

FCC RADIO TEST REPORT

FCC ID: 2AZYA-A70

Product: smartphone
Trade Mark: ACER
Model Number: A70
Family Model: N/A
Report No.: N26062907306E
Issue Date: Aug. 13, 2026

Prepared for

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TEST RESULT CERTIFICATION

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Product name : smartphone

Trade Mark : ACER

Model and/or type reference : A70

Family Model : N/A

Test Sample number : S2607030032-1#

Date of Test : Jun. 29, 2026 ~ Aug 13, 2026

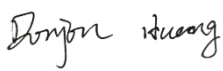
Standards : FCC CFR 47 Part 27

Test procedure ANSI C63.26:2015

ANSI/TIA-603-E-2016

This device described above has been tested by NTEK, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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1. GENERAL INFORMATION

1.1 PRODUCT DESCRIPTION

A major technical description of EUT is described as following:

Equipment	smartphone
Trade Mark	ACER
Model Name	A70
Family Model	N/A
Model Difference	N/A
FCC ID:	2AZYA-A70
Frequency Bands:	U.S. Bands: ☒ NR Band 7, 41, 71, 78
Frequency Range:	NR Band 7 Uplink: 2500MHz-2570MHz; Downlink: 2620MHz-2690MHz; NR Band 41 Uplink& Downlink: 2496MHz-2690MHz; NR Band 71 Uplink: 663MHz-698MHz; Downlink: 617MHz-652MHz; NR Band 78 Uplink/Downlink: 3450 MHz-3550 MHz
Type of Modulation:	DFT-s-OFDM: PI/2 BPSK/QPSK/16-QAM/64QAM/256QAM CP-OFDM: QPSK/16-QAM/64QAM/256QAM
Subcarrier spacing	☒ 15KHz, ☒ 30KHz, ☐ 60KHz
NR architecture	☒ SA, ☐ NSA
Antenna:	PIFA Antenna
Antenna gain:	N 7: 0.52dBi, N 41: 0.52dBi, N71: -3.26dBi, N 78: 1.11dBi
Adapter	Model: LD-PDS20WUL Input: 100-240V~50/60Hz 0.5A Output: 5.0V---3.0A 15.0W OR 9.0V---2.22A 19.98W OR 12.0V---1.67A 20.04W PPS: 3.3-5.9V---3.0A 17.7W, 3.3-11.0V---1.8A 19.8W
Battery	DC 3.87V, 5000mAh, 19.35Wh
Power supply	DC 3.87V from battery or DC 5V/9V/12V from adapter
Extreme Vol. Limits:	DC 3.4V to DC 4.45V (Nominal DC 3.87V) (Note 1)
HW Version	N/A
SW Version	N/A
** Note1: The High Voltage 4.45V and Low Voltage 3.4V was declared by manufacturer, The EUT couldn't be operate normally with higher or lower voltage.	

1.2 RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for **FCC ID: 2AZYA-A70** filing to comply with the FCC Part 27.

1.3 TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI/TIA-603-E-2016, FCC CFR 47 Part 2, Part 27, ANSI C63.26:2015.

1.4 TEST FACILITY

The test site used to collect the radiated data is located at:

ShenZhen NTEK Testing Technology Co., Ltd.

No. 24 Xinfu East Road, Xiangshan Community, Xinqiao Street, Baoan District, Shenzhen, Guangdong, People's Republic of China

The test site is constructed and calibrated to meet the FCC requirements in documents ANSI C63.26:2015& ANSI C63.4: 2014.

FCC Registration No.:463705

IC Registration No.:9270A,

CNAS Registration No.:L5516

1.5 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	2.5dB

1.6 SPECIAL ACCESSORIES

The battery and the charger, earphone supplied by the applicant were used as accessories and being tested with EUT intended for FCC grant together.

1.7 WORST-CASE CONFIGURATION AND MODE

The worst-case scenario for all measurements is based on the investigation results.

The device has NR Bands of: Band 2/66/71/77/78.

The RB Size was selected to measure for peak or average ERP and EIRP, which was based on the conducted power verification baseline data.

For the fundamental investigation of radiated emissions, the EUT is investigated for vertical and horizontal antenna orientations and X Y and Z orientations of the EUT alone. After the investigations the worst case was determined to be at X orientation for all LTE bands.

1.8 SUMMARY OF TEST RESULTS

FCC Part27 KDB 971168 D01 Power Meas License Digital Systems v03r01			
FCC Rule	Test Item	Verdict	Remark
2.1046	Conducted Output Power	PASS	
27.50(k)(4) KDB 971168 D01 Clause 5.7	Peak-to-Average Ratio	PASS	
2.1049 KDB 971168 D01 Clause 4.2	Occupied Bandwidth	PASS	
2.1051 27.53(l)(2), 27.50(n)(2), 23.53(g) KDB 971168 D01 Clause 6	Band Edge	PASS	
27.50(c)(10), KDB 971168 D01 Clause 5.6	Effective Radiated Power	PASS	
27.50(h)(2), 27.50 (j)(3) KDB 971168 D01 Clause 5.6	Equivalent Isotropic Radiated Power	PASS	
2.1053 27.50(n)(2), 27.53(l)(2), 27.53(g) , 27.53(m) KDB 971168 D01 Clause 7	Field Strength of Spurious Radiation	PASS	
2.1055 27.54 KDB 971168 D01 Clause 9	Frequency Stability for Temperature & Voltage	PASS	
Remark: 1. "N/A" denotes test is not applicable in this Test Report. 2. All test items were verified and recorded according to the standards and without any deviation during the test. 3. No modifications are made to the EUT during all test items.			

2. SYSTEM TEST CONFIGURATION

2.1 EUT CONFIGURATION

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

2.2 EUT EXERCISE

The Transmitter was operated in the maximum output power mode through Communication Tester. The TX frequency was fixed which was for the purpose of the measurements.

2.3 CONFIGURATION OF EUT SYSTEM

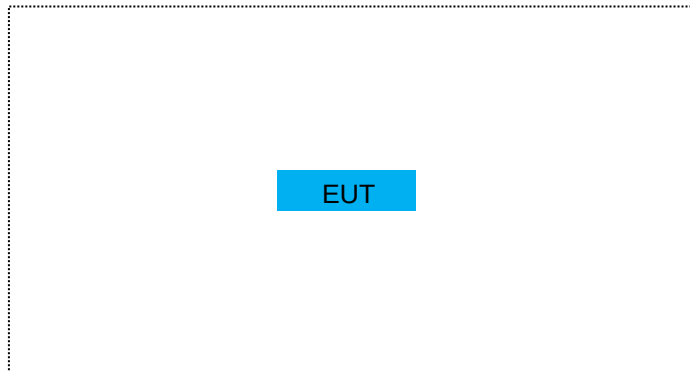
Table 2-1 Equipment Used in EUT System

Item	Equipment	Model No.	ID or Specification	Note
1	smartphone	A70	FCC ID: 2AZYA-A70	EUT

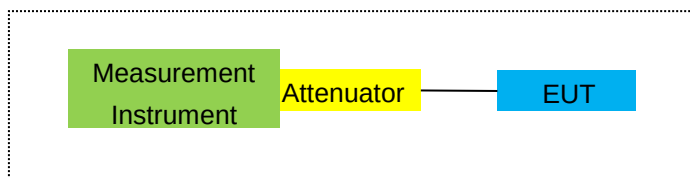
*Note: All the accessories have been used during the test.
the following “EUT” in setup diagram means EUT system.*

2.4 TEST SETUP

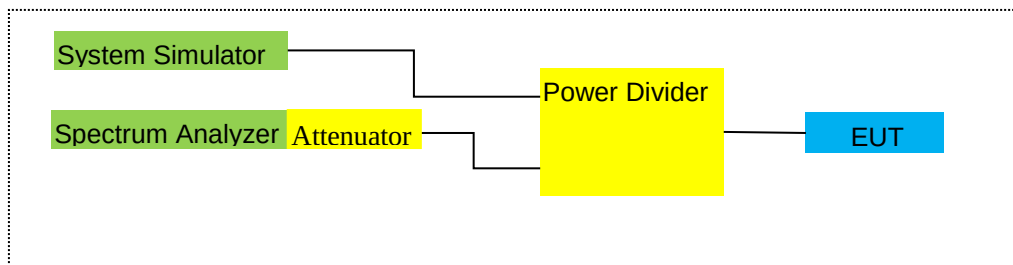
For Radiated Test Cases



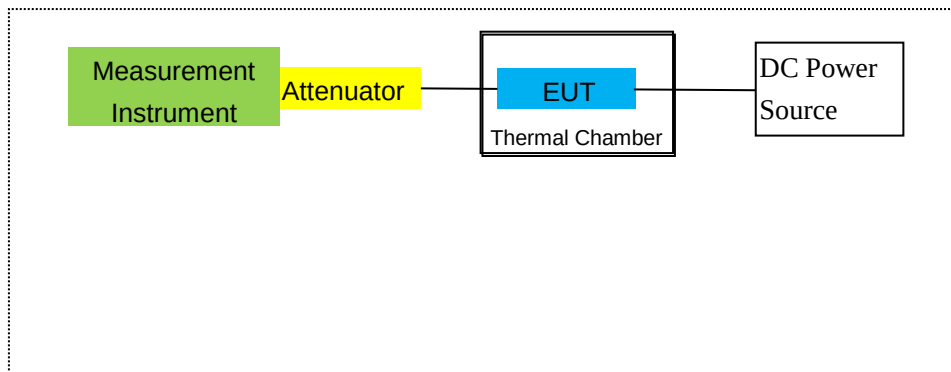
For Conducted Output Power



For Peak-to Average Ratio, Occupied Bandwidth, Conducted Band edge and Conducted Spurious Emission



For Frequency Stability



Note: EUT built-in battery-powered, the battery is fully-charged.

3.TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	MXA Signal Analyzer	Agilent	N9020A	MY49100060	2026.04.08	2027.04.07	1 year
2	Test Receiver	R&S	ESPI3	101417	2026.07.23	2027.07.22	1 year
3	Log-Periodic Antenna	SCHWARZBECK	VULB 9162	584	2026.04.11	2027.04.10	3 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2024.04.26	2027.04.25	3 year
5	Horn Antenna	EM	EM-AH-10180	2011071402	2024.05.12	2027.05.11	3 year
6	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2024.05.12	2027.05.11	3 year
7	Amplifier	EM	EM-30180	060538	2026.04.08	2027.04.07	1 year
8	Loop Antenna	ARA	PLA-1030/B	1029	2026.04.08	2027.04.07	1 year
9	Power Meter	R&S	NRVS	100696	2026.04.08	2027.04.07	1 year
10	Power Sensor	R&S	URV5-Z4	0395.1619.05	2026.04.08	2027.04.07	1 year
11	Test Cable	N/A	R-01	N/A	2024.06.16	2027.06.15	3 year
12	Test Cable	N/A	R-02	N/A	2024.06.16	2027.06.15	3 year
13	Test Cable	N/A	R-03	N/A	2024.06.16	2027.06.15	3 year
14	Test Receiver	R&S	ESCI	101160	2026.04.08	2027.04.07	1 year
15	LISN	R&S	ENV216	101313	2026.04.08	2027.04.07	1 year
16	LISN	EMCO	3816/2	00042990	2026.04.08	2027.04.07	1 year
17	50Ω Coaxial Switch	Anritsu	MP59B	6200264417	2026.04.08	2027.04.07	1 year
18	Passive Voltage Probe	R&S	ESH2-Z3	100196	2026.04.08	2027.04.07	1 year
19	Test Cable	N/A	C01	N/A	2024.05.06	2027.05.05	3 year
20	Test Cable	N/A	C02	N/A	2024.05.06	2027.05.05	3 year
21	Test Cable	N/A	C03	N/A	2024.05.06	2027.05.05	3 year
22	Attenuator	MCE	24-10-34	BN9258	2026.04.08	2027.04.07	1 year
23	Spectrum Analyzer	agilent	e4440a	us44300399	2026.04.08	2027.04.07	1 year
24	test receiver	R&S	ESCI	a0304218	2026.04.08	2027.04.07	1 year
25	Communication Tester	R&S	CMU200	A0304247	2026.04.08	2027.04.07	1 year

26	Thermal Chamber	Ten Billion	TTC-B3C	TBN-960502	2026.04.08	2027.04.07	1 year
27	DC Power Source	N/A	PS-6005D	20170402923	2024.05.06	2027.05.05	3 year
28	MXG Vector Signal Generator	Agilent	N5182A	MY47070317	2026.04.08	2027.04.07	1 year
29	Communication Tester	R&S	CMW500	148500	2026.04.27	2027.04.26	1 year
30	Log-Periodic Antenna	SCHWARZBECK	VULB 9168	1742	2025.11.01	2026.10.31	1 year
31	Horn Antenna	SCHWARZBECK	BBHA 9120D	2816	2024.05.18	2027.05.17	3 year
32	PSG Analog Signal Generator	Agilent	E8257D	MY51110112	2026.04.27	2027.04.26	1 year

Note: Each piece of equipment is scheduled for calibration once a year except the Test Cable& DC Power Source which is scheduled for calibration every 3 years.

