Appendix G: Test Data for E-UTRA Band 4

Product Name: Smartphone

Test Model: NET ALPHA

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Taylor Hu
Supervised by:	Ling Zhu

G.1 Conducted Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band4	1.4MHz	QPSK	19957	1RB#0	22.71	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	22.73	PASS
Band4	1.4MHz	QPSK	19957	1RB#2	22.76	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	22.68	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	22.80	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	22.73	PASS
Band4	1.4MHz	QPSK	19957	3RB#0	22.78	PASS
Band4	1.4MHz	16QAM	19957	3RB#0	21.55	PASS
Band4	1.4MHz	QPSK	19957	3RB#1	22.86	PASS
Band4	1.4MHz	16QAM	19957	3RB#1	21.61	PASS
Band4	1.4MHz	QPSK	19957	3RB#3	22.93	PASS
Band4	1.4MHz	16QAM	19957	3RB#3	21.59	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	22.29	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	21.11	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	22.84	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	22.10	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	22.83	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	22.12	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	22.91	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	22.12	PASS
Band4	1.4MHz	QPSK	20175	3RB#0	23.04	PASS
Band4	1.4MHz	16QAM	20175	3RB#0	22.00	PASS
Band4	1.4MHz	QPSK	20175	3RB#1	23.04	PASS
Band4	1.4MHz	16QAM	20175	3RB#1	21.99	PASS
Band4	1.4MHz	QPSK	20175	3RB#3	23.06	PASS
Band4	1.4MHz	16QAM	20175	3RB#3	21.99	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	22.49	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	21.15	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	23.14	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	22.95	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	23.15	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	22.60	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	23.07	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	22.60	PASS
Band4	1.4MHz	QPSK	20393	3RB#0	23.06	PASS
Band4	1.4MHz	16QAM	20393	3RB#0	21.58	PASS

Band4	1.4MHz	QPSK	20393	3RB#1	23.05	PASS
Band4	1.4MHz	16QAM	20393	3RB#1	21.58	PASS
Band4	1.4MHz	QPSK	20393	3RB#3	23.05	PASS
Band4	1.4MHz	16QAM	20393	3RB#3	21.56	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	22.45	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	21.17	PASS
Band4	3MHz	QPSK	19965	1RB#0	22.72	PASS
Band4	3MHz	16QAM	19965	1RB#0	21.94	PASS
Band4	3MHz	QPSK	19965	1RB#8	22.74	PASS
Band4	3MHz	16QAM	19965	1RB#8	21.86	PASS
Band4	3MHz	QPSK	19965	1RB#14	22.78	PASS
Band4	3MHz	16QAM	19965	1RB#14	21.89	PASS
Band4	3MHz	QPSK	19965	8RB#0	22.29	PASS
Band4	3MHz	16QAM	19965	8RB#0	21.02	PASS
Band4	3MHz	QPSK	19965	8RB#4	22.30	PASS
Band4	3MHz	16QAM	19965	8RB#4	20.99	PASS
Band4	3MHz	QPSK	19965	8RB#7	22.35	PASS
Band4	3MHz	16QAM	19965	8RB#7	21.03	PASS
Band4	3MHz	QPSK	19965	15RB#0	22.33	PASS
Band4	3MHz	16QAM	19965	15RB#0	20.97	PASS
Band4	3MHz	QPSK	20175	1RB#0	22.82	PASS
Band4	3MHz	16QAM	20175	1RB#0	21.97	PASS
Band4	3MHz	QPSK	20175	1RB#8	22.92	PASS
Band4	3MHz	16QAM	20175	1RB#8	21.89	PASS
Band4	3MHz	QPSK	20175	1RB#14	22.90	PASS
Band4	3MHz	16QAM	20175	1RB#14	21.88	PASS
Band4	3MHz	QPSK	20175	8RB#0	22.49	PASS
Band4	3MHz	16QAM	20175	8RB#0	21.16	PASS
Band4	3MHz	QPSK	20175	8RB#4	22.50	PASS
Band4	3MHz	16QAM	20175	8RB#4	21.16	PASS
Band4	3MHz	QPSK	20175	8RB#7	22.39	PASS
Band4	3MHz	16QAM	20175	8RB#7	21.20	PASS
Band4	3MHz	QPSK	20175	15RB#0	22.53	PASS
Band4	3MHz	16QAM	20175	15RB#0	20.99	PASS
Band4	3MHz	QPSK	20385	1RB#0	22.87	PASS
Band4	3MHz	16QAM	20385	1RB#0	21.73	PASS
Band4	3MHz	QPSK	20385	1RB#8	22.86	PASS
Band4	3MHz	16QAM	20385	1RB#8	21.73	PASS
Band4	3MHz	QPSK	20385	1RB#14	22.83	PASS
Band4	3MHz	16QAM	20385	1RB#14	21.75	PASS

Band4	3MHz	QPSK	20385	8RB#0	22.52	PASS
Band4	3MHz	16QAM	20385	8RB#0	21.18	PASS
Band4	3MHz	QPSK	20385	8RB#4	22.43	PASS
Band4	3MHz	16QAM	20385	8RB#4	21.13	PASS
Band4	3MHz	QPSK	20385	8RB#7	22.48	PASS
Band4	3MHz	16QAM	20385	8RB#7	21.16	PASS
Band4	3MHz	QPSK	20385	15RB#0	22.42	PASS
Band4	3MHz	16QAM	20385	15RB#0	21.11	PASS
Band4	5MHz	QPSK	19975	1RB#0	22.88	PASS
Band4	5MHz	16QAM	19975	1RB#0	21.22	PASS
Band4	5MHz	QPSK	19975	1RB#12	22.76	PASS
Band4	5MHz	16QAM	19975	1RB#12	21.19	PASS
Band4	5MHz	QPSK	19975	1RB#24	22.81	PASS
Band4	5MHz	16QAM	19975	1RB#24	21.19	PASS
Band4	5MHz	QPSK	19975	12RB#0	22.28	PASS
Band4	5MHz	16QAM	19975	12RB#0	20.90	PASS
Band4	5MHz	QPSK	19975	12RB#6	22.42	PASS
Band4	5MHz	16QAM	19975	12RB#6	20.90	PASS
Band4	5MHz	QPSK	19975	12RB#13	22.35	PASS
Band4	5MHz	16QAM	19975	12RB#13	20.91	PASS
Band4	5MHz	QPSK	19975	25RB#0	22.33	PASS
Band4	5MHz	16QAM	19975	25RB#0	21.06	PASS
Band4	5MHz	QPSK	20175	1RB#0	22.94	PASS
Band4	5MHz	16QAM	20175	1RB#0	21.89	PASS
Band4	5MHz	QPSK	20175	1RB#12	23.05	PASS
Band4	5MHz	16QAM	20175	1RB#12	21.96	PASS
Band4	5MHz	QPSK	20175	1RB#24	23.01	PASS
Band4	5MHz	16QAM	20175	1RB#24	22.03	PASS
Band4	5MHz	QPSK	20175	12RB#0	22.53	PASS
Band4	5MHz	16QAM	20175	12RB#0	21.00	PASS
Band4	5MHz	QPSK	20175	12RB#6	22.44	PASS
Band4	5MHz	16QAM	20175	12RB#6	21.05	PASS
Band4	5MHz	QPSK	20175	12RB#13	22.48	PASS
Band4	5MHz	16QAM	20175	12RB#13	21.04	PASS
Band4	5MHz	QPSK	20175	25RB#0	22.49	PASS
Band4	5MHz	16QAM	20175	25RB#0	20.87	PASS
Band4	5MHz	QPSK	20375	1RB#0	22.98	PASS
Band4	5MHz	16QAM	20375	1RB#0	21.48	PASS
Band4	5MHz	QPSK	20375	1RB#12	22.98	PASS
Band4	5MHz	16QAM	20375	1RB#12	21.53	PASS

Band4	5MHz	QPSK	20375	1RB#24	23.01	PASS
Band4	5MHz	16QAM	20375	1RB#24	21.52	PASS
Band4	5MHz	QPSK	20375	12RB#0	22.46	PASS
Band4	5MHz	16QAM	20375	12RB#0	21.05	PASS
Band4	5MHz	QPSK	20375	12RB#6	22.47	PASS
Band4	5MHz	16QAM	20375	12RB#6	21.12	PASS
Band4	5MHz	QPSK	20375	12RB#13	22.50	PASS
Band4	5MHz	16QAM	20375	12RB#13	21.13	PASS
Band4	5MHz	QPSK	20375	25RB#0	22.55	PASS
Band4	5MHz	16QAM	20375	25RB#0	21.14	PASS
Band4	10MHz	QPSK	20000	1RB#0	22.71	PASS
Band4	10MHz	16QAM	20000	1RB#0	21.95	PASS
Band4	10MHz	QPSK	20000	1RB#24	22.79	PASS
Band4	10MHz	16QAM	20000	1RB#24	21.87	PASS
Band4	10MHz	QPSK	20000	1RB#49	22.80	PASS
Band4	10MHz	16QAM	20000	1RB#49	21.95	PASS
Band4	10MHz	QPSK	20000	25RB#0	22.27	PASS
Band4	10MHz	16QAM	20000	25RB#0	20.99	PASS
Band4	10MHz	QPSK	20000	25RB#12	22.28	PASS
Band4	10MHz	16QAM	20000	25RB#12	20.99	PASS
Band4	10MHz	QPSK	20000	25RB#25	22.45	PASS
Band4	10MHz	16QAM	20000	25RB#25	20.93	PASS
Band4	10MHz	QPSK	20000	50RB#0	22.43	PASS
Band4	10MHz	16QAM	20000	50RB#0	20.92	PASS
Band4	10MHz	QPSK	20175	1RB#0	22.94	PASS
Band4	10MHz	16QAM	20175	1RB#0	21.58	PASS
Band4	10MHz	QPSK	20175	1RB#24	22.98	PASS
Band4	10MHz	16QAM	20175	1RB#24	21.63	PASS
Band4	10MHz	QPSK	20175	1RB#49	22.96	PASS
Band4	10MHz	16QAM	20175	1RB#49	21.60	PASS
Band4	10MHz	QPSK	20175	25RB#0	22.41	PASS
Band4	10MHz	16QAM	20175	25RB#0	21.21	PASS
Band4	10MHz	QPSK	20175	25RB#12	22.41	PASS
Band4	10MHz	16QAM	20175	25RB#12	21.20	PASS
Band4	10MHz	QPSK	20175	25RB#25	22.60	PASS
Band4	10MHz	16QAM	20175	25RB#25	21.16	PASS
Band4	10MHz	QPSK	20175	50RB#0	22.49	PASS
Band4	10MHz	16QAM	20175	50RB#0	21.03	PASS
Band4	10MHz	QPSK	20350	1RB#0	22.87	PASS
Band4	10MHz	16QAM	20350	1RB#0	21.97	PASS

Band4	10MHz	QPSK	20350	1RB#24	22.98	PASS
Band4	10MHz	16QAM	20350	1RB#24	22.00	PASS
Band4	10MHz	QPSK	20350	1RB#49	22.96	PASS
Band4	10MHz	16QAM	20350	1RB#49	21.92	PASS
Band4	10MHz	QPSK	20350	25RB#0	22.56	PASS
Band4	10MHz	16QAM	20350	25RB#0	21.12	PASS
Band4	10MHz	QPSK	20350	25RB#12	22.55	PASS
Band4	10MHz	16QAM	20350	25RB#12	21.04	PASS
Band4	10MHz	QPSK	20350	25RB#25	22.42	PASS
Band4	10MHz	16QAM	20350	25RB#25	21.05	PASS
Band4	10MHz	QPSK	20350	50RB#0	22.55	PASS
Band4	10MHz	16QAM	20350	50RB#0	21.18	PASS
Band4	15MHz	QPSK	20025	1RB#0	22.69	PASS
Band4	15MHz	16QAM	20025	1RB#0	21.66	PASS
Band4	15MHz	QPSK	20025	1RB#38	22.72	PASS
Band4	15MHz	16QAM	20025	1RB#38	21.70	PASS
Band4	15MHz	QPSK	20025	1RB#74	22.79	PASS
Band4	15MHz	16QAM	20025	1RB#74	21.79	PASS
Band4	15MHz	QPSK	20025	38RB#0	22.31	PASS
Band4	15MHz	16QAM	20025	38RB#0	22.30	PASS
Band4	15MHz	QPSK	20025	38RB#18	22.29	PASS
Band4	15MHz	16QAM	20025	38RB#18	22.29	PASS
Band4	15MHz	QPSK	20025	38RB#37	22.28	PASS
Band4	15MHz	16QAM	20025	38RB#37	22.28	PASS
Band4	15MHz	QPSK	20025	75RB#0	22.28	PASS
Band4	15MHz	16QAM	20025	75RB#0	20.91	PASS
Band4	15MHz	QPSK	20175	1RB#0	22.80	PASS
Band4	15MHz	16QAM	20175	1RB#0	22.16	PASS
Band4	15MHz	QPSK	20175	1RB#38	22.75	PASS
Band4	15MHz	16QAM	20175	1RB#38	22.02	PASS
Band4	15MHz	QPSK	20175	1RB#74	22.75	PASS
Band4	15MHz	16QAM	20175	1RB#74	22.02	PASS
Band4	15MHz	QPSK	20175	38RB#0	22.43	PASS
Band4	15MHz	16QAM	20175	38RB#0	22.46	PASS
Band4	15MHz	QPSK	20175	38RB#18	22.46	PASS
Band4	15MHz	16QAM	20175	38RB#18	22.46	PASS
Band4	15MHz	QPSK	20175	38RB#37	22.46	PASS
Band4	15MHz	16QAM	20175	38RB#37	22.46	PASS
Band4	15MHz	QPSK	20175	75RB#0	22.45	PASS
Band4	15MHz	16QAM	20175	75RB#0	21.04	PASS

Band4	15MHz	QPSK	20325	1RB#0	22.85	PASS
Band4	15MHz	16QAM	20325	1RB#0	21.99	PASS
Band4	15MHz	QPSK	20325	1RB#38	22.89	PASS
Band4	15MHz	16QAM	20325	1RB#38	21.98	PASS
Band4	15MHz	QPSK	20325	1RB#74	22.90	PASS
Band4	15MHz	16QAM	20325	1RB#74	21.95	PASS
Band4	15MHz	QPSK	20325	38RB#0	22.49	PASS
Band4	15MHz	16QAM	20325	38RB#0	22.49	PASS
Band4	15MHz	QPSK	20325	38RB#18	22.48	PASS
Band4	15MHz	16QAM	20325	38RB#18	22.48	PASS
Band4	15MHz	QPSK	20325	38RB#37	22.48	PASS
Band4	15MHz	16QAM	20325	38RB#37	22.48	PASS
Band4	15MHz	QPSK	20325	75RB#0	22.48	PASS
Band4	15MHz	16QAM	20325	75RB#0	21.10	PASS
Band4	20MHz	QPSK	20050	1RB#0	22.94	PASS
Band4	20MHz	16QAM	20050	1RB#0	21.88	PASS
Band4	20MHz	QPSK	20050	1RB#49	22.98	PASS
Band4	20MHz	16QAM	20050	1RB#49	21.94	PASS
Band4	20MHz	QPSK	20050	1RB#99	23.02	PASS
Band4	20MHz	16QAM	20050	1RB#99	21.95	PASS
Band4	20MHz	QPSK	20050	50RB#0	22.38	PASS
Band4	20MHz	16QAM	20050	50RB#0	20.98	PASS
Band4	20MHz	QPSK	20050	50RB#25	22.27	PASS
Band4	20MHz	16QAM	20050	50RB#25	21.01	PASS
Band4	20MHz	QPSK	20050	50RB#50	22.28	PASS
Band4	20MHz	16QAM	20050	50RB#50	21.05	PASS
Band4	20MHz	QPSK	20050	100RB#0	22.38	PASS
Band4	20MHz	16QAM	20050	100RB#0	21.00	PASS
Band4	20MHz	QPSK	20175	1RB#0	23.13	PASS
Band4	20MHz	16QAM	20175	1RB#0	22.34	PASS
Band4	20MHz	QPSK	20175	1RB#49	23.17	PASS
Band4	20MHz	16QAM	20175	1RB#49	22.34	PASS
Band4	20MHz	QPSK	20175	1RB#99	23.00	PASS
Band4	20MHz	16QAM	20175	1RB#99	22.27	PASS
Band4	20MHz	QPSK	20175	50RB#0	22.42	PASS
Band4	20MHz	16QAM	20175	50RB#0	21.07	PASS
Band4	20MHz	QPSK	20175	50RB#25	22.47	PASS
Band4	20MHz	16QAM	20175	50RB#25	21.06	PASS
Band4	20MHz	QPSK	20175	50RB#50	22.37	PASS
Band4	20MHz	16QAM	20175	50RB#50	21.07	PASS

Band4	20MHz	QPSK	20175	100RB#0	22.54	PASS
Band4	20MHz	16QAM	20175	100RB#0	21.02	PASS
Band4	20MHz	QPSK	20300	1RB#0	23.37	PASS
Band4	20MHz	16QAM	20300	1RB#0	21.44	PASS
Band4	20MHz	QPSK	20300	1RB#49	23.38	PASS
Band4	20MHz	16QAM	20300	1RB#49	21.35	PASS
Band4	20MHz	QPSK	20300	1RB#99	23.33	PASS
Band4	20MHz	16QAM	20300	1RB#99	21.33	PASS
Band4	20MHz	QPSK	20300	50RB#0	22.45	PASS
Band4	20MHz	16QAM	20300	50RB#0	21.17	PASS
Band4	20MHz	QPSK	20300	50RB#25	22.45	PASS
Band4	20MHz	16QAM	20300	50RB#25	21.16	PASS
Band4	20MHz	QPSK	20300	50RB#50	22.60	PASS
Band4	20MHz	16QAM	20300	50RB#50	21.28	PASS
Band4	20MHz	QPSK	20300	100RB#0	22.55	PASS
Band4	20MHz	16QAM	20300	100RB#0	21.06	PASS

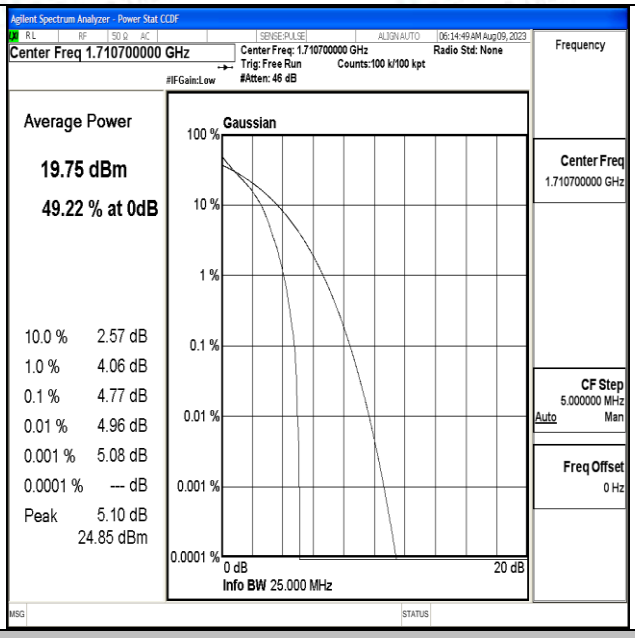
G.2 Peak-to-Average Ratio(CCDF)

Test Result

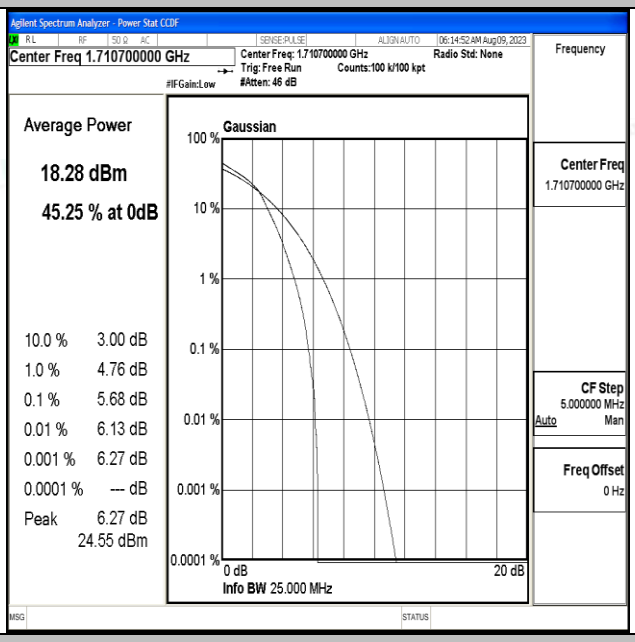
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band4	1.4MHz	QPSK	19957	6RB#0	4.77	13	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	5.68	13	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	4.26	13	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	5.33	13	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	3.88	13	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	4.89	13	PASS
Band4	3MHz	QPSK	19965	1RB#0	4.50	13	PASS
Band4	3MHz	16QAM	19965	1RB#0	5.33	13	PASS
Band4	3MHz	QPSK	19965	15RB#0	4.62	13	PASS
Band4	3MHz	16QAM	19965	15RB#0	5.87	13	PASS
Band4	3MHz	QPSK	20175	1RB#0	4.02	13	PASS
Band4	3MHz	16QAM	20175	1RB#0	4.84	13	PASS
Band4	3MHz	QPSK	20175	15RB#0	4.41	13	PASS
Band4	3MHz	16QAM	20175	15RB#0	5.44	13	PASS
Band4	3MHz	QPSK	20385	1RB#0	3.20	13	PASS
Band4	3MHz	16QAM	20385	1RB#0	4.08	13	PASS
Band4	3MHz	QPSK	20385	15RB#0	3.87	13	PASS
Band4	3MHz	16QAM	20385	15RB#0	5.13	13	PASS
Band4	5MHz	QPSK	19975	25RB#0	4.80	13	PASS
Band4	5MHz	16QAM	19975	25RB#0	5.67	13	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.44	13	PASS
Band4	5MHz	16QAM	20175	25RB#0	5.36	13	PASS
Band4	5MHz	QPSK	20375	25RB#0	3.96	13	PASS
Band4	5MHz	16QAM	20375	25RB#0	5.00	13	PASS
Band4	10MHz	QPSK	20000	50RB#0	4.83	13	PASS
Band4	10MHz	16QAM	20000	50RB#0	5.83	13	PASS
Band4	10MHz	QPSK	20175	50RB#0	4.42	13	PASS
Band4	10MHz	16QAM	20175	50RB#0	5.48	13	PASS
Band4	10MHz	QPSK	20350	50RB#0	3.96	13	PASS
Band4	10MHz	16QAM	20350	50RB#0	5.10	13	PASS
Band4	15MHz	QPSK	20025	1RB#0	4.44	13	PASS
Band4	15MHz	16QAM	20025	1RB#0	5.25	13	PASS
Band4	15MHz	QPSK	20025	75RB#0	5.21	13	PASS
Band4	15MHz	16QAM	20025	75RB#0	6.03	13	PASS
Band4	15MHz	QPSK	20175	1RB#0	4.38	13	PASS
Band4	15MHz	16QAM	20175	1RB#0	5.37	13	PASS

