

Report No.: SEWA2309000114RG05

Rev.: 01

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Appendix B.2

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	23.77	24.02	33	PASS
Band2	1.4MHz	QPSK	18607	1RB#2	23.77	24.02	33	PASS
Band2	1.4MHz	QPSK	18607	1RB#5	23.68	23.93	33	PASS
Band2	1.4MHz	QPSK	18607	6RB#0	22.84	23.09	33	PASS
Band2	1.4MHz	QPSK	18900	1RB#0	23.36	23.61	33	PASS
Band2	1.4MHz	QPSK	18900	1RB#2	23.94	24.19	33	PASS
Band2	1.4MHz	QPSK	18900	1RB#5	23.78	24.03	33	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	22.87	23.12	33	PASS
Band2	1.4MHz	QPSK	19193	1RB#0	23.79	24.04	33	PASS
Band2	1.4MHz	QPSK	19193	1RB#2	23.81	24.06	33	PASS
Band2	1.4MHz	QPSK	19193	1RB#5	23.89	24.14	33	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	22.79	23.04	33	PASS
Band2	1.4MHz	16QAM	18607	1RB#0	23.09	23.34	33	PASS
Band2	1.4MHz	16QAM	18607	1RB#2	23.02	23.27	33	PASS
Band2	1.4MHz	16QAM	18607	1RB#5	22.87	23.12	33	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	21.8	22.05	33	PASS
Band2	1.4MHz	16QAM	18900	1RB#0	23.03	23.28	33	PASS
Band2	1.4MHz	16QAM	18900	1RB#2	23.09	23.34	33	PASS
Band2	1.4MHz	16QAM	18900	1RB#5	23.01	23.26	33	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	22	22.25	33	PASS
Band2	1.4MHz	16QAM	19193	1RB#0	22.98	23.23	33	PASS
Band2	1.4MHz	16QAM	19193	1RB#2	22.94	23.19	33	PASS
Band2	1.4MHz	16QAM	19193	1RB#5	23.06	23.31	33	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	21.89	22.14	33	PASS
Band2	1.4MHz	64QAM	18607	1RB#0	22.87	23.12	33	PASS
Band2	1.4MHz	64QAM	18607	1RB#2	21.9	22.15	33	PASS
Band2	1.4MHz	64QAM	18607	1RB#5	21.87	22.12	33	PASS
Band2	1.4MHz	64QAM	18607	6RB#0	20.81	21.06	33	PASS



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Band2	1.4MHz	64QAM	18900	1RB#0	22.05	22.3	33	PASS
Band2	1.4MHz	64QAM	18900	1RB#2	21.95	22.2	33	PASS
Band2	1.4MHz	64QAM	18900	1RB#5	21.99	22.24	33	PASS
Band2	1.4MHz	64QAM	18900	6RB#0	21.01	21.26	33	PASS
Band2	1.4MHz	64QAM	19193	1RB#0	21.98	22.23	33	PASS
Band2	1.4MHz	64QAM	19193	1RB#2	22.07	22.32	33	PASS
Band2	1.4MHz	64QAM	19193	1RB#5	22.11	22.36	33	PASS
Band2	1.4MHz	64QAM	19193	6RB#0	20.84	21.09	33	PASS
Band2	1.4MHz	256QAM	18607	1RB#0	18.84	19.09	33	PASS
Band2	1.4MHz	256QAM	18607	1RB#2	18.84	19.09	33	PASS
Band2	1.4MHz	256QAM	18607	1RB#5	18.84	19.09	33	PASS
Band2	1.4MHz	256QAM	18607	6RB#0	18.81	19.06	33	PASS
Band2	1.4MHz	256QAM	18900	1RB#0	19.03	19.28	33	PASS
Band2	1.4MHz	256QAM	18900	1RB#2	19.11	19.36	33	PASS
Band2	1.4MHz	256QAM	18900	1RB#5	19.1	19.35	33	PASS
Band2	1.4MHz	256QAM	18900	6RB#0	18.95	19.2	33	PASS
Band2	1.4MHz	256QAM	19193	1RB#0	18.92	19.17	33	PASS
Band2	1.4MHz	256QAM	19193	1RB#2	18.99	19.24	33	PASS
Band2	1.4MHz	256QAM	19193	1RB#5	18.93	19.18	33	PASS
Band2	1.4MHz	256QAM	19193	6RB#0	18.86	19.11	33	PASS
Band2	3MHz	QPSK	18615	1RB#0	23.68	23.93	33	PASS
Band2	3MHz	QPSK	18615	1RB#8	23.99	24.24	33	PASS
Band2	3MHz	QPSK	18615	1RB#14	23.79	24.04	33	PASS
Band2	3MHz	QPSK	18615	15RB#0	22.88	23.13	33	PASS
Band2	3MHz	QPSK	18900	1RB#0	23.78	24.03	33	PASS
Band2	3MHz	QPSK	18900	1RB#8	23.93	24.18	33	PASS
Band2	3MHz	QPSK	18900	1RB#14	23.93	24.18	33	PASS
Band2	3MHz	QPSK	18900	15RB#0	22.93	23.18	33	PASS
Band2	3MHz	QPSK	19185	1RB#0	23.81	24.06	33	PASS
Band2	3MHz	QPSK	19185	1RB#8	23.82	24.07	33	PASS
Band2	3MHz	QPSK	19185	1RB#14	23.82	24.07	33	PASS
Band2	3MHz	QPSK	19185	15RB#0	22.84	23.09	33	PASS
Band2	3MHz	16QAM	18615	1RB#0	22.79	23.04	33	PASS



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Band2	3MHz	16QAM	18615	1RB#8	23.07	23.32	33	PASS
Band2	3MHz	16QAM	18615	1RB#14	22.83	23.08	33	PASS
Band2	3MHz	16QAM	18615	15RB#0	21.82	22.07	33	PASS
Band2	3MHz	16QAM	18900	1RB#0	22.95	23.2	33	PASS
Band2	3MHz	16QAM	18900	1RB#8	23.04	23.29	33	PASS
Band2	3MHz	16QAM	18900	1RB#14	22.9	23.15	33	PASS
Band2	3MHz	16QAM	18900	15RB#0	21.92	22.17	33	PASS
Band2	3MHz	16QAM	19185	1RB#0	23.03	23.28	33	PASS
Band2	3MHz	16QAM	19185	1RB#8	22.99	23.24	33	PASS
Band2	3MHz	16QAM	19185	1RB#14	22.88	23.13	33	PASS
Band2	3MHz	16QAM	19185	15RB#0	21.75	22	33	PASS
Band2	3MHz	64QAM	18615	1RB#0	21.92	22.17	33	PASS
Band2	3MHz	64QAM	18615	1RB#8	22.02	22.27	33	PASS
Band2	3MHz	64QAM	18615	1RB#14	21.94	22.19	33	PASS
Band2	3MHz	64QAM	18615	15RB#0	20.88	21.13	33	PASS
Band2	3MHz	64QAM	18900	1RB#0	21.93	22.18	33	PASS
Band2	3MHz	64QAM	18900	1RB#8	21.99	22.24	33	PASS
Band2	3MHz	64QAM	18900	1RB#14	22.11	22.36	33	PASS
Band2	3MHz	64QAM	18900	15RB#0	20.89	21.14	33	PASS
Band2	3MHz	64QAM	19185	1RB#0	21.98	22.23	33	PASS
Band2	3MHz	64QAM	19185	1RB#8	22.19	22.44	33	PASS
Band2	3MHz	64QAM	19185	1RB#14	22.06	22.31	33	PASS
Band2	3MHz	64QAM	19185	15RB#0	20.82	21.07	33	PASS
Band2	3MHz	256QAM	18615	1RB#0	18.85	19.1	33	PASS
Band2	3MHz	256QAM	18615	1RB#8	18.9	19.15	33	PASS
Band2	3MHz	256QAM	18615	1RB#14	18.86	19.11	33	PASS
Band2	3MHz	256QAM	18615	15RB#0	18.87	19.12	33	PASS
Band2	3MHz	256QAM	18900	1RB#0	18.81	19.06	33	PASS
Band2	3MHz	256QAM	18900	1RB#8	19.01	19.26	33	PASS
Band2	3MHz	256QAM	18900	1RB#14	19.04	19.29	33	PASS
Band2	3MHz	256QAM	18900	15RB#0	18.93	19.18	33	PASS
Band2	3MHz	256QAM	19185	1RB#0	18.89	19.14	33	PASS
Band2	3MHz	256QAM	19185	1RB#8	18.89	19.14	33	PASS



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Table with 9 columns: Band, Frequency, Modulation, Power, RB, SNR, BER, Error Rate, Result. Contains 40 rows of test data for various bands and modulations.



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Band2	5MHz	64QAM	18900	25RB#0	20.89	21.14	33	PASS
Band2	5MHz	64QAM	19175	1RB#0	22.06	22.31	33	PASS
Band2	5MHz	64QAM	19175	1RB#12	22.14	22.39	33	PASS
Band2	5MHz	64QAM	19175	1RB#24	22.08	22.33	33	PASS
Band2	5MHz	64QAM	19175	25RB#0	20.91	21.16	33	PASS
Band2	5MHz	256QAM	18625	1RB#0	18.8	19.05	33	PASS
Band2	5MHz	256QAM	18625	1RB#12	18.98	19.23	33	PASS
Band2	5MHz	256QAM	18625	1RB#24	19	19.25	33	PASS
Band2	5MHz	256QAM	18625	25RB#0	18.87	19.12	33	PASS
Band2	5MHz	256QAM	18900	1RB#0	18.95	19.2	33	PASS
Band2	5MHz	256QAM	18900	1RB#12	19.03	19.28	33	PASS
Band2	5MHz	256QAM	18900	1RB#24	19	19.25	33	PASS
Band2	5MHz	256QAM	18900	25RB#0	18.9	19.15	33	PASS
Band2	5MHz	256QAM	19175	1RB#0	18.82	19.07	33	PASS
Band2	5MHz	256QAM	19175	1RB#12	19.02	19.27	33	PASS
Band2	5MHz	256QAM	19175	1RB#24	18.96	19.21	33	PASS
Band2	5MHz	256QAM	19175	25RB#0	18.92	19.17	33	PASS
Band2	10MHz	QPSK	18650	1RB#0	23.94	24.19	33	PASS
Band2	10MHz	QPSK	18650	1RB#24	23.79	24.04	33	PASS
Band2	10MHz	QPSK	18650	1RB#49	23.85	24.1	33	PASS
Band2	10MHz	QPSK	18650	50RB#0	22.85	23.1	33	PASS
Band2	10MHz	QPSK	18900	1RB#0	23.67	23.92	33	PASS
Band2	10MHz	QPSK	18900	1RB#24	24.09	24.34	33	PASS
Band2	10MHz	QPSK	18900	1RB#49	23.85	24.1	33	PASS
Band2	10MHz	QPSK	18900	50RB#0	22.91	23.16	33	PASS
Band2	10MHz	QPSK	19150	1RB#0	23.89	24.14	33	PASS
Band2	10MHz	QPSK	19150	1RB#24	23.93	24.18	33	PASS
Band2	10MHz	QPSK	19150	1RB#49	23.92	24.17	33	PASS
Band2	10MHz	QPSK	19150	50RB#0	22.91	23.16	33	PASS
Band2	10MHz	16QAM	18650	1RB#0	22.92	23.17	33	PASS
Band2	10MHz	16QAM	18650	1RB#24	23.03	23.28	33	PASS
Band2	10MHz	16QAM	18650	1RB#49	23	23.25	33	PASS
Band2	10MHz	16QAM	18650	50RB#0	21.91	22.16	33	PASS



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Band2	10MHz	16QAM	18900	1RB#0	22.85	23.1	33	PASS
Band2	10MHz	16QAM	18900	1RB#24	23.03	23.28	33	PASS
Band2	10MHz	16QAM	18900	1RB#49	23.01	23.26	33	PASS
Band2	10MHz	16QAM	18900	50RB#0	21.86	22.11	33	PASS
Band2	10MHz	16QAM	19150	1RB#0	23.23	23.48	33	PASS
Band2	10MHz	16QAM	19150	1RB#24	23.04	23.29	33	PASS
Band2	10MHz	16QAM	19150	1RB#49	22.98	23.23	33	PASS
Band2	10MHz	16QAM	19150	50RB#0	21.92	22.17	33	PASS
Band2	10MHz	64QAM	18650	1RB#0	22.05	22.3	33	PASS
Band2	10MHz	64QAM	18650	1RB#24	22.02	22.27	33	PASS
Band2	10MHz	64QAM	18650	1RB#49	21.94	22.19	33	PASS
Band2	10MHz	64QAM	18650	50RB#0	20.92	21.17	33	PASS
Band2	10MHz	64QAM	18900	1RB#0	22.18	22.43	33	PASS
Band2	10MHz	64QAM	18900	1RB#24	22.09	22.34	33	PASS
Band2	10MHz	64QAM	18900	1RB#49	22.27	22.52	33	PASS
Band2	10MHz	64QAM	18900	50RB#0	20.92	21.17	33	PASS
Band2	10MHz	64QAM	19150	1RB#0	22.06	22.31	33	PASS
Band2	10MHz	64QAM	19150	1RB#24	22.24	22.49	33	PASS
Band2	10MHz	64QAM	19150	1RB#49	22.09	22.34	33	PASS
Band2	10MHz	64QAM	19150	50RB#0	21	21.25	33	PASS
Band2	10MHz	256QAM	18650	1RB#0	18.79	19.04	33	PASS
Band2	10MHz	256QAM	18650	1RB#24	18.99	19.24	33	PASS
Band2	10MHz	256QAM	18650	1RB#49	18.99	19.24	33	PASS
Band2	10MHz	256QAM	18650	50RB#0	18.9	19.15	33	PASS
Band2	10MHz	256QAM	18900	1RB#0	18.92	19.17	33	PASS
Band2	10MHz	256QAM	18900	1RB#24	19.14	19.39	33	PASS
Band2	10MHz	256QAM	18900	1RB#49	19.01	19.26	33	PASS
Band2	10MHz	256QAM	18900	50RB#0	18.88	19.13	33	PASS
Band2	10MHz	256QAM	19150	1RB#0	18.85	19.1	33	PASS
Band2	10MHz	256QAM	19150	1RB#24	19.07	19.32	33	PASS
Band2	10MHz	256QAM	19150	1RB#49	18.92	19.17	33	PASS
Band2	10MHz	256QAM	19150	50RB#0	19	19.25	33	PASS
Band2	15MHz	QPSK	18675	1RB#0	23.51	23.76	33	PASS



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Band2	15MHz	QPSK	18675	1RB#38	23.8	24.05	33	PASS
Band2	15MHz	QPSK	18675	1RB#74	23.7	23.95	33	PASS
Band2	15MHz	QPSK	18675	75RB#0	22.82	23.07	33	PASS
Band2	15MHz	QPSK	18900	1RB#0	23.86	24.11	33	PASS
Band2	15MHz	QPSK	18900	1RB#38	24.01	24.26	33	PASS
Band2	15MHz	QPSK	18900	1RB#74	23.78	24.03	33	PASS
Band2	15MHz	QPSK	18900	75RB#0	22.74	22.99	33	PASS
Band2	15MHz	QPSK	19125	1RB#0	23.71	23.96	33	PASS
Band2	15MHz	QPSK	19125	1RB#38	23.71	23.96	33	PASS
Band2	15MHz	QPSK	19125	1RB#74	23.6	23.85	33	PASS
Band2	15MHz	QPSK	19125	75RB#0	22.74	22.99	33	PASS
Band2	15MHz	16QAM	18675	1RB#0	22.77	23.02	33	PASS
Band2	15MHz	16QAM	18675	1RB#38	22.86	23.11	33	PASS
Band2	15MHz	16QAM	18675	1RB#74	22.82	23.07	33	PASS
Band2	15MHz	16QAM	18675	75RB#0	21.79	22.04	33	PASS
Band2	15MHz	16QAM	18900	1RB#0	22.86	23.11	33	PASS
Band2	15MHz	16QAM	18900	1RB#38	22.86	23.11	33	PASS
Band2	15MHz	16QAM	18900	1RB#74	22.88	23.13	33	PASS
Band2	15MHz	16QAM	18900	75RB#0	21.81	22.06	33	PASS
Band2	15MHz	16QAM	19125	1RB#0	22.78	23.03	33	PASS
Band2	15MHz	16QAM	19125	1RB#38	22.8	23.05	33	PASS
Band2	15MHz	16QAM	19125	1RB#74	22.87	23.12	33	PASS
Band2	15MHz	16QAM	19125	75RB#0	21.79	22.04	33	PASS
Band2	15MHz	64QAM	18675	1RB#0	21.89	22.14	33	PASS
Band2	15MHz	64QAM	18675	1RB#38	21.92	22.17	33	PASS
Band2	15MHz	64QAM	18675	1RB#74	22.07	22.32	33	PASS
Band2	15MHz	64QAM	18675	75RB#0	20.76	21.01	33	PASS
Band2	15MHz	64QAM	18900	1RB#0	21.7	21.95	33	PASS
Band2	15MHz	64QAM	18900	1RB#38	21.88	22.13	33	PASS
Band2	15MHz	64QAM	18900	1RB#74	22.01	22.26	33	PASS
Band2	15MHz	64QAM	18900	75RB#0	20.79	21.04	33	PASS
Band2	15MHz	64QAM	19125	1RB#0	21.72	21.97	33	PASS
Band2	15MHz	64QAM	19125	1RB#38	21.78	22.03	33	PASS



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Table with 9 columns: Band, Frequency, Modulation, Rate, Code Rate, SNR, BER, and Result. It contains 40 rows of test data for various configurations.



