



# **TEST REPORT**

# Applicant: TECNO MOBILE LIMITED

Address: FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG

# FCC ID: 2ADYY-CL8

# **Product Name: Mobile Phone**

# Standard(s): 47 CFR Part 2, 47 CFR Part 22, Subpart H 47 CFR Part 24, Subpart E 47 CFR Part 27 ANSI C63.26-2015

The above device has been tested and found compliant with the requirement of the relative standards by China Certification ICT Co., Ltd (Dongguan)

Report Number: CR231273520-00G Date Of Issue: 2024/03/09

**Reviewed By:** Calvin Chen

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Title: Manager

# **Test Laboratory:** China Certification ICT Co., Ltd (Dongguan)

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#### **Test Facility**

The Test site used by China Certification ICT Co., Ltd (Dongguan) to collect test data is located on the No. 113, Pingkang Road, Dalang Town, Dongguan, Guangdong, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 442868, the FCC Designation No. : CN1314.

#### Declarations

China Certification ICT Co., Ltd (Dongguan) is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with a triangle symbol "▲". Customer model name, addresses, names, trademarks etc. are not considered data.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

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# **DOCUMENT REVISION HISTORY**

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	CR231273520-00G	Original Report	2024/03/09

# **1. GENERAL INFORMATION**

# 1.1 Product Description for Equipment under Test (EUT)

EUT Name:	Mobile Phone	
Trade Name:	TECNO	
EUT Model:	CL8	
Operation Bands:	5G NR SA Band: n5/n7/n12/n38/n40/n41/n66/n77/n78         5G NR NSA Band:         DC_2A_n7A, DC_5A_n7A, DC_7A_n7A, DC_66A_n7A, DC_5A_n40A,         DC_7A_n40A, DC_40A_n40A, DC_4A_n38A, DC_5A_n38A,         DC_66A_n38A, DC_4A_n41A, DC_5A_n41A, DC_40A_n41A,         DC_41A_n41A, DC_66A_n41A, DC_2A_n66A, DC_5A_n66A,         DC_7A_n66A, DC_66A_n66A, DC_2A_n78A, DC_4A_n78A,         DC_5A_n78A, DC_7A_n78A, DC_38A_n78A, DC_40A_n78A,         DC_41A_n78A, DC_66A_n78A, DC_5A_n77A, DC_7A_n77A,         DC_40A_n77A, DC_41A_n77A, DC_66A_n77A	
Modulation Type:	DFT-s-OFDM: PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM CP-OFDM: QPSK, 16QAM, 64QAM, 256QAM	
Rated Input Voltage:	DC5V or 5-10V or 11V or 4-20V from adapter or DC3.91V from battery	
	RE: 2EXR-4	
Serial Number:	RF: 2EXR-1	
EUT Received Date:	2023/12/8	
EUT Received Status:	Good	
Note: For NSA mode, we only show the combination of the maximum power among all NSA combinations in the report as below: DC 5A n7A, DC 5A n38A, DC 5A n40A, DC 5A n41A, DC 5A n66A, DC 5A n77A, DC 5A n78A		

## **Operation Voltage (V**DC) **A**:

Lowest:	3.45	Normal:	3.91	Highest:	4.5
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Bands	Frequency Range	Bandwidth		Test Frequency (MHz)	,
Bands	(MHz)	(MHz)	Low Channel	Middle Channel	High Channel
		5	826.5	836.5	846.5
N5	824-849	10	829.0	836.5	844.0
ING	824-849	15	831.5	836.5	841.5
		20	834.0	836.5	839.0
		5	2502.5	2535	2567.5
	2500 2570	10	2505.0	2535	2565.0
N7	2500-2570	15	2507.5	2535	2562.5
		20	2510.0	2535	2560.0
	699-716	5	701.5	707.5	713.5
N12		10	704.0	707.5	711.0
		15	706.5	707.5	708.5
		10	2575	2595	2615
		15	2577.5	2595	2612.5
2120	2570.2620	20	2580	2595	2610
N38	2570-2620	25	2582.5	2595	2607.5
		30	2585	2595	2605
		40	2590.0	2595.0	2600
N40 Lower	2305-2315	10	/	2310	/
N40 Upper	2350-2360	10	/	2355	/

# **Operation Frequency and Test Frequency Detail**:

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Bands	Frequency Range	Bandwidth		Test Frequenc (MHz)	у
Danus	(MHz)	(MHz)	Low Channel	Middle Channel	High Channel
		10	2501.01	2592.99	2685
		15	2503.5	2592.99	2682.48
		20	2506.02	2592.99	2679.99
		30	2511.00	2592.99	2674.99
N41	2406 2600	40	2516.01	2592.99	2670.00
IN41	2496-2690	50	2521.02	2592.99	2664.99
		60	2526.00	2592.99	2659.99
		80	2536.02	2592.99	2649.99
		90	2541.0	2592.99	2644.98
		100	2546.01	2592.99	2640.00
	1710-1780	5	1712.5	1745	1777.5
		10	1715	1745	1775
		15	1717.5	1745	1772.5
N66		20	1720	1745	1770
		25	1722.5	1745	1767.5
		30	1725	1745	1765
		40	1730	1745	1760
		10	3455.0	3500.0	3545.0
		15	3457.5	3500.0	3542.5
		20	3460.0	3500.0	3540.0
		30	3465.0	3500.0	3535.0
		40	3470.0	3500.0	3530.0
N77 Lower	3450-3550	50	3475.0	3500.0	3525.0
		60	3480.0	3500.0	3520.0
		70	3485.0	3500.0	3515.0
		80	3490.0	3500.0	3510.0
		90	3495.0	3500.0	3505.0
		100	/	3500.0	/

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Bands	Frequency Range	Bandwidth		Test Frequency (MHz)	,
Danus	(MHz)	(MHz)	Low Channel	Middle Channel	High Channel
		10	3705.0	3840.0	3975.0
		15	3707.5	3840.0	3972.5
		20	3710.0	3840.0	3970.0
		30	3715.0	3840.0	3965.0
		40	3720.0	3840.0	3960.0
N77 Upper	3700-3980	50	3725.0	3840.0	3955.0
		60	3730.0	3840.0	3950.0
		70	3735.0	3840.0	3945.0
		80	3740.0	3840.0	3940.0
		90	3745.0	3840.0	3935.0
		100	3750.0	3840.0	3930.0
		10	3455.0	3500.0	3545.0
		15	3457.5	3500.0	3542.5
		20	3460.0	3500.0	3540.0
		25	3462.5	3475.0	3537.5
		30	3465.0	3500.0	3535.0
N78 Lower	3450-3550	40	3470.0	3500.0	3530.0
N/8 Lower	3450-3550	50	3475.0	3500.0	3525.0
		60	3480.0	3500.0	3520.0
		70	3485.0	3500.0	3515.0
		80	3490.0	3500.0	3510.0
		90	3495.0	3500.0	3505.0
		100	/	3500.0	/

#### Report No.: CR231273520-00G

Danda	Frequency Range	Bandwidth		Test Frequency (MHz)	
Bands	(MHz)	(MHz)	Low Channel	Middle Channel	High Channel
		10	3705.0	3750.0	3795.0
		15	3707.5	3750.0	3792.5
		20	3710.0	3750.0	3790.0
		25	3712.5	3750.0	3787.5
	3700-3800	30	3715.0	3750.0	3785.0
N79 Linn on		40	3720.0	3750.0	3780.0
N78 Upper		50	3725.0	3750.0	3775.0
		60	3730.0	3750.0	3770.0
		70	3735.0	3750.0	3765.0
		80	3740.0	3750.0	3760.0
		90	3745.0	3750.0	3755.0
		100	/	3750.0	/

Note:

SCS 15kHz, 30kHz, 60kHz was supports by the device, they have same output power. so only SCS 15kHz was tested for FDD band, and CSC 30kHz tested for TDD band.

