Appendix K: Test Data for E-UTRA Band 13

Product Name: Optical projector
Trade Mark: CINEMOOD
Test Model: CNMD0020

Environmental Conditions

Temperature:	24.6° C
Relative Humidity:	54.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Ken He
Supervised by:	Li Huan

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K.1 Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	23.23	PASS
Band13	5MHz	QPSK	23205	1RB#12	23.41	PASS
Band13	5MHz	QPSK	23205	1RB#24	23.18	PASS
Band13	5MHz	QPSK	23205	12RB#0	22.45	PASS
Band13	5MHz	QPSK	23205	12RB#6	22.53	PASS
Band13	5MHz	QPSK	23205	12RB#13	22.42	PASS
Band13	5MHz	QPSK	23205	25RB#0	22.46	PASS
Band13	5MHz	QPSK	23230	1RB#0	23.27	PASS
Band13	5MHz	QPSK	23230	1RB#12	23.56	PASS
Band13	5MHz	QPSK	23230	1RB#24	23.34	PASS
Band13	5MHz	QPSK	23230	12RB#0	22.46	PASS
Band13	5MHz	QPSK	23230	12RB#6	22.49	PASS
Band13	5MHz	QPSK	23230	12RB#13	22.59	PASS
Band13	5MHz	QPSK	23230	25RB#0	22.47	PASS
Band13	5MHz	QPSK	23255	1RB#0	23.46	PASS
Band13	5MHz	QPSK	23255	1RB#12	23.63	PASS
Band13	5MHz	QPSK	23255	1RB#24	23.69	PASS
Band13	5MHz	QPSK	23255	12RB#0	22.47	PASS
Band13	5MHz	QPSK	23255	12RB#6	22.53	PASS
Band13	5MHz	QPSK	23255	12RB#13	22.56	PASS
Band13	5MHz	QPSK	23255	25RB#0	22.57	PASS
Band13	5MHz	16QAM	23205	1RB#0	22.36	PASS
Band13	5MHz	16QAM	23205	1RB#12	22.03	PASS
Band13	5MHz	16QAM	23205	1RB#24	21.73	PASS
Band13	5MHz	16QAM	23205	12RB#0	21.37	PASS
Band13	5MHz	16QAM	23205	12RB#6	21.35	PASS
Band13	5MHz	16QAM	23205	12RB#13	21.38	PASS
Band13	5MHz	16QAM	23205	25RB#0	21.34	PASS
Band13	5MHz	16QAM	23230	1RB#0	22.42	PASS
Band13	5MHz	16QAM	23230	1RB#12	22.55	PASS
Band13	5MHz	16QAM	23230	1RB#24	22.38	PASS
Band13	5MHz	16QAM	23230	12RB#0	21.50	PASS
Band13	5MHz	16QAM	23230	12RB#6	21.54	PASS

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Band13	5MHz	16QAM	23230	12RB#13	21.64	PASS
Band13	5MHz	16QAM	23230	25RB#0	21.43	PASS
Band13	5MHz	16QAM	23255	1RB#0	22.55	PASS
Band13	5MHz	16QAM	23255	1RB#12	22.42	PASS
Band13	5MHz	16QAM	23255	1RB#24	22.62	PASS
Band13	5MHz	16QAM	23255	12RB#0	21.45	PASS
Band13	5MHz	16QAM	23255	12RB#6	21.50	PASS
Band13	5MHz	16QAM	23255	12RB#13	21.60	PASS
Band13	5MHz	16QAM	23255	25RB#0	21.57	PASS
Band13	10MHz	QPSK	23230	1RB#0	23.51	PASS
Band13	10MHz	QPSK	23230	1RB#24	23.98	PASS
Band13	10MHz	QPSK	23230	1RB#49	23.84	PASS
Band13	10MHz	QPSK	23230	25RB#0	22.71	PASS
Band13	10MHz	QPSK	23230	25RB#12	22.75	PASS
Band13	10MHz	QPSK	23230	25RB#25	22.92	PASS
Band13	10MHz	QPSK	23230	50RB#0	22.73	PASS
Band13	10MHz	16QAM	23230	1RB#0	22.37	PASS
Band13	10MHz	16QAM	23230	1RB#24	22.89	PASS
Band13	10MHz	16QAM	23230	1RB#49	22.75	PASS
Band13	10MHz	16QAM	23230	25RB#0	21.70	PASS
Band13	10MHz	16QAM	23230	25RB#12	21.63	PASS
Band13	10MHz	16QAM	23230	25RB#25	21.78	PASS
Band13	10MHz	16QAM	23230	50RB#0	21.61	PASS

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

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	4.07	13	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.37	13	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.35	13	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.96	13	PASS
Band13	5MHz	16QAM	23230	25RB#0	5.28	13	PASS
Band13	5MHz	16QAM	23255	25RB#0	5.33	13	PASS
Band13	10MHz	QPSK	23230	50RB#0	4.22	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	5.18	13	PASS

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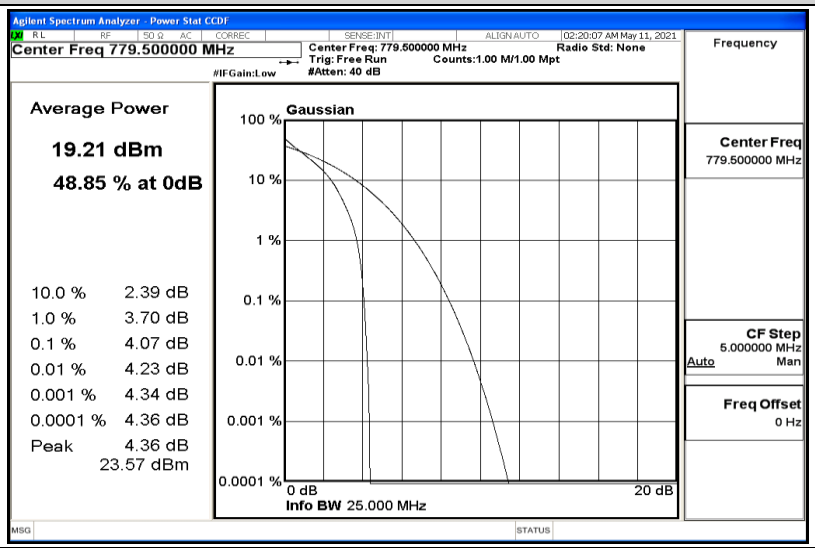
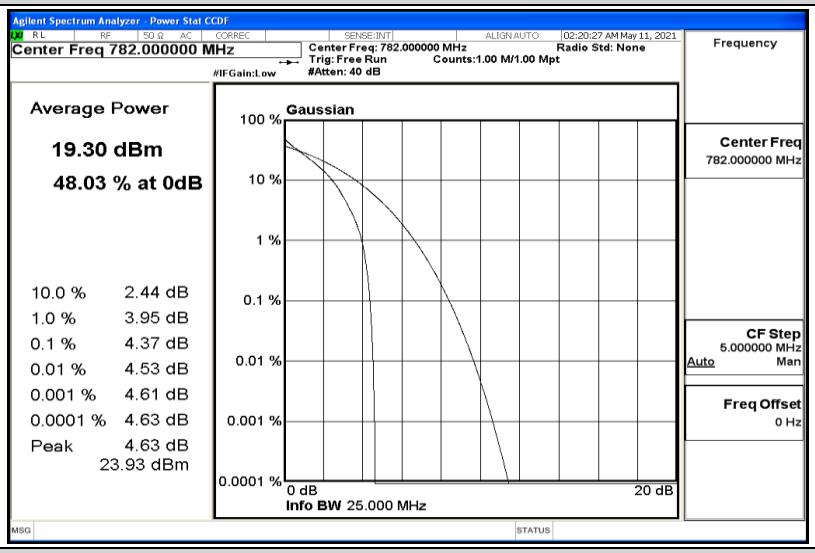
Test Graphs

