



LTE - Bnad4 RF Test Data

Product Name: Cloud Speaker

Test Model: CS20-1

Environmental Conditions

Temperature:	24.6° C
Relative Humidity:	52.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Simba Huang
Supervised by:	Seal Chen



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Appendix A: Conducted Output Power

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Output Power (dBm)	E.I.R.P. (dBm)	Verdict
Band4	1.4MHz	QPSK	19957	1RB#0	22.59	28.08	PASS
Band4	1.4MHz	QPSK	19957	1RB#2	22.69	28	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	22.69	27.67	PASS
Band4	1.4MHz	QPSK	19957	3RB#0	22.73	28.22	PASS
Band4	1.4MHz	QPSK	19957	3RB#1	22.72	27.63	PASS
Band4	1.4MHz	QPSK	19957	3RB#3	22.65	27.64	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	21.67	27.91	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	22.67	27.72	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	22.78	27.16	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	22.86	27.29	PASS
Band4	1.4MHz	QPSK	20175	3RB#0	22.97	26.22	PASS
Band4	1.4MHz	QPSK	20175	3RB#1	22.95	27.31	PASS
Band4	1.4MHz	QPSK	20175	3RB#3	23.00	27.32	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	21.85	27.29	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	23.12	27.3	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	23.18	27.39	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	23.17	28.11	PASS
Band4	1.4MHz	QPSK	20393	3RB#0	23.11	28.09	PASS
Band4	1.4MHz	QPSK	20393	3RB#1	23.17	27.73	PASS
Band4	1.4MHz	QPSK	20393	3RB#3	23.11	27.72	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	22.02	28.11	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	21.92	27.9	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	21.99	27.92	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	21.94	27.66	PASS
Band4	1.4MHz	16QAM	19957	3RB#0	21.36	28.14	PASS
Band4	1.4MHz	16QAM	19957	3RB#1	21.33	27.56	PASS
Band4	1.4MHz	16QAM	19957	3RB#3	21.30	27.55	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	20.83	27.77	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	21.95	27.61	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	22.17	27.17	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	22.08	27.31	PASS



Band4	1.4MHz	16QAM	20175	3RB#0	22.00	22	PASS
Band4	1.4MHz	16QAM	20175	3RB#1	22.06	22.06	PASS
Band4	1.4MHz	16QAM	20175	3RB#3	22.03	22.03	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	21.15	21.15	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	22.59	22.59	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	22.87	22.87	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	22.80	22.8	PASS
Band4	1.4MHz	16QAM	20393	3RB#0	21.67	21.67	PASS
Band4	1.4MHz	16QAM	20393	3RB#1	21.77	21.77	PASS
Band4	1.4MHz	16QAM	20393	3RB#3	21.69	21.69	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	21.35	21.35	PASS
Band4	3MHz	QPSK	19965	1RB#0	22.56	22.56	PASS
Band4	3MHz	QPSK	19965	1RB#8	22.56	22.56	PASS
Band4	3MHz	QPSK	19965	1RB#14	22.58	22.58	PASS
Band4	3MHz	QPSK	19965	8RB#0	21.59	21.59	PASS
Band4	3MHz	QPSK	19965	8RB#4	21.62	21.62	PASS
Band4	3MHz	QPSK	19965	8RB#7	21.68	21.68	PASS
Band4	3MHz	QPSK	19965	15RB#0	21.56	21.56	PASS
Band4	3MHz	QPSK	20175	1RB#0	22.71	22.71	PASS
Band4	3MHz	QPSK	20175	1RB#8	22.84	22.84	PASS
Band4	3MHz	QPSK	20175	1RB#14	22.92	22.92	PASS
Band4	3MHz	QPSK	20175	8RB#0	21.71	21.71	PASS
Band4	3MHz	QPSK	20175	8RB#4	21.71	21.71	PASS
Band4	3MHz	QPSK	20175	8RB#7	21.85	21.85	PASS
Band4	3MHz	QPSK	20175	15RB#0	21.97	21.97	PASS
Band4	3MHz	QPSK	20385	1RB#0	22.93	22.93	PASS
Band4	3MHz	QPSK	20385	1RB#8	22.98	22.98	PASS
Band4	3MHz	QPSK	20385	1RB#14	23.05	23.05	PASS
Band4	3MHz	QPSK	20385	8RB#0	22.07	22.07	PASS
Band4	3MHz	QPSK	20385	8RB#4	22.10	22.1	PASS
Band4	3MHz	QPSK	20385	8RB#7	22.14	22.14	PASS
Band4	3MHz	QPSK	20385	15RB#0	22.05	22.05	PASS
Band4	3MHz	16QAM	19965	1RB#0	21.52	21.52	PASS
Band4	3MHz	16QAM	19965	1RB#8	21.50	21.5	PASS
Band4	3MHz	16QAM	19965	1RB#14	21.45	21.45	PASS
Band4	3MHz	16QAM	19965	8RB#0	20.85	20.85	PASS
Band4	3MHz	16QAM	19965	8RB#4	20.86	20.86	PASS



Band4	3MHz	16QAM	19965	8RB#7	20.94	20.94	PASS
Band4	3MHz	16QAM	19965	15RB#0	20.89	20.89	PASS
Band4	3MHz	16QAM	20175	1RB#0	21.84	21.84	PASS
Band4	3MHz	16QAM	20175	1RB#8	21.90	21.9	PASS
Band4	3MHz	16QAM	20175	1RB#14	21.93	21.93	PASS
Band4	3MHz	16QAM	20175	8RB#0	21.12	21.12	PASS
Band4	3MHz	16QAM	20175	8RB#4	21.12	21.12	PASS
Band4	3MHz	16QAM	20175	8RB#7	21.19	21.19	PASS
Band4	3MHz	16QAM	20175	15RB#0	20.90	20.9	PASS
Band4	3MHz	16QAM	20385	1RB#0	21.83	21.83	PASS
Band4	3MHz	16QAM	20385	1RB#8	21.93	21.93	PASS
Band4	3MHz	16QAM	20385	1RB#14	21.88	21.88	PASS
Band4	3MHz	16QAM	20385	8RB#0	21.27	21.27	PASS
Band4	3MHz	16QAM	20385	8RB#4	21.28	21.28	PASS
Band4	3MHz	16QAM	20385	8RB#7	21.31	21.31	PASS
Band4	3MHz	16QAM	20385	15RB#0	21.28	21.28	PASS
Band4	5MHz	QPSK	19975	1RB#0	22.65	22.65	PASS
Band4	5MHz	QPSK	19975	1RB#12	22.58	22.58	PASS
Band4	5MHz	QPSK	19975	1RB#24	22.48	22.48	PASS
Band4	5MHz	QPSK	19975	12RB#0	21.69	21.69	PASS
Band4	5MHz	QPSK	19975	12RB#6	21.59	21.59	PASS
Band4	5MHz	QPSK	19975	12RB#13	21.59	21.59	PASS
Band4	5MHz	QPSK	19975	25RB#0	21.69	21.69	PASS
Band4	5MHz	QPSK	20175	1RB#0	22.79	22.79	PASS
Band4	5MHz	QPSK	20175	1RB#12	22.97	22.97	PASS
Band4	5MHz	QPSK	20175	1RB#24	22.95	22.95	PASS
Band4	5MHz	QPSK	20175	12RB#0	21.90	21.9	PASS
Band4	5MHz	QPSK	20175	12RB#6	21.90	21.9	PASS
Band4	5MHz	QPSK	20175	12RB#13	22.03	22.03	PASS
Band4	5MHz	QPSK	20175	25RB#0	21.95	21.95	PASS
Band4	5MHz	QPSK	20375	1RB#0	23.00	23	PASS
Band4	5MHz	QPSK	20375	1RB#12	22.99	22.99	PASS
Band4	5MHz	QPSK	20375	1RB#24	23.06	23.06	PASS
Band4	5MHz	QPSK	20375	12RB#0	22.12	22.12	PASS
Band4	5MHz	QPSK	20375	12RB#6	22.14	22.14	PASS
Band4	5MHz	QPSK	20375	12RB#13	22.08	22.08	PASS
Band4	5MHz	QPSK	20375	25RB#0	22.04	22.04	PASS



Band4	5MHz	16QAM	19975	1RB#0	21.02	21.02	PASS
Band4	5MHz	16QAM	19975	1RB#12	20.94	20.94	PASS
Band4	5MHz	16QAM	19975	1RB#24	20.92	20.92	PASS
Band4	5MHz	16QAM	19975	12RB#0	20.75	20.75	PASS
Band4	5MHz	16QAM	19975	12RB#6	20.80	20.8	PASS
Band4	5MHz	16QAM	19975	12RB#13	20.71	20.71	PASS
Band4	5MHz	16QAM	19975	25RB#0	20.86	20.86	PASS
Band4	5MHz	16QAM	20175	1RB#0	21.76	21.76	PASS
Band4	5MHz	16QAM	20175	1RB#12	21.93	21.93	PASS
Band4	5MHz	16QAM	20175	1RB#24	21.91	21.91	PASS
Band4	5MHz	16QAM	20175	12RB#0	20.94	20.94	PASS
Band4	5MHz	16QAM	20175	12RB#6	20.87	20.87	PASS
Band4	5MHz	16QAM	20175	12RB#13	20.99	20.99	PASS
Band4	5MHz	16QAM	20175	25RB#0	20.86	20.86	PASS
Band4	5MHz	16QAM	20375	1RB#0	21.46	21.46	PASS
Band4	5MHz	16QAM	20375	1RB#12	21.54	21.54	PASS
Band4	5MHz	16QAM	20375	1RB#24	21.47	21.47	PASS
Band4	5MHz	16QAM	20375	12RB#0	21.18	21.18	PASS
Band4	5MHz	16QAM	20375	12RB#6	21.21	21.21	PASS
Band4	5MHz	16QAM	20375	12RB#13	21.16	21.16	PASS
Band4	5MHz	16QAM	20375	25RB#0	21.28	21.28	PASS
Band4	10MHz	QPSK	20000	1RB#0	22.76	22.76	PASS
Band4	10MHz	QPSK	20000	1RB#24	22.56	22.56	PASS
Band4	10MHz	QPSK	20000	1RB#49	22.55	22.55	PASS
Band4	10MHz	QPSK	20000	25RB#0	21.65	21.65	PASS
Band4	10MHz	QPSK	20000	25RB#12	21.62	21.62	PASS
Band4	10MHz	QPSK	20000	25RB#25	21.59	21.59	PASS
Band4	10MHz	QPSK	20000	50RB#0	21.70	21.7	PASS
Band4	10MHz	QPSK	20175	1RB#0	22.64	22.64	PASS
Band4	10MHz	QPSK	20175	1RB#24	22.92	22.92	PASS
Band4	10MHz	QPSK	20175	1RB#49	22.95	22.95	PASS
Band4	10MHz	QPSK	20175	25RB#0	21.79	21.79	PASS
Band4	10MHz	QPSK	20175	25RB#12	21.77	21.77	PASS
Band4	10MHz	QPSK	20175	25RB#25	22.00	22	PASS
Band4	10MHz	QPSK	20175	50RB#0	21.85	21.85	PASS
Band4	10MHz	QPSK	20350	1RB#0	22.95	22.95	PASS
Band4	10MHz	QPSK	20350	1RB#24	23.05	23.05	PASS



Band4	10MHz	QPSK	20350	1RB#49	23.08	23.08	PASS
Band4	10MHz	QPSK	20350	25RB#0	22.08	22.08	PASS
Band4	10MHz	QPSK	20350	25RB#12	22.13	22.13	PASS
Band4	10MHz	QPSK	20350	25RB#25	22.00	22	PASS
Band4	10MHz	QPSK	20350	50RB#0	22.09	22.09	PASS
Band4	10MHz	16QAM	20000	1RB#0	21.85	21.85	PASS
Band4	10MHz	16QAM	20000	1RB#24	21.69	21.69	PASS
Band4	10MHz	16QAM	20000	1RB#49	21.82	21.82	PASS
Band4	10MHz	16QAM	20000	25RB#0	20.81	20.81	PASS
Band4	10MHz	16QAM	20000	25RB#12	20.83	20.83	PASS
Band4	10MHz	16QAM	20000	25RB#25	20.76	20.76	PASS
Band4	10MHz	16QAM	20000	50RB#0	20.77	20.77	PASS
Band4	10MHz	16QAM	20175	1RB#0	21.36	21.36	PASS
Band4	10MHz	16QAM	20175	1RB#24	21.65	21.65	PASS
Band4	10MHz	16QAM	20175	1RB#49	21.65	21.65	PASS
Band4	10MHz	16QAM	20175	25RB#0	21.02	21.02	PASS
Band4	10MHz	16QAM	20175	25RB#12	21.03	21.03	PASS
Band4	10MHz	16QAM	20175	25RB#25	21.15	21.15	PASS
Band4	10MHz	16QAM	20175	50RB#0	21.04	21.04	PASS
Band4	10MHz	16QAM	20350	1RB#0	22.19	22.19	PASS
Band4	10MHz	16QAM	20350	1RB#24	22.08	22.08	PASS
Band4	10MHz	16QAM	20350	1RB#49	22.11	22.11	PASS
Band4	10MHz	16QAM	20350	25RB#0	21.13	21.13	PASS
Band4	10MHz	16QAM	20350	25RB#12	21.14	21.14	PASS
Band4	10MHz	16QAM	20350	25RB#25	21.17	21.17	PASS
Band4	10MHz	16QAM	20350	50RB#0	21.28	21.28	PASS
Band4	15MHz	QPSK	20025	1RB#0	23.52	23.52	PASS
Band4	15MHz	QPSK	20025	1RB#38	23.61	23.61	PASS
Band4	15MHz	QPSK	20025	1RB#74	23.39	23.39	PASS
Band4	15MHz	QPSK	20025	38RB#0	22.34	22.34	PASS
Band4	15MHz	QPSK	20025	38RB#18	22.34	22.34	PASS
Band4	15MHz	QPSK	20025	38RB#37	22.33	22.33	PASS
Band4	15MHz	QPSK	20025	75RB#0	22.32	22.32	PASS
Band4	15MHz	QPSK	20175	1RB#0	22.99	22.99	PASS
Band4	15MHz	QPSK	20175	1RB#38	22.99	22.99	PASS
Band4	15MHz	QPSK	20175	1RB#74	23.10	23.1	PASS
Band4	15MHz	QPSK	20175	38RB#0	22.02	22.02	PASS



