



Appendix B

E-UTRA Band 4



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1 Effective (Isotropic) Radiated Power

1.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band4	1.4MHz	QPSK	19957	1RB#0	23.02	21.86	30.00	PASS
Band4	1.4MHz	QPSK	19957	1RB#2	23.03	21.87	30.00	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	22.82	21.66	30.00	PASS
Band4	1.4MHz	QPSK	19957	3RB#0	23.02	21.86	30.00	PASS
Band4	1.4MHz	QPSK	19957	3RB#3	23.10	21.94	30.00	PASS
Band4	1.4MHz	QPSK	19957	3RB#1	23.07	21.91	30.00	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	22.27	21.11	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	22.93	21.77	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	23.00	21.84	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	22.86	21.70	30.00	PASS
Band4	1.4MHz	QPSK	20175	3RB#3	22.96	21.80	30.00	PASS
Band4	1.4MHz	QPSK	20175	3RB#1	22.97	21.81	30.00	PASS
Band4	1.4MHz	QPSK	20175	3RB#0	23.02	21.86	30.00	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	21.99	20.83	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	22.68	21.52	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	22.94	21.78	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	22.73	21.57	30.00	PASS
Band4	1.4MHz	QPSK	20393	3RB#0	22.83	21.67	30.00	PASS
Band4	1.4MHz	QPSK	20393	3RB#1	22.88	21.72	30.00	PASS
Band4	1.4MHz	QPSK	20393	3RB#3	22.92	21.76	30.00	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	21.85	20.69	30.00	PASS
Band4	1.4MHz	64QAM	19957	1RB#5	21.19	20.03	30.00	PASS
Band4	1.4MHz	64QAM	19957	1RB#2	21.17	20.01	30.00	PASS
Band4	1.4MHz	64QAM	19957	1RB#0	21.24	20.08	30.00	PASS
Band4	1.4MHz	64QAM	19957	3RB#3	21.04	19.88	30.00	PASS
Band4	1.4MHz	64QAM	19957	3RB#0	21.40	20.24	30.00	PASS
Band4	1.4MHz	64QAM	19957	3RB#1	21.01	19.85	30.00	PASS



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Band4	1.4MHz	64QAM	19957	6RB#0	20.07	18.91	30.00	PASS
Band4	1.4MHz	64QAM	20175	1RB#2	21.41	20.25	30.00	PASS
Band4	1.4MHz	64QAM	20175	1RB#5	21.32	20.16	30.00	PASS
Band4	1.4MHz	64QAM	20175	1RB#0	20.97	19.81	30.00	PASS
Band4	1.4MHz	64QAM	20175	3RB#0	20.98	19.82	30.00	PASS
Band4	1.4MHz	64QAM	20175	3RB#3	21.15	19.99	30.00	PASS
Band4	1.4MHz	64QAM	20175	3RB#1	21.08	19.92	30.00	PASS
Band4	1.4MHz	64QAM	20175	6RB#0	20.26	19.10	30.00	PASS
Band4	1.4MHz	64QAM	20393	1RB#0	20.66	19.50	30.00	PASS
Band4	1.4MHz	64QAM	20393	1RB#5	20.88	19.72	30.00	PASS
Band4	1.4MHz	64QAM	20393	1RB#2	21.35	20.19	30.00	PASS
Band4	1.4MHz	64QAM	20393	3RB#3	20.98	19.82	30.00	PASS
Band4	1.4MHz	64QAM	20393	3RB#1	21.14	19.98	30.00	PASS
Band4	1.4MHz	64QAM	20393	3RB#0	20.80	19.64	30.00	PASS
Band4	1.4MHz	64QAM	20393	6RB#0	20.17	19.01	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	22.05	20.89	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	22.15	20.99	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	22.11	20.95	30.00	PASS
Band4	1.4MHz	16QAM	19957	3RB#0	21.93	20.77	30.00	PASS
Band4	1.4MHz	16QAM	19957	3RB#3	22.28	21.12	30.00	PASS
Band4	1.4MHz	16QAM	19957	3RB#1	21.89	20.73	30.00	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	20.98	19.82	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	22.23	21.07	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	22.18	21.02	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	21.94	20.78	30.00	PASS
Band4	1.4MHz	16QAM	20175	3RB#1	21.98	20.82	30.00	PASS
Band4	1.4MHz	16QAM	20175	3RB#3	22.08	20.92	30.00	PASS
Band4	1.4MHz	16QAM	20175	3RB#0	21.88	20.72	30.00	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	21.22	20.06	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	21.65	20.49	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	21.81	20.65	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	22.26	21.10	30.00	PASS
Band4	1.4MHz	16QAM	20393	3RB#0	21.90	20.74	30.00	PASS





Band4	1.4MHz	16QAM	20393	3RB#3	22.10	20.94	30.00	PASS
Band4	1.4MHz	16QAM	20393	3RB#1	21.73	20.57	30.00	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	20.97	19.81	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#14	23.07	21.91	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#8	23.44	22.28	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#0	22.87	21.71	30.00	PASS
Band4	3MHz	QPSK	19965	8RB#0	22.10	20.94	30.00	PASS
Band4	3MHz	QPSK	19965	8RB#7	22.09	20.93	30.00	PASS
Band4	3MHz	QPSK	19965	8RB#4	22.04	20.88	30.00	PASS
Band4	3MHz	QPSK	19965	15RB#0	22.09	20.93	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#0	22.98	21.82	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#8	23.04	21.88	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#14	22.92	21.76	30.00	PASS
Band4	3MHz	QPSK	20175	8RB#7	22.07	20.91	30.00	PASS
Band4	3MHz	QPSK	20175	8RB#0	22.10	20.94	30.00	PASS
Band4	3MHz	QPSK	20175	8RB#4	21.99	20.83	30.00	PASS
Band4	3MHz	QPSK	20175	15RB#0	22.00	20.84	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#0	22.78	21.62	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#14	22.90	21.74	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#8	22.85	21.69	30.00	PASS
Band4	3MHz	QPSK	20385	8RB#7	21.91	20.75	30.00	PASS
Band4	3MHz	QPSK	20385	8RB#0	21.85	20.69	30.00	PASS
Band4	3MHz	QPSK	20385	8RB#4	21.88	20.72	30.00	PASS
Band4	3MHz	QPSK	20385	15RB#0	21.84	20.68	30.00	PASS
Band4	3MHz	64QAM	19965	1RB#14	21.20	20.04	30.00	PASS
Band4	3MHz	64QAM	19965	1RB#0	21.35	20.19	30.00	PASS
Band4	3MHz	64QAM	19965	1RB#8	21.23	20.07	30.00	PASS
Band4	3MHz	64QAM	19965	8RB#7	20.22	19.06	30.00	PASS
Band4	3MHz	64QAM	19965	8RB#4	20.38	19.22	30.00	PASS
Band4	3MHz	64QAM	19965	8RB#0	20.33	19.17	30.00	PASS
Band4	3MHz	64QAM	19965	15RB#0	20.22	19.06	30.00	PASS
Band4	3MHz	64QAM	20175	1RB#0	21.39	20.23	30.00	PASS
Band4	3MHz	64QAM	20175	1RB#8	20.97	19.81	30.00	PASS



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Band4	3MHz	64QAM	20175	1RB#14	21.38	20.22	30.00	PASS
Band4	3MHz	64QAM	20175	8RB#7	20.14	18.98	30.00	PASS
Band4	3MHz	64QAM	20175	8RB#4	20.02	18.86	30.00	PASS
Band4	3MHz	64QAM	20175	8RB#0	20.15	18.99	30.00	PASS
Band4	3MHz	64QAM	20175	15RB#0	20.18	19.02	30.00	PASS
Band4	3MHz	64QAM	20385	1RB#14	21.34	20.18	30.00	PASS
Band4	3MHz	64QAM	20385	1RB#8	21.44	20.28	30.00	PASS
Band4	3MHz	64QAM	20385	1RB#0	21.09	19.93	30.00	PASS
Band4	3MHz	64QAM	20385	8RB#7	20.10	18.94	30.00	PASS
Band4	3MHz	64QAM	20385	8RB#4	20.01	18.85	30.00	PASS
Band4	3MHz	64QAM	20385	8RB#0	19.94	18.78	30.00	PASS
Band4	3MHz	64QAM	20385	15RB#0	20.08	18.92	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#8	22.19	21.03	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#14	22.25	21.09	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#0	22.10	20.94	30.00	PASS
Band4	3MHz	16QAM	19965	8RB#7	21.14	19.98	30.00	PASS
Band4	3MHz	16QAM	19965	8RB#4	21.23	20.07	30.00	PASS
Band4	3MHz	16QAM	19965	8RB#0	21.21	20.05	30.00	PASS
Band4	3MHz	16QAM	19965	15RB#0	21.08	19.92	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#0	22.31	21.15	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#8	21.95	20.79	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#14	22.27	21.11	30.00	PASS
Band4	3MHz	16QAM	20175	8RB#4	21.10	19.94	30.00	PASS
Band4	3MHz	16QAM	20175	8RB#0	21.00	19.84	30.00	PASS
Band4	3MHz	16QAM	20175	8RB#7	21.05	19.89	30.00	PASS
Band4	3MHz	16QAM	20175	15RB#0	21.08	19.92	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#0	22.26	21.10	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#14	22.40	21.24	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#8	21.89	20.73	30.00	PASS
Band4	3MHz	16QAM	20385	8RB#7	21.00	19.84	30.00	PASS
Band4	3MHz	16QAM	20385	8RB#0	20.89	19.73	30.00	PASS
Band4	3MHz	16QAM	20385	8RB#4	20.93	19.77	30.00	PASS
Band4	3MHz	16QAM	20385	15RB#0	20.92	19.76	30.00	PASS



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Band4	5MHz	QPSK	19975	1RB#12	22.99	21.83	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#24	22.96	21.80	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#0	22.89	21.73	30.00	PASS
Band4	5MHz	QPSK	19975	12RB#13	22.00	20.84	30.00	PASS
Band4	5MHz	QPSK	19975	12RB#0	22.12	20.96	30.00	PASS
Band4	5MHz	QPSK	19975	12RB#6	22.09	20.93	30.00	PASS
Band4	5MHz	QPSK	19975	25RB#0	22.10	20.94	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#0	22.67	21.51	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#12	22.99	21.83	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#24	22.86	21.70	30.00	PASS
Band4	5MHz	QPSK	20175	12RB#13	21.98	20.82	30.00	PASS
Band4	5MHz	QPSK	20175	12RB#0	22.17	21.01	30.00	PASS
Band4	5MHz	QPSK	20175	12RB#6	21.99	20.83	30.00	PASS
Band4	5MHz	QPSK	20175	25RB#0	21.96	20.80	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#24	22.76	21.60	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#12	22.75	21.59	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#0	22.74	21.58	30.00	PASS
Band4	5MHz	QPSK	20375	12RB#0	21.86	20.70	30.00	PASS
Band4	5MHz	QPSK	20375	12RB#13	22.01	20.85	30.00	PASS
Band4	5MHz	QPSK	20375	12RB#6	21.77	20.61	30.00	PASS
Band4	5MHz	QPSK	20375	25RB#0	21.81	20.65	30.00	PASS
Band4	5MHz	64QAM	19975	1RB#24	21.07	19.91	30.00	PASS
Band4	5MHz	64QAM	19975	1RB#12	21.12	19.96	30.00	PASS
Band4	5MHz	64QAM	19975	1RB#0	21.06	19.90	30.00	PASS
Band4	5MHz	64QAM	19975	12RB#6	20.15	18.99	30.00	PASS
Band4	5MHz	64QAM	19975	12RB#0	20.23	19.07	30.00	PASS
Band4	5MHz	64QAM	19975	12RB#13	20.20	19.04	30.00	PASS
Band4	5MHz	64QAM	19975	25RB#0	20.19	19.03	30.00	PASS
Band4	5MHz	64QAM	20175	1RB#12	21.29	20.13	30.00	PASS
Band4	5MHz	64QAM	20175	1RB#24	21.26	20.10	30.00	PASS
Band4	5MHz	64QAM	20175	1RB#0	20.66	19.50	30.00	PASS
Band4	5MHz	64QAM	20175	12RB#0	19.95	18.79	30.00	PASS
Band4	5MHz	64QAM	20175	12RB#6	20.20	19.04	30.00	PASS



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Band4	5MHz	64QAM	20175	12RB#13	20.15	18.99	30.00	PASS
Band4	5MHz	64QAM	20175	25RB#0	20.02	18.86	30.00	PASS
Band4	5MHz	64QAM	20375	1RB#24	21.04	19.88	30.00	PASS
Band4	5MHz	64QAM	20375	1RB#12	21.22	20.06	30.00	PASS
Band4	5MHz	64QAM	20375	1RB#0	20.72	19.56	30.00	PASS
Band4	5MHz	64QAM	20375	12RB#13	20.06	18.90	30.00	PASS
Band4	5MHz	64QAM	20375	12RB#6	20.02	18.86	30.00	PASS
Band4	5MHz	64QAM	20375	12RB#0	20.01	18.85	30.00	PASS
Band4	5MHz	64QAM	20375	25RB#0	19.90	18.74	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#0	21.97	20.81	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#12	22.13	20.97	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#24	21.90	20.74	30.00	PASS
Band4	5MHz	16QAM	19975	12RB#0	21.06	19.90	30.00	PASS
Band4	5MHz	16QAM	19975	12RB#13	21.13	19.97	30.00	PASS
Band4	5MHz	16QAM	19975	12RB#6	21.02	19.86	30.00	PASS
Band4	5MHz	16QAM	19975	25RB#0	21.08	19.92	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#12	22.19	21.03	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#0	22.12	20.96	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#24	21.66	20.50	30.00	PASS
Band4	5MHz	16QAM	20175	12RB#13	20.96	19.80	30.00	PASS
Band4	5MHz	16QAM	20175	12RB#0	21.10	19.94	30.00	PASS
Band4	5MHz	16QAM	20175	12RB#6	21.10	19.94	30.00	PASS
Band4	5MHz	16QAM	20175	25RB#0	20.99	19.83	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#0	21.88	20.72	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#12	22.07	20.91	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#24	21.78	20.62	30.00	PASS
Band4	5MHz	16QAM	20375	12RB#0	20.88	19.72	30.00	PASS
Band4	5MHz	16QAM	20375	12RB#6	21.00	19.84	30.00	PASS
Band4	5MHz	16QAM	20375	12RB#13	20.94	19.78	30.00	PASS
Band4	5MHz	16QAM	20375	25RB#0	20.82	19.66	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#24	23.12	21.96	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#49	22.99	21.83	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#0	22.99	21.83	30.00	PASS



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Band4	10MHz	QPSK	20000	25RB#12	22.20	21.04	30.00	PASS
Band4	10MHz	QPSK	20000	25RB#25	22.13	20.97	30.00	PASS
Band4	10MHz	QPSK	20000	25RB#0	22.20	21.04	30.00	PASS
Band4	10MHz	QPSK	20000	50RB#0	22.11	20.95	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#24	22.93	21.77	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#0	23.00	21.84	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#49	22.99	21.83	30.00	PASS
Band4	10MHz	QPSK	20175	25RB#0	22.09	20.93	30.00	PASS
Band4	10MHz	QPSK	20175	25RB#12	22.15	20.99	30.00	PASS
Band4	10MHz	QPSK	20175	25RB#25	22.14	20.98	30.00	PASS
Band4	10MHz	QPSK	20175	50RB#0	22.09	20.93	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#49	22.74	21.58	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#24	22.97	21.81	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#0	22.66	21.50	30.00	PASS
Band4	10MHz	QPSK	20350	25RB#0	22.01	20.85	30.00	PASS
Band4	10MHz	QPSK	20350	25RB#12	21.87	20.71	30.00	PASS
Band4	10MHz	QPSK	20350	25RB#25	21.98	20.82	30.00	PASS
Band4	10MHz	QPSK	20350	50RB#0	22.04	20.88	30.00	PASS
Band4	10MHz	64QAM	20000	1RB#49	21.32	20.16	30.00	PASS
Band4	10MHz	64QAM	20000	1RB#24	21.65	20.49	30.00	PASS
Band4	10MHz	64QAM	20000	1RB#0	21.47	20.31	30.00	PASS
Band4	10MHz	64QAM	20000	25RB#0	20.22	19.06	30.00	PASS
Band4	10MHz	64QAM	20000	25RB#25	20.16	19.00	30.00	PASS
Band4	10MHz	64QAM	20000	25RB#12	20.36	19.20	30.00	PASS
Band4	10MHz	64QAM	20000	50RB#0	20.29	19.13	30.00	PASS
Band4	10MHz	64QAM	20175	1RB#24	21.30	20.14	30.00	PASS
Band4	10MHz	64QAM	20175	1RB#49	21.58	20.42	30.00	PASS
Band4	10MHz	64QAM	20175	1RB#0	21.02	19.86	30.00	PASS
Band4	10MHz	64QAM	20175	25RB#0	20.15	18.99	30.00	PASS
Band4	10MHz	64QAM	20175	25RB#25	20.28	19.12	30.00	PASS
Band4	10MHz	64QAM	20175	25RB#12	20.18	19.02	30.00	PASS
Band4	10MHz	64QAM	20175	50RB#0	20.25	19.09	30.00	PASS
Band4	10MHz	64QAM	20350	1RB#0	21.49	20.33	30.00	PASS



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Band4	10MHz	64QAM	20350	1RB#49	21.47	20.31	30.00	PASS
Band4	10MHz	64QAM	20350	1RB#24	20.98	19.82	30.00	PASS
Band4	10MHz	64QAM	20350	25RB#25	20.05	18.89	30.00	PASS
Band4	10MHz	64QAM	20350	25RB#12	19.93	18.77	30.00	PASS
Band4	10MHz	64QAM	20350	25RB#0	19.86	18.70	30.00	PASS
Band4	10MHz	64QAM	20350	50RB#0	20.10	18.94	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#0	22.17	21.01	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#24	22.45	21.29	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#49	22.46	21.30	30.00	PASS
Band4	10MHz	16QAM	20000	25RB#25	21.11	19.95	30.00	PASS
Band4	10MHz	16QAM	20000	25RB#12	21.02	19.86	30.00	PASS
Band4	10MHz	16QAM	20000	25RB#0	21.26	20.10	30.00	PASS
Band4	10MHz	16QAM	20000	50RB#0	21.27	20.11	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#24	22.12	20.96	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#0	22.48	21.32	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#49	21.88	20.72	30.00	PASS
Band4	10MHz	16QAM	20175	25RB#25	21.04	19.88	30.00	PASS
Band4	10MHz	16QAM	20175	25RB#12	21.22	20.06	30.00	PASS
Band4	10MHz	16QAM	20175	25RB#0	21.07	19.91	30.00	PASS
Band4	10MHz	16QAM	20175	50RB#0	21.10	19.94	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#0	22.43	21.27	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#49	22.33	21.17	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#24	21.79	20.63	30.00	PASS
Band4	10MHz	16QAM	20350	25RB#12	20.99	19.83	30.00	PASS
Band4	10MHz	16QAM	20350	25RB#25	20.89	19.73	30.00	PASS
Band4	10MHz	16QAM	20350	25RB#0	20.89	19.73	30.00	PASS
Band4	10MHz	16QAM	20350	50RB#0	21.01	19.85	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#38	22.77	21.61	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#0	22.97	21.81	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#74	22.80	21.64	30.00	PASS
Band4	15MHz	QPSK	20025	36RB#0	22.12	20.96	30.00	PASS
Band4	15MHz	QPSK	20025	36RB#39	22.21	21.05	30.00	PASS
Band4	15MHz	QPSK	20025	36RB#18	22.13	20.97	30.00	PASS



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Band4	15MHz	QPSK	20025	75RB#0	22.15	20.99	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#0	22.90	21.74	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#38	22.92	21.76	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#74	22.78	21.62	30.00	PASS
Band4	15MHz	QPSK	20175	36RB#0	22.14	20.98	30.00	PASS
Band4	15MHz	QPSK	20175	36RB#39	22.04	20.88	30.00	PASS
Band4	15MHz	QPSK	20175	36RB#18	22.03	20.87	30.00	PASS
Band4	15MHz	QPSK	20175	75RB#0	22.08	20.92	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#0	22.80	21.64	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#74	22.90	21.74	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#38	22.63	21.47	30.00	PASS
Band4	15MHz	QPSK	20325	36RB#18	21.93	20.77	30.00	PASS
Band4	15MHz	QPSK	20325	36RB#0	21.99	20.83	30.00	PASS
Band4	15MHz	QPSK	20325	36RB#39	21.85	20.69	30.00	PASS
Band4	15MHz	QPSK	20325	75RB#0	21.98	20.82	30.00	PASS
Band4	15MHz	64QAM	20025	1RB#74	20.92	19.76	30.00	PASS
Band4	15MHz	64QAM	20025	1RB#38	21.21	20.05	30.00	PASS
Band4	15MHz	64QAM	20025	1RB#0	21.30	20.14	30.00	PASS
Band4	15MHz	64QAM	20025	36RB#18	20.10	18.94	30.00	PASS
Band4	15MHz	64QAM	20025	36RB#0	20.24	19.08	30.00	PASS
Band4	15MHz	64QAM	20025	36RB#39	20.19	19.03	30.00	PASS
Band4	15MHz	64QAM	20025	75RB#0	20.08	18.92	30.00	PASS
Band4	15MHz	64QAM	20175	1RB#74	21.07	19.91	30.00	PASS
Band4	15MHz	64QAM	20175	1RB#38	21.14	19.98	30.00	PASS
Band4	15MHz	64QAM	20175	1RB#0	20.69	19.53	30.00	PASS
Band4	15MHz	64QAM	20175	36RB#18	20.02	18.86	30.00	PASS
Band4	15MHz	64QAM	20175	36RB#39	20.13	18.97	30.00	PASS
Band4	15MHz	64QAM	20175	36RB#0	20.09	18.93	30.00	PASS
Band4	15MHz	64QAM	20175	75RB#0	20.07	18.91	30.00	PASS
Band4	15MHz	64QAM	20325	1RB#74	20.94	19.78	30.00	PASS
Band4	15MHz	64QAM	20325	1RB#38	21.05	19.89	30.00	PASS
Band4	15MHz	64QAM	20325	1RB#0	21.00	19.84	30.00	PASS
Band4	15MHz	64QAM	20325	36RB#39	20.04	18.88	30.00	PASS



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Band4	15MHz	64QAM	20325	36RB#18	20.01	18.85	30.00	PASS
Band4	15MHz	64QAM	20325	36RB#0	20.04	18.88	30.00	PASS
Band4	15MHz	64QAM	20325	75RB#0	19.98	18.82	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#0	21.87	20.71	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#38	22.19	21.03	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#74	22.22	21.06	30.00	PASS
Band4	15MHz	16QAM	20025	36RB#39	21.05	19.89	30.00	PASS
Band4	15MHz	16QAM	20025	36RB#18	21.16	20.00	30.00	PASS
Band4	15MHz	16QAM	20025	36RB#0	21.10	19.94	30.00	PASS
Band4	15MHz	16QAM	20025	75RB#0	21.03	19.87	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#38	22.00	20.84	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#74	22.14	20.98	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#0	21.68	20.52	30.00	PASS
Band4	15MHz	16QAM	20175	36RB#0	20.96	19.80	30.00	PASS
Band4	15MHz	16QAM	20175	36RB#18	21.05	19.89	30.00	PASS
Band4	15MHz	16QAM	20175	36RB#39	20.88	19.72	30.00	PASS
Band4	15MHz	16QAM	20175	75RB#0	21.04	19.88	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#74	21.96	20.80	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#0	21.94	20.78	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#38	21.94	20.78	30.00	PASS
Band4	15MHz	16QAM	20325	36RB#18	20.95	19.79	30.00	PASS
Band4	15MHz	16QAM	20325	36RB#0	20.95	19.79	30.00	PASS
Band4	15MHz	16QAM	20325	36RB#39	20.89	19.73	30.00	PASS
Band4	15MHz	16QAM	20325	75RB#0	20.94	19.78	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#0	22.87	21.71	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#99	23.03	21.87	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#49	22.82	21.66	30.00	PASS
Band4	20MHz	QPSK	20050	50RB#50	22.02	20.86	30.00	PASS
Band4	20MHz	QPSK	20050	50RB#25	22.10	20.94	30.00	PASS
Band4	20MHz	QPSK	20050	50RB#0	22.08	20.92	30.00	PASS
Band4	20MHz	QPSK	20050	100RB#0	21.93	20.77	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#0	22.87	21.71	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#49	23.04	21.88	30.00	PASS



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Band4	20MHz	QPSK	20175	1RB#99	22.65	21.49	30.00	PASS
Band4	20MHz	QPSK	20175	50RB#25	22.10	20.94	30.00	PASS
Band4	20MHz	QPSK	20175	50RB#0	21.98	20.82	30.00	PASS
Band4	20MHz	QPSK	20175	50RB#50	22.04	20.88	30.00	PASS
Band4	20MHz	QPSK	20175	100RB#0	21.95	20.79	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#99	22.78	21.62	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#49	22.91	21.75	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#0	22.69	21.53	30.00	PASS
Band4	20MHz	QPSK	20300	50RB#0	21.84	20.68	30.00	PASS
Band4	20MHz	QPSK	20300	50RB#25	22.11	20.95	30.00	PASS
Band4	20MHz	QPSK	20300	50RB#50	21.85	20.69	30.00	PASS
Band4	20MHz	QPSK	20300	100RB#0	21.80	20.64	30.00	PASS
Band4	20MHz	64QAM	20050	1RB#99	20.97	19.81	30.00	PASS
Band4	20MHz	64QAM	20050	1RB#49	21.17	20.01	30.00	PASS
Band4	20MHz	64QAM	20050	1RB#0	20.99	19.83	30.00	PASS
Band4	20MHz	64QAM	20050	50RB#50	20.16	19.00	30.00	PASS
Band4	20MHz	64QAM	20050	50RB#25	20.14	18.98	30.00	PASS
Band4	20MHz	64QAM	20050	50RB#0	20.25	19.09	30.00	PASS
Band4	20MHz	64QAM	20050	100RB#0	20.04	18.88	30.00	PASS
Band4	20MHz	64QAM	20175	1RB#0	21.09	19.93	30.00	PASS
Band4	20MHz	64QAM	20175	1RB#49	21.55	20.39	30.00	PASS
Band4	20MHz	64QAM	20175	1RB#99	20.98	19.82	30.00	PASS
Band4	20MHz	64QAM	20175	50RB#50	20.06	18.90	30.00	PASS
Band4	20MHz	64QAM	20175	50RB#25	20.04	18.88	30.00	PASS
Band4	20MHz	64QAM	20175	50RB#0	20.05	18.89	30.00	PASS
Band4	20MHz	64QAM	20175	100RB#0	20.04	18.88	30.00	PASS
Band4	20MHz	64QAM	20300	1RB#0	21.10	19.94	30.00	PASS
Band4	20MHz	64QAM	20300	1RB#99	20.97	19.81	30.00	PASS
Band4	20MHz	64QAM	20300	1RB#49	21.21	20.05	30.00	PASS
Band4	20MHz	64QAM	20300	50RB#25	19.83	18.67	30.00	PASS
Band4	20MHz	64QAM	20300	50RB#50	20.08	18.92	30.00	PASS
Band4	20MHz	64QAM	20300	50RB#0	20.00	18.84	30.00	PASS
Band4	20MHz	64QAM	20300	100RB#0	19.96	18.80	30.00	PASS



