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Appendix B.16

LTE Band 41



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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
Band41	5MHz	QPSK	39675	1RB#0	24.26	23.36	33.00	PASS
Band41	5MHz	QPSK	39675	1RB#12	24.45	23.55	33.00	PASS
Band41	5MHz	QPSK	39675	1RB#24	24.23	23.33	33.00	PASS
Band41	5MHz	QPSK	39675	25RB#0	23.40	22.50	33.00	PASS
Band41	5MHz	QPSK	40620	1RB#0	24.65	23.75	33.00	PASS
Band41	5MHz	QPSK	40620	1RB#12	24.84	23.94	33.00	PASS
Band41	5MHz	QPSK	40620	1RB#24	24.53	23.63	33.00	PASS
Band41	5MHz	QPSK	40620	25RB#0	23.80	22.90	33.00	PASS
Band41	5MHz	QPSK	41565	1RB#0	24.61	23.71	33.00	PASS
Band41	5MHz	QPSK	41565	1RB#12	24.75	23.85	33.00	PASS
Band41	5MHz	QPSK	41565	1RB#24	24.54	23.64	33.00	PASS
Band41	5MHz	QPSK	41565	25RB#0	23.81	22.91	33.00	PASS
Band41	5MHz	16QAM	39675	1RB#0	23.42	22.52	33.00	PASS
Band41	5MHz	16QAM	39675	1RB#12	23.63	22.73	33.00	PASS
Band41	5MHz	16QAM	39675	1RB#24	23.43	22.53	33.00	PASS
Band41	5MHz	16QAM	39675	25RB#0	22.47	21.57	33.00	PASS
Band41	5MHz	16QAM	40620	1RB#0	23.92	23.02	33.00	PASS
Band41	5MHz	16QAM	40620	1RB#12	24.08	23.18	33.00	PASS
Band41	5MHz	16QAM	40620	1RB#24	23.82	22.92	33.00	PASS
Band41	5MHz	16QAM	40620	25RB#0	22.79	21.89	33.00	PASS
Band41	5MHz	16QAM	41565	1RB#0	23.87	22.97	33.00	PASS
Band41	5MHz	16QAM	41565	1RB#12	24.02	23.12	33.00	PASS
Band41	5MHz	16QAM	41565	1RB#24	23.80	22.90	33.00	PASS



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Band41	5MHz	16QAM	41565	25RB#0	22.83	21.93	33.00	PASS
Band41	5MHz	64QAM	39675	1RB#0	22.30	21.40	33.00	PASS
Band41	5MHz	64QAM	39675	1RB#12	22.45	21.55	33.00	PASS
Band41	5MHz	64QAM	39675	1RB#24	22.28	21.38	33.00	PASS
Band41	5MHz	64QAM	39675	25RB#0	21.52	20.62	33.00	PASS
Band41	5MHz	64QAM	40620	1RB#0	22.70	21.80	33.00	PASS
Band41	5MHz	64QAM	40620	1RB#12	22.80	21.90	33.00	PASS
Band41	5MHz	64QAM	40620	1RB#24	22.60	21.70	33.00	PASS
Band41	5MHz	64QAM	40620	25RB#0	21.85	20.95	33.00	PASS
Band41	5MHz	64QAM	41565	1RB#0	22.71	21.81	33.00	PASS
Band41	5MHz	64QAM	41565	1RB#12	22.85	21.95	33.00	PASS
Band41	5MHz	64QAM	41565	1RB#24	22.64	21.74	33.00	PASS
Band41	5MHz	64QAM	41565	25RB#0	21.85	20.95	33.00	PASS
Band41	10MHz	QPSK	39700	1RB#0	24.75	23.85	33.00	PASS
Band41	10MHz	QPSK	39700	1RB#24	24.76	23.86	33.00	PASS
Band41	10MHz	QPSK	39700	1RB#49	24.55	23.65	33.00	PASS
Band41	10MHz	QPSK	39700	50RB#0	23.75	22.85	33.00	PASS
Band41	10MHz	QPSK	40620	1RB#0	24.81	23.91	33.00	PASS
Band41	10MHz	QPSK	40620	1RB#24	24.88	23.98	33.00	PASS
Band41	10MHz	QPSK	40620	1RB#49	24.64	23.74	33.00	PASS
Band41	10MHz	QPSK	40620	50RB#0	23.91	23.01	33.00	PASS
Band41	10MHz	QPSK	41540	1RB#0	24.70	23.80	33.00	PASS
Band41	10MHz	QPSK	41540	1RB#24	24.84	23.94	33.00	PASS
Band41	10MHz	QPSK	41540	1RB#49	24.63	23.73	33.00	PASS
Band41	10MHz	QPSK	41540	50RB#0	23.88	22.98	33.00	PASS
Band41	10MHz	16QAM	39700	1RB#0	23.94	23.04	33.00	PASS
Band41	10MHz	16QAM	39700	1RB#24	23.94	23.04	33.00	PASS
Band41	10MHz	16QAM	39700	1RB#49	23.74	22.84	33.00	PASS
Band41	10MHz	16QAM	39700	50RB#0	22.83	21.93	33.00	PASS
Band41	10MHz	16QAM	40620	1RB#0	24.10	23.20	33.00	PASS
Band41	10MHz	16QAM	40620	1RB#24	24.12	23.22	33.00	PASS
Band41	10MHz	16QAM	40620	1RB#49	23.91	23.01	33.00	PASS



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Band41	10MHz	16QAM	40620	50RB#0	22.94	22.04	33.00	PASS
Band41	10MHz	16QAM	41540	1RB#0	23.99	23.09	33.00	PASS
Band41	10MHz	16QAM	41540	1RB#24	24.08	23.18	33.00	PASS
Band41	10MHz	16QAM	41540	1RB#49	23.90	23.00	33.00	PASS
Band41	10MHz	16QAM	41540	50RB#0	22.90	22.00	33.00	PASS
Band41	10MHz	64QAM	39700	1RB#0	22.79	21.89	33.00	PASS
Band41	10MHz	64QAM	39700	1RB#24	22.79	21.89	33.00	PASS
Band41	10MHz	64QAM	39700	1RB#49	22.59	21.69	33.00	PASS
Band41	10MHz	64QAM	39700	50RB#0	21.81	20.91	33.00	PASS
Band41	10MHz	64QAM	40620	1RB#0	22.84	21.94	33.00	PASS
Band41	10MHz	64QAM	40620	1RB#24	22.91	22.01	33.00	PASS
Band41	10MHz	64QAM	40620	1RB#49	22.70	21.80	33.00	PASS
Band41	10MHz	64QAM	40620	50RB#0	21.91	21.01	33.00	PASS
Band41	10MHz	64QAM	41540	1RB#0	22.80	21.90	33.00	PASS
Band41	10MHz	64QAM	41540	1RB#24	22.94	22.04	33.00	PASS
Band41	10MHz	64QAM	41540	1RB#49	22.73	21.83	33.00	PASS
Band41	10MHz	64QAM	41540	50RB#0	21.91	21.01	33.00	PASS
Band41	15MHz	QPSK	39725	1RB#0	24.68	23.78	33.00	PASS
Band41	15MHz	QPSK	39725	1RB#38	24.56	23.66	33.00	PASS
Band41	15MHz	QPSK	39725	1RB#74	24.46	23.56	33.00	PASS
Band41	15MHz	QPSK	39725	75RB#0	23.60	22.70	33.00	PASS
Band41	15MHz	QPSK	40620	1RB#0	24.75	23.85	33.00	PASS
Band41	15MHz	QPSK	40620	1RB#38	24.74	23.84	33.00	PASS
Band41	15MHz	QPSK	40620	1RB#74	24.53	23.63	33.00	PASS
Band41	15MHz	QPSK	40620	75RB#0	23.81	22.91	33.00	PASS
Band41	15MHz	QPSK	41515	1RB#0	24.63	23.73	33.00	PASS
Band41	15MHz	QPSK	41515	1RB#38	24.70	23.80	33.00	PASS
Band41	15MHz	QPSK	41515	1RB#74	24.54	23.64	33.00	PASS
Band41	15MHz	QPSK	41515	75RB#0	23.82	22.92	33.00	PASS
Band41	15MHz	16QAM	39725	1RB#0	23.86	22.96	33.00	PASS
Band41	15MHz	16QAM	39725	1RB#38	23.76	22.86	33.00	PASS
Band41	15MHz	16QAM	39725	1RB#74	23.64	22.74	33.00	PASS



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Band41	15MHz	16QAM	39725	75RB#0	22.65	21.75	33.00	PASS
Band41	15MHz	16QAM	40620	1RB#0	24.01	23.11	33.00	PASS
Band41	15MHz	16QAM	40620	1RB#38	24.01	23.11	33.00	PASS
Band41	15MHz	16QAM	40620	1RB#74	23.81	22.91	33.00	PASS
Band41	15MHz	16QAM	40620	75RB#0	22.81	21.91	33.00	PASS
Band41	15MHz	16QAM	41515	1RB#0	23.91	23.01	33.00	PASS
Band41	15MHz	16QAM	41515	1RB#38	23.97	23.07	33.00	PASS
Band41	15MHz	16QAM	41515	1RB#74	23.80	22.90	33.00	PASS
Band41	15MHz	16QAM	41515	75RB#0	22.83	21.93	33.00	PASS
Band41	15MHz	64QAM	39725	1RB#0	22.70	21.80	33.00	PASS
Band41	15MHz	64QAM	39725	1RB#38	22.61	21.71	33.00	PASS
Band41	15MHz	64QAM	39725	1RB#74	22.48	21.58	33.00	PASS
Band41	15MHz	64QAM	39725	75RB#0	21.65	20.75	33.00	PASS
Band41	15MHz	64QAM	40620	1RB#0	22.78	21.88	33.00	PASS
Band41	15MHz	64QAM	40620	1RB#38	22.79	21.89	33.00	PASS
Band41	15MHz	64QAM	40620	1RB#74	22.57	21.67	33.00	PASS
Band41	15MHz	64QAM	40620	75RB#0	21.81	20.91	33.00	PASS
Band41	15MHz	64QAM	41515	1RB#0	22.73	21.83	33.00	PASS
Band41	15MHz	64QAM	41515	1RB#38	22.83	21.93	33.00	PASS
Band41	15MHz	64QAM	41515	1RB#74	22.63	21.73	33.00	PASS
Band41	15MHz	64QAM	41515	75RB#0	21.86	20.96	33.00	PASS
Band41	20MHz	QPSK	39750	1RB#0	24.69	23.79	33.00	PASS
Band41	20MHz	QPSK	39750	1RB#49	24.61	23.71	33.00	PASS
Band41	20MHz	QPSK	39750	1RB#99	24.51	23.61	33.00	PASS
Band41	20MHz	QPSK	39750	100RB#0	23.65	22.75	33.00	PASS
Band41	20MHz	QPSK	40620	1RB#0	24.80	23.90	33.00	PASS
Band41	20MHz	QPSK	40620	1RB#49	24.83	23.93	33.00	PASS
Band41	20MHz	QPSK	40620	1RB#99	24.44	23.54	33.00	PASS
Band41	20MHz	QPSK	40620	100RB#0	23.85	22.95	33.00	PASS
Band41	20MHz	QPSK	41490	1RB#0	24.68	23.78	33.00	PASS
Band41	20MHz	QPSK	41490	1RB#49	24.78	23.88	33.00	PASS
Band41	20MHz	QPSK	41490	1RB#99	24.48	23.58	33.00	PASS



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Band41	20MHz	16QAM	39750	1RB#0	23.86	22.96	33.00	PASS
Band41	20MHz	16QAM	39750	1RB#49	23.82	22.92	33.00	PASS
Band41	20MHz	16QAM	39750	1RB#99	23.70	22.80	33.00	PASS
Band41	20MHz	16QAM	39750	100RB#0	22.70	21.80	33.00	PASS
Band41	20MHz	16QAM	40620	1RB#0	24.07	23.17	33.00	PASS
Band41	20MHz	16QAM	40620	1RB#49	24.08	23.18	33.00	PASS
Band41	20MHz	16QAM	40620	1RB#99	23.75	22.85	33.00	PASS
Band41	20MHz	16QAM	40620	100RB#0	22.88	21.98	33.00	PASS
Band41	20MHz	16QAM	41490	1RB#0	23.96	23.06	33.00	PASS
Band41	20MHz	16QAM	41490	1RB#49	24.03	23.13	33.00	PASS
Band41	20MHz	16QAM	41490	1RB#99	23.76	22.86	33.00	PASS
Band41	20MHz	16QAM	41490	100RB#0	22.89	21.99	33.00	PASS
Band41	20MHz	64QAM	39750	1RB#0	22.71	21.81	33.00	PASS
Band41	20MHz	64QAM	39750	1RB#49	22.71	21.81	33.00	PASS
Band41	20MHz	64QAM	39750	1RB#99	22.53	21.63	33.00	PASS
Band41	20MHz	64QAM	39750	100RB#0	21.68	20.78	33.00	PASS
Band41	20MHz	64QAM	40620	1RB#0	22.85	21.95	33.00	PASS
Band41	20MHz	64QAM	40620	1RB#49	22.86	21.96	33.00	PASS
Band41	20MHz	64QAM	40620	1RB#99	22.45	21.55	33.00	PASS
Band41	20MHz	64QAM	40620	100RB#0	21.86	20.96	33.00	PASS
Band41	20MHz	64QAM	41490	1RB#0	22.75	21.85	33.00	PASS
Band41	20MHz	64QAM	41490	1RB#49	22.86	21.96	33.00	PASS
Band41	20MHz	64QAM	41490	1RB#99	22.59	21.69	33.00	PASS
Band41	20MHz	64QAM	41490	100RB#0	21.91	21.01	33.00	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band41	20MHz	QPSK	39750	100RB#0	8.34	13	PASS
Band41	20MHz	QPSK	40620	100RB#0	8.16	13	PASS
Band41	20MHz	QPSK	41490	100RB#0	7.40	13	PASS
Band41	20MHz	16QAM	39750	100RB#0	9.02	13	PASS
Band41	20MHz	16QAM	40620	100RB#0	9.04	13	PASS
Band41	20MHz	16QAM	41490	100RB#0	8.32	13	PASS
Band41	20MHz	64QAM	39750	100RB#0	9.38	13	PASS
Band41	20MHz	64QAM	40620	100RB#0	9.56	13	PASS
Band41	20MHz	64QAM	41490	100RB#0	9.26	13	PASS



