

Appendix B

E-UTRA Band 71

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CONTENT

1 EFFECTIVE (ISOTROPIC) RADIATED POWER	4
1.1 TEST RESULT	4
2 PEAK-TO-AVERAGE RATIO (CCDF).....	11
2.1 TEST RESULT	11
2.2 TEST PLOTS.....	11
3 MODULATION CHARACTERISTICS.....	16
3.1 TEST MODE = LTE /TM1 20MHZ.....	16
3.1.1 TEST CHANNEL = MCH.....	16
3.2 TEST MODE = LTE /TM2 20MHZ.....	17
3.2.1 TEST CHANNEL = MCH.....	17
3.3 TEST MODE = LTE /TM3 20MHZ.....	18
3.3.1 TEST CHANNEL = MCH.....	18
4 26DB BANDWIDTH AND OCCUPIED BANDWIDTH	19
4.1 TEST RESULT	19
4.2 TEST PLOTS.....	20
5 BAND EDGE COMPLIANCE	39
5.1 TEST PLOTS.....	39
6 SPURIOUS EMISSION AT ANTENNA TERMINAL	64
6.1 TEST PLOTS.....	64
7 FIELD STRENGTH OF SPURIOUS RADIATION	74
7.1 TEST MODE =LTE/TM1 20MHZ.....	74
7.1.1 TEST CHANNEL = LCH	74
7.1.2 TEST CHANNEL = MCH.....	74
7.1.3 TEST CHANNEL = HCH	75
8 FREQUENCY STABILITY	76



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8.1 FREQUENCY VS VOLTAGE.....	76
8.2 FREQUENCY VS TEMPERATURE.....	77

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1 Effective (Isotropic) Radiated Power

1.1 Test Result

Band	Bandwidth	Modulation	Channel	RB Config.	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band71	5MHz	QPSK	133147	1RB#0	23.34	20.7	36.98	PASS
Band71	5MHz	QPSK	133147	1RB#12	23.24	20.6	36.98	PASS
Band71	5MHz	QPSK	133147	1RB#24	23.25	20.61	36.98	PASS
Band71	5MHz	QPSK	133147	12RB#0	22.32	19.68	36.98	PASS
Band71	5MHz	QPSK	133147	12RB#6	22.33	19.69	36.98	PASS
Band71	5MHz	QPSK	133147	12RB#13	22.31	19.67	36.98	PASS
Band71	5MHz	QPSK	133147	25RB#0	22.32	19.68	36.98	PASS
Band71	5MHz	QPSK	133297	1RB#0	23.25	20.61	36.98	PASS
Band71	5MHz	QPSK	133297	1RB#12	23.31	20.67	36.98	PASS
Band71	5MHz	QPSK	133297	1RB#24	23.26	20.62	36.98	PASS
Band71	5MHz	QPSK	133297	12RB#0	22.40	19.76	36.98	PASS
Band71	5MHz	QPSK	133297	12RB#6	22.37	19.73	36.98	PASS
Band71	5MHz	QPSK	133297	12RB#13	22.35	19.71	36.98	PASS
Band71	5MHz	QPSK	133297	25RB#0	22.39	19.75	36.98	PASS
Band71	5MHz	QPSK	133447	1RB#0	23.34	20.7	36.98	PASS
Band71	5MHz	QPSK	133447	1RB#12	23.28	20.64	36.98	PASS
Band71	5MHz	QPSK	133447	1RB#24	23.22	20.58	36.98	PASS
Band71	5MHz	QPSK	133447	12RB#0	22.36	19.72	36.98	PASS
Band71	5MHz	QPSK	133447	12RB#6	22.33	19.69	36.98	PASS
Band71	5MHz	QPSK	133447	12RB#13	22.27	19.63	36.98	PASS
Band71	5MHz	QPSK	133447	25RB#0	22.33	19.69	36.98	PASS
Band71	5MHz	16QAM	133147	1RB#0	22.58	19.94	36.98	PASS
Band71	5MHz	16QAM	133147	1RB#12	22.48	19.84	36.98	PASS
Band71	5MHz	16QAM	133147	1RB#24	22.60	19.96	36.98	PASS
Band71	5MHz	16QAM	133147	12RB#0	21.37	18.73	36.98	PASS
Band71	5MHz	16QAM	133147	12RB#6	21.32	18.68	36.98	PASS
Band71	5MHz	16QAM	133147	12RB#13	21.36	18.72	36.98	PASS
Band71	5MHz	16QAM	133147	25RB#0	21.40	18.76	36.98	PASS
Band71	5MHz	16QAM	133297	1RB#0	22.48	19.84	36.98	PASS
Band71	5MHz	16QAM	133297	1RB#12	22.61	19.97	36.98	PASS
Band71	5MHz	16QAM	133297	1RB#24	22.64	20	36.98	PASS
Band71	5MHz	16QAM	133297	12RB#0	21.44	18.8	36.98	PASS

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Band71	5MHz	16QAM	133297	12RB#6	21.41	18.77	36.98	PASS
Band71	5MHz	16QAM	133297	12RB#13	21.37	18.73	36.98	PASS
Band71	5MHz	16QAM	133297	25RB#0	21.38	18.74	36.98	PASS
Band71	5MHz	16QAM	133447	1RB#0	22.65	20.01	36.98	PASS
Band71	5MHz	16QAM	133447	1RB#12	22.44	19.8	36.98	PASS
Band71	5MHz	16QAM	133447	1RB#24	22.42	19.78	36.98	PASS
Band71	5MHz	16QAM	133447	12RB#0	21.38	18.74	36.98	PASS
Band71	5MHz	16QAM	133447	12RB#6	21.41	18.77	36.98	PASS
Band71	5MHz	16QAM	133447	12RB#13	21.29	18.65	36.98	PASS
Band71	5MHz	16QAM	133447	25RB#0	21.33	18.69	36.98	PASS
Band71	5MHz	64QAM	133147	1RB#0	22.28	19.64	36.98	PASS
Band71	5MHz	64QAM	133147	1RB#12	22.09	19.45	36.98	PASS
Band71	5MHz	64QAM	133147	1RB#24	22.10	19.46	36.98	PASS
Band71	5MHz	64QAM	133147	12RB#0	21.05	18.41	36.98	PASS
Band71	5MHz	64QAM	133147	12RB#6	21.08	18.44	36.98	PASS
Band71	5MHz	64QAM	133147	12RB#13	21.07	18.43	36.98	PASS
Band71	5MHz	64QAM	133147	25RB#0	21.11	18.47	36.98	PASS
Band71	5MHz	64QAM	133297	1RB#0	22.08	19.44	36.98	PASS
Band71	5MHz	64QAM	133297	1RB#12	22.16	19.52	36.98	PASS
Band71	5MHz	64QAM	133297	1RB#24	22.10	19.46	36.98	PASS
Band71	5MHz	64QAM	133297	12RB#0	21.15	18.51	36.98	PASS
Band71	5MHz	64QAM	133297	12RB#6	21.15	18.51	36.98	PASS
Band71	5MHz	64QAM	133297	12RB#13	21.06	18.42	36.98	PASS
Band71	5MHz	64QAM	133297	25RB#0	21.08	18.44	36.98	PASS
Band71	5MHz	64QAM	133447	1RB#0	22.16	19.52	36.98	PASS
Band71	5MHz	64QAM	133447	1RB#12	22.12	19.48	36.98	PASS
Band71	5MHz	64QAM	133447	1RB#24	22.10	19.46	36.98	PASS
Band71	5MHz	64QAM	133447	12RB#0	21.06	18.42	36.98	PASS
Band71	5MHz	64QAM	133447	12RB#6	21.12	18.48	36.98	PASS
Band71	5MHz	64QAM	133447	12RB#13	21.05	18.41	36.98	PASS
Band71	5MHz	64QAM	133447	25RB#0	21.06	18.42	36.98	PASS
Band71	10MHz	QPSK	133172	1RB#0	23.40	20.76	36.98	PASS
Band71	10MHz	QPSK	133172	1RB#24	23.29	20.65	36.98	PASS
Band71	10MHz	QPSK	133172	1RB#49	23.20	20.56	36.98	PASS
Band71	10MHz	QPSK	133172	25RB#0	22.41	19.77	36.98	PASS
Band71	10MHz	QPSK	133172	25RB#12	22.37	19.73	36.98	PASS
Band71	10MHz	QPSK	133172	25RB#25	22.38	19.74	36.98	PASS
Band71	10MHz	QPSK	133172	50RB#0	22.31	19.67	36.98	PASS

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Band71	10MHz	QPSK	133297	1RB#0	23.40	20.76	36.98	PASS
Band71	10MHz	QPSK	133297	1RB#24	23.30	20.66	36.98	PASS
Band71	10MHz	QPSK	133297	1RB#49	23.27	20.63	36.98	PASS
Band71	10MHz	QPSK	133297	25RB#0	22.41	19.77	36.98	PASS
Band71	10MHz	QPSK	133297	25RB#12	22.46	19.82	36.98	PASS
Band71	10MHz	QPSK	133297	25RB#25	22.30	19.66	36.98	PASS
Band71	10MHz	QPSK	133297	50RB#0	22.36	19.72	36.98	PASS
Band71	10MHz	QPSK	133422	1RB#0	23.45	20.81	36.98	PASS
Band71	10MHz	QPSK	133422	1RB#24	23.32	20.68	36.98	PASS
Band71	10MHz	QPSK	133422	1RB#49	23.20	20.56	36.98	PASS
Band71	10MHz	QPSK	133422	25RB#0	22.45	19.81	36.98	PASS
Band71	10MHz	QPSK	133422	25RB#12	22.39	19.75	36.98	PASS
Band71	10MHz	QPSK	133422	25RB#25	22.28	19.64	36.98	PASS
Band71	10MHz	QPSK	133422	50RB#0	22.33	19.69	36.98	PASS
Band71	10MHz	16QAM	133172	1RB#0	22.63	19.99	36.98	PASS
Band71	10MHz	16QAM	133172	1RB#24	22.59	19.95	36.98	PASS
Band71	10MHz	16QAM	133172	1RB#49	22.48	19.84	36.98	PASS
Band71	10MHz	16QAM	133172	25RB#0	21.40	18.76	36.98	PASS
Band71	10MHz	16QAM	133172	25RB#12	21.38	18.74	36.98	PASS
Band71	10MHz	16QAM	133172	25RB#25	21.39	18.75	36.98	PASS
Band71	10MHz	16QAM	133172	50RB#0	21.33	18.69	36.98	PASS
Band71	10MHz	16QAM	133297	1RB#0	22.73	20.09	36.98	PASS
Band71	10MHz	16QAM	133297	1RB#24	22.55	19.91	36.98	PASS
Band71	10MHz	16QAM	133297	1RB#49	22.60	19.96	36.98	PASS
Band71	10MHz	16QAM	133297	25RB#0	21.44	18.8	36.98	PASS
Band71	10MHz	16QAM	133297	25RB#12	21.42	18.78	36.98	PASS
Band71	10MHz	16QAM	133297	25RB#25	21.31	18.67	36.98	PASS
Band71	10MHz	16QAM	133297	50RB#0	21.40	18.76	36.98	PASS
Band71	10MHz	16QAM	133422	1RB#0	22.68	20.04	36.98	PASS
Band71	10MHz	16QAM	133422	1RB#24	22.47	19.83	36.98	PASS
Band71	10MHz	16QAM	133422	1RB#49	22.43	19.79	36.98	PASS
Band71	10MHz	16QAM	133422	25RB#0	21.41	18.77	36.98	PASS
Band71	10MHz	16QAM	133422	25RB#12	21.36	18.72	36.98	PASS
Band71	10MHz	16QAM	133422	25RB#25	21.31	18.67	36.98	PASS
Band71	10MHz	16QAM	133422	50RB#0	21.37	18.73	36.98	PASS
Band71	10MHz	64QAM	133172	1RB#0	22.31	19.67	36.98	PASS
Band71	10MHz	64QAM	133172	1RB#24	22.15	19.51	36.98	PASS
Band71	10MHz	64QAM	133172	1RB#49	22.10	19.46	36.98	PASS

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Band71	10MHz	64QAM	133172	25RB#0	21.16	18.52	36.98	PASS
Band71	10MHz	64QAM	133172	25RB#12	21.17	18.53	36.98	PASS
Band71	10MHz	64QAM	133172	25RB#25	21.14	18.5	36.98	PASS
Band71	10MHz	64QAM	133172	50RB#0	21.06	18.42	36.98	PASS
Band71	10MHz	64QAM	133297	1RB#0	22.28	19.64	36.98	PASS
Band71	10MHz	64QAM	133297	1RB#24	22.24	19.6	36.98	PASS
Band71	10MHz	64QAM	133297	1RB#49	22.18	19.54	36.98	PASS
Band71	10MHz	64QAM	133297	25RB#0	21.18	18.54	36.98	PASS
Band71	10MHz	64QAM	133297	25RB#12	21.12	18.48	36.98	PASS
Band71	10MHz	64QAM	133297	25RB#25	21.04	18.4	36.98	PASS
Band71	10MHz	64QAM	133297	50RB#0	21.13	18.49	36.98	PASS
Band71	10MHz	64QAM	133422	1RB#0	22.35	19.71	36.98	PASS
Band71	10MHz	64QAM	133422	1RB#24	22.11	19.47	36.98	PASS
Band71	10MHz	64QAM	133422	1RB#49	22.08	19.44	36.98	PASS
Band71	10MHz	64QAM	133422	25RB#0	21.19	18.55	36.98	PASS
Band71	10MHz	64QAM	133422	25RB#12	21.17	18.53	36.98	PASS
Band71	10MHz	64QAM	133422	25RB#25	21.08	18.44	36.98	PASS
Band71	10MHz	64QAM	133422	50RB#0	21.12	18.48	36.98	PASS
Band71	15MHz	QPSK	133197	1RB#0	23.41	20.77	36.98	PASS
Band71	15MHz	QPSK	133197	1RB#38	23.37	20.73	36.98	PASS
Band71	15MHz	QPSK	133197	1RB#74	23.36	20.72	36.98	PASS
Band71	15MHz	QPSK	133197	38RB#0	23.41	20.77	36.98	PASS
Band71	15MHz	QPSK	133197	38RB#18	23.41	20.77	36.98	PASS
Band71	15MHz	QPSK	133197	38RB#37	23.37	20.73	36.98	PASS
Band71	15MHz	QPSK	133197	75RB#0	22.45	19.81	36.98	PASS
Band71	15MHz	QPSK	133297	1RB#0	23.52	20.88	36.98	PASS
Band71	15MHz	QPSK	133297	1RB#38	23.32	20.68	36.98	PASS
Band71	15MHz	QPSK	133297	1RB#74	23.23	20.59	36.98	PASS
Band71	15MHz	QPSK	133297	38RB#0	23.51	20.87	36.98	PASS
Band71	15MHz	QPSK	133297	38RB#18	23.51	20.87	36.98	PASS
Band71	15MHz	QPSK	133297	38RB#37	23.33	20.69	36.98	PASS
Band71	15MHz	QPSK	133297	75RB#0	22.39	19.75	36.98	PASS
Band71	15MHz	QPSK	133397	1RB#0	23.36	20.72	36.98	PASS
Band71	15MHz	QPSK	133397	1RB#38	23.42	20.78	36.98	PASS
Band71	15MHz	QPSK	133397	1RB#74	23.17	20.53	36.98	PASS
Band71	15MHz	QPSK	133397	38RB#0	23.37	20.73	36.98	PASS
Band71	15MHz	QPSK	133397	38RB#18	23.40	20.76	36.98	PASS
Band71	15MHz	QPSK	133397	38RB#37	23.42	20.78	36.98	PASS

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Band71	15MHz	QPSK	133397	75RB#0	22.44	19.8	36.98	PASS
Band71	15MHz	16QAM	133197	1RB#0	22.69	20.05	36.98	PASS
Band71	15MHz	16QAM	133197	1RB#38	22.71	20.07	36.98	PASS
Band71	15MHz	16QAM	133197	1RB#74	22.51	19.87	36.98	PASS
Band71	15MHz	16QAM	133197	38RB#0	22.66	20.02	36.98	PASS
Band71	15MHz	16QAM	133197	38RB#18	22.63	19.99	36.98	PASS
Band71	15MHz	16QAM	133197	38RB#37	22.68	20.04	36.98	PASS
Band71	15MHz	16QAM	133197	75RB#0	21.40	18.76	36.98	PASS
Band71	15MHz	16QAM	133297	1RB#0	22.83	20.19	36.98	PASS
Band71	15MHz	16QAM	133297	1RB#38	22.66	20.02	36.98	PASS
Band71	15MHz	16QAM	133297	1RB#74	22.51	19.87	36.98	PASS
Band71	15MHz	16QAM	133297	38RB#0	22.72	20.08	36.98	PASS
Band71	15MHz	16QAM	133297	38RB#18	22.75	20.11	36.98	PASS
Band71	15MHz	16QAM	133297	38RB#37	22.58	19.94	36.98	PASS
Band71	15MHz	16QAM	133297	75RB#0	21.42	18.78	36.98	PASS
Band71	15MHz	16QAM	133397	1RB#0	22.57	19.93	36.98	PASS
Band71	15MHz	16QAM	133397	1RB#38	22.74	20.1	36.98	PASS
Band71	15MHz	16QAM	133397	1RB#74	22.39	19.75	36.98	PASS
Band71	15MHz	16QAM	133397	38RB#0	22.60	19.96	36.98	PASS
Band71	15MHz	16QAM	133397	38RB#18	22.63	19.99	36.98	PASS
Band71	15MHz	16QAM	133397	38RB#37	22.59	19.95	36.98	PASS
Band71	15MHz	16QAM	133397	75RB#0	21.45	18.81	36.98	PASS
Band71	15MHz	64QAM	133197	1RB#0	22.29	19.65	36.98	PASS
Band71	15MHz	64QAM	133197	1RB#38	22.24	19.6	36.98	PASS
Band71	15MHz	64QAM	133197	1RB#74	22.19	19.55	36.98	PASS
Band71	15MHz	64QAM	133197	38RB#0	22.27	19.63	36.98	PASS
Band71	15MHz	64QAM	133197	38RB#18	22.28	19.64	36.98	PASS
Band71	15MHz	64QAM	133197	38RB#37	22.24	19.6	36.98	PASS
Band71	15MHz	64QAM	133197	75RB#0	21.16	18.52	36.98	PASS
Band71	15MHz	64QAM	133297	1RB#0	22.41	19.77	36.98	PASS
Band71	15MHz	64QAM	133297	1RB#38	22.24	19.6	36.98	PASS
Band71	15MHz	64QAM	133297	1RB#74	22.14	19.5	36.98	PASS
Band71	15MHz	64QAM	133297	38RB#0	22.35	19.71	36.98	PASS
Band71	15MHz	64QAM	133297	38RB#18	22.36	19.72	36.98	PASS
Band71	15MHz	64QAM	133297	38RB#37	22.18	19.54	36.98	PASS
Band71	15MHz	64QAM	133297	75RB#0	21.15	18.51	36.98	PASS
Band71	15MHz	64QAM	133397	1RB#0	22.29	19.65	36.98	PASS
Band71	15MHz	64QAM	133397	1RB#38	22.33	19.69	36.98	PASS
Band71	15MHz	64QAM	133397	1RB#74	22.33	19.69	36.98	PASS

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Band71	15MHz	64QAM	133397	1RB#74	22.05	19.41	36.98	PASS
Band71	15MHz	64QAM	133397	38RB#0	22.23	19.59	36.98	PASS
Band71	15MHz	64QAM	133397	38RB#18	22.30	19.66	36.98	PASS
Band71	15MHz	64QAM	133397	38RB#37	22.33	19.69	36.98	PASS
Band71	15MHz	64QAM	133397	75RB#0	21.18	18.54	36.98	PASS
Band71	20MHz	QPSK	133222	1RB#0	23.34	20.7	36.98	PASS
Band71	20MHz	QPSK	133222	1RB#49	23.31	20.67	36.98	PASS
Band71	20MHz	QPSK	133222	1RB#99	23.16	20.52	36.98	PASS
Band71	20MHz	QPSK	133222	50RB#0	22.38	19.74	36.98	PASS
Band71	20MHz	QPSK	133222	50RB#25	22.42	19.78	36.98	PASS
Band71	20MHz	QPSK	133222	50RB#50	22.39	19.75	36.98	PASS
Band71	20MHz	QPSK	133222	100RB#0	22.40	19.76	36.98	PASS
Band71	20MHz	QPSK	133322	1RB#0	23.55	20.91	36.98	PASS
Band71	20MHz	QPSK	133322	1RB#49	23.33	20.69	36.98	PASS
Band71	20MHz	QPSK	133322	1RB#99	23.22	20.58	36.98	PASS
Band71	20MHz	QPSK	133322	50RB#0	22.44	19.8	36.98	PASS
Band71	20MHz	QPSK	133322	50RB#25	22.35	19.71	36.98	PASS
Band71	20MHz	QPSK	133322	50RB#50	22.34	19.7	36.98	PASS
Band71	20MHz	QPSK	133322	100RB#0	22.44	19.8	36.98	PASS
Band71	20MHz	QPSK	133372	1RB#0	23.33	20.69	36.98	PASS
Band71	20MHz	QPSK	133372	1RB#49	23.34	20.7	36.98	PASS
Band71	20MHz	QPSK	133372	1RB#99	23.20	20.56	36.98	PASS
Band71	20MHz	QPSK	133372	50RB#0	22.41	19.77	36.98	PASS
Band71	20MHz	QPSK	133372	50RB#25	22.42	19.78	36.98	PASS
Band71	20MHz	QPSK	133372	50RB#50	22.37	19.73	36.98	PASS
Band71	20MHz	QPSK	133372	100RB#0	22.41	19.77	36.98	PASS
Band71	20MHz	16QAM	133222	1RB#0	22.58	19.94	36.98	PASS
Band71	20MHz	16QAM	133222	1RB#49	22.59	19.95	36.98	PASS
Band71	20MHz	16QAM	133222	1RB#99	22.42	19.78	36.98	PASS
Band71	20MHz	16QAM	133222	50RB#0	21.39	18.75	36.98	PASS
Band71	20MHz	16QAM	133222	50RB#25	21.40	18.76	36.98	PASS
Band71	20MHz	16QAM	133222	50RB#50	21.37	18.73	36.98	PASS
Band71	20MHz	16QAM	133222	100RB#0	21.39	18.75	36.98	PASS
Band71	20MHz	16QAM	133322	1RB#0	22.74	20.1	36.98	PASS
Band71	20MHz	16QAM	133322	1RB#49	22.62	19.98	36.98	PASS
Band71	20MHz	16QAM	133322	1RB#99	22.47	19.83	36.98	PASS
Band71	20MHz	16QAM	133322	50RB#0	21.46	18.82	36.98	PASS
Band71	20MHz	16QAM	133322	50RB#25	21.36	18.72	36.98	PASS
Band71	20MHz	16QAM	133322	50RB#50	21.33	18.71	36.98	PASS

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Band71	20MHz	16QAM	133322	50RB#50	21.36	18.72	36.98	PASS
Band71	20MHz	16QAM	133322	100RB#0	21.47	18.83	36.98	PASS
Band71	20MHz	16QAM	133372	1RB#0	22.63	19.99	36.98	PASS
Band71	20MHz	16QAM	133372	1RB#49	22.55	19.91	36.98	PASS
Band71	20MHz	16QAM	133372	1RB#99	22.35	19.71	36.98	PASS
Band71	20MHz	16QAM	133372	50RB#0	21.41	18.77	36.98	PASS
Band71	20MHz	16QAM	133372	50RB#25	21.42	18.78	36.98	PASS
Band71	20MHz	16QAM	133372	50RB#50	21.35	18.71	36.98	PASS
Band71	20MHz	16QAM	133372	100RB#0	21.42	18.78	36.98	PASS
Band71	20MHz	64QAM	133222	1RB#0	22.24	19.6	36.98	PASS
Band71	20MHz	64QAM	133222	1RB#49	22.10	19.46	36.98	PASS
Band71	20MHz	64QAM	133222	1RB#99	22.09	19.45	36.98	PASS
Band71	20MHz	64QAM	133222	50RB#0	21.15	18.51	36.98	PASS
Band71	20MHz	64QAM	133222	50RB#25	21.12	18.48	36.98	PASS
Band71	20MHz	64QAM	133222	50RB#50	21.17	18.53	36.98	PASS
Band71	20MHz	64QAM	133222	100RB#0	21.13	18.49	36.98	PASS
Band71	20MHz	64QAM	133322	1RB#0	22.46	19.82	36.98	PASS
Band71	20MHz	64QAM	133322	1RB#49	22.18	19.54	36.98	PASS
Band71	20MHz	64QAM	133322	1RB#99	22.06	19.42	36.98	PASS
Band71	20MHz	64QAM	133322	50RB#0	21.25	18.61	36.98	PASS
Band71	20MHz	64QAM	133322	50RB#25	21.13	18.49	36.98	PASS
Band71	20MHz	64QAM	133322	50RB#50	21.07	18.43	36.98	PASS
Band71	20MHz	64QAM	133322	100RB#0	21.18	18.54	36.98	PASS
Band71	20MHz	64QAM	133372	1RB#0	22.14	19.5	36.98	PASS
Band71	20MHz	64QAM	133372	1RB#49	22.14	19.5	36.98	PASS
Band71	20MHz	64QAM	133372	1RB#99	22.02	19.38	36.98	PASS
Band71	20MHz	64QAM	133372	50RB#0	21.15	18.51	36.98	PASS
Band71	20MHz	64QAM	133372	50RB#25	21.17	18.53	36.98	PASS
Band71	20MHz	64QAM	133372	50RB#50	21.15	18.51	36.98	PASS
Band71	20MHz	64QAM	133372	100RB#0	21.16	18.52	36.98	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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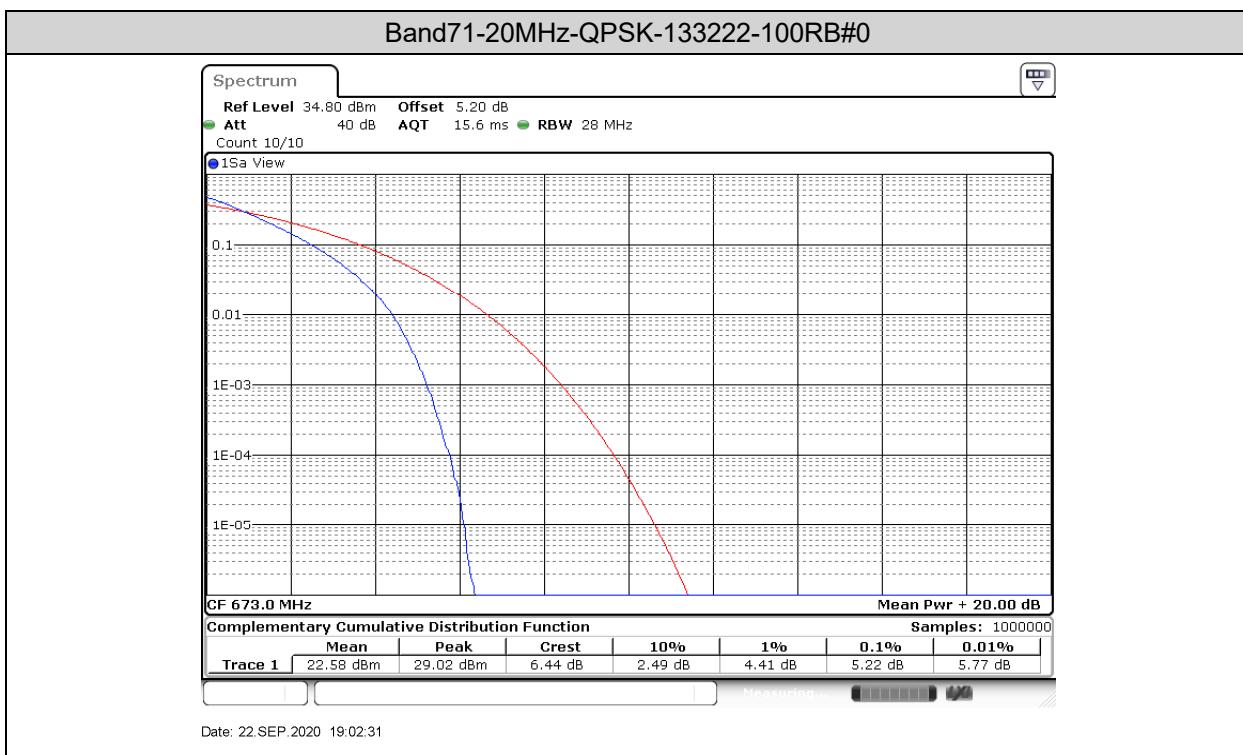
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2 Peak-to-Average Ratio (CCDF)

2.1 Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band71	20MHz	QPSK	133222	100RB#0	5.22	13	PASS
Band71	20MHz	QPSK	133322	100RB#0	4.99	13	PASS
Band71	20MHz	QPSK	133372	100RB#0	5.19	13	PASS
Band71	20MHz	16QAM	133222	100RB#0	6.03	13	PASS
Band71	20MHz	16QAM	133322	100RB#0	5.91	13	PASS
Band71	20MHz	16QAM	133372	100RB#0	6.00	13	PASS
Band71	20MHz	64QAM	133222	100RB#0	6.52	13	PASS
Band71	20MHz	64QAM	133322	100RB#0	6.43	13	PASS
Band71	20MHz	64QAM	133372	100RB#0	6.49	13	PASS

2.2 Test Plots

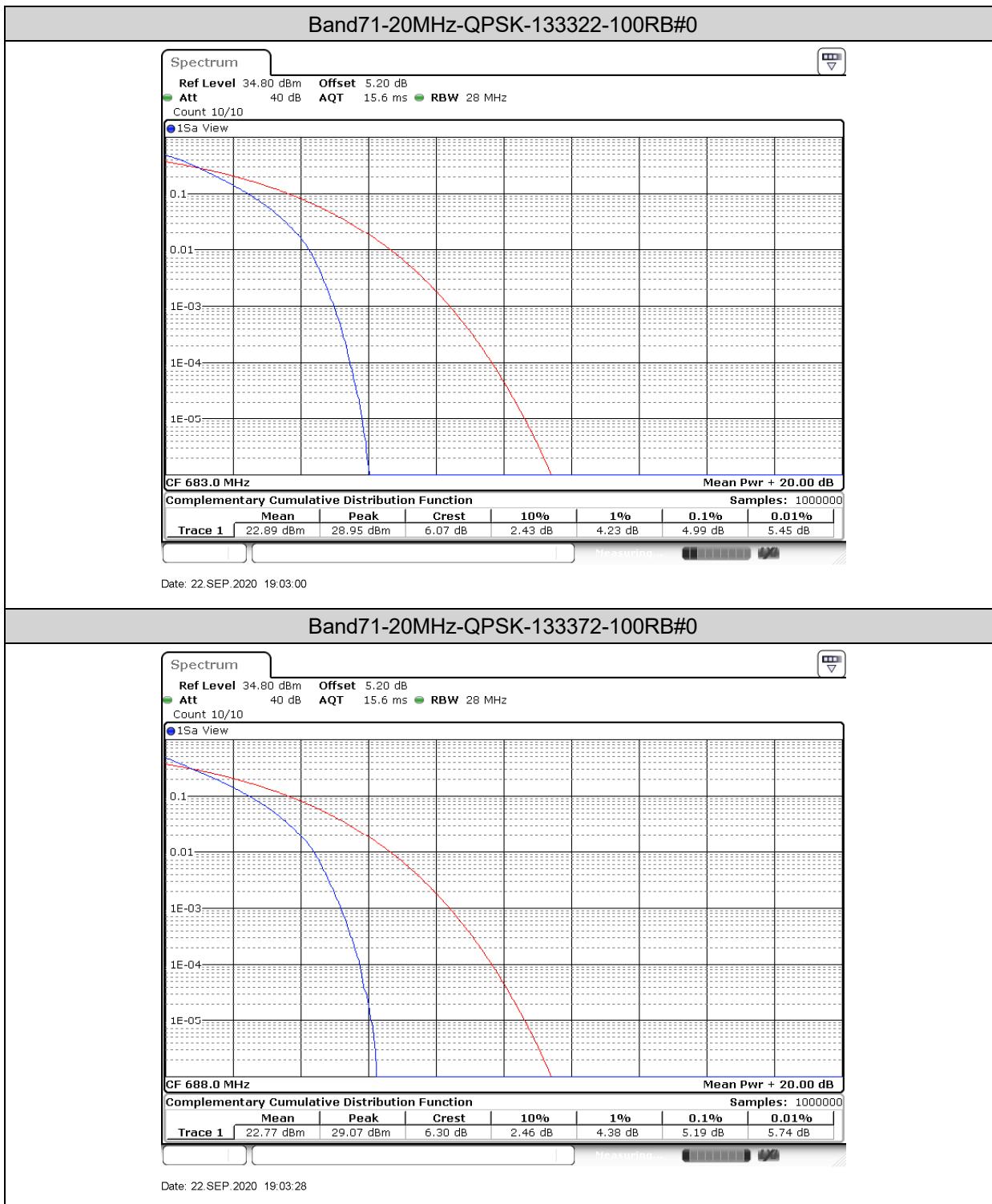


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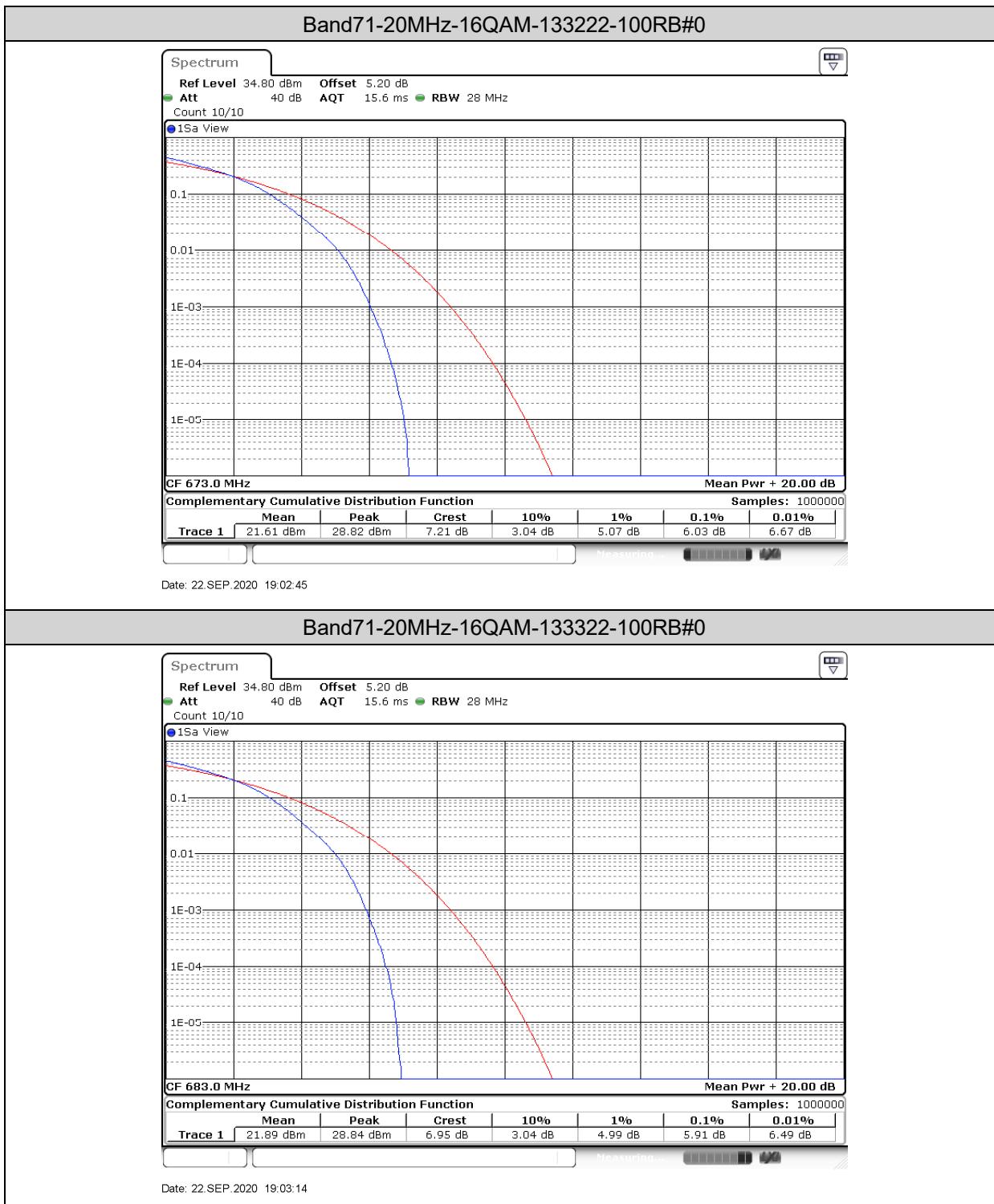


