

Appendix Test Data

Report No.:	18220WC30015402	Test Sample No.:	1-2-2
Start Test Date:	2023.2.14	Finish Test Date:	2023.2.20
Test Engineer:	<i>Tony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3°C	Relative Humidity:	57 %
Pressure:	1012 hPa		

Appendix A: Conducted Output Power

Test Result

Band	Channel	Power(dBm)	Limit(dBm)	Verdict
Band4	1312	22.90	30.00	PASS
Band4	1413	22.65	30.00	PASS
Band4	1513	22.72	30.00	PASS

Band	Channel	SubTest	Power(dBm)	Limit(dBm)	Verdict
Band4	1312	1	21.80	30.00	PASS
Band4	1312	2	21.40	30.00	PASS
Band4	1312	3	21.23	30.00	PASS
Band4	1312	4	21.34	30.00	PASS
Band4	1413	1	21.66	30.00	PASS
Band4	1413	2	21.06	30.00	PASS
Band4	1413	3	21.00	30.00	PASS
Band4	1413	4	21.05	30.00	PASS
Band4	1513	1	21.76	30.00	PASS
Band4	1513	2	21.14	30.00	PASS
Band4	1513	3	21.16	30.00	PASS
Band4	1513	4	21.20	30.00	PASS

Band	Channel	SubTest	Power(dBm)	Limit(dBm)	Verdict
Band4	1312	1	21.91	30.00	PASS
Band4	1312	2	20.49	30.00	PASS
Band4	1312	3	20.02	30.00	PASS
Band4	1312	4	19.96	30.00	PASS

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Band4	1312	5	22.01	30.00	PASS
Band4	1413	1	21.65	30.00	PASS
Band4	1413	2	20.32	30.00	PASS
Band4	1413	3	19.96	30.00	PASS
Band4	1413	4	19.72	30.00	PASS
Band4	1413	5	21.67	30.00	PASS
Band4	1513	1	21.72	30.00	PASS
Band4	1513	2	20.39	30.00	PASS
Band4	1513	3	20.03	30.00	PASS
Band4	1513	4	19.78	30.00	PASS
Band4	1513	5	21.70	30.00	PASS

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Appendix B: Peak-to-Average Ratio

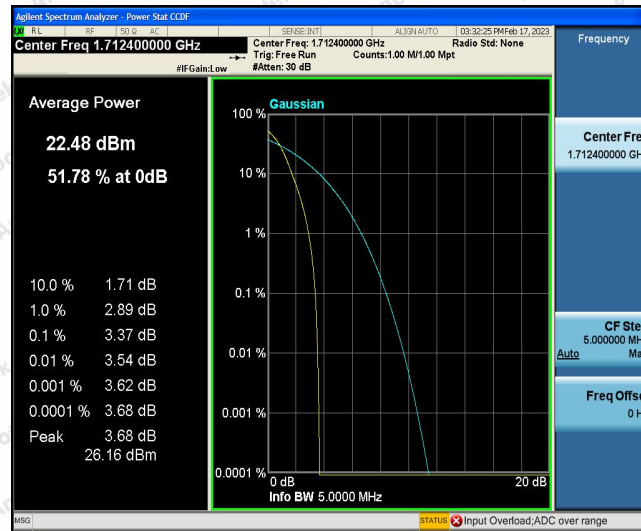
Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dBm)	Verdict
Band4	1312	3.37	13	PASS
Band4	1413	3.57	13	PASS
Band4	1513	3.42	13	PASS

