



Appendix B

E-UTRA Band 4



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Shenzhen Branch (Electronics EEC Laboratory)

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
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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#2	23.10	21.94	30.00	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	23.37	22.21	30.00	PASS
Band4	1.4MHz	QPSK	19957	1RB#0	23.11	21.95	30.00	PASS
Band4	1.4MHz	QPSK	19957	3RB#3	23.21	22.05	30.00	PASS
Band4	1.4MHz	QPSK	19957	3RB#0	23.23	22.07	30.00	PASS
Band4	1.4MHz	QPSK	19957	3RB#1	23.19	22.03	30.00	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	22.27	21.11	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	23.15	21.99	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	23.28	22.12	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	23.15	21.99	30.00	PASS
Band4	1.4MHz	QPSK	20175	3RB#1	23.20	22.04	30.00	PASS
Band4	1.4MHz	QPSK	20175	3RB#3	23.29	22.13	30.00	PASS
Band4	1.4MHz	QPSK	20175	3RB#0	23.30	22.14	30.00	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	22.22	21.06	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	23.07	21.91	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	23.13	21.97	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	23.15	21.99	30.00	PASS
Band4	1.4MHz	QPSK	20393	3RB#1	23.13	21.97	30.00	PASS
Band4	1.4MHz	QPSK	20393	3RB#3	23.18	22.02	30.00	PASS
Band4	1.4MHz	QPSK	20393	3RB#0	23.26	22.10	30.00	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	22.17	21.01	30.00	PASS
Band4	1.4MHz	64QAM	19957	1RB#0	21.47	20.31	30.00	PASS
Band4	1.4MHz	64QAM	19957	1RB#2	21.13	19.97	30.00	PASS
Band4	1.4MHz	64QAM	19957	1RB#5	20.98	19.82	30.00	PASS
Band4	1.4MHz	64QAM	19957	3RB#0	21.14	19.98	30.00	PASS
Band4	1.4MHz	64QAM	19957	3RB#1	21.04	19.88	30.00	PASS
Band4	1.4MHz	64QAM	19957	3RB#3	21.20	20.04	30.00	PASS
Band4	1.4MHz	64QAM	19957	6RB#0	20.20	21.94	30.00	PASS



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Band4	1.4MHz	64QAM	20175	1RB#5	21.14	19.98	30.00	PASS
Band4	1.4MHz	64QAM	20175	1RB#2	21.29	20.13	30.00	PASS
Band4	1.4MHz	64QAM	20175	1RB#0	20.89	19.73	30.00	PASS
Band4	1.4MHz	64QAM	20175	3RB#0	21.11	19.95	30.00	PASS
Band4	1.4MHz	64QAM	20175	3RB#1	21.07	19.91	30.00	PASS
Band4	1.4MHz	64QAM	20175	3RB#3	21.11	19.95	30.00	PASS
Band4	1.4MHz	64QAM	20175	6RB#0	20.36	19.20	30.00	PASS
Band4	1.4MHz	64QAM	20393	1RB#0	21.12	19.96	30.00	PASS
Band4	1.4MHz	64QAM	20393	1RB#2	21.36	20.20	30.00	PASS
Band4	1.4MHz	64QAM	20393	1RB#5	21.44	20.28	30.00	PASS
Band4	1.4MHz	64QAM	20393	3RB#0	20.92	19.76	30.00	PASS
Band4	1.4MHz	64QAM	20393	3RB#1	21.22	20.06	30.00	PASS
Band4	1.4MHz	64QAM	20393	3RB#3	20.98	19.82	30.00	PASS
Band4	1.4MHz	64QAM	20393	6RB#0	20.14	18.98	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	22.58	21.42	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	22.23	21.07	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	22.08	20.92	30.00	PASS
Band4	1.4MHz	16QAM	19957	3RB#0	22.24	21.08	30.00	PASS
Band4	1.4MHz	16QAM	19957	3RB#1	22.16	21.00	30.00	PASS
Band4	1.4MHz	16QAM	19957	3RB#3	22.26	21.10	30.00	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	21.29	20.13	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	22.27	21.11	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	22.40	21.24	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	21.99	20.83	30.00	PASS
Band4	1.4MHz	16QAM	20175	3RB#1	22.23	21.07	30.00	PASS
Band4	1.4MHz	16QAM	20175	3RB#3	22.15	20.99	30.00	PASS
Band4	1.4MHz	16QAM	20175	3RB#0	22.19	21.03	30.00	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	21.43	20.27	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	22.24	21.08	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	22.42	21.26	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	22.50	21.34	30.00	PASS
Band4	1.4MHz	16QAM	20393	3RB#0	21.98	20.82	30.00	PASS
Band4	1.4MHz	16QAM	20393	3RB#1	22.33	21.17	30.00	PASS



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Band4	1.4MHz	16QAM	20393	3RB#3	22.07	20.91	30.00	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	21.28	20.12	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#14	23.41	22.25	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#0	23.11	21.95	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#8	22.19	21.03	30.00	PASS
Band4	3MHz	QPSK	19965	8RB#0	22.20	21.04	30.00	PASS
Band4	3MHz	QPSK	19965	8RB#4	22.24	21.08	30.00	PASS
Band4	3MHz	QPSK	19965	8RB#7	22.13	20.97	30.00	PASS
Band4	3MHz	QPSK	19965	15RB#0	22.42	21.26	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#0	23.28	22.12	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#8	23.22	22.06	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#14	22.22	21.06	30.00	PASS
Band4	3MHz	QPSK	20175	8RB#0	22.23	21.07	30.00	PASS
Band4	3MHz	QPSK	20175	8RB#4	22.24	21.08	30.00	PASS
Band4	3MHz	QPSK	20175	8RB#7	22.25	21.09	30.00	PASS
Band4	3MHz	QPSK	20175	15RB#0	21.96	20.80	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#14	23.19	22.03	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#8	23.15	21.99	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#0	22.08	20.92	30.00	PASS
Band4	3MHz	QPSK	20385	8RB#0	22.08	20.92	30.00	PASS
Band4	3MHz	QPSK	20385	8RB#7	22.19	21.03	30.00	PASS
Band4	3MHz	QPSK	20385	8RB#4	22.11	20.95	30.00	PASS
Band4	3MHz	QPSK	20385	15RB#0	22.12	20.96	30.00	PASS
Band4	3MHz	64QAM	19965	1RB#14	21.03	19.87	30.00	PASS
Band4	3MHz	64QAM	19965	1RB#0	21.08	19.92	30.00	PASS
Band4	3MHz	64QAM	19965	1RB#8	20.01	18.85	30.00	PASS
Band4	3MHz	64QAM	19965	8RB#7	20.16	19.00	30.00	PASS
Band4	3MHz	64QAM	19965	8RB#0	20.34	19.18	30.00	PASS
Band4	3MHz	64QAM	19965	8RB#4	20.25	19.09	30.00	PASS
Band4	3MHz	64QAM	19965	15RB#0	20.15	18.99	30.00	PASS
Band4	3MHz	64QAM	20175	1RB#14	21.61	20.45	30.00	PASS
Band4	3MHz	64QAM	20175	1RB#0	21.15	19.99	30.00	PASS
Band4	3MHz	64QAM	20175	1RB#8	20.41	19.25	30.00	PASS



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Band4	3MHz	64QAM	20175	8RB#7	20.25	19.09	30.00	PASS
Band4	3MHz	64QAM	20175	8RB#0	20.30	19.14	30.00	PASS
Band4	3MHz	64QAM	20175	8RB#4	20.21	19.05	30.00	PASS
Band4	3MHz	64QAM	20175	15RB#0	20.04	18.88	30.00	PASS
Band4	3MHz	64QAM	20385	1RB#0	21.41	20.25	30.00	PASS
Band4	3MHz	64QAM	20385	1RB#8	21.22	20.06	30.00	PASS
Band4	3MHz	64QAM	20385	1RB#14	20.23	19.07	30.00	PASS
Band4	3MHz	64QAM	20385	8RB#0	20.20	19.04	30.00	PASS
Band4	3MHz	64QAM	20385	8RB#4	20.06	18.90	30.00	PASS
Band4	3MHz	64QAM	20385	8RB#7	20.06	18.90	30.00	PASS
Band4	3MHz	64QAM	20385	15RB#0	20.19	19.03	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#8	22.17	21.01	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#0	22.18	21.02	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#14	21.16	20.00	30.00	PASS
Band4	3MHz	16QAM	19965	8RB#0	21.30	20.14	30.00	PASS
Band4	3MHz	16QAM	19965	8RB#4	21.41	20.25	30.00	PASS
Band4	3MHz	16QAM	19965	8RB#7	21.32	20.16	30.00	PASS
Band4	3MHz	16QAM	19965	15RB#0	21.20	20.04	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#14	22.76	21.60	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#0	22.25	21.09	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#8	21.48	20.32	30.00	PASS
Band4	3MHz	16QAM	20175	8RB#0	21.35	20.19	30.00	PASS
Band4	3MHz	16QAM	20175	8RB#4	21.37	20.21	30.00	PASS
Band4	3MHz	16QAM	20175	8RB#7	21.32	20.16	30.00	PASS
Band4	3MHz	16QAM	20175	15RB#0	21.06	19.90	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#14	22.52	21.36	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#8	22.27	21.11	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#0	21.33	20.17	30.00	PASS
Band4	3MHz	16QAM	20385	8RB#4	21.34	20.18	30.00	PASS
Band4	3MHz	16QAM	20385	8RB#7	21.19	20.03	30.00	PASS
Band4	3MHz	16QAM	20385	8RB#0	21.19	20.03	30.00	PASS
Band4	3MHz	16QAM	20385	15RB#0	21.31	20.15	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#24	23.08	21.92	30.00	PASS



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Band4	5MHz	QPSK	19975	1RB#12	23.22	22.06	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#0	23.19	22.03	30.00	PASS
Band4	5MHz	QPSK	19975	12RB#0	22.15	20.99	30.00	PASS
Band4	5MHz	QPSK	19975	12RB#6	22.18	21.02	30.00	PASS
Band4	5MHz	QPSK	19975	12RB#13	22.18	21.02	30.00	PASS
Band4	5MHz	QPSK	19975	25RB#0	22.17	21.01	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#12	23.05	21.89	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#0	23.23	22.07	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#24	23.10	21.94	30.00	PASS
Band4	5MHz	QPSK	20175	12RB#13	22.24	21.08	30.00	PASS
Band4	5MHz	QPSK	20175	12RB#6	22.33	21.17	30.00	PASS
Band4	5MHz	QPSK	20175	12RB#0	22.19	21.03	30.00	PASS
Band4	5MHz	QPSK	20175	25RB#0	22.22	21.06	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#12	23.02	21.86	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#24	23.09	21.93	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#0	23.04	21.88	30.00	PASS
Band4	5MHz	QPSK	20375	12RB#13	22.14	20.98	30.00	PASS
Band4	5MHz	QPSK	20375	12RB#6	22.19	21.03	30.00	PASS
Band4	5MHz	QPSK	20375	12RB#0	22.10	20.94	30.00	PASS
Band4	5MHz	QPSK	20375	25RB#0	22.15	20.99	30.00	PASS
Band4	5MHz	64QAM	19975	1RB#12	21.42	20.26	30.00	PASS
Band4	5MHz	64QAM	19975	1RB#0	21.38	20.22	30.00	PASS
Band4	5MHz	64QAM	19975	1RB#24	21.43	20.27	30.00	PASS
Band4	5MHz	64QAM	19975	12RB#0	20.11	18.95	30.00	PASS
Band4	5MHz	64QAM	19975	12RB#6	20.14	18.98	30.00	PASS
Band4	5MHz	64QAM	19975	12RB#13	20.12	18.96	30.00	PASS
Band4	5MHz	64QAM	19975	25RB#0	20.14	18.98	30.00	PASS
Band4	5MHz	64QAM	20175	1RB#24	21.19	20.03	30.00	PASS
Band4	5MHz	64QAM	20175	1RB#12	21.27	20.11	30.00	PASS
Band4	5MHz	64QAM	20175	1RB#0	21.12	19.96	30.00	PASS
Band4	5MHz	64QAM	20175	12RB#0	20.02	18.86	30.00	PASS
Band4	5MHz	64QAM	20175	12RB#6	20.27	19.11	30.00	PASS
Band4	5MHz	64QAM	20175	12RB#13	20.04	18.88	30.00	PASS



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Band4	5MHz	64QAM	20175	25RB#0	20.26	19.10	30.00	PASS
Band4	5MHz	64QAM	20375	1RB#24	21.13	19.97	30.00	PASS
Band4	5MHz	64QAM	20375	1RB#12	21.11	19.95	30.00	PASS
Band4	5MHz	64QAM	20375	1RB#0	20.95	19.79	30.00	PASS
Band4	5MHz	64QAM	20375	12RB#13	20.07	18.91	30.00	PASS
Band4	5MHz	64QAM	20375	12RB#6	20.04	18.88	30.00	PASS
Band4	5MHz	64QAM	20375	12RB#0	19.95	18.79	30.00	PASS
Band4	5MHz	64QAM	20375	25RB#0	20.18	19.02	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#24	22.47	21.31	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#0	22.43	21.27	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#12	22.48	21.32	30.00	PASS
Band4	5MHz	16QAM	19975	12RB#0	21.16	20.00	30.00	PASS
Band4	5MHz	16QAM	19975	12RB#6	21.21	20.05	30.00	PASS
Band4	5MHz	16QAM	19975	12RB#13	21.22	20.06	30.00	PASS
Band4	5MHz	16QAM	19975	25RB#0	21.28	20.12	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#0	22.27	21.11	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#12	22.38	21.22	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#24	22.19	21.03	30.00	PASS
Band4	5MHz	16QAM	20175	12RB#0	21.15	19.99	30.00	PASS
Band4	5MHz	16QAM	20175	12RB#6	21.32	20.16	30.00	PASS
Band4	5MHz	16QAM	20175	12RB#13	21.10	19.94	30.00	PASS
Band4	5MHz	16QAM	20175	25RB#0	21.32	20.16	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#12	22.18	21.02	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#24	22.23	21.07	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#0	22.10	20.94	30.00	PASS
Band4	5MHz	16QAM	20375	12RB#0	21.15	19.99	30.00	PASS
Band4	5MHz	16QAM	20375	12RB#6	21.13	19.97	30.00	PASS
Band4	5MHz	16QAM	20375	12RB#13	21.04	19.88	30.00	PASS
Band4	5MHz	16QAM	20375	25RB#0	21.27	20.11	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#0	23.11	21.95	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#24	23.40	22.24	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#49	23.11	21.95	30.00	PASS
Band4	10MHz	QPSK	20000	25RB#0	22.26	21.10	30.00	PASS



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Band4	10MHz	QPSK	20000	25RB#12	22.26	21.10	30.00	PASS
Band4	10MHz	QPSK	20000	25RB#25	22.23	21.07	30.00	PASS
Band4	10MHz	QPSK	20000	50RB#0	22.25	21.09	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#49	23.16	22.00	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#0	23.19	22.03	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#24	23.19	22.03	30.00	PASS
Band4	10MHz	QPSK	20175	25RB#0	22.16	21.00	30.00	PASS
Band4	10MHz	QPSK	20175	25RB#12	22.24	21.08	30.00	PASS
Band4	10MHz	QPSK	20175	25RB#25	22.23	21.07	30.00	PASS
Band4	10MHz	QPSK	20175	50RB#0	22.30	21.14	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#0	23.07	21.91	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#24	23.09	21.93	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#49	23.08	21.92	30.00	PASS
Band4	10MHz	QPSK	20350	25RB#25	22.28	21.12	30.00	PASS
Band4	10MHz	QPSK	20350	25RB#0	22.29	21.13	30.00	PASS
Band4	10MHz	QPSK	20350	25RB#12	22.13	20.97	30.00	PASS
Band4	10MHz	QPSK	20350	50RB#0	22.20	21.04	30.00	PASS
Band4	10MHz	64QAM	20000	1RB#0	21.04	19.88	30.00	PASS
Band4	10MHz	64QAM	20000	1RB#24	21.40	20.24	30.00	PASS
Band4	10MHz	64QAM	20000	1RB#49	21.37	20.21	30.00	PASS
Band4	10MHz	64QAM	20000	25RB#12	20.19	19.03	30.00	PASS
Band4	10MHz	64QAM	20000	25RB#0	20.18	19.02	30.00	PASS
Band4	10MHz	64QAM	20000	25RB#25	20.20	19.04	30.00	PASS
Band4	10MHz	64QAM	20000	50RB#0	20.18	19.02	30.00	PASS
Band4	10MHz	64QAM	20175	1RB#49	20.87	19.71	30.00	PASS
Band4	10MHz	64QAM	20175	1RB#24	21.42	20.26	30.00	PASS
Band4	10MHz	64QAM	20175	1RB#0	21.66	20.50	30.00	PASS
Band4	10MHz	64QAM	20175	25RB#0	20.13	18.97	30.00	PASS
Band4	10MHz	64QAM	20175	25RB#12	20.21	19.05	30.00	PASS
Band4	10MHz	64QAM	20175	25RB#25	20.19	19.03	30.00	PASS
Band4	10MHz	64QAM	20175	50RB#0	20.18	19.02	30.00	PASS
Band4	10MHz	64QAM	20350	1RB#49	21.25	20.09	30.00	PASS
Band4	10MHz	64QAM	20350	1RB#0	21.79	20.63	30.00	PASS



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Band4	10MHz	64QAM	20350	1RB#24	21.62	20.46	30.00	PASS
Band4	10MHz	64QAM	20350	25RB#0	20.23	19.07	30.00	PASS
Band4	10MHz	64QAM	20350	25RB#12	20.20	19.04	30.00	PASS
Band4	10MHz	64QAM	20350	25RB#25	20.16	19.00	30.00	PASS
Band4	10MHz	64QAM	20350	50RB#0	20.13	18.97	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#0	22.13	20.97	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#24	22.55	21.39	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#49	22.46	21.30	30.00	PASS
Band4	10MHz	16QAM	20000	25RB#12	21.30	20.14	30.00	PASS
Band4	10MHz	16QAM	20000	25RB#0	21.28	20.12	30.00	PASS
Band4	10MHz	16QAM	20000	25RB#25	21.34	20.18	30.00	PASS
Band4	10MHz	16QAM	20000	50RB#0	21.23	20.07	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#24	21.98	20.82	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#0	22.55	21.39	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#49	22.79	21.63	30.00	PASS
Band4	10MHz	16QAM	20175	25RB#12	21.25	20.09	30.00	PASS
Band4	10MHz	16QAM	20175	25RB#25	21.31	20.15	30.00	PASS
Band4	10MHz	16QAM	20175	25RB#0	21.32	20.16	30.00	PASS
Band4	10MHz	16QAM	20175	50RB#0	21.23	20.07	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#0	22.34	21.18	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#24	22.87	21.71	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#49	22.68	21.52	30.00	PASS
Band4	10MHz	16QAM	20350	25RB#25	21.36	20.20	30.00	PASS
Band4	10MHz	16QAM	20350	25RB#12	21.34	20.18	30.00	PASS
Band4	10MHz	16QAM	20350	25RB#0	21.31	20.15	30.00	PASS
Band4	10MHz	16QAM	20350	50RB#0	21.26	20.10	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#0	23.13	21.97	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#74	23.20	22.04	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#38	23.12	21.96	30.00	PASS
Band4	15MHz	QPSK	20025	36RB#0	22.14	20.98	30.00	PASS
Band4	15MHz	QPSK	20025	36RB#18	22.20	21.04	30.00	PASS
Band4	15MHz	QPSK	20025	36RB#39	22.18	21.02	30.00	PASS
Band4	15MHz	QPSK	20025	75RB#0	22.13	20.97	30.00	PASS



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Band4	15MHz	QPSK	20175	1RB#0	23.00	21.84	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#38	23.12	21.96	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#74	23.09	21.93	30.00	PASS
Band4	15MHz	QPSK	20175	36RB#0	22.15	20.99	30.00	PASS
Band4	15MHz	QPSK	20175	36RB#39	22.20	21.04	30.00	PASS
Band4	15MHz	QPSK	20175	36RB#18	22.11	20.95	30.00	PASS
Band4	15MHz	QPSK	20175	75RB#0	22.16	21.00	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#38	23.12	21.96	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#74	23.23	22.07	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#0	23.21	22.05	30.00	PASS
Band4	15MHz	QPSK	20325	36RB#0	22.31	21.15	30.00	PASS
Band4	15MHz	QPSK	20325	36RB#18	22.25	21.09	30.00	PASS
Band4	15MHz	QPSK	20325	36RB#39	22.15	20.99	30.00	PASS
Band4	15MHz	QPSK	20325	75RB#0	22.21	21.05	30.00	PASS
Band4	15MHz	64QAM	20025	1RB#0	21.09	19.93	30.00	PASS
Band4	15MHz	64QAM	20025	1RB#38	21.17	20.01	30.00	PASS
Band4	15MHz	64QAM	20025	1RB#74	21.35	20.19	30.00	PASS
Band4	15MHz	64QAM	20025	36RB#0	20.15	18.99	30.00	PASS
Band4	15MHz	64QAM	20025	36RB#18	20.20	19.04	30.00	PASS
Band4	15MHz	64QAM	20025	36RB#39	20.15	18.99	30.00	PASS
Band4	15MHz	64QAM	20025	75RB#0	20.06	18.90	30.00	PASS
Band4	15MHz	64QAM	20175	1RB#0	21.02	19.86	30.00	PASS
Band4	15MHz	64QAM	20175	1RB#38	21.26	20.10	30.00	PASS
Band4	15MHz	64QAM	20175	1RB#74	21.42	20.26	30.00	PASS
Band4	15MHz	64QAM	20175	36RB#39	19.96	18.80	30.00	PASS
Band4	15MHz	64QAM	20175	36RB#18	20.09	18.93	30.00	PASS
Band4	15MHz	64QAM	20175	36RB#0	20.07	18.91	30.00	PASS
Band4	15MHz	64QAM	20175	75RB#0	20.11	18.95	30.00	PASS
Band4	15MHz	64QAM	20325	1RB#0	21.03	19.87	30.00	PASS
Band4	15MHz	64QAM	20325	1RB#74	21.43	20.27	30.00	PASS
Band4	15MHz	64QAM	20325	1RB#38	21.51	20.35	30.00	PASS
Band4	15MHz	64QAM	20325	36RB#39	20.09	18.93	30.00	PASS
Band4	15MHz	64QAM	20325	36RB#0	20.15	18.99	30.00	PASS



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Band4	15MHz	64QAM	20325	36RB#18	20.08	18.92	30.00	PASS
Band4	15MHz	64QAM	20325	75RB#0	20.19	19.03	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#74	22.21	21.05	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#0	22.26	21.10	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#38	22.46	21.30	30.00	PASS
Band4	15MHz	16QAM	20025	36RB#39	21.25	20.09	30.00	PASS
Band4	15MHz	16QAM	20025	36RB#18	21.31	20.15	30.00	PASS
Band4	15MHz	16QAM	20025	36RB#0	21.21	20.05	30.00	PASS
Band4	15MHz	16QAM	20025	75RB#0	21.16	20.00	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#38	22.08	20.92	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#74	22.39	21.23	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#0	22.49	21.33	30.00	PASS
Band4	15MHz	16QAM	20175	36RB#0	21.11	19.95	30.00	PASS
Band4	15MHz	16QAM	20175	36RB#18	21.24	20.08	30.00	PASS
Band4	15MHz	16QAM	20175	36RB#39	21.13	19.97	30.00	PASS
Band4	15MHz	16QAM	20175	75RB#0	21.17	20.01	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#0	22.13	20.97	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#38	22.56	21.40	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#74	22.66	21.50	30.00	PASS
Band4	15MHz	16QAM	20325	36RB#0	21.18	20.02	30.00	PASS
Band4	15MHz	16QAM	20325	36RB#18	21.28	20.12	30.00	PASS
Band4	15MHz	16QAM	20325	36RB#39	21.22	20.06	30.00	PASS
Band4	15MHz	16QAM	20325	75RB#0	21.34	20.18	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#99	23.03	21.87	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#0	23.09	21.93	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#49	22.99	21.83	30.00	PASS
Band4	20MHz	QPSK	20050	50RB#0	22.07	20.91	30.00	PASS
Band4	20MHz	QPSK	20050	50RB#25	22.17	21.01	30.00	PASS
Band4	20MHz	QPSK	20050	50RB#50	22.18	21.02	30.00	PASS
Band4	20MHz	QPSK	20050	100RB#0	22.25	21.09	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#0	23.00	21.84	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#99	23.11	21.95	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#49	22.97	21.81	30.00	PASS



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Band4	20MHz	QPSK	20175	50RB#50	22.21	21.05	30.00	PASS
Band4	20MHz	QPSK	20175	50RB#25	22.12	20.96	30.00	PASS
Band4	20MHz	QPSK	20175	50RB#0	22.14	20.98	30.00	PASS
Band4	20MHz	QPSK	20175	100RB#0	22.20	21.04	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#99	23.01	21.85	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#49	23.10	21.94	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#0	22.88	21.72	30.00	PASS
Band4	20MHz	QPSK	20300	50RB#50	22.14	20.98	30.00	PASS
Band4	20MHz	QPSK	20300	50RB#25	22.22	21.06	30.00	PASS
Band4	20MHz	QPSK	20300	50RB#0	22.11	20.95	30.00	PASS
Band4	20MHz	QPSK	20300	100RB#0	22.13	20.97	30.00	PASS
Band4	20MHz	64QAM	20050	1RB#0	21.28	20.12	30.00	PASS
Band4	20MHz	64QAM	20050	1RB#49	21.46	20.30	30.00	PASS
Band4	20MHz	64QAM	20050	1RB#99	21.38	20.22	30.00	PASS
Band4	20MHz	64QAM	20050	50RB#0	20.27	19.11	30.00	PASS
Band4	20MHz	64QAM	20050	50RB#50	20.36	19.20	30.00	PASS
Band4	20MHz	64QAM	20050	50RB#25	20.30	19.14	30.00	PASS
Band4	20MHz	64QAM	20050	100RB#0	20.26	19.10	30.00	PASS
Band4	20MHz	64QAM	20175	1RB#0	21.27	20.11	30.00	PASS
Band4	20MHz	64QAM	20175	1RB#49	21.62	20.46	30.00	PASS
Band4	20MHz	64QAM	20175	1RB#99	21.41	20.25	30.00	PASS
Band4	20MHz	64QAM	20175	50RB#0	20.33	19.17	30.00	PASS
Band4	20MHz	64QAM	20175	50RB#25	20.21	19.05	30.00	PASS
Band4	20MHz	64QAM	20175	50RB#50	20.26	19.10	30.00	PASS
Band4	20MHz	64QAM	20175	100RB#0	20.23	19.07	30.00	PASS
Band4	20MHz	64QAM	20300	1RB#0	21.13	19.97	30.00	PASS
Band4	20MHz	64QAM	20300	1RB#49	21.68	20.52	30.00	PASS
Band4	20MHz	64QAM	20300	1RB#99	21.10	19.94	30.00	PASS
Band4	20MHz	64QAM	20300	50RB#25	20.14	18.98	30.00	PASS
Band4	20MHz	64QAM	20300	50RB#50	20.28	19.12	30.00	PASS
Band4	20MHz	64QAM	20300	50RB#0	20.22	19.06	30.00	PASS
Band4	20MHz	64QAM	20300	100RB#0	20.28	19.12	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#99	22.29	21.13	30.00	PASS



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Band4	20MHz	16QAM	20050	1RB#0	22.35	21.19	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#49	22.48	21.32	30.00	PASS
Band4	20MHz	16QAM	20050	50RB#25	21.08	19.92	30.00	PASS
Band4	20MHz	16QAM	20050	50RB#50	21.25	20.09	30.00	PASS
Band4	20MHz	16QAM	20050	50RB#0	21.31	20.15	30.00	PASS
Band4	20MHz	16QAM	20050	100RB#0	21.14	19.98	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#49	22.39	21.23	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#99	22.36	21.20	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#0	22.15	20.99	30.00	PASS
Band4	20MHz	16QAM	20175	50RB#25	21.26	20.10	30.00	PASS
Band4	20MHz	16QAM	20175	50RB#50	21.24	20.08	30.00	PASS
Band4	20MHz	16QAM	20175	50RB#0	21.18	20.02	30.00	PASS
Band4	20MHz	16QAM	20175	100RB#0	21.12	19.96	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#99	22.50	21.34	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#49	22.43	21.27	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#0	22.53	21.37	30.00	PASS
Band4	20MHz	16QAM	20300	50RB#25	21.15	19.99	30.00	PASS
Band4	20MHz	16QAM	20300	50RB#0	21.27	20.11	30.00	PASS
Band4	20MHz	16QAM	20300	50RB#50	21.22	20.06	30.00	PASS
Band4	20MHz	16QAM	20300	100RB#0	21.26	20.10	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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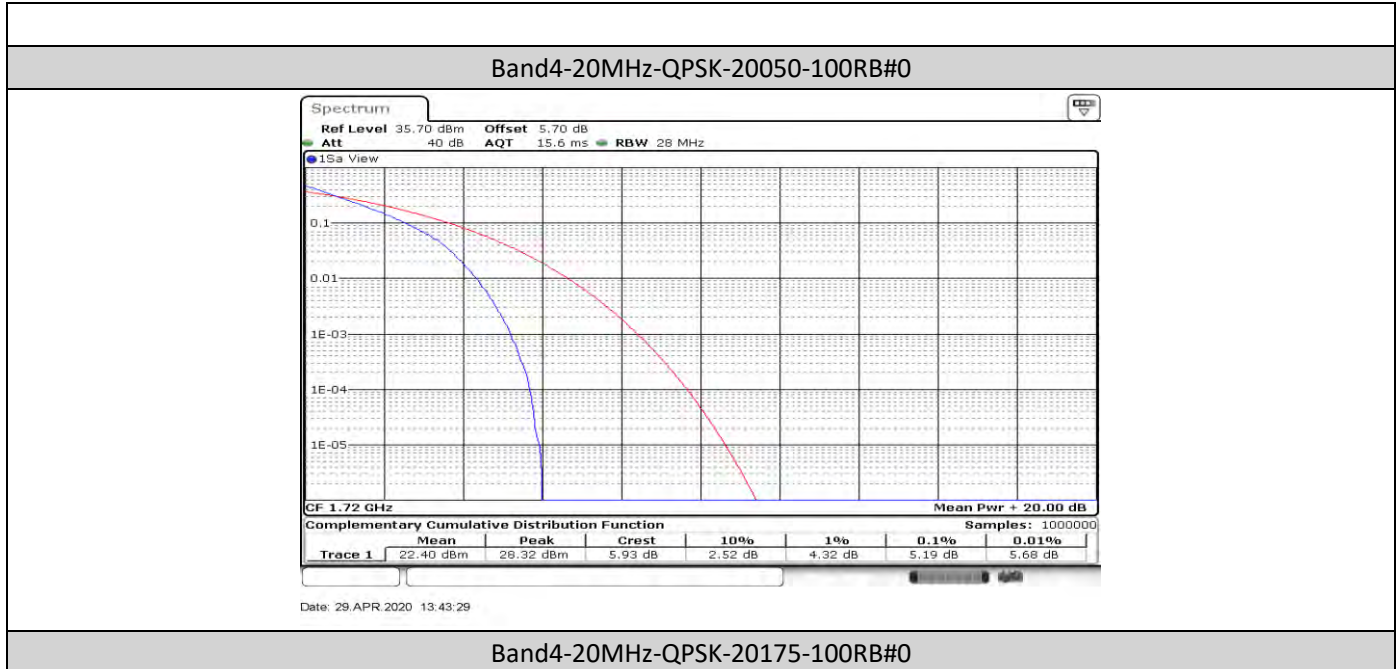
2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

