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Rev.: 01
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Appendix B.1

LTE Band 2



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	22.34	24.32	33	PASS
Band2	1.4MHz	QPSK	18607	1RB#2	23.00	24.98	33	PASS
Band2	1.4MHz	QPSK	18607	1RB#5	22.22	24.2	33	PASS
Band2	1.4MHz	QPSK	18607	6RB#0	21.73	23.71	33	PASS
Band2	1.4MHz	QPSK	18900	1RB#0	22.23	24.21	33	PASS
Band2	1.4MHz	QPSK	18900	1RB#2	22.92	24.9	33	PASS
Band2	1.4MHz	QPSK	18900	1RB#5	22.19	24.17	33	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	21.70	23.68	33	PASS
Band2	1.4MHz	QPSK	19193	1RB#0	22.12	24.1	33	PASS
Band2	1.4MHz	QPSK	19193	1RB#2	22.66	24.64	33	PASS
Band2	1.4MHz	QPSK	19193	1RB#5	21.85	23.83	33	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	21.23	23.21	33	PASS
Band2	1.4MHz	16QAM	18607	1RB#0	21.40	23.38	33	PASS
Band2	1.4MHz	16QAM	18607	1RB#2	22.15	24.13	33	PASS
Band2	1.4MHz	16QAM	18607	1RB#5	21.38	23.36	33	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	20.87	22.85	33	PASS
Band2	1.4MHz	16QAM	18900	1RB#0	21.35	23.33	33	PASS
Band2	1.4MHz	16QAM	18900	1RB#2	22.09	24.07	33	PASS
Band2	1.4MHz	16QAM	18900	1RB#5	21.30	23.28	33	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	20.57	22.55	33	PASS
Band2	1.4MHz	16QAM	19193	1RB#0	20.84	22.82	33	PASS
Band2	1.4MHz	16QAM	19193	1RB#2	21.52	23.5	33	PASS
Band2	1.4MHz	16QAM	19193	1RB#5	20.67	22.65	33	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	20.21	22.19	33	PASS
Band2	3MHz	QPSK	18615	1RB#0	21.70	23.68	33	PASS
Band2	3MHz	QPSK	18615	1RB#8	23.02	25	33	PASS
Band2	3MHz	QPSK	18615	1RB#14	21.39	23.37	33	PASS



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Band2	3MHz	QPSK	18615	15RB#0	21.60	23.58	33	PASS
Band2	3MHz	QPSK	18900	1RB#0	21.76	23.74	33	PASS
Band2	3MHz	QPSK	18900	1RB#8	23.14	25.12	33	PASS
Band2	3MHz	QPSK	18900	1RB#14	21.59	23.57	33	PASS
Band2	3MHz	QPSK	18900	15RB#0	21.71	23.69	33	PASS
Band2	3MHz	QPSK	19185	1RB#0	21.74	23.72	33	PASS
Band2	3MHz	QPSK	19185	1RB#8	22.96	24.94	33	PASS
Band2	3MHz	QPSK	19185	1RB#14	21.30	23.28	33	PASS
Band2	3MHz	QPSK	19185	15RB#0	21.34	23.32	33	PASS
Band2	3MHz	16QAM	18615	1RB#0	20.71	22.69	33	PASS
Band2	3MHz	16QAM	18615	1RB#8	22.19	24.17	33	PASS
Band2	3MHz	16QAM	18615	1RB#14	20.56	22.54	33	PASS
Band2	3MHz	16QAM	18615	15RB#0	20.83	22.81	33	PASS
Band2	3MHz	16QAM	18900	1RB#0	20.86	22.84	33	PASS
Band2	3MHz	16QAM	18900	1RB#8	22.28	24.26	33	PASS
Band2	3MHz	16QAM	18900	1RB#14	20.70	22.68	33	PASS
Band2	3MHz	16QAM	18900	15RB#0	20.65	22.63	33	PASS
Band2	3MHz	16QAM	19185	1RB#0	20.51	22.49	33	PASS
Band2	3MHz	16QAM	19185	1RB#8	21.87	23.85	33	PASS
Band2	3MHz	16QAM	19185	1RB#14	20.04	22.02	33	PASS
Band2	3MHz	16QAM	19185	15RB#0	20.24	22.22	33	PASS
Band2	5MHz	QPSK	18625	1RB#0	21.96	23.94	33	PASS
Band2	5MHz	QPSK	18625	1RB#12	22.67	24.65	33	PASS
Band2	5MHz	QPSK	18625	1RB#24	21.72	23.7	33	PASS
Band2	5MHz	QPSK	18625	25RB#0	21.75	23.73	33	PASS
Band2	5MHz	QPSK	18900	1RB#0	22.08	24.06	33	PASS
Band2	5MHz	QPSK	18900	1RB#12	22.71	24.69	33	PASS
Band2	5MHz	QPSK	18900	1RB#24	21.78	23.76	33	PASS
Band2	5MHz	QPSK	18900	25RB#0	21.76	23.74	33	PASS
Band2	5MHz	QPSK	19175	1RB#0	22.24	24.22	33	PASS
Band2	5MHz	QPSK	19175	1RB#12	22.54	24.52	33	PASS
Band2	5MHz	QPSK	19175	1RB#24	21.46	23.44	33	PASS
Band2	5MHz	QPSK	19175	25RB#0	21.46	23.44	33	PASS



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Band2	5MHz	16QAM	18625	1RB#0	20.95	22.93	33	PASS
Band2	5MHz	16QAM	18625	1RB#12	21.67	23.65	33	PASS
Band2	5MHz	16QAM	18625	1RB#24	20.68	22.66	33	PASS
Band2	5MHz	16QAM	18625	25RB#0	20.86	22.84	33	PASS
Band2	5MHz	16QAM	18900	1RB#0	21.19	23.17	33	PASS
Band2	5MHz	16QAM	18900	1RB#12	21.89	23.87	33	PASS
Band2	5MHz	16QAM	18900	1RB#24	20.97	22.95	33	PASS
Band2	5MHz	16QAM	18900	25RB#0	20.73	22.71	33	PASS
Band2	5MHz	16QAM	19175	1RB#0	21.08	23.06	33	PASS
Band2	5MHz	16QAM	19175	1RB#12	21.49	23.47	33	PASS
Band2	5MHz	16QAM	19175	1RB#24	20.41	22.39	33	PASS
Band2	5MHz	16QAM	19175	25RB#0	20.48	22.46	33	PASS
Band2	10MHz	QPSK	18650	1RB#0	21.92	23.9	33	PASS
Band2	10MHz	QPSK	18650	1RB#24	22.84	24.82	33	PASS
Band2	10MHz	QPSK	18650	1RB#49	21.65	23.63	33	PASS
Band2	10MHz	QPSK	18650	50RB#0	21.87	23.85	33	PASS
Band2	10MHz	QPSK	18900	1RB#0	22.31	24.29	33	PASS
Band2	10MHz	QPSK	18900	1RB#24	22.89	24.87	33	PASS
Band2	10MHz	QPSK	18900	1RB#49	21.55	23.53	33	PASS
Band2	10MHz	QPSK	18900	50RB#0	21.90	23.88	33	PASS
Band2	10MHz	QPSK	19150	1RB#0	22.50	24.48	33	PASS
Band2	10MHz	QPSK	19150	1RB#24	22.74	24.72	33	PASS
Band2	10MHz	QPSK	19150	1RB#49	21.02	23	33	PASS
Band2	10MHz	QPSK	19150	50RB#0	21.77	23.75	33	PASS
Band2	10MHz	16QAM	18650	1RB#0	21.90	23.88	33	PASS
Band2	10MHz	16QAM	18650	1RB#24	22.73	24.71	33	PASS
Band2	10MHz	16QAM	18650	1RB#49	21.54	23.52	33	PASS
Band2	10MHz	16QAM	18650	27RB#0	21.87	23.85	33	PASS
Band2	10MHz	16QAM	18900	1RB#0	21.86	23.84	33	PASS
Band2	10MHz	16QAM	18900	1RB#24	22.26	24.24	33	PASS
Band2	10MHz	16QAM	18900	1RB#49	20.87	22.85	33	PASS
Band2	10MHz	16QAM	18900	27RB#0	21.49	23.47	33	PASS
Band2	10MHz	16QAM	19150	1RB#0	21.67	23.65	33	PASS



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Band2	10MHz	16QAM	19150	1RB#24	22.13	24.11	33	PASS
Band2	10MHz	16QAM	19150	1RB#49	20.32	22.3	33	PASS
Band2	10MHz	16QAM	19150	27RB#0	21.57	23.55	33	PASS
Band2	15MHz	QPSK	18675	1RB#0	22.71	24.69	33	PASS
Band2	15MHz	QPSK	18675	1RB#38	22.75	24.73	33	PASS
Band2	15MHz	QPSK	18675	1RB#74	22.24	24.22	33	PASS
Band2	15MHz	QPSK	18675	75RB#0	21.93	23.91	33	PASS
Band2	15MHz	QPSK	18900	1RB#0	23.05	25.03	33	PASS
Band2	15MHz	QPSK	18900	1RB#38	22.74	24.72	33	PASS
Band2	15MHz	QPSK	18900	1RB#74	22.01	23.99	33	PASS
Band2	15MHz	QPSK	18900	75RB#0	21.91	23.89	33	PASS
Band2	15MHz	QPSK	19125	1RB#0	23.39	25.37	33	PASS
Band2	15MHz	QPSK	19125	1RB#38	22.80	24.78	33	PASS
Band2	15MHz	QPSK	19125	1RB#74	21.41	23.39	33	PASS
Band2	15MHz	QPSK	19125	75RB#0	21.90	23.88	33	PASS
Band2	15MHz	16QAM	18675	1RB#0	22.24	24.22	33	PASS
Band2	15MHz	16QAM	18675	1RB#38	22.26	24.24	33	PASS
Band2	15MHz	16QAM	18675	1RB#74	21.77	23.75	33	PASS
Band2	15MHz	16QAM	18675	27RB#0	21.41	23.39	33	PASS
Band2	15MHz	16QAM	18900	1RB#0	22.59	24.57	33	PASS
Band2	15MHz	16QAM	18900	1RB#38	22.29	24.27	33	PASS
Band2	15MHz	16QAM	18900	1RB#74	21.39	23.37	33	PASS
Band2	15MHz	16QAM	18900	27RB#0	21.34	23.32	33	PASS
Band2	15MHz	16QAM	19125	1RB#0	22.64	24.62	33	PASS
Band2	15MHz	16QAM	19125	1RB#38	21.91	23.89	33	PASS
Band2	15MHz	16QAM	19125	1RB#74	20.48	22.46	33	PASS
Band2	15MHz	16QAM	19125	27RB#0	21.57	23.55	33	PASS
Band2	20MHz	QPSK	18700	1RB#0	22.71	24.69	33	PASS
Band2	20MHz	QPSK	18700	1RB#49	23.20	25.18	33	PASS
Band2	20MHz	QPSK	18700	1RB#99	21.90	23.88	33	PASS
Band2	20MHz	QPSK	18700	100RB#0	21.91	23.89	33	PASS
Band2	20MHz	QPSK	18900	1RB#0	23.13	25.11	33	PASS
Band2	20MHz	QPSK	18900	1RB#49	23.03	25.01	33	PASS



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Band2	20MHz	QPSK	18900	1RB#99	21.83	23.81	33	PASS
Band2	20MHz	QPSK	18900	100RB#0	21.86	23.84	33	PASS
Band2	20MHz	QPSK	19100	1RB#0	23.06	25.04	33	PASS
Band2	20MHz	QPSK	19100	1RB#49	22.97	24.95	33	PASS
Band2	20MHz	QPSK	19100	1RB#99	20.78	22.76	33	PASS
Band2	20MHz	QPSK	19100	100RB#0	21.77	23.75	33	PASS
Band2	20MHz	16QAM	18700	1RB#0	21.82	23.8	33	PASS
Band2	20MHz	16QAM	18700	1RB#49	22.35	24.33	33	PASS
Band2	20MHz	16QAM	18700	1RB#99	21.00	22.98	33	PASS
Band2	20MHz	16QAM	18700	27RB#0	21.00	22.98	33	PASS
Band2	20MHz	16QAM	18900	1RB#0	22.34	24.32	33	PASS
Band2	20MHz	16QAM	18900	1RB#49	22.25	24.23	33	PASS
Band2	20MHz	16QAM	18900	1RB#99	21.20	23.18	33	PASS
Band2	20MHz	16QAM	18900	27RB#0	21.30	23.28	33	PASS
Band2	20MHz	16QAM	19100	1RB#0	22.30	24.28	33	PASS
Band2	20MHz	16QAM	19100	1RB#49	22.20	24.18	33	PASS
Band2	20MHz	16QAM	19100	1RB#99	19.92	21.9	33	PASS
Band2	20MHz	16QAM	19100	27RB#0	21.33	23.31	33	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

