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Appendix B.4

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	23.71	23.42	33	PASS
Band41	5MHz	QPSK	39675	1RB#12	23.59	23.3	33	PASS
Band41	5MHz	QPSK	39675	1RB#24	23.72	23.43	33	PASS
Band41	5MHz	QPSK	39675	25RB#0	23.24	22.95	33	PASS
Band41	5MHz	QPSK	40620	1RB#0	23.58	23.29	33	PASS
Band41	5MHz	QPSK	40620	1RB#12	23.59	23.3	33	PASS
Band41	5MHz	QPSK	40620	1RB#24	23.58	23.29	33	PASS
Band41	5MHz	QPSK	40620	25RB#0	23.16	22.87	33	PASS
Band41	5MHz	QPSK	41565	1RB#0	23.53	23.24	33	PASS
Band41	5MHz	QPSK	41565	1RB#12	23.56	23.27	33	PASS
Band41	5MHz	QPSK	41565	1RB#24	23.61	23.32	33	PASS
Band41	5MHz	QPSK	41565	25RB#0	23.16	22.87	33	PASS
Band41	5MHz	16QAM	39675	1RB#0	23.42	23.13	33	PASS
Band41	5MHz	16QAM	39675	1RB#12	23.56	23.27	33	PASS
Band41	5MHz	16QAM	39675	1RB#24	23.41	23.12	33	PASS
Band41	5MHz	16QAM	39675	25RB#0	22.32	22.03	33	PASS
Band41	5MHz	16QAM	40620	1RB#0	23.44	23.15	33	PASS
Band41	5MHz	16QAM	40620	1RB#12	23.31	23.02	33	PASS
Band41	5MHz	16QAM	40620	1RB#24	23.44	23.15	33	PASS
Band41	5MHz	16QAM	40620	25RB#0	22.24	21.95	33	PASS
Band41	5MHz	16QAM	41565	1RB#0	23.22	22.93	33	PASS
Band41	5MHz	16QAM	41565	1RB#12	23.23	22.94	33	PASS
Band41	5MHz	16QAM	41565	1RB#24	23.28	22.99	33	PASS
Band41	5MHz	16QAM	41565	25RB#0	22.23	21.94	33	PASS
Band41	5MHz	64QAM	39675	1RB#0	22.29	22	33	PASS
Band41	5MHz	64QAM	39675	1RB#12	22.24	21.95	33	PASS
Band41	5MHz	64QAM	39675	1RB#24	22.29	22	33	PASS
Band41	5MHz	64QAM	39675	25RB#0	21.39	21.1	33	PASS



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Band41	5MHz	64QAM	40620	1RB#0	22.18	21.89	33	PASS
Band41	5MHz	64QAM	40620	1RB#12	22.17	21.88	33	PASS
Band41	5MHz	64QAM	40620	1RB#24	22.20	21.91	33	PASS
Band41	5MHz	64QAM	40620	25RB#0	21.35	21.06	33	PASS
Band41	5MHz	64QAM	41565	1RB#0	22.11	21.82	33	PASS
Band41	5MHz	64QAM	41565	1RB#12	22.15	21.86	33	PASS
Band41	5MHz	64QAM	41565	1RB#24	22.18	21.89	33	PASS
Band41	5MHz	64QAM	41565	25RB#0	21.28	20.99	33	PASS
Band41	10MHz	QPSK	39700	1RB#0	23.67	23.38	33	PASS
Band41	10MHz	QPSK	39700	1RB#24	23.70	23.41	33	PASS
Band41	10MHz	QPSK	39700	1RB#49	23.70	23.41	33	PASS
Band41	10MHz	QPSK	39700	50RB#0	23.26	22.97	33	PASS
Band41	10MHz	QPSK	40620	1RB#0	23.63	23.34	33	PASS
Band41	10MHz	QPSK	40620	1RB#24	23.61	23.32	33	PASS
Band41	10MHz	QPSK	40620	1RB#49	23.52	23.23	33	PASS
Band41	10MHz	QPSK	40620	50RB#0	23.24	22.95	33	PASS
Band41	10MHz	QPSK	41540	1RB#0	23.58	23.29	33	PASS
Band41	10MHz	QPSK	41540	1RB#24	23.61	23.32	33	PASS
Band41	10MHz	QPSK	41540	1RB#49	23.51	23.22	33	PASS
Band41	10MHz	QPSK	41540	50RB#0	23.21	22.92	33	PASS
Band41	10MHz	16QAM	39700	1RB#0	23.50	23.21	33	PASS
Band41	10MHz	16QAM	39700	1RB#24	23.47	23.18	33	PASS
Band41	10MHz	16QAM	39700	1RB#49	23.48	23.19	33	PASS
Band41	10MHz	16QAM	39700	50RB#0	22.29	22	33	PASS
Band41	10MHz	16QAM	40620	1RB#0	23.45	23.16	33	PASS
Band41	10MHz	16QAM	40620	1RB#24	23.34	23.05	33	PASS
Band41	10MHz	16QAM	40620	1RB#49	23.31	23.02	33	PASS
Band41	10MHz	16QAM	40620	50RB#0	22.31	22.02	33	PASS
Band41	10MHz	16QAM	41540	1RB#0	23.35	23.06	33	PASS
Band41	10MHz	16QAM	41540	1RB#24	23.27	22.98	33	PASS
Band41	10MHz	16QAM	41540	1RB#49	23.29	23	33	PASS
Band41	10MHz	16QAM	41540	50RB#0	22.25	21.96	33	PASS
Band41	10MHz	64QAM	39700	1RB#0	22.39	22.1	33	PASS



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Band41	10MHz	64QAM	39700	1RB#24	22.44	22.15	33	PASS
Band41	10MHz	64QAM	39700	1RB#49	22.38	22.09	33	PASS
Band41	10MHz	64QAM	39700	50RB#0	21.34	21.05	33	PASS
Band41	10MHz	64QAM	40620	1RB#0	22.35	22.06	33	PASS
Band41	10MHz	64QAM	40620	1RB#24	22.29	22	33	PASS
Band41	10MHz	64QAM	40620	1RB#49	22.12	21.83	33	PASS
Band41	10MHz	64QAM	40620	50RB#0	21.28	20.99	33	PASS
Band41	10MHz	64QAM	41540	1RB#0	22.27	21.98	33	PASS
Band41	10MHz	64QAM	41540	1RB#24	22.13	21.84	33	PASS
Band41	10MHz	64QAM	41540	1RB#49	22.15	21.86	33	PASS
Band41	10MHz	64QAM	41540	50RB#0	21.24	20.95	33	PASS
Band41	15MHz	QPSK	39725	1RB#0	23.41	23.12	33	PASS
Band41	15MHz	QPSK	39725	1RB#38	23.45	23.16	33	PASS
Band41	15MHz	QPSK	39725	1RB#74	23.52	23.23	33	PASS
Band41	15MHz	QPSK	39725	75RB#0	23.20	22.91	33	PASS
Band41	15MHz	QPSK	40620	1RB#0	23.45	23.16	33	PASS
Band41	15MHz	QPSK	40620	1RB#38	23.37	23.08	33	PASS
Band41	15MHz	QPSK	40620	1RB#74	23.30	23.01	33	PASS
Band41	15MHz	QPSK	40620	75RB#0	23.05	22.76	33	PASS
Band41	15MHz	QPSK	41515	1RB#0	23.38	23.09	33	PASS
Band41	15MHz	QPSK	41515	1RB#38	23.27	22.98	33	PASS
Band41	15MHz	QPSK	41515	1RB#74	23.38	23.09	33	PASS
Band41	15MHz	QPSK	41515	75RB#0	23.08	22.79	33	PASS
Band41	15MHz	16QAM	39725	1RB#0	23.26	22.97	33	PASS
Band41	15MHz	16QAM	39725	1RB#38	23.31	23.02	33	PASS
Band41	15MHz	16QAM	39725	1RB#74	23.33	23.04	33	PASS
Band41	15MHz	16QAM	39725	75RB#0	22.26	21.97	33	PASS
Band41	15MHz	16QAM	40620	1RB#0	23.28	22.99	33	PASS
Band41	15MHz	16QAM	40620	1RB#38	23.21	22.92	33	PASS
Band41	15MHz	16QAM	40620	1RB#74	23.16	22.87	33	PASS
Band41	15MHz	16QAM	40620	75RB#0	22.10	21.81	33	PASS
Band41	15MHz	16QAM	41515	1RB#0	23.26	22.97	33	PASS
Band41	15MHz	16QAM	41515	1RB#38	23.20	22.91	33	PASS



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Band41	15MHz	16QAM	41515	1RB#74	23.21	22.92	33	PASS
Band41	15MHz	16QAM	41515	75RB#0	22.10	21.81	33	PASS
Band41	15MHz	64QAM	39725	1RB#0	21.99	21.7	33	PASS
Band41	15MHz	64QAM	39725	1RB#38	22.04	21.75	33	PASS
Band41	15MHz	64QAM	39725	1RB#74	22.00	21.71	33	PASS
Band41	15MHz	64QAM	39725	75RB#0	21.28	20.99	33	PASS
Band41	15MHz	64QAM	40620	1RB#0	21.99	21.7	33	PASS
Band41	15MHz	64QAM	40620	1RB#38	21.86	21.57	33	PASS
Band41	15MHz	64QAM	40620	1RB#74	21.82	21.53	33	PASS
Band41	15MHz	64QAM	40620	75RB#0	21.13	20.84	33	PASS
Band41	15MHz	64QAM	41515	1RB#0	21.95	21.66	33	PASS
Band41	15MHz	64QAM	41515	1RB#38	21.90	21.61	33	PASS
Band41	15MHz	64QAM	41515	1RB#74	21.91	21.62	33	PASS
Band41	15MHz	64QAM	41515	75RB#0	21.12	20.83	33	PASS
Band41	20MHz	QPSK	39750	1RB#0	23.38	23.09	33	PASS
Band41	20MHz	QPSK	39750	1RB#49	23.47	23.18	33	PASS
Band41	20MHz	QPSK	39750	1RB#99	23.44	23.15	33	PASS
Band41	20MHz	QPSK	39750	100RB#0	23.13	22.84	33	PASS
Band41	20MHz	QPSK	40620	1RB#0	23.44	23.15	33	PASS
Band41	20MHz	QPSK	40620	1RB#49	23.32	23.03	33	PASS
Band41	20MHz	QPSK	40620	1RB#99	23.29	23	33	PASS
Band41	20MHz	QPSK	40620	100RB#0	22.99	22.7	33	PASS
Band41	20MHz	QPSK	41490	1RB#0	23.39	23.1	33	PASS
Band41	20MHz	QPSK	41490	1RB#49	23.31	23.02	33	PASS
Band41	20MHz	QPSK	41490	1RB#99	23.33	23.04	33	PASS
Band41	20MHz	QPSK	41490	100RB#0	23.04	22.75	33	PASS
Band41	20MHz	16QAM	39750	1RB#0	23.21	22.92	33	PASS
Band41	20MHz	16QAM	39750	1RB#49	23.34	23.05	33	PASS
Band41	20MHz	16QAM	39750	1RB#99	23.31	23.02	33	PASS
Band41	20MHz	16QAM	39750	100RB#0	22.17	21.88	33	PASS
Band41	20MHz	16QAM	40620	1RB#0	23.31	23.02	33	PASS
Band41	20MHz	16QAM	40620	1RB#49	23.20	22.91	33	PASS
Band41	20MHz	16QAM	40620	1RB#99	23.14	22.85	33	PASS



