

Appendix E: Conducted Spurious Emission

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	Range1:30~1000MHz	-49.73	PASS
Band13	5MHz	QPSK	23205	1RB#0	Range3:763~775MHz	-50.14	PASS
Band13	5MHz	QPSK	23205	1RB#0	Range4:793~805MHz	-58.25	PASS
Band13	5MHz	QPSK	23205	1RB#0	Range2:1000~10000MHz	-22.38	PASS
Band13	5MHz	QPSK	23205	1RB#0	Range5:1559~1610MHz	-53.72	PASS
Band13	5MHz	QPSK	23230	1RB#0	Range1:30~1000MHz	-51.62	PASS
Band13	5MHz	QPSK	23230	1RB#0	Range3:763~775MHz	-52.57	PASS
Band13	5MHz	QPSK	23230	1RB#0	Range4:793~805MHz	-58.31	PASS
Band13	5MHz	QPSK	23230	1RB#0	Range2:1000~10000MHz	-25.72	PASS
Band13	5MHz	QPSK	23230	1RB#0	Range5:1559~1610MHz	-43.2	PASS
Band13	5MHz	QPSK	23255	1RB#0	Range1:30~1000MHz	-51.11	PASS
Band13	5MHz	QPSK	23255	1RB#0	Range3:763~775MHz	-54.41	PASS
Band13	5MHz	QPSK	23255	1RB#0	Range4:793~805MHz	-58.57	PASS
Band13	5MHz	QPSK	23255	1RB#0	Range2:1000~10000MHz	-21.1	PASS
Band13	5MHz	QPSK	23255	1RB#0	Range5:1559~1610MHz	-41.20	PASS
Band13	5MHz	16QAM	23205	1RB#0	Range1:30~1000MHz	-51.35	PASS
Band13	5MHz	16QAM	23205	1RB#0	Range3:763~775MHz	-50.79	PASS
Band13	5MHz	16QAM	23205	1RB#0	Range4:793~805MHz	-58.17	PASS

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Band13	5MHz	16QAM	23205	1RB#0	Range2:1000~10000MHz	-27.3 9	PASS
Band13	5MHz	16QAM	23205	1RB#0	Range5:1559~1610MHz	-55.4 8	PASS
Band13	5MHz	16QAM	23230	1RB#0	Range1:30~1000MHz	-51.1	PASS
Band13	5MHz	16QAM	23230	1RB#0	Range3:763~775MHz	-55.5 2	PASS
Band13	5MHz	16QAM	23230	1RB#0	Range4:793~805MHz	-58.7 6	PASS
Band13	5MHz	16QAM	23230	1RB#0	Range2:1000~10000MHz	-21.6	PASS
Band13	5MHz	16QAM	23230	1RB#0	Range5:1559~1610MHz	-41.5 7	PASS
Band13	5MHz	16QAM	23255	1RB#0	Range1:30~1000MHz	-51.7 6	PASS
Band13	5MHz	16QAM	23255	1RB#0	Range3:763~775MHz	-55.5 5	PASS
Band13	5MHz	16QAM	23255	1RB#0	Range4:793~805MHz	-58.4 4	PASS
Band13	5MHz	16QAM	23255	1RB#0	Range2:1000~10000MHz	-26.5 6	PASS
Band13	5MHz	16QAM	23255	1RB#0	Range5:1559~1610MHz	-44.3 5	PASS
Band13	10MHz	QPSK	23230	1RB#0	Range1:30~1000MHz	-50.9	PASS
Band13	10MHz	QPSK	23230	1RB#0	Range3:763~775MHz	-49.5 3	PASS
Band13	10MHz	QPSK	23230	1RB#0	Range4:793~805MHz	-55.8 3	PASS
Band13	10MHz	QPSK	23230	1RB#0	Range2:1000~10000MHz	-24.2 1	PASS
Band13	10MHz	QPSK	23230	1RB#0	Range5:1559~1610MHz	-53.9 7	PASS
Band13	10MHz	16QAM	23230	1RB#0	Range1:30~1000MHz	-50.9 7	PASS
Band13	10MHz	16QAM	23230	1RB#0	Range3:763~775MHz	-48.6 9	PASS
Band13	10MHz	16QAM	23230	1RB#0	Range4:793~805MHz	-55.1 9	PASS
Band13	10MHz	16QAM	23230	1RB#0	Range2:1000~10000MHz	-22.2 4	PASS
Band13	10MHz	16QAM	23230	1RB#0	Range5:1559~1610MHz	-53.1 4	PASS

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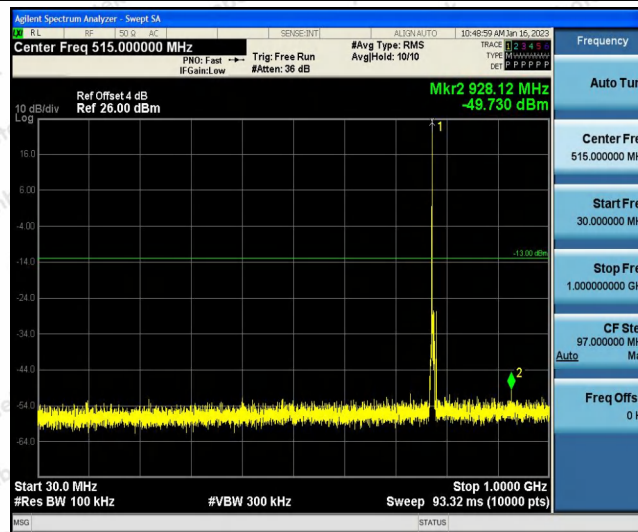