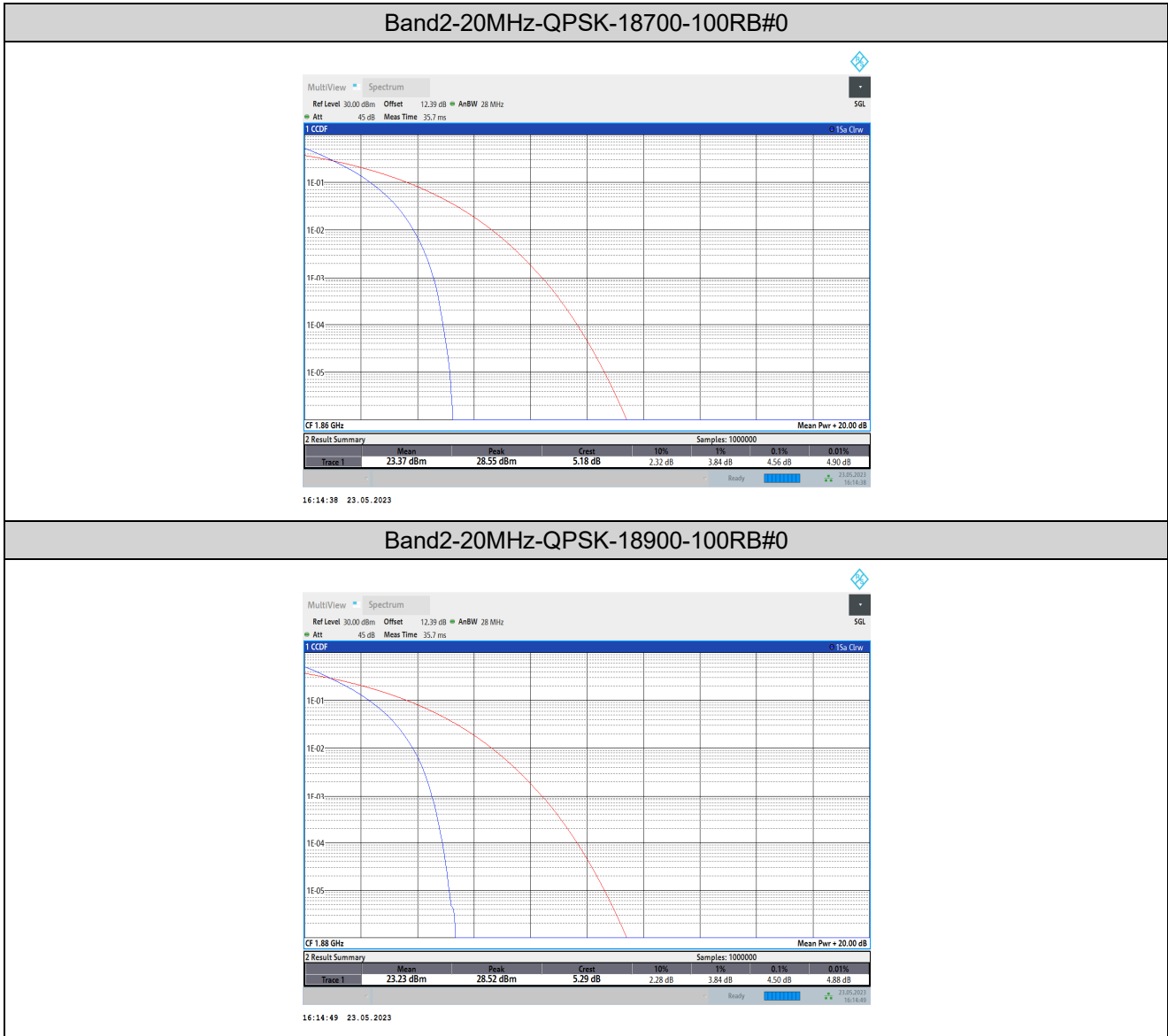
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band2	20MHz	QPSK	18700	100RB#0	4.56	13	PASS
Band2	20MHz	QPSK	18900	100RB#0	4.50	13	PASS
Band2	20MHz	QPSK	19100	100RB#0	4.92	13	PASS
Band2	20MHz	16QAM	18700	27RB#0	5.60	13	PASS
Band2	20MHz	16QAM	18900	27RB#0	4.96	13	PASS
Band2	20MHz	16QAM	19100	27RB#0	5.64	13	PASS



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Test Graphs

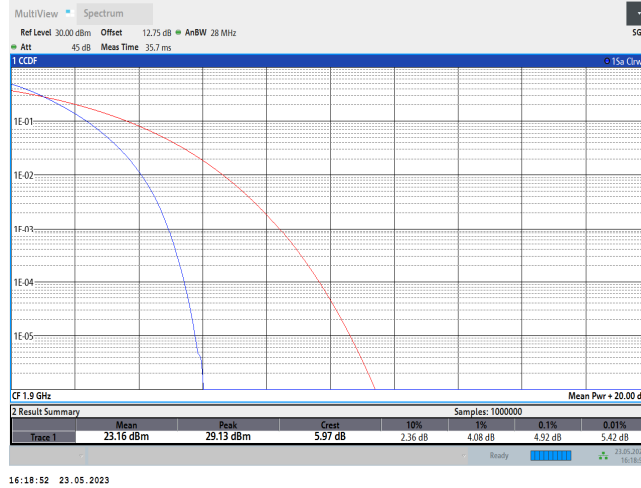


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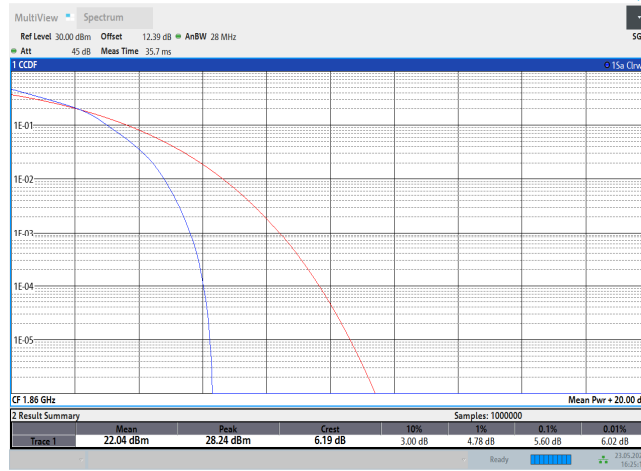
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Band2-20MHz-QPSK-19100-100RB#0



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Band2-20MHz-16QAM-18700-27RB#0

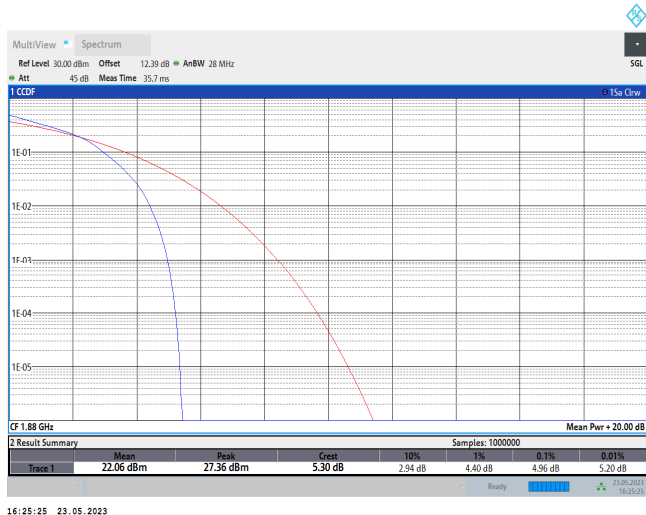


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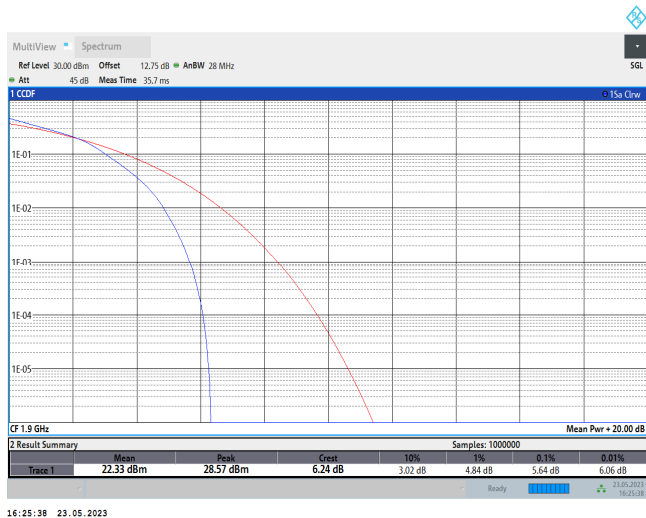


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Band2-20MHz-16QAM-18900-27RB#0



Band2-20MHz-16QAM-19100-27RB#0



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Modulation Characteristics

Test Result

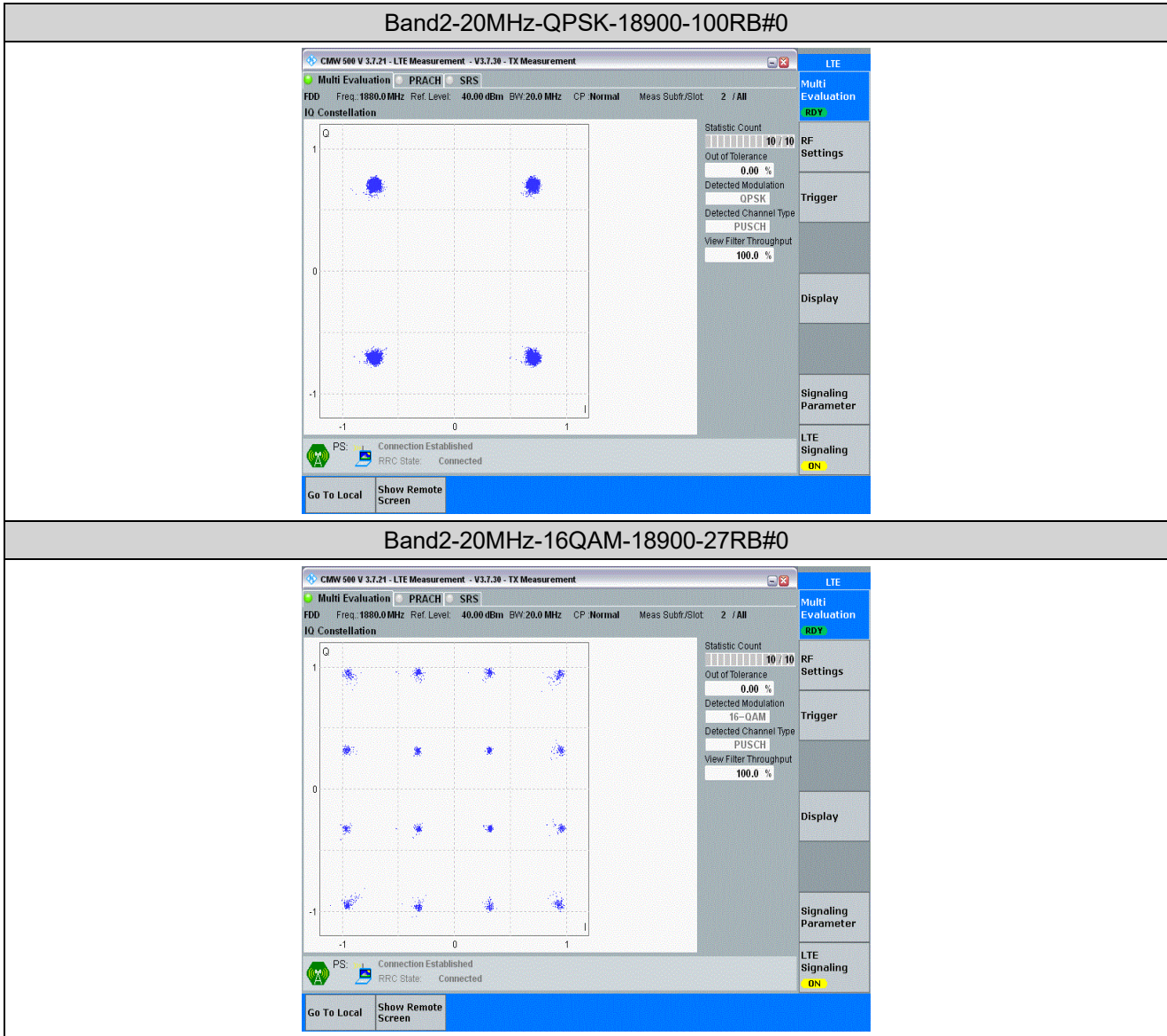
Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band2	20MHz	QPSK	18900	100RB#0	PASS	PASS
Band2	20MHz	16QAM	18900	27RB#0	PASS	PASS



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Test Graphs



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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	1.096	1.48	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	1.097	1.47	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	1.095	1.44	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	1.108	1.50	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	1.109	1.53	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	1.106	1.50	PASS
Band2	3MHz	QPSK	18615	15RB#0	2.681	3.11	PASS
Band2	3MHz	QPSK	18900	15RB#0	2.691	3.15	PASS
Band2	3MHz	QPSK	19185	15RB#0	2.686	3.16	PASS
Band2	3MHz	16QAM	18615	15RB#0	2.686	3.16	PASS
Band2	3MHz	16QAM	18900	15RB#0	2.689	3.16	PASS
Band2	3MHz	16QAM	19185	15RB#0	2.678	3.17	PASS
Band2	5MHz	QPSK	18625	25RB#0	4.471	4.99	PASS
Band2	5MHz	QPSK	18900	25RB#0	4.462	4.99	PASS
Band2	5MHz	QPSK	19175	25RB#0	4.47	4.98	PASS
Band2	5MHz	16QAM	18625	25RB#0	4.458	4.94	PASS
Band2	5MHz	16QAM	18900	25RB#0	4.455	4.96	PASS
Band2	5MHz	16QAM	19175	25RB#0	4.455	4.95	PASS
Band2	10MHz	QPSK	18650	50RB#0	8.912	9.52	PASS
Band2	10MHz	QPSK	18900	50RB#0	8.9	9.54	PASS
Band2	10MHz	QPSK	19150	50RB#0	8.894	9.58	PASS
Band2	10MHz	16QAM	18650	27RB#0	4.936	6.64	PASS
Band2	10MHz	16QAM	18900	27RB#0	4.939	6.88	PASS
Band2	10MHz	16QAM	19150	27RB#0	4.921	6.50	PASS
Band2	15MHz	QPSK	18675	75RB#0	13.539	16.83	PASS
Band2	15MHz	QPSK	18900	75RB#0	13.553	16.80	PASS
Band2	15MHz	QPSK	19125	75RB#0	13.543	16.32	PASS
Band2	15MHz	16QAM	18675	27RB#0	6.036	10.14	PASS
Band2	15MHz	16QAM	18900	27RB#0	5.905	9.27	PASS
Band2	15MHz	16QAM	19125	27RB#0	5.681	8.67	PASS



