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Appendix B.4

LTE Band 4



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Effective (Isotropic) Radiated Power Output Data

Test Result

Ant13:

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band4	1.4MHz	QPSK	19957	1RB#0	23.45	23.24	30	PASS
Band4	1.4MHz	QPSK	19957	1RB#2	23.43	23.22	30	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	23.27	23.06	30	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	22.42	22.21	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	23.33	23.12	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	23.31	23.1	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	23.28	23.07	30	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	22.43	22.22	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	23.02	22.81	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	22.98	22.77	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	23.11	22.9	30	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	22.12	21.91	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	22.78	22.57	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	22.78	22.57	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	22.76	22.55	30	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	21.56	21.35	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	22.51	22.3	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	22.71	22.5	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	22.79	22.58	30	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	21.57	21.36	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	22.34	22.13	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	22.52	22.31	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	22.51	22.3	30	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	21.14	20.93	30	PASS
Band4	1.4MHz	64QAM	19957	1RB#0	22.07	21.86	30	PASS
Band4	1.4MHz	64QAM	19957	1RB#2	22.15	21.94	30	PASS
Band4	1.4MHz	64QAM	19957	1RB#5	22.14	21.93	30	PASS
Band4	1.4MHz	64QAM	19957	6RB#0	20.92	20.71	30	PASS
Band4	1.4MHz	64QAM	20175	1RB#0	22.2	21.99	30	PASS
Band4	1.4MHz	64QAM	20175	1RB#2	22.23	22.02	30	PASS



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Band4	1.4MHz	64QAM	20175	1RB#5	22.14	21.93	30	PASS
Band4	1.4MHz	64QAM	20175	6RB#0	21.04	20.83	30	PASS
Band4	1.4MHz	64QAM	20393	1RB#0	22.15	21.94	30	PASS
Band4	1.4MHz	64QAM	20393	1RB#2	22.1	21.89	30	PASS
Band4	1.4MHz	64QAM	20393	1RB#5	22.12	21.91	30	PASS
Band4	1.4MHz	64QAM	20393	6RB#0	20.75	20.54	30	PASS
Band4	3MHz	QPSK	19965	1RB#0	23.44	23.23	30	PASS
Band4	3MHz	QPSK	19965	1RB#8	23.42	23.21	30	PASS
Band4	3MHz	QPSK	19965	1RB#14	23.35	23.14	30	PASS
Band4	3MHz	QPSK	19965	15RB#0	22.58	22.37	30	PASS
Band4	3MHz	QPSK	20175	1RB#0	23.41	23.2	30	PASS
Band4	3MHz	QPSK	20175	1RB#8	23.35	23.14	30	PASS
Band4	3MHz	QPSK	20175	1RB#14	23.3	23.09	30	PASS
Band4	3MHz	QPSK	20175	15RB#0	22.46	22.25	30	PASS
Band4	3MHz	QPSK	20385	1RB#0	23.2	22.99	30	PASS
Band4	3MHz	QPSK	20385	1RB#8	23.16	22.95	30	PASS
Band4	3MHz	QPSK	20385	1RB#14	23.11	22.9	30	PASS
Band4	3MHz	QPSK	20385	15RB#0	22.17	21.96	30	PASS
Band4	3MHz	16QAM	19965	1RB#0	22.72	22.51	30	PASS
Band4	3MHz	16QAM	19965	1RB#8	23.04	22.83	30	PASS
Band4	3MHz	16QAM	19965	1RB#14	22.59	22.38	30	PASS
Band4	3MHz	16QAM	19965	15RB#0	21.56	21.35	30	PASS
Band4	3MHz	16QAM	20175	1RB#0	22.67	22.46	30	PASS
Band4	3MHz	16QAM	20175	1RB#8	22.63	22.42	30	PASS
Band4	3MHz	16QAM	20175	1RB#14	22.79	22.58	30	PASS
Band4	3MHz	16QAM	20175	15RB#0	21.44	21.23	30	PASS
Band4	3MHz	16QAM	20385	1RB#0	22.79	22.58	30	PASS
Band4	3MHz	16QAM	20385	1RB#8	22.67	22.46	30	PASS
Band4	3MHz	16QAM	20385	1RB#14	22.57	22.36	30	PASS
Band4	3MHz	16QAM	20385	15RB#0	21.32	21.11	30	PASS
Band4	3MHz	64QAM	19965	1RB#0	22.27	22.06	30	PASS
Band4	3MHz	64QAM	19965	1RB#8	22.24	22.03	30	PASS
Band4	3MHz	64QAM	19965	1RB#14	22.12	21.91	30	PASS
Band4	3MHz	64QAM	19965	15RB#0	20.98	20.77	30	PASS
Band4	3MHz	64QAM	20175	1RB#0	22.26	22.05	30	PASS
Band4	3MHz	64QAM	20175	1RB#8	22.17	21.96	30	PASS
Band4	3MHz	64QAM	20175	1RB#14	22.19	21.98	30	PASS
Band4	3MHz	64QAM	20175	15RB#0	21.09	20.88	30	PASS



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Band4	3MHz	64QAM	20385	1RB#0	22.25	22.04	30	PASS
Band4	3MHz	64QAM	20385	1RB#8	21.97	21.76	30	PASS
Band4	3MHz	64QAM	20385	1RB#14	22.13	21.92	30	PASS
Band4	3MHz	64QAM	20385	15RB#0	20.94	20.73	30	PASS
Band4	5MHz	QPSK	19975	1RB#0	23.7	23.49	30	PASS
Band4	5MHz	QPSK	19975	1RB#12	23.46	23.25	30	PASS
Band4	5MHz	QPSK	19975	1RB#24	23.45	23.24	30	PASS
Band4	5MHz	QPSK	19975	25RB#0	22.48	22.27	30	PASS
Band4	5MHz	QPSK	20175	1RB#0	23.5	23.29	30	PASS
Band4	5MHz	QPSK	20175	1RB#12	23.34	23.13	30	PASS
Band4	5MHz	QPSK	20175	1RB#24	23.38	23.17	30	PASS
Band4	5MHz	QPSK	20175	25RB#0	22.53	22.32	30	PASS
Band4	5MHz	QPSK	20375	1RB#0	23.37	23.16	30	PASS
Band4	5MHz	QPSK	20375	1RB#12	23.24	23.03	30	PASS
Band4	5MHz	QPSK	20375	1RB#24	23.14	22.93	30	PASS
Band4	5MHz	QPSK	20375	25RB#0	22.24	22.03	30	PASS
Band4	5MHz	16QAM	19975	1RB#0	22.88	22.67	30	PASS
Band4	5MHz	16QAM	19975	1RB#12	22.69	22.48	30	PASS
Band4	5MHz	16QAM	19975	1RB#24	22.65	22.44	30	PASS
Band4	5MHz	16QAM	19975	25RB#0	21.71	21.5	30	PASS
Band4	5MHz	16QAM	20175	1RB#0	22.99	22.78	30	PASS
Band4	5MHz	16QAM	20175	1RB#12	22.57	22.36	30	PASS
Band4	5MHz	16QAM	20175	1RB#24	22.9	22.69	30	PASS
Band4	5MHz	16QAM	20175	25RB#0	21.46	21.25	30	PASS
Band4	5MHz	16QAM	20375	1RB#0	22.6	22.39	30	PASS
Band4	5MHz	16QAM	20375	1RB#12	22.56	22.35	30	PASS
Band4	5MHz	16QAM	20375	1RB#24	22.65	22.44	30	PASS
Band4	5MHz	16QAM	20375	25RB#0	21.26	21.05	30	PASS
Band4	5MHz	64QAM	19975	1RB#0	22.1	21.89	30	PASS
Band4	5MHz	64QAM	19975	1RB#12	21.99	21.78	30	PASS
Band4	5MHz	64QAM	19975	1RB#24	22.08	21.87	30	PASS
Band4	5MHz	64QAM	19975	25RB#0	21.13	20.92	30	PASS
Band4	5MHz	64QAM	20175	1RB#0	22.33	22.12	30	PASS
Band4	5MHz	64QAM	20175	1RB#12	22.12	21.91	30	PASS
Band4	5MHz	64QAM	20175	1RB#24	22.29	22.08	30	PASS
Band4	5MHz	64QAM	20175	25RB#0	21.14	20.93	30	PASS
Band4	5MHz	64QAM	20375	1RB#0	22.27	22.06	30	PASS
Band4	5MHz	64QAM	20375	1RB#12	22.19	21.98	30	PASS



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Band4	5MHz	64QAM	20375	1RB#24	22.08	21.87	30	PASS
Band4	5MHz	64QAM	20375	25RB#0	21.13	20.92	30	PASS
Band4	10MHz	QPSK	20000	1RB#0	24.28	24.07	30	PASS
Band4	10MHz	QPSK	20000	1RB#24	23.87	23.66	30	PASS
Band4	10MHz	QPSK	20000	1RB#49	24.41	24.2	30	PASS
Band4	10MHz	QPSK	20000	50RB#0	23.03	22.82	30	PASS
Band4	10MHz	QPSK	20175	1RB#0	24.22	24.01	30	PASS
Band4	10MHz	QPSK	20175	1RB#24	24.16	23.95	30	PASS
Band4	10MHz	QPSK	20175	1RB#49	24.32	24.11	30	PASS
Band4	10MHz	QPSK	20175	50RB#0	23.14	22.93	30	PASS
Band4	10MHz	QPSK	20350	1RB#0	24.31	24.1	30	PASS
Band4	10MHz	QPSK	20350	1RB#24	23.98	23.77	30	PASS
Band4	10MHz	QPSK	20350	1RB#49	24.35	24.14	30	PASS
Band4	10MHz	QPSK	20350	50RB#0	23	22.79	30	PASS
Band4	10MHz	16QAM	20000	1RB#0	23.25	23.04	30	PASS
Band4	10MHz	16QAM	20000	1RB#24	23.16	22.95	30	PASS
Band4	10MHz	16QAM	20000	1RB#49	23.55	23.34	30	PASS
Band4	10MHz	16QAM	20000	50RB#0	22.06	21.85	30	PASS
Band4	10MHz	16QAM	20175	1RB#0	23.69	23.48	30	PASS
Band4	10MHz	16QAM	20175	1RB#24	23.4	23.19	30	PASS
Band4	10MHz	16QAM	20175	1RB#49	23.45	23.24	30	PASS
Band4	10MHz	16QAM	20175	50RB#0	22.17	21.96	30	PASS
Band4	10MHz	16QAM	20350	1RB#0	23.49	23.28	30	PASS
Band4	10MHz	16QAM	20350	1RB#24	23.34	23.13	30	PASS
Band4	10MHz	16QAM	20350	1RB#49	23.36	23.15	30	PASS
Band4	10MHz	16QAM	20350	50RB#0	22.04	21.83	30	PASS
Band4	10MHz	64QAM	20000	1RB#0	22.34	22.13	30	PASS
Band4	10MHz	64QAM	20000	1RB#24	22.29	22.08	30	PASS
Band4	10MHz	64QAM	20000	1RB#49	22.43	22.22	30	PASS
Band4	10MHz	64QAM	20000	50RB#0	21.05	20.84	30	PASS
Band4	10MHz	64QAM	20175	1RB#0	22.58	22.37	30	PASS
Band4	10MHz	64QAM	20175	1RB#24	22.21	22	30	PASS
Band4	10MHz	64QAM	20175	1RB#49	22.56	22.35	30	PASS
Band4	10MHz	64QAM	20175	50RB#0	21.15	20.94	30	PASS
Band4	10MHz	64QAM	20350	1RB#0	22.32	22.11	30	PASS
Band4	10MHz	64QAM	20350	1RB#24	22.11	21.9	30	PASS
Band4	10MHz	64QAM	20350	1RB#49	22.34	22.13	30	PASS
Band4	10MHz	64QAM	20350	50RB#0	21.04	20.83	30	PASS



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Band4	15MHz	QPSK	20025	1RB#0	24.31	24.1	30	PASS
Band4	15MHz	QPSK	20025	1RB#38	23.95	23.74	30	PASS
Band4	15MHz	QPSK	20025	1RB#74	24.39	24.18	30	PASS
Band4	15MHz	QPSK	20025	75RB#0	23.13	22.92	30	PASS
Band4	15MHz	QPSK	20175	1RB#0	24.32	24.11	30	PASS
Band4	15MHz	QPSK	20175	1RB#38	24.2	23.99	30	PASS
Band4	15MHz	QPSK	20175	1RB#74	24.44	24.23	30	PASS
Band4	15MHz	QPSK	20175	75RB#0	23.41	23.2	30	PASS
Band4	15MHz	QPSK	20325	1RB#0	23.94	23.73	30	PASS
Band4	15MHz	QPSK	20325	1RB#38	24.09	23.88	30	PASS
Band4	15MHz	QPSK	20325	1RB#74	24.42	24.21	30	PASS
Band4	15MHz	QPSK	20325	75RB#0	23.15	22.94	30	PASS
Band4	15MHz	16QAM	20025	1RB#0	23.66	23.45	30	PASS
Band4	15MHz	16QAM	20025	1RB#38	23.24	23.03	30	PASS
Band4	15MHz	16QAM	20025	1RB#74	23.9	23.69	30	PASS
Band4	15MHz	16QAM	20025	75RB#0	22.11	21.9	30	PASS
Band4	15MHz	16QAM	20175	1RB#0	23.58	23.37	30	PASS
Band4	15MHz	16QAM	20175	1RB#38	23.54	23.33	30	PASS
Band4	15MHz	16QAM	20175	1RB#74	23.68	23.47	30	PASS
Band4	15MHz	16QAM	20175	75RB#0	22.25	22.04	30	PASS
Band4	15MHz	16QAM	20325	1RB#0	23.54	23.33	30	PASS
Band4	15MHz	16QAM	20325	1RB#38	23.32	23.11	30	PASS
Band4	15MHz	16QAM	20325	1RB#74	23.65	23.44	30	PASS
Band4	15MHz	16QAM	20325	75RB#0	22.25	22.04	30	PASS
Band4	15MHz	64QAM	20025	1RB#0	22.63	22.42	30	PASS
Band4	15MHz	64QAM	20025	1RB#38	22.21	22	30	PASS
Band4	15MHz	64QAM	20025	1RB#74	22.59	22.38	30	PASS
Band4	15MHz	64QAM	20025	75RB#0	21.2	20.99	30	PASS
Band4	15MHz	64QAM	20175	1RB#0	22.41	22.2	30	PASS
Band4	15MHz	64QAM	20175	1RB#38	22.32	22.11	30	PASS
Band4	15MHz	64QAM	20175	1RB#74	22.76	22.55	30	PASS
Band4	15MHz	64QAM	20175	75RB#0	21.24	21.03	30	PASS
Band4	15MHz	64QAM	20325	1RB#0	22.65	22.44	30	PASS
Band4	15MHz	64QAM	20325	1RB#38	22.35	22.14	30	PASS
Band4	15MHz	64QAM	20325	1RB#74	22.58	22.37	30	PASS
Band4	15MHz	64QAM	20325	75RB#0	21.16	20.95	30	PASS
Band4	20MHz	QPSK	20050	1RB#0	24.06	23.85	30	PASS
Band4	20MHz	QPSK	20050	1RB#49	24.1	23.89	30	PASS