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Band4	20MHz	16QAM	20050	1RB#49	21.95	20.79	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#99	22.10	20.94	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#0	21.85	20.69	30.00	PASS
Band4	20MHz	16QAM	20050	50RB#0	21.05	19.89	30.00	PASS
Band4	20MHz	16QAM	20050	50RB#50	21.02	19.86	30.00	PASS
Band4	20MHz	16QAM	20050	50RB#25	21.17	20.01	30.00	PASS
Band4	20MHz	16QAM	20050	100RB#0	20.96	19.80	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#49	21.93	20.77	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#0	22.43	21.27	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#99	21.75	20.59	30.00	PASS
Band4	20MHz	16QAM	20175	50RB#0	20.93	19.77	30.00	PASS
Band4	20MHz	16QAM	20175	50RB#25	20.97	19.81	30.00	PASS
Band4	20MHz	16QAM	20175	50RB#50	20.97	19.81	30.00	PASS
Band4	20MHz	16QAM	20175	100RB#0	20.92	19.76	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#49	21.94	20.78	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#0	21.85	20.69	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#99	22.07	20.91	30.00	PASS
Band4	20MHz	16QAM	20300	50RB#0	20.85	19.69	30.00	PASS
Band4	20MHz	16QAM	20300	50RB#50	21.02	19.86	30.00	PASS
Band4	20MHz	16QAM	20300	50RB#25	20.90	19.74	30.00	PASS
Band4	20MHz	16QAM	20300	100RB#0	20.92	19.76	30.00	PASS

Remark:

a: For getting the EIRP (Efficient Isotropic Radiated Power), the following formula should be taken to calculate it,

ERP [dBm] = Conducted Power [dBm] + Gain [dBd]

EIRP [dBm] = Conducted Power [dBm] + Gain [dBi]



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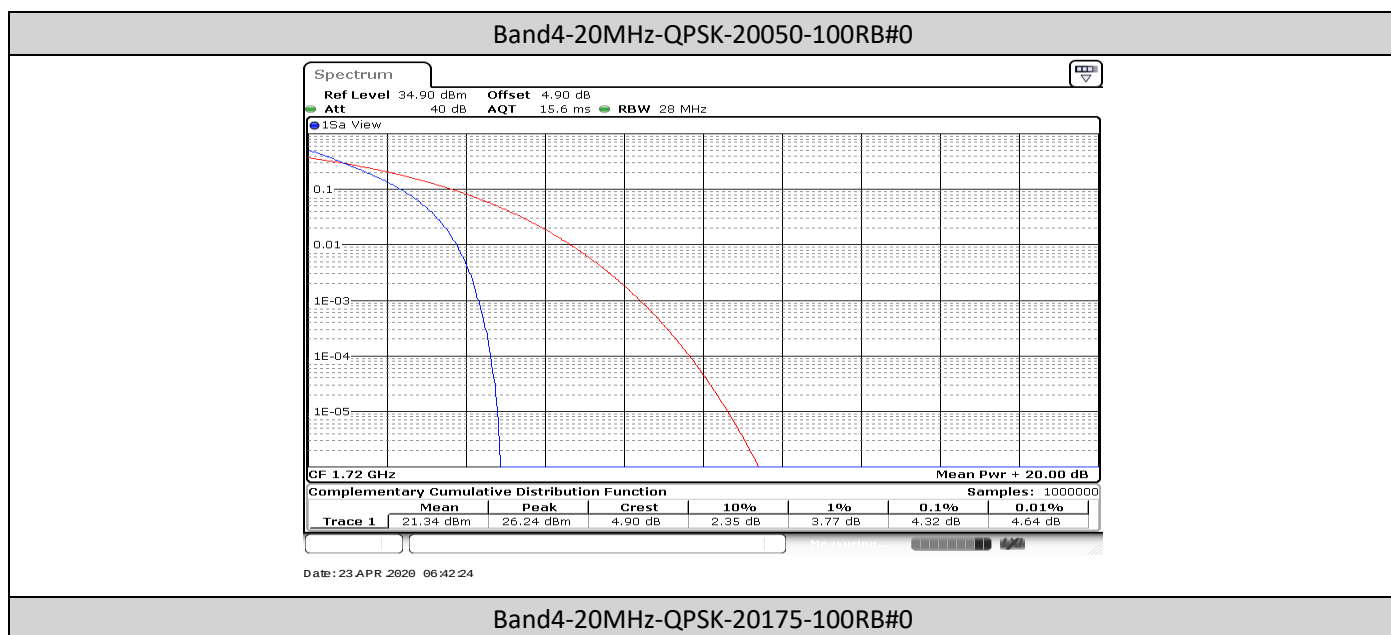


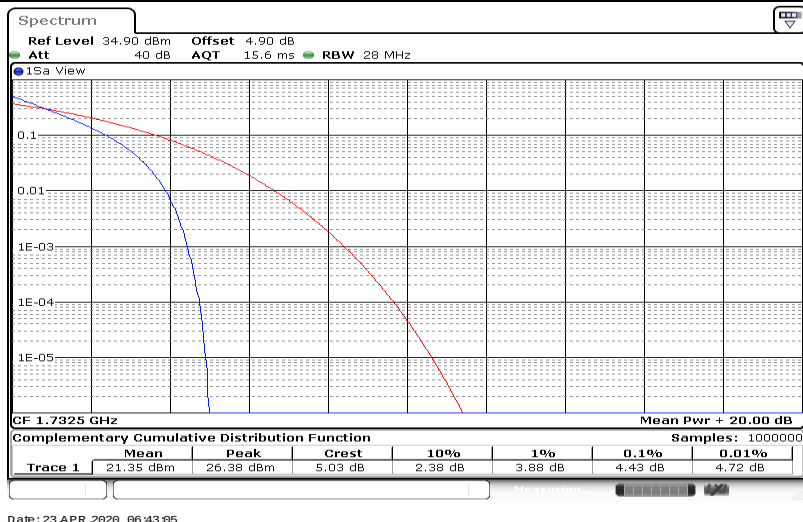
2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

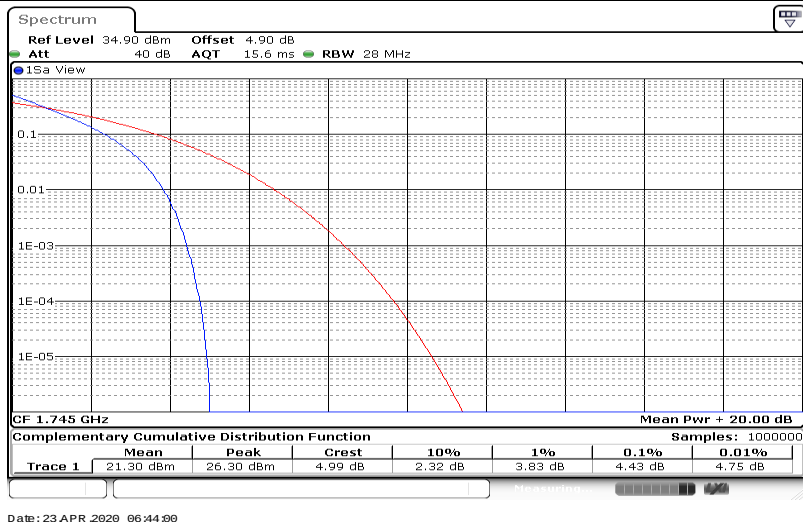
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band4	20MHz	QPSK	20050	100RB#0	4.32	13.00	PASS
Band4	20MHz	QPSK	20175	100RB#0	4.43	13.00	PASS
Band4	20MHz	QPSK	20300	100RB#0	4.43	13.00	PASS
Band4	20MHz	64QAM	20050	100RB#0	5.16	13.00	PASS
Band4	20MHz	64QAM	20175	100RB#0	5.33	13.00	PASS
Band4	20MHz	64QAM	20300	100RB#0	5.25	13.00	PASS
Band4	20MHz	16QAM	20050	100RB#0	5.16	13.00	PASS
Band4	20MHz	16QAM	20175	100RB#0	5.30	13.00	PASS
Band4	20MHz	16QAM	20300	100RB#0	5.28	13.00	PASS

2.2. Test Plots





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

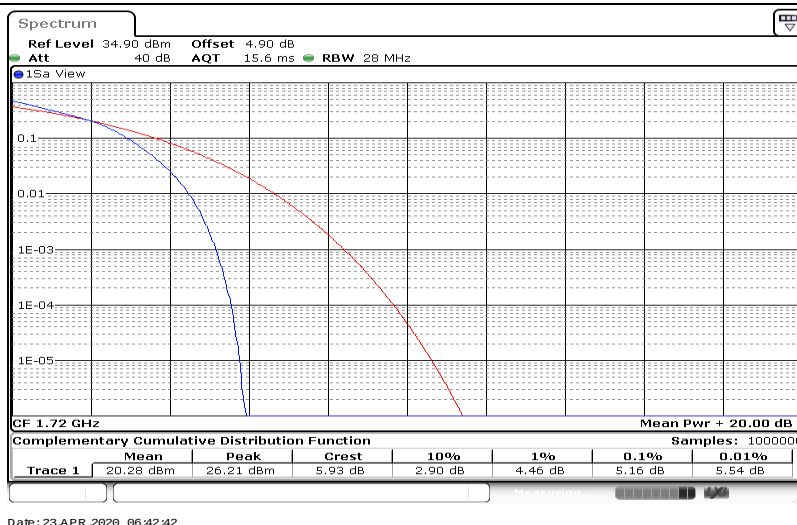


Band4-20MHz-64QAM-20050-100RB#0



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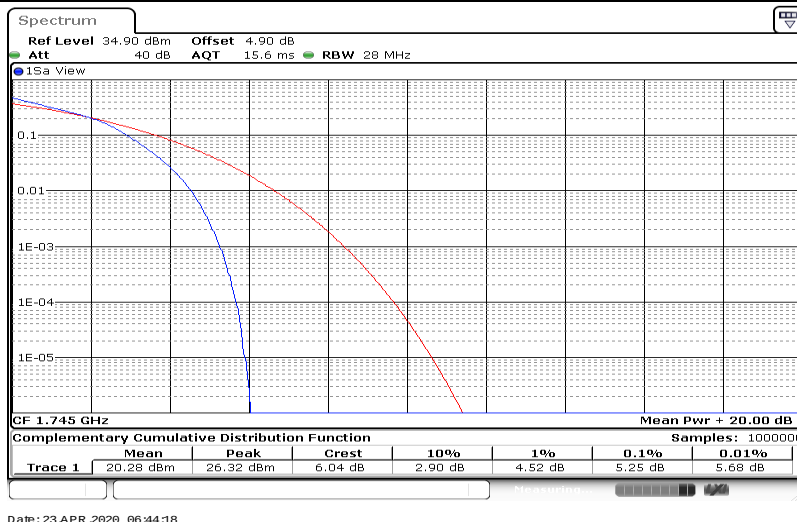


Band4-20MHz-64QAM-20175-100RB#0



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





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



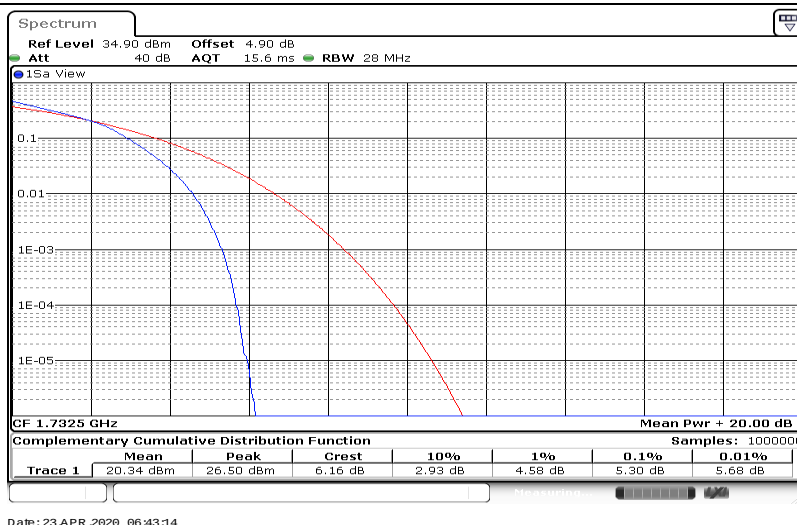
Band4-20MHz-16QAM-20175-100RB#0



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

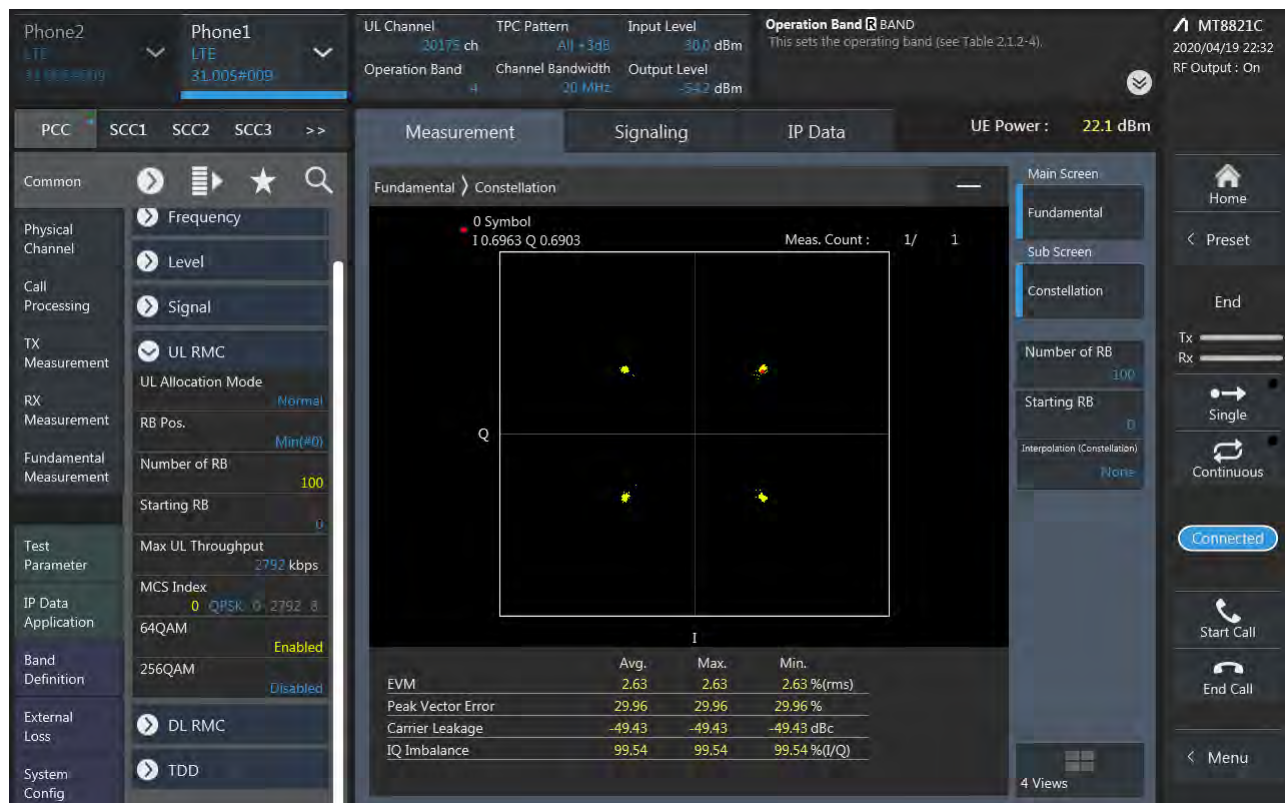




3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 20MHz

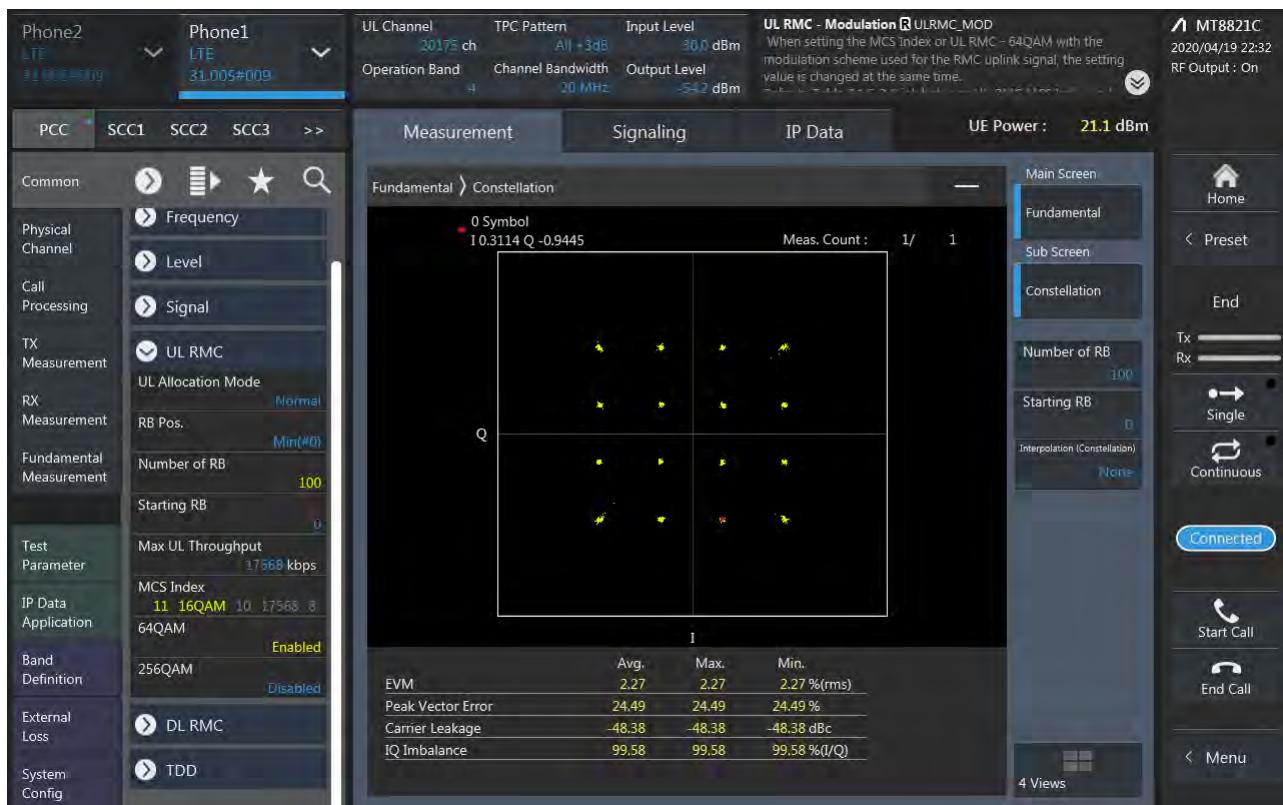
3.1.1. Test Channel = MCH





3.2. Test Mode = LTE /TM2 20MHz

3.2.1. Test Channel = MCH



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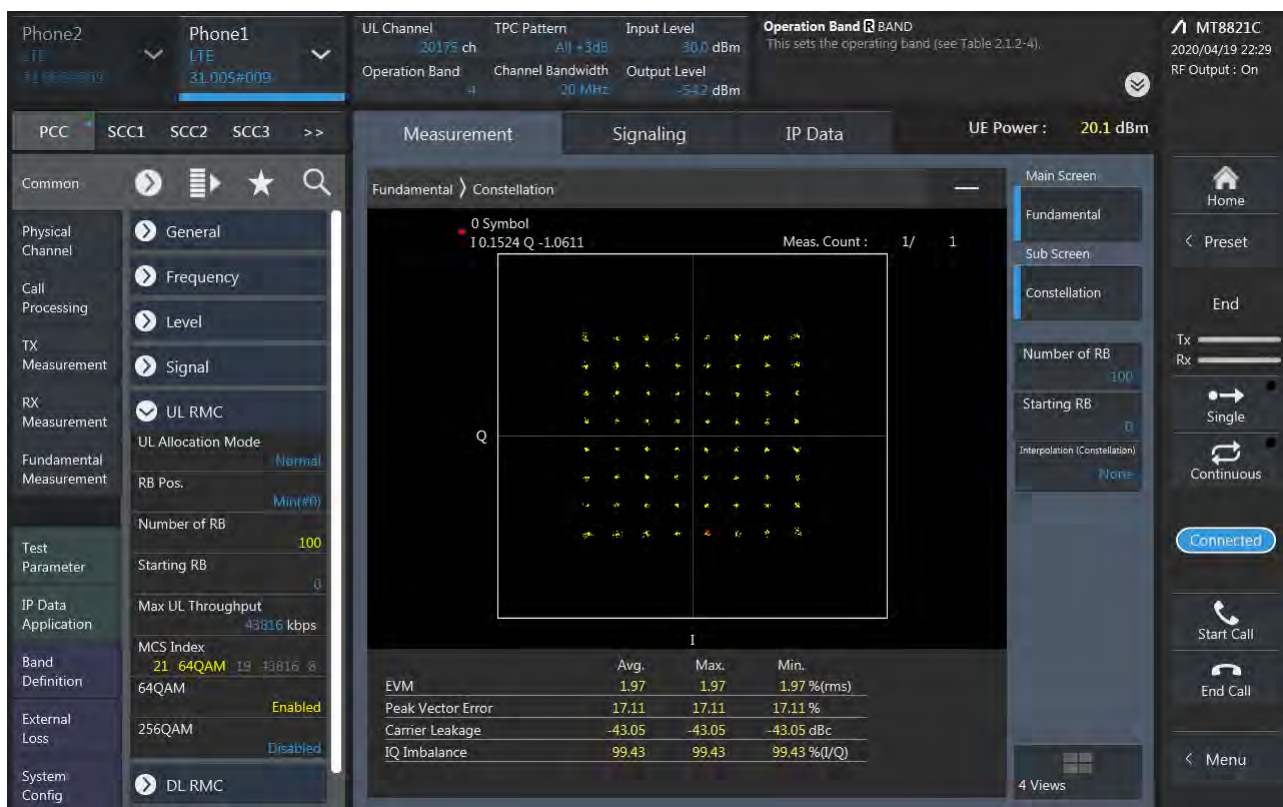
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3.3. Test Mode = LTE /TM3 20MHz

3.3.1. Test Channel = MCH



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4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band4	1.4MHz	QPSK	19957	6RB#0	1.094	1.305	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	1.091	1.269	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	1.094	1.299	PASS
Band4	1.4MHz	64QAM	19957	6RB#0	1.091	1.272	PASS
Band4	1.4MHz	64QAM	20175	6RB#0	1.085	1.281	PASS
Band4	1.4MHz	64QAM	20393	6RB#0	1.094	1.269	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	1.091	1.299	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	1.097	1.260	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	1.091	1.308	PASS
Band4	3MHz	QPSK	19965	15RB#0	2.691	2.940	PASS
Band4	3MHz	QPSK	20175	15RB#0	2.691	2.898	PASS
Band4	3MHz	QPSK	20385	15RB#0	2.691	2.886	PASS
Band4	3MHz	64QAM	19965	15RB#0	2.679	2.868	PASS
Band4	3MHz	64QAM	20175	15RB#0	2.685	2.862	PASS
Band4	3MHz	64QAM	20385	15RB#0	2.673	2.868	PASS
Band4	3MHz	16QAM	19965	15RB#0	2.679	2.886	PASS
Band4	3MHz	16QAM	20175	15RB#0	2.679	2.892	PASS
Band4	3MHz	16QAM	20385	15RB#0	2.679	2.868	PASS
Band4	5MHz	QPSK	19975	25RB#0	4.486	4.750	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.476	4.750	PASS
Band4	5MHz	QPSK	20375	25RB#0	4.476	4.950	PASS
Band4	5MHz	64QAM	19975	25RB#0	4.476	4.780	PASS
Band4	5MHz	64QAM	20175	25RB#0	4.476	4.720	PASS
Band4	5MHz	64QAM	20375	25RB#0	4.466	4.730	PASS
Band4	5MHz	16QAM	19975	25RB#0	4.486	4.800	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.486	4.750	PASS
Band4	5MHz	16QAM	20375	25RB#0	4.496	4.740	PASS
Band4	10MHz	QPSK	20000	50RB#0	8.991	9.600	PASS
Band4	10MHz	QPSK	20175	50RB#0	8.971	9.560	PASS
Band4	10MHz	QPSK	20350	50RB#0	8.931	9.460	PASS
Band4	10MHz	64QAM	20000	50RB#0	8.931	9.440	PASS



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Band4	10MHz	64QAM	20175	50RB#0	8.931	9.360	PASS
Band4	10MHz	64QAM	20350	50RB#0	8.951	9.440	PASS
Band4	10MHz	16QAM	20000	50RB#0	8.971	9.560	PASS
Band4	10MHz	16QAM	20175	50RB#0	8.951	9.480	PASS
Band4	10MHz	16QAM	20350	50RB#0	8.951	9.460	PASS
Band4	15MHz	QPSK	20025	75RB#0	13.606	15.450	PASS
Band4	15MHz	QPSK	20175	75RB#0	13.606	14.520	PASS
Band4	15MHz	QPSK	20325	75RB#0	13.576	14.580	PASS
Band4	15MHz	64QAM	20025	75RB#0	13.576	14.430	PASS
Band4	15MHz	64QAM	20175	75RB#0	13.576	14.520	PASS
Band4	15MHz	64QAM	20325	75RB#0	13.546	14.460	PASS
Band4	15MHz	16QAM	20025	75RB#0	13.636	14.700	PASS
Band4	15MHz	16QAM	20175	75RB#0	13.606	14.610	PASS
Band4	15MHz	16QAM	20325	75RB#0	13.487	14.760	PASS
Band4	20MHz	QPSK	20050	100RB#0	18.062	19.200	PASS
Band4	20MHz	QPSK	20175	100RB#0	18.062	19.200	PASS
Band4	20MHz	QPSK	20300	100RB#0	18.102	19.160	PASS
Band4	20MHz	64QAM	20050	100RB#0	18.022	18.960	PASS
Band4	20MHz	64QAM	20175	100RB#0	18.102	19.000	PASS
Band4	20MHz	64QAM	20300	100RB#0	18.022	18.960	PASS
Band4	20MHz	16QAM	20050	100RB#0	18.062	19.080	PASS
Band4	20MHz	16QAM	20175	100RB#0	18.022	19.120	PASS
Band4	20MHz	16QAM	20300	100RB#0	18.062	19.040	PASS



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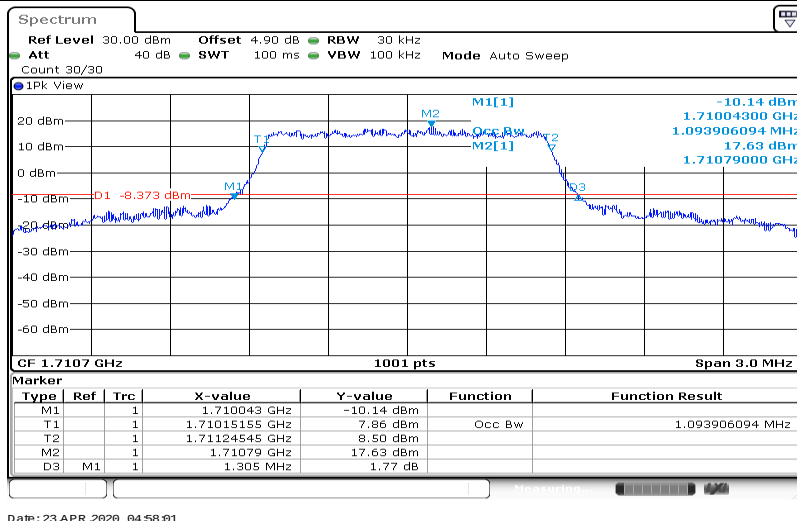
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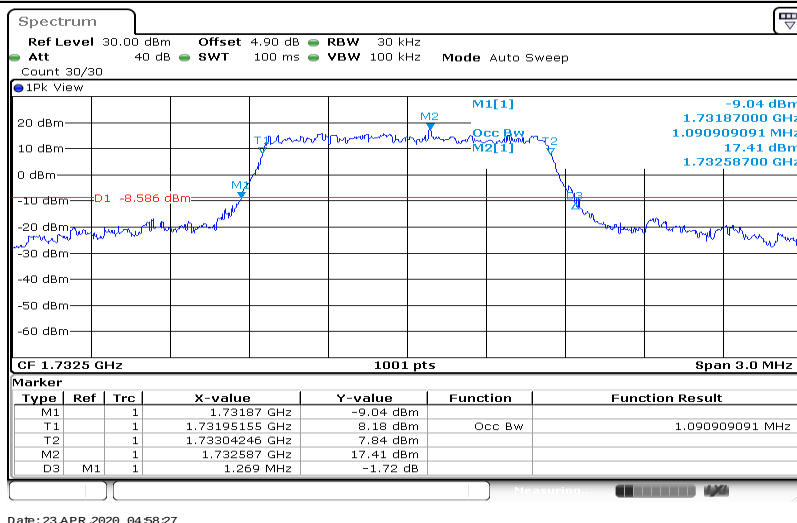