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Band2	20MHz	16QAM	18900	100RB#0	21.81	22.06	33	PASS
Band2	20MHz	16QAM	19100	1RB#0	23.14	23.39	33	PASS
Band2	20MHz	16QAM	19100	1RB#49	23.04	23.29	33	PASS
Band2	20MHz	16QAM	19100	1RB#99	22.81	23.06	33	PASS
Band2	20MHz	16QAM	19100	100RB#0	21.71	21.96	33	PASS
Band2	20MHz	64QAM	18700	1RB#0	21.79	22.04	33	PASS
Band2	20MHz	64QAM	18700	1RB#49	21.77	22.02	33	PASS
Band2	20MHz	64QAM	18700	1RB#99	21.73	21.98	33	PASS
Band2	20MHz	64QAM	18700	100RB#0	20.81	21.06	33	PASS
Band2	20MHz	64QAM	18900	1RB#0	21.82	22.07	33	PASS
Band2	20MHz	64QAM	18900	1RB#49	22.19	22.44	33	PASS
Band2	20MHz	64QAM	18900	1RB#99	21.92	22.17	33	PASS
Band2	20MHz	64QAM	18900	100RB#0	20.81	21.06	33	PASS
Band2	20MHz	64QAM	19100	1RB#0	21.88	22.13	33	PASS
Band2	20MHz	64QAM	19100	1RB#49	21.91	22.16	33	PASS
Band2	20MHz	64QAM	19100	1RB#99	21.86	22.11	33	PASS
Band2	20MHz	64QAM	19100	100RB#0	20.76	21.01	33	PASS
Band2	20MHz	256QAM	18700	1RB#0	18.54	18.79	33	PASS
Band2	20MHz	256QAM	18700	1RB#49	18.85	19.1	33	PASS
Band2	20MHz	256QAM	18700	1RB#99	18.81	19.06	33	PASS
Band2	20MHz	256QAM	18700	100RB#0	18.82	19.07	33	PASS
Band2	20MHz	256QAM	18900	1RB#0	18.72	18.97	33	PASS
Band2	20MHz	256QAM	18900	1RB#49	18.76	19.01	33	PASS
Band2	20MHz	256QAM	18900	1RB#99	19.05	19.3	33	PASS
Band2	20MHz	256QAM	18900	100RB#0	18.72	18.97	33	PASS
Band2	20MHz	256QAM	19100	1RB#0	18.59	18.84	33	PASS
Band2	20MHz	256QAM	19100	1RB#49	18.99	19.24	33	PASS
Band2	20MHz	256QAM	19100	1RB#99	18.9	19.15	33	PASS
Band2	20MHz	256QAM	19100	100RB#0	18.84	19.09	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	5.66	13	PASS
Band2	20MHz	QPSK	18900	100RB#0	5.10	13	PASS
Band2	20MHz	QPSK	19100	100RB#0	5.26	13	PASS
Band2	20MHz	16QAM	18700	100RB#0	6.54	13	PASS
Band2	20MHz	16QAM	18900	100RB#0	6.22	13	PASS
Band2	20MHz	16QAM	19100	100RB#0	6.58	13	PASS
Band2	20MHz	64QAM	18700	100RB#0	6.88	13	PASS
Band2	20MHz	64QAM	18900	100RB#0	6.82	13	PASS
Band2	20MHz	64QAM	19100	100RB#0	6.90	13	PASS
Band2	20MHz	256QAM	18700	100RB#0	7.06	13	PASS
Band2	20MHz	256QAM	18900	100RB#0	7.12	13	PASS
Band2	20MHz	256QAM	19100	100RB#0	7.12	13	PASS

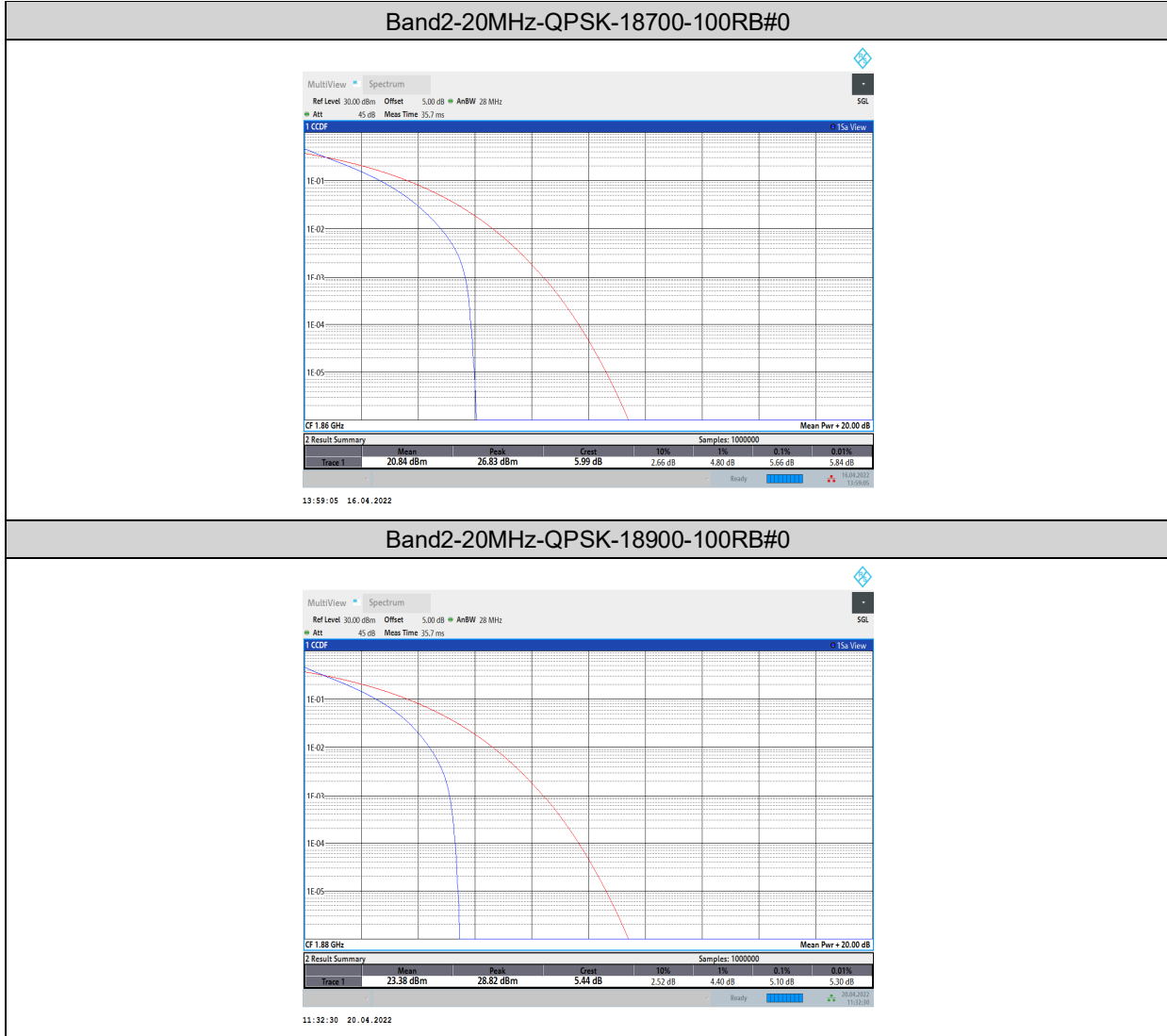


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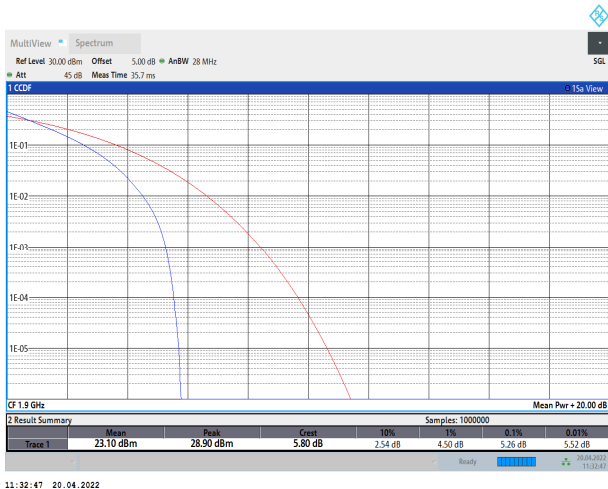
Test Graphs



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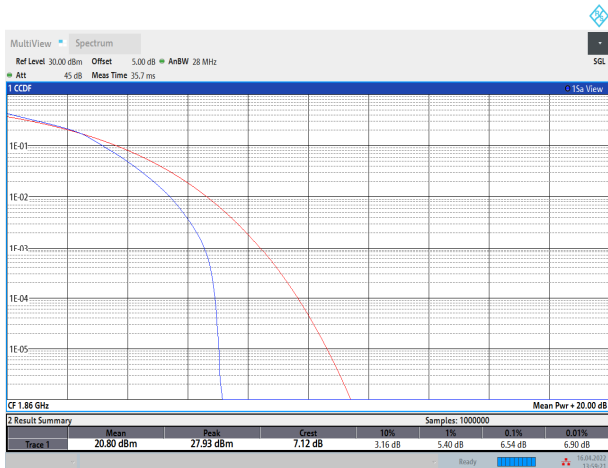
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Band2-20MHz-QPSK-19100-100RB#0



11:32:47 20.04.2022

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



13:59:22 16.04.2022



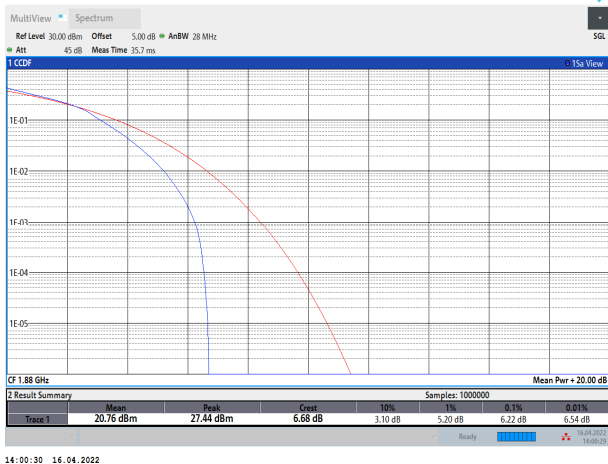
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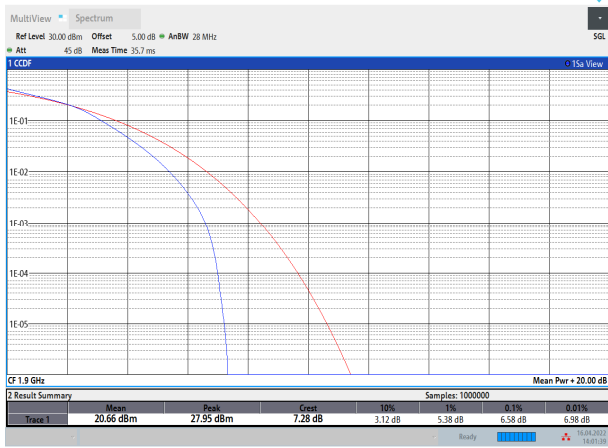
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Band2-20MHz-16QAM-18900-100RB#0



14:00:30 16.04.2022

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



14:01:40 16.04.2022

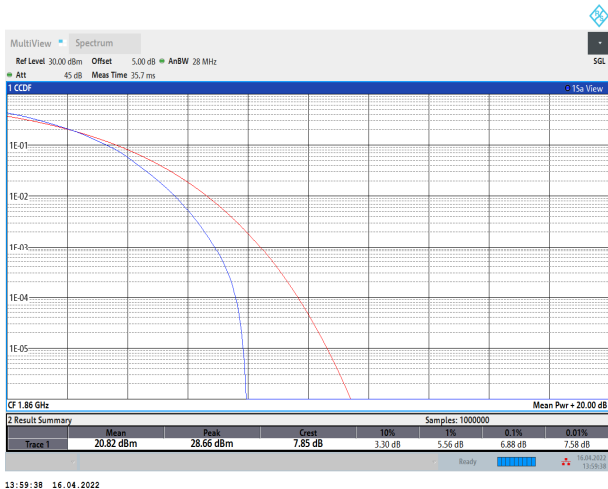


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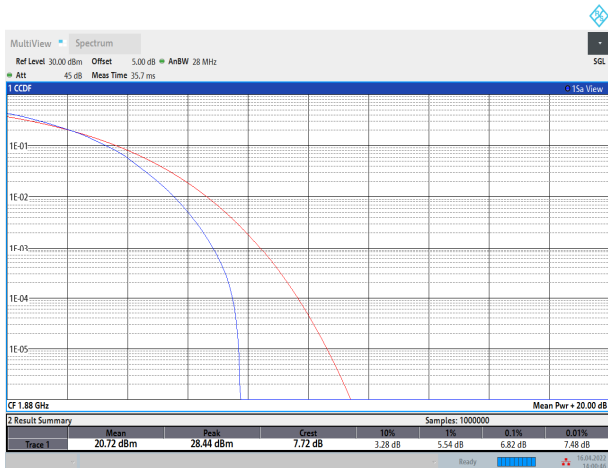
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Band2-20MHz-64QAM-18700-100RB#0



13:59:58 16.04.2022

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



14:00:46 16.04.2022

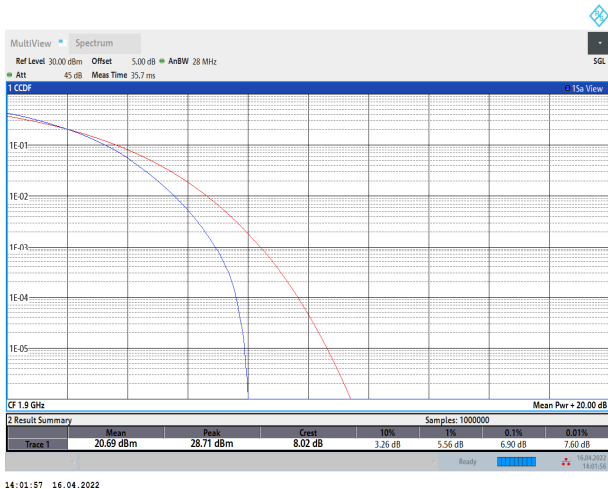


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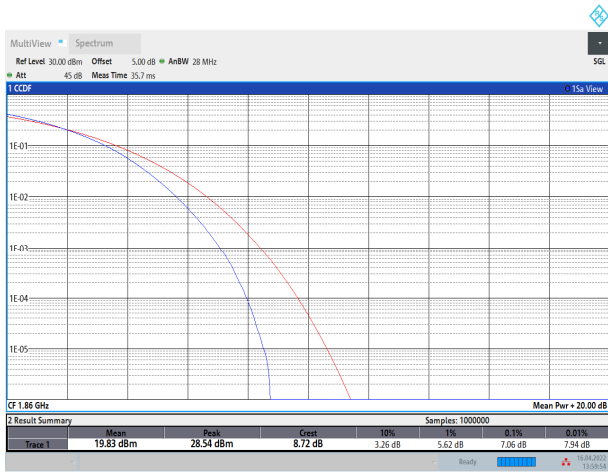
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Band2-20MHz-64QAM-19100-100RB#0



14:01:57 16.04.2022

Band2-20MHz-256QAM-18700-100RB#0



13:59:55 16.04.2022



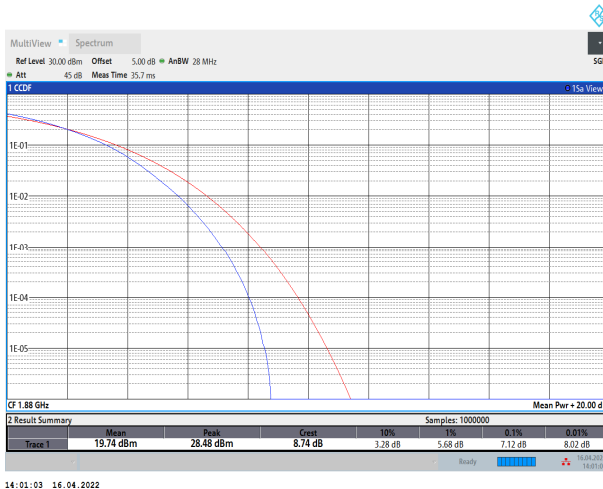
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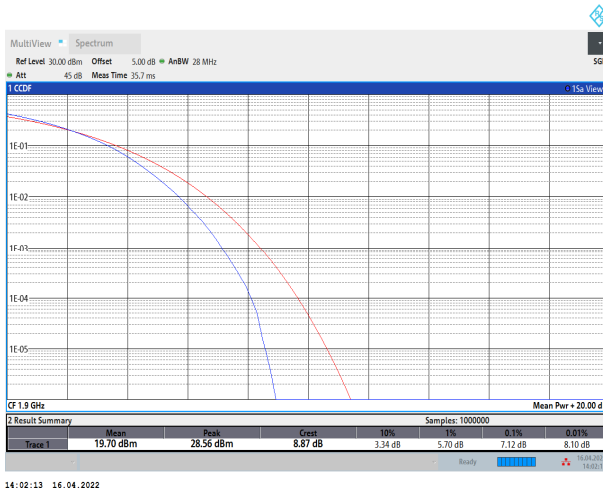
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Band2-20MHz-256QAM-18900-100RB#0



14:01:03 16.04.2022

Band2-20MHz-256QAM-19100-100RB#0



14:02:13 16.04.2022



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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	1.104	1.37	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	1.105	1.37	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	1.106	1.39	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	1.106	1.39	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	1.108	1.39	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	1.109	1.42	PASS
Band2	1.4MHz	64QAM	18607	6RB#0	1.103	1.38	PASS
Band2	1.4MHz	64QAM	18900	6RB#0	1.105	1.40	PASS
Band2	1.4MHz	64QAM	19193	6RB#0	1.110	1.39	PASS
Band2	1.4MHz	256QAM	18607	6RB#0	1.104	1.41	PASS
Band2	1.4MHz	256QAM	18900	6RB#0	1.105	1.39	PASS
Band2	1.4MHz	256QAM	19193	6RB#0	1.109	1.40	PASS
Band2	3MHz	QPSK	18615	15RB#0	2.699	3.02	PASS
Band2	3MHz	QPSK	18900	15RB#0	2.700	3.05	PASS
Band2	3MHz	QPSK	19185	15RB#0	2.699	3.04	PASS
Band2	3MHz	16QAM	18615	15RB#0	2.696	3.07	PASS
Band2	3MHz	16QAM	18900	15RB#0	2.700	3.05	PASS
Band2	3MHz	16QAM	19185	15RB#0	2.699	3.04	PASS
Band2	3MHz	64QAM	18615	15RB#0	2.702	3.04	PASS
Band2	3MHz	64QAM	18900	15RB#0	2.700	3.05	PASS
Band2	3MHz	64QAM	19185	15RB#0	2.702	3.02	PASS
Band2	3MHz	256QAM	18615	15RB#0	2.697	3.04	PASS
Band2	3MHz	256QAM	18900	15RB#0	2.695	3.08	PASS
Band2	3MHz	256QAM	19185	15RB#0	2.698	3.08	PASS
Band2	5MHz	QPSK	18625	25RB#0	4.481	5.10	PASS
Band2	5MHz	QPSK	18900	25RB#0	4.483	5.03	PASS
Band2	5MHz	QPSK	19175	25RB#0	4.477	5.02	PASS
Band2	5MHz	16QAM	18625	25RB#0	4.486	5.05	PASS
Band2	5MHz	16QAM	18900	25RB#0	4.480	5.03	PASS



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Report No.: SEWA2309000114RG05

