

Appendix B.12

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	22.67	26.27	33	PASS
Band41	5MHz	QPSK	39675	1RB#12	22.7	26.3	33	PASS
Band41	5MHz	QPSK	39675	1RB#24	22.69	26.29	33	PASS
Band41	5MHz	QPSK	39675	25RB#0	21.75	25.35	33	PASS
Band41	5MHz	QPSK	40620	1RB#0	22.82	26.42	33	PASS
Band41	5MHz	QPSK	40620	1RB#12	22.87	26.47	33	PASS
Band41	5MHz	QPSK	40620	1RB#24	22.82	26.42	33	PASS
Band41	5MHz	QPSK	40620	25RB#0	21.91	25.51	33	PASS
Band41	5MHz	QPSK	41565	1RB#0	22.62	26.22	33	PASS
Band41	5MHz	QPSK	41565	1RB#12	22.62	26.22	33	PASS
Band41	5MHz	QPSK	41565	1RB#24	22.56	26.16	33	PASS
Band41	5MHz	QPSK	41565	25RB#0	21.7	25.3	33	PASS
Band41	5MHz	16QAM	39675	1RB#0	21.73	25.33	33	PASS
Band41	5MHz	16QAM	39675	1RB#12	21.76	25.36	33	PASS
Band41	5MHz	16QAM	39675	1RB#24	21.75	25.35	33	PASS
Band41	5MHz	16QAM	39675	25RB#0	20.79	24.39	33	PASS
Band41	5MHz	16QAM	40620	1RB#0	21.87	25.47	33	PASS
Band41	5MHz	16QAM	40620	1RB#12	21.92	25.52	33	PASS
Band41	5MHz	16QAM	40620	1RB#24	21.88	25.48	33	PASS
Band41	5MHz	16QAM	40620	25RB#0	20.9	24.5	33	PASS
Band41	5MHz	16QAM	41565	1RB#0	21.58	25.18	33	PASS
Band41	5MHz	16QAM	41565	1RB#12	21.65	25.25	33	PASS
Band41	5MHz	16QAM	41565	1RB#24	21.6	25.2	33	PASS
Band41	5MHz	16QAM	41565	25RB#0	20.68	24.28	33	PASS
Band41	5MHz	64QAM	39675	1RB#0	20.33	23.93	33	PASS
Band41	5MHz	64QAM	39675	1RB#12	20.37	23.97	33	PASS
Band41	5MHz	64QAM	39675	1RB#24	20.37	23.97	33	PASS



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Band41	5MHz	64QAM	39675	25RB#0	19.83	23.43	33	PASS
Band41	5MHz	64QAM	40620	1RB#0	20.53	24.13	33	PASS
Band41	5MHz	64QAM	40620	1RB#12	20.54	24.14	33	PASS
Band41	5MHz	64QAM	40620	1RB#24	20.54	24.14	33	PASS
Band41	5MHz	64QAM	40620	25RB#0	19.91	23.51	33	PASS
Band41	5MHz	64QAM	41565	1RB#0	20.25	23.85	33	PASS
Band41	5MHz	64QAM	41565	1RB#12	20.29	23.89	33	PASS
Band41	5MHz	64QAM	41565	1RB#24	20.21	23.81	33	PASS
Band41	5MHz	64QAM	41565	25RB#0	19.73	23.33	33	PASS
Band41	10MHz	QPSK	39700	1RB#0	22.77	26.37	33	PASS
Band41	10MHz	QPSK	39700	1RB#24	22.77	26.37	33	PASS
Band41	10MHz	QPSK	39700	1RB#49	22.74	26.34	33	PASS
Band41	10MHz	QPSK	39700	50RB#0	21.87	25.47	33	PASS
Band41	10MHz	QPSK	40620	1RB#0	22.88	26.48	33	PASS
Band41	10MHz	QPSK	40620	1RB#24	22.86	26.46	33	PASS
Band41	10MHz	QPSK	40620	1RB#49	22.88	26.48	33	PASS
Band41	10MHz	QPSK	40620	50RB#0	21.94	25.54	33	PASS
Band41	10MHz	QPSK	41540	1RB#0	22.66	26.26	33	PASS
Band41	10MHz	QPSK	41540	1RB#24	22.62	26.22	33	PASS
Band41	10MHz	QPSK	41540	1RB#49	22.63	26.23	33	PASS
Band41	10MHz	QPSK	41540	50RB#0	21.76	25.36	33	PASS
Band41	10MHz	16QAM	39700	1RB#0	21.86	25.46	33	PASS
Band41	10MHz	16QAM	39700	1RB#24	21.82	25.42	33	PASS
Band41	10MHz	16QAM	39700	1RB#49	21.81	25.41	33	PASS
Band41	10MHz	16QAM	39700	50RB#0	20.89	24.49	33	PASS
Band41	10MHz	16QAM	40620	1RB#0	21.91	25.51	33	PASS
Band41	10MHz	16QAM	40620	1RB#24	21.89	25.49	33	PASS
Band41	10MHz	16QAM	40620	1RB#49	21.91	25.51	33	PASS
Band41	10MHz	16QAM	40620	50RB#0	20.93	24.53	33	PASS
Band41	10MHz	16QAM	41540	1RB#0	21.66	25.26	33	PASS
Band41	10MHz	16QAM	41540	1RB#24	21.63	25.23	33	PASS
Band41	10MHz	16QAM	41540	1RB#49	21.58	25.18	33	PASS



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Band41	10MHz	16QAM	41540	50RB#0	20.73	24.33	33	PASS
Band41	10MHz	64QAM	39700	1RB#0	20.46	24.06	33	PASS
Band41	10MHz	64QAM	39700	1RB#24	20.41	24.01	33	PASS
Band41	10MHz	64QAM	39700	1RB#49	20.42	24.02	33	PASS
Band41	10MHz	64QAM	39700	50RB#0	19.88	23.48	33	PASS
Band41	10MHz	64QAM	40620	1RB#0	20.51	24.11	33	PASS
Band41	10MHz	64QAM	40620	1RB#24	20.52	24.12	33	PASS
Band41	10MHz	64QAM	40620	1RB#49	20.5	24.1	33	PASS
Band41	10MHz	64QAM	40620	50RB#0	19.92	23.52	33	PASS
Band41	10MHz	64QAM	41540	1RB#0	20.28	23.88	33	PASS
Band41	10MHz	64QAM	41540	1RB#24	20.28	23.88	33	PASS
Band41	10MHz	64QAM	41540	1RB#49	20.27	23.87	33	PASS
Band41	10MHz	64QAM	41540	50RB#0	19.74	23.34	33	PASS
Band41	15MHz	QPSK	39725	1RB#0	22.71	26.31	33	PASS
Band41	15MHz	QPSK	39725	1RB#38	22.67	26.27	33	PASS
Band41	15MHz	QPSK	39725	1RB#74	22.72	26.32	33	PASS
Band41	15MHz	QPSK	39725	75RB#0	21.79	25.39	33	PASS
Band41	15MHz	QPSK	40620	1RB#0	22.87	26.47	33	PASS
Band41	15MHz	QPSK	40620	1RB#38	22.84	26.44	33	PASS
Band41	15MHz	QPSK	40620	1RB#74	22.85	26.45	33	PASS
Band41	15MHz	QPSK	40620	75RB#0	21.91	25.51	33	PASS
Band41	15MHz	QPSK	41515	1RB#0	22.6	26.2	33	PASS
Band41	15MHz	QPSK	41515	1RB#38	22.62	26.22	33	PASS
Band41	15MHz	QPSK	41515	1RB#74	22.61	26.21	33	PASS
Band41	15MHz	QPSK	41515	75RB#0	21.74	25.34	33	PASS
Band41	15MHz	16QAM	39725	1RB#0	21.77	25.37	33	PASS
Band41	15MHz	16QAM	39725	1RB#38	21.75	25.35	33	PASS
Band41	15MHz	16QAM	39725	1RB#74	21.78	25.38	33	PASS
Band41	15MHz	16QAM	39725	75RB#0	20.81	24.41	33	PASS
Band41	15MHz	16QAM	40620	1RB#0	21.9	25.5	33	PASS
Band41	15MHz	16QAM	40620	1RB#38	21.92	25.52	33	PASS
Band41	15MHz	16QAM	40620	1RB#74	21.95	25.55	33	PASS



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Band41	15MHz	16QAM	40620	75RB#0	20.92	24.52	33	PASS
Band41	15MHz	16QAM	41515	1RB#0	21.57	25.17	33	PASS
Band41	15MHz	16QAM	41515	1RB#38	21.63	25.23	33	PASS
Band41	15MHz	16QAM	41515	1RB#74	21.64	25.24	33	PASS
Band41	15MHz	16QAM	41515	75RB#0	20.71	24.31	33	PASS
Band41	15MHz	64QAM	39725	1RB#0	20.37	23.97	33	PASS
Band41	15MHz	64QAM	39725	1RB#38	20.35	23.95	33	PASS
Band41	15MHz	64QAM	39725	1RB#74	20.37	23.97	33	PASS
Band41	15MHz	64QAM	39725	75RB#0	19.8	23.4	33	PASS
Band41	15MHz	64QAM	40620	1RB#0	20.49	24.09	33	PASS
Band41	15MHz	64QAM	40620	1RB#38	20.56	24.16	33	PASS
Band41	15MHz	64QAM	40620	1RB#74	20.53	24.13	33	PASS
Band41	15MHz	64QAM	40620	75RB#0	19.92	23.52	33	PASS
Band41	15MHz	64QAM	41515	1RB#0	20.21	23.81	33	PASS
Band41	15MHz	64QAM	41515	1RB#38	20.25	23.85	33	PASS
Band41	15MHz	64QAM	41515	1RB#74	20.26	23.86	33	PASS
Band41	15MHz	64QAM	41515	75RB#0	19.75	23.35	33	PASS
Band41	20MHz	QPSK	39750	1RB#0	22.68	26.28	33	PASS
Band41	20MHz	QPSK	39750	1RB#49	22.69	26.29	33	PASS
Band41	20MHz	QPSK	39750	1RB#99	22.72	26.32	33	PASS
Band41	20MHz	QPSK	39750	100RB#0	21.8	25.4	33	PASS
Band41	20MHz	QPSK	40620	1RB#0	22.82	26.42	33	PASS
Band41	20MHz	QPSK	40620	1RB#49	22.83	26.43	33	PASS
Band41	20MHz	QPSK	40620	1RB#99	22.82	26.42	33	PASS
Band41	20MHz	QPSK	40620	100RB#0	21.93	25.53	33	PASS
Band41	20MHz	QPSK	41490	1RB#0	22.69	26.29	33	PASS
Band41	20MHz	QPSK	41490	1RB#49	22.72	26.32	33	PASS
Band41	20MHz	QPSK	41490	1RB#99	22.62	26.22	33	PASS
Band41	20MHz	QPSK	41490	100RB#0	21.76	25.36	33	PASS
Band41	20MHz	16QAM	39750	1RB#0	21.78	25.38	33	PASS
Band41	20MHz	16QAM	39750	1RB#49	21.73	25.33	33	PASS
Band41	20MHz	16QAM	39750	1RB#99	21.77	25.37	33	PASS



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Band41	20MHz	16QAM	39750	100RB#0	20.8	24.4	33	PASS
Band41	20MHz	16QAM	40620	1RB#0	21.9	25.5	33	PASS
Band41	20MHz	16QAM	40620	1RB#49	21.88	25.48	33	PASS
Band41	20MHz	16QAM	40620	1RB#99	21.87	25.47	33	PASS
Band41	20MHz	16QAM	40620	100RB#0	20.96	24.56	33	PASS
Band41	20MHz	16QAM	41490	1RB#0	21.71	25.31	33	PASS
Band41	20MHz	16QAM	41490	1RB#49	21.74	25.34	33	PASS
Band41	20MHz	16QAM	41490	1RB#99	21.61	25.21	33	PASS
Band41	20MHz	16QAM	41490	100RB#0	20.75	24.35	33	PASS
Band41	20MHz	64QAM	39750	1RB#0	20.37	23.97	33	PASS
Band41	20MHz	64QAM	39750	1RB#49	20.36	23.96	33	PASS
Band41	20MHz	64QAM	39750	1RB#99	20.38	23.98	33	PASS
Band41	20MHz	64QAM	39750	100RB#0	19.78	23.38	33	PASS
Band41	20MHz	64QAM	40620	1RB#0	20.47	24.07	33	PASS
Band41	20MHz	64QAM	40620	1RB#49	20.53	24.13	33	PASS
Band41	20MHz	64QAM	40620	1RB#99	20.5	24.1	33	PASS
Band41	20MHz	64QAM	40620	100RB#0	19.96	23.56	33	PASS
Band41	20MHz	64QAM	41490	1RB#0	20.37	23.97	33	PASS
Band41	20MHz	64QAM	41490	1RB#49	20.38	23.98	33	PASS
Band41	20MHz	64QAM	41490	1RB#99	20.24	23.84	33	PASS
Band41	20MHz	64QAM	41490	100RB#0	19.73	23.33	33	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