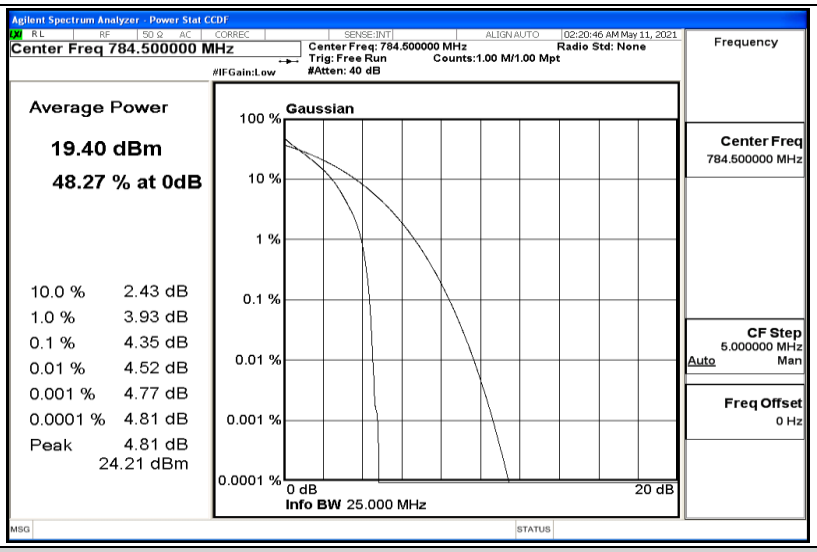
Band13-5MHz-QPSK-23205-25RB#0



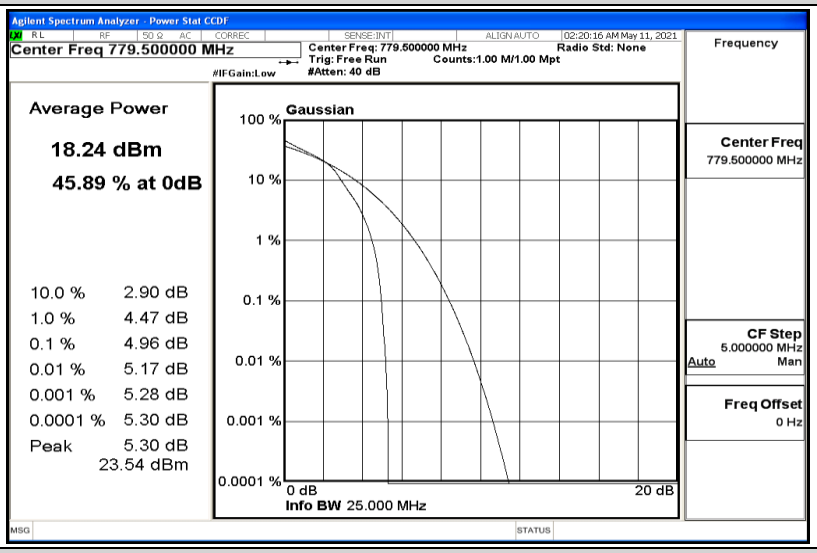
Band13-5MHz-QPSK-23230-25RB#0



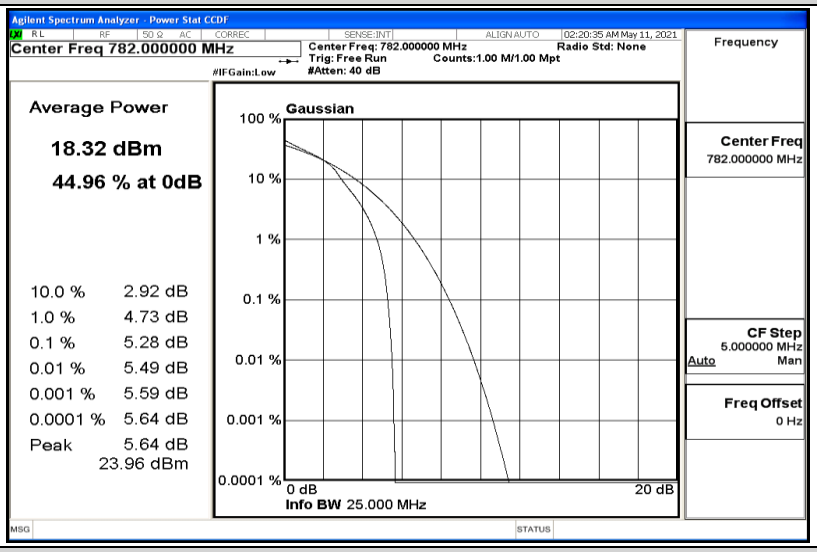
Band13-5MHz-QPSK-23255-25RB#0



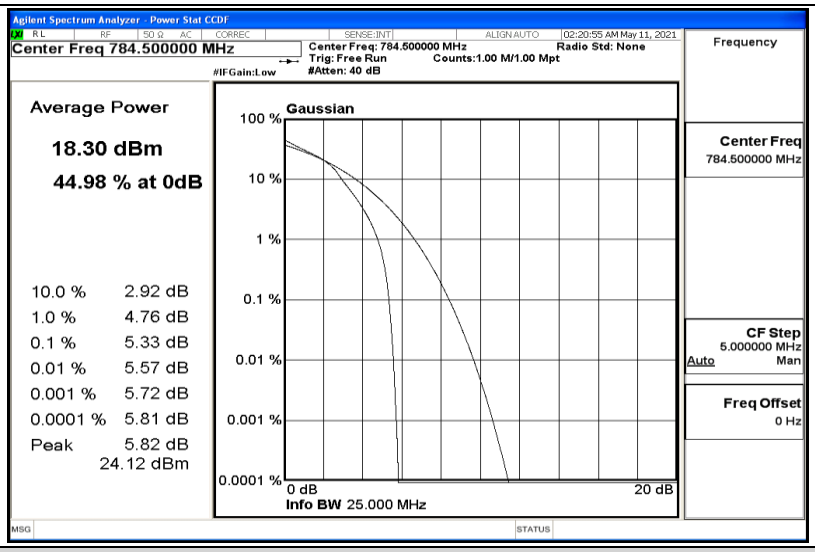
Band13-5MHz-16QAM-23205-25RB#0



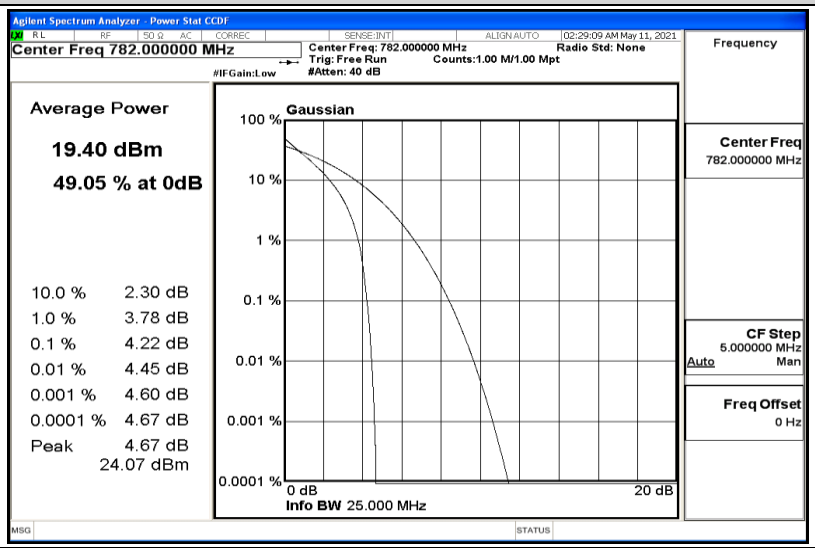
Band13-5MHz-16QAM-23230-25RB#0



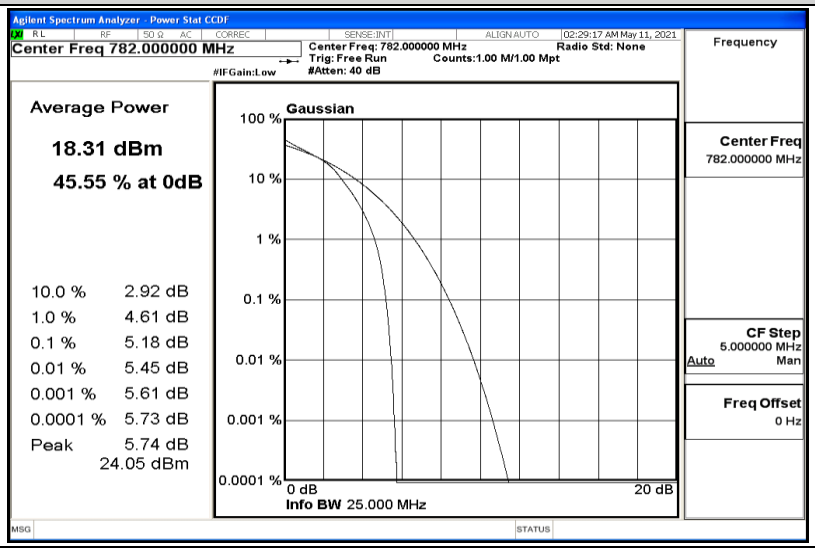
Band13-5MHz-16QAM-23255-25RB#0



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



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



K.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	4.4962	4.880	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.5010	4.865	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.5014	4.893	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.5008	4.917	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.5062	4.836	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.5007	4.907	PASS
Band13	10MHz	QPSK	23230	50RB#0	8.9604	9.573	PASS
Band13	10MHz	16QAM	23230	50RB#0	8.9538	9.555	PASS

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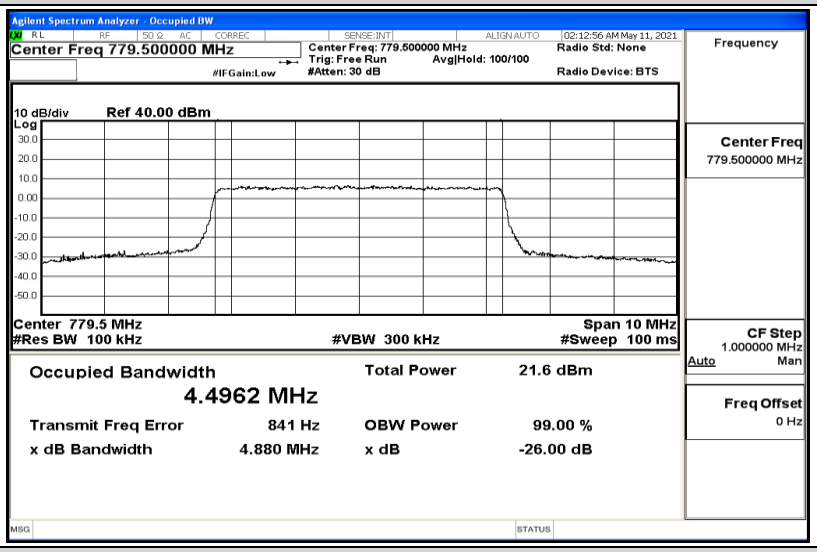
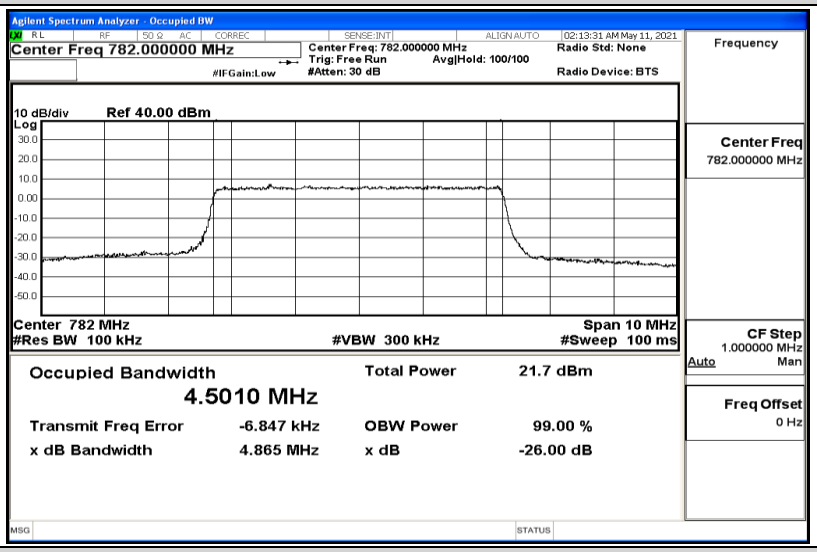
Test Graphs