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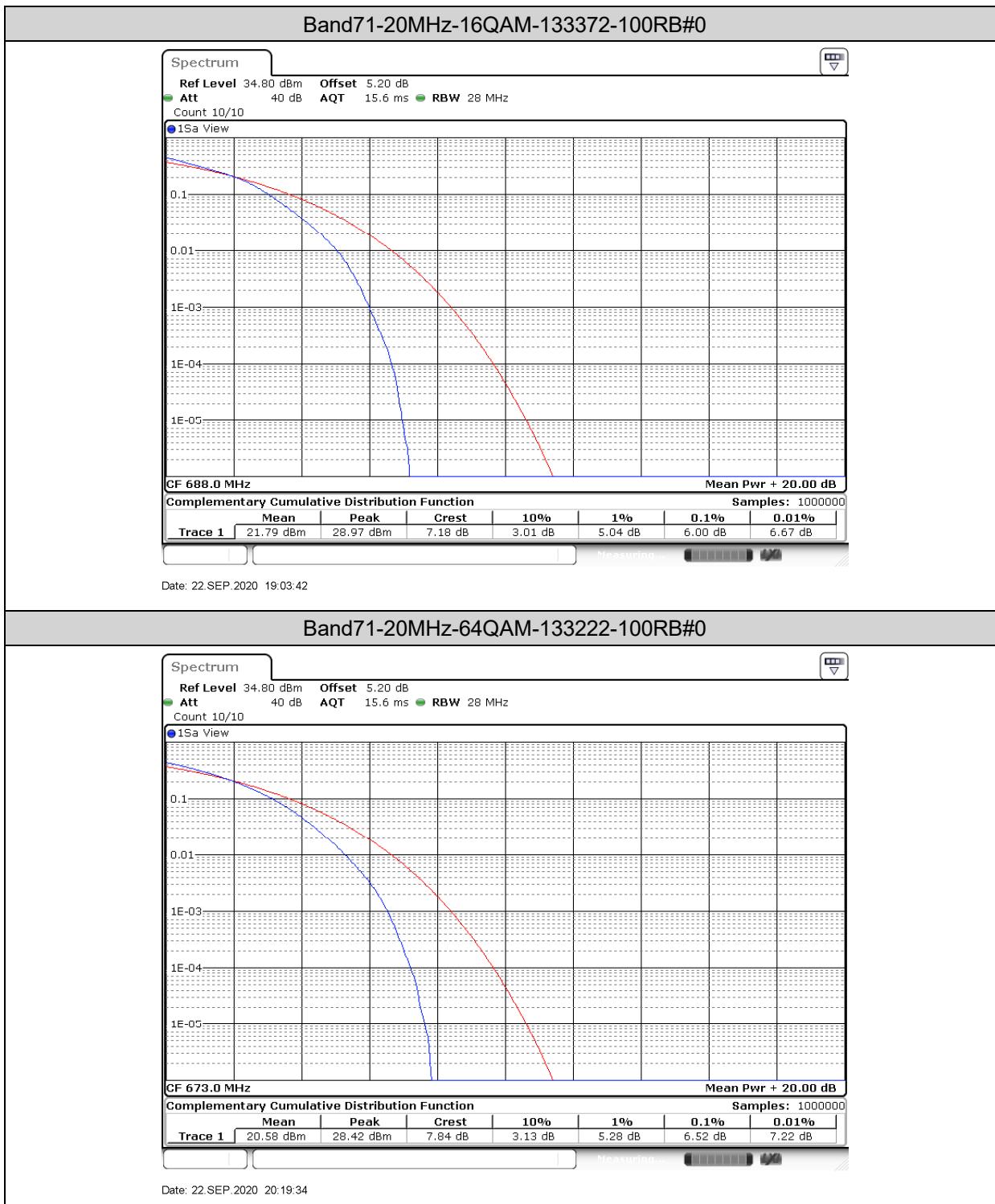
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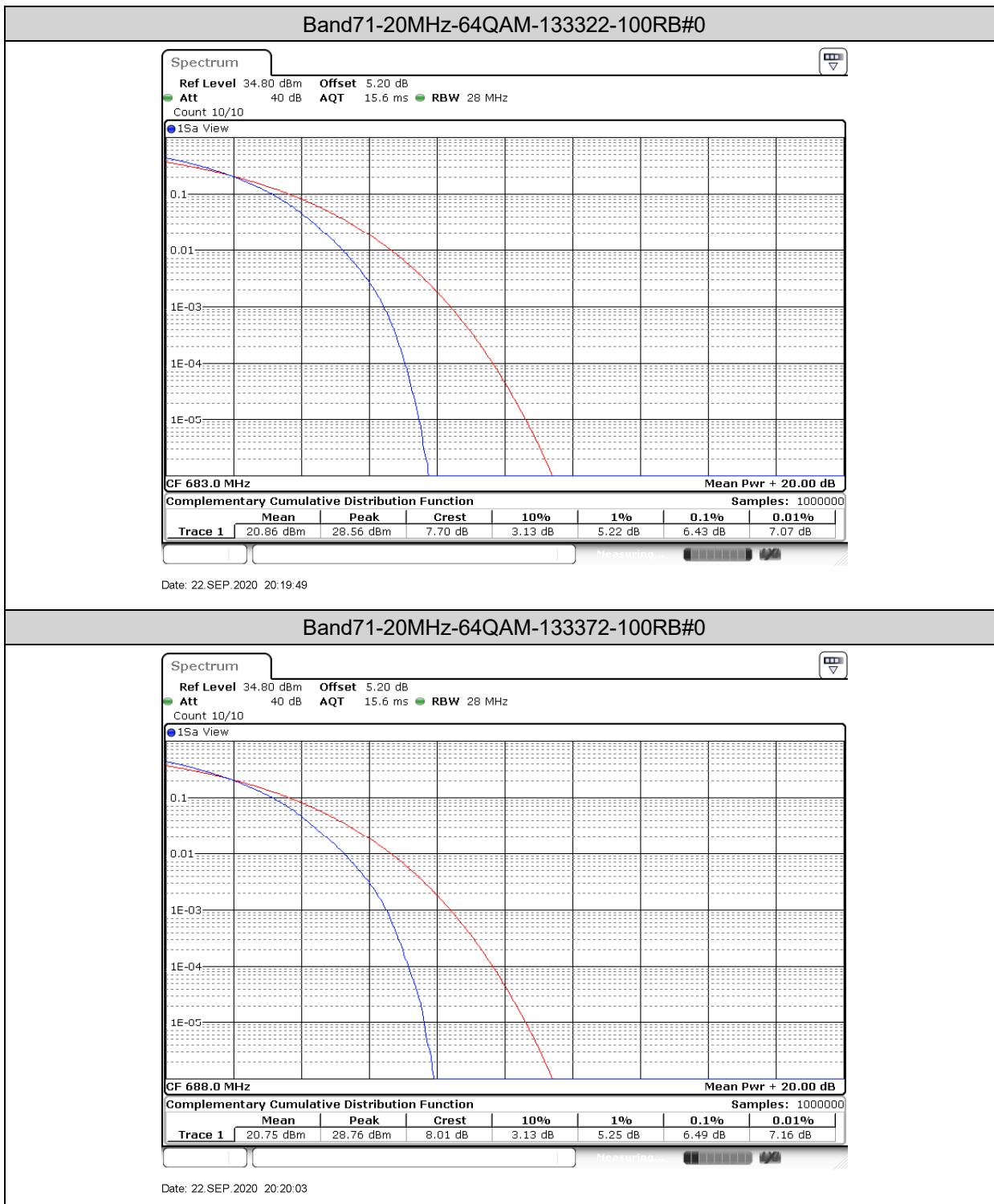
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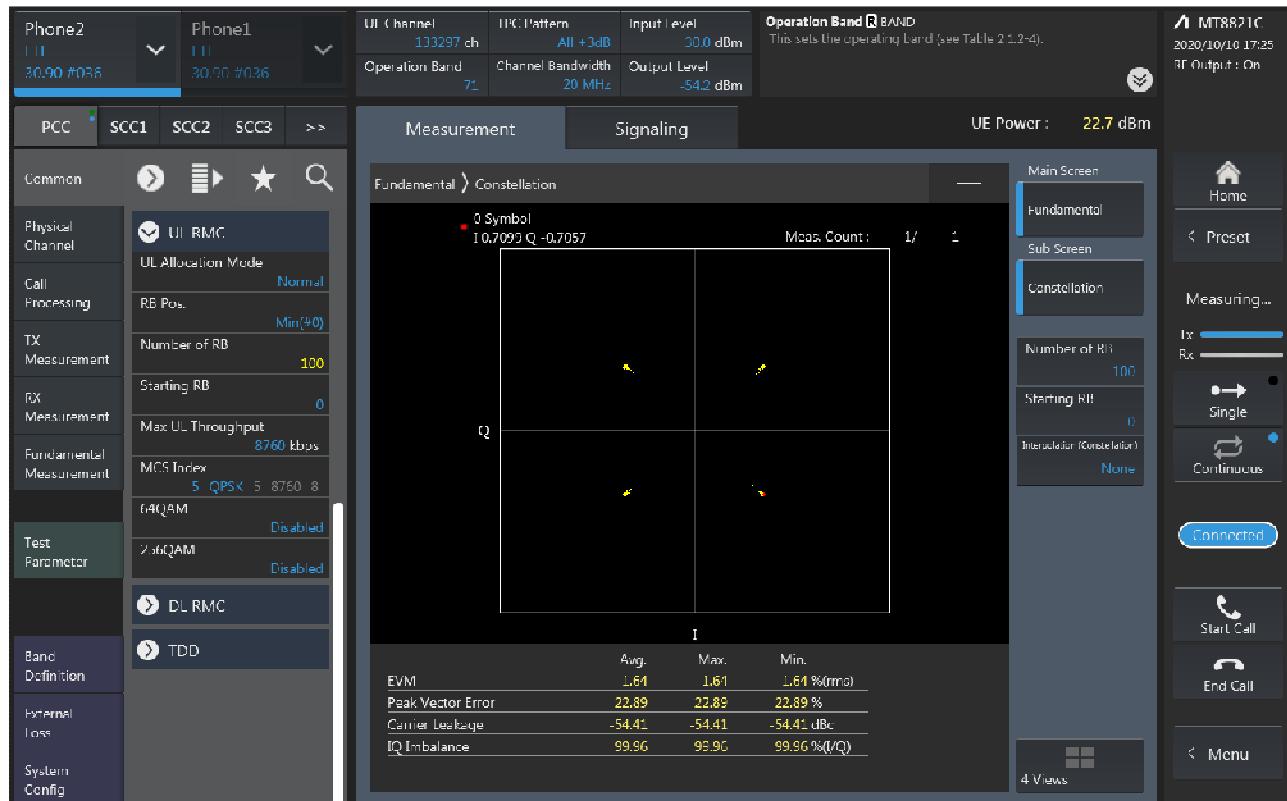


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3 Modulation Characteristics

3.1 Test Mode = LTE /TM1 20MHz

3.1.1 Test Channel = MCH



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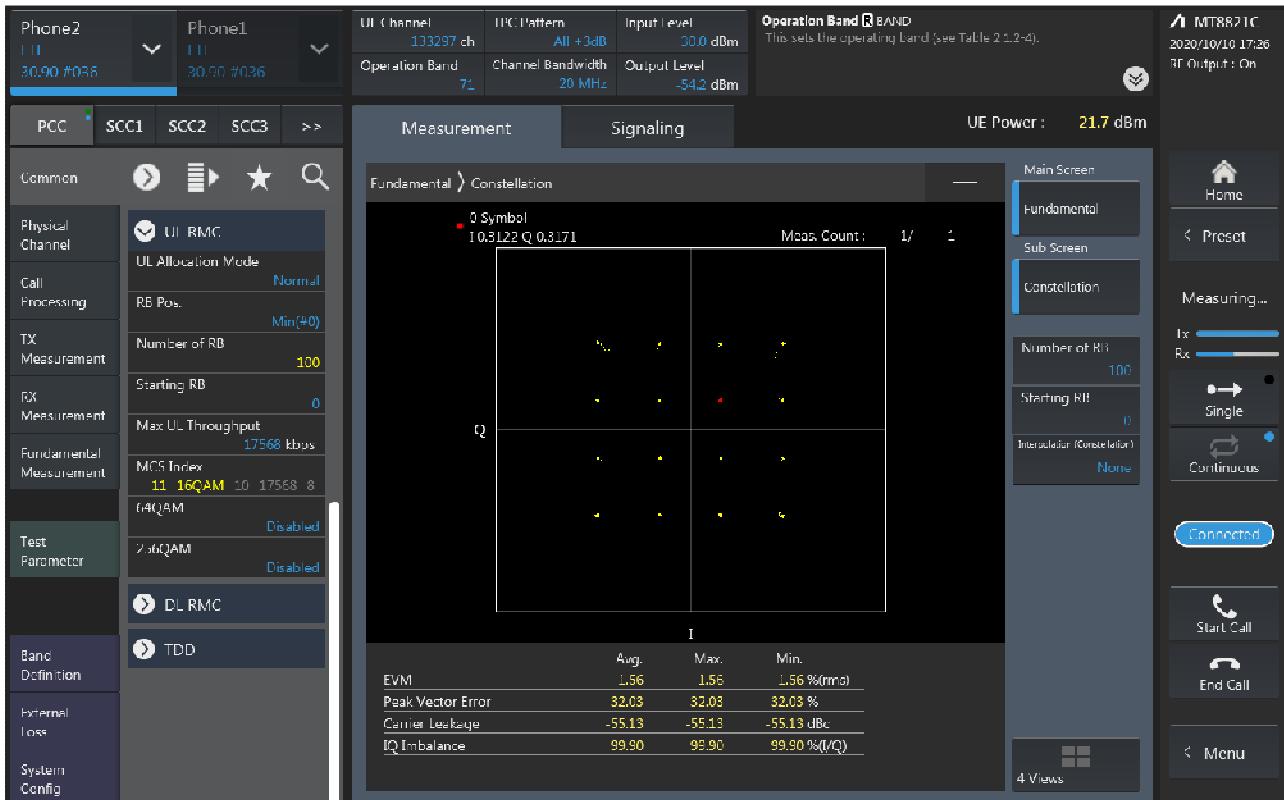


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3.2 Test Mode = LTE /TM2 20MHz

3.2.1 Test Channel = MCH



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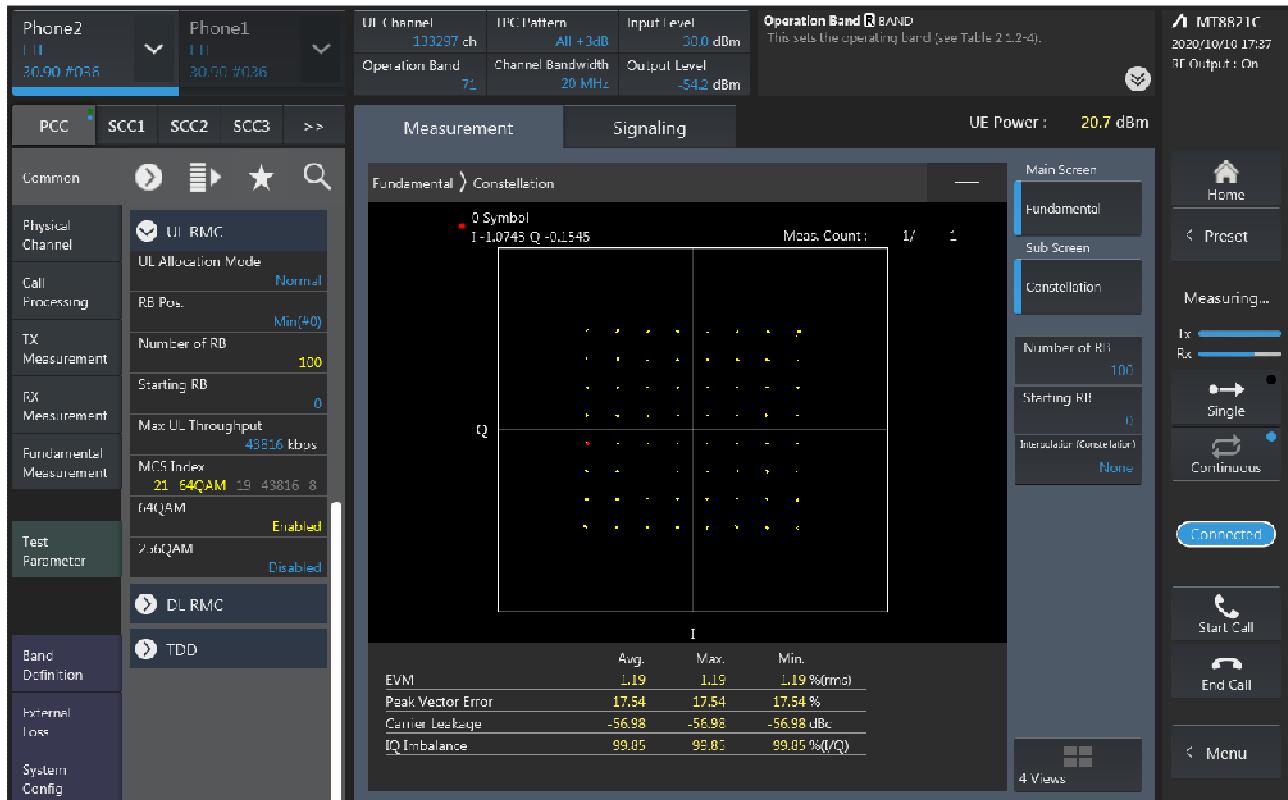


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3.3 Test Mode = LTE /TM3 20MHz

3.3.1 Test Channel = MCH



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4 26dB Bandwidth and Occupied Bandwidth

4.1 Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band71	5MHz	QPSK	133147	25RB#0	4.466	4.890	PASS
Band71	5MHz	QPSK	133297	25RB#0	4.476	4.900	PASS
Band71	5MHz	QPSK	133447	25RB#0	4.466	4.910	PASS
Band71	5MHz	16QAM	133147	25RB#0	4.486	4.920	PASS
Band71	5MHz	16QAM	133297	25RB#0	4.476	4.920	PASS
Band71	5MHz	16QAM	133447	25RB#0	4.486	4.930	PASS
Band71	5MHz	64QAM	133147	25RB#0	4.466	4.860	PASS
Band71	5MHz	64QAM	133297	25RB#0	4.476	4.880	PASS
Band71	5MHz	64QAM	133447	25RB#0	4.466	4.900	PASS
Band71	10MHz	QPSK	133172	50RB#0	8.911	9.620	PASS
Band71	10MHz	QPSK	133297	50RB#0	8.911	9.640	PASS
Band71	10MHz	QPSK	133422	50RB#0	8.931	9.660	PASS
Band71	10MHz	16QAM	133172	50RB#0	8.931	9.700	PASS
Band71	10MHz	16QAM	133297	50RB#0	8.911	9.680	PASS
Band71	10MHz	16QAM	133422	50RB#0	8.931	9.700	PASS
Band71	10MHz	64QAM	133172	50RB#0	8.911	9.620	PASS
Band71	10MHz	64QAM	133297	50RB#0	8.911	9.600	PASS
Band71	10MHz	64QAM	133422	50RB#0	8.951	9.620	PASS
Band71	15MHz	QPSK	133197	75RB#0	13.457	14.700	PASS
Band71	15MHz	QPSK	133297	75RB#0	13.427	14.700	PASS
Band71	15MHz	QPSK	133397	75RB#0	13.487	14.700	PASS
Band71	15MHz	16QAM	133197	75RB#0	13.457	14.760	PASS
Band71	15MHz	16QAM	133297	75RB#0	13.427	14.700	PASS
Band71	15MHz	16QAM	133397	75RB#0	13.487	14.790	PASS
Band71	15MHz	64QAM	133197	75RB#0	13.457	14.760	PASS
Band71	15MHz	64QAM	133297	75RB#0	13.427	14.730	PASS
Band71	15MHz	64QAM	133397	75RB#0	13.457	14.850	PASS
Band71	20MHz	QPSK	133222	100RB#0	17.862	19.280	PASS
Band71	20MHz	QPSK	133322	100RB#0	17.822	19.360	PASS
Band71	20MHz	QPSK	133372	100RB#0	17.862	19.360	PASS
Band71	20MHz	16QAM	133222	100RB#0	17.942	19.360	PASS

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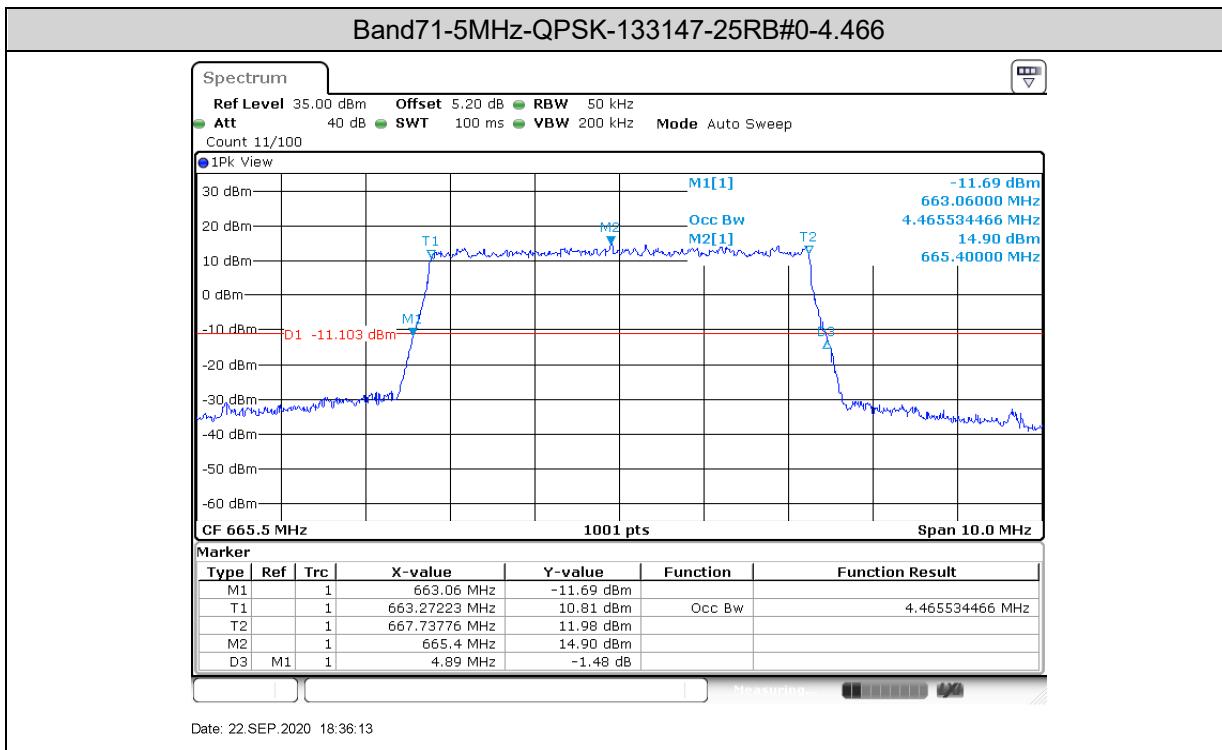
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Band71	20MHz	16QAM	133322	100RB#0	17.822	19.360	PASS
Band71	20MHz	16QAM	133372	100RB#0	17.902	19.400	PASS
Band71	20MHz	64QAM	133222	100RB#0	17.902	19.360	PASS
Band71	20MHz	64QAM	133322	100RB#0	17.822	19.320	PASS
Band71	20MHz	64QAM	133372	100RB#0	17.902	19.360	PASS

4.2 Test Plots

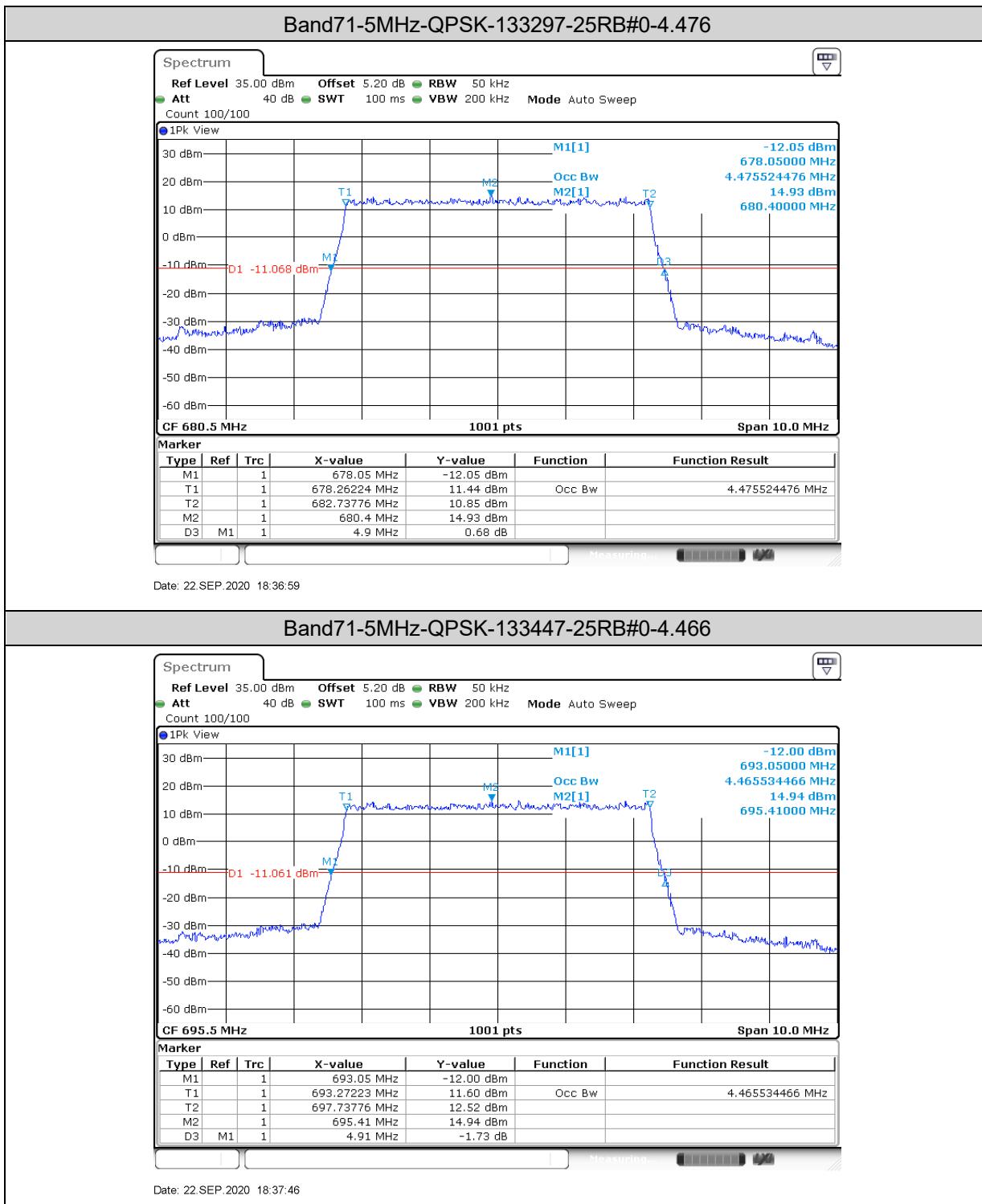


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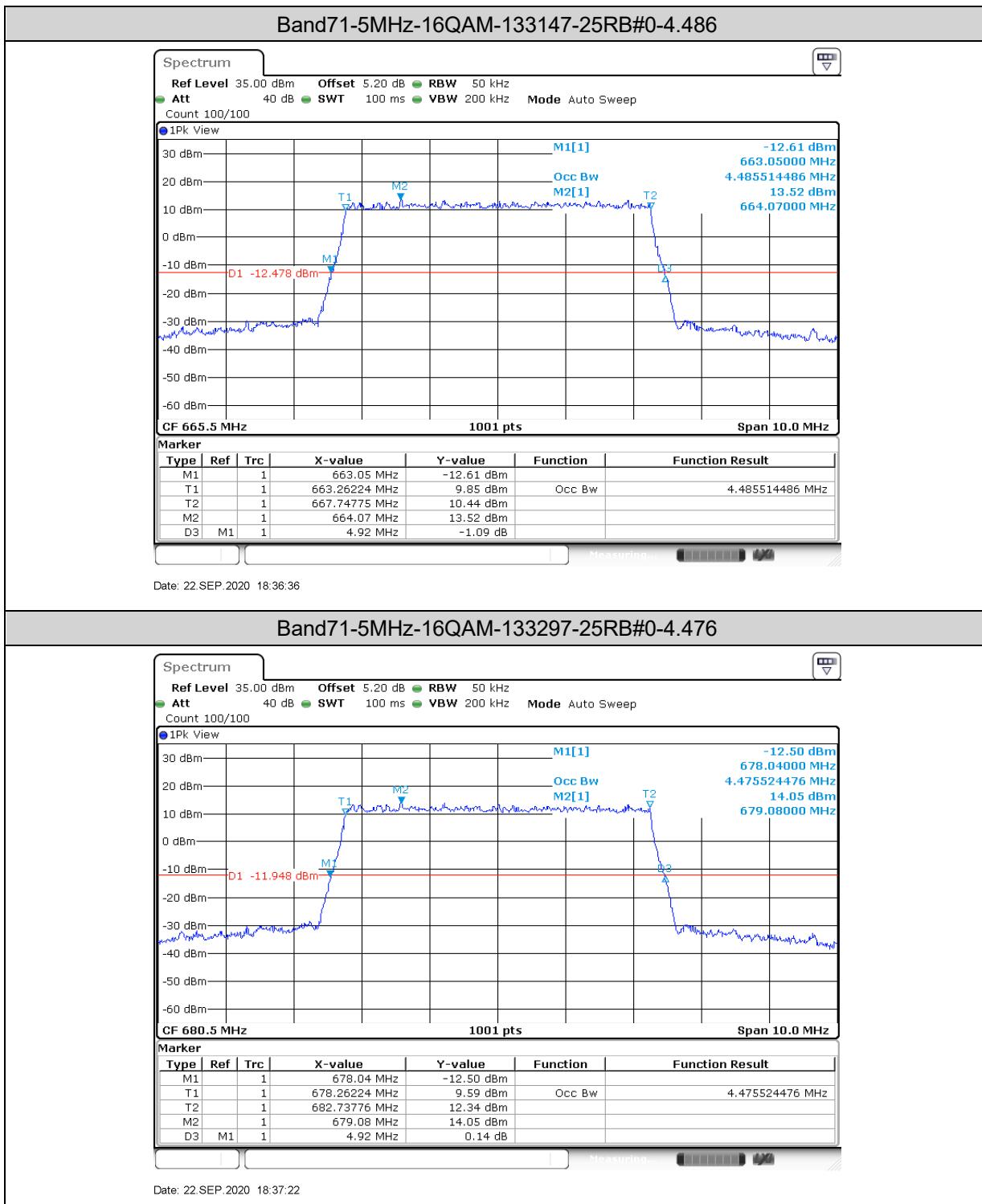


