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Appendix B.3

LTE Band 2



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Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band2	1.4MHz	QPSK	18607	1RB#0	23.36	23.36	33	PASS
Band2	1.4MHz	QPSK	18607	1RB#2	23.41	23.41	33	PASS
Band2	1.4MHz	QPSK	18607	1RB#5	23.41	23.41	33	PASS
Band2	1.4MHz	QPSK	18607	6RB#0	22.42	22.42	33	PASS
Band2	1.4MHz	QPSK	18900	1RB#0	23.23	23.23	33	PASS
Band2	1.4MHz	QPSK	18900	1RB#2	23.34	23.34	33	PASS
Band2	1.4MHz	QPSK	18900	1RB#5	23.24	23.24	33	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	22.35	22.35	33	PASS
Band2	1.4MHz	QPSK	19193	1RB#0	22.89	22.89	33	PASS
Band2	1.4MHz	QPSK	19193	1RB#2	22.95	22.95	33	PASS
Band2	1.4MHz	QPSK	19193	1RB#5	22.88	22.88	33	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	21.8	21.8	33	PASS
Band2	1.4MHz	16QAM	18607	1RB#0	22.62	22.62	33	PASS
Band2	1.4MHz	16QAM	18607	1RB#2	22.74	22.74	33	PASS
Band2	1.4MHz	16QAM	18607	1RB#5	22.52	22.52	33	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	21.46	21.46	33	PASS
Band2	1.4MHz	16QAM	18900	1RB#0	22.56	22.56	33	PASS
Band2	1.4MHz	16QAM	18900	1RB#2	22.64	22.64	33	PASS
Band2	1.4MHz	16QAM	18900	1RB#5	22.55	22.55	33	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	21.52	21.52	33	PASS
Band2	1.4MHz	16QAM	19193	1RB#0	22.17	22.17	33	PASS
Band2	1.4MHz	16QAM	19193	1RB#2	22.2	22.2	33	PASS
Band2	1.4MHz	16QAM	19193	1RB#5	22.1	22.1	33	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	21.24	21.24	33	PASS
Band2	1.4MHz	64QAM	18607	1RB#0	21.18	21.18	33	PASS
Band2	1.4MHz	64QAM	18607	1RB#2	21.19	21.19	33	PASS
Band2	1.4MHz	64QAM	18607	1RB#5	21.18	21.18	33	PASS
Band2	1.4MHz	64QAM	18607	6RB#0	20.4	20.4	33	PASS



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Band2	1.4MHz	64QAM	18900	1RB#0	21.03	21.03	33	PASS
Band2	1.4MHz	64QAM	18900	1RB#2	21.16	21.16	33	PASS
Band2	1.4MHz	64QAM	18900	1RB#5	21.15	21.15	33	PASS
Band2	1.4MHz	64QAM	18900	6RB#0	20.06	20.06	33	PASS
Band2	1.4MHz	64QAM	19193	1RB#0	20.12	20.12	33	PASS
Band2	1.4MHz	64QAM	19193	1RB#2	20.2	20.2	33	PASS
Band2	1.4MHz	64QAM	19193	1RB#5	20.14	20.14	33	PASS
Band2	1.4MHz	64QAM	19193	6RB#0	19.27	19.27	33	PASS
Band2	3MHz	QPSK	18615	1RB#0	23.4	23.4	33	PASS
Band2	3MHz	QPSK	18615	1RB#8	23.37	23.37	33	PASS
Band2	3MHz	QPSK	18615	1RB#14	23.44	23.44	33	PASS
Band2	3MHz	QPSK	18615	15RB#0	22.45	22.45	33	PASS
Band2	3MHz	QPSK	18900	1RB#0	23.26	23.26	33	PASS
Band2	3MHz	QPSK	18900	1RB#8	23.36	23.36	33	PASS
Band2	3MHz	QPSK	18900	1RB#14	23.31	23.31	33	PASS
Band2	3MHz	QPSK	18900	15RB#0	22.4	22.4	33	PASS
Band2	3MHz	QPSK	19185	1RB#0	23.03	23.03	33	PASS
Band2	3MHz	QPSK	19185	1RB#8	23.09	23.09	33	PASS
Band2	3MHz	QPSK	19185	1RB#14	23.01	23.01	33	PASS
Band2	3MHz	QPSK	19185	15RB#0	22.1	22.1	33	PASS
Band2	3MHz	16QAM	18615	1RB#0	22.78	22.78	33	PASS
Band2	3MHz	16QAM	18615	1RB#8	22.79	22.79	33	PASS
Band2	3MHz	16QAM	18615	1RB#14	22.71	22.71	33	PASS
Band2	3MHz	16QAM	18615	15RB#0	21.47	21.47	33	PASS
Band2	3MHz	16QAM	18900	1RB#0	22.56	22.56	33	PASS
Band2	3MHz	16QAM	18900	1RB#8	22.82	22.82	33	PASS
Band2	3MHz	16QAM	18900	1RB#14	22.66	22.66	33	PASS
Band2	3MHz	16QAM	18900	15RB#0	21.43	21.43	33	PASS
Band2	3MHz	16QAM	19185	1RB#0	22.25	22.25	33	PASS
Band2	3MHz	16QAM	19185	1RB#8	22.4	22.4	33	PASS
Band2	3MHz	16QAM	19185	1RB#14	22.26	22.26	33	PASS
Band2	3MHz	16QAM	19185	15RB#0	21.26	21.26	33	PASS
Band2	3MHz	64QAM	18615	1RB#0	21.11	21.11	33	PASS



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Band2	3MHz	64QAM	18615	1RB#8	21.26	21.26	33	PASS
Band2	3MHz	64QAM	18615	1RB#14	21.16	21.16	33	PASS
Band2	3MHz	64QAM	18615	15RB#0	20.29	20.29	33	PASS
Band2	3MHz	64QAM	18900	1RB#0	21.05	21.05	33	PASS
Band2	3MHz	64QAM	18900	1RB#8	21.18	21.18	33	PASS
Band2	3MHz	64QAM	18900	1RB#14	21.18	21.18	33	PASS
Band2	3MHz	64QAM	18900	15RB#0	20.12	20.12	33	PASS
Band2	3MHz	64QAM	19185	1RB#0	20.32	20.32	33	PASS
Band2	3MHz	64QAM	19185	1RB#8	20.36	20.36	33	PASS
Band2	3MHz	64QAM	19185	1RB#14	20.28	20.28	33	PASS
Band2	3MHz	64QAM	19185	15RB#0	19.2	19.2	33	PASS
Band2	5MHz	QPSK	18625	1RB#0	23.36	23.36	33	PASS
Band2	5MHz	QPSK	18625	1RB#12	23.44	23.44	33	PASS
Band2	5MHz	QPSK	18625	1RB#24	23.35	23.35	33	PASS
Band2	5MHz	QPSK	18625	25RB#0	22.45	22.45	33	PASS
Band2	5MHz	QPSK	18900	1RB#0	23.19	23.19	33	PASS
Band2	5MHz	QPSK	18900	1RB#12	23.35	23.35	33	PASS
Band2	5MHz	QPSK	18900	1RB#24	23.41	23.41	33	PASS
Band2	5MHz	QPSK	18900	25RB#0	22.38	22.38	33	PASS
Band2	5MHz	QPSK	19175	1RB#0	22.94	22.94	33	PASS
Band2	5MHz	QPSK	19175	1RB#12	23.03	23.03	33	PASS
Band2	5MHz	QPSK	19175	1RB#24	22.97	22.97	33	PASS
Band2	5MHz	QPSK	19175	25RB#0	22.05	22.05	33	PASS
Band2	5MHz	16QAM	18625	1RB#0	22.63	22.63	33	PASS
Band2	5MHz	16QAM	18625	1RB#12	22.77	22.77	33	PASS
Band2	5MHz	16QAM	18625	1RB#24	22.71	22.71	33	PASS
Band2	5MHz	16QAM	18625	25RB#0	21.41	21.41	33	PASS
Band2	5MHz	16QAM	18900	1RB#0	22.52	22.52	33	PASS
Band2	5MHz	16QAM	18900	1RB#12	22.62	22.62	33	PASS
Band2	5MHz	16QAM	18900	1RB#24	22.61	22.61	33	PASS
Band2	5MHz	16QAM	18900	25RB#0	21.44	21.44	33	PASS
Band2	5MHz	16QAM	19175	1RB#0	22.2	22.2	33	PASS
Band2	5MHz	16QAM	19175	1RB#12	22.25	22.25	33	PASS



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Band2	5MHz	16QAM	19175	1RB#24	22.21	22.21	33	PASS
Band2	5MHz	16QAM	19175	25RB#0	21.18	21.18	33	PASS
Band2	5MHz	64QAM	18625	1RB#0	20.87	20.87	33	PASS
Band2	5MHz	64QAM	18625	1RB#12	21.14	21.14	33	PASS
Band2	5MHz	64QAM	18625	1RB#24	21.07	21.07	33	PASS
Band2	5MHz	64QAM	18625	25RB#0	20.27	20.27	33	PASS
Band2	5MHz	64QAM	18900	1RB#0	21.01	21.01	33	PASS
Band2	5MHz	64QAM	18900	1RB#12	21.22	21.22	33	PASS
Band2	5MHz	64QAM	18900	1RB#24	21.2	21.2	33	PASS
Band2	5MHz	64QAM	18900	25RB#0	20.11	20.11	33	PASS
Band2	5MHz	64QAM	19175	1RB#0	20.14	20.14	33	PASS
Band2	5MHz	64QAM	19175	1RB#12	20.24	20.24	33	PASS
Band2	5MHz	64QAM	19175	1RB#24	20.15	20.15	33	PASS
Band2	5MHz	64QAM	19175	25RB#0	19.31	19.31	33	PASS
Band2	10MHz	QPSK	18650	1RB#0	23.38	23.38	33	PASS
Band2	10MHz	QPSK	18650	1RB#24	23.35	23.35	33	PASS
Band2	10MHz	QPSK	18650	1RB#49	23.39	23.39	33	PASS
Band2	10MHz	QPSK	18650	50RB#0	22.43	22.43	33	PASS
Band2	10MHz	QPSK	18900	1RB#0	23.27	23.27	33	PASS
Band2	10MHz	QPSK	18900	1RB#24	23.41	23.41	33	PASS
Band2	10MHz	QPSK	18900	1RB#49	23.49	23.49	33	PASS
Band2	10MHz	QPSK	18900	50RB#0	22.42	22.42	33	PASS
Band2	10MHz	QPSK	19150	1RB#0	23.19	23.19	33	PASS
Band2	10MHz	QPSK	19150	1RB#24	23	23	33	PASS
Band2	10MHz	QPSK	19150	1RB#49	22.98	22.98	33	PASS
Band2	10MHz	QPSK	19150	50RB#0	21.95	21.95	33	PASS
Band2	10MHz	16QAM	18650	1RB#0	22.69	22.69	33	PASS
Band2	10MHz	16QAM	18650	1RB#24	22.83	22.83	33	PASS
Band2	10MHz	16QAM	18650	1RB#49	22.62	22.62	33	PASS
Band2	10MHz	16QAM	18650	50RB#0	21.45	21.45	33	PASS
Band2	10MHz	16QAM	18900	1RB#0	22.75	22.75	33	PASS
Band2	10MHz	16QAM	18900	1RB#24	22.58	22.58	33	PASS
Band2	10MHz	16QAM	18900	1RB#49	22.79	22.79	33	PASS



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Band2	10MHz	16QAM	19150	1RB#0	22.46	22.46	33	PASS
Band2	10MHz	16QAM	19150	1RB#24	22.28	22.28	33	PASS
Band2	10MHz	16QAM	19150	1RB#49	22.14	22.14	33	PASS
Band2	10MHz	16QAM	19150	50RB#0	20.93	20.93	33	PASS
Band2	10MHz	64QAM	18650	1RB#0	20.47	20.47	33	PASS
Band2	10MHz	64QAM	18650	1RB#24	21.06	21.06	33	PASS
Band2	10MHz	64QAM	18650	1RB#49	20.46	20.46	33	PASS
Band2	10MHz	64QAM	18650	50RB#0	20.18	20.18	33	PASS
Band2	10MHz	64QAM	18900	1RB#0	20.58	20.58	33	PASS
Band2	10MHz	64QAM	18900	1RB#24	21.18	21.18	33	PASS
Band2	10MHz	64QAM	18900	1RB#49	20.83	20.83	33	PASS
Band2	10MHz	64QAM	18900	50RB#0	20.12	20.12	33	PASS
Band2	10MHz	64QAM	19150	1RB#0	20.43	20.43	33	PASS
Band2	10MHz	64QAM	19150	1RB#24	20.29	20.29	33	PASS
Band2	10MHz	64QAM	19150	1RB#49	20.23	20.23	33	PASS
Band2	10MHz	64QAM	19150	50RB#0	19.21	19.21	33	PASS
Band2	15MHz	QPSK	18675	1RB#0	23.27	23.27	33	PASS
Band2	15MHz	QPSK	18675	1RB#38	23.21	23.21	33	PASS
Band2	15MHz	QPSK	18675	1RB#74	23.18	23.18	33	PASS
Band2	15MHz	QPSK	18675	75RB#0	22.47	22.47	33	PASS
Band2	15MHz	QPSK	18900	1RB#0	23.27	23.27	33	PASS
Band2	15MHz	QPSK	18900	1RB#38	23.35	23.35	33	PASS
Band2	15MHz	QPSK	18900	1RB#74	23.21	23.21	33	PASS
Band2	15MHz	QPSK	18900	75RB#0	22.47	22.47	33	PASS
Band2	15MHz	QPSK	19125	1RB#0	22.72	22.72	33	PASS
Band2	15MHz	QPSK	19125	1RB#38	22.29	22.29	33	PASS
Band2	15MHz	QPSK	19125	1RB#74	22.18	22.18	33	PASS
Band2	15MHz	QPSK	19125	75RB#0	21.29	21.29	33	PASS
Band2	15MHz	16QAM	18675	1RB#0	22.67	22.67	33	PASS
Band2	15MHz	16QAM	18675	1RB#38	22.58	22.58	33	PASS
Band2	15MHz	16QAM	18675	1RB#74	22.58	22.58	33	PASS
Band2	15MHz	16QAM	18675	75RB#0	21.51	21.51	33	PASS