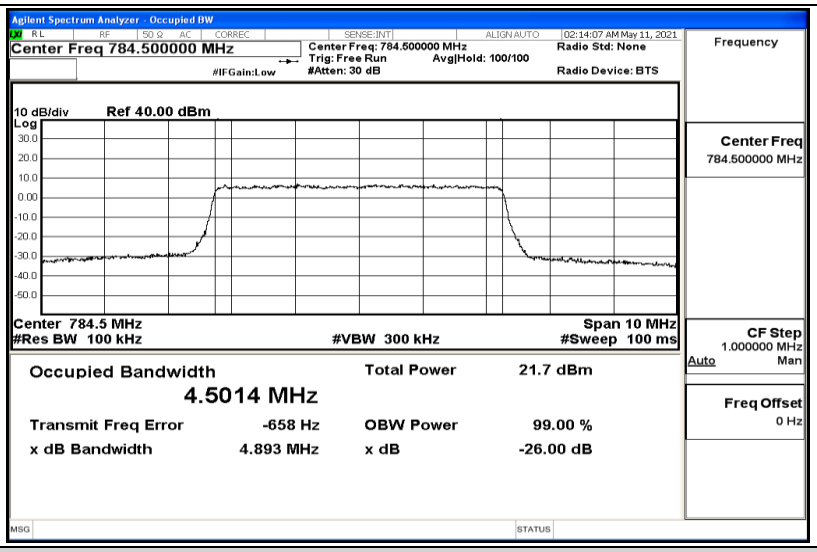
Band13-5MHz-QPSK-23205-25RB#0-4.4962



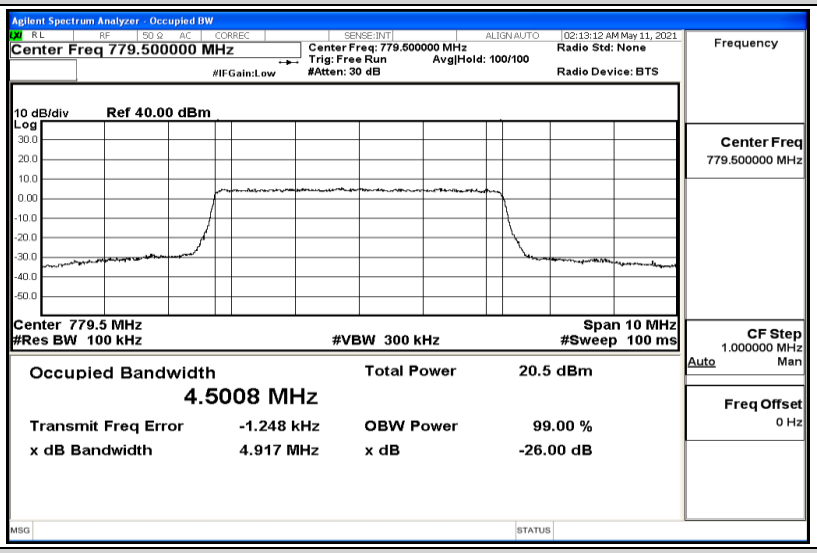
Band13-5MHz-QPSK-23230-25RB#0-4.5010



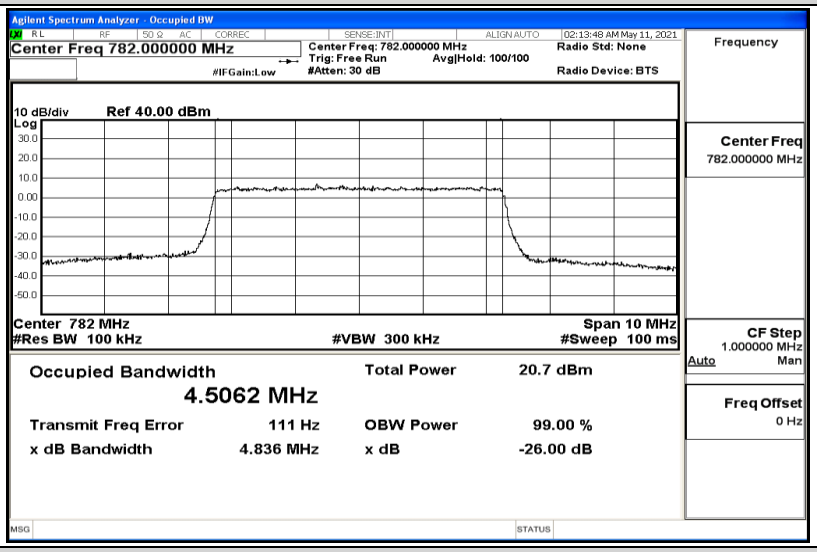
Band13-5MHz-QPSK-23255-25RB#0-4.5014



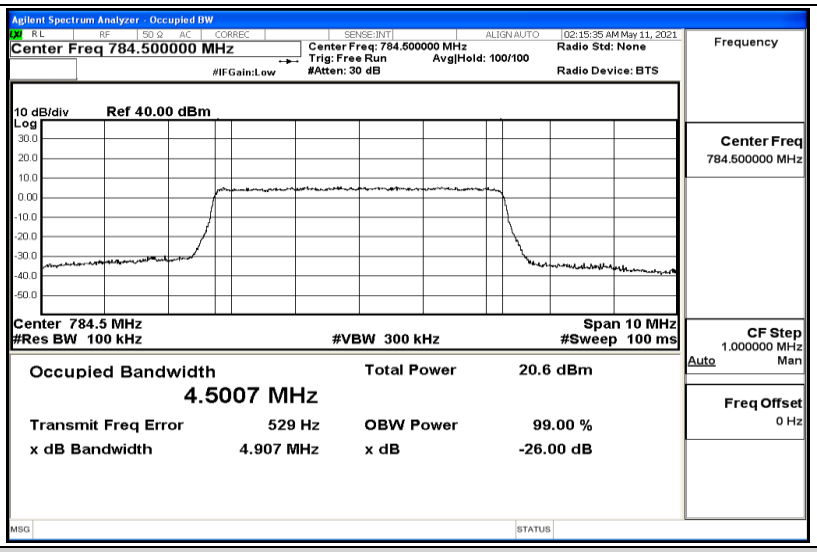
Band13-5MHz-16QAM-23205-25RB#0-4.5008



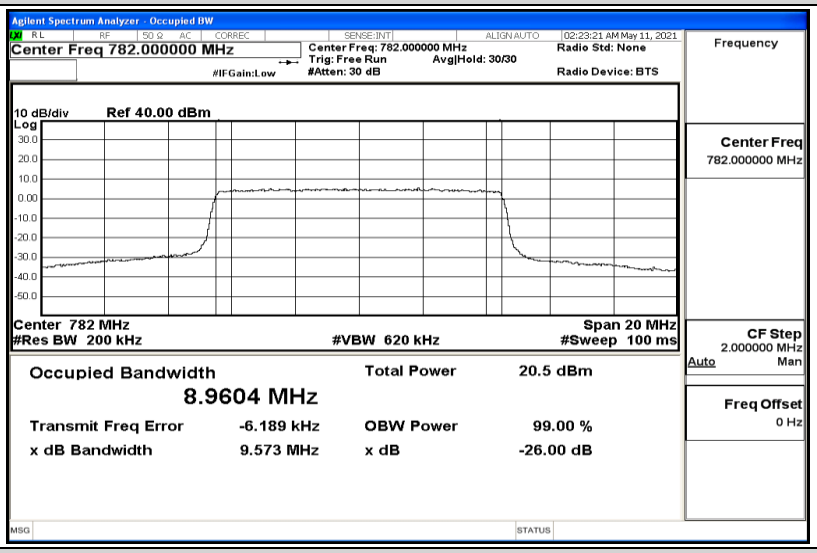
Band13-5MHz-16QAM-23230-25RB#0-4.5062



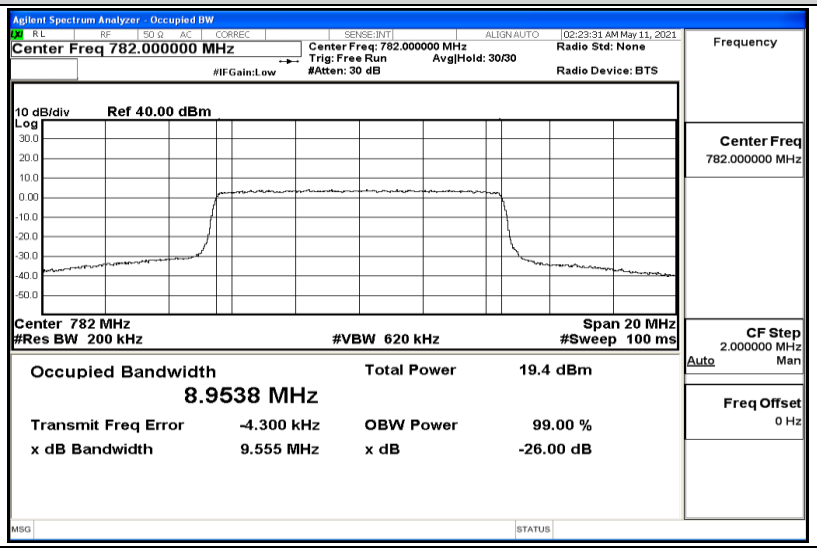
