

Appendix for LTE B4 test report

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Appendix A: Effective (Isotropic) Radiated Power

Output Data

Test Results:

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power[dBm]	EIRP (dBm)	Limit (dBm)	Verdict
Band4	1.4MHz	QPSK	19957	1RB#0	23.87	26.92	30	PASS
Band4	1.4MHz	QPSK	19957	1RB#2	24.08	27.13	30	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	24.10	27.15	30	PASS
Band4	1.4MHz	QPSK	19957	3RB#0	23.87	26.92	30	PASS
Band4	1.4MHz	QPSK	19957	3RB#1	23.85	26.90	30	PASS
Band4	1.4MHz	QPSK	19957	3RB#3	23.84	26.89	30	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	22.76	25.81	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	23.86	26.91	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	23.82	26.87	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	23.73	26.78	30	PASS
Band4	1.4MHz	QPSK	20175	3RB#0	23.75	26.80	30	PASS
Band4	1.4MHz	QPSK	20175	3RB#1	23.73	26.78	30	PASS
Band4	1.4MHz	QPSK	20175	3RB#3	23.66	26.71	30	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	23.13	26.18	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	24.19	27.24	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	24.23	27.28	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	24.33	27.38	30	PASS
Band4	1.4MHz	QPSK	20393	3RB#0	23.95	27.00	30	PASS
Band4	1.4MHz	QPSK	20393	3RB#1	23.91	26.96	30	PASS
Band4	1.4MHz	QPSK	20393	3RB#3	23.96	27.01	30	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	22.96	26.01	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	23.04	26.09	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	23.18	26.23	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	23.30	26.35	30	PASS
Band4	1.4MHz	16QAM	19957	3RB#0	22.75	25.80	30	PASS
Band4	1.4MHz	16QAM	19957	3RB#1	22.71	25.76	30	PASS
Band4	1.4MHz	16QAM	19957	3RB#3	22.66	25.71	30	PASS



Band4	1.4MHz	16QAM	19957	6RB#0	21.82	24.87	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	23.04	26.09	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	23.08	26.13	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	23.00	26.05	30	PASS
Band4	1.4MHz	16QAM	20175	3RB#0	22.87	25.92	30	PASS
Band4	1.4MHz	16QAM	20175	3RB#1	22.85	25.90	30	PASS
Band4	1.4MHz	16QAM	20175	3RB#3	22.84	25.89	30	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	22.40	25.45	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	22.70	25.75	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	23.03	26.08	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	22.98	26.03	30	PASS
Band4	1.4MHz	16QAM	20393	3RB#0	23.29	26.34	30	PASS
Band4	1.4MHz	16QAM	20393	3RB#1	23.25	26.30	30	PASS
Band4	1.4MHz	16QAM	20393	3RB#3	23.22	26.27	30	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	22.20	25.25	30	PASS
Band4	3MHz	QPSK	19965	1RB#0	23.88	26.93	30	PASS
Band4	3MHz	QPSK	19965	1RB#8	24.00	27.05	30	PASS
Band4	3MHz	QPSK	19965	1RB#14	24.03	27.08	30	PASS
Band4	3MHz	QPSK	19965	8RB#0	22.85	25.90	30	PASS
Band4	3MHz	QPSK	19965	8RB#4	22.83	25.88	30	PASS
Band4	3MHz	QPSK	19965	8RB#7	22.88	25.93	30	PASS
Band4	3MHz	QPSK	19965	15RB#0	22.86	25.91	30	PASS
Band4	3MHz	QPSK	20175	1RB#0	23.85	26.90	30	PASS
Band4	3MHz	QPSK	20175	1RB#8	23.77	26.82	30	PASS
Band4	3MHz	QPSK	20175	1RB#14	23.60	26.65	30	PASS
Band4	3MHz	QPSK	20175	8RB#0	23.08	26.13	30	PASS
Band4	3MHz	QPSK	20175	8RB#4	23.06	26.11	30	PASS
Band4	3MHz	QPSK	20175	8RB#7	23.08	26.13	30	PASS
Band4	3MHz	QPSK	20175	15RB#0	23.09	26.14	30	PASS
Band4	3MHz	QPSK	20385	1RB#0	23.96	27.01	30	PASS
Band4	3MHz	QPSK	20385	1RB#8	24.07	27.12	30	PASS
Band4	3MHz	QPSK	20385	1RB#14	24.13	27.18	30	PASS
Band4	3MHz	QPSK	20385	8RB#0	23.17	26.22	30	PASS
Band4	3MHz	QPSK	20385	8RB#4	23.12	26.17	30	PASS



Band4	3MHz	QPSK	20385	8RB#7	23.02	26.07	30	PASS
Band4	3MHz	QPSK	20385	15RB#0	23.02	26.07	30	PASS
Band4	3MHz	16QAM	19965	1RB#0	23.18	26.23	30	PASS
Band4	3MHz	16QAM	19965	1RB#8	23.12	26.17	30	PASS
Band4	3MHz	16QAM	19965	1RB#14	22.81	25.86	30	PASS
Band4	3MHz	16QAM	19965	8RB#0	22.05	25.10	30	PASS
Band4	3MHz	16QAM	19965	8RB#4	22.02	25.07	30	PASS
Band4	3MHz	16QAM	19965	8RB#7	22.08	25.13	30	PASS
Band4	3MHz	16QAM	19965	15RB#0	21.86	24.91	30	PASS
Band4	3MHz	16QAM	20175	1RB#0	23.08	26.13	30	PASS
Band4	3MHz	16QAM	20175	1RB#8	22.86	25.91	30	PASS
Band4	3MHz	16QAM	20175	1RB#14	22.83	25.88	30	PASS
Band4	3MHz	16QAM	20175	8RB#0	22.14	25.19	30	PASS
Band4	3MHz	16QAM	20175	8RB#4	22.07	25.12	30	PASS
Band4	3MHz	16QAM	20175	8RB#7	21.99	25.04	30	PASS
Band4	3MHz	16QAM	20175	15RB#0	22.09	25.14	30	PASS
Band4	3MHz	16QAM	20385	1RB#0	23.44	26.49	30	PASS
Band4	3MHz	16QAM	20385	1RB#8	23.35	26.40	30	PASS
Band4	3MHz	16QAM	20385	1RB#14	23.33	26.38	30	PASS
Band4	3MHz	16QAM	20385	8RB#0	22.46	25.51	30	PASS
Band4	3MHz	16QAM	20385	8RB#4	22.42	25.47	30	PASS
Band4	3MHz	16QAM	20385	8RB#7	22.50	25.55	30	PASS
Band4	3MHz	16QAM	20385	15RB#0	22.01	25.06	30	PASS
Band4	5MHz	QPSK	19975	1RB#0	23.67	26.72	30	PASS
Band4	5MHz	QPSK	19975	1RB#12	23.63	26.68	30	PASS
Band4	5MHz	QPSK	19975	1RB#24	23.75	26.80	30	PASS
Band4	5MHz	QPSK	19975	12RB#0	22.76	25.81	30	PASS
Band4	5MHz	QPSK	19975	12RB#6	22.72	25.77	30	PASS
Band4	5MHz	QPSK	19975	12RB#13	22.82	25.87	30	PASS
Band4	5MHz	QPSK	19975	25RB#0	22.72	25.77	30	PASS
Band4	5MHz	QPSK	20175	1RB#0	23.64	26.69	30	PASS
Band4	5MHz	QPSK	20175	1RB#12	23.64	26.69	30	PASS
Band4	5MHz	QPSK	20175	1RB#24	23.60	26.65	30	PASS
Band4	5MHz	QPSK	20175	12RB#0	23.19	26.24	30	PASS



Band4	5MHz	QPSK	20175	12RB#6	23.11	26.16	30	PASS
Band4	5MHz	QPSK	20175	12RB#13	22.99	26.04	30	PASS
Band4	5MHz	QPSK	20175	25RB#0	23.03	26.08	30	PASS
Band4	5MHz	QPSK	20375	1RB#0	23.86	26.91	30	PASS
Band4	5MHz	QPSK	20375	1RB#12	24.15	27.20	30	PASS
Band4	5MHz	QPSK	20375	1RB#24	24.10	27.15	30	PASS
Band4	5MHz	QPSK	20375	12RB#0	22.99	26.04	30	PASS
Band4	5MHz	QPSK	20375	12RB#6	22.92	25.97	30	PASS
Band4	5MHz	QPSK	20375	12RB#13	23.10	26.15	30	PASS
Band4	5MHz	QPSK	20375	25RB#0	23.09	26.14	30	PASS
Band4	5MHz	16QAM	19975	1RB#0	22.47	25.52	30	PASS
Band4	5MHz	16QAM	19975	1RB#12	22.10	25.15	30	PASS
Band4	5MHz	16QAM	19975	1RB#24	22.19	25.24	30	PASS
Band4	5MHz	16QAM	19975	12RB#0	21.78	24.83	30	PASS
Band4	5MHz	16QAM	19975	12RB#6	21.73	24.78	30	PASS
Band4	5MHz	16QAM	19975	12RB#13	21.86	24.91	30	PASS
Band4	5MHz	16QAM	19975	25RB#0	21.85	24.90	30	PASS
Band4	5MHz	16QAM	20175	1RB#0	23.22	26.27	30	PASS
Band4	5MHz	16QAM	20175	1RB#12	23.21	26.26	30	PASS
Band4	5MHz	16QAM	20175	1RB#24	22.89	25.94	30	PASS
Band4	5MHz	16QAM	20175	12RB#0	22.17	25.22	30	PASS
Band4	5MHz	16QAM	20175	12RB#6	22.03	25.08	30	PASS
Band4	5MHz	16QAM	20175	12RB#13	22.00	25.05	30	PASS
Band4	5MHz	16QAM	20175	25RB#0	22.08	25.13	30	PASS
Band4	5MHz	16QAM	20375	1RB#0	23.00	26.05	30	PASS
Band4	5MHz	16QAM	20375	1RB#12	22.90	25.95	30	PASS
Band4	5MHz	16QAM	20375	1RB#24	22.96	26.01	30	PASS
Band4	5MHz	16QAM	20375	12RB#0	22.23	25.28	30	PASS
Band4	5MHz	16QAM	20375	12RB#6	22.18	25.23	30	PASS
Band4	5MHz	16QAM	20375	12RB#13	22.19	25.24	30	PASS
Band4	5MHz	16QAM	20375	25RB#0	22.13	25.18	30	PASS
Band4	10MHz	QPSK	20000	1RB#0	23.83	26.88	30	PASS
Band4	10MHz	QPSK	20000	1RB#24	23.97	27.02	30	PASS
Band4	10MHz	QPSK	20000	1RB#49	23.95	27.00	30	PASS



Band4	10MHz	QPSK	20000	25RB#0	22.85	25.90	30	PASS
Band4	10MHz	QPSK	20000	25RB#12	22.80	25.85	30	PASS
Band4	10MHz	QPSK	20000	25RB#25	22.97	26.02	30	PASS
Band4	10MHz	QPSK	20000	50RB#0	22.88	25.93	30	PASS
Band4	10MHz	QPSK	20175	1RB#0	23.38	26.43	30	PASS
Band4	10MHz	QPSK	20175	1RB#24	23.73	26.78	30	PASS
Band4	10MHz	QPSK	20175	1RB#49	22.62	25.67	30	PASS
Band4	10MHz	QPSK	20175	25RB#0	23.07	26.12	30	PASS
Band4	10MHz	QPSK	20175	25RB#12	23.03	26.08	30	PASS
Band4	10MHz	QPSK	20175	25RB#25	22.97	26.02	30	PASS
Band4	10MHz	QPSK	20175	50RB#0	23.00	26.05	30	PASS
Band4	10MHz	QPSK	20350	1RB#0	22.98	26.03	30	PASS
Band4	10MHz	QPSK	20350	1RB#24	24.41	27.46	30	PASS
Band4	10MHz	QPSK	20350	1RB#49	23.98	27.03	30	PASS
Band4	10MHz	QPSK	20350	25RB#0	23.16	26.21	30	PASS
Band4	10MHz	QPSK	20350	25RB#12	23.14	26.19	30	PASS
Band4	10MHz	QPSK	20350	25RB#25	23.17	26.22	30	PASS
Band4	10MHz	QPSK	20350	50RB#0	23.12	26.17	30	PASS
Band4	10MHz	16QAM	20000	1RB#0	23.25	26.30	30	PASS
Band4	10MHz	16QAM	20000	1RB#24	23.40	26.45	30	PASS
Band4	10MHz	16QAM	20000	1RB#49	23.37	26.42	30	PASS
Band4	10MHz	16QAM	20000	25RB#0	21.98	25.03	30	PASS
Band4	10MHz	16QAM	20000	25RB#12	21.94	24.99	30	PASS
Band4	10MHz	16QAM	20000	25RB#25	22.02	25.07	30	PASS
Band4	10MHz	16QAM	20000	50RB#0	21.95	25.00	30	PASS
Band4	10MHz	16QAM	20175	1RB#0	22.57	25.62	30	PASS
Band4	10MHz	16QAM	20175	1RB#24	23.04	26.09	30	PASS
Band4	10MHz	16QAM	20175	1RB#49	21.91	24.96	30	PASS
Band4	10MHz	16QAM	20175	25RB#0	21.98	25.03	30	PASS
Band4	10MHz	16QAM	20175	25RB#12	21.91	24.96	30	PASS
Band4	10MHz	16QAM	20175	25RB#25	21.92	24.97	30	PASS
Band4	10MHz	16QAM	20175	50RB#0	22.06	25.11	30	PASS
Band4	10MHz	16QAM	20350	1RB#0	22.11	25.16	30	PASS
Band4	10MHz	16QAM	20350	1RB#24	23.65	26.70	30	PASS