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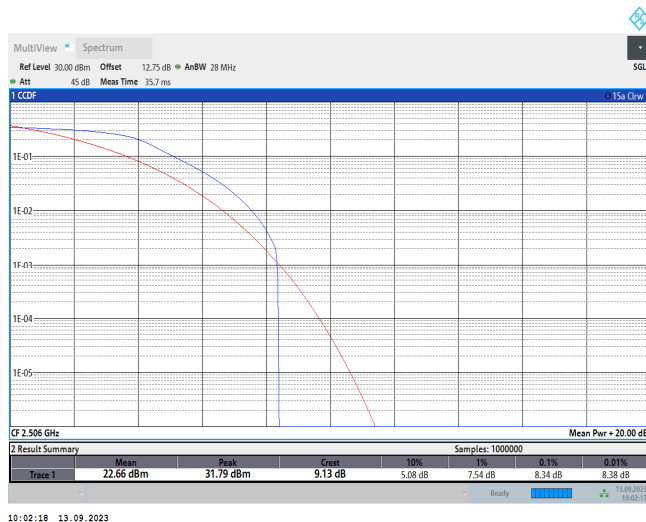
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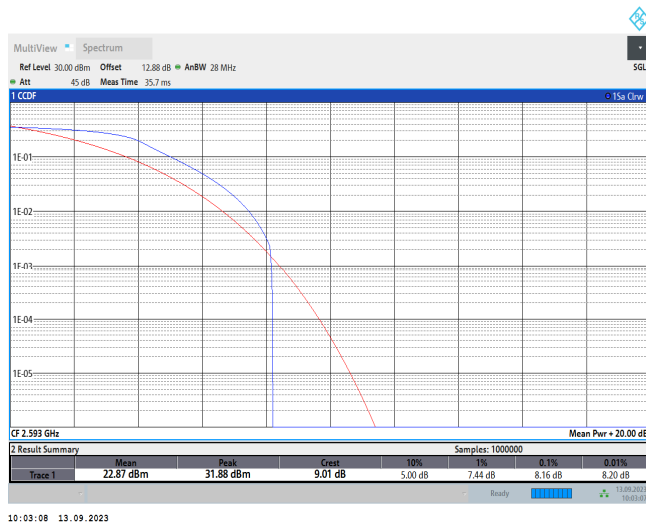
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Test Graphs

Band41-20MHz-QPSK-39750-100RB#0



Band41-20MHz-QPSK-40620-100RB#0



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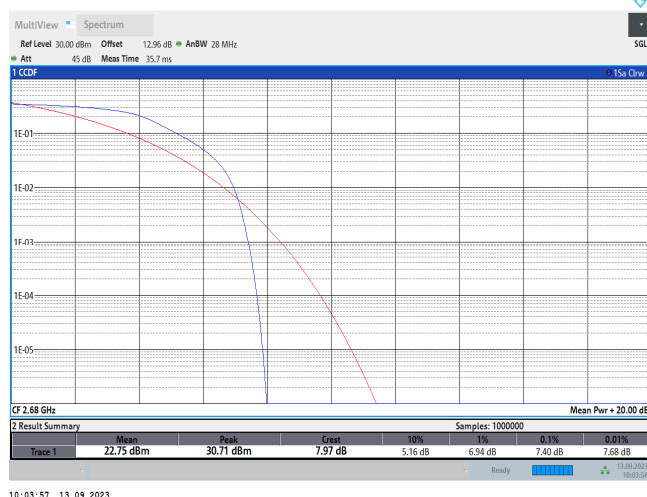
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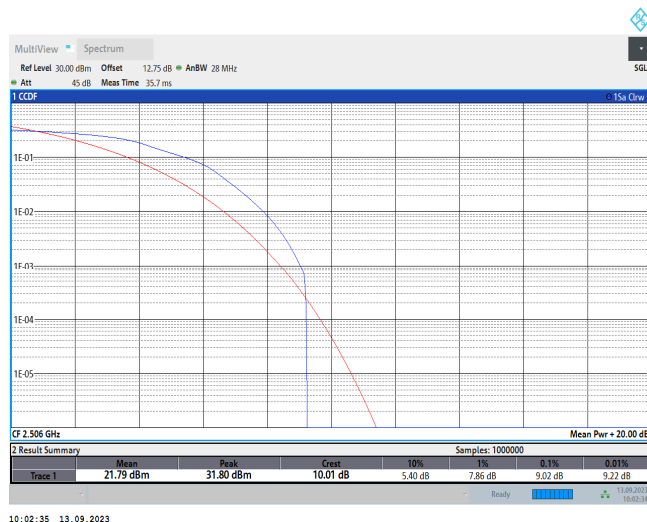
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Band41-20MHz-QPSK-41490-100RB#0



Band41-20MHz-16QAM-39750-100RB#0



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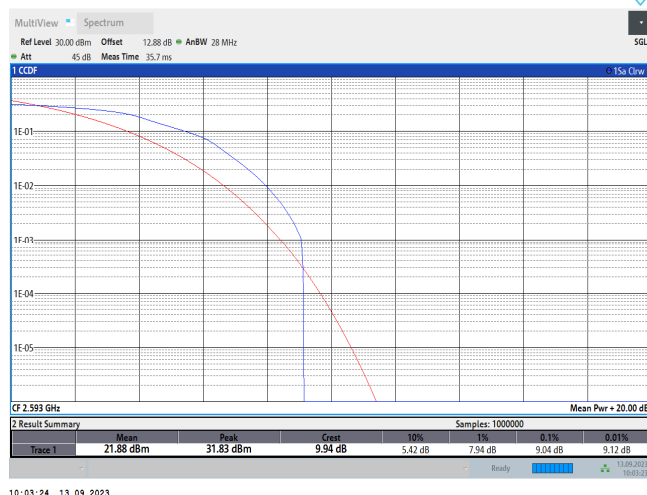
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Band41-20MHz-16QAM-40620-100RB#0



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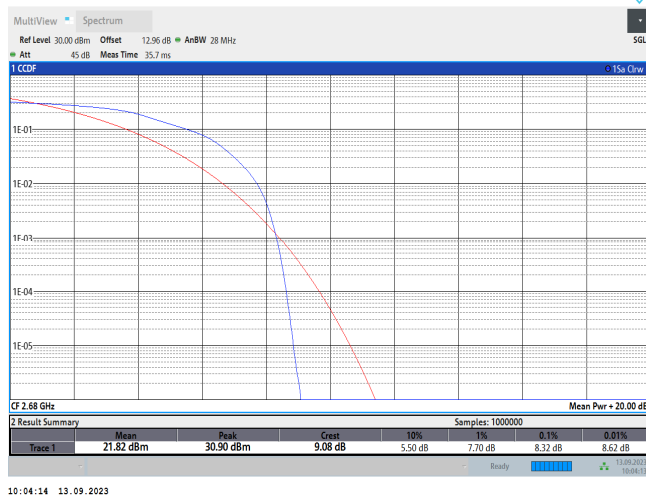
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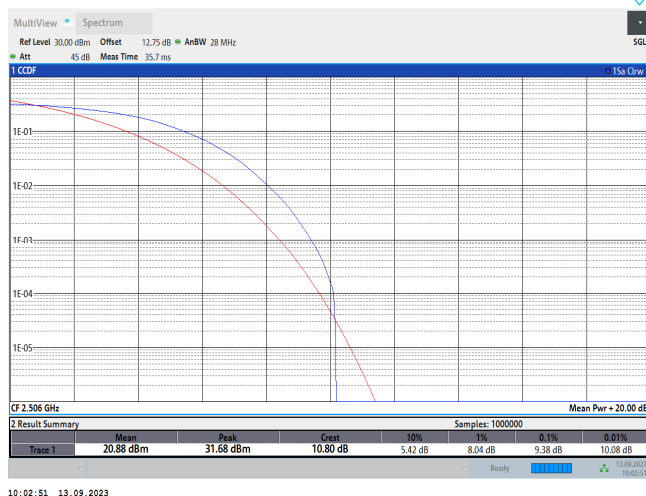
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Band41-20MHz-16QAM-41490-100RB#0



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Band41-20MHz-64QAM-39750-100RB#0



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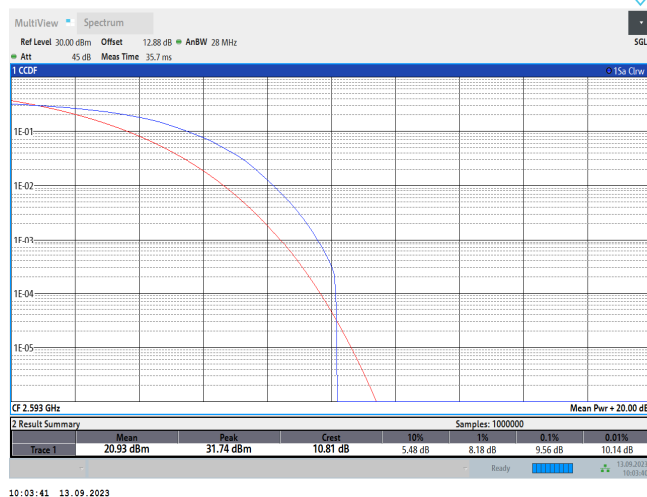
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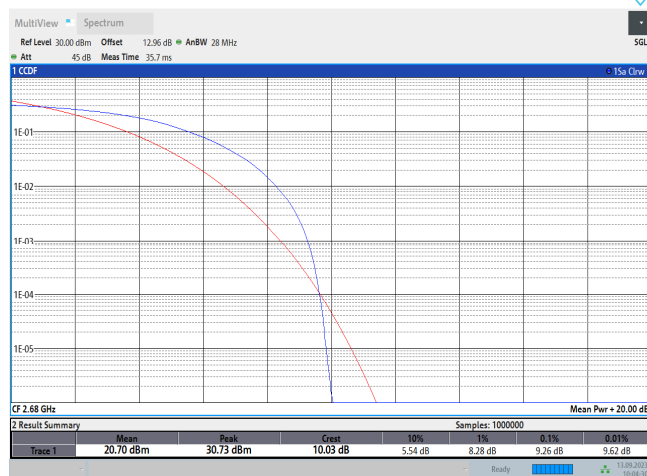
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Band41-20MHz-64QAM-40620-100RB#0



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Band41-20MHz-64QAM-41490-100RB#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
Band41	5MHz	QPSK	39675	25RB#0	4.471	4.82	PASS
Band41	5MHz	QPSK	40620	25RB#0	4.474	4.82	PASS
Band41	5MHz	QPSK	41565	25RB#0	4.47	4.82	PASS
Band41	5MHz	16QAM	39675	25RB#0	4.465	4.87	PASS
Band41	5MHz	16QAM	40620	25RB#0	4.469	4.90	PASS
Band41	5MHz	16QAM	41565	25RB#0	4.472	4.92	PASS
Band41	5MHz	64QAM	39675	25RB#0	4.47	4.82	PASS
Band41	5MHz	64QAM	40620	25RB#0	4.467	4.84	PASS
Band41	5MHz	64QAM	41565	25RB#0	4.474	4.85	PASS
Band41	10MHz	QPSK	39700	50RB#0	8.925	9.62	PASS
Band41	10MHz	QPSK	40620	50RB#0	8.921	9.62	PASS
Band41	10MHz	QPSK	41540	50RB#0	8.934	9.64	PASS
Band41	10MHz	16QAM	39700	50RB#0	8.909	9.60	PASS
Band41	10MHz	16QAM	40620	50RB#0	8.92	9.76	PASS
Band41	10MHz	16QAM	41540	50RB#0	8.918	9.76	PASS
Band41	10MHz	64QAM	39700	50RB#0	8.924	9.84	PASS
Band41	10MHz	64QAM	40620	50RB#0	8.923	9.54	PASS
Band41	10MHz	64QAM	41540	50RB#0	8.934	9.62	PASS
Band41	15MHz	QPSK	39725	75RB#0	13.5	15.69	PASS
Band41	15MHz	QPSK	40620	75RB#0	13.499	15.21	PASS
Band41	15MHz	QPSK	41515	75RB#0	13.506	15.63	PASS
Band41	15MHz	16QAM	39725	75RB#0	13.488	15.51	PASS
Band41	15MHz	16QAM	40620	75RB#0	13.479	15.12	PASS
Band41	15MHz	16QAM	41515	75RB#0	13.489	15.45	PASS
Band41	15MHz	64QAM	39725	75RB#0	13.454	14.97	PASS
Band41	15MHz	64QAM	40620	75RB#0	13.448	14.88	PASS
Band41	15MHz	64QAM	41515	75RB#0	13.457	15.45	PASS



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Band41	20MHz	QPSK	39750	100RB#0	17.926	19.76	PASS
Band41	20MHz	QPSK	40620	100RB#0	17.944	19.72	PASS
Band41	20MHz	QPSK	41490	100RB#0	17.946	19.84	PASS
Band41	20MHz	16QAM	39750	100RB#0	17.907	19.40	PASS
Band41	20MHz	16QAM	40620	100RB#0	17.911	19.56	PASS
Band41	20MHz	16QAM	41490	100RB#0	17.919	19.72	PASS
Band41	20MHz	64QAM	39750	100RB#0	17.913	19.68	PASS
Band41	20MHz	64QAM	40620	100RB#0	17.893	19.48	PASS
Band41	20MHz	64QAM	41490	100RB#0	17.911	19.72	PASS