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Band4	20MHz	QPSK	20050	1RB#99	24.48	24.27	30	PASS
Band4	20MHz	QPSK	20050	100RB#0	23.28	23.07	30	PASS
Band4	20MHz	QPSK	20175	1RB#0	24.06	23.85	30	PASS
Band4	20MHz	QPSK	20175	1RB#49	23.96	23.75	30	PASS
Band4	20MHz	QPSK	20175	1RB#99	24.28	24.07	30	PASS
Band4	20MHz	QPSK	20175	100RB#0	23.41	23.2	30	PASS
Band4	20MHz	QPSK	20300	1RB#0	24	23.79	30	PASS
Band4	20MHz	QPSK	20300	1RB#49	24.08	23.87	30	PASS
Band4	20MHz	QPSK	20300	1RB#99	24.24	24.03	30	PASS
Band4	20MHz	QPSK	20300	100RB#0	23.27	23.06	30	PASS
Band4	20MHz	16QAM	20050	1RB#0	23.36	23.15	30	PASS
Band4	20MHz	16QAM	20050	1RB#49	23.49	23.28	30	PASS
Band4	20MHz	16QAM	20050	1RB#99	23.52	23.31	30	PASS
Band4	20MHz	16QAM	20050	100RB#0	22.23	22.02	30	PASS
Band4	20MHz	16QAM	20175	1RB#0	23.41	23.2	30	PASS
Band4	20MHz	16QAM	20175	1RB#49	23.53	23.32	30	PASS
Band4	20MHz	16QAM	20175	1RB#99	23.6	23.39	30	PASS
Band4	20MHz	16QAM	20175	100RB#0	22.42	22.21	30	PASS
Band4	20MHz	16QAM	20300	1RB#0	23.51	23.3	30	PASS
Band4	20MHz	16QAM	20300	1RB#49	23.16	22.95	30	PASS
Band4	20MHz	16QAM	20300	1RB#99	23.51	23.3	30	PASS
Band4	20MHz	16QAM	20300	100RB#0	22.16	21.95	30	PASS
Band4	20MHz	64QAM	20050	1RB#0	22.35	22.14	30	PASS
Band4	20MHz	64QAM	20050	1RB#49	22.29	22.08	30	PASS
Band4	20MHz	64QAM	20050	1RB#99	22.54	22.33	30	PASS
Band4	20MHz	64QAM	20050	100RB#0	21.31	21.1	30	PASS
Band4	20MHz	64QAM	20175	1RB#0	22.35	22.14	30	PASS
Band4	20MHz	64QAM	20175	1RB#49	22.43	22.22	30	PASS
Band4	20MHz	64QAM	20175	1RB#99	22.75	22.54	30	PASS
Band4	20MHz	64QAM	20175	100RB#0	21.37	21.16	30	PASS
Band4	20MHz	64QAM	20300	1RB#0	22.33	22.12	30	PASS
Band4	20MHz	64QAM	20300	1RB#49	22.38	22.17	30	PASS
Band4	20MHz	64QAM	20300	1RB#99	22.35	22.14	30	PASS
Band4	20MHz	64QAM	20300	100RB#0	21.24	21.03	30	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band4	20MHz	QPSK	20050	100RB#0	4.90	13	PASS
Band4	20MHz	QPSK	20175	100RB#0	5.22	13	PASS
Band4	20MHz	QPSK	20300	100RB#0	4.78	13	PASS
Band4	20MHz	16QAM	20050	100RB#0	5.80	13	PASS
Band4	20MHz	16QAM	20175	100RB#0	5.77	13	PASS
Band4	20MHz	16QAM	20300	100RB#0	5.74	13	PASS
Band4	20MHz	64QAM	20050	100RB#0	6.23	13	PASS
Band4	20MHz	64QAM	20175	100RB#0	6.23	13	PASS
Band4	20MHz	64QAM	20300	100RB#0	6.14	13	PASS



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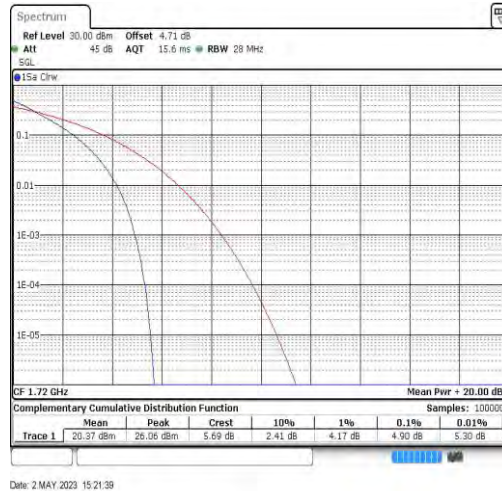
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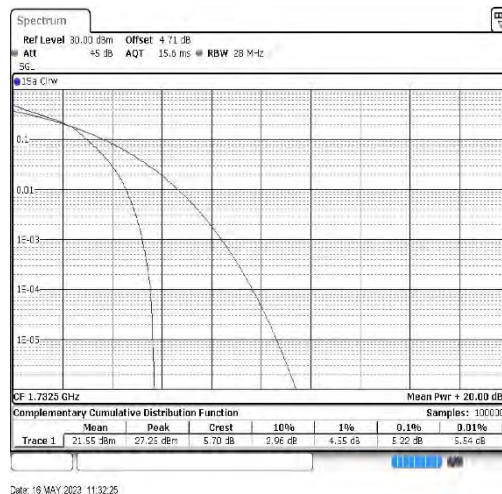
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Test Graphs



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



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

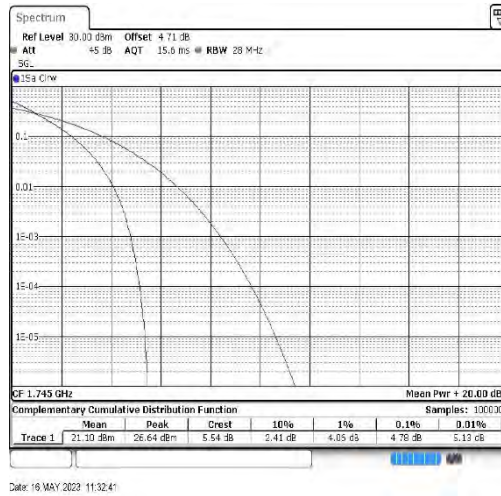




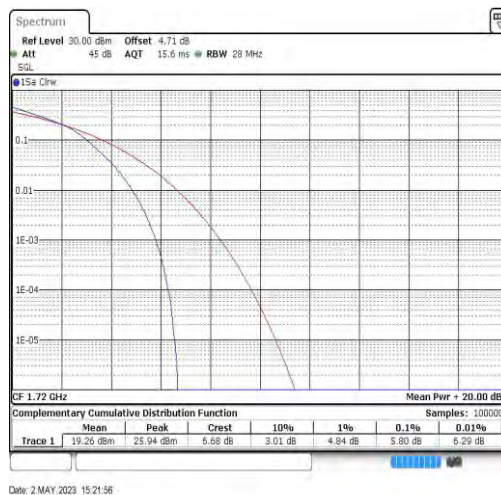
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Band4-20MHz-QPSK-20300-100RB#0



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



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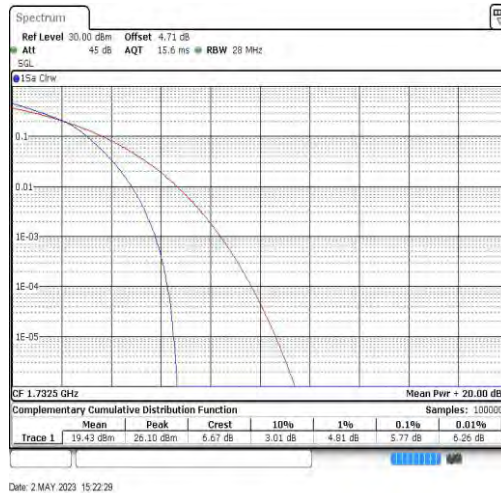
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Band4-20MHz-16QAM-20175-100RB#0



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



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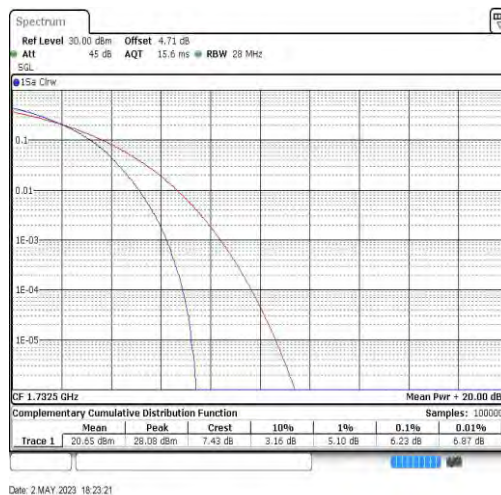
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Band4-20MHz-64QAM-20050-100RB#0



Band4-20MHz-64QAM-20175-100RB#0



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Band4-20MHz-64QAM-20300-100RB#0



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Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band4	20MHz	QPSK	20175	100RB#0	PASS	PASS
Band4	20MHz	16QAM	20175	100RB#0	PASS	PASS
Band4	20MHz	64QAM	20175	100RB#0	PASS	PASS



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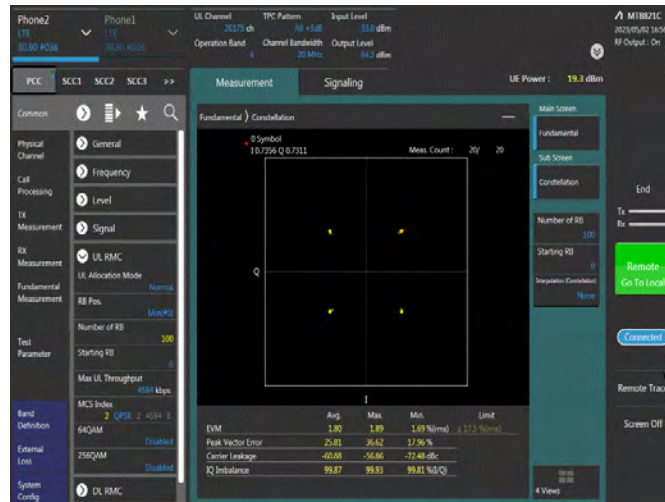
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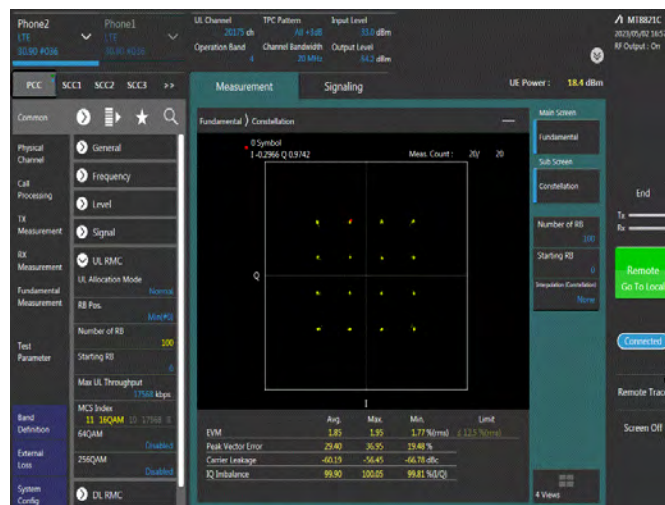
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Test Graphs



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



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



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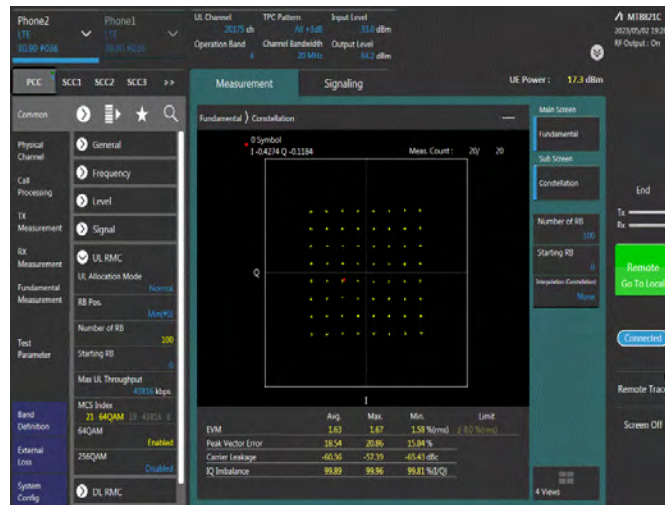
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Band4-20MHz-64QAM-20175-100RB#0



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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	1.088	1.28	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	1.085	1.28	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	1.088	1.28	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	1.097	1.30	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	1.088	1.29	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	1.097	1.30	PASS
Band4	1.4MHz	64QAM	19957	6RB#0	1.094	1.29	PASS
Band4	1.4MHz	64QAM	20175	6RB#0	1.091	1.29	PASS
Band4	1.4MHz	64QAM	20393	6RB#0	1.094	1.30	PASS
Band4	3MHz	QPSK	19965	15RB#0	2.697	2.95	PASS
Band4	3MHz	QPSK	20175	15RB#0	2.685	2.96	PASS
Band4	3MHz	QPSK	20385	15RB#0	2.691	2.96	PASS
Band4	3MHz	16QAM	19965	15RB#0	2.691	2.98	PASS
Band4	3MHz	16QAM	20175	15RB#0	2.685	2.98	PASS
Band4	3MHz	16QAM	20385	15RB#0	2.685	2.98	PASS
Band4	3MHz	64QAM	19965	15RB#0	2.697	2.94	PASS
Band4	3MHz	64QAM	20175	15RB#0	2.691	2.96	PASS
Band4	3MHz	64QAM	20385	15RB#0	2.685	2.96	PASS
Band4	5MHz	QPSK	19975	25RB#0	4.466	4.90	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.466	4.91	PASS
Band4	5MHz	QPSK	20375	25RB#0	4.466	4.87	PASS
Band4	5MHz	16QAM	19975	25RB#0	4.466	4.92	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.466	4.94	PASS
Band4	5MHz	16QAM	20375	25RB#0	4.466	4.94	PASS
Band4	5MHz	64QAM	19975	25RB#0	4.476	4.80	PASS
Band4	5MHz	64QAM	20175	25RB#0	4.476	4.92	PASS
Band4	5MHz	64QAM	20375	25RB#0	4.466	4.92	PASS
Band4	10MHz	QPSK	20000	50RB#0	8.931	9.70	PASS
Band4	10MHz	QPSK	20175	50RB#0	8.931	9.70	PASS





