

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	-51.92	PASS
Band13	5MHz	QPSK	23205	1RB#0	Range3:763~775MHz	-49.93	PASS
Band13	5MHz	QPSK	23205	1RB#0	Range4:793~805MHz	-58.57	PASS
Band13	5MHz	QPSK	23205	1RB#0	Range2:1000~10000MHz	-29.19	PASS
Band13	5MHz	QPSK	23205	1RB#0	Range5:1559~1610MHz	-54.21	PASS
Band13	5MHz	QPSK	23230	1RB#0	Range1:30~1000MHz	-51.16	PASS
Band13	5MHz	QPSK	23230	1RB#0	Range3:763~775MHz	-56.02	PASS
Band13	5MHz	QPSK	23230	1RB#0	Range4:793~805MHz	-58.23	PASS
Band13	5MHz	QPSK	23230	1RB#0	Range2:1000~10000MHz	-24.34	PASS
Band13	5MHz	QPSK	23230	1RB#0	Range5:1559~1610MHz	-21.42	PASS
Band13	5MHz	QPSK	23255	1RB#0	Range1:30~1000MHz	-50.71	PASS
Band13	5MHz	QPSK	23255	1RB#0	Range3:763~775MHz	-52.64	PASS
Band13	5MHz	QPSK	23255	1RB#0	Range4:793~805MHz	-58.52	PASS
Band13	5MHz	QPSK	23255	1RB#0	Range2:1000~10000MHz	-20.29	PASS
Band13	5MHz	QPSK	23255	1RB#0	Range5:1559~1610MHz	-20.06	PASS
Band13	5MHz	16QAM	23205	1RB#0	Range1:30~1000MHz	-51.13	PASS
Band13	5MHz	16QAM	23205	1RB#0	Range3:763~775MHz	-48.96	PASS
Band13	5MHz	16QAM	23205	1RB#0	Range4:793~805MHz	-59.47	PASS

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Band13	5MHz	16QAM	23205	1RB#0	Range2:1000~10000MHz	-25.0 5	PASS
Band13	5MHz	16QAM	23205	1RB#0	Range5:1559~1610MHz	-53.4 3	PASS
Band13	5MHz	16QAM	23230	1RB#0	Range1:30~1000MHz	-51.2 8	PASS
Band13	5MHz	16QAM	23230	1RB#0	Range3:763~775MHz	-56.2 6	PASS
Band13	5MHz	16QAM	23230	1RB#0	Range4:793~805MHz	-59.1 5	PASS
Band13	5MHz	16QAM	23230	1RB#0	Range2:1000~10000MHz	-24.4 4	PASS
Band13	5MHz	16QAM	23230	1RB#0	Range5:1559~1610MHz	-21.3 8	PASS
Band13	5MHz	16QAM	23255	1RB#0	Range1:30~1000MHz	-51.6 2	PASS
Band13	5MHz	16QAM	23255	1RB#0	Range3:763~775MHz	-55.5 9	PASS
Band13	5MHz	16QAM	23255	1RB#0	Range4:793~805MHz	-57.4 5	PASS
Band13	5MHz	16QAM	23255	1RB#0	Range2:1000~10000MHz	-27.0 2	PASS
Band13	5MHz	16QAM	23255	1RB#0	Range5:1559~1610MHz	-20.8 5	PASS
Band13	10MHz	QPSK	23230	1RB#0	Range1:30~1000MHz	-51.5	PASS
Band13	10MHz	QPSK	23230	1RB#0	Range3:763~775MHz	-49.0 7	PASS
Band13	10MHz	QPSK	23230	1RB#0	Range4:793~805MHz	-56.9 1	PASS
Band13	10MHz	QPSK	23230	1RB#0	Range2:1000~10000MHz	-21.4 1	PASS
Band13	10MHz	QPSK	23230	1RB#0	Range5:1559~1610MHz	-54.2 1	PASS
Band13	10MHz	16QAM	23230	1RB#0	Range1:30~1000MHz	-50.1 9	PASS
Band13	10MHz	16QAM	23230	1RB#0	Range3:763~775MHz	-50.8 7	PASS
Band13	10MHz	16QAM	23230	1RB#0	Range4:793~805MHz	-56.0 4	PASS
Band13	10MHz	16QAM	23230	1RB#0	Range2:1000~10000MHz	-21.7 4	PASS
Band13	10MHz	16QAM	23230	1RB#0	Range5:1559~1610MHz	-54.2 2	PASS

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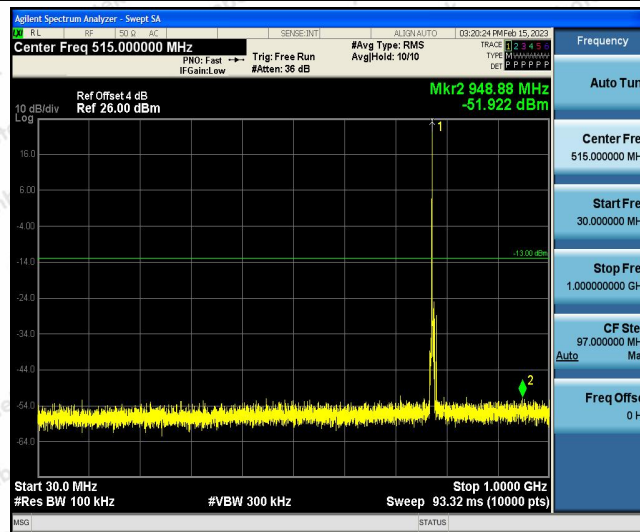