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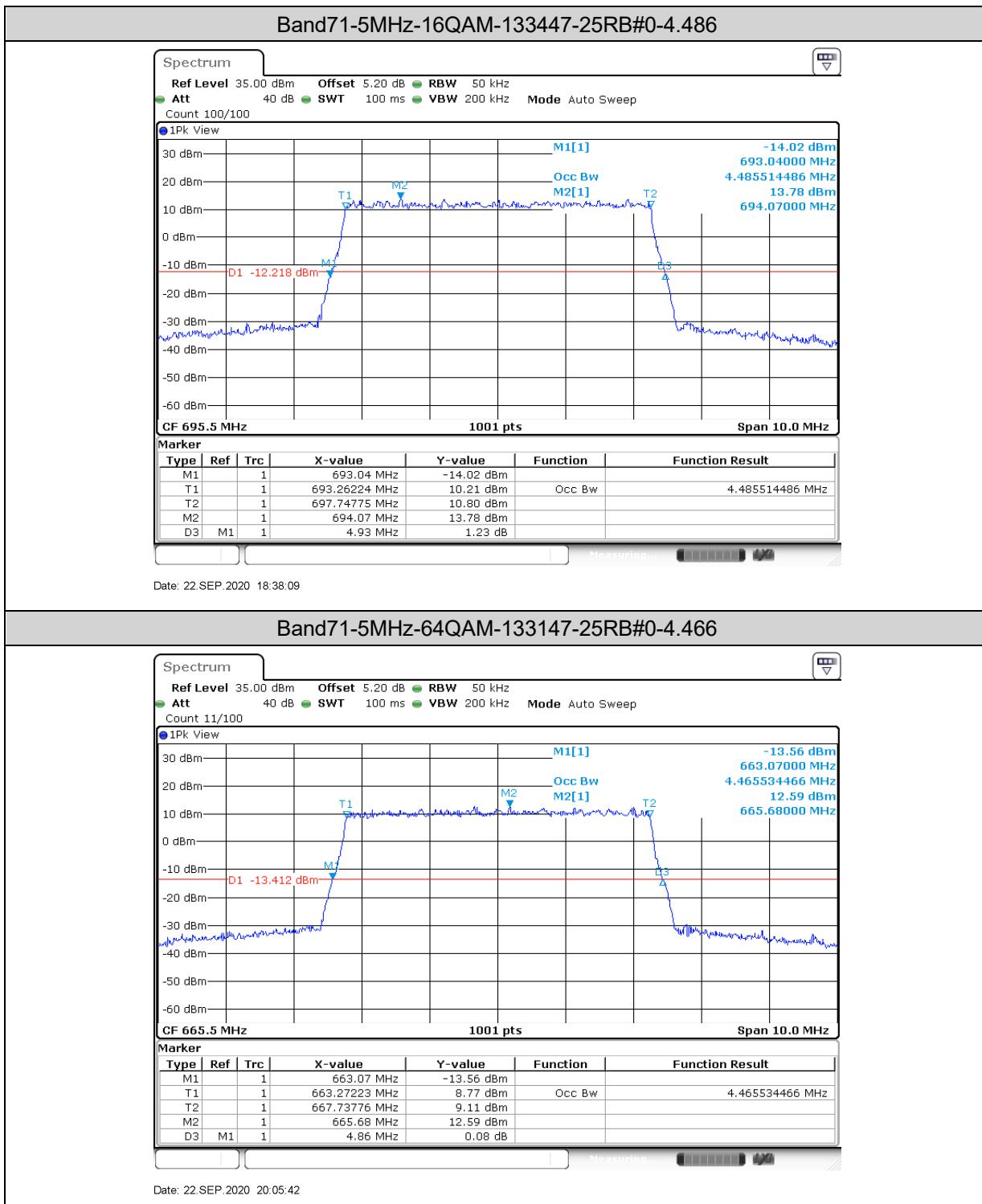
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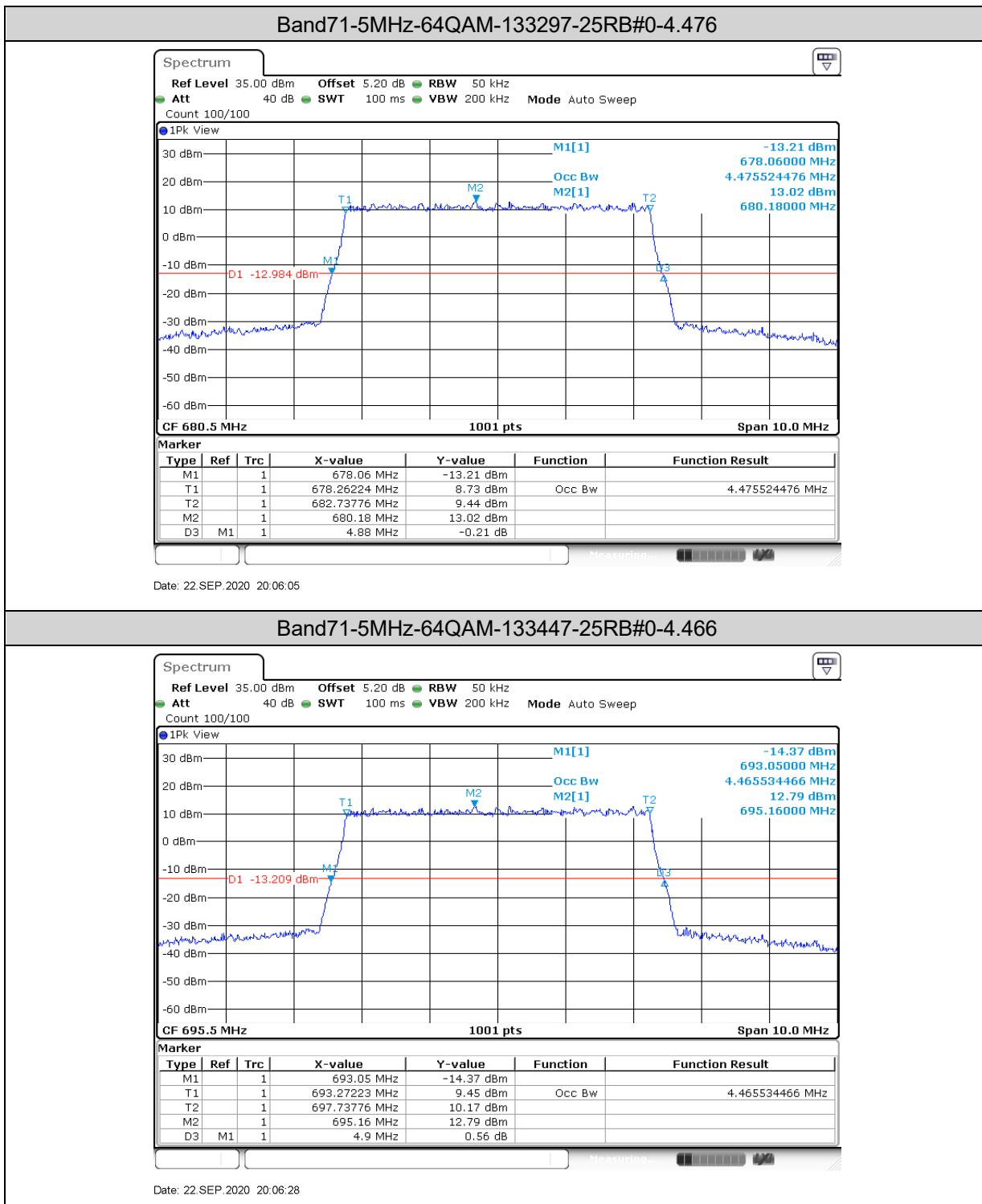


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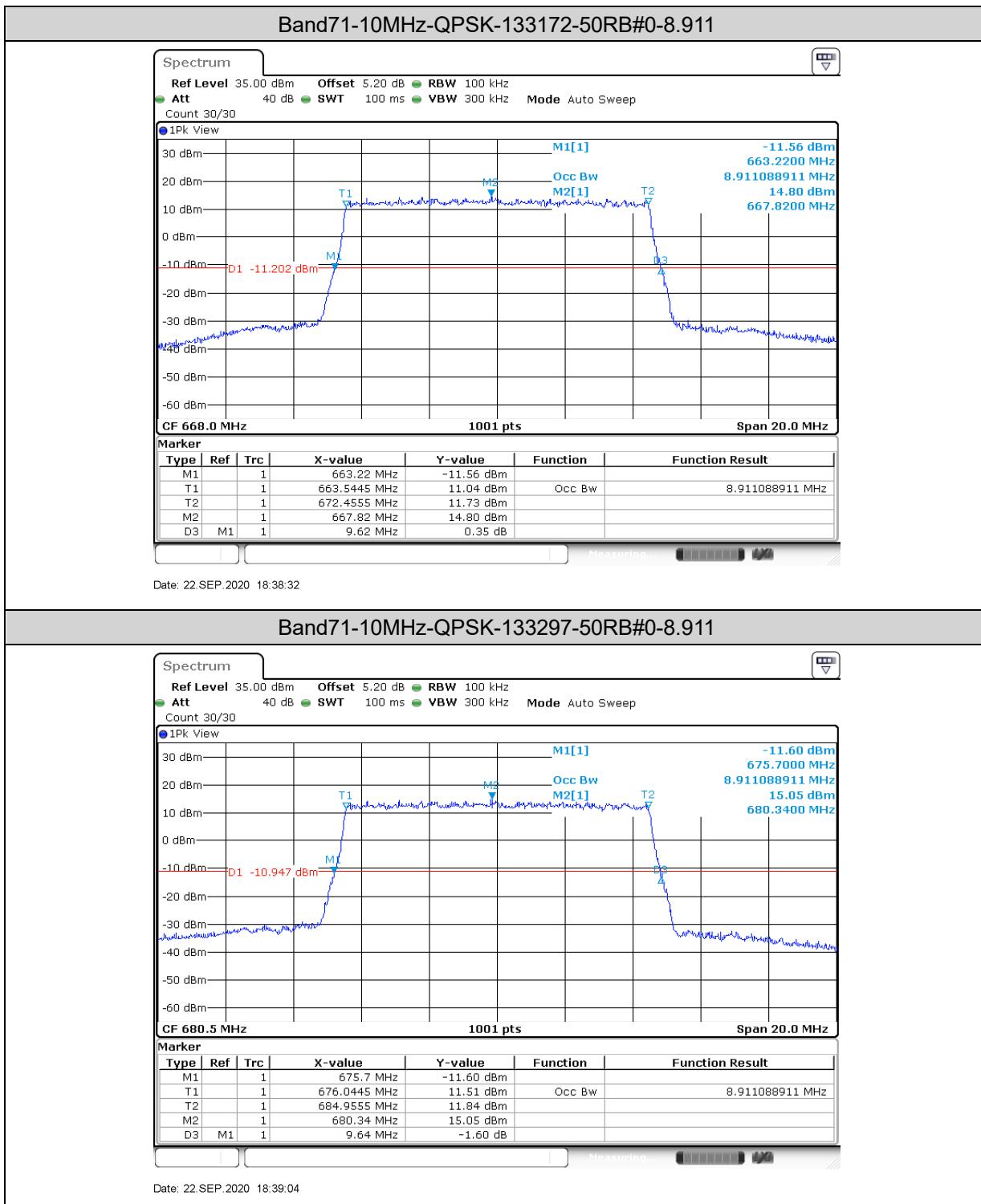
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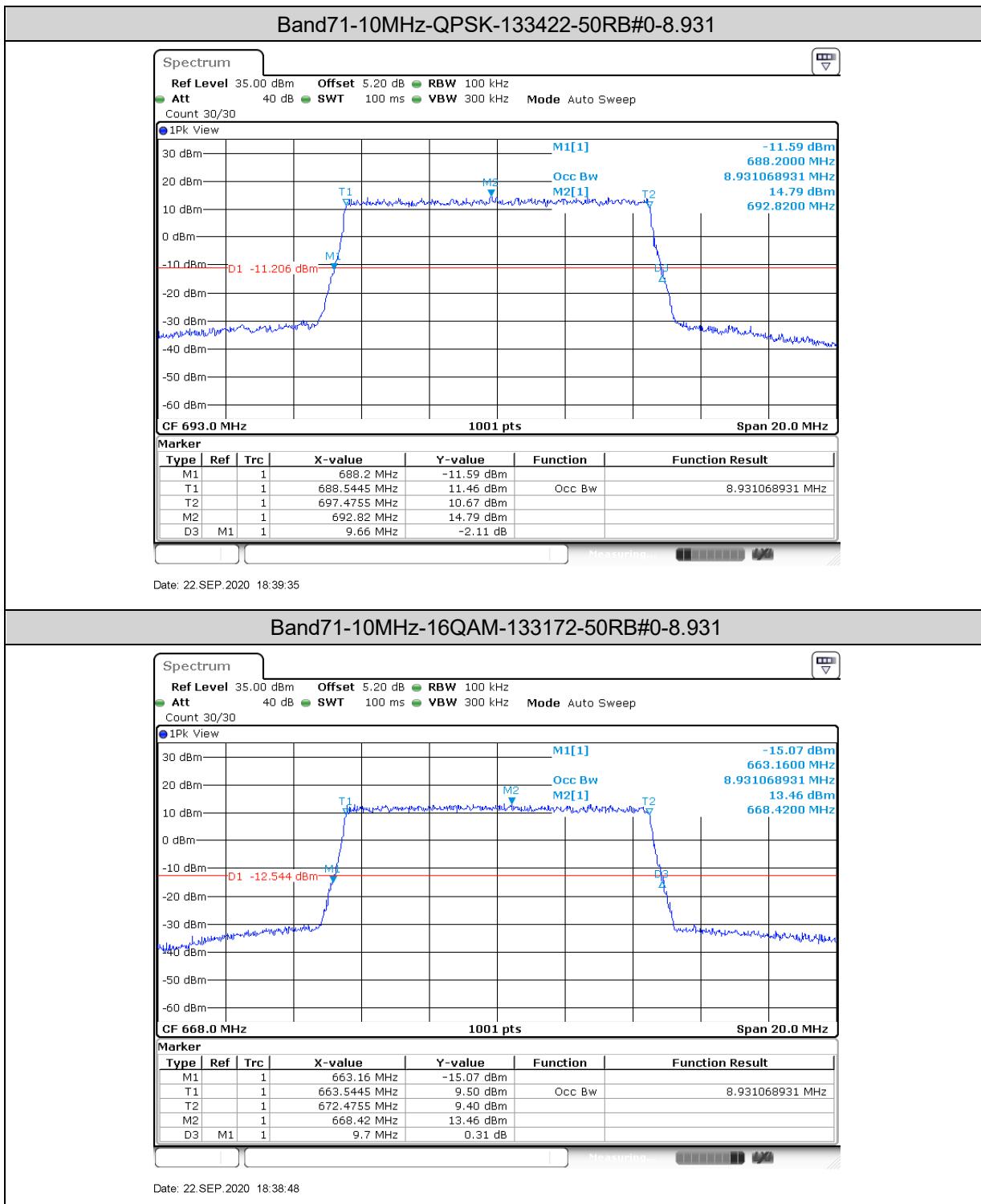


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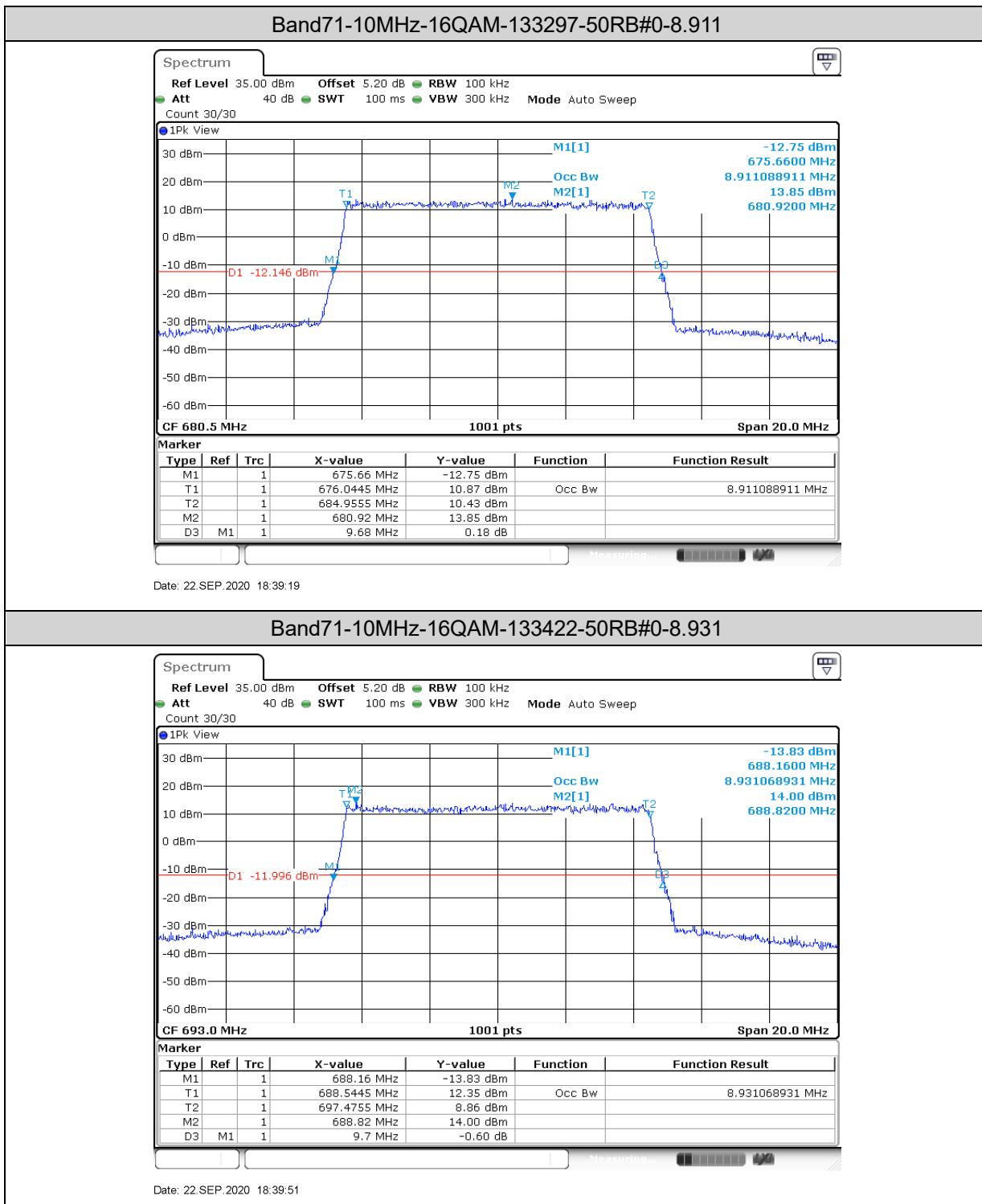
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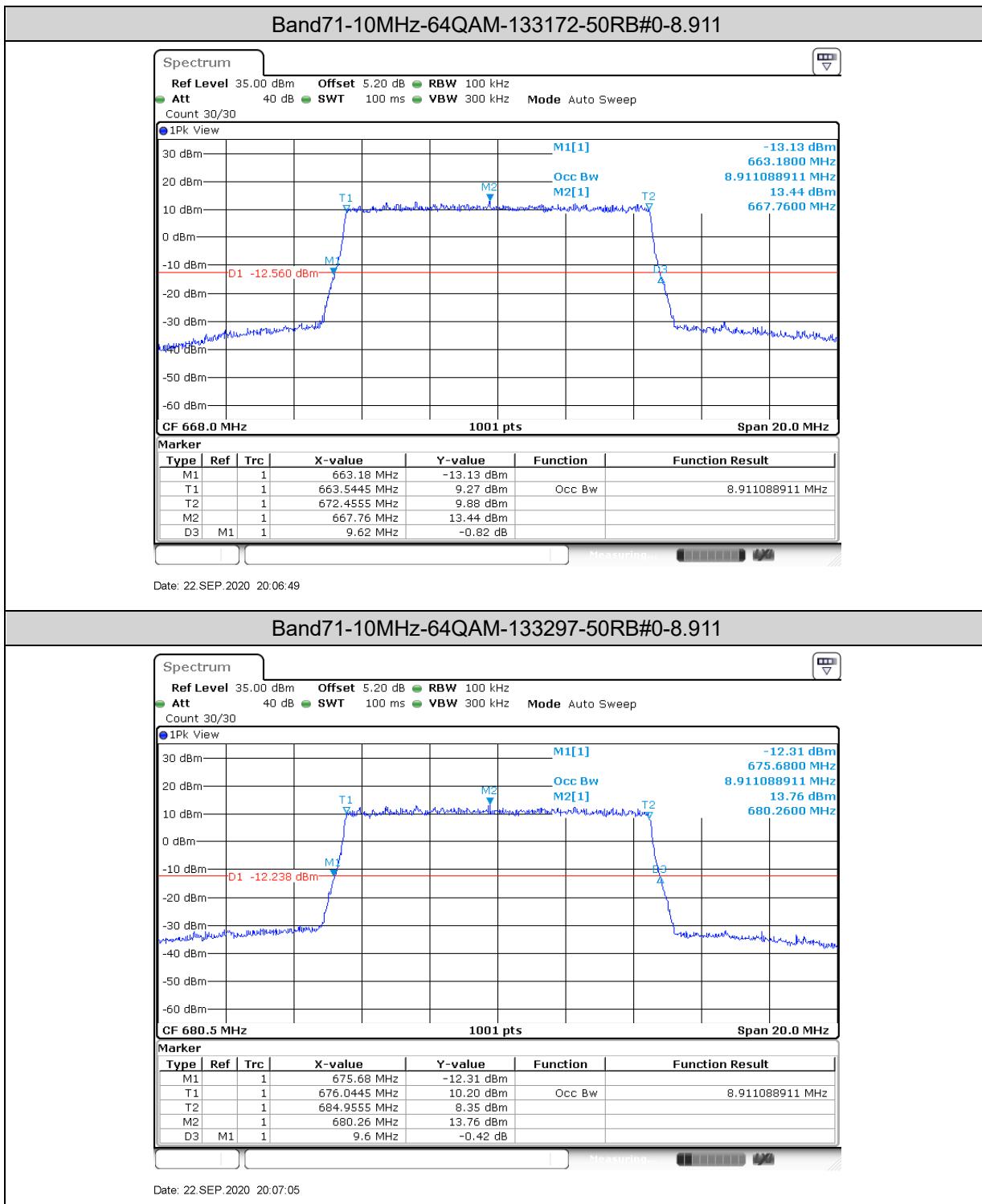


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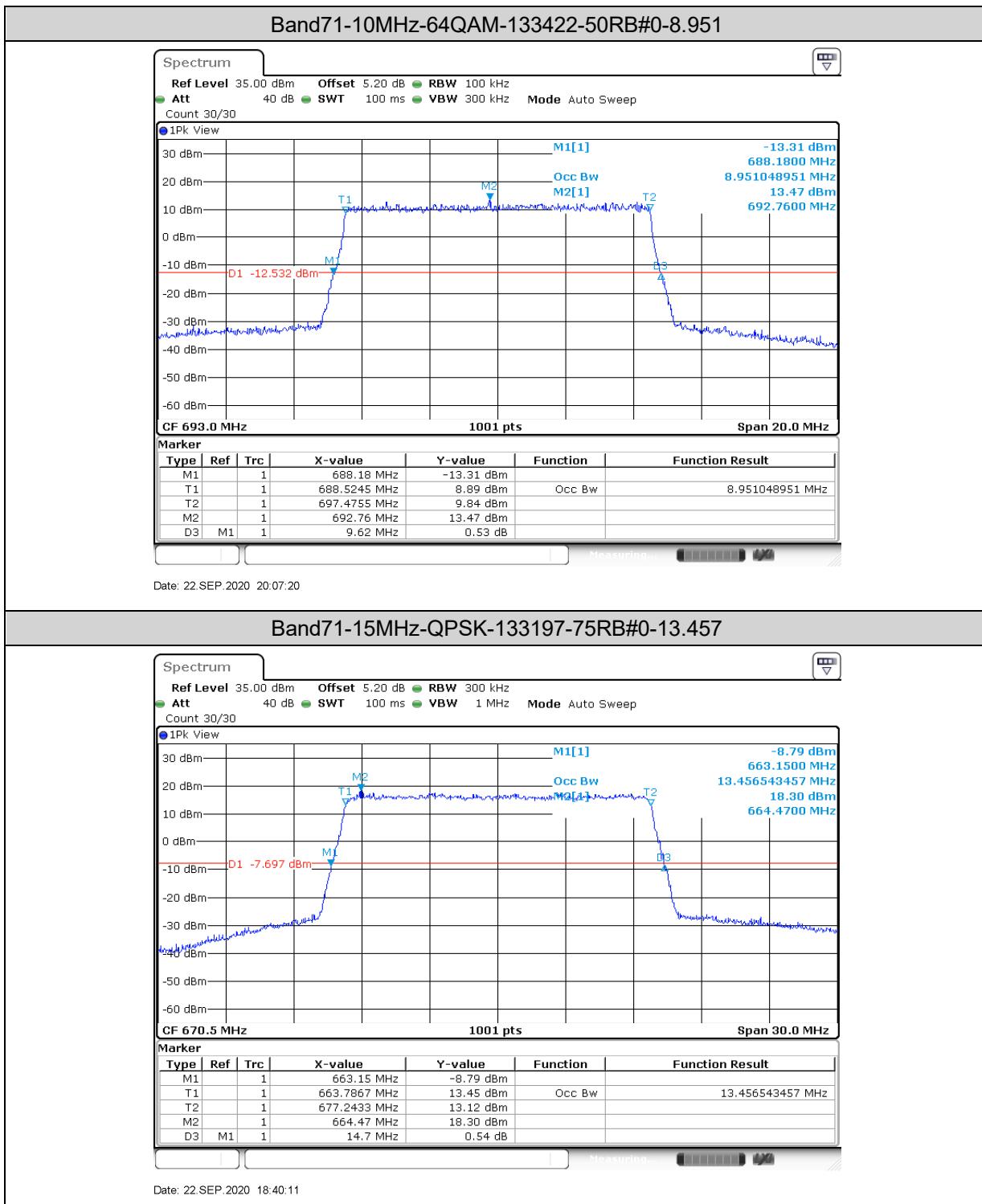


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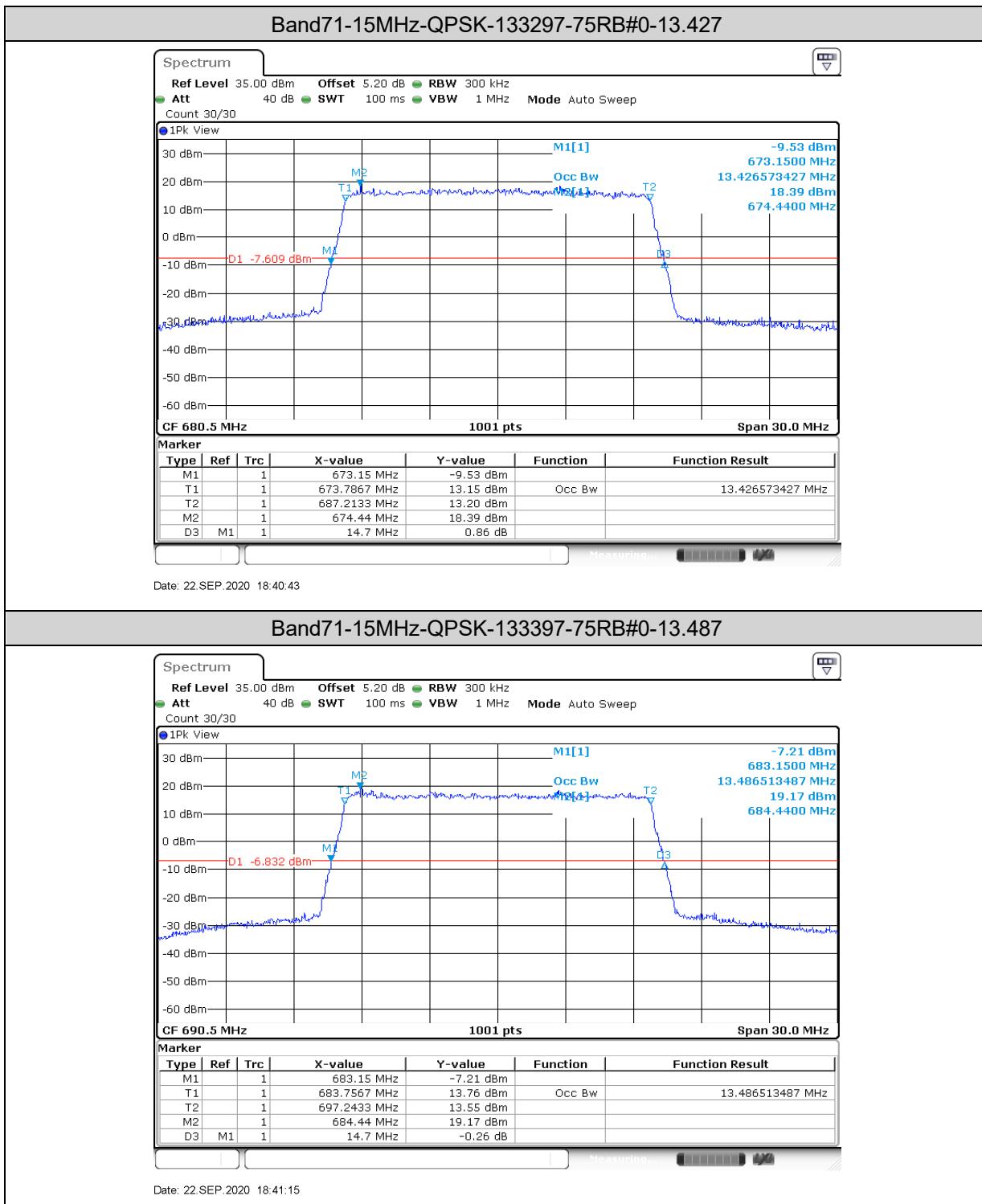


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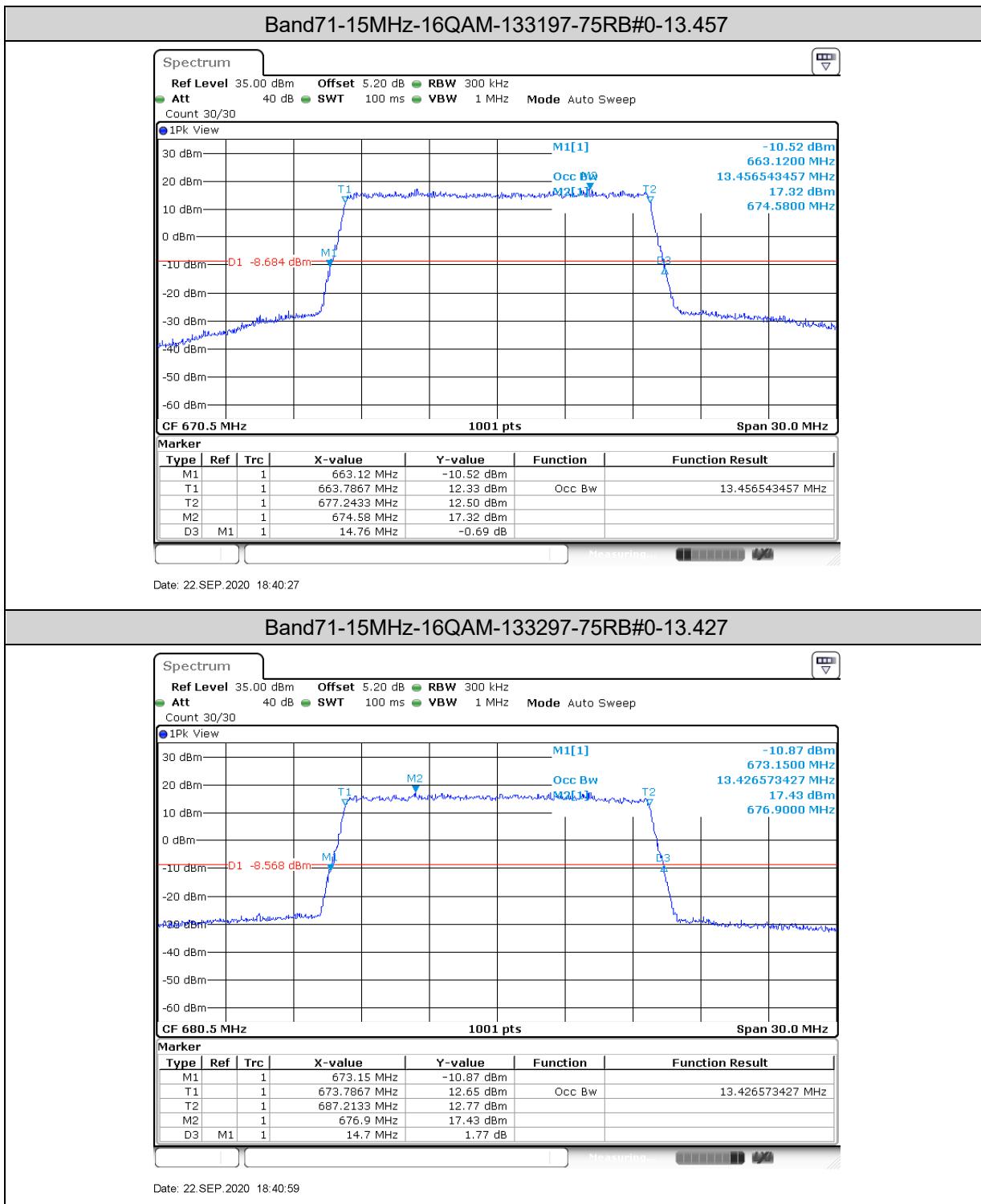