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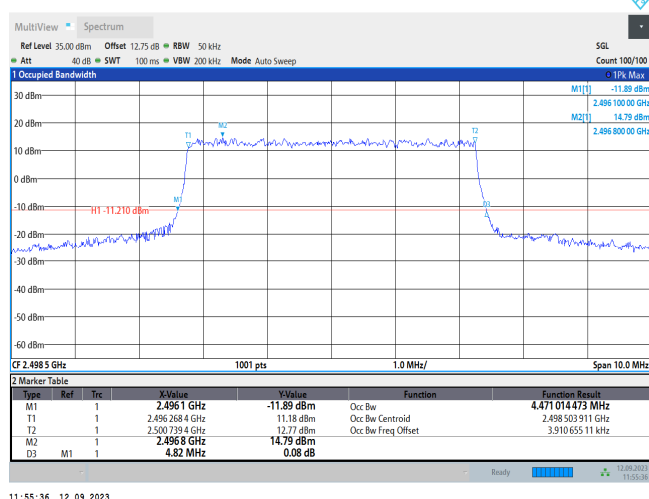
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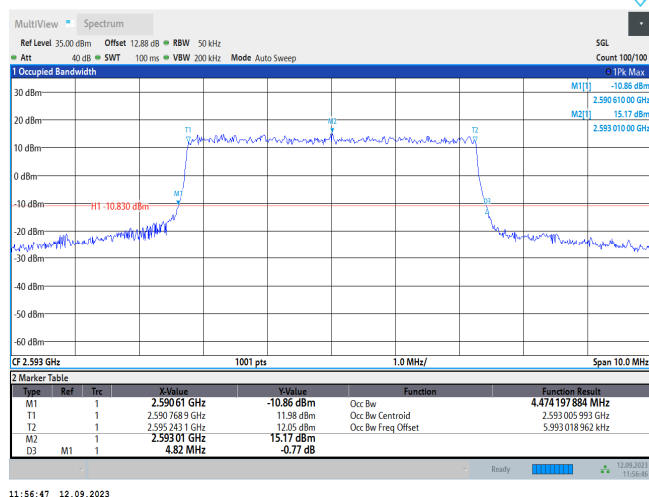
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Test Graphs

Band41-5MHz-QPSK-39675-25RB#0



Band41-5MHz-QPSK-40620-25RB#0



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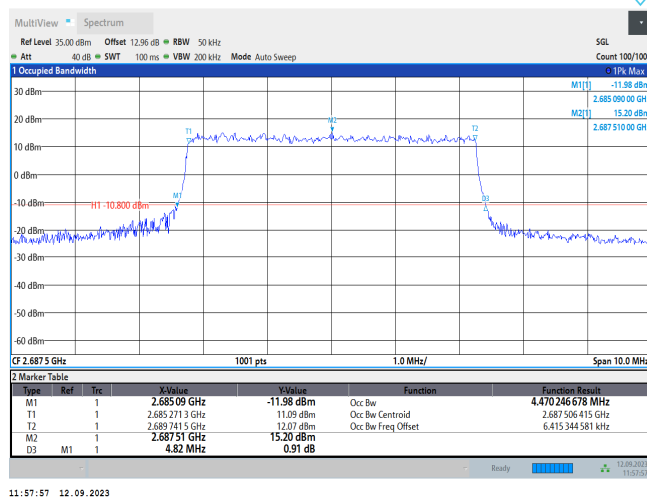
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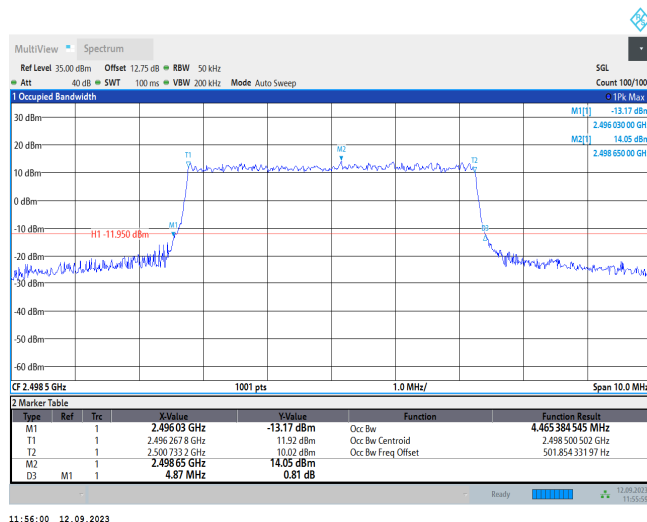
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Band41-5MHz-QPSK-41565-25RB#0



Band41-5MHz-16QAM-39675-25RB#0



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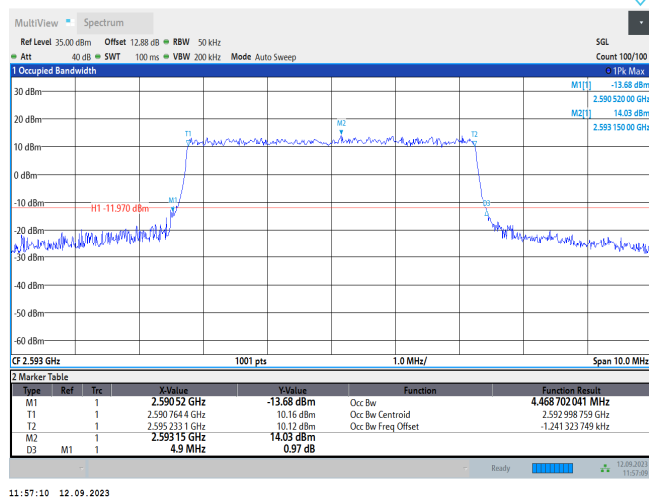
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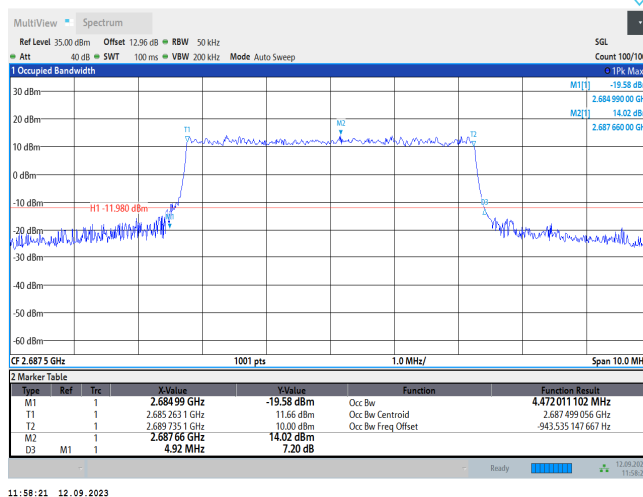
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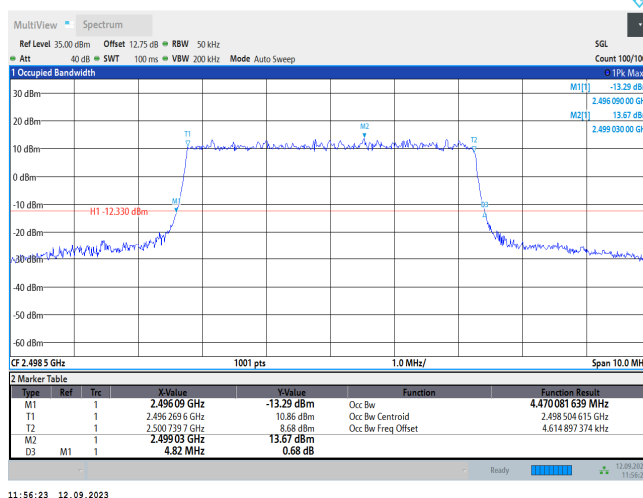
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Band41-5MHz-64QAM-39675-25RB#0