Measurement Software

Item	Manufacturer	Software Name	Software Version	Description
1	MWRFTest	MTS 8200 NR	2.0	RF Conducted Test
2	Farad	EZ-EMC_RE	AIT-03A	RadiatedTest
3	raditeq	RadiMation	2023.1.3	RadiatedTest

4. OUTPUT POWER

4.1 OUTPUT POWER MEASUREMENT

NR Measurement Procedure:

All NR bands conducted power peak and average are obtained from the MT8821C telecommunication test set. The following tests were conducted according to the test requirements outlined in section 6.2 of the 3GPP TS 38.521-1 specification.

UE Power Class: 3 (23 +/- 2dBm). The allowed Maximum Power Reduction (MPR) for the maximum output power due to higher order modulation and transmit bandwidth configuration (resource blocks) is specified in Table Table 6.2.2.3-1: of the 3GPP TS 38.521-1 (V15.3.0) (07-2019).

Table 6.2.2.3-1: UE Power Class

EUTRA band	Class 1 (dBm)	Tolerance (dB)	Class 2 (dBm)	Tolerance (dB)	Class 3 (dBm)	Tolerance (dB)	Class 4 (dBm)	Tolerance (dB)
1					23	± 2		
2					23	$\pm 2^2$		
3					23	$\pm 2^2$		
4					23	± 2		
5					23	± 2		
6					23	± 2		
7					23	± 2		
8					23	± 2		
9					23	± 2		
10					23	± 2		
11					23	± 2		
12					23	± 2		
13					23	± 2		
14					23	± 2		
15					23	± 2		
16					23	± 2		
17					23	± 2		
18					23	± 2		
19					23	± 2		
20					23	± 2		
21					23	± 2		
22					23	± 2		
23					23	± 2		
24					23	± 2		
25					23	± 2		
26			26	± 2	23	± 2		
27					23	± 2		
28					23	± 2		
29					23	± 2		
30					23	± 2		
31					23	± 2		
32					23	± 2		
33					23	± 2		
34					23	± 2		
35					23	± 2		
36					23	± 2		
37					23	± 2		
38					23	± 2		
39					23	± 2		
40					23	± 2		
41					23	$\pm 2^2$		
42					23	$+2/-3$		
43					23	$+2/-3$		
44					23	$+2/[-3]$		
45					23	± 2		
46					23	± 2		
47			26	± 2	23	± 2		

The allowed A-MPR values specified below in Table 6.2.4.-1 of 3GPP TS 38.521-1 are in addition to the allowed MPR requirements. All the measurements below were performed with A-MPR disabled, by using Network Signaling Value of "NS_01".3

Test data reference attachment.

5. OCCUPIED BANDWIDTH

RULE PART(S)

FCC: §2.1049

LIMITS

For reporting purposes only

TEST PROCEDURE

The transmitter output was connected to a calibrated coaxial cable and coupler, the other end of which was connected to a spectrum analyzer. The occupied bandwidth was measured with the spectrum analyzer at the low, middle and high channel in each band. The -26dB bandwidth was also measured and recorded.

MODES TESTED

NR Band 7/41/71/78

RESULTS

PASS

Test data reference attachment.

6. BANDEDGE AND EMISSION MASK

RULE PART(S)

FCC: §2.1051, §22.901, §22.917, §24.238, §27.53, and §90.691

FCC: §22.359,

LIMITS

FCC: §22.917, §24.238, §27.53

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

(m)(4) For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees. Show citation box.

(c)(4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $65 + 10 \log (P)$ dB in a 6.25 kHz band segment, for mobile and portable stations;

FCC: §90.691 Emission mask requirements for EA-based systems.

(a) Out-of-band emission requirement shall apply only to the “outer” channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:

(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \log_{10}(f/6.1)$ decibels or $50 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

TEST PROCEDURE

The transmitter output was connected to a CMW500 Test Set and configured to operate at maximum power. The band edge emissions were measured at the required operating frequencies in each band on the Spectrum Analyzer.

For each band edge measurement:

Set the spectrum analyzer span to include the block edge frequency

Set a marker to point the corresponding band edge frequency in each test case.

Set resolution bandwidth to at least 1% of emission bandwidth.

MODES TESTED

NR Band 7/41/71/78

RESULTS

Test data reference attachment.

Note: Both DFT-s-OFDM: PI/2 BPSK/QPSK/16-QAM/64QAM/256QAM& CP-OFDM:

QPSK/16-QAM/64QAM/256QAM has been tested, the report just reported the worst case.

7. OUT OF BAND EMISSIONS

RULE PART(S)

FCC: §2.1051, §22.901, §22.917, §24.238, §27.53 and §90.691 (c)(g)(h)(m)

LIMITS

The minimum permissible attenuation level of any spurious emission is $43 + \log_{10}(P[\text{Watts}])$, where P is the transmitter power in Watts.

The minimum permissible attenuation level for Band 7 is as following.

Per 27.53(g) for operations in the 698-746 MHz band, in the 100 kHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least 30 kHz may be employed to demonstrate compliance with the out-of-band emissions limit.

Per 27.53(c.5) for operations in the 776-788 MHz band, in the 100 kHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least 30 kHz may be employed to demonstrate compliance with the out-of-band emissions limit.

For all plots showing emissions in the 763 – 775MHz and 793 – 805MHz band, the FCC limit per 27.53(c.4) is $65 + 10\log_{10}(P) = -35\text{dBm}$ in a 6.25kHz bandwidth.

Per 27.53(m) for operations in the BRS/EBS bands, 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.

TEST PROCEDURE

The RF output of the transmitter was connected to a spectrum analyzer through a calibrated coaxial cable. Sufficient scans were taken to show the out-of-band Emissions, if any, up to 10th harmonic. Multiple sweeps were recorded in maximum hold mode using a peak detector to ensure that the worst-case emissions were caught.

For each out of band emissions measurement:

- Set display line

- Set RBW & VBW to 100 kHz for the measurement below 1 GHz, and 1 MHz for the measurement above 1 GHz.

MODES TESTED

NR Band 7/41/71/78

MEASUREMENT METHOD

The test set up and general procedure is similar to conducted peak output power test. Only different for setting the measurement configuration of the measuring instrument of Spectrum Analyzer.

Test data reference attachment.

Note: Both DFT-s-OFDM:PI/2 BPSK/QPSK/16-QAM/64QAM/256QAM

CP-OFDM: QPSK/16-QAM/64QAM/256QAM has been tested, the report just reported the worst case.

8. RADIATED MEASUREMENT

8.1. RADIATED POWER (ERP & EIRP)

RULE PART(S)

FCC: §2.1046, §22.913, §24.232, §27.50 (h)(2), (b)(10), (c)(10), (d)(4)

LIMITS:

27.50 (c) (10) the following power and antenna height requirements apply to stations transmitting in the 698–746 MHz band, the portable stations (hand-held devices) are limited to 3 watts ERP.

27.50 (b)(10) Portable stations (hand-held devices) transmitting in the 746–757 MHz, 758–763 MHz, 776–793 MHz, and 805–806 MHz bands are limited to 3 watts ERP.

27.50 (d)(4) The following power and antenna height requirements apply to stations transmitting in the 1710–1755 MHz and 2110–2155 MHz bands: Fixed, mobile, and portable (hand-held) stations operating in the 1710–1755 MHz band are limited to 1 watt EIRP.

27.50 (h)(2) Mobile and other user stations in the 2500–2570 MHz and 2620–2690 MHz bands. Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

TEST PROCEDURE

ANSI/TIA-603-E Clause 2.2.17

KDB 971168 v02r01 RF power output using broadband peak and average power meter method.

KDB 971168 D01 Power Meas License Digital Systems v02r01, “Measurement Guidance for Certification of Licensed Digital Transmitters”

MODES TESTED

NR Band 7/41/71/78

RESULTS

Pass

8.2 NR BAND 7

Radiated Power (EIRP) for N7										
Mode	RB Allocation	UL Channel	Result						Limit (W)	Conclusion
			SG Level (dBm)	Cable Loss (dBm)	Antenna Factor (dBi)	Max. EIRP Average (dBm)	Max. EIRP Average (mW)	Polarization Of Max. EIRP		
10MHz Band QPSK	24/0	501000	17.37	4.54	9.00	21.83	152.405	Horizontal	2	Pass
		507000	17.79	4.69	9.00	22.10	162.181	Horizontal	2	Pass
		513000	17.43	4.71	9.00	21.72	148.594	Horizontal	2	Pass
15MHz Band QPSK	38/0	501500	17.29	4.55	9.00	21.74	149.279	Horizontal	2	Pass
		507000	16.87	3.91	9.00	21.96	157.036	Horizontal	2	Pass
		512500	17.99	4.72	9.00	22.27	168.655	Horizontal	2	Pass
20MHz Band QPSK	51/0	502000	18.04	4.56	9.00	22.48	177.011	Horizontal	2	Pass
		507000	17.01	3.91	9.00	22.10	162.181	Horizontal	2	Pass
		512000	17.34	4.73	9.00	21.61	144.877	Horizontal	2	Pass
10MHz Band QPSK	24/0	501000	15.83	4.54	9.00	20.29	106.905	Vertical	2	Pass
		507000	16.17	4.69	9.00	20.48	111.686	Vertical	2	Pass
		513000	16.14	4.71	9.00	20.43	110.408	Vertical	2	Pass
15MHz Band QPSK	38/0	501500	15.66	4.55	9.00	20.11	102.565	Vertical	2	Pass
		507000	15.21	3.91	9.00	20.30	107.152	Vertical	2	Pass
		512500	16.53	4.72	9.00	20.81	120.504	Vertical	2	Pass
20MHz Band QPSK	51/0	502000	16.75	4.56	9.00	21.19	131.522	Vertical	2	Pass
		507000	15.70	3.91	9.00	20.79	119.950	Vertical	2	Pass
		512000	16.20	4.73	9.00	20.47	111.429	Vertical	2	Pass

Radiated Power (EIRP) for N7										
Mode	RB Allocation	UL Channel	Result						Limit (W)	Conclusion
			SG Level (dBm)	Cable Loss (dBm)	Antenna Factor (dBi)	Max. EIRP Average (dBm)	Max. EIRP Average (mW)	Polarization Of Max. EIRP		
10MHz Band 16QAM	24/0	500202	16.65	4.54	9.00	21.11	129.122	Horizontal	2	Pass
		518598	16.87	4.69	9.00	21.18	131.220	Horizontal	2	Pass
		537000	16.41	4.71	9.00	20.70	117.490	Horizontal	2	Pass
15MHz Band 16QAM	38/0	500700	16.14	4.55	9.00	20.59	114.551	Horizontal	2	Pass
		518598	16.03	3.91	9.00	21.12	129.420	Horizontal	2	Pass
		536496	16.26	4.72	9.00	20.54	113.240	Horizontal	2	Pass
20MHz Band 16QAM	51/0	501204	16.53	4.56	9.00	20.97	125.026	Horizontal	2	Pass
		518598	15.93	3.91	9.00	21.02	126.474	Horizontal	2	Pass
		535998	17.02	4.73	9.00	21.29	134.586	Horizontal	2	Pass
10MHz Band 16QAM	24/0	500202	15.52	4.54	9.00	19.98	99.541	Vertical	2	Pass
		518598	15.22	4.69	9.00	19.53	89.743	Vertical	2	Pass
		537000	15.20	4.71	9.00	19.49	88.920	Vertical	2	Pass
15MHz Band 16QAM	38/0	500700	15.08	4.55	9.00	19.53	89.743	Vertical	2	Pass
		518598	14.54	3.91	9.00	19.63	91.833	Vertical	2	Pass
		536496	14.41	4.72	9.00	18.69	73.961	Vertical	2	Pass
20MHz Band 16QAM	51/0	501204	15.42	4.56	9.00	19.86	96.828	Vertical	2	Pass
		518598	14.40	3.91	9.00	19.49	88.920	Vertical	2	Pass
		535998	15.13	4.73	9.00	19.40	87.096	Vertical	2	Pass