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Band2	20MHz	QPSK	18700	100RB#0	17.944	21.00	PASS
Band2	20MHz	QPSK	18900	100RB#0	17.98	21.08	PASS
Band2	20MHz	QPSK	19100	100RB#0	17.886	20.64	PASS
Band2	20MHz	16QAM	18700	27RB#0	6.304	9.92	PASS
Band2	20MHz	16QAM	18900	27RB#0	6.213	9.60	PASS
Band2	20MHz	16QAM	19100	27RB#0	6.127	10.60	PASS



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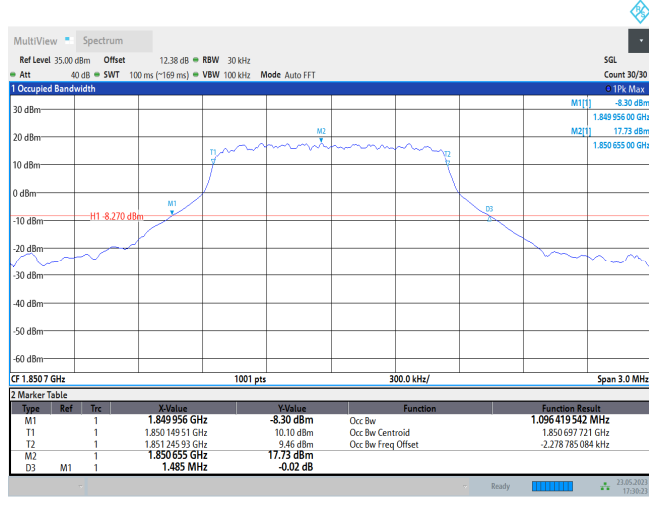
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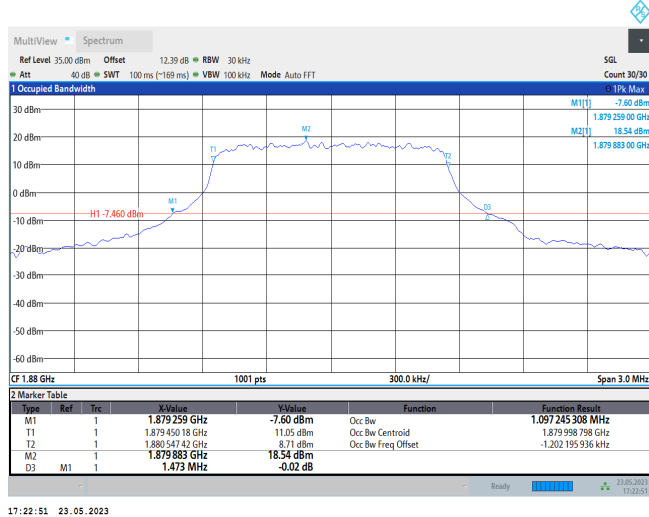
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Test Graphs

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



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

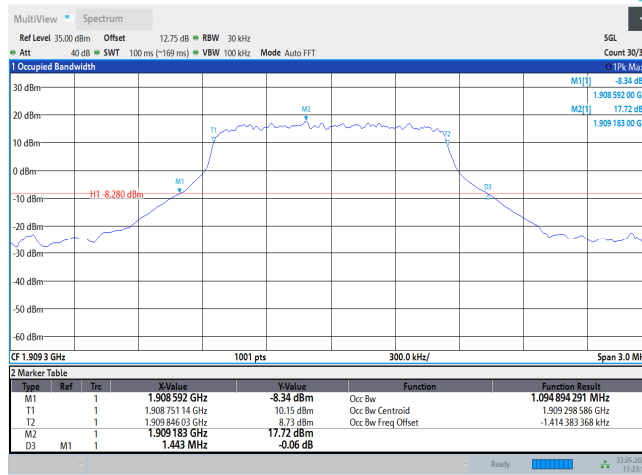


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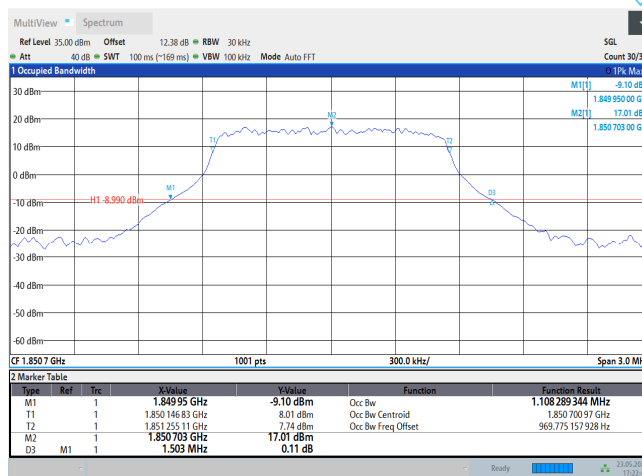
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Band2-1.4MHz-QPSK-19193-6RB#0



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

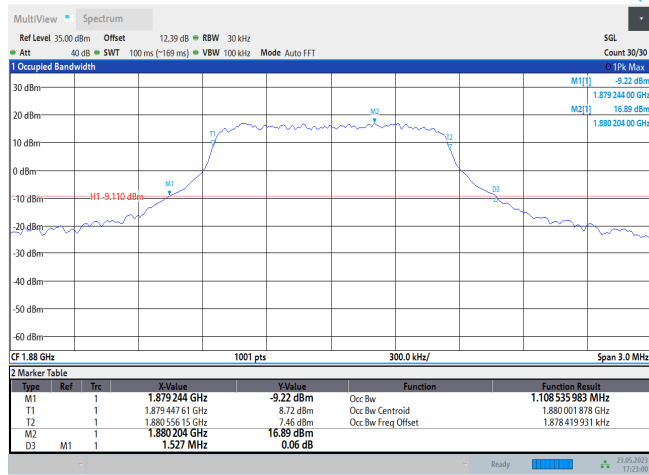


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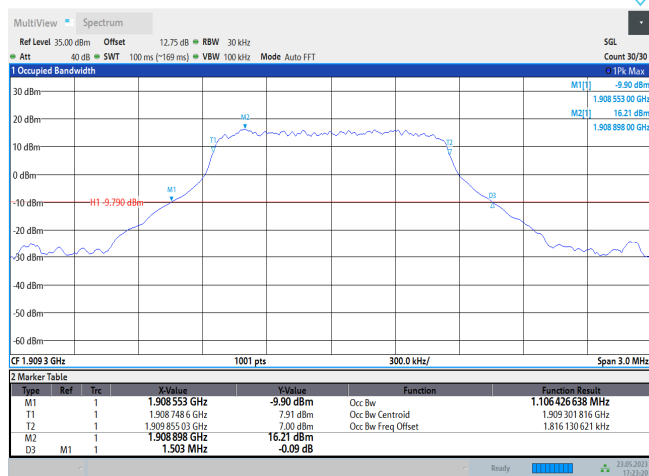
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Band2-1.4MHz-16QAM-18900-6RB#0



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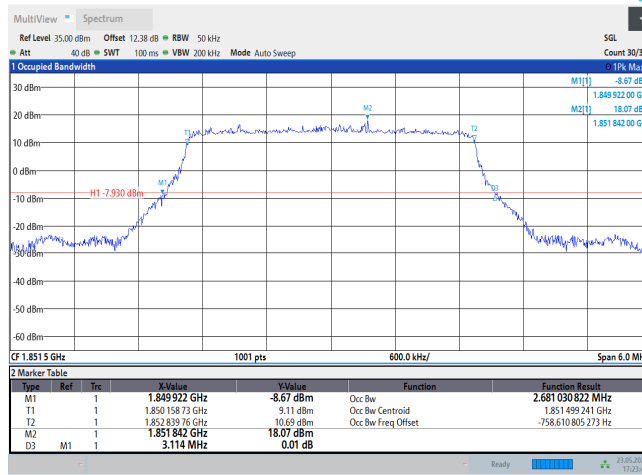


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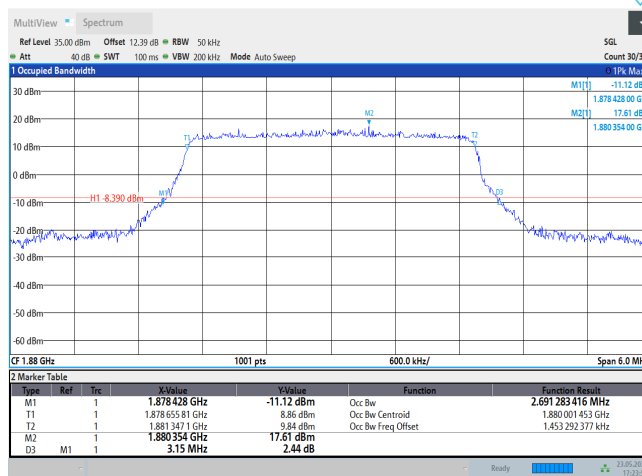
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Band2-3MHz-QPSK-18615-15RB#0



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



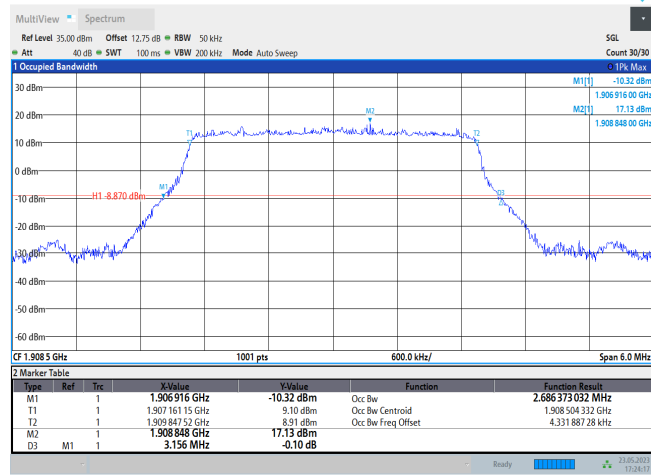
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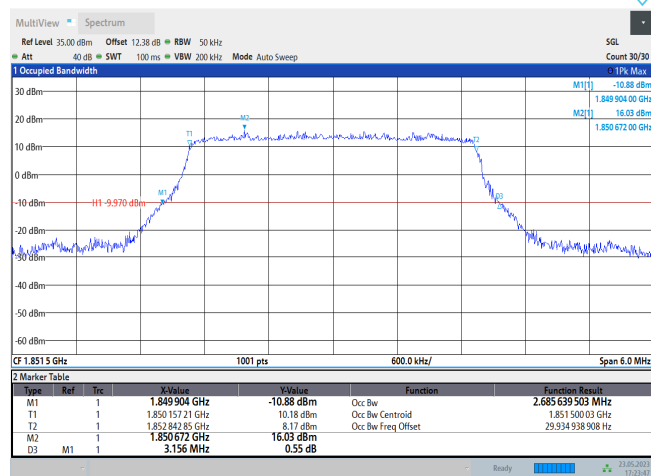
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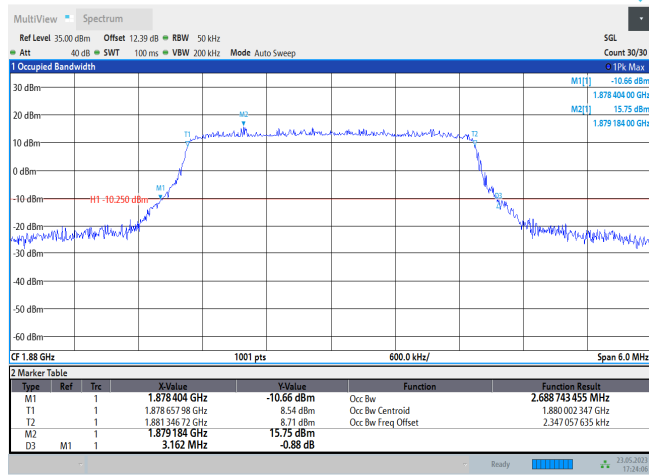


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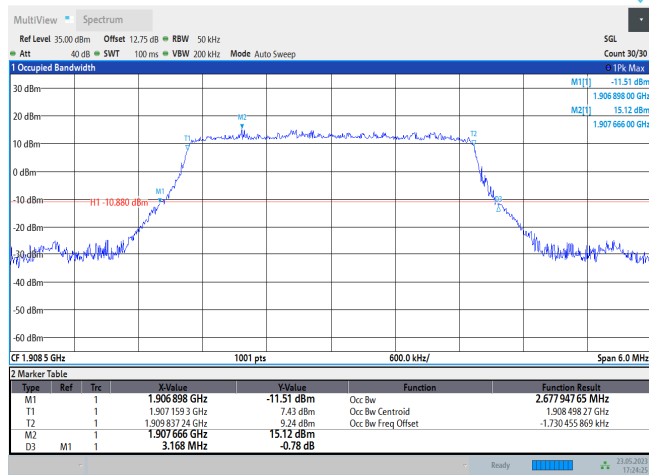
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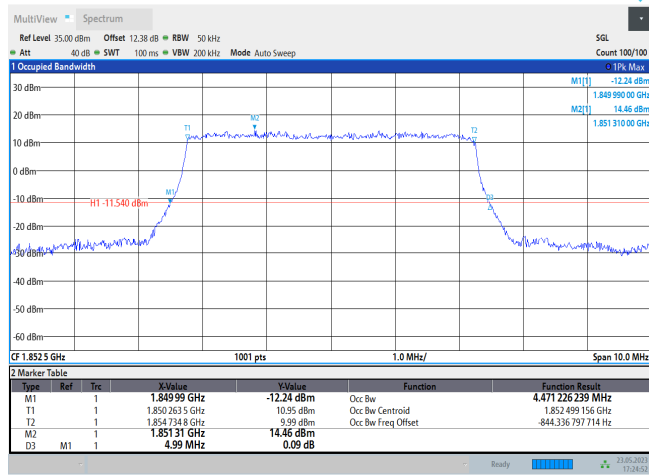
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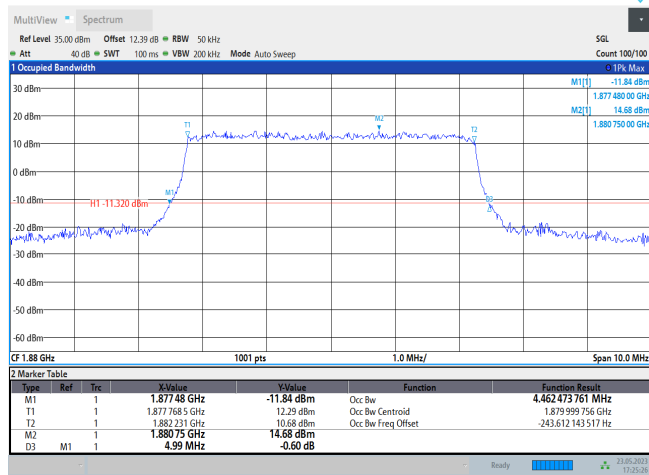