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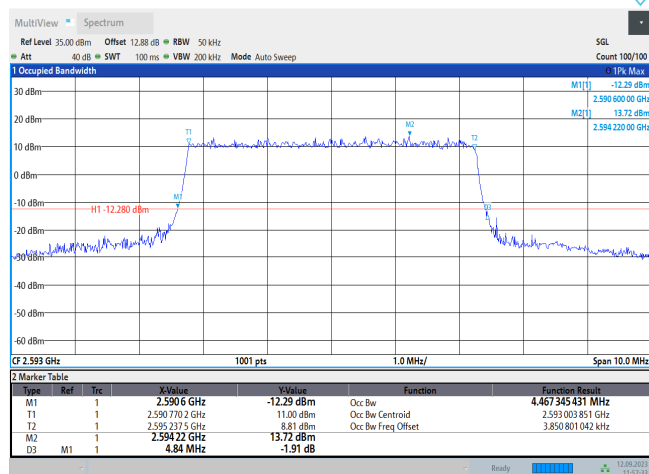
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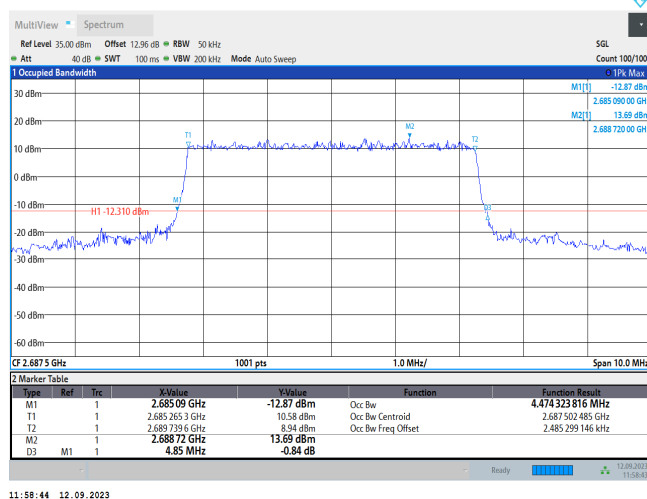
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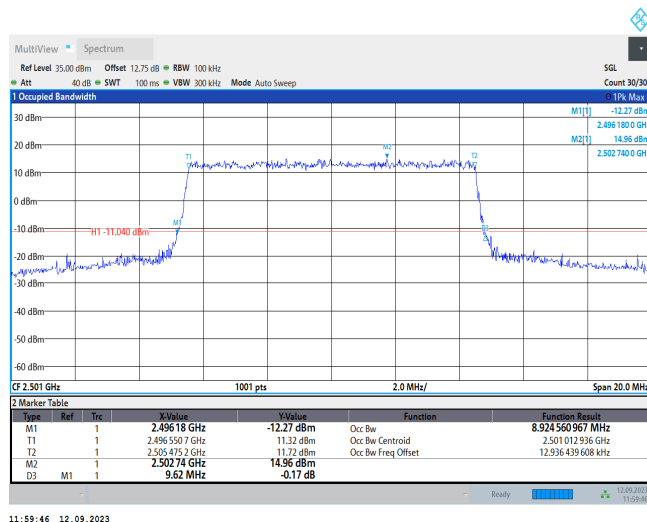
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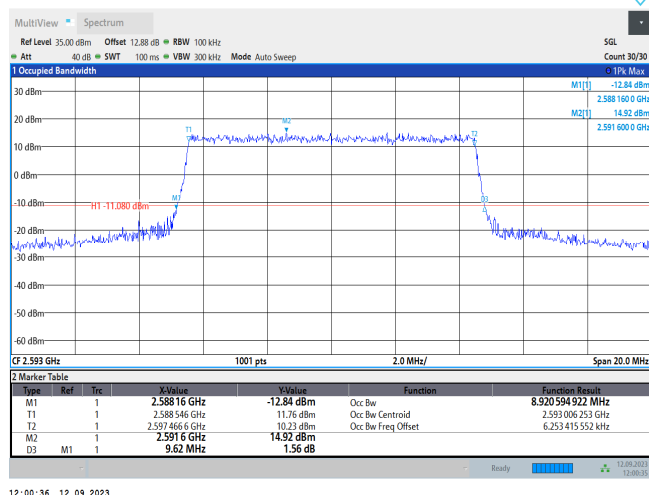
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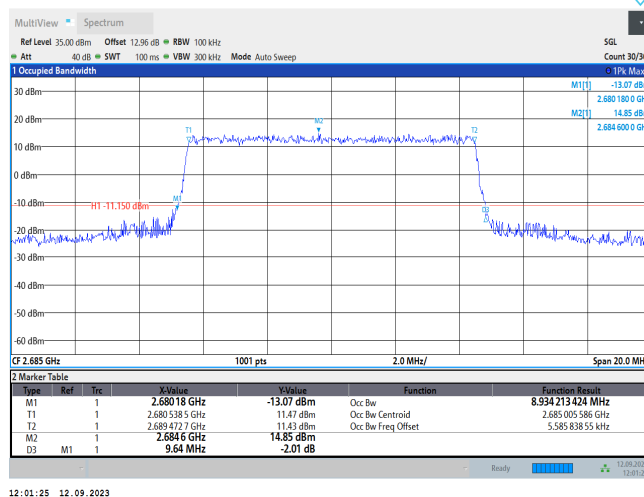
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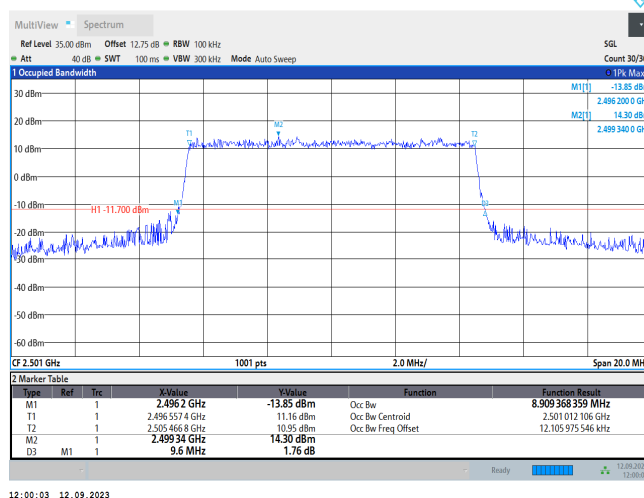
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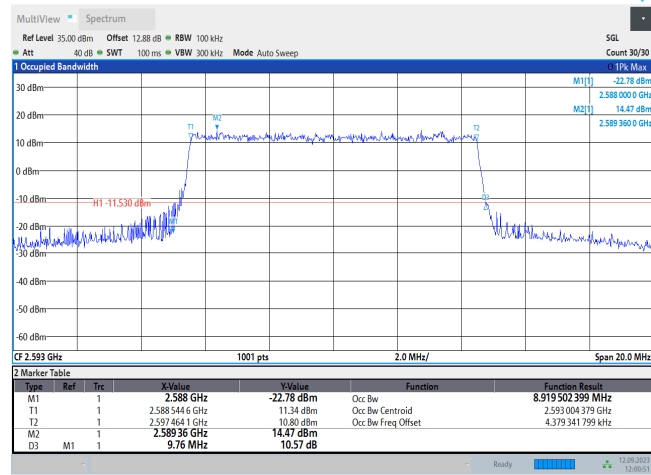
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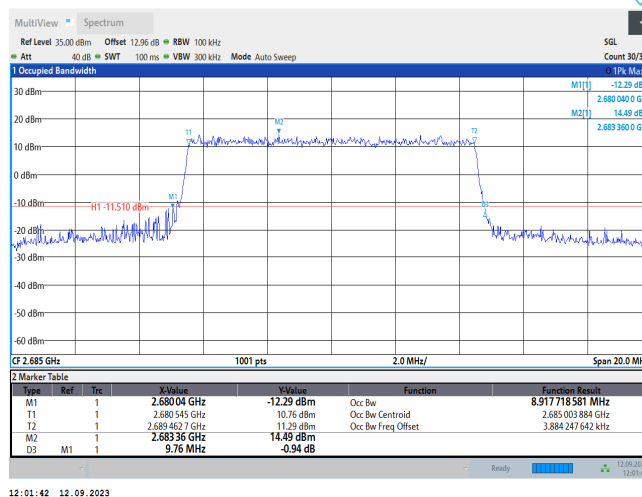
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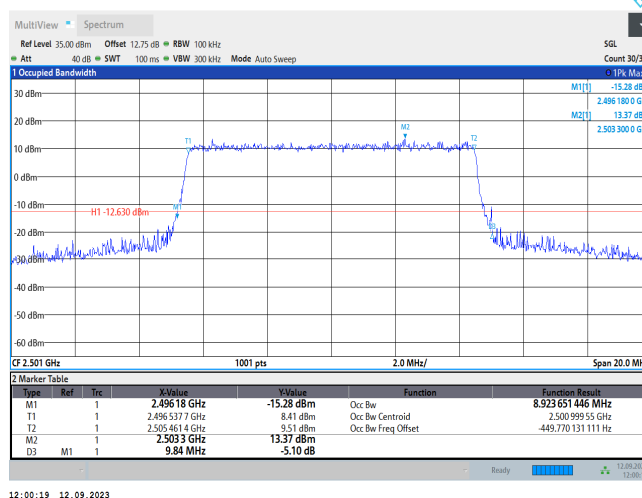
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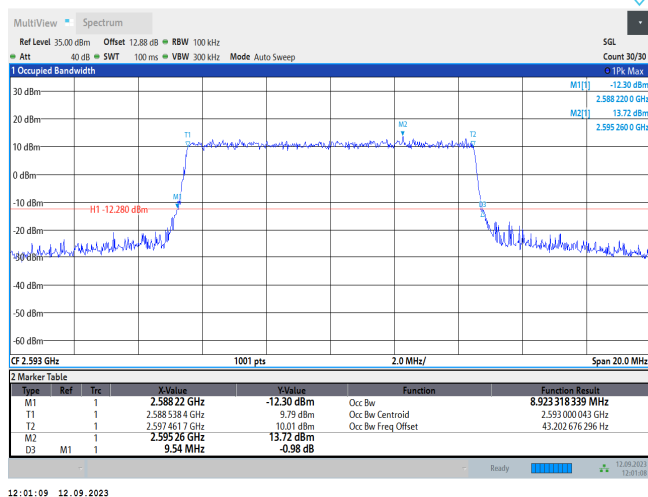
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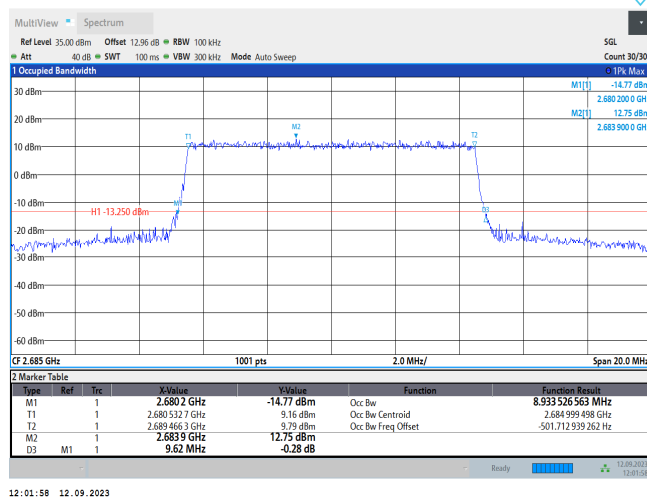
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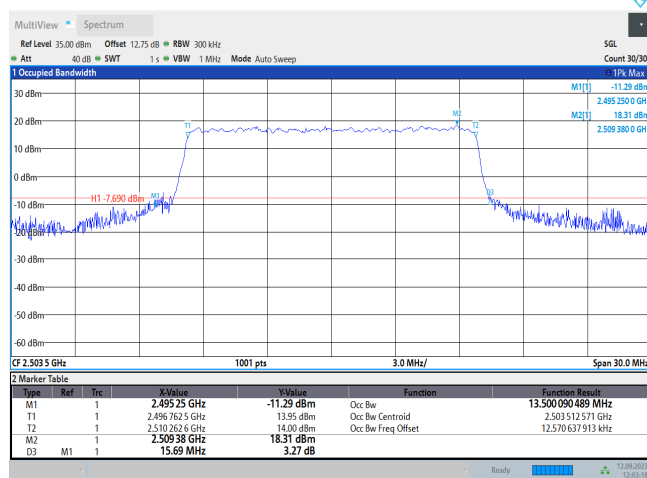
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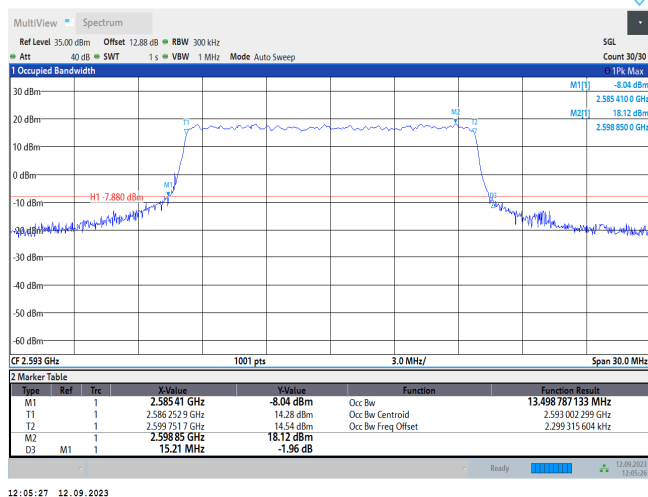
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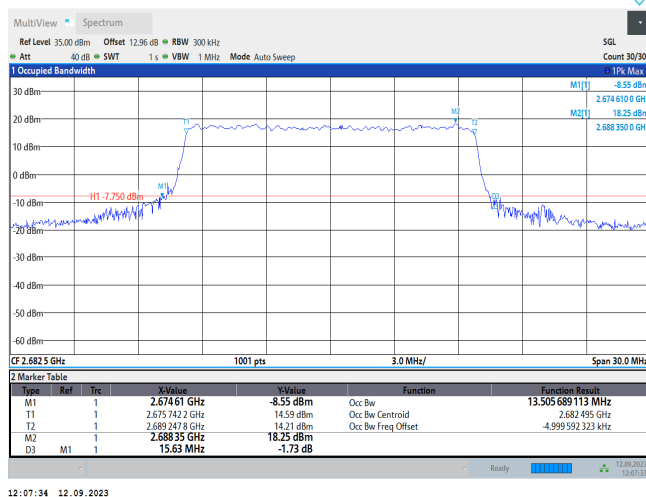
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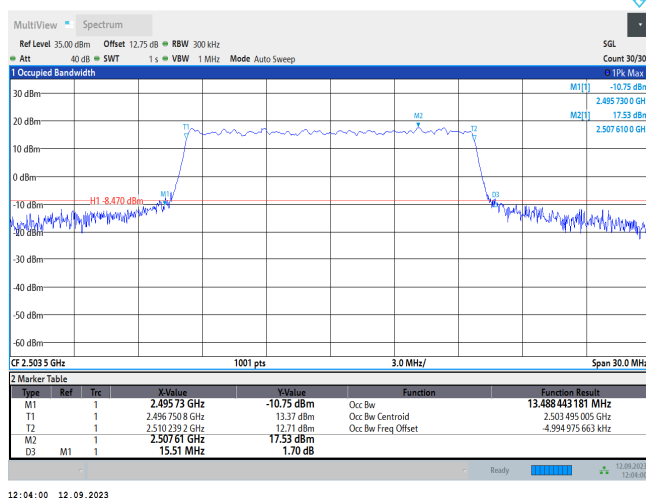
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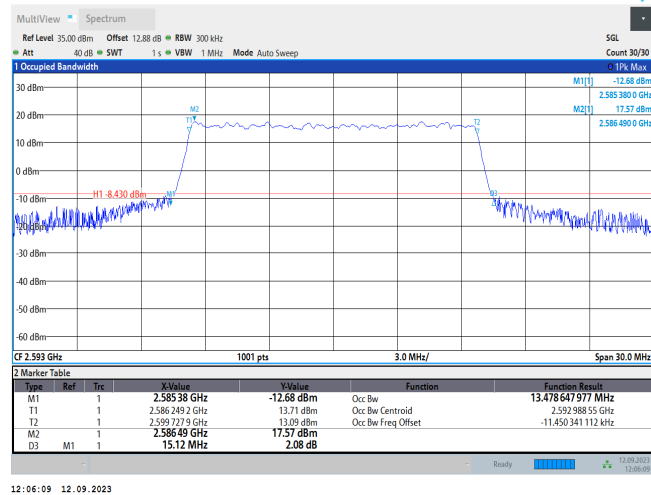
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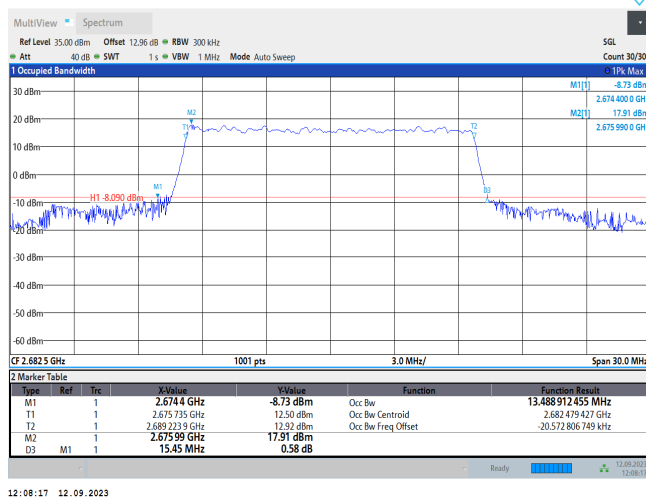
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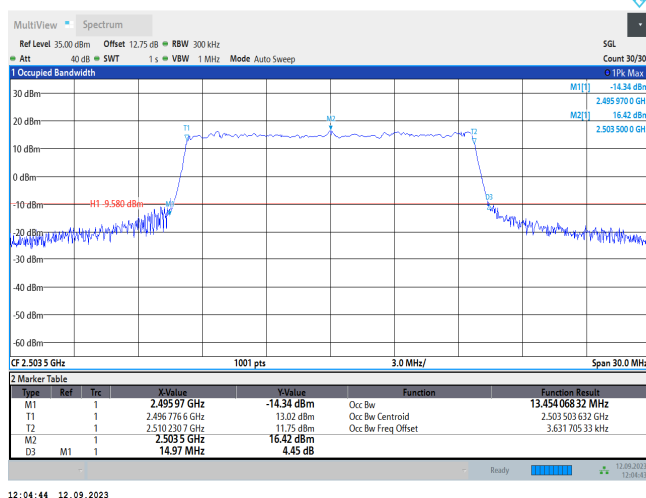
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Band41-15MHz-16QAM-41515-75RB#0