Radiated Power (EIRP) for N7										
Mode	RB Allocation	UL Channel	Result						Limit (W)	Conclusion
			SG Level (dBm)	Cable Loss (dBm)	Antenna Factor (dBi)	Max. EIRP Average (dBm)	Max. EIRP Average (mW)	Polarization Of Max. EIRP		
10MHz Band 64QAM	24/0	500202	15.96	4.54	9.00	20.42	110.154	Horizontal	2	Pass
		518598	16.06	4.69	9.00	20.37	108.893	Horizontal	2	Pass
		537000	15.85	4.71	9.00	20.14	103.276	Horizontal	2	Pass
15MHz Band 64QAM	38/0	500700	15.43	4.55	9.00	19.88	97.275	Horizontal	2	Pass
		518598	14.93	3.91	9.00	20.02	100.462	Horizontal	2	Pass
		536496	15.78	4.72	9.00	20.06	101.391	Horizontal	2	Pass
20MHz Band 64QAM	51/0	501204	15.15	4.56	9.00	19.59	90.991	Horizontal	2	Pass
		518598	15.10	3.91	9.00	20.19	104.472	Horizontal	2	Pass
		535998	15.83	4.73	9.00	20.10	102.329	Horizontal	2	Pass
10MHz Band 64QAM	24/0	500202	14.70	4.54	9.00	19.16	82.414	Vertical	2	Pass
		518598	14.94	4.69	9.00	19.25	84.140	Vertical	2	Pass
		537000	14.80	4.71	9.00	19.09	81.096	Vertical	2	Pass
15MHz Band 64QAM	38/0	500700	13.76	4.55	9.00	18.21	66.222	Vertical	2	Pass
		518598	13.78	3.91	9.00	18.87	77.090	Vertical	2	Pass
		536496	14.06	4.72	9.00	18.34	68.234	Vertical	2	Pass
20MHz Band 64QAM	51/0	501204	13.55	4.56	9.00	17.99	62.951	Vertical	2	Pass
		518598	13.27	3.91	9.00	18.36	68.549	Vertical	2	Pass
		535998	14.83	4.73	9.00	19.10	81.283	Vertical	2	Pass

Radiated Power (EIRP) for N7										
Mode	RB Allocation	UL Channel	Result						Limit (W)	Conclusion
			SG Level (dBm)	Cable Loss (dBm)	Antenna Factor (dBi)	Max. EIRP Average (dBm)	Max. EIRP Average (mW)	Polarization Of Max. EIRP		
10MHz Band 256QAM	24/0	500202	14.59	4.54	9.00	19.05	80.353	Horizontal	2	Pass
		518598	14.94	4.69	9.00	19.25	84.140	Horizontal	2	Pass
		537000	14.34	4.71	9.00	18.63	72.946	Horizontal	2	Pass
15MHz Band 256QAM	38/0	500700	14.20	4.55	9.00	18.65	73.282	Horizontal	2	Pass
		518598	13.62	3.91	9.00	18.71	74.302	Horizontal	2	Pass
		536496	15.09	4.72	9.00	19.37	86.497	Horizontal	2	Pass
20MHz Band 256QAM	51/0	501204	14.66	4.56	9.00	19.10	81.283	Horizontal	2	Pass
		518598	13.80	3.91	9.00	18.89	77.446	Horizontal	2	Pass
		535998	14.31	4.73	9.00	18.58	72.111	Horizontal	2	Pass
10MHz Band 256QAM	24/0	500202	13.24	4.54	9.00	17.70	58.884	Vertical	2	Pass
		518598	13.19	4.69	9.00	17.50	56.234	Vertical	2	Pass
		537000	12.94	4.71	9.00	17.23	52.845	Vertical	2	Pass
15MHz Band 256QAM	38/0	500700	12.51	4.55	9.00	16.96	49.659	Vertical	2	Pass
		518598	11.69	3.91	9.00	16.78	47.643	Vertical	2	Pass
		536496	14.05	4.72	9.00	18.33	68.077	Vertical	2	Pass
20MHz Band 256QAM	51/0	501204	12.90	4.56	9.00	17.34	54.200	Vertical	2	Pass
		518598	12.31	3.91	9.00	17.40	54.954	Vertical	2	Pass
		535998	13.13	4.73	9.00	17.40	54.954	Vertical	2	Pass

Note:

SG Level= Signal generator output

Max. EIRP Average (dBm)= Antenna Gain(dB)+ SG Level (dBm)- Cable Loss(dBm)

Factor Gain(dB)=Antenna Gain(dB) + Amplifier Factor (dB)

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Radiated Power (EIRP) for N41										
Mode	RB Allocation	UL Channel	Result						Limit (W)	Conclusion
			SG Level (dBm)	Cable Loss (dBm)	Antenna Factor (dBi)	Max. EIRP Average (dBm)	Max. EIRP Average (mW)	Polarization Of Max. EIRP		
10MHz Band QPSK	24/0	500202	15.78	4.54	9.00	20.24	105.682	Horizontal	2	Pass
		518598	15.45	4.69	9.00	19.76	94.624	Horizontal	2	Pass
		537000	15.92	4.71	9.00	20.21	104.954	Horizontal	2	Pass
15MHz Band QPSK	38/0	500700	15.40	4.55	9.00	19.85	96.605	Horizontal	2	Pass
		518598	14.56	3.91	9.00	19.65	92.257	Horizontal	2	Pass
		536496	15.77	4.72	9.00	20.05	101.158	Horizontal	2	Pass
20MHz Band QPSK	51/0	501204	15.32	4.56	9.00	19.76	94.624	Horizontal	2	Pass
		518598	14.84	3.91	9.00	19.93	98.401	Horizontal	2	Pass
		535998	15.91	4.73	9.00	20.18	104.232	Horizontal	2	Pass
30MHz Band QPSK	78/0	502200	15.78	4.57	9.00	20.21	104.954	Horizontal	2	Pass
		518598	15.20	3.91	9.00	20.29	106.905	Horizontal	2	Pass
		534996	15.27	4.74	9.00	19.53	89.743	Horizontal	2	Pass
40MHz Band QPSK	106/0	503202	16.01	4.58	9.00	20.43	110.408	Horizontal	2	Pass
		518598	15.03	3.91	9.00	20.12	102.802	Horizontal	2	Pass
		534000	15.96	4.75	9.00	20.21	104.954	Horizontal	2	Pass
50MHz Band QPSK	133/0	504204	15.33	4.59	9.00	19.74	94.189	Horizontal	2	Pass
		518598	15.31	3.91	9.00	20.40	109.648	Horizontal	2	Pass
		532998	15.97	4.76	9.00	20.21	104.954	Horizontal	2	Pass
60MHz Band QPSK	162/0	505200	15.29	4.60	9.00	19.69	93.111	Horizontal	2	Pass
		518598	15.27	3.91	9.00	20.36	108.643	Horizontal	2	Pass
		531996	16.26	4.77	9.00	20.49	111.944	Horizontal	2	Pass
70MHz Band QPSK	189/0	506202	15.19	4.61	9.00	19.58	90.782	Horizontal	2	Pass
		518598	15.39	3.91	9.00	20.48	111.686	Horizontal	2	Pass
		531000	16.25	4.78	9.00	20.47	111.429	Horizontal	2	Pass
80MHz Band QPSK	217/0	507204	15.81	4.62	9.00	20.19	104.472	Horizontal	2	Pass
		518598	15.30	3.91	9.00	20.39	109.396	Horizontal	2	Pass
		529998	15.63	4.79	9.00	19.84	96.383	Horizontal	2	Pass
90MHz Band QPSK	245/0	508200	15.56	4.63	9.00	19.93	98.401	Horizontal	2	Pass
		518598	15.39	3.91	9.00	20.48	111.686	Horizontal	2	Pass
		528996	15.91	4.80	9.00	20.11	102.565	Horizontal	2	Pass

100MHz Band QPSK	273/0	509202	15.99	4.64	9.00	20.35	108.393	Horizontal	2	Pass
		518598	14.71	3.91	9.00	19.80	95.499	Horizontal	2	Pass
		528000	16.19	4.81	9.00	20.38	109.144	Horizontal	2	Pass
10MHz Band QPSK	24/0	500202	14.36	4.54	9.00	18.82	76.208	Vertical	2	Pass
		518598	14.42	4.69	9.00	18.73	74.645	Vertical	2	Pass
		537000	14.70	4.71	9.00	18.99	79.250	Vertical	2	Pass
15MHz Band QPSK	38/0	500700	13.62	4.55	9.00	18.07	64.121	Vertical	2	Pass
		518598	13.48	3.91	9.00	18.57	71.945	Vertical	2	Pass
		536496	14.37	4.72	9.00	18.65	73.282	Vertical	2	Pass
20MHz Band QPSK	51/0	501204	14.15	4.56	9.00	18.59	72.277	Vertical	2	Pass
		518598	13.74	3.91	9.00	18.83	76.384	Vertical	2	Pass
		535998	14.77	4.73	9.00	19.04	80.168	Vertical	2	Pass
30MHz Band QPSK	78/0	502200	14.09	4.57	9.00	18.52	71.121	Vertical	2	Pass
		518598	13.58	3.91	9.00	18.67	73.621	Vertical	2	Pass
		534996	13.95	4.74	9.00	18.21	66.222	Vertical	2	Pass
40MHz Band QPSK	106/0	503202	14.89	4.58	9.00	19.31	85.310	Vertical	2	Pass
		518598	13.31	3.91	9.00	18.40	69.183	Vertical	2	Pass
		534000	14.02	4.75	9.00	18.27	67.143	Vertical	2	Pass
50MHz Band QPSK	133/0	504204	13.60	4.59	9.00	18.01	63.241	Vertical	2	Pass
		518598	13.79	3.91	9.00	18.88	77.268	Vertical	2	Pass
		532998	14.30	4.76	9.00	18.54	71.450	Vertical	2	Pass
60MHz Band QPSK	162/0	505200	14.26	4.60	9.00	18.66	73.451	Vertical	2	Pass
		518598	13.36	3.91	9.00	18.45	69.984	Vertical	2	Pass
		531996	15.15	4.77	9.00	19.38	86.696	Vertical	2	Pass
70MHz Band QPSK	189/0	506202	13.41	4.61	9.00	17.80	60.256	Vertical	2	Pass
		518598	14.31	3.91	9.00	19.40	87.096	Vertical	2	Pass
		531000	14.38	4.78	9.00	18.60	72.444	Vertical	2	Pass
80MHz Band QPSK	217/0	507204	14.79	4.62	9.00	19.17	82.604	Vertical	2	Pass
		518598	13.54	3.91	9.00	18.63	72.946	Vertical	2	Pass
		529998	13.89	4.79	9.00	18.10	64.565	Vertical	2	Pass
90MHz Band QPSK	245/0	508200	14.41	4.63	9.00	18.78	75.509	Vertical	2	Pass
		518598	13.51	3.91	9.00	18.60	72.444	Vertical	2	Pass
		528996	14.40	4.80	9.00	18.60	72.444	Vertical	2	Pass
100MHz Band QPSK	273/0	509202	14.52	4.64	9.00	18.88	77.268	Vertical	2	Pass
		518598	13.70	3.91	9.00	18.79	75.683	Vertical	2	Pass
		528000	14.88	4.81	9.00	19.07	80.724	Vertical	2	Pass

Radiated Power (EIRP) for N41										
Mode	RB Allocation	UL Channel	Result						Limit (W)	Conclusion
			SG Level (dBm)	Cable Loss (dBm)	Antenna Factor (dBi)	Max. EIRP Average (dBm)	Max. EIRP Average (mW)	Polarization Of Max. EIRP		
10MHz Band 16QAM	24/0	500202	15.38	4.54	9.00	19.84	96.383	Horizontal	2	Pass
		518598	15.97	4.69	9.00	20.28	106.660	Horizontal	2	Pass
		537000	15.21	4.71	9.00	19.50	89.125	Horizontal	2	Pass
15MHz Band 16QAM	38/0	500700	15.31	4.55	9.00	19.76	94.624	Horizontal	2	Pass
		518598	14.85	3.91	9.00	19.94	98.628	Horizontal	2	Pass
		536496	15.61	4.72	9.00	19.89	97.499	Horizontal	2	Pass
20MHz Band 16QAM	51/0	501204	15.63	4.56	9.00	20.07	101.625	Horizontal	2	Pass
		518598	14.90	3.91	9.00	19.99	99.770	Horizontal	2	Pass
		535998	15.95	4.73	9.00	20.22	105.196	Horizontal	2	Pass
30MHz Band 16QAM	78/0	502200	15.60	4.57	9.00	20.03	100.693	Horizontal	2	Pass
		518598	14.92	3.91	9.00	20.01	100.231	Horizontal	2	Pass
		534996	15.80	4.74	9.00	20.06	101.391	Horizontal	2	Pass
40MHz Band 16QAM	106/0	503202	15.26	4.58	9.00	19.68	92.897	Horizontal	2	Pass
		518598	14.43	3.91	9.00	19.52	89.536	Horizontal	2	Pass
		534000	15.59	4.75	9.00	19.84	96.383	Horizontal	2	Pass
50MHz Band 16QAM	133/0	504204	15.45	4.59	9.00	19.86	96.828	Horizontal	2	Pass
		518598	14.35	3.91	9.00	19.44	87.902	Horizontal	2	Pass
		532998	15.38	4.76	9.00	19.62	91.622	Horizontal	2	Pass
60MHz Band 16QAM	162/0	505200	15.41	4.60	9.00	19.81	95.719	Horizontal	2	Pass
		518598	14.42	3.91	9.00	19.51	89.331	Horizontal	2	Pass
		531996	15.35	4.77	9.00	19.58	90.782	Horizontal	2	Pass
70MHz Band 16QAM	189/0	506202	15.30	4.61	9.00	19.69	93.111	Horizontal	2	Pass
		518598	15.14	3.91	9.00	20.23	105.439	Horizontal	2	Pass
		531000	15.66	4.78	9.00	19.88	97.275	Horizontal	2	Pass
80MHz Band 16QAM	217/0	507204	15.61	4.62	9.00	19.99	99.770	Horizontal	2	Pass
		518598	15.05	3.91	9.00	20.14	103.276	Horizontal	2	Pass
		529998	15.72	4.79	9.00	19.93	98.401	Horizontal	2	Pass
90MHz Band 16QAM	245/0	508200	15.62	4.63	9.00	19.99	99.770	Horizontal	2	Pass
		518598	14.42	3.91	9.00	19.51	89.331	Horizontal	2	Pass
		528996	15.50	4.80	9.00	19.70	93.325	Horizontal	2	Pass
100MHz Band 16QAM	273/0	509202	15.81	4.64	9.00	20.17	103.992	Horizontal	2	Pass
		518598	15.01	3.91	9.00	20.10	102.329	Horizontal	2	Pass
		528000	15.67	4.81	9.00	19.86	96.828	Horizontal	2	Pass