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Band4	10MHz	QPSK	20350	50RB#0	8.911	9.64	PASS
Band4	10MHz	16QAM	20000	50RB#0	8.911	9.68	PASS
Band4	10MHz	16QAM	20175	50RB#0	8.911	9.70	PASS
Band4	10MHz	16QAM	20350	50RB#0	8.911	9.66	PASS
Band4	10MHz	64QAM	20000	50RB#0	8.911	9.68	PASS
Band4	10MHz	64QAM	20175	50RB#0	8.911	9.68	PASS
Band4	10MHz	64QAM	20350	50RB#0	8.931	9.64	PASS
Band4	15MHz	QPSK	20025	75RB#0	13.487	14.70	PASS
Band4	15MHz	QPSK	20175	75RB#0	13.487	14.73	PASS
Band4	15MHz	QPSK	20325	75RB#0	13.457	14.76	PASS
Band4	15MHz	16QAM	20025	75RB#0	13.427	14.79	PASS
Band4	15MHz	16QAM	20175	75RB#0	13.457	14.76	PASS
Band4	15MHz	16QAM	20325	75RB#0	13.427	14.85	PASS
Band4	15MHz	64QAM	20025	75RB#0	13.427	14.67	PASS
Band4	15MHz	64QAM	20175	75RB#0	13.427	14.61	PASS
Band4	15MHz	64QAM	20325	75RB#0	13.427	14.85	PASS
Band4	20MHz	QPSK	20050	100RB#0	17.902	19.36	PASS
Band4	20MHz	QPSK	20175	100RB#0	17.902	19.56	PASS
Band4	20MHz	QPSK	20300	100RB#0	17.902	19.48	PASS
Band4	20MHz	16QAM	20050	100RB#0	17.902	19.36	PASS
Band4	20MHz	16QAM	20175	100RB#0	17.902	19.48	PASS
Band4	20MHz	16QAM	20300	100RB#0	17.902	19.44	PASS
Band4	20MHz	64QAM	20050	100RB#0	17.902	19.40	PASS
Band4	20MHz	64QAM	20175	100RB#0	17.862	19.48	PASS
Band4	20MHz	64QAM	20300	100RB#0	17.862	19.56	PASS



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Report No.: ZEWM2303000343RG02

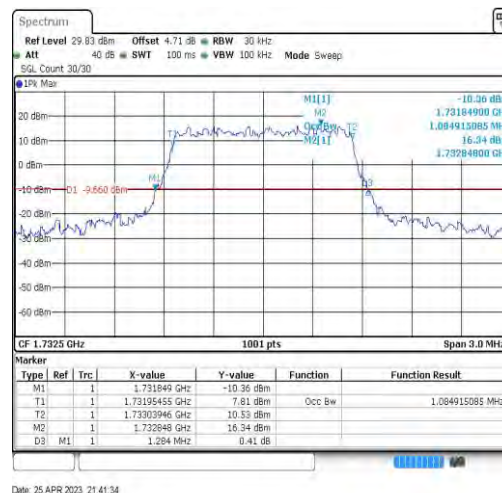
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Test Graphs



Band4-1.4MHz-QPSK-19957-6RB#0-1.088



Band4-1.4MHz-QPSK-20175-6RB#0-1.085



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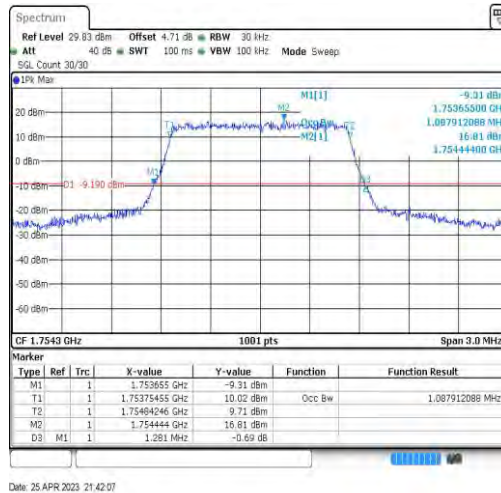
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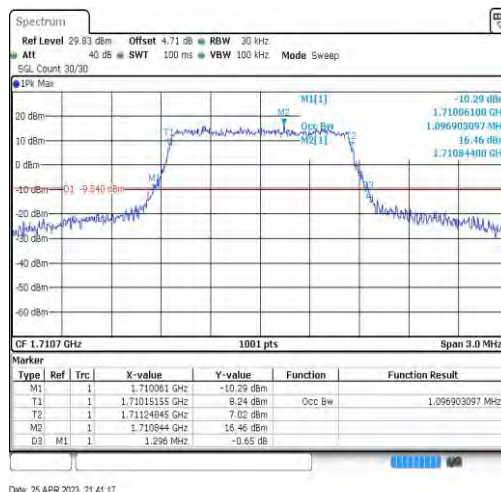
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Date: 25 APR 2023 21:42:07

Band4-1.4MHz-QPSK-20393-6RB#0-1.088



Date: 25 APR 2023 21:41:17

Band4-1.4MHz-16QAM-19957-6RB#0-1.097



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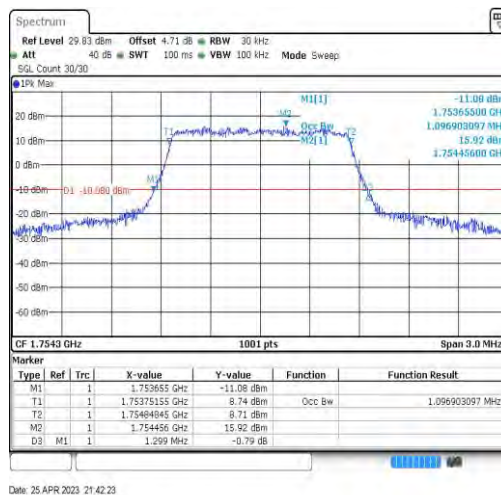
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Band4-1.4MHz-16QAM-20175-6RB#0-1.088



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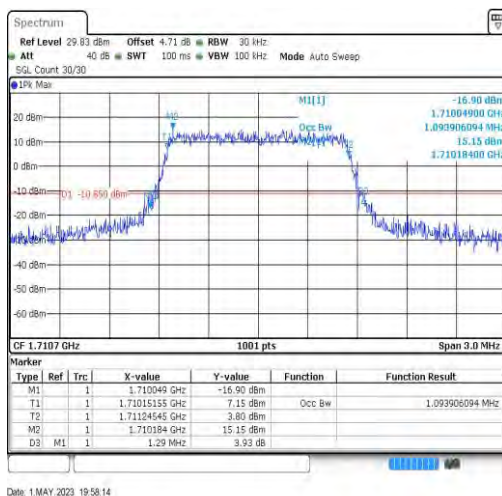
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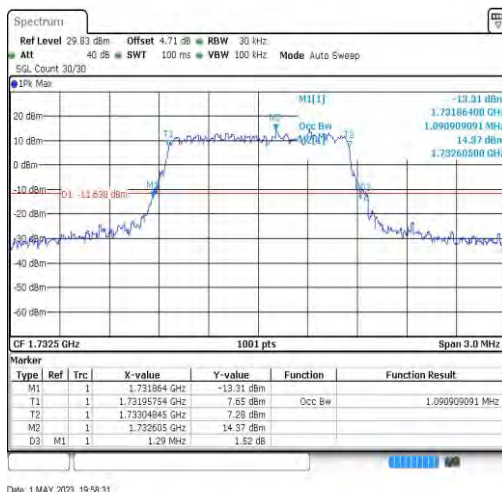
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Band4-1.4MHz-64QAM-19957-6RB#0-1.094



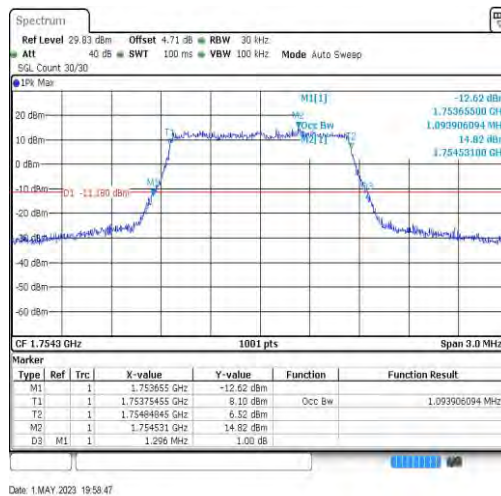
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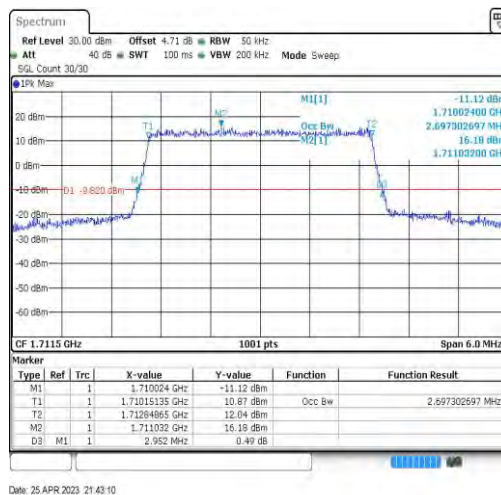
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Date: 1 MAY 2023 19:58:47

Band4-1.4MHz-64QAM-20393-6RB#0-1.094



Date: 25 APR 2023 21:43:10

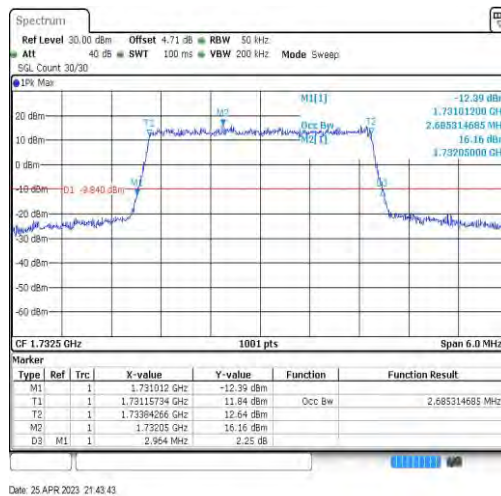
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Report No.: ZEWM2303000343RG02

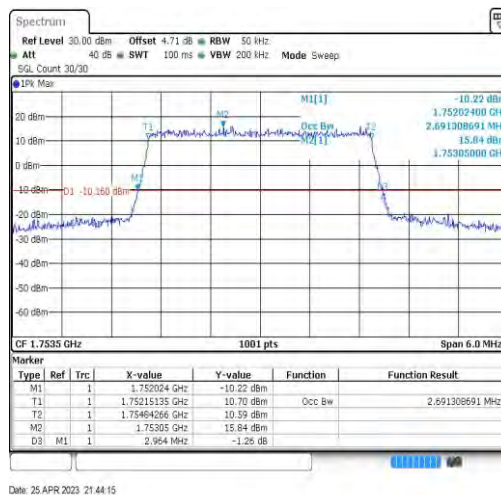
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Date: 25 APR 2023 21:43:43

Band4-3MHz-QPSK-20175-15RB#0-2.685



Date: 25 APR 2023 21:44:15

Band4-3MHz-QPSK-20385-15RB#0-2.691



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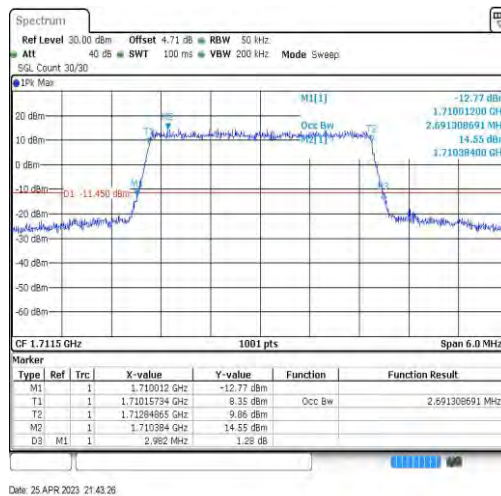
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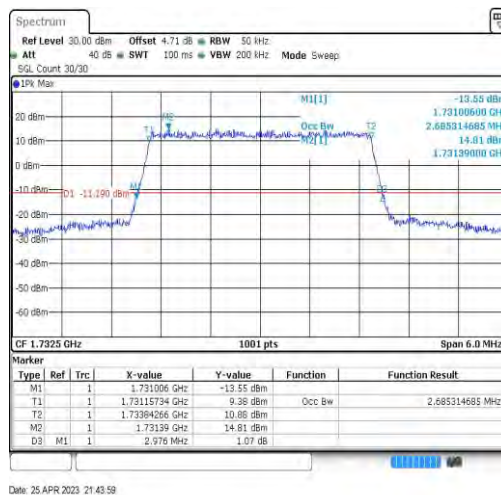
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Date: 25 APR 2023 21:43:26

