



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#2	23.24	24.54	30	PASS
Band4	1.4MHz	QPSK	19957	1RB#0	22.90	24.20	30	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	22.41	23.71	30	PASS
Band4	1.4MHz	QPSK	19957	3RB#1	23.17	24.47	30	PASS
Band4	1.4MHz	QPSK	19957	3RB#3	22.89	24.19	30	PASS
Band4	1.4MHz	QPSK	19957	3RB#0	23.01	24.31	30	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	22.00	23.30	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	21.98	23.28	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	21.36	22.66	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	21.10	22.40	30	PASS
Band4	1.4MHz	QPSK	20175	3RB#0	21.48	22.78	30	PASS
Band4	1.4MHz	QPSK	20175	3RB#1	21.85	23.15	30	PASS
Band4	1.4MHz	QPSK	20175	3RB#3	21.61	22.91	30	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	20.46	21.76	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	23.44	24.74	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	23.21	24.51	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	23.44	24.74	30	PASS
Band4	1.4MHz	QPSK	20393	3RB#1	23.18	24.48	30	PASS
Band4	1.4MHz	QPSK	20393	3RB#0	22.93	24.23	30	PASS
Band4	1.4MHz	QPSK	20393	3RB#3	24.03	25.33	30	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	21.96	23.26	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	22.56	23.86	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	22.13	23.43	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	21.74	23.04	30	PASS
Band4	1.4MHz	16QAM	19957	3RB#1	22.37	23.67	30	PASS
Band4	1.4MHz	16QAM	19957	3RB#3	22.04	23.34	30	PASS
Band4	1.4MHz	16QAM	19957	3RB#0	22.16	23.46	30	PASS



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Band4	1.4MHz	16QAM	19957	6RB#0	20.99	22.29	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	20.47	21.77	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	21.05	22.35	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	20.49	21.79	30	PASS
Band4	1.4MHz	16QAM	20175	3RB#0	20.44	21.74	30	PASS
Band4	1.4MHz	16QAM	20175	3RB#3	20.54	21.84	30	PASS
Band4	1.4MHz	16QAM	20175	3RB#1	20.71	22.01	30	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	20.52	21.82	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	22.55	23.85	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	22.45	23.75	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	22.57	23.87	30	PASS
Band4	1.4MHz	16QAM	20393	3RB#0	22.24	23.54	30	PASS
Band4	1.4MHz	16QAM	20393	3RB#3	23.14	24.44	30	PASS
Band4	1.4MHz	16QAM	20393	3RB#1	22.39	23.69	30	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	21.24	22.54	30	PASS
Band4	3MHz	QPSK	19965	1RB#14	21.69	22.99	30	PASS
Band4	3MHz	QPSK	19965	1RB#8	23.36	24.66	30	PASS
Band4	3MHz	QPSK	19965	1RB#0	22.96	24.26	30	PASS
Band4	3MHz	QPSK	19965	8RB#0	23.24	24.54	30	PASS
Band4	3MHz	QPSK	19965	8RB#4	23.20	24.50	30	PASS
Band4	3MHz	QPSK	19965	8RB#7	23.30	24.60	30	PASS
Band4	3MHz	QPSK	19965	15RB#0	21.97	23.27	30	PASS
Band4	3MHz	QPSK	20175	1RB#0	21.45	22.75	30	PASS
Band4	3MHz	QPSK	20175	1RB#8	22.15	23.45	30	PASS
Band4	3MHz	QPSK	20175	1RB#14	20.63	21.93	30	PASS
Band4	3MHz	QPSK	20175	8RB#0	21.98	23.28	30	PASS
Band4	3MHz	QPSK	20175	8RB#4	21.99	23.29	30	PASS
Band4	3MHz	QPSK	20175	8RB#7	21.98	23.28	30	PASS
Band4	3MHz	QPSK	20175	15RB#0	20.54	21.84	30	PASS
Band4	3MHz	QPSK	20385	1RB#14	22.94	24.24	30	PASS
Band4	3MHz	QPSK	20385	1RB#8	23.56	24.86	30	PASS
Band4	3MHz	QPSK	20385	1RB#0	23.15	24.45	30	PASS
Band4	3MHz	QPSK	20385	8RB#4	23.38	24.68	30	PASS



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Band4	3MHz	QPSK	20385	8RB#7	23.69	24.99	30	PASS
Band4	3MHz	QPSK	20385	8RB#0	23.36	24.66	30	PASS
Band4	3MHz	QPSK	20385	15RB#0	22.18	23.48	30	PASS
Band4	3MHz	16QAM	19965	1RB#14	21.11	22.41	30	PASS
Band4	3MHz	16QAM	19965	1RB#8	22.68	23.98	30	PASS
Band4	3MHz	16QAM	19965	1RB#0	22.32	23.62	30	PASS
Band4	3MHz	16QAM	19965	8RB#0	22.31	23.61	30	PASS
Band4	3MHz	16QAM	19965	8RB#7	22.44	23.74	30	PASS
Band4	3MHz	16QAM	19965	8RB#4	22.32	23.62	30	PASS
Band4	3MHz	16QAM	19965	15RB#0	20.88	22.18	30	PASS
Band4	3MHz	16QAM	20175	1RB#0	20.80	22.10	30	PASS
Band4	3MHz	16QAM	20175	1RB#14	20.72	22.02	30	PASS
Band4	3MHz	16QAM	20175	1RB#8	21.18	22.48	30	PASS
Band4	3MHz	16QAM	20175	8RB#4	20.77	22.07	30	PASS
Band4	3MHz	16QAM	20175	8RB#7	20.82	22.12	30	PASS
Band4	3MHz	16QAM	20175	8RB#0	20.74	22.04	30	PASS
Band4	3MHz	16QAM	20175	15RB#0	19.50	20.80	30	PASS
Band4	3MHz	16QAM	20385	1RB#0	22.38	23.68	30	PASS
Band4	3MHz	16QAM	20385	1RB#14	22.26	23.56	30	PASS
Band4	3MHz	16QAM	20385	1RB#8	22.85	24.15	30	PASS
Band4	3MHz	16QAM	20385	8RB#7	22.70	24.00	30	PASS
Band4	3MHz	16QAM	20385	8RB#0	22.38	23.68	30	PASS
Band4	3MHz	16QAM	20385	8RB#4	22.52	23.82	30	PASS
Band4	3MHz	16QAM	20385	15RB#0	21.37	22.67	30	PASS
Band4	5MHz	QPSK	19975	1RB#24	22.12	23.42	30	PASS
Band4	5MHz	QPSK	19975	1RB#0	23.07	24.37	30	PASS
Band4	5MHz	QPSK	19975	1RB#12	22.74	24.04	30	PASS
Band4	5MHz	QPSK	19975	12RB#0	23.08	24.38	30	PASS
Band4	5MHz	QPSK	19975	12RB#6	22.88	24.18	30	PASS
Band4	5MHz	QPSK	19975	12RB#13	22.94	24.24	30	PASS
Band4	5MHz	QPSK	19975	25RB#0	21.85	23.15	30	PASS
Band4	5MHz	QPSK	20175	1RB#12	21.59	22.89	30	PASS
Band4	5MHz	QPSK	20175	1RB#0	21.55	22.85	30	PASS

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Band4	5MHz	QPSK	20175	1RB#24	20.83	22.13	30	PASS
Band4	5MHz	QPSK	20175	12RB#13	21.81	23.11	30	PASS
Band4	5MHz	QPSK	20175	12RB#0	21.74	23.04	30	PASS
Band4	5MHz	QPSK	20175	12RB#6	21.77	23.07	30	PASS
Band4	5MHz	QPSK	20175	25RB#0	20.61	21.91	30	PASS
Band4	5MHz	QPSK	20375	1RB#0	23.67	24.97	30	PASS
Band4	5MHz	QPSK	20375	1RB#12	23.18	24.48	30	PASS
Band4	5MHz	QPSK	20375	1RB#24	23.19	24.49	30	PASS
Band4	5MHz	QPSK	20375	12RB#0	23.35	24.65	30	PASS
Band4	5MHz	QPSK	20375	12RB#6	23.25	24.55	30	PASS
Band4	5MHz	QPSK	20375	12RB#13	23.90	25.20	30	PASS
Band4	5MHz	QPSK	20375	25RB#0	22.36	23.66	30	PASS
Band4	5MHz	16QAM	19975	1RB#24	21.58	22.88	30	PASS
Band4	5MHz	16QAM	19975	1RB#0	22.42	23.72	30	PASS
Band4	5MHz	16QAM	19975	1RB#12	22.03	23.33	30	PASS
Band4	5MHz	16QAM	19975	12RB#0	22.19	23.49	30	PASS
Band4	5MHz	16QAM	19975	12RB#6	22.03	23.33	30	PASS
Band4	5MHz	16QAM	19975	12RB#13	22.07	23.37	30	PASS
Band4	5MHz	16QAM	19975	25RB#0	20.78	22.08	30	PASS
Band4	5MHz	16QAM	20175	1RB#0	21.00	22.30	30	PASS
Band4	5MHz	16QAM	20175	1RB#12	20.67	21.97	30	PASS
Band4	5MHz	16QAM	20175	1RB#24	20.94	22.24	30	PASS
Band4	5MHz	16QAM	20175	12RB#0	20.49	21.79	30	PASS
Band4	5MHz	16QAM	20175	12RB#6	20.56	21.86	30	PASS
Band4	5MHz	16QAM	20175	12RB#13	20.63	21.93	30	PASS
Band4	5MHz	16QAM	20175	25RB#0	20.59	21.89	30	PASS
Band4	5MHz	16QAM	20375	1RB#0	22.77	24.07	30	PASS
Band4	5MHz	16QAM	20375	1RB#24	22.53	23.83	30	PASS
Band4	5MHz	16QAM	20375	1RB#12	22.58	23.88	30	PASS
Band4	5MHz	16QAM	20375	12RB#0	22.48	23.78	30	PASS
Band4	5MHz	16QAM	20375	12RB#6	22.41	23.71	30	PASS
Band4	5MHz	16QAM	20375	12RB#13	22.86	24.16	30	PASS
Band4	5MHz	16QAM	20375	25RB#0	21.51	22.81	30	PASS



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Band4	10MHz	QPSK	20000	1RB#0	23.22	24.52	30	PASS
Band4	10MHz	QPSK	20000	1RB#24	22.67	23.97	30	PASS
Band4	10MHz	QPSK	20000	1RB#49	21.78	23.08	30	PASS
Band4	10MHz	QPSK	20000	25RB#12	22.70	24.00	30	PASS
Band4	10MHz	QPSK	20000	25RB#0	23.09	24.39	30	PASS
Band4	10MHz	QPSK	20000	25RB#25	22.89	24.19	30	PASS
Band4	10MHz	QPSK	20000	50RB#0	21.76	23.06	30	PASS
Band4	10MHz	QPSK	20175	1RB#49	21.60	22.90	30	PASS
Band4	10MHz	QPSK	20175	1RB#0	21.76	23.06	30	PASS
Band4	10MHz	QPSK	20175	1RB#24	21.84	23.14	30	PASS
Band4	10MHz	QPSK	20175	25RB#0	22.05	23.35	30	PASS
Band4	10MHz	QPSK	20175	25RB#12	21.91	23.21	30	PASS
Band4	10MHz	QPSK	20175	25RB#25	21.98	23.28	30	PASS
Band4	10MHz	QPSK	20175	50RB#0	20.74	22.04	30	PASS
Band4	10MHz	QPSK	20350	1RB#24	23.49	24.79	30	PASS
Band4	10MHz	QPSK	20350	1RB#49	23.77	25.07	30	PASS
Band4	10MHz	QPSK	20350	1RB#0	23.48	24.78	30	PASS
Band4	10MHz	QPSK	20350	25RB#0	23.94	25.24	30	PASS
Band4	10MHz	QPSK	20350	25RB#25	24.16	25.46	30	PASS
Band4	10MHz	QPSK	20350	25RB#12	23.45	24.75	30	PASS
Band4	10MHz	QPSK	20350	50RB#0	22.39	23.69	30	PASS
Band4	10MHz	16QAM	20000	1RB#24	22.09	23.39	30	PASS
Band4	10MHz	16QAM	20000	1RB#49	21.04	22.34	30	PASS
Band4	10MHz	16QAM	20000	1RB#0	22.58	23.88	30	PASS
Band4	10MHz	16QAM	20000	25RB#0	22.13	23.43	30	PASS
Band4	10MHz	16QAM	20000	25RB#12	21.83	23.13	30	PASS
Band4	10MHz	16QAM	20000	25RB#25	21.93	23.23	30	PASS
Band4	10MHz	16QAM	20000	50RB#0	21.58	22.88	30	PASS
Band4	10MHz	16QAM	20175	1RB#49	20.75	22.05	30	PASS
Band4	10MHz	16QAM	20175	1RB#0	21.08	22.38	30	PASS
Band4	10MHz	16QAM	20175	1RB#24	20.90	22.20	30	PASS
Band4	10MHz	16QAM	20175	25RB#25	20.76	22.06	30	PASS
Band4	10MHz	16QAM	20175	25RB#12	20.66	21.96	30	PASS

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Band4	10MHz	16QAM	20175	25RB#0	20.76	22.06	30	PASS
Band4	10MHz	16QAM	20175	50RB#0	20.43	21.73	30	PASS
Band4	10MHz	16QAM	20350	1RB#24	22.67	23.97	30	PASS
Band4	10MHz	16QAM	20350	1RB#49	23.05	24.35	30	PASS
Band4	10MHz	16QAM	20350	1RB#0	22.54	23.84	30	PASS
Band4	10MHz	16QAM	20350	25RB#25	23.12	24.42	30	PASS
Band4	10MHz	16QAM	20350	25RB#12	22.54	23.84	30	PASS
Band4	10MHz	16QAM	20350	25RB#0	22.75	24.05	30	PASS
Band4	10MHz	16QAM	20350	50RB#0	21.84	23.14	30	PASS
Band4	15MHz	QPSK	20025	1RB#74	21.63	22.93	30	PASS
Band4	15MHz	QPSK	20025	1RB#0	23.28	24.58	30	PASS
Band4	15MHz	QPSK	20025	1RB#38	22.50	23.80	30	PASS
Band4	15MHz	QPSK	20025	36RB#39	22.57	23.87	30	PASS
Band4	15MHz	QPSK	20025	36RB#18	22.63	23.93	30	PASS
Band4	15MHz	QPSK	20025	36RB#0	23.07	24.37	30	PASS
Band4	15MHz	QPSK	20025	75RB#0	21.77	23.07	30	PASS
Band4	15MHz	QPSK	20175	1RB#74	22.20	23.50	30	PASS
Band4	15MHz	QPSK	20175	1RB#38	21.74	23.04	30	PASS
Band4	15MHz	QPSK	20175	1RB#0	21.66	22.96	30	PASS
Band4	15MHz	QPSK	20175	36RB#0	21.90	23.20	30	PASS
Band4	15MHz	QPSK	20175	36RB#39	22.10	23.40	30	PASS
Band4	15MHz	QPSK	20175	36RB#18	22.11	23.41	30	PASS
Band4	15MHz	QPSK	20175	75RB#0	20.78	22.08	30	PASS
Band4	15MHz	QPSK	20325	1RB#74	23.85	25.15	30	PASS
Band4	15MHz	QPSK	20325	1RB#38	23.34	24.64	30	PASS
Band4	15MHz	QPSK	20325	1RB#0	22.88	24.18	30	PASS
Band4	15MHz	QPSK	20325	36RB#18	23.45	24.75	30	PASS
Band4	15MHz	QPSK	20325	36RB#0	23.27	24.57	30	PASS
Band4	15MHz	QPSK	20325	36RB#39	24.26	25.56	30	PASS
Band4	15MHz	QPSK	20325	75RB#0	22.21	23.51	30	PASS
Band4	15MHz	16QAM	20025	1RB#0	22.59	23.89	30	PASS
Band4	15MHz	16QAM	20025	1RB#74	20.98	22.28	30	PASS
Band4	15MHz	16QAM	20025	1RB#38	21.72	23.02	30	PASS

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Band4	15MHz	16QAM	20025	36RB#0	22.11	23.41	30	PASS
Band4	15MHz	16QAM	20025	36RB#39	21.63	22.93	30	PASS
Band4	15MHz	16QAM	20025	36RB#18	21.74	23.04	30	PASS
Band4	15MHz	16QAM	20025	75RB#0	22.27	23.57	30	PASS
Band4	15MHz	16QAM	20175	1RB#38	20.74	22.04	30	PASS
Band4	15MHz	16QAM	20175	1RB#74	21.28	22.58	30	PASS
Band4	15MHz	16QAM	20175	1RB#0	20.72	22.02	30	PASS
Band4	15MHz	16QAM	20175	36RB#18	20.89	22.19	30	PASS
Band4	15MHz	16QAM	20175	36RB#0	20.64	21.94	30	PASS
Band4	15MHz	16QAM	20175	36RB#39	20.90	22.20	30	PASS
Band4	15MHz	16QAM	20175	75RB#0	21.15	22.45	30	PASS
Band4	15MHz	16QAM	20325	1RB#74	23.27	24.57	30	PASS
Band4	15MHz	16QAM	20325	1RB#0	21.86	23.16	30	PASS
Band4	15MHz	16QAM	20325	1RB#38	22.52	23.82	30	PASS
Band4	15MHz	16QAM	20325	36RB#0	22.20	23.50	30	PASS
Band4	15MHz	16QAM	20325	36RB#39	23.22	24.52	30	PASS
Band4	15MHz	16QAM	20325	36RB#18	22.55	23.85	30	PASS
Band4	15MHz	16QAM	20325	75RB#0	21.94	23.24	30	PASS
Band4	20MHz	QPSK	20050	1RB#99	21.25	22.55	30	PASS
Band4	20MHz	QPSK	20050	1RB#49	22.64	23.94	30	PASS
Band4	20MHz	QPSK	20050	1RB#0	22.92	24.22	30	PASS
Band4	20MHz	QPSK	20050	50RB#25	22.49	23.79	30	PASS
Band4	20MHz	QPSK	20050	50RB#0	22.87	24.17	30	PASS
Band4	20MHz	QPSK	20050	50RB#50	22.03	23.33	30	PASS
Band4	20MHz	QPSK	20050	100RB#0	21.47	22.77	30	PASS
Band4	20MHz	QPSK	20175	1RB#99	22.18	23.48	30	PASS
Band4	20MHz	QPSK	20175	1RB#0	21.91	23.21	30	PASS
Band4	20MHz	QPSK	20175	1RB#49	21.96	23.26	30	PASS
Band4	20MHz	QPSK	20175	50RB#25	22.22	23.52	30	PASS
Band4	20MHz	QPSK	20175	50RB#0	22.20	23.50	30	PASS
Band4	20MHz	QPSK	20175	50RB#50	22.34	23.64	30	PASS
Band4	20MHz	QPSK	20175	100RB#0	20.71	22.01	30	PASS
Band4	20MHz	QPSK	20300	1RB#0	22.12	23.42	30	PASS

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Band4	20MHz	QPSK	20300	1RB#49	23.11	24.41	30	PASS
Band4	20MHz	QPSK	20300	1RB#99	23.70	25.00	30	PASS
Band4	20MHz	QPSK	20300	50RB#0	23.44	24.74	30	PASS
Band4	20MHz	QPSK	20300	50RB#25	24.50	25.80	30	PASS
Band4	20MHz	QPSK	20300	50RB#50	24.27	25.57	30	PASS
Band4	20MHz	QPSK	20300	100RB#0	21.66	22.96	30	PASS
Band4	20MHz	16QAM	20050	1RB#0	22.36	23.66	30	PASS
Band4	20MHz	16QAM	20050	1RB#49	21.85	23.15	30	PASS
Band4	20MHz	16QAM	20050	1RB#99	20.56	21.86	30	PASS
Band4	20MHz	16QAM	20050	50RB#50	21.97	23.27	30	PASS
Band4	20MHz	16QAM	20050	50RB#0	22.06	23.36	30	PASS
Band4	20MHz	16QAM	20050	50RB#25	22.03	23.33	30	PASS
Band4	20MHz	16QAM	20050	100RB#0	22.05	23.35	30	PASS
Band4	20MHz	16QAM	20175	1RB#0	21.20	22.50	30	PASS
Band4	20MHz	16QAM	20175	1RB#49	21.06	22.36	30	PASS
Band4	20MHz	16QAM	20175	1RB#99	21.20	22.50	30	PASS
Band4	20MHz	16QAM	20175	50RB#0	21.35	22.65	30	PASS
Band4	20MHz	16QAM	20175	50RB#50	21.35	22.65	30	PASS
Band4	20MHz	16QAM	20175	50RB#25	21.36	22.66	30	PASS
Band4	20MHz	16QAM	20175	100RB#0	21.22	22.52	30	PASS
Band4	20MHz	16QAM	20300	1RB#0	21.13	22.43	30	PASS
Band4	20MHz	16QAM	20300	1RB#99	23.02	24.32	30	PASS
Band4	20MHz	16QAM	20300	1RB#49	22.48	23.78	30	PASS
Band4	20MHz	16QAM	20300	50RB#0	21.29	22.59	30	PASS
Band4	20MHz	16QAM	20300	50RB#25	21.28	22.58	30	PASS
Band4	20MHz	16QAM	20300	50RB#50	21.29	22.59	30	PASS
Band4	20MHz	16QAM	20300	100RB#0	21.37	22.67	30	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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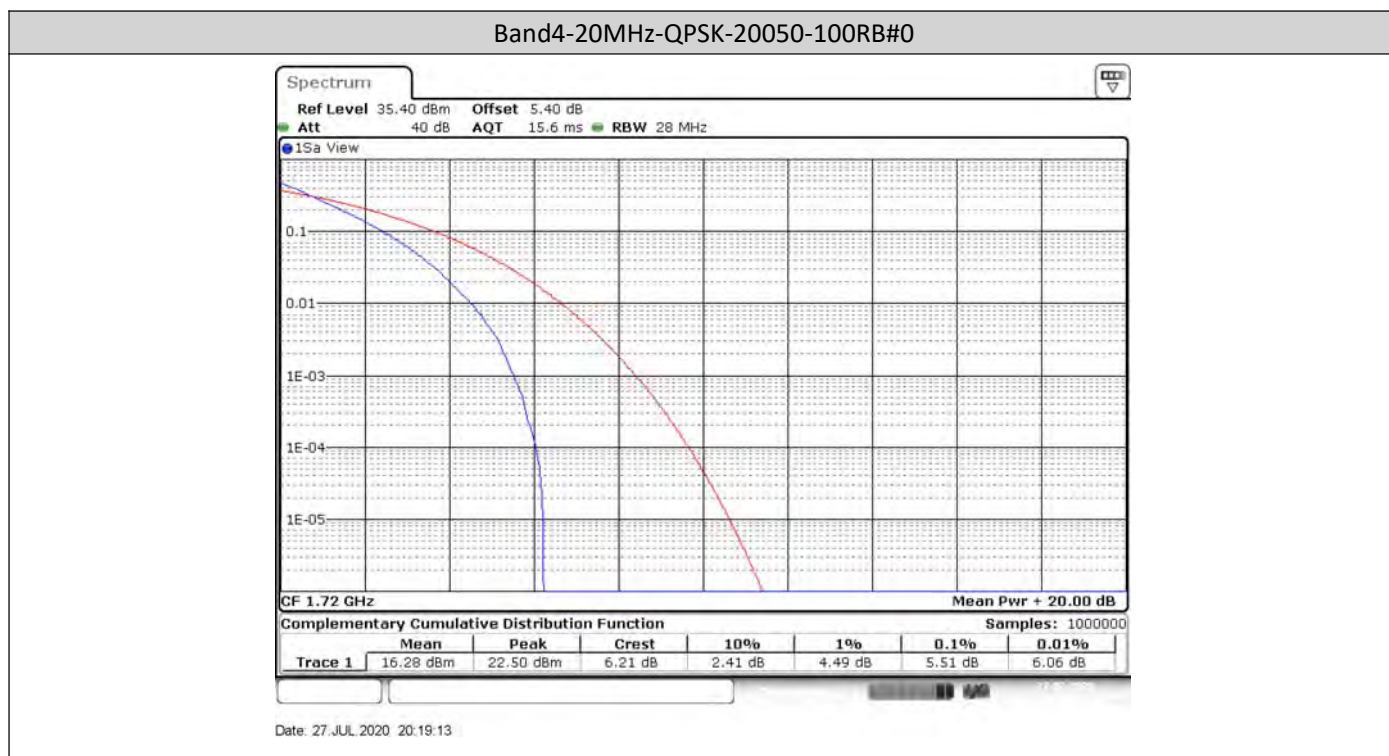