4.2. Test Plots

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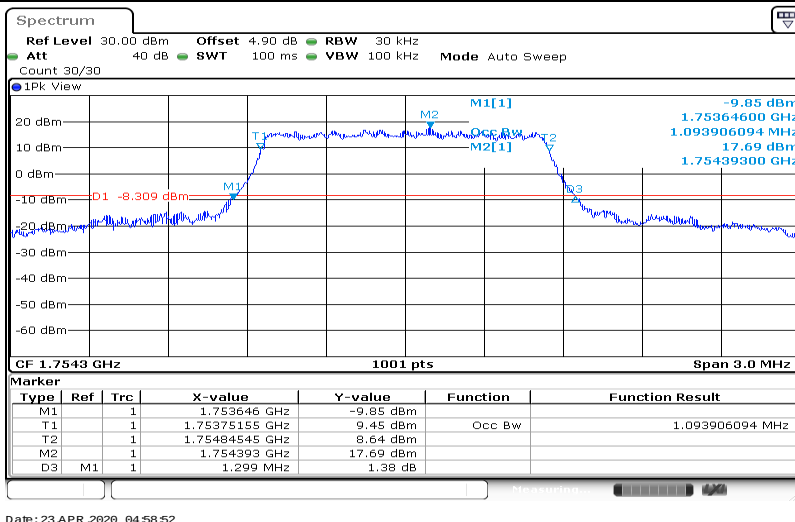


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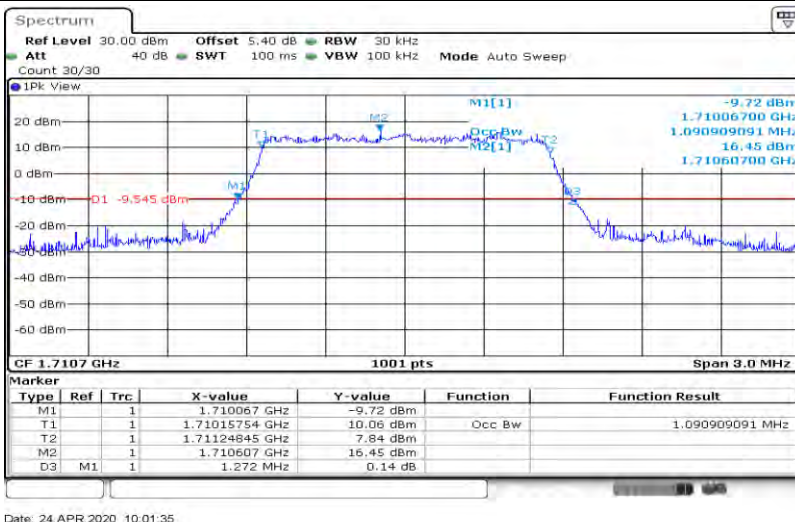


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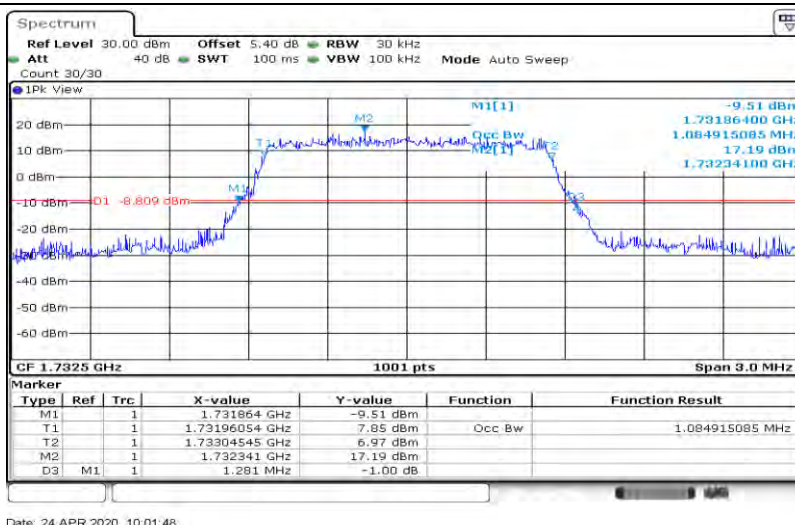


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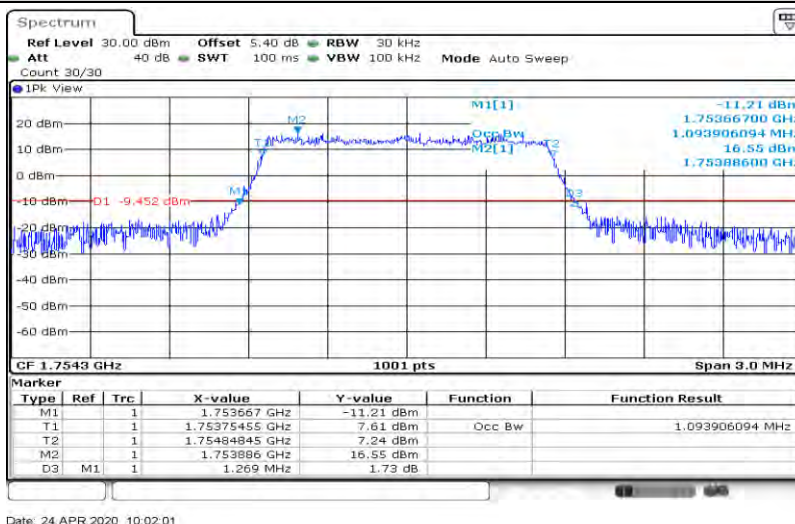


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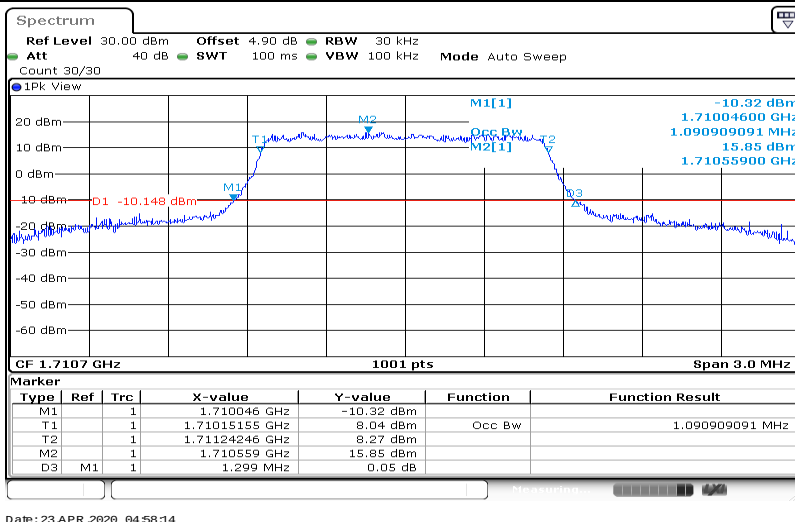
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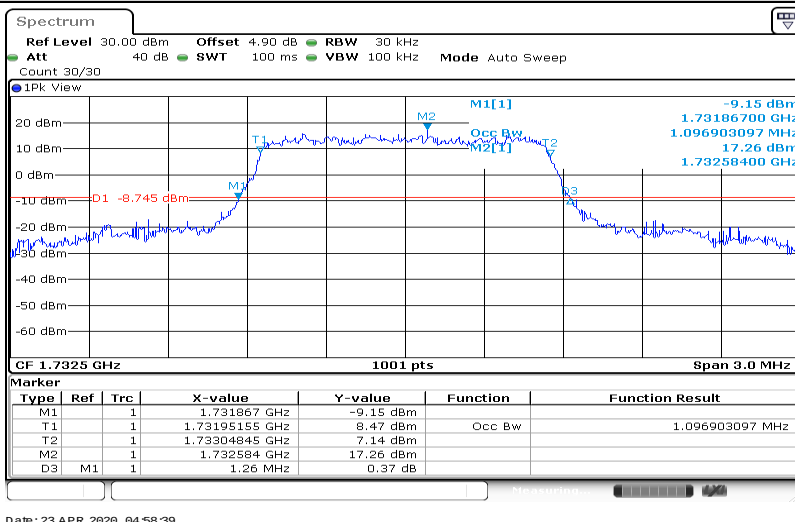
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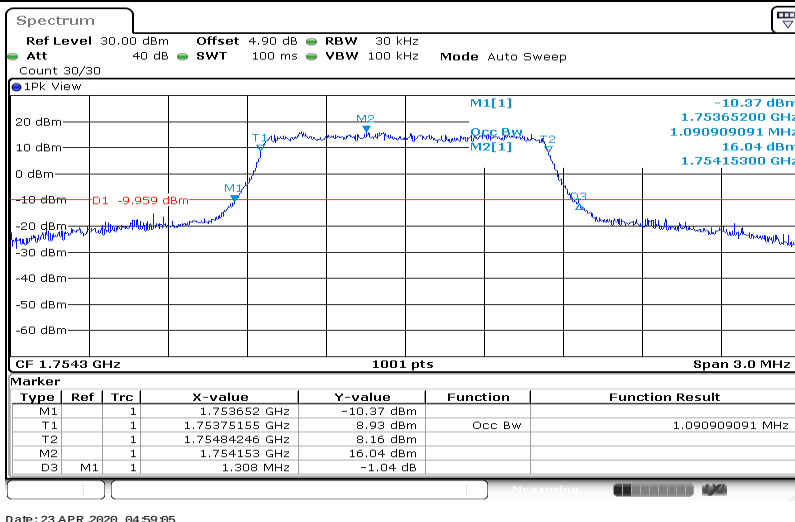


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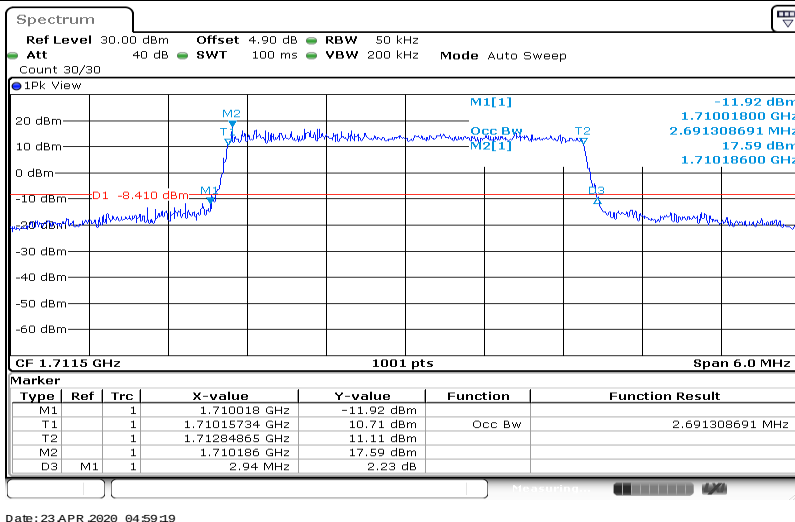


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Band4-3MHz-QPSK-19965-15RB#0-2.691

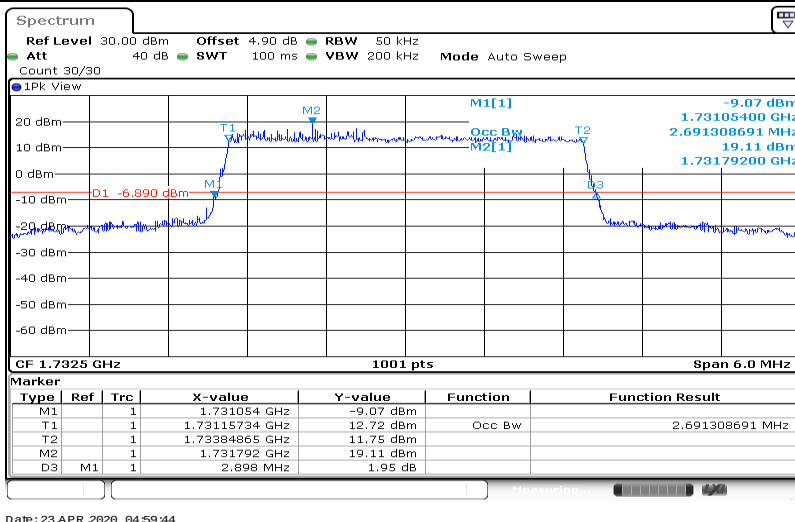


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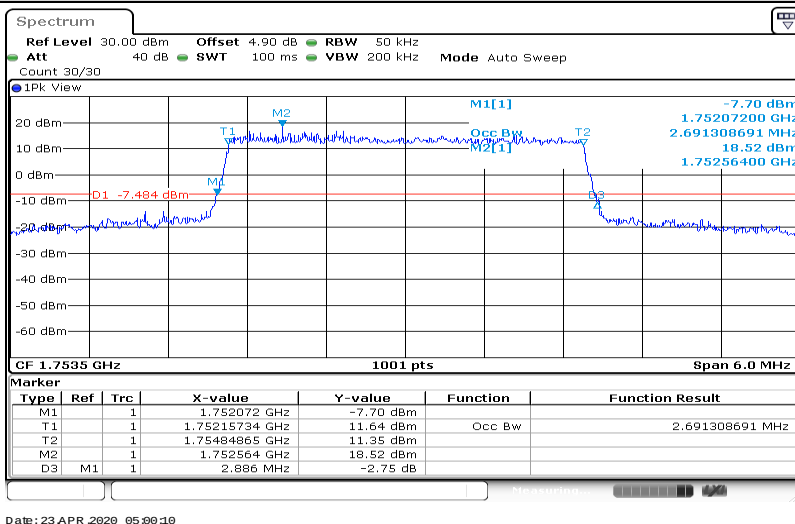


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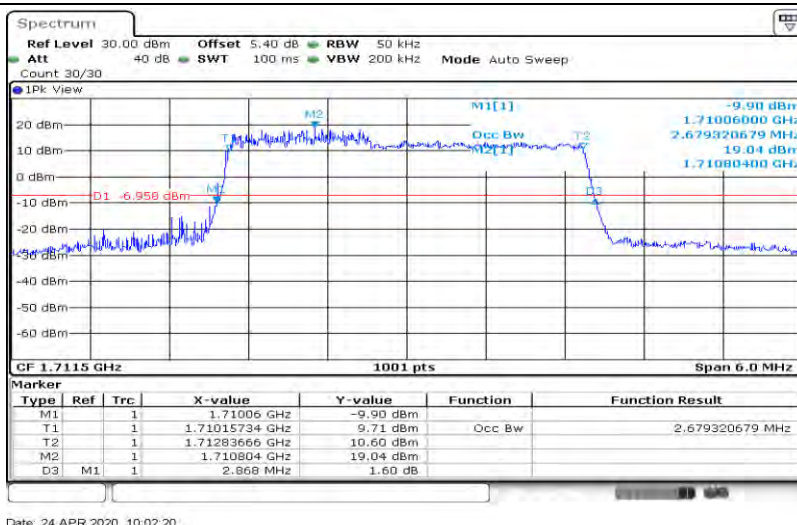


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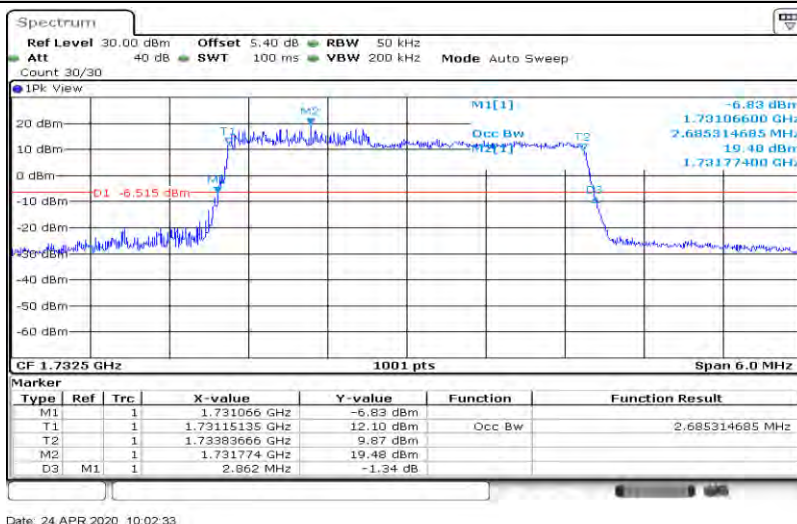


Band4-3MHz-64QAM-19965-15RB#0-2.679



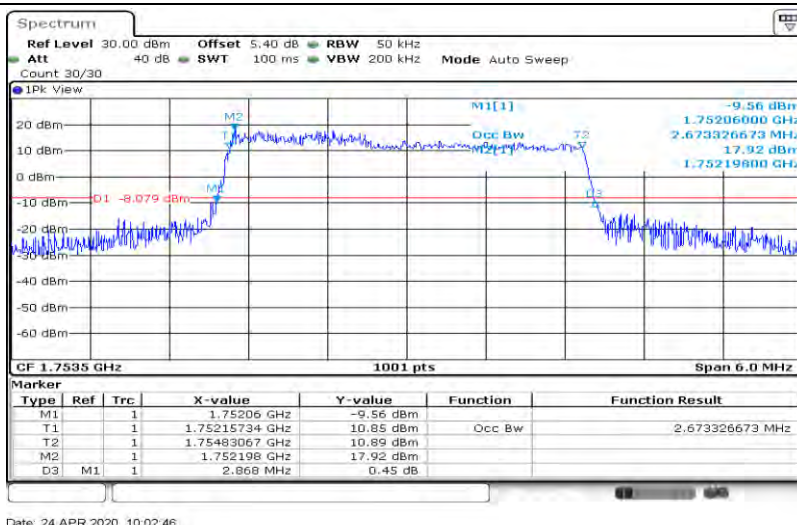


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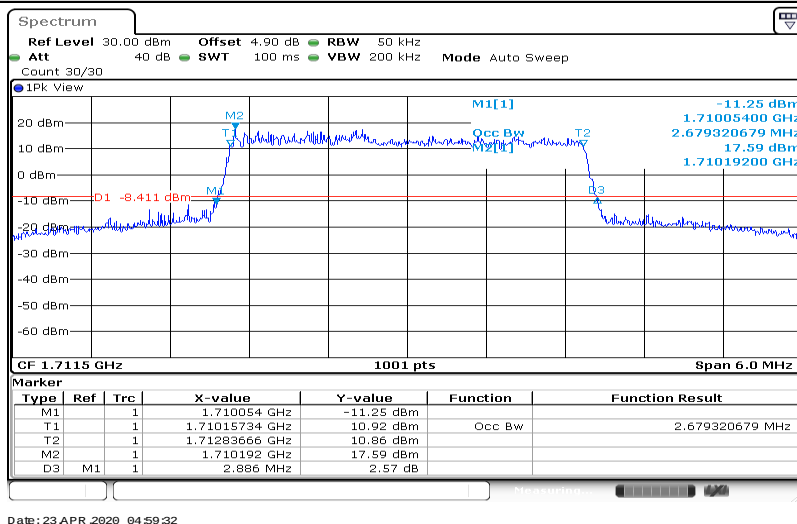


Band4-3MHz-64QAM-20385-15RB#0-2.673





Band4-3MHz-16QAM-19965-15RB#0-2.679

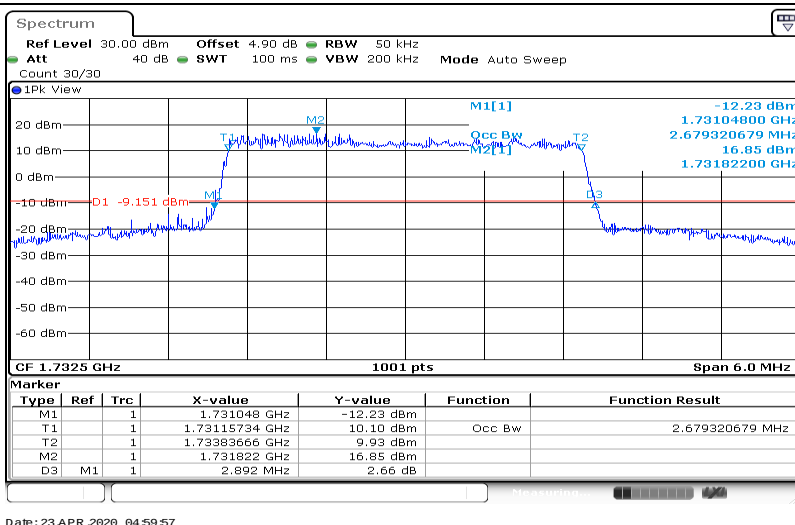


Band4-3MHz-16QAM-20175-15RB#0-2.679

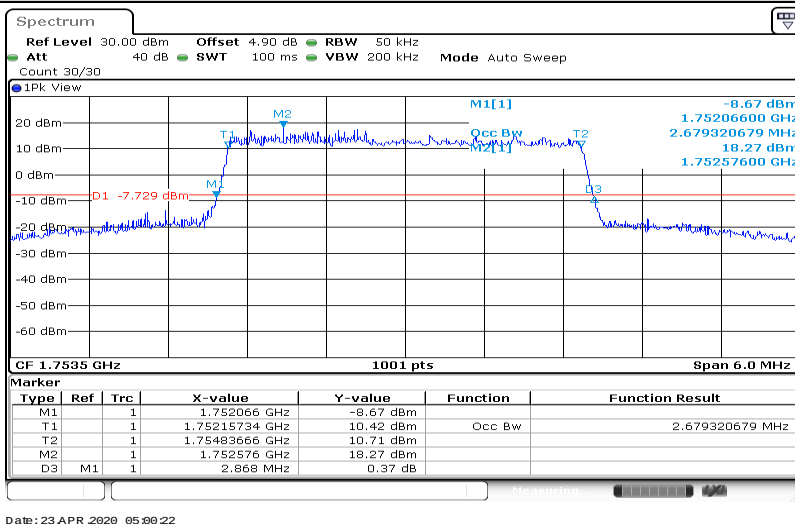


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Band4-3MHz-16OAM-20385-15RB#0-2.679



Band4-5MHz-QPSK-19975-25RB#0-4.486

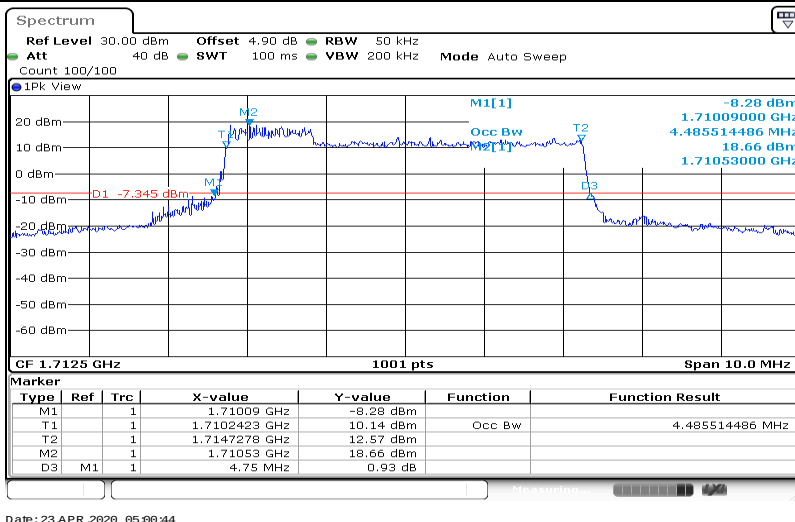


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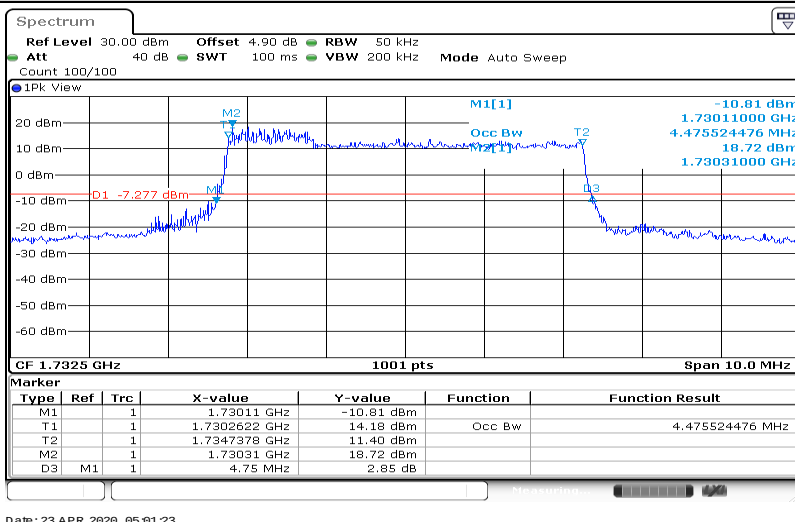
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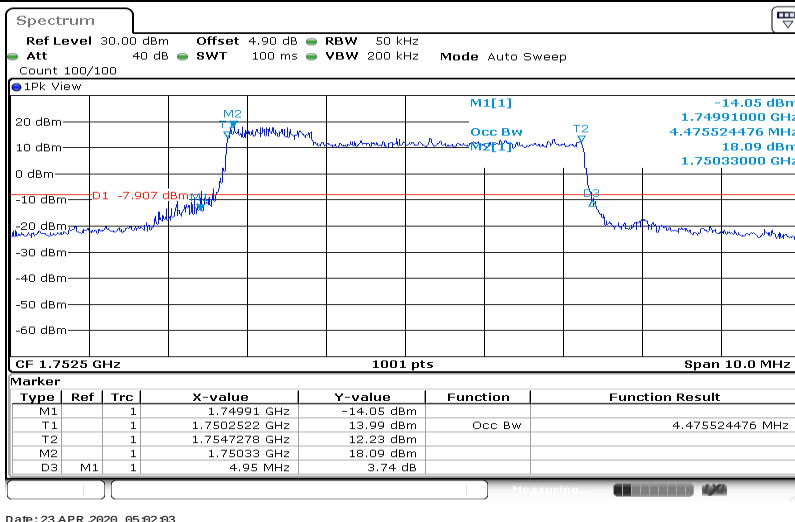


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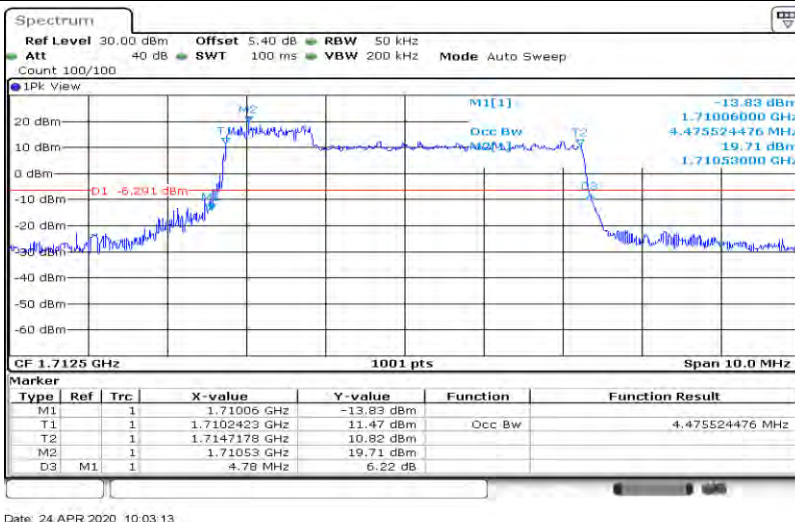


