

Appendix B

E-UTRA Band 4



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SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Inspection & Testing Services 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
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

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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	23.40	24.4	30.00	PASS
Band4	1.4MHz	QPSK	19957	1RB#0	23.51	24.51	30.00	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	23.49	24.49	30.00	PASS
Band4	1.4MHz	QPSK	19957	3RB#3	23.64	24.64	30.00	PASS
Band4	1.4MHz	QPSK	19957	3RB#0	23.58	24.58	30.00	PASS
Band4	1.4MHz	QPSK	19957	3RB#1	23.61	24.61	30.00	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	22.62	23.62	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	23.71	24.71	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	23.65	24.65	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	23.45	24.45	30.00	PASS
Band4	1.4MHz	QPSK	20175	3RB#0	23.65	24.65	30.00	PASS
Band4	1.4MHz	QPSK	20175	3RB#3	23.82	24.82	30.00	PASS
Band4	1.4MHz	QPSK	20175	3RB#1	23.79	24.79	30.00	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	22.80	23.8	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	23.74	24.74	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	23.56	24.56	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	23.40	24.4	30.00	PASS
Band4	1.4MHz	QPSK	20393	3RB#0	23.82	24.82	30.00	PASS
Band4	1.4MHz	QPSK	20393	3RB#1	23.66	24.66	30.00	PASS
Band4	1.4MHz	QPSK	20393	3RB#3	23.83	24.83	30.00	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	22.74	23.74	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	22.27	23.27	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	22.20	23.2	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	22.23	23.23	30.00	PASS
Band4	1.4MHz	16QAM	19957	3RB#0	22.77	23.77	30.00	PASS
Band4	1.4MHz	16QAM	19957	3RB#3	22.78	23.78	30.00	PASS
Band4	1.4MHz	16QAM	19957	3RB#1	22.83	23.83	30.00	PASS

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Band4	1.4MHz	16QAM	19957	6RB#0	21.82	22.82	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	22.17	23.17	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	22.32	23.32	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	22.36	23.36	30.00	PASS
Band4	1.4MHz	16QAM	20175	3RB#1	22.88	23.88	30.00	PASS
Band4	1.4MHz	16QAM	20175	3RB#3	22.95	23.95	30.00	PASS
Band4	1.4MHz	16QAM	20175	3RB#0	22.85	23.85	30.00	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	21.94	22.94	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	22.22	23.22	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	22.32	23.32	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	22.21	23.21	30.00	PASS
Band4	1.4MHz	16QAM	20393	3RB#1	22.83	23.83	30.00	PASS
Band4	1.4MHz	16QAM	20393	3RB#3	23.01	24.01	30.00	PASS
Band4	1.4MHz	16QAM	20393	3RB#0	22.77	23.77	30.00	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	21.87	22.87	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#14	23.48	24.48	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#0	23.70	24.7	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#8	23.58	24.58	30.00	PASS
Band4	3MHz	QPSK	19965	8RB#7	22.65	23.65	30.00	PASS
Band4	3MHz	QPSK	19965	8RB#4	22.69	23.69	30.00	PASS
Band4	3MHz	QPSK	19965	8RB#0	22.80	23.8	30.00	PASS
Band4	3MHz	QPSK	19965	15RB#0	22.63	23.63	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#14	23.41	24.41	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#8	23.87	24.87	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#0	23.73	24.73	30.00	PASS
Band4	3MHz	QPSK	20175	8RB#7	22.73	23.73	30.00	PASS
Band4	3MHz	QPSK	20175	8RB#4	22.79	23.79	30.00	PASS
Band4	3MHz	QPSK	20175	8RB#0	22.74	23.74	30.00	PASS
Band4	3MHz	QPSK	20175	15RB#0	22.73	23.73	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#8	23.20	24.2	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#0	23.57	24.57	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#14	23.62	24.62	30.00	PASS
Band4	3MHz	QPSK	20385	8RB#0	22.68	23.68	30.00	PASS

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Band4	3MHz	QPSK	20385	8RB#4	22.75	23.75	30.00	PASS
Band4	3MHz	QPSK	20385	8RB#7	22.63	23.63	30.00	PASS
Band4	3MHz	QPSK	20385	15RB#0	22.82	23.82	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#8	22.00	23	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#14	22.25	23.25	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#0	22.05	23.05	30.00	PASS
Band4	3MHz	16QAM	19965	8RB#4	21.53	22.53	30.00	PASS
Band4	3MHz	16QAM	19965	8RB#7	21.52	22.52	30.00	PASS
Band4	3MHz	16QAM	19965	8RB#0	21.57	22.57	30.00	PASS
Band4	3MHz	16QAM	19965	15RB#0	21.84	22.84	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#14	22.15	23.15	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#8	22.16	23.16	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#0	22.39	23.39	30.00	PASS
Band4	3MHz	16QAM	20175	8RB#0	21.71	22.71	30.00	PASS
Band4	3MHz	16QAM	20175	8RB#4	21.64	22.64	30.00	PASS
Band4	3MHz	16QAM	20175	8RB#7	21.80	22.8	30.00	PASS
Band4	3MHz	16QAM	20175	15RB#0	21.74	22.74	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#14	22.24	23.24	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#0	22.07	23.07	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#8	22.62	23.62	30.00	PASS
Band4	3MHz	16QAM	20385	8RB#7	21.59	22.59	30.00	PASS
Band4	3MHz	16QAM	20385	8RB#4	21.75	22.75	30.00	PASS
Band4	3MHz	16QAM	20385	8RB#0	22.01	23.01	30.00	PASS
Band4	3MHz	16QAM	20385	15RB#0	21.88	22.88	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#0	23.57	24.57	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#12	23.38	24.38	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#24	23.21	24.21	30.00	PASS
Band4	5MHz	QPSK	19975	12RB#6	22.63	23.63	30.00	PASS
Band4	5MHz	QPSK	19975	12RB#13	22.45	23.45	30.00	PASS
Band4	5MHz	QPSK	19975	12RB#0	22.66	23.66	30.00	PASS
Band4	5MHz	QPSK	19975	25RB#0	22.56	23.56	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#24	23.54	24.54	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#12	23.71	24.71	30.00	PASS

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Band4	5MHz	QPSK	20175	1RB#0	23.63	24.63	30.00	PASS
Band4	5MHz	QPSK	20175	12RB#13	22.65	23.65	30.00	PASS
Band4	5MHz	QPSK	20175	12RB#6	22.73	23.73	30.00	PASS
Band4	5MHz	QPSK	20175	12RB#0	22.67	23.67	30.00	PASS
Band4	5MHz	QPSK	20175	25RB#0	22.67	23.67	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#12	23.67	24.67	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#0	23.61	24.61	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#24	23.51	24.51	30.00	PASS
Band4	5MHz	QPSK	20375	12RB#0	22.70	23.7	30.00	PASS
Band4	5MHz	QPSK	20375	12RB#6	22.58	23.58	30.00	PASS
Band4	5MHz	QPSK	20375	12RB#13	22.58	23.58	30.00	PASS
Band4	5MHz	QPSK	20375	25RB#0	22.63	23.63	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#12	22.72	23.72	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#24	22.02	23.02	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#0	22.11	23.11	30.00	PASS
Band4	5MHz	16QAM	19975	12RB#6	21.40	22.4	30.00	PASS
Band4	5MHz	16QAM	19975	12RB#13	21.61	22.61	30.00	PASS
Band4	5MHz	16QAM	19975	12RB#0	21.63	22.63	30.00	PASS
Band4	5MHz	16QAM	19975	25RB#0	21.58	22.58	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#24	22.14	23.14	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#0	22.24	23.24	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#12	22.58	23.58	30.00	PASS
Band4	5MHz	16QAM	20175	12RB#13	21.60	22.6	30.00	PASS
Band4	5MHz	16QAM	20175	12RB#6	21.79	22.79	30.00	PASS
Band4	5MHz	16QAM	20175	12RB#0	21.52	22.52	30.00	PASS
Band4	5MHz	16QAM	20175	25RB#0	21.81	22.81	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#0	22.08	23.08	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#12	22.46	23.46	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#24	22.21	23.21	30.00	PASS
Band4	5MHz	16QAM	20375	12RB#0	21.61	22.61	30.00	PASS
Band4	5MHz	16QAM	20375	12RB#6	21.43	22.43	30.00	PASS
Band4	5MHz	16QAM	20375	12RB#13	21.76	22.76	30.00	PASS
Band4	5MHz	16QAM	20375	25RB#0	21.77	22.77	30.00	PASS

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Band4	10MHz	QPSK	20000	1RB#24	23.92	24.92	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#0	23.46	24.46	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#49	23.06	24.06	30.00	PASS
Band4	10MHz	QPSK	20000	25RB#25	22.51	23.51	30.00	PASS
Band4	10MHz	QPSK	20000	25RB#0	22.83	23.83	30.00	PASS
Band4	10MHz	QPSK	20000	25RB#12	22.71	23.71	30.00	PASS
Band4	10MHz	QPSK	20000	50RB#0	22.63	23.63	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#0	23.41	24.41	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#24	24.33	25.33	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#49	23.23	24.23	30.00	PASS
Band4	10MHz	QPSK	20175	25RB#0	22.77	23.77	30.00	PASS
Band4	10MHz	QPSK	20175	25RB#25	22.54	23.54	30.00	PASS
Band4	10MHz	QPSK	20175	25RB#12	22.87	23.87	30.00	PASS
Band4	10MHz	QPSK	20175	50RB#0	22.71	23.71	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#49	23.06	24.06	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#0	23.43	24.43	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#24	24.21	25.21	30.00	PASS
Band4	10MHz	QPSK	20350	25RB#0	23.18	24.18	30.00	PASS
Band4	10MHz	QPSK	20350	25RB#12	22.72	23.72	30.00	PASS
Band4	10MHz	QPSK	20350	25RB#25	22.44	23.44	30.00	PASS
Band4	10MHz	QPSK	20350	50RB#0	22.68	23.68	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#24	22.10	23.1	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#49	22.52	23.52	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#0	22.35	23.35	30.00	PASS
Band4	10MHz	16QAM	20000	25RB#0	21.70	22.7	30.00	PASS
Band4	10MHz	16QAM	20000	25RB#25	21.67	22.67	30.00	PASS
Band4	10MHz	16QAM	20000	25RB#12	21.75	22.75	30.00	PASS
Band4	10MHz	16QAM	20000	50RB#0	21.56	22.56	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#49	22.23	23.23	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#24	22.44	23.44	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#0	22.52	23.52	30.00	PASS
Band4	10MHz	16QAM	20175	25RB#12	21.77	22.77	30.00	PASS
Band4	10MHz	16QAM	20175	25RB#25	21.73	22.73	30.00	PASS

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Band4	10MHz	16QAM	20175	25RB#0	21.82	22.82	30.00	PASS
Band4	10MHz	16QAM	20175	50RB#0	21.79	22.79	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#49	22.38	23.38	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#24	22.46	23.46	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#0	22.22	23.22	30.00	PASS
Band4	10MHz	16QAM	20350	25RB#12	21.64	22.64	30.00	PASS
Band4	10MHz	16QAM	20350	25RB#25	21.60	22.6	30.00	PASS
Band4	10MHz	16QAM	20350	25RB#0	21.80	22.8	30.00	PASS
Band4	10MHz	16QAM	20350	50RB#0	21.70	22.7	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#74	23.18	24.18	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#0	23.58	24.58	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#38	24.11	25.11	30.00	PASS
Band4	15MHz	QPSK	20025	36RB#39	22.46	23.46	30.00	PASS
Band4	15MHz	QPSK	20025	36RB#18	22.79	23.79	30.00	PASS
Band4	15MHz	QPSK	20025	36RB#0	22.91	23.91	30.00	PASS
Band4	15MHz	QPSK	20025	75RB#0	22.61	23.61	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#74	23.17	24.17	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#38	24.24	25.24	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#0	23.40	24.4	30.00	PASS
Band4	15MHz	QPSK	20175	36RB#39	22.65	23.65	30.00	PASS
Band4	15MHz	QPSK	20175	36RB#18	23.00	24	30.00	PASS
Band4	15MHz	QPSK	20175	36RB#0	22.83	23.83	30.00	PASS
Band4	15MHz	QPSK	20175	75RB#0	22.71	23.71	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#38	24.23	25.23	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#0	23.44	24.44	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#74	23.02	24.02	30.00	PASS
Band4	15MHz	QPSK	20325	36RB#0	23.04	24.04	30.00	PASS
Band4	15MHz	QPSK	20325	36RB#18	22.85	23.85	30.00	PASS
Band4	15MHz	QPSK	20325	36RB#39	22.44	23.44	30.00	PASS
Band4	15MHz	QPSK	20325	75RB#0	22.78	23.78	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#38	22.11	23.11	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#74	22.28	23.28	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#0	22.37	23.37	30.00	PASS

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Band4	15MHz	16QAM	20025	36RB#18	21.72	22.72	30.00	PASS
Band4	15MHz	16QAM	20025	36RB#39	21.63	22.63	30.00	PASS
Band4	15MHz	16QAM	20025	36RB#0	21.50	22.5	30.00	PASS
Band4	15MHz	16QAM	20025	75RB#0	21.63	22.63	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#74	22.24	23.24	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#38	22.28	23.28	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#0	22.17	23.17	30.00	PASS
Band4	15MHz	16QAM	20175	36RB#0	21.90	22.9	30.00	PASS
Band4	15MHz	16QAM	20175	36RB#18	21.88	22.88	30.00	PASS
Band4	15MHz	16QAM	20175	36RB#39	21.73	22.73	30.00	PASS
Band4	15MHz	16QAM	20175	75RB#0	21.75	22.75	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#74	22.82	23.82	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#0	22.92	23.92	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#38	22.29	23.29	30.00	PASS
Band4	15MHz	16QAM	20325	36RB#39	21.70	22.7	30.00	PASS
Band4	15MHz	16QAM	20325	36RB#18	21.78	22.78	30.00	PASS
Band4	15MHz	16QAM	20325	36RB#0	21.70	22.7	30.00	PASS
Band4	15MHz	16QAM	20325	75RB#0	21.81	22.81	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#0	23.43	24.43	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#49	24.21	25.21	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#99	23.00	24	30.00	PASS
Band4	20MHz	QPSK	20050	50RB#25	22.72	23.72	30.00	PASS
Band4	20MHz	QPSK	20050	50RB#50	22.53	23.53	30.00	PASS
Band4	20MHz	QPSK	20050	50RB#0	22.95	23.95	30.00	PASS
Band4	20MHz	QPSK	20050	100RB#0	22.68	23.68	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#99	23.02	24.02	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#49	24.28	25.28	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#0	23.35	24.35	30.00	PASS
Band4	20MHz	QPSK	20175	50RB#50	22.66	23.66	30.00	PASS
Band4	20MHz	QPSK	20175	50RB#25	22.98	23.98	30.00	PASS
Band4	20MHz	QPSK	20175	50RB#0	22.97	23.97	30.00	PASS
Band4	20MHz	QPSK	20175	100RB#0	22.79	23.79	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#49	24.52	25.52	30.00	PASS

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Band4	20MHz	QPSK	20300	1RB#0	23.43	24.43	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#99	23.19	24.19	30.00	PASS
Band4	20MHz	QPSK	20300	50RB#0	23.25	24.25	30.00	PASS
Band4	20MHz	QPSK	20300	50RB#25	23.03	24.03	30.00	PASS
Band4	20MHz	QPSK	20300	50RB#50	22.47	23.47	30.00	PASS
Band4	20MHz	QPSK	20300	100RB#0	22.76	23.76	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#49	22.16	23.16	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#99	22.17	23.17	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#0	22.62	23.62	30.00	PASS
Band4	20MHz	16QAM	20050	50RB#25	21.66	22.66	30.00	PASS
Band4	20MHz	16QAM	20050	50RB#50	21.76	22.76	30.00	PASS
Band4	20MHz	16QAM	20050	50RB#0	21.67	22.67	30.00	PASS
Band4	20MHz	16QAM	20050	100RB#0	21.72	22.72	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#99	22.68	23.68	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#0	22.67	23.67	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#49	22.80	23.8	30.00	PASS
Band4	20MHz	16QAM	20175	50RB#50	21.81	22.81	30.00	PASS
Band4	20MHz	16QAM	20175	50RB#25	21.82	22.82	30.00	PASS
Band4	20MHz	16QAM	20175	50RB#0	21.75	22.75	30.00	PASS
Band4	20MHz	16QAM	20175	100RB#0	21.84	22.84	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#0	22.41	23.41	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#49	22.40	23.4	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#99	22.37	23.37	30.00	PASS
Band4	20MHz	16QAM	20300	50RB#0	21.88	22.88	30.00	PASS
Band4	20MHz	16QAM	20300	50RB#25	21.86	22.86	30.00	PASS
Band4	20MHz	16QAM	20300	50RB#50	21.72	22.72	30.00	PASS
Band4	20MHz	16QAM	20300	100RB#0	21.69	22.69	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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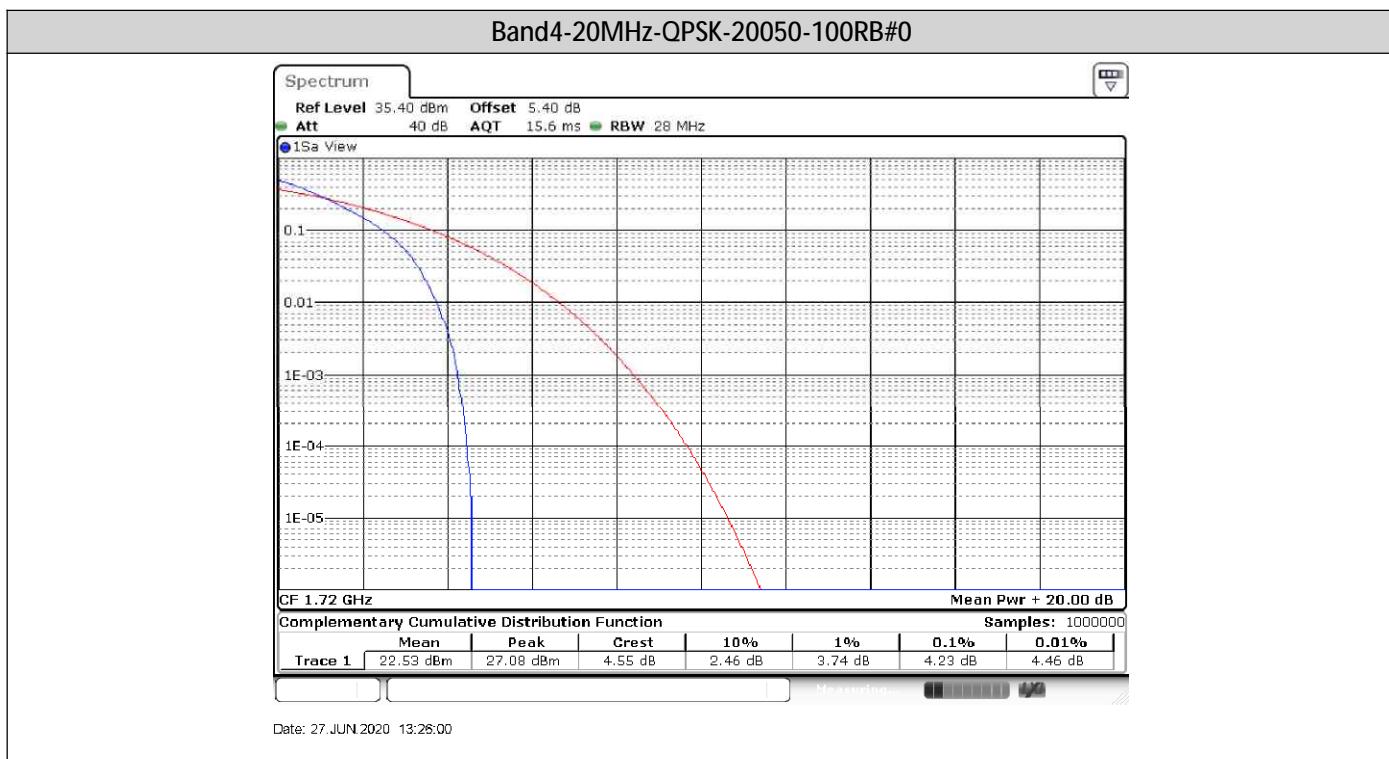
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2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band4	20MHz	QPSK	20050	100RB#0	4.23	13	PASS
Band4	20MHz	QPSK	20175	100RB#0	4.26	13	PASS
Band4	20MHz	QPSK	20300	100RB#0	4.14	13	PASS
Band4	20MHz	16QAM	20050	100RB#0	5.07	13	PASS
Band4	20MHz	16QAM	20175	100RB#0	5.10	13	PASS
Band4	20MHz	16QAM	20300	100RB#0	5.01	13	PASS

2.2. Test Plots



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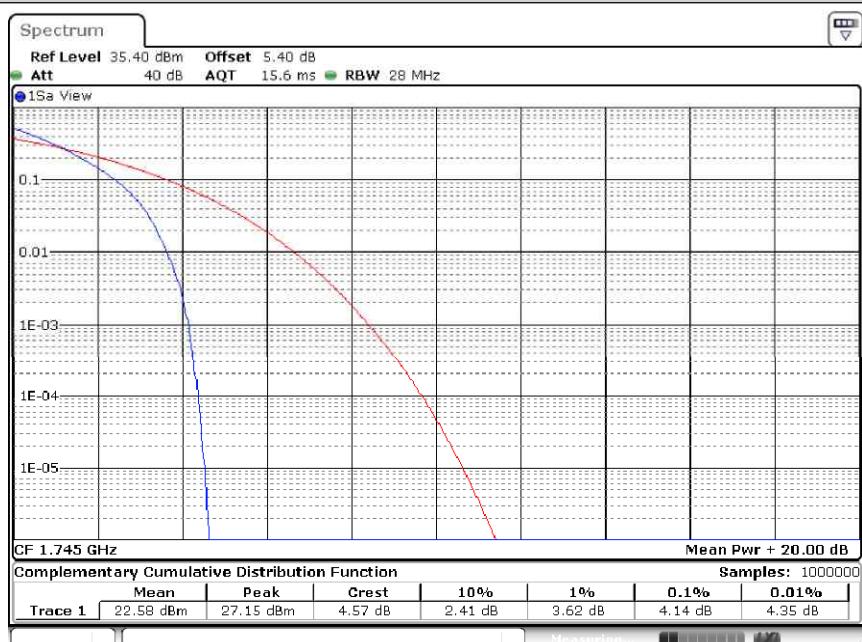


Band4-20MHz-QPSK-20175-100RB#0



Date: 27.JUN.2020 13:26:23

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



Date: 27.JUN.2020 13:26:46

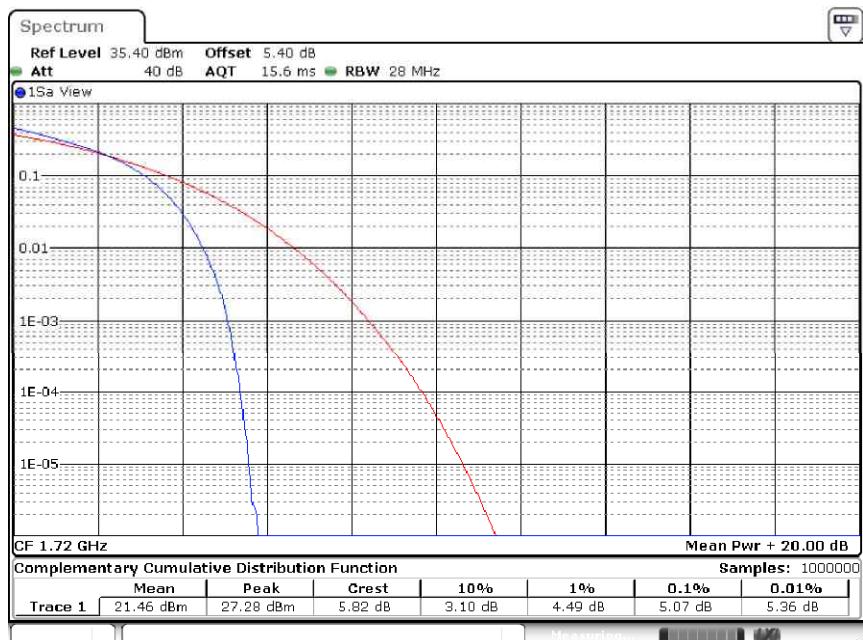
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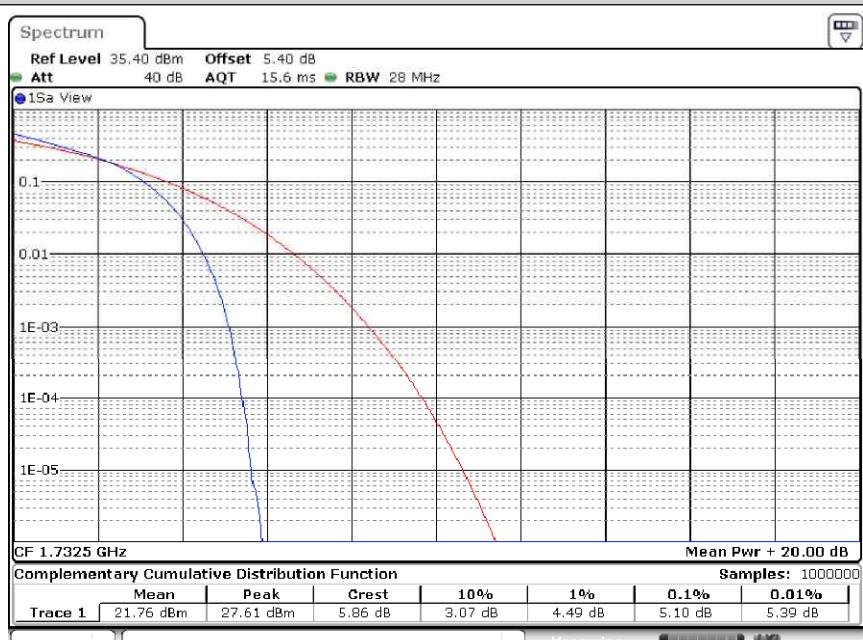
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Band4-20MHz-16QAM-20050-100RB#0