10MHz Band 16QAM	24/0	500202	13.57	4.54	9.00	18.03	63.533	Vertical	2	Pass
		518598	14.54	4.69	9.00	18.85	76.736	Vertical	2	Pass
		537000	13.21	4.71	9.00	17.50	56.234	Vertical	2	Pass
15MHz Band 16QAM	38/0	500700	14.30	4.55	9.00	18.75	74.989	Vertical	2	Pass
		518598	13.12	3.91	9.00	18.21	66.222	Vertical	2	Pass
		536496	14.45	4.72	9.00	18.73	74.645	Vertical	2	Pass
20MHz Band 16QAM	51/0	501204	14.15	4.56	9.00	18.59	72.277	Vertical	2	Pass
		518598	13.41	3.91	9.00	18.50	70.795	Vertical	2	Pass
		535998	14.65	4.73	9.00	18.92	77.983	Vertical	2	Pass
30MHz Band 16QAM	78/0	502200	13.72	4.57	9.00	18.15	65.313	Vertical	2	Pass
		518598	13.09	3.91	9.00	18.18	65.766	Vertical	2	Pass
		534996	14.80	4.74	9.00	19.06	80.538	Vertical	2	Pass
40MHz Band 16QAM	106/0	503202	13.52	4.58	9.00	17.94	62.230	Vertical	2	Pass
		518598	13.11	3.91	9.00	18.20	66.069	Vertical	2	Pass
		534000	13.98	4.75	9.00	18.23	66.527	Vertical	2	Pass
50MHz Band 16QAM	133/0	504204	13.96	4.59	9.00	18.37	68.707	Vertical	2	Pass
		518598	12.88	3.91	9.00	17.97	62.661	Vertical	2	Pass
		532998	14.00	4.76	9.00	18.24	66.681	Vertical	2	Pass
60MHz Band 16QAM	162/0	505200	13.54	4.60	9.00	17.94	62.230	Vertical	2	Pass
		518598	13.29	3.91	9.00	18.38	68.865	Vertical	2	Pass
		531996	14.12	4.77	9.00	18.35	68.391	Vertical	2	Pass
70MHz Band 16QAM	189/0	506202	13.48	4.61	9.00	17.87	61.235	Vertical	2	Pass
		518598	14.01	3.91	9.00	19.10	81.283	Vertical	2	Pass
		531000	13.90	4.78	9.00	18.12	64.863	Vertical	2	Pass
80MHz Band 16QAM	217/0	507204	13.70	4.62	9.00	18.08	64.269	Vertical	2	Pass
		518598	13.40	3.91	9.00	18.49	70.632	Vertical	2	Pass
		529998	14.17	4.79	9.00	18.38	68.865	Vertical	2	Pass
90MHz Band 16QAM	245/0	508200	14.30	4.63	9.00	18.67	73.621	Vertical	2	Pass
		518598	13.10	3.91	9.00	18.19	65.917	Vertical	2	Pass
		528996	13.71	4.80	9.00	17.91	61.802	Vertical	2	Pass
100MHz Band 16QAM	273/0	509202	14.06	4.64	9.00	18.42	69.502	Vertical	2	Pass
		518598	13.05	3.91	9.00	18.14	65.163	Vertical	2	Pass
		528000	14.16	4.81	9.00	18.35	68.391	Vertical	2	Pass

Radiated Power (EIRP) for N41										
Mode	RB Allocation	UL Channel	Result						Limit (W)	Conclusion
			SG Level (dBm)	Cable Loss (dBm)	Antenna Factor (dBi)	Max. EIRP Average (dBm)	Max. EIRP Average (mW)	Polarization Of Max. EIRP		
10MHz Band 64QAM	24/0	500202	15.21	4.54	9.00	19.67	92.683	Horizontal	2	Pass
		518598	15.53	4.69	9.00	19.84	96.383	Horizontal	2	Pass
		537000	14.89	4.71	9.00	19.18	82.794	Horizontal	2	Pass
15MHz Band 64QAM	38/0	500700	15.26	4.55	9.00	19.71	93.541	Horizontal	2	Pass
		518598	13.99	3.91	9.00	19.08	80.910	Horizontal	2	Pass
		536496	15.31	4.72	9.00	19.59	90.991	Horizontal	2	Pass
20MHz Band 64QAM	51/0	501204	15.03	4.56	9.00	19.47	88.512	Horizontal	2	Pass
		518598	14.60	3.91	9.00	19.69	93.111	Horizontal	2	Pass
		535998	15.08	4.73	9.00	19.35	86.099	Horizontal	2	Pass
30MHz Band 64QAM	78/0	502200	14.82	4.57	9.00	19.25	84.140	Horizontal	2	Pass
		518598	14.16	3.91	9.00	19.25	84.140	Horizontal	2	Pass
		534996	15.08	4.74	9.00	19.34	85.901	Horizontal	2	Pass
40MHz Band 64QAM	106/0	503202	14.74	4.58	9.00	19.16	82.414	Horizontal	2	Pass
		518598	14.78	3.91	9.00	19.87	97.051	Horizontal	2	Pass
		534000	15.29	4.75	9.00	19.54	89.950	Horizontal	2	Pass
50MHz Band 64QAM	133/0	504204	15.36	4.59	9.00	19.77	94.842	Horizontal	2	Pass
		518598	14.68	3.91	9.00	19.77	94.842	Horizontal	2	Pass
		532998	15.02	4.76	9.00	19.26	84.333	Horizontal	2	Pass
60MHz Band 64QAM	162/0	505200	15.02	4.60	9.00	19.42	87.498	Horizontal	2	Pass
		518598	14.25	3.91	9.00	19.34	85.901	Horizontal	2	Pass
		531996	15.07	4.77	9.00	19.30	85.114	Horizontal	2	Pass
70MHz Band 64QAM	189/0	506202	15.56	4.61	9.00	19.95	98.855	Horizontal	2	Pass
		518598	14.86	3.91	9.00	19.95	98.855	Horizontal	2	Pass
		531000	15.47	4.78	9.00	19.69	93.111	Horizontal	2	Pass
80MHz Band 64QAM	217/0	507204	15.17	4.62	9.00	19.55	90.157	Horizontal	2	Pass
		518598	14.07	3.91	9.00	19.16	82.414	Horizontal	2	Pass
		529998	15.63	4.79	9.00	19.84	96.383	Horizontal	2	Pass
90MHz Band 64QAM	245/0	508200	14.78	4.63	9.00	19.15	82.224	Horizontal	2	Pass
		518598	14.33	3.91	9.00	19.42	87.498	Horizontal	2	Pass
		528996	15.61	4.80	9.00	19.81	95.719	Horizontal	2	Pass
100MHz Band 64QAM	273/0	509202	15.19	4.64	9.00	19.55	90.157	Horizontal	2	Pass
		518598	14.41	3.91	9.00	19.50	89.125	Horizontal	2	Pass
		528000	15.61	4.81	9.00	19.80	95.499	Horizontal	2	Pass

10MHz Band 64QAM	24/0	500202	13.62	4.54	9.00	18.08	64.269	Vertical	2	Pass
		518598	13.72	4.69	9.00	18.03	63.533	Vertical	2	Pass
		537000	13.00	4.71	9.00	17.29	53.580	Vertical	2	Pass
15MHz Band 64QAM	38/0	500700	14.23	4.55	9.00	18.68	73.790	Vertical	2	Pass
		518598	12.25	3.91	9.00	17.34	54.200	Vertical	2	Pass
		536496	13.96	4.72	9.00	18.24	66.681	Vertical	2	Pass
20MHz Band 64QAM	51/0	501204	13.95	4.56	9.00	18.39	69.024	Vertical	2	Pass
		518598	13.00	3.91	9.00	18.09	64.417	Vertical	2	Pass
		535998	13.96	4.73	9.00	18.23	66.527	Vertical	2	Pass
30MHz Band 64QAM	78/0	502200	12.99	4.57	9.00	17.42	55.208	Vertical	2	Pass
		518598	12.98	3.91	9.00	18.07	64.121	Vertical	2	Pass
		534996	13.65	4.74	9.00	17.91	61.802	Vertical	2	Pass
40MHz Band 64QAM	106/0	503202	12.89	4.58	9.00	17.31	53.827	Vertical	2	Pass
		518598	13.77	3.91	9.00	18.86	76.913	Vertical	2	Pass
		534000	13.51	4.75	9.00	17.76	59.704	Vertical	2	Pass
50MHz Band 64QAM	133/0	504204	13.48	4.59	9.00	17.89	61.518	Vertical	2	Pass
		518598	12.95	3.91	9.00	18.04	63.680	Vertical	2	Pass
		532998	13.08	4.76	9.00	17.32	53.951	Vertical	2	Pass
60MHz Band 64QAM	162/0	505200	13.53	4.60	9.00	17.93	62.087	Vertical	2	Pass
		518598	12.25	3.91	9.00	17.34	54.200	Vertical	2	Pass
		531996	13.70	4.77	9.00	17.93	62.087	Vertical	2	Pass
70MHz Band 64QAM	189/0	506202	14.46	4.61	9.00	18.85	76.736	Vertical	2	Pass
		518598	13.05	3.91	9.00	18.14	65.163	Vertical	2	Pass
		531000	13.75	4.78	9.00	17.97	62.661	Vertical	2	Pass
80MHz Band 64QAM	217/0	507204	13.94	4.62	9.00	18.32	67.920	Vertical	2	Pass
		518598	12.19	3.91	9.00	17.28	53.456	Vertical	2	Pass
		529998	14.35	4.79	9.00	18.56	71.779	Vertical	2	Pass
90MHz Band 64QAM	245/0	508200	13.77	4.63	9.00	18.14	65.163	Vertical	2	Pass
		518598	12.81	3.91	9.00	17.90	61.660	Vertical	2	Pass
		528996	14.43	4.80	9.00	18.63	72.946	Vertical	2	Pass
100MHz Band 64QAM	273/0	509202	14.17	4.64	9.00	18.53	71.285	Vertical	2	Pass
		518598	13.19	3.91	9.00	18.28	67.298	Vertical	2	Pass
		528000	14.21	4.81	9.00	18.40	69.183	Vertical	2	Pass

Radiated Power (EIRP) for N41										
Mode	RB Allocation	UL Channel	Result						Limit (W)	Conclusion
			SG Level (dBm)	Cable Loss (dBm)	Antenna Factor (dBi)	Max. EIRP Average (dBm)	Max. EIRP Average (mW)	Polarization Of Max. EIRP		
10MHz Band 256QAM	24/0	500202	14.42	4.54	9.00	18.88	77.268	Horizontal	2	Pass
		518598	14.87	4.69	9.00	19.18	82.794	Horizontal	2	Pass
		537000	14.69	4.71	9.00	18.98	79.068	Horizontal	2	Pass
15MHz Band 256QAM	38/0	500700	14.11	4.55	9.00	18.56	71.779	Horizontal	2	Pass
		518598	14.13	3.91	9.00	19.22	83.560	Horizontal	2	Pass
		536496	14.97	4.72	9.00	19.25	84.140	Horizontal	2	Pass
20MHz Band 256QAM	51/0	501204	14.97	4.56	9.00	19.41	87.297	Horizontal	2	Pass
		518598	14.24	3.91	9.00	19.33	85.704	Horizontal	2	Pass
		535998	14.33	4.73	9.00	18.60	72.444	Horizontal	2	Pass
30MHz Band 256QAM	78/0	502200	14.48	4.57	9.00	18.91	77.804	Horizontal	2	Pass
		518598	13.79	3.91	9.00	18.88	77.268	Horizontal	2	Pass
		534996	15.21	4.74	9.00	19.47	88.512	Horizontal	2	Pass
40MHz Band 256QAM	106/0	503202	14.87	4.58	9.00	19.29	84.918	Horizontal	2	Pass
		518598	14.32	3.91	9.00	19.41	87.297	Horizontal	2	Pass
		534000	14.33	4.75	9.00	18.58	72.111	Horizontal	2	Pass
50MHz Band 256QAM	133/0	504204	14.97	4.59	9.00	19.38	86.696	Horizontal	2	Pass
		518598	13.49	3.91	9.00	18.58	72.111	Horizontal	2	Pass
		532998	14.41	4.76	9.00	18.65	73.282	Horizontal	2	Pass
60MHz Band 256QAM	162/0	505200	14.89	4.60	9.00	19.29	84.918	Horizontal	2	Pass
		518598	13.45	3.91	9.00	18.54	71.450	Horizontal	2	Pass
		531996	14.85	4.77	9.00	19.08	80.910	Horizontal	2	Pass
70MHz Band 256QAM	189/0	506202	14.79	4.61	9.00	19.18	82.794	Horizontal	2	Pass
		518598	14.04	3.91	9.00	19.13	81.846	Horizontal	2	Pass
		531000	14.75	4.78	9.00	18.97	78.886	Horizontal	2	Pass
80MHz	217/0	507204	14.67	4.62	9.00	19.05	80.353	Horizontal	2	Pass