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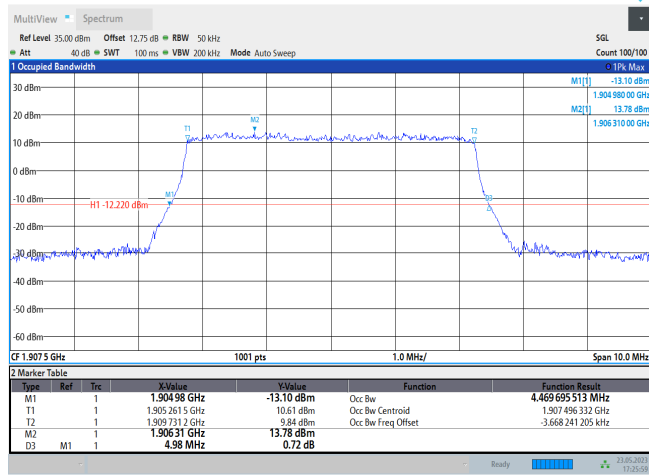


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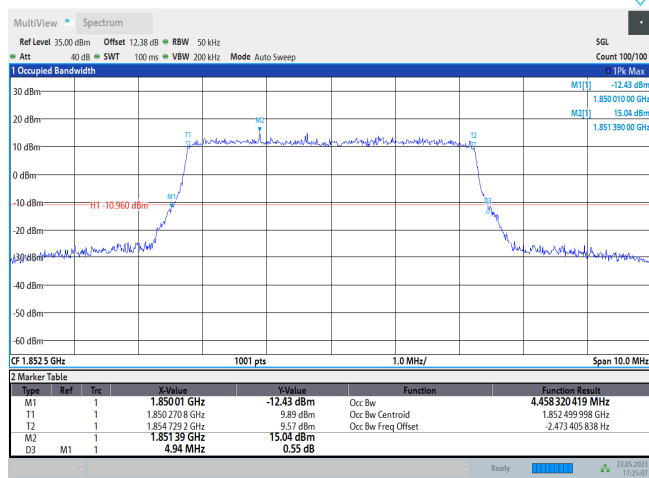
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Band2-5MHz-16QAM-18625-25RB#0

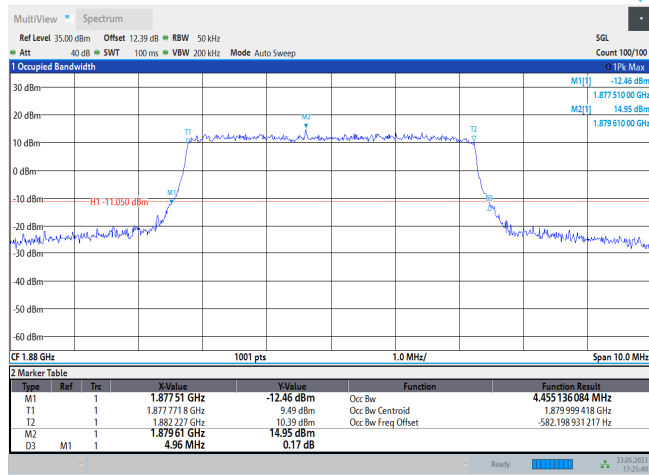


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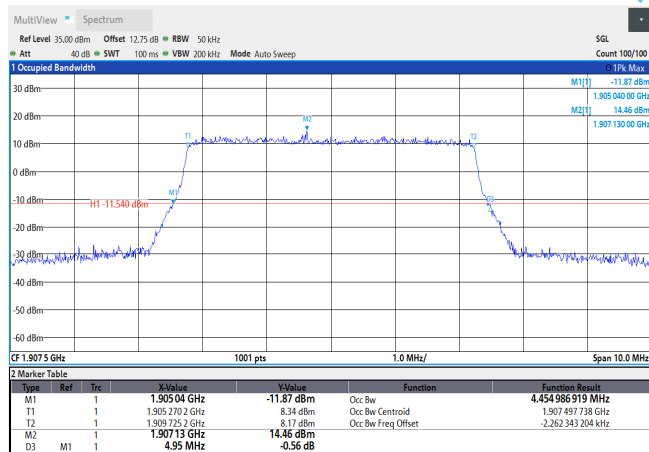
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Band2-5MHz-16QAM-18900-25RB#0



17:25:41 23.05.2023

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

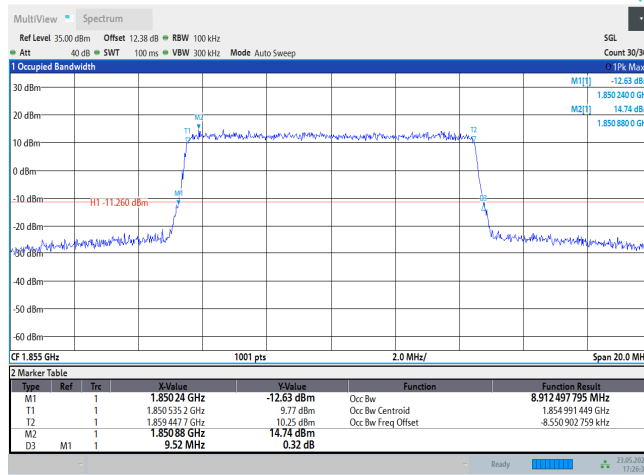


17:26:15 23.05.2023



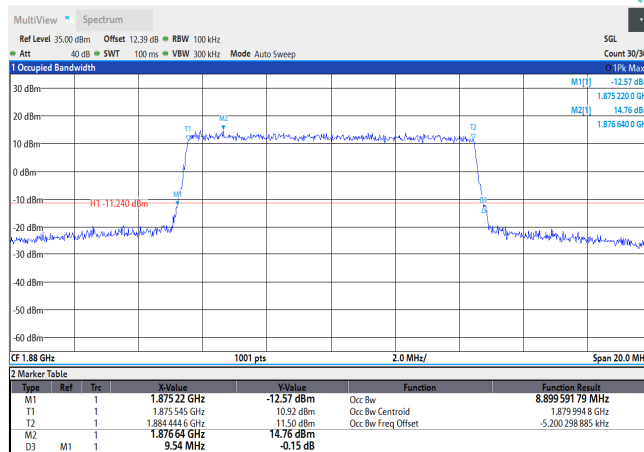
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Band2-10MHz-QPSK-18650-50RB#0



17:26:34 23.05.2023

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



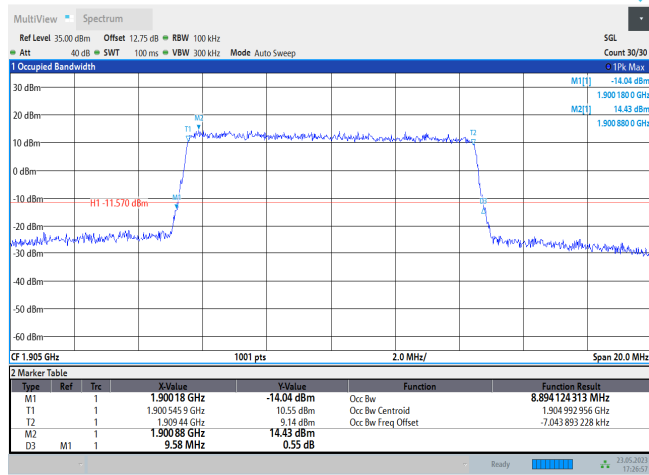
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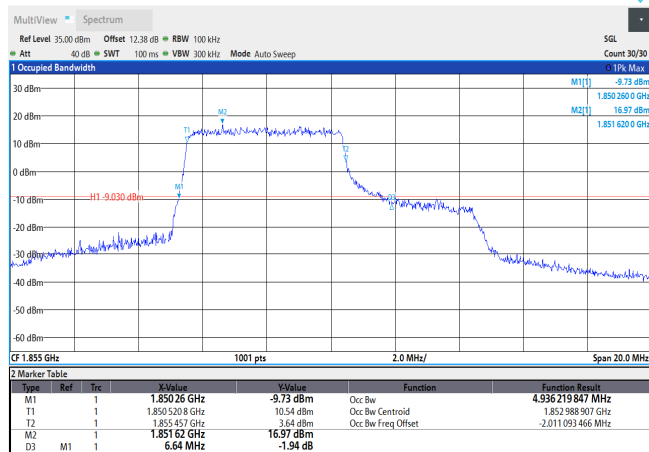
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Band2-10MHz-QPSK-19150-50RB#0



17:26:57 23.05.2023

Band2-10MHz-16QAM-18650-27RB#0



17:30:43 23.05.2023



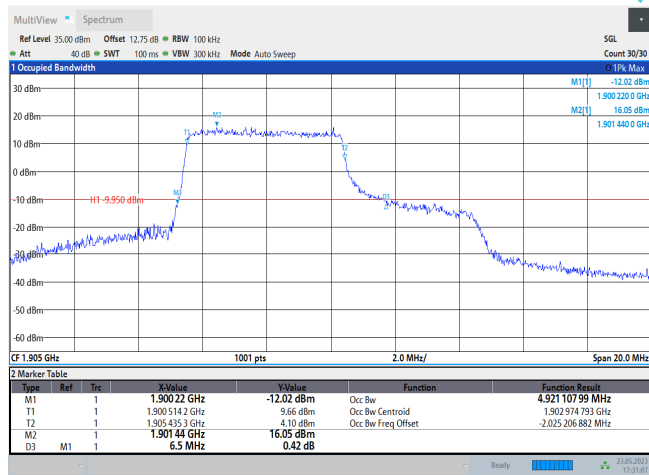
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Band2-10MHz-16QAM-18900-27RB#0



17:30:55 23.05.2023

Band2-10MHz-16QAM-19150-27RB#0

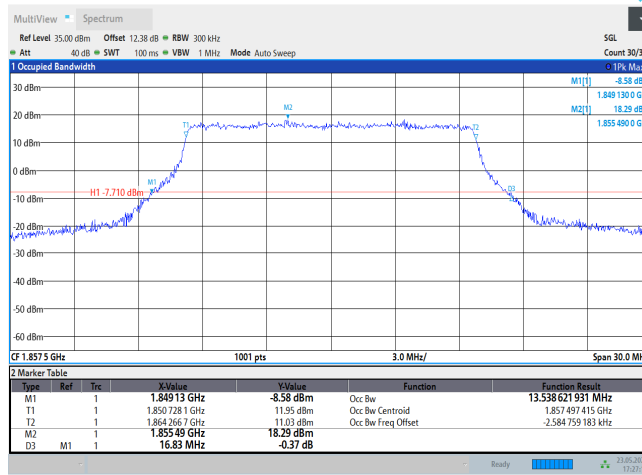


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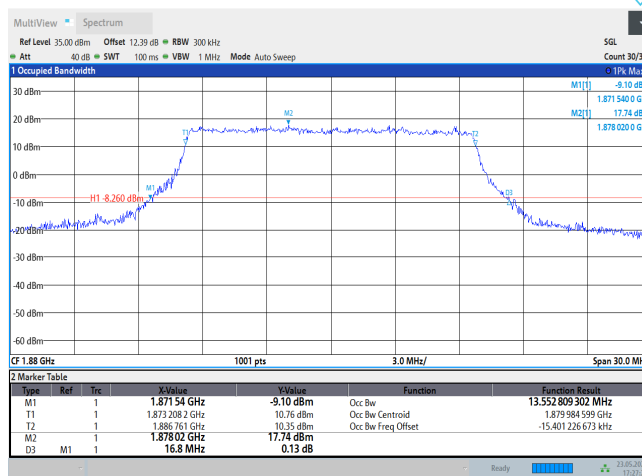
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Band2-15MHz-QPSK-18675-75RB#0