Band4	15MHz	QPSK	20175	75RB#0	4.87	13	PASS
Band4	15MHz	16QAM	20175	75RB#0	5.67	13	PASS
Band4	15MHz	QPSK	20325	1RB#0	3.83	13	PASS
Band4	15MHz	16QAM	20325	1RB#0	4.71	13	PASS
Band4	15MHz	QPSK	20325	75RB#0	4.53	13	PASS
Band4	15MHz	16QAM	20325	75RB#0	5.42	13	PASS
Band4	20MHz	QPSK	20050	100RB#0	5.06	13	PASS
Band4	20MHz	16QAM	20050	100RB#0	5.97	13	PASS
Band4	20MHz	QPSK	20175	100RB#0	4.93	13	PASS
Band4	20MHz	16QAM	20175	100RB#0	5.79	13	PASS
Band4	20MHz	QPSK	20300	100RB#0	4.71	13	PASS
Band4	20MHz	16QAM	20300	100RB#0	5.60	13	PASS

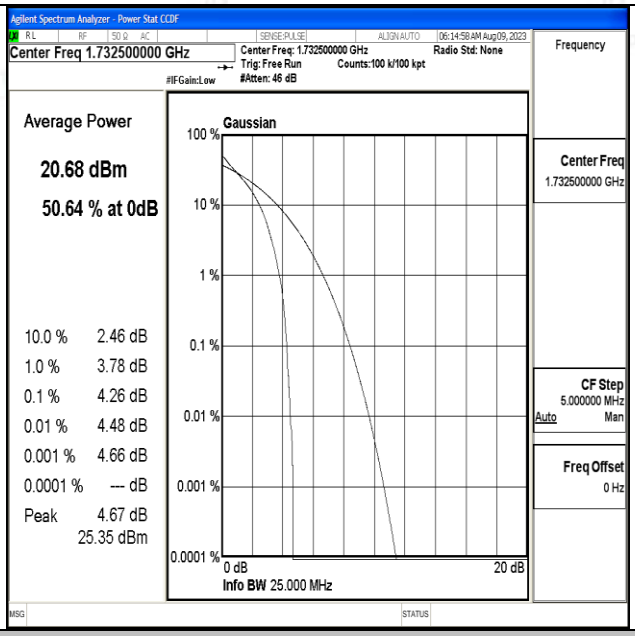
Test Graphs



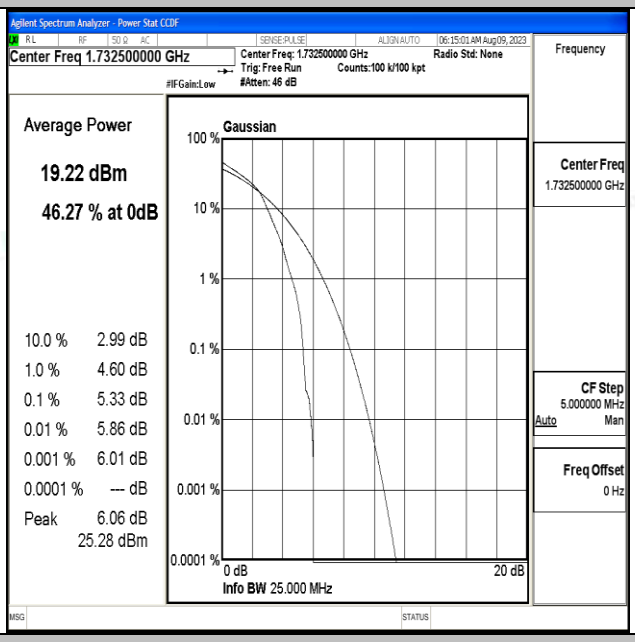
1.4MHz-19957



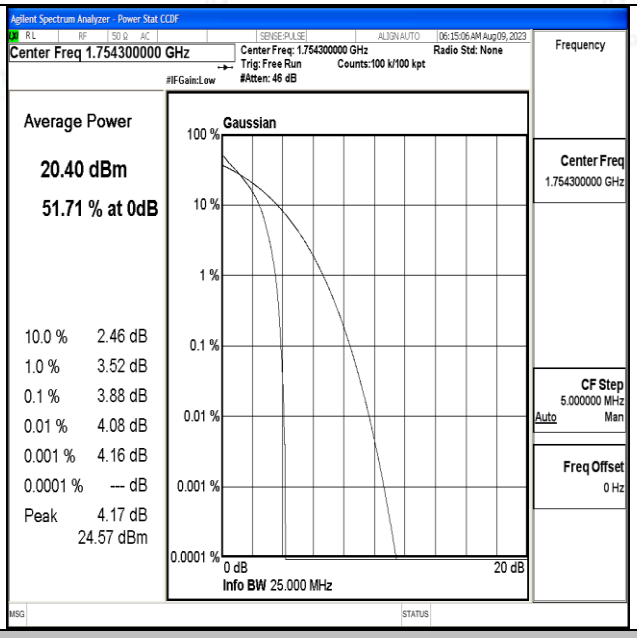
1.4MHz-19957



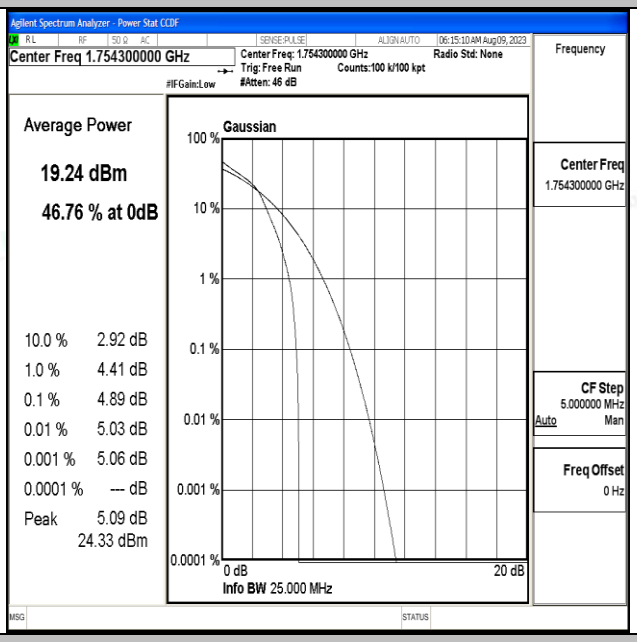
1.4MHz-20175



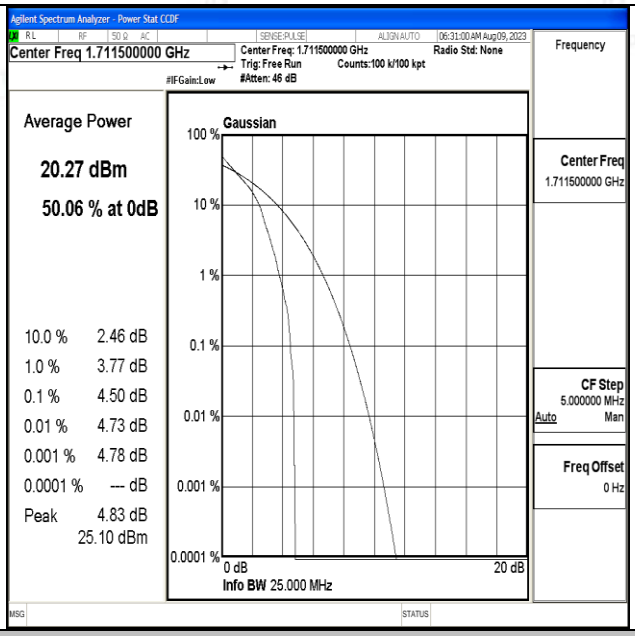
1.4MHz-20175



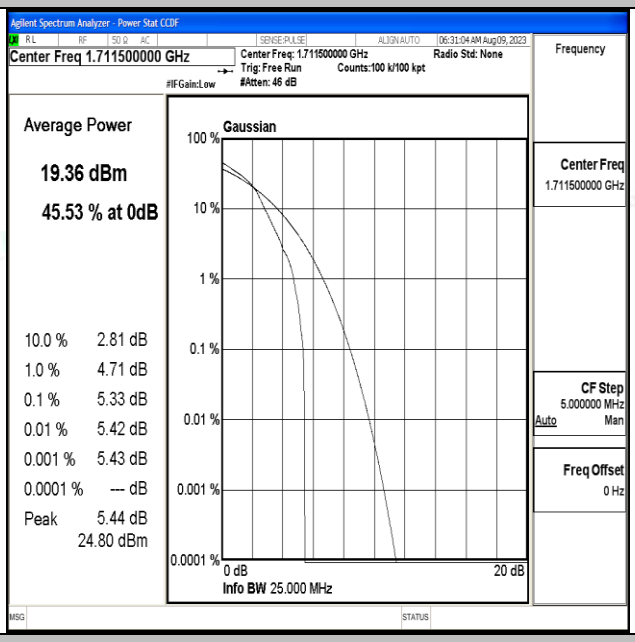
1.4MHz-20393



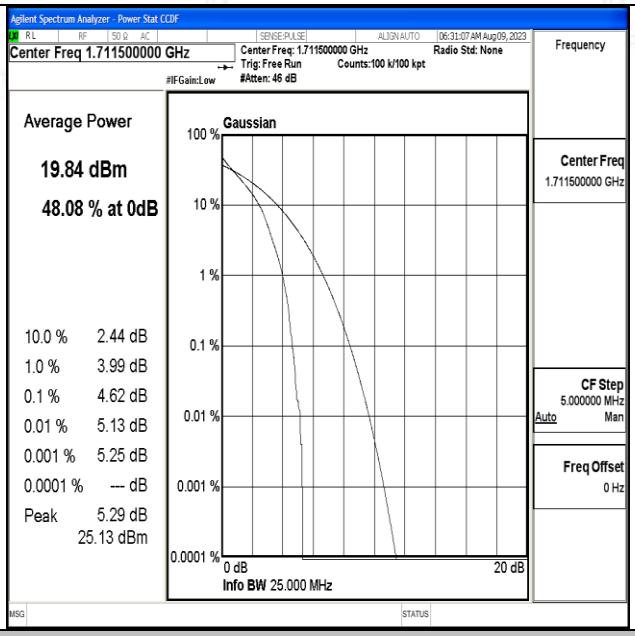
1.4MHz-20393



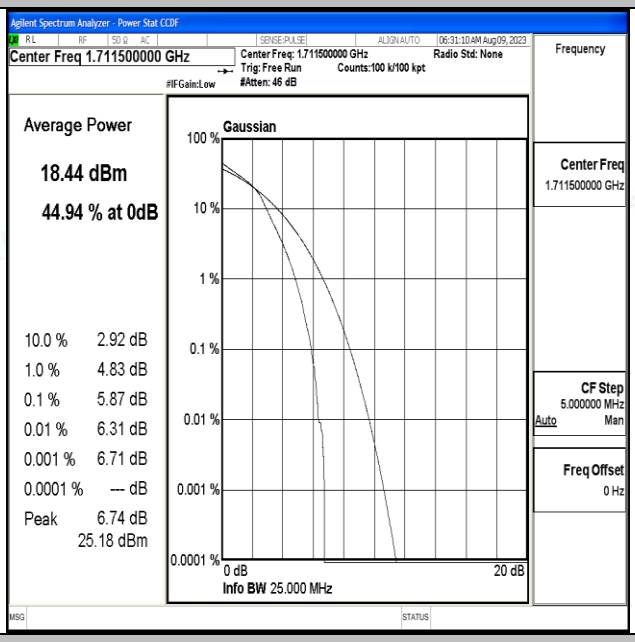
3MHz-19965



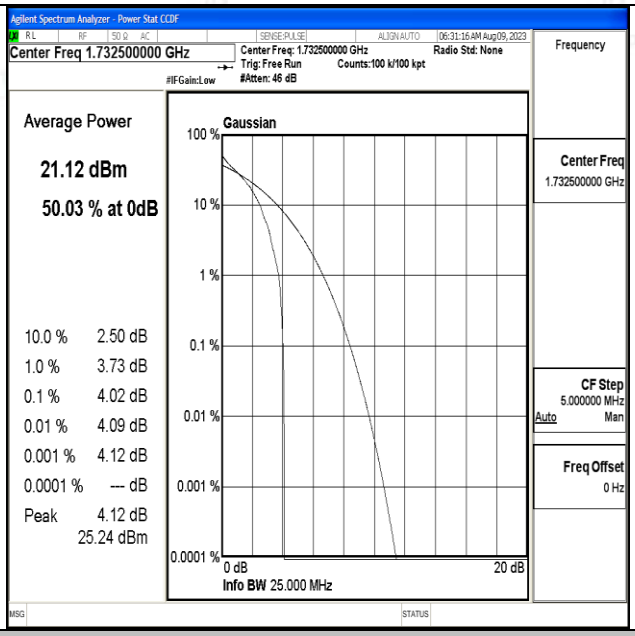
3MHz-19965



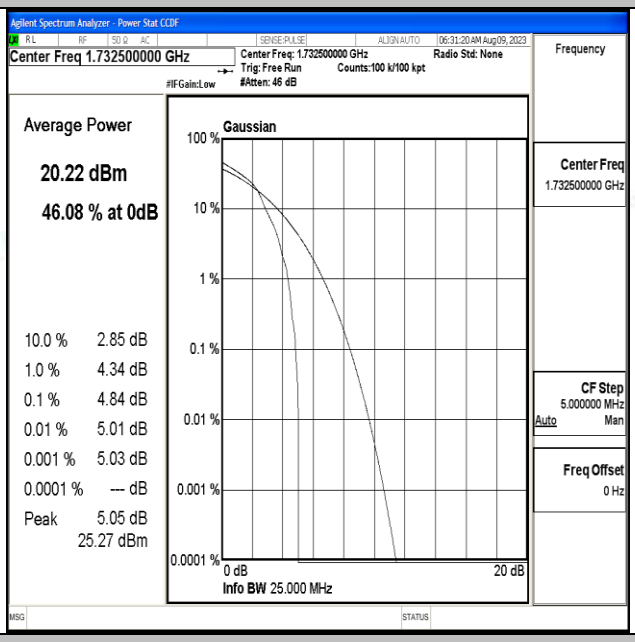
3MHz-19965



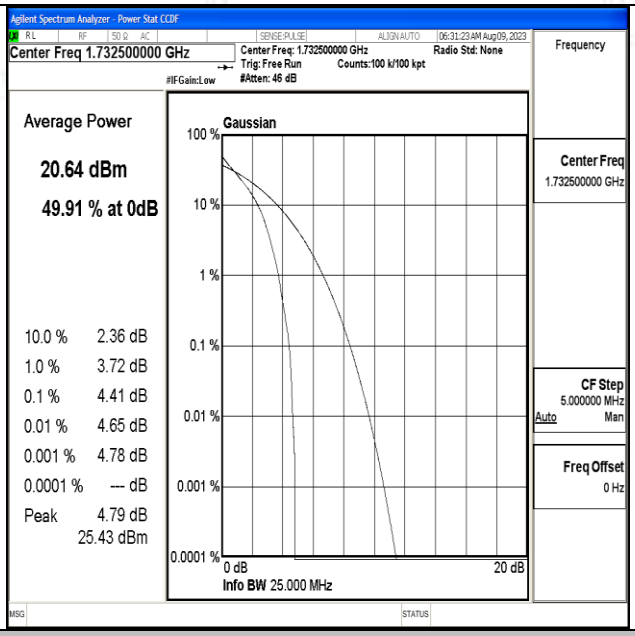
3MHz-19965



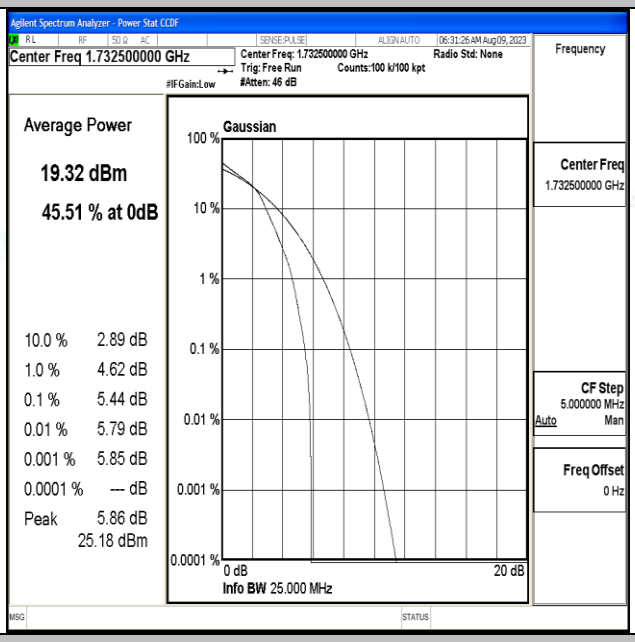
3MHz-20175



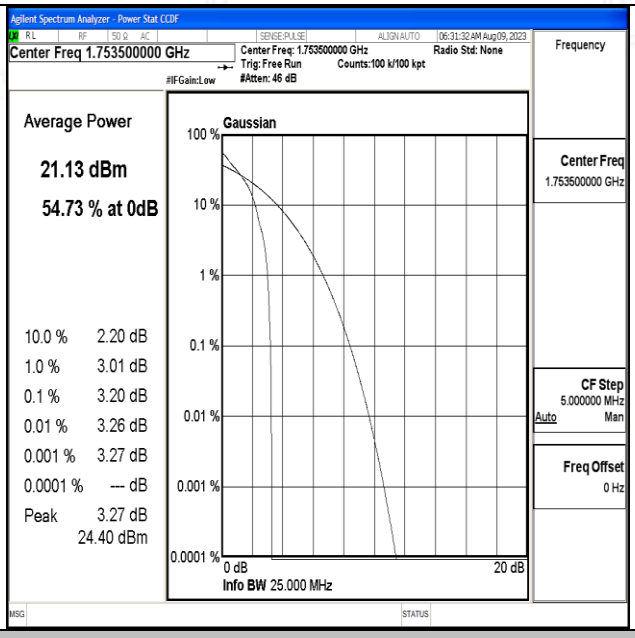
3MHz-20175



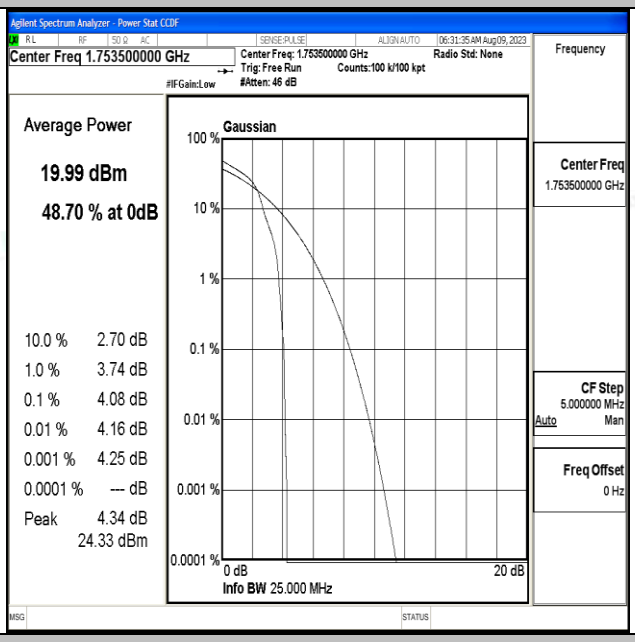
3MHz-20175



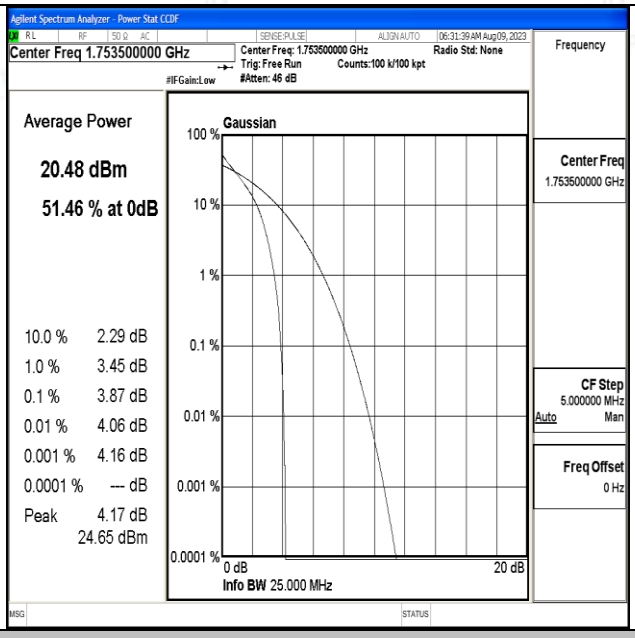
3MHz-20175



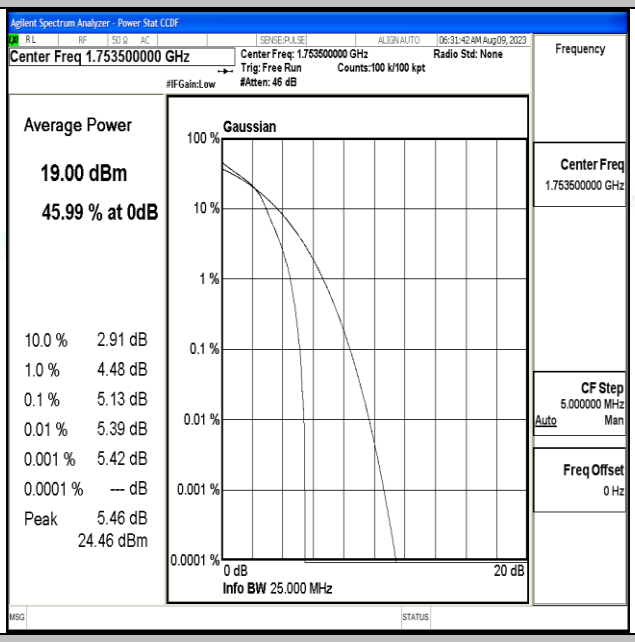
3MHz-20385



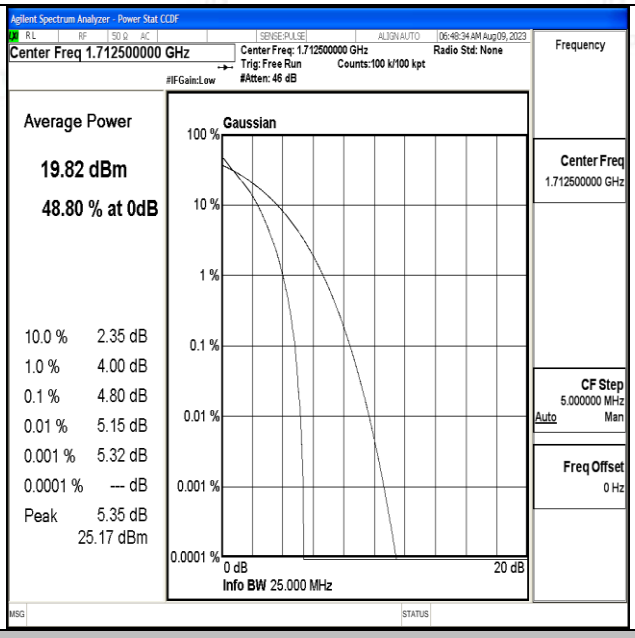
3MHz-20385



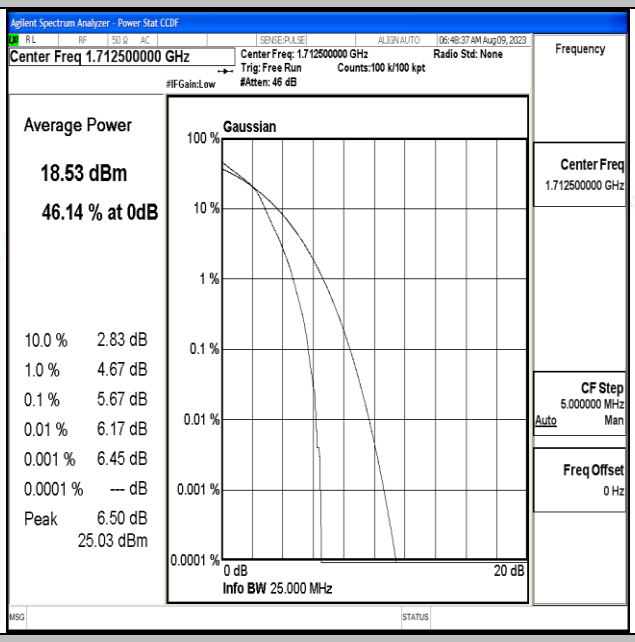
3MHz-20385



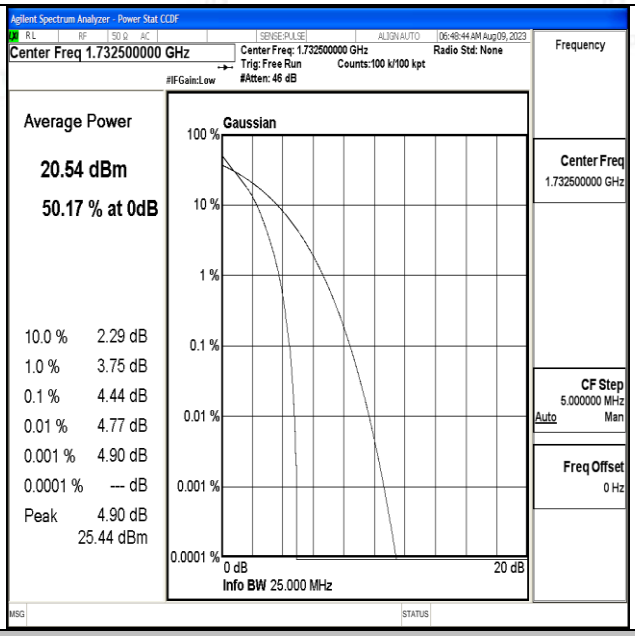
3MHz-20385



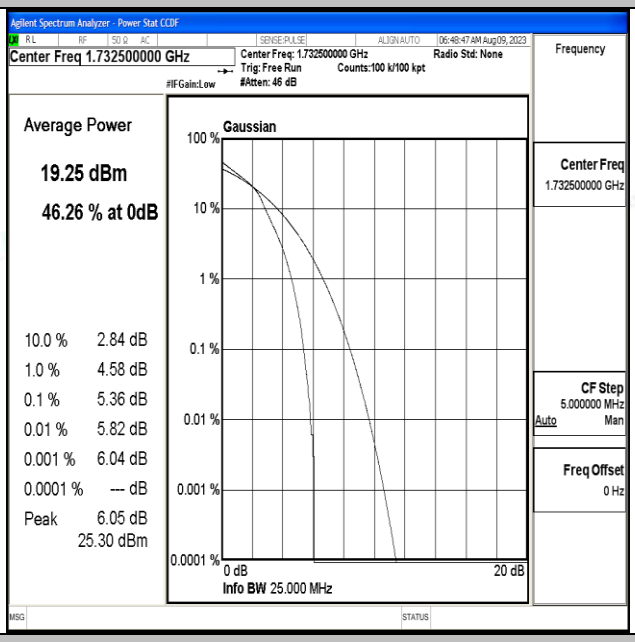
5MHz-19975



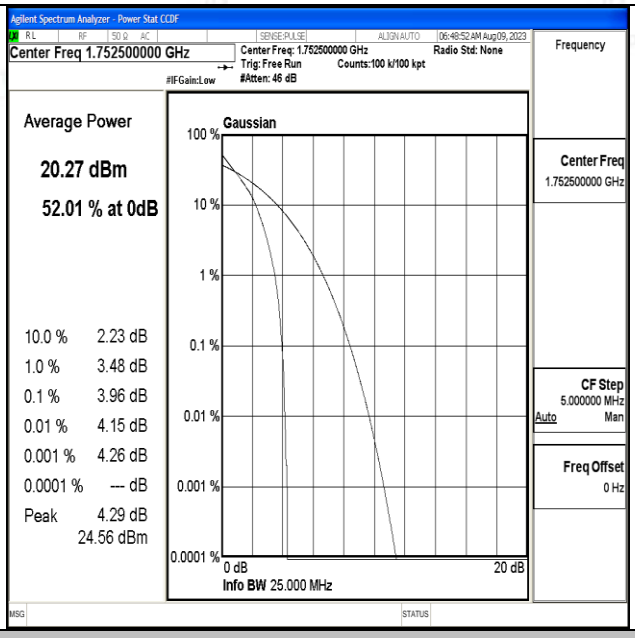
5MHz-19975



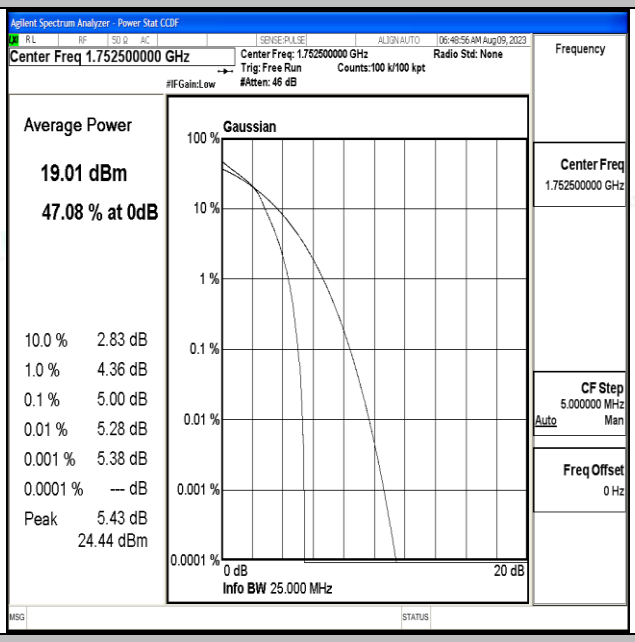