Band4-3MHz-16QAM-19965-15RB#0-2.691



Date: 25 APR 2023 21:43:58

Band4-3MHz-16QAM-20175-15RB#0-2.685



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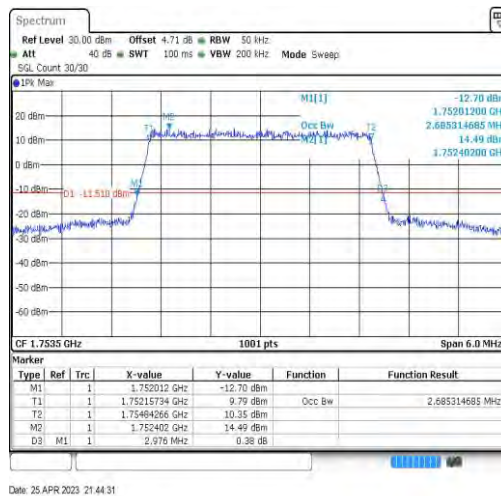
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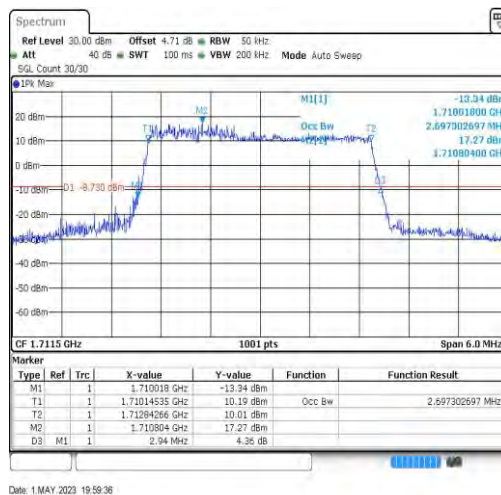
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Date: 25 APR 2023 21:44:31

Band4-3MHz-16QAM-20385-15RB#0-2.685



Date: 1 MAY 2023 19:59:36

Band4-3MHz-64QAM-19965-15RB#0-2.697

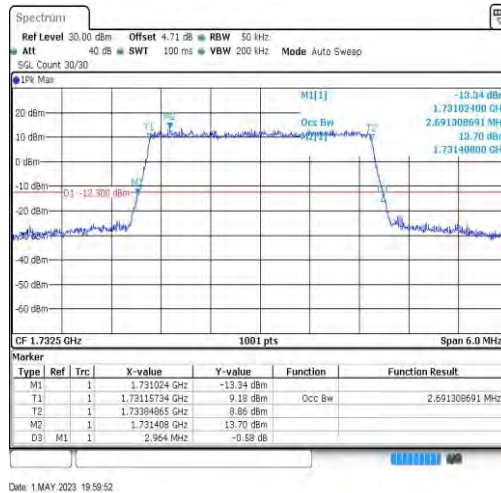


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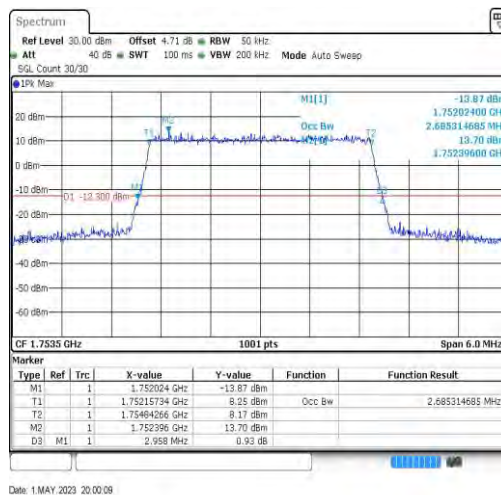
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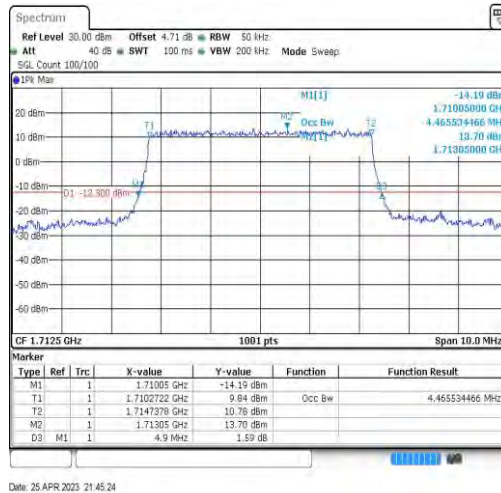
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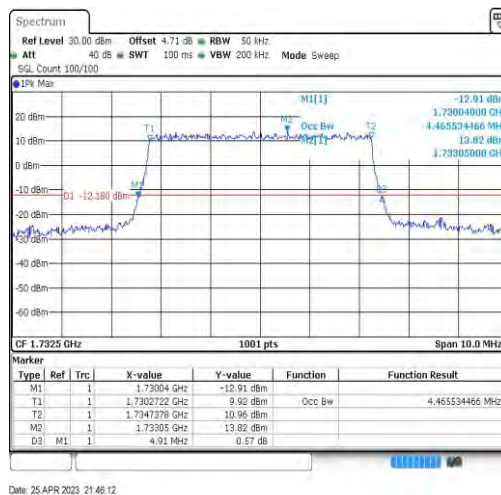
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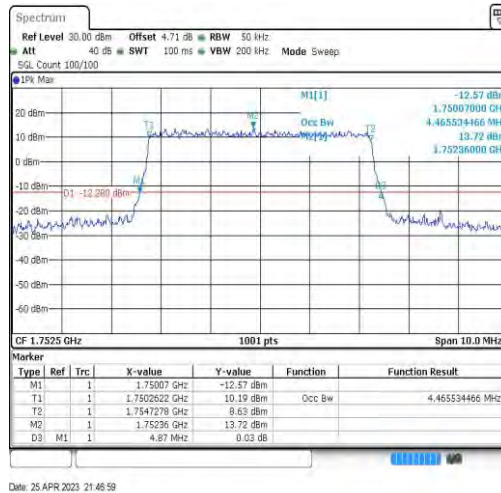


Band4-5MHz-QPSK-19975-25RB#0-4.466



Band4-5MHz-QPSK-20175-25RB#0-4.466





Band4-5MHz-QPSK-20375-25RB#0-4.466



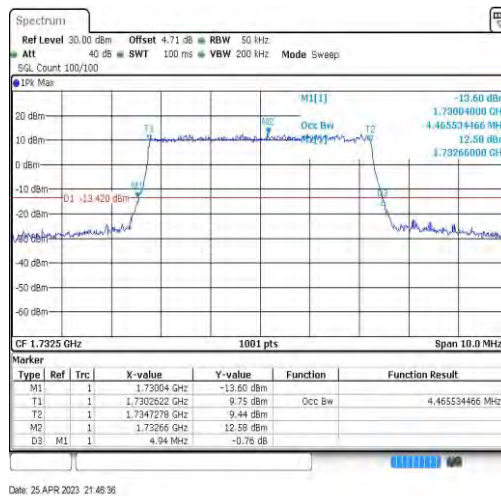
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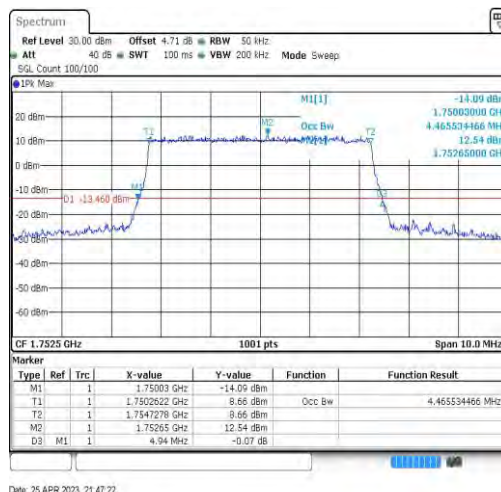
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Band4-5MHz-16QAM-20175-25RB#0-4.466



Date: 25 APR 2023 21:47:22

Band4-5MHz-16QAM-20375-25RB#0-4.466



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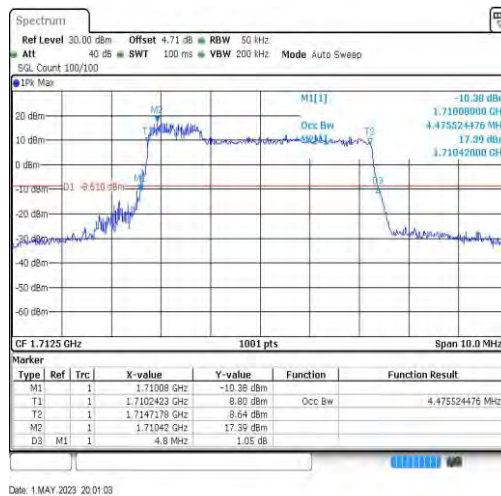
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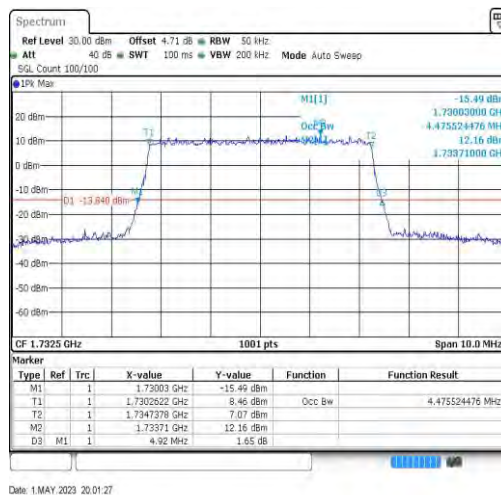
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Band4-5MHz-64QAM-19975-25RB#0-4.476



Band4-5MHz-64QAM-20175-25RB#0-4.476



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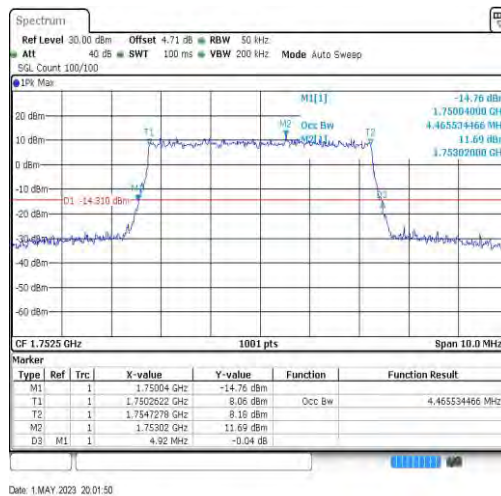
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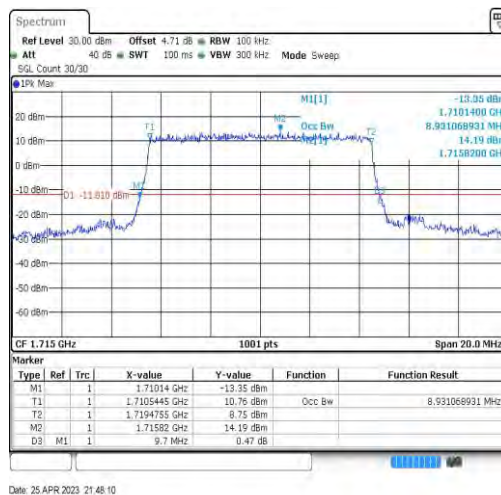
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Band4-5MHz-64QAM-20375-25RB#0-4.466



Band4-10MHz-QPSK-20000-50RB#0-8.931



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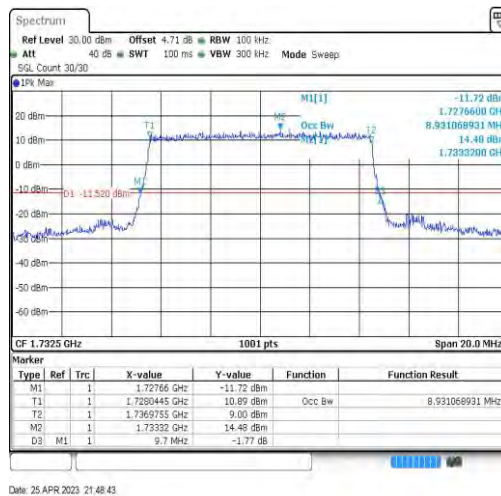
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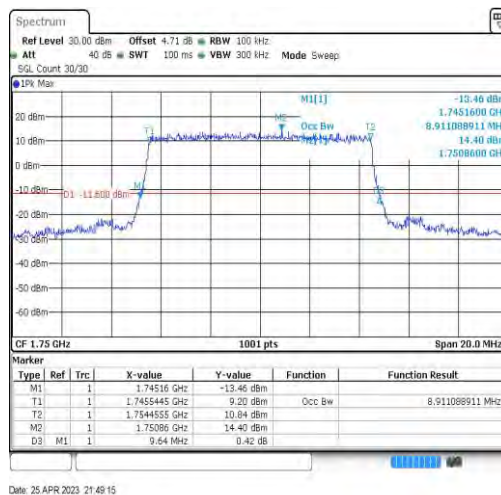
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Band4-10MHz-QPSK-20175-50RB#0-8.931



Band4-10MHz-QPSK-20350-50RB#0-8.911



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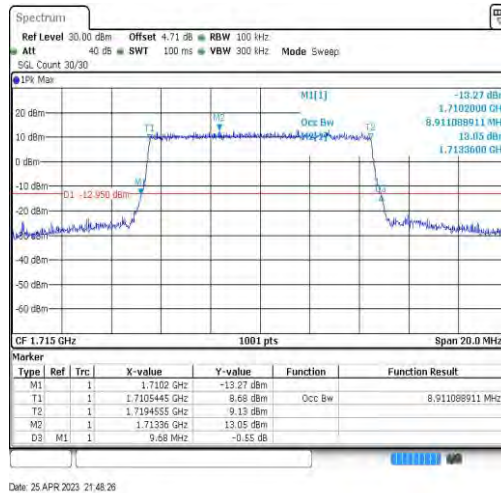
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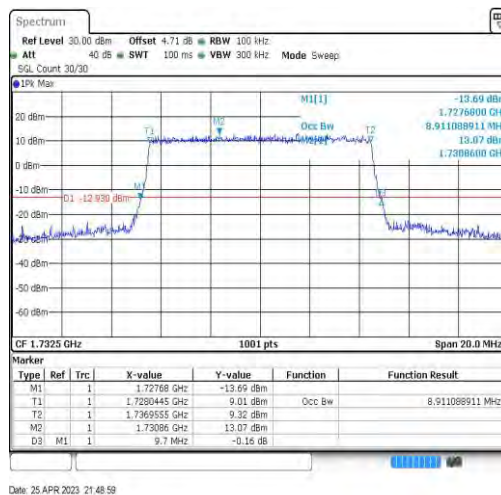
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Band4-10MHz-16QAM-20000-50RB#0-8.911