2.2. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band4	20MHz	QPSK	20050	100RB#0	5.19	13	PASS
Band4	20MHz	QPSK	20175	100RB#0	5.19	13	PASS
Band4	20MHz	QPSK	20300	100RB#0	5.19	13	PASS
Band4	20MHz	64QAM	20050	100RB#0	6.35	13	PASS
Band4	20MHz	64QAM	20175	100RB#0	6.32	13	PASS
Band4	20MHz	64QAM	20300	100RB#0	8.55	13	PASS
Band4	20MHz	16QAM	20050	100RB#0	6.03	13	PASS
Band4	20MHz	16QAM	20175	100RB#0	5.88	13	PASS
Band4	20MHz	16QAM	20300	100RB#0	6.17	13	PASS

2.3. Test Plots





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



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



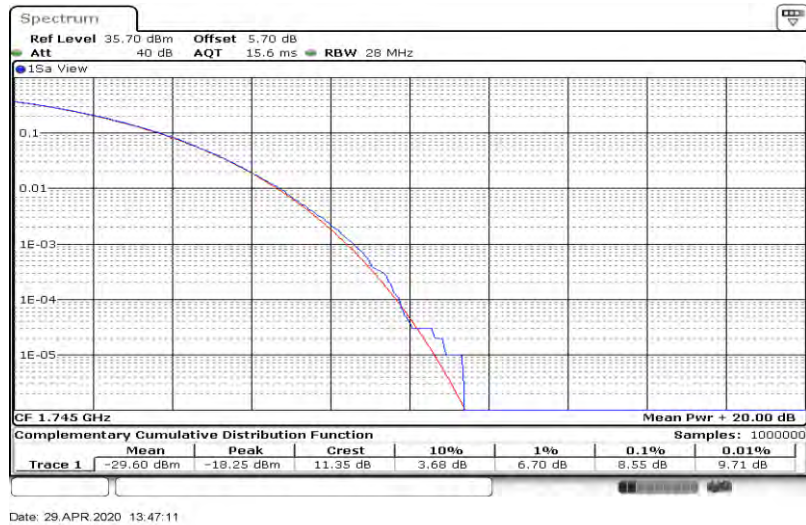


Band4-20MHz-64QAM-20175-100RB#0



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



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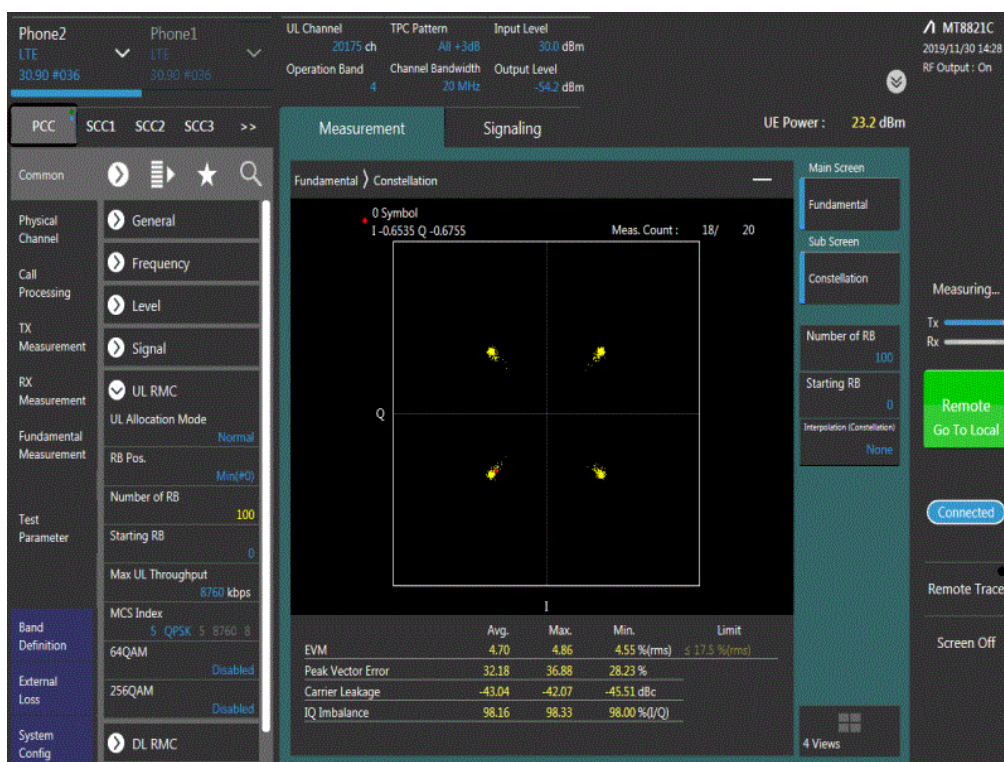
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3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 20MHz

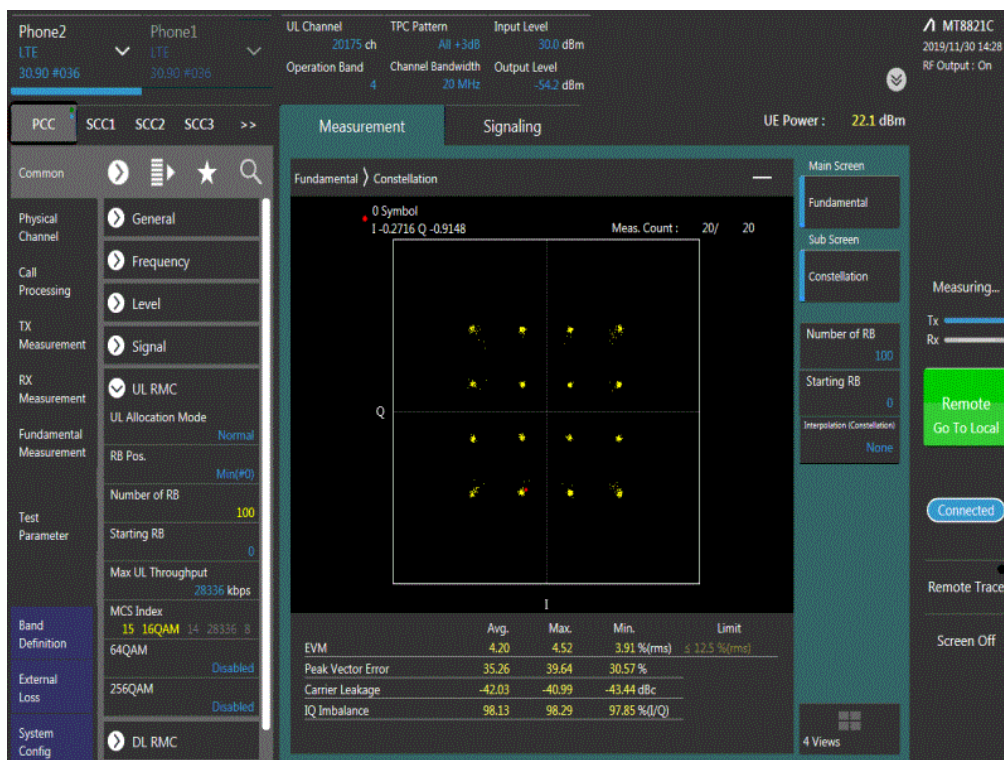
3.1.1. Test Channel = MCH





3.2. Test Mode = LTE /TM2 20MHz

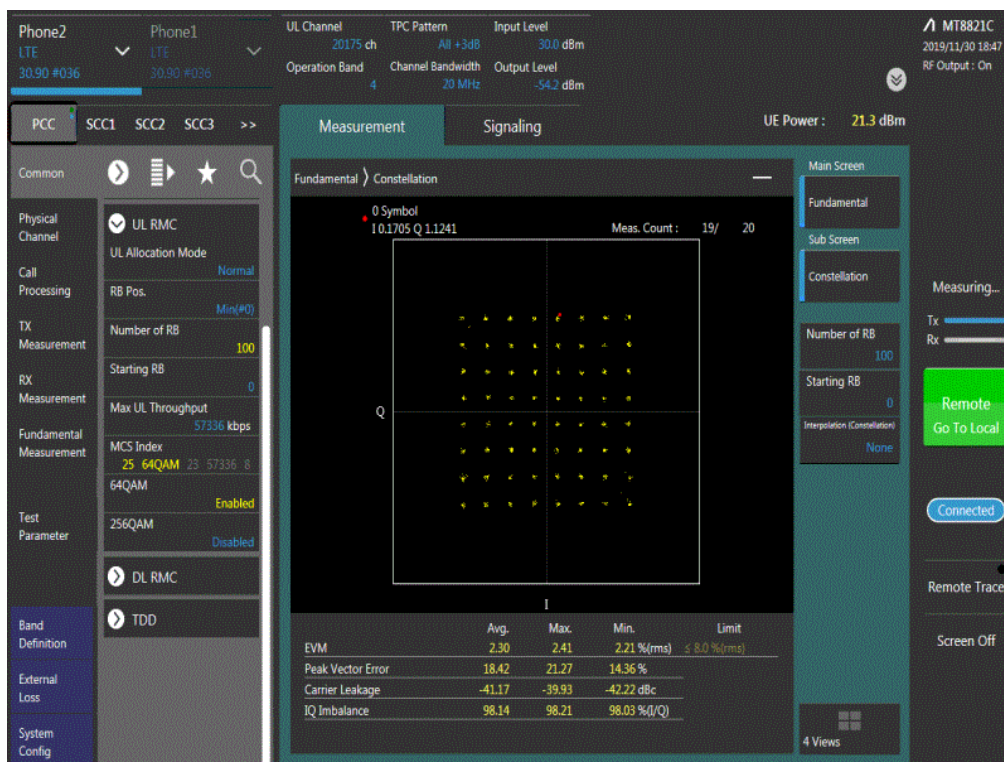
3.2.1. Test Channel = MCH





3.3. Test Mode = LTE /TM3 20MHz

3.3.1. Test Channel = MCH





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	1.088	1.281	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	1.085	1.260	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	1.088	1.284	PASS
Band4	1.4MHz	64QAM	19957	6RB#0	1.094	1.263	PASS
Band4	1.4MHz	64QAM	20175	6RB#0	1.091	1.248	PASS
Band4	1.4MHz	64QAM	20393	6RB#0	1.091	1.284	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	1.091	1.284	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	1.088	1.281	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	1.091	1.284	PASS
Band4	3MHz	QPSK	19965	15RB#0	2.685	2.886	PASS
Band4	3MHz	QPSK	20175	15RB#0	2.691	2.898	PASS
Band4	3MHz	QPSK	20385	15RB#0	2.685	2.874	PASS
Band4	3MHz	64QAM	19965	15RB#0	2.458	2.604	PASS
Band4	3MHz	64QAM	20175	15RB#0	2.679	2.862	PASS
Band4	3MHz	64QAM	20385	15RB#0	2.679	2.850	PASS
Band4	3MHz	16QAM	19965	15RB#0	2.673	2.886	PASS
Band4	3MHz	16QAM	20175	15RB#0	2.673	2.862	PASS
Band4	3MHz	16QAM	20385	15RB#0	2.673	2.868	PASS
Band4	5MHz	QPSK	19975	25RB#0	4.486	4.780	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.476	4.750	PASS
Band4	5MHz	QPSK	20375	25RB#0	4.476	4.710	PASS
Band4	5MHz	64QAM	19975	25RB#0	4.466	4.740	PASS
Band4	5MHz	64QAM	20175	25RB#0	4.486	4.730	PASS
Band4	5MHz	64QAM	20375	25RB#0	4.466	4.710	PASS
Band4	5MHz	16QAM	19975	25RB#0	4.486	4.770	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.476	4.780	PASS
Band4	5MHz	16QAM	20375	25RB#0	4.496	4.770	PASS
Band4	10MHz	QPSK	20000	50RB#0	8.951	9.400	PASS
Band4	10MHz	QPSK	20175	50RB#0	8.951	9.500	PASS
Band4	10MHz	QPSK	20350	50RB#0	9.031	9.400	PASS
Band4	10MHz	64QAM	20000	50RB#0	8.951	9.520	PASS
Band4	10MHz	64QAM	20175	50RB#0	8.951	9.460	PASS



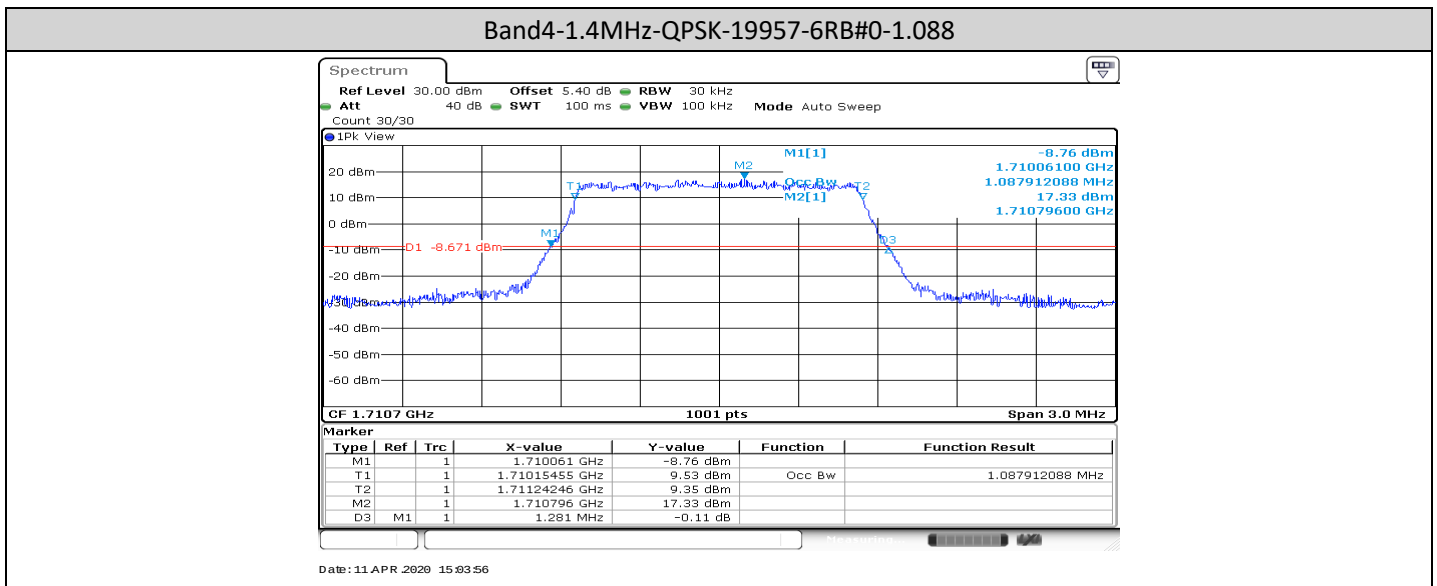
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Band4	10MHz	64QAM	20350	50RB#0	8.951	9.420	PASS
Band4	10MHz	16QAM	20000	50RB#0	8.931	9.520	PASS
Band4	10MHz	16QAM	20175	50RB#0	8.951	9.440	PASS
Band4	10MHz	16QAM	20350	50RB#0	8.971	9.440	PASS
Band4	15MHz	QPSK	20025	75RB#0	13.487	14.670	PASS
Band4	15MHz	QPSK	20175	75RB#0	13.576	14.550	PASS
Band4	15MHz	QPSK	20325	75RB#0	13.576	14.670	PASS
Band4	15MHz	64QAM	20025	75RB#0	13.576	14.490	PASS
Band4	15MHz	64QAM	20175	75RB#0	13.546	14.400	PASS
Band4	15MHz	64QAM	20325	75RB#0	13.397	14.160	PASS
Band4	15MHz	16QAM	20025	75RB#0	13.606	14.400	PASS
Band4	15MHz	16QAM	20175	75RB#0	13.576	14.580	PASS
Band4	15MHz	16QAM	20325	75RB#0	13.576	14.490	PASS
Band4	20MHz	QPSK	20050	100RB#0	18.022	19.120	PASS
Band4	20MHz	QPSK	20175	100RB#0	18.102	18.800	PASS
Band4	20MHz	QPSK	20300	100RB#0	18.022	19.000	PASS
Band4	20MHz	64QAM	20050	100RB#0	18.062	18.960	PASS
Band4	20MHz	64QAM	20175	100RB#0	18.062	18.960	PASS
Band4	20MHz	64QAM	20300	100RB#0	18.062	19.040	PASS
Band4	20MHz	16QAM	20050	100RB#0	17.902	20.120	PASS
Band4	20MHz	16QAM	20175	100RB#0	18.022	19.080	PASS
Band4	20MHz	16QAM	20300	100RB#0	18.062	18.920	PASS

4.2. Test Plots



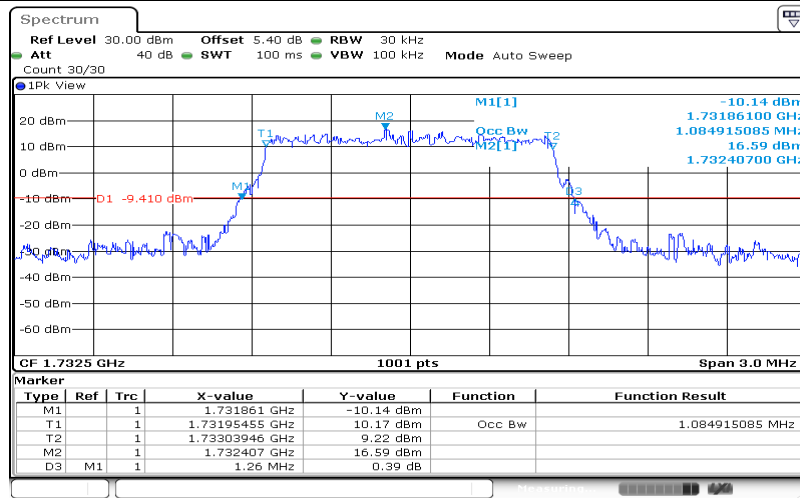
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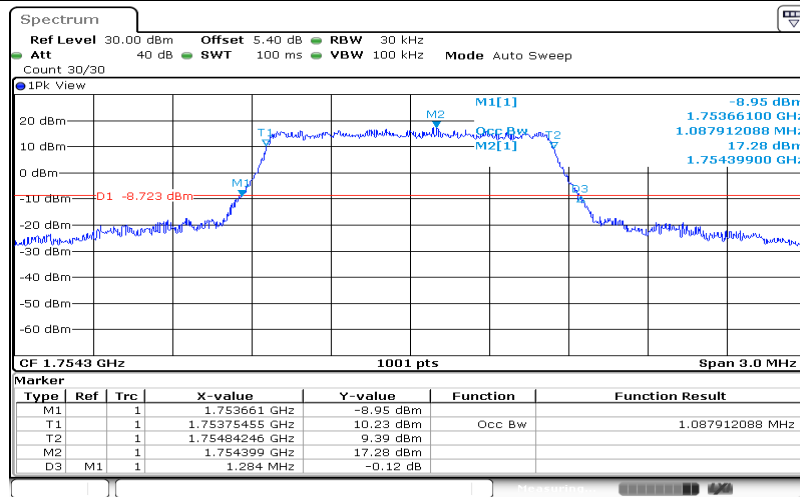


Band4-1.4MHz-QPSK-20175-6RB#0-1.085



Date: 11 APR 2020 15:04:43

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



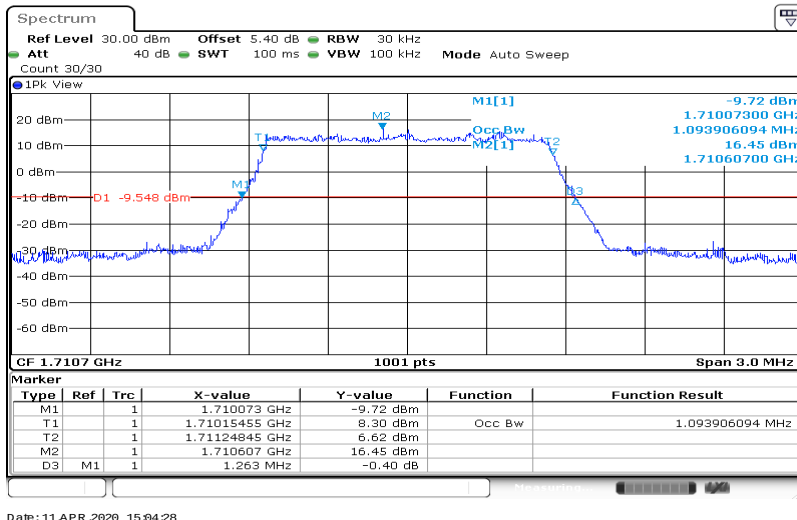
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Band4-1.4MHz-64QAM-19957-6RB#0-1.094

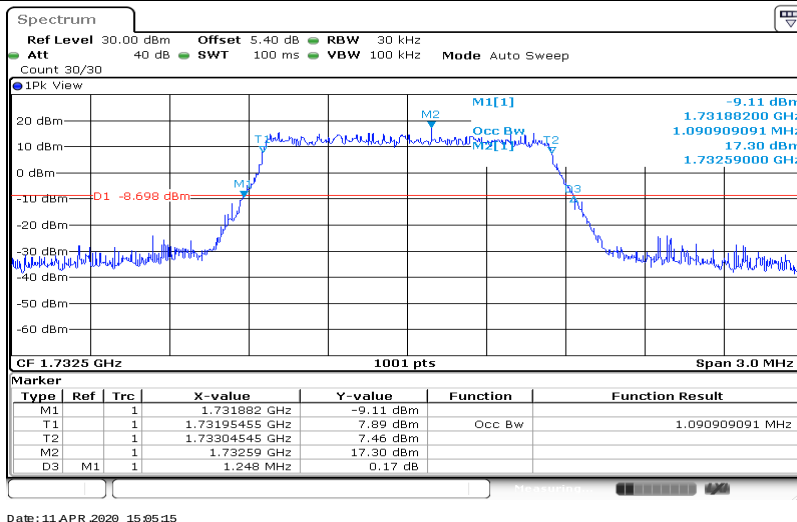


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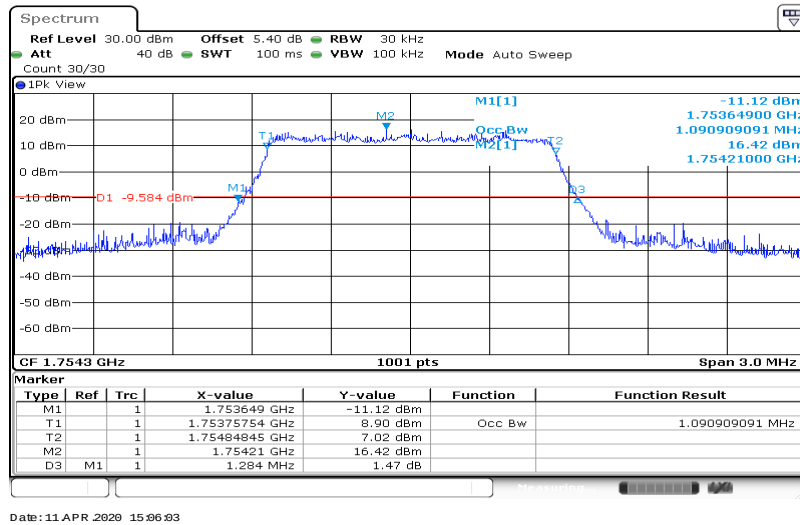


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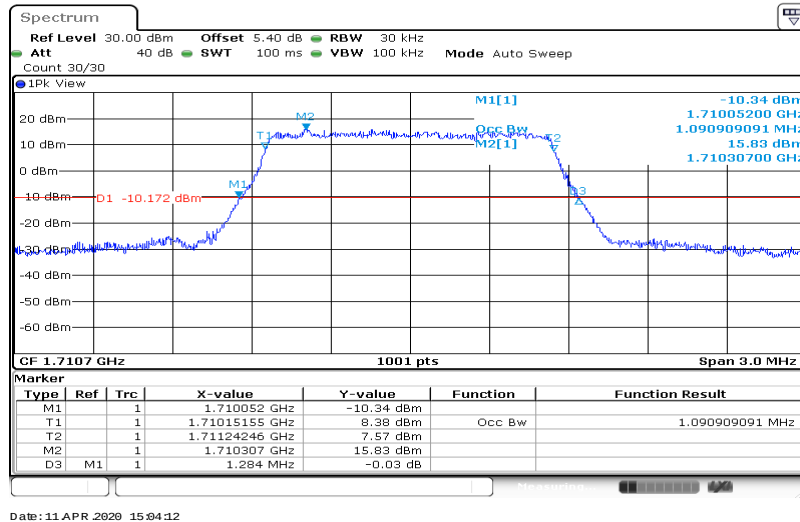


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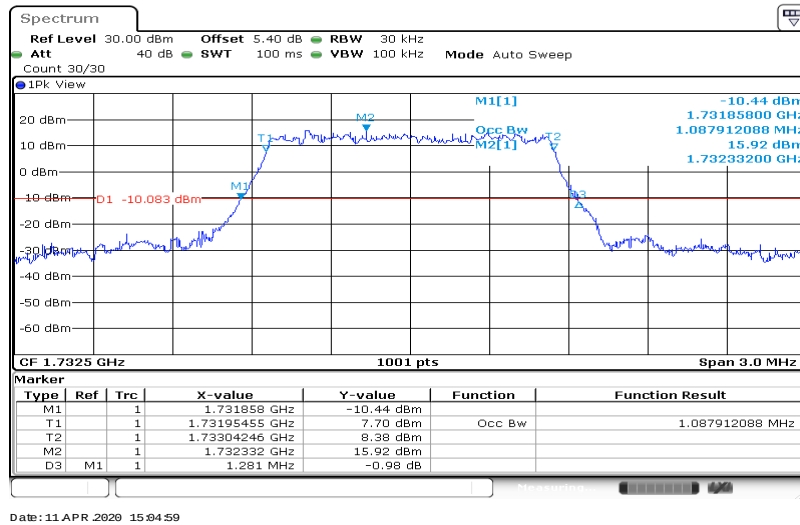


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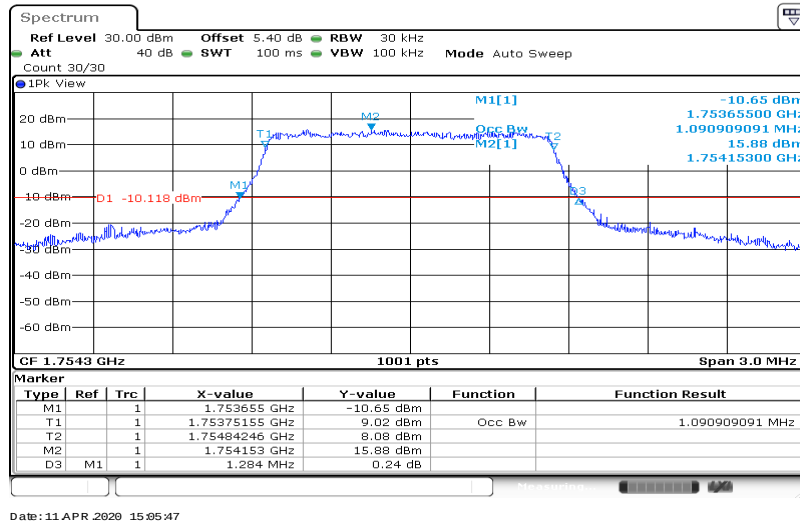


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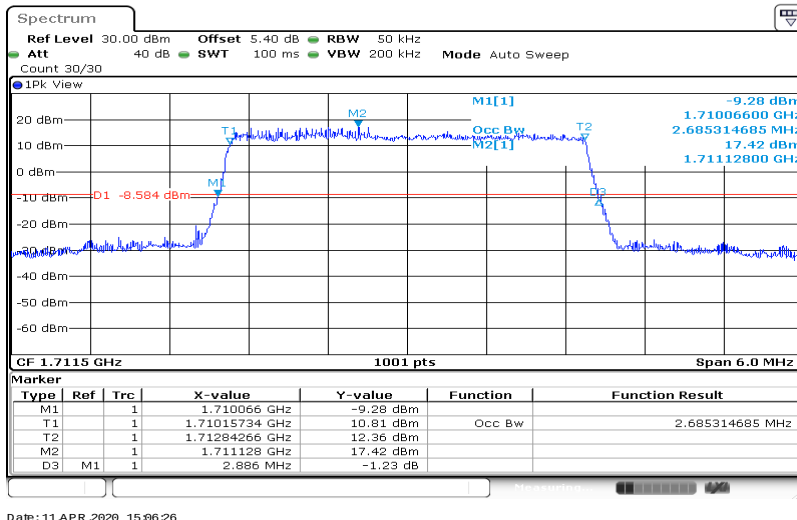


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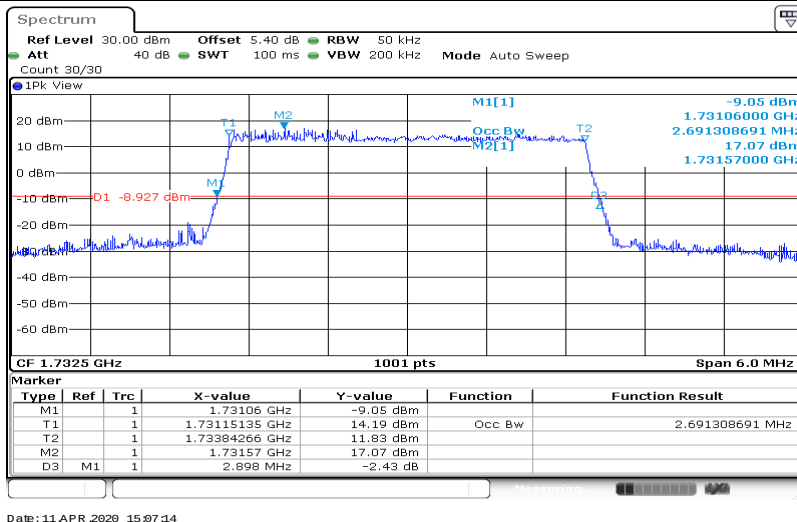