Date: 27.JUN.2020 13:26:11

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



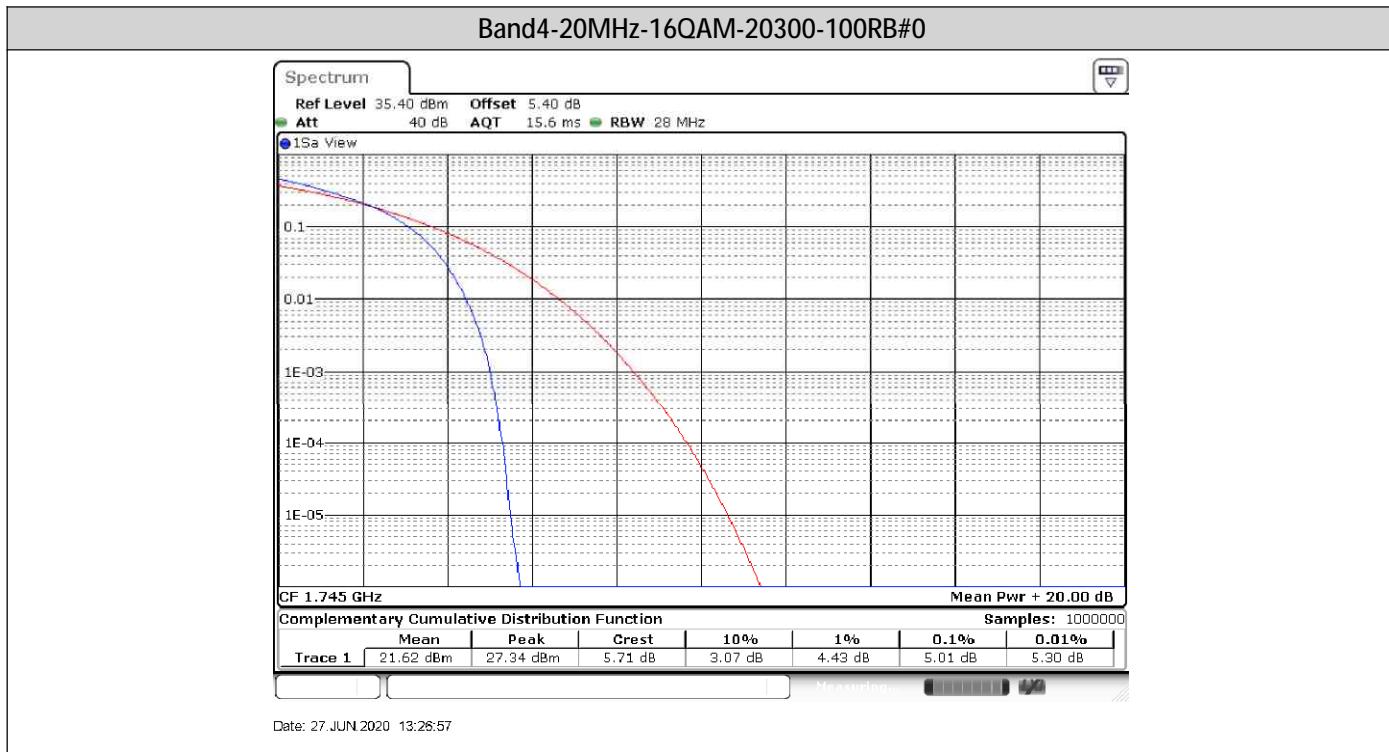
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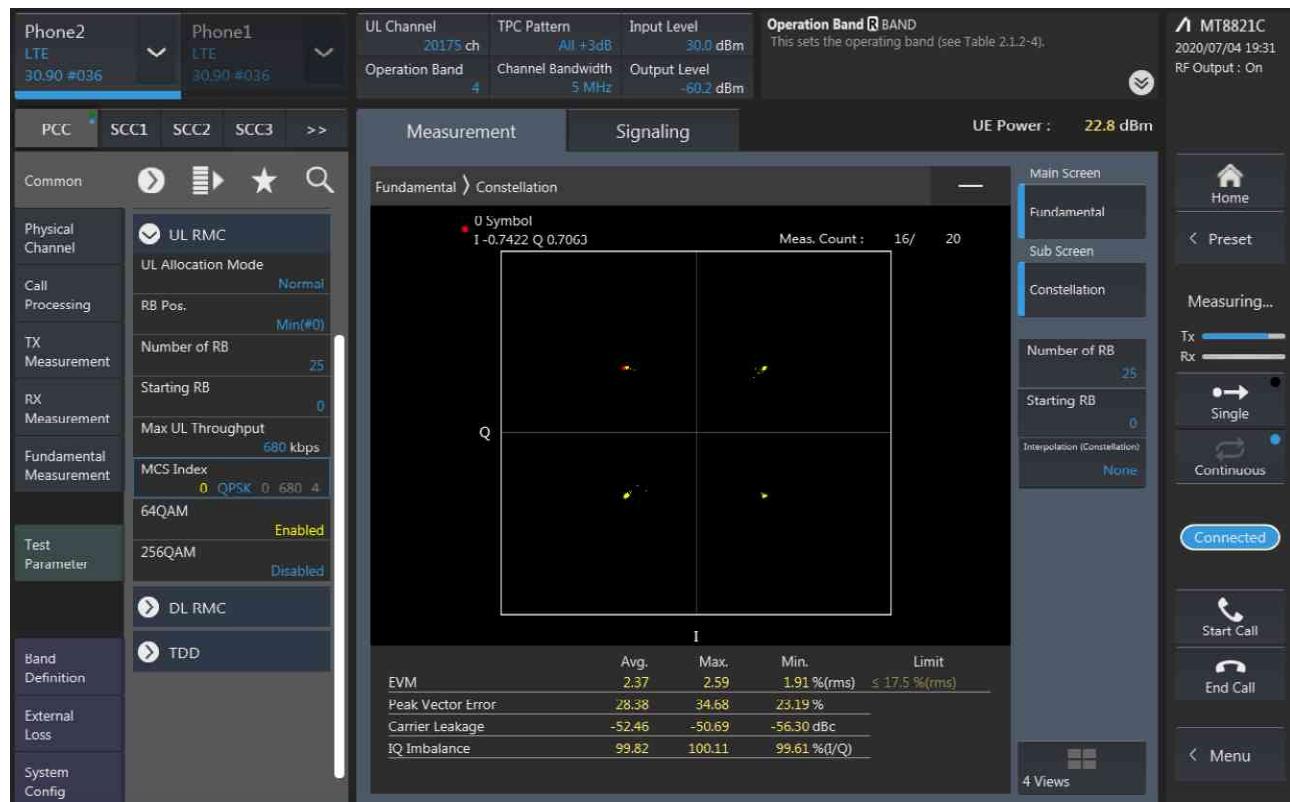


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3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 20MHz

3.1.1. Test Channel = MCH

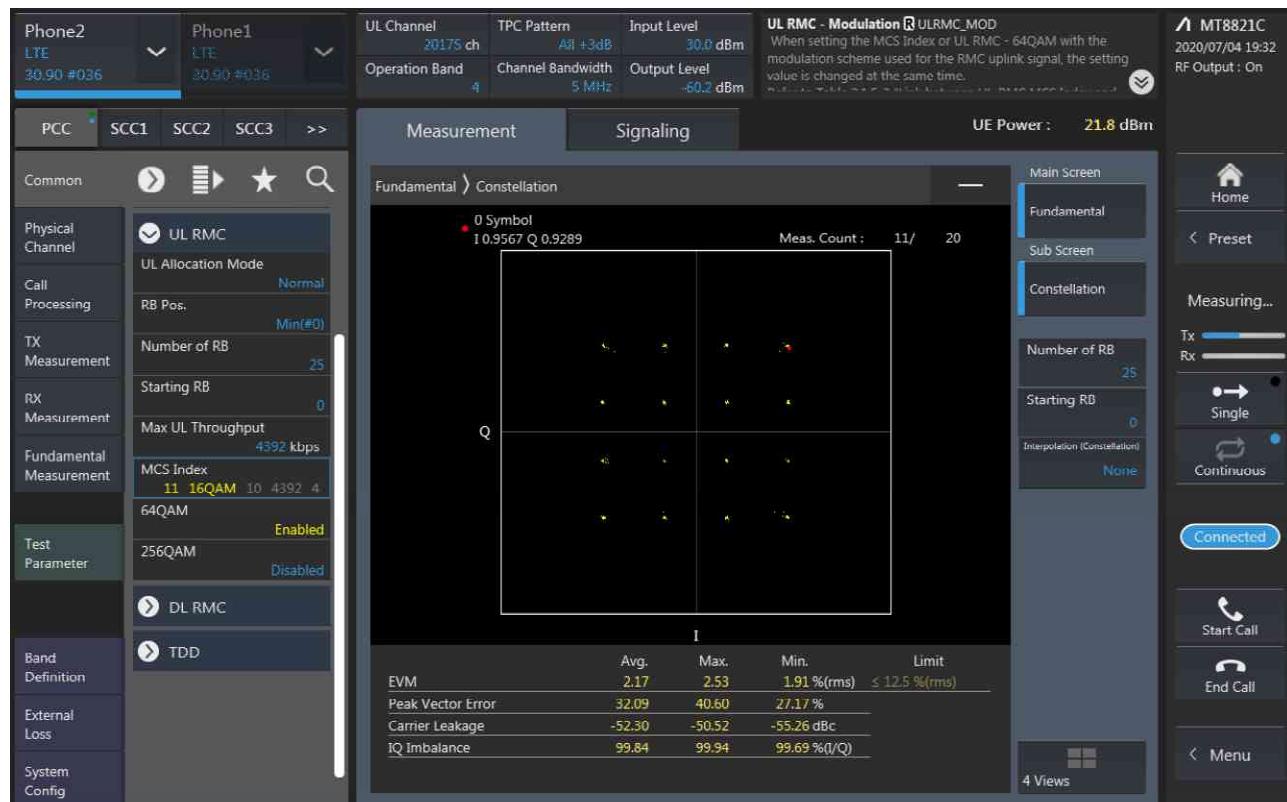


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3.2. Test Mode = LTE /TM2 20MHz

3.2.1. Test Channel = MCH



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4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band4	1.4MHz	QPSK	19957	6RB#0	1.094	1.311	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	1.097	1.293	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	1.094	1.311	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	1.091	1.317	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	1.088	1.284	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	1.091	1.311	PASS
Band4	3MHz	QPSK	19965	15RB#0	2.697	3.018	PASS
Band4	3MHz	QPSK	20175	15RB#0	2.697	3.006	PASS
Band4	3MHz	QPSK	20385	15RB#0	2.697	2.994	PASS
Band4	3MHz	16QAM	19965	15RB#0	2.685	2.964	PASS
Band4	3MHz	16QAM	20175	15RB#0	2.685	2.964	PASS
Band4	3MHz	16QAM	20385	15RB#0	2.685	2.970	PASS
Band4	5MHz	QPSK	19975	25RB#0	4.476	4.920	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.466	4.920	PASS
Band4	5MHz	QPSK	20375	25RB#0	4.476	4.920	PASS
Band4	5MHz	16QAM	19975	25RB#0	4.486	4.990	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.486	4.980	PASS
Band4	5MHz	16QAM	20375	25RB#0	4.496	4.980	PASS
Band4	10MHz	QPSK	20000	50RB#0	8.911	9.720	PASS
Band4	10MHz	QPSK	20175	50RB#0	8.931	9.840	PASS
Band4	10MHz	QPSK	20350	50RB#0	8.911	9.780	PASS
Band4	10MHz	16QAM	20000	50RB#0	8.911	9.780	PASS
Band4	10MHz	16QAM	20175	50RB#0	8.911	9.800	PASS
Band4	10MHz	16QAM	20350	50RB#0	8.911	9.760	PASS
Band4	15MHz	QPSK	20025	75RB#0	13.427	14.760	PASS
Band4	15MHz	QPSK	20175	75RB#0	13.427	14.790	PASS
Band4	15MHz	QPSK	20325	75RB#0	13.397	14.760	PASS
Band4	15MHz	16QAM	20025	75RB#0	13.457	14.640	PASS
Band4	15MHz	16QAM	20175	75RB#0	13.457	14.700	PASS
Band4	15MHz	16QAM	20325	75RB#0	13.397	14.670	PASS
Band4	20MHz	QPSK	20050	100RB#0	17.822	19.400	PASS

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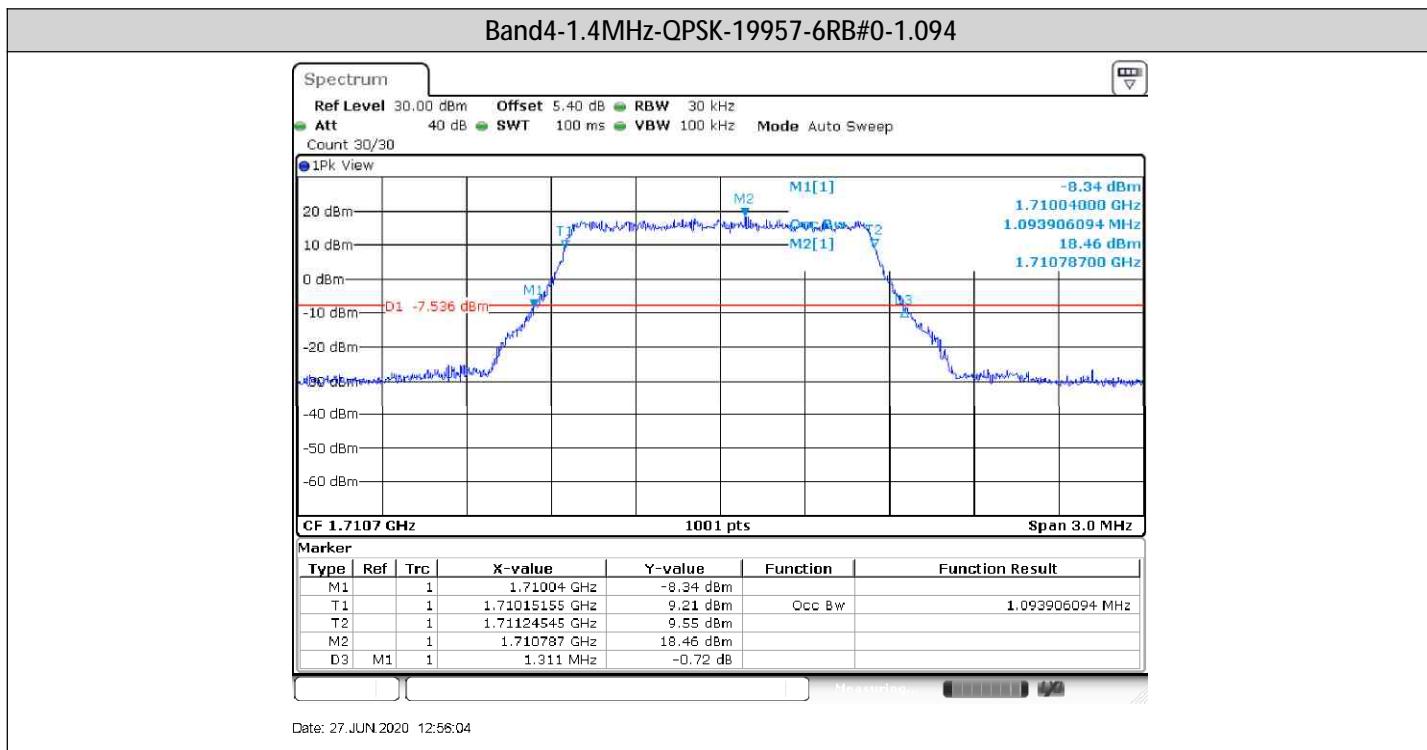
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Band4	20MHz	QPSK	20175	100RB#0	17.862	19.480	PASS
Band4	20MHz	QPSK	20300	100RB#0	17.782	19.400	PASS
Band4	20MHz	16QAM	20050	100RB#0	17.862	19.360	PASS
Band4	20MHz	16QAM	20175	100RB#0	17.862	19.400	PASS
Band4	20MHz	16QAM	20300	100RB#0	17.822	19.440	PASS

4.2. Test Plots



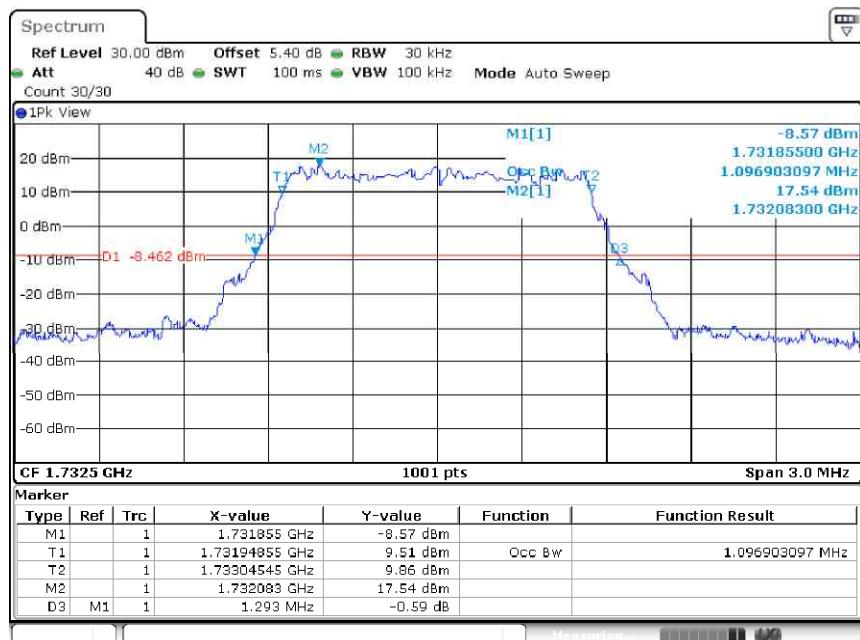
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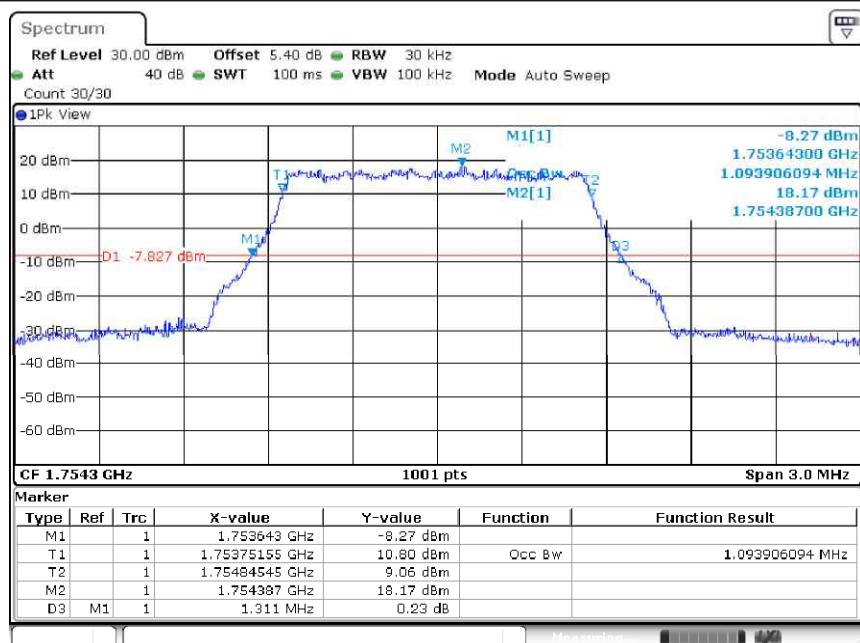
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Band4-1.4MHz-QPSK-20175-6RB#0-1.097



Date: 27.JUN.2020 12:56:30

Band4-1.4MHz-QPSK-20393-6RB#0-1.094



Date: 27.JUN.2020 12:56:55

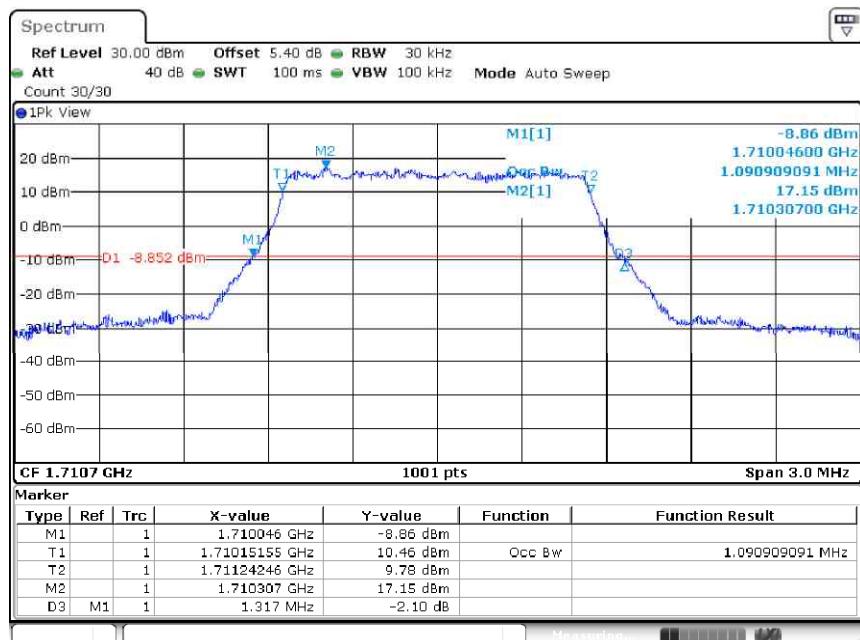
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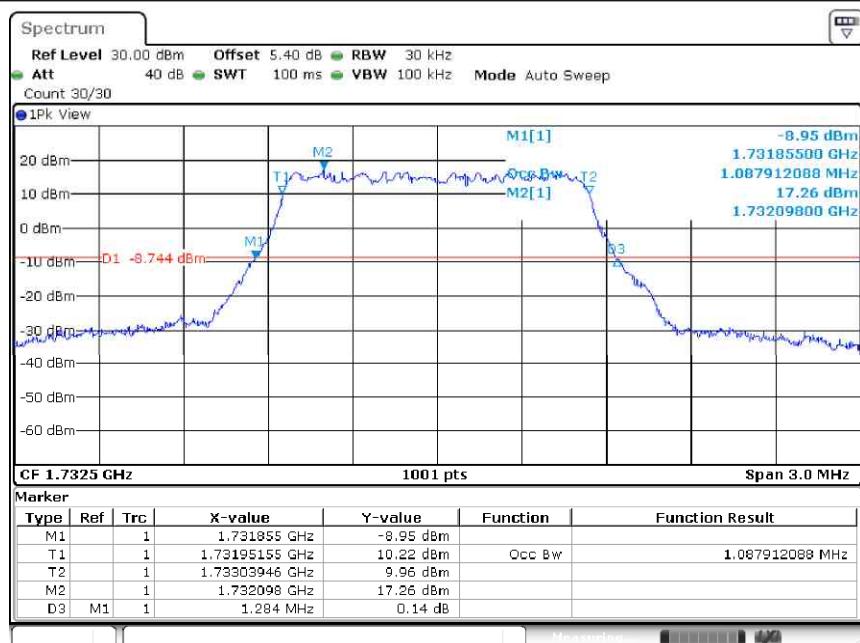
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Band4-1.4MHz-16QAM-19957-6RB#0-1.091



Date: 27.JUN.2020 12:56:17

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



Date: 27.JUN.2020 12:56:42

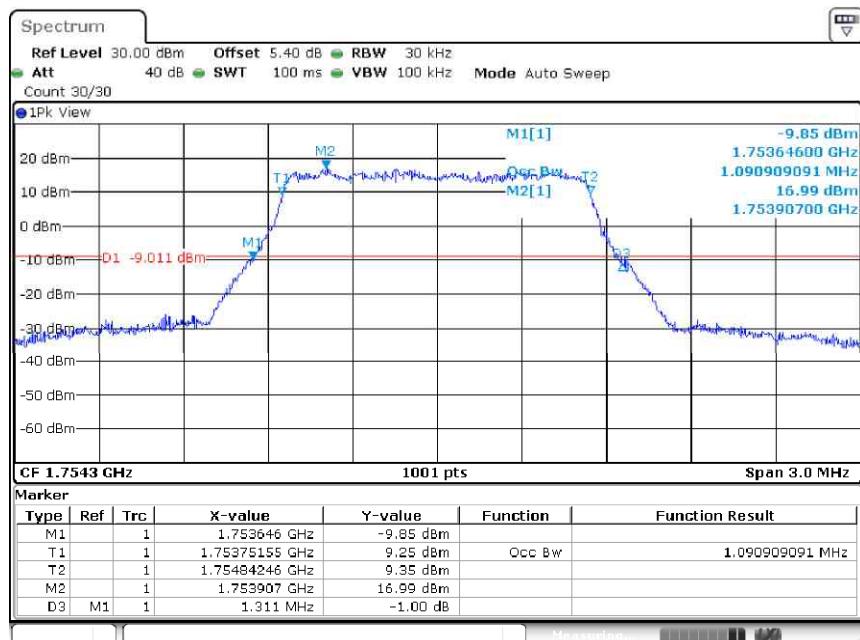
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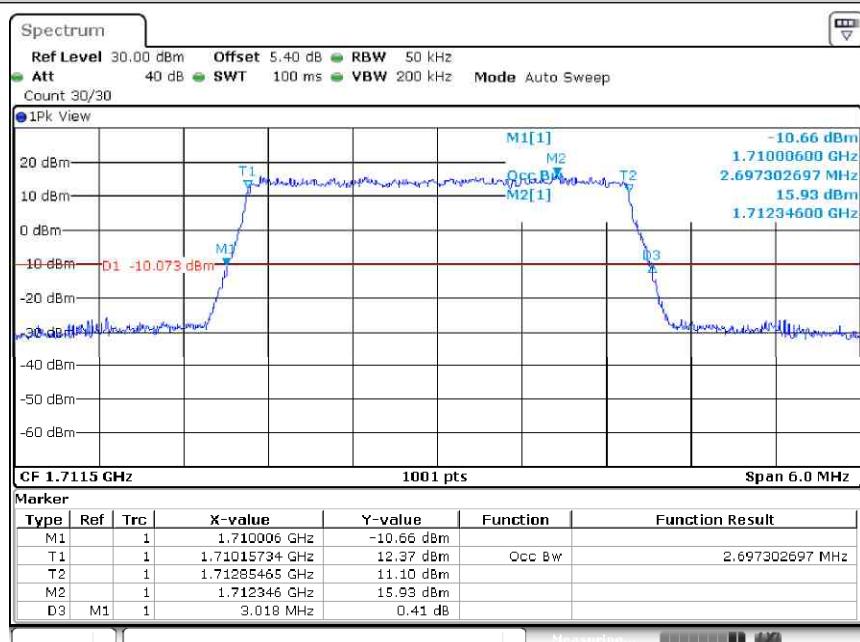
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Band4-1.4MHz-16QAM-20393-6RB#0-1.091