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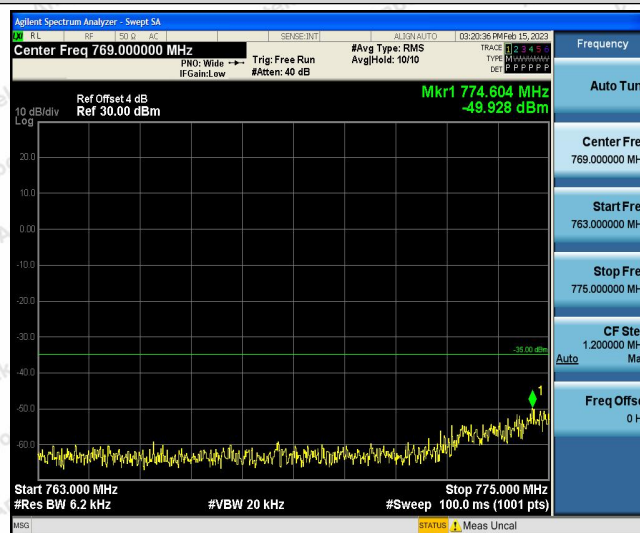


Test Graphs

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



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



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

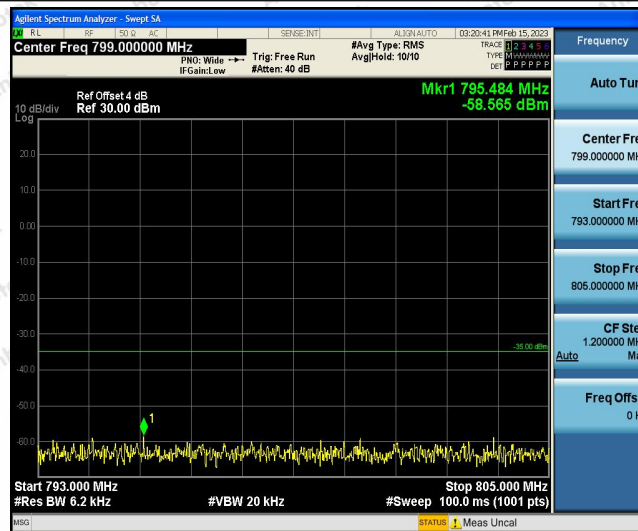
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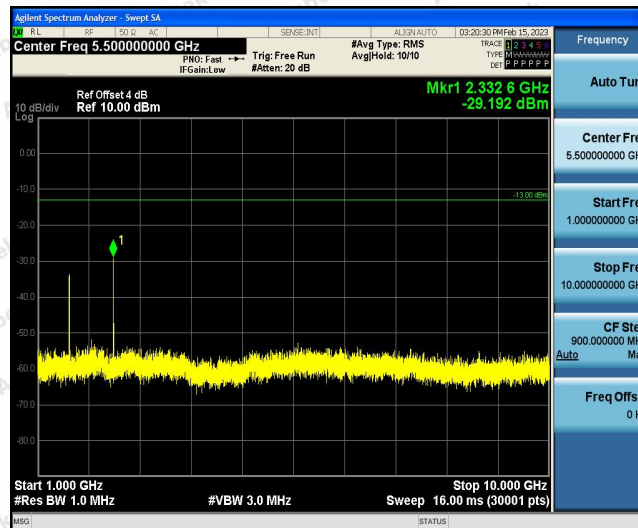


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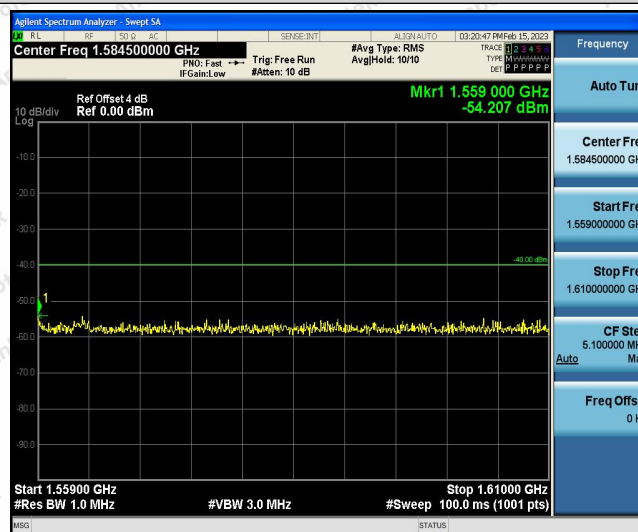




Band13-5MHz-QPSK-23205-1RB#0-Range2:1000~10000MHz



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



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

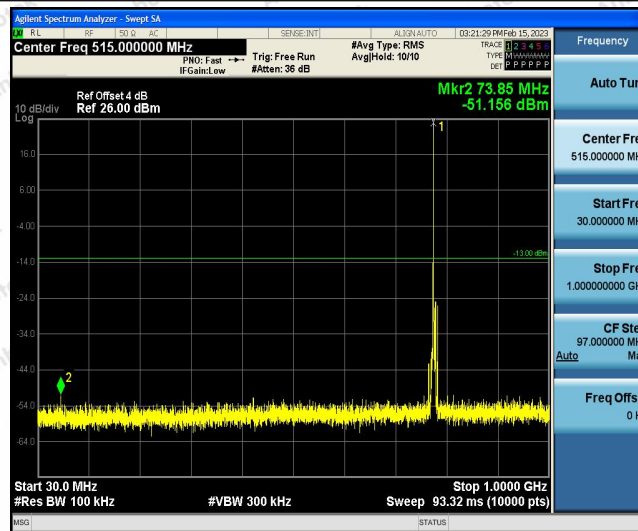
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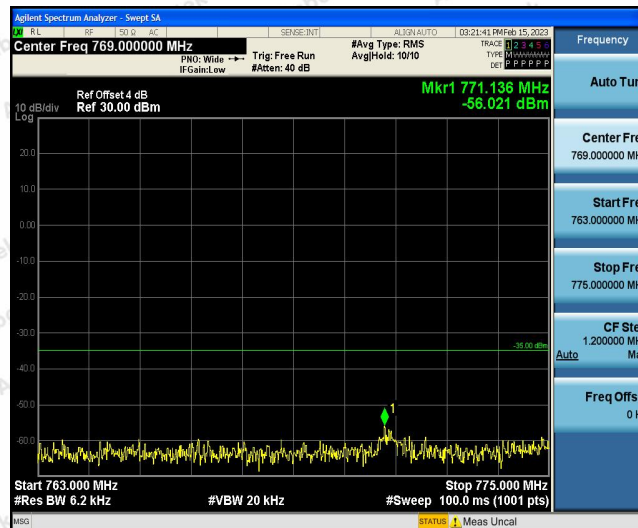


