

Band13	5MHz	16QAM	23205	1RB#0	Range2:1000~10000MHz	-19.5 7	PASS
Band13	5MHz	16QAM	23205	1RB#0	Range5:1559~1610MHz	-81.3 9	PASS
Band13	5MHz	16QAM	23230	1RB#0	Range1:30~1000MHz	-39.1 6	PASS
Band13	5MHz	16QAM	23230	1RB#0	Range3:763~775MHz	-43.5 9	PASS
Band13	5MHz	16QAM	23230	1RB#0	Range4:793~805MHz	-57.2 4	PASS
Band13	5MHz	16QAM	23230	1RB#0	Range2:1000~10000MHz	-24.8	PASS
Band13	5MHz	16QAM	23230	1RB#0	Range5:1559~1610MHz	-81.7 0	PASS
Band13	5MHz	16QAM	23255	1RB#0	Range1:30~1000MHz	-38.8	PASS
Band13	5MHz	16QAM	23255	1RB#0	Range3:763~775MHz	-55.3 6	PASS
Band13	5MHz	16QAM	23255	1RB#0	Range4:793~805MHz	-56.0 9	PASS
Band13	5MHz	16QAM	23255	1RB#0	Range2:1000~10000MHz	-34.1 7	PASS
Band13	5MHz	16QAM	23255	1RB#0	Range5:1559~1610MHz	-81.2 7	PASS
Band13	10MHz	QPSK	23230	1RB#0	Range1:30~1000MHz	-39.3 4	PASS
Band13	10MHz	QPSK	23230	1RB#0	Range3:763~775MHz	-49.1 6	PASS
Band13	10MHz	QPSK	23230	1RB#0	Range4:793~805MHz	-53.8 2	PASS
Band13	10MHz	QPSK	23230	1RB#0	Range2:1000~10000MHz	-29.9 5	PASS
Band13	10MHz	QPSK	23230	1RB#0	Range5:1559~1610MHz	-80.6 9	PASS
Band13	10MHz	16QAM	23230	1RB#0	Range1:30~1000MHz	-38.0 9	PASS
Band13	10MHz	16QAM	23230	1RB#0	Range3:763~775MHz	-52.2 7	PASS
Band13	10MHz	16QAM	23230	1RB#0	Range4:793~805MHz	-53.5 7	PASS
Band13	10MHz	16QAM	23230	1RB#0	Range2:1000~10000MHz	-21.5 8	PASS
Band13	10MHz	16QAM	23230	1RB#0	Range5:1559~1610MHz	-80.3 4	PASS

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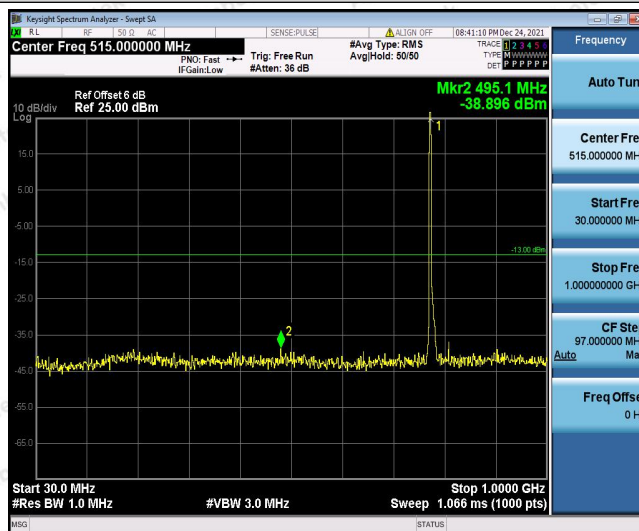
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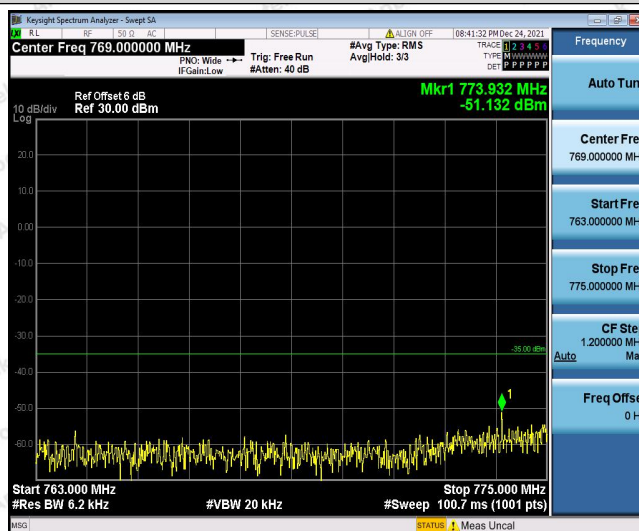
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Test Graphs

