

Appendix B.16

LTE CA_41C



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Effective (Isotropic) Radiated Power Output Data

Test Result

ANT31

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
41-41	10MHz-15MHz	QPSK-QPSK	39703-39823	1RB#0-0RB#0	23.69	21.39	33.00	PASS
41-41	10MHz-15MHz	QPSK-QPSK	39703-39823	50RB#0-75RB#0	22.56	20.26	33.00	PASS
41-41	10MHz-15MHz	QPSK-QPSK	40549-40669	1RB#0-0RB#0	23.83	21.53	33.00	PASS
41-41	10MHz-15MHz	QPSK-QPSK	40549-40669	50RB#0-75RB#0	22.68	20.38	33.00	PASS
41-41	10MHz-15MHz	QPSK-QPSK	41395-41515	1RB#0-0RB#0	23.56	21.26	33.00	PASS
41-41	10MHz-15MHz	QPSK-QPSK	41395-41515	50RB#0-75RB#0	22.59	20.29	33.00	PASS
41-41	10MHz-15MHz	16QAM-16QAM	39703-39823	1RB#0-0RB#0	22.95	20.65	33.00	PASS
41-41	10MHz-15MHz	16QAM-16QAM	39703-39823	50RB#0-75RB#0	21.58	19.28	33.00	PASS
41-41	10MHz-15MHz	16QAM-16QAM	40549-40669	1RB#0-0RB#0	23.06	20.76	33.00	PASS
41-41	10MHz-15MHz	16QAM-16QAM	40549-40669	50RB#0-75RB#0	21.70	19.40	33.00	PASS
41-41	10MHz-15MHz	16QAM-16QAM	41395-41515	1RB#0-0RB#0	22.91	20.61	33.00	PASS
41-41	10MHz-15MHz	16QAM-16QAM	41395-41515	50RB#0-75RB#0	21.61	19.31	33.00	PASS
41-41	10MHz-15MHz	64QAM-64QAM	39703-39823	1RB#0-0RB#0	21.49	19.19	33.00	PASS
41-41	10MHz-15MHz	64QAM-64QAM	39703-39823	50RB#0-75RB#0	21.58	19.28	33.00	PASS
41-41	10MHz-15MHz	64QAM-64QAM	40549-40669	1RB#0-0RB#0	21.58	19.28	33.00	PASS
41-41	10MHz-15MHz	64QAM-64QAM	40549-40669	50RB#0-75RB#0	21.72	19.42	33.00	PASS
41-41	10MHz-15MHz	64QAM-64QAM	41395-41515	1RB#0-0RB#0	21.52	19.22	33.00	PASS
41-41	10MHz-15MHz	64QAM-64QAM	41395-41515	50RB#0-75RB#0	21.65	19.35	33.00	PASS
41-41	10MHz-20MHz	QPSK-QPSK	39705-39849	1RB#0-0RB#0	23.69	21.39	33.00	PASS
41-41	10MHz-20MHz	QPSK-QPSK	39705-39849	50RB#0-100RB#0	22.56	20.26	33.00	PASS
41-41	10MHz-20MHz	QPSK-QPSK	40526-40670	1RB#0-0RB#0	23.76	21.46	33.00	PASS
41-41	10MHz-20MHz	QPSK-QPSK	40526-40670	50RB#0-100RB#0	22.66	20.36	33.00	PASS
41-41	10MHz-20MHz	QPSK-QPSK	41346-41490	1RB#0-0RB#0	23.66	21.36	33.00	PASS
41-41	10MHz-20MHz	QPSK-QPSK	41346-41490	50RB#0-100RB#0	22.51	20.21	33.00	PASS
41-41	10MHz-20MHz	16QAM-16QAM	39705-39849	1RB#0-0RB#0	22.93	20.63	33.00	PASS
41-41	10MHz-20MHz	16QAM-16QAM	39705-39849	50RB#0-100RB#0	21.58	19.28	33.00	PASS
41-41	10MHz-20MHz	16QAM-16QAM	40526-40670	1RB#0-0RB#0	23.01	20.71	33.00	PASS



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Table with 9 columns: Item ID, Frequency, Modulation, Standard, Test Method, and three Pass/Fail metrics. All entries show 'PASS' results.



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Rev.: 01

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Table with 9 columns: Item ID, Frequency, Modulation, ID1, ID2, Value1, Value2, Value3, Result. Contains 40 rows of test data.



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SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd. Wireless Laboratory

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41-41	20MHz-10MHz	QPSK-QPSK	39750-39894	100RB#0-50RB#0	22.40	20.10	33.00	PASS
41-41	20MHz-10MHz	QPSK-QPSK	39750-39894	1RB#0-0RB#0	23.62	21.32	33.00	PASS
41-41	20MHz-10MHz	QPSK-QPSK	40571-40715	100RB#0-50RB#0	22.61	20.31	33.00	PASS
41-41	20MHz-10MHz	QPSK-QPSK	40571-40715	1RB#0-0RB#0	23.70	21.40	33.00	PASS
41-41	20MHz-10MHz	QPSK-QPSK	41391-41535	100RB#0-50RB#0	22.49	20.19	33.00	PASS
41-41	20MHz-10MHz	QPSK-QPSK	41391-41535	1RB#0-0RB#0	23.58	21.28	33.00	PASS
41-41	20MHz-10MHz	16QAM-16QAM	39750-39894	100RB#0-100RB#0	20.78	18.48	33.00	PASS
41-41	20MHz-10MHz	16QAM-16QAM	39750-39894	100RB#0-50RB#0	21.50	19.20	33.00	PASS
41-41	20MHz-10MHz	16QAM-16QAM	39750-39894	1RB#0-0RB#0	22.87	20.57	33.00	PASS
41-41	20MHz-10MHz	16QAM-16QAM	40571-40715	100RB#0-50RB#0	21.69	19.39	33.00	PASS
41-41	20MHz-10MHz	16QAM-16QAM	40571-40715	1RB#0-0RB#0	22.90	20.60	33.00	PASS
41-41	20MHz-10MHz	16QAM-16QAM	41391-41535	100RB#0-50RB#0	21.54	19.24	33.00	PASS
41-41	20MHz-10MHz	16QAM-16QAM	41391-41535	1RB#0-0RB#0	22.68	20.38	33.00	PASS
41-41	20MHz-10MHz	64QAM-64QAM	39750-39894	100RB#0-50RB#0	21.48	19.18	33.00	PASS
41-41	20MHz-10MHz	64QAM-64QAM	39750-39894	1RB#0-0RB#0	21.35	19.05	33.00	PASS
41-41	20MHz-10MHz	64QAM-64QAM	40571-40715	100RB#0-50RB#0	21.70	19.40	33.00	PASS
41-41	20MHz-10MHz	64QAM-64QAM	40571-40715	1RB#0-0RB#0	21.44	19.14	33.00	PASS
41-41	20MHz-10MHz	64QAM-64QAM	41391-41535	100RB#0-50RB#0	21.58	19.28	33.00	PASS
41-41	20MHz-10MHz	64QAM-64QAM	41391-41535	1RB#0-0RB#0	21.42	19.12	33.00	PASS
41-41	20MHz-15MHz	QPSK-QPSK	39750-39921	100RB#0-75RB#0	22.47	20.17	33.00	PASS
41-41	20MHz-15MHz	QPSK-QPSK	39750-39921	1RB#0-0RB#0	23.58	21.28	33.00	PASS
41-41	20MHz-15MHz	QPSK-QPSK	40546-40717	100RB#0-75RB#0	22.65	20.35	33.00	PASS
41-41	20MHz-15MHz	QPSK-QPSK	40546-40717	1RB#0-0RB#0	23.70	21.40	33.00	PASS
41-41	20MHz-15MHz	QPSK-QPSK	41341-41512	100RB#0-75RB#0	22.52	20.22	33.00	PASS
41-41	20MHz-15MHz	QPSK-QPSK	41341-41512	1RB#0-0RB#0	23.53	21.23	33.00	PASS
41-41	20MHz-15MHz	16QAM-16QAM	39750-39921	100RB#0-75RB#0	21.51	19.21	33.00	PASS
41-41	20MHz-15MHz	16QAM-16QAM	39750-39921	1RB#0-0RB#0	22.87	20.57	33.00	PASS
41-41	20MHz-15MHz	16QAM-16QAM	40546-40717	100RB#0-75RB#0	21.72	19.42	33.00	PASS
41-41	20MHz-15MHz	16QAM-16QAM	40546-40717	1RB#0-0RB#0	22.94	20.64	33.00	PASS
41-41	20MHz-15MHz	16QAM-16QAM	41341-41512	100RB#0-75RB#0	21.58	19.28	33.00	PASS
41-41	20MHz-15MHz	16QAM-16QAM	41341-41512	1RB#0-0RB#0	22.58	20.28	33.00	PASS
41-41	20MHz-15MHz	64QAM-64QAM	39750-39921	100RB#0-75RB#0	21.51	19.21	33.00	PASS



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Table with 9 columns: Item ID, Frequency, Modulation, Standard, Test Result, and Pass/Fail status. Contains 40 rows of test data.