5MHz-20175



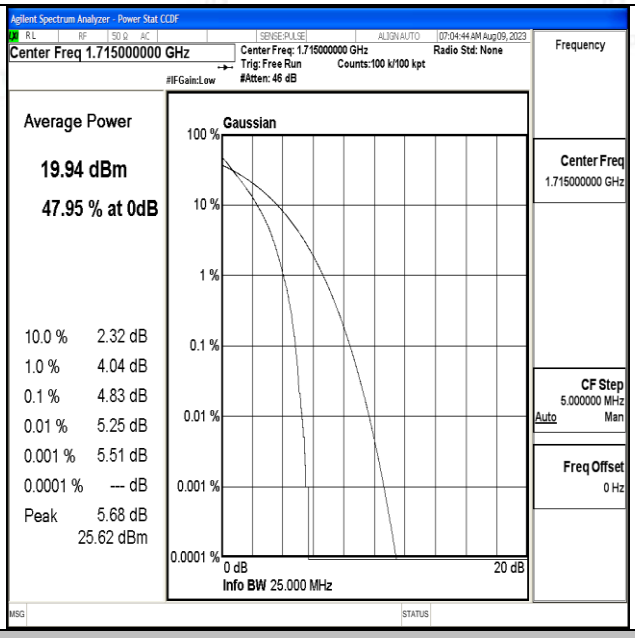
5MHz-20175



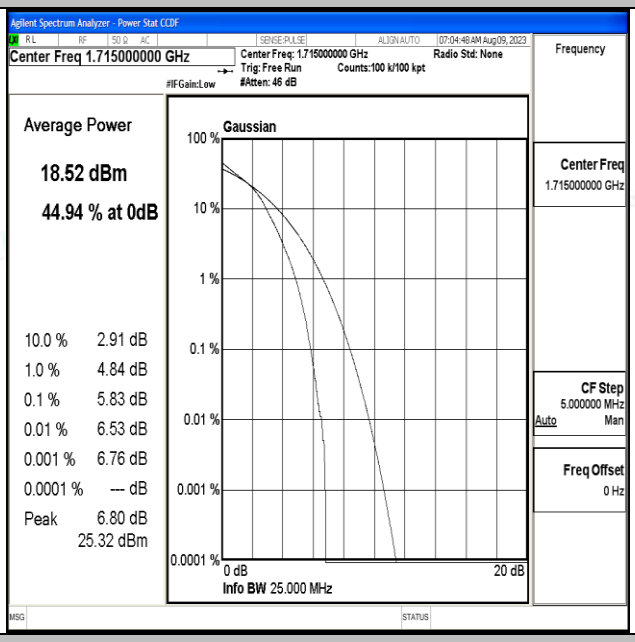
5MHz-20375



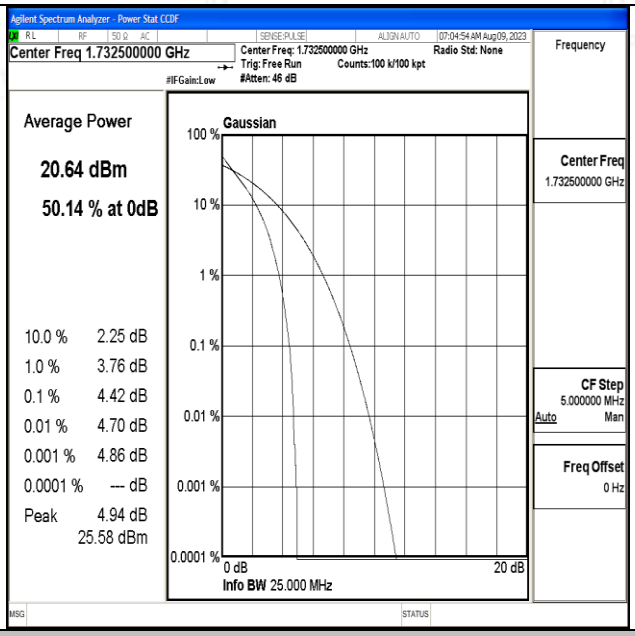
5MHz-20375



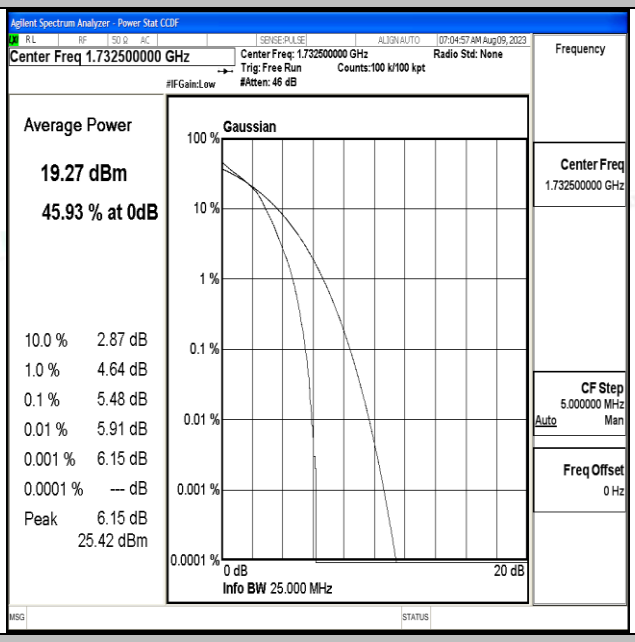
10MHz-20000



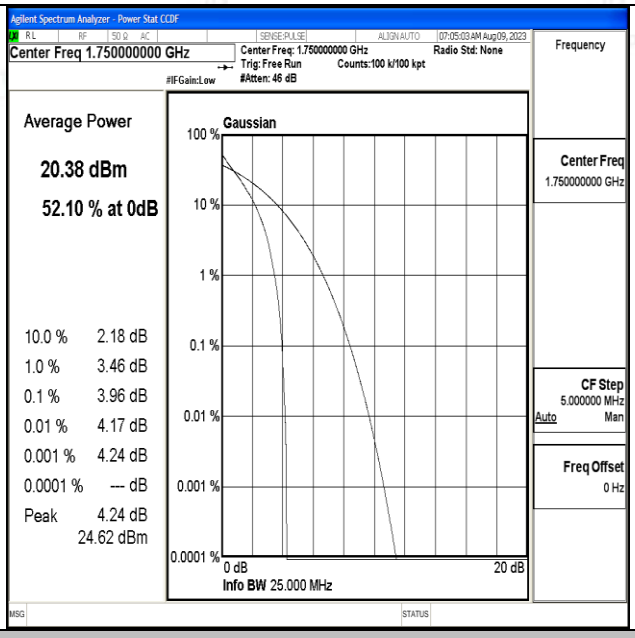
10MHz-20000



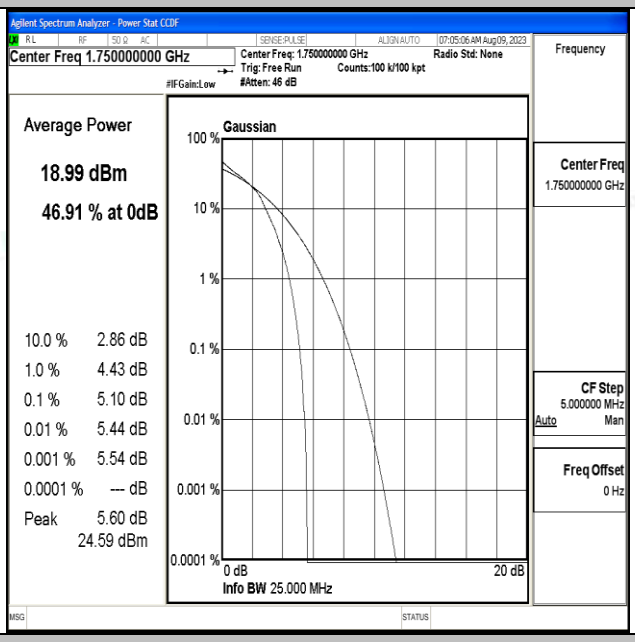
10MHz-20175



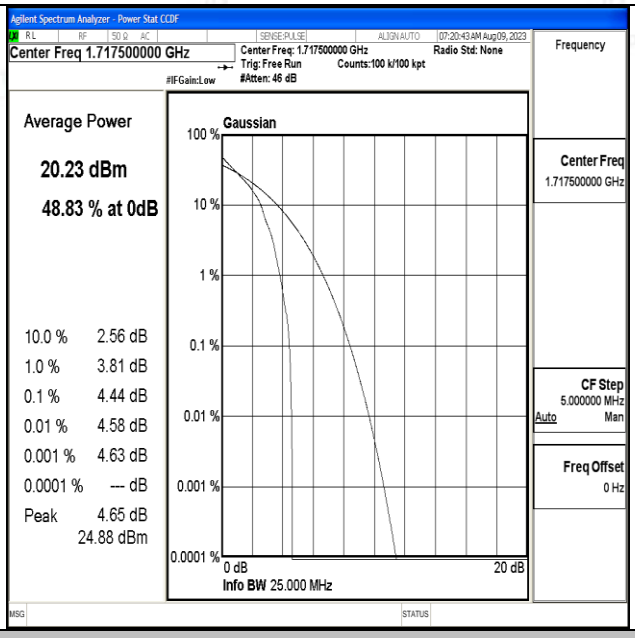
10MHz-20175



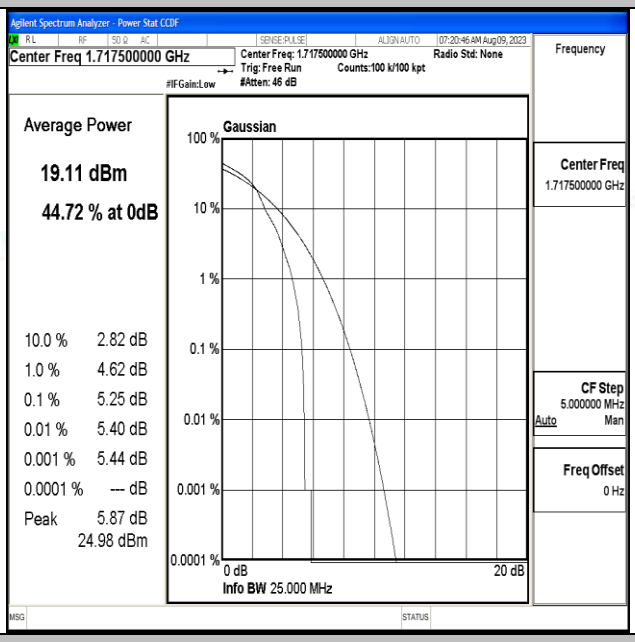
10MHz-20350



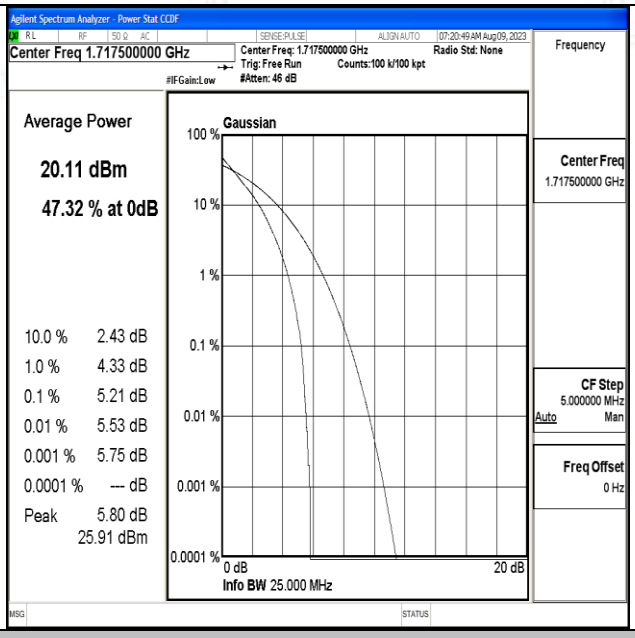
10MHz-20350



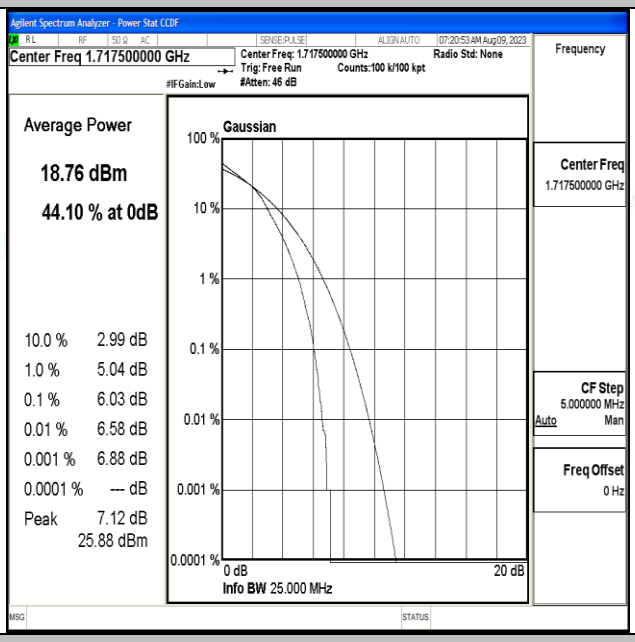
15MHz-20025



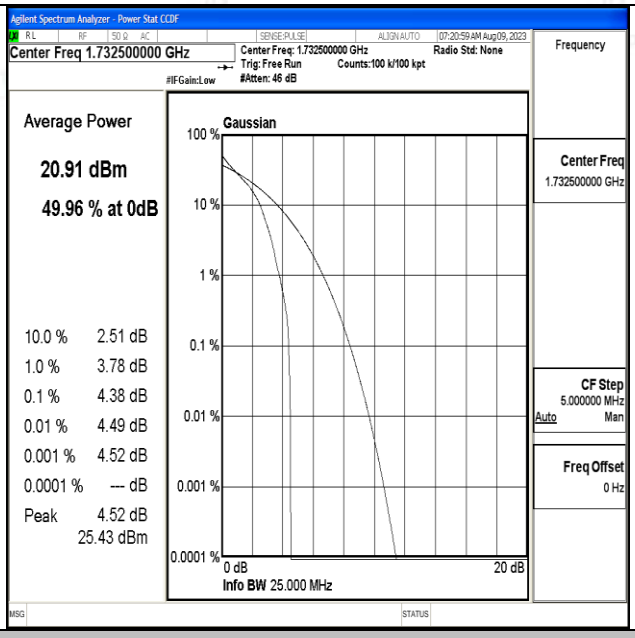
15MHz-20025



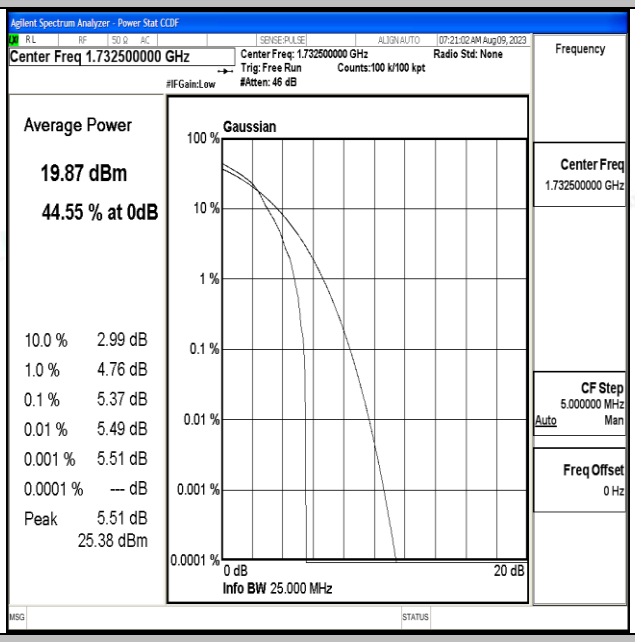
15MHz-20025



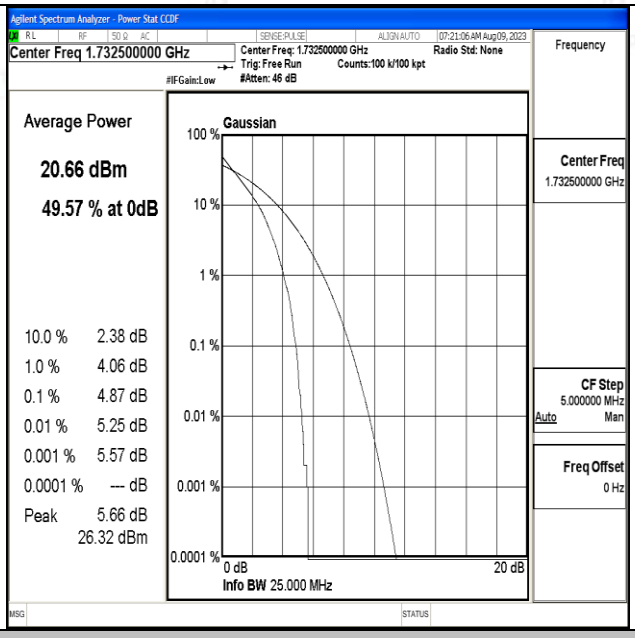
15MHz-20025



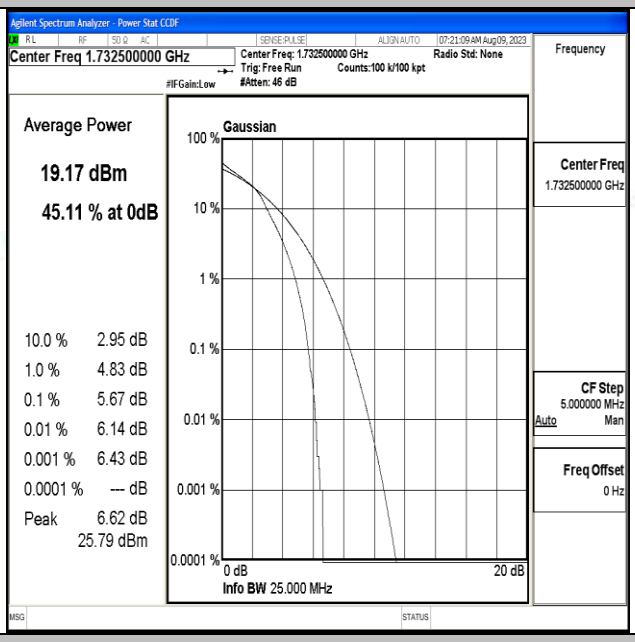
15MHz-20175



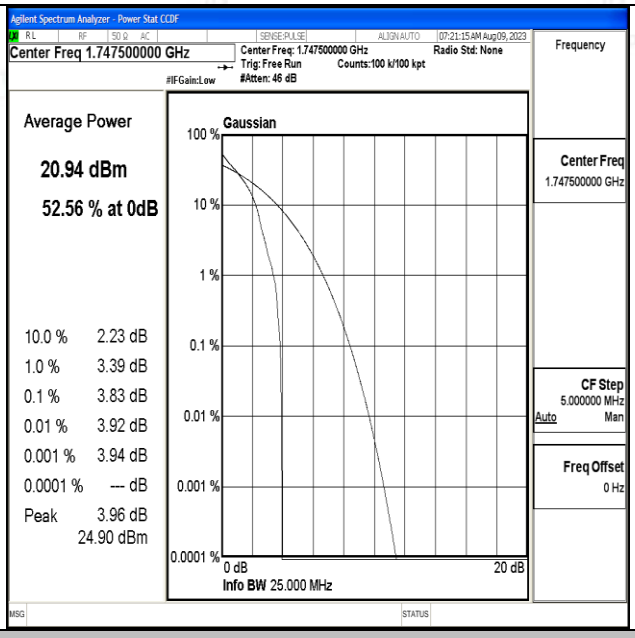
15MHz-20175



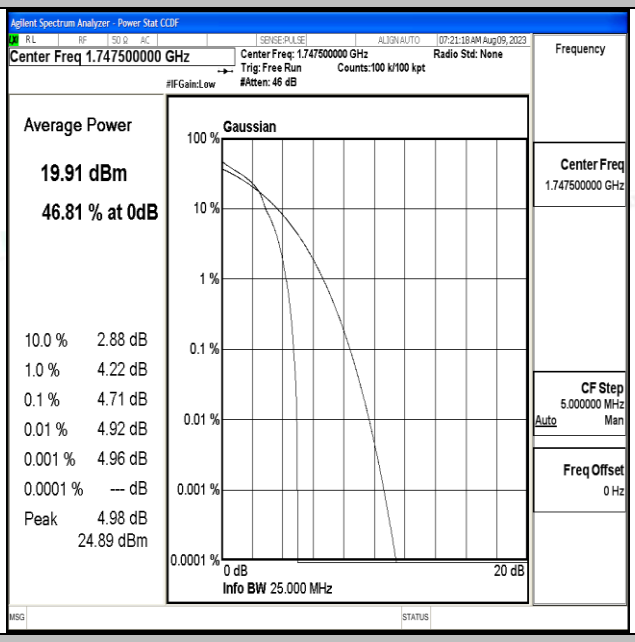
15MHz-20175



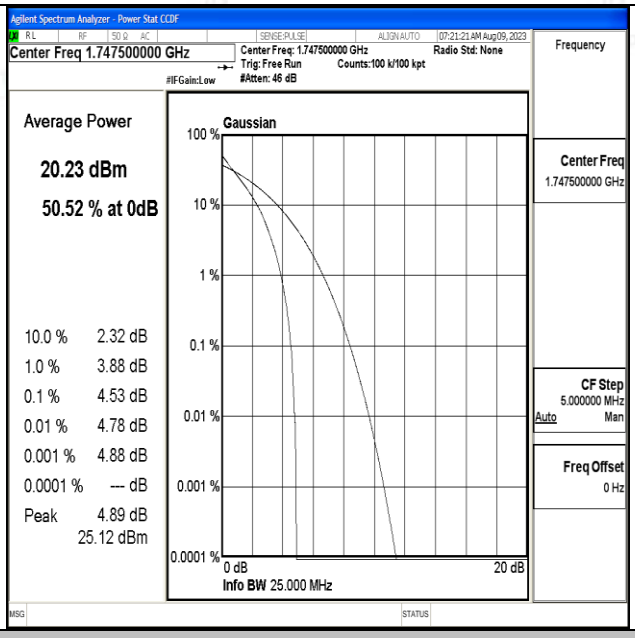
15MHz-20175



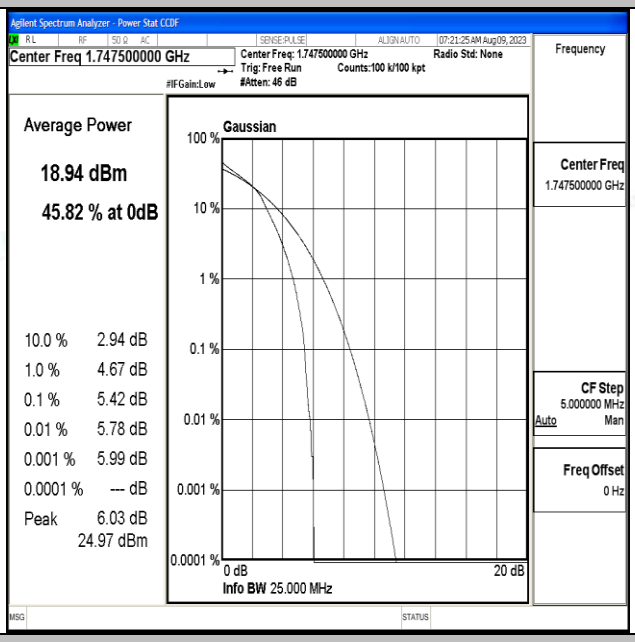
15MHz-20325



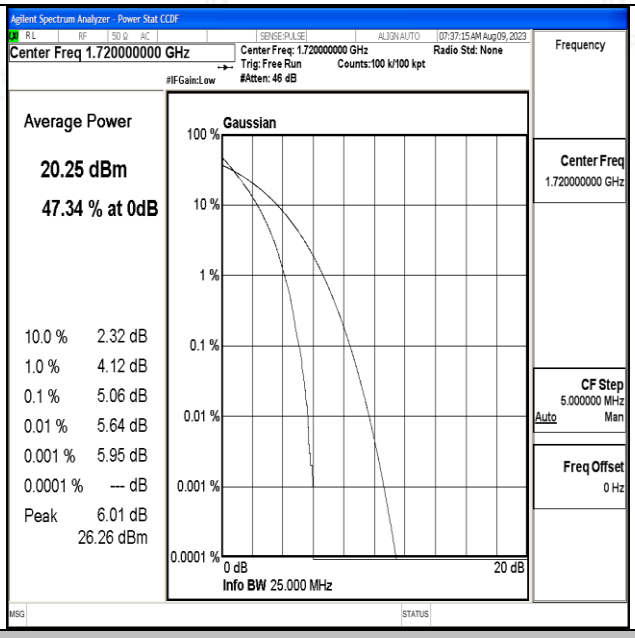
15MHz-20325



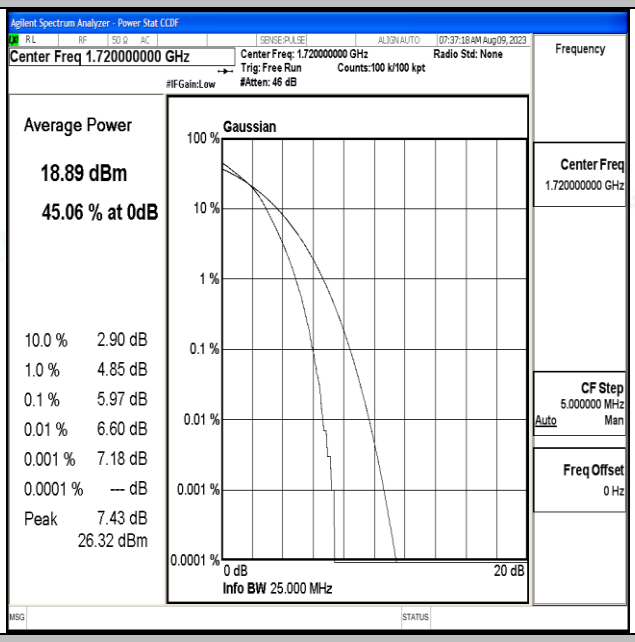
15MHz-20325



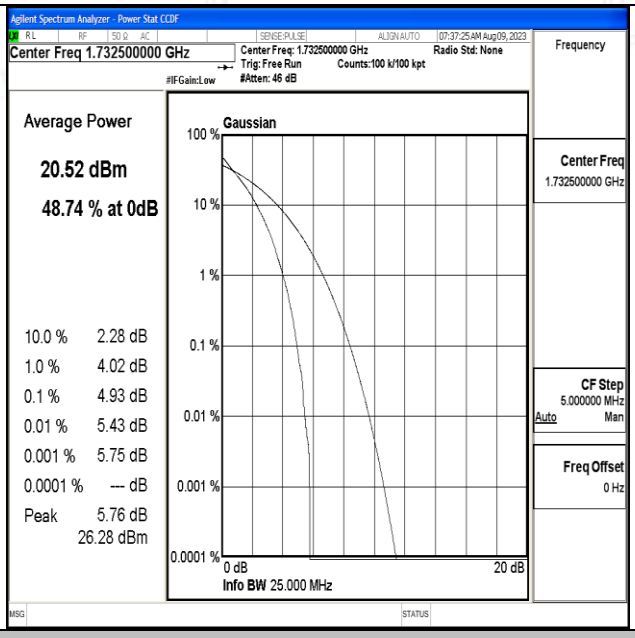
15MHz-20325



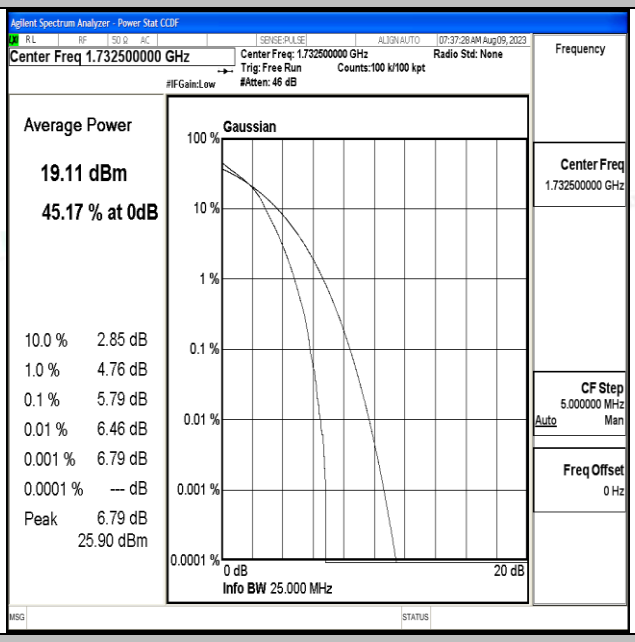
20MHz-20050



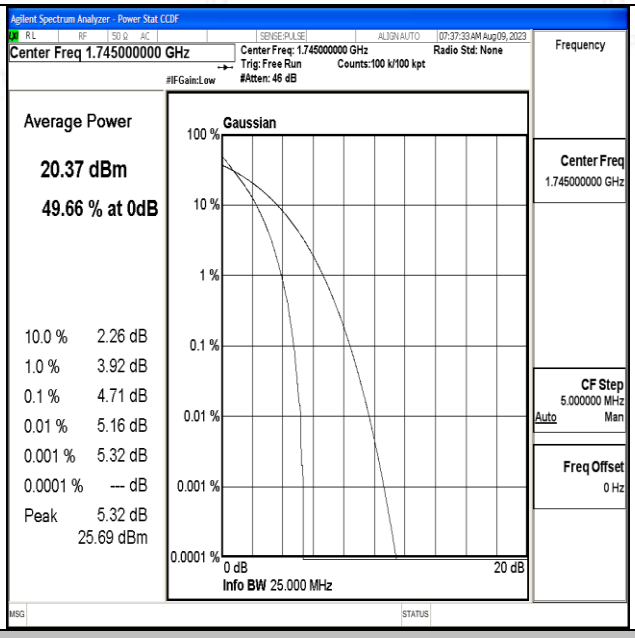
20MHz-20050



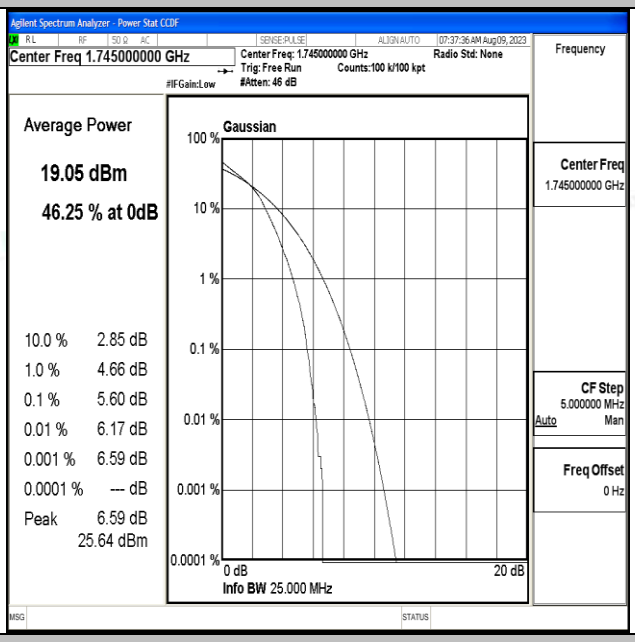
20MHz-20175



20MHz-20175



20MHz-20300



20MHz-20300

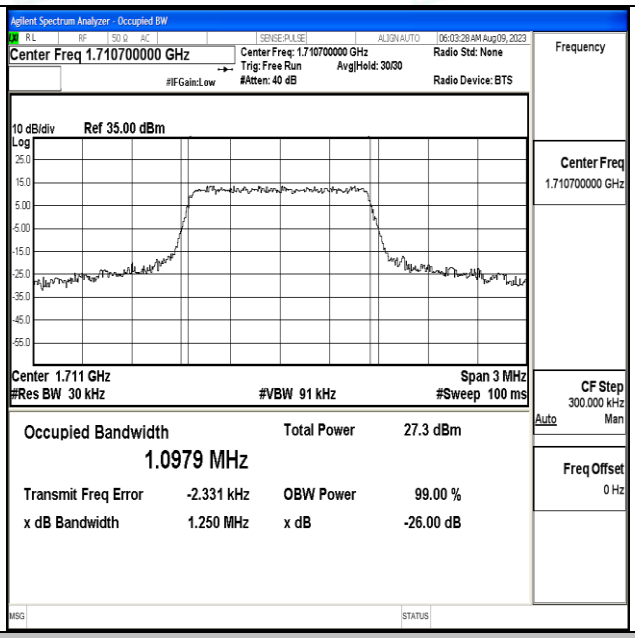
G.3 26dB Bandwidth and Occupied Bandwidth

Test Result

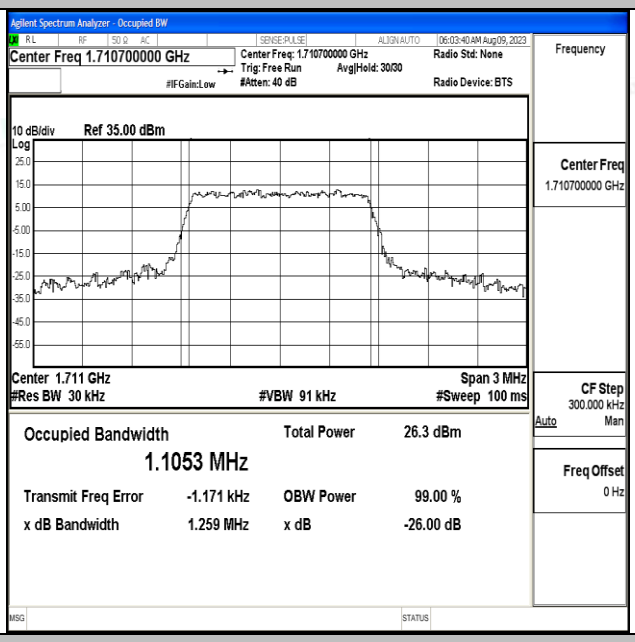