For modulation of CP-OFDM and DFT-s-OFDM, the maximum power of CP-OFDM is lower than DFT-s-OFDM modulation, therefore, we chose higher power (DFT-s-OFDM modulation) to perform all tests and show in the report

Antenna	Antenna Type	<b>Operation Bands</b>	Antenna Frequency Range(MHz)	Antenna Gain (Gī)(dBi)	Lc(dB)	
۸ NIT 1		N5	824-849	-6.8	0.5	
ANT1		N12	699-716	-6.4	0.5	
		N7	2500-2570	-2.1	0.8	
		N38	2570-2620	-2.1	0.8	
	τ. 1	N40 Lower	2305-2315	-2.1	0.8	
ANT2	Integral	N40 Upper	2350-2360	-2.1	0.8	
		N41	2496-2690	-2.1	0.8	
		N66	1710-1785	-4.9	0.8	
4 NTT7		N77	3450-3980	-5.8	0	
ANT7		N78	3450-3800	-5.8	0	
Note: Lc= Signal A	Note: Lc= Signal Attenuation in the connecting cable between the transmitter and antenna, in dB.					

# **Transmission Antenna Information▲:**

### **Accessory Information:**

Accessory Description	Manufacturer	Model	Parameters
Adapter	TECNO	U700TSA	Input:100-240V~50/60Hz 2.0A Output:5.0V, 3.0A 15.0W or 5.0-10.0V, 7.0A MAX or 11.0V, 6.4A MAX or 4.0-20.0V, 3.5A 70.0W MAX

# **1.2 Description of Test Configuration**

#### **1.2.1 EUT Operation Condition:**

EUT Operation Mode:	The system was configured for testing in each operation mode.		
Equipment Modifications:	No		
EUT Exercise Software:	No		
The maximum power was configured per 3GPP Standard for each operation modes.			

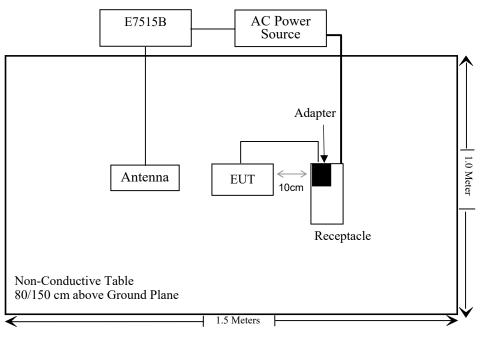
#### **1.2.2 Support Equipment List and Details**

Manufacturer	Description	Model	Serial Number
Keysight	UXM 5G Wireless Test Platform	E7515B	MY58120285
Unknown	ANTENNA	Unknown	Unknown

#### **1.2.3 Support Cable List and Details**

Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	То
/	/	/	/	/	/

### 1.2.4 Block Diagram of Test Setup



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### **1.3 Measurement Uncertainty**

Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.

Parameter	Measurement Uncertainty
Occupied Channel Bandwidth	$\pm 5\%$
RF output power, conducted	±0.61dB
Power Spectral Density, conducted	±0.61 dB
Unwanted Emissions, radiated	30M~200MHz: 4.15 dB,200M~1GHz: 5.61 dB,1G~6GHz: 5.14 dB, 6G~18GHz: 5.93 dB,18G~26.5G:5.47 dB,26.5G~40G:5.63 dB
Unwanted Emissions, conducted	±1.26 dB
Temperature	±1℃
Humidity	$\pm 5\%$
DC and low frequency voltages	$\pm 0.4\%$
Duty Cycle	1%
RF Frequency	$\pm 0.082 \times 10^{-6}$

# 2. SUMMARY OF TEST RESULTS

Rules	Description of Test	Result
FCC§2.1046; § 22.913; § 24.232; §27.50	RF Output Power	Compliant
FCC§ 2.1047	Modulation Characteristics	Not Applicable
FCC§ 2.1049; § 22.905; § 22.917; § 24.238; §27.53	Occupied Bandwidth	Compliant
FCC§ 2.1051; § 22.917; § 24.238; §27.53	Spurious Emissions at Antenna Terminal	Compliant
FCC§ 22.917; § 24.238; §27.53	Out of band emission, Band Edge	Compliant
FCC§ 2.1055; § 22.355; § 24.235; §27.54	Frequency stability vs. temperature Frequency stability vs. voltage	Compliant
FCC§ 2.1053; § 22.917; § 24.238; §27.53	Field Strength of Spurious Radiation	Compliant

# **3. REQUIREMENTS AND TEST PROCEDURES**

### 3.1 Applicable Standard For Part 22 Subpart H:

### 3.1.1 RF Output Power

FCC §22.913 (a)(5) The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7watts.

(d) *Power measurement*. Measurement of the ERP of Cellular base transmitters and repeaters must be made using an average power measurement technique. The peak-toaverage ratio (PAR) of the transmission must not exceed 13 dB. Power measurements for base transmitters and repeaters must be made in accordance with either of the following:

(1) A Commission-approved average power technique (*see* FCC Laboratory's Knowledge Database); or (2) For purposes of this section, peak transmit power must be measured over an interval of continuous transmission using instrumentation calibrated in terms of an rmsequivalent voltage. The measurement results shall be properly adjusted for any instrument limitations, such as detector response times, limited resolution bandwidth capability when compared to the emission bandwidth, sensitivity, *etc.*, so as to obtain a true peak measurement for the emission in question over the full bandwidth of the channel.

#### **3.1.2 Spurious Emissions**

#### FCC §22.917

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

(b) Measurement procedure. Compliance with these rules is based on the use of measurement instrumentation employing a reference bandwidth as follows:

(1) In the spectrum below 1 GHz, instrumentation should employ a reference 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 that the measured power is integrated over the full required reference 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. (2) In the spectrum above 1 GHz, instrumentation should employ a reference bandwidth of 1 MHz

#### 3.1.3 Frequency stability

#### FCC §22.355

Except as otherwise provided in this part, the carrier frequency of each transmitter in the Public Mobile Services must be maintained within the tolerances given in Table C-1 of this section.

Frequency range (MHz)	Base, fixed (ppm)	Mobile >3 watts (ppm)	Mobile ≤3 watts (ppm)
25 to 50	20	20	50
50 to 450	5	5	50
450 to 512	2.5	5	5
821 to 896	1.5	2.5	2.5
928 to 929	5	n/a	n/a
929 to 960	1.5	n/a	n/a
2110 to 2220	10	n/a	n/a

Table C-1 - Frequency Tolerance for Transmitters in the Public Mobile Services

#### **3.2 Applicable Standard For Part 24 Subpart E:**

#### 3.2.1 RF Output Power

#### FCC §24.232

(c)Mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

(d)Power measurements for transmissions by stations authorized under this section may be made either in accordance with a Commission-approved average power technique or in compliance with paragraph (e) of this section. In both instances, equipment employed must be authorized in accordance with the provisions of § 24.51. 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.

#### **3.2.2 Spurious Emissions**

#### FCC §24.238

The rules in this section govern the spectral characteristics of emissions in the Broadband Personal Communications Service.

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

(b) Measurement procedure. 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.

(c) Alternative out of band emission limit. Licensees in this service may establish an alternative out of band emission limit to be used at specified band edge(s) in specified geographical areas, in lieu of that set forth in this section, pursuant to a private contractual arrangement of all affected licensees and applicants. In this event, each party to such contract shall maintain a copy of the contract in their station files and disclose it to prospective assignees or transferees and, upon request, to the FCC.

(d) Interference caused by out of band emissions. If any emission from a transmitter operating in this service results in interference to users of another radio service, the FCC may require a greater attenuation of that emission than specified in this section.

#### 3.2.3 Frequency stability

#### FCC §24.235

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

#### **3.3 Applicable Standard For Part 27:**

#### 3.3.1 RF Output Power

#### FCC §27.50

#### (a)(3) Mobile and portable stations.

(i) For mobile and portable stations transmitting in the 2305-2315 MHz band or the 2350-2360 MHz band, the average EIRP must not exceed 50 milliwatts within any 1 megahertz of authorized bandwidth, *except that* for mobile and portable stations compliant with 3GPP LTE standards or another advanced mobile broadband protocol that avoids concentrating energy at the edge of the operating band the average EIRP must not exceed 250 milliwatts within any 5 megahertz of authorized bandwidth but may exceed 50 milliwatts within any 1 megahertz of authorized bandwidth. For mobile and portable stations using time division duplexing (TDD) technology, the duty cycle must not exceed 38 percent in the 2305-2315 MHz and 2350-2360 MHz bands. Mobile and portable stations using FDD technology are restricted to transmitting in the 2305-2315 MHz band. Power averaging shall not include intervals in which the transmitter is off.

(ii) Mobile and portable stations are not permitted to transmit in the 2315-2320 MHz and 2345-2350 MHz bands.