Band4-10MHz-16QAM-20175-50RB#0-8.911



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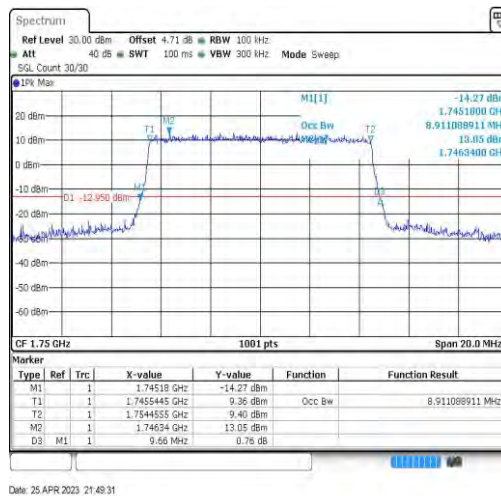
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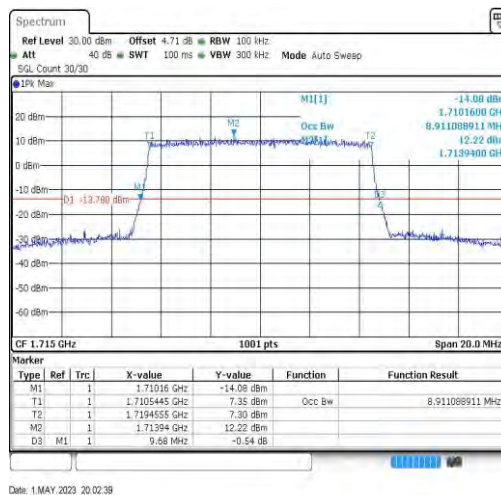
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Date: 25 APR 2023 21:49:31

Band4-10MHz-16QAM-20350-50RB#0-8.911



Date: 1 MAY 2023 20:02:39

Band4-10MHz-64QAM-20000-50RB#0-8.911

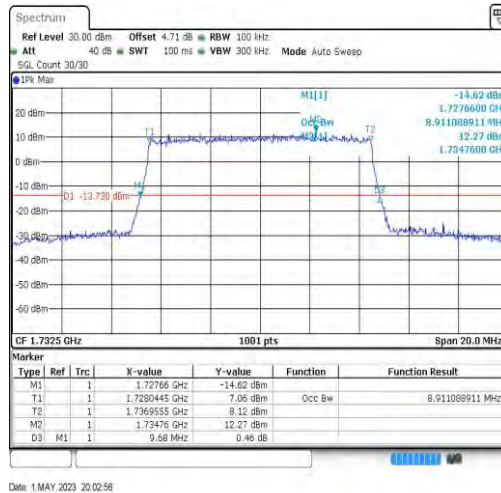


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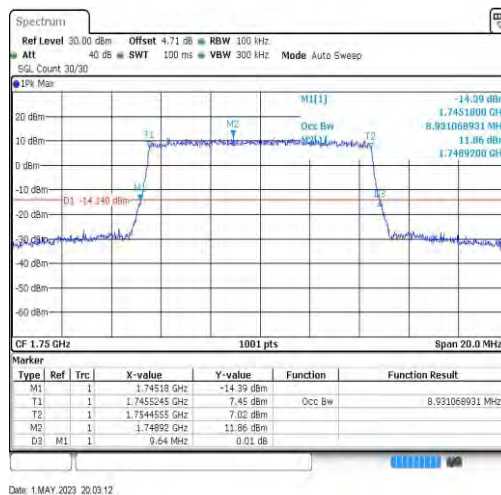
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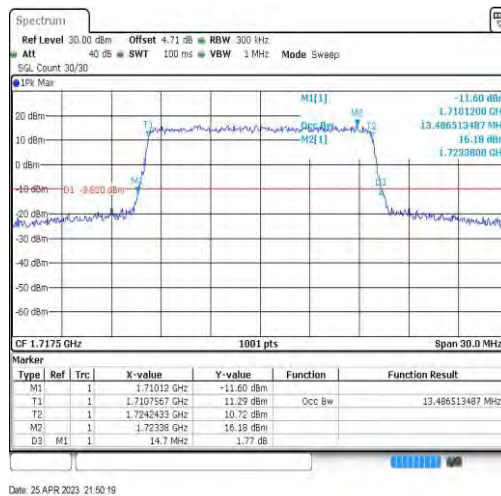


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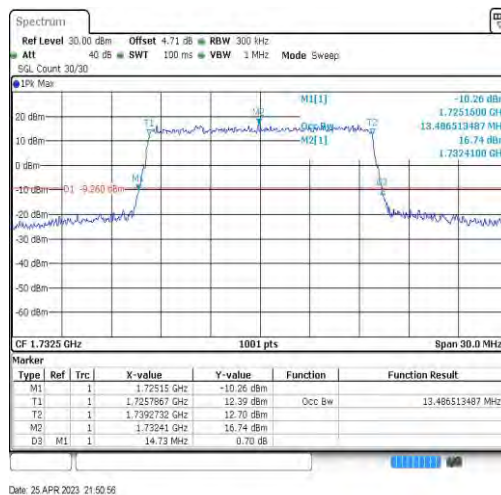


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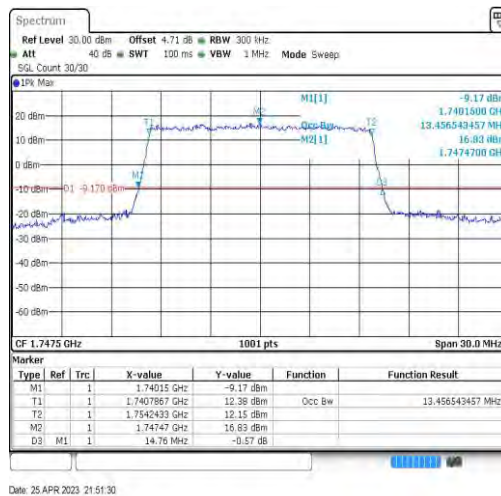
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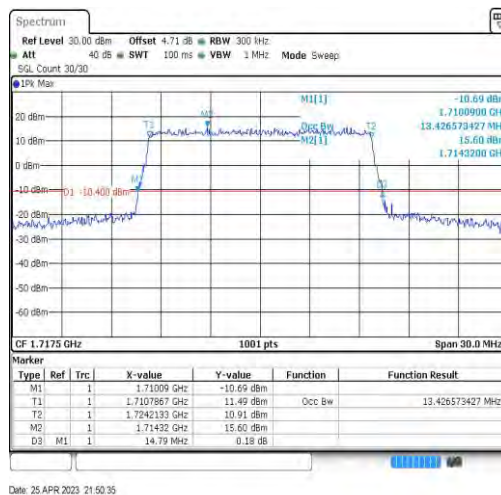
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Band4-15MHz-QPSK-20325-75RB#0-13.457



Band4-15MHz-16QAM-20025-75RB#0-13.427

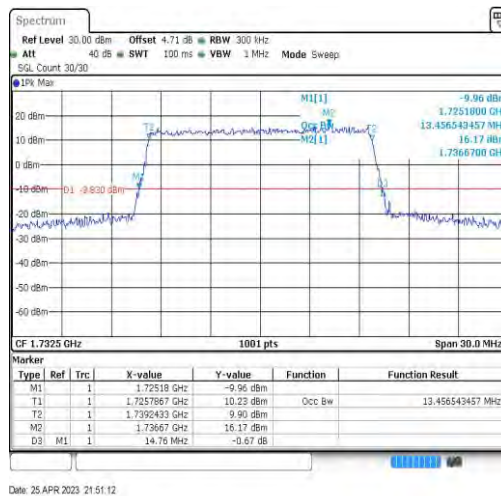


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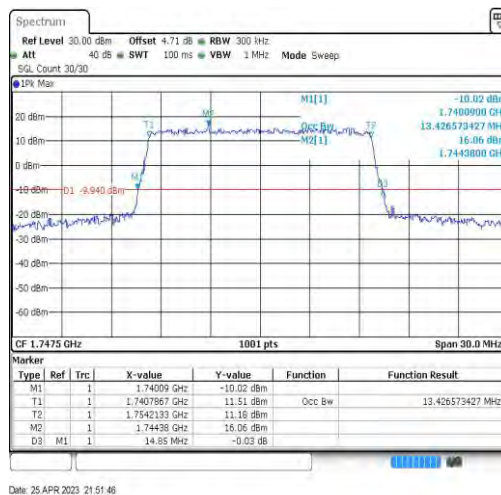
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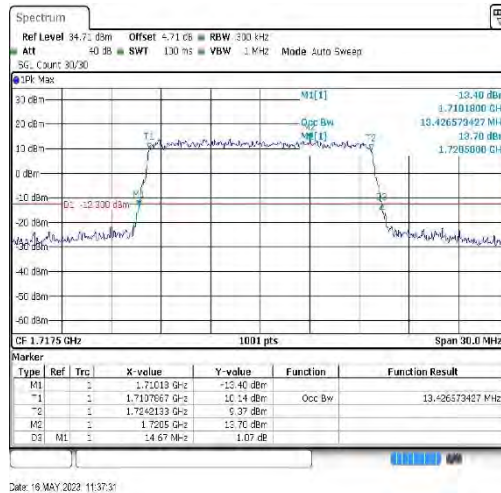
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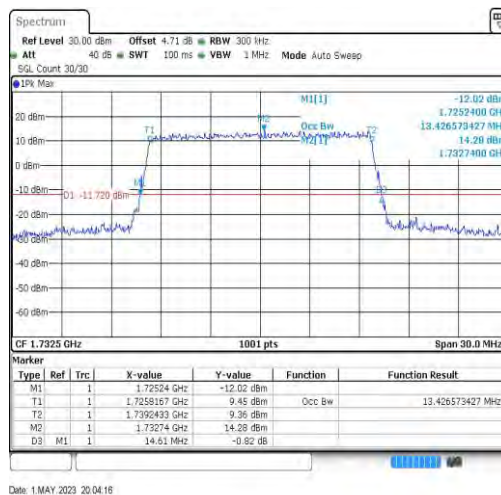
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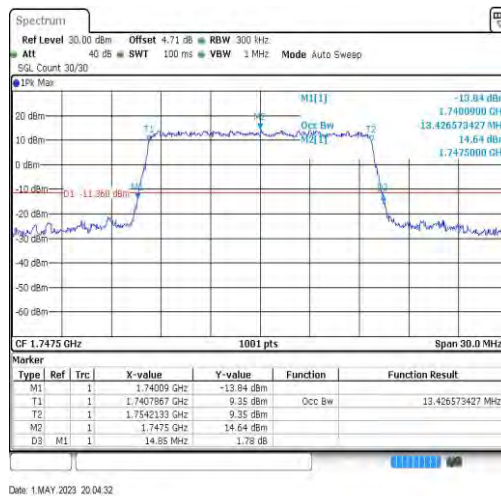
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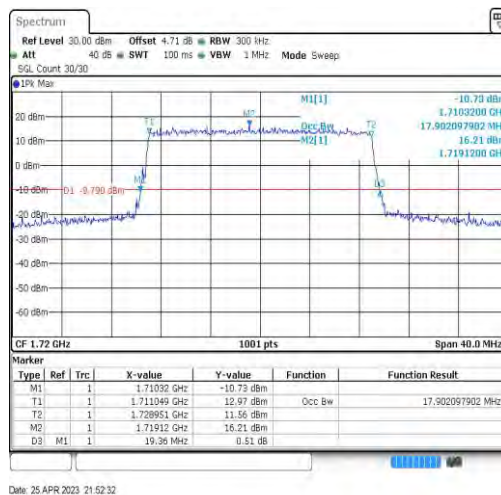
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Band4-15MHz-64QAM-20325-75RB#0-13.427



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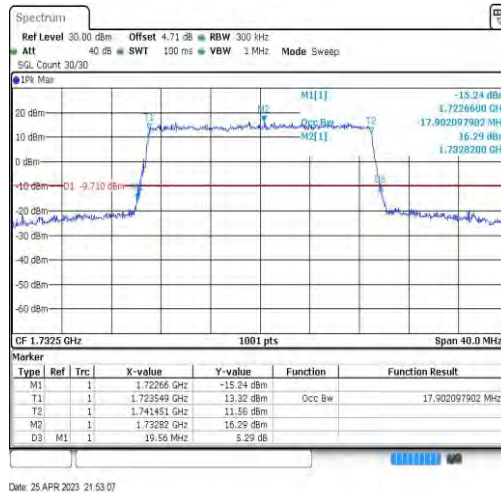
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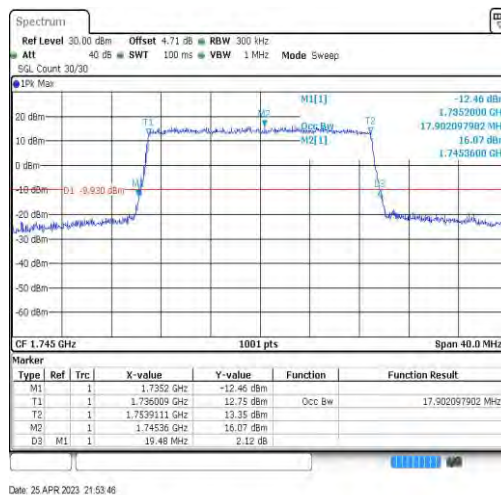
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Band4-20MHz-QPSK-20300-100RB#0-17.902