Band13-5MHz-16QAM-23255-25RB#0-4.5007



Band13-10MHz-QPSK-23230-50RB#0-8.9604



Band13-10MHz-16QAM-23230-50RB#0-8.9538



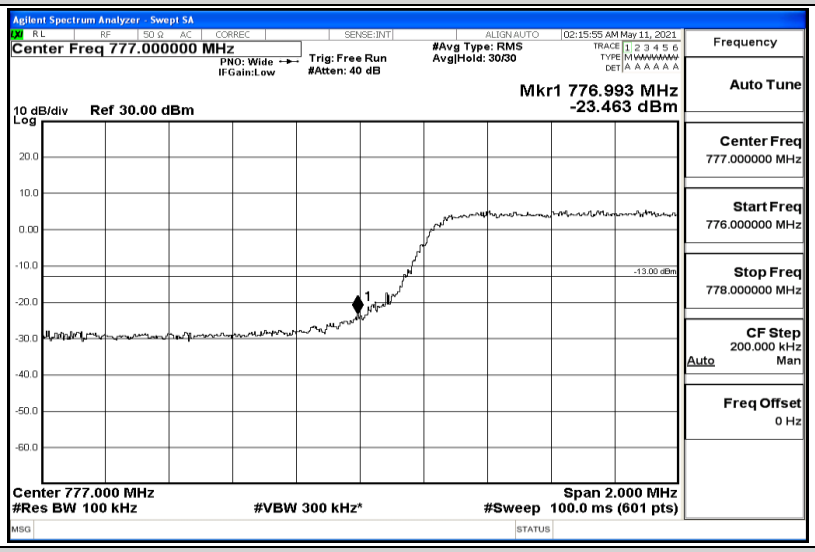
K.4 Band Edge

Test Result

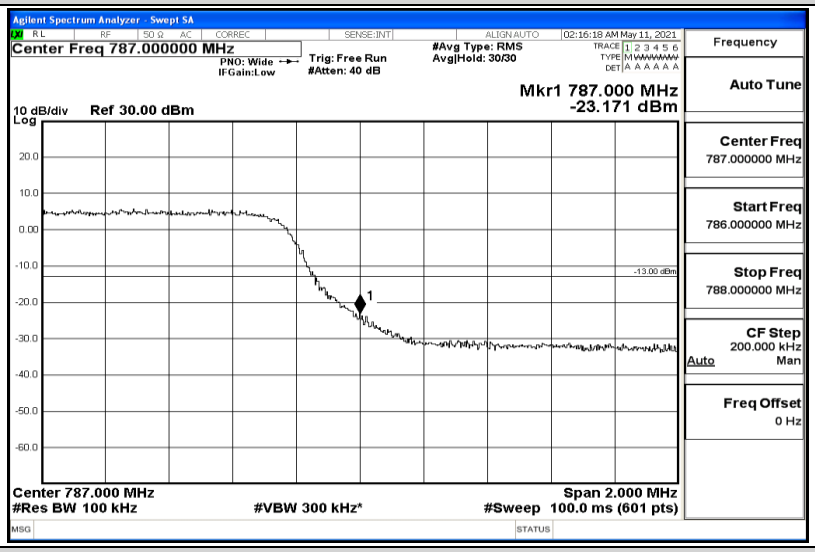
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	-23.46	PASS
Band13	5MHz	QPSK	23255	25RB#0	-23.17	PASS
Band13	5MHz	16QAM	23205	25RB#0	-24.73	PASS
Band13	5MHz	16QAM	23255	25RB#0	-25.39	PASS

