

LTE Band 13 Test Data

Product Name : Tablet

Model Number : xTablet T1190

FCC ID : O86T1190

Applicant:	MobileDemand, L.C. 1501 Boyson Sq Dr, Ste 101 Hiawatha, Iowa, 52233, United States
Manufacturer:	MobileDemand, L.C. No.88 East Qianjin Road, Kunshan city, Jiangsu province, China
Product Description:	Tablet
Trademark:	MobileDemand
Model Number:	xTablet T1190

Appendix A: RF POWER OUTPUT

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band13	5MHz	64QAM	23205	1RB#0	21.54	PASS
Band13	5MHz	64QAM	23205	1RB#12	21.64	PASS
Band13	5MHz	64QAM	23205	1RB#24	21.56	PASS
Band13	5MHz	64QAM	23205	12RB#0	20.49	PASS
Band13	5MHz	64QAM	23205	12RB#6	20.47	PASS
Band13	5MHz	64QAM	23205	12RB#13	20.60	PASS
Band13	5MHz	64QAM	23205	25RB#0	20.66	PASS
Band13	5MHz	64QAM	23230	1RB#0	21.71	PASS
Band13	5MHz	64QAM	23230	1RB#12	21.74	PASS
Band13	5MHz	64QAM	23230	1RB#24	21.69	PASS
Band13	5MHz	64QAM	23230	12RB#0	20.66	PASS
Band13	5MHz	64QAM	23230	12RB#6	20.63	PASS
Band13	5MHz	64QAM	23230	12RB#13	20.66	PASS
Band13	5MHz	64QAM	23230	25RB#0	20.52	PASS
Band13	5MHz	64QAM	23255	1RB#0	21.57	PASS
Band13	5MHz	64QAM	23255	1RB#12	21.57	PASS
Band13	5MHz	64QAM	23255	1RB#24	21.54	PASS
Band13	5MHz	64QAM	23255	12RB#0	20.58	PASS
Band13	5MHz	64QAM	23255	12RB#6	20.57	PASS
Band13	5MHz	64QAM	23255	12RB#13	20.60	PASS
Band13	5MHz	64QAM	23255	25RB#0	20.59	PASS
Band13	10MHz	64QAM	23230	1RB#0	21.62	PASS
Band13	10MHz	64QAM	23230	1RB#24	21.57	PASS
Band13	10MHz	64QAM	23230	1RB#49	21.66	PASS
Band13	10MHz	64QAM	23230	25RB#0	20.59	PASS
Band13	10MHz	64QAM	23230	25RB#12	20.61	PASS
Band13	10MHz	64QAM	23230	25RB#25	20.59	PASS
Band13	10MHz	64QAM	23230	50RB#0	20.58	PASS

Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band13	5MHz	64QAM	23205	1RB#0	4.79	13	PASS
Band13	5MHz	64QAM	23205	25RB#0	6.11	13	PASS
Band13	5MHz	64QAM	23230	1RB#0	5.10	13	PASS
Band13	5MHz	64QAM	23230	25RB#0	6.05	13	PASS
Band13	5MHz	64QAM	23255	1RB#0	5.49	13	PASS
Band13	5MHz	64QAM	23255	25RB#0	6.08	13	PASS
Band13	10MHz	64QAM	23230	1RB#0	4.67	13	PASS
Band13	10MHz	64QAM	23230	50RB#0	6.15	13	PASS

Test Graphs

Band13-5MHz-64QAM-23205-1RB#0



Band13-5MHz-64QAM-23205-25RB#0



Band13-5MHz-64QAM-23230-1RB#0



Band13-5MHz-64QAM-23230-25RB#0



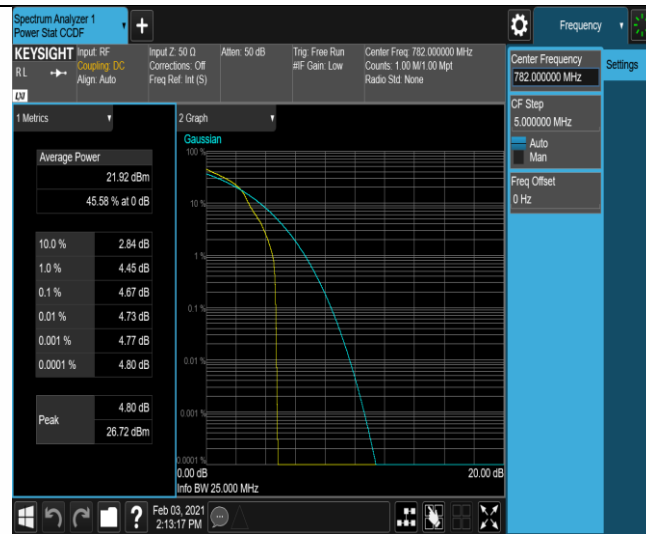
Band13-5MHz-64QAM-23255-1RB#0



Band13-5MHz-64QAM-23255-25RB#0



Band13-10MHz-64QAM-23230-1RB#0



Band13-10MHz-64QAM-23230-50RB#0



Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	64QAM	23205	25RB#0	4.5046	4.833	PASS
Band13	5MHz	64QAM	23230	25RB#0	4.4759	4.826	PASS
Band13	5MHz	64QAM	23255	25RB#0	4.5165	4.877	PASS
Band13	10MHz	64QAM	23230	50RB#0	8.9260	9.485	PASS