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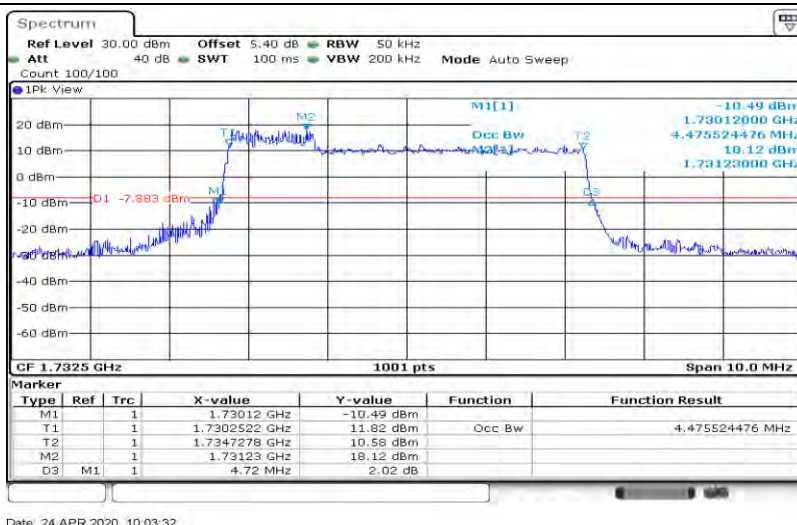


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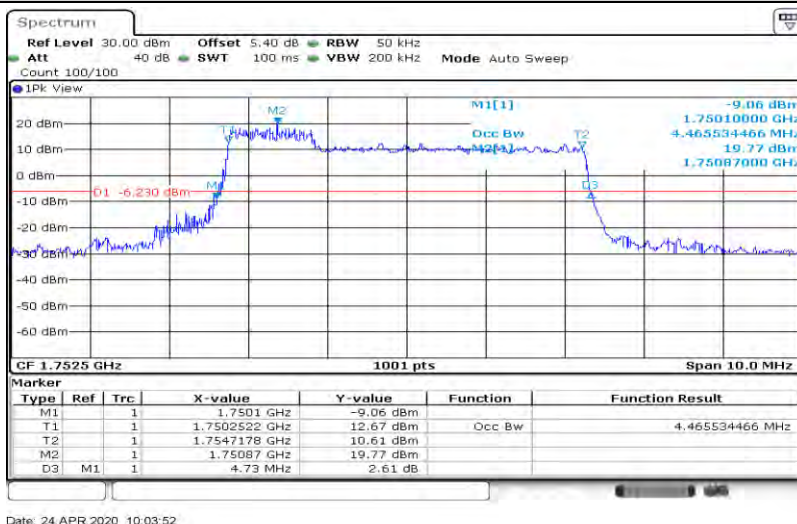


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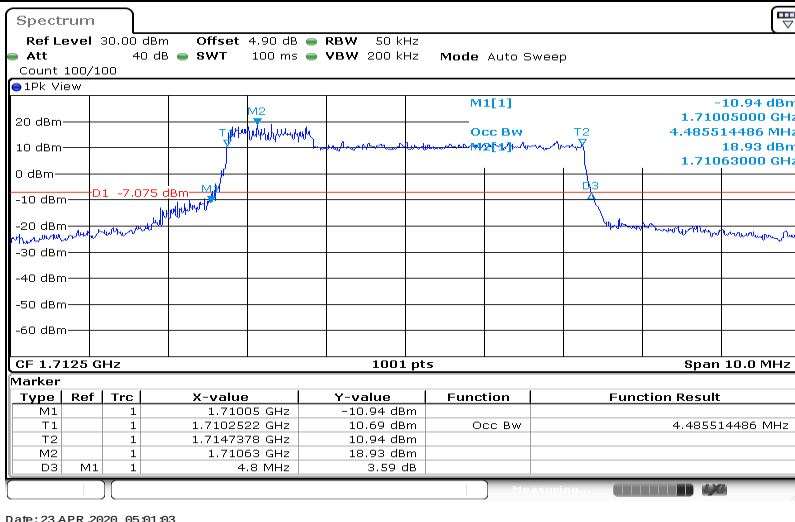


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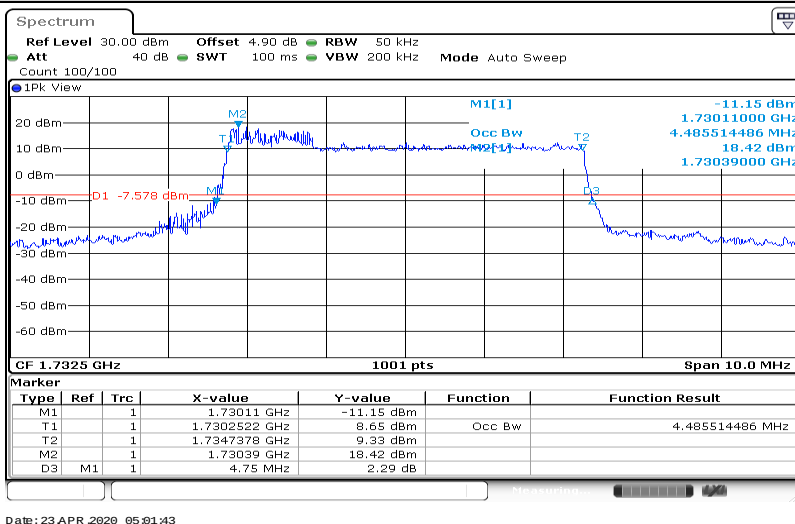


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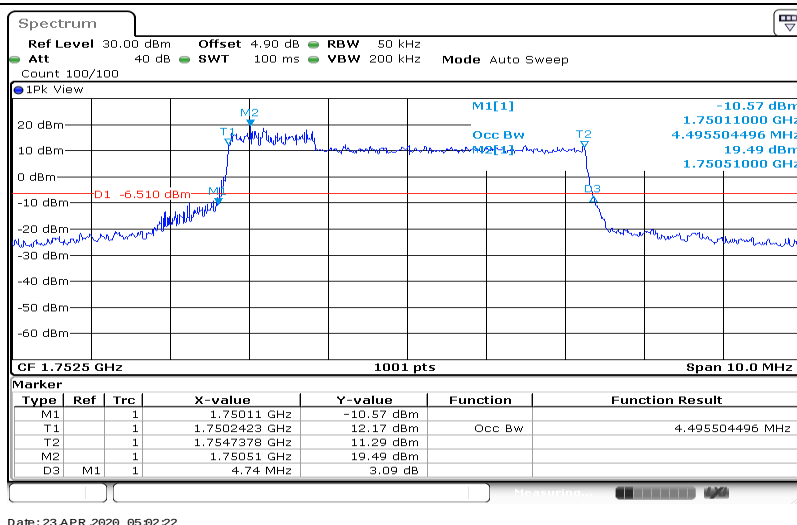


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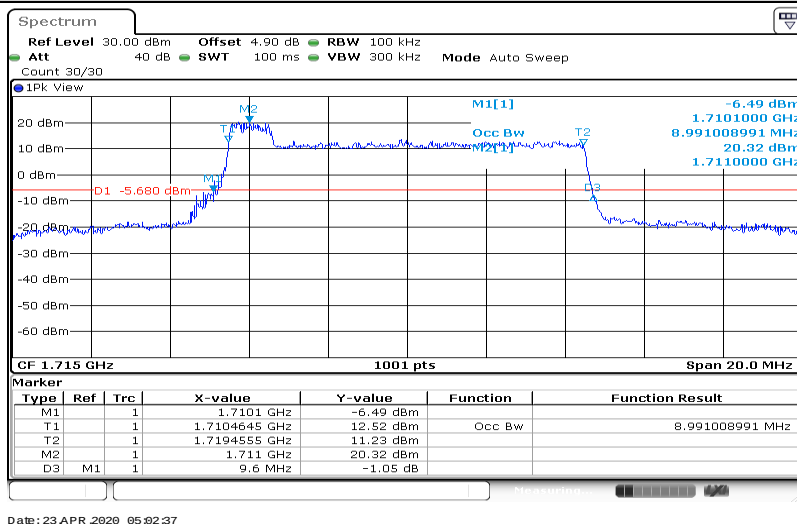


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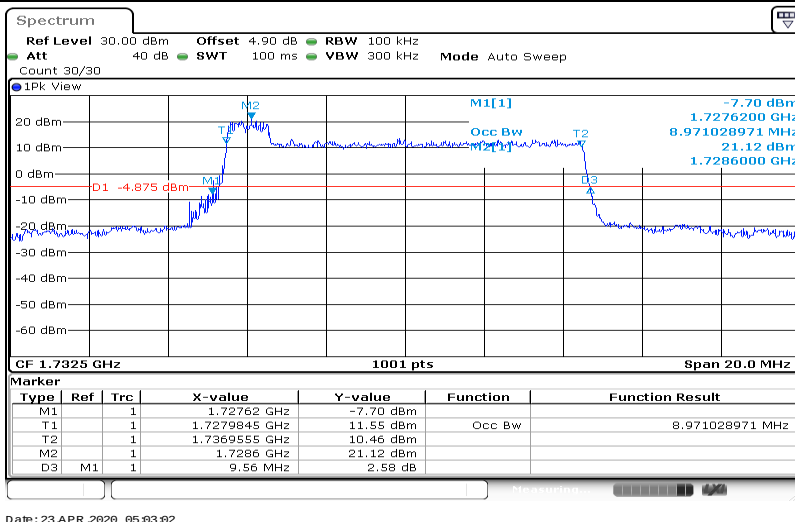


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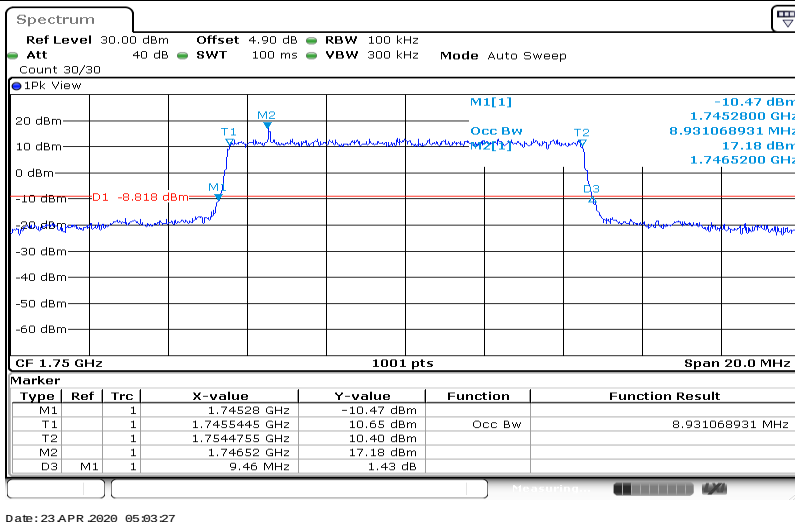


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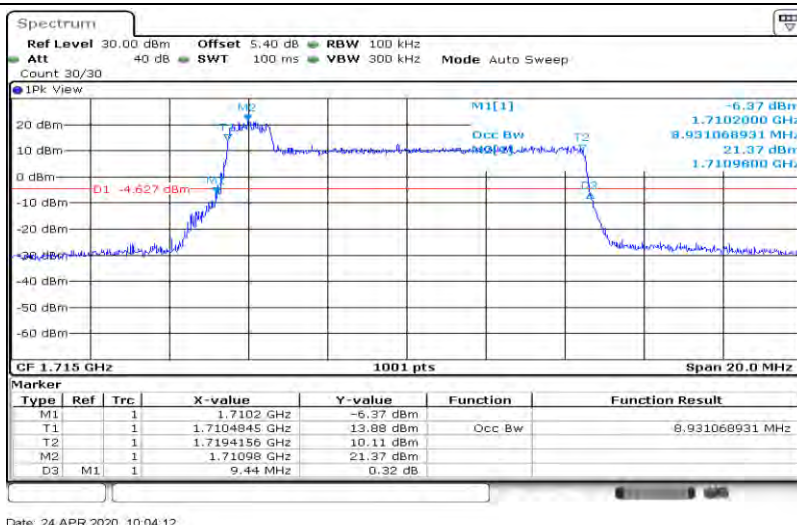


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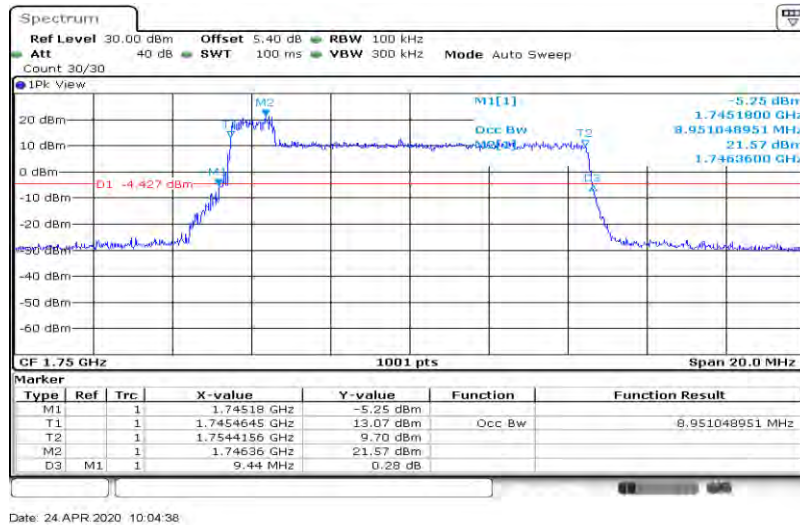


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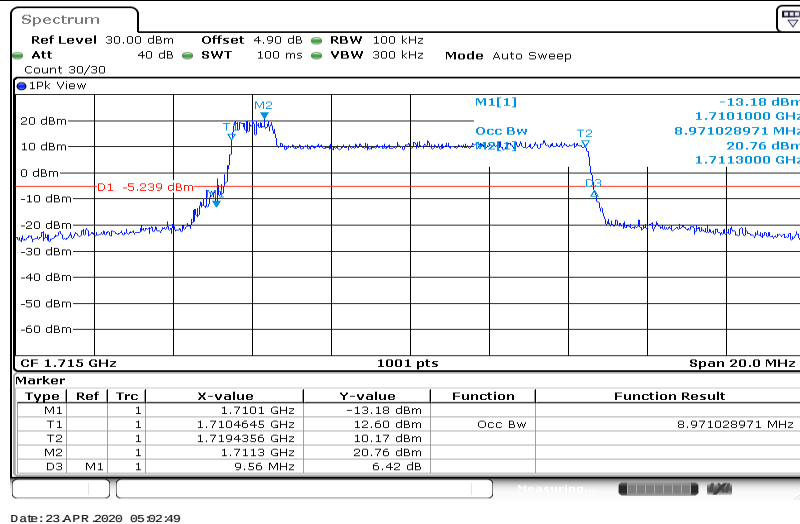


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Band4-10MHz-16QAM-20000-50RB#0-8.971

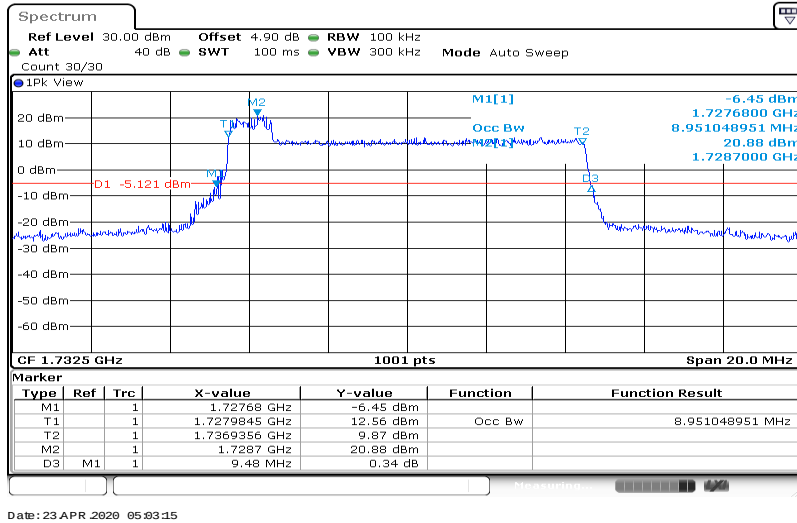


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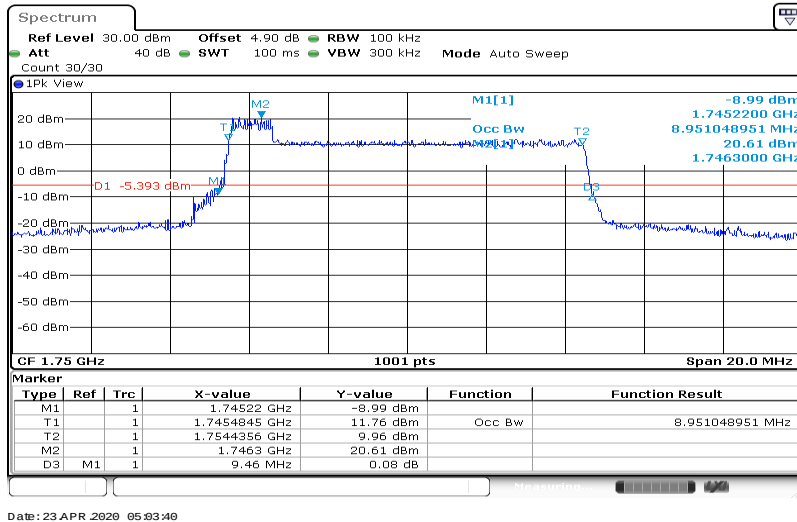


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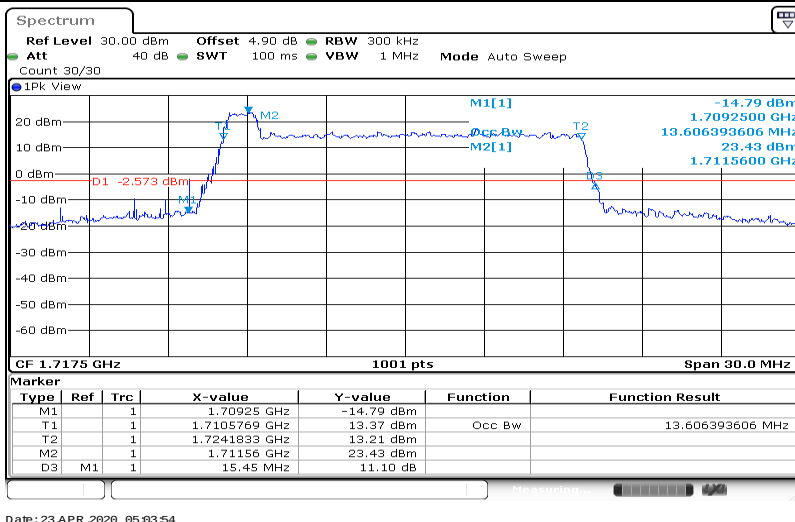


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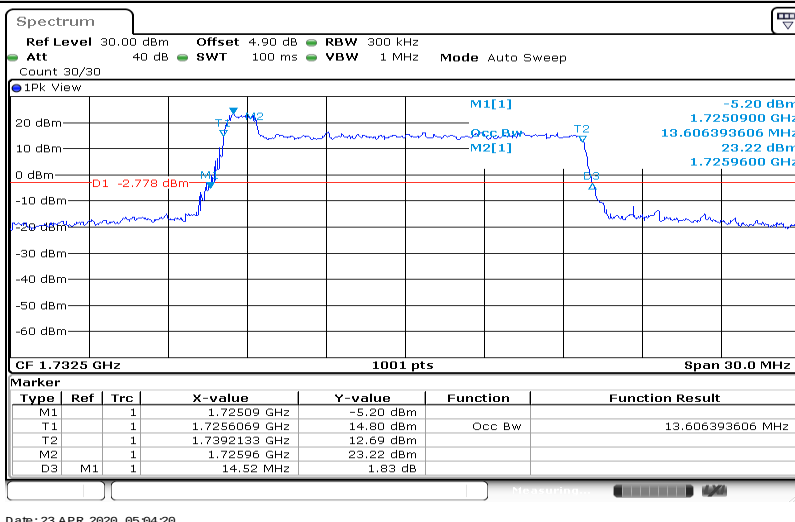


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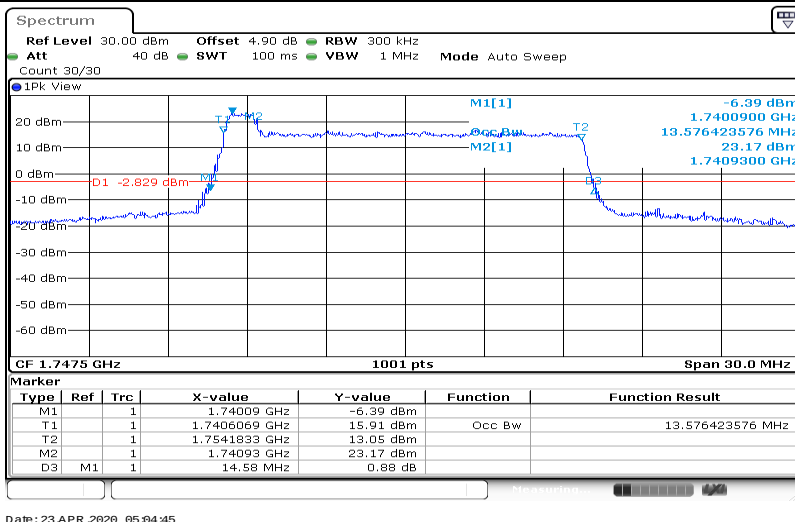


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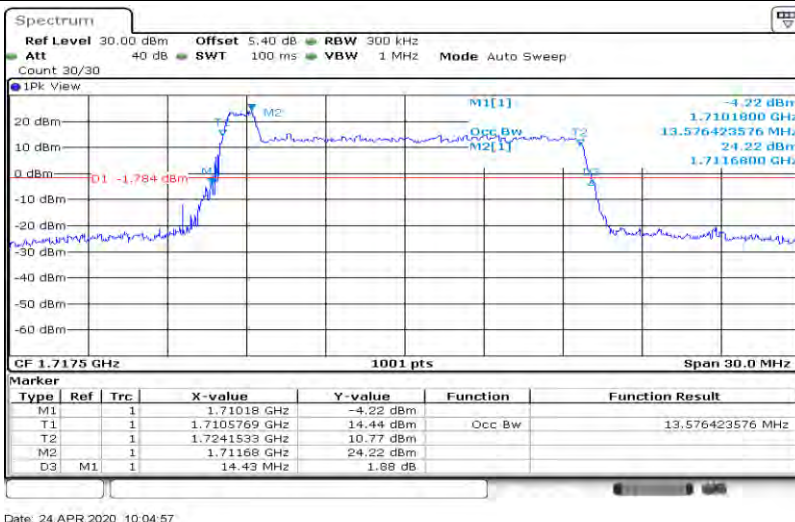


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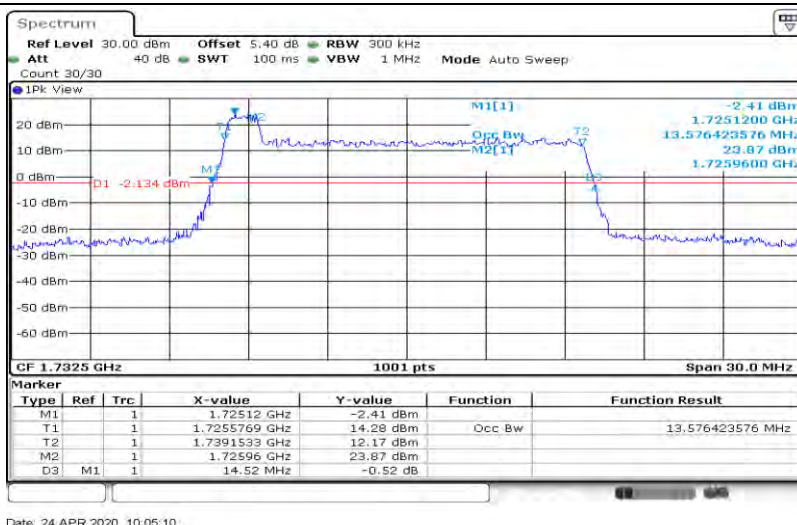


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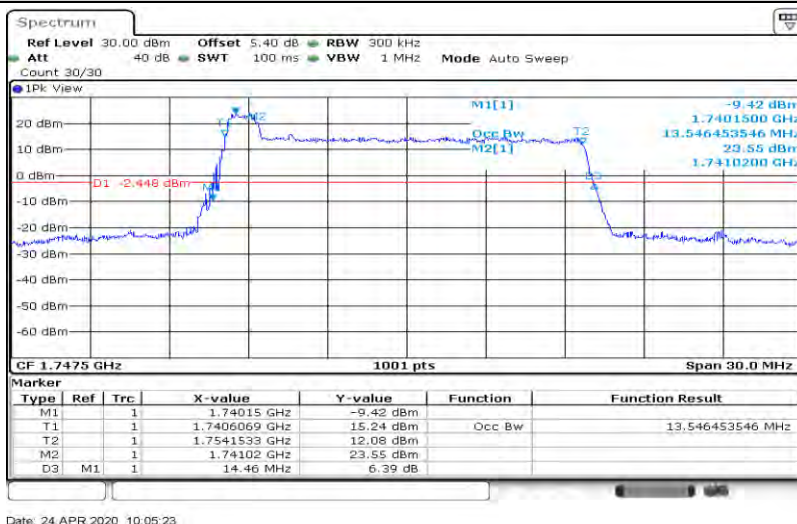


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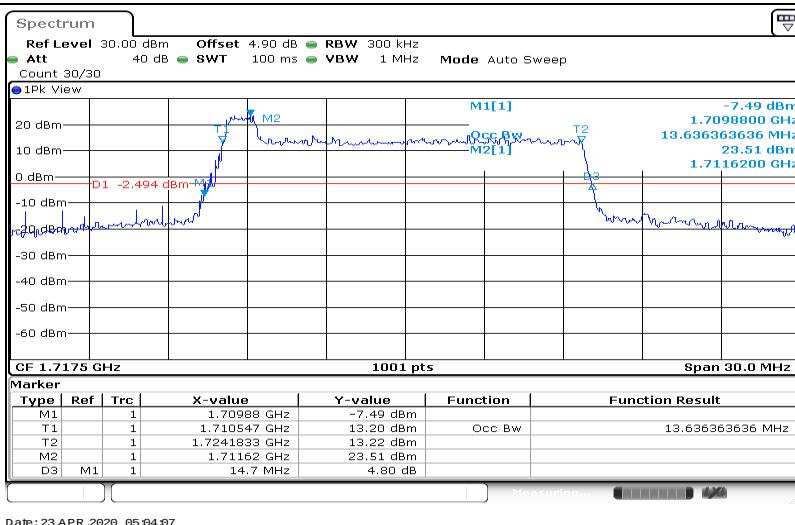


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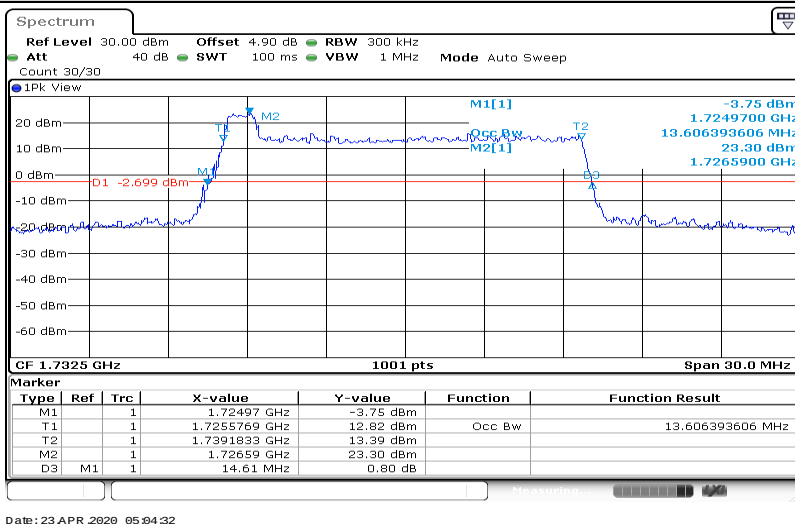