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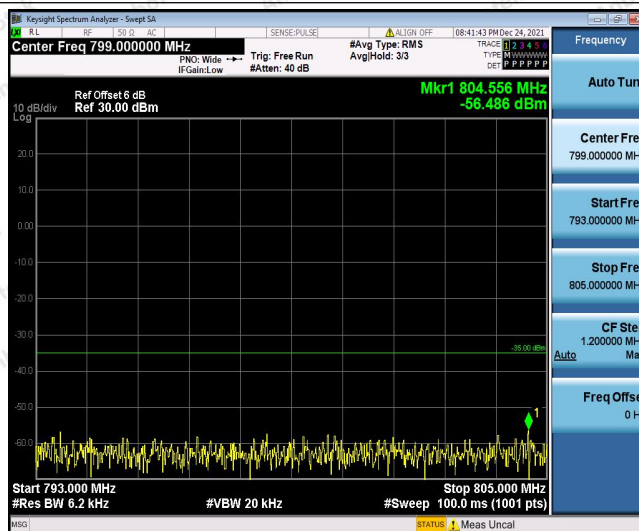
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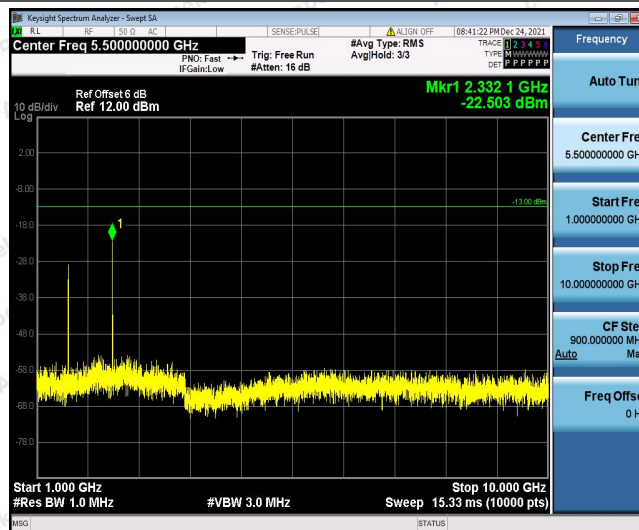
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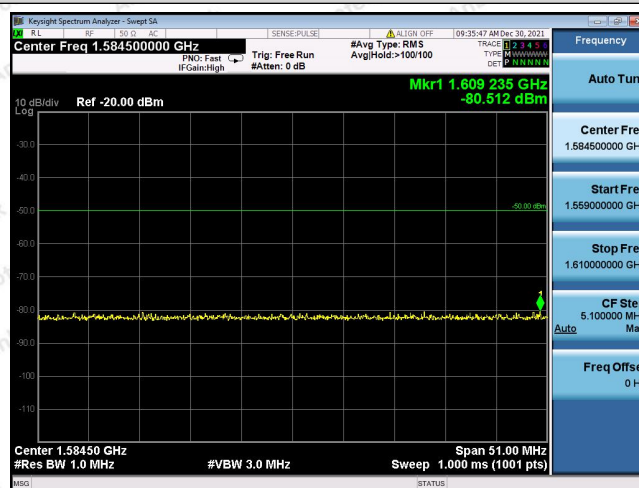
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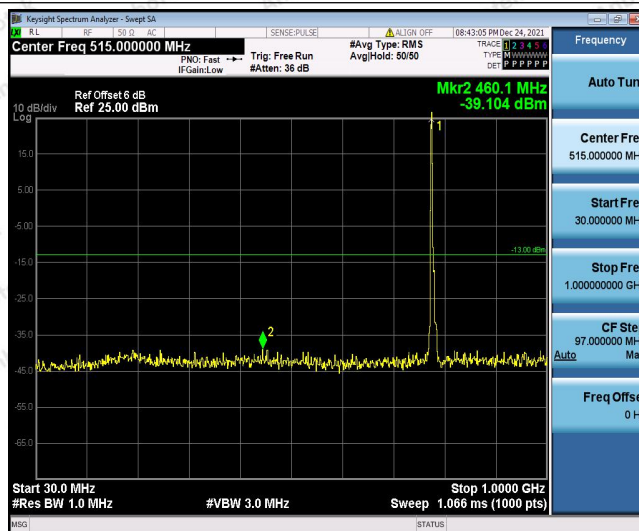
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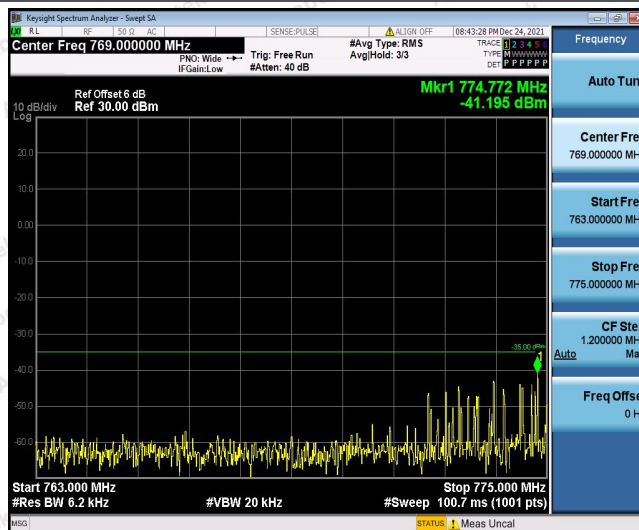
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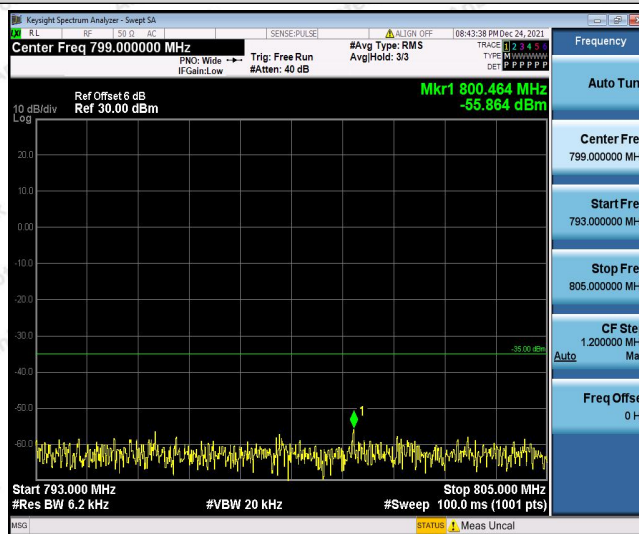
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Band13-5MHz-QPSK-23230-1RB#0-Range3:763~775MHz



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



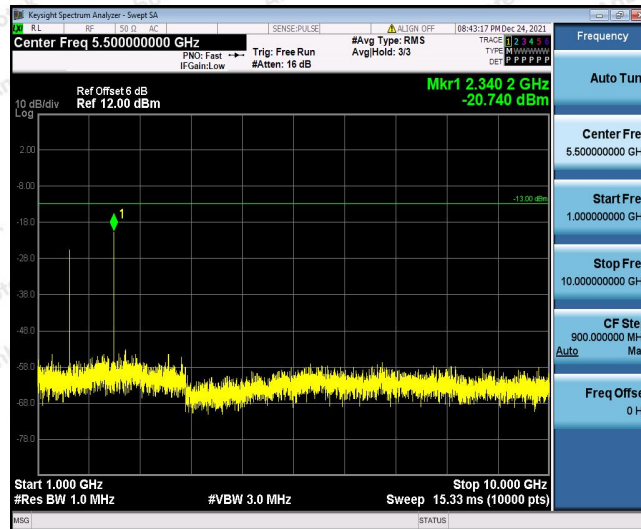
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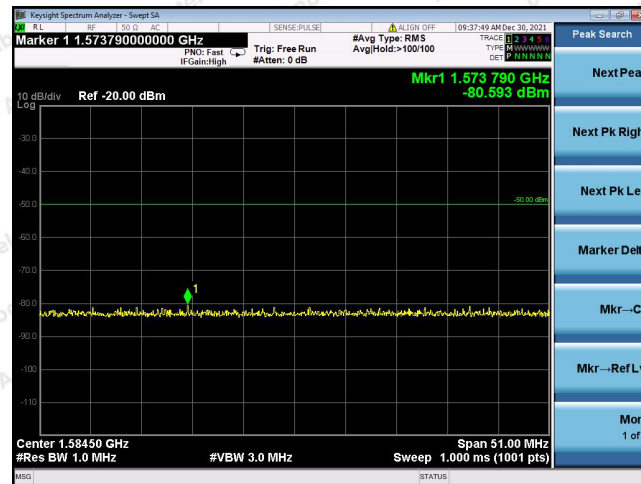
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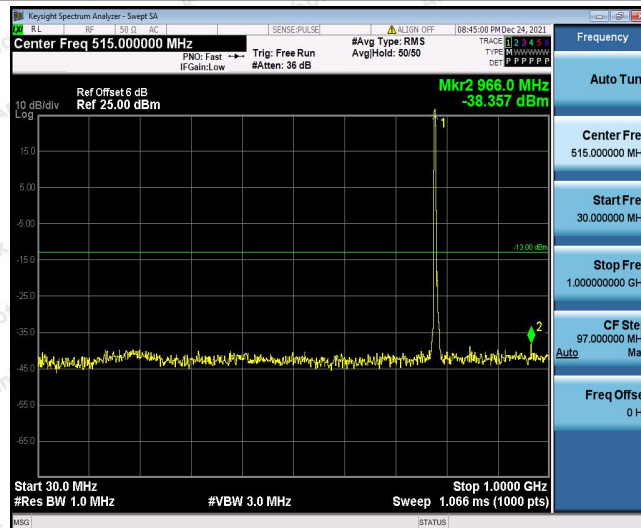
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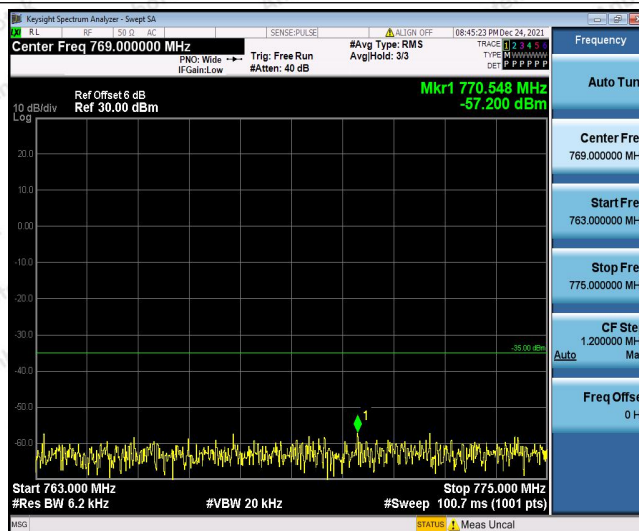
Band13-5MHz-QPSK-23230-1RB#0-Range5:1559~1610MHz



