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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	25.07	33	PASS
Band41	5MHz	QPSK	39675	1RB#12	22.76	25.16	33	PASS
Band41	5MHz	QPSK	39675	1RB#24	22.68	25.08	33	PASS
Band41	5MHz	QPSK	39675	25RB#0	21.79	24.19	33	PASS
Band41	5MHz	QPSK	40620	1RB#0	23.41	25.81	33	PASS
Band41	5MHz	QPSK	40620	1RB#12	23.04	25.44	33	PASS
Band41	5MHz	QPSK	40620	1RB#24	23.02	25.42	33	PASS
Band41	5MHz	QPSK	40620	25RB#0	22.08	24.48	33	PASS
Band41	5MHz	QPSK	41565	1RB#0	22.96	25.36	33	PASS
Band41	5MHz	QPSK	41565	1RB#12	22.83	25.23	33	PASS
Band41	5MHz	QPSK	41565	1RB#24	22.72	25.12	33	PASS
Band41	5MHz	QPSK	41565	25RB#0	21.82	24.22	33	PASS
Band41	5MHz	16QAM	39675	1RB#0	21.7	24.1	33	PASS
Band41	5MHz	16QAM	39675	1RB#12	21.75	24.15	33	PASS
Band41	5MHz	16QAM	39675	1RB#24	21.76	24.16	33	PASS
Band41	5MHz	16QAM	39675	25RB#0	20.75	23.15	33	PASS
Band41	5MHz	16QAM	40620	1RB#0	21.9	24.3	33	PASS
Band41	5MHz	16QAM	40620	1RB#12	22.03	24.43	33	PASS
Band41	5MHz	16QAM	40620	1RB#24	21.9	24.3	33	PASS
Band41	5MHz	16QAM	40620	25RB#0	21.05	23.45	33	PASS
Band41	5MHz	16QAM	41565	1RB#0	21.72	24.12	33	PASS
Band41	5MHz	16QAM	41565	1RB#12	21.84	24.24	33	PASS
Band41	5MHz	16QAM	41565	1RB#24	21.68	24.08	33	PASS
Band41	5MHz	16QAM	41565	25RB#0	20.79	23.19	33	PASS
Band41	5MHz	64QAM	39675	1RB#0	20.82	23.22	33	PASS
Band41	5MHz	64QAM	39675	1RB#12	20.87	23.27	33	PASS



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Band41	5MHz	64QAM	39675	1RB#24	20.72	23.12	33	PASS
Band41	5MHz	64QAM	39675	25RB#0	19.78	22.18	33	PASS
Band41	5MHz	64QAM	40620	1RB#0	21.01	23.41	33	PASS
Band41	5MHz	64QAM	40620	1RB#12	21.11	23.51	33	PASS
Band41	5MHz	64QAM	40620	1RB#24	21.13	23.53	33	PASS
Band41	5MHz	64QAM	40620	25RB#0	20.06	22.46	33	PASS
Band41	5MHz	64QAM	41565	1RB#0	20.81	23.21	33	PASS
Band41	5MHz	64QAM	41565	1RB#12	20.9	23.3	33	PASS
Band41	5MHz	64QAM	41565	1RB#24	20.73	23.13	33	PASS
Band41	5MHz	64QAM	41565	25RB#0	19.83	22.23	33	PASS
Band41	5MHz	256QAM	39675	1RB#0	17.46	19.86	33	PASS
Band41	5MHz	256QAM	39675	1RB#12	17.7	20.1	33	PASS
Band41	5MHz	256QAM	39675	1RB#24	17.65	20.05	33	PASS
Band41	5MHz	256QAM	39675	25RB#0	17.77	20.17	33	PASS
Band41	5MHz	256QAM	40620	1RB#0	17.96	20.36	33	PASS
Band41	5MHz	256QAM	40620	1RB#12	18.11	20.51	33	PASS
Band41	5MHz	256QAM	40620	1RB#24	18.03	20.43	33	PASS
Band41	5MHz	256QAM	40620	25RB#0	18.1	20.5	33	PASS
Band41	5MHz	256QAM	41565	1RB#0	17.7	20.1	33	PASS
Band41	5MHz	256QAM	41565	1RB#12	17.88	20.28	33	PASS
Band41	5MHz	256QAM	41565	1RB#24	17.73	20.13	33	PASS
Band41	5MHz	256QAM	41565	25RB#0	17.83	20.23	33	PASS
Band41	10MHz	QPSK	39700	1RB#0	22.7	25.1	33	PASS
Band41	10MHz	QPSK	39700	1RB#24	22.72	25.12	33	PASS
Band41	10MHz	QPSK	39700	1RB#49	22.66	25.06	33	PASS
Band41	10MHz	QPSK	39700	50RB#0	21.79	24.19	33	PASS
Band41	10MHz	QPSK	40620	1RB#0	22.52	24.92	33	PASS
Band41	10MHz	QPSK	40620	1RB#24	23.01	25.41	33	PASS
Band41	10MHz	QPSK	40620	1RB#49	22.96	25.36	33	PASS
Band41	10MHz	QPSK	40620	50RB#0	22.08	24.48	33	PASS
Band41	10MHz	QPSK	41540	1RB#0	22.45	24.85	33	PASS
Band41	10MHz	QPSK	41540	1RB#24	22.78	25.18	33	PASS



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Band41	10MHz	QPSK	41540	1RB#49	22.74	25.14	33	PASS
Band41	10MHz	QPSK	41540	50RB#0	21.86	24.26	33	PASS
Band41	10MHz	16QAM	39700	1RB#0	21.67	24.07	33	PASS
Band41	10MHz	16QAM	39700	1RB#24	21.75	24.15	33	PASS
Band41	10MHz	16QAM	39700	1RB#49	21.65	24.05	33	PASS
Band41	10MHz	16QAM	39700	50RB#0	20.78	23.18	33	PASS
Band41	10MHz	16QAM	40620	1RB#0	21.85	24.25	33	PASS
Band41	10MHz	16QAM	40620	1RB#24	21.99	24.39	33	PASS
Band41	10MHz	16QAM	40620	1RB#49	22.02	24.42	33	PASS
Band41	10MHz	16QAM	40620	50RB#0	21.07	23.47	33	PASS
Band41	10MHz	16QAM	41540	1RB#0	21.8	24.2	33	PASS
Band41	10MHz	16QAM	41540	1RB#24	21.78	24.18	33	PASS
Band41	10MHz	16QAM	41540	1RB#49	21.67	24.07	33	PASS
Band41	10MHz	16QAM	41540	50RB#0	20.86	23.26	33	PASS
Band41	10MHz	64QAM	39700	1RB#0	20.71	23.11	33	PASS
Band41	10MHz	64QAM	39700	1RB#24	20.8	23.2	33	PASS
Band41	10MHz	64QAM	39700	1RB#49	20.78	23.18	33	PASS
Band41	10MHz	64QAM	39700	50RB#0	19.8	22.2	33	PASS
Band41	10MHz	64QAM	40620	1RB#0	20.98	23.38	33	PASS
Band41	10MHz	64QAM	40620	1RB#24	21.16	23.56	33	PASS
Band41	10MHz	64QAM	40620	1RB#49	21.13	23.53	33	PASS
Band41	10MHz	64QAM	40620	50RB#0	20.09	22.49	33	PASS
Band41	10MHz	64QAM	41540	1RB#0	20.82	23.22	33	PASS
Band41	10MHz	64QAM	41540	1RB#24	20.9	23.3	33	PASS
Band41	10MHz	64QAM	41540	1RB#49	20.76	23.16	33	PASS
Band41	10MHz	64QAM	41540	50RB#0	19.85	22.25	33	PASS
Band41	10MHz	256QAM	39700	1RB#0	17.62	20.02	33	PASS
Band41	10MHz	256QAM	39700	1RB#24	17.69	20.09	33	PASS
Band41	10MHz	256QAM	39700	1RB#49	17.74	20.14	33	PASS
Band41	10MHz	256QAM	39700	50RB#0	17.78	20.18	33	PASS
Band41	10MHz	256QAM	40620	1RB#0	17.93	20.33	33	PASS
Band41	10MHz	256QAM	40620	1RB#24	18.06	20.46	33	PASS



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Band41	10MHz	256QAM	40620	50RB#0	18.1	20.5	33	PASS
Band41	10MHz	256QAM	41540	1RB#0	17.85	20.25	33	PASS
Band41	10MHz	256QAM	41540	1RB#24	17.8	20.2	33	PASS
Band41	10MHz	256QAM	41540	1RB#49	17.65	20.05	33	PASS
Band41	10MHz	256QAM	41540	50RB#0	17.87	20.27	33	PASS
Band41	15MHz	QPSK	39725	1RB#0	22.46	24.86	33	PASS
Band41	15MHz	QPSK	39725	1RB#38	22.64	25.04	33	PASS
Band41	15MHz	QPSK	39725	1RB#74	22.46	24.86	33	PASS
Band41	15MHz	QPSK	39725	75RB#0	21.65	24.05	33	PASS
Band41	15MHz	QPSK	40620	1RB#0	22.32	24.72	33	PASS
Band41	15MHz	QPSK	40620	1RB#38	22.82	25.22	33	PASS
Band41	15MHz	QPSK	40620	1RB#74	22.92	25.32	33	PASS
Band41	15MHz	QPSK	40620	75RB#0	21.91	24.31	33	PASS
Band41	15MHz	QPSK	41515	1RB#0	22.41	24.81	33	PASS
Band41	15MHz	QPSK	41515	1RB#38	22.64	25.04	33	PASS
Band41	15MHz	QPSK	41515	1RB#74	22.64	25.04	33	PASS
Band41	15MHz	QPSK	41515	75RB#0	21.64	24.04	33	PASS
Band41	15MHz	16QAM	39725	1RB#0	21.46	23.86	33	PASS
Band41	15MHz	16QAM	39725	1RB#38	21.49	23.89	33	PASS
Band41	15MHz	16QAM	39725	1RB#74	21.52	23.92	33	PASS
Band41	15MHz	16QAM	39725	75RB#0	20.63	23.03	33	PASS
Band41	15MHz	16QAM	40620	1RB#0	21.8	24.2	33	PASS
Band41	15MHz	16QAM	40620	1RB#38	21.84	24.24	33	PASS
Band41	15MHz	16QAM	40620	1RB#74	21.83	24.23	33	PASS
Band41	15MHz	16QAM	40620	75RB#0	20.93	23.33	33	PASS
Band41	15MHz	16QAM	41515	1RB#0	21.56	23.96	33	PASS
Band41	15MHz	16QAM	41515	1RB#38	21.58	23.98	33	PASS
Band41	15MHz	16QAM	41515	1RB#74	21.52	23.92	33	PASS
Band41	15MHz	16QAM	41515	75RB#0	20.62	23.02	33	PASS
Band41	15MHz	64QAM	39725	1RB#0	20.59	22.99	33	PASS
Band41	15MHz	64QAM	39725	1RB#38	20.62	23.02	33	PASS



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Band41	15MHz	64QAM	39725	75RB#0	19.67	22.07	33	PASS
Band41	15MHz	64QAM	40620	1RB#0	20.86	23.26	33	PASS
Band41	15MHz	64QAM	40620	1RB#38	20.95	23.35	33	PASS
Band41	15MHz	64QAM	40620	1RB#74	20.97	23.37	33	PASS
Band41	15MHz	64QAM	40620	75RB#0	19.93	22.33	33	PASS
Band41	15MHz	64QAM	41515	1RB#0	20.63	23.03	33	PASS
Band41	15MHz	64QAM	41515	1RB#38	20.73	23.13	33	PASS
Band41	15MHz	64QAM	41515	1RB#74	20.69	23.09	33	PASS
Band41	15MHz	64QAM	41515	75RB#0	19.61	22.01	33	PASS
Band41	15MHz	256QAM	39725	1RB#0	17.44	19.84	33	PASS
Band41	15MHz	256QAM	39725	1RB#38	17.52	19.92	33	PASS
Band41	15MHz	256QAM	39725	1RB#74	17.51	19.91	33	PASS
Band41	15MHz	256QAM	39725	75RB#0	17.65	20.05	33	PASS
Band41	15MHz	256QAM	40620	1RB#0	17.64	20.04	33	PASS
Band41	15MHz	256QAM	40620	1RB#38	17.84	20.24	33	PASS
Band41	15MHz	256QAM	40620	1RB#74	17.79	20.19	33	PASS
Band41	15MHz	256QAM	40620	75RB#0	17.95	20.35	33	PASS
Band41	15MHz	256QAM	41515	1RB#0	17.51	19.91	33	PASS
Band41	15MHz	256QAM	41515	1RB#38	17.6	20	33	PASS
Band41	15MHz	256QAM	41515	1RB#74	17.62	20.02	33	PASS
Band41	15MHz	256QAM	41515	75RB#0	17.64	20.04	33	PASS
Band41	20MHz	QPSK	39750	1RB#0	22.53	24.93	33	PASS
Band41	20MHz	QPSK	39750	1RB#49	22.58	24.98	33	PASS
Band41	20MHz	QPSK	39750	1RB#99	22.51	24.91	33	PASS
Band41	20MHz	QPSK	39750	100RB#0	21.68	24.08	33	PASS
Band41	20MHz	QPSK	40620	1RB#0	22.36	24.76	33	PASS
Band41	20MHz	QPSK	40620	1RB#49	22.85	25.25	33	PASS
Band41	20MHz	QPSK	40620	1RB#99	22.92	25.32	33	PASS
Band41	20MHz	QPSK	40620	100RB#0	21.94	24.34	33	PASS
Band41	20MHz	QPSK	41490	1RB#0	22.52	24.92	33	PASS
Band41	20MHz	QPSK	41490	1RB#49	22.65	25.05	33	PASS



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Band41	20MHz	QPSK	41490	100RB#0	21.65	24.05	33	PASS
Band41	20MHz	16QAM	39750	1RB#0	21.37	23.77	33	PASS
Band41	20MHz	16QAM	39750	1RB#49	21.62	24.02	33	PASS
Band41	20MHz	16QAM	39750	1RB#99	21.51	23.91	33	PASS
Band41	20MHz	16QAM	39750	100RB#0	20.64	23.04	33	PASS
Band41	20MHz	16QAM	40620	1RB#0	21.75	24.15	33	PASS
Band41	20MHz	16QAM	40620	1RB#49	21.89	24.29	33	PASS
Band41	20MHz	16QAM	40620	1RB#99	21.84	24.24	33	PASS
Band41	20MHz	16QAM	40620	100RB#0	20.94	23.34	33	PASS
Band41	20MHz	16QAM	41490	1RB#0	21.58	23.98	33	PASS
Band41	20MHz	16QAM	41490	1RB#49	21.72	24.12	33	PASS
Band41	20MHz	16QAM	41490	1RB#99	21.66	24.06	33	PASS
Band41	20MHz	16QAM	41490	100RB#0	20.67	23.07	33	PASS
Band41	20MHz	64QAM	39750	1RB#0	20.61	23.01	33	PASS
Band41	20MHz	64QAM	39750	1RB#49	20.69	23.09	33	PASS
Band41	20MHz	64QAM	39750	1RB#99	20.58	22.98	33	PASS
Band41	20MHz	64QAM	39750	100RB#0	19.67	22.07	33	PASS
Band41	20MHz	64QAM	40620	1RB#0	20.86	23.26	33	PASS
Band41	20MHz	64QAM	40620	1RB#49	20.94	23.34	33	PASS
Band41	20MHz	64QAM	40620	1RB#99	21.01	23.41	33	PASS
Band41	20MHz	64QAM	40620	100RB#0	19.92	22.32	33	PASS
Band41	20MHz	64QAM	41490	1RB#0	20.68	23.08	33	PASS
Band41	20MHz	64QAM	41490	1RB#49	20.78	23.18	33	PASS
Band41	20MHz	64QAM	41490	1RB#99	20.7	23.1	33	PASS
Band41	20MHz	64QAM	41490	100RB#0	19.68	22.08	33	PASS
Band41	20MHz	256QAM	39750	1RB#0	17.48	19.88	33	PASS
Band41	20MHz	256QAM	39750	1RB#49	17.52	19.92	33	PASS
Band41	20MHz	256QAM	39750	1RB#99	17.56	19.96	33	PASS
Band41	20MHz	256QAM	39750	100RB#0	17.64	20.04	33	PASS
Band41	20MHz	256QAM	40620	1RB#0	17.65	20.05	33	PASS
Band41	20MHz	256QAM	40620	1RB#49	17.7	20.1	33	PASS