2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band4	20MHz	QPSK	20050	100RB#0	5.51	13	PASS
Band4	20MHz	QPSK	20175	100RB#0	5.16	13	PASS
Band4	20MHz	QPSK	20300	100RB#0	5.07	13	PASS
Band4	20MHz	16QAM	20050	32RB#0	5.33	13	PASS
Band4	20MHz	16QAM	20175	32RB#0	6.03	13	PASS
Band4	20MHz	16QAM	20300	32RB#0	5.97	13	PASS

2.2. Test Plots



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



Date: 27.JUL.2020 20:19:36

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



Date: 27.JUL.2020 20:19:58



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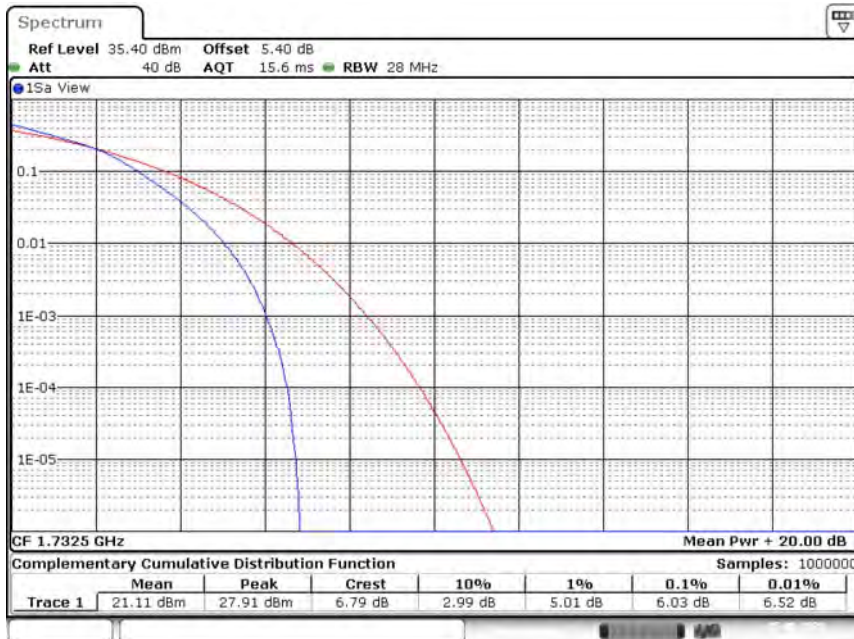


Band4-20MHz-16QAM-20050-32RB#0



Date: 5.AUG.2020 09:00:45

Band4-20MHz-16QAM-20175-32RB#0



Date: 5.AUG.2020 09:01:08



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Band4-20MHz-16QAM-20300-32RB#0



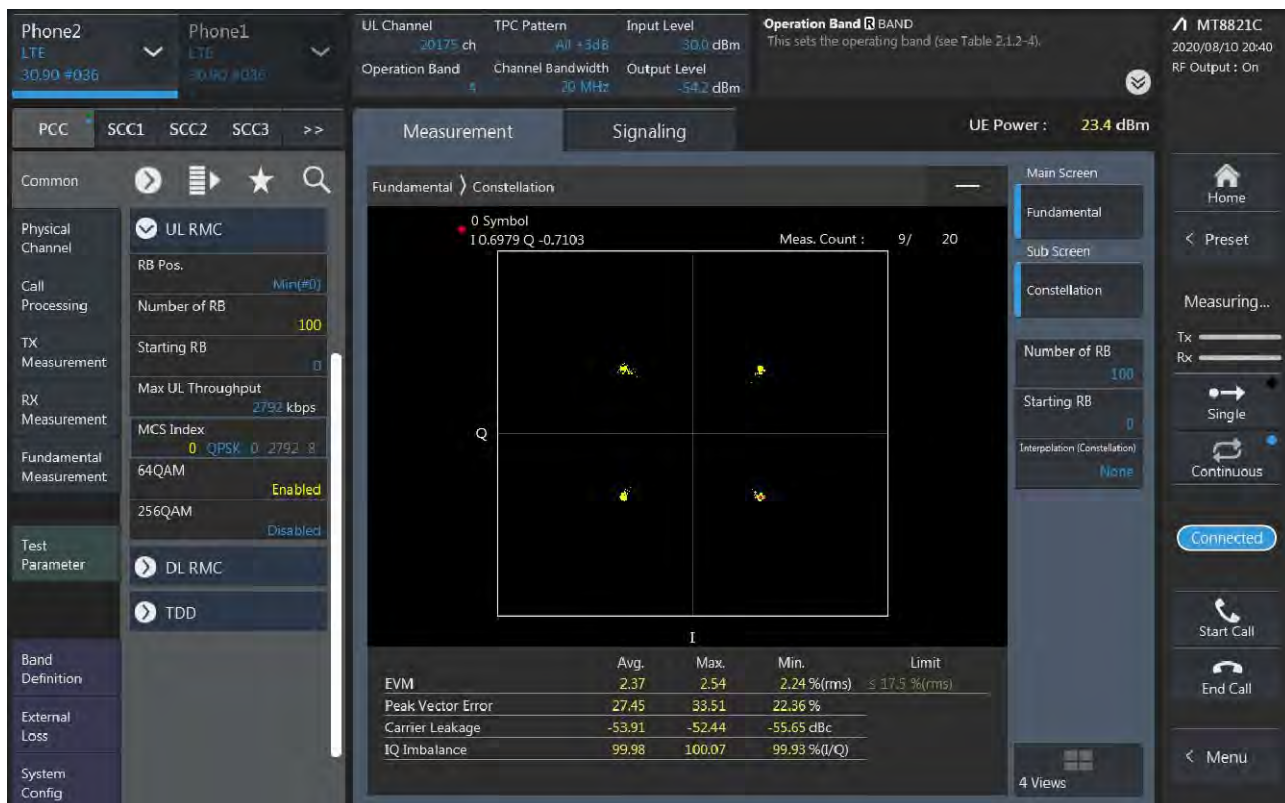
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3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 20MHz

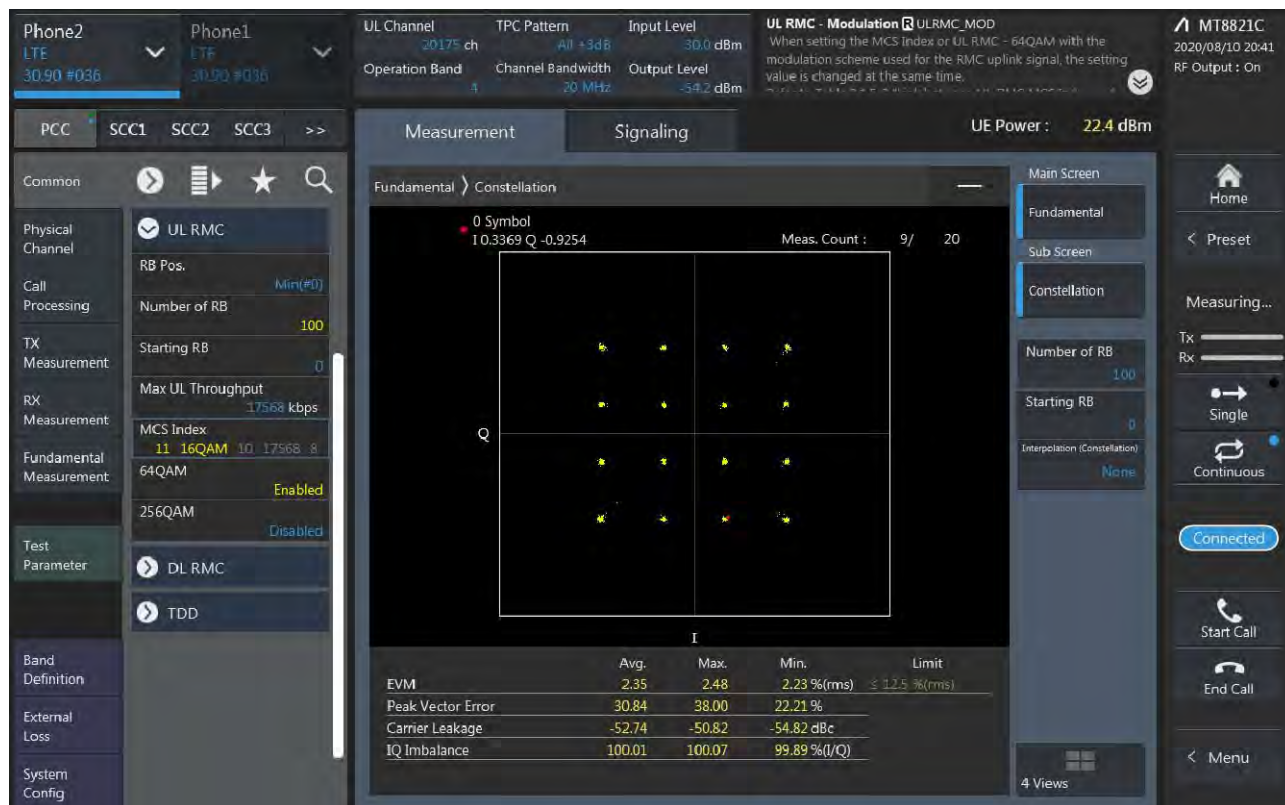
3.1.1. Test Channel = MCH





3.2. Test Mode = LTE /TM2 20MHz

3.2.1. Test Channel = MCH





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	1.091	1.410	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	1.091	1.422	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	1.091	1.404	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	1.094	1.485	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	1.103	1.461	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	1.097	1.470	PASS
Band4	3MHz	QPSK	19965	15RB#0	2.685	3.204	PASS
Band4	3MHz	QPSK	20175	15RB#0	2.691	3.210	PASS
Band4	3MHz	QPSK	20385	15RB#0	2.685	3.198	PASS
Band4	3MHz	16QAM	19965	15RB#0	2.685	3.198	PASS
Band4	3MHz	16QAM	20175	15RB#0	2.679	3.186	PASS
Band4	3MHz	16QAM	20385	15RB#0	2.685	3.180	PASS
Band4	5MHz	QPSK	19975	25RB#0	4.446	4.980	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.456	5.010	PASS
Band4	5MHz	QPSK	20375	25RB#0	4.456	5.010	PASS
Band4	5MHz	16QAM	19975	25RB#0	4.446	4.980	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.446	5.010	PASS
Band4	5MHz	16QAM	20375	25RB#0	4.446	5.000	PASS
Band4	10MHz	QPSK	20000	50RB#0	8.891	9.520	PASS
Band4	10MHz	QPSK	20175	50RB#0	8.891	9.540	PASS
Band4	10MHz	QPSK	20350	50RB#0	8.911	9.540	PASS
Band4	10MHz	16QAM	20000	32RB#0	5.794	7.640	PASS
Band4	10MHz	16QAM	20175	32RB#0	5.814	7.920	PASS
Band4	10MHz	16QAM	20350	32RB#0	5.794	7.860	PASS
Band4	15MHz	QPSK	20025	75RB#0	13.516	16.770	PASS
Band4	15MHz	QPSK	20175	75RB#0	13.546	16.740	PASS
Band4	15MHz	QPSK	20325	75RB#0	13.516	16.320	PASS
Band4	15MHz	16QAM	20025	32RB#0	6.893	13.590	PASS
Band4	15MHz	16QAM	20175	32RB#0	6.983	12.270	PASS
Band4	15MHz	16QAM	20325	32RB#0	6.833	11.220	PASS



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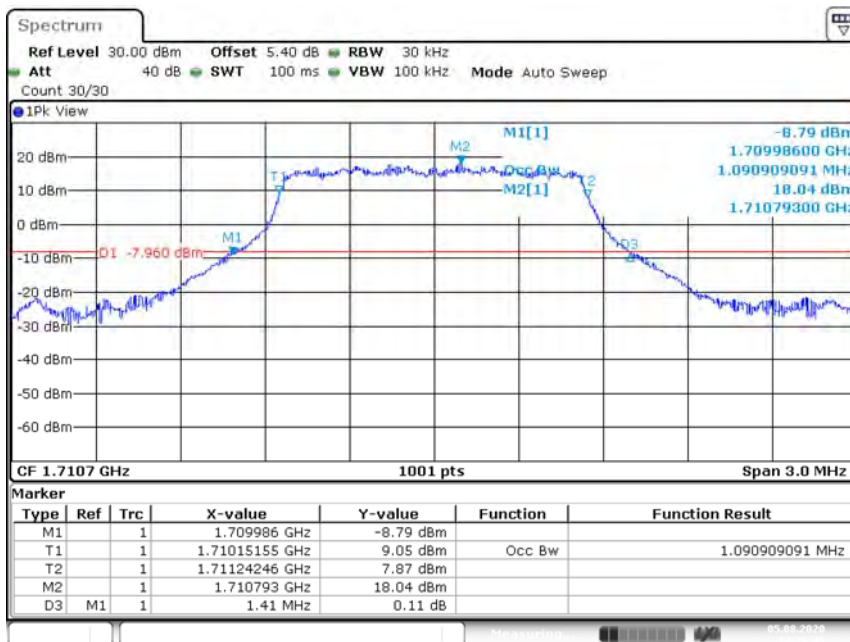
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Band4	20MHz	QPSK	20050	100RB#0	17.942	21.400	PASS
Band4	20MHz	QPSK	20175	100RB#0	17.942	21.320	PASS
Band4	20MHz	QPSK	20300	100RB#0	17.942	21.160	PASS
Band4	20MHz	16QAM	20050	32RB#0	7.512	14.240	PASS
Band4	20MHz	16QAM	20175	32RB#0	8.072	18.280	PASS
Band4	20MHz	16QAM	20300	32RB#0	7.552	11.680	PASS

4.2. Test Plots

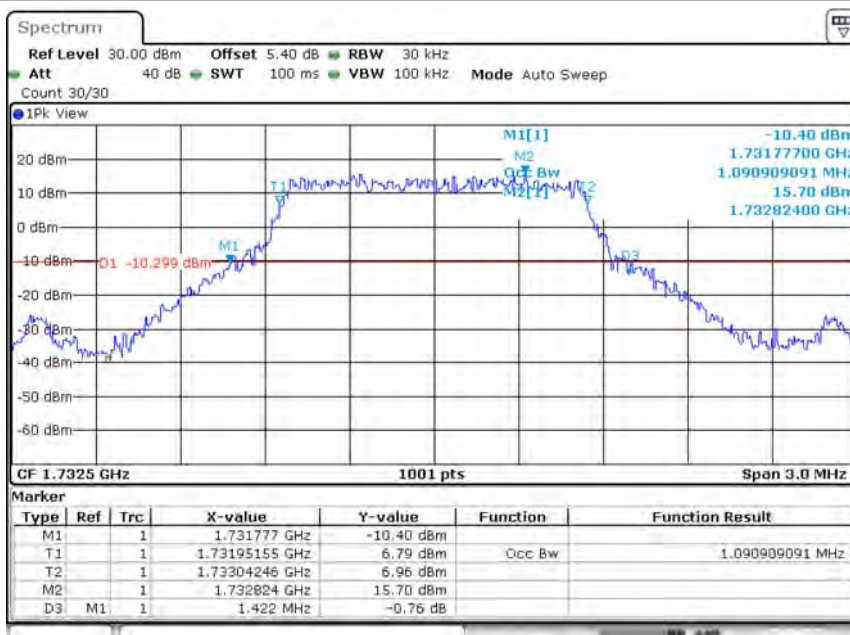
Band4-1.4MHz-QPSK-19957-6RB#0-1.091



Date: 5.AUG.2020 14:26:46

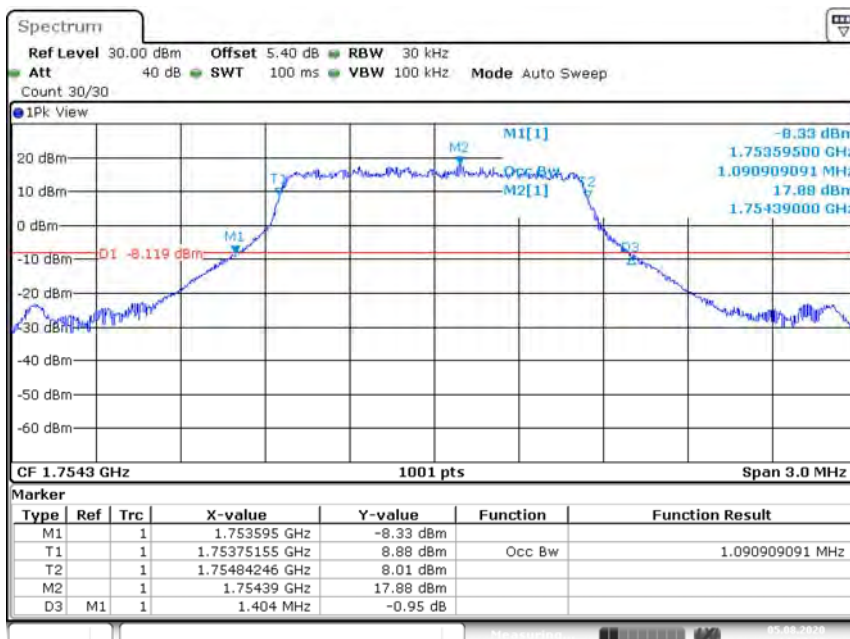


Band4-1.4MHz-QPSK-20175-6RB#0-1.091



Date: 5.AUG.2020 14:26:59

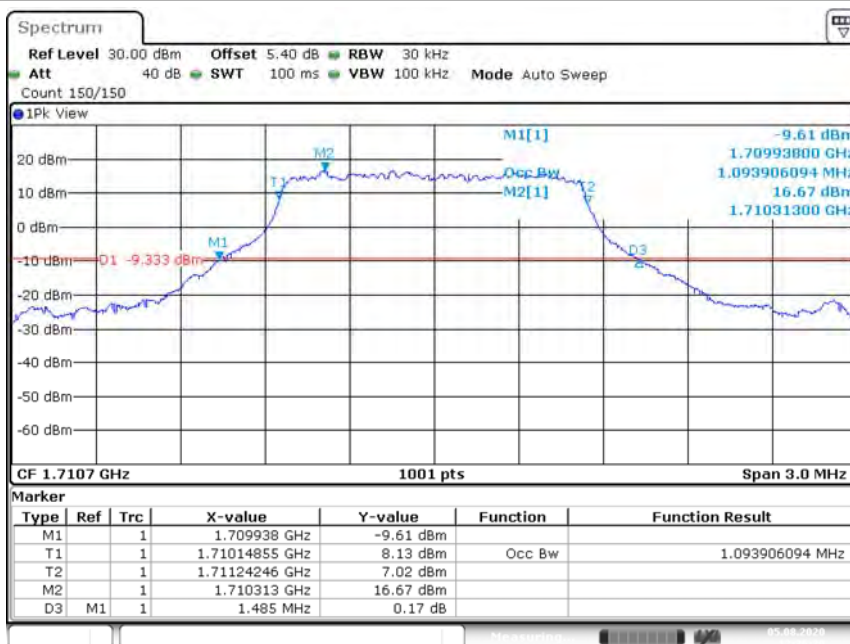
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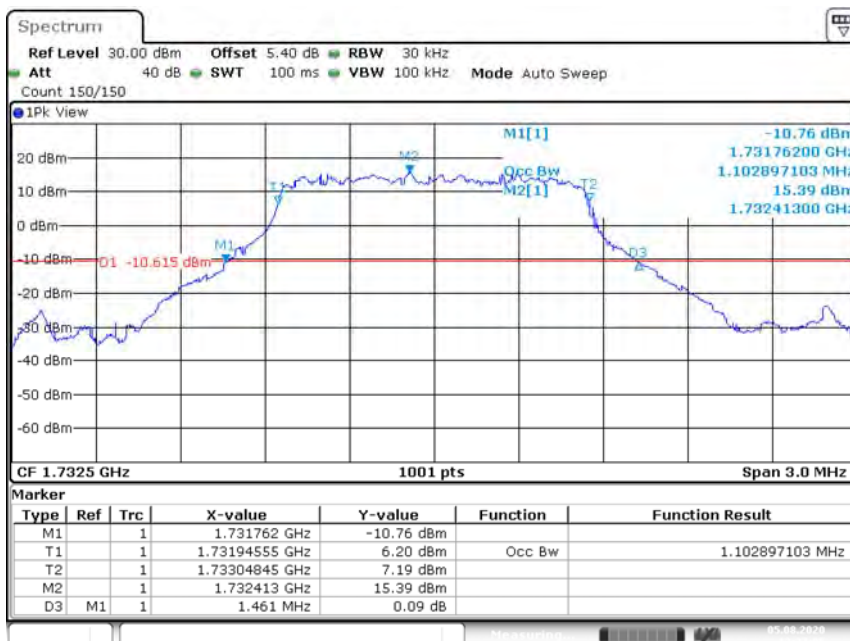


Band4-1.4MHz-16QAM-19957-6RB#0-1.094



Date: 5.AUG.2020 12:36:39

Band4-1.4MHz-16QAM-20175-6RB#0-1.103



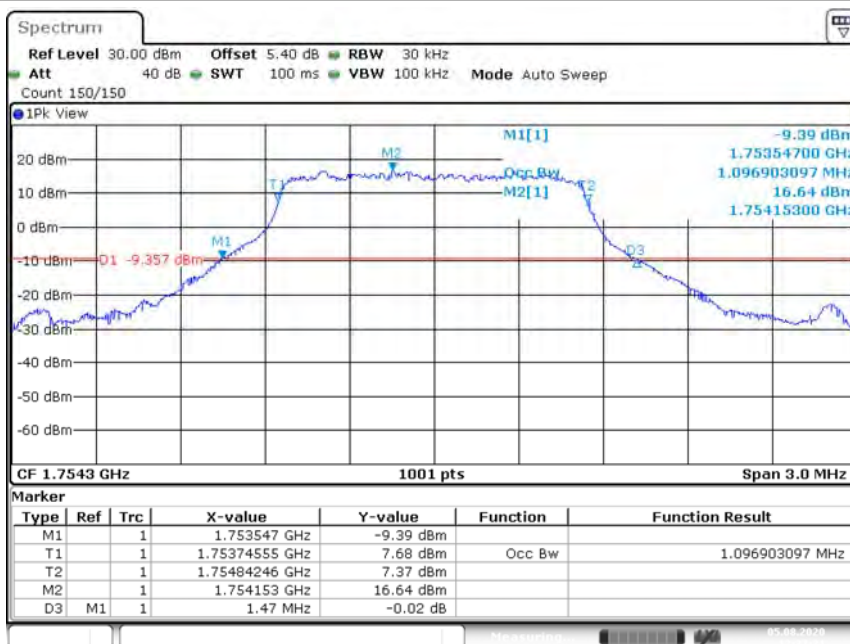
Date: 5.AUG.2020 12:37:05



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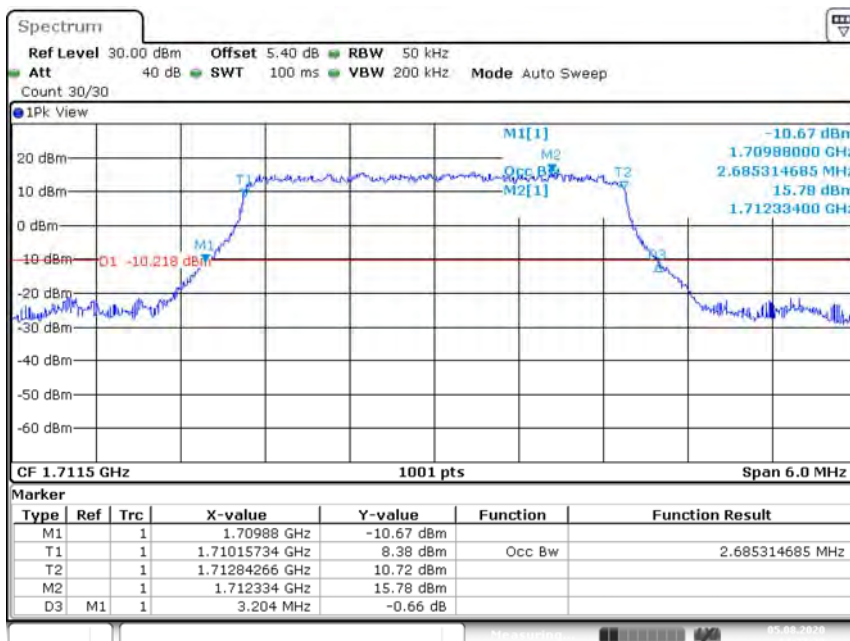
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Band4-1.4MHz-16QAM-20393-6RB#0-1.097



