

Highest Band edge: n261-BW:50MHz-1CC-QPSK-Beam ID 23

Full RB-Horizontal Polarization



Full RB-Vertical Polarization



Highest Band edge: n261-BW:50MHz-1CC-QPSK-Beam ID 148

Full RB-Horizontal Polarization



Full RB-Vertical Polarization



Highest Band edge: n261-BW:50MHz-1CC-QPSK-Beam ID 19 + 147

Full RB-Horizontal Polarization



Full RB-Vertical Polarization



Lowest Band edge (n261-1CC-100 MHz)

Bandwidth (MHz)	CC	Modulation	Band edge	Beam ID	Resource block (RB)	Frequency Range (MHz)	Ant. Pol. (H/V)	EIRP (dBm)	Antenna Gain (dBi)	Conductive Power (dBm)	Limit (dBm)	Margin (dB)
100	1	BPSK	Lowest	20	1RB0	27490-27500	H	-10.41	19.23	-29.64	-5	-24.64
							V	-10.87	19.23	-30.10		
						<=27490	H	-16.11	19.23	-35.34	-13	-21.88
							V	-15.65	19.23	-34.88		
					20RB0	27490-27500	H	-6.65	19.23	-25.88	-5	-20.88
							V	-9.14	19.23	-28.37		
						<=27490	H	-9.12	19.23	-28.35	-13	-15.35
							V	-10.37	19.23	-29.60		
					64RB0	27495-27500	H	-9.26	19.23	-28.49	-5	-23.49
							V	-11.75	19.23	-30.98		
						<=27490	H	-12.86	19.23	-32.09	-13	-18.68
							V	-12.45	19.23	-31.68		
				147	1RB0	27490-27500	H	-12.09	19.23	-31.32	-5	-24.15
							V	-9.92	19.23	-29.15		
						<=27490	H	-15.19	19.23	-34.42	-13	-21.42
							V	-16.06	19.23	-35.29		
					20RB0	27490-27500	H	-8.55	19.23	-27.78	-5	-22.78
							V	-9.64	19.23	-28.87		
						<=27490	H	-11.76	19.23	-30.99	-13	-17.44
							V	-11.21	19.23	-30.44		
					64RB0	27490-27500	H	-10.61	19.23	-29.84	-5	-24.84
							V	-12.44	19.23	-31.67		
						<=27490	H	-13.68	19.23	-32.91	-13	-19.76
							V	-13.53	19.23	-32.76		
19+147	1RB0	27490-27500	H	-10.10	19.23	-29.33	-5	-18.23				
			V	-4.00	19.23	-23.23						
		<=27490	H	-16.96	19.23	-36.19	-13	-18.10				
			V	-11.87	19.23	-31.10						
	20RB0	27490-27500	H	-8.12	19.23	-27.35	-5	-18.08				
			V	-3.85	19.23	-23.08						
		<=27490	H	-10.67	19.23	-29.90	-13	-12.46				
			V	-6.23	19.23	-25.46						
	64RB0	27490-27500	H	-12.01	19.23	-31.24	-5	-20.05				
			V	-5.82	19.23	-25.05						
		<=27490	H	-13.92	19.23	-33.15	-13	-15.74				
			V	-9.51	19.23	-28.74						

Note: Conductive Power (dBm) = EIRP (dBm) – Antenna Gain (dBi)