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Band41	20MHz	256QAM	40620	1RB#99	17.78	20.18	33	PASS
Band41	20MHz	256QAM	40620	100RB#0	17.91	20.31	33	PASS
Band41	20MHz	256QAM	41490	1RB#0	17.72	20.12	33	PASS
Band41	20MHz	256QAM	41490	1RB#49	17.69	20.09	33	PASS
Band41	20MHz	256QAM	41490	1RB#99	17.63	20.03	33	PASS
Band41	20MHz	256QAM	41490	100RB#0	17.65	20.05	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	7.50	13	PASS
Band41	20MHz	QPSK	40620	100RB#0	7.64	13	PASS
Band41	20MHz	QPSK	41490	100RB#0	7.52	13	PASS
Band41	20MHz	16QAM	39750	100RB#0	8.28	13	PASS
Band41	20MHz	16QAM	40620	100RB#0	8.42	13	PASS
Band41	20MHz	16QAM	41490	100RB#0	8.30	13	PASS
Band41	20MHz	64QAM	39750	100RB#0	8.50	13	PASS
Band41	20MHz	64QAM	40620	100RB#0	8.84	13	PASS
Band41	20MHz	64QAM	41490	100RB#0	8.64	13	PASS
Band41	20MHz	256QAM	39750	100RB#0	8.70	13	PASS
Band41	20MHz	256QAM	40620	100RB#0	8.96	13	PASS
Band41	20MHz	256QAM	41490	100RB#0	8.78	13	PASS



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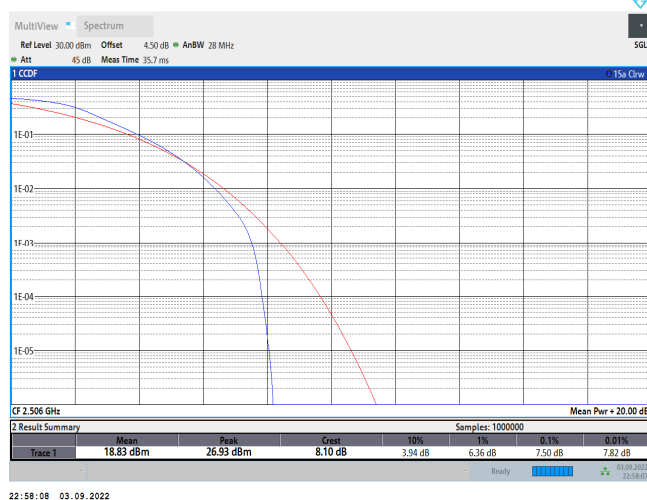
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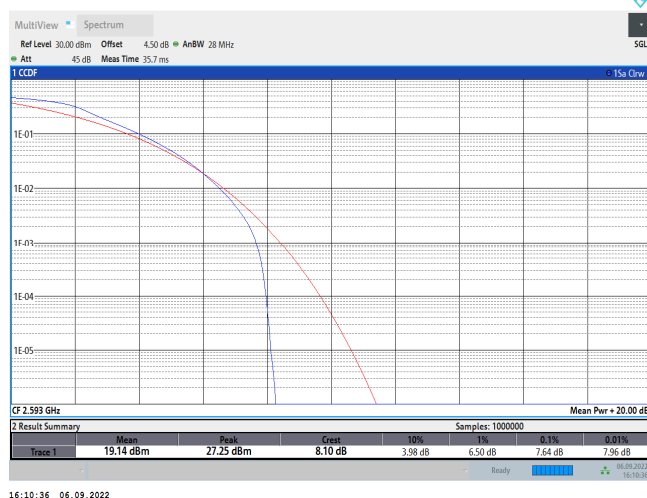
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Test Graphs

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



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



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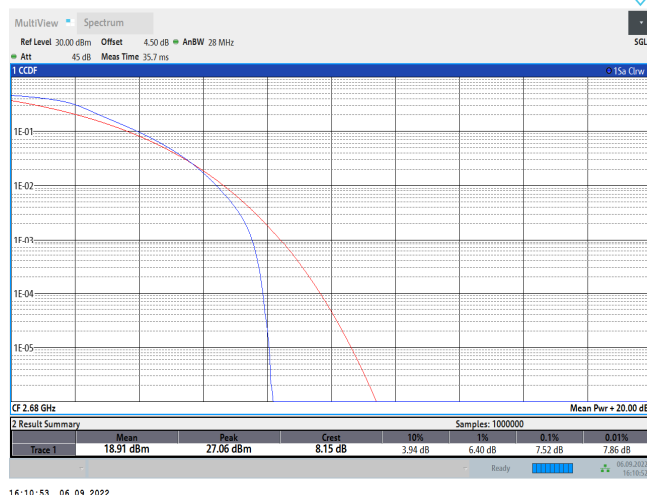
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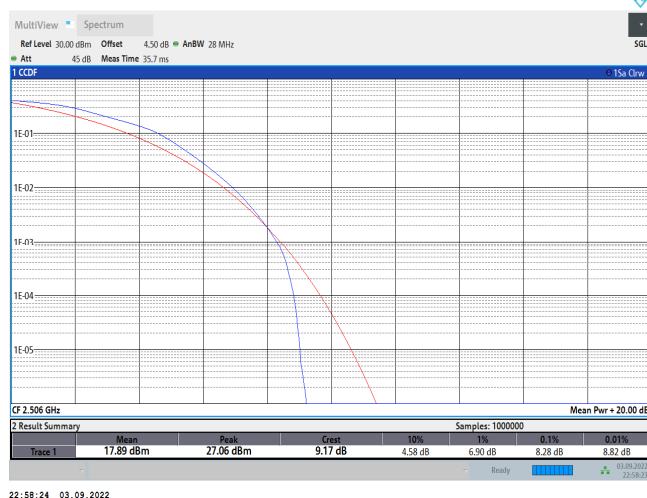
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Band41-20MHz-QPSK-41490-100RB#0



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



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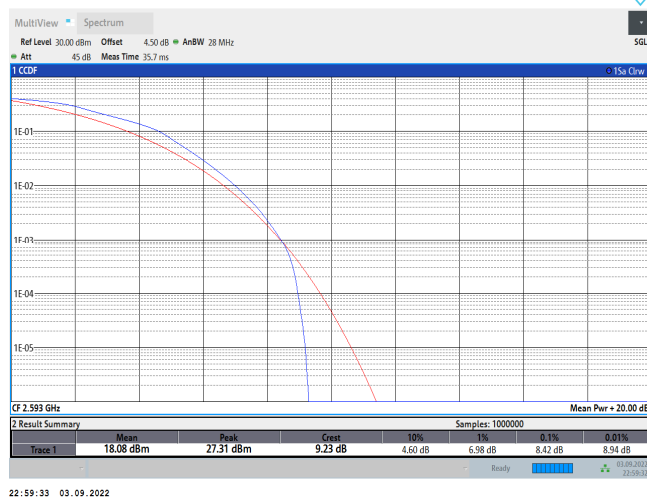
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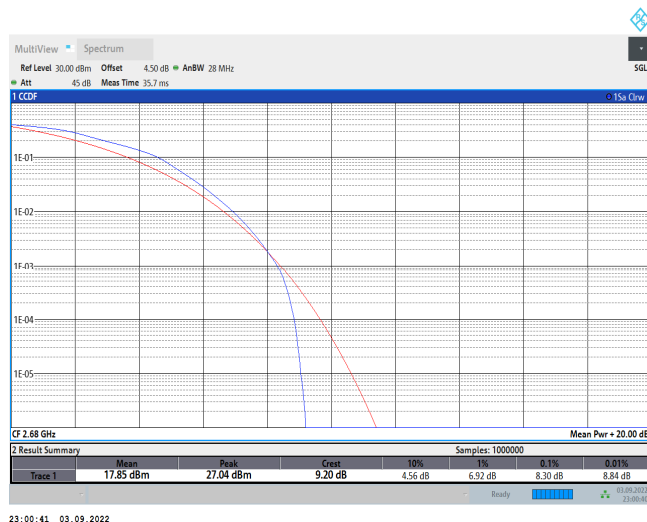
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Band41-20MHz-16QAM-40620-100RB#0



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



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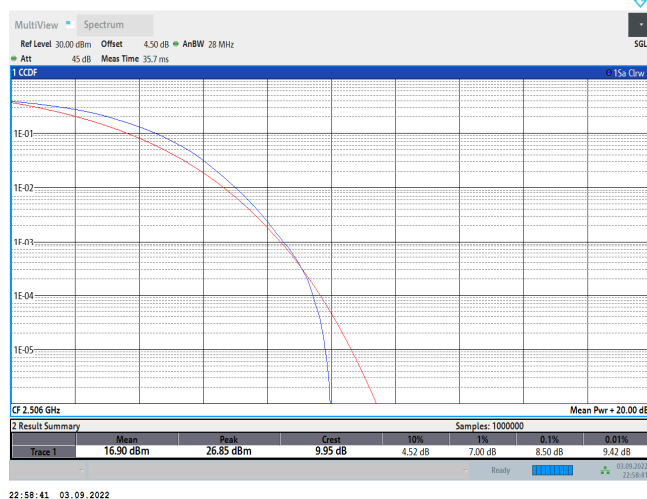
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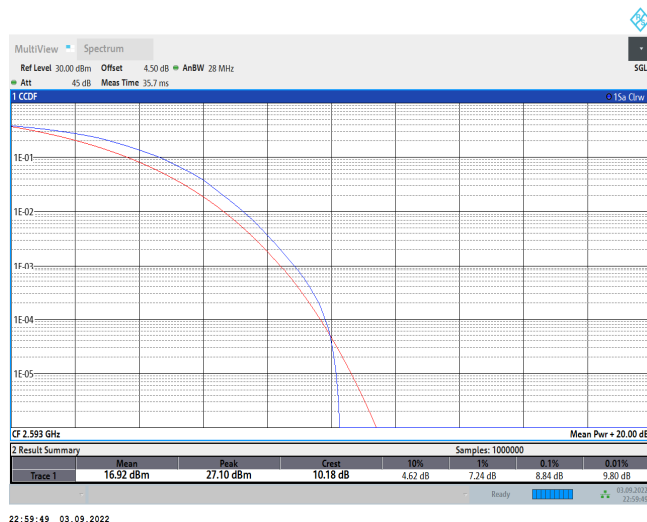
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Band41-20MHz-64QAM-39750-100RB#0



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



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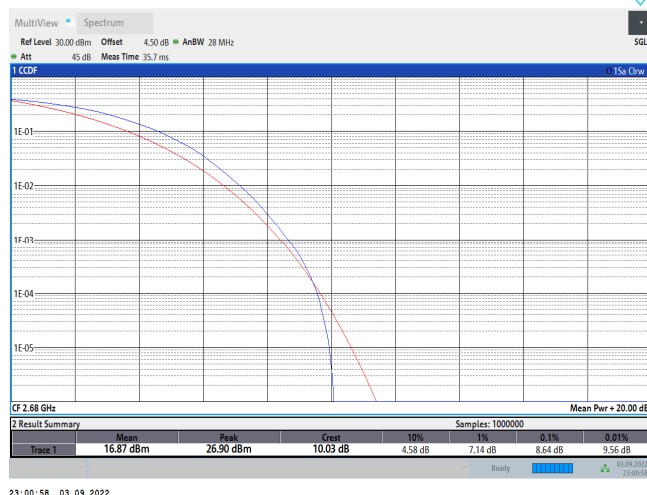
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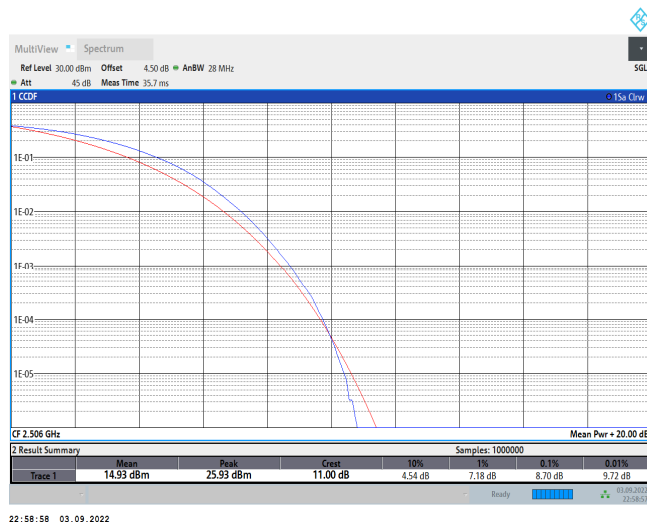
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Band41-20MHz-64QAM-41490-100RB#0



Band41-20MHz-256QAM-39750-100RB#0



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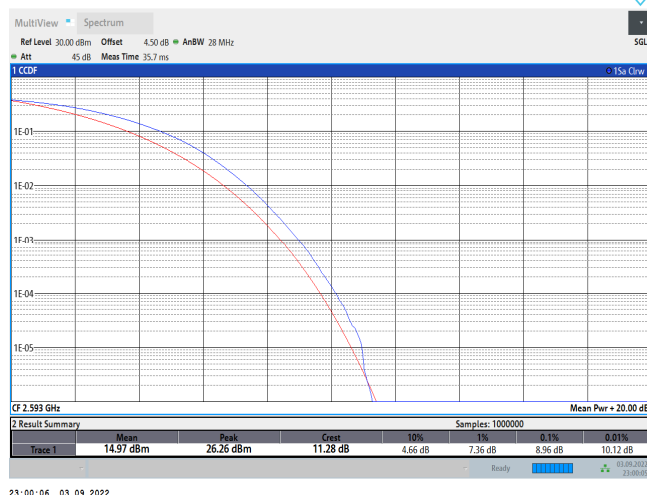
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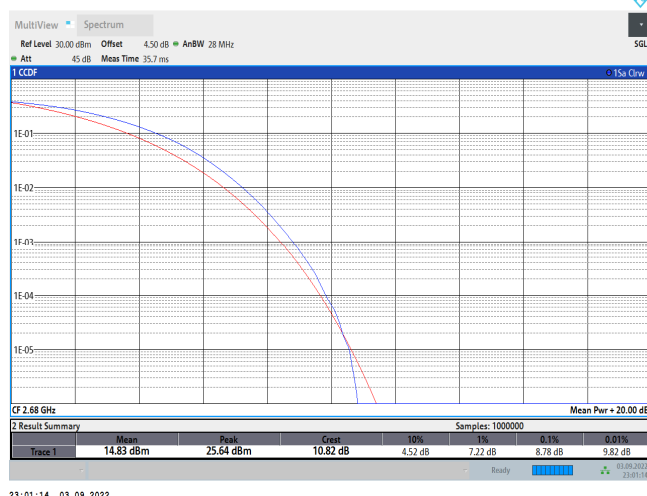
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Band41-20MHz-256QAM-40620-100RB#0



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Band41-20MHz-256QAM-41490-100RB#0



23:01:14 03.09.2022



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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
Band41	20MHz	256QAM	40620	100RB#0	PASS	PASS



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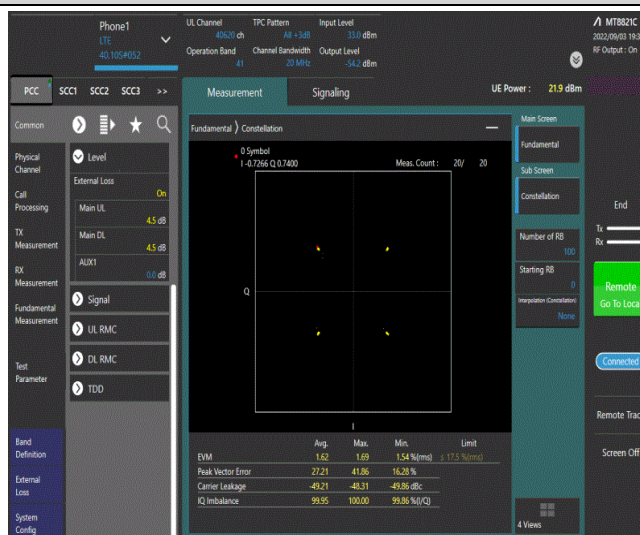
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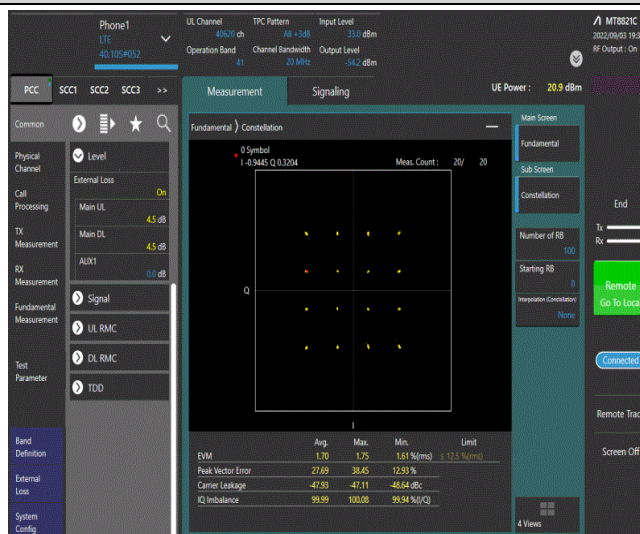
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Band41-20MHz-16QAM-40620-100RB#0