Band 256QA M		518598	14.10	3.91	9.00	19.19	82.985	Horizontal	2	Pass
		529998	14.80	4.79	9.00	19.01	79.616	Horizontal	2	Pass
90MHz Band 256QA M	245/0	508200	15.07	4.63	9.00	19.44	87.902	Horizontal	2	Pass
		518598	13.80	3.91	9.00	18.89	77.446	Horizontal	2	Pass
		528996	15.27	4.80	9.00	19.47	88.512	Horizontal	2	Pass
100MHz Band 256QA M	273/0	509202	15.04	4.64	9.00	19.40	87.096	Horizontal	2	Pass
		518598	14.36	3.91	9.00	19.45	88.105	Horizontal	2	Pass
		528000	14.83	4.81	9.00	19.02	79.799	Horizontal	2	Pass
10MHz Band 256QA M	24/0	500202	12.94	4.54	9.00	17.40	54.954	Vertical	2	Pass
		518598	13.75	4.69	9.00	18.06	63.973	Vertical	2	Pass
		537000	13.37	4.71	9.00	17.66	58.345	Vertical	2	Pass
15MHz Band 256QA M	38/0	500700	12.58	4.55	9.00	17.03	50.466	Vertical	2	Pass
		518598	13.02	3.91	9.00	18.11	64.714	Vertical	2	Pass
		536496	13.24	4.72	9.00	17.52	56.494	Vertical	2	Pass
20MHz Band 256QA M	51/0	501204	13.52	4.56	9.00	17.96	62.517	Vertical	2	Pass
		518598	12.45	3.91	9.00	17.54	56.754	Vertical	2	Pass
		535998	12.82	4.73	9.00	17.09	51.168	Vertical	2	Pass
30MHz Band 256QA M	78/0	502200	13.41	4.57	9.00	17.84	60.814	Vertical	2	Pass
		518598	12.19	3.91	9.00	17.28	53.456	Vertical	2	Pass
		534996	13.58	4.74	9.00	17.84	60.814	Vertical	2	Pass
40MHz Band 256QA M	106/0	503202	13.02	4.58	9.00	17.44	55.463	Vertical	2	Pass
		518598	13.20	3.91	9.00	18.29	67.453	Vertical	2	Pass
		534000	12.94	4.75	9.00	17.19	52.360	Vertical	2	Pass
50MHz Band 256QA M	133/0	504204	13.48	4.59	9.00	17.89	61.518	Vertical	2	Pass
		518598	11.70	3.91	9.00	16.79	47.753	Vertical	2	Pass
		532998	12.74	4.76	9.00	16.98	49.888	Vertical	2	Pass
60MHz Band 256QA M	162/0	505200	13.15	4.60	9.00	17.55	56.885	Vertical	2	Pass
		518598	11.46	3.91	9.00	16.55	45.186	Vertical	2	Pass
		531996	13.20	4.77	9.00	17.43	55.335	Vertical	2	Pass
70MHz Band	189/0	506202	13.68	4.61	9.00	18.07	64.121	Vertical	2	Pass
		518598	12.79	3.91	9.00	17.88	61.376	Vertical	2	Pass

256QAM		531000	13.25	4.78	9.00	17.47	55.847	Vertical	2	Pass
80MHz Band 256QAM	217/0	507204	13.55	4.62	9.00	17.93	62.087	Vertical	2	Pass
		518598	13.03	3.91	9.00	18.12	64.863	Vertical	2	Pass
		529998	13.27	4.79	9.00	17.48	55.976	Vertical	2	Pass
90MHz Band 256QAM	245/0	508200	13.43	4.63	9.00	17.80	60.256	Vertical	2	Pass
		518598	12.35	3.91	9.00	17.44	55.463	Vertical	2	Pass
		528996	14.19	4.80	9.00	18.39	69.024	Vertical	2	Pass
100MHz Band 256QAM	273/0	509202	13.15	4.64	9.00	17.51	56.364	Vertical	2	Pass
		518598	12.73	3.91	9.00	17.82	60.534	Vertical	2	Pass
		528000	13.72	4.81	9.00	17.91	61.802	Vertical	2	Pass

Note:

SG Level= Signal generator output

Max. EIRP Average (dBm)= Antenna Gain(dB)+ SG Level (dBm)- Cable Loss(dBm)

Factor Gain(dB)=Antenna Gain(dB) + Amplifier Factor (dB)

8.4 NR BAND 71

Radiated Power (ERP) for N71										
Mode	RB Allocation	UL Channel	Result						Limit (W)	Conclusion
			SG Level (dBm)	Cable Loss (dBm)	Antenna Factor (dBi)	Max. ERP Average (dBm)	Max. ERP Average (mW)	Polarization Of Max. EIRP		
10MHz Band QPSK	24/0	133600	15.65	1.91	5.60	17.19	52.360	Horizontal	3	Pass
		136100	14.91	1.91	5.60	16.45	44.157	Horizontal	3	Pass
		138600	15.81	1.92	5.60	17.34	54.200	Horizontal	3	Pass
15MHz Band QPSK	38/0	134100	15.44	1.92	5.60	16.97	49.774	Horizontal	3	Pass
		136100	15.48	1.91	5.60	17.02	50.350	Horizontal	3	Pass
		138100	15.16	1.93	5.60	16.68	46.559	Horizontal	3	Pass
20MHz Band QPSK	51/0	134600	15.80	1.93	5.60	17.32	53.951	Horizontal	3	Pass
		136100	15.40	1.91	5.60	16.94	49.431	Horizontal	3	Pass
		137600	15.65	1.94	5.60	17.16	52.000	Horizontal	3	Pass
10MHz Band QPSK	24/0	133600	16.52	1.91	5.60	18.06	63.973	Vertical	3	Pass
		136100	15.84	1.91	5.60	17.38	54.702	Vertical	3	Pass
		138600	16.24	1.92	5.60	17.77	59.841	Vertical	3	Pass
15MHz Band QPSK	38/0	134100	15.75	1.92	5.60	17.28	53.456	Vertical	3	Pass
		136100	16.56	1.91	5.60	18.10	64.565	Vertical	3	Pass
		138100	15.75	1.93	5.60	17.27	53.333	Vertical	3	Pass
20MHz Band QPSK	51/0	134600	15.96	1.93	5.60	17.48	55.976	Vertical	3	Pass
		136100	16.30	1.91	5.60	17.84	60.814	Vertical	3	Pass
		137600	16.72	1.94	5.60	18.23	66.527	Vertical	3	Pass

Radiated Power (ERP) for N71										
Mode	RB Allocation	UL Channel	Result						Limit (W)	Conclusion
			SG Level (dBm)	Cable Loss (dBm)	Antenna Factor (dBi)	Max. ERP Average (dBm)	Max. ERP Average (mW)	Polarization Of Max. EIRP		
10MHz Band 16QAM	24/0	133600	14.63	1.91	5.60	18.32	67.920	Horizontal	3	Pass
		136100	14.06	1.91	5.60	17.75	59.566	Horizontal	3	Pass
		138600	14.53	1.92	5.60	18.21	66.222	Horizontal	3	Pass
15MHz Band 16QAM	38/0	134100	14.63	1.92	5.60	18.31	67.764	Horizontal	3	Pass
		136100	14.46	1.91	5.60	18.15	65.313	Horizontal	3	Pass
		138100	14.97	1.93	5.60	18.64	73.114	Horizontal	3	Pass
20MHz Band 16QAM	51/0	134600	14.09	1.93	5.60	17.76	59.704	Horizontal	3	Pass
		136100	14.88	1.91	5.60	18.57	71.945	Horizontal	3	Pass
		137600	14.19	1.94	5.60	17.85	60.954	Horizontal	3	Pass
10MHz Band 16QAM	24/0	133600	13.44	1.91	5.60	17.13	51.642	Vertical	3	Pass
		136100	12.62	1.91	5.60	16.31	42.756	Vertical	3	Pass
		138600	13.14	1.92	5.60	16.82	48.084	Vertical	3	Pass
15MHz Band 16QAM	38/0	134100	13.49	1.92	5.60	17.17	52.119	Vertical	3	Pass
		136100	12.97	1.91	5.60	16.66	46.345	Vertical	3	Pass
		138100	12.99	1.93	5.60	16.66	46.345	Vertical	3	Pass
20MHz Band 16QAM	51/0	134600	12.42	1.93	5.60	16.09	40.644	Vertical	3	Pass
		136100	12.91	1.91	5.60	16.60	45.709	Vertical	3	Pass
		137600	12.98	1.94	5.60	16.64	46.132	Vertical	3	Pass

Radiated Power (ERP) for N71										
Mode	RB Allocation	UL Channel	Result						Limit (W)	Conclusion
			SG Level (dBm)	Cable Loss (dBm)	Antenna Factor (dBi)	Max. ERP Average (dBm)	Max. ERP Average (mW)	Polarization Of Max. EIRP		
10MHz Band 64QAM	24/0	133600	13.79	1.91	5.60	17.48	55.976	Horizontal	3	Pass
		136100	14.01	1.91	5.60	17.70	58.884	Horizontal	3	Pass
		138600	13.66	1.92	5.60	17.34	54.200	Horizontal	3	Pass
15MHz Band 64QAM	38/0	134100	13.52	1.92	5.60	17.20	52.481	Horizontal	3	Pass
		136100	13.33	1.91	5.60	17.02	50.350	Horizontal	3	Pass
		138100	13.78	1.93	5.60	17.45	55.590	Horizontal	3	Pass
20MHz Band 64QAM	51/0	134600	13.59	1.93	5.60	17.26	53.211	Horizontal	3	Pass
		136100	13.59	1.91	5.60	17.28	53.456	Horizontal	3	Pass
		137600	13.38	1.94	5.60	17.04	50.582	Horizontal	3	Pass
10MHz Band 64QAM	24/0	133600	12.43	1.91	5.60	16.12	40.926	Vertical	3	Pass
		136100	12.58	1.91	5.60	16.27	42.364	Vertical	3	Pass
		138600	12.23	1.92	5.60	15.91	38.994	Vertical	3	Pass
15MHz Band 64QAM	38/0	134100	12.32	1.92	5.60	16.00	39.811	Vertical	3	Pass
		136100	12.08	1.91	5.60	15.77	37.757	Vertical	3	Pass
		138100	11.79	1.93	5.60	15.46	35.156	Vertical	3	Pass
20MHz Band 64QAM	51/0	134600	11.68	1.93	5.60	15.35	34.277	Vertical	3	Pass
		136100	12.00	1.91	5.60	15.69	37.068	Vertical	3	Pass
		137600	11.58	1.94	5.60	15.24	33.420	Vertical	3	Pass

Radiated Power (ERP) for N71									
Mode	RB Allocation	UL Channel	Result						Limit (W)
			SG Level (dBm)	Cable Loss (dBm)	Antenna Factor (dBi)	Max. ERP Average (dBm)	Max. ERP Average (mW)	Polarization Of Max. EIRP	
10MHz Band 256QAM	24/0	133600	11.21	1.91	5.60	14.90	30.903	Horizontal	3
		136100	11.19	1.91	5.60	14.88	30.761	Horizontal	3
		138600	11.28	1.92	5.60	14.96	31.333	Horizontal	3
15MHz Band 256QAM	38/0	134100	11.67	1.92	5.60	15.35	34.277	Horizontal	3
		136100	11.87	1.91	5.60	15.56	35.975	Horizontal	3
		138100	11.18	1.93	5.60	14.85	30.549	Horizontal	3
20MHz Band 256QAM	51/0	134600	11.72	1.93	5.60	15.39	34.594	Horizontal	3
		136100	12.00	1.91	5.60	15.69	37.068	Horizontal	3
		137600	11.08	1.94	5.60	14.74	29.785	Horizontal	3
10MHz Band 256QAM	24/0	133600	10.00	1.91	5.60	13.69	23.388	Vertical	3
		136100	9.28	1.91	5.60	12.97	19.815	Vertical	3
		138600	9.67	1.92	5.60	13.35	21.627	Vertical	3
15MHz Band 256QAM	38/0	134100	10.65	1.92	5.60	14.33	27.102	Vertical	3
		136100	10.43	1.91	5.60	14.12	25.823	Vertical	3
		138100	9.27	1.93	5.60	12.94	19.679	Vertical	3
20MHz Band 256QAM	51/0	134600	10.16	1.93	5.60	13.83	24.155	Vertical	3
		136100	10.96	1.91	5.60	14.65	29.174	Vertical	3
		137600	9.36	1.94	5.60	13.02	20.045	Vertical	3