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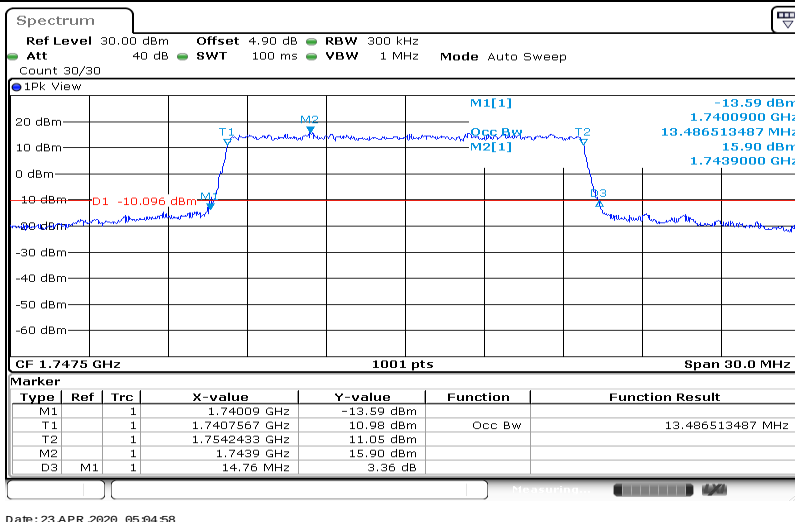


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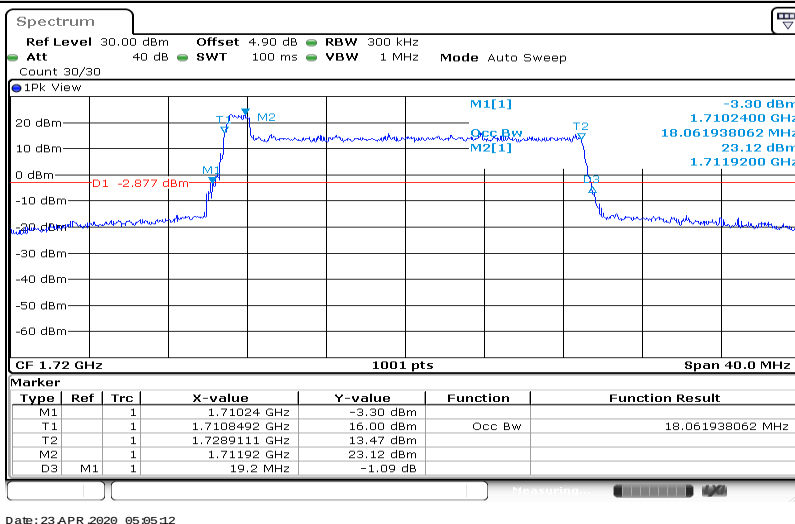


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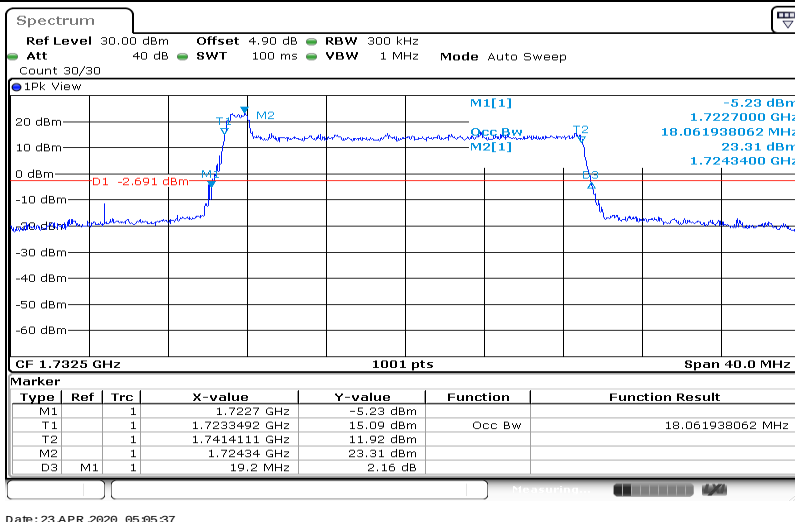


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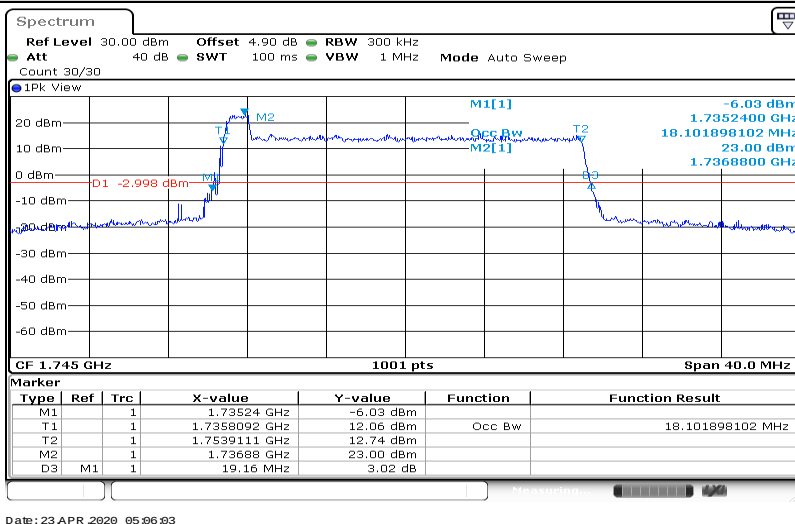


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Band4-20MHz-QPSK-20300-100RB#0-18.102

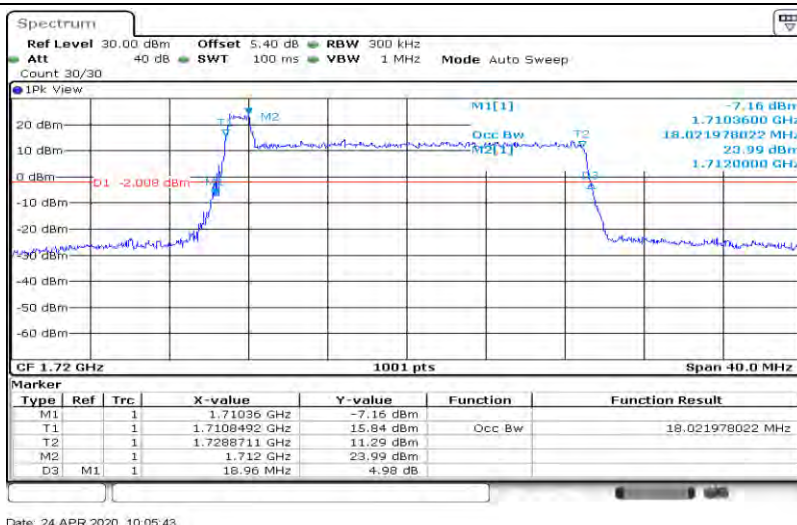


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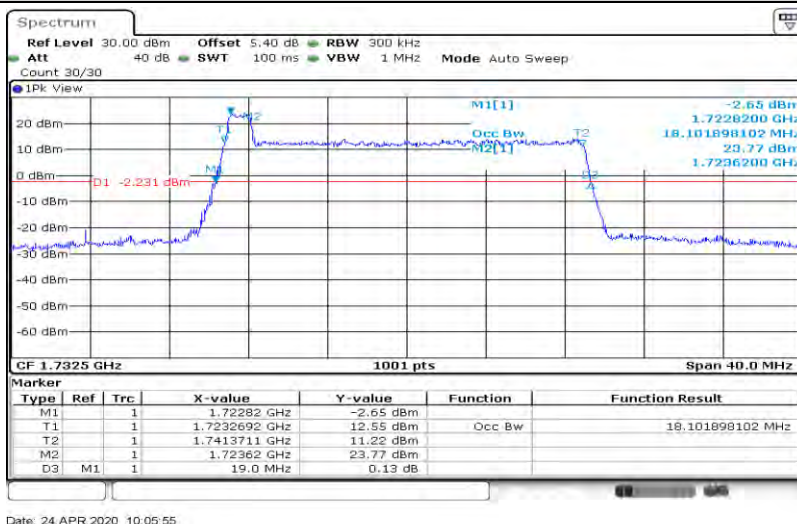


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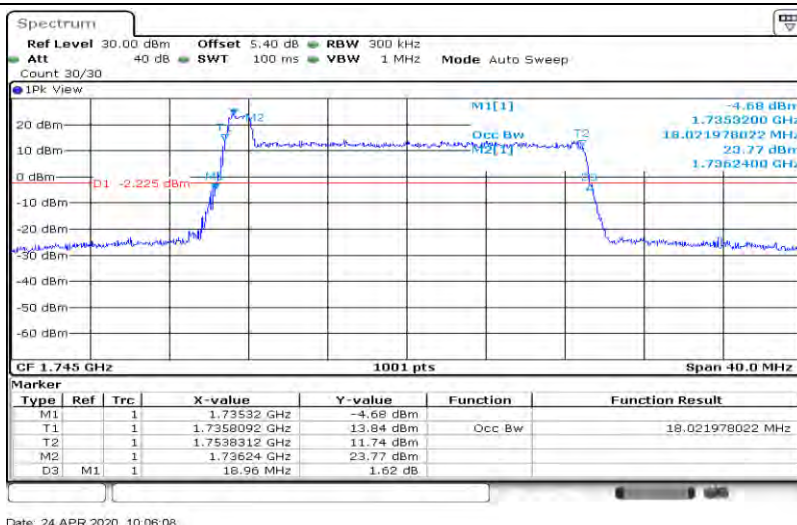


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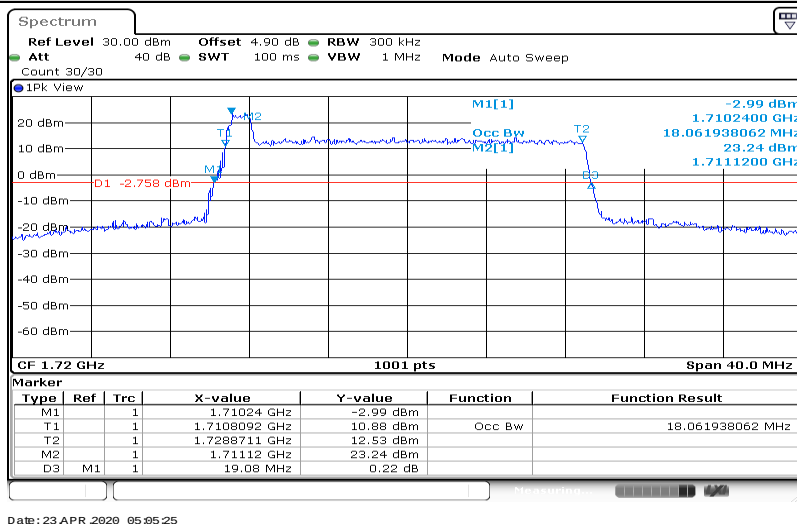


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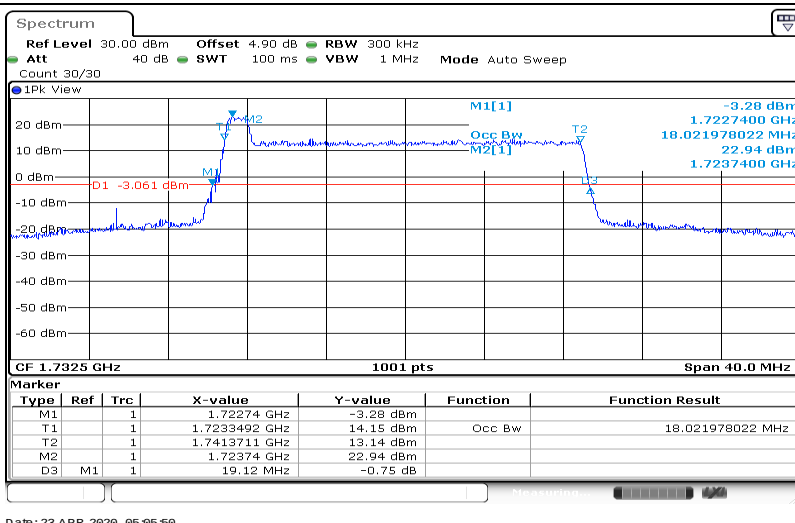


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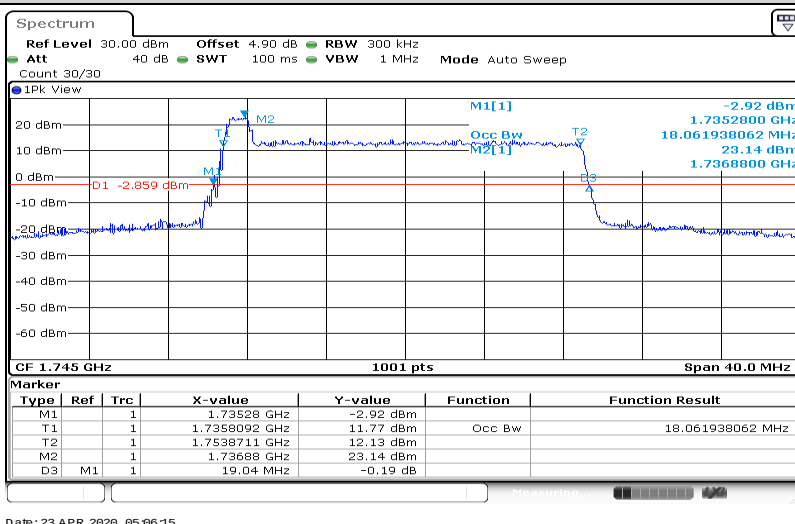


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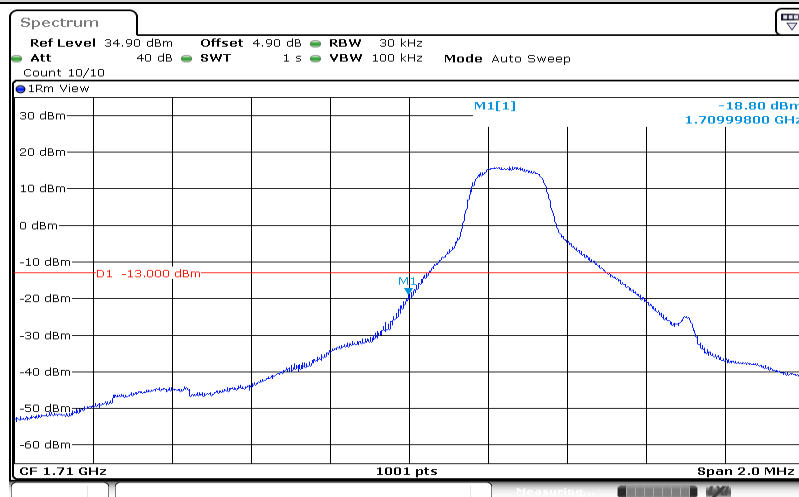




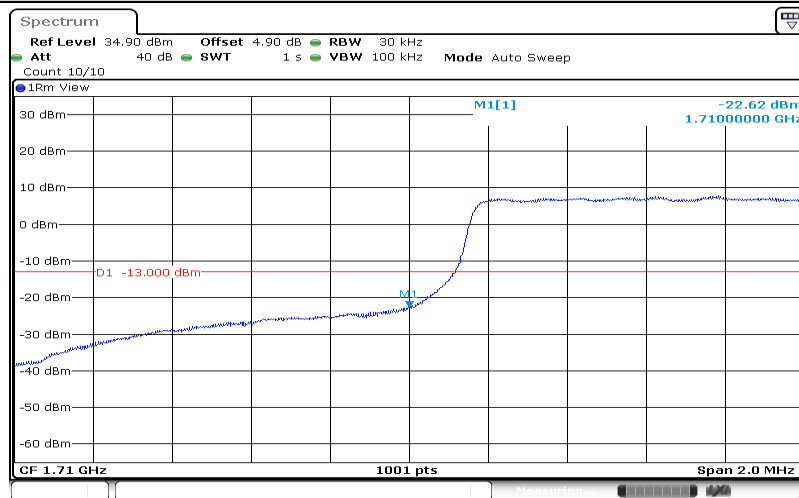
5. Band Edge Compliance

5.1. Test Plots

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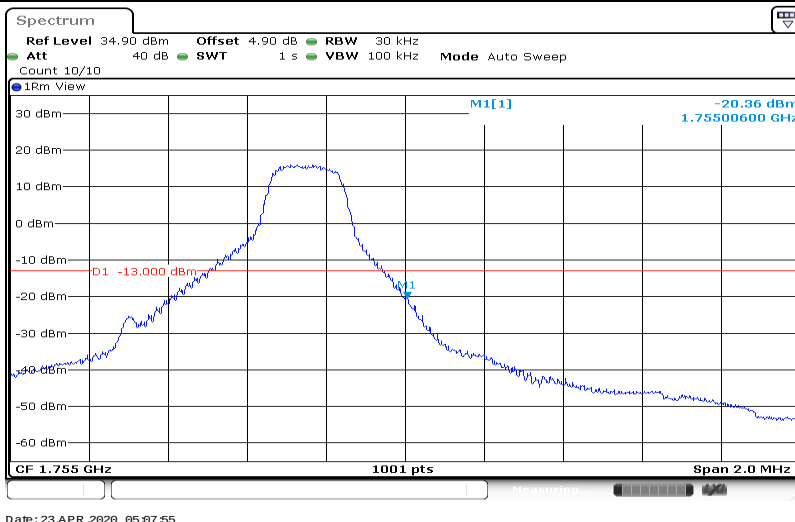


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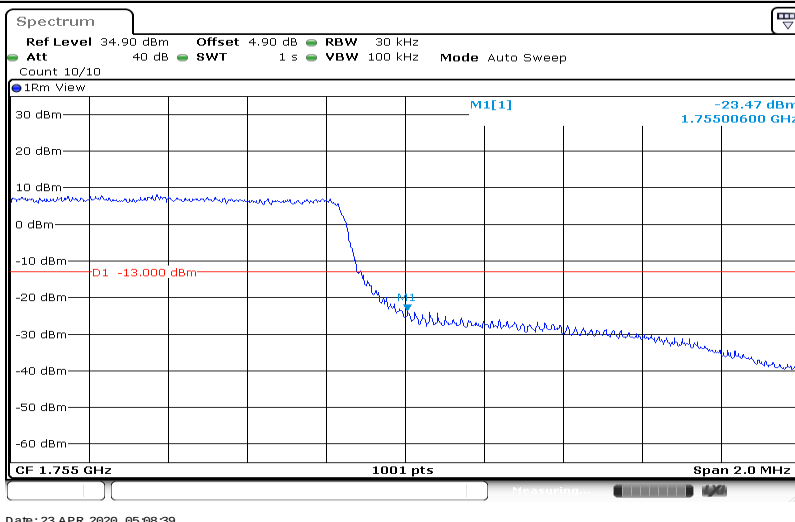


Band4-1.4MHz-QPSK-20393-1RB#5





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



Band4-1.4MHz-64QAM-19957-1RB#0





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



Band4-1.4MHz-64QAM-20393-1RB#5



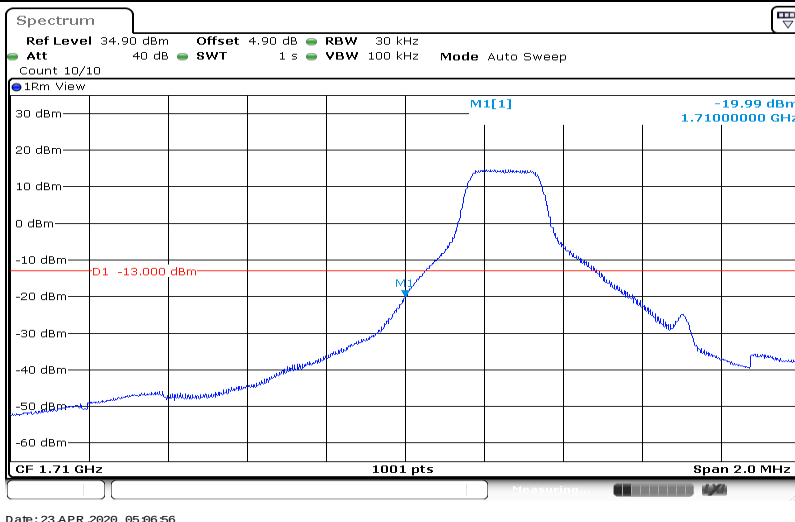


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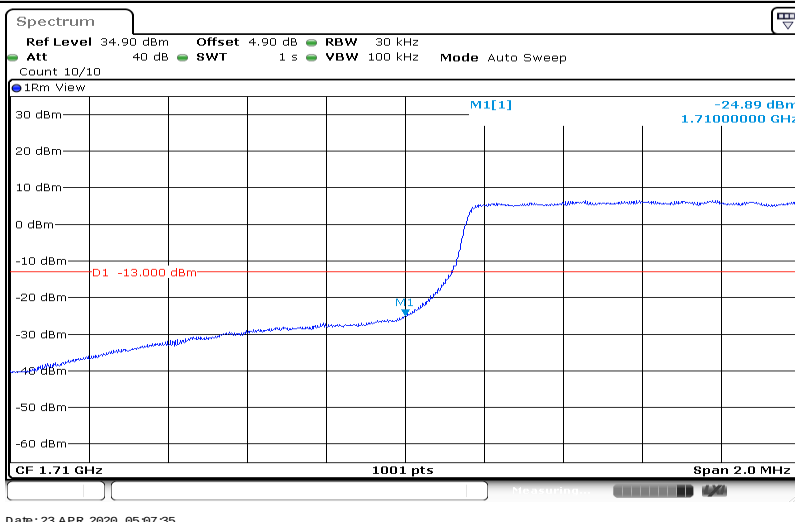


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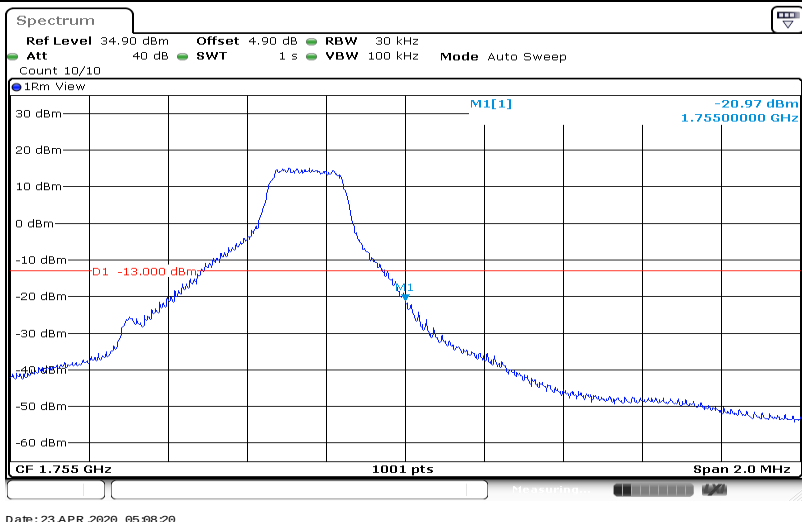


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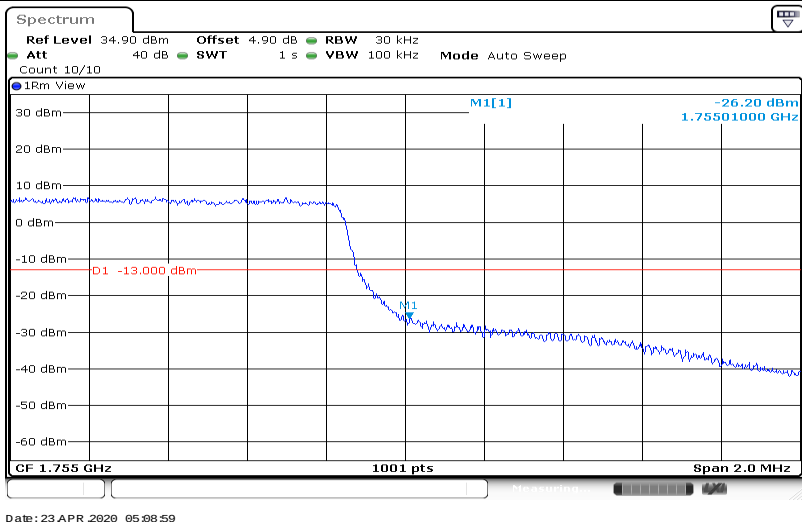


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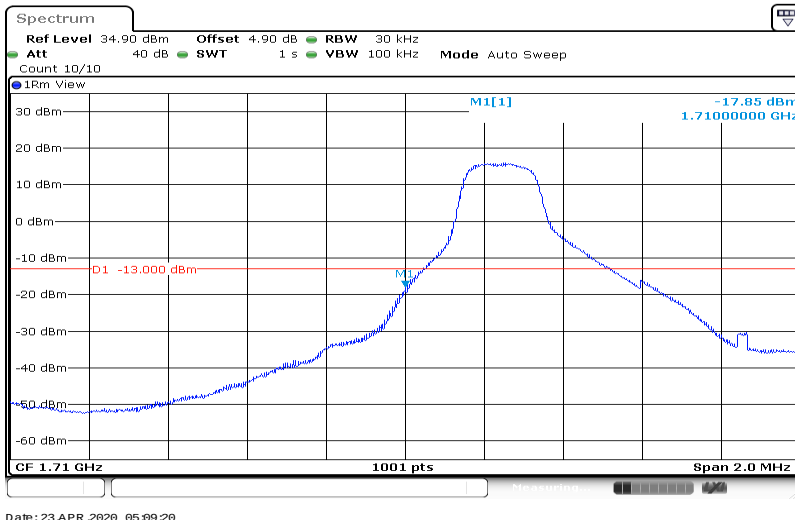


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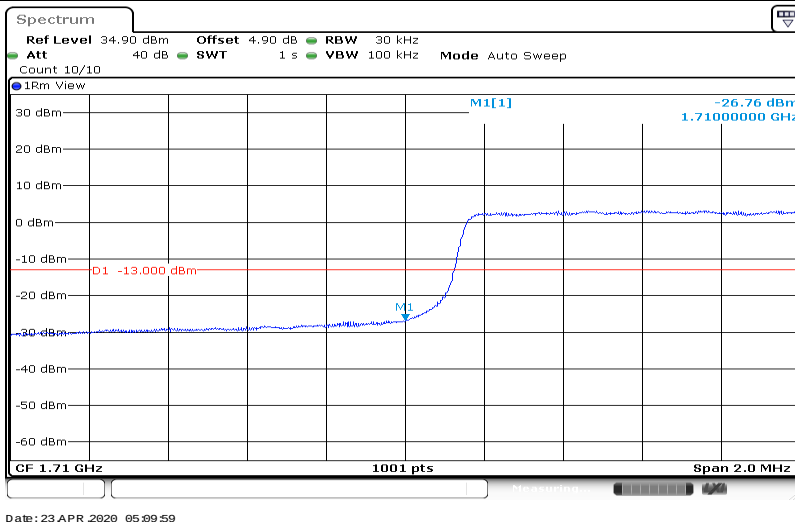


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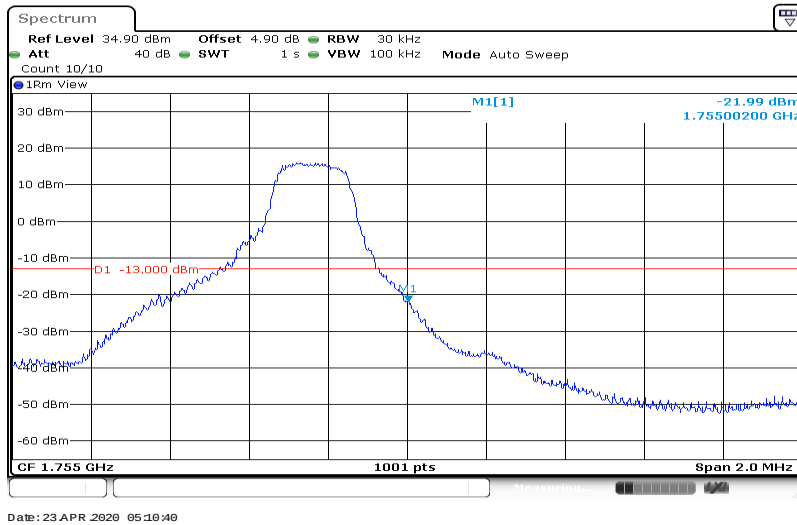