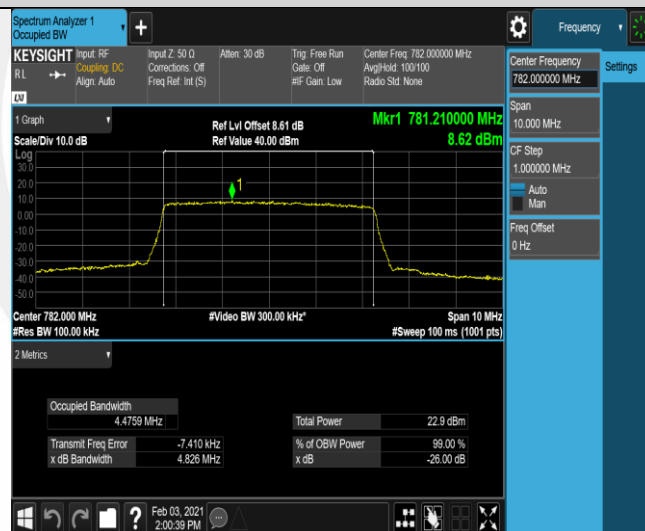


Test Graphs

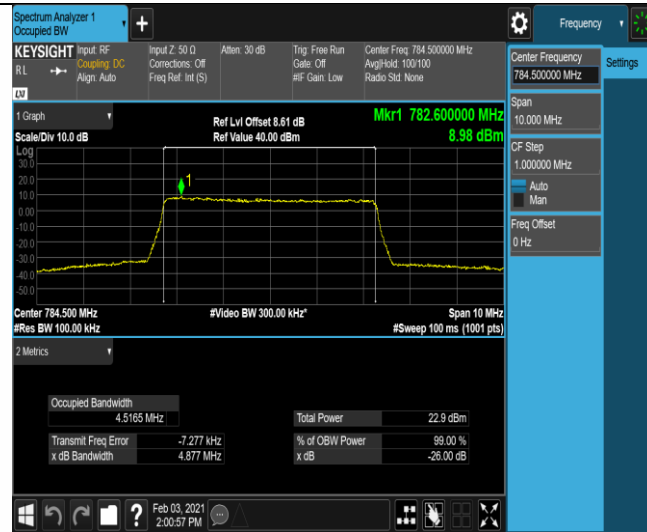
Band13-5MHz-64QAM-23205-25RB#0-4.5046



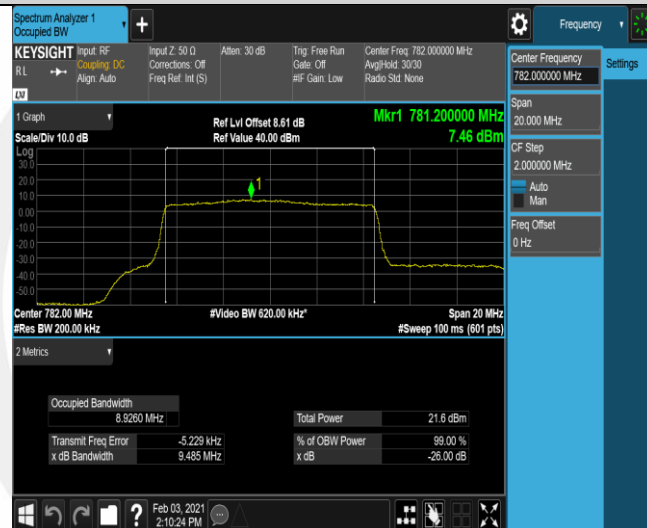
Band13-5MHz-64QAM-23230-25RB#0-4.4759



Band13-5MHz-64QAM-23255-25RB#0-4.5165



Band13-10MHz-64QAM-23230-50RB#0-8.9260



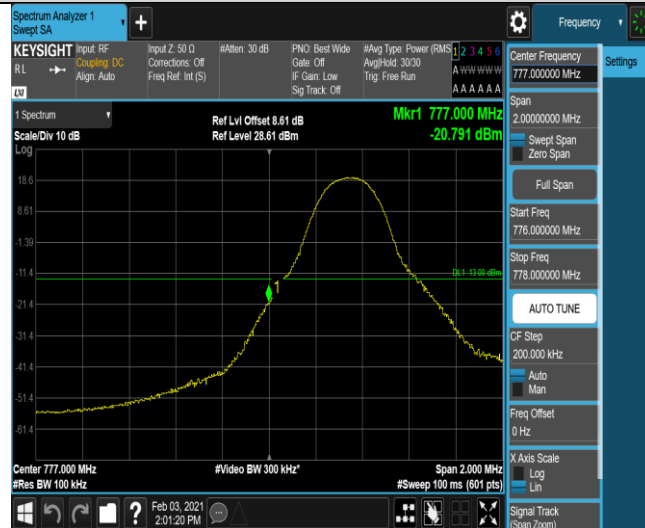
Appendix D: Band Edge

Test Result

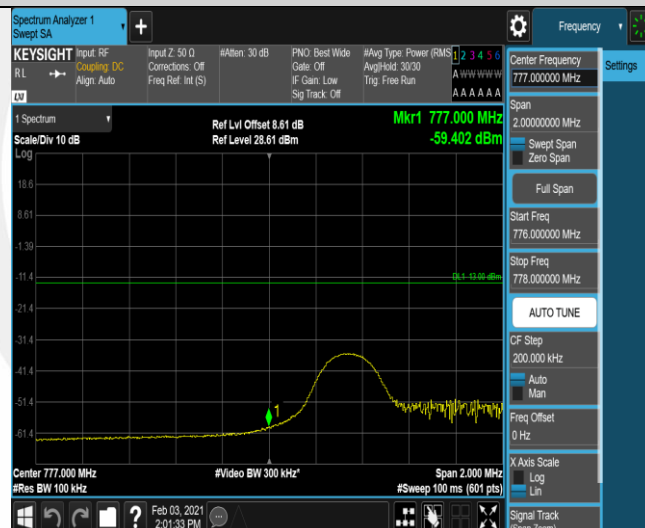
Band	Bandwidth	Modulation	Channel	RB Config.	Verdict
Band13	5MHz	64QAM	23205	1RB#0	PASS