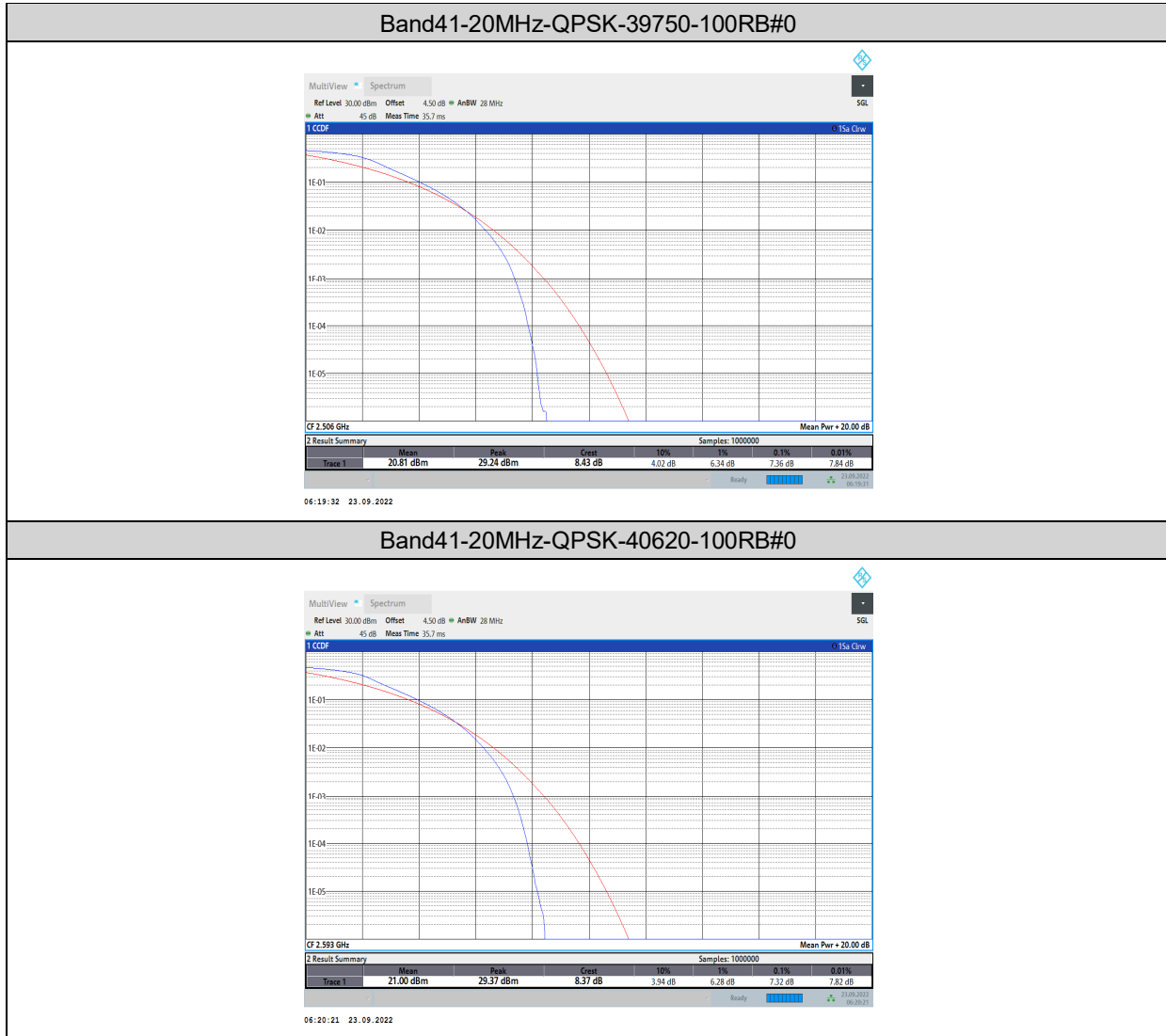
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band41	20MHz	QPSK	39750	100RB#0	7.36	13	PASS
Band41	20MHz	QPSK	40620	100RB#0	7.32	13	PASS
Band41	20MHz	QPSK	41490	100RB#0	6.70	13	PASS
Band41	20MHz	16QAM	39750	100RB#0	7.98	13	PASS
Band41	20MHz	16QAM	40620	100RB#0	8.14	13	PASS
Band41	20MHz	16QAM	41490	100RB#0	7.52	13	PASS
Band41	20MHz	64QAM	39750	100RB#0	8.46	13	PASS
Band41	20MHz	64QAM	40620	100RB#0	8.54	13	PASS
Band41	20MHz	64QAM	41490	100RB#0	8.08	13	PASS



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Test Graphs

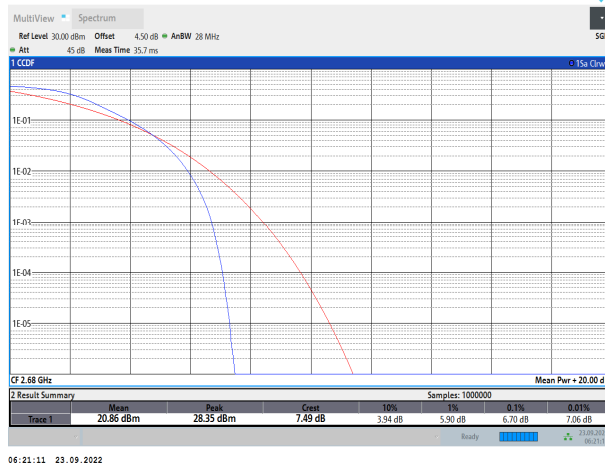


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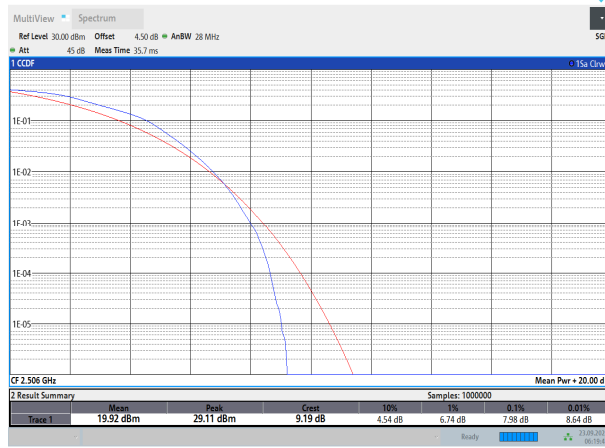
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Band41-20MHz-QPSK-41490-100RB#0



06:21:11 23.09.2022

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



06:19:49 23.09.2022

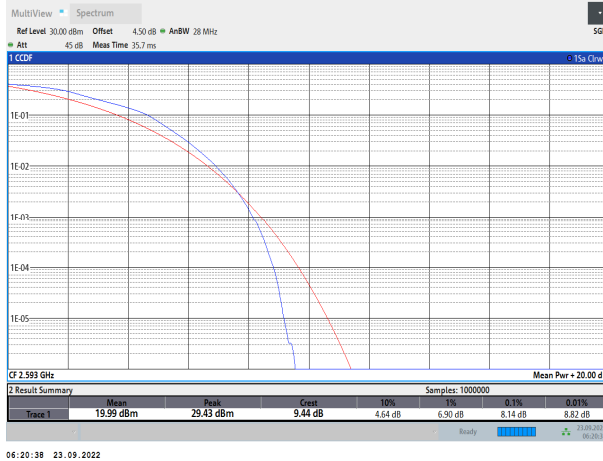


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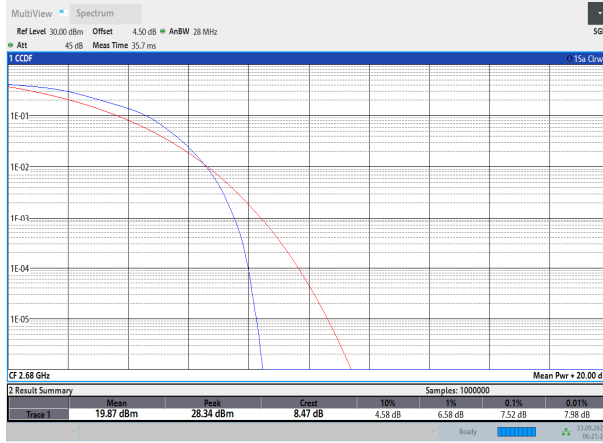
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Band41-20MHz-16QAM-40620-100RB#0



06:20:38 23. 09. 2022

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



06:21:27 23. 09. 2022

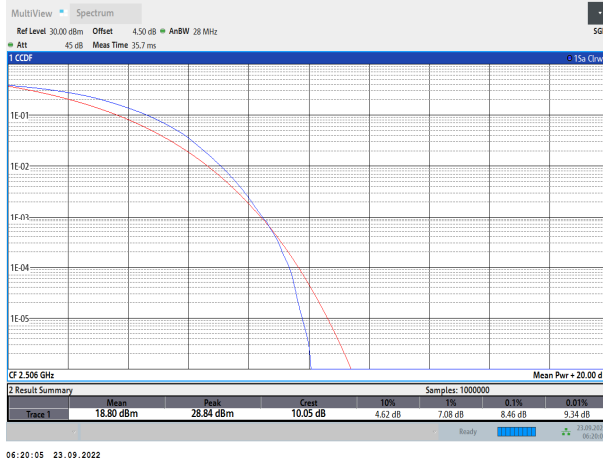


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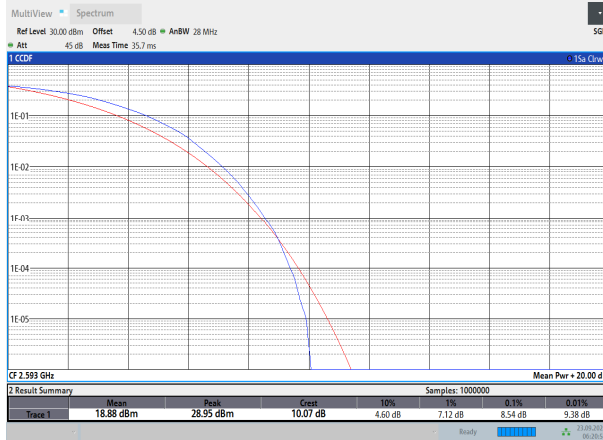
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Band41-20MHz-64QAM-39750-100RB#0



06:20:05 23.09.2022

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



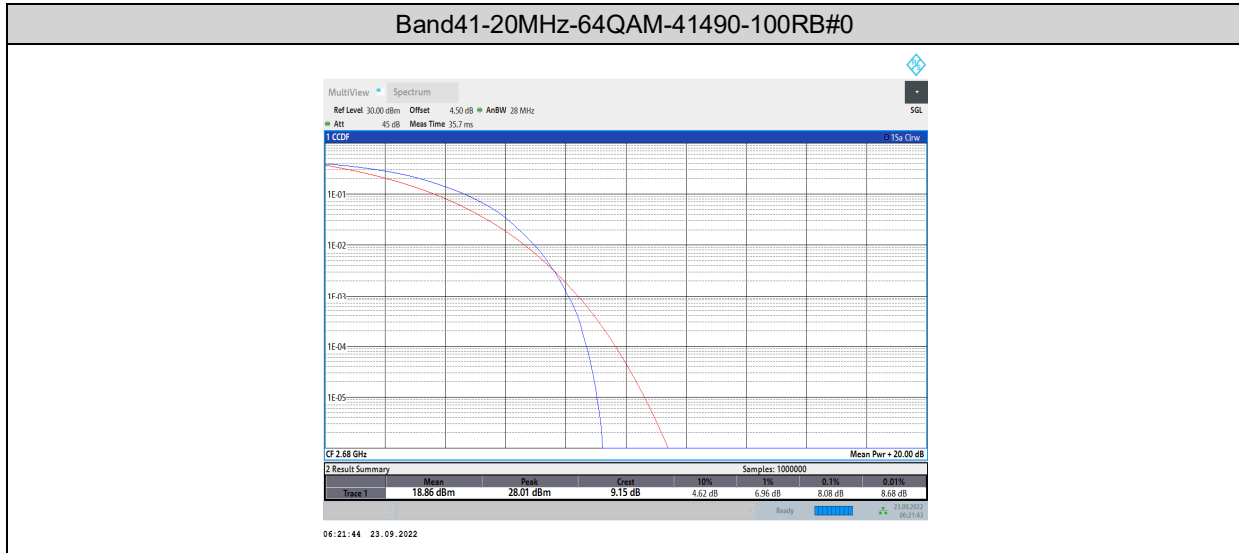
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Modulation Characteristics