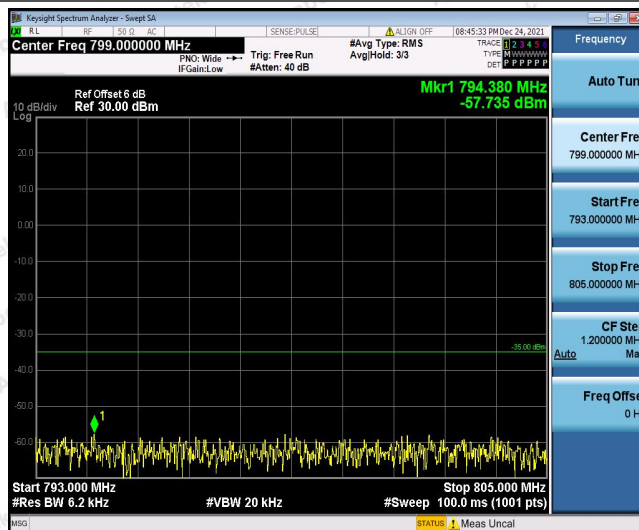
Band13-5MHz-QPSK-23255-1RB#0-Range1:30~1000MHz



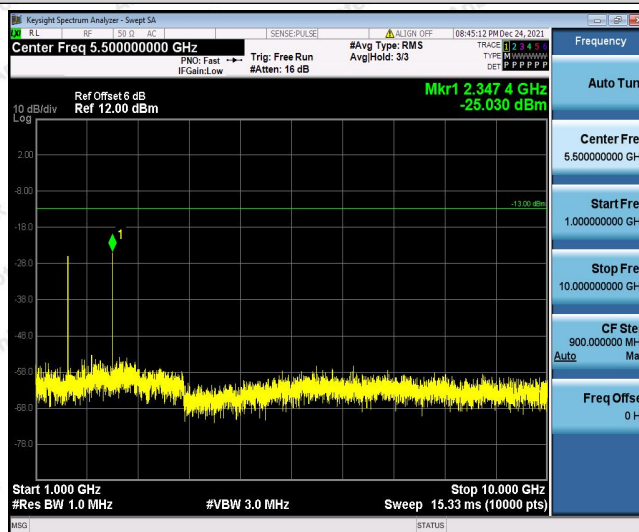
Band13-5MHz-QPSK-23255-1RB#0-Range3:763~775MHz



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



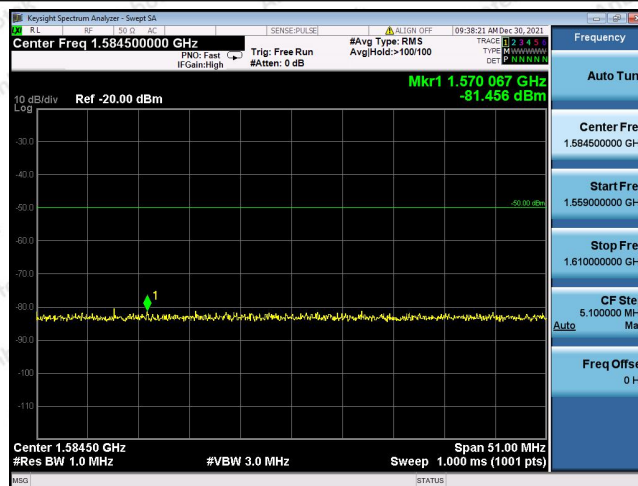
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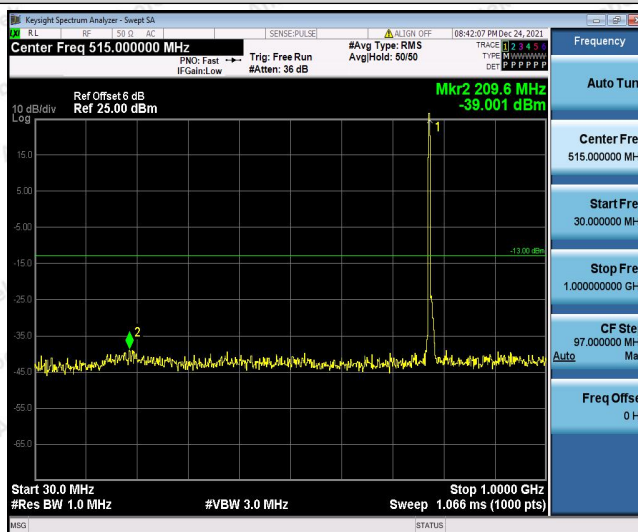
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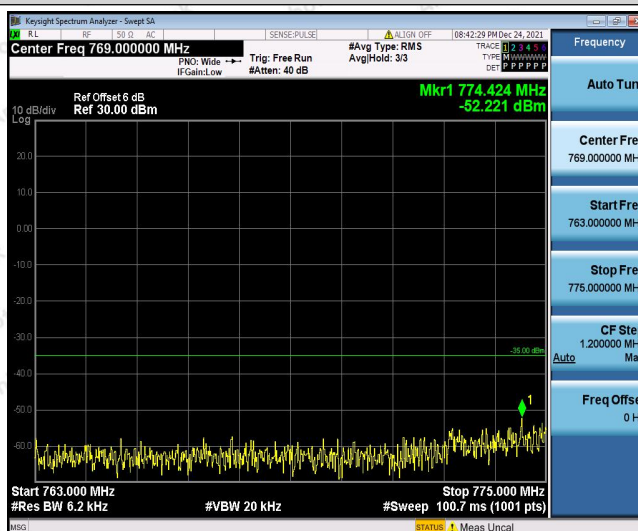
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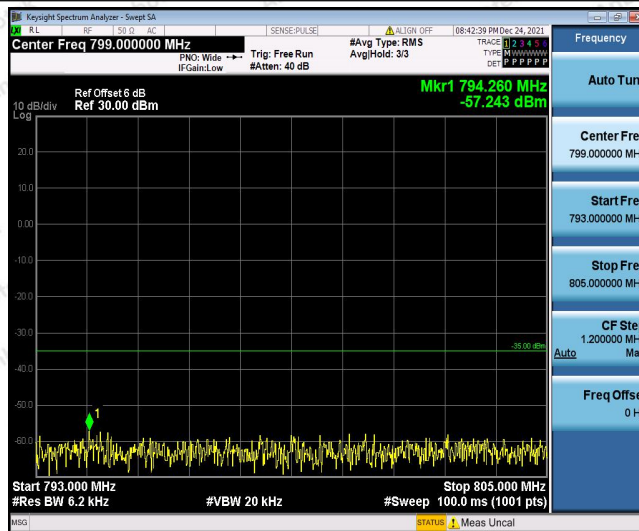
Band13-5MHz-16QAM-23205-1RB#0-Range1:30~1000MHz