Test Graphs

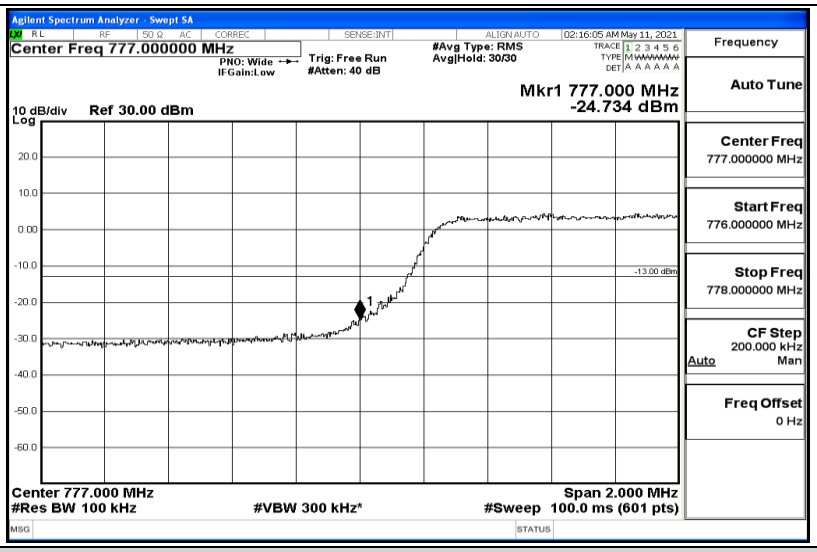
Band13-5MHz-QPSK-23205-25RB#0



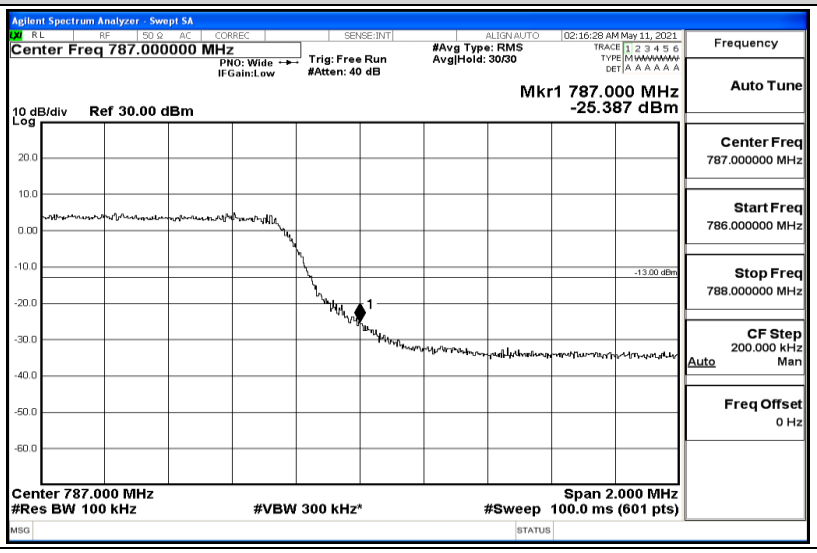
Band13-5MHz-QPSK-23255-25RB#0



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



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



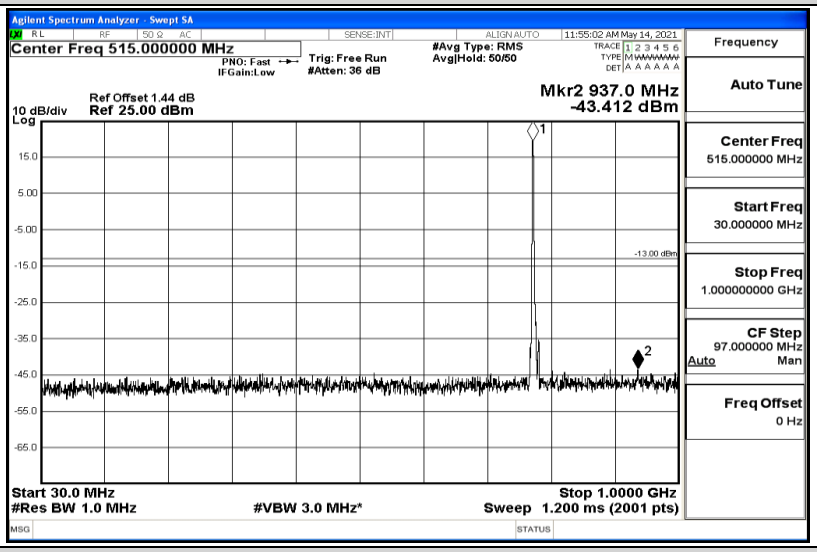
K.5 Conducted Spurious Emission

Test Result

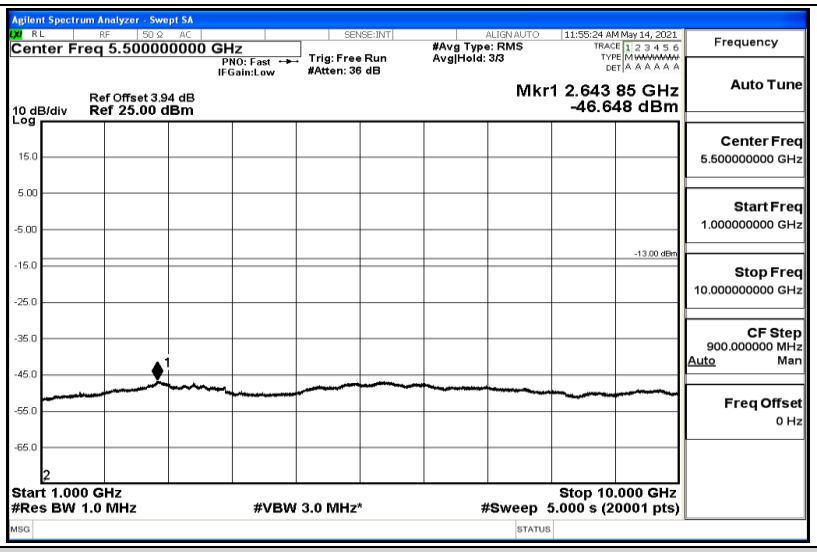
Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	Range1:30~1000MHz	-43.41	PASS
Band13	5MHz	QPSK	23205	1RB#0	Range2:1000~10000MHz	-46.65	PASS
Band13	5MHz	QPSK	23230	1RB#0	Range1:30~1000MHz	-42.88	PASS
Band13	5MHz	QPSK	23230	1RB#0	Range2:1000~10000MHz	-46.61	PASS
Band13	5MHz	QPSK	23255	1RB#0	Range1:30~1000MHz	-43.9	PASS
Band13	5MHz	QPSK	23255	1RB#0	Range2:1000~10000MHz	-46.71	PASS
Band13	5MHz	16QAM	23205	1RB#0	Range1:30~1000MHz	-44.13	PASS
Band13	5MHz	16QAM	23205	1RB#0	Range2:1000~10000MHz	-46.61	PASS