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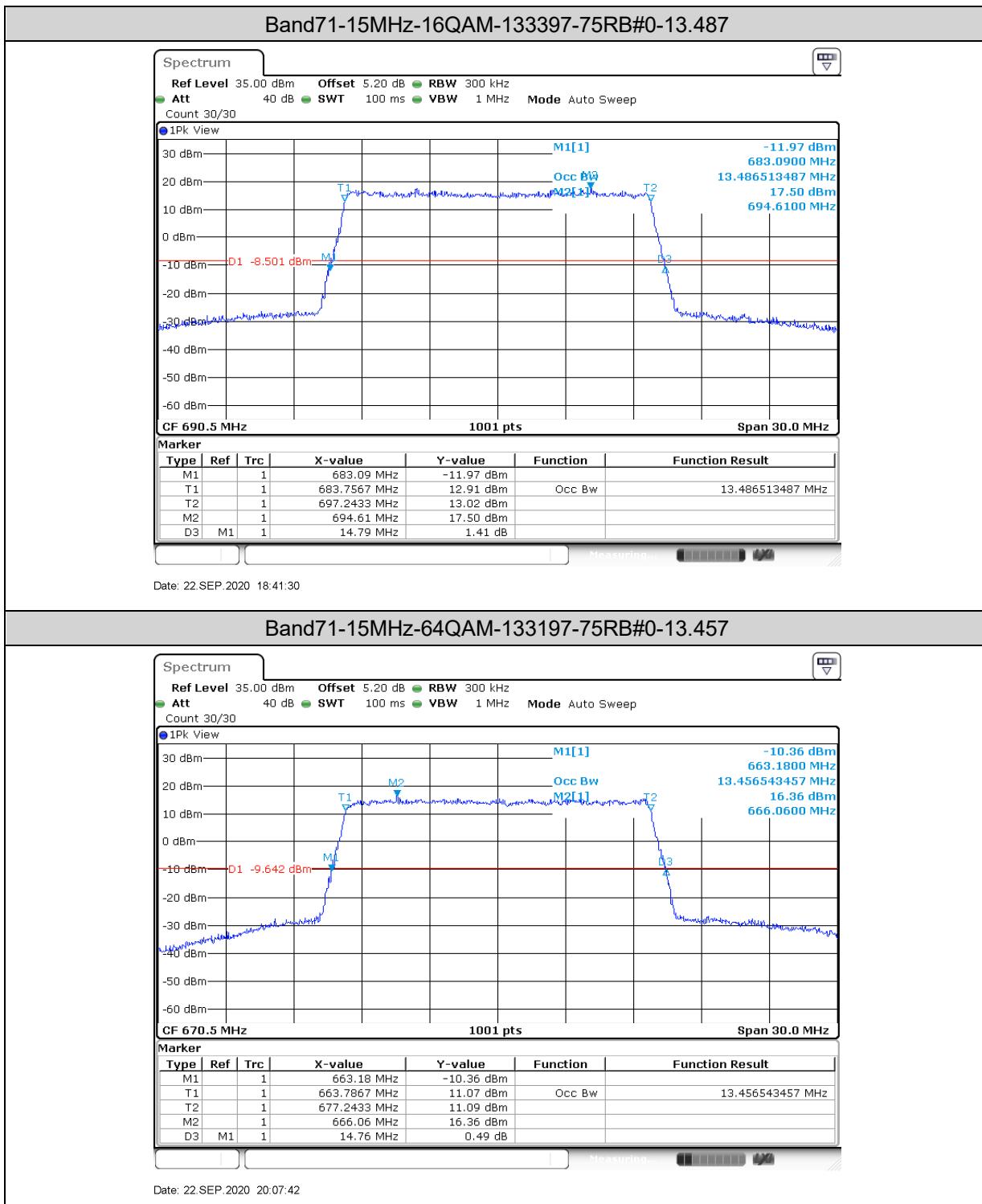


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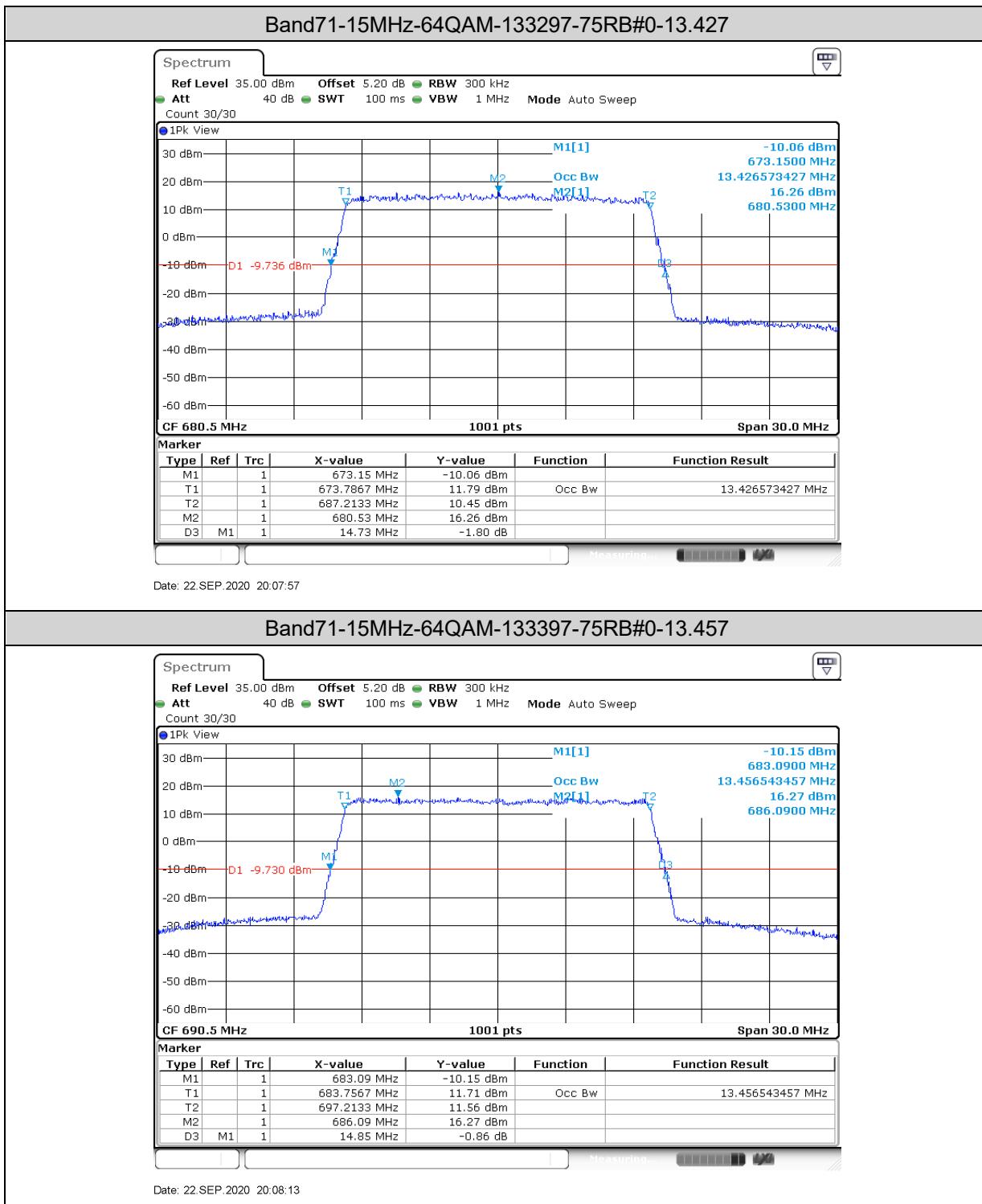


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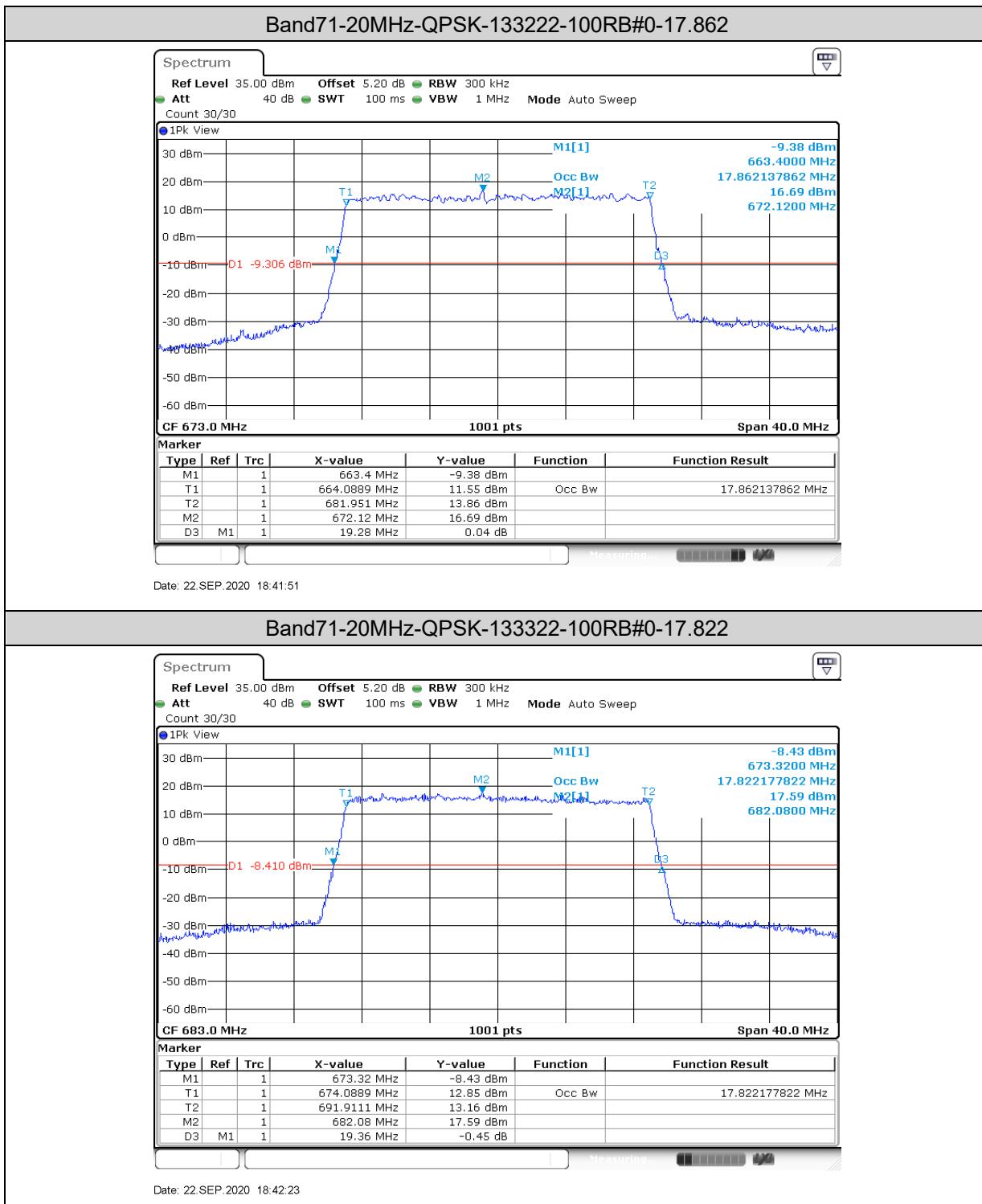


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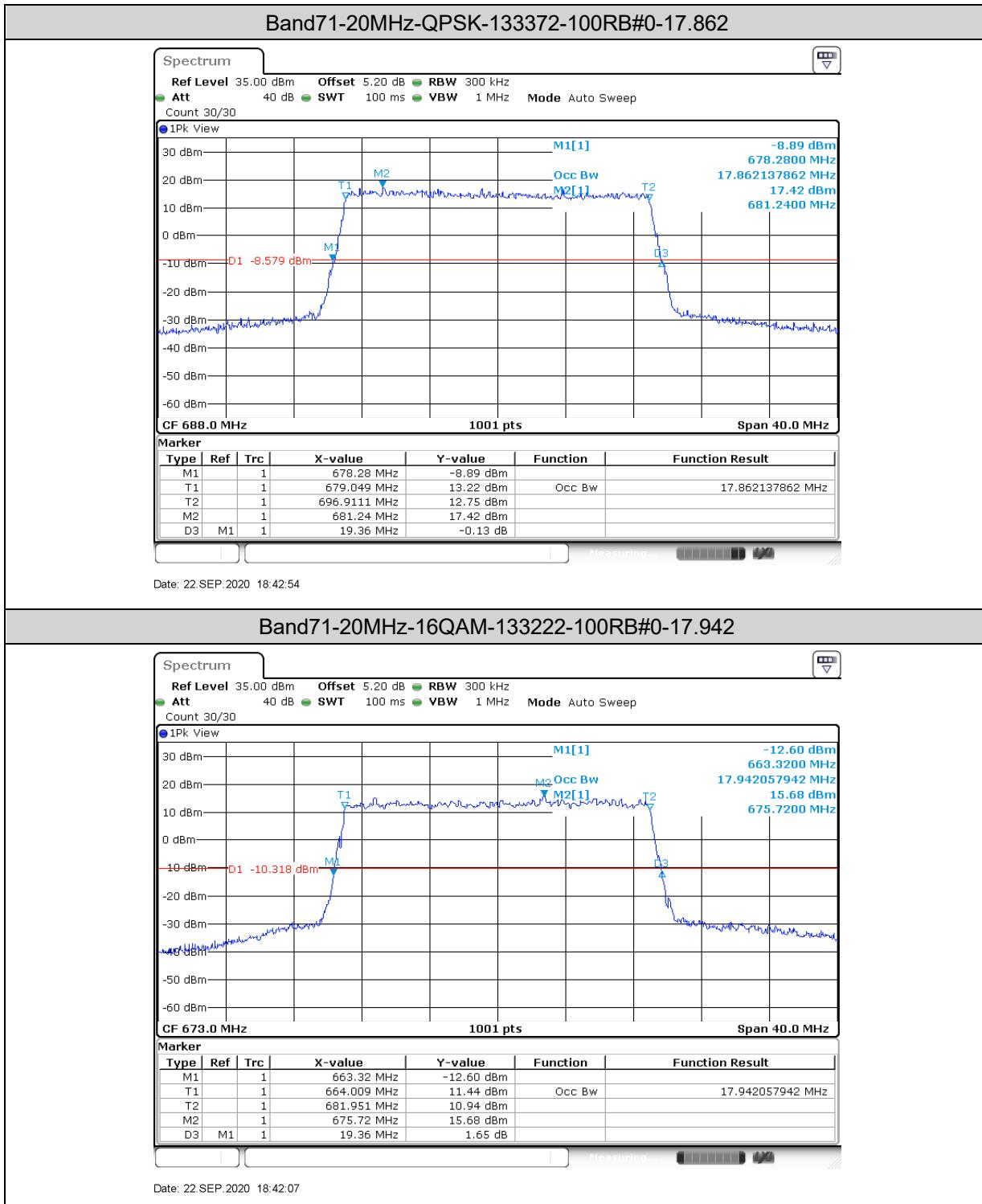


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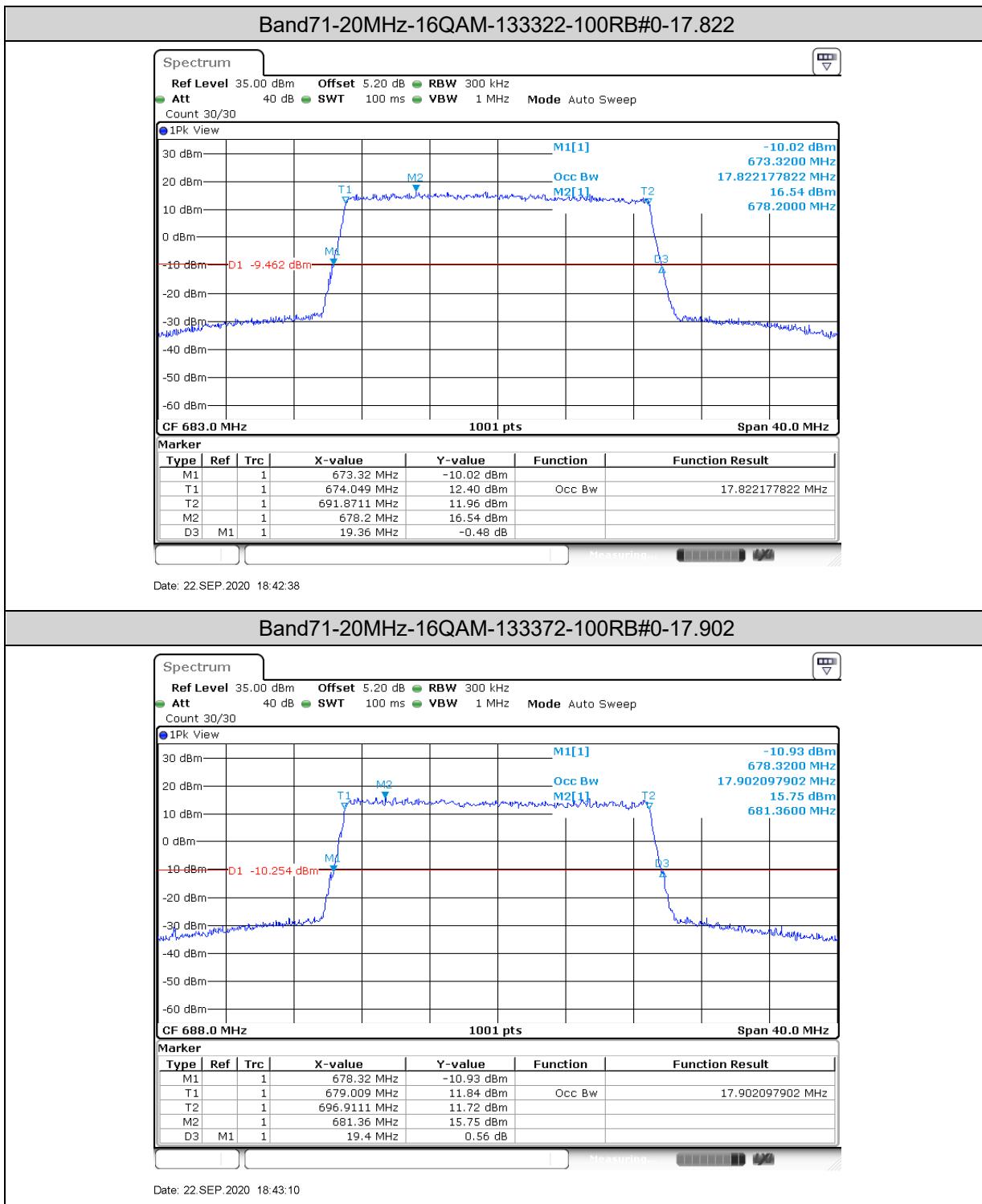


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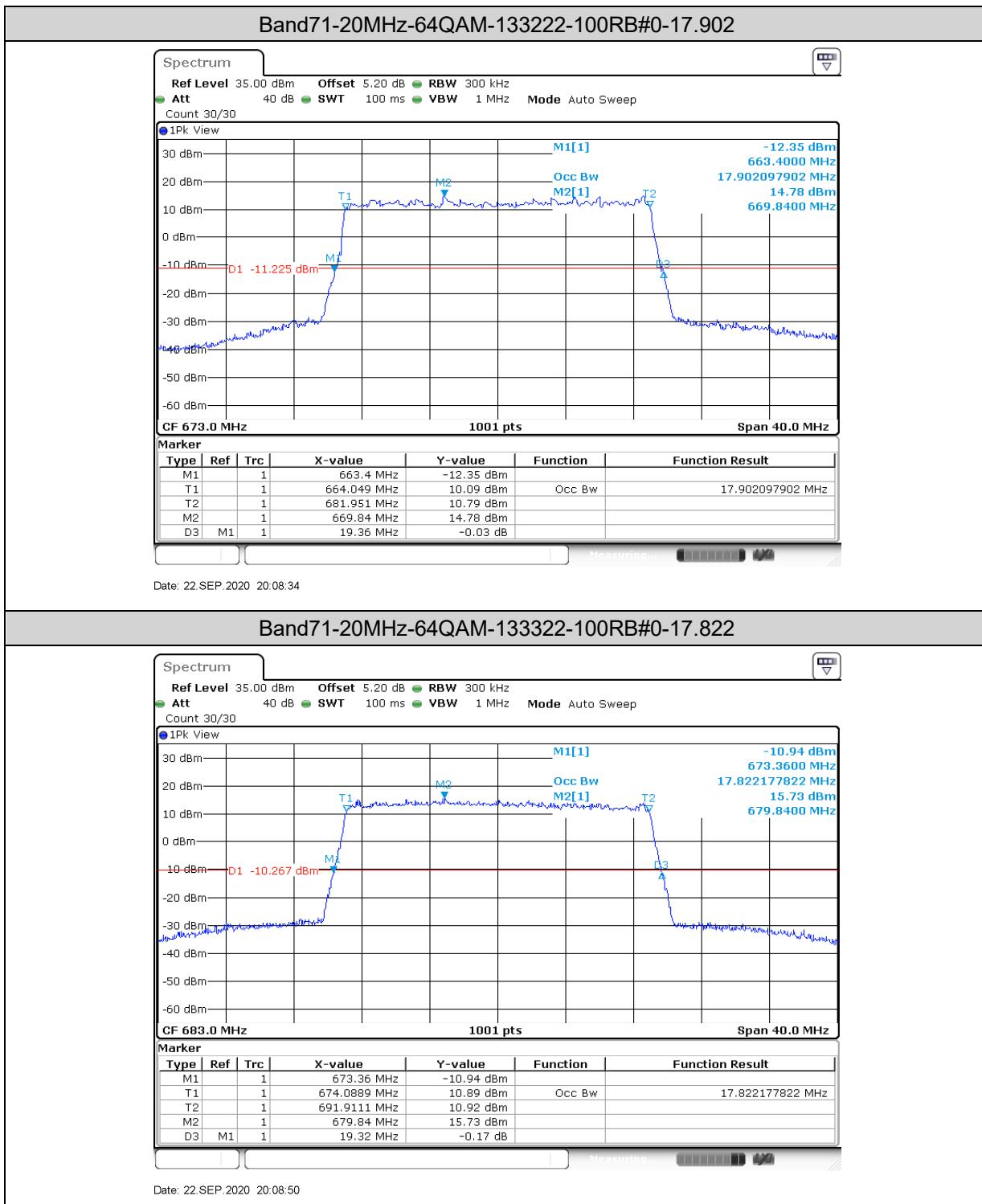


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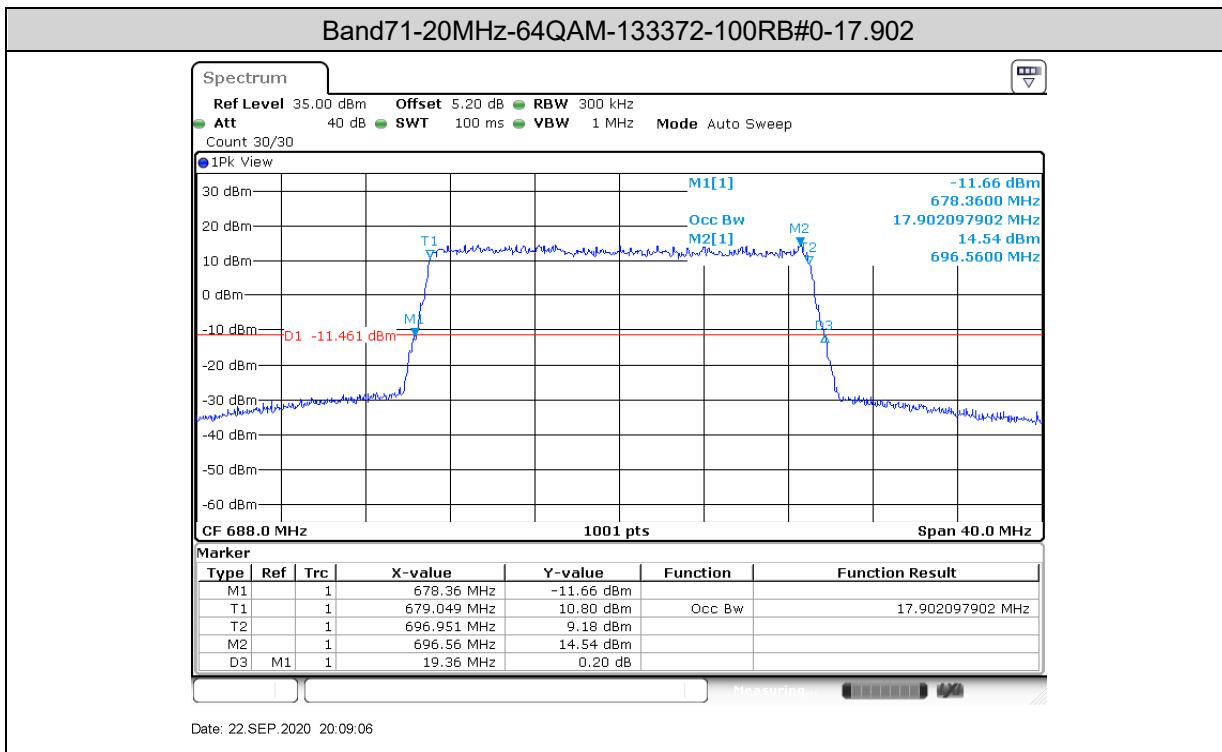
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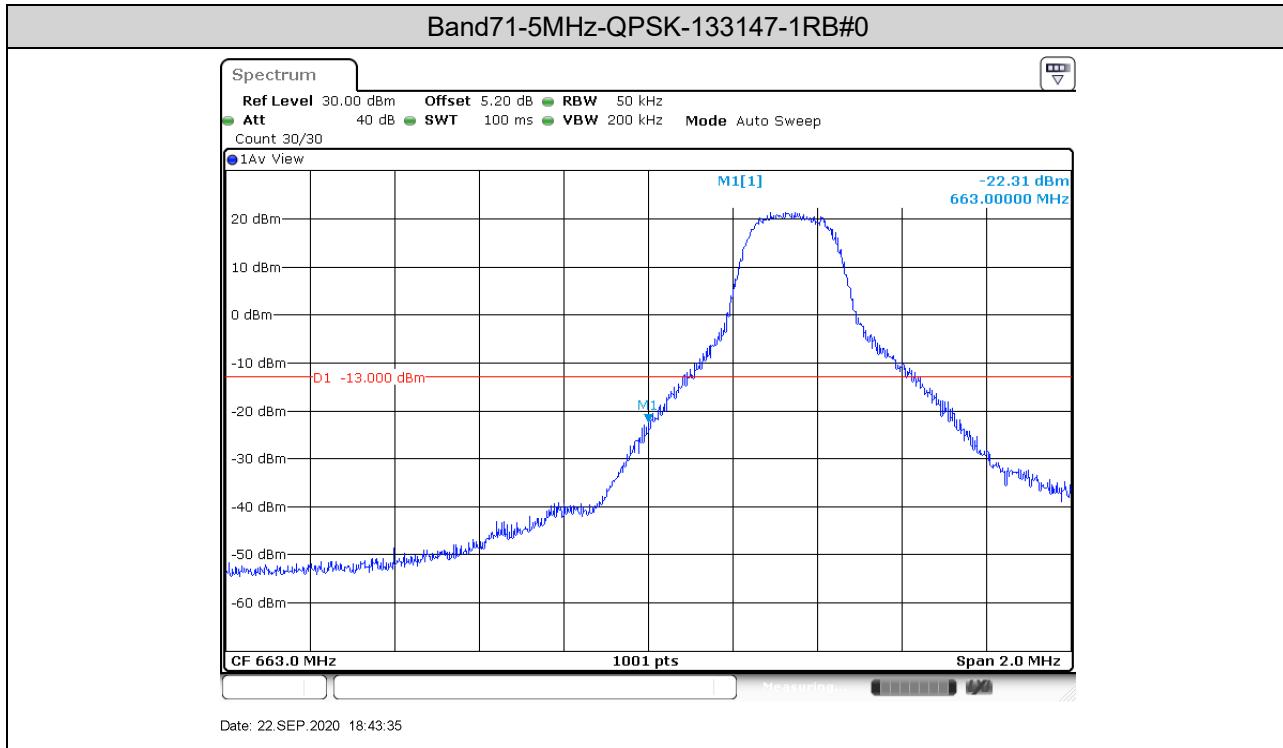


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5 Band Edge Compliance

5.1 Test Plots

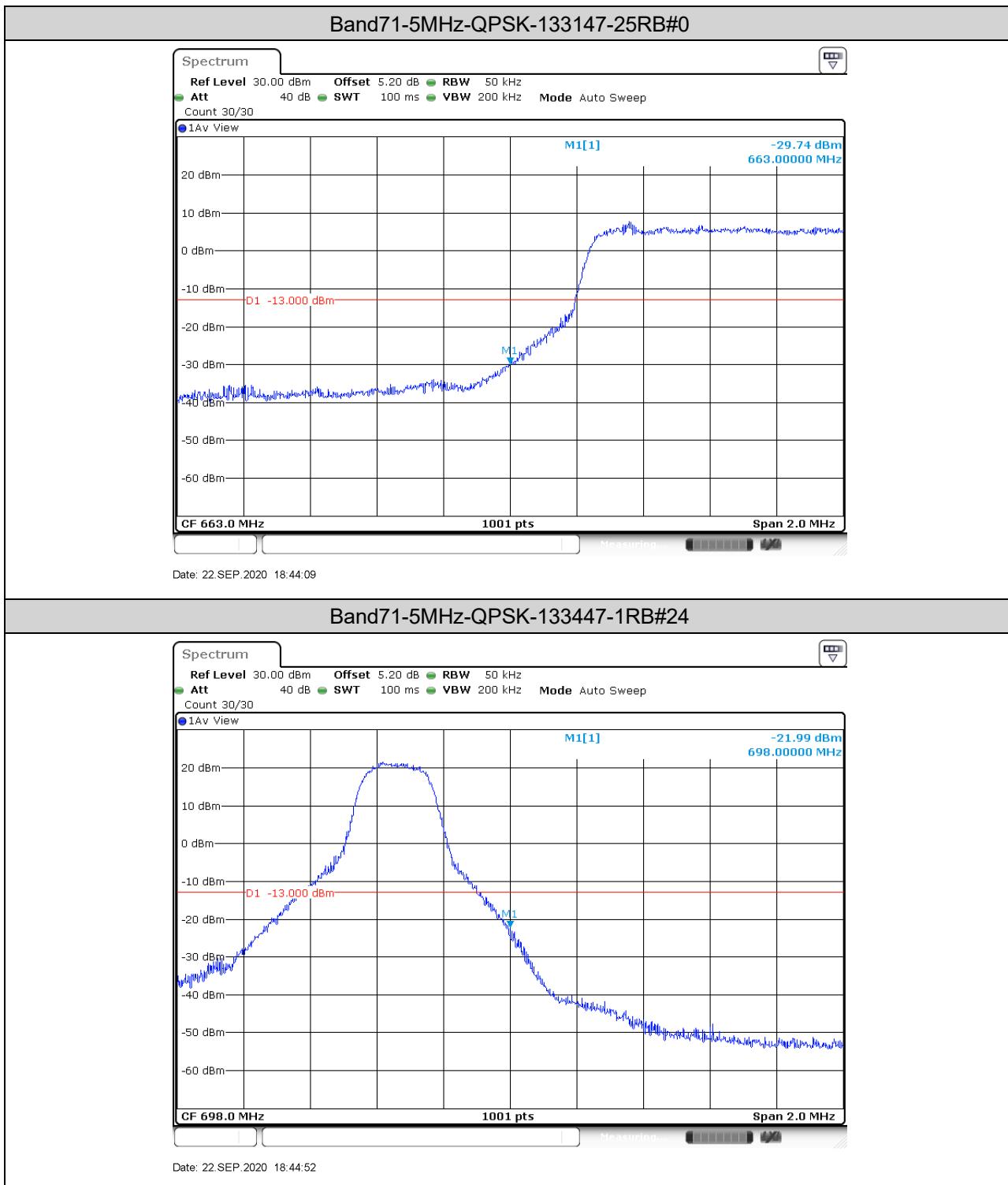


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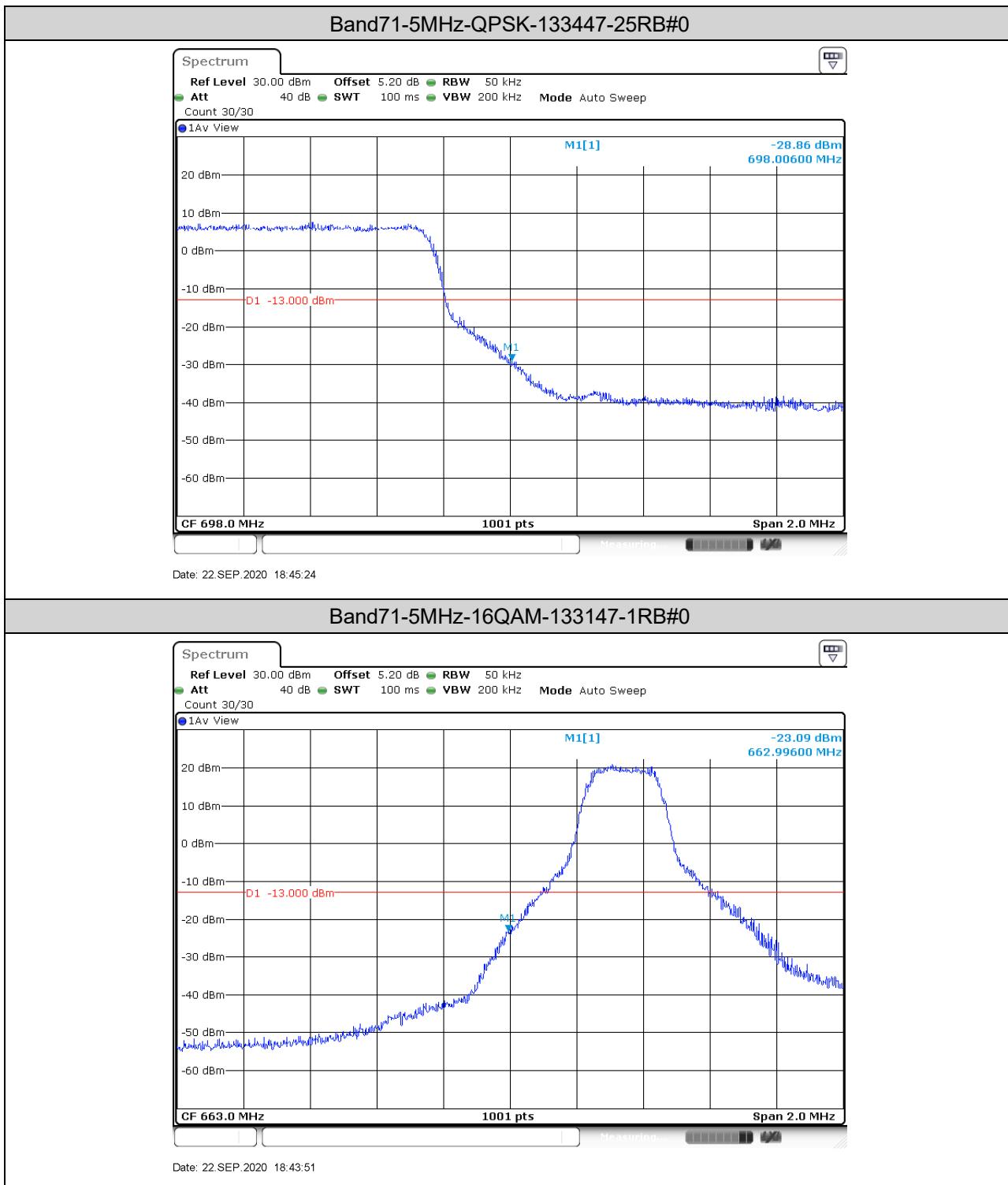