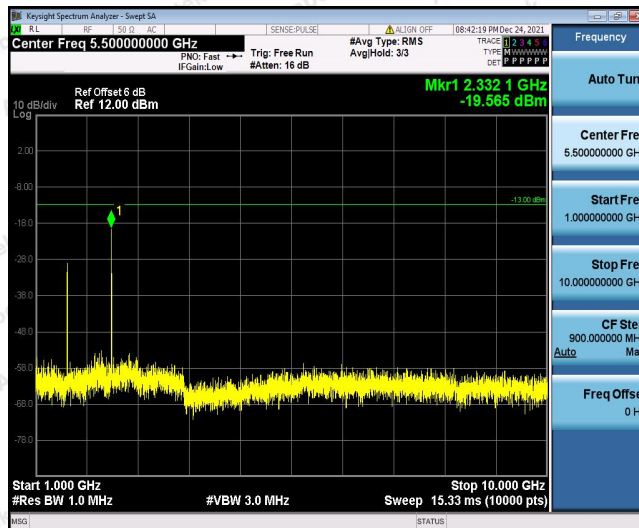
Band13-5MHz-16QAM-23205-1RB#0-Range3:763~775MHz



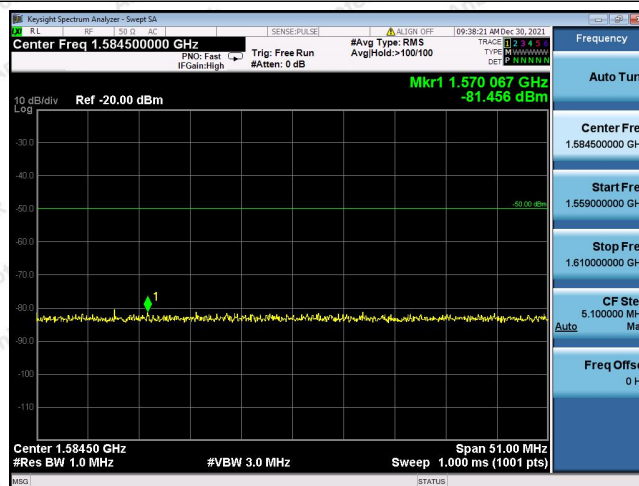
Band13-5MHz-16QAM-23205-1RB#0-Range4:793~805MHz



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



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



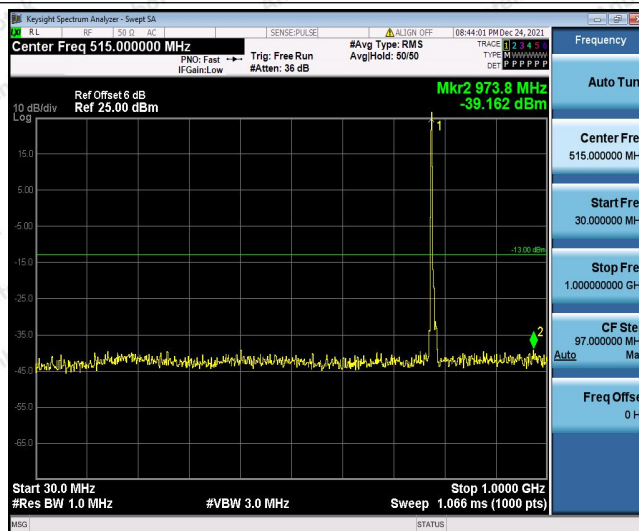
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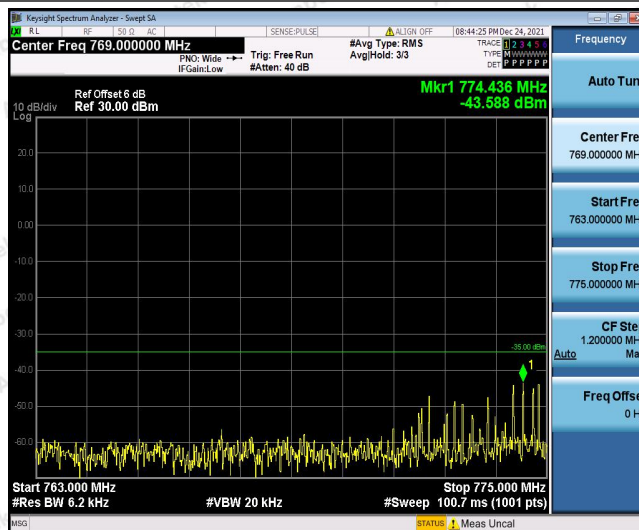
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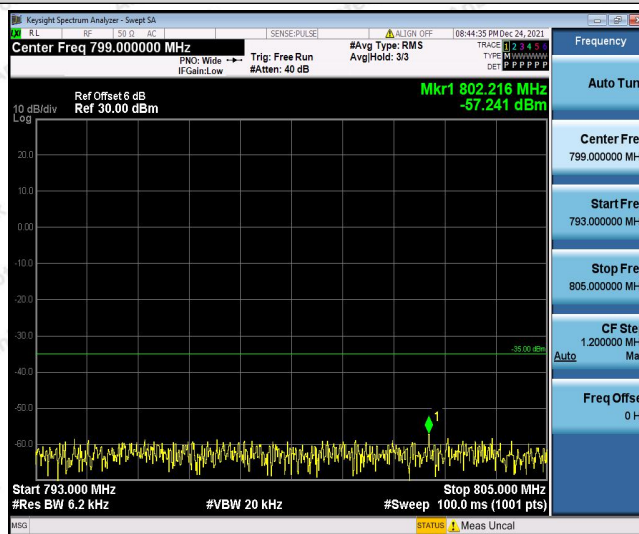
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Band13-5MHz-16QAM-23230-1RB#0-Range4:793~805MHz