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Band2	5MHz	16QAM	19175	25RB#0	4.483	5.01	PASS
Band2	5MHz	64QAM	18625	25RB#0	4.484	5.02	PASS
Band2	5MHz	64QAM	18900	25RB#0	4.479	5.15	PASS
Band2	5MHz	64QAM	19175	25RB#0	4.480	5.09	PASS
Band2	5MHz	256QAM	18625	25RB#0	4.487	5.04	PASS
Band2	5MHz	256QAM	18900	25RB#0	4.482	5.04	PASS
Band2	5MHz	256QAM	19175	25RB#0	4.482	5.07	PASS
Band2	10MHz	QPSK	18650	50RB#0	8.942	9.90	PASS
Band2	10MHz	QPSK	18900	50RB#0	8.949	9.80	PASS
Band2	10MHz	QPSK	19150	50RB#0	8.948	9.86	PASS
Band2	10MHz	16QAM	18650	50RB#0	8.954	9.86	PASS
Band2	10MHz	16QAM	18900	50RB#0	8.950	9.80	PASS
Band2	10MHz	16QAM	19150	50RB#0	8.949	9.88	PASS
Band2	10MHz	64QAM	18650	50RB#0	8.951	9.86	PASS
Band2	10MHz	64QAM	18900	50RB#0	8.940	9.80	PASS
Band2	10MHz	64QAM	19150	50RB#0	8.955	9.96	PASS
Band2	10MHz	256QAM	18650	50RB#0	8.954	9.82	PASS
Band2	10MHz	256QAM	18900	50RB#0	8.959	9.86	PASS
Band2	10MHz	256QAM	19150	50RB#0	8.948	9.88	PASS
Band2	15MHz	QPSK	18675	75RB#0	13.514	15.06	PASS
Band2	15MHz	QPSK	18900	75RB#0	13.501	15.00	PASS
Band2	15MHz	QPSK	19125	75RB#0	13.528	15.00	PASS
Band2	15MHz	16QAM	18675	75RB#0	13.501	15.06	PASS
Band2	15MHz	16QAM	18900	75RB#0	13.504	15.06	PASS
Band2	15MHz	16QAM	19125	75RB#0	13.497	15.06	PASS
Band2	15MHz	64QAM	18675	75RB#0	13.485	15.18	PASS
Band2	15MHz	64QAM	18900	75RB#0	13.491	15.06	PASS
Band2	15MHz	64QAM	19125	75RB#0	13.481	14.97	PASS
Band2	15MHz	256QAM	18675	75RB#0	13.481	15.03	PASS
Band2	15MHz	256QAM	18900	75RB#0	13.491	15.00	PASS
Band2	15MHz	256QAM	19125	75RB#0	13.518	15.09	PASS
Band2	20MHz	QPSK	18700	100RB#0	17.929	19.52	PASS
Band2	20MHz	QPSK	18900	100RB#0	17.920	19.80	PASS
Band2	20MHz	QPSK	19100	100RB#0	17.940	19.84	PASS
Band2	20MHz	16QAM	18700	100RB#0	17.908	19.76	PASS
Band2	20MHz	16QAM	18900	100RB#0	17.936	19.76	PASS
Band2	20MHz	16QAM	19100	100RB#0	17.936	19.80	PASS
Band2	20MHz	64QAM	18700	100RB#0	17.921	19.56	PASS



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Report No.: SEWA2309000114RG05

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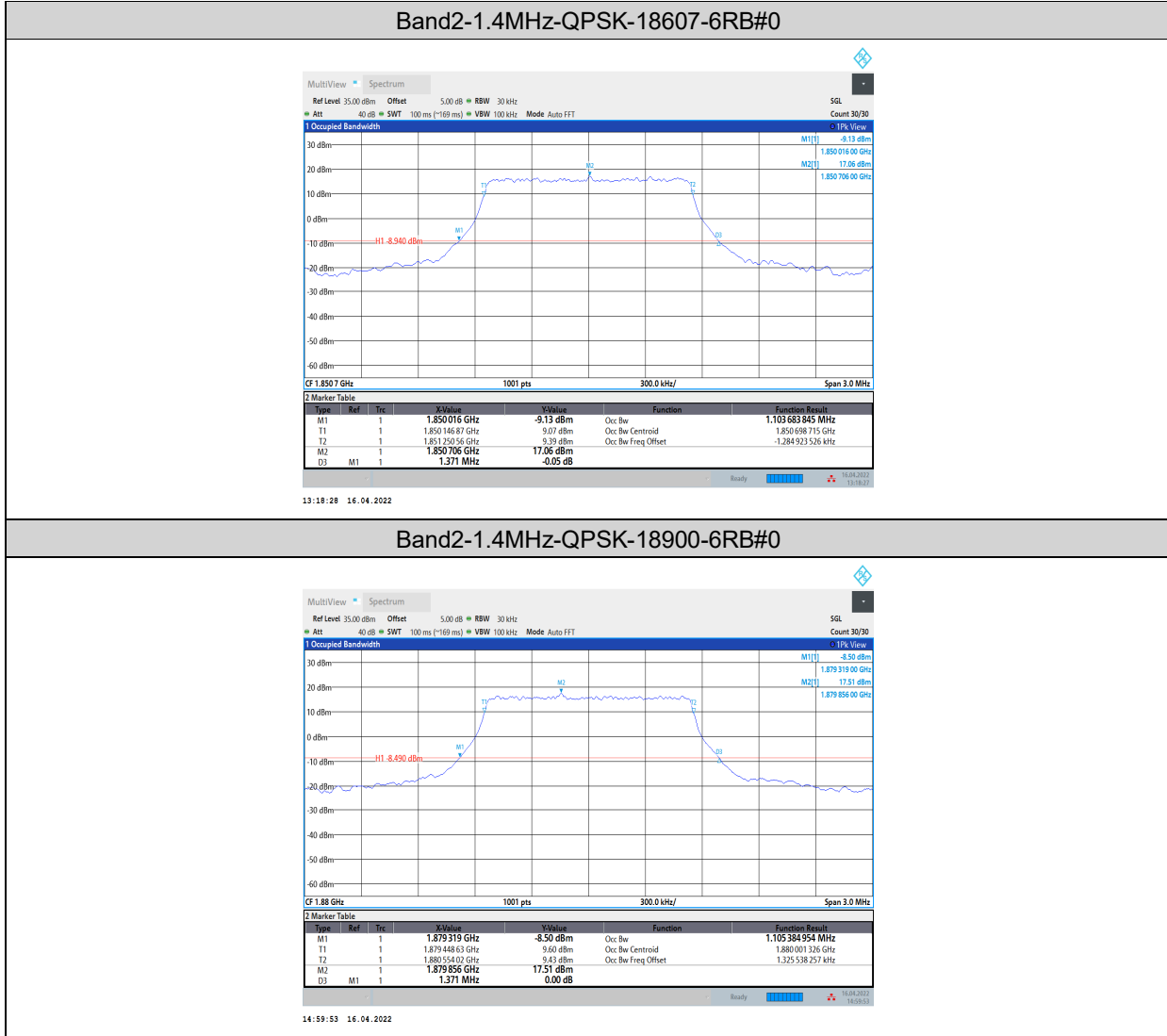
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Band2	20MHz	64QAM	19100	100RB#0	17.937	19.76	PASS
Band2	20MHz	256QAM	18700	100RB#0	17.924	19.60	PASS
Band2	20MHz	256QAM	18900	100RB#0	17.919	19.76	PASS
Band2	20MHz	256QAM	19100	100RB#0	17.915	19.64	PASS



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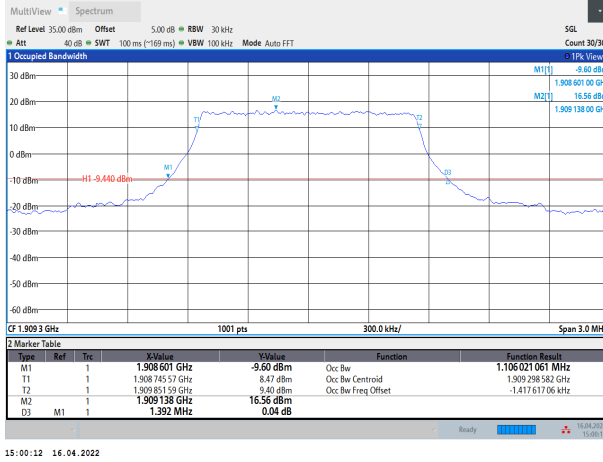
Test Graphs



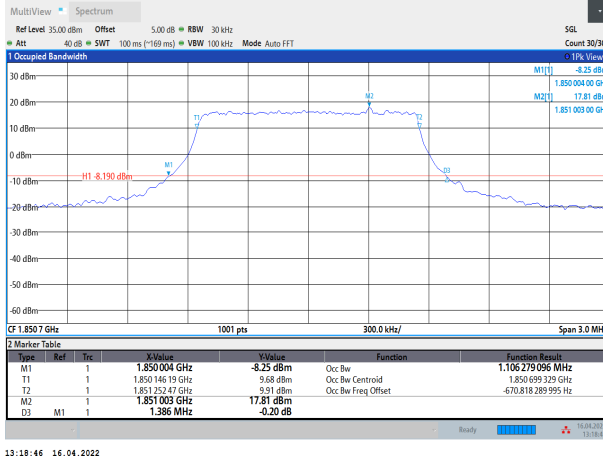
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Band2-1.4MHz-QPSK-19193-6RB#0



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

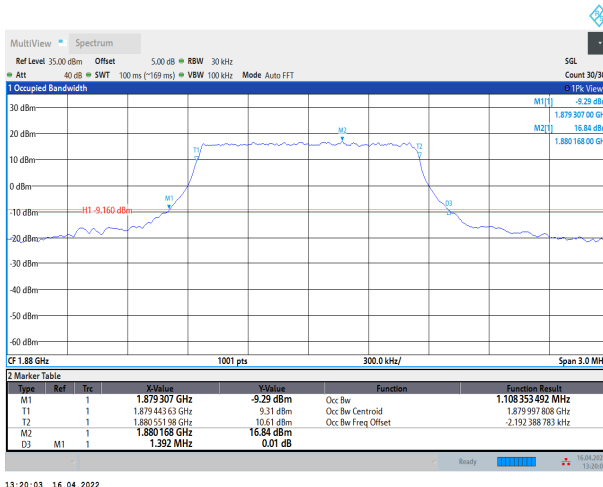


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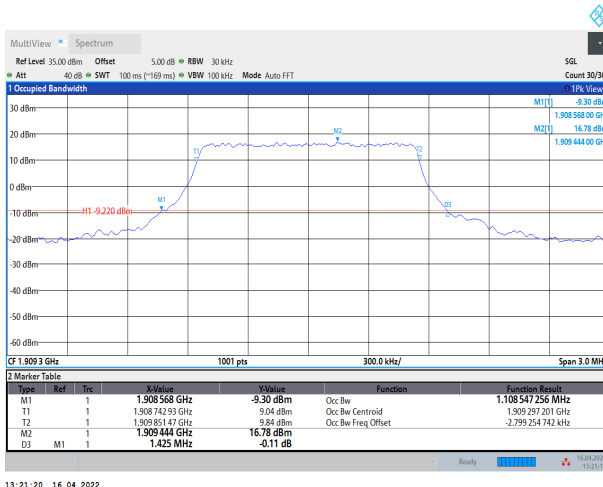
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Band2-1.4MHz-16QAM-18900-6RB#0



13:20:03 16.04.2022

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



13:21:20 16.04.2022

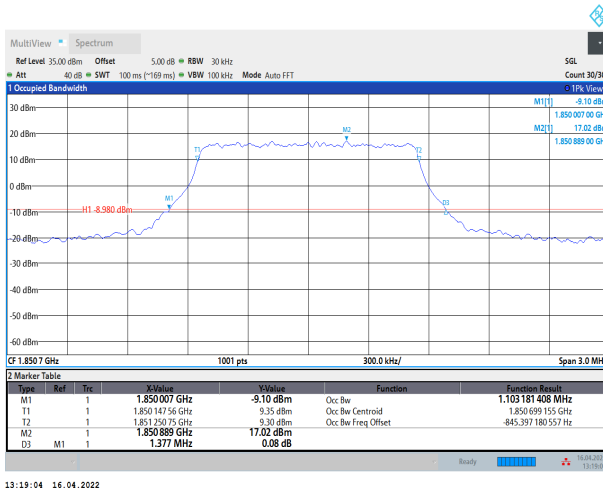


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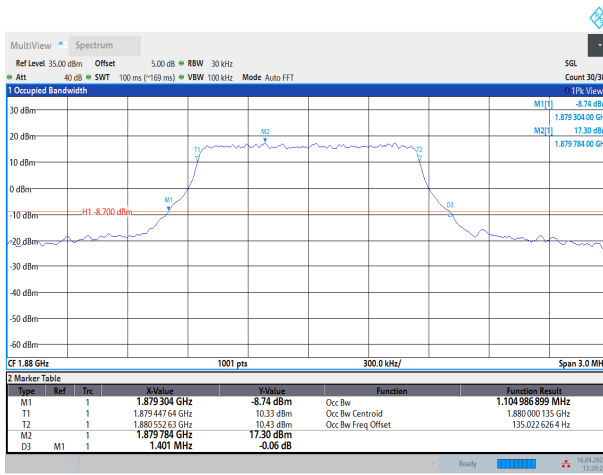
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Band2-1.4MHz-64QAM-18607-6RB#0



13:19:04 16.04.2022

Band2-1.4MHz-64QAM-18900-6RB#0



13:20:21 16.04.2022

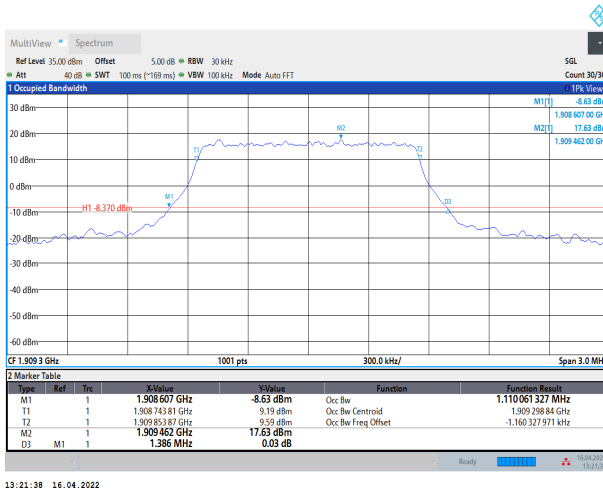


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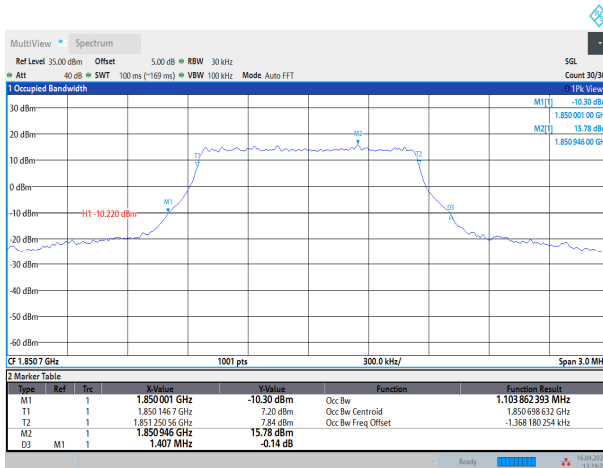
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Band2-1.4MHz-64QAM-19193-6RB#0



13:21:58 16.04.2022

Band2-1.4MHz-256QAM-18607-6RB#0



13:19:23 16.04.2022

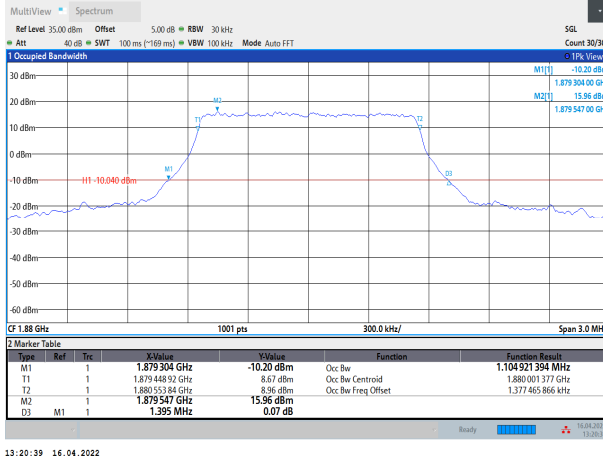


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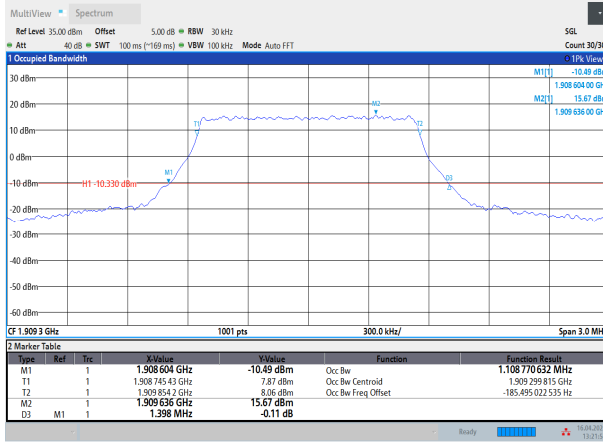
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Band2-1.4MHz-256QAM-18900-6RB#0



13:20:59 16.04.2022

Band2-1.4MHz-256QAM-19193-6RB#0



13:21:56 16.04.2022

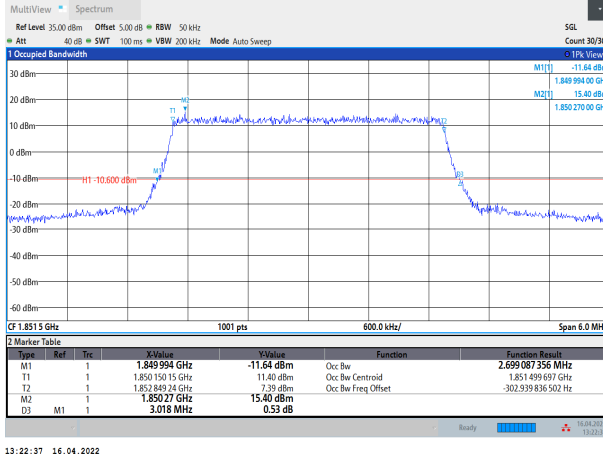


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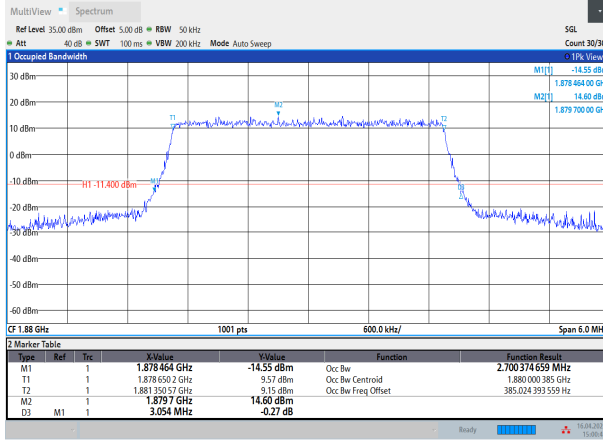
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Band2-3MHz-QPSK-18615-15RB#0



13:22:57 16.04.2022

Band2-3MHz-QPSK-18900-15RB#0



15:00:45 16.04.2022

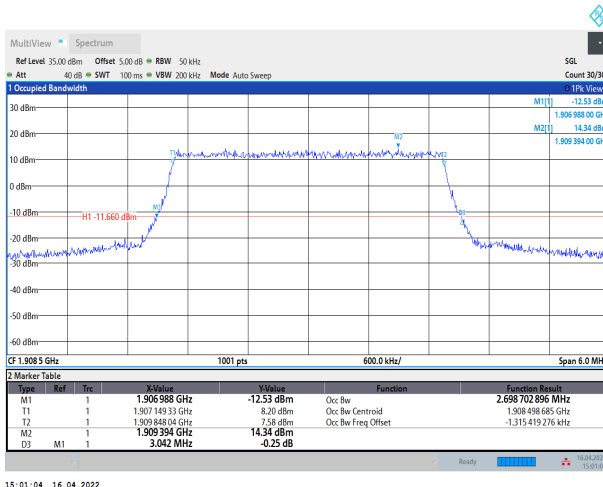


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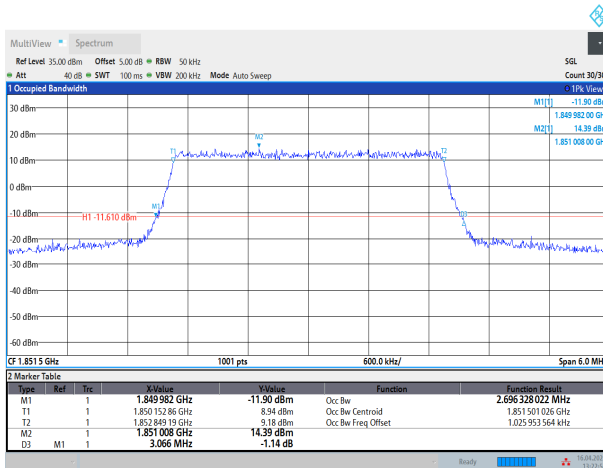
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Band2-3MHz-QPSK-19185-15RB#0