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41-41	20MHz-5MHz	16QAM-16QAM	40595-40712	1RB#0-0RB#0	23.92	21.62	33.00	PASS
41-41	20MHz-5MHz	16QAM-16QAM	41440-41557	100RB#0-25RB#0	20.56	18.26	33.00	PASS
41-41	20MHz-5MHz	16QAM-16QAM	41440-41557	1RB#0-0RB#0	23.89	21.59	33.00	PASS
41-41	20MHz-5MHz	64QAM-64QAM	39750-39867	100RB#0-25RB#0	20.56	18.26	33.00	PASS
41-41	20MHz-5MHz	64QAM-64QAM	39750-39867	1RB#0-0RB#0	23.66	21.36	33.00	PASS
41-41	20MHz-5MHz	64QAM-64QAM	40595-40712	100RB#0-25RB#0	20.74	18.44	33.00	PASS
41-41	20MHz-5MHz	64QAM-64QAM	40595-40712	1RB#0-0RB#0	23.80	21.50	33.00	PASS
41-41	20MHz-5MHz	64QAM-64QAM	41440-41557	100RB#0-25RB#0	20.62	18.32	33.00	PASS
41-41	20MHz-5MHz	64QAM-64QAM	41440-41557	1RB#0-0RB#0	23.49	21.19	33.00	PASS
41-41	5MHz-20MHz	QPSK-QPSK	39683-39800	1RB#0-0RB#0	23.81	21.51	33.00	PASS
41-41	5MHz-20MHz	QPSK-QPSK	39683-39800	25RB#0-100RB#0	22.68	20.38	33.00	PASS
41-41	5MHz-20MHz	QPSK-QPSK	40528-40645	1RB#0-0RB#0	23.82	21.52	33.00	PASS
41-41	5MHz-20MHz	QPSK-QPSK	40528-40645	25RB#0-100RB#0	22.73	20.43	33.00	PASS
41-41	5MHz-20MHz	QPSK-QPSK	41373-41490	1RB#0-0RB#0	23.76	21.46	33.00	PASS
41-41	5MHz-20MHz	QPSK-QPSK	41373-41490	25RB#0-100RB#0	22.59	20.29	33.00	PASS
41-41	5MHz-20MHz	16QAM-16QAM	39683-39800	1RB#0-0RB#0	22.92	20.62	33.00	PASS
41-41	5MHz-20MHz	16QAM-16QAM	39683-39800	25RB#0-100RB#0	21.74	19.44	33.00	PASS
41-41	5MHz-20MHz	16QAM-16QAM	40528-40645	1RB#0-0RB#0	23.03	20.73	33.00	PASS
41-41	5MHz-20MHz	16QAM-16QAM	40528-40645	25RB#0-100RB#0	21.76	19.46	33.00	PASS
41-41	5MHz-20MHz	16QAM-16QAM	41373-41490	1RB#0-0RB#0	22.89	20.59	33.00	PASS
41-41	5MHz-20MHz	16QAM-16QAM	41373-41490	25RB#0-100RB#0	21.66	19.36	33.00	PASS
41-41	5MHz-20MHz	64QAM-64QAM	39683-39800	1RB#0-0RB#0	21.75	19.45	33.00	PASS
41-41	5MHz-20MHz	64QAM-64QAM	39683-39800	25RB#0-100RB#0	21.72	19.42	33.00	PASS
41-41	5MHz-20MHz	64QAM-64QAM	40528-40645	1RB#0-0RB#0	21.59	19.29	33.00	PASS
41-41	5MHz-20MHz	64QAM-64QAM	40528-40645	25RB#0-100RB#0	21.76	19.46	33.00	PASS
41-41	5MHz-20MHz	64QAM-64QAM	41373-41490	1RB#0-0RB#0	21.75	19.45	33.00	PASS
41-41	5MHz-20MHz	64QAM-64QAM	41373-41490	25RB#0-100RB#0	21.64	19.34	33.00	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

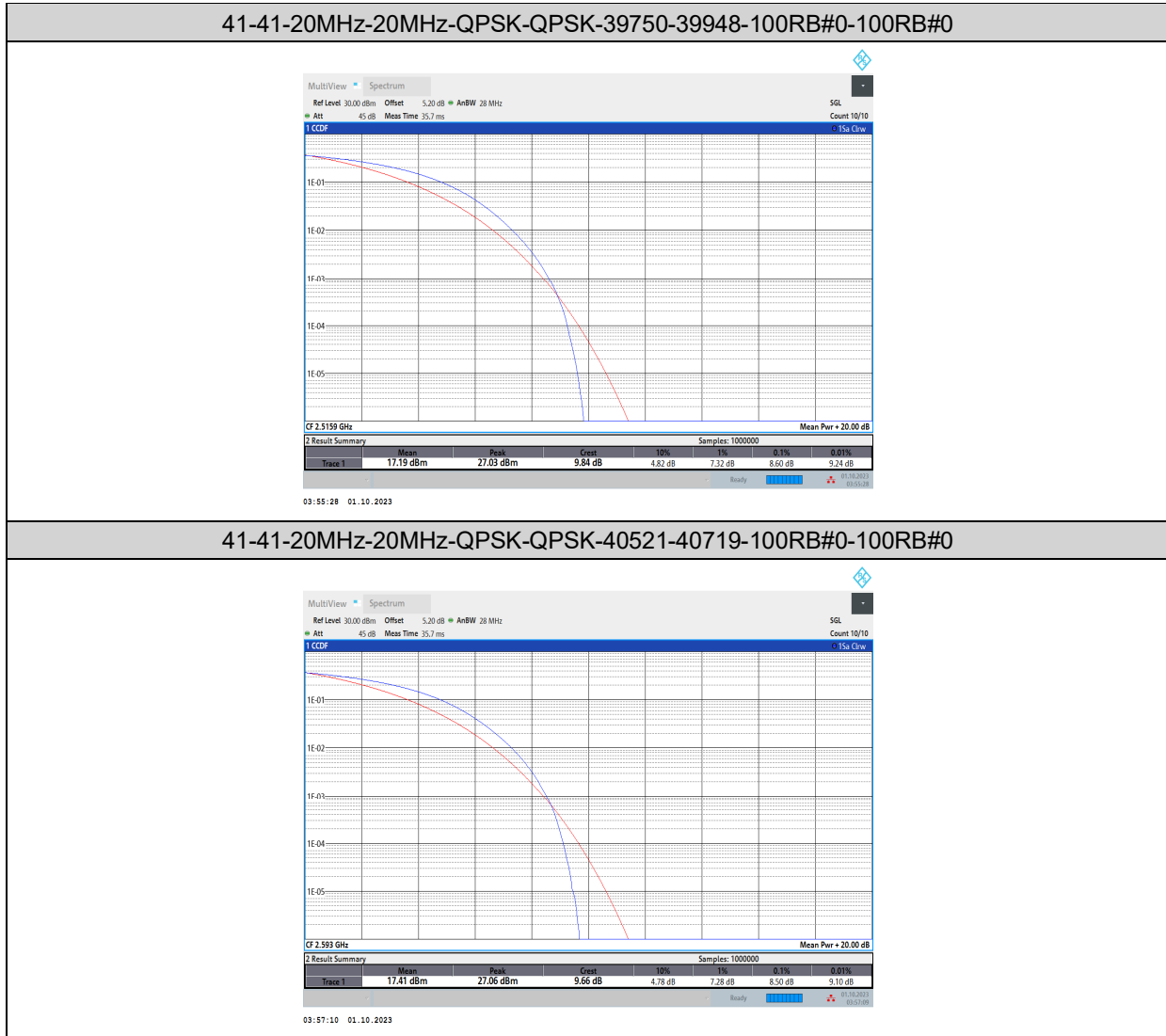
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
41-41	20MHz-20MHz	QPSK-QPSK	39750-39948	100RB#0-100RB#0	8.60	13	PASS
41-41	20MHz-20MHz	QPSK-QPSK	40521-40719	100RB#0-100RB#0	8.50	13	PASS
41-41	20MHz-20MHz	QPSK-QPSK	41292-41490	100RB#0-100RB#0	8.32	13	PASS
41-41	20MHz-20MHz	16QAM-16QAM	39750-39948	100RB#0-100RB#0	9.48	13	PASS
41-41	20MHz-20MHz	16QAM-16QAM	40521-40719	100RB#0-100RB#0	9.34	13	PASS
41-41	20MHz-20MHz	16QAM-16QAM	41292-41490	100RB#0-100RB#0	9.22	13	PASS
41-41	20MHz-20MHz	64QAM-64QAM	39750-39948	100RB#0-100RB#0	9.96	13	PASS
41-41	20MHz-20MHz	64QAM-64QAM	40521-40719	100RB#0-100RB#0	9.90	13	PASS
41-41	20MHz-20MHz	64QAM-64QAM	41292-41490	100RB#0-100RB#0	9.52	13	PASS



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Test Graphs

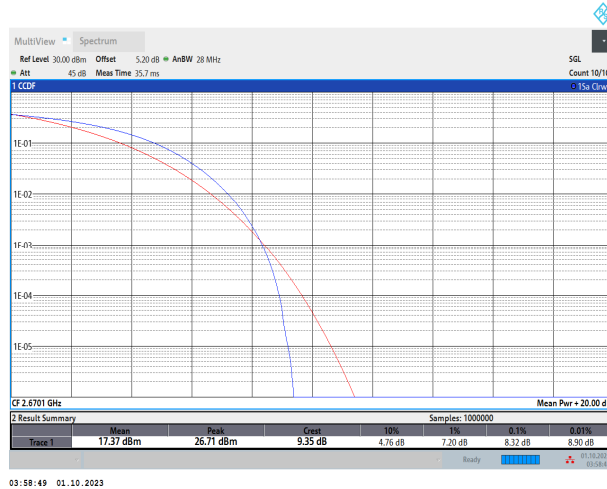


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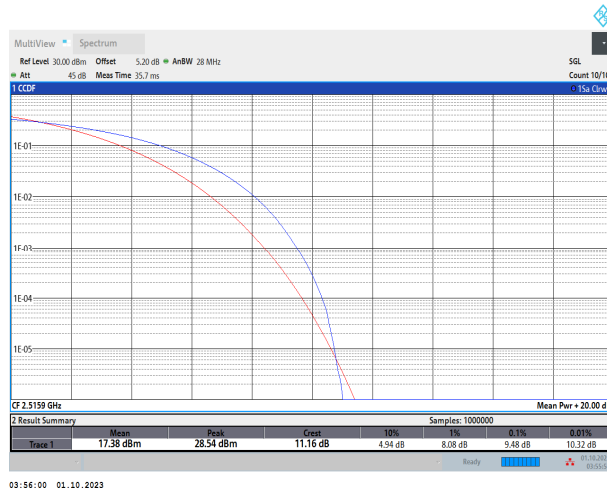
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41-41-20MHz-20MHz-QPSK-QPSK-41292-41490-100RB#0-100RB#0



