
					RB Size	RB offset	RB Size	RB offset	Measured Power (dBm)	Measured Power (dBm)		
505200	2526	19300	1720	PI/2 BPSK DFT-s-OFDM	1	1	1	0	22.49	12.21	22.88	0.1224
					1	160	1	99	22.27	12.2	22.68	0.1169
					81	40	100	0	22.2	12.25	22.62	0.1153
				QPSK DFT-s-OFDM	1	1	1	0	22.47	12.16	22.86	0.1218
					1	160	1	99	22.34	12.22	22.74	0.1187
					81	40	100	0	22.26	12.24	22.67	0.1167
518598	2592.99	19575	1747.5	PI/2 BPSK DFT-s-OFDM	1	1	1	0	22.47	12.17	22.86	0.1218
					1	160	1	99	23.18	12.12	23.51	0.1415
					81	40	100	0	22.93	12.19	23.28	0.1343
				QPSK DFT-s-OFDM	1	1	1	0	22.54	12.18	22.92	0.1237
					1	160	1	99	23.3	12.06	23.61	0.1450
					81	40	100	0	22.98	12.14	23.32	0.1356
531996	2659.98	19850	1775	PI/2 BPSK DFT-s-OFDM	1	1	1	0	23.21	12.07	23.53	0.1423
					1	160	1	99	22.32	12.23	22.73	0.1182
					81	40	100	0	22.97	12.19	23.32	0.1355
				QPSK DFT-s-OFDM	1	1	1	0	23.27	12.19	23.60	0.1444
					1	160	1	99	22.5	12.25	22.89	0.1228
					81	40	100	0	22.93	12.18	23.28	0.1343



EN-DC_3A_n41A												
Combination 20MHz+20MHz(LTE)												
NR Channel	NR Freq.	LTE Channel	LTE Freq.	Modulation	NR		LTE		NR	LTE	Total	EIRP (W)
					RB Size	RB offset	RB Size	RB offset	Measured Power (dBm)	Measured Power (dBm)	Measured Power (dBm)	
501204	2506.02	19300	1720	PI/2 BPSK DFT-s-OFDM	1	1	1	0	22.36	12.1	22.75	0.1189
					1	49	1	99	22.28	12.18	22.68	0.1171
					25	12	100	0	22.28	12.21	22.69	0.1172
				QPSK DFT-s-OFDM	1	1	1	0	22.4	12.14	22.79	0.1200
					1	49	1	99	22.33	12.09	22.72	0.1181
					25	12	100	0	22.29	12.15	22.69	0.1173
518598	2592.99	19575	1747.5	PI/2 BPSK DFT-s-OFDM	1	1	1	0	22.94	12.11	23.28	0.1344
					1	49	1	99	22.97	12.08	23.31	0.1352
					25	12	100	0	22.94	12.12	23.29	0.1344
				QPSK DFT-s-OFDM	1	1	1	0	23.04	12.09	23.38	0.1373
					1	49	1	99	23.07	12.17	23.41	0.1383
					25	12	100	0	22.96	12.11	23.30	0.1350
535998	2679.99	19850	1775	PI/2 BPSK DFT-s-OFDM	1	1	1	0	22.65	12.02	23.01	0.1262
					1	49	1	99	22.37	12.18	22.77	0.1193
					25	12	100	0	22.67	12.13	23.04	0.1270
				QPSK DFT-s-OFDM	1	1	1	0	22.88	12.21	23.24	0.1330
					1	49	1	99	22.21	12.19	22.62	0.1154
					25	12	100	0	22.58	12.15	22.96	0.1246