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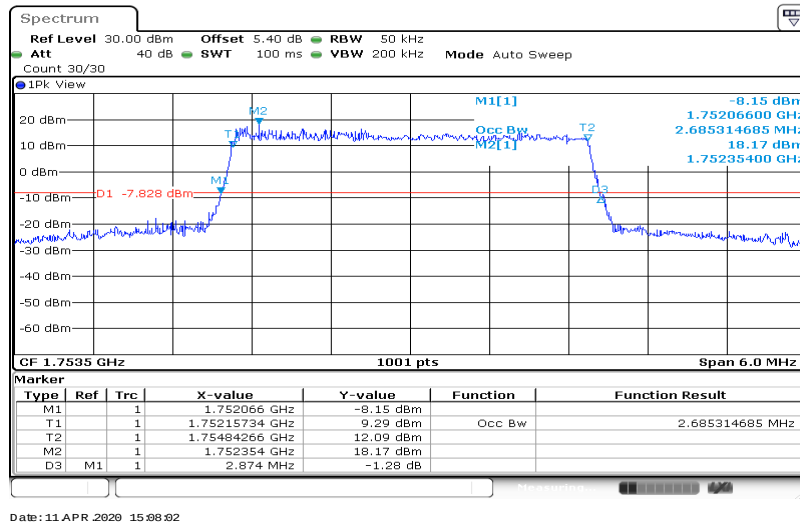


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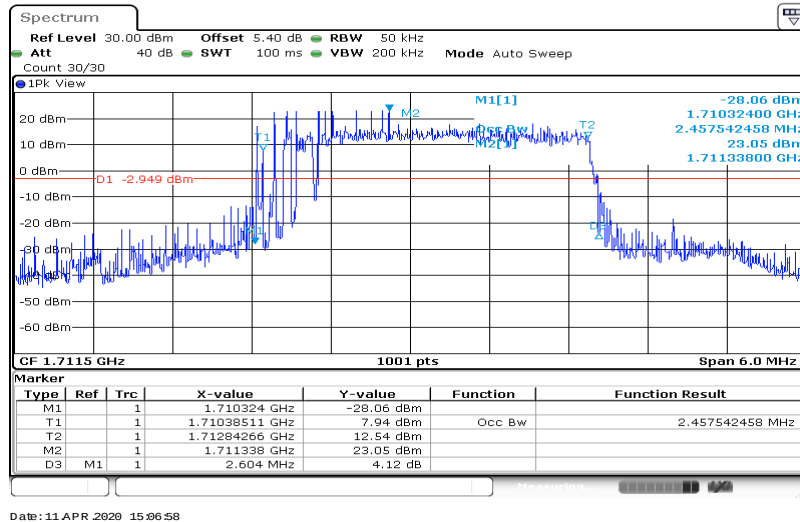


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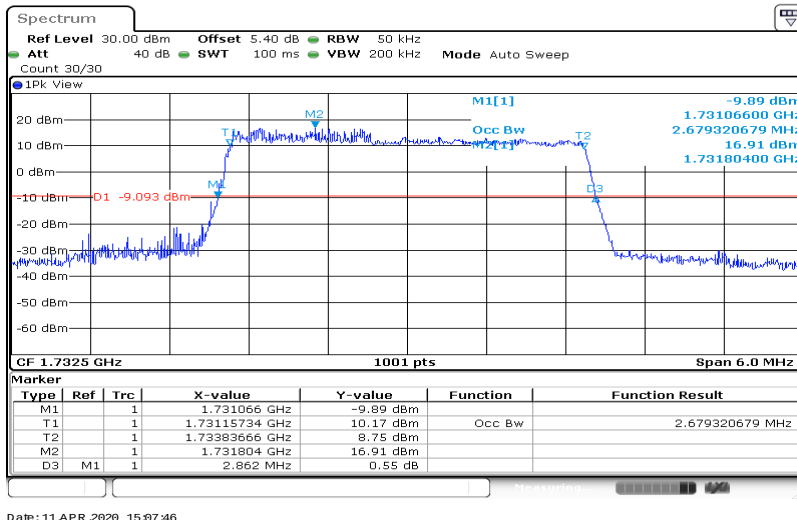


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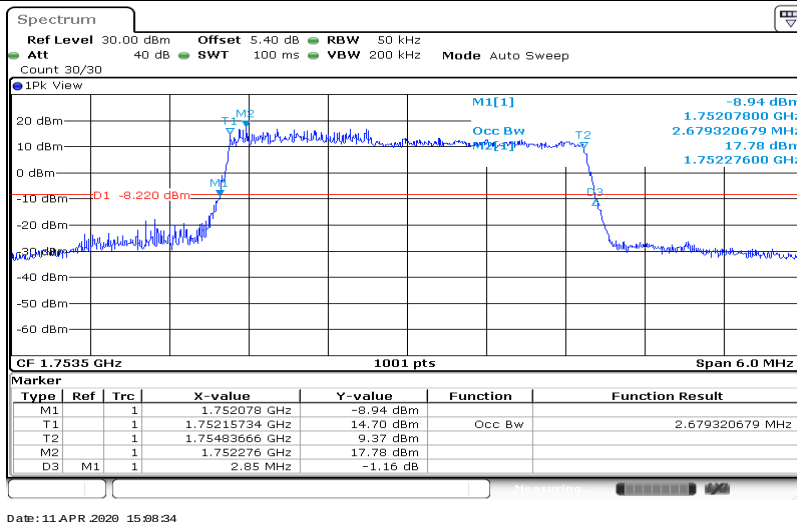


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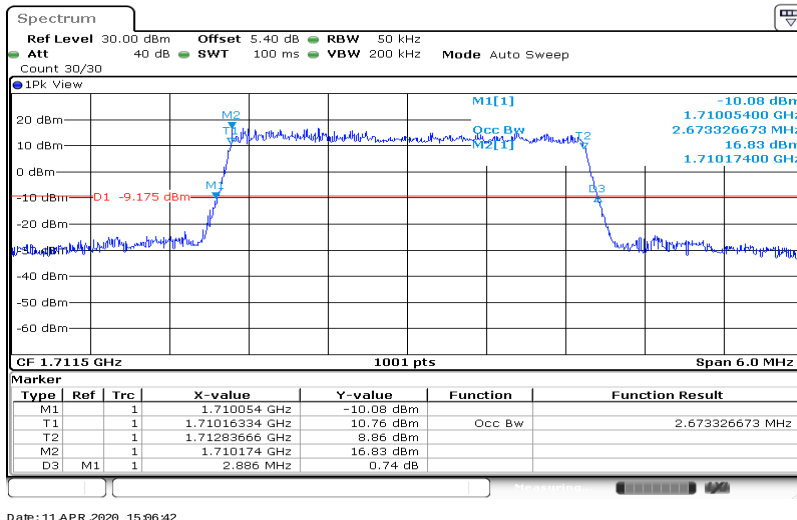


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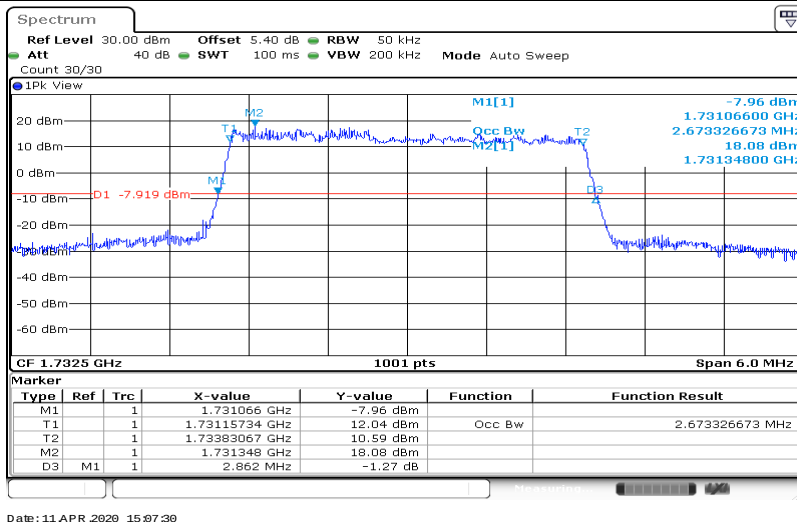


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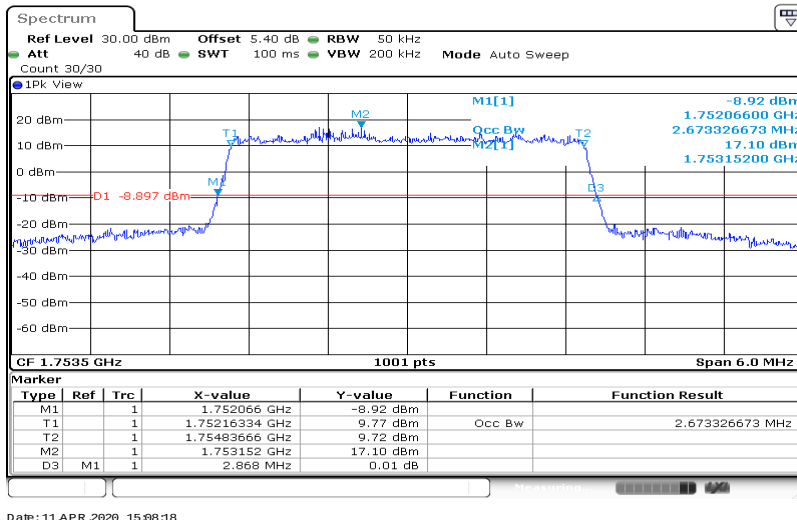


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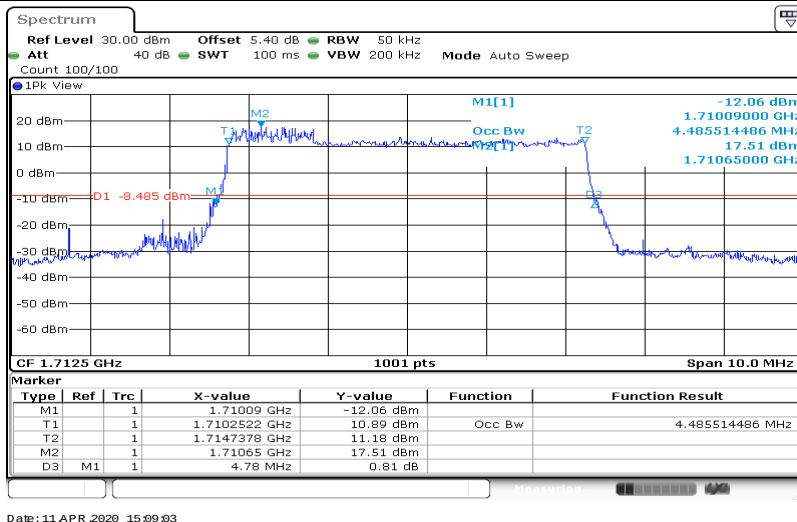


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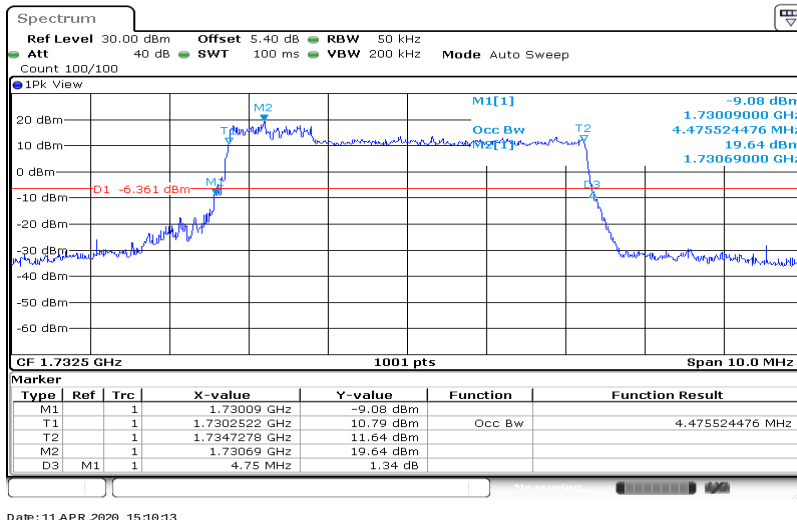


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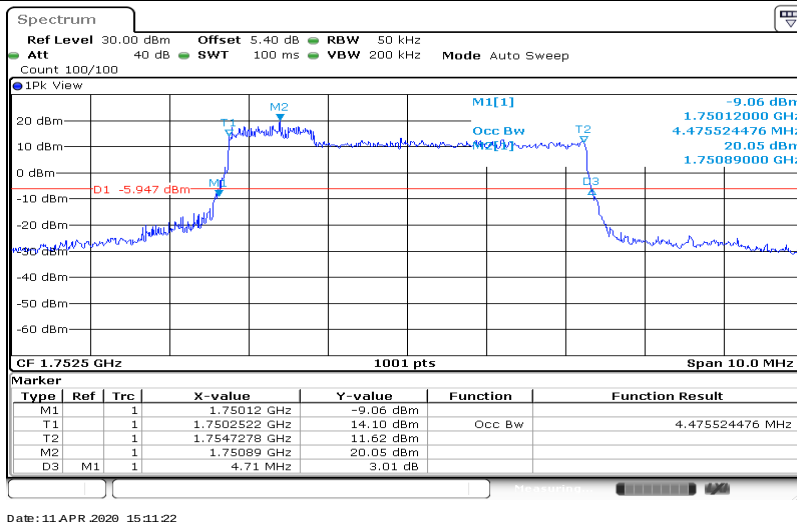


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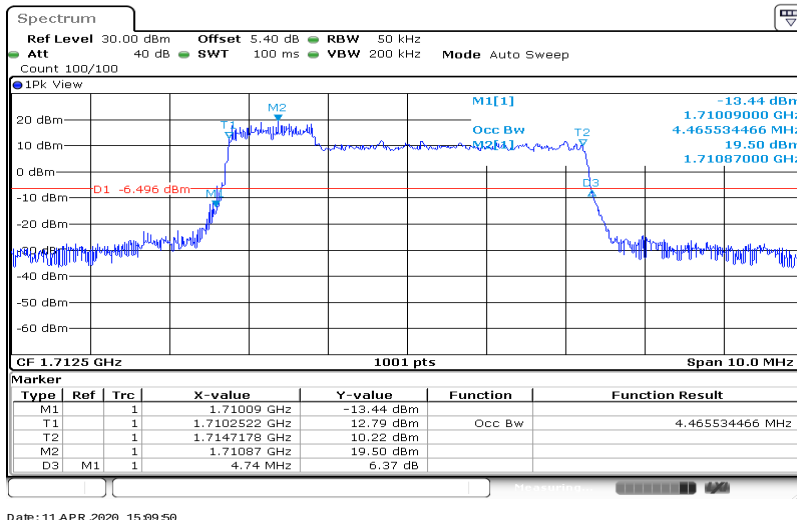


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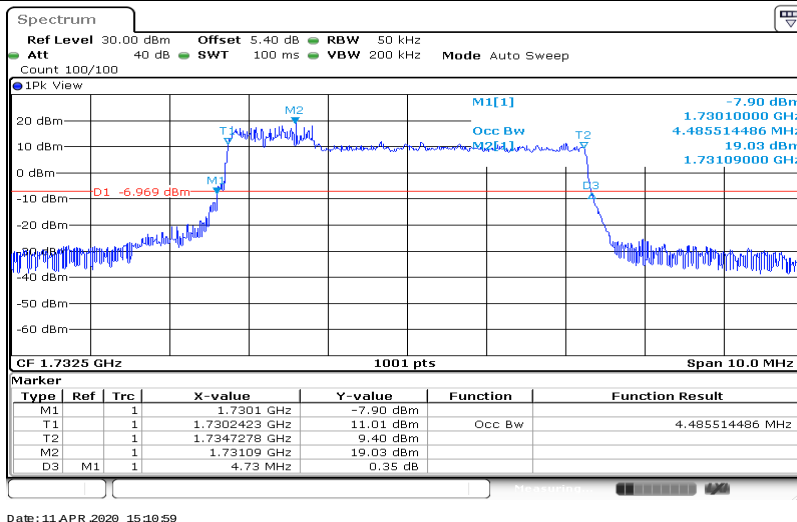


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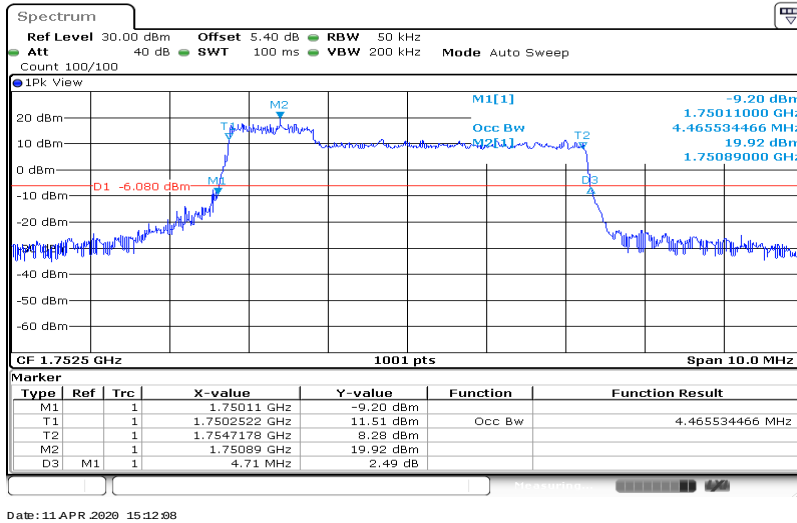


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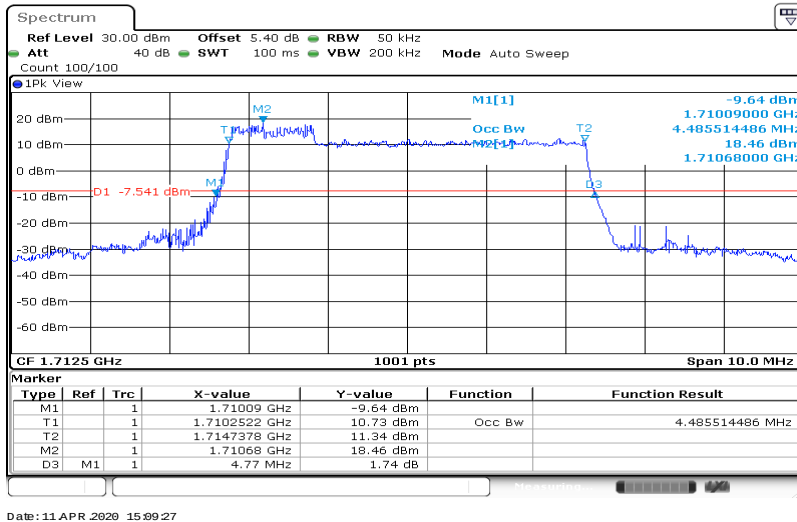


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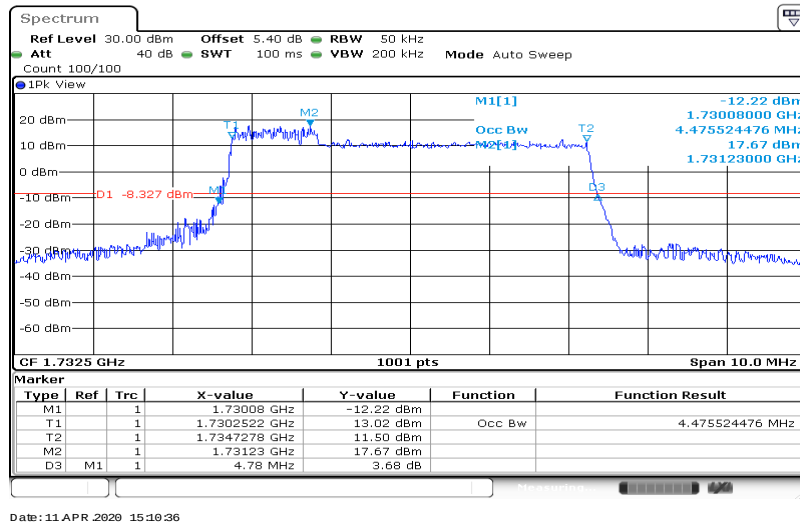


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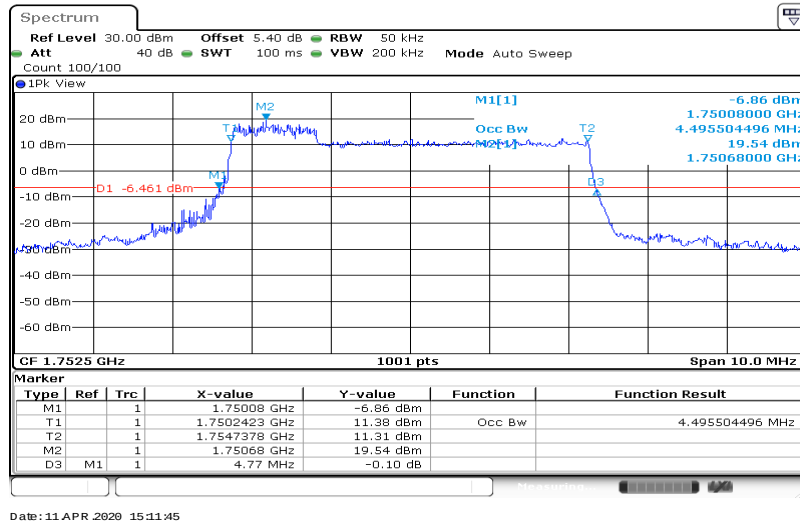


Band4-5MHz-16QAM-20175-25RB#0-4.476





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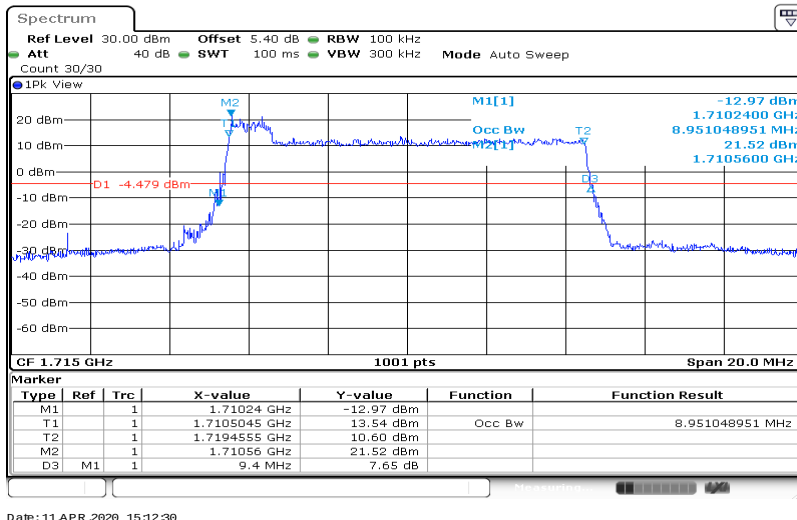


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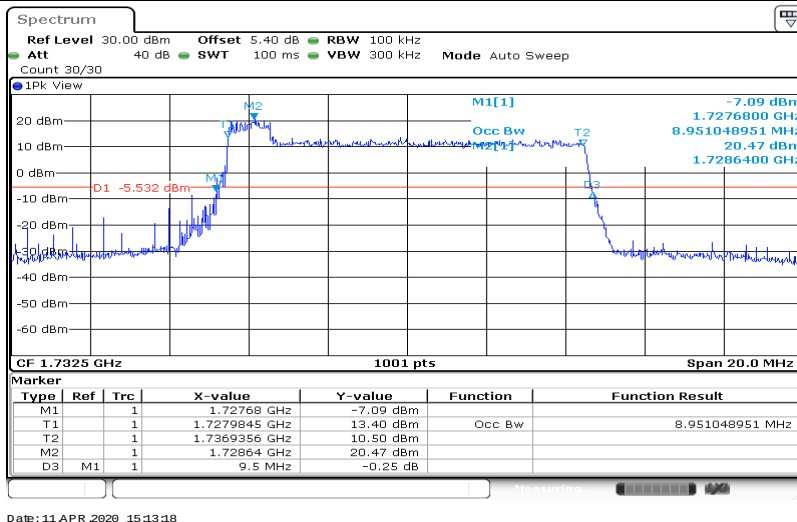


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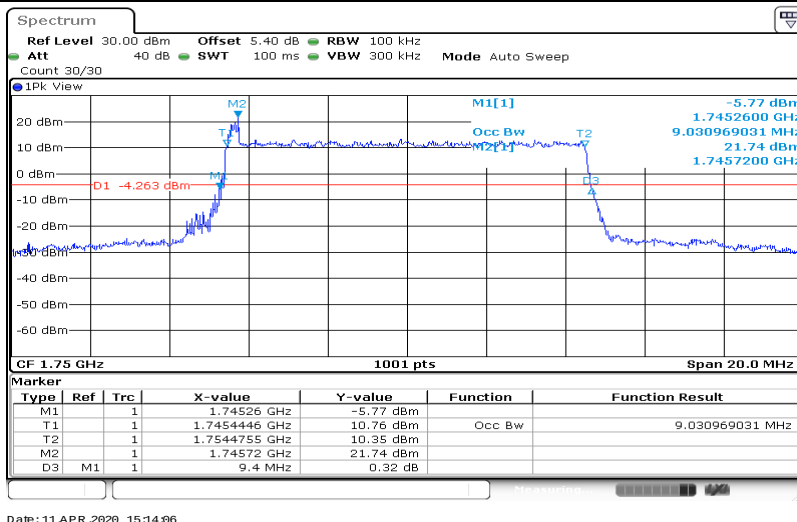


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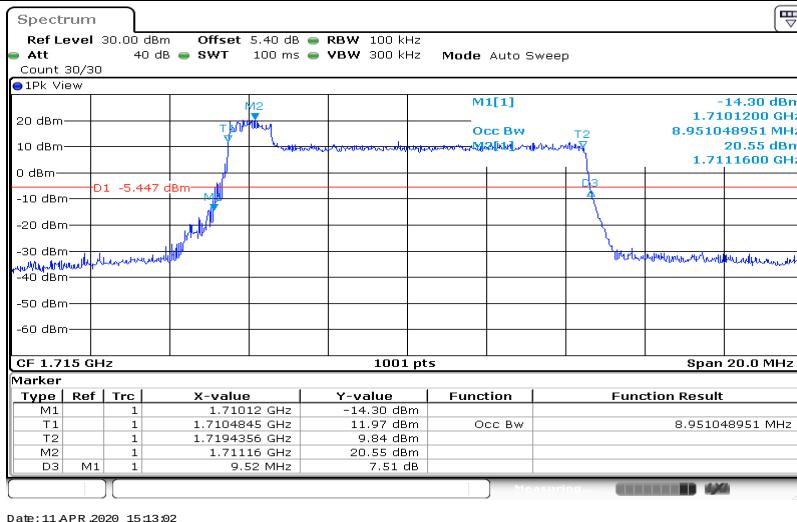


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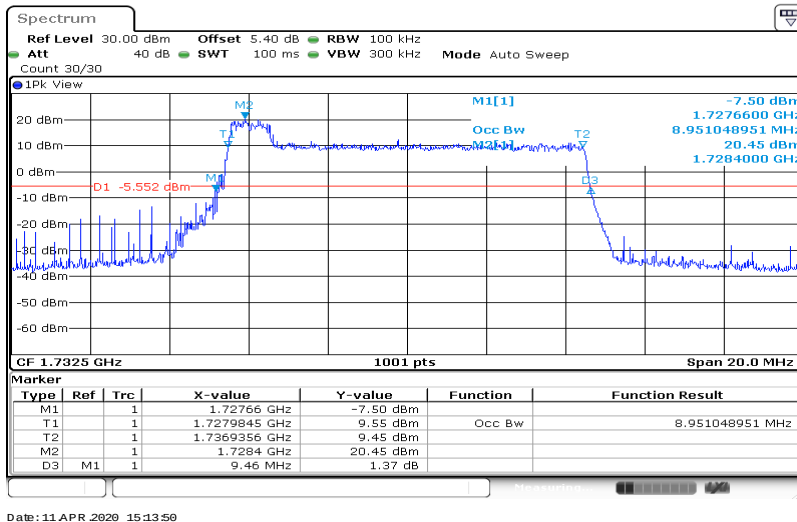


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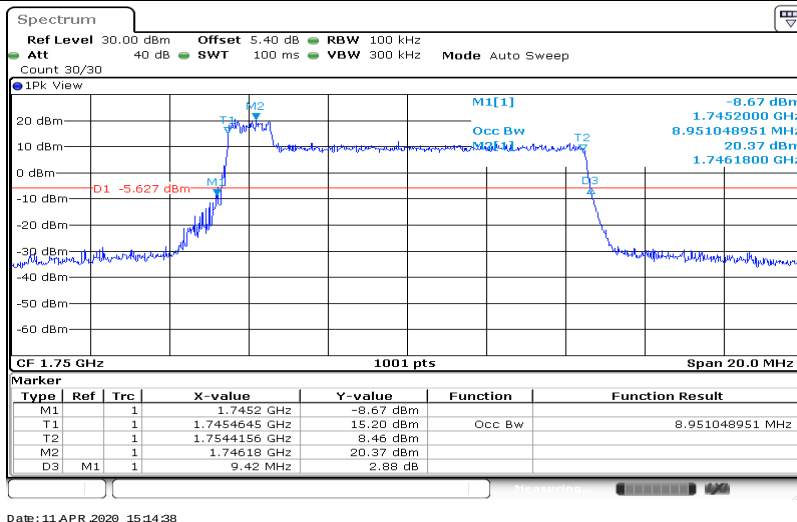