41-41-20MHz-20MHz-16QAM-16QAM-39750-39948-100RB#0-100RB#0

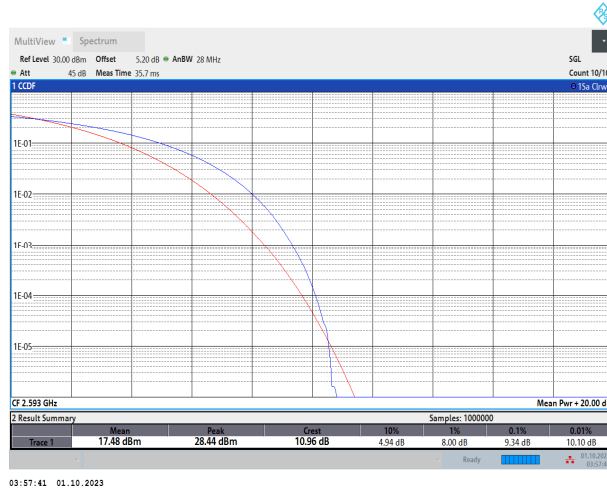


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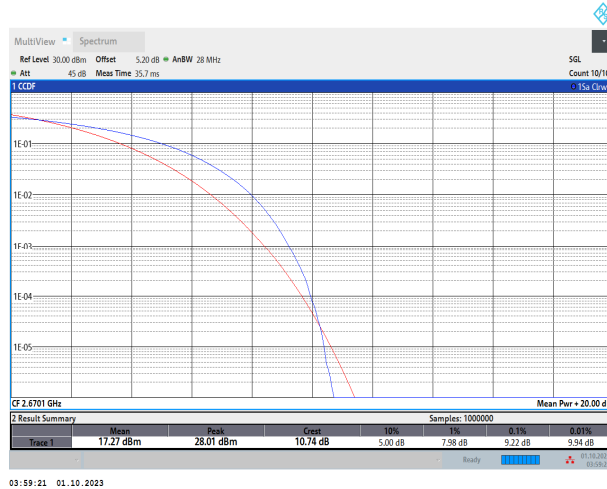
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41-41-20MHz-20MHz-16QAM-16QAM-40521-40719-100RB#0-100RB#0



41-41-20MHz-20MHz-16QAM-16QAM-41292-41490-100RB#0-100RB#0

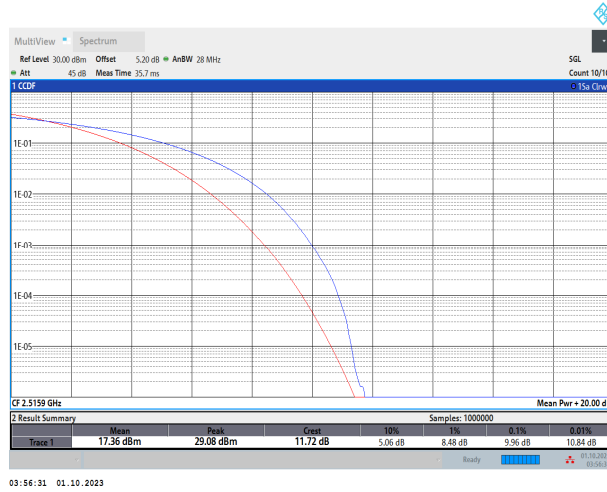


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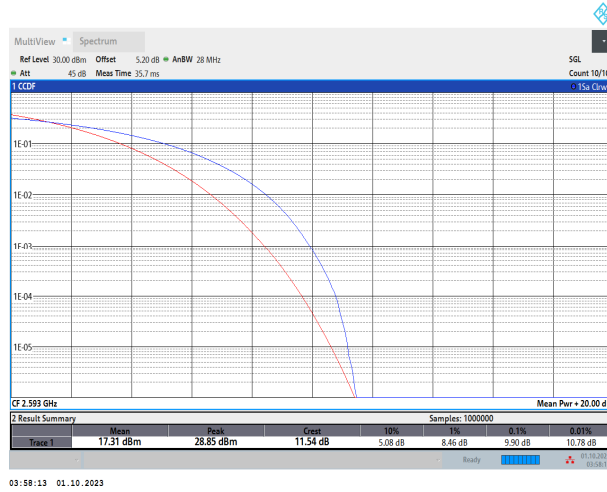
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41-41-20MHz-20MHz-64QAM-64QAM-39750-39948-100RB#0-100RB#0



41-41-20MHz-20MHz-64QAM-64QAM-40521-40719-100RB#0-100RB#0

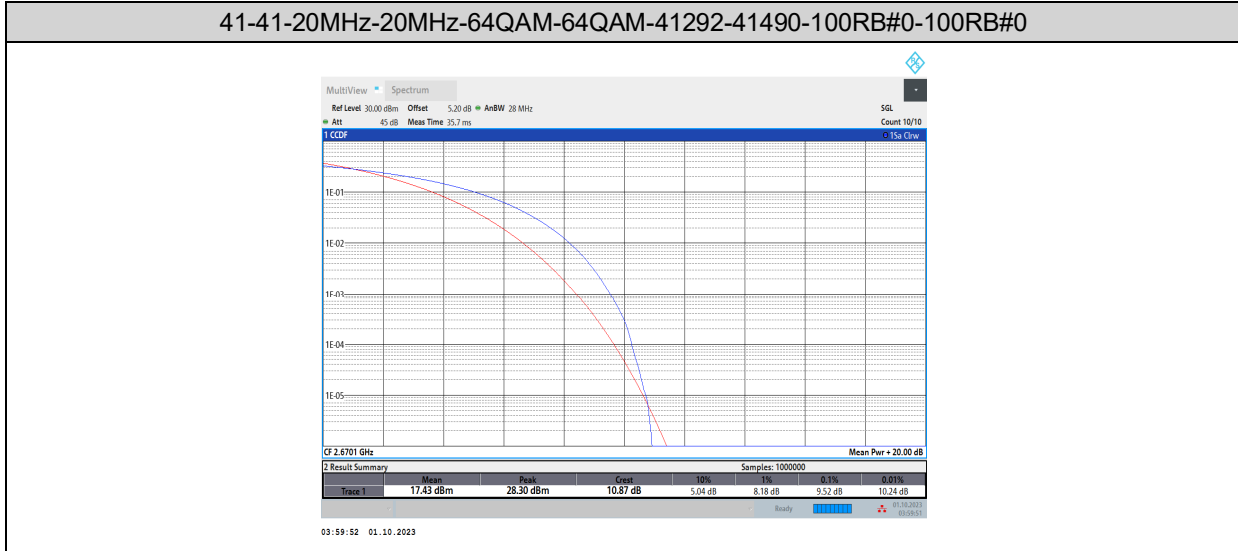


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41-41-20MHz-20MHz-64QAM-64QAM-41292-41490-100RB#0-100RB#0



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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
41-41	10MHz-15MHz	QPSK-QPSK	40549-40669	50RB#0-75RB#0	23.14	25.15	PASS
41-41	10MHz-15MHz	16QAM-16QAM	40549-40669	50RB#0-75RB#0	23.145	25.35	PASS
41-41	10MHz-15MHz	64QAM-64QAM	40549-40669	50RB#0-75RB#0	23.091	24.65	PASS
41-41	10MHz-20MHz	QPSK-QPSK	40526-40670	50RB#0-100RB#0	27.807	29.52	PASS
41-41	10MHz-20MHz	16QAM-16QAM	40526-40670	50RB#0-100RB#0	27.73	29.88	PASS
41-41	10MHz-20MHz	64QAM-64QAM	40526-40670	50RB#0-100RB#0	27.749	31.14	PASS
41-41	15MHz-10MHz	QPSK-QPSK	40571-40691	75RB#0-50RB#0	23.196	25.55	PASS
41-41	15MHz-10MHz	16QAM-16QAM	40571-40691	75RB#0-50RB#0	23.123	25.55	PASS
41-41	15MHz-10MHz	64QAM-64QAM	40571-40691	75RB#0-50RB#0	23.127	27.10	PASS
41-41	15MHz-15MHz	QPSK-QPSK	40545-40695	75RB#0-75RB#0	28.36	30.30	PASS
41-41	15MHz-15MHz	16QAM-16QAM	40545-40695	75RB#0-75RB#0	28.358	31.50	PASS
41-41	15MHz-15MHz	64QAM-64QAM	40545-40695	75RB#0-75RB#0	28.28	32.10	PASS
41-41	15MHz-20MHz	QPSK-QPSK	40523-40694	75RB#0-100RB#0	32.659	35.49	PASS
41-41	15MHz-20MHz	16QAM-16QAM	40523-40694	75RB#0-100RB#0	32.56	35.07	PASS
41-41	15MHz-20MHz	64QAM-64QAM	40523-40694	75RB#0-100RB#0	32.533	34.72	PASS
41-41	20MHz-10MHz	QPSK-QPSK	40571-40715	100RB#0-100RB#0	27.773	30.30	PASS
41-41	20MHz-10MHz	16QAM-16QAM	40571-40715	100RB#0-100RB#0	27.788	29.76	PASS
41-41	20MHz-10MHz	64QAM-64QAM	40571-40715	100RB#0-100RB#0	27.675	30.90	PASS
41-41	20MHz-15MHz	QPSK-QPSK	40546-40717	100RB#0-75RB#0	32.666	34.86	PASS
41-41	20MHz-15MHz	16QAM-16QAM	40546-40717	100RB#0-75RB#0	32.631	35.49	PASS
41-41	20MHz-15MHz	64QAM-64QAM	40546-40717	100RB#0-75RB#0	32.561	35.49	PASS
41-41	20MHz-20MHz	QPSK-QPSK	40521-40719	100RB#0-100RB#0	37.846	41.52	PASS
41-41	20MHz-20MHz	16QAM-16QAM	40521-40719	100RB#0-100RB#0	37.741	43.44	PASS
41-41	20MHz-20MHz	64QAM-64QAM	40521-40719	100RB#0-100RB#0	37.736	43.20	PASS
41-41	20MHz-5MHz	QPSK-QPSK	40595-40712	100RB#0-25RB#0	22.96	25.65	PASS
41-41	20MHz-5MHz	16QAM-16QAM	40595-40712	100RB#0-25RB#0	22.958	25.00	PASS
41-41	20MHz-5MHz	64QAM-64QAM	40595-40712	100RB#0-25RB#0	22.906	24.90	PASS
41-41	5MHz-20MHz	QPSK-QPSK	40528-40645	25RB#0-100RB#0	22.966	25.20	PASS
41-41	5MHz-20MHz	16QAM-16QAM	40528-40645	25RB#0-100RB#0	22.926	25.35	PASS
41-41	5MHz-20MHz	64QAM-64QAM	40528-40645	25RB#0-100RB#0	22.867	24.95	PASS