Band13	5MHz	64QAM	23205	1RB#24	PASS
Band13	5MHz	64QAM	23205	25RB#0	PASS
Band13	5MHz	64QAM	23255	1RB#0	PASS
Band13	5MHz	64QAM	23255	1RB#24	PASS
Band13	5MHz	64QAM	23255	25RB#0	PASS
Band13	10MHz	64QAM	23230	1RB#0	PASS
Band13	10MHz	64QAM	23230	1RB#49	PASS
Band13	10MHz	64QAM	23230	50RB#0	PASS

Test Graphs

Band13-5MHz-64QAM-23205-1RB#0



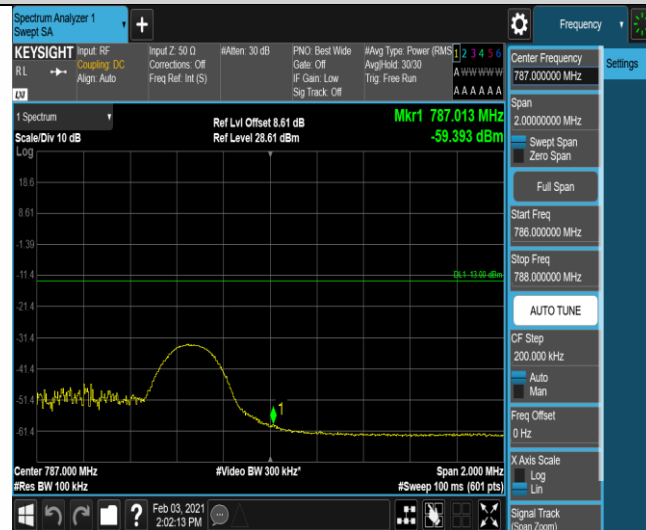
Band13-5MHz-64QAM-23205-1RB#24



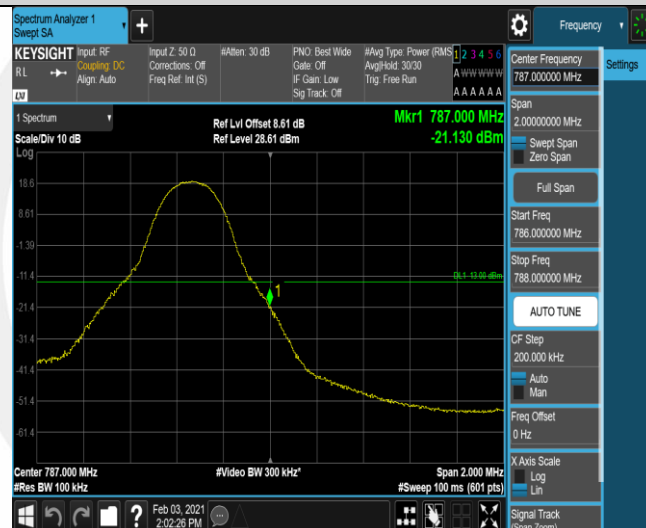
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Band13-5MHz-64QAM-23255-1RB#0