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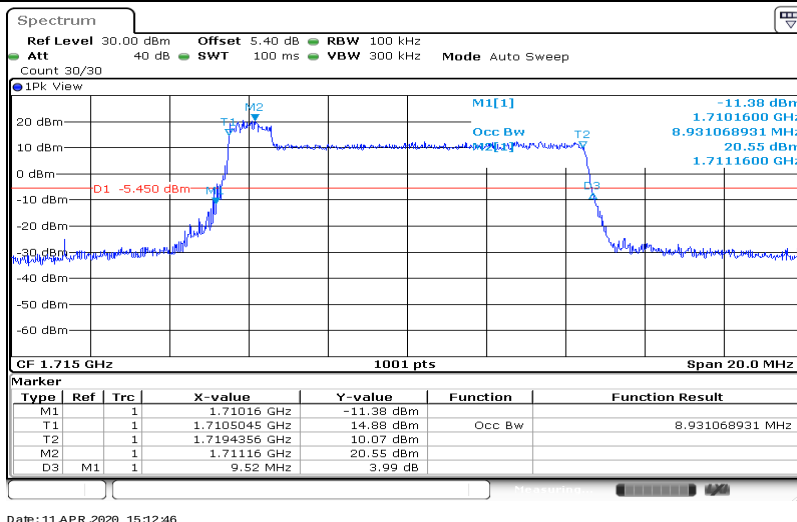


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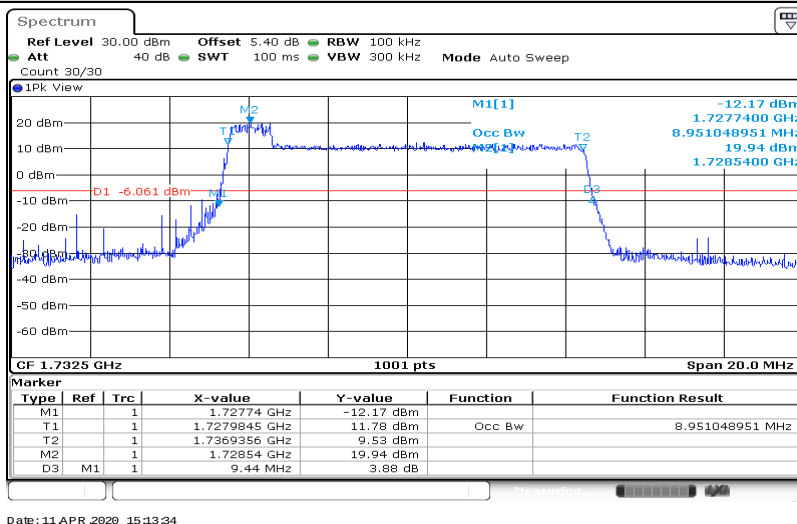


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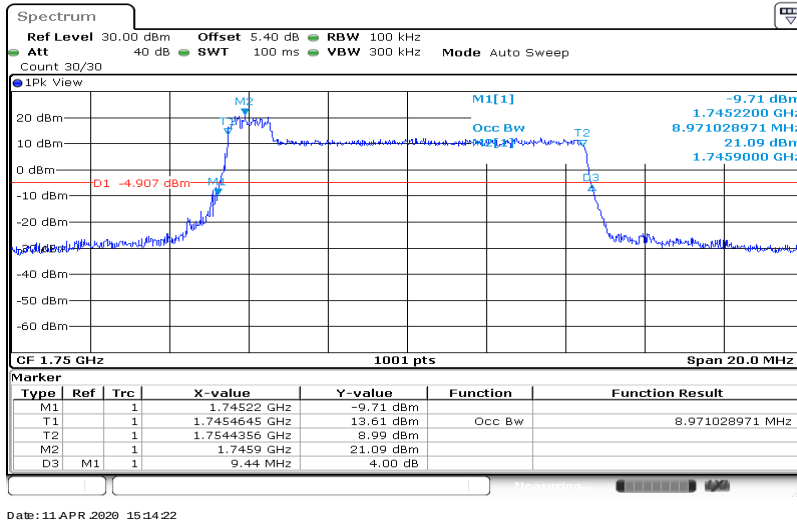


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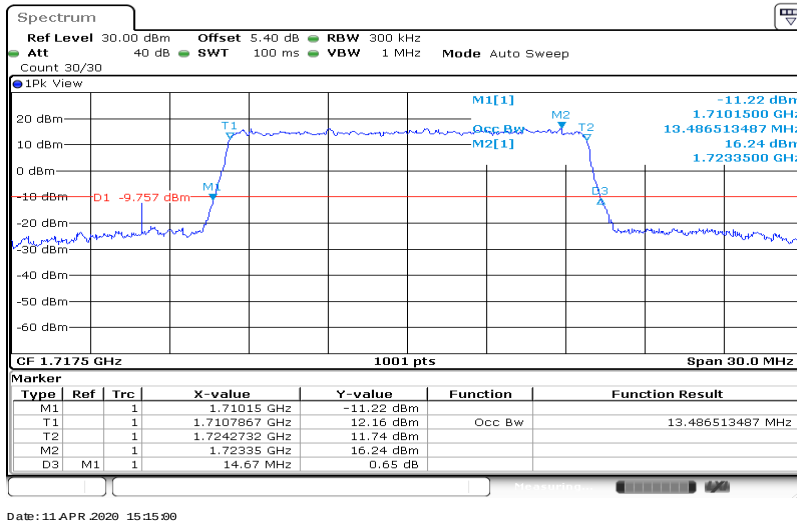


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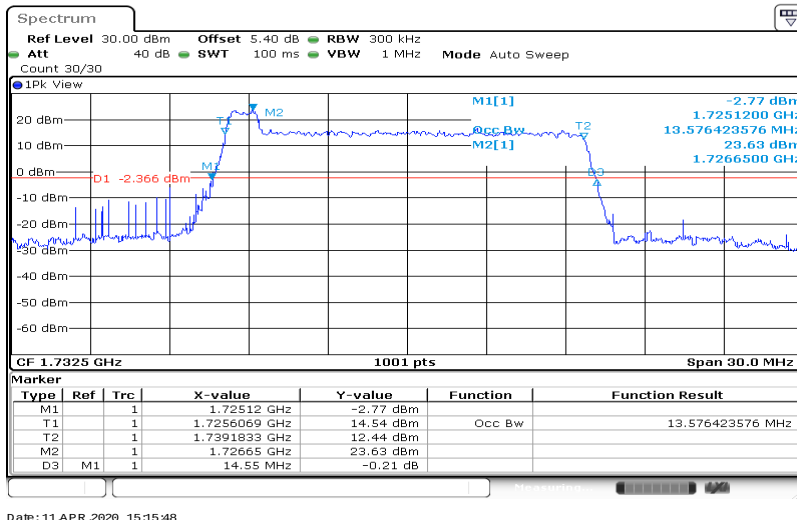


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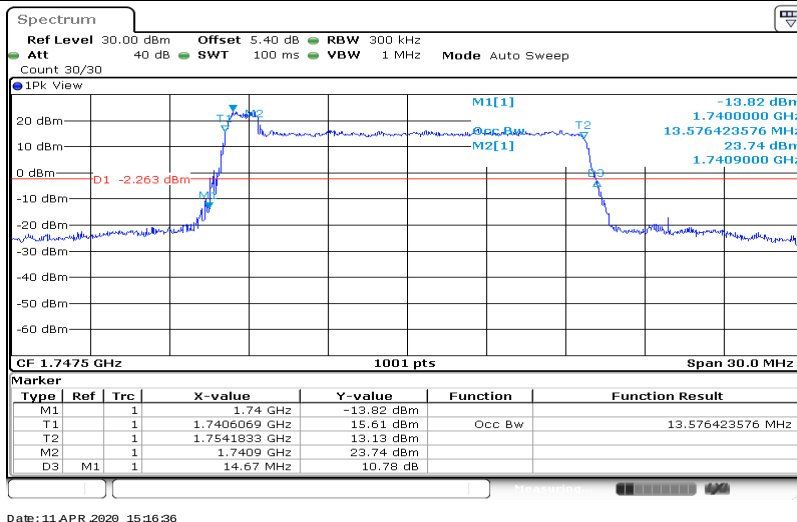


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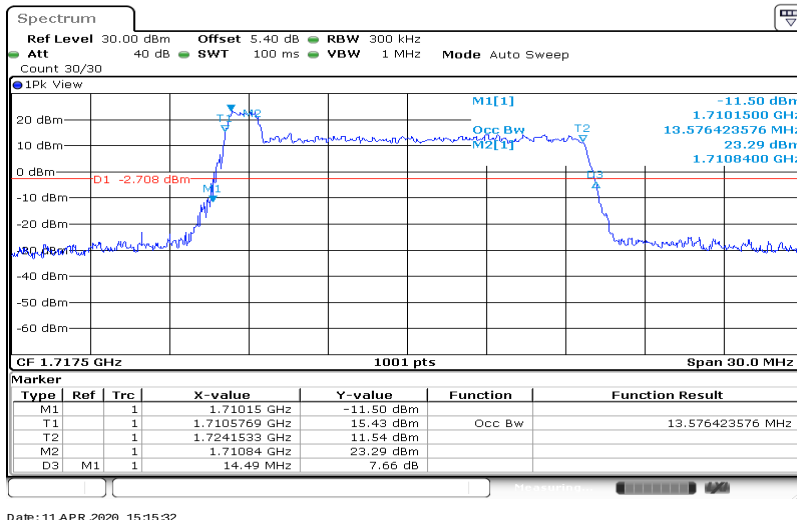


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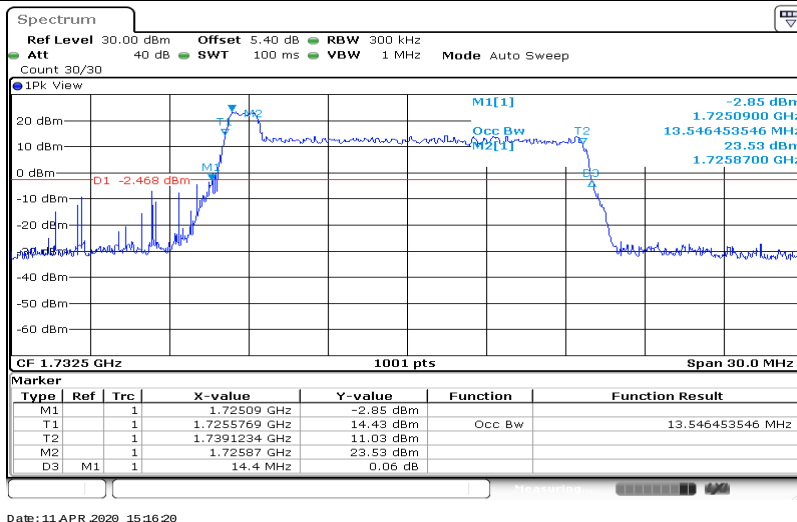


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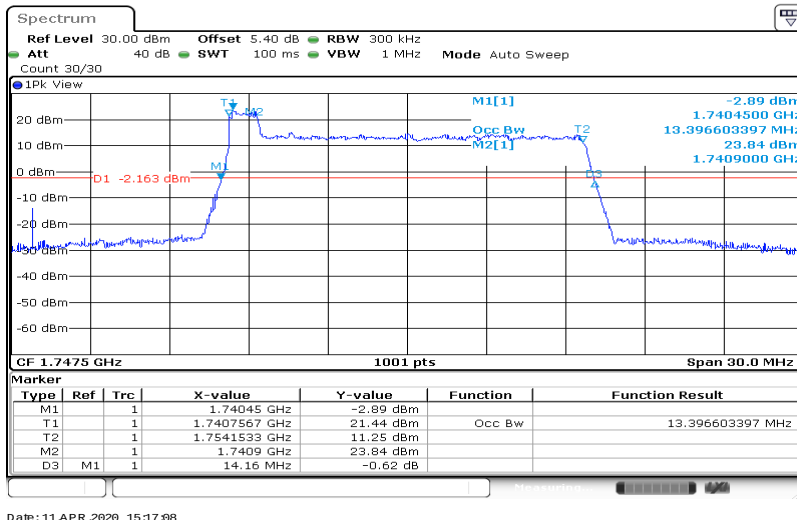


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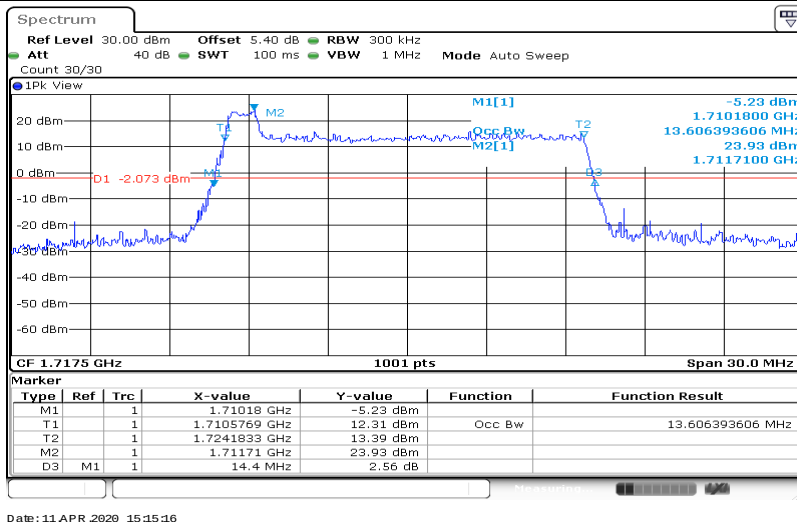


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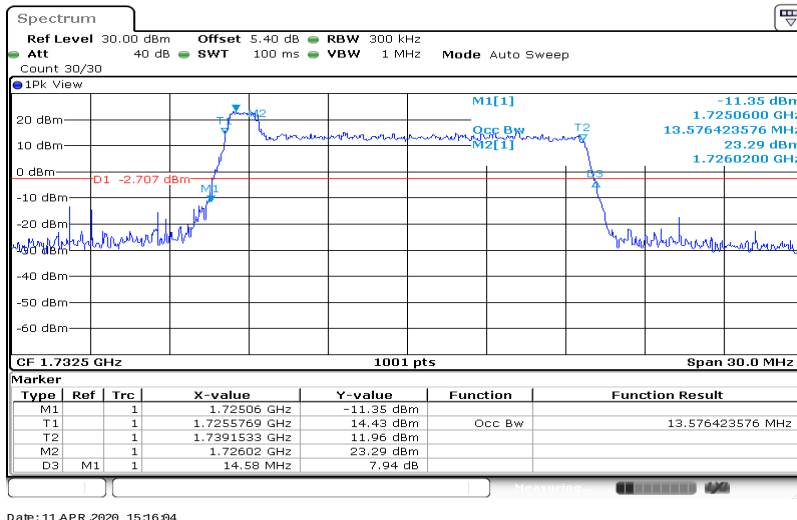


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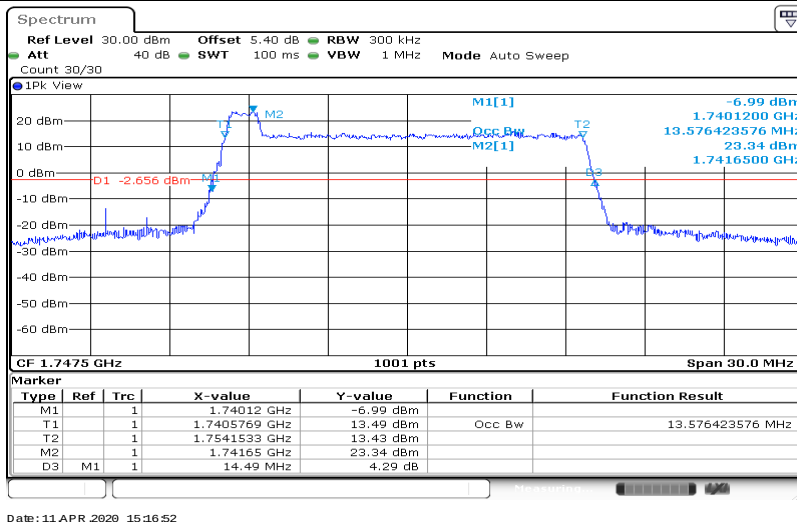


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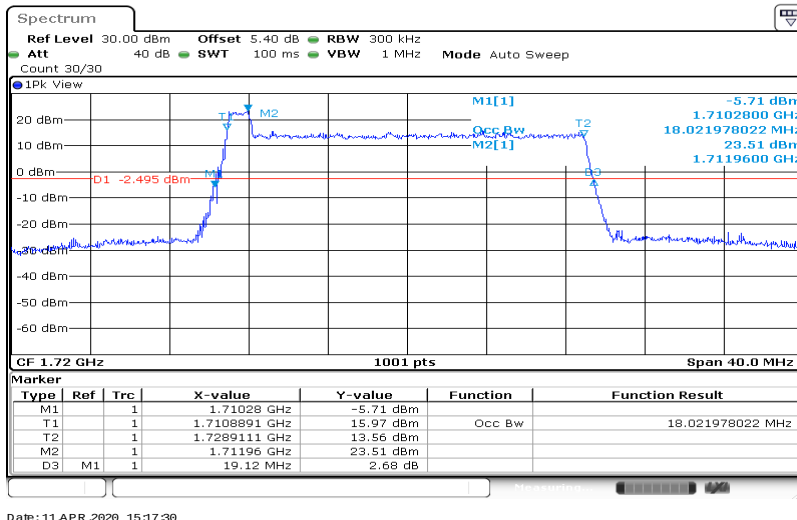


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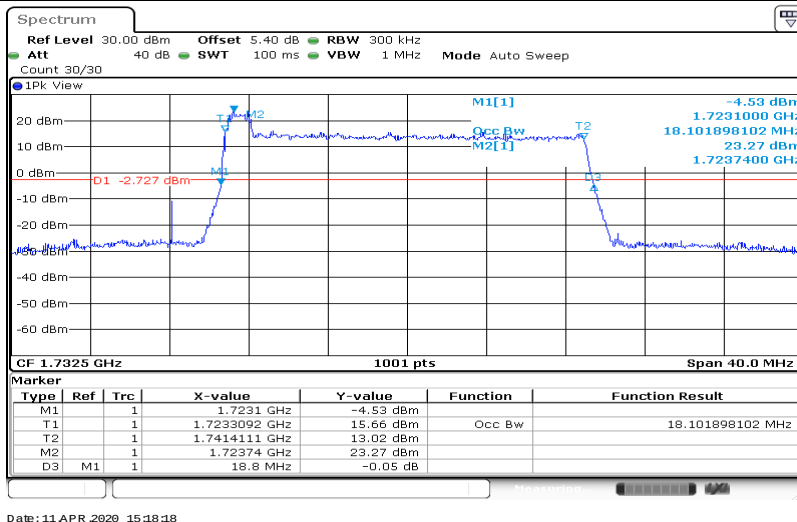


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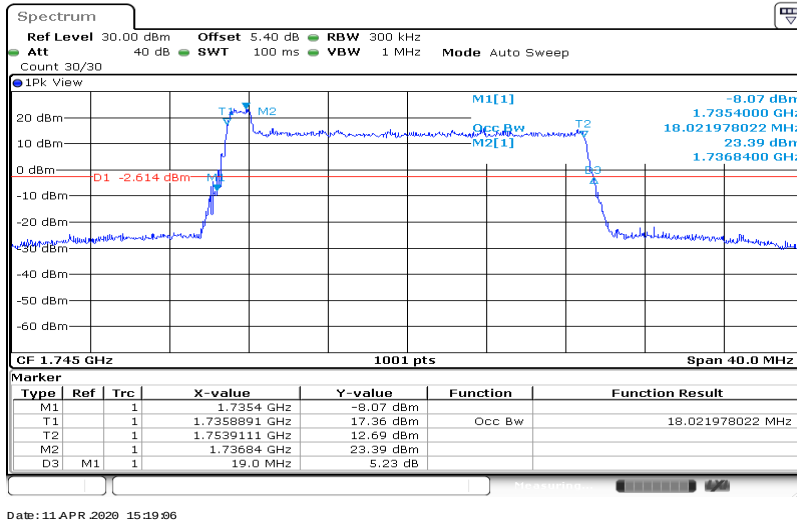


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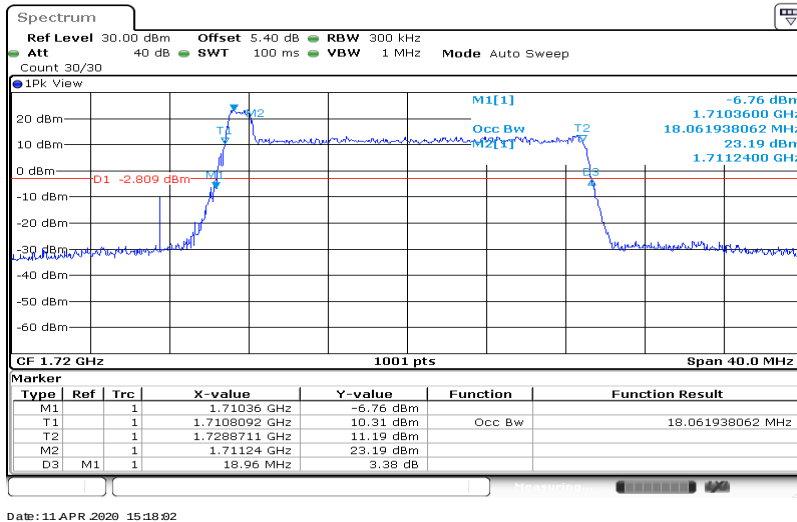


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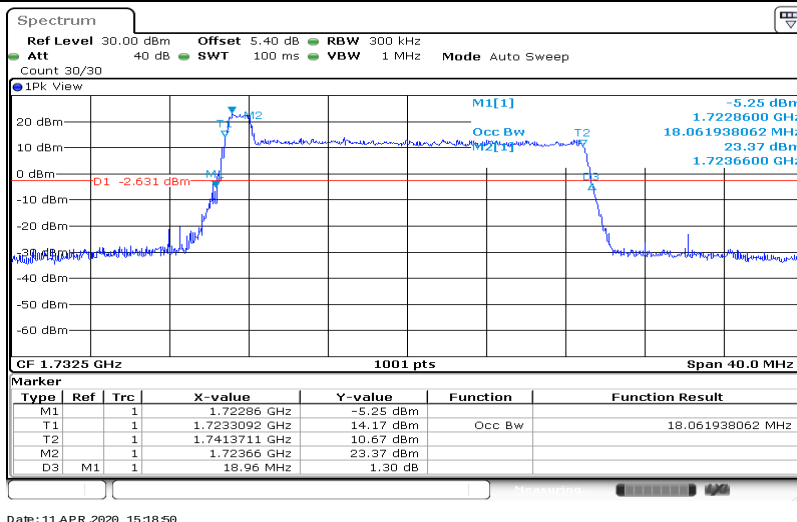


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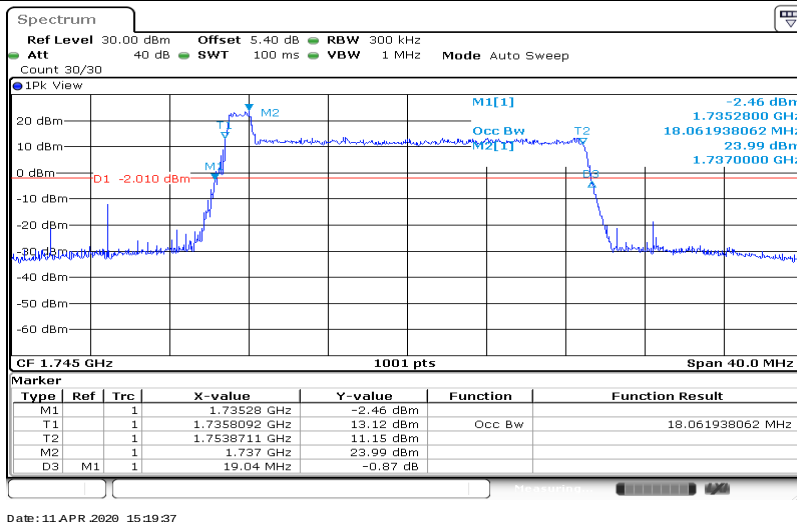


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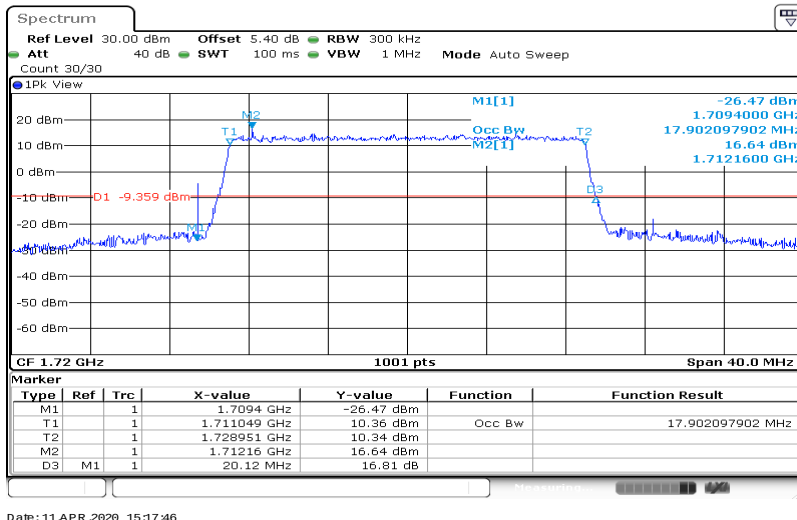


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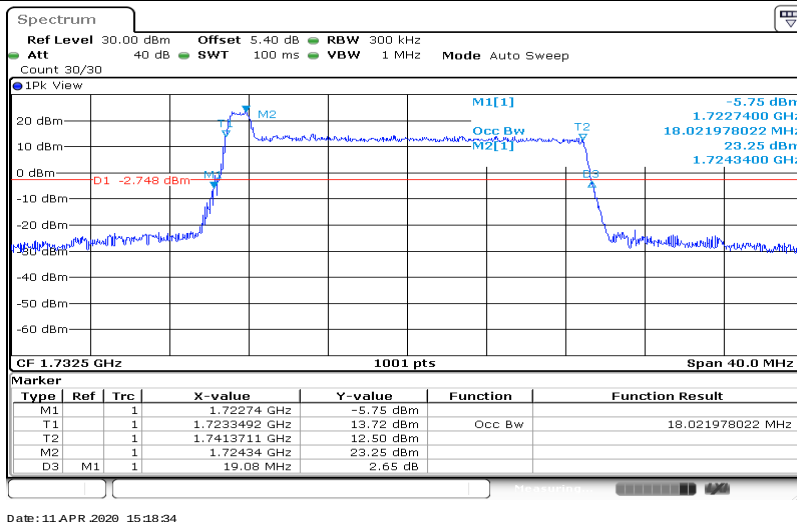


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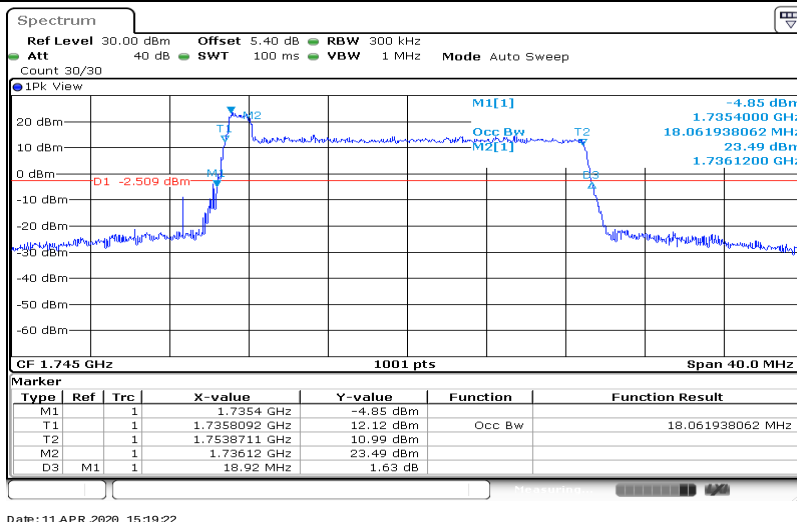


Band4-20MHz-16QAM-20175-100RB#0-18.022



Band4-20MHz-16QAM-20300-100RB#0-18.062







5. Band Edge Compliance

5.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band4	1.4MHz	QPSK	19957	1RB#0	-22.62	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	-30.50	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	-21.94	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	-27.71	PASS
Band4	1.4MHz	64QAM	19957	1RB#0	-24.54	PASS
Band4	1.4MHz	64QAM	19957	6RB#0	-32.05	PASS
Band4	1.4MHz	64QAM	20393	1RB#5	-36.72	PASS
Band4	1.4MHz	64QAM	20393	6RB#0	-32.05	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	-23.79	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	-30.38	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	-22.10	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	-29.79	PASS
Band4	3MHz	QPSK	19965	1RB#0	-23.55	PASS
Band4	3MHz	QPSK	19965	15RB#0	-35.01	PASS
Band4	3MHz	QPSK	20385	1RB#14	-24.26	PASS
Band4	3MHz	QPSK	20385	15RB#0	-32.65	PASS
Band4	3MHz	64QAM	19965	1RB#0	-25.98	PASS
Band4	3MHz	64QAM	19965	15RB#0	-36.36	PASS
Band4	3MHz	64QAM	20385	1RB#14	-24.82	PASS
Band4	3MHz	64QAM	20385	15RB#0	-37.26	PASS
Band4	3MHz	16QAM	19965	1RB#0	-23.52	PASS
Band4	3MHz	16QAM	19965	15RB#0	-36.08	PASS
Band4	3MHz	16QAM	20385	1RB#14	-24.29	PASS
Band4	3MHz	16QAM	20385	15RB#0	-34.54	PASS
Band4	5MHz	QPSK	19975	1RB#0	-21.57	PASS
Band4	5MHz	QPSK	19975	25RB#0	-34.43	PASS
Band4	5MHz	QPSK	20375	1RB#24	-20.43	PASS
Band4	5MHz	QPSK	20375	25RB#0	-33.28	PASS
Band4	5MHz	64QAM	19975	1RB#0	-22.80	PASS
Band4	5MHz	64QAM	19975	25RB#0	-35.46	PASS
Band4	5MHz	64QAM	20375	1RB#24	-24.30	PASS
Band4	5MHz	64QAM	20375	25RB#0	-34.73	PASS
Band4	5MHz	16QAM	19975	1RB#0	-22.07	PASS