Band13	5MHz	16QAM	23230	1RB#0	Range1:30~1000MHz	-43.03	PASS
Band13	5MHz	16QAM	23230	1RB#0	Range2:1000~10000MHz	-46.54	PASS
Band13	5MHz	16QAM	23255	1RB#0	Range1:30~1000MHz	-43.91	PASS
Band13	5MHz	16QAM	23255	1RB#0	Range2:1000~10000MHz	-46.68	PASS
Band13	10MHz	QPSK	23230	1RB#0	Range1:30~1000MHz	-43.14	PASS
Band13	10MHz	QPSK	23230	1RB#0	Range2:1000~10000MHz	-46.73	PASS
Band13	10MHz	16QAM	23230	1RB#0	Range1:30~1000MHz	-43.65	PASS
Band13	10MHz	16QAM	23230	1RB#0	Range2:1000~10000MHz	-46.61	PASS

Test Graphs

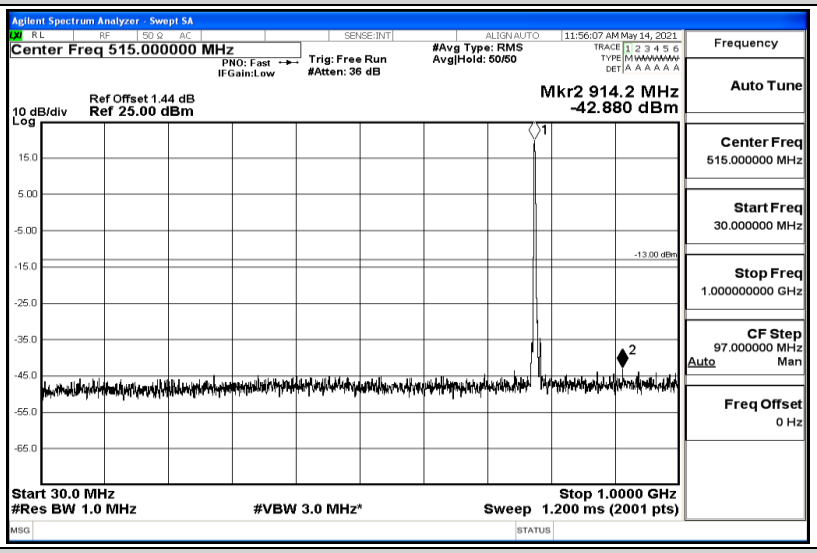
Band13-5MHz-QPSK-23205-1RB#0-Range1:30~1000MHz



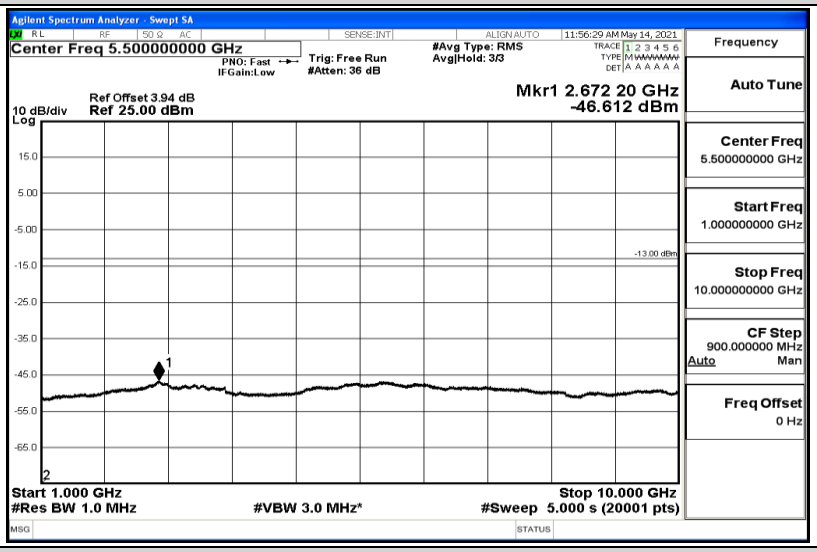
Band13-5MHz-QPSK-23205-1RB#0-Range2:1000~10000MHz



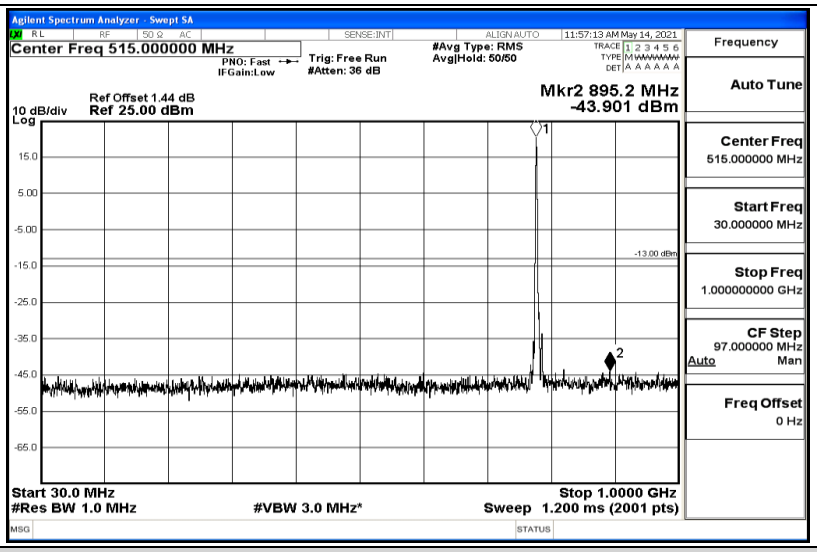
Band13-5MHz-QPSK-23230-1RB#0-Range1:30~1000MHz



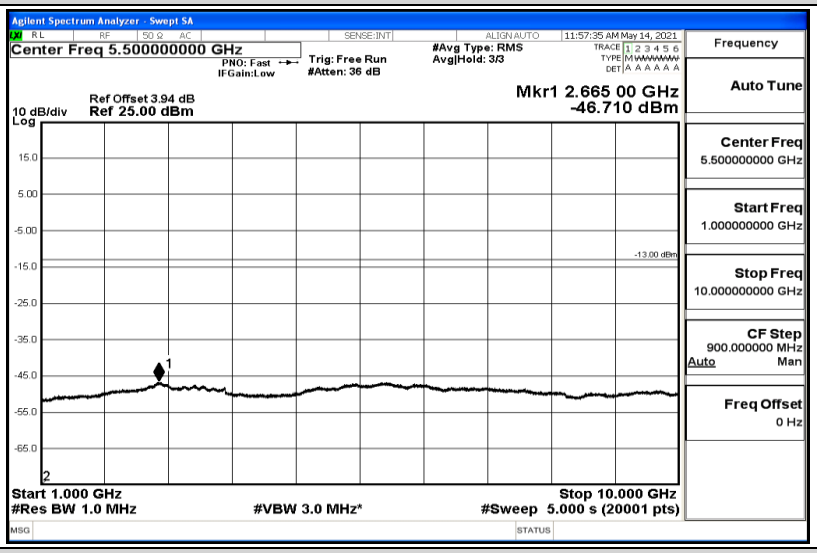
Band13-5MHz-QPSK-23230-1RB#0-Range2:1000~10000MHz