EN-DC_25A_n41A												
Combination 100MHz+20MHz(LTE)												
NR Channel	NR Freq.	LTE Channel	LTE Freq.	Modulation	NR		LTE		NR	LTE	Total	EIRP (W)
					RB Size	RB offset	RB Size	RB offset	Measured Power (dBm)	Measured Power (dBm)	Measured Power (dBm)	
509202	2546.01	26140	1860	PI/2 BPSK DFT-s-OFDM	1	1	1	0	22.61	12.26	22.99	0.1257
					1	271	1	99	22.68	12.27	23.06	0.1276
					135	67	100	0	22.53	12.23	22.92	0.1235
				QPSK DFT-s-OFDM	1	1	1	0	22.67	12.25	23.05	0.1273
					1	271	1	99	22.72	12.2	23.09	0.1285
					135	67	100	0	22.57	12.21	22.95	0.1245
518598	2592.99	26340	1880	PI/2 BPSK DFT-s-OFDM	1	1	1	0	22.86	12.41	23.23	0.1329
					1	271	1	99	23.42	12.41	23.75	0.1497
					135	67	100	0	23.22	12.34	23.56	0.1432
				QPSK DFT-s-OFDM	1	1	1	0	23.1	12.37	23.45	0.1397
					1	271	1	99	23.47	12.32	23.79	0.1510
					135	67	100	0	23.22	12.32	23.56	0.1432
528000	2640	26590	1905	PI/2 BPSK DFT-s-OFDM	1	1	1	0	23.15	12.06	23.48	0.1405
					1	271	1	99	22.65	12.09	23.02	0.1264
					135	67	100	0	23.51	12.18	23.82	0.1520
				QPSK DFT-s-OFDM	1	1	1	0	23.13	12.17	23.46	0.1401
					1	271	1	99	22.78	12.05	23.13	0.1298
					135	67	100	0	23.47	12.13	23.78	0.1506



EN-DC_25A_n41A												
Combination 60MHz+20MHz(LTE)												
NR Channel	NR Freq.	LTE Channel	LTE Freq.	Modulation	NR		LTE		NR	LTE	Total	EIRP (W)
					RB Size	RB offset	RB Size	RB offset	Measured Power (dBm)	Measured Power (dBm)	Measured Power (dBm)	
505200	2526	26140	1860	PI/2 BPSK DFT-s-OFDM	1	1	1	0	22.3	12.05	22.69	0.1173
					1	160	1	99	22.2	12.05	22.60	0.1148
					81	40	100	0	22.21	12.05	22.61	0.1151
				QPSK DFT-s-OFDM	1	1	1	0	22.41	12.07	22.79	0.1201
					1	160	1	99	22.29	12.12	22.69	0.1172
					81	40	100	0	22.18	12.1	22.59	0.1145
518598	2592.99	26340	1880	PI/2 BPSK DFT-s-OFDM	1	1	1	0	22.49	12.11	22.87	0.1222
					1	160	1	99	23.12	12.12	23.45	0.1397
					81	40	100	0	22.81	12.08	23.16	0.1307
				QPSK DFT-s-OFDM	1	1	1	0	22.55	12.1	22.92	0.1237
					1	160	1	99	23.14	12.18	23.47	0.1404
					81	40	100	0	22.79	12.14	23.15	0.1303
531996	2659.98	26590	1905	PI/2 BPSK DFT-s-OFDM	1	1	1	0	23.21	12.03	23.53	0.1422
					1	160	1	99	22.27	11.98	22.66	0.1164
					81	40	100	0	22.79	12.04	23.14	0.1300
				QPSK DFT-s-OFDM	1	1	1	0	23.1	12.08	23.43	0.1390
					1	160	1	99	22.31	12.07	22.70	0.1176
					81	40	100	0	22.78	12.03	23.13	0.1297



EN-DC_25A_n41A												
Combination 20MHz+20MHz(LTE)												
NR Channel	NR Freq.	LTE Channel	LTE Freq.	Modulation	NR		LTE		NR	LTE	Total	EIRP (W)
					RB Size	RB offset	RB Size	RB offset	Measured Power (dBm)	Measured Power (dBm)	Measured Power (dBm)	
501204	2506.02	26140	1860	PI/2 BPSK DFT-s-OFDM	1	1	1	0	22.31	11.8	22.68	0.1169
					1	49	1	99	22.1	11.73	22.48	0.1117
					25	12	100	0	22.29	11.84	22.66	0.1165
				QPSK DFT-s-OFDM	1	1	1	0	22.21	11.81	22.59	0.1145
					1	49	1	99	22.16	11.69	22.53	0.1131
					25	12	100	0	22.19	11.78	22.57	0.1140
518598	2592.99	26340	1880	PI/2 BPSK DFT-s-OFDM	1	1	1	0	22.78	11.93	23.12	0.1295
					1	49	1	99	22.85	11.94	23.19	0.1315
					25	12	100	0	22.8	11.96	23.14	0.1301
				QPSK DFT-s-OFDM	1	1	1	0	22.8	11.85	23.14	0.1299
					1	49	1	99	22.8	12.04	23.15	0.1303
					25	12	100	0	22.7	12.01	23.06	0.1275
535998	2679.99	26590	1905	PI/2 BPSK DFT-s-OFDM	1	1	1	0	22.7	11.79	23.04	0.1270
					1	49	1	99	22.23	11.73	22.60	0.1148
					25	12	100	0	22.57	11.83	22.92	0.1236
				QPSK DFT-s-OFDM	1	1	1	0	22.7	11.85	23.04	0.1272
					1	49	1	99	22.12	11.68	22.50	0.1121
					25	12	100	0	22.46	11.71	22.81	0.1205