(iii) *Automatic transmit power control.* Mobile and portable stations transmitting in the 2305-2315 MHz band or in the 2350-2360 MHz band must employ automatic transmit power control when operating so the stations operate with the minimum power necessary for successful communications.

(iv) *Prohibition on external vehicle-mounted antennas*. The use of external vehicle-mounted antennas for mobile and portable stations transmitting in the 2305-2315 MHz band or the 2350-2360 MHz band is prohibited.

(b)(10) Portable stations (hand-held devices) transmitting in the 746-757 MHz, 776-788 MHz, and 805-806 MHz bands are limited to 3 watts ERP.

(c)(10) Portable stations (hand-held devices) in the 600 MHz uplink band and the 698-746 MHz band, and fixed and mobile stations in the 600 MHz uplink band are limited to 3 watts ERP.

(d)(4) Fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watt EIRP. Fixed stations operating in the 1710-1755 MHz band are limited to a maximum antenna height of 10 meters above ground. Mobile and portable stations operating in these bands must employ a means for limiting power to the minimum necessary for successful communications.

(h) The following power limits shall apply in the BRS and EBS:(2)Mobile and other user stations. Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

(j) The following power requirements apply to stations transmitting in the 3700 – 3980 MHz band: (3) Mobile and portable stations are limited to 1 Watt EIRP. Mobile and portable stations operating in these bands must employ a means for limiting power to the minimum necessary for successful communications.

(k) The following power requirements apply to stations transmitting in the 3450 - 3550 MHz band:
(3) Mobile devices are limited to 1Watt (30 dBm) EIRP. Mobile devices operating in these bands must employ a means for limiting power to the minimum necessary for successful communications.

#### **3.3.2 Spurious Emissions**

#### FCC §27.53

(a) For operations in the 2305-2320 MHz band and the 2345-2360 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power P (with averaging performed only during periods of transmission) within the licensed band(s) of operation, in watts, by the following amounts:

(4)For mobile and portable stations operating in the 2305-2315 MHz and 2350-2360 MHz bands:

(i) By a factor of not less than:  $43 + 10 \log (P) dB$  on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, not less than 55 + 10 log (P) dB on all frequencies between 2320 and 2324 MHz and on all frequencies between 2341 and 2345 MHz, not less than 61 + 10 log (P) dB on all frequencies between 2324 and 2328 MHz and on all frequencies between 2337 and 2341 MHz, and not less than 67 + 10 log (P) dB on all frequencies between 2328 and 2337 MHz;

(ii) By a factor of not less than  $43 + 10 \log (P) dB$  on all frequencies between 2300 and 2305 MHz, 55 + 10 log (P) dB on all frequencies between 2296 and 2300 MHz, 61 + 10 log (P) dB on all frequencies between 2292 and 2296 MHz, 67 + 10 log (P) dB on all frequencies between 2288 and 2292 MHz, and 70 + 10 log (P) dB below 2288 MHz;

(iii) By a factor of not less than  $43 + 10 \log (P) dB$  on all frequencies between 2360 and 2365 MHz, and not less than  $70 + 10 \log (P) dB$  above 2365 MHz.

(c)For operations in the 746-758 MHz band and the 776-788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

(1) On any frequency outside the 746-758 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least  $43 + 10 \log (P) dB$ ;

(2) On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least  $43 + 10 \log (P) dB$ ;

(3) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than  $76 + 10 \log (P)$  dB in a 6.25 kHz band segment, for base and fixed stations;

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

(5) Compliance with the provisions of paragraphs (c)(1) and (c)(2) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed;

(6) Compliance with the provisions of paragraphs (c)(3) and (c)(4) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.

(f) For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to – 70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and – 80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

(g) For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least  $43 + 10 \log (P) dB$ . Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

(1) 3.7 GHz Service. The following emission limits apply to stations transmitting in the 3700 – 3980 MHz band:

(2)For mobile operations in the 3700 - 3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed – 13 dBm/MHz. Compliance with this paragraph (l)(2) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be either one percent of the emission bandwidth of the fundamental emission of the transmitter or 350 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth 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.

#### (h) AWS emission limits

(1) *General protection levels.* Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least 43 + 10 log<sub>10</sub> (P) dB.

(m) For BRS and EBS stations, the power of any emissions outside the licensee's frequency bands of operation shall be attenuated below the transmitter power (P) measured in watts in accordance with the standards below. If a licensee has multiple contiguous channels, out-of-band emissions shall be measured from the upper and lower edges of the contiguous channels.

(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.

(n) 3.45 GHz Service. The following emission limits apply to stations transmitting in the 3450 - 3550 MHz band:

(2) For mobile operations in the 3450 – 3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed – 13 dBm/MHz. Compliance with this paragraph (n)(2) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed, but limited to a maximum of 200 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz. 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.

## 3.3.3 Frequency stability

#### FCC §27.54

The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

#### 3.4 Test Method:

#### 3.4.1 Transmitter output power, e.r.p. and e.i.r.p

According to CFR Part 2.1046, ANSI C63.26-2015 Section 5.2.5.5 and KDB 971168 D01 Power Meas License Digital Systems v03r01:

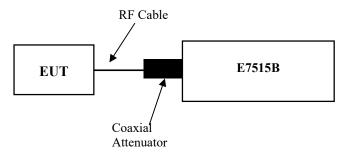
The relevant equation for determining the ERP or EIRP from the conducted RF output power measured using the guidance provided above is:

ERP or EIRP =  $P_{Meas} + G_T - L_C$ 

where:

L<sub>C</sub> = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

**Test Setup Block:** 



Note: The Insertion loss of the RF cable and coaxial Attenuator was offset into the Reading of E7515B.

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#### 3.4.2 Occupied Bandwidth

According to ANSI C63.26-2015 Section 5.4.4

The OBW is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission.

The following procedure shall be used for measuring (99%) power bandwidth:

a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be set wide enough to capture all modulation products including the emission skirts (typically a span of  $1.5 \times OBW$  is sufficient).

b) The nominal IF filter 3 dB bandwidth (RBW) shall be in the range of 1% to 5% of the anticipated OBW, and the VBW shall be set  $\ge$  3 × RBW.

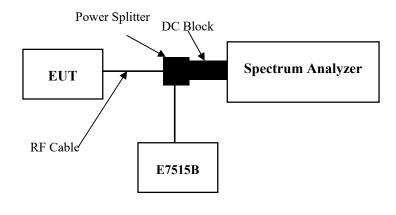
c) Set the reference level of the instrument as required to prevent the signal amplitude from exceeding the maximum spectrum analyzer input mixer level for linear operation. See guidance provided in 4.2.3. NOTE—Step a), step b), and step c) may require iteration to adjust within the specified tolerances.

d) Set the detection mode to peak, and the trace mode to max-hold.

e) If the instrument does not have a 99% OBW function, recover the trace data points and sum directly in linear power terms. Place the recovered amplitude data points, beginning at the lowest frequency, in a running sum until 0.5% of the total is reached. Record that frequency as the lower OBW frequency. Repeat the process until 99.5% of the total is reached and record that frequency as the upper OBW frequency. The 99% power OBW can be determined by computing the difference these two frequencies.

f) The OBW shall be reported and plot(s) of the measuring instrument display shall be provided with the test report. The frequency and amplitude axis and scale shall be clearly labeled. Tabular data can be reported in addition to the plot(s).

**Test Setup Block:** 

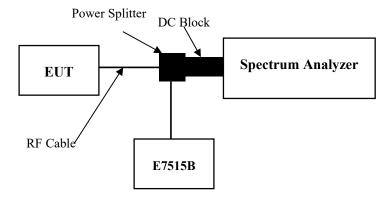


#### 3.4.3 Transmitter unwanted emissions-at antenna terminals

According to ANSI C63.26-2015 Section 5.7.4, KDB 971168 D01 Power Meas License Digital Systems v03r01:

the applicable rule part specifies the reference bandwidth for measuring unwanted emission levels (typically, 100 kHz if the authorized frequency band/block is at or below 1 GHz and 1 MHz if the authorized frequency band/block is above 1 GHz),8 effectively depicting the unwanted emission limit in terms of a power spectral density. In those cases where no reference bandwidth is explicitly specified, the values in the preceding sentence should be used.

