

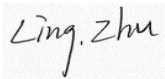
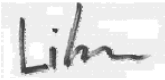


Appendix I: Test Data for E-UTRA Band 13

Product Name: Smart POS

Test Model: WIZARPOS Q2

Environmental Conditions

Temperature:	23.5℃
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	 Ling Zhu
Supervised by:	 Li Huan



I.1 Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	22.68	PASS
Band13	5MHz	QPSK	23205	1RB#12	22.89	PASS
Band13	5MHz	QPSK	23205	1RB#24	22.69	PASS
Band13	5MHz	QPSK	23205	12RB#0	21.93	PASS
Band13	5MHz	QPSK	23205	12RB#6	21.80	PASS
Band13	5MHz	QPSK	23205	12RB#13	21.74	PASS
Band13	5MHz	QPSK	23205	25RB#0	21.77	PASS
Band13	5MHz	QPSK	23230	1RB#0	22.76	PASS
Band13	5MHz	QPSK	23230	1RB#12	23.09	PASS
Band13	5MHz	QPSK	23230	1RB#24	22.99	PASS
Band13	5MHz	QPSK	23230	12RB#0	21.73	PASS
Band13	5MHz	QPSK	23230	12RB#6	21.76	PASS
Band13	5MHz	QPSK	23230	12RB#13	21.87	PASS
Band13	5MHz	QPSK	23230	25RB#0	21.79	PASS
Band13	5MHz	QPSK	23255	1RB#0	22.85	PASS
Band13	5MHz	QPSK	23255	1RB#12	23.07	PASS
Band13	5MHz	QPSK	23255	1RB#24	23.01	PASS
Band13	5MHz	QPSK	23255	12RB#0	22.16	PASS
Band13	5MHz	QPSK	23255	12RB#6	21.94	PASS
Band13	5MHz	QPSK	23255	12RB#13	22.12	PASS
Band13	5MHz	QPSK	23255	25RB#0	21.89	PASS
Band13	5MHz	16QAM	23205	1RB#0	21.89	PASS
Band13	5MHz	16QAM	23205	1RB#12	21.81	PASS
Band13	5MHz	16QAM	23205	1RB#24	21.82	PASS
Band13	5MHz	16QAM	23205	12RB#0	20.73	PASS
Band13	5MHz	16QAM	23205	12RB#6	20.89	PASS
Band13	5MHz	16QAM	23205	12RB#13	20.73	PASS
Band13	5MHz	16QAM	23205	25RB#0	20.87	PASS
Band13	5MHz	16QAM	23230	1RB#0	21.59	PASS
Band13	5MHz	16QAM	23230	1RB#12	21.61	PASS
Band13	5MHz	16QAM	23230	1RB#24	21.67	PASS
Band13	5MHz	16QAM	23230	12RB#0	20.87	PASS



Band13	5MHz	16QAM	23230	12RB#6	20.84	PASS
Band13	5MHz	16QAM	23230	12RB#13	20.90	PASS
Band13	5MHz	16QAM	23230	25RB#0	20.79	PASS
Band13	5MHz	16QAM	23255	1RB#0	21.62	PASS
Band13	5MHz	16QAM	23255	1RB#12	21.96	PASS
Band13	5MHz	16QAM	23255	1RB#24	22.06	PASS
Band13	5MHz	16QAM	23255	12RB#0	20.84	PASS
Band13	5MHz	16QAM	23255	12RB#6	20.81	PASS
Band13	5MHz	16QAM	23255	12RB#13	20.79	PASS
Band13	5MHz	16QAM	23255	25RB#0	20.98	PASS
Band13	10MHz	QPSK	23230	1RB#0	23.17	PASS
Band13	10MHz	QPSK	23230	1RB#24	22.96	PASS
Band13	10MHz	QPSK	23230	1RB#49	23.27	PASS
Band13	10MHz	QPSK	23230	25RB#0	21.88	PASS
Band13	10MHz	QPSK	23230	25RB#12	21.87	PASS
Band13	10MHz	QPSK	23230	25RB#25	21.99	PASS
Band13	10MHz	QPSK	23230	50RB#0	21.89	PASS
Band13	10MHz	16QAM	23230	1RB#0	22.05	PASS
Band13	10MHz	16QAM	23230	1RB#24	22.35	PASS
Band13	10MHz	16QAM	23230	1RB#49	21.94	PASS
Band13	10MHz	16QAM	23230	25RB#0	20.86	PASS
Band13	10MHz	16QAM	23230	25RB#12	20.84	PASS
Band13	10MHz	16QAM	23230	25RB#25	21.04	PASS
Band13	10MHz	16QAM	23230	50RB#0	20.97	PASS



I.2 Peak-to-Average Ratio(CCDF)

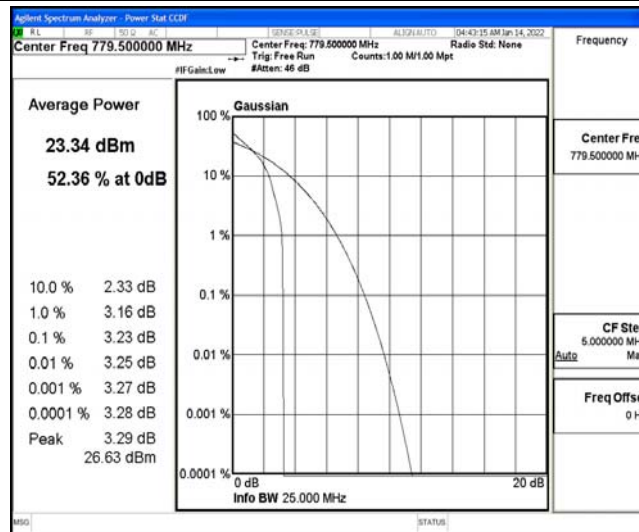
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	3.23	13	PASS
Band13	5MHz	QPSK	23205	25RB#0	4.05	13	PASS
Band13	5MHz	QPSK	23230	1RB#0	3.31	13	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.22	13	PASS
Band13	5MHz	QPSK	23255	1RB#0	3.51	13	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.46	13	PASS
Band13	5MHz	16QAM	23205	1RB#0	4.16	13	PASS
Band13	5MHz	16QAM	23205	25RB#0	5.02	13	PASS
Band13	5MHz	16QAM	23230	1RB#0	4.13	13	PASS
Band13	5MHz	16QAM	23230	25RB#0	5.26	13	PASS
Band13	5MHz	16QAM	23255	1RB#0	4.38	13	PASS
Band13	5MHz	16QAM	23255	25RB#0	5.37	13	PASS
Band13	10MHz	QPSK	23230	1RB#0	3.48	13	PASS
Band13	10MHz	QPSK	23230	50RB#0	4.53	13	PASS
Band13	10MHz	16QAM	23230	1RB#0	4.30	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	5.39	13	PASS