EN-DC_26A_n41A												
Combination 100MHz+15MHz(LTE)												
NR Channel	NR Freq.	LTE Channel	LTE Freq.	Modulation	NR		LTE		NR	LTE	Total Measured Power (dBm)	EIRP (W)
					RB Size	RB offset	RB Size	RB offset	Measured Power (dBm)	Measured Power (dBm)		
509202	2546.01	26765	821.5	PI/2 BPSK DFT-s-OFDM	1	1	1	0	22.54	12.54	22.95	0.1246
					1	271	1	74	22.48	12.49	22.89	0.1229
					135	67	75	0	22.6	12.52	23.01	0.1261
				QPSK DFT-s-OFDM	1	1	1	0	22.55	12.56	22.96	0.1249
					1	271	1	74	22.32	12.52	22.75	0.1189
					135	67	75	0	22.69	12.6	23.10	0.1287
518598	2592.99	26865	831.5	PI/2 BPSK DFT-s-OFDM	1	1	1	0	22.78	12.44	23.16	0.1307
					1	271	1	74	22.44	12.53	22.86	0.1220
					135	67	75	0	22.56	12.49	22.97	0.1250
				QPSK DFT-s-OFDM	1	1	1	0	22.65	12.59	23.06	0.1276
					1	271	1	74	22.38	12.55	22.81	0.1205
					135	67	75	0	22.64	12.54	23.04	0.1272
528000	2640	26965	841.5	PI/2 BPSK DFT-s-OFDM	1	1	1	0	22.51	12.66	22.94	0.1241
					1	271	1	74	22.13	12.56	22.58	0.1144
					135	67	75	0	22.34	12.61	22.78	0.1197
				QPSK DFT-s-OFDM	1	1	1	0	22.63	12.71	23.05	0.1274
					1	271	1	74	21.9	12.65	22.39	0.1093
					135	67	75	0	22.42	12.68	22.86	0.1218



EN-DC_26A_n41A												
Combination 60MHz+15MHz(LTE)												
NR Channel	NR Freq.	LTE Channel	LTE Freq.	Modulation	NR		LTE		NR	LTE	Total Measured Power (dBm)	EIRP (W)
					RB Size	RB offset	RB Size	RB offset	Measured Power (dBm)	Measured Power (dBm)		
505200	2526	26765	821.5	PI/2 BPSK DFT-s-OFDM	1	1	1	0	22.36	11.76	22.72	0.1181
					1	160	1	74	22.33	11.75	22.69	0.1173
					81	40	75	0	22.39	11.81	22.75	0.1190
				QPSK DFT-s-OFDM	1	1	1	0	22.28	11.74	22.65	0.1161
					1	160	1	74	22.23	11.76	22.60	0.1149
					81	40	75	0	22.5	11.76	22.85	0.1217
518598	2592.99	26865	831.5	PI/2 BPSK DFT-s-OFDM	1	1	1	0	22.14	11.71	22.52	0.1126
					1	160	1	74	22.13	11.72	22.51	0.1124
					81	40	75	0	22.24	11.75	22.61	0.1151
				QPSK DFT-s-OFDM	1	1	1	0	22.17	11.7	22.54	0.1133
					1	160	1	74	21.97	11.68	22.36	0.1086
					81	40	75	0	22.18	11.75	22.56	0.1137
531996	2659.98	26965	841.5	PI/2 BPSK DFT-s-OFDM	1	1	1	0	22.22	11.76	22.59	0.1147
					1	160	1	74	21.71	11.72	22.12	0.1029
					81	40	75	0	21.78	11.71	22.19	0.1044
				QPSK DFT-s-OFDM	1	1	1	0	21.92	11.77	22.32	0.1077
					1	160	1	74	21.55	11.73	21.98	0.0996
					81	40	75	0	21.78	11.73	22.19	0.1045