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band4	1.4MHz	QPSK	19957	6RB#0	1.0979	1.250	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	1.1053	1.259	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	1.1010	1.258	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	1.1051	1.252	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	1.1031	1.250	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	1.0987	1.245	PASS
Band4	3MHz	QPSK	19965	15RB#0	2.6995	3.009	PASS
Band4	3MHz	16QAM	19965	15RB#0	2.7173	3.027	PASS
Band4	3MHz	QPSK	20175	15RB#0	2.7046	3.027	PASS
Band4	3MHz	16QAM	20175	15RB#0	2.6966	3.038	PASS
Band4	3MHz	QPSK	20385	15RB#0	2.7133	3.040	PASS
Band4	3MHz	16QAM	20385	15RB#0	2.7117	3.034	PASS
Band4	5MHz	QPSK	19975	25RB#0	4.5177	4.976	PASS
Band4	5MHz	16QAM	19975	25RB#0	4.5120	4.994	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.5231	5.002	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.5094	4.962	PASS
Band4	5MHz	QPSK	20375	25RB#0	4.5059	4.976	PASS
Band4	5MHz	16QAM	20375	25RB#0	4.5207	4.983	PASS
Band4	10MHz	QPSK	20000	50RB#0	8.9989	9.867	PASS
Band4	10MHz	16QAM	20000	50RB#0	8.9967	9.925	PASS
Band4	10MHz	QPSK	20175	50RB#0	8.9904	9.900	PASS
Band4	10MHz	16QAM	20175	50RB#0	8.9941	9.922	PASS
Band4	10MHz	QPSK	20350	50RB#0	9.0338	9.951	PASS
Band4	10MHz	16QAM	20350	50RB#0	9.0210	10.04	PASS
Band4	15MHz	QPSK	20025	75RB#0	13.507	15.10	PASS
Band4	15MHz	16QAM	20025	75RB#0	13.490	14.95	PASS
Band4	15MHz	QPSK	20175	75RB#0	13.521	14.92	PASS
Band4	15MHz	16QAM	20175	75RB#0	13.510	14.92	PASS
Band4	15MHz	QPSK	20325	75RB#0	13.492	15.00	PASS
Band4	15MHz	16QAM	20325	75RB#0	13.504	14.93	PASS
Band4	20MHz	QPSK	20050	100RB#0	17.968	19.58	PASS
Band4	20MHz	16QAM	20050	100RB#0	17.987	19.73	PASS
Band4	20MHz	QPSK	20175	100RB#0	17.970	19.63	PASS
Band4	20MHz	16QAM	20175	100RB#0	18.005	19.84	PASS

Band4	20MHz	QPSK	20300	100RB#0	18.022	19.87	PASS
Band4	20MHz	16QAM	20300	100RB#0	18.008	19.75	PASS