Band4	15MHz	QPSK	20175	38RB#18	22.00	22	PASS
Band4	15MHz	QPSK	20175	38RB#37	22.00	22	PASS
Band4	15MHz	QPSK	20175	75RB#0	22.00	22	PASS
Band4	15MHz	QPSK	20325	1RB#0	23.19	23.19	PASS
Band4	15MHz	QPSK	20325	1RB#38	23.14	23.14	PASS
Band4	15MHz	QPSK	20325	1RB#74	23.08	23.08	PASS
Band4	15MHz	QPSK	20325	38RB#0	21.99	21.99	PASS
Band4	15MHz	QPSK	20325	38RB#18	22.00	22	PASS
Band4	15MHz	QPSK	20325	38RB#37	22.01	22.01	PASS
Band4	15MHz	QPSK	20325	75RB#0	22.02	22.02	PASS
Band4	15MHz	16QAM	20025	1RB#0	22.64	22.64	PASS
Band4	15MHz	16QAM	20025	1RB#38	23.23	23.23	PASS
Band4	15MHz	16QAM	20025	1RB#74	22.21	22.21	PASS
Band4	15MHz	16QAM	20025	38RB#0	22.34	22.34	PASS
Band4	15MHz	16QAM	20025	38RB#18	22.34	22.34	PASS
Band4	15MHz	16QAM	20025	38RB#37	22.33	22.33	PASS
Band4	15MHz	16QAM	20025	75RB#0	21.25	21.25	PASS
Band4	15MHz	16QAM	20175	1RB#0	22.19	22.19	PASS
Band4	15MHz	16QAM	20175	1RB#38	22.02	22.02	PASS
Band4	15MHz	16QAM	20175	1RB#74	22.18	22.18	PASS
Band4	15MHz	16QAM	20175	38RB#0	22.01	22.01	PASS
Band4	15MHz	16QAM	20175	38RB#18	22.00	22	PASS
Band4	15MHz	16QAM	20175	38RB#37	22.00	22	PASS
Band4	15MHz	16QAM	20175	75RB#0	21.14	21.14	PASS
Band4	15MHz	16QAM	20325	1RB#0	22.34	22.34	PASS
Band4	15MHz	16QAM	20325	1RB#38	22.12	22.12	PASS
Band4	15MHz	16QAM	20325	1RB#74	22.33	22.33	PASS
Band4	15MHz	16QAM	20325	38RB#0	22.00	22	PASS
Band4	15MHz	16QAM	20325	38RB#18	22.00	22	PASS
Band4	15MHz	16QAM	20325	38RB#37	22.01	22.01	PASS
Band4	15MHz	16QAM	20325	75RB#0	21.19	21.19	PASS
Band4	20MHz	QPSK	20050	1RB#0	23.45	23.45	PASS
Band4	20MHz	QPSK	20050	1RB#49	23.72	23.72	PASS
Band4	20MHz	QPSK	20050	1RB#99	22.93	22.93	PASS
Band4	20MHz	QPSK	20050	50RB#0	22.58	22.58	PASS
Band4	20MHz	QPSK	20050	50RB#25	22.50	22.5	PASS
Band4	20MHz	QPSK	20050	50RB#50	22.15	22.15	PASS



Band4	20MHz	QPSK	20050	100RB#0	22.32	22.32	PASS
Band4	20MHz	QPSK	20175	1RB#0	23.24	23.24	PASS
Band4	20MHz	QPSK	20175	1RB#49	23.40	23.4	PASS
Band4	20MHz	QPSK	20175	1RB#99	23.01	23.01	PASS
Band4	20MHz	QPSK	20175	50RB#0	22.03	22.03	PASS
Band4	20MHz	QPSK	20175	50RB#25	22.12	22.12	PASS
Band4	20MHz	QPSK	20175	50RB#50	22.15	22.15	PASS
Band4	20MHz	QPSK	20175	100RB#0	22.11	22.11	PASS
Band4	20MHz	QPSK	20300	1RB#0	23.11	23.11	PASS
Band4	20MHz	QPSK	20300	1RB#49	23.54	23.54	PASS
Band4	20MHz	QPSK	20300	1RB#99	23.08	23.08	PASS
Band4	20MHz	QPSK	20300	50RB#0	22.27	22.27	PASS
Band4	20MHz	QPSK	20300	50RB#25	22.20	22.2	PASS
Band4	20MHz	QPSK	20300	50RB#50	22.11	22.11	PASS
Band4	20MHz	QPSK	20300	100RB#0	22.19	22.19	PASS
Band4	20MHz	16QAM	20050	1RB#0	22.70	22.7	PASS
Band4	20MHz	16QAM	20050	1RB#49	22.96	22.96	PASS
Band4	20MHz	16QAM	20050	1RB#99	22.27	22.27	PASS
Band4	20MHz	16QAM	20050	50RB#0	21.60	21.6	PASS
Band4	20MHz	16QAM	20050	50RB#25	21.70	21.7	PASS
Band4	20MHz	16QAM	20050	50RB#50	21.35	21.35	PASS
Band4	20MHz	16QAM	20050	100RB#0	21.41	21.41	PASS
Band4	20MHz	16QAM	20175	1RB#0	22.56	22.56	PASS
Band4	20MHz	16QAM	20175	1RB#49	22.87	22.87	PASS
Band4	20MHz	16QAM	20175	1RB#99	22.42	22.42	PASS
Band4	20MHz	16QAM	20175	50RB#0	21.13	21.13	PASS
Band4	20MHz	16QAM	20175	50RB#25	21.23	21.23	PASS
Band4	20MHz	16QAM	20175	50RB#50	21.21	21.21	PASS
Band4	20MHz	16QAM	20175	100RB#0	21.22	21.22	PASS
Band4	20MHz	16QAM	20300	1RB#0	22.36	22.36	PASS
Band4	20MHz	16QAM	20300	1RB#49	22.81	22.81	PASS
Band4	20MHz	16QAM	20300	1RB#99	22.35	22.35	PASS
Band4	20MHz	16QAM	20300	50RB#0	21.37	21.37	PASS
Band4	20MHz	16QAM	20300	50RB#25	21.29	21.29	PASS
Band4	20MHz	16QAM	20300	50RB#50	21.22	21.22	PASS
Band4	20MHz	16QAM	20300	100RB#0	21.26	21.26	PASS

Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band4	1.4MHz	QPSK	19957	1RB#0	4.99	13	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	5.52	13	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	4.51	13	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	5.19	13	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	3.85	13	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	4.56	13	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	5.34	13	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	6.20	13	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	5.51	13	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	5.88	13	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	4.36	13	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	5.52	13	PASS
Band4	3MHz	QPSK	19965	1RB#0	4.95	13	PASS
Band4	3MHz	QPSK	19965	15RB#0	5.60	13	PASS
Band4	3MHz	QPSK	20175	1RB#0	4.68	13	PASS
Band4	3MHz	QPSK	20175	15RB#0	5.08	13	PASS
Band4	3MHz	QPSK	20385	1RB#0	3.68	13	PASS
Band4	3MHz	QPSK	20385	15RB#0	4.53	13	PASS
Band4	3MHz	16QAM	19965	1RB#0	5.82	13	PASS
Band4	3MHz	16QAM	19965	15RB#0	6.38	13	PASS
Band4	3MHz	16QAM	20175	1RB#0	5.46	13	PASS
Band4	3MHz	16QAM	20175	15RB#0	5.93	13	PASS
Band4	3MHz	16QAM	20385	1RB#0	4.39	13	PASS
Band4	3MHz	16QAM	20385	15RB#0	5.34	13	PASS
Band4	5MHz	QPSK	19975	1RB#0	5.22	13	PASS
Band4	5MHz	QPSK	19975	25RB#0	5.62	13	PASS
Band4	5MHz	QPSK	20175	1RB#0	4.99	13	PASS
Band4	5MHz	QPSK	20175	25RB#0	5.12	13	PASS
Band4	5MHz	QPSK	20375	1RB#0	3.47	13	PASS
Band4	5MHz	QPSK	20375	25RB#0	4.48	13	PASS
Band4	5MHz	16QAM	19975	1RB#0	5.97	13	PASS
Band4	5MHz	16QAM	19975	25RB#0	6.29	13	PASS
Band4	5MHz	16QAM	20175	1RB#0	5.59	13	PASS
Band4	5MHz	16QAM	20175	25RB#0	5.94	13	PASS
Band4	5MHz	16QAM	20375	1RB#0	4.58	13	PASS



Band4	5MHz	16QAM	20375	25RB#0	5.43	13	PASS
Band4	10MHz	QPSK	20000	1RB#0	5.03	13	PASS
Band4	10MHz	QPSK	20000	50RB#0	5.74	13	PASS
Band4	10MHz	QPSK	20175	1RB#0	5.05	13	PASS
Band4	10MHz	QPSK	20175	50RB#0	5.16	13	PASS
Band4	10MHz	QPSK	20350	1RB#0	3.60	13	PASS
Band4	10MHz	QPSK	20350	50RB#0	4.58	13	PASS
Band4	10MHz	16QAM	20000	1RB#0	5.99	13	PASS
Band4	10MHz	16QAM	20000	50RB#0	6.46	13	PASS
Band4	10MHz	16QAM	20175	1RB#0	5.70	13	PASS
Band4	10MHz	16QAM	20175	50RB#0	6.00	13	PASS
Band4	10MHz	16QAM	20350	1RB#0	3.94	13	PASS
Band4	10MHz	16QAM	20350	50RB#0	5.29	13	PASS
Band4	15MHz	QPSK	20025	1RB#0	5.03	13	PASS
Band4	15MHz	QPSK	20025	75RB#0	6.04	13	PASS
Band4	15MHz	QPSK	20175	1RB#0	5.39	13	PASS
Band4	15MHz	QPSK	20175	75RB#0	5.52	13	PASS
Band4	15MHz	QPSK	20325	1RB#0	3.73	13	PASS
Band4	15MHz	QPSK	20325	75RB#0	4.87	13	PASS
Band4	15MHz	16QAM	20025	1RB#0	5.87	13	PASS
Band4	15MHz	16QAM	20025	75RB#0	6.57	13	PASS
Band4	15MHz	16QAM	20175	1RB#0	6.08	13	PASS
Band4	15MHz	16QAM	20175	75RB#0	6.09	13	PASS
Band4	15MHz	16QAM	20325	1RB#0	4.52	13	PASS
Band4	15MHz	16QAM	20325	75RB#0	5.59	13	PASS
Band4	20MHz	QPSK	20050	1RB#0	4.91	13	PASS
Band4	20MHz	QPSK	20050	100RB#0	5.79	13	PASS
Band4	20MHz	QPSK	20175	1RB#0	5.52	13	PASS
Band4	20MHz	QPSK	20175	100RB#0	5.46	13	PASS
Band4	20MHz	QPSK	20300	1RB#0	4.15	13	PASS
Band4	20MHz	QPSK	20300	100RB#0	5.07	13	PASS
Band4	20MHz	16QAM	20050	1RB#0	5.62	13	PASS
Band4	20MHz	16QAM	20050	100RB#0	6.56	13	PASS
Band4	20MHz	16QAM	20175	1RB#0	6.52	13	PASS
Band4	20MHz	16QAM	20175	100RB#0	6.18	13	PASS
Band4	20MHz	16QAM	20300	1RB#0	5.33	13	PASS
Band4	20MHz	16QAM	20300	100RB#0	5.81	13	PASS