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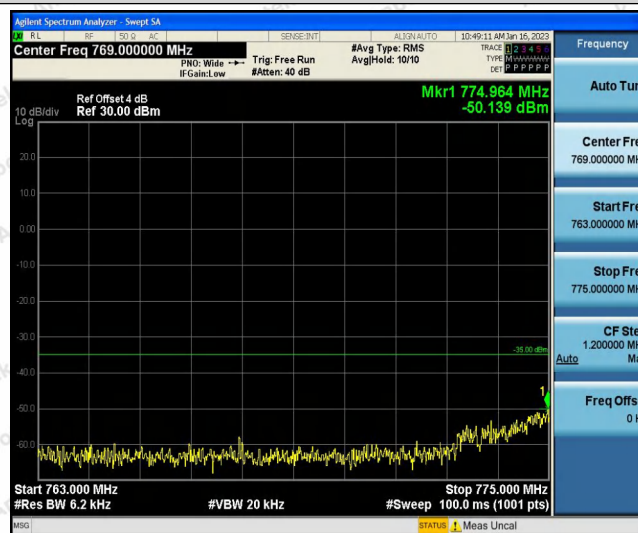


Test Graphs

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



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

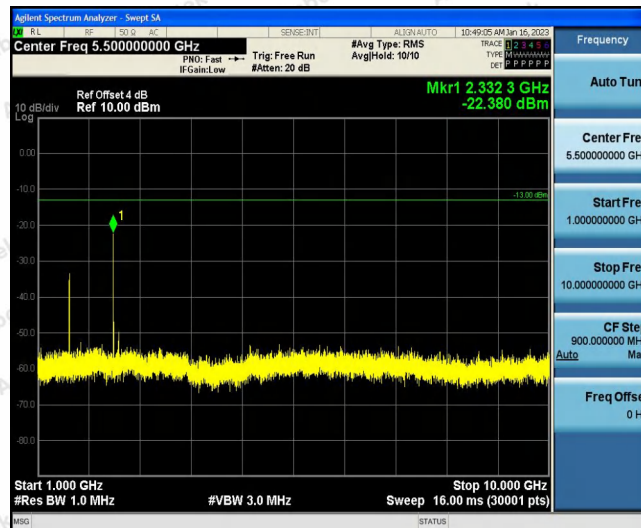


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Band13-5MHz-QPSK-23205-1RB#0-Range2:1000~10000MHz



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



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

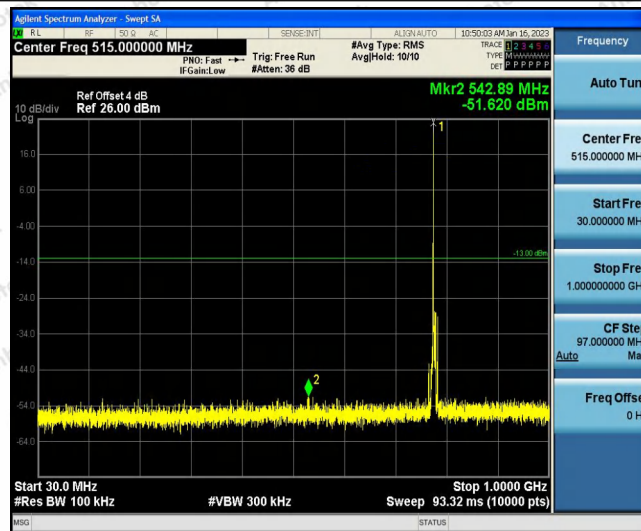
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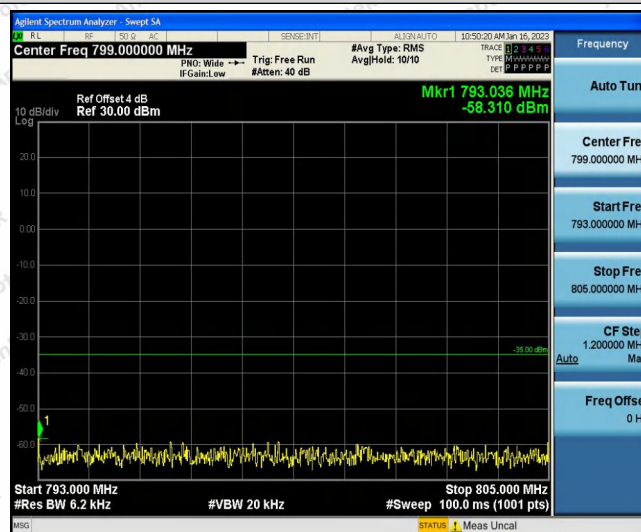




Band13-5MHz-QPSK-23230-1RB#0-Range3:763~775MHz



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

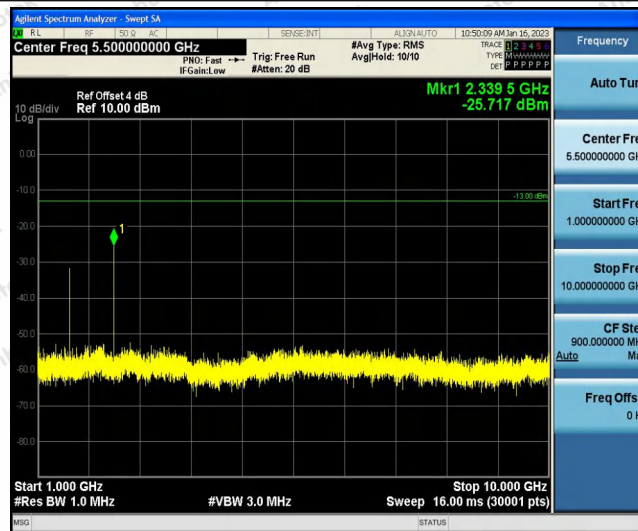
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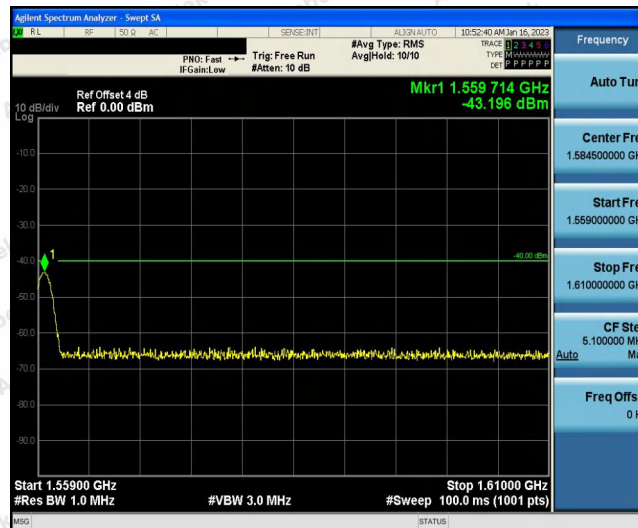