Lowest Band edge: n261-BW:100MHz-1CC-BPSK-Beam ID 20

1RB0-Horizontal Polarization



1RB0-Vertical Polarization



20RB0-Horizontal Polarization



20RB0-Vertical Polarization



64RB0-Horizontal Polarization



64RB0-Vertical Polarization



Lowest Band edge: n261-BW:100MHz-1CC-BPSK-Beam ID 147

1RB0-Horizontal Polarization



1RB0-Vertical Polarization



20RB0-Horizontal Polarization



20RB0-Vertical Polarization



64RB0-Horizontal Polarization



64RB0-Vertical Polarization



Lowest Band edge: n261-BW:100MHz-ICC-BPSK-Beam ID 19 + 147

1RB0-Horizontal Polarization



1RB0-Vertical Polarization



20RB0-Horizontal Polarization



20RB0-Vertical Polarization



64RB0-Horizontal Polarization



64RB0-Vertical Polarization



Bandwidth (MHz)	CC	Modulation	Band edge	Beam ID	Resource block (RB)	Frequency Range (MHz)	Ant. Pol. (H/V)	EIRP (dBm)	Antenna Gain (dBi)	Conductive Power (dBm)	Limit (dBm)	Margin (dB)
100	1	QPSK	Lowest	20	Full RB	27490-27500	H	-10.89	19.23	-30.12	-5	-25.12
							V	-10.93	19.23	-30.16		
						<=27490	H	-10.99	19.23	-30.22	-13	-16.79
							V	-10.56	19.23	-29.79		
				147	Full RB	27490-27500	H	-10.39	19.23	-29.62	-5	-24.62
							V	-11.07	19.23	-30.30		
						<=27490	H	-11.34	19.23	-30.57	-13	-17.53
							V	-11.30	19.23	-30.53		
				19+147	Full RB	27490-27500	H	-5.43	19.23	-24.66	-5	-19.66
							V	-6.17	19.23	-25.40		
						<=27490	H	-6.30	19.23	-25.53	-13	-12.53
							V	-7.00	19.23	-26.23		

Note: Conductive Power (dBm) = EIRP (dBm) – Antenna Gain (dBi)

Lowest Band edge: n261-BW:100MHz-1CC-QPSK-Beam ID 20

Full RB-Horizontal Polarization



Full RB-Vertical Polarization



Lowest Band edge: n261-BW:100MHz-1CC-QPSK-Beam ID 147

Full RB-Horizontal Polarization



Full RB-Vertical Polarization



Lowest Band edge: n261-BW:100MHz-1CC-QPSK-Beam ID 19 + 147

Full RB-Horizontal Polarization



Full RB-Vertical Polarization



Highest Band edge (n261-1CC-100 MHz)

Bandwidth (MHz)	CC	Modulation	Band edge	Beam ID	Resource block (RB)	Frequency Range (MHz)	Ant. Pol. (H/V)	EIRP (dBm)	Antenna Gain (dBi)	Conductive Power (dBm)	Limit (dBm)	Margin (dB)
100	1	QPSK	Highest	20	1RB65	28350-28360	H	-13.38	19.42	-32.80	-5	-25.03
							V	-10.61	19.42	-30.03		
						>=28360	H	-15.28	19.42	-34.70	-13	-20.60
							V	-14.18	19.42	-33.60		
					22RB46	28350-28360	H	-9.41	19.42	-28.83	-5	-23.57
							V	-9.15	19.42	-28.57		
						>=28360	H	-10.33	19.42	-29.75	-13	-16.75
							V	-11.32	19.42	-30.74		
					64RB2	28350-28360	H	-11.88	19.42	-31.30	-5	-26.30
							V	-12.05	19.42	-31.47		
						>=28360	H	-13.44	19.42	-32.86	-13	-19.86
							V	-13.95	19.42	-33.37		
				147	1RB65	28350-28360	H	-8.60	19.42	-28.02	-5	-23.02
							V	-12.25	19.42	-31.67		
						>=28360	H	-15.52	19.42	-34.94	-13	-21.94
							V	-16.13	19.42	-35.55		
					22RB46	28350-28360	H	-10.95	19.42	-30.37	-5	-23.88
							V	-9.46	19.42	-28.88		
						>=28360	H	-12.26	19.42	-31.68	-13	-17.90
							V	-11.48	19.42	-30.90		
					64RB2	28350-28360	H	-12.64	19.42	-32.06	-5	-26.21
							V	-11.79	19.42	-31.21		
						>=28360	H	-14.67	19.42	-34.09	-13	-20.39
							V	-13.97	19.42	-33.39		
19+147	1RB65	28350-28360	H	-15.79	19.42	-35.21	-5	-22.50				
			V	-8.08	19.42	-27.50						
		>=28360	H	-16.24	19.42	-35.66	-13	-18.36				
			V	-11.94	19.42	-31.36						
	22RB46	28350-28360	H	-12.87	19.42	-32.29	-5	-16.72				
			V	-2.30	19.42	-21.72						
		>=28360	H	-13.17	19.42	-32.59	-13	-10.77				
			V	-4.35	19.42	-23.77						
	30RB2	28350-28360	H	-12.27	19.42	-31.69	-5	-19.98				
			V	-5.56	19.42	-24.98						
		>=28360	H	-14.50	19.42	-33.92	-13	-14.55				
			V	-8.13	19.42	-27.55						