15:01:04 16.04.2022

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



13:22:55 16.04.2022

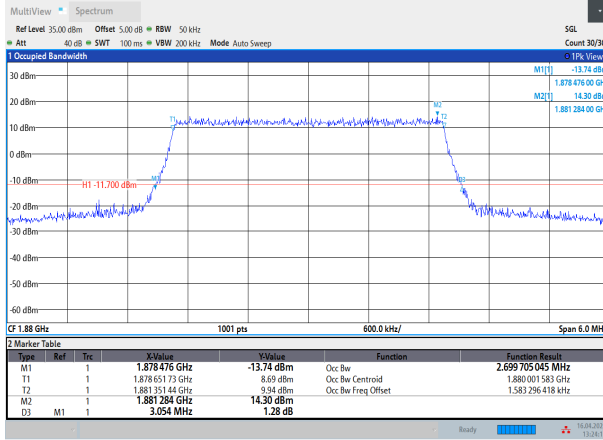


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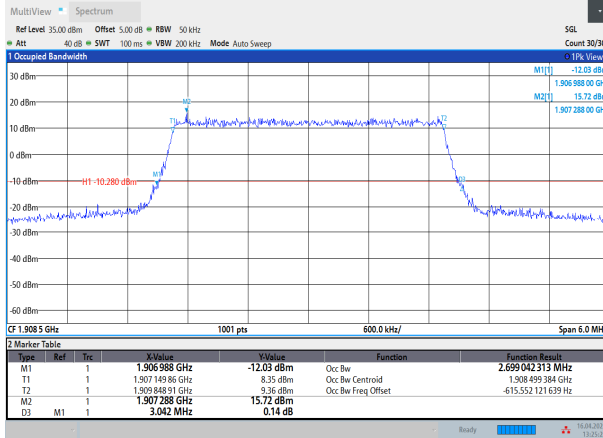
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Band2-3MHz-16QAM-18900-15RB#0



13:24:12 16.04.2022

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



13:25:29 16.04.2022

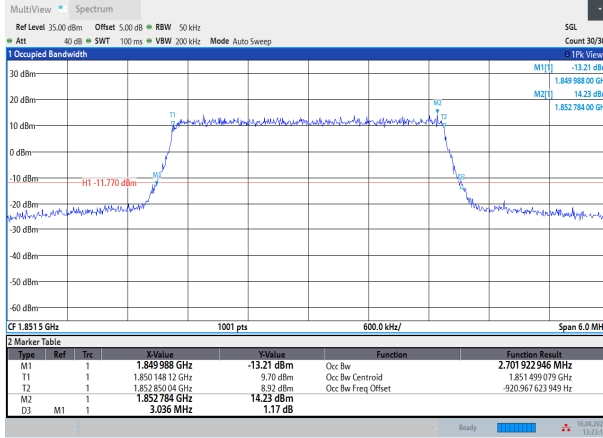


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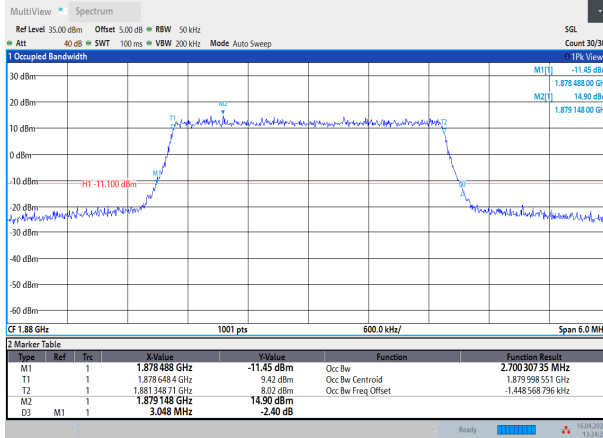
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Band2-3MHz-64QAM-18615-15RB#0



13:33:13 16.04.2022

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



13:24:30 16.04.2022

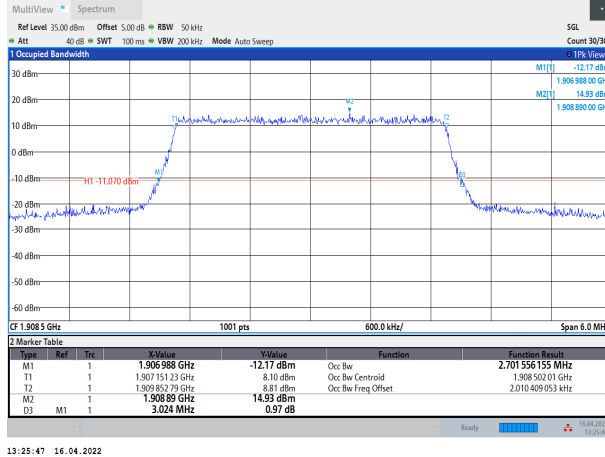


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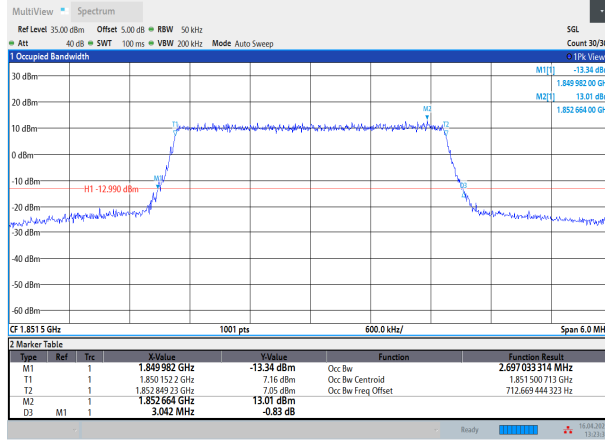
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Band2-3MHz-64QAM-19185-15RB#0



13:25:47 16.04.2022

Band2-3MHz-256QAM-18615-15RB#0



13:23:31 16.04.2022

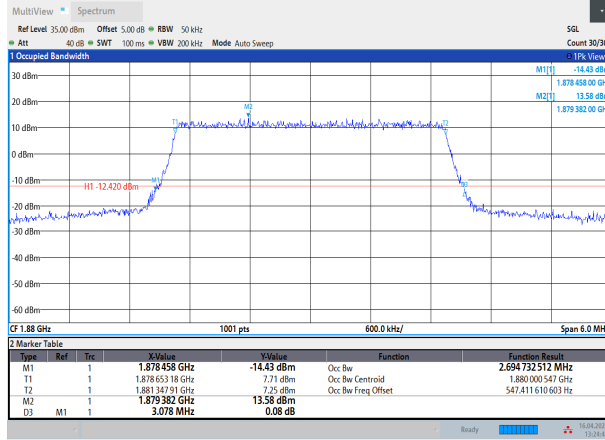


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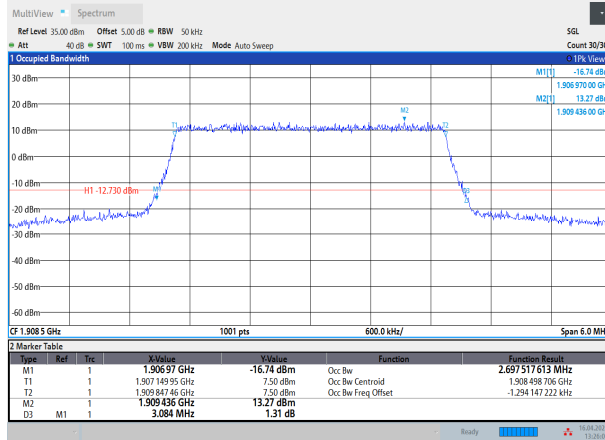
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Band2-3MHz-256QAM-18900-15RB#0



13:24:48 16.04.2022

Band2-3MHz-256QAM-19185-15RB#0



13:26:05 16.04.2022

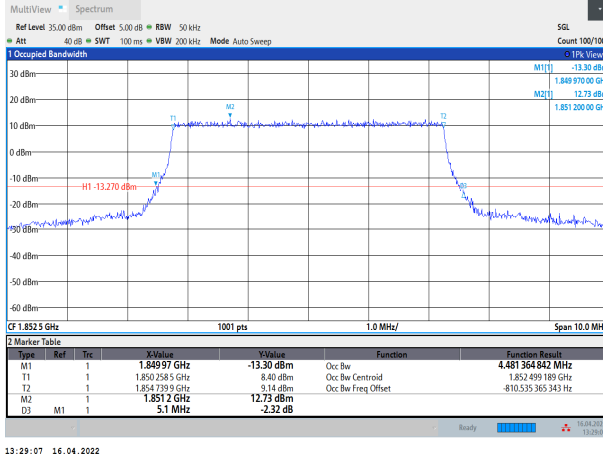


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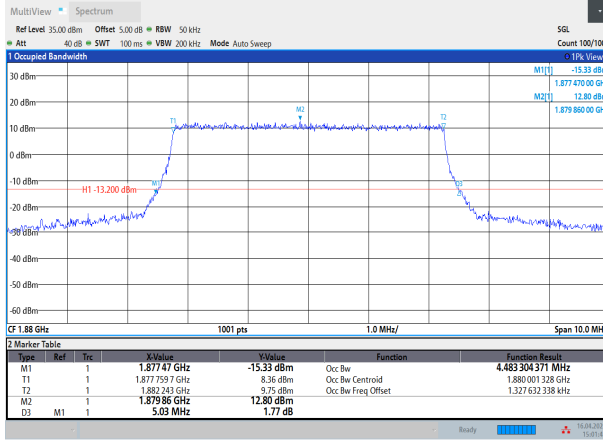
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Band2-5MHz-QPSK-18625-25RB#0



13:19:07 16.04.2022

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



15:01:44 16.04.2022

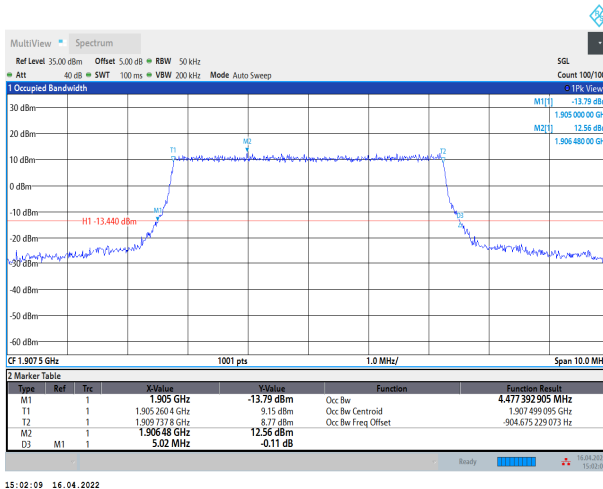


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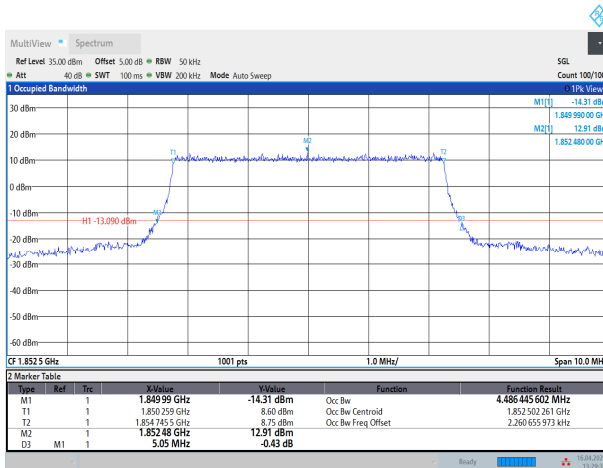
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Band2-5MHz-QPSK-19175-25RB#0



15:02:09 16.04.2022

Band2-5MHz-16QAM-18625-25RB#0



13:29:32 16.04.2022

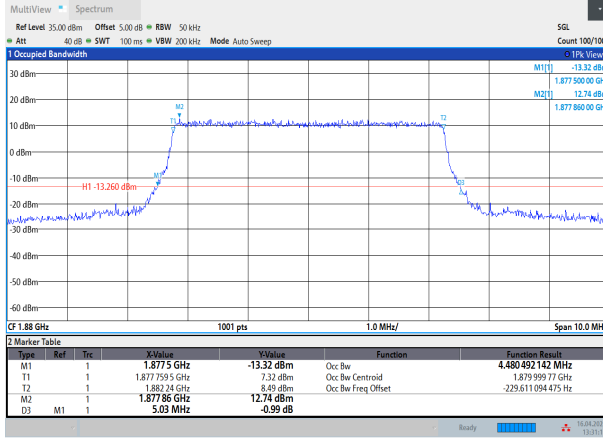


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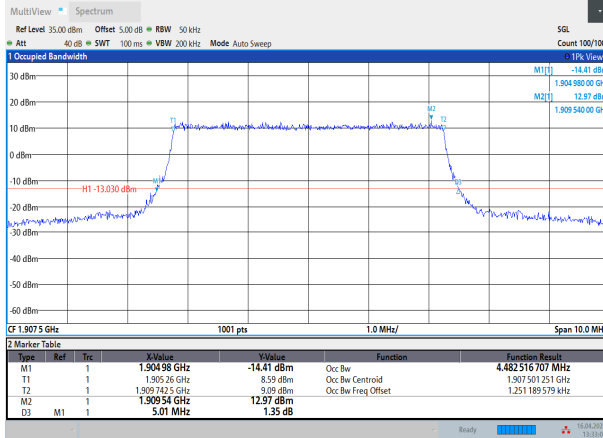
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Band2-5MHz-16QAM-18900-25RB#0



13:31:17 16.04.2022

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



13:33:02 16.04.2022

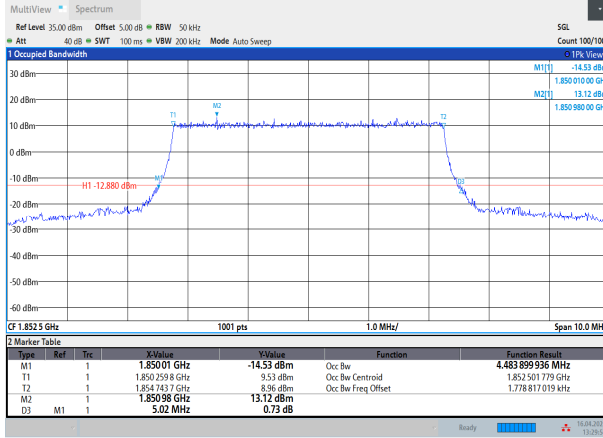


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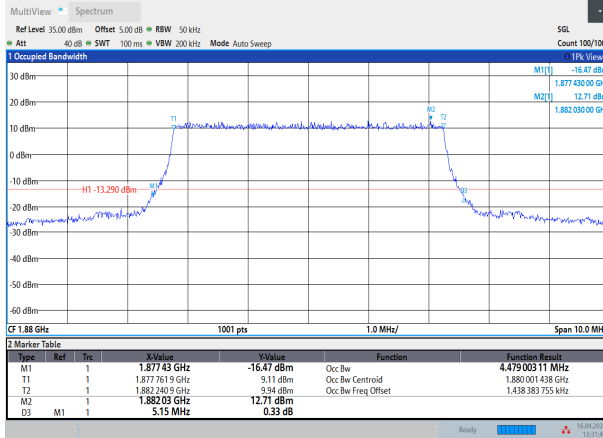
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Band2-5MHz-64QAM-18625-25RB#0



13:29:57 16.04.2022

Band2-5MHz-64QAM-18900-25RB#0



13:31:42 16.04.2022

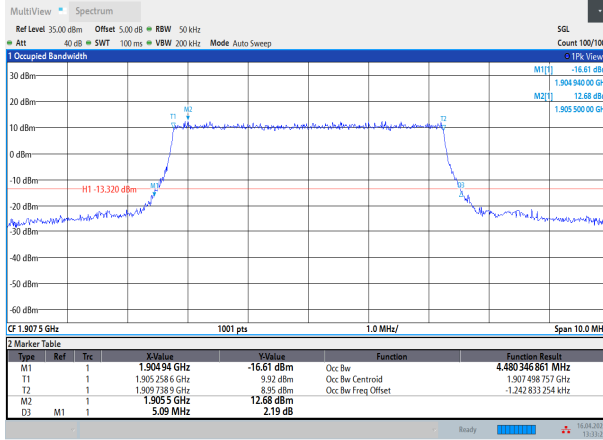


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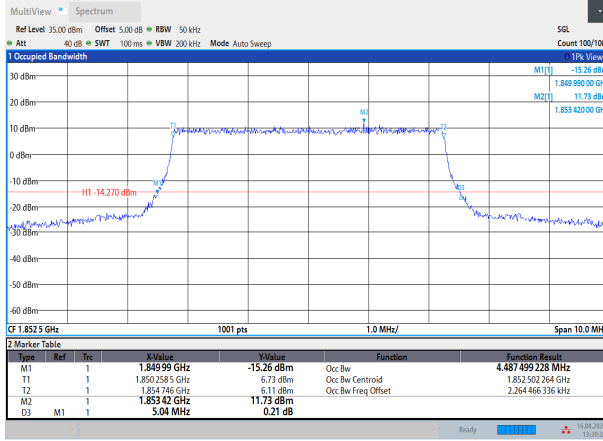
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Band2-5MHz-64QAM-19175-25RB#0



13:33:28 16.04.2022

Band2-5MHz-256QAM-18625-25RB#0



13:30:22 16.04.2022

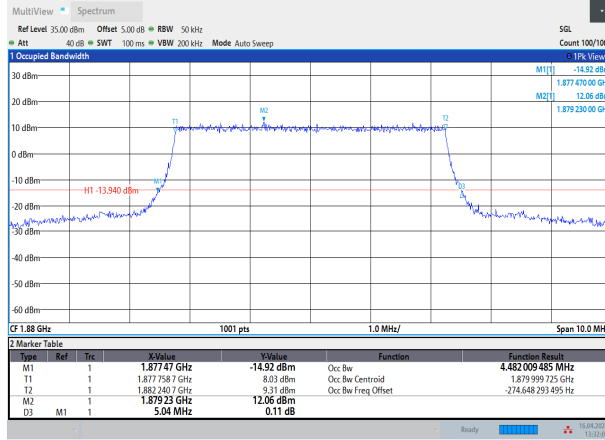


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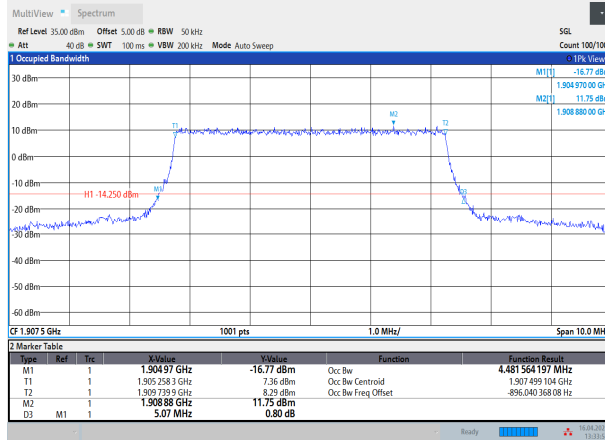
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Band2-5MHz-256QAM-18900-25RB#0