Note:

SG Level= Signal generator output

Max. EIRP Average (dBm)= Factor Gain (dB)+ SG Level (dBm)- Cable Loss(dBm)

Factor Gain(dB)=Antenna Gain(dB) + Amplifier Factor (dB)

8.5 NR BAND 78

Radiated Power (EIRP) for N78(3450-3550)										
Mode	RB Allocation	UL Channel	Result						Limit (W)	Conclusion
			SG Level (dBm)	Cable Loss (dBm)	Antenna Factor (dBi)	Max. EIRP Average (dBm)	Max. EIRP Average (mW)	Polarization Of Max. EIRP		
10MHz Band QPSK	24/0	630334	17.70	5.38	11.30	23.62	230.144	Horizontal	1	Pass
		633334	17.03	5.42	11.30	22.91	195.434	Horizontal	1	Pass
		636332	17.57	5.51	11.30	23.36	216.770	Horizontal	1	Pass
15MHz Band QPSK	38/0	630500	17.82	5.39	11.30	23.73	236.048	Horizontal	1	Pass
		633334	17.48	5.42	11.30	23.36	216.770	Horizontal	1	Pass
		636166	17.65	5.52	11.30	23.43	220.293	Horizontal	1	Pass
20MHz Band QPSK	51/0	630668	17.89	5.40	11.30	23.79	239.332	Horizontal	1	Pass
		633334	17.55	5.42	11.30	23.43	220.293	Horizontal	1	Pass
		636000	17.29	5.53	11.30	23.06	202.302	Horizontal	1	Pass
40MHz Band QPSK	106/0	631334	17.05	5.41	11.30	22.94	196.789	Horizontal	1	Pass
		633334	17.38	5.42	11.30	23.26	211.836	Horizontal	1	Pass
		635332	17.19	5.54	11.30	22.95	197.242	Horizontal	1	Pass
50MHz Band QPSK	133/0	631668	17.21	5.42	11.30	23.09	203.704	Horizontal	1	Pass
		633334	17.11	5.42	11.30	22.99	199.067	Horizontal	1	Pass
		635000	17.66	5.55	11.30	23.41	219.280	Horizontal	1	Pass
60MHz Band QPSK	162/0	632000	17.05	5.43	11.30	22.92	195.884	Horizontal	1	Pass
		633334	17.38	5.42	11.30	23.26	211.836	Horizontal	1	Pass
		634666	17.21	5.56	11.30	22.95	197.242	Horizontal	1	Pass
70MHz Band QPSK	189/0	632334	17.39	5.44	11.30	23.25	211.349	Horizontal	1	Pass
		634332	17.65	5.42	11.30	23.53	225.424	Horizontal	1	Pass
		634332	17.26	5.57	11.30	22.99	199.067	Horizontal	1	Pass
80MHz Band QPSK	217/0	632668	17.16	5.45	11.30	23.01	199.986	Horizontal	1	Pass
		633334	17.49	5.42	11.30	23.37	217.270	Horizontal	1	Pass
		634000	17.52	5.58	11.30	23.24	210.863	Horizontal	1	Pass
90MHz Band QPSK	245/0	633000	17.21	5.46	11.30	23.05	201.837	Horizontal	1	Pass
		633334	17.49	5.42	11.30	23.37	217.270	Horizontal	1	Pass
		633666	17.92	5.59	11.30	23.63	230.675	Horizontal	1	Pass
100MHz Band QPSK	273/0	633334	17.58	5.47	11.30	23.41	219.280	Horizontal	1	Pass
10MHz	24/0	630334	15.77	5.38	11.30	21.69	147.571	Vertical	1	Pass

Band QPSK		633334	15.71	5.42	11.30	21.59	144.212	Vertical	1	Pass
		636332	16.47	5.51	11.30	22.26	168.267	Vertical	1	Pass
15MHz Band QPSK	38/0	630500	16.14	5.39	11.30	22.05	160.325	Vertical	1	Pass
		633334	15.54	5.42	11.30	21.42	138.676	Vertical	1	Pass
		636166	16.63	5.52	11.30	22.41	174.181	Vertical	1	Pass
20MHz Band QPSK	51/0	630668	15.92	5.40	11.30	21.82	152.055	Vertical	1	Pass
		633334	16.29	5.42	11.30	22.17	164.816	Vertical	1	Pass
		636000	15.68	5.53	11.30	21.45	139.637	Vertical	1	Pass
40MHz Band QPSK	106/0	631334	15.95	5.41	11.30	21.84	152.757	Vertical	1	Pass
		633334	15.83	5.42	11.30	21.71	148.252	Vertical	1	Pass
		635332	16.01	5.54	11.30	21.77	150.314	Vertical	1	Pass
50MHz Band QPSK	133/0	631668	15.27	5.42	11.30	21.15	130.317	Vertical	1	Pass
		633334	15.56	5.42	11.30	21.44	139.316	Vertical	1	Pass
		635000	15.68	5.55	11.30	21.43	138.995	Vertical	1	Pass
60MHz Band QPSK	162/0	632000	16.04	5.43	11.30	21.91	155.239	Vertical	1	Pass
		633334	15.71	5.42	11.30	21.59	144.212	Vertical	1	Pass
		634666	15.64	5.56	11.30	21.38	137.404	Vertical	1	Pass
70MHz Band QPSK	189/0	632334	15.46	5.44	11.30	21.32	135.519	Vertical	1	Pass
		634332	15.93	5.42	11.30	21.81	151.705	Vertical	1	Pass
		634332	16.07	5.57	11.30	21.80	151.356	Vertical	1	Pass
80MHz Band QPSK	217/0	632668	15.46	5.45	11.30	21.31	135.207	Vertical	1	Pass
		633334	15.60	5.42	11.30	21.48	140.605	Vertical	1	Pass
		634000	16.52	5.58	11.30	22.24	167.494	Vertical	1	Pass
90MHz Band QPSK	245/0	633000	15.41	5.46	11.30	21.25	133.352	Vertical	1	Pass
		633334	15.73	5.42	11.30	21.61	144.877	Vertical	1	Pass
		633666	16.81	5.59	11.30	22.52	178.649	Vertical	1	Pass
100MHz Band QPSK	273/0	633334	16.20	5.47	11.30	22.03	159.588	Vertical	1	Pass

Radiated Power (EIRP) for N78(3450-3550)										
Mode	RB Allocation	UL Channel	Result						Limit (W)	Conclusion
			SG Level (dBm)	Cable Loss (dBm)	Antenna Factor (dBi)	Max. EIRP Average (dBm)	Max. EIRP Average (mW)	Polarization Of Max. EIRP		
10MHz Band 16QAM	24/0	630334	17.44	5.38	11.30	23.36	216.770	Horizontal	1	Pass
		633334	17.91	5.42	11.30	23.79	239.332	Horizontal	1	Pass
		636332	17.18	5.51	11.30	22.97	198.153	Horizontal	1	Pass
15MHz Band 16QAM	38/0	630500	17.66	5.39	11.30	23.57	227.510	Horizontal	1	Pass
		633334	17.77	5.42	11.30	23.65	231.739	Horizontal	1	Pass
		636166	17.49	5.52	11.30	23.27	212.324	Horizontal	1	Pass
20MHz Band 16QAM	51/0	630668	17.78	5.40	11.30	23.68	233.346	Horizontal	1	Pass
		633334	17.20	5.42	11.30	23.08	203.236	Horizontal	1	Pass
		636000	17.83	5.53	11.30	23.60	229.087	Horizontal	1	Pass
40MHz Band 16QAM	106/0	631334	17.08	5.41	11.30	22.97	198.153	Horizontal	1	Pass
		633334	17.53	5.42	11.30	23.41	219.280	Horizontal	1	Pass
		635332	17.69	5.54	11.30	23.45	221.309	Horizontal	1	Pass
50MHz Band 16QAM	133/0	631668	17.55	5.42	11.30	23.43	220.293	Horizontal	1	Pass
		633334	17.99	5.42	11.30	23.87	243.781	Horizontal	1	Pass
		635000	17.76	5.55	11.30	23.51	224.388	Horizontal	1	Pass
60MHz Band 16QAM	162/0	632000	17.87	5.43	11.30	23.74	236.592	Horizontal	1	Pass
		633334	17.05	5.42	11.30	22.93	196.336	Horizontal	1	Pass
		634666	17.99	5.56	11.30	23.73	236.048	Horizontal	1	Pass
70MHz Band 16QAM	189/0	632334	17.65	5.44	11.30	23.51	224.388	Horizontal	1	Pass
		634332	17.27	5.42	11.30	23.15	206.538	Horizontal	1	Pass
		634332	17.30	5.57	11.30	23.03	200.909	Horizontal	1	Pass
80MHz Band 16QAM	217/0	632668	17.96	5.45	11.30	23.81	240.436	Horizontal	1	Pass
		633334	17.91	5.42	11.30	23.79	239.332	Horizontal	1	Pass
		634000	17.69	5.58	11.30	23.41	219.280	Horizontal	1	Pass
90MHz Band 16QAM	245/0	633000	17.47	5.46	11.30	23.31	214.289	Horizontal	1	Pass
		633334	17.73	5.42	11.30	23.61	229.615	Horizontal	1	Pass
		633666	17.95	5.59	11.30	23.66	232.274	Horizontal	1	Pass
100MHz Band 16QAM	273/0	633334	17.67	5.47	11.30	23.50	223.872	Horizontal	1	Pass
10MHz Band 16QAM	24/0	630334	16.04	5.38	11.30	21.96	157.036	Vertical	1	Pass
		633334	16.39	5.42	11.30	22.27	168.655	Vertical	1	Pass
		636332	15.91	5.51	11.30	21.70	147.911	Vertical	1	Pass

15MHz Band 16QAM	38/0	630500	16.24	5.39	11.30	22.15	164.059	Vertical	1	Pass
		633334	16.22	5.42	11.30	22.10	162.181	Vertical	1	Pass
		636166	16.21	5.52	11.30	21.99	158.125	Vertical	1	Pass
20MHz Band 16QAM	51/0	630668	16.55	5.40	11.30	22.45	175.792	Vertical	1	Pass
		633334	16.07	5.42	11.30	21.95	156.675	Vertical	1	Pass
		636000	16.00	5.53	11.30	21.77	150.314	Vertical	1	Pass
40MHz Band 16QAM	106/0	631334	15.70	5.41	11.30	21.59	144.212	Vertical	1	Pass
		633334	16.44	5.42	11.30	22.32	170.608	Vertical	1	Pass
		635332	16.06	5.54	11.30	21.82	152.055	Vertical	1	Pass
50MHz Band 16QAM	133/0	631668	16.40	5.42	11.30	22.28	169.044	Vertical	1	Pass
		633334	16.97	5.42	11.30	22.85	192.752	Vertical	1	Pass
		635000	16.14	5.55	11.30	21.89	154.525	Vertical	1	Pass
60MHz Band 16QAM	162/0	632000	16.37	5.43	11.30	22.24	167.494	Vertical	1	Pass
		633334	15.40	5.42	11.30	21.28	134.276	Vertical	1	Pass
		634666	16.11	5.56	11.30	21.85	153.109	Vertical	1	Pass
70MHz Band 16QAM	189/0	632334	15.69	5.44	11.30	21.55	142.889	Vertical	1	Pass
		634332	16.09	5.42	11.30	21.97	157.398	Vertical	1	Pass
		634332	15.37	5.57	11.30	21.10	128.825	Vertical	1	Pass
80MHz Band 16QAM	217/0	632668	16.02	5.45	11.30	21.87	153.815	Vertical	1	Pass
		633334	16.51	5.42	11.30	22.39	173.380	Vertical	1	Pass
		634000	16.38	5.58	11.30	22.10	162.181	Vertical	1	Pass
90MHz Band 16QAM	245/0	633000	15.77	5.46	11.30	21.61	144.877	Vertical	1	Pass
		633334	16.31	5.42	11.30	22.19	165.577	Vertical	1	Pass
		633666	16.46	5.59	11.30	22.17	164.816	Vertical	1	Pass
100MHz Band 16QAM	273/0	633334	16.44	5.47	11.30	22.27	168.655	Vertical	1	Pass