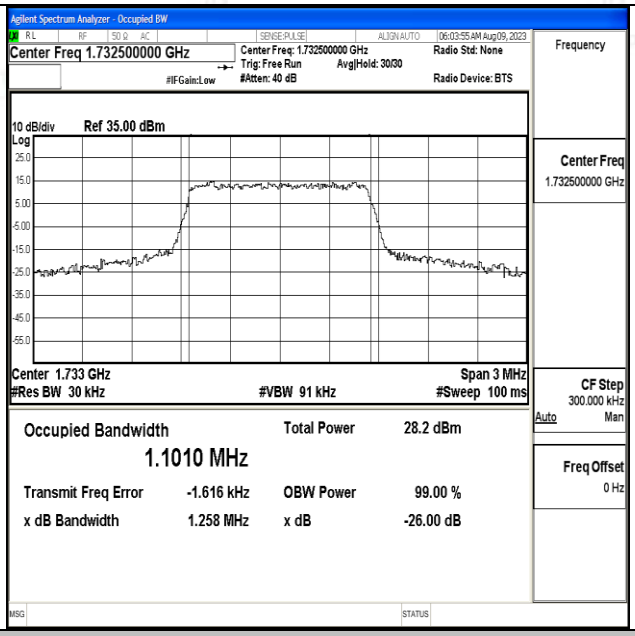
Test Graphs



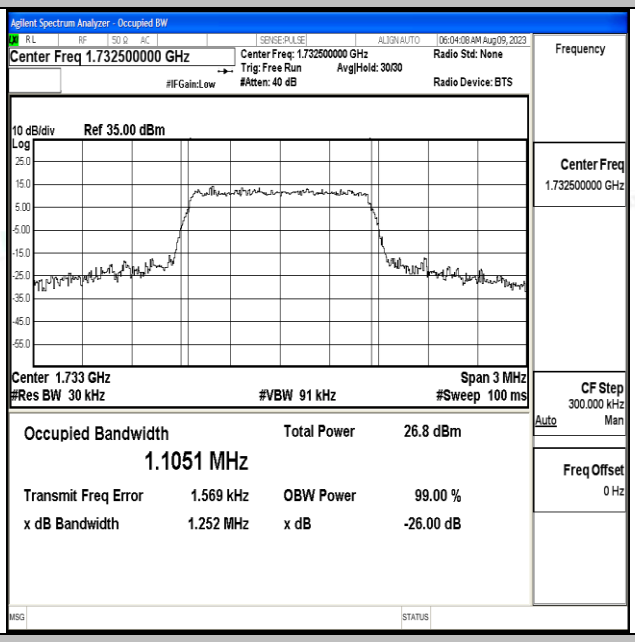
1.4MHz-19957



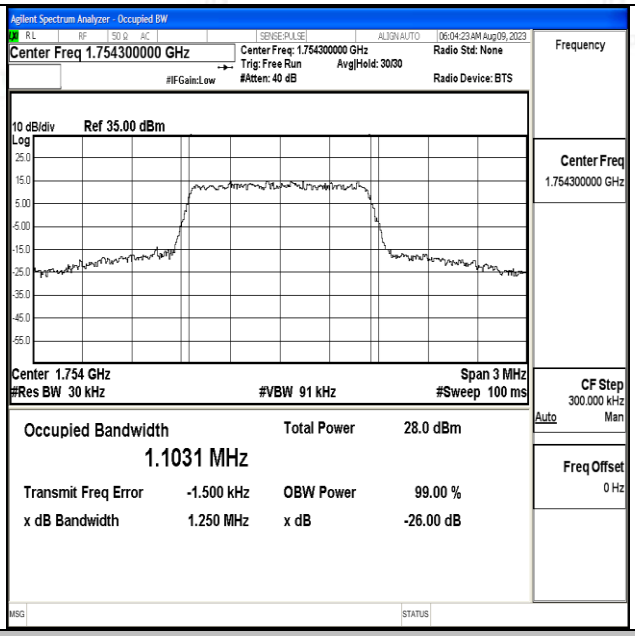
1.4MHz-19957



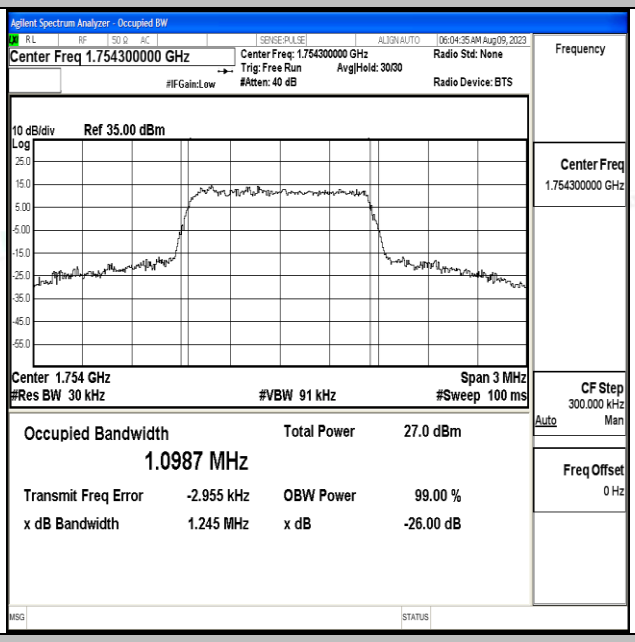
1.4MHz-20175



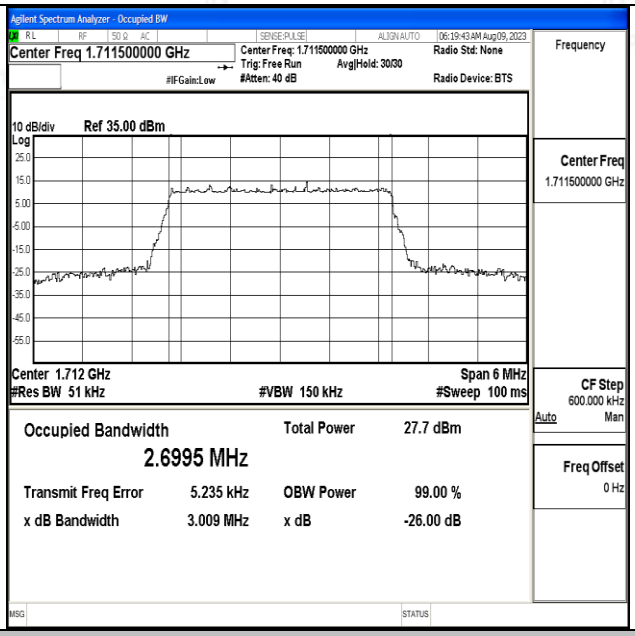
1.4MHz-20175



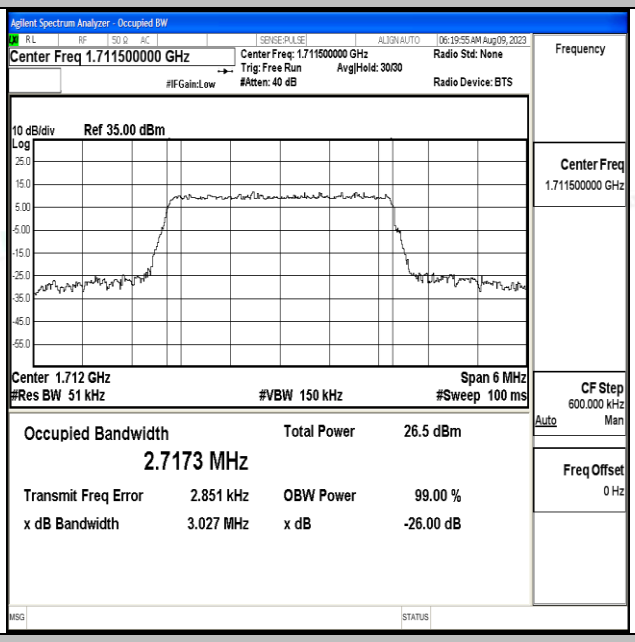
1.4MHz-20393



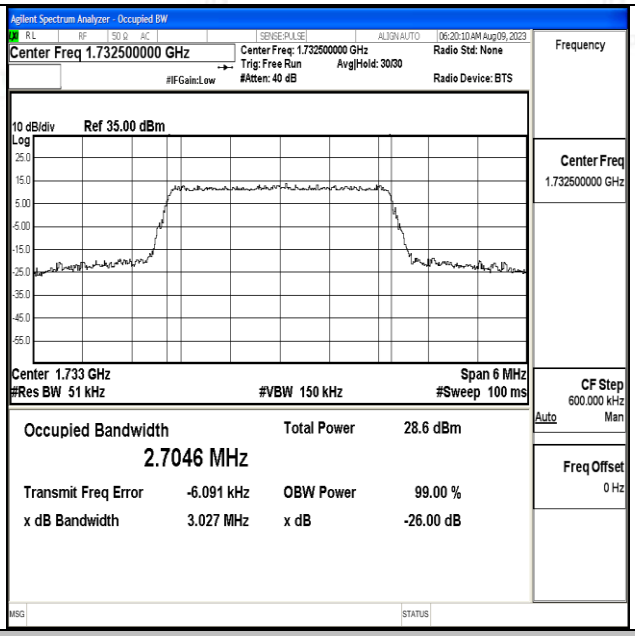
1.4MHz-20393



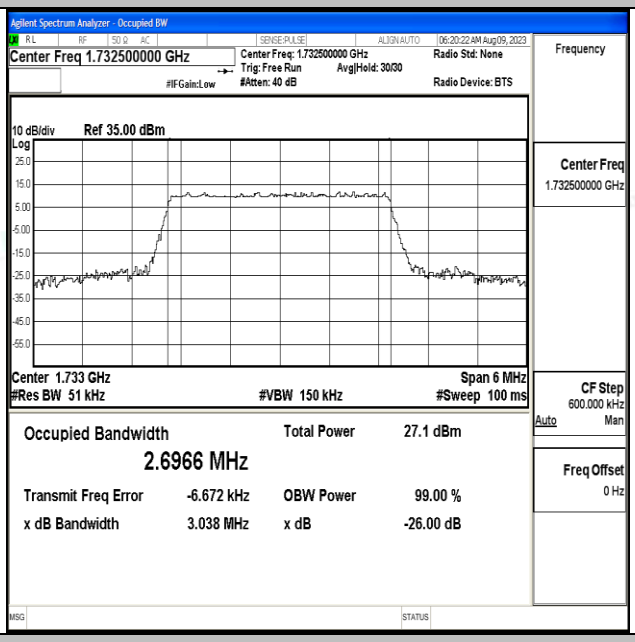
3MHz-19965



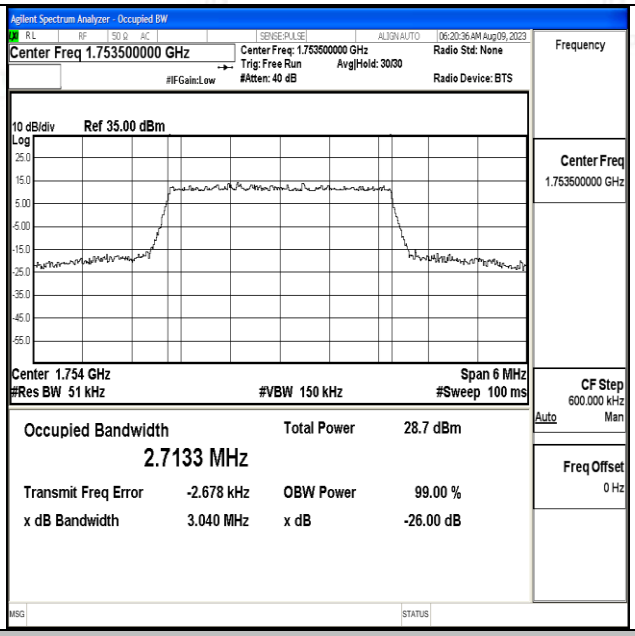
3MHz-19965



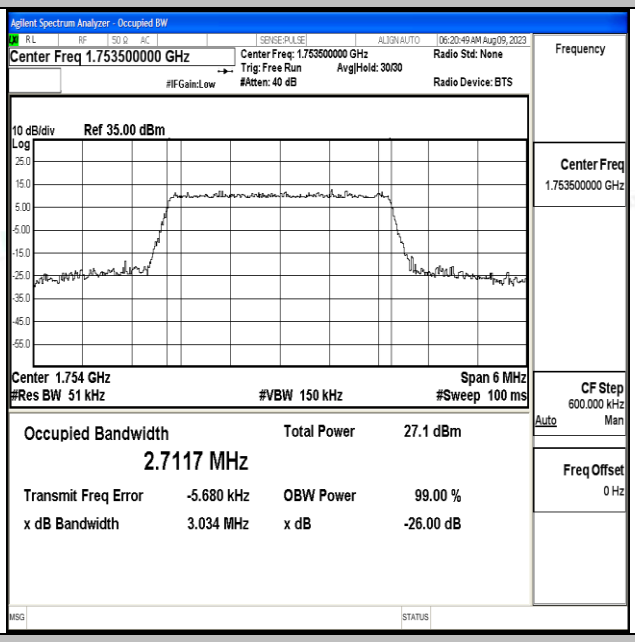
3MHz-20175



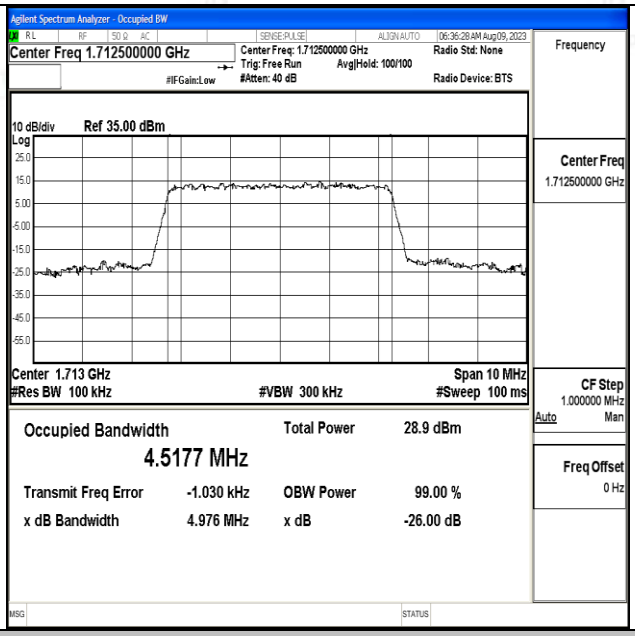
3MHz-20175



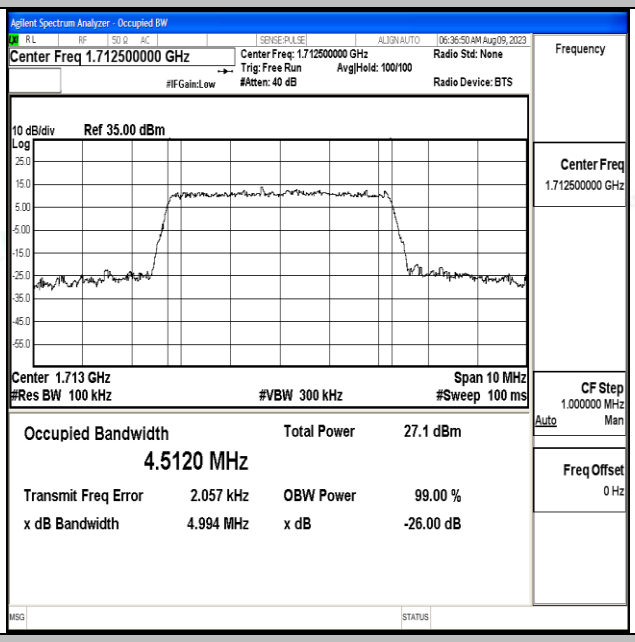
3MHz-20385



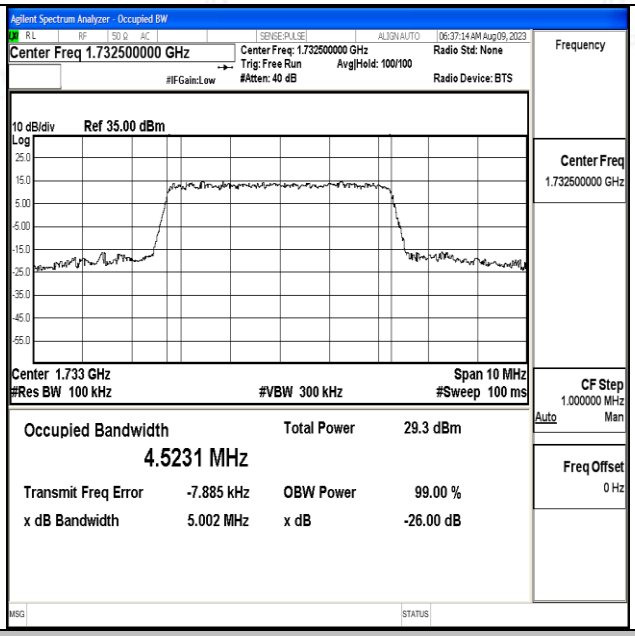
3MHz-20385



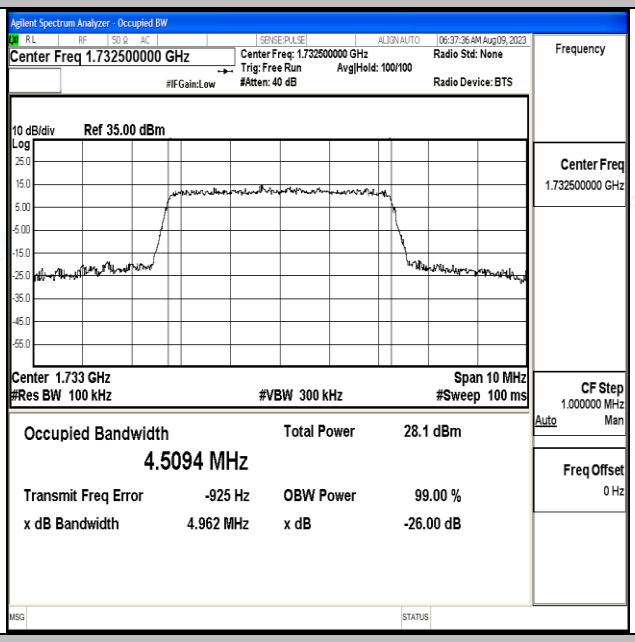
5MHz-19975



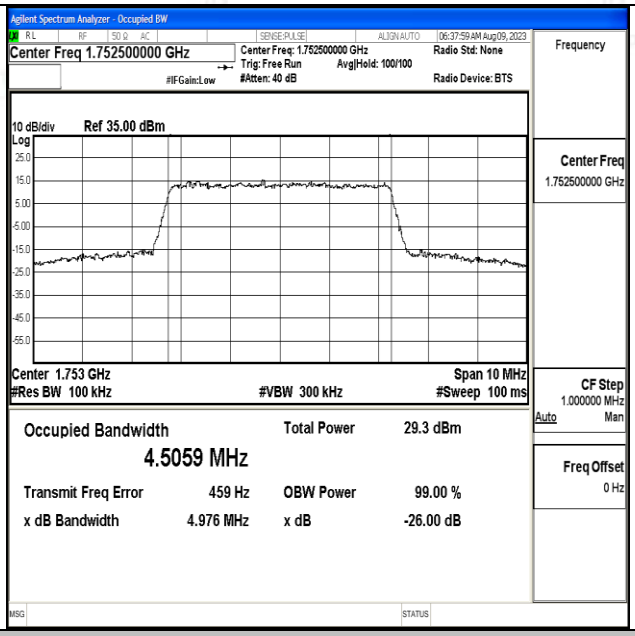
5MHz-19975



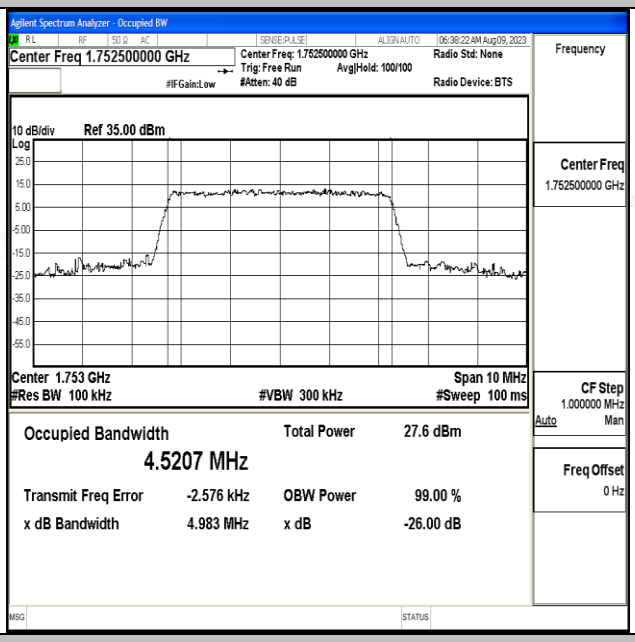
5MHz-20175



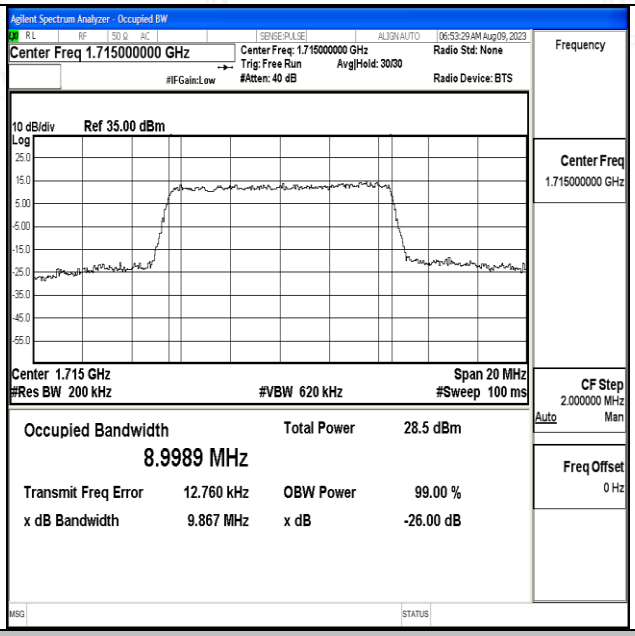
5MHz-20175



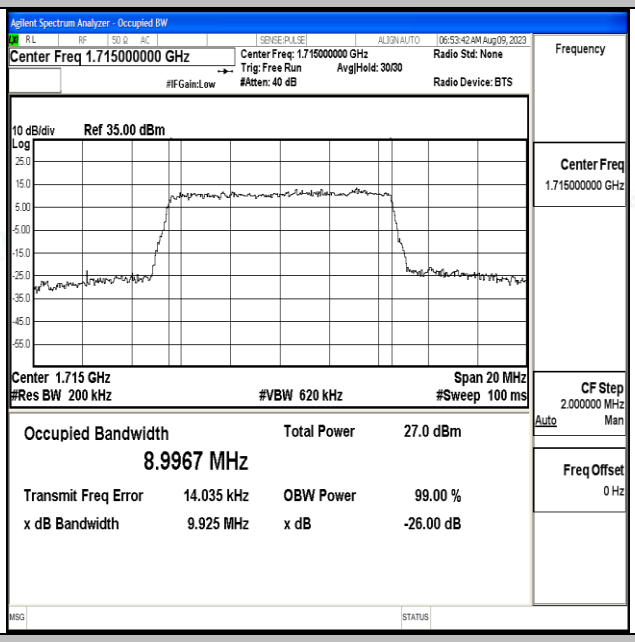
5MHz-20375



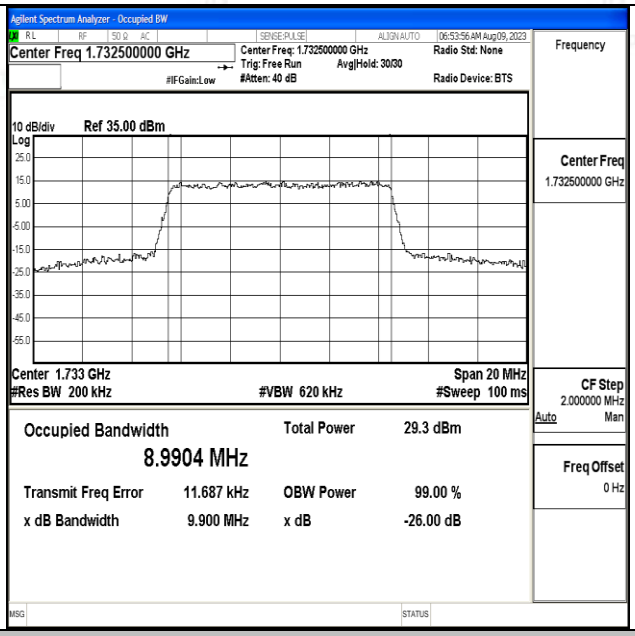
5MHz-20375



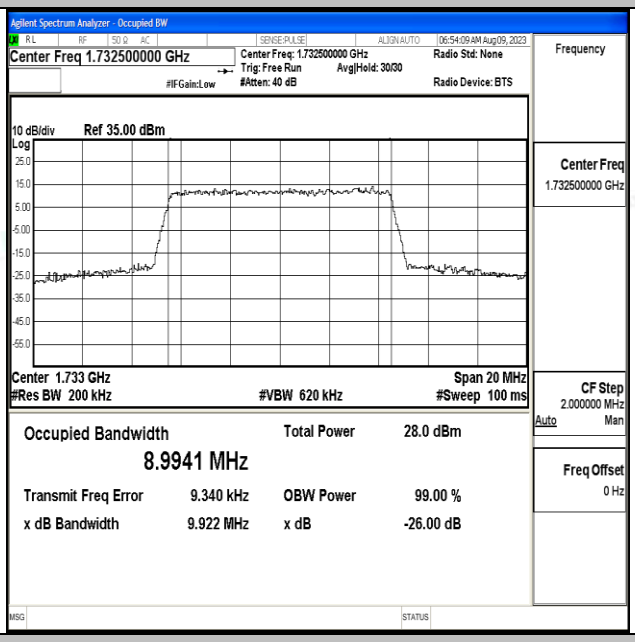
10MHz-20000



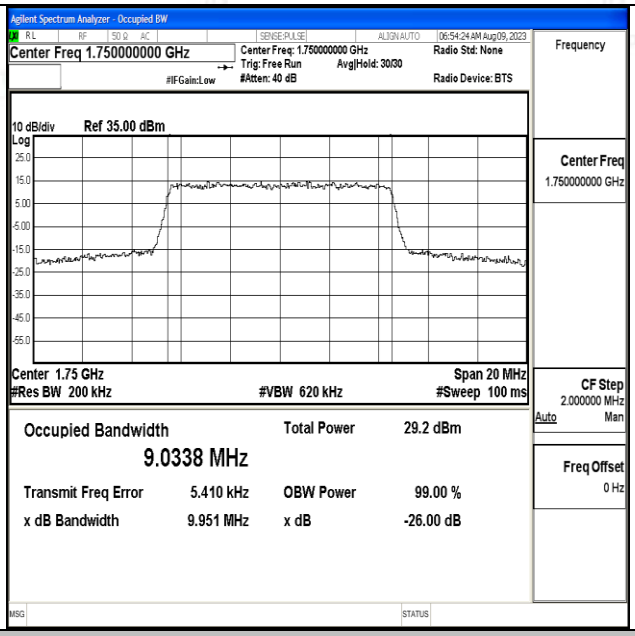
10MHz-20000



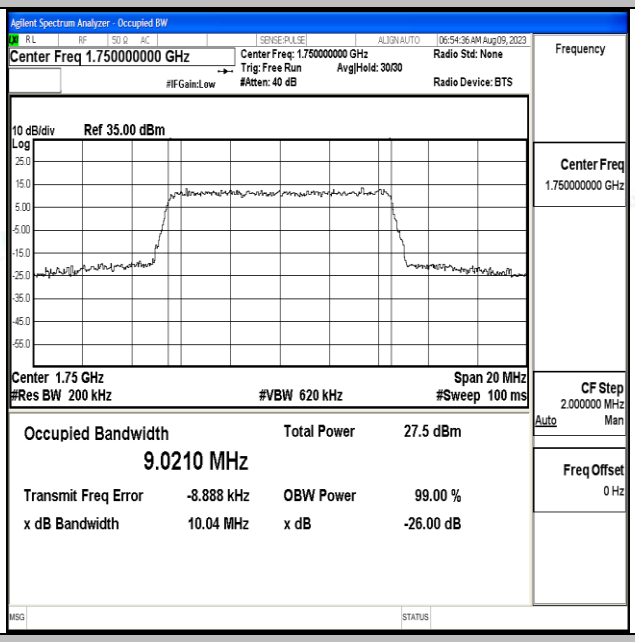
10MHz-20175



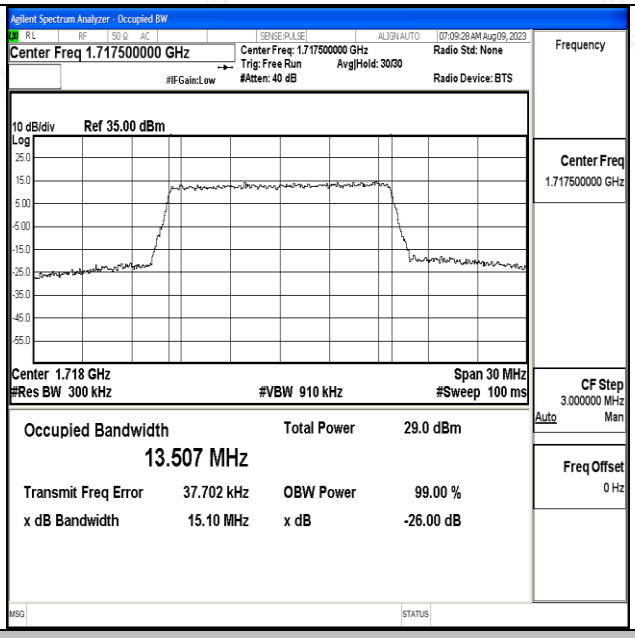
10MHz-20175



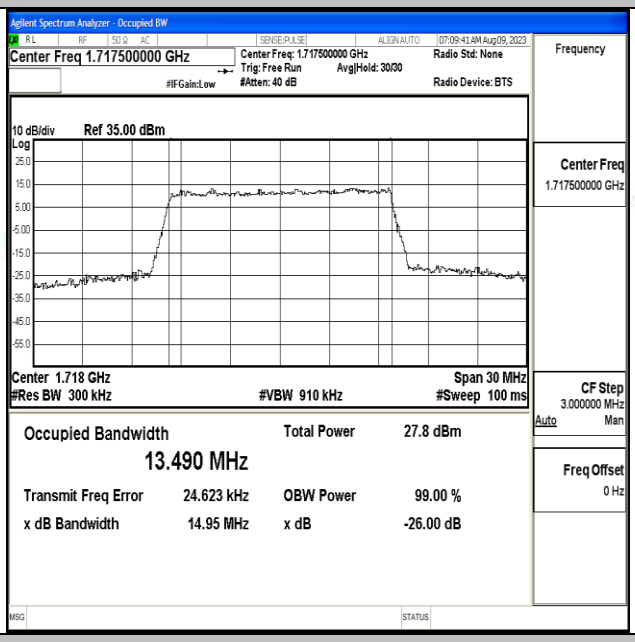
10MHz-20350



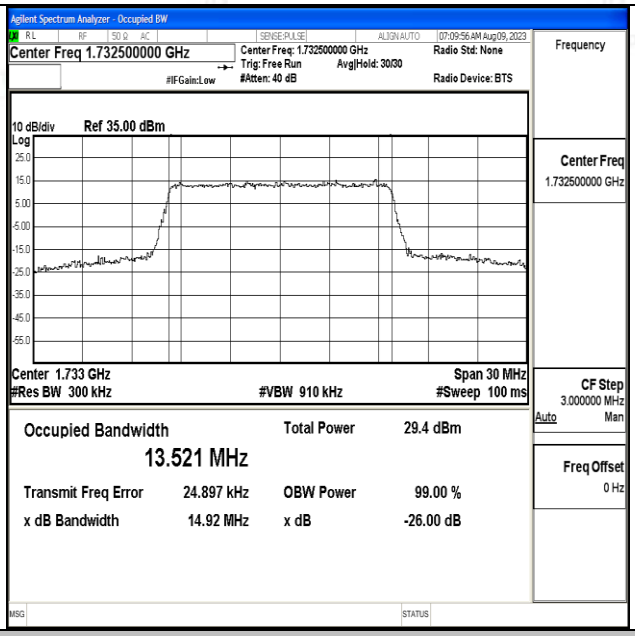
10MHz-20350



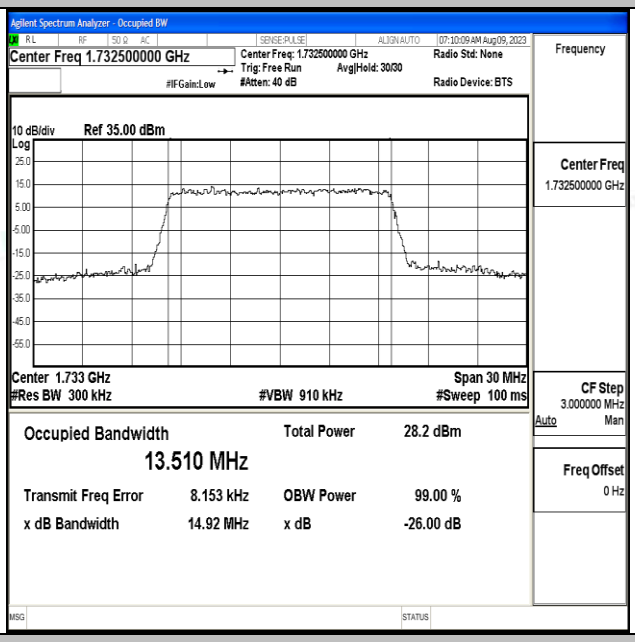
15MHz-20025



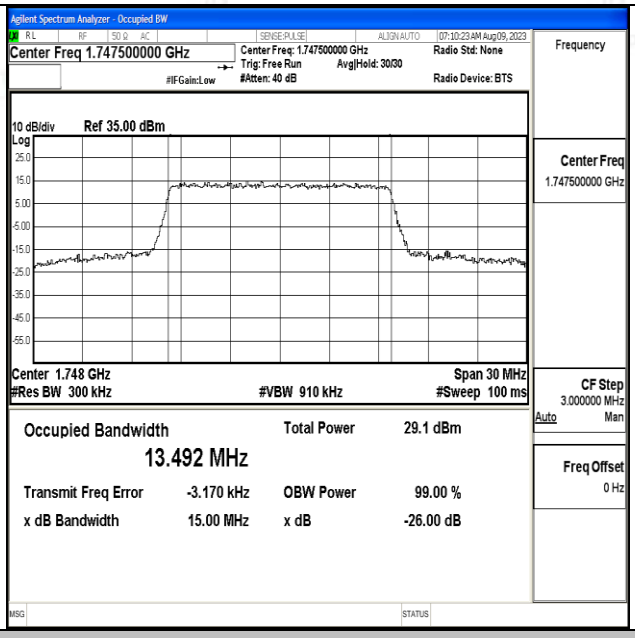
15MHz-20025



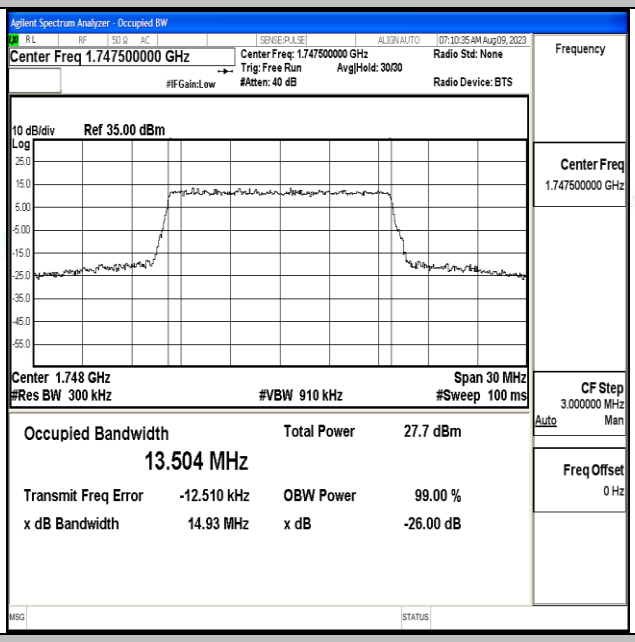
15MHz-20175



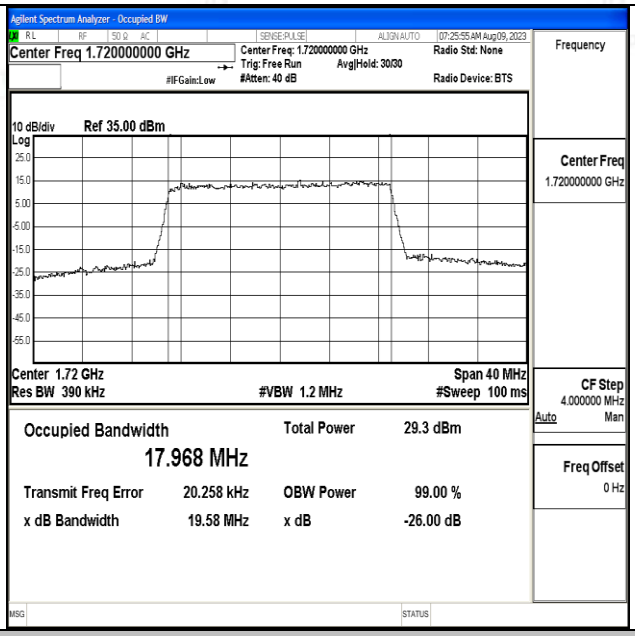
15MHz-20175



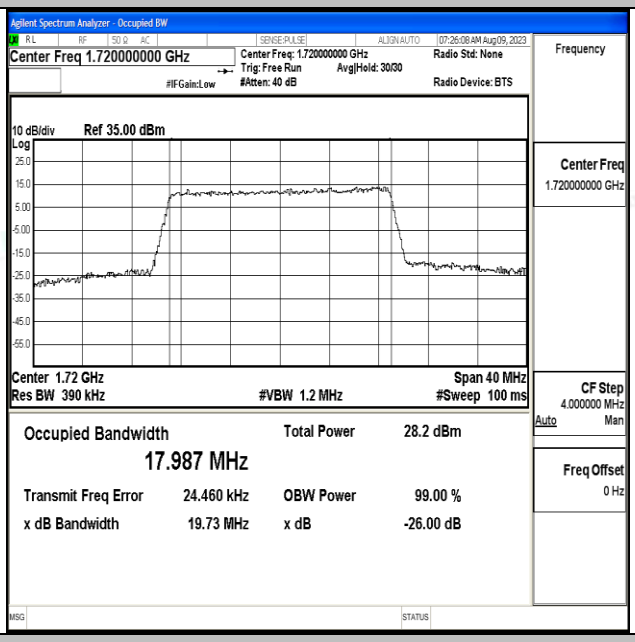
15MHz-20325



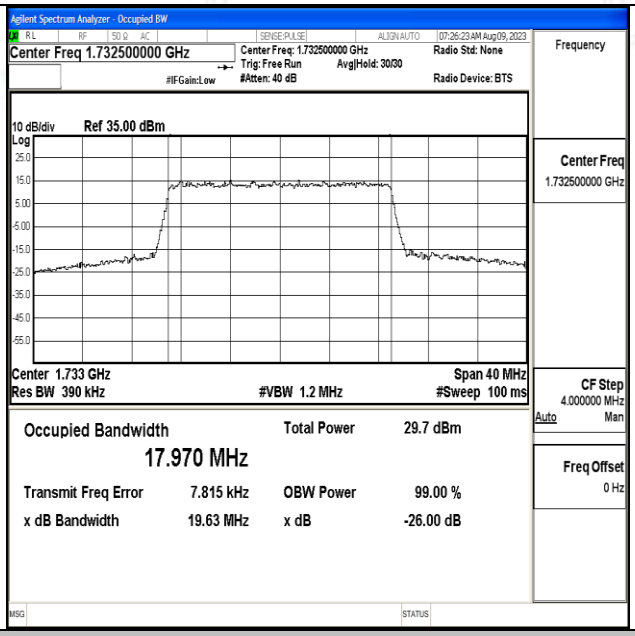