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

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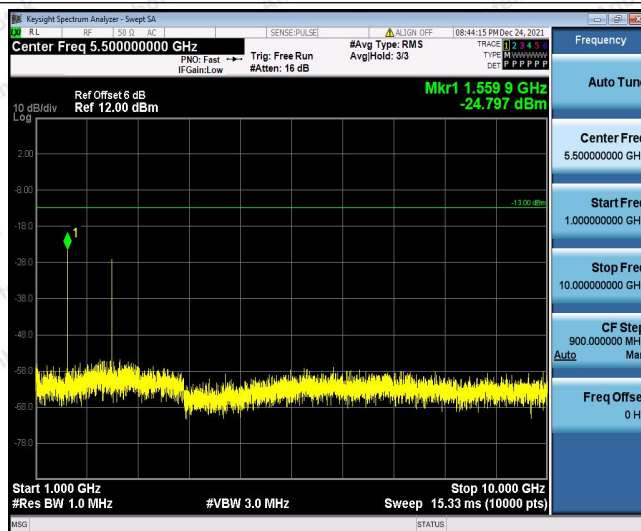
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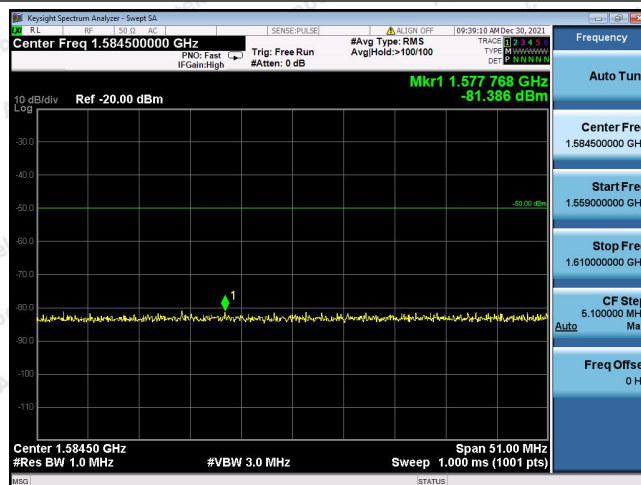
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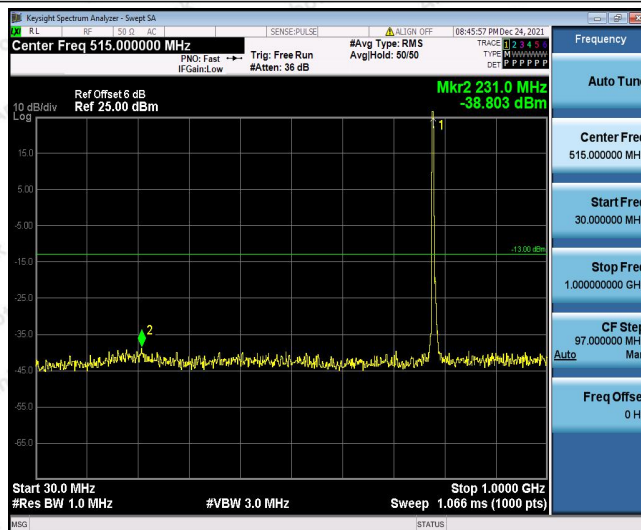
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Band13-5MHz-16QAM-23230-1RB#0-Range5:1559~1610MHz



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



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

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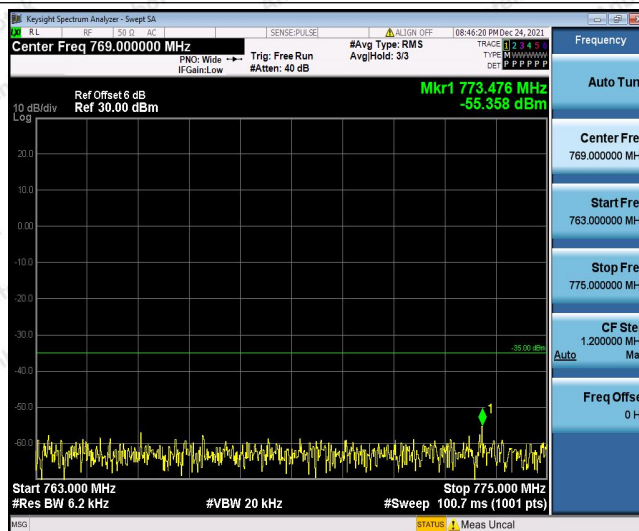
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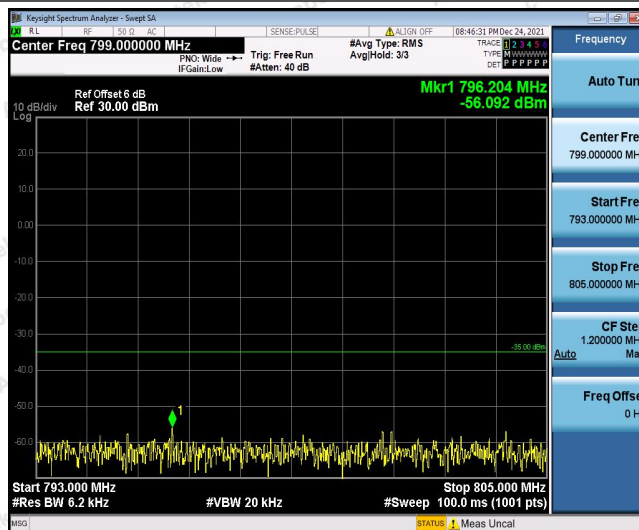
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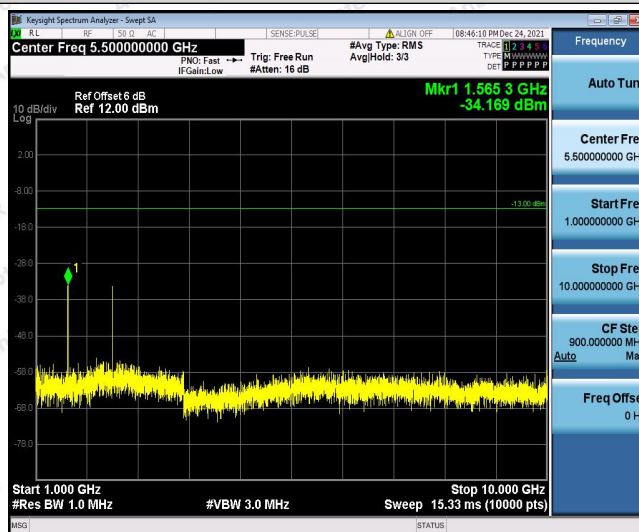
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Band13-5MHz-16QAM-23255-1RB#0-Range4:793~805MHz