Band4	10MHz	16QAM	20350	1RB#49	23.41	26.46	30	PASS
Band4	10MHz	16QAM	20350	25RB#0	22.29	25.34	30	PASS
Band4	10MHz	16QAM	20350	25RB#12	22.26	25.31	30	PASS
Band4	10MHz	16QAM	20350	25RB#25	22.28	25.33	30	PASS
Band4	10MHz	16QAM	20350	50RB#0	22.20	25.25	30	PASS
Band4	15MHz	QPSK	20025	1RB#0	23.81	26.86	30	PASS
Band4	15MHz	QPSK	20025	1RB#38	23.90	26.95	30	PASS
Band4	15MHz	QPSK	20025	1RB#74	23.91	26.96	30	PASS
Band4	15MHz	QPSK	20025	38RB#0	22.96	26.01	30	PASS
Band4	15MHz	QPSK	20025	38RB#18	22.92	25.97	30	PASS
Band4	15MHz	QPSK	20025	38RB#37	22.88	25.93	30	PASS
Band4	15MHz	QPSK	20025	75RB#0	22.91	25.96	30	PASS
Band4	15MHz	QPSK	20175	1RB#0	23.47	26.52	30	PASS
Band4	15MHz	QPSK	20175	1RB#38	23.63	26.68	30	PASS
Band4	15MHz	QPSK	20175	1RB#74	22.43	25.48	30	PASS
Band4	15MHz	QPSK	20175	38RB#0	23.08	26.13	30	PASS
Band4	15MHz	QPSK	20175	38RB#18	23.05	26.10	30	PASS
Band4	15MHz	QPSK	20175	38RB#37	22.98	26.03	30	PASS
Band4	15MHz	QPSK	20175	75RB#0	23.13	26.18	30	PASS
Band4	15MHz	QPSK	20325	1RB#0	22.35	25.40	30	PASS
Band4	15MHz	QPSK	20325	1RB#38	23.93	26.98	30	PASS
Band4	15MHz	QPSK	20325	1RB#74	23.92	26.97	30	PASS
Band4	15MHz	QPSK	20325	38RB#0	23.17	26.22	30	PASS
Band4	15MHz	QPSK	20325	38RB#18	23.11	26.16	30	PASS
Band4	15MHz	QPSK	20325	38RB#37	23.23	26.28	30	PASS
Band4	15MHz	QPSK	20325	75RB#0	23.16	26.21	30	PASS
Band4	15MHz	16QAM	20025	1RB#0	23.30	26.35	30	PASS
Band4	15MHz	16QAM	20025	1RB#38	23.34	26.39	30	PASS
Band4	15MHz	16QAM	20025	1RB#74	22.83	25.88	30	PASS
Band4	15MHz	16QAM	20025	38RB#0	21.95	25.00	30	PASS
Band4	15MHz	16QAM	20025	38RB#18	21.92	24.97	30	PASS
Band4	15MHz	16QAM	20025	38RB#37	22.07	25.12	30	PASS
Band4	15MHz	16QAM	20025	75RB#0	21.89	24.94	30	PASS
Band4	15MHz	16QAM	20175	1RB#0	22.66	25.71	30	PASS



Band4	15MHz	16QAM	20175	1RB#38	22.91	25.96	30	PASS
Band4	15MHz	16QAM	20175	1RB#74	21.71	24.76	30	PASS
Band4	15MHz	16QAM	20175	38RB#0	22.08	25.13	30	PASS
Band4	15MHz	16QAM	20175	38RB#18	22.05	25.10	30	PASS
Band4	15MHz	16QAM	20175	38RB#37	22.07	25.12	30	PASS
Band4	15MHz	16QAM	20175	75RB#0	22.12	25.17	30	PASS
Band4	15MHz	16QAM	20325	1RB#0	21.90	24.95	30	PASS
Band4	15MHz	16QAM	20325	1RB#38	23.04	26.09	30	PASS
Band4	15MHz	16QAM	20325	1RB#74	23.06	26.11	30	PASS
Band4	15MHz	16QAM	20325	38RB#0	22.12	25.17	30	PASS
Band4	15MHz	16QAM	20325	38RB#18	22.07	25.12	30	PASS
Band4	15MHz	16QAM	20325	38RB#37	22.31	25.36	30	PASS
Band4	15MHz	16QAM	20325	75RB#0	22.15	25.20	30	PASS
Band4	20MHz	QPSK	20050	1RB#0	23.48	26.53	30	PASS
Band4	20MHz	QPSK	20050	1RB#49	24.12	27.17	30	PASS
Band4	20MHz	QPSK	20050	1RB#99	23.07	26.12	30	PASS
Band4	20MHz	QPSK	20050	50RB#0	22.98	26.03	30	PASS
Band4	20MHz	QPSK	20050	50RB#25	22.92	25.97	30	PASS
Band4	20MHz	QPSK	20050	50RB#50	23.06	26.11	30	PASS
Band4	20MHz	QPSK	20050	100RB#0	22.99	26.04	30	PASS
Band4	20MHz	QPSK	20175	1RB#0	23.70	26.75	30	PASS
Band4	20MHz	QPSK	20175	1RB#49	23.75	26.80	30	PASS
Band4	20MHz	QPSK	20175	1RB#99	22.41	25.46	30	PASS
Band4	20MHz	QPSK	20175	50RB#0	23.07	26.12	30	PASS
Band4	20MHz	QPSK	20175	50RB#25	23.03	26.08	30	PASS
Band4	20MHz	QPSK	20175	50RB#50	23.07	26.12	30	PASS
Band4	20MHz	QPSK	20175	100RB#0	23.09	26.14	30	PASS
Band4	20MHz	QPSK	20300	1RB#0	22.35	25.40	30	PASS
Band4	20MHz	QPSK	20300	1RB#49	23.91	26.96	30	PASS
Band4	20MHz	QPSK	20300	1RB#99	23.97	27.02	30	PASS
Band4	20MHz	QPSK	20300	50RB#0	23.13	26.18	30	PASS
Band4	20MHz	QPSK	20300	50RB#25	23.08	26.13	30	PASS
Band4	20MHz	QPSK	20300	50RB#50	23.22	26.27	30	PASS
Band4	20MHz	QPSK	20300	100RB#0	23.15	26.20	30	PASS

Band4	20MHz	16QAM	20050	1RB#0	22.97	26.02	30	PASS
Band4	20MHz	16QAM	20050	1RB#49	23.77	26.82	30	PASS
Band4	20MHz	16QAM	20050	1RB#99	22.40	25.45	30	PASS
Band4	20MHz	16QAM	20050	50RB#0	22.08	25.13	30	PASS
Band4	20MHz	16QAM	20050	50RB#25	22.03	25.08	30	PASS
Band4	20MHz	16QAM	20050	50RB#50	22.08	25.13	30	PASS
Band4	20MHz	16QAM	20050	100RB#0	22.10	25.15	30	PASS
Band4	20MHz	16QAM	20175	1RB#0	23.16	26.21	30	PASS
Band4	20MHz	16QAM	20175	1RB#49	23.37	26.42	30	PASS
Band4	20MHz	16QAM	20175	1RB#99	21.92	24.97	30	PASS
Band4	20MHz	16QAM	20175	50RB#0	22.22	25.27	30	PASS
Band4	20MHz	16QAM	20175	50RB#25	22.14	25.19	30	PASS
Band4	20MHz	16QAM	20175	50RB#50	22.01	25.06	30	PASS
Band4	20MHz	16QAM	20175	100RB#0	22.17	25.22	30	PASS
Band4	20MHz	16QAM	20300	1RB#0	21.61	24.66	30	PASS
Band4	20MHz	16QAM	20300	1RB#49	23.22	26.27	30	PASS
Band4	20MHz	16QAM	20300	1RB#99	23.24	26.29	30	PASS
Band4	20MHz	16QAM	20300	50RB#0	22.17	25.22	30	PASS
Band4	20MHz	16QAM	20300	50RB#25	22.11	25.16	30	PASS
Band4	20MHz	16QAM	20300	50RB#50	22.24	25.29	30	PASS
Band4	20MHz	16QAM	20300	100RB#0	22.21	25.26	30	PASS

Note1:

a, For getting the ERP (Efficient Radiated Power) or EIRP (Efficient Isotropic Radiated Power) in substitution method, the following formula should be taken to calculate it,

$$\text{ERP [dBm]} = \text{SGP [dBm]} - \text{Cable Loss [dB]} + \text{Gain [dBd]}$$

$$\text{EIRP [dBm]} = \text{SGP [dBm]} - \text{Cable Loss [dB]} + \text{Gain [dBi]}$$

b, SGP=Signal Generator Level

c, Antenna gain of LTE Band 4 is 3.05dBi.

Note2: SET Span=1.5*OBW

SET RBW=1%of the OBW,not to exceed 1MHz

SET VBW>= 3*RBW

SET Sweep time=auto-couple.

Detector:RMS

Appendix B: Peak-to-Average Ratio

Test Results

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band4	1.4MHz	QPSK	19957	6RB#0	4.94	13	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	5.14	13	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	5.0	13	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	5.70	13	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	5.97	13	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	5.75	13	PASS
Band4	3MHz	QPSK	19965	15RB#0	4.73	13	PASS
Band4	3MHz	QPSK	20175	15RB#0	5.14	13	PASS
Band4	3MHz	QPSK	20385	15RB#0	5.06	13	PASS
Band4	3MHz	16QAM	19965	15RB#0	5.57	13	PASS
Band4	3MHz	16QAM	20175	15RB#0	5.96	13	PASS
Band4	3MHz	16QAM	20385	15RB#0	5.84	13	PASS
Band4	5MHz	QPSK	19975	25RB#0	4.75	13	PASS
Band4	5MHz	QPSK	20175	25RB#0	5.04	13	PASS
Band4	5MHz	QPSK	20375	25RB#0	4.99	13	PASS
Band4	5MHz	16QAM	19975	25RB#0	5.55	13	PASS
Band4	5MHz	16QAM	20175	25RB#0	5.77	13	PASS
Band4	5MHz	16QAM	20375	25RB#0	5.85	13	PASS
Band4	10MHz	QPSK	20000	50RB#0	4.66	13	PASS
Band4	10MHz	QPSK	20175	50RB#0	5.01	13	PASS
Band4	10MHz	QPSK	20350	50RB#0	5.14	13	PASS
Band4	10MHz	16QAM	20000	50RB#0	5.48	13	PASS
Band4	10MHz	16QAM	20175	50RB#0	5.84	13	PASS
Band4	10MHz	16QAM	20350	50RB#0	6.09	13	PASS
Band4	15MHz	QPSK	20025	75RB#0	4.68	13	PASS
Band4	15MHz	QPSK	20175	75RB#0	4.89	13	PASS
Band4	15MHz	QPSK	20325	75RB#0	5.11	13	PASS
Band4	15MHz	16QAM	20025	75RB#0	5.43	13	PASS
Band4	15MHz	16QAM	20175	75RB#0	5.64	13	PASS
Band4	15MHz	16QAM	20325	75RB#0	6.02	13	PASS
Band4	20MHz	QPSK	20050	100RB#0	4.60	13	PASS
Band4	20MHz	QPSK	20175	100RB#0	4.6	13	PASS
Band4	20MHz	QPSK	20300	100RB#0	5.01	13	PASS
Band4	20MHz	16QAM	20050	100RB#0	5.43	13	PASS
Band4	20MHz	16QAM	20175	100RB#0	5.53	13	PASS
Band4	20MHz	16QAM	20300	100RB#0	5.81	13	PASS

Appendix C: Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band4	1.4MHz	QPSK	19957	6RB#0	PASS	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	PASS	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	PASS	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	PASS	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	PASS	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	PASS	PASS
Band4	3MHz	QPSK	19965	15RB#0	PASS	PASS
Band4	3MHz	QPSK	20175	15RB#0	PASS	PASS
Band4	3MHz	QPSK	20385	15RB#0	PASS	PASS
Band4	3MHz	16QAM	19965	15RB#0	PASS	PASS
Band4	3MHz	16QAM	20175	15RB#0	PASS	PASS
Band4	3MHz	16QAM	20385	15RB#0	PASS	PASS
Band4	5MHz	QPSK	19975	25RB#0	PASS	PASS
Band4	5MHz	QPSK	20175	25RB#0	PASS	PASS
Band4	5MHz	QPSK	20375	25RB#0	PASS	PASS
Band4	5MHz	16QAM	19975	25RB#0	PASS	PASS
Band4	5MHz	16QAM	20175	25RB#0	PASS	PASS
Band4	5MHz	16QAM	20375	25RB#0	PASS	PASS
Band4	10MHz	QPSK	20000	50RB#0	PASS	PASS
Band4	10MHz	QPSK	20175	50RB#0	PASS	PASS
Band4	10MHz	QPSK	20350	50RB#0	PASS	PASS
Band4	10MHz	16QAM	20000	50RB#0	PASS	PASS
Band4	10MHz	16QAM	20175	50RB#0	PASS	PASS
Band4	10MHz	16QAM	20350	50RB#0	PASS	PASS
Band4	15MHz	QPSK	20025	75RB#0	PASS	PASS
Band4	15MHz	QPSK	20175	75RB#0	PASS	PASS
Band4	15MHz	QPSK	20325	75RB#0	PASS	PASS
Band4	15MHz	16QAM	20025	75RB#0	PASS	PASS
Band4	15MHz	16QAM	20175	75RB#0	PASS	PASS
Band4	15MHz	16QAM	20325	75RB#0	PASS	PASS
Band4	20MHz	QPSK	20050	100RB#0	PASS	PASS
Band4	20MHz	QPSK	20175	100RB#0	PASS	PASS
Band4	20MHz	QPSK	20300	100RB#0	PASS	PASS
Band4	20MHz	16QAM	20050	100RB#0	PASS	PASS
Band4	20MHz	16QAM	20175	100RB#0	PASS	PASS
Band4	20MHz	16QAM	20300	100RB#0	PASS	PASS

Appendix D: Bandwidth

Test Results:

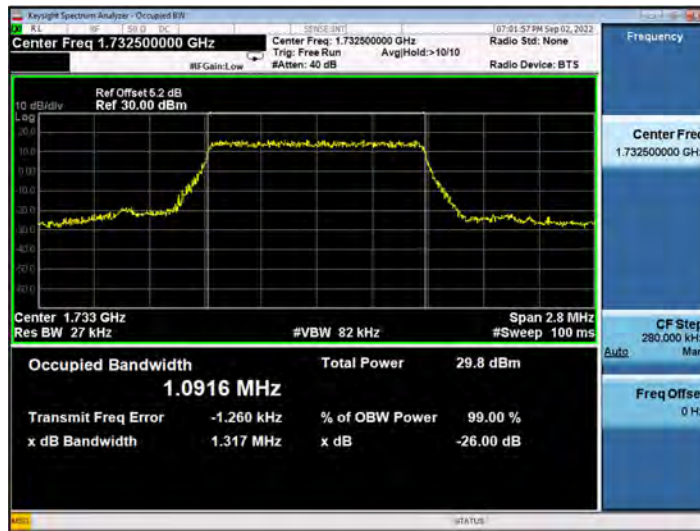
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band4	1.4MHz	QPSK	19957	6RB#0	1.0847	1.284	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	1.0916	1.317	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	1.0997	1.305	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	1.0955	1.288	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	1.0904	1.293	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	1.0898	1.284	PASS
Band4	3MHz	QPSK	19965	15RB#0	2.6955	2.972	PASS
Band4	3MHz	QPSK	20175	15RB#0	2.6982	2.987	PASS
Band4	3MHz	QPSK	20385	15RB#0	2.6992	2.974	PASS
Band4	3MHz	16QAM	19965	15RB#0	2.7013	2.985	PASS
Band4	3MHz	16QAM	20175	15RB#0	2.7019	3.00	PASS
Band4	3MHz	16QAM	20385	15RB#0	2.6992	2.998	PASS
Band4	5MHz	QPSK	19975	25RB#0	4.5135	5.047	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.5054	4.978	PASS
Band4	5MHz	QPSK	20375	25RB#0	4.5101	4.998	PASS
Band4	5MHz	16QAM	19975	25RB#0	4.5081	5.030	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.5043	4.987	PASS
Band4	5MHz	16QAM	20375	25RB#0	4.5011	4.959	PASS
Band4	10MHz	QPSK	20000	50RB#0	8.9529	9.90	PASS
Band4	10MHz	QPSK	20175	50RB#0	8.9667	9.813	PASS
Band4	10MHz	QPSK	20350	50RB#0	8.9735	9.895	PASS
Band4	10MHz	16QAM	20000	50RB#0	8.9355	9.838	PASS
Band4	10MHz	16QAM	20175	50RB#0	8.9604	9.868	PASS
Band4	10MHz	16QAM	20350	50RB#0	8.9760	9.841	PASS
Band4	15MHz	QPSK	20025	75RB#0	13.395	14.65	PASS
Band4	15MHz	QPSK	20175	75RB#0	13.442	14.66	PASS
Band4	15MHz	QPSK	20325	75RB#0	13.402	14.65	PASS
Band4	15MHz	16QAM	20025	75RB#0	13.395	14.59	PASS
Band4	15MHz	16QAM	20175	75RB#0	13.437	14.69	PASS
Band4	15MHz	16QAM	20325	75RB#0	13.422	14.64	PASS
Band4	20MHz	QPSK	20050	100RB#0	17.844	19.29	PASS
Band4	20MHz	QPSK	20175	100RB#0	17.930	19.38	PASS
Band4	20MHz	QPSK	20300	100RB#0	17.876	19.41	PASS
Band4	20MHz	16QAM	20050	100RB#0	17.822	19.28	PASS
Band4	20MHz	16QAM	20175	100RB#0	17.888	19.48	PASS
Band4	20MHz	16QAM	20300	100RB#0	17.891	19.44	PASS