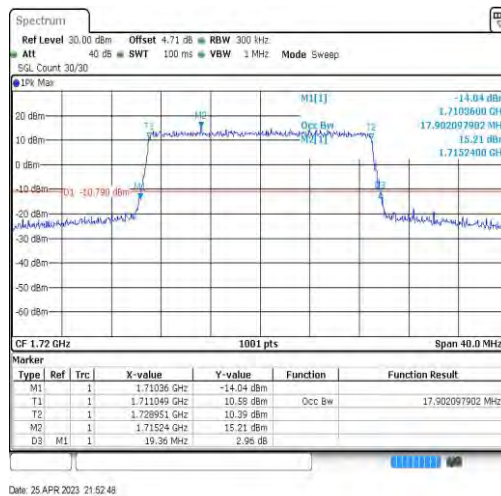


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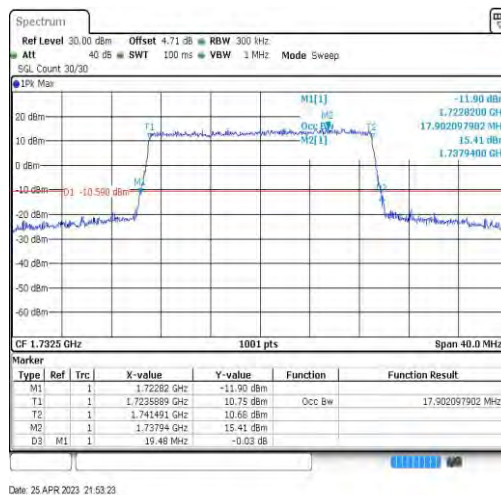
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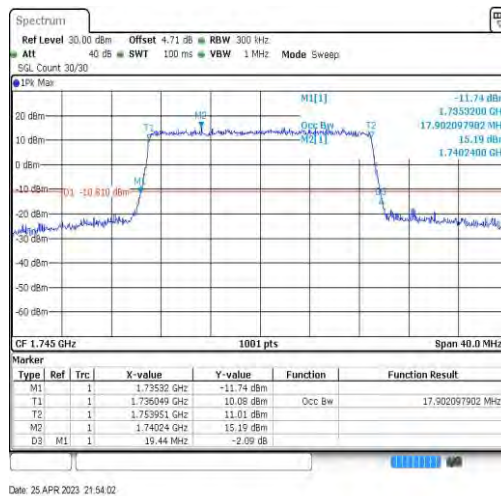
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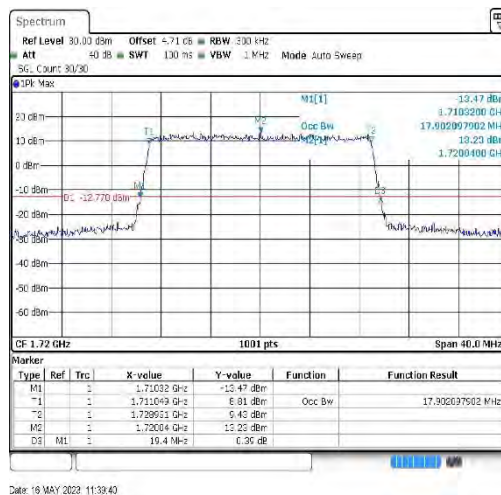
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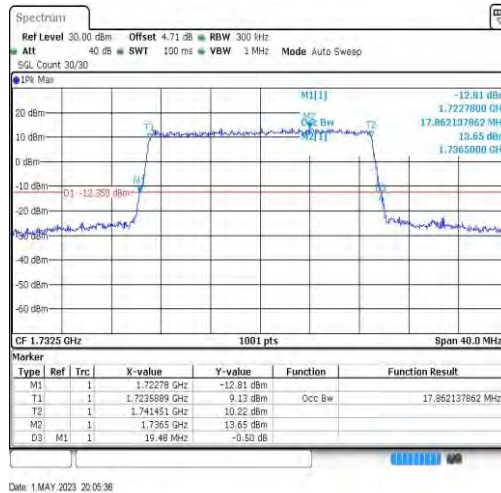


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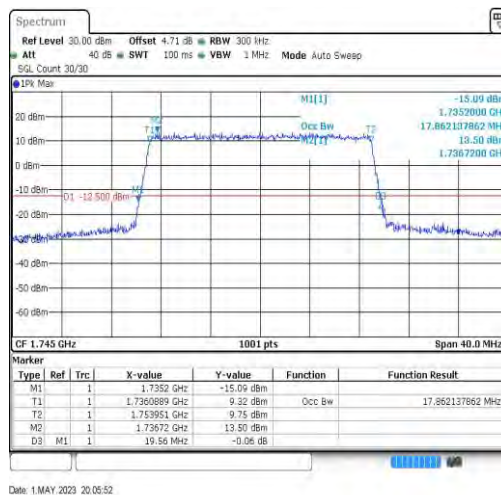
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Band4-20MHz-64QAM-20175-100RB#0-17.862

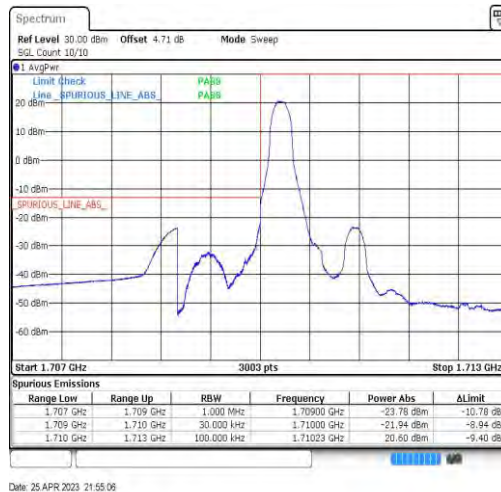


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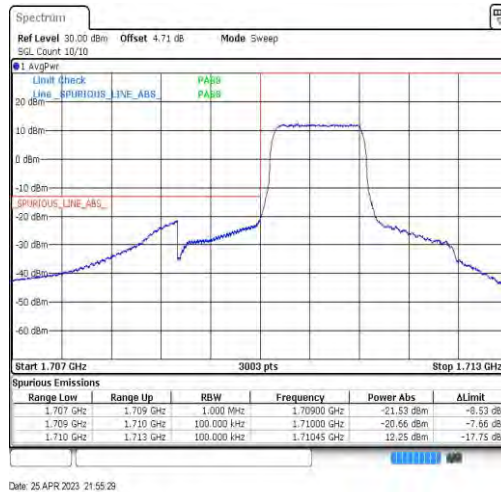


Band Edge

Test Graphs



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



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



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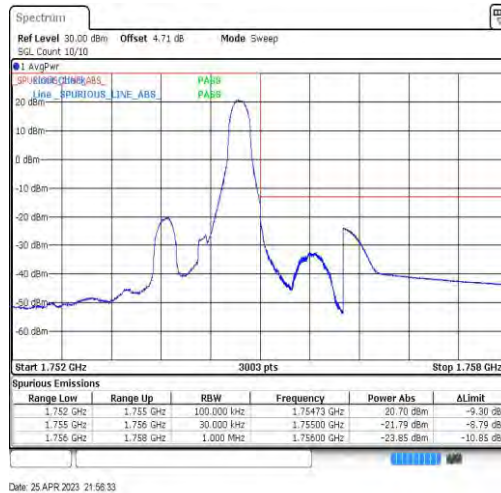
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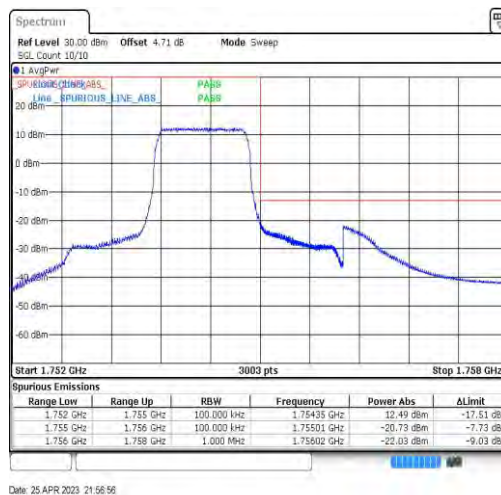
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Band4-1.4MHz-QPSK-20393-1RB#5



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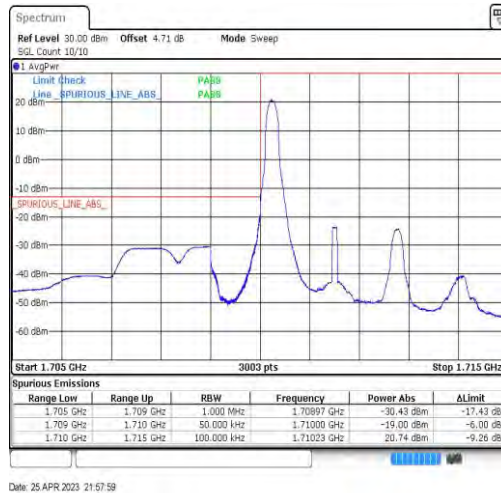


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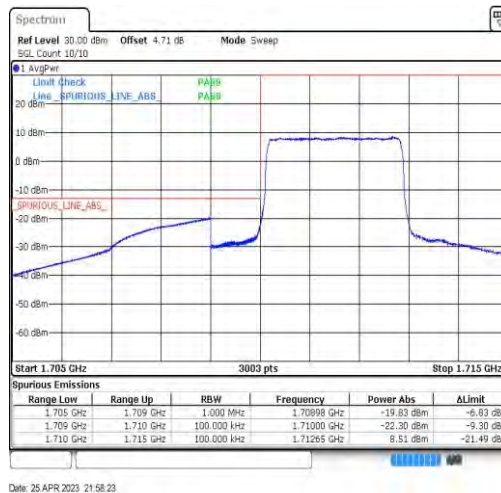
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Band4-3MHz-QPSK-19965-1RB#0



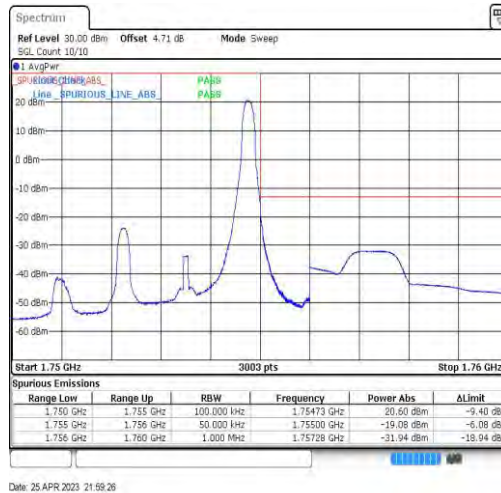
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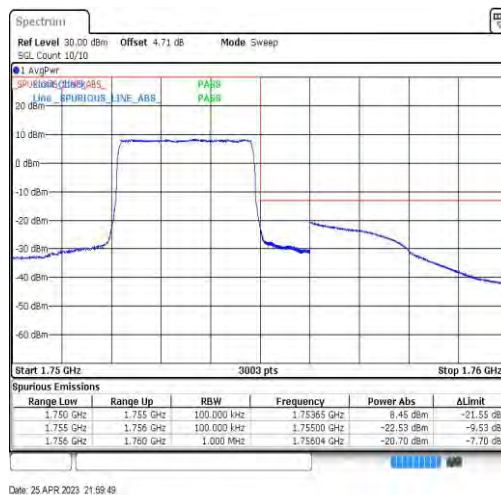
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Band4-3MHz-QPSK-20385-1RB#14



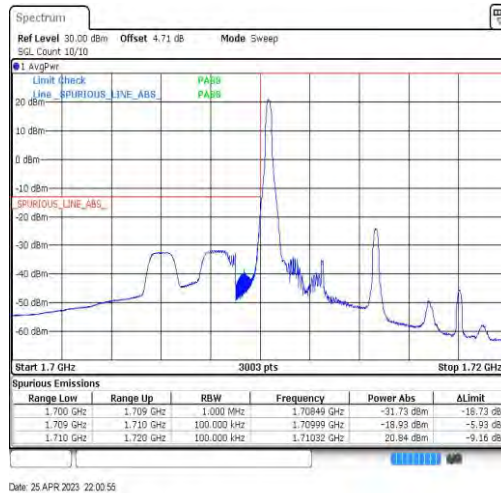
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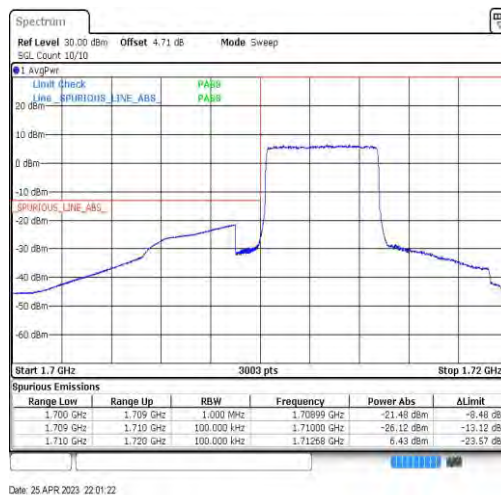
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Band4-5MHz-QPSK-19975-1RB#0



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



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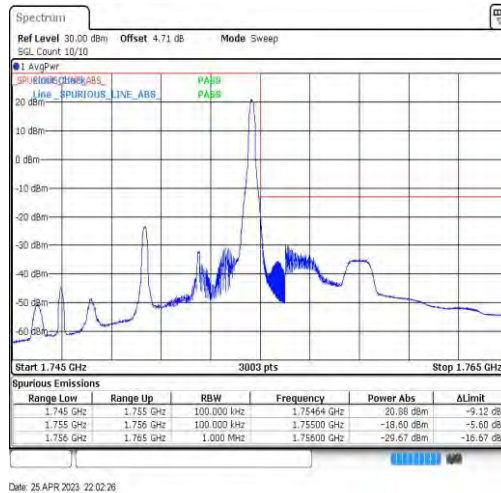
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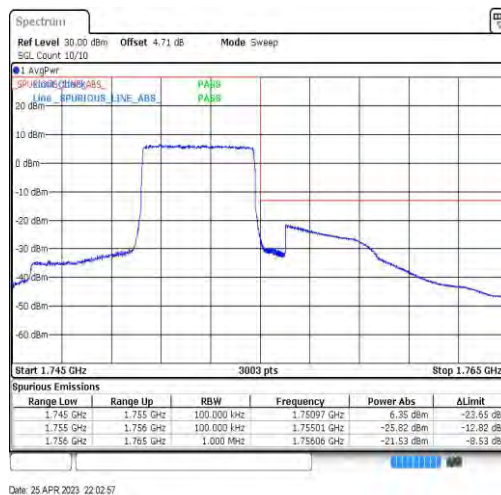
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Band4-5MHz-QPSK-20375-1RB#24



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

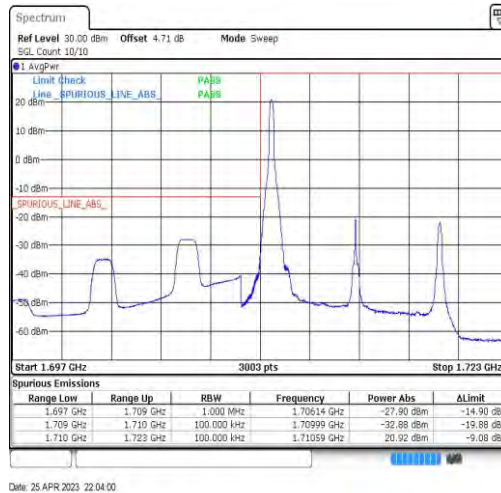


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Band4-10MHz-QPSK-20000-1RB#0