Date: 27.JUN.2020 12:57:08

Band4-3MHz-QPSK-19965-15RB#0-2.697



Date: 27.JUN.2020 12:57:26

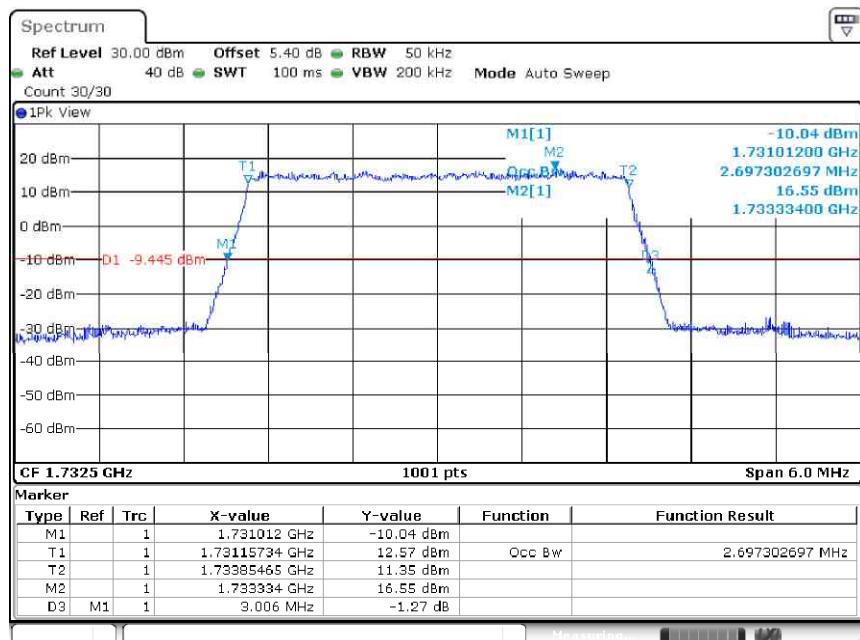
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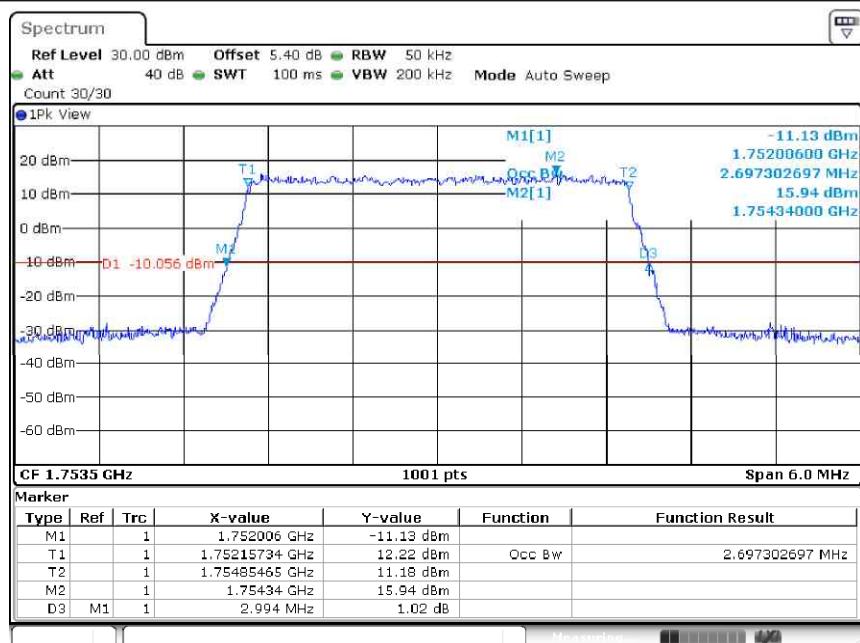
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Band4-3MHz-QPSK-20175-15RB#0-2.697



Date: 27.JUN.2020 12:57:51

Band4-3MHz-QPSK-20385-15RB#0-2.697



Date: 27.JUN.2020 12:58:17

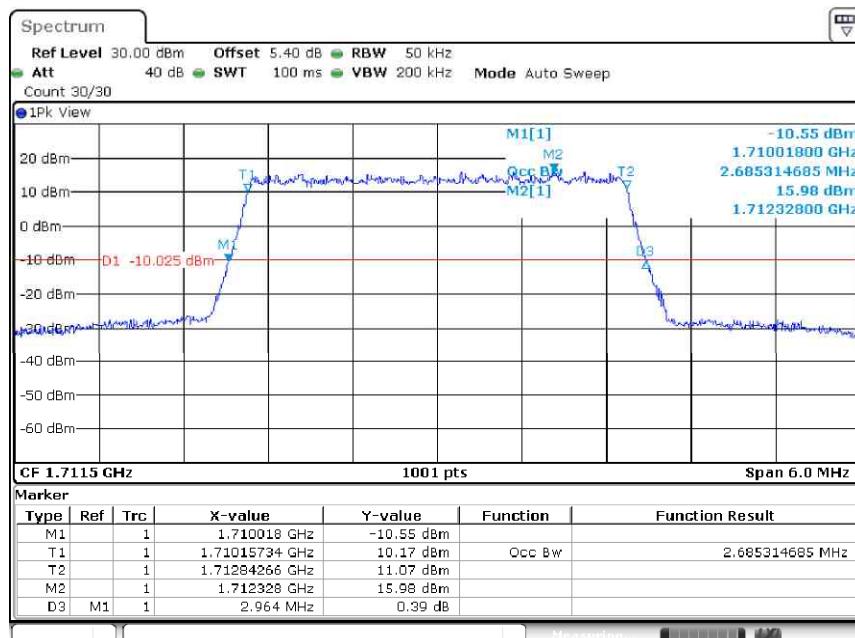
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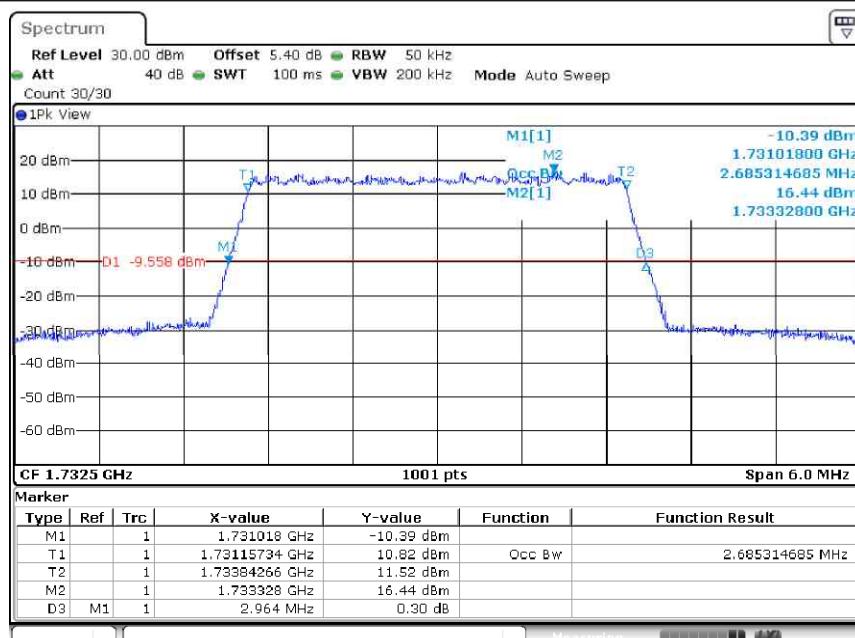
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Band4-3MHz-16QAM-19965-15RB#0-2.685



Date: 27.JUN.2020 12:57:38

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



Date: 27.JUN.2020 12:58:04

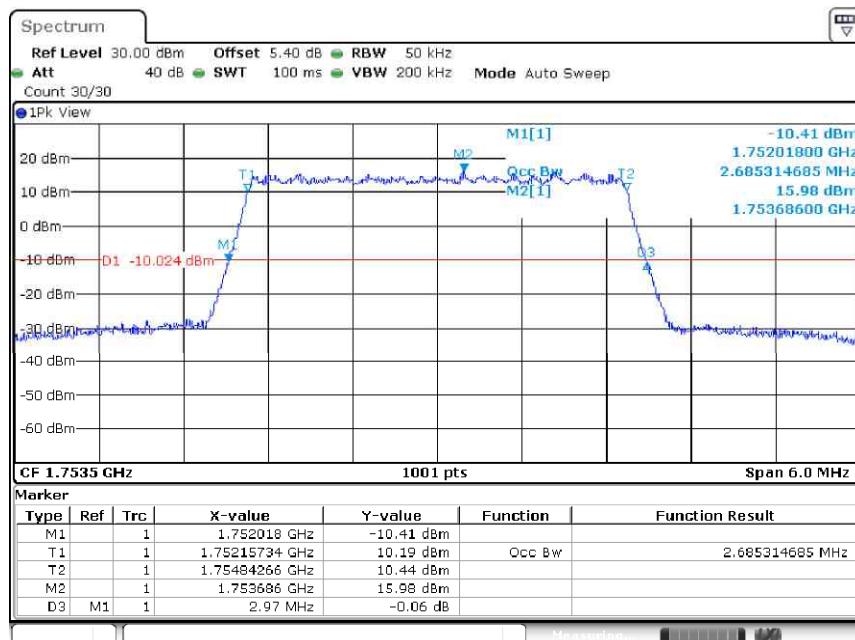
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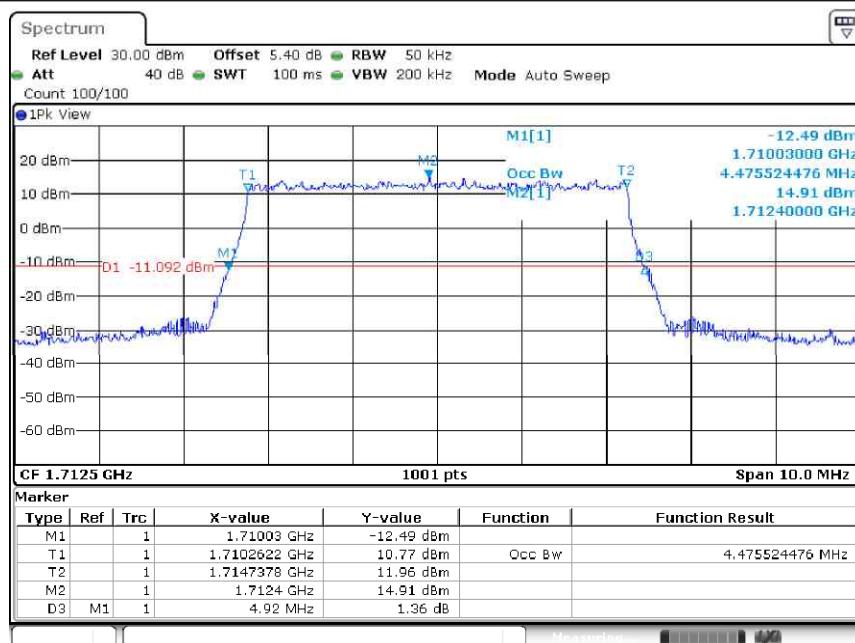
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Band4-3MHz-16QAM-20385-15RB#0-2.685



Date: 27.JUN.2020 12:58:30

Band4-5MHz-QPSK-19975-25RB#0-4.476



Date: 27.JUN.2020 12:58:54

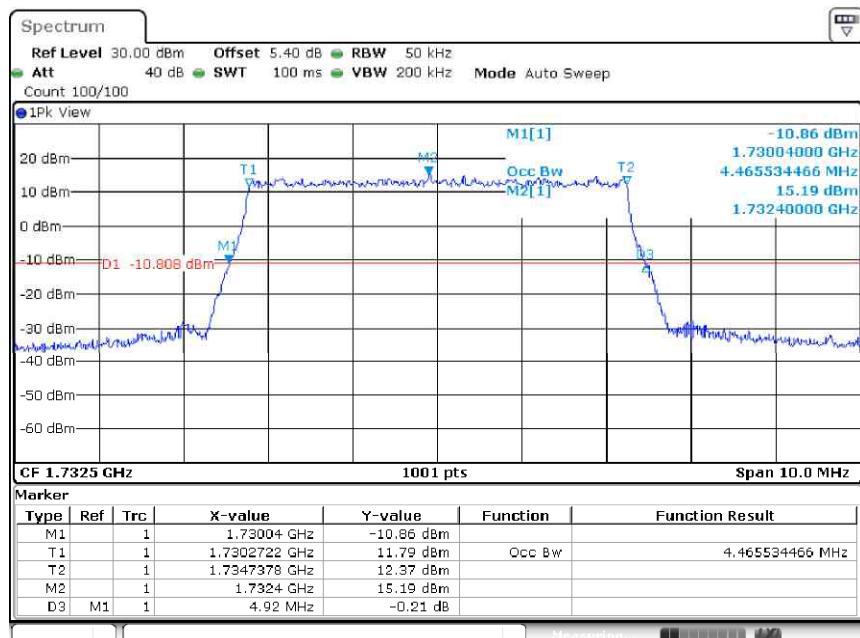
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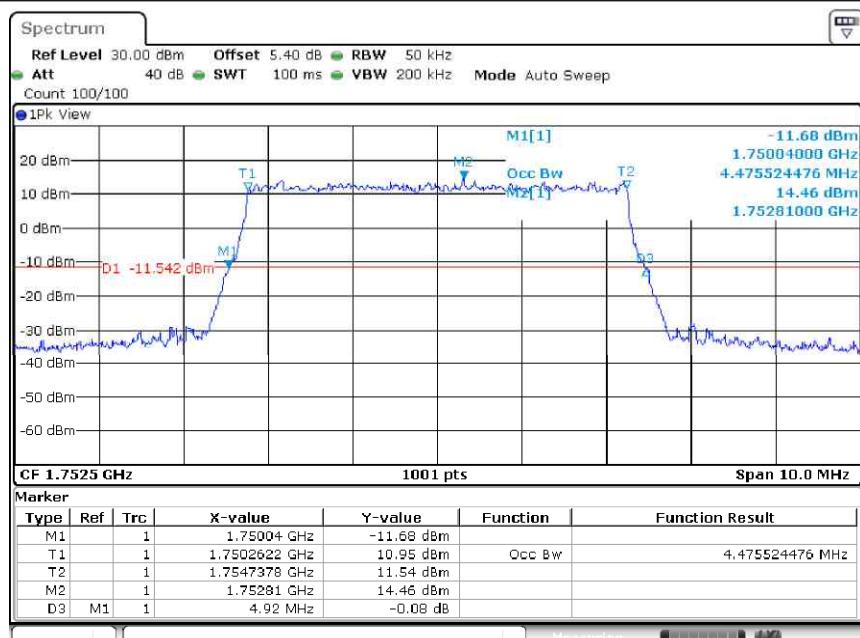
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Band4-5MHz-QPSK-20175-25RB#0-4.466



Date: 27.JUN.2020 12:59:34

Band4-5MHz-QPSK-20375-25RB#0-4.476



Date: 27.JUN.2020 13:00:14

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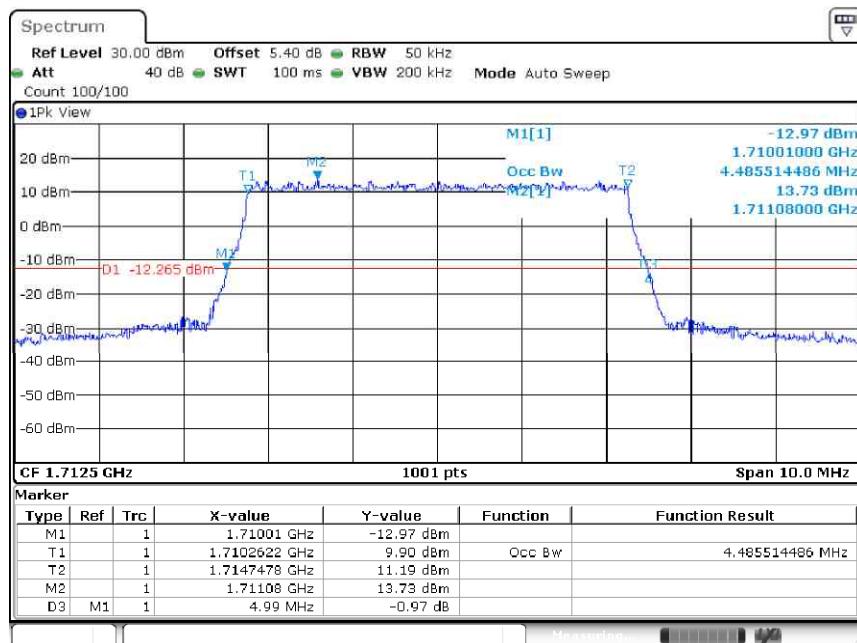
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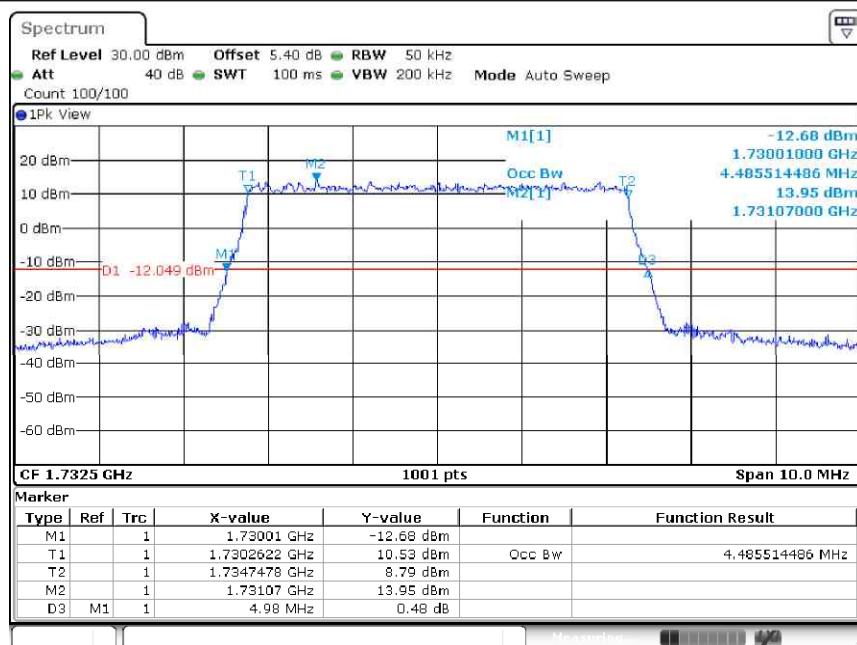


Band4-5MHz-16QAM-19975-25RB#0-4.486



Date: 27.JUN.2020 12:59:14

Band4-5MHz-16QAM-20175-25RB#0-4.486



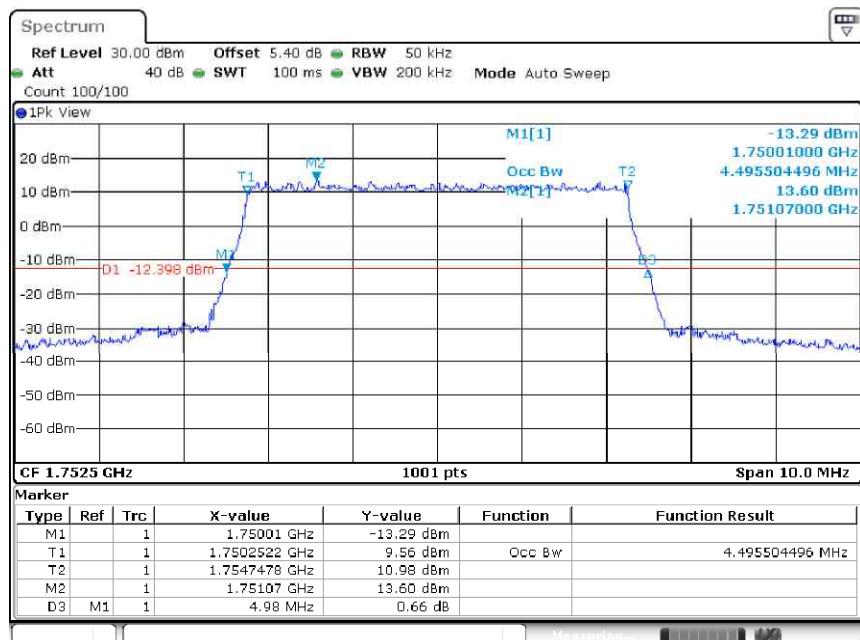
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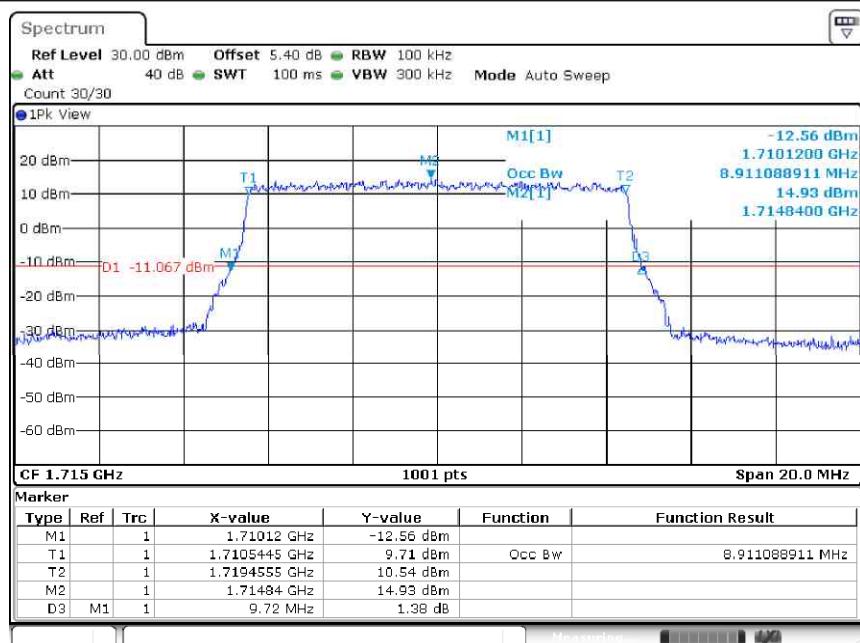


Band4-5MHz-16QAM-20375-25RB#0-4.496



Date: 27.JUN.2020 13:00:33

Band4-10MHz-QPSK-20000-50RB#0-8.911



Date: 27.JUN.2020 13:00:51

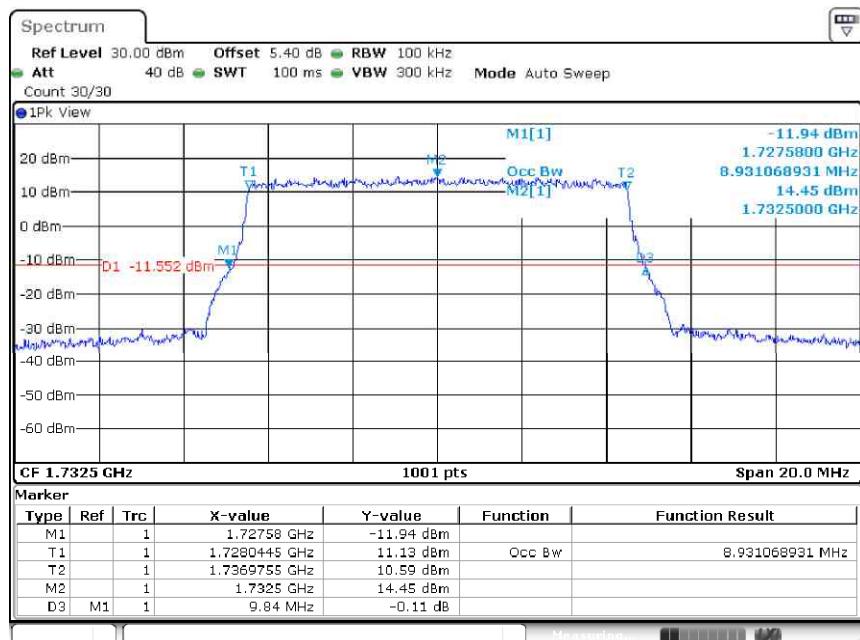
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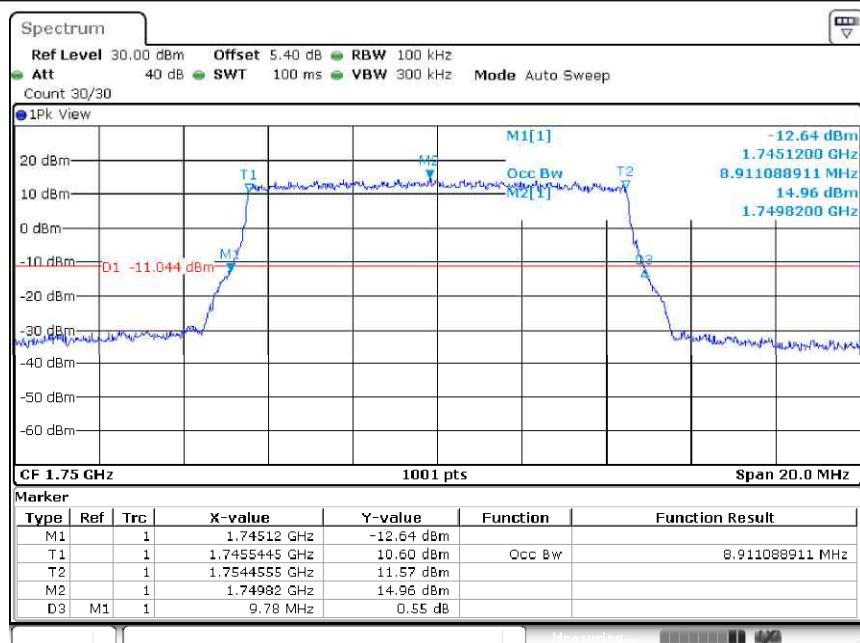
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Band4-10MHz-QPSK-20175-50RB#0-8.931



Date: 27.JUN.2020 13:01:18

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



Date: 27.JUN.2020 13:01:43

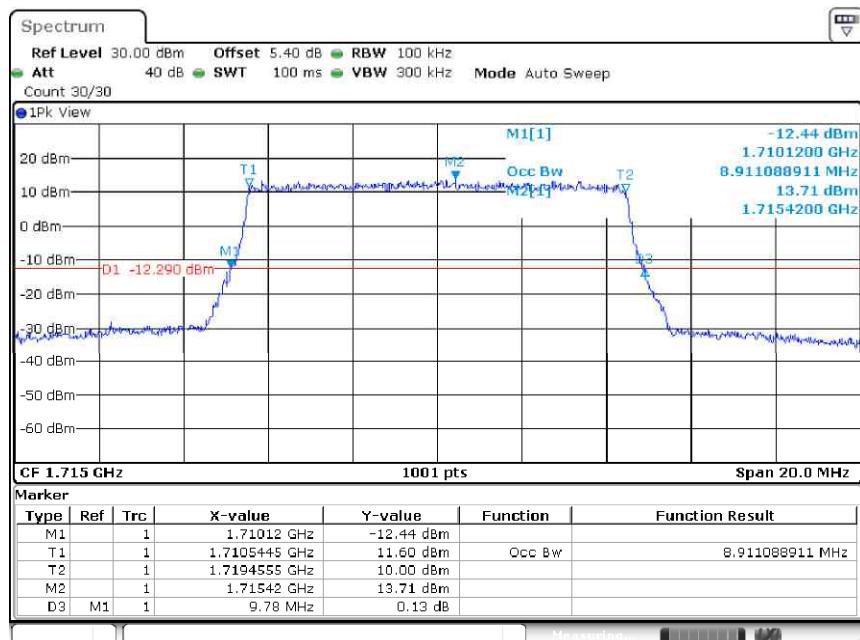
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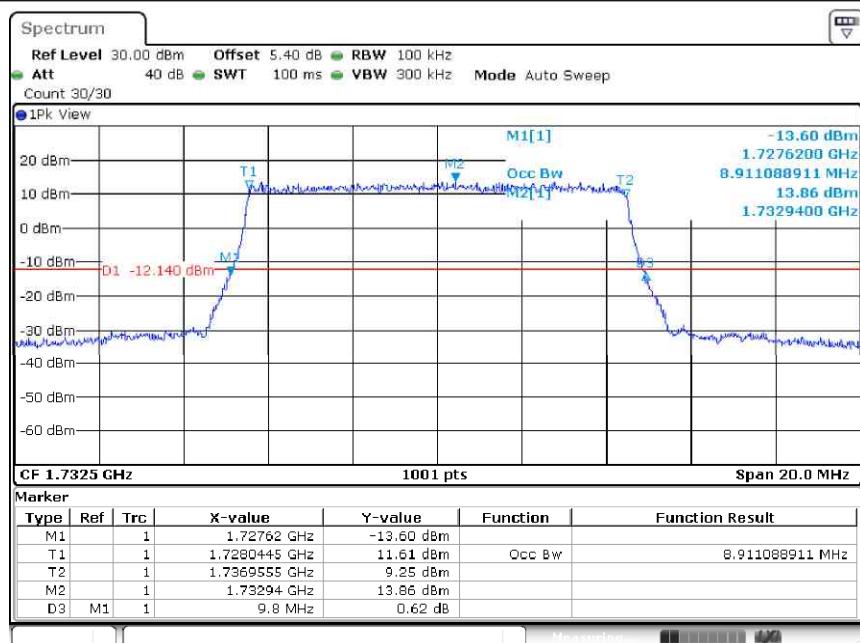
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Band4-10MHz-16QAM-20000-50RB#0-8.911