Test Plots

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



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



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



Band4-1.4MHz-16QAM-19957-6RB#0



Band4-1.4MHz-16QAM-20175-6RB#0



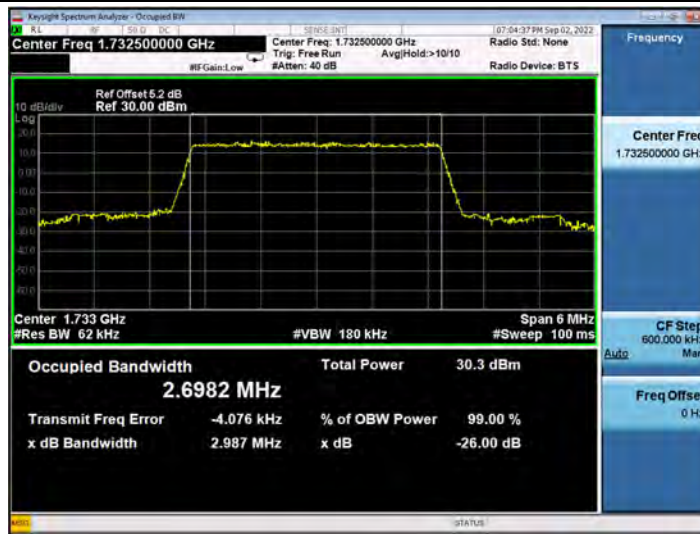
Band4-1.4MHz-16QAM-20393-6RB#0



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



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



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

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



Band4-5MHz-QPSK-20375-25RB#0



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



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



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



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



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



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



Band4-10MHz-16QAM-20000-50RB#0



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



Band4-10MHz-16QAM-20350-50RB#0



Band4-15MHz-QPSK-20025-75RB#0



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



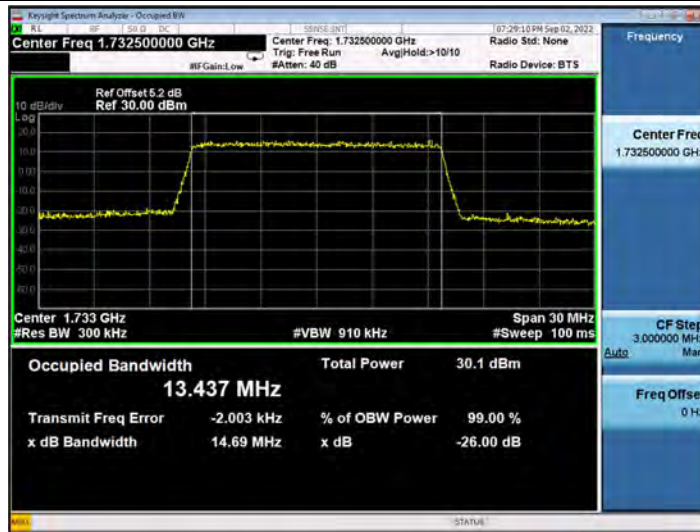
Band4-15MHz-QPSK-20325-75RB#0



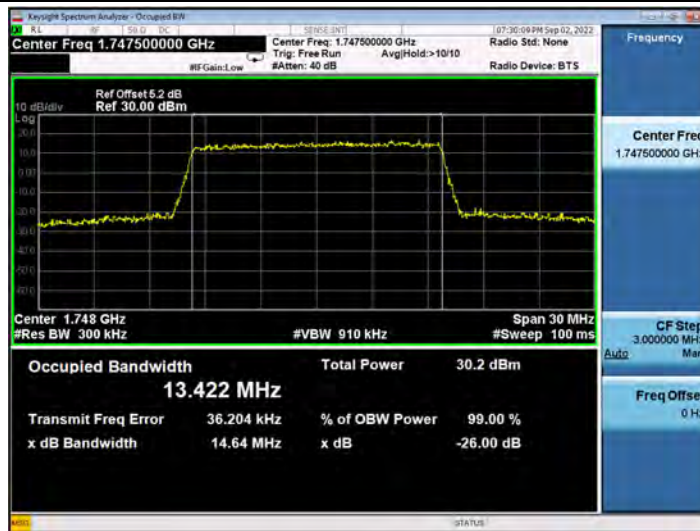
Band4-15MHz-16QAM-20025-75RB#0



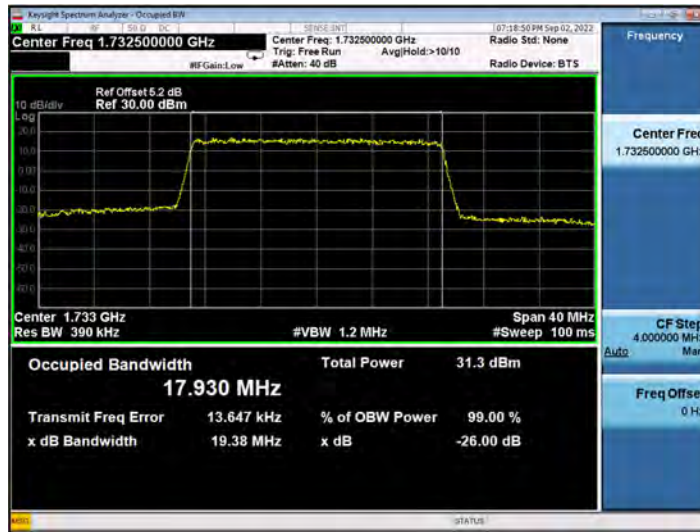
Band4-15MHz-16QAM-20175-75RB#0



Band4-15MHz-16QAM-20325-75RB#0



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

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


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



Band4-20MHz-16QAM-20050-100RB#0



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



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



Appendix E: Band Edges Compliance

Test Results:

Worst Case data as follows:

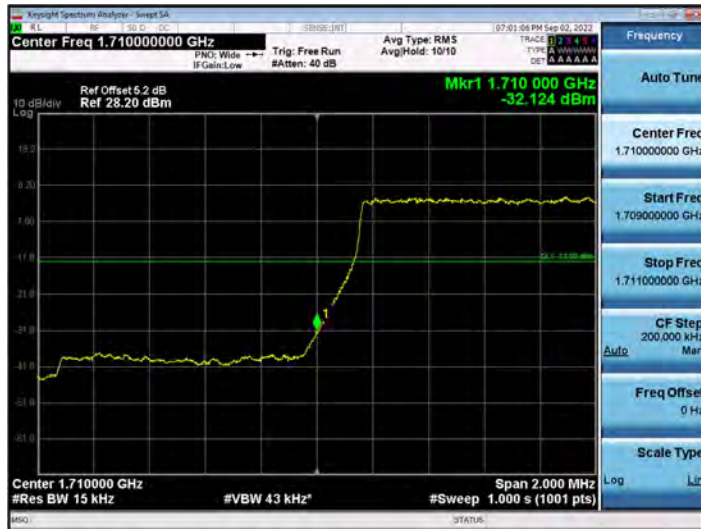
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band4	1.4MHz	QPSK	19957	1RB#0	-26.16	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	-32.12	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	-26.68	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	-31.84	PASS
Band4	3MHz	QPSK	19965	1RB#0	-22.61	PASS
Band4	3MHz	QPSK	19965	15RB#0	-29.90	PASS
Band4	3MHz	QPSK	20385	1RB#0	-22.05	PASS
Band4	3MHz	QPSK	20385	15RB#0	-28.78	PASS
Band4	5MHz	QPSK	19975	1RB#0	-22.41	PASS
Band4	5MHz	QPSK	19975	25RB#0	-30.17	PASS
Band4	5MHz	QPSK	20375	1RB#24	-21.89	PASS
Band4	5MHz	QPSK	20375	25RB#0	-28.96	PASS
Band4	10MHz	QPSK	20000	1RB#0	-31.23	PASS
Band4	10MHz	QPSK	20000	50RB#0	-33.41	PASS
Band4	10MHz	QPSK	20350	1RB#49	-31.34	PASS
Band4	10MHz	QPSK	20350	50RB#0	-31.06	PASS
Band4	15MHz	QPSK	20025	1RB#0	-28.80	PASS
Band4	15MHz	QPSK	20025	75RB#0	-35.73	PASS
Band4	15MHz	QPSK	20325	1RB#74	-28.75	PASS
Band4	15MHz	QPSK	20325	75RB#0	-32.41	PASS
Band4	20MHz	QPSK	20050	1RB#0	-32.99	PASS
Band4	20MHz	QPSK	20050	100RB#0	-37.89	PASS
Band4	20MHz	QPSK	20300	1RB#99	-31.28	PASS
Band4	20MHz	QPSK	20300	100RB#0	-31.86	PASS