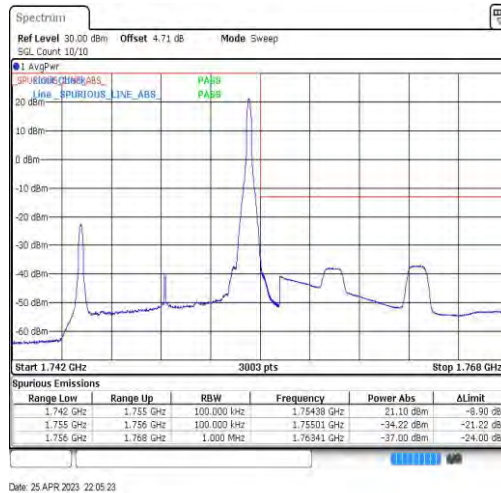
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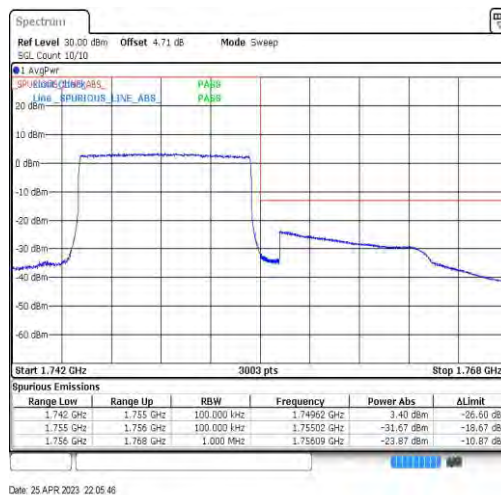
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Band4-10MHz-QPSK-20350-1RB#49



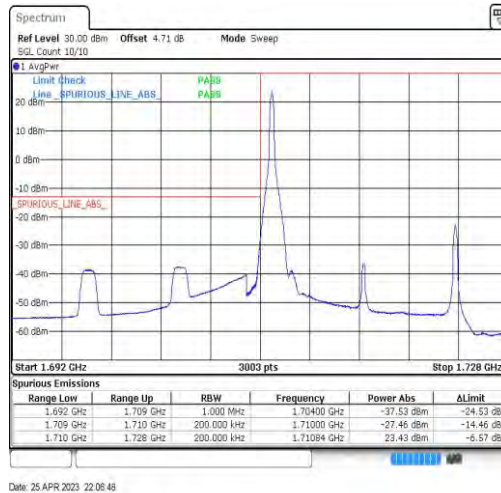
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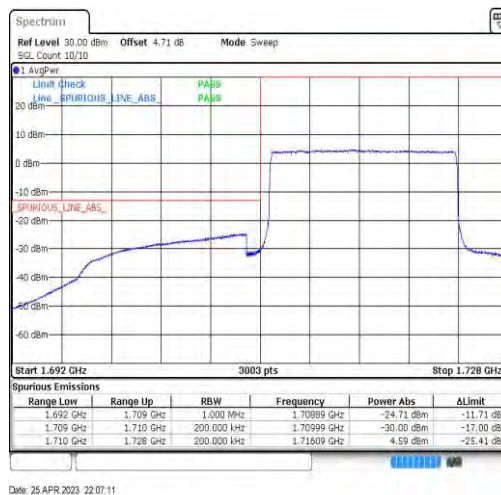
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Band4-15MHz-QPSK-20025-1RB#0



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



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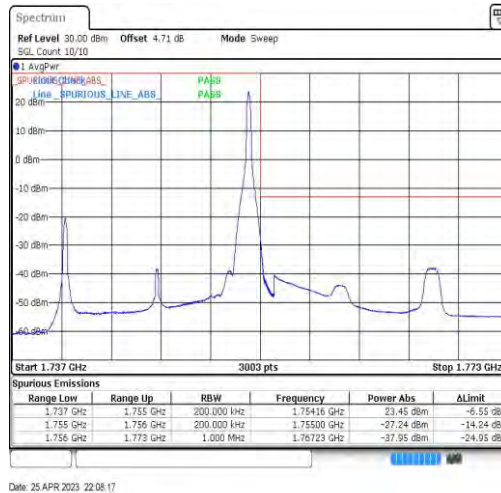
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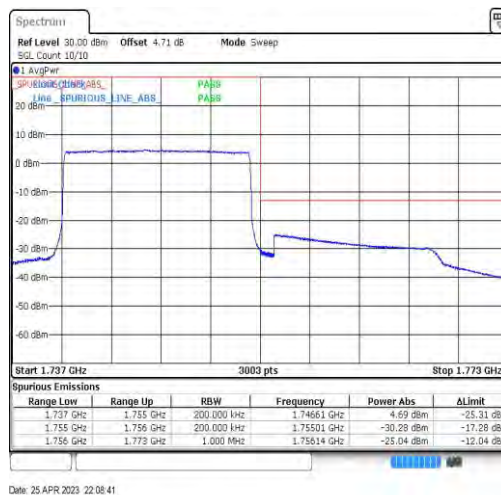
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Band4-15MHz-QPSK-20325-1RB#74



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



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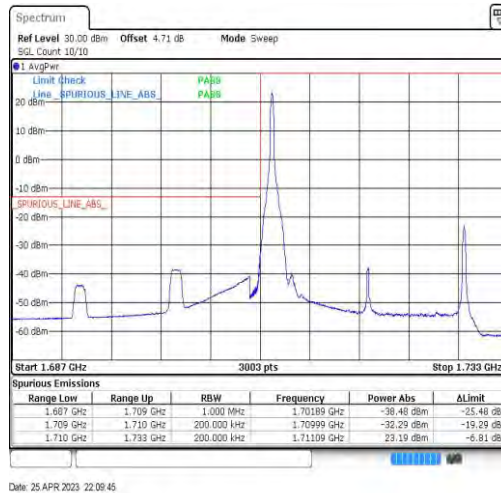
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Band4-20MHz-QPSK-20050-1RB#0



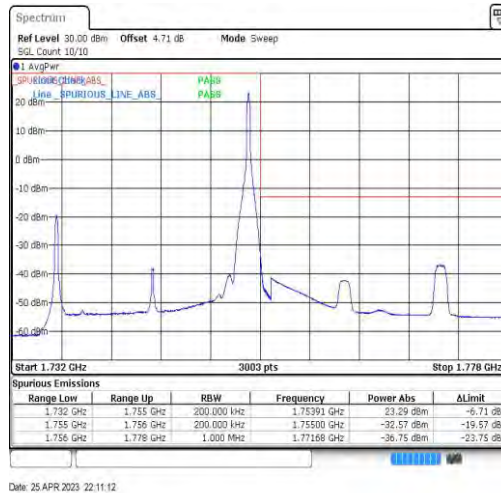
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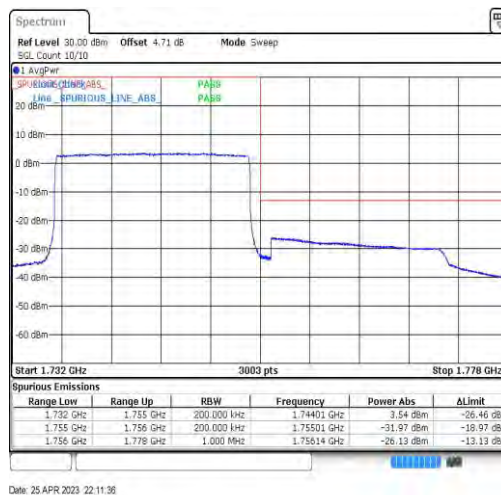
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Band4-20MHz-QPSK-20300-1RB#99



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



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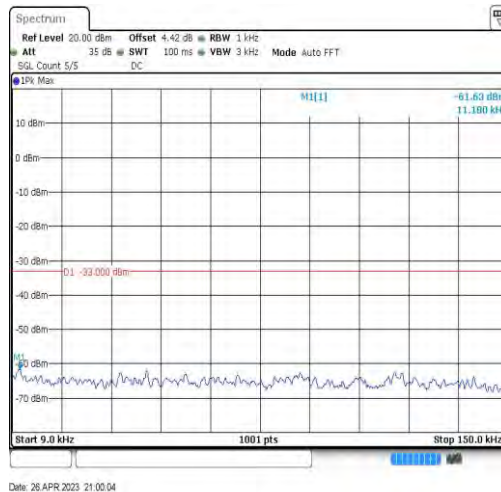
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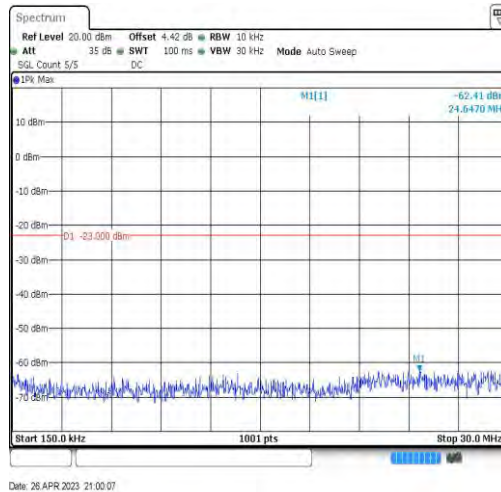


Conducted Spurious Emission

Test Graphs



Band4-20MHz-QPSK-20050-1RB#0-Range1:0.009~0.15MHz



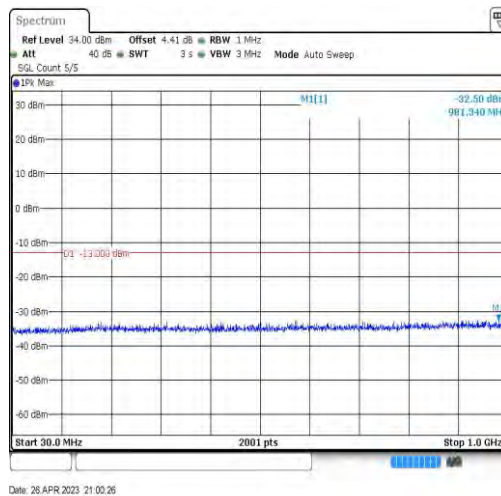
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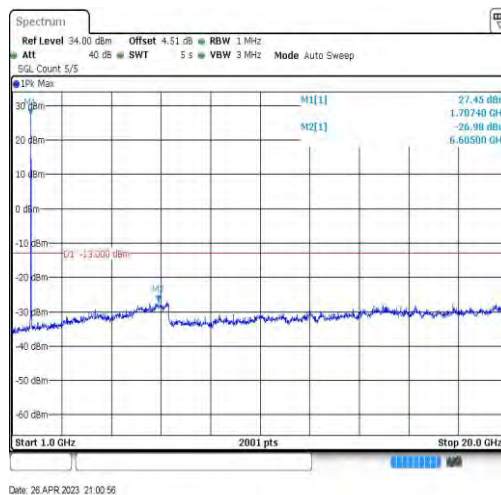
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Band4-20MHz-QPSK-20050-1RB#0-Range3:30~1000MHz



Band4-20MHz-QPSK-20050-1RB#0-Range4:1000~20000MHz



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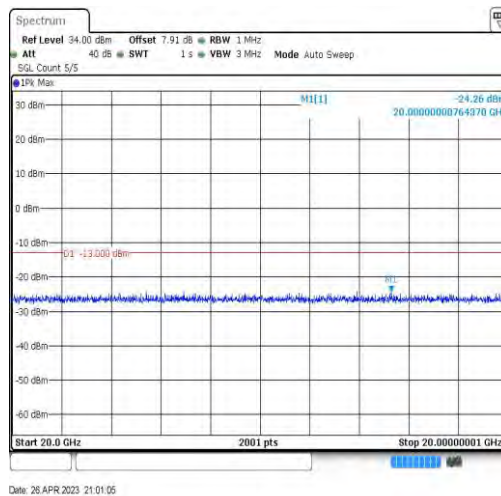
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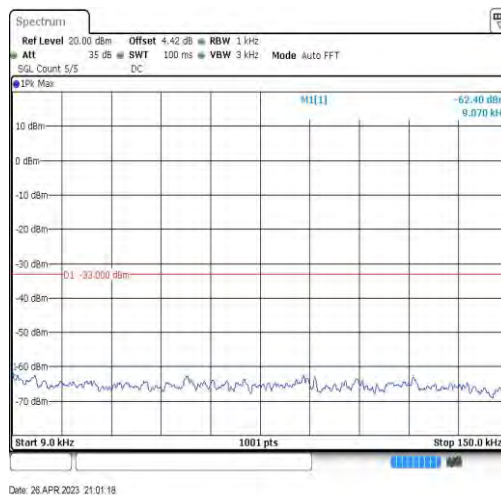
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Band4-20MHz-QPSK-20050-1RB#0-Range5:20000~40000MHz



Band4-20MHz-QPSK-20175-1RB#0-Range1:0.009~0.15MHz

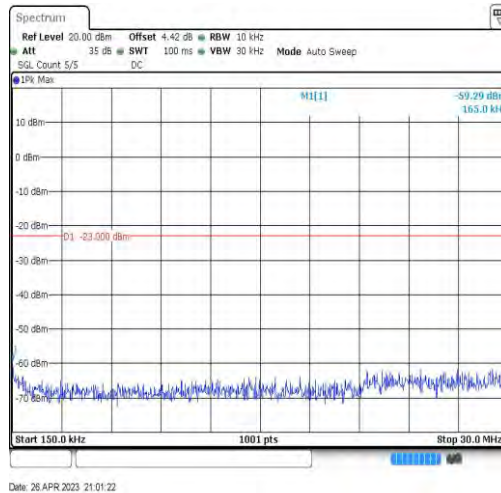


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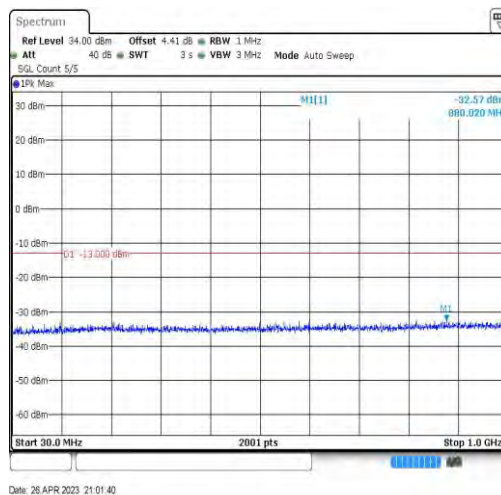
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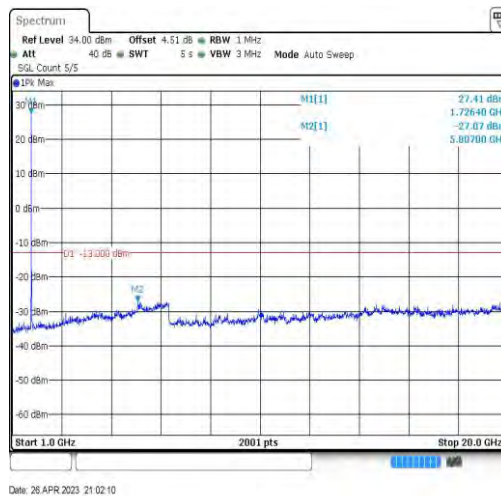
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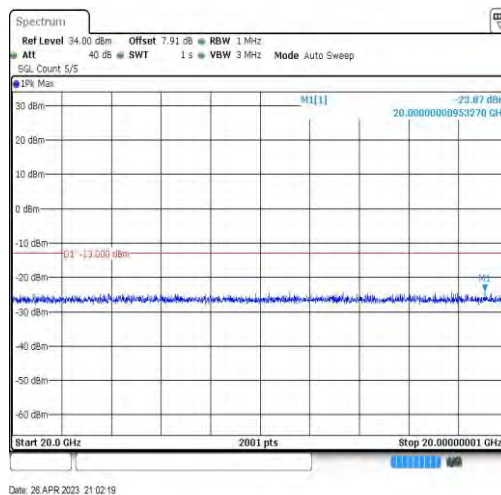
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Band4-20MHz-QPSK-20175-1RB#0-Range5:20000~40000MHz