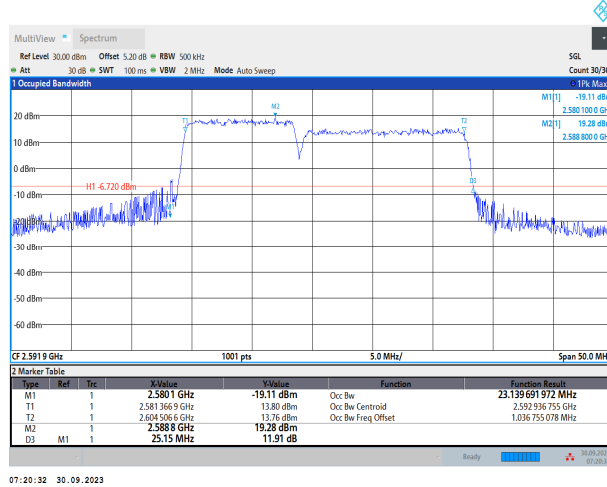
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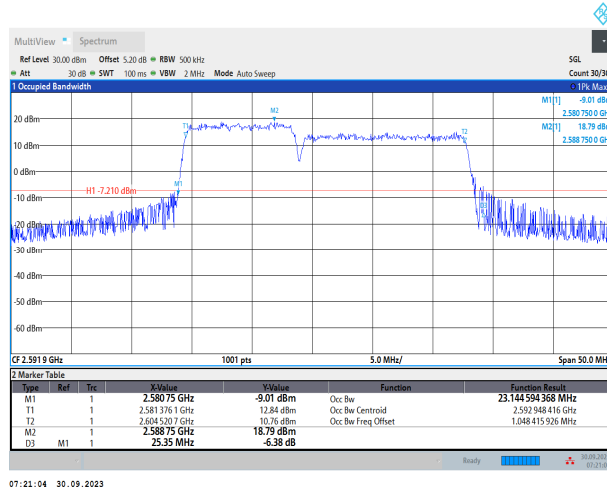
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Test Graphs

41-41-10MHz-15MHz-QPSK-QPSK-40549-40669-50RB#0-75RB#0



41-41-10MHz-15MHz-16QAM-16QAM-40549-40669-50RB#0-75RB#0

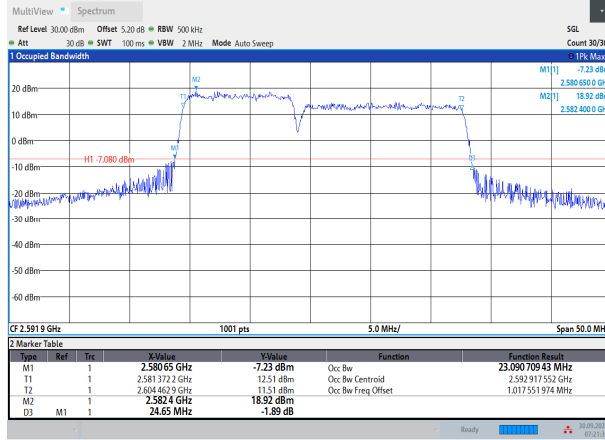


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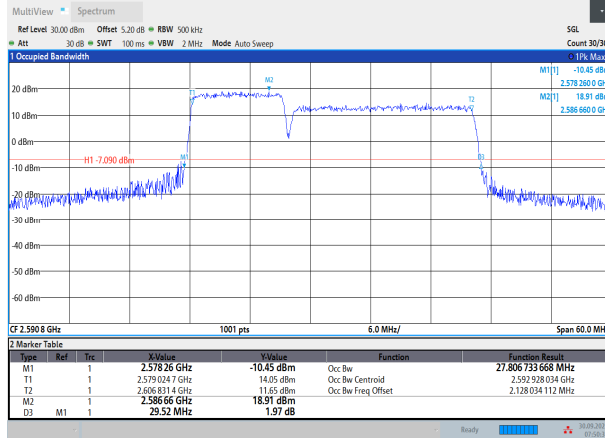
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41-41-10MHz-15MHz-64QAM-64QAM-40549-40669-50RB#0-75RB#0



07:21:36 30.09.2023

41-41-10MHz-20MHz-QPSK-QPSK-40526-40670-50RB#0-100RB#0



07:50:38 30.09.2023



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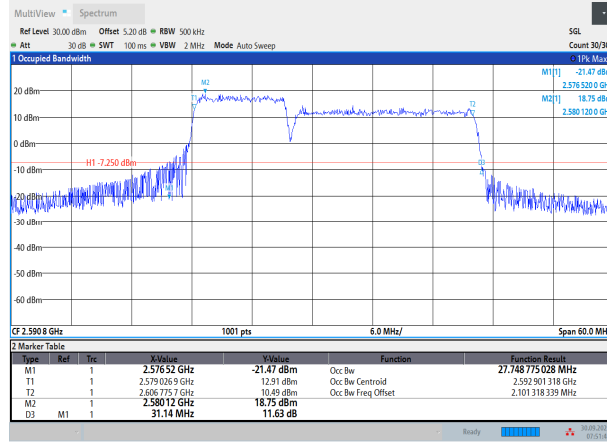
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41-41-10MHz-20MHz-16QAM-16QAM-40526-40670-50RB#0-100RB#0



07:51:10 30.09.2023

41-41-10MHz-20MHz-64QAM-64QAM-40526-40670-50RB#0-100RB#0



07:51:43 30.09.2023

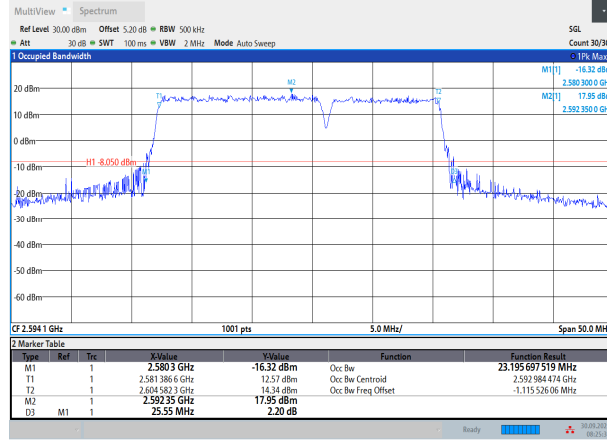


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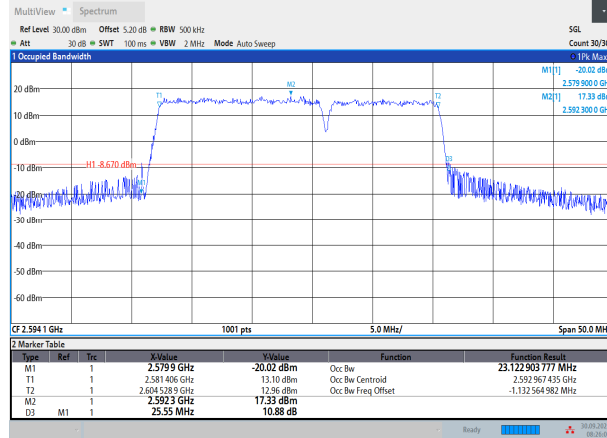
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41-41-15MHz-10MHz-QPSK-QPSK-40571-40691-75RB#0-50RB#0



08:25:11 30.09.2023

41-41-15MHz-10MHz-16QAM-16QAM-40571-40691-75RB#0-50RB#0



08:26:03 30.09.2023

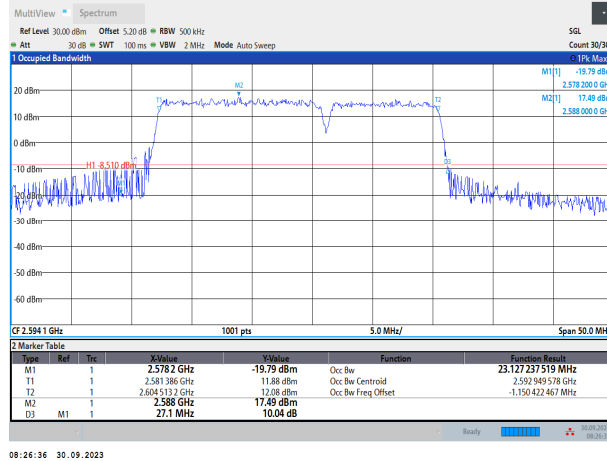


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41-41-15MHz-10MHz-64QAM-64QAM-40571-40691-75RB#0-50RB#0