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

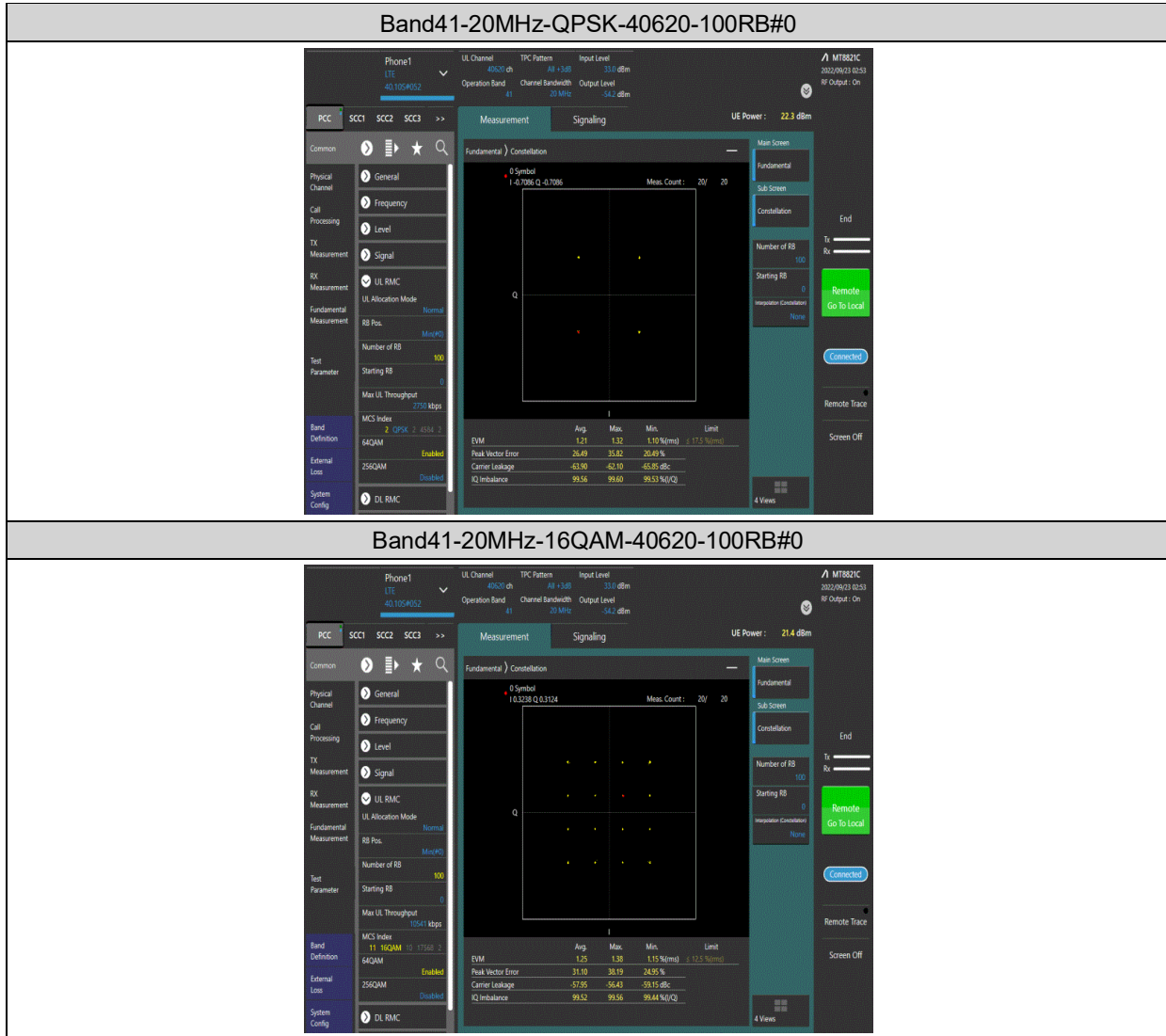


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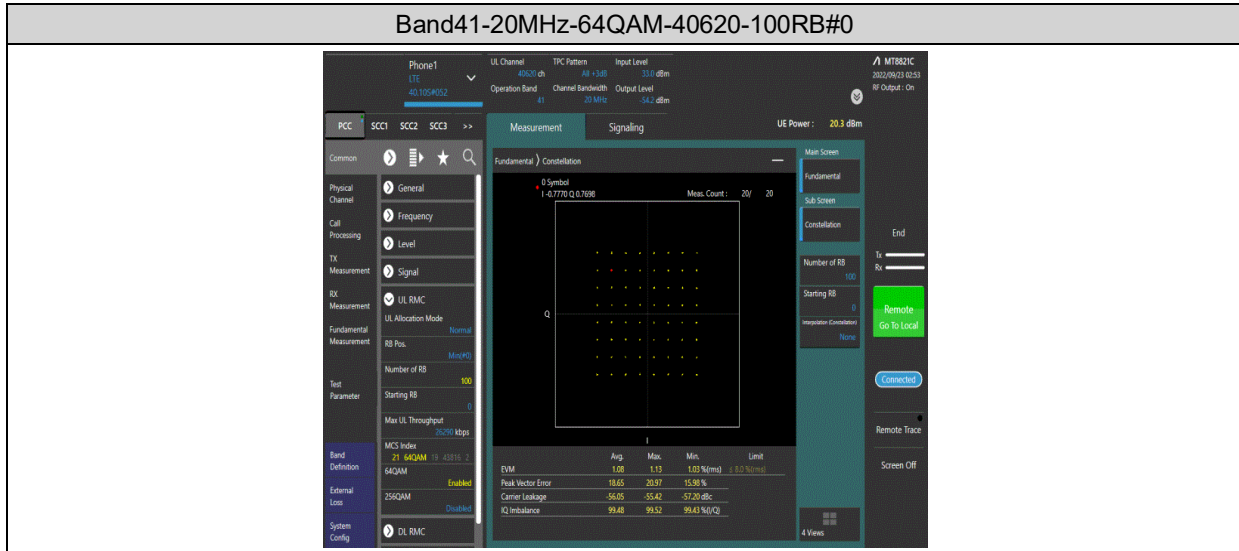
Test Graphs



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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band41	5MHz	QPSK	39675	25RB#0	4.469	4.88	PASS
Band41	5MHz	QPSK	40620	25RB#0	4.474	4.87	PASS
Band41	5MHz	QPSK	41565	25RB#0	4.475	4.89	PASS
Band41	5MHz	16QAM	39675	25RB#0	4.471	4.88	PASS
Band41	5MHz	16QAM	40620	25RB#0	4.474	4.89	PASS
Band41	5MHz	16QAM	41565	25RB#0	4.474	4.93	PASS
Band41	5MHz	64QAM	39675	25RB#0	4.478	4.86	PASS
Band41	5MHz	64QAM	40620	25RB#0	4.479	4.88	PASS
Band41	5MHz	64QAM	41565	25RB#0	4.478	4.87	PASS
Band41	10MHz	QPSK	39700	50RB#0	8.924	9.70	PASS
Band41	10MHz	QPSK	40620	50RB#0	8.925	9.66	PASS
Band41	10MHz	QPSK	41540	50RB#0	8.931	9.66	PASS
Band41	10MHz	16QAM	39700	50RB#0	8.914	9.60	PASS
Band41	10MHz	16QAM	40620	50RB#0	8.912	9.62	PASS
Band41	10MHz	16QAM	41540	50RB#0	8.917	9.66	PASS
Band41	10MHz	64QAM	39700	50RB#0	8.921	9.66	PASS
Band41	10MHz	64QAM	40620	50RB#0	8.927	9.62	PASS
Band41	10MHz	64QAM	41540	50RB#0	8.926	9.62	PASS
Band41	15MHz	QPSK	39725	75RB#0	13.466	14.82	PASS
Band41	15MHz	QPSK	40620	75RB#0	13.46	14.73	PASS
Band41	15MHz	QPSK	41515	75RB#0	13.462	14.82	PASS
Band41	15MHz	16QAM	39725	75RB#0	13.438	14.73	PASS
Band41	15MHz	16QAM	40620	75RB#0	13.439	14.76	PASS
Band41	15MHz	16QAM	41515	75RB#0	13.451	14.79	PASS
Band41	15MHz	64QAM	39725	75RB#0	13.414	14.70	PASS
Band41	15MHz	64QAM	40620	75RB#0	13.41	14.70	PASS
Band41	15MHz	64QAM	41515	75RB#0	13.413	14.70	PASS
Band41	20MHz	QPSK	39750	100RB#0	17.893	19.36	PASS
Band41	20MHz	QPSK	40620	100RB#0	17.878	19.32	PASS
Band41	20MHz	QPSK	41490	100RB#0	17.835	19.20	PASS
Band41	20MHz	16QAM	39750	100RB#0	17.826	19.24	PASS



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Rev.: 01

Page: 17 of 55

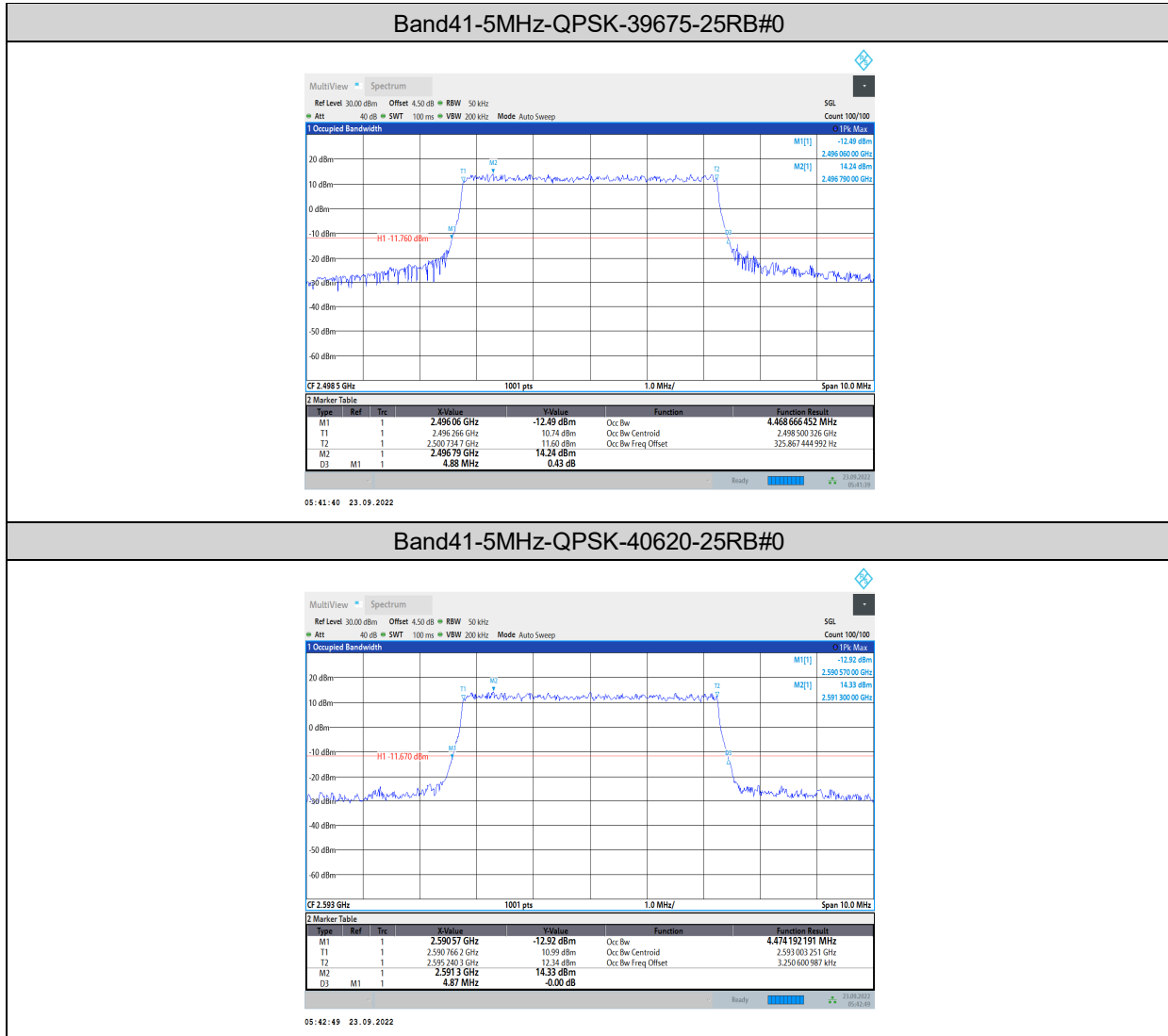
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Band41	20MHz	64QAM	39750	100RB#0	17.844	19.40	PASS
Band41	20MHz	64QAM	40620	100RB#0	17.86	19.36	PASS
Band41	20MHz	64QAM	41490	100RB#0	17.798	19.20	PASS