Date: 5.AUG.2020 12:37:32

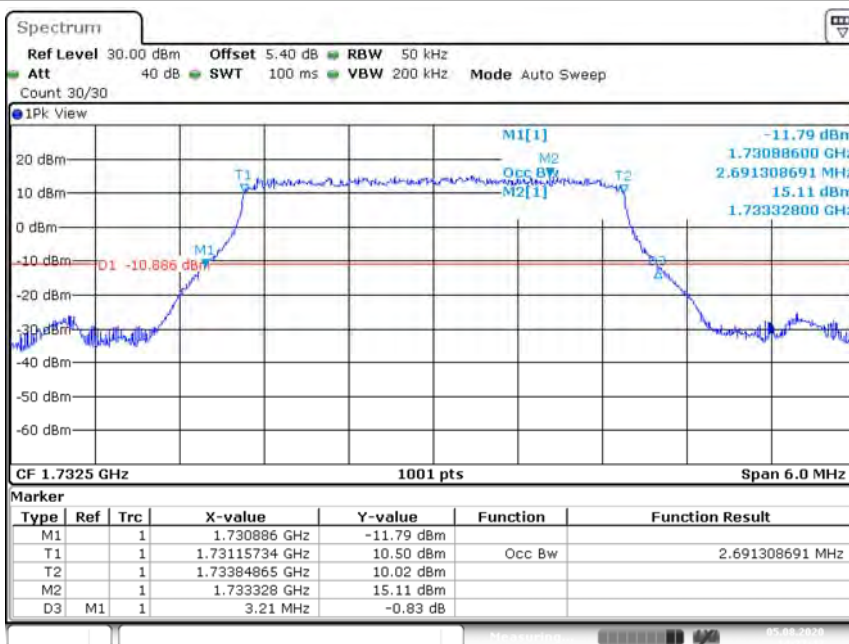
Band4-3MHz-QPSK-19965-15RB#0-2.685



Date: 5.AUG.2020 14:27:30

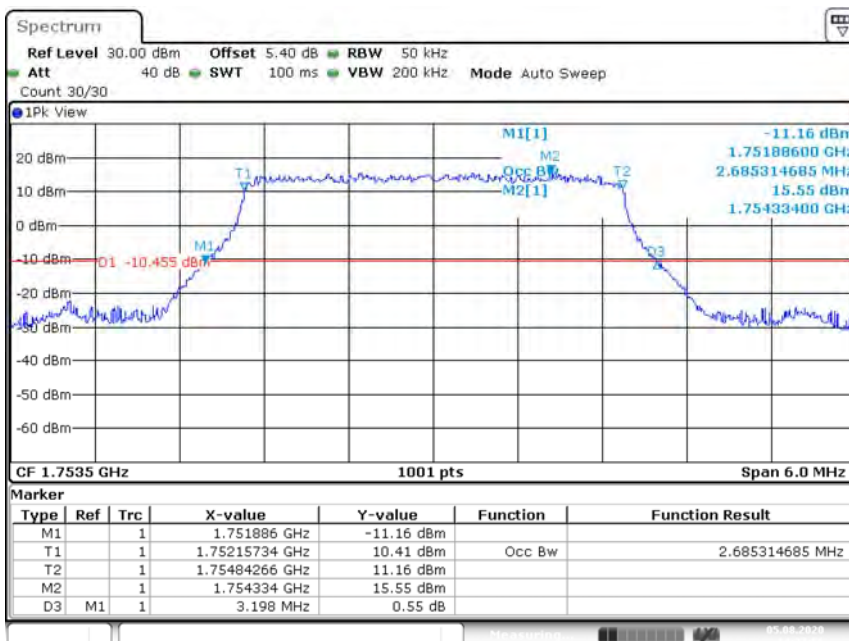


Band4-3MHz-QPSK-20175-15RB#0-2.691



Date: 5.AUG.2020 14:27:43

Band4-3MHz-QPSK-20385-15RB#0-2.685



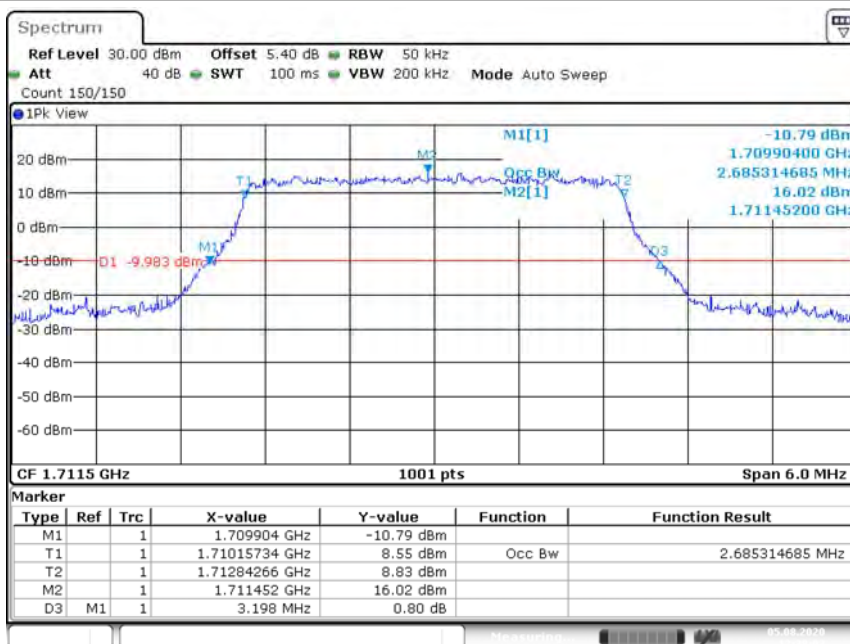
Date: 5.AUG.2020 14:27:56



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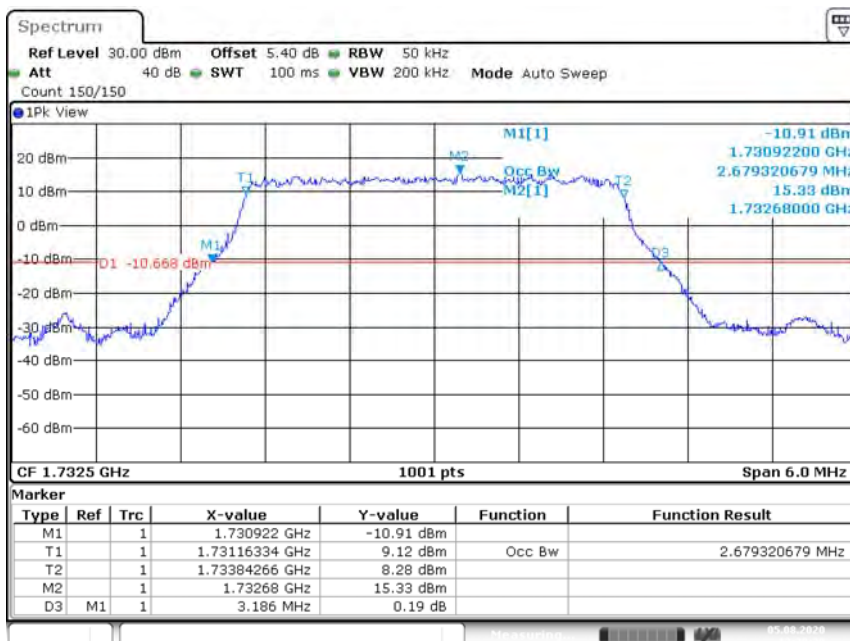
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Band4-3MHz-16QAM-19965-15RB#0-2.685



Date: 5.AUG.2020 12:38:03

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



Date: 5.AUG.2020 12:38:29



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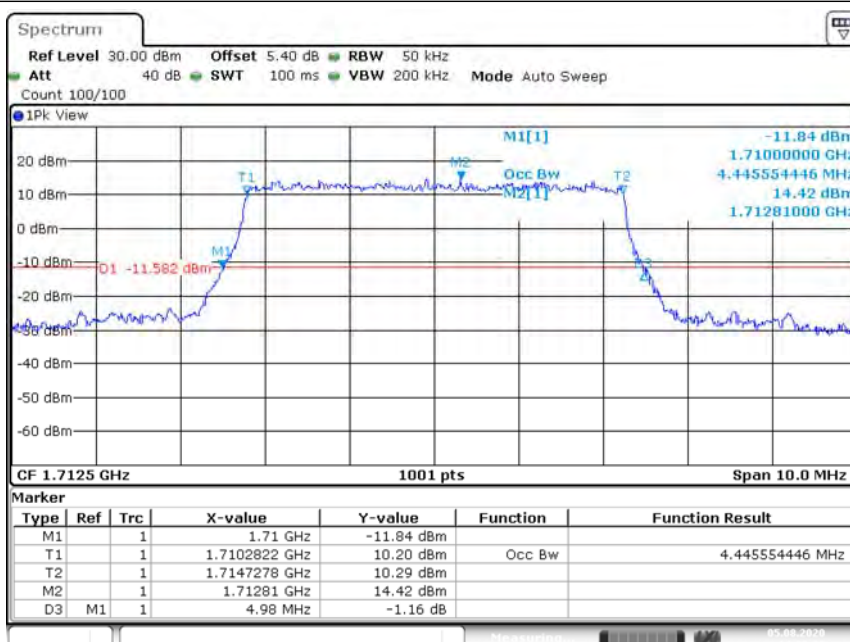
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Band4-3MHz-16QAM-20385-15RB#0-2.685



Date: 5.AUG.2020 12:38:56

Band4-5MHz-QPSK-19975-25RB#0-4.446



Date: 5.AUG.2020 14:28:21



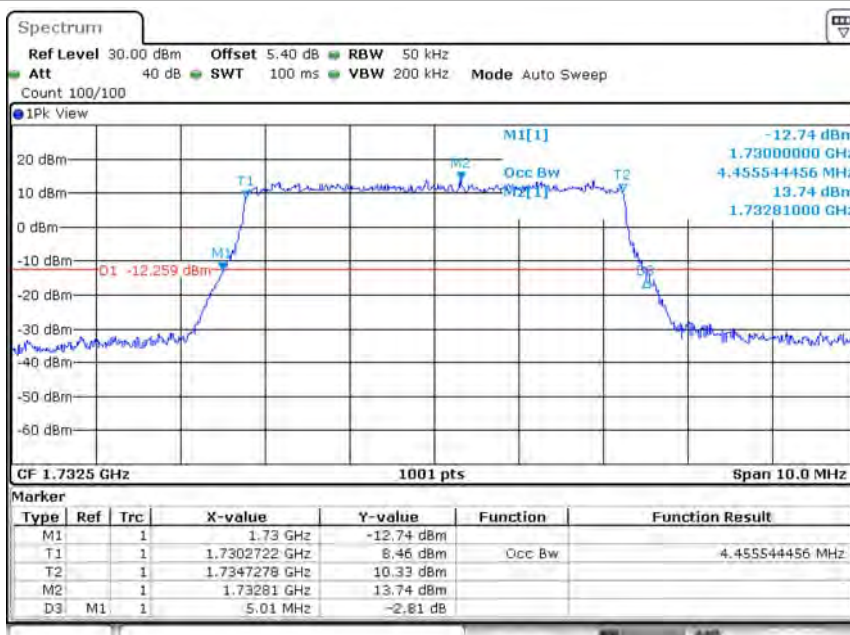
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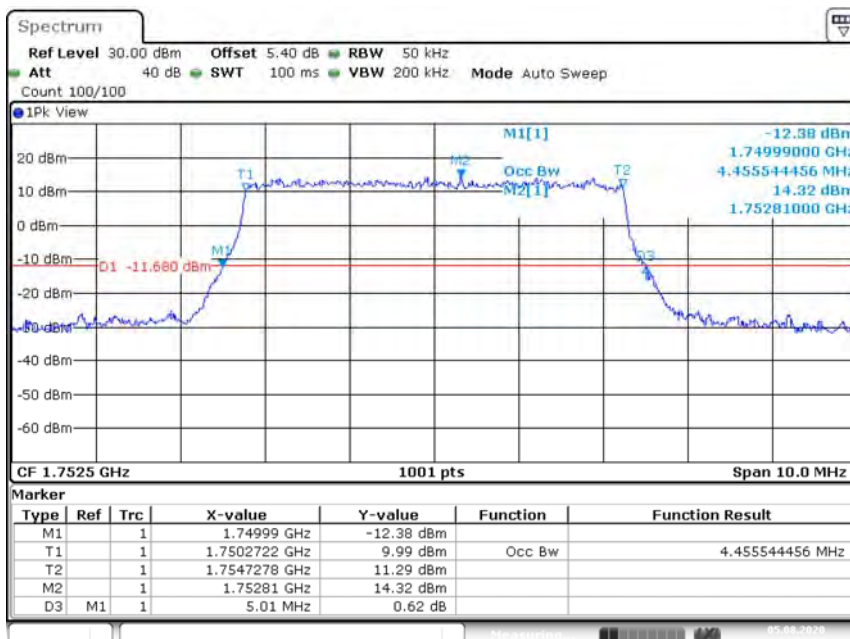
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Band4-5MHz-QPSK-20175-25RB#0-4.456



Date: 5.AUG.2020 14:28:41

Band4-5MHz-QPSK-20375-25RB#0-4.456



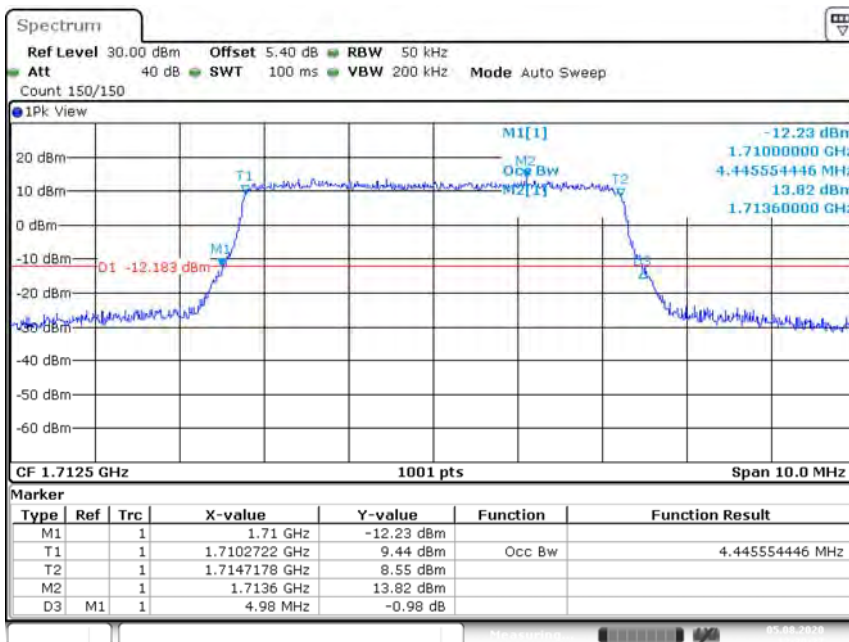
Date: 5.AUG.2020 14:29:01



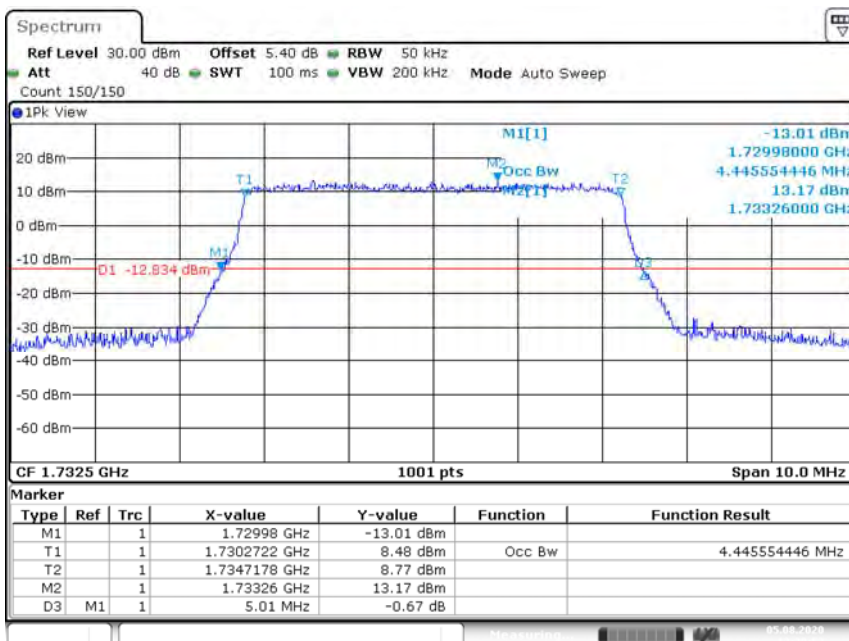
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Band4-5MHz-16QAM-19975-25RB#0-4.446



Band4-5MHz-16QAM-20175-25RB#0-4.446

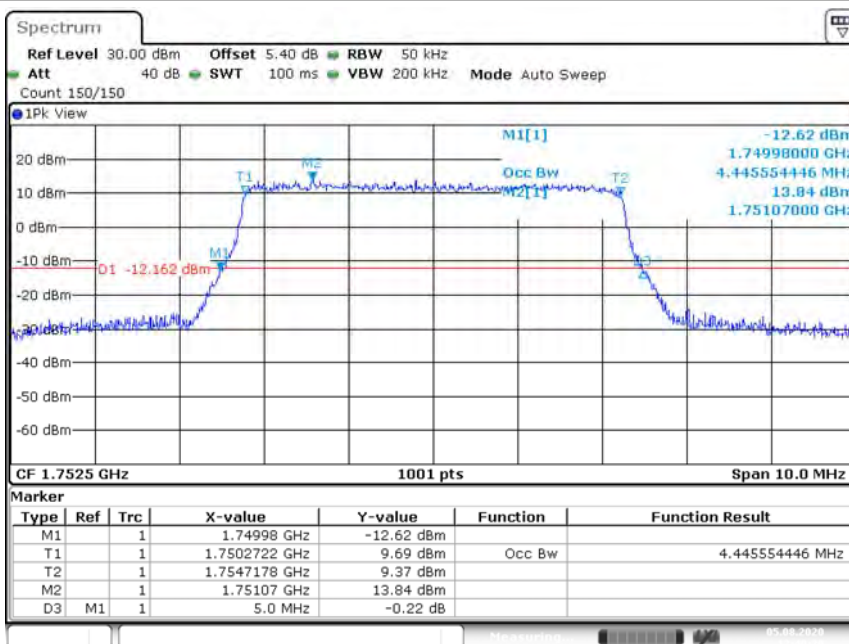


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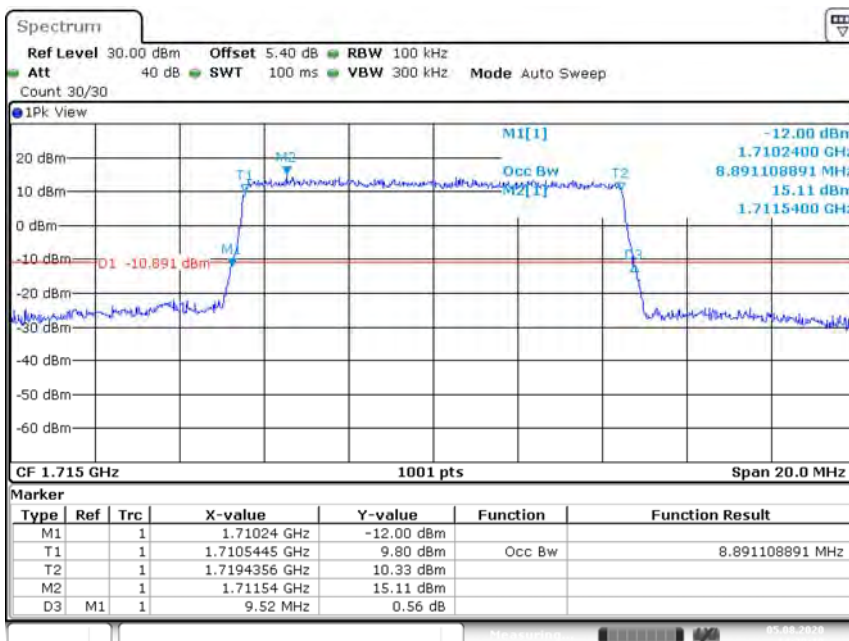
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Band4-5MHz-16QAM-20375-25RB#0-4.446