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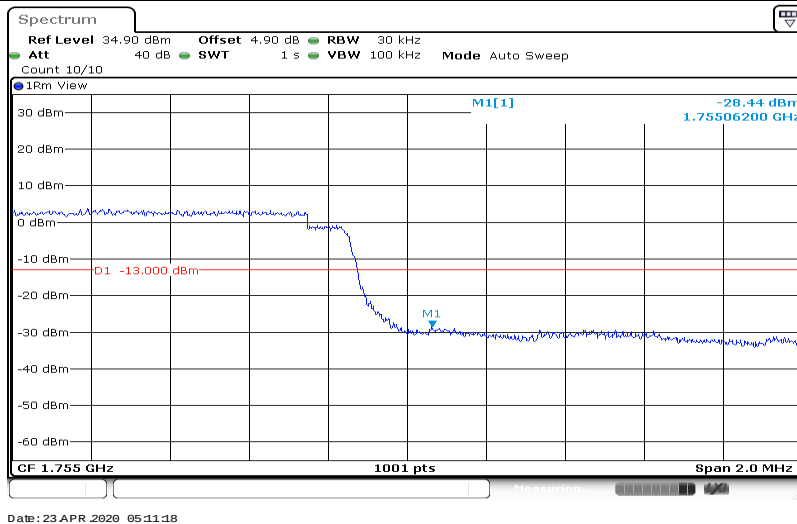


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Band4-3MHz-QPSK-20385-15RB#0



Band4-3MHz-64QAM-19965-1RB#0





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



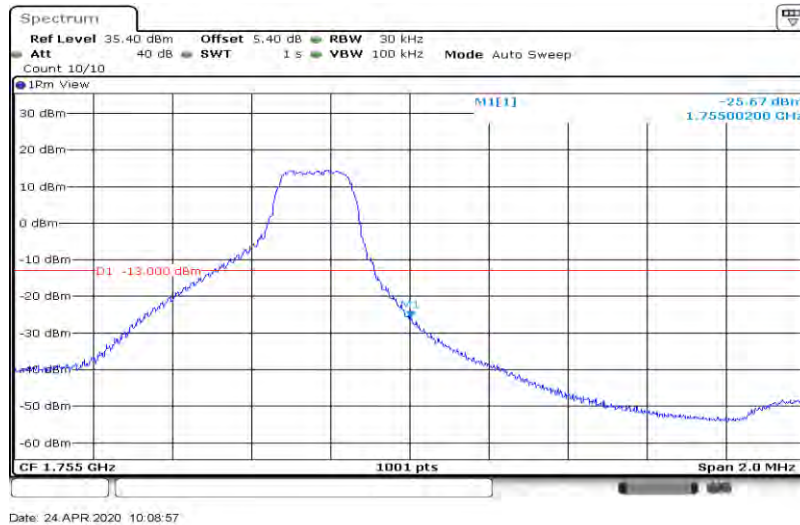
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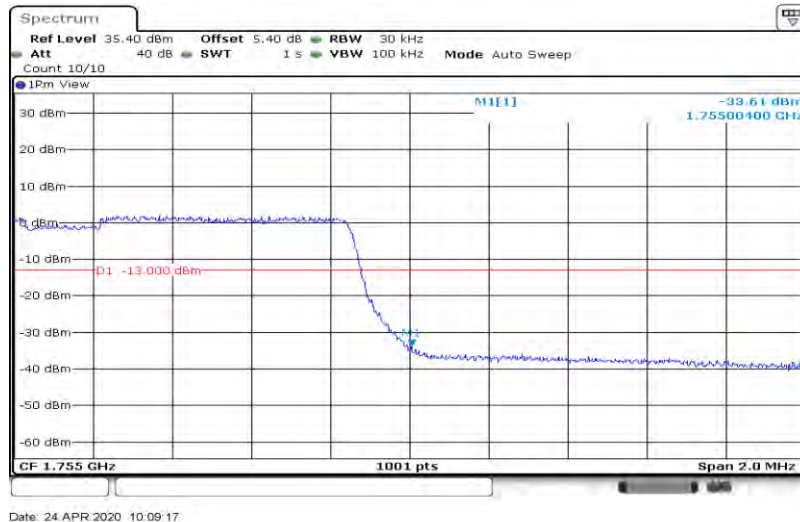
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Date: 24 APR 2020 10:08:57

Band4-3MHz-64QAM-20385-15RB#0



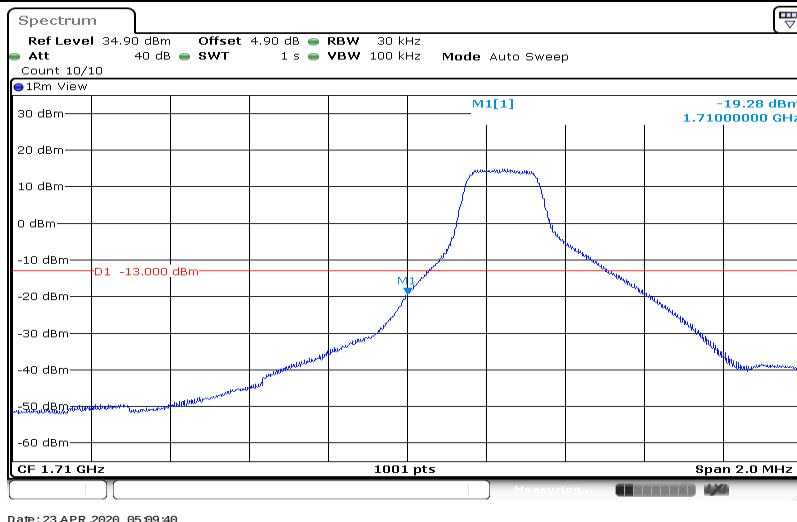
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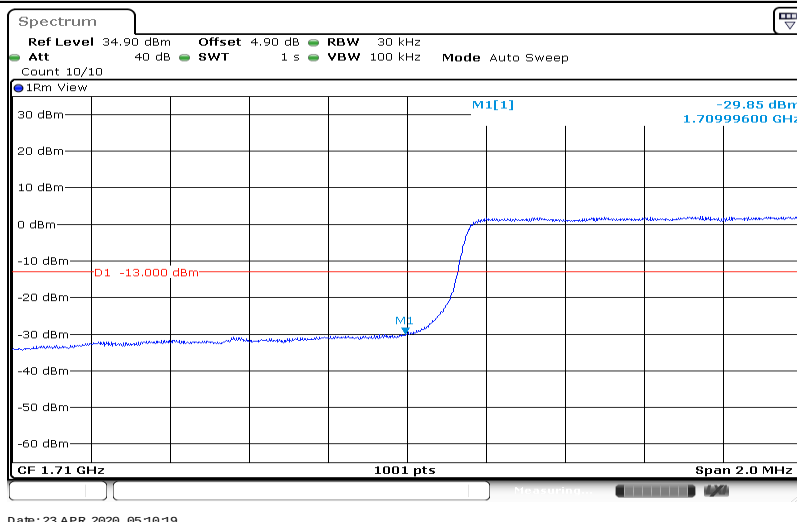


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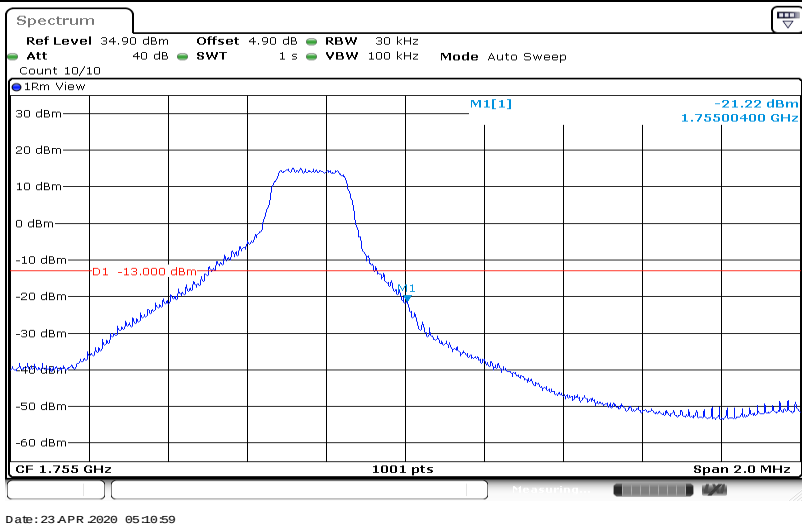


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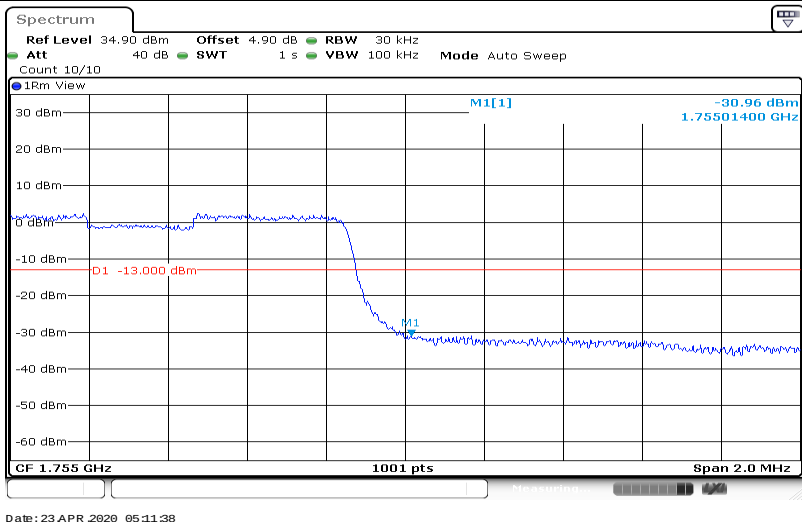


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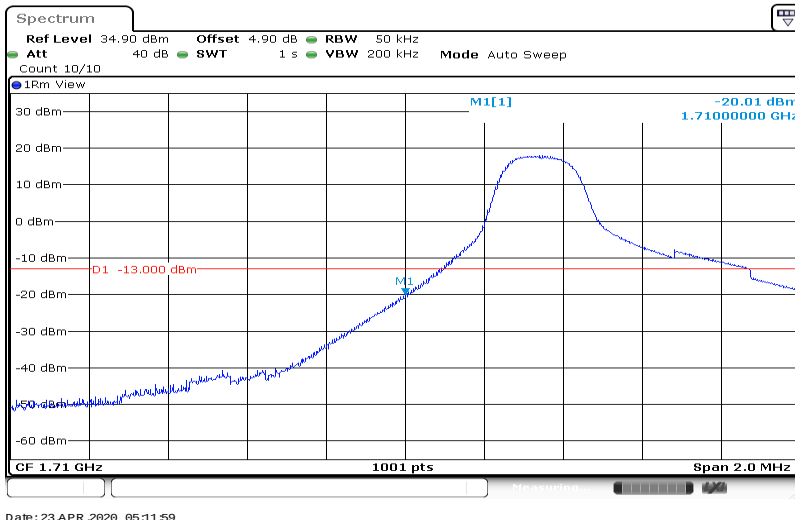


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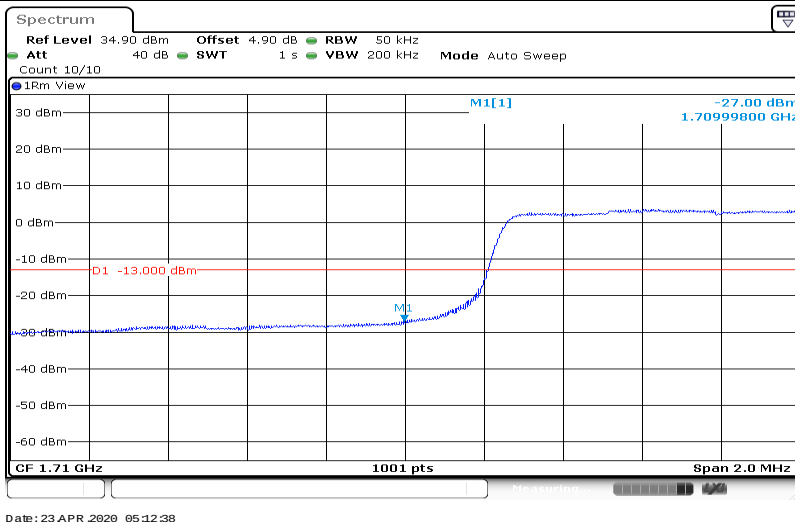


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Band4-5MHz-QPSK-19975-25RB#0

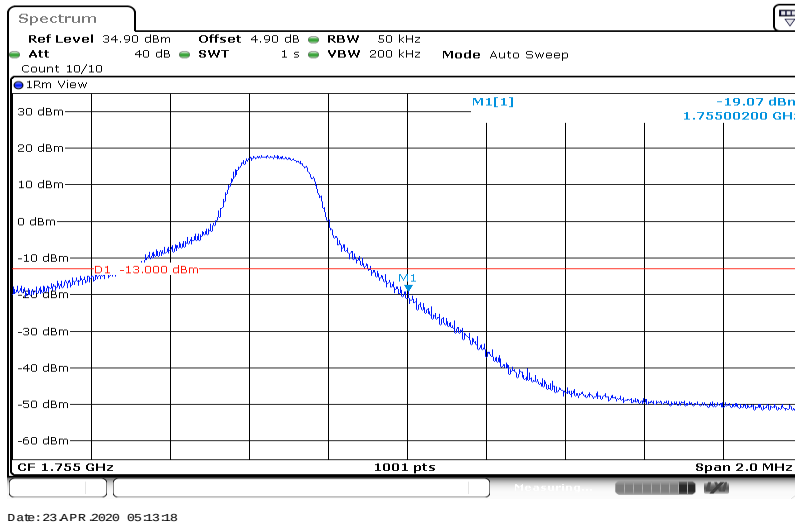


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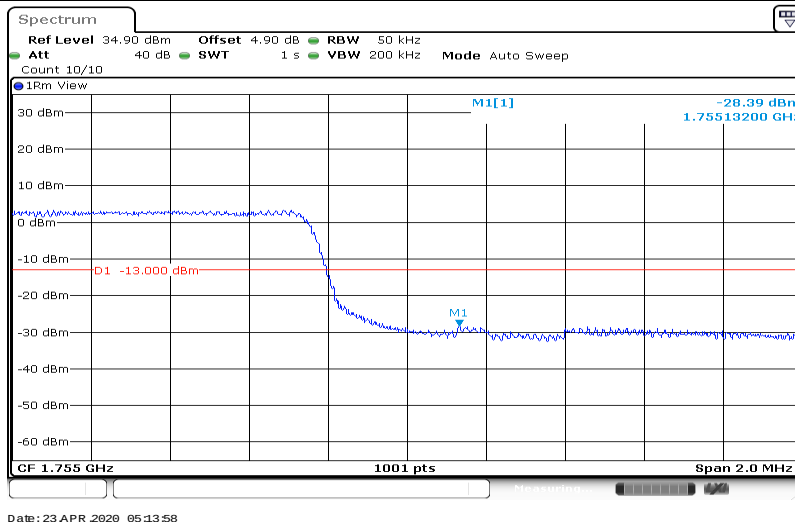


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Band4-5MHz-QPSK-20375-25RB#0

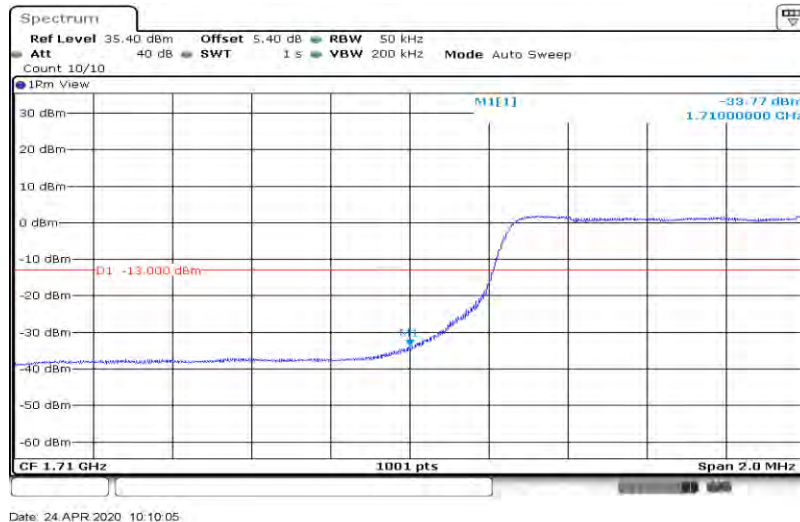


Band4-5MHz-64QAM-19975-1RB#0





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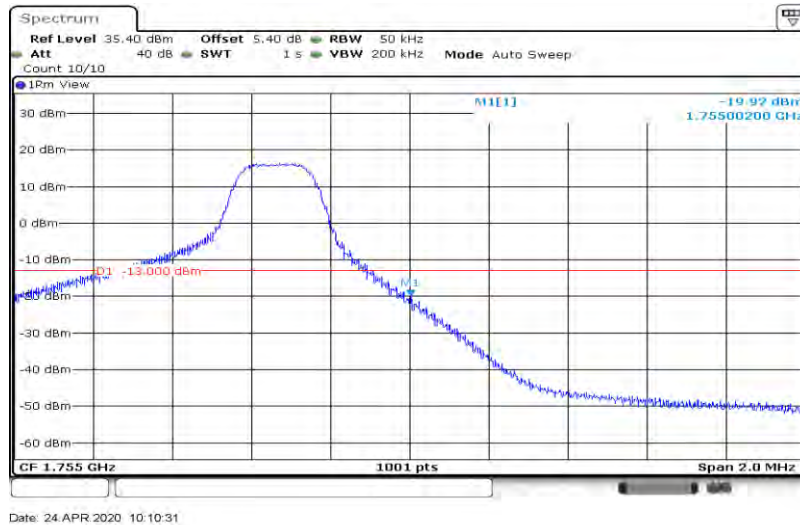
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Band4-5MHz-64QAM-20375-25RB#0



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



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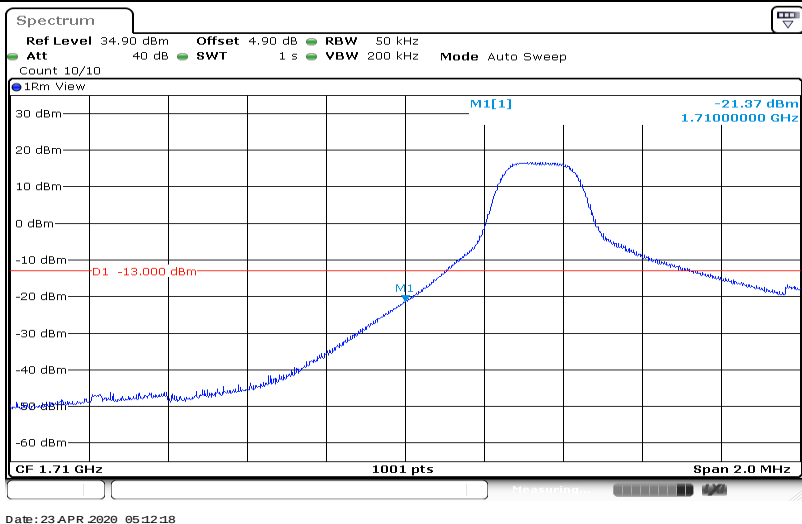
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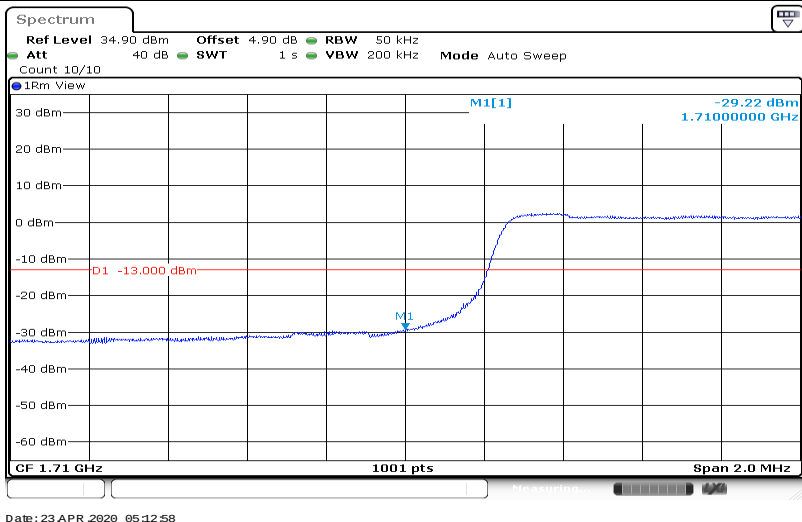
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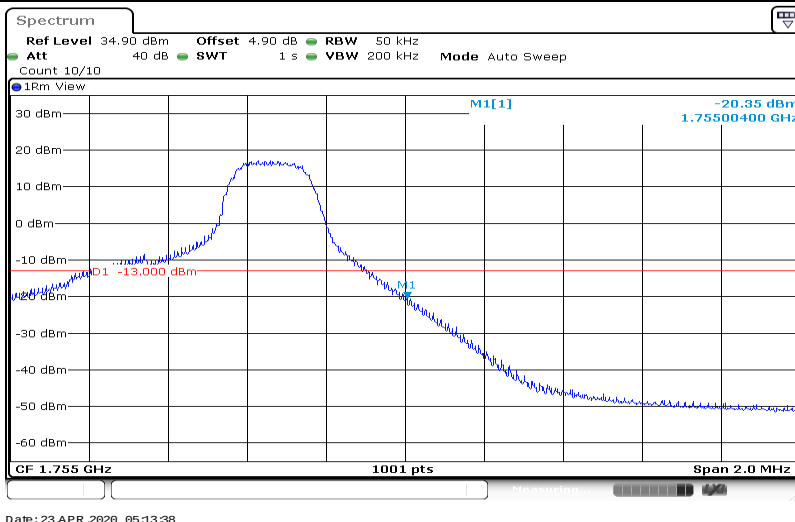


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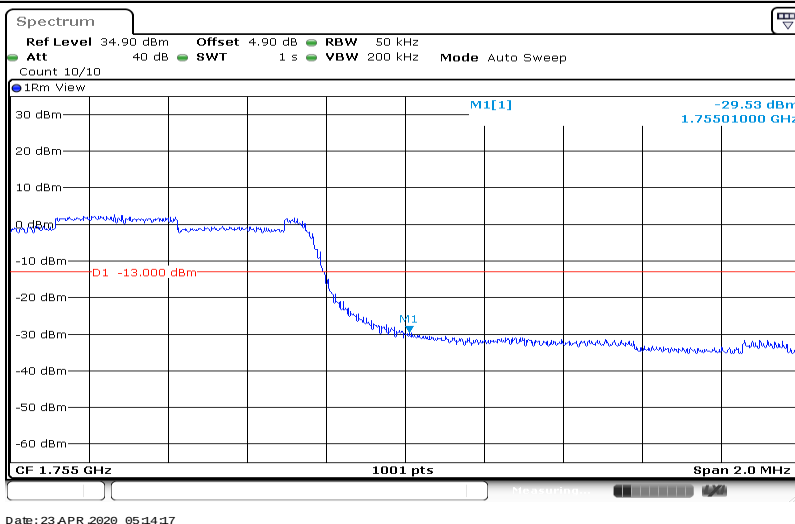


Band4-5MHz-16QAM-20375-1RB#24





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

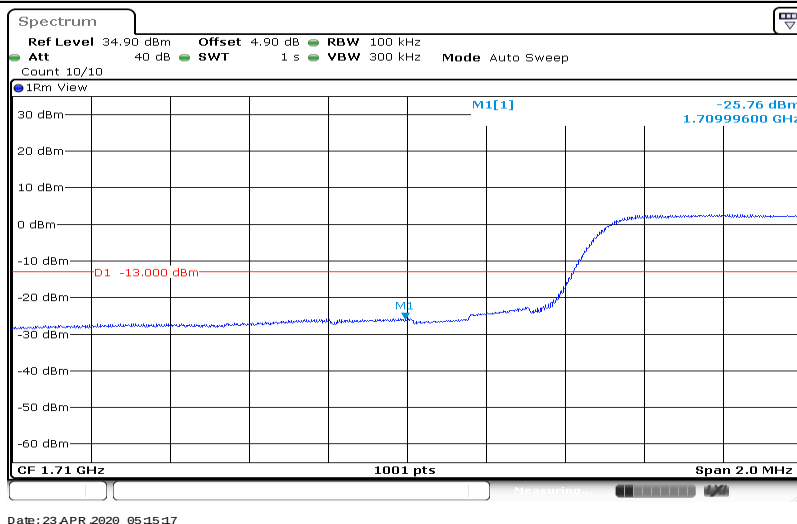


Band4-10MHz-QPSK-20000-1RB#0





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

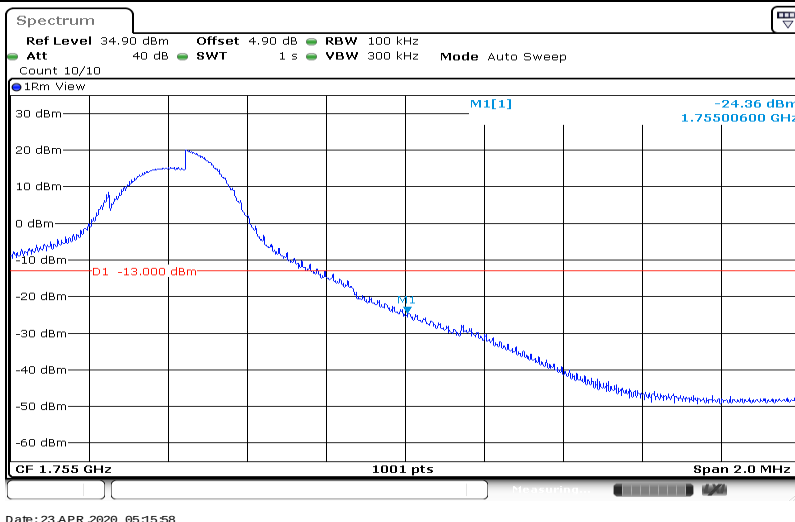


Band4-10MHz-QPSK-20350-1RB#49

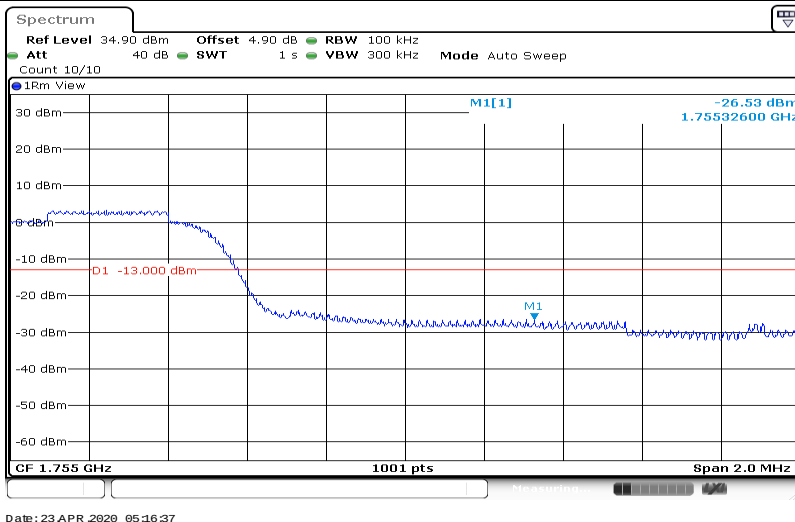


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Band4-10MHz-QPSK-20350-50RB#0