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Band4	5MHz	16QAM	19975	25RB#0	-34.58	PASS
Band4	5MHz	16QAM	20375	1RB#24	-21.52	PASS
Band4	5MHz	16QAM	20375	25RB#0	-35.42	PASS
Band4	10MHz	QPSK	20000	1RB#0	-23.36	PASS
Band4	10MHz	QPSK	20000	50RB#0	-36.62	PASS
Band4	10MHz	QPSK	20350	1RB#49	-23.12	PASS
Band4	10MHz	QPSK	20350	50RB#0	-33.35	PASS
Band4	10MHz	64QAM	20000	1RB#0	-24.85	PASS
Band4	10MHz	64QAM	20000	50RB#0	-38.86	PASS
Band4	10MHz	64QAM	20350	1RB#49	-26.87	PASS
Band4	10MHz	64QAM	20350	50RB#0	-37.77	PASS
Band4	10MHz	16QAM	20000	1RB#0	-23.01	PASS
Band4	10MHz	16QAM	20000	50RB#0	-37.67	PASS
Band4	10MHz	16QAM	20350	1RB#49	-23.31	PASS
Band4	10MHz	16QAM	20350	50RB#0	-35.93	PASS
Band4	15MHz	QPSK	20025	1RB#0	-23.34	PASS
Band4	15MHz	QPSK	20025	75RB#0	-33.88	PASS
Band4	15MHz	QPSK	20325	1RB#74	-22.93	PASS
Band4	15MHz	QPSK	20325	75RB#0	-34.86	PASS
Band4	15MHz	64QAM	20025	1RB#0	-24.39	PASS
Band4	15MHz	64QAM	20025	75RB#0	-38.91	PASS
Band4	15MHz	64QAM	20325	1RB#74	-31.43	PASS
Band4	15MHz	64QAM	20325	75RB#0	-37.90	PASS
Band4	15MHz	16QAM	20025	1RB#0	-24.47	PASS
Band4	15MHz	16QAM	20025	75RB#0	-35.47	PASS
Band4	15MHz	16QAM	20325	1RB#74	-22.08	PASS
Band4	15MHz	16QAM	20325	75RB#0	-36.03	PASS
Band4	20MHz	QPSK	20050	1RB#0	-24.55	PASS
Band4	20MHz	QPSK	20050	100RB#0	-35.18	PASS
Band4	20MHz	QPSK	20300	1RB#99	-22.93	PASS
Band4	20MHz	QPSK	20300	100RB#0	-33.59	PASS
Band4	20MHz	64QAM	20050	1RB#0	-25.66	PASS
Band4	20MHz	64QAM	20050	100RB#0	-39.87	PASS
Band4	20MHz	64QAM	20300	1RB#99	-23.74	PASS
Band4	20MHz	64QAM	20300	100RB#0	-37.29	PASS
Band4	20MHz	16QAM	20050	1RB#0	-24.63	PASS
Band4	20MHz	16QAM	20050	100RB#0	-37.50	PASS
Band4	20MHz	16QAM	20300	1RB#99	-26.34	PASS



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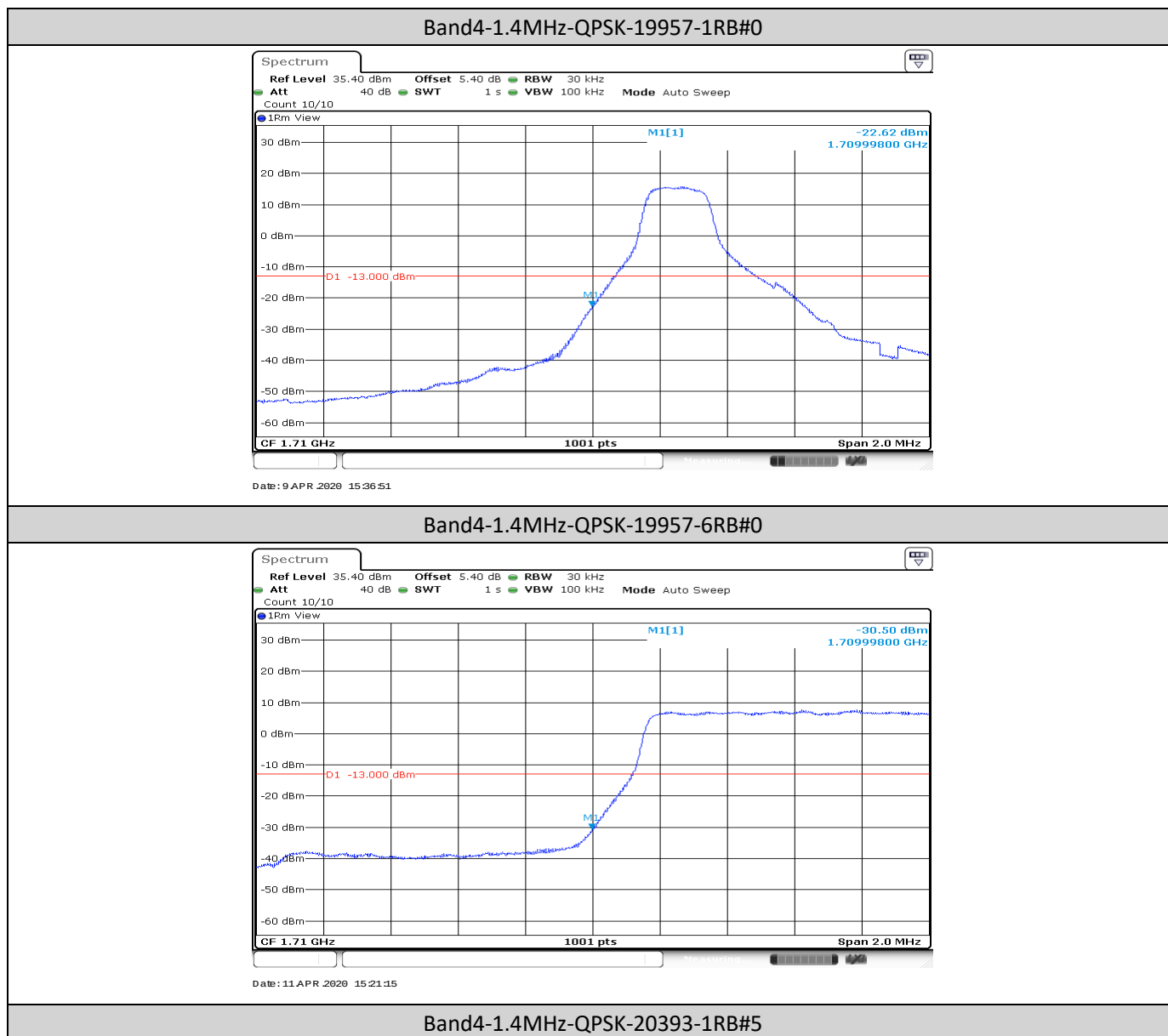
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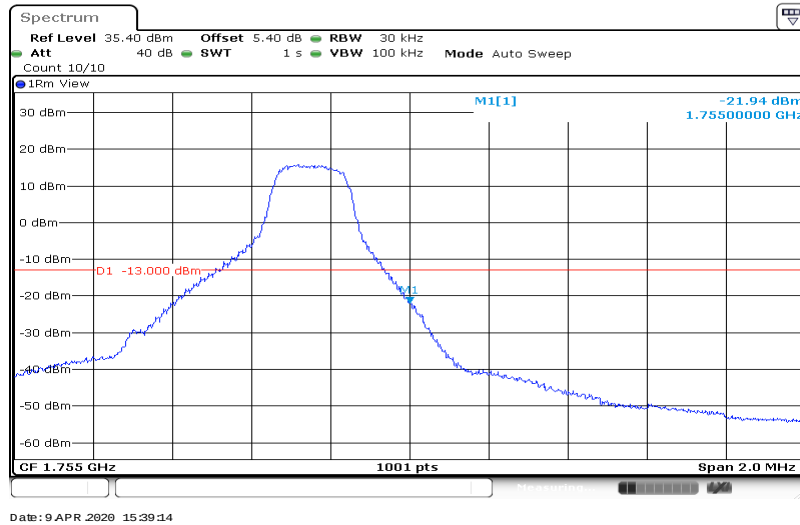
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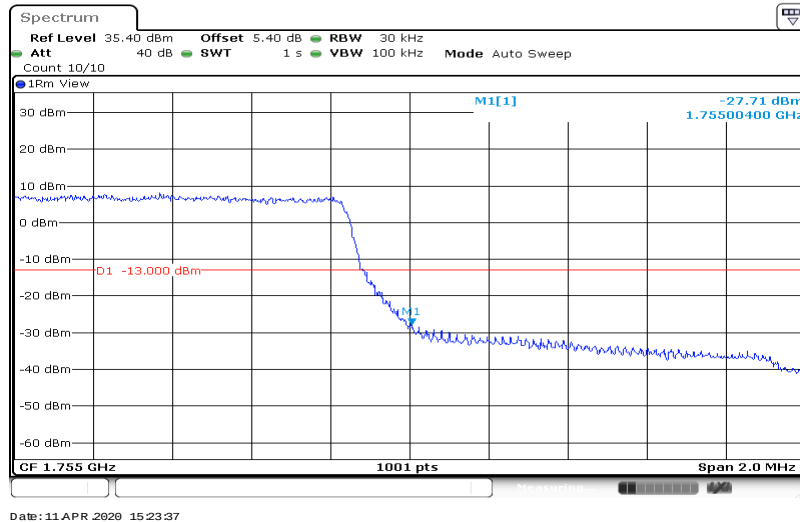
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5.2. Test Plots



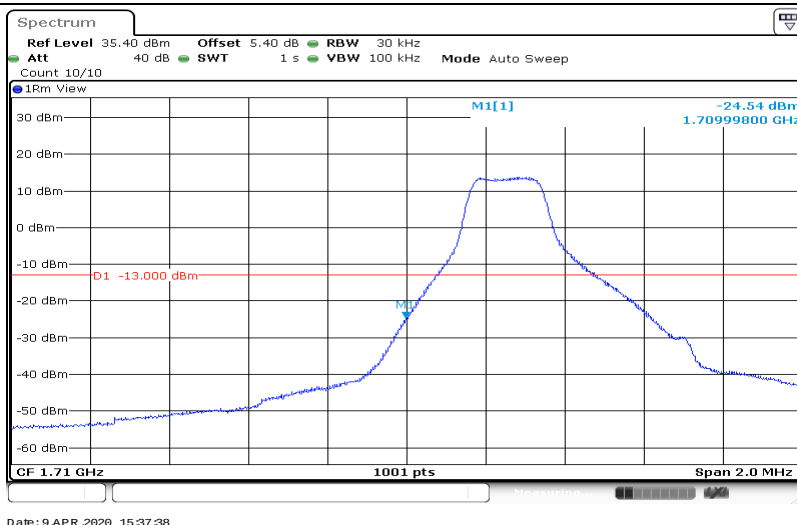


Band4-1.4MHz-QPSK-20393-6RB#0

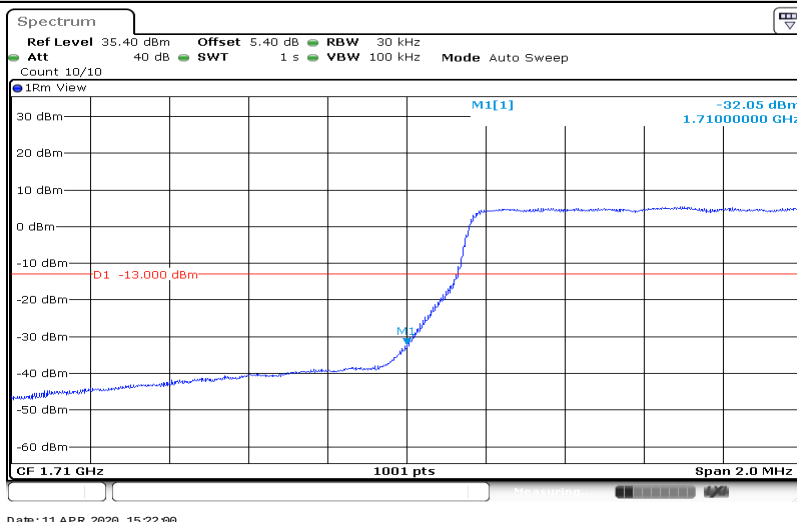


Band4-1.4MHz-64QAM-19957-1RB#0



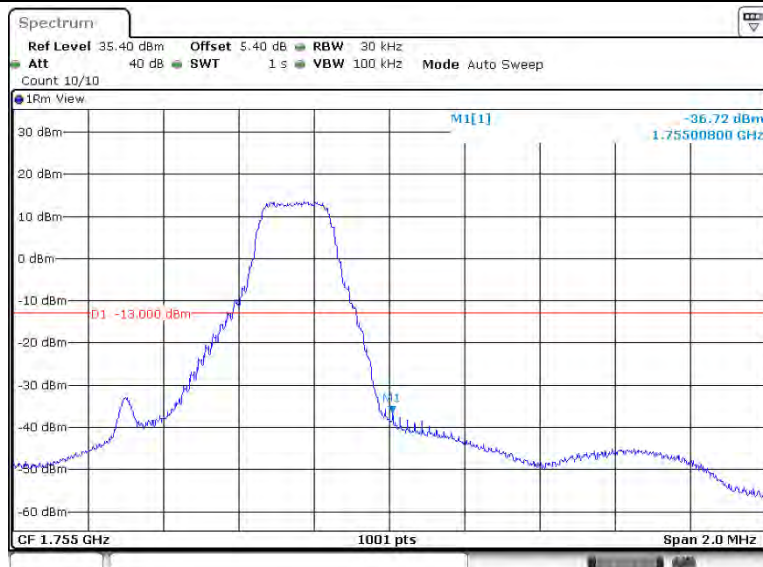


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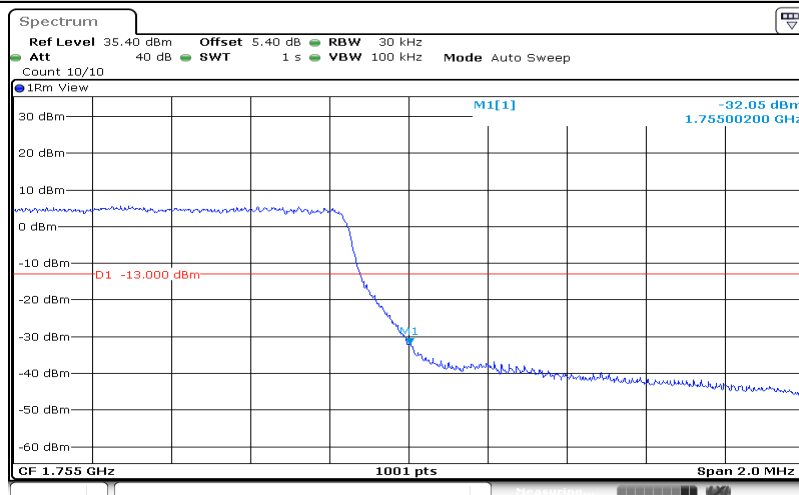
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Date: 28, MAR 2020 04:48:24

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



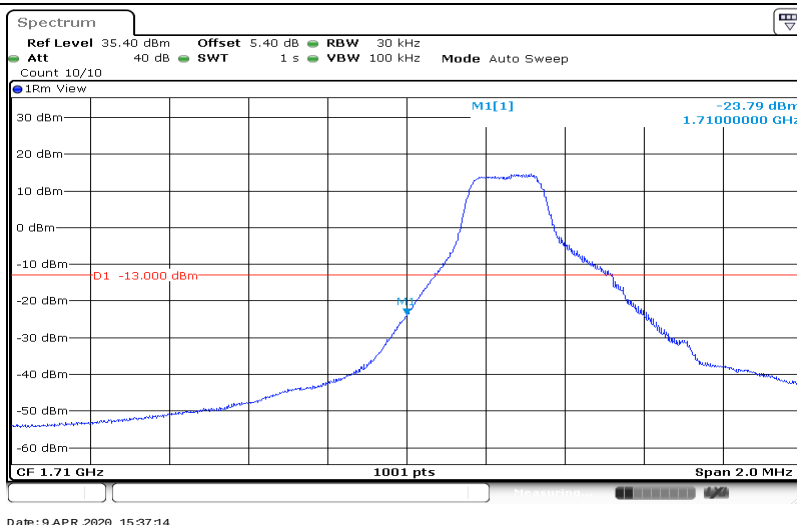
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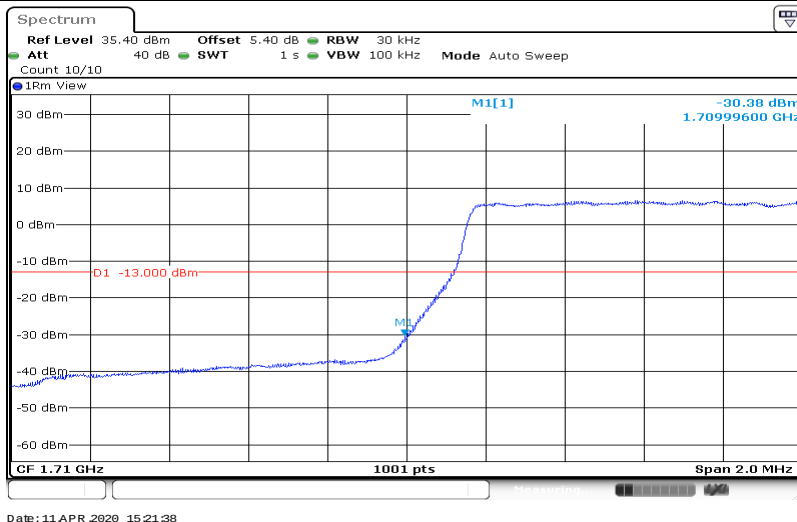


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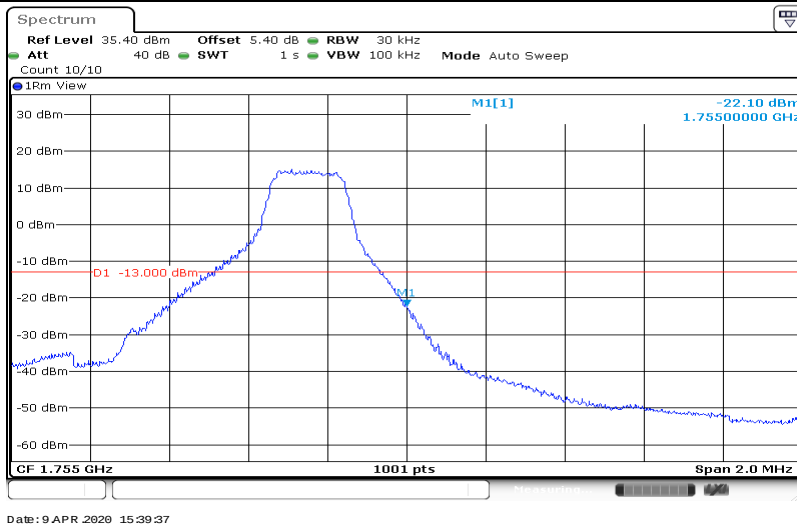


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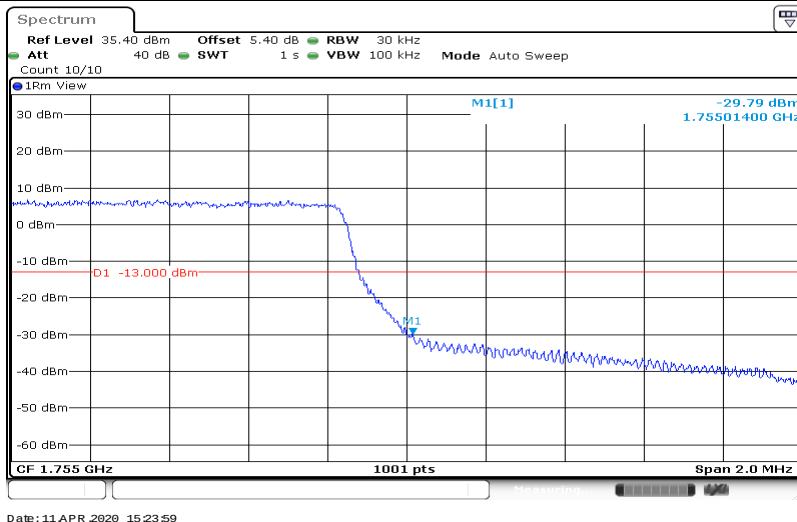


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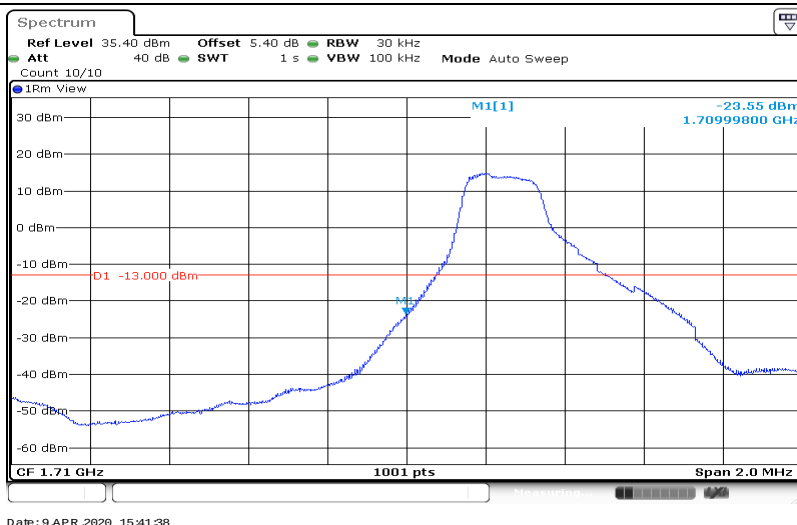


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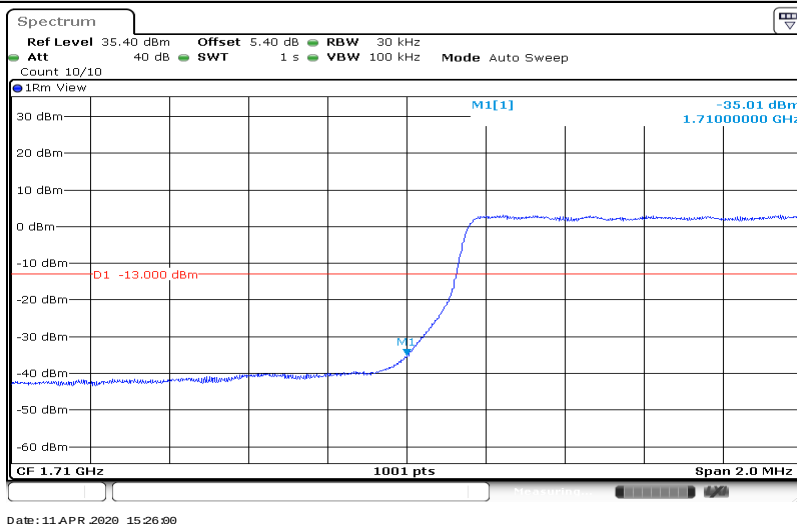


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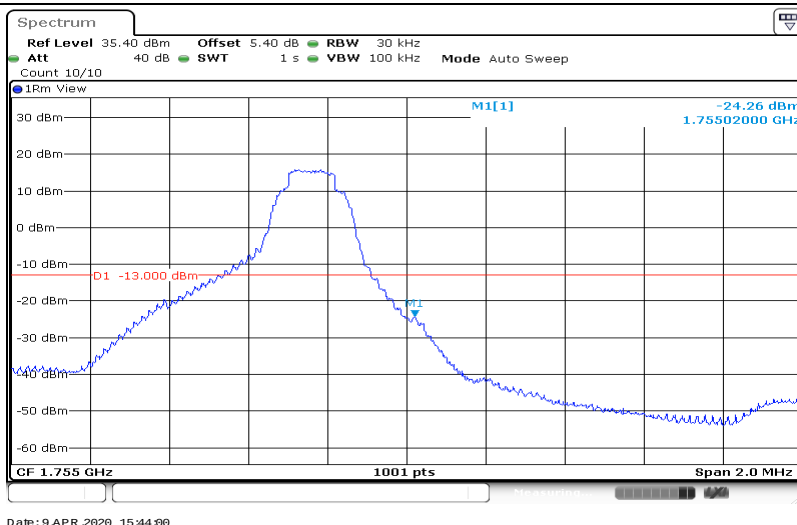


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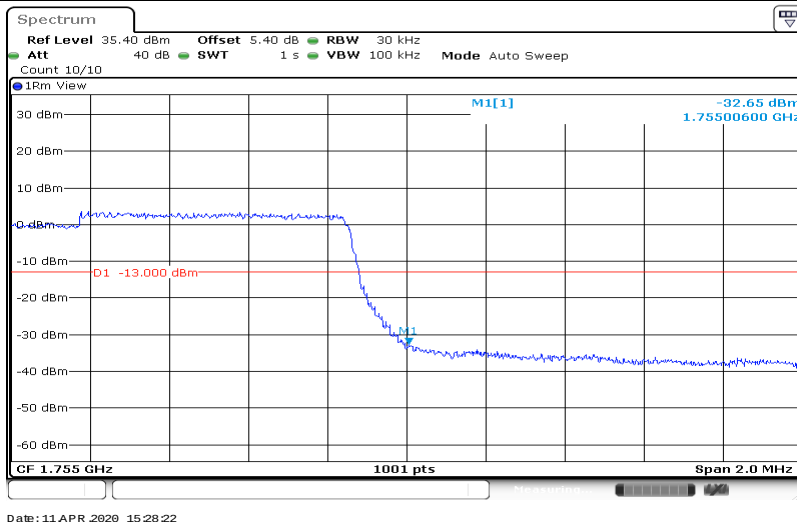


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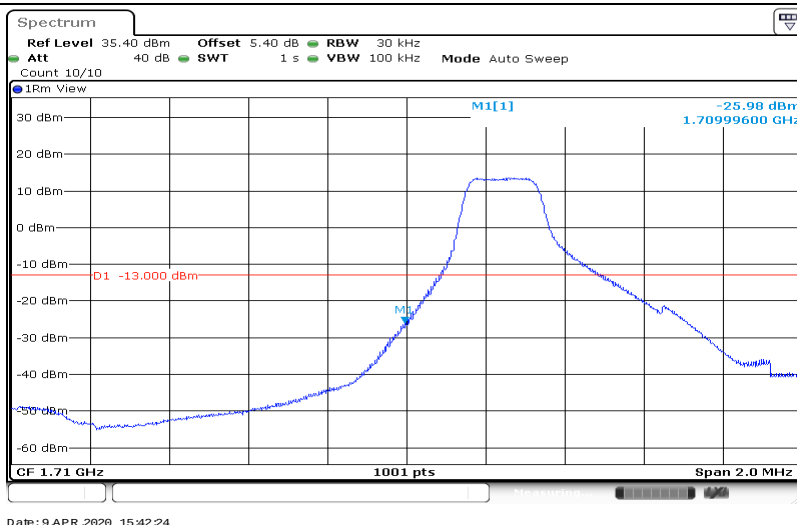


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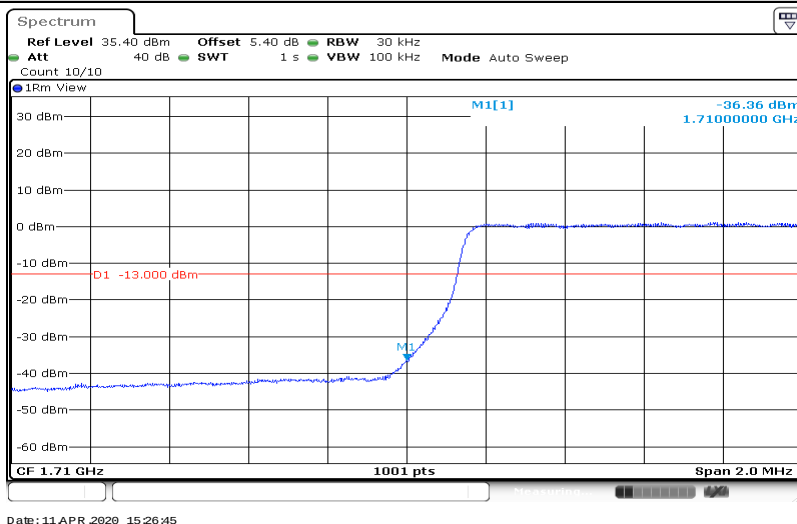


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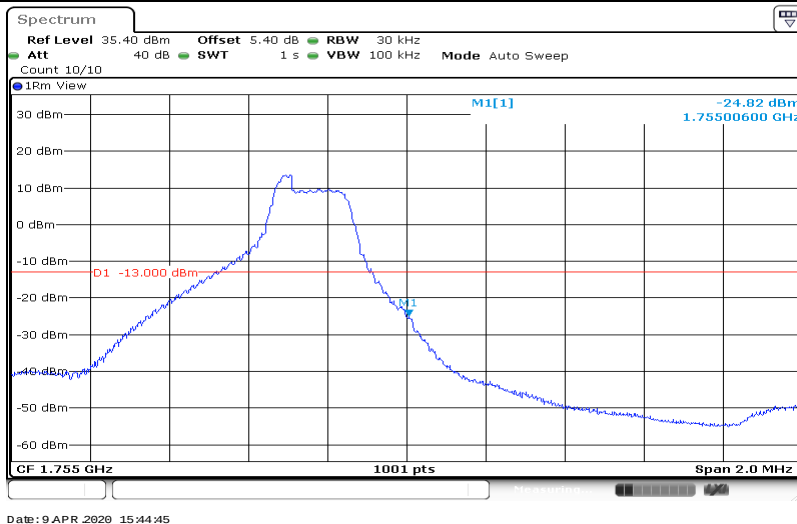


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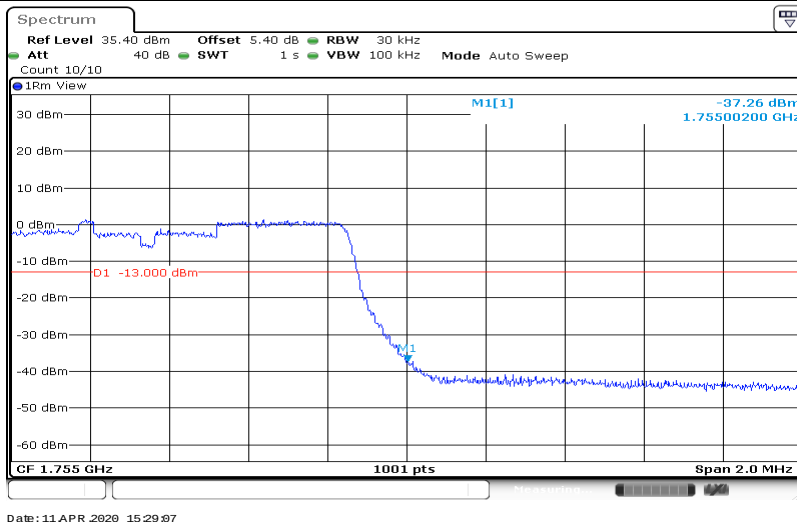