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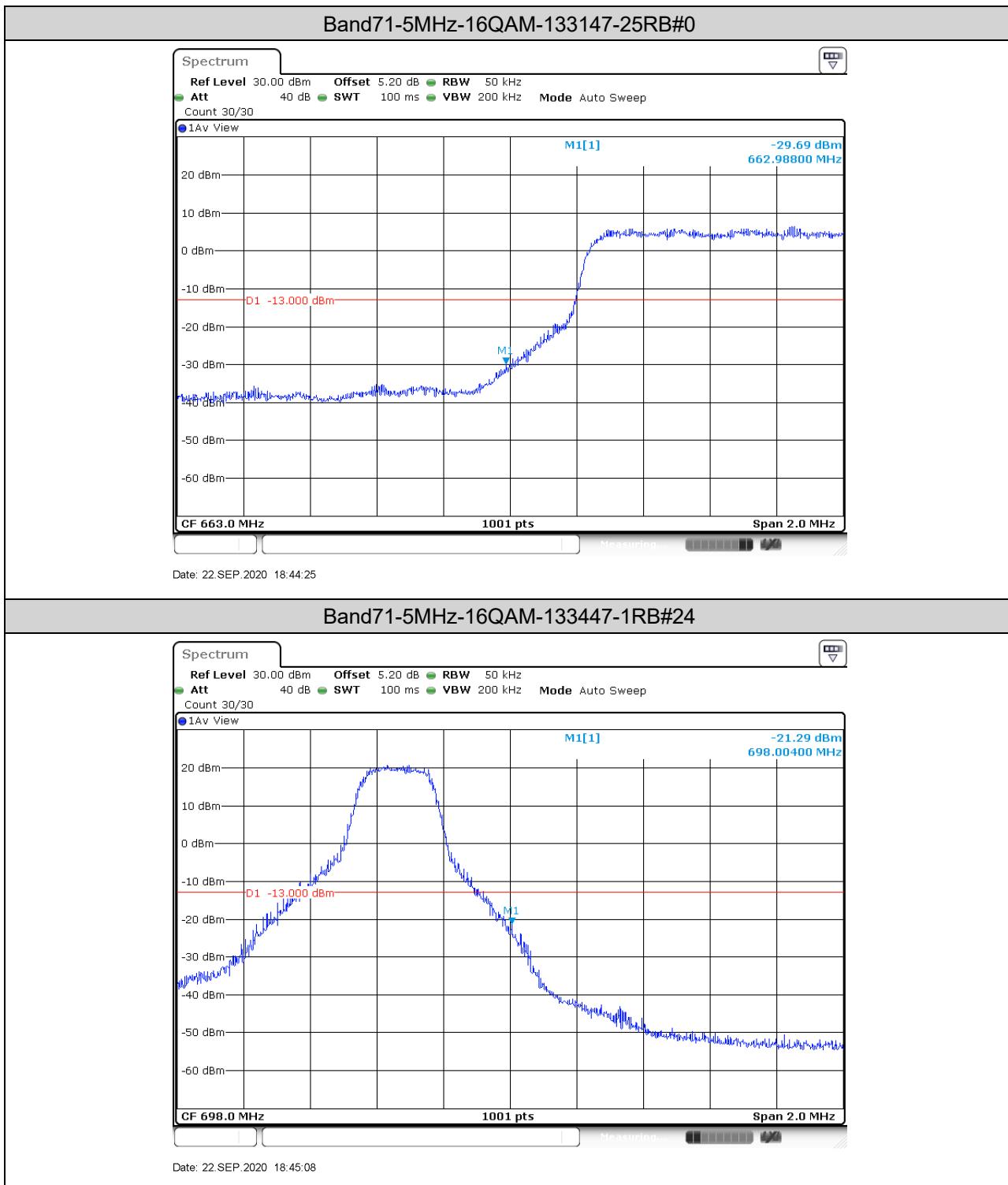


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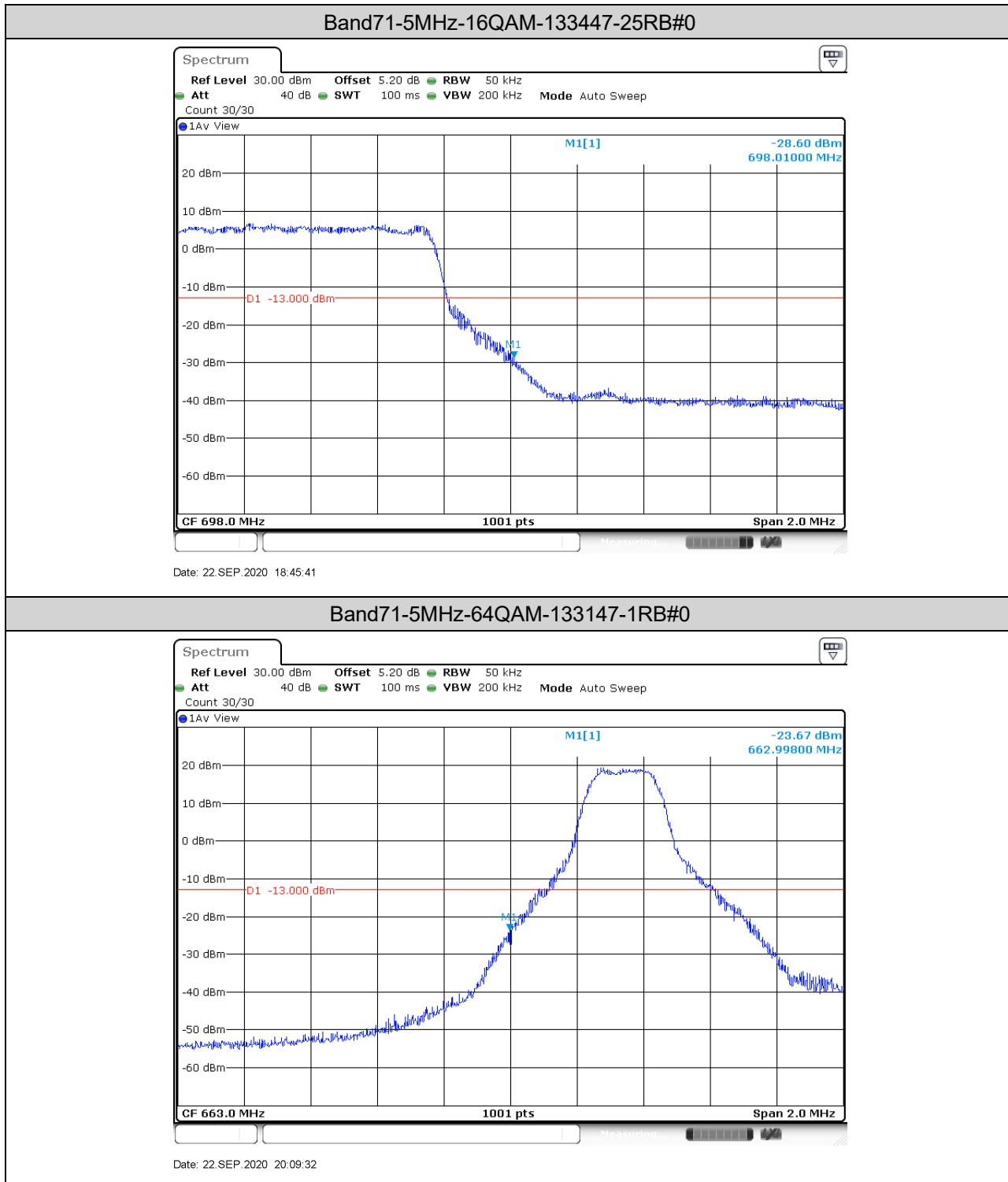


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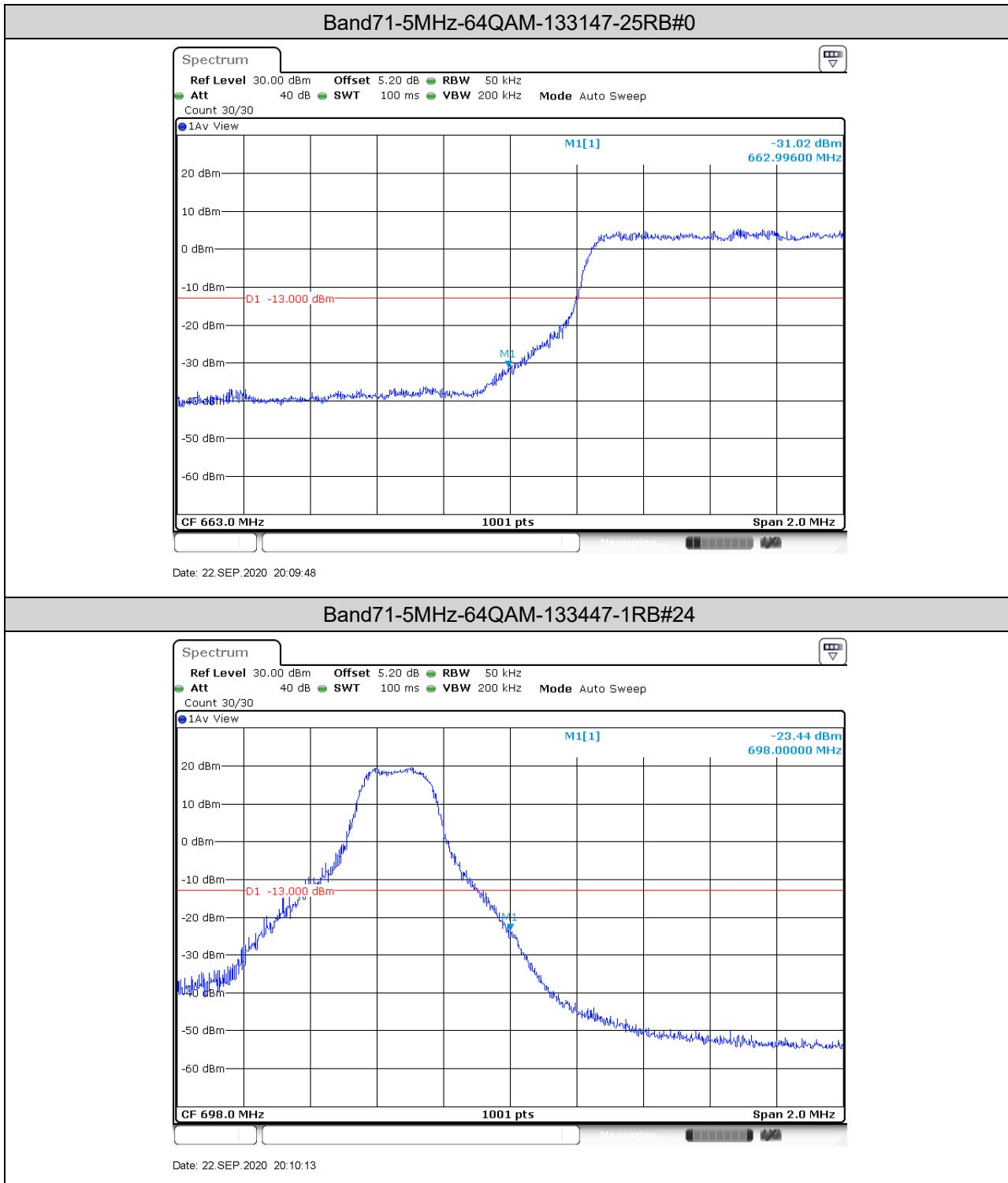


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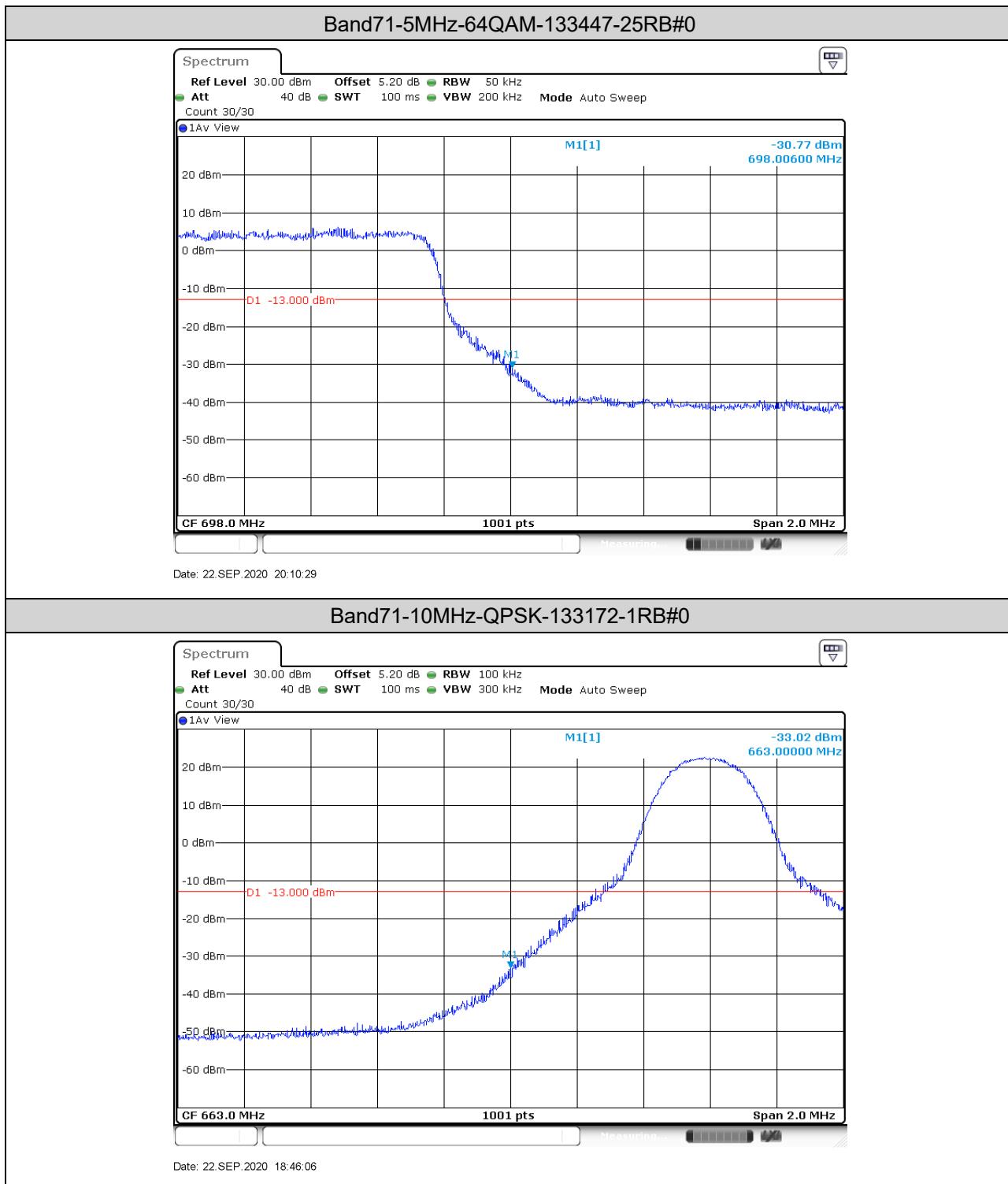


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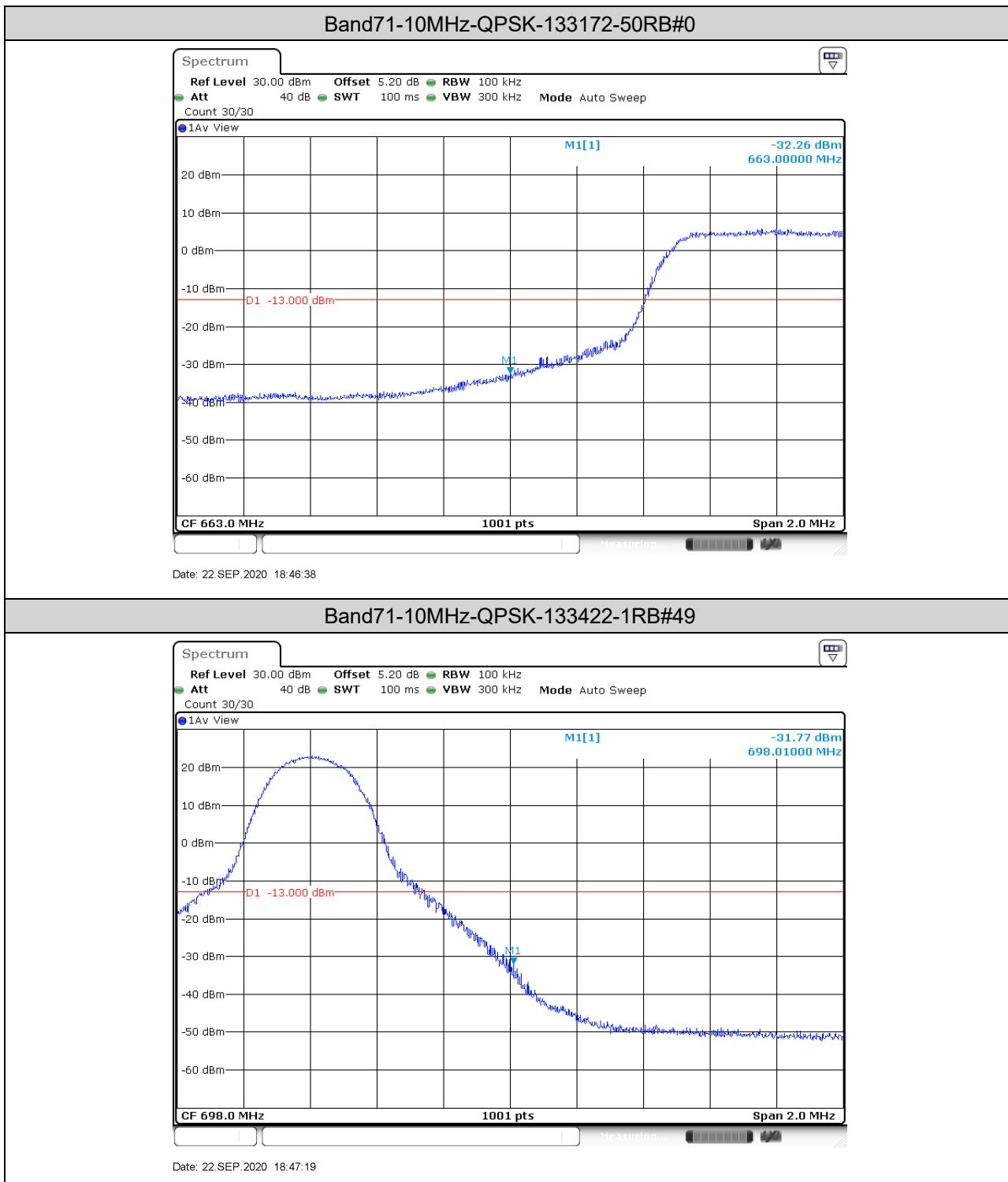


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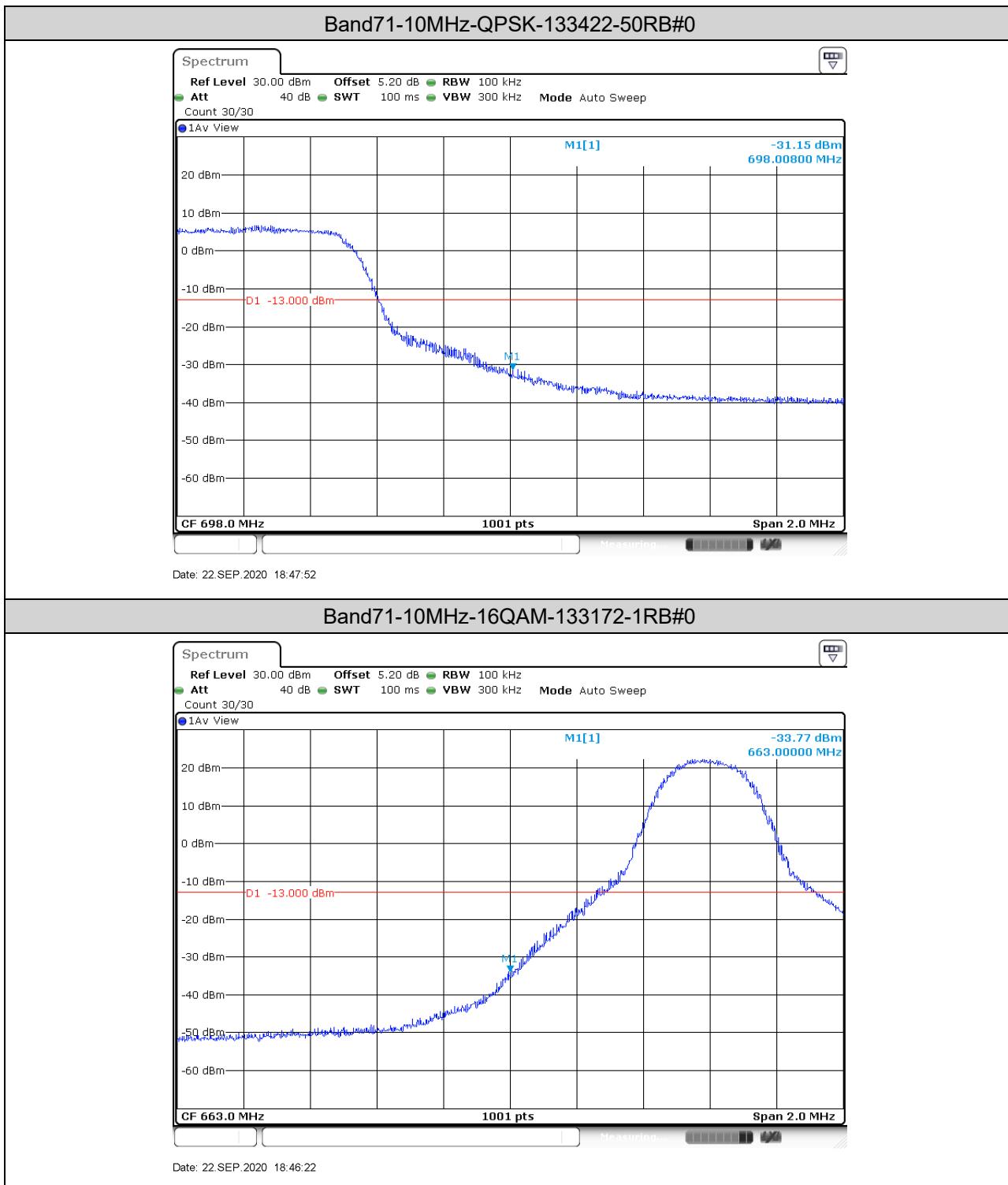


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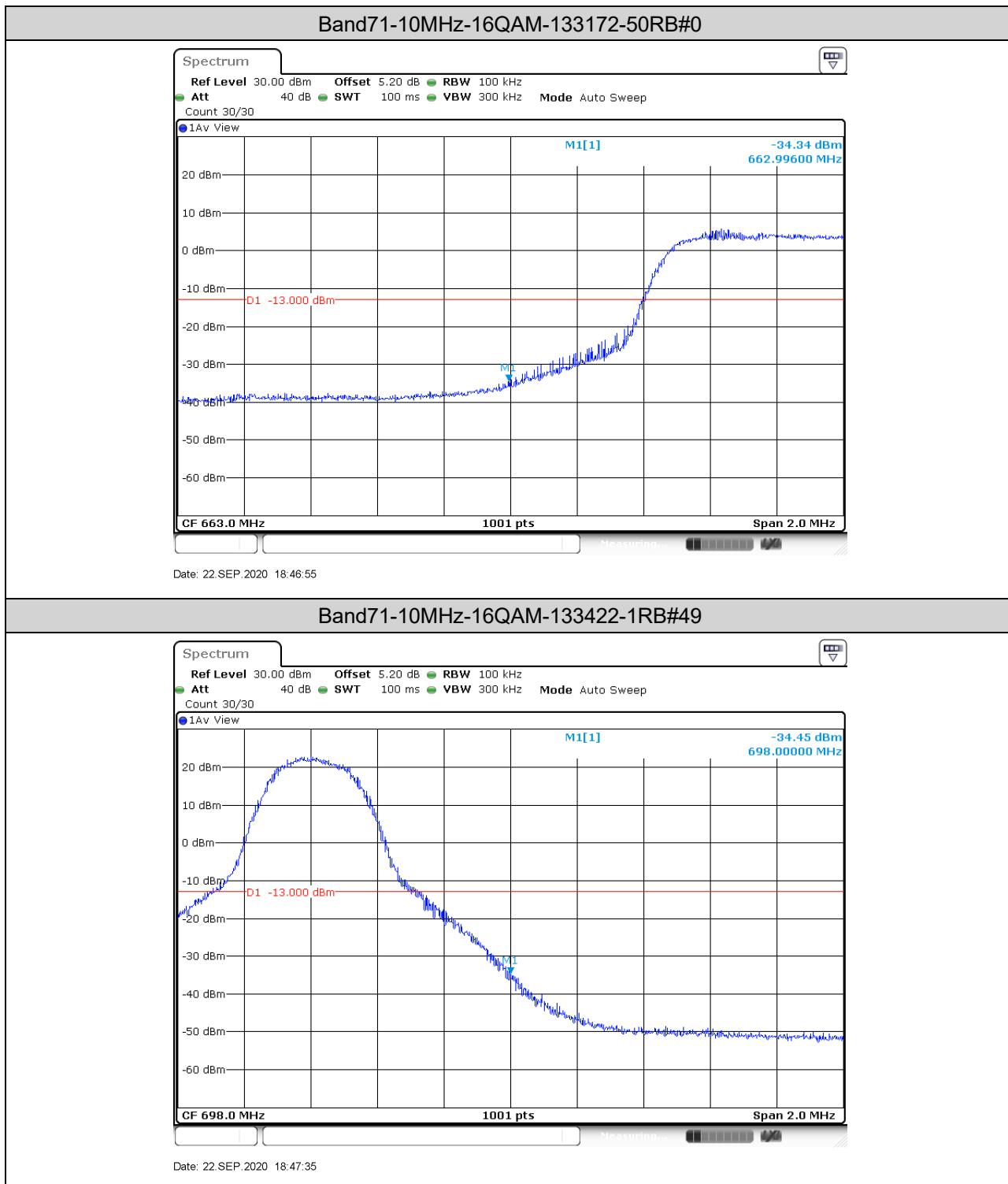


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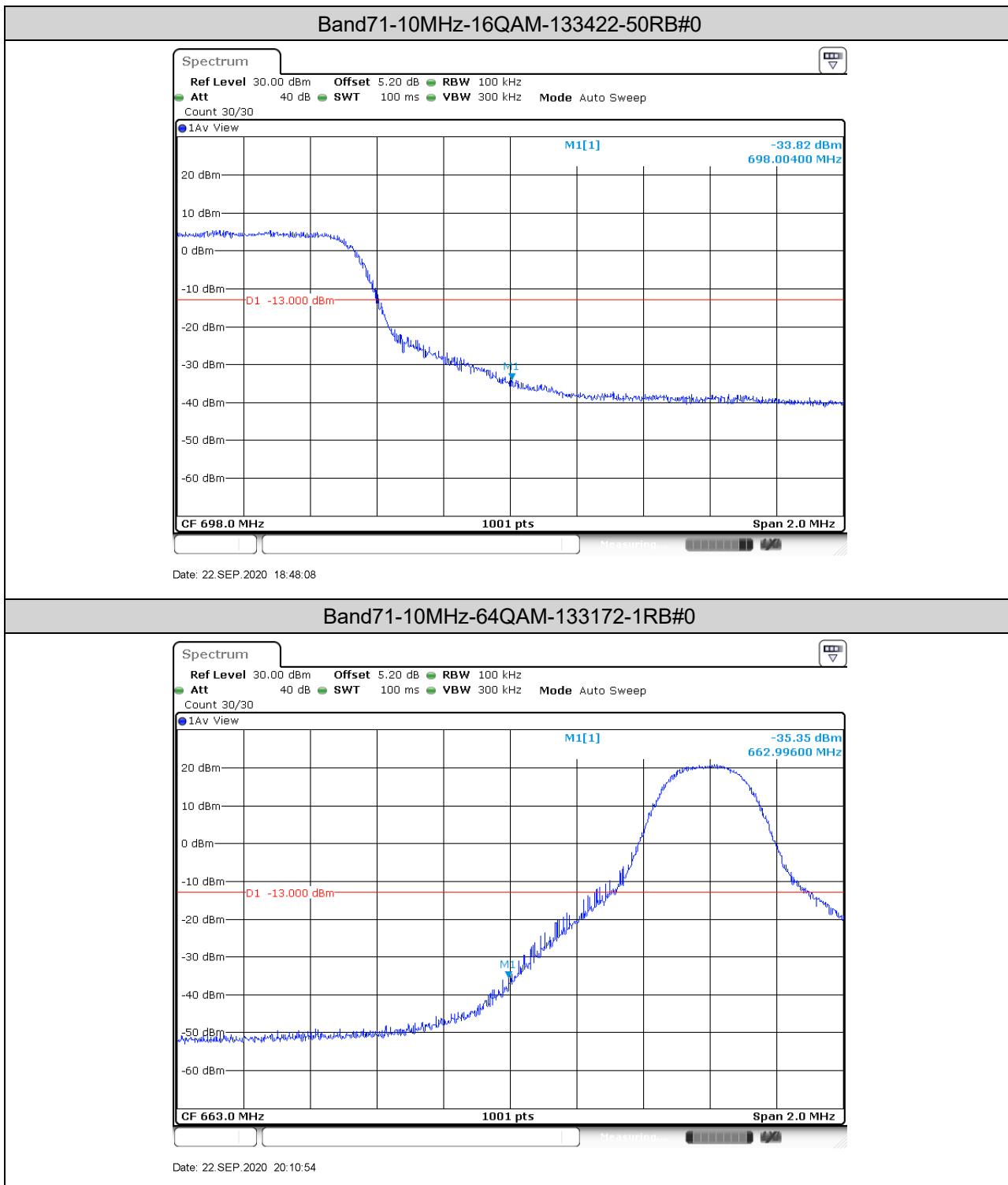