15MHz-20325



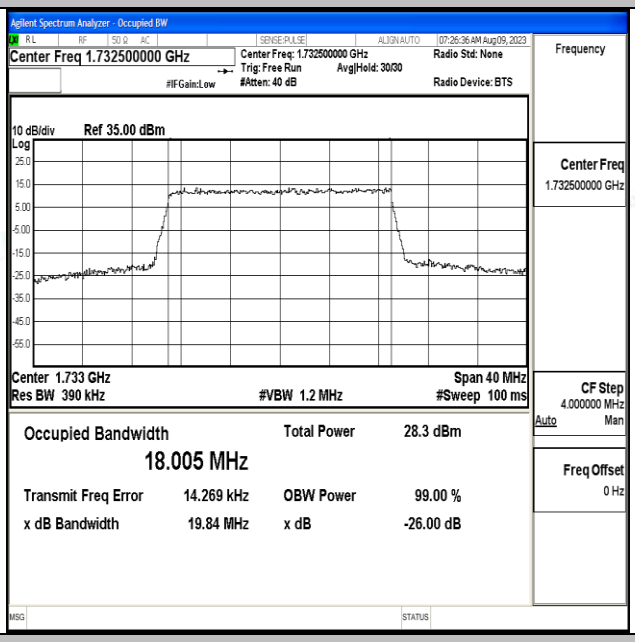
20MHz-20050



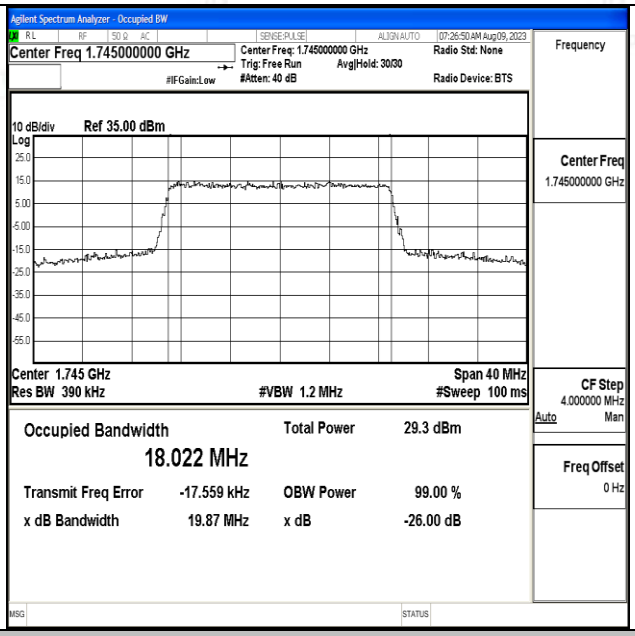
20MHz-20050



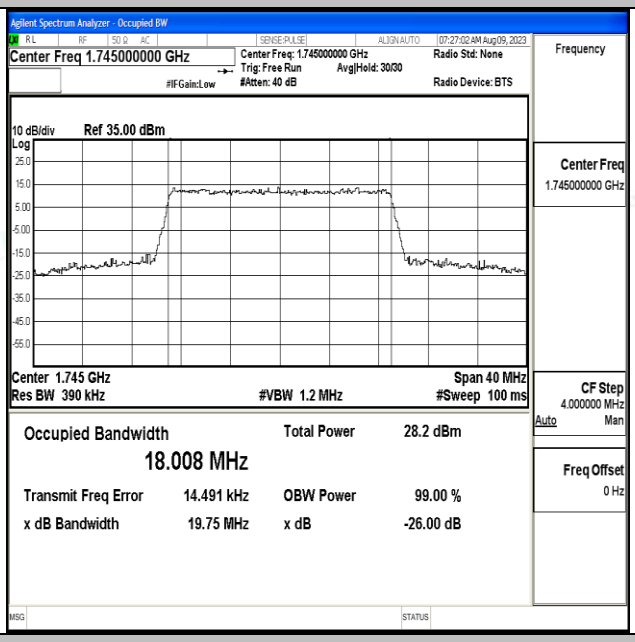
20MHz-20175



20MHz-20175



20MHz-20300



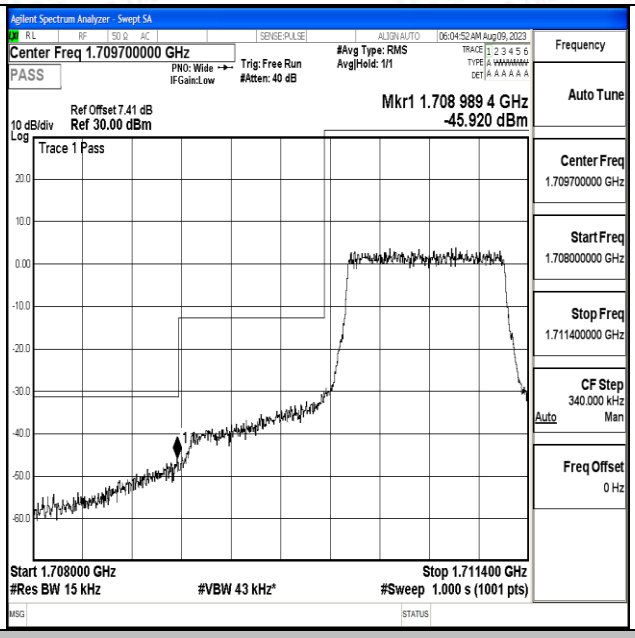
20MHz-20300

G.4 Band Edge

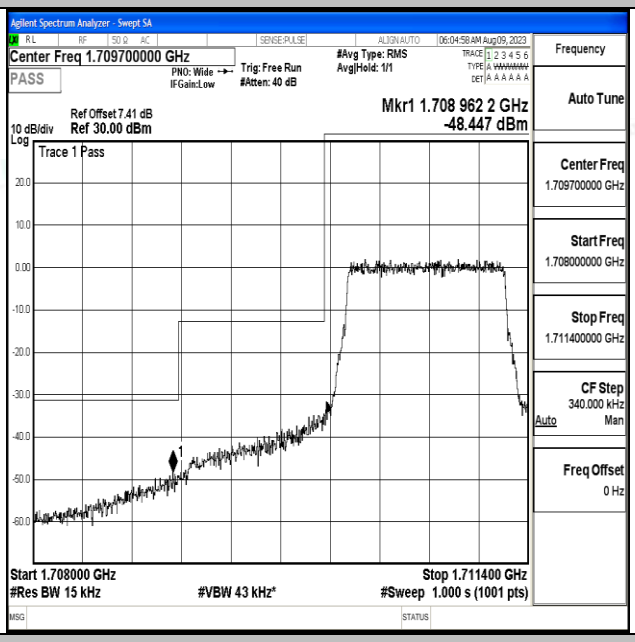
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Peak Frenquency	Result(dBm)	Verdict
Band4	1.4MHz	QPSK	19957	6RB#0	1708.99	-45.92	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	1708.96	-48.45	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	1756.02	-43.78	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	1756.01	-45.07	PASS
Band4	3MHz	QPSK	19965	15RB#0	1708.90	-36.70	PASS
Band4	3MHz	16QAM	19965	15RB#0	1708.90	-41.11	PASS
Band4	3MHz	QPSK	20385	15RB#0	1756.07	-30.94	PASS
Band4	3MHz	16QAM	20385	15RB#0	1756.23	-37.40	PASS
Band4	5MHz	QPSK	19975	25RB#0	1708.99	-36.35	PASS
Band4	5MHz	16QAM	19975	25RB#0	1708.50	-40.50	PASS
Band4	5MHz	QPSK	20375	25RB#0	1756.02	-30.47	PASS
Band4	5MHz	16QAM	20375	25RB#0	1756.01	-36.11	PASS
Band4	10MHz	QPSK	20000	50RB#0	1708.88	-36.68	PASS
Band4	10MHz	16QAM	20000	50RB#0	1708.95	-40.55	PASS
Band4	10MHz	QPSK	20350	50RB#0	1756.20	-29.60	PASS
Band4	10MHz	16QAM	20350	50RB#0	1756.52	-34.99	PASS
Band4	15MHz	QPSK	20025	75RB#0	1708.83	-35.24	PASS
Band4	15MHz	16QAM	20025	75RB#0	1708.65	-39.61	PASS
Band4	15MHz	QPSK	20325	75RB#0	1756.15	-28.87	PASS
Band4	15MHz	16QAM	20325	75RB#0	1756.20	-33.66	PASS
Band4	20MHz	QPSK	20050	100RB#0	1708.90	-35.78	PASS
Band4	20MHz	16QAM	20050	100RB#0	1708.53	-40.48	PASS
Band4	20MHz	QPSK	20300	100RB#0	1756.27	-29.35	PASS
Band4	20MHz	16QAM	20300	100RB#0	1756.03	-34.09	PASS