Test Plots

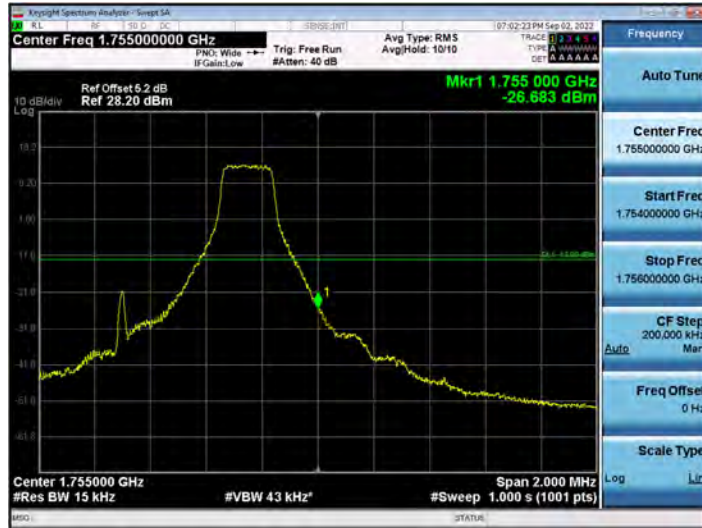
Band4-1.4MHz-QPSK-19957-1RB#0



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



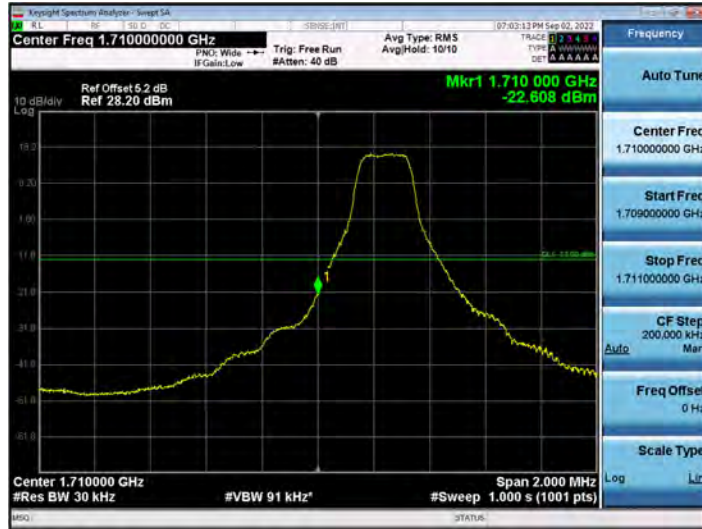
Band4-1.4MHz-QPSK-20393-1RB#0



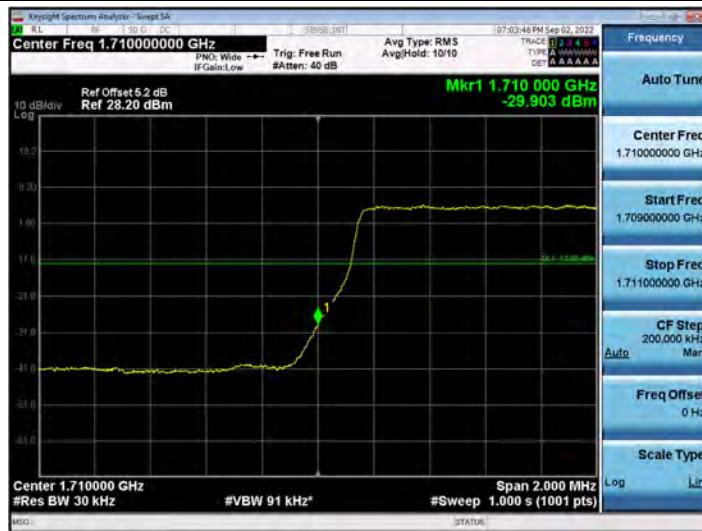
Band4-1.4MHz-QPSK-20393-6RB#0



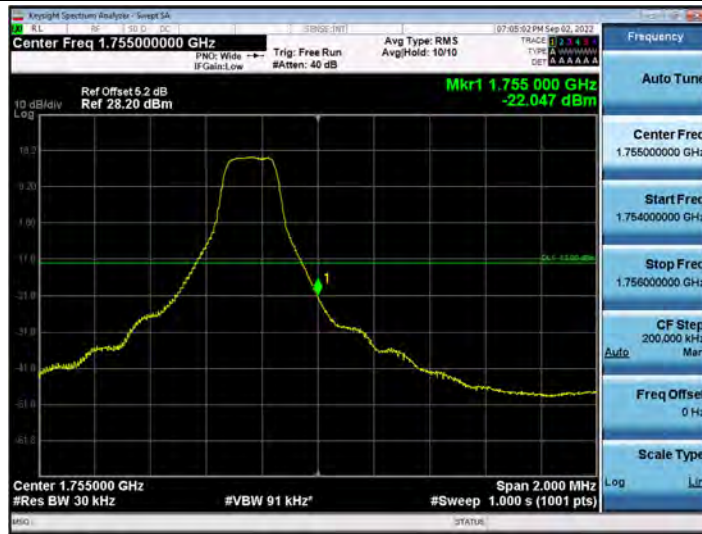
Band4-3MHz-QPSK-19965-1RB#0



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



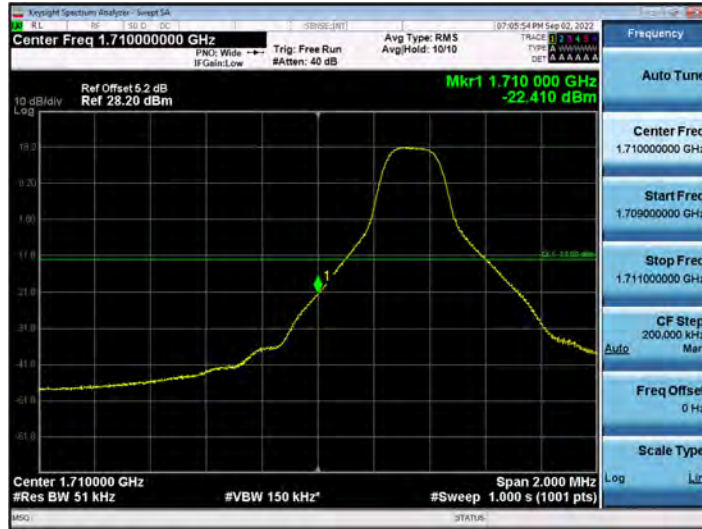
Band4-3MHz-QPSK-20385-1RB#14



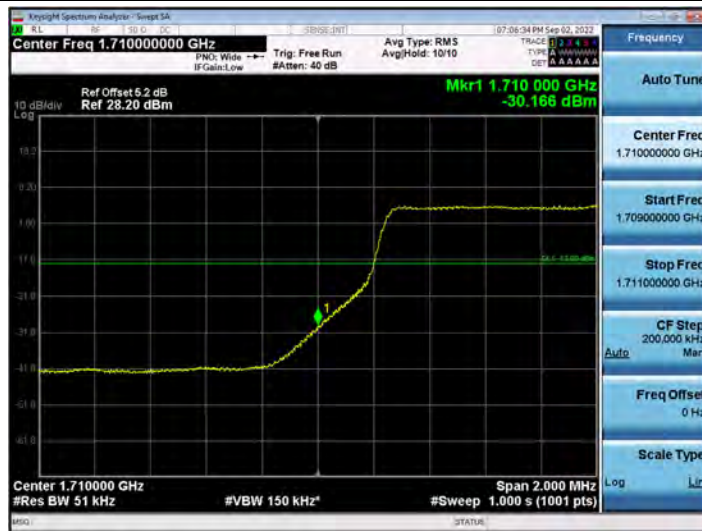
Band4-3MHz-QPSK-20385-15RB#0



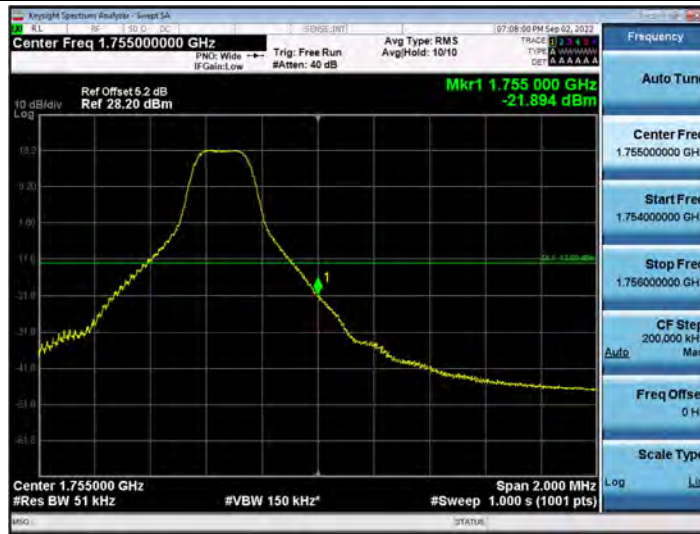
Band4-5MHz-QPSK-19975-1RB#0



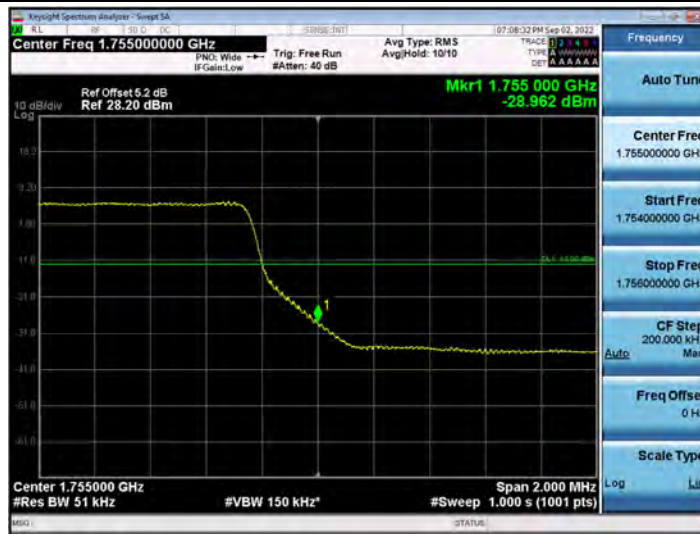
Band4-5MHz-QPSK-19975-25RB#0



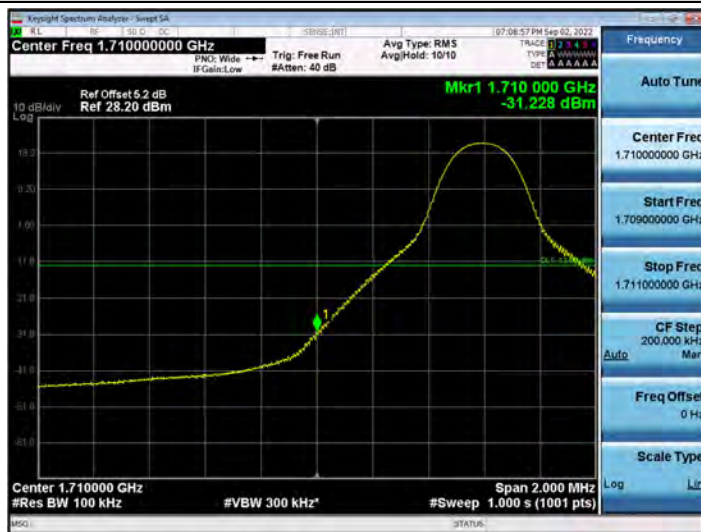
Band4-5MHz-QPSK-20375-1RB#24



Band4-5MHz-QPSK-20375-25RB#0



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



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



Band4-10MHz-QPSK-20350-1RB#49



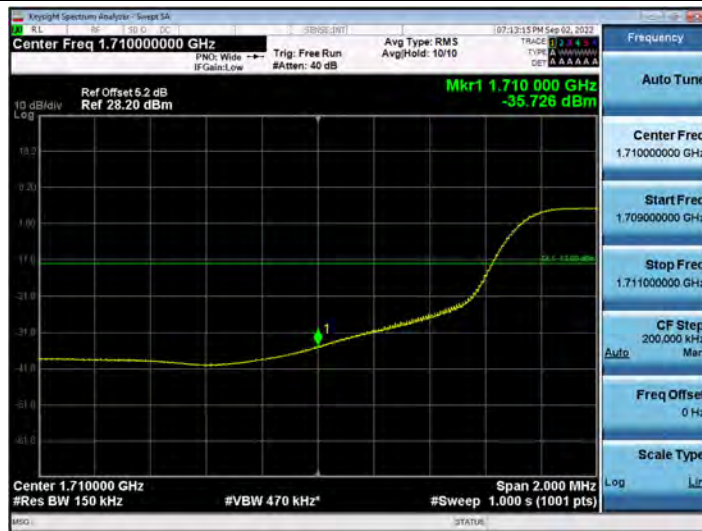
Band4-10MHz-QPSK-20350-50RB#0



Band4-15MHz-QPSK-20025-1RB#0



Band4-15MHz-QPSK-20025-75RB#0



Band4-15MHz-QPSK-20325-1RB#74



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



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



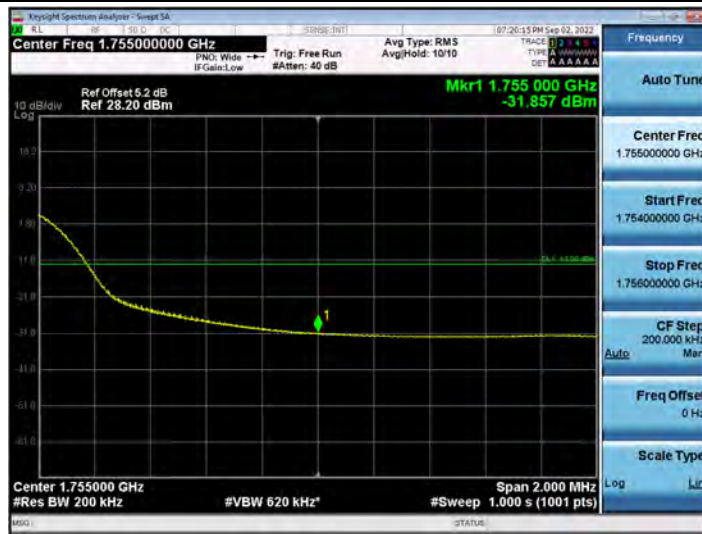
Band4-20MHz-QPSK-20050-100RB#0



Band4-20MHz-QPSK-20300-1RB#99



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



Appendix F Spurious Emission at Antenna Terminals

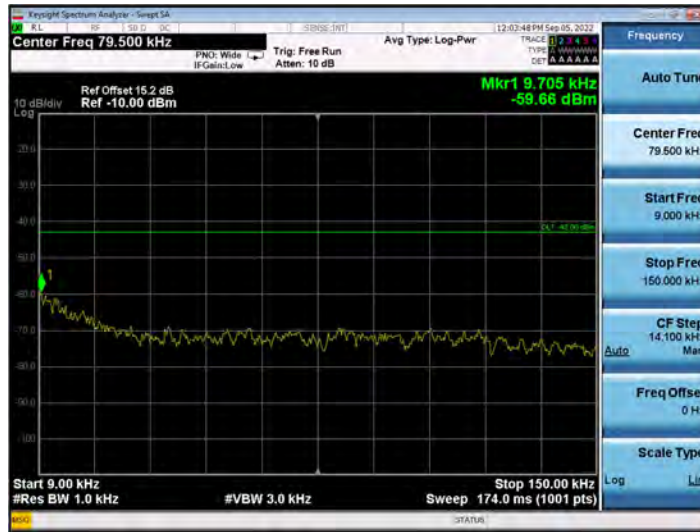
Test Result:

Worst Case data as follows:

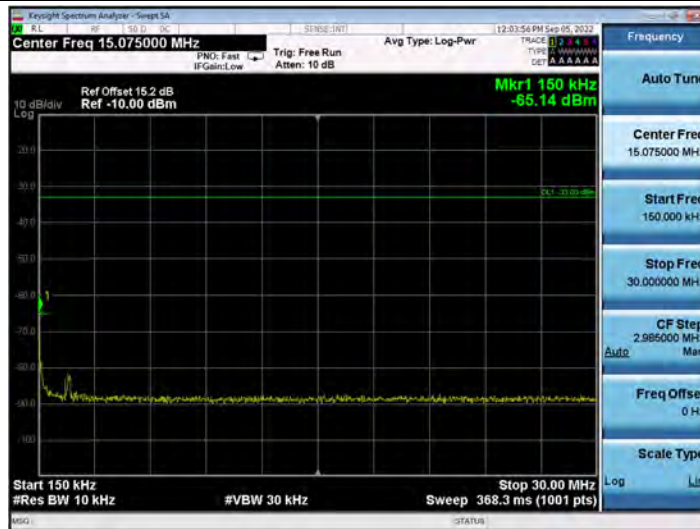
Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band4	1.4MHz	QPSK	20175	1RB#0	Range1:9KHz~150KHz	-59.66	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	Range1: 150KHz~30MHz	-65.14	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	Range1:30~17325MHz	-41.36	PASS
Band4	3MHz	QPSK	20175	1RB#0	Range1:9KHz~150KHz	-60.52	PASS
Band4	3MHz	QPSK	20175	1RB#0	Range1: 150KHz~30MHz	-64.84	PASS
Band4	3MHz	QPSK	20175	1RB#0	Range1:30~17325MHz	-30.07	PASS
Band4	5MHz	QPSK	20175	1RB#0	Range1:9KHz~150KHz	-60.75	PASS
Band4	5MHz	QPSK	20175	1RB#0	Range1: 150KHz~30MHz	-65.55	PASS
Band4	5MHz	QPSK	20175	1RB#0	Range1:30~17325MHz	-41.29	PASS
Band4	10MHz	QPSK	20175	1RB#0	Range1:9KHz~150KHz	-61.11	PASS
Band4	10MHz	QPSK	20175	1RB#0	Range1: 150KHz~30MHz	-66.33	PASS
Band4	10MHz	QPSK	20175	1RB#0	Range1:30~17325MHz	-30.04	PASS
Band4	15MHz	QPSK	20175	1RB#0	Range1:9KHz~150KHz	-60.84	PASS
Band4	15MHz	QPSK	20175	1RB#0	Range1: 150KHz~30MHz	-64.64	PASS
Band4	15MHz	QPSK	20175	1RB#0	Range1:30~17325MHz	-40.15	PASS
Band4	20MHz	QPSK	20175	1RB#0	Range1:9KHz~150KHz	-60.04	PASS
Band4	20MHz	QPSK	20175	1RB#0	Range1: 150KHz~30MHz	-65.89	PASS
Band4	20MHz	QPSK	20175	1RB#0	Range1:30~17325MHz	-29.96	PASS

Test Plots

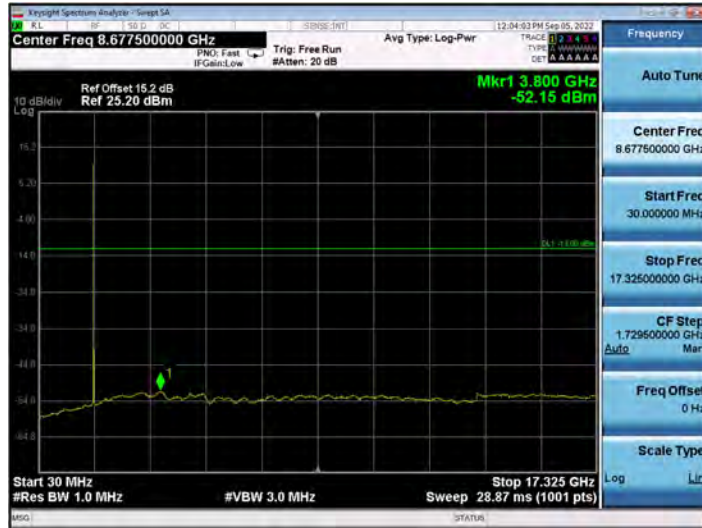
Band4-1.4MHz-QPSK-20175-1RB#0-Range1: 9KHz~150KHz