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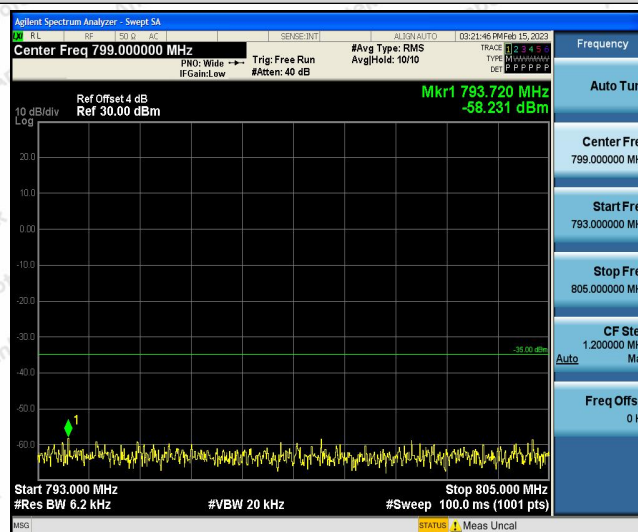




Band13-5MHz-QPSK-23230-1RB#0-Range3:763~775MHz



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



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

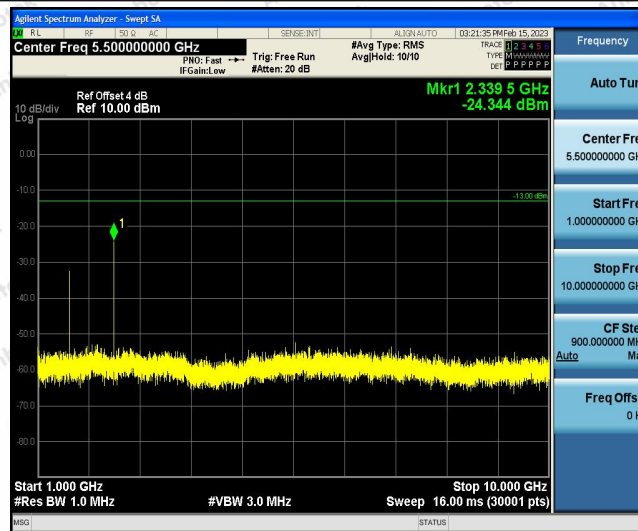
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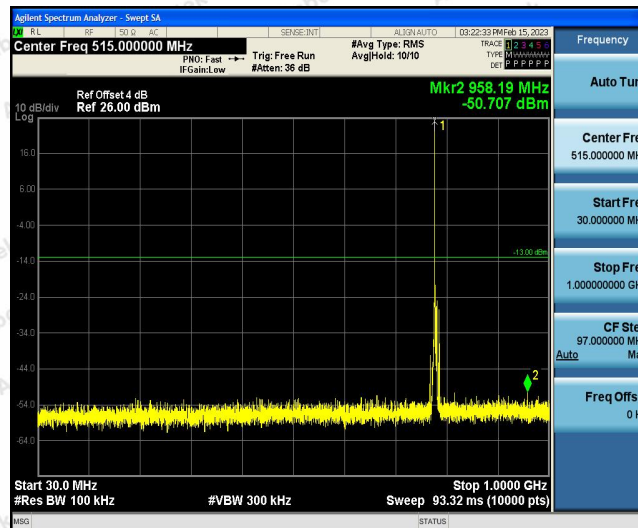


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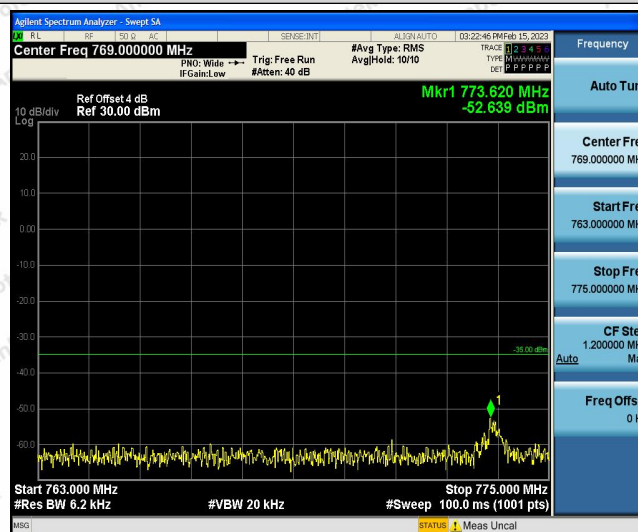