Date: 5.AUG.2020 12:40:20

Band4-10MHz-QPSK-20000-50RB#0-8.891

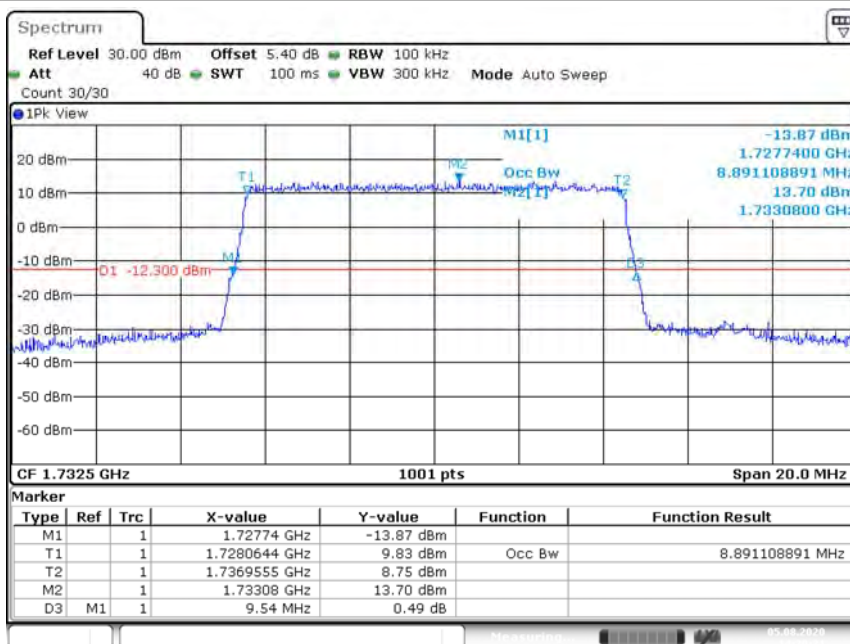


Date: 5.AUG.2020 14:29:19

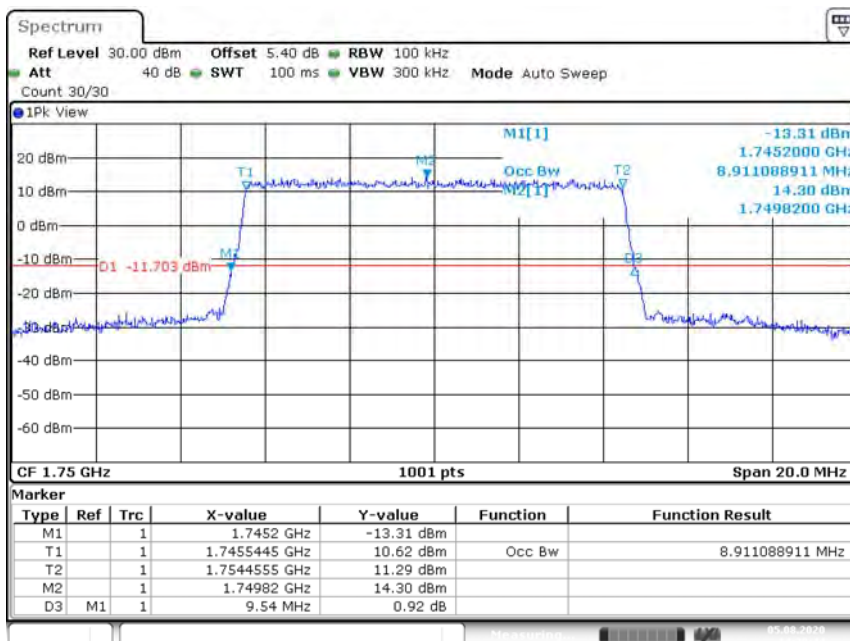




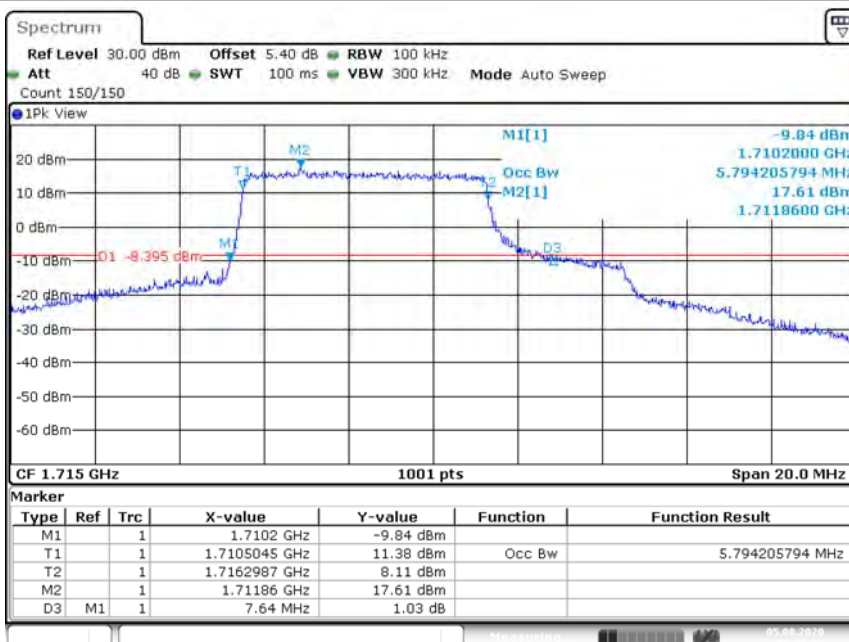
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Band4-10MHz-QPSK-20350-50RB#0-8.911

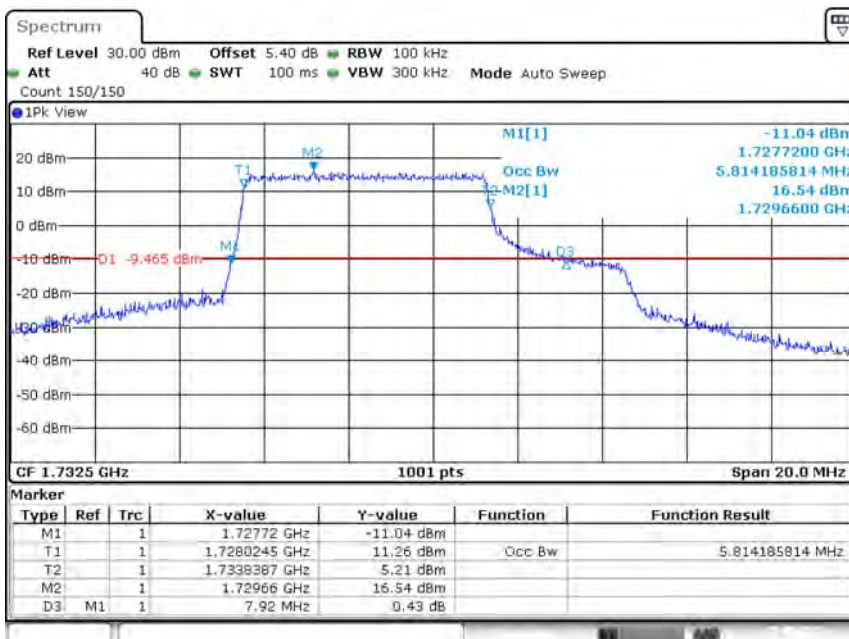


Band4-10MHz-16QAM-20000-32RB#0-5.794



Date: 5.AUG.2020 09:26:03

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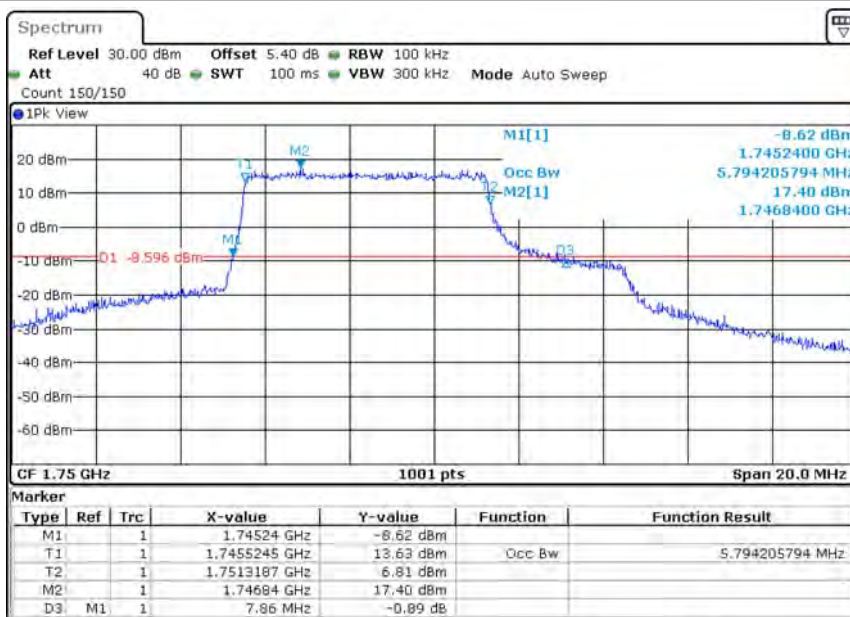
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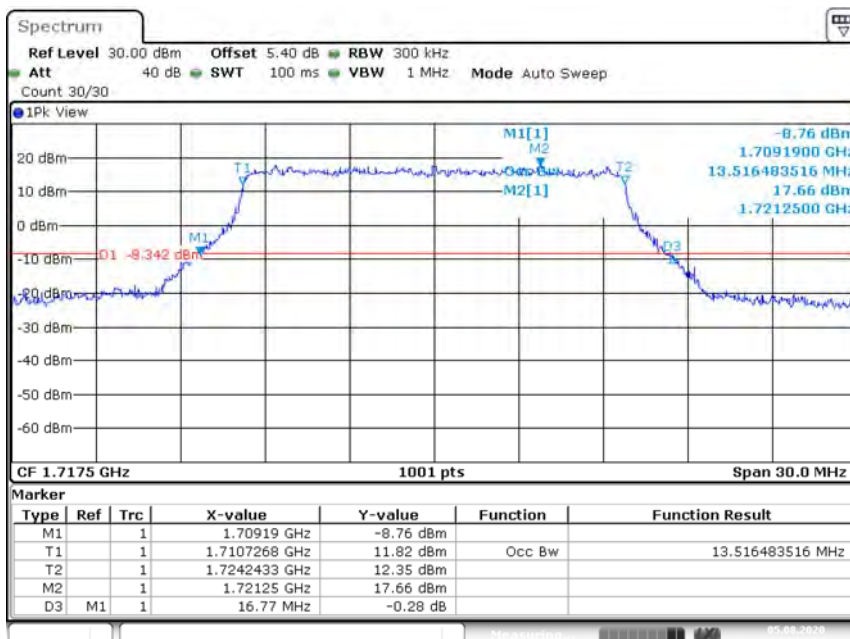
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Band4-10MHz-16QAM-20350-32RB#0-5.794



Date: 5.AUG.2020 09:26:56

Band4-15MHz-QPSK-20025-75RB#0-13.516



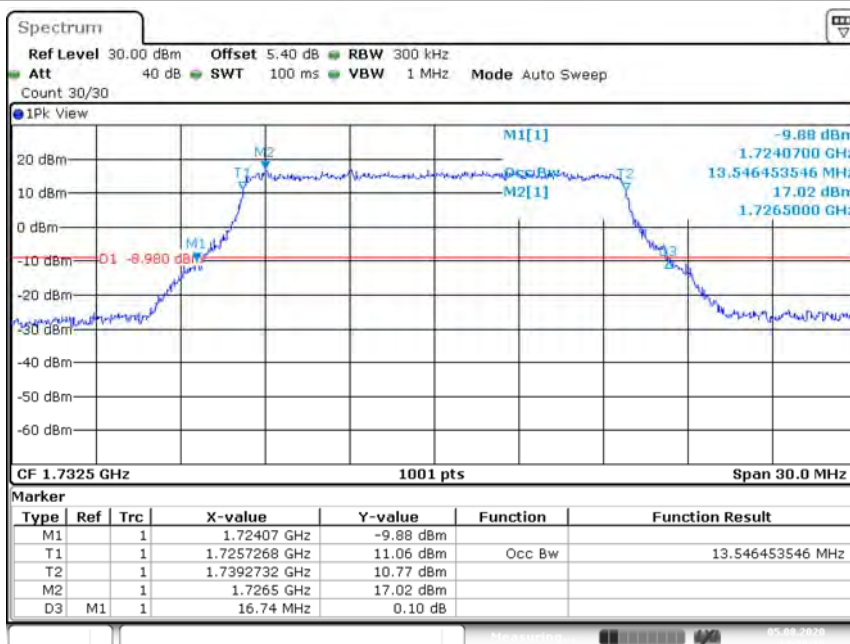
Date: 5.AUG.2020 14:30:02



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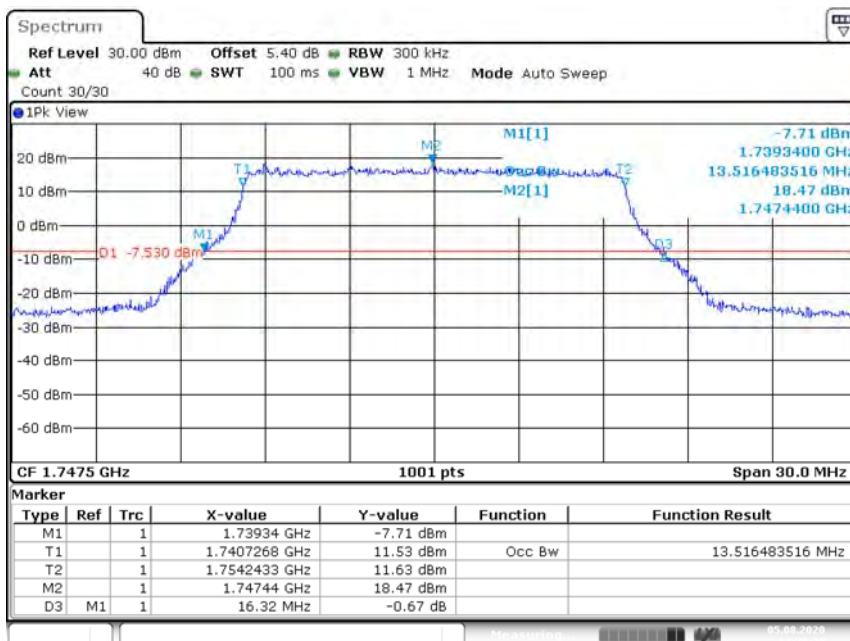
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Band4-15MHz-QPSK-20175-75RB#0-13.546



Date: 5.AUG.2020 14:30:15

Band4-15MHz-QPSK-20325-75RB#0-13.516



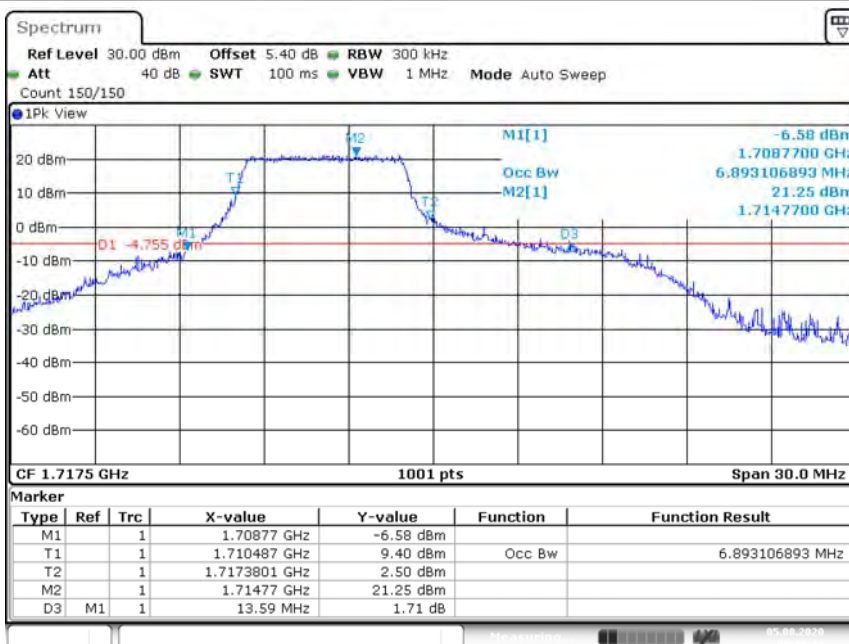
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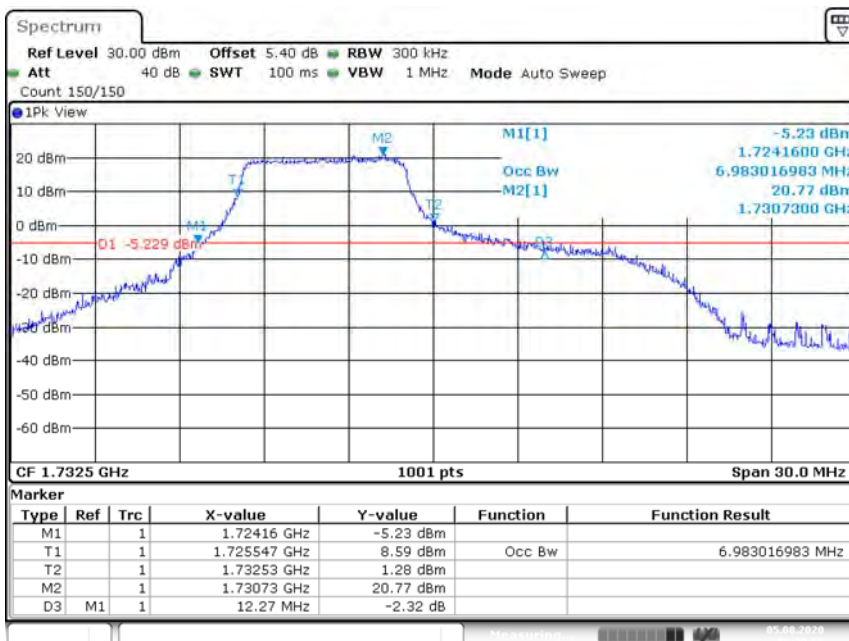
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Band4-15MHz-16QAM-20025-32RB#0-6.893



Date: 5.AUG.2020 09:28:32

Band4-15MHz-16QAM-20175-32RB#0-6.983



Date: 5.AUG.2020 09:28:58



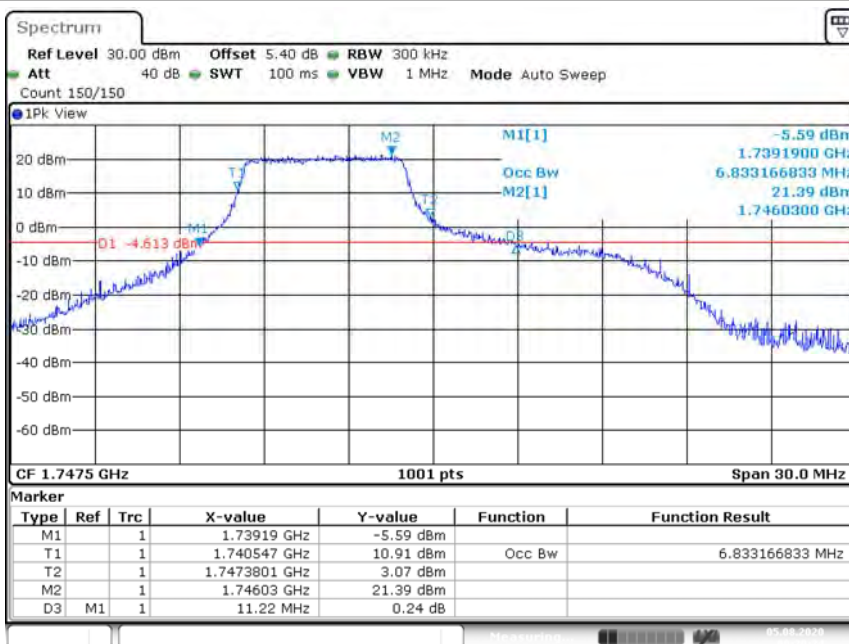
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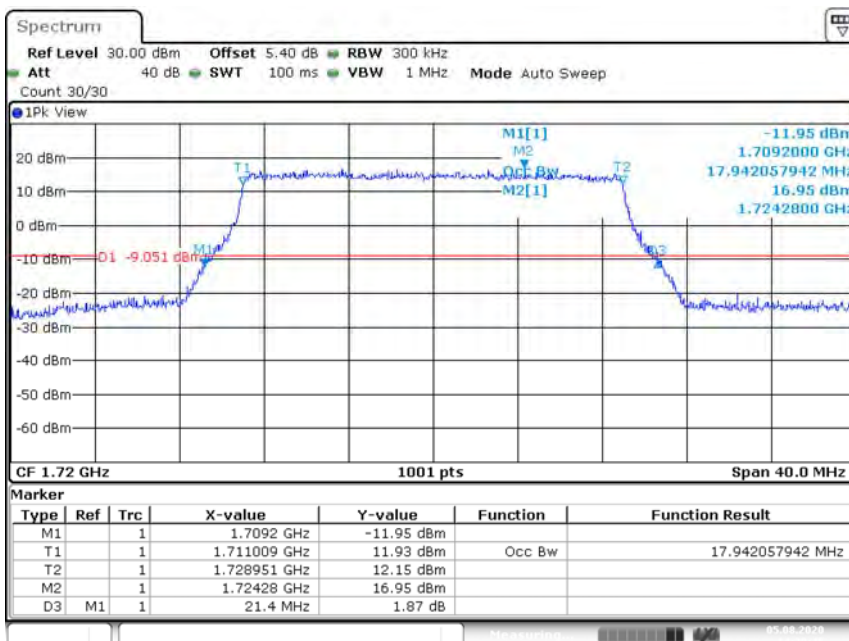


Band4-15MHz-16QAM-20325-32RB#0-6.833



Date: 5.AUG.2020 09:29:25

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Date: 5.AUG.2020 14:30:46

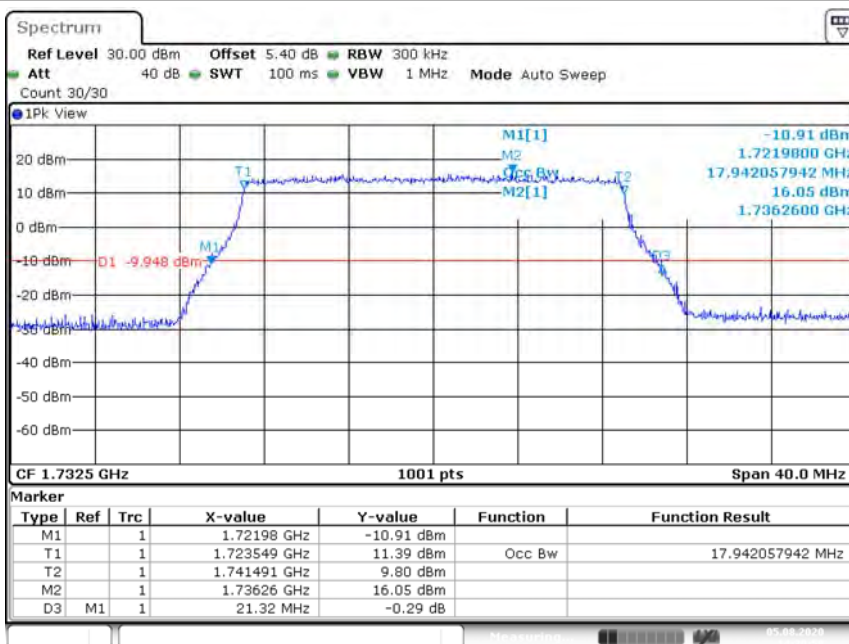


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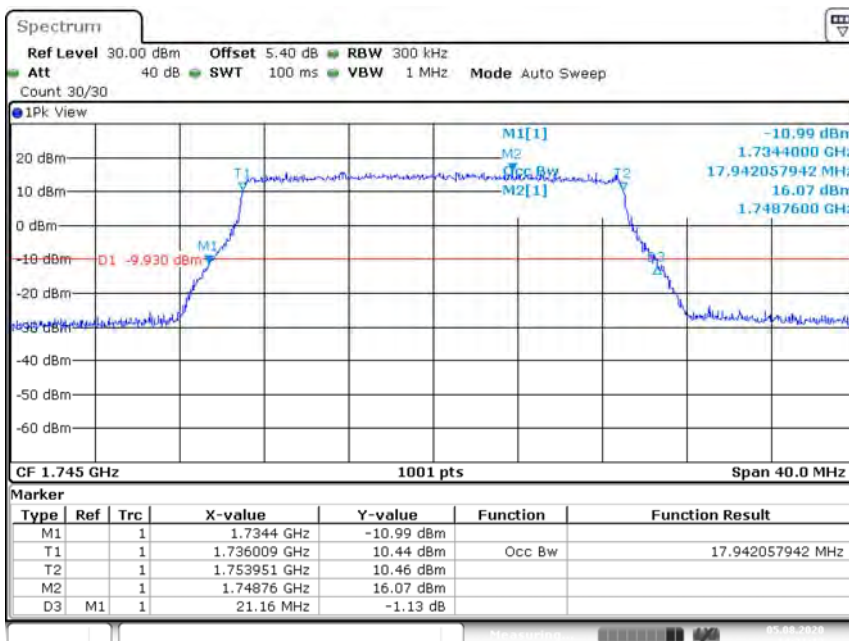
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Band4-20MHz-QPSK-20175-100RB#0-17.942