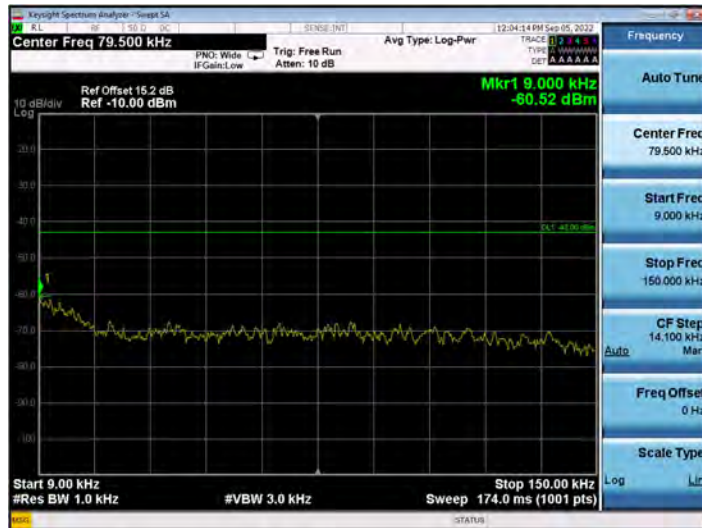
Band4-1.4MHz-QPSK-20175-1RB#0-Range1: 150KHz~30MHz



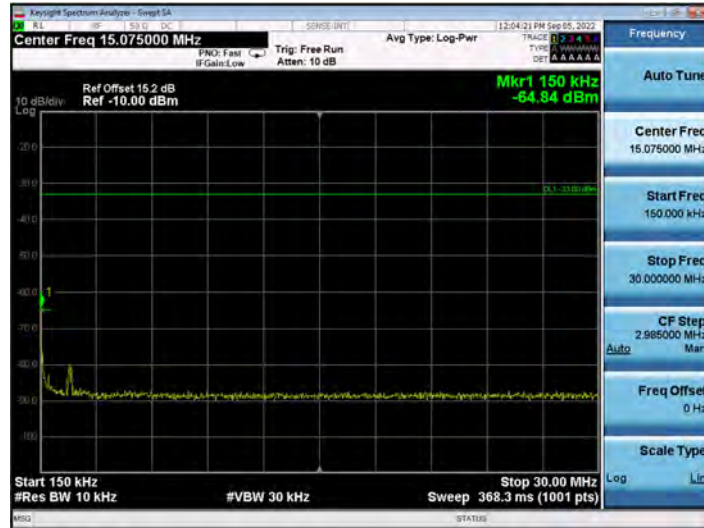
Band4-1.4MHz-QPSK-20175-1RB#0-Range1:30~17325MHz



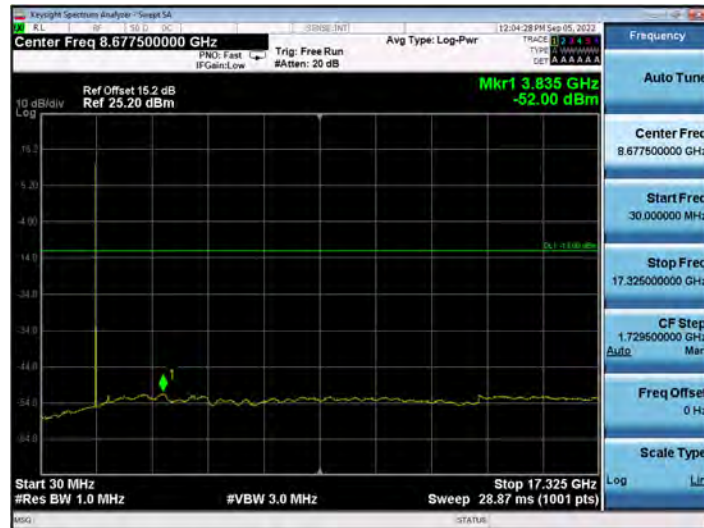
Band4-3MHz-QPSK-20175-1RB#0-Range1: 9KHz~150KHz



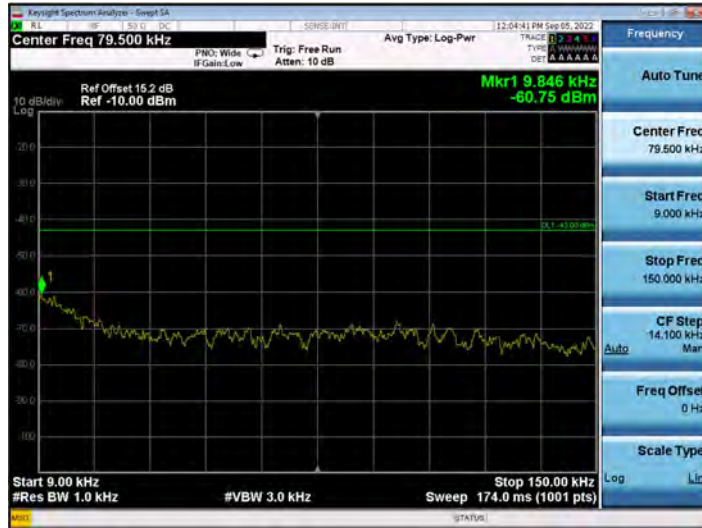
Band4-3MHz-QPSK-20175-1RB#0-Range1: 150KHz~30MHz



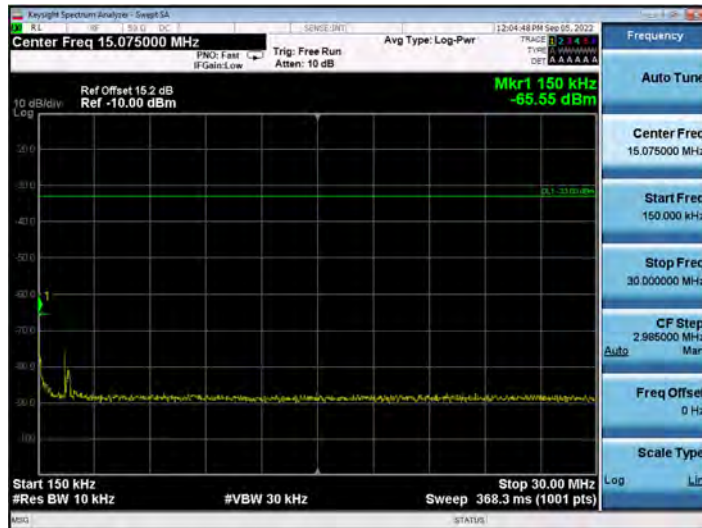
Band4-3MHz-QPSK-20175-1RB#0-Range1:30~17325MHz



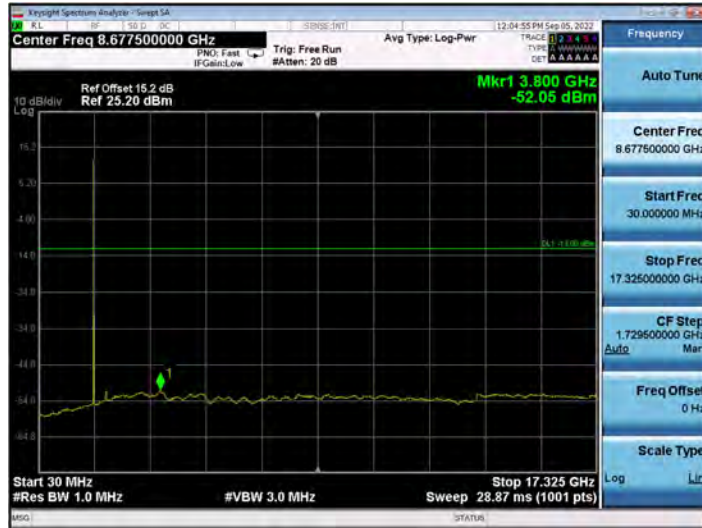
Band4-5MHz-QPSK-20175-1RB#0-Range1: 9KHz~150KHz



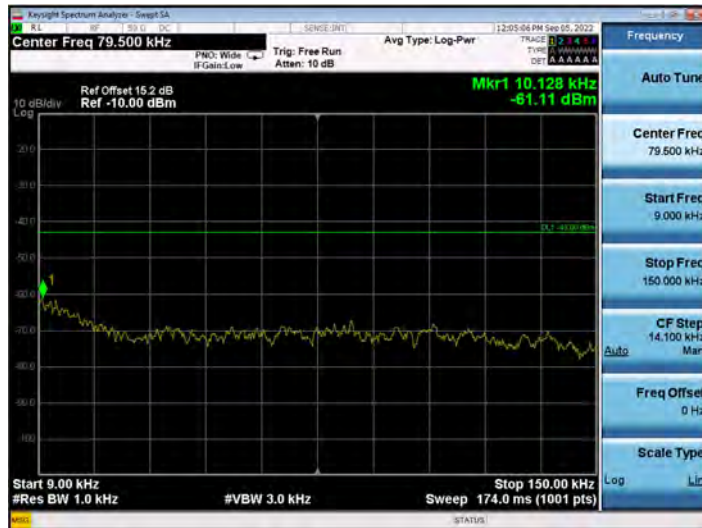
Band4-5MHz-QPSK-20175-1RB#0-Range1: 150KHz~30MHz



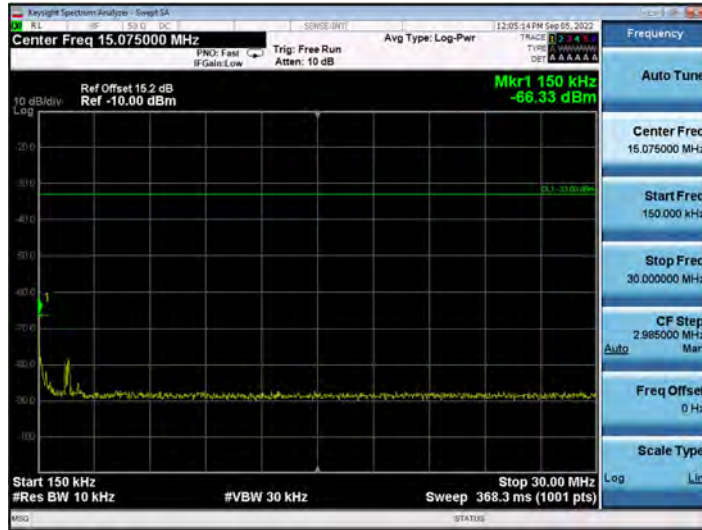
Band4-5MHz-QPSK-20175-1RB#0-Range1:30~17325MHz



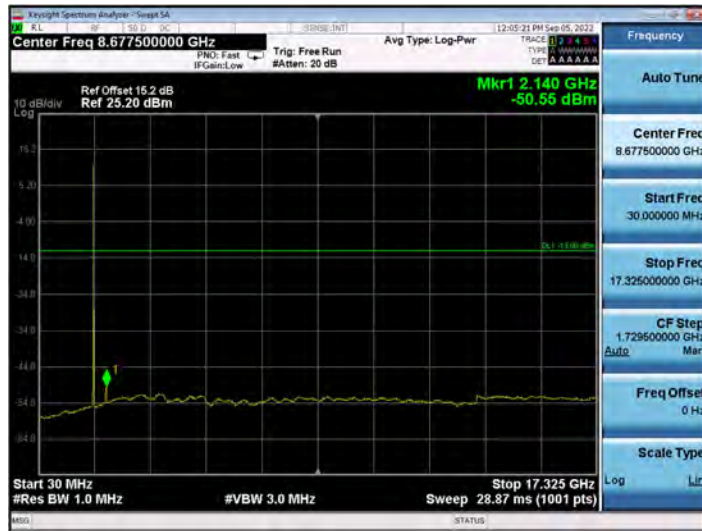
Band4-10MHz-QPSK-20175-1RB#0-Range1: 9KHz~150KHz



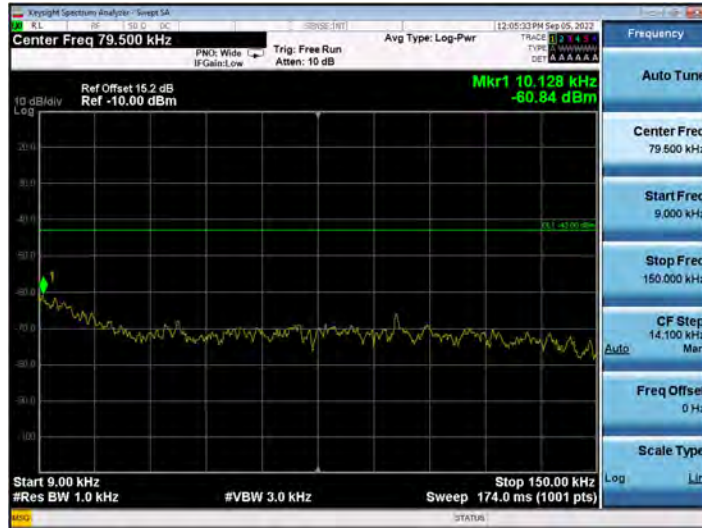
Band4-10MHz-QPSK-20175-1RB#0-Range1: 150KHz~30MHz



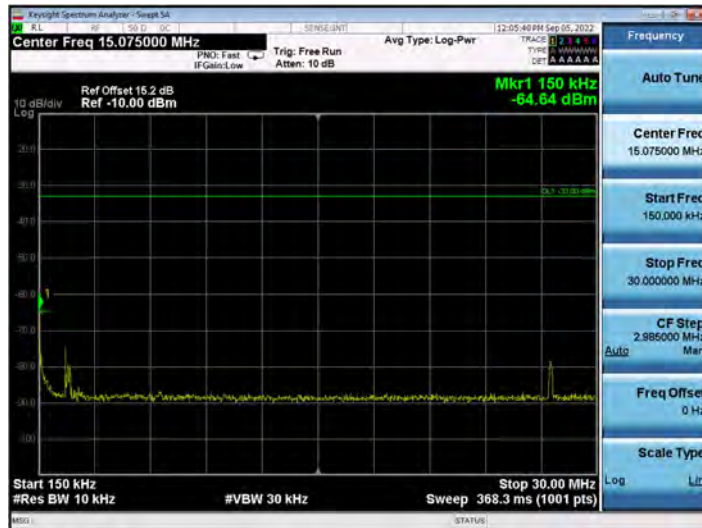
Band4-10MHz-QPSK-20175-1RB#0-Range1:30~17325MHz