41-41-15MHz-15MHz-QPSK-QPSK-40545-40695-75RB#0-75RB#0



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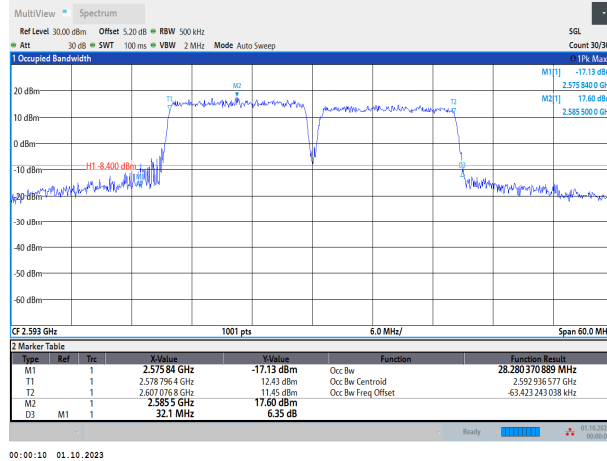
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41-41-15MHz-15MHz-16QAM-16QAM-40545-40695-75RB#0-75RB#0



41-41-15MHz-15MHz-64QAM-64QAM-40545-40695-75RB#0-75RB#0



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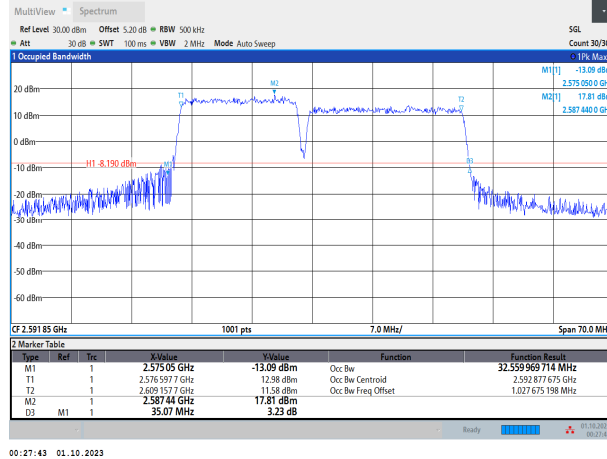
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41-41-15MHz-20MHz-QPSK-QPSK-40523-40694-75RB#0-100RB#0



41-41-15MHz-20MHz-16QAM-16QAM-40523-40694-75RB#0-100RB#0

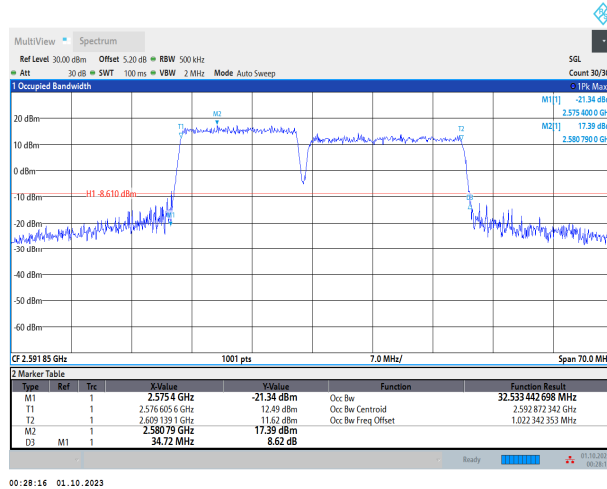


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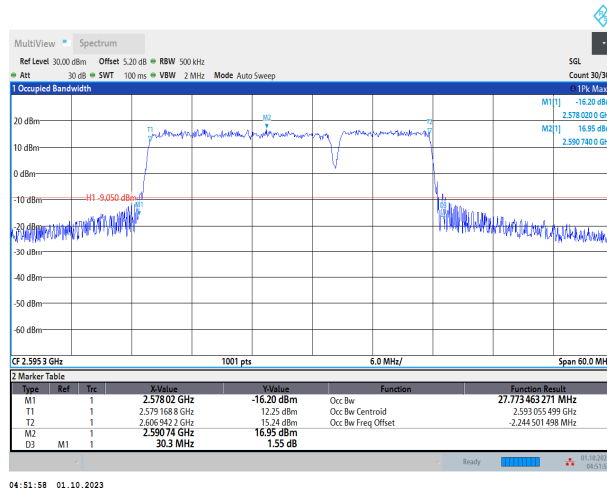
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41-41-15MHz-20MHz-64QAM-64QAM-40523-40694-75RB#0-100RB#0



41-41-20MHz-10MHz-QPSK-QPSK-40571-40715-100RB#0-100RB#0



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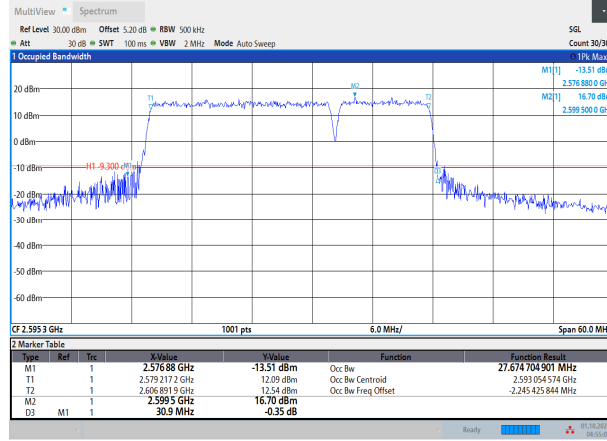
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41-41-20MHz-10MHz-16QAM-16QAM-40571-40715-100RB#0-100RB#0



04:53:33 01.10.2023

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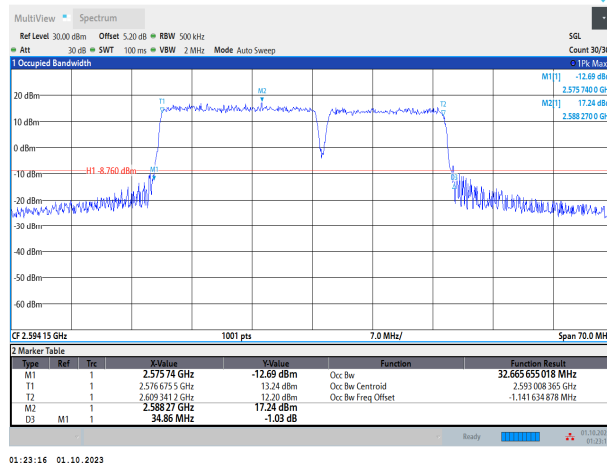


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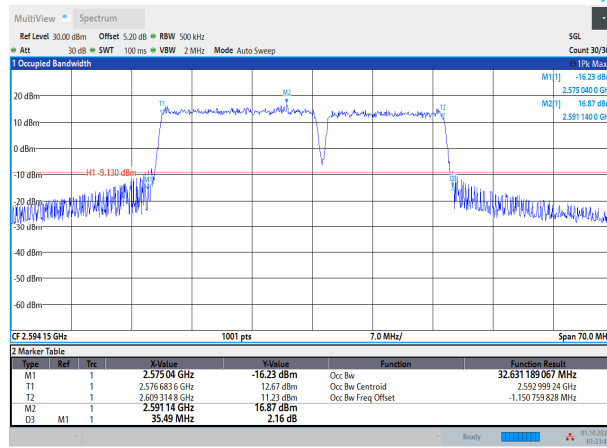
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41-41-20MHz-15MHz-QPSK-QPSK-40546-40717-100RB#0-75RB#0



01:23:16 01.10.2023

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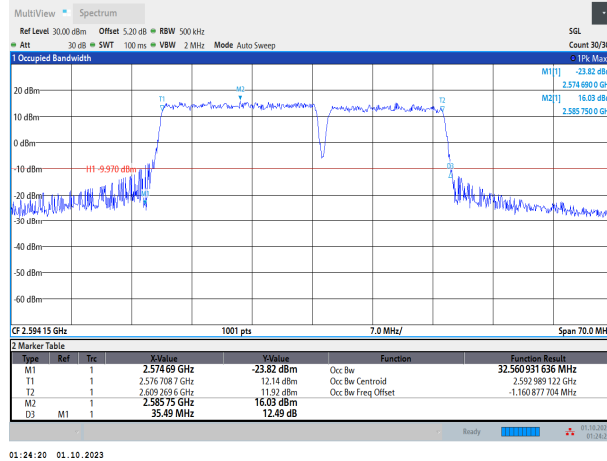


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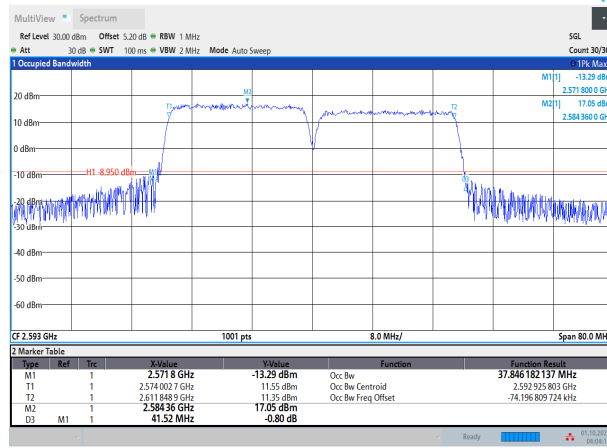
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41-41-20MHz-15MHz-64QAM-64QAM-40546-40717-100RB#0-75RB#0