EN-DC_26A_n41A												
Combination 20MHz+15MHz(LTE)												
NR Channel	NR Freq.	LTE Channel	LTE Freq.	Modulation	NR		LTE		NR	LTE	Total	EIRP (W)
					RB Size	RB offset	RB Size	RB offset	Measured Power (dBm)	Measured Power (dBm)	Measured Power (dBm)	
501204	2506.02	26765	821.5	PI/2 BPSK DFT-s-OFDM	1	1	1	0	22.27	12.28	22.68	0.1171
					1	49	1	74	22.2	12.26	22.62	0.1153
					25	12	75	0	22.15	12.31	22.58	0.1143
				QPSK DFT-s-OFDM	1	1	1	0	22.19	12.24	22.61	0.1150
					1	49	1	74	22.08	12.36	22.52	0.1127
					25	12	75	0	22.14	12.35	22.57	0.1141
518598	2592.99	26865	831.5	PI/2 BPSK DFT-s-OFDM	1	1	1	0	22.4	12.24	22.80	0.1202
					1	49	1	74	22.12	12.26	22.55	0.1134
					25	12	75	0	22.28	12.39	22.70	0.1176
				QPSK DFT-s-OFDM	1	1	1	0	22.31	12.31	22.72	0.1181
					1	49	1	74	22.21	12.28	22.63	0.1156
					25	12	75	0	22.22	12.18	22.63	0.1156
535998	2679.99	26965	841.5	PI/2 BPSK DFT-s-OFDM	1	1	1	0	21.89	12.19	22.33	0.1079
					1	49	1	74	21.62	12.31	22.10	0.1024
					25	12	75	0	21.76	12.28	22.22	0.1053
				QPSK DFT-s-OFDM	1	1	1	0	21.74	12.26	22.20	0.1048
					1	49	1	74	21.49	12.29	21.98	0.0996
					25	12	75	0	21.73	12.21	22.19	0.1045



EN-DC_39A_n41A												
Combination 100MHz+20MHz(LTE)												
NR Channel	NR Freq.	LTE Channel	LTE Freq.	Modulation	NR		LTE		NR	LTE	Total	EIRP (W)
					RB Size	RB offset	RB Size	RB offset	Measured Power (dBm)	Measured Power (dBm)	Measured Power (dBm)	
509202	2546.01	38350	1890	PI/2 BPSK DFT-s-OFDM	1	1	1	0	23.05	12.42	23.41	0.1384
					1	271	1	99	23.07	12.45	23.43	0.1390
					135	67	100	0	22.95	12.38	23.32	0.1354
				QPSK DFT-s-OFDM	1	1	1	0	23.06	12.46	23.42	0.1388
					1	271	1	99	22.97	12.43	23.34	0.1361
					135	67	100	0	23.06	12.4	23.42	0.1386
518598	2592.99	38450	1900	PI/2 BPSK DFT-s-OFDM	1	1	1	0	23.32	12.35	23.65	0.1464
					1	271	1	99	23.87	12.27	24.16	0.1645
					135	67	100	0	23.55	12.28	23.86	0.1536
				QPSK DFT-s-OFDM	1	1	1	0	23.34	12.26	23.67	0.1468
					1	271	1	99	23.92	12.32	24.21	0.1664
					135	67	100	0	23.59	12.31	23.90	0.1550
528000	2640	38550	1910	PI/2 BPSK DFT-s-OFDM	1	1	1	0	23.57	12.26	23.88	0.1542
					1	271	1	99	22.66	12.26	23.04	0.1270
					135	67	100	0	23.93	12.41	24.23	0.1669
				QPSK DFT-s-OFDM	1	1	1	0	23.65	12.32	23.96	0.1570
					1	271	1	99	22.56	12.29	22.95	0.1245
					135	67	100	0	23.95	12.28	24.24	0.1673