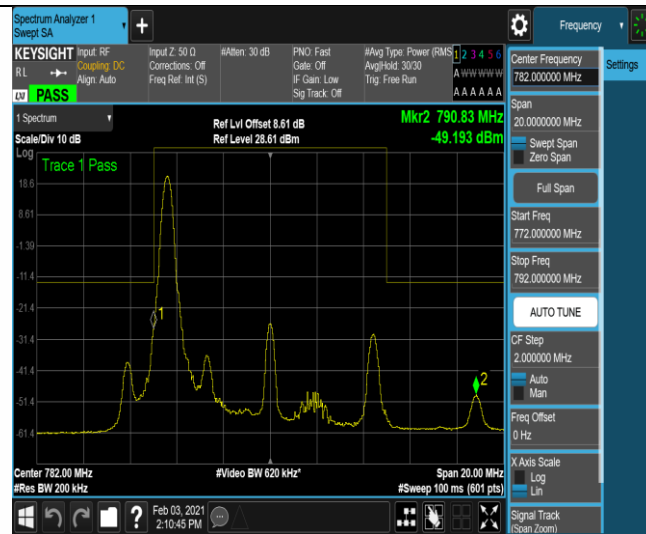
Band13-5MHz-64QAM-23255-1RB#24



Band13-5MHz-64QAM-23255-25RB#0



Band13-10MHz-64QAM-23230-1RB#0



Band13-10MHz-64QAM-23230-1RB#49



Band13-10MHz-64QAM-23230-50RB#0



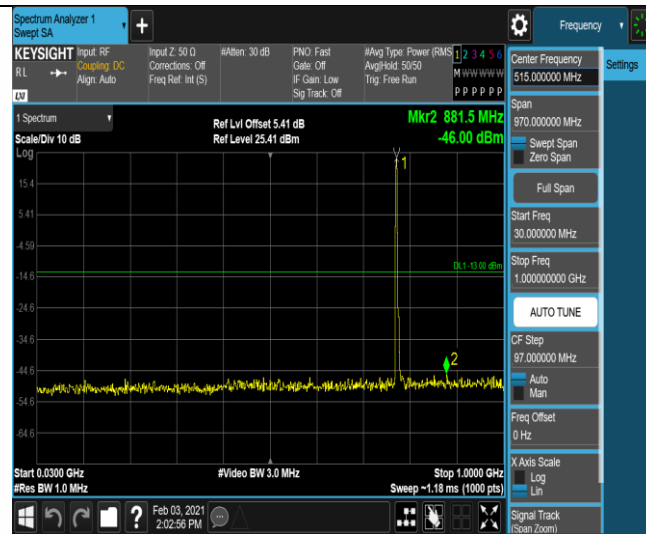
Appendix E: Conducted Spurious Emission

Test Result

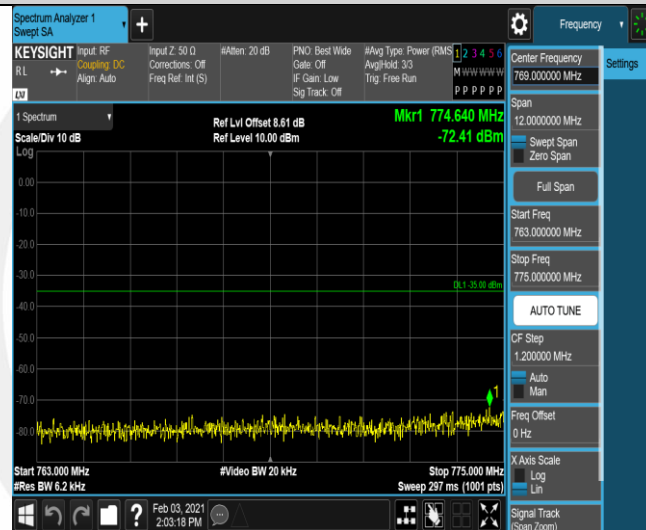
Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band13	5MHz	64QAM	23205	1RB#0	Range1:30~1000MHz	-46	PASS
Band13	5MHz	64QAM	23205	1RB#0	Range3:763~775MHz	-72.41	PASS
Band13	5MHz	64QAM	23205	1RB#0	Range4:793~805MHz	-73.23	PASS
Band13	5MHz	64QAM	23205	1RB#0	Range2:1000~10000MHz	-37.18	PASS
Band13	5MHz	64QAM	23205	1RB#0	Range5:1559~1610MHz	-58.67	PASS
Band13	5MHz	64QAM	23230	1RB#0	Range1:30~1000MHz	-46.04	PASS
Band13	5MHz	64QAM	23230	1RB#0	Range3:763~775MHz	-77.12	PASS
Band13	5MHz	64QAM	23230	1RB#0	Range4:793~805MHz	-75.85	PASS
Band13	5MHz	64QAM	23230	1RB#0	Range2:1000~10000MHz	-36.92	PASS
Band13	5MHz	64QAM	23230	1RB#0	Range5:1559~1610MHz	-61.55	PASS
Band13	5MHz	64QAM	23255	1RB#0	Range1:30~1000MHz	-46.68	PASS
Band13	5MHz	64QAM	23255	1RB#0	Range3:763~775MHz	-77.1	PASS
Band13	5MHz	64QAM	23255	1RB#0	Range4:793~805MHz	-76.99	PASS
Band13	5MHz	64QAM	23255	1RB#0	Range2:1000~10000MHz	-36.65	PASS
Band13	5MHz	64QAM	23255	1RB#0	Range5:1559~1610MHz	-62.08	PASS
Band13	10MHz	64QAM	23230	1RB#0	Range1:30~1000MHz	-45.93	PASS
Band13	10MHz	64QAM	23230	1RB#0	Range3:763~775MHz	-72.78	PASS
Band13	10MHz	64QAM	23230	1RB#0	Range4:793~805MHz	-69.17	PASS
Band13	10MHz	64QAM	23230	1RB#0	Range2:1000~10000MHz	-37.25	PASS
Band13	10MHz	64QAM	23230	1RB#0	Range5:1559~1610MHz	-57.45	PASS