17:27:17 23.05.2023

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

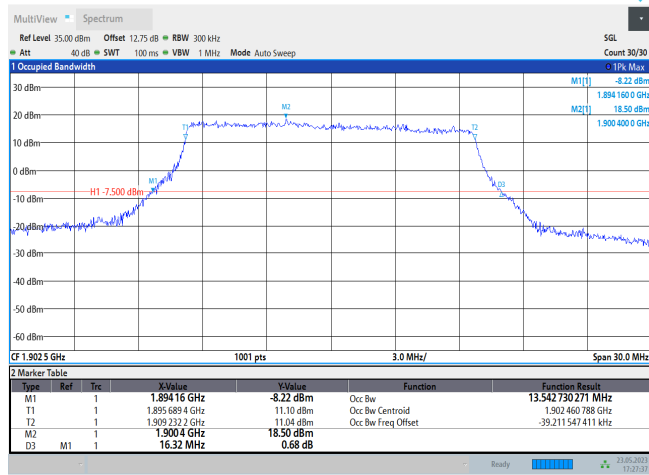


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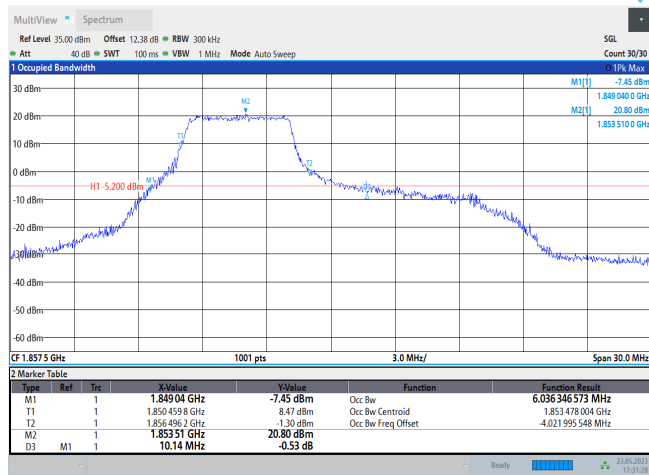
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Band2-15MHz-QPSK-19125-75RB#0



17:27:38 23.05.2023

Band2-15MHz-16QAM-18675-27RB#0

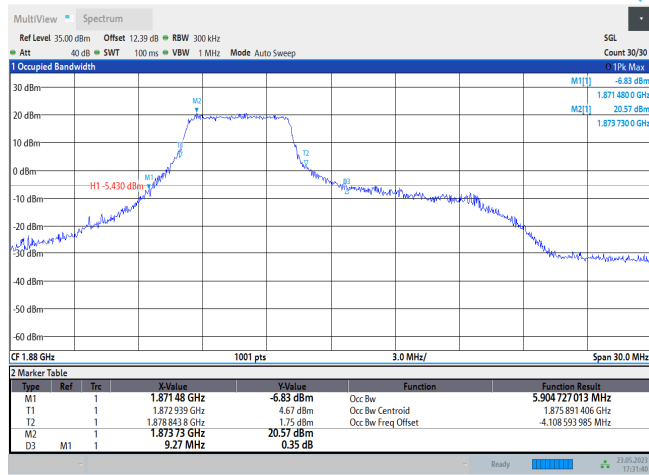


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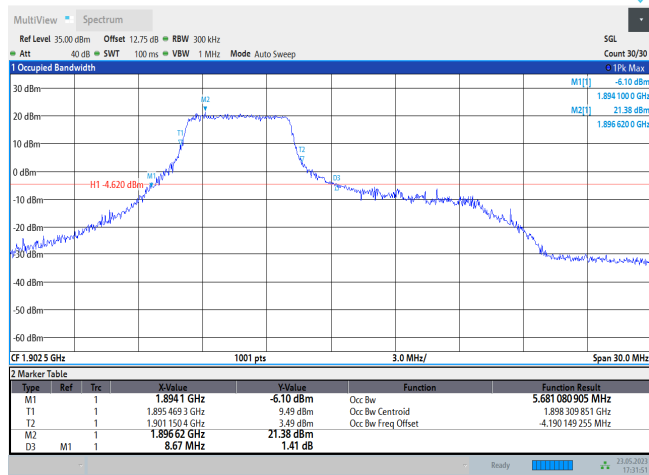
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Band2-15MHz-16QAM-18900-27RB#0



17:31:40 23.05.2023

Band2-15MHz-16QAM-19125-27RB#0

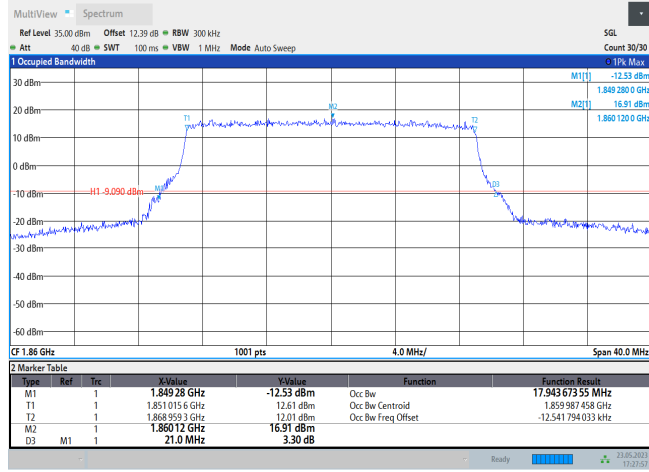


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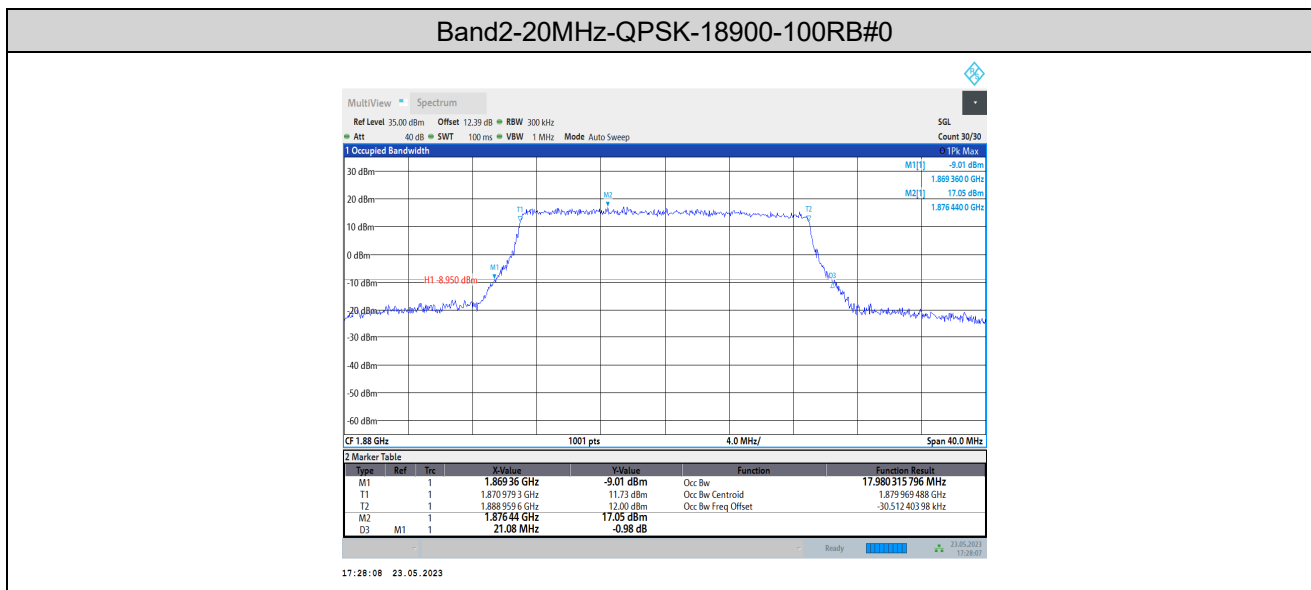
Band2-20MHz-QPSK-18700-100RB#0



17:27:58 23.05.2023

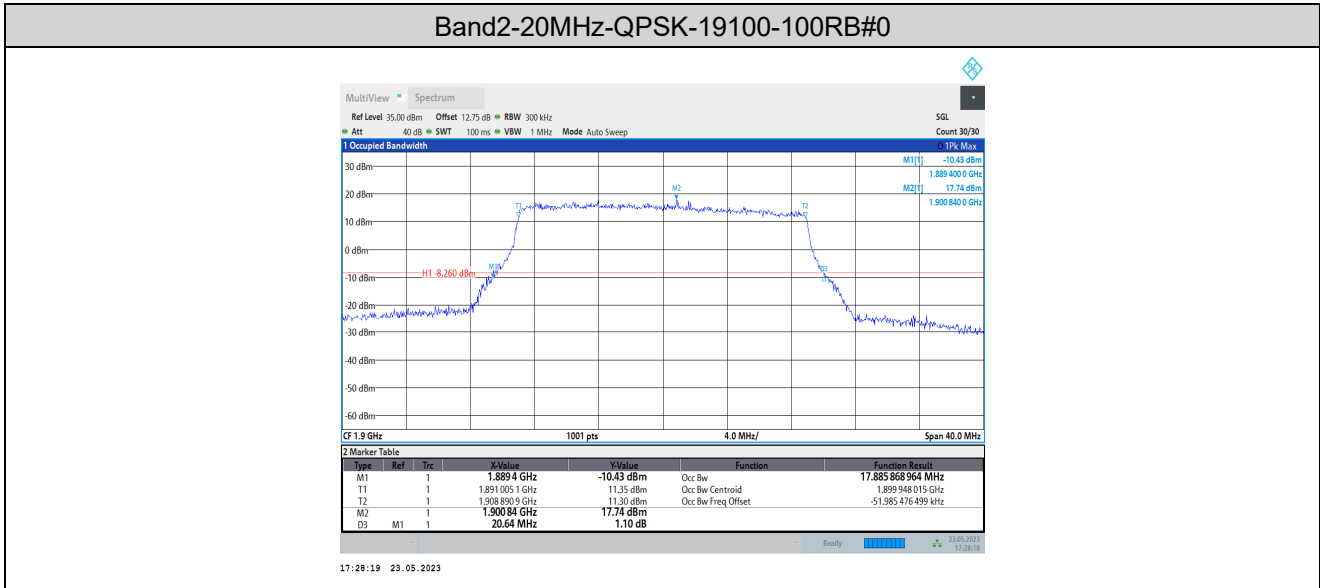


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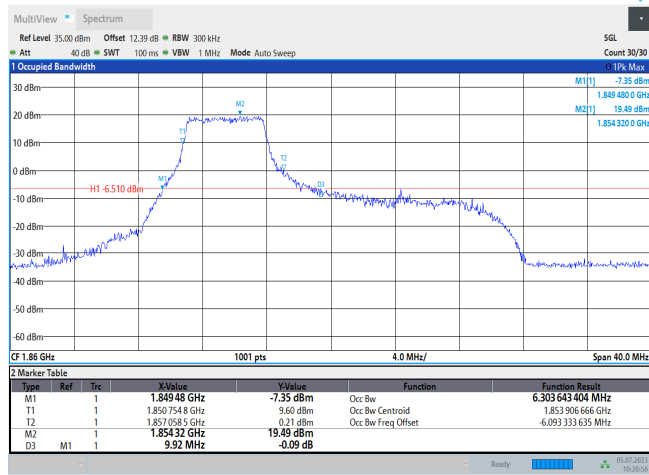


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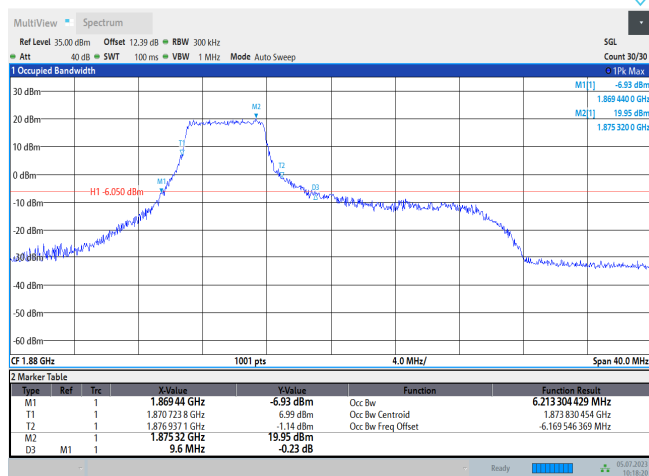
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中国·西安·沣东新城科源三路137号康鸿橙方科技园1号楼D单元1层 邮编: 710086 t (86-29) 6282 7885 sgs.china@sgs.com

Band2-20MHz-16QAM-18700-27RB#0



10:20:57 05.07.2023

Band2-20MHz-16QAM-18900-27RB#0

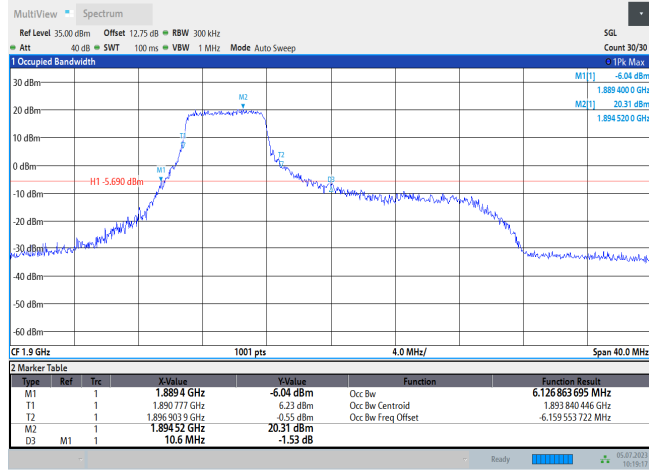


10:18:20 05.07.2023



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Band2-20MHz-16QAM-19100-27RB#0



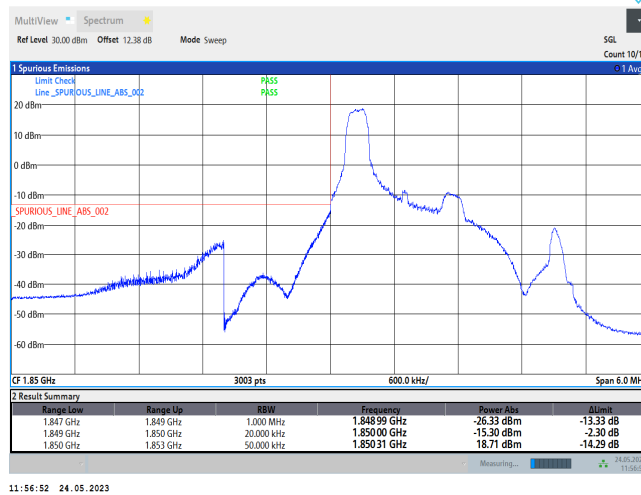
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Band Edge