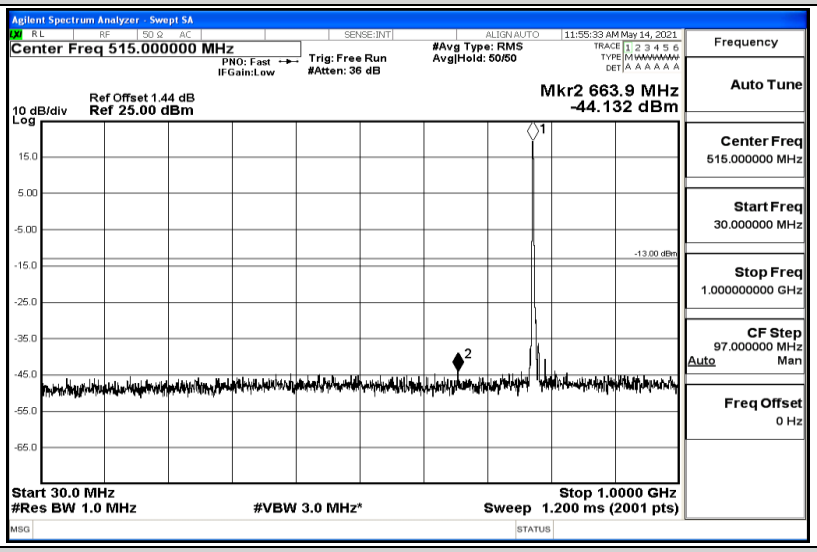
Band13-5MHz-QPSK-23255-1RB#0-Range1:30~1000MHz



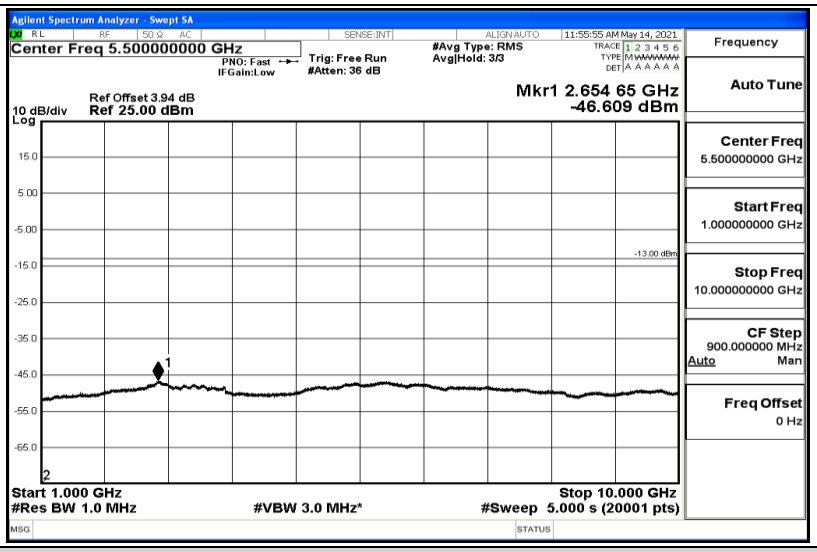
Band13-5MHz-QPSK-23255-1RB#0-Range2:1000~10000MHz



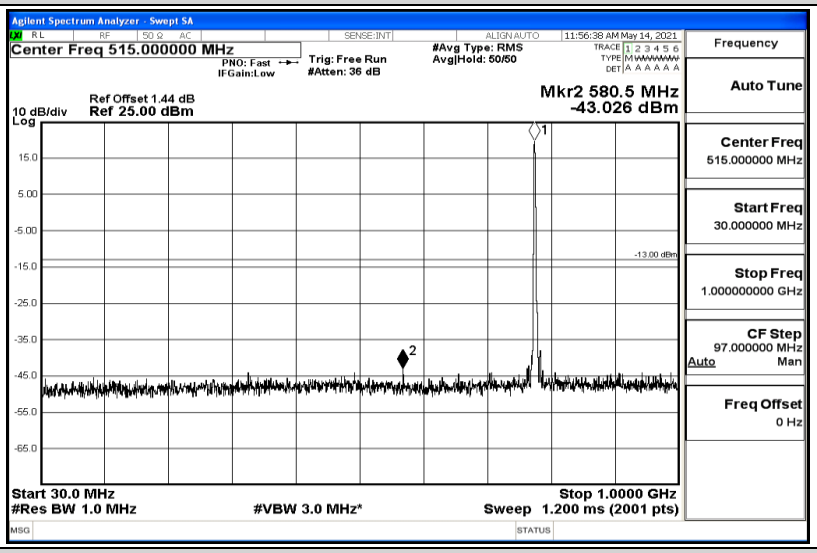
Band13-5MHz-16QAM-23205-1RB#0-Range1:30~1000MHz



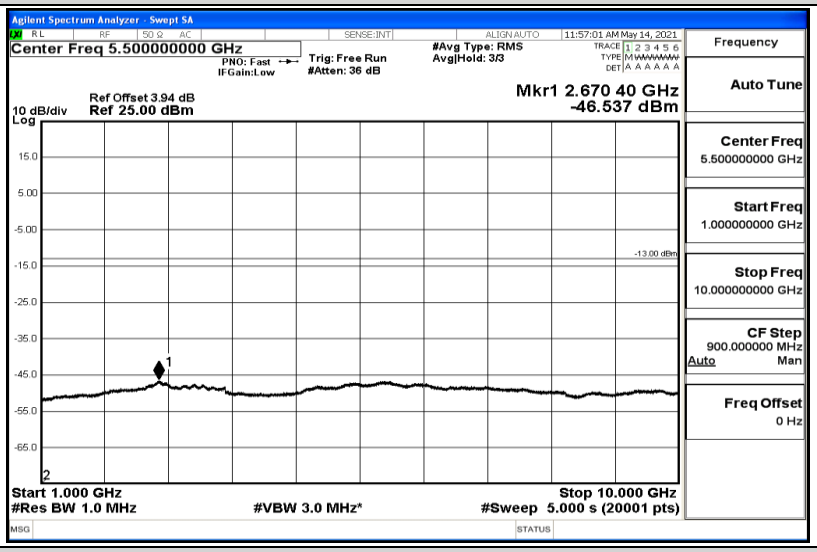
Band13-5MHz-16QAM-23205-1RB#0-Range2:1000~10000MHz



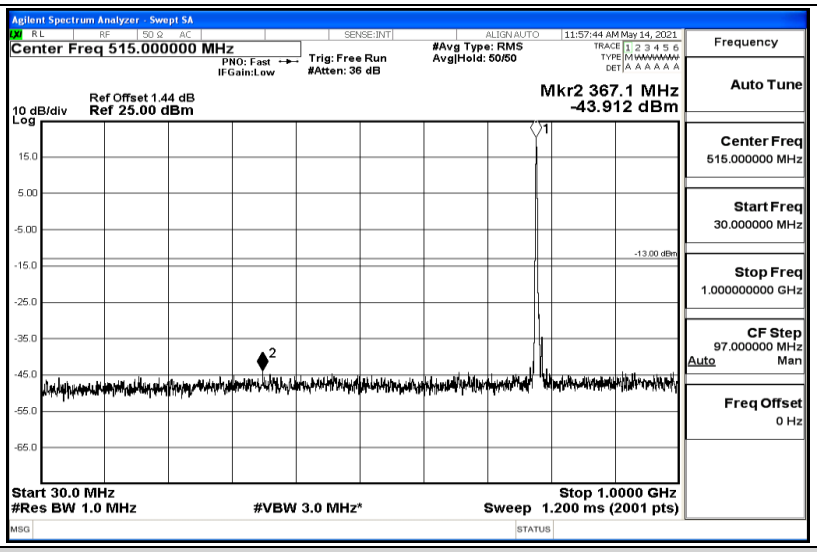
Band13-5MHz-16QAM-23230-1RB#0-Range1:30~1000MHz



