



# Appendix B

## E-UTRA Band 5



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# 1 Effective (Isotropic) Radiated Power

## 1.1. Test Result

Band	Bandwidth h	Modulation	Channel	RB Configuration	Conducted Power(dBm)	ERP (dBm)	limit (dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	23.95	15.91	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	23.50	15.46	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	24.15	16.11	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#1	23.56	15.52	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#0	23.64	15.6	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#3	23.60	15.56	38.45	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	22.83	14.79	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	23.85	15.81	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	23.48	15.44	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	23.67	15.63	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#0	23.52	15.48	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#1	23.44	15.4	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#3	23.40	15.36	38.45	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	22.57	14.53	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	23.91	15.87	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	23.81	15.77	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	23.70	15.66	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#3	23.56	15.52	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#1	23.36	15.32	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#0	23.54	15.5	38.45	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	22.55	14.51	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#0	22.37	14.33	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#5	22.25	14.21	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#2	22.33	14.29	38.45	PASS
Band5	1.4MHz	64QAM	20407	3RB#0	21.73	13.69	38.45	PASS
Band5	1.4MHz	64QAM	20407	3RB#1	21.86	13.82	38.45	PASS
Band5	1.4MHz	64QAM	20407	3RB#3	21.70	13.66	38.45	PASS



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Band5	1.4MHz	64QAM	20407	6RB#0	20.80	12.76	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#0	22.29	14.25	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#2	21.94	13.9	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#5	22.02	13.98	38.45	PASS
Band5	1.4MHz	64QAM	20525	3RB#3	21.63	13.59	38.45	PASS
Band5	1.4MHz	64QAM	20525	3RB#1	21.61	13.57	38.45	PASS
Band5	1.4MHz	64QAM	20525	3RB#0	21.50	13.46	38.45	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	20.60	12.56	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#0	22.51	14.47	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#2	21.94	13.9	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#5	22.54	14.5	38.45	PASS
Band5	1.4MHz	64QAM	20643	3RB#0	21.63	13.59	38.45	PASS
Band5	1.4MHz	64QAM	20643	3RB#1	21.70	13.66	38.45	PASS
Band5	1.4MHz	64QAM	20643	3RB#3	21.66	13.62	38.45	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	20.66	12.62	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	23.26	15.22	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	23.14	15.1	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	23.22	15.18	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#3	22.62	14.58	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#1	22.75	14.71	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#0	22.59	14.55	38.45	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	21.69	13.65	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	23.18	15.14	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	22.83	14.79	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	22.91	14.87	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#0	22.52	14.48	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#1	22.50	14.46	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#3	22.39	14.35	38.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	21.49	13.45	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	23.40	15.36	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	22.83	14.79	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	23.43	15.39	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#0	22.52	14.48	38.45	PASS



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Band5	1.4MHz	16QAM	20643	3RB#1	22.59	14.55	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#3	22.55	14.51	38.45	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	21.55	13.51	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#14	23.96	15.92	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#8	23.58	15.54	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#0	24.20	16.16	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#4	22.69	14.65	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#0	22.67	14.63	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#7	22.73	14.69	38.45	PASS
Band5	3MHz	QPSK	20415	15RB#0	22.83	14.79	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#8	23.90	15.86	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#14	23.57	15.53	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#0	23.77	15.73	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#7	22.60	14.56	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#0	22.50	14.46	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#4	22.53	14.49	38.45	PASS
Band5	3MHz	QPSK	20525	15RB#0	22.69	14.65	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#14	23.96	15.92	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#8	23.95	15.91	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#0	23.82	15.78	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#7	22.68	14.64	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#0	22.47	14.43	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#4	22.59	14.55	38.45	PASS
Band5	3MHz	QPSK	20635	15RB#0	22.66	14.62	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#8	22.62	14.58	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#14	22.30	14.26	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#0	22.59	14.55	38.45	PASS
Band5	3MHz	64QAM	20415	8RB#0	20.98	12.94	38.45	PASS
Band5	3MHz	64QAM	20415	8RB#4	21.01	12.97	38.45	PASS
Band5	3MHz	64QAM	20415	8RB#7	20.90	12.86	38.45	PASS
Band5	3MHz	64QAM	20415	15RB#0	21.01	12.97	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#14	22.46	14.42	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#0	22.23	14.19	38.45	PASS



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Band5	3MHz	64QAM	20525	1RB#8	22.38	14.34	38.45	PASS
Band5	3MHz	64QAM	20525	8RB#0	20.86	12.82	38.45	PASS
Band5	3MHz	64QAM	20525	8RB#4	20.75	12.71	38.45	PASS
Band5	3MHz	64QAM	20525	8RB#7	20.90	12.86	38.45	PASS
Band5	3MHz	64QAM	20525	15RB#0	20.84	12.8	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#0	22.62	14.58	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#14	22.14	14.1	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#8	22.69	14.65	38.45	PASS
Band5	3MHz	64QAM	20635	8RB#7	20.92	12.88	38.45	PASS
Band5	3MHz	64QAM	20635	8RB#0	20.93	12.89	38.45	PASS
Band5	3MHz	64QAM	20635	8RB#4	20.87	12.83	38.45	PASS
Band5	3MHz	64QAM	20635	15RB#0	20.86	12.82	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#0	23.37	15.33	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#8	23.16	15.12	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#14	23.34	15.3	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#4	21.67	13.63	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#0	21.80	13.76	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#7	21.60	13.56	38.45	PASS
Band5	3MHz	16QAM	20415	15RB#0	21.80	13.76	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#0	23.28	15.24	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#14	22.93	14.89	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#8	23.04	15	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#0	21.62	13.58	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#7	21.60	13.56	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#4	21.52	13.48	38.45	PASS
Band5	3MHz	16QAM	20525	15RB#0	21.57	13.53	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#0	23.46	15.42	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#14	22.89	14.85	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#8	23.47	15.43	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#0	21.59	13.55	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#4	21.61	13.57	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#7	21.58	13.54	38.45	PASS
Band5	3MHz	16QAM	20635	15RB#0	21.69	13.65	38.45	PASS



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Band5	5MHz	QPSK	20425	1RB#24	24.03	15.99	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#12	23.70	15.66	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#0	24.26	16.22	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#13	22.74	14.7	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#6	22.71	14.67	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#0	22.77	14.73	38.45	PASS
Band5	5MHz	QPSK	20425	25RB#0	22.88	14.84	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#0	24.04	16	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#12	23.65	15.61	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#24	23.83	15.79	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#0	22.62	14.58	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#6	22.62	14.58	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#13	22.62	14.58	38.45	PASS
Band5	5MHz	QPSK	20525	25RB#0	22.76	14.72	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#0	23.98	15.94	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#12	23.97	15.93	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#24	23.84	15.8	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#0	22.71	14.67	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#6	22.60	14.56	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#13	22.68	14.64	38.45	PASS
Band5	5MHz	QPSK	20625	25RB#0	22.67	14.63	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#24	22.48	14.44	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#12	22.27	14.23	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#0	22.45	14.41	38.45	PASS
Band5	5MHz	64QAM	20425	12RB#0	20.78	12.74	38.45	PASS
Band5	5MHz	64QAM	20425	12RB#6	20.91	12.87	38.45	PASS
Band5	5MHz	64QAM	20425	12RB#13	20.71	12.67	38.45	PASS
Band5	5MHz	64QAM	20425	25RB#0	20.91	12.87	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#12	22.39	14.35	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#24	22.04	14	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#0	22.15	14.11	38.45	PASS
Band5	5MHz	64QAM	20525	12RB#13	20.73	12.69	38.45	PASS
Band5	5MHz	64QAM	20525	12RB#0	20.71	12.67	38.45	PASS



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Band5	5MHz	64QAM	20525	12RB#6	20.63	12.59	38.45	PASS
Band5	5MHz	64QAM	20525	25RB#0	20.68	12.64	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#0	22.57	14.53	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#12	22.00	13.96	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#24	22.58	14.54	38.45	PASS
Band5	5MHz	64QAM	20625	12RB#6	20.70	12.66	38.45	PASS
Band5	5MHz	64QAM	20625	12RB#0	20.72	12.68	38.45	PASS
Band5	5MHz	64QAM	20625	12RB#13	20.69	12.65	38.45	PASS
Band5	5MHz	64QAM	20625	25RB#0	20.80	12.76	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#12	23.37	15.33	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#0	23.17	15.13	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#24	23.45	15.41	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#0	21.79	13.75	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#13	21.84	13.8	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#6	21.69	13.65	38.45	PASS
Band5	5MHz	16QAM	20425	25RB#0	21.86	13.82	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#12	23.31	15.27	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#24	22.98	14.94	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#0	23.18	15.14	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#0	21.70	13.66	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#6	21.63	13.59	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#13	21.66	13.62	38.45	PASS
Band5	5MHz	16QAM	20525	25RB#0	21.59	13.55	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#0	23.47	15.43	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#12	22.97	14.93	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#24	23.52	15.48	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#0	21.72	13.68	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#6	21.71	13.67	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#13	21.68	13.64	38.45	PASS
Band5	5MHz	16QAM	20625	25RB#0	21.74	13.7	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#0	24.17	16.13	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#24	23.78	15.74	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#49	24.27	16.23	38.45	PASS



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Band5	10MHz	QPSK	20450	25RB#12	22.79	14.75	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#0	22.81	14.77	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#25	22.85	14.81	38.45	PASS
Band5	10MHz	QPSK	20450	50RB#0	22.88	14.84	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#49	24.04	16	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#0	23.65	15.61	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#24	23.88	15.84	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#0	22.72	14.68	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#12	22.65	14.61	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#25	22.74	14.7	38.45	PASS
Band5	10MHz	QPSK	20525	50RB#0	22.88	14.84	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#24	24.03	15.99	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#0	24.02	15.98	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#49	23.92	15.88	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#12	22.71	14.67	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#0	22.70	14.66	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#25	22.69	14.65	38.45	PASS
Band5	10MHz	QPSK	20600	50RB#0	22.78	14.74	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#0	22.48	14.44	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#24	22.28	14.24	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#49	22.56	14.52	38.45	PASS
Band5	10MHz	64QAM	20450	25RB#25	20.90	12.86	38.45	PASS
Band5	10MHz	64QAM	20450	25RB#0	20.95	12.91	38.45	PASS
Band5	10MHz	64QAM	20450	25RB#12	20.80	12.76	38.45	PASS
Band5	10MHz	64QAM	20450	50RB#0	20.97	12.93	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#0	22.42	14.38	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#24	22.09	14.05	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#49	22.29	14.25	38.45	PASS
Band5	10MHz	64QAM	20525	25RB#0	20.81	12.77	38.45	PASS
Band5	10MHz	64QAM	20525	25RB#12	20.74	12.7	38.45	PASS
Band5	10MHz	64QAM	20525	25RB#25	20.77	12.73	38.45	PASS
Band5	10MHz	64QAM	20525	50RB#0	20.70	12.66	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#49	22.58	14.54	38.45	PASS



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Band5	10MHz	64QAM	20600	1RB#0	22.08	14.04	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#24	22.63	14.59	38.45	PASS
Band5	10MHz	64QAM	20600	25RB#0	20.83	12.79	38.45	PASS
Band5	10MHz	64QAM	20600	25RB#25	20.82	12.78	38.45	PASS
Band5	10MHz	64QAM	20600	25RB#12	20.79	12.75	38.45	PASS
Band5	10MHz	64QAM	20600	50RB#0	20.85	12.81	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#0	23.51	15.47	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#24	23.19	15.15	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#49	23.48	15.44	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#0	21.87	13.83	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#12	21.90	13.86	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#25	21.79	13.75	38.45	PASS
Band5	10MHz	16QAM	20450	50RB#0	21.90	13.86	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#0	23.35	15.31	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#49	23.12	15.08	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#24	23.27	15.23	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#0	21.75	13.71	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#12	21.64	13.6	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#25	21.79	13.75	38.45	PASS
Band5	10MHz	16QAM	20525	50RB#0	21.73	13.69	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#0	23.51	15.47	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#49	23.03	14.99	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#24	23.58	15.54	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#25	21.81	13.77	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#12	21.82	13.78	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#0	21.76	13.72	38.45	PASS
Band5	10MHz	16QAM	20600	50RB#0	21.75	13.71	38.45	PASS

Remark:

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

$$ERP [dBm] = \text{Conducted Power [dBm]} + \text{Gain [dBd]}$$

$$EIRP [dBm] = \text{Conducted Power [dBm]} + \text{Gain [dBi]}$$



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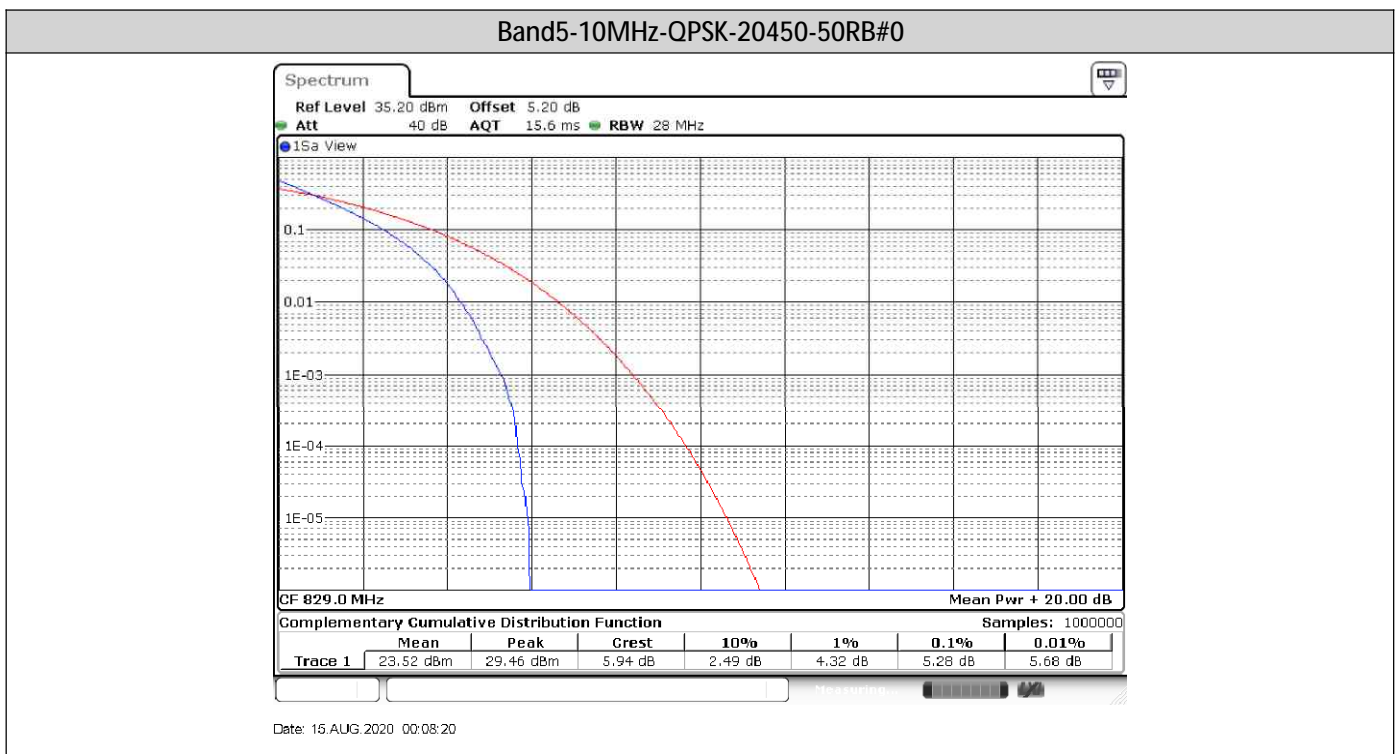


## 2. Peak-to-Average Ratio (CCDF)

### 2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	5.28	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.33	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.22	13	PASS
Band5	10MHz	64QAM	20450	50RB#0	6.35	13	PASS
Band5	10MHz	64QAM	20525	50RB#0	6.35	13	PASS
Band5	10MHz	64QAM	20600	50RB#0	6.35	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	5.86	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	5.97	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	5.97	13	PASS

### 2.2. Test Plots



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**Band5-10MHz-16QAM-20525-50RB#0**



Date: 15.AUG.2020 00:08:54

**Band5-10MHz-16QAM-20600-50RB#0**



Date: 15.AUG.2020 00:09:17



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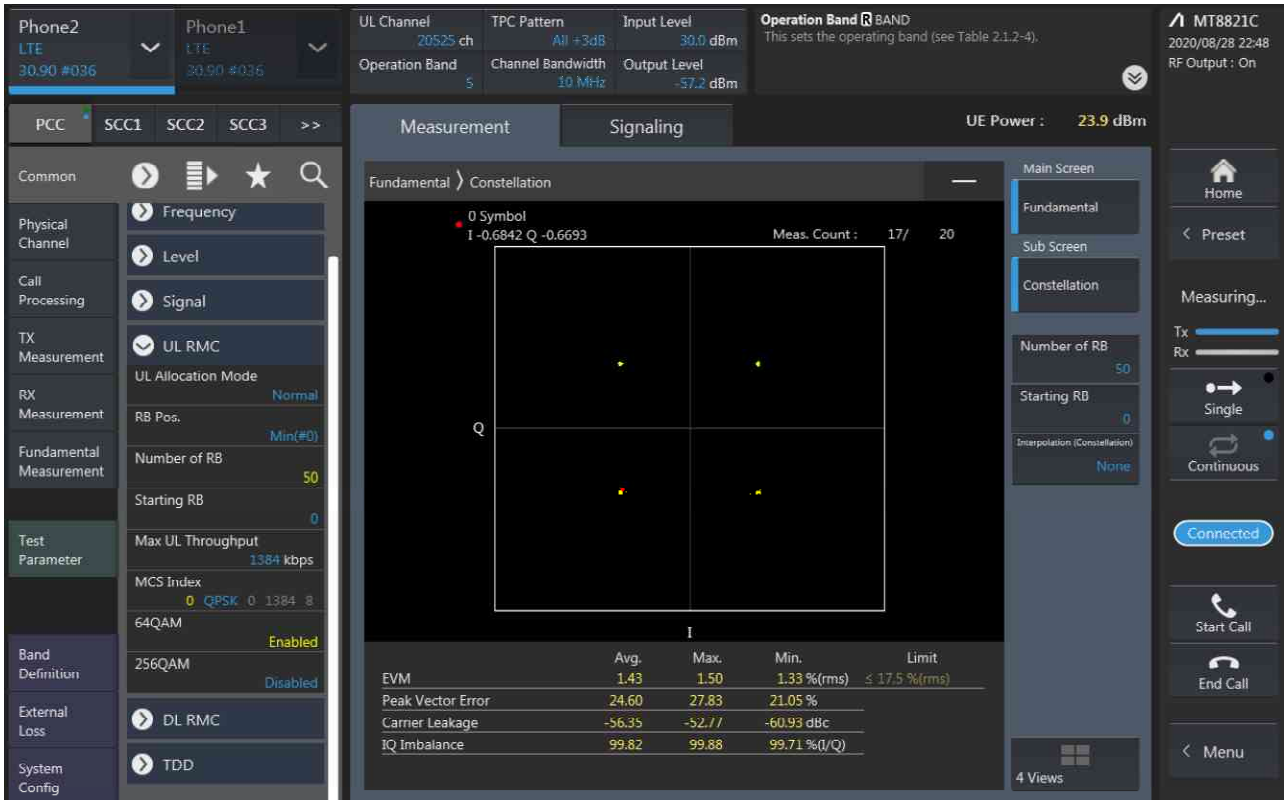




### 3. Modulation Characteristics

#### 3.1. Test Mode = LTE /TM1 10MHz

##### 3.1.1. Test Channel = MCH



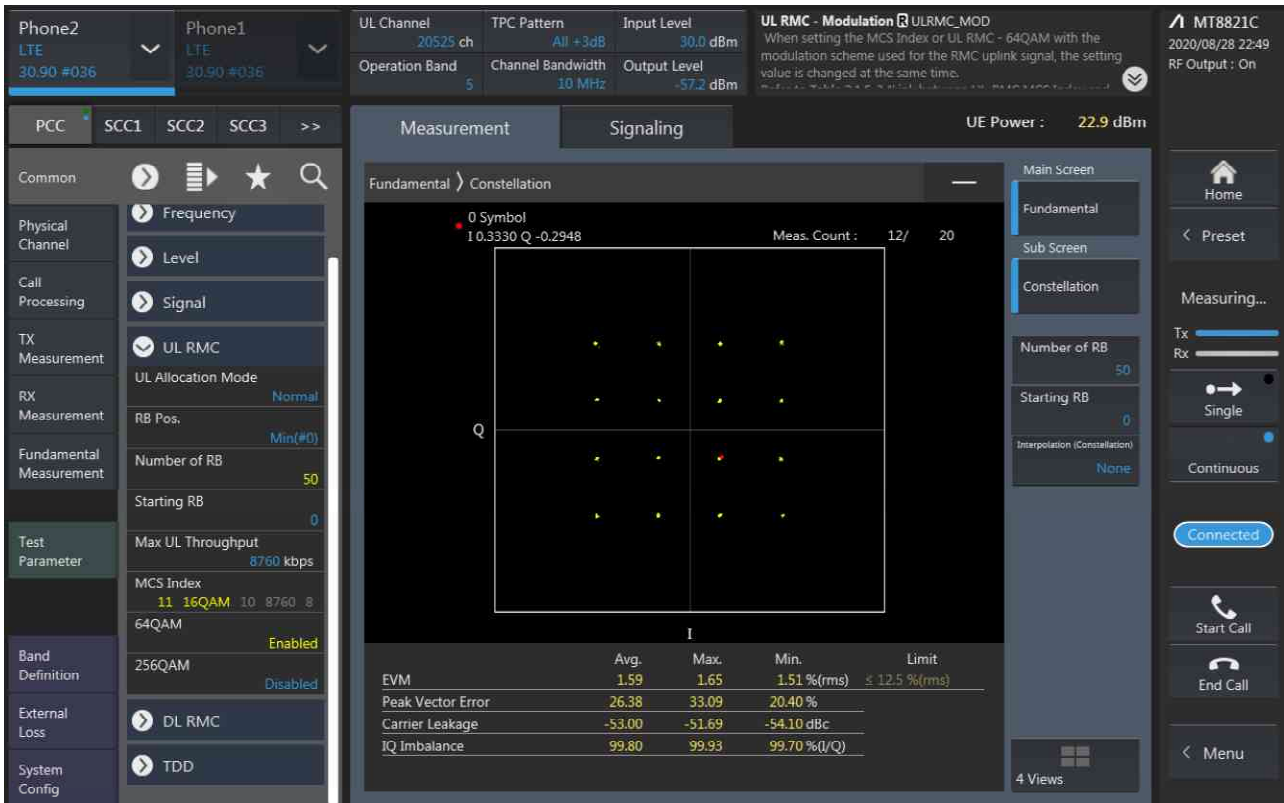
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### 3.2. Test Mode = LTE /TM2 10MHz

#### 3.2.1. Test Channel = MCH

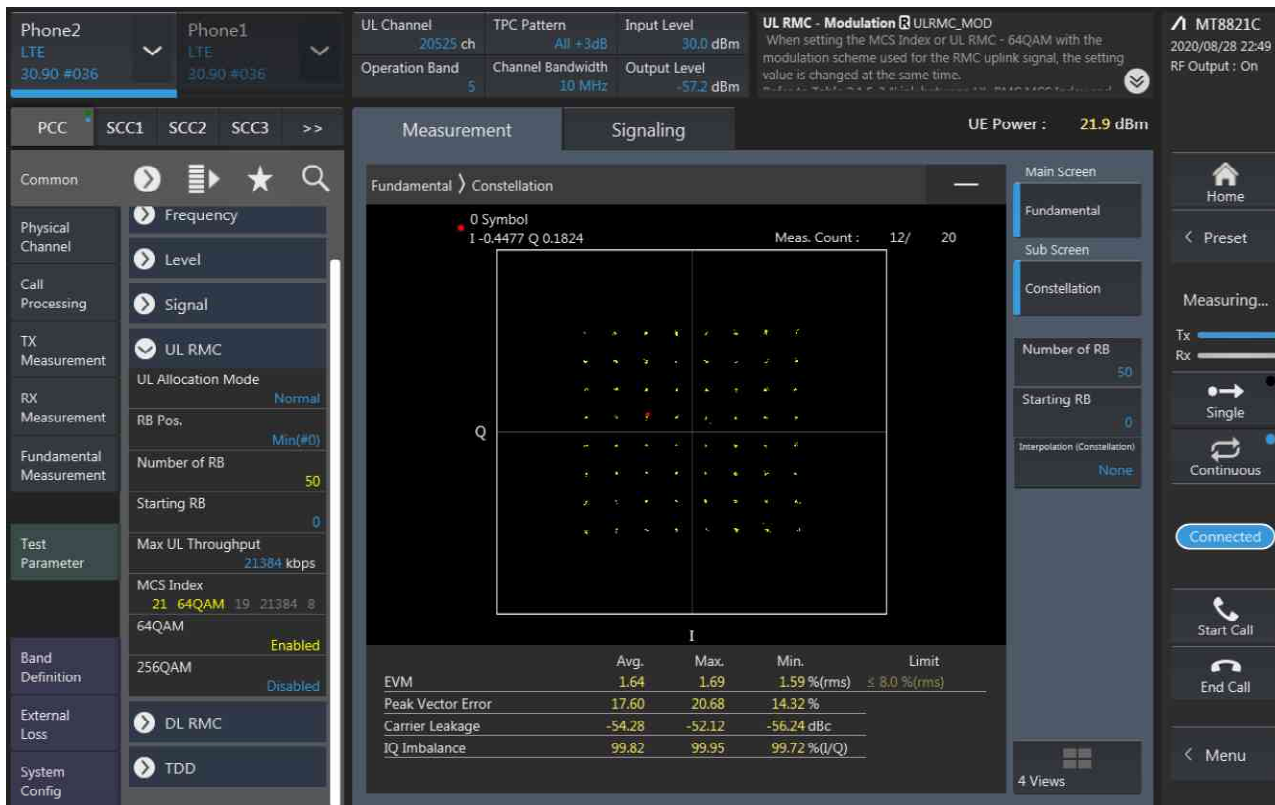


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### 3.3. Test Mode = LTE /TM3 10MHz