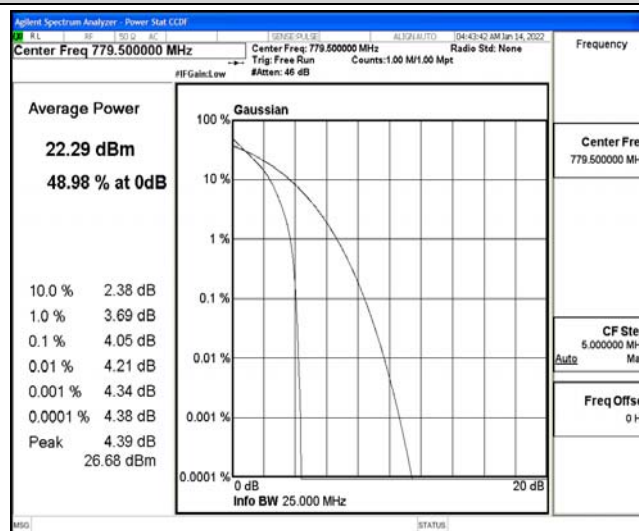


Test Graphs

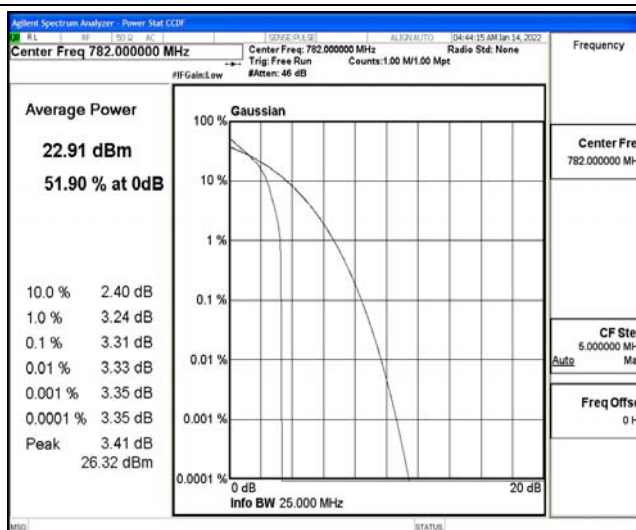
Band13-5MHz-QPSK-23205-1RB#0



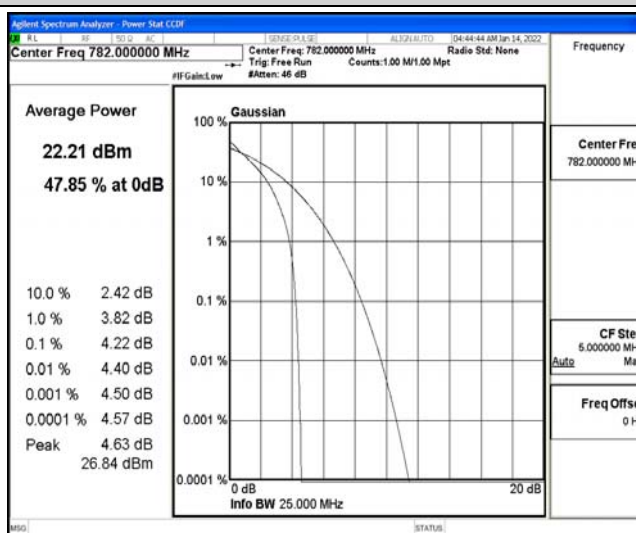
Band13-5MHz-QPSK-23205-25RB#0



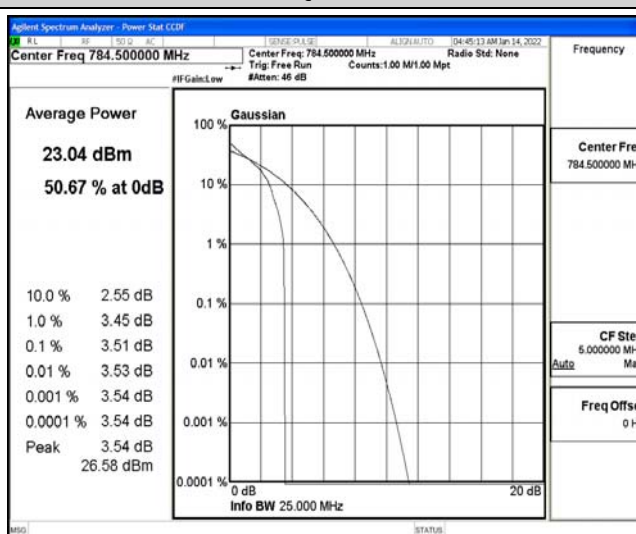
Band13-5MHz-QPSK-23230-1RB#0



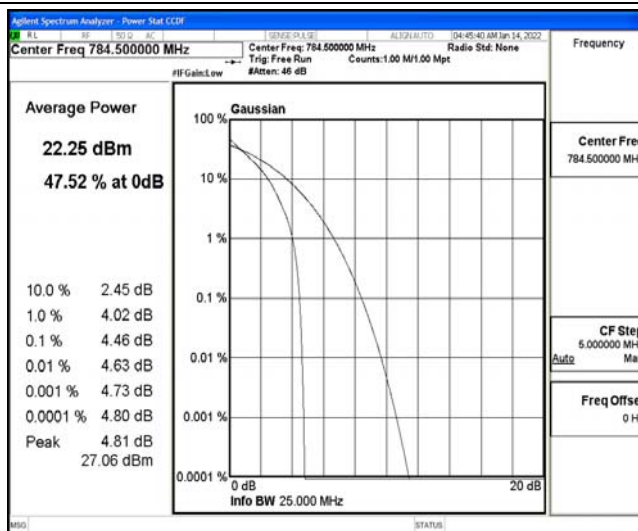
Band13-5MHz-QPSK-23230-25RB#0



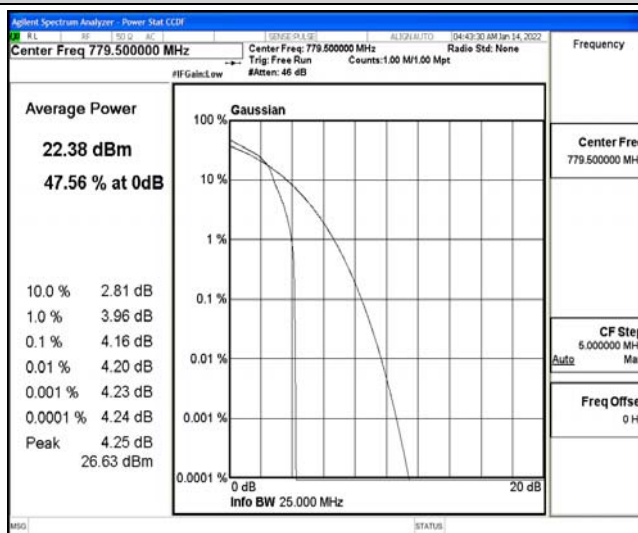
Band13-5MHz-QPSK-23255-1RB#0



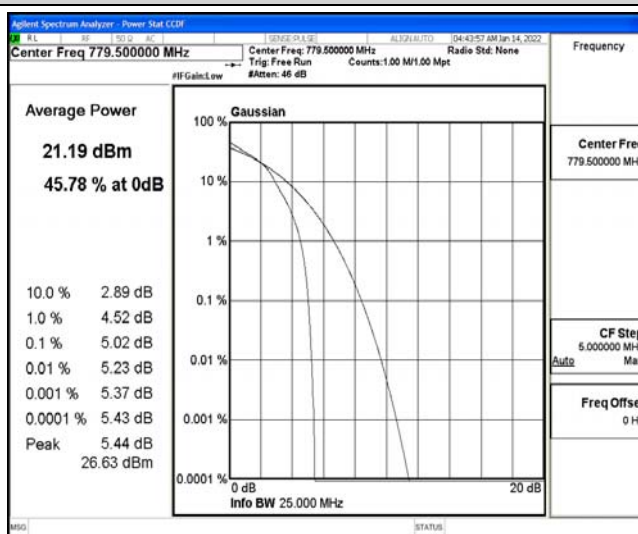
Band13-5MHz-QPSK-23255-25RB#0



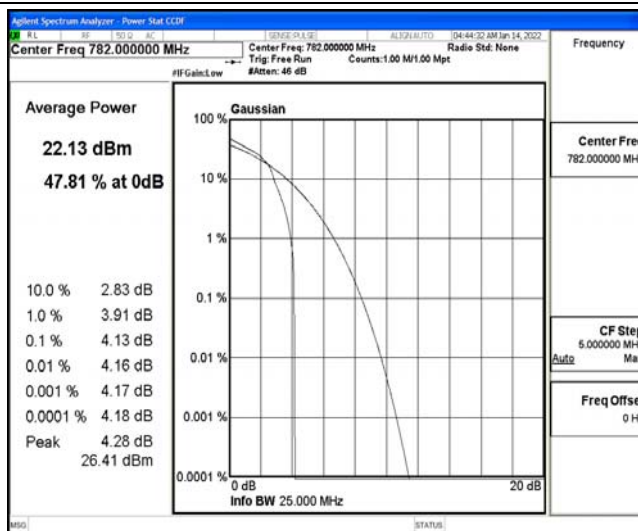
Band13-5MHz-16QAM-23205-1RB#0



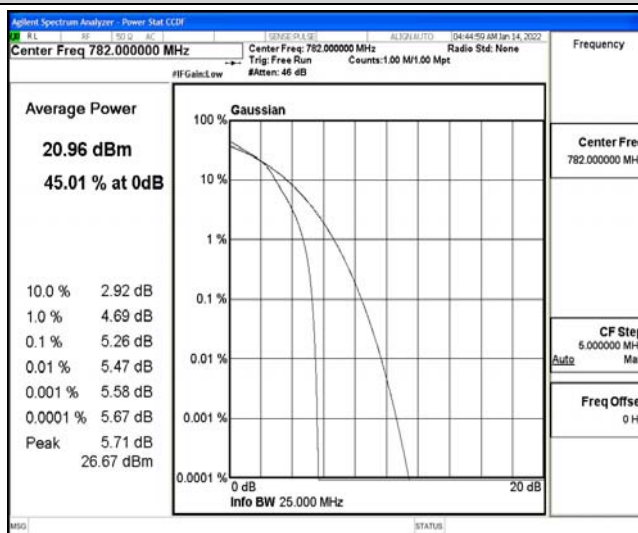
Band13-5MHz-16QAM-23205-25RB#0



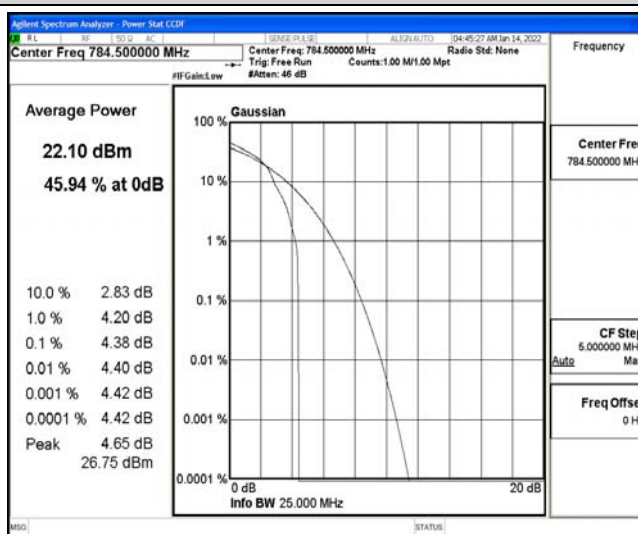
Band13-5MHz-16QAM-23230-1RB#0



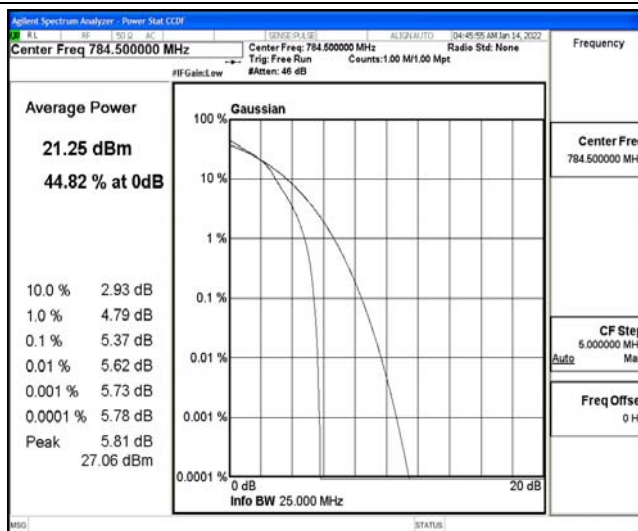
Band13-5MHz-16QAM-23230-25RB#0



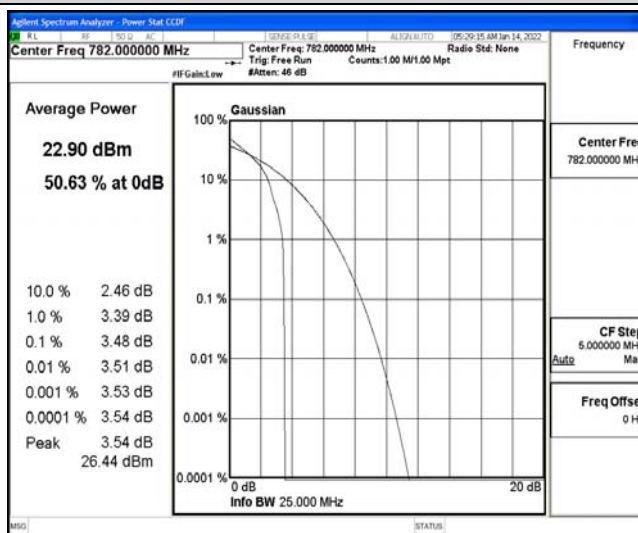
Band13-5MHz-16QAM-23255-1RB#0



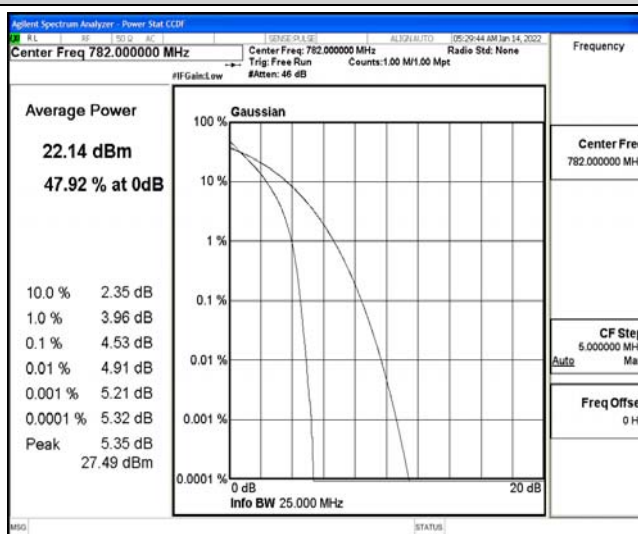
Band13-5MHz-16QAM-23255-25RB#0



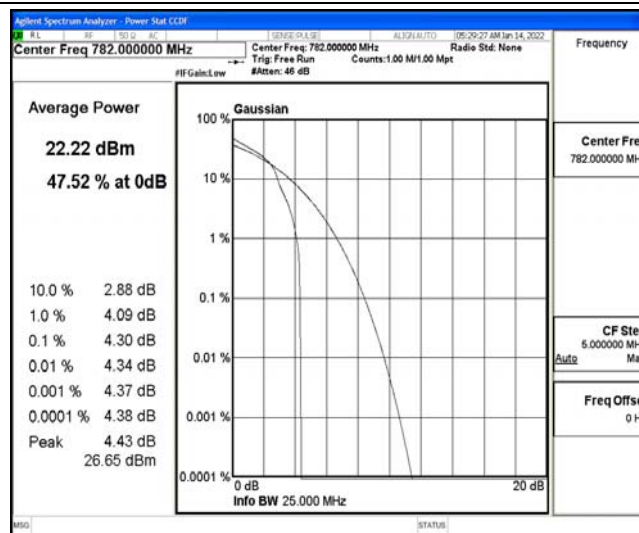
Band13-10MHz-QPSK-23230-1RB#0



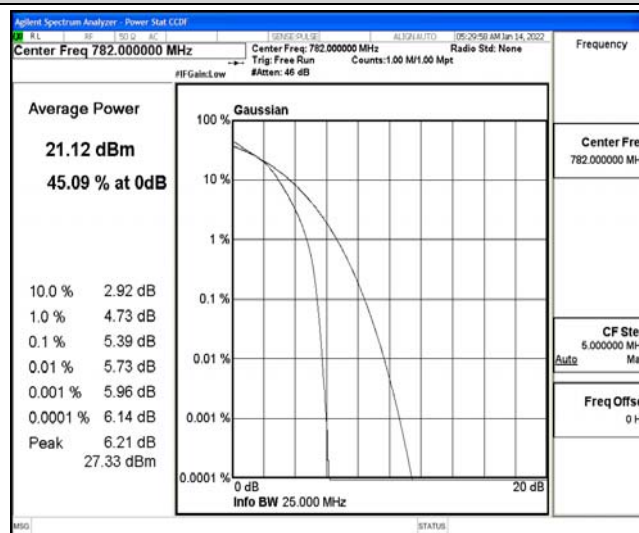
Band13-10MHz-QPSK-23230-50RB#0



Band13-10MHz-16QAM-23230-1RB#0



Band13-10MHz-16QAM-23230-50RB#0





I.3 26dB Bandwidth and Occupied Bandwidth

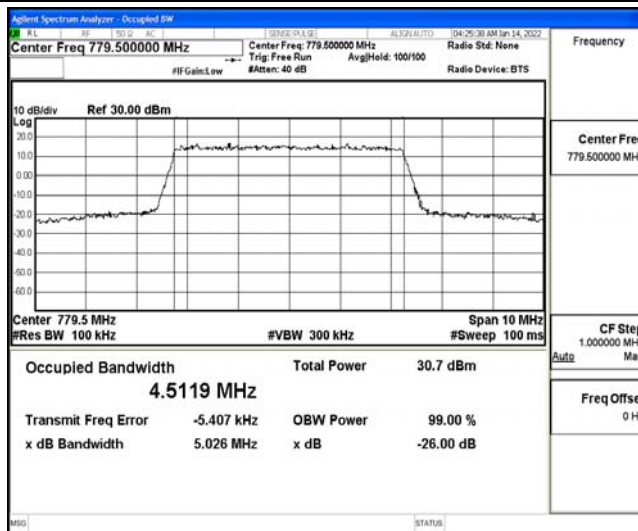
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	4.5119	5.026	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.5163	5.019	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.5033	4.980	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.5046	4.976	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.5073	4.997	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.5098	5.025	PASS
Band13	10MHz	QPSK	23230	50RB#0	8.9631	9.817	PASS
Band13	10MHz	16QAM	23230	50RB#0	8.9597	9.879	PASS