#### **Test Setup Block:**



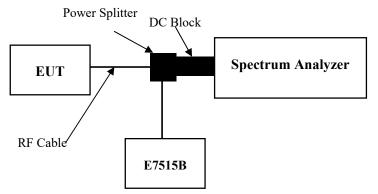
Note: The Insertion loss of the RF cable and coaxial Attenuator was offset into the Speactrum Analyzer.

#### 3.4.4 Transmitter unwanted emissions-Out of band emission

According to ANSI C63.26-2015 Section 5.7.3, KDB 971168 D01 Power Meas License Digital Systems v03r01:

Typically, a measurement (resolution) bandwidth smaller than the reference bandwidth is allowed for measurements within a specified frequency range at the edge of the authorized frequency block/band (e.g., within the first Y MHz outside of the authorized frequency band/block, where the value of Y is specified in the relevant rule part). Some FCC out-of-band emission rules permit the use of a narrower RBW (typically limited to a minimum RBW of 1 % of the OBW) for measuring the out-of-band emissions without a requirement to integrate the result over the full reference bandwidth. Beyond the specified frequency range in which this relaxation of the uniform reference bandwidth is permitted, it typically is also acceptable to use a narrower RBW (again limited to a minimum of 1 % of OBW) to increase accuracy, but the measurement result must subsequently be integrated over the full reference bandwidth.

#### **Test Setup Block:**



Note: The Insertion loss of the RF cable and coaxial Attenuator was offset into the Speactrum Analyzer.

#### 3.4.5 Frequency stability

According to ANSI C63.26-2015 Section 5.6, KDB 971168 D01 Power Meas License Digital Systems v03r01:

Frequency stability is a measure of the frequency drift due to temperature and supply voltage variations, with reference to the frequency measured at +20 °C and rated supply voltage.

The operating carrier frequency shall be set up in accordance with the manufacturer's published operation and instruction manual prior to the commencement of these tests. No adjustment of any frequency determining circuit element shall be made subsequent to this initial set-up. Frequency stability is tested:

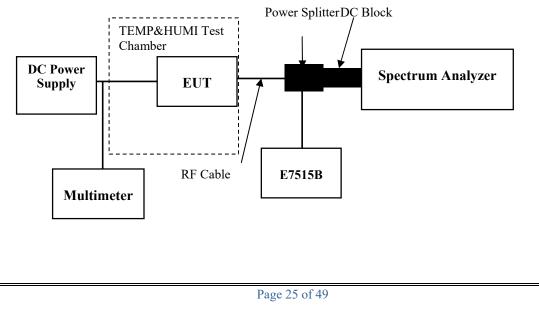
a) At 10 °C intervals of temperatures between -30 °C and +50 °C at the manufacturer's rated supply voltage, and

b) At +20 °C temperature and  $\pm 15\%$  supply voltage variations. If a product is specified to operate over a range of input voltage then the -15% variation is applied to the lowermost voltage and the +15% is applied to the uppermost voltage.

During the test all necessary settings, adjustments and control of the EUT have to be performed without disturbing the test environment, i.e., without opening the environmental chamber. The frequency stabilities can be maintained to a lesser temperature range provided that the transmitter is automatically inhibited from operating outside the lesser temperature range. For handheld equipment that is only capable of operating from internal batteries and the supply voltage cannot be varied, the frequency stability tests shall be performed at the nominal battery voltage and the battery end point voltage specified by the manufacturer. An external supply voltage can be used and set at the internal battery nominal voltage, and again at the battery operating end point voltage which shall be specified by the equipment manufacturer.

If an unmodulated carrier is not available, the mean frequency of a modulated carrier can be obtained by using a frequency counter with gating time set to an appropriately large multiple of bit periods (gating time depending on the required accuracy). Full details on the choice of values shall be included in the test report.

#### **Test Setup Block:**



### 3.4.6 Transmitter unwanted emissions- Radiated Spurious emissions

According to ANSI C63.26-2015 Section 5.5.3:

### Test setup:

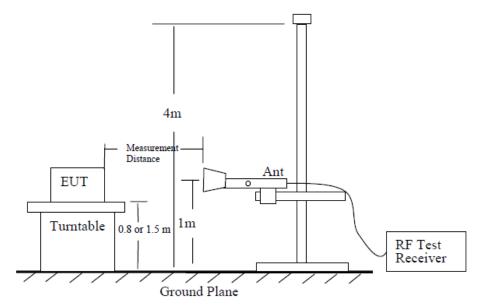
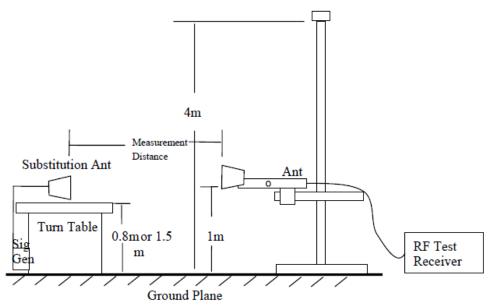


Figure 6—Test site-up for radiated ERP and/or EIRP measurements





#### **Test Procedure:**

- a) Place the EUT in the center of the turntable. The EUT shall be configured to transmit into the standard non-radiating load (for measuring radiated spurious emissions), connected with cables of minimal length unless specified otherwise. If the EUT uses an adjustable antenna, the antenna shall be positioned to the length that produces the worst case emission at the fundamental operating frequency.
- b) Each emission under consideration shall be evaluated:
  - Raise and lower the measurement antenna in accordance 5.5.2, as necessary to enable detection of the maximum emission amplitude relative to measurement antenna height.
  - Rotate the EUT through 360° to determine the maximum emission level relative to the axial position.
  - 3) Return the turntable to the azimuth where the highest emission amplitude level was observed.
  - 4) Vary the measurement antenna height again through 1 m to 4 m again to find the height associated with the maximum emission amplitude.
  - 5) Record the measured emission amplitude level and frequency using the appropriate RBW.
- c) Repeat step b) for each emission frequency with the measurement antenna oriented in both the horizontal and vertical polarizations to determine the orientation that gives the maximum emissions amplitude.
- d) Set-up the substitution measurement with the reference point of the substitution antenna located as near as possible to where the center of the EUT radiating element was located during the initial EUT measurement.
- e) Maintain the previous measurement instrument settings and test set-up, with the exception that the EUT is removed and replaced by the substitution antenna.
- f) Connect a signal generator to the substitution antenna; locate the signal generator so as to minimize any potential influences on the measurement results. Set the signal generator to the frequency where emissions are detected, and set an output power level such that the radiated signal can be detected by the measurement instrument, with sufficient dynamic range relative to the noise floor.
- g) For each emission that was detected and measured in the initial test [i.e., in step b) and step c)]:
  - Vary the measurement antenna height between 1 m to 4 m to maximize the received (measured) signal amplitude.
  - Adjust the signal generator output power level until the amplitude detected by the measurement instrument equals the amplitude level of the emission previously measured directly in step b) and step c).
  - 3) Record the output power level of the signal generator when equivalence is achieved in step 2).
- Repeat step e) through step g) with the measurement antenna oriented in the opposite polarization.
- i) Calculate the emission power in dBm referenced to a half-wave dipole using the following equation:

Pe = Ps(dBm) - cable loss (dB) + antenna gain (dBd)

where

- Pe = equivalent emission power in dBm
- Ps = source (signal generator) power in dBm

NOTE-dBd refers to the measured antenna gain in decibels relative to a half-wave dipole.

- j) Correct the antenna gain of the substitution antenna if necessary to reference the emission power to a half-wave dipole. When using measurement antennas with the gain specified in dBi, the equivalent dipole-referenced gain can be determined from: gain (dBd) = gain (dBi) - 2.15 dB. If necessary, the antenna gain can be calculated from calibrated antenna factor information
- k) Provide the complete measurement results as a part of the test report.