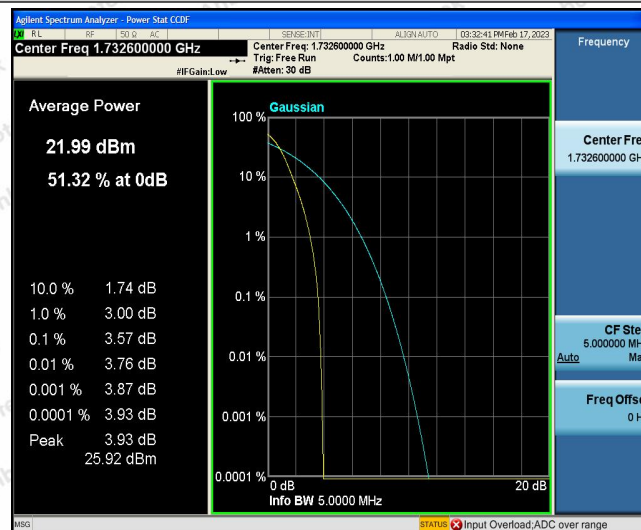


Test Graphs

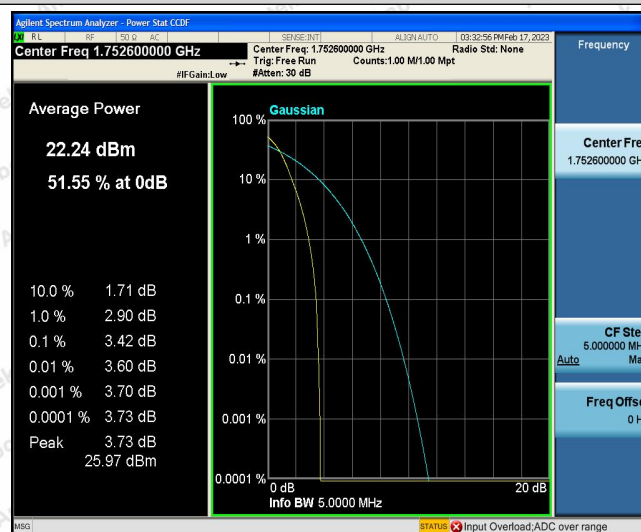
Band4-1312



Band4-1413



Band4-1513



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Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(kHz)	Verdict
Band4	1312	4.1260	4.673	---	PASS
Band4	1413	4.1230	4.676	---	PASS
Band4	1513	4.1200	4.691	---	PASS

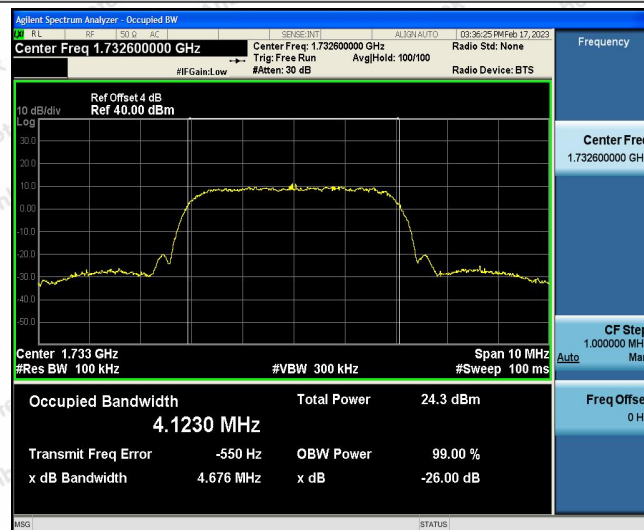


Test Graphs

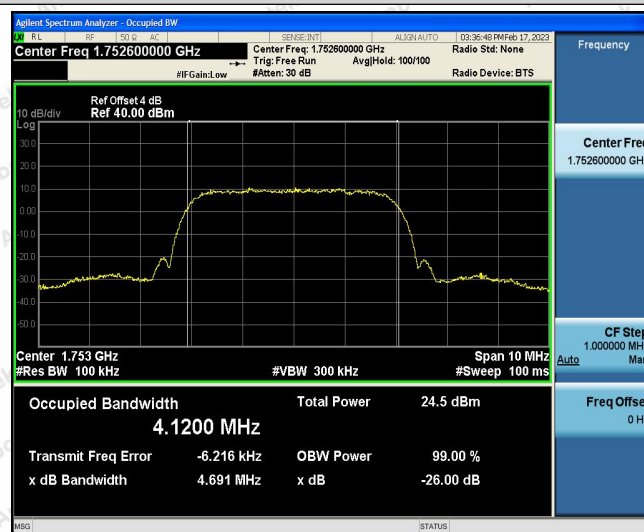
Band4-1312



Band4-1413



Band4-1513



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Appendix D: Band Edge

Test Result

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band4	1312	1709.86	-22.42	-13	PASS
Band4	1513	1755.20	-23.68	-13	PASS