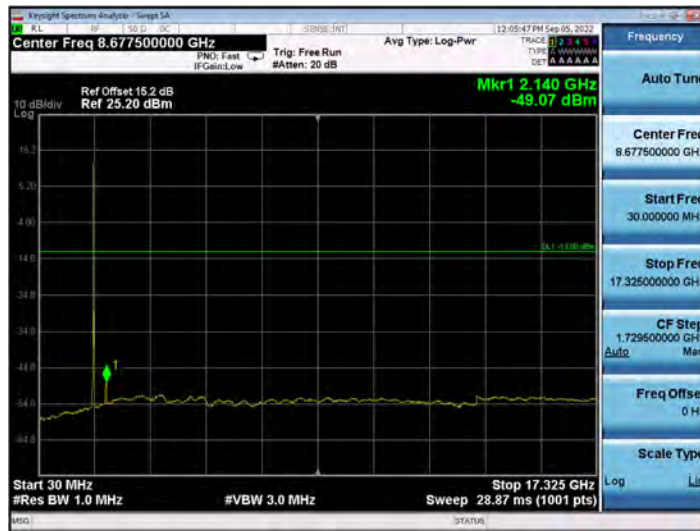
Band4-15MHz-QPSK-20175-1RB#0-Range1: 9KHz~150KHz



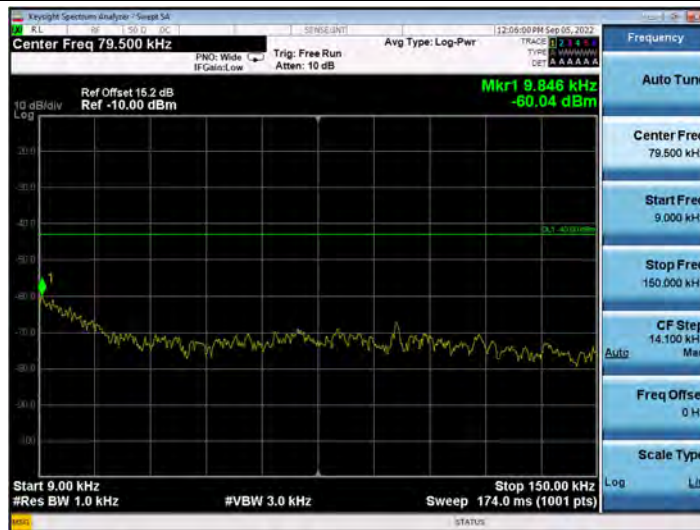
Band4-15MHz-QPSK-20175-1RB#0-Range1: 150KHz~30MHz



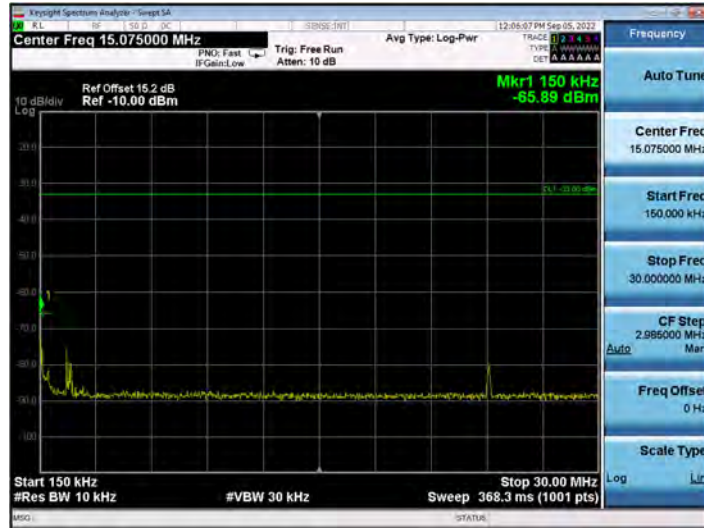
Band4-15MHz-QPSK-20175-1RB#0-Range1:30~17325MHz



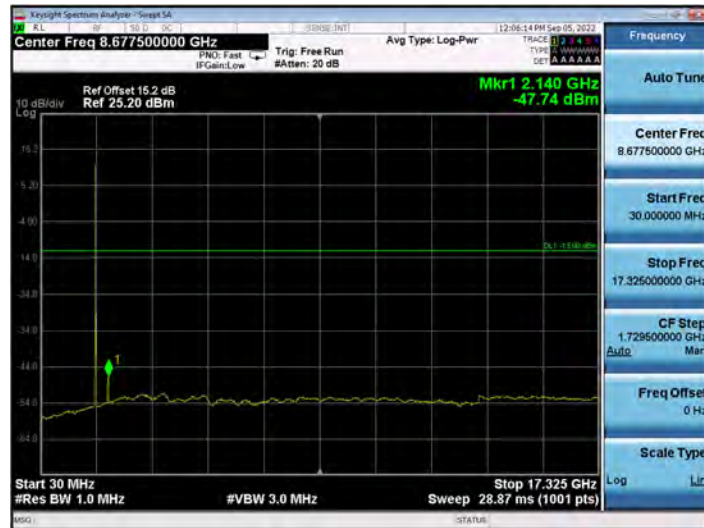
Band4-20MHz-QPSK-20175-1RB#0-Range1: 9KHz~150KHz



Band4-20MHz-QPSK-20175-1RB#0-Range1: 150KHz~30MHz



Band4-20MHz-QPSK-20175-1RB#0-Range1:30~17325MHz



Appendix G Field Strength of Spurious Radiation

The transmitting equipment under test (EUT) is placed on a styrene turntable which is four feet in diameter and approximately 0.8 meter up to 1GHz and 1.5 meter above 1GHz in height above the ground plane. During the radiated emissions test, the turntable is rotated and any cables leaving the EUT are manipulated to find the configuration resulting in maximum emissions. The EUT is adjusted through all three orthogonal axes to obtain maximum emission levels. The antenna height and polarization are varied during the testing to search for maximum signal levels.

The frequency range scanned is from the lowest radio frequency signal generated in the device which is greater than 9 kHz to the tenth harmonic of the highest fundamental frequency or 40 GHz, whichever is lower. The emissions were very low against the limit in the frequency range 9kHz to 30MHz and 18 GHz ~ 20 GHz.

Note: We tested all modes, but the data presented below is the worst case.

9kHz~150kHz, VBW = 200Hz, VBW = 600 Hz, Detector: PK

150kHz~30MHz, VBW = 9kHz, VBW = 30k Hz, Detector: PK

30MHz~1GHz, RBW = 100 kHz, VBW = 300 kHz. Detector: RMS

Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: RMS

Test Plots

Test Band = BAND4

Worst Test Bandwidth = 5MHz(30MHz~1GHz)

Worst Test Bandwidth = 1.4MHz, 5MHz,20MHz, -Middle channel(1GHz~18GHz)

Note:

1. The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.
2. The EUT is tested radiation emission at each test mode in three axes. The worst emissions are reported in all test mode and channels.
3. Measurement = Reading + Correct Factor
Over = Measurement – Limit.

Middle channel Horizontal

Below 1G

BW_5MHz

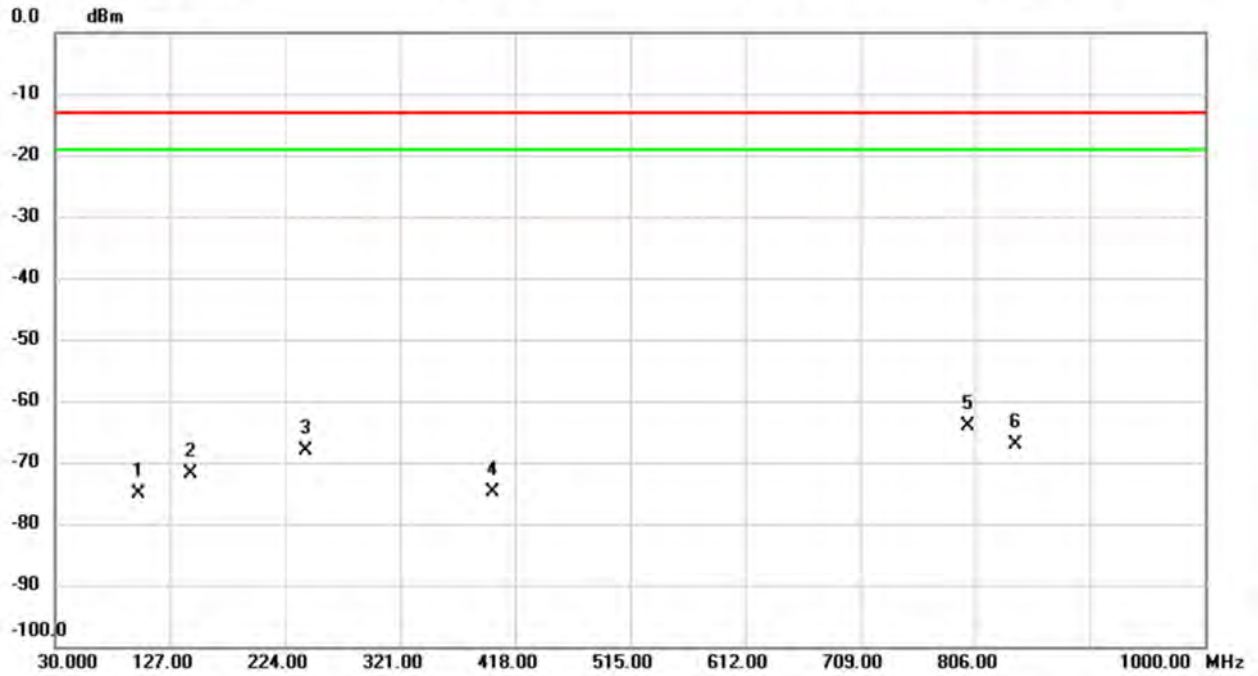
Radiated Emission Measurement

File :FCCP_BELOW1G

Data :#4

Date: 2022/9/13

Time: 11:07:23



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector
1		100.8100	-66.27	-8.97	-75.24	-13.00	-62.24	RMS
2		144.4600	-66.48	-5.41	-71.89	-13.00	-58.89	RMS
3		241.4600	-64.25	-3.91	-68.16	-13.00	-55.16	RMS
4		399.5700	-73.08	-1.76	-74.84	-13.00	-61.84	RMS
5	*	800.1800	-68.51	4.28	-64.23	-13.00	-51.23	RMS
6		839.9500	-71.24	4.22	-67.02	-13.00	-54.02	RMS

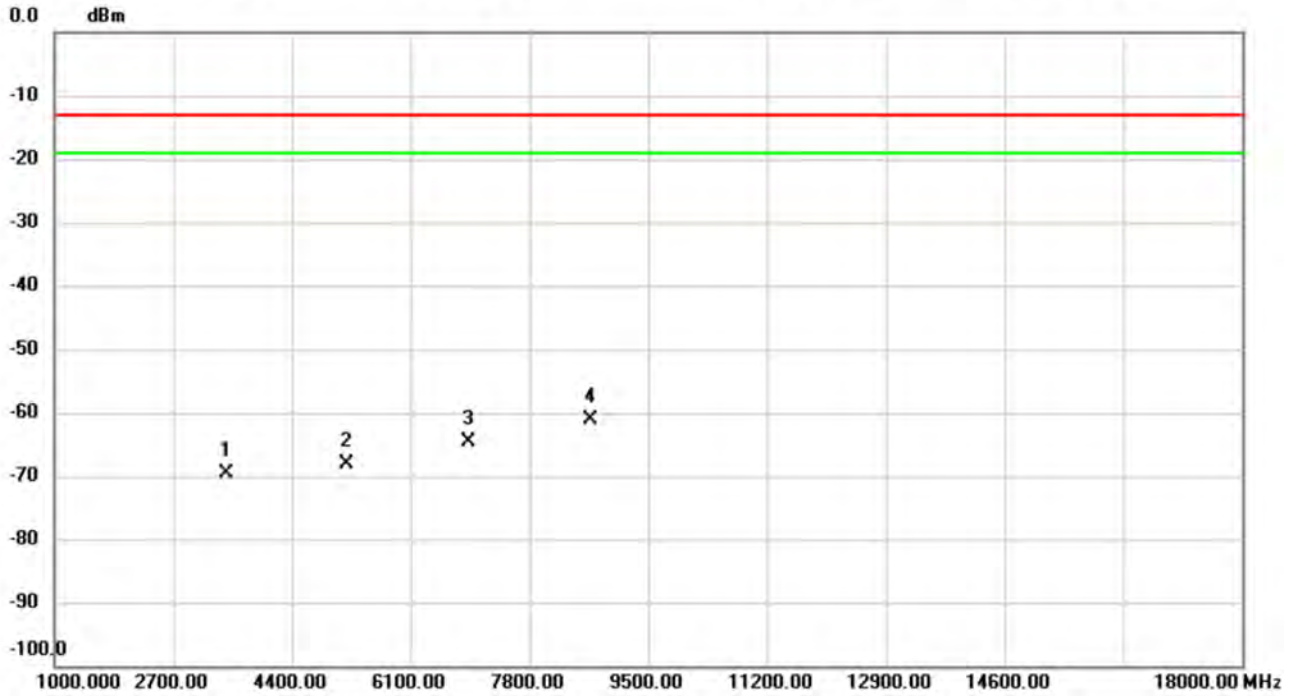
Above 1G
 BW_1.4MHz-
Radiated Emission Measurement

File :FCCP_ABOVE1G

Data :#12

Date: 2022/9/7

Time: 11:49:26



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector
		MHz	dBm	dB	dBm	dBm	dB	
1		3465.000	-61.57	-8.12	-69.69	-13.00	-56.69	RMS
2		5190.750	-63.88	-4.26	-68.14	-13.00	-55.14	RMS
3		6933.000	-63.62	-1.12	-64.74	-13.00	-51.74	RMS
4	*	8667.000	-61.26	0.20	-61.06	-13.00	-48.06	RMS