13:32:08 16.04.2022

Band2-5MHz-256QAM-19175-25RB#0



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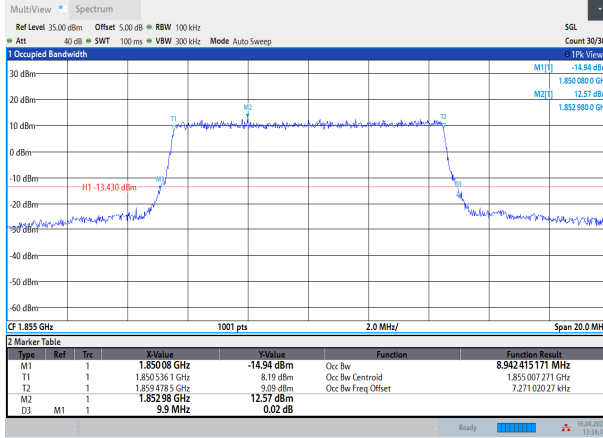


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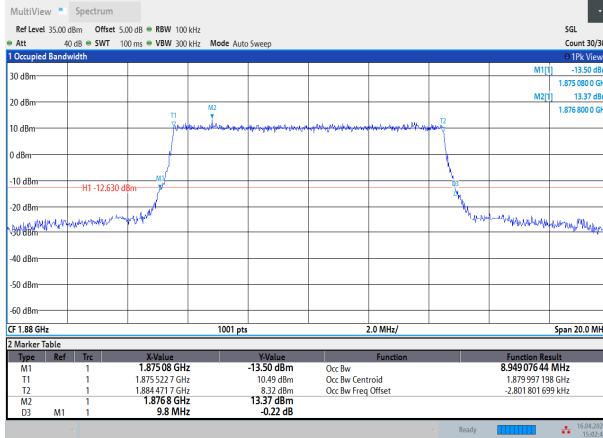
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Band2-10MHz-QPSK-18650-50RB#0



13:34:34 16.04.2022

Band2-10MHz-QPSK-18900-50RB#0



15:02:42 16.04.2022

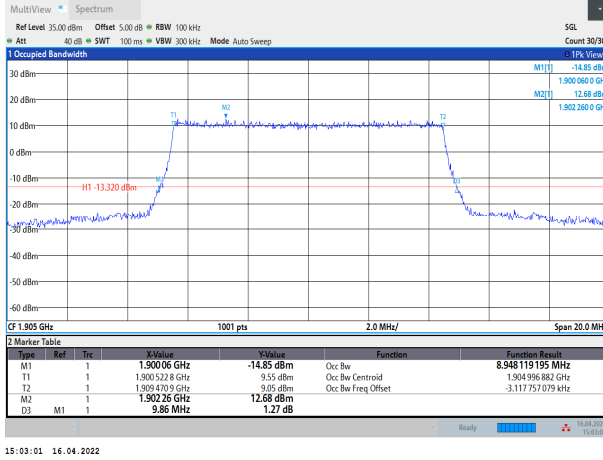


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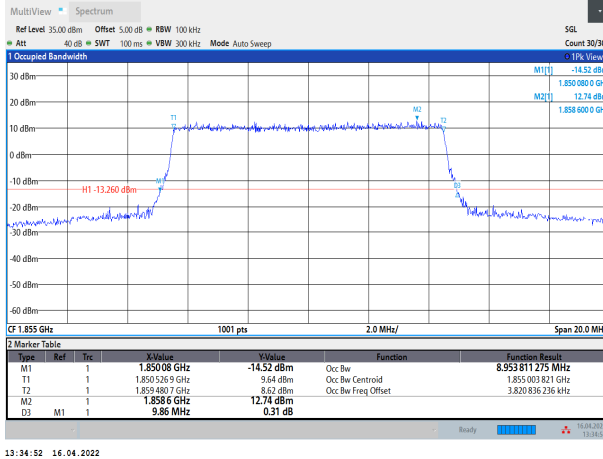
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Band2-10MHz-QPSK-19150-50RB#0



Band2-10MHz-16QAM-18650-50RB#0

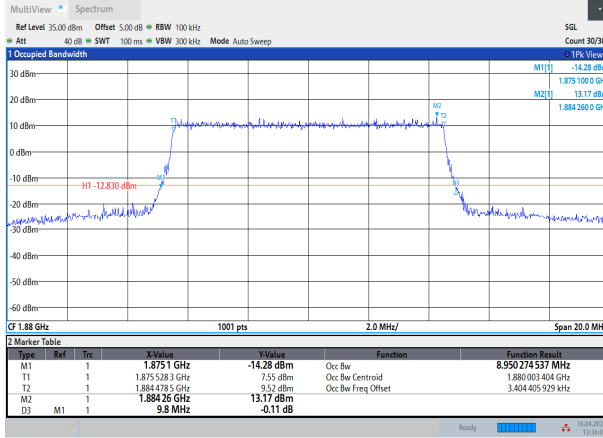


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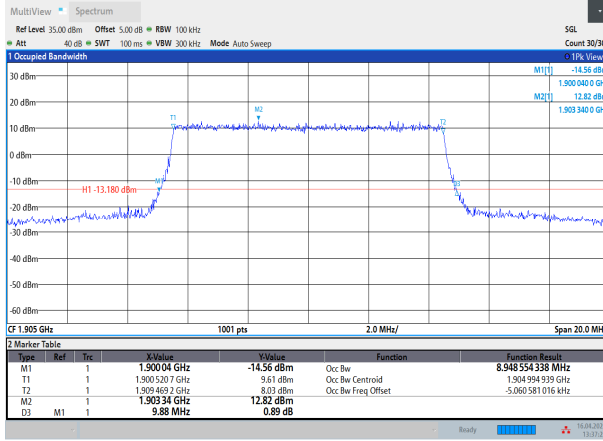
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Band2-10MHz-16QAM-18900-50RB#0



Band2-10MHz-16QAM-19150-50RB#0

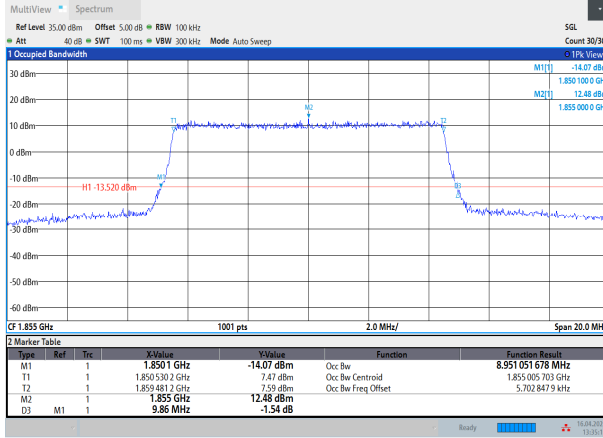


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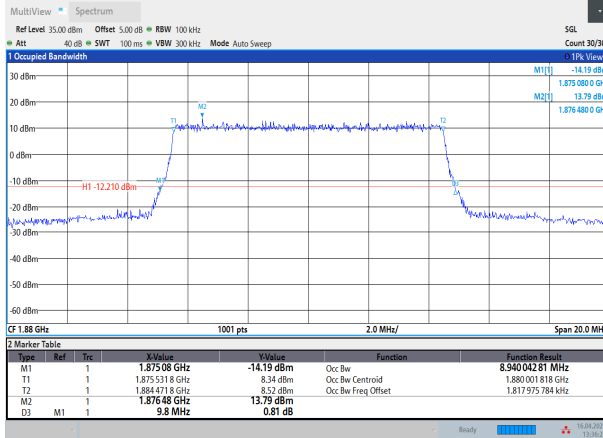
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Band2-10MHz-64QAM-18650-50RB#0



13:35:11 16.04.2022

Band2-10MHz-64QAM-18900-50RB#0



13:36:26 16.04.2022

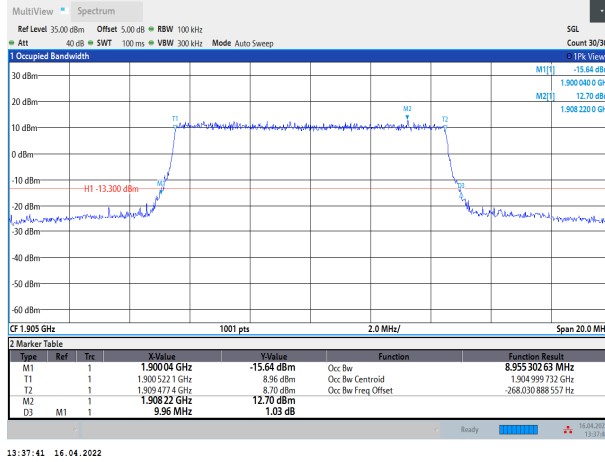


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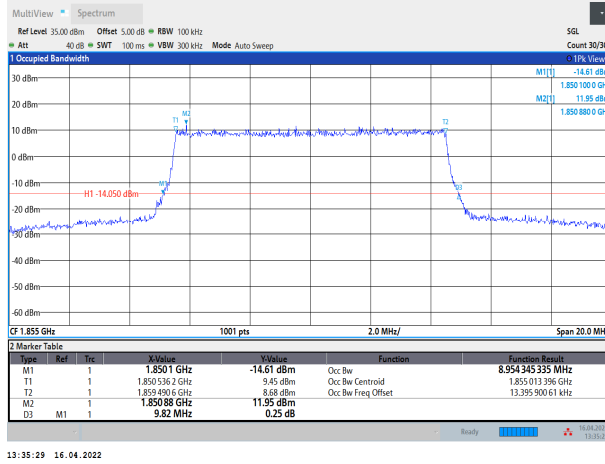
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Band2-10MHz-64QAM-19150-50RB#0



Band2-10MHz-256QAM-18650-50RB#0

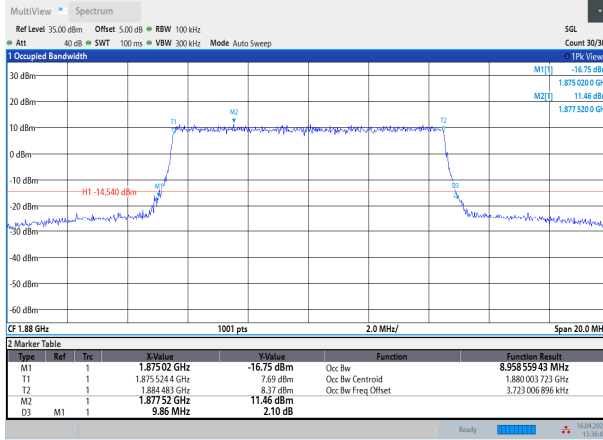


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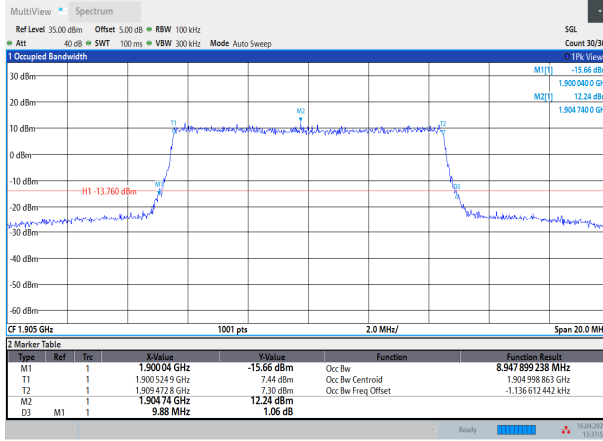
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Band2-10MHz-256QAM-18900-50RB#0



13:36:44 16.04.2022

Band2-10MHz-256QAM-19150-50RB#0



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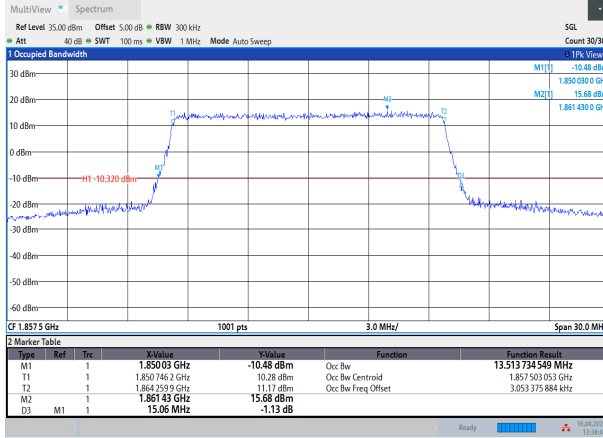


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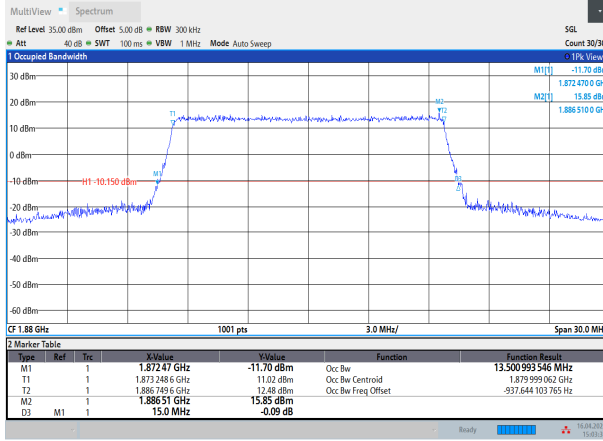
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Band2-15MHz-QPSK-18675-75RB#0



Band2-15MHz-QPSK-18900-75RB#0

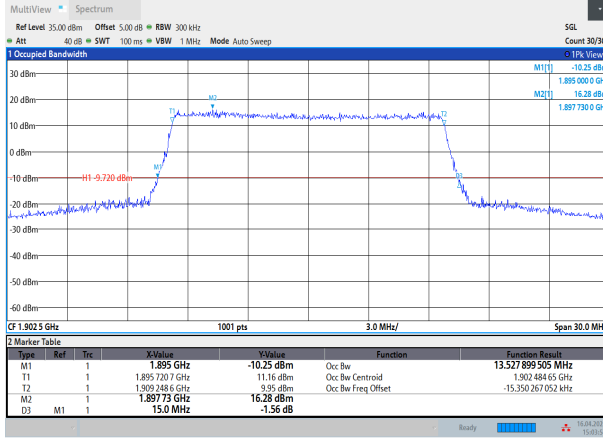


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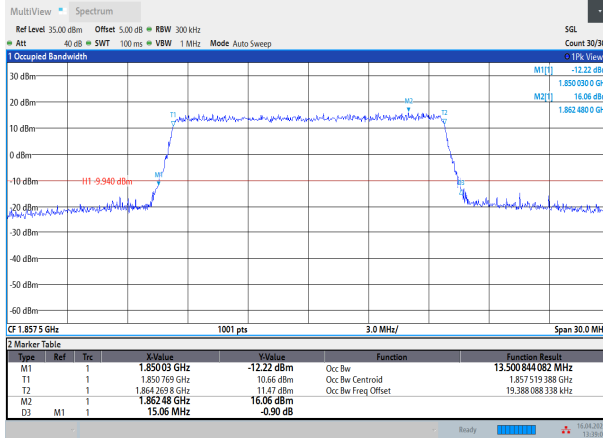
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Band2-15MHz-QPSK-19125-75RB#0



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



13:39:01 16.04.2022

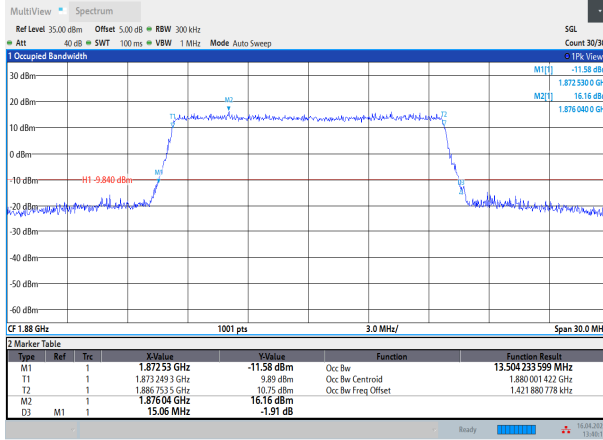


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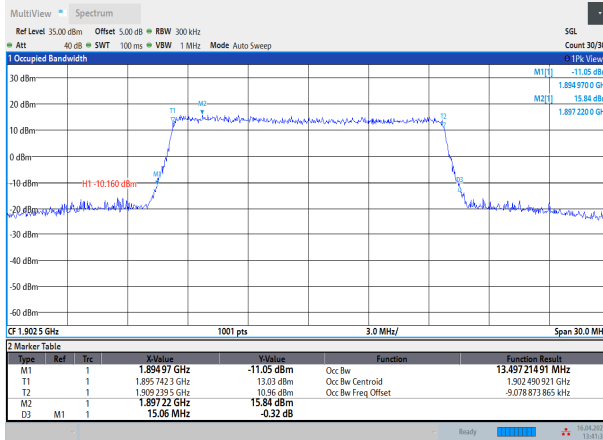
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Band2-15MHz-16QAM-18900-75RB#0



13:40:18 16.04.2022

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



13:41:35 16.04.2022

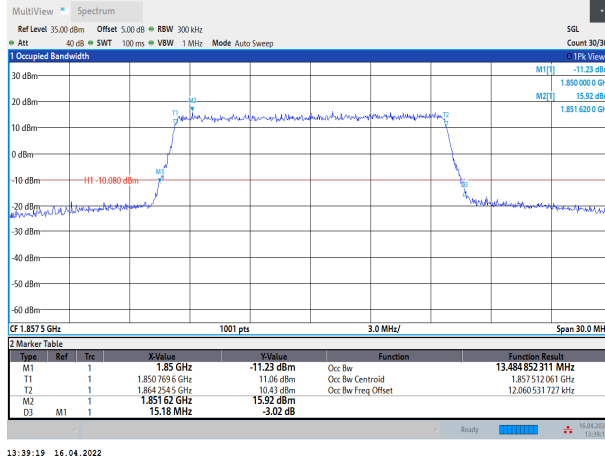


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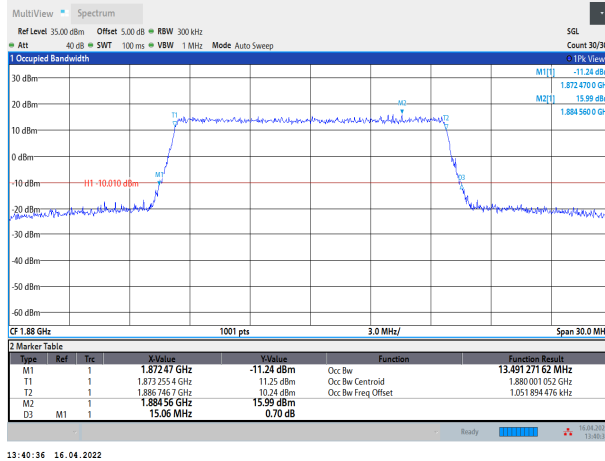
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Band2-15MHz-64QAM-18675-75RB#0