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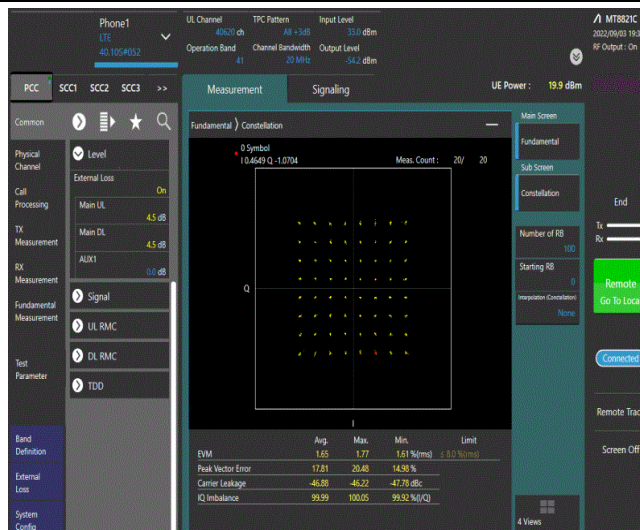
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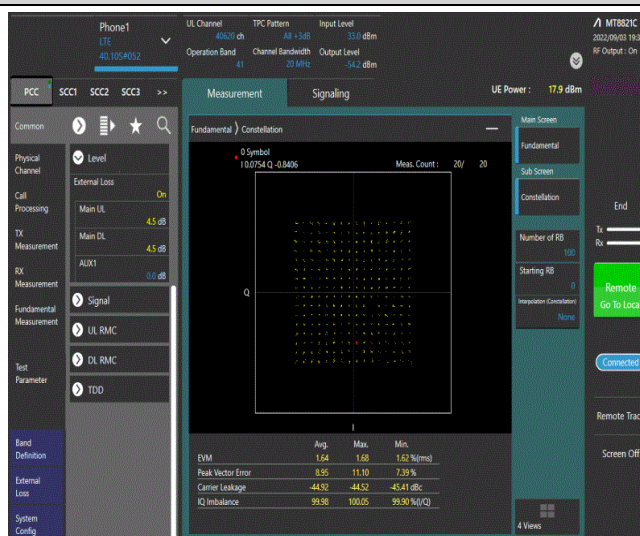
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Band41-20MHz-64QAM-40620-100RB#0



Band41-20MHz-256QAM-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	4.481	5.11	PASS
Band41	5MHz	QPSK	40620	25RB#0	4.478	5.10	PASS
Band41	5MHz	QPSK	41565	25RB#0	4.478	5.05	PASS
Band41	5MHz	16QAM	39675	25RB#0	4.479	5.01	PASS
Band41	5MHz	16QAM	40620	25RB#0	4.479	5.18	PASS
Band41	5MHz	16QAM	41565	25RB#0	4.48	5.06	PASS
Band41	5MHz	64QAM	39675	25RB#0	4.482	5.03	PASS
Band41	5MHz	64QAM	40620	25RB#0	4.482	5.04	PASS
Band41	5MHz	64QAM	41565	25RB#0	4.479	5.07	PASS
Band41	5MHz	256QAM	39675	25RB#0	4.476	5.02	PASS
Band41	5MHz	256QAM	40620	25RB#0	4.487	5.06	PASS
Band41	5MHz	256QAM	41565	25RB#0	4.477	5.01	PASS
Band41	10MHz	QPSK	39700	50RB#0	8.945	10.10	PASS
Band41	10MHz	QPSK	40620	50RB#0	8.954	10.00	PASS
Band41	10MHz	QPSK	41540	50RB#0	8.95	10.04	PASS
Band41	10MHz	16QAM	39700	50RB#0	8.942	9.88	PASS
Band41	10MHz	16QAM	40620	50RB#0	8.94	9.78	PASS
Band41	10MHz	16QAM	41540	50RB#0	8.946	9.86	PASS
Band41	10MHz	64QAM	39700	50RB#0	8.945	10.10	PASS
Band41	10MHz	64QAM	40620	50RB#0	8.936	9.84	PASS
Band41	10MHz	64QAM	41540	50RB#0	8.942	10.00	PASS
Band41	10MHz	256QAM	39700	50RB#0	8.951	10.04	PASS
Band41	10MHz	256QAM	40620	50RB#0	8.949	10.28	PASS
Band41	10MHz	256QAM	41540	50RB#0	8.958	10.00	PASS
Band41	15MHz	QPSK	39725	75RB#0	13.5	15.33	PASS
Band41	15MHz	QPSK	40620	75RB#0	13.507	16.20	PASS
Band41	15MHz	QPSK	41515	75RB#0	13.484	16.44	PASS
Band41	15MHz	16QAM	39725	75RB#0	13.484	15.96	PASS
Band41	15MHz	16QAM	40620	75RB#0	13.495	16.29	PASS



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Band41	15MHz	16QAM	41515	75RB#0	13.486	15.96	PASS
Band41	15MHz	64QAM	39725	75RB#0	13.48	16.44	PASS
Band41	15MHz	64QAM	40620	75RB#0	13.508	17.04	PASS
Band41	15MHz	64QAM	41515	75RB#0	13.513	16.08	PASS
Band41	15MHz	256QAM	39725	75RB#0	13.504	16.65	PASS
Band41	15MHz	256QAM	40620	75RB#0	13.462	15.06	PASS
Band41	15MHz	256QAM	41515	75RB#0	13.513	16.38	PASS
Band41	20MHz	QPSK	39750	100RB#0	17.931	20.36	PASS
Band41	20MHz	QPSK	40620	100RB#0	17.955	20.56	PASS
Band41	20MHz	QPSK	41490	100RB#0	17.933	20.60	PASS
Band41	20MHz	16QAM	39750	100RB#0	17.936	21.32	PASS
Band41	20MHz	16QAM	40620	100RB#0	17.923	20.88	PASS
Band41	20MHz	16QAM	41490	100RB#0	17.95	20.80	PASS
Band41	20MHz	64QAM	39750	100RB#0	17.917	21.96	PASS
Band41	20MHz	64QAM	40620	100RB#0	17.896	20.16	PASS
Band41	20MHz	64QAM	41490	100RB#0	17.923	21.12	PASS
Band41	20MHz	256QAM	39750	100RB#0	17.903	20.52	PASS
Band41	20MHz	256QAM	40620	100RB#0	17.907	19.84	PASS
Band41	20MHz	256QAM	41490	100RB#0	17.947	20.68	PASS



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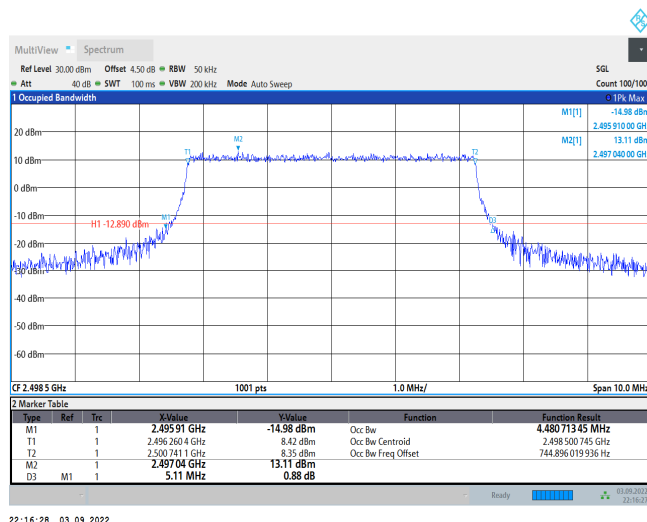
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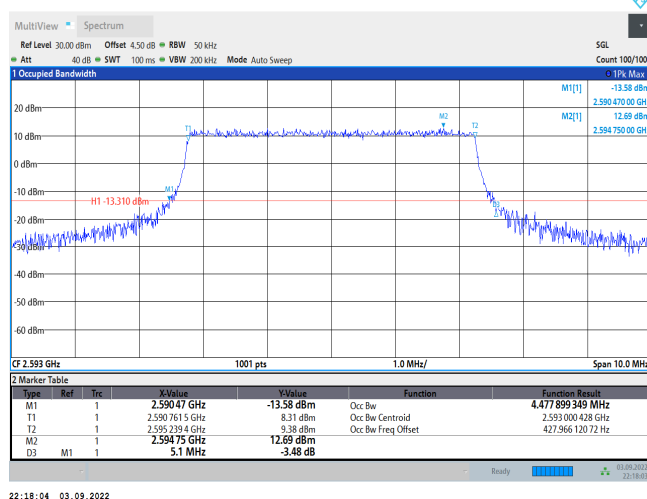
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Test Graphs

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



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



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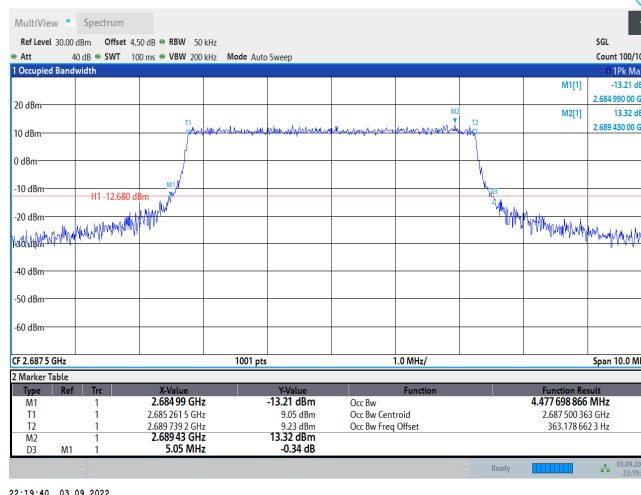
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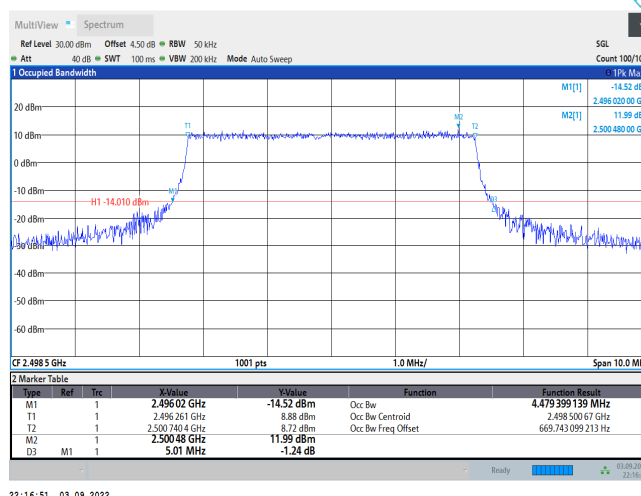
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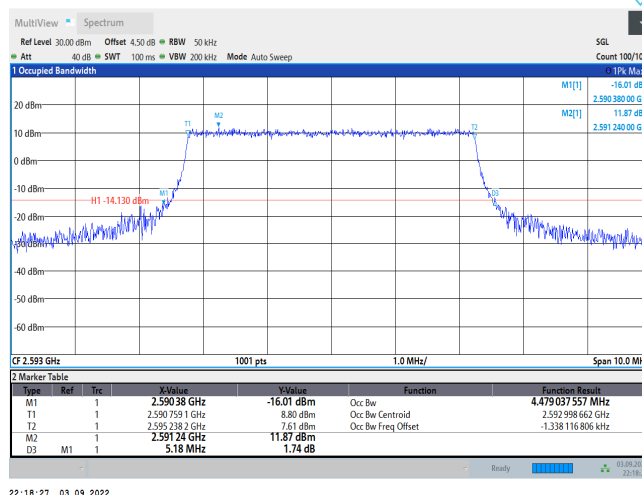
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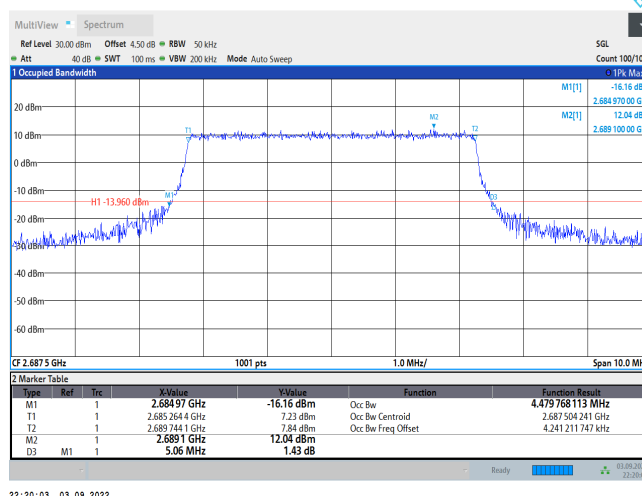
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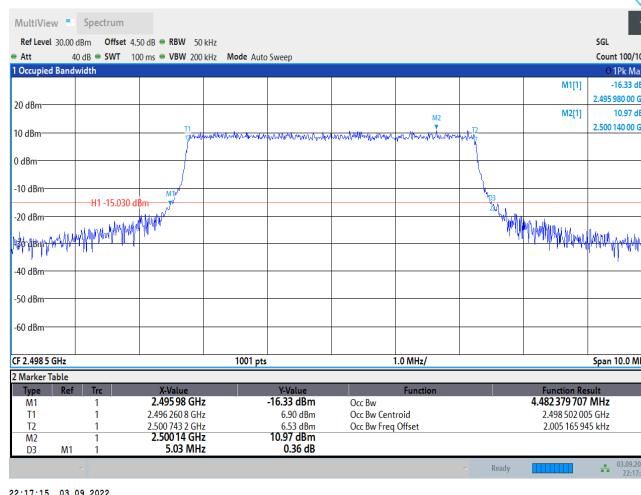
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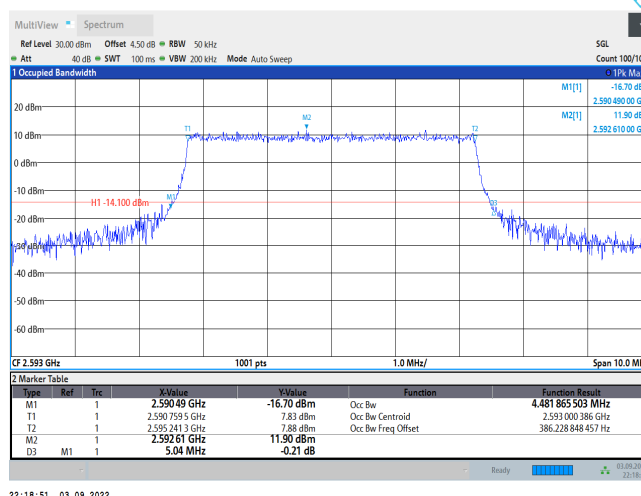
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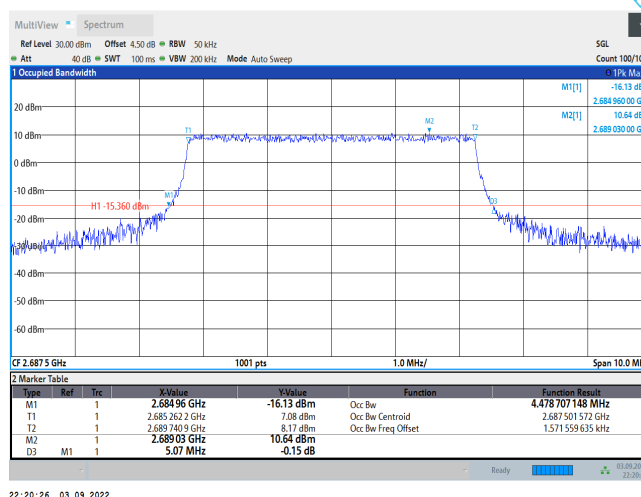
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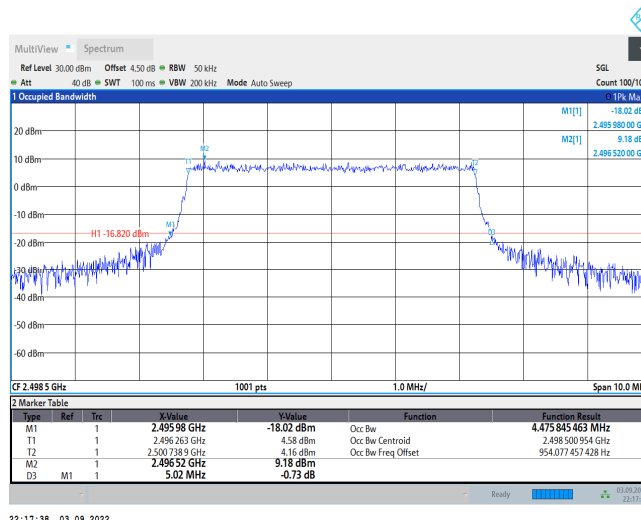
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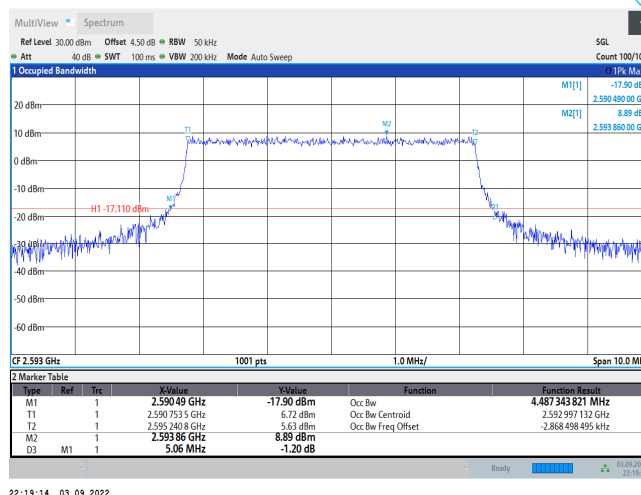
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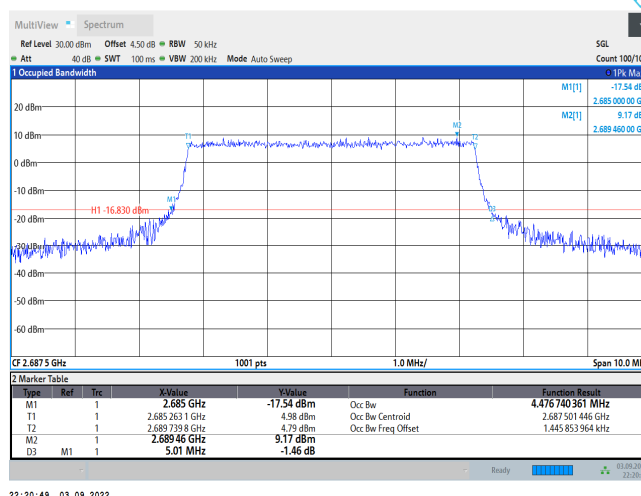
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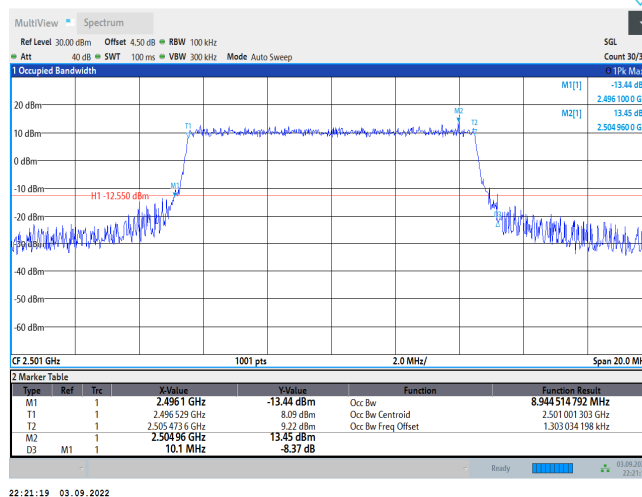
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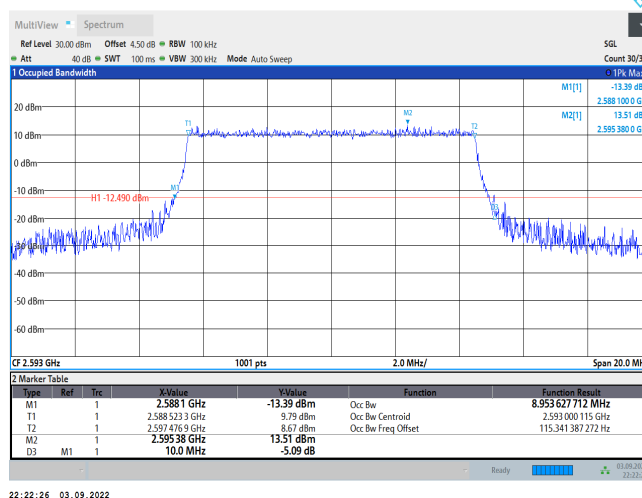
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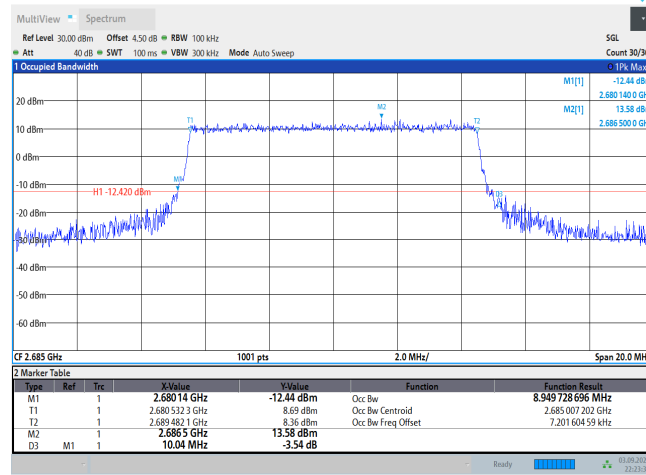
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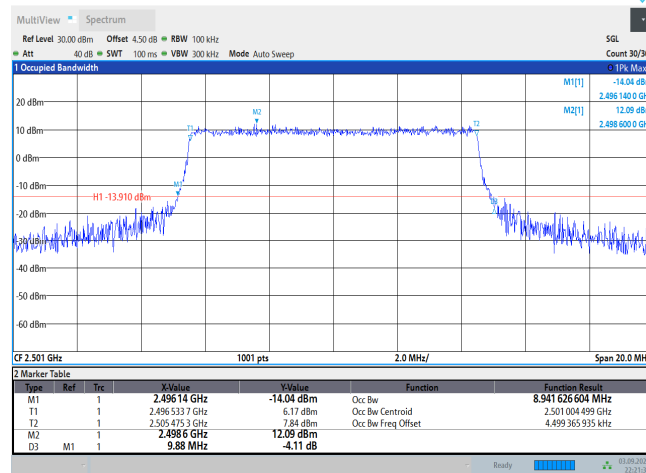
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Band41-10MHz-QPSK-41540-50RB#0