Test Graphs

Band4-1.4MHz-QPSK-19957-1RB#0



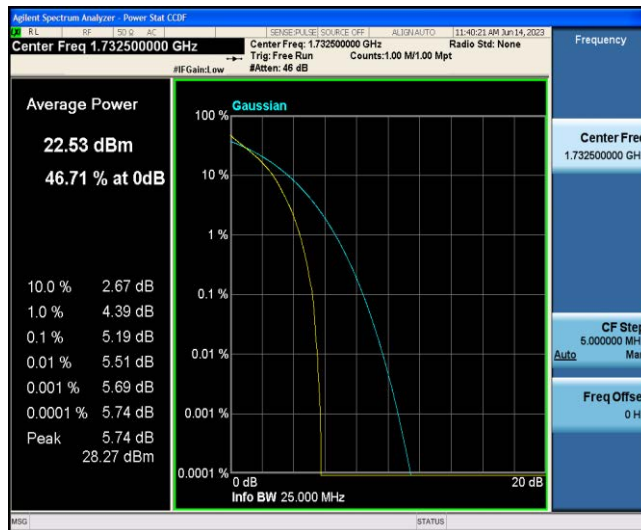
Band4-1.4MHz-QPSK-19957-6RB#0



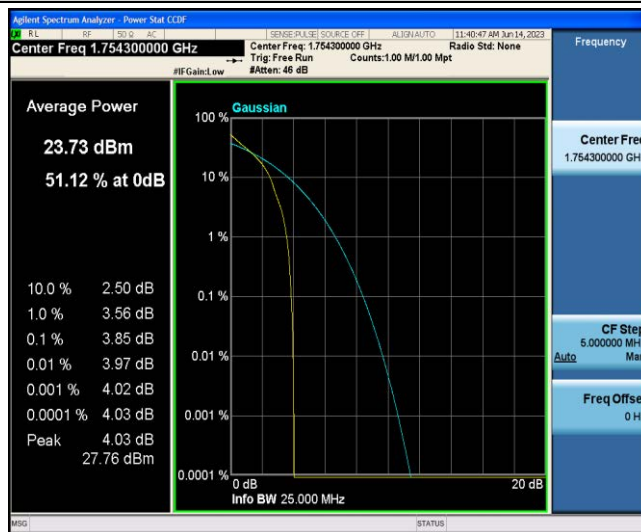
Band4-1.4MHz-QPSK-20175-1RB#0



Band4-1.4MHz-QPSK-20175-6RB#0



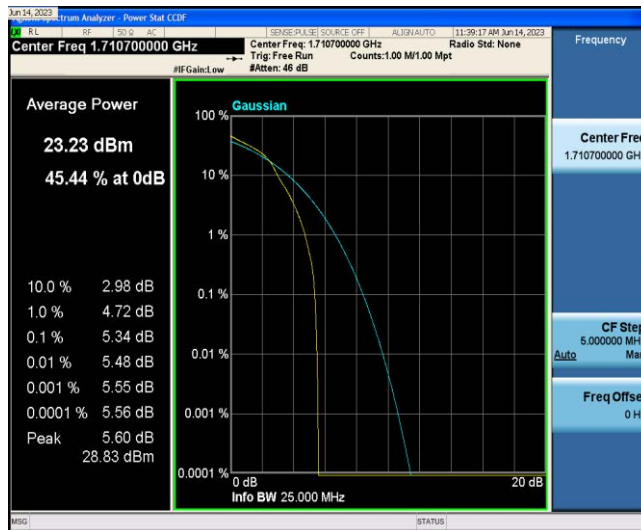
Band4-1.4MHz-QPSK-20393-1RB#0



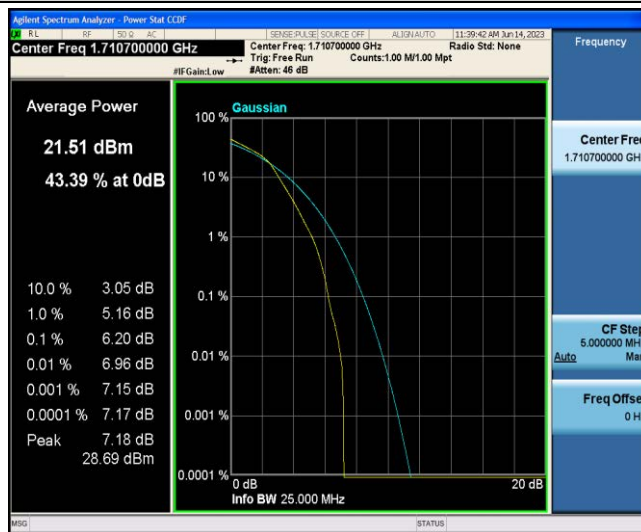
Band4-1.4MHz-QPSK-20393-6RB#0



Band4-1.4MHz-16QAM-19957-1RB#0



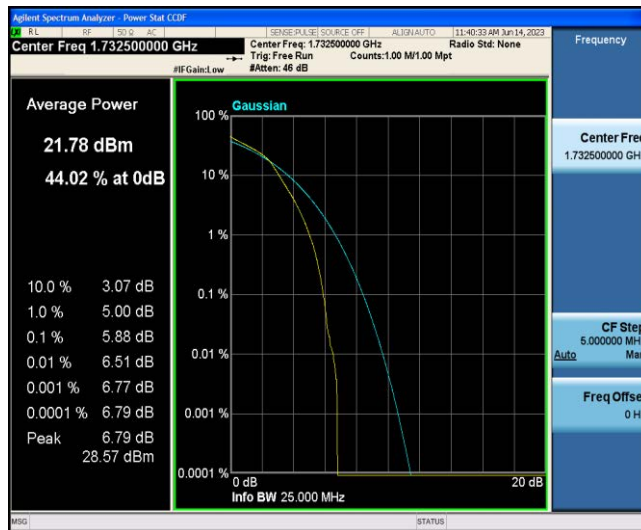
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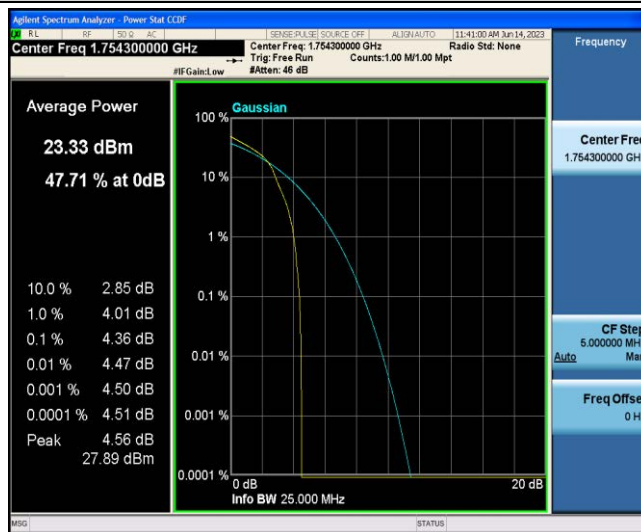
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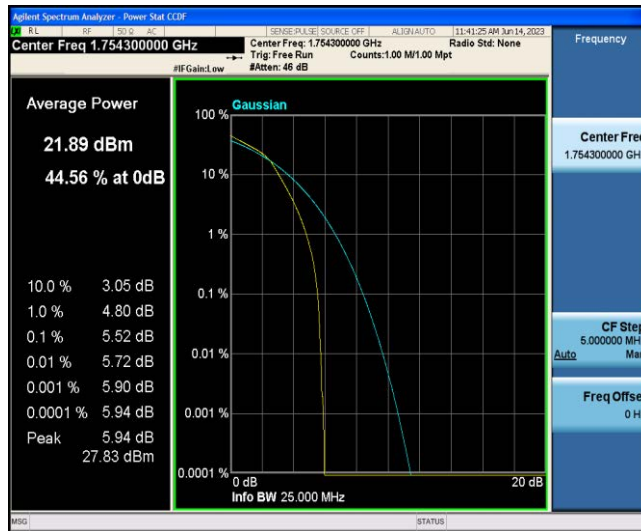
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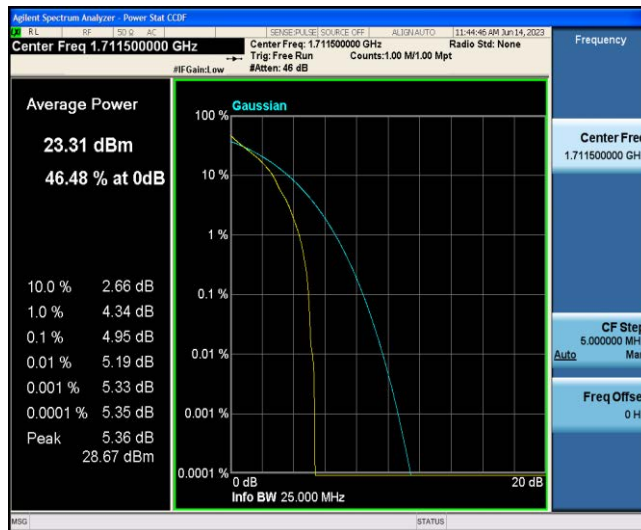
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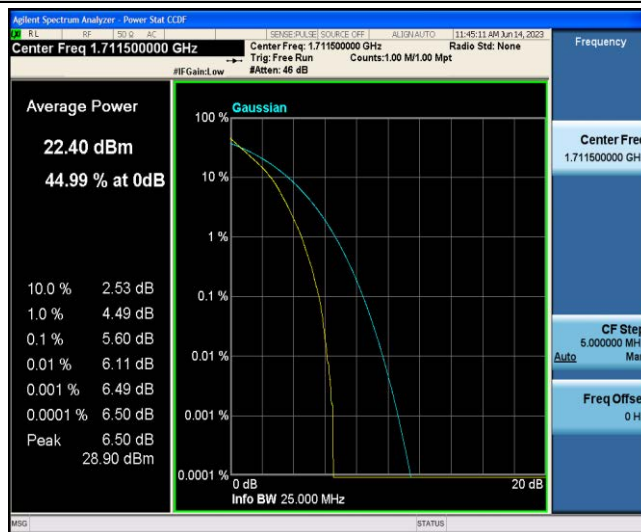
Band4-1.4MHz-16QAM-20393-6RB#0