#### 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
Band5	1.4MHz	QPSK	20407	6RB#0	1.094	1.284	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.091	1.284	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.094	1.299	PASS
Band5	1.4MHz	64QAM	20407	6RB#0	1.097	1.287	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	1.097	1.296	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	1.097	1.293	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.091	1.278	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.091	1.278	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.091	1.278	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.697	2.988	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.697	3.000	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.697	2.982	PASS
Band5	3MHz	64QAM	20415	15RB#0	2.691	2.982	PASS
Band5	3MHz	64QAM	20525	15RB#0	2.685	2.976	PASS
Band5	3MHz	64QAM	20635	15RB#0	2.691	2.976	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.685	2.976	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.691	2.964	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.691	2.964	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.476	4.920	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.476	4.950	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.476	4.900	PASS
Band5	5MHz	64QAM	20425	25RB#0	4.466	4.920	PASS
Band5	5MHz	64QAM	20525	25RB#0	4.476	4.920	PASS
Band5	5MHz	64QAM	20625	25RB#0	4.476	4.890	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.476	4.960	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.486	4.970	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.496	4.960	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.891	9.660	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.951	9.780	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.931	9.740	PASS
Band5	10MHz	64QAM	20450	50RB#0	8.911	9.640	PASS



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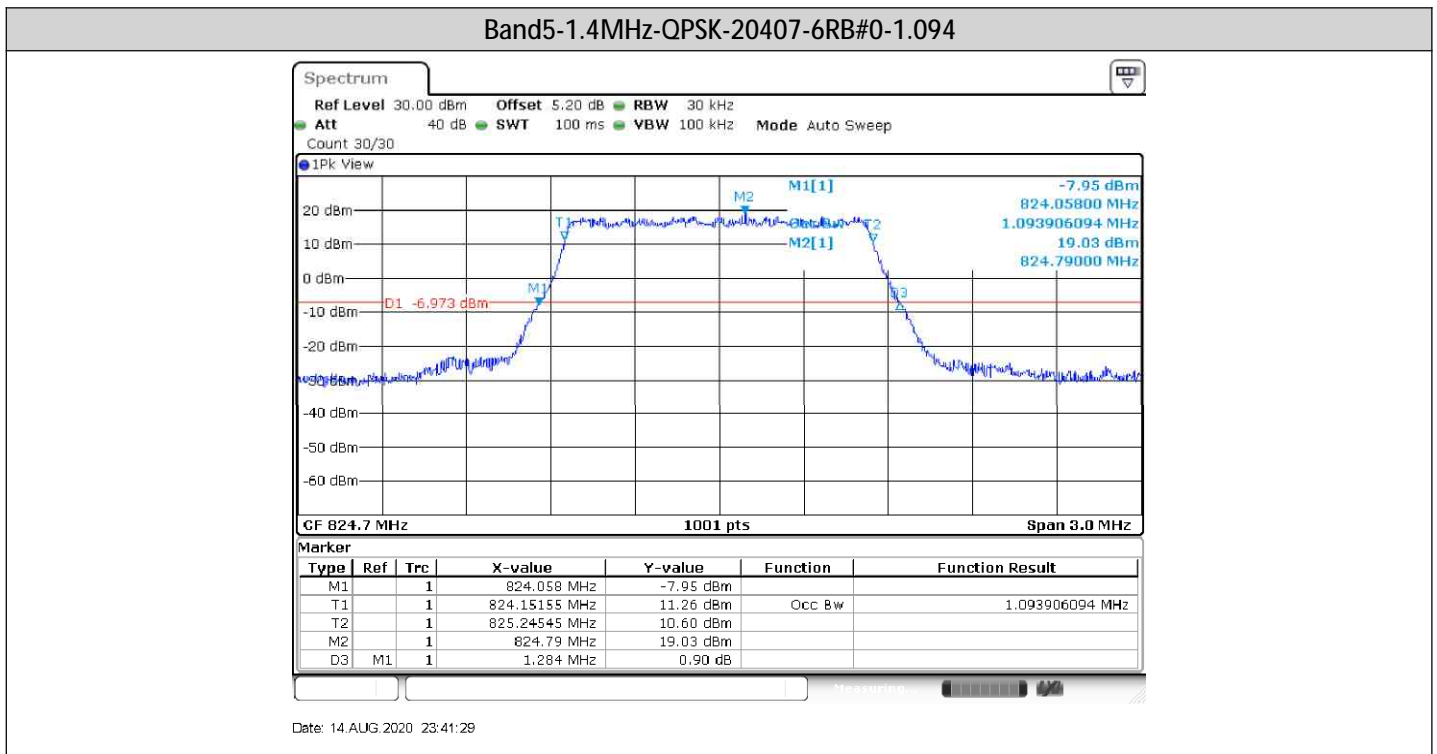
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Band5	10MHz	64QAM	20525	50RB#0	8.931	9.740	PASS
Band5	10MHz	64QAM	20600	50RB#0	8.911	9.660	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.911	9.700	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.951	9.800	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.911	9.700	PASS

## 4.2. Test Plots

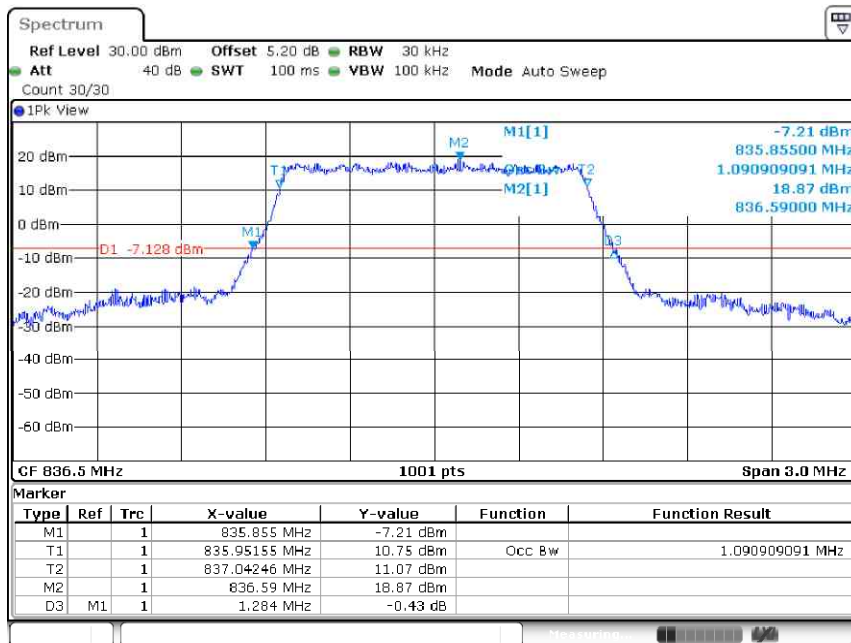


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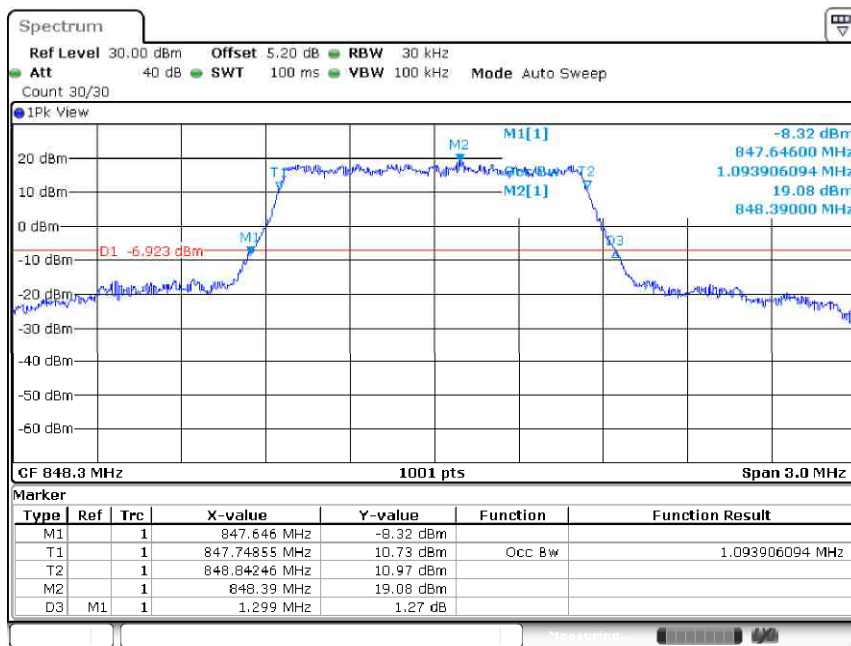


Band5-1.4MHz-QPSK-20525-6RB#0-1.091



Date: 14.AUG.2020 23:41:54

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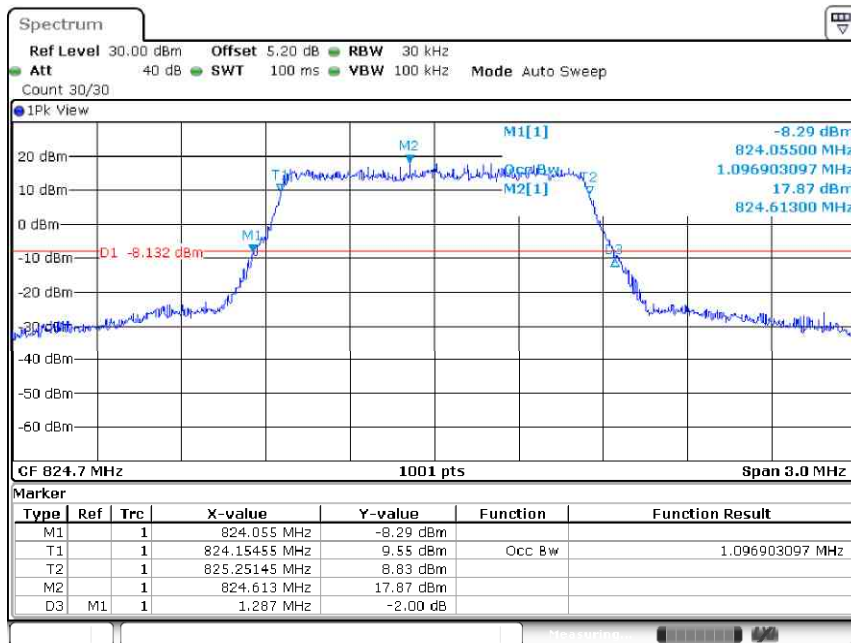
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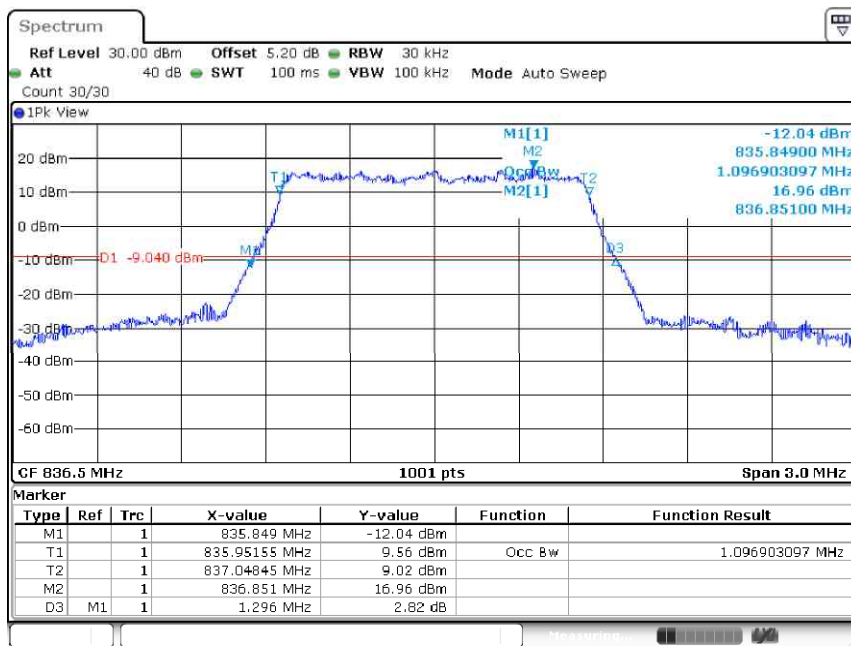


Band5-1.4MHz-64QAM-20407-6RB#0-1.097



Date: 15.AUG.2020 02:03:51

Band5-1.4MHz-64QAM-20525-6RB#0-1.097



Date: 15.AUG.2020 02:04:04



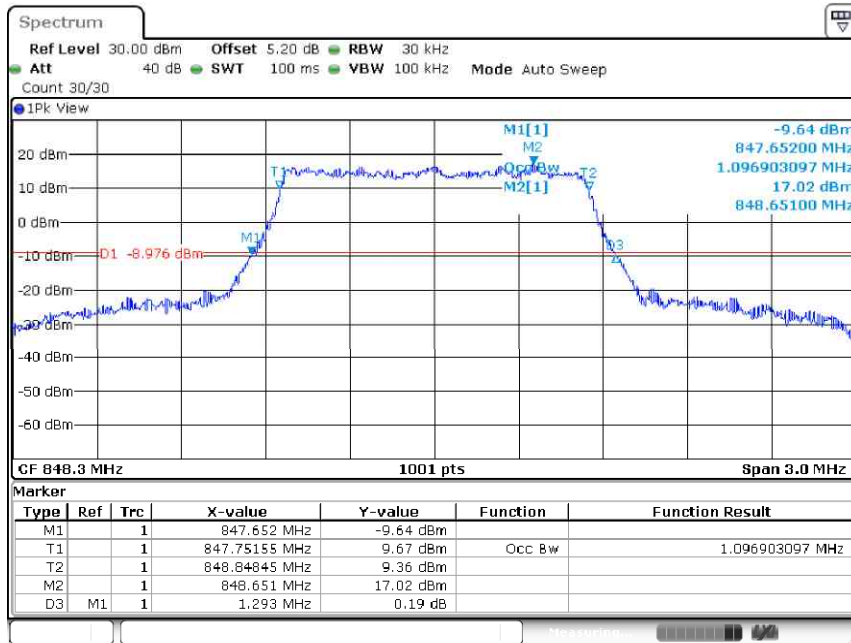
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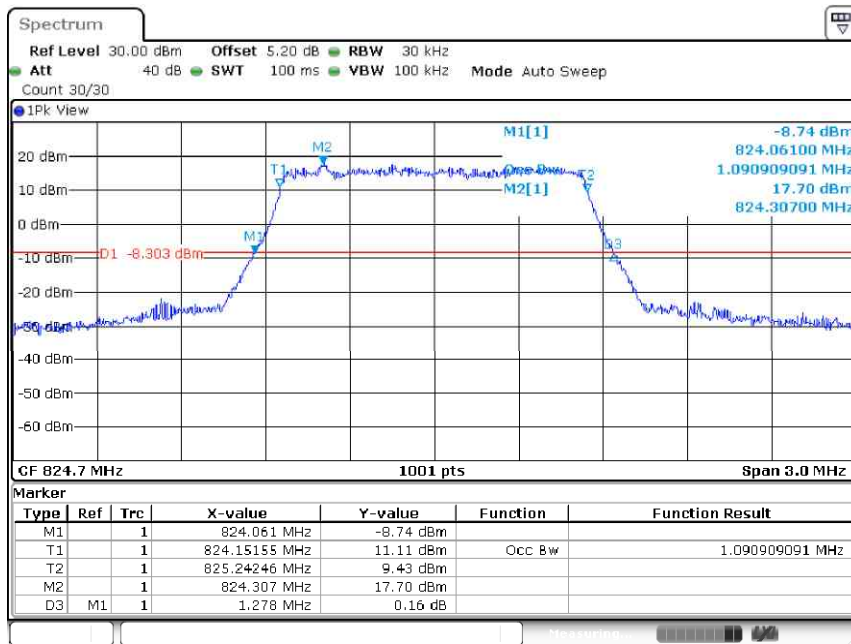


Band5-1.4MHz-64QAM-20643-6RB#0-1.097



Date: 16.AUG 2020 02:04:17

Band5-1.4MHz-16QAM-20407-6RB#0-1.091



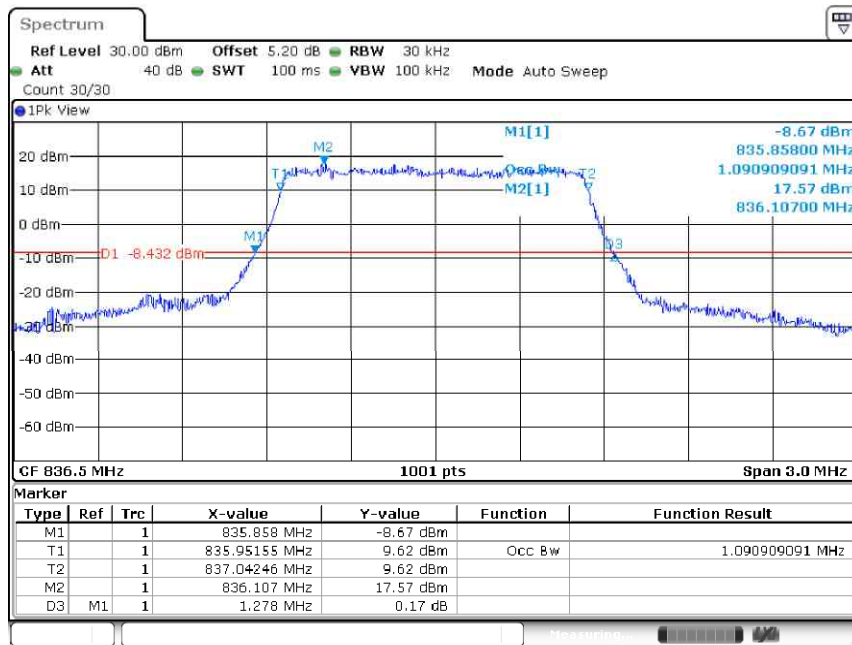
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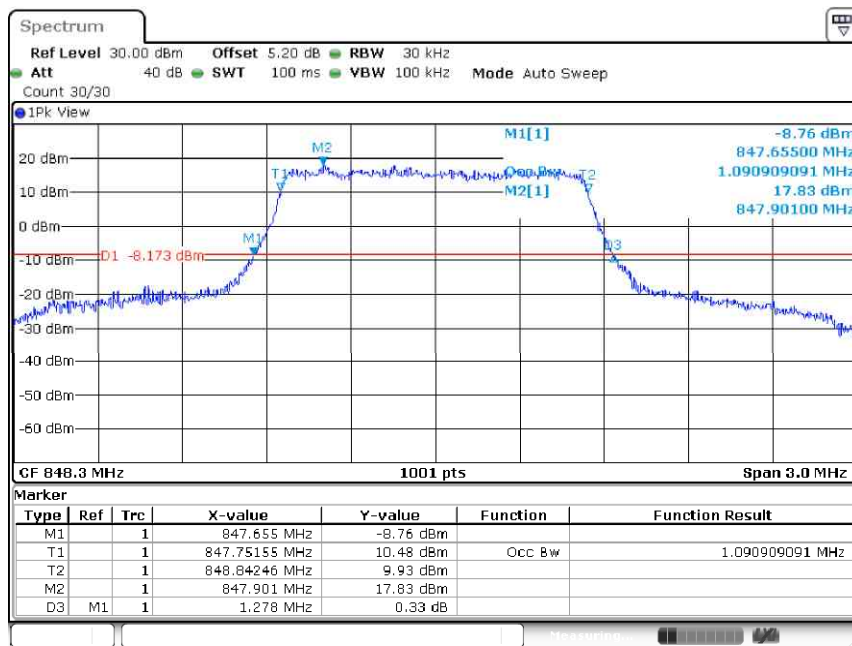


Band5-1.4MHz-16QAM-20525-6RB#0-1.091



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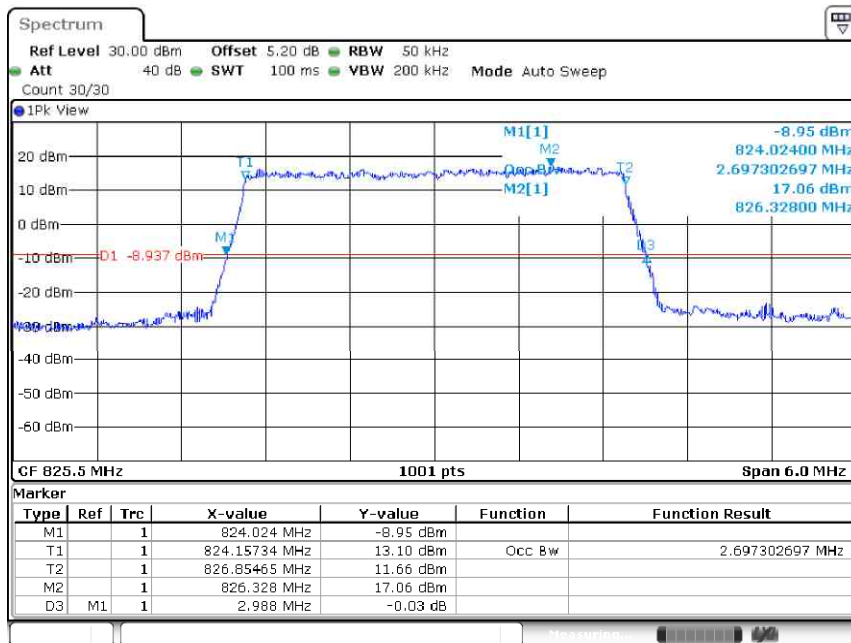
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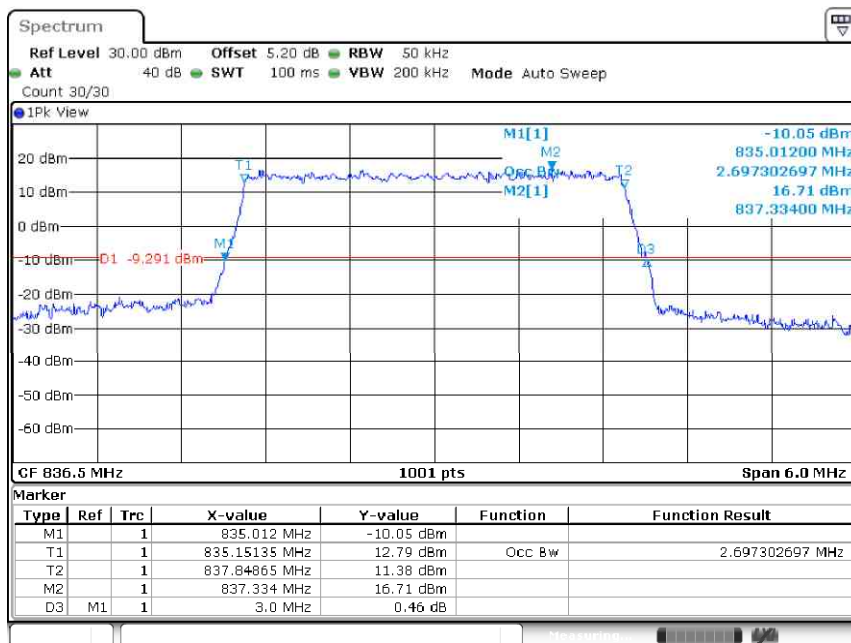


Band5-3MHz-QPSK-20415-15RB#0-2.697



Date: 14.AUG.2020 23:42:52

Band5-3MHz-QPSK-20525-15RB#0-2.697



Date: 14.AUG.2020 23:43:18

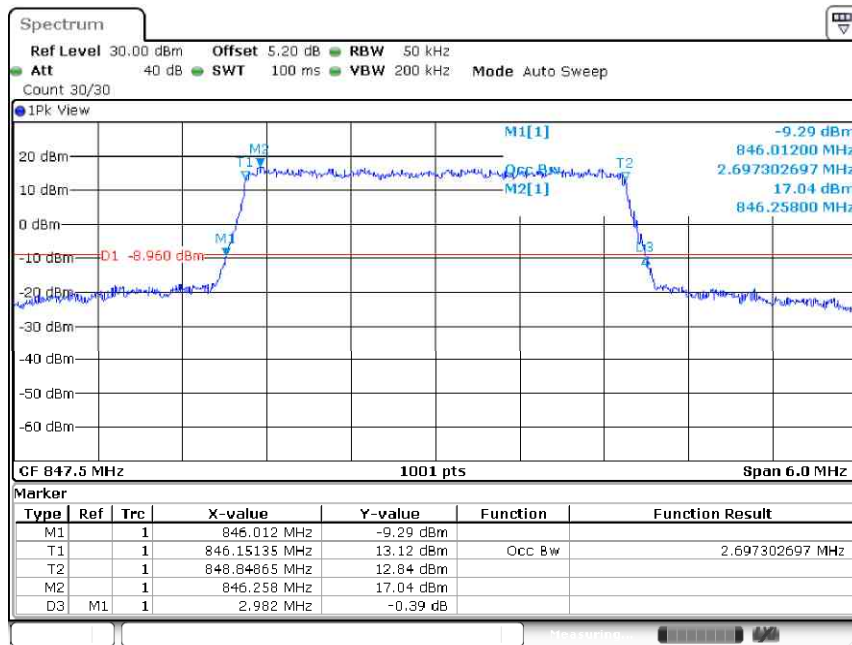


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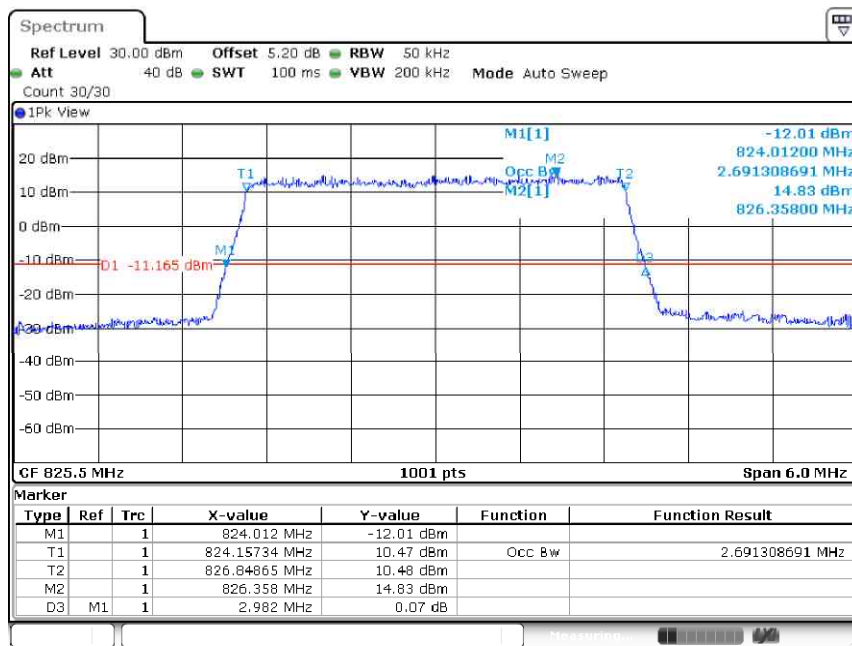