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



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

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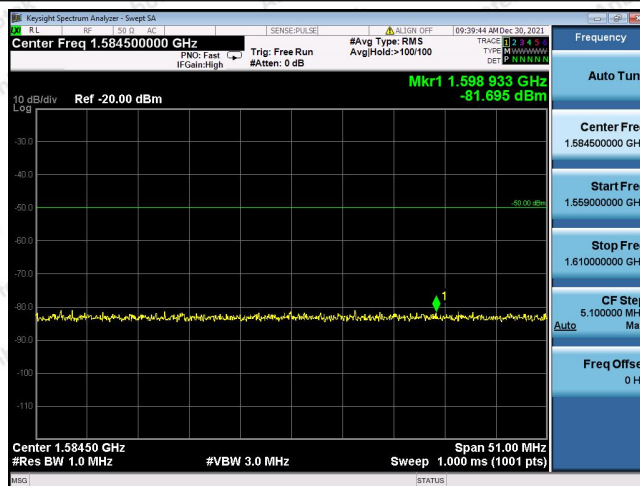
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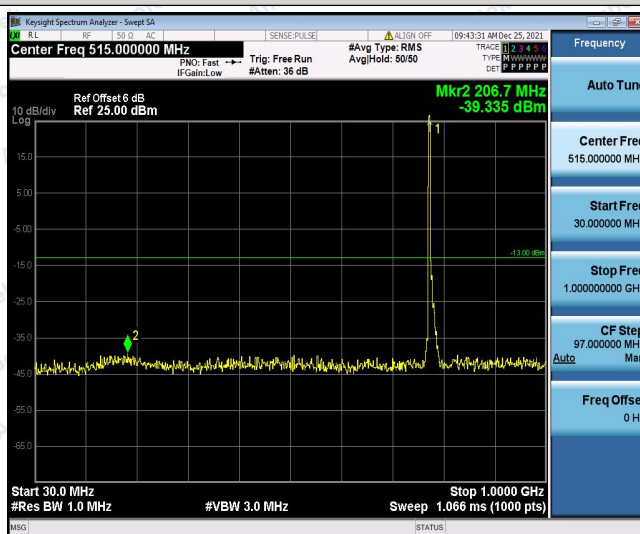
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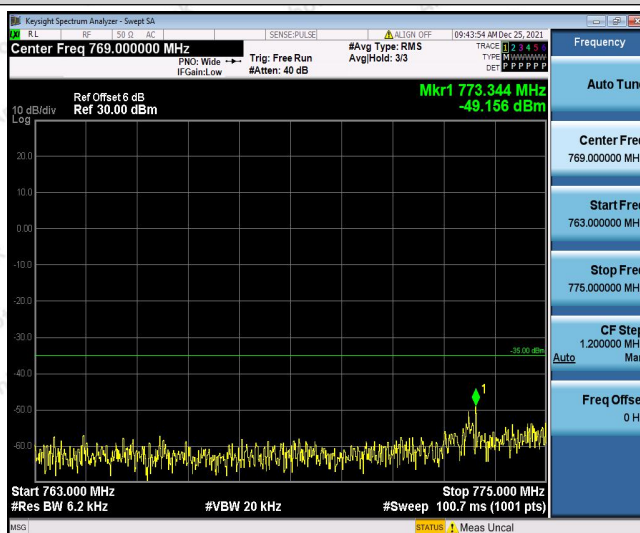
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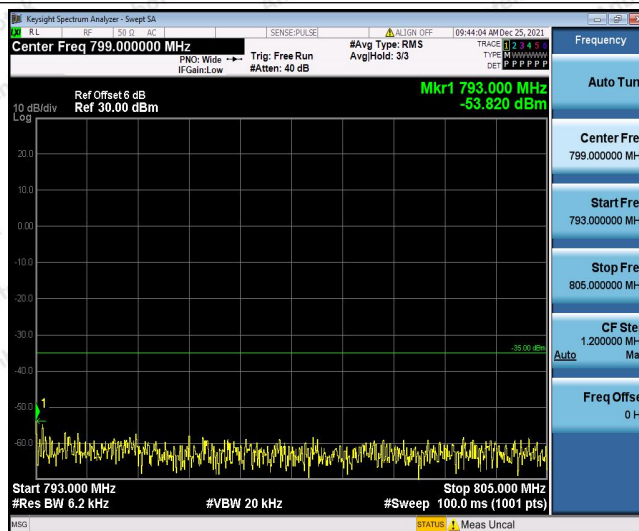
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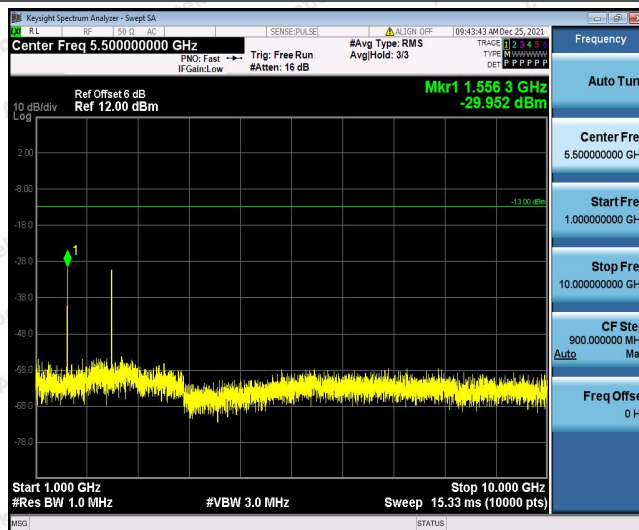
Band13-10MHz-QPSK-23230-1RB#0-Range3:763~775MHz