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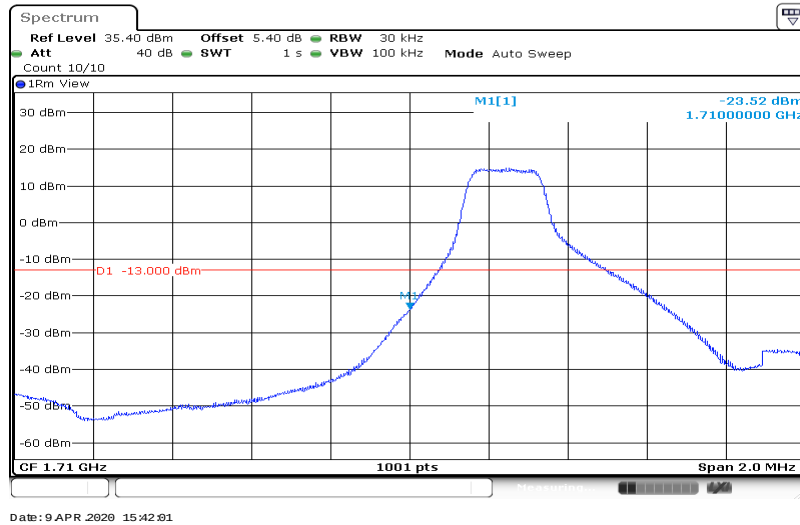


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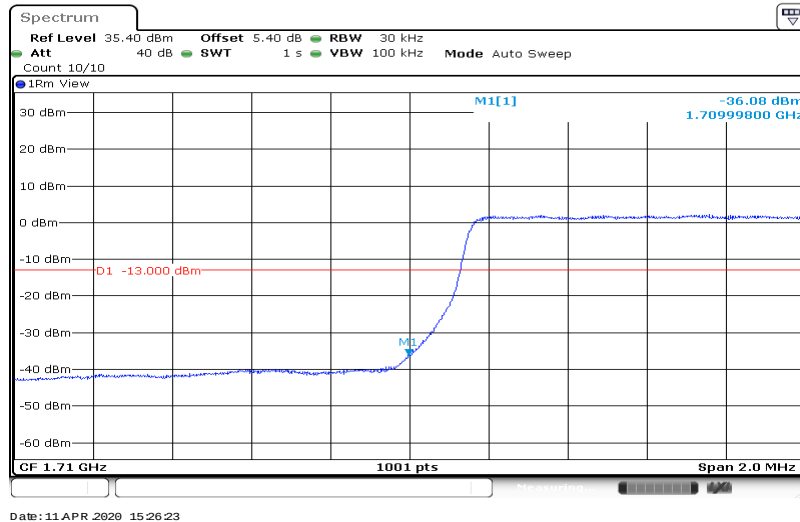


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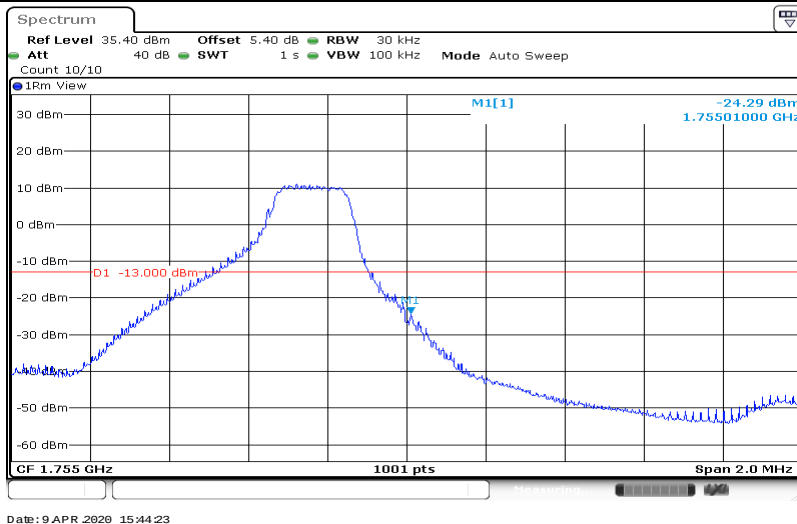


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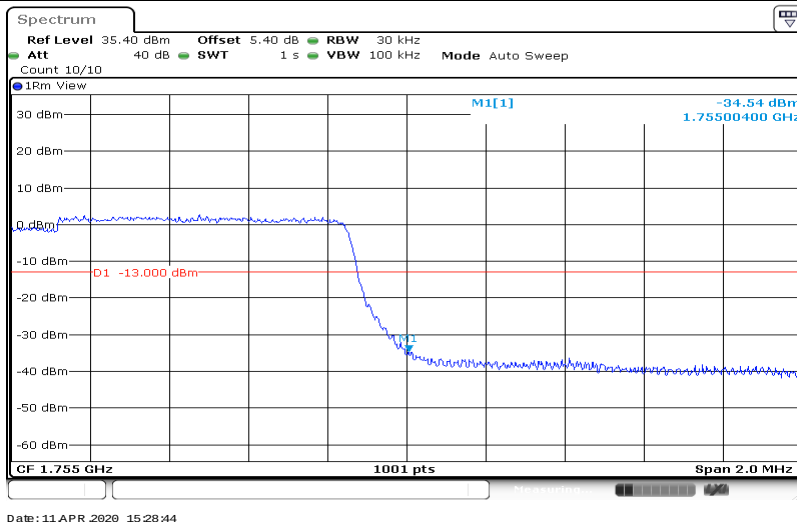


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Band4-3MHz-16QAM-20385-15RB#0



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

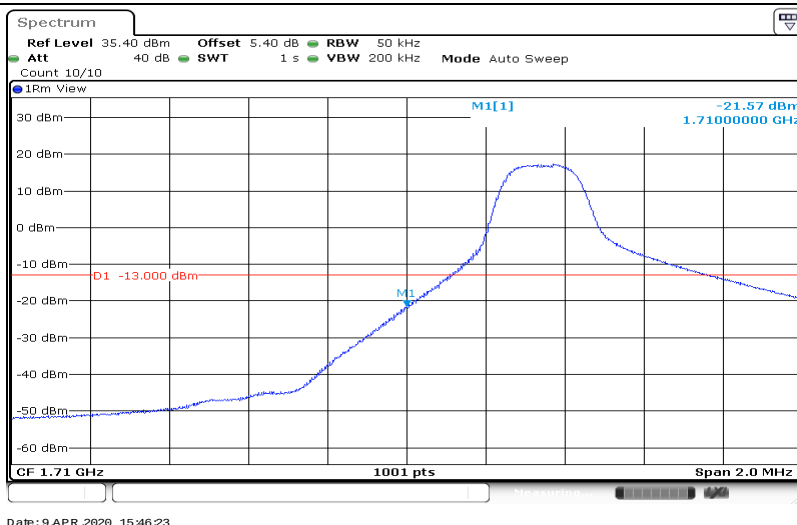


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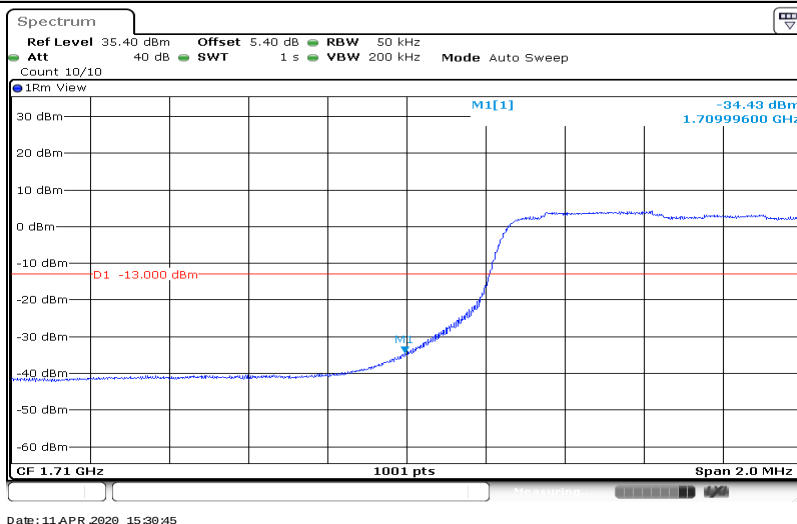
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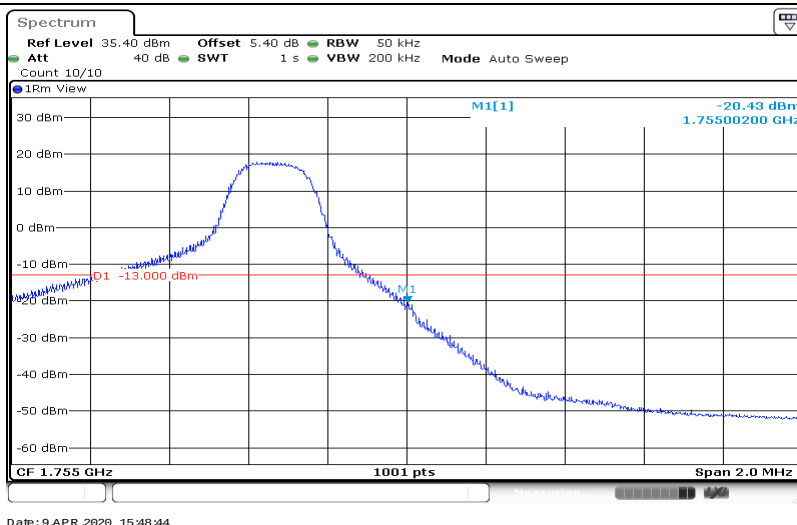


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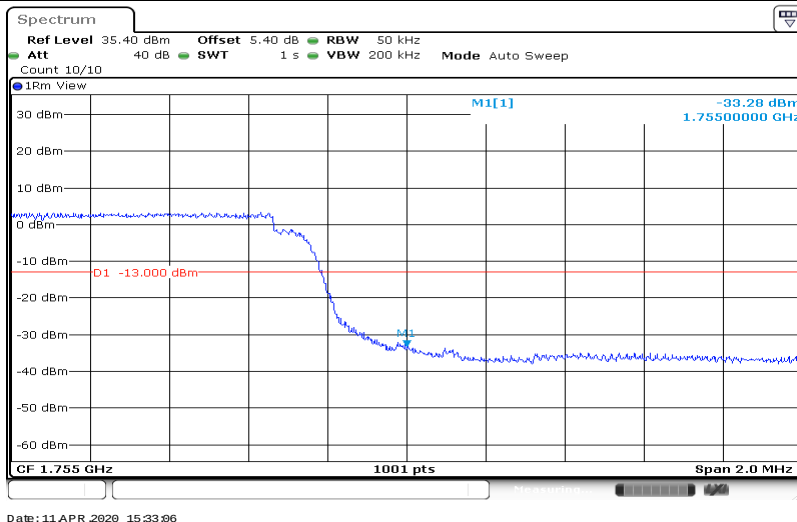


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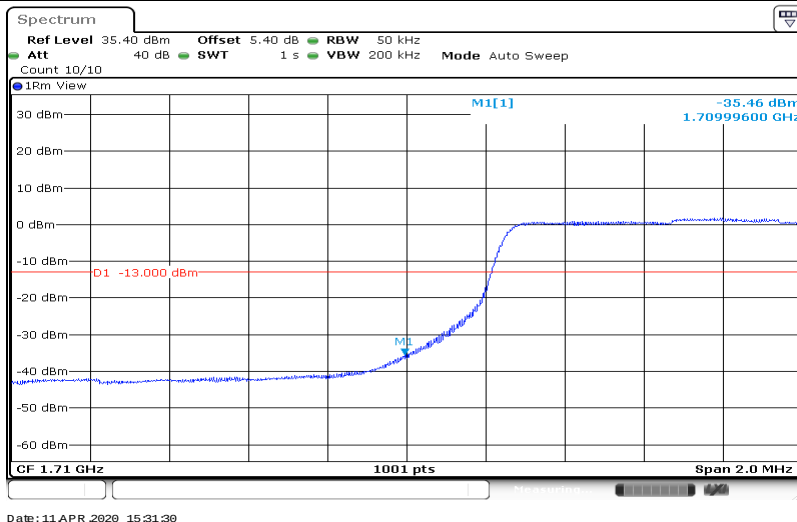


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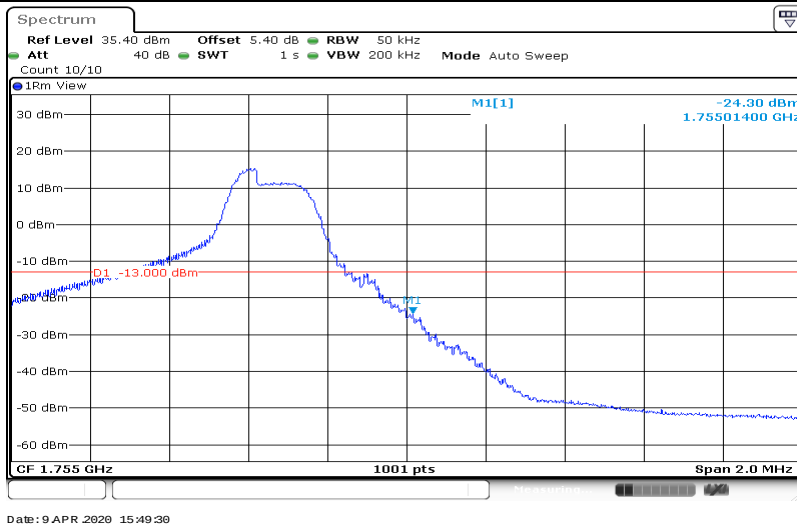


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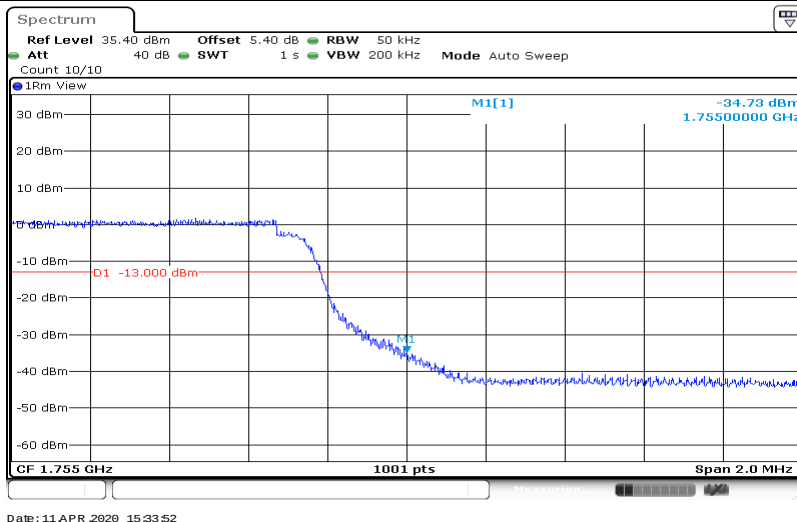


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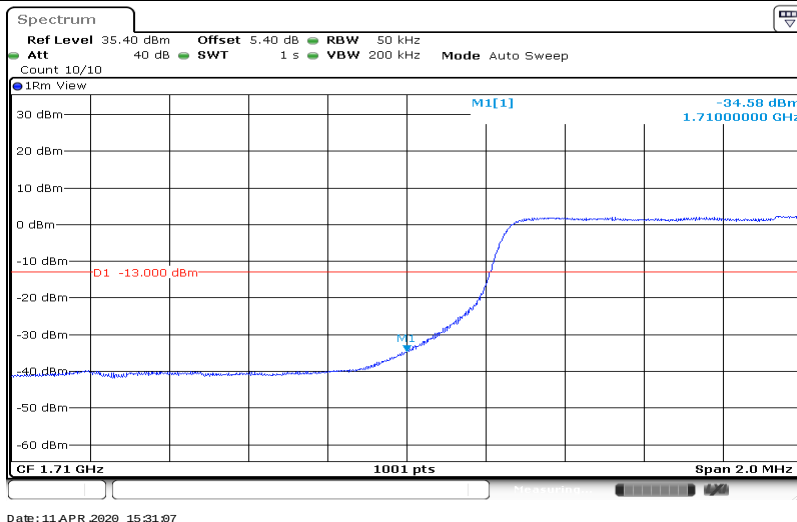


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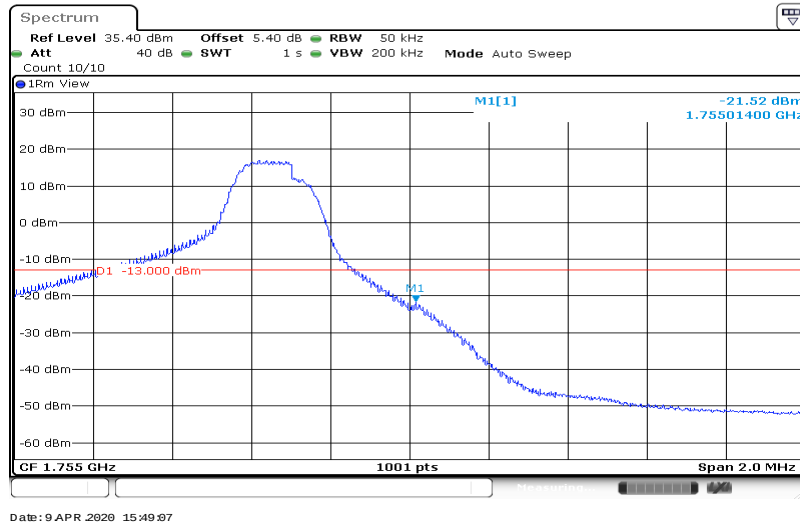


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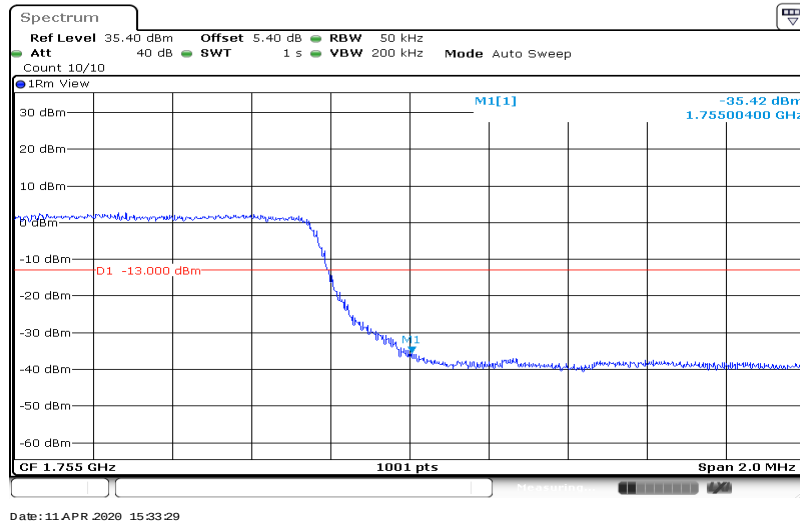


Band4-5MHz-16QAM-20375-1RB#24





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



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

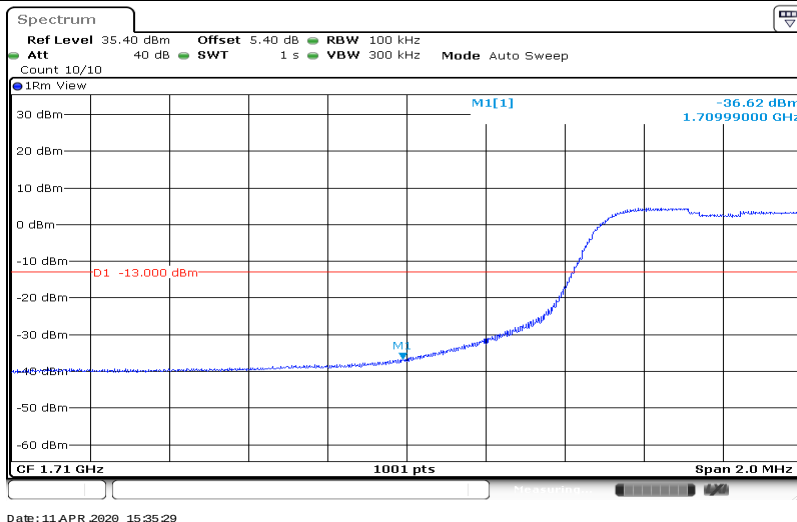


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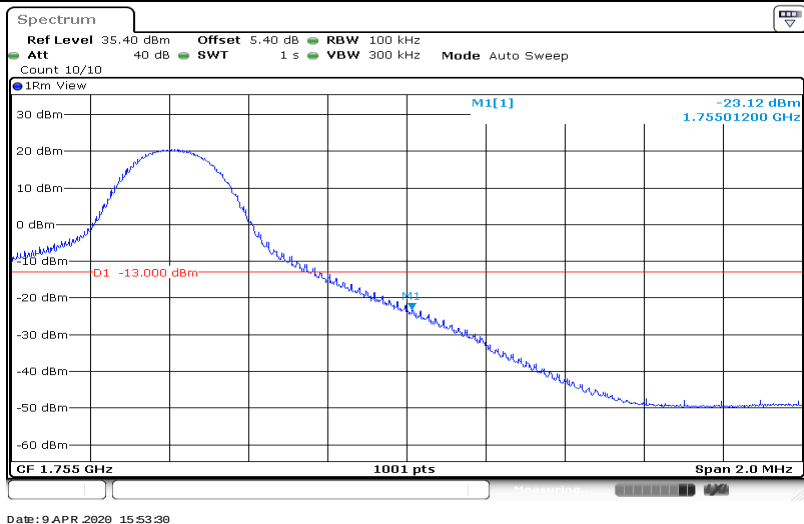


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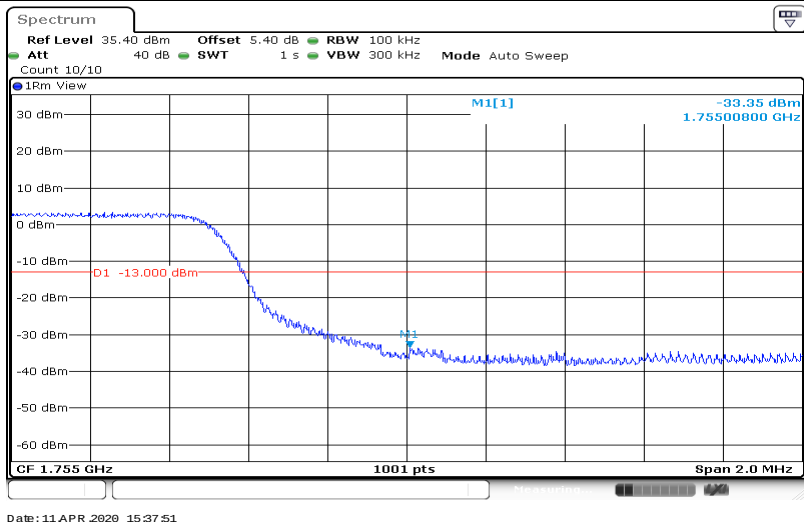


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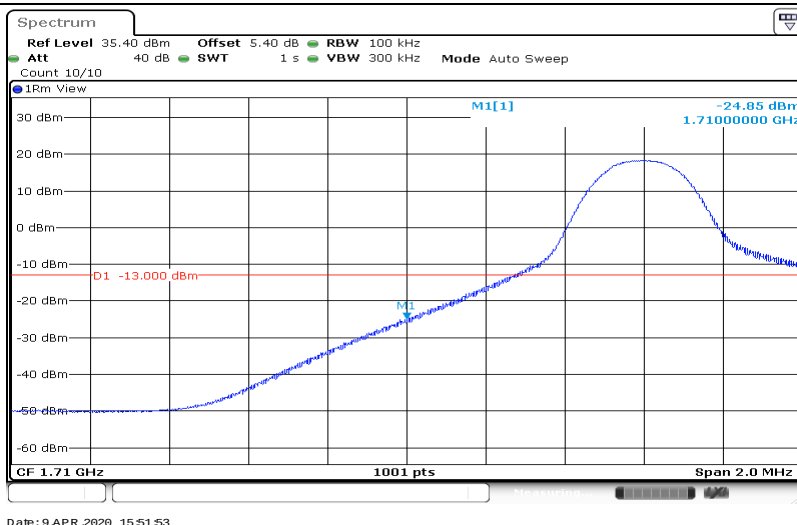


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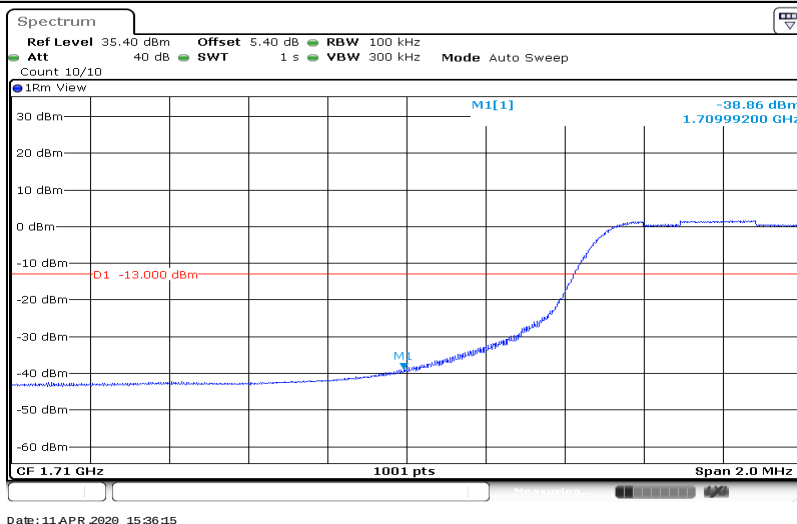


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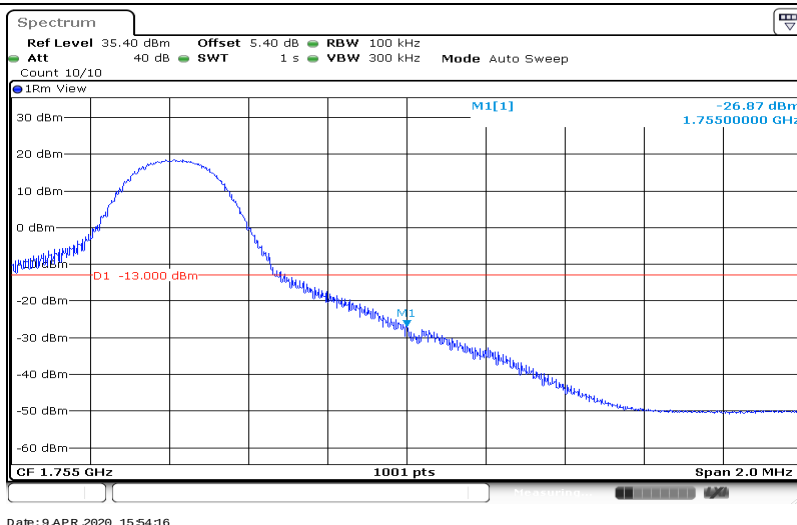


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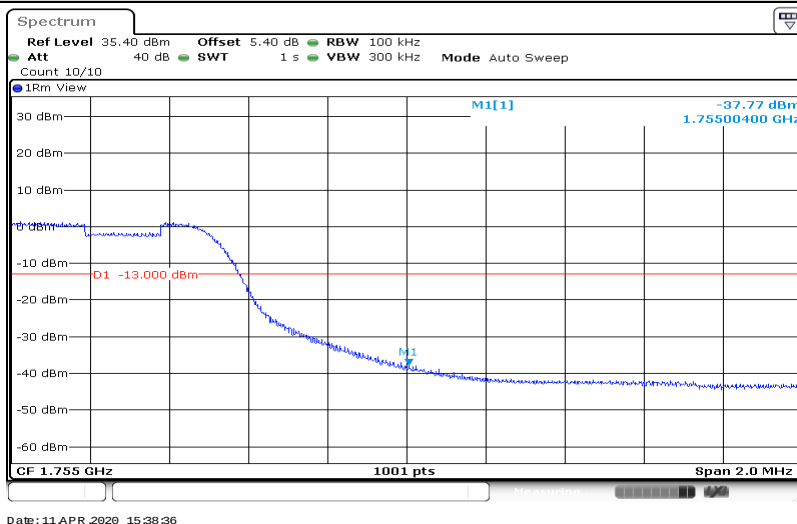


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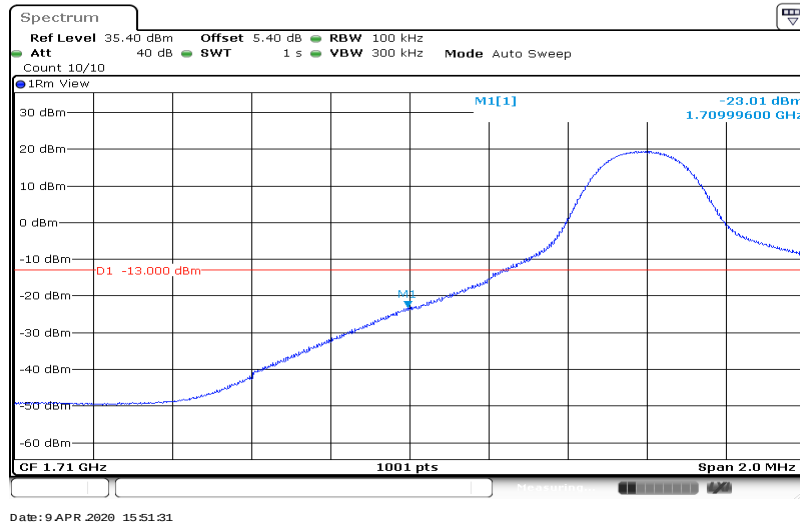


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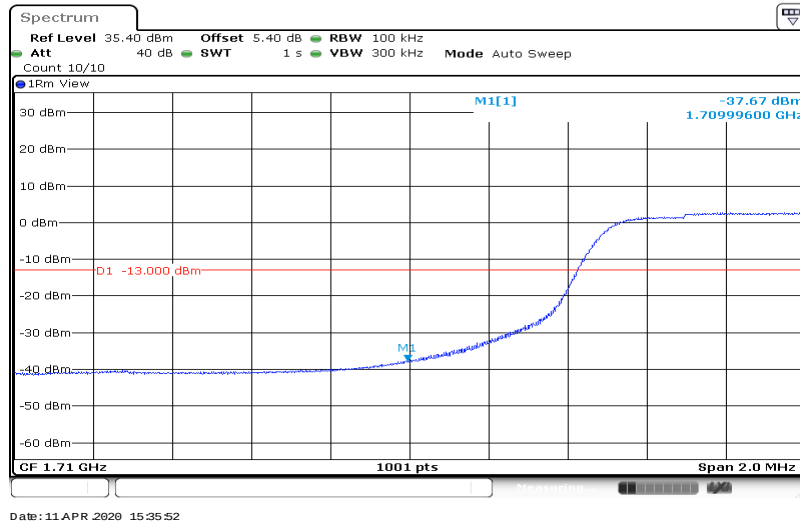