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

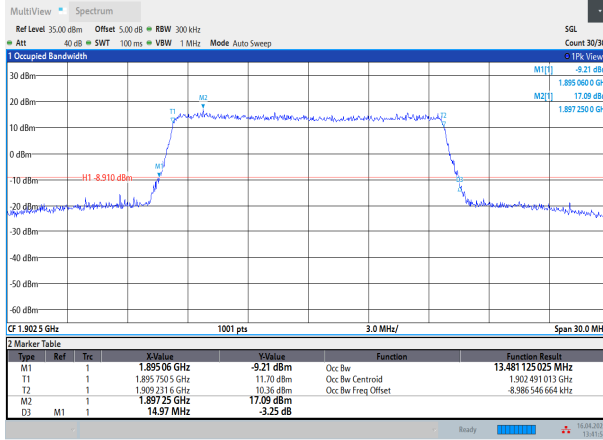


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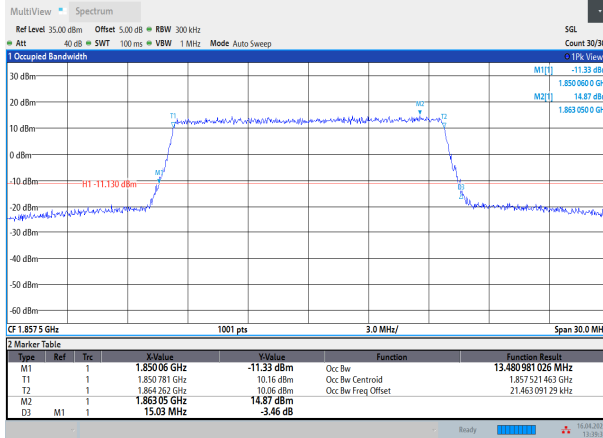
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Band2-15MHz-64QAM-19125-75RB#0



13:41:53 16.04.2022

Band2-15MHz-256QAM-18675-75RB#0



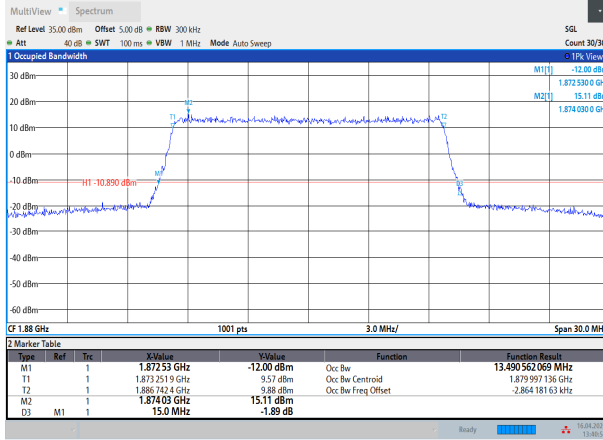
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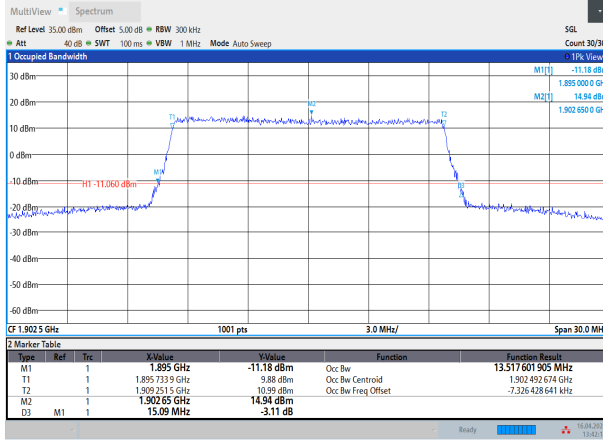
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Band2-15MHz-256QAM-18900-75RB#0



13:40:54 16.04.2022

Band2-15MHz-256QAM-19125-75RB#0



13:42:12 16.04.2022

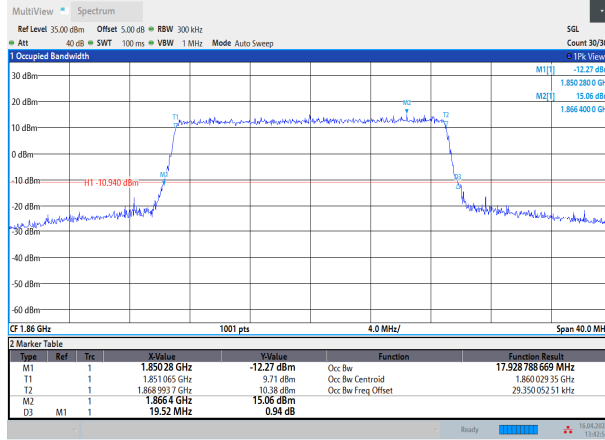


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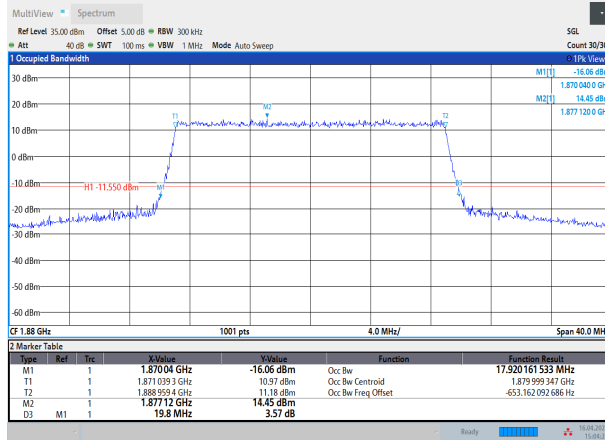
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Band2-20MHz-QPSK-18700-100RB#0



13:42:55 16.04.2022

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



15:04:25 16.04.2022

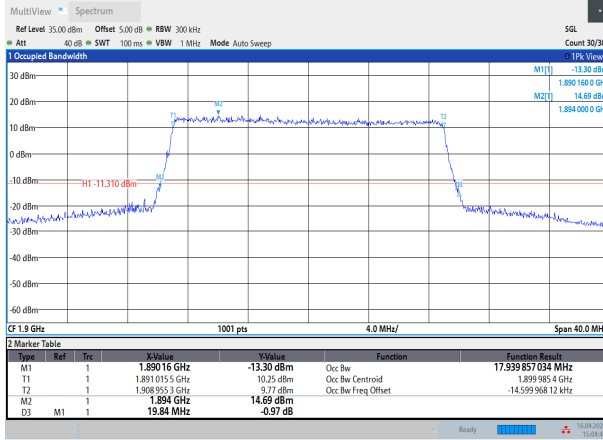


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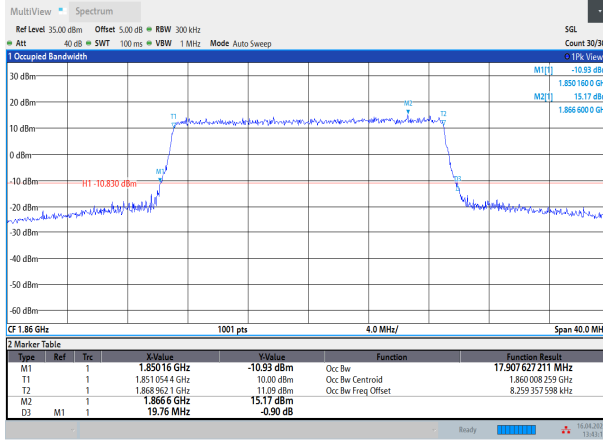
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Band2-20MHz-QPSK-19100-100RB#0



15:04:44 16.04.2022

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



13:43:13 16.04.2022

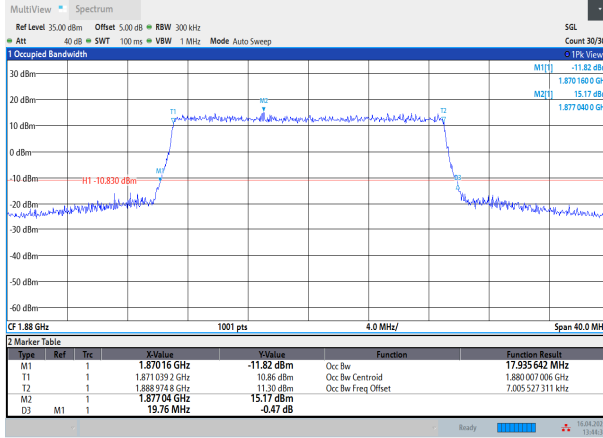


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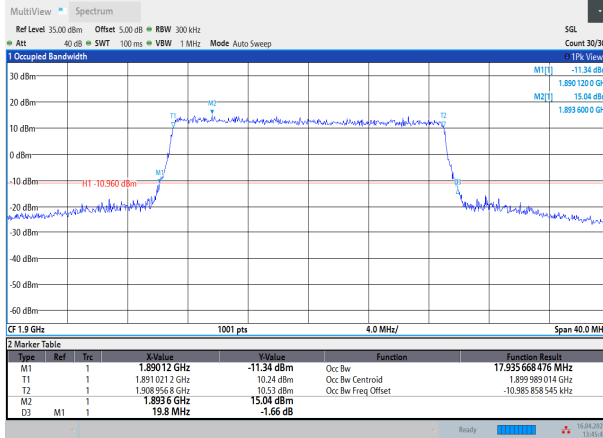
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Band2-20MHz-16QAM-18900-100RB#0



13:44:30 16.04.2022

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



13:45:47 16.04.2022

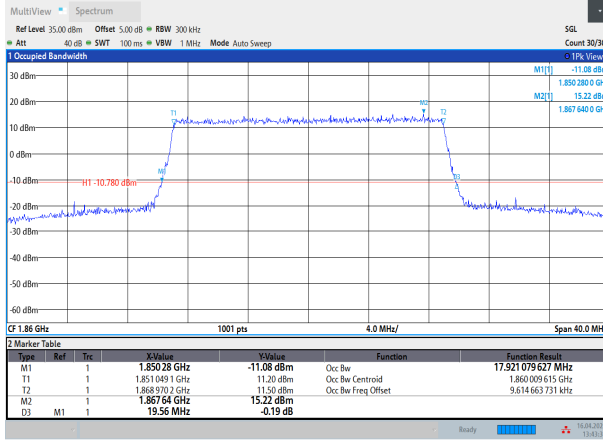


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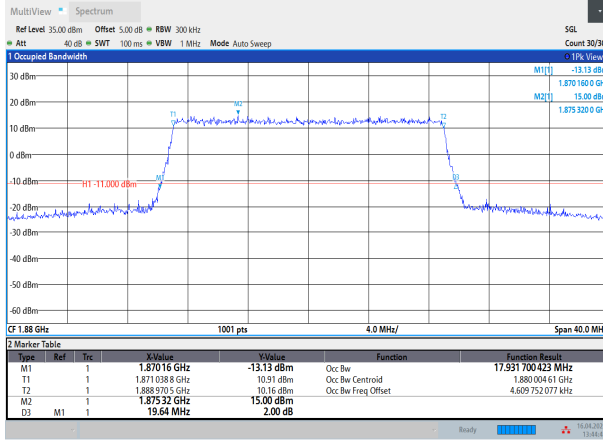
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Band2-20MHz-64QAM-18700-100RB#0



13:43:31 16.04.2022

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



13:44:49 16.04.2022

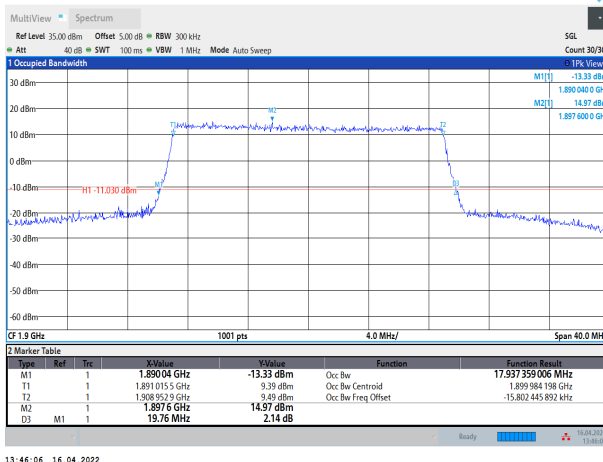


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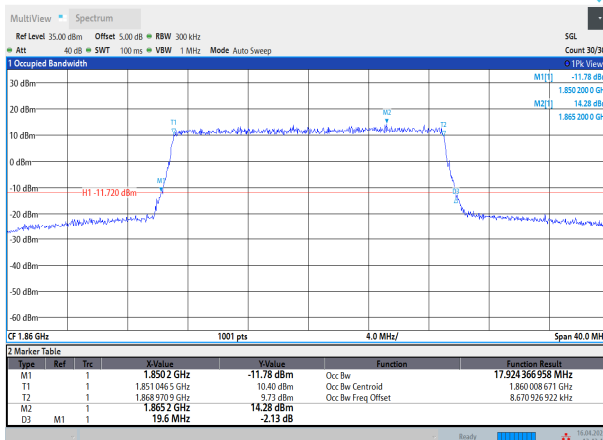
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Band2-20MHz-64QAM-19100-100RB#0



13:46:06 16.04.2022

Band2-20MHz-256QAM-18700-100RB#0



13:43:49 16.04.2022

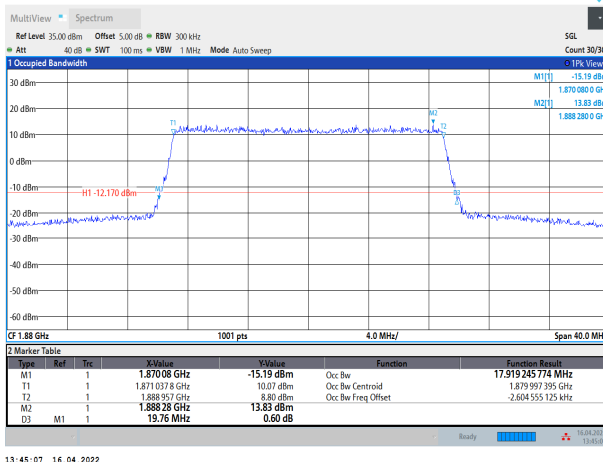


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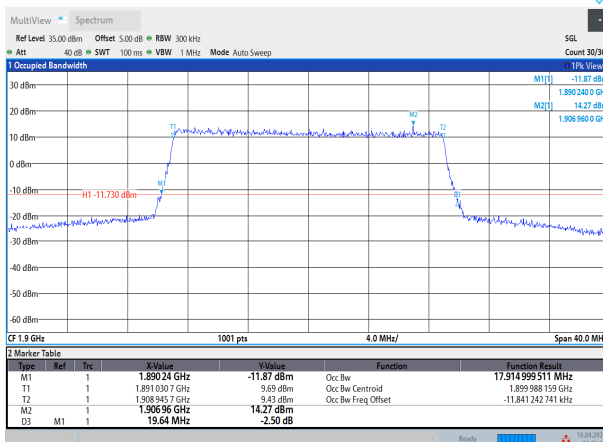
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Band2-20MHz-256QAM-18900-100RB#0



13:45:07 16.04.2022

Band2-20MHz-256QAM-19100-100RB#0



13:46:24 16.04.2022



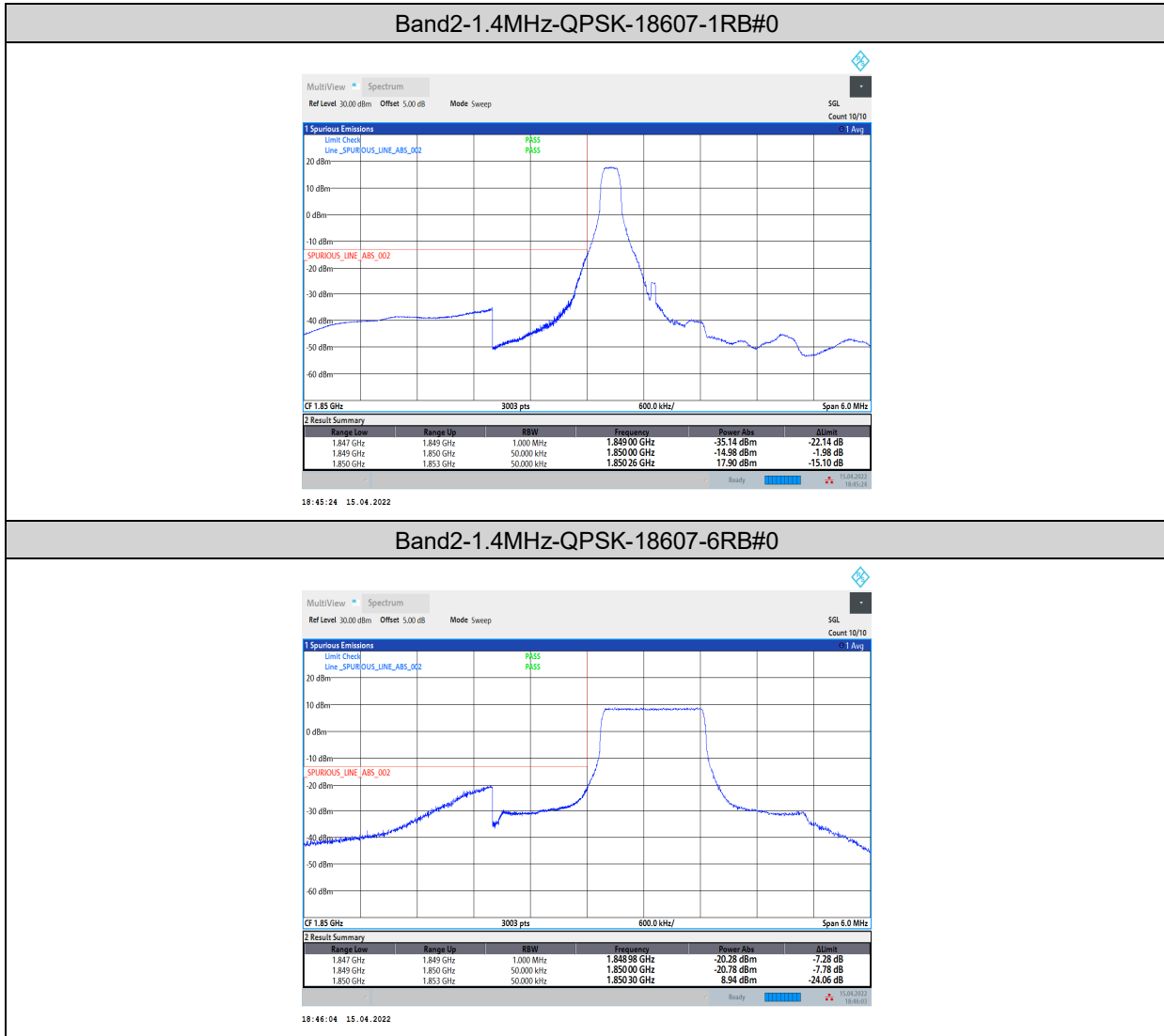
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Band Edge