Date: 5.AUG.2020 14:30:59

Band4-20MHz-QPSK-20300-100RB#0-17.942



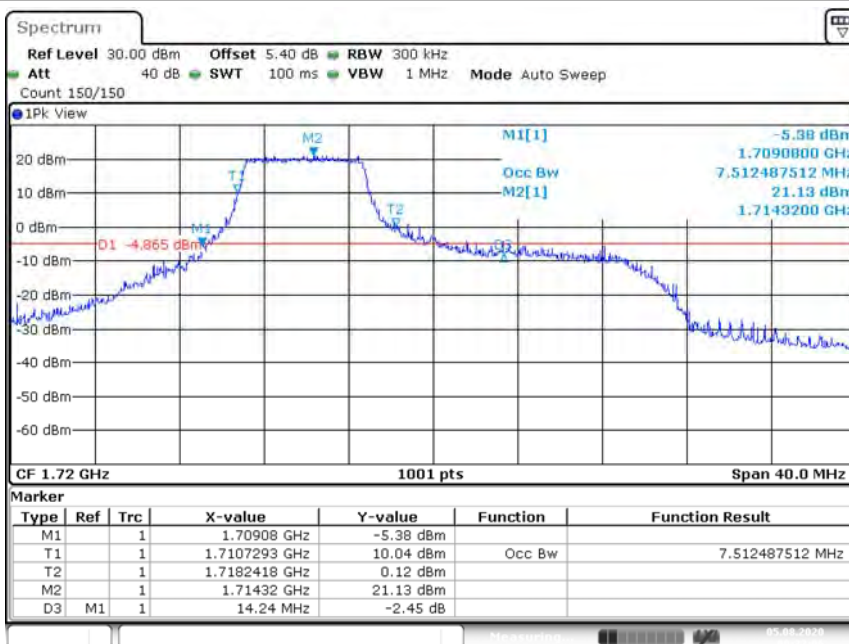
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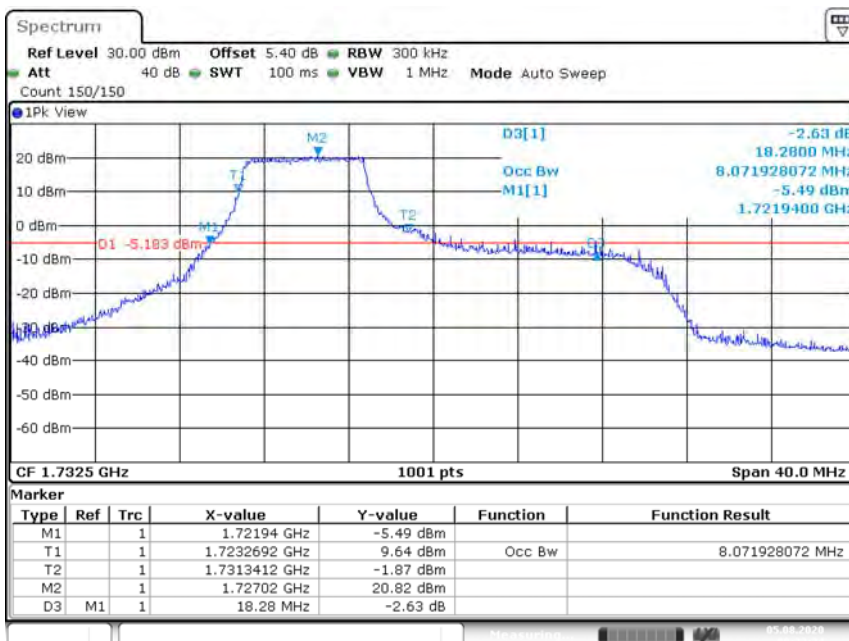
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Band4-20MHz-16QAM-20050-32RB#0-7.512



Date: 5.AUG.2020 09:32:06

Band4-20MHz-16QAM-20175-32RB#0-8.072



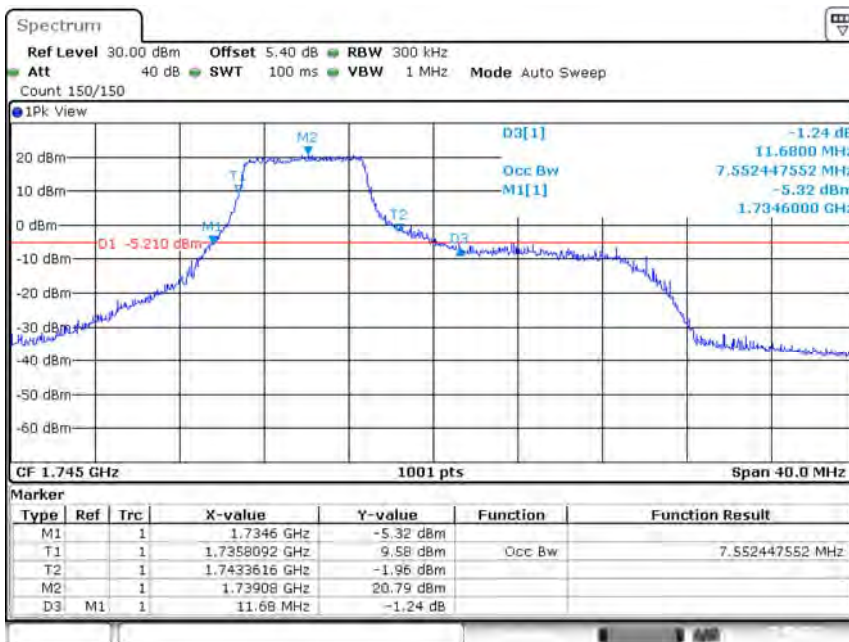
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Band4-20MHz-16QAM-20300-32RB#0-7.552



Date: 5.AUG.2020 09:34:01





5. Band Edge Compliance

5.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band4	1.4MHz	QPSK	19957	1RB#0	-16.75	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	-22.99	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	-16.29	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	-24.29	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	-14.66	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	-19.82	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	-13.19	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	-20.76	PASS
Band4	3MHz	QPSK	19965	1RB#0	-15.67	PASS
Band4	3MHz	QPSK	19965	15RB#0	-26.55	PASS
Band4	3MHz	QPSK	20385	1RB#14	-16.34	PASS
Band4	3MHz	QPSK	20385	15RB#0	-26.87	PASS
Band4	3MHz	16QAM	19965	1RB#0	-15.59	PASS
Band4	3MHz	16QAM	19965	15RB#0	-24.73	PASS
Band4	3MHz	16QAM	20385	1RB#14	-13.01	PASS
Band4	3MHz	16QAM	20385	15RB#0	-24.05	PASS
Band4	5MHz	QPSK	19975	1RB#0	-15.60	PASS
Band4	5MHz	QPSK	19975	25RB#0	-27.36	PASS
Band4	5MHz	QPSK	20375	1RB#24	-15.00	PASS
Band4	5MHz	QPSK	20375	25RB#0	-27.76	PASS
Band4	5MHz	16QAM	19975	1RB#0	-16.63	PASS
Band4	5MHz	16QAM	19975	25RB#0	-28.30	PASS
Band4	5MHz	16QAM	20375	1RB#24	-15.32	PASS
Band4	5MHz	16QAM	20375	25RB#0	-28.70	PASS
Band4	10MHz	QPSK	20000	1RB#0	-29.26	PASS
Band4	10MHz	QPSK	20000	50RB#0	-34.93	PASS
Band4	10MHz	QPSK	20350	1RB#49	-28.09	PASS
Band4	10MHz	QPSK	20350	50RB#0	-36.40	PASS
Band4	10MHz	16QAM	20000	1RB#0	-28.82	PASS
Band4	10MHz	16QAM	20000	32RB#0	-28.89	PASS
Band4	10MHz	16QAM	20000	50RB#0	-42.11	PASS



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Band4	10MHz	16QAM	20350	1RB#49	-28.36	PASS
Band4	10MHz	16QAM	20350	32RB#18	-32.71	PASS
Band4	10MHz	16QAM	20350	50RB#0	-37.52	PASS
Band4	15MHz	QPSK	20025	1RB#0	-24.76	PASS
Band4	15MHz	QPSK	20025	75RB#0	-29.53	PASS
Band4	15MHz	QPSK	20325	1RB#74	-24.10	PASS
Band4	15MHz	QPSK	20325	75RB#0	-26.68	PASS
Band4	15MHz	16QAM	20025	1RB#0	-14.79	PASS
Band4	15MHz	16QAM	20025	32RB#0	-20.67	PASS
Band4	15MHz	16QAM	20025	75RB#0	-24.39	PASS
Band4	15MHz	16QAM	20325	1RB#74	-22.92	PASS
Band4	15MHz	16QAM	20325	32RB#43	-23.14	PASS
Band4	15MHz	16QAM	20325	75RB#0	-24.06	PASS
Band4	20MHz	QPSK	20050	1RB#0	-14.65	PASS
Band4	20MHz	QPSK	20050	100RB#0	-25.81	PASS
Band4	20MHz	QPSK	20300	1RB#99	-26.46	PASS
Band4	20MHz	QPSK	20300	100RB#0	-33.05	PASS
Band4	20MHz	16QAM	20050	1RB#0	-14.75	PASS
Band4	20MHz	16QAM	20050	32RB#0	-21.10	PASS
Band4	20MHz	16QAM	20050	100RB#0	-25.73	PASS
Band4	20MHz	16QAM	20300	1RB#99	-13.89	PASS
Band4	20MHz	16QAM	20300	32RB#68	-23.68	PASS
Band4	20MHz	16QAM	20300	100RB#0	-24.61	PASS



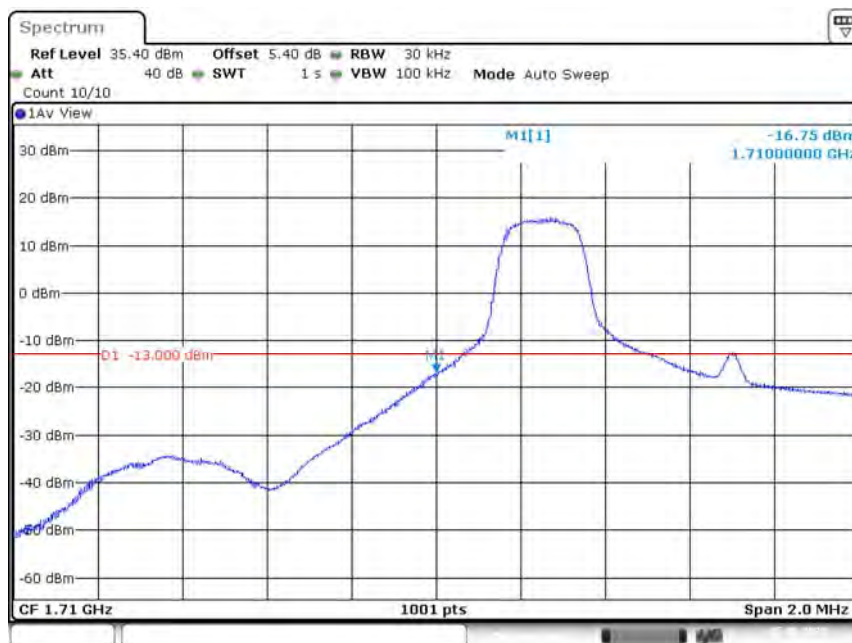
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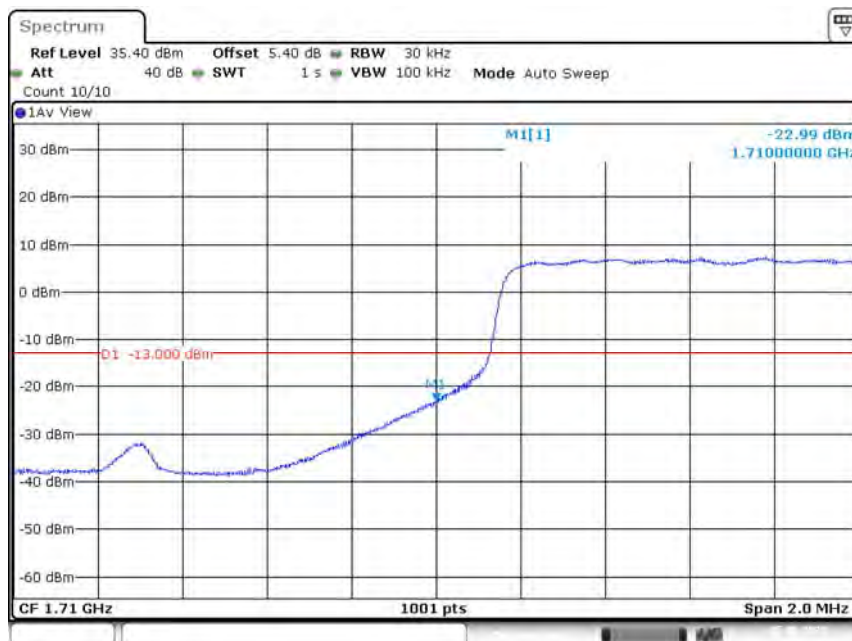
5.2. Test Plots

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



Date: 5.AUG.2020 14:32:10

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



Date: 5.AUG.2020 14:32:31



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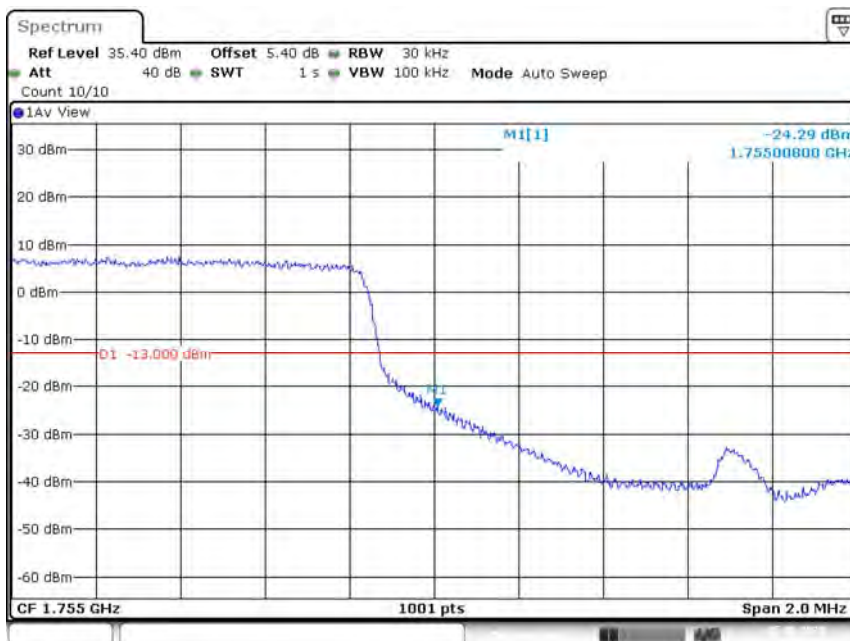


Band4-1.4MHz-QPSK-20393-1RB#5



Date: 5.AUG.2020 14:33:03

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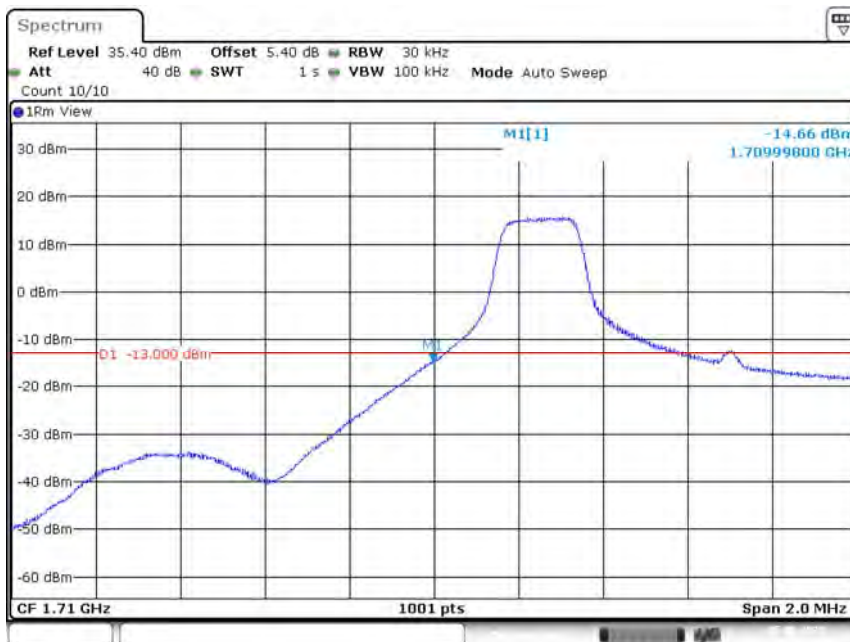


Date: 5.AUG.2020 14:33:23





Band4-1.4MHz-16QAM-19957-1RB#0



Date: 5.AUG.2020 12:40:46

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



Date: 5.AUG.2020 12:41:06

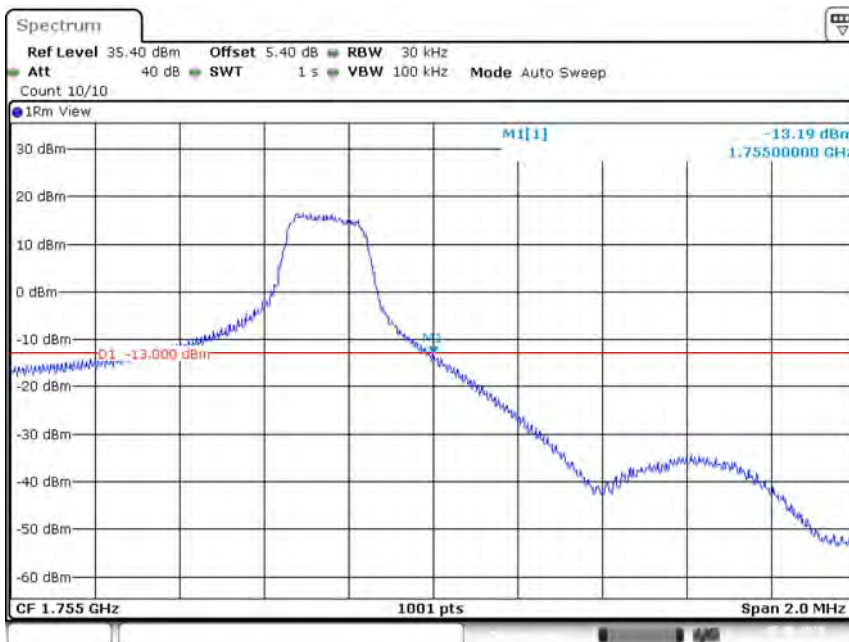


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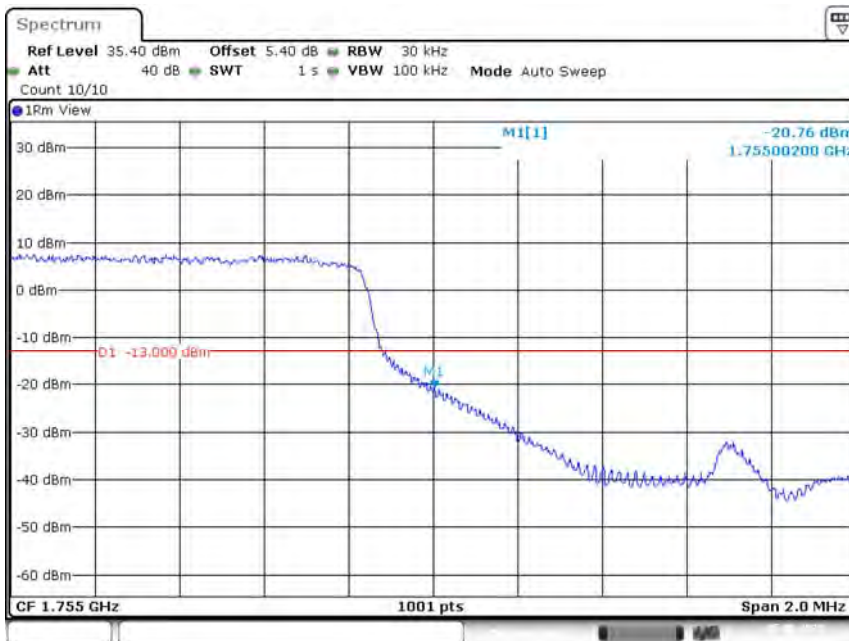


Band4-1.4MHz-16QAM-20393-1RB#5



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



Date: 5.AUG.2020 12:41:52



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



Date: 5.AUG.2020 14:33:53

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



Date: 5.AUG.2020 14:34:14



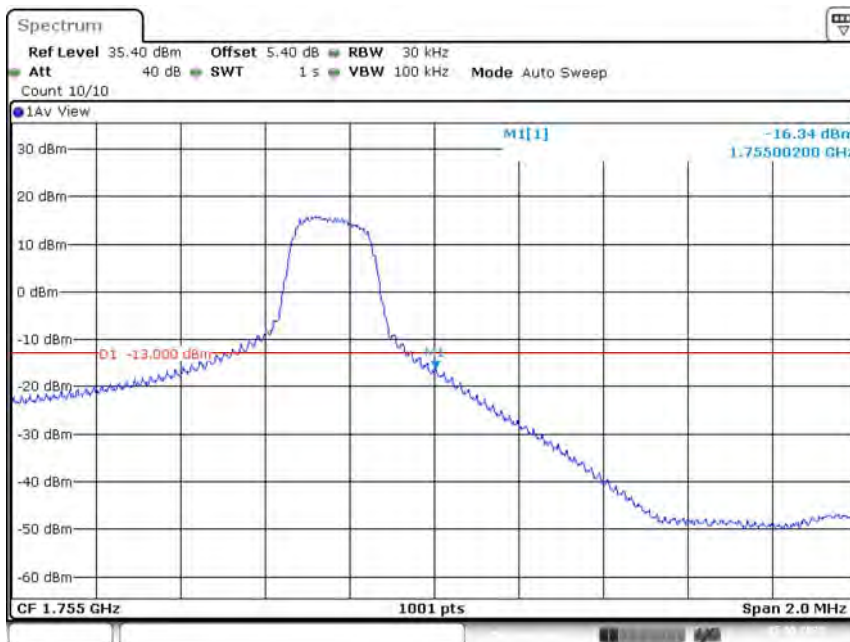
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Band4-3MHz-QPSK-20385-1RB#14