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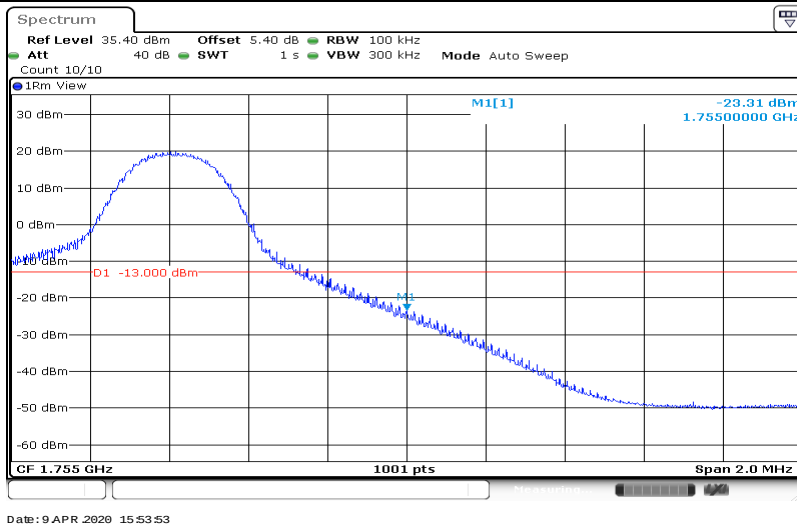


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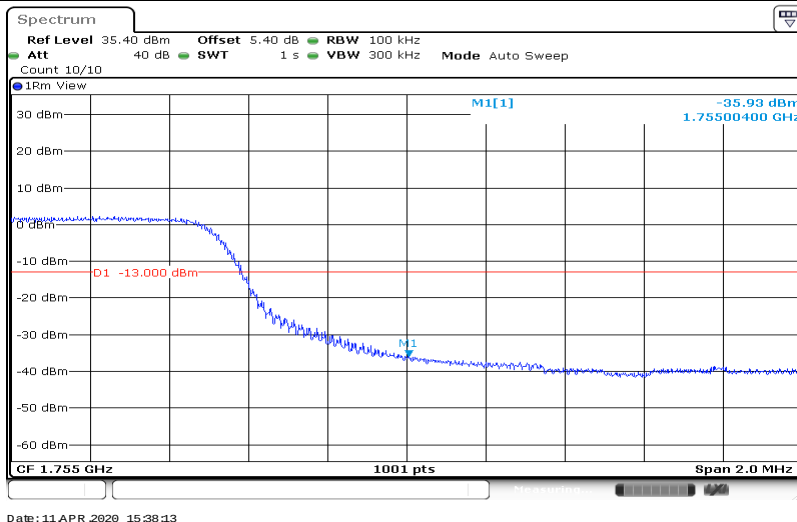


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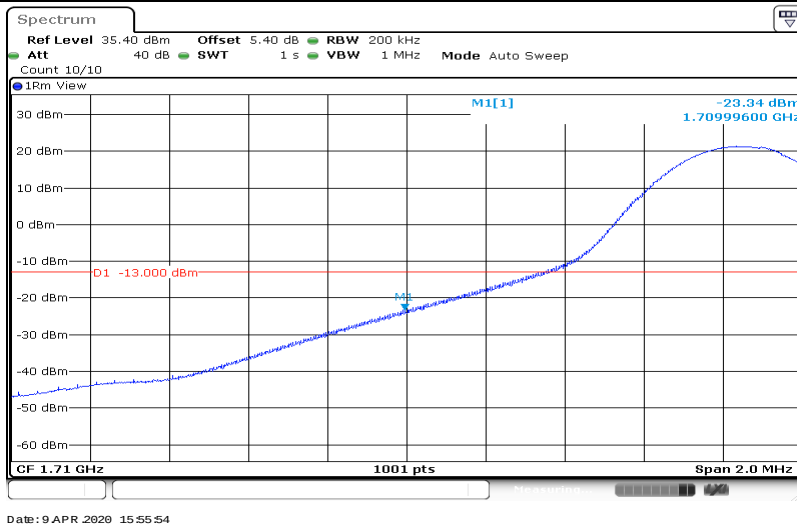
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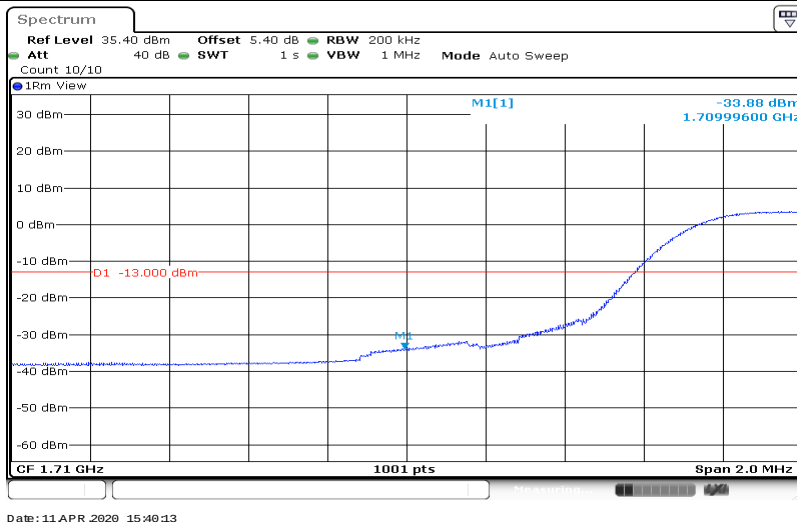
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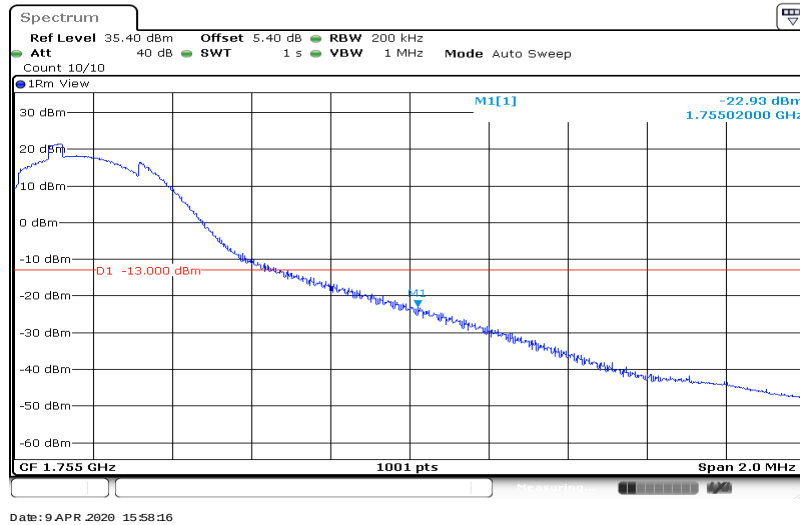


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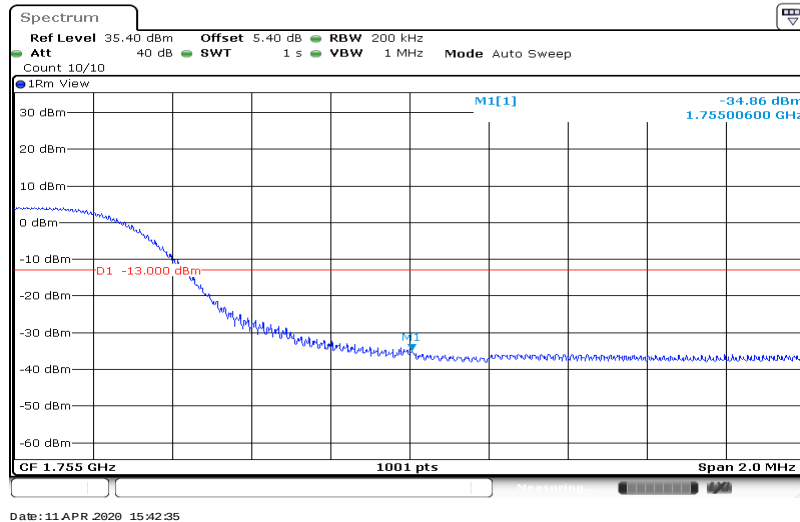


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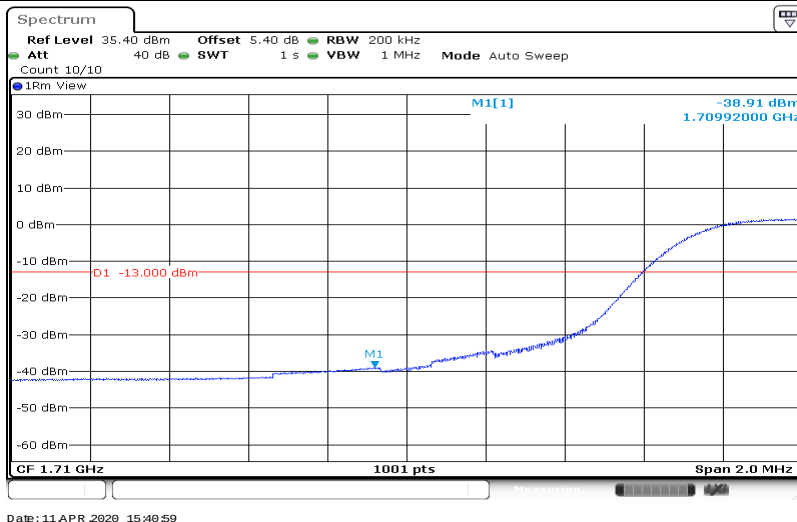


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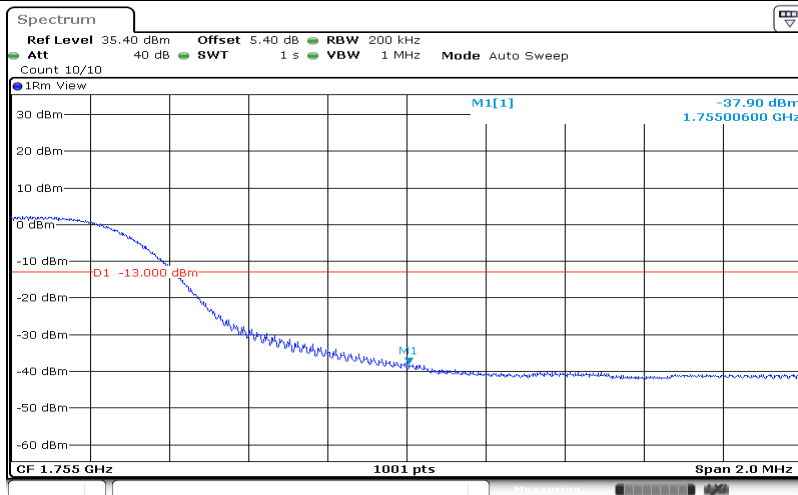
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Date: 27.MAR.2020 07:27:37

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



Date: 11 APR. 2020 15:43:20

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

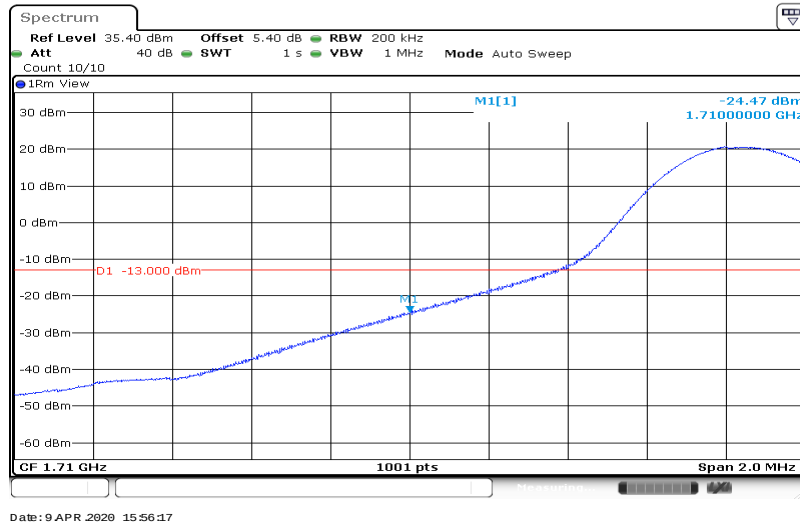


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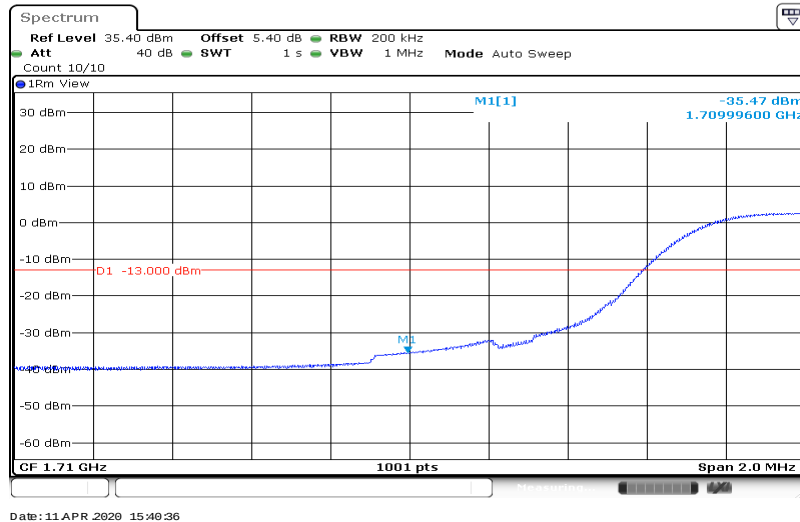
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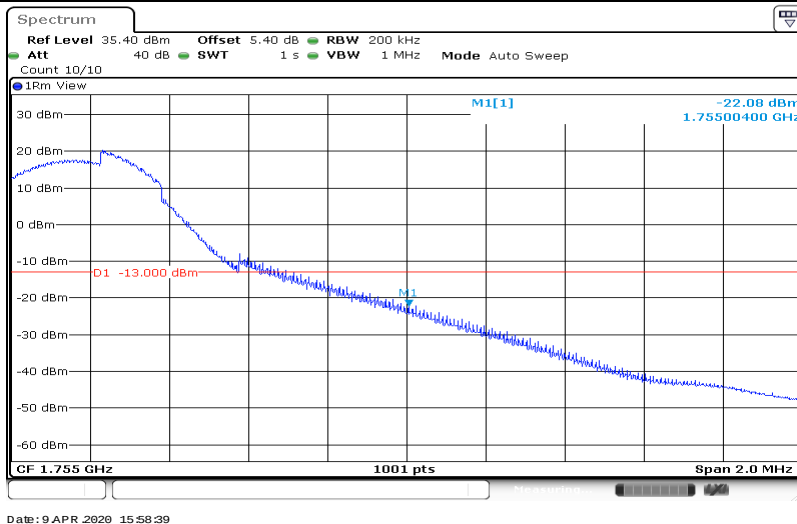


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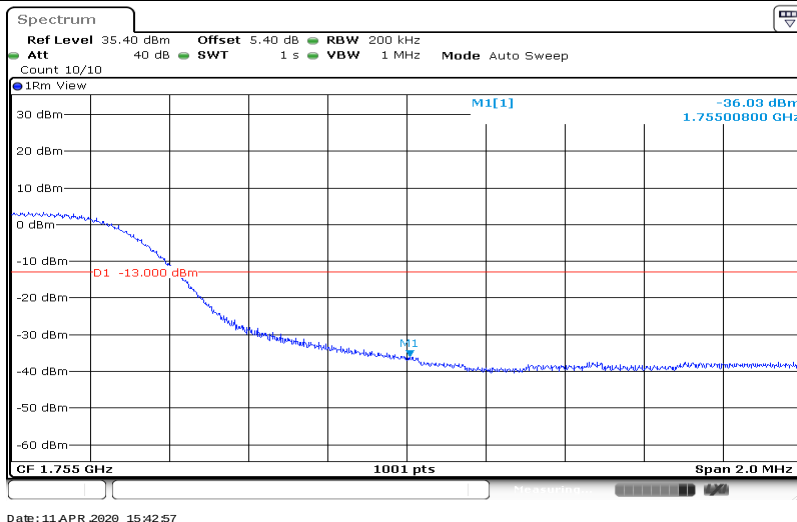


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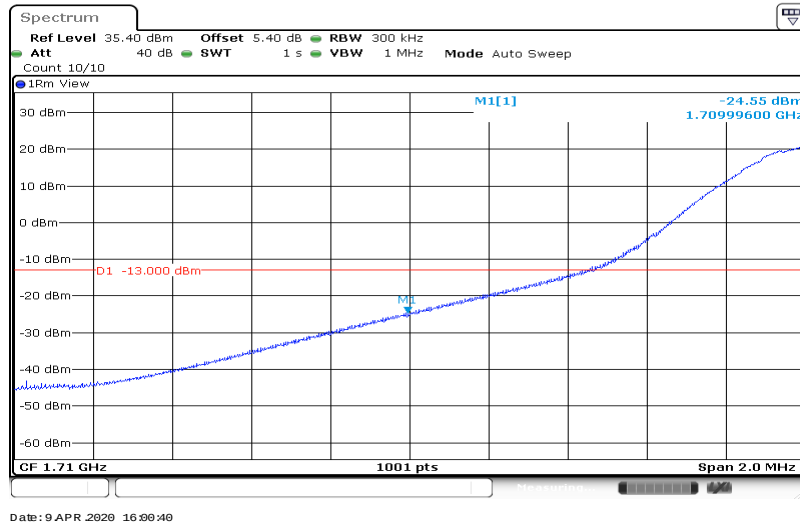


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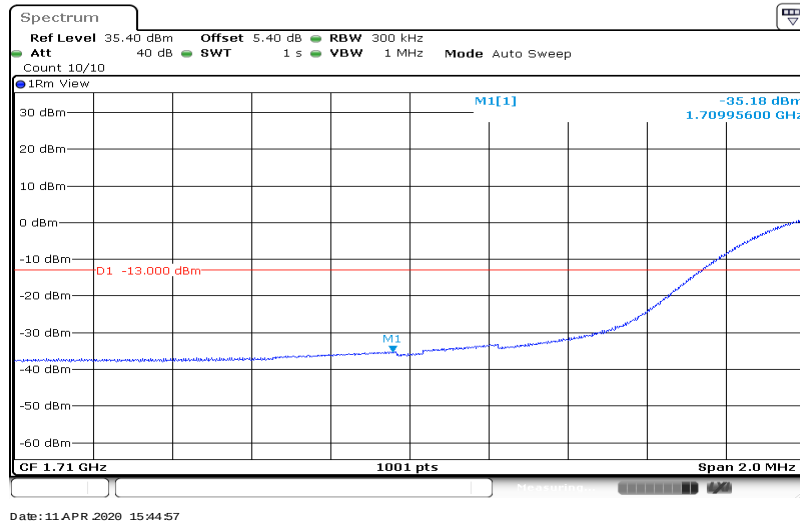


Band4-20MHz-QPSK-20050-1RB#0





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



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



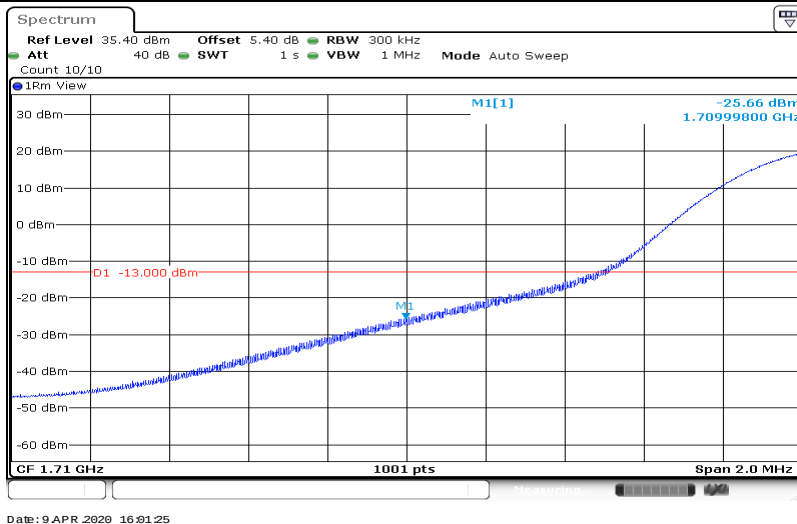


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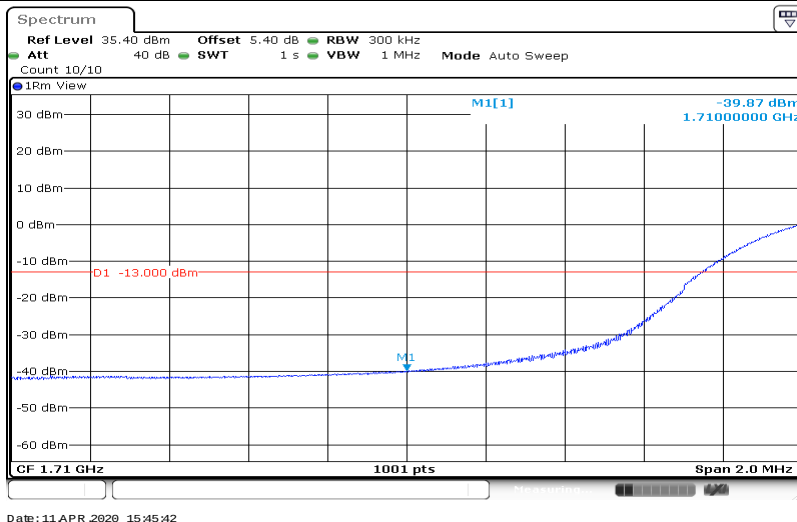


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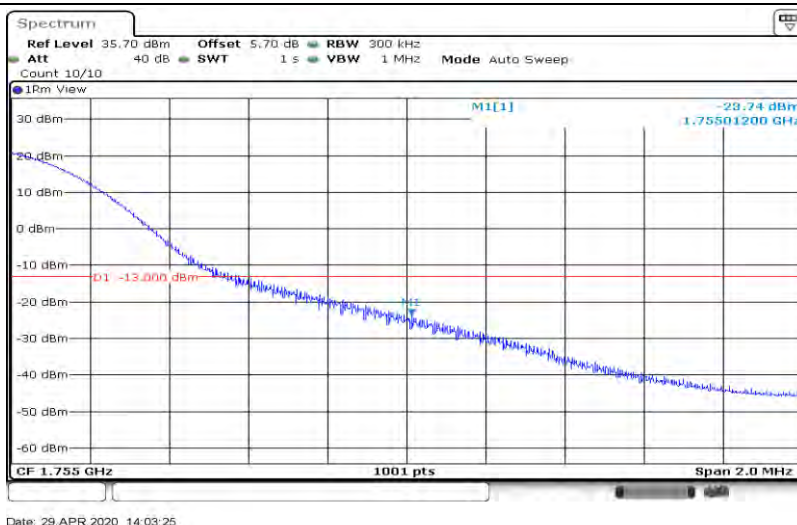


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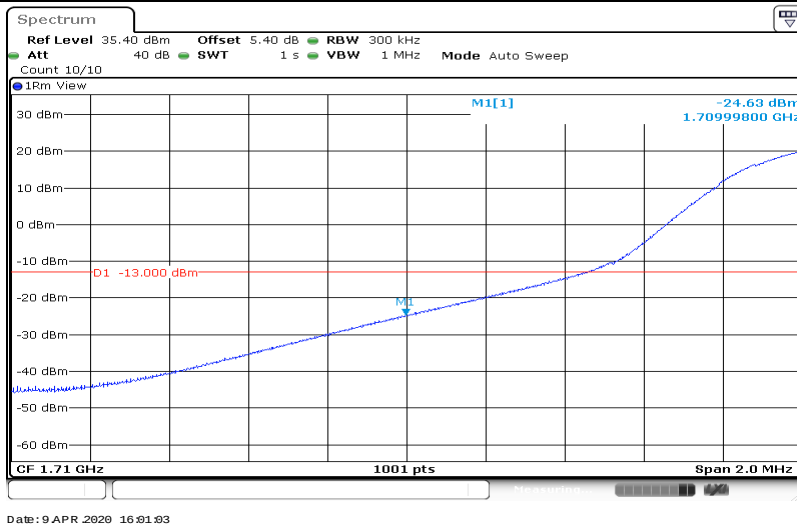
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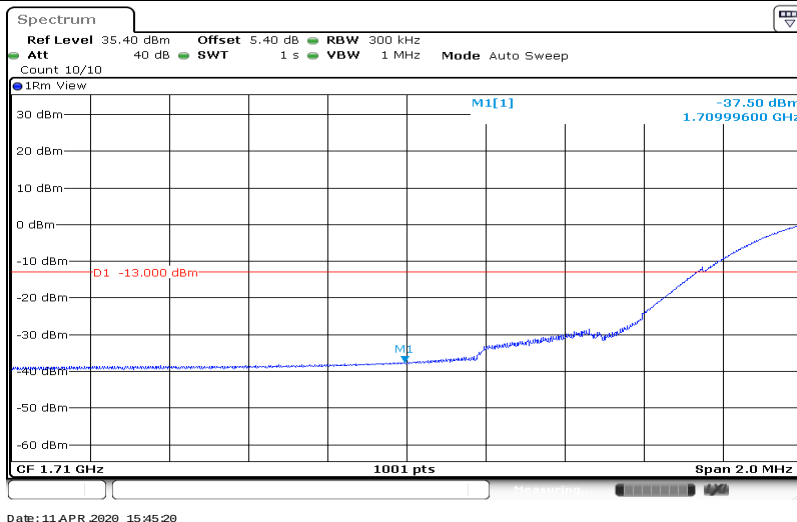
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Band4-20MHz-16QAM-20050-100RB#0



Band4-20MHz-16QAM-20300-1RB#99

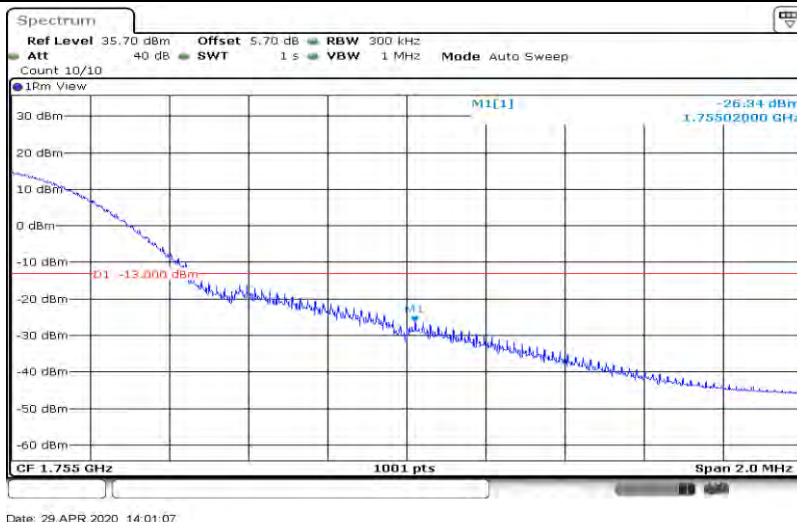


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Band4-20MHz-16QAM-20300-100RB#0





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 = $k \cdot (\text{Span} / RBW)$ " 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 Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band4	20MHz	QPSK	20050	1RB#0	Range1:30~1000MHz	-49.03	PASS
Band4	20MHz	QPSK	20050	1RB#0	Range2:1000~20000MHz	-36.96	PASS
Band4	20MHz	QPSK	20175	1RB#0	Range1:30~1000MHz	-48.71	PASS
Band4	20MHz	QPSK	20175	1RB#0	Range2:1000~20000MHz	-37.08	PASS
Band4	20MHz	QPSK	20300	1RB#0	Range1:30~1000MHz	-49.22	PASS
Band4	20MHz	QPSK	20300	1RB#0	Range2:1000~20000MHz	-37	PASS
Band4	20MHz	64QAM	20050	1RB#0	Range1:30~1000MHz	-48.48	PASS
Band4	20MHz	64QAM	20050	1RB#0	Range2:1000~20000MHz	-37.12	PASS
Band4	20MHz	64QAM	20175	1RB#0	Range1:30~1000MHz	-48.84	PASS
Band4	20MHz	64QAM	20175	1RB#0	Range2:1000~20000MHz	-36.69	PASS
Band4	20MHz	64QAM	20300	1RB#0	Range1:30~1000MHz	-48.28	PASS
Band4	20MHz	64QAM	20300	1RB#0	Range2:1000~20000MHz	-37.03	PASS
Band4	20MHz	16QAM	20050	1RB#0	Range1:30~1000MHz	-49.44	PASS
Band4	20MHz	16QAM	20050	1RB#0	Range2:1000~20000MHz	-36.8	PASS
Band4	20MHz	16QAM	20175	1RB#0	Range1:30~1000MHz	-48.5	PASS
Band4	20MHz	16QAM	20175	1RB#0	Range2:1000~20000MHz	-37.22	PASS
Band4	20MHz	16QAM	20300	1RB#0	Range1:30~1000MHz	-49.22	PASS
Band4	20MHz	16QAM	20300	1RB#0	Range2:1000~20000MHz	-36.94	PASS