Band5-3MHz-QPSK-20635-15RB#0-2.697



Date: 14.AUG.2020 23:43:45

Band5-3MHz-64QAM-20415-15RB#0-2.691



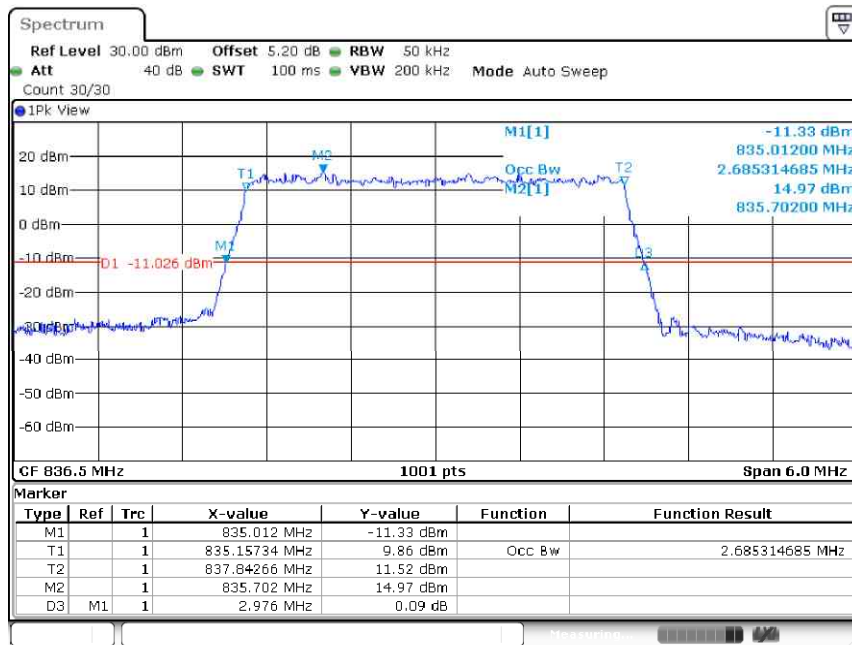
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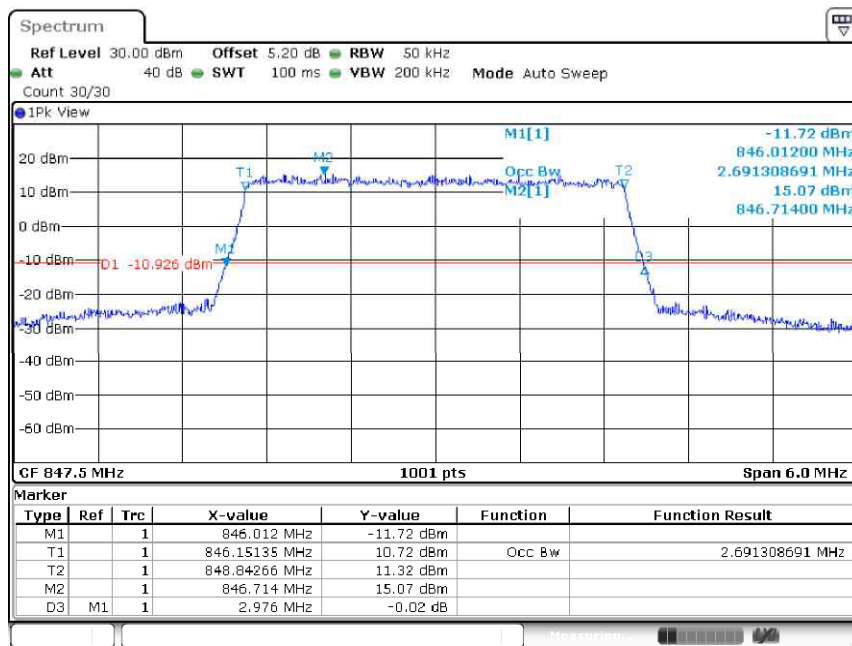


Band5-3MHz-64QAM-20525-15RB#0-2.685



Date: 15.AUG.2020 02:04:50

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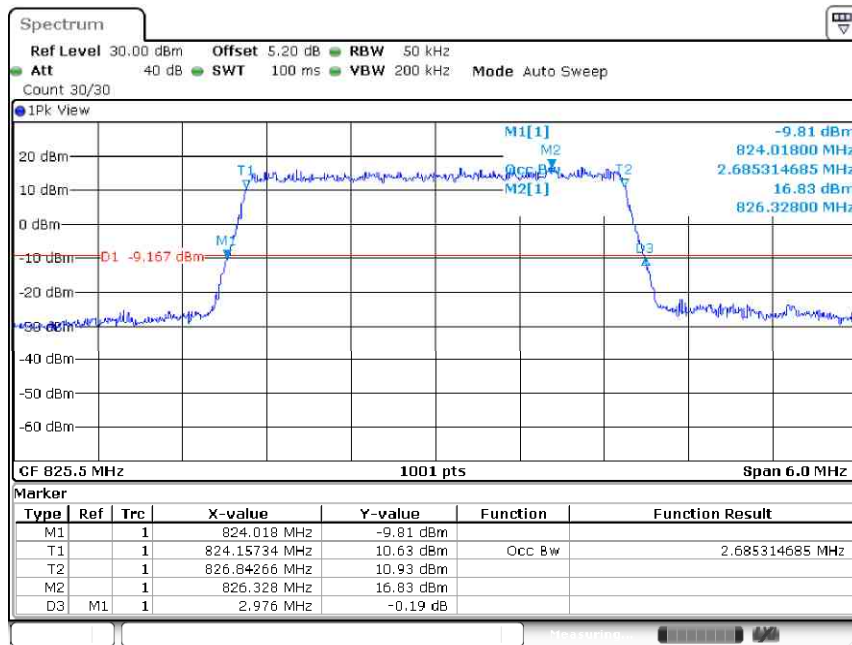


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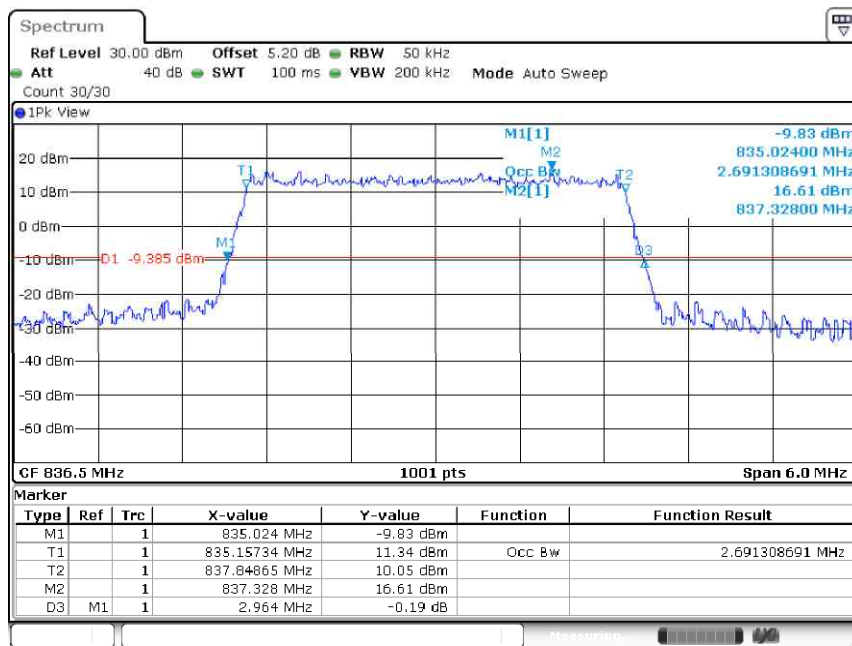
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**Band5-3MHz-16QAM-20415-15RB#0-2.685**



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**Band5-3MHz-16QAM-20525-15RB#0-2.691**



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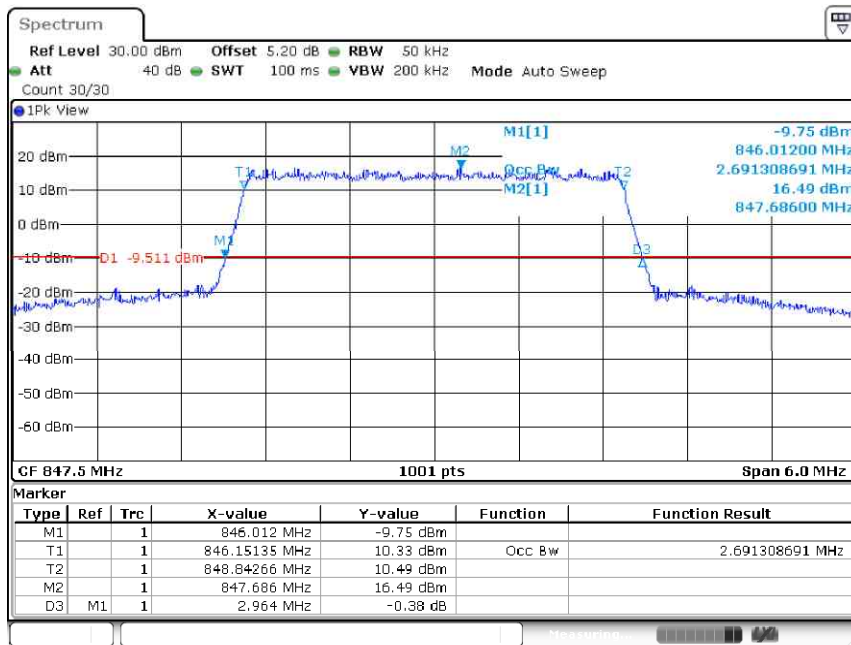


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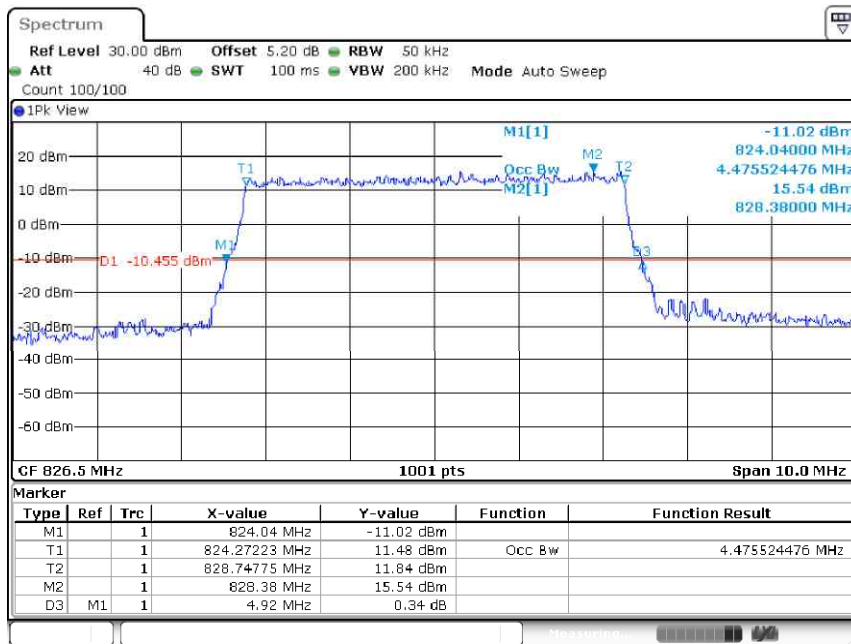


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Date: 14.AUG.2020 23:43:57

Band5-5MHz-QPSK-20425-25RB#0-4.476



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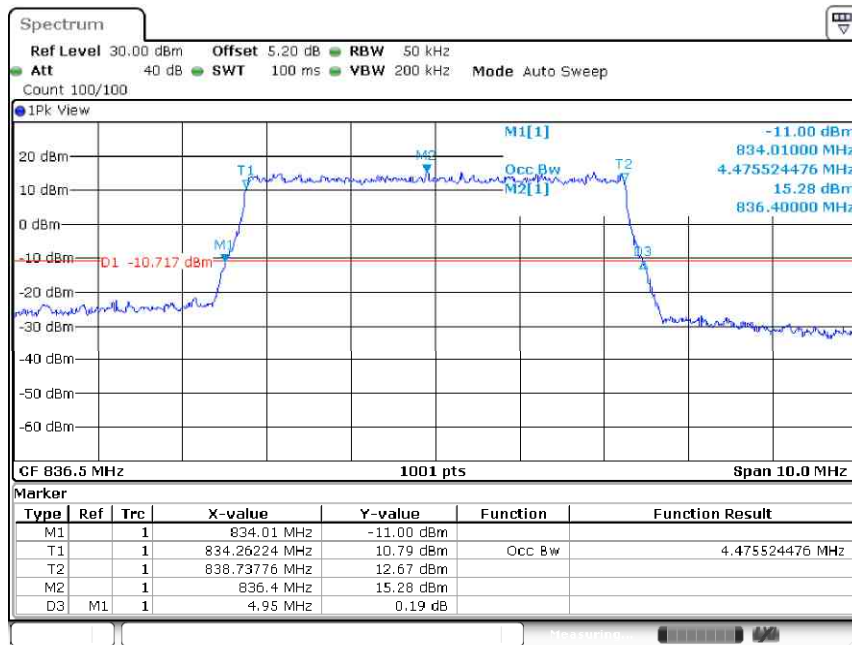


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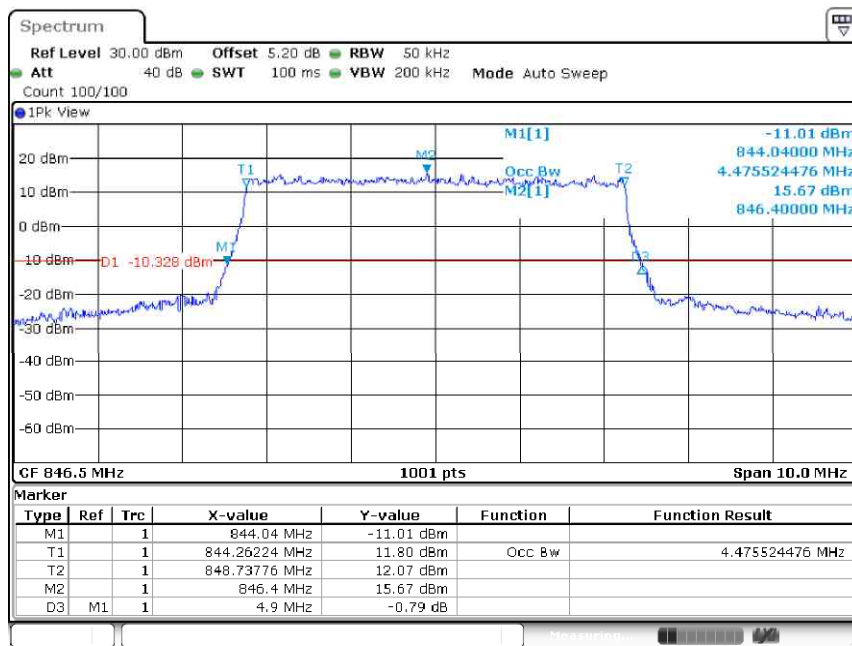


Band5-5MHz-QPSK-20525-25RB#0-4.476



Date: 14.AUG.2020 23:45:03

Band5-5MHz-QPSK-20625-25RB#0-4.476



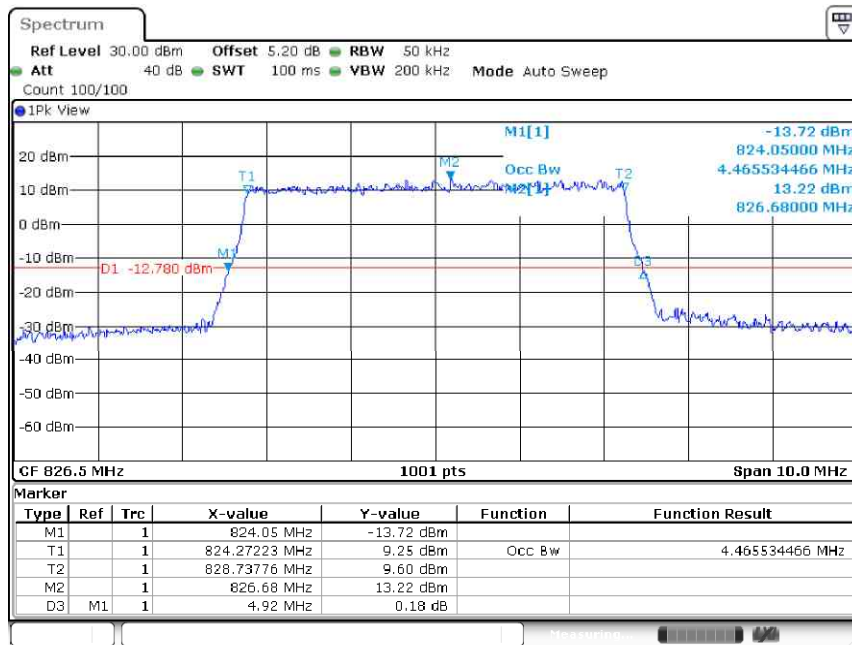
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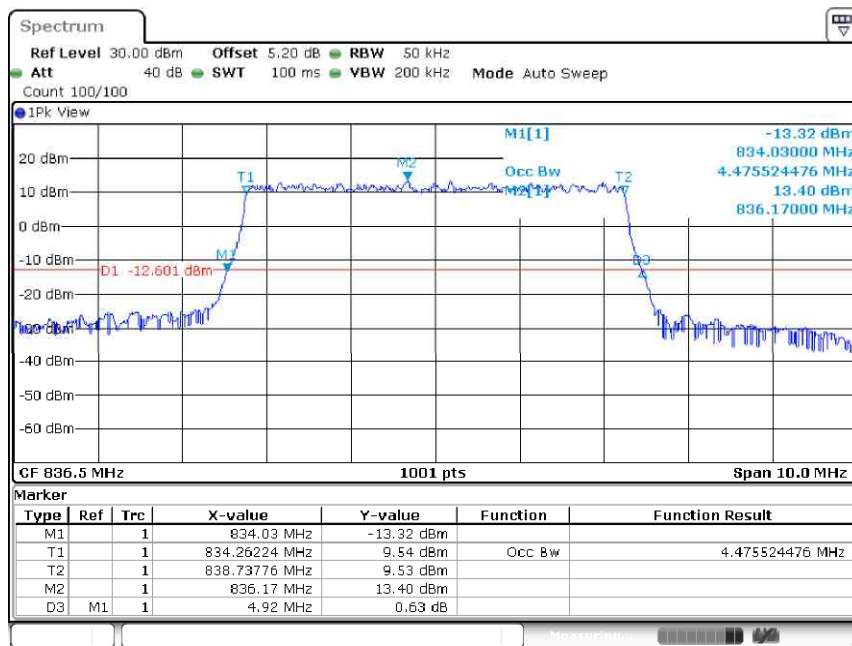


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Date: 15.AUG.2020 02:05:29

Band5-5MHz-64QAM-20525-25RB#0-4.476



Date: 15.AUG.2020 02:05:50

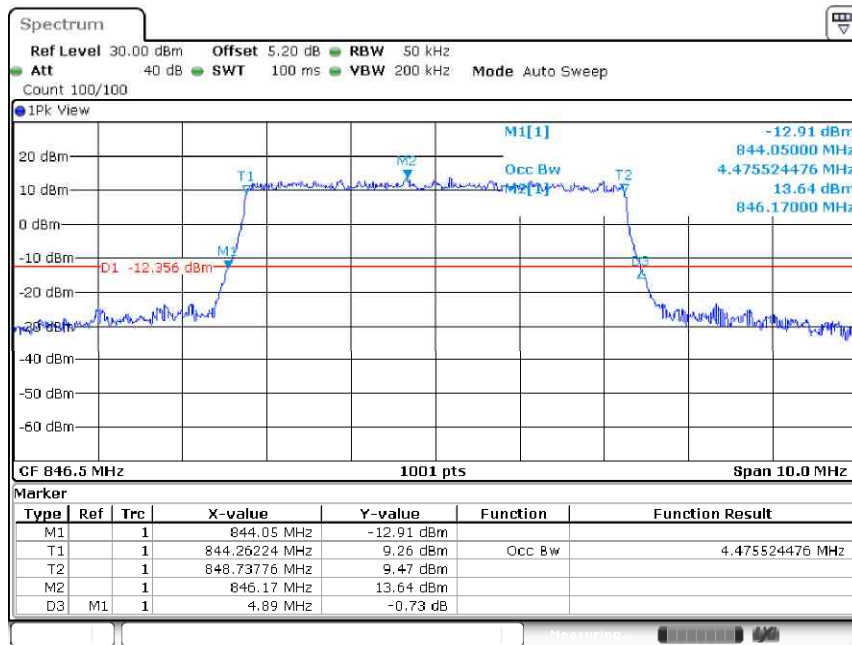


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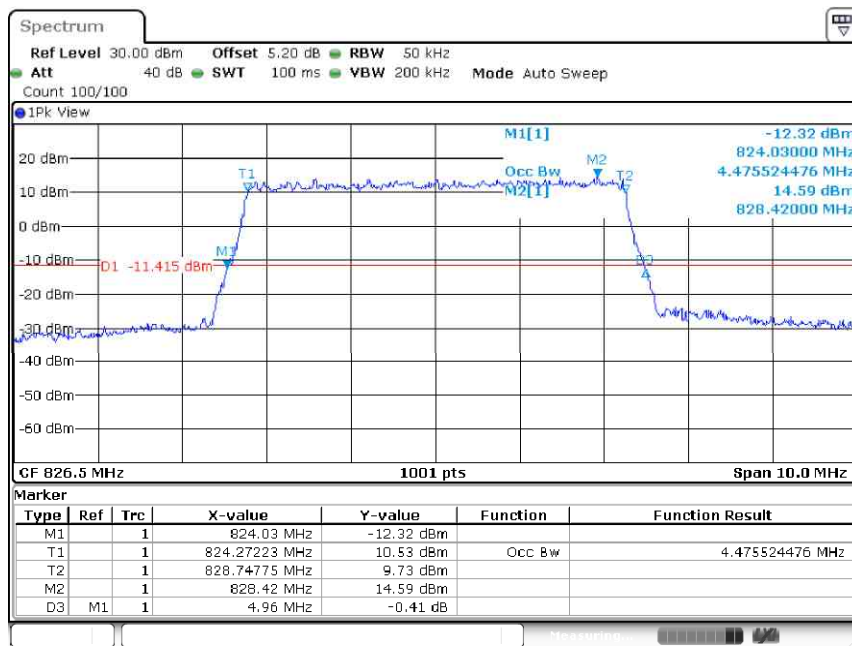


Band5-5MHz-64QAM-20625-25RB#0-4.476



Date: 16.AUG 2020 02:08:10

Band5-5MHz-16QAM-20425-25RB#0-4.476



Date: 14.AUG 2020 23:44:43

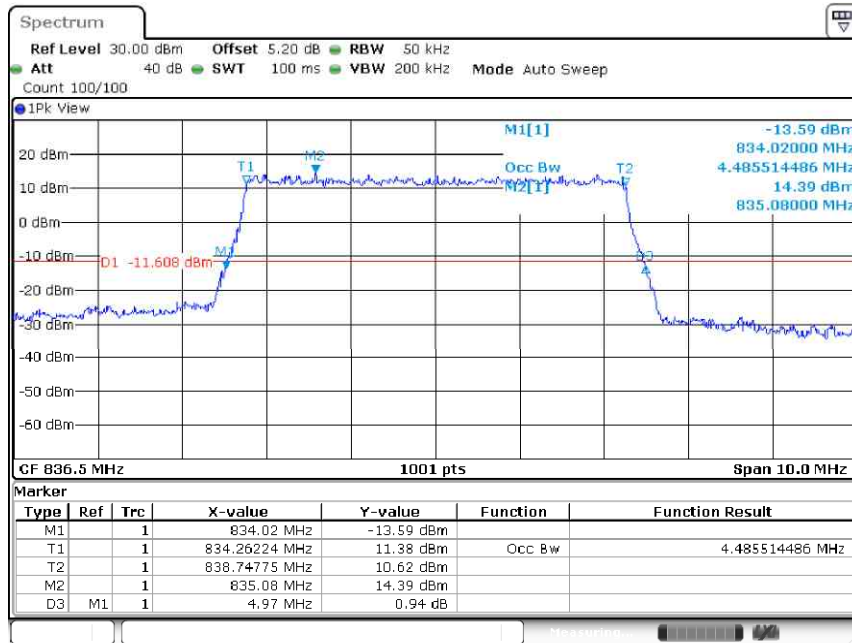


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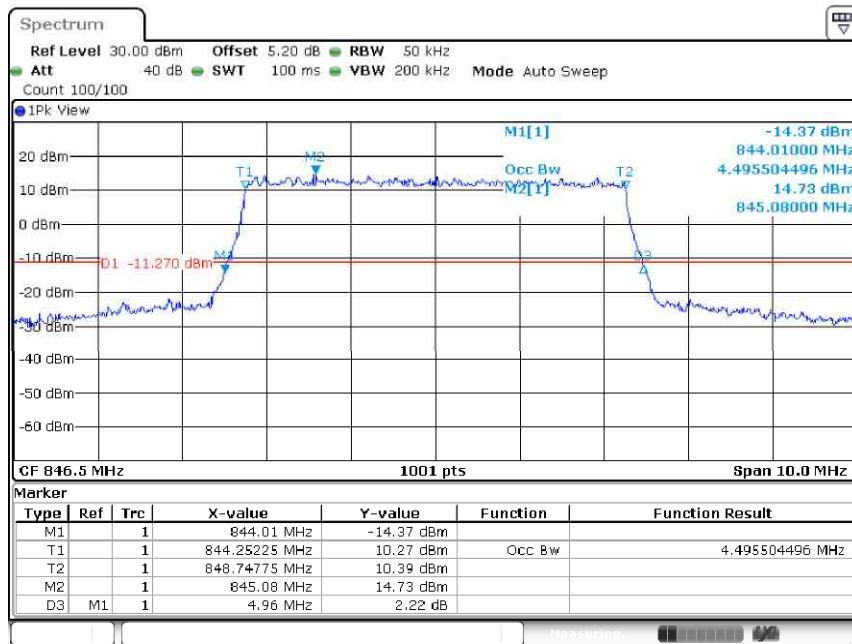