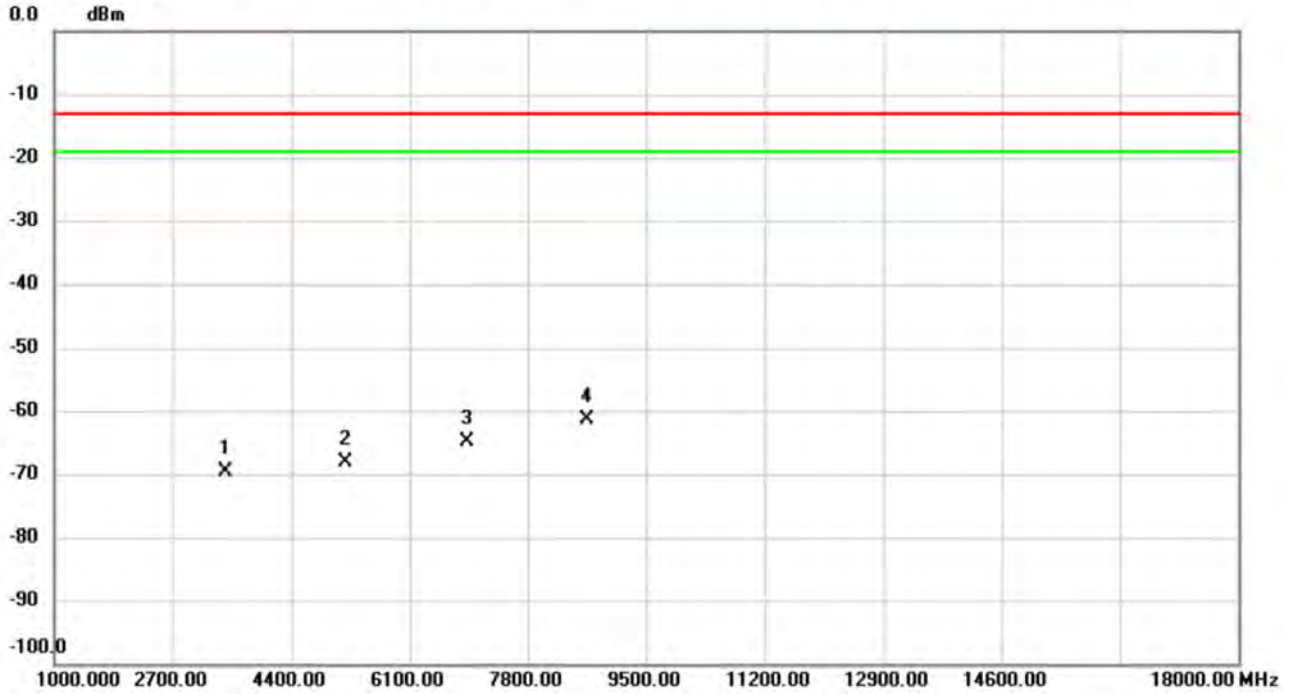
**BW_5MHz-
Radiated Emission Measurement**

File :FCCP_ABOVE1G

Data :#10

Date: 2022/9/7

Time: 11:43:03



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector
1		3465.000	-61.48	-8.12	-69.60	-13.00	-56.60	RMS
2		5190.000	-63.95	-4.26	-68.21	-13.00	-55.21	RMS
3		6916.000	-63.77	-1.16	-64.93	-13.00	-51.93	RMS
4	*	8650.000	-61.46	0.17	-61.29	-13.00	-48.29	RMS

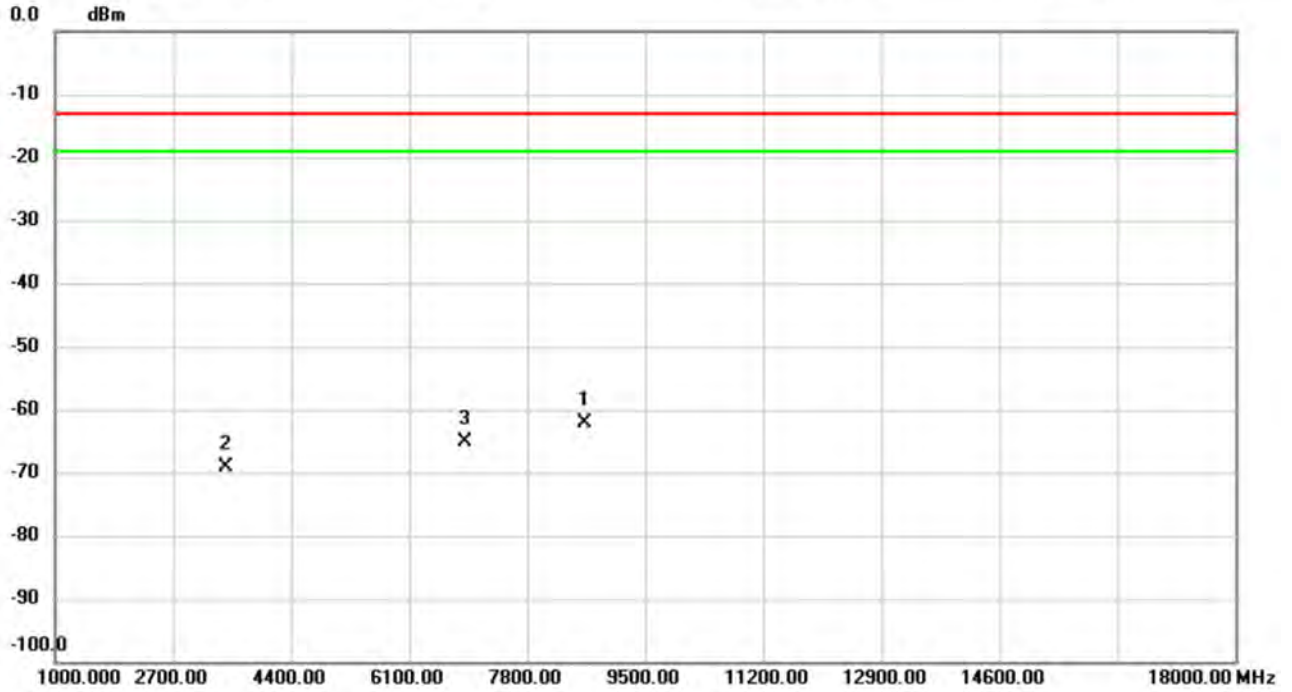
**BW_20MHz-
Radiated Emission Measurement**

File :FCCP_ABOVE1G

Data :#8

Date: 2022/9/7

Time: 11:36:26



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector
1	*	8616.000	-62.11	0.10	-62.01	-13.00	-49.01	RMS
2		3448.000	-60.82	-8.23	-69.05	-13.00	-56.05	RMS
3		6899.000	-63.83	-1.20	-65.03	-13.00	-52.03	RMS

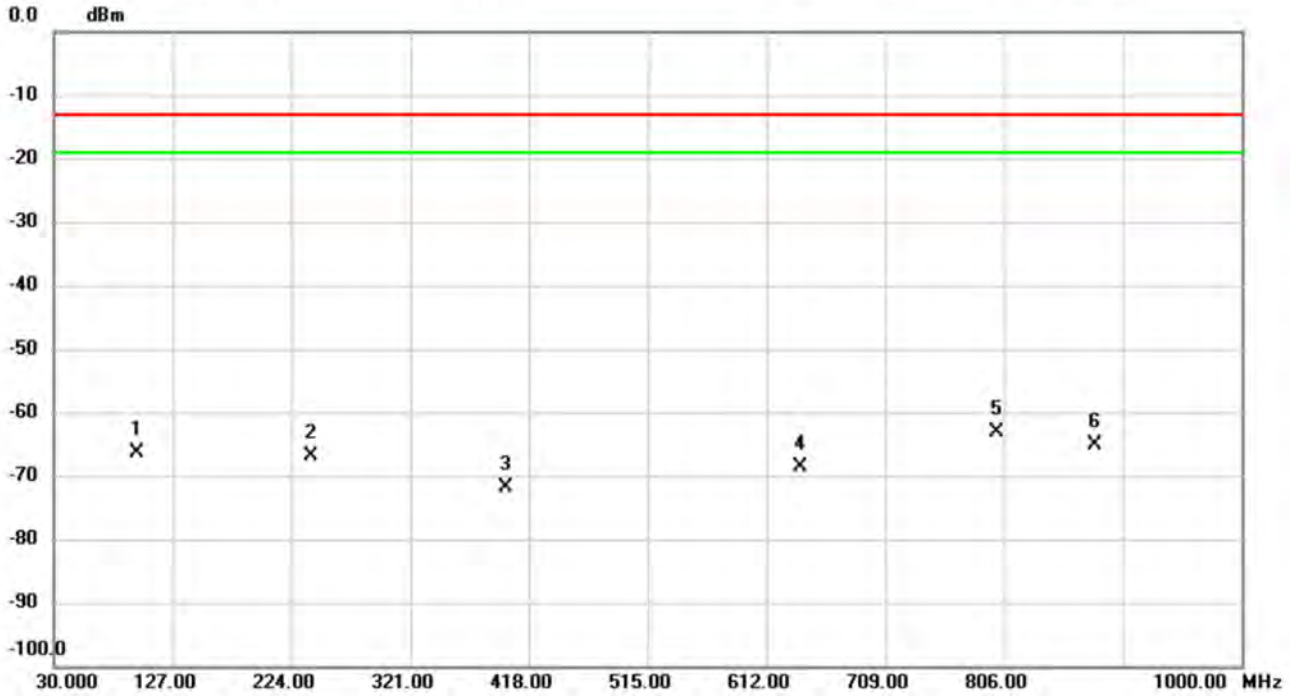
Middle channel Vertical
Below 1G
BW_5MHz
Radiated Emission Measurement

File :FCCP_BELOW1G

Data :#3

Date: 2022/9/13

Time: 11:05:21



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector
1		97.9000	-66.07	-0.41	-66.48	-13.00	-53.48	RMS
2		239.5200	-61.28	-5.49	-66.77	-13.00	-53.77	RMS
3		399.5700	-70.42	-1.55	-71.97	-13.00	-58.97	RMS
4		640.1300	-70.56	1.95	-68.61	-13.00	-55.61	RMS
5	*	800.1800	-66.55	3.44	-63.11	-13.00	-50.11	RMS
6		879.7200	-69.08	3.99	-65.09	-13.00	-52.09	RMS

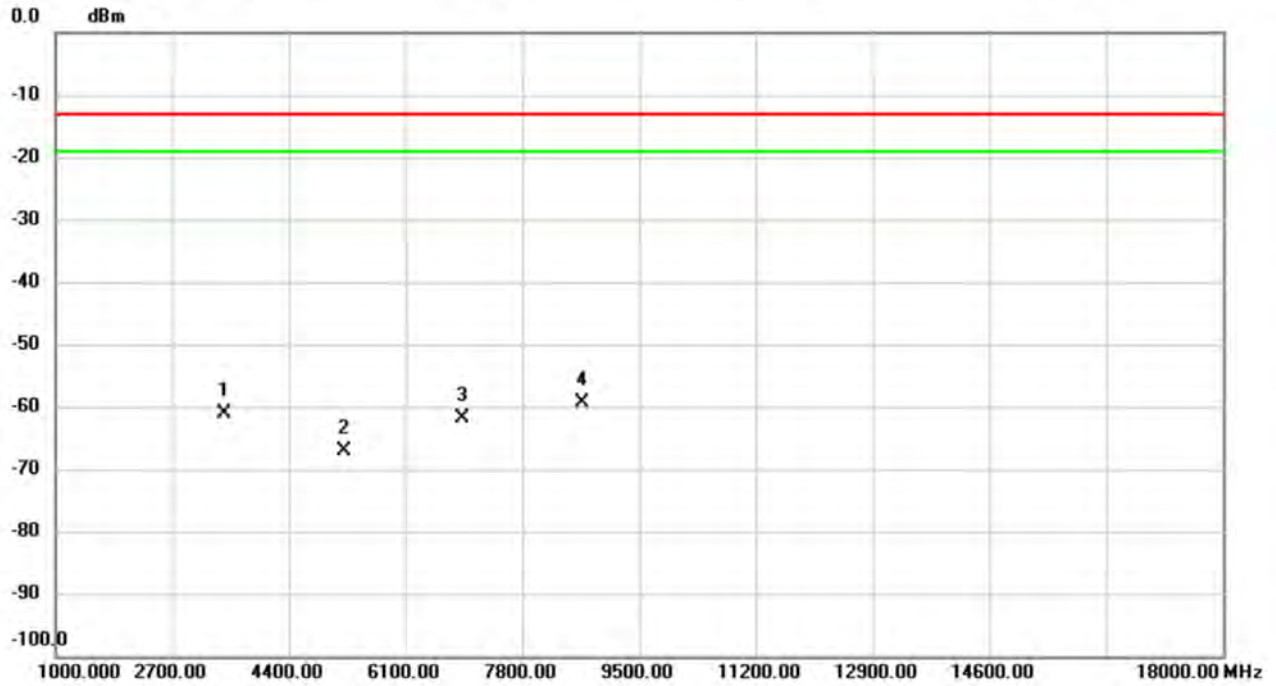
Above IG
 BW_1.4MHz-
Radiated Emission Measurement

File :FCCP_ABOVE1G

Data :#11

Date: 2022/9/7

Time: 11:46:10



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector
1		3465.000	-52.83	-8.18	-61.01	-13.00	-48.01	RMS
2		5199.000	-63.05	-4.08	-67.13	-13.00	-54.13	RMS
3		6933.000	-60.85	-1.10	-61.95	-13.00	-48.95	RMS
4	*	8667.000	-59.90	0.44	-59.46	-13.00	-46.46	RMS

BW_5MHz-

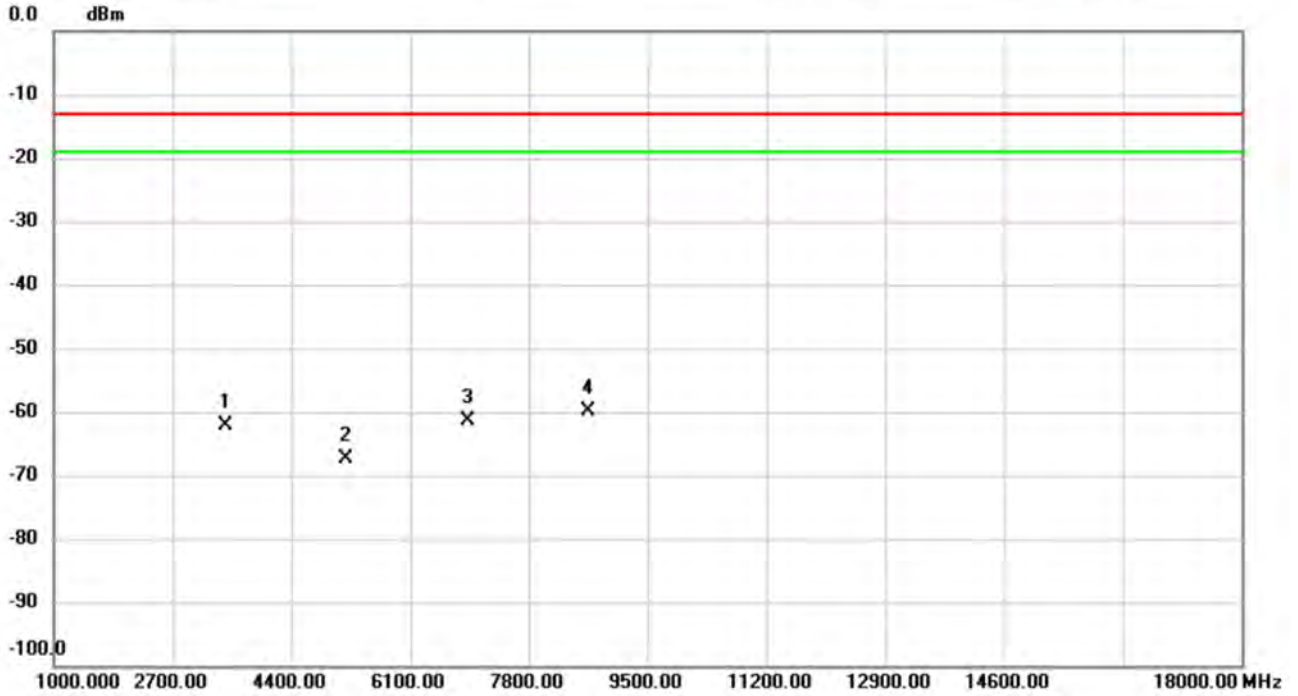
Radiated Emission Measurement

File :FCCP_ABOVE1G

Data :#9

Date: 2022/9/7

Time: 11:39:19



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector
		MHz	dBm	dB	dBm	dBm	dB	
1		3465.000	-53.91	-8.18	-62.09	-13.00	-49.09	RMS
2		5190.750	-63.33	-4.10	-67.43	-13.00	-54.43	RMS
3		6916.000	-60.34	-1.14	-61.48	-13.00	-48.48	RMS
4	*	8650.000	-60.30	0.44	-59.86	-13.00	-46.86	RMS