Date: 5.AUG.2020 14:34:46

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



Date: 5.AUG.2020 14:35:06





Band4-3MHz-16QAM-19965-1RB#0



Date: 5.AUG.2020 15:19:43

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

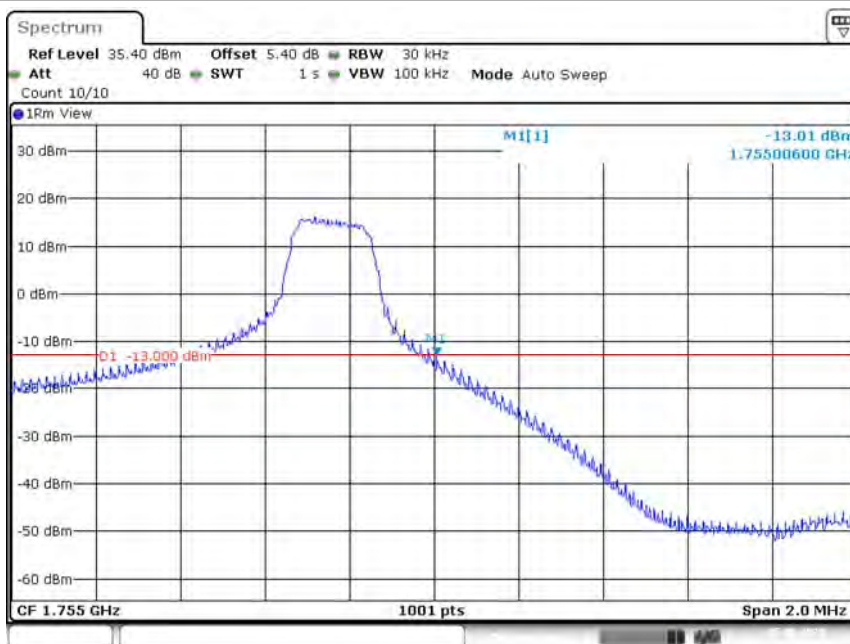


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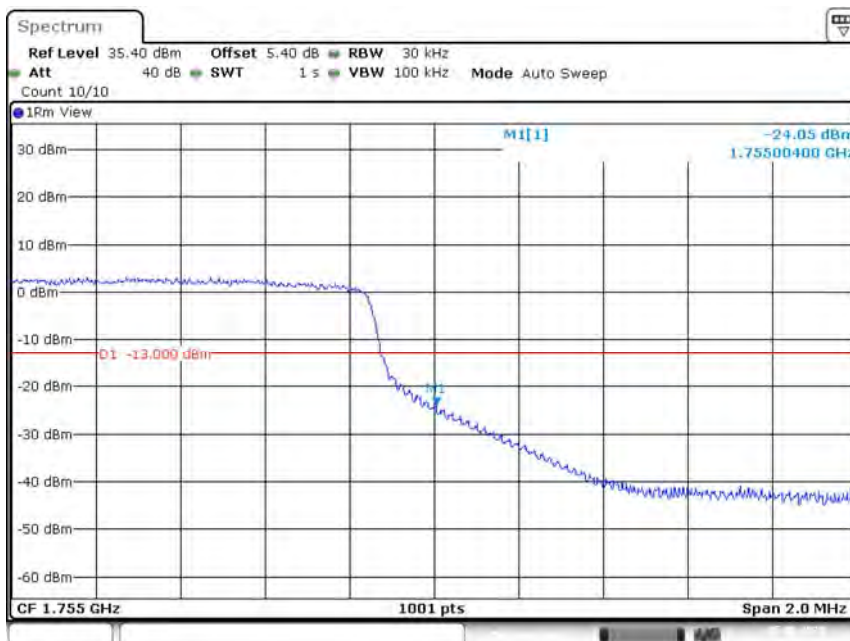


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Date: 5.AUG.2020 12:43:03

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



Date: 5.AUG.2020 12:43:23





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



Date: 5.AUG.2020 14:35:32

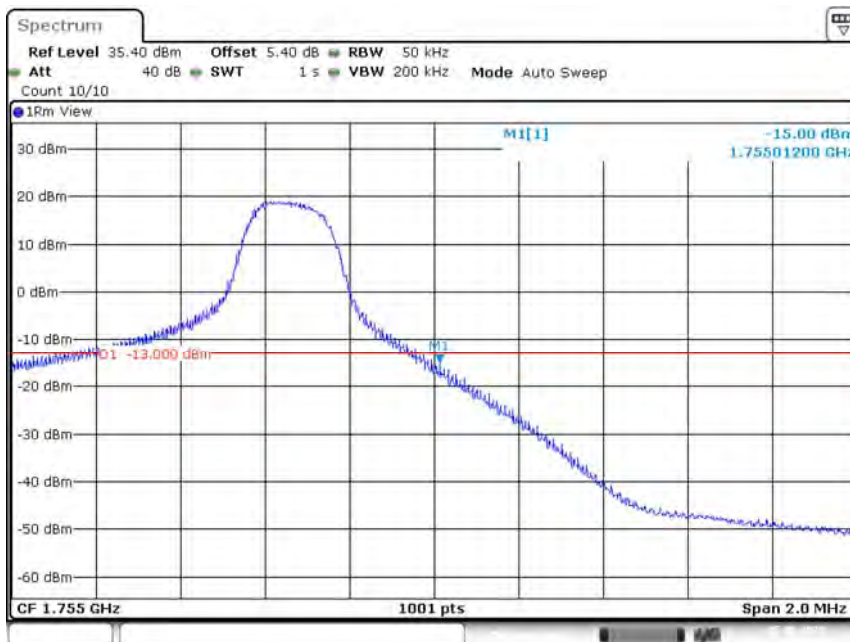
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Date: 5.AUG.2020 14:35:52



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



Date: 5.AUG.2020 14:36:17

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



Date: 5.AUG.2020 14:36:40



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



Date: 5.AUG.2020 12:43:49

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

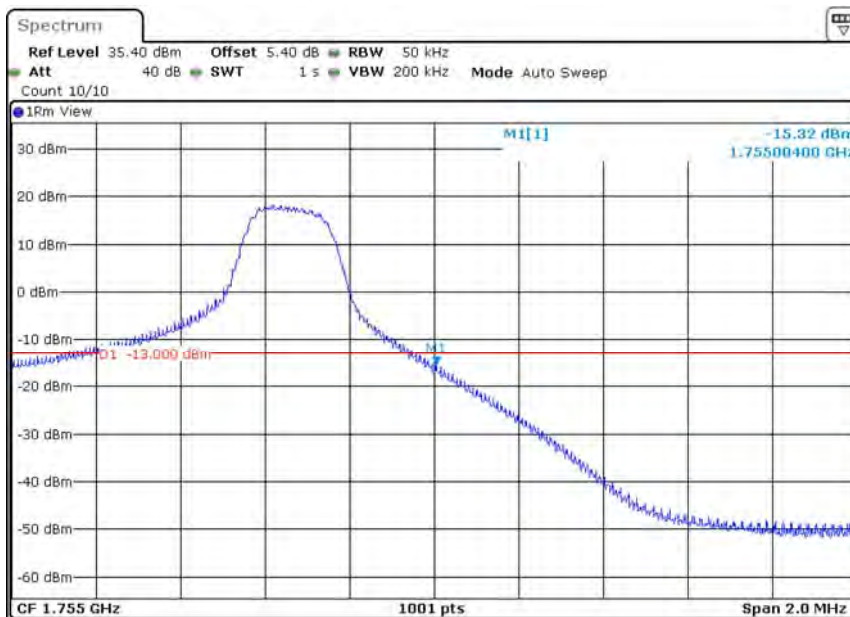


Date: 5.AUG.2020 12:44:09





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



Date: 5.AUG.2020 12:44:34

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



Date: 5.AUG.2020 12:44:55



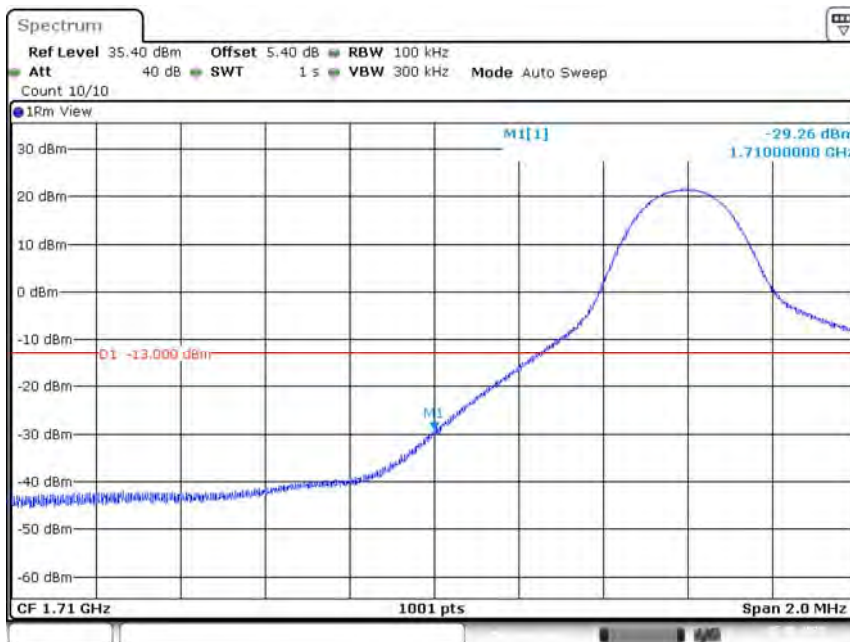
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Band4-10MHz-QPSK-20000-1RB#0



Date: 5.AUG.2020 14:37:06

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

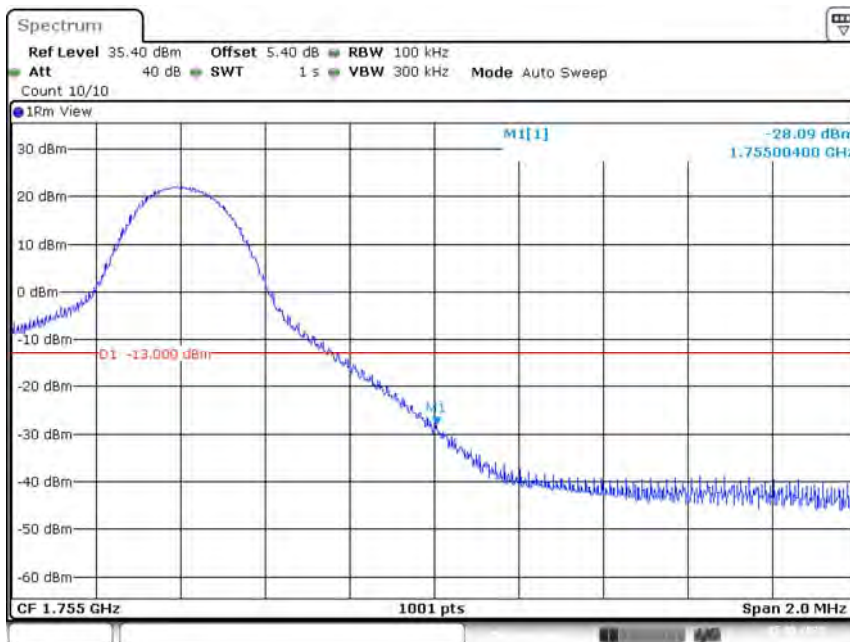


Date: 5.AUG.2020 14:37:27



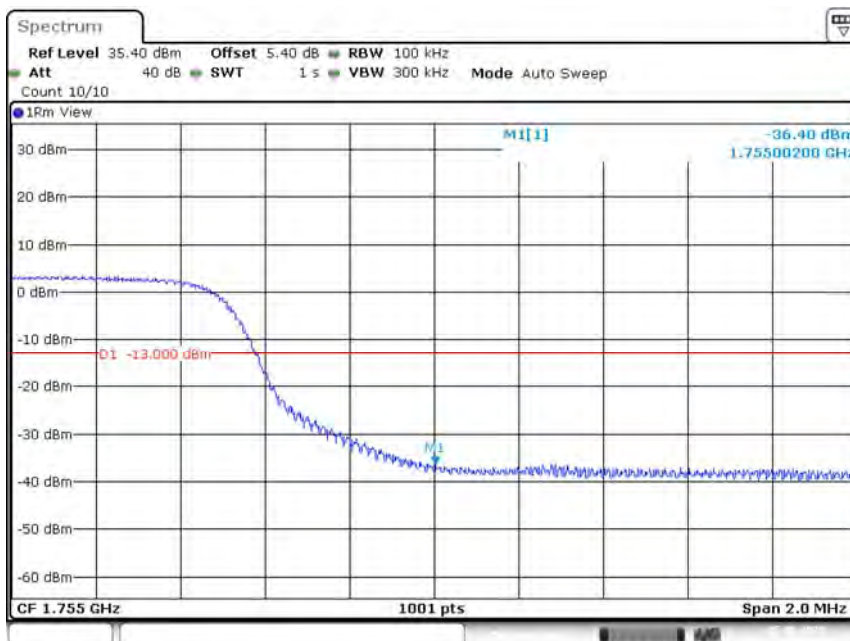


Band4-10MHz-QPSK-20350-1RB#49



Date: 5.AUG.2020 14:37:51

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



Date: 5.AUG.2020 14:38:12



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Band4-10MHz-16QAM-20000-1RB#0



Date: 5.AUG.2020 12:45:20

Band4-10MHz-16QAM-20000-32RB#0

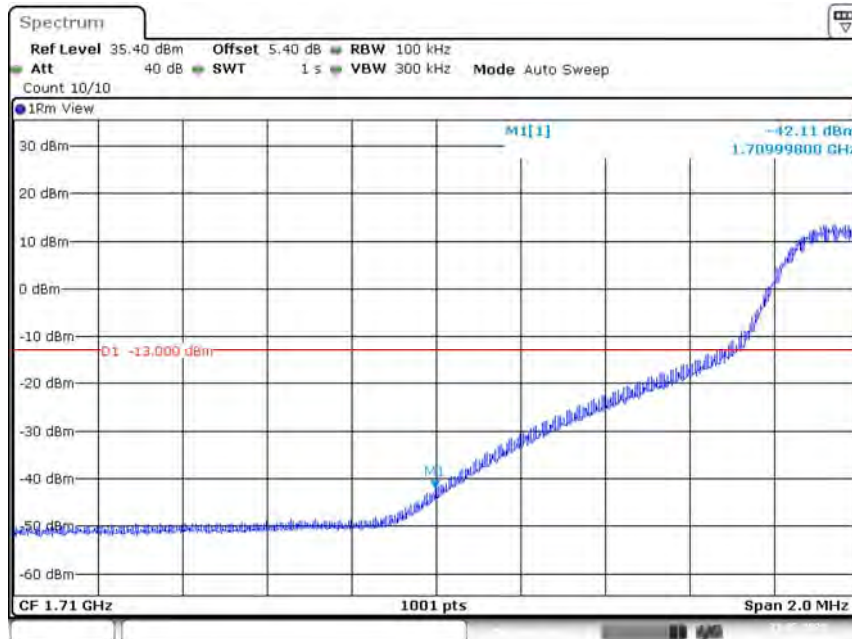


Date: 5.AUG.2020 08:58:13



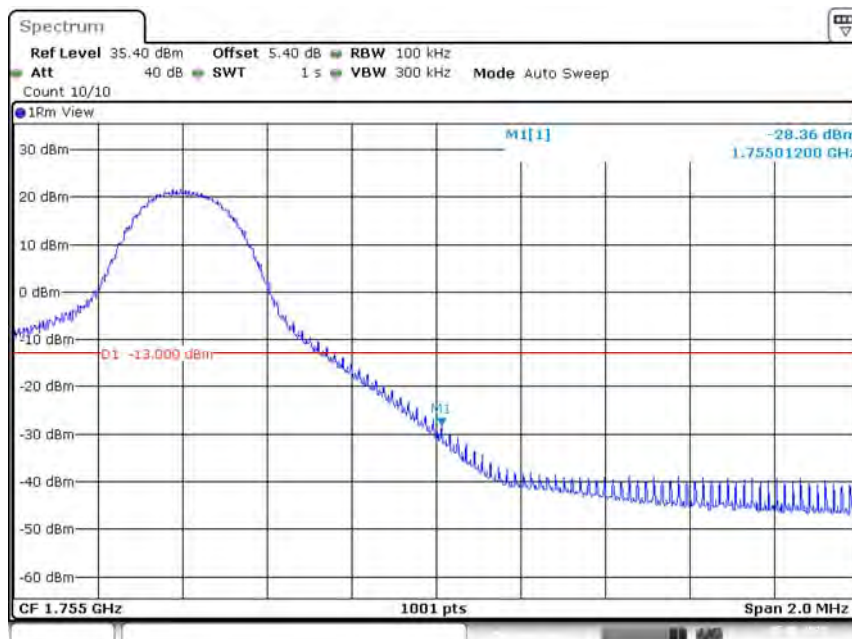


Band4-10MHz-16QAM-20000-50RB#0



Date: 27.JUL.2020 20:08:11

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

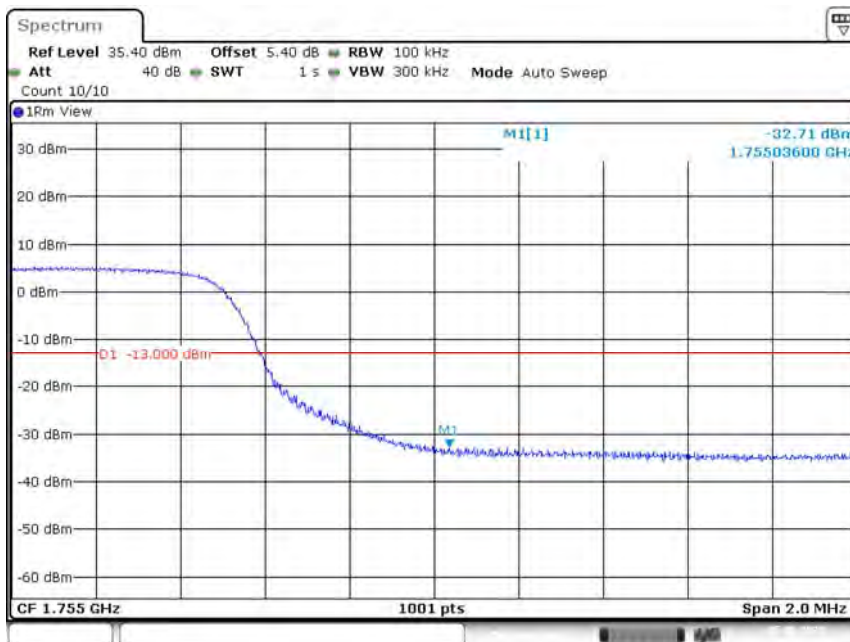


Date: 5.AUG.2020 12:45:45



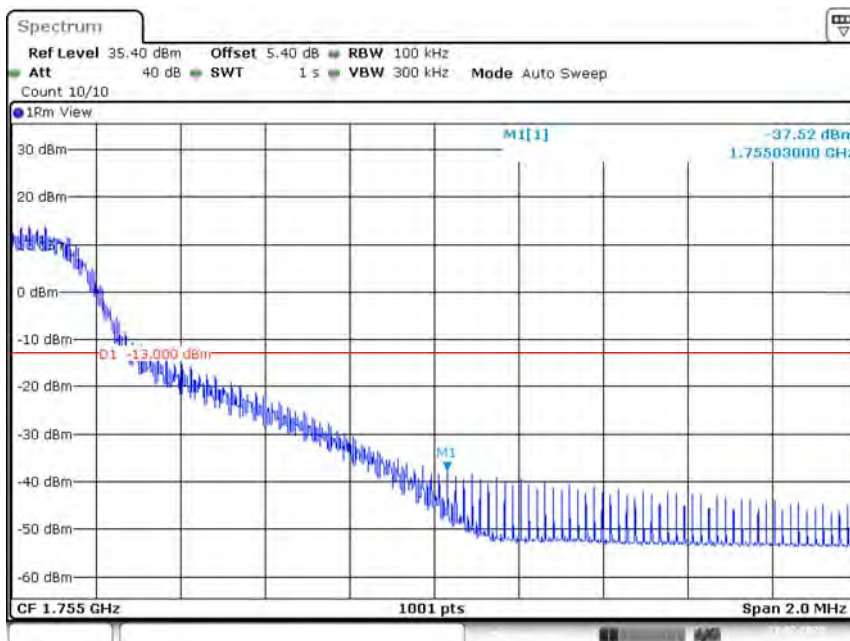


Band4-10MHz-16QAM-20350-32RB#18



Date: 5.AUG.2020 08:58:38

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



Date: 27.JUL.2020 20:09:37



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



Date: 5.AUG.2020 14:39:20

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



Date: 5.AUG.2020 14:39:40

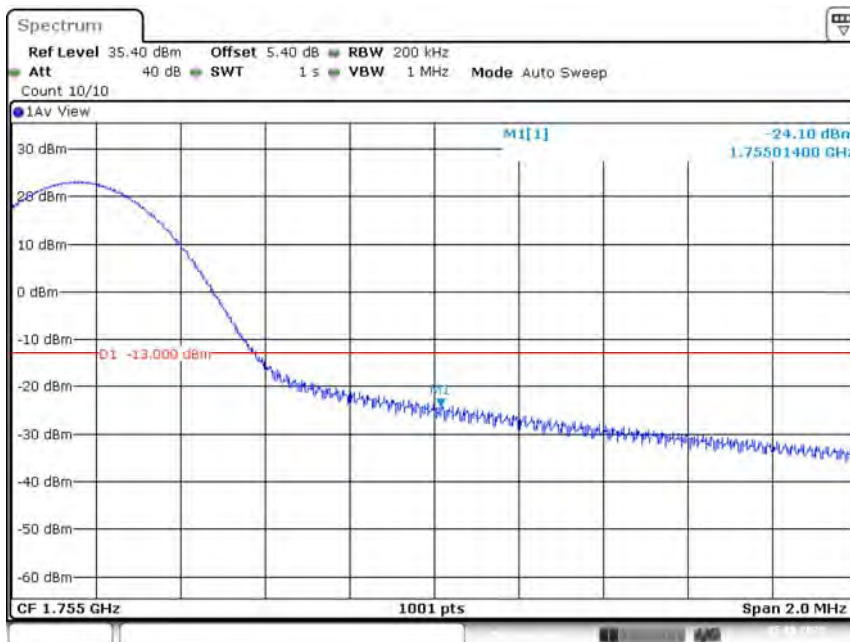


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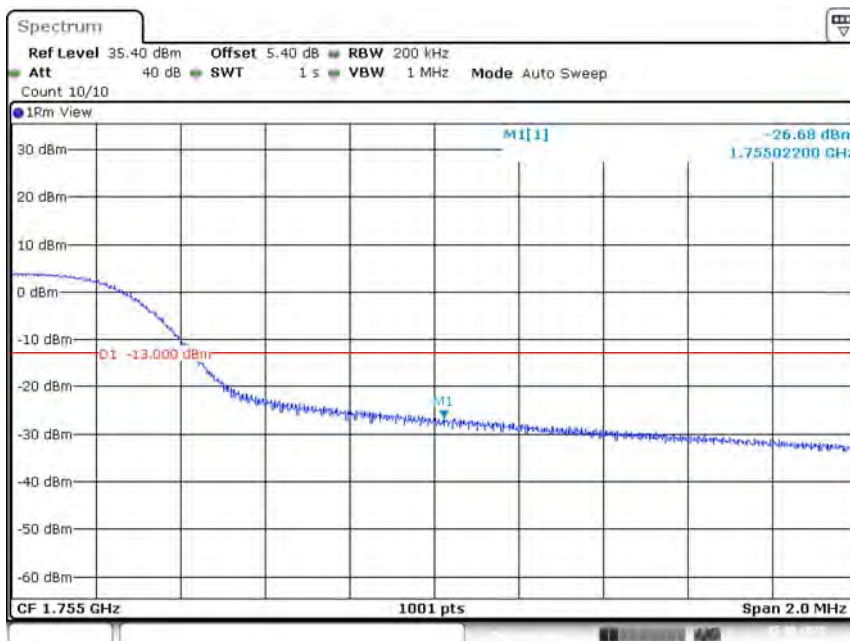