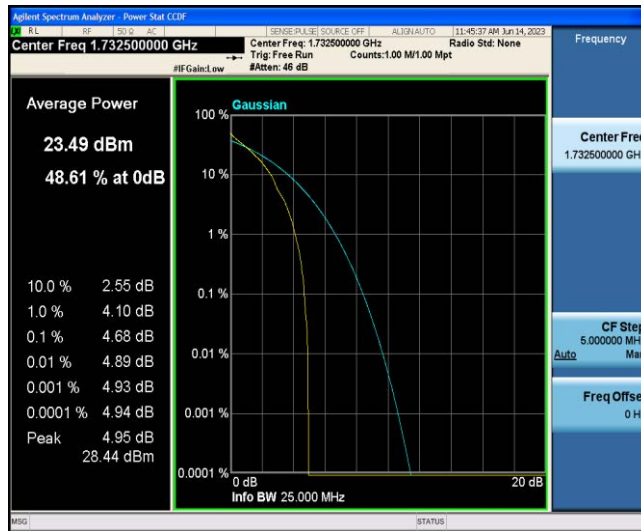
Band4-3MHz-QPSK-19965-1RB#0



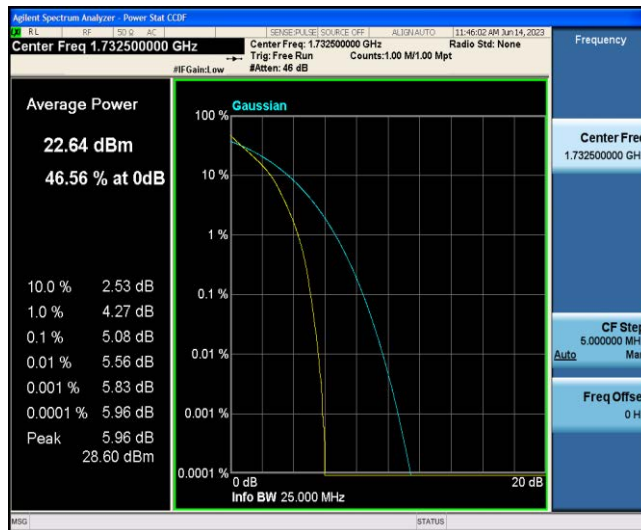
Band4-3MHz-QPSK-19965-15RB#0



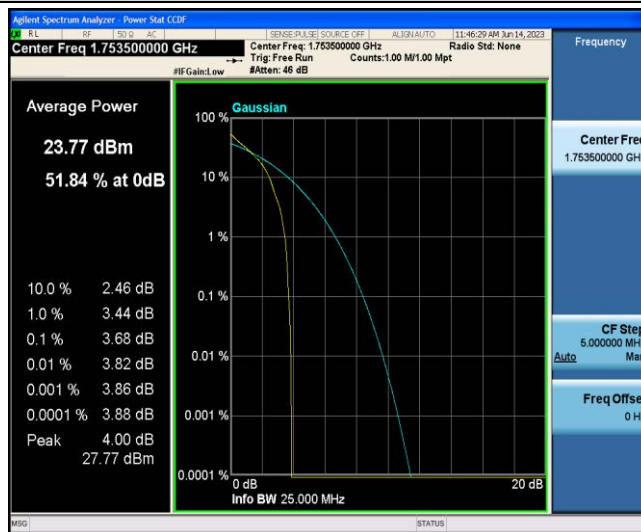
Band4-3MHz-QPSK-20175-1RB#0



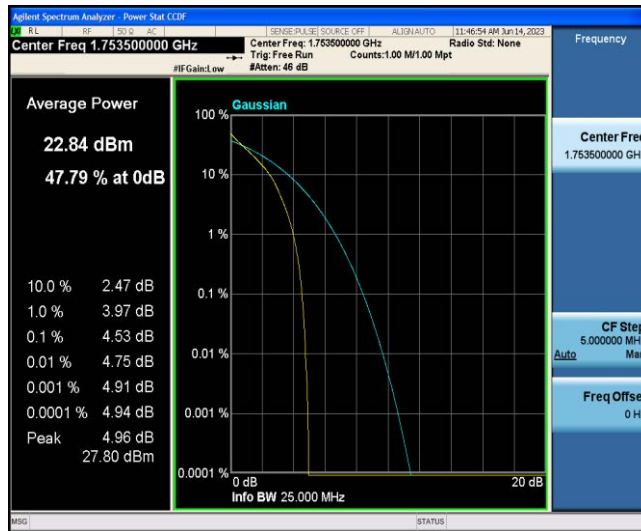
Band4-3MHz-QPSK-20175-15RB#0



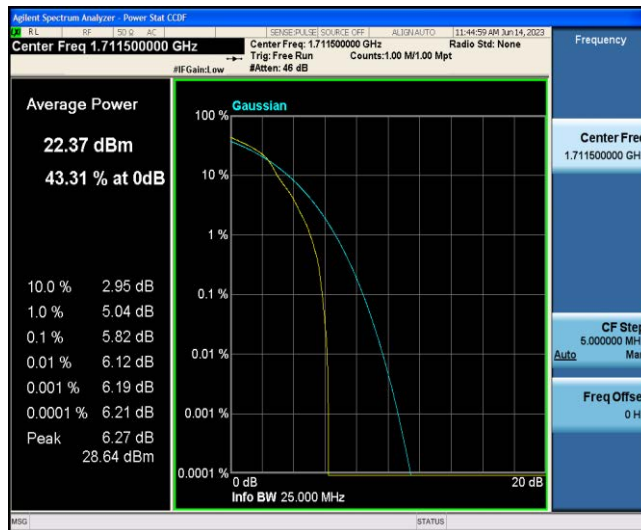
Band4-3MHz-QPSK-20385-1RB#0



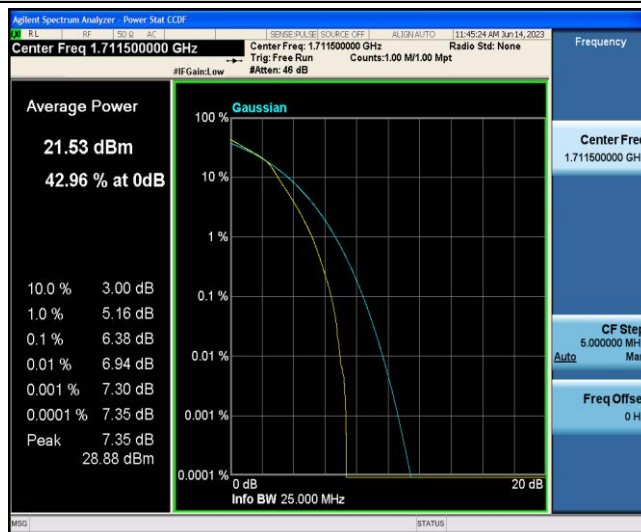
Band4-3MHz-QPSK-20385-15RB#0



Band4-3MHz-16QAM-19965-1RB#0



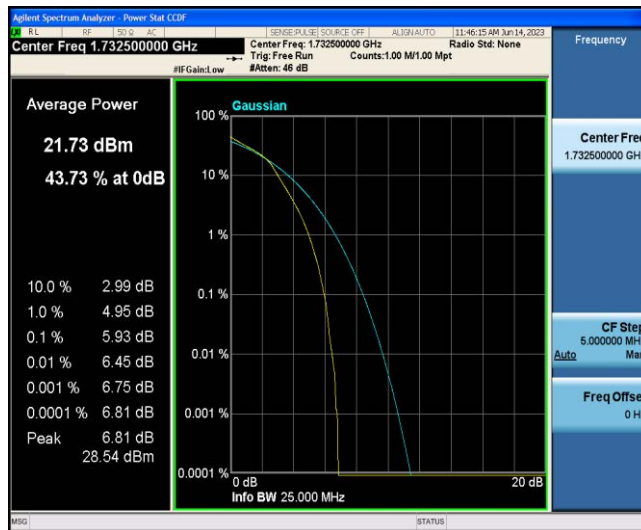
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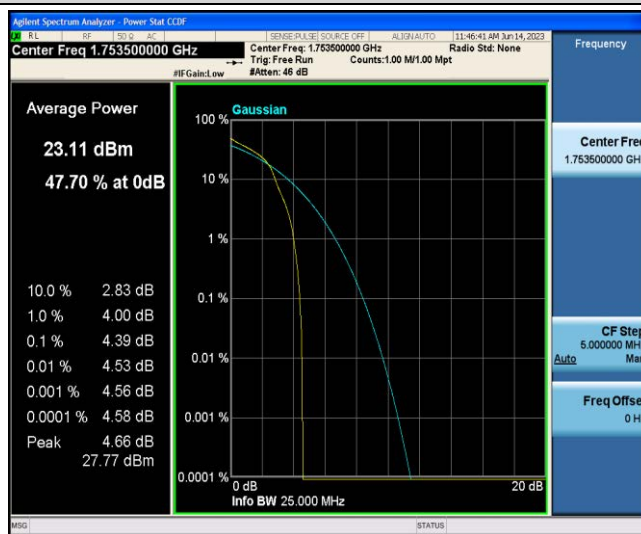
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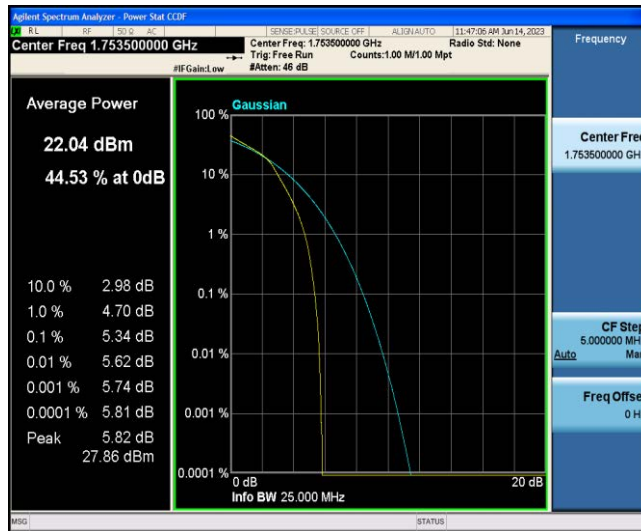
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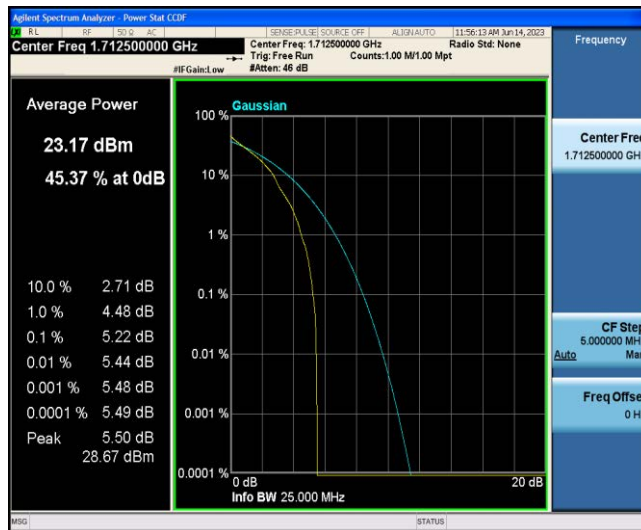
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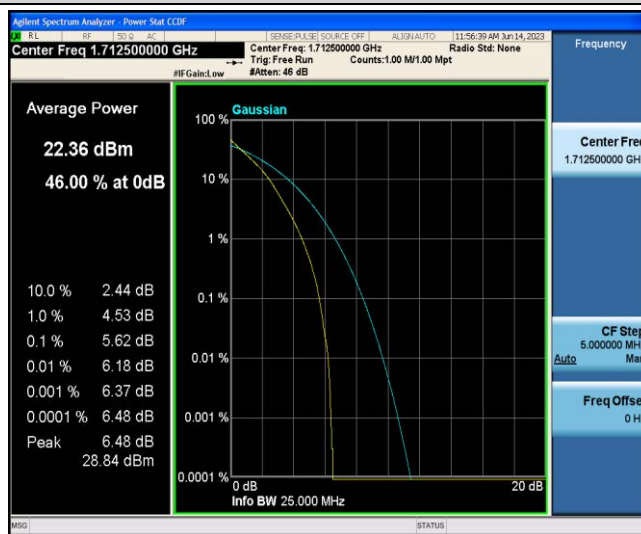
Band4-3MHz-16QAM-20385-15RB#0



Band4-5MHz-QPSK-19975-1RB#0



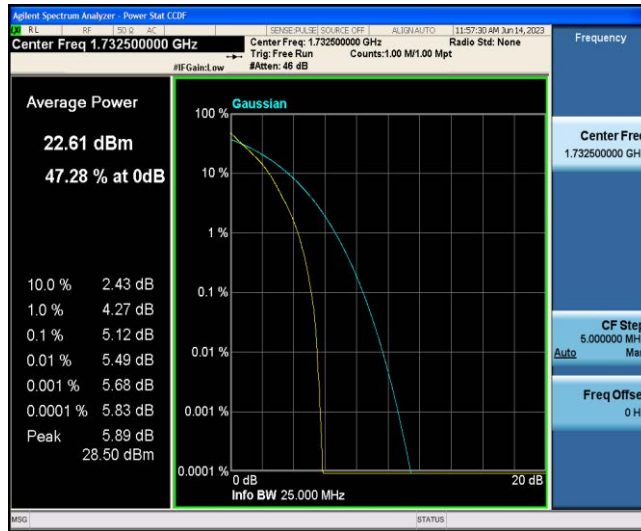
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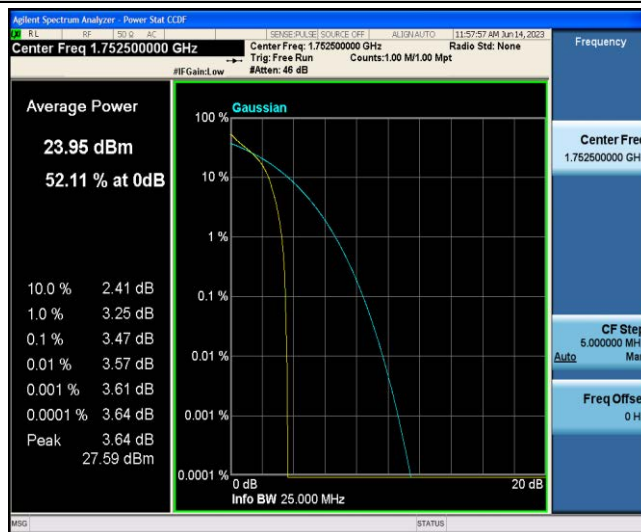
Band4-5MHz-QPSK-20175-1RB#0



Band4-5MHz-QPSK-20175-25RB#0



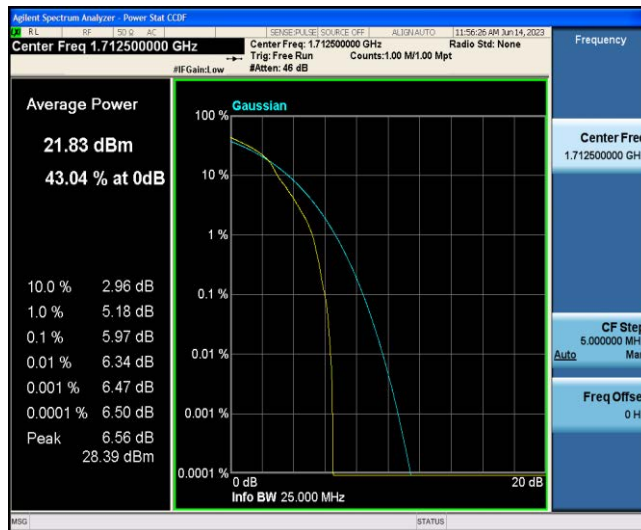
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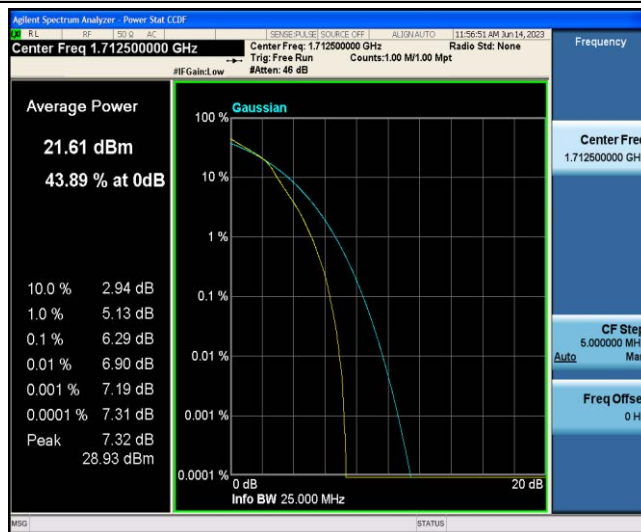
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Band4-5MHz-16QAM-19975-1RB#0



Band4-5MHz-16QAM-19975-25RB#0



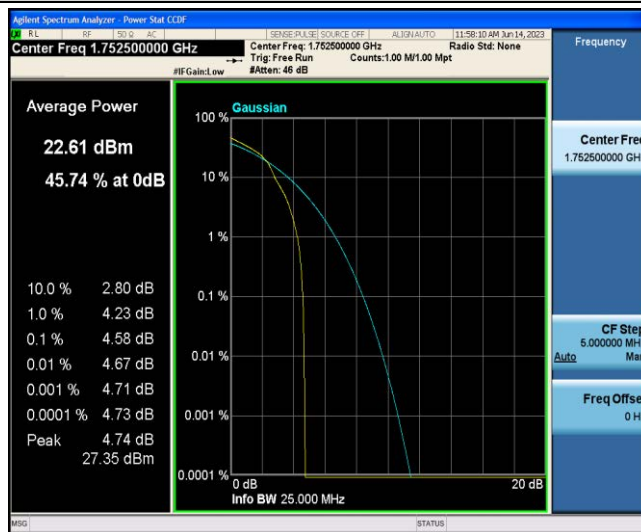
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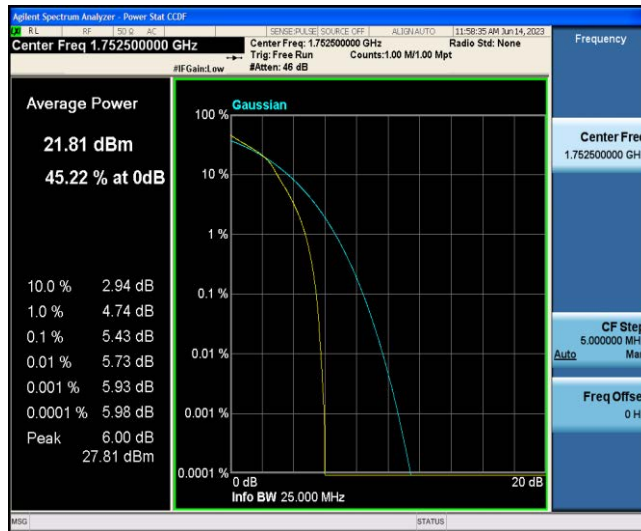
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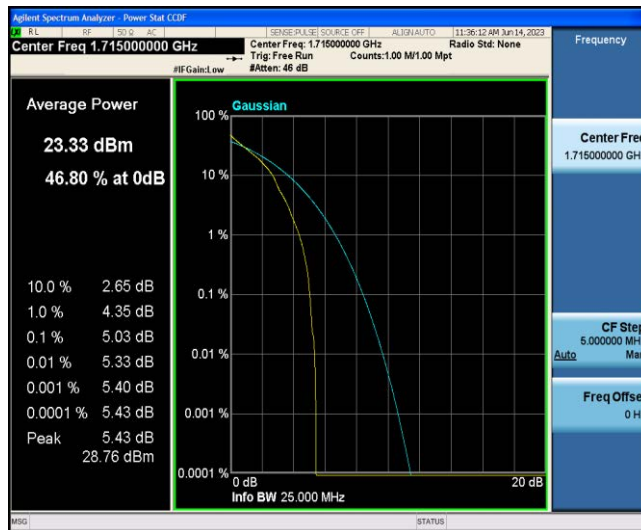
Band4-5MHz-16QAM-20375-1RB#0