Date: 27.JUN.2020 13:01:04

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



Date: 27.JUN.2020 13:01:30

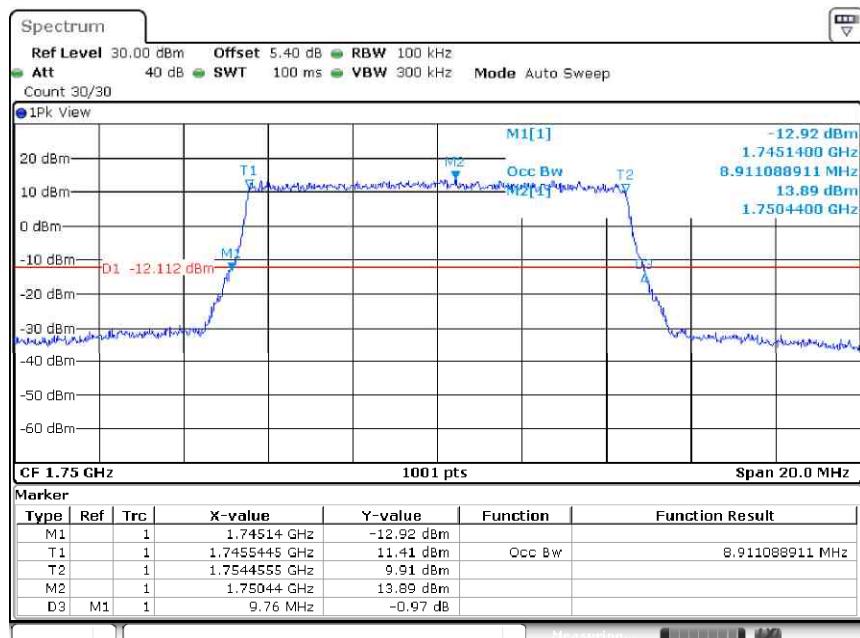
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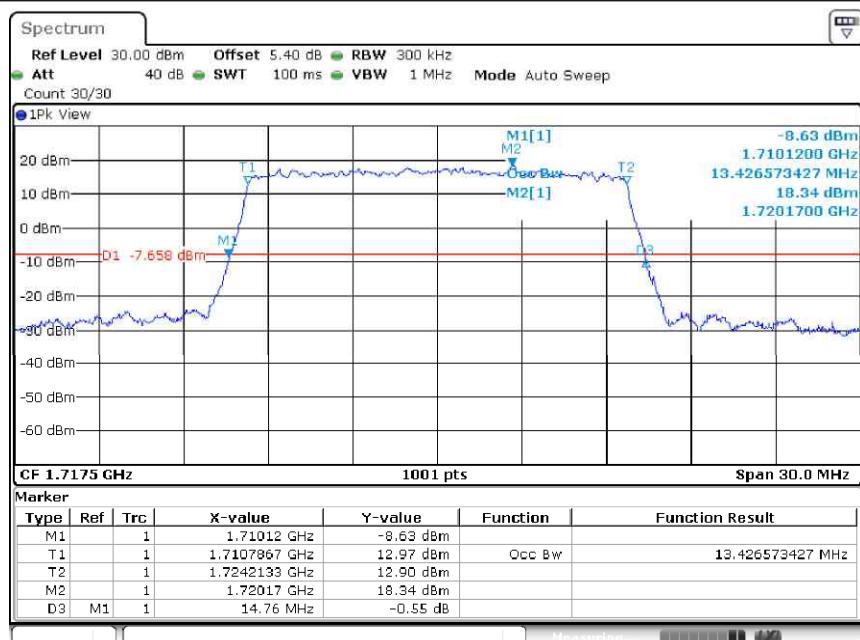
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Band4-10MHz-16QAM-20350-50RB#0-8.911



Date: 27.JUN.2020 13:01:56

Band4-15MHz-QPSK-20025-75RB#0-13.427



Date: 27.JUN.2020 13:02:13

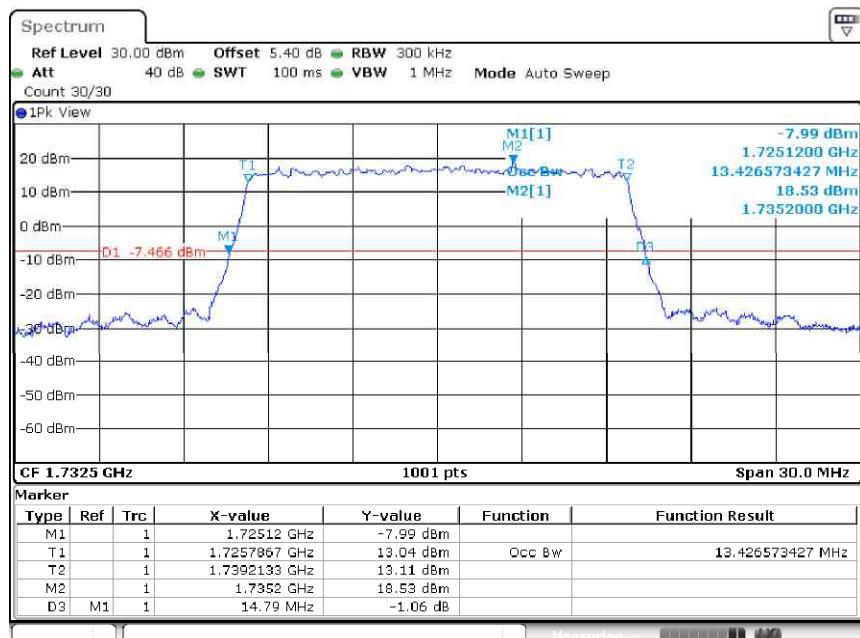
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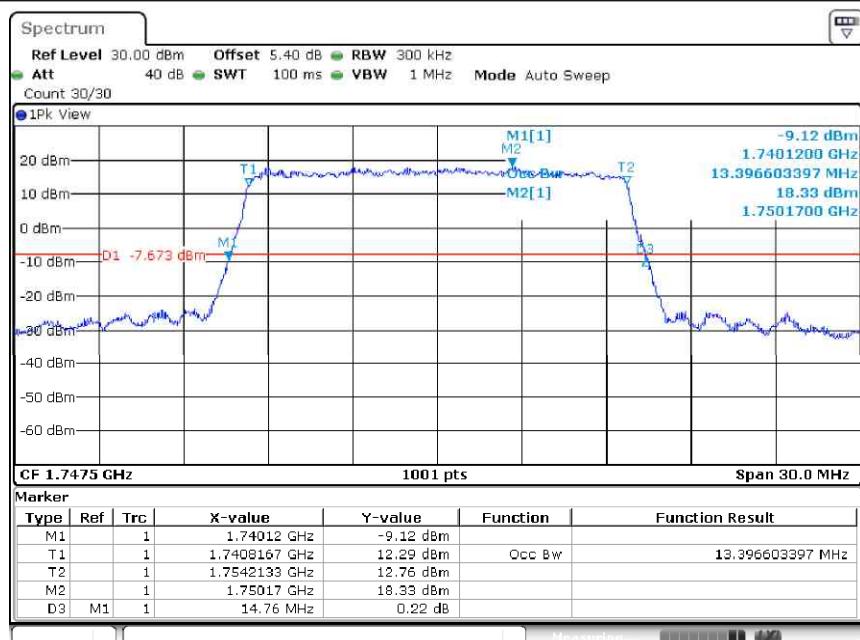
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Band4-15MHz-QPSK-20175-75RB#0-13.427



Date: 27.JUN.2020 13:02:39

Band4-15MHz-QPSK-20325-75RB#0-13.397



Date: 27.JUN.2020 13:03:05

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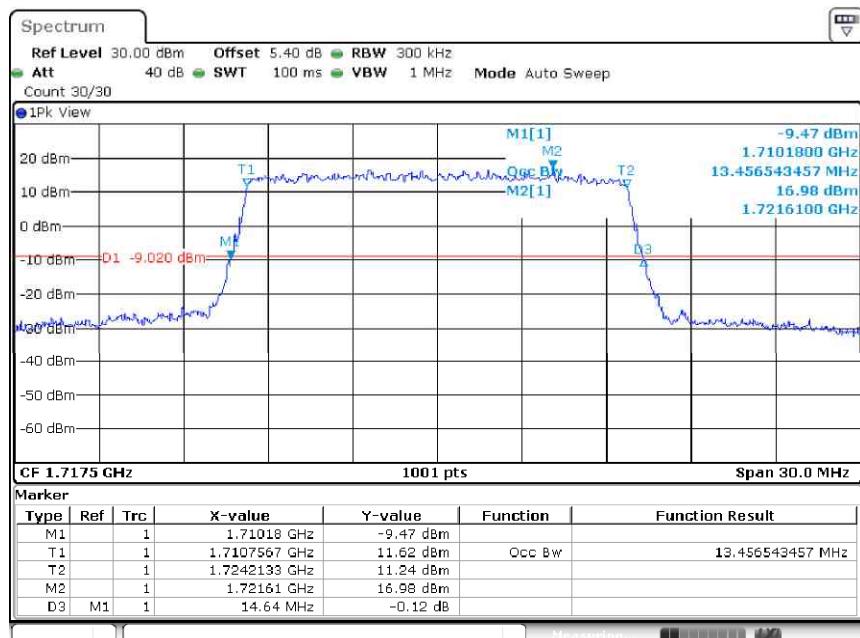
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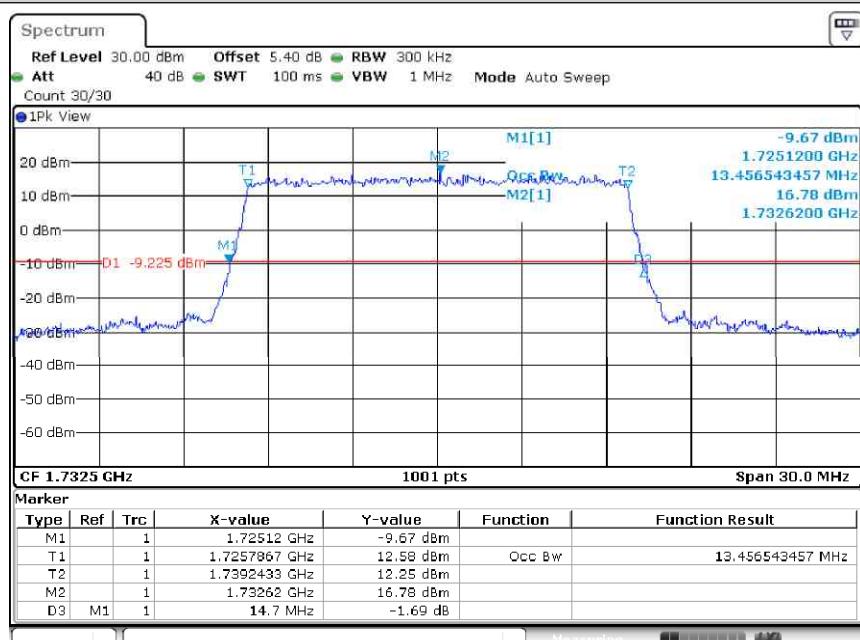
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Band4-15MHz-16QAM-20025-75RB#0-13.457



Band4-15MHz-16QAM-20175-75RB#0-13.457

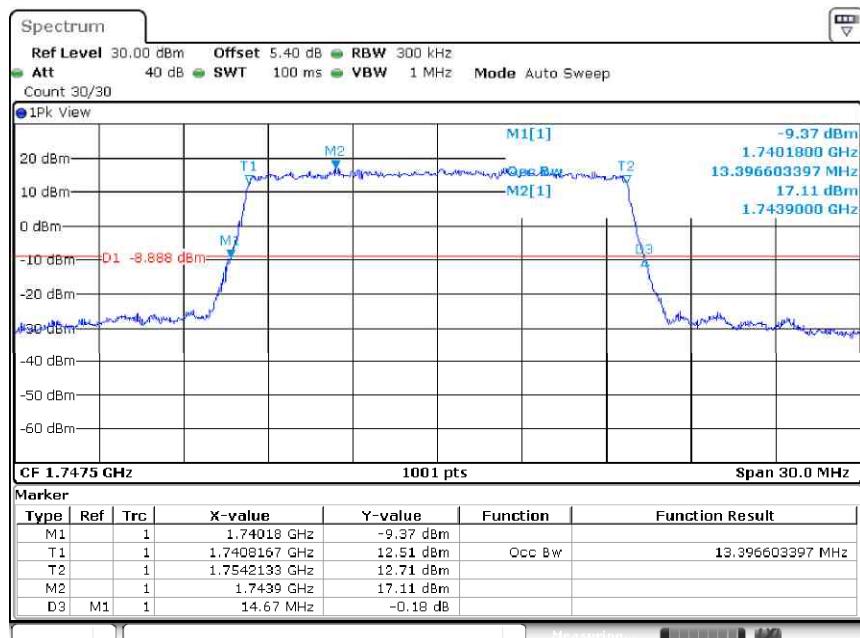


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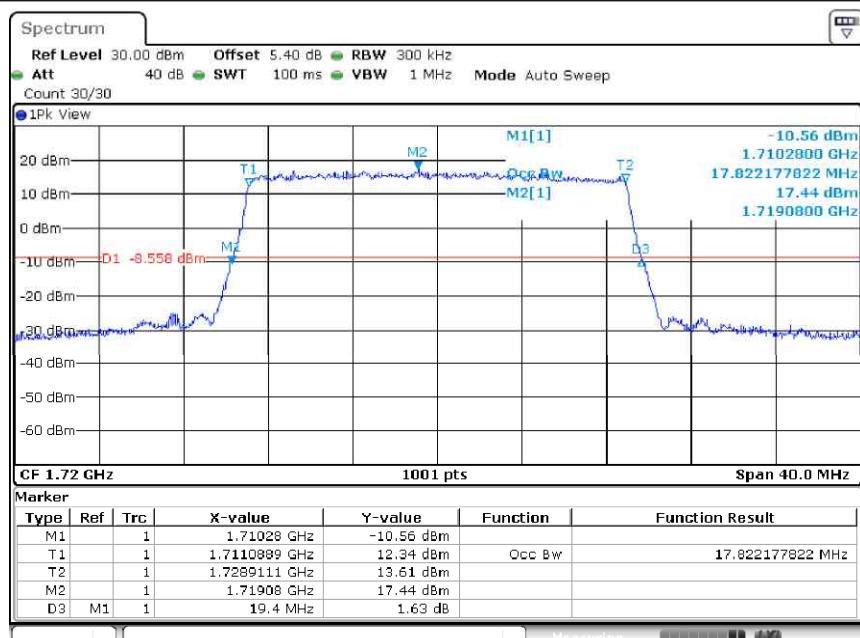


Band4-15MHz-16QAM-20325-75RB#0-13.397



Date: 27.JUN.2020 13:03:18

Band4-20MHz-QPSK-20050-100RB#0-17.822



Date: 27.JUN.2020 13:03:36

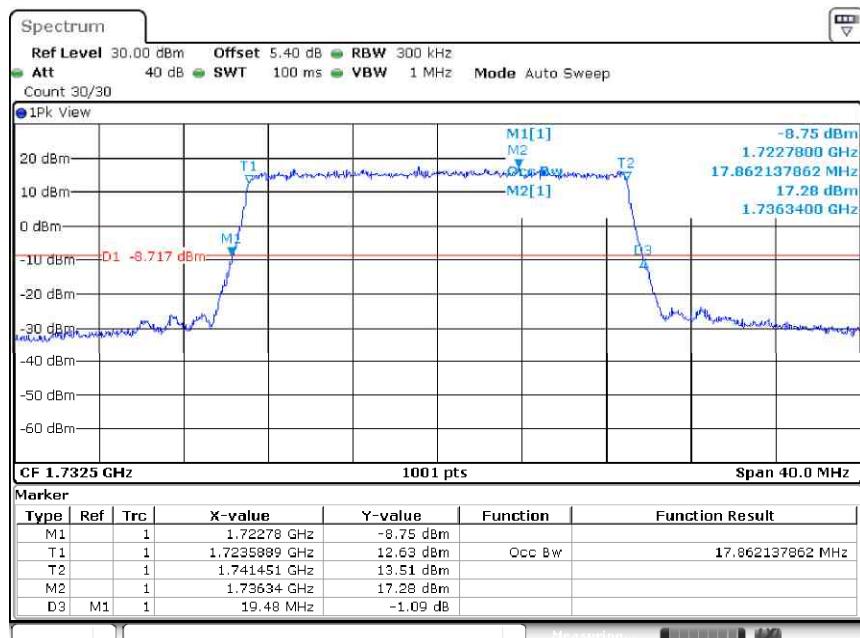
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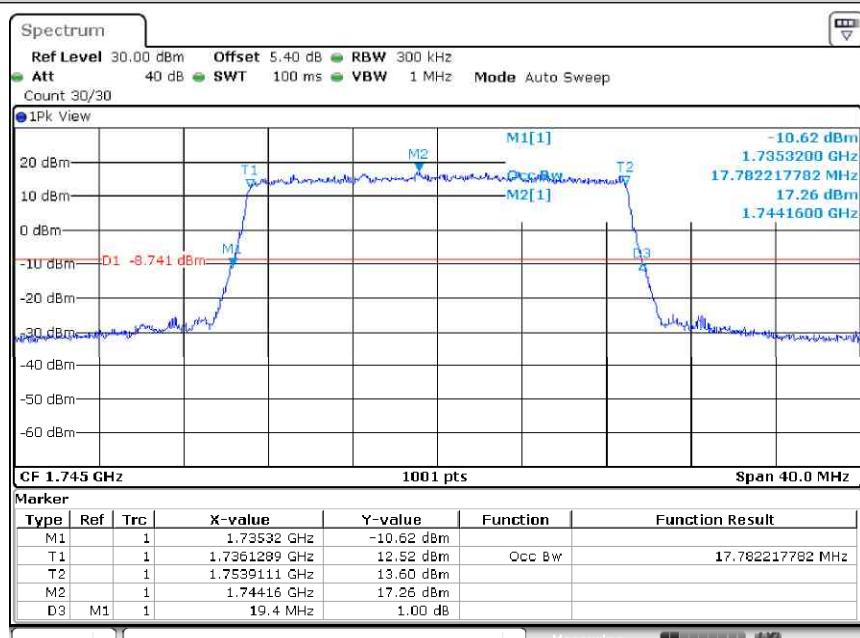
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Band4-20MHz-QPSK-20175-100RB#0-17.862



Date: 27.JUN.2020 13:04:02

Band4-20MHz-QPSK-20300-100RB#0-17.782



Date: 27.JUN.2020 13:04:28

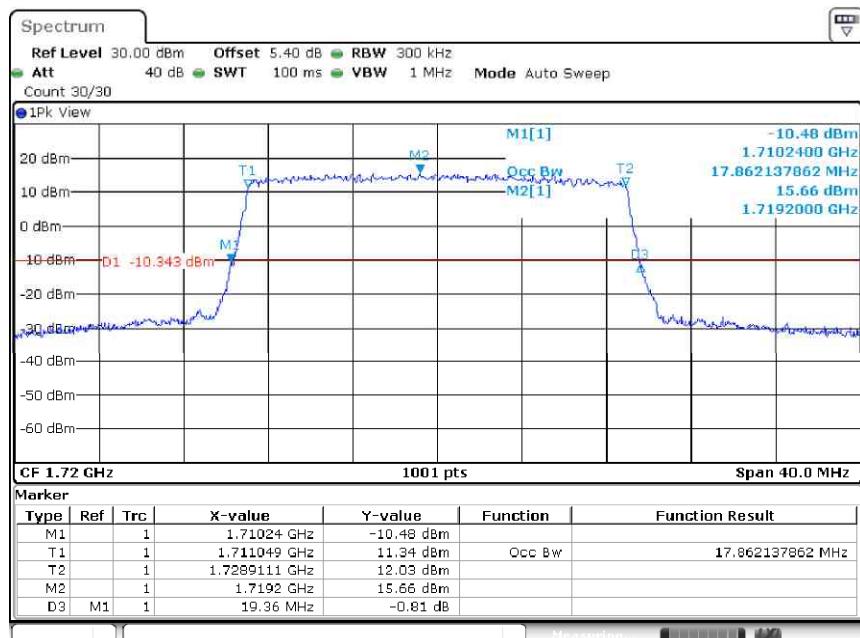
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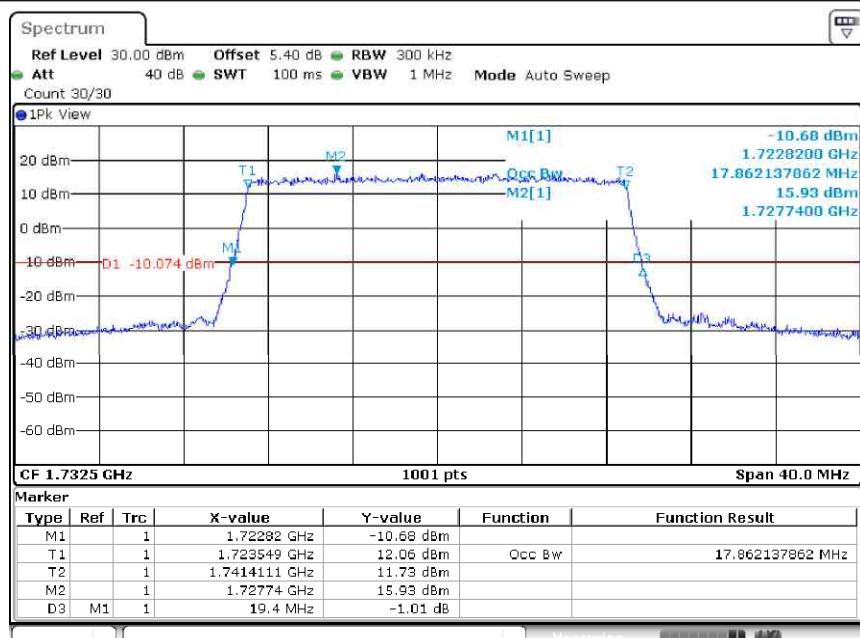
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Band4-20MHz-16QAM-20050-100RB#0-17.862