Test Graphs

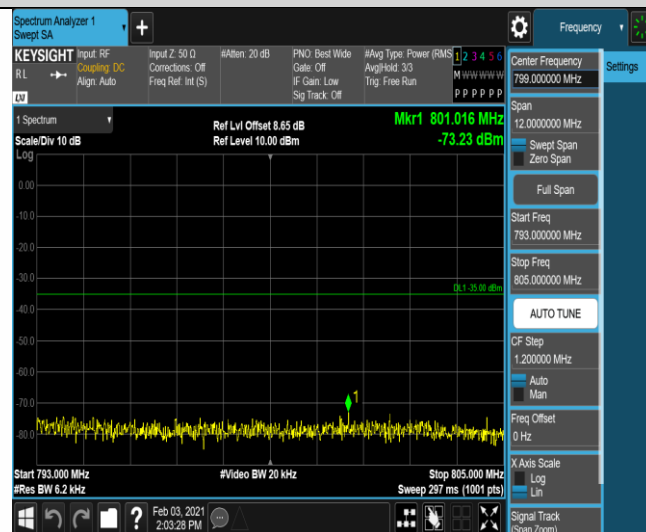
Band13-5MHz-64QAM-23205-1RB#0-Range1:30~1000MHz



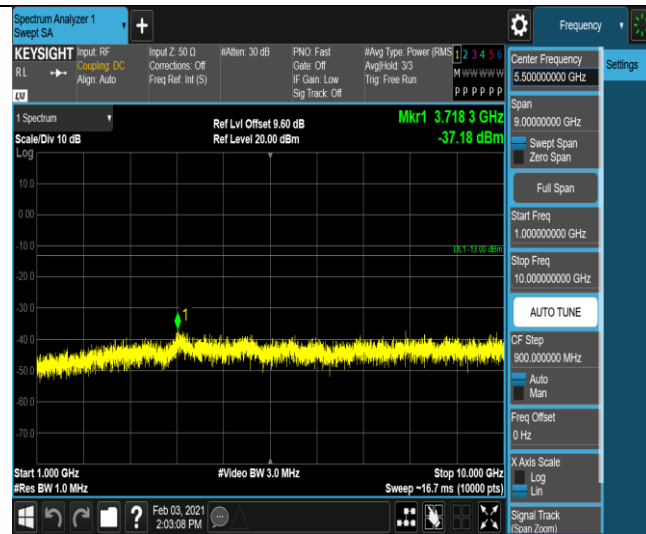
Band13-5MHz-64QAM-23205-1RB#0-Range3:763~775MHz



Band13-5MHz-64QAM-23205-1RB#0-Range4:793~805MHz



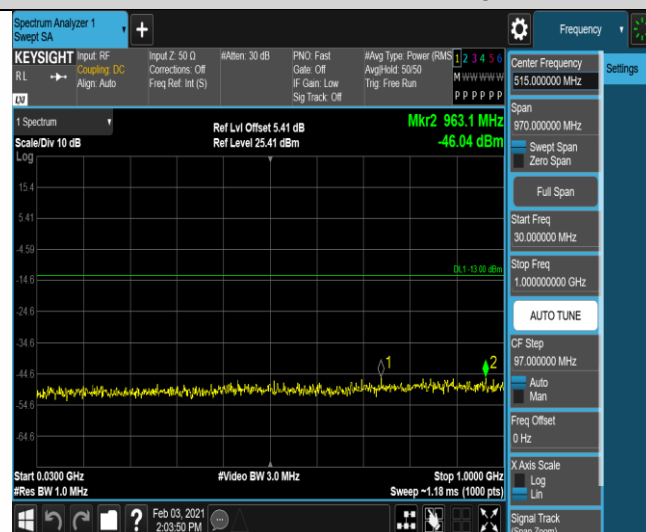
Band13-5MHz-64QAM-23205-1RB#0-Range2:1000~10000MHz



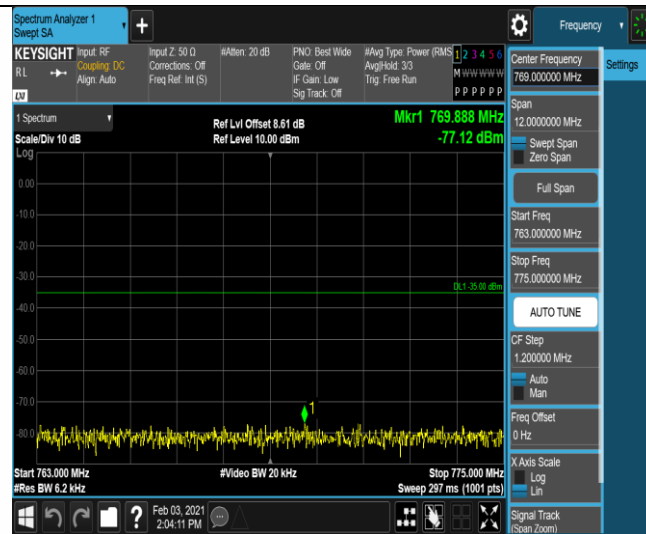
Band13-5MHz-64QAM-23205-1RB#0-Range5:1559~1610MHz



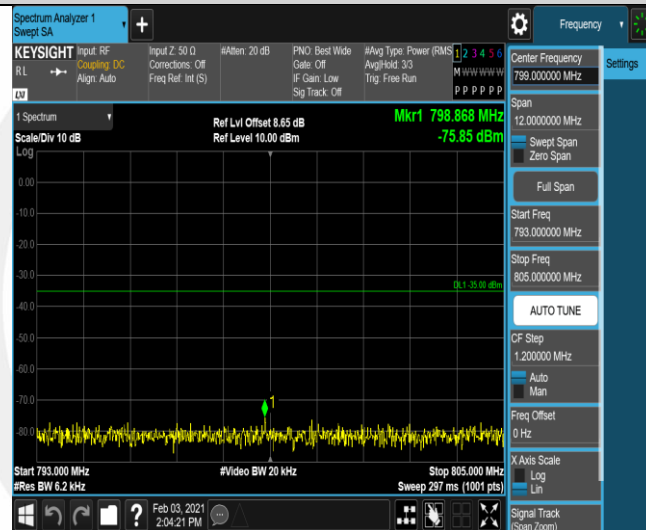
Band13-5MHz-64QAM-23230-1RB#0-Range1:30~1000MHz