Test Graphs

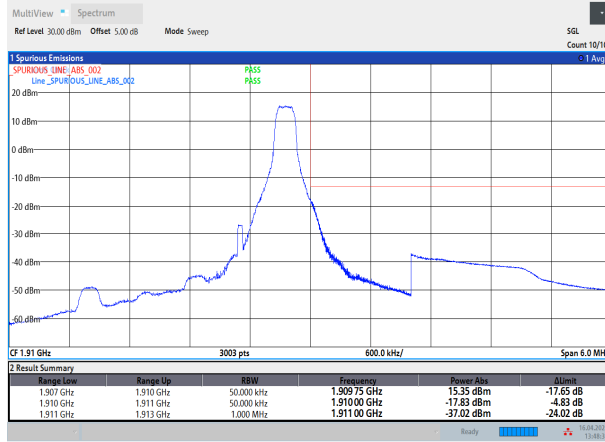


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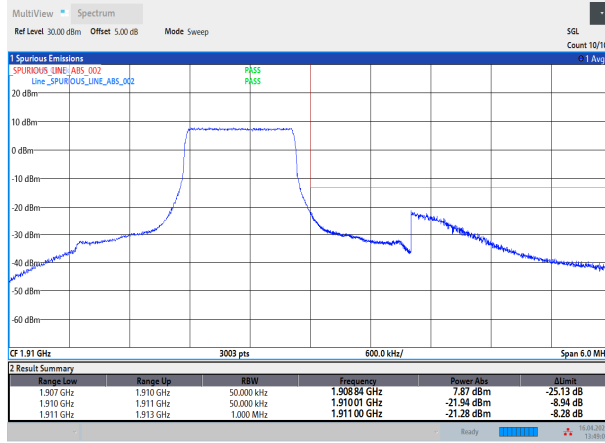
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Band2-1.4MHz-QPSK-19193-1RB#5



13:49:30 16.04.2022

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



13:49:09 16.04.2022

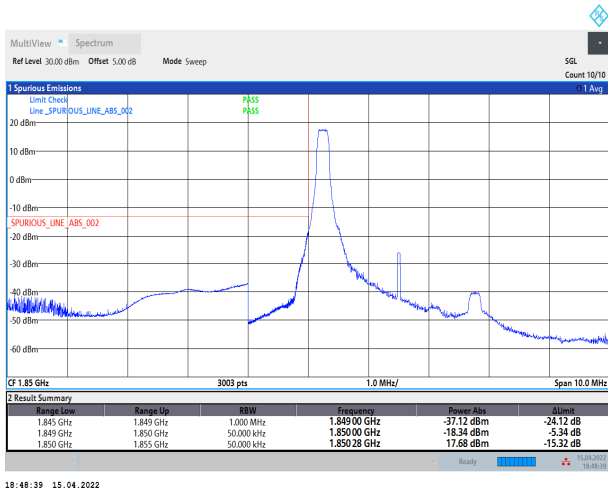


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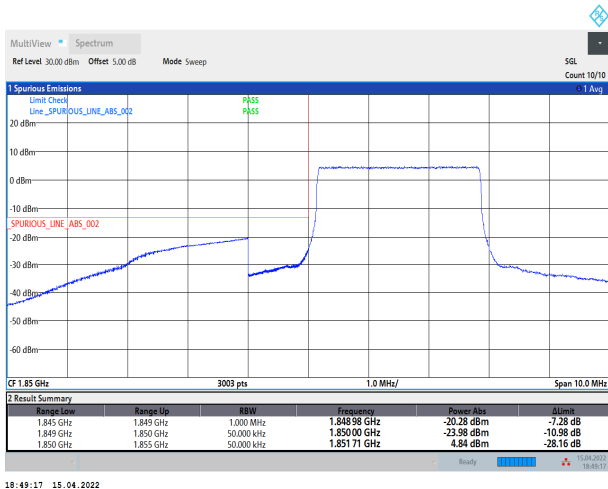
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Band2-3MHz-QPSK-18615-1RB#0



18:49:19 15.04.2022

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



18:49:17 15.04.2022

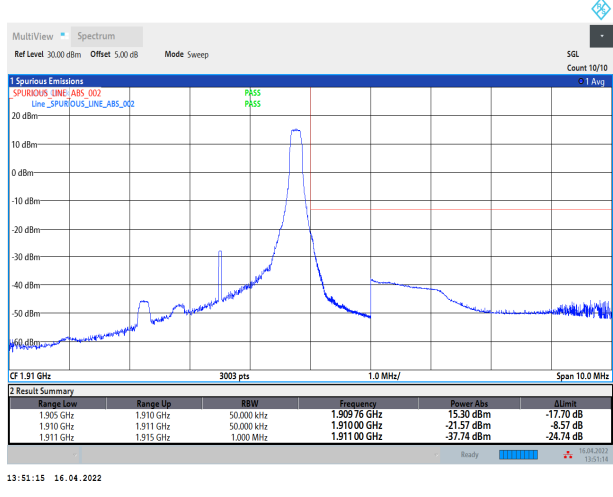


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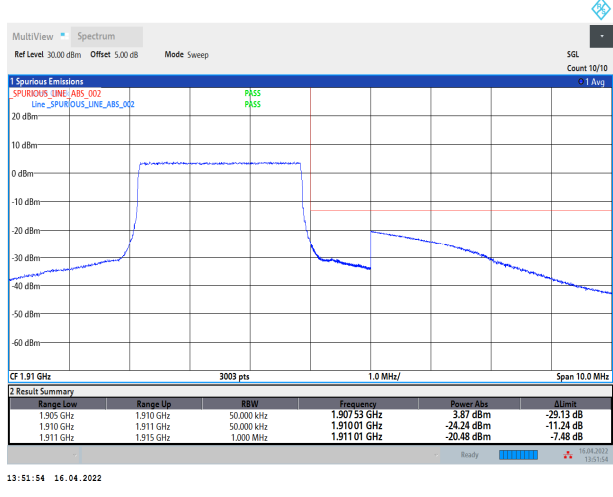
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Band2-3MHz-QPSK-19185-1RB#14



13:51:15 16.04.2022

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



13:51:54 16.04.2022

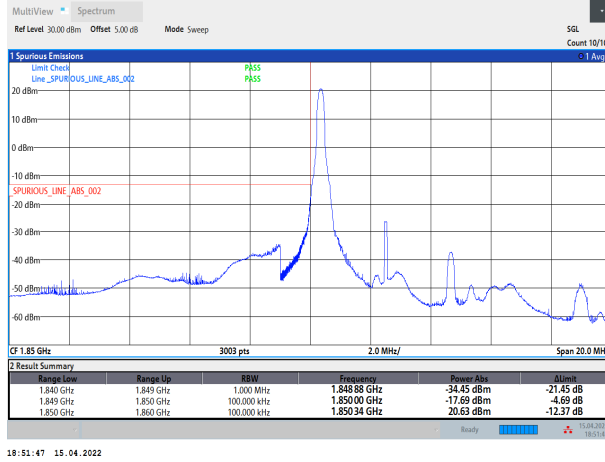


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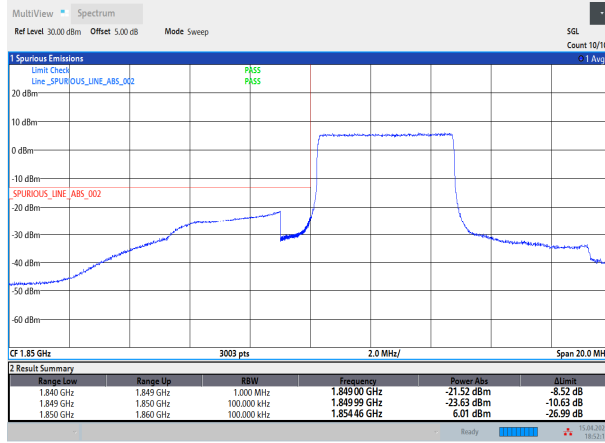
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Band2-5MHz-QPSK-18625-1RB#0



18:51:47 15.04.2022

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



18:52:17 15.04.2022

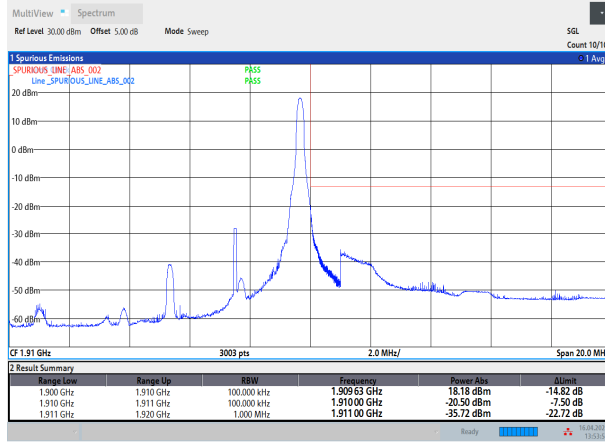


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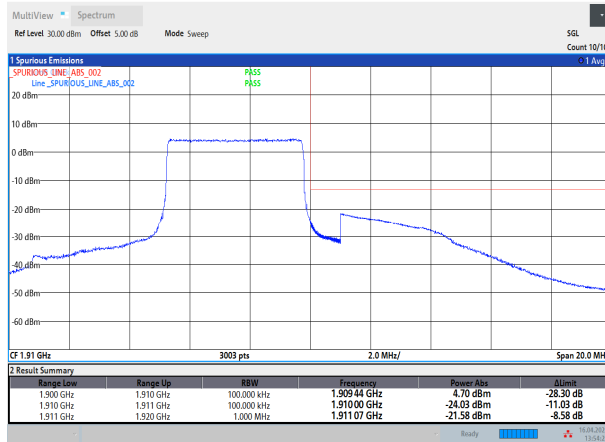
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Band2-5MHz-QPSK-19175-1RB#24



13:53:56 16.04.2022

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



13:54:25 16.04.2022

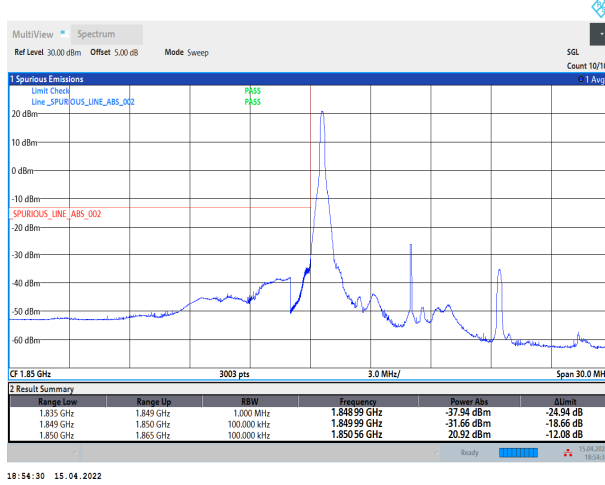


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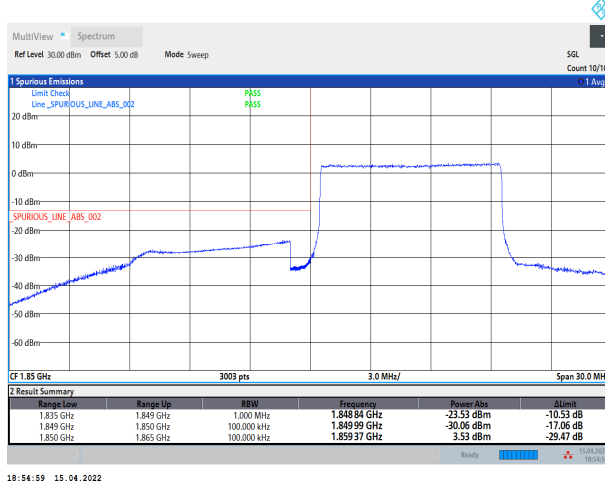
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.Band2-10MHz-QPSK-18650-1RB#0



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

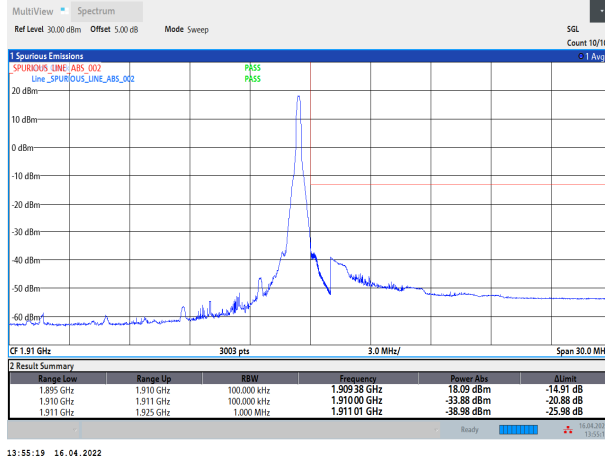


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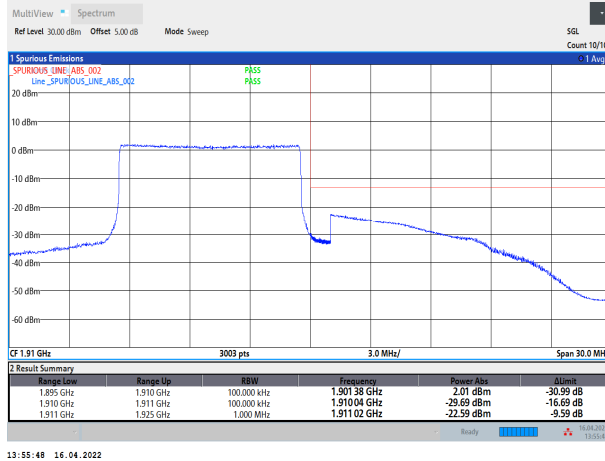
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Band2-10MHz-QPSK-19150-1RB#49



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

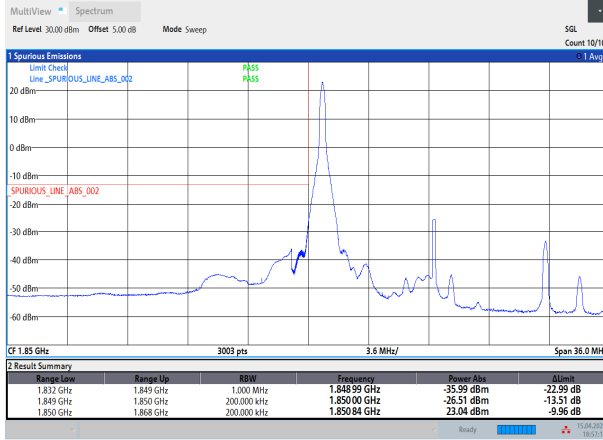


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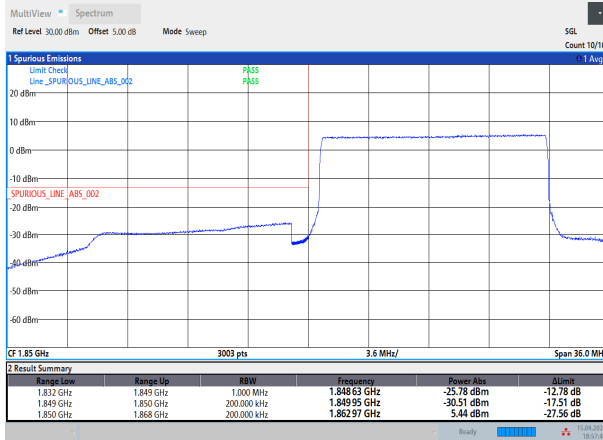
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Band2-15MHz-QPSK-18675-1RB#0



18:57:15 15.04.2022

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



18:57:44 15.04.2022

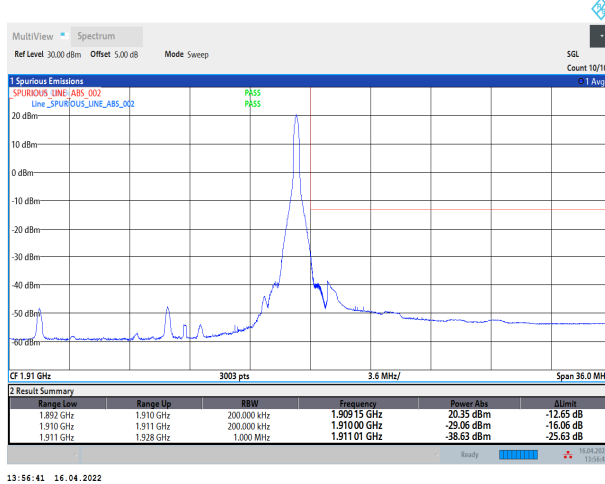


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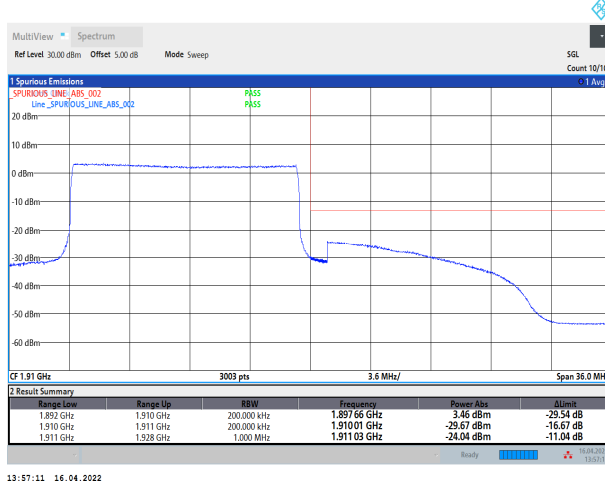
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Band2-15MHz-QPSK-19125-1RB#74



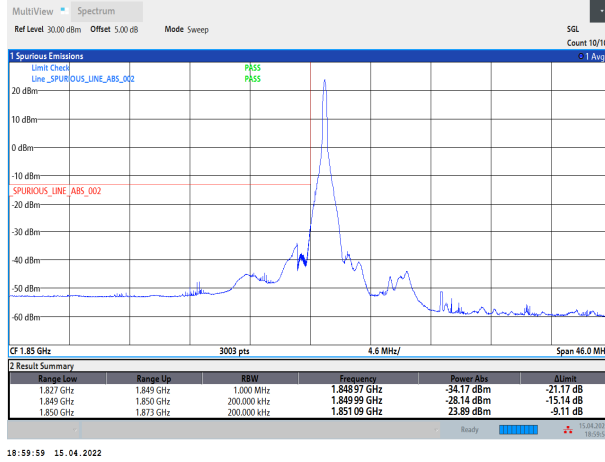
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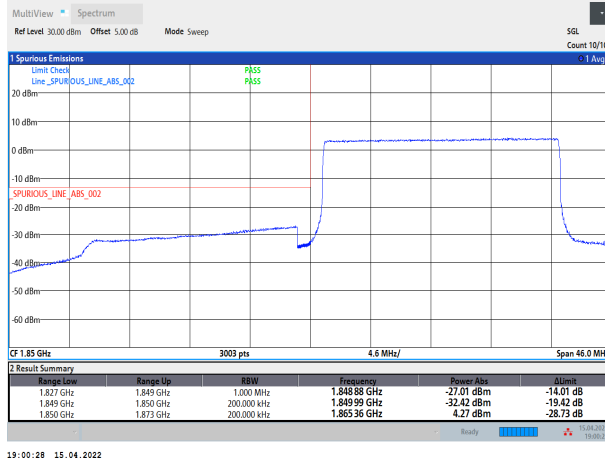
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Band2-20MHz-QPSK-18700-1RB#0