Band13-5MHz-QPSK-23255-1RB#0-Range1:30~1000MHz



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



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

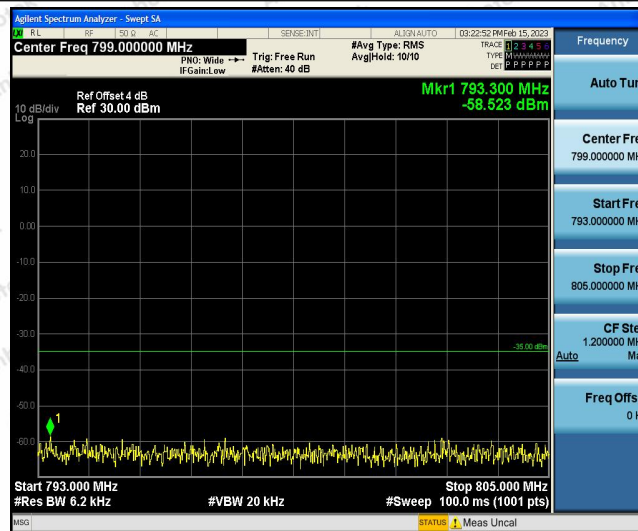
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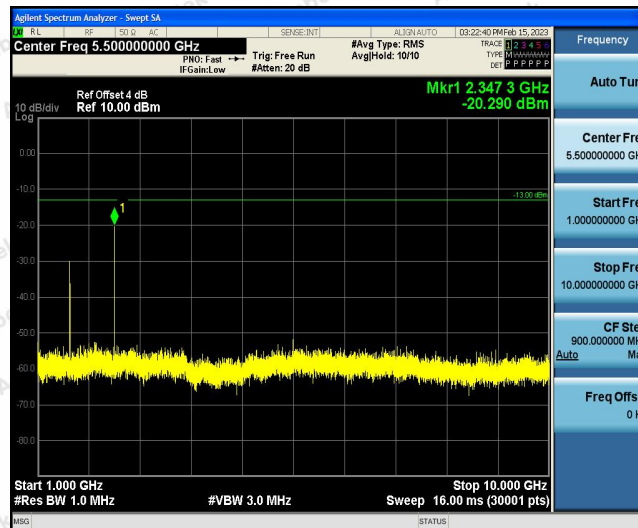


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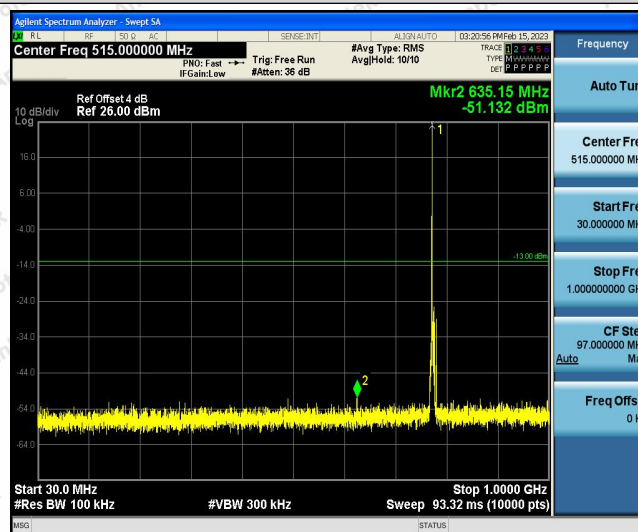




Band13-5MHz-QPSK-23255-1RB#0-Range2:1000~10000MHz



Band13-5MHz-16QAM-23205-1RB#0-Range1:30~1000MHz



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

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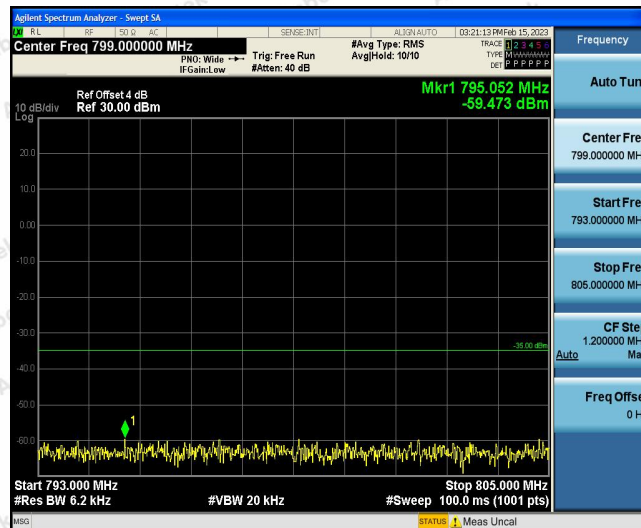


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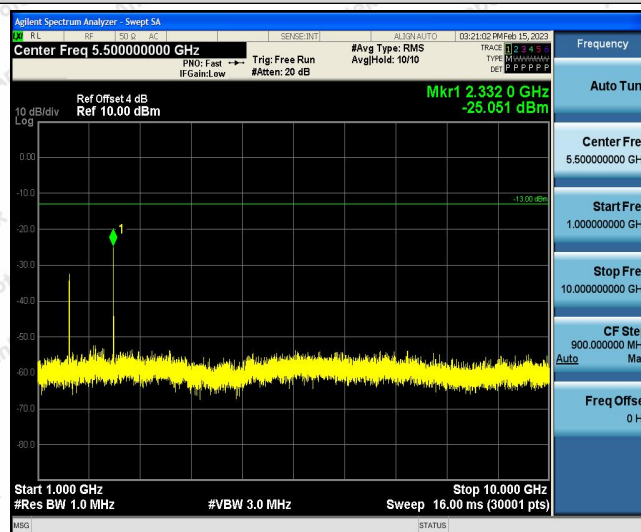