# 4. Test DATA AND RESULTS

### 4.1 Antenna Port Test Data and Results:

Serial Number:	2EXR-1	Test Date:	2024/02/22~2024/03/09
Test Site:	RF	Test Mode:	TX
Tester:	Jim chen, Len Huang	Test Result:	Pass

Environmental	Conditions:				
Temperature: (℃)	22.3-25.4	Relative Humidity: (%)	26~48	ATM Pressure: (kPa)	101.1~102.7

#### **Test Equipment List and Details:**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101474	2023/3/31	2024/3/30
BACL	TEMP&HUMI Test Chamber	BIH-150-40 501/4		2023/3/31	2024/3/30
UNI-T	Multimeter	UT39A+	C210582554	2023/9/28	2024/9/27
ZHAOXIN	DC Power Supply	RXN-6010D	21R6010D0912386	N/A	N/A
Agilent	Power divider	11636B	56199	Each time	N/A
JD	RF Regulatory Test System	5G NR Test Software	V1.2.04	N/A	N/A
Decentest	Multiplex Switch Test Control Set	DT7200SCU	DQ76345D	2023/11/1	2024/10/31
Decentest	Filter Switch Unit	DT7200FSU	DQ76345C	N/A	N/A
Keysight	UXM 5G Wireless Test Platform	E7515B	MY58120285	2023/11/16	2024/11/15

\* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

#### Test Data

Test Result: Compliant. The test data please refer to the plots in the Appendix A~I.

# 4.2 Radiated Spurious Emissions

Serial Number:	2EXR-4	Test Date:	2024/2/26~2024/3/3
Test Site:	966-1, 966-2	Test Mode:	Transmitting
Tester:	Mack Huang, Jeff Luo	Test Result:	Pass

Environmental	Conditions:				
Temperature: (°C)	24.5~26.4	Relative Humidity: (%)	40~59	ATM Pressure: (kPa)	102.2~103.5

### Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Sunol Sciences	Antenna	JB6	A082520-5	2023/12/1	2026/11/30
R&S	EMI Test Receiver	ESR3	102724	2023/3/31	2024/3/30
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0470-02	2023/7/16	2024/7/15
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0780-01	2023/7/16	2024/7/15
Sonoma	Amplifier	310N	186165	2023/7/16	2024/7/15
EMCO	Adjustable Dipole Antenna	3121C	9109-756	N/A	N/A
MICRO-COAX	Coaxial Cable	UFA210B-0-0720- 300300	99G1448	2023/7/16	2024/7/15
Agilent	Signal Generator	E8247C	MY43321352	2023/11/17	2024/11/16
АН	Double Ridge Guide Horn Antenna	SAS-571	1394	2023/2/22	2026/2/21
R&S	Spectrum Analyzer	FSV40	101591	2023/3/31	2024/3/30
MICRO-COAX	Coaxial Cable	UFA210A-1-1200- 70U300	217423-008	2023/8/6	2024/8/5
MICRO-COAX	Coaxial Cable	UFA210A-1-2362- 300300	725780 001		2024/8/5
Mini	Pre-amplifier	ZVA-183-S+	5969001149	2023/11/8	2024/11/7
АН	Double Ridge Guide Horn Antenna	SAS-571	1396	2021/10/18	2024/10/17
MICRO-COAX	Coaxial Cable	UFA210B-0-0720- 300300	99G1448	2023/7/16	2024/7/15
Agilent	Signal Generator	E8247C	MY43321352	2023/11/17	2024/11/16
PASTERNACK	Horn Antenna	PE9852/2F-20	112002	2024/2/4	2027/2/3
PASTERNACK	Horn Antenna	PE9852/2F-20	112001	2024/2/4	2027/2/3
Quinstar	Preamplifier	QLW-18405536-JO	15964001005	2023/9/15	2024/9/14
PASTERNACK	Horn Antenna	PE9850/2F-20	072001	2024/2/4	2027/2/3
PASTERNACK	Horn Antenna	PE9850/2F-20	072002	2024/2/4	2027/2/3
MICRO-COAX	Coaxial Cable	UFB142A-1-2362- 200200	235772-001	2023/8/6	2024/8/5

\* *Statement of Traceability:* China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

#### **Test Data:**

Please refer to the below tables. After pre-scan in the X, Y and Z axes of orientation, the worst case is below:

N5:								
		Reading	Substi	tuted Metho	d	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
Frequency (MHz)	Polar (H/V)		Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
		5MHz QPSI	K, Frequency:	826.5	MHz			
956.00	Н	30.95	-66.66	0.00	0.60	-67.26	-13.00	54.26
956.00	V	31.55	-63.66	0.00	0.60	-64.26	-13.00	51.26
1653.000	Н	48.46	-55.87	8.68	0.81	-48	-13.00	35.00
1653.000	V	46.84	-57.57	8.68	0.81	-49.7	-13.00	36.70
2479.500	Н	48.38	-52.38	9.39	1.01	-44	-13.00	31.00
2479.500	V	45.35	-55.38	9.39	1.01	-47	-13.00	34.00
		5MHz QPSI	K, Frequency:	836.5	MHz			
958.10	Н	31.00	-66.55	0.00	0.61	-67.16	-13.00	54.16
958.10	V	31.71	-63.45	0.00	0.61	-64.06	-13.00	51.06
1673.000	Н	46.95	-57.36	8.71	0.85	-49.5	-13.00	36.50
1673.000	V	46.25	-58.16	8.71	0.85	-50.3	-13.00	37.30
2509.500	Н	46.90	-53.71	9.42	1.01	-45.3	-13.00	32.30
2509.500	V	45.81	-54.81	9.42	1.01	-46.4	-13.00	33.40
		5MHz QPSI	K, Frequency:	846.5	MHz			
952.40	Н	31.35	-66.37	0.00	0.59	-66.96	-13.00	53.96
952.40	V	32.02	-63.27	0.00	0.59	-63.86	-13.00	50.86
1693.000	Н	46.96	-57.34	8.73	0.89	-49.5	-13.00	36.50
1693.000	V	46.28	-58.14	8.73	0.89	-50.3	-13.00	37.30
2539.500	Н	45.83	-54.55	9.46	1.01	-46.1	-13.00	33.10
2539.500	V	44.60	-55.75	9.46	1.01	-47.3	-13.00	34.30

		n ·	Substi	tuted Metho	d		Limit (dBm)	Margin (dB)
Frequency (MHz)	Polar (H/V)	Receiver Reading (dBµV)	Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	Absolute Level (dBm)		
		5MHz QPSI	K, Frequency:	2502.5	MHz			
957.70	Н	31.81	-65.75	0.00	0.61	-66.36	-25.00	41.36
957.70	V	32.02	-63.15	0.00	0.61	-63.76	-25.00	38.76
5005.000	Н	41.53	-51.43	11.20	1.47	-41.7	-25.00	16.70
5005.000	V	42.99	-49.83	11.20	1.47	-40.1	-25.00	15.10
		5MHz QPSI	K, Frequency:	2535	MHz			
954.50	Н	31.99	-65.66	0.00	0.60	-66.26	-25.00	41.26
954.50	V	32.28	-62.96	0.00	0.60	-63.56	-25.00	38.56
5070.000	Н	41.72	-51.47	11.24	1.47	-41.7	-25.00	16.70
5070.000	V	43.52	-49.57	11.24	1.47	-39.8	-25.00	14.80
		5MHz QPSI	K, Frequency:	2567.5	MHz			
952.20	Н	32.15	-65.57	0.00	0.59	-66.16	-25.00	41.16
952.20	V	32.42	-62.87	0.00	0.59	-63.46	-25.00	38.46
5135.000	Н	35.99	-57.61	11.28	1.47	-47.8	-25.00	22.80
5135.000	V	35.38	-58.11	11.28	1.47	-48.3	-25.00	23.30

#### N7:

N12:

N12:		<b>D</b> 1	Substi	tuted Metho	d		Limit (dBm)         Margin (dB)           -13.00         53.66           -13.00         50.96           -13.00         42.50           -13.00         42.50           -13.00         44.00           -13.00         34.00           -13.00         35.40           -13.00         40.70           -13.00         50.36           -13.00         50.36           -13.00         50.36           -13.00         50.36           -13.00         43.40           -13.00         33.10           -13.00         34.90           -13.00         39.90           -13.00         41.00	
Frequency (MHz)	Polar (H/V)	Receiver Reading (dBµV)	Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	Absolute Level (dBm)		
5MHz QPSK, Frequency: 701.5 MHz								
953.50	Н	31.61	-66.07	0.00	0.59	-66.66	-13.00	53.66
953.50	V	31.89	-63.37	0.00	0.59	-63.96	-13.00	50.96
1403.000	Н	40.68	-63.02	8.23	0.71	-55.5	-13.00	42.50
1403.000	V	39.22	-64.52	8.23	0.71	-57	-13.00	44.00
2104.500	Н	46.65	-55.25	9.16	0.91	-47	-13.00	34.00
2104.500	V	45.21	-56.65	9.16	0.91	-48.4	-13.00	35.40
2806.000	Н	37.35	-62.55	9.89	1.04	-53.7	-13.00	40.70
2806.000	V	36.64	-63.15	9.89	1.04	-54.3	-13.00	41.30
		5MHz QPSI	K, Frequency:	707.5	MHz			
957.30	Н	31.92	-65.65	0.00	0.61	-66.26	-13.00	53.26
957.30	V	32.43	-62.75	0.00	0.61	-63.36	-13.00	50.36
1415.000	Н	41.13	-62.54	8.26	0.72	-55	-13.00	42.00
1415.000	V	39.78	-63.94	8.26	0.72	-56.4	-13.00	43.40
2122.500	Н	47.64	-54.35	9.17	0.92	-46.1	-13.00	33.10
2122.500	V	45.82	-56.15	9.17	0.92	-47.9	-13.00	34.90
2830.000	Н	38.03	-61.77	9.93	1.06	-52.9	-13.00	39.90
2830.000	V	36.86	-62.87	9.93	1.06	-54	-13.00	41.00
		5MHz QPSI	K, Frequency:	713.5	MHz			
955.60	Н	32.16	-65.46	0.00	0.60	-66.06	-13.00	53.06
955.60	V	32.56	-62.66	0.00	0.60	-63.26	-13.00	50.26
1427.000	Н	41.07	-62.57	8.30	0.73	-55.00	-13.00	42.00
1427.000	V	39.72	-63.97	8.30	0.73	-56.40	-13.00	43.40
2140.500	Н	47.72	-54.35	9.18	0.93	-46.10	-13.00	33.10
2140.500	V	45.93	-56.15	9.18	0.93	-47.90	-13.00	34.90
2854.000	Н	37.89	-61.80	9.97	1.07	-52.90	-13.00	39.90
2854.000	V	36.78	-62.90	9.97	1.07	-54.00	-13.00	41.00

N38.	
1100.	

			Substi	tuted Metho	d			
Frequency (MHz)	Polar (H/V)	Receiver Reading (dBµV)	Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
	1	0MHz QPSI	K, Frequency:	2575	MHz			
958.30	Н	32.39	-65.15	0.00	0.61	-65.76	-25.00	40.76
958.30	V	31.81	-63.35	0.00	0.61	-63.96	-25.00	38.96
5150.000	Н	34.57	-59.16	11.29	1.43	-49.3	-25.00	24.30
5150.000	V	35.95	-57.66	11.29	1.43	-47.8	-25.00	22.80
	10MHz QPSK, Frequency:				MHz			
953.40	Н	32.72	-64.97	0.00	0.59	-65.56	-25.00	40.56
953.40	V	32.20	-63.07	0.00	0.59	-63.66	-25.00	38.66
5190.000	Н	36.10	-57.97	11.31	1.44	-48.1	-25.00	23.10
5190.000	V	35.75	-58.17	11.31	1.44	-48.3	-25.00	23.30
	1	0MHz QPSI	K, Frequency:	2615	MHz			
956.70	Н	32.84	-64.75	0.00	0.61	-65.36	-25.00	40.36
956.70	V	32.74	-62.45	0.00	0.61	-63.06	-25.00	38.06
5230.000	Н	35.65	-58.28	11.34	1.46	-48.4	-25.00	23.40
5230.000	V	36.47	-57.28	11.34	1.46	-47.4	-25.00	22.40

## N40\_Lower Band:

	Dessiver	Substi	tuted Metho	d	Abgoluto			
Frequency (MHz)	Polar (H/V)	Receiver Reading (dBµV)	Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
	10MHz QPSK, Fre			2310	MHz			
959.20	Н	31.37	-66.14	0.00	0.62	-66.76	-40.00	26.76
959.20	V	32.00	-63.14	0.00	0.62	-63.76	-40.00	23.76
4620.000	Н	37.59	-57.73	10.74	1.41	-48.4	-40.00	8.40
4620.000	V	39.16	-56.03	10.74	1.41	-46.7	-40.00	6.70

### N40\_Upper Band:

		Dessiver	Substi	tuted Metho	d	Absoluto		
Frequency (MHz)	Polar (H/V)	Receiver Reading (dBµV)	Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
	1	0MHz QPSI	K, Frequency:	2355	MHz			
956.80	Н	32.83	-64.75	0.00	0.61	-65.36	-40.00	25.36
956.80	V	31.84	-63.35	0.00	0.61	-63.96	-40.00	23.96
4710.000	Н	36.31	-58.44	10.85	1.41	-49	-40.00	9.00
4710.000	V	38.32	-56.44	10.85	1.41	-47	-40.00	7.00

N41	٠
1441	٠

1141:	Frequency Polar (MHz) (H/V)	р і	Substi	tuted Metho	d			Margin (dB)
- ·		Receiver Reading (dBµV)	Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)	
	1	0MHz QPSI	K, Frequency:	2501.01	MHz			
959.00	Н	32.48	-65.04	0.00	0.62	-65.66	-25.00	40.66
959.00	V	32.50	-62.64	0.00	0.62	-63.26	-25.00	38.26
5002.020	Н	42.93	-50.02	11.20	1.48	-40.3	-25.00	15.30
5002.020	V	42.39	-50.42	11.20	1.48	-40.7	-25.00	15.70
7503.030	Н	42.35	-47.46	10.90	1.94	-38.5	-25.00	13.50
7503.030	V	40.14	-50.16	10.90	1.94	-41.2	-25.00	16.20
	10MHz QPSK, Frequency:				MHz			
956.40	Н	32.65	-64.95	0.00	0.61	-65.56	-25.00	40.56
956.40	V	32.75	-62.45	0.00	0.61	-63.06	-25.00	38.06
5185.980	Н	43.66	-50.37	11.31	1.44	-40.5	-25.00	15.50
5185.980	V	43.32	-50.57	11.31	1.44	-40.7	-25.00	15.70
7778.970	Н	41.94	-47.55	10.84	1.99	-38.7	-25.00	13.70
7778.970	V	40.29	-49.65	10.84	1.99	-40.8	-25.00	15.80
	1	0MHz QPSI	K, Frequency:	2685	MHz			
955.30	Н	32.97	-64.66	0.00	0.60	-65.26	-25.00	40.26
955.30	V	32.86	-62.36	0.00	0.60	-62.96	-25.00	37.96
5370.000	Н	43.17	-50.34	11.42	1.48	-40.4	-25.00	15.40
5370.000	V	43.14	-50.34	11.42	1.48	-40.4	-25.00	15.40
8055.000	Н	40.84	-47.36	10.81	2.15	-38.7	-25.00	13.70
8055.000	V	38.83	-49.86	10.81	2.15	-41.2	-25.00	16.20

N66:			Subati	tutod Motho				
· · · · · · · · · · · · · · · · · · ·	Polar (H/V)	Receiver Reading (dBµV)	Substituted Level (dBm)	tuted Metho Antenna Gain (dBd/dBi)	u Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
		5MHz QPSI	K, Frequency:	1712.5	MHz			
957.10	Н	33.13	-64.45	0.00	0.61	-65.06	-13.00	52.06
957.10	V	33.04	-62.15	0.00	0.61	-62.76	-13.00	49.76
3425.000	Н	38.87	-58.90	10.37	1.17	-49.7	-13.00	36.70
3425.000	V	40.44	-57.30	10.37	1.17	-48.1	-13.00	35.10
		5MHz QPSI	K, Frequency:	1745	MHz			
954.40	Н	33.30	-64.36	0.00	0.60	-64.96	-13.00	51.96
954.40	V	33.18	-62.06	0.00	0.60	-62.66	-13.00	49.66
3490.000	Н	38.61	-59.23	10.40	1.17	-50	-13.00	37.00
3490.000	V	41.35	-56.43	10.40	1.17	-47.2	-13.00	34.20
		5MHz QPSI	K, Frequency:	1777.5	MHz			
953.50	Н	33.61	-64.07	0.00	0.59	-64.66	-13.00	51.66
953.50	V	33.39	-61.87	0.00	0.59	-62.46	-13.00	49.46
3555.000	Н	40.65	-57.04	10.46	1.22	-47.8	-13.00	34.80
3555.000	V	41.84	-55.74	10.46	1.22	-46.5	-13.00	33.50