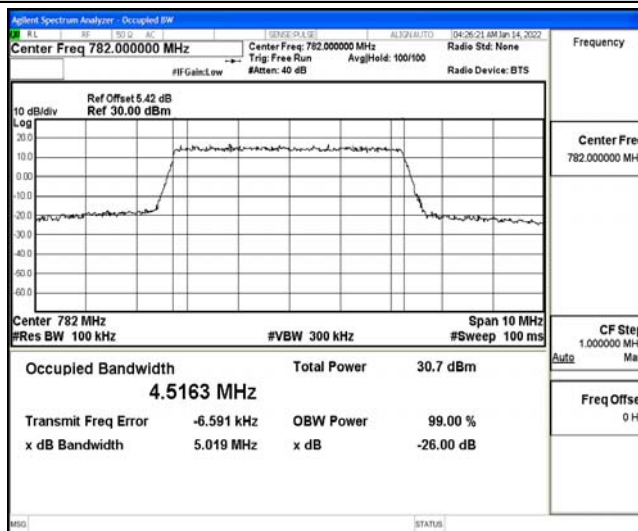


Test Graphs

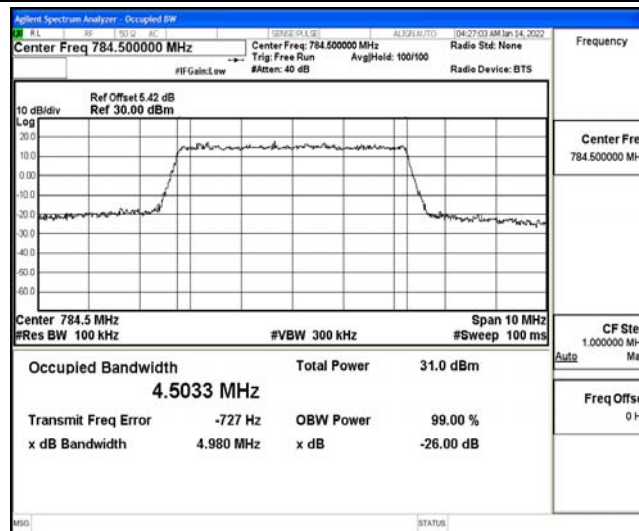
Band13-5MHz-QPSK-23205-25RB#0



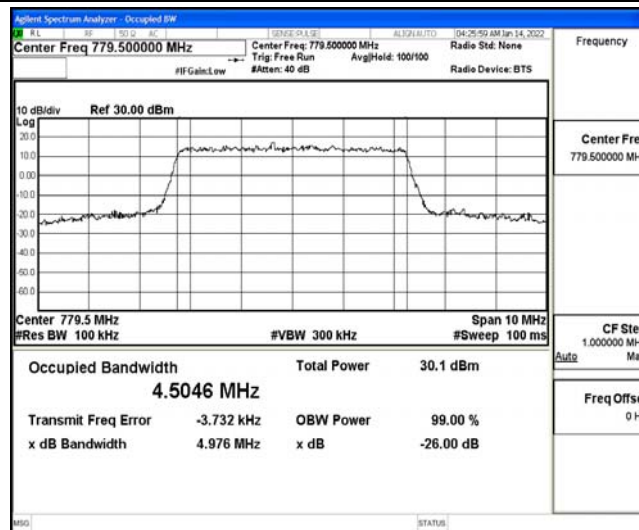
Band13-5MHz-QPSK-23230-25RB#0



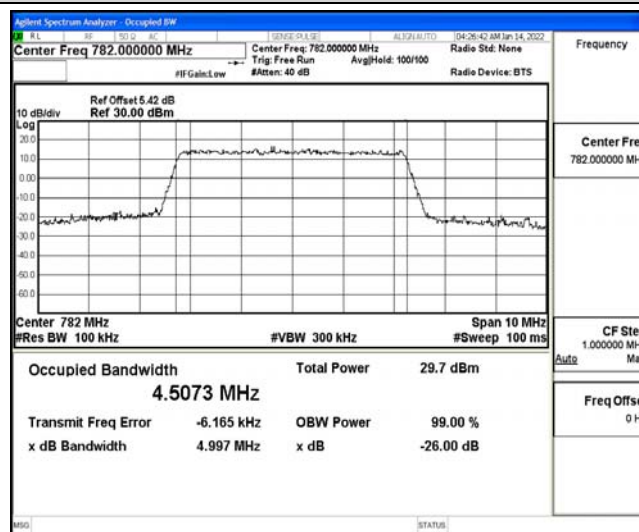
Band13-5MHz-QPSK-23255-25RB#0



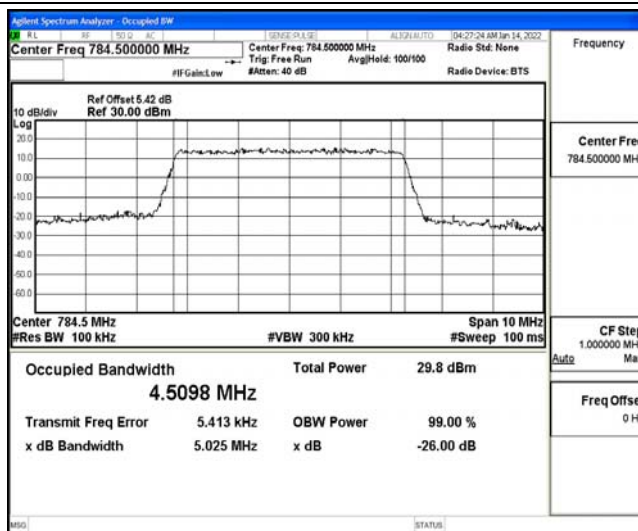
Band13-5MHz-16QAM-23205-25RB#0



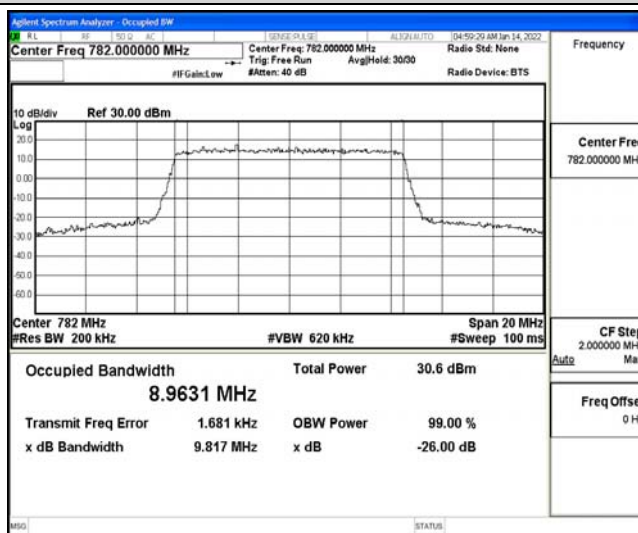
Band13-5MHz-16QAM-23230-25RB#0



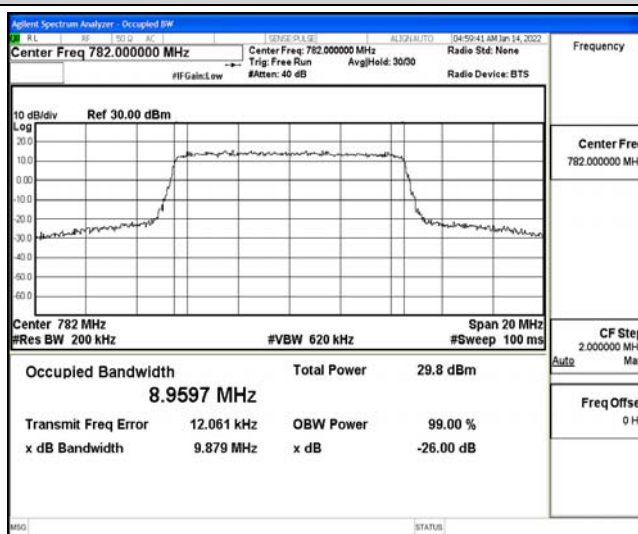
Band13-5MHz-16QAM-23255-25RB#0



Band13-10MHz-QPSK-23230-50RB#0



Band13-10MHz-16QAM-23230-50RB#0





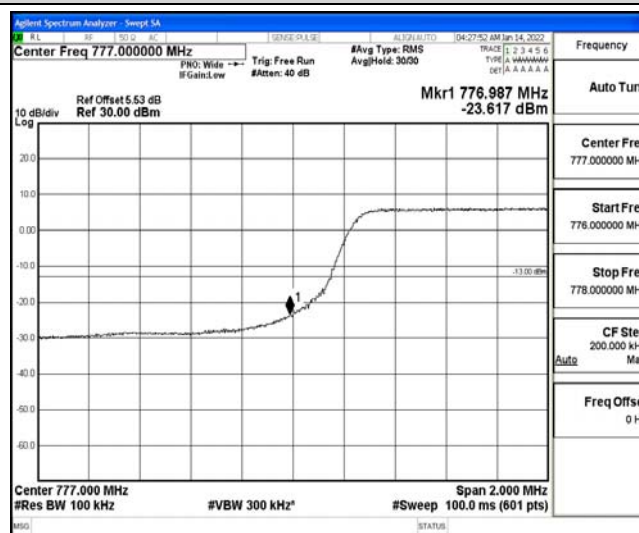
I.4 Band Edge

Test Result

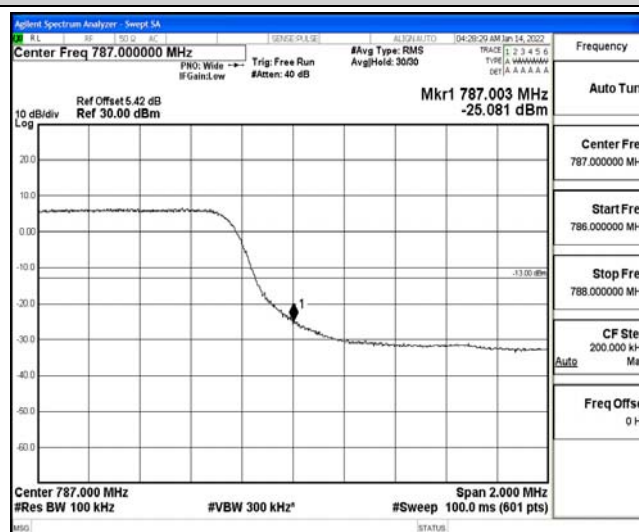
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	-23.62	PASS
Band13	5MHz	QPSK	23255	25RB#0	-25.08	PASS
Band13	5MHz	16QAM	23205	25RB#0	-24.97	PASS
Band13	5MHz	16QAM	23255	25RB#0	-26.38	PASS
Band13	10MHz	QPSK	23230	50RB#0	-26.35,-27.60	PASS
Band13	10MHz	16QAM	23230	50RB#0	-28.68,-29.48	PASS