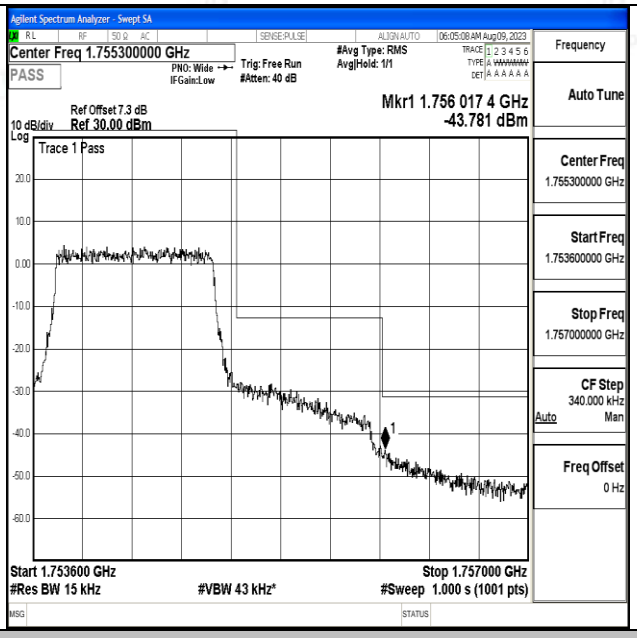
Test Graphs



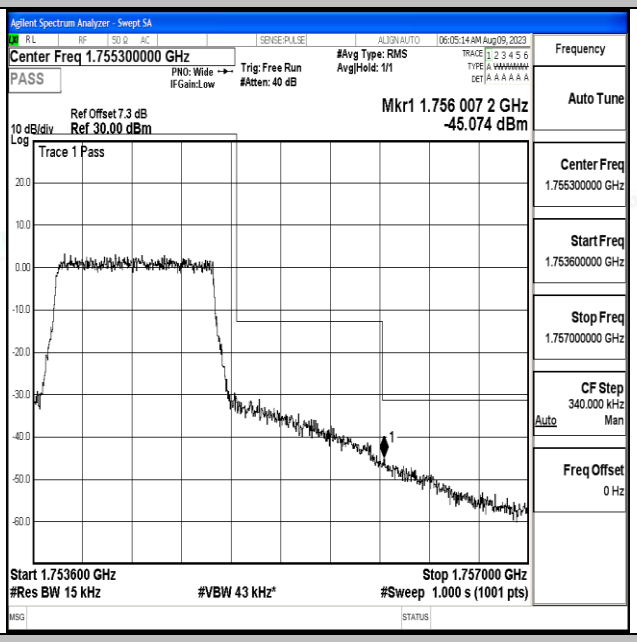
Band4_1.4MHz_QPSK_19957_6RB#0



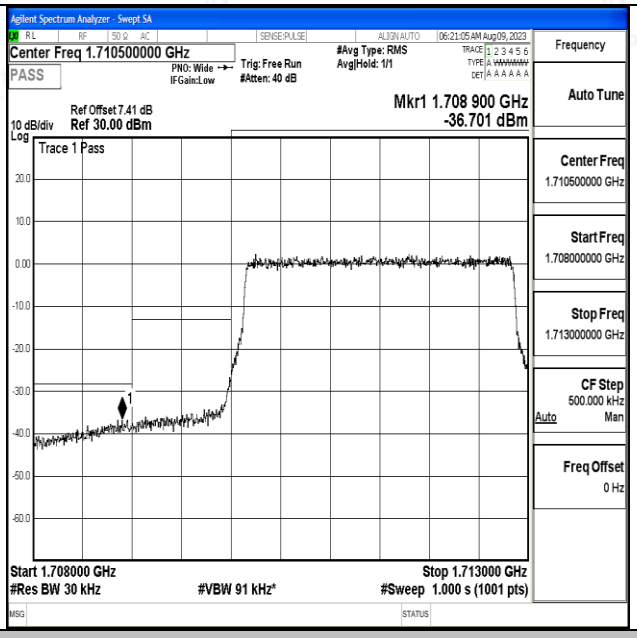
Band4_1.4MHz_16QAM_19957_6RB#0



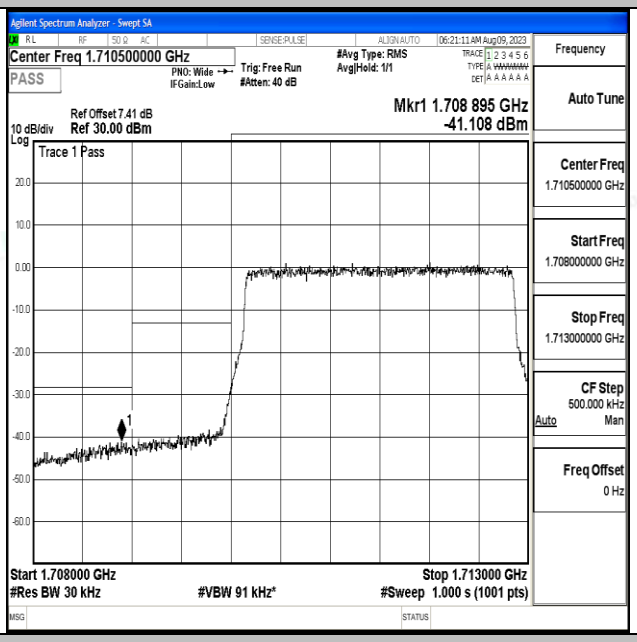
Band4_1.4MHz_QPSK_20393_6RB#0



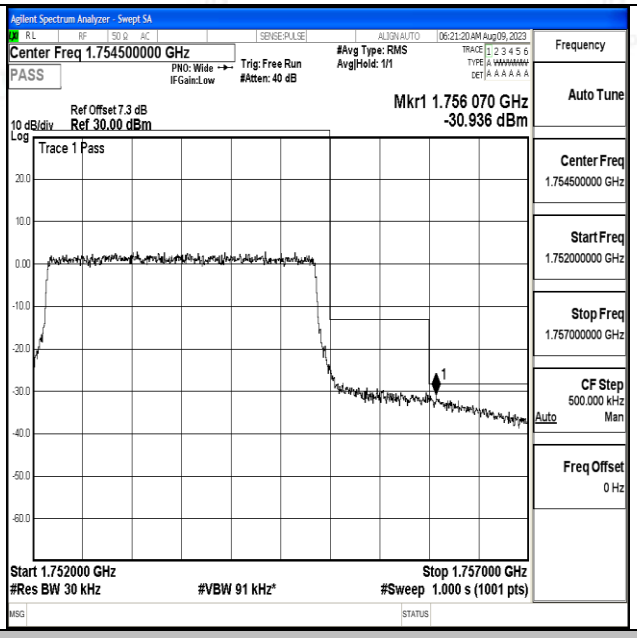
Band4_1.4MHz_16QAM_20393_6RB#0



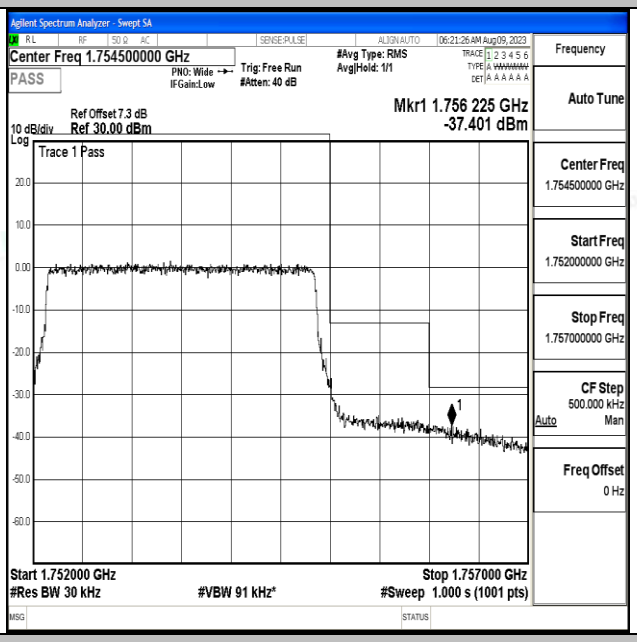
Band4_3MHz_QPSK_19965_15RB#0



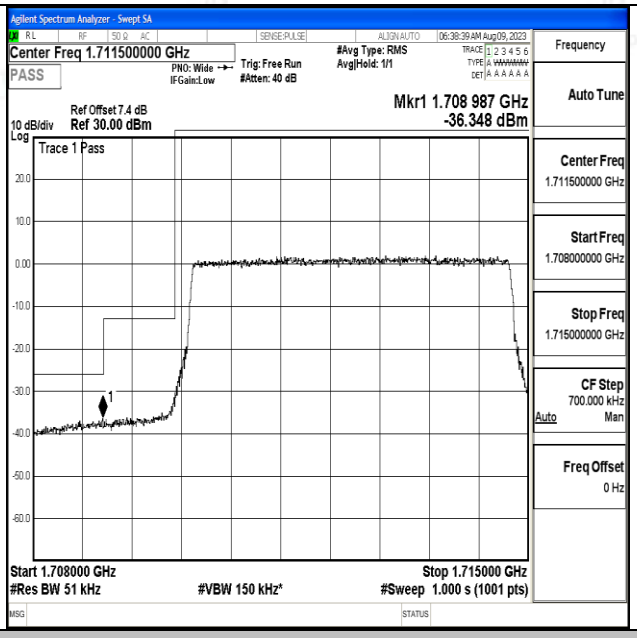
Band4_3MHz_16QAM_19965_15RB#0



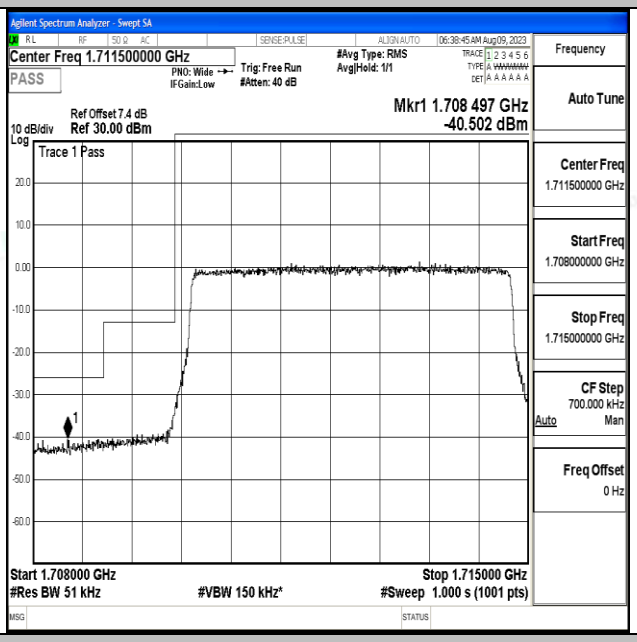
Band4_3MHz_QPSK_20385_15RB#0



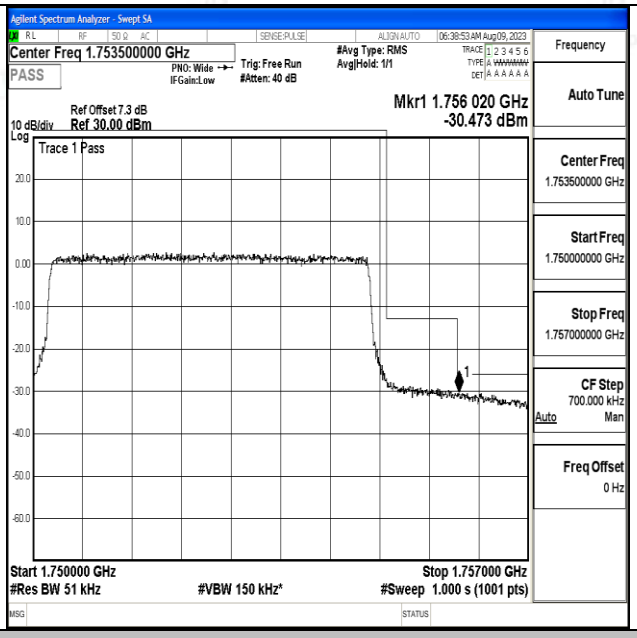
Band4_3MHz_16QAM_20385_15RB#0



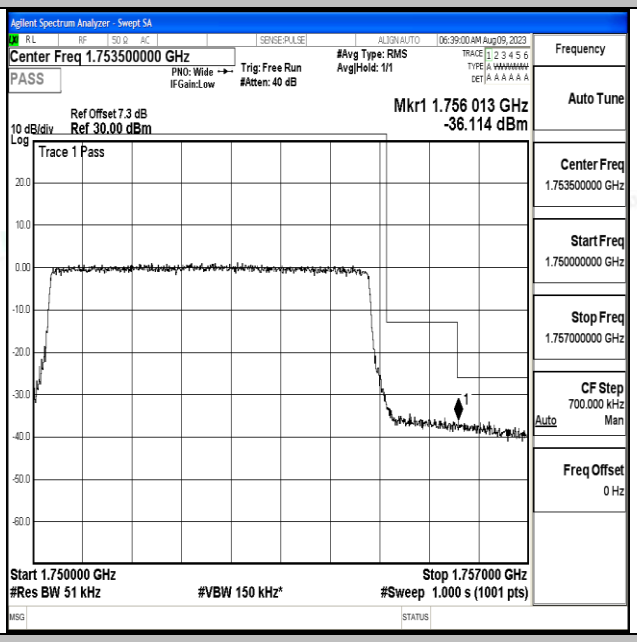
Band4_5MHz_QPSK_19975_25RB#0



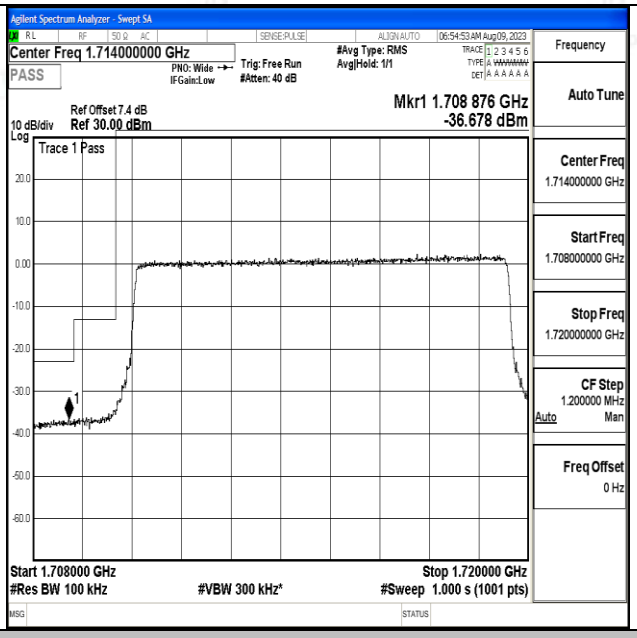
Band4_5MHz_16QAM_19975_25RB#0



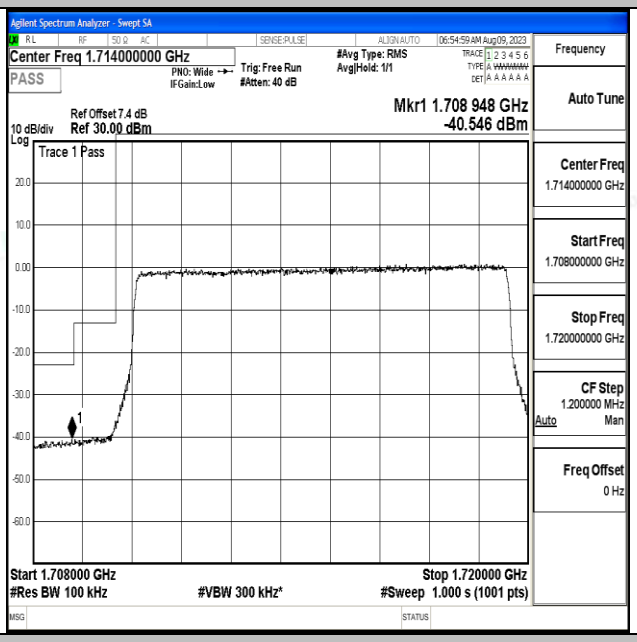
Band4_5MHz_QPSK_20375_25RB#0



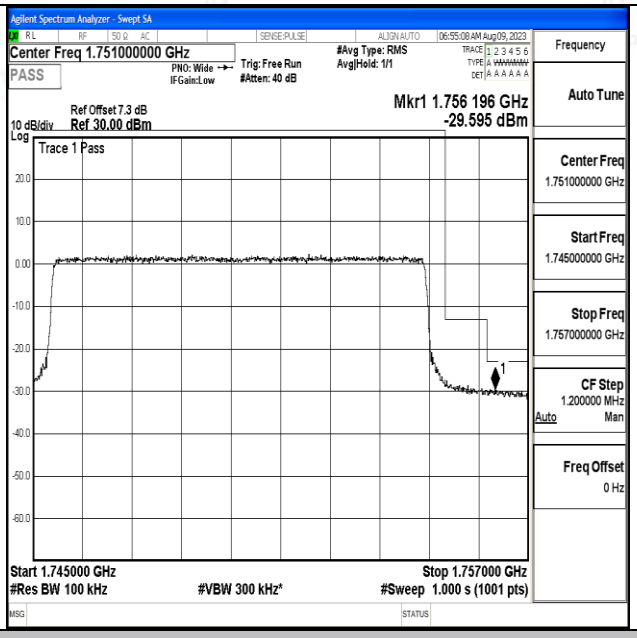
Band4_5MHz_16QAM_20375_25RB#0



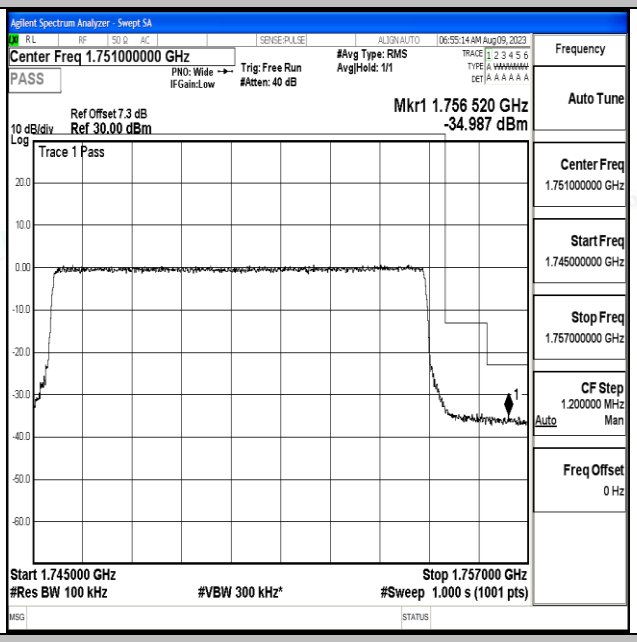
Band4_10MHz_QPSK_20000_50RB#0



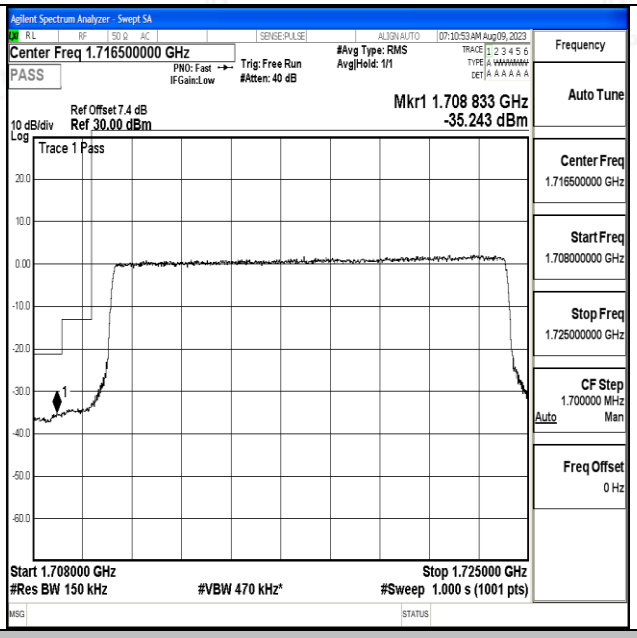
Band4_10MHz_16QAM_20000_50RB#0



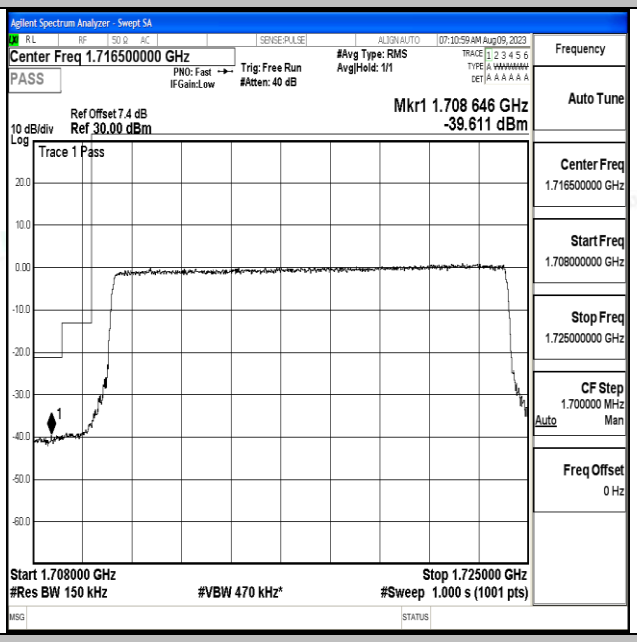
Band4_10MHz_QPSK_20350_50RB#0



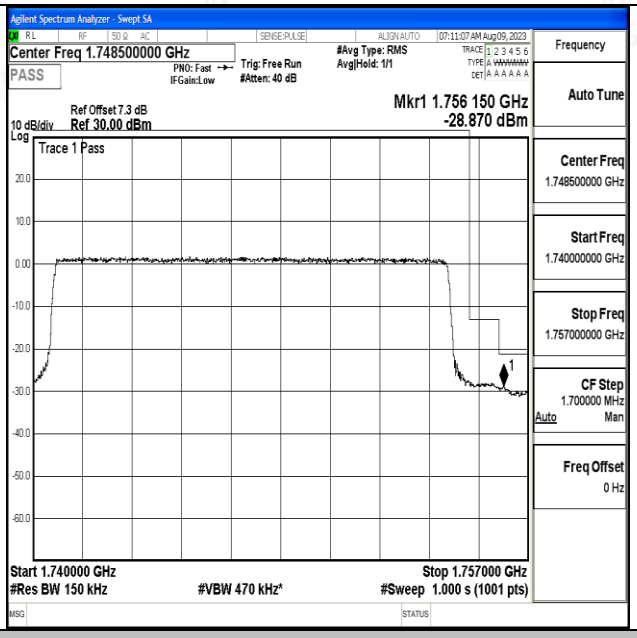
Band4_10MHz_16QAM_20350_50RB#0



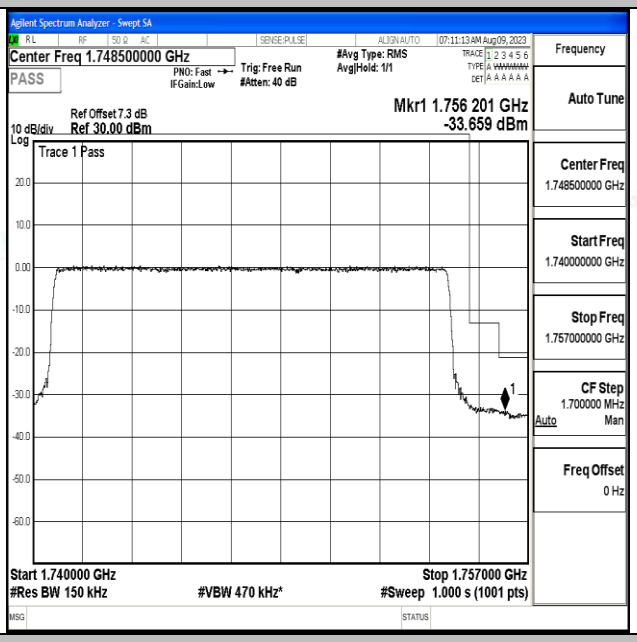
Band4_15MHz_QPSK_20025_75RB#0



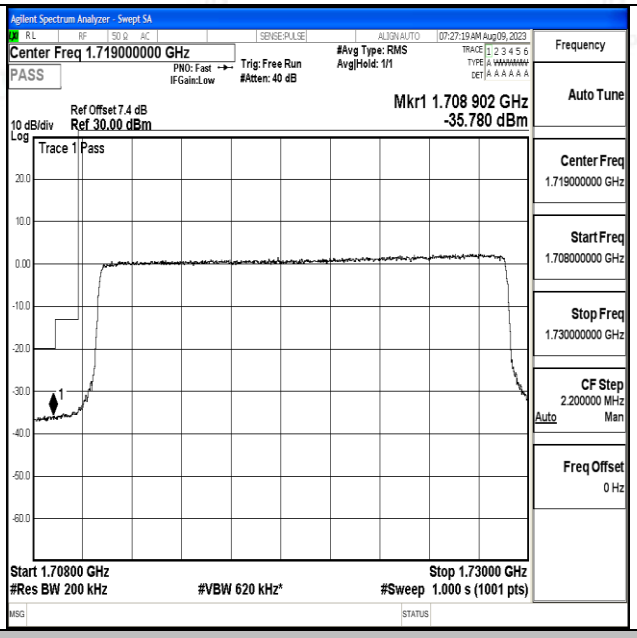
Band4_15MHz_16QAM_20025_75RB#0



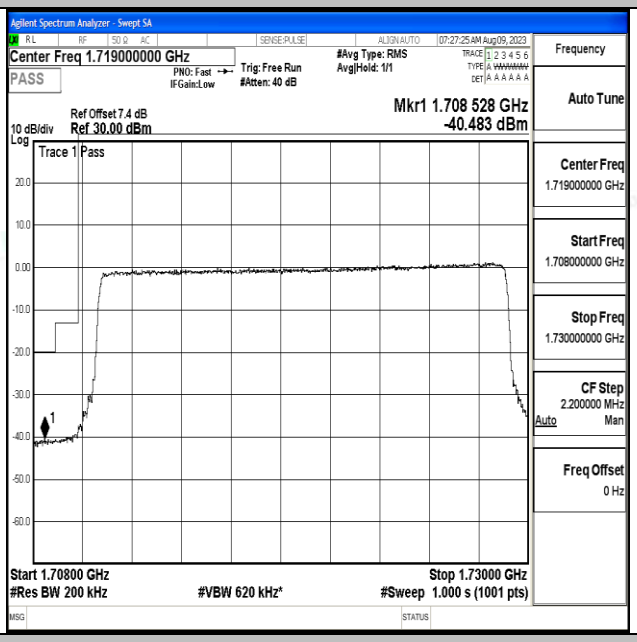
Band4_15MHz_QPSK_20325_75RB#0



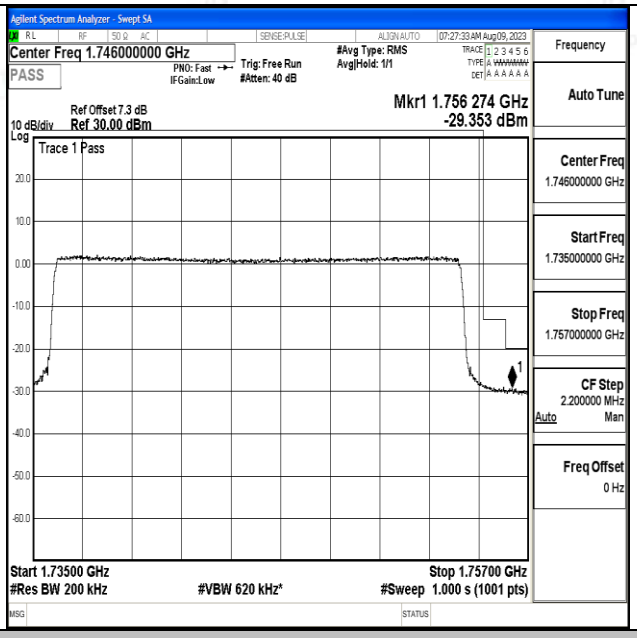
Band4_15MHz_16QAM_20325_75RB#0



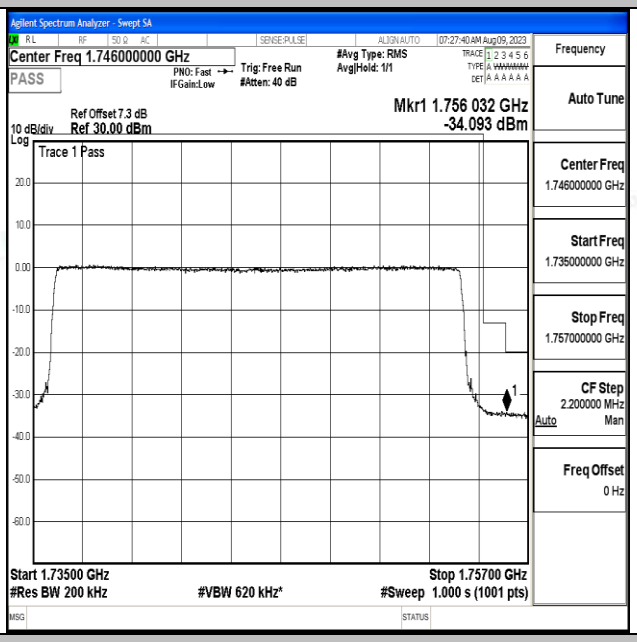
Band4_20MHz_QPSK_20050_100RB#0



Band4_20MHz_16QAM_20050_100RB#0



Band4_20MHz_QPSK_20300_100RB#0



Band4_20MHz_16QAM_20300_100RB#0

G.5 Conducted Spurious Emission

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band4	1.4MHz	QPSK	19957	1RB#0	0.009~0.15	-65.21	PASS
Band4	1.4MHz	QPSK	19957	1RB#0	0.15~30	-52.86	PASS
Band4	1.4MHz	QPSK	19957	1RB#0	30~1000	-53.93	PASS
Band4	1.4MHz	QPSK	19957	1RB#0	1000~3000	-44.84	PASS
Band4	1.4MHz	QPSK	19957	1RB#0	3000~20000	-33.41	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	0.009~0.15	-66.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	0.15~30	-52.59	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	30~1000	-53.78	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	1000~3000	-46.55	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	3000~20000	-33.33	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	0.009~0.15	-65.57	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	0.15~30	-54.26	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	30~1000	-53.98	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	1000~3000	-44.16	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	3000~20000	-33.59	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	0.009~0.15	-63.69	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	0.15~30	-53.53	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	30~1000	-53.91	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	1000~3000	-41.75	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	3000~20000	-33.21	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	0.009~0.15	-66.22	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	0.15~30	-54.86	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	30~1000	-53.86	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	1000~3000	-43.95	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	3000~20000	-33.22	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	0.009~0.15	-64.82	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	0.15~30	-53.20	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	30~1000	-53.91	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	1000~3000	-44.97	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	3000~20000	-33.30	PASS
Band4	3MHz	QPSK	19965	1RB#0	0.009~0.15	-65.55	PASS
Band4	3MHz	QPSK	19965	1RB#0	0.15~30	-53.62	PASS
Band4	3MHz	QPSK	19965	1RB#0	30~1000	-53.79	PASS
Band4	3MHz	QPSK	19965	1RB#0	1000~3000	-47.16	PASS
Band4	3MHz	QPSK	19965	1RB#0	3000~20000	-33.13	PASS

Band4	3MHz	16QAM	19965	1RB#0	0.009~0.15	-66.10	PASS
Band4	3MHz	16QAM	19965	1RB#0	0.15~30	-53.84	PASS
Band4	3MHz	16QAM	19965	1RB#0	30~1000	-53.85	PASS
Band4	3MHz	16QAM	19965	1RB#0	1000~3000	-45.38	PASS
Band4	3MHz	16QAM	19965	1RB#0	3000~20000	-33.02	PASS
Band4	3MHz	QPSK	20175	1RB#0	0.009~0.15	-65.71	PASS
Band4	3MHz	QPSK	20175	1RB#0	0.15~30	-54.17	PASS
Band4	3MHz	QPSK	20175	1RB#0	30~1000	-53.95	PASS
Band4	3MHz	QPSK	20175	1RB#0	1000~3000	-43.94	PASS
Band4	3MHz	QPSK	20175	1RB#0	3000~20000	-33.54	PASS
Band4	3MHz	16QAM	20175	1RB#0	0.009~0.15	-60.23	PASS
Band4	3MHz	16QAM	20175	1RB#0	0.15~30	-53.44	PASS
Band4	3MHz	16QAM	20175	1RB#0	30~1000	-53.74	PASS
Band4	3MHz	16QAM	20175	1RB#0	1000~3000	-43.61	PASS
Band4	3MHz	16QAM	20175	1RB#0	3000~20000	-33.45	PASS
Band4	3MHz	QPSK	20385	1RB#0	0.009~0.15	-67.46	PASS
Band4	3MHz	QPSK	20385	1RB#0	0.15~30	-54.31	PASS
Band4	3MHz	QPSK	20385	1RB#0	30~1000	-53.90	PASS
Band4	3MHz	QPSK	20385	1RB#0	1000~3000	-43.45	PASS
Band4	3MHz	QPSK	20385	1RB#0	3000~20000	-33.29	PASS
Band4	3MHz	16QAM	20385	1RB#0	0.009~0.15	-65.32	PASS
Band4	3MHz	16QAM	20385	1RB#0	0.15~30	-52.16	PASS
Band4	3MHz	16QAM	20385	1RB#0	30~1000	-53.90	PASS
Band4	3MHz	16QAM	20385	1RB#0	1000~3000	-46.50	PASS
Band4	3MHz	16QAM	20385	1RB#0	3000~20000	-33.25	PASS
Band4	5MHz	QPSK	19975	1RB#0	0.009~0.15	-65.97	PASS
Band4	5MHz	QPSK	19975	1RB#0	0.15~30	-53.38	PASS
Band4	5MHz	QPSK	19975	1RB#0	30~1000	-53.89	PASS
Band4	5MHz	QPSK	19975	1RB#0	1000~3000	-46.21	PASS
Band4	5MHz	QPSK	19975	1RB#0	3000~20000	-33.34	PASS
Band4	5MHz	16QAM	19975	1RB#0	0.009~0.15	-67.28	PASS
Band4	5MHz	16QAM	19975	1RB#0	0.15~30	-53.66	PASS
Band4	5MHz	16QAM	19975	1RB#0	30~1000	-53.91	PASS