Band5-5MHz-16QAM-20525-25RB#0-4.486



Date: 14.AUG.2020 23:45:23

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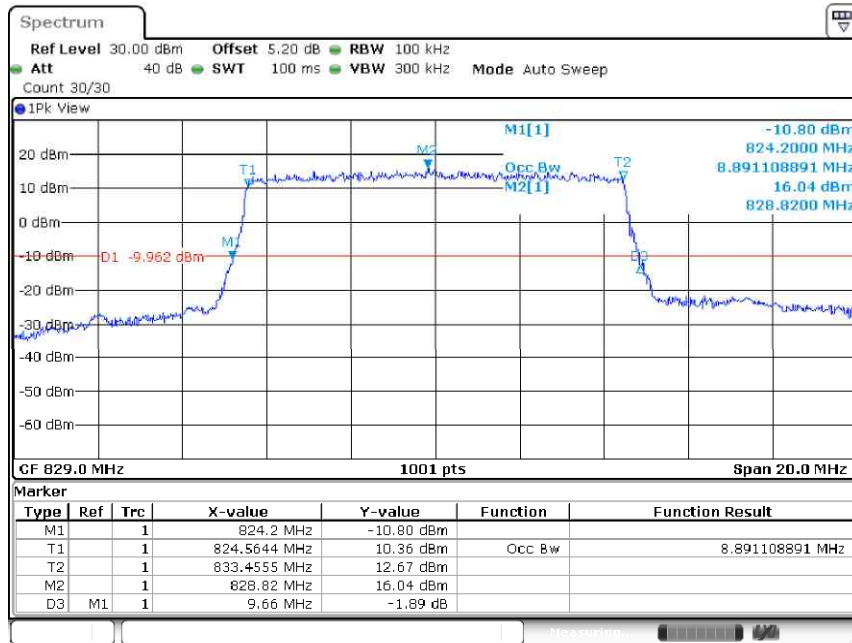
Date: 14.AUG.2020 23:46:02



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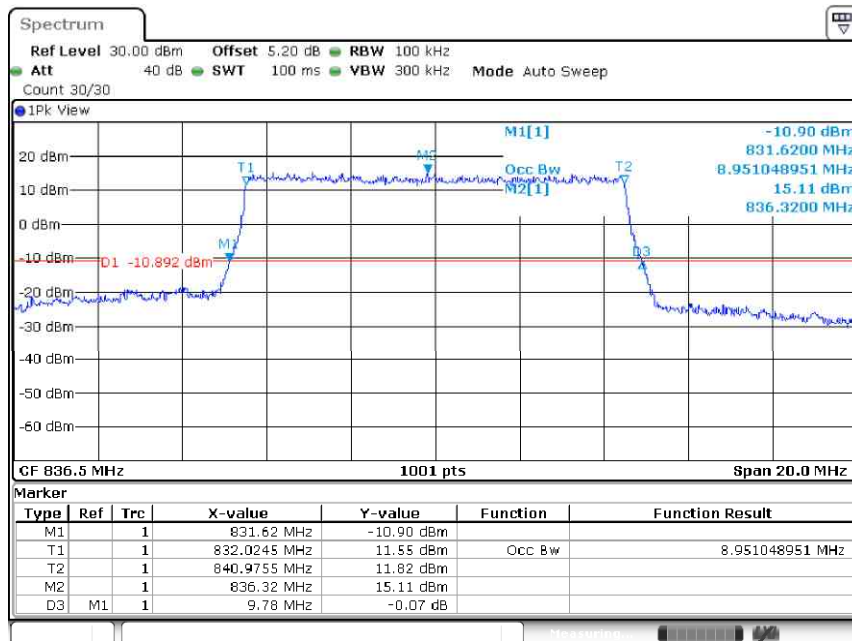


Band5-10MHz-QPSK-20450-50RB#0-8.891



Date: 14.AUG.2020 23:48:21

Band5-10MHz-QPSK-20525-50RB#0-8.951

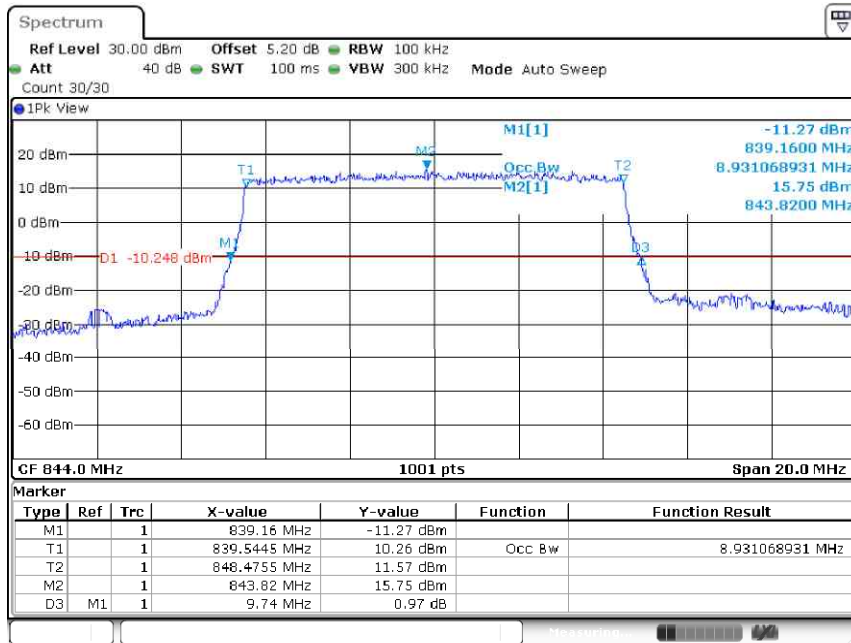


Date: 14.AUG.2020 23:48:47



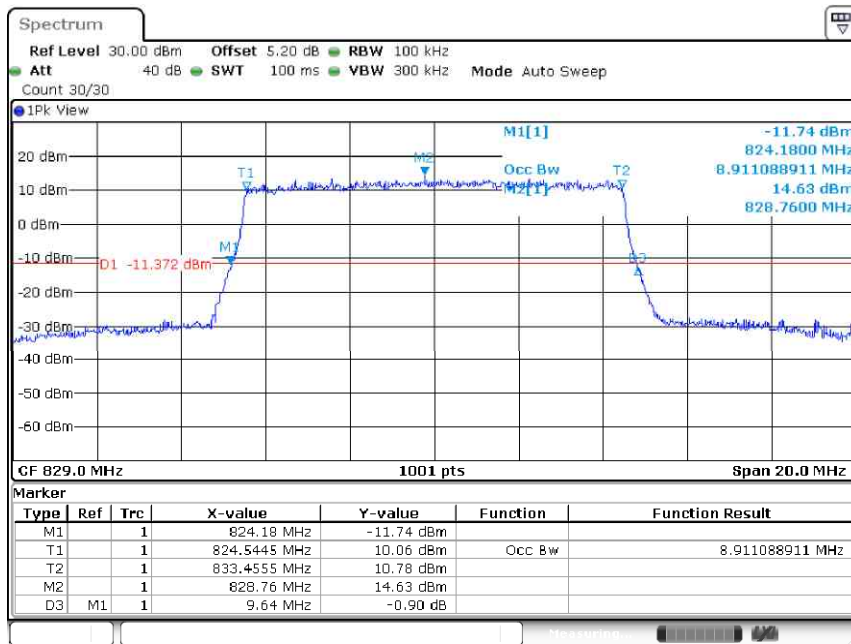


**Band5-10MHz-QPSK-20600-50RB#0-8.931**



Date: 14.AUG.2020 23:47:13

**Band5-10MHz-64QAM-20450-50RB#0-8.911**



Date: 15.AUG.2020 02:06:29

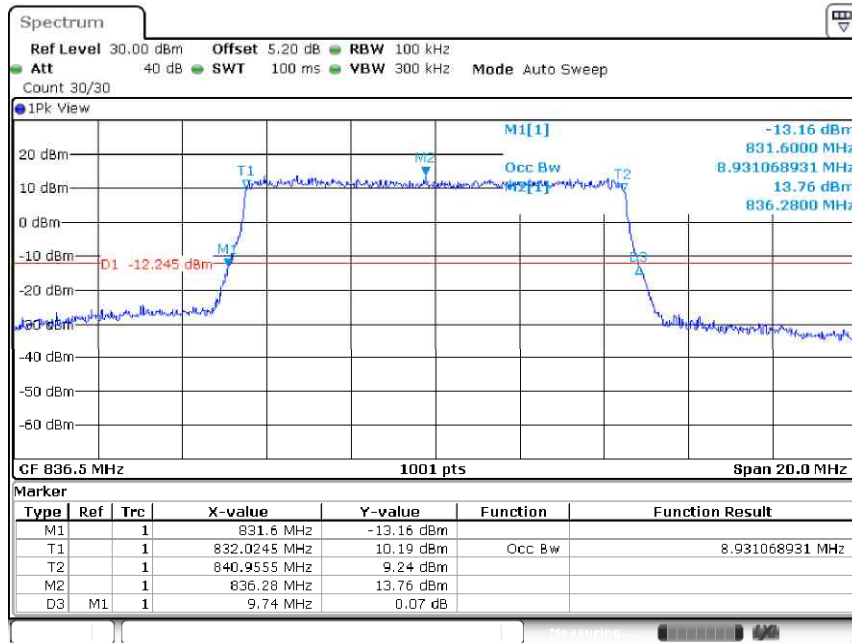


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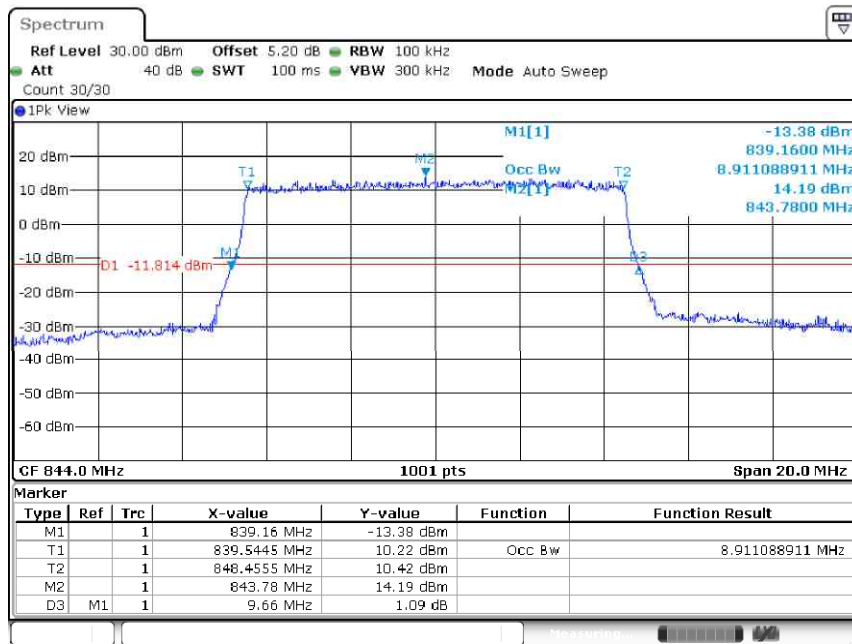


Band5-10MHz-64QAM-20525-50RB#0-8.931



Date: 15.AUG.2020 02:08:43

Band5-10MHz-64QAM-20600-50RB#0-8.911



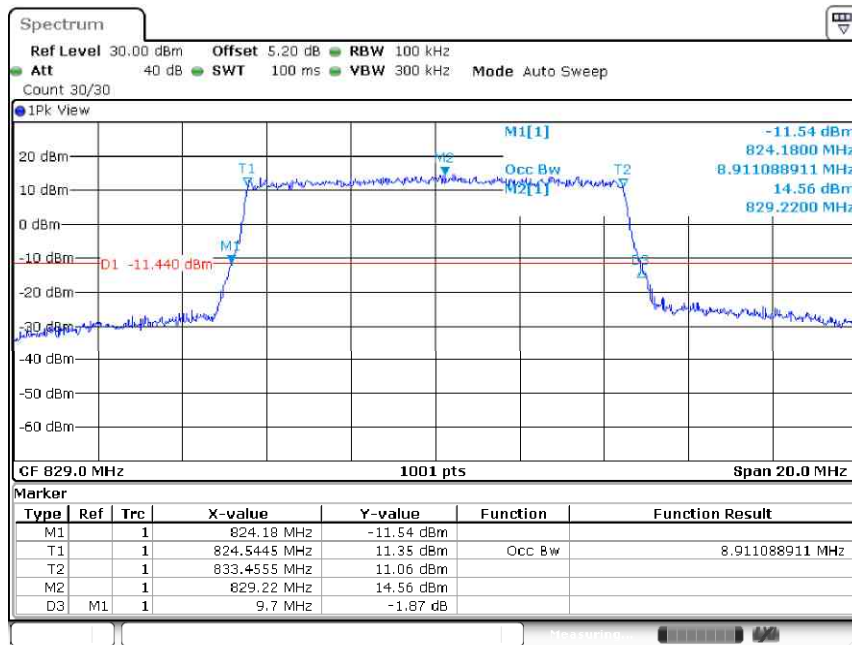
Date: 15.AUG.2020 02:06:56



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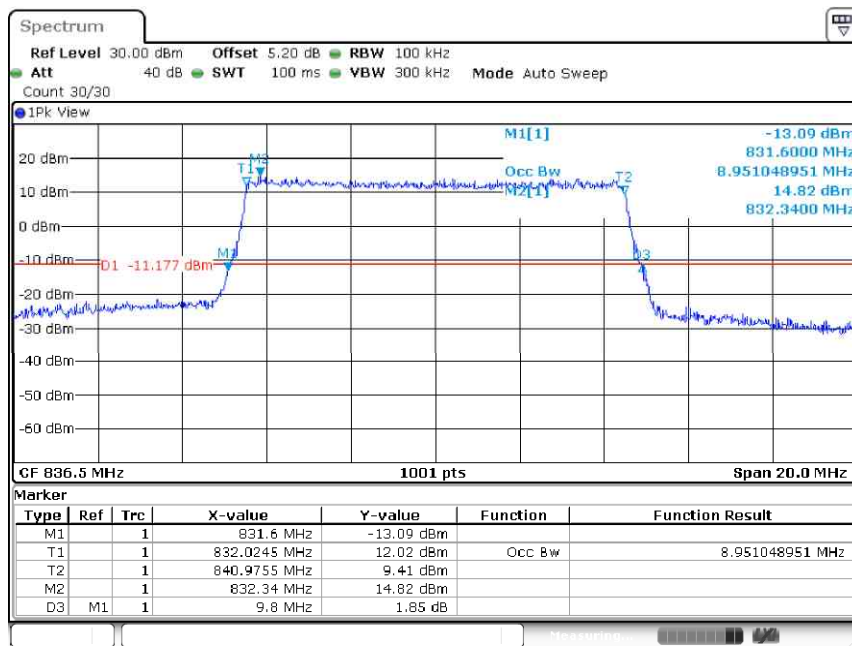


Band5-10MHz-16QAM-20450-50RB#0-8.911



Date: 14.AUG.2020 23:48:34

Band5-10MHz-16QAM-20525-50RB#0-8.951



Date: 14.AUG.2020 23:47:00

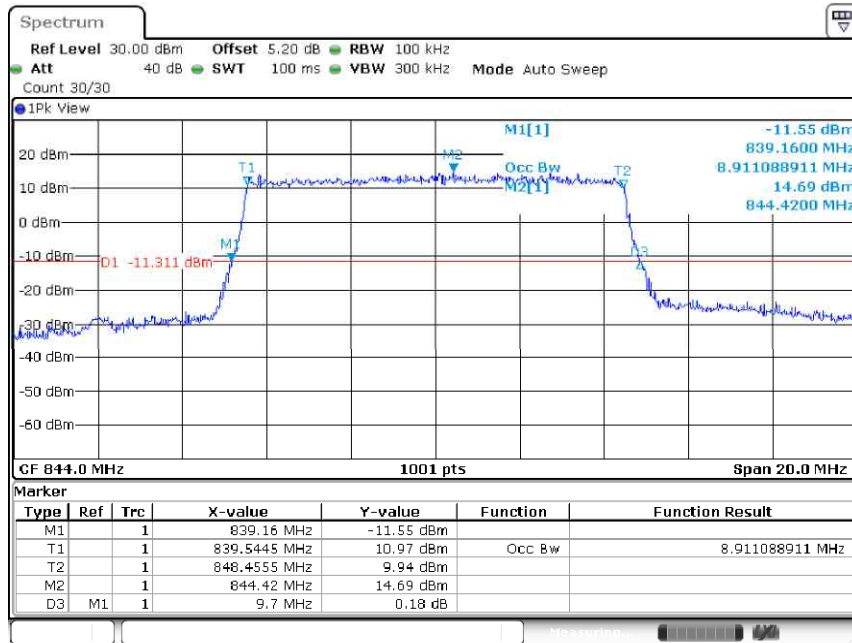


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**Band5-10MHz-16QAM-20600-50RB#0-8.911**



Date: 14.AUG.2020 23:47:26

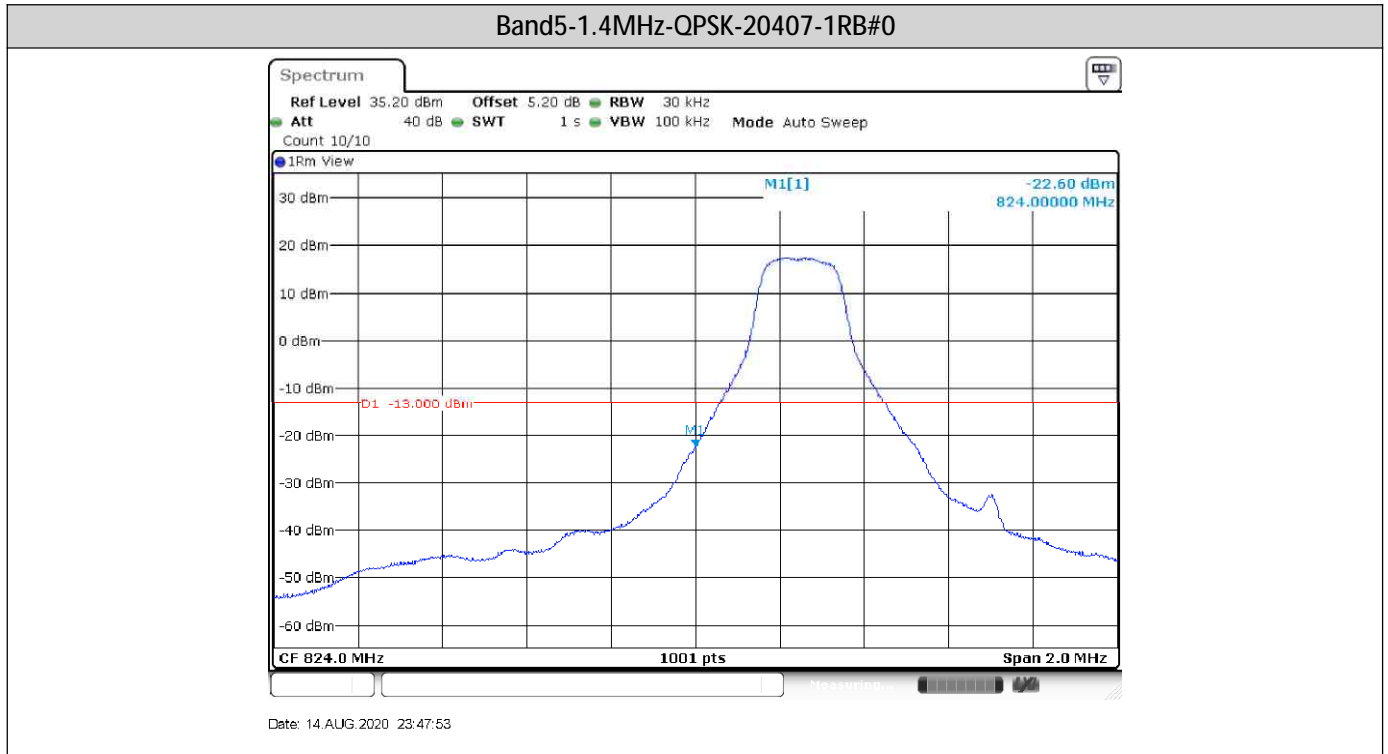


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## 5. Band Edge Compliance

### 5.1. Test Plots

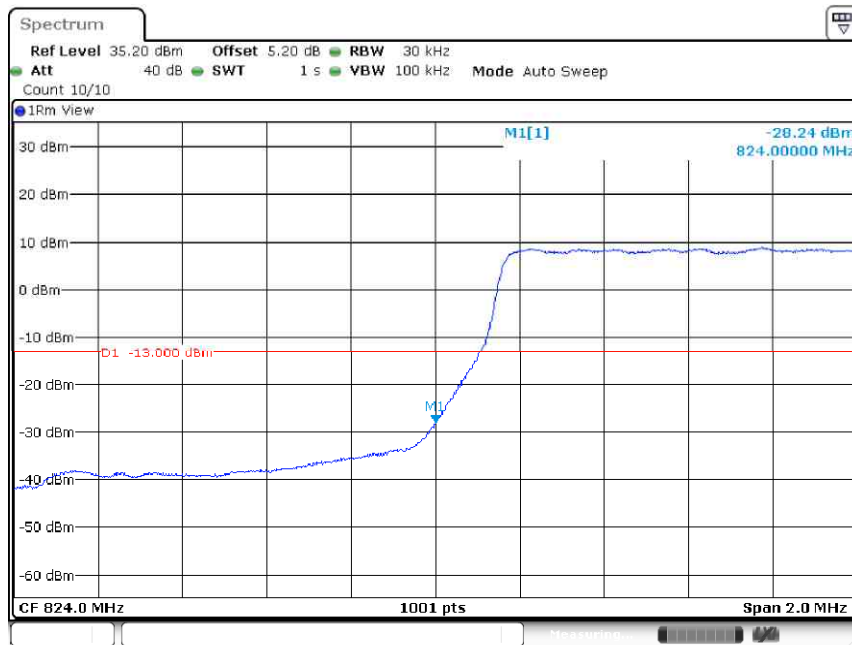


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**Band5-1.4MHz-QPSK-20407-6RB#0**



Date: 14.AUG.2020 23:48:35

**Band5-1.4MHz-QPSK-20643-1RB#5**



Date: 14.AUG.2020 23:49:22



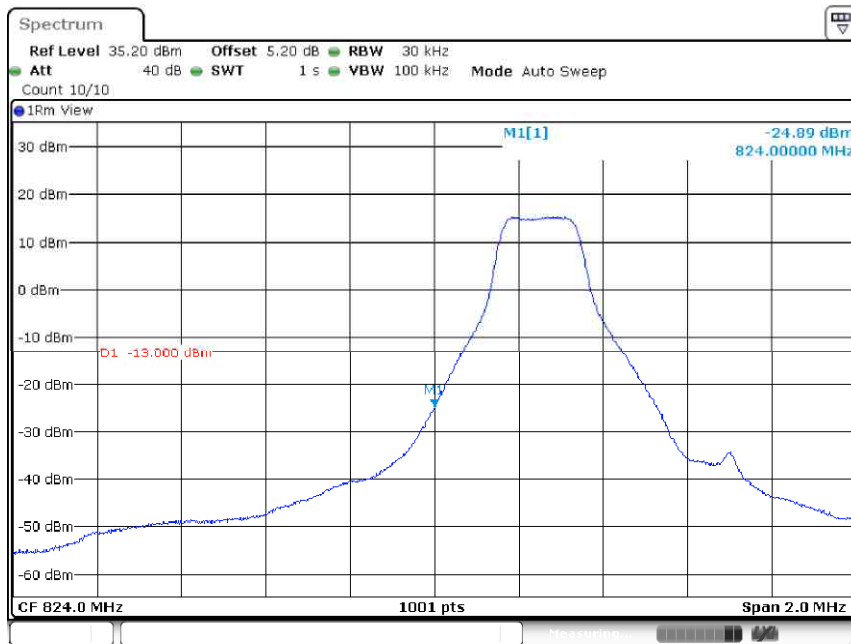
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Band5-1.4MHz-QPSK-20643-6RB#0



Date: 14.AUG.2020 23:50:03

Band5-1.4MHz-64QAM-20407-1RB#0



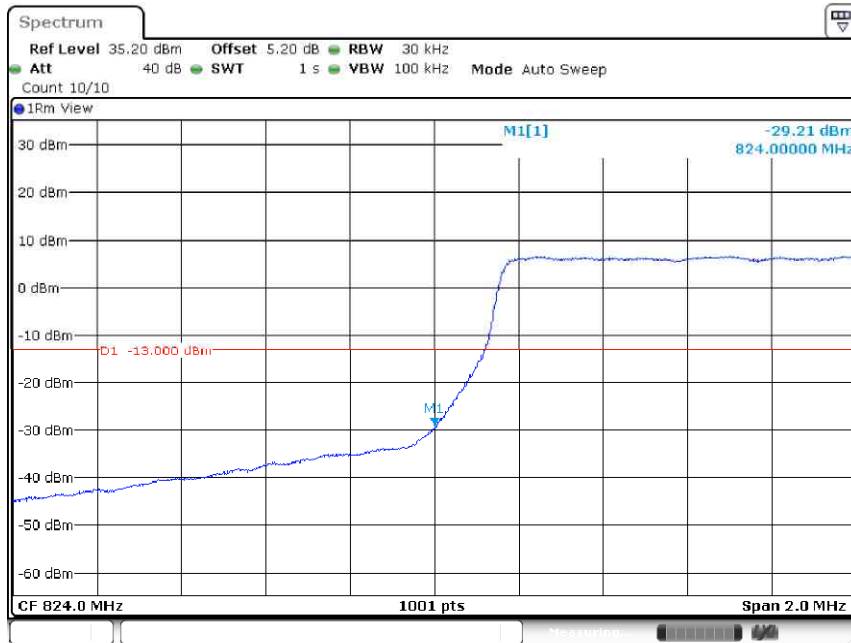
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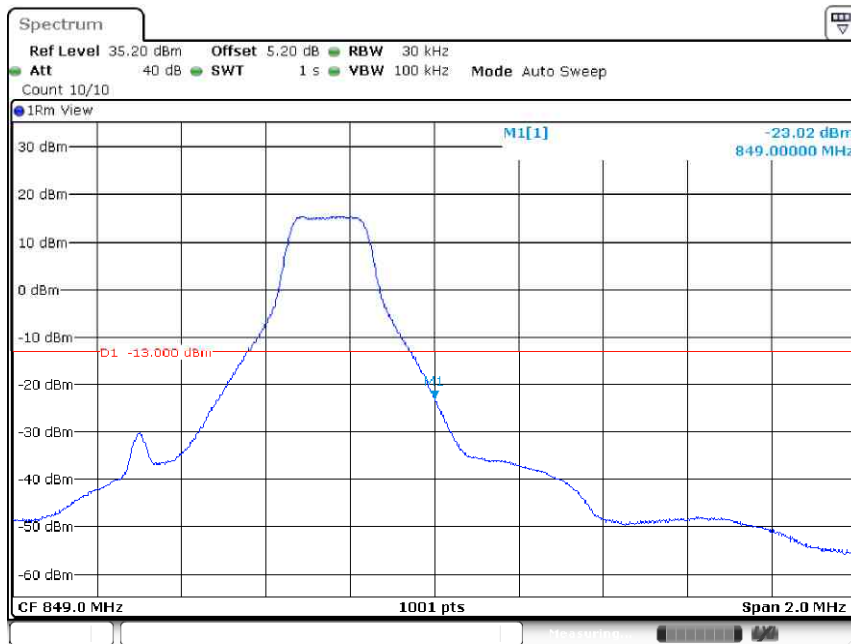