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Band2	15MHz	16QAM	18900	1RB#38	22.54	22.54	33	PASS
Band2	15MHz	16QAM	18900	1RB#74	22.73	22.73	33	PASS
Band2	15MHz	16QAM	18900	75RB#0	21.46	21.46	33	PASS
Band2	15MHz	16QAM	19125	1RB#0	22.03	22.03	33	PASS
Band2	15MHz	16QAM	19125	1RB#38	21.56	21.56	33	PASS
Band2	15MHz	16QAM	19125	1RB#74	21.37	21.37	33	PASS
Band2	15MHz	16QAM	19125	75RB#0	20.61	20.61	33	PASS
Band2	15MHz	64QAM	18675	1RB#0	21.05	21.05	33	PASS
Band2	15MHz	64QAM	18675	1RB#38	20.96	20.96	33	PASS
Band2	15MHz	64QAM	18675	1RB#74	20.77	20.77	33	PASS
Band2	15MHz	64QAM	18675	75RB#0	20.06	20.06	33	PASS
Band2	15MHz	64QAM	18900	1RB#0	21.19	21.19	33	PASS
Band2	15MHz	64QAM	18900	1RB#38	21.19	21.19	33	PASS
Band2	15MHz	64QAM	18900	1RB#74	21.2	21.2	33	PASS
Band2	15MHz	64QAM	18900	75RB#0	20.14	20.14	33	PASS
Band2	15MHz	64QAM	19125	1RB#0	19.81	19.81	33	PASS
Band2	15MHz	64QAM	19125	1RB#38	19.29	19.29	33	PASS
Band2	15MHz	64QAM	19125	1RB#74	19.21	19.21	33	PASS
Band2	15MHz	64QAM	19125	75RB#0	19.2	19.2	33	PASS
Band2	20MHz	QPSK	18700	1RB#0	23.25	23.25	33	PASS
Band2	20MHz	QPSK	18700	1RB#49	23.24	23.24	33	PASS
Band2	20MHz	QPSK	18700	1RB#99	23.26	23.26	33	PASS
Band2	20MHz	QPSK	18700	100RB#0	22.5	22.5	33	PASS
Band2	20MHz	QPSK	18900	1RB#0	23.21	23.21	33	PASS
Band2	20MHz	QPSK	18900	1RB#49	23.26	23.26	33	PASS
Band2	20MHz	QPSK	18900	1RB#99	23.27	23.27	33	PASS
Band2	20MHz	QPSK	18900	100RB#0	22.36	22.36	33	PASS
Band2	20MHz	QPSK	19100	1RB#0	23.24	23.24	33	PASS
Band2	20MHz	QPSK	19100	1RB#49	22.53	22.53	33	PASS
Band2	20MHz	QPSK	19100	1RB#99	22.35	22.35	33	PASS
Band2	20MHz	QPSK	19100	100RB#0	21.55	21.55	33	PASS
Band2	20MHz	16QAM	18700	1RB#0	22.67	22.67	33	PASS



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Band2	20MHz	16QAM	18700	1RB#49	22.52	22.52	33	PASS
Band2	20MHz	16QAM	18700	1RB#99	22.65	22.65	33	PASS
Band2	20MHz	16QAM	18700	100RB#0	21.44	21.44	33	PASS
Band2	20MHz	16QAM	18900	1RB#0	22.52	22.52	33	PASS
Band2	20MHz	16QAM	18900	1RB#49	22.67	22.67	33	PASS
Band2	20MHz	16QAM	18900	1RB#99	22.59	22.59	33	PASS
Band2	20MHz	16QAM	18900	100RB#0	21.44	21.44	33	PASS
Band2	20MHz	16QAM	19100	1RB#0	22.5	22.5	33	PASS
Band2	20MHz	16QAM	19100	1RB#49	21.72	21.72	33	PASS
Band2	20MHz	16QAM	19100	1RB#99	21.48	21.48	33	PASS
Band2	20MHz	16QAM	19100	100RB#0	20.45	20.45	33	PASS
Band2	20MHz	64QAM	18700	1RB#0	21.48	21.48	33	PASS
Band2	20MHz	64QAM	18700	1RB#49	20.86	20.86	33	PASS
Band2	20MHz	64QAM	18700	1RB#99	20.61	20.61	33	PASS
Band2	20MHz	64QAM	18700	100RB#0	19.92	19.92	33	PASS
Band2	20MHz	64QAM	18900	1RB#0	21.02	21.02	33	PASS
Band2	20MHz	64QAM	18900	1RB#49	20.96	20.96	33	PASS
Band2	20MHz	64QAM	18900	1RB#99	21.05	21.05	33	PASS
Band2	20MHz	64QAM	18900	100RB#0	19.93	19.93	33	PASS
Band2	20MHz	64QAM	19100	1RB#0	20.6	20.6	33	PASS
Band2	20MHz	64QAM	19100	1RB#49	19.61	19.61	33	PASS
Band2	20MHz	64QAM	19100	1RB#99	19.38	19.38	33	PASS
Band2	20MHz	64QAM	19100	100RB#0	19.11	19.11	33	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band2	20MHz	QPSK	18700	100RB#0	4.78	13	PASS
Band2	20MHz	QPSK	18900	100RB#0	5.20	13	PASS
Band2	20MHz	QPSK	19100	100RB#0	5.48	13	PASS
Band2	20MHz	16QAM	18700	100RB#0	6.24	13	PASS
Band2	20MHz	16QAM	18900	100RB#0	5.86	13	PASS
Band2	20MHz	16QAM	19100	100RB#0	6.22	13	PASS
Band2	20MHz	64QAM	18700	100RB#0	6.76	13	PASS
Band2	20MHz	64QAM	18900	100RB#0	6.72	13	PASS
Band2	20MHz	64QAM	19100	100RB#0	6.86	13	PASS



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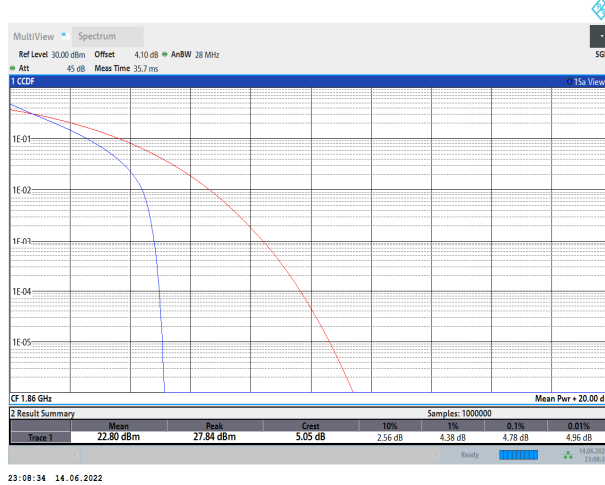
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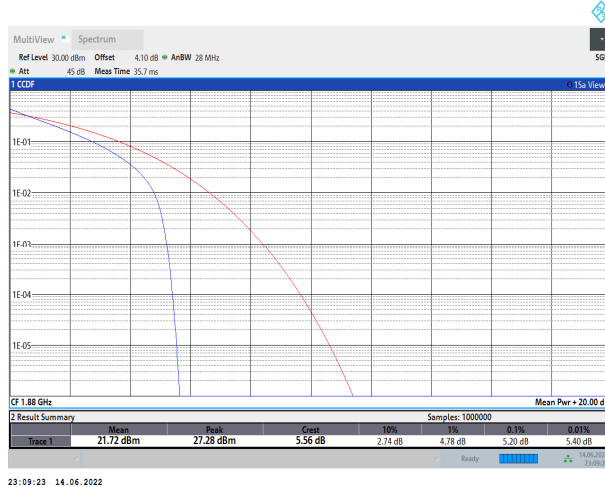


Test Graphs

Band2-20MHz-QPSK-18700-100RB#0



Band2-20MHz-QPSK-18900-100RB#0



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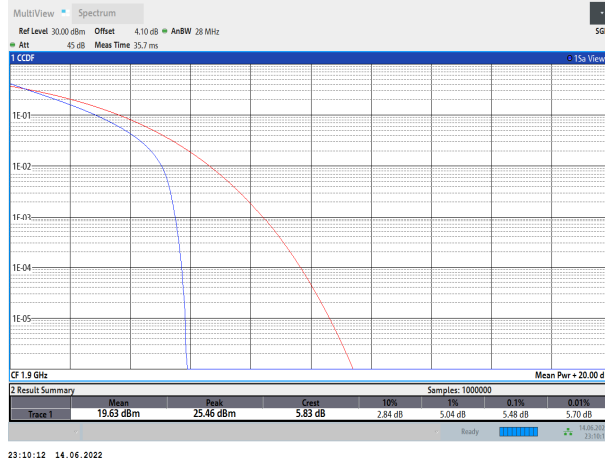


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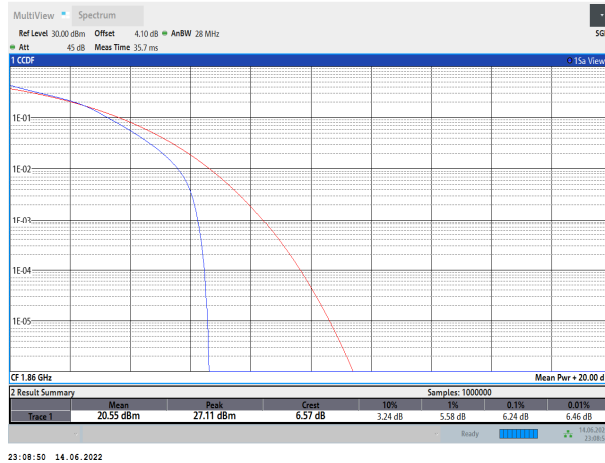
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Band2-20MHz-QPSK-19100-100RB#0



Band2-20MHz-16QAM-18700-100RB#0



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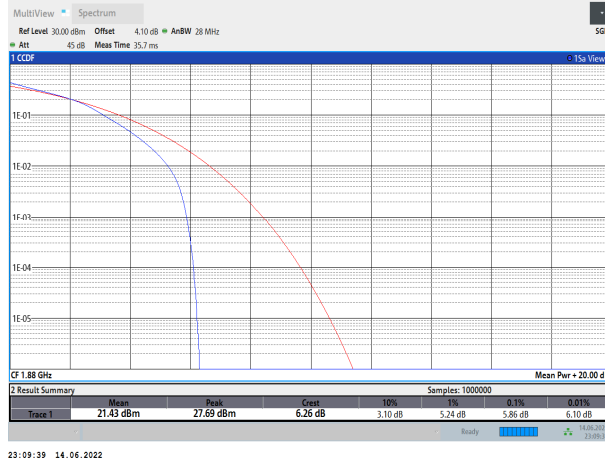


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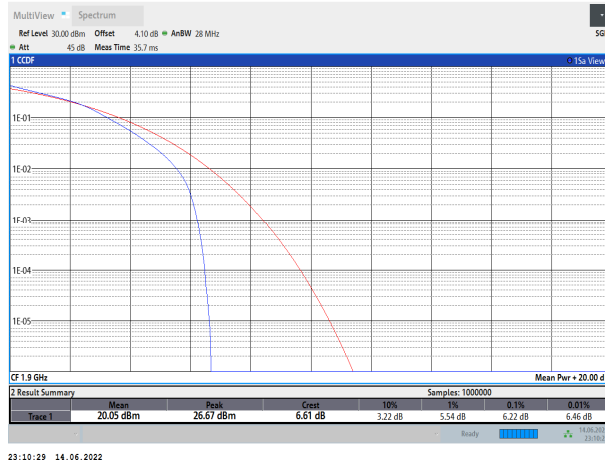
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Band2-20MHz-16QAM-18900-100RB#0



Band2-20MHz-16QAM-19100-100RB#0



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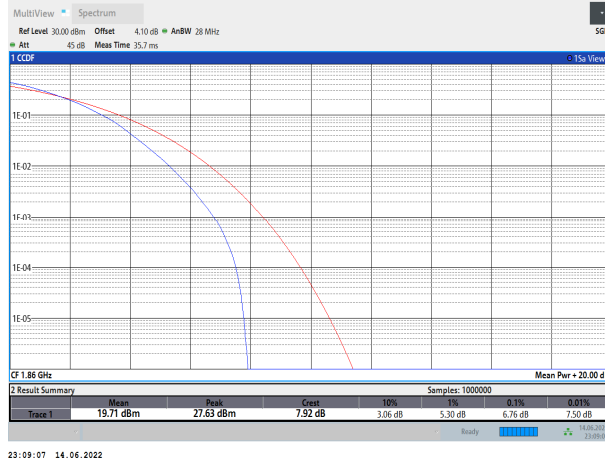
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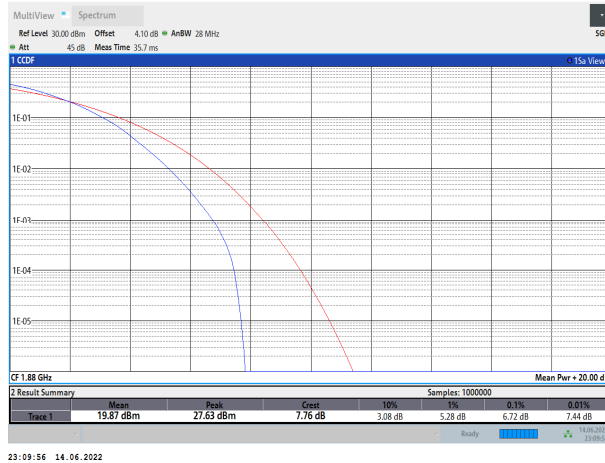
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Band2-20MHz-64QAM-18700-100RB#0



Band2-20MHz-64QAM-18900-100RB#0



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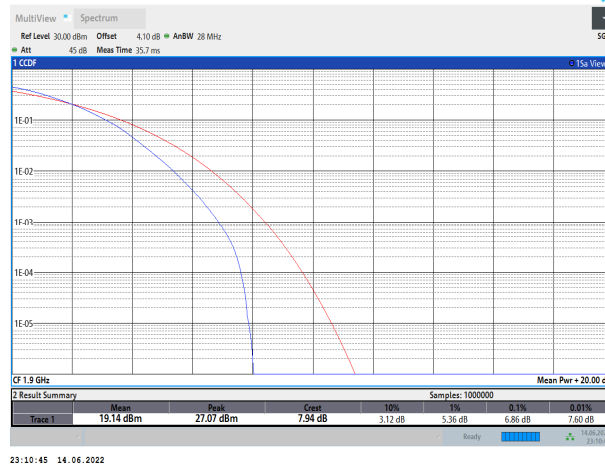


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Band2-20MHz-64QAM-19100-100RB#0



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Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band2	20MHz	QPSK	18900	100RB#0	PASS	PASS
Band2	20MHz	16QAM	18900	100RB#0	PASS	PASS
Band2	20MHz	64QAM	18900	100RB#0	PASS	PASS



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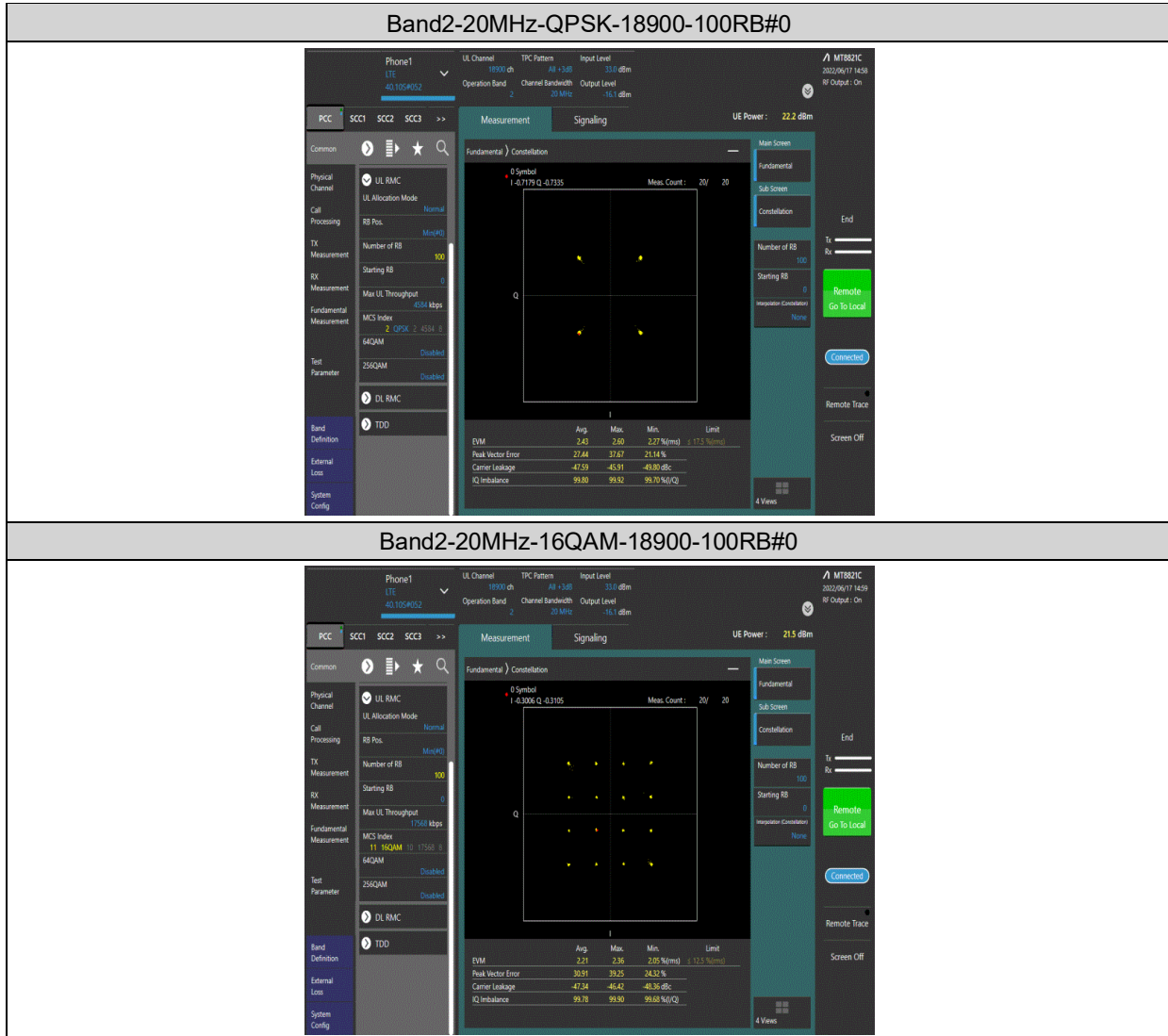
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Test Graphs