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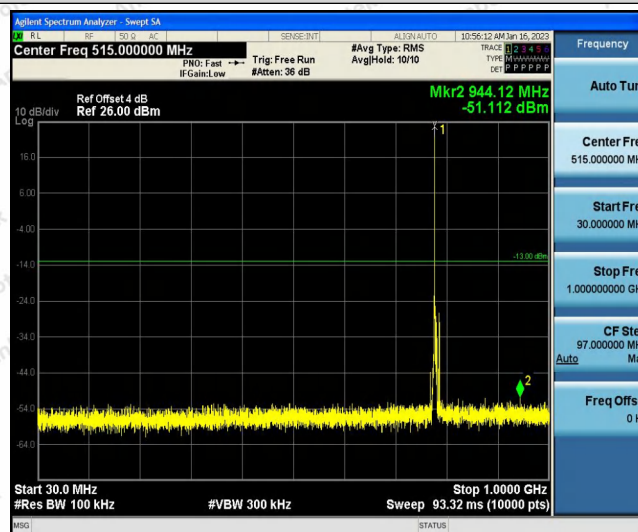




Band13-5MHz-QPSK-23230-1RB#0-Range5:1559~1610MHz



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



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

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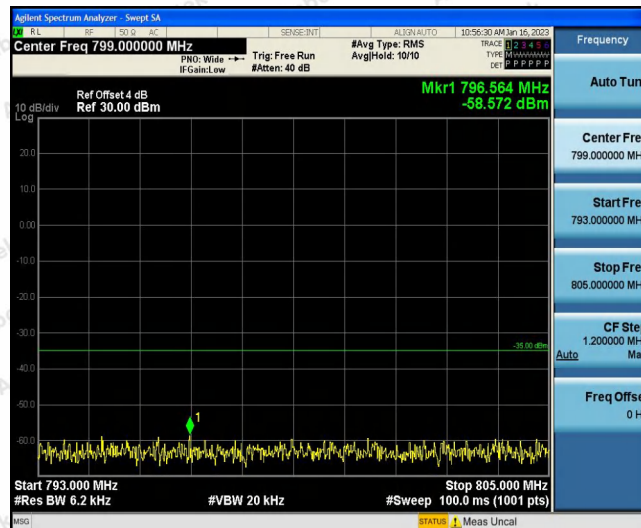


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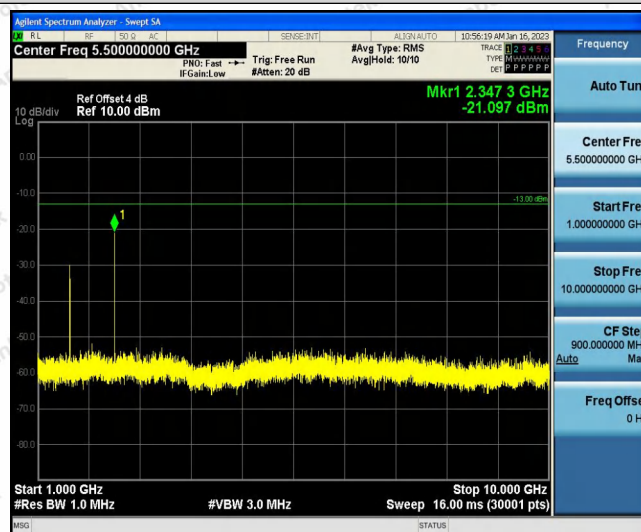




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Band13-5MHz-QPSK-23255-1RB#0-Range5:1559~1610MHz

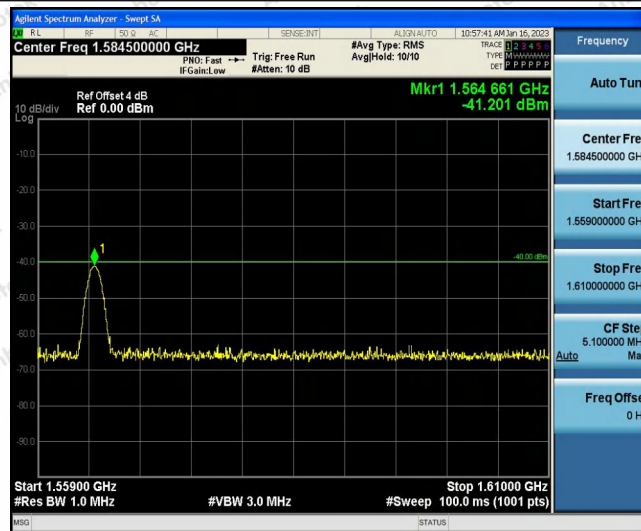
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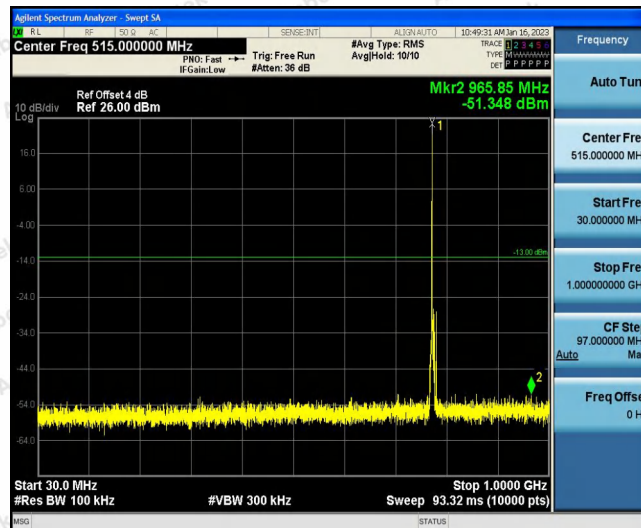