Test Graphs

Band4-1312



Band4-1513



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Appendix E: Conducted Spurious Emission

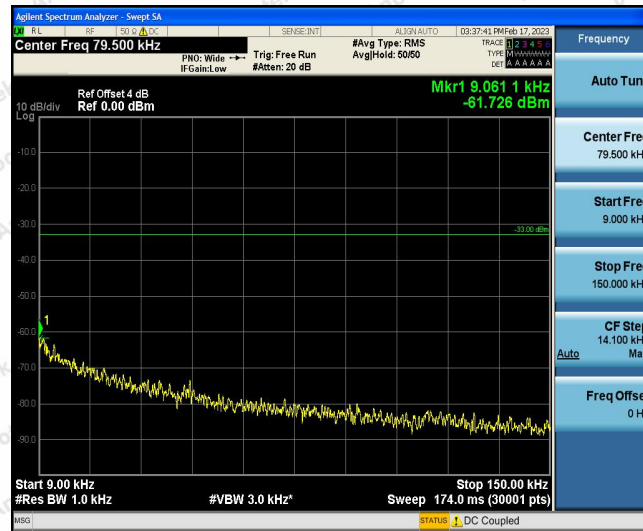
Test Result

Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band4	1312	0.009~0.15MHz	0.01	-61.73	-33	PASS
Band4	1312	0.15~30MHz	0.28	-55.74	-13	PASS
Band4	1312	30~1000MHz	861.78	-50.73	-13	PASS
Band4	1312	1000~3000MHz	2667.67	-48.29	-13	PASS
Band4	1312	3000~10000MHz	3426.53	-45.36	-13	PASS
Band4	1312	10000~18000MHz	16196.8	-59.02	-13	PASS
Band4	1413	0.009~0.15MHz	0.01	-59.5	-33	PASS
Band4	1413	0.15~30MHz	0.28	-56.34	-13	PASS
Band4	1413	30~1000MHz	822.68	-51.2	-13	PASS
Band4	1413	1000~3000MHz	2664.47	-48.28	-13	PASS
Band4	1413	3000~10000MHz	3466.67	-46.77	-13	PASS
Band4	1413	10000~18000MHz	16226.67	-59.01	-13	PASS
Band4	1513	0.009~0.15MHz	0.01	-61.59	-33	PASS
Band4	1513	0.15~30MHz	0.28	-55.52	-13	PASS
Band4	1513	30~1000MHz	968.9	-52.11	-13	PASS
Band4	1513	1000~3000MHz	2661.27	-48.14	-13	PASS
Band4	1513	3000~10000MHz	3503.77	-47.33	-13	PASS
Band4	1513	10000~18000MHz	16244.27	-59.07	-13	PASS