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Date: 15.AUG.2020 02:07:44

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Date: 15.AUG.2020 02:08:11



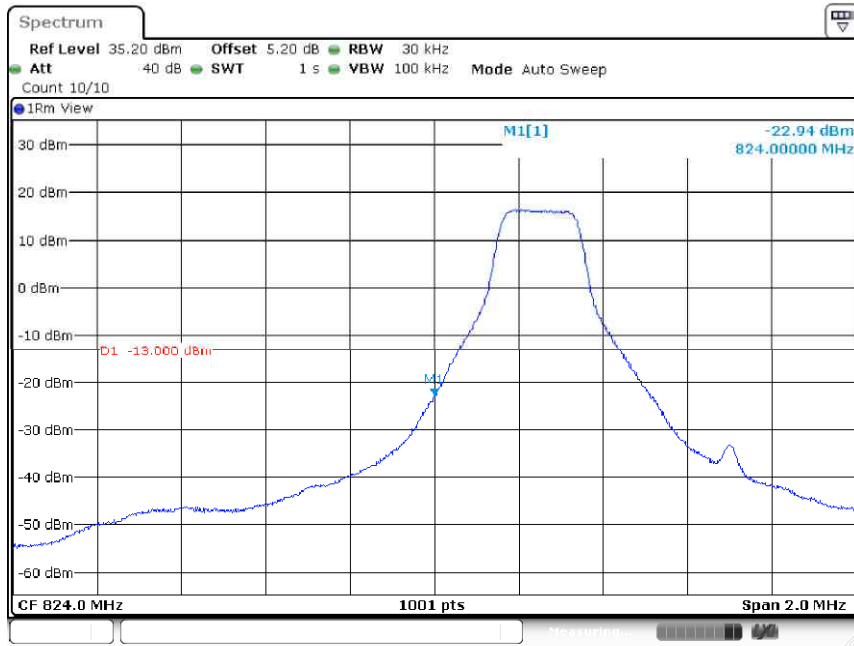
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### Band5-1.4MHz-64QAM-20643-6RB#0



Date: 16.AUG.2020 02:08:31

### Band5-1.4MHz-16QAM-20407-1RB#0



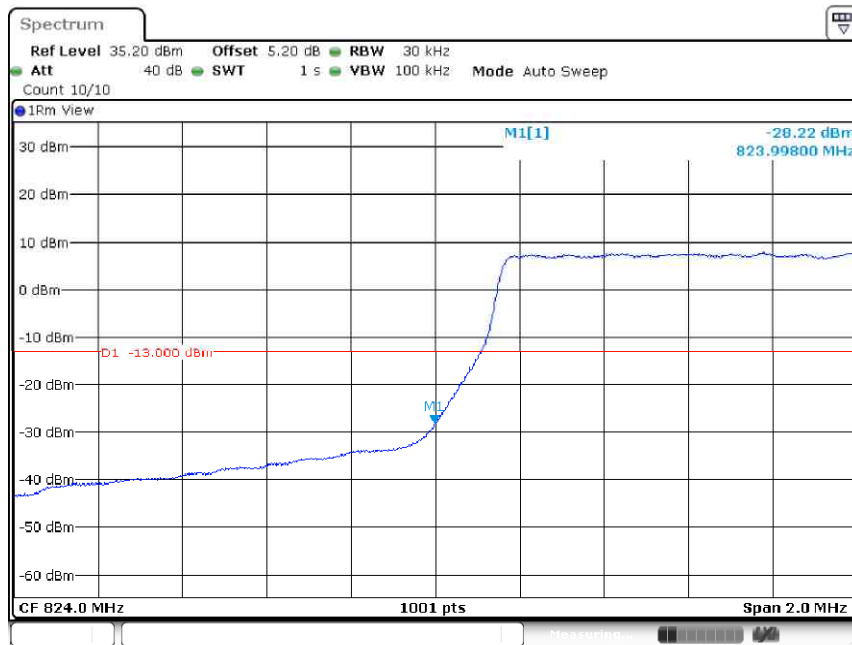
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**Band5-1.4MHz-16QAM-20407-6RB#0**



Date: 14.AUG.2020 23:48:56

**Band5-1.4MHz-16QAM-20643-1RB#5**



Date: 14.AUG.2020 23:49:42



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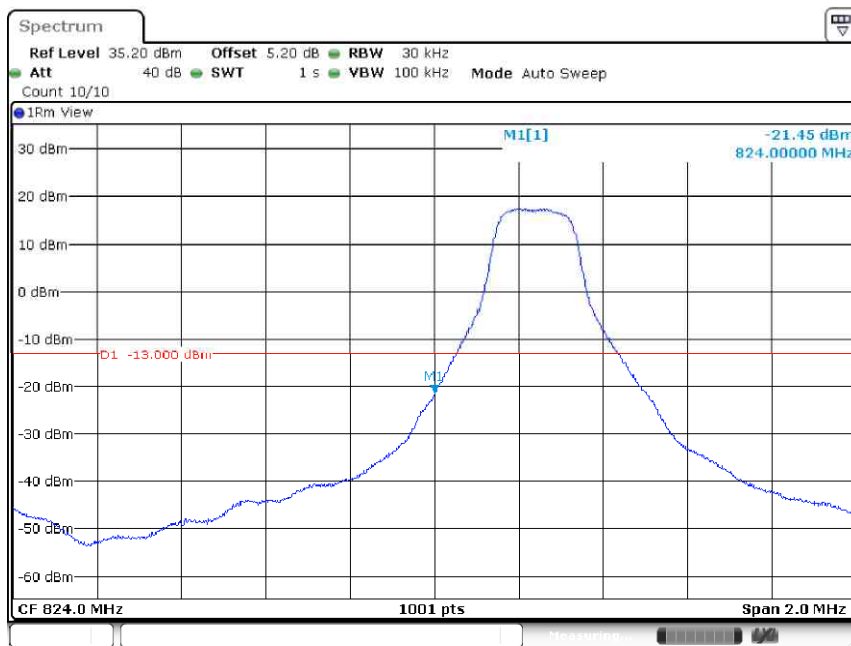


Band5-1.4MHz-16QAM-20643-6RB#0



Date: 14.AUG.2020 23:50:24

Band5-3MHz-QPSK-20415-1RB#0



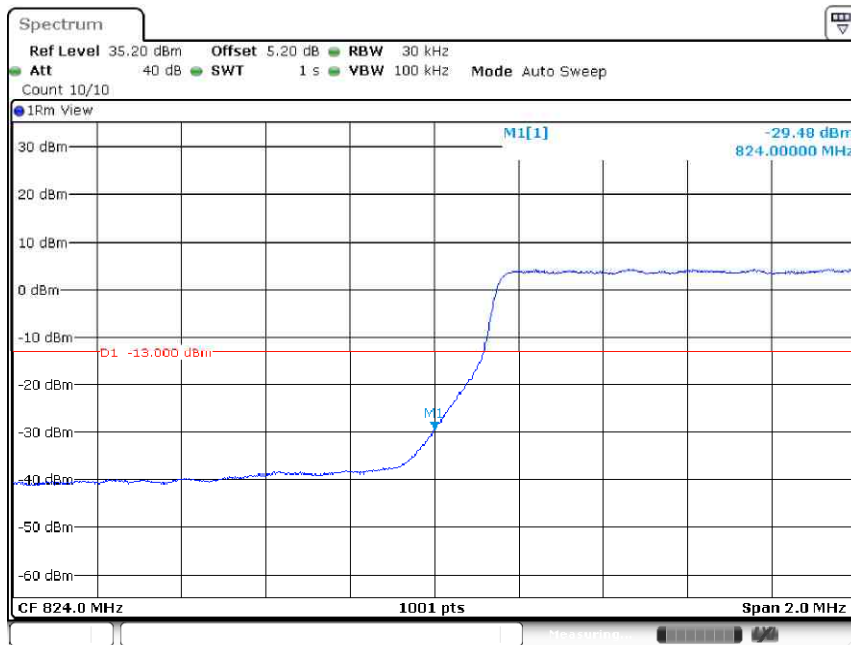
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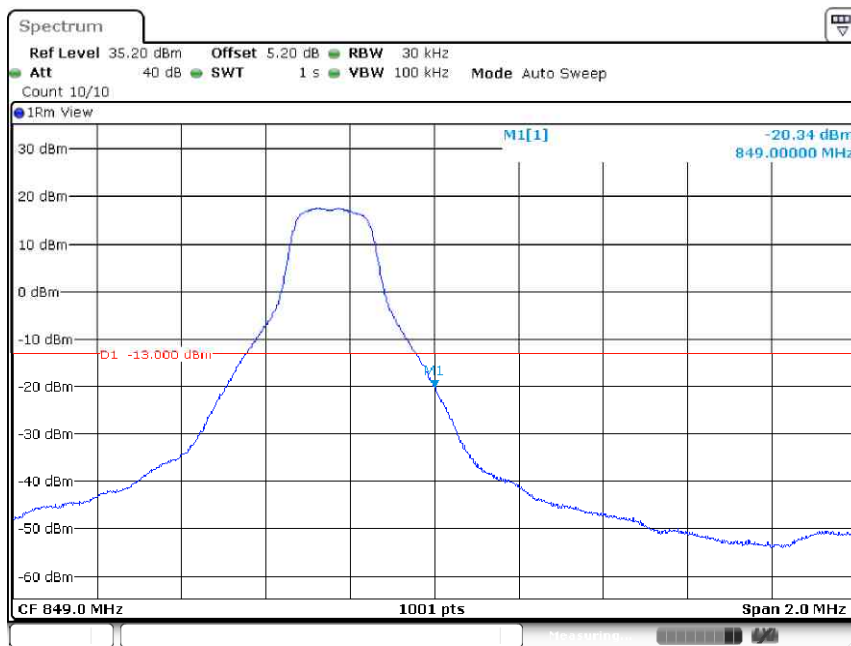


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Date: 14.AUG.2020 23:51:32

Band5-3MHz-QPSK-20635-1RB#14



Date: 14.AUG.2020 23:52:19



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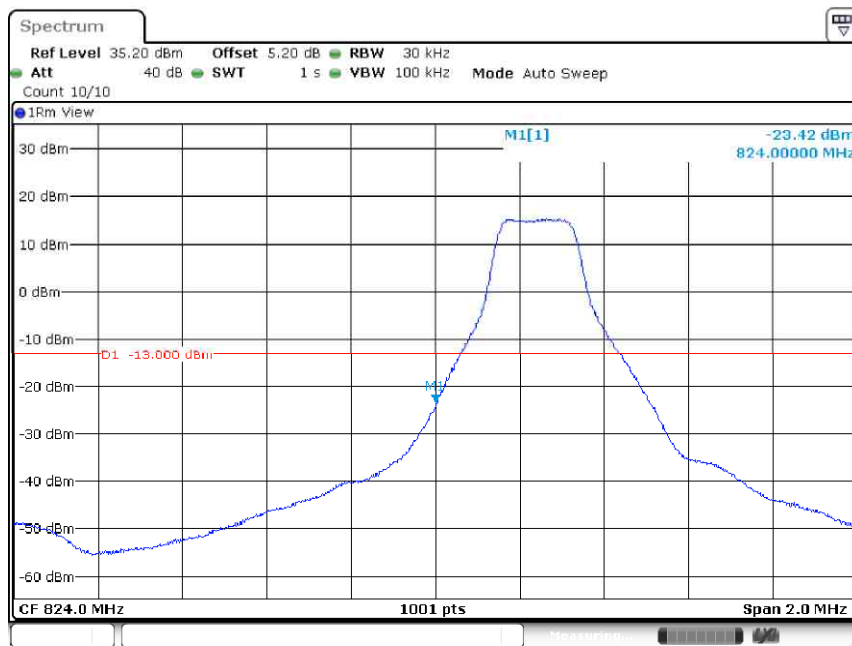


Band5-3MHz-QPSK-20635-15RB#0



Date: 14.AUG.2020 23:53:00

Band5-3MHz-64QAM-20415-1RB#0



Date: 15.AUG.2020 02:09:00

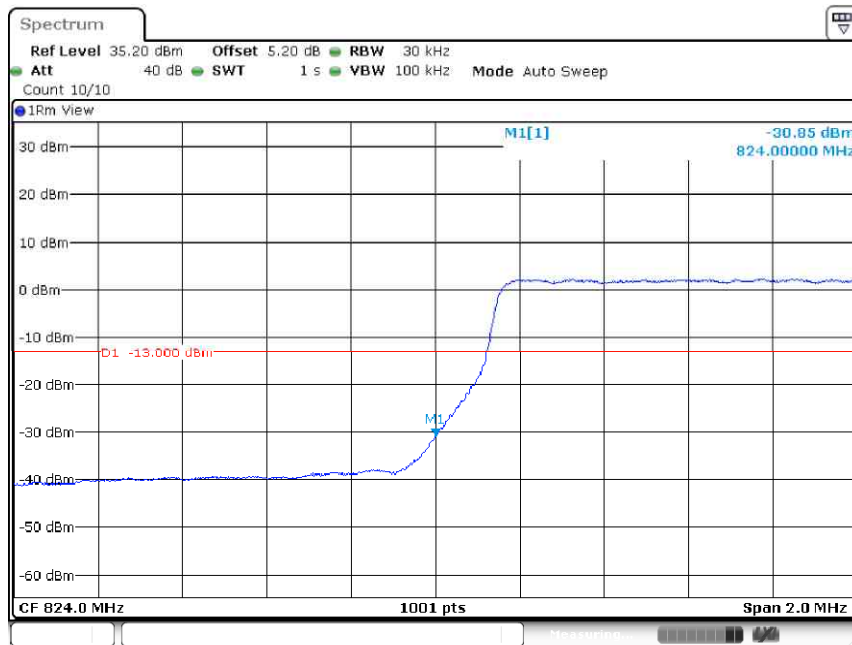


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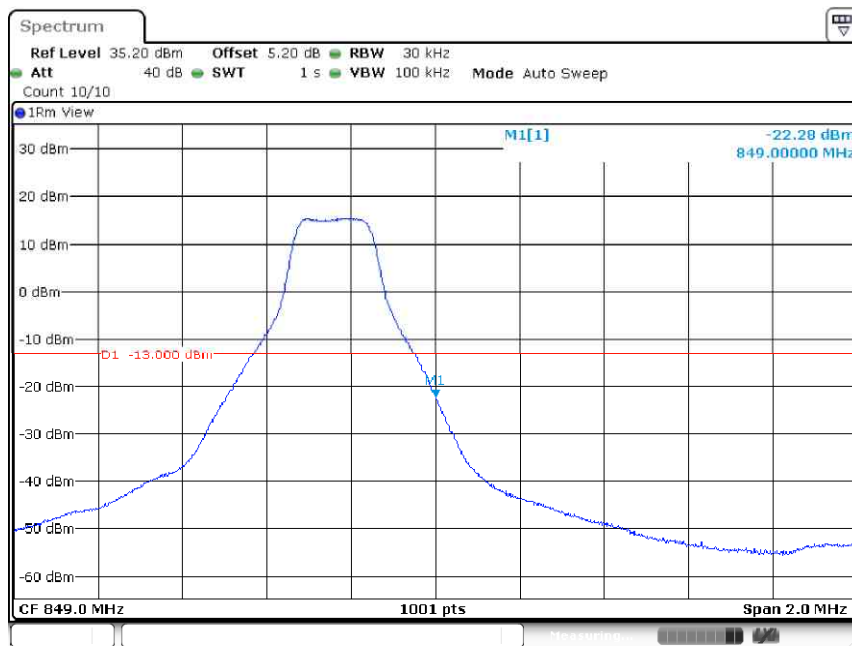


Band5-3MHz-64QAM-20415-15RB#0



Date: 15.AUG.2020 02:09:20

Band5-3MHz-64QAM-20635-1RB#14



Date: 15.AUG.2020 02:09:47



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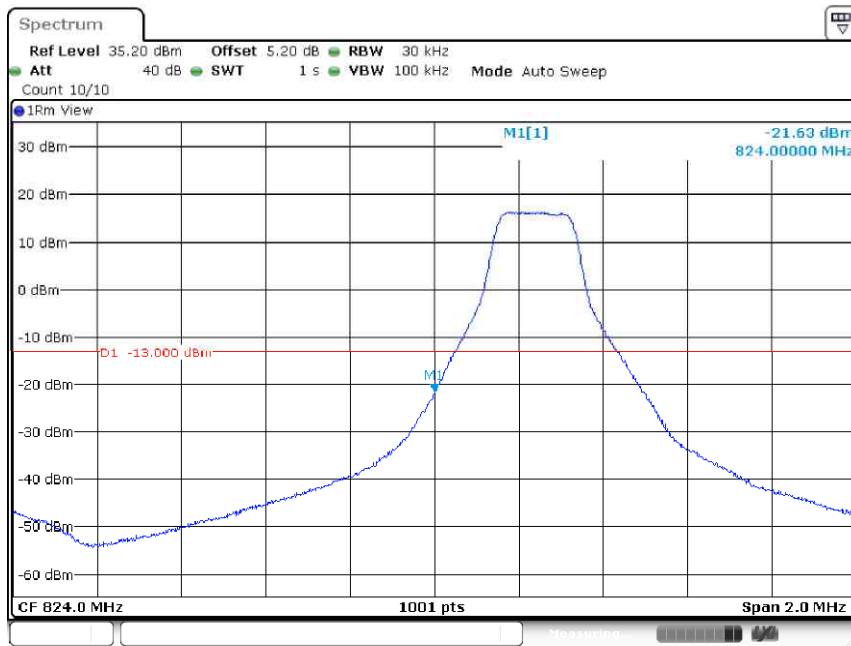


**Band5-3MHz-64QAM-20635-15RB#0**



Date: 16.AUG.2020 02:10:07

**Band5-3MHz-16QAM-20415-1RB#0**

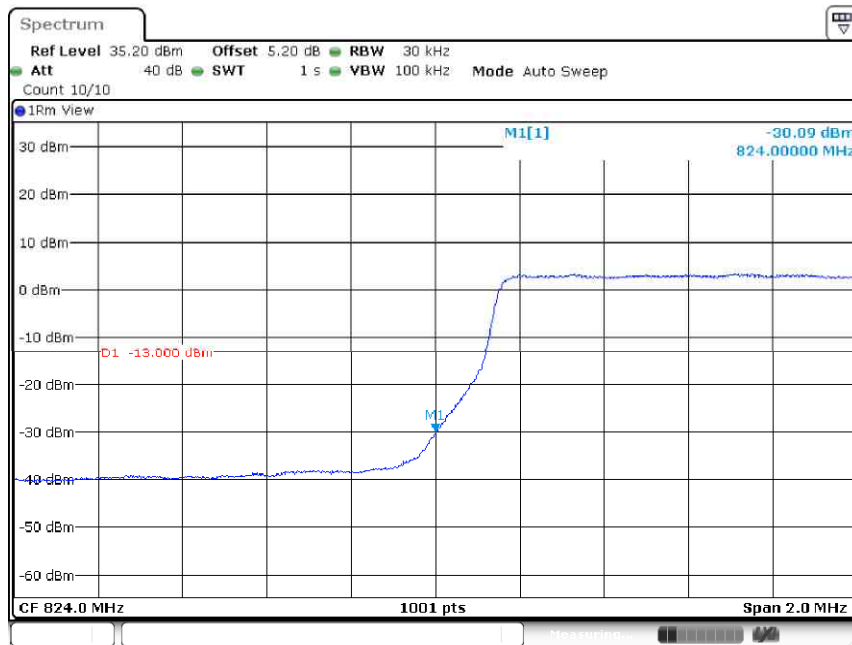


Date: 14.AUG.2020 23:51:12



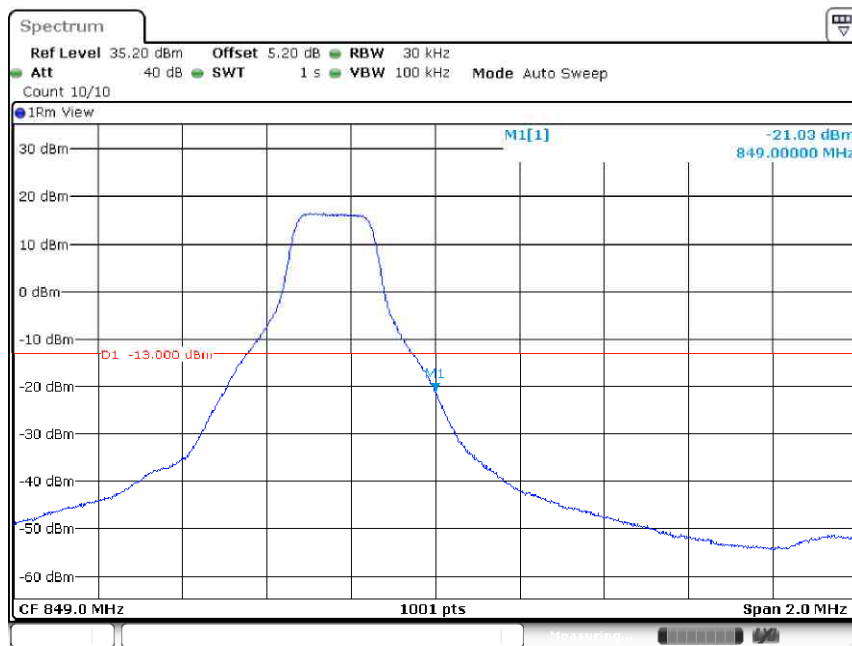
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**Band5-3MHz-16QAM-20415-15RB#0**



Date: 14.AUG.2020 23:51:53

**Band5-3MHz-16QAM-20635-1RB#14**



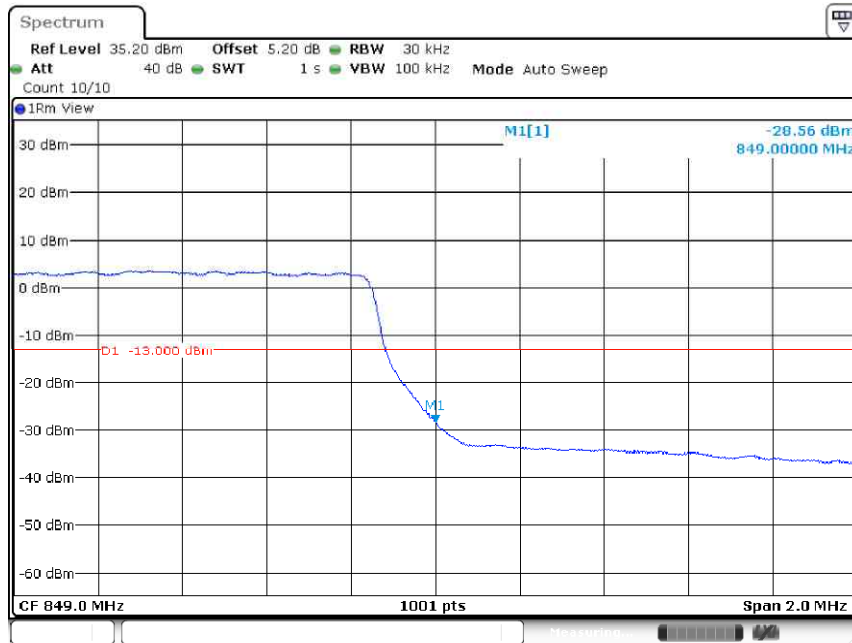
Date: 14.AUG.2020 23:52:39



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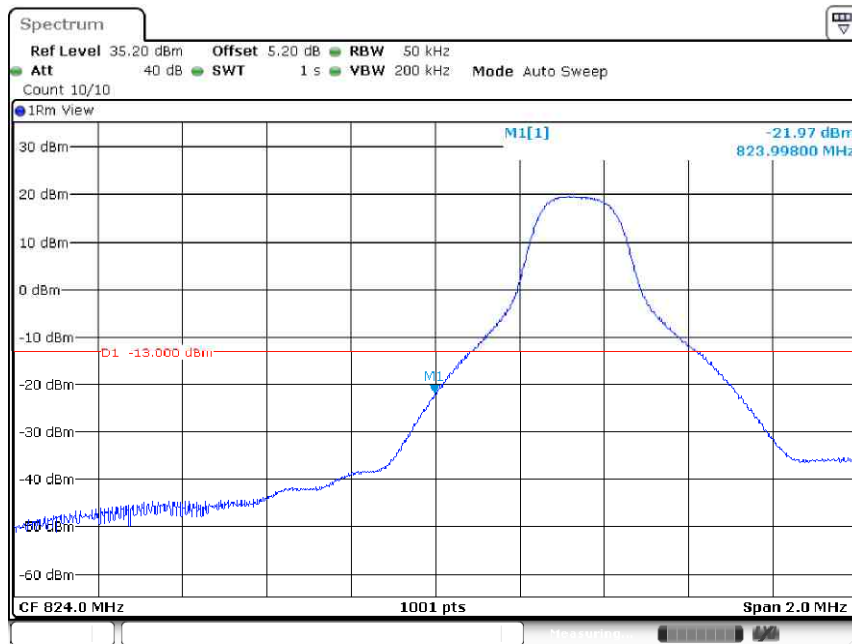