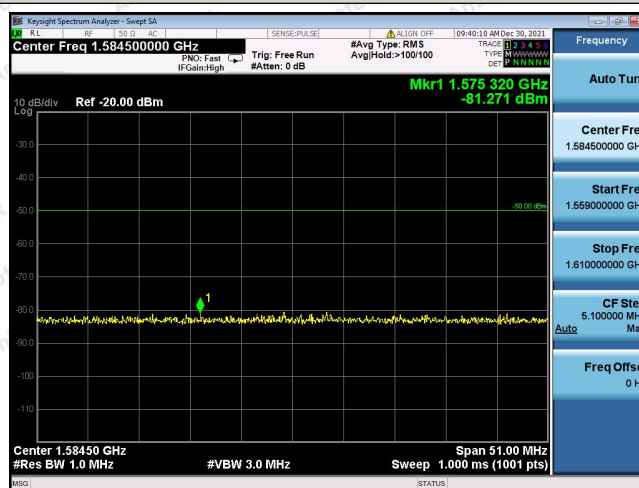
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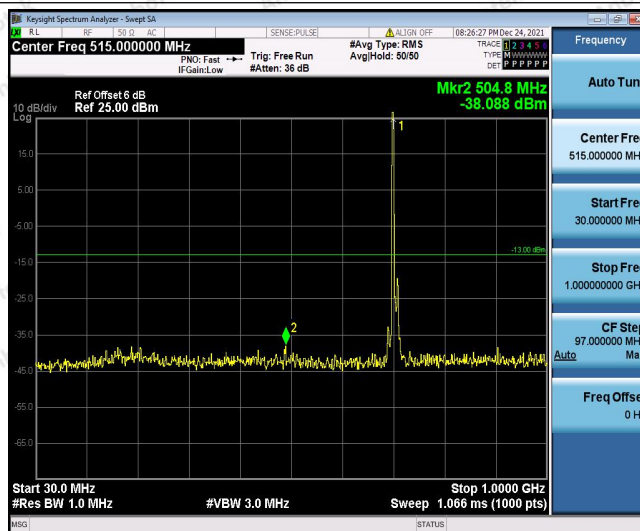
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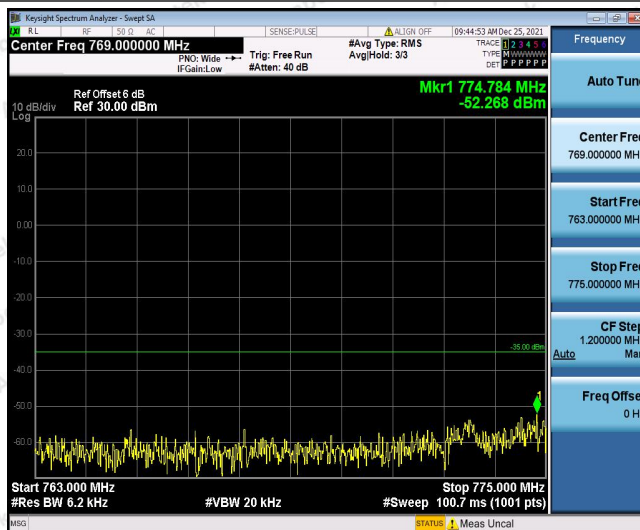
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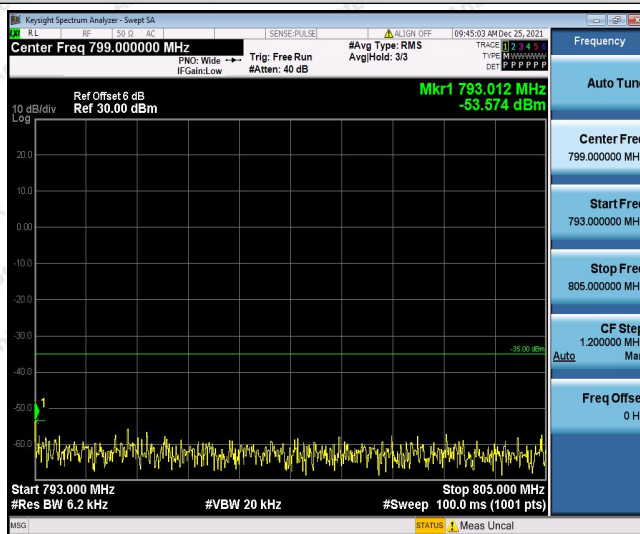
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Band13-10MHz-16QAM-23230-1RB#0-Range3:763~775MHz



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



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

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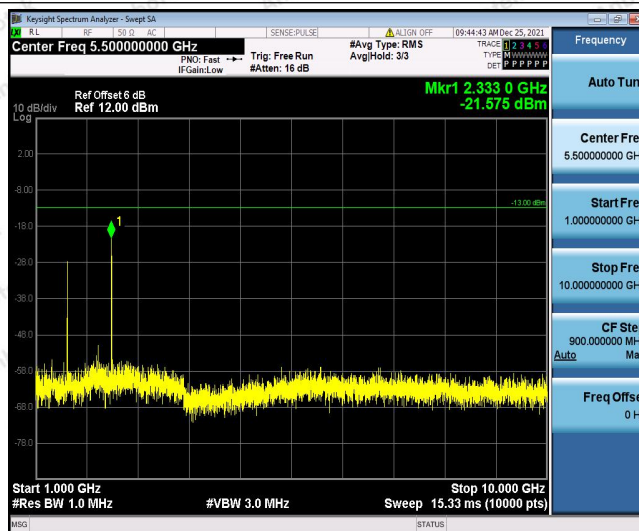
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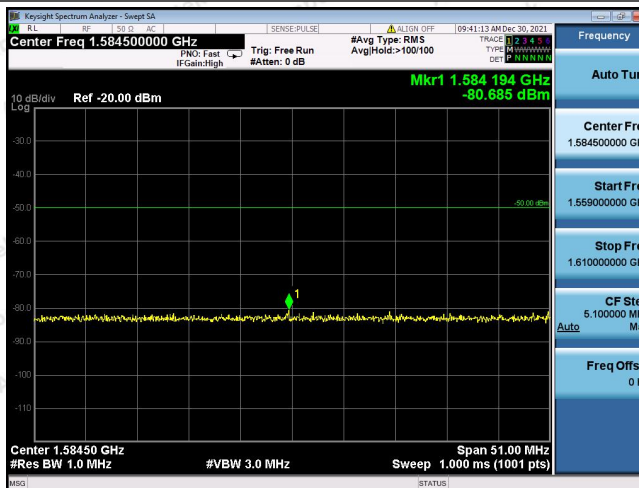
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Band13-10MHz-16QAM-23230-1RB#0-Range5:1559~1610MHz



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Appendix F: Frequency Stability VS Voltage

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Voltage		Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
					Voltage [Vdc]	Temperature (°C)				
Band1_3	5MHz	QPSK	23205	25RB#0	VL	NT	-13.36	-0.017139	±2.5	PASS
Band1_3	5MHz	QPSK	23205	25RB#0	VN	NT	-15.86	-0.020346	±2.5	PASS
Band1_3	5MHz	QPSK	23205	25RB#0	VH	NT	-11.86	-0.015215	±2.5	PASS
Band1_3	5MHz	QPSK	23230	25RB#0	VL	NT	-12.32	-0.015754	±2.5	PASS
Band1_3	5MHz	QPSK	23230	25RB#0	VN	NT	-7.20	-0.009207	±2.5	PASS
Band1_3	5MHz	QPSK	23230	25RB#0	VH	NT	-9.91	-0.012673	±2.5	PASS
Band1_3	5MHz	QPSK	23255	25RB#0	VL	NT	-10.06	-0.012823	±2.5	PASS
Band1_3	5MHz	QPSK	23255	25RB#0	VN	NT	2.63	0.003352	±2.5	PASS
Band1_3	5MHz	QPSK	23255	25RB#0	VH	NT	-13.93	-0.017757	±2.5	PASS
Band1_3	5MHz	16QAM	23205	25RB#0	VL	NT	-6.84	-0.008775	±2.5	PASS
Band1_3	5MHz	16QAM	23205	25RB#0	VN	NT	-7.70	-0.009878	±2.5	PASS
Band1_3	5MHz	16QAM	23205	25RB#0	VH	NT	-12.63	-0.016203	±2.5	PASS
Band1_3	5MHz	16QAM	23230	25RB#0	VL	NT	-7.82	-0.010000	±2.5	PASS
Band1_3	5MHz	16QAM	23230	25RB#0	VN	NT	-11.64	-0.014885	±2.5	PASS
Band1_3	5MHz	16QAM	23230	25RB#0	VH	NT	-10.97	-0.014028	±2.5	PASS
Band1_3	5MHz	16QAM	23255	25RB#0	VL	NT	-9.21	-0.011740	±2.5	PASS
Band1_3	5MHz	16QAM	23255	25RB#0	VN	NT	-11.64	-0.014837	±2.5	PASS
Band1_3	5MHz	16QAM	23255	25RB#0	VH	NT	-13.22	-0.016851	±2.5	PASS