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



22:21:35 03.09.2022



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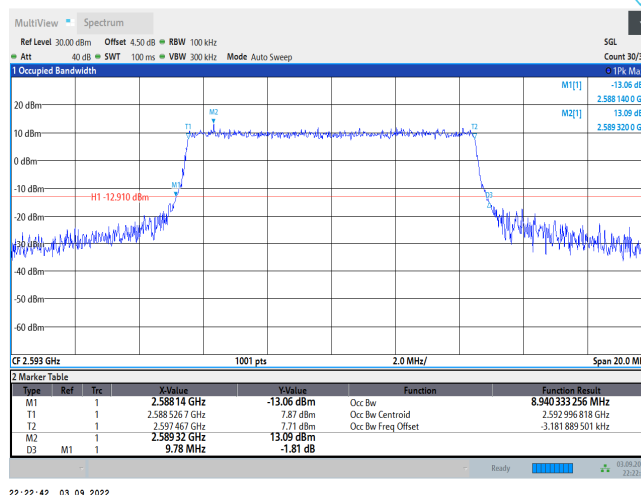
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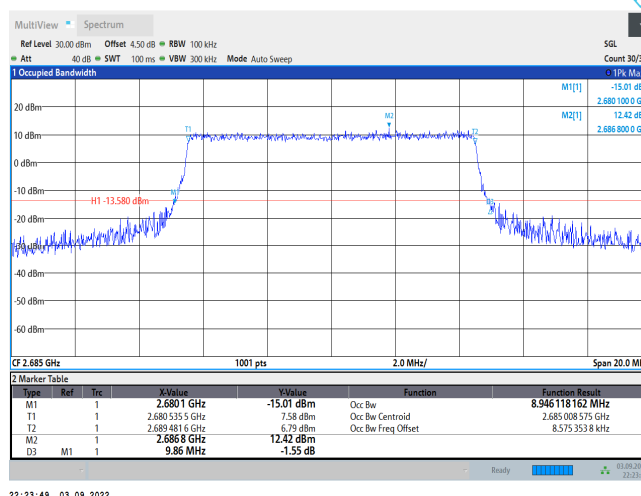
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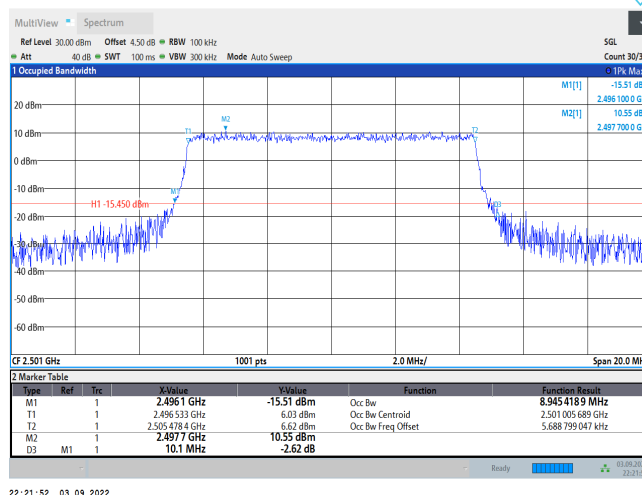
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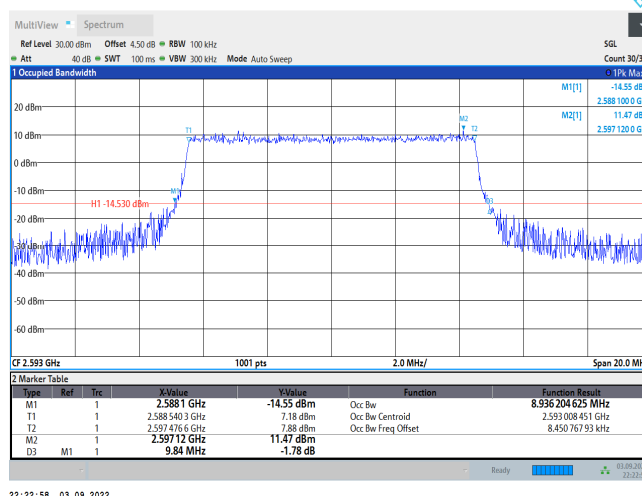
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Band41-10MHz-64QAM-40620-50RB#0



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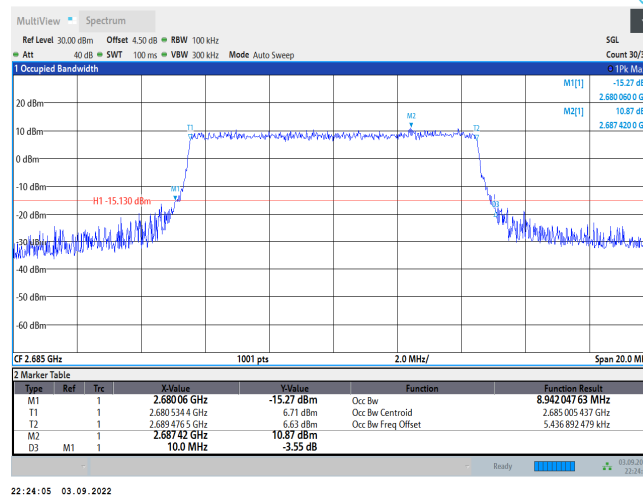
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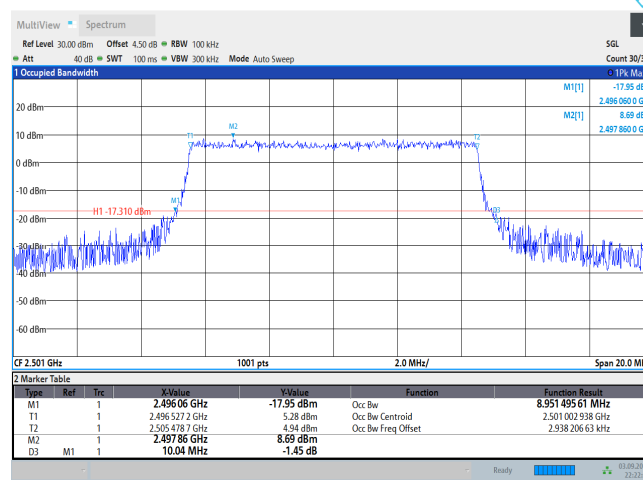
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Band41-10MHz-256QAM-39700-50RB#0



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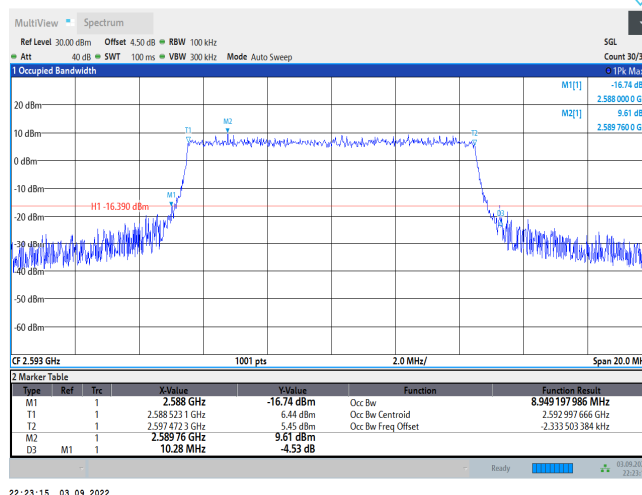
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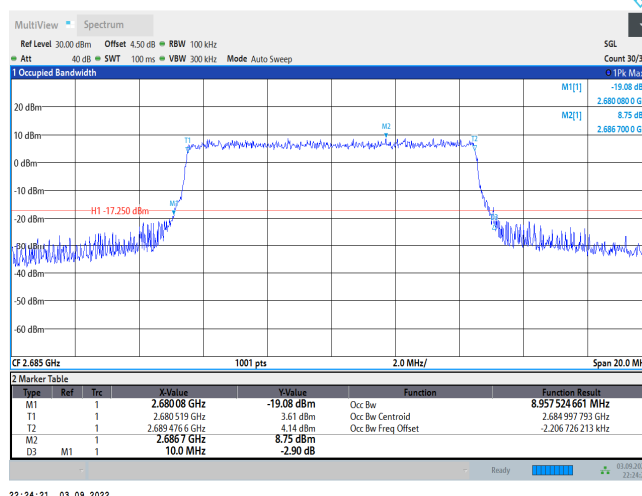
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Band41-10MHz-256QAM-41540-50RB#0



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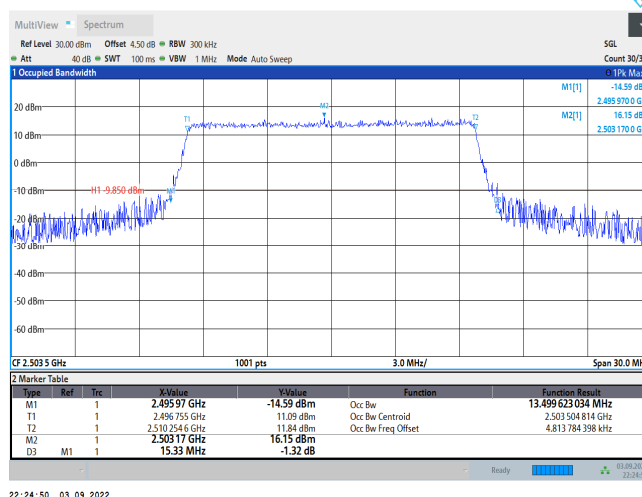
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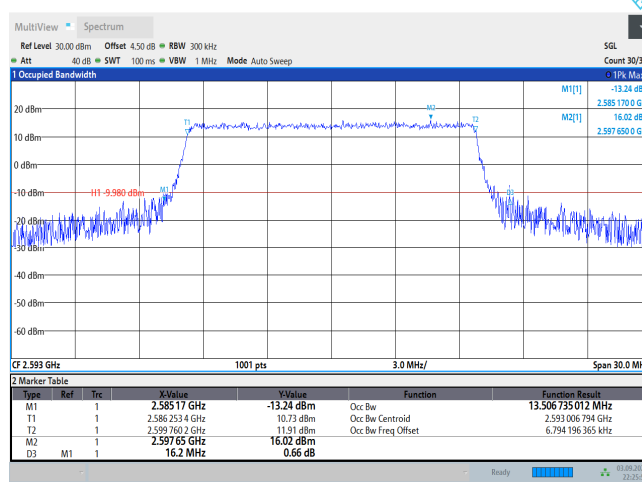
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22:24:50 03.09.2022

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



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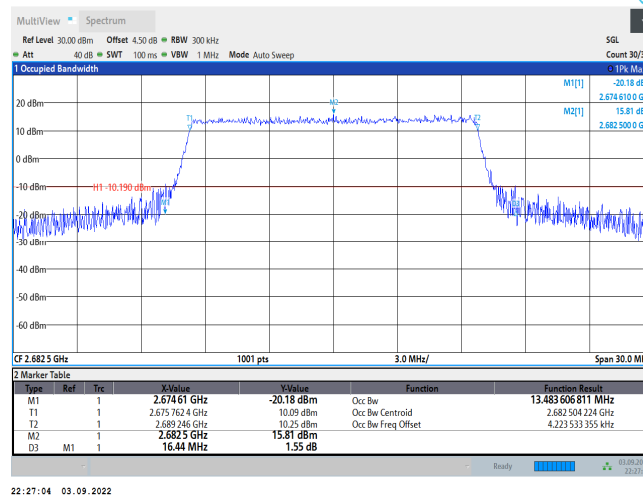
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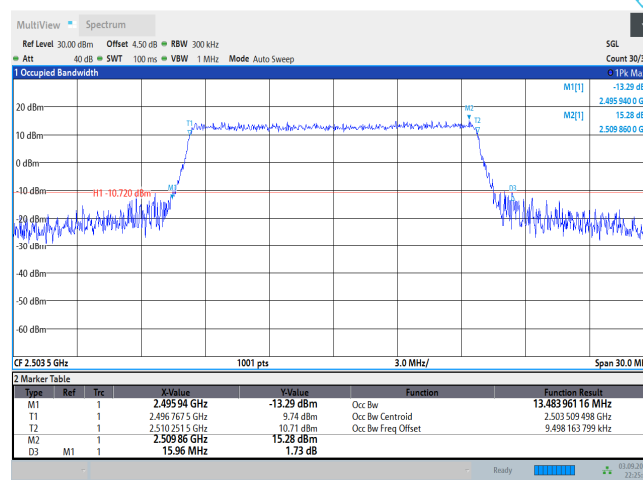
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Band41-15MHz-QPSK-41515-75RB#0