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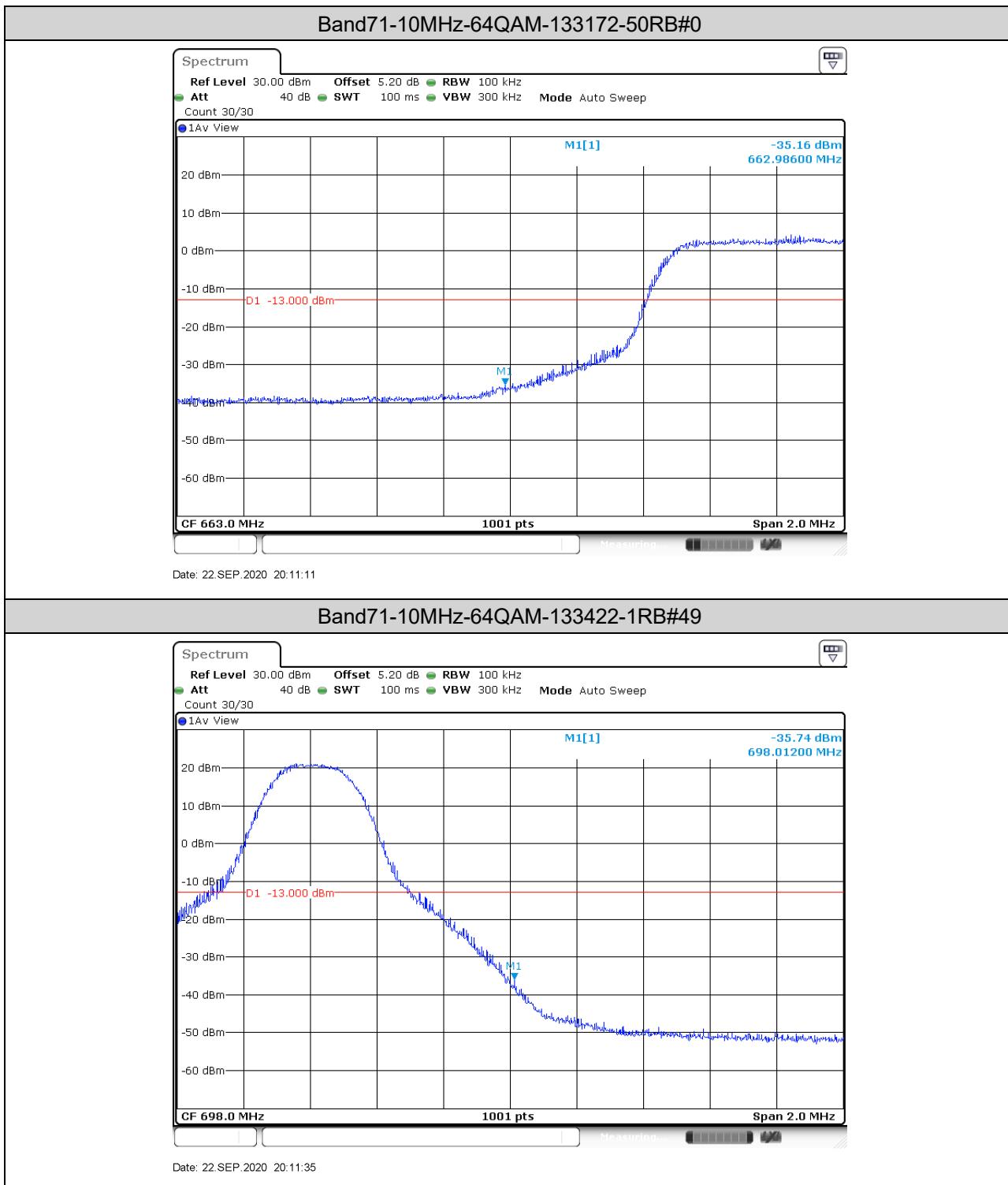


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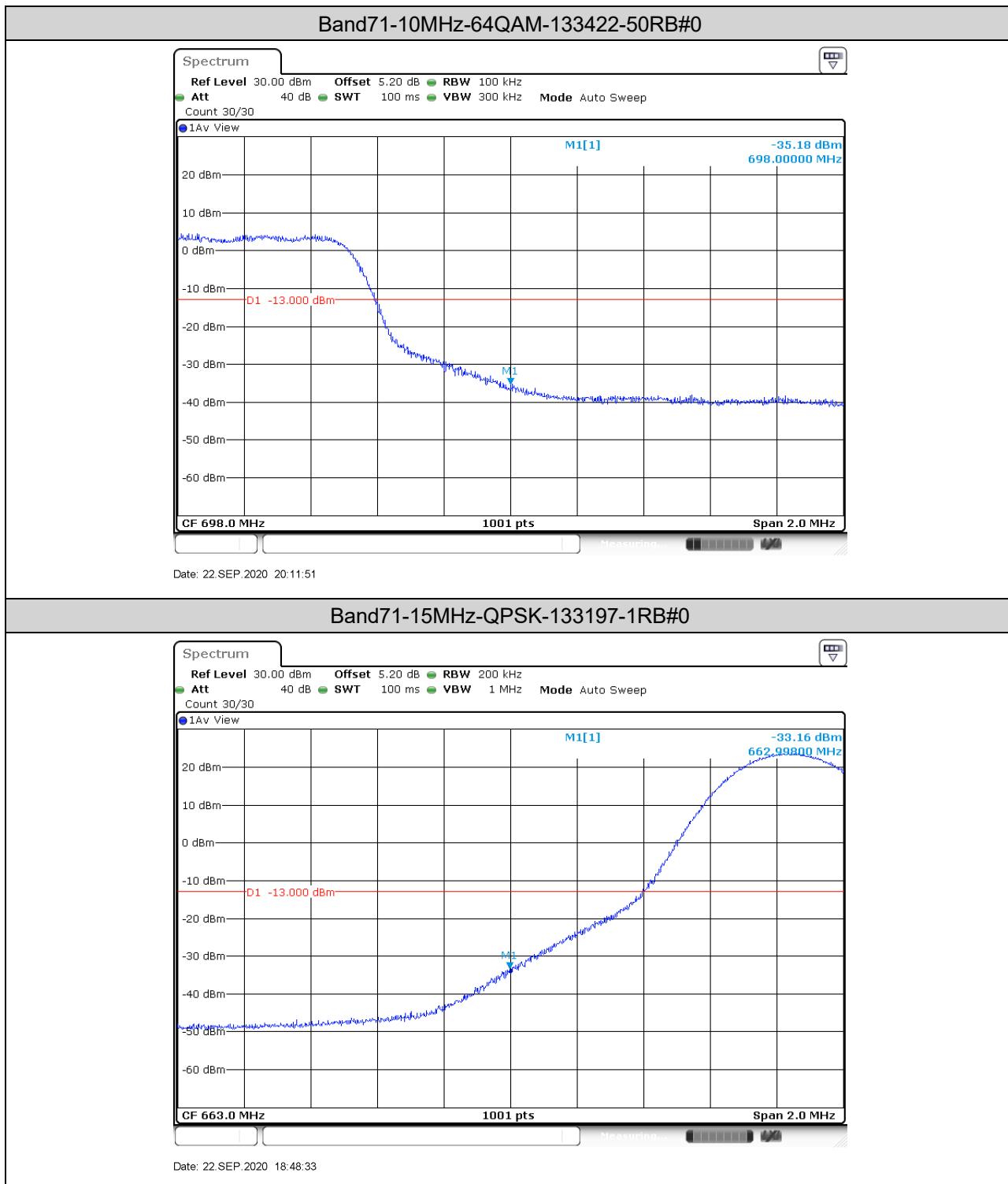


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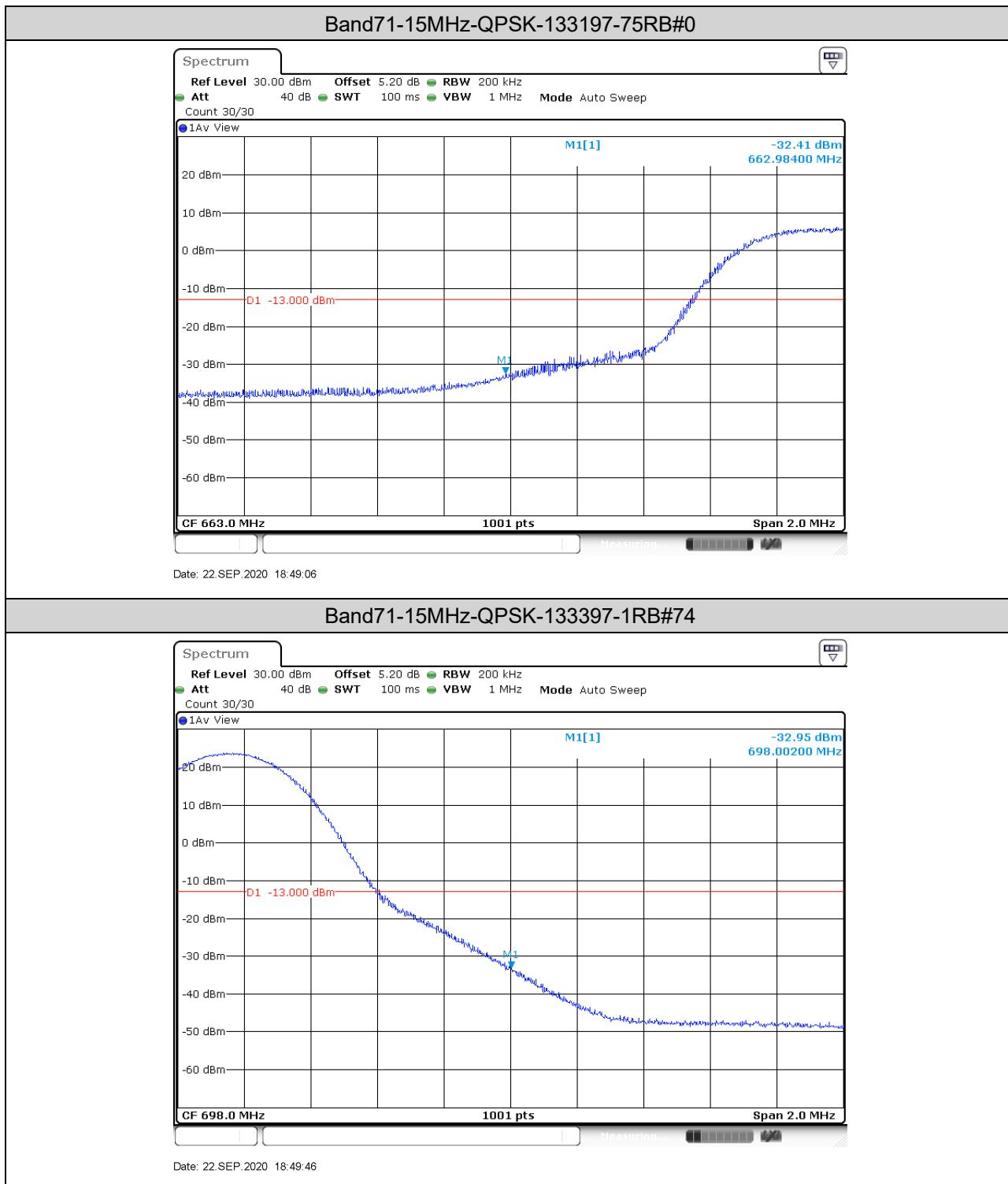


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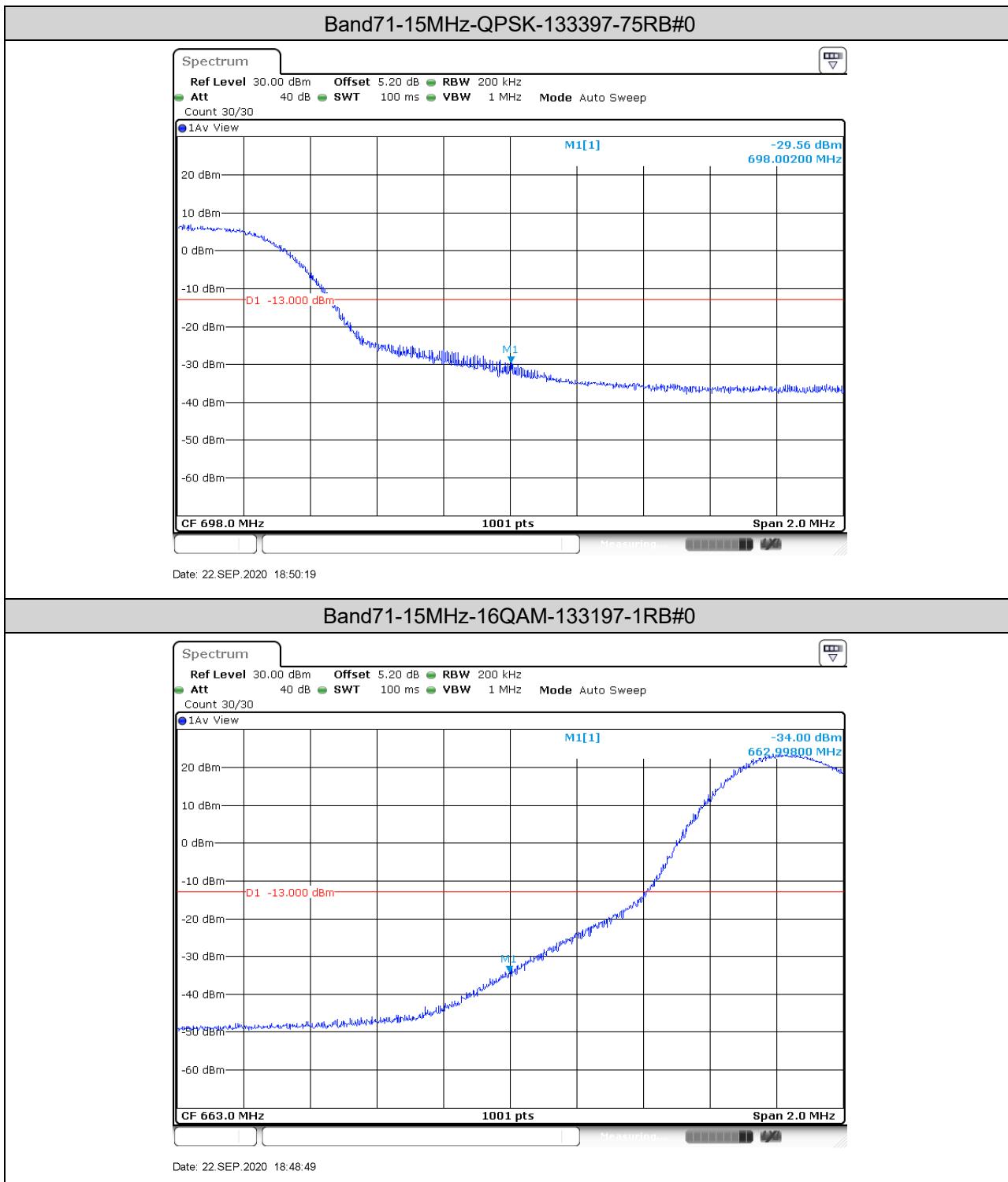


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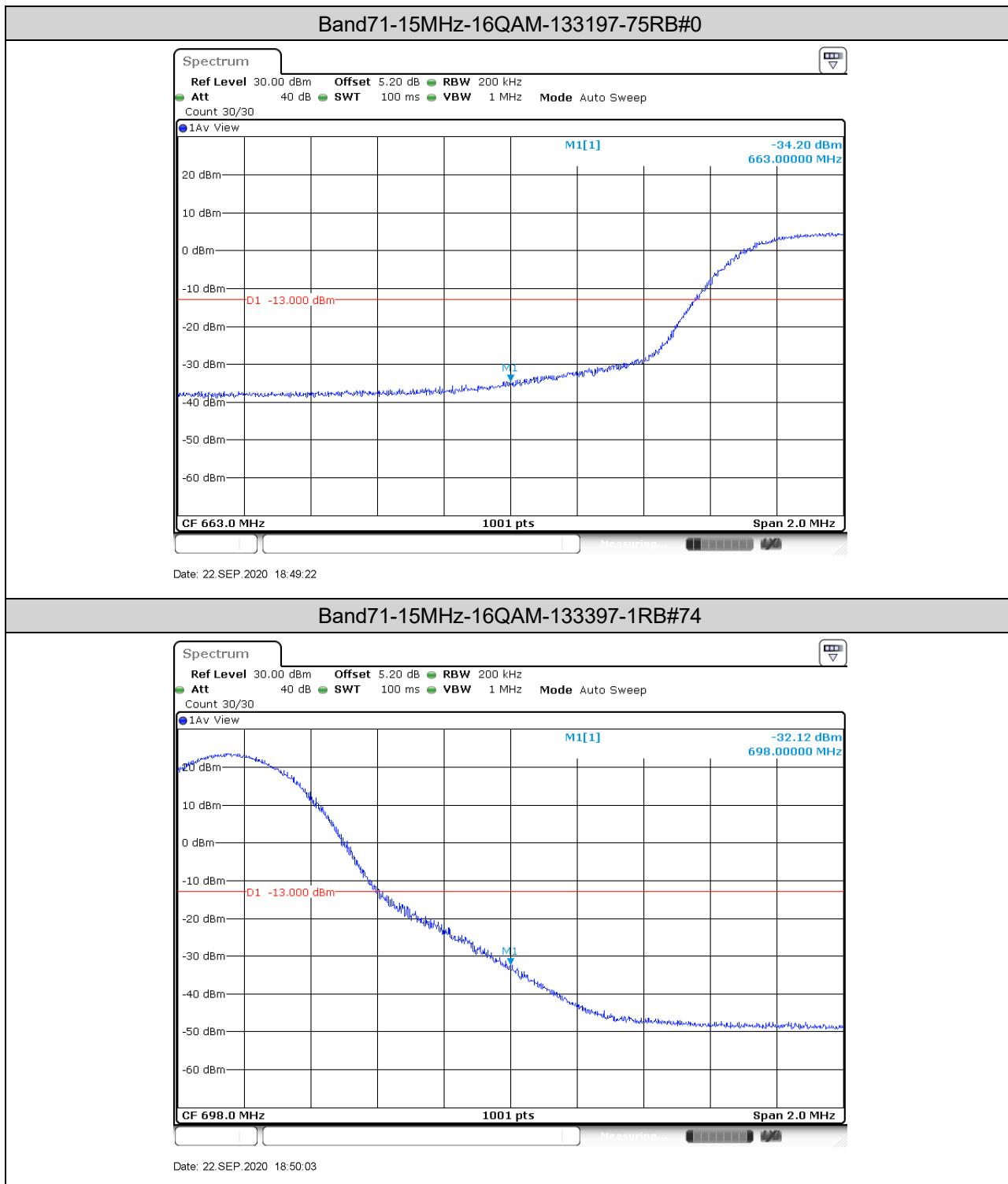


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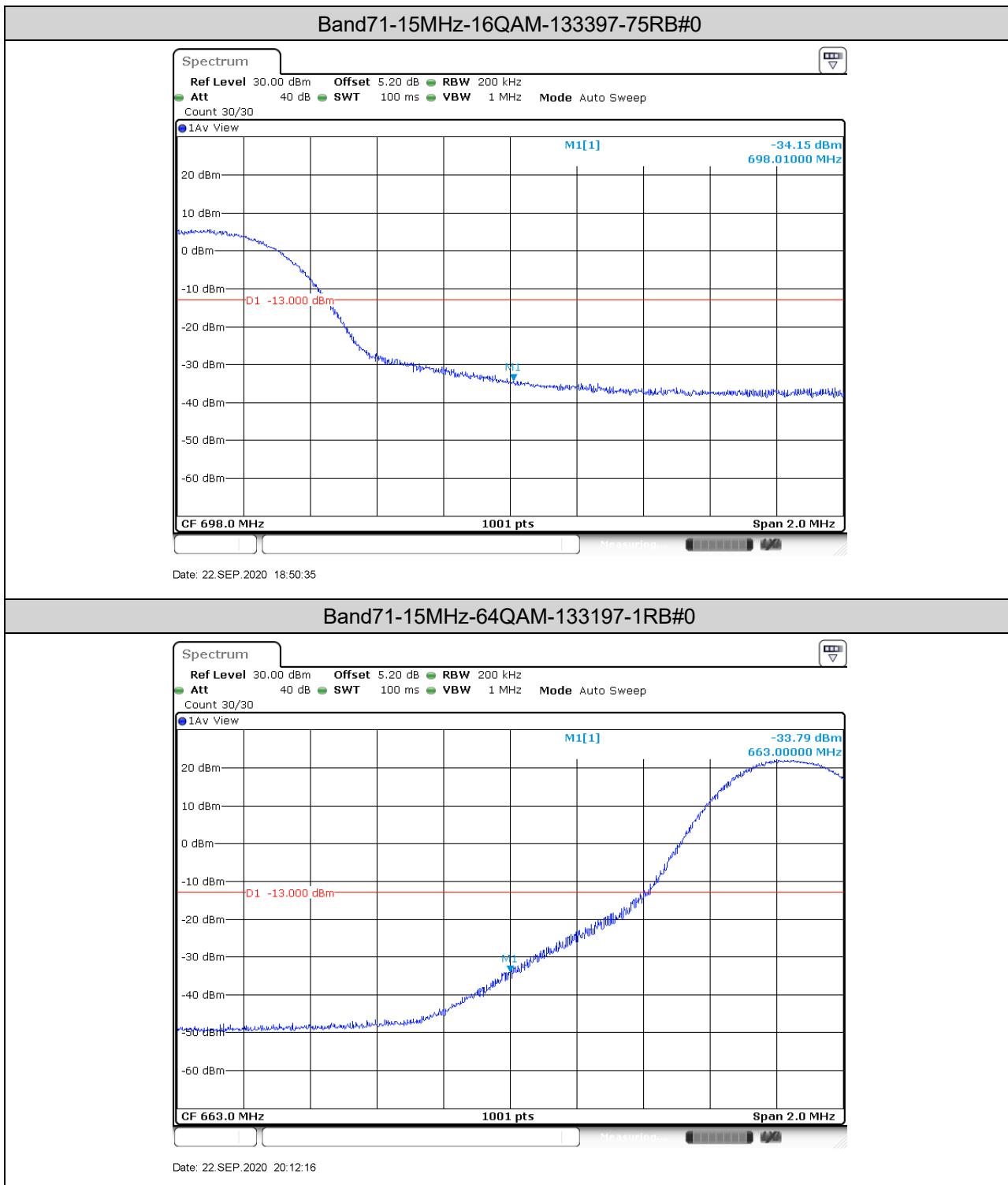


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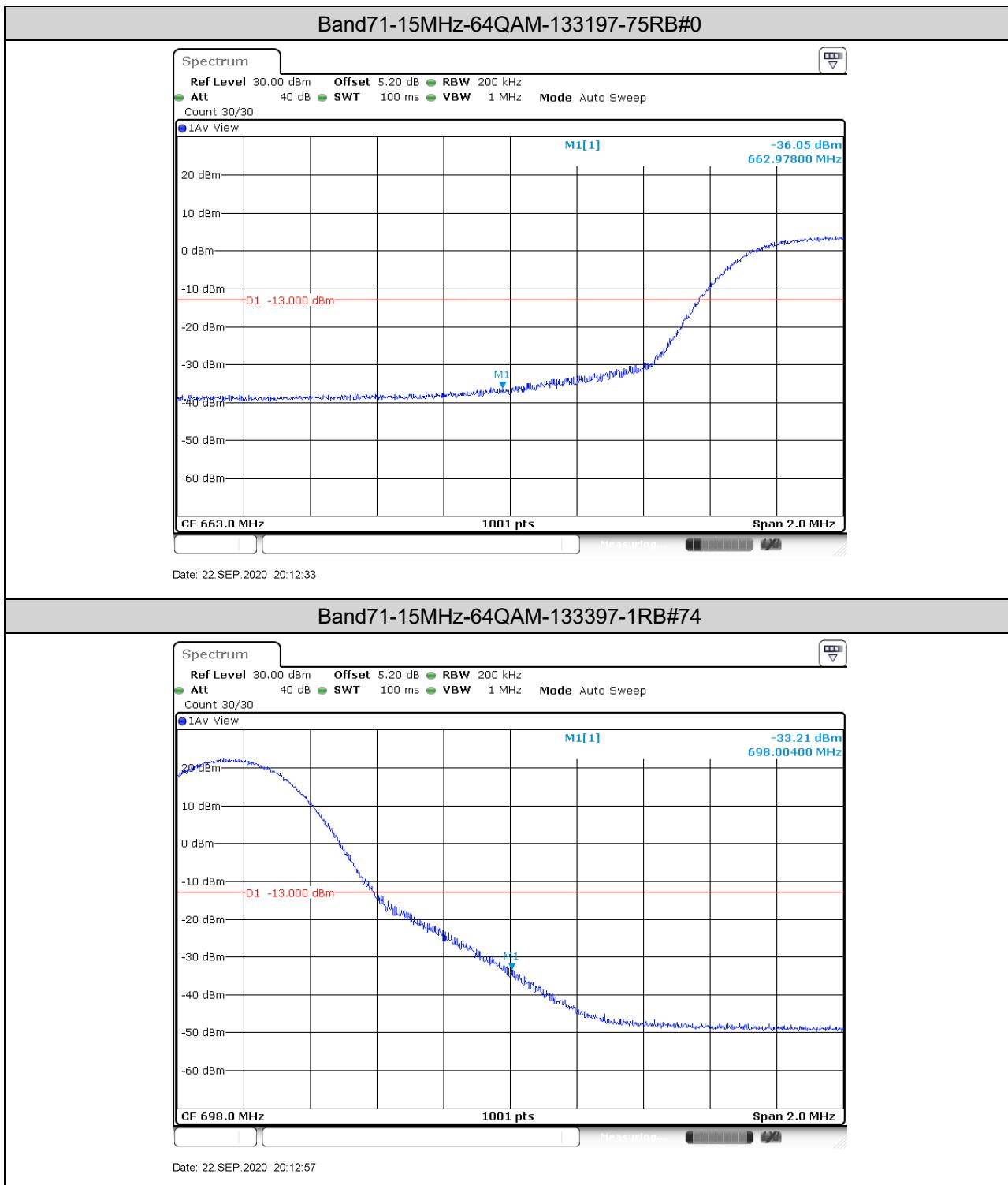


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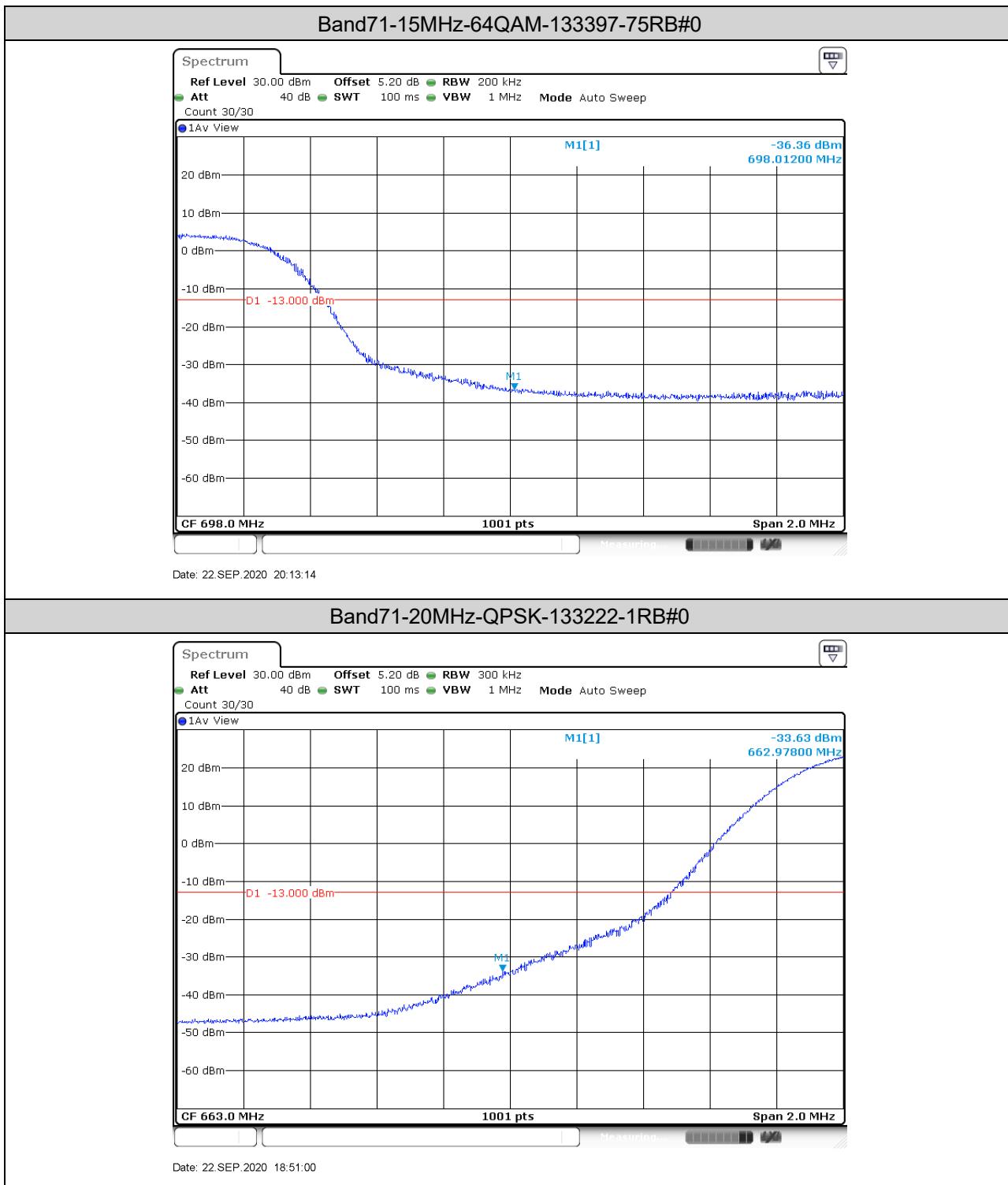


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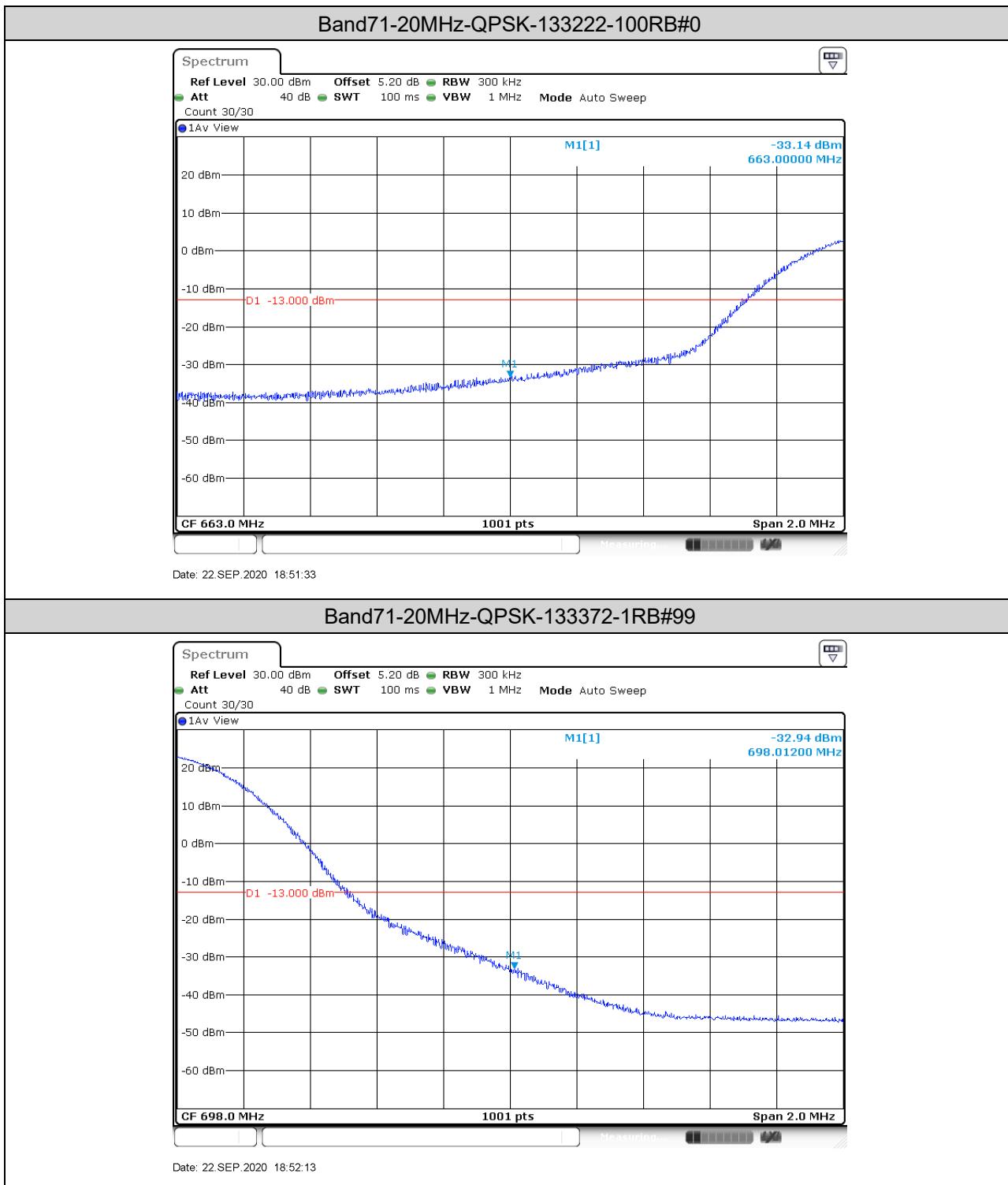


