

FREQUENCY STABILITY

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	LV	NT	-14.18	-0.017105	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	NT	-8.10	-0.009771	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	HV	NT	-9.64	-0.011628	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	LV	NT	-9.36	-0.011189	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	NT	-5.62	-0.006718	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	HV	NT	-10.21	-0.012206	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	LV	NT	-10.53	-0.012476	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	NT	-6.07	-0.007192	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	HV	NT	-13.13	-0.015557	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	NV	-30	-9.01	-0.010869	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	-20	-8.88	-0.010712	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	-10	-10.01	-0.012075	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	0	-3.78	-0.004560	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	10	-11.03	-0.013305	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	20	-11.83	-0.014270	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	30	-6.95	-0.008384	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	40	-11.43	-0.013788	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	50	-10.54	-0.012714	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-30	-8.73	-0.010436	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	-10.06	-0.012026	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-10	-8.13	-0.009719	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	0	-4.86	-0.005810	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	10	-6.79	-0.008117	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	20	-9.88	-0.011811	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	30	-9.28	-0.011094	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	-3.72	-0.004447	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	-10.51	-0.012564	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-30	-4.85	-0.005746	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-20	-11.44	-0.013555	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-10	-10.96	-0.012986	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	0	-11.86	-0.014052	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	10	-7.00	-0.008294	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	20	-11.87	-0.014064	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	30	-7.87	-0.009325	±2.5	PASS

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Band5	10MHz	QPSK	20600	50RB#0	NV	40	-10.89	-0.012903	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	50	-12.25	-0.014514	±2.5	PASS

Note: LV = Low voltage(3.5V); NV = Normal voltage(3.8V); HV = High voltage(4.2V);NT = Normal temperature (25℃).

MAX Deviation calculation

Frequency Stability	Frequency (MHz)	Limit Line(MHz)	Result
$f_L - \text{MAX}(\Delta f) $	824.509700	≥ 824	PASS
$f_H - \text{MAX}(\Delta f) $	848.48755	≤ 849	

Note : 1. $|\text{MAX}(\Delta f)|$ = Max Deviation

2. f_L = Occ low channel f_L (-13dBm/MHz)

3. f_H = Occ High channel f_H (-13dBm/MHz)

4. $|\text{MAX}(\Delta f)|$ = -14.18Hz.

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