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



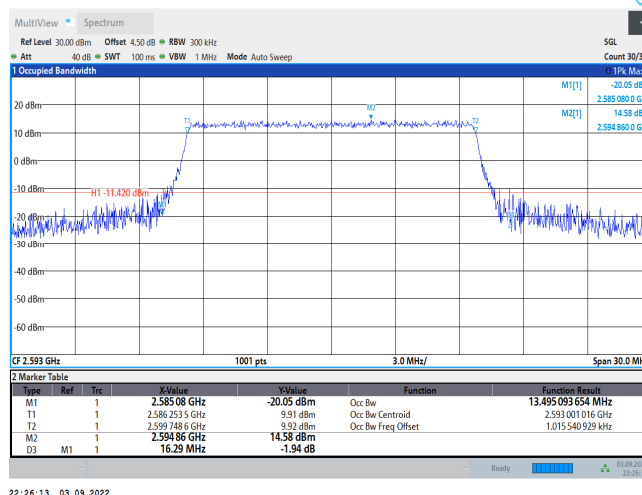
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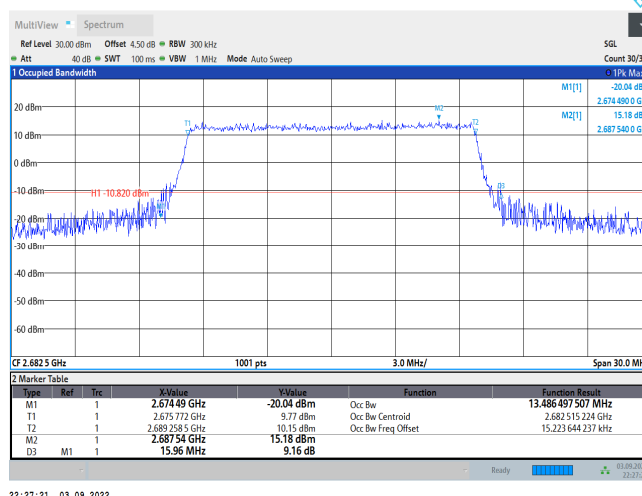
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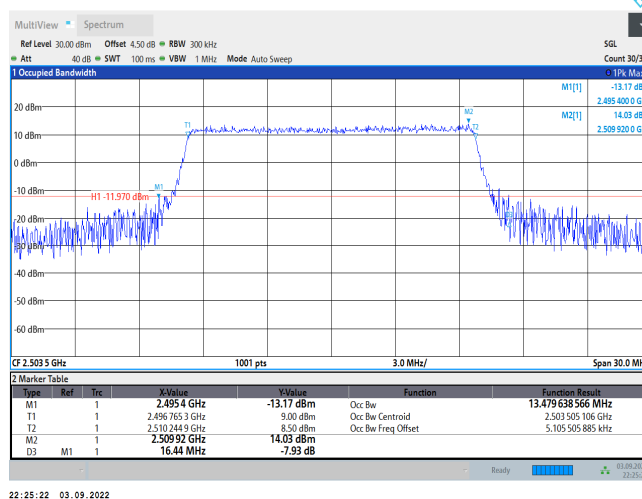
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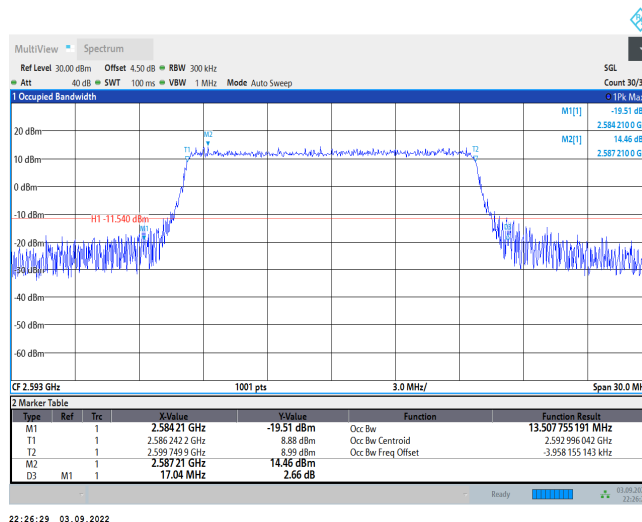
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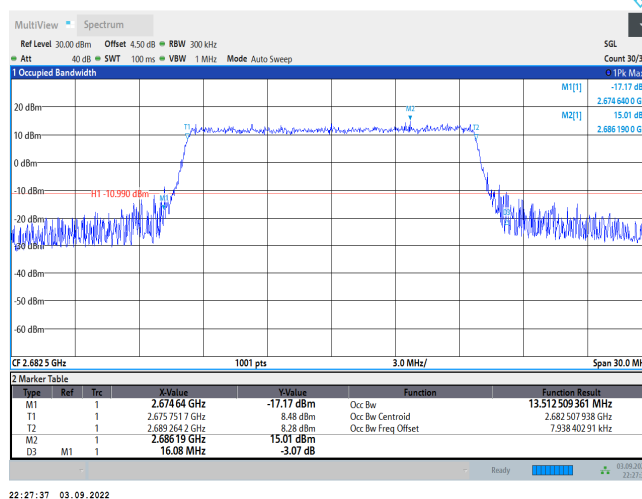
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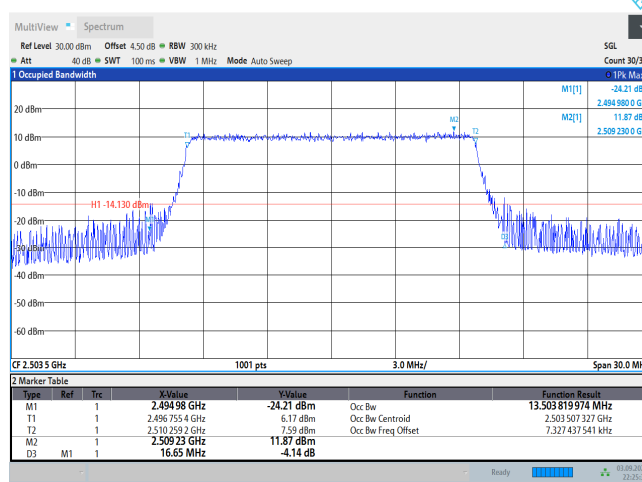
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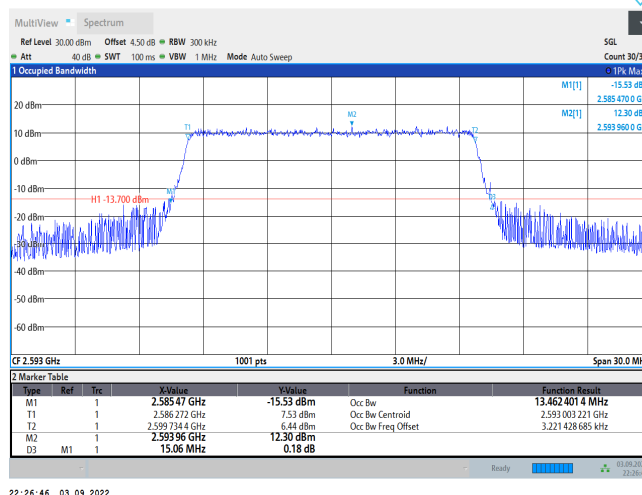
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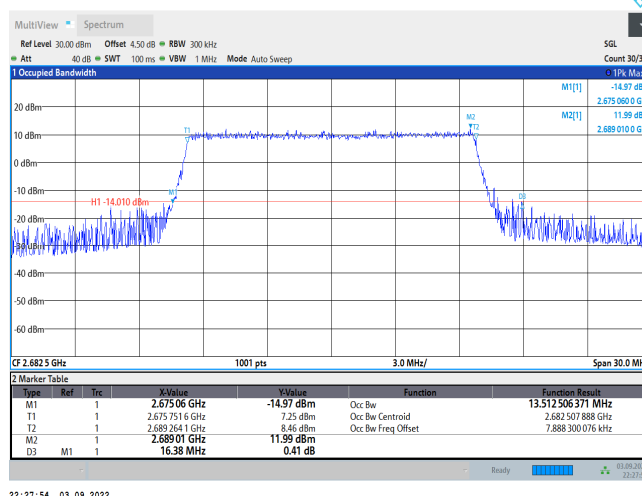
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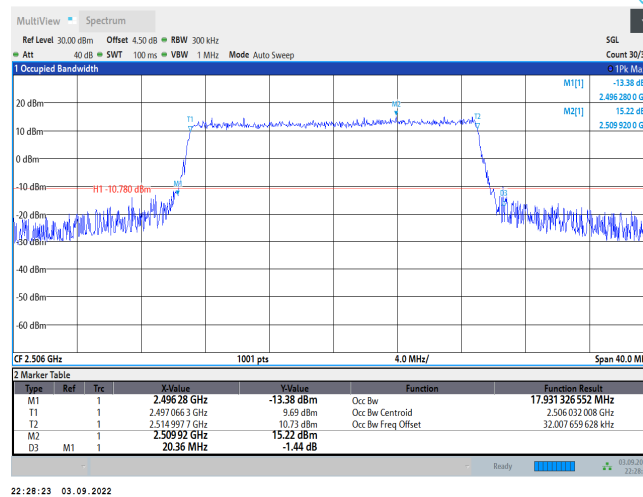
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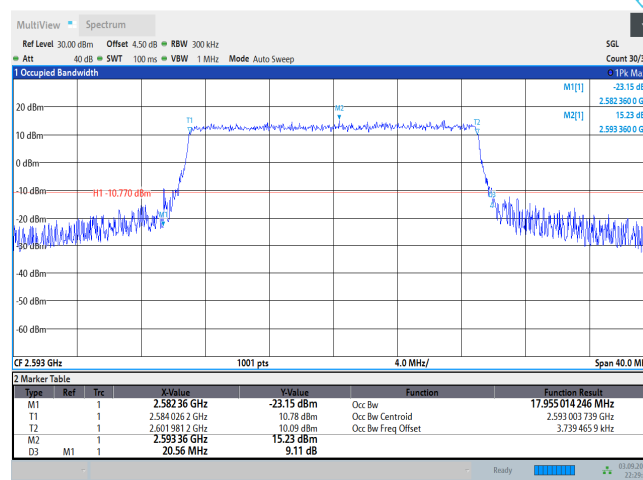
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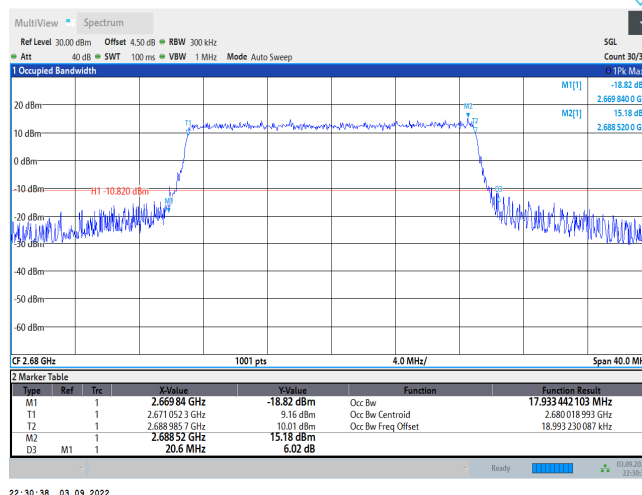
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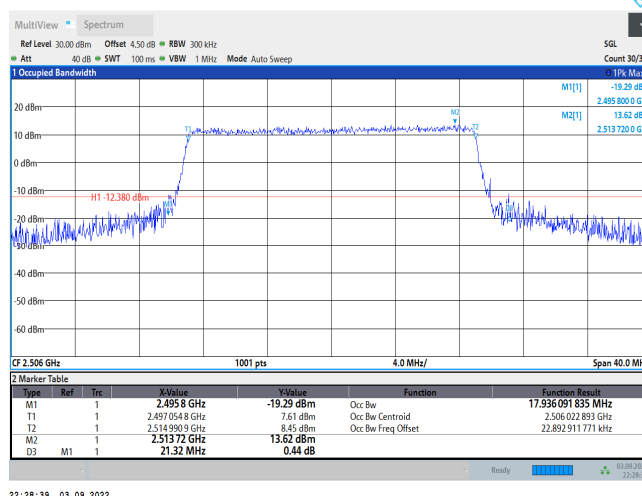
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Band41-20MHz-QPSK-41490-100RB#0