EN-DC_39A_n41A												
Combination 60MHz+20MHz(LTE)												
NR Channel	NR Freq.	LTE Channel	LTE Freq.	Modulation	NR		LTE		NR	LTE	Total Measured Power (dBm)	EIRP (W)
					RB Size	RB offset	RB Size	RB offset	Measured Power (dBm)	Measured Power (dBm)		
505200	2526	38350	1890	PI/2 BPSK DFT-s-OFDM	1	1	1	0	22.71	12.03	23.07	0.1278
					1	160	1	99	22.64	12.06	23.00	0.1260
					81	40	100	0	22.66	12.04	23.02	0.1265
				QPSK DFT-s-OFDM	1	1	1	0	22.73	12.08	23.09	0.1285
					1	160	1	99	22.76	12.06	23.11	0.1293
					81	40	100	0	22.65	12.12	23.02	0.1264
518598	2592.99	38450	1900	PI/2 BPSK DFT-s-OFDM	1	1	1	0	22.73	12.07	23.09	0.1285
					1	160	1	99	23.66	12.02	23.95	0.1566
					81	40	100	0	23.32	12.08	23.63	0.1457
				QPSK DFT-s-OFDM	1	1	1	0	22.8	12.03	23.15	0.1303
					1	160	1	99	23.6	12.11	23.90	0.1548
					81	40	100	0	23.25	12.05	23.57	0.1435
531996	2659.98	38550	1910	PI/2 BPSK DFT-s-OFDM	1	1	1	0	23.59	11.92	23.88	0.1540
					1	160	1	99	22.66	11.93	23.01	0.1263
					81	40	100	0	23.38	11.95	23.68	0.1473
				QPSK DFT-s-OFDM	1	1	1	0	23.6	11.84	23.88	0.1542
					1	160	1	99	22.67	11.91	23.02	0.1265
					81	40	100	0	23.41	11.97	23.71	0.1483



EN-DC_39A_n41A												
Combination 20MHz+20MHz(LTE)												
NR Channel	NR Freq.	LTE Channel	LTE Freq.	Modulation	NR		LTE		NR	LTE	Total Measured Power (dBm)	EIRP (W)
					RB Size	RB offset	RB Size	RB offset	Measured Power (dBm)	Measured Power (dBm)		
501204	2506.02	38350	1890	PI/2 BPSK DFT-s-OFDM	1	1	1	0	21.42	12.74	21.97	0.0994
					1	49	1	99	21.88	12.68	22.37	0.1090
					25	12	100	0	22.55	12.66	22.97	0.1251
				QPSK DFT-s-OFDM	1	1	1	0	21.41	12.71	21.96	0.0991
					1	49	1	99	21.83	12.74	22.33	0.1080
					25	12	100	0	22.56	12.75	22.99	0.1256
518598	2592.99	38450	1900	PI/2 BPSK DFT-s-OFDM	1	1	1	0	22.58	12.61	23.00	0.1258
					1	49	1	99	22.14	12.64	22.60	0.1149
					25	12	100	0	22.54	12.56	22.96	0.1246
				QPSK DFT-s-OFDM	1	1	1	0	22.55	12.66	22.97	0.1251
					1	49	1	99	22.06	12.72	22.54	0.1132
					25	12	100	0	22.58	12.69	23.00	0.1260
535998	2679.99	38550	1910	PI/2 BPSK DFT-s-OFDM	1	1	1	0	21.46	12.66	22.00	0.0999
					1	49	1	99	20.43	12.6	21.09	0.0811
					25	12	100	0	21.05	12.65	21.64	0.0920
				QPSK DFT-s-OFDM	1	1	1	0	21.37	12.63	21.91	0.0981
					1	49	1	99	20.37	12.69	21.05	0.0804
					25	12	100	0	20.99	12.66	21.59	0.0909



EN-DC_41A_n41A												
Combination 100MHz+20MHz(LTE)												
NR Channel	NR Freq.	LTE Channel	LTE Freq.	Modulation	NR		LTE		NR	LTE	Total	EIRP (W)
					RB Size	RB offset	RB Size	RB offset	Measured Power (dBm)	Measured Power (dBm)	Measured Power (dBm)	
509202	2546.01	41490	2680	PI/2 BPSK DFT-s-OFDM	1	1	1	0	20.08	20.53	23.32	0.1356
					1	271	1	99	19.78	20.51	23.17	0.1309
					135	67	100	0	20.81	20.5	23.67	0.1468
				QPSK DFT-s-OFDM	1	1	1	0	20.14	20.59	23.38	0.1374
					1	271	1	99	19.95	20.52	23.25	0.1335
					135	67	100	0	20.35	20.54	23.46	0.1398
528000	2640	39750	2506	PI/2 BPSK DFT-s-OFDM	1	1	1	0	22.61	20.81	24.81	0.1911
					1	271	1	99	20	20.81	23.43	0.1391
					135	67	100	0	22.15	20.77	24.52	0.1788
				QPSK DFT-s-OFDM	1	1	1	0	22.58	20.79	24.79	0.1900
					1	271	1	99	19.93	20.87	23.44	0.1392
					135	67	100	0	22.04	20.84	24.49	0.1775