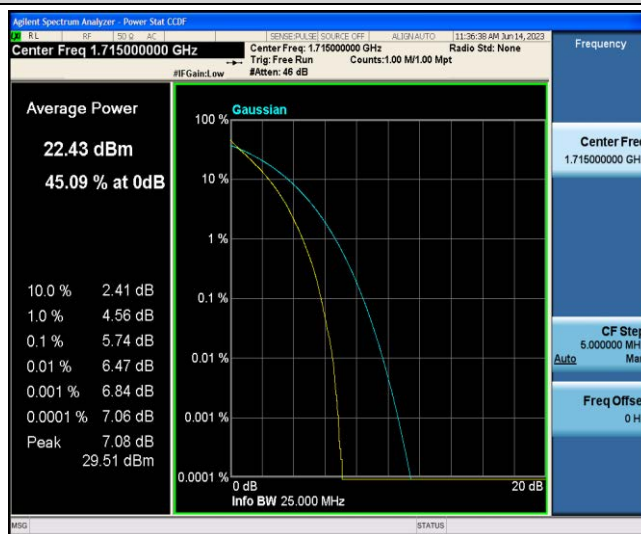
Band4-5MHz-16QAM-20375-25RB#0



Band4-10MHz-QPSK-20000-1RB#0



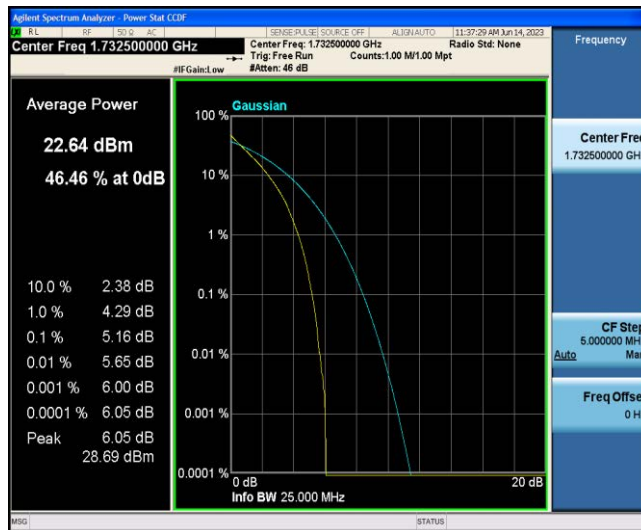
Band4-10MHz-QPSK-20000-50RB#0



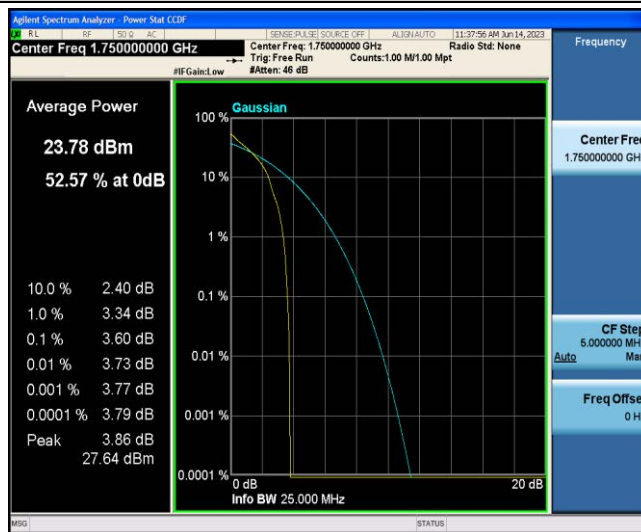
Band4-10MHz-QPSK-20175-1RB#0



Band4-10MHz-QPSK-20175-50RB#0



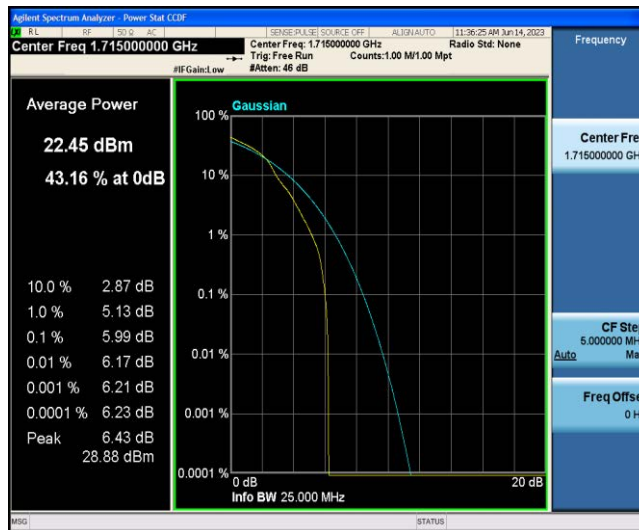
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Band4-10MHz-QPSK-20350-50RB#0



Band4-10MHz-16QAM-20000-1RB#0



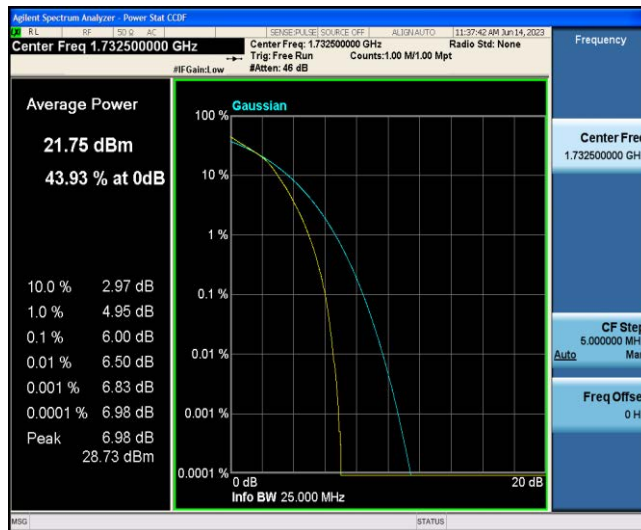
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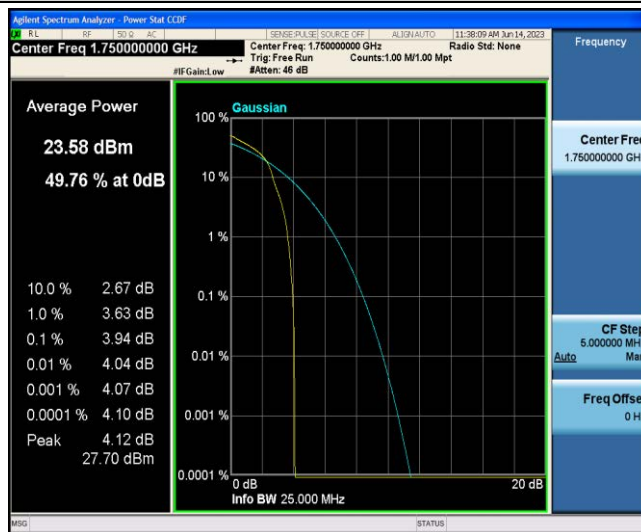
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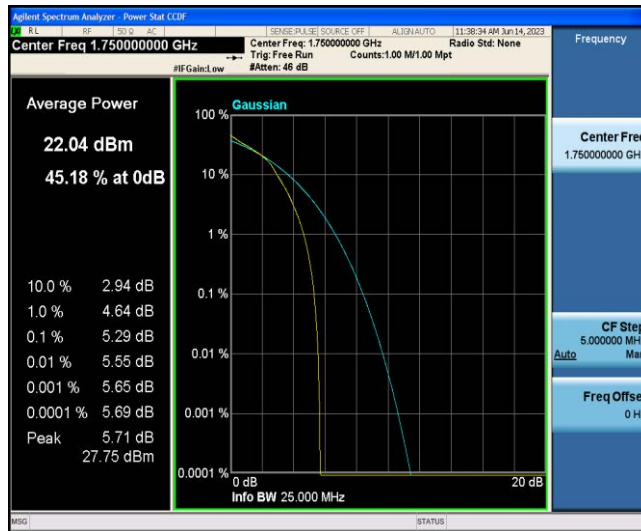
Band4-10MHz-16QAM-20175-50RB#0



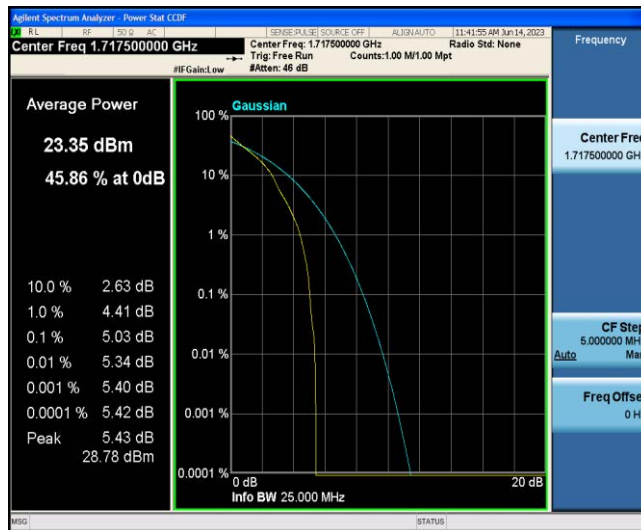
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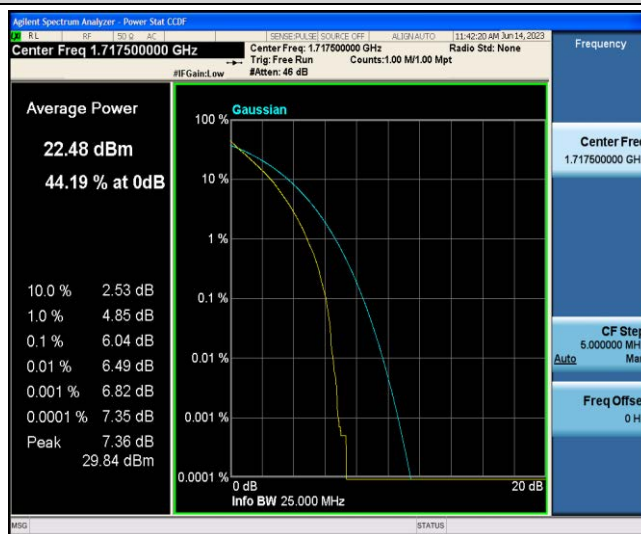
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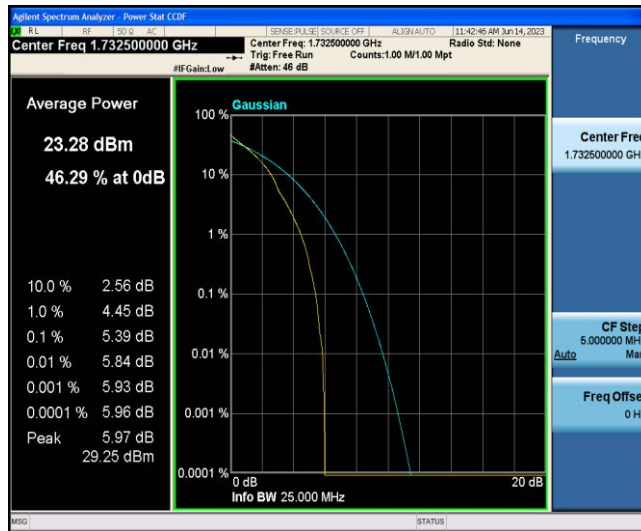
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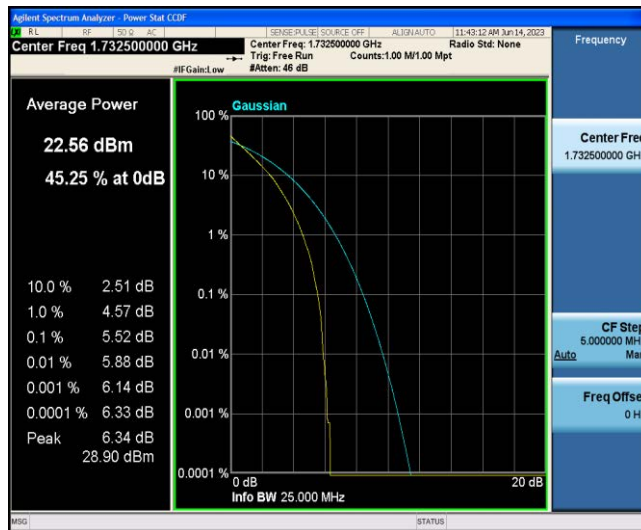
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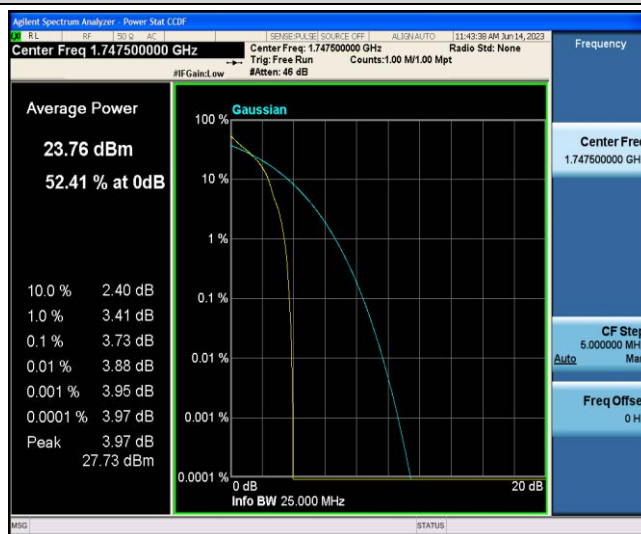
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Band4-15MHz-QPSK-20175-75RB#0