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



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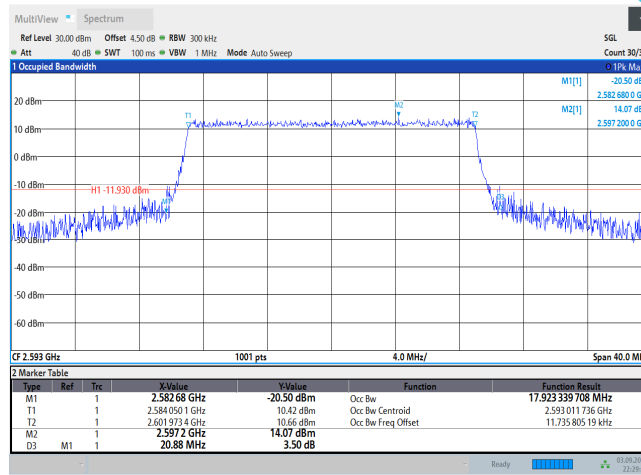
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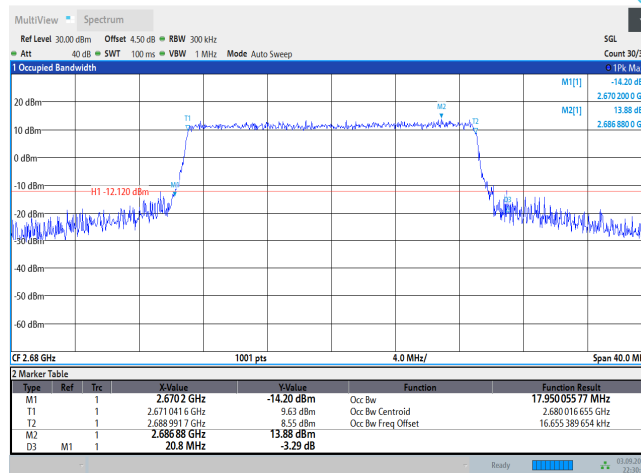
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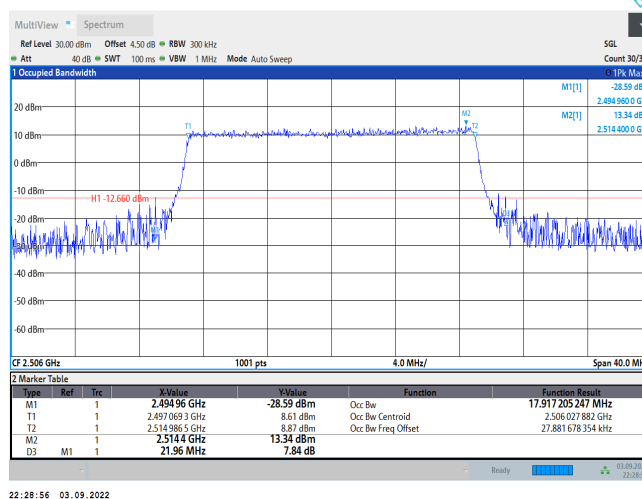
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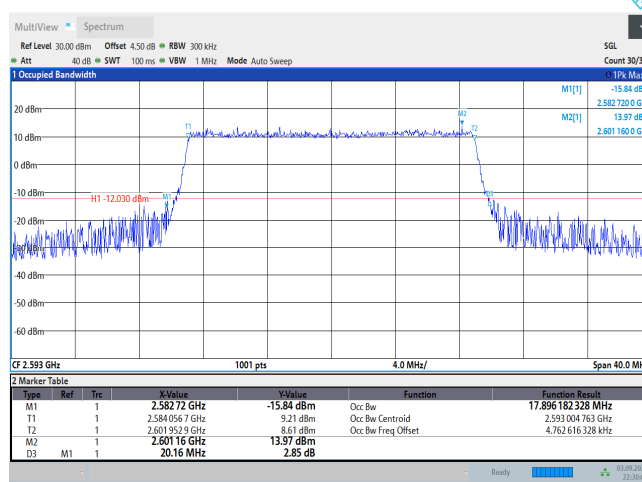
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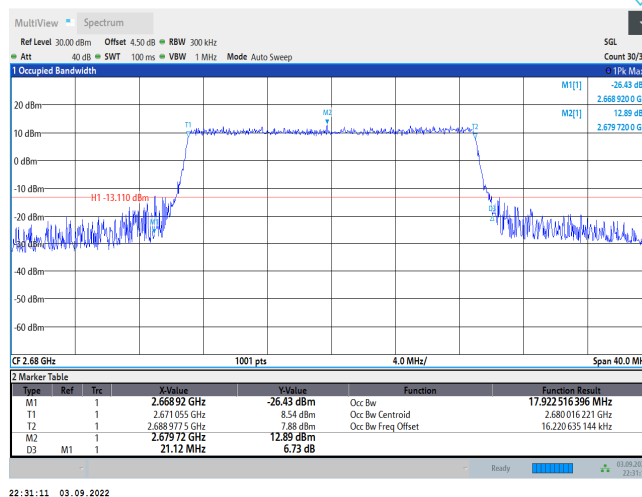
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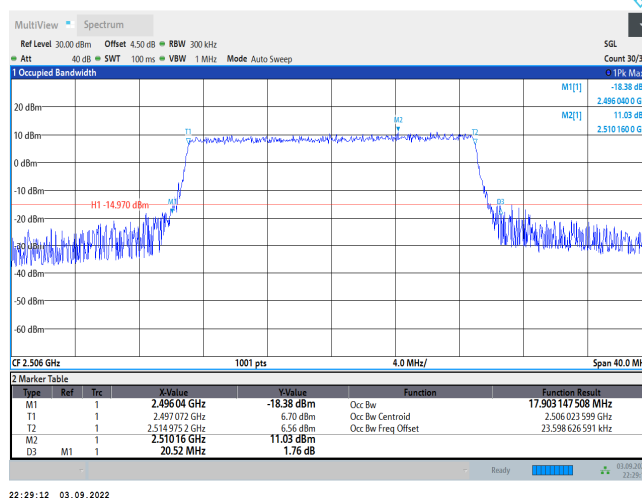
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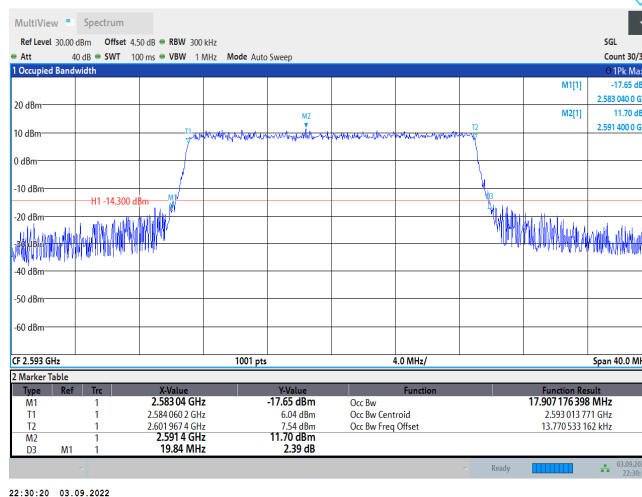
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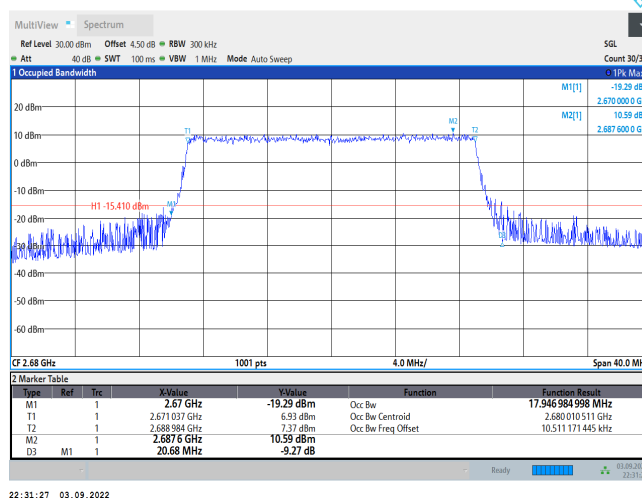
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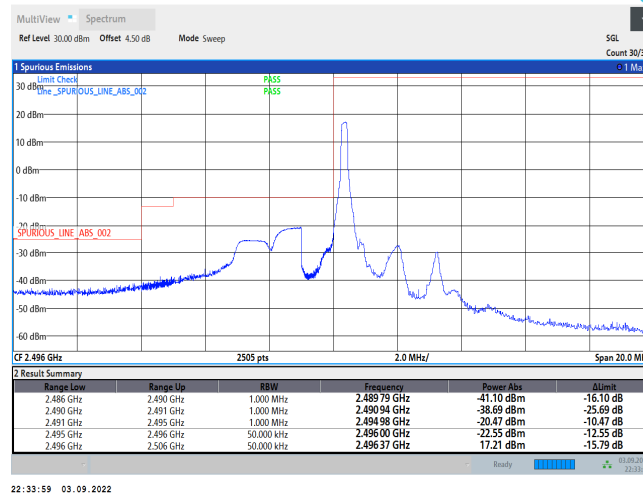
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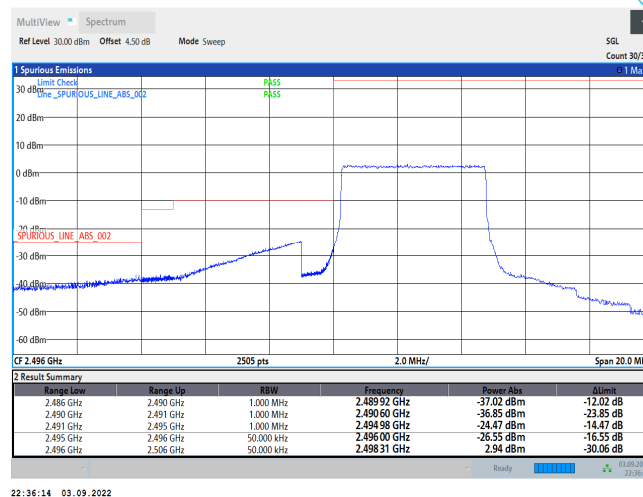
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Test Graphs

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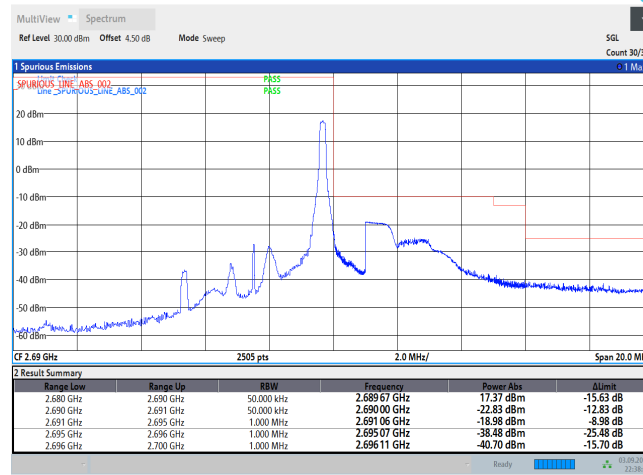
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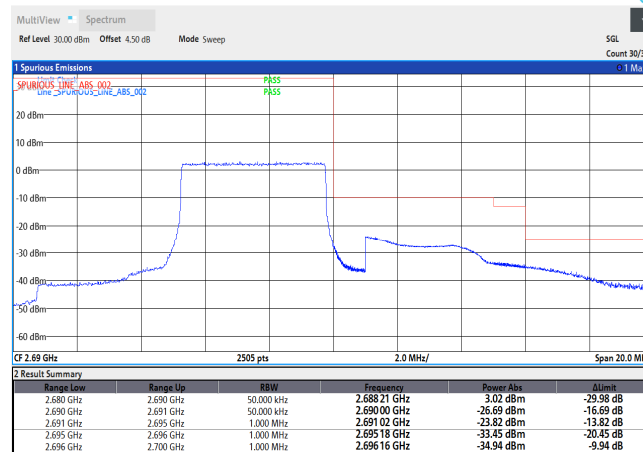
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Band41-5MHz-QPSK-41565-1RB#24



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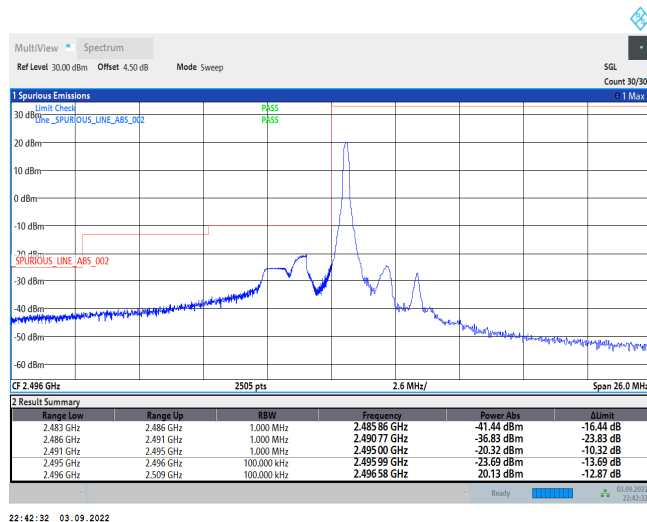
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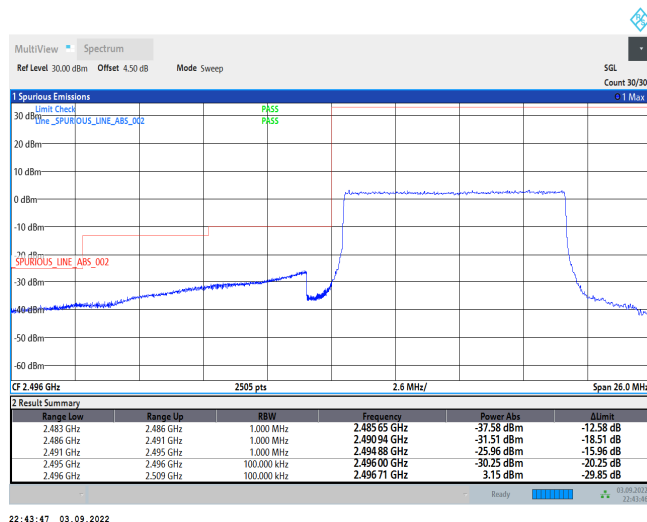
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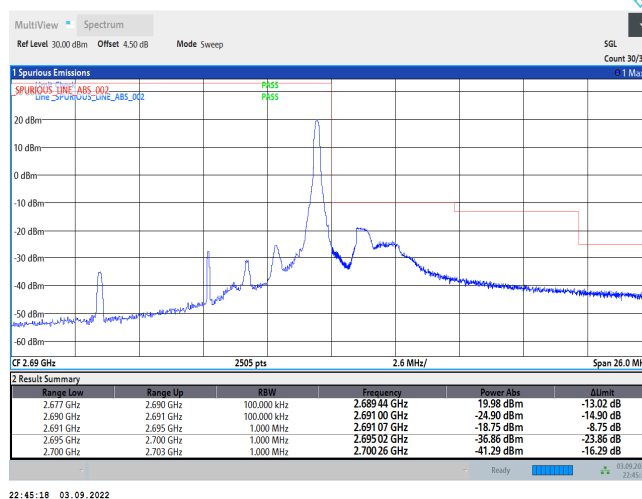
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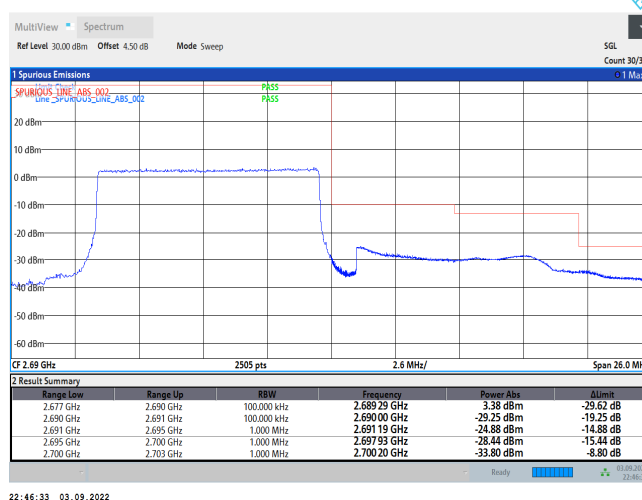
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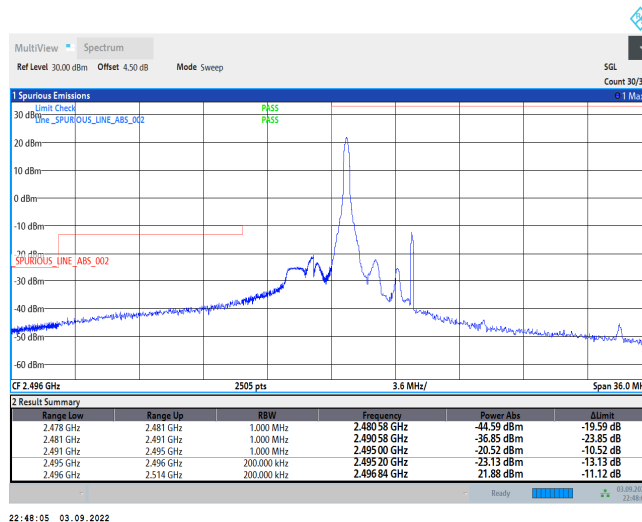
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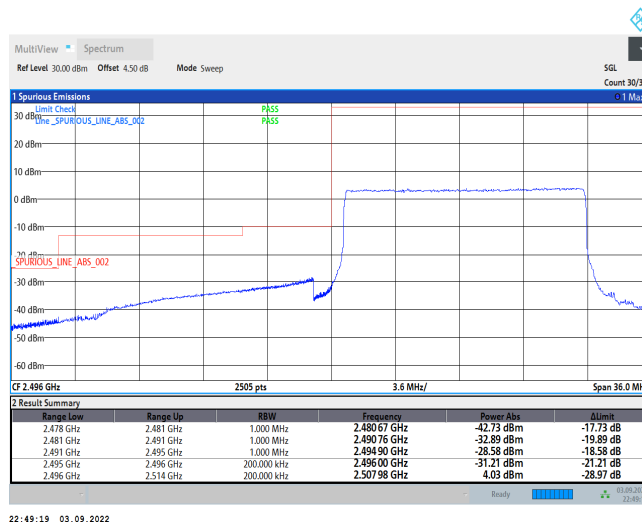
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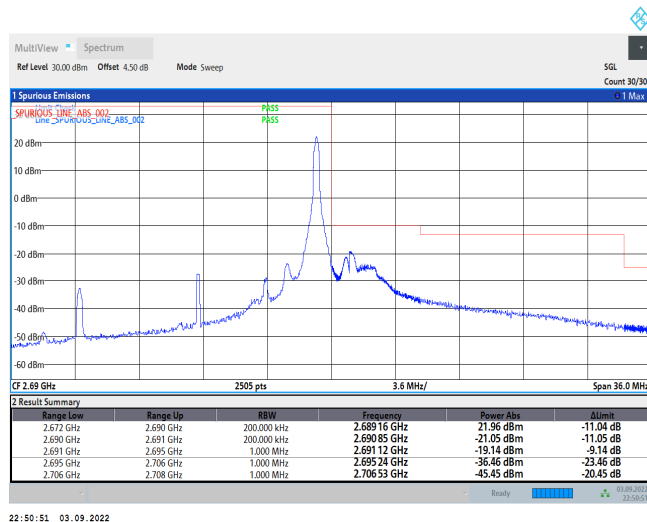
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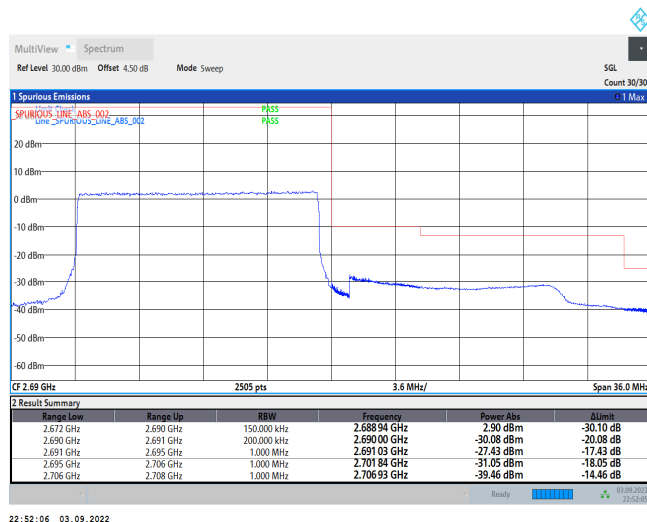
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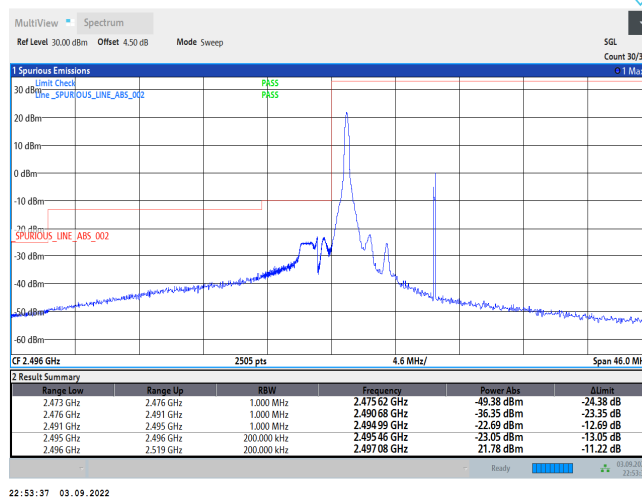
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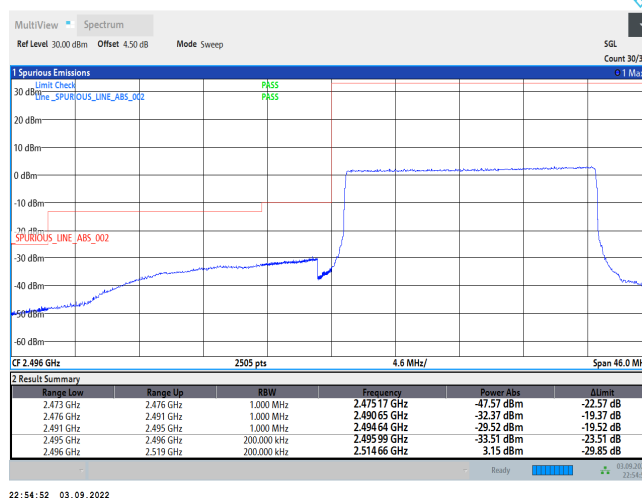
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Band41-20MHz-QPSK-39750-1RB#0