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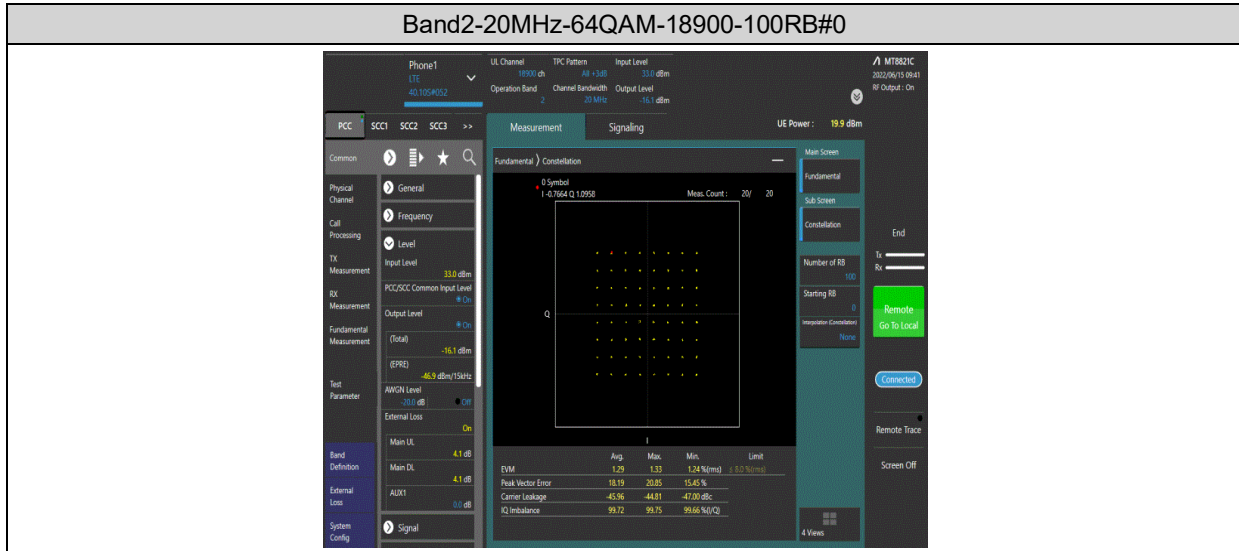
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Band2-20MHz-64QAM-18900-100RB#0



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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band2	1.4MHz	QPSK	18607	6RB#0	1.084	1.24	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	1.084	1.23	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	1.084	1.23	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	1.092	1.24	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	1.092	1.24	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	1.092	1.24	PASS
Band2	1.4MHz	64QAM	18607	6RB#0	1.091	1.24	PASS
Band2	1.4MHz	64QAM	18900	6RB#0	1.091	1.24	PASS
Band2	1.4MHz	64QAM	19193	6RB#0	1.090	1.24	PASS
Band2	3MHz	QPSK	18615	15RB#0	2.695	2.98	PASS
Band2	3MHz	QPSK	18900	15RB#0	2.690	2.97	PASS
Band2	3MHz	QPSK	19185	15RB#0	2.695	2.98	PASS
Band2	3MHz	16QAM	18615	15RB#0	2.688	2.99	PASS
Band2	3MHz	16QAM	18900	15RB#0	2.686	2.99	PASS
Band2	3MHz	16QAM	19185	15RB#0	2.687	2.99	PASS
Band2	3MHz	64QAM	18615	15RB#0	2.688	2.96	PASS
Band2	3MHz	64QAM	18900	15RB#0	2.688	2.98	PASS
Band2	3MHz	64QAM	19185	15RB#0	2.691	2.98	PASS
Band2	5MHz	QPSK	18625	25RB#0	4.468	4.88	PASS
Band2	5MHz	QPSK	18900	25RB#0	4.469	4.87	PASS
Band2	5MHz	QPSK	19175	25RB#0	4.469	4.88	PASS
Band2	5MHz	16QAM	18625	25RB#0	4.464	4.92	PASS
Band2	5MHz	16QAM	18900	25RB#0	4.469	4.91	PASS
Band2	5MHz	16QAM	19175	25RB#0	4.464	4.89	PASS
Band2	5MHz	64QAM	18625	25RB#0	4.475	4.90	PASS
Band2	5MHz	64QAM	18900	25RB#0	4.475	4.90	PASS
Band2	5MHz	64QAM	19175	25RB#0	4.478	4.88	PASS
Band2	10MHz	QPSK	18650	50RB#0	8.921	9.70	PASS
Band2	10MHz	QPSK	18900	50RB#0	8.935	9.62	PASS
Band2	10MHz	QPSK	19150	50RB#0	8.909	9.64	PASS
Band2	10MHz	16QAM	18650	50RB#0	8.905	9.60	PASS



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Band2	10MHz	16QAM	18900	50RB#0	8.918	9.62	PASS
Band2	10MHz	16QAM	19150	50RB#0	8.910	9.60	PASS
Band2	10MHz	64QAM	18650	50RB#0	8.914	9.60	PASS
Band2	10MHz	64QAM	18900	50RB#0	8.923	9.64	PASS
Band2	10MHz	64QAM	19150	50RB#0	8.918	9.66	PASS
Band2	15MHz	QPSK	18675	75RB#0	13.453	14.76	PASS
Band2	15MHz	QPSK	18900	75RB#0	13.476	15.51	PASS
Band2	15MHz	QPSK	19125	75RB#0	13.498	16.62	PASS
Band2	15MHz	16QAM	18675	75RB#0	13.451	14.76	PASS
Band2	15MHz	16QAM	18900	75RB#0	13.467	14.70	PASS
Band2	15MHz	16QAM	19125	75RB#0	13.455	15.87	PASS
Band2	15MHz	64QAM	18675	75RB#0	13.412	14.82	PASS
Band2	15MHz	64QAM	18900	75RB#0	13.432	14.79	PASS
Band2	15MHz	64QAM	19125	75RB#0	13.447	14.76	PASS
Band2	20MHz	QPSK	18700	100RB#0	17.901	19.44	PASS
Band2	20MHz	QPSK	18900	100RB#0	17.928	19.52	PASS
Band2	20MHz	QPSK	19100	100RB#0	17.917	19.32	PASS
Band2	20MHz	16QAM	18700	100RB#0	17.859	19.40	PASS
Band2	20MHz	16QAM	18900	100RB#0	17.905	19.44	PASS
Band2	20MHz	16QAM	19100	100RB#0	17.872	19.36	PASS
Band2	20MHz	64QAM	18700	100RB#0	17.835	19.48	PASS
Band2	20MHz	64QAM	18900	100RB#0	17.877	19.40	PASS
Band2	20MHz	64QAM	19100	100RB#0	17.885	19.56	PASS



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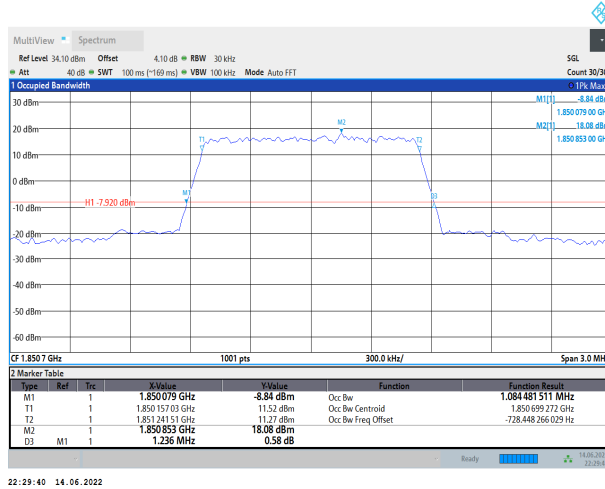
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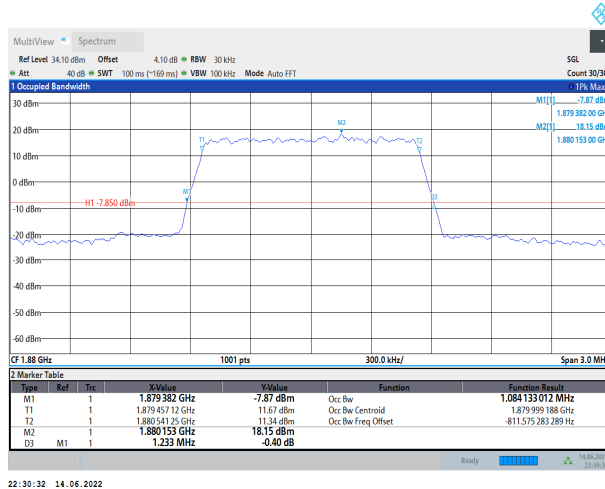


Test Graphs

Band2-1.4MHz-QPSK-18607-6RB#0



Band2-1.4MHz-QPSK-18900-6RB#0



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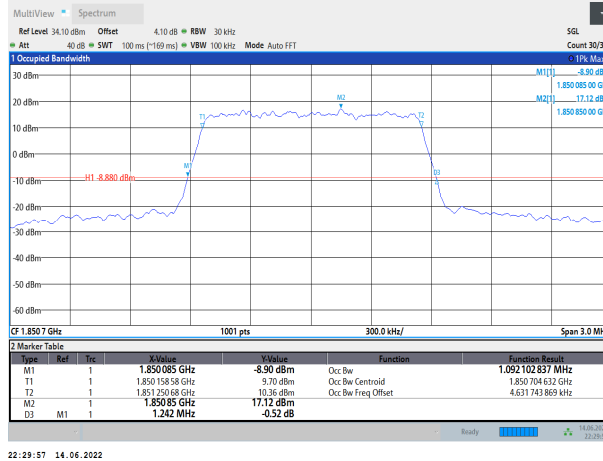
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Band2-1.4MHz-QPSK-19193-6RB#0



Band2-1.4MHz-16QAM-18607-6RB#0



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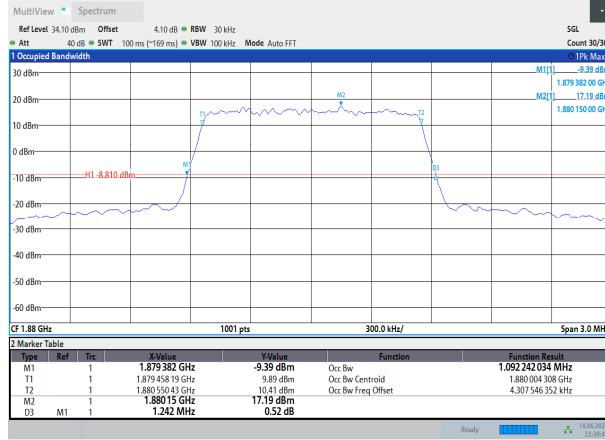


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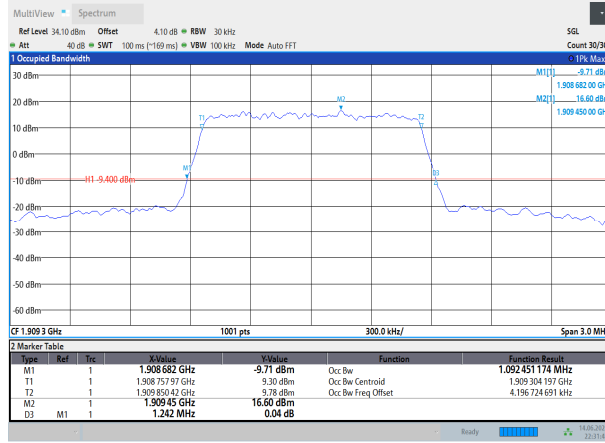
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Band2-1.4MHz-16QAM-18900-6RB#0



Band2-1.4MHz-16QAM-19193-6RB#0



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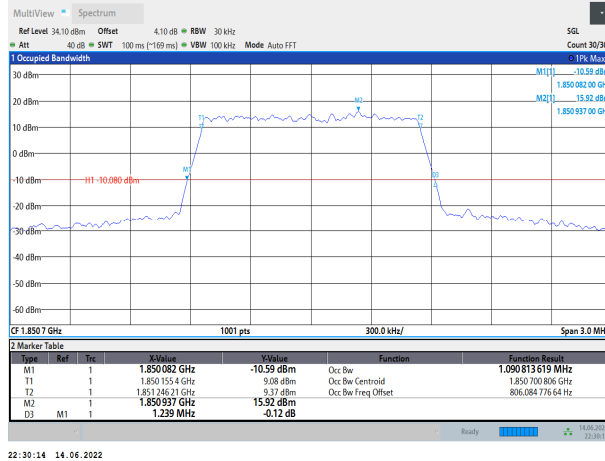


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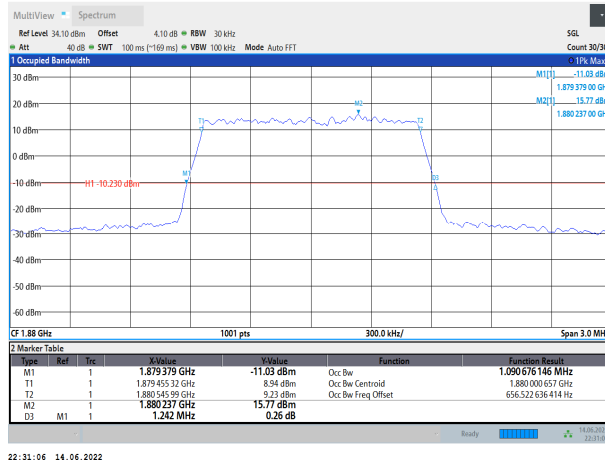
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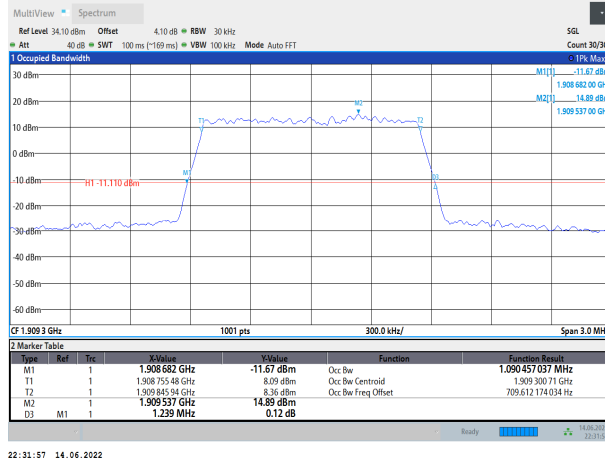