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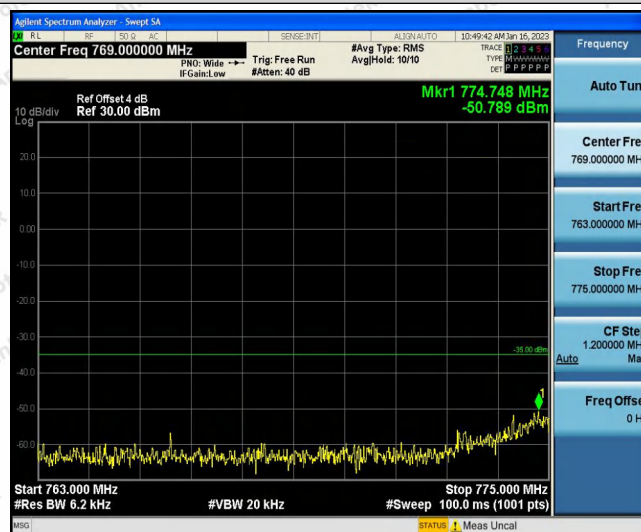




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Band13-5MHz-16QAM-23205-1RB#0-Range3:763~775MHz



Band13-5MHz-16QAM-23205-1RB#0-Range4:793~805MHz

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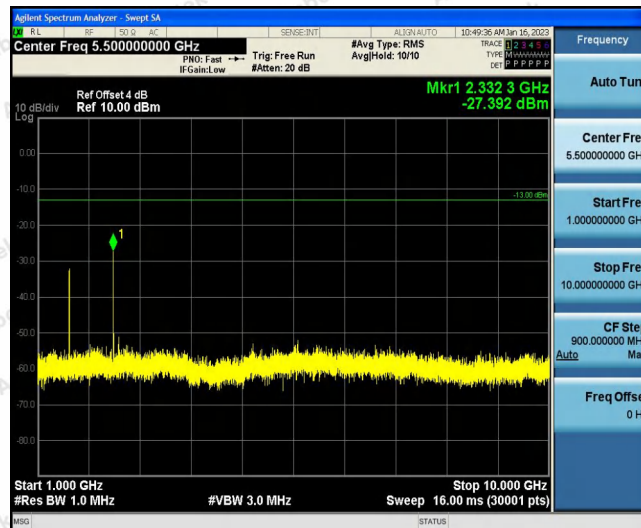


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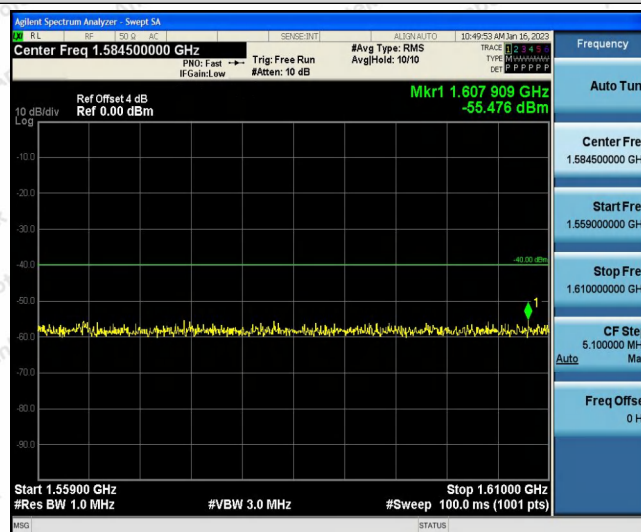




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Band13-5MHz-16QAM-23205-1RB#0-Range5:1559~1610MHz



Band13-5MHz-16QAM-23230-1RB#0-Range1:30~1000MHz

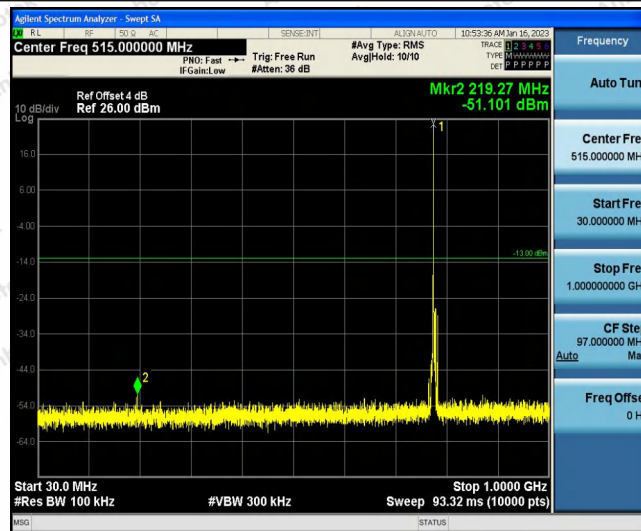
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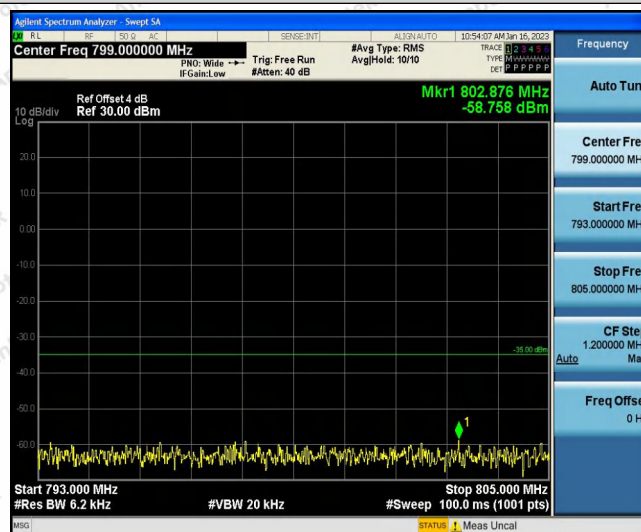