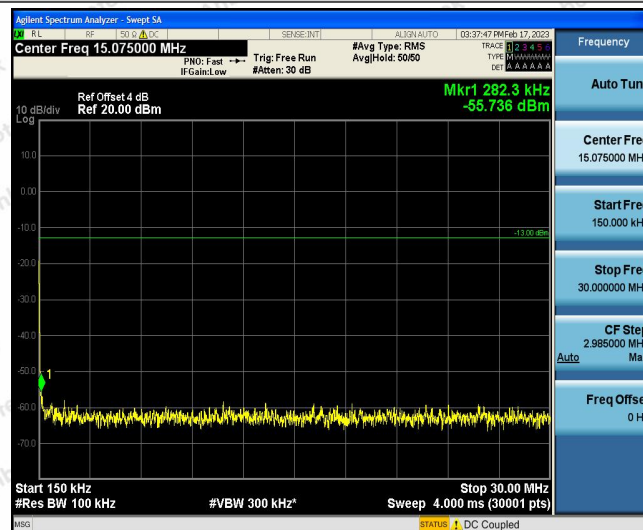


Test Graphs

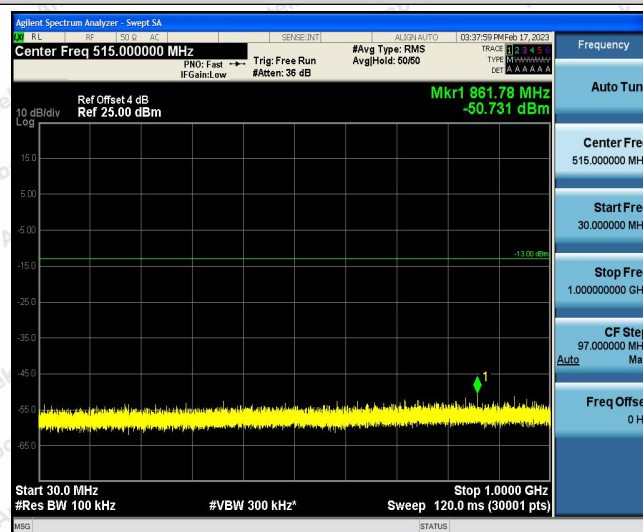
Band4-1312-0.009~0.15MHz



Band4-1312-0.15~30MHz



Band4-1312-30~1000MHz



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Band4-1312-1000~3000MHz



Band4-1312-3000~10000MHz



Band4-1312-10000~18000MHz



Band4-1413-0.009~0.15MHz

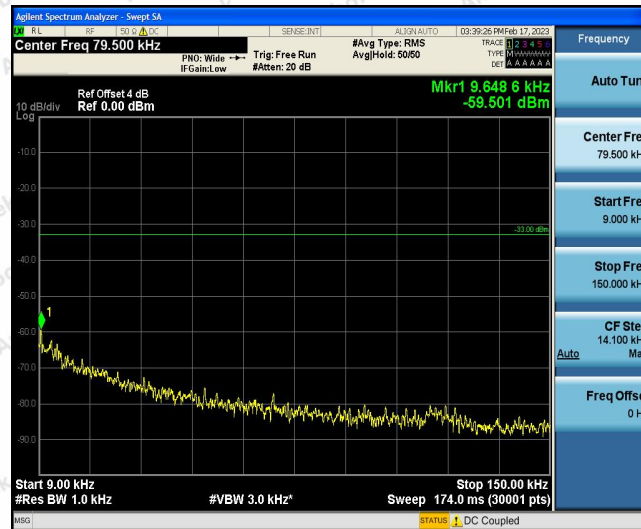
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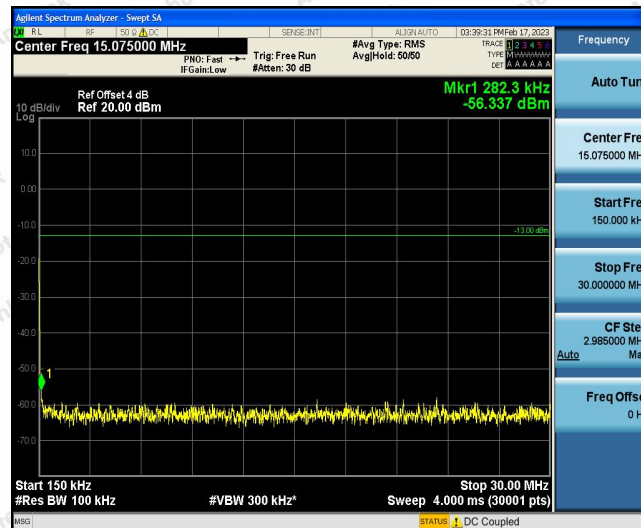


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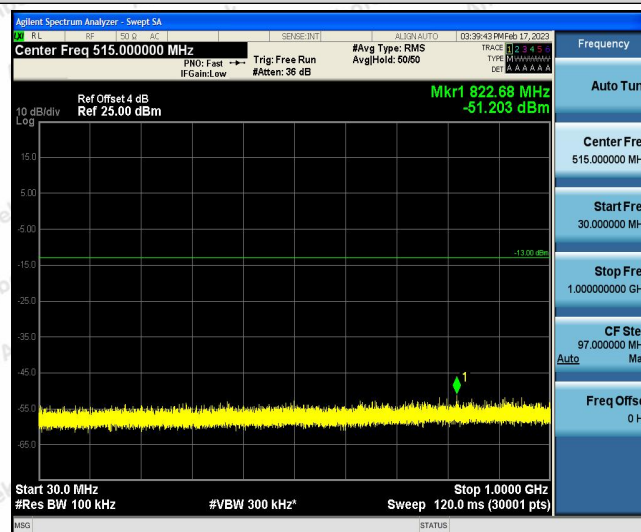