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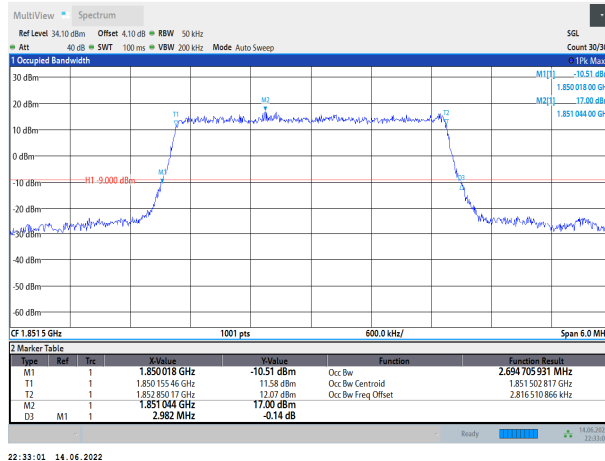
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Band2-3MHz-QPSK-18615-15RB#0



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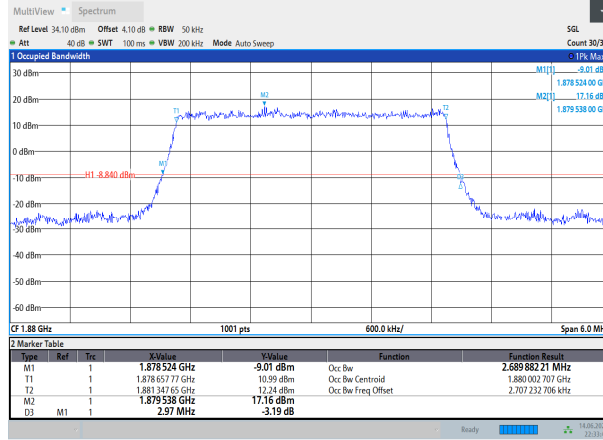


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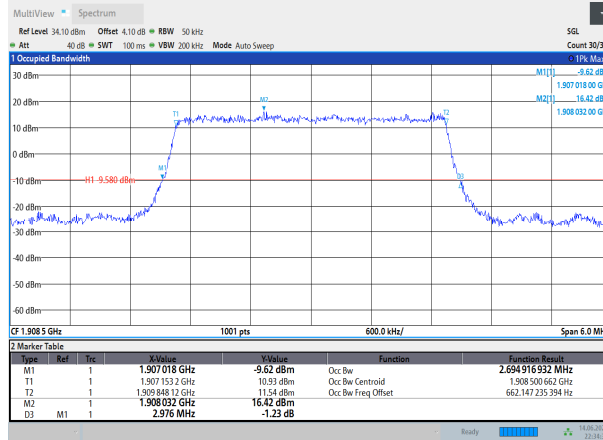
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Band2-3MHz-QPSK-19185-15RB#0



22:34:37 14.06.2022



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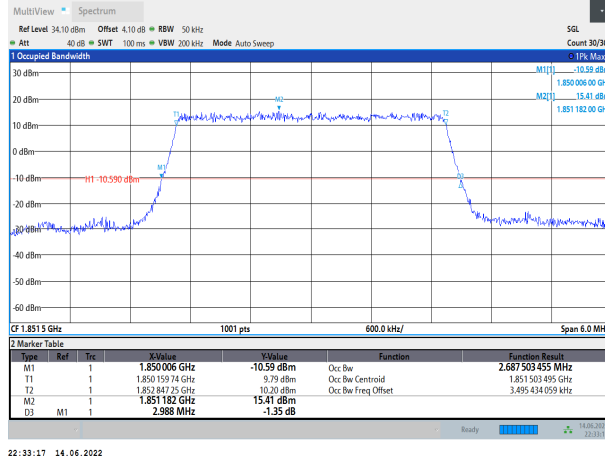
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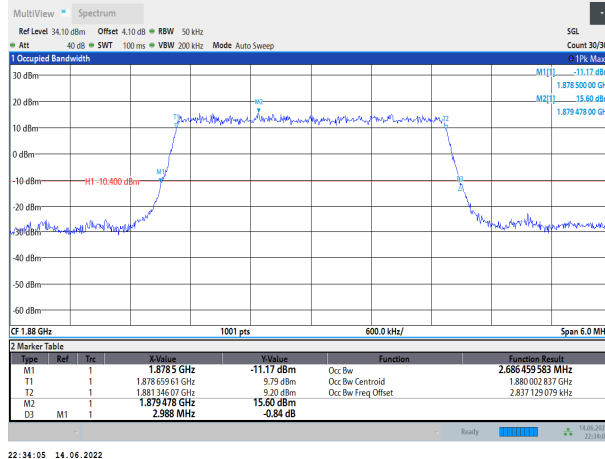
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Band2-3MHz-16QAM-18615-15RB#0



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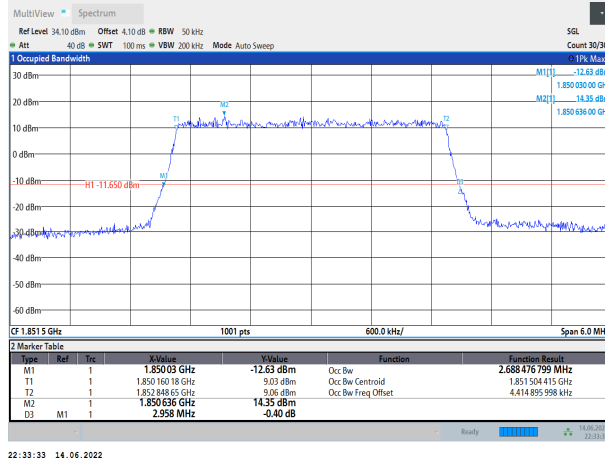
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Band2-3MHz-16QAM-19185-15RB#0



Band2-3MHz-64QAM-18615-15RB#0



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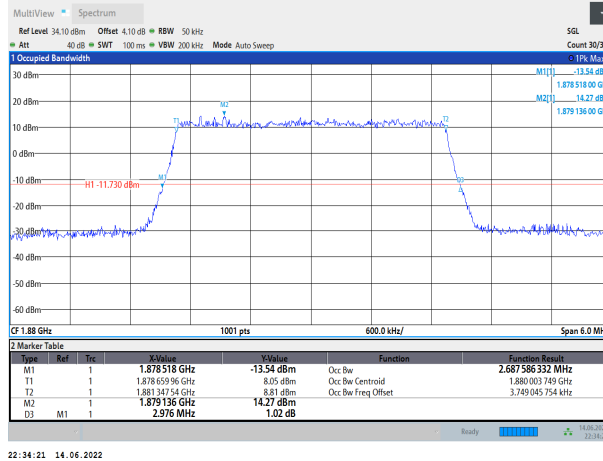
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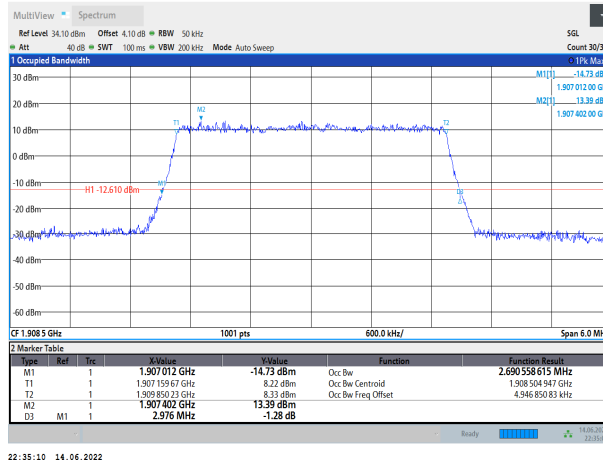
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Band2-3MHz-64QAM-18900-15RB#0



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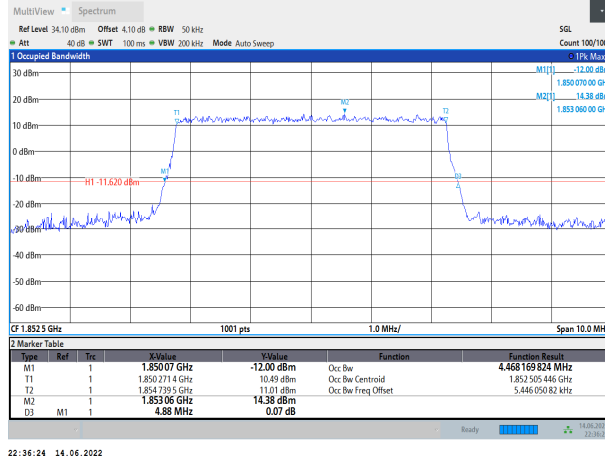


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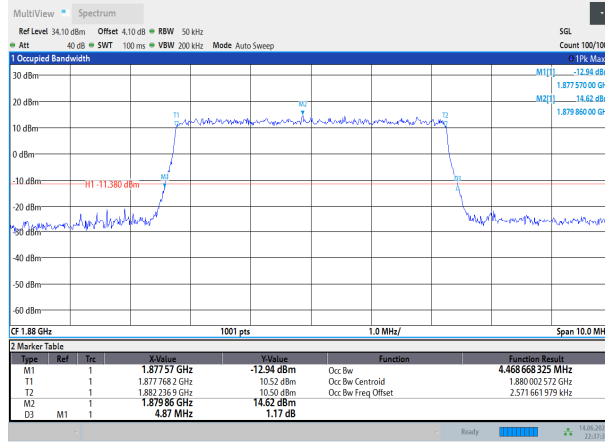
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Band2-5MHz-QPSK-18625-25RB#0



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Band2-5MHz-QPSK-18900-25RB#0



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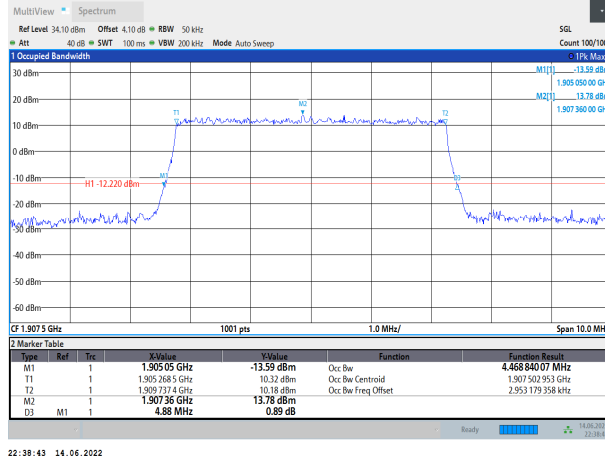
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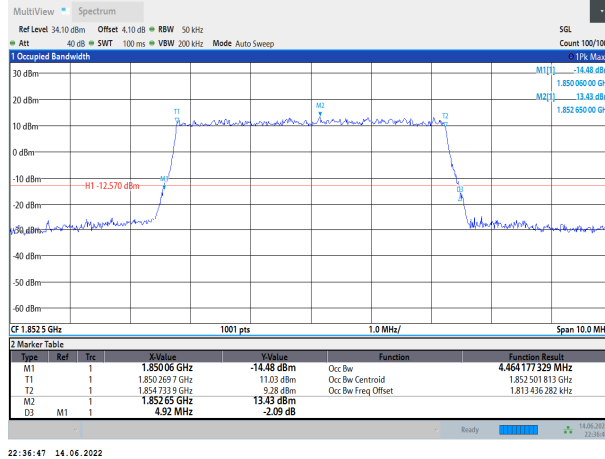
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Band2-5MHz-QPSK-19175-25RB#0



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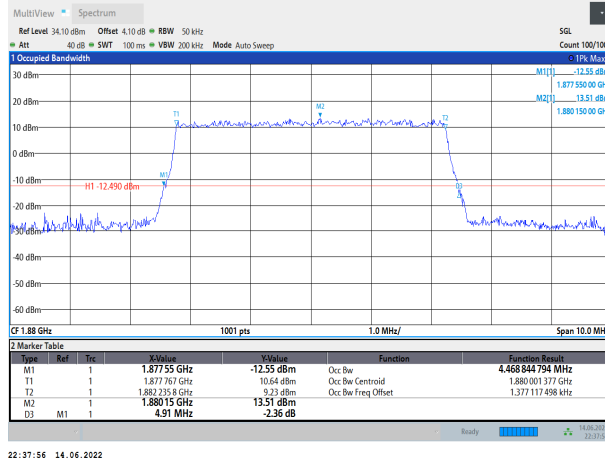


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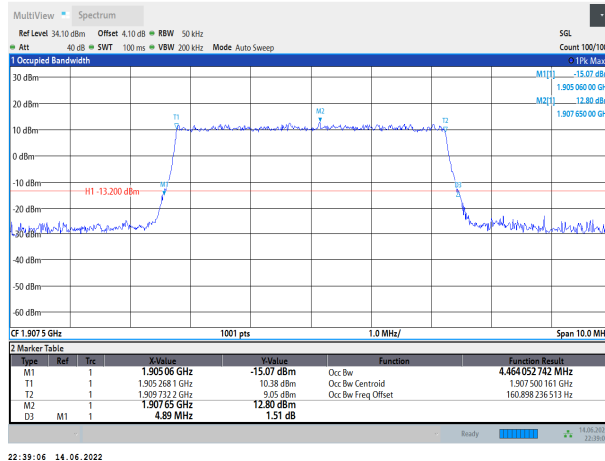
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Band2-5MHz-16QAM-19175-25RB#0



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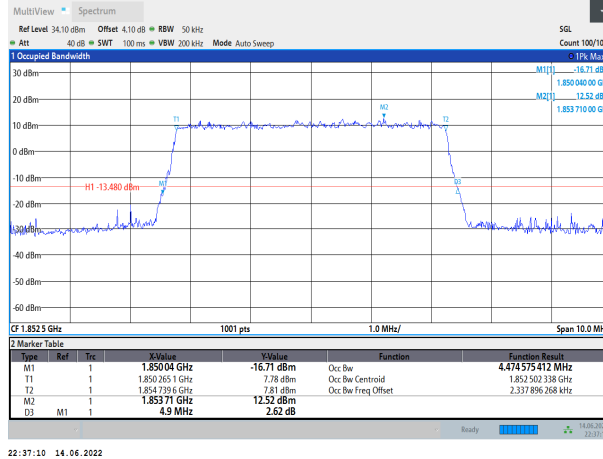