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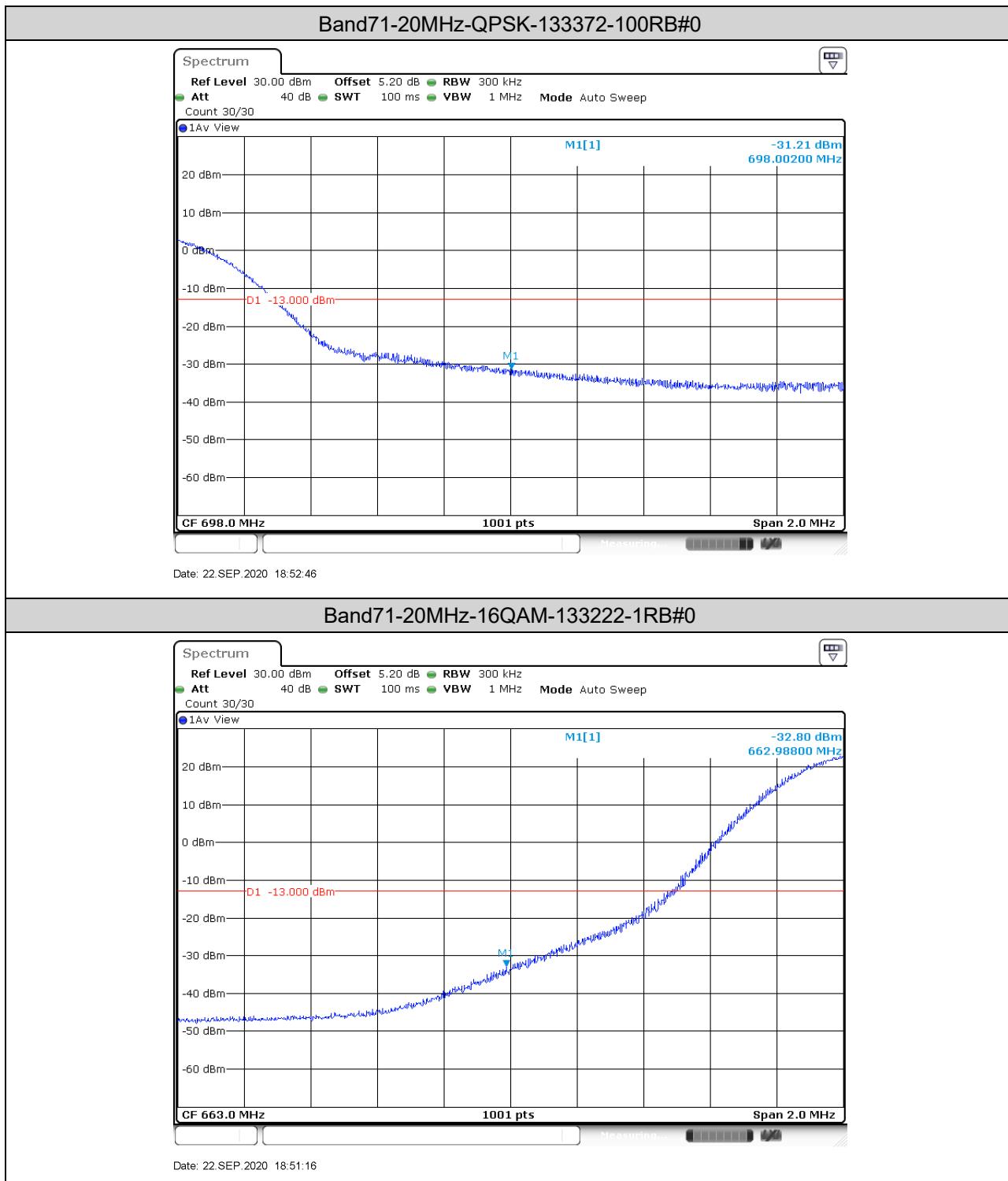


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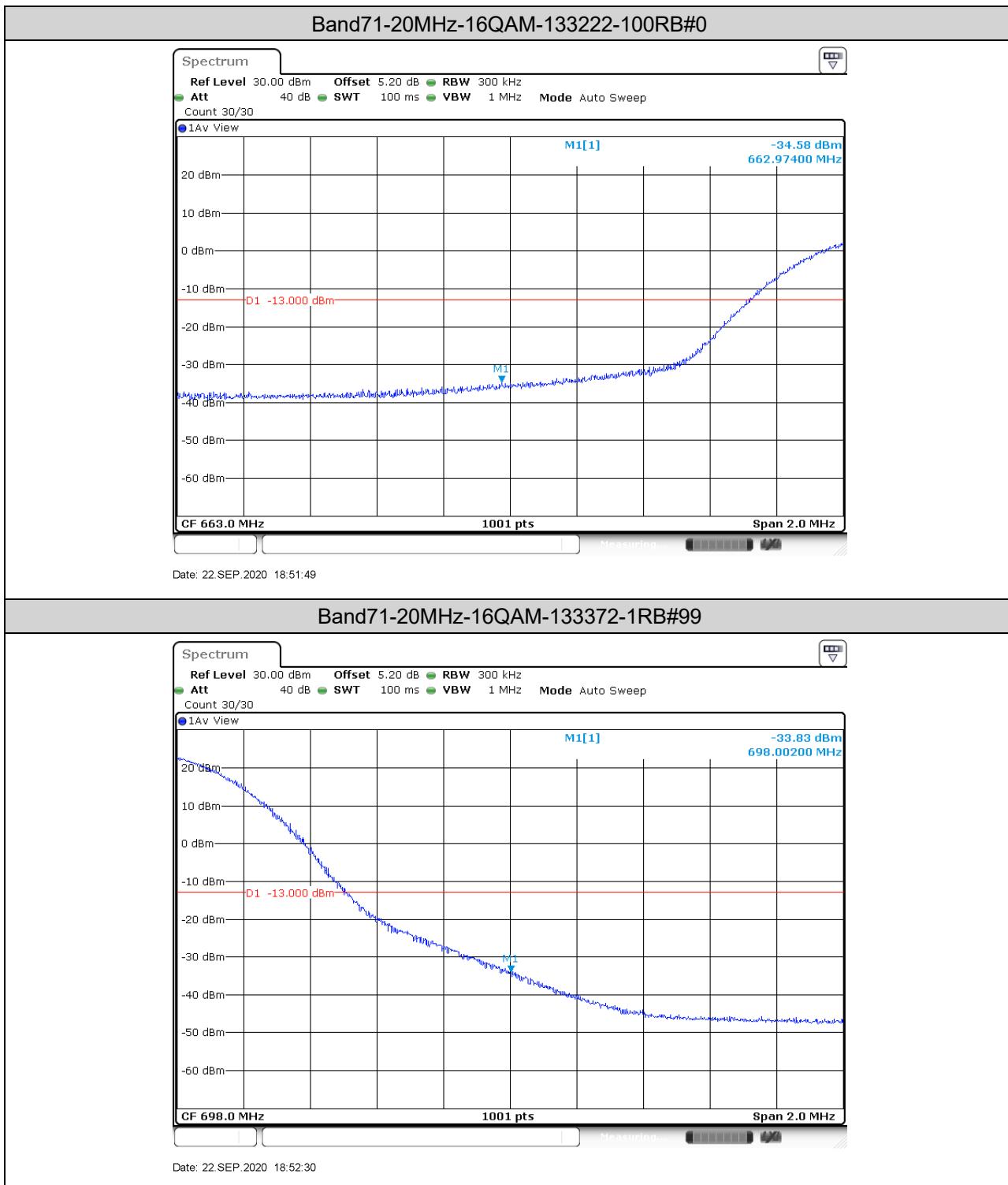


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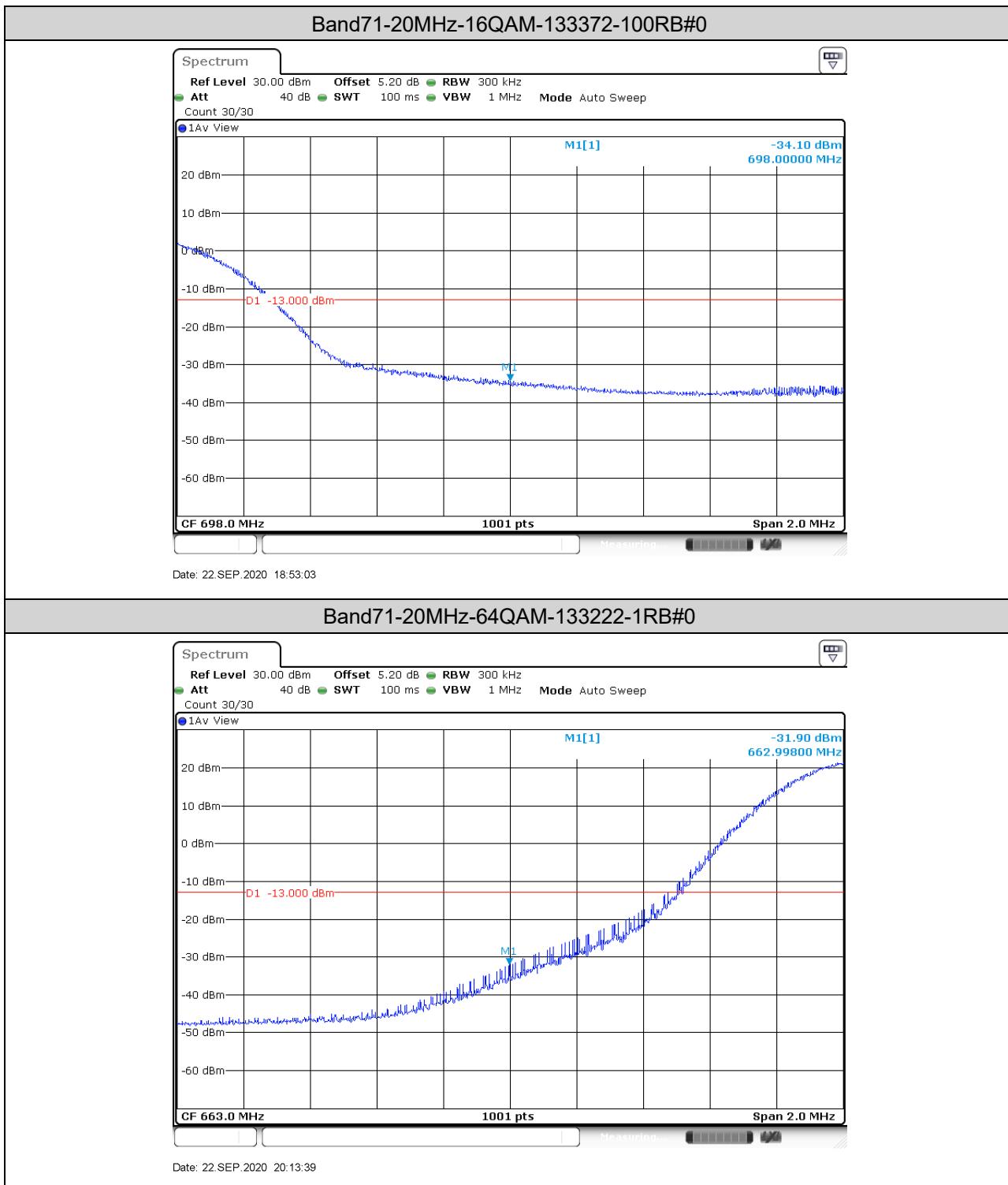


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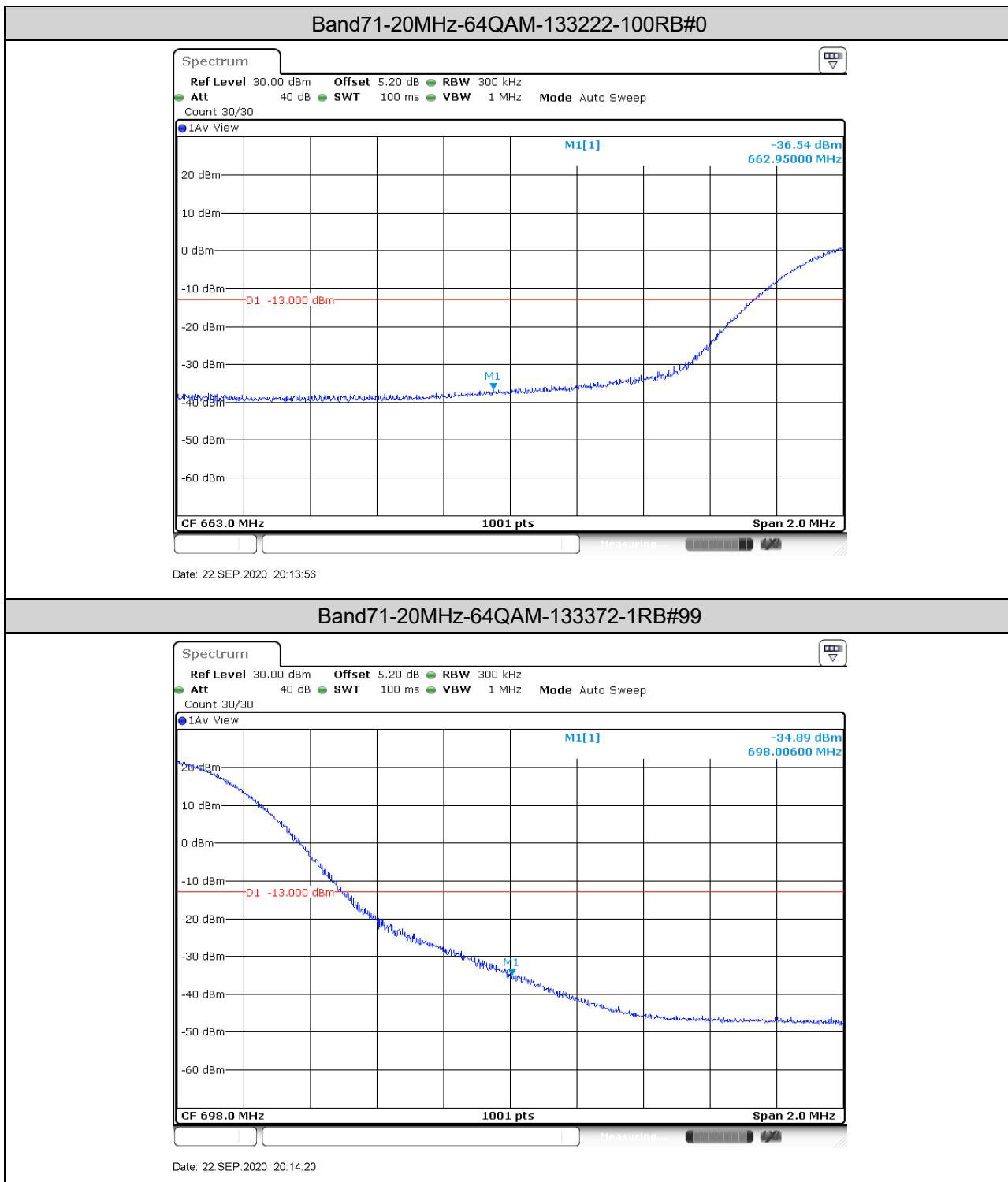


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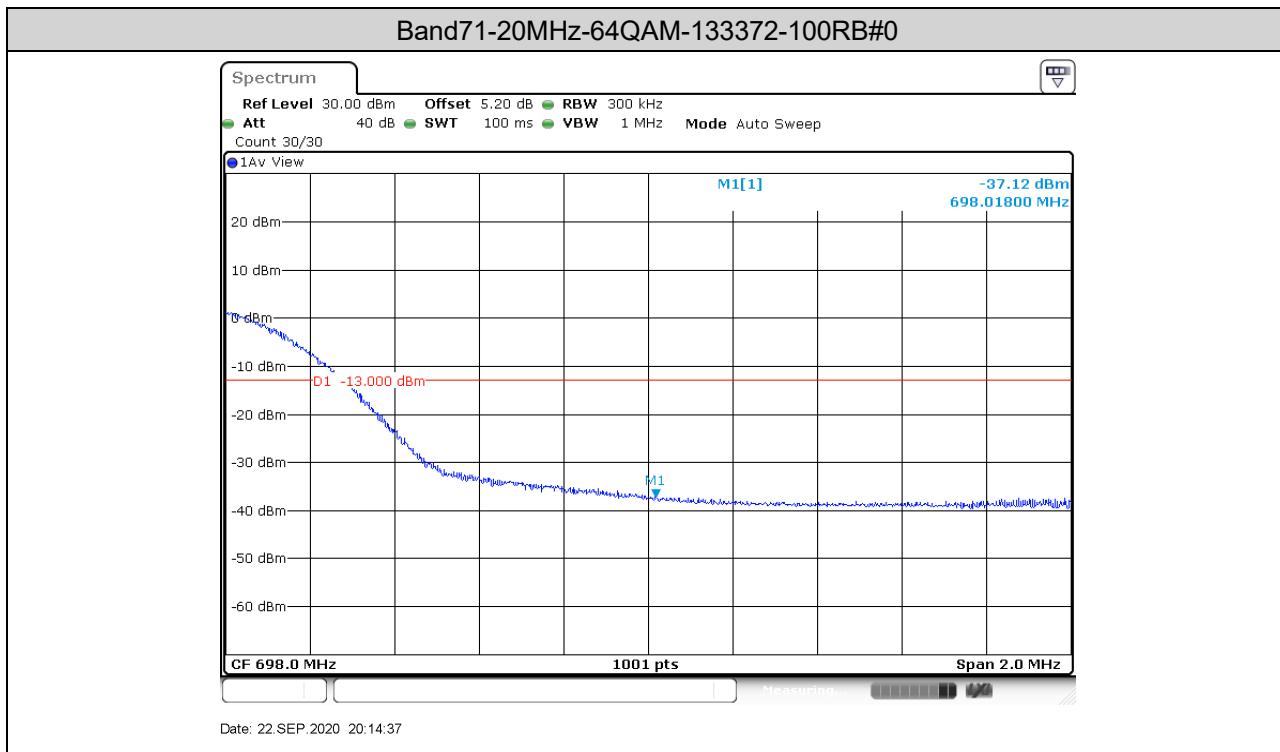


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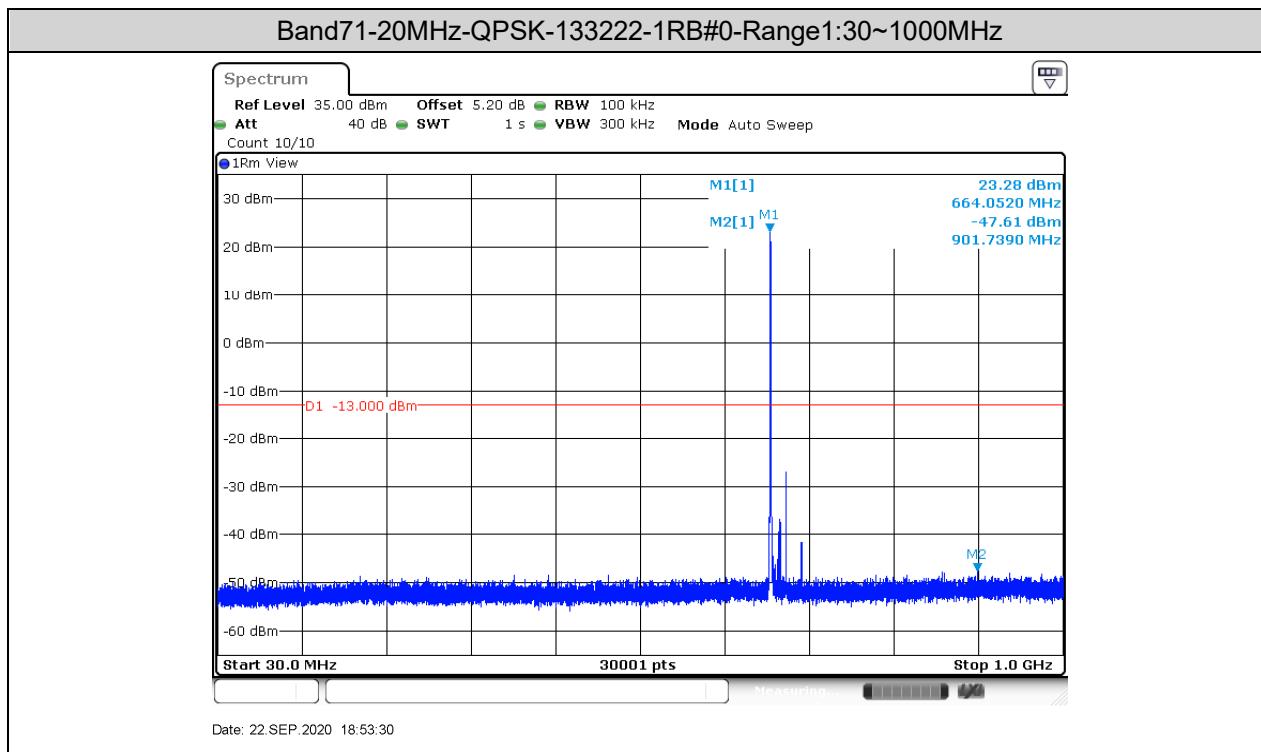
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6 Spurious Emission at Antenna Terminal

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

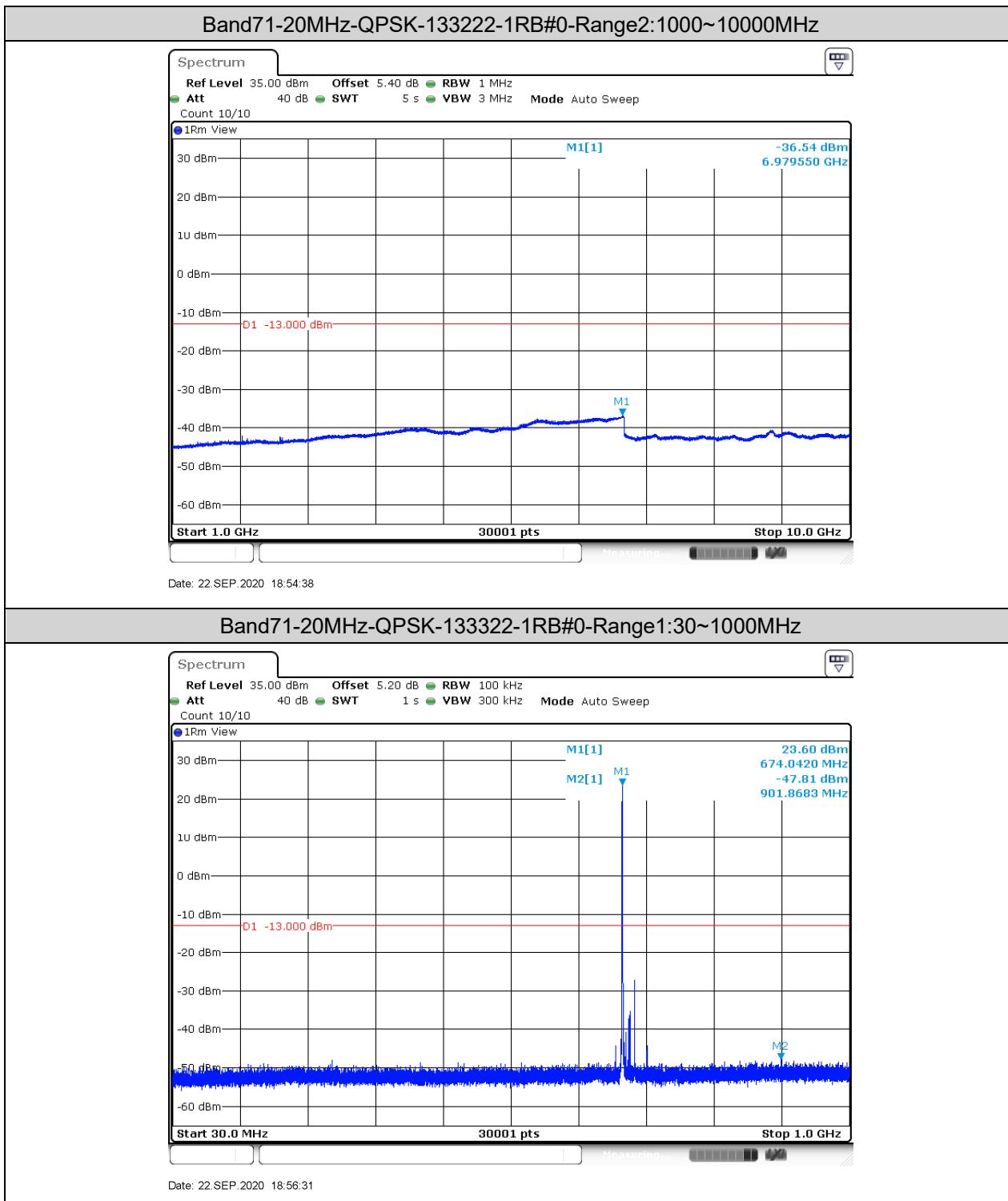


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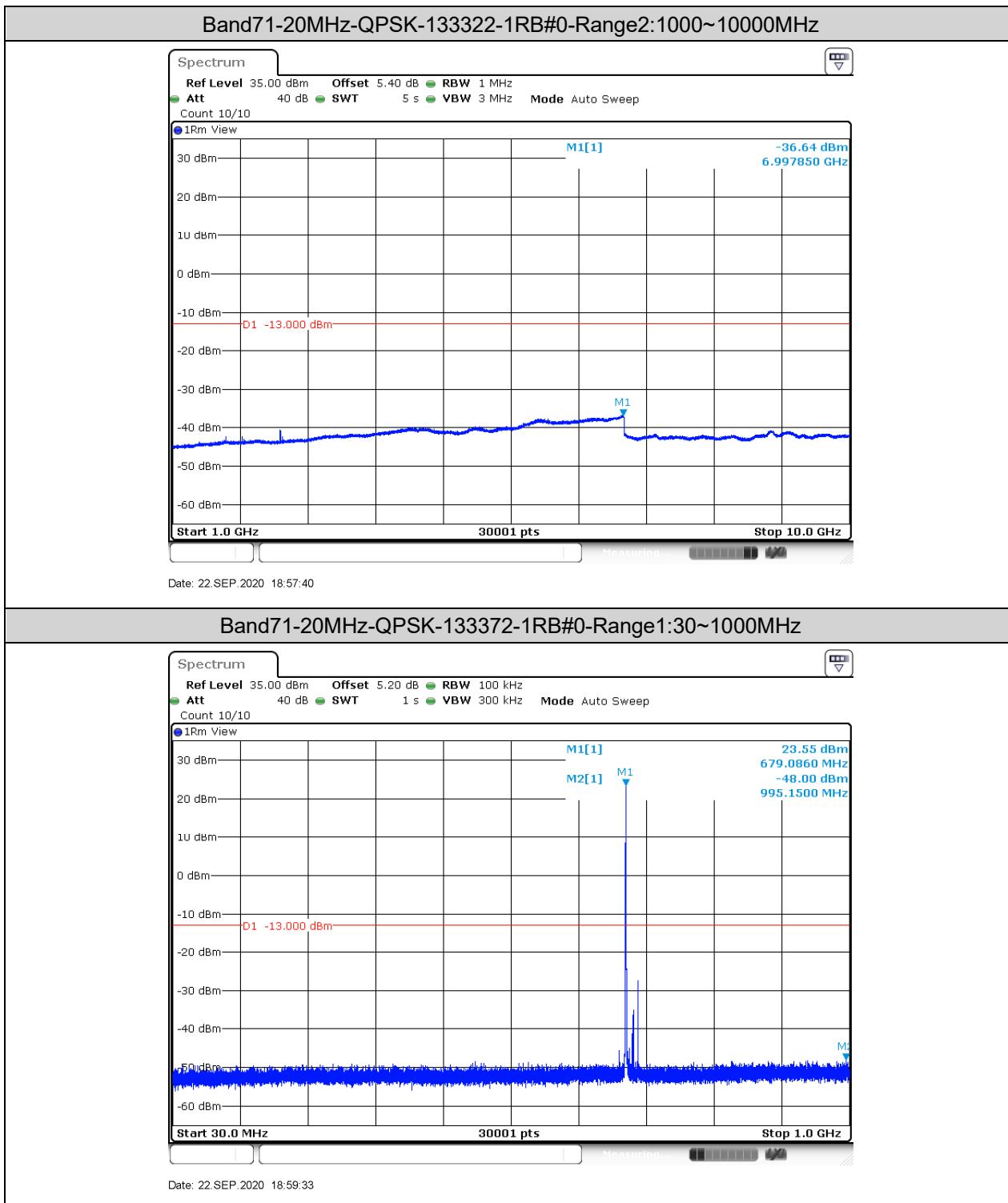
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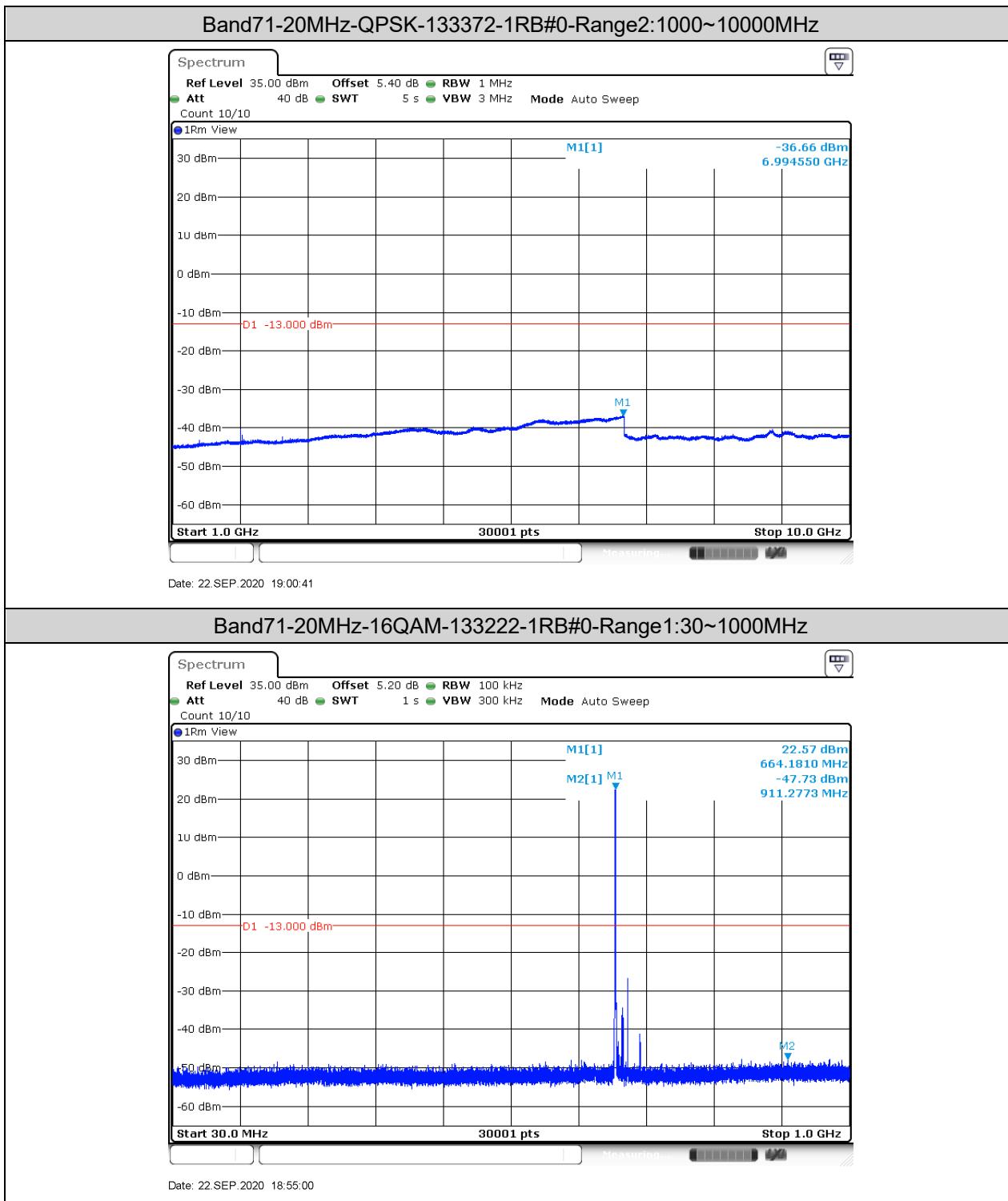