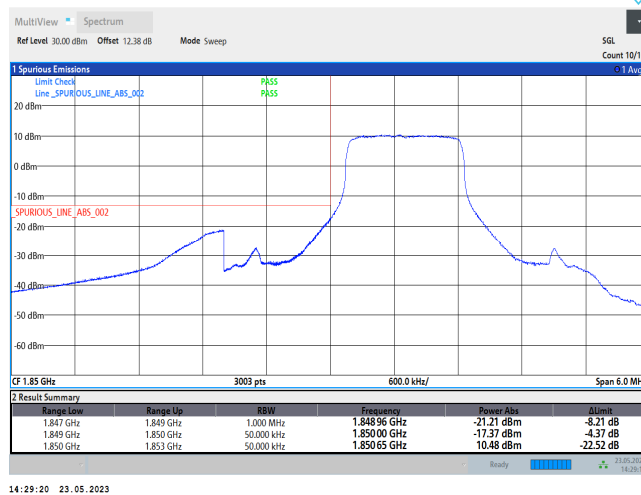
Test Graphs

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



11:56:52 24. 05. 2023

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



14:29:20 23. 05. 2023



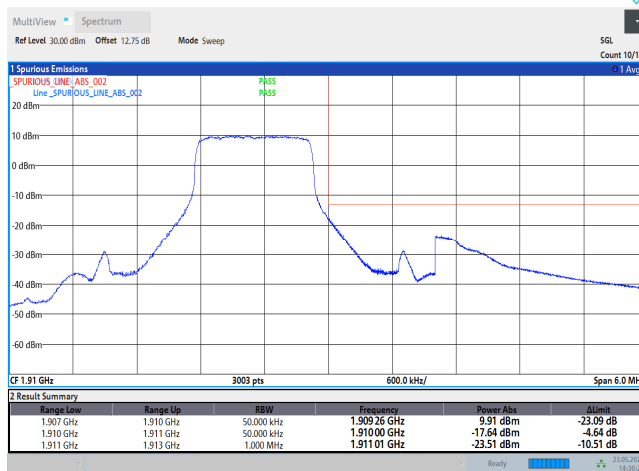
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Band2-1.4MHz-QPSK-19193-1RB#5



11:58:51 24.05.2023

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

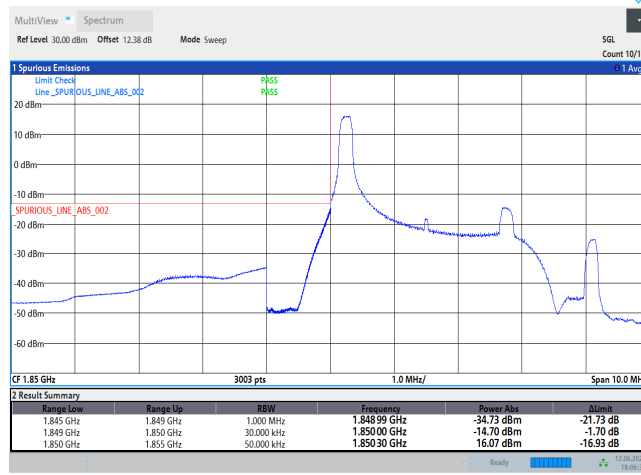


14:30:26 23.05.2023



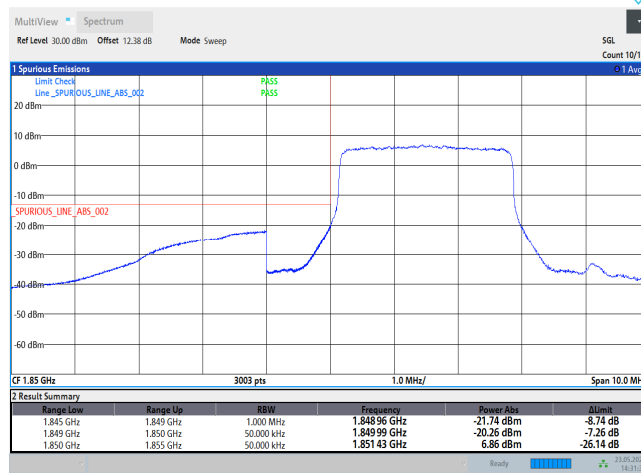
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Band2-3MHz-QPSK-18615-1RB#0



18:06:35 12.06.2023

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

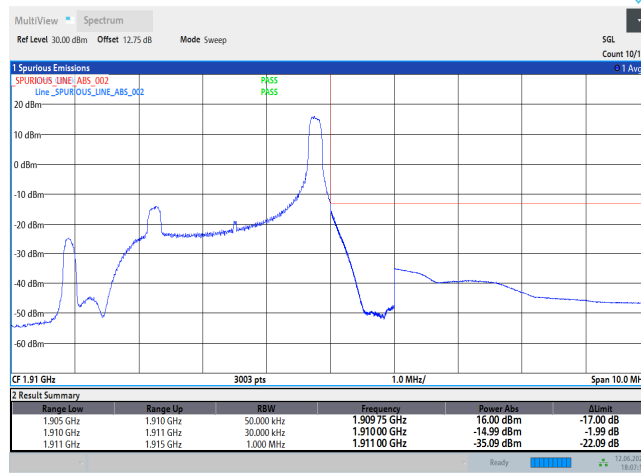


14:31:31 23.05.2023



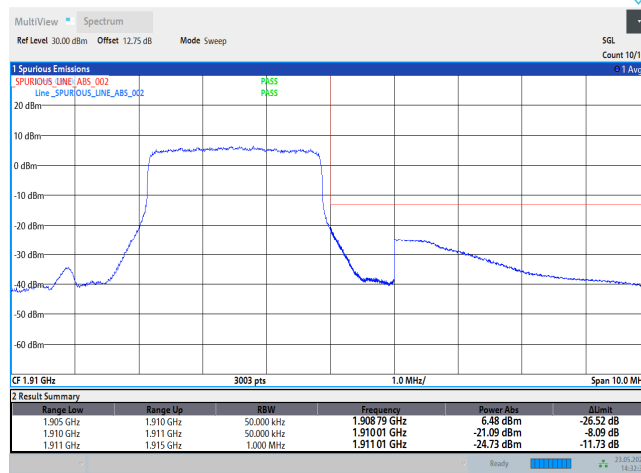
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Band2-3MHz-QPSK-19185-1RB#14



18:07:18 12.06.2023

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

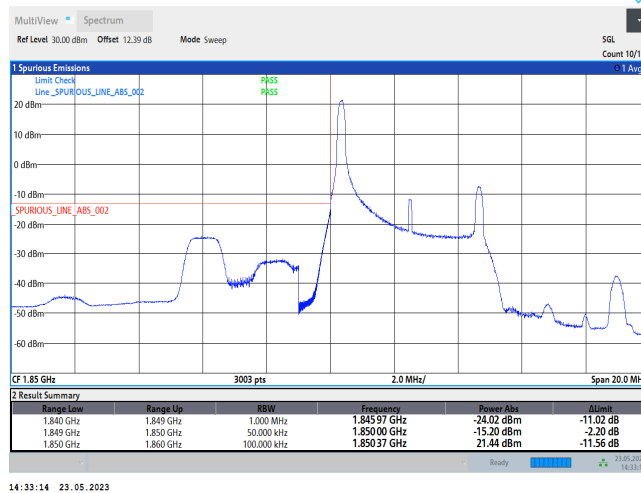


14:32:38 23.05.2023



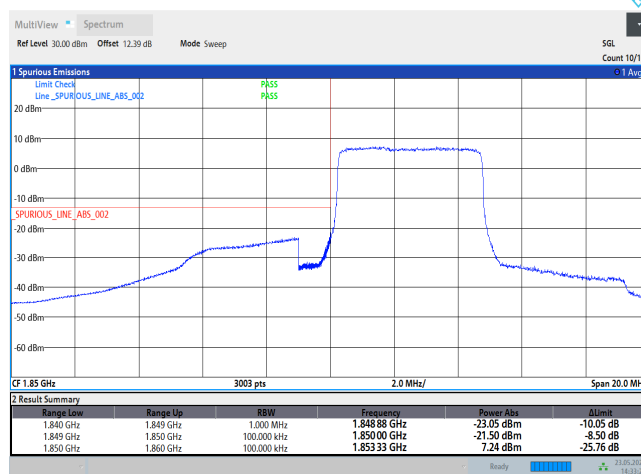
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Band2-5MHz-QPSK-18625-1RB#0



14:33:14 23.05.2023

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

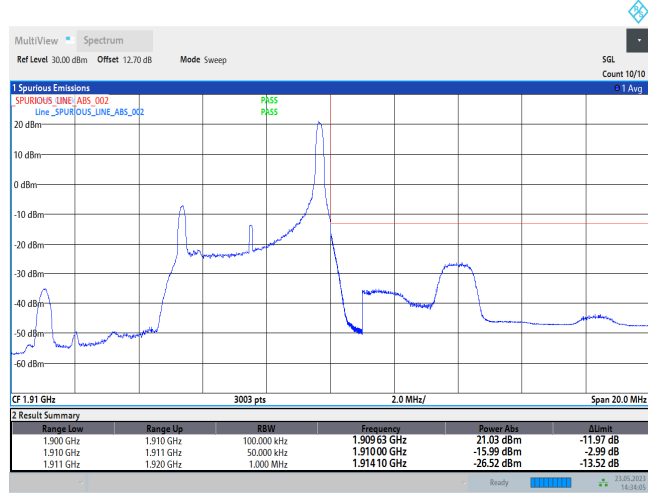


14:33:29 23.05.2023



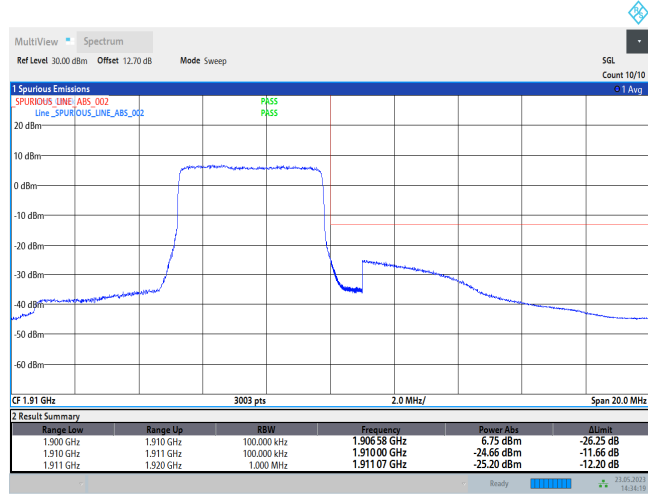
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Band2-5MHz-QPSK-19175-1RB#24



14:34:06 23.05.2023

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

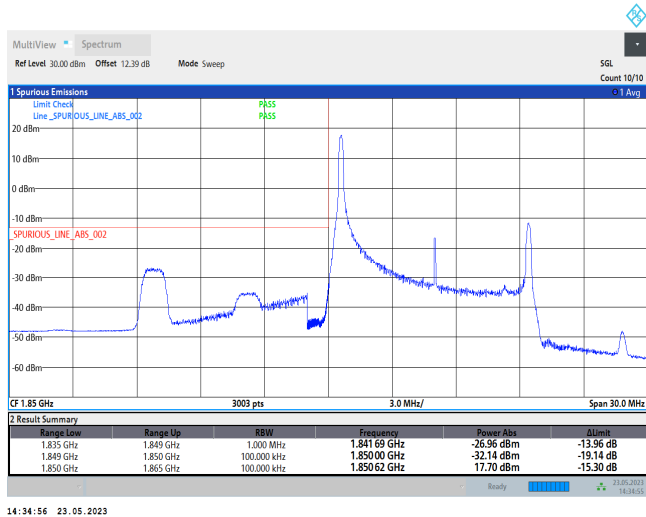


14:34:20 23.05.2023



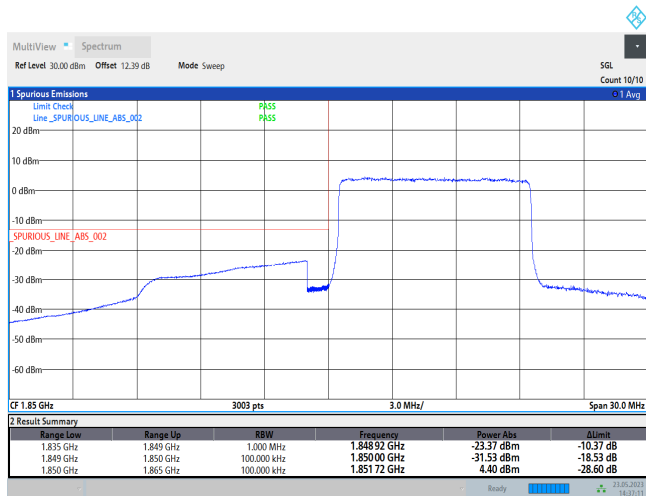
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Band2-10MHz-QPSK-18650-1RB#0