Band4-1413-0.15~30MHz



Band4-1413-30~1000MHz



Band4-1413-1000~3000MHz

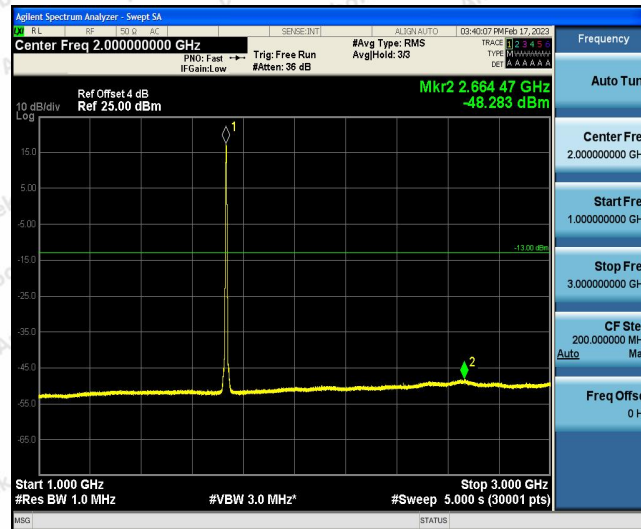
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Band4-1413-3000~10000MHz



Band4-1413-10000~18000MHz



Band4-1513-0.009~0.15MHz

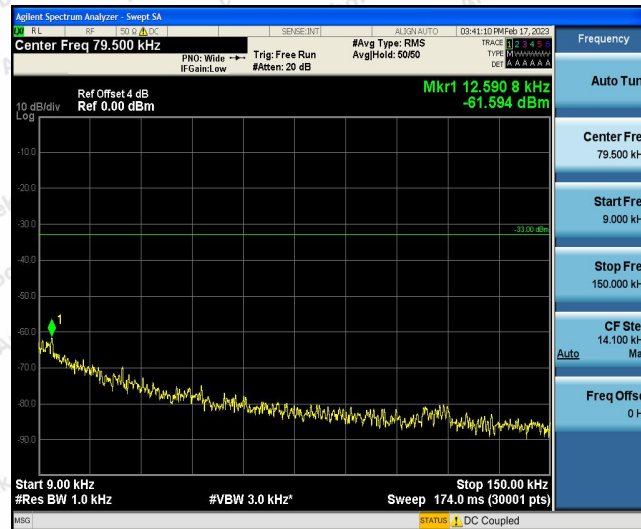
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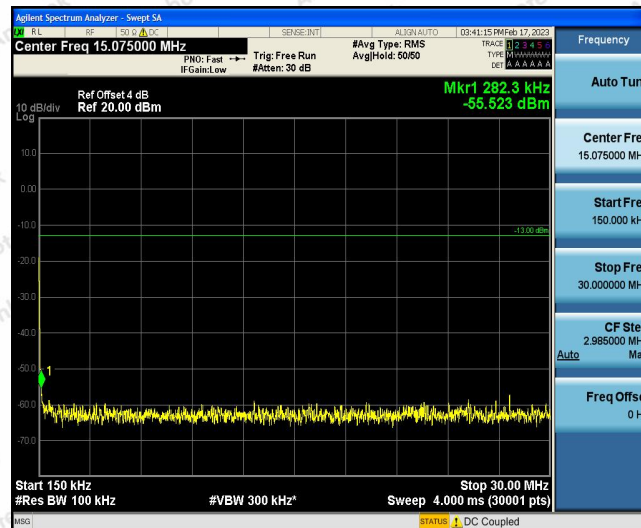