Note: Conductive Power (dBm) = EIRP (dBm) – Antenna Gain (dBi)

Highest Band edge: n261-BW:100MHz-1CC-BPSK-Beam ID 20

1RB65-Horizontal Polarization



1RB65-Vertical Polarization



20RB46-Horizontal Polarization



20RB46-Vertical Polarization



64RB2-Horizontal Polarization



64RB2-Vertical Polarization



Highest Band edge: n261-BW:100MHz-1CC-BPSK-Beam ID 147

1RB65-Horizontal Polarization



1RB65-Vertical Polarization



20RB46-Horizontal Polarization



20RB46-Vertical Polarization



64RB2-Horizontal Polarization



64RB2-Vertical Polarization



Highest Band edge: n261-BW:100MHz-1CC-BPSK-Beam ID 19 + 147

1RB65-Horizontal Polarization



1RB65-Vertical Polarization



20RB46-Horizontal Polarization



20RB46-Vertical Polarization



64RB2-Horizontal Polarization



64RB2-Vertical Polarization



Bandwidth (MHz)	CC	Modulation	Band edge	Beam ID	Resource block (RB)	Frequency Range (MHz)	Ant. Pol. (H/V)	EIRP (dBm)	Antenna Gain (dBi)	Conductive Power (dBm)	Limit (dBm)	Margin (dB)
100	1	QPSK	Highest	20	Full RB	28350- 28360	H	-10.74	19.42	-30.16	-5	-25.16
							V	-10.84	19.42	-30.26		
						>=28360	H	-11.73	19.42	-31.15	-13	-18.15
							V	-11.94	19.42	-31.36		
				148	Full RB	28350- 28360	H	-11.00	19.42	-30.42	-5	-24.95
							V	-10.53	19.42	-29.95		
						>=28360	H	-12.33	19.42	-31.75	-13	-18.62
							V	-12.20	19.42	-31.62		
				19+147	Full RB	28350- 28360	H	-7.63	19.42	-27.05	-5	-21.96
							V	-7.54	19.42	-26.96		
						>=28360	H	-8.13	19.42	-27.55	-13	-14.55
							V	-8.14	19.42	-27.56		

Note: Conductive Power (dBm) = EIRP (dBm) – Antenna Gain (dBi)

Highest Band edge: n261-BW:100MHz-1CC-QPSK-Beam ID 20

Full RB-Horizontal Polarization



Full RB-Vertical Polarization



Highest Band edge: n261-BW:100MHz-1CC-QPSK-Beam ID 147

Full RB-Horizontal Polarization



Full RB-Vertical Polarization



Highest Band edge: n261-BW:100MHz-1CC-QPSK-Beam ID 19 + 147

Full RB-Horizontal Polarization



Full RB-Vertical Polarization



Lowest Band edge (n261-2CC-50 MHz)

Bandwidth (MHz)	CC	Modulation	Band edge	Beam ID	Resource block (RB)	Frequency Range (MHz)	Ant. Pol. (H/V)	EIRP (dBm)	Antenna Gain (dBi)	Conductive Power (dBm)	Limit (dBm)	Margin (dB)
50	2	QPSK	Lowest	148	Full RB	27495-27500	H	-11.59	19.23	-30.82	-5	-25.79
							V	-11.56	19.23	-30.79		
						<=27495	H	-11.77	19.23	-31.00	-13	-17.90
							V	-11.67	19.23	-30.90		

Note: Conductive Power (dBm) = EIRP (dBm) – Antenna Gain (dBi)

Lowest Band edge: n260-BW:50MHz-2CC-QPSK-Beam ID 148

Full RB-Horizontal Polarization



Full RB-Vertical Polarization



Highest Band edge (n261-2CC-50 MHz)