Radiated Power (EIRP) for N78(3450-3550)										
Mode	RB Allocation	UL Channel	Result						Limit (W)	Conclusion
			SG Level (dBm)	Cable Loss (dBm)	Antenna Factor (dBi)	Max. EIRP Average (dBm)	Max. EIRP Average (mW)	Polarization Of Max. EIRP		
10MHz Band 64QAM	24/0	630334	17.59	5.38	11.30	23.51	224.388	Horizontal	1	Pass
		633334	17.82	5.42	11.30	23.70	234.423	Horizontal	1	Pass
		636332	17.28	5.51	11.30	23.07	202.768	Horizontal	1	Pass
15MHz Band 64QAM	38/0	630500	17.71	5.39	11.30	23.62	230.144	Horizontal	1	Pass
		633334	17.64	5.42	11.30	23.52	224.905	Horizontal	1	Pass
		636166	17.63	5.52	11.30	23.41	219.280	Horizontal	1	Pass
20MHz Band 64QAM	51/0	630668	17.01	5.40	11.30	22.91	195.434	Horizontal	1	Pass
		633334	17.20	5.42	11.30	23.08	203.236	Horizontal	1	Pass
		636000	17.70	5.53	11.30	23.47	222.331	Horizontal	1	Pass
40MHz Band 64QAM	106/0	631334	17.85	5.41	11.30	23.74	236.592	Horizontal	1	Pass
		633334	17.16	5.42	11.30	23.04	201.372	Horizontal	1	Pass
		635332	17.34	5.54	11.30	23.10	204.174	Horizontal	1	Pass
50MHz Band 64QAM	133/0	631668	17.79	5.42	11.30	23.67	232.809	Horizontal	1	Pass
		633334	17.77	5.42	11.30	23.65	231.739	Horizontal	1	Pass
		635000	18.01	5.55	11.30	23.76	237.684	Horizontal	1	Pass
60MHz Band 64QAM	162/0	632000	17.12	5.43	11.30	22.99	199.067	Horizontal	1	Pass
		633334	17.61	5.42	11.30	23.49	223.357	Horizontal	1	Pass
		634666	18.17	5.56	11.30	23.91	246.037	Horizontal	1	Pass
70MHz Band 64QAM	189/0	632334	17.80	5.44	11.30	23.66	232.274	Horizontal	1	Pass
		634332	17.72	5.42	11.30	23.60	229.087	Horizontal	1	Pass
		634332	17.71	5.57	11.30	23.44	220.800	Horizontal	1	Pass
80MHz Band 64QAM	217/0	632668	18.00	5.45	11.30	23.85	242.661	Horizontal	1	Pass
		633334	17.28	5.42	11.30	23.16	207.014	Horizontal	1	Pass
		634000	18.08	5.58	11.30	23.80	239.883	Horizontal	1	Pass
90MHz Band 64QAM	245/0	633000	17.81	5.46	11.30	23.65	231.739	Horizontal	1	Pass
		633334	18.02	5.42	11.30	23.90	245.471	Horizontal	1	Pass
		633666	18.05	5.59	11.30	23.76	237.684	Horizontal	1	Pass
100MHz Band 64QAM	273/0	633334	17.66	5.47	11.30	23.49	223.357	Horizontal	1	Pass
10MHz Band 64QAM	24/0	630334	16.07	5.38	11.30	21.99	158.125	Vertical	1	Pass
		633334	16.20	5.42	11.30	22.08	161.436	Vertical	1	Pass
		636332	15.75	5.51	11.30	21.54	142.561	Vertical	1	Pass

15MHz Band 64QAM	38/0	630500	15.94	5.39	11.30	21.85	153.109	Vertical	1	Pass
		633334	16.20	5.42	11.30	22.08	161.436	Vertical	1	Pass
		636166	16.05	5.52	11.30	21.83	152.405	Vertical	1	Pass
20MHz Band 64QAM	51/0	630668	15.08	5.40	11.30	20.98	125.314	Vertical	1	Pass
		633334	15.84	5.42	11.30	21.72	148.594	Vertical	1	Pass
		636000	15.99	5.53	11.30	21.76	149.968	Vertical	1	Pass
40MHz Band 64QAM	106/0	631334	16.53	5.41	11.30	22.42	174.582	Vertical	1	Pass
		633334	15.69	5.42	11.30	21.57	143.549	Vertical	1	Pass
		635332	15.47	5.54	11.30	21.23	132.739	Vertical	1	Pass
50MHz Band 64QAM	133/0	631668	15.99	5.42	11.30	21.87	153.815	Vertical	1	Pass
		633334	16.21	5.42	11.30	22.09	161.808	Vertical	1	Pass
		635000	16.37	5.55	11.30	22.12	162.930	Vertical	1	Pass
60MHz Band 64QAM	162/0	632000	15.84	5.43	11.30	21.71	148.252	Vertical	1	Pass
		633334	16.45	5.42	11.30	22.33	171.002	Vertical	1	Pass
		634666	16.65	5.56	11.30	22.39	173.380	Vertical	1	Pass
70MHz Band 64QAM	189/0	632334	16.60	5.44	11.30	22.46	176.198	Vertical	1	Pass
		634332	16.48	5.42	11.30	22.36	172.187	Vertical	1	Pass
		634332	16.43	5.57	11.30	22.16	164.437	Vertical	1	Pass
80MHz Band 64QAM	217/0	632668	16.63	5.45	11.30	22.48	177.011	Vertical	1	Pass
		633334	15.80	5.42	11.30	21.68	147.231	Vertical	1	Pass
		634000	16.68	5.58	11.30	22.40	173.780	Vertical	1	Pass
90MHz Band 64QAM	245/0	633000	15.82	5.46	11.30	21.66	146.555	Vertical	1	Pass
		633334	16.53	5.42	11.30	22.41	174.181	Vertical	1	Pass
		633666	16.96	5.59	11.30	22.67	184.927	Vertical	1	Pass
100MHz Band 64QAM	273/0	633334	15.97	5.47	11.30	21.80	151.356	Vertical	1	Pass

Radiated Power (EIRP) for N78(3450-3550)										
Mode	RB Allocation	UL Channel	Result						Limit (W)	Conclusion
			SG Level (dBm)	Cable Loss (dBm)	Antenna Factor (dBi)	Max. EIRP Average (dBm)	Max. EIRP Average (mW)	Polarization Of Max. EIRP		
10MHz Band 256QAM	24/0	630334	17.40	5.38	11.30	23.32	214.783	Horizontal	1	Pass
		633334	17.97	5.42	11.30	23.85	242.661	Horizontal	1	Pass
		636332	18.06	5.51	11.30	23.85	242.661	Horizontal	1	Pass
15MHz Band 256QAM	38/0	630500	17.52	5.39	11.30	23.43	220.293	Horizontal	1	Pass
		633334	17.36	5.42	11.30	23.24	210.863	Horizontal	1	Pass
		636166	17.23	5.52	11.30	23.01	199.986	Horizontal	1	Pass
20MHz Band 256QAM	51/0	630668	17.84	5.40	11.30	23.74	236.592	Horizontal	1	Pass
		633334	17.87	5.42	11.30	23.75	237.137	Horizontal	1	Pass
		636000	17.72	5.53	11.30	23.49	223.357	Horizontal	1	Pass
40MHz Band 256QAM	106/0	631334	17.38	5.41	11.30	23.27	212.324	Horizontal	1	Pass
		633334	17.22	5.42	11.30	23.10	204.174	Horizontal	1	Pass
		635332	17.52	5.54	11.30	23.28	212.814	Horizontal	1	Pass
50MHz Band 256QAM	133/0	631668	17.80	5.42	11.30	23.68	233.346	Horizontal	1	Pass
		633334	17.41	5.42	11.30	23.29	213.304	Horizontal	1	Pass
		635000	17.87	5.55	11.30	23.62	230.144	Horizontal	1	Pass
60MHz Band 256QAM	162/0	632000	17.86	5.43	11.30	23.73	236.048	Horizontal	1	Pass
		633334	17.97	5.42	11.30	23.85	242.661	Horizontal	1	Pass
		634666	17.53	5.56	11.30	23.27	212.324	Horizontal	1	Pass
70MHz Band 256QAM	189/0	632334	17.74	5.44	11.30	23.60	229.087	Horizontal	1	Pass
		634332	17.36	5.42	11.30	23.24	210.863	Horizontal	1	Pass
		634332	17.88	5.57	11.30	23.61	229.615	Horizontal	1	Pass
80MHz Band 256QAM	217/0	632668	17.79	5.45	11.30	23.64	231.206	Horizontal	1	Pass
		633334	17.40	5.42	11.30	23.28	212.814	Horizontal	1	Pass
		634000	18.11	5.58	11.30	23.83	241.546	Horizontal	1	Pass
90MHz	245/0	633000	18.07	5.46	11.30	23.91	246.037	Horizontal	1	Pass

Band 256QA M		633334	17.72	5.42	11.30	23.60	229.087	Horizontal	1	Pass
		633666	17.60	5.59	11.30	23.31	214.289	Horizontal	1	Pass
100MHz Band 256QA M	273/0	633334	17.77	5.47	11.30	23.60	229.087	Horizontal	1	Pass
10MHz Band 256QA M	24/0	630334	15.50	5.38	11.30	21.42	138.676	Vertical	1	Pass
		633334	16.03	5.42	11.30	21.91	155.239	Vertical	1	Pass
		636332	17.05	5.51	11.30	22.84	192.309	Vertical	1	Pass
15MHz Band 256QA M	38/0	630500	15.60	5.39	11.30	21.51	141.579	Vertical	1	Pass
		633334	16.30	5.42	11.30	22.18	165.196	Vertical	1	Pass
		636166	15.50	5.52	11.30	21.28	134.276	Vertical	1	Pass
20MHz Band 256QA M	51/0	630668	15.97	5.40	11.30	21.87	153.815	Vertical	1	Pass
		633334	16.65	5.42	11.30	22.53	179.061	Vertical	1	Pass
		636000	16.58	5.53	11.30	22.35	171.791	Vertical	1	Pass
40MHz Band 256QA M	106/0	631334	16.18	5.41	11.30	22.07	161.065	Vertical	1	Pass
		633334	15.98	5.42	11.30	21.86	153.462	Vertical	1	Pass
		635332	16.30	5.54	11.30	22.06	160.694	Vertical	1	Pass
50MHz Band 256QA M	133/0	631668	16.24	5.42	11.30	22.12	162.930	Vertical	1	Pass
		633334	15.60	5.42	11.30	21.48	140.605	Vertical	1	Pass
		635000	16.07	5.55	11.30	21.82	152.055	Vertical	1	Pass
60MHz Band 256QA M	162/0	632000	15.91	5.43	11.30	21.78	150.661	Vertical	1	Pass
		633334	16.43	5.42	11.30	22.31	170.216	Vertical	1	Pass
		634666	15.92	5.56	11.30	21.66	146.555	Vertical	1	Pass
70MHz Band 256QA M	189/0	632334	15.93	5.44	11.30	21.79	151.008	Vertical	1	Pass
		634332	15.54	5.42	11.30	21.42	138.676	Vertical	1	Pass
		634332	16.28	5.57	11.30	22.01	158.855	Vertical	1	Pass
80MHz Band 256QA M	217/0	632668	16.50	5.45	11.30	22.35	171.791	Vertical	1	Pass
		633334	16.02	5.42	11.30	21.90	154.882	Vertical	1	Pass
		634000	17.05	5.58	11.30	22.77	189.234	Vertical	1	Pass
90MHz Band	245/0	633000	16.76	5.46	11.30	22.60	181.970	Vertical	1	Pass
		633334	16.00	5.42	11.30	21.88	154.170	Vertical	1	Pass

256QAM		633666	16.07	5.59	11.30	21.78	150.661	Vertical	1	Pass
100MHz Band 256QAM	273/0	633334	16.37	5.47	11.30	22.20	165.959	Vertical	1	Pass

Note:

SG Level= Signal generator output

Max. EIRP Average (dBm)= Factor Gain (dB)+ SG Level (dBm)- Cable Loss(dBm)

Factor Gain(dB)=Antenna Gain(dB) + Amplifier Factor (dB)

9. SPURIOUS RADIATION EMISSION

RULE PART(S)

FCC: §2.1053, §22.917, §24.238, §27.53 (c)(g)(h)(m)

LIMIT

For Band 7, the minimum permissible attenuation level of any spurious emission is $55 + \log_{10}(P)$ [Watts]).

The minimum permissible attenuation level of any spurious emission is $43 + \log_{10}(P)$ [Watts]), where P is the transmitter power in Watts.

TEST PROCEDURE

For Cellular equipment - Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. 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. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 100 kHz or 1 percent of emission bandwidth, as specified). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

For PCS equipment - Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 MHz or 1 percent of emission bandwidth, as specified). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

The unwanted emission power shall be measured with a resolution bandwidth of at least 1% of the occupied bandwidth in the 1 MHz band immediately outside and adjacent to the channel edge of the equipment. Beyond the 1 MHz band immediately outside the channel edge of the equipment, a resolution bandwidth of 1 MHz shall be employed. A narrower resolution bandwidth is allowed to be used provided that the measured power is integrated over the full required measurement bandwidth of 1 MHz or 1% of the occupied bandwidth as applicable.