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Band41	20MHz	16QAM	40620	100RB#0	22.07	21.78	33	PASS
Band41	20MHz	16QAM	41490	1RB#0	23.27	22.98	33	PASS
Band41	20MHz	16QAM	41490	1RB#49	23.17	22.88	33	PASS
Band41	20MHz	16QAM	41490	1RB#99	23.18	22.89	33	PASS
Band41	20MHz	16QAM	41490	100RB#0	22.12	21.83	33	PASS
Band41	20MHz	64QAM	39750	1RB#0	21.99	21.7	33	PASS
Band41	20MHz	64QAM	39750	1RB#49	22.02	21.73	33	PASS
Band41	20MHz	64QAM	39750	1RB#99	22.01	21.72	33	PASS
Band41	20MHz	64QAM	39750	100RB#0	21.18	20.89	33	PASS
Band41	20MHz	64QAM	40620	1RB#0	22.03	21.74	33	PASS
Band41	20MHz	64QAM	40620	1RB#49	21.89	21.6	33	PASS
Band41	20MHz	64QAM	40620	1RB#99	21.78	21.49	33	PASS
Band41	20MHz	64QAM	40620	100RB#0	21.04	20.75	33	PASS
Band41	20MHz	64QAM	41490	1RB#0	22.04	21.75	33	PASS
Band41	20MHz	64QAM	41490	1RB#49	22.14	21.85	33	PASS
Band41	20MHz	64QAM	41490	1RB#99	21.96	21.67	33	PASS
Band41	20MHz	64QAM	41490	100RB#0	21.10	20.81	33	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	9.14	13	PASS
Band41	20MHz	QPSK	40620	100RB#0	8.94	13	PASS
Band41	20MHz	QPSK	41490	100RB#0	8.56	13	PASS
Band41	20MHz	16QAM	39750	100RB#0	9.42	13	PASS
Band41	20MHz	16QAM	40620	100RB#0	9.60	13	PASS
Band41	20MHz	16QAM	41490	100RB#0	9.54	13	PASS
Band41	20MHz	64QAM	39750	100RB#0	10.10	13	PASS
Band41	20MHz	64QAM	40620	100RB#0	10.26	13	PASS
Band41	20MHz	64QAM	41490	100RB#0	10.14	13	PASS



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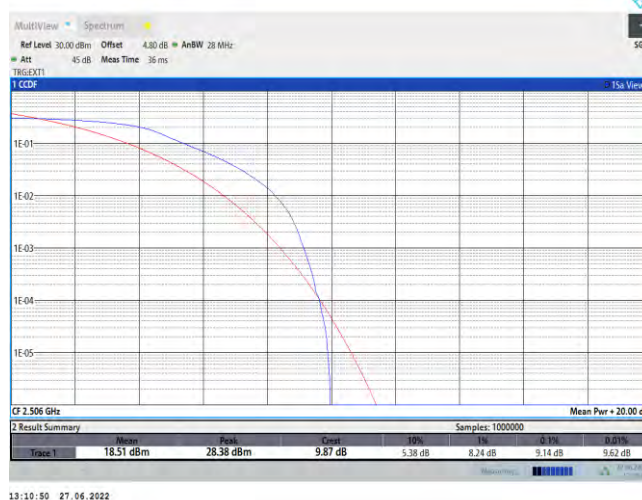
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Test Graphs

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



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



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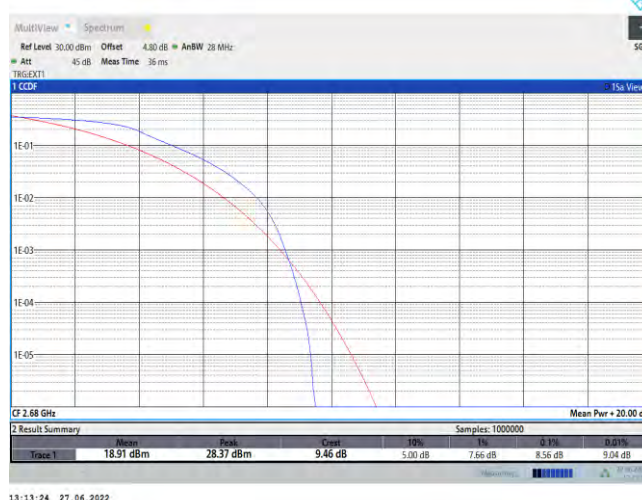
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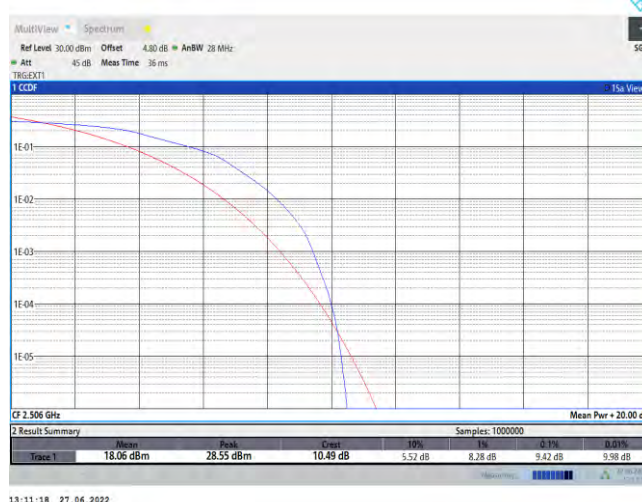
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Band41-20MHz-QPSK-41490-100RB#0



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



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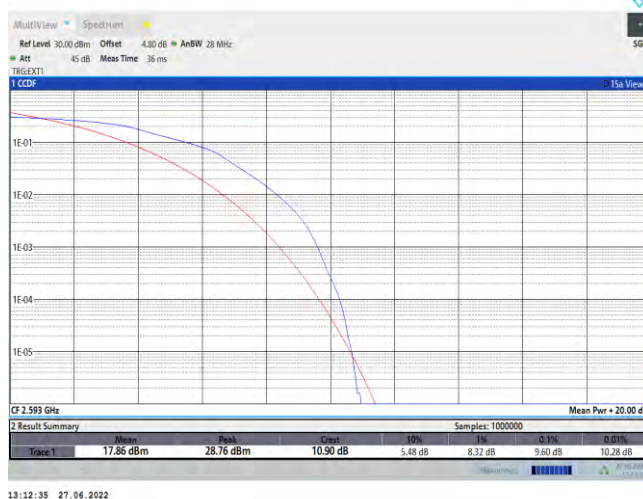
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Band41-20MHz-16QAM-40620-100RB#0



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



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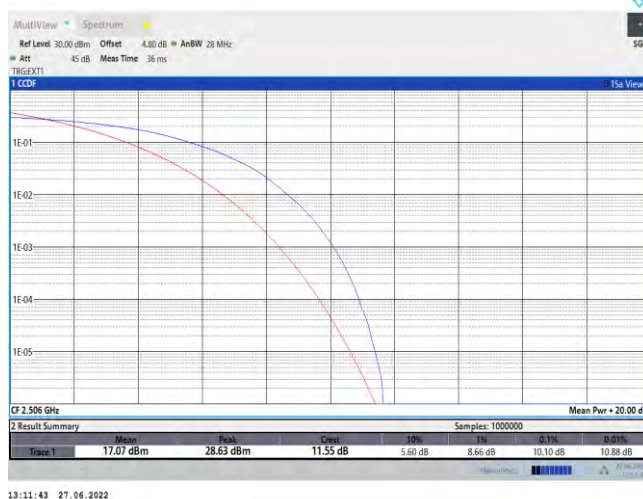
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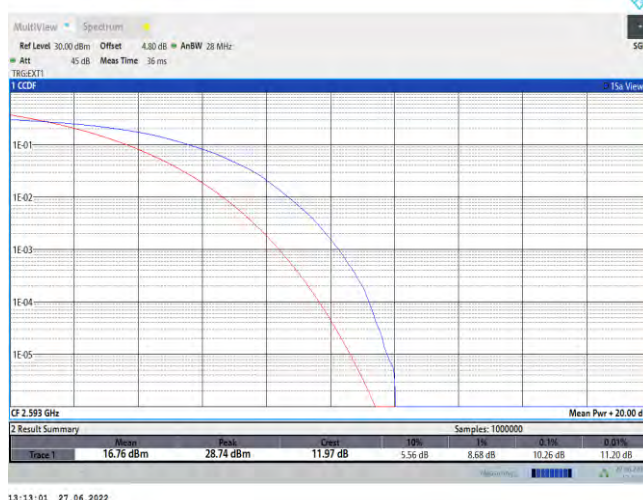
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Band41-20MHz-64QAM-39750-100RB#0



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



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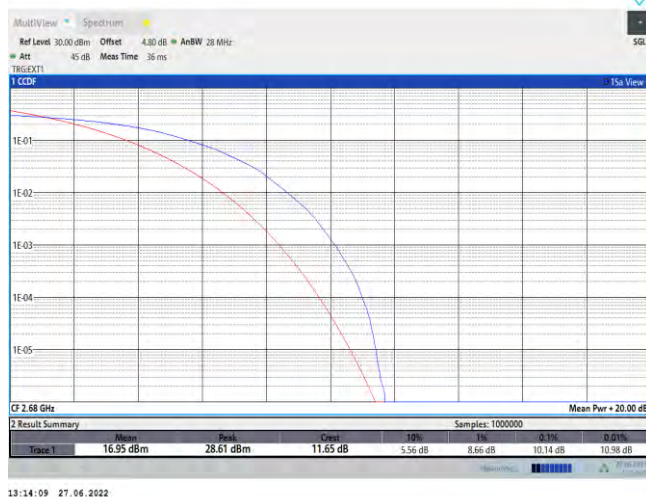
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Band41-20MHz-64QAM-41490-100RB#0



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Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band41	20MHz	QPSK	40620	100RB#0	PASS	PASS
Band41	20MHz	16QAM	40620	100RB#0	PASS	PASS
Band41	20MHz	64QAM	40620	100RB#0	PASS	PASS



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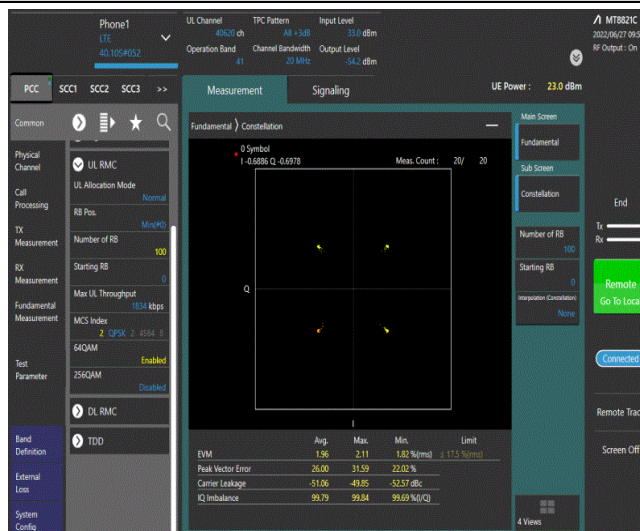
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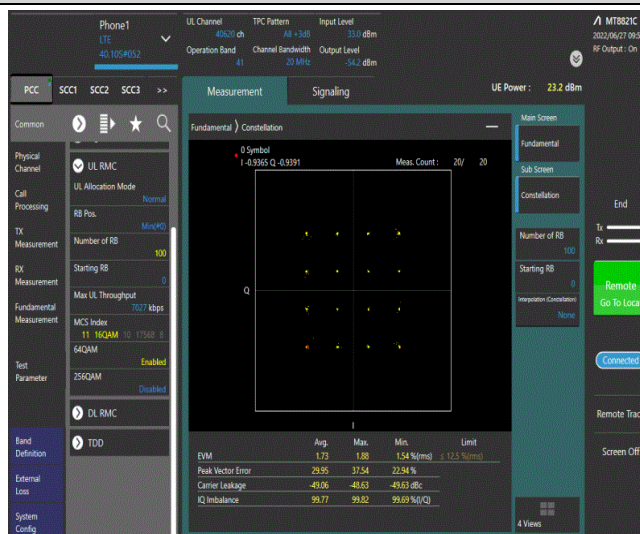
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Test Graphs

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



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



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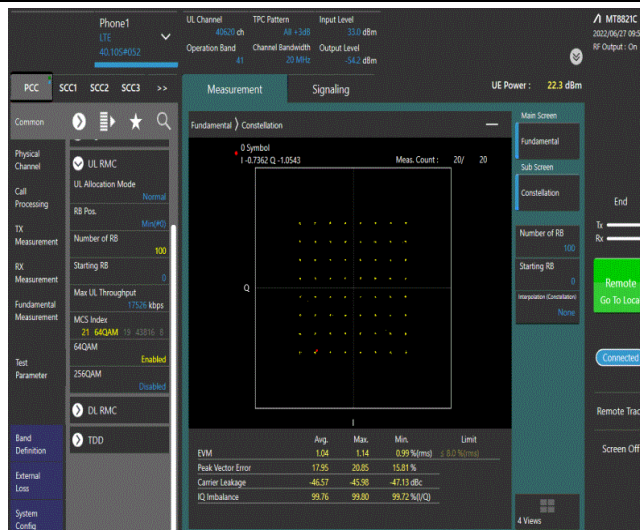
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Band41-20MHz-64QAM-40620-100RB#0