Band41-15MHz-64QAM-39725-75RB#0



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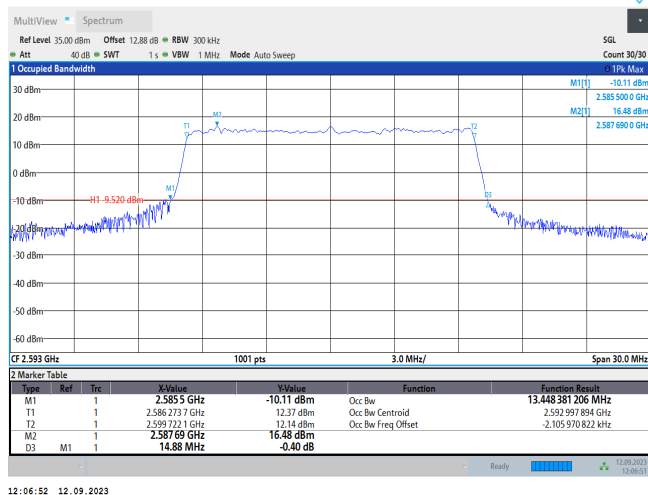
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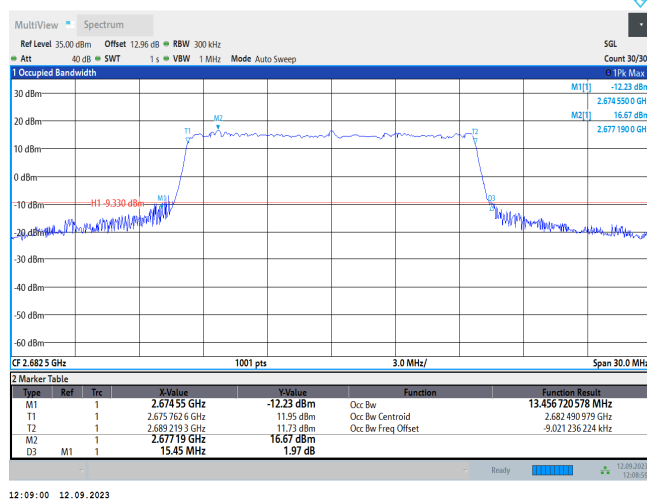
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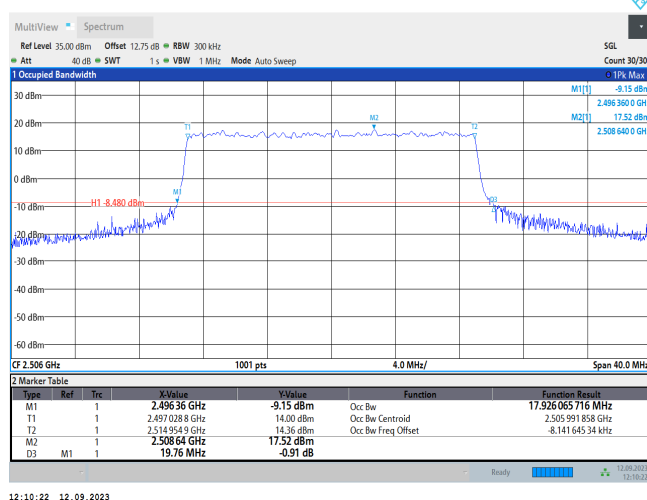
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Band41-20MHz-QPSK-39750-100RB#0



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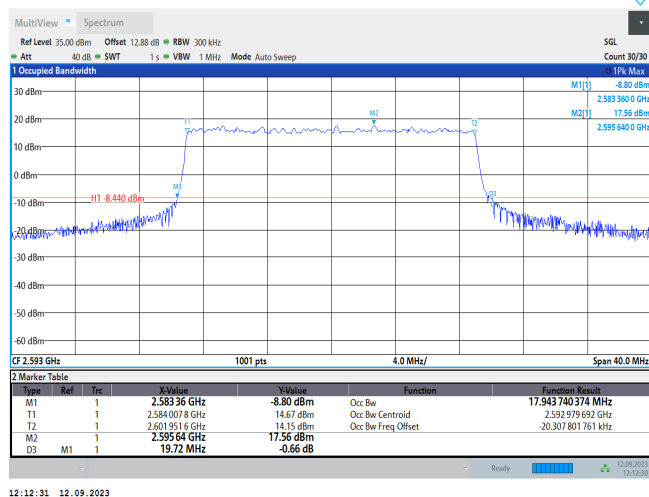
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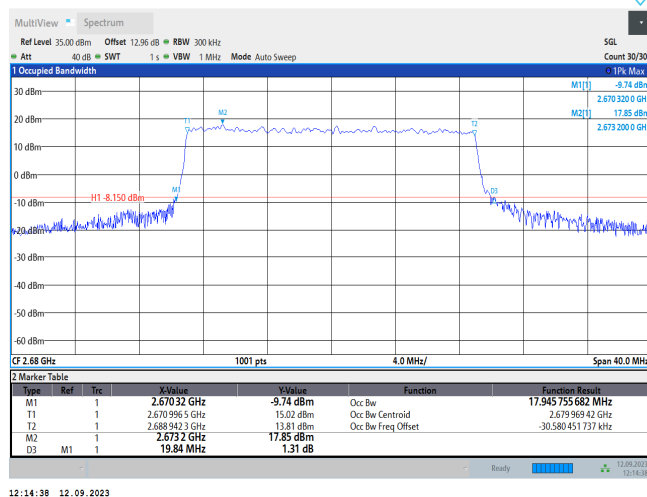
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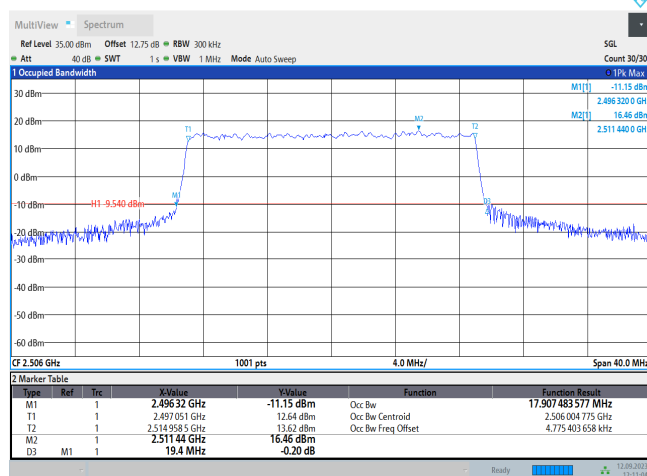
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Band41-20MHz-16QAM-39750-100RB#0



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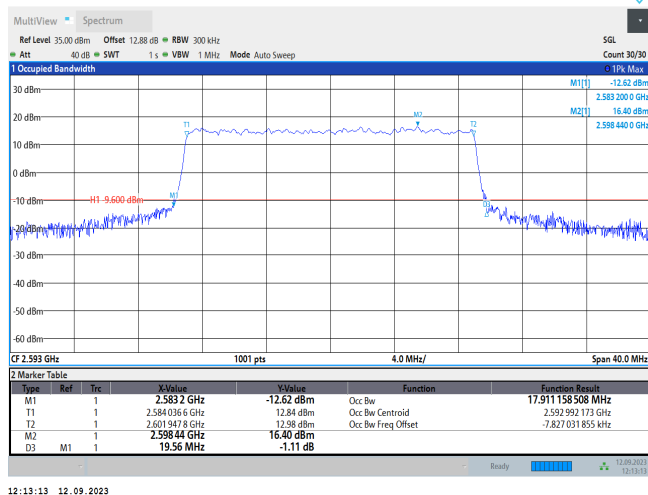
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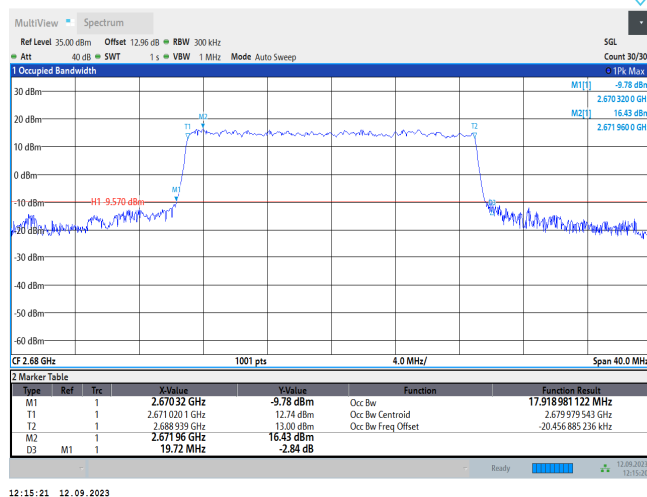
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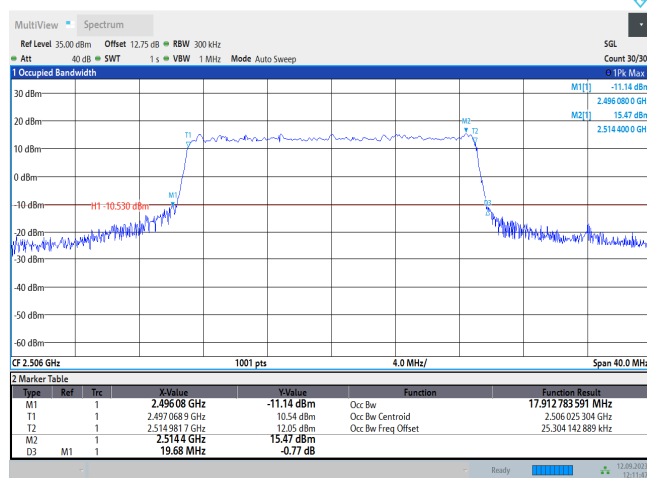
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Band41-20MHz-64QAM-39750-100RB#0



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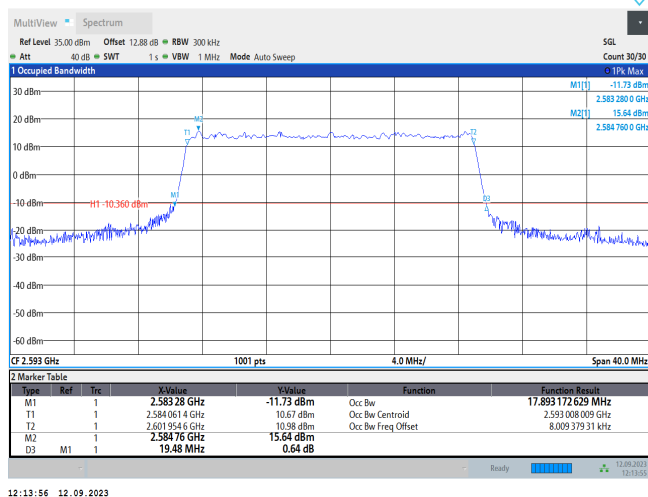
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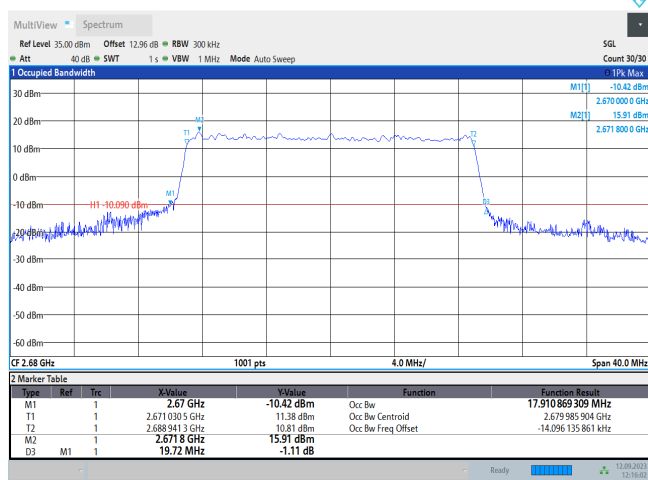
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Test Graphs

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Band41-5MHz-QPSK-39675-25RB#0



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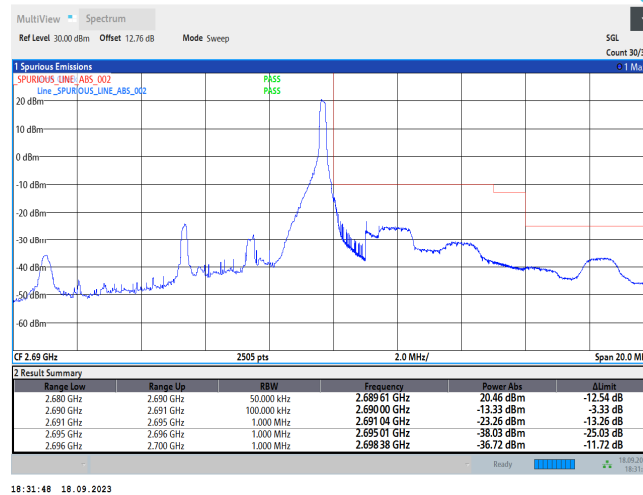
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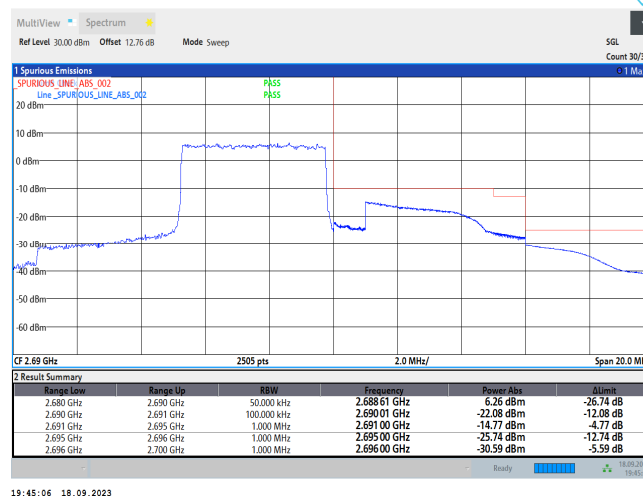
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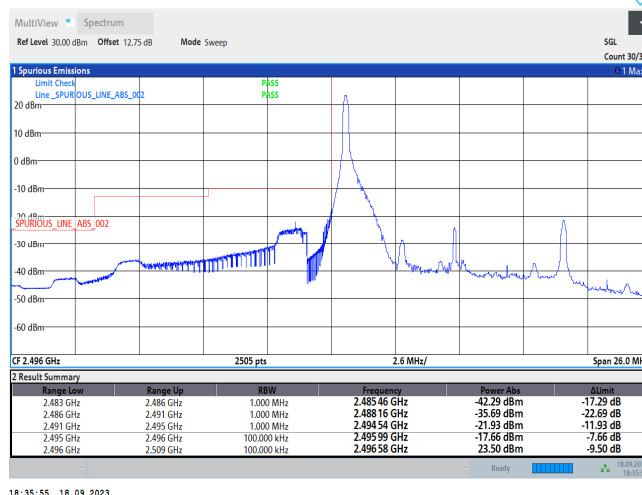
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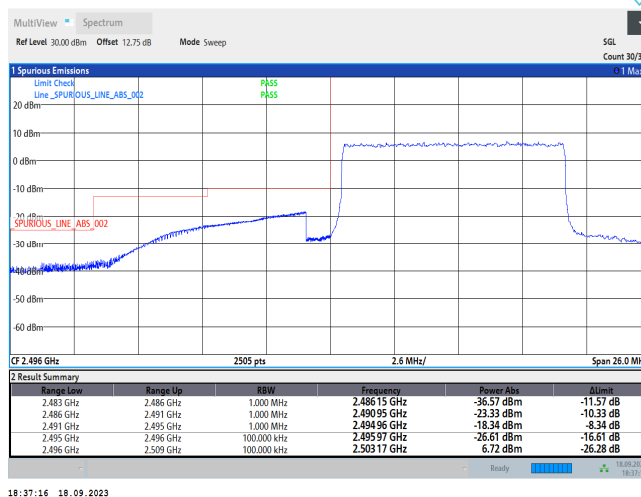
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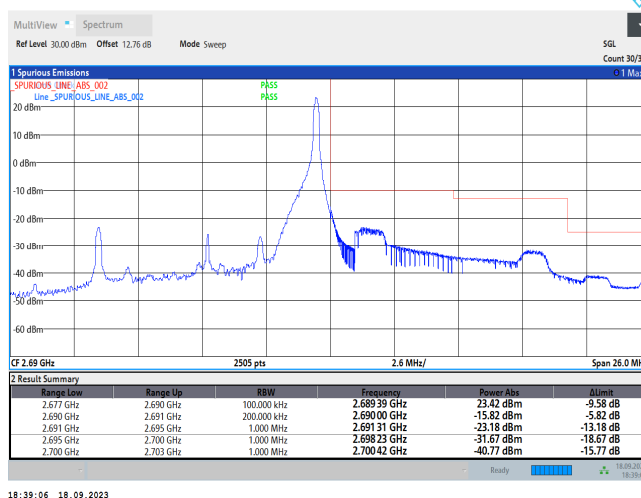
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Band41-10MHz-QPSK-41540-1RB#49