**Band5-3MHz-16QAM-20635-15RB#0**



Date: 14.AUG.2020 23:53:21

**Band5-5MHz-QPSK-20425-1RB#0**



Date: 14.AUG.2020 23:53:48

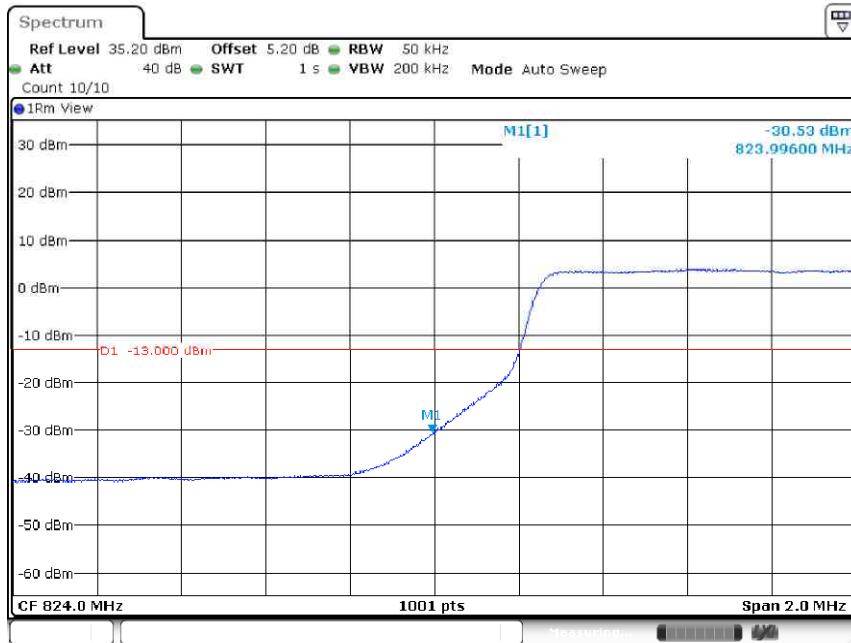


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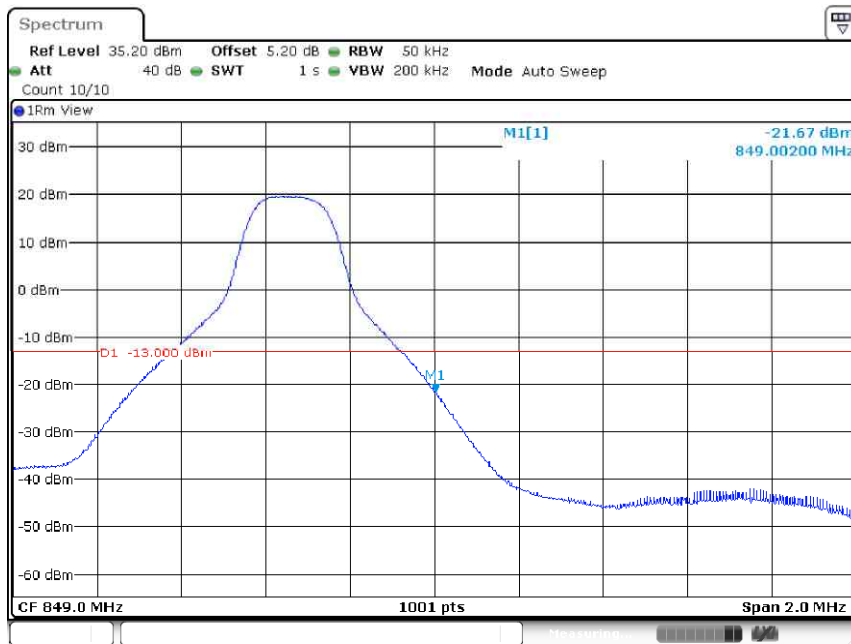


**Band5-5MHz-QPSK-20425-25RB#0**



Date: 14.AUG.2020 23:54:29

**Band5-5MHz-QPSK-20625-1RB#24**



Date: 14.AUG.2020 23:55:15



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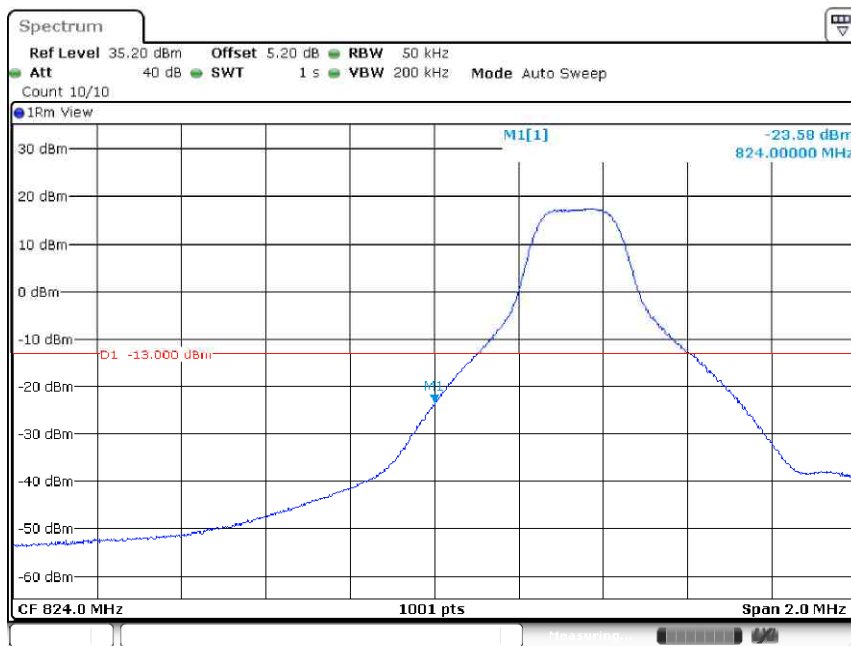


Band5-5MHz-QPSK-20625-25RB#0



Date: 14.AUG.2020 23:55:56

Band5-5MHz-64QAM-20425-1RB#0



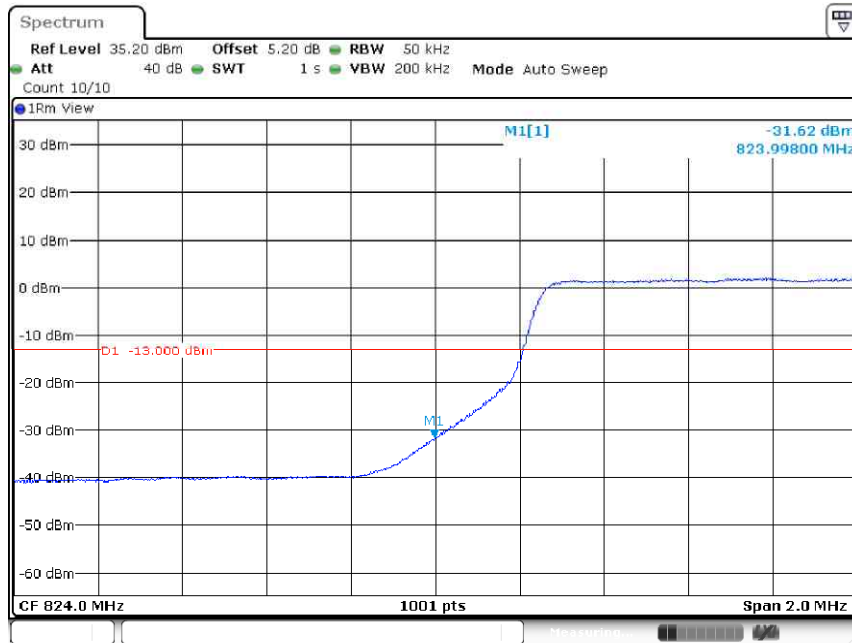
Date: 15.AUG.2020 02:10:35



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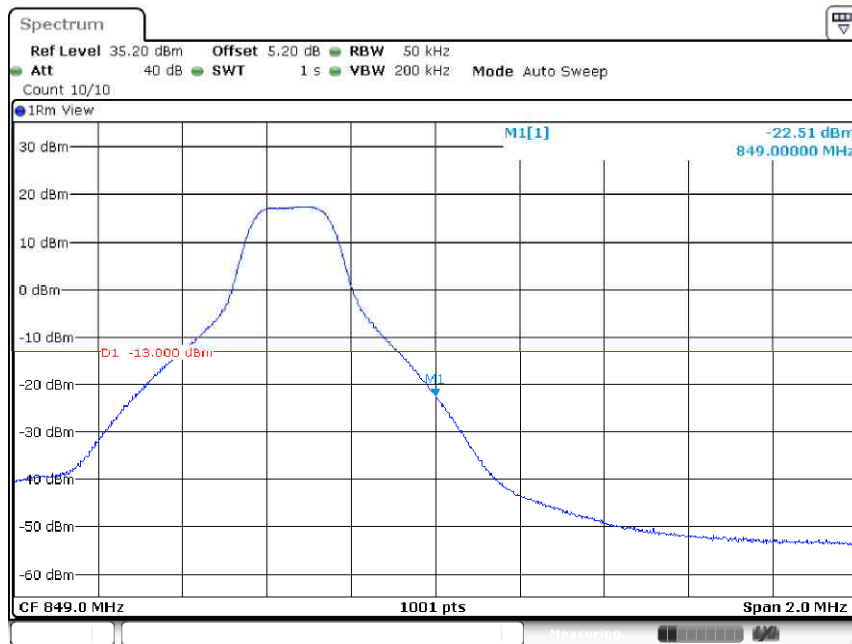


Band5-5MHz-64QAM-20425-25RB#0



Date: 15.AUG.2020 02:10:56

Band5-5MHz-64QAM-20625-1RB#24



Date: 15.AUG.2020 02:11:23



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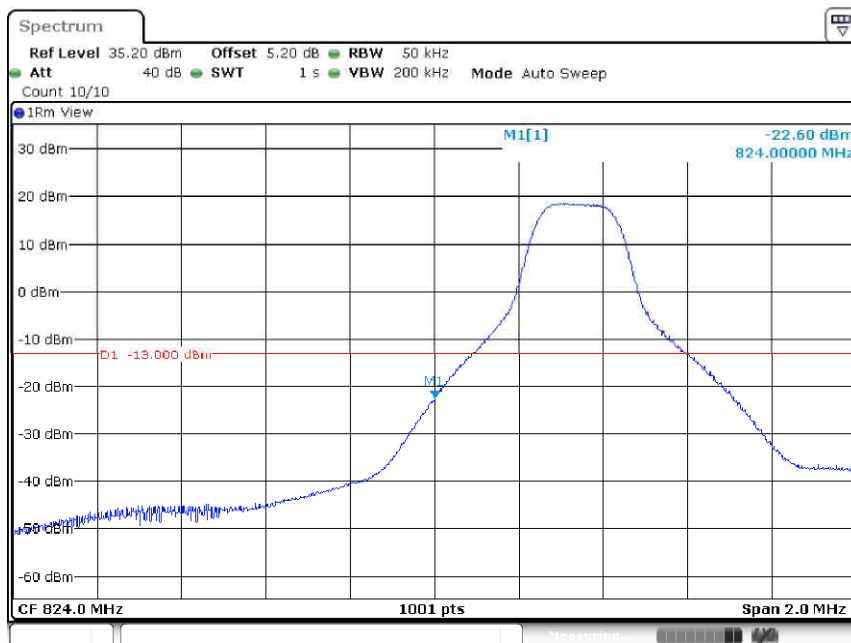


**Band5-5MHz-64QAM-20625-25RB#0**



Date: 16.AUG 2020 02:11:43

**Band5-5MHz-16QAM-20425-1RB#0**



Date: 14.AUG 2020 23:54:08



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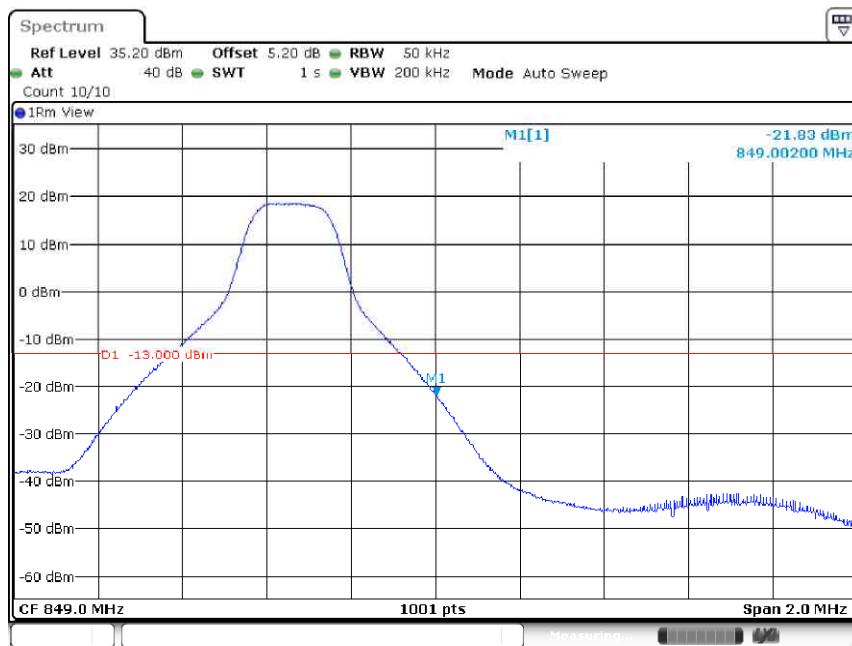


**Band5-5MHz-16QAM-20425-25RB#0**



Date: 14.AUG.2020 23:54:50

**Band5-5MHz-16QAM-20625-1RB#24**



Date: 14.AUG.2020 23:55:36



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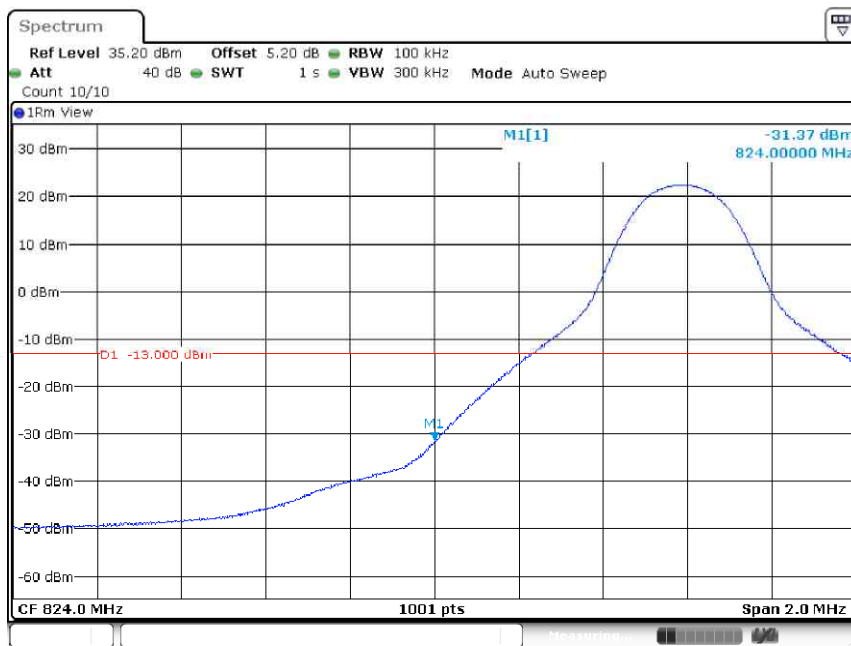


**Band5-5MHz-16QAM-20625-25RB#0**



Date: 14.AUG.2020 23:58:18

**Band5-10MHz-QPSK-20450-1RB#0**



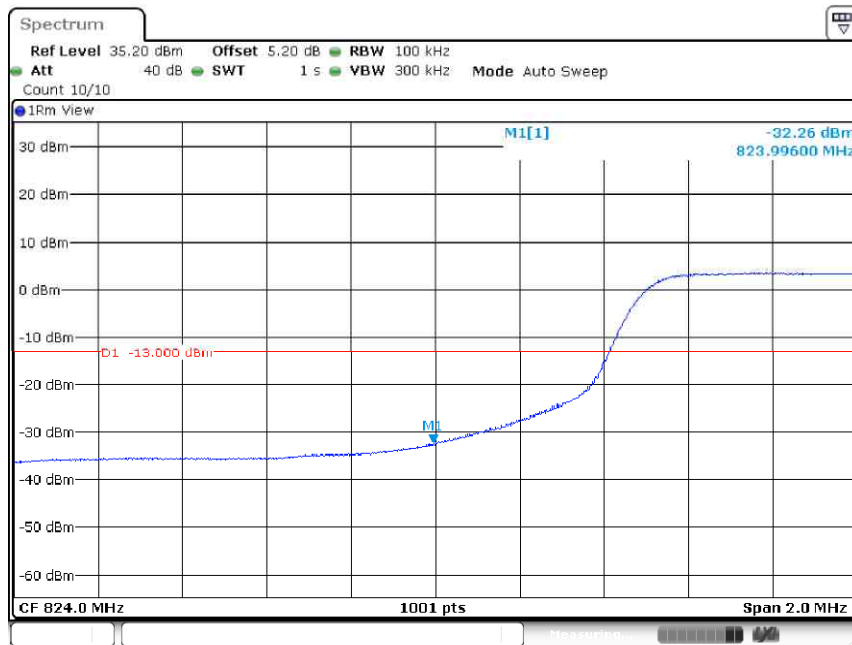
Date: 14.AUG.2020 23:58:44



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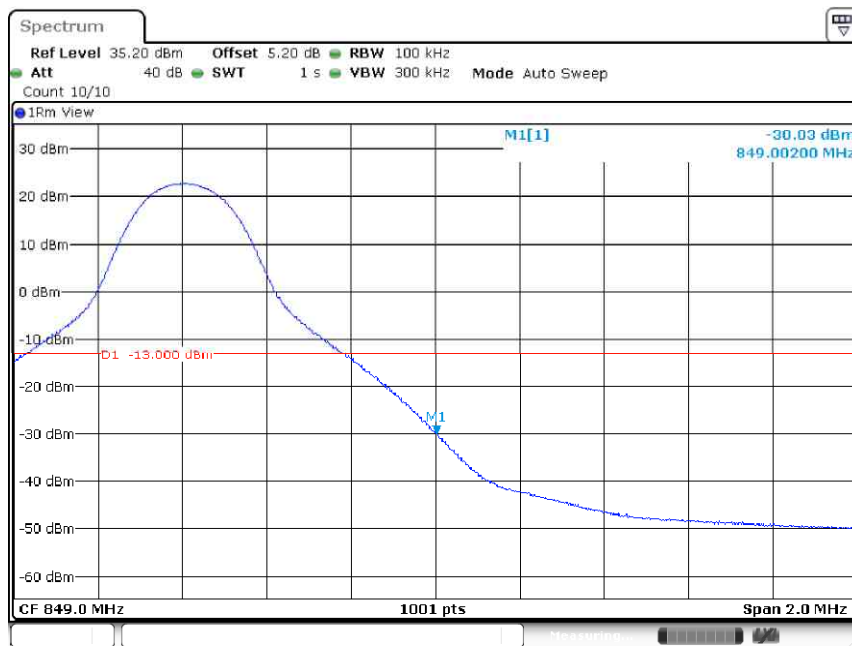


Band5-10MHz-QPSK-20450-50RB#0



Date: 14.AUG.2020 23:57:26

Band5-10MHz-QPSK-20600-1RB#49



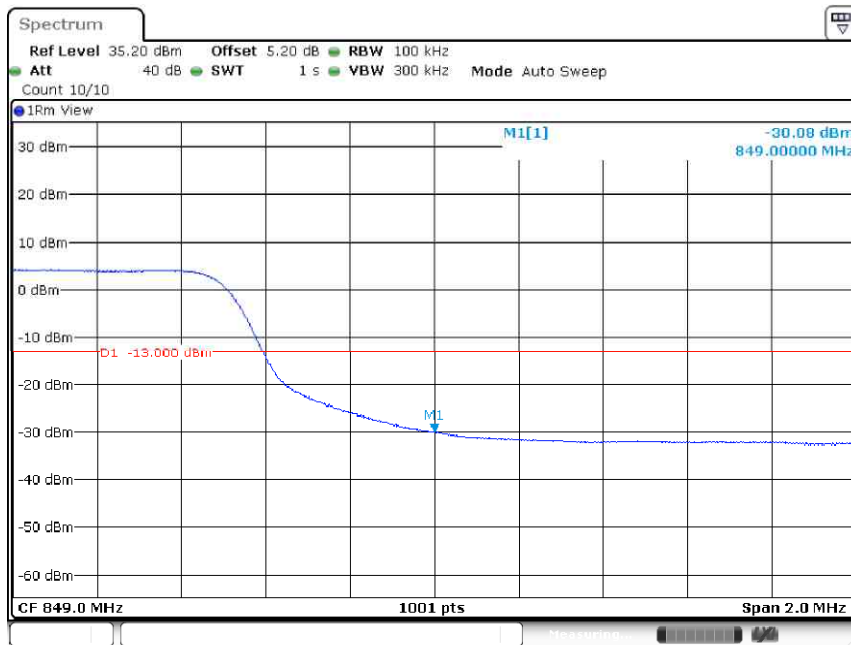
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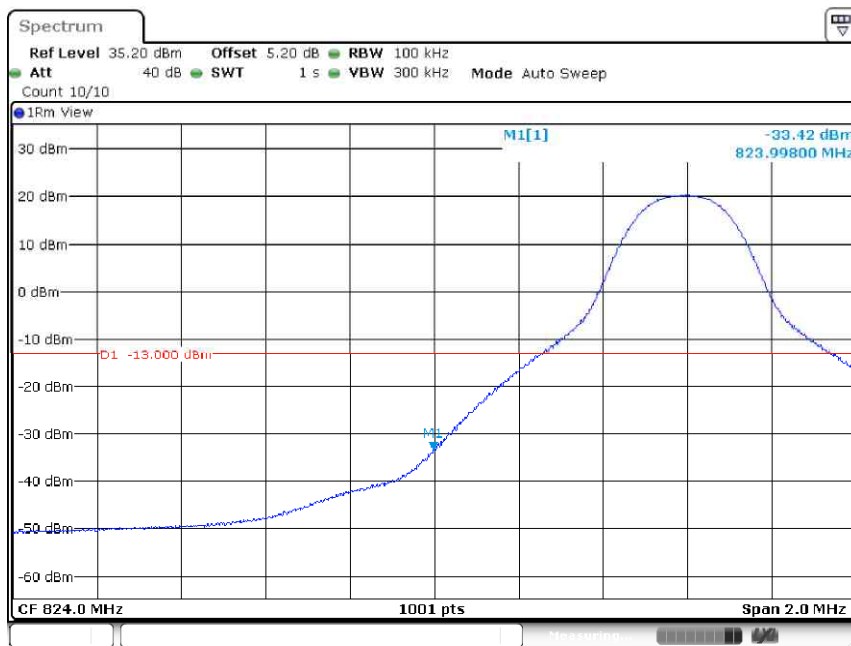


**Band5-10MHz-QPSK-20600-50RB#0**



Date: 14.AUG.2020 23:58:54

**Band5-10MHz-64QAM-20450-1RB#0**



Date: 15.AUG.2020 02:12:11

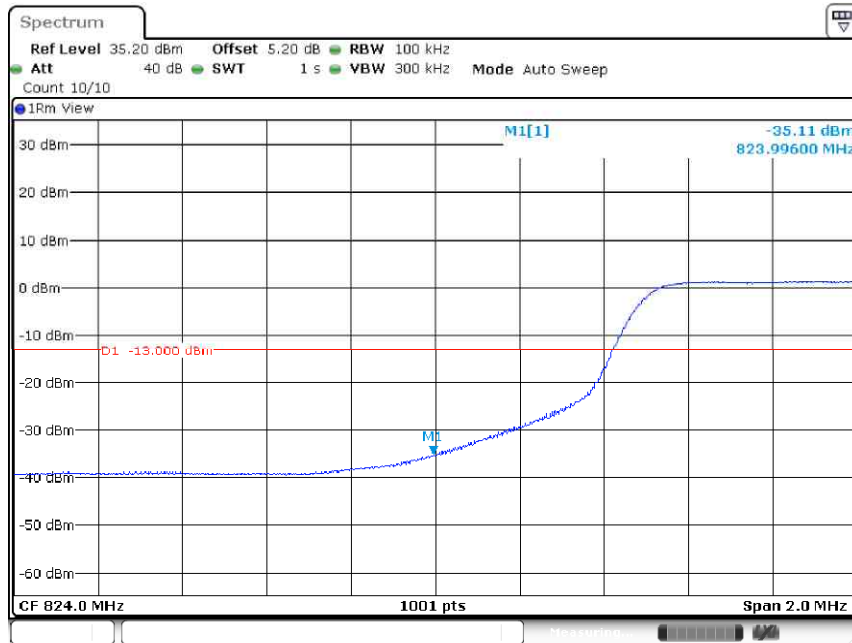


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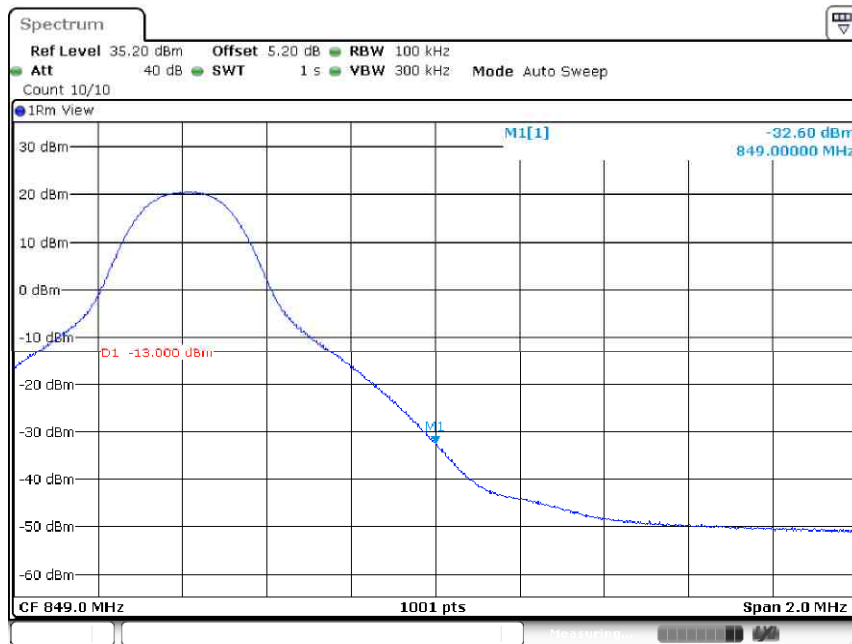