Band13-5MHz-16QAM-23205-1RB#0-Range4:793~805MHz



Band13-5MHz-16QAM-23205-1RB#0-Range2:1000~10000MHz



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

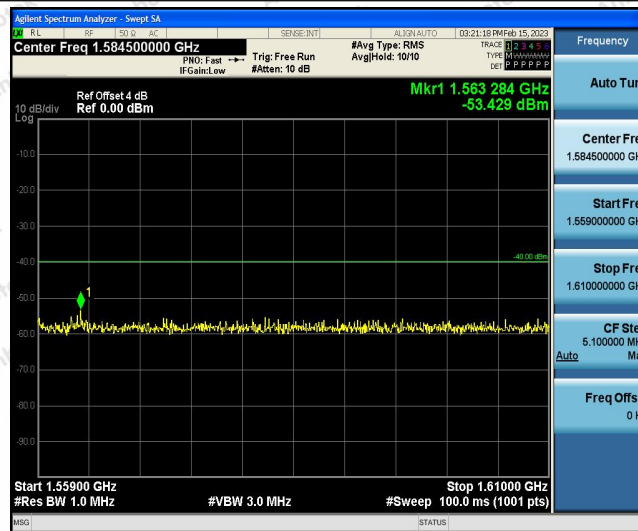
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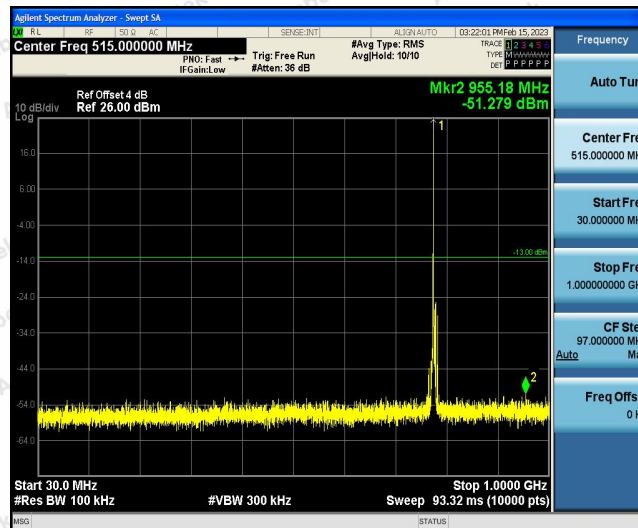


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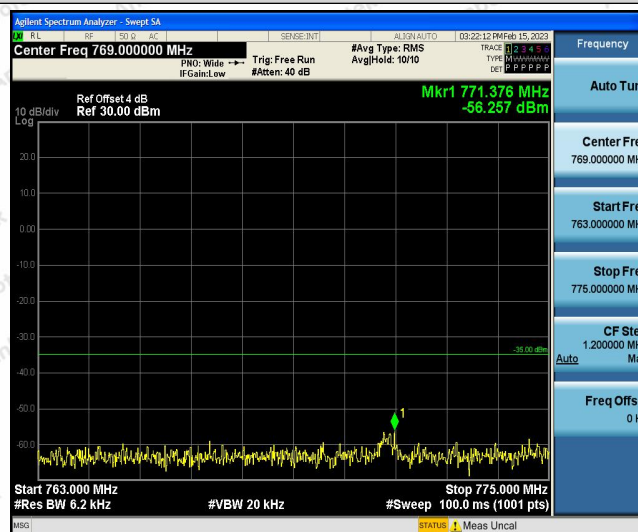




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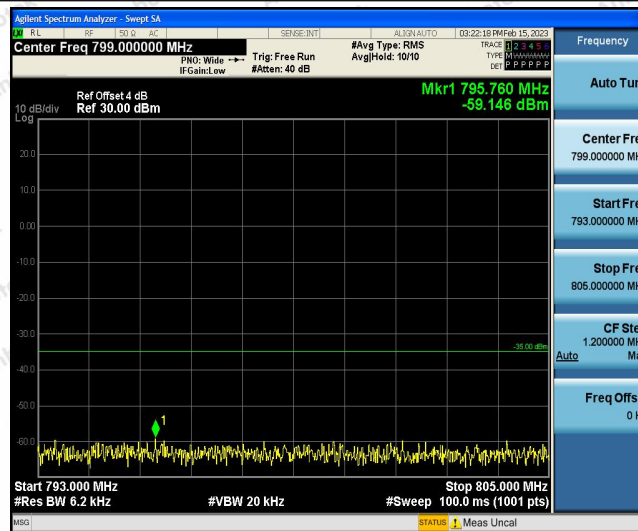


Band13-5MHz-16QAM-23230-1RB#0-Range3:763~775MHz

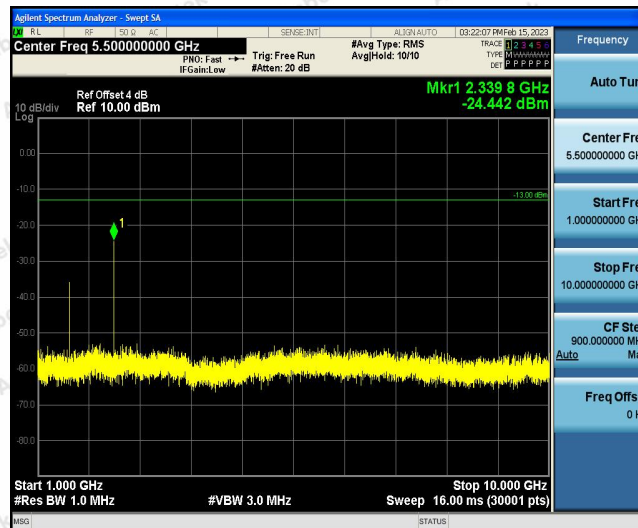


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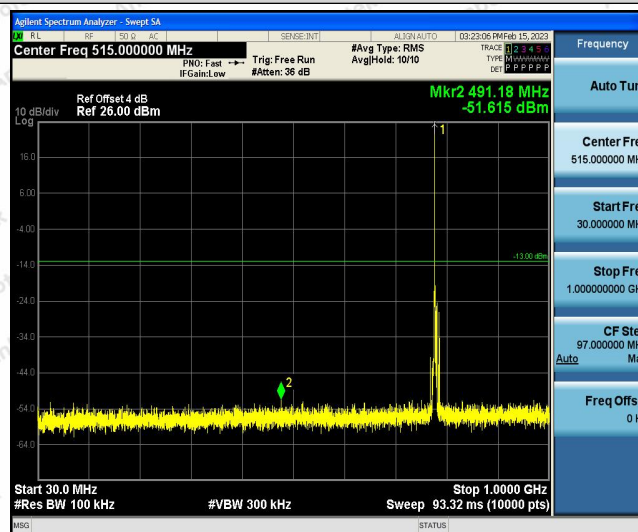