Date: 27.JUN.2020 13:03:49

Band4-20MHz-16QAM-20175-100RB#0-17.862



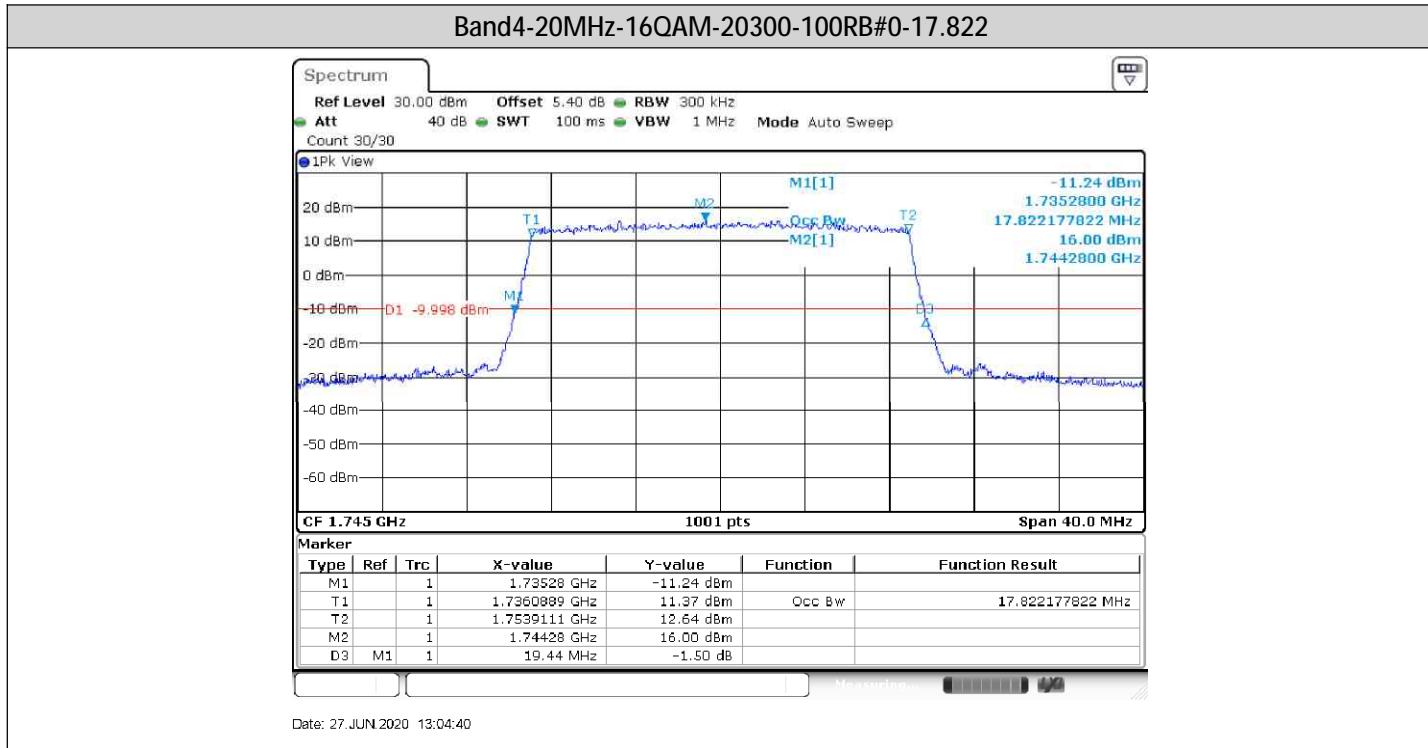
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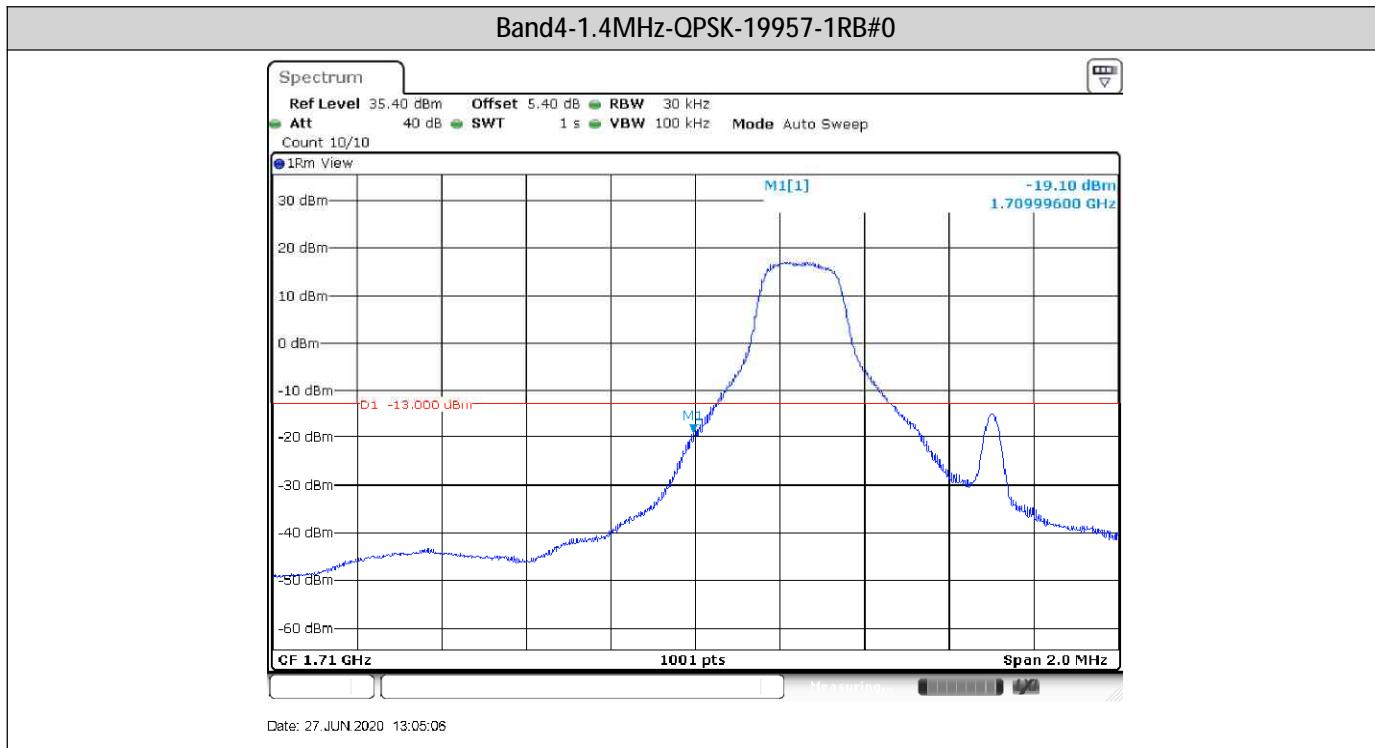
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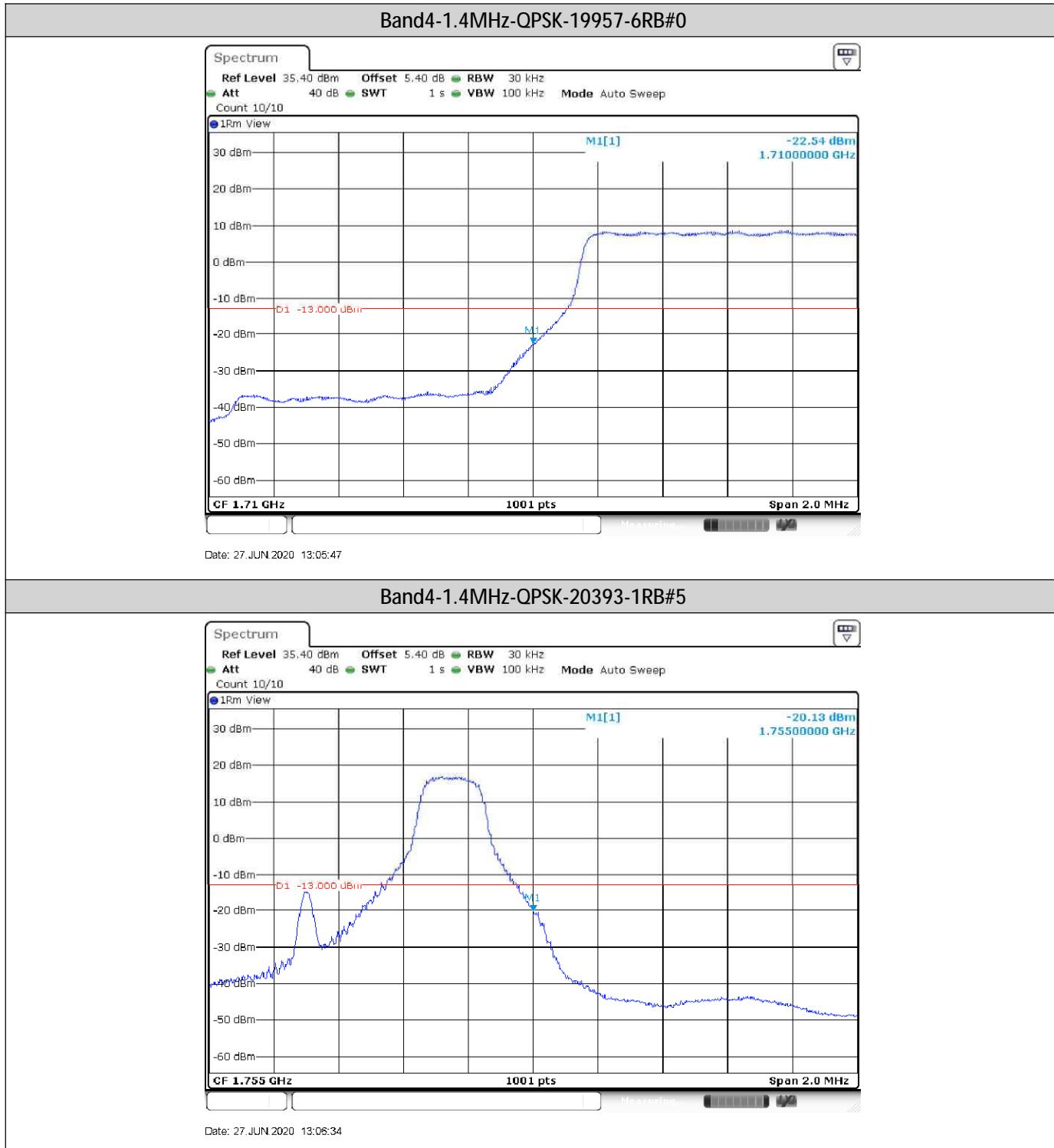
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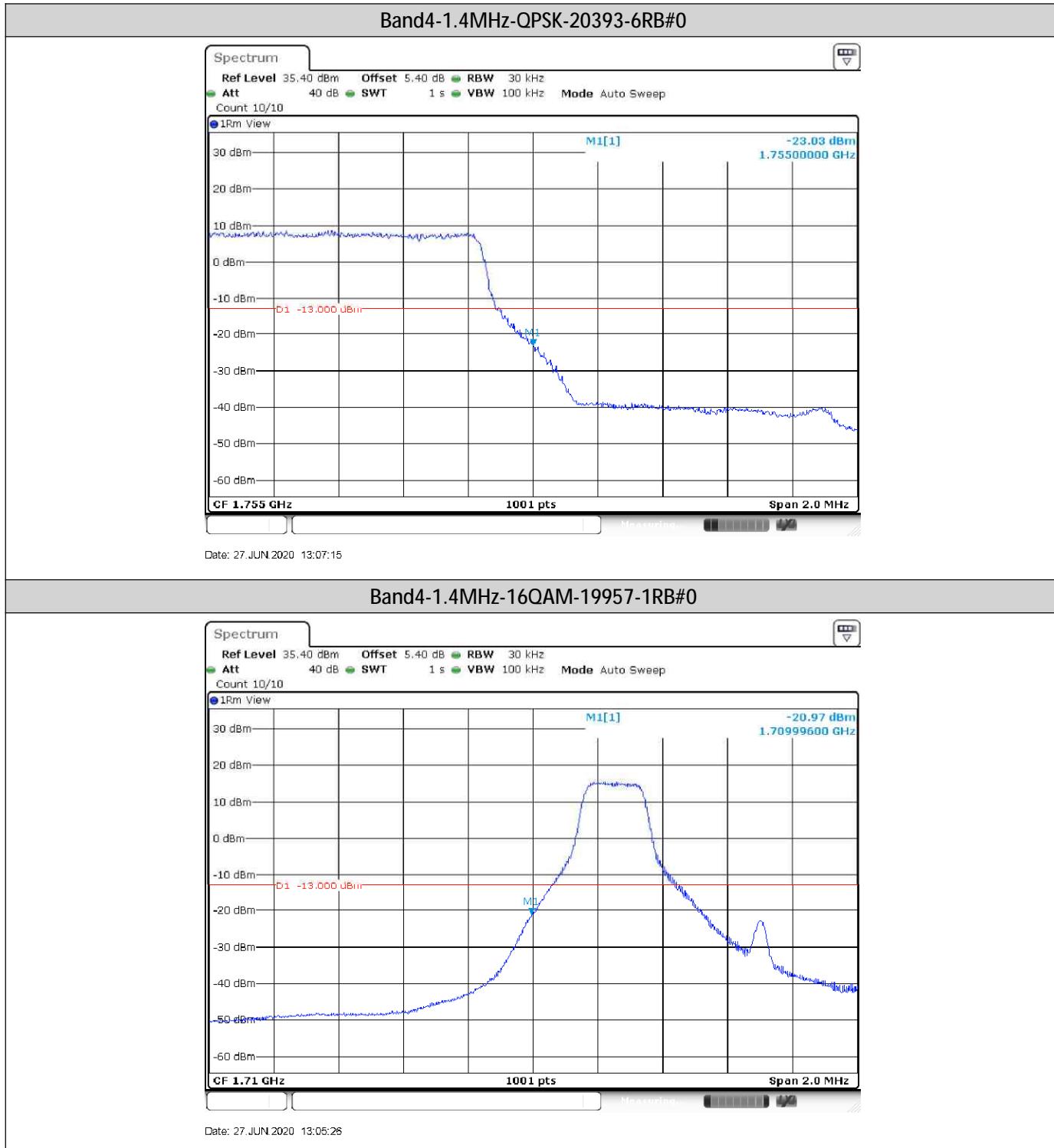




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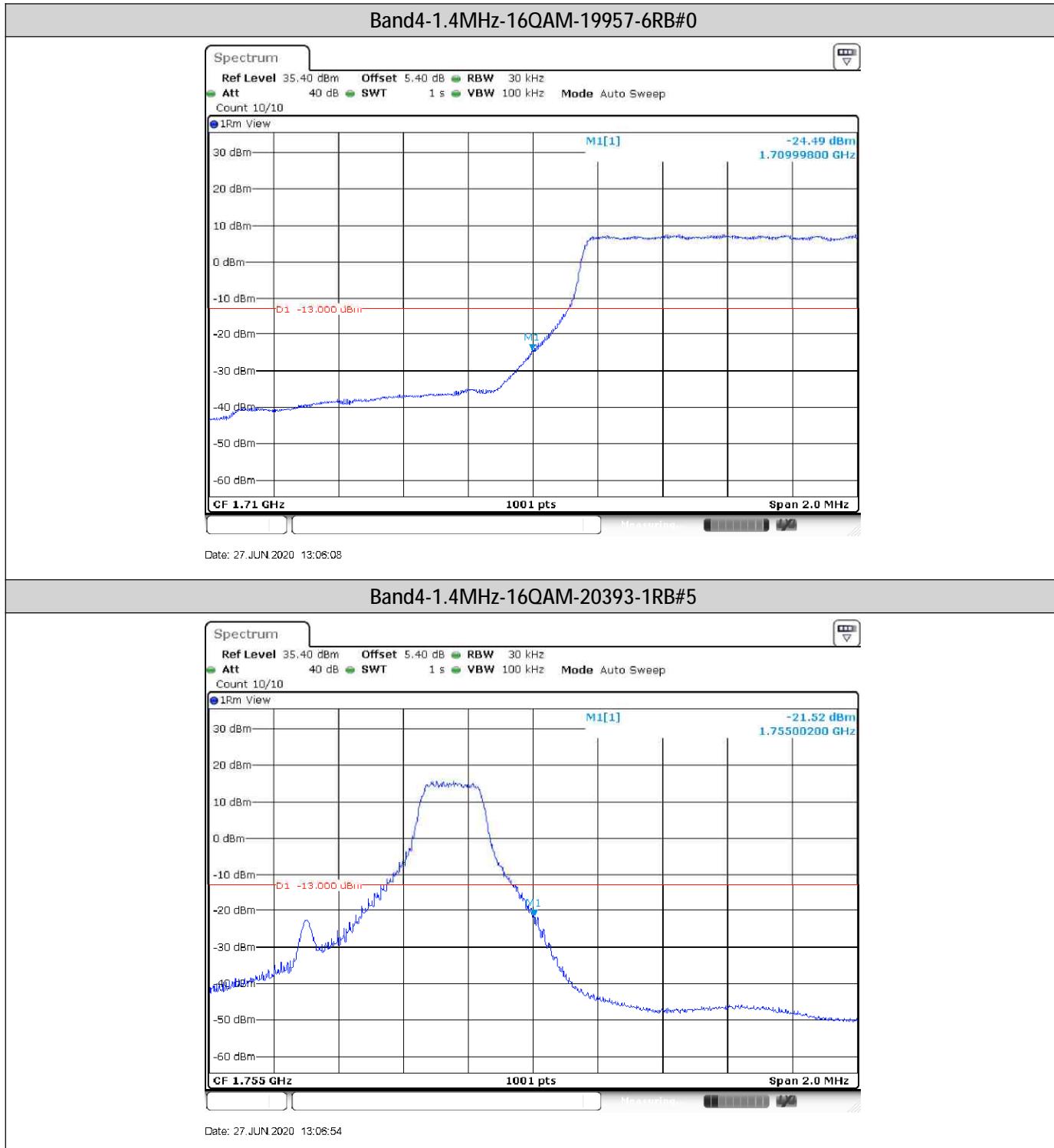


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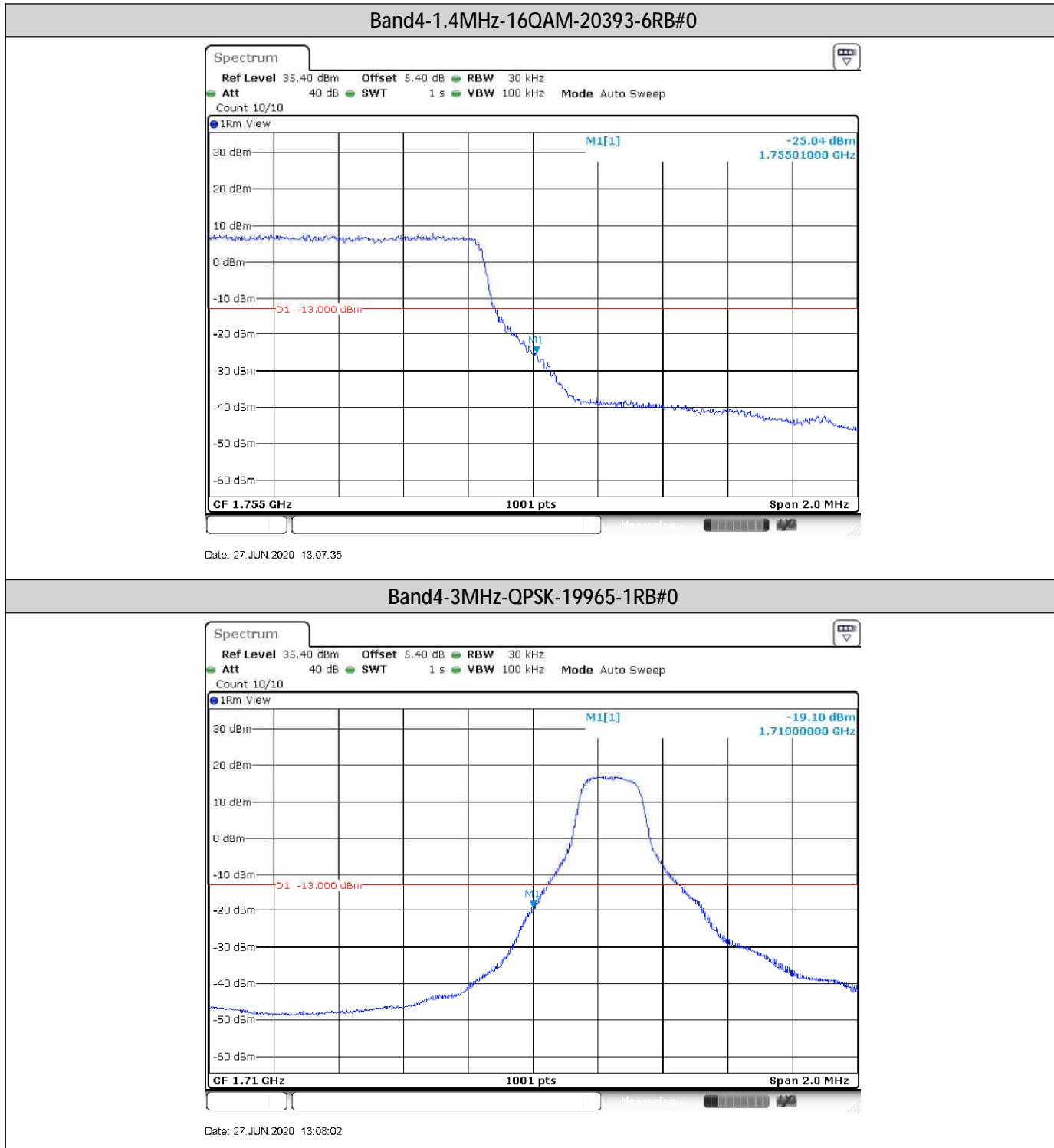


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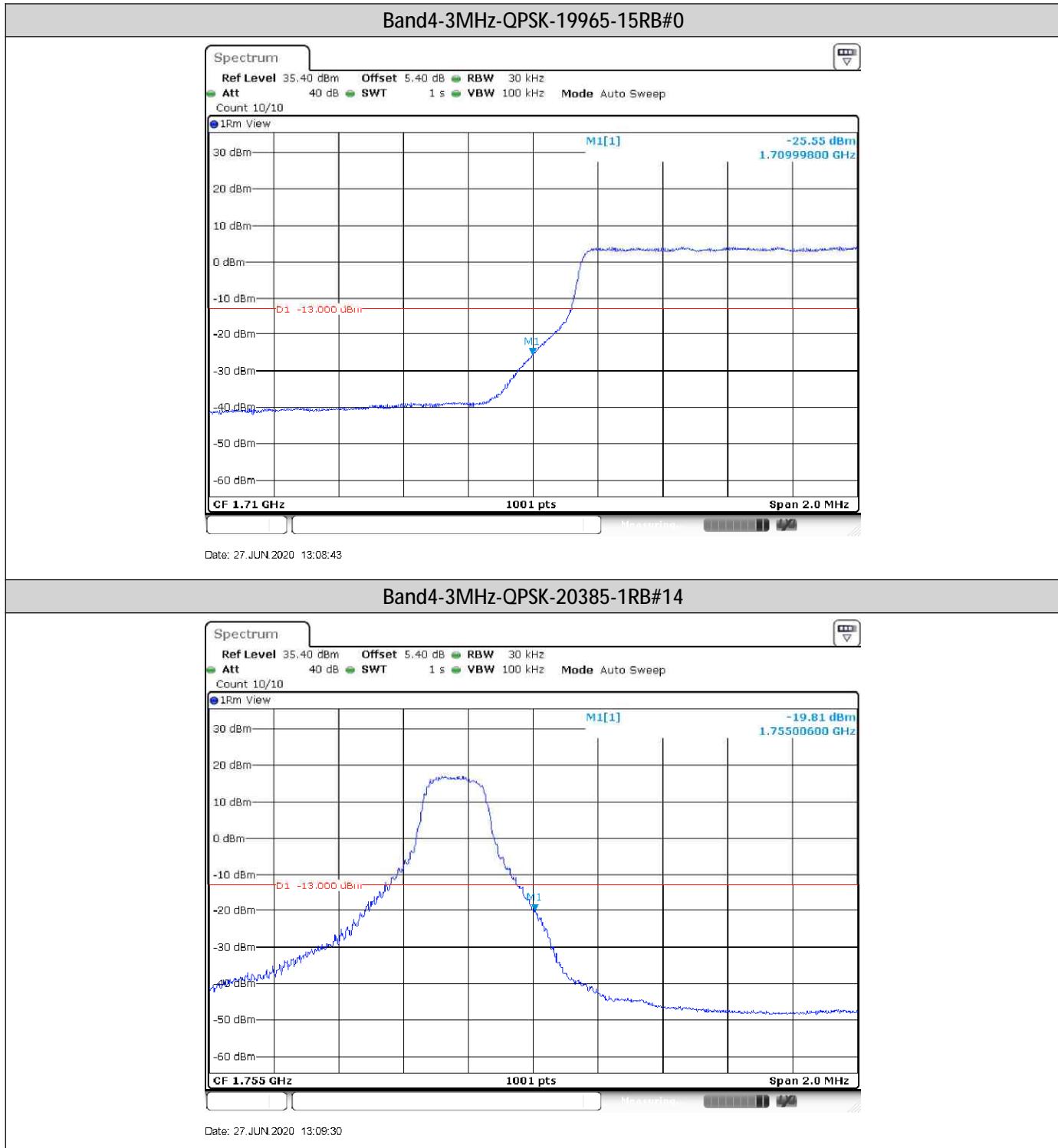
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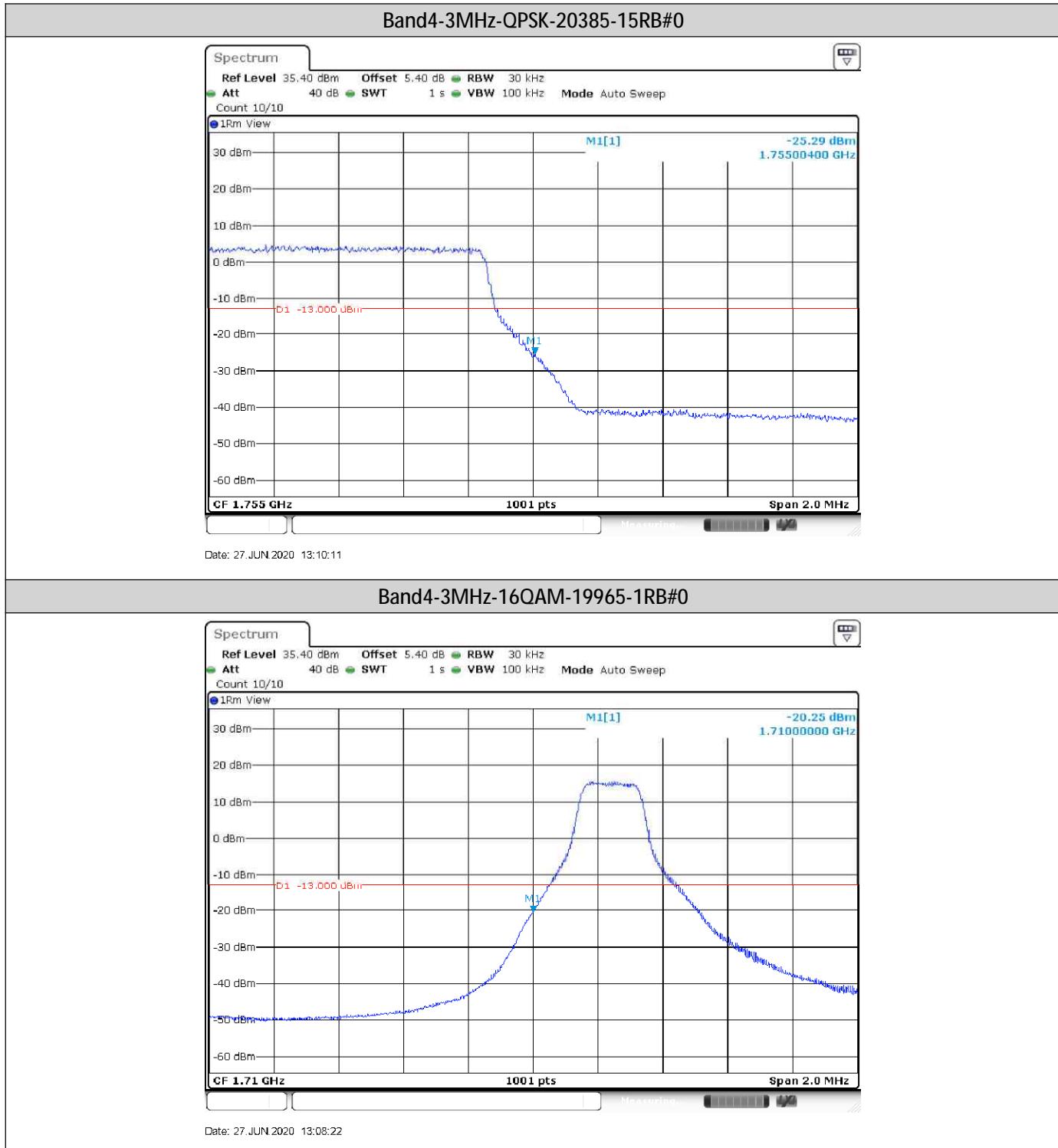


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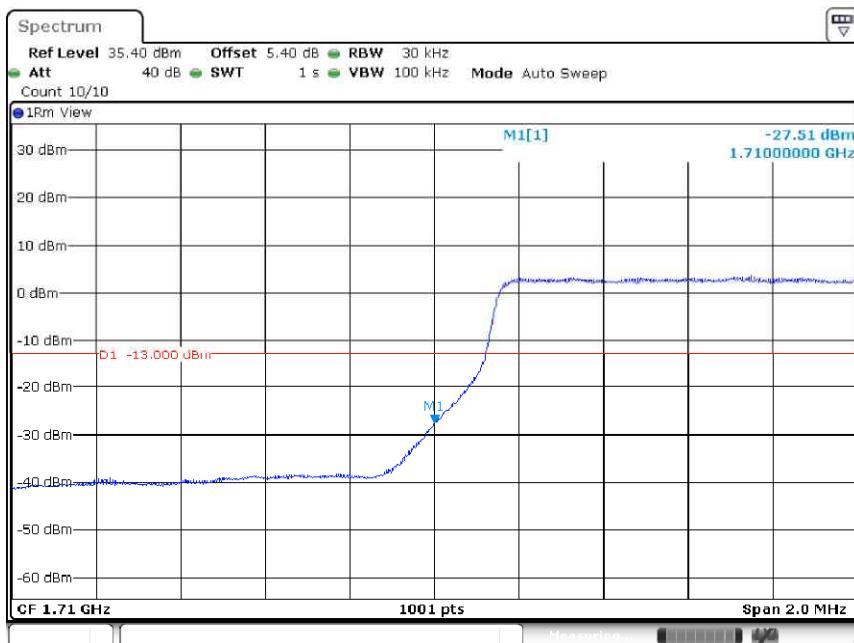
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Band4-3MHz-16QAM-19965-15RB#0