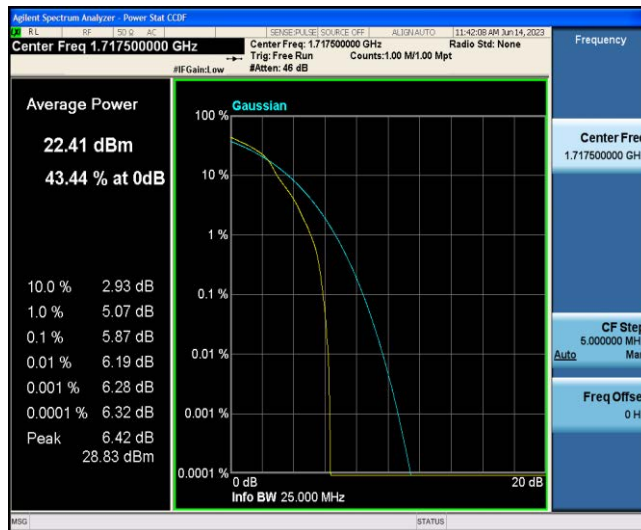
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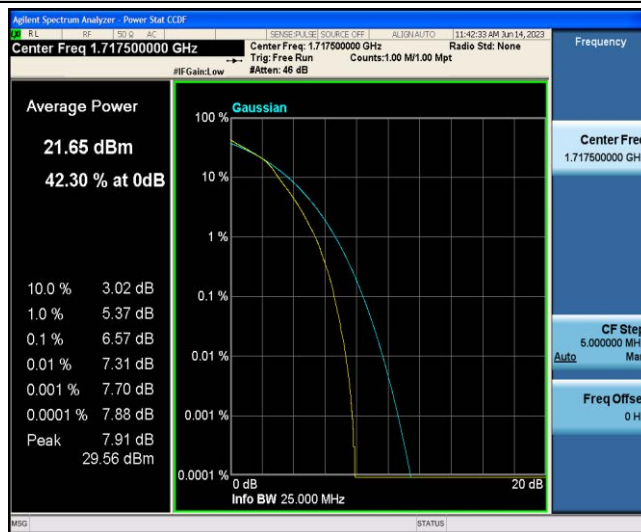
Band4-15MHz-QPSK-20325-75RB#0



Band4-15MHz-16QAM-20025-1RB#0



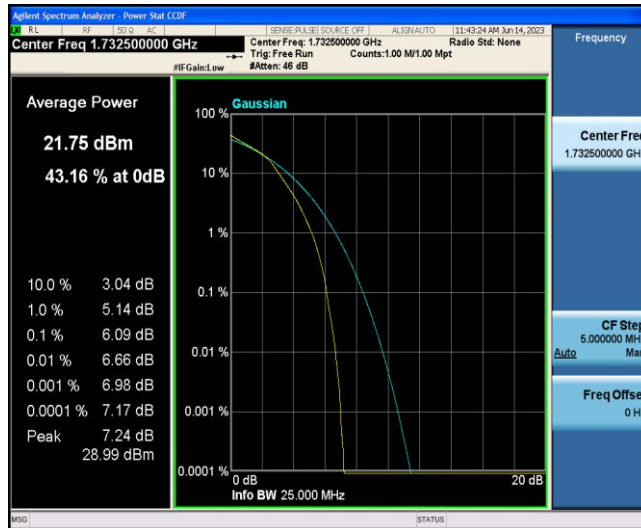
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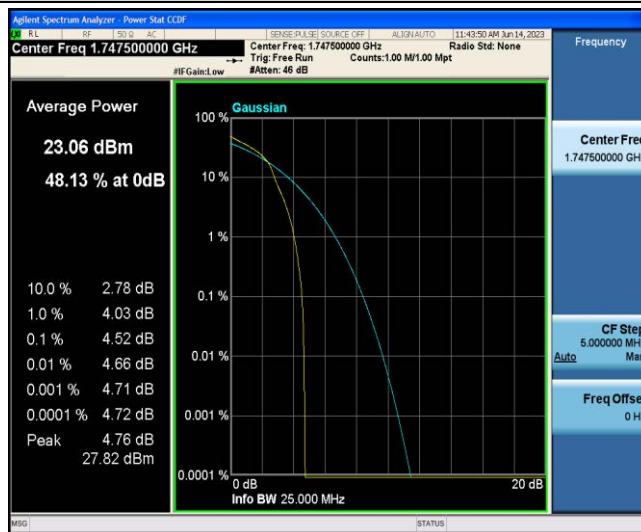
Band4-15MHz-16QAM-20175-1RB#0



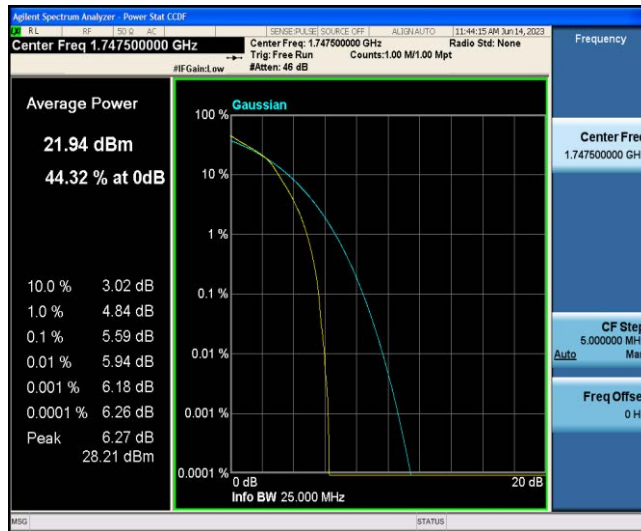
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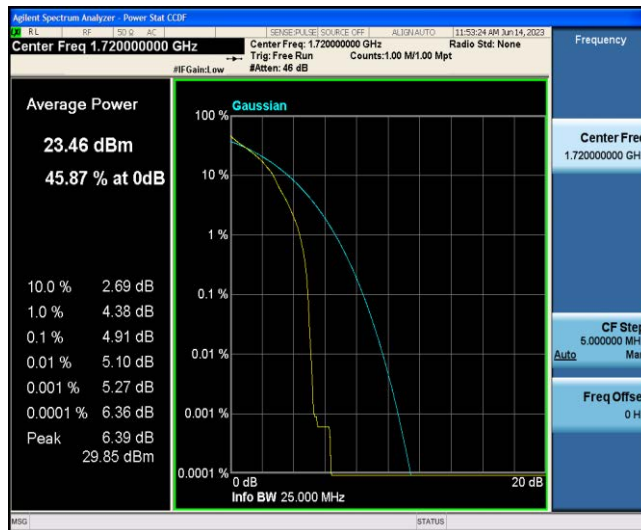
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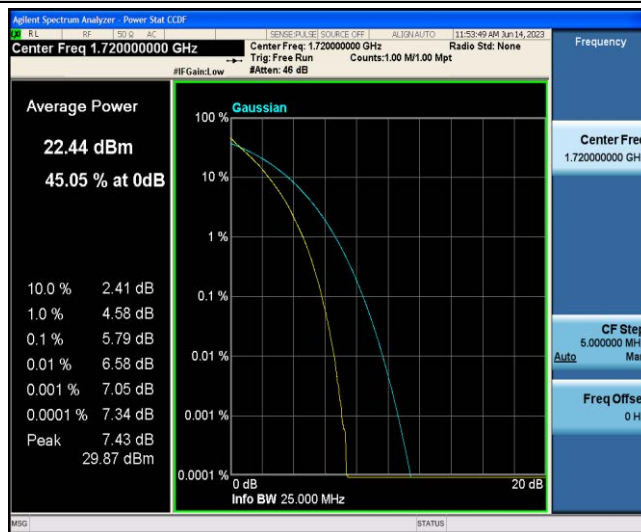
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Band4-20MHz-QPSK-20050-1RB#0



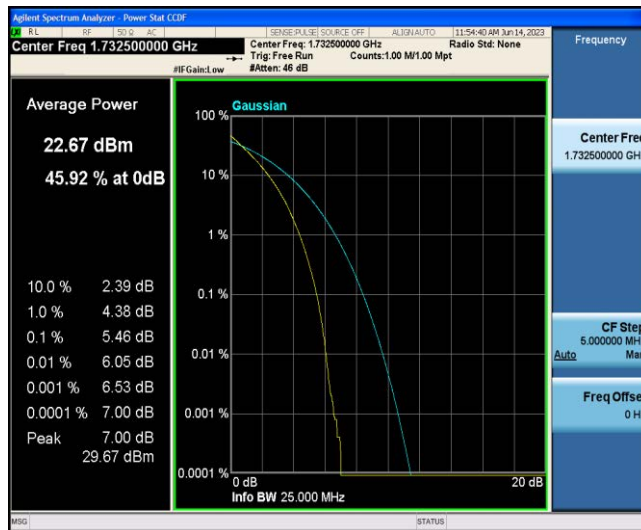
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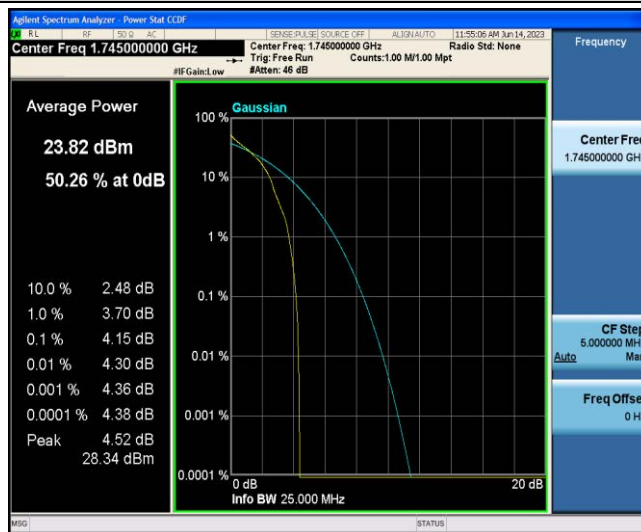
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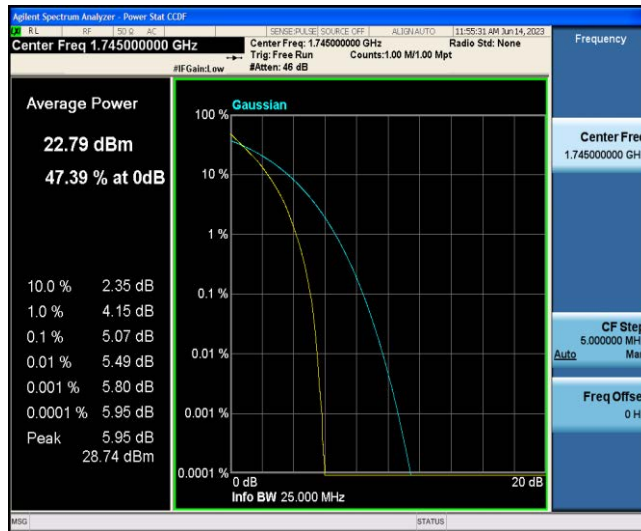
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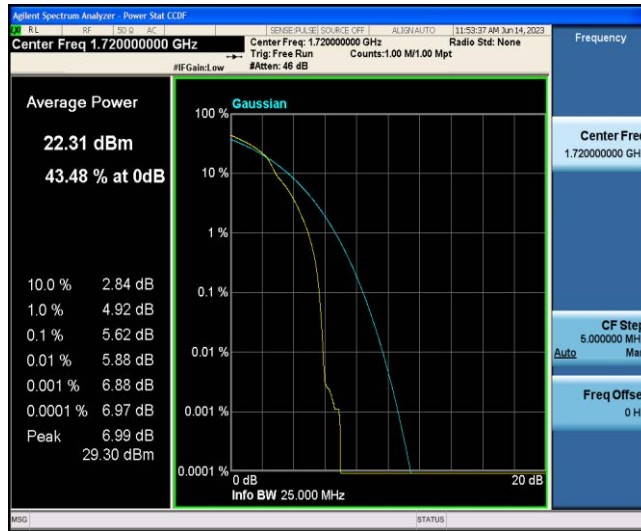
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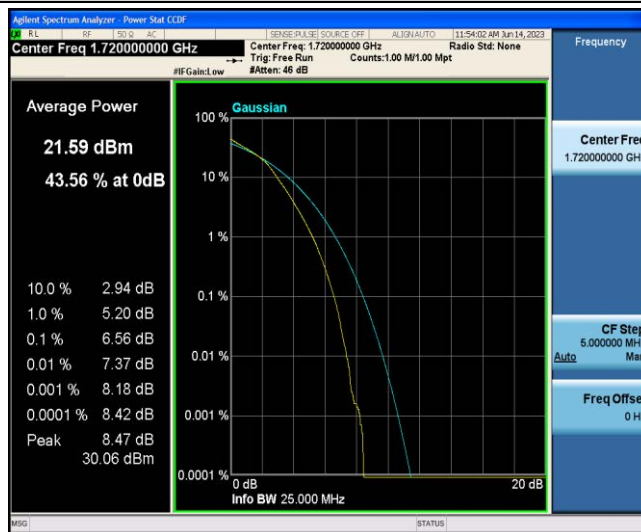
Band4-20MHz-QPSK-20300-100RB#0