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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	4.479	4.86	PASS
Band41	5MHz	QPSK	40620	25RB#0	4.479	4.88	PASS
Band41	5MHz	QPSK	41565	25RB#0	4.477	4.87	PASS
Band41	5MHz	16QAM	39675	25RB#0	4.471	4.97	PASS
Band41	5MHz	16QAM	40620	25RB#0	4.467	4.96	PASS
Band41	5MHz	16QAM	41565	25RB#0	4.471	4.99	PASS
Band41	5MHz	64QAM	39675	25RB#0	4.476	4.84	PASS
Band41	5MHz	64QAM	40620	25RB#0	4.479	4.84	PASS
Band41	5MHz	64QAM	41565	25RB#0	4.483	4.83	PASS
Band41	10MHz	QPSK	39700	50RB#0	8.928	9.68	PASS
Band41	10MHz	QPSK	40620	50RB#0	8.924	9.80	PASS
Band41	10MHz	QPSK	41540	50RB#0	8.929	9.80	PASS
Band41	10MHz	16QAM	39700	50RB#0	8.932	9.68	PASS
Band41	10MHz	16QAM	40620	50RB#0	8.930	9.56	PASS
Band41	10MHz	16QAM	41540	50RB#0	8.930	9.78	PASS
Band41	10MHz	64QAM	39700	50RB#0	8.937	9.74	PASS
Band41	10MHz	64QAM	40620	50RB#0	8.928	9.62	PASS
Band41	10MHz	64QAM	41540	50RB#0	8.932	9.66	PASS
Band41	15MHz	QPSK	39725	75RB#0	13.496	16.26	PASS
Band41	15MHz	QPSK	40620	75RB#0	13.503	16.59	PASS
Band41	15MHz	QPSK	41515	75RB#0	13.500	16.59	PASS
Band41	15MHz	16QAM	39725	75RB#0	13.463	14.76	PASS
Band41	15MHz	16QAM	40620	75RB#0	13.444	15.06	PASS
Band41	15MHz	16QAM	41515	75RB#0	13.448	14.91	PASS
Band41	15MHz	64QAM	39725	75RB#0	13.434	15.09	PASS
Band41	15MHz	64QAM	40620	75RB#0	13.439	15.45	PASS
Band41	15MHz	64QAM	41515	75RB#0	13.434	14.94	PASS
Band41	20MHz	QPSK	39750	100RB#0	17.927	19.60	PASS
Band41	20MHz	QPSK	40620	100RB#0	17.933	20.32	PASS
Band41	20MHz	QPSK	41490	100RB#0	17.933	20.08	PASS



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Band41	20MHz	16QAM	40620	100RB#0	17.907	19.76	PASS
Band41	20MHz	16QAM	41490	100RB#0	17.908	19.88	PASS
Band41	20MHz	64QAM	39750	100RB#0	17.881	19.84	PASS
Band41	20MHz	64QAM	40620	100RB#0	17.881	20.68	PASS
Band41	20MHz	64QAM	41490	100RB#0	17.892	20.56	PASS



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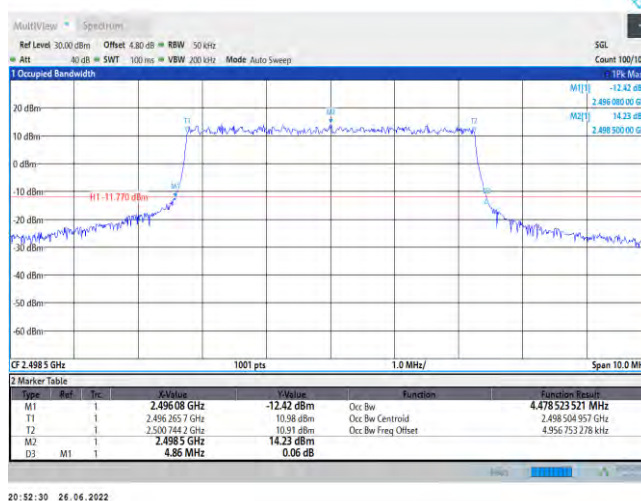
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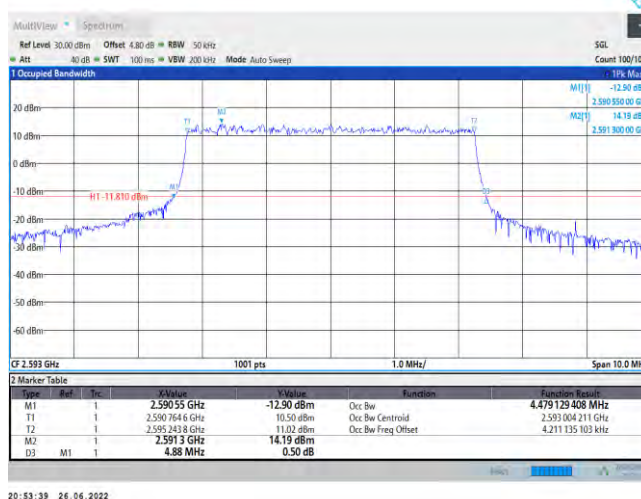
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Test Graphs

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



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



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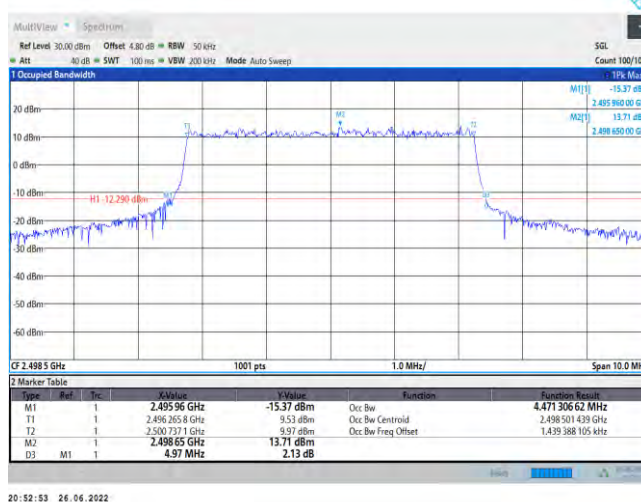
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20:54:49 26.06.2022

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



20:52:53 26.06.2022



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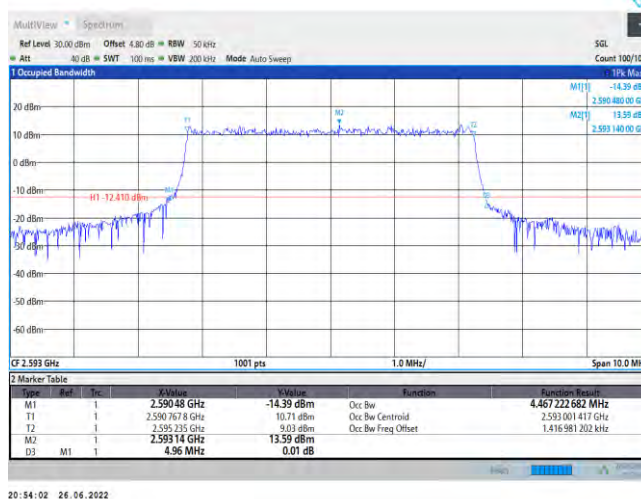
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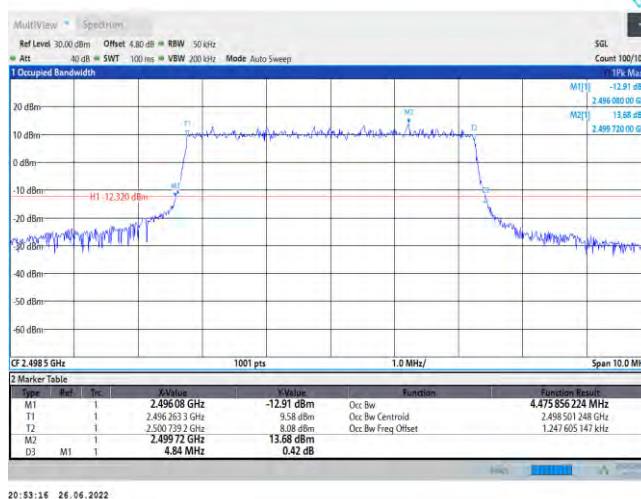
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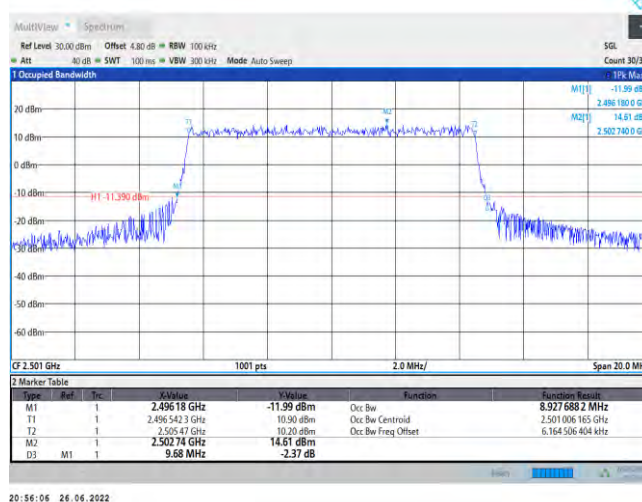
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Band41-10MHz-QPSK-39700-50RB#0