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



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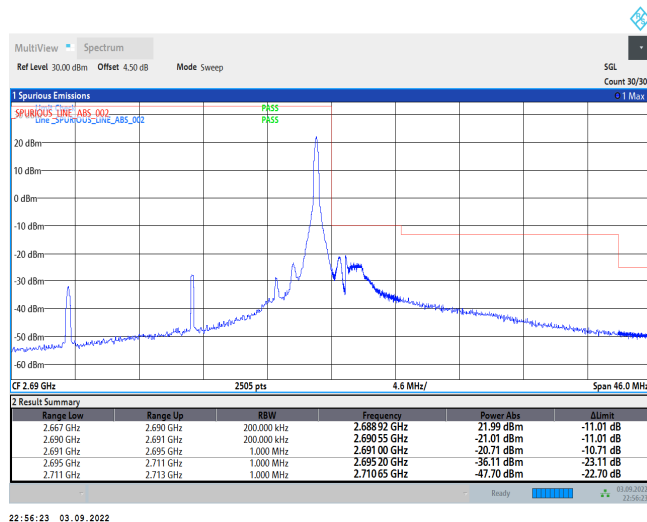
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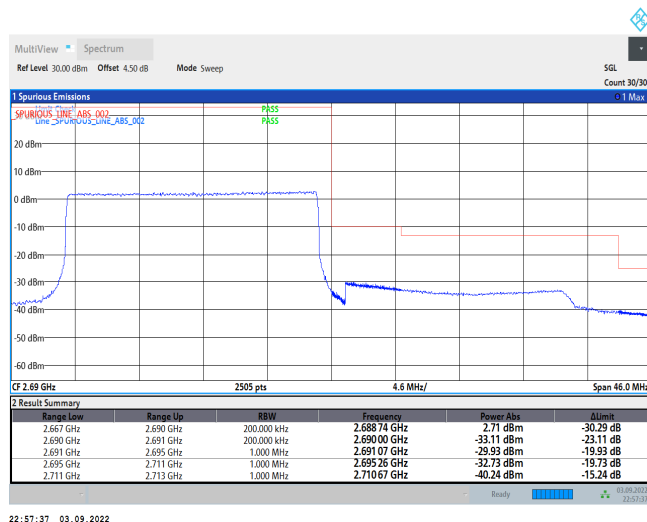
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Band41-20MHz-QPSK-41490-1RB#99



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



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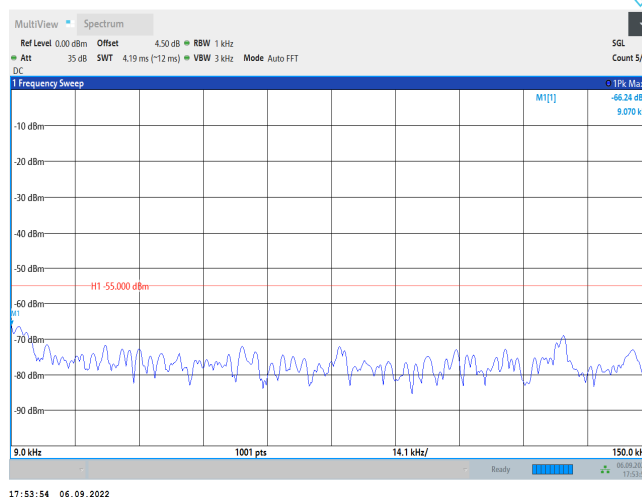
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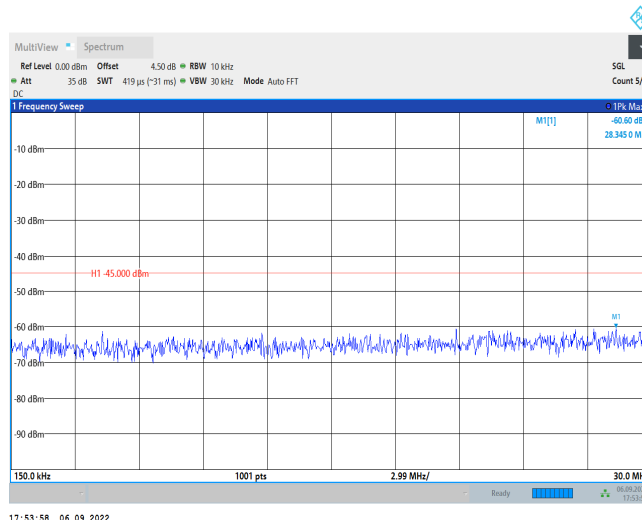
Conducted Spurious Emission

Test Graphs

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



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



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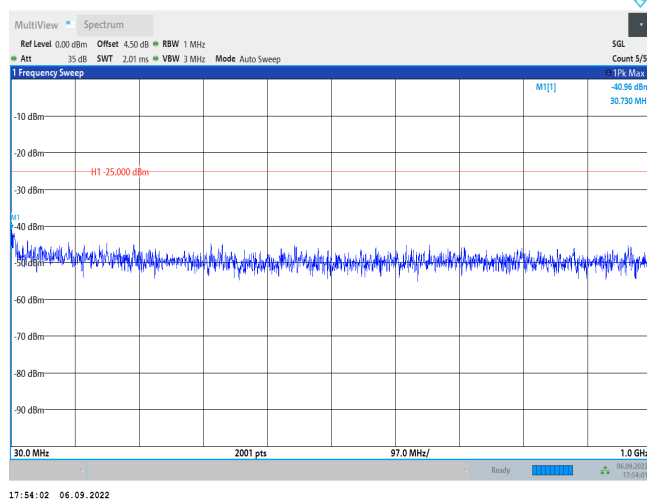
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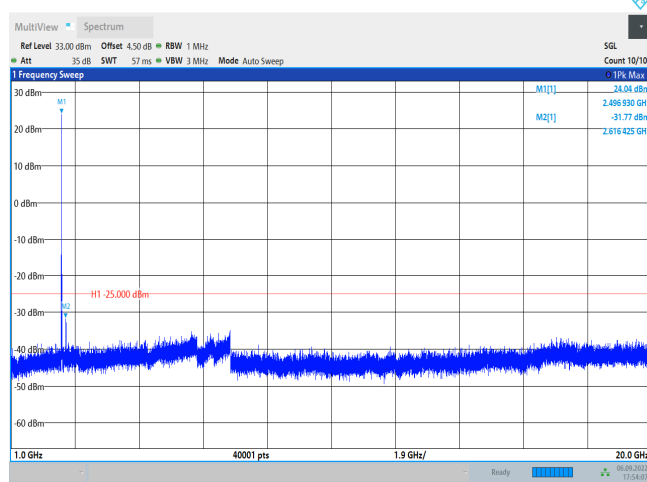
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Band41-20MHz-QPSK-39750-1RB#0-Range3:30~1000MHz



17:54:02 06.09.2022

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



17:54:07 06.09.2022



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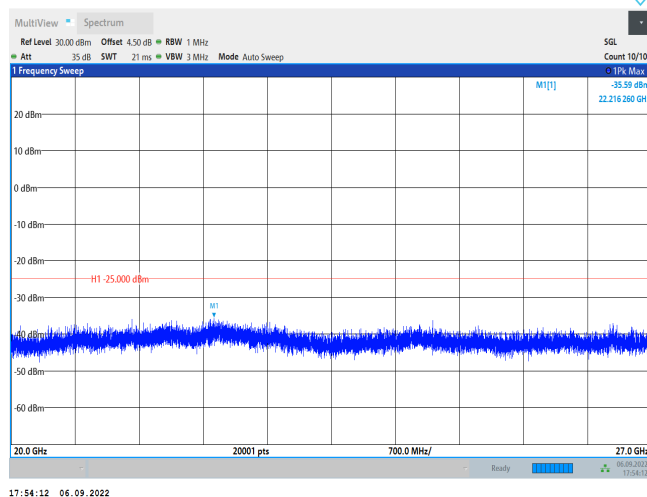
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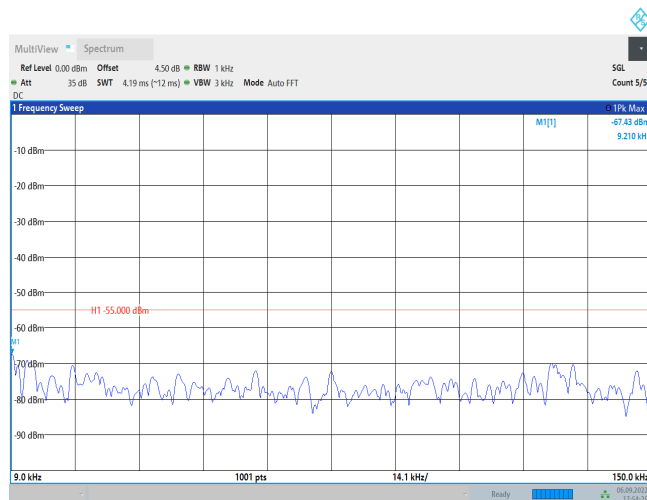
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Band41-20MHz-QPSK-39750-1RB#0-Range5:20000~27000MHz



17:54:12 06.09.2022

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



17:54:26 06.09.2022



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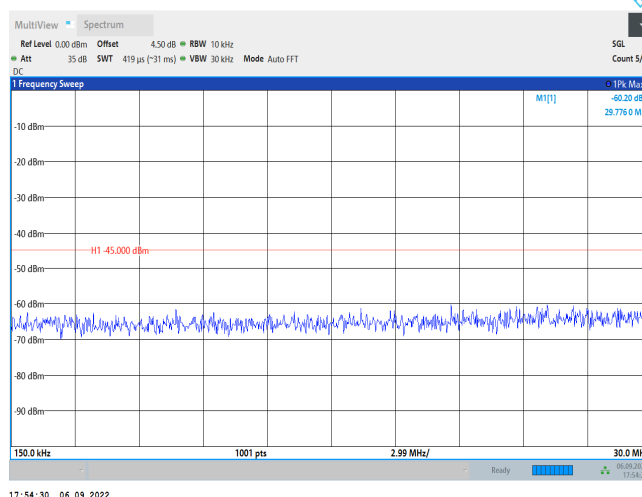
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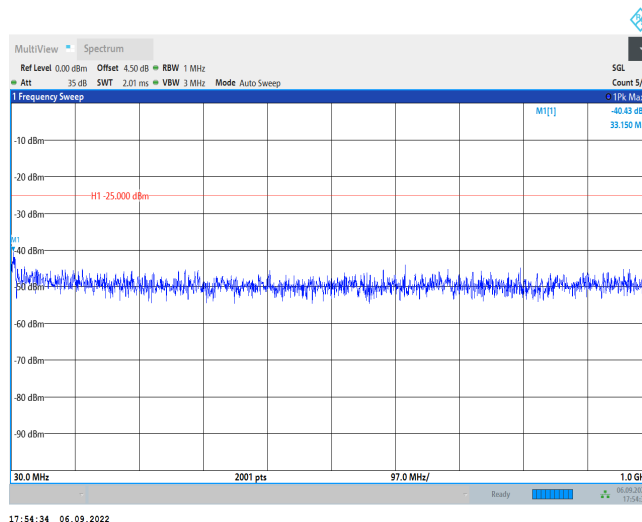
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Band41-20MHz-QPSK-40620-1RB#0-Range2:0.15~30MHz



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



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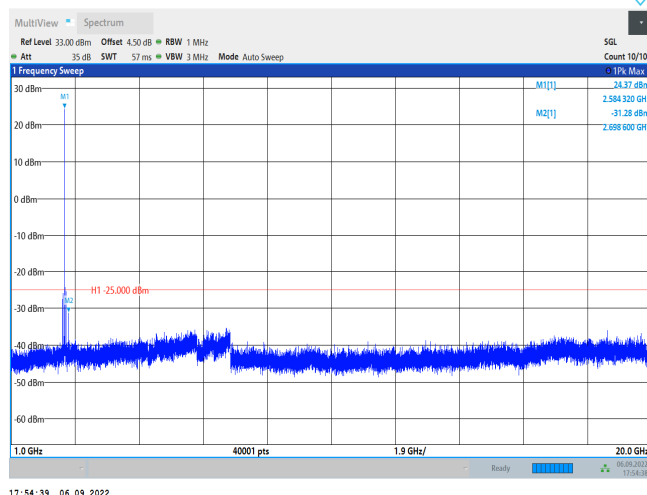
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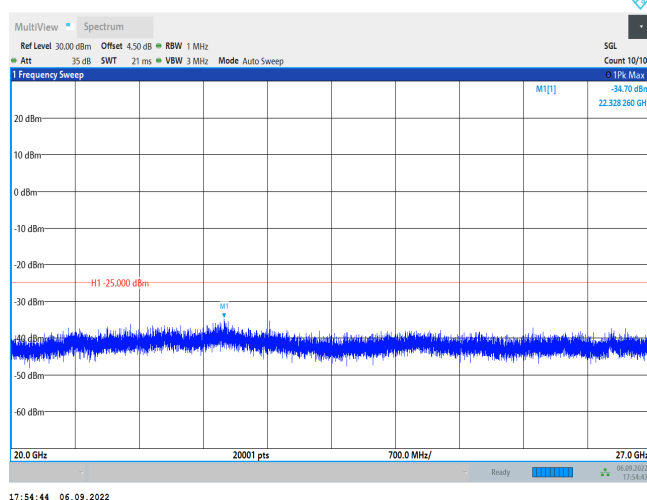
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Band41-20MHz-QPSK-40620-1RB#0-Range4:1000~20000MHz



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



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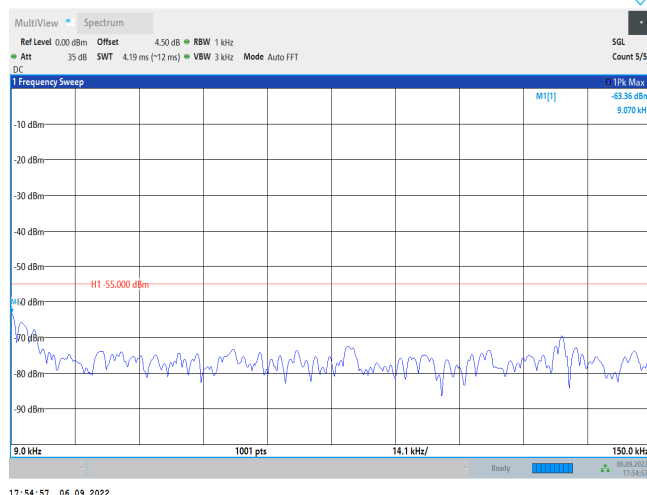
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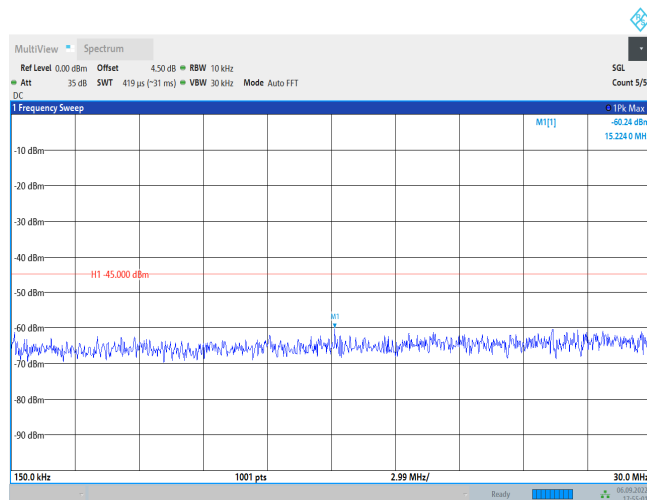
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Band41-20MHz-QPSK-41490-1RB#0-Range1:0.009~0.15MHz