#### N66:

### N77\_Lower Band:

		Dession	Substi	tuted Metho	d	Albert Inde		
Frequency (MHz)	Polar (H/V)	Receiver Reading (dBµV)	Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
	1	0MHz QPSI	K, Frequency:	3455	MHz			
957.60	Н	31.31	-66.25	0.00	0.61	-66.86	-13.00	53.86
957.60	V	32.92	-62.25	0.00	0.61	-62.86	-13.00	49.86
6910.000	Н	42.51	-48.55	11.22	1.87	-39.2	-13.00	26.20
6910.000	V	42.88	-48.05	11.22	1.87	-38.7	-13.00	25.70
10MHz QPSK, Frequency:				3500	MHz			
954.30	Н	31.70	-65.96	0.00	0.60	-66.56	-13.00	53.56
954.30	V	33.29	-61.96	0.00	0.60	-62.56	-13.00	49.56
7000.000	Н	43.29	-47.51	11.20	1.89	-38.2	-13.00	25.20
7000.000	V	43.84	-46.81	11.20	1.89	-37.5	-13.00	24.50
	1	0MHz QPSI	K, Frequency:	3545	MHz			
954.30	Н	31.70	-65.96	0.00	0.60	-66.56	-13.00	53.56
954.30	V	33.29	-61.96	0.00	0.60	-62.56	-13.00	49.56
7090.000	Н	42.81	-46.75	11.15	1.90	-37.5	-13.00	24.50
7090.000	V	42.43	-47.05	11.15	1.90	-37.8	-13.00	24.80

## N77\_Upper Band:

		D	Substi	tuted Metho	d			
Frequency (MHz)	Polar (H/V)	Receiver Reading (dBµV)	Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
10MHz QPSK, Frequency:			3705	MHz				
954.30	Н	31.70	-65.96	0.00	0.60	-66.56	-13.00	53.56
954.30	V	33.29	-61.96	0.00	0.60	-62.56	-13.00	49.56
7410.000	Н	44.47	-44.80	10.95	2.05	-35.9	-13.00	22.90
7410.000	V	43.61	-46.40	10.95	2.05	-37.5	-13.00	24.50
	1	0MHz QPSI	K, Frequency:	3840	MHz			
959.50	Н	33.26	-64.24	0.00	0.62	-64.86	-13.00	51.86
959.50	V	34.09	-61.04	0.00	0.62	-61.66	-13.00	48.66
7680.000	Н	44.96	-44.55	10.86	2.01	-35.7	-13.00	22.70
7680.000	V	45.04	-45.15	10.86	2.01	-36.3	-13.00	23.30
	1	0MHz QPSI	K, Frequency:	3975	MHz			
956.30	Н	33.55	-64.05	0.00	0.61	-64.66	-13.00	51.66
956.30	V	34.25	-60.95	0.00	0.61	-61.56	-13.00	48.56
7950.000	Н	45.46	-43.03	10.81	2.08	-34.3	-13.00	21.30
7950.000	V	44.90	-44.03	10.81	2.08	-35.3	-13.00	22.30

## N78\_Lower Band:

		D	Substi	tuted Metho	d	Abaalaata		
Frequency (MHz)	Polar (H/V)	Receiver Reading (dBµV)	Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
	1	0MHz QPSH	K, Frequency:	3455	MHz			
954.70	Н	33.59	-64.06	0.00	0.60	-64.66	-13.00	51.66
954.70	V	33.88	-61.36	0.00	0.60	-61.96	-13.00	48.96
6910.000	Н	45.51	-45.55	11.22	1.87	-36.2	-13.00	23.20
6910.000	V	44.38	-46.55	11.22	1.87	-37.2	-13.00	24.20
	1	0MHz QPSH	K, Frequency:	3500	MHz			
951.20	Н	33.87	-63.88	0.00	0.58	-64.46	-13.00	51.46
951.20	V	33.93	-61.38	0.00	0.58	-61.96	-13.00	48.96
7000.000	Н	45.39	-45.41	11.20	1.89	-36.10	-13.00	23.10
7000.000	V	44.24	-46.41	11.20	1.89	-37.10	-13.00	24.10
	10MHz QPSK, Frequency:			3545	MHz			
956.00	Н	55.85	-41.76	0.00	0.60	-42.36	-13.00	29.36
956.00	V	34.05	-61.16	0.00	0.60	-61.76	-13.00	48.76
7090.000	Н	43.81	-45.75	11.15	1.90	-36.5	-13.00	23.50
7090.000	V	44.53	-44.95	11.15	1.90	-35.7	-13.00	22.70

## N78\_Upper Band:

		Dession	Substi	tuted Metho	d	Abaabata		
Frequency (MHz)	Polar (H/V)	Receiver Reading (dBµV)	Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
10MHz QPSK, Frequency:			3705	MHz				
952.60	Н	34.04	-63.67	0.00	0.59	-64.26	-13.00	51.26
952.60	V	32.61	-62.67	0.00	0.59	-63.26	-13.00	50.26
7410.000	Н	45.97	-43.30	10.95	2.05	-34.4	-13.00	21.40
7410.000	V	46.91	-43.10	10.95	2.05	-34.2	-13.00	21.20
10MHz QPSK, Frequency:				3750	MHz			
955.50	Н	34.16	-63.46	0.00	0.60	-64.06	-13.00	51.06
955.50	V	32.76	-62.46	0.00	0.60	-63.06	-13.00	50.06
7500.000	Н	46.66	-43.16	10.90	1.94	-34.2	-13.00	21.20
7500.000	V	47.44	-42.86	10.90	1.94	-33.9	-13.00	20.90
	10MHz QPSK, Frequency:			3795	MHz			
957.40	Н	34.42	-63.15	0.00	0.61	-63.76	-13.00	50.76
957.40	V	32.93	-62.25	0.00	0.61	-62.86	-13.00	49.86
7590.000	Н	46.73	-42.78	10.88	2.00	-33.9	-13.00	20.90
7590.000	V	47.82	-42.38	10.88	2.00	-33.5	-13.00	20.50

### DC\_5A\_N7A:

		Dession	Substi	tuted Metho	d	Abaabata		
Frequency (MHz)	Polar (H/V)	Receiver Reading (dBµV)	Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
		5MHz QPSI	K, Frequency:	2502.5	MHz			
955.20	Н	30.77	-66.86	0.00	0.60	-67.46	-25.00	42.46
955.20	V	31.57	-63.66	0.00	0.60	-64.26	-25.00	39.26
5005.000	Н	39.03	-53.93	11.20	1.47	-44.2	-25.00	19.20
5005.000	V	38.09	-54.73	11.20	1.47	-45	-25.00	20.00
		5MHz QPSI	K, Frequency:	2535	MHz			
958.60	Н	30.88	-66.65	0.00	0.61	-67.26	-25.00	42.26
958.60	V	31.80	-63.35	0.00	0.61	-63.96	-25.00	38.96
5070.000	Н	34.62	-58.57	11.24	1.47	-48.8	-25.00	23.80
5070.000	V	34.02	-59.07	11.24	1.47	-49.3	-25.00	24.30
		5MHz QPSI	K, Frequency:	2567.5	MHz			
952.50	Н	31.24	-66.47	0.00	0.59	-67.06	-25.00	42.06
952.50	V	32.12	-63.17	0.00	0.59	-63.76	-25.00	38.76
5135.000	Н	34.59	-59.01	11.28	1.47	-49.2	-25.00	24.20
5135.000	V	35.08	-58.41	11.28	1.47	-48.6	-25.00	23.60