Band13-5MHz-16QAM-23230-1RB#0-Range3:763~775MHz



Band13-5MHz-16QAM-23230-1RB#0-Range4:793~805MHz



Band13-5MHz-16QAM-23230-1RB#0-Range2:1000~10000MHz

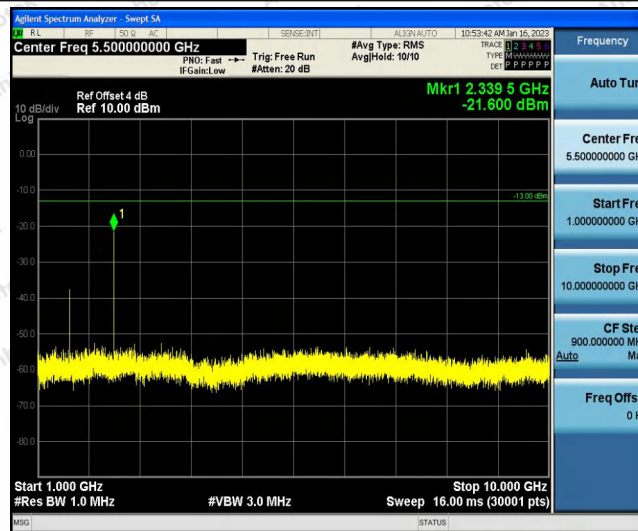
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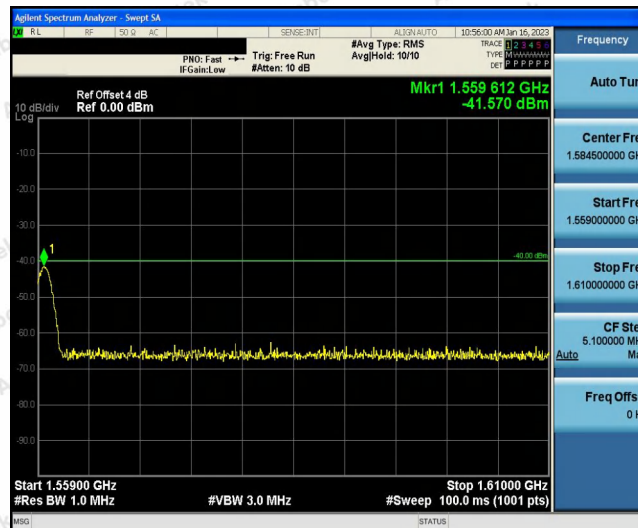


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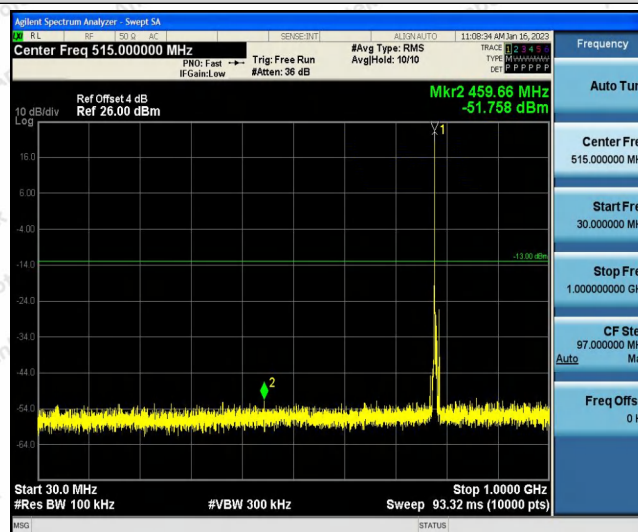




Band13-5MHz-16QAM-23230-1RB#0-Range5:1559~1610MHz



Band13-5MHz-16QAM-23255-1RB#0-Range1:30~1000MHz



Band13-5MHz-16QAM-23255-1RB#0-Range3:763~775MHz

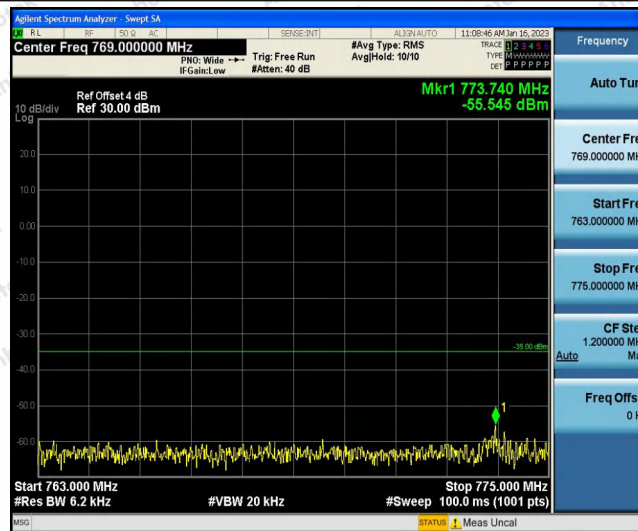
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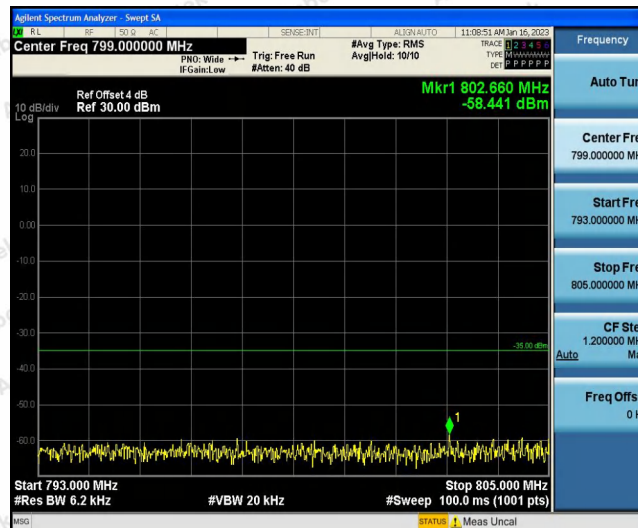