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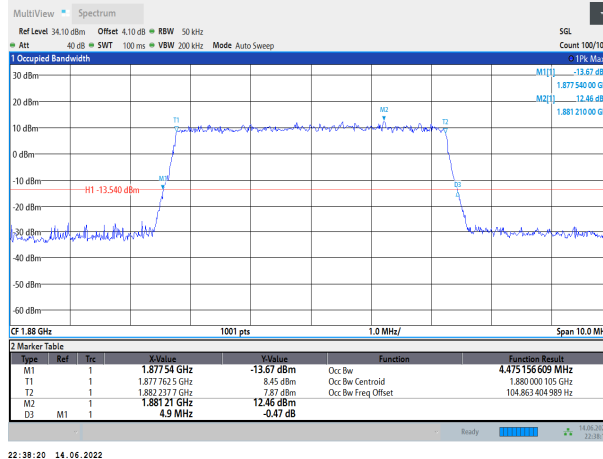
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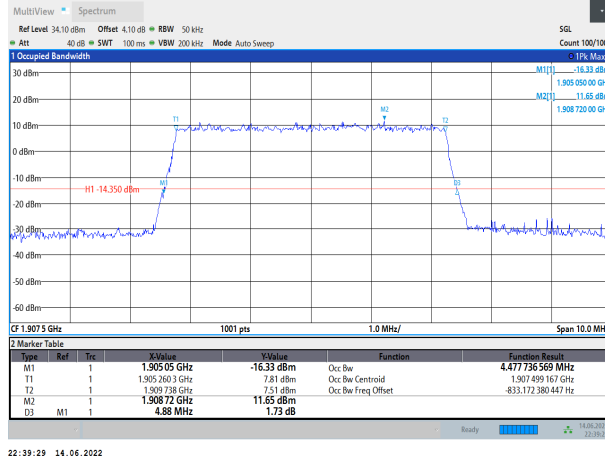


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Band2-10MHz-QPSK-18650-50RB#0



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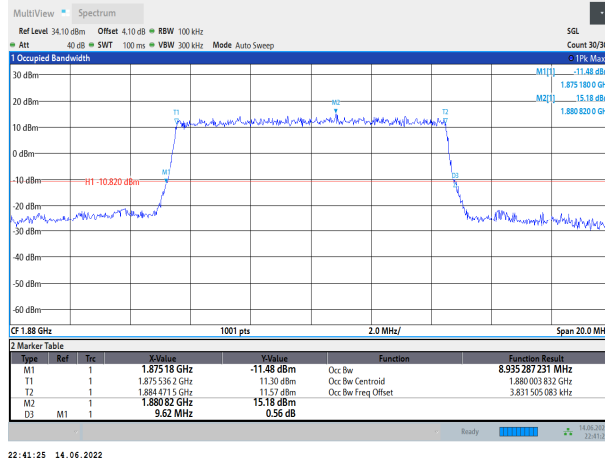


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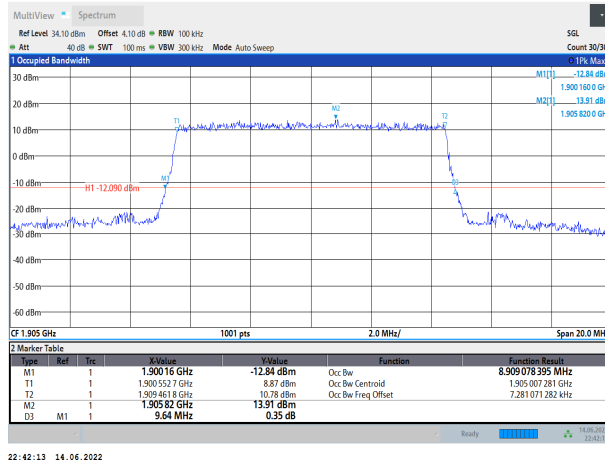
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Band2-10MHz-QPSK-19150-50RB#0



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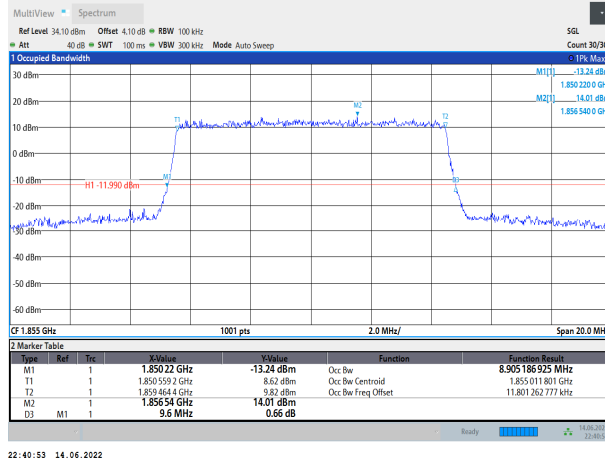


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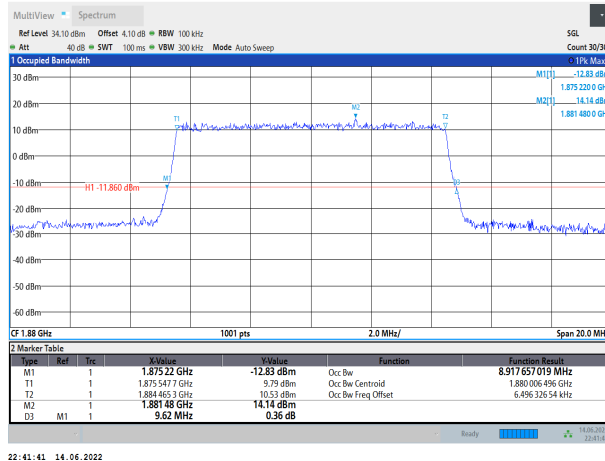
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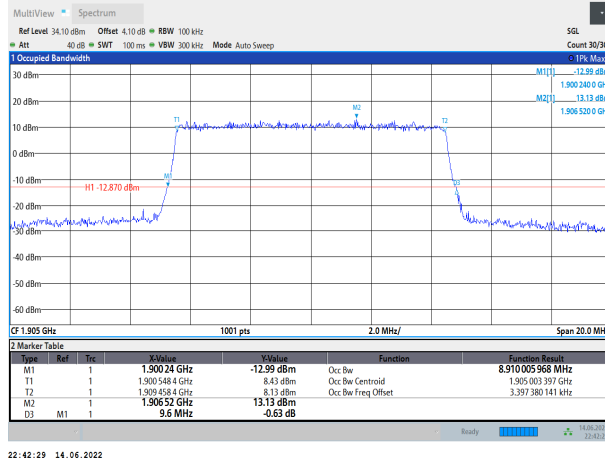
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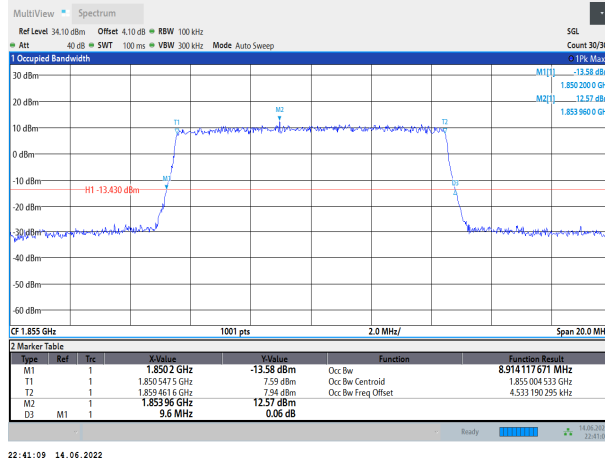
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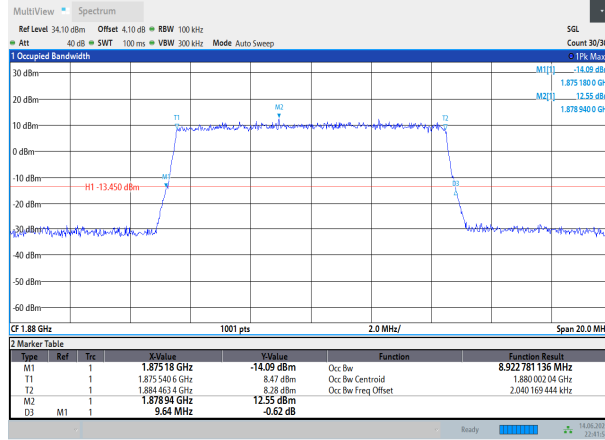


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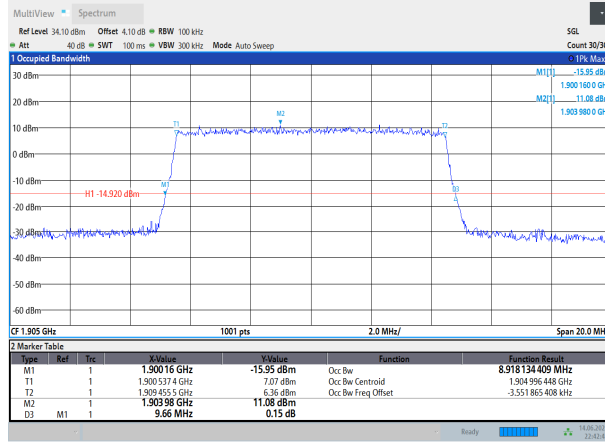
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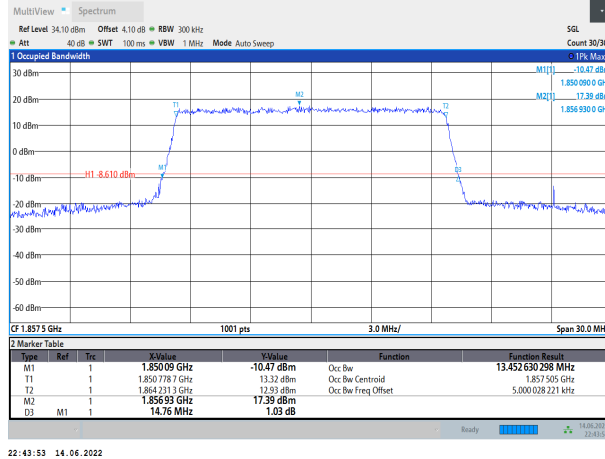


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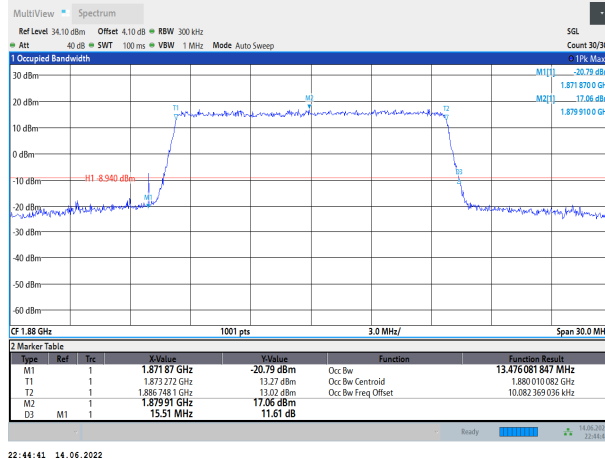
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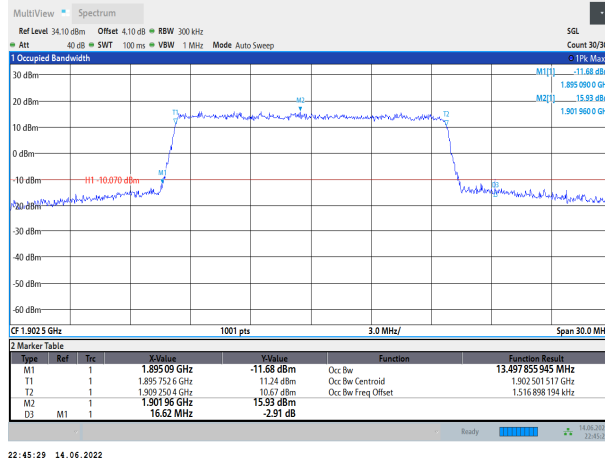


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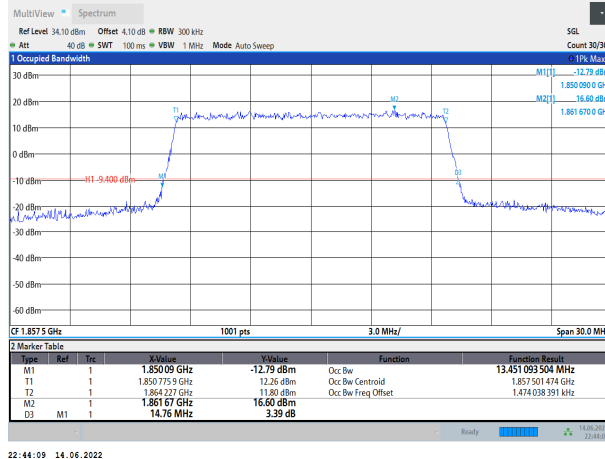
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Band2-15MHz-QPSK-19125-75RB#0



Band2-15MHz-16QAM-18675-75RB#0



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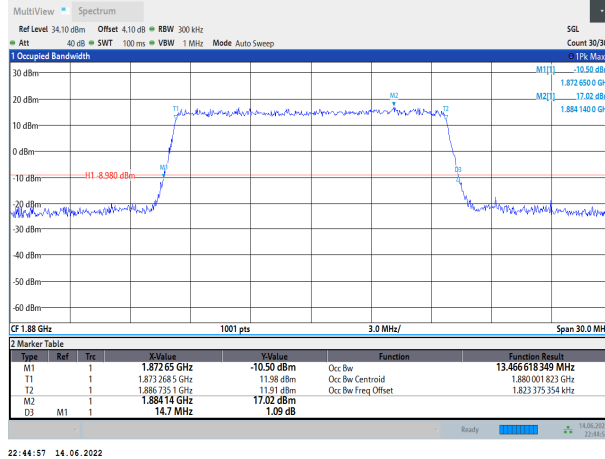


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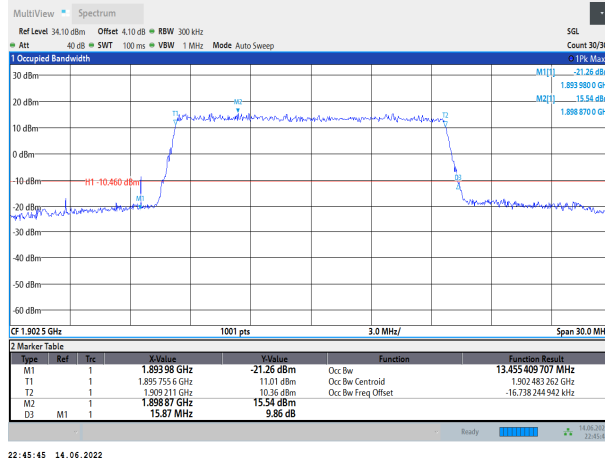
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Band2-15MHz-16QAM-18900-75RB#0



Band2-15MHz-16QAM-19125-75RB#0



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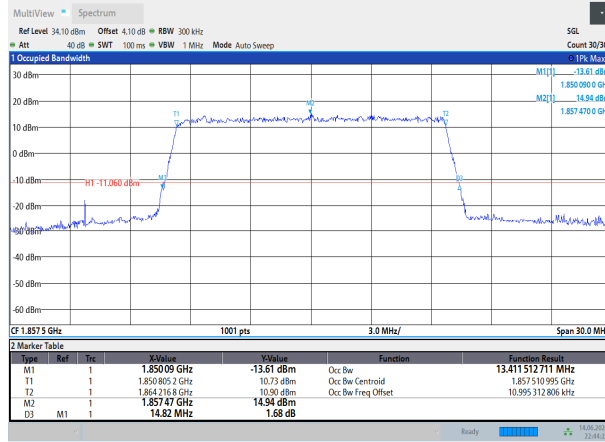