01:24:20 01.10.2023

41-41-20MHz-20MHz-QPSK-QPSK-40521-40719-100RB#0-100RB#0



04:04:15 01.10.2023

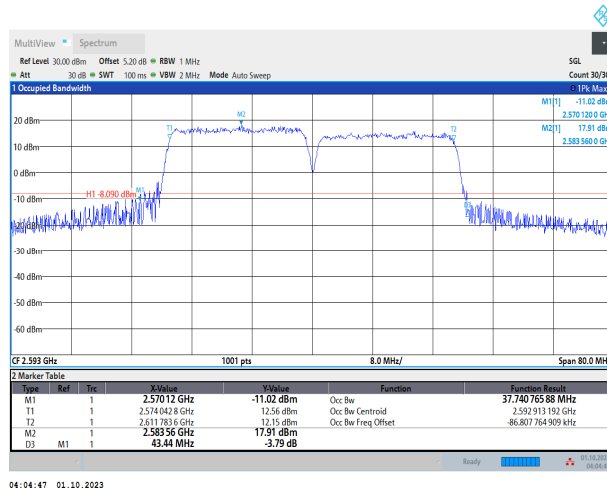


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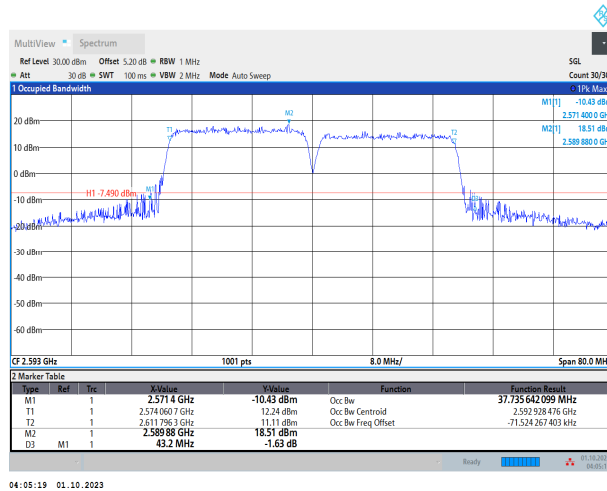
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41-41-20MHz-20MHz-16QAM-16QAM-40521-40719-100RB#0-100RB#0



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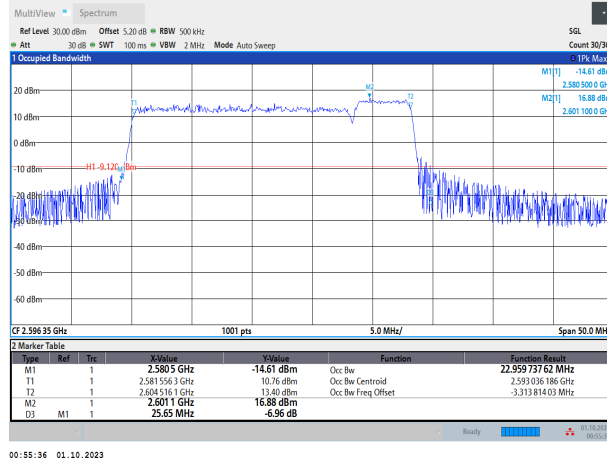


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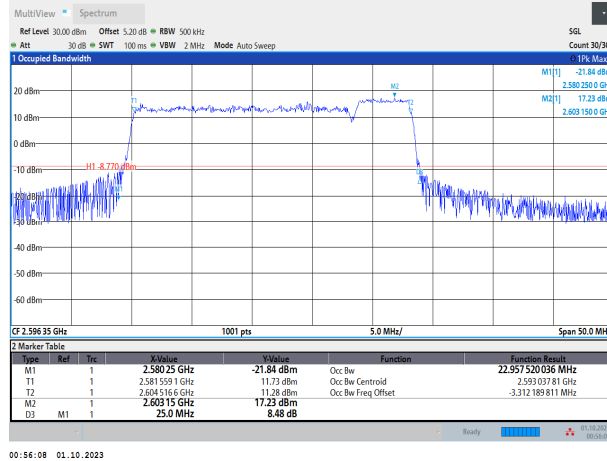
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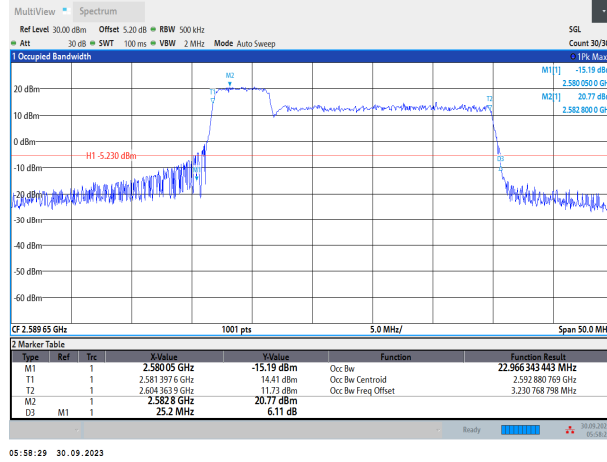
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41-41-20MHz-5MHz-64QAM-64QAM-40595-40712-100RB#0-25RB#0



41-41-5MHz-20MHz-QPSK-QPSK-40528-40645-25RB#0-100RB#0

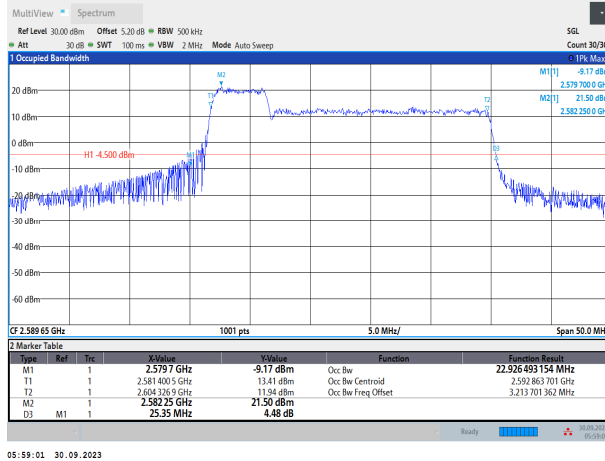


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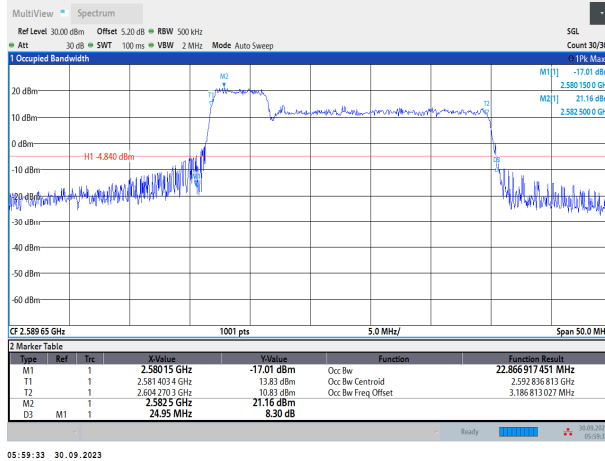
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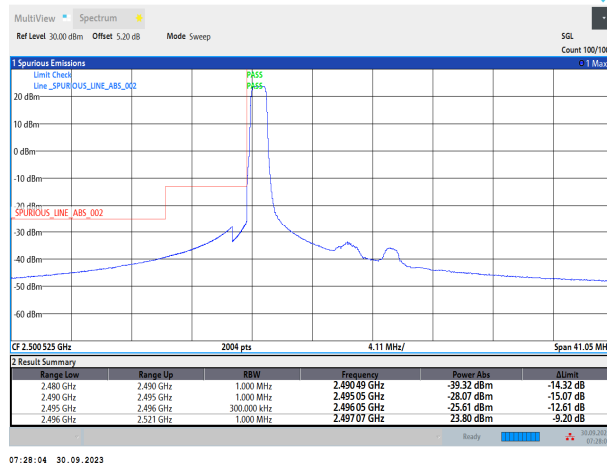
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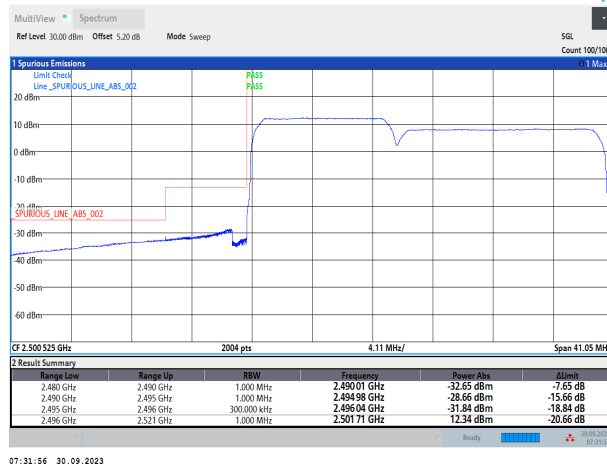
Band Edge