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Test Graphs

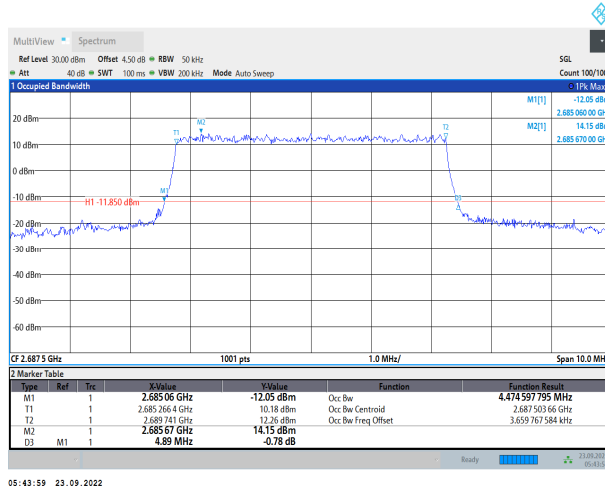


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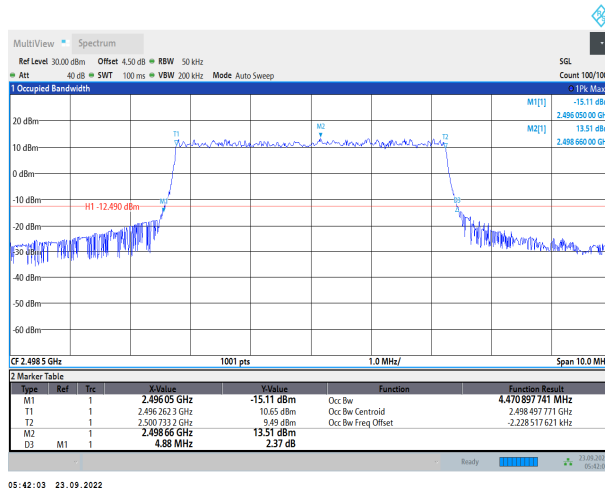
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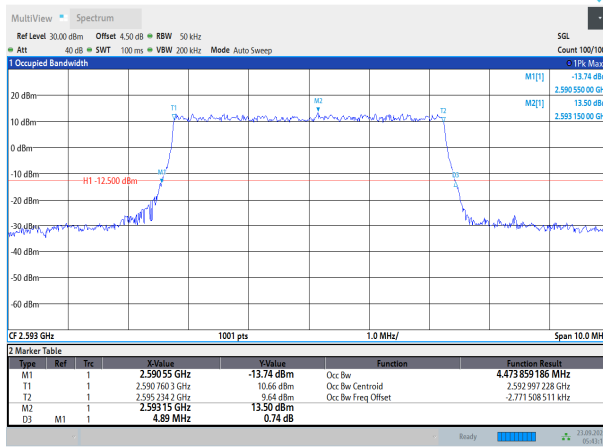


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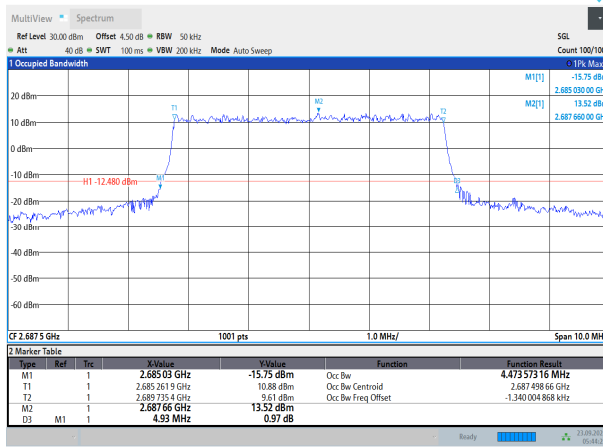
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Band41-5MHz-16QAM-40620-25RB#0



05:43:13 23.09.2022

Band41-5MHz-16QAM-41565-25RB#0



05:44:22 23.09.2022

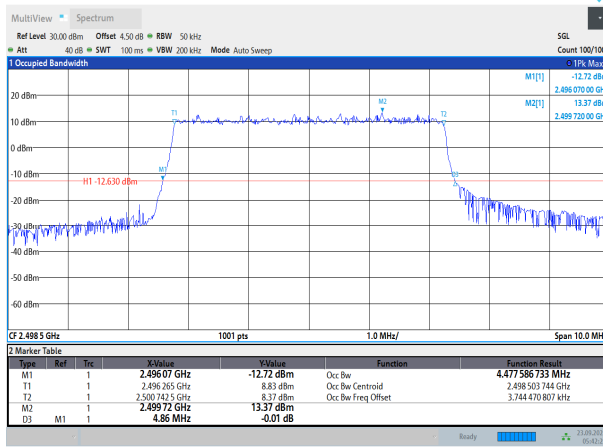


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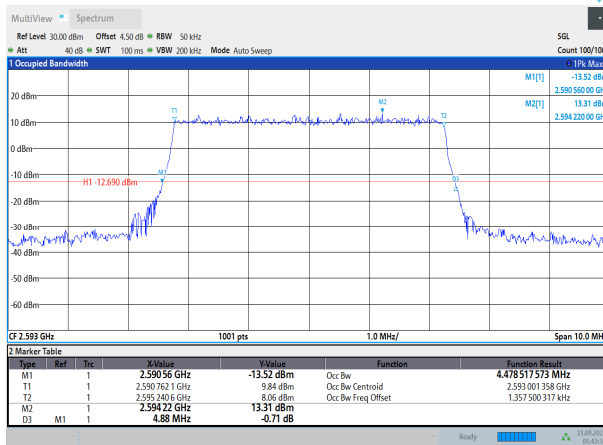
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Band41-5MHz-64QAM-39675-25RB#0



05:42:26 23.09.2022

Band41-5MHz-64QAM-40620-25RB#0



05:43:36 23.09.2022

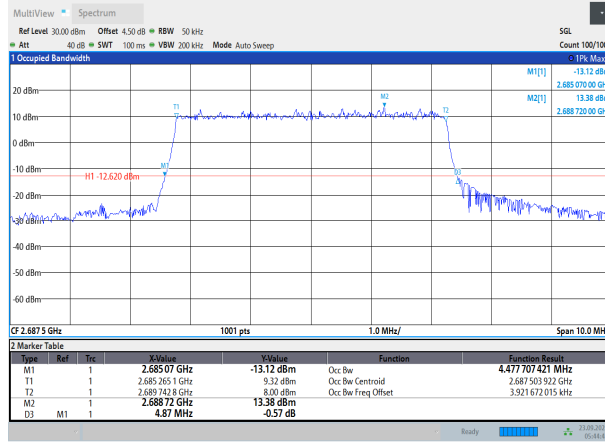


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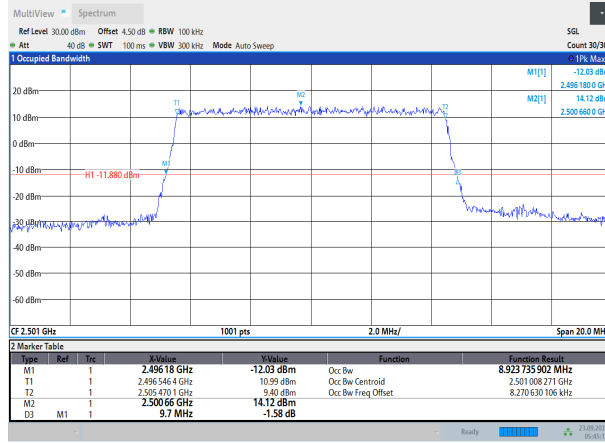
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Band41-5MHz-64QAM-41565-25RB#0



05:44:45 23.09.2022

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



05:45:17 23.09.2022

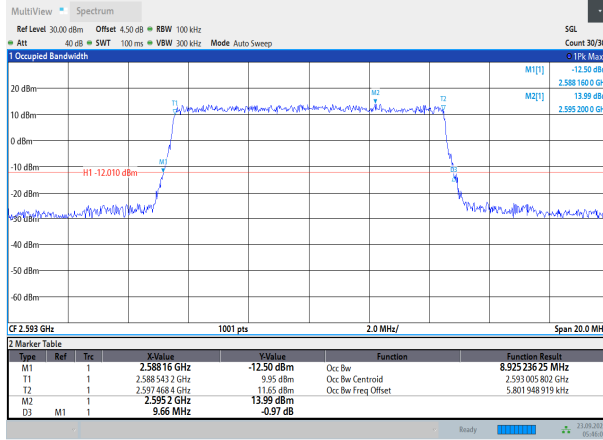


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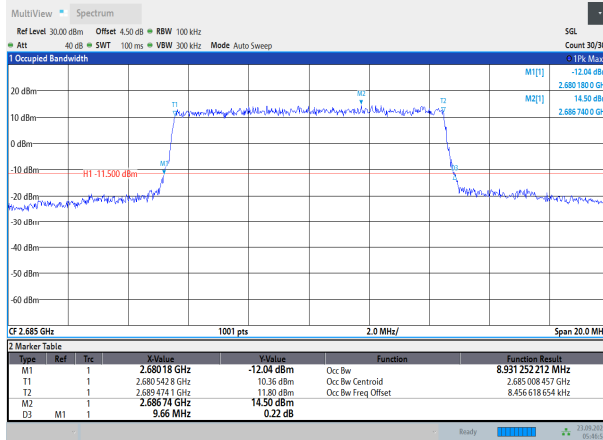
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Band41-10MHz-QPSK-40620-50RB#0



05:46:05 23.09.2022

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



05:46:54 23.09.2022

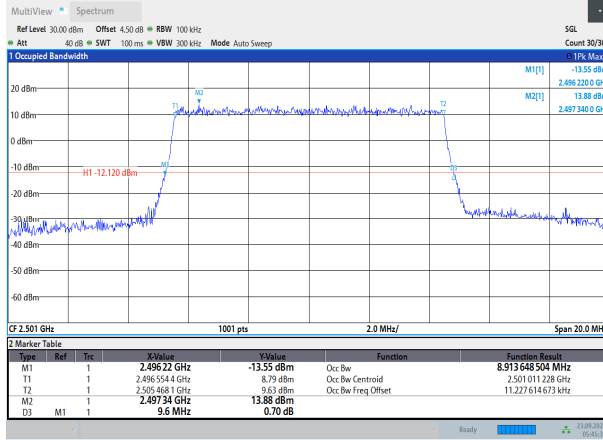


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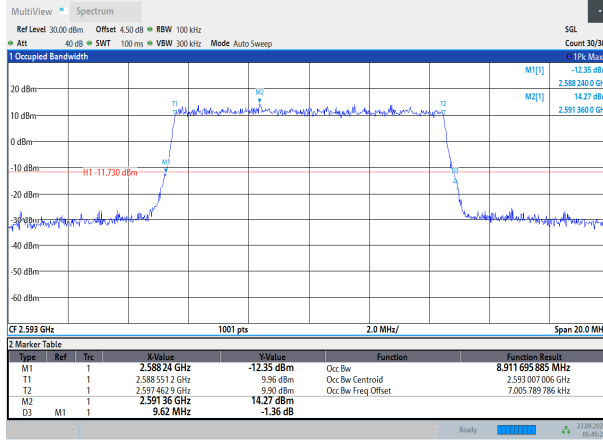
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Band41-10MHz-16QAM-39700-50RB#0



05:45:33 23.09.2022

Band41-10MHz-16QAM-40620-50RB#0



05:46:22 23.09.2022

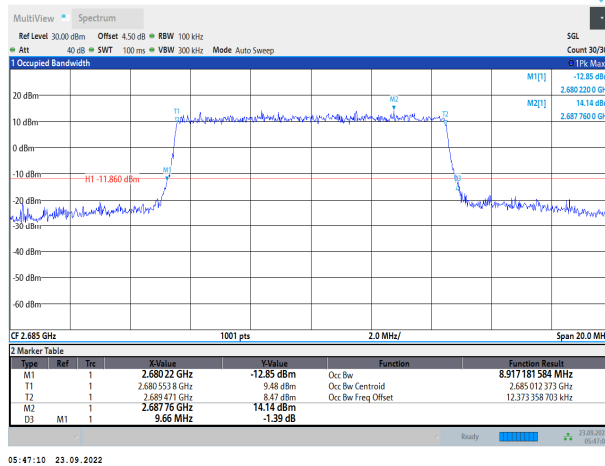


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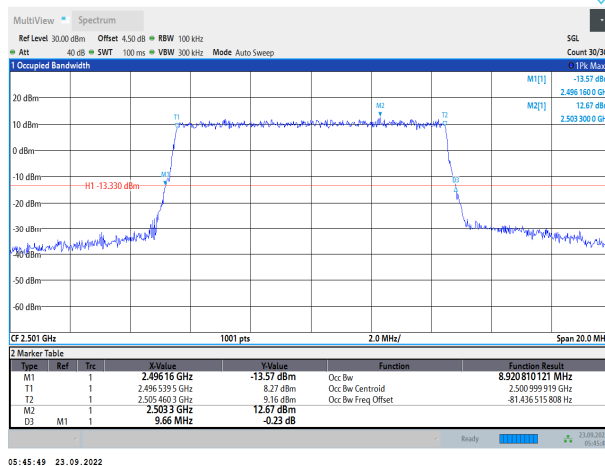
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Band41-10MHz-16QAM-41540-50RB#0