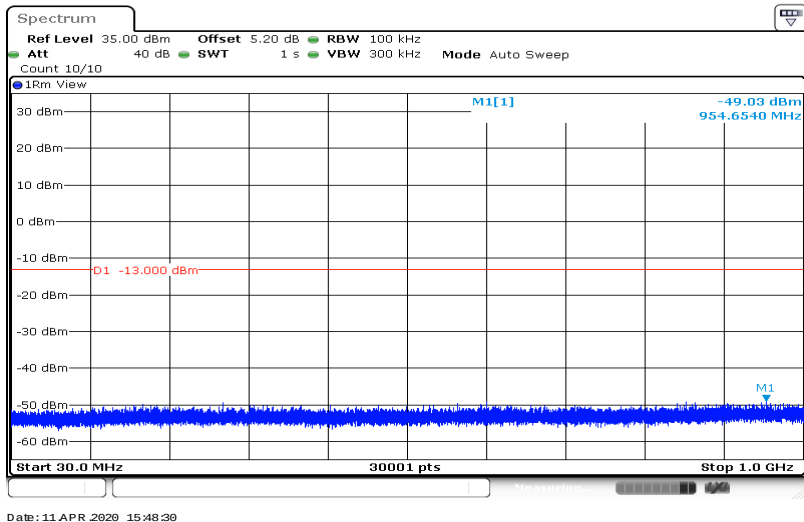
6.2. Test Plots

Band4-20MHz-QPSK-20050-1RB#0-Range1:30~1000MHz

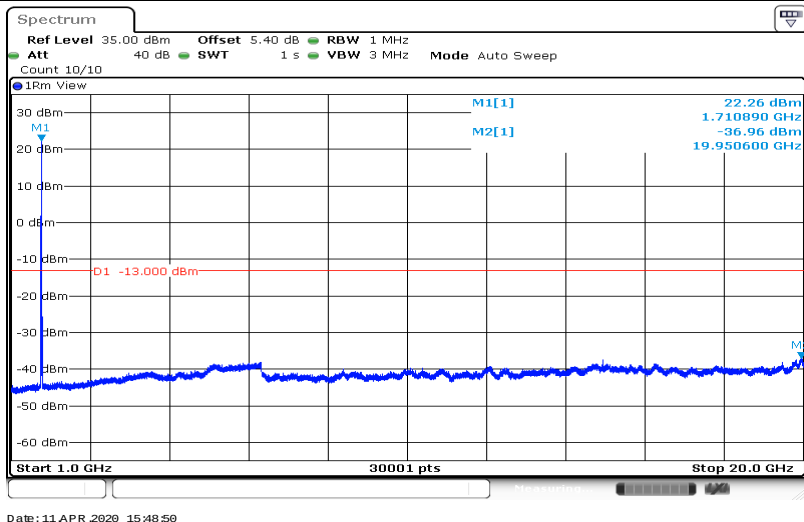


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Band4-20MHz-QPSK-20050-1RB#0-Range2:1000~20000MHz



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

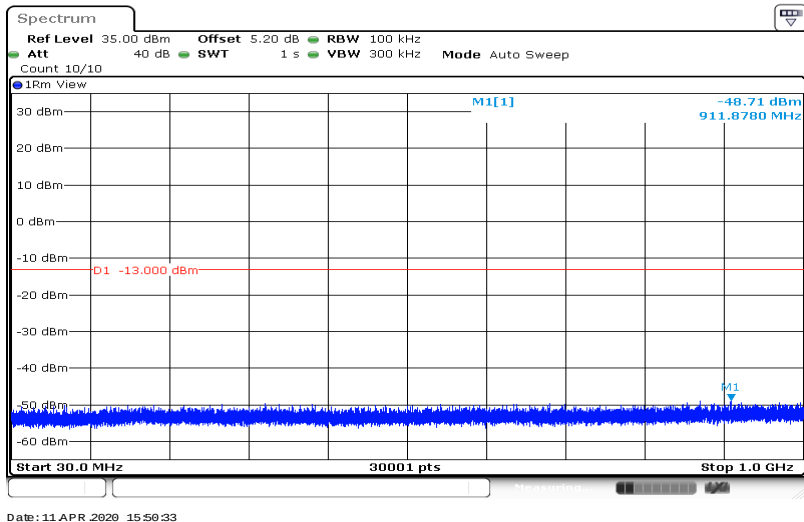


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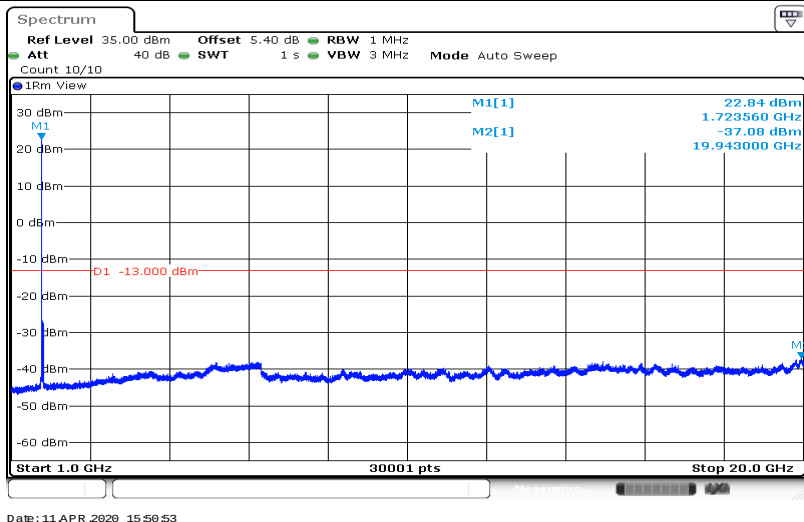
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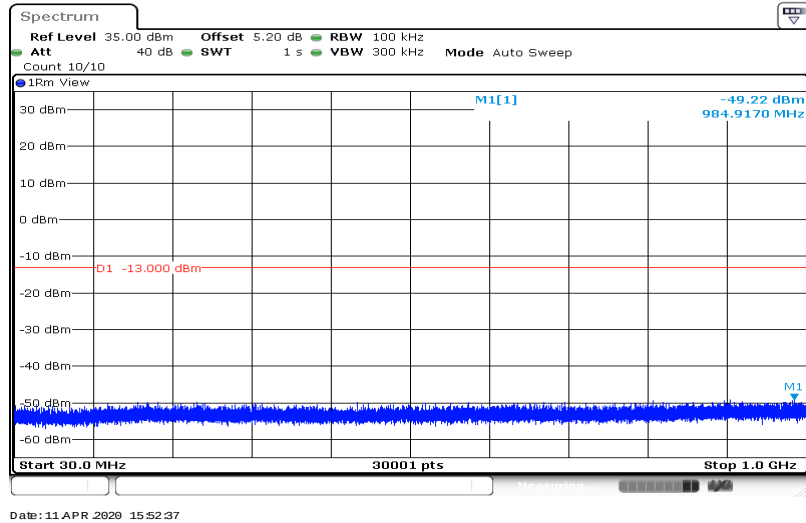


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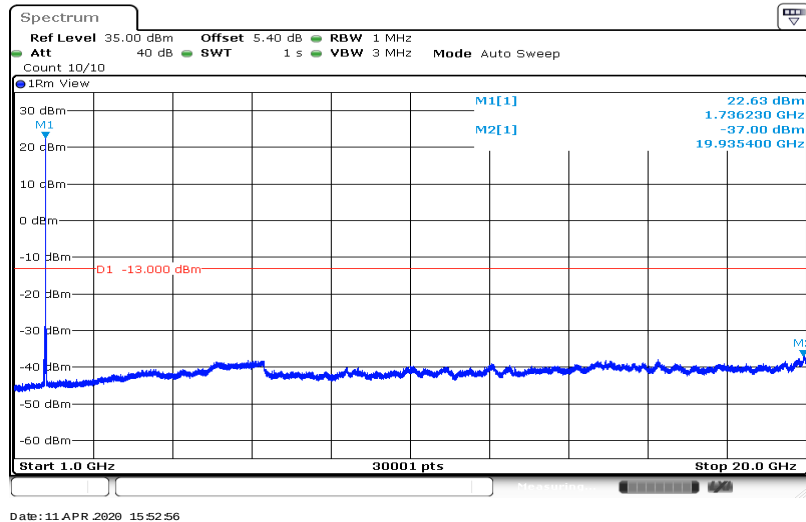


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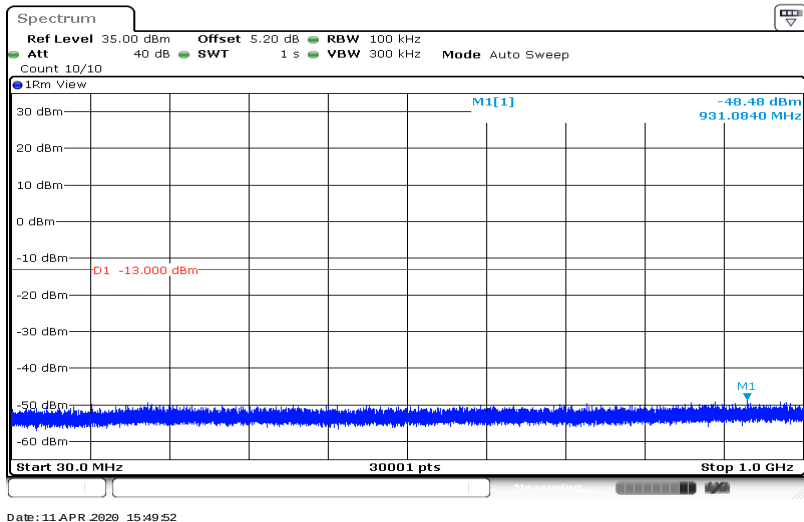


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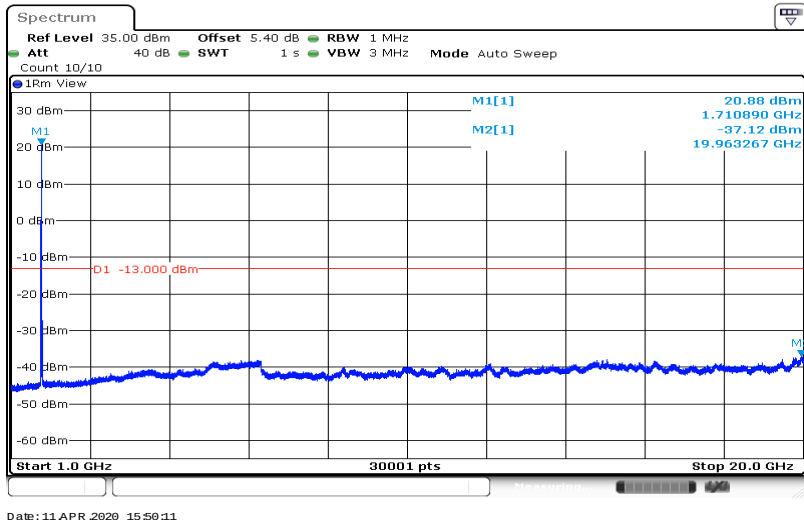


Band4-20MHz-64QAM-20050-1RB#0-Range1:30~1000MHz





Band4-20MHz-64QAM-20050-1RB#0-Range2:1000~20000MHz



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

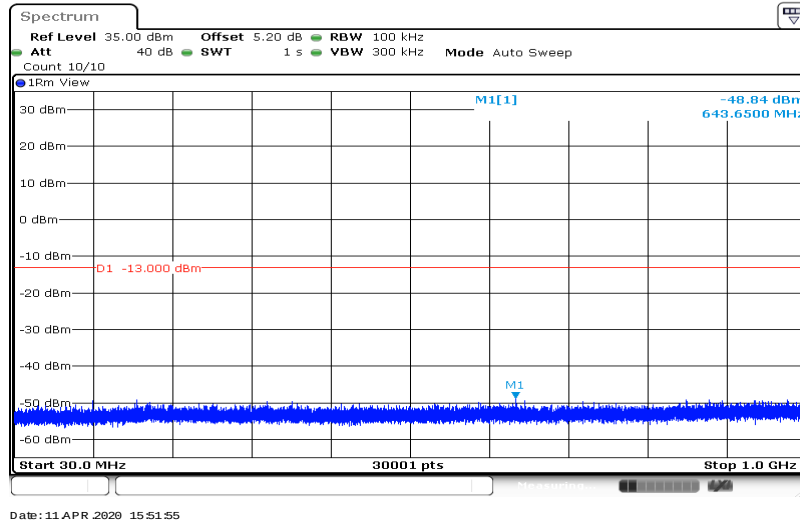


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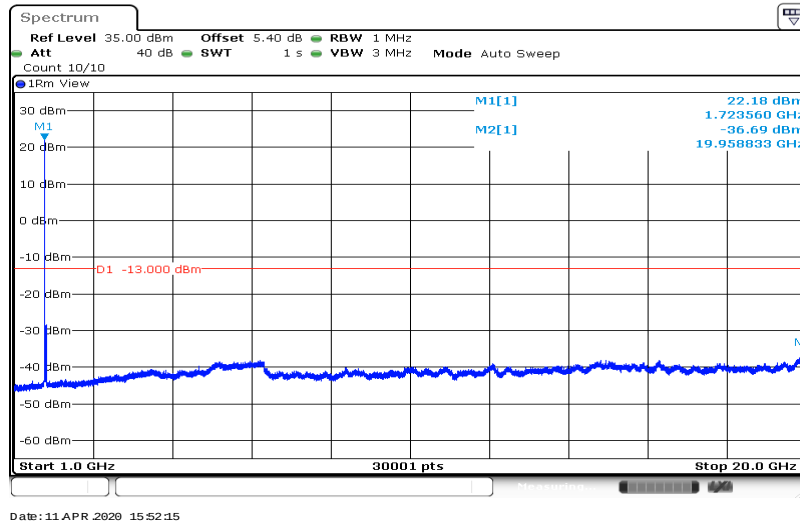
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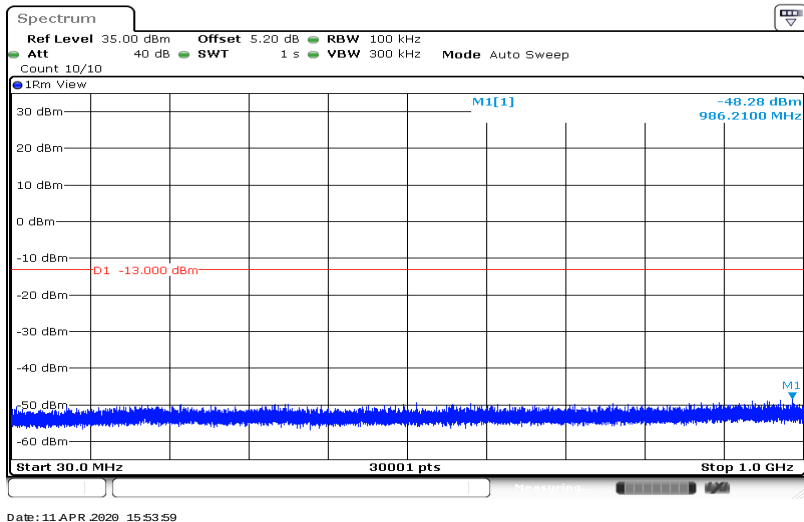


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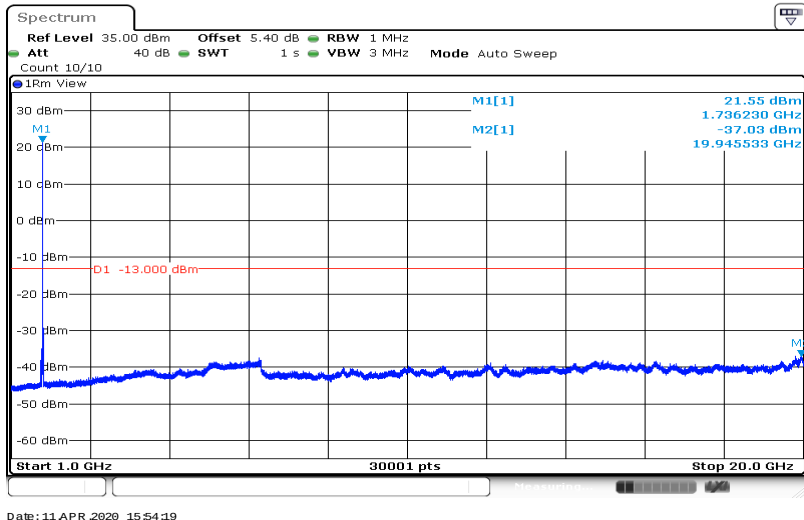


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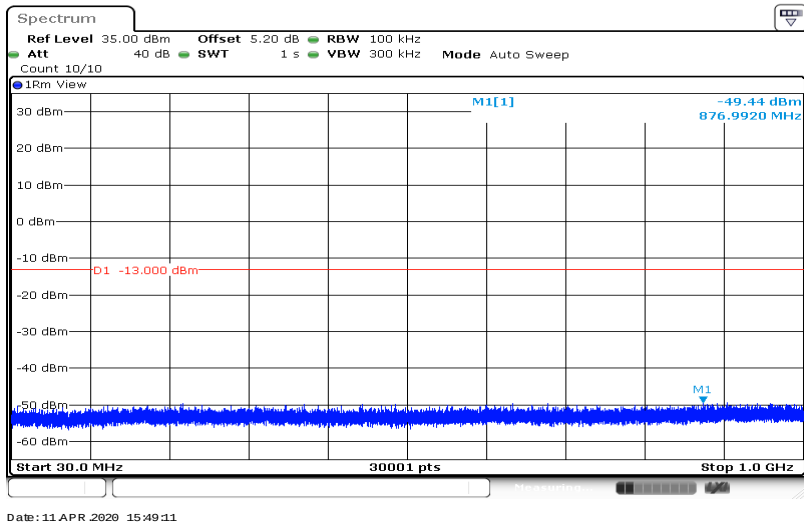


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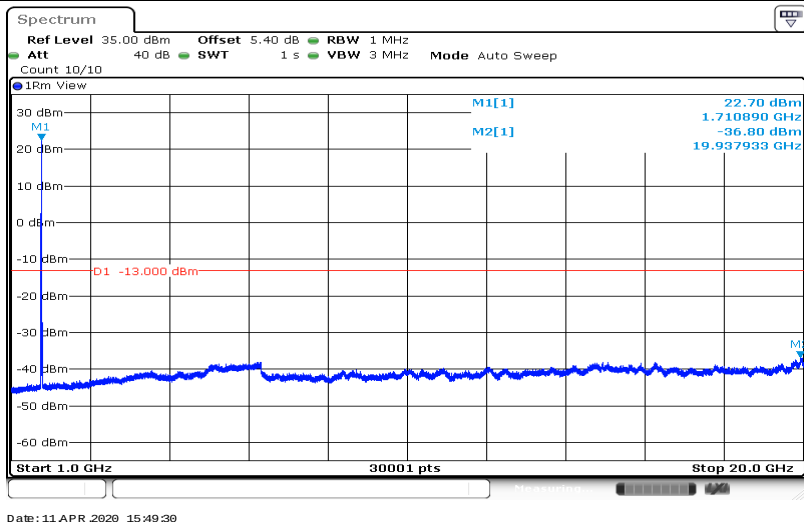


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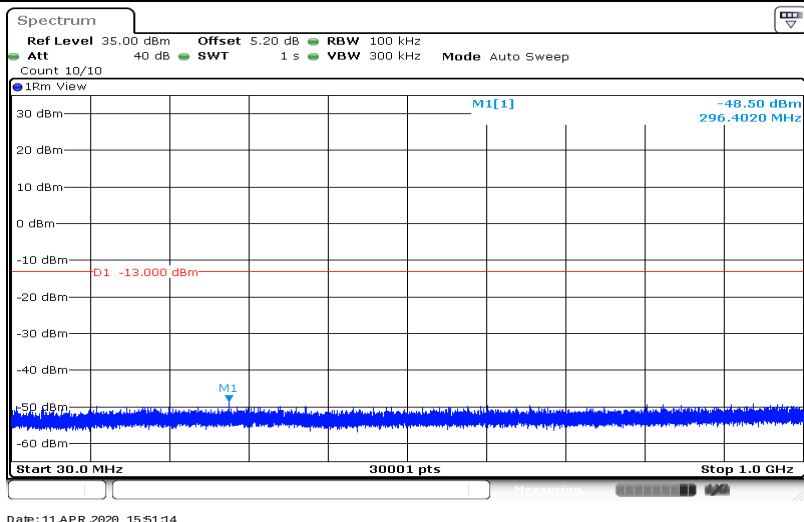


Band4-20MHz-16QAM-20050-1RB#0-Range2:1000~20000MHz

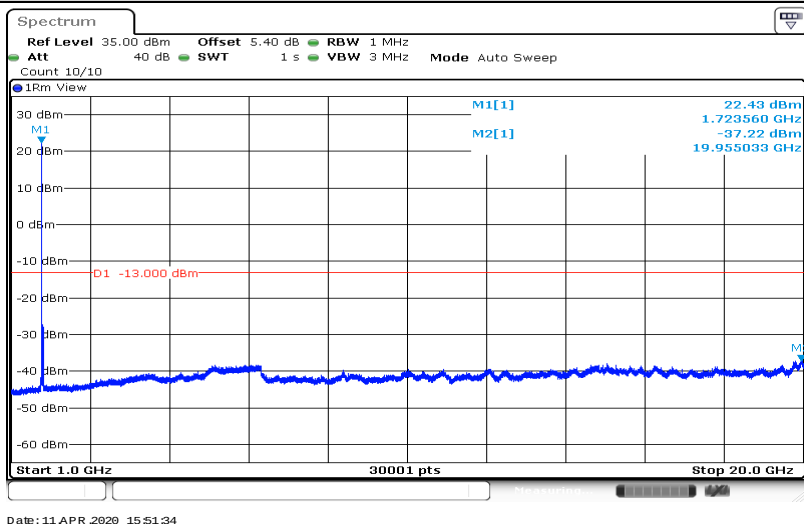


Band4-20MHz-16QAM-20175-1RB#0-Range1:30~1000MHz





Band4-20MHz-16QAM-20175-1RB#0-Range2:1000~20000MHz



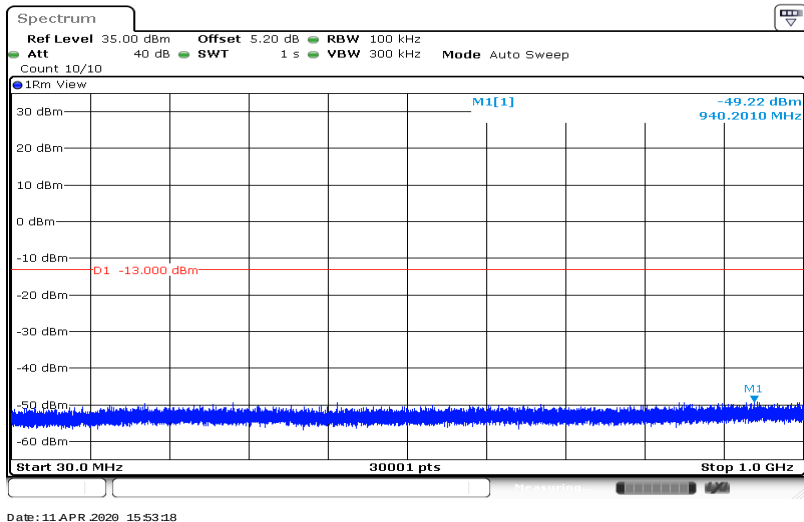
Band4-20MHz-16QAM-20300-1RB#0-Range1:30~1000MHz



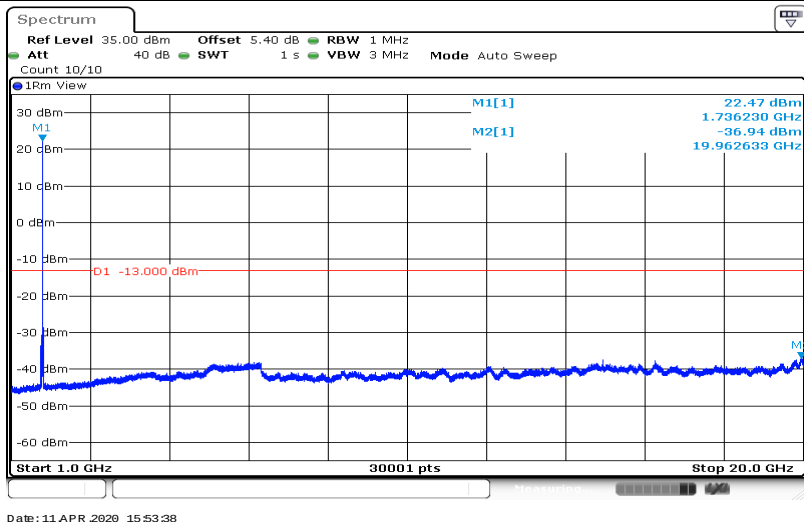
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Band4-20MHz-16QAM-20300-1RB#0-Range2:1000~20000MHz



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7. Field Strength of Spurious Radiation

7.1. Test Mode =LTE/TM1 20MHz(Down Ant)

7.1.1.Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
46.4908	-73.58	-13.00	60.58	Vertical
109.2045	-64.86	-13.00	51.86	Vertical
600.1460	-64.18	-13.00	51.18	Vertical
2697.1394	-36.48	-13.00	23.48	Vertical
6844.6282	-51.73	-13.00	38.73	Vertical
17994.9998	-38.48	-13.00	25.48	Vertical
40.8160	-62.80	-13.00	49.80	Horizontal
245.8358	-68.55	-13.00	55.55	Horizontal
743.7617	-62.03	-13.00	49.03	Horizontal
2691.5383	-35.32	-13.00	22.32	Horizontal
6844.1281	-49.97	-13.00	36.97	Horizontal
16398.9466	-42.38	-13.00	29.38	Horizontal

7.1.2.Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
49.8375	-71.72	-13.00	58.72	Vertical
112.3571	-64.88	-13.00	51.88	Vertical
510.9986	-66.59	-13.00	53.59	Vertical
2704.7409	-36.59	-13.00	23.59	Vertical
6894.6298	-51.21	-13.00	38.21	Vertical
17997.4999	-38.28	-13.00	25.28	Vertical
41.7861	-63.81	-13.00	50.81	Horizontal
229.3935	-67.94	-13.00	54.94	Horizontal
548.9274	-64.73	-13.00	51.73	Horizontal
2697.9396	-35.31	-13.00	22.31	Horizontal
6894.6298	-49.80	-13.00	36.80	Horizontal
16387.9463	-42.41	-13.00	29.41	Horizontal



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7.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
48.9644	-72.56	-13.00	59.56	Vertical
113.0362	-65.43	-13.00	52.43	Vertical
461.5746	-67.39	-13.00	54.39	Vertical
2695.5391	-36.72	-13.00	23.72	Vertical
6944.1315	-52.90	-13.00	39.90	Vertical
17999.0000	-38.38	-13.00	25.38	Vertical
42.3196	-64.57	-13.00	51.57	Horizontal
235.2138	-68.63	-13.00	55.63	Horizontal
1176.8354	-48.41	-13.00	35.41	Horizontal
2700.3401	-35.21	-13.00	22.21	Horizontal
6944.1315	-50.76	-13.00	37.76	Horizontal
16384.9462	-42.53	-13.00	29.53	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.
- 3 all modulation and all Bandwidth had been tested, but only the worst case data displayed in this report.





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	5.51	0.003203	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	VN	NT	6.81	0.003959	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	VH	NT	5.52	0.003209	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	VL	NT	5.68	0.003278	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	VN	NT	4.81	0.002776	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	VH	NT	5.35	0.003088	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	VL	NT	-7.64	-0.004378	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	VN	NT	-8.27	-0.004739	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	VH	NT	-7.48	-0.004287	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	VL	NT	1.60	0.000930	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	VN	NT	1.10	0.000640	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	VH	NT	2.30	0.001337	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	VL	NT	1.70	0.000981	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	VN	NT	-0.70	-0.000404	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	VH	NT	0.30	0.000173	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	VL	NT	-0.90	-0.000516	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	VN	NT	-2.10	-0.001203	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	VH	NT	-2.40	-0.001375	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	VL	NT	4.82	0.002802	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	VN	NT	5.15	0.002994	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	VH	NT	5.01	0.002913	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	VL	NT	-7.75	-0.004473	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	VN	NT	5.42	0.003128	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	VH	NT	-6.05	-0.003492	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	VL	NT	-7.07	-0.004052	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	VN	NT	-7.31	-0.004189	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	VH	NT	-8.70	-0.004986	±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	4.79	0.002785	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	-20	5.24	0.003047	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	0	7.41	0.004308	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	10	4.61	0.002680	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	20	-5.51	-0.003203	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	30	4.61	0.002680	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	40	4.79	0.002785	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	50	5.79	0.003366	±2.5	PASS



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Band4	20MHz	QPSK	20175	100RB#0	NV	-30	6.22	0.003590	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-20	6.61	0.003815	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	0	6.35	0.003665	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	10	-4.59	-0.002649	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	20	5.14	0.002967	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	30	5.21	0.003007	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	40	7.68	0.004433	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	50	-4.84	-0.002794	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	-30	-6.58	-0.003771	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	-20	-8.48	-0.004860	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	0	-6.65	-0.003811	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	10	-7.58	-0.004344	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	20	-7.12	-0.004080	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	30	-9.71	-0.005564	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	40	-7.98	-0.004573	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	50	-7.00	-0.004011	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	-30	2.00	0.001163	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	-20	2.30	0.001337	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	0	2.10	0.001221	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	10	0.70	0.000407	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	20	1.30	0.000756	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	30	1.60	0.000930	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	40	1.50	0.000872	±2.5	PASS
Band4	20MHz	64QAM	20050	100RB#0	NV	50	1.90	0.001105	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	-30	0.40	0.000231	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	-20	-0.70	-0.000404	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	0	1.70	0.000981	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	10	0.00	0.000000	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	20	1.40	0.000808	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	30	1.90	0.001097	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	40	0.50	0.000289	±2.5	PASS
Band4	20MHz	64QAM	20175	100RB#0	NV	50	0.90	0.000519	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	-30	-2.90	-0.001662	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	-20	-4.00	-0.002292	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	0	-2.50	-0.001433	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	10	-3.90	-0.002235	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	20	-4.60	-0.002636	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	30	-4.70	-0.002693	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	40	-2.60	-0.001490	±2.5	PASS
Band4	20MHz	64QAM	20300	100RB#0	NV	50	-2.80	-0.001605	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	-30	4.81	0.002797	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	-20	4.31	0.002506	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	0	4.65	0.002703	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	10	6.22	0.003616	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	20	5.66	0.003291	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	30	5.25	0.003052	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	40	3.98	0.002314	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	50	5.01	0.002913	±2.5	PASS



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Band4	20MHz	16QAM	20175	100RB#0	NV	-30	5.04	0.002909	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	-20	3.55	0.002049	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	0	-4.78	-0.002759	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	10	4.96	0.002863	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	20	-4.71	-0.002719	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	30	-4.86	-0.002805	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	40	5.09	0.002938	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	50	-4.62	-0.002667	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	-30	-6.44	-0.003691	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	-20	-5.58	-0.003198	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	0	-5.74	-0.003289	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	10	-5.71	-0.003272	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	20	-6.84	-0.003920	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	30	-7.68	-0.004401	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	40	-7.22	-0.004138	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	50	-7.42	-0.004252	±2.5	PASS



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No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com