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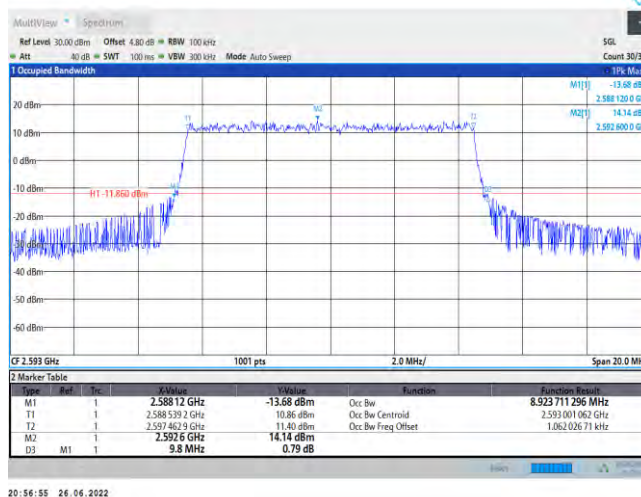
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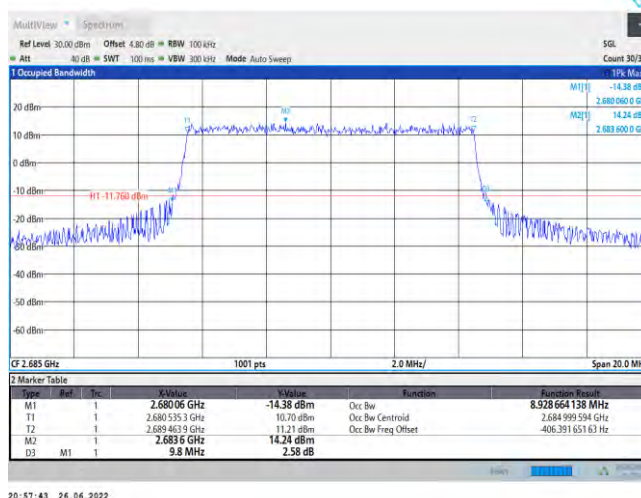
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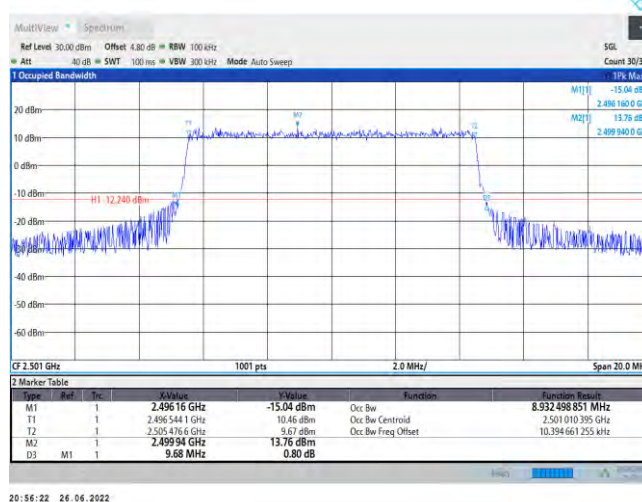
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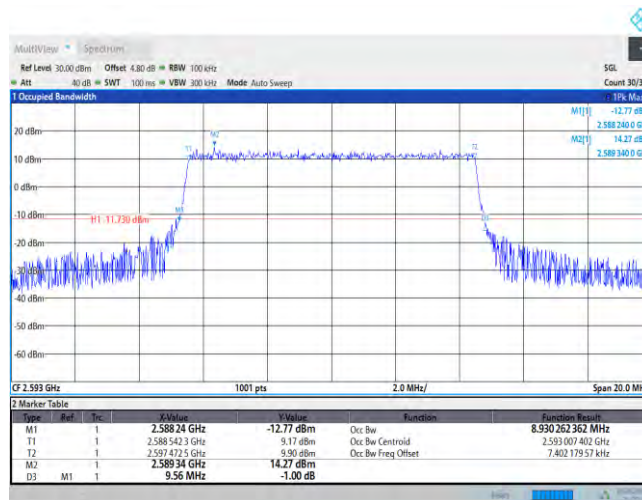
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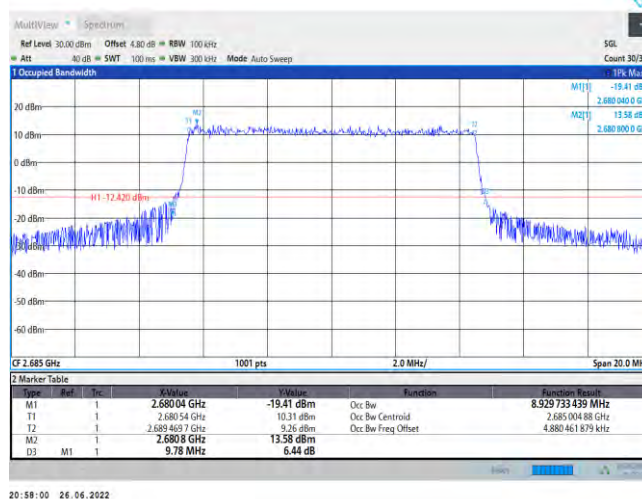
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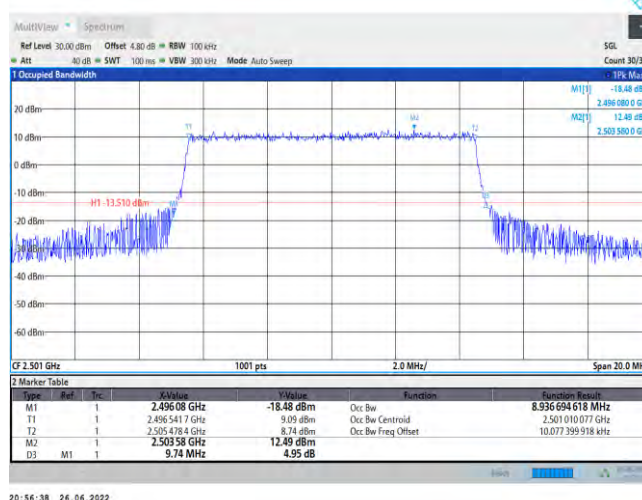
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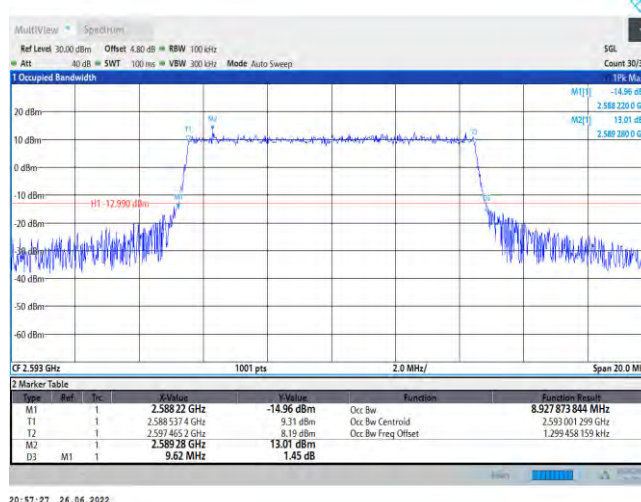
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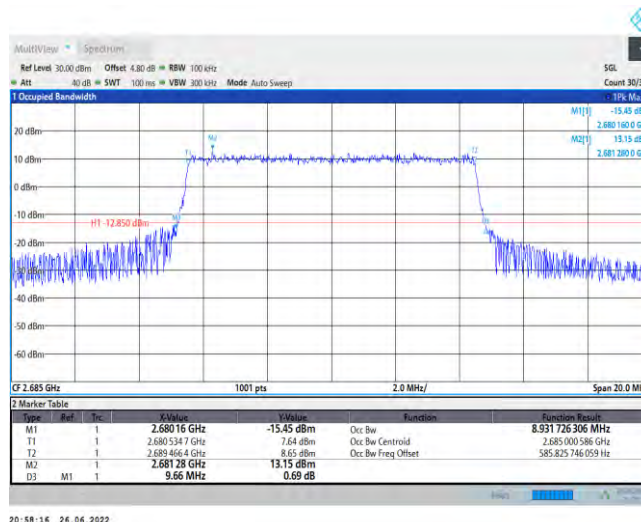
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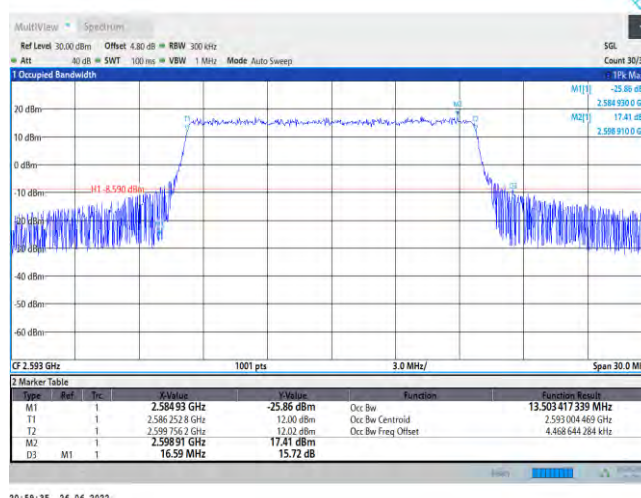
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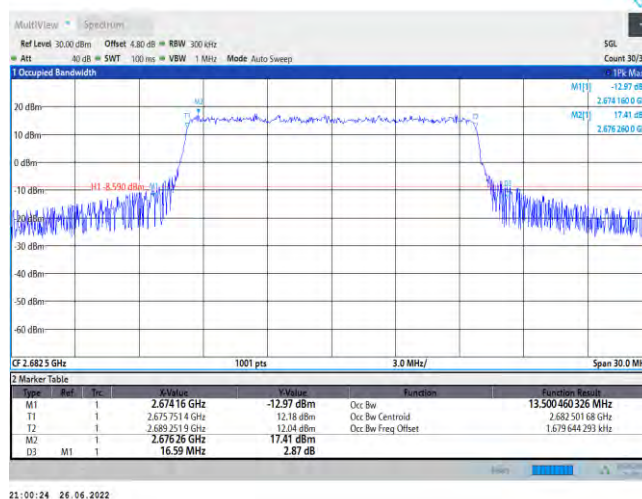
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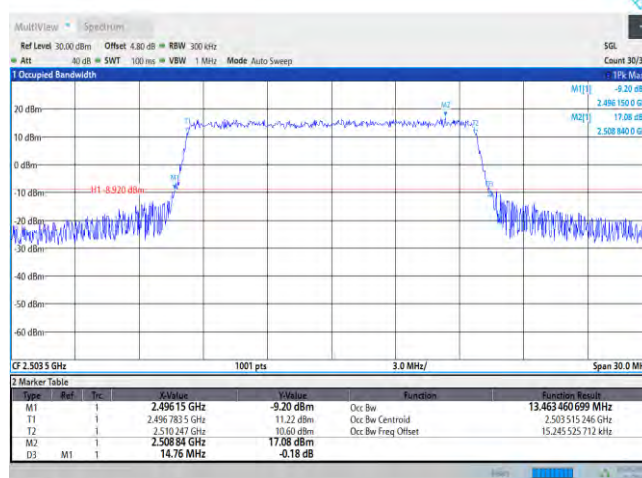
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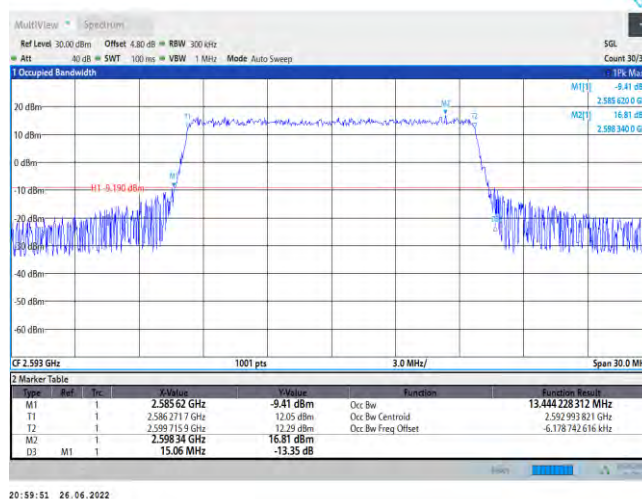
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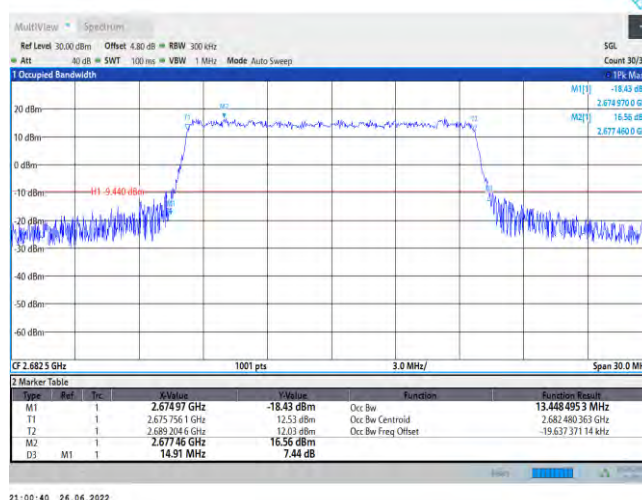
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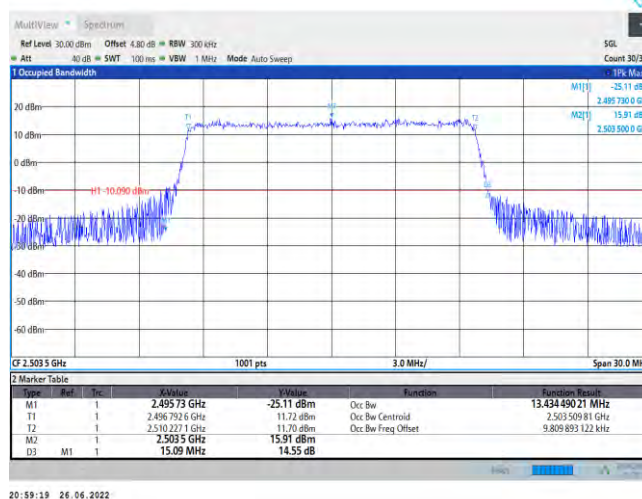
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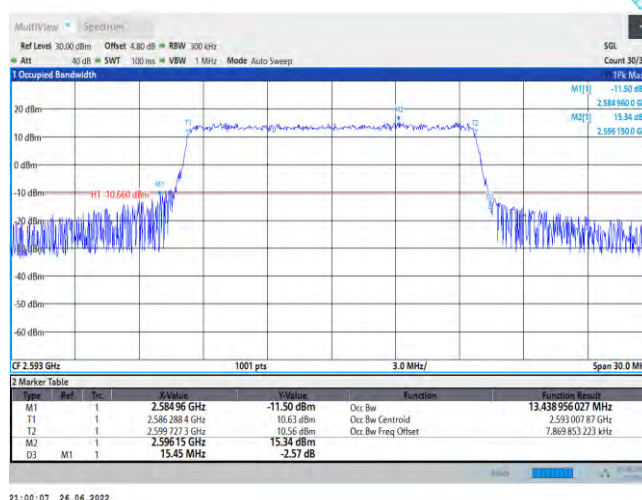
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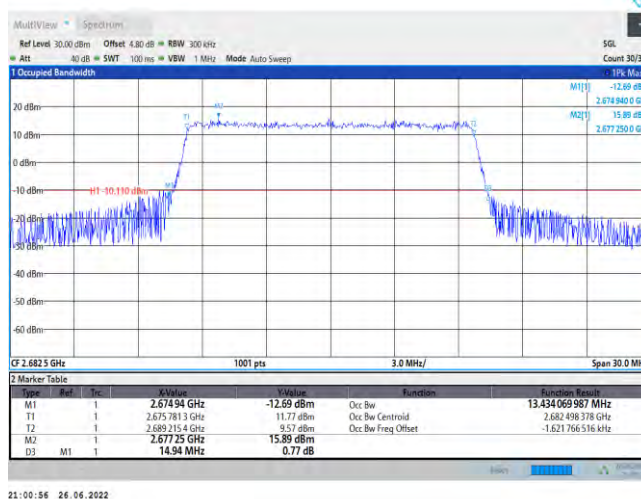
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Band41-15MHz-64QAM-41515-75RB#0