EN-DC_41A_n41A												
Combination 60MHz+20MHz(LTE)												
NR Channel	NR Freq.	LTE Channel	LTE Freq.	Modulation	NR		LTE		NR	LTE	Total	EIRP (W)
					RB Size	RB offset	RB Size	RB offset	Measured Power (dBm)	Measured Power (dBm)	Measured Power (dBm)	
505200	2526	41490	2680	PI/2 BPSK DFT-s-OFDM	1	1	1	0	23.03	20.46	24.94	0.1969
					1	160	1	99	22.62	20.52	24.71	0.1865
					81	40	100	0	21.85	20.54	24.25	0.1681
				QPSK DFT-s-OFDM	1	1	1	0	22.58	20.44	24.65	0.1841
					1	160	1	99	22.23	20.52	24.47	0.1766
					81	40	100	0	21.88	20.5	24.25	0.1681
531996	2659.98	39750	2506	PI/2 BPSK DFT-s-OFDM	1	1	1	0	21.81	20.78	24.34	0.1712
					1	160	1	99	20.09	20.88	23.51	0.1417
					81	40	100	0	21.97	20.74	24.41	0.1741
				QPSK DFT-s-OFDM	1	1	1	0	21.82	20.78	24.34	0.1714
					1	160	1	99	20.12	20.82	23.49	0.1411
					81	40	100	0	21.83	20.82	24.36	0.1724



EN-DC_41A_n41A												
Combination 20MHz+20MHz(LTE)												
NR Channel	NR Freq.	LTE Channel	LTE Freq.	Modulation	NR		LTE		NR	LTE	Total Measured Power (dBm)	EIRP (W)
					RB Size	RB offset	RB Size	RB offset	Measured Power (dBm)	Measured Power (dBm)		
501204	2506.02	41490	2680	PI/2 BPSK DFT-s-OFDM	1	1	1	0	23.06	20.44	24.95	0.1975
					1	49	1	99	21.88	20.45	24.23	0.1673
					25	12	100	0	22.59	20.49	24.68	0.1852
				QPSK DFT-s-OFDM	1	1	1	0	22.98	20.44	24.90	0.1951
					1	49	1	99	21.82	20.51	24.22	0.1669
					25	12	100	0	22.54	20.48	24.64	0.1837
535998	2679.99	39750	2506	PI/2 BPSK DFT-s-OFDM	1	1	1	0	21.33	20.78	24.07	0.1612
					1	49	1	99	20.26	20.8	23.55	0.1428
					25	12	100	0	20.93	20.88	23.92	0.1554
				QPSK DFT-s-OFDM	1	1	1	0	21.2	20.82	24.02	0.1594
					1	49	1	99	20.2	20.8	23.52	0.1419
					25	12	100	0	20.82	20.85	23.85	0.1529



EN-DC_n41AA												
Combination 100MHz+20MHz(LTE)												
NR Channel	NR Freq.	LTE Channel	LTE Freq.	Modulation	NR		LTE		NR	LTE	Total	EIRP (W)
					RB Size	RB offset	RB Size	RB offset	Measured Power (dBm)	Measured Power (dBm)	Measured Power (dBm)	
509220	2546.1	40751	2606.1	PI/2 BPSK DFT-s-OFDM	1	1	1	0	22.83	20.54	24.84	0.1925
					1	271	1	99	22.1	20.54	24.40	0.1738
					135	67	100	0	21.87	20.61	24.30	0.1697
				QPSK DFT-s-OFDM	1	1	1	0	22.53	20.6	24.68	0.1854
					1	271	1	99	21.82	20.55	24.24	0.1676
					135	67	100	0	22.32	20.56	24.54	0.1794
516600	2583	41120	2643	PI/2 BPSK DFT-s-OFDM	1	1	1	0	21.37	20.55	23.99	0.1581
					1	271	1	99	21.57	20.52	24.09	0.1617
					135	67	100	0	22.65	20.51	24.72	0.1871
				QPSK DFT-s-OFDM	1	1	1	0	21.34	20.6	24.00	0.1583
					1	271	1	99	21.63	20.53	24.13	0.1631
					135	67	100	0	22.62	20.54	24.71	0.1868
528000	2640	40490	2580	PI/2 BPSK DFT-s-OFDM	1	1	1	0	21.78	20.69	24.28	0.1690
					1	271	1	99	22.03	20.6	24.38	0.1731
					135	67	100	0	22.1	20.7	24.47	0.1765
				QPSK DFT-s-OFDM	1	1	1	0	21.58	20.74	24.19	0.1656
					1	271	1	99	21.91	20.7	24.36	0.1721
					135	67	100	0	21.91	20.66	24.34	0.1714