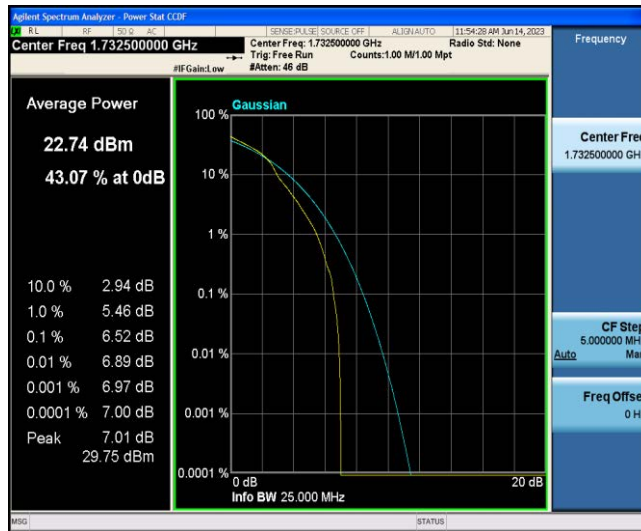
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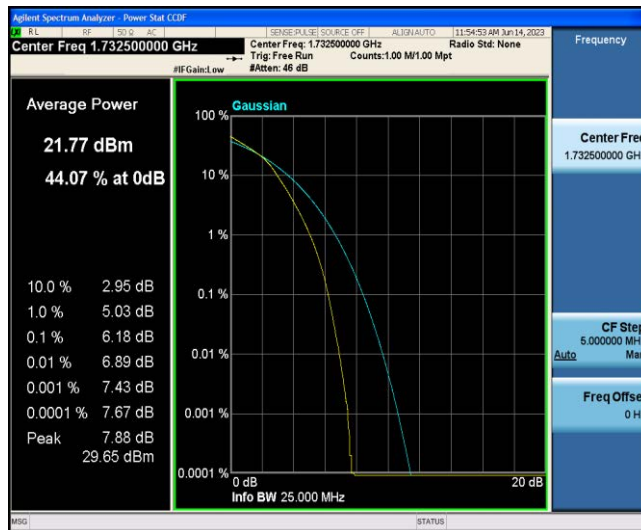
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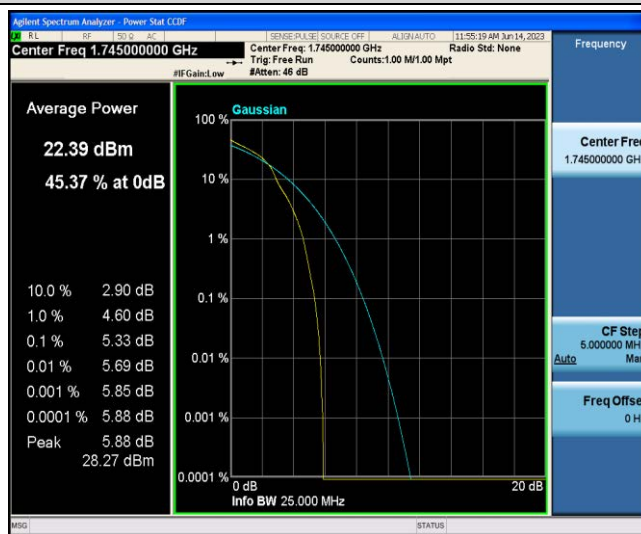
Band4-20MHz-16QAM-20175-1RB#0



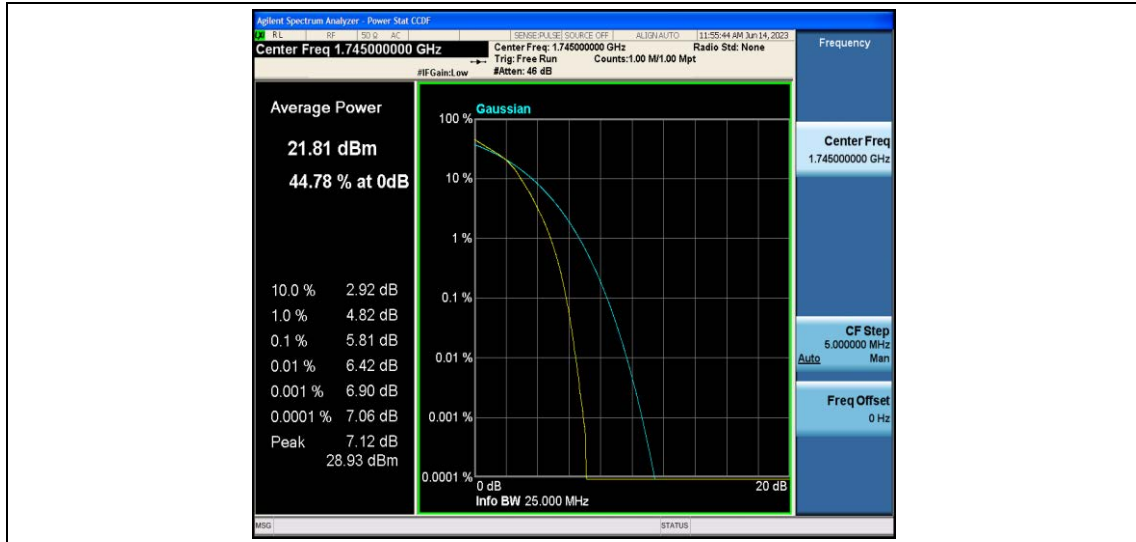
Band4-20MHz-16QAM-20175-100RB#0



Band4-20MHz-16QAM-20300-1RB#0



Band4-20MHz-16QAM-20300-100RB#0



Appendix C: 26dB Bandwidth and Occupied Bandwidth

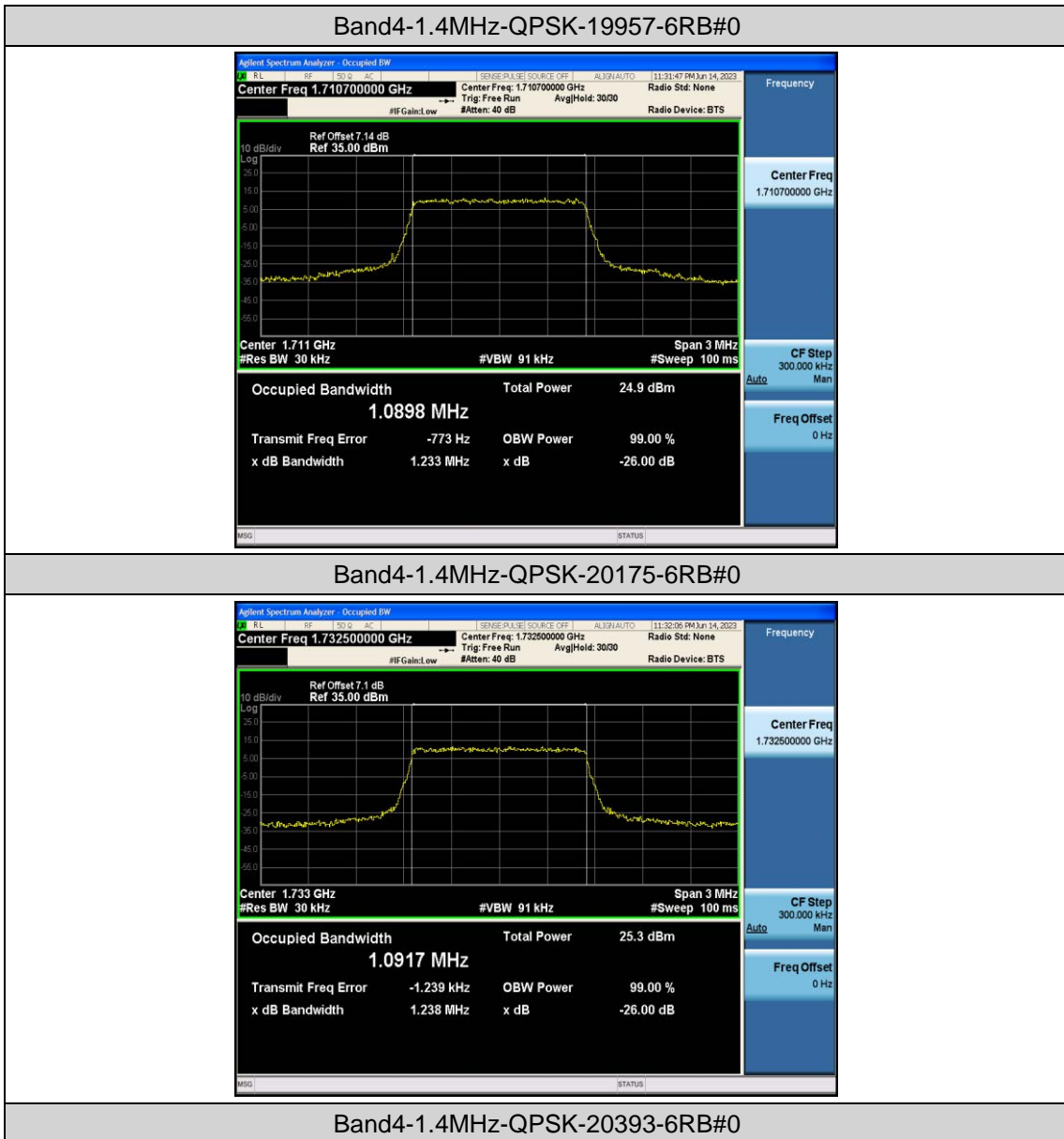
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band4	1.4MHz	QPSK	19957	6RB#0	1.0898	1.233	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	1.0917	1.238	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	1.0919	1.237	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	1.0920	1.239	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	1.0915	1.241	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	1.0904	1.231	PASS
Band4	3MHz	QPSK	19965	15RB#0	2.6937	2.975	PASS
Band4	3MHz	QPSK	20175	15RB#0	2.6997	2.966	PASS
Band4	3MHz	QPSK	20385	15RB#0	2.7010	2.956	PASS
Band4	3MHz	16QAM	19965	15RB#0	2.6953	2.981	PASS
Band4	3MHz	16QAM	20175	15RB#0	2.6951	2.988	PASS
Band4	3MHz	16QAM	20385	15RB#0	2.6982	2.961	PASS
Band4	5MHz	QPSK	19975	25RB#0	4.4991	4.882	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.4948	4.898	PASS
Band4	5MHz	QPSK	20375	25RB#0	4.5006	4.871	PASS
Band4	5MHz	16QAM	19975	25RB#0	4.4848	4.649	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.4984	4.886	PASS
Band4	5MHz	16QAM	20375	25RB#0	4.5031	4.877	PASS
Band4	10MHz	QPSK	20000	50RB#0	8.9967	9.605	PASS
Band4	10MHz	QPSK	20175	50RB#0	8.9884	9.598	PASS
Band4	10MHz	QPSK	20350	50RB#0	8.9867	9.573	PASS
Band4	10MHz	16QAM	20000	50RB#0	8.9814	9.589	PASS
Band4	10MHz	16QAM	20175	50RB#0	8.9822	9.586	PASS
Band4	10MHz	16QAM	20350	50RB#0	8.9795	9.602	PASS
Band4	15MHz	QPSK	20025	75RB#0	13.479	14.33	PASS
Band4	15MHz	QPSK	20175	75RB#0	13.456	14.31	PASS
Band4	15MHz	QPSK	20325	75RB#0	13.471	14.28	PASS
Band4	15MHz	16QAM	20025	75RB#0	13.465	14.29	PASS
Band4	15MHz	16QAM	20175	75RB#0	13.450	14.29	PASS
Band4	15MHz	16QAM	20325	75RB#0	13.455	14.30	PASS
Band4	20MHz	QPSK	20050	100RB#0	17.996	19.02	PASS
Band4	20MHz	QPSK	20175	100RB#0	17.937	19.00	PASS
Band4	20MHz	QPSK	20300	100RB#0	17.967	19.00	PASS



Band4	20MHz	16QAM	20050	100RB#0	17.977	19.04	PASS
Band4	20MHz	16QAM	20175	100RB#0	17.961	18.99	PASS
Band4	20MHz	16QAM	20300	100RB#0	17.962	19.08	PASS