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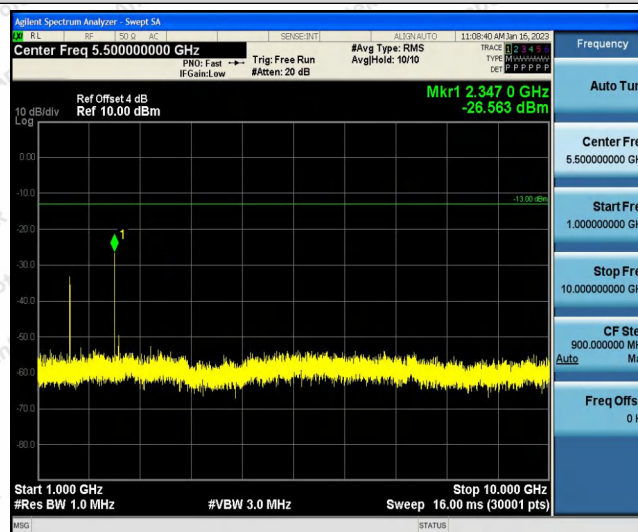




Band13-5MHz-16QAM-23255-1RB#0-Range4:793~805MHz



Band13-5MHz-16QAM-23255-1RB#0-Range2:1000~10000MHz



Band13-5MHz-16QAM-23255-1RB#0-Range5:1559~1610MHz

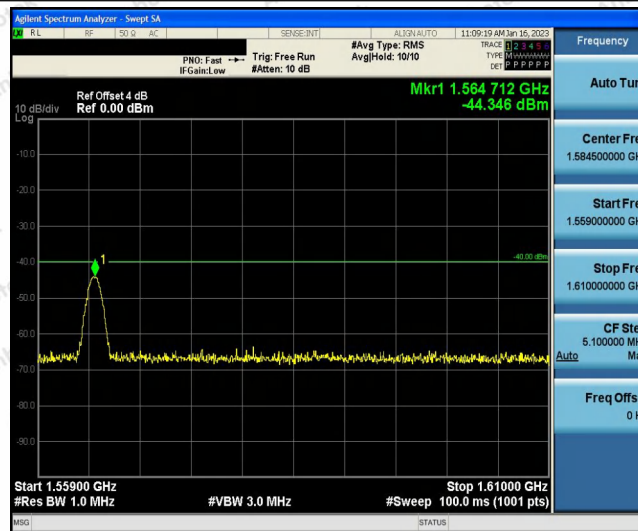
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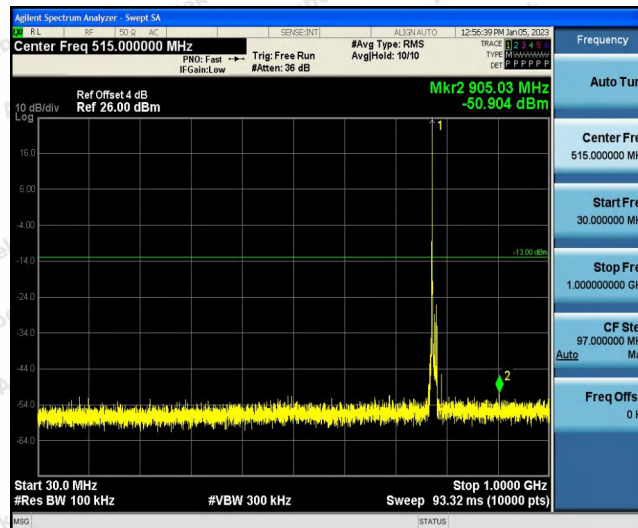


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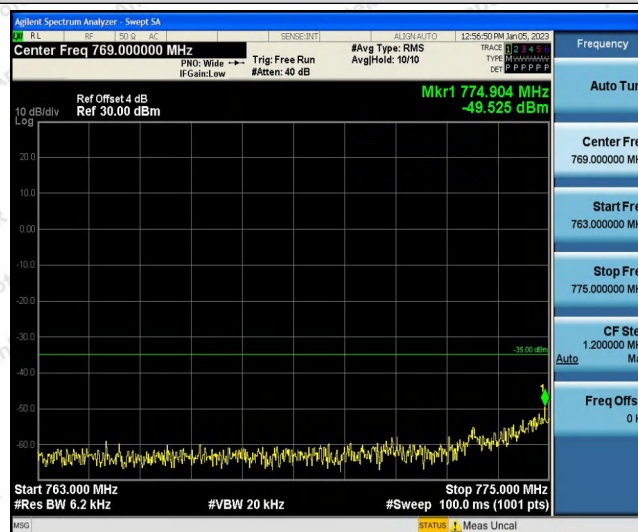