Band4-15MHz-QPSK-20325-1RB#74



Date: 5.AUG.2020 15:21:38

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



Date: 5.AUG.2020 14:40:25



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



Date: 5.AUG.2020 12:46:11

Band4-15MHz-16QAM-20025-32RB#0



Date: 5.AUG.2020 08:59:03

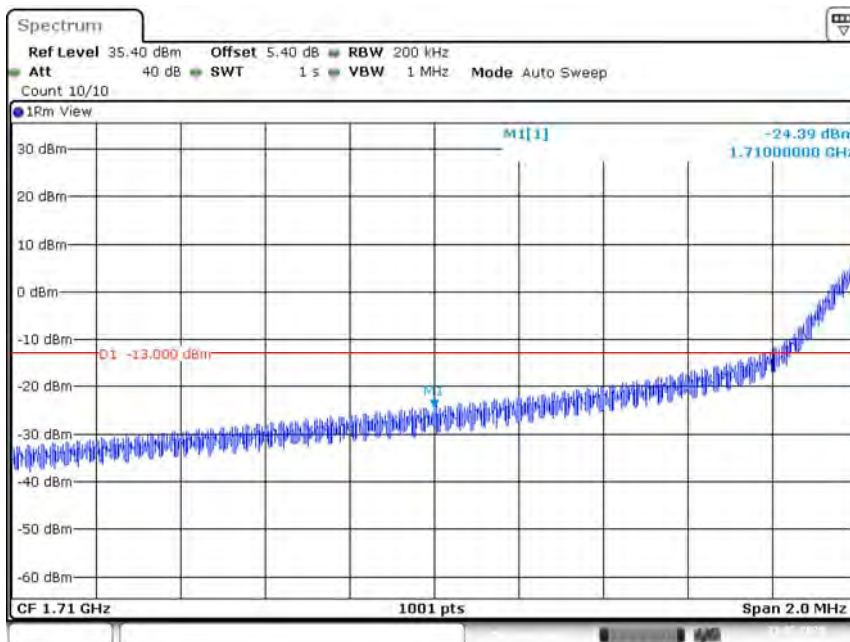


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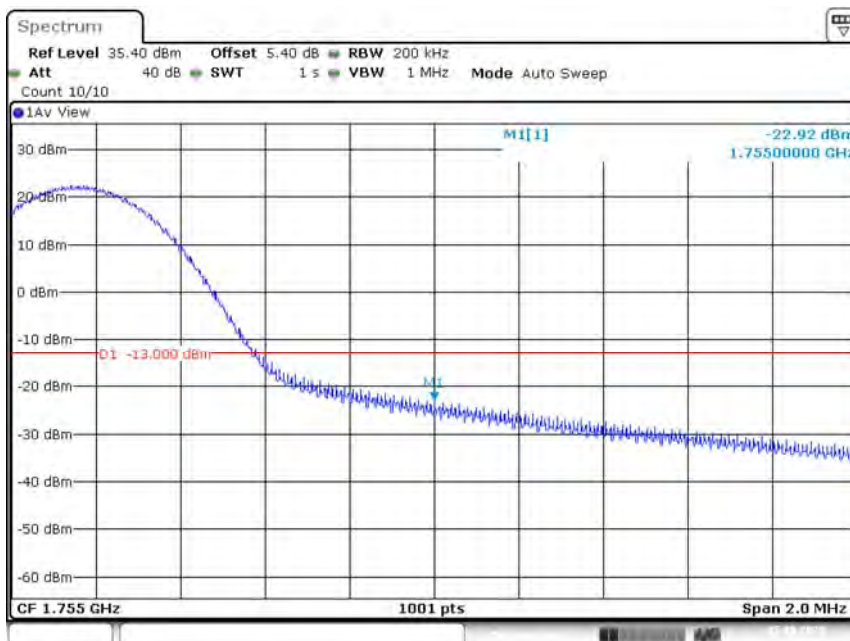


Band4-15MHz-16QAM-20025-75RB#0



Date: 27.JUL.2020 20:11:04

Band4-15MHz-16QAM-20325-1RB#74



Date: 5.AUG.2020 15:20:14



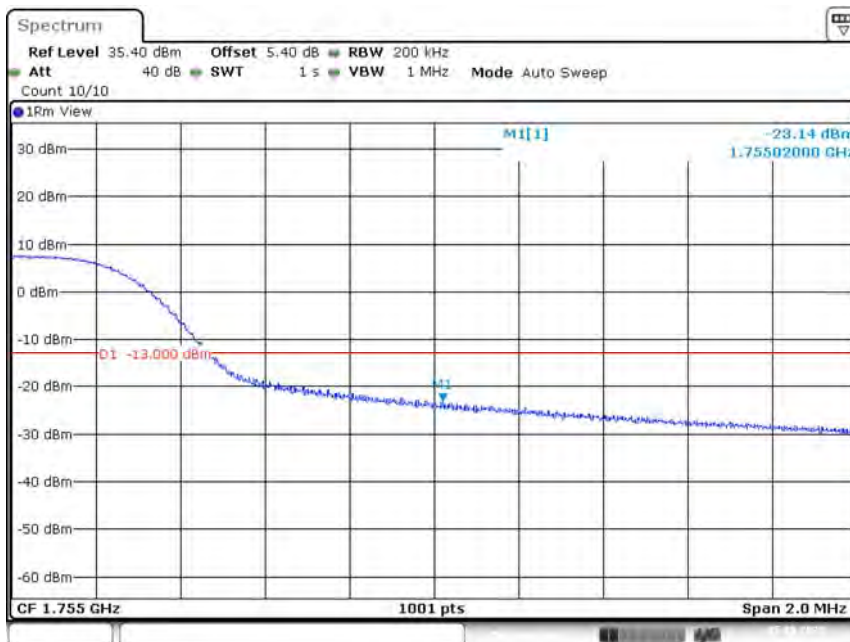
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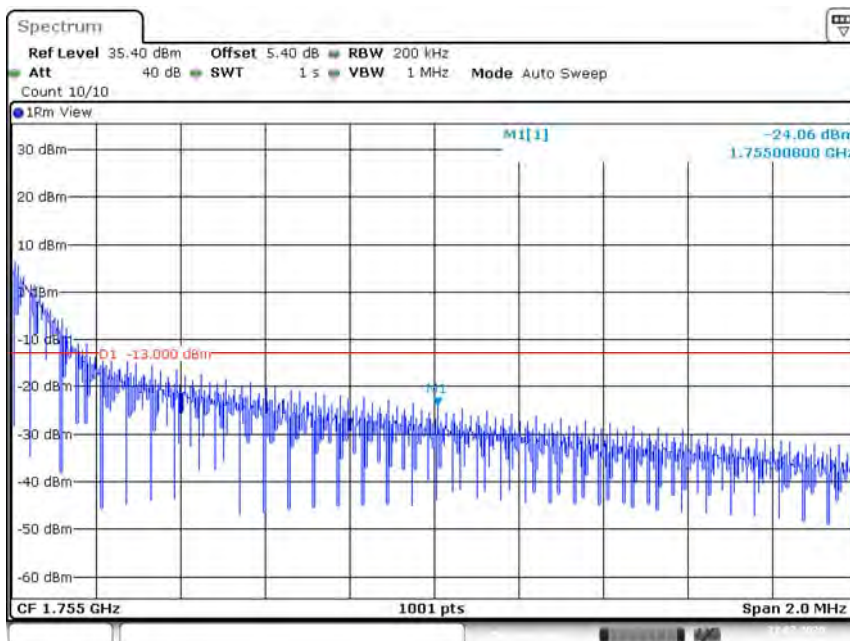


Band4-15MHz-16QAM-20325-32RB#43



Date: 5 AUG 2020 08:59:28

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



Date: 27 JUL 2020 20:12:30



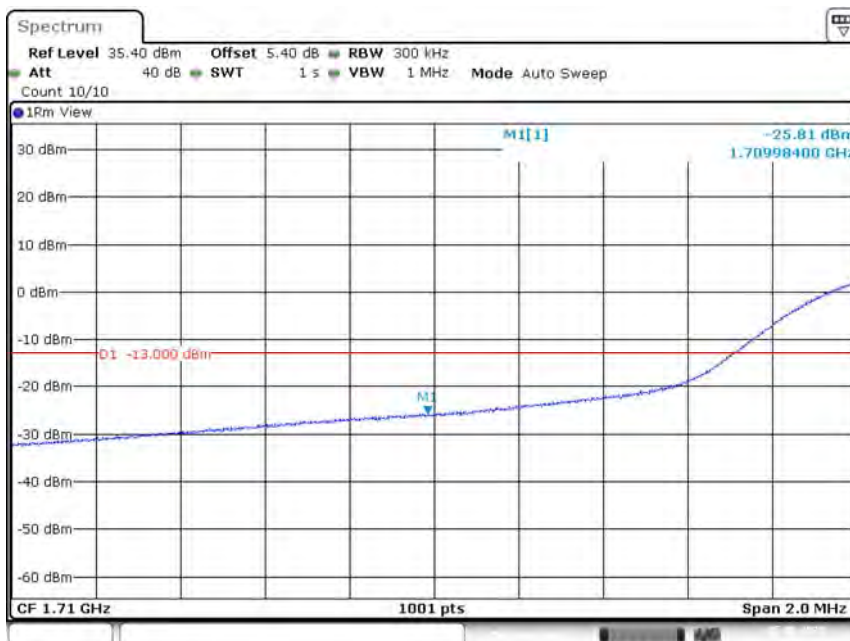


Band4-20MHz-QPSK-20050-1RB#0



Date: 5.AUG.2020 14:40:51

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



Date: 5.AUG.2020 14:41:11



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



Date: 5.AUG.2020 14:41:38

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



Date: 5.AUG.2020 14:41:59





Band4-20MHz-16QAM-20050-1RB#0



Date: 5.AUG.2020 12:47:07

Band4-20MHz-16QAM-20050-32RB#0

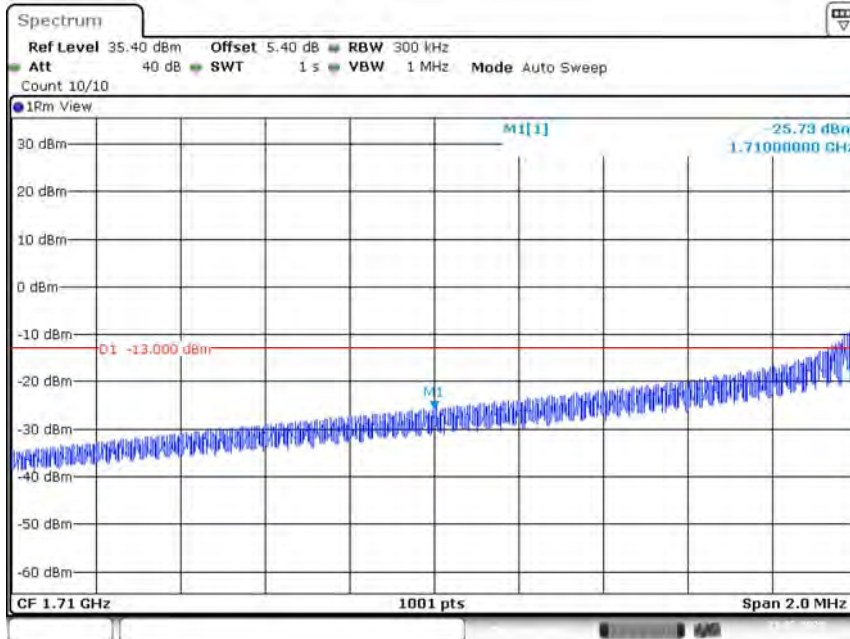


Date: 5.AUG.2020 08:59:53



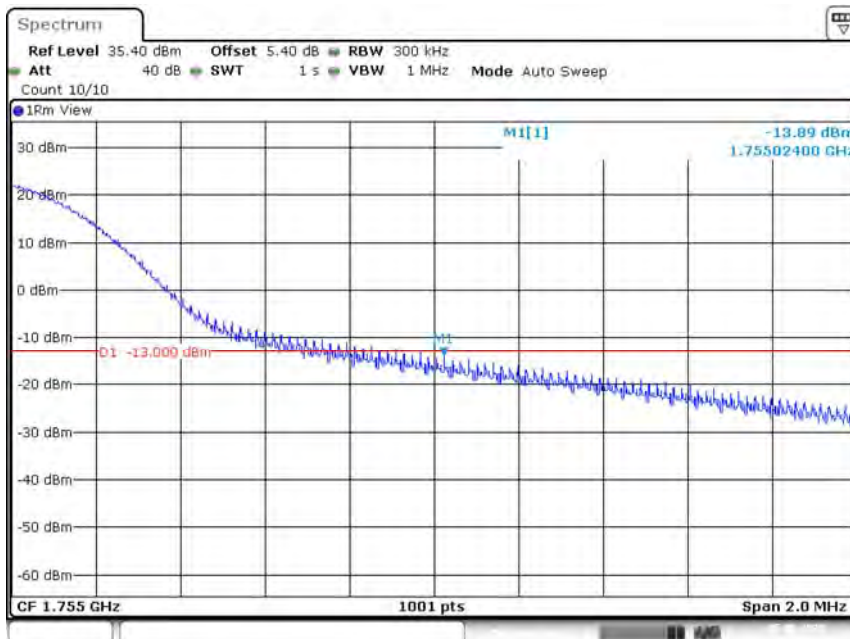


Band4-20MHz-16QAM-20050-100RB#0



Date: 27.JUL.2020 20:13:57

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



Date: 5.AUG.2020 12:47:32

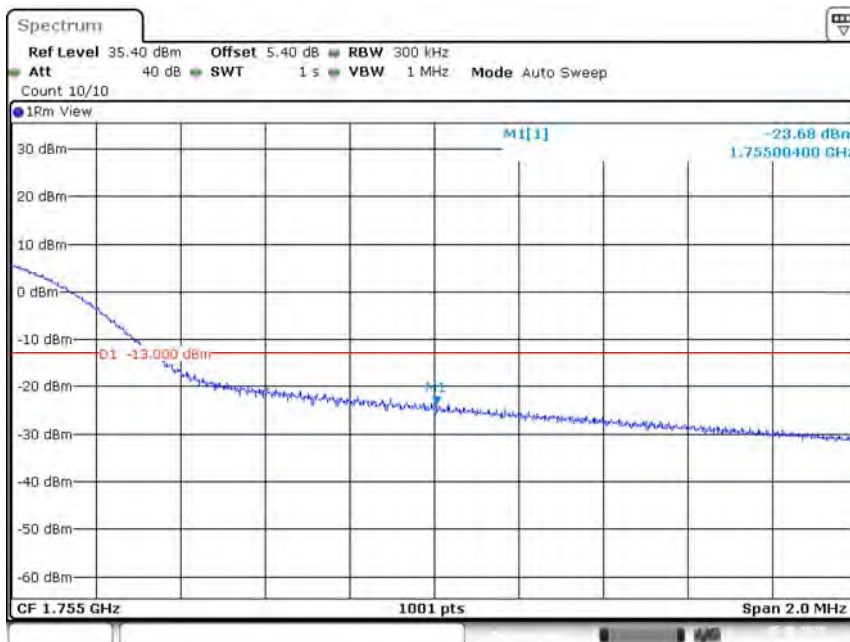


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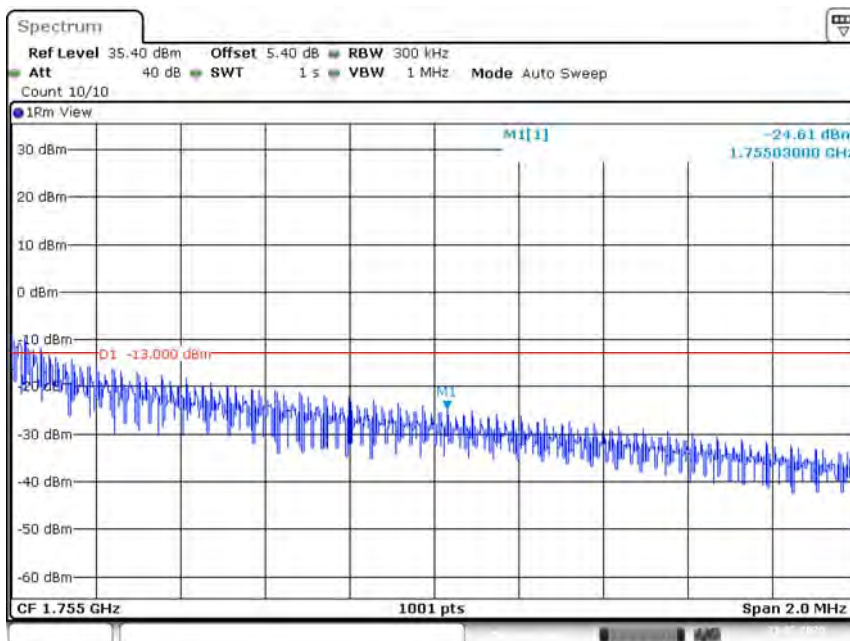


Band4-20MHz-16QAM-20300-32RB#68



Date: 5.AUG.2020 09:00:18

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



Date: 27.JUL.2020 20:15:23



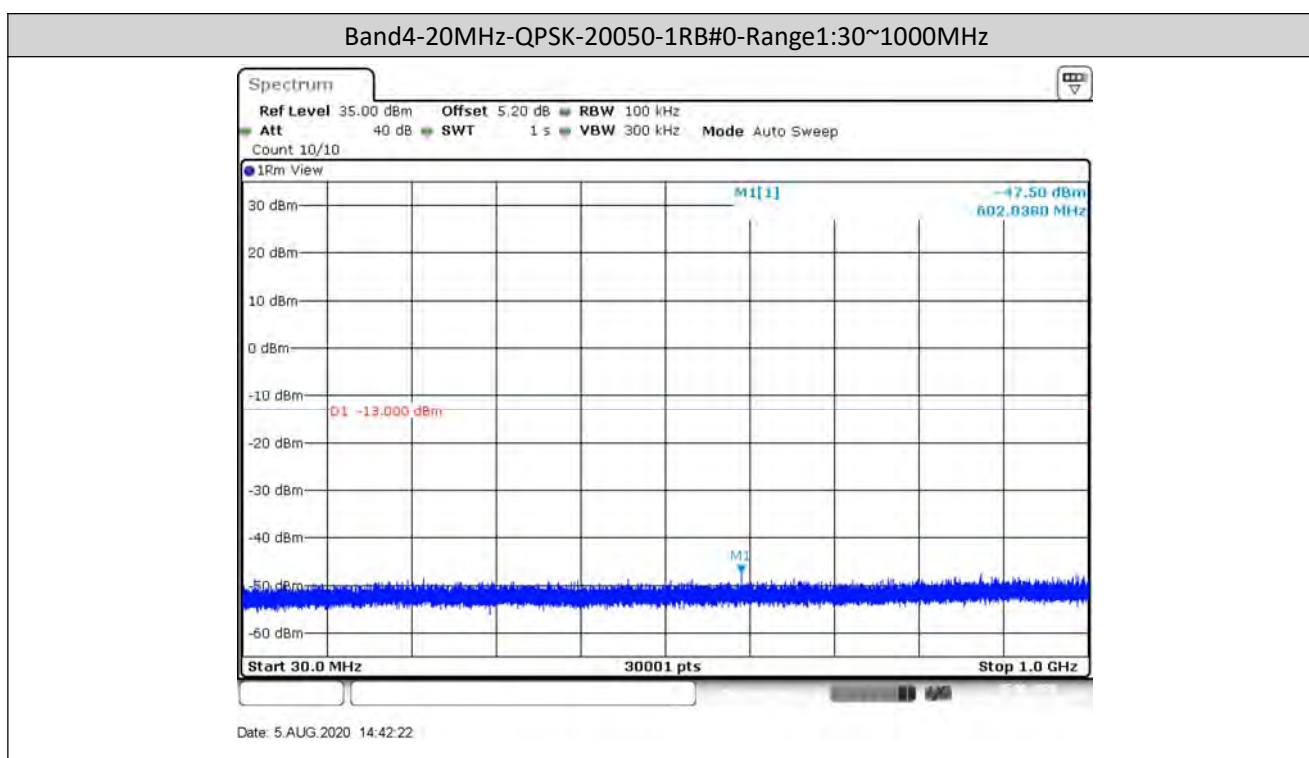


6. Spurious Emission at Antenna Terminal

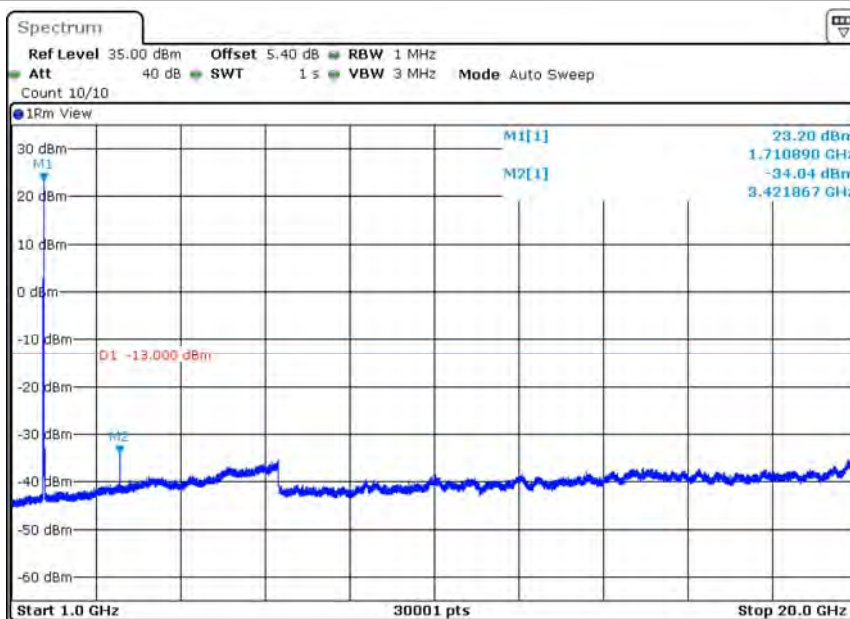
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k * (Span / RBW)$ " 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

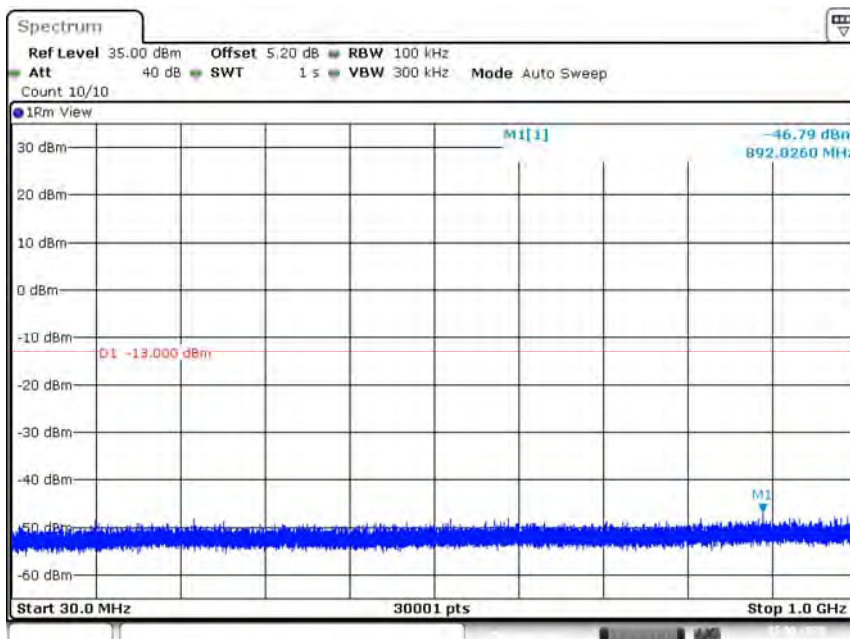


Band4-20MHz-QPSK-20050-1RB#0-Range2:1000~20000MHz



Date: 5.AUG.2020 14:42:39

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



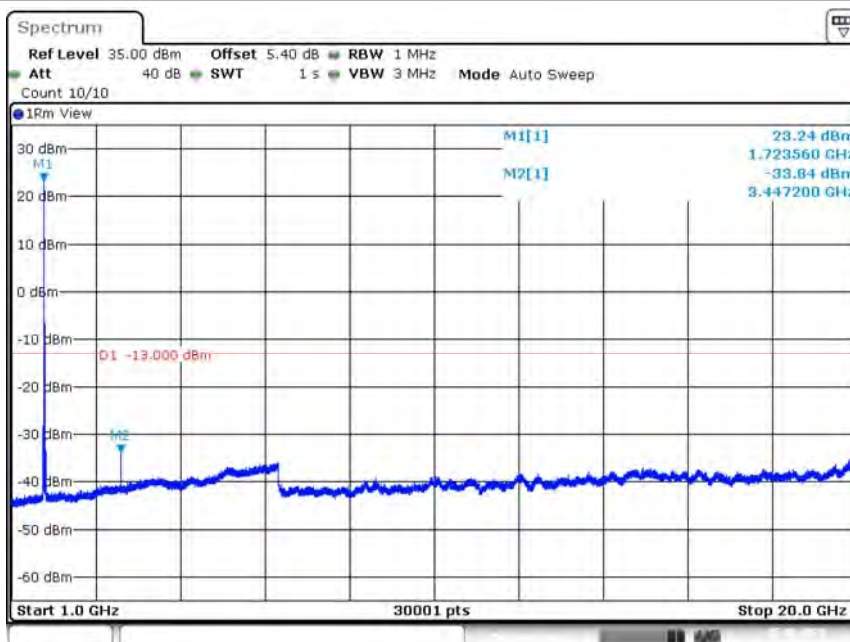
Date: 5.AUG.2020 14:42:58



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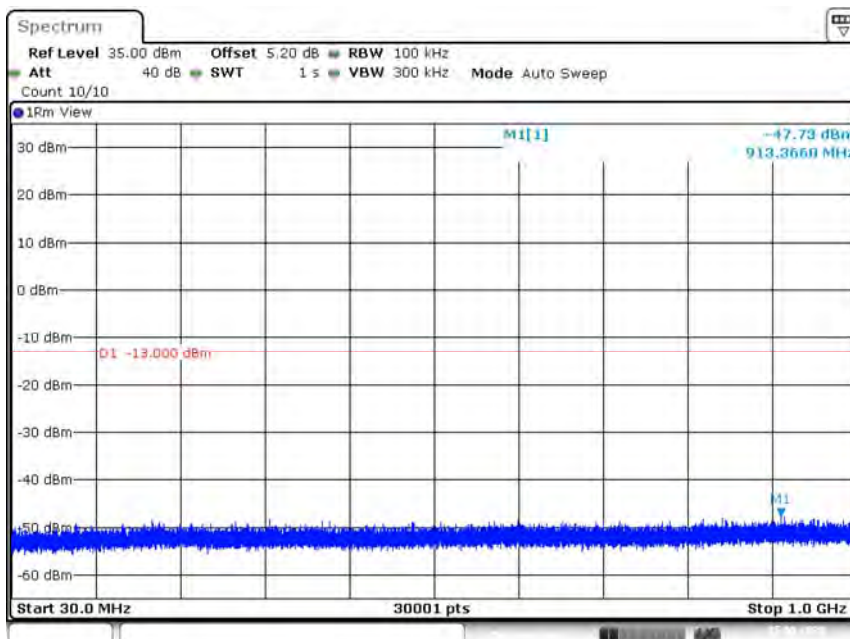
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Band4-20MHz-QPSK-20175-1RB#0-Range2:1000~20000MHz