The power of any unwanted emissions measured from the channel edge of the equipment shall be attenuated below the transmitter power, P (dBW), as follows:

- a. for base station and subscriber equipment, other than mobile subscriber equipment, the attenuation shall not be less than $43 + 10 \log_{10}(p)$, dB; and
- b. for mobile subscriber equipment, the attenuation shall not be less than $43 + 10 \log_{10}(p)$, dB at the channel edges and $55 + 10 \log_{10}(p)$ at 5.5 MHz away and beyond the channel edges where p in (a) and (b) is the transmitter power measured in watts.

MODES TESTED

NR Band 7/41/71/78

RESULTS

PASS

9.1 NR BAND 7

QPSK NR n 7 (20MHZ BANDWIDTH)

Test Results for Low Channel 2510MHz							
Frequency(MHz)	SG Level(dBm)	Cable Loss(dB)	Antenna Gain(dB)	Absolute Level(dBm)	Limit (dBm)	Margin(dBm)	Polarity
5020	-74.75	4.04	33.51	-45.28	-25	-20.28	Horizontal
5020	-72.22	4.04	33.51	-42.75	-25	-17.75	Vertical
7530	-63.92	5.24	35.84	-33.32	-25	-8.32	Vertical
7530	-61.83	5.24	35.84	-31.23	-25	-6.23	Horizontal
Test Results for Mid Channel 2535MHz							
5070	-71.19	4.04	33.56	-41.67	-25	-16.67	Horizontal
5070	-71.00	4.04	33.56	-41.48	-25	-16.48	Vertical
7605	-61.68	5.24	35.91	-31.01	-25	-6.01	Vertical
7605	-64.87	5.24	35.91	-34.20	-25	-9.20	Horizontal
Test Results for High Channel 2560MHz							
5120	-74.30	4.04	34.00	-44.34	-25	-19.34	Horizontal
5120	-72.28	4.04	34.00	-42.32	-25	-17.32	Vertical
7680	-61.87	5.24	36.04	-31.07	-25	-6.07	Vertical
7680	-64.37	5.24	36.04	-33.57	-25	-8.57	Horizontal

9.2 NR BAND 41

QPSK NR n 41 (100MHZ BANDWIDTH)

Test Results for Low Channel 2546.01MHz							
Frequency(MHz)	SG Level(dBm)	Cable Loss(dB)	Antenna Gain(dB)	Absolute Level(dBm)	Limit (dBm)	Margin(dBm)	Polarity
5092.02	-73.68	4.07	33.54	-44.21	-25	-19.21	Horizontal
5092.02	-73.87	4.07	33.54	-44.40	-25	-19.40	Vertical
7638.03	-63.69	5.28	35.86	-33.11	-25	-8.11	Vertical
7638.03	-63.49	5.28	35.86	-32.91	-25	-7.91	Horizontal
Test Results for Mid Channel 2592.99MHz							
5185.98	-73.05	4.04	33.56	-43.53	-25	-18.53	Horizontal
5185.98	-73.08	4.04	33.56	-43.56	-25	-18.56	Vertical
7778.97	-61.23	5.24	35.91	-30.56	-25	-5.56	Vertical
7778.97	-61.40	5.24	35.91	-30.73	-25	-5.73	Horizontal
Test Results for High Channel 2640MHz							
5280	-71.02	4.04	34.00	-41.06	-25	-16.06	Horizontal
5280	-71.60	4.04	34.00	-41.64	-25	-16.64	Vertical
7920	-63.24	5.24	36.04	-32.44	-25	-7.44	Vertical
7920	-61.09	5.24	36.04	-30.29	-25	-5.29	Horizontal

Note: P_{Mea}(dBm)= Power(dBm)+ AR_{pl} (dBm)

. Over Limit= : P_{Mea}(dBm)-Limit(dBm)

9.3 NR BAND 71

QPSK NR n 71 (20MHz BANDWIDTH)

Test Results for Low Channel 673MHz							
Frequency(MHz)	SG Level(dBm)	Cable Loss(dB)	Antenna Gain(dB)	Absolute Level(dBm)	Limit (dBm)	Margin(dBm)	Polarity
1346	-72.06	4.02	29.80	-46.28	-13	-33.28	Horizontal
1346	-73.31	4.02	29.80	-47.53	-13	-34.53	Vertical
2019	-62.65	5.24	35.84	-32.05	-13	-19.05	Vertical
2019	-61.69	5.24	35.84	-31.09	-13	-18.09	Horizontal
Test Results for Mid Channel 680.5MHz							
1361	-73.78	4.03	30.00	-47.81	-13	-34.81	Horizontal
1361	-71.71	4.03	30.00	-45.74	-13	-32.74	Vertical
2041.5	-64.36	5.25	35.86	-33.75	-13	-20.75	Vertical
2041.5	-61.11	5.25	35.86	-30.50	-13	-17.50	Horizontal
Test Results for High Channel 688MHz							
1376	-73.84	4.05	30.01	-47.88	-13	-34.88	Horizontal
1376	-71.01	4.05	30.01	-45.05	-13	-32.05	Vertical
2064	-63.22	5.26	35.86	-32.62	-13	-19.62	Vertical
2064	-63.72	5.26	35.86	-33.12	-13	-20.12	Horizontal

9.4 NR BAND 78

QPSK NR n 78(3450~3550) (100MHZ BANDWIDTH)

Test Results for Low Channel 3500.1MHz							
Frequency(MHz)	SG Level(dBm)	Cable Loss(dB)	Antenna Gain(dB)	Absolute Level(dBm)	Limit (dBm)	Margin(dBm)	Polarity
7000.2	-72.76	4.02	29.80	-46.98	-13	-33.98	Horizontal
7000.2	-72.23	4.02	29.80	-46.45	-13	-33.45	Vertical
10500.3	-64.37	5.24	35.84	-33.77	-13	-20.77	Vertical
10500.3	-63.06	5.24	35.84	-32.46	-13	-19.46	Horizontal

Note: $P_{Mea}(dBm) = Power(dBm) + ARpl(dBm)$

. Over Limit = : $P_{Mea}(dBm) - Limit(dBm)$

10. FREQUENCY STABILITY

RULE PART(S)

FCC: §2.1053, §22.917, §24.238, §27.53

LIMITS

§22.355 - The carrier frequency shall not depart from the reference frequency in excess of ± 2.5 ppm for mobile stations.

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

TEST PROCEDURE

Use CMW 500 with Frequency Error measurement capability.

Temp. = -30° to $+50^{\circ}\text{C}$

Voltage = low voltage, DC 3.29V, Normal, DC 3.87V and High voltage, DC 4.45V.

Frequency Stability vs Temperature:

The EUT is placed inside a temperature chamber. The temperature is set to -30°C and allowed to stabilize. After sufficient soak time, the transmitting frequency error is measured. The temperature is increased by 10 degrees, allowed to stabilize and soak, and then the measurement is repeated. This is repeated until $+50^{\circ}\text{C}$ is reached.

Frequency Stability vs Voltage:

The peak frequency error is recorded (worst-case).

MODES TESTED

NR Band 7/41/71/78

RESULTS

See the following pages.

10.1 NR BAND 7

NR N7 QPSK, (20MHz BANDWIDTH RB size 51 RB Offset 0)

Frequency error vs. Voltage

Voltage [Vdc]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
3.4	1880	7	0.003723	2.5
3.87	1880	0	0.000000	2.5
4.45	1880	20	0.010638	2.5

Frequency error vs. Temperature

Temperature [°C]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
Normal (25C)	1880	3	0.001596	2.5
Extreme (50C)	1880	1	0.000532	2.5
Extreme (40C)	1880	5	0.002660	2.5
Extreme (30C)	1880	10	0.005319	2.5
Extreme (10C)	1880	18	0.009574	2.5
Extreme (0C)	1880	11	0.005851	2.5
Extreme (-10C)	1880	10	0.005319	2.5
Extreme (-20C)	1880	22	0.011702	2.5
Extreme (-30C)	1880	12	0.006383	2.5

***Note:** Frequency error measurements were made by using the build-in capability of the Wireless Communication Test Set.

10.2 NR BAND 41

NR N41 QPSK, (100MHz BANDWIDTH RB size 273 RB Offset 0)

Frequency error vs. Voltage

Voltage [Vdc]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
3.4	1880	12	0.006383	2.5
3.87	1880	6	0.003191	2.5
4.45	1880	17	0.009043	2.5

Frequency error vs. Temperature

Temperature [°C]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
Normal (25C)	1745	3	0.001596	2.5
Extreme (50C)	1745	14	0.007447	2.5
Extreme (40C)	1745	22	0.011702	2.5
Extreme (30C)	1745	2	0.001064	2.5
Extreme (10C)	1745	23	0.012234	2.5
Extreme (0C)	1745	2	0.001064	2.5
Extreme (-10C)	1745	4	0.002128	2.5
Extreme (-20C)	1745	26	0.013830	2.5
Extreme (-30C)	1745	3	0.001596	2.5

***Note:** Frequency error measurements were made by using the build-in capability of the Wireless Communication Test Set.

10.3 NR BAND 71

Band 71 QPSK, (20MHz BANDWIDTH RB size 51 RB Offset 0)

Frequency error vs. Voltage

Voltage [Vdc]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
3.4	1732.5	23	0.013276	2.5
3.87	1732.5	3	0.001732	2.5
4.45	1732.5	18	0.010390	2.5

Frequency error vs. Temperature

Temperature [°C]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
Normal (25C)	1732.5	5	0.002886	2.5
Extreme (50C)	1732.5	7	0.004040	2.5
Extreme (40C)	1732.5	20	0.011544	2.5
Extreme (30C)	1732.5	6	0.003463	2.5
Extreme (10C)	1732.5	3	0.001732	2.5
Extreme (0C)	1732.5	17	0.009812	2.5
Extreme (-10C)	1732.5	25	0.014430	2.5
Extreme (-20C)	1732.5	6	0.003463	2.5
Extreme (-30C)	1732.5	17	0.009812	2.5

***Note:** Frequency error measurements were made by using the build-in capability of the Wireless Communication Test Set.

10.4 NR BAND 78

Band 78(3450-3550MHz) QPSK, (100MHz BANDWIDTH RB size 273 RB Offset 0)

Frequency error vs. Voltage

Voltage [Vdc]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
3.4	1732.5	5	0.002886	2.5
3.87	1732.5	24	0.013853	2.5
4.45	1732.5	18	0.010390	2.5

Frequency error vs. Temperature

Temperature [°C]	Frequency [MHz]	Frequency* Error[Hz]	Frequency Error[ppm]	Limit [ppm]
Normal (25C)	1732.5	11	0.006349	2.5
Extreme (50C)	1732.5	15	0.008658	2.5
Extreme (40C)	1732.5	1	0.000577	2.5
Extreme (30C)	1732.5	3	0.001732	2.5
Extreme (10C)	1732.5	8	0.004618	2.5
Extreme (0C)	1732.5	14	0.008081	2.5
Extreme (-10C)	1732.5	27	0.015584	2.5
Extreme (-20C)	1732.5	18	0.010390	2.5
Extreme (-30C)	1732.5	6	0.003463	2.5

***Note:** Frequency error measurements were made by using the build-in capability of the Wireless Communication Test Set.

11. Peak-to-Average Ratio

11.1 Description of the PAR Measurement

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

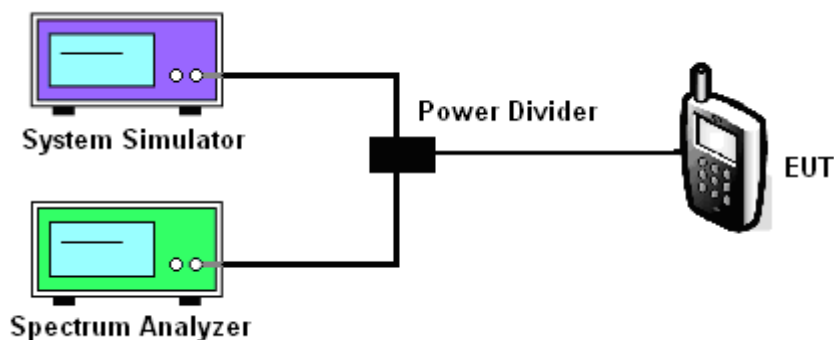
11.2 Measuring Instruments

See list of measuring instruments of this test report.

11.3 Test Procedures

1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
2. 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.
3. For GSM/EGPRS operating modes:
 - a. Set the RBW = 1MHz, VBW = 1MHz, Peak detector in spectrum analyzer.
 - b. Set EUT in maximum power output, and triggered the burst signal.
 - c. Measured respectively the Peak level and Mean level, and the deviation was recorded as Peak to Average Ratio.
4. For UMTS operating modes:
 - a. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
 - b. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.

11.4 Test Setup



11.5 MODES TESTED

NR Band 7/41/71/78

Test data reference attachment.

----END OF REPORT----