Test Graphs

41-41-10MHz-15MHz-QPSK-QPSK-39703-39823-1RB#0-0RB#0



41-41-10MHz-15MHz-QPSK-QPSK-39703-39823-50RB#0-75RB#0

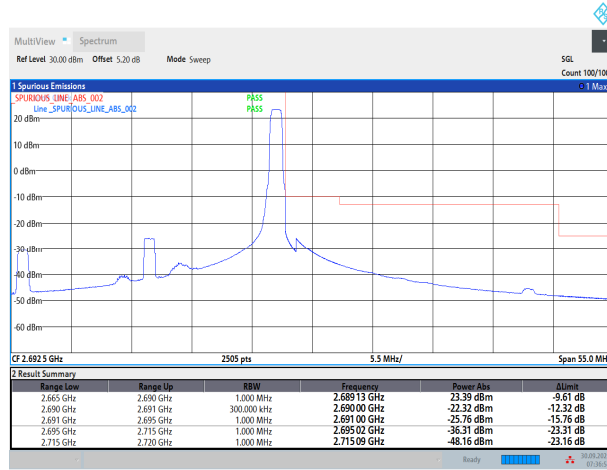


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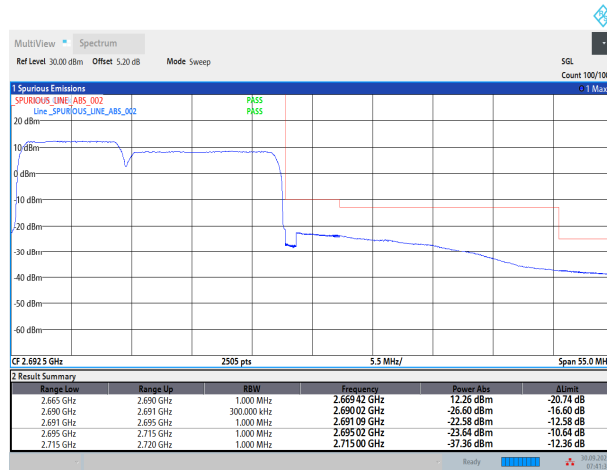
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41-41-10MHz-15MHz-QPSK-QPSK-41395-41515-0RB#0-1RB#74



07:36:53 30.09.2023

41-41-10MHz-15MHz-QPSK-QPSK-41395-41515-50RB#0-75RB#0



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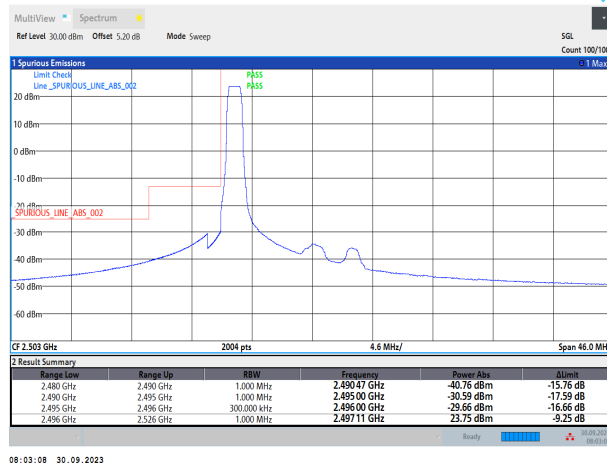


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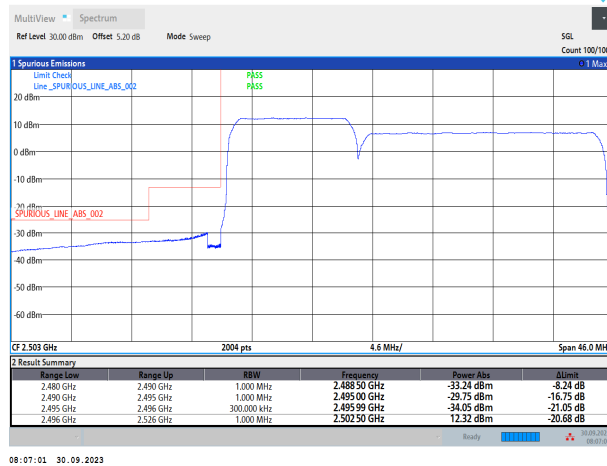
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41-41-10MHz-20MHz-QPSK-QPSK-39705-39849-1RB#0-0RB#0



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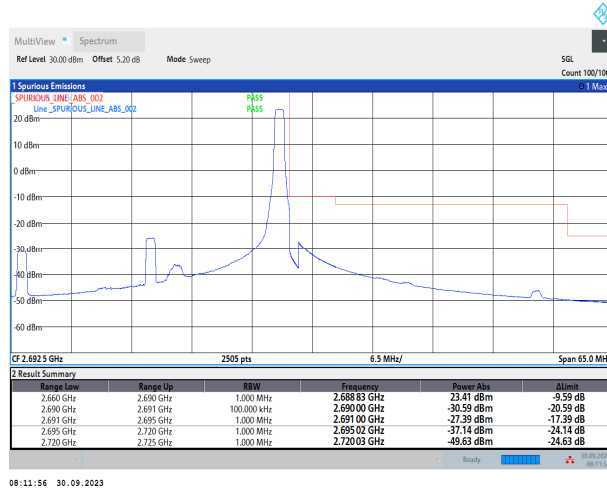


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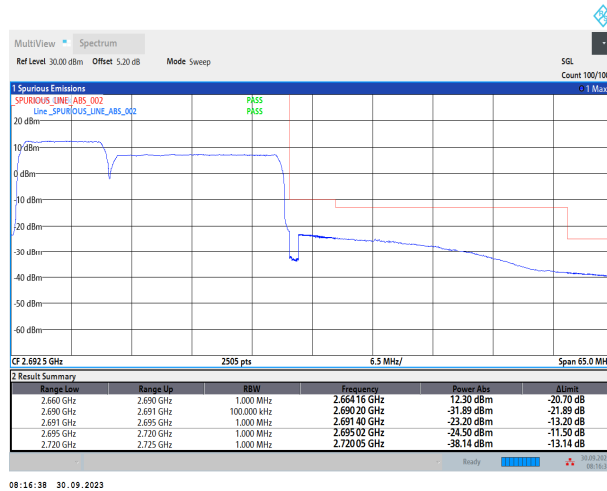
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41-41-10MHz-20MHz-QPSK-QPSK-41346-41490-0RB#0-1RB#99



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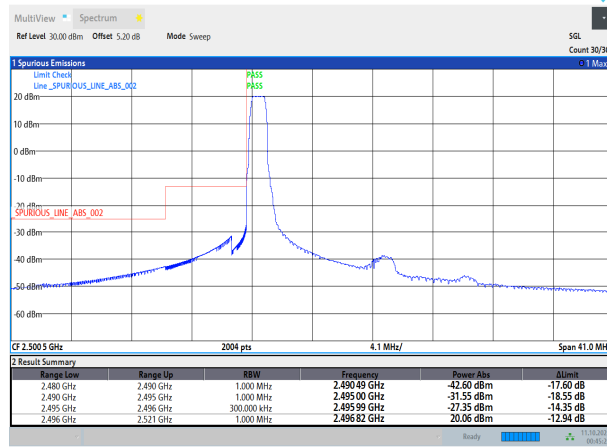


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41-41-15MHz-10MHz-QPSK-QPSK-39725-39845-1RB#0-0RB#0



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08:34:43 30.09.2023

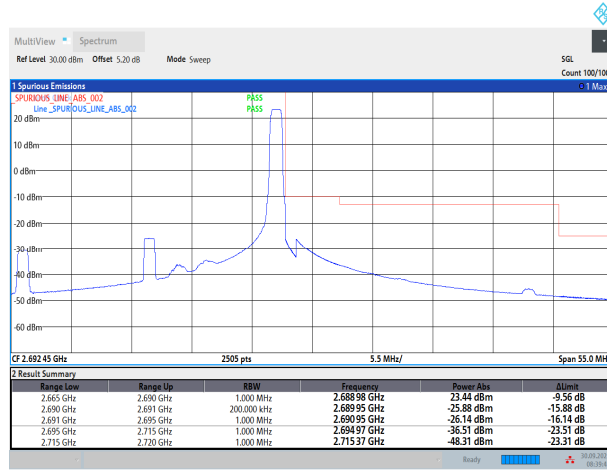


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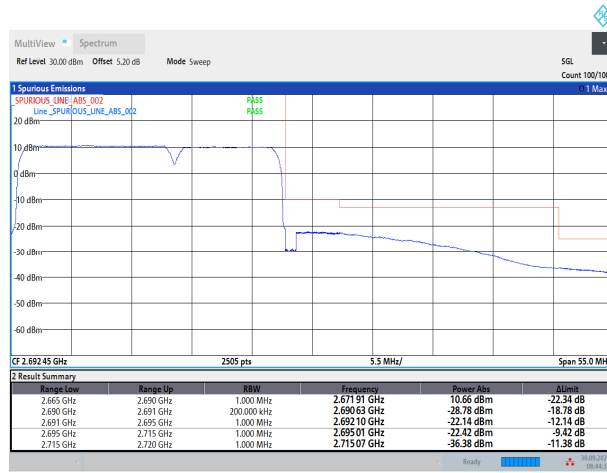
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41-41-15MHz-10MHz-QPSK-QPSK-41417-41537-0RB#0-1RB#49



41-41-15MHz-10MHz-QPSK-QPSK-41417-41537-75RB#0-50RB#0

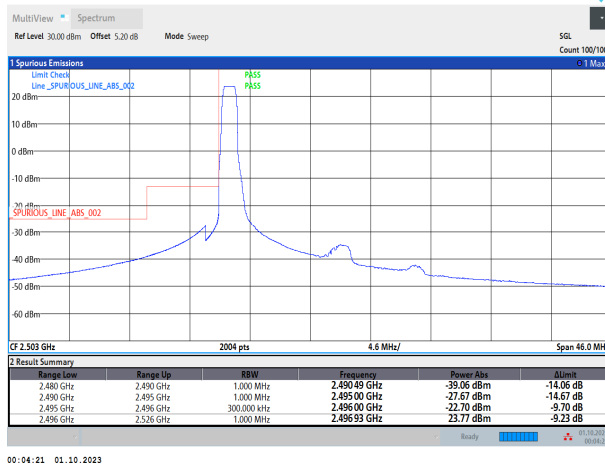


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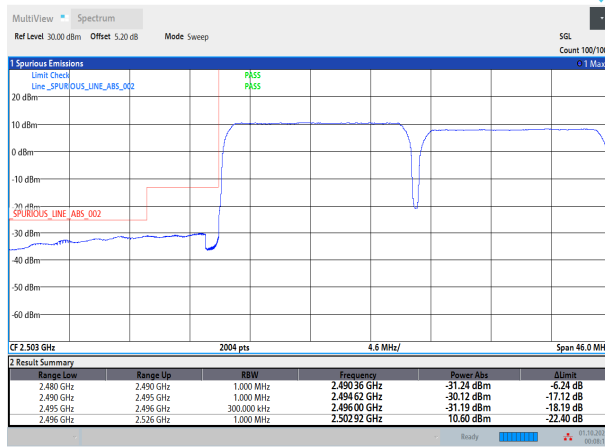
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41-41-15MHz-15MHz-QPSK-QPSK-39725-39875-1RB#0-0RB#0