Band41-10MHz-64QAM-39700-50RB#0

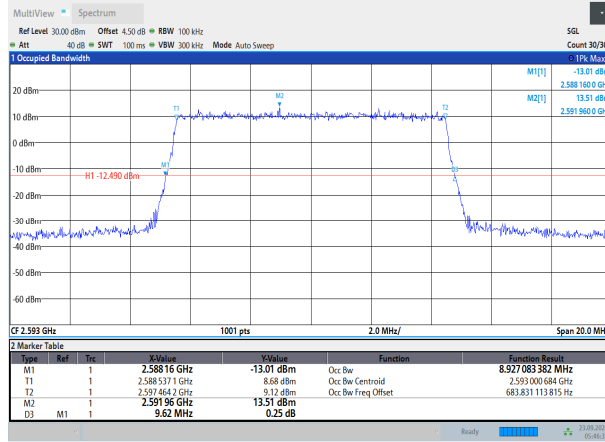


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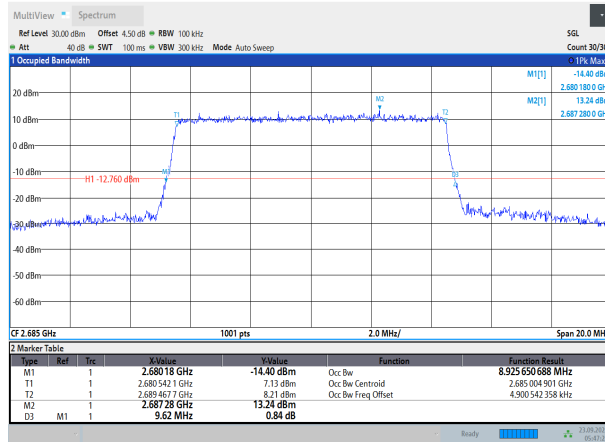
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Band41-10MHz-64QAM-40620-50RB#0



05:46:38 23.09.2022

Band41-10MHz-64QAM-41540-50RB#0



05:47:26 23.09.2022



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



Band41-15MHz-QPSK-40620-75RB#0

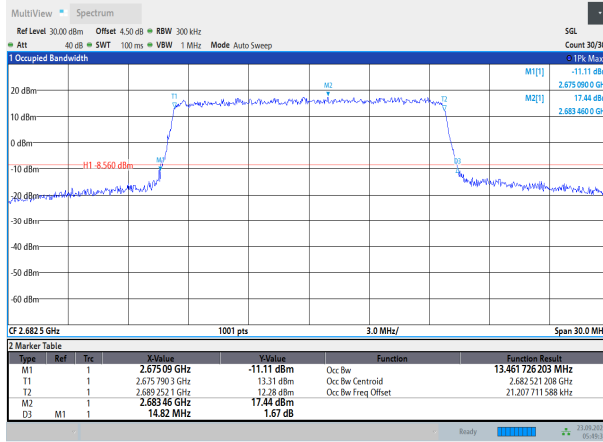


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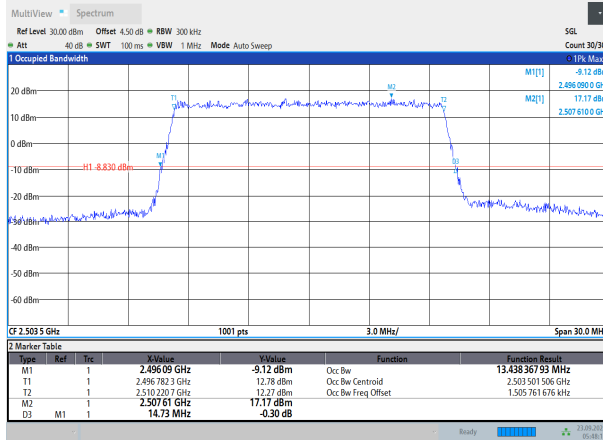
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Band41-15MHz-QPSK-41515-75RB#0



05:49:35 23.09.2022

Band41-15MHz-16QAM-39725-75RB#0



05:48:14 23.09.2022

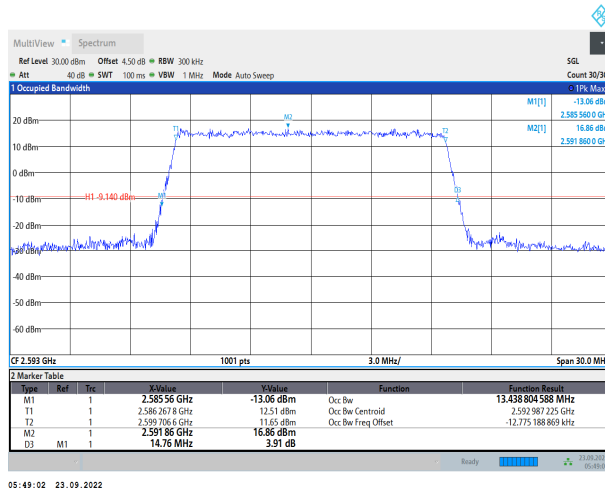


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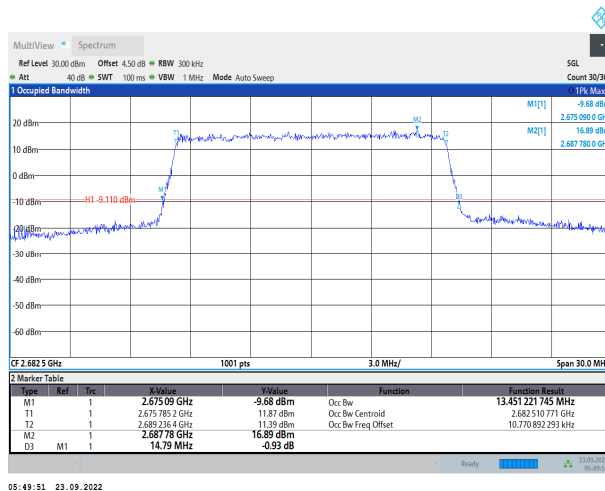
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Band41-15MHz-16QAM-40620-75RB#0



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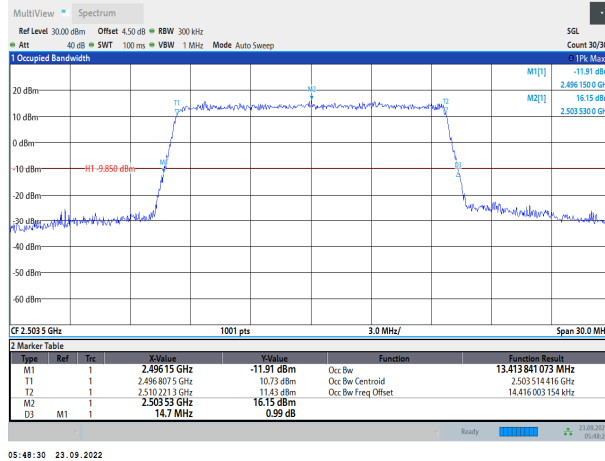


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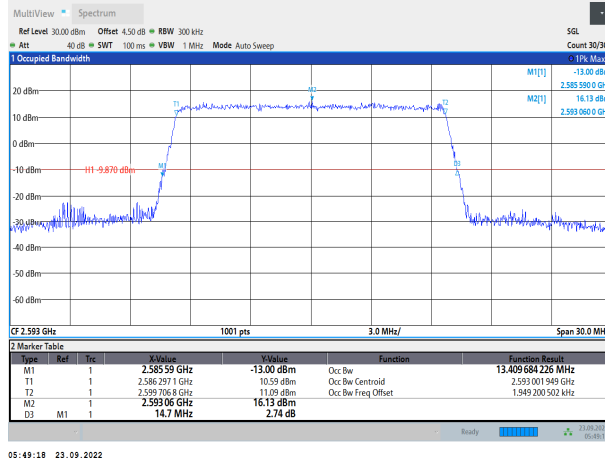
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Band41-15MHz-64QAM-39725-75RB#0



Band41-15MHz-64QAM-40620-75RB#0

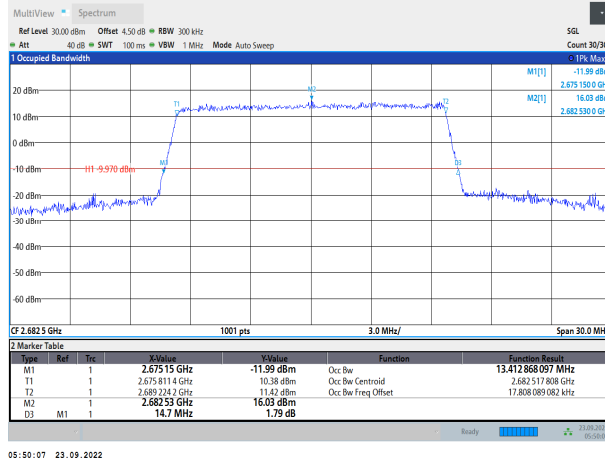


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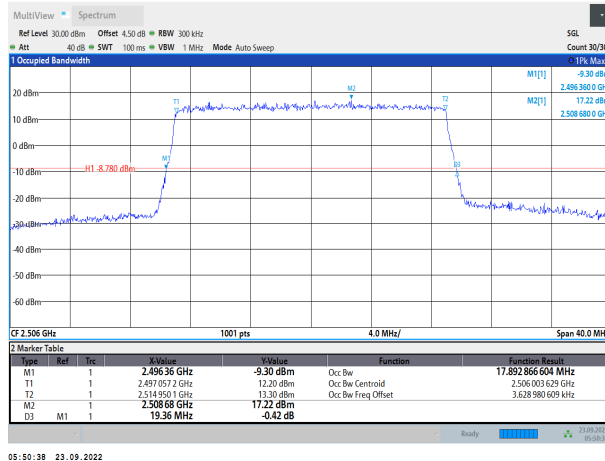
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Band41-15MHz-64QAM-41515-75RB#0



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

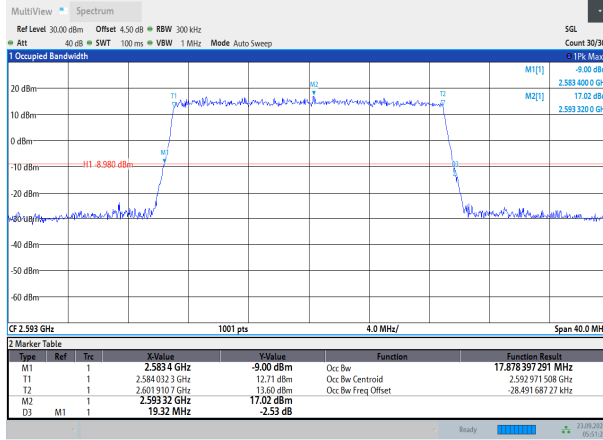


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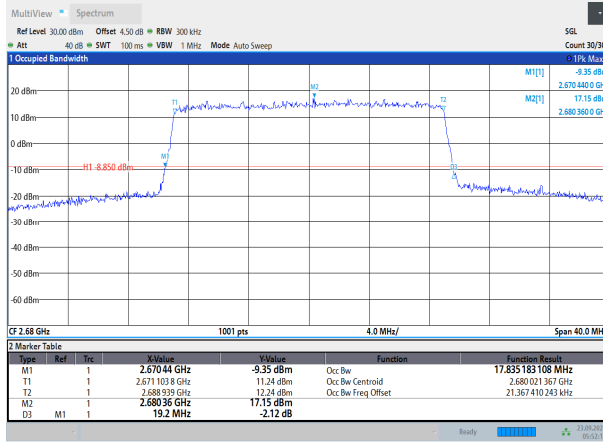
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Band41-20MHz-QPSK-40620-100RB#0



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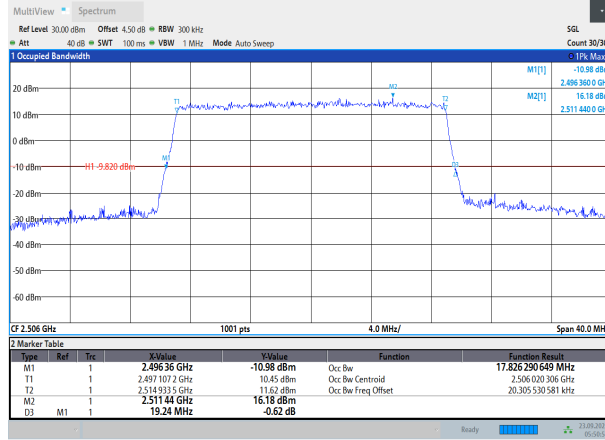


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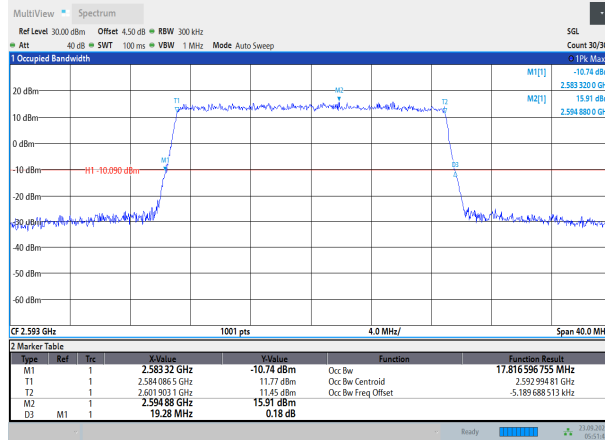
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Band41-20MHz-16QAM-39750-100RB#0