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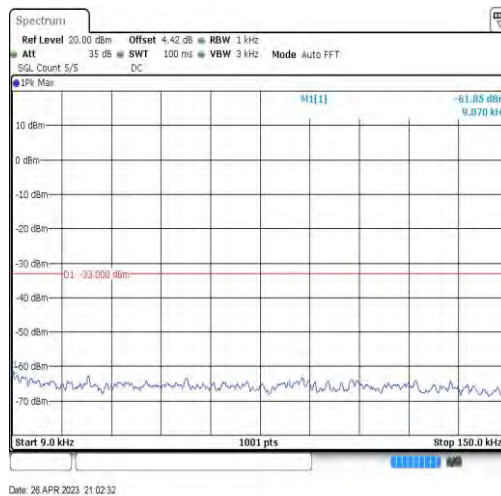
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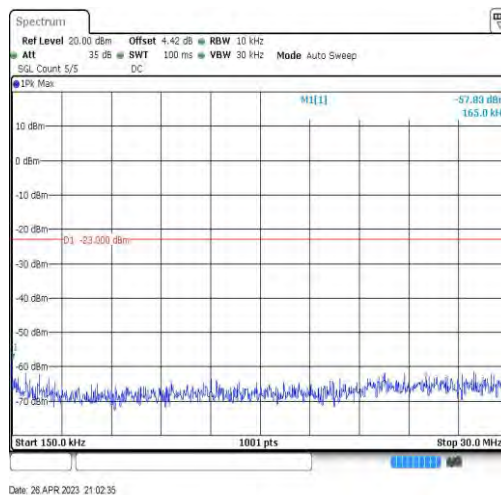
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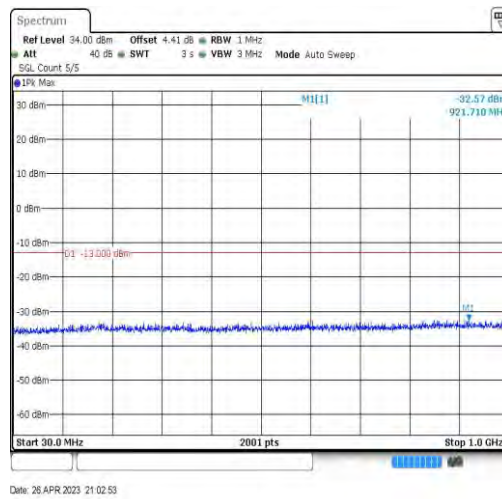


Band4-20MHz-QPSK-20300-1RB#0-Range1:0.009~0.15MHz

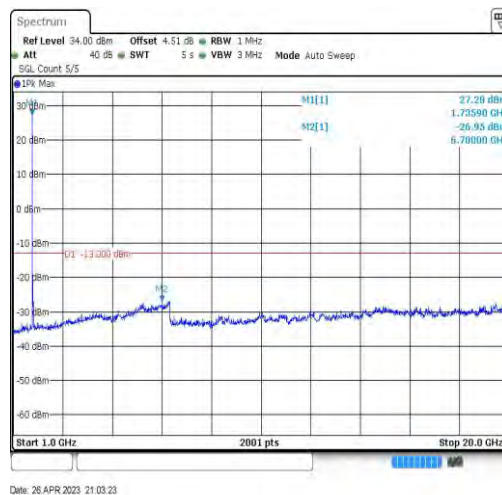


Band4-20MHz-QPSK-20300-1RB#0-Range2:0.15~30MHz





Band4-20MHz-QPSK-20300-1RB#0-Range3:30~1000MHz



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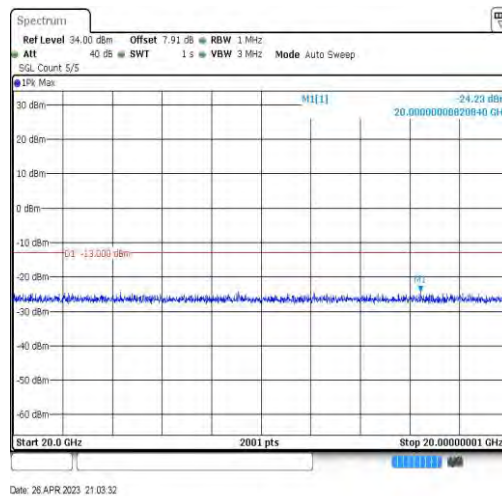




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Field Strength of Spurious Radiation

Test Band = LTE_4 ANT 13 _20MHz _TM1

Test Channel = LCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3422.2711	54.08	-45.33	28.73	-57.78	-13.00	44.78	274	195	Horizontal
2	4910.3455	51.48	-42.86	30.92	-55.72	-13.00	42.72	266	231	Horizontal
3	7689.9845	50.60	-37.69	36.76	-45.59	-13.00	32.59	289	291	Horizontal
4	9464.5732	51.87	-35.79	37.59	-41.59	-13.00	28.59	111	235	Horizontal
5	11050.1525	51.08	-37.29	40.15	-41.32	-13.00	28.32	264	66	Horizontal
6	15206.8603	54.89	-35.35	39.71	-36.01	-13.00	23.01	226	34	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3869.2935	51.19	-44.42	29.70	-58.79	-13.00	45.79	343	58	Vertical
2	5679.134	51.96	-41.20	32.50	-52.00	-13.00	39.00	166	178	Vertical
3	7450.7225	50.66	-38.29	36.80	-46.09	-13.00	33.09	187	58	Vertical
4	9509.5755	52.13	-35.97	37.80	-41.30	-13.00	28.30	142	18	Vertical
5	11033.6517	51.13	-37.19	40.13	-41.19	-13.00	28.19	166	158	Vertical
6	15208.3604	54.47	-35.37	39.72	-36.44	-13.00	23.44	384	250	Vertical



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Test Band = LTE_4 ANT 13 _20MHz _TM1

Test Channel = MCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3611.2806	51.75	-44.37	28.99	-58.89	-13.00	45.89	340	226	Horizontal
2	5702.3851	52.19	-41.15	32.50	-51.72	-13.00	38.72	156	70	Horizontal
3	7865.4933	50.44	-37.62	36.71	-45.73	-13.00	32.73	160	210	Horizontal
4	9450.3225	51.99	-35.70	37.50	-41.47	-13.00	28.47	323	270	Horizontal
5	11090.6545	51.54	-37.53	40.19	-41.06	-13.00	28.06	308	242	Horizontal
6	15211.3606	54.67	-35.39	39.72	-36.26	-13.00	23.26	294	326	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4450.5725	51.58	-43.18	30.09	-56.77	-13.00	43.77	266	339	Vertical
2	5704.6352	51.90	-41.15	32.50	-52.01	-13.00	39.01	169	158	Vertical
3	7846.7423	50.53	-37.70	36.79	-45.64	-13.00	32.64	364	307	Vertical
4	9478.0739	51.84	-35.87	37.67	-41.62	-13.00	28.62	163	218	Vertical
5	11005.1503	51.07	-37.01	40.11	-41.09	-13.00	28.09	341	218	Vertical
6	15192.6096	54.79	-35.58	39.74	-36.31	-13.00	23.31	159	98	Vertical



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Test Band = LTE_4 ANT 13 _20MHz _TM1

Test Channel = HCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3904.5452	51.16	-44.20	29.72	-58.58	-13.00	45.58	246	194	Horizontal
2	6062.4031	51.40	-40.81	33.48	-51.19	-13.00	38.19	226	166	Horizontal
3	7846.7423	50.53	-37.70	36.79	-45.64	-13.00	32.64	216	286	Horizontal
4	9447.3224	51.91	-35.68	37.49	-41.54	-13.00	28.54	249	178	Horizontal
5	11083.9042	51.33	-37.49	40.18	-41.24	-13.00	28.24	268	102	Horizontal
6	16598.1799	54.55	-35.35	39.50	-36.56	-13.00	23.56	223	158	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3604.5302	51.74	-44.36	28.94	-58.94	-13.00	45.94	295	150	Vertical
2	5693.3847	52.52	-41.16	32.50	-51.40	-13.00	38.40	226	343	Vertical
3	7473.9737	50.86	-38.29	36.85	-45.84	-13.00	32.84	136	174	Vertical
4	9459.323	51.81	-35.75	37.56	-41.64	-13.00	28.64	198	178	Vertical
5	11002.1501	51.20	-36.99	40.10	-40.95	-13.00	27.95	168	82	Vertical
6	15202.3601	54.40	-35.31	39.70	-36.47	-13.00	23.47	223	327	Vertical



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Test Band = LTE_4 ANT 31 _20MHz _TM1

Test Channel = LCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3422.2711	52.37	-45.33	28.73	-59.49	-13.00	46.49	194	196	Horizontal
2	5715.8858	51.61	-41.19	32.50	-52.34	-13.00	39.34	165	236	Horizontal
3	7694.4847	49.82	-37.63	36.78	-46.29	-13.00	33.29	221	311	Horizontal
4	9465.3233	51.76	-35.79	37.59	-41.70	-13.00	28.70	231	260	Horizontal
5	11029.1515	50.62	-37.16	40.13	-41.67	-13.00	28.67	214	236	Horizontal
6	15214.3607	53.91	-35.42	39.73	-37.04	-13.00	24.04	213	271	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3952.5476	50.42	-44.18	29.89	-59.13	-13.00	46.13	195	80	Vertical
2	5712.8856	51.50	-41.18	32.50	-52.44	-13.00	39.44	155	234	Vertical
3	7484.4742	50.42	-38.29	36.87	-46.26	-13.00	33.26	264	199	Vertical
4	9444.3222	51.89	-35.66	37.48	-41.55	-13.00	28.55	185	108	Vertical
5	11017.1509	50.61	-37.08	40.12	-41.61	-13.00	28.61	236	286	Vertical
6	15208.3604	54.08	-35.37	39.72	-36.83	-13.00	23.83	156	211	Vertical



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Test Band = LTE_ 4 ANT 31 _20MHz _TM1

Test Channel = MCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3447.0224	51.66	-45.26	28.88	-59.98	-13.00	46.98	215	187	Horizontal
2	5647.6324	51.74	-41.30	32.50	-52.32	-13.00	39.32	223	334	Horizontal
3	7855.7428	50.28	-37.67	36.77	-45.88	-13.00	32.88	215	18	Horizontal
4	9524.5762	51.71	-35.92	37.80	-41.67	-13.00	28.67	266	25	Horizontal
5	10977.3989	50.65	-37.08	40.12	-41.57	-13.00	28.57	221	346	Horizontal
6	15209.1105	53.82	-35.37	39.72	-37.09	-13.00	24.09	264	235	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3732.7866	51.32	-44.65	29.50	-59.09	-13.00	46.09	216	227	Vertical
2	5691.1346	51.63	-41.17	32.50	-52.30	-13.00	39.30	231	164	Vertical
3	7491.2246	50.21	-38.29	36.88	-46.46	-13.00	33.46	241	40	Vertical
4	9450.3225	51.92	-35.70	37.50	-41.54	-13.00	28.54	264	56	Vertical
5	11014.1507	50.50	-37.07	40.11	-41.72	-13.00	28.72	216	28	Vertical
6	15203.1102	54.02	-35.32	39.71	-36.85	-13.00	23.85	215	128	Vertical



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Test Band = LTE_ 4 ANT 31 _20MHz _TM1

Test Channel = HCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3974.2987	50.48	-44.18	29.85	-59.11	-13.00	46.11	216	188	Horizontal
2	5635.6318	51.74	-41.33	32.53	-52.32	-13.00	39.32	223	160	Horizontal
3	7923.9962	50.19	-37.43	36.45	-46.05	-13.00	33.05	216	219	Horizontal
4	9536.5768	51.76	-35.87	37.80	-41.57	-13.00	28.57	261	38	Horizontal
5	11090.6545	51.02	-37.53	40.19	-41.58	-13.00	28.58	164	10	Horizontal
6	15198.6099	54.01	-35.34	39.71	-36.88	-13.00	23.88	269	279	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3888.0444	50.84	-44.29	29.70	-59.01	-13.00	46.01	226	266	Vertical
2	5663.3832	51.75	-41.25	32.50	-52.26	-13.00	39.26	315	183	Vertical
3	7421.4711	50.44	-38.28	36.74	-46.36	-13.00	33.36	224	215	Vertical
4	9441.3221	51.84	-35.64	37.47	-41.59	-13.00	28.59	213	125	Vertical
5	11043.4022	50.73	-37.24	40.14	-41.63	-13.00	28.63	219	285	Vertical
6	15209.8605	53.95	-35.38	39.72	-36.97	-13.00	23.97	233	297	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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Frequency Stability

Test Result

Voltage									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band4	20MHz	QPSK	20175	100RB#0	VN	NT	1.10	0.000635	PASS
Band4	20MHz	QPSK	20175	100RB#0	VL	NT	2.20	0.001270	PASS
Band4	20MHz	QPSK	20175	100RB#0	VH	NT	1.80	0.001039	PASS

Temperature									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band4	20MHz	QPSK	20175	100RB#0	NV	-30	2.10	0.001212	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-20	2.10	0.001212	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-10	1.70	0.000981	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	0	0.80	0.000462	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	10	1.40	0.000808	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	20	0.30	0.000173	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	30	-0.40	-0.000231	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	40	-0.90	-0.000519	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	50	-1.00	-0.000577	PASS

---End of Attachment---



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