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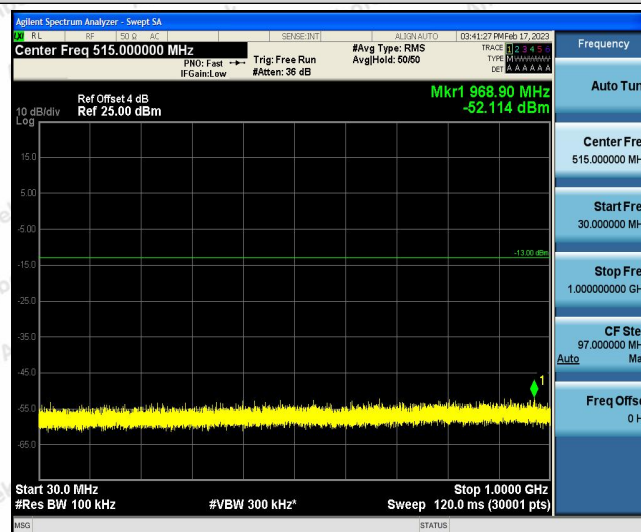




Band4-1513-0.15~30MHz



Band4-1513-30~1000MHz



Band4-1513-1000~3000MHz

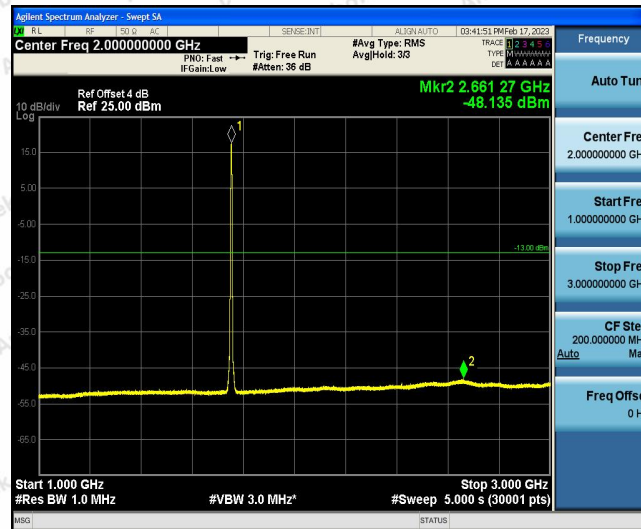
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Band4-1513-3000~10000MHz



Band4-1513-10000~18000MHz



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Appendix F: Frequency Stability VS Voltage measurement

Test Result

Voltage							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4	1312	VL	NT	11.08	0.006470	±2.5	PASS
Band4	1312	VN	NT	10.87	0.006348	±2.5	PASS
Band4	1312	VH	NT	11.21	0.006546	±2.5	PASS
Band4	1413	VL	NT	-0.02	-0.000012	±2.5	PASS
Band4	1413	VN	NT	-0.32	-0.000185	±2.5	PASS
Band4	1413	VH	NT	-0.21	-0.000121	±2.5	PASS
Band4	1513	VL	NT	-10.14	-0.005786	±2.5	PASS
Band4	1513	VN	NT	-10.59	-0.006042	±2.5	PASS
Band4	1513	VH	NT	-10.25	-0.005848	±2.5	PASS



Appendix G: Frequency Stability VS Temperature

measurement

Test Result

Temperature							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4	1312	NV	-30	11.39	0.006651	±2.5	PASS
Band4	1312	NV	-20	11.18	0.006529	±2.5	PASS
Band4	1312	NV	0	11.62	0.006786	±2.5	PASS
Band4	1312	NV	10	11.98	0.006996	±2.5	PASS
Band4	1312	NV	20	11.74	0.006856	±2.5	PASS
Band4	1413	NV	-30	0.24	0.000139	±2.5	PASS
Band4	1413	NV	-20	0.00	0.000000	±2.5	PASS
Band4	1413	NV	0	-0.09	-0.000052	±2.5	PASS
Band4	1413	NV	10	-0.17	-0.000098	±2.5	PASS
Band4	1413	NV	20	-0.31	-0.000179	±2.5	PASS
Band4	1513	NV	-30	-9.80	-0.005592	±2.5	PASS
Band4	1513	NV	-20	-10.46	-0.005968	±2.5	PASS
Band4	1513	NV	0	-10.48	-0.005980	±2.5	PASS
Band4	1513	NV	10	-10.48	-0.005980	±2.5	PASS
Band4	1513	NV	20	-10.21	-0.005826	±2.5	PASS