14:34:56 23.05.2023

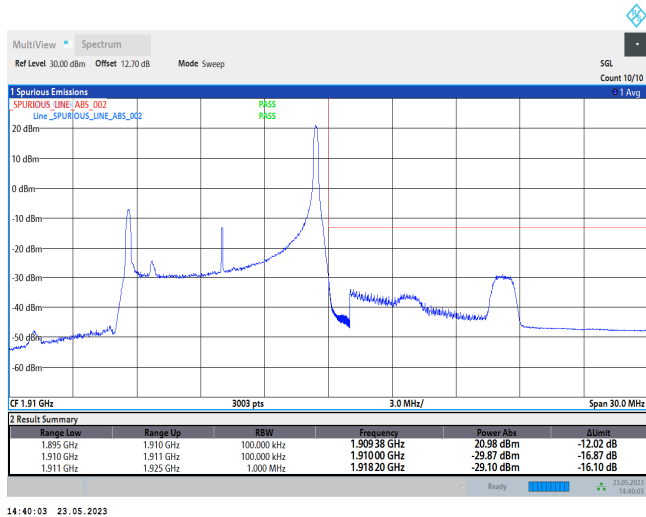
Band2-10MHz-QPSK-18650-50RB#0



14:37:11 23.05.2023

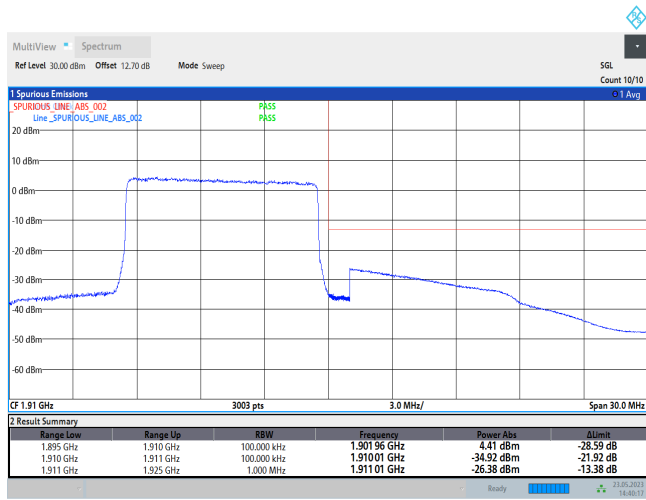


Band2-10MHz-QPSK-19150-1RB#49



14:40:03 23.05.2023

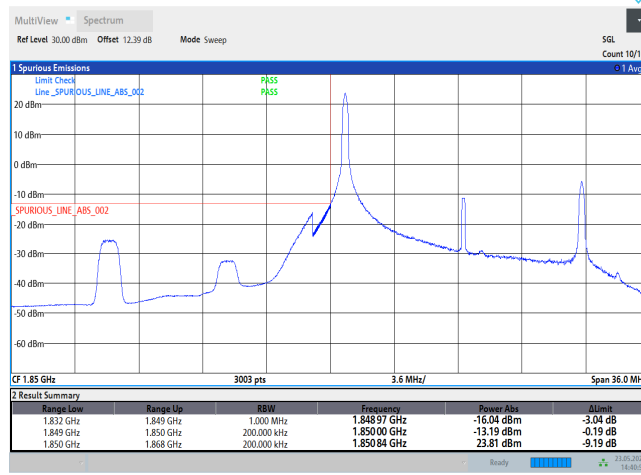
Band2-10MHz-QPSK-19150-50RB#0



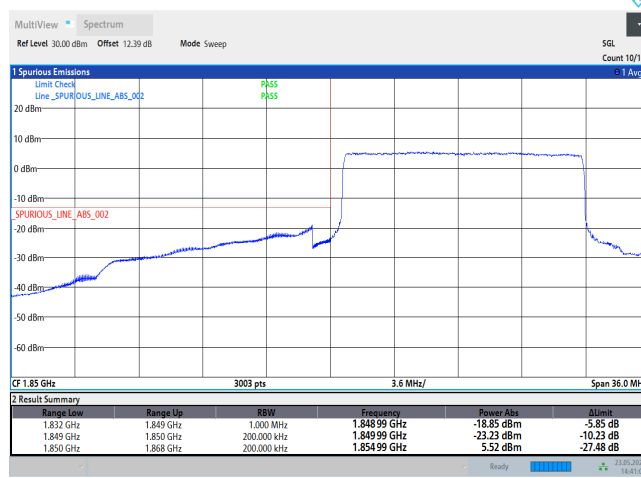
14:40:18 23.05.2023



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



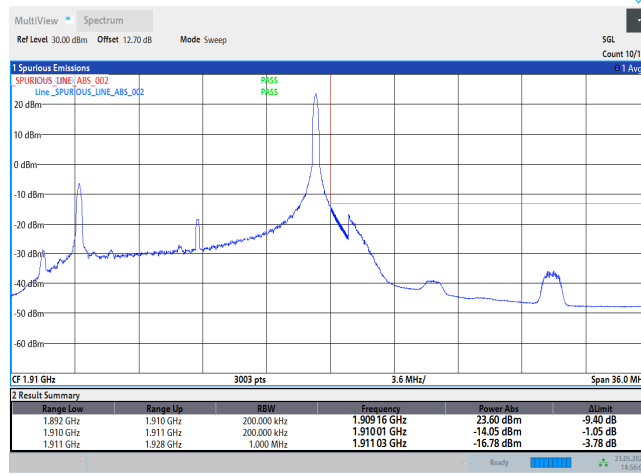
Band2-15MHz-QPSK-18675-75RB#0



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



14:56:01 23.05.2023

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

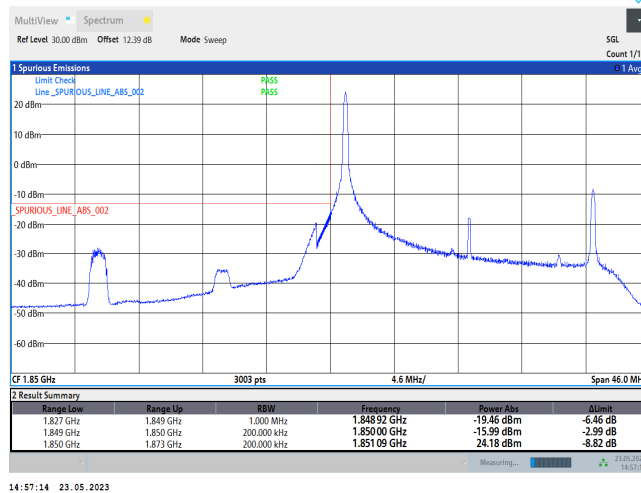


14:56:15 23.05.2023

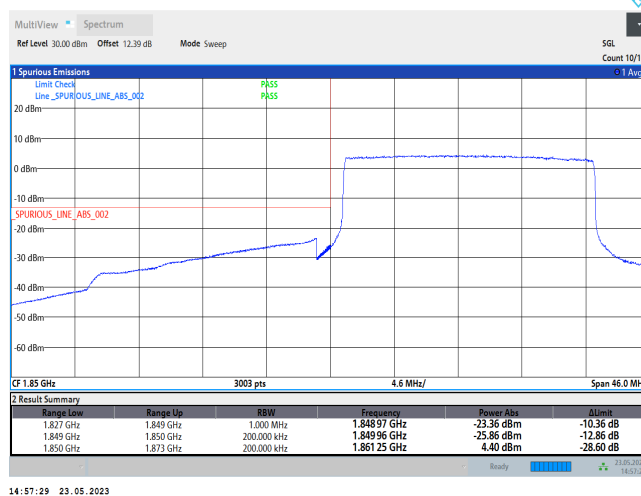


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Band2-20MHz-QPSK-18700-1RB#0

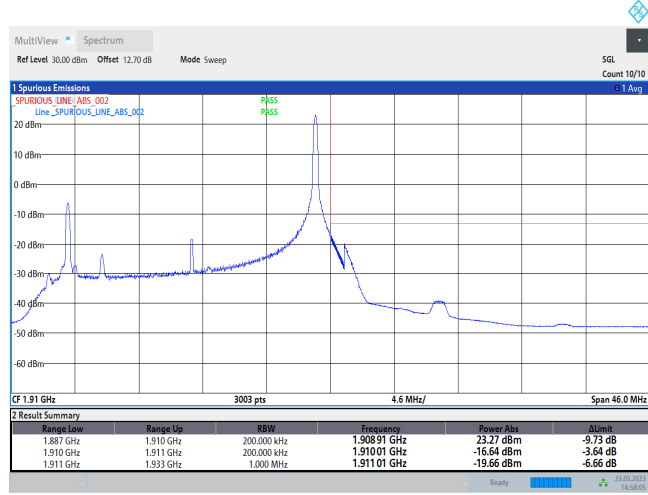


Band2-20MHz-QPSK-18700-100RB#0



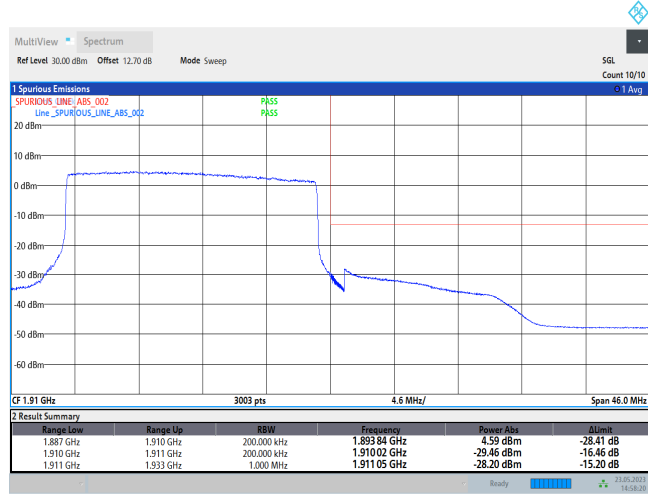
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Band2-20MHz-QPSK-19100-1RB#99



14:58:06 23.05.2023

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



14:58:20 23.05.2023

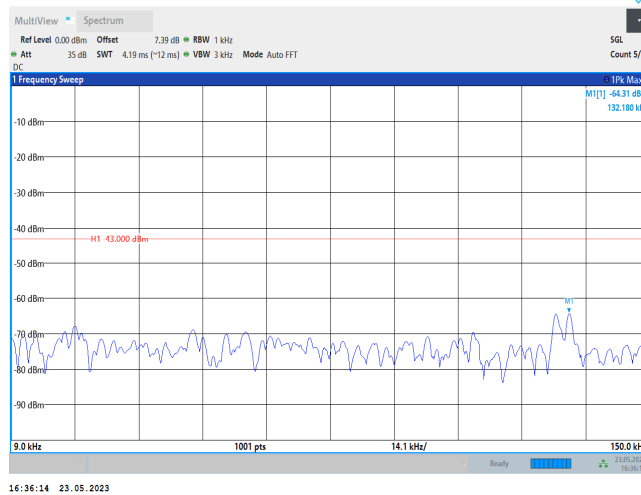


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Conducted Spurious Emission

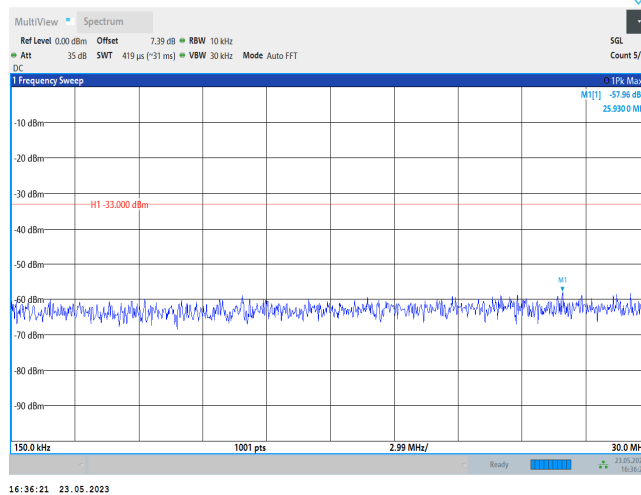
Test Graphs

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



16:36:14 23.05.2023

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

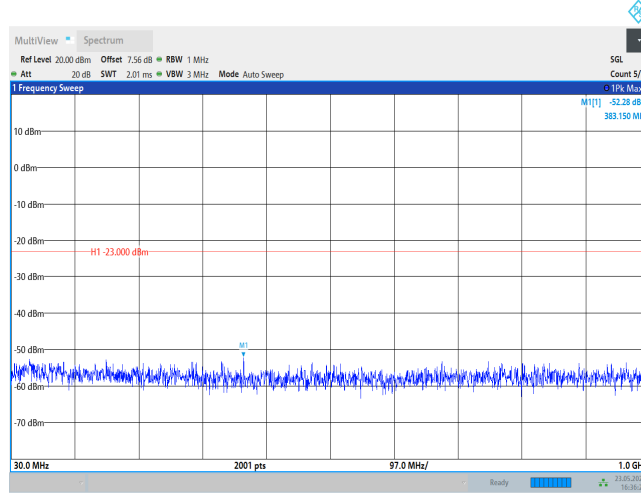


16:36:21 23.05.2023



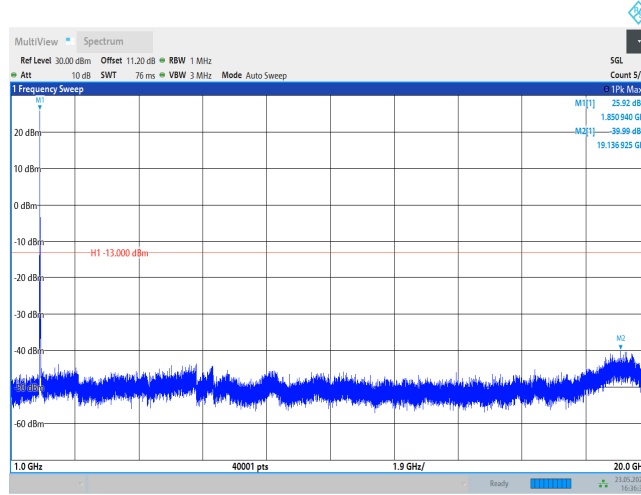
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Band2-20MHz-QPSK-18700-1RB#0-Range3:30~1000MHz