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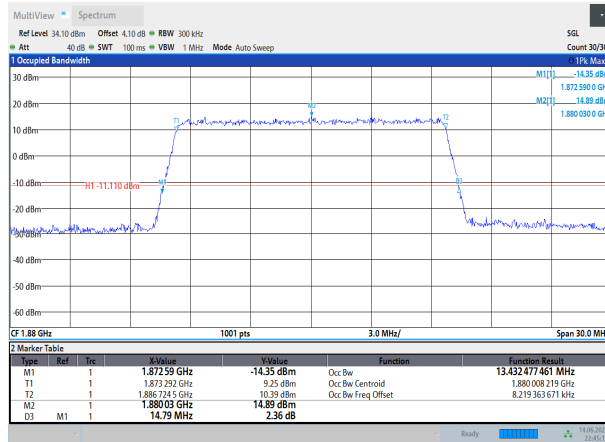
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Band2-15MHz-64QAM-18675-75RB#0



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Band2-15MHz-64QAM-18900-75RB#0



22:45:13 14.06.2022



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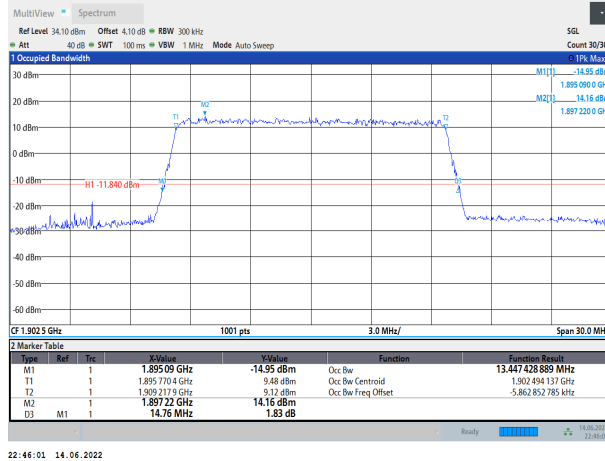


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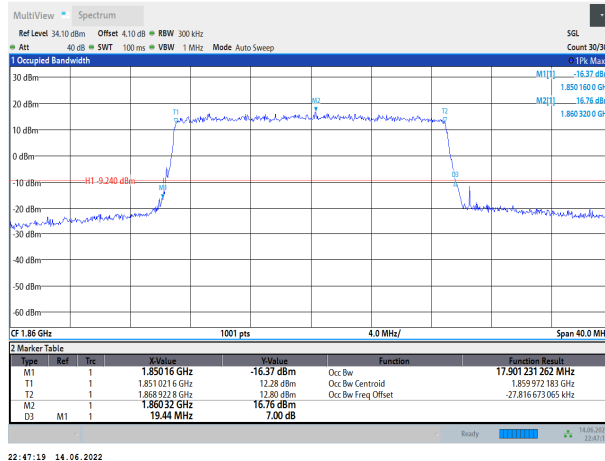
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Band2-15MHz-64QAM-19125-75RB#0



Band2-20MHz-QPSK-18700-100RB#0



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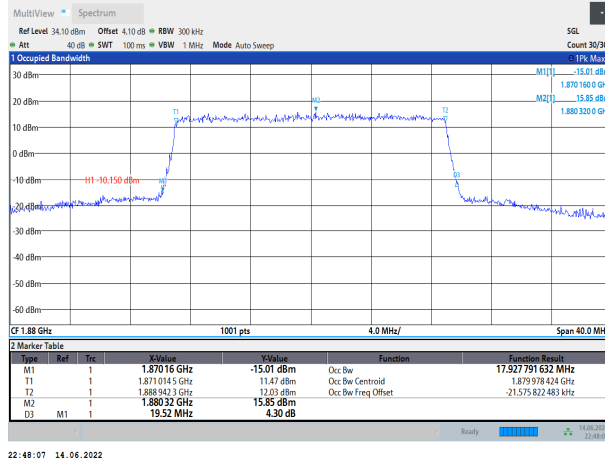


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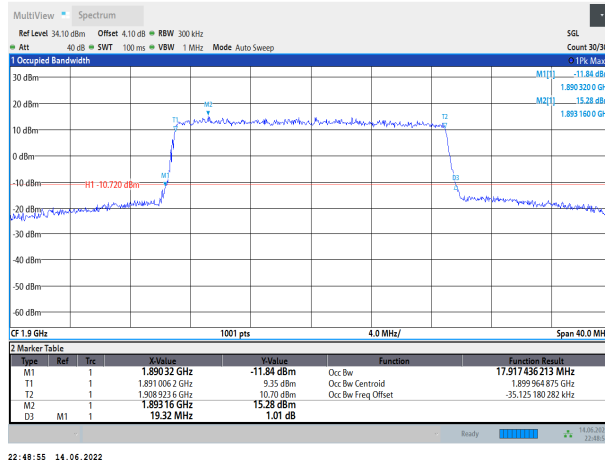
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Band2-20MHz-QPSK-18900-100RB#0



Band2-20MHz-QPSK-19100-100RB#0



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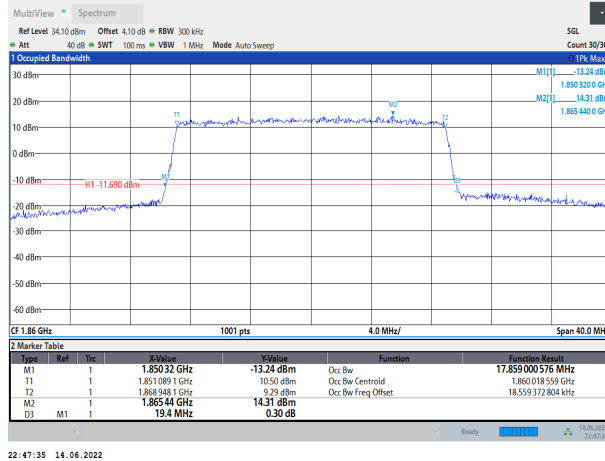


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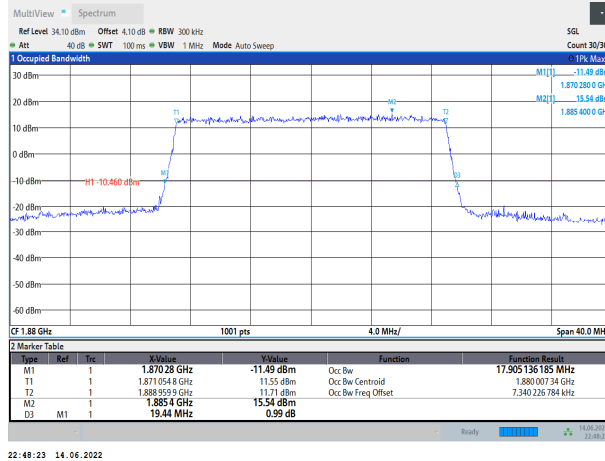
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Band2-20MHz-16QAM-18700-100RB#0



Band2-20MHz-16QAM-18900-100RB#0



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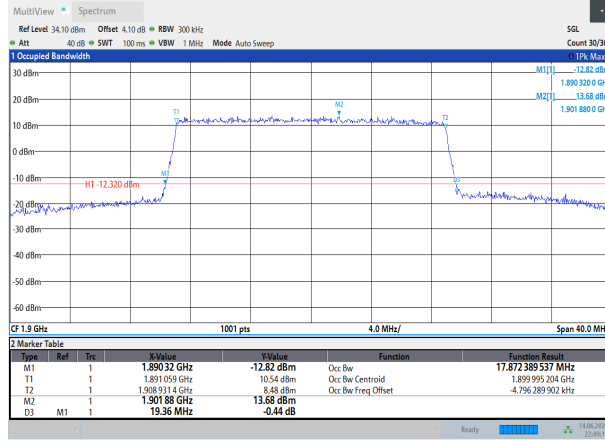


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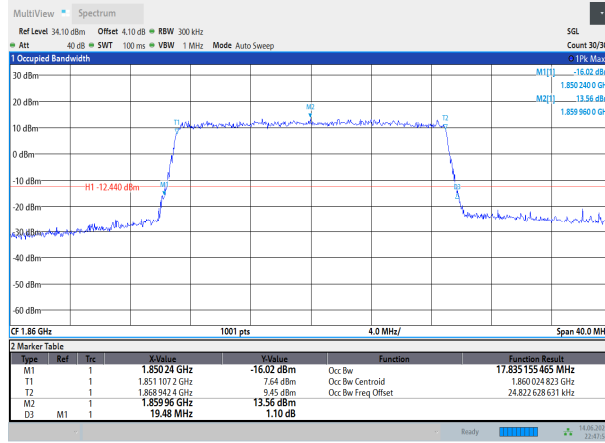
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Band2-20MHz-16QAM-19100-100RB#0



Band2-20MHz-64QAM-18700-100RB#0



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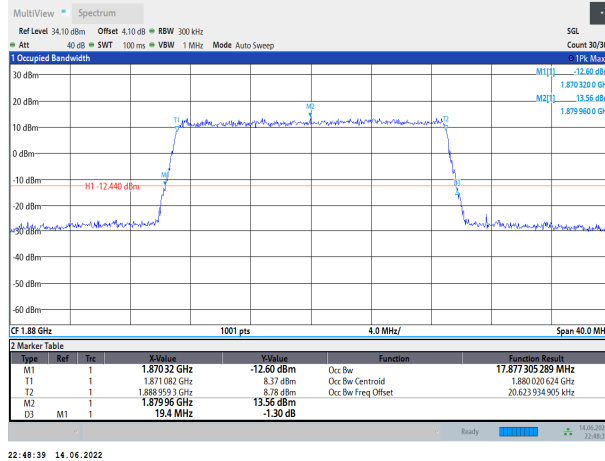


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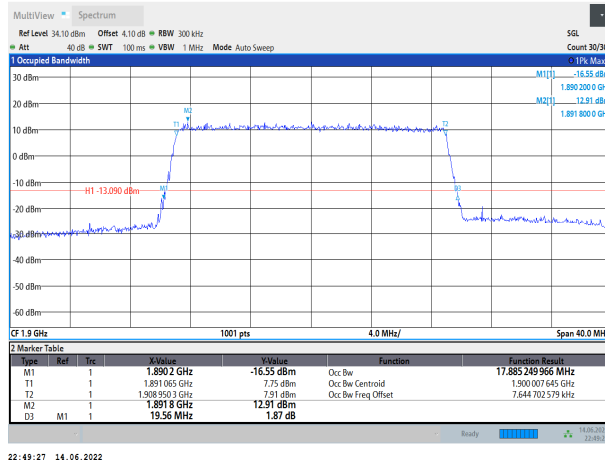
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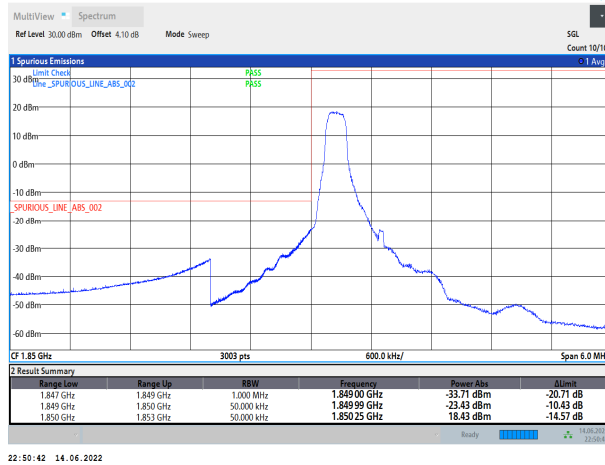
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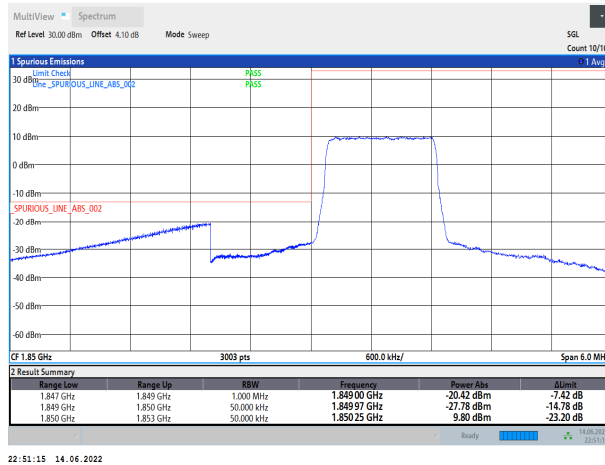
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Test Graphs

Band2-1.4MHz-QPSK-18607-1RB#0



Band2-1.4MHz-QPSK-18607-6RB#0



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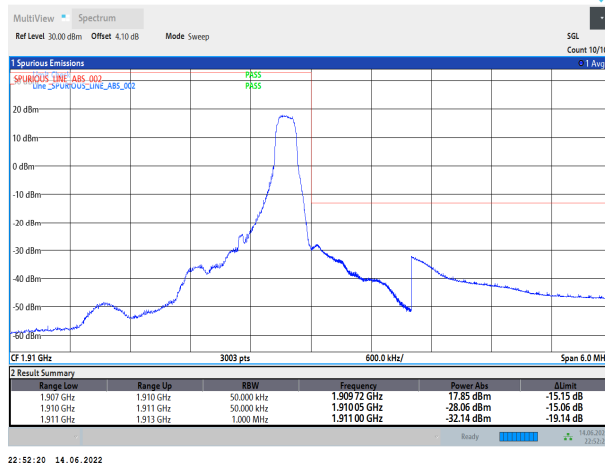


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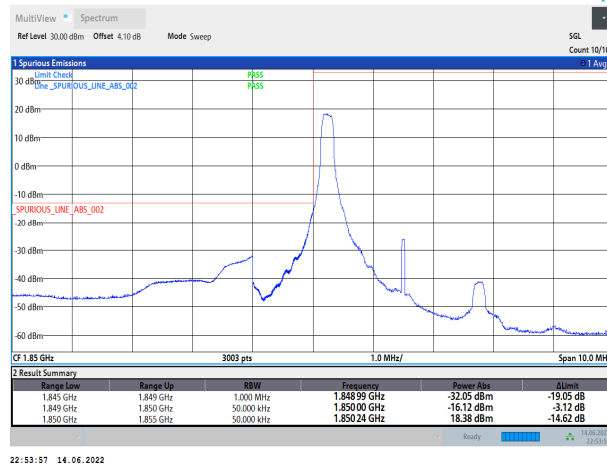


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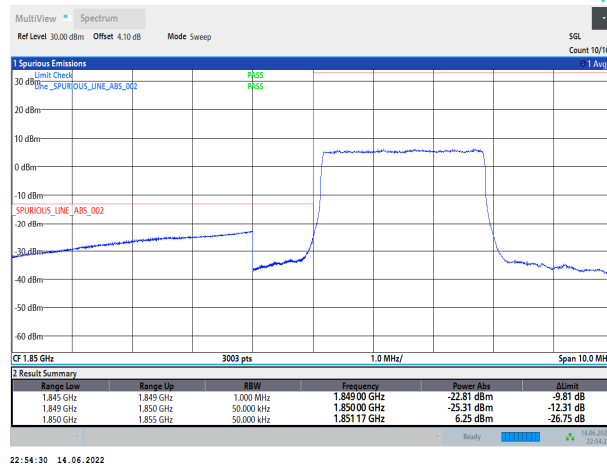
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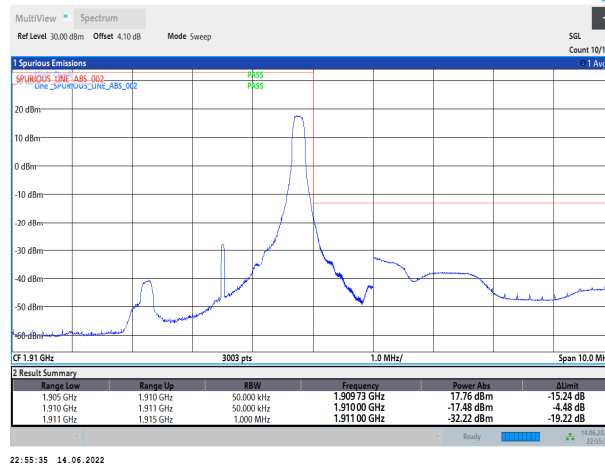
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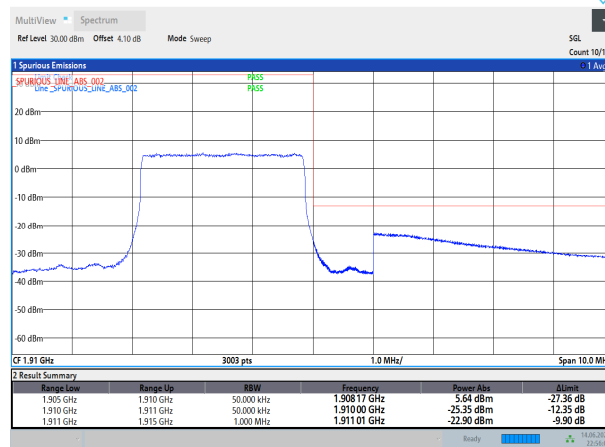
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Band2-3MHz-QPSK-19185-1RB#14