Date: 5.AUG.2020 14:43:14

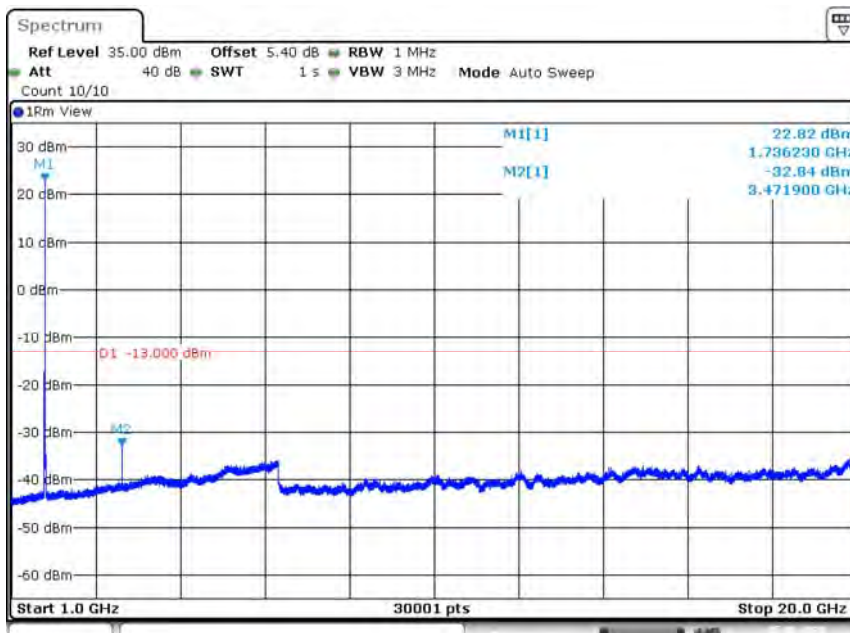
Band4-20MHz-QPSK-20300-1RB#0-Range1:30~1000MHz



Date: 5.AUG.2020 14:43:33

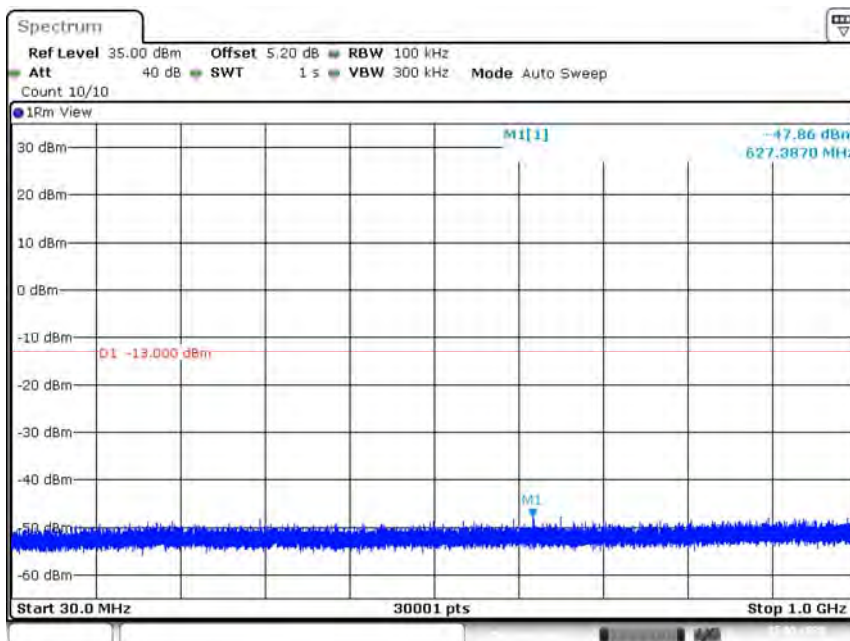


Band4-20MHz-QPSK-20300-1RB#0-Range2:1000~20000MHz



Date: 5.AUG.2020 14:43:49

Band4-20MHz-16QAM-20050-1RB#0-Range1:30~1000MHz



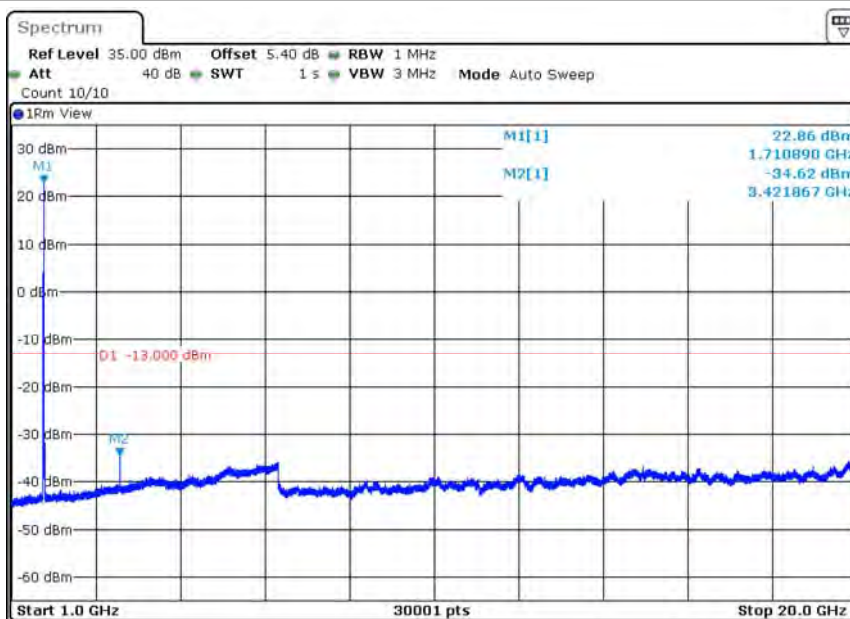
Date: 5.AUG.2020 12:47:55



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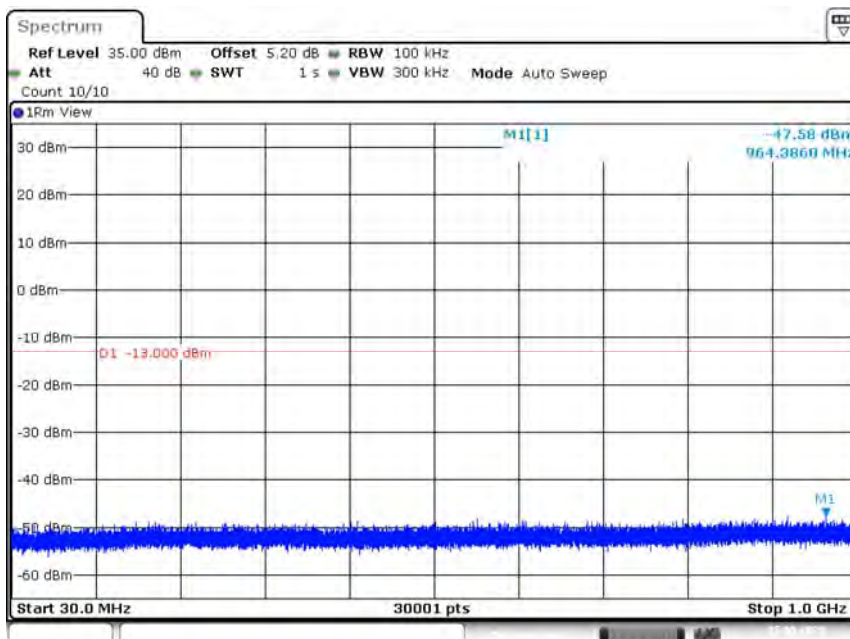
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Band4-20MHz-16QAM-20050-1RB#0-Range2:1000~20000MHz



Date: 5.AUG.2020 12:48:12

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



Date: 5.AUG.2020 12:48:31



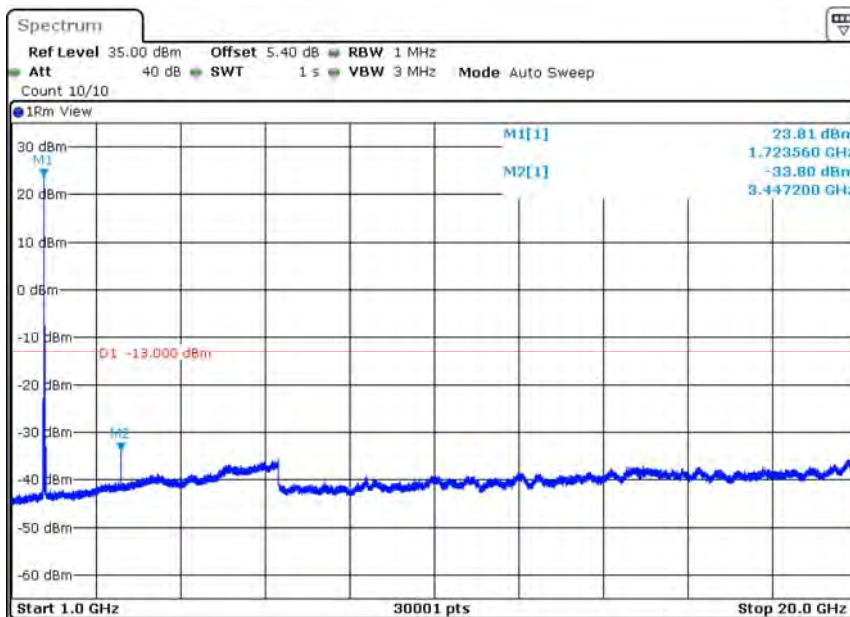
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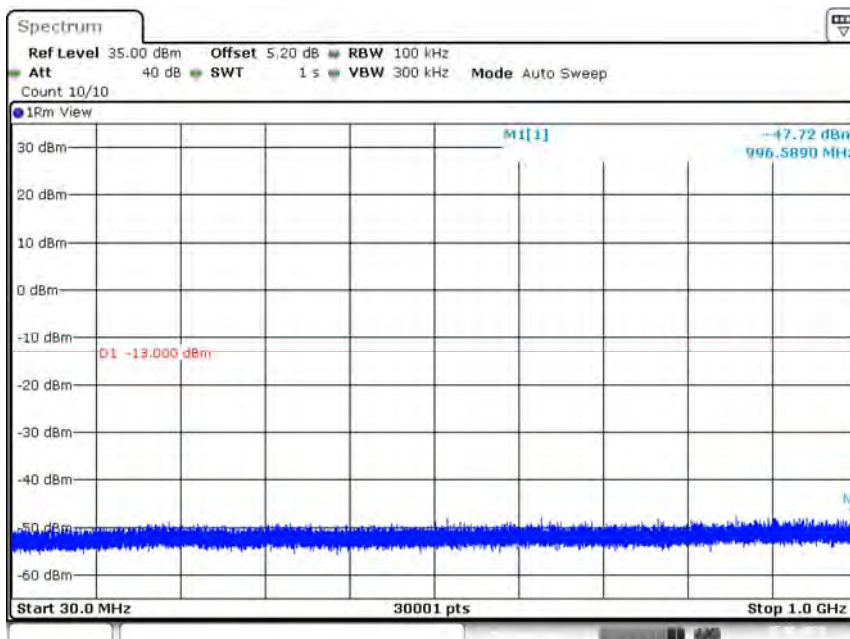
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Band4-20MHz-16QAM-20175-1RB#0-Range2:1000~20000MHz



Date: 5.AUG.2020 12:48:47

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



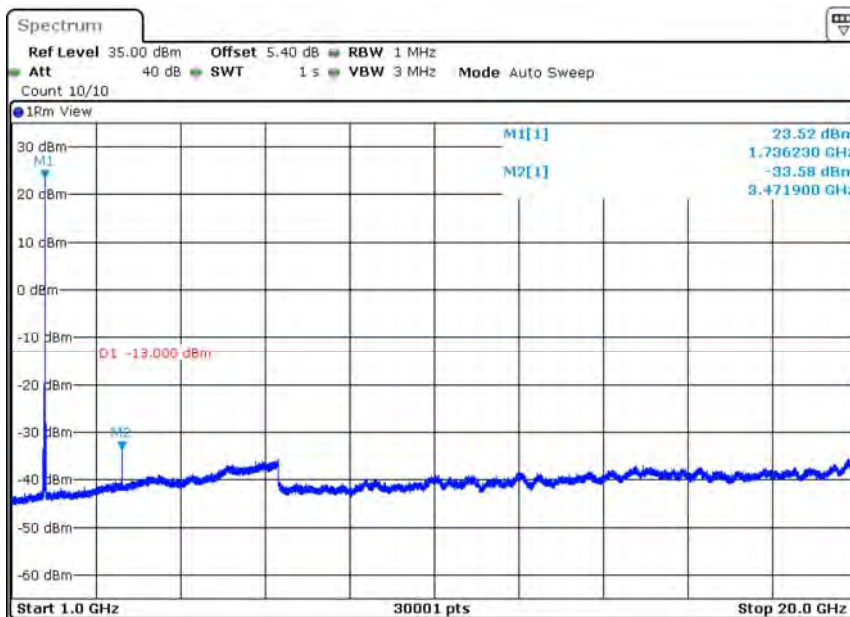
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Band4-20MHz-16QAM-20300-1RB#0-Range2:1000~20000MHz



Date: 5.AUG.2020 12:49:22





7. Field Strength of Spurious Radiation

7.1. Test Mode =LTE/TM1 20MHz

7.1.1.Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
78.5024	-56.89	-13.00	43.89	166	68	Vertical
248.7944	-66.22	-13.00	53.22	132	36	Vertical
3422.5141	-53.67	-13.00	40.67	172	132	Vertical
6844.1281	-46.68	-13.00	33.68	226	100	Vertical
8555.1852	-47.99	-13.00	34.99	284	291	Vertical
17997.4999	-38.98	-13.00	25.98	296	291	Vertical
46.0058	-64.04	-13.00	51.04	269	259	Horizontal
159.7925	-65.25	-13.00	52.25	243	291	Horizontal
338.8634	-62.54	-13.00	49.54	211	67	Horizontal
3422.0141	-36.68	-13.00	23.68	274	195	Horizontal
5133.0711	-58.62	-13.00	45.62	111	99	Horizontal
6844.1281	-51.97	-13.00	38.97	196	259	Horizontal

7.1.2.Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
78.5024	-57.11	-13.00	44.11	166	35	Vertical
247.2909	-66.69	-13.00	53.69	143	35	Vertical
3447.0149	-51.47	-13.00	38.47	172	132	Vertical
6894.6298	-44.17	-13.00	31.17	122	67	Vertical
8617.6873	-48.99	-13.00	35.99	221	291	Vertical
17999.5000	-39.65	-13.00	26.65	284	35	Vertical
45.1328	-64.21	-13.00	51.21	233	259	Horizontal
165.9523	-64.46	-13.00	51.46	284	323	Horizontal
339.0575	-61.58	-13.00	48.58	211	99	Horizontal
3447.0149	-34.76	-13.00	21.76	196	195	Horizontal
6894.6298	-49.81	-13.00	36.81	234	259	Horizontal
8618.1873	-53.04	-13.00	40.04	182	355	Horizontal



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7.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
78.3569	-57.78	-13.00	44.78	172	99	Vertical
337.1659	-64.38	-13.00	51.38	145	291	Vertical
3472.0157	-51.93	-13.00	38.93	137	323	Vertical
6944.1315	-45.08	-13.00	32.08	121	99	Vertical
8680.6894	-48.28	-13.00	35.28	199	131	Vertical
17999.0000	-39.68	-13.00	26.68	162	259	Vertical
42.0771	-64.68	-13.00	51.68	166	163	Horizontal
165.6128	-65.51	-13.00	52.51	245	291	Horizontal
344.5867	-63.38	-13.00	50.38	172	99	Horizontal
3472.0157	-34.52	-13.00	21.52	252	195	Horizontal
6944.6315	-49.77	-13.00	36.77	199	227	Horizontal
16388.9463	-42.87	-13.00	29.87	172	355	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.



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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	-2.10	-0.001221	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	VN	NT	1.10	0.000640	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	VH	NT	-3.90	-0.002267	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	VL	NT	-2.00	-0.001154	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	VN	NT	-4.50	-0.002597	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	VH	NT	4.50	0.002597	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	VL	NT	-7.30	-0.004183	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	VN	NT	-3.60	-0.002063	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	VH	NT	-2.90	-0.001662	±2.5	PASS
Band4	20MHz	16QAM	20050	32RB#0	VL	NT	-4.60	-0.002674	±2.5	PASS
Band4	20MHz	16QAM	20050	32RB#0	VN	NT	-5.70	-0.003314	±2.5	PASS
Band4	20MHz	16QAM	20050	32RB#0	VH	NT	-4.10	-0.002384	±2.5	PASS
Band4	20MHz	16QAM	20175	32RB#0	VL	NT	-3.40	-0.001962	±2.5	PASS
Band4	20MHz	16QAM	20175	32RB#0	VN	NT	-4.60	-0.002655	±2.5	PASS
Band4	20MHz	16QAM	20175	32RB#0	VH	NT	-5.60	-0.003232	±2.5	PASS
Band4	20MHz	16QAM	20300	32RB#0	VL	NT	-1.40	-0.000802	±2.5	PASS
Band4	20MHz	16QAM	20300	32RB#0	VN	NT	-4.40	-0.002521	±2.5	PASS
Band4	20MHz	16QAM	20300	32RB#0	VH	NT	-6.80	-0.003897	±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	-3.70	-0.002151	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	-20	-1.10	-0.000640	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	-10	-0.10	-0.000058	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	0	3.80	0.002209	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	10	-3.70	-0.002151	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	20	-5.30	-0.003081	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	30	-3.20	-0.001860	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	40	-0.60	-0.000349	±2.5	PASS



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Band4	20MHz	QPSK	20050	100RB#0	NV	50	-1.80	-0.001047	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-30	-7.90	-0.004560	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-20	-0.80	-0.000462	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-10	2.40	0.001385	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	0	-4.20	-0.002424	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	10	-3.70	-0.002136	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	20	-0.70	-0.000404	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	30	-2.30	-0.001328	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	40	0.20	0.000115	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	50	-6.20	-0.003579	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	-30	1.80	0.001032	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	-20	-4.10	-0.002350	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	-10	1.90	0.001089	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	0	-1.60	-0.000917	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	10	5.20	0.002980	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	20	-2.00	-0.001146	±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	40	-5.40	-0.003095	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	50	-1.90	-0.001089	±2.5	PASS
Band4	20MHz	16QAM	20050	32RB#0	NV	-30	-6.30	-0.003663	±2.5	PASS
Band4	20MHz	16QAM	20050	32RB#0	NV	-20	-7.20	-0.004186	±2.5	PASS
Band4	20MHz	16QAM	20050	32RB#0	NV	-10	0.20	0.000116	±2.5	PASS
Band4	20MHz	16QAM	20050	32RB#0	NV	0	-5.10	-0.002965	±2.5	PASS
Band4	20MHz	16QAM	20050	32RB#0	NV	10	-4.90	-0.002849	±2.5	PASS
Band4	20MHz	16QAM	20050	32RB#0	NV	20	-6.70	-0.003895	±2.5	PASS
Band4	20MHz	16QAM	20050	32RB#0	NV	30	-4.80	-0.002791	±2.5	PASS
Band4	20MHz	16QAM	20050	32RB#0	NV	40	-3.00	-0.001744	±2.5	PASS
Band4	20MHz	16QAM	20050	32RB#0	NV	50	-4.70	-0.002733	±2.5	PASS
Band4	20MHz	16QAM	20175	32RB#0	NV	-30	-5.40	-0.003117	±2.5	PASS
Band4	20MHz	16QAM	20175	32RB#0	NV	-20	-6.30	-0.003636	±2.5	PASS
Band4	20MHz	16QAM	20175	32RB#0	NV	-10	0.20	0.000116	±2.5	PASS
Band4	20MHz	16QAM	20175	32RB#0	NV	0	-4.00	-0.002309	±2.5	PASS
Band4	20MHz	16QAM	20175	32RB#0	NV	10	-1.30	-0.000750	±2.5	PASS
Band4	20MHz	16QAM	20175	32RB#0	NV	20	-2.60	-0.001501	±2.5	PASS
Band4	20MHz	16QAM	20175	32RB#0	NV	30	-3.40	-0.001962	±2.5	PASS
Band4	20MHz	16QAM	20175	32RB#0	NV	40	-5.40	-0.003117	±2.5	PASS
Band4	20MHz	16QAM	20175	32RB#0	NV	50	-3.10	-0.001789	±2.5	PASS
Band4	20MHz	16QAM	20300	32RB#0	NV	-30	2.90	0.001662	±2.5	PASS



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Band4	20MHz	16QAM	20300	32RB#0	NV	-20	1.30	0.000745	±2.5	PASS
Band4	20MHz	16QAM	20300	32RB#0	NV	-10	1.80	0.001032	±2.5	PASS
Band4	20MHz	16QAM	20300	32RB#0	NV	0	0.60	0.000344	±2.5	PASS
Band4	20MHz	16QAM	20300	32RB#0	NV	10	-3.90	-0.002235	±2.5	PASS
Band4	20MHz	16QAM	20300	32RB#0	NV	20	-5.40	-0.003095	±2.5	PASS
Band4	20MHz	16QAM	20300	32RB#0	NV	30	-3.50	-0.002006	±2.5	PASS
Band4	20MHz	16QAM	20300	32RB#0	NV	40	-6.30	-0.003610	±2.5	PASS
Band4	20MHz	16QAM	20300	32RB#0	NV	50	-1.30	-0.000745	±2.5	PASS



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