05:50:54 23.09.2022

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



05:51:43 23.09.2022

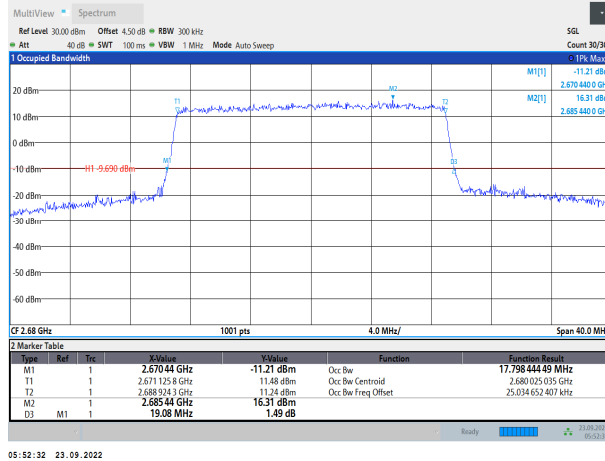


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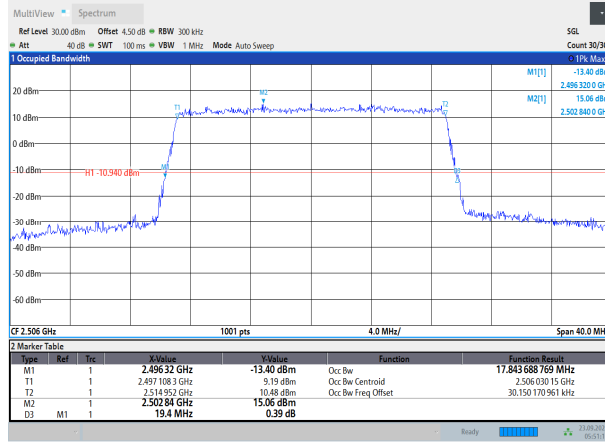
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Band41-20MHz-16QAM-41490-100RB#0



05:52:32 23.09.2022

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



05:51:11 23.09.2022

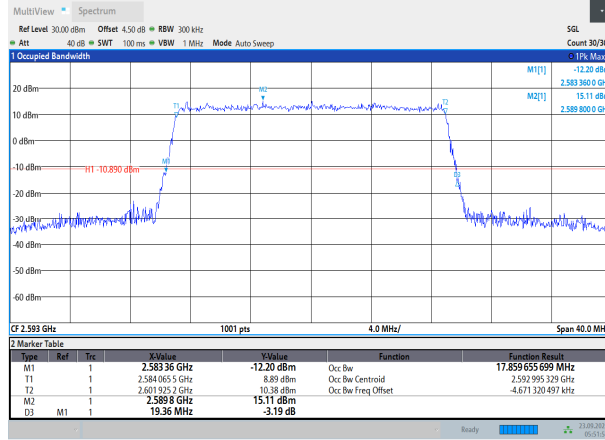


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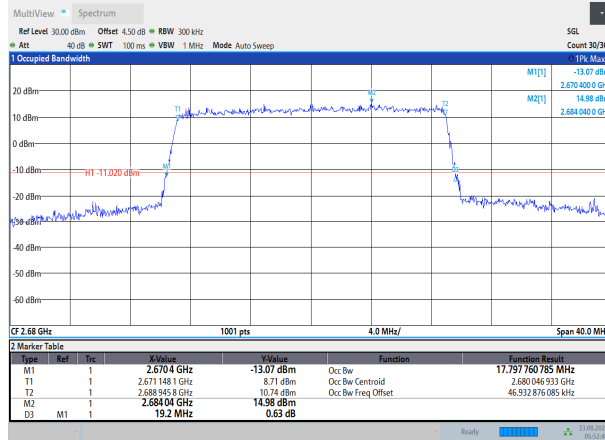
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Band41-20MHz-64QAM-40620-100RB#0



05:51:59 23.09.2022

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



05:52:48 23.09.2022



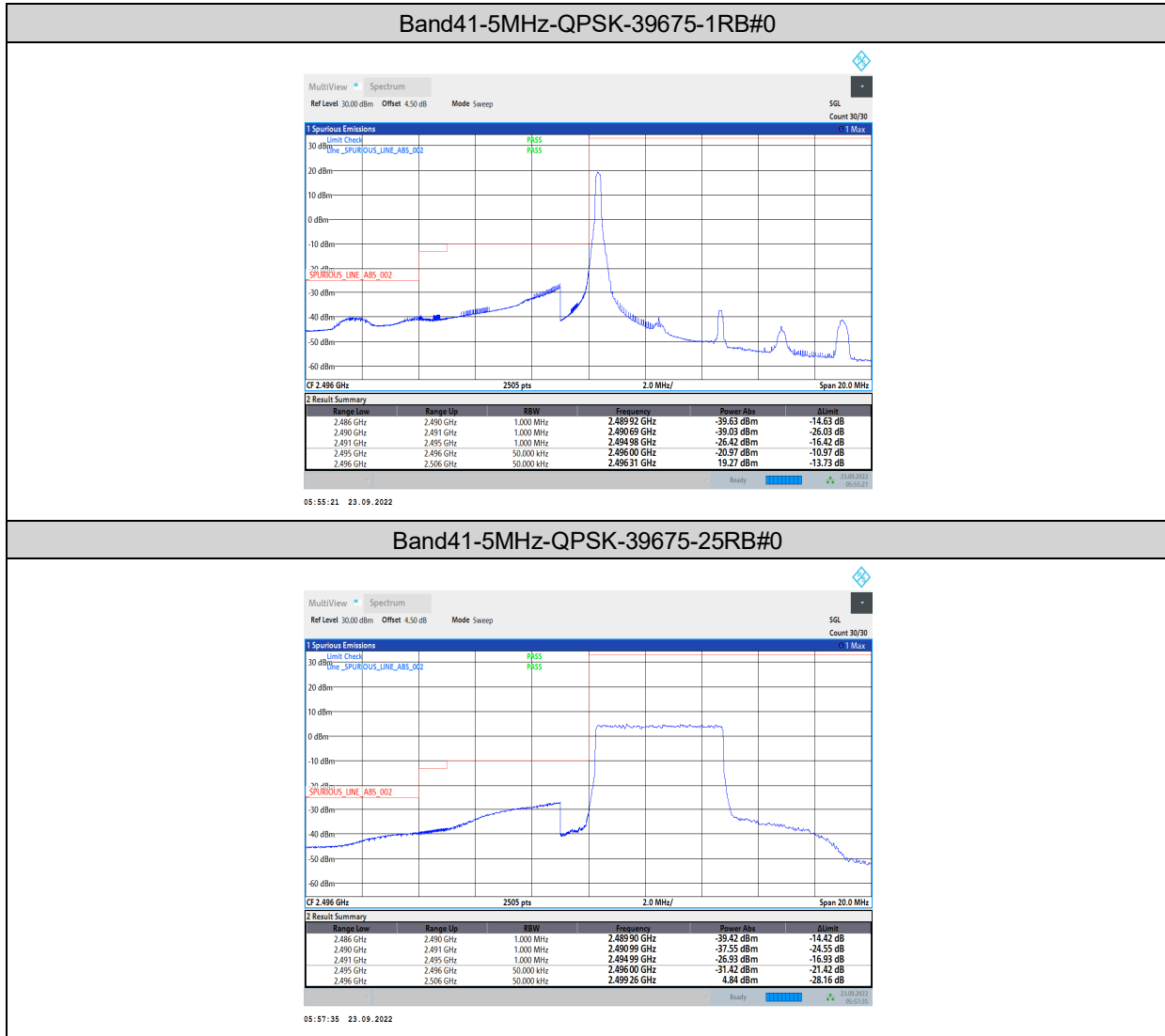
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Band Edge

Test Graphs

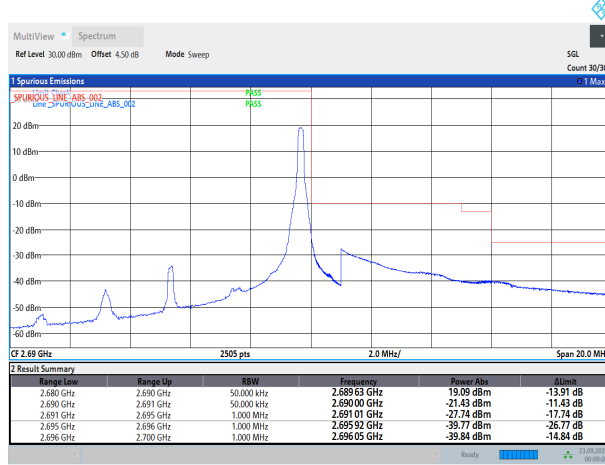


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Band41-5MHz-QPSK-41565-1RB#24



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

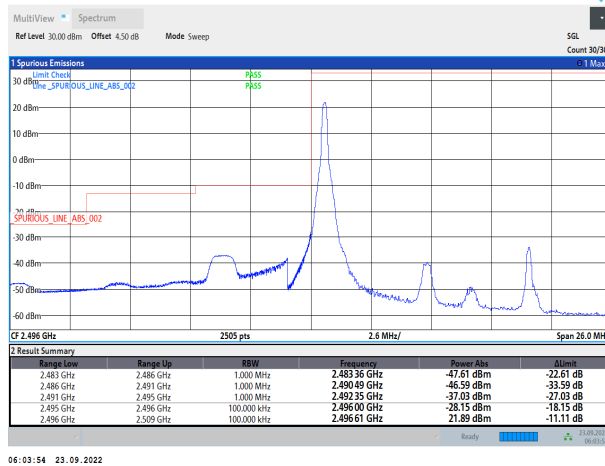


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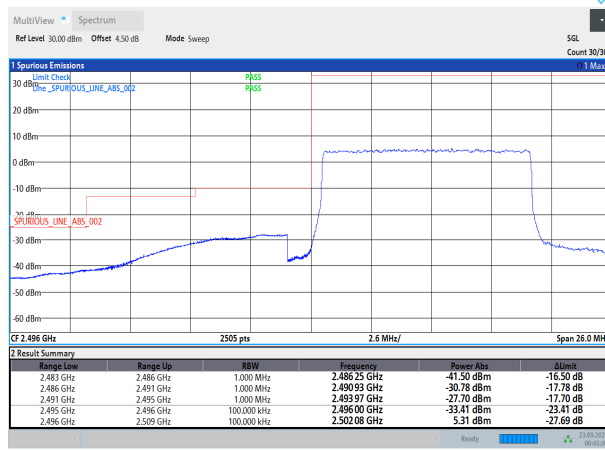
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Band41-10MHz-QPSK-39700-1RB#0



06:03:54 23.09.2022

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



06:05:08 23.09.2022

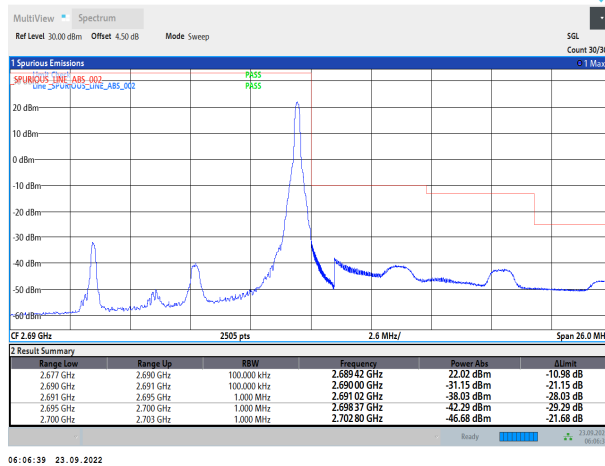


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Band41-10MHz-QPSK-41540-1RB#49



06:06:39 23.09.2022

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



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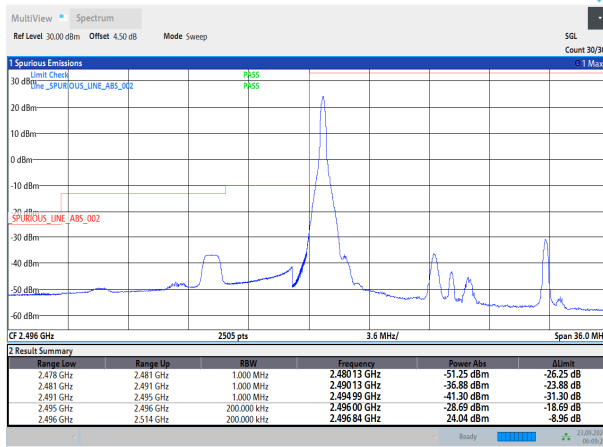


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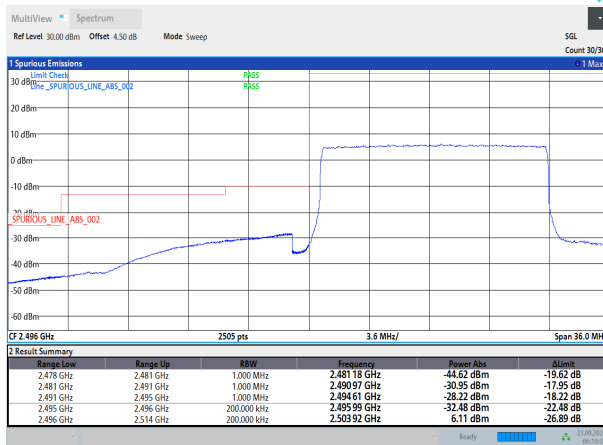
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Band41-15MHz-QPSK-39725-1RB#0