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Band2-3MHz-QPSK-19185-15RB#0



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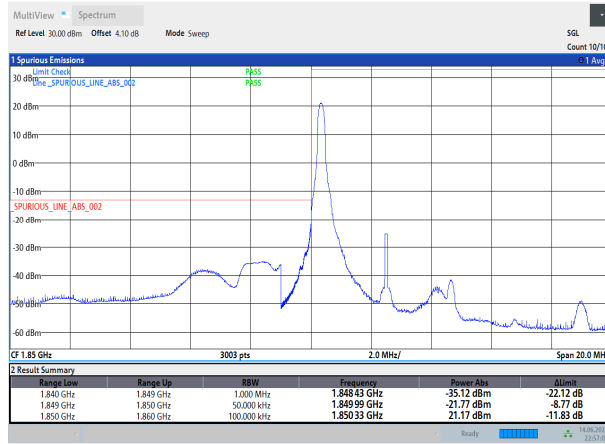


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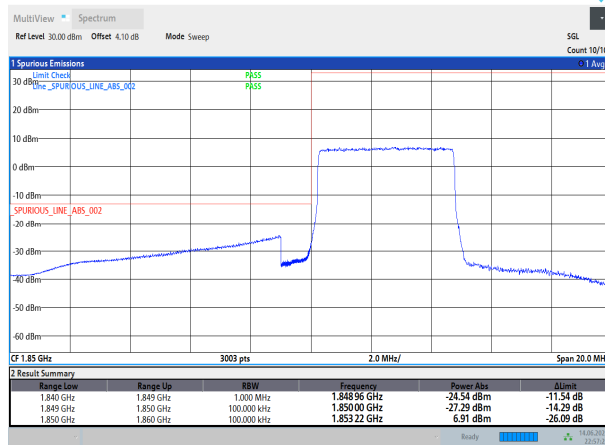
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Band2-5MHz-QPSK-18625-1RB#0



22:57:04 14.06.2022

Band2-5MHz-QPSK-18625-25RB#0



22:57:27 14.06.2022



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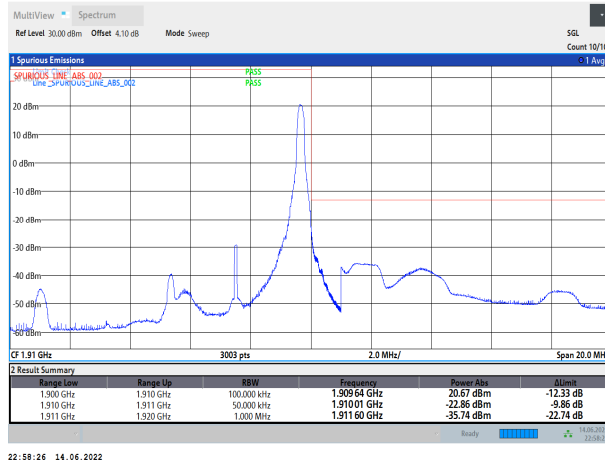


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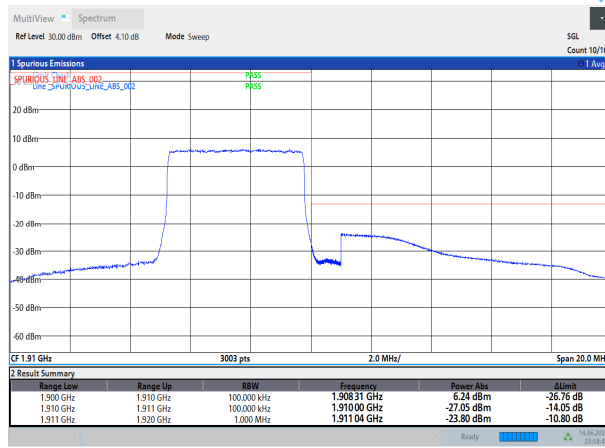
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Band2-5MHz-QPSK-19175-1RB#24



22:58:26 14.06.2022

Band2-5MHz-QPSK-19175-25RB#0



22:58:50 14.06.2022



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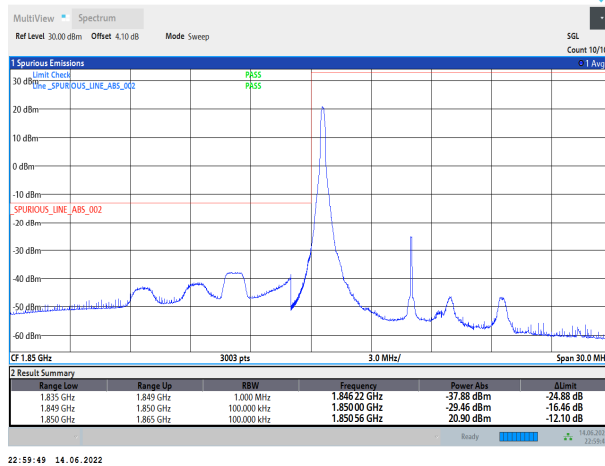


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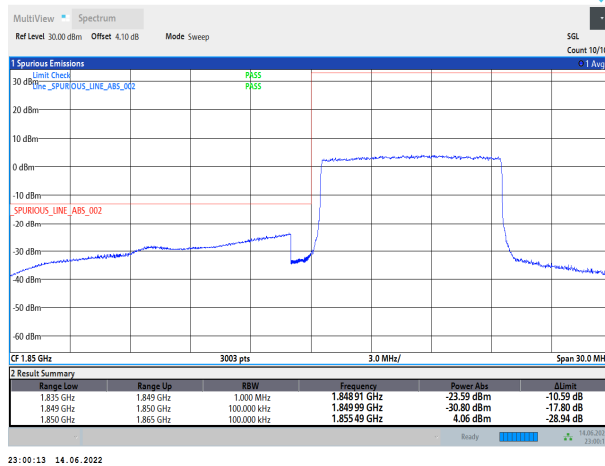
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Band2-10MHz-QPSK-18650-1RB#0



Band2-10MHz-QPSK-18650-50RB#0



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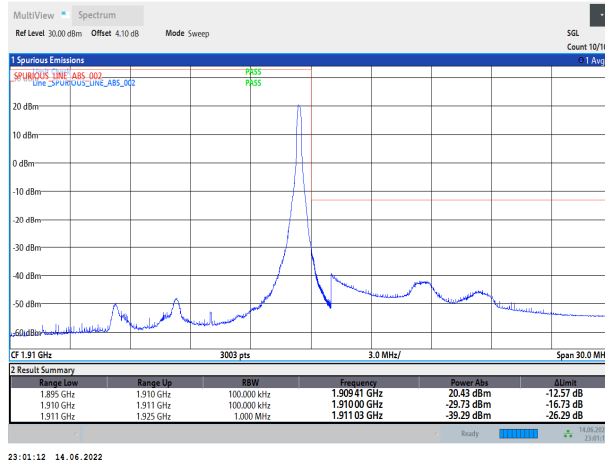
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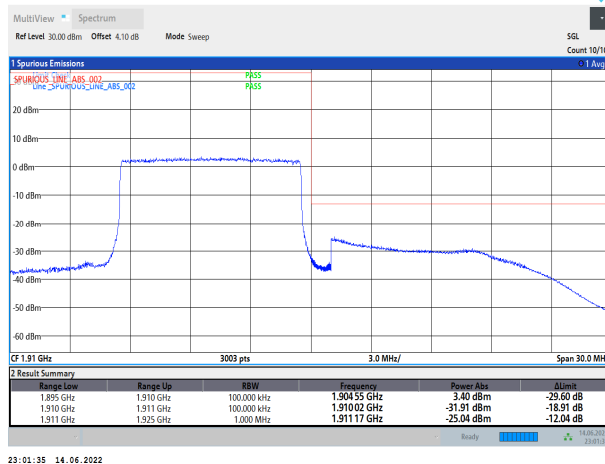
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Band2-10MHz-QPSK-19150-1RB#49



Band2-10MHz-QPSK-19150-50RB#0



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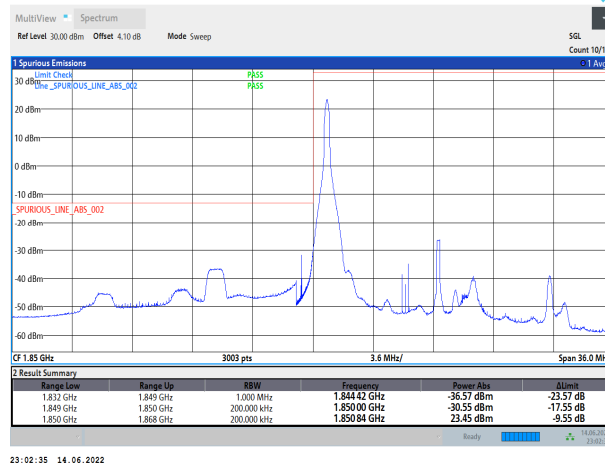


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Band2-15MHz-QPSK-18675-1RB#0



Band2-15MHz-QPSK-18675-75RB#0



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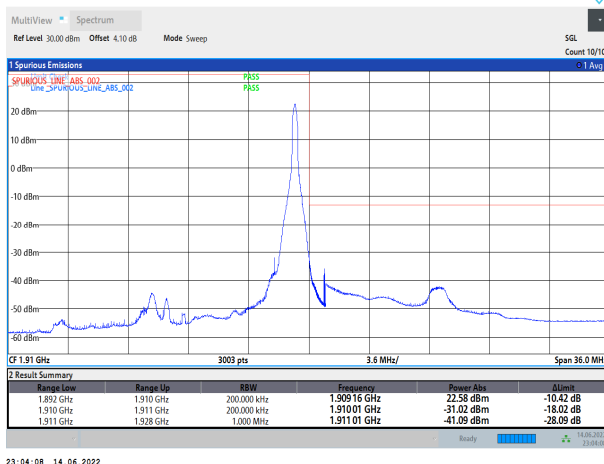
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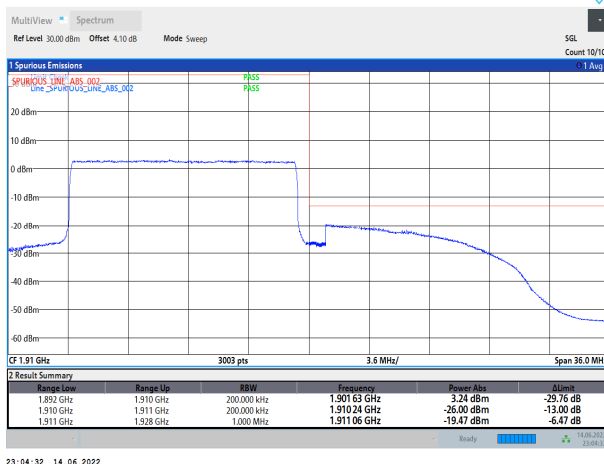
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Band2-15MHz-QPSK-19125-1RB#74



Band2-15MHz-QPSK-19125-75RB#0



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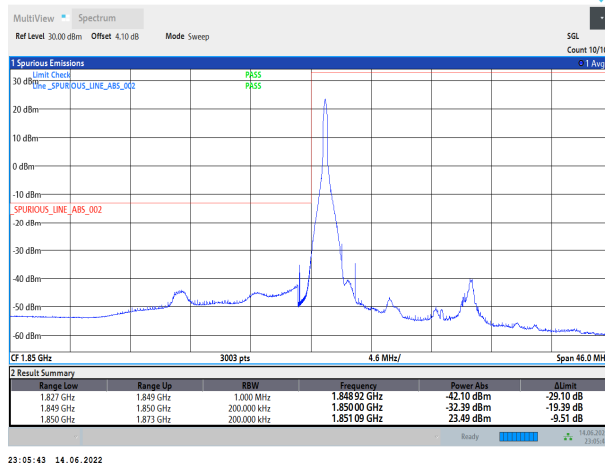


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Band2-20MHz-QPSK-18700-1RB#0



Band2-20MHz-QPSK-18700-100RB#0



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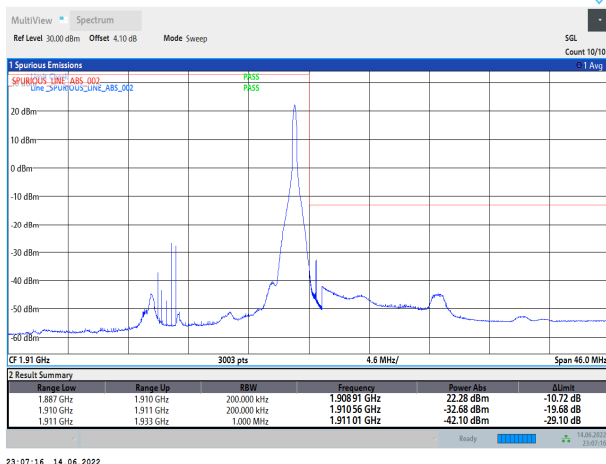


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Band2-20MHz-QPSK-19100-1RB#99



Band2-20MHz-QPSK-19100-100RB#0



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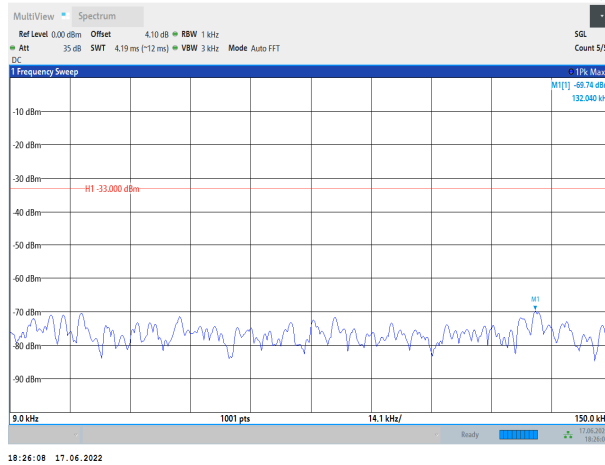
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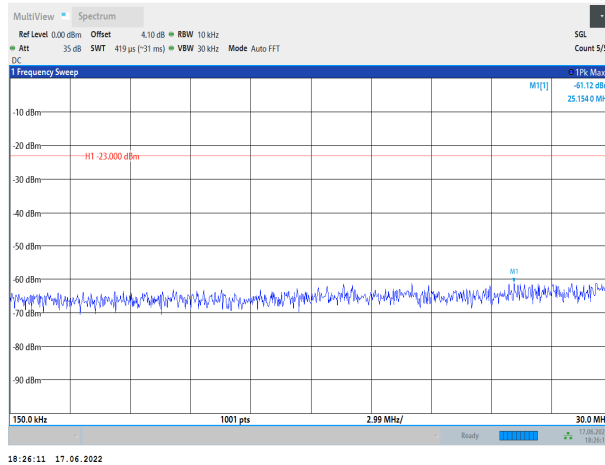
Conducted Spurious Emission