Test Graphs

Band13-5MHz-QPSK-23205-25RB#0

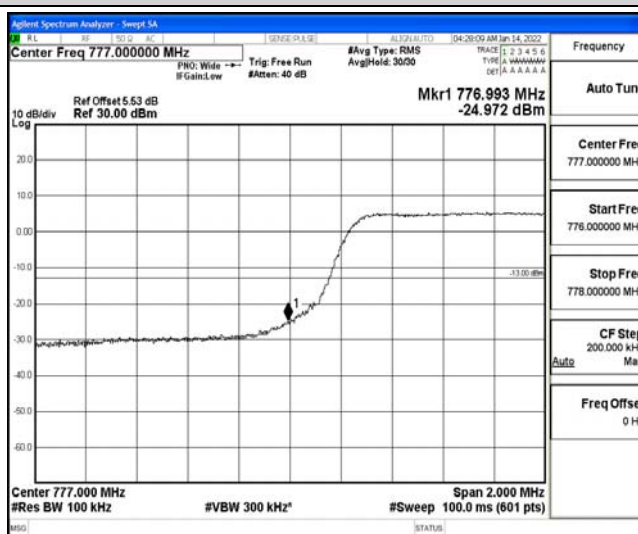


Band13-5MHz-QPSK-23255-25RB#0

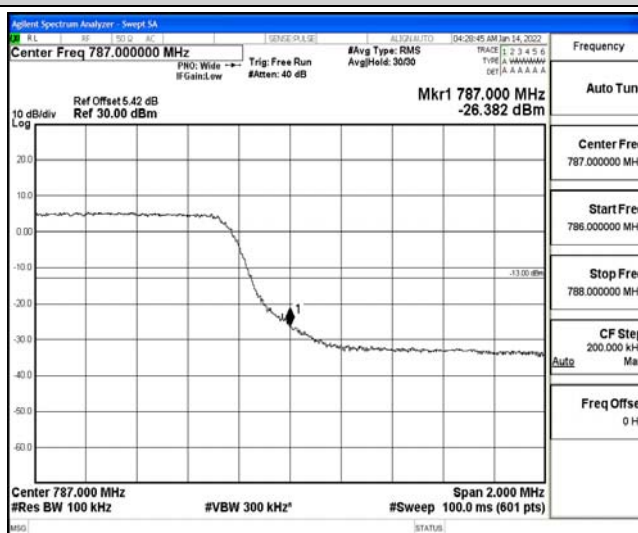




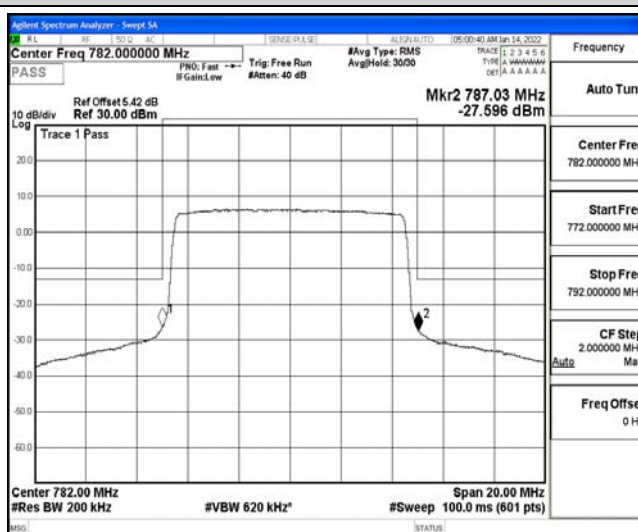
Band13-5MHz-16QAM-23205-25RB#0



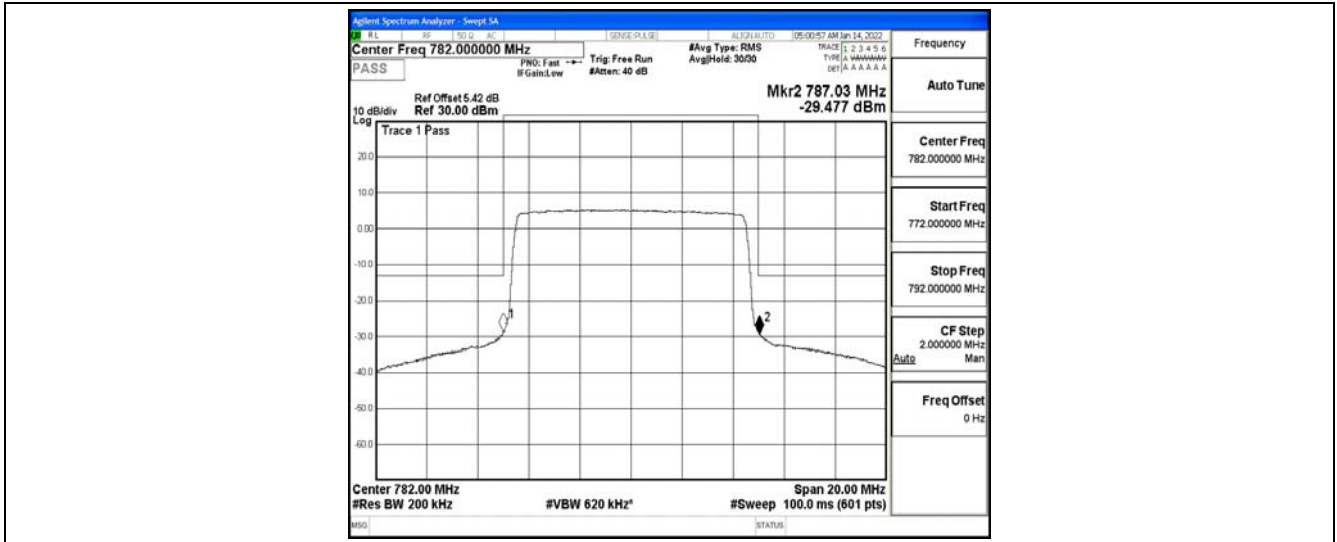
Band13-5MHz-16QAM-23255-25RB#0



Band13-10MHz-QPSK-23230-50RB#0



Band13-10MHz-16QAM-23230-50RB#0





I.5 Conducted Spurious Emission

Test Result

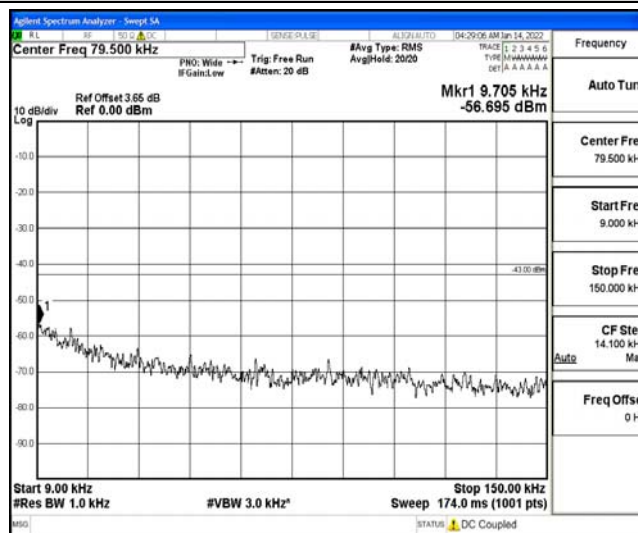
Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	Range1:0.009~0.15MHz	-56.7	PASS
Band13	5MHz	QPSK	23205	1RB#0	Range2:0.15~30MHz	-50.97	PASS
Band13	5MHz	QPSK	23205	1RB#0	Range3:30~1000MHz	-41.74	PASS
Band13	5MHz	QPSK	23205	1RB#0	Range5:763~775MHz	-54.86	PASS
Band13	5MHz	QPSK	23205	1RB#0	Range6:793~805MHz	-60.51	PASS
Band13	5MHz	QPSK	23205	1RB#0	Range4:1000~10000MHz	-45.54	PASS
Band13	5MHz	QPSK	23205	1RB#0	Range7:1559~1610MHz	-64.59	PASS
Band13	5MHz	QPSK	23230	1RB#0	Range1:0.009~0.15MHz	-54.86	PASS
Band13	5MHz	QPSK	23230	1RB#0	Range2:0.15~30MHz	-49.82	PASS
Band13	5MHz	QPSK	23230	1RB#0	Range3:30~1000MHz	-41.04	PASS
Band13	5MHz	QPSK	23230	1RB#0	Range5:763~775MHz	-59.63	PASS
Band13	5MHz	QPSK	23230	1RB#0	Range6:793~805MHz	-60.31	PASS
Band13	5MHz	QPSK	23230	1RB#0	Range4:1000~10000MHz	-45.61	PASS
Band13	5MHz	QPSK	23230	1RB#0	Range7:1559~1610MHz	-64.68	PASS
Band13	5MHz	QPSK	23255	1RB#0	Range1:0.009~0.15MHz	-55.59	PASS
Band13	5MHz	QPSK	23255	1RB#0	Range2:0.15~30MHz	-52.27	PASS
Band13	5MHz	QPSK	23255	1RB#0	Range3:30~1000MHz	-40.45	PASS
Band13	5MHz	QPSK	23255	1RB#0	Range5:763~775MHz	-59.09	PASS
Band13	5MHz	QPSK	23255	1RB#0	Range6:793~805MHz	-61.53	PASS
Band13	5MHz	QPSK	23255	1RB#0	Range4:1000~10000MHz	-45.36	PASS
Band13	5MHz	QPSK	23255	1RB#0	Range7:1559~1610MHz	-64.64	PASS
Band13	5MHz	16QAM	23205	1RB#0	Range1:0.009~0.15MHz	-54.36	PASS
Band13	5MHz	16QAM	23205	1RB#0	Range2:0.15~30MHz	-51.95	PASS
Band13	5MHz	16QAM	23205	1RB#0	Range3:30~1000MHz	-41.22	PASS
Band13	5MHz	16QAM	23205	1RB#0	Range5:763~775MHz	-55.61	PASS
Band13	5MHz	16QAM	23205	1RB#0	Range6:793~805MHz	-60.99	PASS
Band13	5MHz	16QAM	23205	1RB#0	Range4:1000~10000MHz	-45.44	PASS
Band13	5MHz	16QAM	23205	1RB#0	Range7:1559~1610MHz	-62.98	PASS
Band13	5MHz	16QAM	23230	1RB#0	Range1:0.009~0.15MHz	-55.68	PASS
Band13	5MHz	16QAM	23230	1RB#0	Range2:0.15~30MHz	-51.6	PASS
Band13	5MHz	16QAM	23230	1RB#0	Range3:30~1000MHz	-42.23	PASS
Band13	5MHz	16QAM	23230	1RB#0	Range5:763~775MHz	-59.02	PASS
Band13	5MHz	16QAM	23230	1RB#0	Range6:793~805MHz	-60.68	PASS
Band13	5MHz	16QAM	23230	1RB#0	Range4:1000~10000MHz	-45.5	PASS
Band13	5MHz	16QAM	23230	1RB#0	Range7:1559~1610MHz	-64.66	PASS



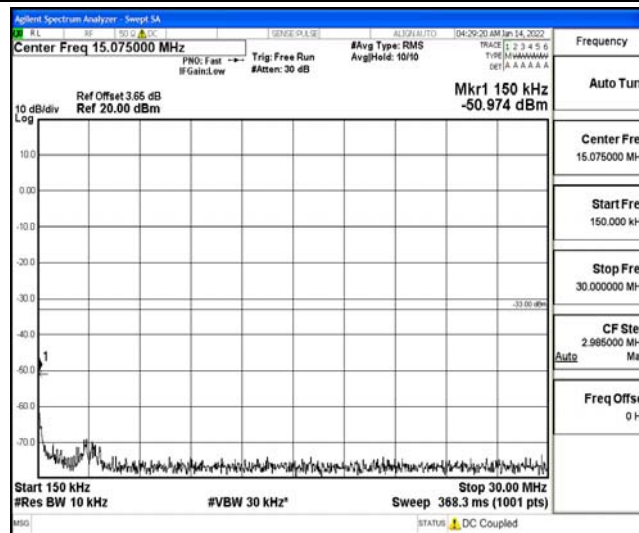
Band13	5MHz	16QAM	23255	1RB#0	Range1:0.009~0.15MHz	-55.79	PASS
Band13	5MHz	16QAM	23255	1RB#0	Range2:0.15~30MHz	-53.05	PASS
Band13	5MHz	16QAM	23255	1RB#0	Range3:30~1000MHz	-40.99	PASS
Band13	5MHz	16QAM	23255	1RB#0	Range5:763~775MHz	-59.21	PASS
Band13	5MHz	16QAM	23255	1RB#0	Range6:793~805MHz	-61.32	PASS
Band13	5MHz	16QAM	23255	1RB#0	Range4:1000~10000MHz	-45.39	PASS
Band13	5MHz	16QAM	23255	1RB#0	Range7:1559~1610MHz	-64.68	PASS
Band13	10MHz	QPSK	23230	1RB#0	Range1:0.009~0.15MHz	-54.96	PASS
Band13	10MHz	QPSK	23230	1RB#0	Range2:0.15~30MHz	-51.93	PASS
Band13	10MHz	QPSK	23230	1RB#0	Range3:30~1000MHz	-41.98	PASS
Band13	10MHz	QPSK	23230	1RB#0	Range5:763~775MHz	-50.13	PASS
Band13	10MHz	QPSK	23230	1RB#0	Range6:793~805MHz	-57.14	PASS
Band13	10MHz	QPSK	23230	1RB#0	Range4:1000~10000MHz	-45.5	PASS
Band13	10MHz	QPSK	23230	1RB#0	Range7:1559~1610MHz	-62.97	PASS
Band13	10MHz	16QAM	23230	1RB#0	Range1:0.009~0.15MHz	-54.92	PASS
Band13	10MHz	16QAM	23230	1RB#0	Range2:0.15~30MHz	-52.31	PASS
Band13	10MHz	16QAM	23230	1RB#0	Range3:30~1000MHz	-41.28	PASS
Band13	10MHz	16QAM	23230	1RB#0	Range5:763~775MHz	-56.49	PASS
Band13	10MHz	16QAM	23230	1RB#0	Range6:793~805MHz	-58.11	PASS
Band13	10MHz	16QAM	23230	1RB#0	Range4:1000~10000MHz	-45.42	PASS
Band13	10MHz	16QAM	23230	1RB#0	Range7:1559~1610MHz	-63.01	PASS

Test Graphs

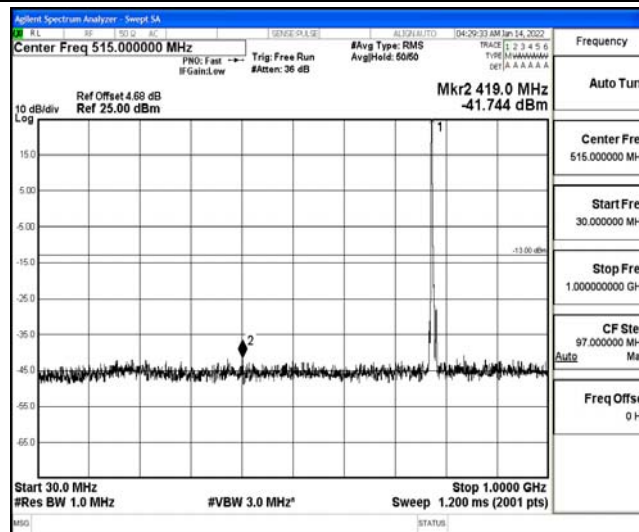
Band13-5MHz-QPSK-23205-1RB#0-Range1:0.009~0.15MHz



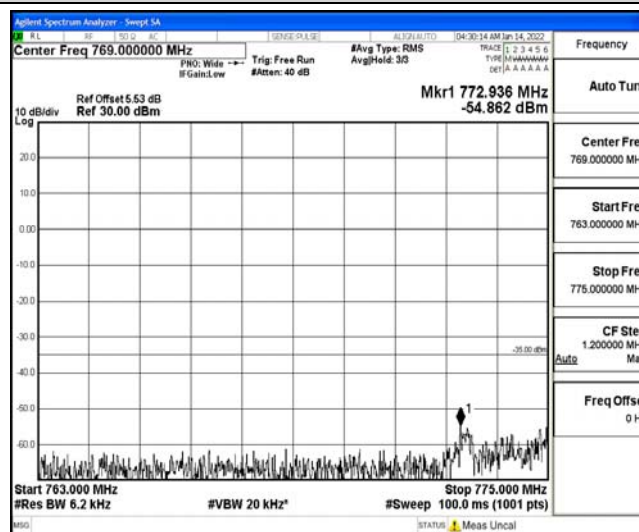
Band13-5MHz-QPSK-23205-1RB#0-Range2:0.15~30MHz



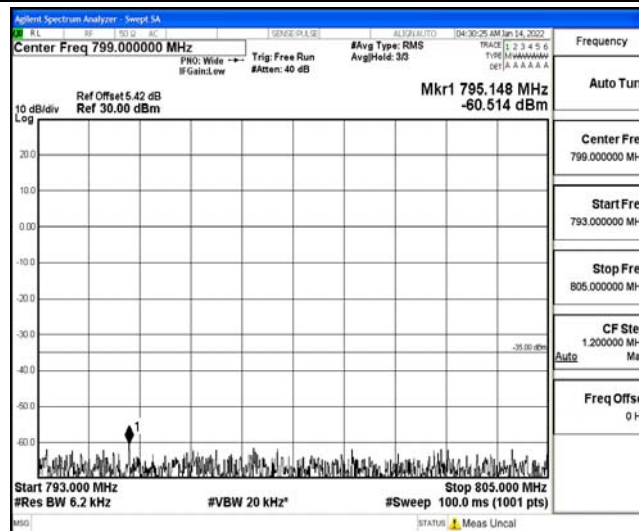
Band13-5MHz-QPSK-23205-1RB#0-Range3:30~1000MHz