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

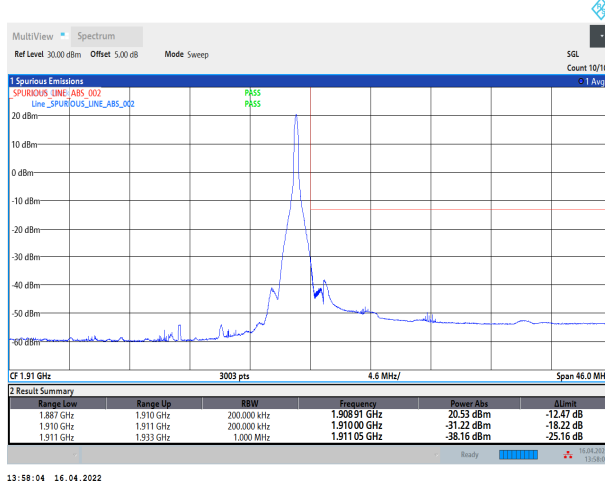


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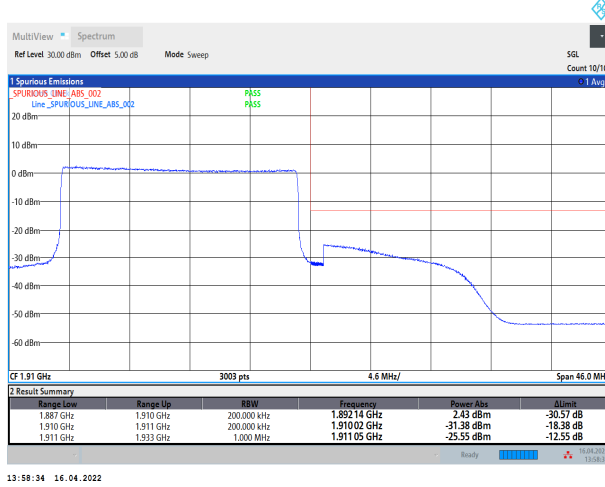
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Band2-20MHz-QPSK-19100-1RB#99



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



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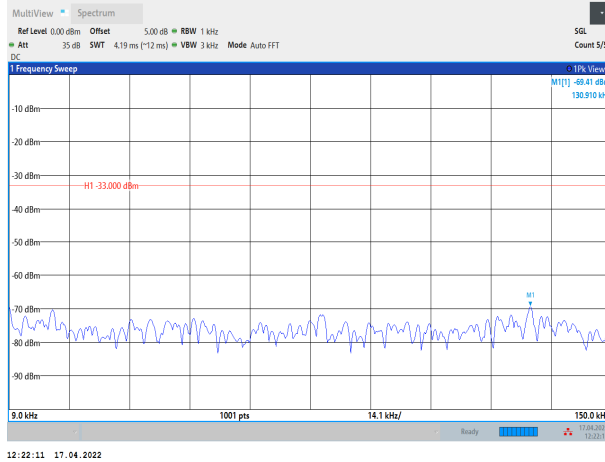
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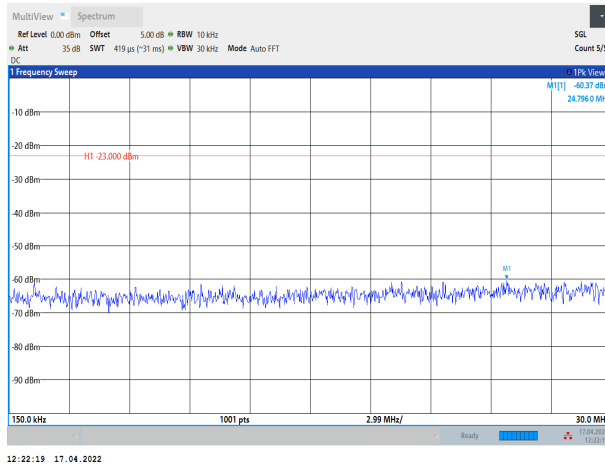
Conducted Spurious Emission

Test Graphs

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



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



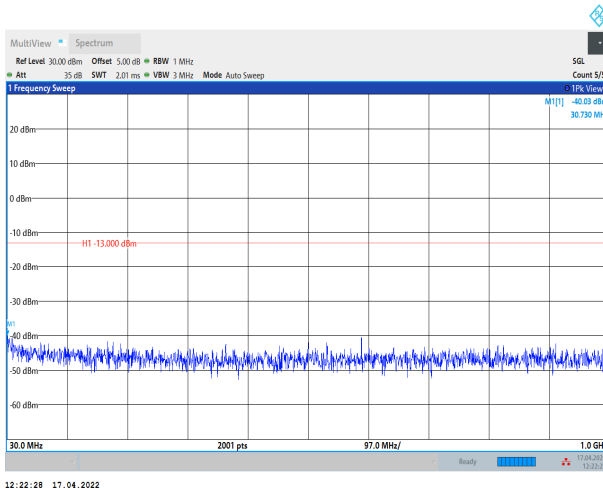
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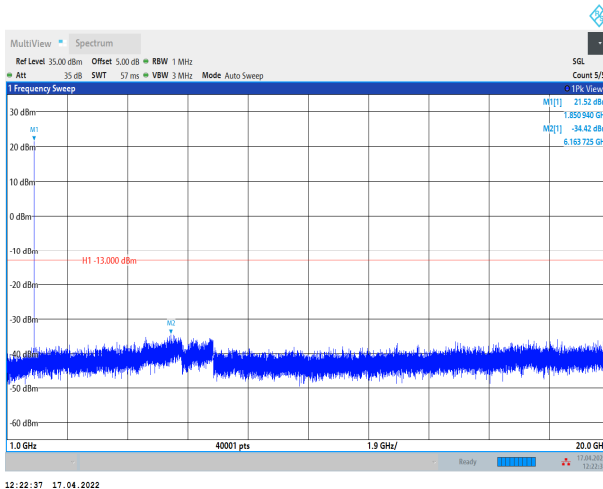
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Band2-20MHz-QPSK-18700-1RB#0-Range3:30~1000MHz



12:22:28 17.04.2022

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



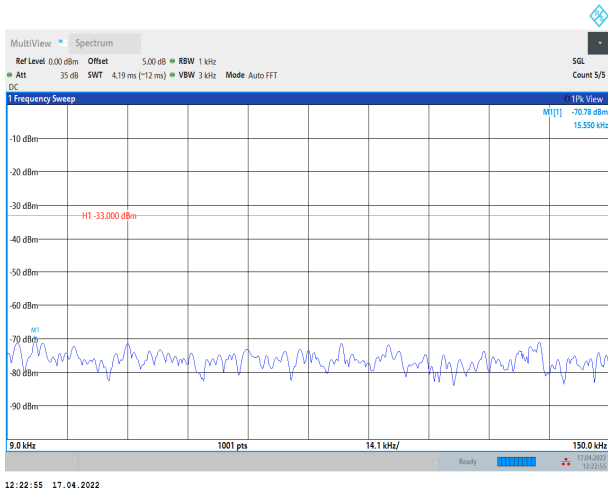
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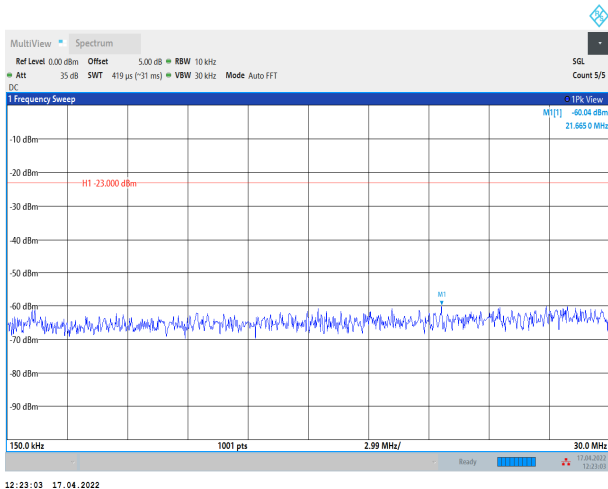
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Band2-20MHz-QPSK-18900-1RB#0-Range1:0.009~0.15MHz



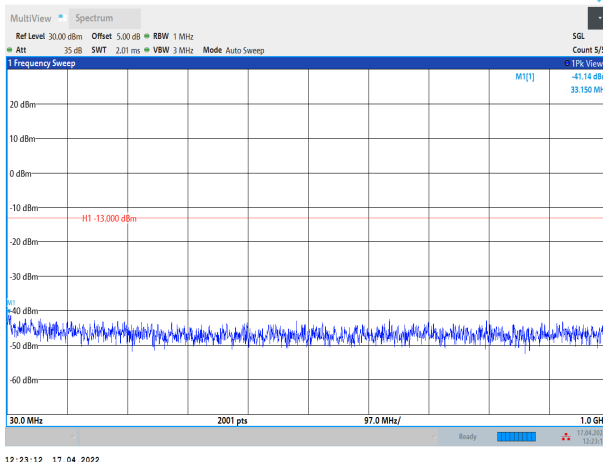
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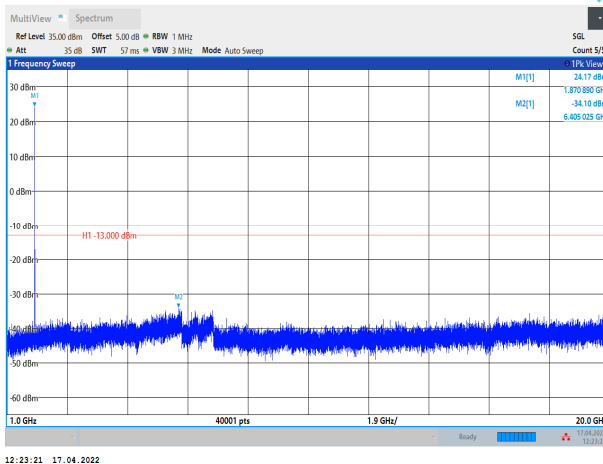
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Band2-20MHz-QPSK-18900-1RB#0-Range3:30~1000MHz



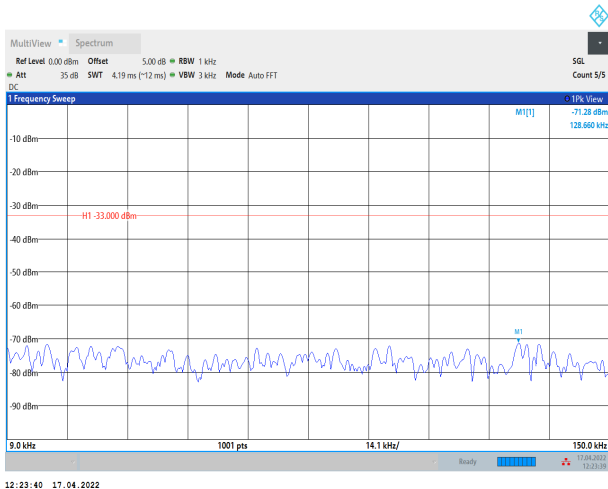
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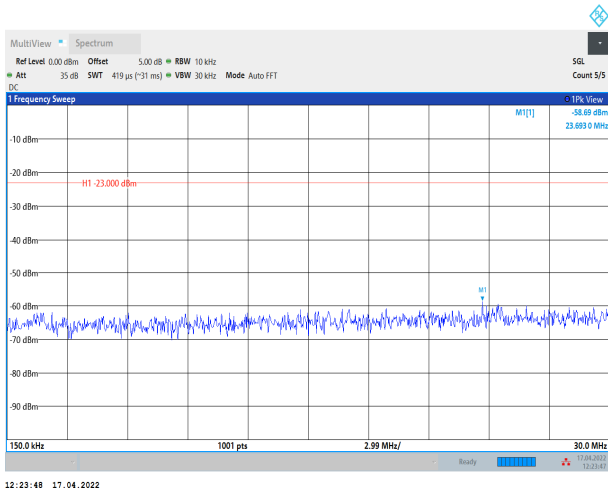
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Band2-20MHz-QPSK-19100-1RB#0-Range2:0.15~30MHz

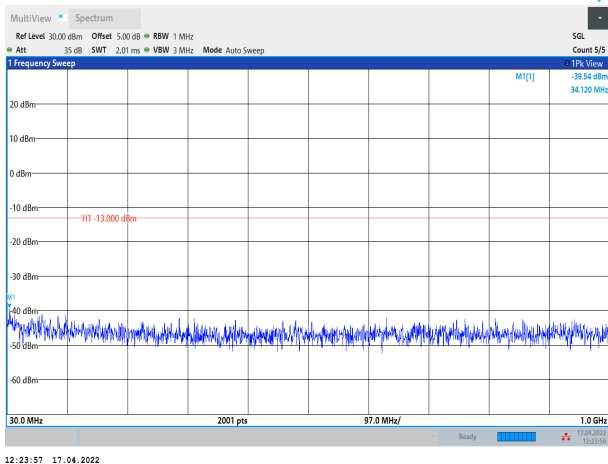


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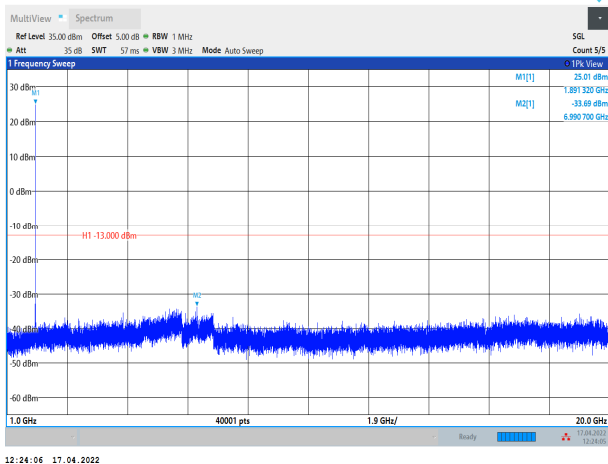
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 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南座 邮编: 215000 t (86-512) 62992980 sgs.china@sgs.com

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



12:33:57 17.04.2022

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



12:24:06 17.04.2022



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Field Strength of Spurious Radiation

Test Band = LTE Band 2_ TM1

Test Channel = Low Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3702.1800	40.51	-45.51	29.98	-70.28	-13.00	57.28	254	359	Horizontal
2	5553.2700	41.10	-45.15	32.97	-66.34	-13.00	53.34	136	177	Horizontal
3	7404.3600	42.69	-43.40	36.49	-59.48	-13.00	46.48	144	328	Horizontal
4	9255.4500	36.19	-40.23	38.38	-60.92	-13.00	47.92	165	282	Horizontal
5	11106.5400	32.08	-37.93	39.09	-62.02	-13.00	49.02	291	360	Horizontal
6	12957.6300	31.01	-37.24	39.79	-61.70	-13.00	48.70	188	268	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3702.1800	41.03	-45.51	29.98	-69.76	-13.00	56.76	255	14	Vertical
2	5553.2700	46.42	-45.15	32.97	-61.02	-13.00	48.02	148	195	Vertical
3	7404.3600	42.71	-43.40	36.49	-59.46	-13.00	46.46	174	104	Vertical
4	9255.4500	36.03	-40.23	38.38	-61.08	-13.00	48.08	156	164	Vertical
5	11106.5400	31.86	-37.93	39.09	-62.24	-13.00	49.24	291	209	Vertical
6	12957.6300	31.52	-37.24	39.79	-61.19	-13.00	48.19	180	299	Vertical



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Test Band = LTE Band 2_ TM1

Test Channel = Mid Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3742.1800	41.30	-45.68	30.12	-69.52	-13.00	56.52	233	255	Horizontal
2	5613.2700	40.13	-45.04	33.07	-67.10	-13.00	54.10	216	104	Horizontal
3	7484.3600	39.47	-43.18	36.45	-62.52	-13.00	49.52	154	269	Horizontal
4	9355.4500	35.29	-40.00	38.46	-61.52	-13.00	48.52	148	104	Horizontal
5	11226.5400	33.46	-37.40	39.11	-60.09	-13.00	47.09	186	44	Horizontal
6	13097.6300	30.37	-37.01	39.87	-62.02	-13.00	49.02	291	283	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3742.1800	41.21	-45.68	30.12	-69.61	-13.00	56.61	145	25	Vertical
2	5613.2700	42.06	-45.04	33.07	-65.17	-13.00	52.17	251	208	Vertical
3	7484.3600	40.06	-43.18	36.45	-61.93	-13.00	48.93	185	59	Vertical
4	9355.4500	34.85	-40.00	38.46	-61.96	-13.00	48.96	163	28	Vertical
5	11226.5400	33.03	-37.40	39.11	-60.52	-13.00	47.52	251	126	Vertical
6	13097.6300	31.10	-37.01	39.87	-61.29	-13.00	48.29	145	44	Vertical



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

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3782.1800	41.47	-45.85	30.27	-69.37	-13.00	56.37	266	104	Horizontal
2	5673.2700	40.33	-44.91	33.29	-66.55	-13.00	53.55	147	343	Horizontal
3	7564.3600	43.46	-43.00	36.41	-58.40	-13.00	45.40	185	285	Horizontal
4	9455.4500	34.95	-40.05	38.48	-61.89	-13.00	48.89	196	196	Horizontal
5	11346.5400	31.68	-37.40	39.11	-61.87	-13.00	48.87	141	360	Horizontal
6	13237.6300	29.68	-37.08	39.96	-62.69	-13.00	49.69	152	135	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3782.1800	42.78	-45.85	30.27	-68.06	-13.00	55.06	241	75	Vertical
2	5673	47.58	-44.91	33.29	-59.30	-13.00	46.30	233	181	Vertical
3	7564.3600	43.77	-43.00	36.41	-58.09	-13.00	45.09	142	29	Vertical
4	9455.4500	34.82	-40.05	38.48	-62.02	-13.00	49.02	166	330	Vertical
5	11346.5400	31.66	-37.40	39.11	-61.89	-13.00	48.89	258	239	Vertical
6	13237.6300	30.00	-37.08	39.96	-62.37	-13.00	49.37	191	44	Vertical

Remark:

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

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Pre-amplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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	-3.10	-0.001649	PASS
Band2	20MHz	QPSK	18900	100RB#0	VN	NT	-1.20	-0.000638	PASS
Band2	20MHz	QPSK	18900	100RB#0	VH	NT	-2.60	-0.001383	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band2	20MHz	QPSK	18900	100RB#0	NV	-30	-2.90	-0.001543	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	-20	-2.00	-0.001064	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	-10	-3.10	-0.001649	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	0	-1.70	-0.000904	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	10	-2.00	-0.001064	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	20	-2.10	-0.001117	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	30	0.30	0.000160	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	40	-1.60	-0.000851	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	50	-1.50	-0.000798	PASS

---End of Attachment---



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