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



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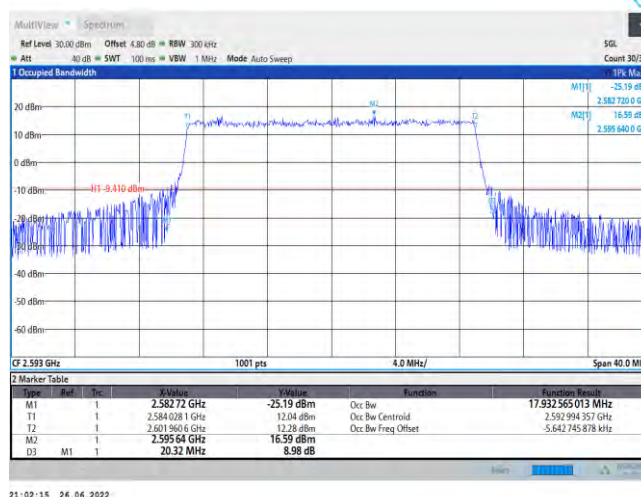
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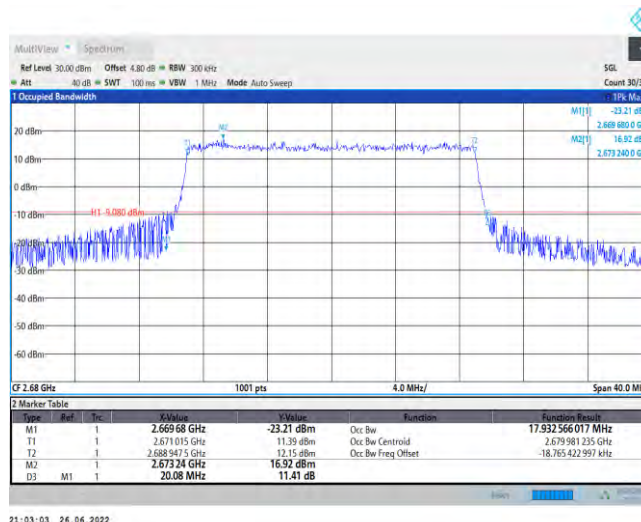
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Band41-20MHz-QPSK-40620-100RB#0



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



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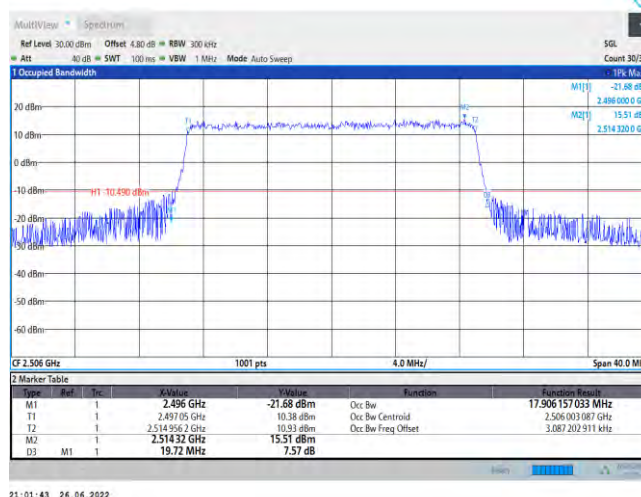
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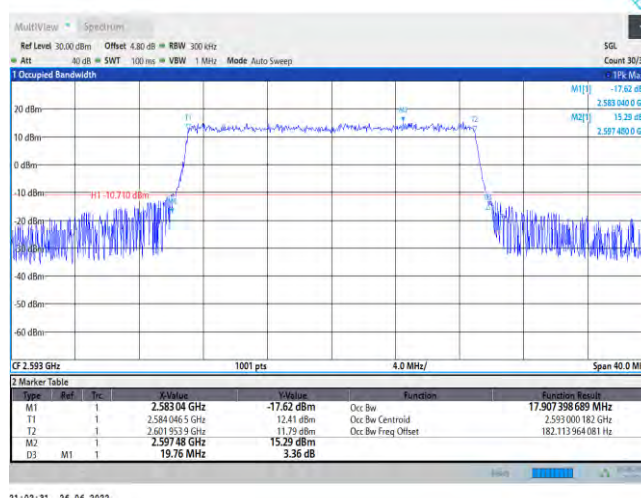
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Band41-20MHz-16QAM-40620-100RB#0



21:02:31 26.06.2022



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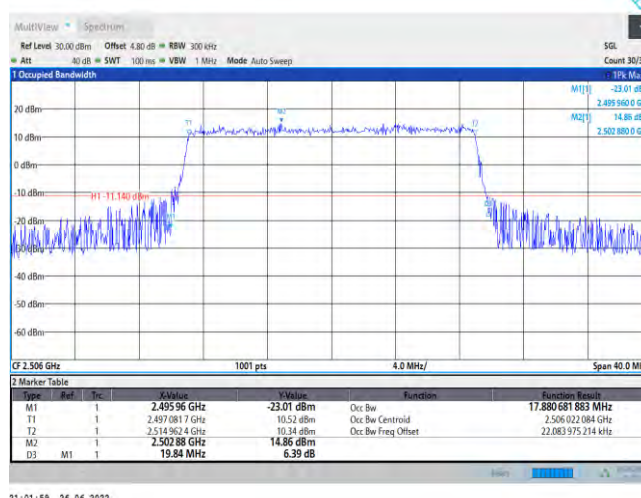
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Band41-20MHz-64QAM-39750-100RB#0



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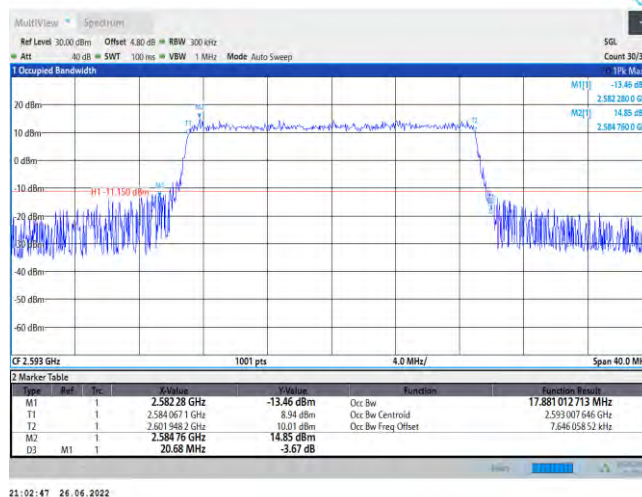
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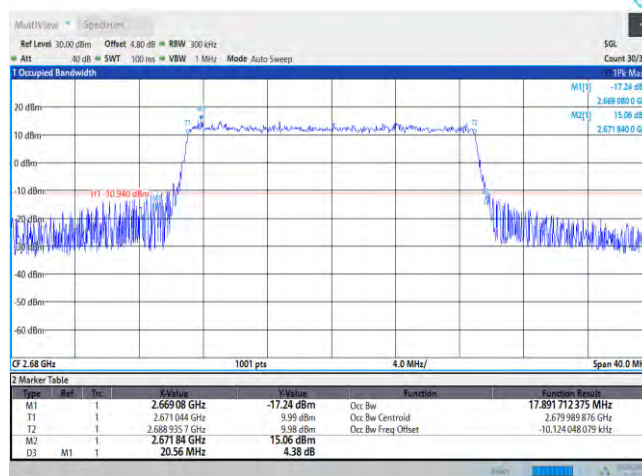
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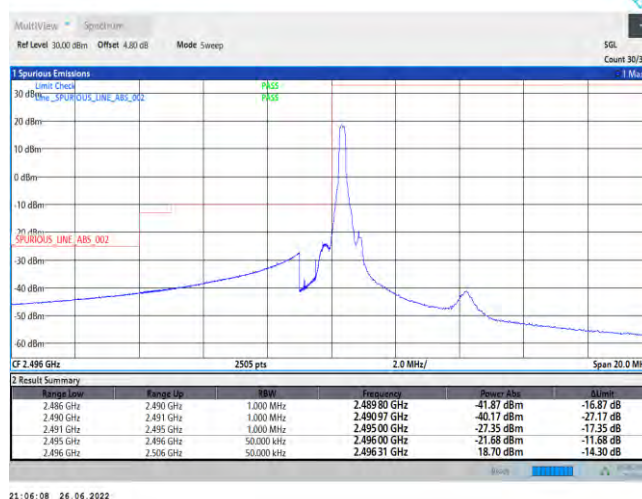
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Band Edge