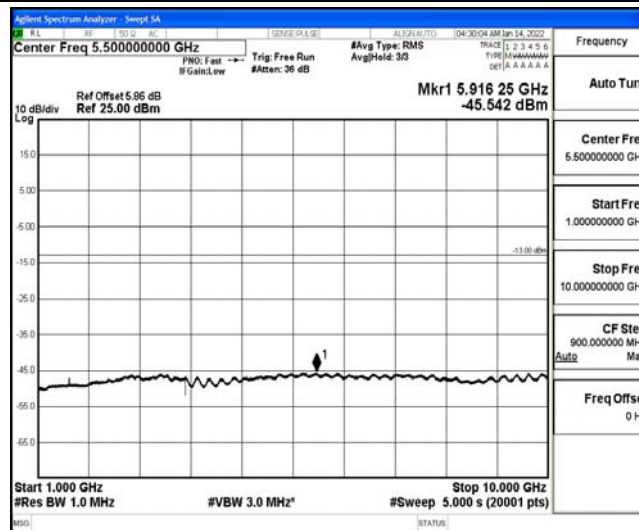
Band13-5MHz-QPSK-23205-1RB#0-Range5:763~775MHz



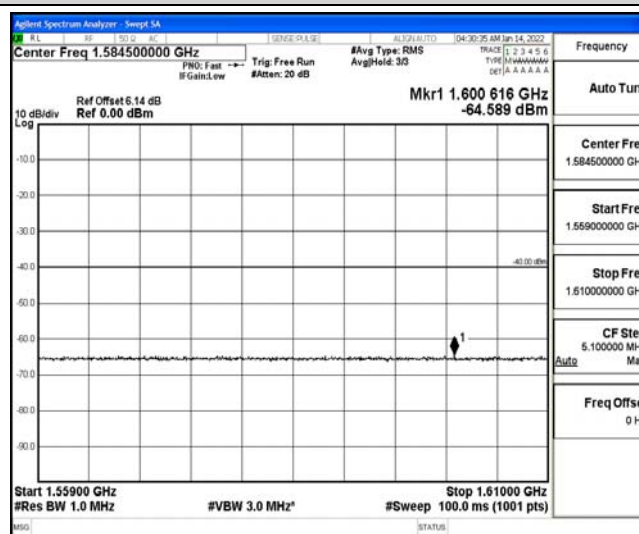
Band13-5MHz-QPSK-23205-1RB#0-Range6:793~805MHz



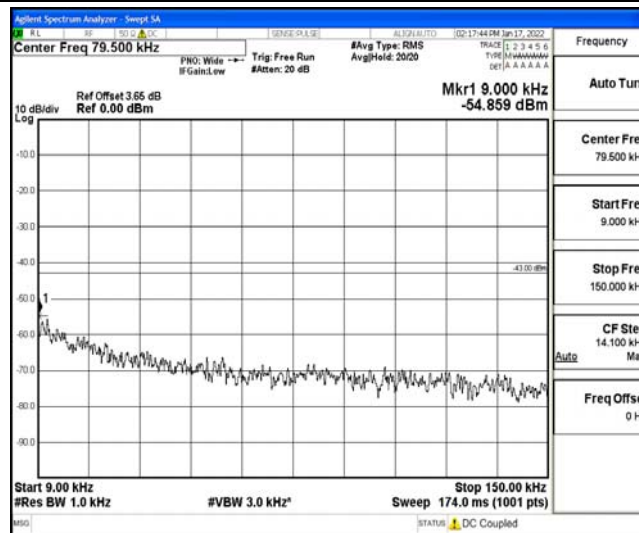
Band13-5MHz-QPSK-23205-1RB#0-Range4:1000~10000MHz



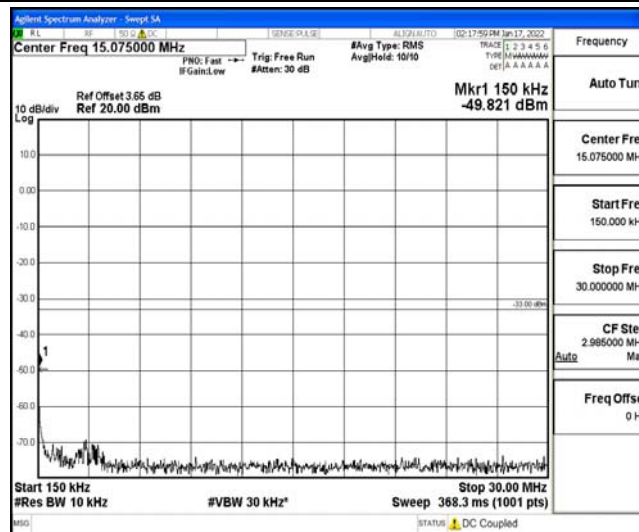
Band13-5MHz-QPSK-23205-1RB#0-Range7:1559~1610MHz



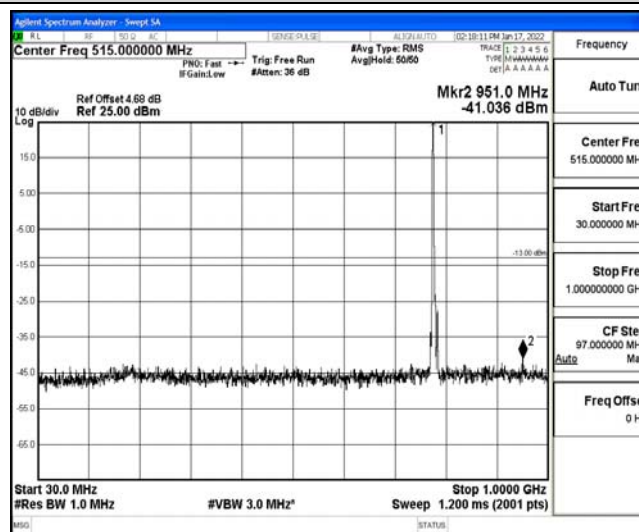
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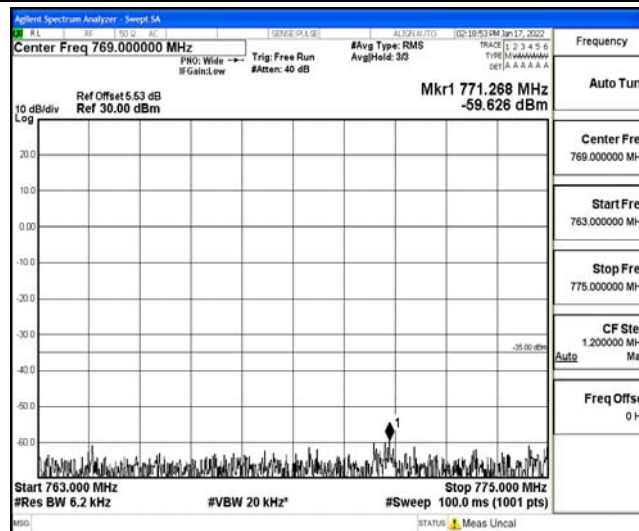
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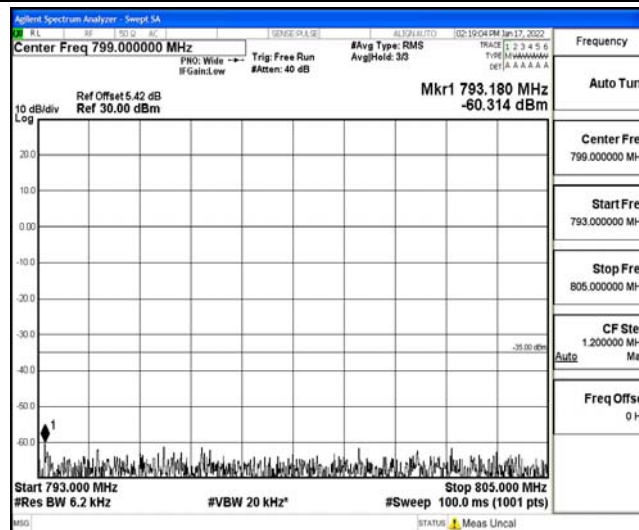
Band13-5MHz-QPSK-23230-1RB#0-Range3:30~1000MHz



Band13-5MHz-QPSK-23230-1RB#0-Range5:763~775MHz



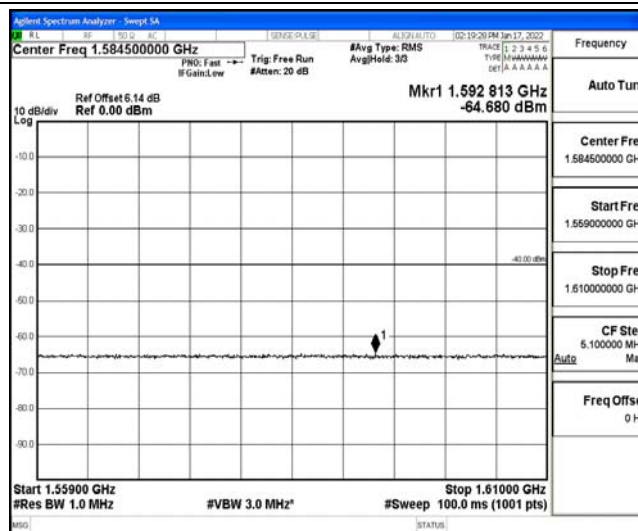
Band13-5MHz-QPSK-23230-1RB#0-Range6:793~805MHz



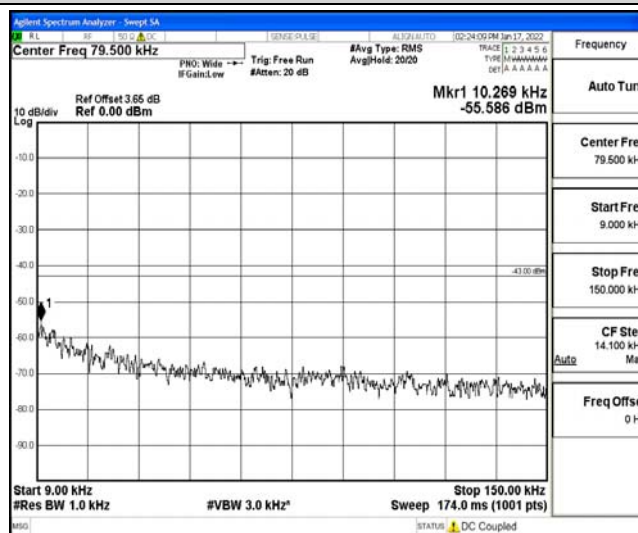
Band13-5MHz-QPSK-23230-1RB#0-Range4:1000~10000MHz



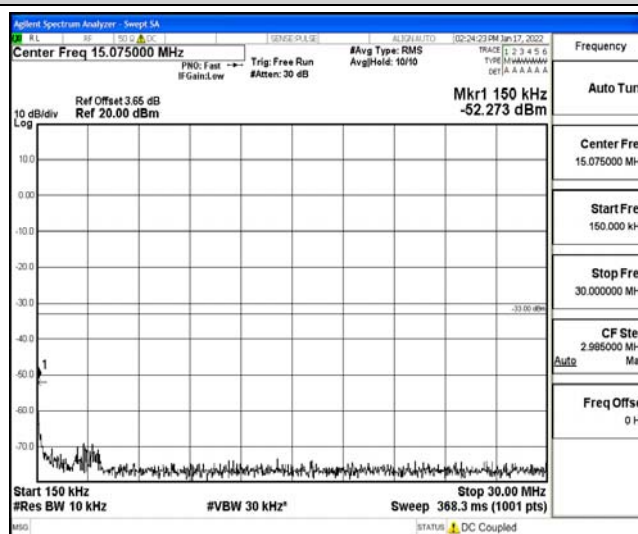
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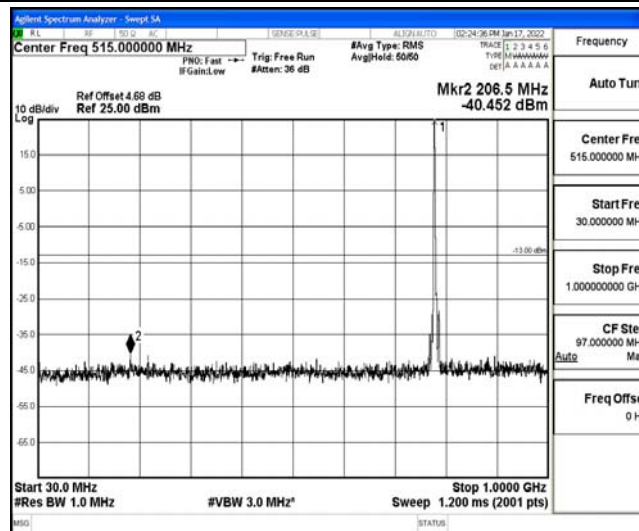
Band13-5MHz-QPSK-23255-1RB#0-Range1:0.009~0.15MHz