Band4-10MHz-64QAM-20000-1RB#0





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



Band4-10MHz-64QAM-20350-1RB#49





Band4-10MHz-64QAM-20350-50RB#0



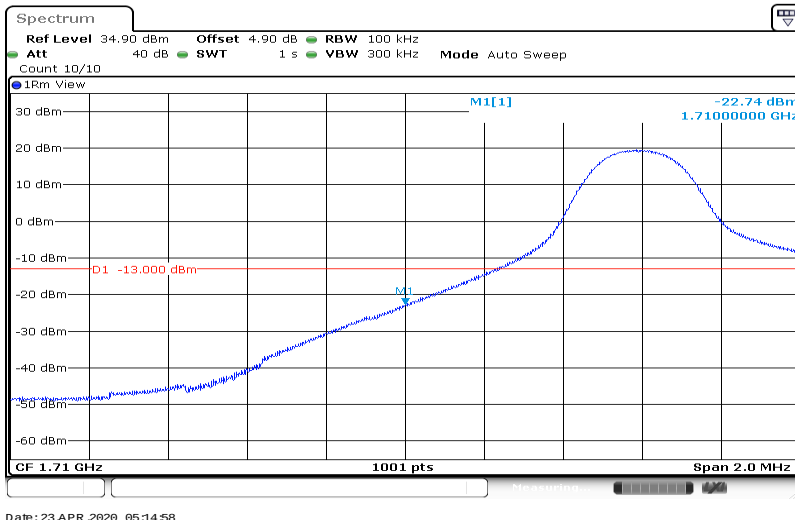
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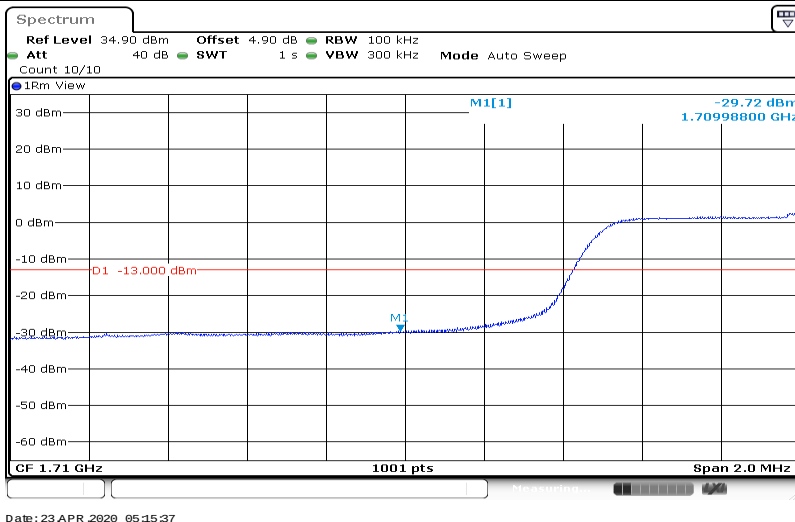
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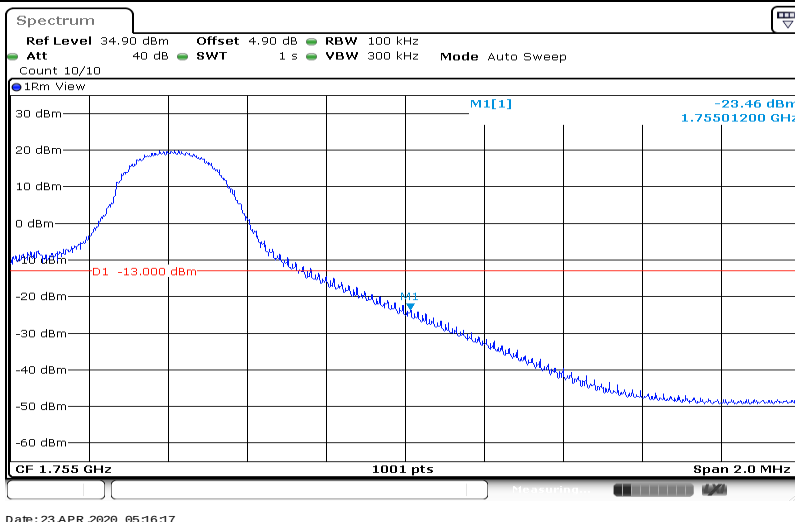


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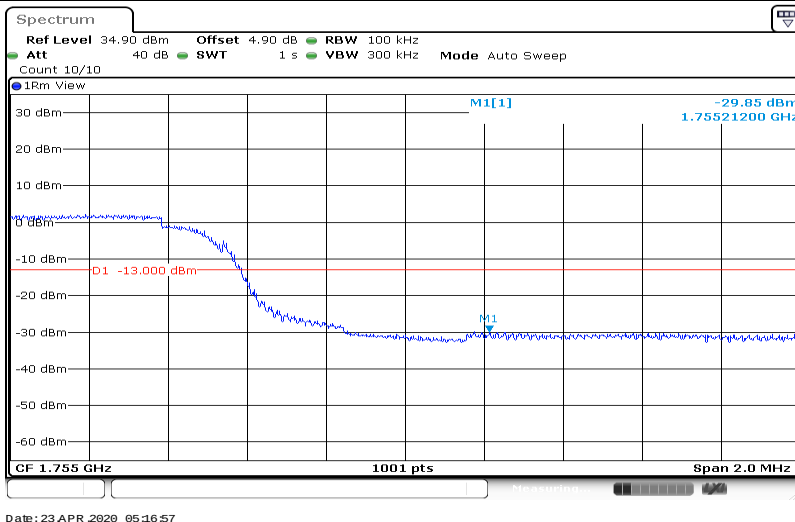


Band4-10MHz-16QAM-20350-1RB#49





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



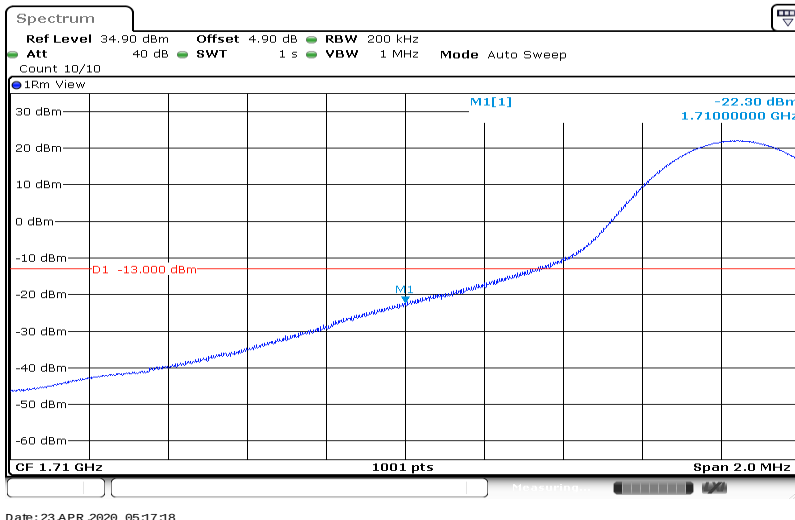
Band4-15MHz-QPSK-20025-1RB#0



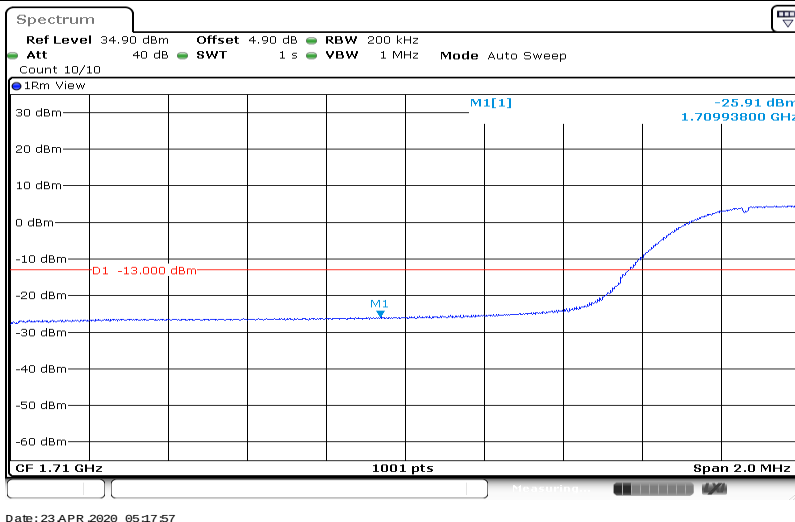
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Band4-15MHz-QPSK-20025-75RB#0

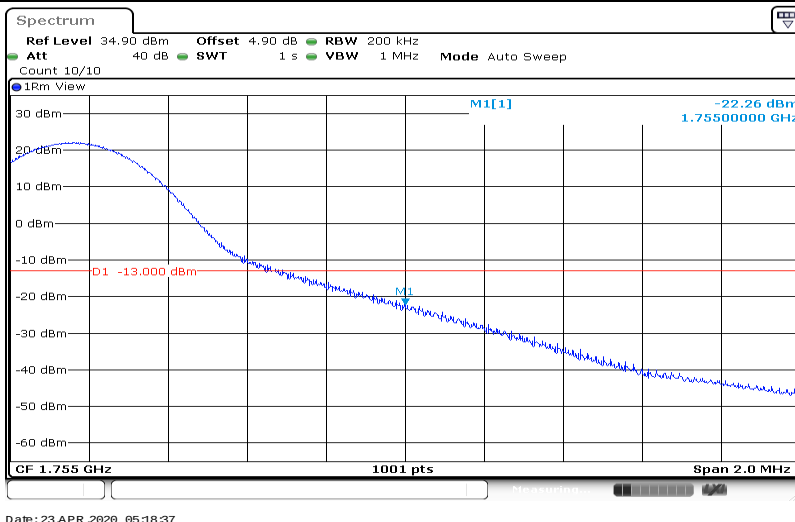


Band4-15MHz-QPSK-20325-1RB#74

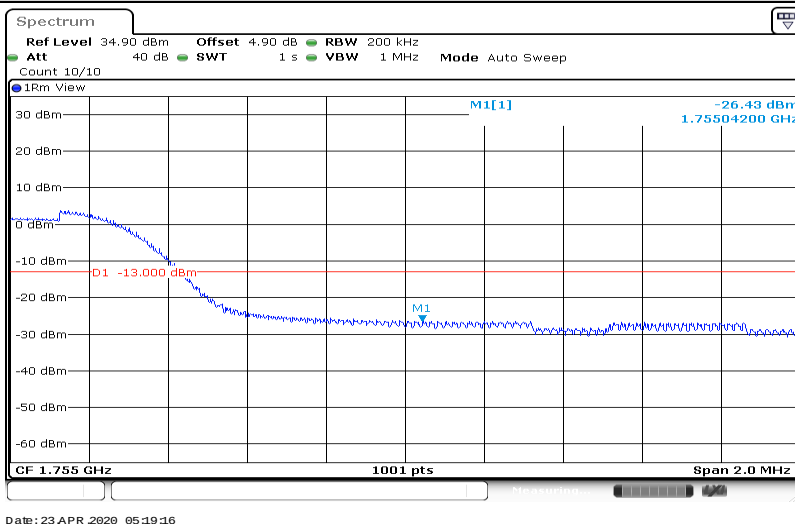


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Band4-15MHz-QPSK-20325-75RB#0



Band4-15MHz-64QAM-20025-1RB#0



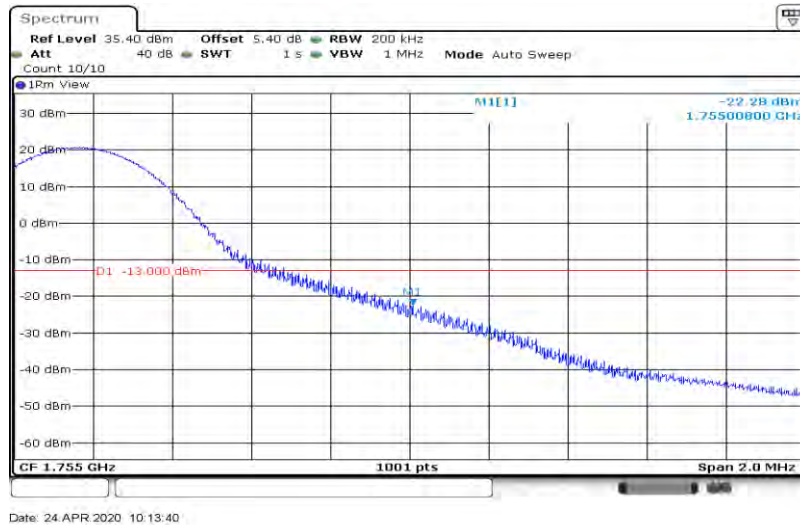


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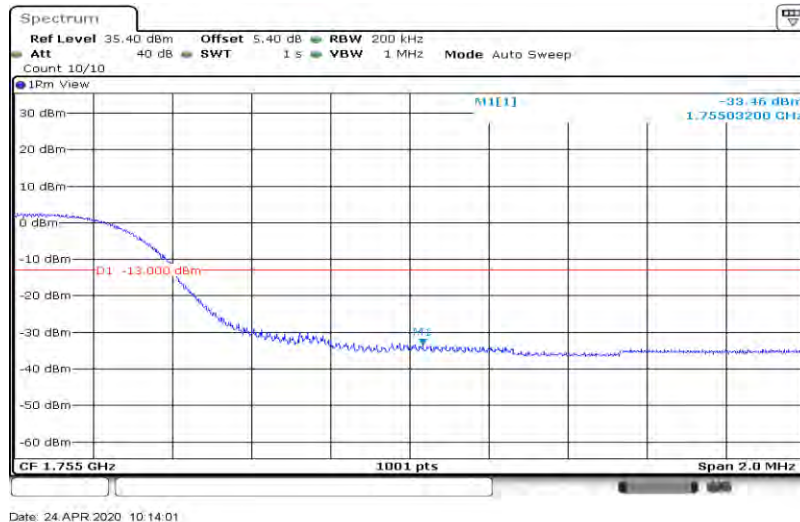


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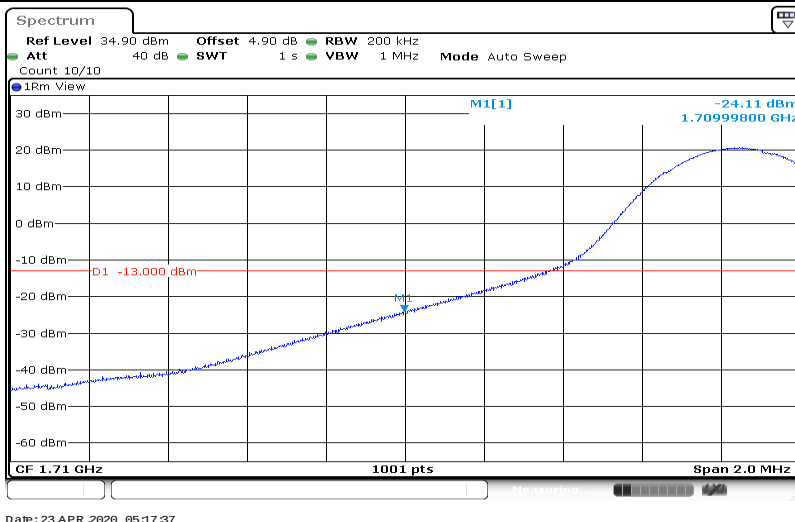


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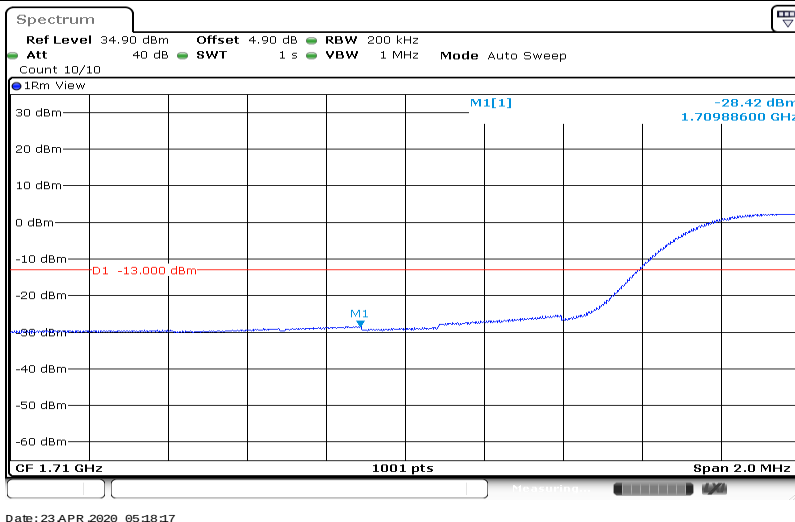


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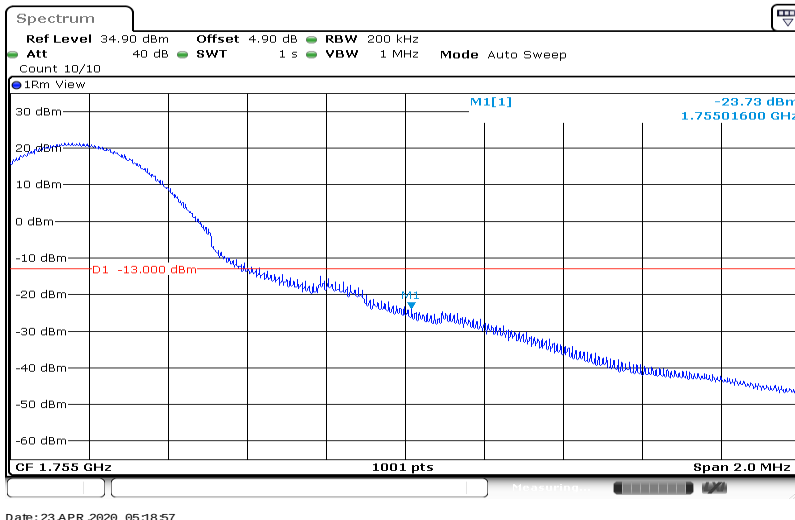


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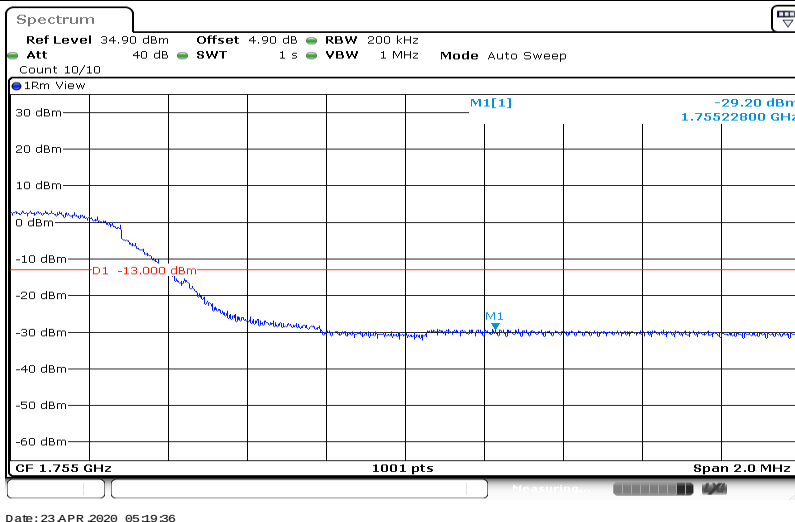


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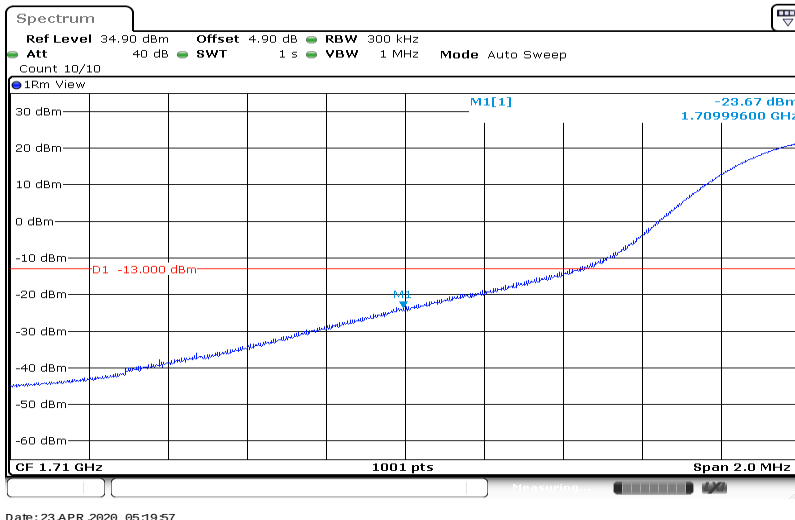


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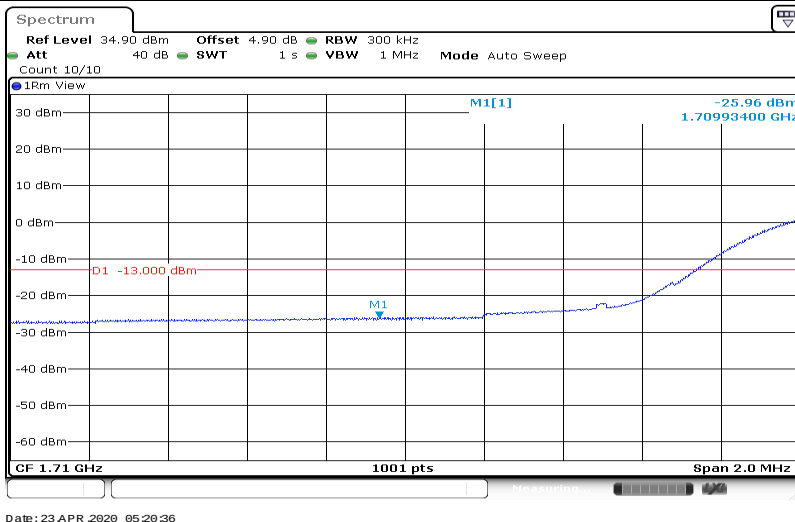


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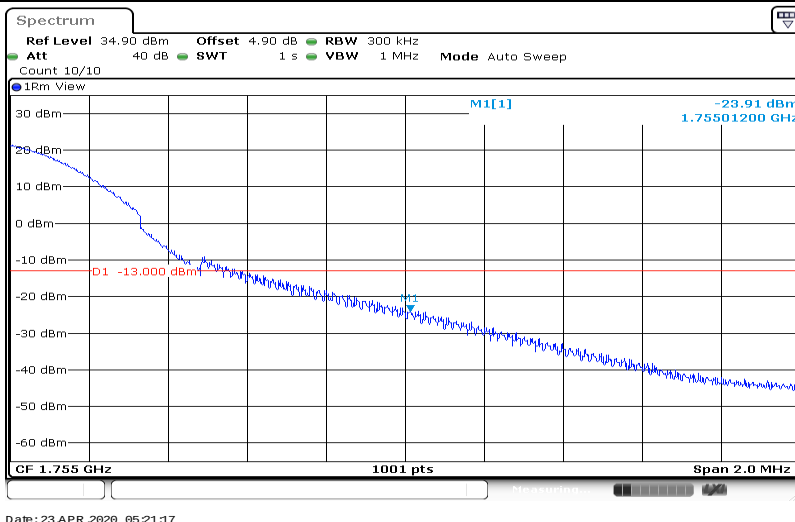


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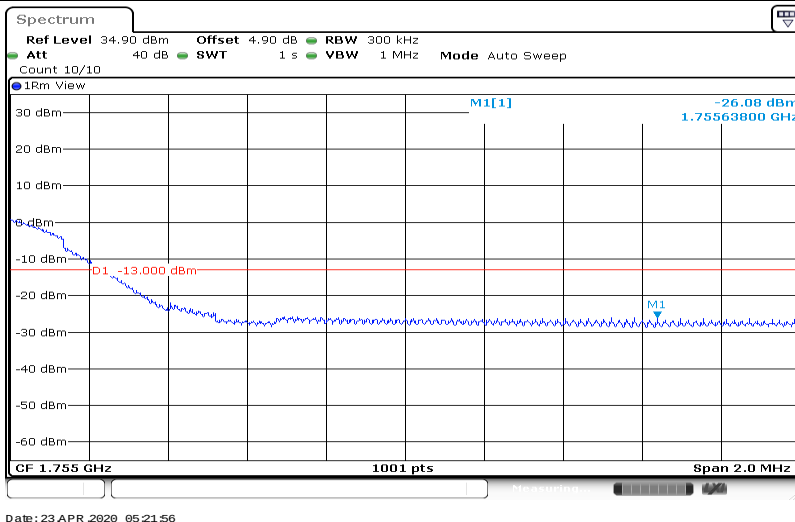


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Band4-20MHz-QPSK-20300-100RB#0



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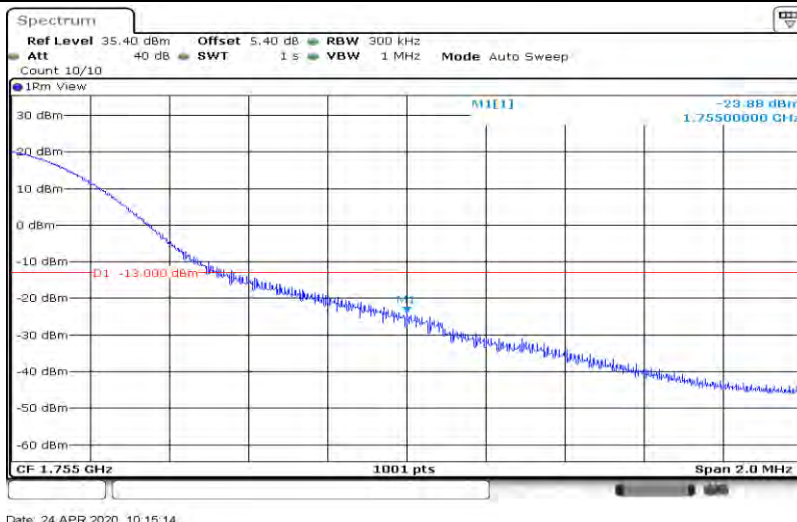


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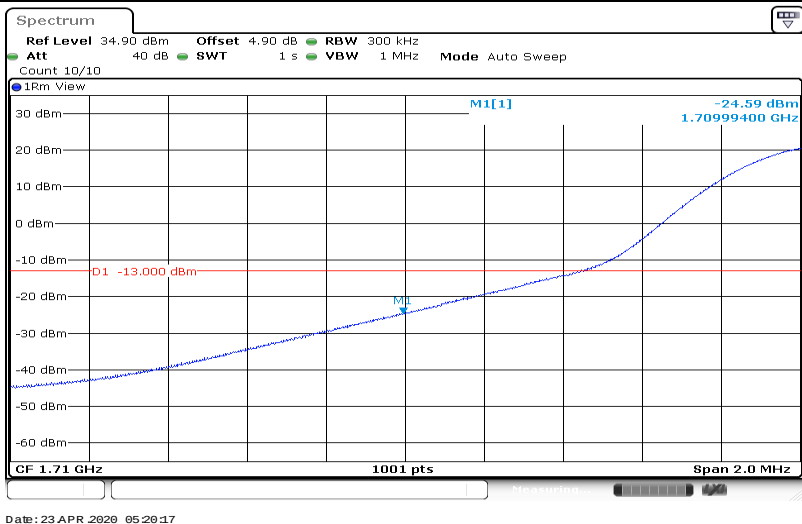