06:09:25 23. 09. 2022

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



06:10:40 23. 09. 2022

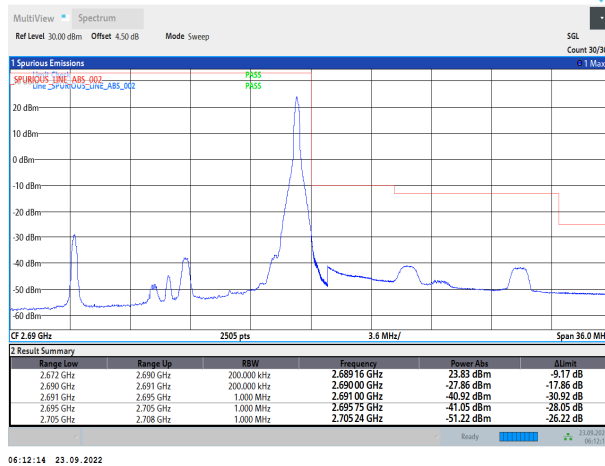


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Band41-15MHz-QPSK-41515-1RB#74



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



06:13:28 23. 09. 2022

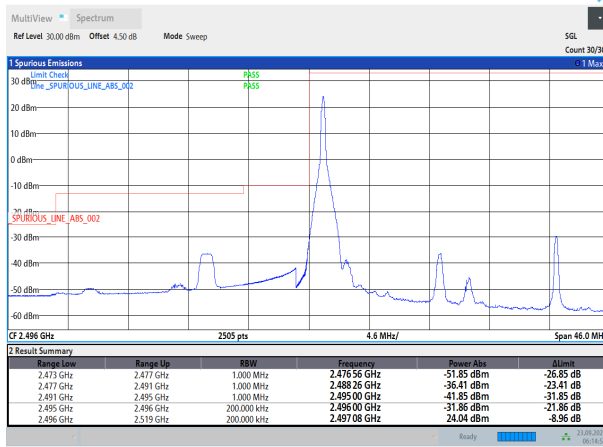


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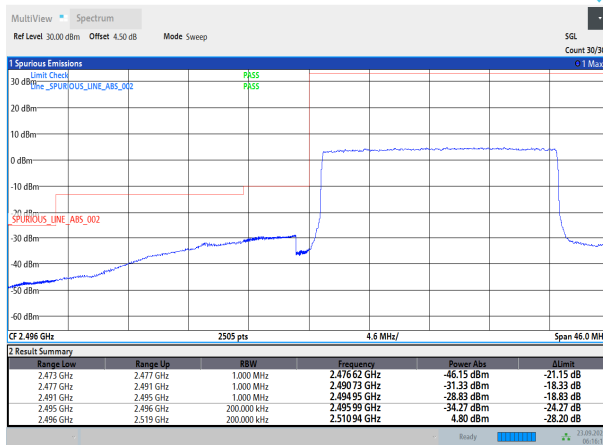
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Band41-20MHz-QPSK-39750-1RB#0



06:14:59 23. 09. 2022

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



06:16:14 23. 09. 2022

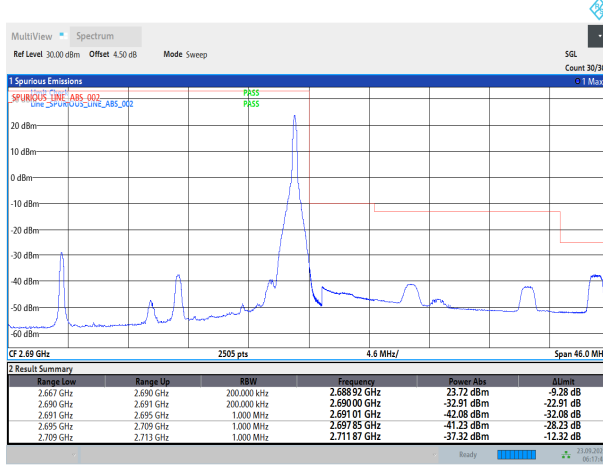


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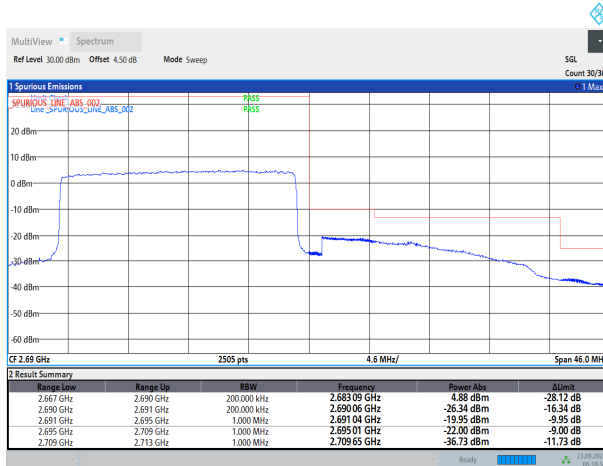
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Band41-20MHz-QPSK-41490-1RB#99



06:17:45 23.09.2022

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



06:19:00 23.09.2022



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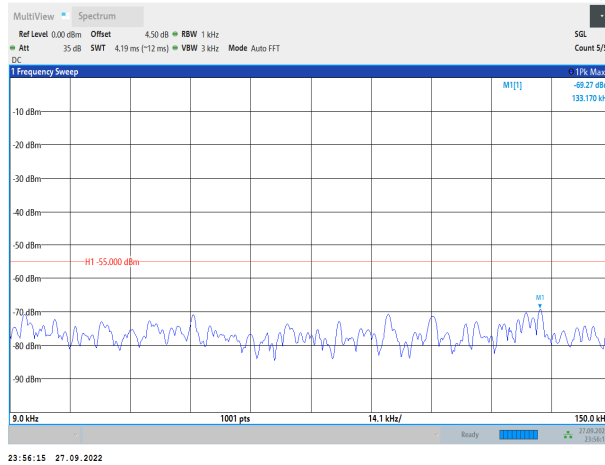
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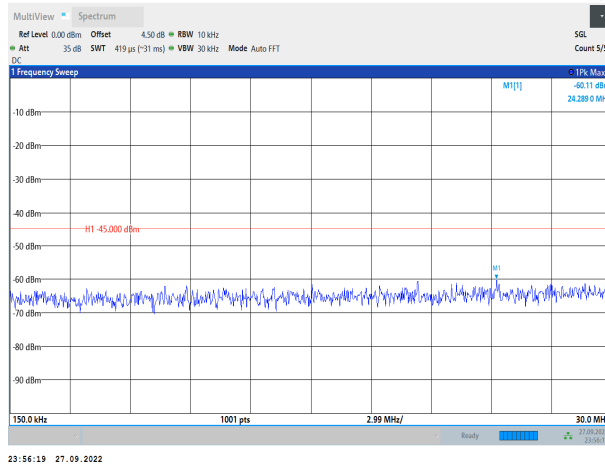
Conducted Spurious Emission

Test Graphs

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



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

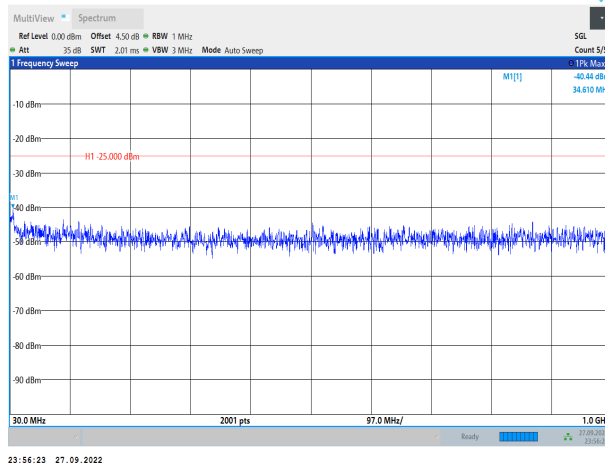


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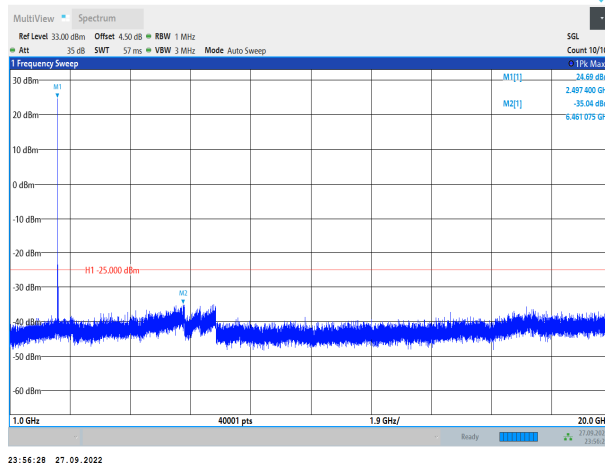
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Band41-20MHz-QPSK-39750-1RB#0-Range3:30~1000MHz



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

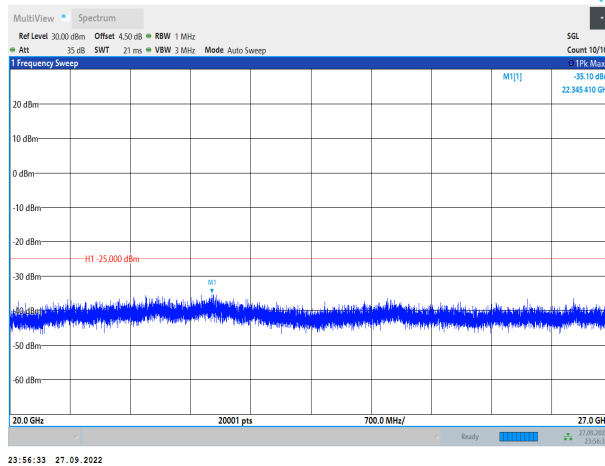


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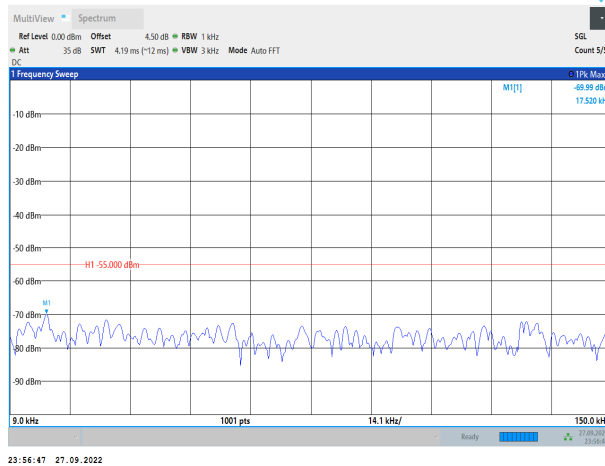
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Band41-20MHz-QPSK-39750-1RB#0-Range5:20000~27000MHz



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

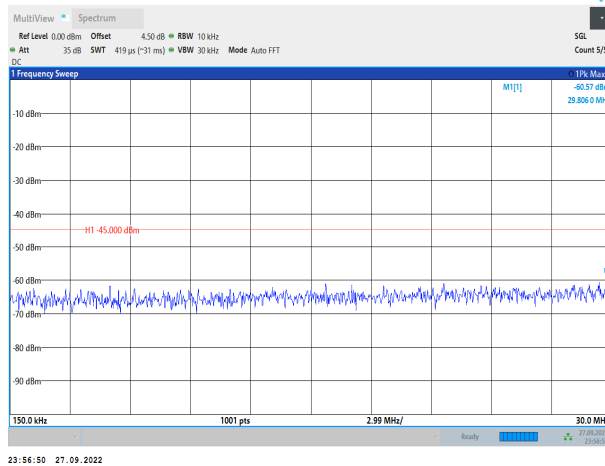


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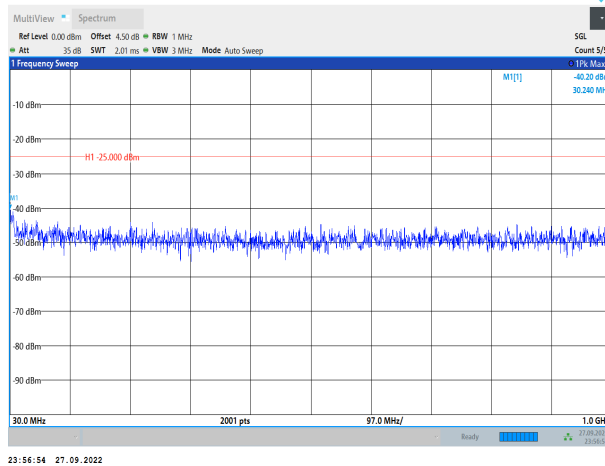
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Band41-20MHz-QPSK-40620-1RB#0-Range2:0.15~30MHz