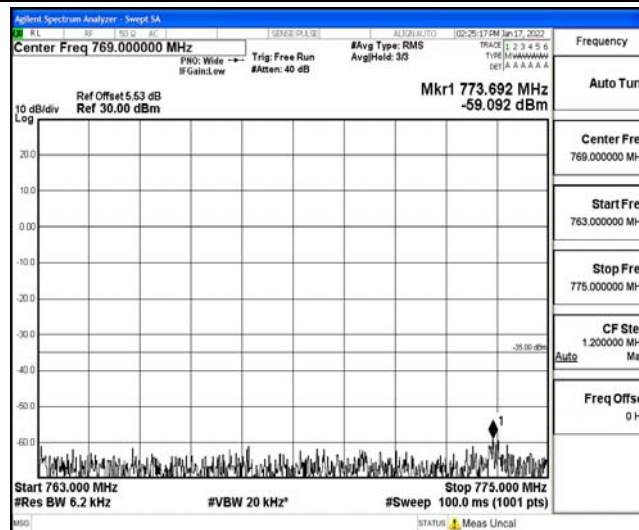
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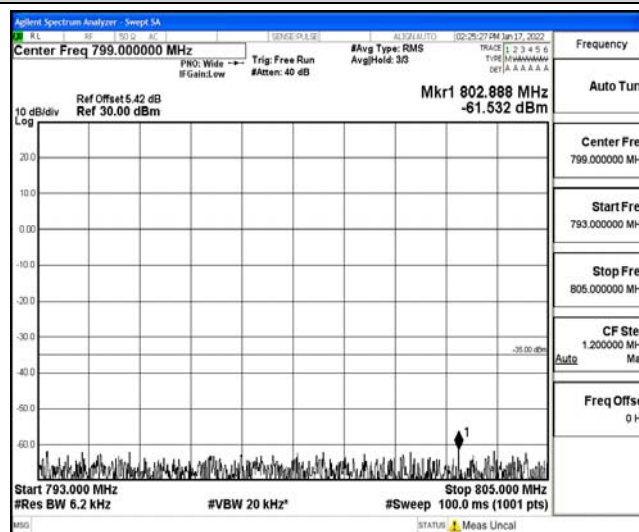
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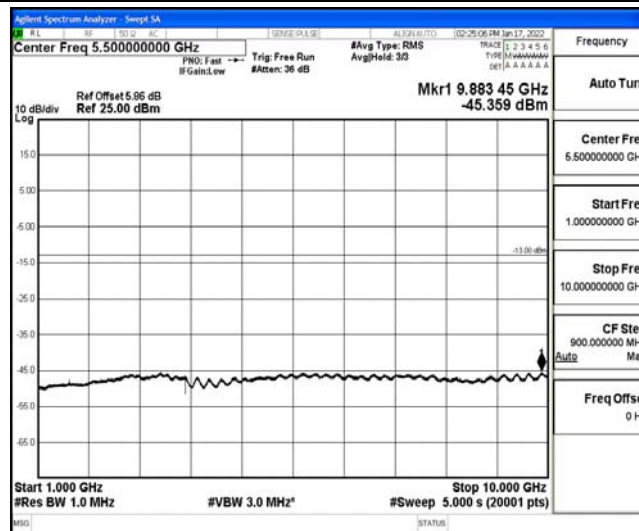
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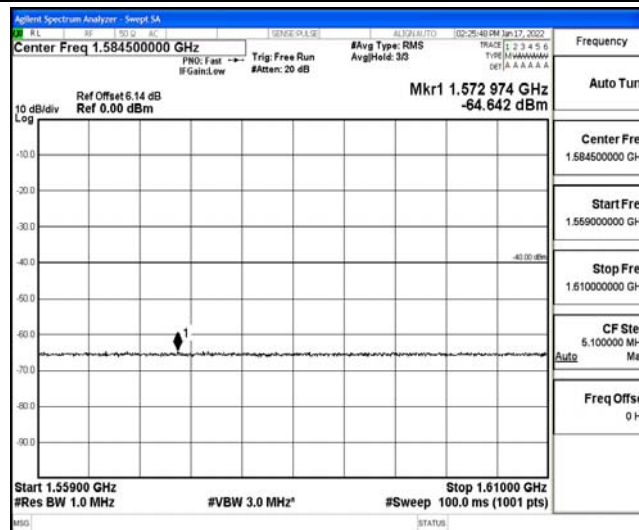
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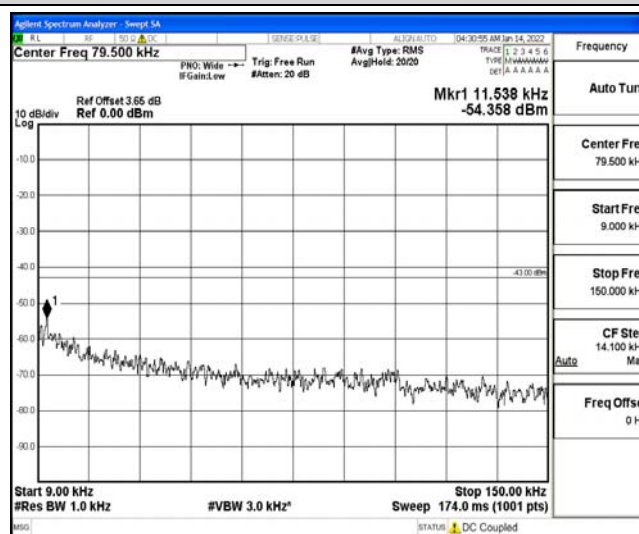
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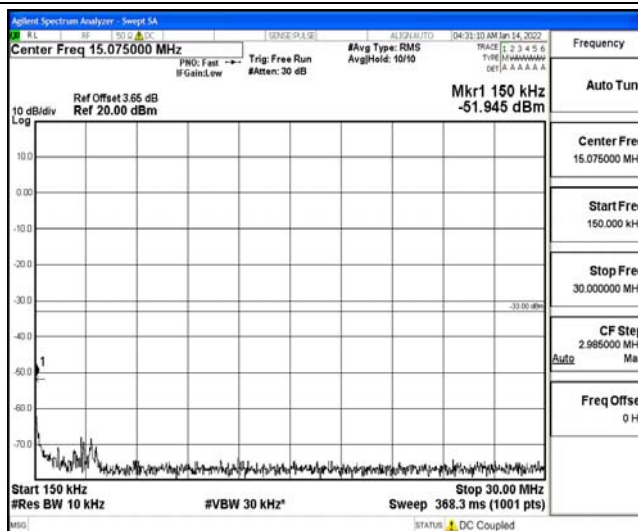
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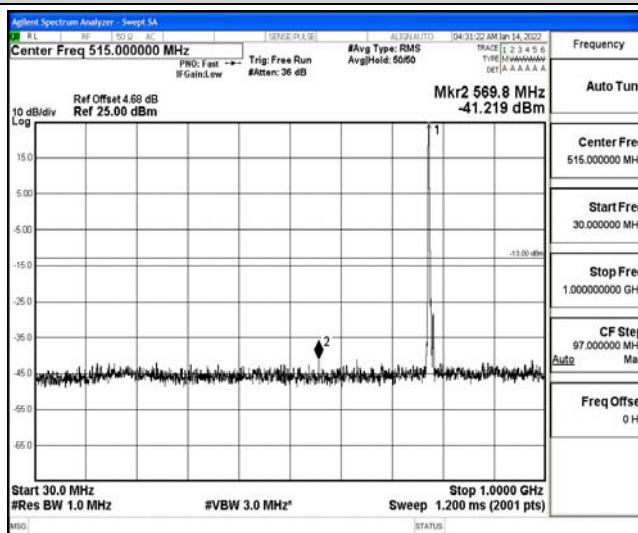
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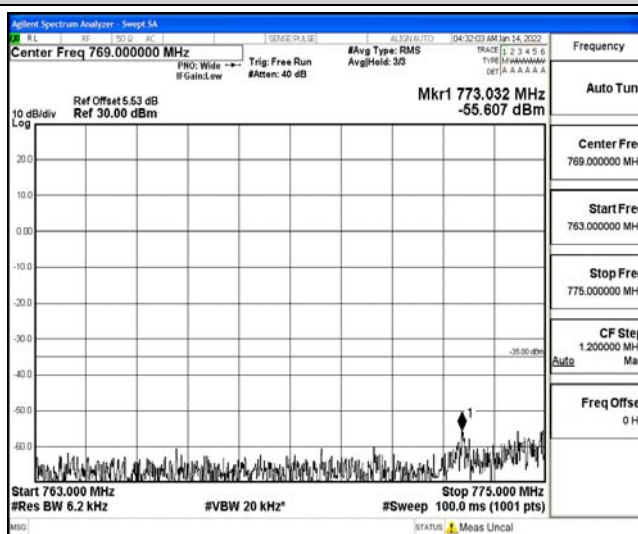
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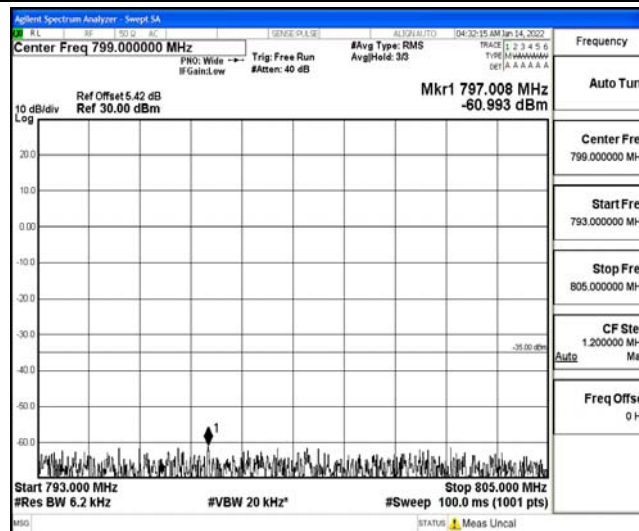
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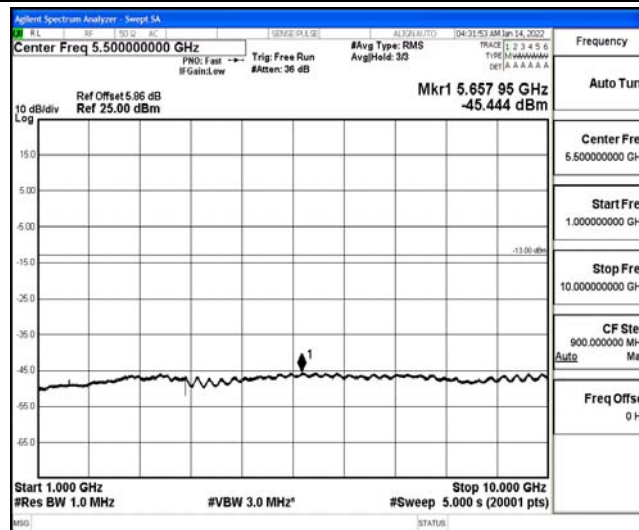
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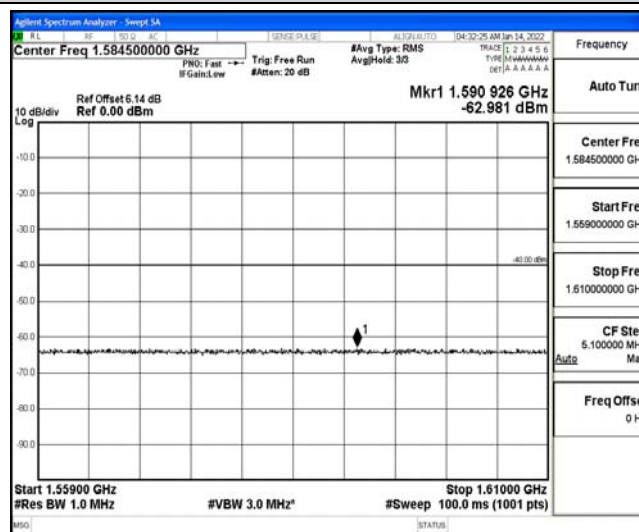
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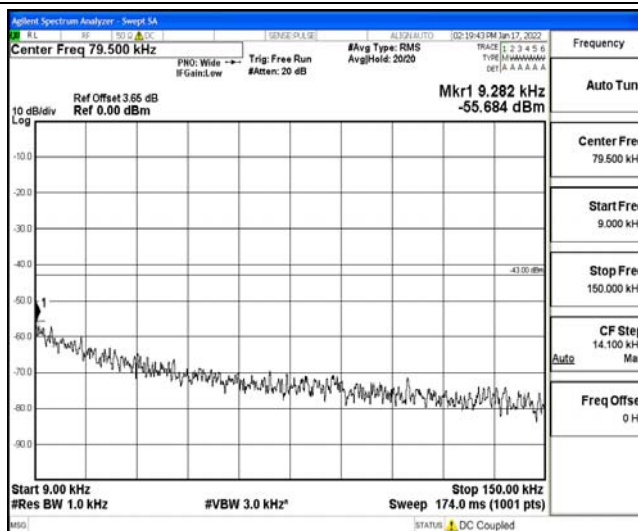
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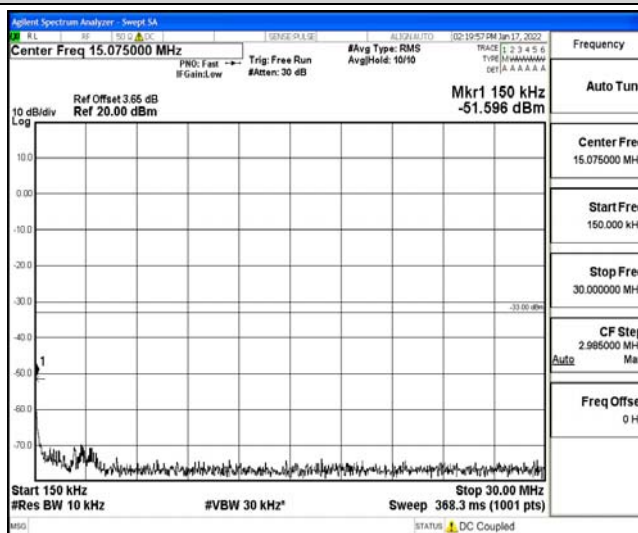