Test Graphs

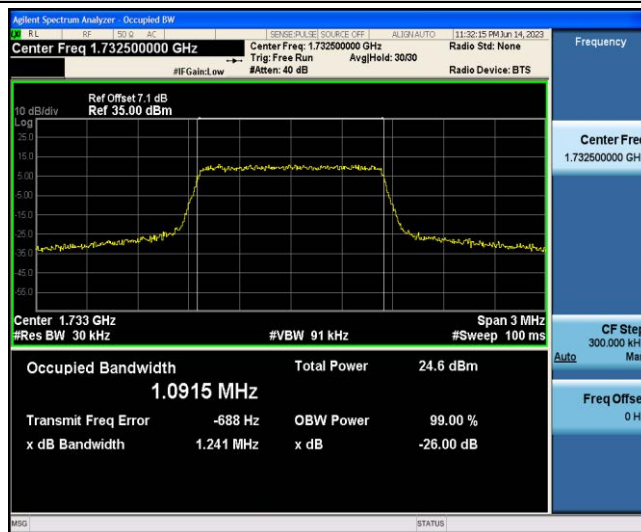




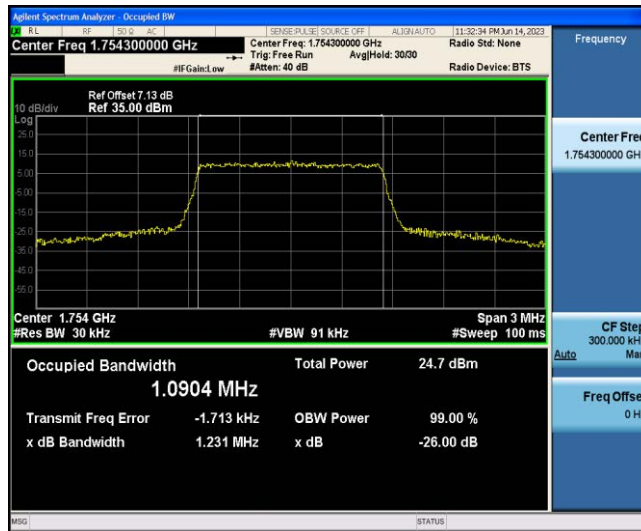
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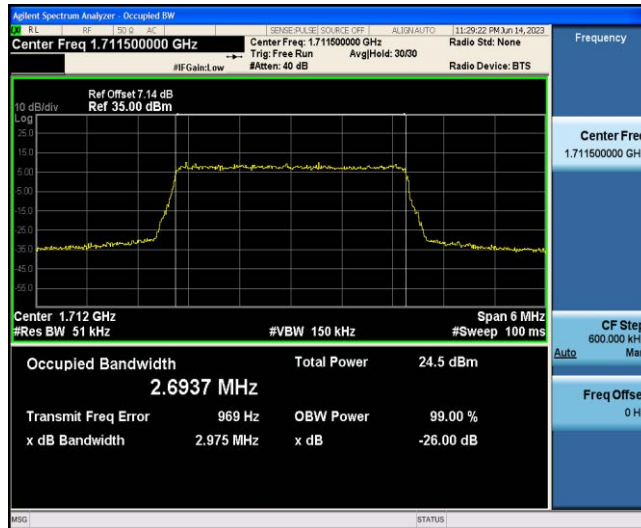
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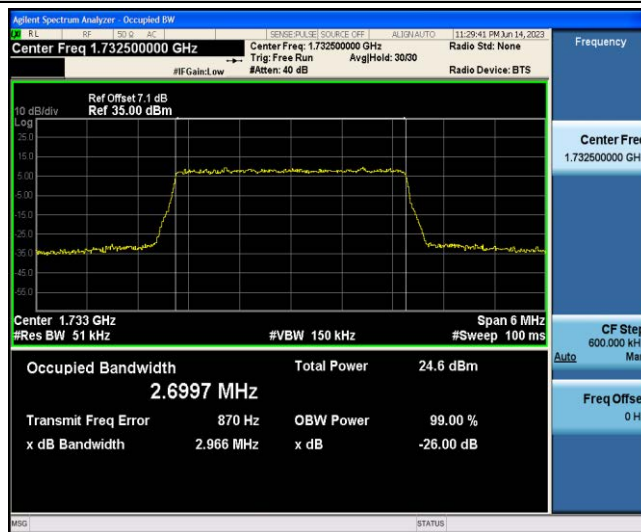
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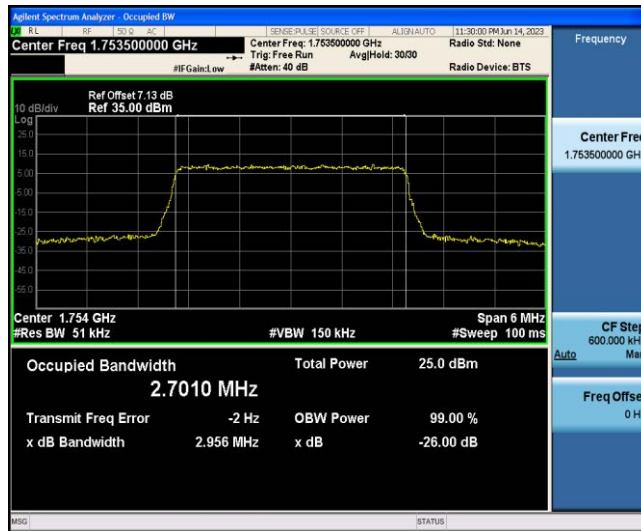
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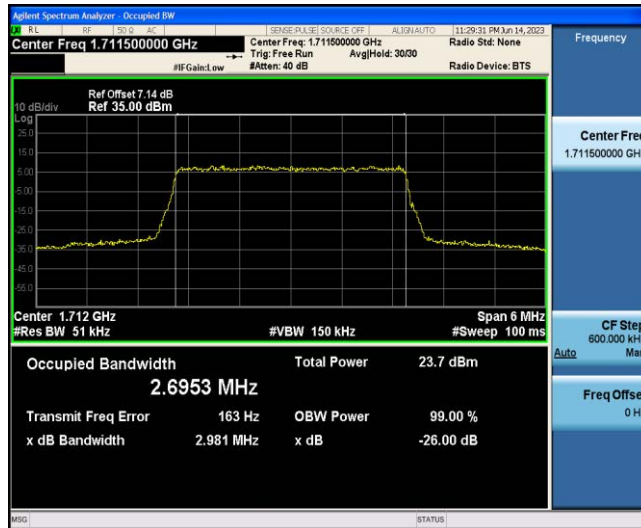
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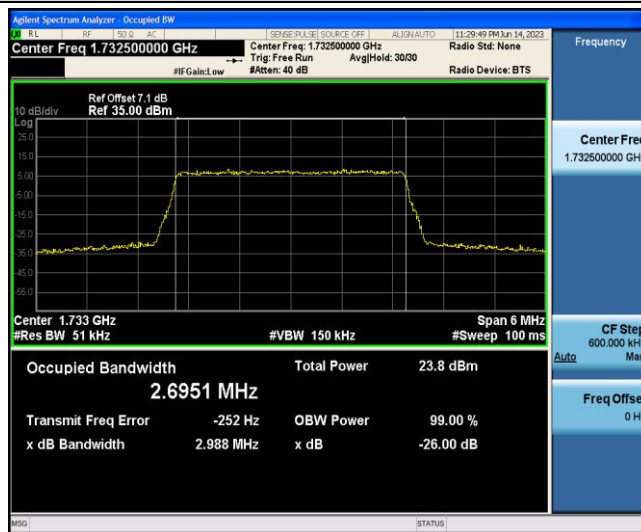
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Band4-3MHz-16QAM-19965-15RB#0



Band4-3MHz-16QAM-20175-15RB#0



Band4-3MHz-16QAM-20385-15RB#0



Band4-5MHz-QPSK-19975-25RB#0



Band4-5MHz-QPSK-20175-25RB#0



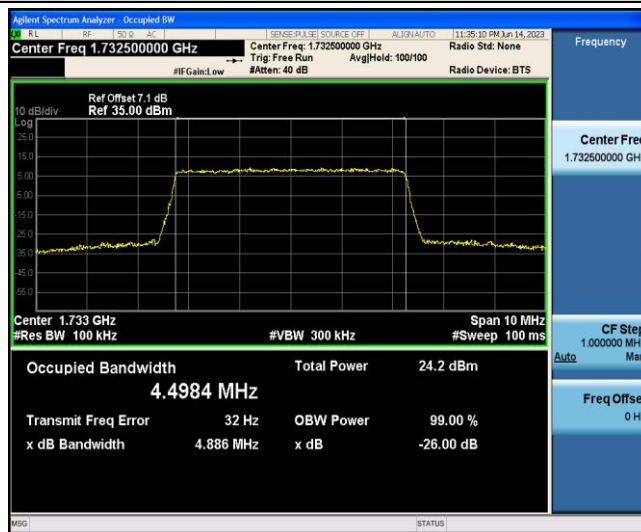
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Band4-5MHz-16QAM-19975-25RB#0



Band4-5MHz-16QAM-20175-25RB#0



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Band4-10MHz-QPSK-20000-50RB#0



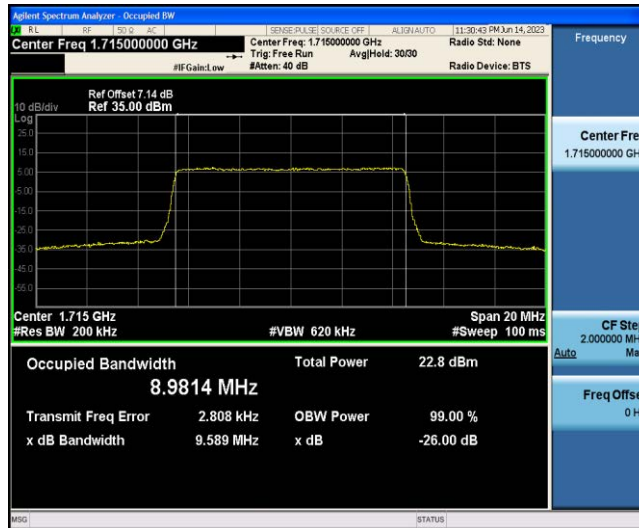
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Band4-10MHz-QPSK-20350-50RB#0



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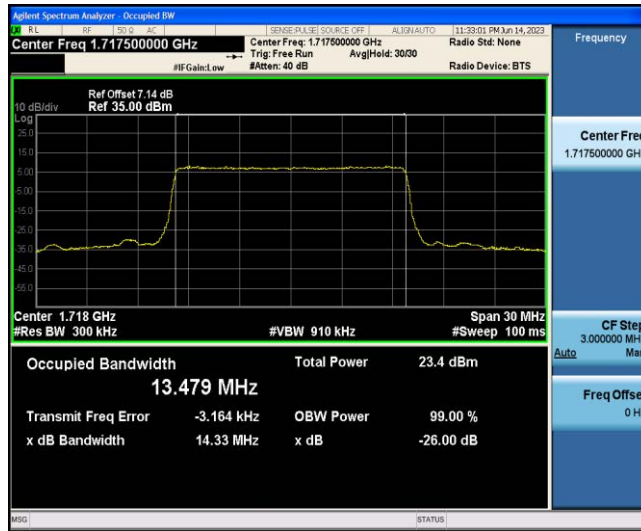
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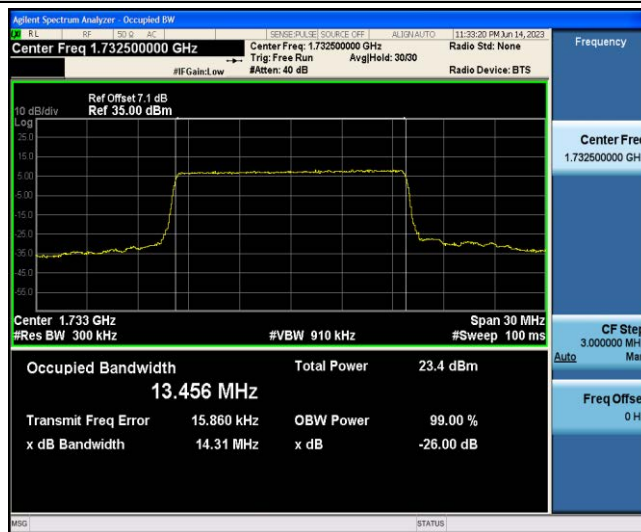
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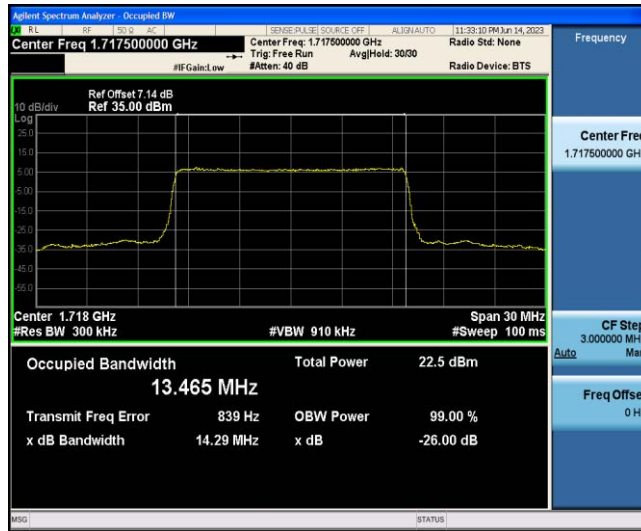
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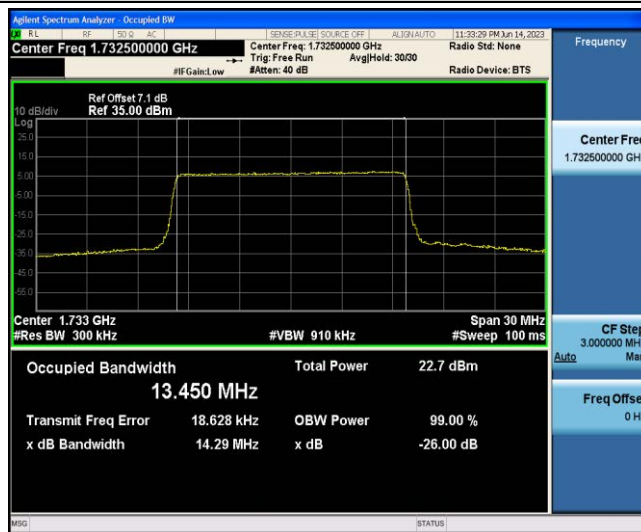
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Band4-15MHz-16QAM-20175-75RB#0



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Band4-20MHz-QPSK-20050-100RB#0



Band4-20MHz-QPSK-20175-100RB#0



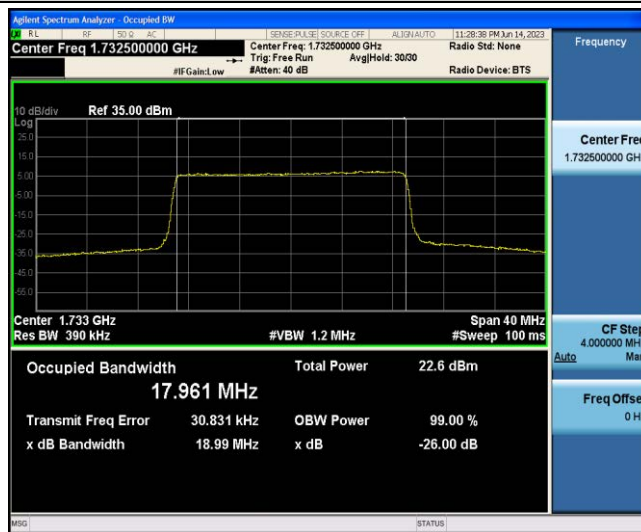
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