BW_20MHz

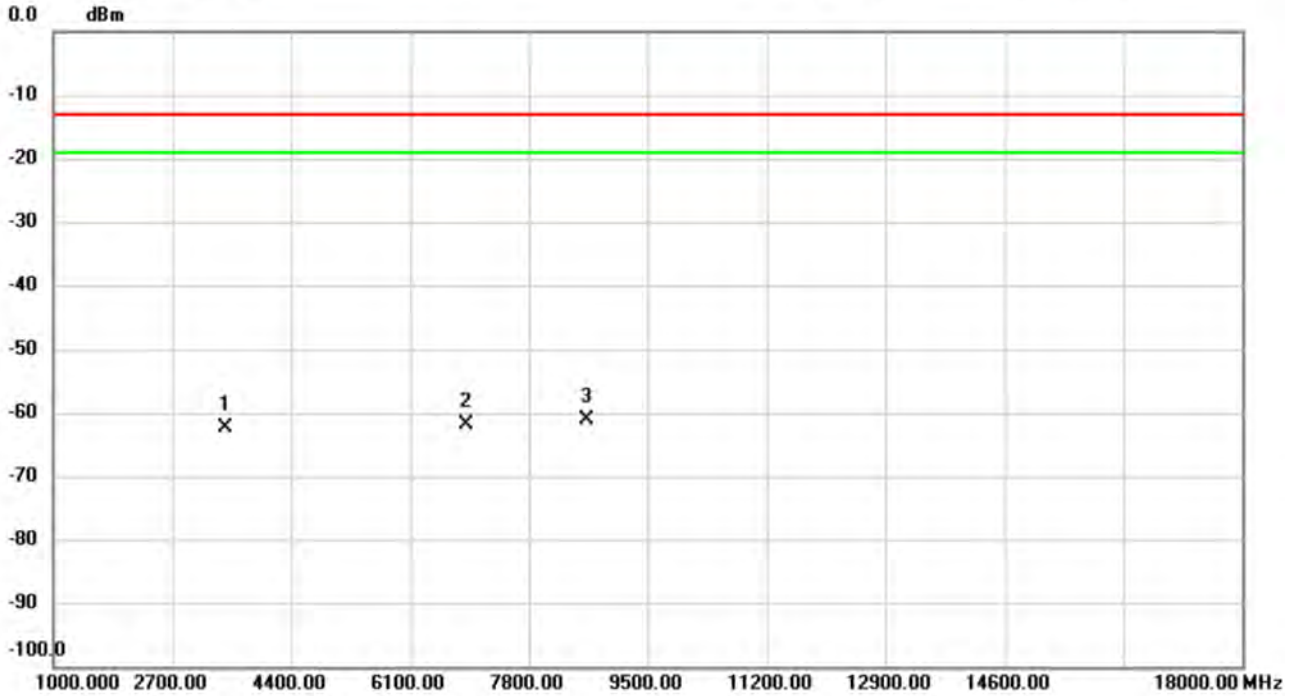
Radiated Emission Measurement

File :FCCP_ABOVE1G

Data :#7

Date: 2022/9/7

Time: 11:35:04



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector
1		3448.000	-54.08	-8.29	-62.37	-13.00	-49.37	RMS
2		6899.000	-60.65	-1.18	-61.83	-13.00	-48.83	RMS
3	*	8616.000	-61.54	0.42	-61.12	-13.00	-48.12	RMS

Appendix H: Frequency Stability

Test Result

Frequency Error vs. Voltage:

Worst Case data as follows:

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4	1.4MHz	QPSK	20175	1RB#0	VH	NT	4.32	0.002493506	±2.5	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	VN	NT	4.31	0.002487734	±2.5	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	VL	NT	6.61	0.003815296	±2.5	PASS
Band4	3MHz	QPSK	20175	1RB#0	VH	NT	3.53	0.002037518	±2.5	PASS
Band4	3MHz	QPSK	20175	1RB#0	VN	NT	3.81	0.002199134	±2.5	PASS
Band4	3MHz	QPSK	20175	1RB#0	VL	NT	6.23	0.00359596	±2.5	PASS
Band4	5MHz	QPSK	20175	1RB#0	VH	NT	6.19	0.003572872	±2.5	PASS
Band4	5MHz	QPSK	20175	1RB#0	VN	NT	6.21	0.003584416	±2.5	PASS
Band4	5MHz	QPSK	20175	1RB#0	VL	NT	5.67	0.003272727	±2.5	PASS
Band4	10MHz	QPSK	20175	1RB#0	VH	NT	4.16	0.002401154	±2.5	PASS
Band4	10MHz	QPSK	20175	1RB#0	VN	NT	4.47	0.002580087	±2.5	PASS
Band4	10MHz	QPSK	20175	1RB#0	VL	NT	4.35	0.002510823	±2.5	PASS
Band4	15MHz	QPSK	20175	1RB#0	VH	NT	6.91	0.003988456	±2.5	PASS
Band4	15MHz	QPSK	20175	1RB#0	VN	NT	5.30	0.003059163	±2.5	PASS
Band4	15MHz	QPSK	20175	1RB#0	VL	NT	6.26	0.003613276	±2.5	PASS
Band4	20MHz	QPSK	20175	1RB#0	VH	NT	4.48	0.002585859	±2.5	PASS
Band4	20MHz	QPSK	20175	1RB#0	VN	NT	5.99	0.003457431	±2.5	PASS
Band4	20MHz	QPSK	20175	1RB#0	VL	NT	4.47	0.002580087	±2.5	PASS

Frequency Error vs. Temperature:
Worst Case data as follows:

Temperature										
Band	Bandwidth h	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4	1.4MHz	QPSK	20175	1RB#0	NV	-40	-5.18	-0.00298990	±2.5	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	NV	-30	6.78	0.00391342	±2.5	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	NV	-20	3.36	0.00193939	±2.5	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	NV	-10	6.53	0.00376912	±2.5	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	NV	0	5.87	0.00338817	±2.5	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	NV	10	-5.37	-0.00309957	±2.5	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	NV	20	4.49	0.00259163	±2.5	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	NV	30	5.98	0.00345166	±2.5	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	NV	40	4.68	0.00270130	±2.5	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	NV	50	3.08	0.00177778	±2.5	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	NV	60	-4.35	-0.00251082	±2.5	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	NV	70	4.19	0.00241847	±2.5	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	NV	80	4.01	0.00231457	±2.5	PASS
Band4	3MHz	QPSK	20175	1RB#0	NV	-40	6.47	0.00373449	±2.5	PASS
Band4	3MHz	QPSK	20175	1RB#0	NV	-30	3.88	0.00223954	±2.5	PASS
Band4	3MHz	QPSK	20175	1RB#0	NV	-20	-4.14	-0.00238961	±2.5	PASS
Band4	3MHz	QPSK	20175	1RB#0	NV	-10	-6.64	-0.00383261	±2.5	PASS
Band4	3MHz	QPSK	20175	1RB#0	NV	0	3.87	0.00223377	±2.5	PASS
Band4	3MHz	QPSK	20175	1RB#0	NV	10	5.11	0.00294949	±2.5	PASS
Band4	3MHz	QPSK	20175	1RB#0	NV	20	4.20	0.00242424	±2.5	PASS
Band4	3MHz	QPSK	20175	1RB#0	NV	30	4.86	0.00280519	±2.5	PASS
Band4	3MHz	QPSK	20175	1RB#0	NV	40	-5.43	-0.00313420	±2.5	PASS
Band4	3MHz	QPSK	20175	1RB#0	NV	50	5.40	0.00311688	±2.5	PASS
Band4	3MHz	QPSK	20175	1RB#0	NV	60	-5.31	-0.00306494	±2.5	PASS
Band4	3MHz	QPSK	20175	1RB#0	NV	70	-4.53	-0.00261472	±2.5	PASS
Band4	3MHz	QPSK	20175	1RB#0	NV	80	5.01	0.00289177	±2.5	PASS
Band4	5MHz	QPSK	20175	1RB#0	NV	-40	3.59	0.00207215	±2.5	PASS
Band4	5MHz	QPSK	20175	1RB#0	NV	-30	4.91	0.002834055	±2.5	PASS
Band4	5MHz	QPSK	20175	1RB#0	NV	-20	4.89	0.002822511	±2.5	PASS
Band4	5MHz	QPSK	20175	1RB#0	NV	-10	3.46	0.001997114	±2.5	PASS
Band4	5MHz	QPSK	20175	1RB#0	NV	0	3.38	0.001950938	±2.5	PASS
Band4	5MHz	QPSK	20175	1RB#0	NV	10	3.99	0.00230303	±2.5	PASS
Band4	5MHz	QPSK	20175	1RB#0	NV	20	-4.49	-0.00259163	±2.5	PASS
Band4	5MHz	QPSK	20175	1RB#0	NV	30	5.31	0.003064935	±2.5	PASS
Band4	5MHz	QPSK	20175	1RB#0	NV	40	3.97	0.002291486	±2.5	PASS
Band4	5MHz	QPSK	20175	1RB#0	NV	50	5.97	0.003445887	±2.5	PASS
Band4	5MHz	QPSK	20175	1RB#0	NV	60	-3.76	-0.00217027	±2.5	PASS
Band4	5MHz	QPSK	20175	1RB#0	NV	70	4.26	0.002458874	±2.5	PASS
Band4	5MHz	QPSK	20175	1RB#0	NV	80	3.80	0.002193362	±2.5	PASS
Band4	10MHz	QPSK	20175	1RB#0	NV	-40	-3.27	-0.00188745	±2.5	PASS
Band4	10MHz	QPSK	20175	1RB#0	NV	-30	5.99	0.003457431	±2.5	PASS
Band4	10MHz	QPSK	20175	1RB#0	NV	-20	-4.51	-0.00260317	±2.5	PASS



Band4	10MHz	QPSK	20175	6RB#0	NV	-10	4.01	0.002314574	±2.5	PASS
Band4	10MHz	QPSK	20175	6RB#0	NV	0	3.65	0.002106782	±2.5	PASS
Band4	10MHz	QPSK	20175	6RB#0	NV	10	4.74	0.002735931	±2.5	PASS
Band4	10MHz	QPSK	20175	6RB#0	NV	20	-6.68	-0.0038557	±2.5	PASS
Band4	10MHz	QPSK	20175	6RB#0	NV	30	6.68	0.0038557	±2.5	PASS
Band4	10MHz	QPSK	20175	6RB#0	NV	40	5.48	0.003163059	±2.5	PASS
Band4	10MHz	QPSK	20175	6RB#0	NV	50	-6.82	-0.00393651	±2.5	PASS
Band4	10MHz	QPSK	20175	6RB#0	NV	60	6.85	0.003953824	±2.5	PASS
Band4	10MHz	QPSK	20175	6RB#0	NV	70	6.29	0.003630592	±2.5	PASS
Band4	10MHz	QPSK	20175	6RB#0	NV	80	3.67	0.002118326	±2.5	PASS
Band4	15MHz	QPSK	20175	6RB#0	NV	-40	-3.82	-0.00220491	±2.5	PASS
Band4	15MHz	QPSK	20175	6RB#0	NV	-30	6.70	0.003867244	±2.5	PASS
Band4	15MHz	QPSK	20175	15RB#0	NV	-20	4.27	0.002464646	±2.5	PASS
Band4	15MHz	QPSK	20175	15RB#0	NV	-10	4.65	0.002683983	±2.5	PASS
Band4	15MHz	QPSK	20175	15RB#0	NV	0	3.93	0.002268398	±2.5	PASS
Band4	15MHz	QPSK	20175	15RB#0	NV	10	-5.68	-0.00327845	±2.5	PASS
Band4	15MHz	QPSK	20175	15RB#0	NV	20	6.55	0.003780664	±2.5	PASS
Band4	15MHz	QPSK	20175	15RB#0	NV	30	3.31	0.001910534	±2.5	PASS
Band4	15MHz	QPSK	20175	15RB#0	NV	40	-6.36	-0.003671	±2.5	PASS
Band4	15MHz	QPSK	20175	15RB#0	NV	50	-6.41	-0.00369986	±2.5	PASS
Band4	15MHz	QPSK	20175	15RB#0	NV	60	4.03	0.002326118	±2.5	PASS
Band4	15MHz	QPSK	20175	15RB#0	NV	70	6.28	0.00362482	±2.5	PASS
Band4	15MHz	QPSK	20175	15RB#0	NV	80	3.72	0.002147186	±2.5	PASS
Band4	20MHz	QPSK	20175	15RB#0	NV	-40	4.82	0.002782107	±2.5	PASS
Band4	20MHz	QPSK	20175	15RB#0	NV	-30	4.03	0.002326118	±2.5	PASS
Band4	20MHz	QPSK	20175	15RB#0	NV	-20	4.08	0.002354978	±2.5	PASS
Band4	20MHz	QPSK	20175	15RB#0	NV	-10	5.73	0.003307359	±2.5	PASS
Band4	20MHz	QPSK	20175	15RB#0	NV	0	3.00	0.001731602	±2.5	PASS
Band4	20MHz	QPSK	20175	15RB#0	NV	10	-6.61	-0.0038153	±2.5	PASS
Band4	20MHz	QPSK	20175	15RB#0	NV	20	6.65	0.003838384	±2.5	PASS
Band4	20MHz	QPSK	20385	15RB#0	NV	30	4.15	0.002395382	±2.5	PASS
Band4	20MHz	QPSK	20385	15RB#0	NV	40	3.30	0.001904762	±2.5	PASS
Band4	20MHz	QPSK	20385	15RB#0	NV	50	6.03	0.003480519	±2.5	PASS
Band4	20MHz	QPSK	20385	15RB#0	NV	60	4.20	0.002424242	±2.5	PASS
Band4	20MHz	QPSK	20385	15RB#0	NV	70	5.87	0.003388167	±2.5	PASS
Band4	20MHz	QPSK	20385	15RB#0	NV	80	4.90	0.002828283	±2.5	PASS

END