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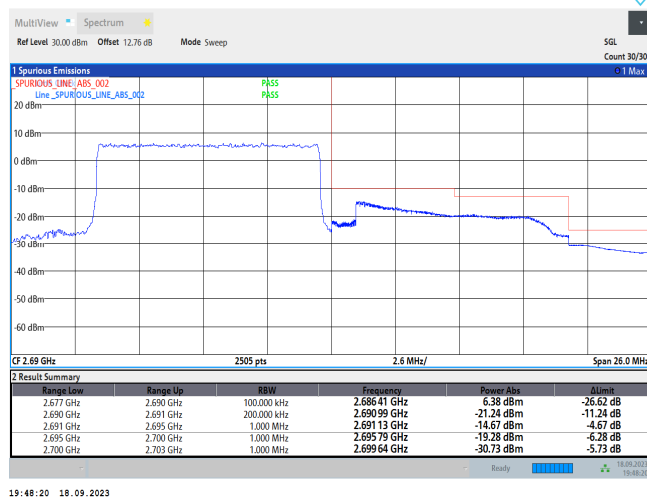
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Band41-10MHz-QPSK-41540-50RB#0



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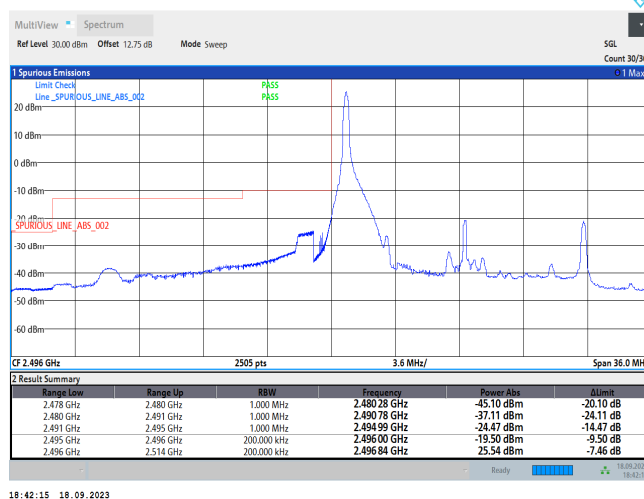
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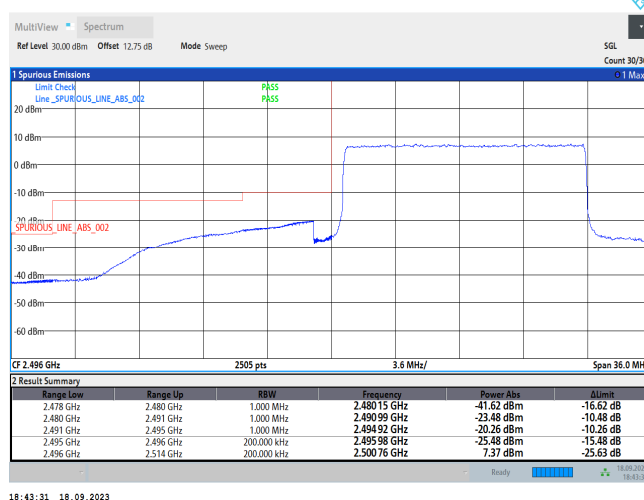
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Band41-15MHz-QPSK-39725-1RB#0



18:42:15 18.09.2023

Band41-15MHz-QPSK-39725-75RB#0



18:43:31 18.09.2023



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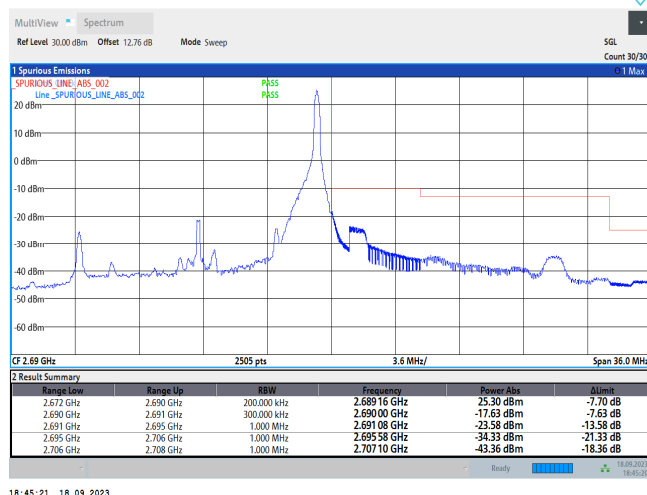
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Band41-15MHz-QPSK-41515-1RB#74



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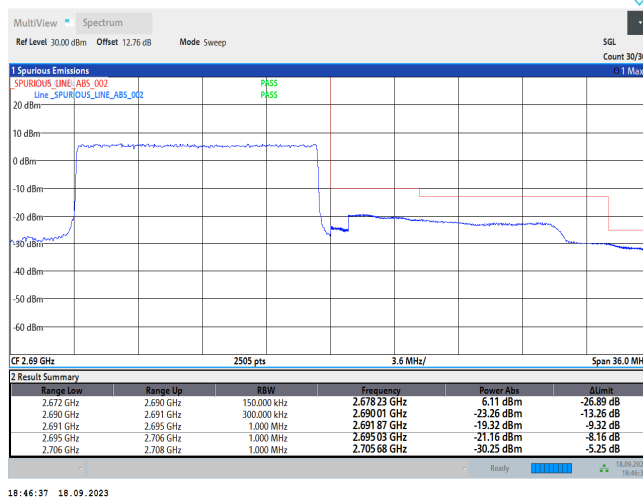
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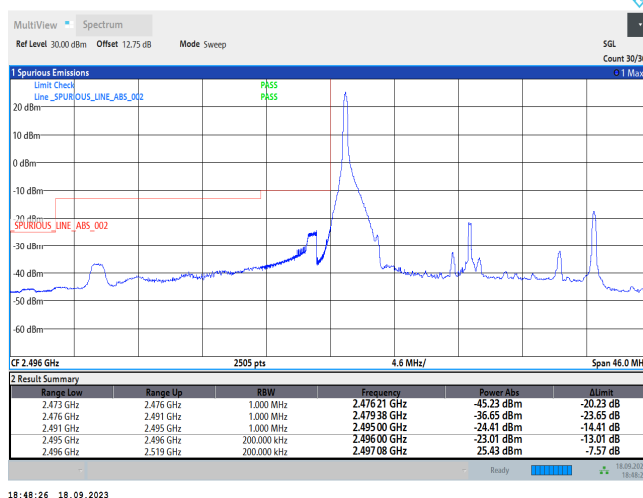
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Band41-15MHz-QPSK-41515-75RB#0



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Band41-20MHz-QPSK-39750-1RB#0



18:48:26 18.09.2023



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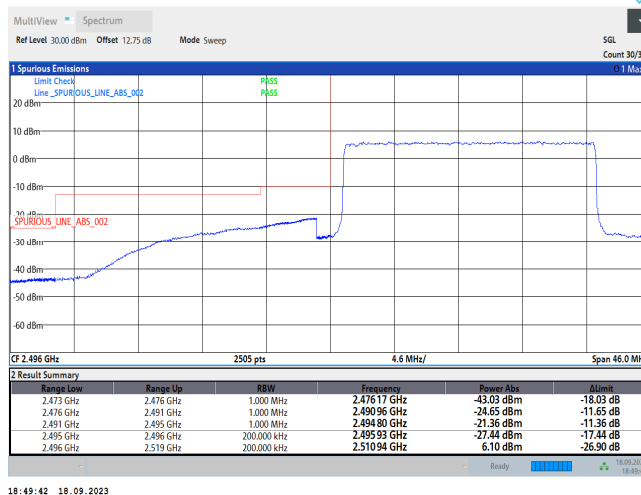
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Band41-20MHz-QPSK-39750-100RB#0



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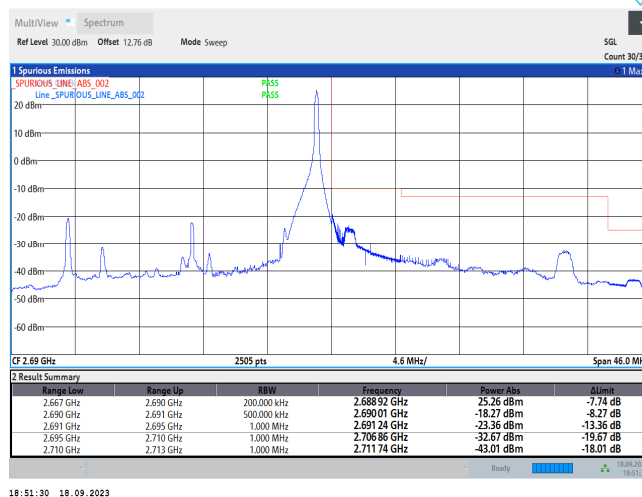
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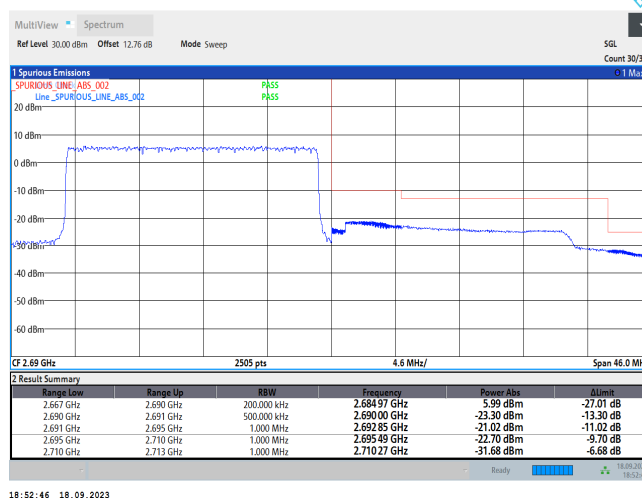
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Band41-20MHz-QPSK-41490-1RB#99



18:51:30 18.09.2023

Band41-20MHz-QPSK-41490-100RB#0



18:52:46 18.09.2023



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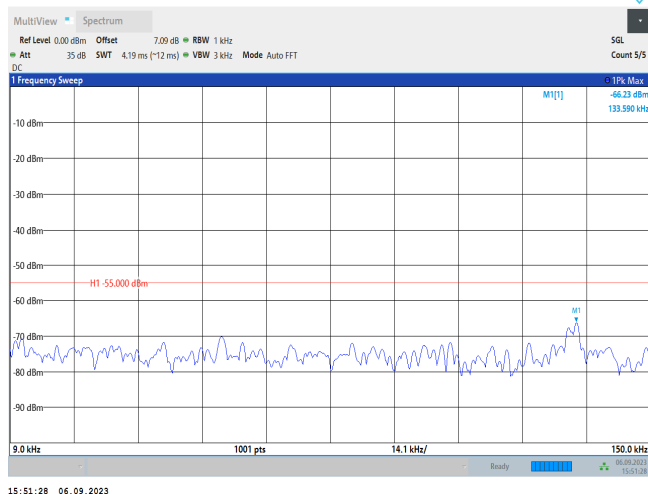
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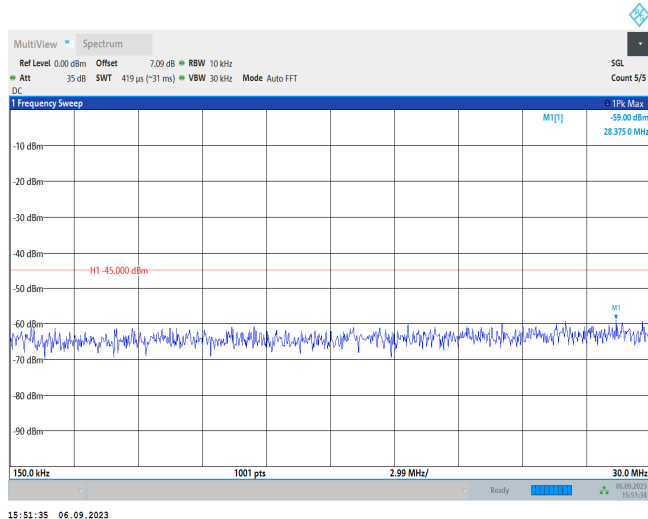
Conducted Spurious Emission