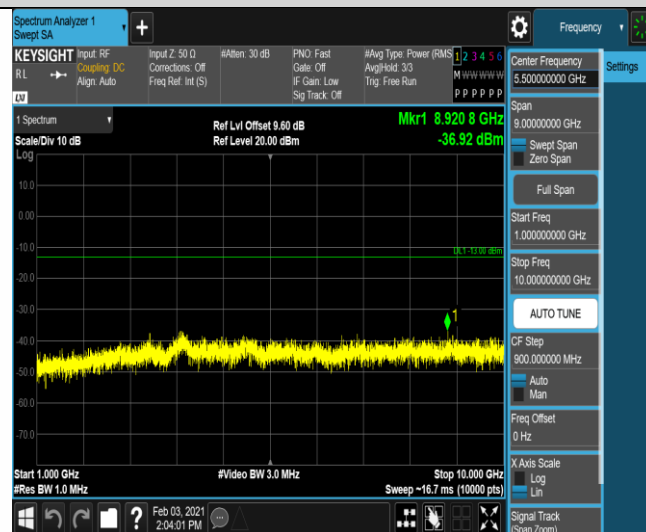
Band13-5MHz-64QAM-23230-1RB#0-Range3:763~775MHz



Band13-5MHz-64QAM-23230-1RB#0-Range4:793~805MHz



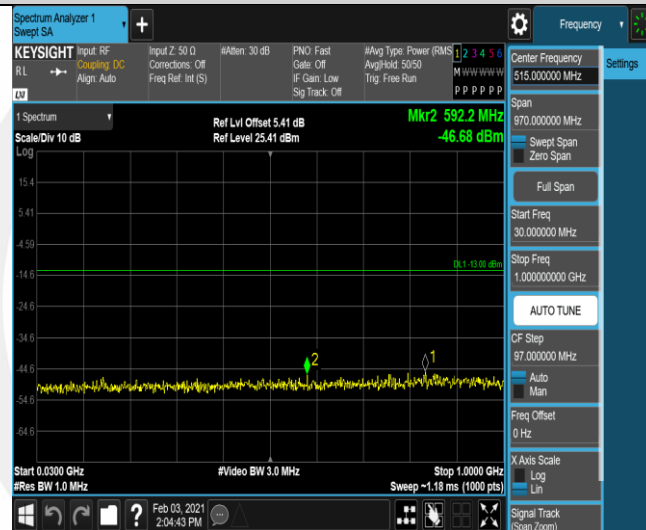
Band13-5MHz-64QAM-23230-1RB#0-Range2:1000~10000MHz



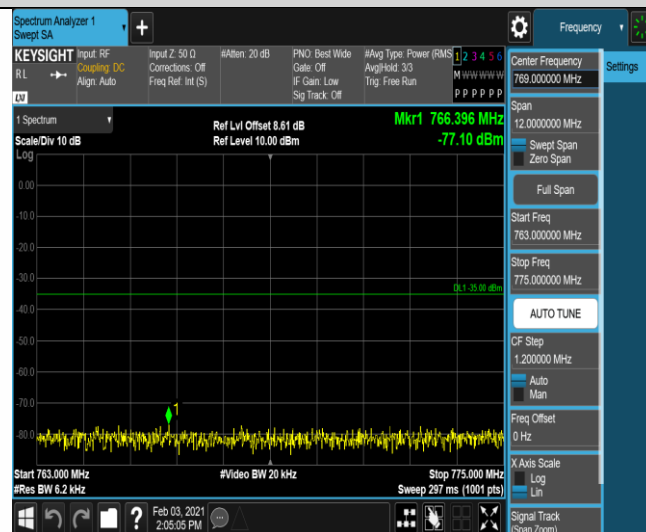
Band13-5MHz-64QAM-23230-1RB#0-Range5:1559~1610MHz



Band13-5MHz-64QAM-23255-1RB#0-Range1:30~1000MHz



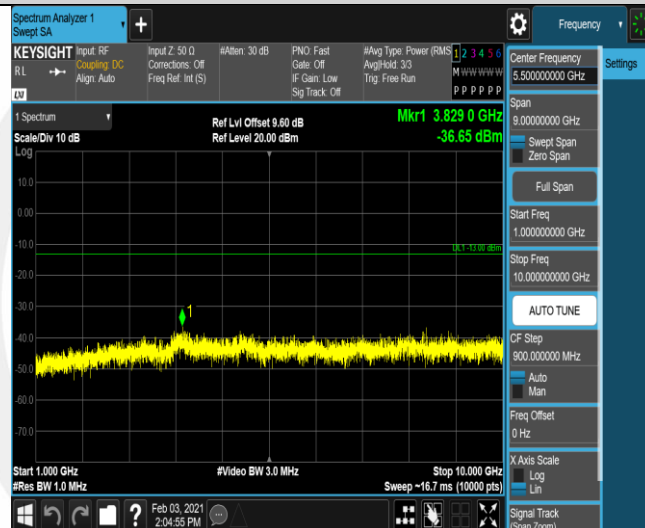
Band13-5MHz-64QAM-23255-1RB#0-Range3:763~775MHz