DC 5A N38A:	:
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		D	Substi	tuted Metho	d			
Frequency (MHz)	Polar (H/V)	Receiver Reading (dBµV)	Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
	1	0MHz QPSI	K, Frequency:	2575	MHz			
954.30	Н	31.70	-65.96	0.00	0.60	-66.56	-25.00	41.56
954.30	V	32.59	-62.66	0.00	0.60	-63.26	-25.00	38.26
5150.000	Н	42.57	-51.16	11.29	1.43	-41.3	-25.00	16.30
5150.000	V	41.65	-51.96	11.29	1.43	-42.1	-25.00	17.10
	1	0MHz QPSI	K, Frequency:	2595	MHz			
954.50	Н	31.89	-65.76	0.00	0.60	-66.36	-25.00	41.36
954.50	V	32.68	-62.56	0.00	0.60	-63.16	-25.00	38.16
5190.000	Н	43.40	-50.67	11.31	1.44	-40.8	-25.00	15.80
5190.000	V	42.35	-51.57	11.31	1.44	-41.7	-25.00	16.70
	1	0MHz QPSI	K, Frequency:	2615	MHz			
957.00	Н	32.03	-65.55	0.00	0.61	-66.16	-25.00	41.16
957.00	V	32.94	-62.25	0.00	0.61	-62.86	-25.00	37.86
5230.000	Н	44.55	-49.38	11.34	1.46	-39.5	-25.00	14.50
5230.000	V	43.77	-49.98	11.34	1.46	-40.1	-25.00	15.10

### DC\_5A\_N40A:

		D <b>!</b>	Substi	tuted Metho	d	Abaabata		
Frequency (MHz)	Polar (H/V)	Receiver Reading (dBµV)	Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
	10MHz QPSK, Frequency: 2310 MHz							
955.10	Н	32.58	-65.06	0.00	0.60	-65.66	-40.00	25.66
955.10	V	31.77	-63.46	0.00	0.60	-64.06	-40.00	24.06
4620.000	Н	39.19	-56.13	10.74	1.41	-46.8	-40.00	6.80
4620.000	V	41.36	-53.83	10.74	1.41	-44.5	-40.00	4.50
	10MHz QPSK, Frequency:				MHz			
952.30	Н	32.75	-64.97	0.00	0.59	-65.56	-40.00	25.56
952.30	V	32.02	-63.27	0.00	0.59	-63.86	-40.00	23.86
4710.000	Н	37.81	-56.94	10.85	1.41	-47.5	-40.00	7.50
4710.000	V	40.22	-54.54	10.85	1.41	-45.1	-40.00	5.10

### DC\_5A\_N41A:

		Dereihum	Substi	tuted Metho	d	Abaabata		
Frequency (MHz)	Polar (H/V)	Receiver Reading (dBµV)	Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
10MHz QPSK, Frequency:				2501.01	MHz			
957.40	Н	31.32	-66.25	0.00	0.61	-66.86	-25.00	41.86
957.40	V	32.13	-63.05	0.00	0.61	-63.66	-25.00	38.66
5002.020	Н	41.13	-51.82	11.20	1.48	-42.1	-25.00	17.10
5002.020	V	41.39	-51.42	11.20	1.48	-41.7	-25.00	16.70
10MHz QPSK, Frequency: 2592.99					MHz			
951.80	Н	31.67	-66.07	0.00	0.59	-66.66	-25.00	41.66
951.80	V	32.33	-62.97	0.00	0.59	-63.56	-25.00	38.56
5185.980	Н	43.16	-50.87	11.31	1.44	-41	-25.00	16.00
5185.980	V	41.62	-52.27	11.31	1.44	-42.4	-25.00	17.40
	1	0MHz QPSI	K, Frequency:	2685	MHz			
956.60	Н	31.94	-65.65	0.00	0.61	-66.26	-25.00	41.26
956.60	V	32.55	-62.65	0.00	0.61	-63.26	-25.00	38.26
5370.000	Н	43.07	-50.44	11.42	1.48	-40.5	-25.00	15.50
5370.000	V	42.34	-51.14	11.42	1.48	-41.2	-25.00	16.20

DC 5A N	66:
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		D	Substi	tuted Metho	d			
Frequency (MHz)	Polar (H/V)	Receiver Reading (dBµV)	Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
	5MHz QPSK, Frequency:				MHz			
957.30	Н	33.42	-64.15	0.00	0.61	-64.76	-13.00	51.76
957.30	V	32.83	-62.35	0.00	0.61	-62.96	-13.00	49.96
3425.000	Н	47.87	-49.90	10.37	1.17	-40.7	-13.00	27.70
3425.000	V	47.24	-50.50	10.37	1.17	-41.3	-13.00	28.30
		5MHz QPSI	K, Frequency:	1745	MHz			
955.00	Н	33.68	-63.96	0.00	0.60	-64.56	-13.00	51.56
955.00	V	33.07	-62.16	0.00	0.60	-62.76	-13.00	49.76
3490.000	Н	49.31	-48.53	10.40	1.17	-39.3	-13.00	26.30
3490.000	V	46.95	-50.83	10.40	1.17	-41.6	-13.00	28.60
		5MHz QPSI	K, Frequency:	1777.5	MHz			
954.80	Н	33.89	-63.76	0.00	0.60	-64.36	-13.00	51.36
954.80	V	33.18	-62.06	0.00	0.60	-62.66	-13.00	49.66
3555.000	Н	48.25	-49.44	10.46	1.22	-40.2	-13.00	27.20
3555.000	V	48.74	-48.84	10.46	1.22	-39.6	-13.00	26.60

DC SA N/I	DC	<b>5</b> A	N77:
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Frequency (MHz)	Polar (H/V)	Receiver Reading (dBµV)	Substituted Method					
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
	3705	MHz						
956.20	Н	33.84	-63.76	0.00	0.60	-64.36	-13.00	51.36
956.20	V	33.14	-62.06	0.00	0.60	-62.66	-13.00	49.66
7410.000	Н	43.57	-45.70	10.95	2.05	-36.8	-13.00	23.80
7410.000	V	43.51	-46.50	10.95	2.05	-37.6	-13.00	24.60
	0MHz QPSI	K, Frequency:	3840	MHz				
953.50	Н	33.31	-64.37	0.00	0.59	-64.96	-13.00	51.96
953.50	V	33.19	-62.07	0.00	0.59	-62.66	-13.00	49.66
7680.000	Н	45.46	-44.05	10.86	2.01	-35.2	-13.00	22.20
7680.000	V	44.44	-45.75	10.86	2.01	-36.9	-13.00	23.90
	K, Frequency:	3975	MHz					
959.00	Н	33.38	-64.14	0.00	0.62	-64.76	-13.00	51.76
959.00	V	33.30	-61.84	0.00	0.62	-62.46	-13.00	49.46
7950.000	Н	44.76	-43.73	10.81	2.08	-35	-13.00	22.00
7950.000	V	45.20	-43.73	10.81	2.08	-35	-13.00	22.00

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBµV)	Substituted Method					
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
	3705	MHz						
958.70	Н	31.08	-66.45	0.00	0.61	-67.06	-13.00	54.06
958.70	V	31.90	-63.25	0.00	0.61	-63.86	-13.00	50.86
7410.000	Н	42.57	-46.70	10.95	2.05	-37.8	-13.00	24.80
7410.000	V	43.31	-46.70	10.95	2.05	-37.8	-13.00	24.80
10MHz QPSK, Frequency:				3750	MHz			
959.30	Н	32.97	-64.54	0.00	0.62	-65.16	-13.00	52.16
959.30	V	32.20	-62.94	0.00	0.62	-63.56	-13.00	50.56
7500.000	Н	44.66	-45.16	10.90	1.94	-36.2	-13.00	23.20
7500.000	V	42.84	-47.46	10.90	1.94	-38.5	-13.00	25.50
10MHz QPSK, Frequency:				3795	MHz			
958.90	Н	33.08	-64.44	0.00	0.62	-65.06	-13.00	52.06
958.90	V	32.81	-62.34	0.00	0.62	-62.96	-13.00	49.96
7590.000	Н	42.53	-46.98	10.88	2.00	-38.1	-13.00	25.10
7590.000	V	44.52	-45.68	10.88	2.00	-36.8	-13.00	23.80

#### DC\_5A\_N78:

#### Note:

1) The unit of Antenna Gain is dBd for frequency below 1GHz, and the unit of Antenna Gain is dBi for frequency above 1GHz.

2) Absolute Level = Substituted Level - Cable loss + Antenna Gain

3) Margin = Limit-Absolute Level

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## **5. EUT PHOTOGRAPHS**

Please refer to the attachment CR231273520-EXP EUT EXTERNAL PHOTOGRAPHS and CR231273520-INP EUT INTERNAL PHOTOGRAPHS

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# 6. TEST SETUP PHOTOGRAPHS

Please refer to the attachment CR231273520-00G-TSP TEST SETUP PHOTOGRAPHS.

==== END OF REPORT =====