Test Graphs

Band41-5MHz-QPSK-39675-1RB#0



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



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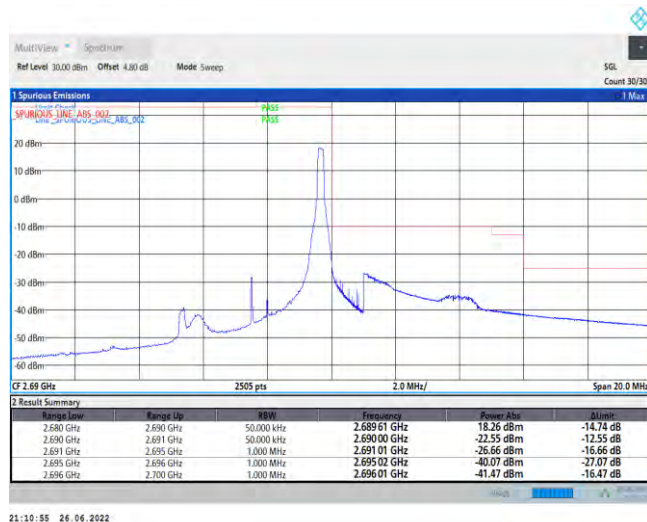
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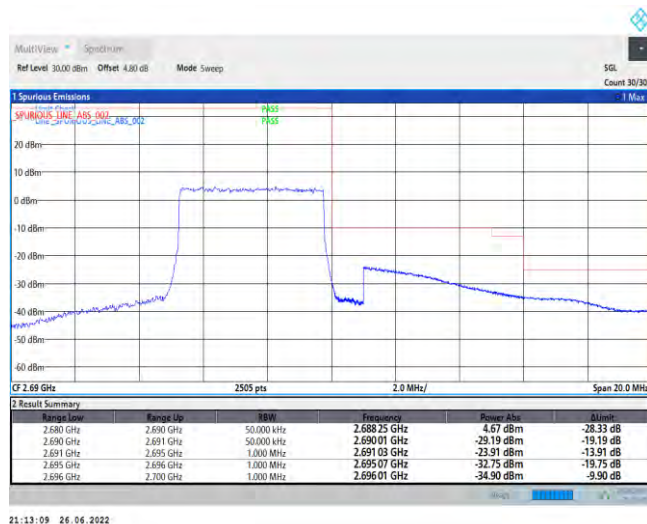
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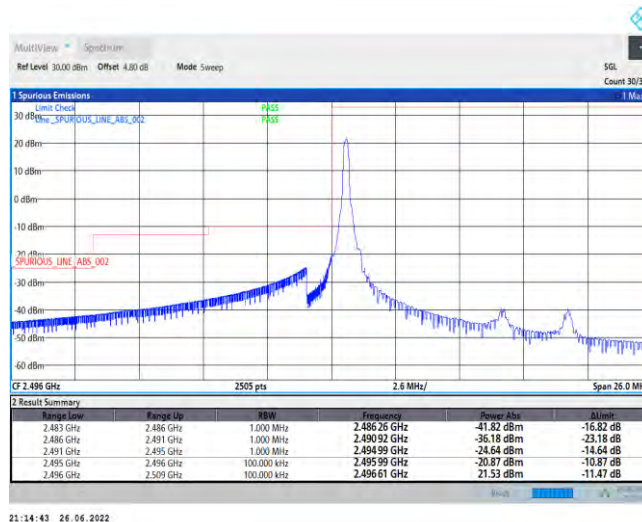
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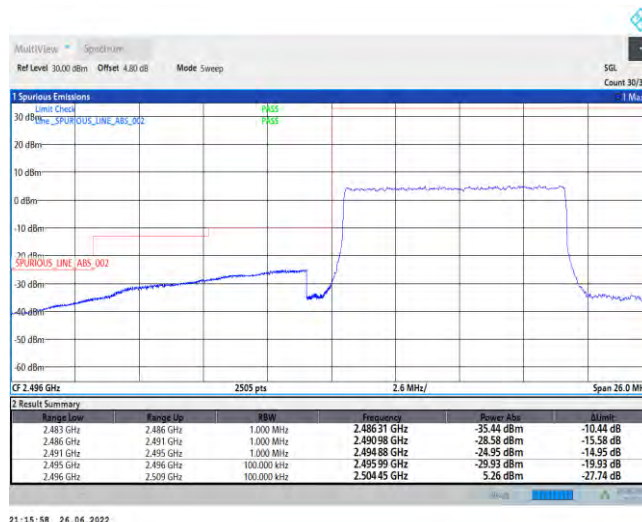
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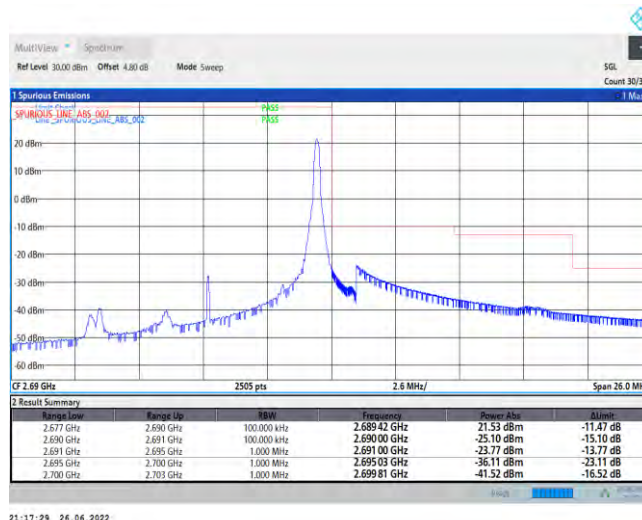
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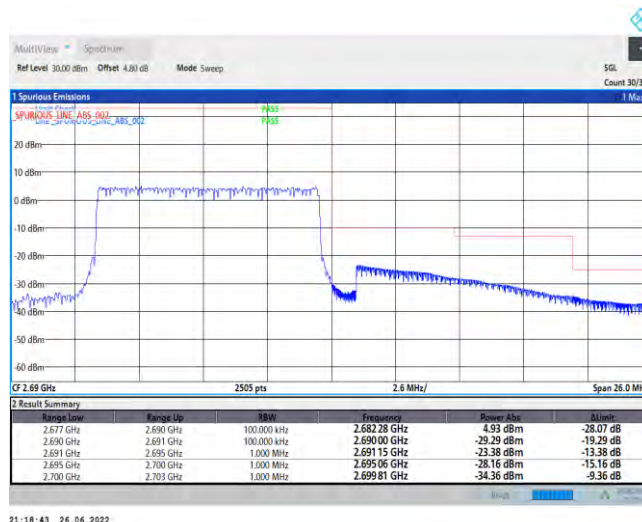
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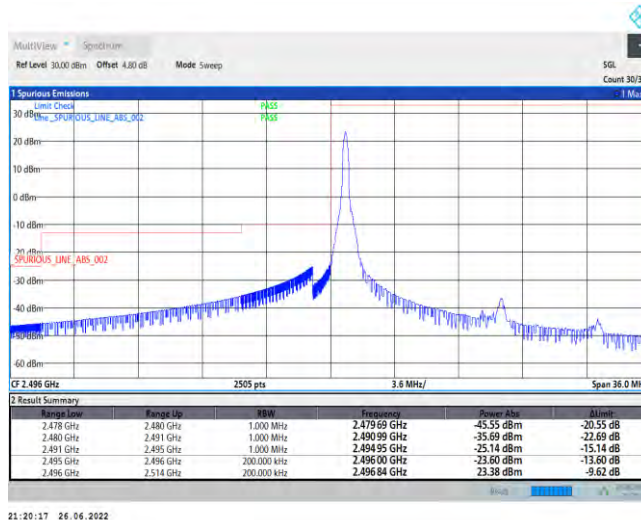
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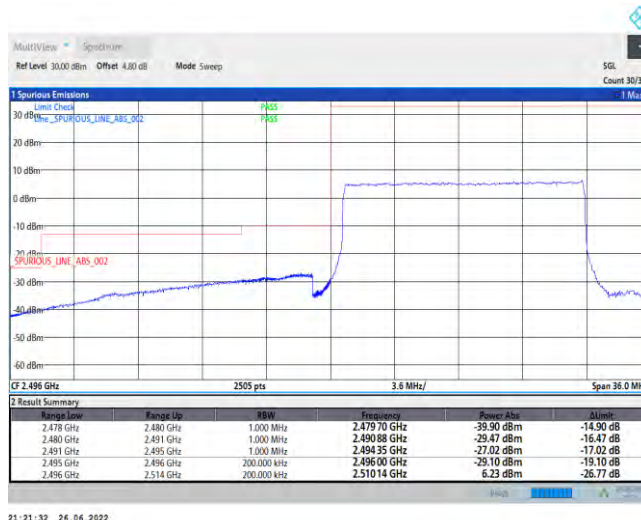
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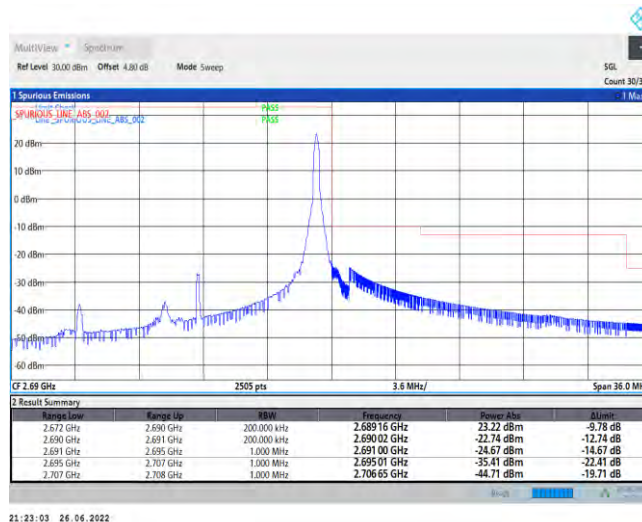
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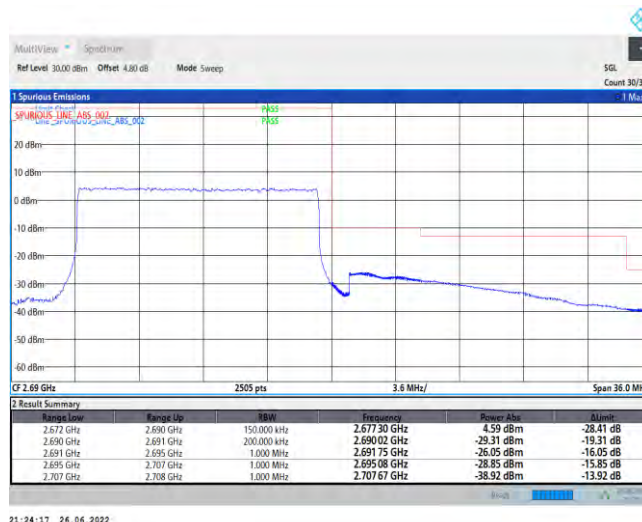
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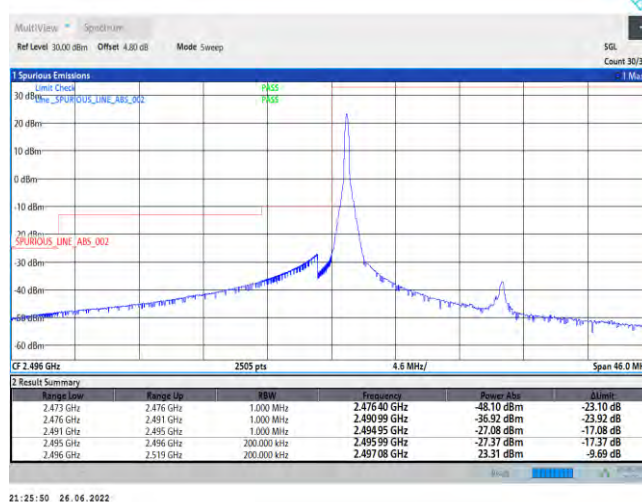
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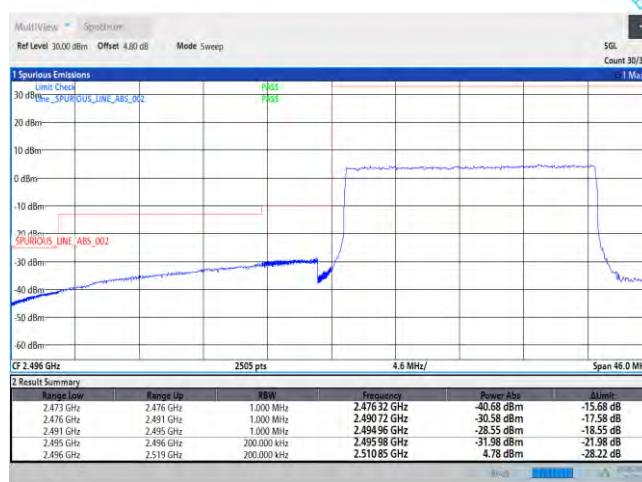
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Band41-20MHz-QPSK-39750-100RB#0



21:27:05 26.06.2022



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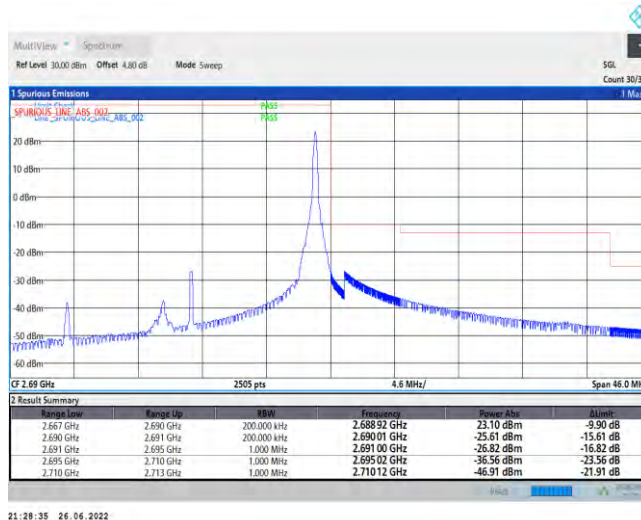
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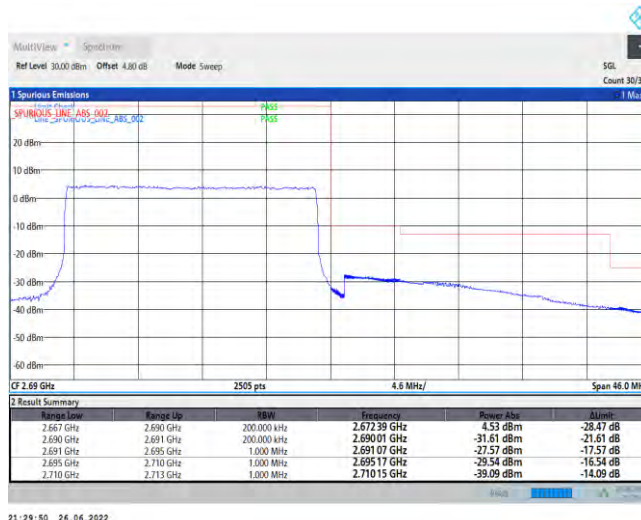
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Band41-20MHz-QPSK-41490-1RB#99



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



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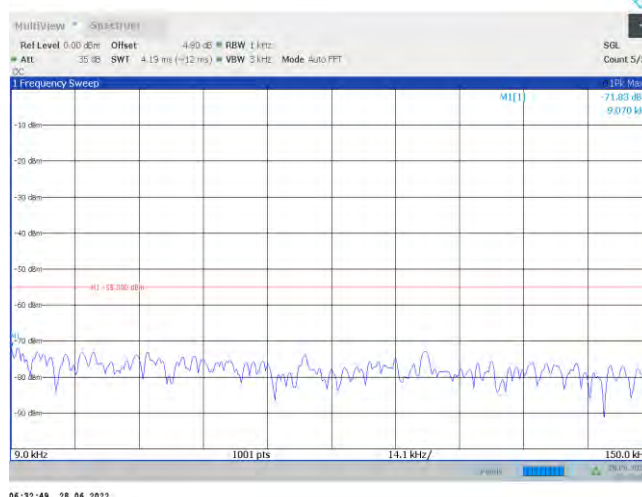
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Conducted Spurious Emission