Band13-5MHz-64QAM-23255-1RB#0-Range4:793~805MHz



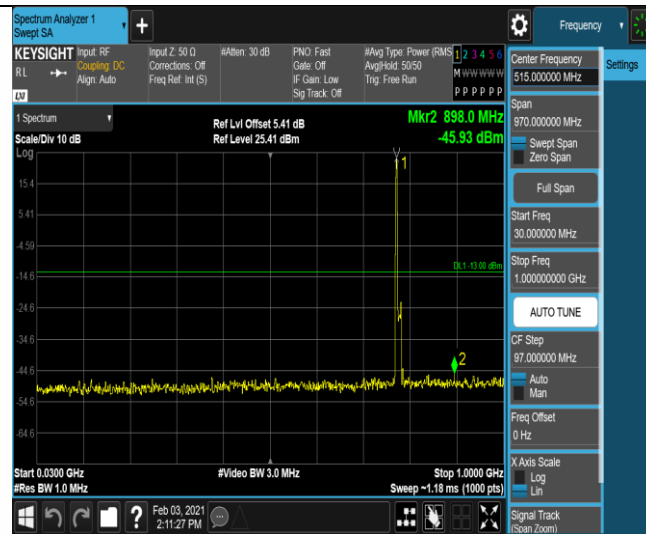
Band13-5MHz-64QAM-23255-1RB#0-Range2:1000~10000MHz



Band13-5MHz-64QAM-23255-1RB#0-Range5:1559~1610MHz



Band13-10MHz-64QAM-23230-1RB#0-Range1:30~1000MHz



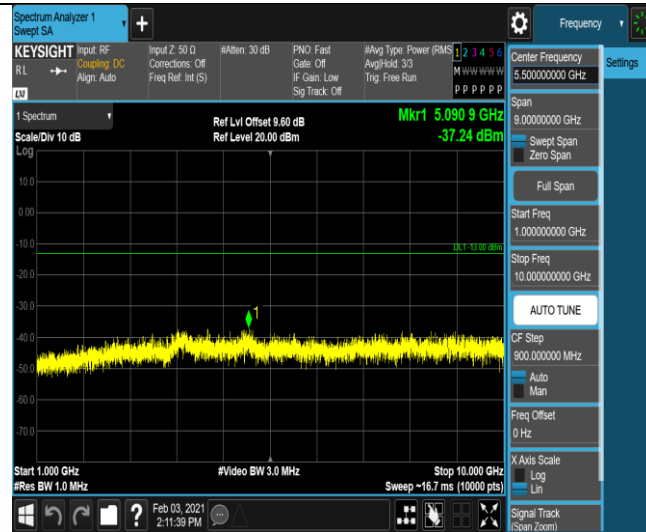
Band13-10MHz-64QAM-23230-1RB#0-Range3:763~775MHz



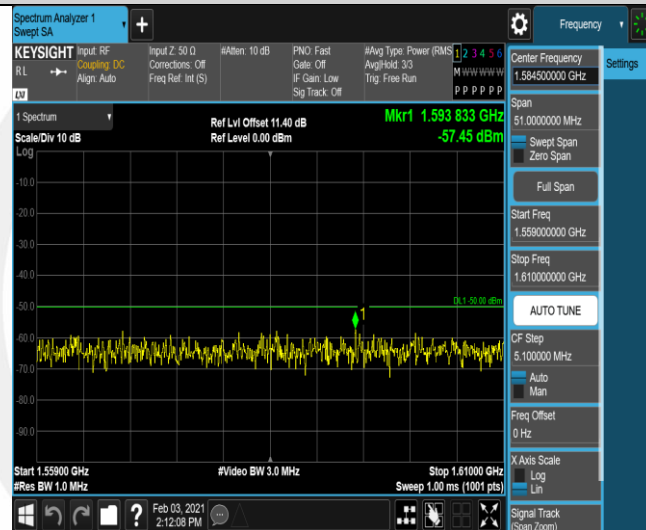
Band13-10MHz-64QAM-23230-1RB#0-Range4:793~805MHz