Bandwidth (MHz)	CC	Modulation	Band edge	Beam ID	Resource block (RB)	Frequency Range (MHz)	Ant. Pol. (H/V)	EIRP (dBm)	Antenna Gain (dBi)	Conductive Power (dBm)	Limit (dBm)	Margin (dB)
50	2	QPSK	Highest	148	Full RB	28350-28355	H	-11.00	19.42	-30.42	-5	-25.42
							V	-11.47	19.42	-30.89		
						>=28355	H	-10.79	19.42	-30.21	-13	-17.21
							V	-11.39	19.42	-30.81		

Note: Conductive Power (dBm) = EIRP (dBm) – Antenna Gain (dBi)

Highest Band edge: n260-BW:50MHz-2CC-QPSK-Beam ID 148

Full RB-Horizontal Polarization



Full RB-Vertical Polarization



Lowest Band edge (n261-2CC-100 MHz)

Bandwidth (MHz)	CC	Modulation	Band edge	Beam ID	Resource block (RB)	Frequency Range (MHz)	Ant. Pol. (H/V)	EIRP (dBm)	Antenna Gain (dBi)	Conductive Power (dBm)	Limit (dBm)	Margin (dB)
100	2	QPSK	Lowest	19	Full RB	27490-27500	H	-13.99	19.23	-33.22	-5	-28.22
							V	-14.15	19.23	-33.38		
						<=27490	H	-13.98	19.23	-33.21	-13	-19.12
							V	-12.89	19.23	-32.12		

Note: Conductive Power (dBm) = EIRP (dBm) – Antenna Gain (dBi)

Lowest Band edge: n260-BW:100MHz-2CC-QPSK-Beam ID 19

Full RB-Horizontal Polarization



Full RB-Vertical Polarization



Highest Band edge (n261-2CC-100 MHz)

Bandwidth (MHz)	CC	Modulation	Band edge	Beam ID	Resource block (RB)	Frequency Range (MHz)	Ant. Pol. (H/V)	EIRP (dBm)	Antenna Gain (dBi)	Conductive Power (dBm)	Limit (dBm)	Margin (dB)
100	2	QPSK	Highest	19	Full RB	28350-28360	H	-15.84	19.42	-35.26	-5	-30.26
							V	-16.26	19.42	-35.68		
						>=28360	H	-16.33	19.42	-35.75	-13	-22.20
							V	-15.78	19.42	-35.20		

Note: Conductive Power (dBm) = EIRP (dBm) – Antenna Gain (dBi)