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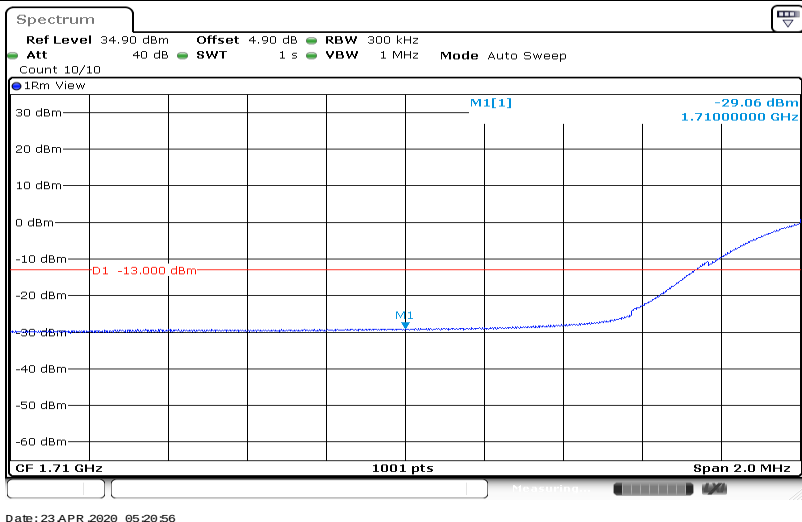


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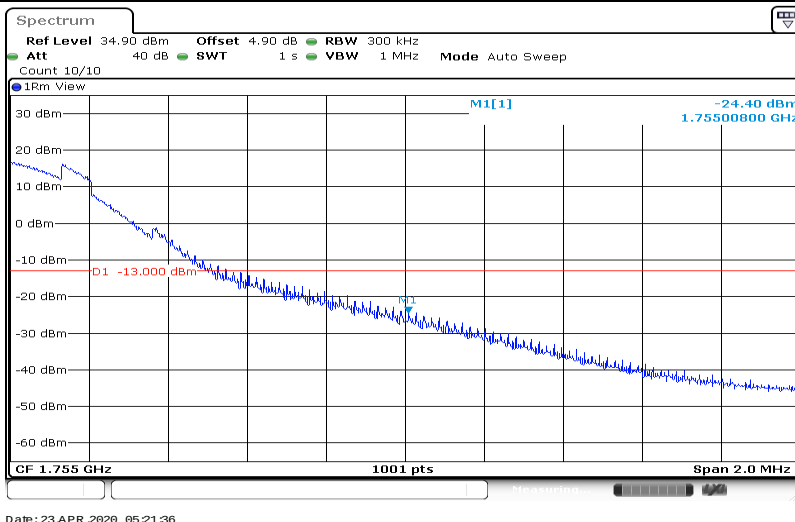


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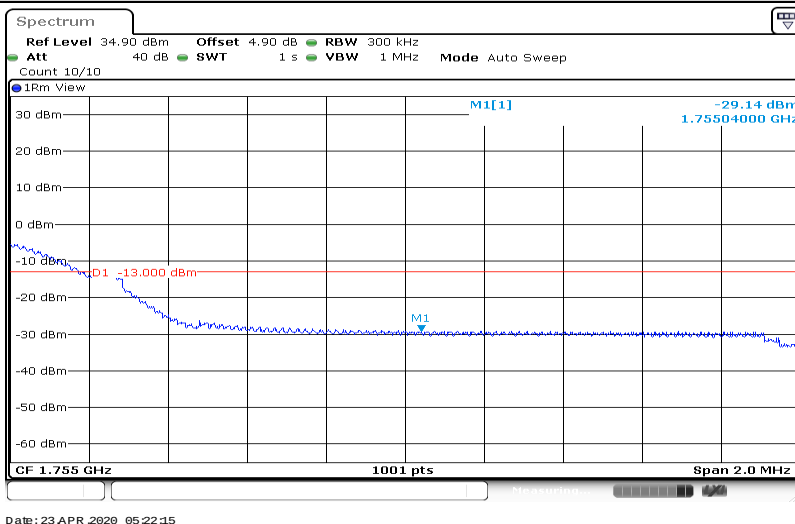


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Band4-20MHz-16QAM-20300-100RB#0

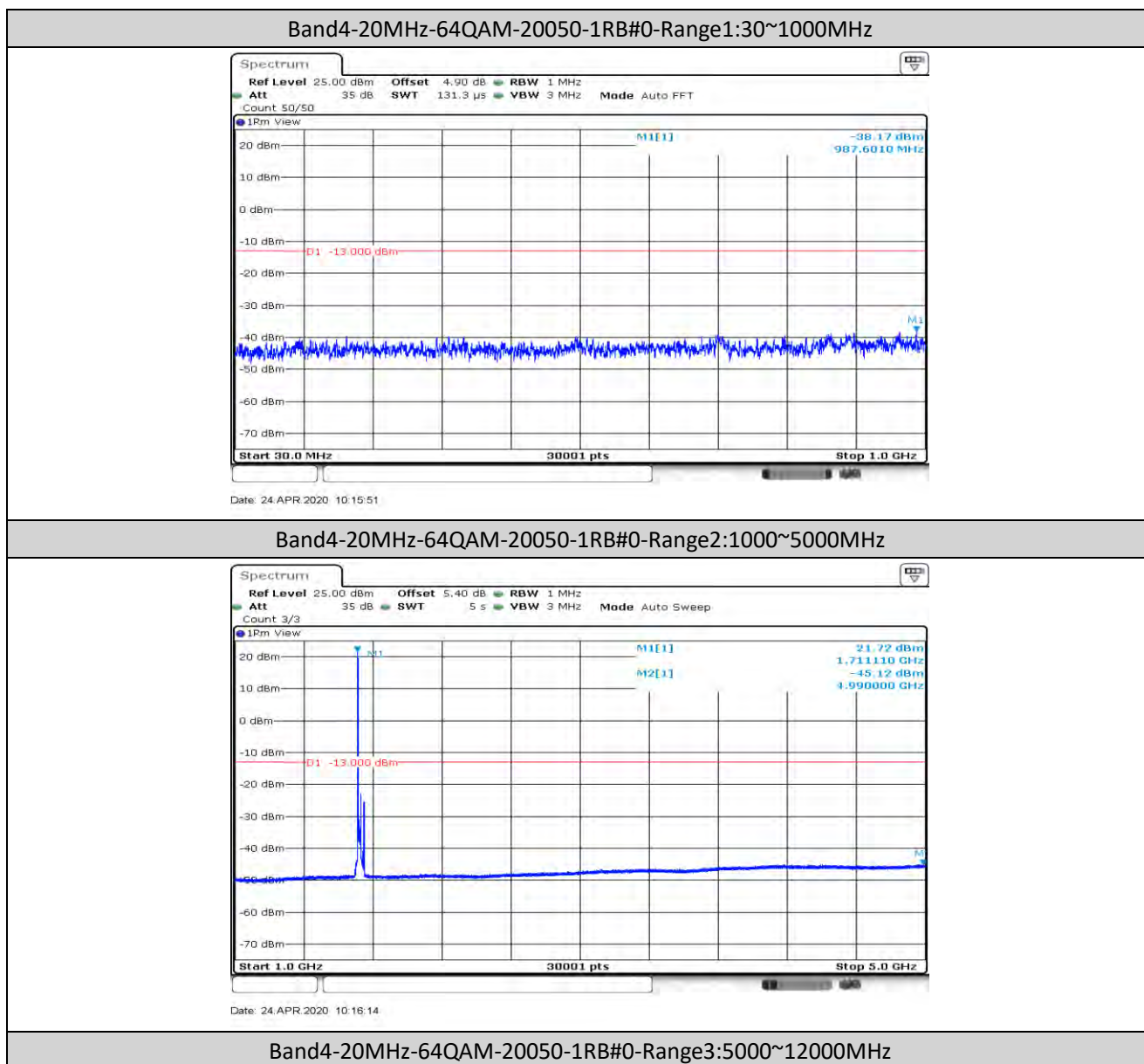


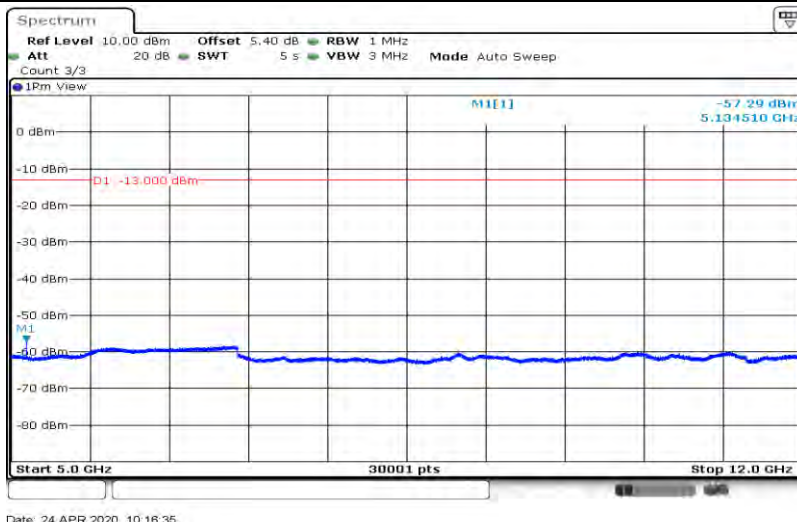
6. Spurious Emission at Antenna Terminal

Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k * (\text{Span} / RBW)$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

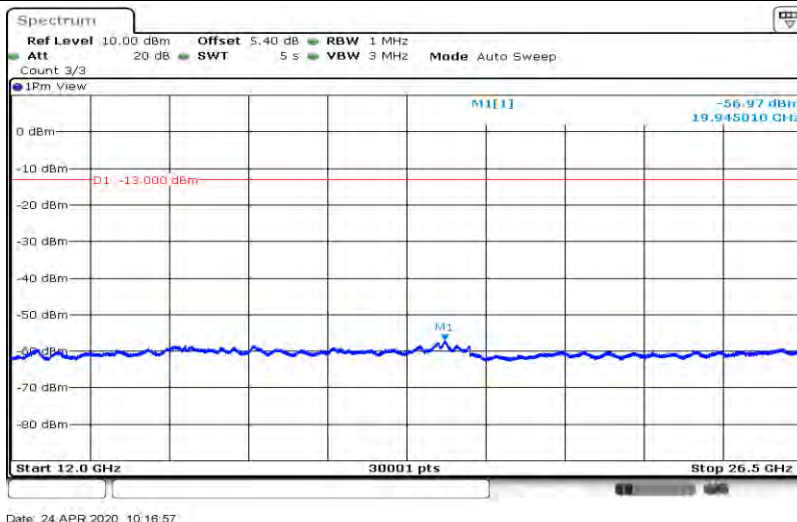
Remark2: only the worst case data displayed in this report.

6.1. Test Plots





Band4-20MHz-64QAM-20050-1RB#0-Range4:12000~26500MHz



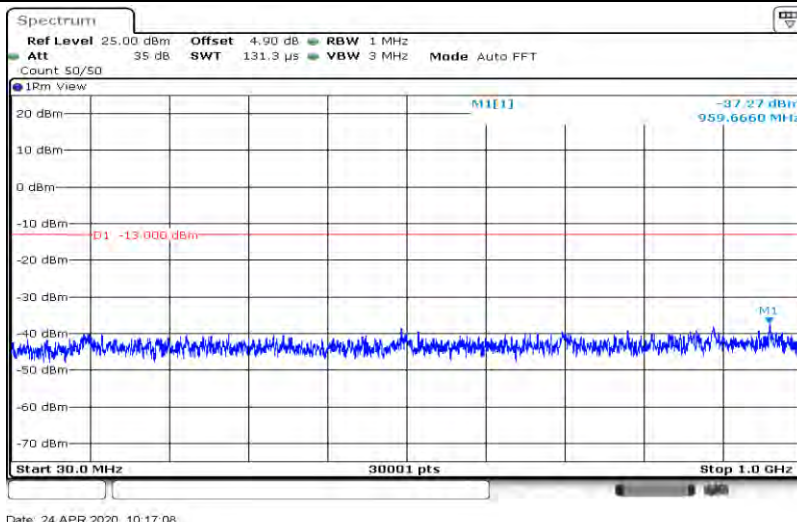
Band4-20MHz-64QAM-20175-1RB#0-Range1:30~1000MHz



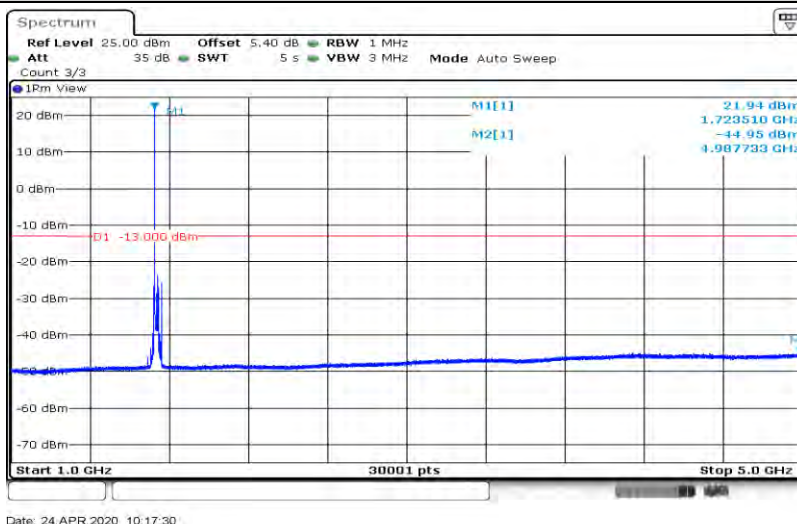
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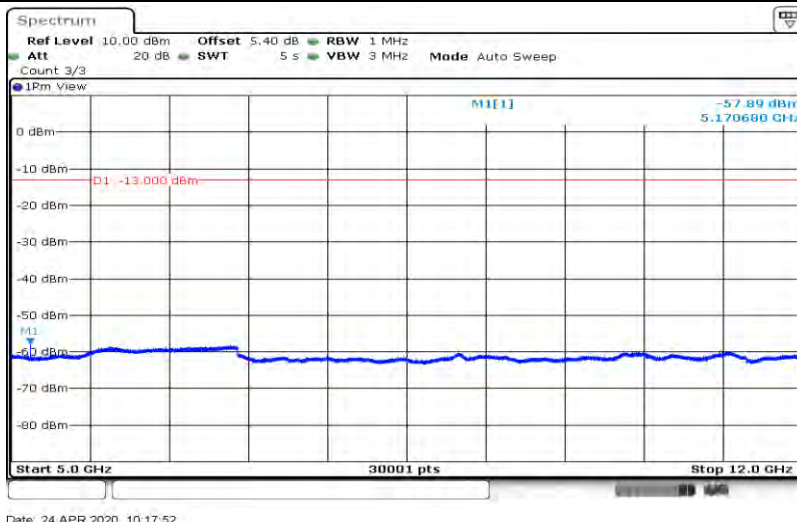


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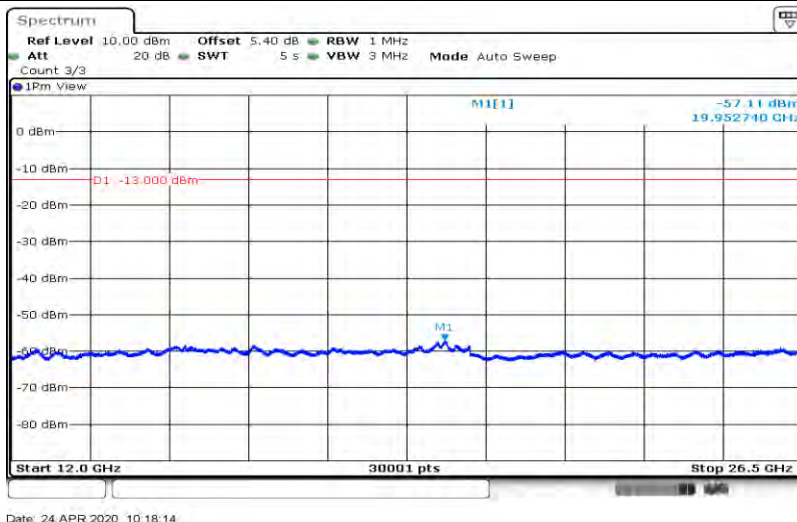


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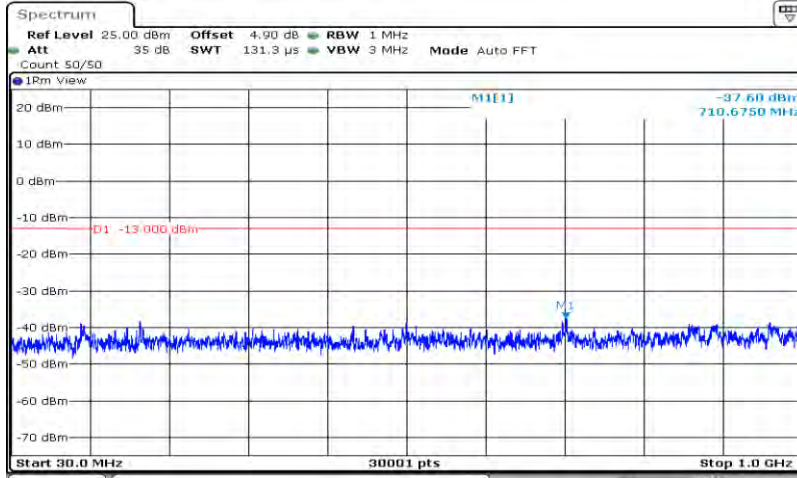


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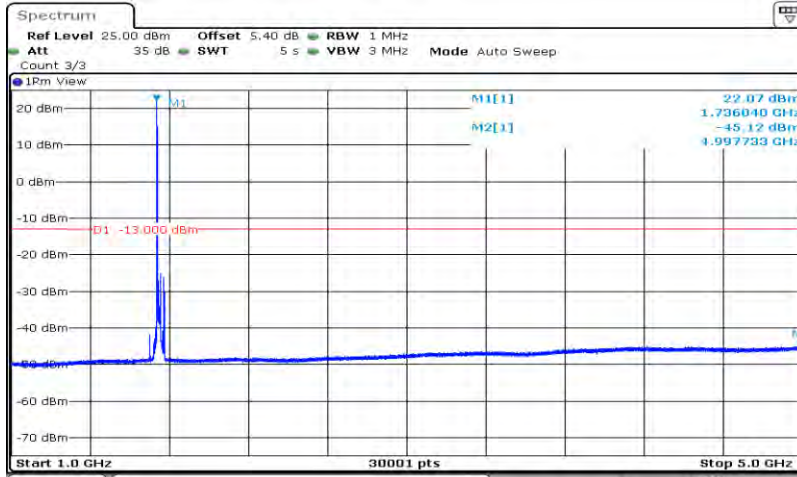
Band4-20MHz-64QAM-20300-1RB#0-Range1:30~1000MHz





Date: 24 APR 2020 10:18:25

Band4-20MHz-64QAM-20300-1RB#0-Range2:1000~5000MHz



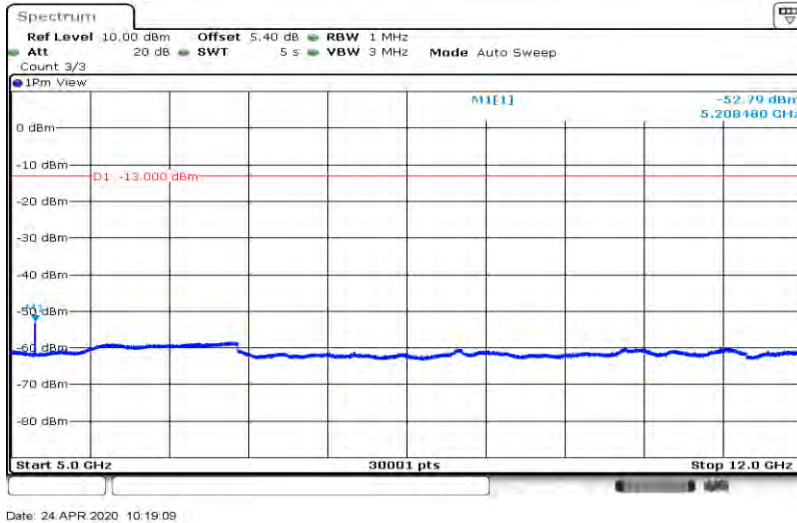
Date: 24 APR 2020 10:18:47

Band4-20MHz-64QAM-20300-1RB#0-Range3:5000~12000MHz

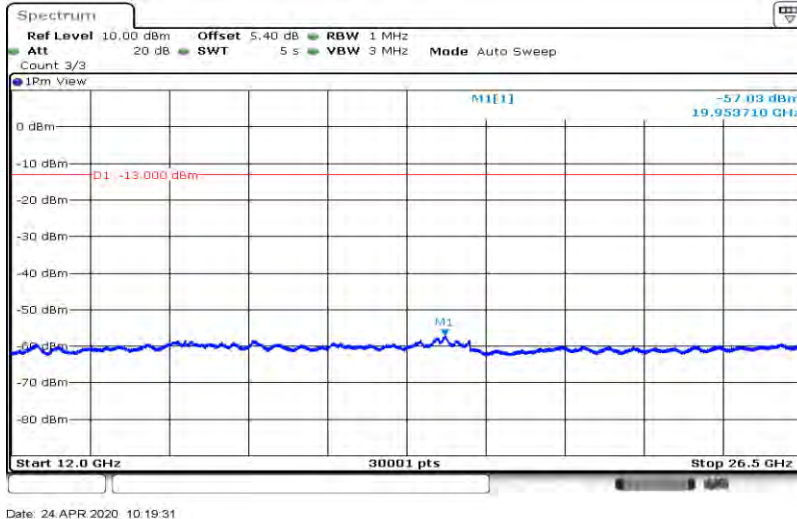


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Band4-20MHz-64QAM-20300-1RB#0-Range4:12000~26500MHz



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7. Field Strength of Spurious Radiation

7.1. Test Mode =LTE/TM1

7.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
48.2369	-72.77	-13.00	59.77	Vertical
112.7451	-64.93	-13.00	51.93	Vertical
592.6766	-64.50	-13.00	51.50	Vertical
2692.3385	-36.50	-13.00	23.50	Vertical
8036.6679	-55.38	-13.00	42.38	Vertical
17998.5000	-40.14	-13.00	27.14	Vertical
43.9202	-64.57	-13.00	51.57	Horizontal
246.3208	-67.92	-13.00	54.92	Horizontal
562.5566	-64.28	-13.00	51.28	Horizontal
2704.3409	-35.30	-13.00	22.30	Horizontal
7357.6453	-56.13	-13.00	43.13	Horizontal
16393.9465	-43.93	-13.00	30.93	Horizontal

7.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
47.1699	-72.25	-13.00	59.25	Vertical
112.7936	-64.85	-13.00	51.85	Vertical
418.1164	-68.29	-13.00	55.29	Vertical
2697.9396	-36.54	-13.00	23.54	Vertical
7342.6448	-56.02	-13.00	43.02	Vertical
17996.4999	-39.85	-13.00	26.85	Vertical
44.5992	-63.21	-13.00	50.21	Horizontal
234.2437	-68.30	-13.00	55.30	Horizontal
629.2475	-62.41	-13.00	49.41	Horizontal
2700.3401	-35.41	-13.00	22.41	Horizontal
8014.6672	-55.77	-13.00	42.77	Horizontal
16401.4467	-43.39	-13.00	30.39	Horizontal



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Shenzhen Branch Laboratory

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7.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
50.8075	-72.66	-13.00	59.66	Vertical
116.9163	-65.19	-13.00	52.19	Vertical
466.4733	-66.71	-13.00	53.71	Vertical
2703.9408	-36.56	-13.00	23.56	Vertical
7991.1664	-55.66	-13.00	42.66	Vertical
17999.5000	-39.90	-13.00	26.90	Vertical
45.0358	-63.94	-13.00	50.94	Horizontal
242.5376	-68.54	-13.00	55.54	Horizontal
559.7435	-63.79	-13.00	50.79	Horizontal
2705.5411	-35.39	-13.00	22.39	Horizontal
7481.6494	-55.94	-13.00	42.94	Horizontal
16399.4466	-43.42	-13.00	30.42	Horizontal

Remark:

- 1 According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.
- 2 The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data displayed in this report.



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Shenzhen Branch (CMAA) Laboratory

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8. Frequency Stability

8.1. Frequency Vs Voltage

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4	20MHz	QPSK	20050	100RB#0	VL	NT	-8.50	-0.004942	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	VN	NT	3.10	0.001802	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	VH	NT	-0.10	-0.000058	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	VL	NT	1.60	0.000924	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	VN	NT	1.50	0.000866	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	VH	NT	-5.20	-0.003001	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	VL	NT	4.20	0.002407	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	VN	NT	-9.30	-0.005330	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	VH	NT	-10.10	-0.005788	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	VL	NT	1.50	0.000866	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	VN	NT	-11.80	-0.006860	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	VH	NT	-8.30	-0.004826	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	VL	NT	-4.20	-0.002407	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	VN	NT	0.40	0.000231	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	VH	NT	-3.50	-0.002035	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	VL	NT	-1.60	-0.000917	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	VN	NT	-1.00	-0.000573	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	VH	NT	-2.10	-0.001203	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	VL	NT	-8.30	-0.004826	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	VN	NT	-2.30	-0.001337	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	VH	NT	-3.50	-0.002035	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	VL	NT	-3.10	-0.001789	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	VN	NT	-10.40	-0.006003	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	VH	NT	-9.00	-0.005195	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	VL	NT	-4.20	-0.002407	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	VN	NT	-8.50	-0.004871	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	VH	NT	1.90	0.001089	±2.5	PASS

8.2. Frequency Vs Temperature

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4	20MHz	QPSK	20050	100RB#0	NV	-30	-5.90	-0.003430	±2.5	PASS



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Band4	20MHz	QPSK	20050	100RB#0	NV	-20	-9.20	-0.005349	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	0	-3.70	-0.002151	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	10	-10.30	-0.005988	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	20	-11.00	-0.006395	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	30	2.80	0.001628	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	40	-11.50	-0.006686	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	50	-3.20	-0.001860	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-30	-1.40	-0.000808	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-20	-0.10	-0.000058	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	0	-3.60	-0.002078	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	10	0.40	0.000231	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	20	-12.80	-0.007388	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	30	0.70	0.000404	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	40	-6.80	-0.003925	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	50	-1.30	-0.000750	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	-30	0.40	0.000229	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	-20	1.20	0.000688	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	0	1.00	0.000573	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	10	-7.90	-0.004527	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	20	-3.60	-0.002063	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	30	-4.20	-0.002407	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	40	-5.90	-0.003381	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	50	-9.20	-0.005272	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	-30	-1.30	-0.000750	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	-20	0.70	0.000404	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	0	-3.60	-0.002078	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	10	-19.80	-0.011512	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	20	-7.00	-0.004070	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	30	-12.40	-0.007209	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	40	-10.40	-0.006047	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	50	0.40	0.000231	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	-30	-12.80	-0.007388	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	-20	0.40	0.000231	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	0	-12.80	-0.007388	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	10	-2.10	-0.001212	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	20	-4.10	-0.002367	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	30	4.30	0.002482	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	40	-0.90	-0.000519	±2.5	PASS



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Band4	20MHz	64QAM	20175	100RB#0	NV	50	-7.50	-0.004298	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	-30	-16.80	-0.009628	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	-20	0.10	0.000057	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	0	-1.40	-0.000802	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	10	-4.90	-0.002808	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	20	-9.90	-0.005673	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	30	-7.50	-0.004298	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	40	-0.30	-0.000172	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	50	-0.70	-0.000401	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	-30	-10.50	-0.006105	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	-20	0.60	0.000349	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	0	-12.80	-0.007442	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	10	-11.40	-0.006628	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	20	-1.80	-0.001047	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	30	-12.80	-0.007442	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	40	-4.70	-0.002733	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	50	-6.50	-0.003779	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	-30	-3.80	-0.002193	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	-20	-3.70	-0.002136	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	0	-5.00	-0.002886	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	10	0.60	0.000346	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	20	-3.30	-0.001905	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	30	5.10	0.002944	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	40	-9.70	-0.005599	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	50	-2.10	-0.001212	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	-30	-2.90	-0.001662	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	-20	-3.30	-0.001891	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	0	1.40	0.000802	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	10	-9.30	-0.005330	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	20	0.00	0.000000	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	30	-2.20	-0.001261	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	40	-1.60	-0.000917	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	50	-12.70	-0.007278	±2.5	PASS



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