**Band5-10MHz-64QAM-20450-50RB#0**



Date: 15.AUG.2020 02:12:32

**Band5-10MHz-64QAM-20600-1RB#49**



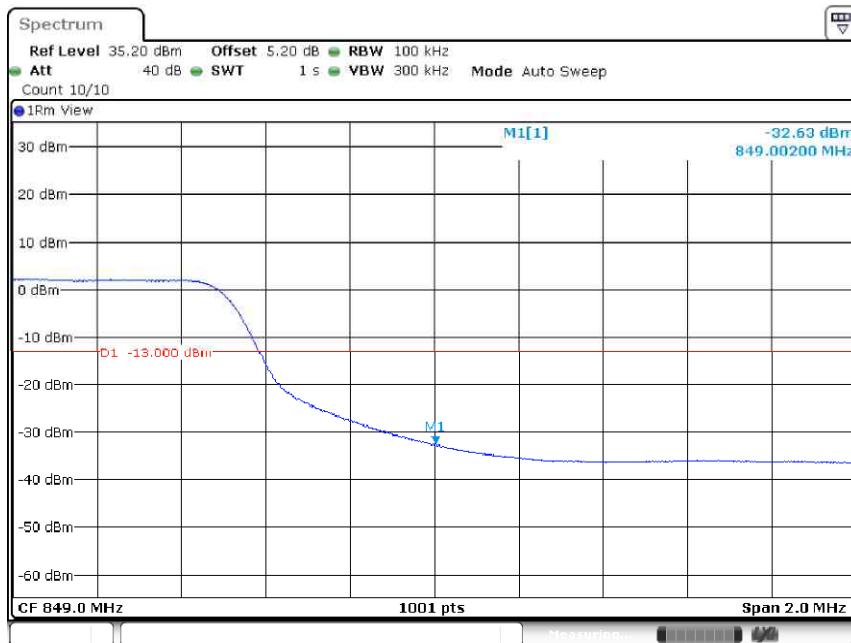
Date: 15.AUG.2020 02:12:58



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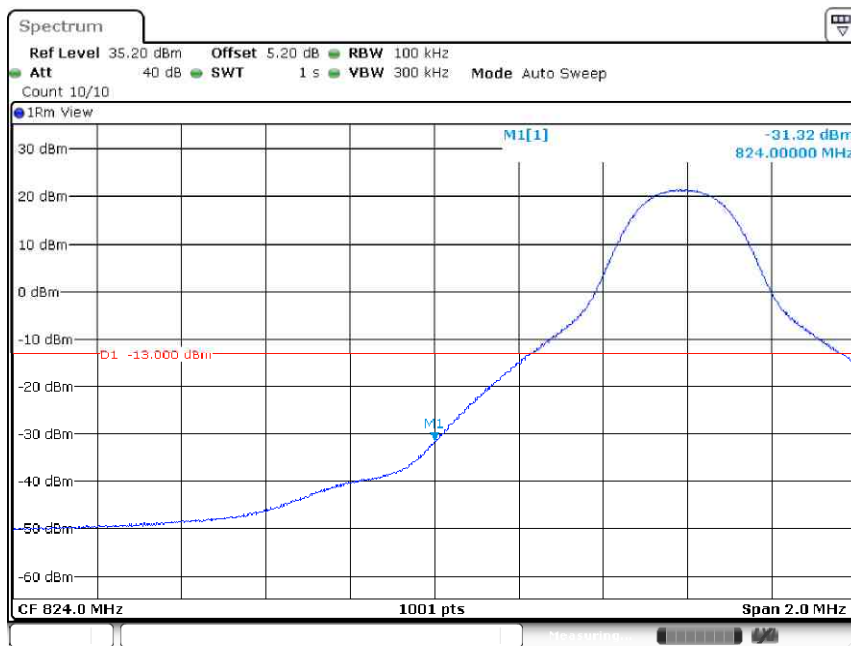


Band5-10MHz-64QAM-20600-50RB#0



Date: 16.AUG.2020 02:13:18

Band5-10MHz-16QAM-20450-1RB#0



Date: 14.AUG.2020 23:57:05



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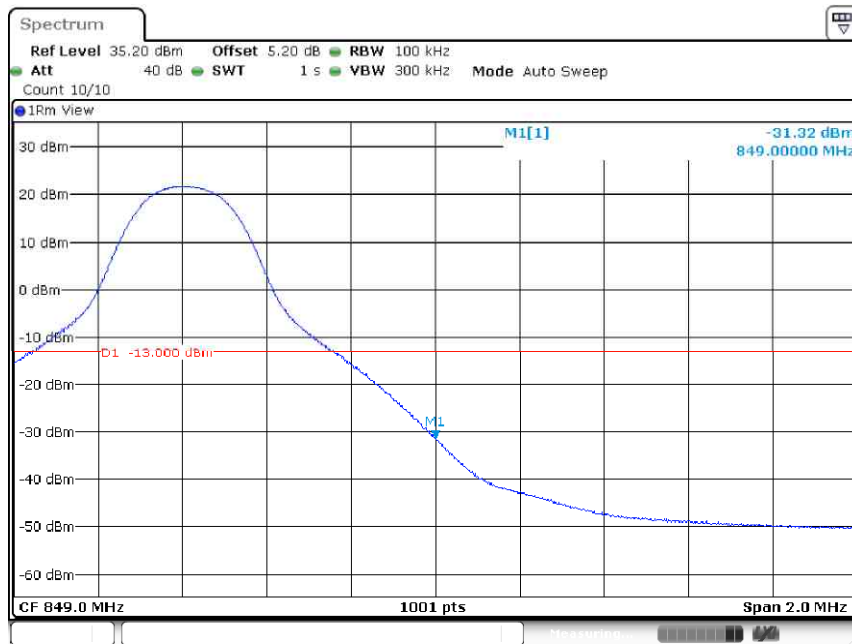
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn  
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

**Band5-10MHz-16QAM-20450-50RB#0**



Date: 14.AUG.2020 23:57:47

**Band5-10MHz-16QAM-20600-1RB#49**

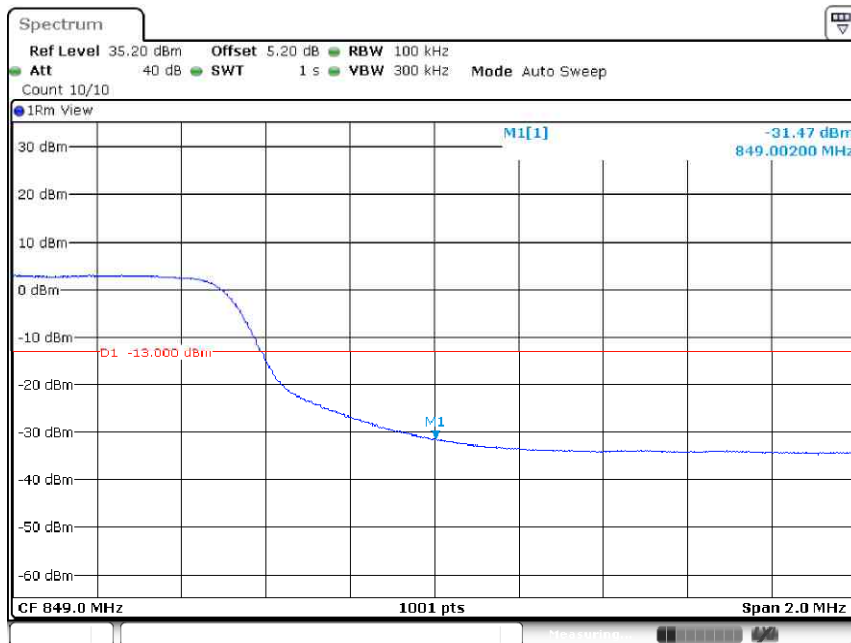


Date: 14.AUG.2020 23:58:33



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Band5-10MHz-16QAM-20600-50RB#0



Date: 14.AUG.2020 23:59:14



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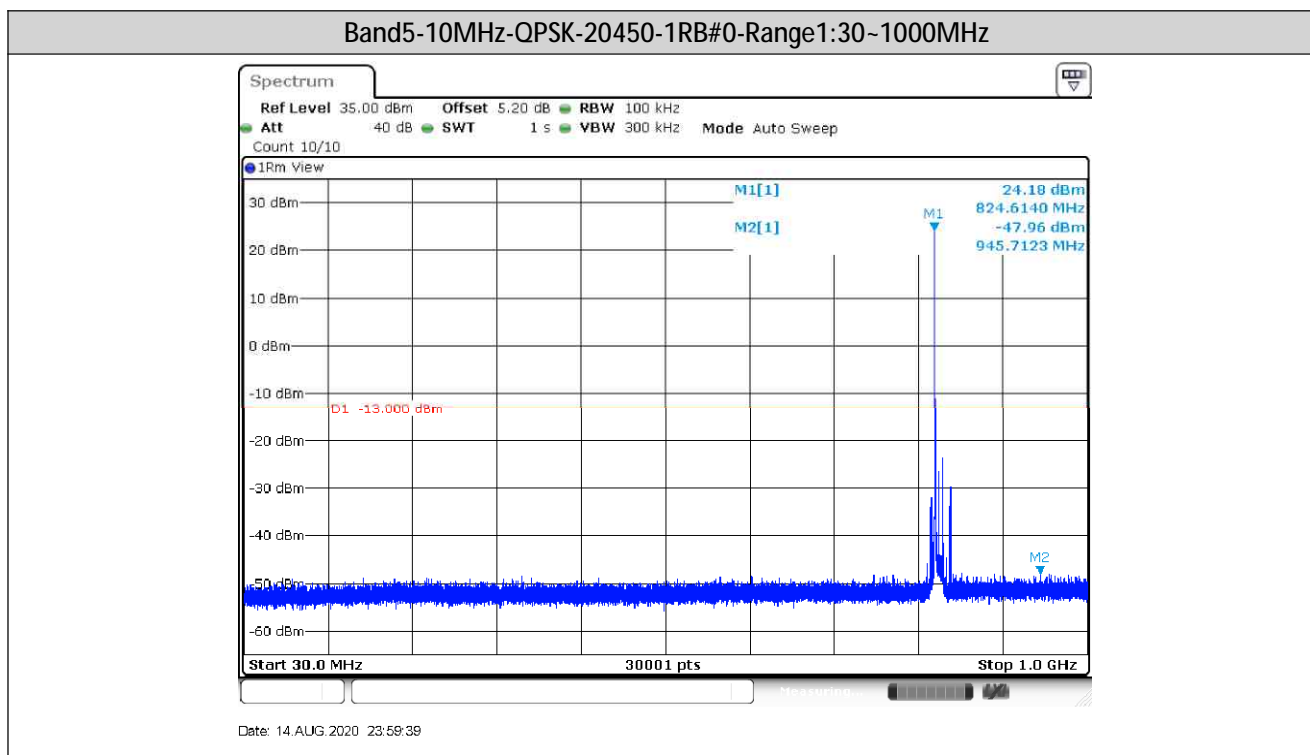


## 6. Spurious Emission at Antenna Terminal

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  $< RBW/2$  so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points =  $k * (Span / RBW)$ " with  $k$  between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

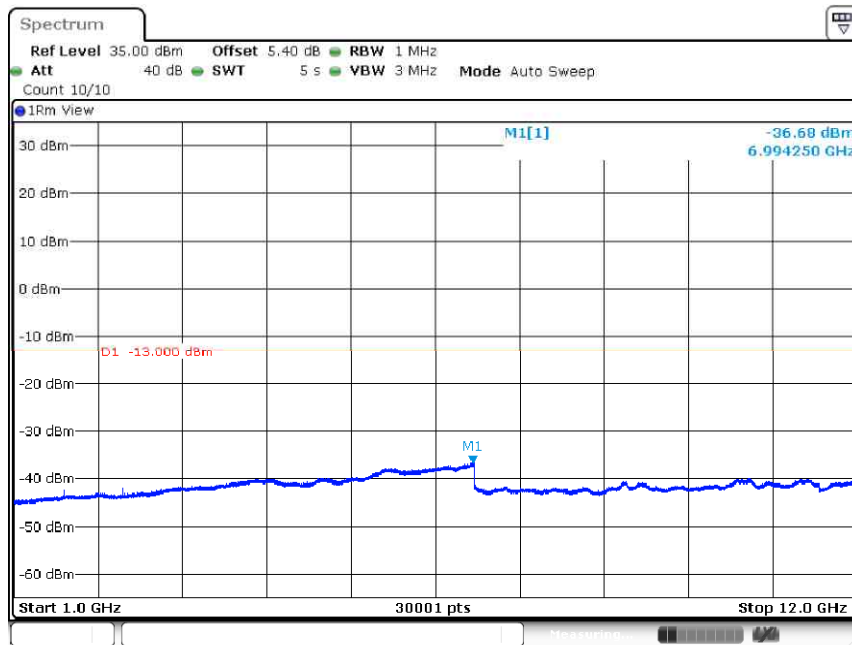
Remark2: only the worst case data displayed in this report.

### 6.1. Test Plots



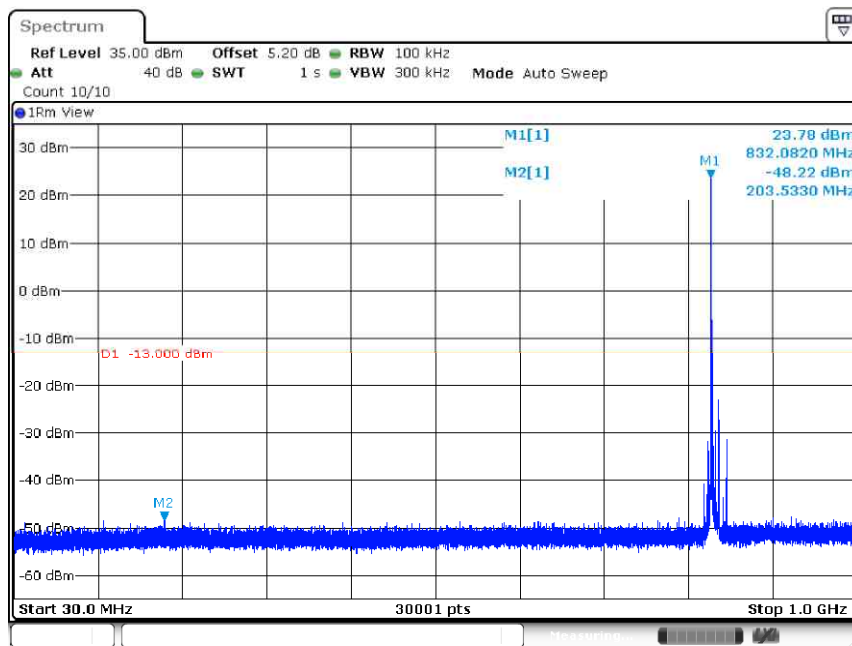
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**Band5-10MHz-QPSK-20450-1RB#0-Range2:1000~12000MHz**



Date: 15.AUG.2020 00:00:46

**Band5-10MHz-QPSK-20525-1RB#0-Range1:30~1000MHz**

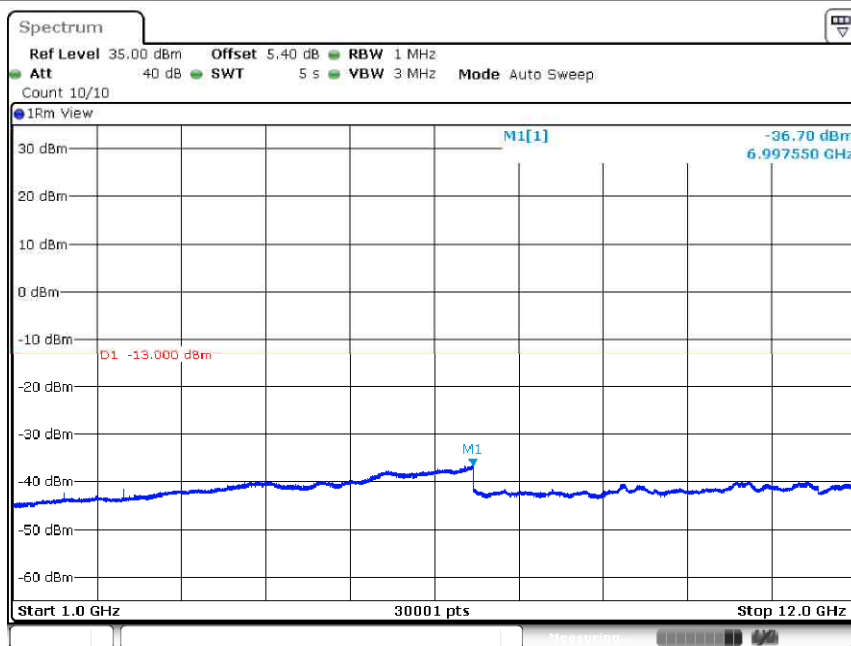


Date: 15.AUG.2020 00:02:34



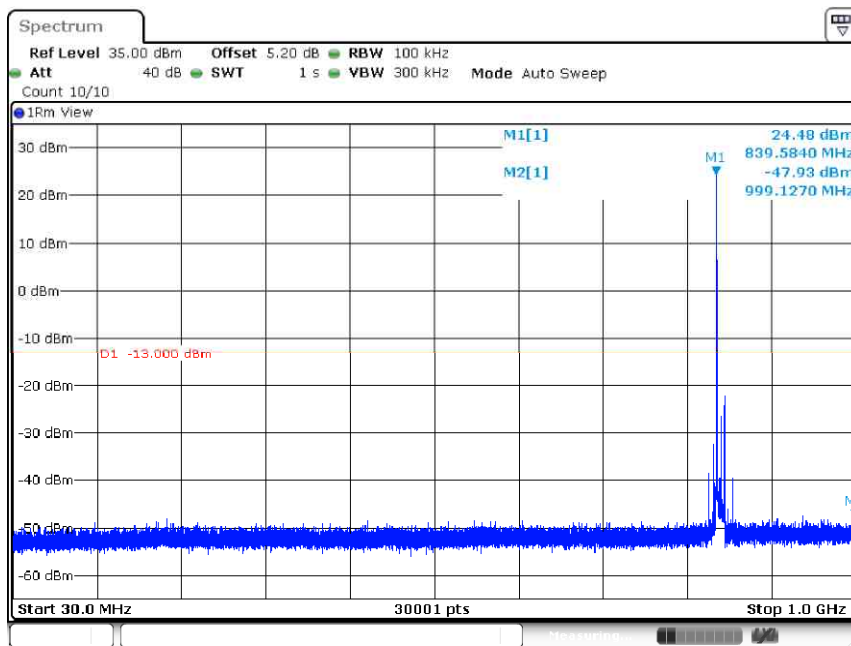
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### Band5-10MHz-QPSK-20525-1RB#0-Range2:1000~12000MHz



Date: 15.AUG.2020 00:03:41

### Band5-10MHz-QPSK-20600-1RB#0-Range1:30~1000MHz



Date: 15.AUG.2020 00:05:29

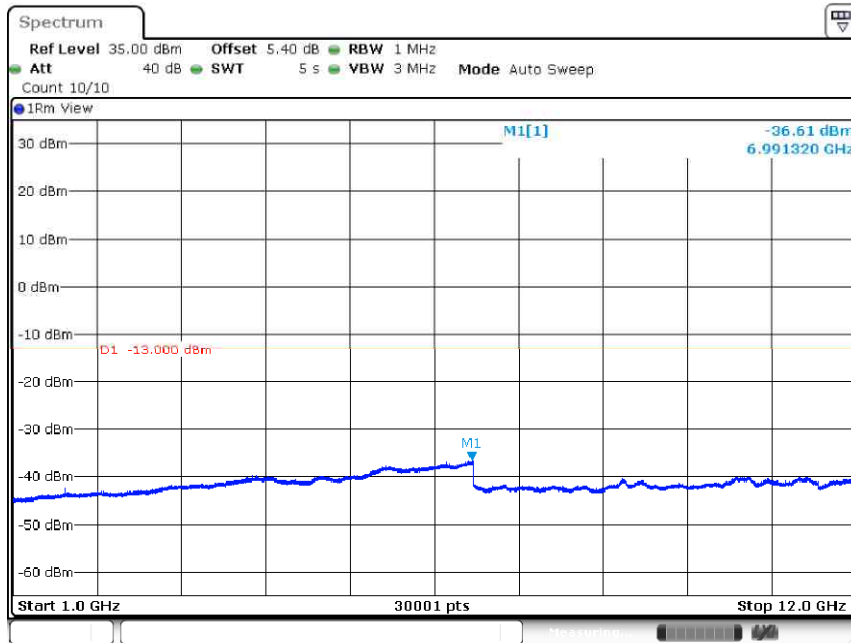


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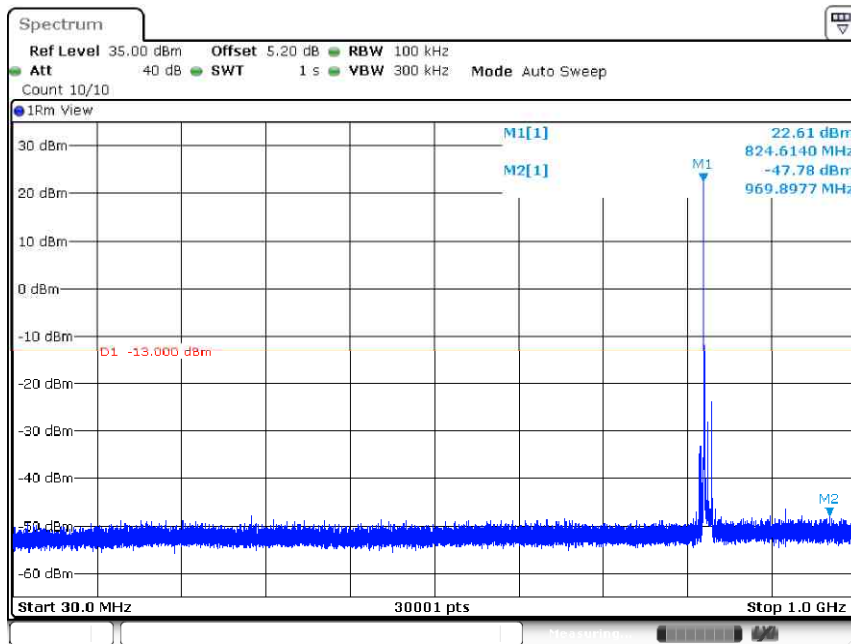


**Band5-10MHz-QPSK-20600-1RB#0-Range2:1000~12000MHz**



Date: 15.AUG.2020 00:08:36

**Band5-10MHz-64QAM-20450-1RB#0-Range1:30~1000MHz**



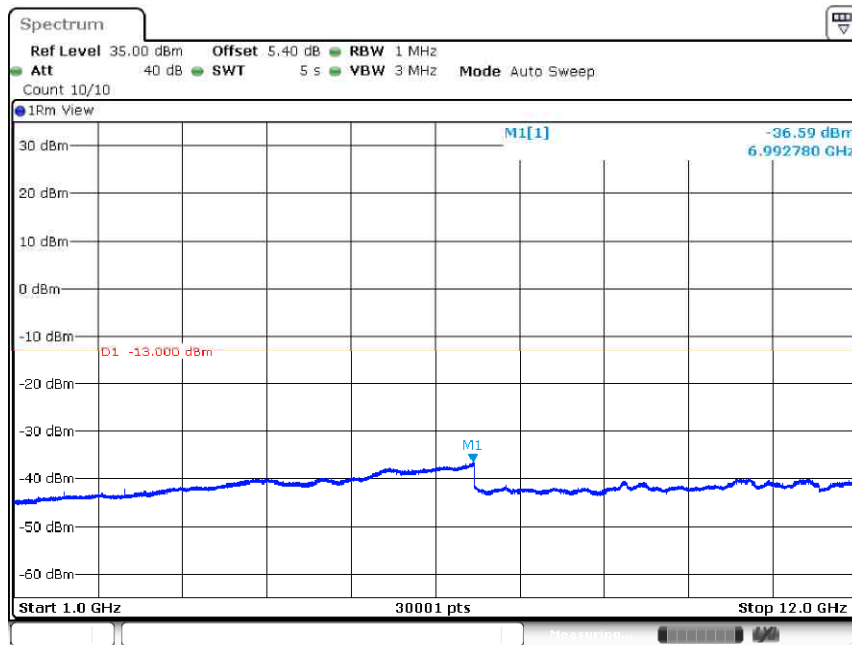
Date: 15.AUG.2020 02:13:44



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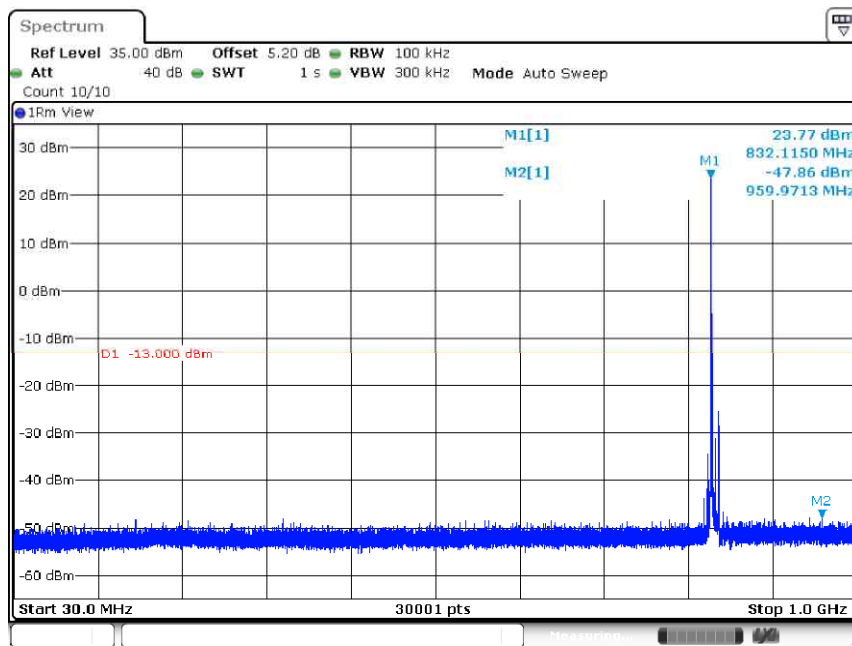