Highest Band edge: n260-BW:100MHz-2CC-QPSK-Beam ID 19

Full RB-Horizontal Polarization

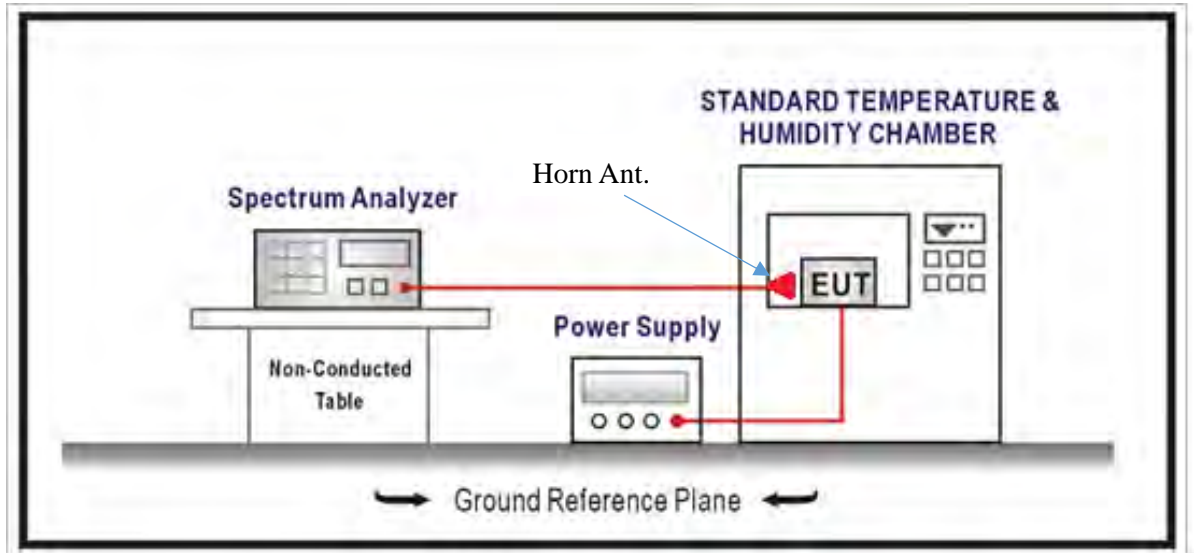


Full RB-Vertical Polarization



6. Frequency Stability

6.1. Test Setup



6.2. Limits

The fundamental emissions within the authorized frequency band by variation the temperature from -30°C to $+50^{\circ}\text{C}$ and variation the primary voltage from 85% to 115% of the nominal supply voltage.

6.3. Test Procedure

Frequency stability of the transmitter is measured by:

a.) Temperature: The temperature is varied from -30°C to $+50^{\circ}\text{C}$ in 10°C increments using an environmental chamber.

b.) Primary Supply Voltage: The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

1. The equipment is turned on in a “standby” condition for fifteen minutes before applying power to the transmitter. Measurement of the carrier Frequency of the transmitter is made within one minute after applying power to the transmitter.

2. Frequency measurements are made at 10°C intervals ranging from -30°C to $+50^{\circ}\text{C}$. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

6.4. Test Results

Test mode	Band	n260				
	Modulation	CW				
	Voltage (Vac)	120				
	Frequency (MHz)	38509.81409				
Temperature (°C)	Voltage (Vac)	Test Frequency (MHz)	Deviation			Test Result (Pass/Fail)
			(kHz)	(%)	(PPM)	
-30	120	38510.18023	366.14	0.0009508	9.51	Pass
-20		38510.12885	314.76	0.0008174	8.17	
-10		38510.01307	198.98	0.0005167	5.17	
0		38509.93131	117.22	0.0003044	3.04	
10		38509.85534	41.25	0.0001071	1.07	
20		38509.81409	0.00	0.0000000	0.00	
30		38509.68818	-125.91	-0.0003270	-3.27	
40		38509.70193	-112.16	-0.0002913	-2.91	
50		38509.69035	-123.74	-0.0003213	-3.21	
55		38509.68951	-124.58	-0.0003235	-3.24	
Voltage (Vac)		Test Frequency (MHz)	Deviation			Test Result (Pass/Fail)
			(kHz)	(%)	(PPM)	
138		38509.70989	-104.20	-0.0002706	-2.71	Pass
120		38509.81409	0.00	0.0000000	0.00	
102		38509.71568	-98.41	-0.0002555	-2.56	

Test mode		Band	n261			
		Modulation	CW			
		Voltage (Vac)	120			
		Frequency (MHz)	27934.83212			
Temperature (°C)	Voltage (Vac)	Test Frequency (MHz)	Deviation (kHz)	Deviation (%)	Deviation (PPM)	Test Result (Pass/Fail)
-30	120	27935.11939	287.27	0.0010284	10.28	Pass
-20		27935.07163	239.51	0.0008574	8.57	
-10		27935.01374	181.62	0.0006502	6.50	
0		27934.93126	99.14	0.0003549	3.55	
10		27934.89508	62.96	0.0002254	2.25	
20		27934.83212	0	0.0000000	0.00	
30		27934.77134	-60.78	-0.0002176	-2.18	
40		27934.77062	-61.5	-0.0002202	-2.20	
50		27934.76699	-65.13	-0.0002331	-2.33	
55		27934.76619	-65.93	-0.0002360	-2.36	
Voltage (Vac)		Test Frequency (MHz)	Deviation (kHz)	Deviation (%)	Deviation (PPM)	Test Result (Pass/Fail)
138		27934.79015	-41.97	-0.00015024	-1.50	Pass
120		27934.83212	0	0	0.00	
102		27934.7887	-43.42	-0.00015543	-1.55	