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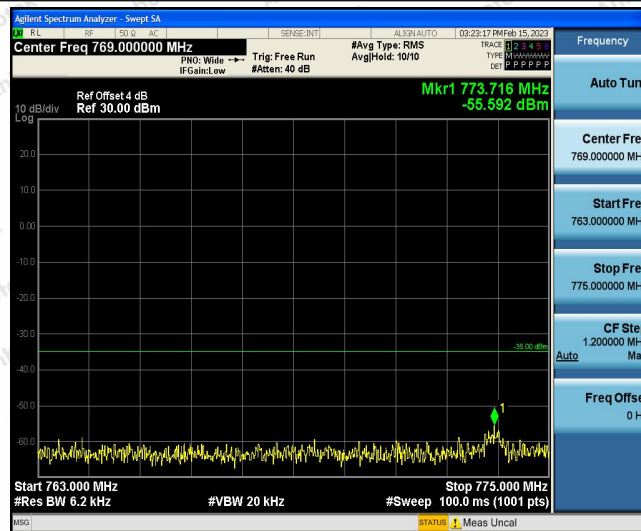
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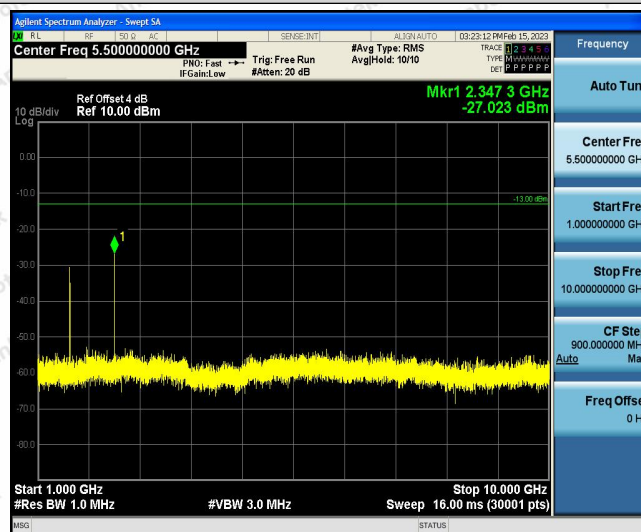




Band13-5MHz-16QAM-23255-1RB#0-Range4:793~805MHz



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



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

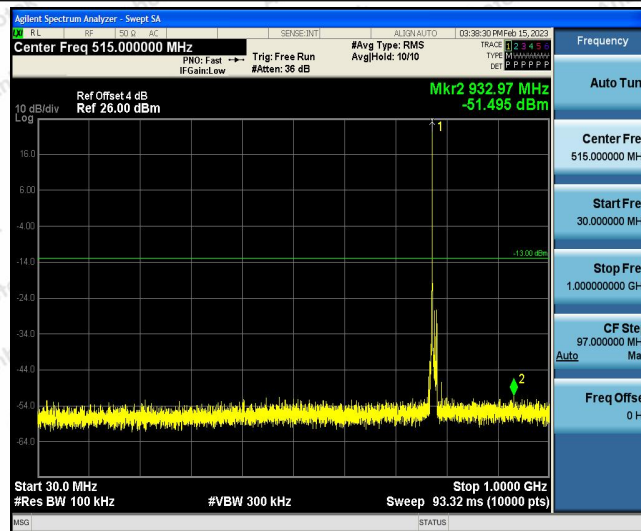
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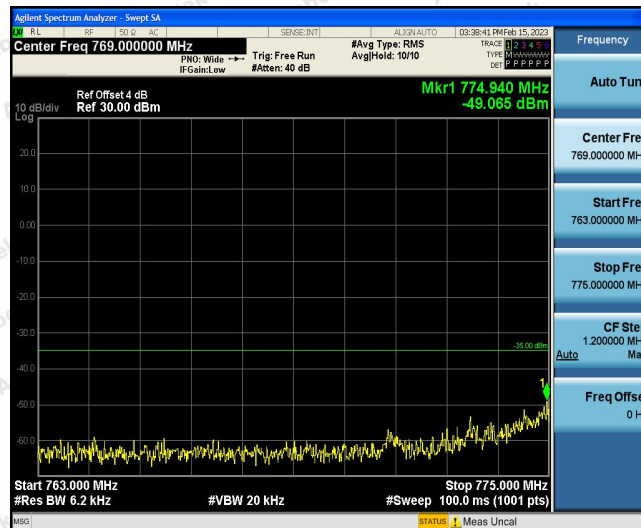


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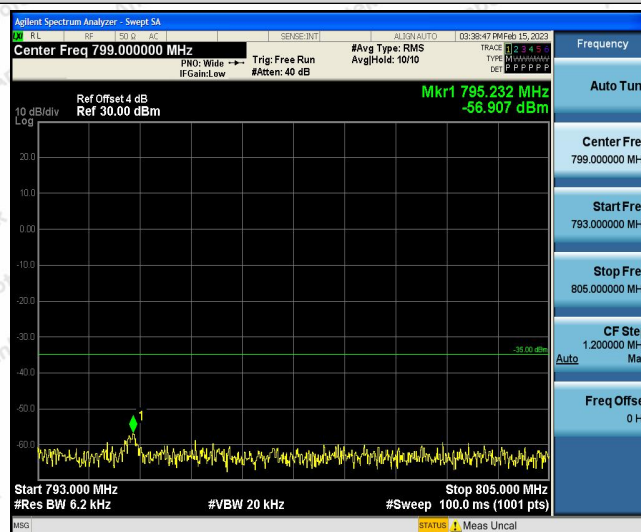