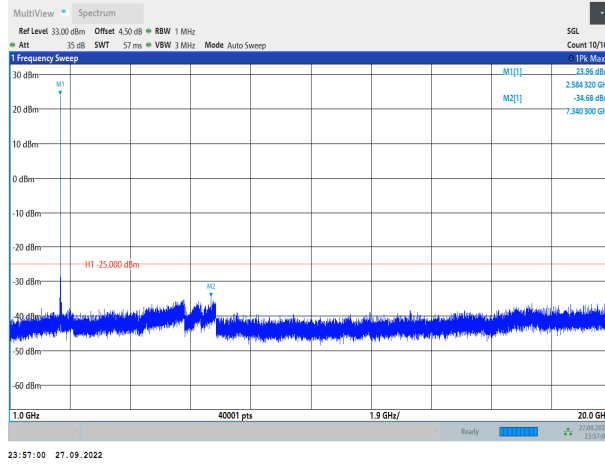
Band41-20MHz-QPSK-40620-1RB#0-Range3:30~1000MHz



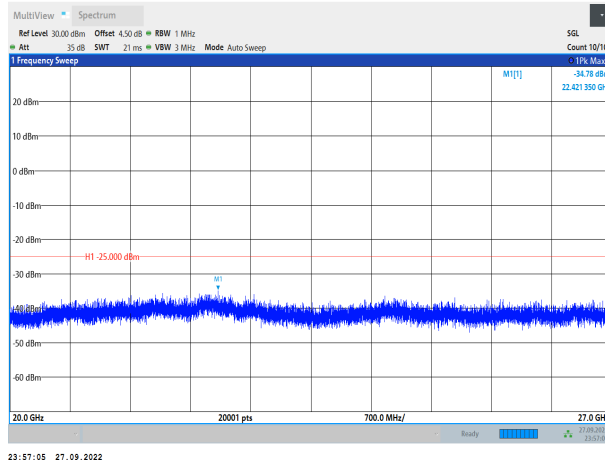
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Band41-20MHz-QPSK-40620-1RB#0-Range4:1000~20000MHz



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

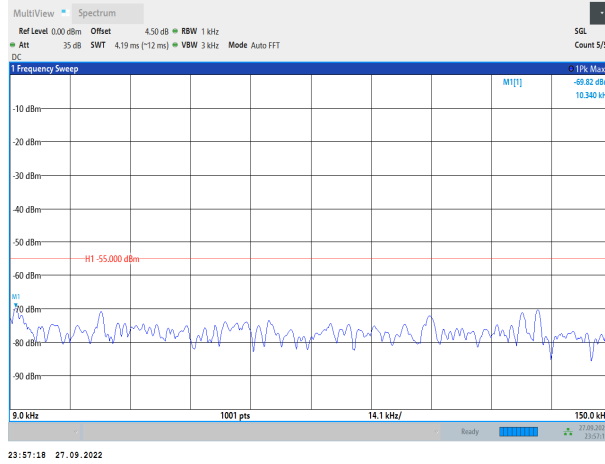


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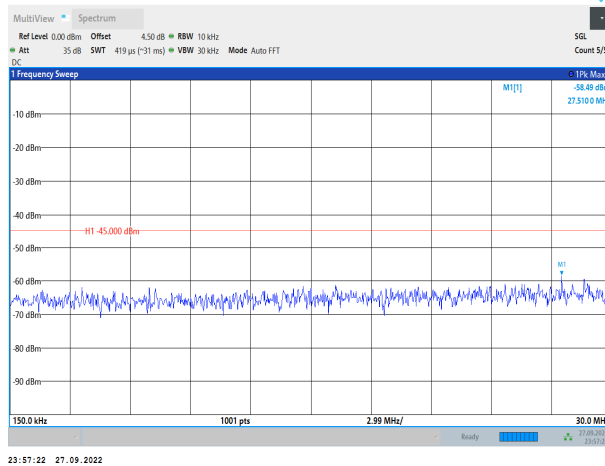
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Band41-20MHz-QPSK-41490-1RB#0-Range1:0.009~0.15MHz



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

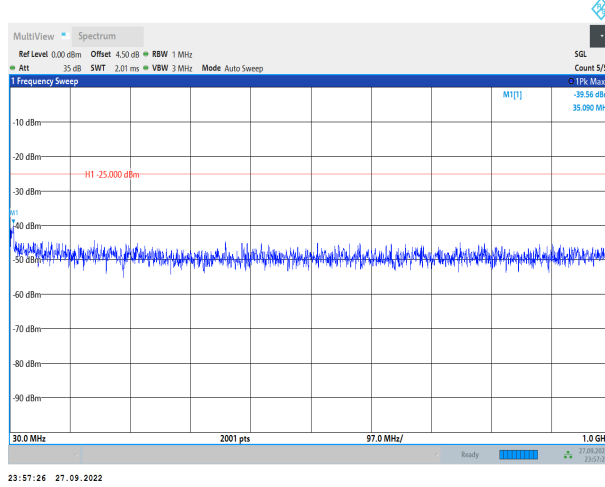


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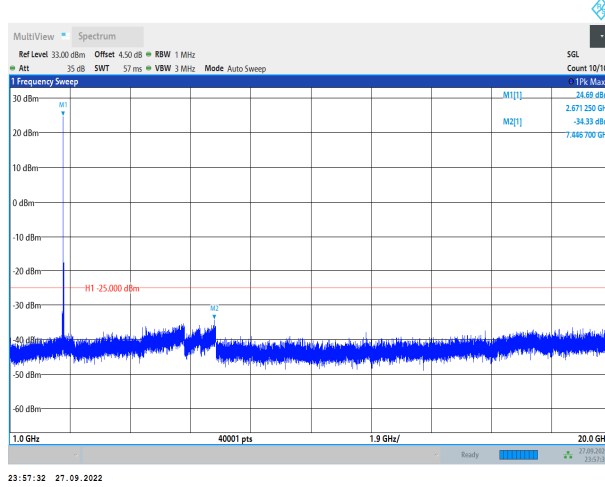
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Band41-20MHz-QPSK-41490-1RB#0-Range3:30~1000MHz



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

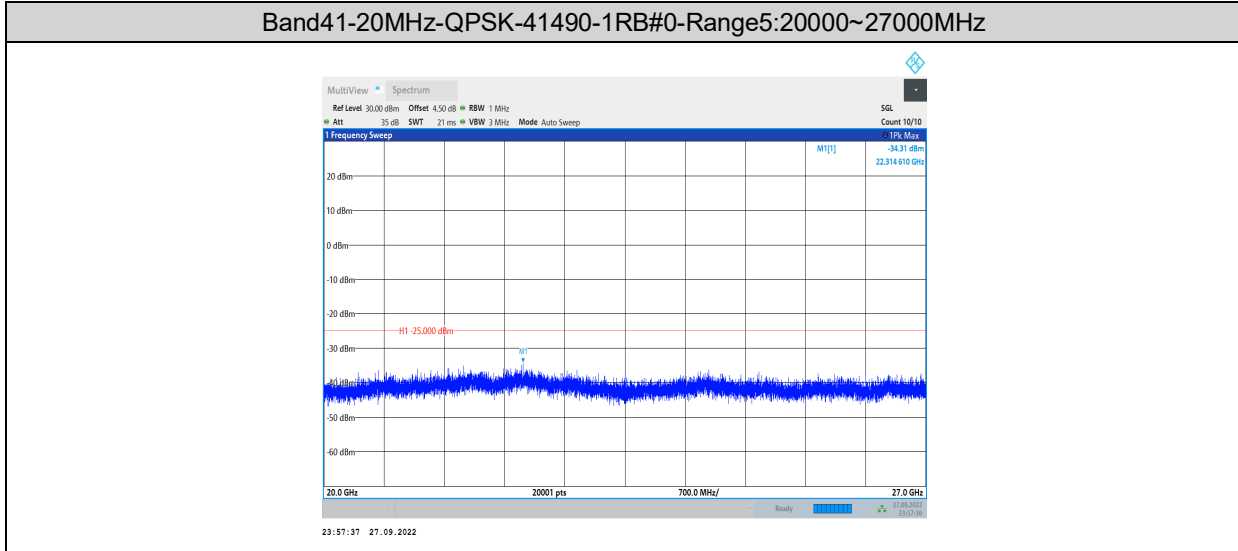


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Band41-20MHz-QPSK-41490-1RB#0-Range5:20000~27000MHz



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Field Strength of Spurious Radiation

Test Band = LTE Band 41_ 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	58.54	-45.63	32.86	-49.49	-25.00	24.49	163	313	Horizontal
2	7491.2700	46.11	-43.16	36.44	-55.87	-25.00	30.87	216	0	Horizontal
3	9988.3600	44.60	-39.25	38.47	-51.44	-25.00	26.44	228	313	Horizontal
4	12485.4500	29.38	-37.04	39.16	-63.76	-25.00	38.76	175	254	Horizontal
5	14982.5400	28.64	-34.64	39.26	-62.00	-25.00	37.00	192	329	Horizontal
6	17479.6300	31.23	-35.10	39.13	-60.00	-25.00	35.00	119	102	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	54.86	-45.63	32.86	-53.17	-25.00	28.17	224	87	Vertical
2	7491.2700	53.36	-43.16	36.44	-48.62	-25.00	23.62	156	270	Vertical
3	9988.3600	51.89	-39.25	38.47	-44.15	-25.00	19.15	137	0	Vertical
4	12485.4500	30.32	-37.04	39.16	-62.82	-25.00	37.82	182	316	Vertical
5	14982.5400	29.81	-34.64	39.26	-60.83	-25.00	35.83	251	1	Vertical
6	17479.6300	31.25	-35.10	39.13	-59.98	-25.00	34.98	263	150	Vertical



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Test Band = LTE Band 41_ 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	4102.5	51.24	-45.76	30.95	-58.83	-25.00	33.83	159	269	Horizontal
2	5168.1800	46.01	-45.31	32.97	-61.59	-25.00	36.59	163	13	Horizontal
3	7752.2700	42.20	-42.69	36.69	-59.06	-25.00	34.06	214	146	Horizontal
4	10336.3600	34.48	-39.06	38.84	-61.00	-25.00	36.00	275	0	Horizontal
5	12920.4500	30.29	-37.16	39.75	-62.38	-25.00	37.38	187	283	Horizontal
6	15504.5400	29.03	-35.35	38.57	-63.01	-25.00	38.01	192	117	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	4218	50.96	-45.73	31.14	-58.89	-25.00	33.89	163	86	Vertical
2	5168.1800	46.45	-45.31	32.97	-61.15	-25.00	36.15	192	224	Vertical
3	7752.2700	42.46	-42.69	36.69	-58.80	-25.00	33.80	187	346	Vertical
4	10336.3600	35.37	-39.06	38.84	-60.11	-25.00	35.11	154	41	Vertical
5	12920.4500	31.62	-37.16	39.75	-61.05	-25.00	36.05	172	346	Vertical
6	15504.5400	29.31	-35.35	38.57	-62.73	-25.00	37.73	163	269	Vertical



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Test Band = LTE Band 41_ 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	4342.5	52.57	-45.66	31.39	-56.96	-25.00	31.96	172	331	Horizontal
2	5255.1800	69.92	-45.18	32.94	-37.58	-25.00	12.58	159	38	Horizontal
3	7882.7700	48.31	-42.73	36.88	-52.81	-25.00	27.81	224	86	Horizontal
4	10510.3600	44.41	-38.77	38.97	-50.64	-25.00	25.64	263	286	Horizontal
5	13137.9500	30.47	-37.08	39.89	-61.97	-25.00	36.97	172	0	Horizontal
6	15765.5400	29.01	-33.25	38.24	-61.25	-25.00	36.25	155	357	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	4453.5	50.21	-45.76	31.56	-59.25	-25.00	34.25	167	101	Vertical
2	5255.1800	66.96	-45.18	32.94	-40.54	-25.00	15.54	215	238	Vertical
3	7882.7700	54.00	-42.73	36.88	-47.12	-25.00	22.12	224	315	Vertical
4	10510.3600	51.30	-38.77	38.97	-43.75	-25.00	18.75	186	5	Vertical
5	13137.9500	30.06	-37.08	39.89	-62.38	-25.00	37.38	273	145	Vertical
6	15765.5400	29.05	-33.25	38.24	-61.21	-25.00	36.21	257	1	Vertical

Remark:

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

AF = Antenna Factor(dB/m)

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

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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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	16.50	0.006363	PASS
Band41	20MHz	QPSK	40620	100RB#0	VN	NT	3.50	0.001350	PASS
Band41	20MHz	QPSK	40620	100RB#0	VH	NT	3.80	0.001465	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band41	20MHz	QPSK	40620	100RB#0	NV	-30	12.50	0.004821	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-20	-2.20	-0.000848	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-10	4.30	0.001658	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	0	-0.50	-0.000193	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	10	13.20	0.005091	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	20	13.40	0.005168	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	30	1.00	0.000386	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	40	8.40	0.003239	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	50	3.40	0.001311	PASS

---End of Attachment---



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