Band4	5MHz	16QAM	19975	1RB#0	1000~3000	-45.47	PASS
Band4	5MHz	16QAM	19975	1RB#0	3000~20000	-33.04	PASS
Band4	5MHz	QPSK	20175	1RB#0	0.009~0.15	-67.39	PASS
Band4	5MHz	QPSK	20175	1RB#0	0.15~30	-56.57	PASS
Band4	5MHz	QPSK	20175	1RB#0	30~1000	-53.96	PASS
Band4	5MHz	QPSK	20175	1RB#0	1000~3000	-48.03	PASS
Band4	5MHz	QPSK	20175	1RB#0	3000~20000	-32.87	PASS

Band4	5MHz	16QAM	20175	1RB#0	0.009~0.15	-64.44	PASS
Band4	5MHz	16QAM	20175	1RB#0	0.15~30	-53.36	PASS
Band4	5MHz	16QAM	20175	1RB#0	30~1000	-53.89	PASS
Band4	5MHz	16QAM	20175	1RB#0	1000~3000	-48.01	PASS
Band4	5MHz	16QAM	20175	1RB#0	3000~20000	-33.46	PASS
Band4	5MHz	QPSK	20375	1RB#0	0.009~0.15	-65.46	PASS
Band4	5MHz	QPSK	20375	1RB#0	0.15~30	-53.80	PASS
Band4	5MHz	QPSK	20375	1RB#0	30~1000	-53.81	PASS
Band4	5MHz	QPSK	20375	1RB#0	1000~3000	-47.95	PASS
Band4	5MHz	QPSK	20375	1RB#0	3000~20000	-33.25	PASS
Band4	5MHz	16QAM	20375	1RB#0	0.009~0.15	-65.60	PASS
Band4	5MHz	16QAM	20375	1RB#0	0.15~30	-51.63	PASS
Band4	5MHz	16QAM	20375	1RB#0	30~1000	-53.90	PASS
Band4	5MHz	16QAM	20375	1RB#0	1000~3000	-48.07	PASS
Band4	5MHz	16QAM	20375	1RB#0	3000~20000	-33.03	PASS
Band4	10MHz	QPSK	20000	1RB#0	0.009~0.15	-66.98	PASS
Band4	10MHz	QPSK	20000	1RB#0	0.15~30	-52.25	PASS
Band4	10MHz	QPSK	20000	1RB#0	30~1000	-53.87	PASS
Band4	10MHz	QPSK	20000	1RB#0	1000~3000	-45.66	PASS
Band4	10MHz	QPSK	20000	1RB#0	3000~20000	-33.24	PASS
Band4	10MHz	16QAM	20000	1RB#0	0.009~0.15	-65.28	PASS
Band4	10MHz	16QAM	20000	1RB#0	0.15~30	-52.81	PASS
Band4	10MHz	16QAM	20000	1RB#0	30~1000	-53.91	PASS
Band4	10MHz	16QAM	20000	1RB#0	1000~3000	-48.00	PASS
Band4	10MHz	16QAM	20000	1RB#0	3000~20000	-33.01	PASS
Band4	10MHz	QPSK	20175	1RB#0	0.009~0.15	-65.65	PASS
Band4	10MHz	QPSK	20175	1RB#0	0.15~30	-51.16	PASS
Band4	10MHz	QPSK	20175	1RB#0	30~1000	-53.78	PASS
Band4	10MHz	QPSK	20175	1RB#0	1000~3000	-47.99	PASS
Band4	10MHz	QPSK	20175	1RB#0	3000~20000	-33.38	PASS
Band4	10MHz	16QAM	20175	1RB#0	0.009~0.15	-63.93	PASS
Band4	10MHz	16QAM	20175	1RB#0	0.15~30	-54.22	PASS
Band4	10MHz	16QAM	20175	1RB#0	30~1000	-53.89	PASS
Band4	10MHz	16QAM	20175	1RB#0	1000~3000	-47.61	PASS
Band4	10MHz	16QAM	20175	1RB#0	3000~20000	-33.42	PASS
Band4	10MHz	QPSK	20350	1RB#0	0.009~0.15	-67.82	PASS
Band4	10MHz	QPSK	20350	1RB#0	0.15~30	-52.71	PASS
Band4	10MHz	QPSK	20350	1RB#0	30~1000	-53.93	PASS
Band4	10MHz	QPSK	20350	1RB#0	1000~3000	-48.07	PASS
Band4	10MHz	QPSK	20350	1RB#0	3000~20000	-33.58	PASS

Band4	10MHz	16QAM	20350	1RB#0	0.009~0.15	-64.38	PASS
Band4	10MHz	16QAM	20350	1RB#0	0.15~30	-52.42	PASS
Band4	10MHz	16QAM	20350	1RB#0	30~1000	-54.03	PASS
Band4	10MHz	16QAM	20350	1RB#0	1000~3000	-48.08	PASS
Band4	10MHz	16QAM	20350	1RB#0	3000~20000	-33.41	PASS
Band4	15MHz	QPSK	20025	1RB#0	0.009~0.15	-65.13	PASS
Band4	15MHz	QPSK	20025	1RB#0	0.15~30	-51.71	PASS
Band4	15MHz	QPSK	20025	1RB#0	30~1000	-53.92	PASS
Band4	15MHz	QPSK	20025	1RB#0	1000~3000	-44.74	PASS
Band4	15MHz	QPSK	20025	1RB#0	3000~20000	-33.46	PASS
Band4	15MHz	16QAM	20025	1RB#0	0.009~0.15	-68.01	PASS
Band4	15MHz	16QAM	20025	1RB#0	0.15~30	-52.99	PASS
Band4	15MHz	16QAM	20025	1RB#0	30~1000	-53.85	PASS
Band4	15MHz	16QAM	20025	1RB#0	1000~3000	-45.24	PASS
Band4	15MHz	16QAM	20025	1RB#0	3000~20000	-33.31	PASS
Band4	15MHz	QPSK	20175	1RB#0	0.009~0.15	-65.62	PASS
Band4	15MHz	QPSK	20175	1RB#0	0.15~30	-53.63	PASS
Band4	15MHz	QPSK	20175	1RB#0	30~1000	-53.89	PASS
Band4	15MHz	QPSK	20175	1RB#0	1000~3000	-44.26	PASS
Band4	15MHz	QPSK	20175	1RB#0	3000~20000	-33.53	PASS
Band4	15MHz	16QAM	20175	1RB#0	0.009~0.15	-65.27	PASS
Band4	15MHz	16QAM	20175	1RB#0	0.15~30	-52.08	PASS
Band4	15MHz	16QAM	20175	1RB#0	30~1000	-53.96	PASS
Band4	15MHz	16QAM	20175	1RB#0	1000~3000	-44.47	PASS
Band4	15MHz	16QAM	20175	1RB#0	3000~20000	-33.40	PASS
Band4	15MHz	QPSK	20325	1RB#0	0.009~0.15	-65.25	PASS
Band4	15MHz	QPSK	20325	1RB#0	0.15~30	-53.78	PASS
Band4	15MHz	QPSK	20325	1RB#0	30~1000	-53.92	PASS
Band4	15MHz	QPSK	20325	1RB#0	1000~3000	-48.01	PASS
Band4	15MHz	QPSK	20325	1RB#0	3000~20000	-33.36	PASS
Band4	15MHz	16QAM	20325	1RB#0	0.009~0.15	-65.29	PASS
Band4	15MHz	16QAM	20325	1RB#0	0.15~30	-54.04	PASS
Band4	15MHz	16QAM	20325	1RB#0	30~1000	-53.95	PASS
Band4	15MHz	16QAM	20325	1RB#0	1000~3000	-47.73	PASS
Band4	15MHz	16QAM	20325	1RB#0	3000~20000	-33.25	PASS
Band4	20MHz	QPSK	20050	1RB#0	0.009~0.15	-67.06	PASS
Band4	20MHz	QPSK	20050	1RB#0	0.15~30	-53.60	PASS
Band4	20MHz	QPSK	20050	1RB#0	30~1000	-53.80	PASS
Band4	20MHz	QPSK	20050	1RB#0	1000~3000	-42.28	PASS
Band4	20MHz	QPSK	20050	1RB#0	3000~20000	-32.97	PASS

Band4	20MHz	16QAM	20050	1RB#0	0.009~0.15	-65.32	PASS
Band4	20MHz	16QAM	20050	1RB#0	0.15~30	-53.28	PASS
Band4	20MHz	16QAM	20050	1RB#0	30~1000	-53.91	PASS
Band4	20MHz	16QAM	20050	1RB#0	1000~3000	-42.83	PASS
Band4	20MHz	16QAM	20050	1RB#0	3000~20000	-33.30	PASS
Band4	20MHz	QPSK	20175	1RB#0	0.009~0.15	-67.02	PASS
Band4	20MHz	QPSK	20175	1RB#0	0.15~30	-52.64	PASS
Band4	20MHz	QPSK	20175	1RB#0	30~1000	-53.92	PASS
Band4	20MHz	QPSK	20175	1RB#0	1000~3000	-39.83	PASS
Band4	20MHz	QPSK	20175	1RB#0	3000~20000	-33.56	PASS
Band4	20MHz	16QAM	20175	1RB#0	0.009~0.15	-66.24	PASS
Band4	20MHz	16QAM	20175	1RB#0	0.15~30	-53.66	PASS
Band4	20MHz	16QAM	20175	1RB#0	30~1000	-53.78	PASS
Band4	20MHz	16QAM	20175	1RB#0	1000~3000	-40.50	PASS
Band4	20MHz	16QAM	20175	1RB#0	3000~20000	-33.20	PASS
Band4	20MHz	QPSK	20300	1RB#0	0.009~0.15	-66.15	PASS
Band4	20MHz	QPSK	20300	1RB#0	0.15~30	-51.64	PASS
Band4	20MHz	QPSK	20300	1RB#0	30~1000	-53.95	PASS
Band4	20MHz	QPSK	20300	1RB#0	1000~3000	-47.91	PASS
Band4	20MHz	QPSK	20300	1RB#0	3000~20000	-33.10	PASS
Band4	20MHz	16QAM	20300	1RB#0	0.009~0.15	-65.07	PASS
Band4	20MHz	16QAM	20300	1RB#0	0.15~30	-50.72	PASS
Band4	20MHz	16QAM	20300	1RB#0	30~1000	-53.93	PASS
Band4	20MHz	16QAM	20300	1RB#0	1000~3000	-48.09	PASS
Band4	20MHz	16QAM	20300	1RB#0	3000~20000	-33.61	PASS