Band13-10MHz-QPSK-23230-1RB#0-Range3:763~775MHz



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

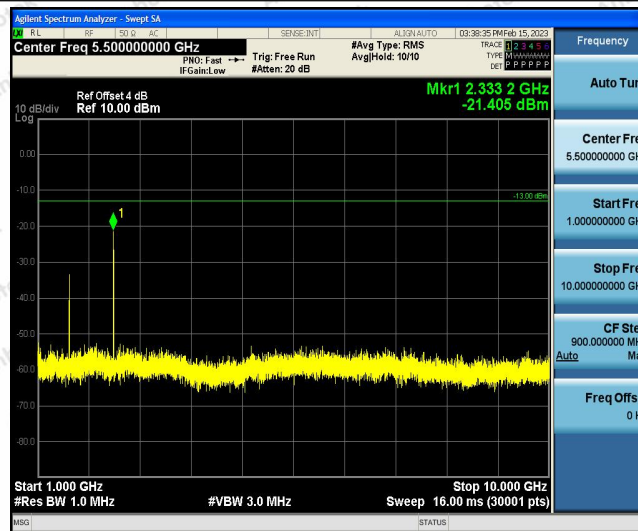
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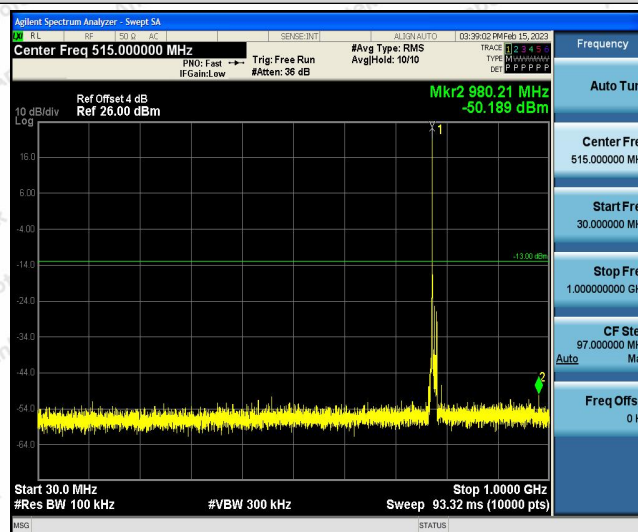




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Band13-10MHz-16QAM-23230-1RB#0-Range1:30~1000MHz



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

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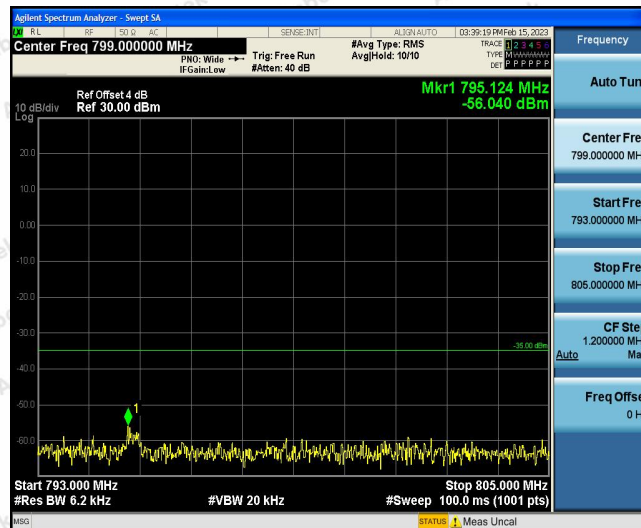


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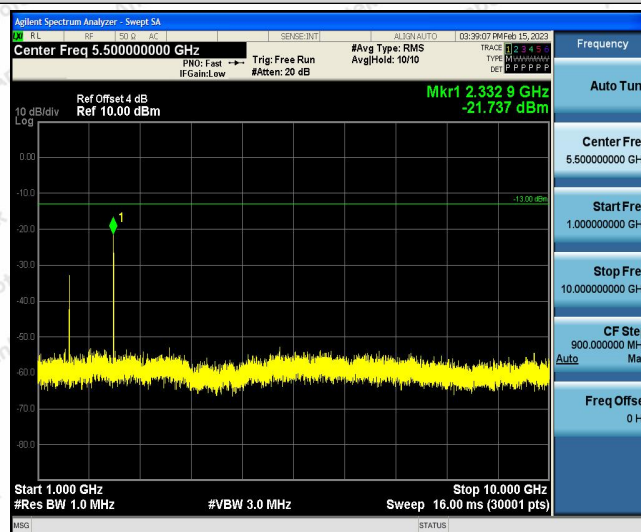




Band13-10MHz-16QAM-23230-1RB#0-Range4:793~805MHz



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



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

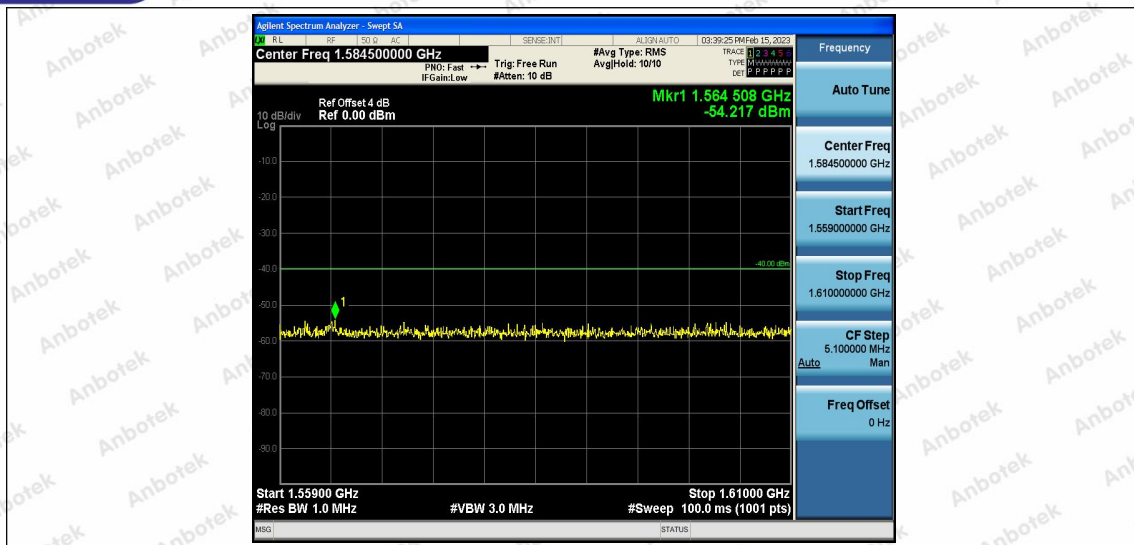
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Appendix F: Frequency stability VS Voltage measurement