Date: 27.JUN.2020 13:09:04

Band4-3MHz-16QAM-20385-1RB#14



Date: 27.JUN.2020 13:09:50

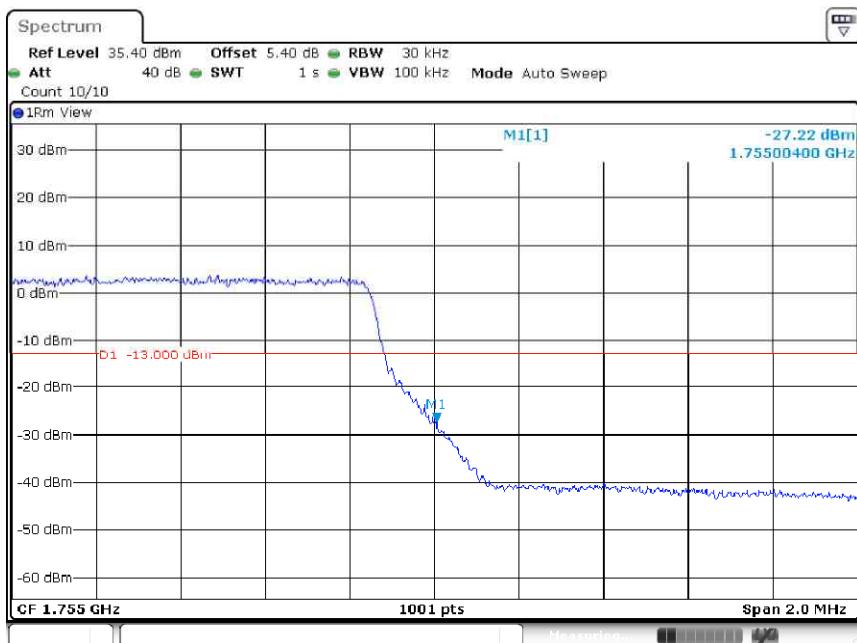
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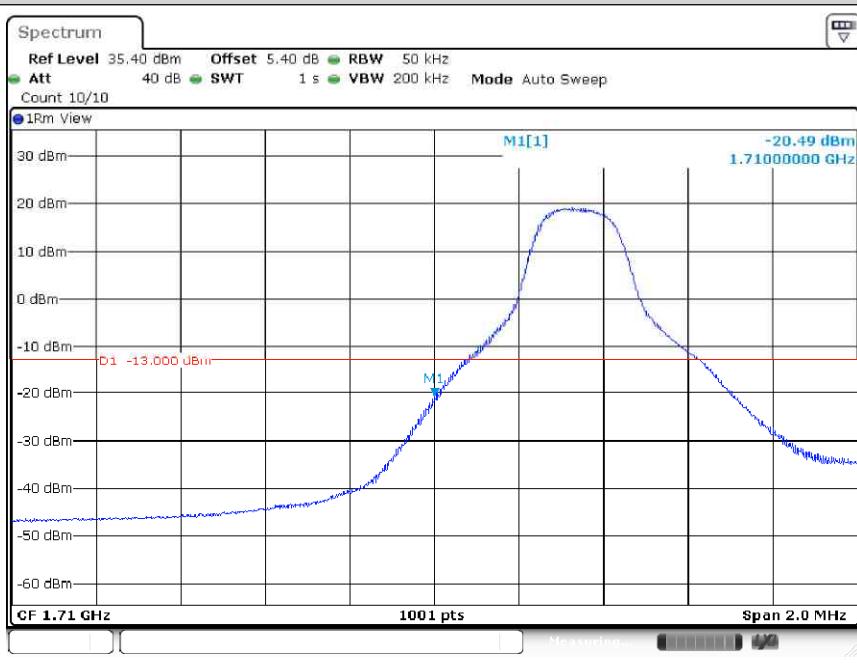




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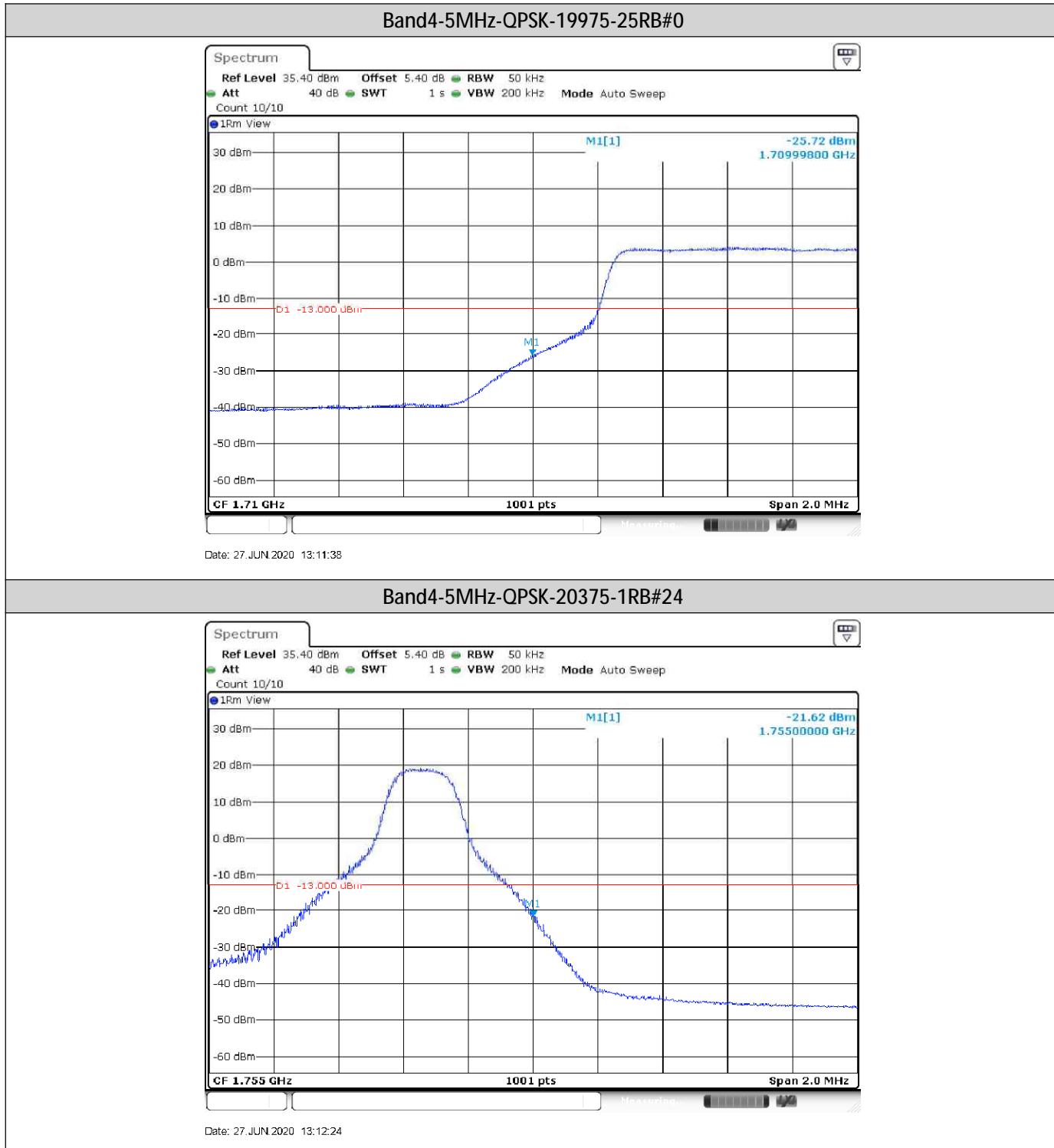
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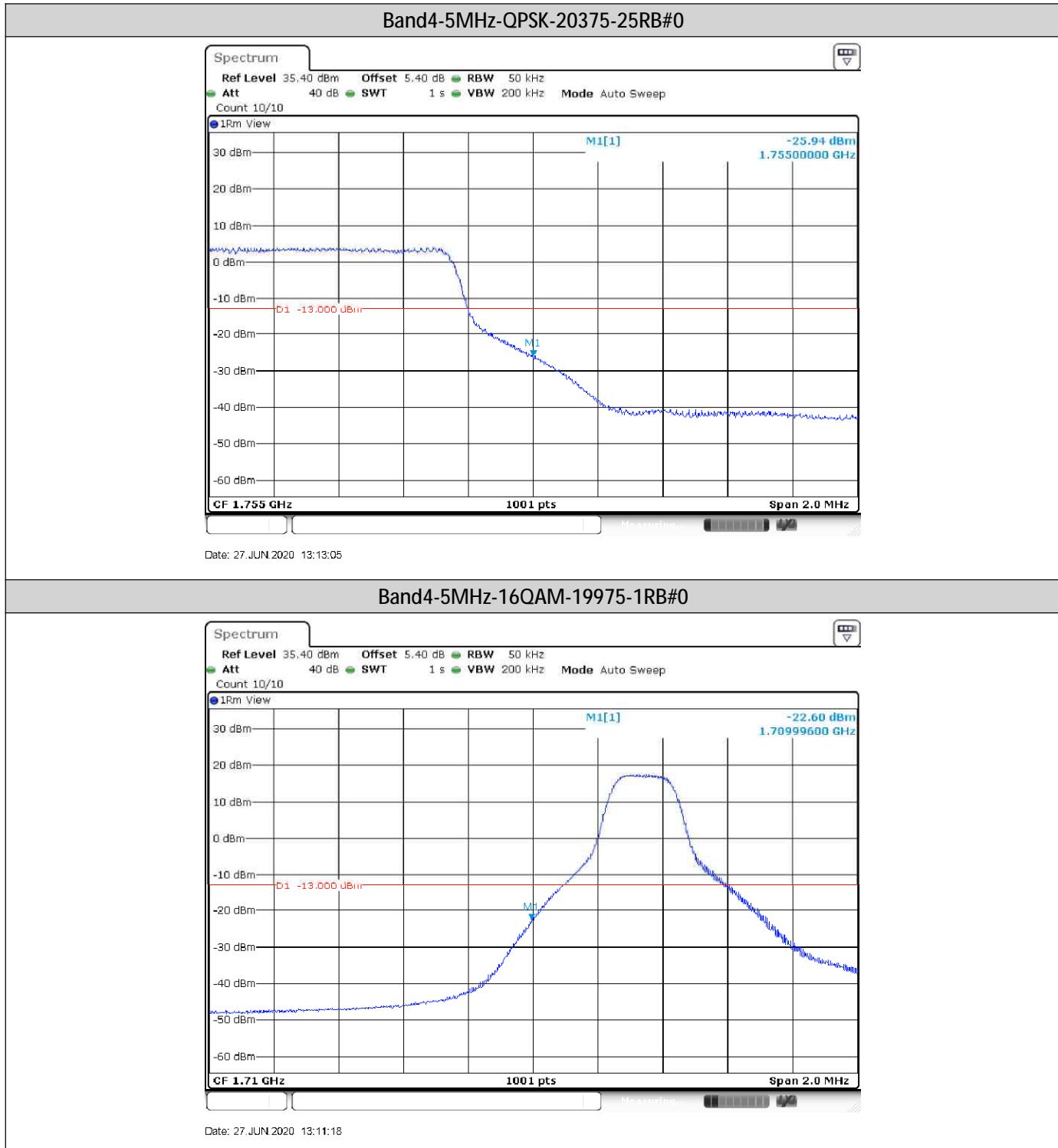


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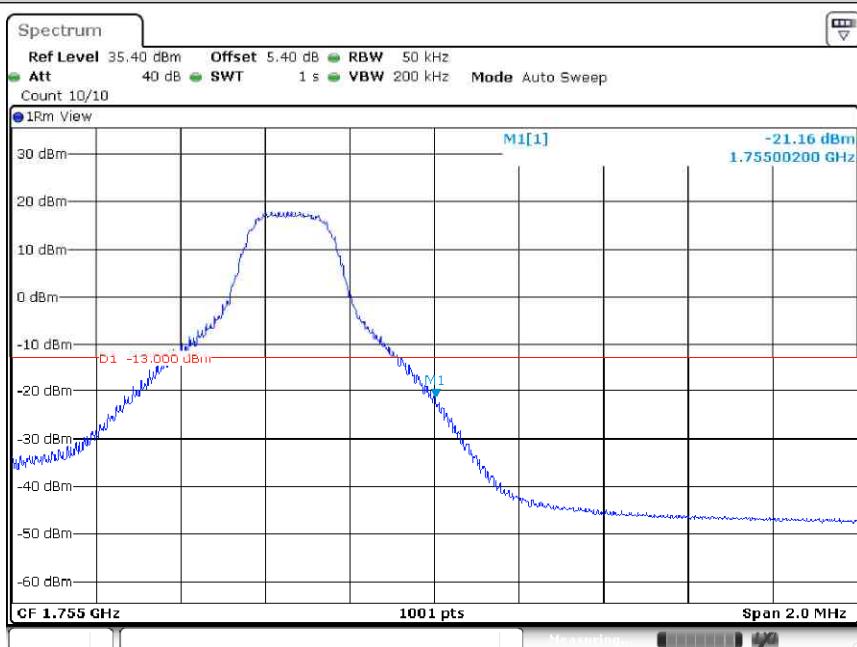


Band4-5MHz-16QAM-19975-25RB#0



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



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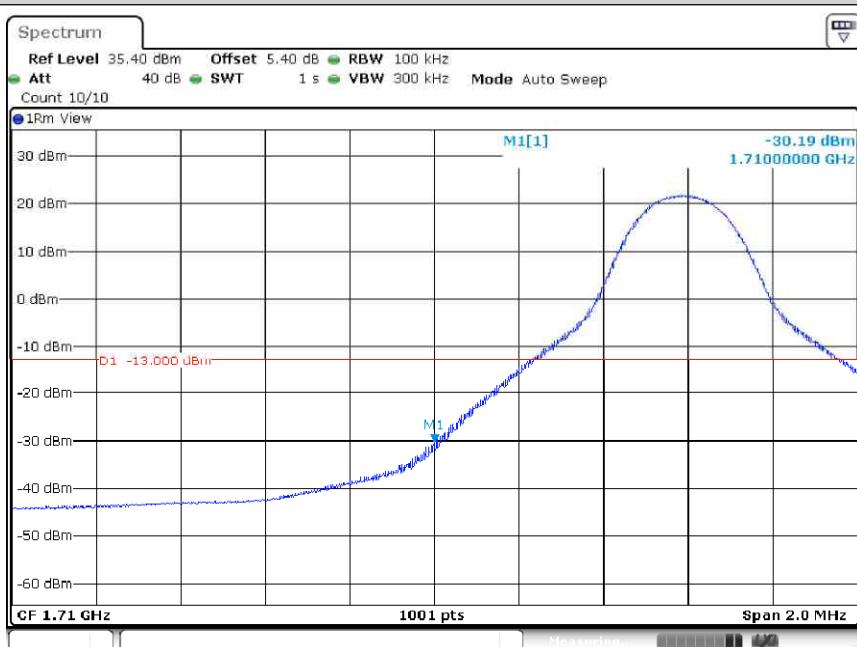
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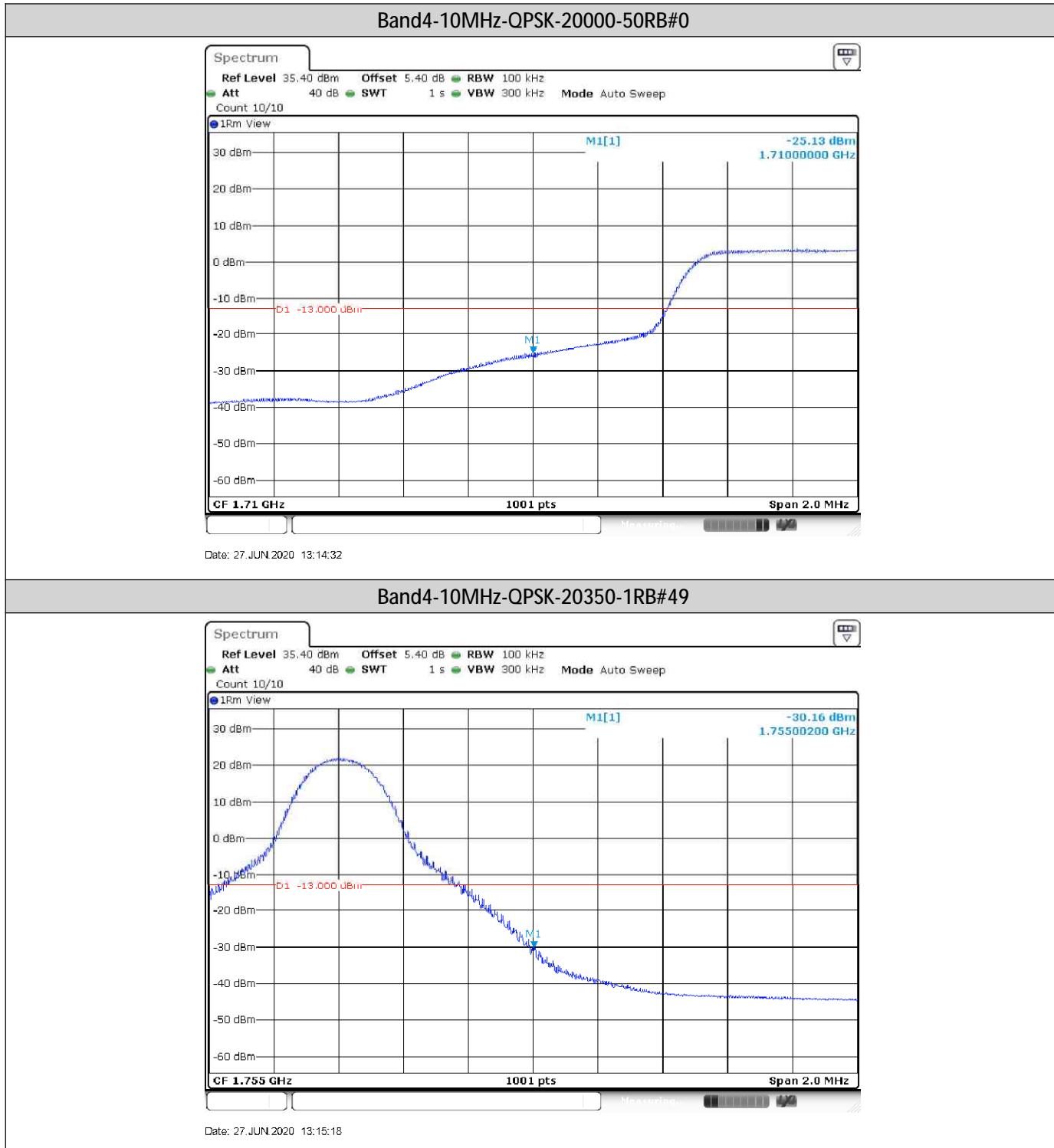
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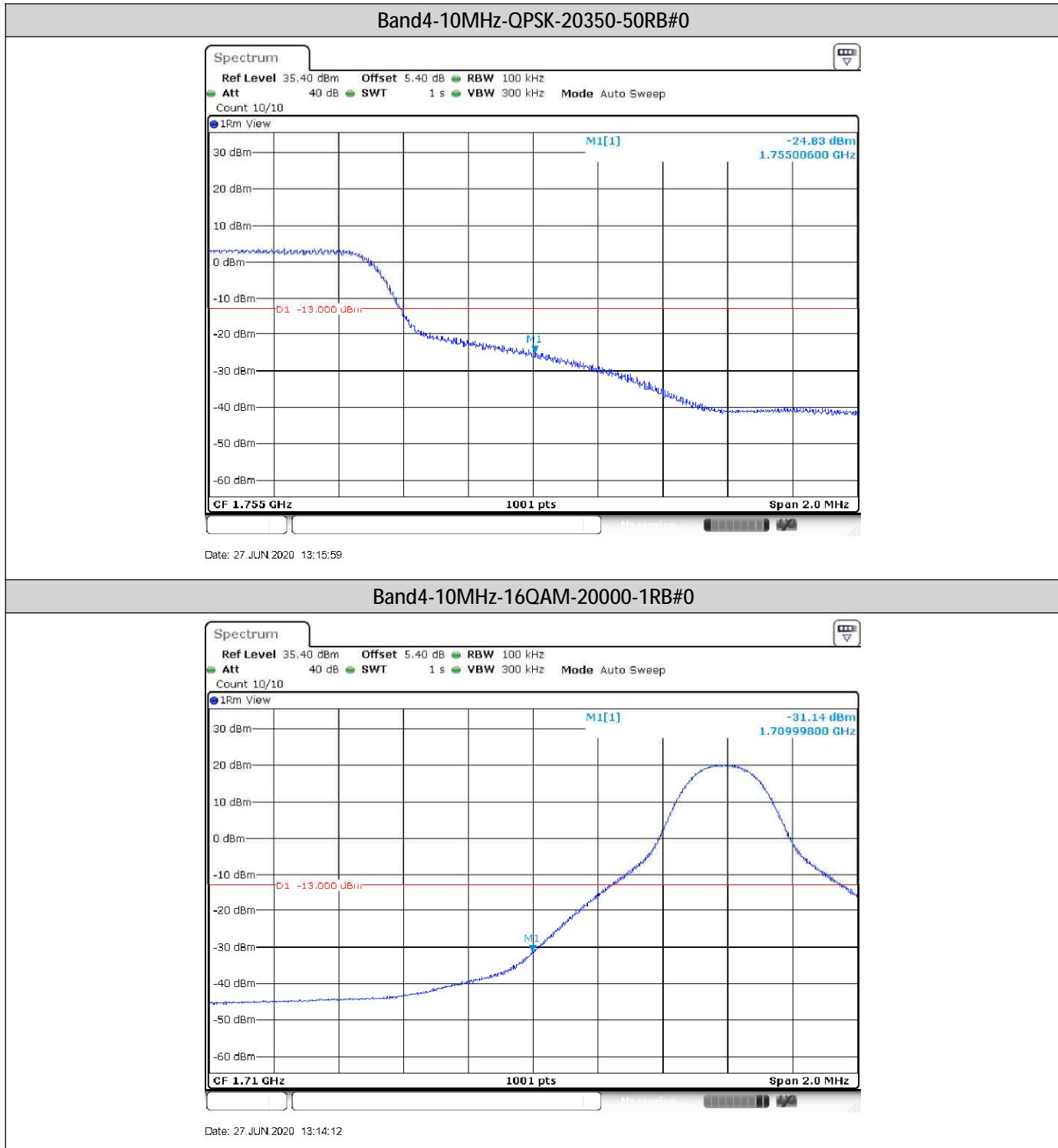


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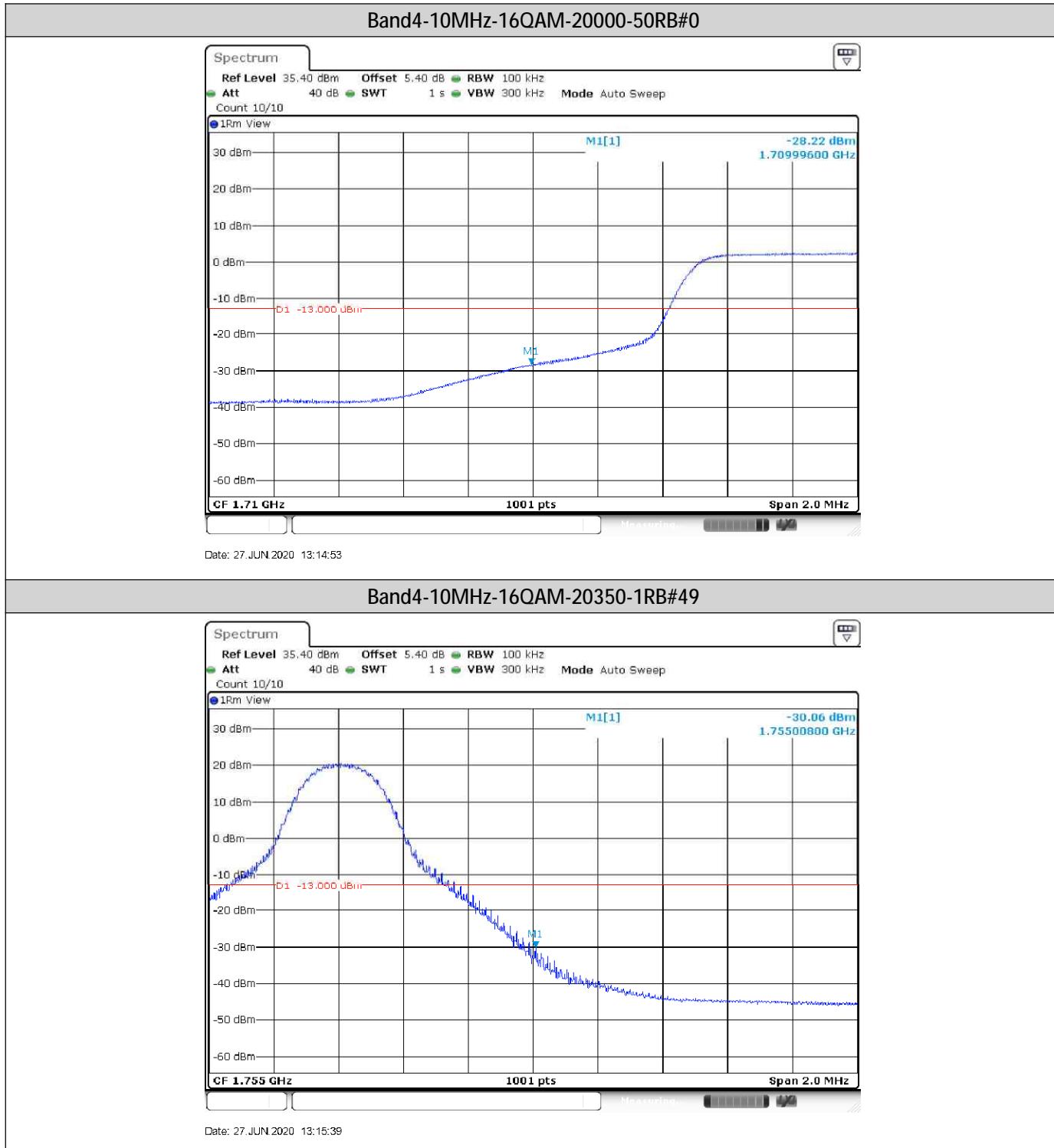