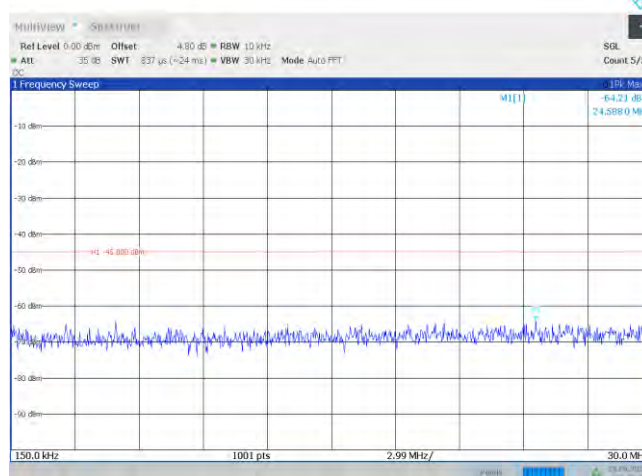
Test Graphs

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



06:32:49 28.06.2022

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



06:32:52 28.06.2022



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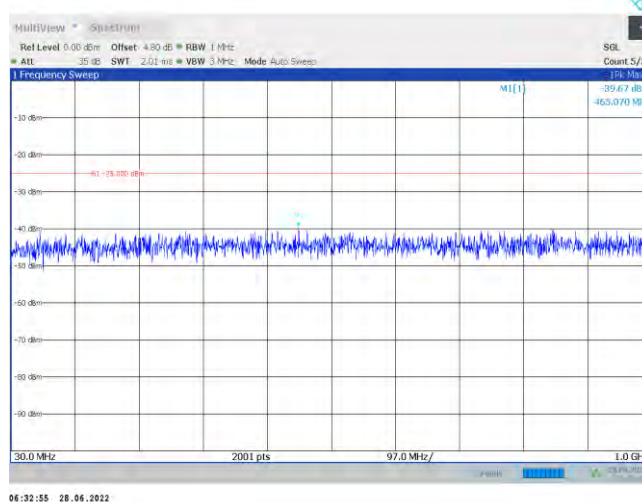
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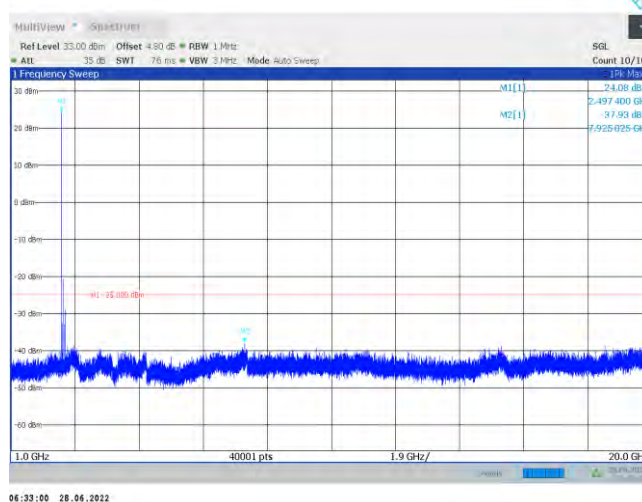
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Band41-20MHz-QPSK-39750-1RB#0-Range3:30~1000MHz



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



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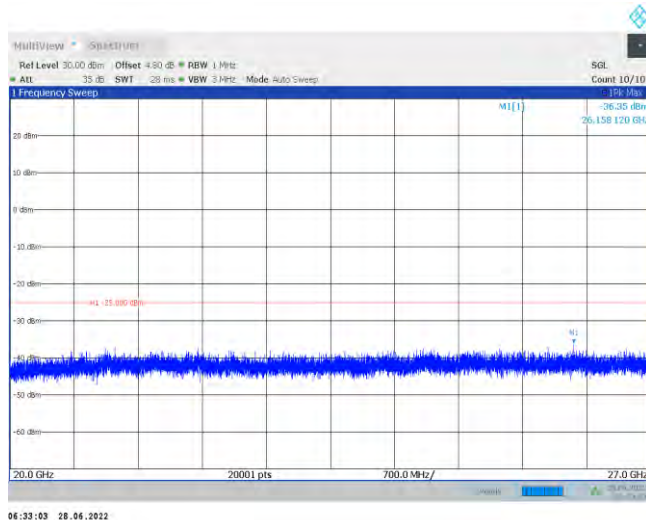
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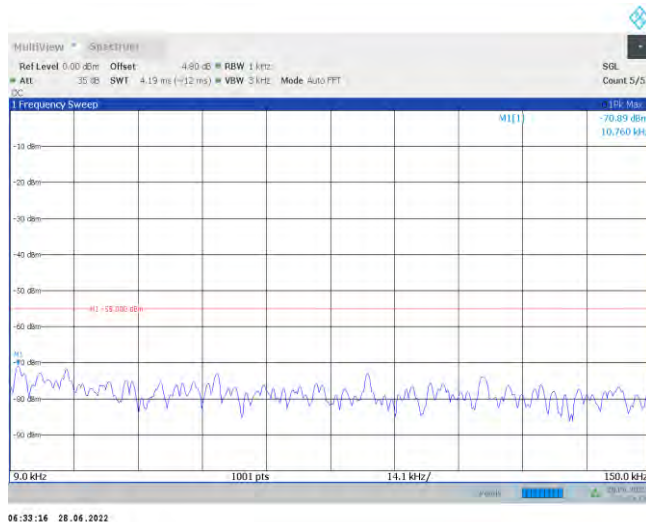
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Band41-20MHz-QPSK-39750-1RB#0-Range5:20000~27000MHz



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



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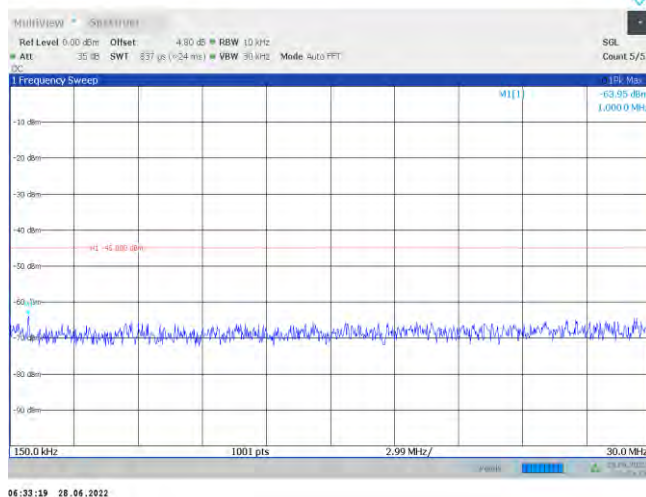
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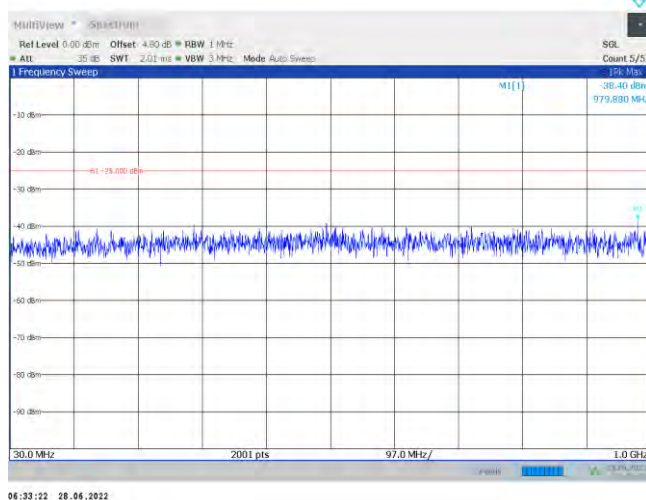
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Band41-20MHz-QPSK-40620-1RB#0-Range2:0.15~30MHz



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



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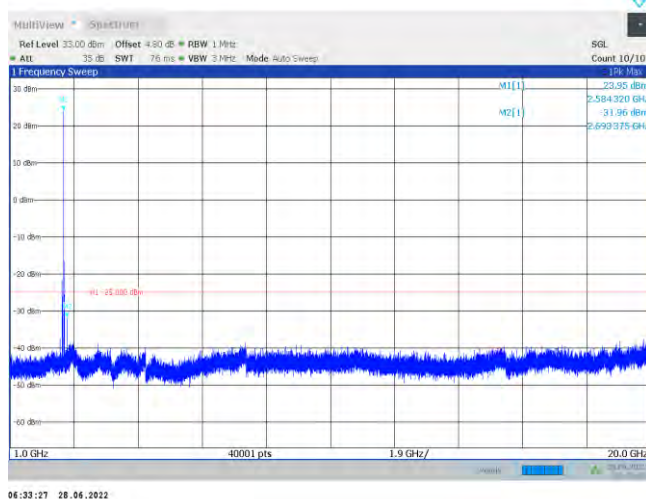
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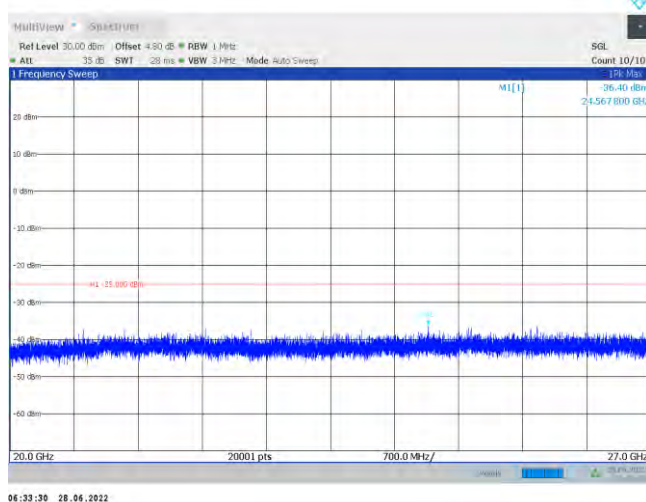
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Band41-20MHz-QPSK-40620-1RB#0-Range4:1000~20000MHz



Band41-20MHz-QPSK-40620-1RB#0-Range5:20000~27000MHz



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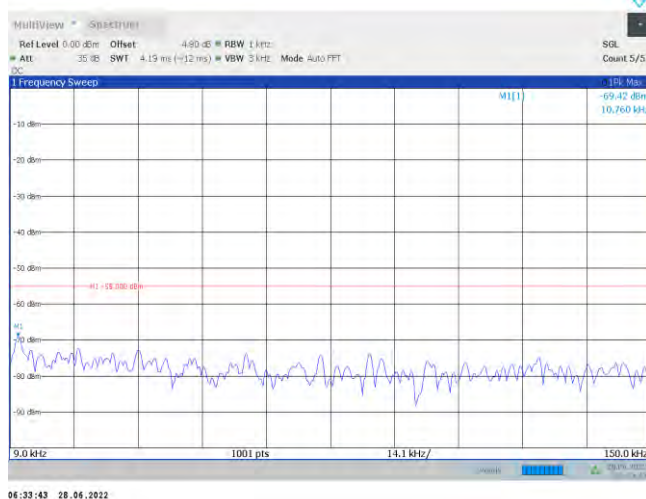
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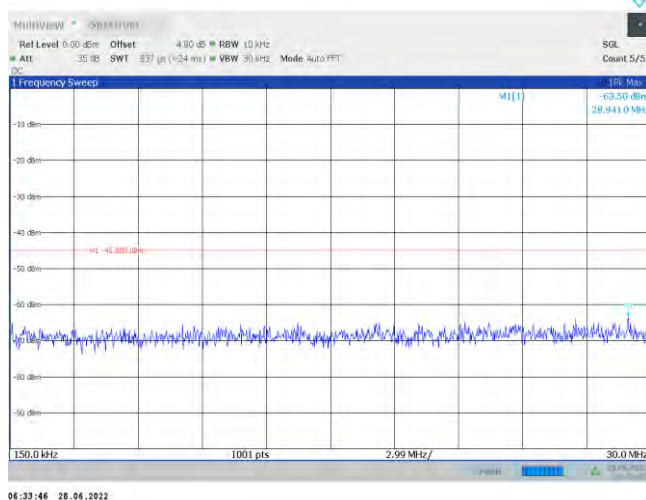
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Band41-20MHz-QPSK-41490-1RB#0-Range1:0.009~0.15MHz