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	-2.22	-0.002848	±2.5	PASS
Band1_3	5MHz	QPSK	23205	25RB#0	VN	NT	3.08	0.003951	±2.5	PASS
Band1_3	5MHz	QPSK	23205	25RB#0	VH	NT	3.09	0.003964	±2.5	PASS
Band1_3	5MHz	QPSK	23230	25RB#0	VL	NT	3.25	0.004156	±2.5	PASS
Band1_3	5MHz	QPSK	23230	25RB#0	VN	NT	3.40	0.004348	±2.5	PASS
Band1_3	5MHz	QPSK	23230	25RB#0	VH	NT	2.83	0.003619	±2.5	PASS
Band1_3	5MHz	QPSK	23255	25RB#0	VL	NT	4.18	0.005328	±2.5	PASS
Band1_3	5MHz	QPSK	23255	25RB#0	VN	NT	4.08	0.005201	±2.5	PASS
Band1_3	5MHz	QPSK	23255	25RB#0	VH	NT	2.99	0.003811	±2.5	PASS
Band1_3	5MHz	16QAM	23205	25RB#0	VL	NT	1.75	0.002245	±2.5	PASS
Band1_3	5MHz	16QAM	23205	25RB#0	VN	NT	-3.09	-0.003964	±2.5	PASS
Band1_3	5MHz	16QAM	23205	25RB#0	VH	NT	2.98	0.003823	±2.5	PASS
Band1_3	5MHz	16QAM	23230	25RB#0	VL	NT	3.02	0.003862	±2.5	PASS
Band1_3	5MHz	16QAM	23230	25RB#0	VN	NT	3.45	0.004412	±2.5	PASS
Band1_3	5MHz	16QAM	23230	25RB#0	VH	NT	2.98	0.003811	±2.5	PASS
Band1_3	5MHz	16QAM	23255	25RB#0	VL	NT	5.51	0.007024	±2.5	PASS
Band1_3	5MHz	16QAM	23255	25RB#0	VN	NT	3.86	0.004920	±2.5	PASS
Band1_3	5MHz	16QAM	23255	25RB#0	VH	NT	4.91	0.006259	±2.5	PASS

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3										
Band1 3	10MHz	QPSK	23230	50RB#0	VL	NT	4.03	0.005153	±2.5	PASS
Band1 3	10MHz	QPSK	23230	50RB#0	VN	NT	2.63	0.003363	±2.5	PASS
Band1 3	10MHz	QPSK	23230	50RB#0	VH	NT	4.95	0.006330	±2.5	PASS
Band1 3	10MHz	16QAM	23230	50RB#0	VL	NT	2.57	0.003286	±2.5	PASS
Band1 3	10MHz	16QAM	23230	50RB#0	VN	NT	4.95	0.006330	±2.5	PASS
Band1 3	10MHz	16QAM	23230	50RB#0	VH	NT	3.73	0.004770	±2.5	PASS

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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	-2.29	-0.002938	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	NV	-20	2.26	0.002899	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	NV	0	2.20	0.002822	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	NV	10	-2.65	-0.003400	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	NV	20	-2.92	-0.003746	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	-30	3.79	0.004847	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	-20	2.26	0.002890	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	0	2.96	0.003785	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	10	3.65	0.004668	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	20	3.85	0.004923	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	-30	4.94	0.006297	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	-20	5.54	0.007062	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	0	3.15	0.004015	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	10	4.28	0.005456	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	20	5.45	0.006947	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	-30	2.95	0.003784	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	-20	-1.57	-0.002014	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	0	3.73	0.004785	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	10	2.86	0.003669	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	20	-3.08	-0.003951	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	-30	2.70	0.003453	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	-20	2.35	0.003005	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	0	1.66	0.002123	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	10	3.29	0.004207	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	20	2.06	0.002634	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	-30	5.79	0.007380	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	-20	6.21	0.007916	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	0	5.92	0.007546	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	10	6.05	0.007712	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	20	3.58	0.004563	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-30	3.43	0.004386	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-20	2.90	0.003708	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	0	3.29	0.004207	±2.5	PASS

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	z									
Band13	10MH z	QPSK	23230	50RB#0	NV	10	3.38	0.004322	±2.5	PASS
Band13	10MH z	QPSK	23230	50RB#0	NV	20	2.88	0.003683	±2.5	PASS
Band13	10MH z	16QAM	23230	50RB#0	NV	-30	4.94	0.006317	±2.5	PASS
Band13	10MH z	16QAM	23230	50RB#0	NV	-20	4.05	0.005179	±2.5	PASS
Band13	10MH z	16QAM	23230	50RB#0	NV	0	3.55	0.004540	±2.5	PASS
Band13	10MH z	16QAM	23230	50RB#0	NV	10	3.43	0.004386	±2.5	PASS
Band13	10MH z	16QAM	23230	50RB#0	NV	20	4.03	0.005153	±2.5	PASS

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