Band13-10MHz-QPSK-23230-1RB#0-Range1:30~1000MHz



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



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

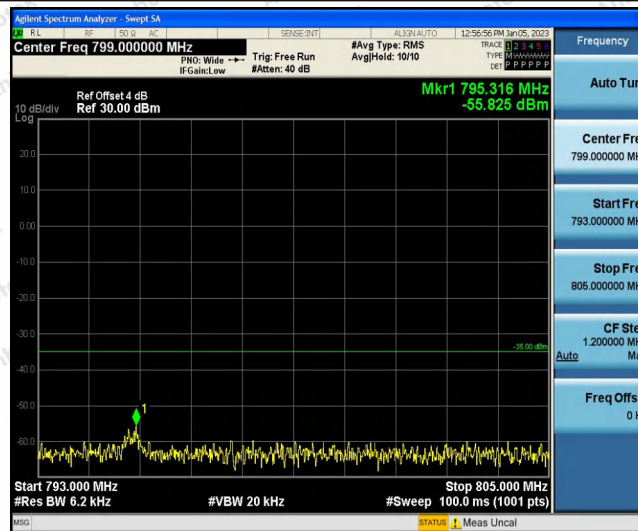
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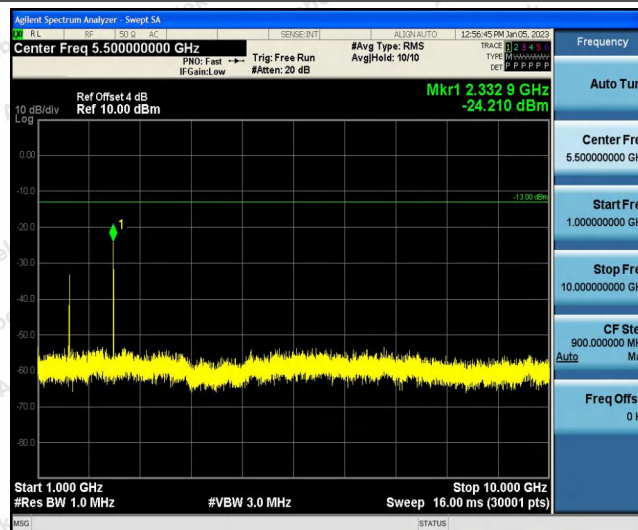


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Band13-10MHz-QPSK-23230-1RB#0-Range2:1000~10000MHz



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



Band13-10MHz-16QAM-23230-1RB#0-Range1:30~1000MHz

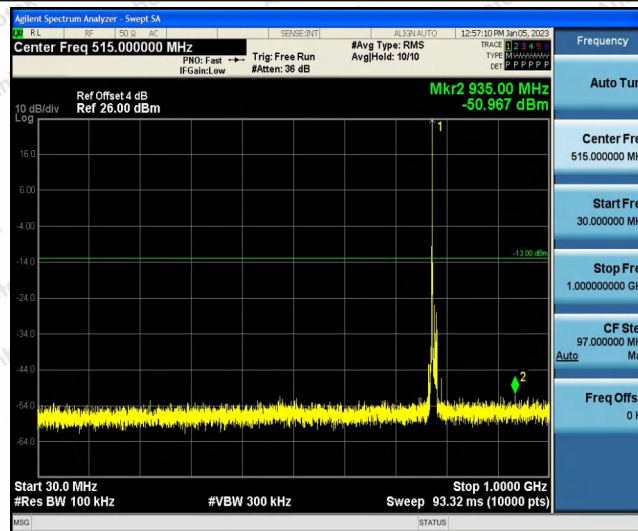
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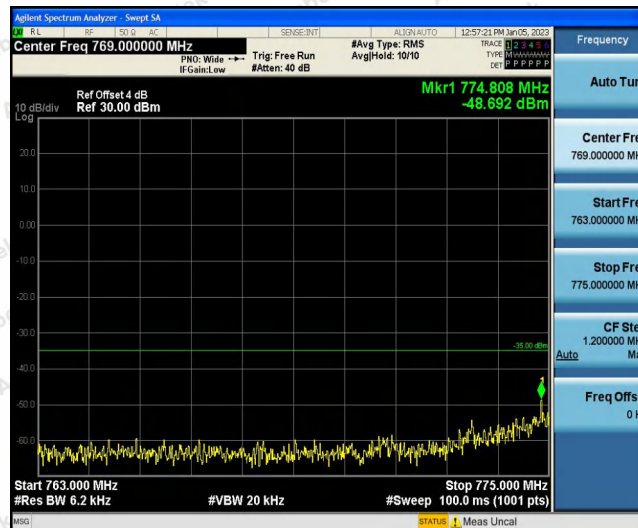


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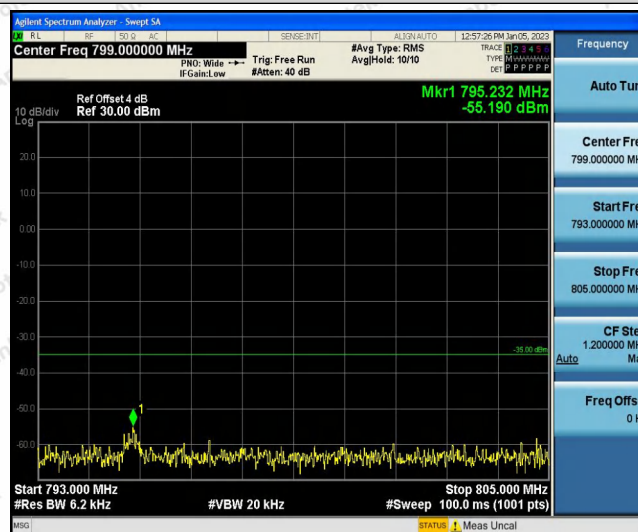




Band13-10MHz-16QAM-23230-1RB#0-Range3:763~775MHz



Band13-10MHz-16QAM-23230-1RB#0-Range4:793~805MHz



Band13-10MHz-16QAM-23230-1RB#0-Range2:1000~10000MHz

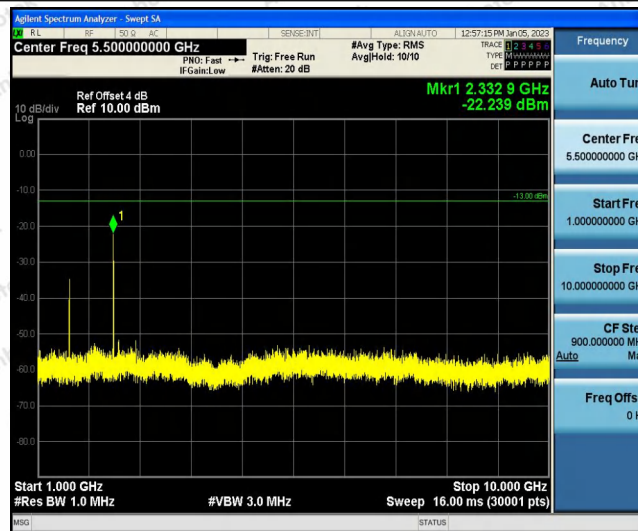
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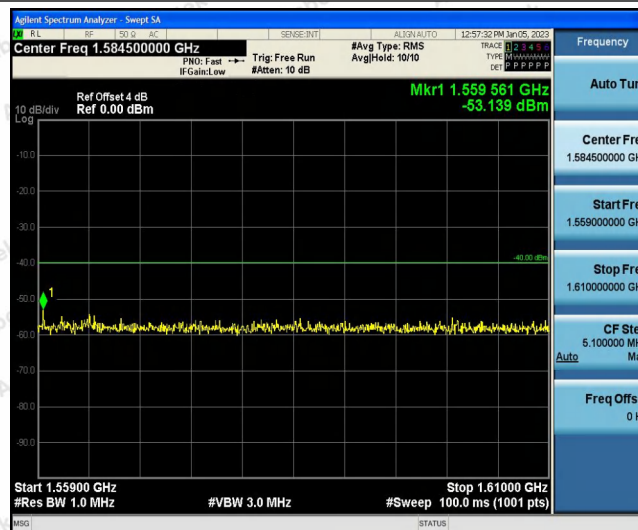