16:36:28 23.05.2023

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

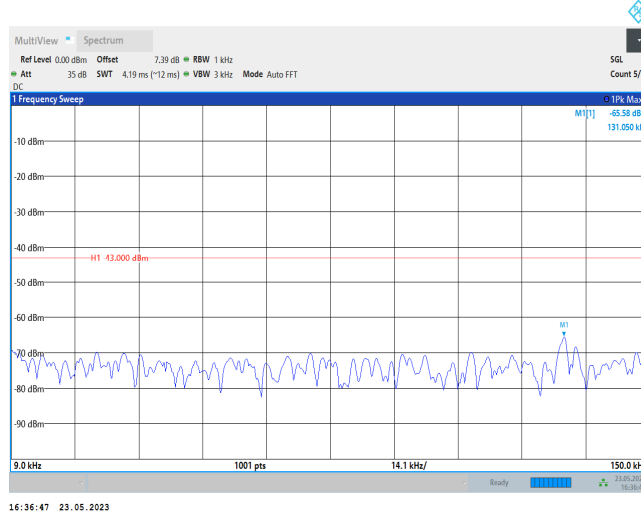


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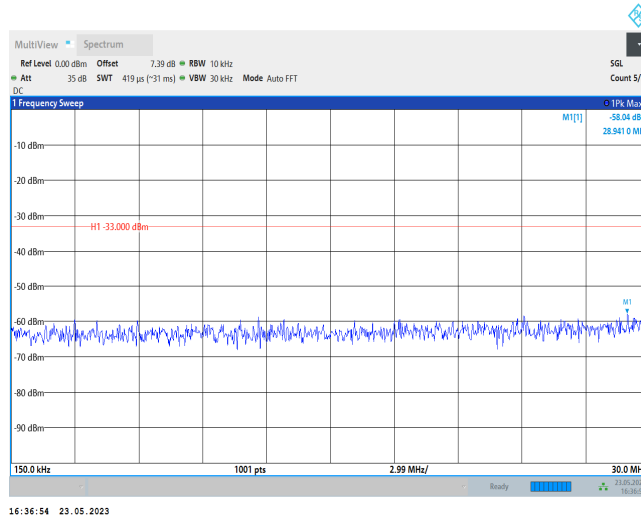


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Band2-20MHz-QPSK-18900-1RB#0-Range1:0.009~0.15MHz

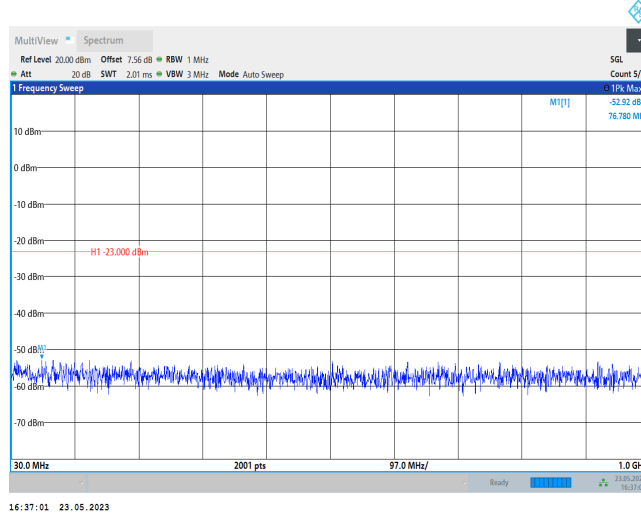


Band2-20MHz-QPSK-18900-1RB#0-Range2:0.15~30MHz



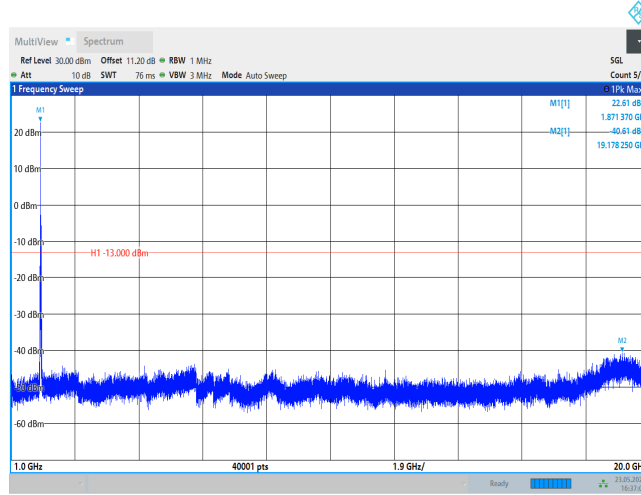
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Band2-20MHz-QPSK-18900-1RB#0-Range3:30~1000MHz



16:37:01 23.05.2023

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

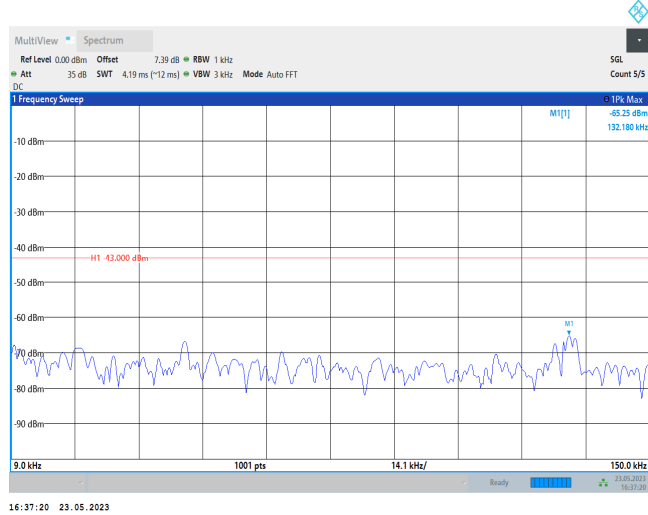


16:37:08 23.05.2023

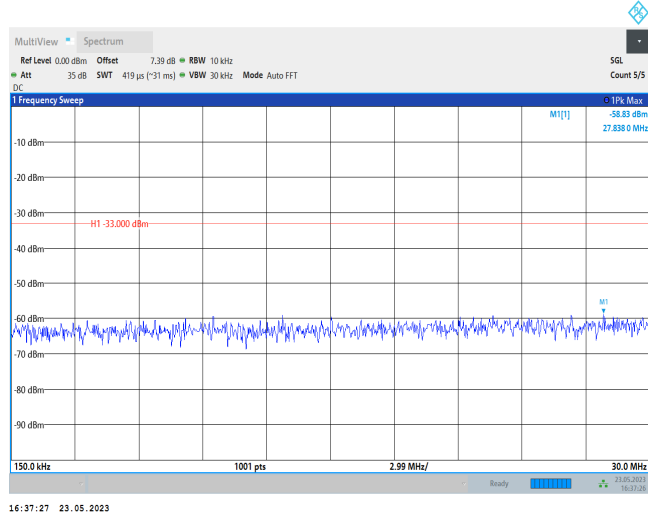


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Band2-20MHz-QPSK-19100-1RB#0-Range1:0.009~0.15MHz



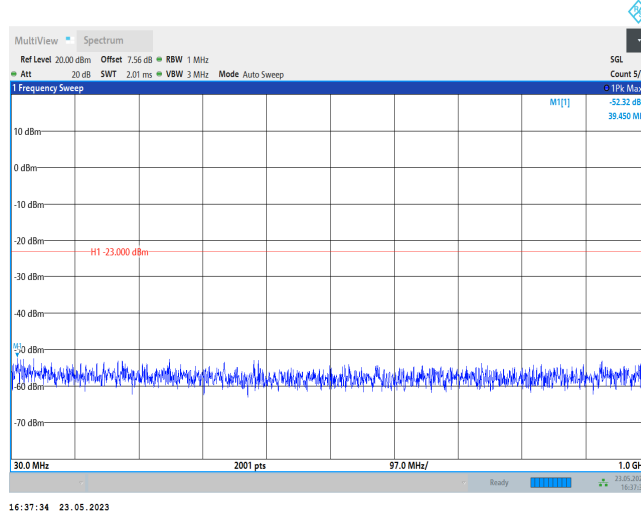
Band2-20MHz-QPSK-19100-1RB#0-Range2:0.15~30MHz



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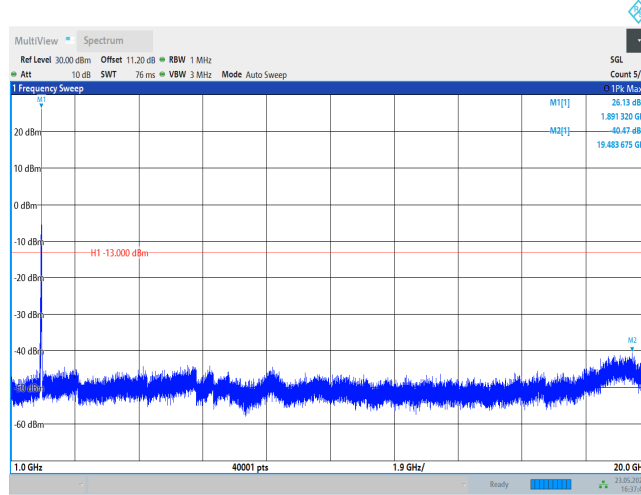
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Band2-20MHz-QPSK-19100-1RB#0-Range3:30~1000MHz



16:37:34 23.05.2023

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



16:37:41 23.05.2023



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Field Strength of Spurious Radiation

Test Band = LTE_2_TM1_20MHz

Test Channel = LCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	3702.0351	68.69	-50.00	30.31	-46.26	-13.00	33.26	276	126	Horizontal
2	4915.5958	58.00	-47.44	33.13	-51.57	-13.00	38.57	254	280	Horizontal
3	5553.1277	55.90	-45.47	33.21	-51.62	-13.00	38.62	188	246	Horizontal
4	9255.3128	52.46	-41.26	39.07	-44.99	-13.00	31.99	256	181	Horizontal
5	9828.3414	50.11	-41.40	38.84	-47.71	-13.00	34.71	332	181	Horizontal
6	11908.1954	47.04	-37.84	39.49	-46.57	-13.00	33.57	117	340	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	3702.0351	79.55	-50.00	30.31	-35.40	-13.00	22.40	256	256	Vertical
2	5553.1277	65.07	-45.47	33.21	-42.45	-13.00	29.45	336	102	Vertical
3	7371.9686	52.68	-44.02	36.86	-49.74	-13.00	36.74	325	88	Vertical
4	9255.3128	51.37	-41.26	39.07	-46.08	-13.00	33.08	188	281	Vertical
5	9828.3414	50.77	-41.40	38.84	-47.05	-13.00	34.05	256	113	Vertical
6	11938.9469	48.02	-38.32	39.46	-46.10	-13.00	33.10	364	325	Vertical



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Test Band = LTE_2_TM1_20MHz

Test Channel = MCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	3742.5371	67.94	-49.46	30.47	-46.31	-13.00	33.31	196	97	Horizontal
2	5613.1307	57.48	-45.52	33.37	-49.93	-13.00	36.93	325	47	Horizontal
3	7484.4742	49.68	-43.28	36.63	-52.23	-13.00	39.23	214	354	Horizontal
4	9355.0678	49.04	-41.58	38.52	-49.28	-13.00	36.28	118	166	Horizontal
5	9688.0844	50.18	-41.20	38.72	-47.56	-13.00	34.56	225	210	Horizontal
6	11911.9456	47.48	-37.90	39.49	-46.19	-13.00	33.19	320	116	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	3742.5371	70.32	-49.46	30.47	-43.93	-13.00	30.93	289	73	Vertical
2	5613.1307	64.11	-45.52	33.37	-43.30	-13.00	30.30	254	92	Vertical
3	9688.0844	50.74	-41.20	38.72	-47.00	-13.00	34.00	188	241	Vertical
4	11932.1966	47.66	-38.21	39.47	-46.34	-13.00	33.34	256	48	Vertical
5	14044.3022	46.37	-39.84	40.59	-48.14	-13.00	35.14	325	231	Vertical
6	17919.746	48.10	-42.98	42.32	-47.82	-13.00	34.82	228	275	Vertical



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Test Band = LTE_2_TM1_20MHz
Test Channel = HCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	3782.2891	74.41	-49.49	30.50	-39.84	-13.00	26.84	256	160	Horizontal
2	5673.1337	59.98	-44.99	33.39	-46.88	-13.00	33.88	339	51	Horizontal
3	7563.9782	50.89	-43.83	36.77	-51.43	-13.00	38.43	250	155	Horizontal
4	9455.5728	48.18	-41.36	39.02	-49.42	-13.00	36.42	189	164	Horizontal
5	11904.4452	46.80	-37.78	39.50	-46.74	-13.00	33.74	336	85	Horizontal
6	13355.7678	47.02	-39.36	40.30	-47.30	-13.00	34.30	254	303	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	3782.2891	72.42	-49.49	30.50	-41.83	-13.00	28.83	369	61	Vertical
2	4893.8447	70.85	-47.57	33.06	-38.92	-13.00	25.92	254	284	Vertical
3	5673.1337	67.89	-44.99	33.39	-38.97	-13.00	25.97	148	100	Vertical
4	7563.9782	50.78	-43.83	36.77	-51.54	-13.00	38.54	229	360	Vertical
5	9787.8394	56.28	-41.50	38.88	-41.60	-13.00	28.60	364	332	Vertical
6	11916.4458	47.38	-37.97	39.48	-46.37	-13.00	33.37	299	165	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) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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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	-11.52	-0.006128	PASS
Band2	20MHz	QPSK	18900	100RB#0	VN	NT	-10.84	-0.005766	PASS
Band2	20MHz	QPSK	18900	100RB#0	VH	NT	-11.27	-0.005995	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band2	20MHz	QPSK	18900	100RB#0	NV	-30	-11.04	-0.005872	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	-20	-14.09	-0.007495	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	-10	-13.66	-0.007266	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	0	-6.90	-0.003670	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	10	-5.34	-0.002840	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	20	-13.48	-0.007170	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	30	-8.77	-0.004665	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	40	-10.41	-0.005537	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	50	-6.14	-0.003266	PASS

---End of Attachment---



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