Test Graphs

Band41-20MHz-QPSK-39750-1RB#0-Range1:0.009~0.15MHz



Band41-20MHz-QPSK-39750-1RB#0-Range2:0.15~30MHz



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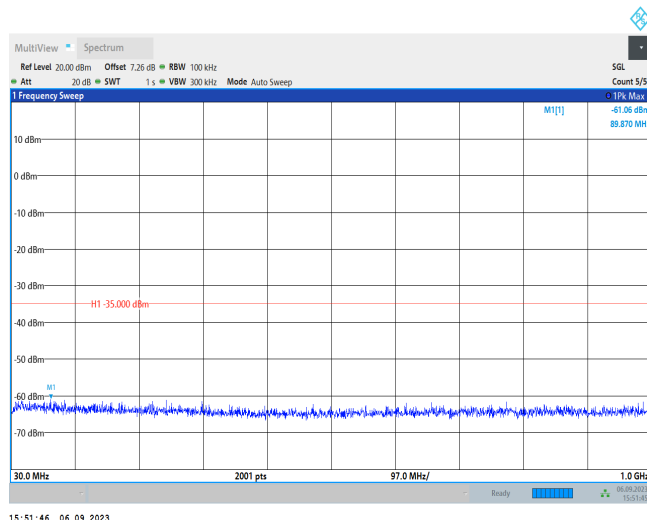
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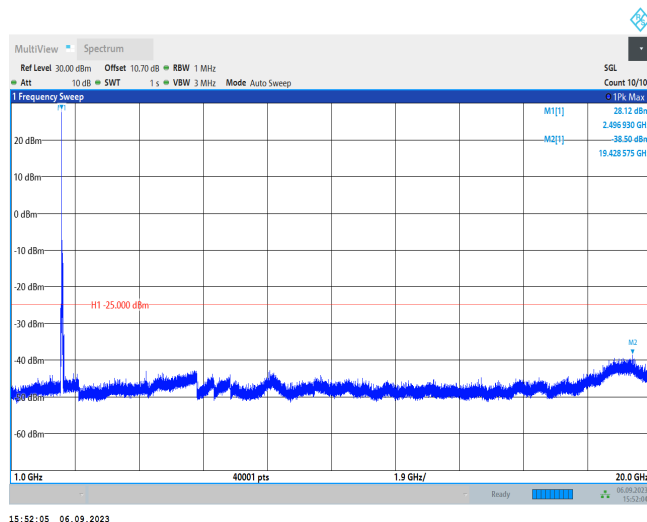
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Band41-20MHz-QPSK-39750-1RB#0-Range3:30~1000MHz



Band41-20MHz-QPSK-39750-1RB#0-Range4:1000~20000MHz



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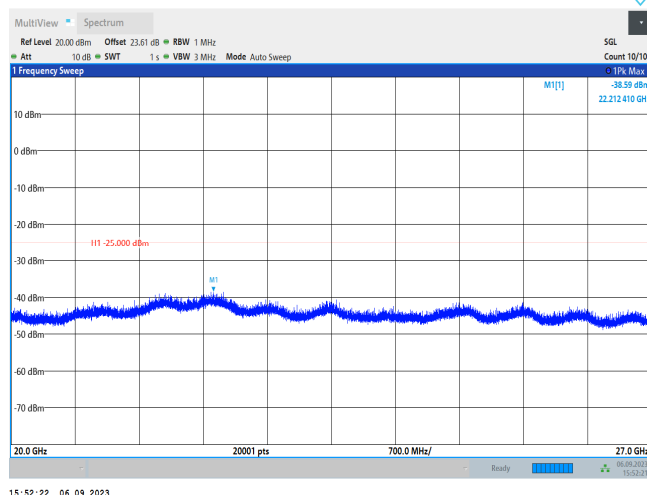
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Band41-20MHz-QPSK-39750-1RB#0-Range5:20000~27000MHz



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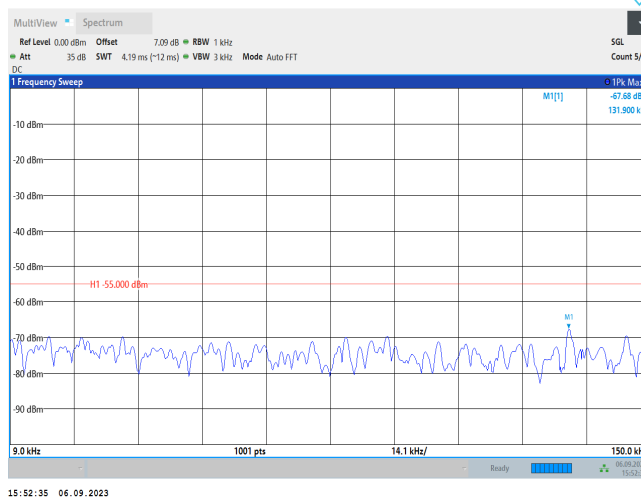
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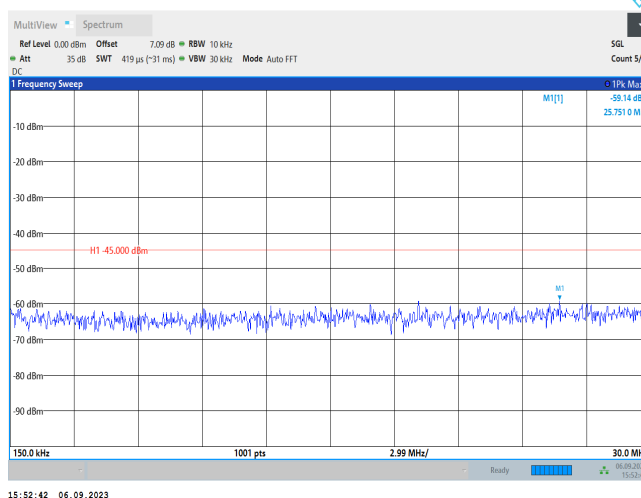
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Band41-20MHz-QPSK-40620-1RB#0-Range1:0.009~0.15MHz



Band41-20MHz-QPSK-40620-1RB#0-Range2:0.15~30MHz



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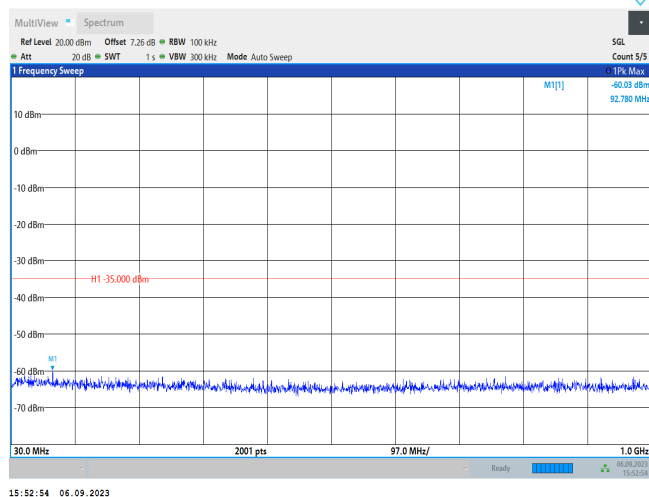
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Band41-20MHz-QPSK-40620-1RB#0-Range3:30~1000MHz



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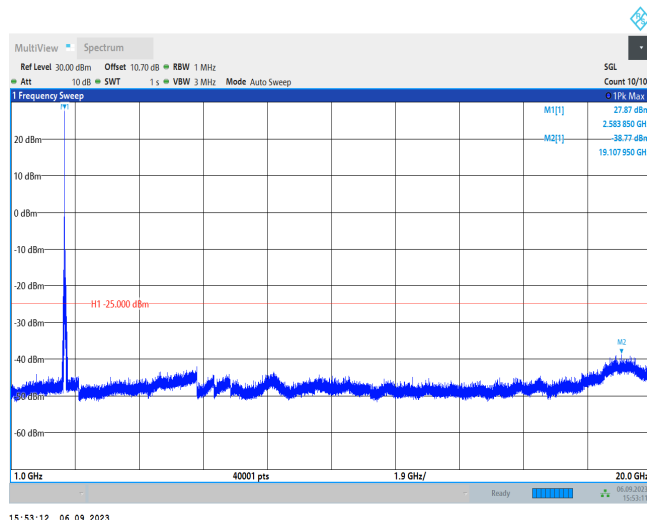
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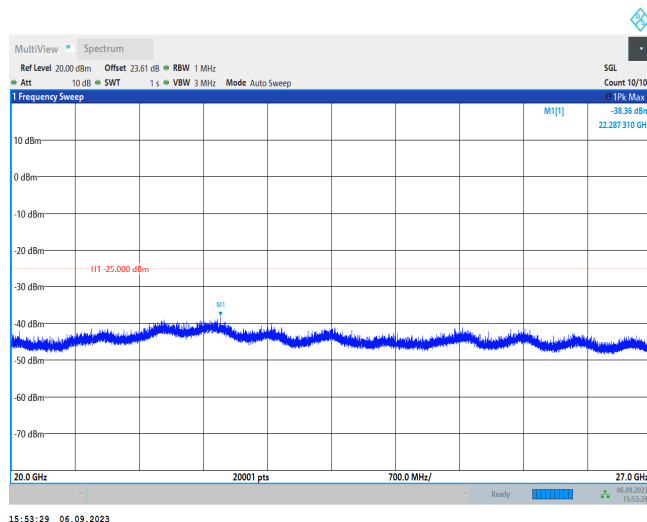
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Band41-20MHz-QPSK-40620-1RB#0-Range4:1000~20000MHz



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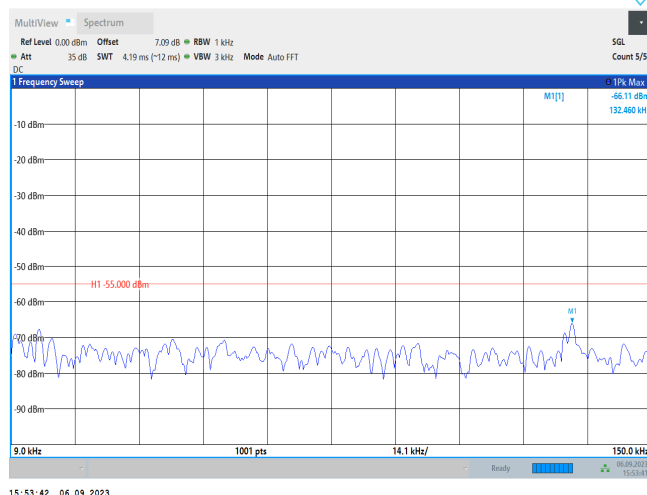
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Band41-20MHz-QPSK-41490-1RB#0-Range1:0.009~0.15MHz



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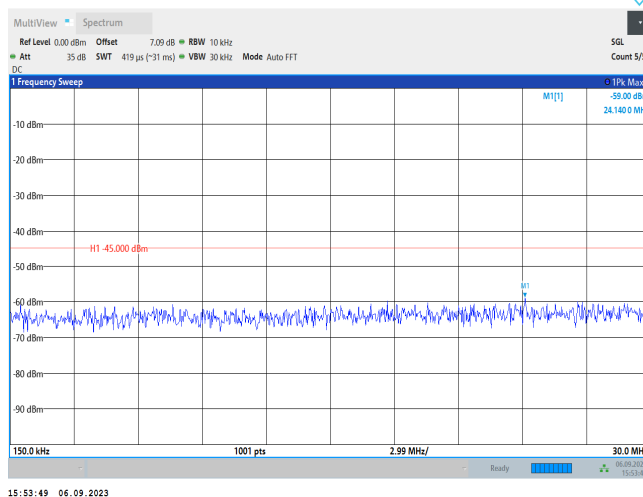
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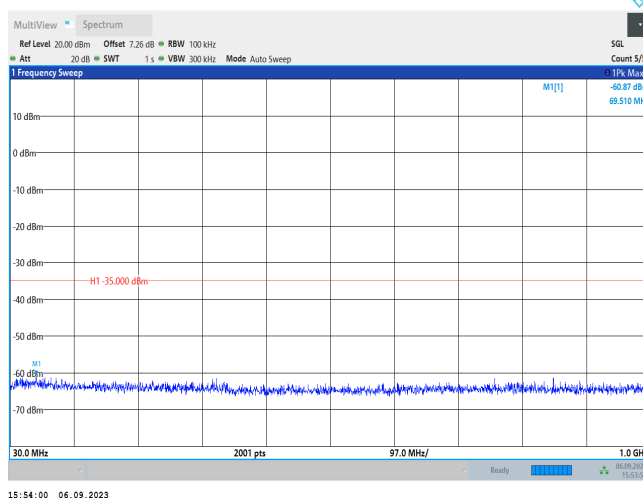
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Band41-20MHz-QPSK-41490-1RB#0-Range2:0.15~30MHz