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Band13-10MHz-16QAM-23230-1RB#0-Range5: 1559~1610MHz



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Appendix F: Frequency stability VS Voltage measurement

Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage		Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
					Voltage [Vdc]	Temperature (°C)				
Band1_3	5MHz	QPSK	23205	25RB#0	VL	NT	2.27	0.002912	±2.5	PASS
Band1_3	5MHz	QPSK	23205	25RB#0	VN	NT	3.42	0.004387	±2.5	PASS
Band1_3	5MHz	QPSK	23205	25RB#0	VH	NT	5.29	0.006786	±2.5	PASS
Band1_3	5MHz	QPSK	23230	25RB#0	VL	NT	2.73	0.003491	±2.5	PASS
Band1_3	5MHz	QPSK	23230	25RB#0	VN	NT	-1.70	-0.002174	±2.5	PASS
Band1_3	5MHz	QPSK	23230	25RB#0	VH	NT	2.60	0.003325	±2.5	PASS
Band1_3	5MHz	QPSK	23255	25RB#0	VL	NT	2.47	0.003149	±2.5	PASS
Band1_3	5MHz	QPSK	23255	25RB#0	VN	NT	1.97	0.002511	±2.5	PASS
Band1_3	5MHz	QPSK	23255	25RB#0	VH	NT	4.02	0.005124	±2.5	PASS
Band1_3	5MHz	16QAM	23205	25RB#0	VL	NT	2.15	0.002758	±2.5	PASS
Band1_3	5MHz	16QAM	23205	25RB#0	VN	NT	1.16	0.001488	±2.5	PASS
Band1_3	5MHz	16QAM	23205	25RB#0	VH	NT	-2.52	-0.003233	±2.5	PASS
Band1_3	5MHz	16QAM	23230	25RB#0	VL	NT	2.22	0.002839	±2.5	PASS
Band1_3	5MHz	16QAM	23230	25RB#0	VN	NT	-1.19	-0.001522	±2.5	PASS
Band1_3	5MHz	16QAM	23230	25RB#0	VH	NT	3.29	0.004207	±2.5	PASS
Band1_3	5MHz	16QAM	23255	25RB#0	VL	NT	2.89	0.003684	±2.5	PASS
Band1_3	5MHz	16QAM	23255	25RB#0	VN	NT	-0.94	-0.001198	±2.5	PASS
Band1_3	5MHz	16QAM	23255	25RB#0	VH	NT	4.28	0.005456	±2.5	PASS

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3										
Band1 3	10MHz	QPSK	23230	50RB#0	VL	NT	1.62	0.002072	±2.5	PASS
Band1 3	10MHz	QPSK	23230	50RB#0	VN	NT	2.89	0.003696	±2.5	PASS
Band1 3	10MHz	QPSK	23230	50RB#0	VH	NT	2.29	0.002928	±2.5	PASS
Band1 3	10MHz	16QAM	23230	50RB#0	VL	NT	3.69	0.004719	±2.5	PASS
Band1 3	10MHz	16QAM	23230	50RB#0	VN	NT	3.52	0.004501	±2.5	PASS
Band1 3	10MHz	16QAM	23230	50RB#0	VH	NT	3.71	0.004744	±2.5	PASS

Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community,
 Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
 Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com



Hotline
 400-003-0500
www.anbotek.com.cn



Appendix G: Frequency stability VS Temperature measurement

Test Result

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configuration	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	NV	-30	2.40	0.003079	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	NV	-20	-2.06	-0.002643	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	NV	0	3.23	0.004144	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	NV	10	2.60	0.003335	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	NV	20	2.23	0.002861	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	-30	2.63	0.003363	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	-20	2.80	0.003581	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	0	1.87	0.002391	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	10	-1.54	-0.001969	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	20	3.33	0.004258	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	-30	1.90	0.002422	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	-20	2.15	0.002741	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	0	4.09	0.005214	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	10	2.66	0.003391	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	20	3.49	0.004449	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	-30	-2.39	-0.003066	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	-20	-1.82	-0.002335	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	0	-1.22	-0.001565	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	10	2.83	0.003631	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	20	1.69	0.002168	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	-30	3.71	0.004744	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	-20	3.18	0.004066	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	0	2.12	0.002711	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	10	3.60	0.004604	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	20	3.60	0.004604	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	-30	3.13	0.003990	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	-20	3.26	0.004156	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	0	5.19	0.006616	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	10	2.99	0.003811	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	20	5.72	0.007291	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-30	-2.85	-0.003645	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-20	-1.75	-0.002238	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	0	-1.82	-0.002327	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	10	2.73	0.003491	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	20	2.99	0.003824	±2.5	PASS



Band13	10MHz	16QAM	23230	50RB#0	NV	-30	3.36	0.004297	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	-20	3.15	0.004028	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	0	2.15	0.002749	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	10	3.45	0.004412	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	20	-2.27	-0.002903	±2.5	PASS

---END---

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