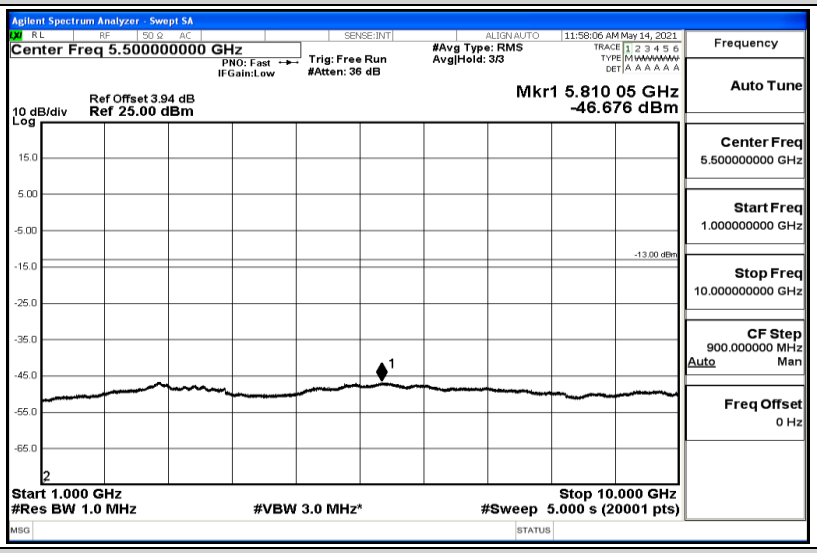
Band13-5MHz-16QAM-23230-1RB#0-Range2:1000~10000MHz



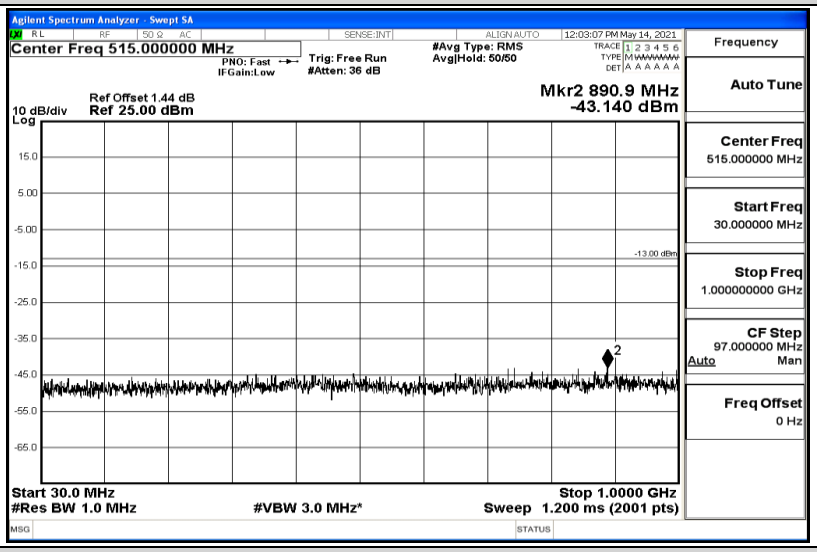
Band13-5MHz-16QAM-23255-1RB#0-Range1:30~1000MHz



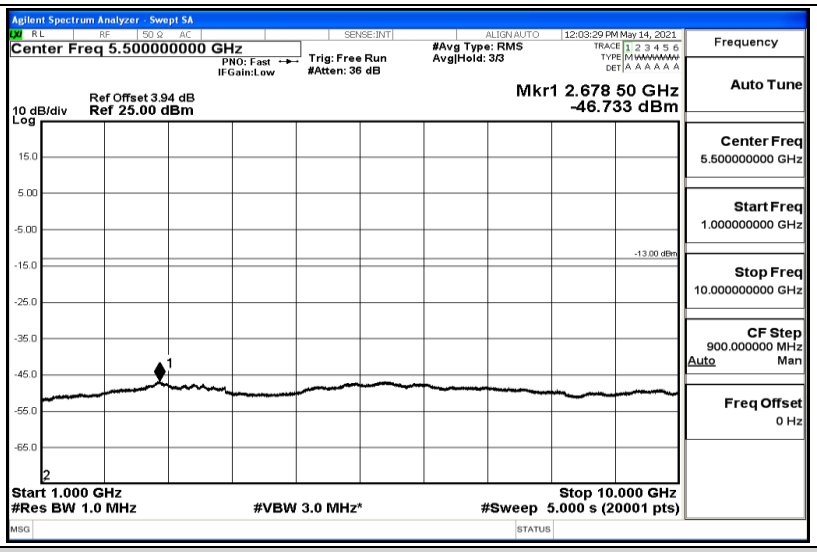
Band13-5MHz-16QAM-23255-1RB#0-Range2:1000~10000MHz



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



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



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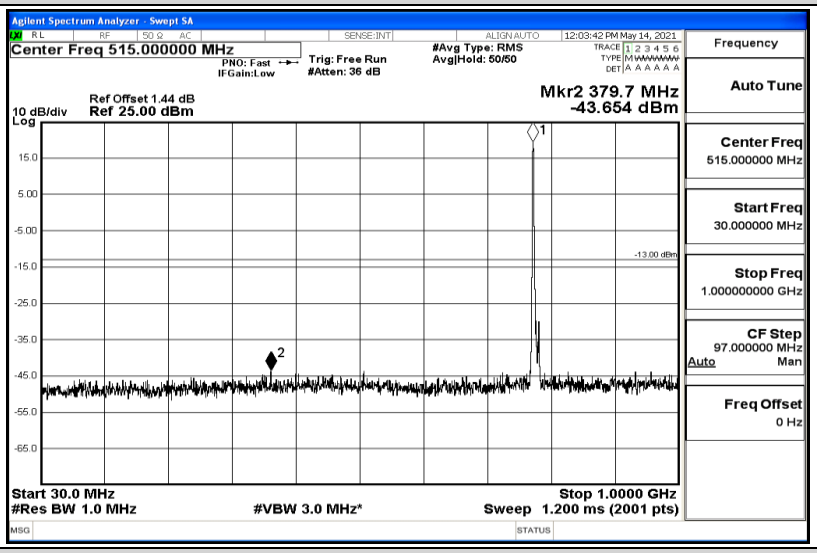
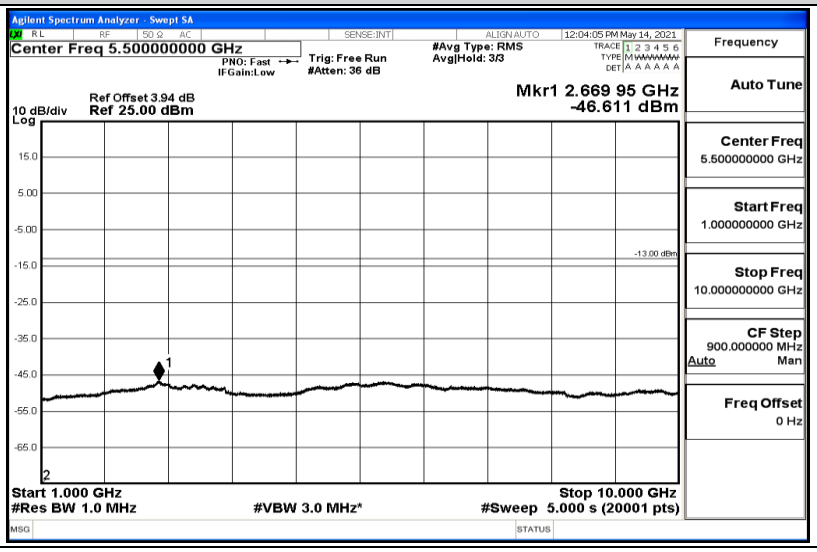
Band13-10MHz-16QAM-23230-1RB#0-Range2:1000~10000MHz