Band41-20MHz-QPSK-41490-1RB#0-Range3:30~1000MHz



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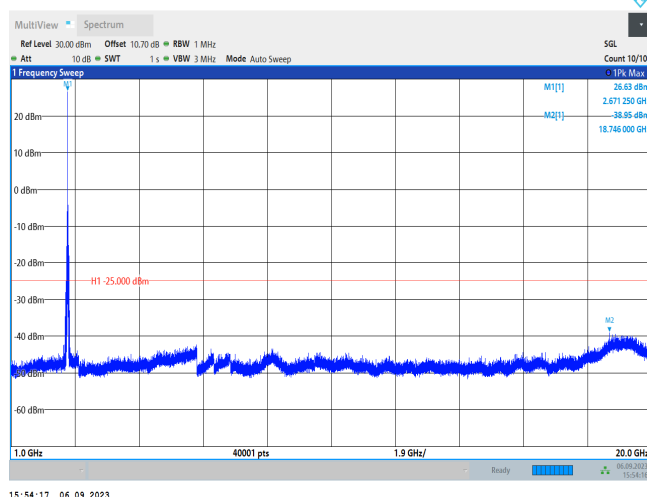
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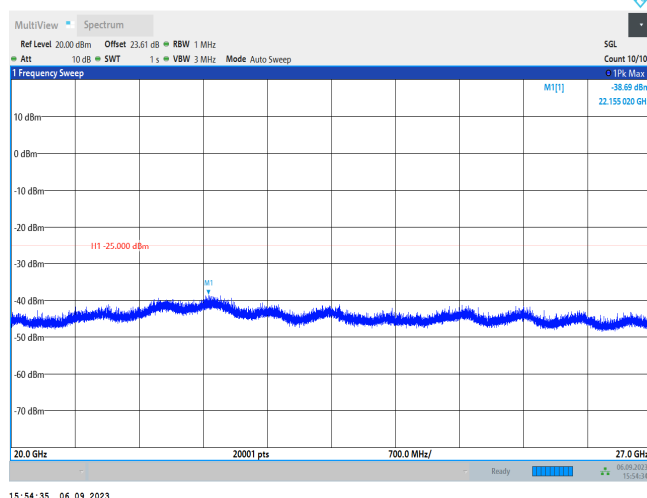
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Band41-20MHz-QPSK-41490-1RB#0-Range4:1000~20000MHz



Band41-20MHz-QPSK-41490-1RB#0-Range5:20000~27000MHz



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Field Strength of Spurious Radiation(SKU3):

Test Band = LTE Band 41_ TM1
Test Channel = Low Channel

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4994	78.43	-48.01	31.49	-33.36	-25.00	8.36	Horizontal
2	7491.27	44.52	-46.17	36.78	-60.13	-25.00	35.13	Horizontal
3	9988.36	38.50	-41.75	38.49	-60.02	-25.00	35.02	Horizontal
4	12485.45	37.17	-39.84	38.91	-59.02	-25.00	34.02	Horizontal
5	14982.54	35.09	-37.89	40.11	-57.95	-25.00	32.95	Horizontal
6	17479.63	34.47	-36.93	41.97	-55.75	-25.00	30.75	Horizontal

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4994	74.25	-48.01	31.49	-37.54	-25.00	12.54	Vertical
2	7491.27	44.23	-46.17	36.78	-60.42	-25.00	35.42	Vertical
3	9988.36	39.47	-41.75	38.49	-59.05	-25.00	34.05	Vertical
4	12485.45	36.86	-39.84	38.91	-59.33	-25.00	34.33	Vertical
5	14982.54	36.12	-37.89	40.11	-56.92	-25.00	31.92	Vertical
6	17479.63	33.73	-36.93	41.97	-56.49	-25.00	31.49	Vertical



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Test Band = LTE Band 41_ TM1

Test Channel = Mid Channel

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5168	72.36	-47.87	31.90	-38.86	-25.00	13.86	Horizontal
2	17913	36.62	-36.46	44.74	-50.36	-25.00	25.36	Horizontal
3	7752.27	45.96	-45.05	36.50	-57.86	-25.00	32.86	Horizontal
4	10336.36	38.39	-41.18	38.80	-59.25	-25.00	34.25	Horizontal
5	12920.45	36.69	-39.42	38.65	-59.34	-25.00	34.34	Horizontal
6	15504.54	35.65	-38.05	39.14	-58.52	-25.00	33.52	Horizontal

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5168	76.17	-47.87	31.90	-35.05	-25.00	10.05	Vertical
2	17974	36.51	-36.56	45.13	-50.17	-25.00	25.17	Vertical
3	7752.27	44.50	-45.05	36.50	-59.32	-25.00	34.32	Vertical
4	10336.36	39.62	-41.18	38.80	-58.02	-25.00	33.02	Vertical
5	12920.45	38.41	-39.42	38.65	-57.62	-25.00	32.62	Vertical
6	15504.54	36.60	-38.05	39.14	-57.57	-25.00	32.57	Vertical



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Test Band = LTE Band 41_ TM1

Test Channel = High Channel

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5342	72.56	-47.75	32.32	-38.13	-25.00	13.13	Horizontal
2	17885	36.02	-36.59	44.56	-51.26	-25.00	26.26	Horizontal
3	7882.77	42.36	-45.36	36.34	-61.92	-25.00	36.92	Horizontal
4	10510.36	38.06	-40.71	38.96	-58.95	-25.00	33.95	Horizontal
5	13137.95	36.86	-38.51	38.92	-58.00	-25.00	33.00	Horizontal
6	15765.54	34.98	-38.22	38.64	-59.86	-25.00	34.86	Horizontal

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5342	71.24	-47.75	32.32	-39.45	-25.00	14.45	Vertical
2	17966	36.66	-36.55	45.08	-50.06	-25.00	25.06	Vertical
3	7882.77	42.05	-45.36	36.34	-62.23	-25.00	37.23	Vertical
4	10510.36	38.86	-40.71	38.96	-58.15	-25.00	33.15	Vertical
5	13137.95	36.08	-38.51	38.92	-58.78	-25.00	33.78	Vertical
6	15765.54	35.45	-38.22	38.64	-59.39	-25.00	34.39	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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Test on the worst case(SKU4):

Test Band = LTE Band 41_ TM1

Test Channel = Low Channel

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4994	71.25	-48.01	31.49	-40.54	-25.00	15.54	Horizontal
2	7491.27	45.62	-46.17	36.78	-59.03	-25.00	34.03	Horizontal
3	9988.36	42.46	-41.75	38.49	-56.06	-25.00	31.06	Horizontal
4	12485.45	41.59	-39.84	38.91	-54.60	-25.00	29.60	Horizontal
5	14982.54	37.13	-37.89	40.11	-55.91	-25.00	30.91	Horizontal
6	17479.63	34.48	-36.93	41.97	-55.74	-25.00	30.74	Horizontal

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4994	71.60	-48.01	31.49	-40.19	-25.00	15.19	Vertical
2	7491.27	46.81	-46.17	36.78	-57.84	-25.00	32.84	Vertical
3	9988.36	44.35	-41.75	38.49	-54.17	-25.00	29.17	Vertical
4	12485.45	40.19	-39.84	38.91	-56.00	-25.00	31.00	Vertical
5	14982.54	35.52	-37.89	40.11	-57.52	-25.00	32.52	Vertical
6	17479.63	33.71	-36.93	41.97	-56.51	-25.00	31.51	Vertical



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Test Band = LTE Band 41_ TM1

Test Channel = Mid Channel

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5168	73.31	-47.87	31.90	-37.91	-25.00	12.91	Horizontal
2	15504.5	40.04	-38.05	39.14	-54.13	-25.00	29.13	Horizontal
3	17976.5	36.71	-36.56	45.15	-49.96	-25.00	24.96	Horizontal
4	7752.27	48.22	-45.05	36.50	-55.60	-25.00	30.60	Horizontal
5	10336.36	42.66	-41.18	38.80	-54.98	-25.00	29.98	Horizontal
6	12920.45	40.91	-39.42	38.65	-55.12	-25.00	30.12	Horizontal

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5168	76.83	-47.87	31.90	-34.39	-25.00	9.39	Vertical
2	17910	36.93	-36.46	44.72	-50.06	-25.00	25.06	Vertical
3	7752.27	48.40	-45.05	36.50	-55.42	-25.00	30.42	Vertical
4	10336.36	43.51	-41.18	38.80	-54.13	-25.00	29.13	Vertical
5	12920.45	43.24	-39.42	38.65	-52.79	-25.00	27.79	Vertical
6	15504.54	42.79	-38.05	39.14	-51.38	-25.00	26.38	Vertical



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Test Band = LTE Band 41_ TM1**Test Channel = High Channel**

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5341.5	72.44	-47.76	32.32	-38.26	-25.00	13.26	Horizontal
2	17910.5	37.14	-36.46	44.73	-49.85	-25.00	24.85	Horizontal
3	7882.77	43.48	-45.36	36.34	-60.80	-25.00	35.80	Horizontal
4	10510.36	38.02	-40.71	38.96	-58.99	-25.00	33.99	Horizontal
5	13137.95	37.75	-38.51	38.92	-57.11	-25.00	32.11	Horizontal
6	15765.54	34.96	-38.22	38.64	-59.88	-25.00	34.88	Horizontal

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5342	74.05	-47.75	32.32	-36.64	-25.00	11.64	Vertical
2	17967.5	36.72	-36.55	45.09	-50.00	-25.00	25.00	Vertical
3	7882.77	42.09	-45.36	36.34	-62.19	-25.00	37.19	Vertical
4	10510.36	38.61	-40.71	38.96	-58.40	-25.00	33.40	Vertical
5	13137.95	36.56	-38.51	38.92	-58.30	-25.00	33.30	Vertical
6	15765.54	35.37	-38.22	38.64	-59.47	-25.00	34.47	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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Test on the worst case(SKU6):**Test Band = LTE Band 41_ TM1****Test Channel = Low Channel**

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4994	75.74	-48.01	31.49	-36.05	-25.00	11.05	Horizontal
2	9988	45.13	-41.75	38.49	-53.39	-25.00	28.39	Horizontal
3	14982.5	39.61	-37.89	40.11	-53.43	-25.00	28.43	Horizontal
4	7491.27	57.89	-46.17	36.78	-46.76	-25.00	21.76	Horizontal
5	12485.45	40.79	-39.84	38.91	-55.40	-25.00	30.40	Horizontal
6	17479.63	34.87	-36.93	41.97	-55.35	-25.00	30.35	Horizontal

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4994	75.62	-48.01	31.49	-36.17	-25.00	11.17	Vertical
2	14982.5	44.86	-37.89	40.11	-48.18	-25.00	23.18	Vertical
3	7491.27	48.82	-46.17	36.78	-55.83	-25.00	30.83	Vertical
4	9988.36	44.79	-41.75	38.49	-53.73	-25.00	28.73	Vertical
5	12485.45	42.95	-39.84	38.91	-53.24	-25.00	28.24	Vertical
6	17479.63	35.88	-36.93	41.97	-54.34	-25.00	29.34	Vertical



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Test Band = LTE Band 41_ TM1
Test Channel = Mid Channel

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5168	73.62	-47.87	31.90	-37.60	-25.00	12.60	Horizontal
2	15504.5	41.75	-38.05	39.14	-52.42	-25.00	27.42	Horizontal
3	17976	36.63	-36.56	45.15	-50.05	-25.00	25.05	Horizontal
4	7752.27	51.82	-45.05	36.50	-52.00	-25.00	27.00	Horizontal
5	10336.36	42.82	-41.18	38.80	-54.82	-25.00	29.82	Horizontal
6	12920.45	44.47	-39.42	38.65	-51.56	-25.00	26.56	Horizontal

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5168	74.10	-47.87	31.90	-37.12	-25.00	12.12	Vertical
2	15504	43.26	-38.05	39.14	-50.91	-25.00	25.91	Vertical
3	17979	36.97	-36.57	45.17	-49.69	-25.00	24.69	Vertical
4	7752.27	52.39	-45.05	36.50	-51.43	-25.00	26.43	Vertical
5	10336.36	44.69	-41.18	38.80	-52.95	-25.00	27.95	Vertical
6	12920.45	44.94	-39.42	38.65	-51.09	-25.00	26.09	Vertical



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Test Band = LTE Band 41_ TM1**Test Channel = High Channel**

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5342	73.23	-47.75	32.32	-37.46	-25.00	12.46	Horizontal
2	8013	50.97	-44.36	36.22	-52.43	-25.00	27.43	Horizontal
3	10684.5	45.97	-41.05	39.12	-51.22	-25.00	26.22	Horizontal
4	13355.5	42.13	-39.13	39.42	-52.85	-25.00	27.85	Horizontal
5	16026.5	39.67	-37.95	38.22	-55.32	-25.00	30.32	Horizontal
6	17978	36.38	-36.56	45.16	-50.29	-25.00	25.29	Horizontal

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5342	73.08	-47.75	32.32	-37.61	-25.00	12.61	Vertical
2	8013	46.10	-44.36	36.22	-57.30	-25.00	32.30	Vertical
3	10684.5	48.86	-41.05	39.12	-48.33	-25.00	23.33	Vertical
4	13355.5	43.77	-39.13	39.42	-51.21	-25.00	26.21	Vertical
5	16026	41.60	-37.95	38.22	-53.39	-25.00	28.39	Vertical
6	17917	36.78	-36.47	44.77	-50.18	-25.00	25.18	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

Voltage									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band41	20MHz	QPSK	40620	100RB#0	VL	NT	-11.64	-0.004489	PASS
Band41	20MHz	QPSK	40620	100RB#0	VN	NT	-5.59	-0.002156	PASS
Band41	20MHz	QPSK	40620	100RB#0	VH	NT	-10.27	-0.003961	PASS

Temperature									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band41	20MHz	QPSK	40620	100RB#0	NV	-30	-7.80	-0.003008	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-20	-7.15	-0.002757	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-10	-10.01	-0.003860	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	0	-11.43	-0.004408	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	10	-7.68	-0.002962	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	20	-14.96	-0.005769	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	30	-9.76	-0.003764	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	40	-7.35	-0.002835	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	50	-9.24	-0.003563	PASS

---End of Attachment---



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