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



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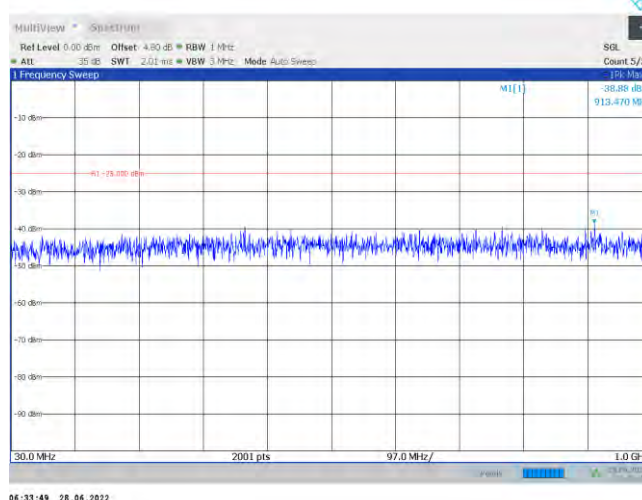
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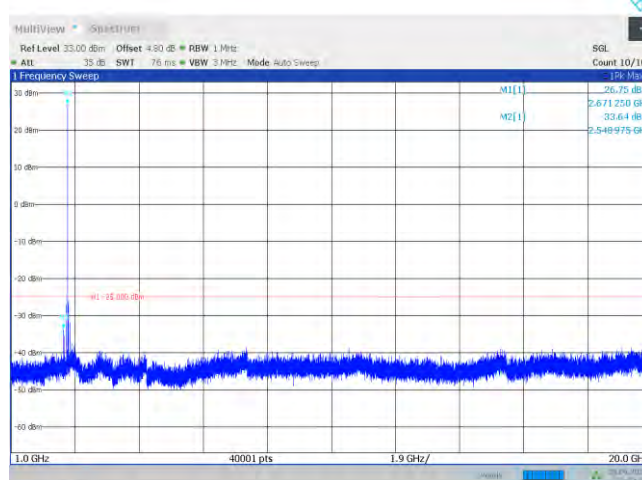
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Band41-20MHz-QPSK-41490-1RB#0-Range3:30~1000MHz



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



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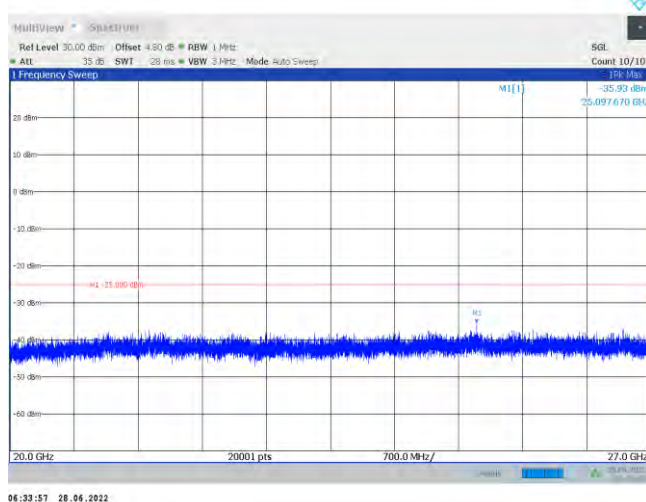
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Band41-20MHz-QPSK-41490-1RB#0-Range5:20000~27000MHz



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Field Strength of Spurious Radiation

For Sample #1

Test Band = LTE Band41_ TM1

Test Channel = Low

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4994.1800	62.46	-45.63	32.86	-45.57	-25.00	20.57	184	158	Horizontal
2	7491.2700	64.76	-43.16	36.44	-37.22	-25.00	12.22	144	302	Horizontal
3	9988.3600	40.85	-39.25	38.47	-55.19	-25.00	30.19	122	120	Horizontal
4	12485.4500	36.84	-37.04	39.16	-56.30	-25.00	31.30	285	151	Horizontal
5	14982.5400	34.00	-34.64	39.26	-56.64	-25.00	31.64	265	212	Horizontal
6	17479.6300	37.88	-35.10	39.13	-53.35	-25.00	28.35	208	68	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	4994.1800	56.23	-45.63	32.86	-51.80	-25.00	26.80	281	175	Vertical
2	7491	60.96	-43.16	36.44	-41.02	-25.00	16.02	238	16	Vertical
3	9988.3600	42.08	-39.25	38.47	-53.96	-25.00	28.96	207	24	Vertical
4	12485.4500	37.36	-37.04	39.16	-55.78	-25.00	30.78	185	138	Vertical
5	14982.5400	33.71	-34.64	39.26	-56.93	-25.00	31.93	158	341	Vertical
6	17479.6300	38.31	-35.10	39.13	-52.92	-25.00	27.92	171	221	Vertical



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Test Band = LTE Band41_ TM1
Test Channel = Mid

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1314.6667	43.05	-24.71	25.61	-51.31	-25.00	26.31	250	49	Horizontal
2	5168.1800	62.00	-45.31	32.97	-45.60	-25.00	20.60	241	213	Horizontal
3	7752	64.21	-42.70	36.69	-37.06	-25.00	12.06	265	183	Horizontal
4	10336.3600	41.61	-39.06	38.84	-53.87	-25.00	28.87	174	138	Horizontal
5	12920.4500	37.01	-37.16	39.75	-55.66	-25.00	30.66	165	39	Horizontal
6	15504.5400	34.72	-35.35	38.57	-57.32	-25.00	32.32	162	9	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	3988.5	52.23	-46.07	30.77	-58.32	-25.00	33.32	205	341	Vertical
2	5168.1800	57.37	-45.31	32.97	-50.23	-25.00	25.23	274	213	Vertical
3	7752.2700	62.07	-42.69	36.69	-39.19	-25.00	14.19	127	100	Vertical
4	10336.3600	41.15	-39.06	38.84	-54.33	-25.00	29.33	145	319	Vertical
5	12920.4500	36.96	-37.16	39.75	-55.71	-25.00	30.71	178	1	Vertical
6	15504.5400	34.51	-35.35	38.57	-57.53	-25.00	32.53	132	176	Vertical



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Test Band = LTE Band41_ TM1
Test Channel = High

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1821.3333	40.25	-24.62	25.56	-54.07	-25.00	29.07	124	87	Horizontal
2	5342.1800	61.92	-45.18	32.85	-45.66	-25.00	20.66	133	212	Horizontal
3	8013	65.87	-42.22	37.01	-34.60	-25.00	9.60	185	107	Horizontal
4	10684.3600	39.42	-37.97	39.13	-54.68	-25.00	29.68	175	258	Horizontal
5	13355.4500	36.25	-36.56	40.10	-55.47	-25.00	30.47	249	76	Horizontal
6	16026.5400	37.30	-34.85	37.83	-54.99	-25.00	29.99	271	0	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	1990	40.33	-24.48	26.58	-52.83	-25.00	27.83	164	73	Vertical
2	5342.1800	54.43	-45.18	32.85	-53.15	-25.00	28.15	175	152	Vertical
3	8013.2700	62.15	-42.21	37.01	-38.31	-25.00	13.31	138	101	Vertical
4	10684.3600	39.92	-37.97	39.13	-54.18	-25.00	29.18	244	296	Vertical
5	13355.4500	35.83	-36.56	40.10	-55.89	-25.00	30.89	186	229	Vertical
6	16026.5400	36.29	-34.85	37.83	-56.00	-25.00	31.00	247	175	Vertical



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For Sample #2

Test Band = LTE Band41_ TM1

Test Channel = Low

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4994.1800	58.07	-45.63	32.86	-49.96	-25.00	24.96	125	300	Horizontal
2	7491.2700	56.04	-43.16	36.44	-45.94	-25.00	20.94	236	0	Horizontal
3	9988.3600	44.02	-39.25	38.47	-52.02	-25.00	27.02	255	164	Horizontal
4	12485.4500	40.61	-37.04	39.16	-52.53	-25.00	27.53	145	209	Horizontal
5	14982.5400	40.00	-34.64	39.26	-50.64	-25.00	25.64	196	104	Horizontal
6	17479.6300	40.60	-35.10	39.13	-50.63	-25.00	25.63	172	316	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	4994.1800	55.20	-45.63	32.86	-52.83	-25.00	27.83	255	87	Vertical
2	7491.2700	57.91	-43.16	36.44	-44.07	-25.00	19.07	189	346	Vertical
3	9988.3600	44.73	-39.25	38.47	-51.31	-25.00	26.31	197	2	Vertical
4	12485.4500	40.95	-37.04	39.16	-52.19	-25.00	27.19	165	356	Vertical
5	14982.5400	40.04	-34.64	39.26	-50.60	-25.00	25.60	133	16	Vertical
6	17479.6300	41.22	-35.10	39.13	-50.01	-25.00	25.01	145	133	Vertical



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Test Band = LTE Band41_ TM1
Test Channel = Mid

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4009.5	51.83	-46.01	30.81	-58.63	-25.00	33.63	302	151	Horizontal
2	5168.1800	54.20	-45.31	32.97	-53.40	-25.00	28.40	154	286	Horizontal
3	7752.2700	48.68	-42.69	36.69	-52.58	-25.00	27.58	195	3	Horizontal
4	10336.3600	45.11	-39.06	38.84	-50.37	-25.00	25.37	175	270	Horizontal
5	12920.4500	41.29	-37.16	39.75	-51.38	-25.00	26.38	188	12	Horizontal
6	15504.5400	39.65	-35.35	38.57	-52.39	-25.00	27.39	166	23	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	3480.75	53.05	-46.26	29.50	-58.97	-25.00	33.97	144	75	Vertical
2	5168.1800	54.24	-45.31	32.97	-53.36	-25.00	28.36	251	16	Vertical
3	7752.2700	50.66	-42.69	36.69	-50.60	-25.00	25.60	236	226	Vertical
4	10336.3600	43.66	-39.06	38.84	-51.82	-25.00	26.82	261	273	Vertical
5	12920.4500	41.99	-37.16	39.75	-50.68	-25.00	25.68	155	287	Vertical
6	15504.5400	39.22	-35.35	38.57	-52.82	-25.00	27.82	148	125	Vertical



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Test Band = LTE Band41_ TM1
Test Channel = High

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3498.75	52.49	-46.26	29.52	-59.51	-25.00	34.51	254	268	Horizontal
2	5342.1800	53.91	-45.18	32.85	-53.67	-25.00	28.67	162	285	Horizontal
3	8013.2700	48.93	-42.21	37.01	-51.53	-25.00	26.53	239	299	Horizontal
4	10684.3600	46.42	-37.97	39.13	-47.68	-25.00	22.68	184	87	Horizontal
5	13355.4500	40.08	-36.56	40.10	-51.64	-25.00	26.64	175	0	Horizontal
6	16026.5400	40.25	-34.85	37.83	-52.04	-25.00	27.04	211	225	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	5342.1800	52.32	-45.18	32.85	-55.26	-25.00	30.26	178	300	Vertical
2	8013.2700	51.13	-42.21	37.01	-49.33	-25.00	24.33	194	344	Vertical
3	10684.3600	45.19	-37.97	39.13	-48.91	-25.00	23.91	154	120	Vertical
4	13355.4500	40.14	-36.56	40.10	-51.58	-25.00	26.58	172	74	Vertical
5	13664.25	43.29	-36.13	40.09	-48.01	-25.00	23.01	203	357	Vertical
6	16026.5400	40.12	-34.85	37.83	-52.17	-25.00	27.17	211	164	Vertical

Remark:

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

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

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

AF = Antenna Factor(dB/m)

Margin = Limit(dBm) – Level(dBm)

dBm = dBμV -95.26



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Frequency Stability

Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band41	20MHz	QPSK	40620	100RB#0	VL	NT	0.10	0.000039	PASS
Band41	20MHz	QPSK	40620	100RB#0	VN	NT	-2.20	-0.000848	PASS
Band41	20MHz	QPSK	40620	100RB#0	VH	NT	-0.90	-0.000347	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band41	20MHz	QPSK	40620	100RB#0	NV	-30	-0.40	-0.000154	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-20	-2.80	-0.001080	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-10	0.60	0.000231	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	0	0.50	0.000193	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	10	-1.60	-0.000617	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	20	-0.50	-0.000193	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	30	0.60	0.000231	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	40	-1.90	-0.000733	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	50	0.70	0.000270	PASS

The End



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