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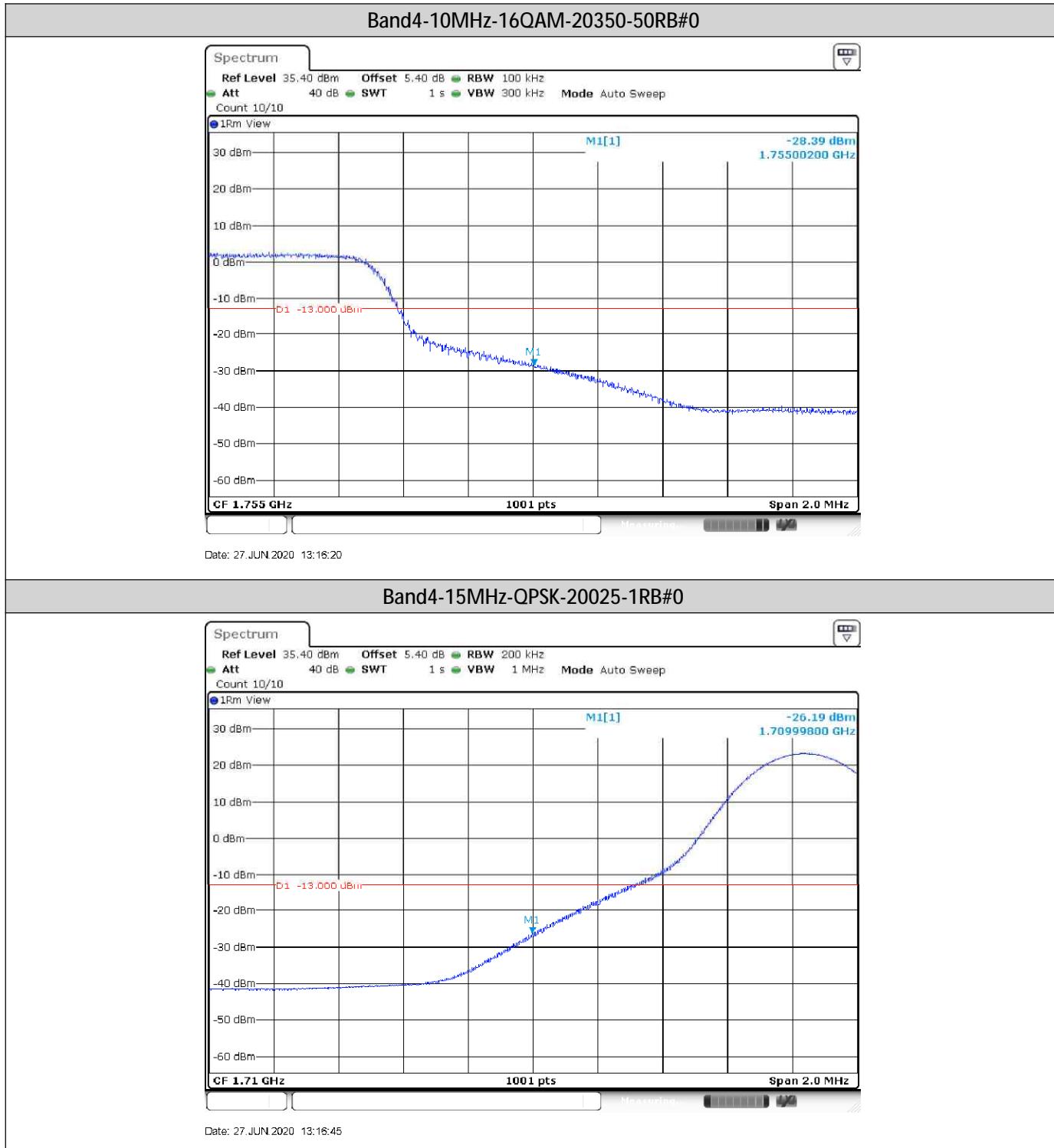
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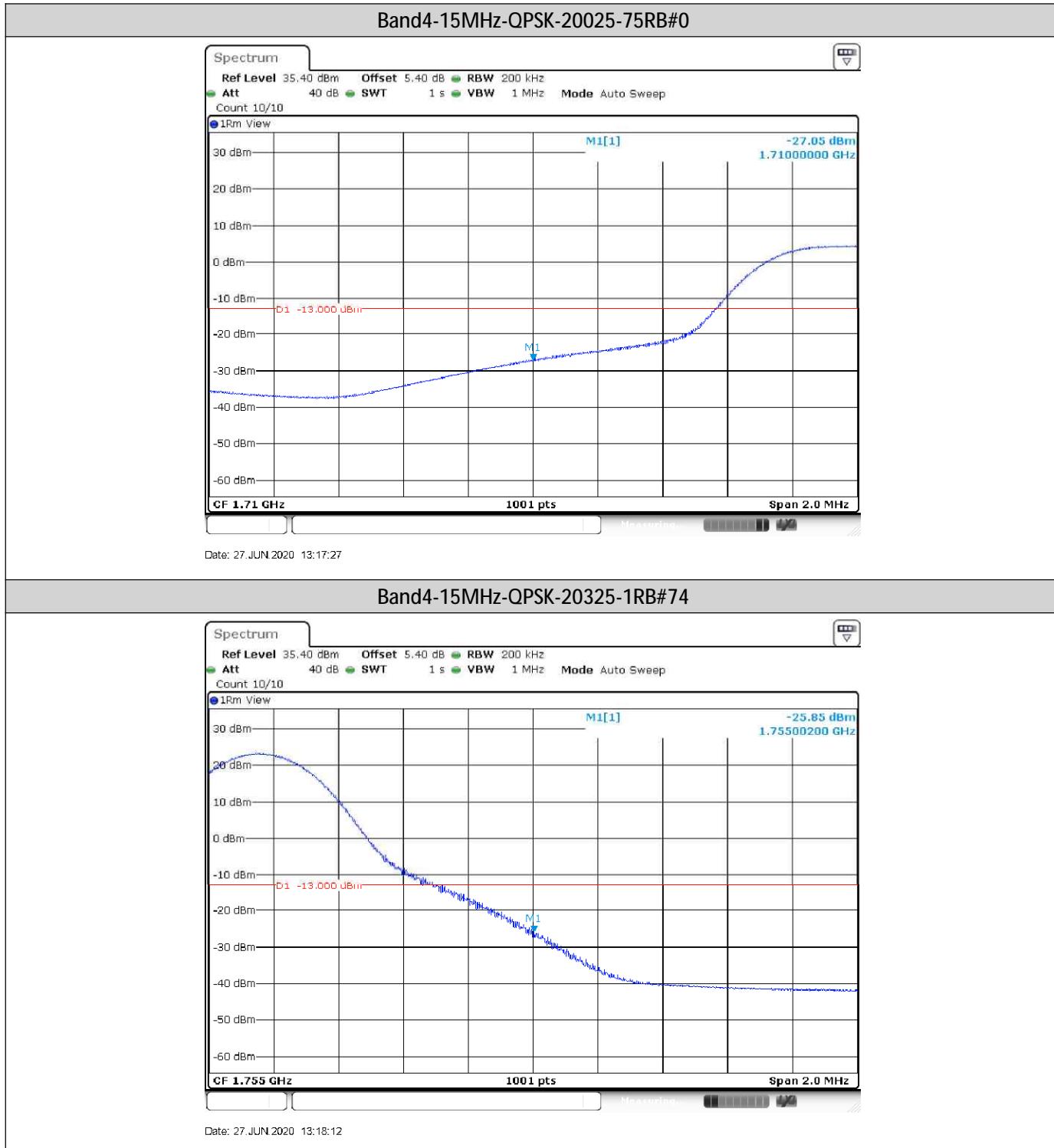




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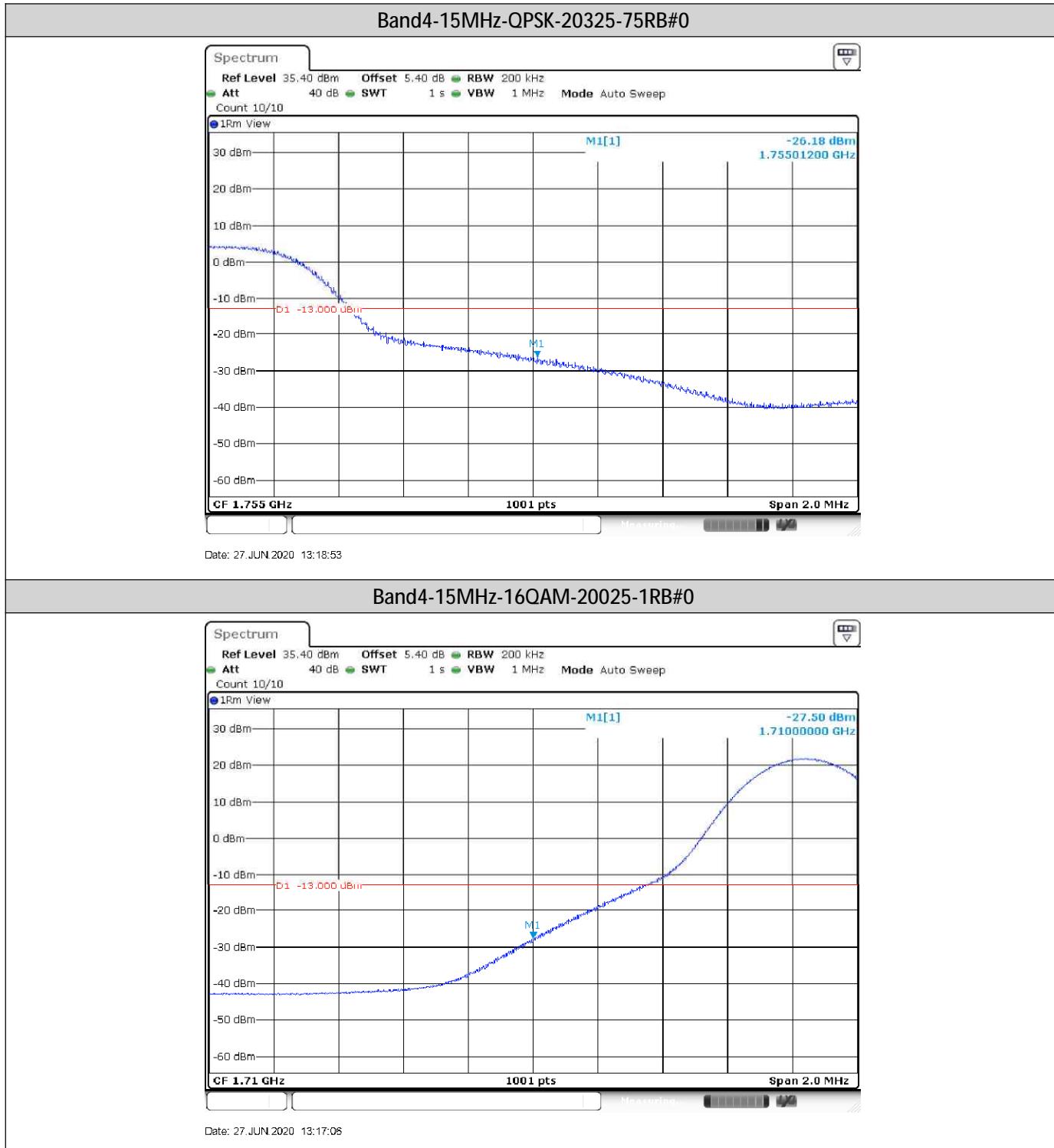




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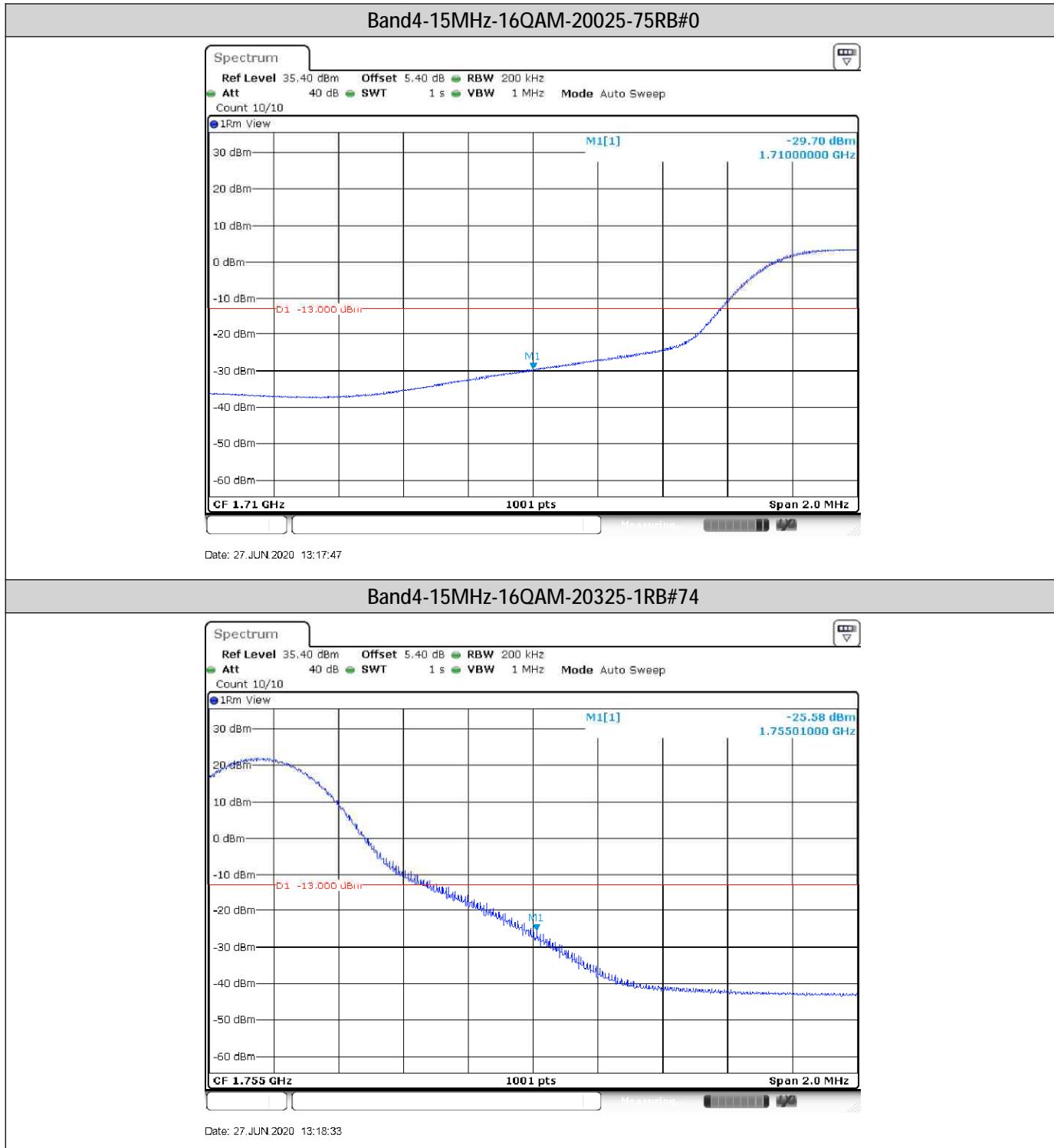




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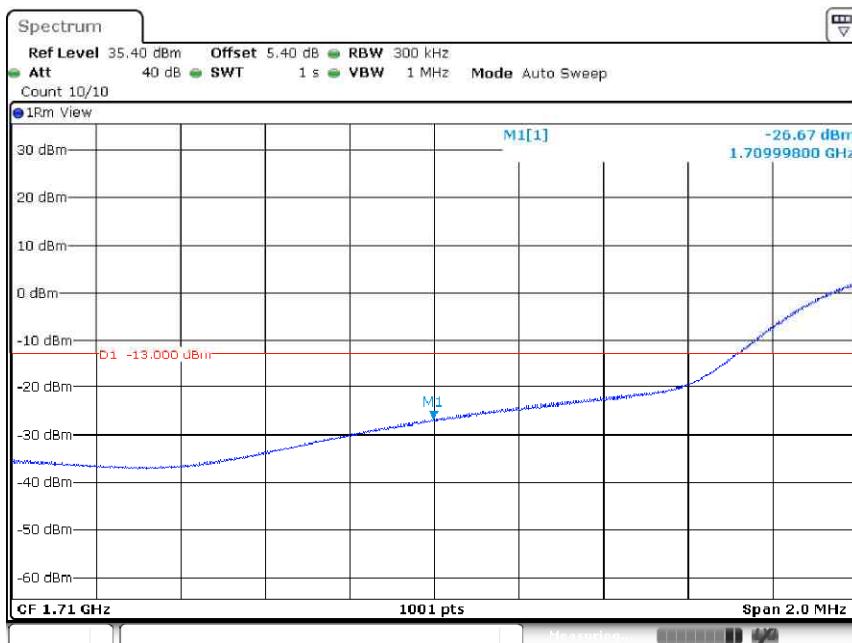
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Band4-20MHz-QPSK-20050-100RB#0



Date: 27.JUN.2020 13:20:21

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



Date: 27.JUN.2020 13:21:07

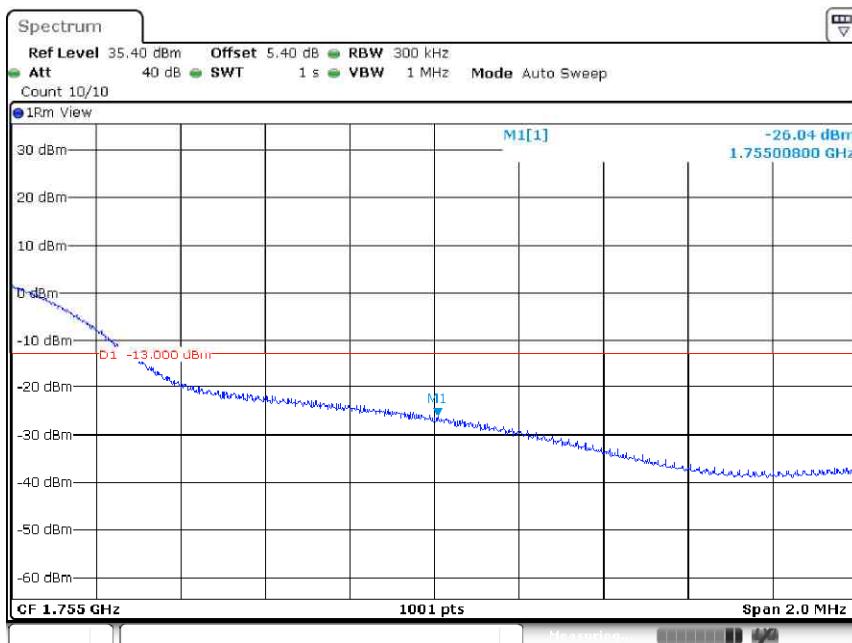
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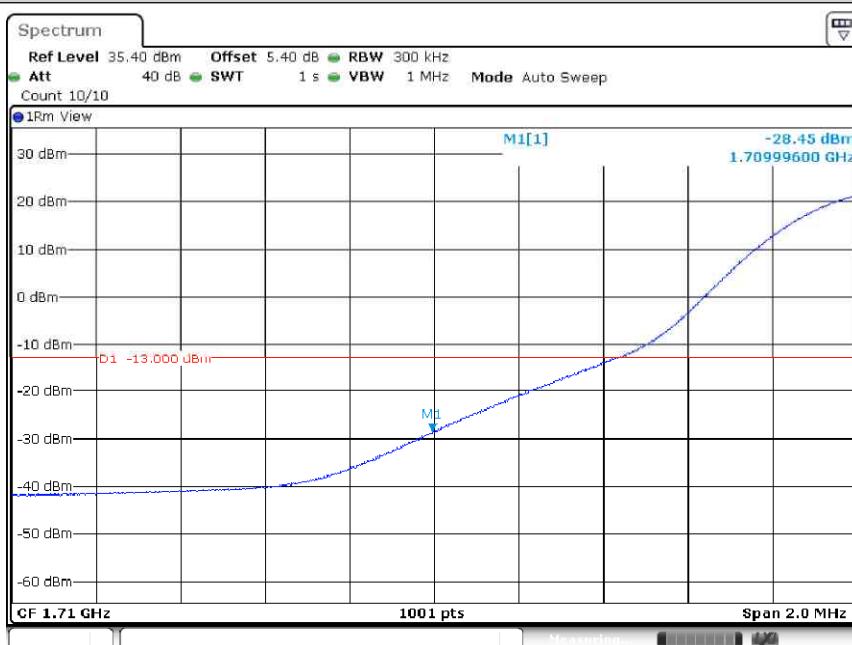
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Band4-20MHz-QPSK-20300-100RB#0



Date: 27.JUN.2020 13:21:48

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



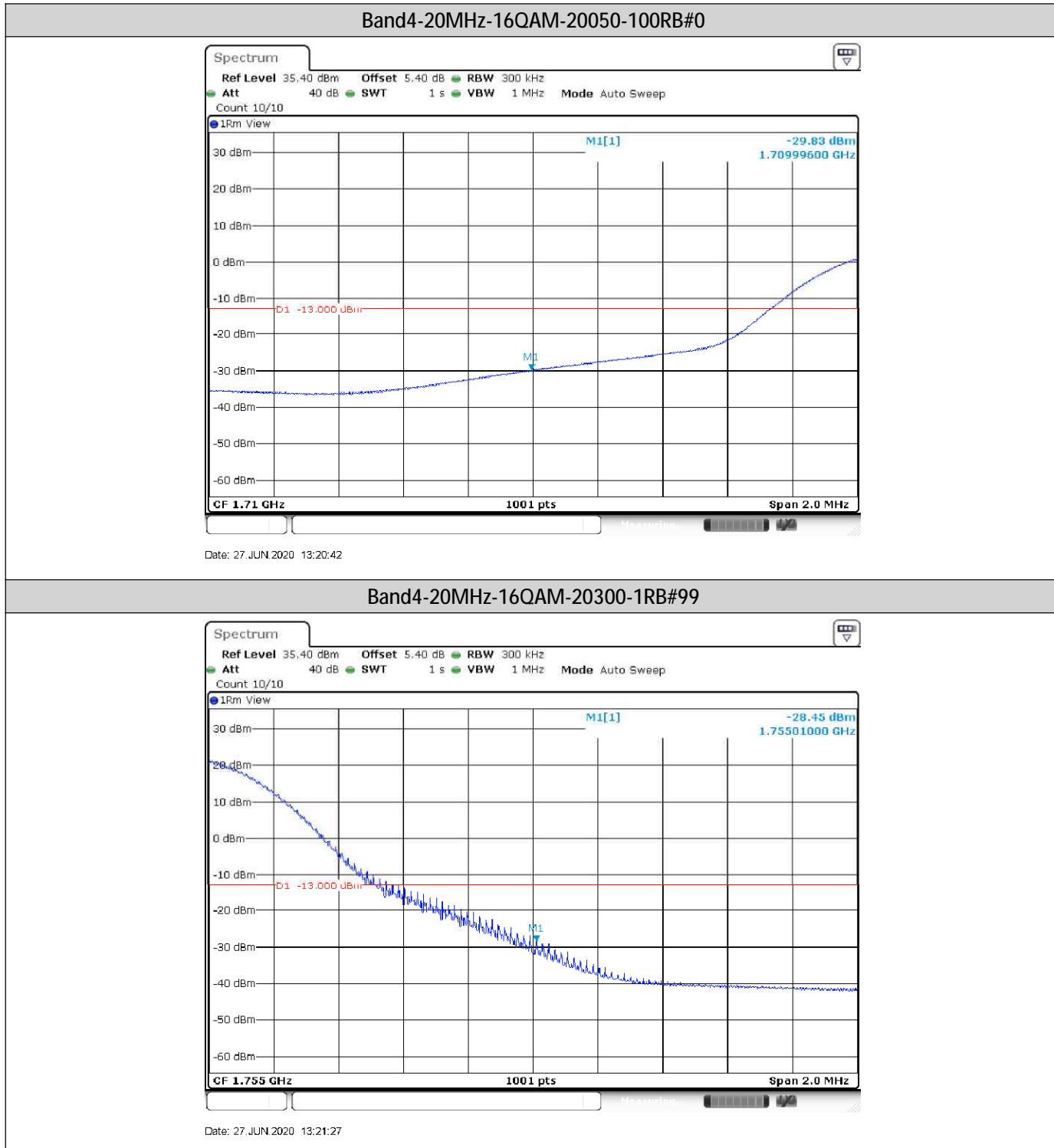
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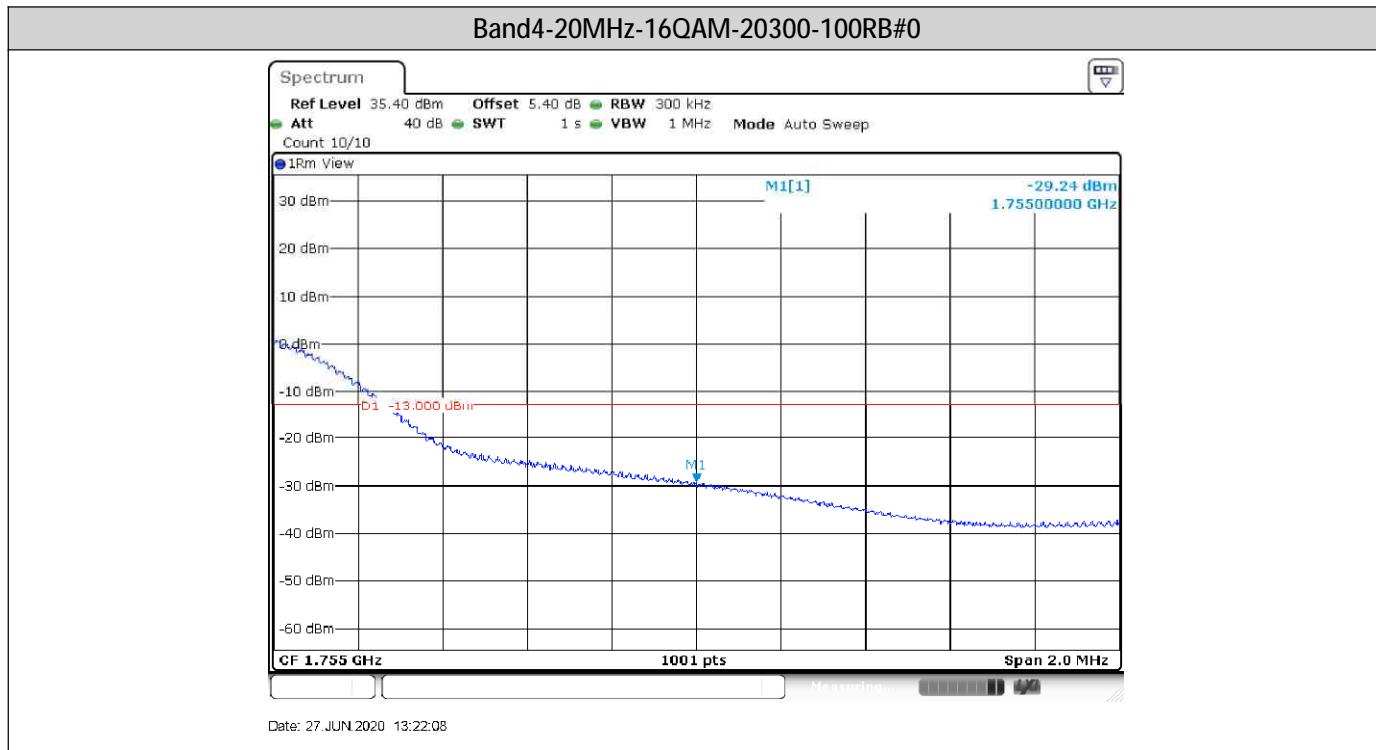
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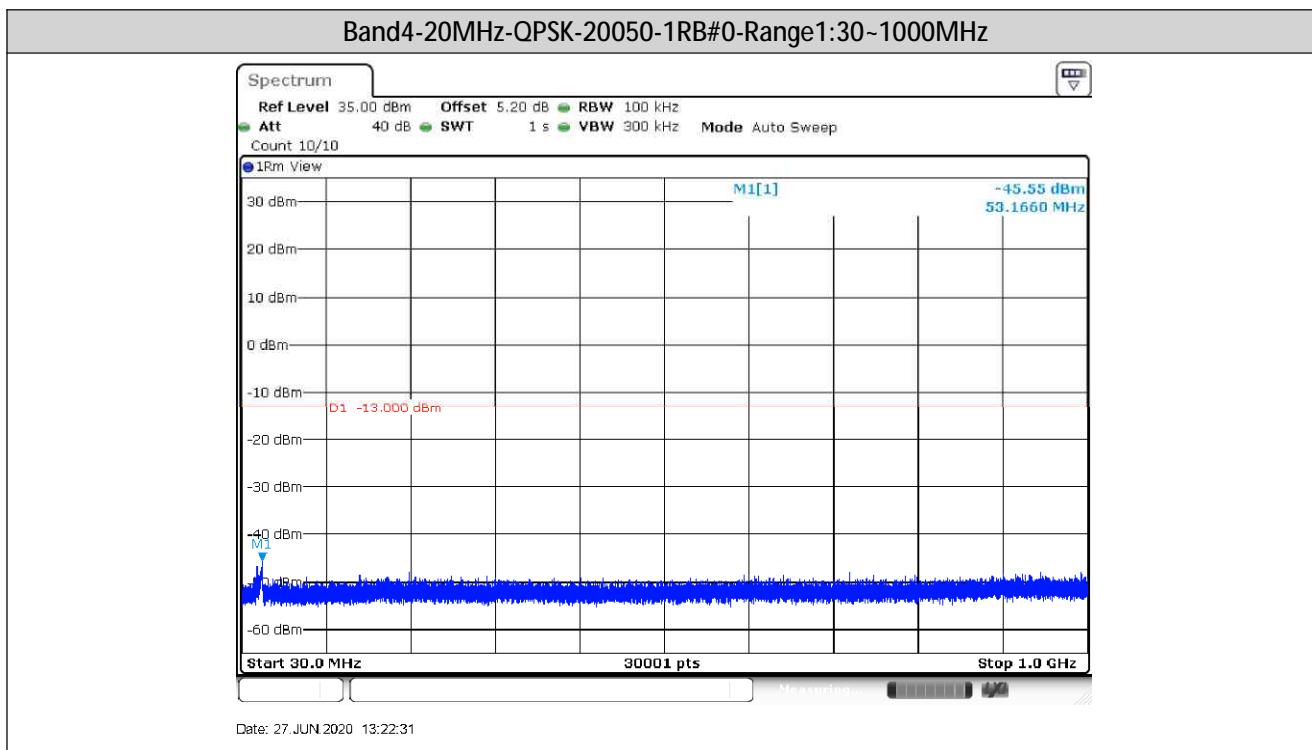
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6. Spurious Emission at Antenna Terminal