Band13-10MHz-64QAM-23230-1RB#0-Range2:1000~10000MHz



Band13-10MHz-64QAM-23230-1RB#0-Range5:1559~1610MHz



Appendix F: Frequency Stability

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band1 3	5MHz	64QAM	23205	25RB#0	VL	NT	-3.60	-0.004618	±2.5	PASS
Band1 3	5MHz	64QAM	23205	25RB#0	VN	NT	-5.64	-0.007235	±2.5	PASS
Band1 3	5MHz	64QAM	23205	25RB#0	VH	NT	-2.33	-0.002989	±2.5	PASS
Band1 3	5MHz	64QAM	23230	25RB#0	VL	NT	-5.95	-0.007609	±2.5	PASS
Band1 3	5MHz	64QAM	23230	25RB#0	VN	NT	-8.75	-0.011189	±2.5	PASS
Band1 3	5MHz	64QAM	23230	25RB#0	VH	NT	-10.60	-0.013555	±2.5	PASS
Band1 3	5MHz	64QAM	23255	25RB#0	VL	NT	9.58	0.012212	±2.5	PASS
Band1 3	5MHz	64QAM	23255	25RB#0	VN	NT	10.66	0.013588	±2.5	PASS
Band1 3	5MHz	64QAM	23255	25RB#0	VH	NT	9.37	0.011944	±2.5	PASS
Band1 3	10MHz	64QAM	23230	50RB#0	VL	NT	-11.72	-0.014987	±2.5	PASS
Band1 3	10MHz	64QAM	23230	50RB#0	VN	NT	-9.96	-0.012737	±2.5	PASS
Band1 3	10MHz	64QAM	23230	50RB#0	VH	NT	-10.43	-0.013338	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band1 3	5MHz	64QAM	23205	25RB#0	NV	-30	-6.57	-0.008428	±2.5	PASS
Band1	5MHz	64QAM	23205	25RB#0	NV	-20	-3.28	-0.004208	±2.5	PASS

3										
Band1 3	5MHz	64QAM	23205	25RB#0	NV	-10	-7.55	-0.009686	±2.5	PASS
Band1 3	5MHz	64QAM	23205	25RB#0	NV	0	-2.88	-0.003695	±2.5	PASS
Band1 3	5MHz	64QAM	23205	25RB#0	NV	10	2.83	0.003631	±2.5	PASS
Band1 3	5MHz	64QAM	23205	25RB#0	NV	20	-6.72	-0.008621	±2.5	PASS
Band1 3	5MHz	64QAM	23205	25RB#0	NV	30	-5.85	-0.007505	±2.5	PASS
Band1 3	5MHz	64QAM	23205	25RB#0	NV	40	-7.17	-0.009198	±2.5	PASS
Band1 3	5MHz	64QAM	23205	25RB#0	NV	50	3.60	0.004618	±2.5	PASS
Band1 3	5MHz	64QAM	23230	25RB#0	NV	-30	-9.63	-0.012315	±2.5	PASS
Band1 3	5MHz	64QAM	23230	25RB#0	NV	-20	-9.88	-0.012634	±2.5	PASS
Band1 3	5MHz	64QAM	23230	25RB#0	NV	-10	-5.58	-0.007136	±2.5	PASS
Band1 3	5MHz	64QAM	23230	25RB#0	NV	0	-10.86	-0.013887	±2.5	PASS
Band1 3	5MHz	64QAM	23230	25RB#0	NV	10	-6.98	-0.008926	±2.5	PASS
Band1 3	5MHz	64QAM	23230	25RB#0	NV	20	-3.81	-0.004872	±2.5	PASS
Band1 3	5MHz	64QAM	23230	25RB#0	NV	30	-8.05	-0.010294	±2.5	PASS
Band1 3	5MHz	64QAM	23230	25RB#0	NV	40	-7.48	-0.009565	±2.5	PASS
Band1 3	5MHz	64QAM	23230	25RB#0	NV	50	-8.57	-0.010959	±2.5	PASS
Band1 3	5MHz	64QAM	23255	25RB#0	NV	-30	3.76	0.004793	±2.5	PASS
Band1 3	5MHz	64QAM	23255	25RB#0	NV	-20	7.55	0.009624	±2.5	PASS

Band1 3	5MHz	64QAM	23255	25RB#0	NV	-10	4.88	0.006221	±2.5	PASS
Band1 3	5MHz	64QAM	23255	25RB#0	NV	0	7.58	0.009662	±2.5	PASS
Band1 3	5MHz	64QAM	23255	25RB#0	NV	10	8.98	0.011447	±2.5	PASS
Band1 3	5MHz	64QAM	23255	25RB#0	NV	20	7.82	0.009968	±2.5	PASS
Band1 3	5MHz	64QAM	23255	25RB#0	NV	30	5.72	0.007291	±2.5	PASS
Band1 3	5MHz	64QAM	23255	25RB#0	NV	40	7.94	0.010121	±2.5	PASS
Band1 3	5MHz	64QAM	23255	25RB#0	NV	50	-3.65	-0.004653	±2.5	PASS
Band1 3	10MHz	64QAM	23230	50RB#0	NV	-30	-4.28	-0.005473	±2.5	PASS
Band1 3	10MHz	64QAM	23230	50RB#0	NV	-20	-5.29	-0.006765	±2.5	PASS
Band1 3	10MHz	64QAM	23230	50RB#0	NV	-10	-5.64	-0.007212	±2.5	PASS
Band1 3	10MHz	64QAM	23230	50RB#0	NV	0	-7.80	-0.009974	±2.5	PASS
Band1 3	10MHz	64QAM	23230	50RB#0	NV	10	-5.28	-0.006752	±2.5	PASS
Band1 3	10MHz	64QAM	23230	50RB#0	NV	20	-10.70	-0.013683	±2.5	PASS
Band1 3	10MHz	64QAM	23230	50RB#0	NV	30	-7.02	-0.008977	±2.5	PASS
Band1 3	10MHz	64QAM	23230	50RB#0	NV	40	-12.50	-0.015985	±2.5	PASS
Band1 3	10MHz	64QAM	23230	50RB#0	NV	50	-6.01	-0.007685	±2.5	PASS