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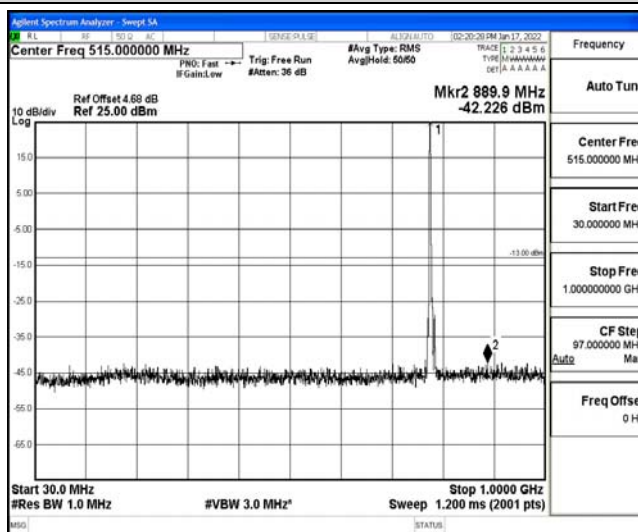
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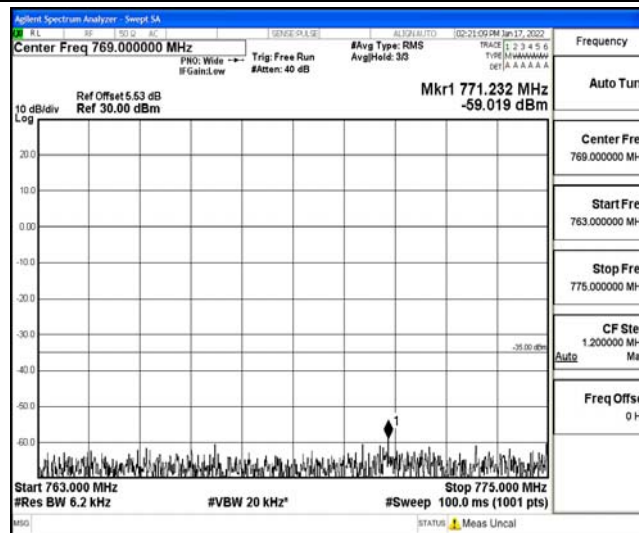
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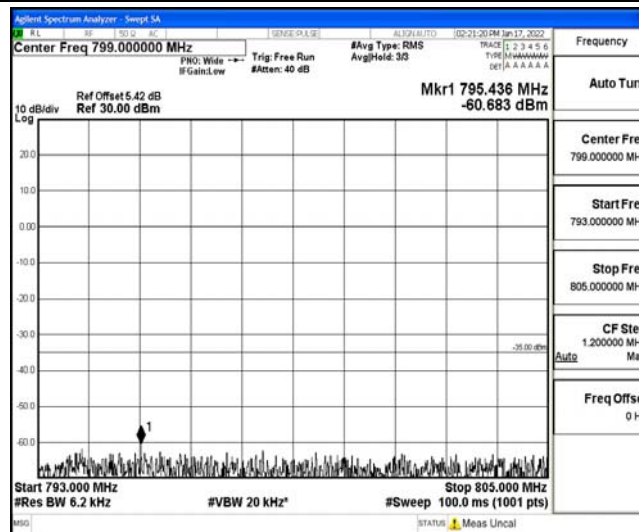
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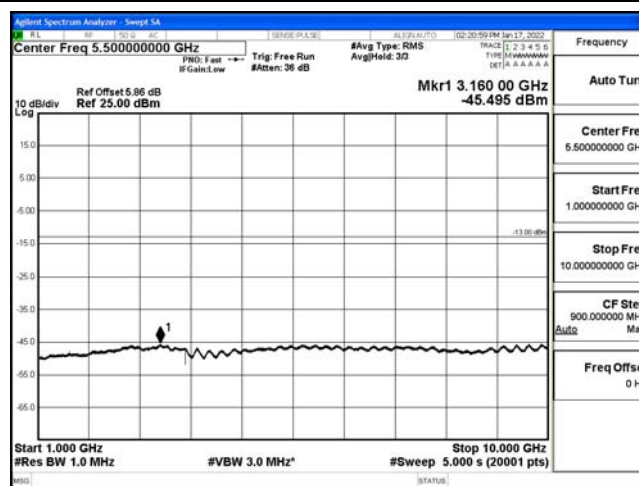
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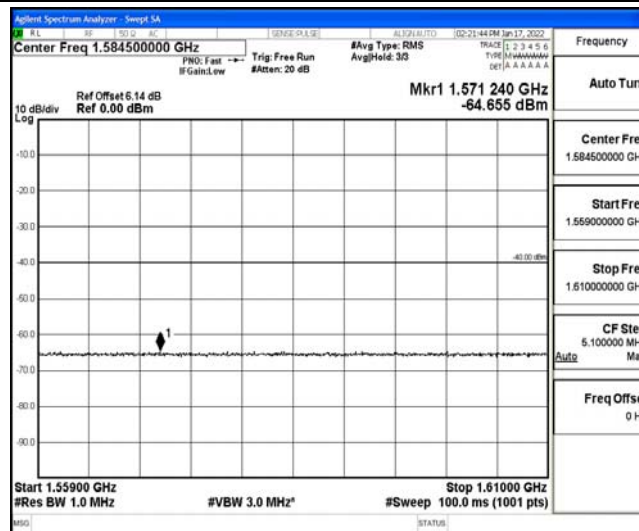
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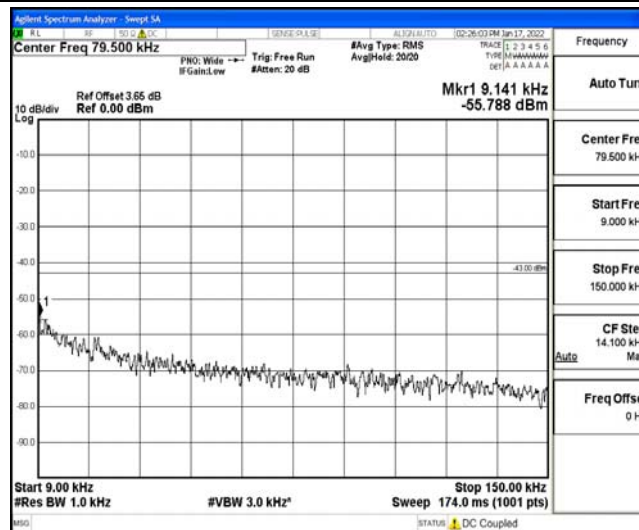
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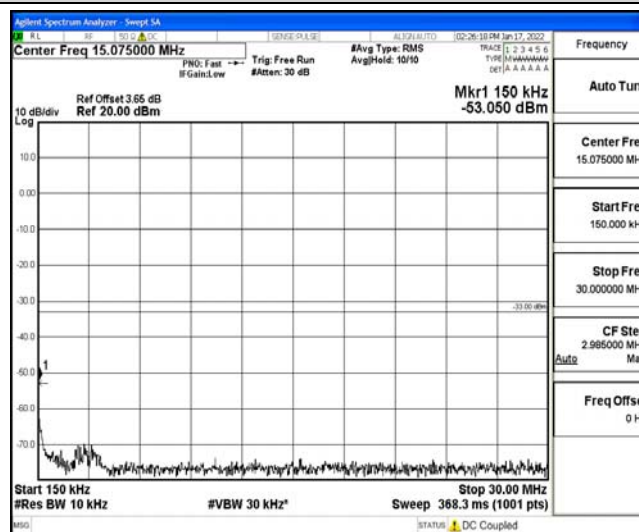
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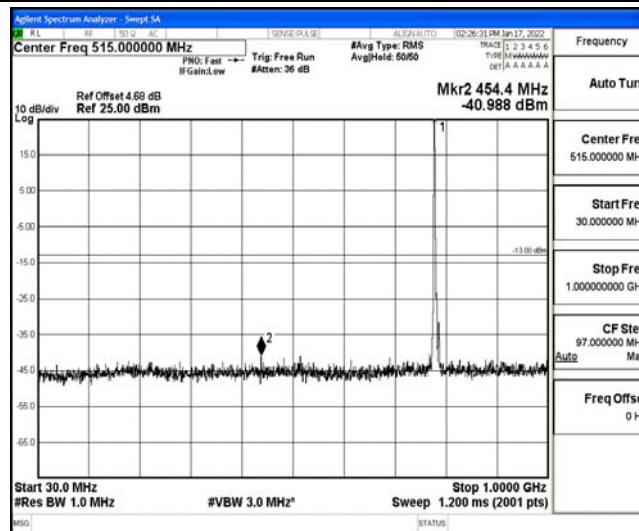
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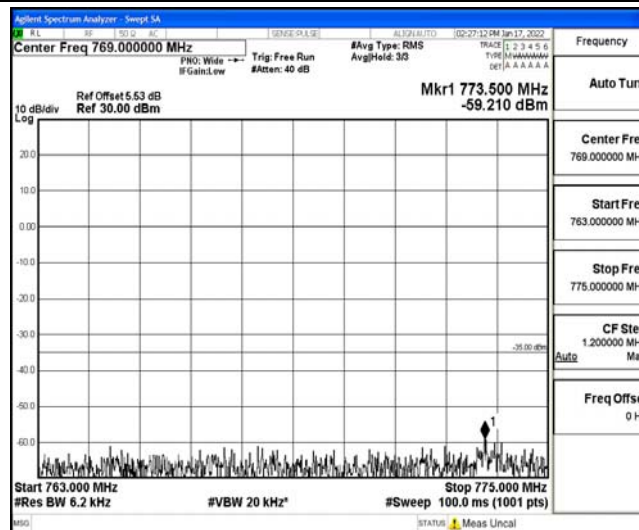
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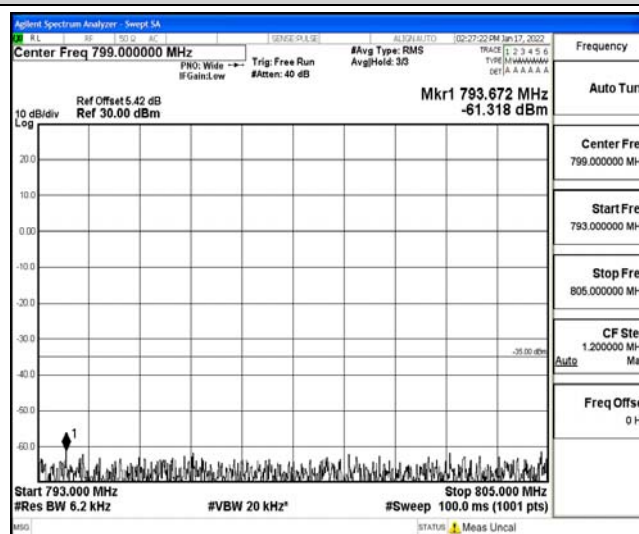
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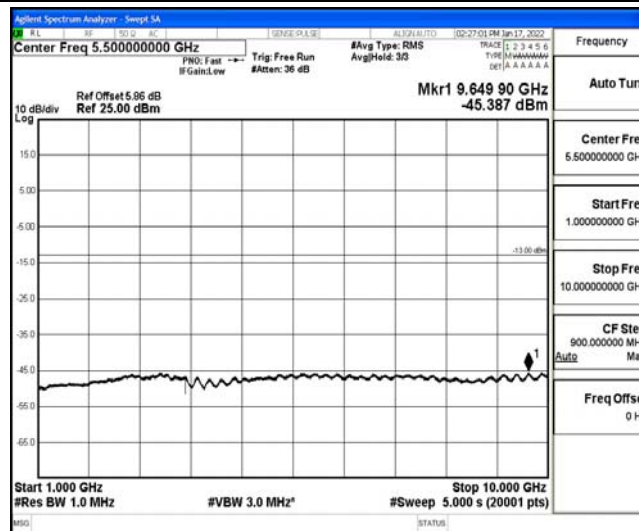
Band13-5MHz-16QAM-23255-1RB#0-Range5:763~775MHz