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 $< \text{RBW}/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k * (\text{Span} / \text{RBW})$ " 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



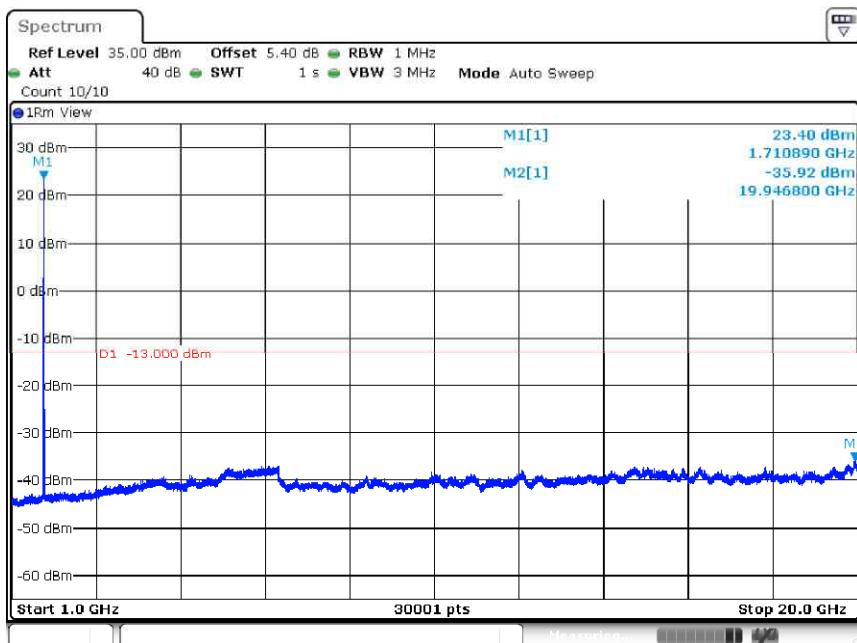
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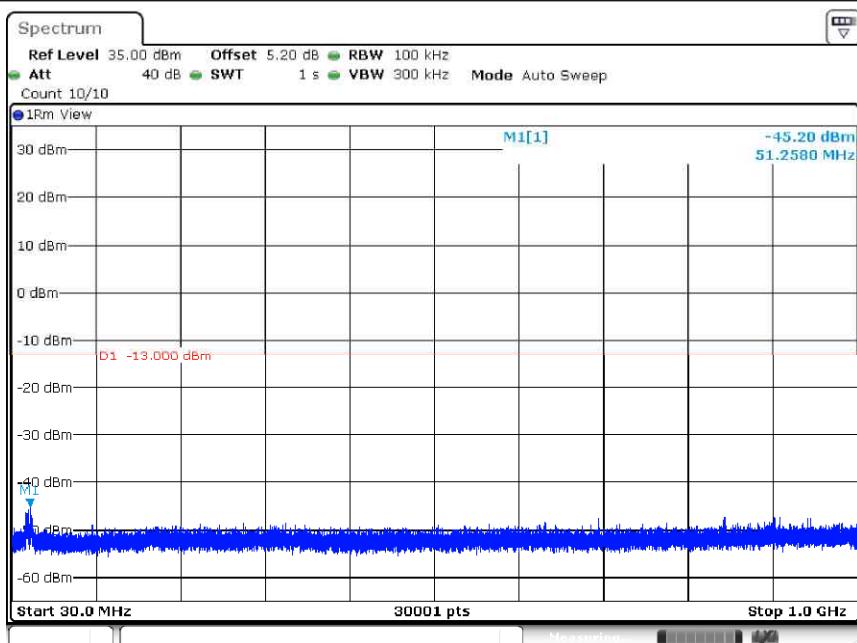
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Band4-20MHz-QPSK-20050-1RB#0-Range2:1000~20000MHz



Date: 27.JUN.2020 13:22:47

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



Date: 27.JUN.2020 13:23:42

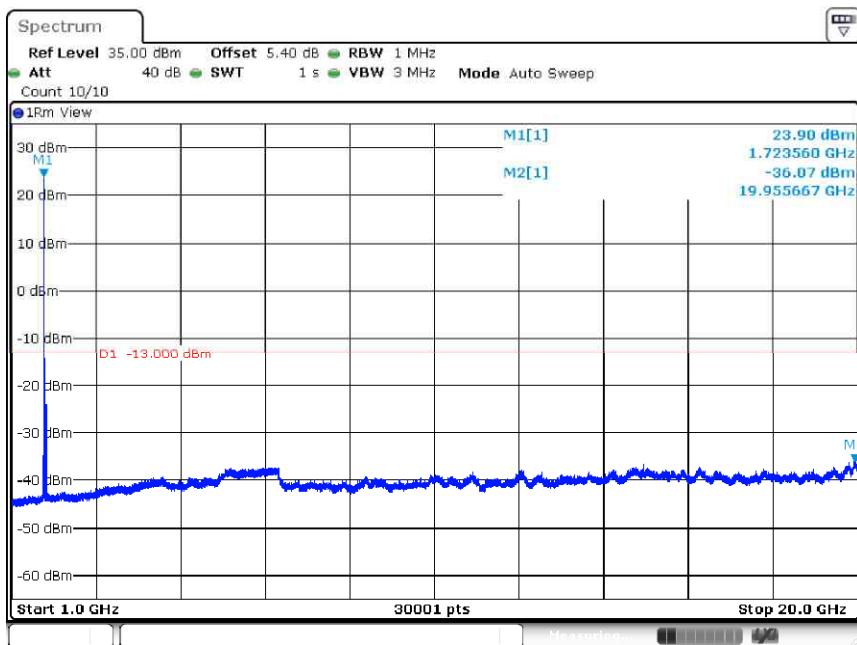
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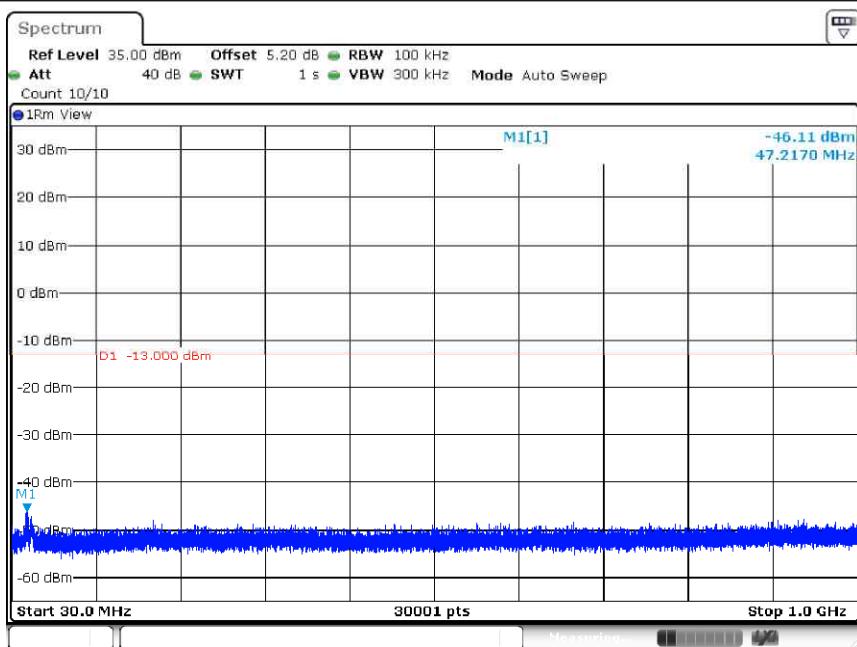
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Band4-20MHz-QPSK-20175-1RB#0-Range2:1000~20000MHz



Date: 27.JUN.2020 13:23:59

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



Date: 27.JUN.2020 13:24:53

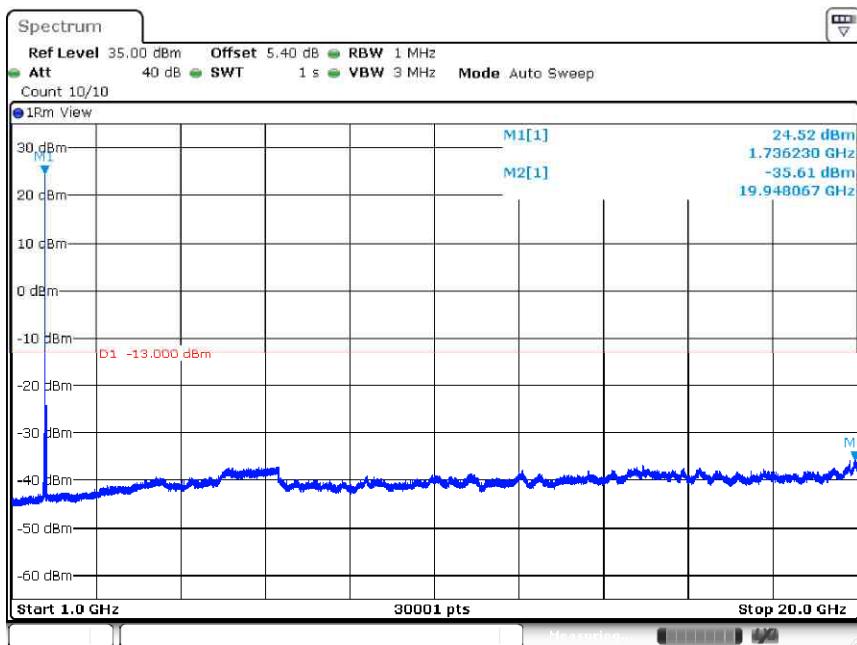
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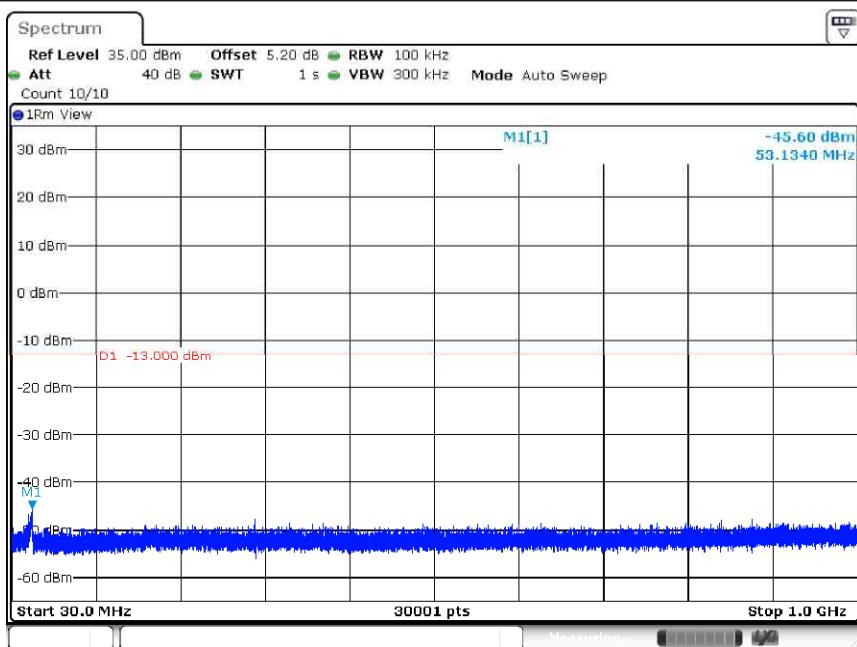
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Band4-20MHz-QPSK-20300-1RB#0-Range2:1000~20000MHz



Date: 27.JUN.2020 13:25:09

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



Date: 27.JUN.2020 13:23:06

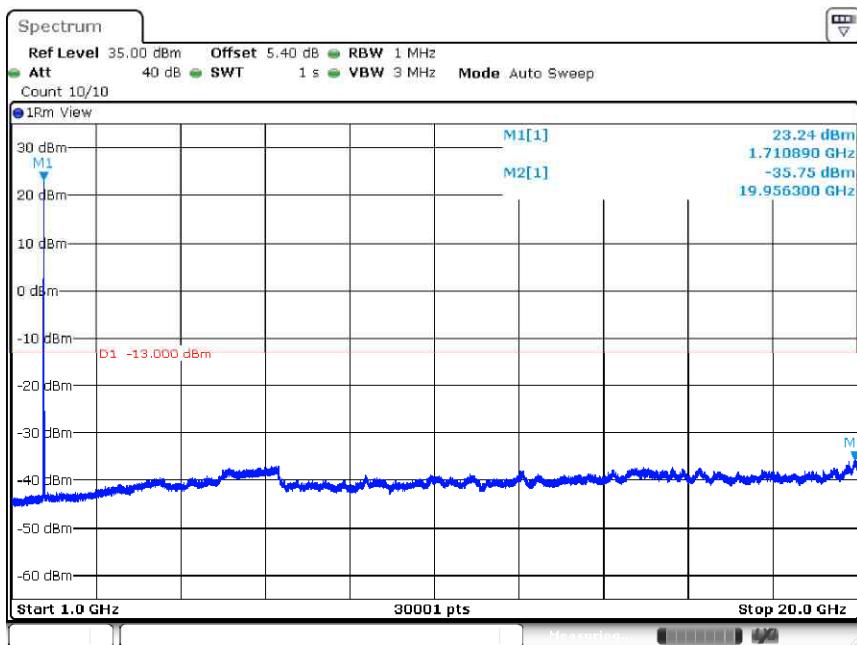
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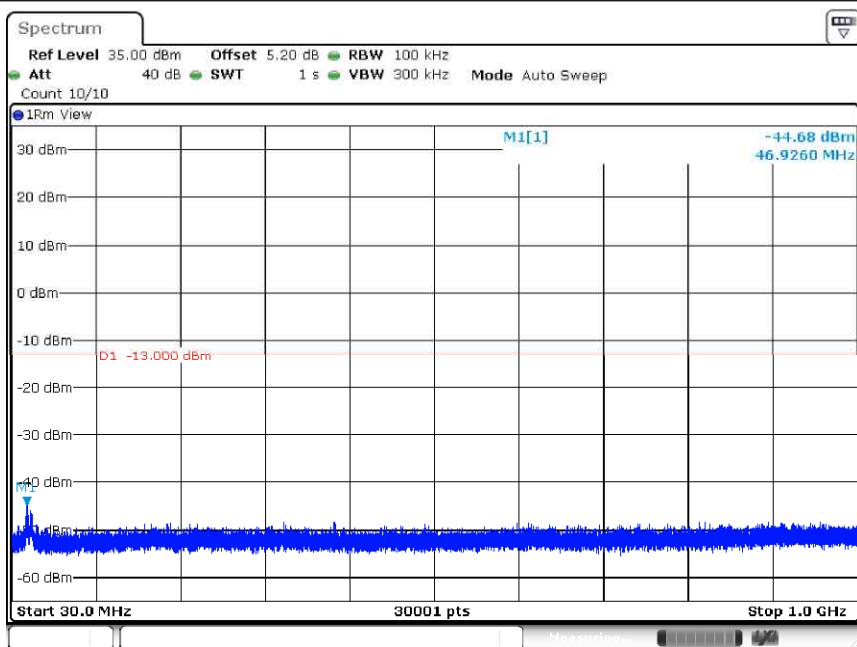
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Band4-20MHz-16QAM-20050-1RB#0-Range2:1000~20000MHz



Date: 27.JUN.2020 13:23:23

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



Date: 27.JUN.2020 13:24:17

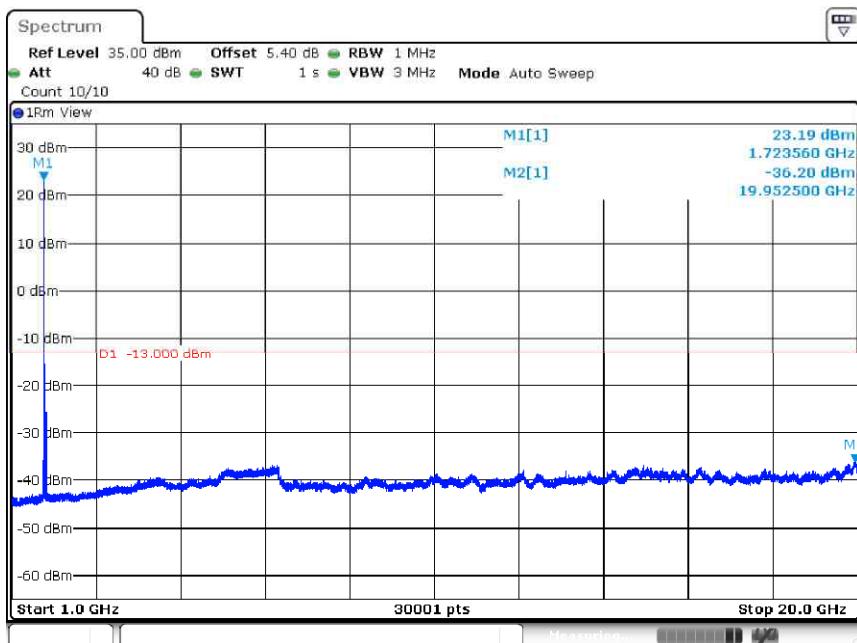
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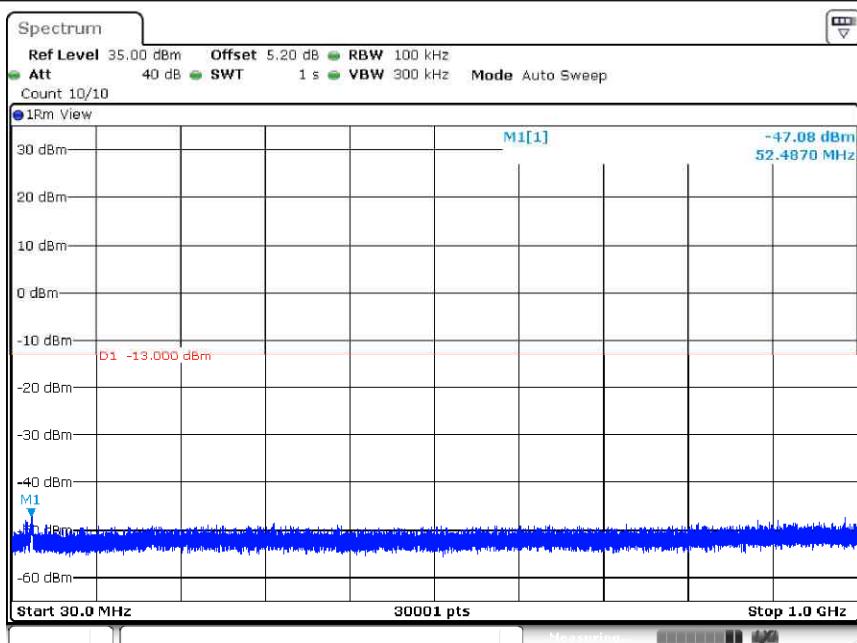
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Band4-20MHz-16QAM-20175-1RB#0-Range2:1000~20000MHz



Date: 27.JUN.2020 13:24:34

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



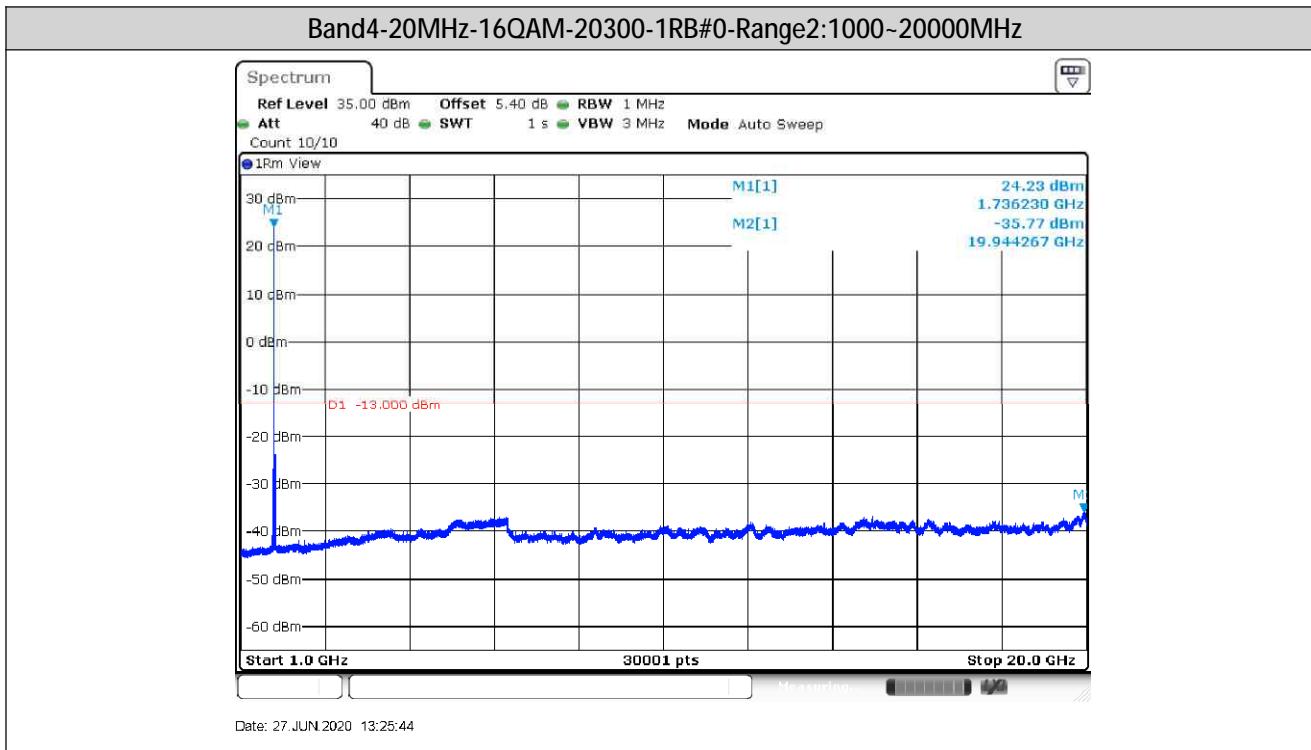
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7. Field Strength of Spurious Radiation

7.1. Test Mode =LTE/TM1 20MHz

7.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
31.0671	-51.53	-13.00	38.53	Vertical
78.6479	-50.50	-13.00	37.50	Vertical
390.2275	-67.73	-13.00	54.73	Vertical
3422.5141	-61.49	-13.00	48.49	Vertical
7368.6456	-55.67	-13.00	42.67	Vertical
14475.3825	-47.16	-13.00	34.16	Vertical
41.4951	-57.52	-13.00	44.52	Horizontal
65.4068	-55.43	-13.00	42.43	Horizontal
228.0839	-67.55	-13.00	54.55	Horizontal
3422.0141	-49.17	-13.00	36.17	Horizontal
7471.1490	-56.31	-13.00	43.31	Horizontal
16391.9464	-43.66	-13.00	30.66	Horizontal

7.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
30.9215	-51.20	-13.00	38.20	Vertical
76.3683	-51.35	-13.00	38.35	Vertical
478.9869	-67.21	-13.00	54.21	Vertical
3447.0149	-61.70	-13.00	48.70	Vertical
7355.6452	-55.32	-13.00	42.32	Vertical
14493.8831	-47.51	-13.00	34.51	Vertical
41.4466	-57.26	-13.00	44.26	Horizontal
68.8019	-56.57	-13.00	43.57	Horizontal
226.2408	-67.19	-13.00	54.19	Horizontal
3447.0149	-51.02	-13.00	38.02	Horizontal
8006.6669	-55.95	-13.00	42.95	Horizontal
16394.4465	-43.85	-13.00	30.85	Horizontal

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7.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
31.0186	-52.55	-13.00	39.55	Vertical
72.8276	-51.05	-13.00	38.05	Vertical
357.2459	-68.54	-13.00	55.54	Vertical
3739.0246	-62.08	-13.00	49.08	Vertical
7440.6480	-55.83	-13.00	42.83	Vertical
14468.8823	-47.68	-13.00	34.68	Vertical
41.8831	-57.32	-13.00	44.32	Horizontal
61.5751	-56.57	-13.00	43.57	Horizontal
142.7681	-67.67	-13.00	54.67	Horizontal
3472.0157	-52.24	-13.00	39.24	Horizontal
7392.1464	-56.30	-13.00	43.30	Horizontal
16373.4458	-43.80	-13.00	30.80	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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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

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	2.00	0.001163	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	VN	NT	1.50	0.000872	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	VH	NT	1.60	0.000930	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	VL	NT	-1.00	-0.000577	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	VN	NT	1.10	0.000635	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	VH	NT	1.60	0.000924	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	VL	NT	-3.60	-0.002063	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	VN	NT	-1.80	-0.001032	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	VH	NT	-1.90	-0.001089	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	VL	NT	0.70	0.000407	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	VN	NT	2.30	0.001337	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	VH	NT	2.10	0.001221	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	VL	NT	-0.40	-0.000231	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	VN	NT	0.40	0.000231	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	VH	NT	1.50	0.000866	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	VL	NT	-2.80	-0.001605	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	VN	NT	-3.10	-0.001777	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	VH	NT	-3.30	-0.001891	±2.5	PASS

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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	2.70	0.001570	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	-20	1.20	0.000698	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	0	1.40	0.000814	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	10	1.60	0.000930	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	20	0.80	0.000465	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	30	1.30	0.000756	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	40	1.70	0.000988	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	50	0.30	0.000174	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-30	1.40	0.000808	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-20	-0.20	-0.000115	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	0	1.30	0.000750	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	10	0.20	0.000115	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	20	1.40	0.000808	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	30	1.40	0.000808	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	40	-0.60	-0.000346	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	50	-0.60	-0.000346	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	-30	-2.80	-0.001605	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	-20	-1.70	-0.000974	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	0	-3.40	-0.001948	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	10	-4.00	-0.002292	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	20	-3.00	-0.001719	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	30	-3.30	-0.001891	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	40	-3.70	-0.002120	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	50	-4.10	-0.002350	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	-30	1.50	0.000872	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	-20	2.30	0.001337	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	0	1.70	0.000988	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	10	1.10	0.000640	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	20	1.00	0.000581	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	30	3.00	0.001744	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	40	0.90	0.000523	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	50	1.00	0.000581	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	-30	-0.50	-0.000289	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	-20	1.00	0.000577	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	0	0.80	0.000462	±2.5	PASS

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Band4	20MHz	16QAM	20175	100RB#0	NV	10	0.70	0.000404	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	20	-0.20	-0.000115	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	30	0.30	0.000173	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	40	0.30	0.000173	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	50	0.50	0.000289	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	-30	-1.60	-0.000917	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	-20	-3.30	-0.001891	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	0	-3.60	-0.002063	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	10	-3.80	-0.002178	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	20	-1.50	-0.000860	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	30	-2.60	-0.001490	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	40	-2.10	-0.001203	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	50	-1.90	-0.001089	±2.5	PASS

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