



FREQUENCY STABILITY

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band2	20MHz	QPSK	18700	100RB#0	LV	NT	-10.16	-0.005462	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	NT	-10.89	-0.005855	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	HV	NT	4.94	0.002656	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	LV	NT	-10.96	-0.005830	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	NT	-10.07	-0.005356	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	HV	NT	-9.24	-0.004915	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	LV	NT	-10.47	-0.005511	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	NT	-9.37	-0.004932	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	HV	NT	4.38	0.002305	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band2	20MHz	QPSK	18700	100RB#0	NV	-30	-6.28	-0.003376	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	-20	-14.28	-0.007677	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	-10	-4.48	-0.002409	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	0	-7.95	-0.004274	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	10	-10.11	-0.005435	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	20	-9.68	-0.005204	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	30	-6.05	-0.003253	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	40	-6.71	-0.003608	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	50	-12.32	-0.006624	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	-30	-3.92	-0.002085	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	-20	-15.75	-0.008378	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	-10	-12.04	-0.006404	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	0	-7.88	-0.004191	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	10	-16.29	-0.008665	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	20	-6.69	-0.003559	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	30	-13.56	-0.007213	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	40	-13.50	-0.007181	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	50	-14.15	-0.007527	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	-30	-10.44	-0.005495	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	-20	-5.99	-0.003153	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	-10	-12.35	-0.006500	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	0	-15.85	-0.008342	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	10	-13.33	-0.007016	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	20	-12.62	-0.006642	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	30	-11.84	-0.006232	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	40	-7.61	-0.004005	±2.5	PASS



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VERITAS

Test Report No.: W7L-P23030003RF05

Band2	20MHz	QPSK	19100	100RB#0	NV	50	-7.68	-0.004042	±2.5	PASS
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Note: LV = Low voltage(3.5V); NV = Normal voltage(3.8V); HV = High voltage(4.2V);
 NT = Normal temperature (25°C).

MAX Deviation calculation

Frequency Stability	Frequency (MHz)	Limit Line(MHz)	Result
$f_L - \text{MAX}(\Delta f) $	1851.018500	≥ 1850	PASS
$f_H - \text{MAX}(\Delta f) $	1908.961000	≤ 1910	

- Note :
1. $|\text{MAX}(\Delta f)|$ = Max Deviation
 2. f_L = Occ low channel $f_L(-13\text{dBm/MHz})$
 3. f_H = Occ High channel $f_H(-13\text{dBm/MHz})$
 4. $|\text{MAX}(\Delta f)|$ = -16.29Hz.

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