Test Graphs

Band2-20MHz-QPSK-18700-1RB#0-Range1:0.009~0.15MHz



Band2-20MHz-QPSK-18700-1RB#0-Range2:0.15~30MHz



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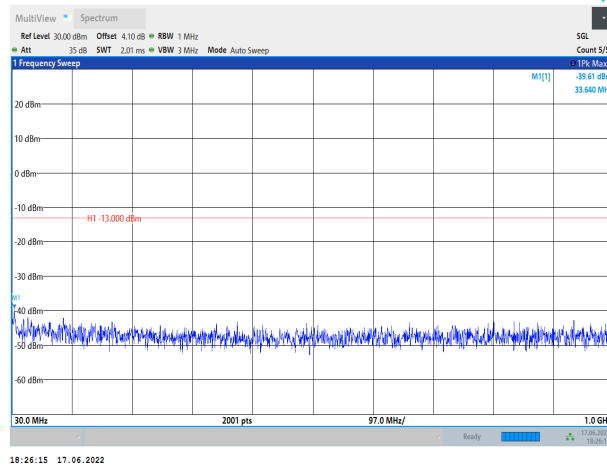


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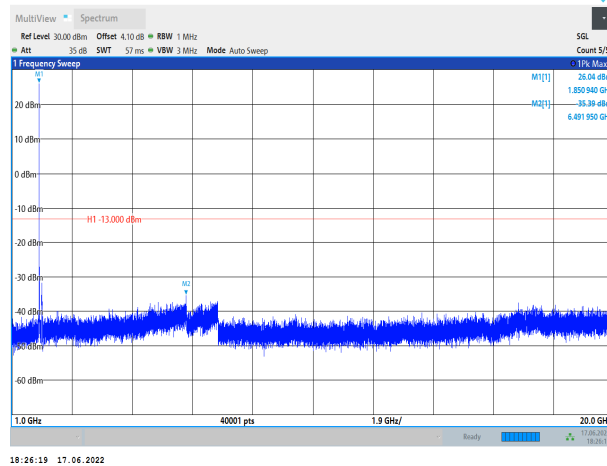
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Band2-20MHz-QPSK-18700-1RB#0-Range3:30~1000MHz



Band2-20MHz-QPSK-18700-1RB#0-Range4:1000~20000MHz



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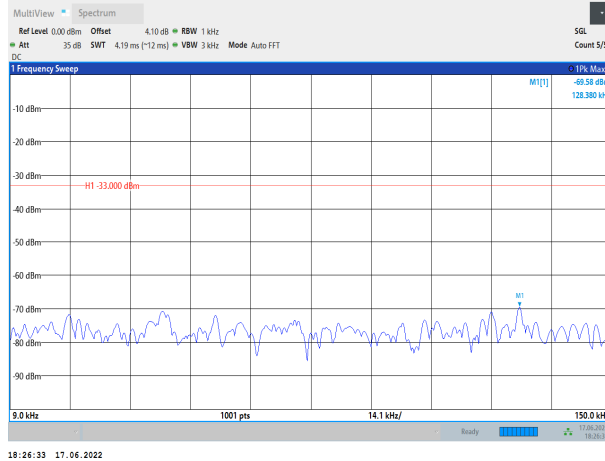


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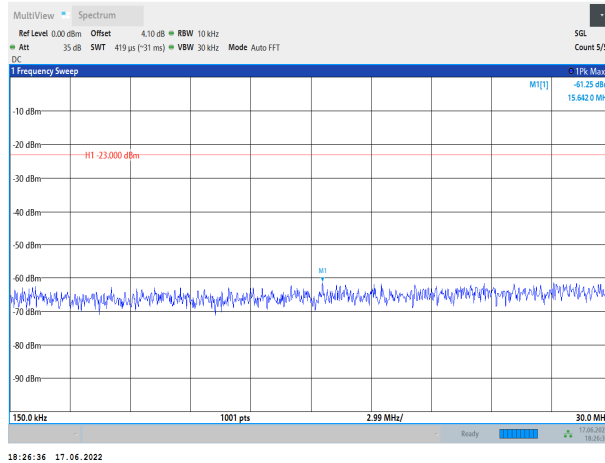
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Band2-20MHz-QPSK-18900-1RB#0-Range1:0.009~0.15MHz



Band2-20MHz-QPSK-18900-1RB#0-Range2:0.15~30MHz



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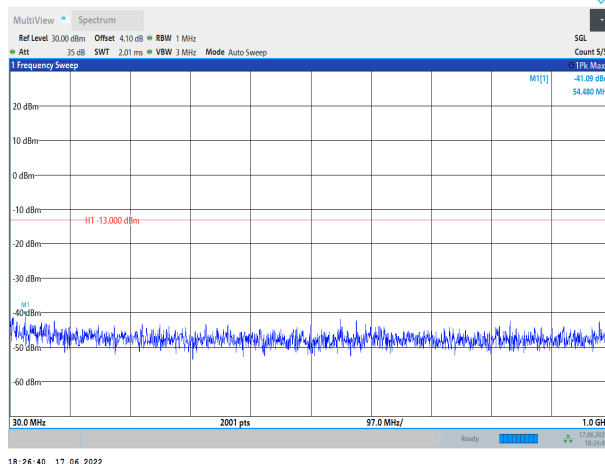


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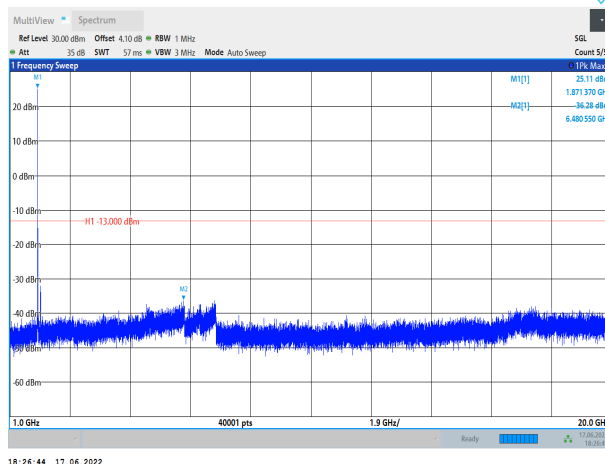
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Band2-20MHz-QPSK-18900-1RB#0-Range3:30~1000MHz



Band2-20MHz-QPSK-18900-1RB#0-Range4:1000~20000MHz



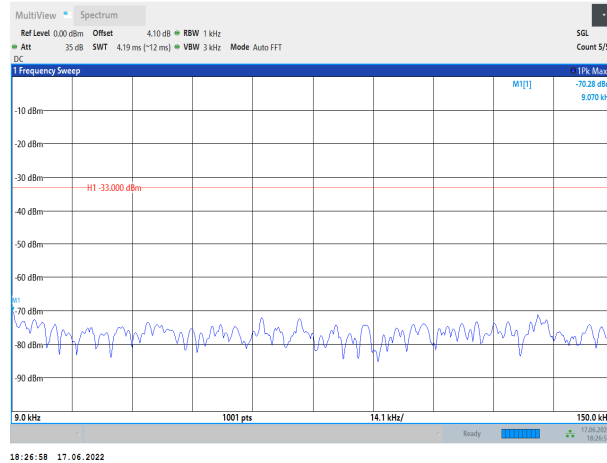
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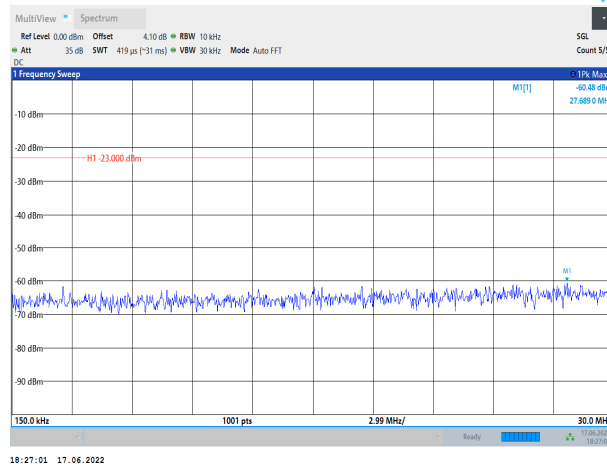
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Band2-20MHz-QPSK-19100-1RB#0-Range1:0.009~0.15MHz



Band2-20MHz-QPSK-19100-1RB#0-Range2:0.15~30MHz



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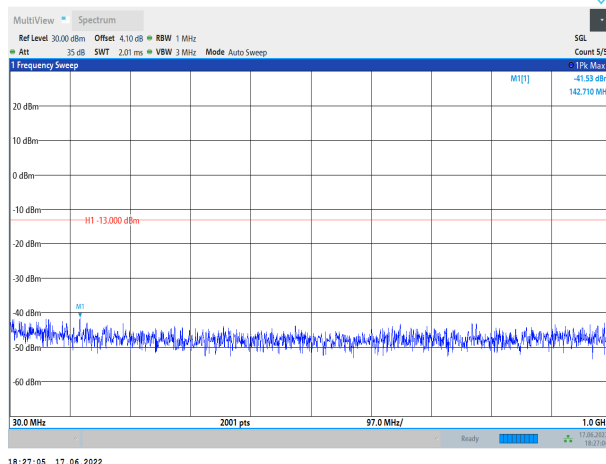


Report No.: SEWA2205000015RG01

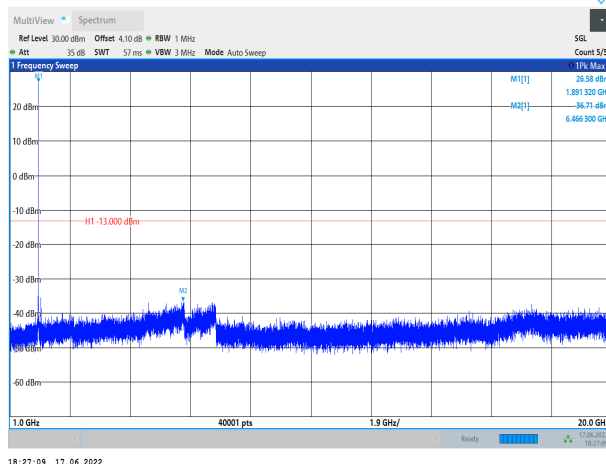
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Band2-20MHz-QPSK-19100-1RB#0-Range3:30~1000MHz



Band2-20MHz-QPSK-19100-1RB#0-Range4:1000~20000MHz



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Field Strength of Spurious Radiation

Test Band = LTE Band 2_ TM1

Test Channel = Low

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3702.1800	50.17	-110.79	-60.62	-13.00	47.62	194	242	Horizontal
2	5553.2700	48.76	-107.44	-58.68	-13.00	45.68	234	14	Horizontal
3	7404.3600	48.56	-102.17	-53.61	-13.00	40.61	284	59	Horizontal
4	9255.4500	43.25	-97.11	-53.86	-13.00	40.86	267	75	Horizontal
5	11106.5400	41.90	-94.10	-52.20	-13.00	39.20	137	345	Horizontal
6	12957.6300	38.93	-92.71	-53.78	-13.00	40.78	167	287	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3702.1800	49.73	-110.79	-61.06	-13.00	48.06	167	165	Vertical
2	5553.2700	48.30	-107.44	-59.14	-13.00	46.14	134	284	Vertical
3	7404.3600	47.71	-102.17	-54.46	-13.00	41.46	284	360	Vertical
4	9255.4500	45.60	-97.11	-51.51	-13.00	38.51	237	14	Vertical
5	11106.5400	48.46	-94.10	-45.64	-13.00	32.64	173	73	Vertical
6	12957.6300	38.09	-92.71	-54.62	-13.00	41.62	294	118	Vertical



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Test Band = LTE Band 2_ TM1
Test Channel = Mid
Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3742.1800	50.32	-110.82	-60.50	-13.00	47.50	164	347	Horizontal
2	5613.2700	48.31	-107.23	-58.92	-13.00	45.92	134	360	Horizontal
3	7484.3600	45.78	-101.99	-56.21	-13.00	43.21	197	122	Horizontal
4	9355.4500	43.98	-96.81	-52.83	-13.00	39.83	264	76	Horizontal
5	11226.5400	40.92	-93.55	-52.63	-13.00	39.63	294	61	Horizontal
6	13097.6300	37.65	-92.39	-54.74	-13.00	41.74	291	360	Horizontal

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3742.1800	50.58	-110.82	-60.24	-13.00	47.24	149	157	Vertical
2	5613.2700	48.33	-107.23	-58.90	-13.00	45.90	134	3	Vertical
3	7484.3600	47.09	-101.99	-54.90	-13.00	41.90	162	238	Vertical
4	9355.4500	44.38	-96.81	-52.43	-13.00	39.43	294	357	Vertical
5	11226.5400	46.91	-93.55	-46.64	-13.00	33.64	237	90	Vertical
6	13097.6300	37.39	-92.39	-55.00	-13.00	42.00	261	357	Vertical



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Test Band = LTE Band 2_ TM1
Test Channel = High

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3782.1800	51.71	-110.84	-59.13	-13.00	46.13	234	345	Horizontal
2	5673.2700	48.04	-106.88	-58.84	-13.00	45.84	291	120	Horizontal
3	7564.3600	45.81	-101.86	-56.05	-13.00	43.05	137	302	Horizontal
4	9455.4500	41.57	-96.84	-55.27	-13.00	42.27	134	360	Horizontal
5	11346.5400	41.82	-93.55	-51.73	-13.00	38.73	167	29	Horizontal
6	13237.6300	37.07	-92.37	-55.30	-13.00	42.30	194	60	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3782.1800	50.88	-110.84	-59.96	-13.00	46.96	261	90	Vertical
2	5673.2700	48.73	-106.88	-58.15	-13.00	45.15	271	164	Vertical
3	7564.3600	48.49	-101.86	-53.37	-13.00	40.37	134	357	Vertical
4	9455.4500	45.04	-96.84	-51.80	-13.00	38.80	138	59	Vertical
5	11346.5400	43.76	-93.55	-49.79	-13.00	36.79	164	285	Vertical
6	13237.6300	36.80	-92.37	-55.57	-13.00	42.57	297	133	Vertical

Remark:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:

Level = Reading Level(dBμV) + Factor(dB):

Factor = AF(dB/m) + Cable Factor(dB) - Preamplifier gain(dB)

AF = Antenna Factor(dB/m)

Margin = Limit(dBm) – Level(dBm)



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Frequency Stability

Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band2	20MHz	QPSK	18900	100RB#0	VL	NT	6.30	0.003351	PASS
Band2	20MHz	QPSK	18900	100RB#0	VN	NT	-3.20	-0.001702	PASS
Band2	20MHz	QPSK	18900	100RB#0	VH	NT	-8.70	-0.004628	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band2	20MHz	QPSK	18900	100RB#0	NV	-30	1.20	0.000638	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	-20	5.10	0.002713	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	-10	8.70	0.004628	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	0	1.70	0.000904	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	10	1.40	0.000745	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	20	7.90	0.004202	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	30	-1.00	-0.000532	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	40	-4.60	-0.002447	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	50	3.80	0.002021	PASS

The End



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