17:54:57 06.09.2022

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



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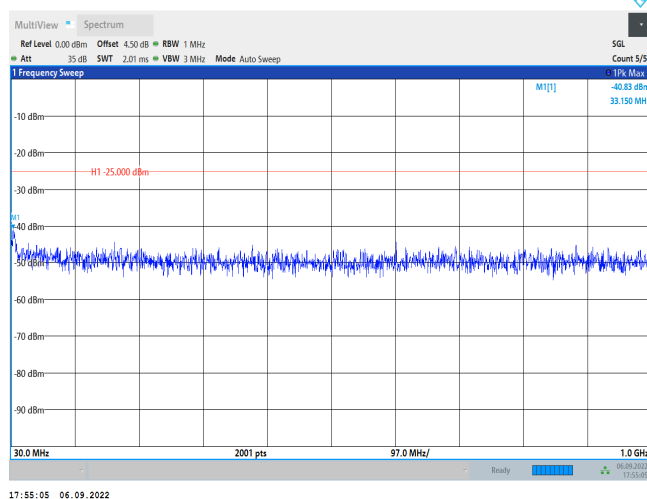
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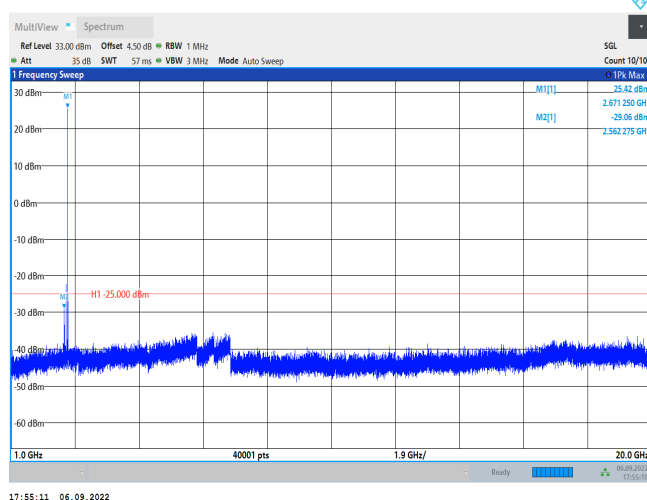
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Band41-20MHz-QPSK-41490-1RB#0-Range3:30~1000MHz



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



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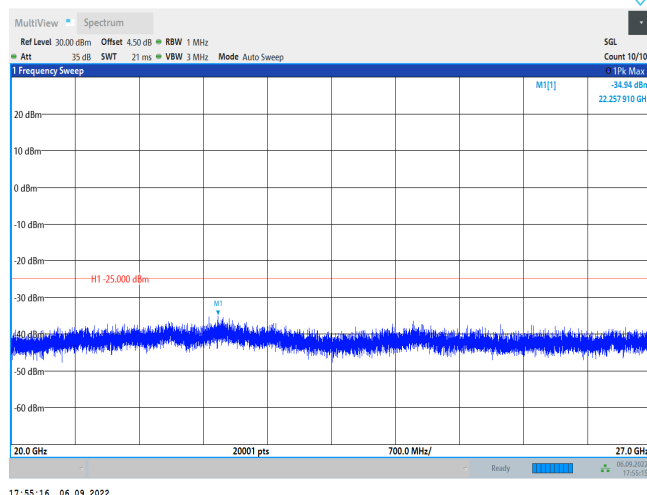
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Band41-20MHz-QPSK-41490-1RB#0-Range5:20000~27000MHz



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Field Strength of Spurious Radiation

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	53.34	-45.63	32.86	-54.69	-25.00	29.69	251	256	Horizontal
2	7491.2700	53.74	-43.16	36.44	-48.24	-25.00	23.24	145	1	Horizontal
3	9988.3600	39.90	-39.25	38.47	-56.14	-25.00	31.14	263	225	Horizontal
4	12485.4500	33.34	-37.04	39.16	-59.80	-25.00	34.80	215	270	Horizontal
5	14982.5400	32.57	-34.64	39.26	-58.07	-25.00	33.07	198	0	Horizontal
6	17479.6300	35.00	-35.10	39.13	-56.23	-25.00	31.23	145	346	Horizontal

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	54.77	-45.63	32.86	-53.26	-25.00	28.26	211	334	Vertical
2	7491.2700	57.58	-43.16	36.44	-44.40	-25.00	19.40	142	347	Vertical
3	9988.3600	39.41	-39.25	38.47	-56.63	-25.00	31.63	230	103	Vertical
4	12485.4500	35.05	-37.04	39.16	-58.09	-25.00	33.09	261	73	Vertical
5	14982.5400	31.26	-34.64	39.26	-59.38	-25.00	34.38	133	16	Vertical
6	17479.6300	35.08	-35.10	39.13	-56.15	-25.00	31.15	186	16	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	3584.25	51.82	-46.15	29.60	-59.99	-25.00	34.99	215	226	Horizontal
2	5168.1800	50.06	-45.31	32.97	-57.54	-25.00	32.54	196	272	Horizontal
3	7752.2700	47.48	-42.69	36.69	-53.78	-25.00	28.78	164	60	Horizontal
4	10336.3600	38.19	-39.06	38.84	-57.29	-25.00	32.29	185	212	Horizontal
5	12920.4500	35.35	-37.16	39.75	-57.32	-25.00	32.32	123	181	Horizontal
6	15504.5400	32.26	-35.35	38.57	-59.78	-25.00	34.78	174	181	Horizontal

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	3951.75	52.43	-46.16	30.69	-58.30	-25.00	33.30	263	256	Vertical
2	5168.1800	50.76	-45.31	32.97	-56.84	-25.00	31.84	251	15	Vertical
3	7752.2700	49.65	-42.69	36.69	-51.61	-25.00	26.61	155	107	Vertical
4	10336.3600	38.05	-39.06	38.84	-57.43	-25.00	32.43	148	346	Vertical
5	12920.4500	34.80	-37.16	39.75	-57.87	-25.00	32.87	175	330	Vertical
6	15504.5400	31.48	-35.35	38.57	-60.56	-25.00	35.56	133	151	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	3771	51.17	-45.80	30.23	-59.66	-25.00	34.66	166	252	Horizontal
2	5342.1800	49.81	-45.18	32.85	-57.77	-25.00	32.77	232	286	Horizontal
3	8013.2700	45.02	-42.21	37.01	-55.44	-25.00	30.44	125	130	Horizontal
4	10684.3600	36.32	-37.97	39.13	-57.78	-25.00	32.78	148	86	Horizontal
5	13355.4500	34.11	-36.56	40.10	-57.61	-25.00	32.61	191	300	Horizontal
6	16026.5400	32.56	-34.85	37.83	-59.73	-25.00	34.73	170	286	Horizontal

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	3849	51.29	-46.10	30.45	-59.62	-25.00	34.62	255	72	Vertical
2	5342.1800	53.82	-45.18	32.85	-53.76	-25.00	28.76	142	314	Vertical
3	8013.2700	49.64	-42.21	37.01	-50.82	-25.00	25.82	136	314	Vertical
4	10684.3600	36.57	-37.97	39.13	-57.53	-25.00	32.53	266	117	Vertical
5	13355.4500	33.95	-36.56	40.10	-57.77	-25.00	32.77	215	2	Vertical
6	16026.5400	33.02	-34.85	37.83	-59.27	-25.00	34.27	185	160	Vertical



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Test Band = LTE 41A_42A_TM1**Test Channel = Low 3450-3550**

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	37.61	-19.47	32.87	-44.25	-13.00	31.25	256	1	Horizontal
2	6902.1800	45.44	-43.88	35.96	-57.73	-13.00	44.73	185	61	Horizontal
3	7491.2700	43.65	-43.14	36.44	-58.30	-13.00	45.30	132	16	Horizontal
4	9988.3600	34.13	-39.36	38.47	-62.01	-13.00	49.01	310	196	Horizontal
5	10353.2700	30.54	-38.84	38.85	-64.71	-13.00	51.71	154	354	Horizontal
6	13804.3600	30.35	-36.22	39.96	-61.16	-13.00	48.16	199	61	Horizontal

Test Band = LTE 41A_42A_TM1**Test Channel = Low 3450-3550**

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	37.79	-19.47	32.87	-44.07	-13.00	31.07	154	2	Vertical
2	6902.1800	45.71	-43.88	35.96	-57.46	-13.00	44.46	126	292	Vertical
3	7491.2700	42.71	-43.14	36.44	-59.24	-13.00	46.24	281	360	Vertical
4	9988.3600	34.28	-39.36	38.47	-61.86	-13.00	48.86	145	4	Vertical
5	10353.2700	32.37	-38.84	38.85	-62.88	-13.00	49.88	192	123	Vertical
6	13804.3600	29.51	-36.22	39.96	-62.00	-13.00	49.00	170	59	Vertical



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Test Band = LTE 41A_42A_TM1**Test Channel = Mid 3450-3550**

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5168.1800	37.37	-19.09	32.97	-44.01	-13.00	31.01	145	11	Horizontal
2	6982.1800	46.30	-43.15	36.06	-56.05	-13.00	43.05	175	346	Horizontal
3	7752.2700	41.87	-42.76	36.69	-59.46	-13.00	46.46	142	166	Horizontal
4	10336.3600	31.47	-38.88	38.84	-63.82	-13.00	50.82	132	166	Horizontal
5	10473.2700	31.75	-38.75	38.93	-63.33	-13.00	50.33	261	258	Horizontal
6	13964.3600	27.85	-35.06	40.11	-62.36	-13.00	49.36	199	318	Horizontal

Test Band = LTE 41A_42A_TM1**Test Channel = Mid 3450-3550**

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5168.1800	37.34	-19.09	32.97	-44.04	-13.00	31.04	217	58	Vertical
2	6982.1800	45.55	-43.15	36.06	-56.80	-13.00	43.80	158	358	Vertical
3	7752.2700	42.46	-42.76	36.69	-58.87	-13.00	45.87	194	360	Vertical
4	10336.3600	31.92	-38.88	38.84	-63.37	-13.00	50.37	175	346	Vertical
5	10473.2700	30.59	-38.75	38.93	-64.49	-13.00	51.49	125	75	Vertical
6	13964.3600	27.99	-35.06	40.11	-62.22	-13.00	49.22	140	359	Vertical



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Test Band = LTE 41A_42A_TM1
Test Channel = High 3450-3550

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	38.63	-18.88	32.85	-42.66	-13.00	29.66	145	32	Horizontal
2	7062.1800	45.79	-43.41	36.24	-56.64	-13.00	43.64	255	30	Horizontal
3	8013.2700	41.43	-42.02	37.01	-58.84	-13.00	45.84	148	274	Horizontal
4	10593.2700	32.39	-38.06	39.05	-61.88	-13.00	48.88	196	76	Horizontal
5	10684.3600	31.55	-37.57	39.13	-62.15	-13.00	49.15	172	359	Horizontal
6	14124.3600	27.74	-35.87	40.20	-63.19	-13.00	50.19	140	14	Horizontal

Test Band = LTE 41A_42A_TM1
Test Channel = High 3450-3550

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	37.89	-18.88	32.85	-43.40	-13.00	30.40	222	114	Vertical
2	7062.1800	47.22	-43.41	36.24	-55.21	-13.00	42.21	133	347	Vertical
3	8013.2700	41.42	-42.02	37.01	-58.85	-13.00	45.85	251	198	Vertical
4	10593.2700	32.07	-38.06	39.05	-62.20	-13.00	49.20	148	360	Vertical
5	10684.3600	30.49	-37.57	39.13	-63.21	-13.00	50.21	195	44	Vertical
6	14124.3600	27.23	-35.87	40.20	-63.70	-13.00	50.70	105	304	Vertical



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Test Band = LTE 41A_42A_TM1

Test Channel = Low 3550-3600

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6902.1800	45.10	-43.88	35.96	-58.07	-40.00	18.07	142	360	Horizontal
2	7491.2700	43.52	-43.14	36.44	-58.43	-40.00	18.43	133	355	Horizontal
3	8533.2	44.09	-41.50	37.61	-55.06	-40.00	15.06	100	4	Horizontal
4	9988.3600	34.74	-39.36	38.47	-61.40	-40.00	21.40	258	305	Horizontal
5	10353.2700	33.37	-38.84	38.85	-61.88	-40.00	21.88	149	360	Horizontal
6	13804.3600	30.74	-36.22	39.96	-60.77	-40.00	20.77	178	45	Horizontal

Test Band = LTE 41A_42A_TM1

Test Channel = Low 3550-3600

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6902.1800	45.41	-43.88	35.96	-57.76	-40.00	17.76	154	359	Vertical
2	7491.2700	44.98	-43.14	36.44	-56.97	-40.00	16.97	178	44	Vertical
3	8410.725	45.33	-41.42	37.35	-53.99	-40.00	13.99	100	302	Vertical
4	9988.3600	34.80	-39.36	38.47	-61.34	-40.00	21.34	196	354	Vertical
5	10353.2700	32.80	-38.84	38.85	-62.45	-40.00	22.45	142	182	Vertical
6	13804.3600	30.87	-36.22	39.96	-60.64	-40.00	20.64	156	360	Vertical



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Test Band = LTE 41A_42A_TM1
Test Channel = Mid 3550-3600

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6982.1800	47.09	-43.15	36.06	-55.26	-40.00	15.26	145	135	Horizontal
2	7752.2700	43.93	-42.76	36.69	-57.40	-40.00	17.40	254	213	Horizontal
3	8574.6	43.76	-41.12	37.70	-54.92	-40.00	14.92	100	4	Horizontal
4	10336.3600	33.60	-38.88	38.84	-61.69	-40.00	21.69	175	44	Horizontal
5	10473.2700	33.64	-38.75	38.93	-61.44	-40.00	21.44	143	213	Horizontal
6	13964.3600	30.01	-35.06	40.11	-60.20	-40.00	20.20	236	14	Horizontal

Test Band = LTE 41A_42A_TM1
Test Channel = Mid 3550-3600

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6982.1800	45.32	-43.15	36.06	-57.03	-40.00	17.03	145	359	Vertical
2	7752.2700	43.21	-42.76	36.69	-58.12	-40.00	18.12	184	78	Vertical
3	9435.95	41.49	-39.93	38.48	-55.22	-40.00	15.22	100	168	Vertical
4	10336.3600	33.35	-38.88	38.84	-61.94	-40.00	21.94	169	4	Vertical
5	10473.2700	32.88	-38.75	38.93	-62.20	-40.00	22.20	251	360	Vertical
6	13964.3600	28.82	-35.06	40.11	-61.39	-40.00	21.39	175	337	Vertical



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Test Band = LTE 41A_42A_TM1
Test Channel = High 3550-3600

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7062.1800	45.74	-43.41	36.24	-56.69	-40.00	16.69	186	74	Horizontal
2	8013.2700	43.48	-42.02	37.01	-56.79	-40.00	16.79	152	149	Horizontal
3	8409.575	45.67	-41.41	37.35	-53.65	-40.00	13.65	154	60	Horizontal
4	10593.2700	32.08	-38.06	39.05	-62.19	-40.00	22.19	132	120	Horizontal
5	10684.3600	31.54	-37.57	39.13	-62.16	-40.00	22.16	269	149	Horizontal
6	14124.3600	29.74	-35.87	40.20	-61.19	-40.00	21.19	142	149	Horizontal

Test Band = LTE 41A_42A_TM1
Test Channel = High 3550-3600

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7062.1800	45.62	-43.41	36.24	-56.81	-40.00	16.81	188	167	Vertical
2	8013.2700	43.32	-42.02	37.01	-56.95	-40.00	16.95	196	74	Vertical
3	10593.2700	32.19	-38.06	39.05	-62.08	-40.00	22.08	251	360	Vertical
4	10684.3600	32.56	-37.57	39.13	-61.14	-40.00	21.14	148	74	Vertical
5	12785.9	33.35	-36.65	39.61	-58.95	-40.00	18.95	100	183	Vertical
6	14124.3600	27.66	-35.87	40.20	-63.27	-40.00	23.27	175	274	Vertical

Remark:

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

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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Frequency Stability

Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band41	20MHz	QPSK	40620	100RB#0	VL	NT	-2.00	-0.000771	PASS
Band41	20MHz	QPSK	40620	100RB#0	VN	NT	2.80	0.001080	PASS
Band41	20MHz	QPSK	40620	100RB#0	VH	NT	0.10	0.000039	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band41	20MHz	QPSK	40620	100RB#0	NV	-30	-0.60	-0.000231	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-20	2.10	0.000810	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-10	1.10	0.000424	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	0	2.20	0.000848	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	10	1.50	0.000578	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	20	-2.00	-0.000771	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	30	1.70	0.000656	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	40	-0.30	-0.000116	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	50	-0.80	-0.000309	PASS

---End of Attachment---



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