**Band5-10MHz-64QAM-20450-1RB#0-Range2:1000~12000MHz**



Date: 15.AUG.2020 02:14:51

**Band5-10MHz-64QAM-20525-1RB#0-Range1:30~1000MHz**

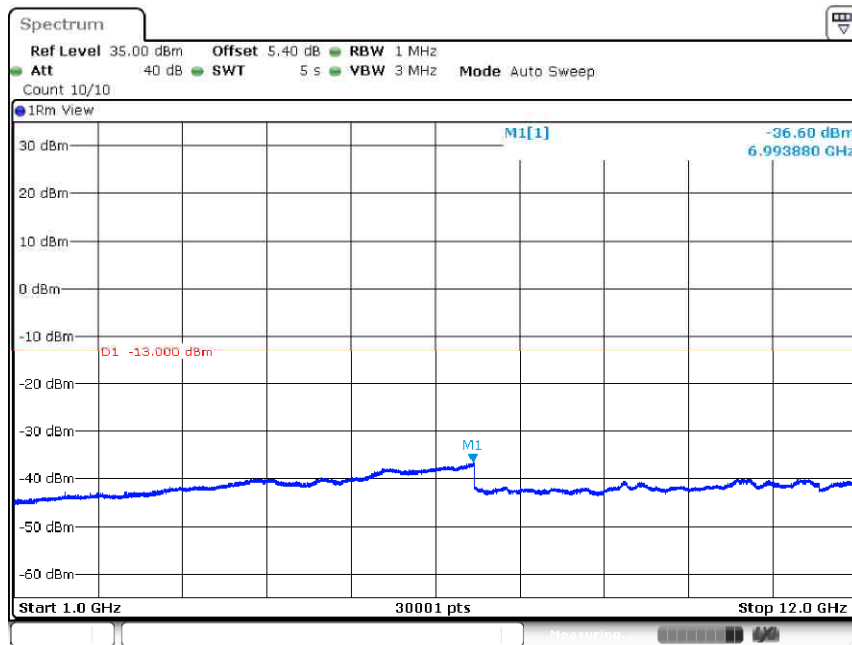


Date: 15.AUG.2020 02:15:12



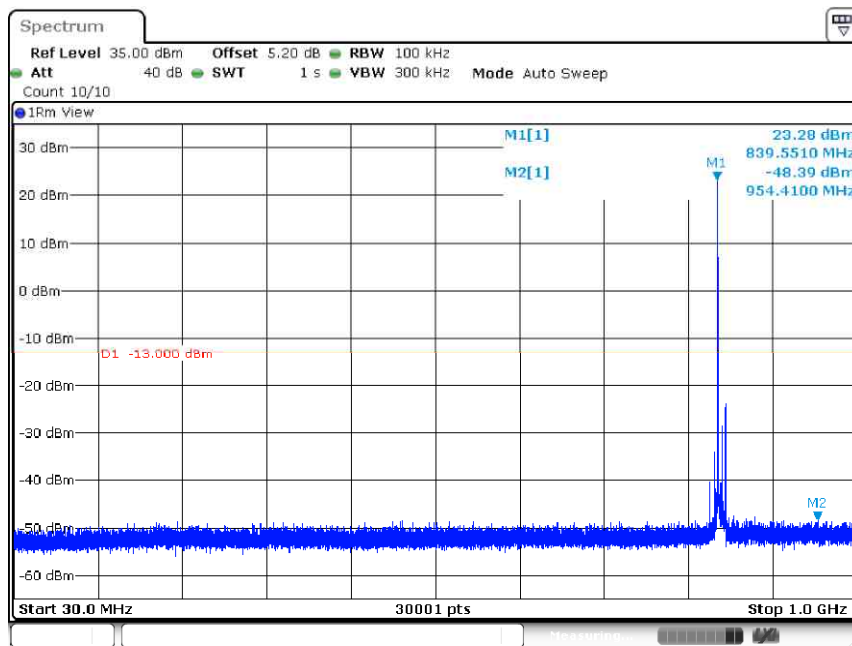
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**Band5-10MHz-64QAM-20525-1RB#0-Range2:1000~12000MHz**



Date: 15.AUG.2020 02:16:19

**Band5-10MHz-64QAM-20600-1RB#0-Range1:30~1000MHz**



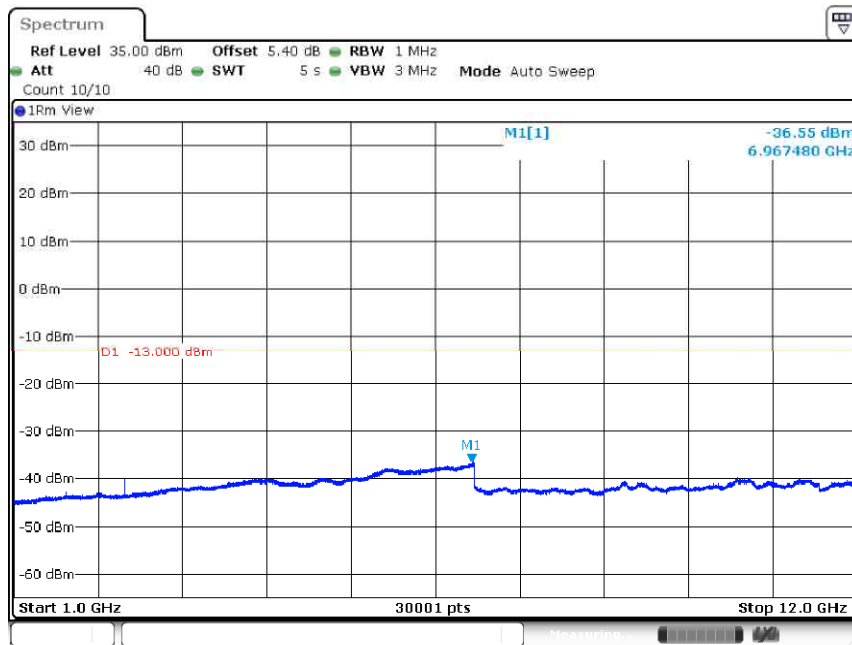
Date: 15.AUG.2020 02:16:39



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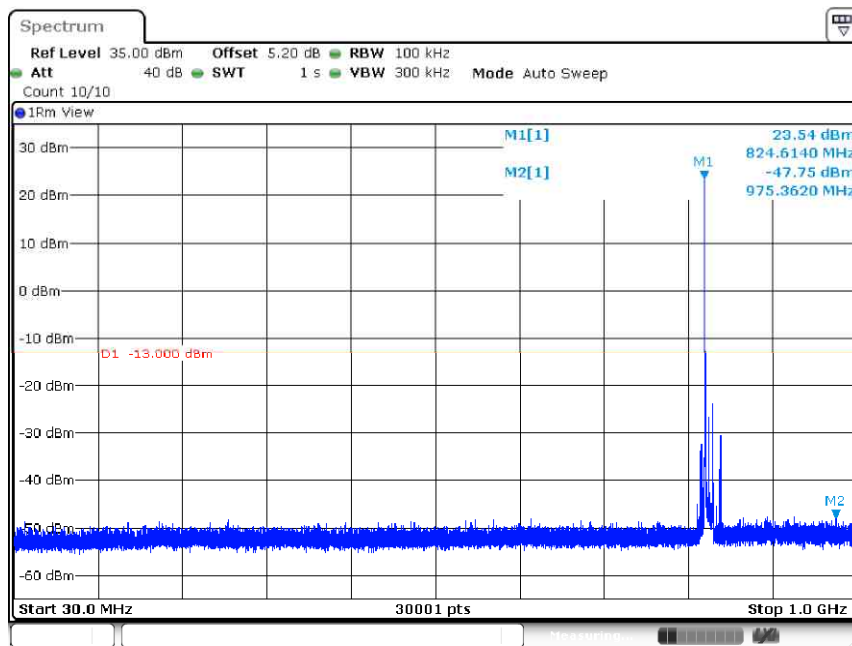


**Band5-10MHz-64QAM-20600-1RB#0-Range2:1000~12000MHz**



Date: 16.AUG.2020 02:17:47

**Band5-10MHz-16QAM-20450-1RB#0-Range1:30~1000MHz**

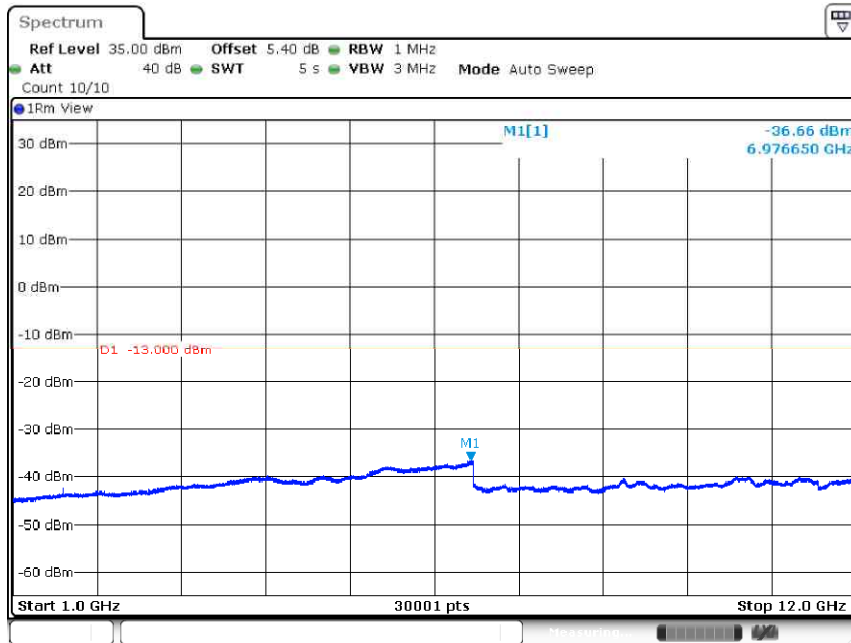


Date: 16.AUG.2020 00:01:06



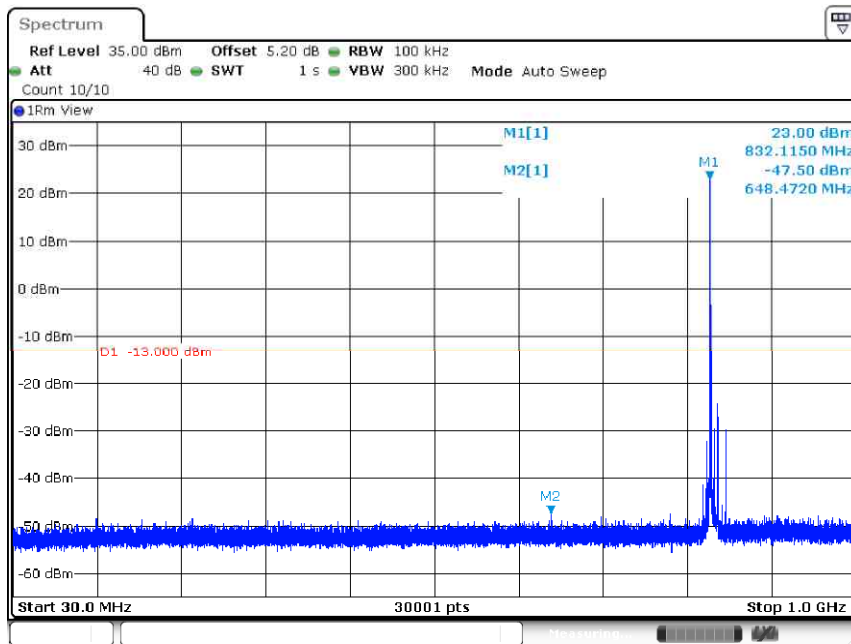
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**Band5-10MHz-16QAM-20450-1RB#0-Range2:1000~12000MHz**



Date: 15.AUG.2020 00:02:14

**Band5-10MHz-16QAM-20525-1RB#0-Range1:30~1000MHz**



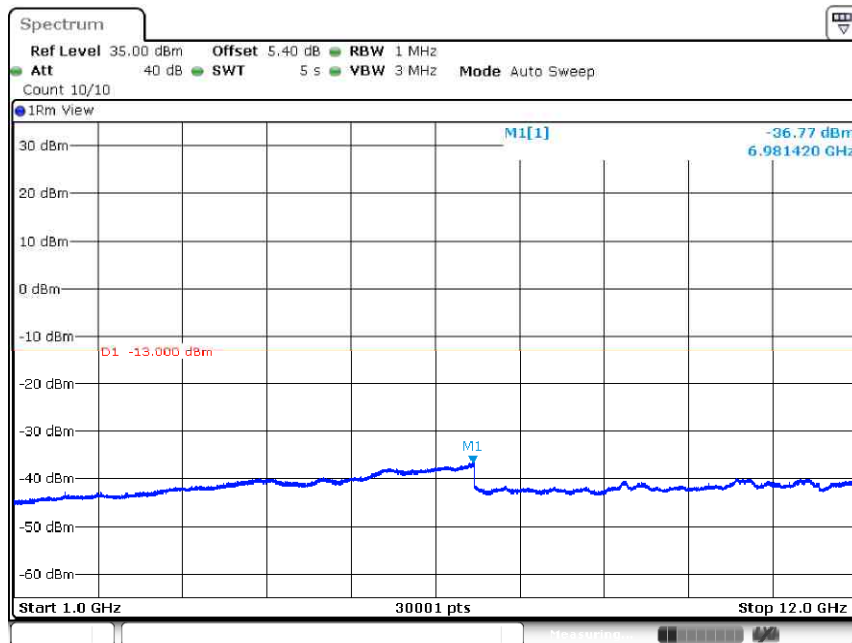
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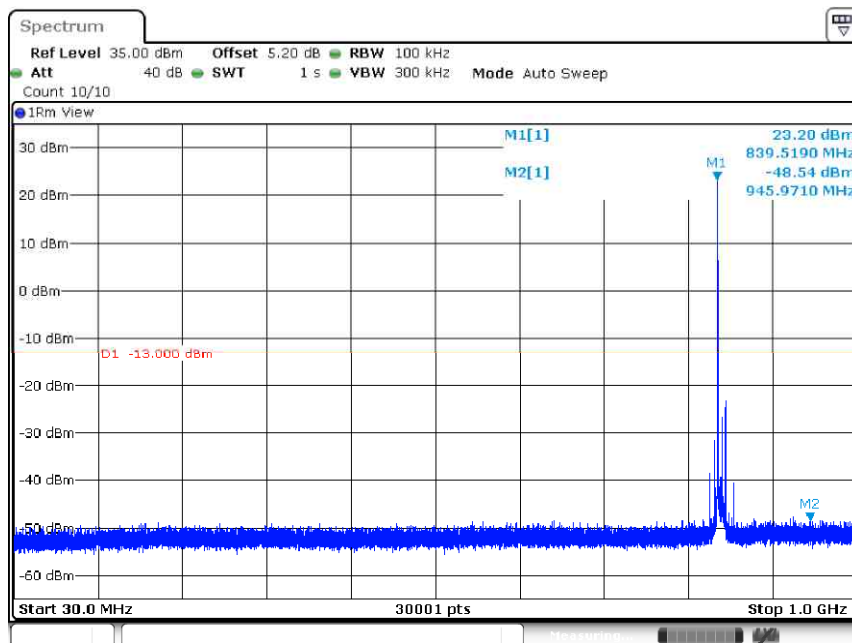


Band5-10MHz-16QAM-20525-1RB#0-Range2:1000~12000MHz



Date: 15.AUG.2020 00:05:08

Band5-10MHz-16QAM-20600-1RB#0-Range1:30~1000MHz



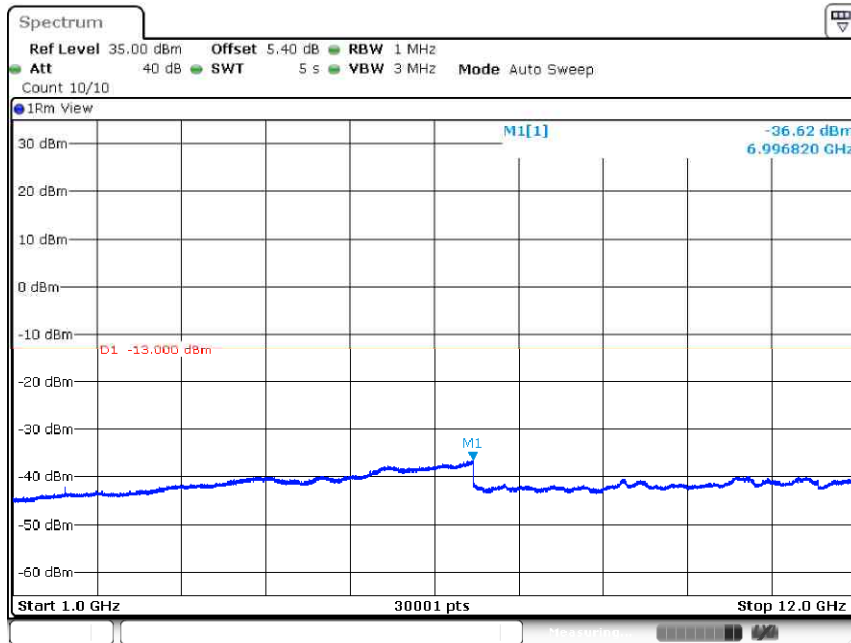
Date: 15.AUG.2020 00:06:57



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**Band5-10MHz-16QAM-20600-1RB#0-Range2:1000~12000MHz**



Date: 16.AUG.2020 00:08:04



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## 7. Field Strength of Spurious Radiation

### 7.1. Test Mode =LTE/TM1 10MHz(Up Antenna)

#### 7.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
50.6620	-70.06	-13.00	57.06	Vertical
118.0804	-62.83	-13.00	49.83	Vertical
328.7749	-66.43	-13.00	53.43	Vertical
1648.9298	-64.57	-13.00	51.57	Vertical
2438.6877	-57.47	-13.00	44.47	Vertical
9297.8766	-52.05	-13.00	39.05	Vertical
41.6891	-62.43	-13.00	49.43	Horizontal
88.4939	-72.70	-13.00	59.70	Horizontal
226.1923	-65.68	-13.00	52.68	Horizontal
1649.3299	-61.38	-13.00	48.38	Horizontal
2699.1398	-56.43	-13.00	43.43	Horizontal
7458.6820	-56.16	-13.00	43.16	Horizontal

#### 7.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
50.1285	-69.94	-13.00	56.94	Vertical
117.3044	-62.38	-13.00	49.38	Vertical
383.6797	-65.57	-13.00	52.57	Vertical
1710.1420	-63.06	-13.00	50.06	Vertical
2691.1382	-57.62	-13.00	44.62	Vertical
7447.9483	-55.89	-13.00	42.89	Vertical
40.6220	-62.57	-13.00	49.57	Horizontal
109.5925	-72.51	-13.00	59.51	Horizontal
243.9442	-64.61	-13.00	51.61	Horizontal
1664.1328	-63.38	-13.00	50.38	Horizontal
2693.9388	-56.40	-13.00	43.40	Horizontal
7466.8489	-56.20	-13.00	43.20	Horizontal



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### 7.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
48.3339	-69.47	-13.00	56.47	Vertical
112.0661	-63.36	-13.00	50.36	Vertical
393.3802	-64.67	-13.00	51.67	Vertical
1699.7399	-63.34	-13.00	50.34	Vertical
2462.6925	-57.33	-13.00	44.33	Vertical
7363.7121	-55.75	-13.00	42.75	Vertical
41.6891	-62.09	-13.00	49.09	Horizontal
79.0360	-73.29	-13.00	60.29	Horizontal
235.7958	-65.83	-13.00	52.83	Horizontal
1599.7199	-64.11	-13.00	51.11	Horizontal
2701.5403	-56.49	-13.00	43.49	Horizontal
9327.0442	-52.83	-13.00	39.83	Horizontal



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## 7.2. Test Mode =LTE/TM1 10MHz(Down Antenna)

### 7.2.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
111.3386	-62.39	-13.00	49.39	Vertical
433.3462	-65.01	-13.00	52.01	Vertical
1648.9298	-56.62	-13.00	43.62	Vertical
2473.8948	-55.26	-13.00	42.26	Vertical
7312.6104	-56.85	-13.00	43.85	Vertical
9828.0276	-52.43	-13.00	39.43	Vertical
39.6520	-62.82	-13.00	49.82	Horizontal
233.9042	-65.02	-13.00	52.02	Horizontal
1649.3299	-56.21	-13.00	43.21	Horizontal
2473.8948	-51.81	-13.00	38.81	Horizontal
7486.2162	-56.63	-13.00	43.63	Horizontal
9310.0103	-53.01	-13.00	40.01	Horizontal

### 7.2.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
107.2159	-62.20	-13.00	49.20	Vertical
453.6202	-64.56	-13.00	51.56	Vertical
1664.1328	-59.42	-13.00	46.42	Vertical
2496.2993	-57.47	-13.00	44.47	Vertical
7329.8777	-56.11	-13.00	43.11	Vertical
9901.7634	-52.54	-13.00	39.54	Vertical
37.7119	-62.02	-13.00	49.02	Horizontal
230.5575	-65.15	-13.00	52.15	Horizontal
1664.1328	-57.47	-13.00	44.47	Horizontal
2496.2993	-54.86	-13.00	41.86	Horizontal
5611.7871	-61.22	-13.00	48.22	Horizontal
9312.3437	-52.57	-13.00	39.57	Horizontal



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### 7.2.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
111.3386	-62.65	-13.00	49.65	Vertical
449.5460	-64.54	-13.00	51.54	Vertical
1679.3359	-62.44	-13.00	49.44	Vertical
2518.7037	-58.20	-13.00	45.20	Vertical
7997.6999	-55.75	-13.00	42.75	Vertical
9893.1298	-52.22	-13.00	39.22	Vertical
42.2711	-62.88	-13.00	49.88	Horizontal
244.9627	-65.27	-13.00	52.27	Horizontal
1678.9358	-61.45	-13.00	48.45	Horizontal
2518.7037	-54.97	-13.00	41.97	Horizontal
6695.1898	-59.12	-13.00	46.12	Horizontal
9330.5444	-52.57	-13.00	39.57	Horizontal

**Remark:**

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



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## 8. Frequency Stability

### 8.1. Frequency Vs Voltage

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	VL	NT	-0.50	-0.000603	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VN	NT	-0.50	-0.000603	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VH	NT	0.50	0.000603	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VL	NT	-0.60	-0.000717	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VN	NT	0.10	0.000120	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VH	NT	0.70	0.000837	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VL	NT	1.80	0.002133	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VN	NT	2.30	0.002725	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VH	NT	0.10	0.000118	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	VL	NT	0.70	0.000844	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	VN	NT	-1.10	-0.001327	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	VH	NT	-0.80	-0.000965	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	VL	NT	1.30	0.001554	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	VN	NT	2.80	0.003347	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	VH	NT	-0.10	-0.000120	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	VL	NT	0.30	0.000355	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	VN	NT	0.20	0.000237	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	VH	NT	0.40	0.000474	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VL	NT	0.50	0.000603	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VN	NT	-0.40	-0.000483	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VH	NT	-0.10	-0.000121	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VL	NT	0.50	0.000598	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VN	NT	-0.80	-0.000956	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VH	NT	-1.10	-0.001315	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VL	NT	-1.70	-0.002014	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VN	NT	0.50	0.000592	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VH	NT	0.50	0.000592	±2.5	PASS

### 8.2. Frequency Vs Temperature

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
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Band5	10MHz	QPSK	20450	50RB#0	NV	-30	-0.10	-0.000121	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	-20	-0.20	-0.000241	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	0	-1.30	-0.001568	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	10	2.00	0.002413	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	20	-0.60	-0.000724	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	30	0.30	0.000362	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	40	-1.60	-0.001930	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	50	0.00	0.000000	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-30	0.80	0.000956	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	-0.60	-0.000717	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	0	2.00	0.002391	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	10	-0.90	-0.001076	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	20	-0.50	-0.000598	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	30	-0.10	-0.000120	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	0.40	0.000478	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	-1.10	-0.001315	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-30	0.40	0.000474	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-20	3.10	0.003673	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	0	1.30	0.001540	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	10	1.90	0.002251	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	20	0.20	0.000237	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	30	-0.50	-0.000592	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	40	0.70	0.000829	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	50	0.10	0.000118	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	-30	0.60	0.000724	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	-20	-0.50	-0.000603	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	0	-1.50	-0.001809	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	10	-0.60	-0.000724	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	20	-0.90	-0.001086	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	30	0.50	0.000603	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	40	-1.30	-0.001568	±2.5	PASS
Band5	10MHz	64QAM	20450	50RB#0	NV	50	-1.00	-0.001206	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	-30	-0.10	-0.000120	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	-20	0.20	0.000239	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	0	2.40	0.002869	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	10	1.20	0.001435	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	20	0.70	0.000837	±2.5	PASS
Band5	10MHz	64QAM	20525	50RB#0	NV	30	1.30	0.001554	±2.5	PASS



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Band5	10MHz	64QAM	20525	50RB#0	NV	50	-0.60	-0.000717	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	-30	2.10	0.002488	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	-20	2.20	0.002607	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	0	1.70	0.002014	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	10	0.80	0.000948	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	20	0.90	0.001066	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	30	1.80	0.002133	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	40	1.00	0.001185	±2.5	PASS
Band5	10MHz	64QAM	20600	50RB#0	NV	50	1.40	0.001659	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	-30	-0.50	-0.000603	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	-20	0.90	0.001086	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	0	1.10	0.001327	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	10	1.20	0.001448	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	20	0.70	0.000844	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	30	1.30	0.001568	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	40	2.10	0.002533	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	50	2.20	0.002654	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-30	-0.50	-0.000598	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-20	-0.10	-0.000120	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	0	1.20	0.001435	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	10	1.30	0.001554	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	20	3.20	0.003825	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	30	0.30	0.000359	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	40	0.60	0.000717	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	50	0.40	0.000478	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	-30	0.20	0.000237	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	-20	0.80	0.000948	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	0	-0.70	-0.000829	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	10	-0.30	-0.000355	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	20	0.40	0.000474	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	30	1.70	0.002014	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	40	-1.00	-0.001185	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	50	-0.50	-0.000592	±2.5	PASS



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