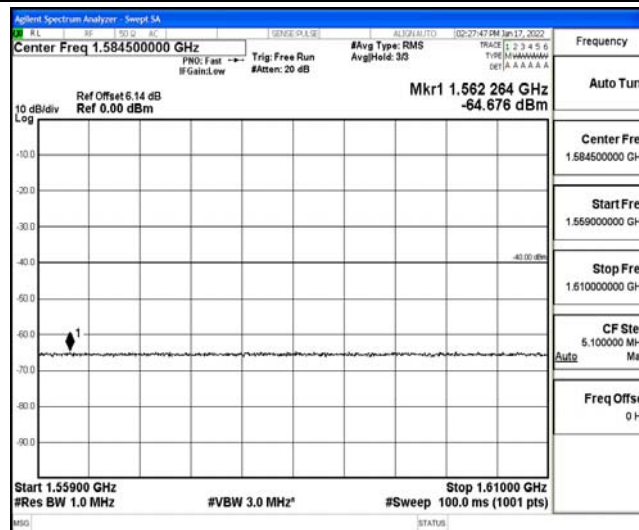
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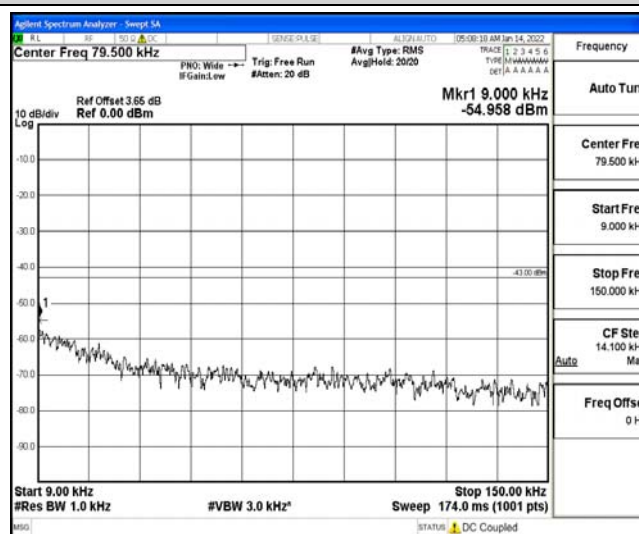
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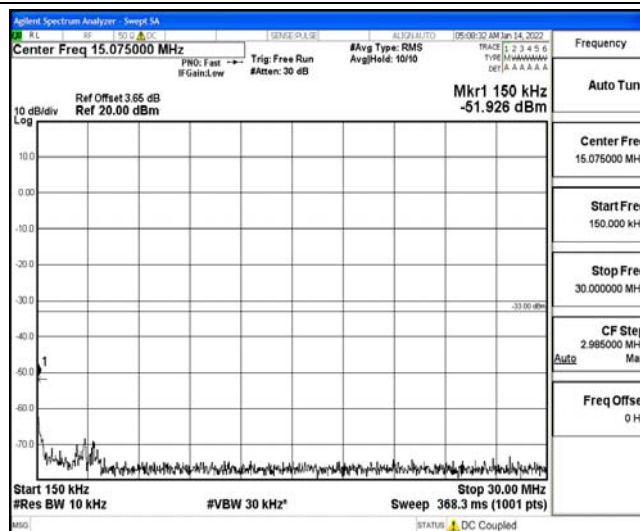
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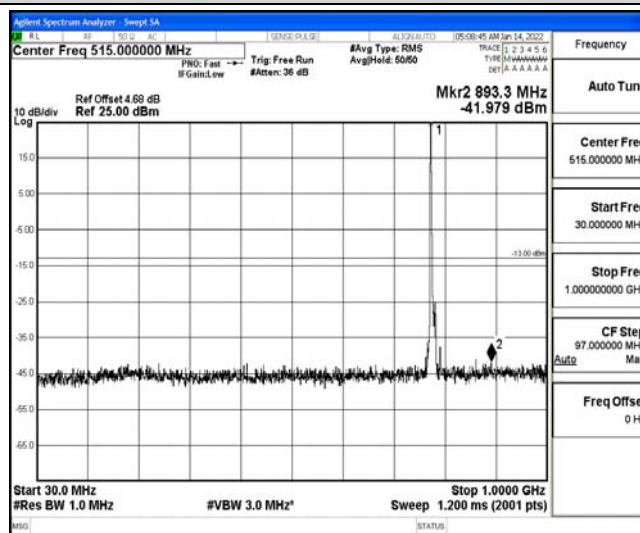
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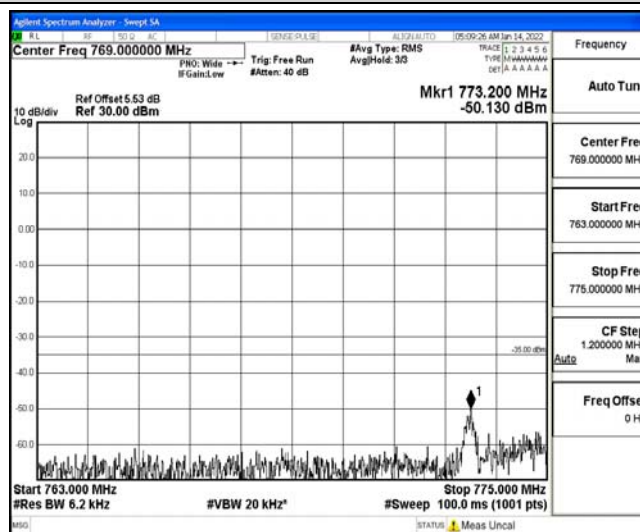
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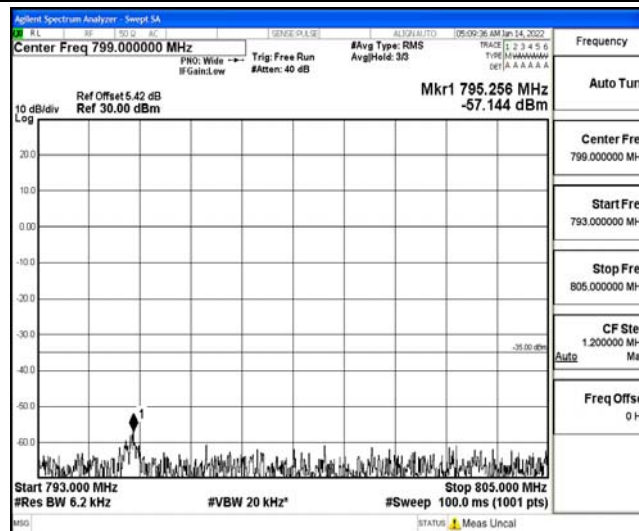
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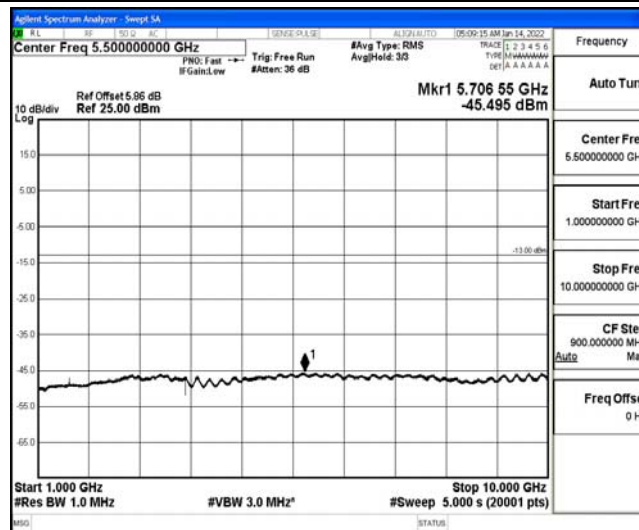
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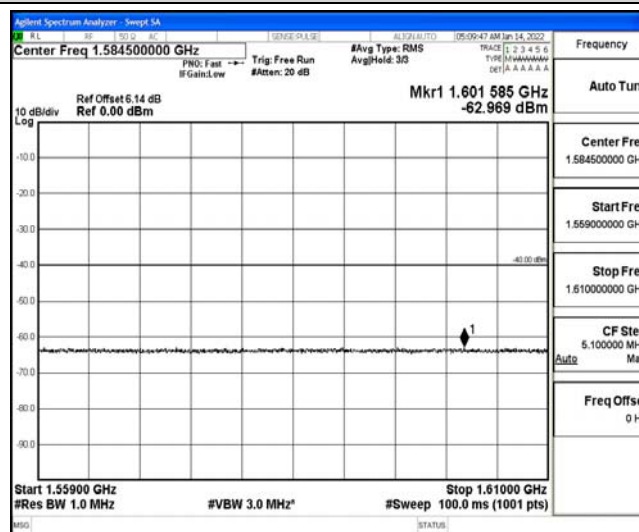
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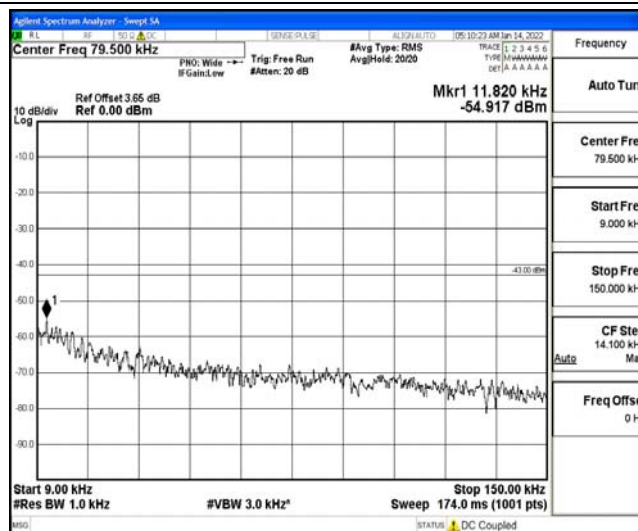
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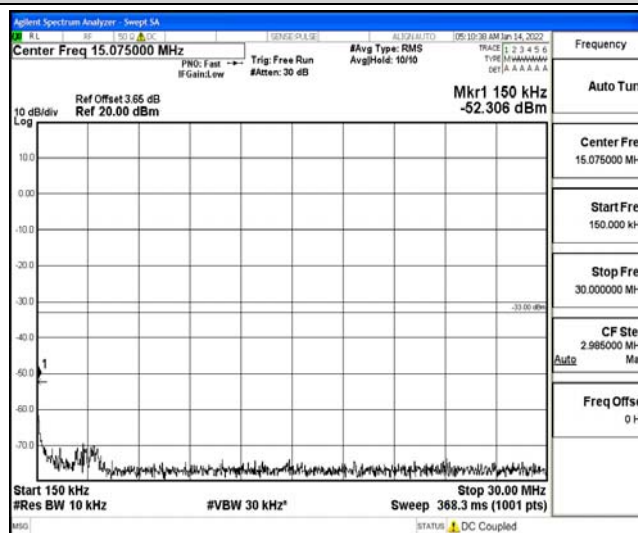
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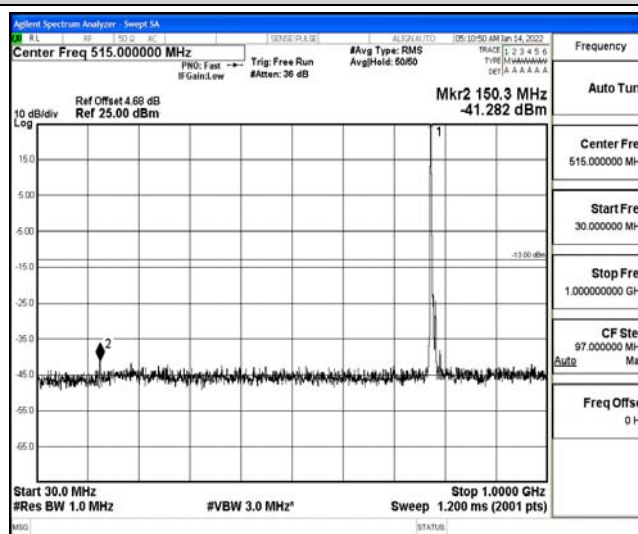
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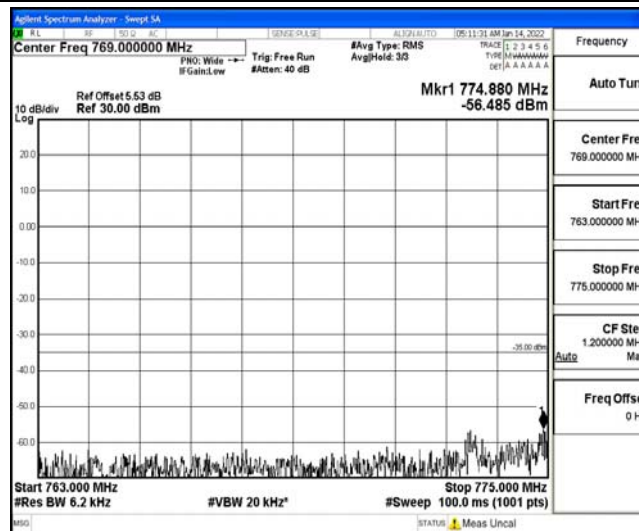
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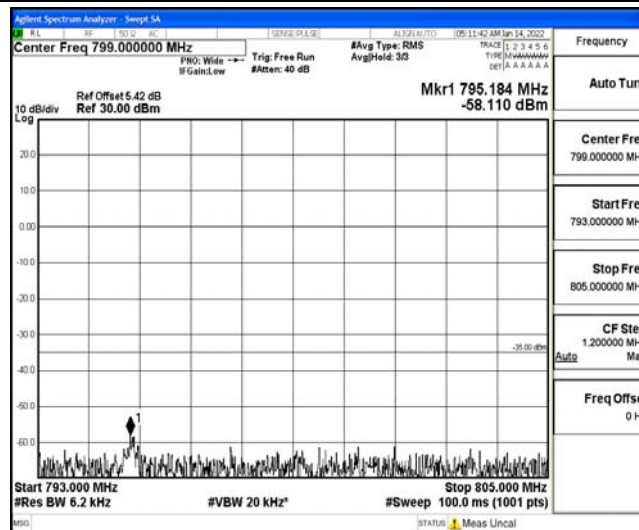
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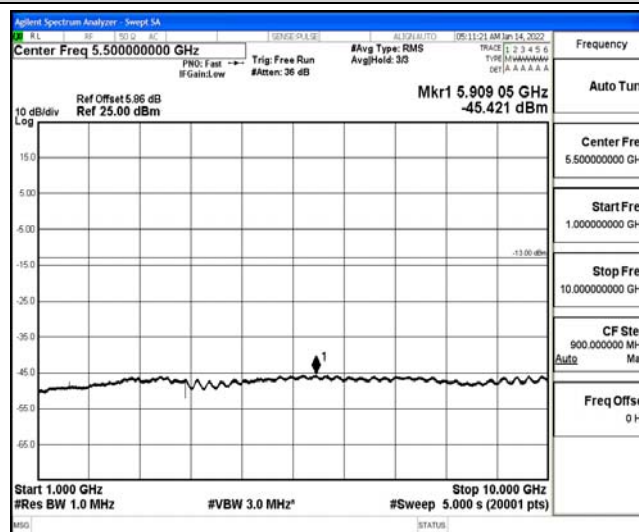
Band13-10MHz-16QAM-23230-1RB#0-Range5:763~775MHz



Band13-10MHz-16QAM-23230-1RB#0-Range6:793~805MHz



Band13-10MHz-16QAM-23230-1RB#0-Range4:1000~10000MHz



Band13-10MHz-16QAM-23230-1RB#0-Range7:1559~1610MHz