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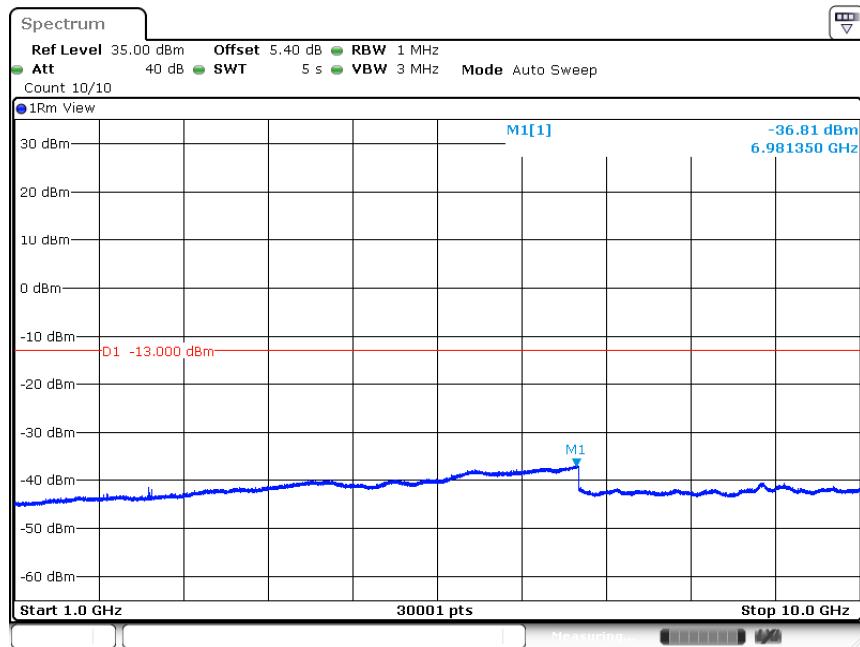


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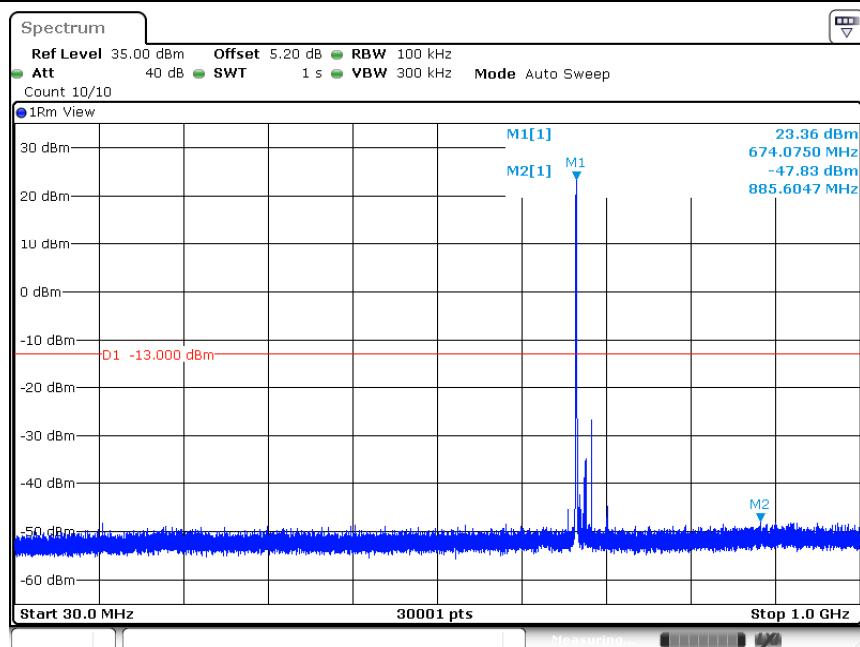


Band71-20MHz-16QAM-133222-1RB#0-Range2:1000~10000MHz



Date: 22.SEP.2020 18:56:08

Band71-20MHz-16QAM-133322-1RB#0-Range1:30~1000MHz



Date: 22.SEP.2020 18:58:02

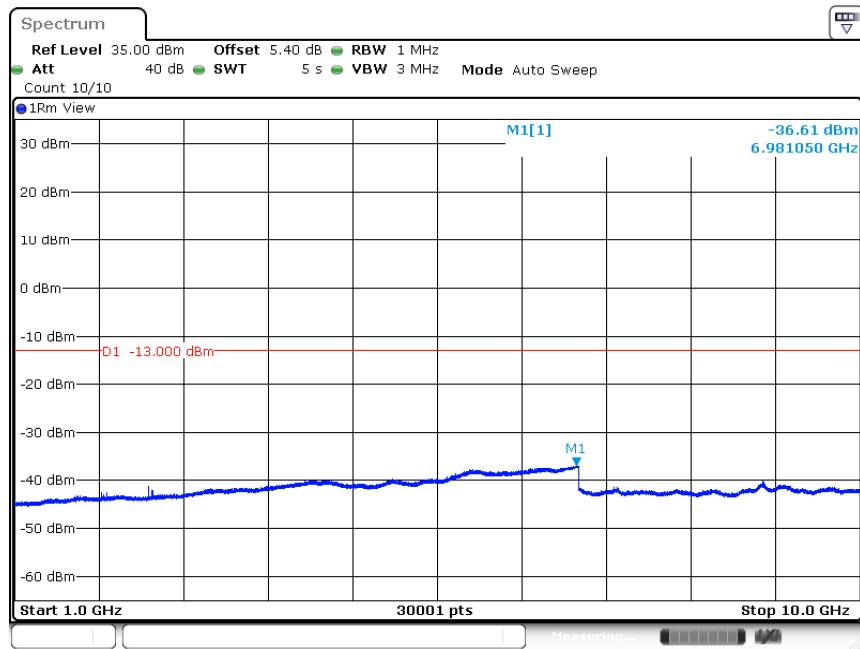
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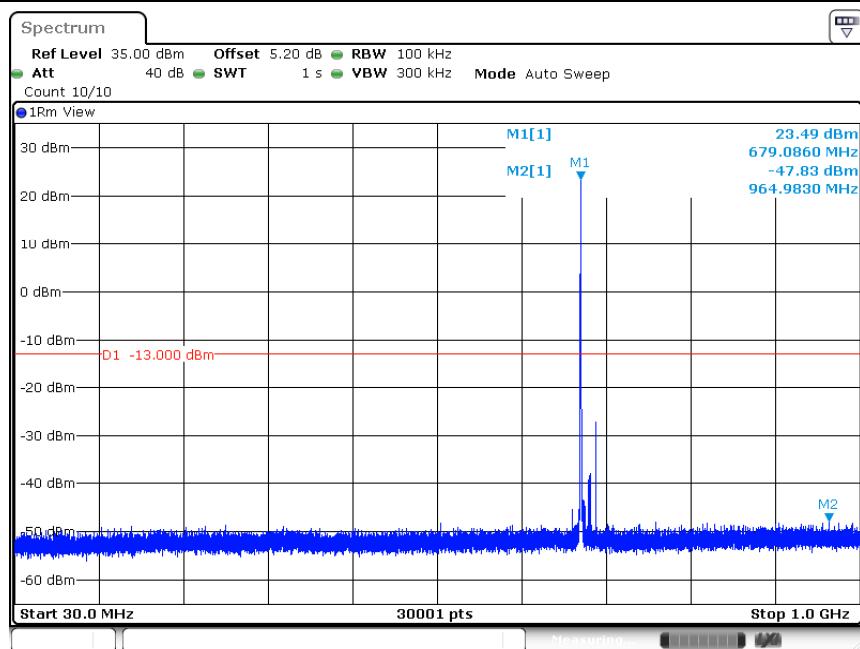
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Band71-20MHz-16QAM-133322-1RB#0-Range2:1000~10000MHz



Date: 22.SEP.2020 18:59:10

Band71-20MHz-16QAM-133372-1RB#0-Range1:30~1000MHz



Date: 22.SEP.2020 19:01:04

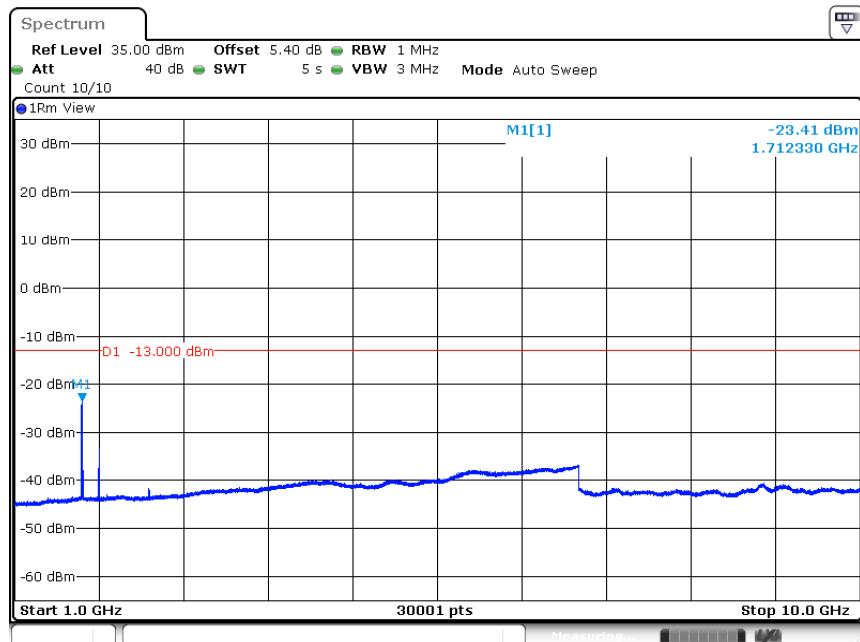
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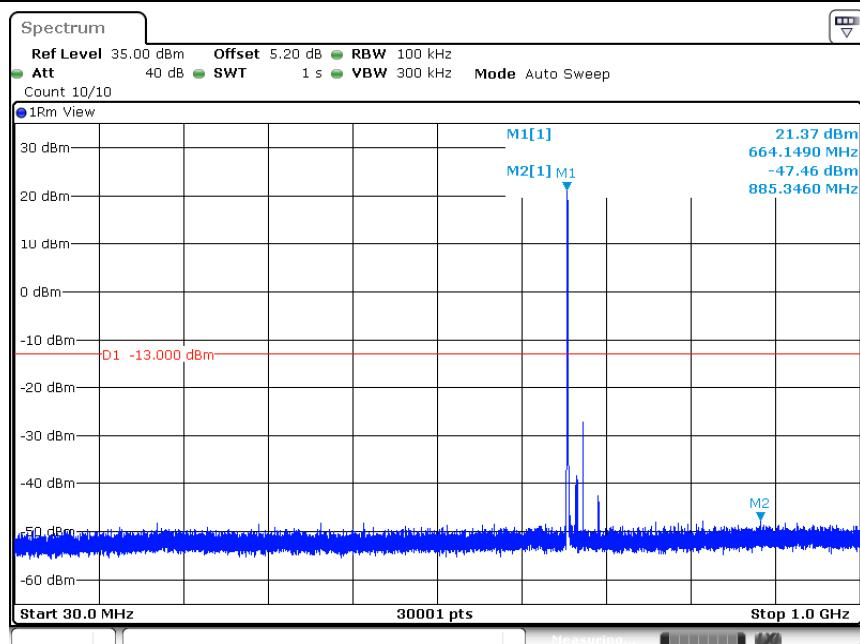
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Band71-20MHz-16QAM-133372-1RB#0-Range2:1000~10000MHz



Date: 22.SEP.2020 19:02:12

Band71-20MHz-64QAM-133222-1RB#0-Range1:30~1000MHz



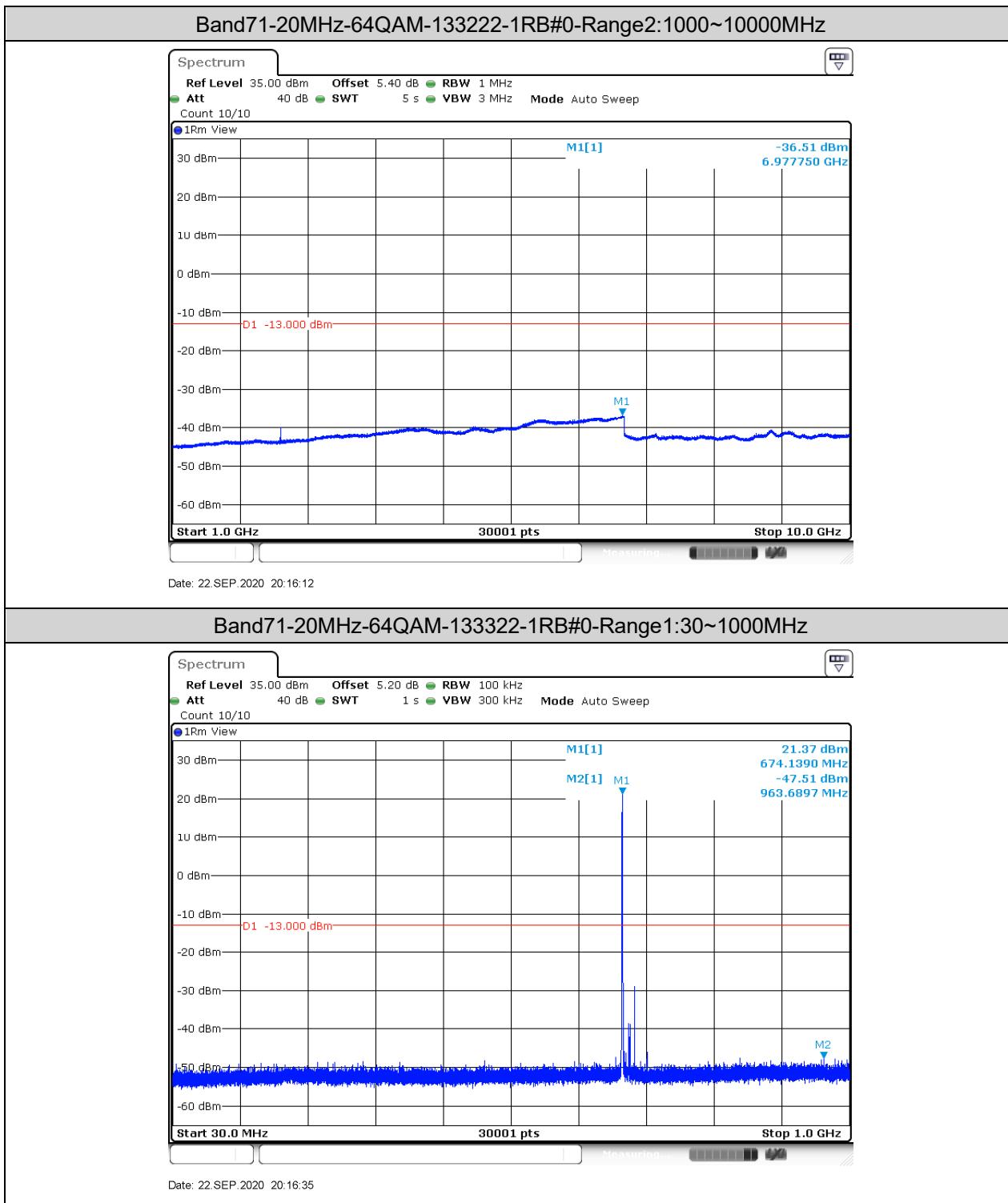
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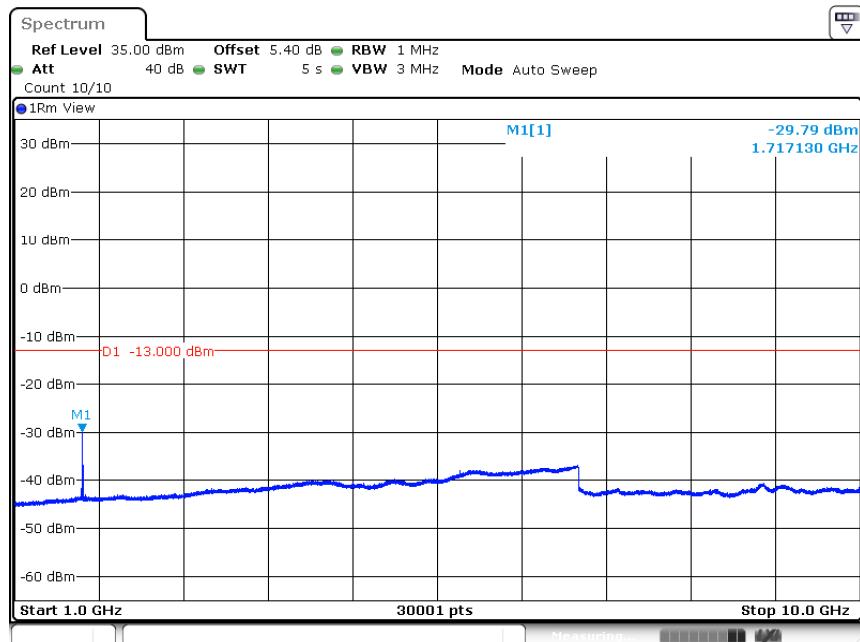


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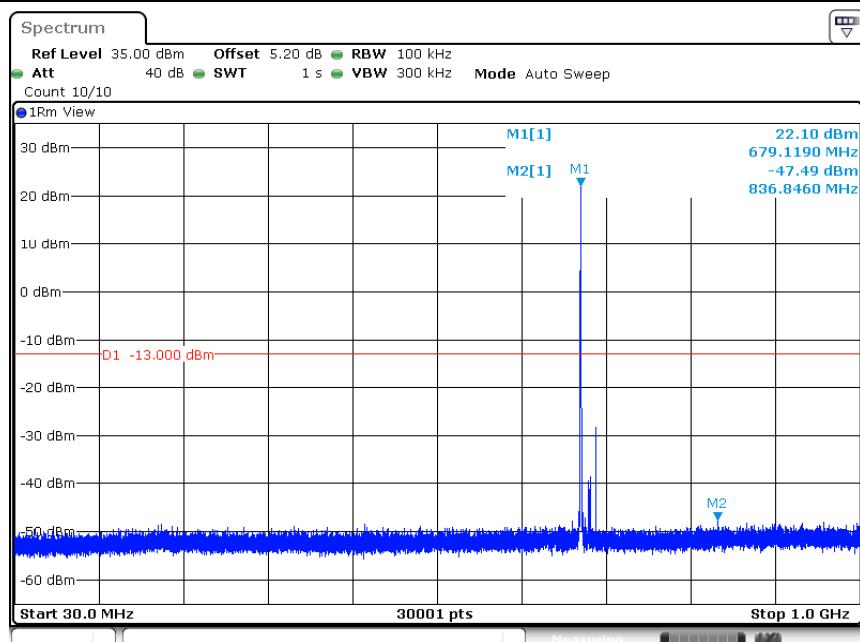


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Date: 22.SEP.2020 20:17:44

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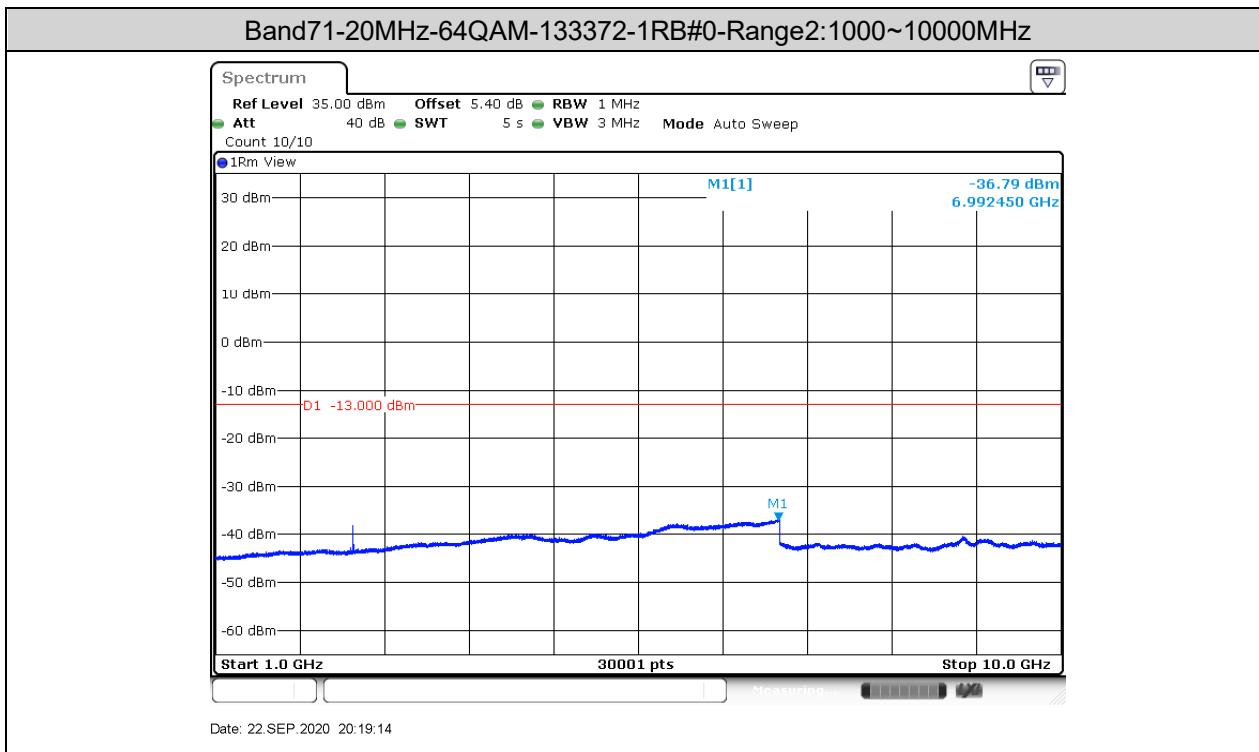
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7 Field Strength of Spurious Radiation

7.1 Test Mode =LTE/TM1 20MHz

7.1.1 Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
57.066667	-72.30	-13.00	59.30	Vertical
322.833333	-82.99	-13.00	69.99	Vertical
1328.000000	-60.82	-13.00	47.82	Vertical
1992.500000	-50.63	-13.00	37.63	Vertical
3984.262500	-58.00	-13.00	45.00	Vertical
7131.075000	-62.80	-13.00	49.80	Vertical
57.020000	-75.39	-13.00	62.39	Horizontal
206.633333	-85.40	-13.00	72.40	Horizontal
477.775000	-78.83	-13.00	65.83	Horizontal
1328.000000	-62.73	-13.00	49.73	Horizontal
1992.500000	-54.17	-13.00	41.17	Horizontal
3984.262500	-55.71	-13.00	42.71	Horizontal

7.1.2 Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
57.533333	-71.41	-13.00	58.41	Vertical
334.126667	-83.24	-13.00	70.24	Vertical
1343.000000	-65.08	-13.00	52.08	Vertical
2015.000000	-58.75	-13.00	45.75	Vertical
4029.112500	-63.68	-13.00	50.68	Vertical
7885.725000	-62.56	-13.00	49.56	Vertical
56.553333	-71.33	-13.00	58.33	Horizontal
192.680000	-80.16	-13.00	67.16	Horizontal
1343.000000	-66.21	-13.00	53.21	Horizontal
2360.500000	-59.05	-13.00	46.05	Horizontal
4029.112500	-62.14	-13.00	49.14	Horizontal
7042.350000	-63.10	-13.00	50.10	Horizontal

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7.1.3 Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
48.340000	-78.21	-13.00	65.21	Vertical
344.393333	-83.78	-13.00	70.78	Vertical
1358.000000	-65.42	-13.00	52.42	Vertical
2037.500000	-58.14	-13.00	45.14	Vertical
4074.450000	-63.35	-13.00	50.35	Vertical
7270.500000	-62.96	-13.00	49.96	Vertical
55.900000	-75.20	-13.00	62.20	Horizontal
186.753333	-85.03	-13.00	72.03	Horizontal
477.316667	-78.05	-13.00	65.05	Horizontal
1358.000000	-65.91	-13.00	52.91	Horizontal
2716.500000	-56.76	-13.00	43.76	Horizontal
4074.450000	-59.15	-13.00	46.15	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

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Volta ge [Vdc]	Temper ature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band71	20MHz	QPSK	133222	100RB#0	VL	NT	0.10	0.000149	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	VN	NT	3.10	0.004606	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	VH	NT	3.00	0.004458	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	VL	NT	-3.10	-0.004539	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	VN	NT	2.00	0.002928	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	VH	NT	0.90	0.001318	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	VL	NT	0.80	0.001163	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	VN	NT	3.20	0.004651	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	VH	NT	-0.50	-0.000727	±2.5	PASS
Band71	20MHz	16QAM	133222	100RB#0	VL	NT	0.30	0.000446	±2.5	PASS
Band71	20MHz	16QAM	133222	100RB#0	VN	NT	0.10	0.000149	±2.5	PASS
Band71	20MHz	16QAM	133222	100RB#0	VH	NT	0.40	0.000594	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	VL	NT	2.80	0.004100	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	VN	NT	0.30	0.000439	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	VH	NT	3.80	0.005564	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	VL	NT	0.60	0.000872	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	VN	NT	-0.10	-0.000145	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	VH	NT	1.40	0.002035	±2.5	PASS
Band71	20MHz	64QAM	133222	100RB#0	VL	NT	-1.00	-0.001486	±2.5	PASS
Band71	20MHz	64QAM	133222	100RB#0	VN	NT	-2.00	-0.002972	±2.5	PASS
Band71	20MHz	64QAM	133222	100RB#0	VH	NT	0.20	0.000297	±2.5	PASS
Band71	20MHz	64QAM	133322	100RB#0	VL	NT	-0.80	-0.001171	±2.5	PASS
Band71	20MHz	64QAM	133322	100RB#0	VN	NT	-0.50	-0.000732	±2.5	PASS
Band71	20MHz	64QAM	133322	100RB#0	VH	NT	-0.20	-0.000293	±2.5	PASS
Band71	20MHz	64QAM	133372	100RB#0	VL	NT	-2.10	-0.003052	±2.5	PASS
Band71	20MHz	64QAM	133372	100RB#0	VN	NT	-1.50	-0.002180	±2.5	PASS
Band71	20MHz	64QAM	133372	100RB#0	VH	NT	-2.10	-0.003052	±2.5	PASS

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8.2 Frequency Vs Temperature

Band	Bandwidth	Modulation	Channel	RB Configure	Temperature						Verdict
					Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict	
Band71	20MHz	QPSK	133222	100RB#0	NV	-30	1.70	0.002526	±2.5	PASS	
Band71	20MHz	QPSK	133222	100RB#0	NV	-20	-3.80	-0.005646	±2.5	PASS	
Band71	20MHz	QPSK	133222	100RB#0	NV	-10	0.80	0.001189	±2.5	PASS	
Band71	20MHz	QPSK	133222	100RB#0	NV	0	-1.80	-0.002675	±2.5	PASS	
Band71	20MHz	QPSK	133222	100RB#0	NV	10	1.80	0.002675	±2.5	PASS	
Band71	20MHz	QPSK	133222	100RB#0	NV	20	0.50	0.000743	±2.5	PASS	
Band71	20MHz	QPSK	133222	100RB#0	NV	30	-0.70	-0.001040	±2.5	PASS	
Band71	20MHz	QPSK	133222	100RB#0	NV	40	-1.50	-0.002229	±2.5	PASS	
Band71	20MHz	QPSK	133222	100RB#0	NV	50	1.70	0.002526	±2.5	PASS	
Band71	20MHz	QPSK	133322	100RB#0	NV	-30	0.20	0.000293	±2.5	PASS	
Band71	20MHz	QPSK	133322	100RB#0	NV	-20	-1.60	-0.002343	±2.5	PASS	
Band71	20MHz	QPSK	133322	100RB#0	NV	-10	-1.30	-0.001903	±2.5	PASS	
Band71	20MHz	QPSK	133322	100RB#0	NV	0	-0.10	-0.000146	±2.5	PASS	
Band71	20MHz	QPSK	133322	100RB#0	NV	10	0.30	0.000439	±2.5	PASS	
Band71	20MHz	QPSK	133322	100RB#0	NV	20	0.50	0.000732	±2.5	PASS	
Band71	20MHz	QPSK	133322	100RB#0	NV	30	1.30	0.001903	±2.5	PASS	
Band71	20MHz	QPSK	133322	100RB#0	NV	40	-2.30	-0.003367	±2.5	PASS	
Band71	20MHz	QPSK	133322	100RB#0	NV	50	-1.40	-0.002050	±2.5	PASS	
Band71	20MHz	QPSK	133372	100RB#0	NV	-30	-1.60	-0.002326	±2.5	PASS	
Band71	20MHz	QPSK	133372	100RB#0	NV	-20	2.30	0.003343	±2.5	PASS	
Band71	20MHz	QPSK	133372	100RB#0	NV	-10	-2.90	-0.004215	±2.5	PASS	
Band71	20MHz	QPSK	133372	100RB#0	NV	0	-3.10	-0.004506	±2.5	PASS	
Band71	20MHz	QPSK	133372	100RB#0	NV	10	1.50	0.002180	±2.5	PASS	
Band71	20MHz	QPSK	133372	100RB#0	NV	20	-0.80	-0.001163	±2.5	PASS	
Band71	20MHz	QPSK	133372	100RB#0	NV	30	-1.40	-0.002035	±2.5	PASS	
Band71	20MHz	QPSK	133372	100RB#0	NV	40	-2.80	-0.004070	±2.5	PASS	
Band71	20MHz	QPSK	133372	100RB#0	NV	50	-2.70	-0.003924	±2.5	PASS	
Band71	20MHz	16QAM	133222	100RB#0	NV	-30	2.00	0.002972	±2.5	PASS	
Band71	20MHz	16QAM	133222	100RB#0	NV	-20	-1.80	-0.002675	±2.5	PASS	
Band71	20MHz	16QAM	133222	100RB#0	NV	-10	-1.30	-0.001932	±2.5	PASS	
Band71	20MHz	16QAM	133222	100RB#0	NV	0	-0.50	-0.000743	±2.5	PASS	
Band71	20MHz	16QAM	133222	100RB#0	NV	10	0.50	0.000743	±2.5	PASS	
Band71	20MHz	16QAM	133222	100RB#0	NV	20	-3.90	-0.005795	±2.5	PASS	

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Band71	20MHz	16QAM	133222	100RB#0	NV	30	1.80	0.002675	±2.5	PASS
Band71	20MHz	16QAM	133222	100RB#0	NV	40	-1.90	-0.002823	±2.5	PASS
Band71	20MHz	16QAM	133222	100RB#0	NV	50	-1.00	-0.001486	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	NV	-30	-0.80	-0.001171	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	NV	-20	-2.70	-0.003953	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	NV	-10	-0.60	-0.000878	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	NV	0	1.80	0.002635	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	NV	10	-0.50	-0.000732	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	NV	20	1.00	0.001464	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	NV	30	0.50	0.000732	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	NV	40	0.50	0.000732	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	NV	50	1.40	0.002050	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	NV	-30	-1.30	-0.001890	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	NV	-20	1.10	0.001599	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	NV	-10	-0.20	-0.000291	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	NV	0	1.20	0.001744	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	NV	10	-2.00	-0.002907	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	NV	20	2.60	0.003779	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	NV	30	0.10	0.000145	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	NV	40	0.80	0.001163	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	NV	50	1.70	0.002471	±2.5	PASS
Band71	20MHz	64QAM	133222	100RB#0	NV	-30	-0.10	-0.000149	±2.5	PASS
Band71	20MHz	64QAM	133222	100RB#0	NV	-20	-0.90	-0.001337	±2.5	PASS
Band71	20MHz	64QAM	133222	100RB#0	NV	-10	3.60	0.005349	±2.5	PASS
Band71	20MHz	64QAM	133222	100RB#0	NV	0	-0.60	-0.000892	±2.5	PASS
Band71	20MHz	64QAM	133222	100RB#0	NV	10	-1.20	-0.001783	±2.5	PASS
Band71	20MHz	64QAM	133222	100RB#0	NV	20	3.40	0.005052	±2.5	PASS
Band71	20MHz	64QAM	133222	100RB#0	NV	30	0.50	0.000743	±2.5	PASS
Band71	20MHz	64QAM	133222	100RB#0	NV	40	-0.80	-0.001189	±2.5	PASS
Band71	20MHz	64QAM	133222	100RB#0	NV	50	-0.80	-0.001189	±2.5	PASS
Band71	20MHz	64QAM	133322	100RB#0	NV	-30	2.30	0.003367	±2.5	PASS
Band71	20MHz	64QAM	133322	100RB#0	NV	-20	-1.00	-0.001464	±2.5	PASS
Band71	20MHz	64QAM	133322	100RB#0	NV	-10	-1.10	-0.001611	±2.5	PASS
Band71	20MHz	64QAM	133322	100RB#0	NV	0	-1.60	-0.002343	±2.5	PASS
Band71	20MHz	64QAM	133322	100RB#0	NV	10	0.10	0.000146	±2.5	PASS
Band71	20MHz	64QAM	133322	100RB#0	NV	20	0.10	0.000146	±2.5	PASS
Band71	20MHz	64QAM	133322	100RB#0	NV	30	0.70	0.001025	±2.5	PASS

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Band71	20MHz	64QAM	133322	100RB#0	NV	40	-1.20	-0.001757	±2.5	PASS
Band71	20MHz	64QAM	133322	100RB#0	NV	50	-0.10	-0.000146	±2.5	PASS
Band71	20MHz	64QAM	133372	100RB#0	NV	-30	-2.30	-0.003343	±2.5	PASS
Band71	20MHz	64QAM	133372	100RB#0	NV	-20	-3.00	-0.004360	±2.5	PASS
Band71	20MHz	64QAM	133372	100RB#0	NV	-10	1.40	0.002035	±2.5	PASS
Band71	20MHz	64QAM	133372	100RB#0	NV	0	-3.00	-0.004360	±2.5	PASS
Band71	20MHz	64QAM	133372	100RB#0	NV	10	-2.90	-0.004215	±2.5	PASS
Band71	20MHz	64QAM	133372	100RB#0	NV	20	-2.30	-0.003343	±2.5	PASS
Band71	20MHz	64QAM	133372	100RB#0	NV	30	-0.70	-0.001017	±2.5	PASS
Band71	20MHz	64QAM	133372	100RB#0	NV	40	-1.30	-0.001890	±2.5	PASS
Band71	20MHz	64QAM	133372	100RB#0	NV	50	-1.40	-0.002035	±2.5	PASS

The End

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