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3										
Band1 3	10MHz	QPSK	23230	50RB#0	VL	NT	-6.88	-0.008798	±2.5	PASS
Band1 3	10MHz	QPSK	23230	50RB#0	VN	NT	-9.28	-0.011867	±2.5	PASS
Band1 3	10MHz	QPSK	23230	50RB#0	VH	NT	-10.07	-0.012877	±2.5	PASS
Band1 3	10MHz	16QAM	23230	50RB#0	VL	NT	-6.68	-0.008542	±2.5	PASS
Band1 3	10MHz	16QAM	23230	50RB#0	VN	NT	-8.44	-0.010793	±2.5	PASS
Band1 3	10MHz	16QAM	23230	50RB#0	VH	NT	-6.19	-0.007916	±2.5	PASS

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Appendix G: Frequency Stability VS Temperature

Test Result

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configuration	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band1 3	5MHz	QPSK	23205	25RB#0	NV	-30	-9.96	-0.012777	±2.5	PASS
Band1 3	5MHz	QPSK	23205	25RB#0	NV	-20	52.37	0.067184	±2.5	PASS
Band1 3	5MHz	QPSK	23205	25RB#0	NV	0	-13.90	-0.017832	±2.5	PASS
Band1 3	5MHz	QPSK	23205	25RB#0	NV	10	-10.81	-0.013868	±2.5	PASS
Band1 3	5MHz	QPSK	23205	25RB#0	NV	20	-10.44	-0.013393	±2.5	PASS
Band1 3	5MHz	QPSK	23230	25RB#0	NV	-30	-11.07	-0.014156	±2.5	PASS
Band1 3	5MHz	QPSK	23230	25RB#0	NV	-20	-13.05	-0.016688	±2.5	PASS
Band1 3	5MHz	QPSK	23230	25RB#0	NV	0	-8.51	-0.010882	±2.5	PASS
Band1 3	5MHz	QPSK	23230	25RB#0	NV	10	-10.87	-0.013900	±2.5	PASS
Band1 3	5MHz	QPSK	23230	25RB#0	NV	20	-8.61	-0.011010	±2.5	PASS
Band1 3	5MHz	QPSK	23255	25RB#0	NV	-30	-7.07	-0.009012	±2.5	PASS
Band1 3	5MHz	QPSK	23255	25RB#0	NV	-20	-7.80	-0.009943	±2.5	PASS
Band1 3	5MHz	QPSK	23255	25RB#0	NV	0	-8.53	-0.010873	±2.5	PASS
Band1 3	5MHz	QPSK	23255	25RB#0	NV	10	-9.37	-0.011944	±2.5	PASS
Band1 3	5MHz	QPSK	23255	25RB#0	NV	20	-14.46	-0.018432	±2.5	PASS
Band1 3	5MHz	16QAM	23205	25RB#0	NV	-30	-10.07	-0.012919	±2.5	PASS
Band1 3	5MHz	16QAM	23205	25RB#0	NV	-20	-8.80	-0.011289	±2.5	PASS
Band1 3	5MHz	16QAM	23205	25RB#0	NV	0	-10.47	-0.013432	±2.5	PASS

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Band1 3	5MHz	16QAM	23205	25RB#0	NV	10	-11.76	-0.015087	±2.5	PASS
Band1 3	5MHz	16QAM	23205	25RB#0	NV	20	-7.55	-0.009686	±2.5	PASS
Band1 3	5MHz	16QAM	23230	25RB#0	NV	-30	-12.43	-0.015895	±2.5	PASS
Band1 3	5MHz	16QAM	23230	25RB#0	NV	-20	-8.23	-0.010524	±2.5	PASS
Band1 3	5MHz	16QAM	23230	25RB#0	NV	0	-10.83	-0.013849	±2.5	PASS
Band1 3	5MHz	16QAM	23230	25RB#0	NV	10	-9.86	-0.012609	±2.5	PASS
Band1 3	5MHz	16QAM	23230	25RB#0	NV	20	-5.48	-0.007008	±2.5	PASS
Band1 3	5MHz	16QAM	23255	25RB#0	NV	-30	-10.96	-0.013971	±2.5	PASS
Band1 3	5MHz	16QAM	23255	25RB#0	NV	-20	-7.95	-0.010134	±2.5	PASS
Band1 3	5MHz	16QAM	23255	25RB#0	NV	0	15.79	0.020127	±2.5	PASS
Band1 3	5MHz	16QAM	23255	25RB#0	NV	10	-10.06	-0.012823	±2.5	PASS
Band1 3	5MHz	16QAM	23255	25RB#0	NV	20	-12.53	-0.015972	±2.5	PASS
Band1 3	10MHz	QPSK	23230	50RB#0	NV	-30	-9.17	-0.011726	±2.5	PASS
Band1 3	10MHz	QPSK	23230	50RB#0	NV	-20	-9.60	-0.012276	±2.5	PASS
Band1 3	10MHz	QPSK	23230	50RB#0	NV	0	-9.94	-0.012711	±2.5	PASS
Band1 3	10MHz	QPSK	23230	50RB#0	NV	10	-5.79	-0.007404	±2.5	PASS
Band1 3	10MHz	QPSK	23230	50RB#0	NV	20	-6.28	-0.008031	±2.5	PASS
Band1 3	10MHz	16QAM	23230	50RB#0	NV	-30	-6.68	-0.008542	±2.5	PASS
Band1 3	10MHz	16QAM	23230	50RB#0	NV	-20	-9.96	-0.012737	±2.5	PASS
Band1 3	10MHz	16QAM	23230	50RB#0	NV	0	-9.71	-0.012417	±2.5	PASS
Band1 3	10MHz	16QAM	23230	50RB#0	NV	10	-7.51	-0.009604	±2.5	PASS
Band1 3	10MHz	16QAM	23230	50RB#0	NV	20	-6.55	-0.008376	±2.5	PASS

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