00:04:21 01.10.2023

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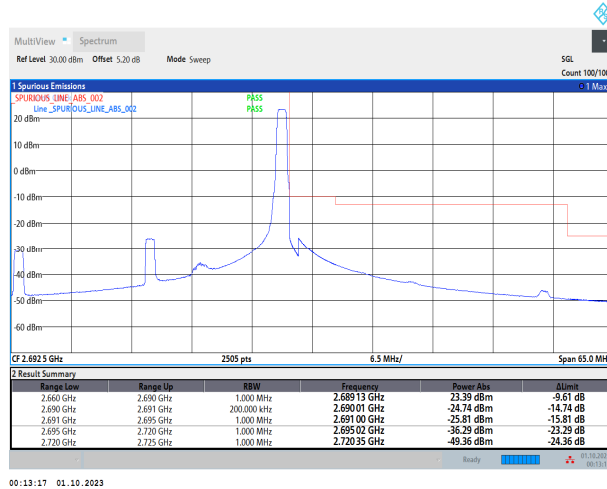


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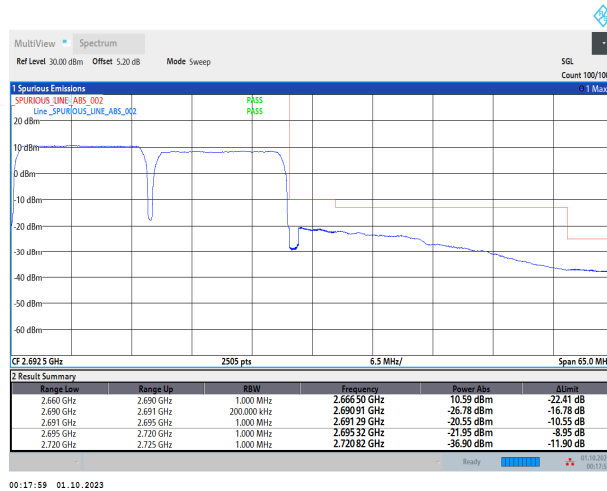
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41-41-15MHz-15MHz-QPSK-QPSK-41365-41515-0RB#0-1RB#74



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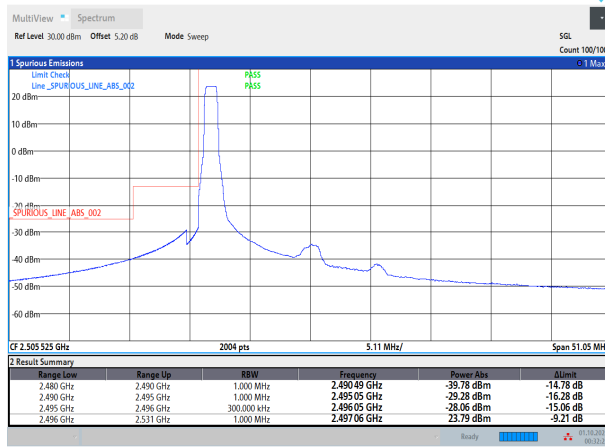


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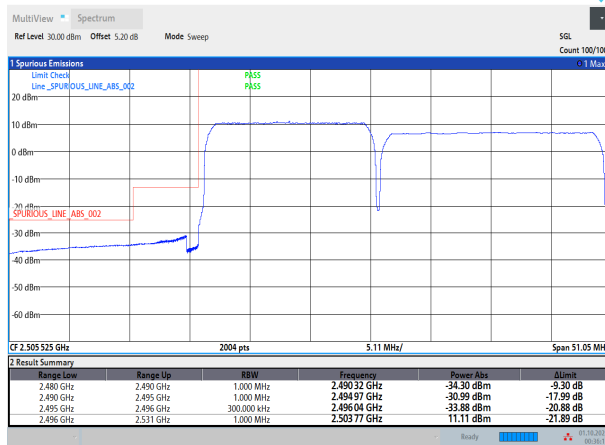
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41-41-15MHz-20MHz-QPSK-QPSK-39728-39899-1RB#0-0RB#0



00:32:23 01.10.2023

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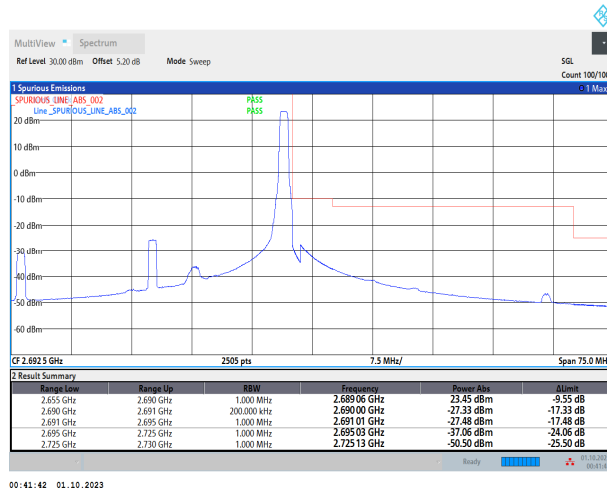


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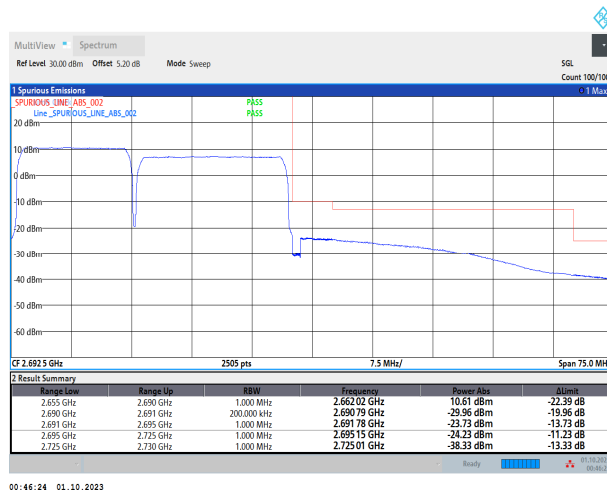
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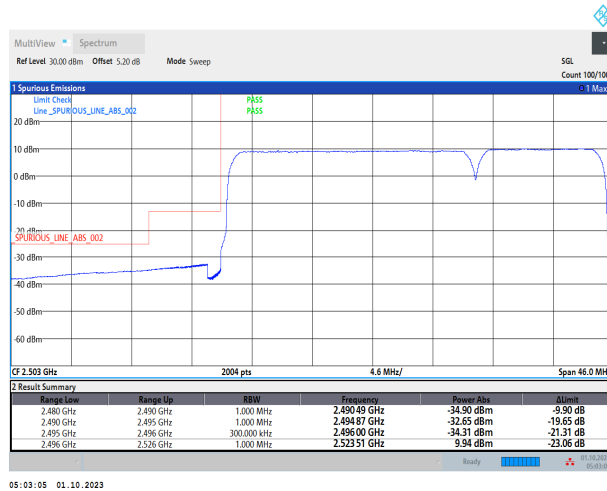


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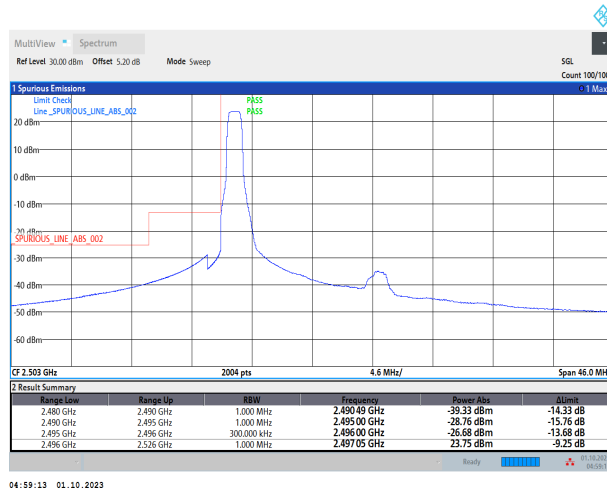
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41-41-20MHz-10MHz-QPSK-QPSK-39750-39894-100RB#0-50RB#0



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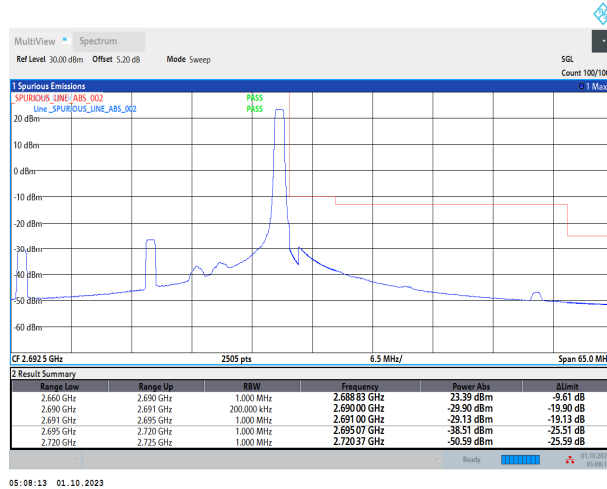


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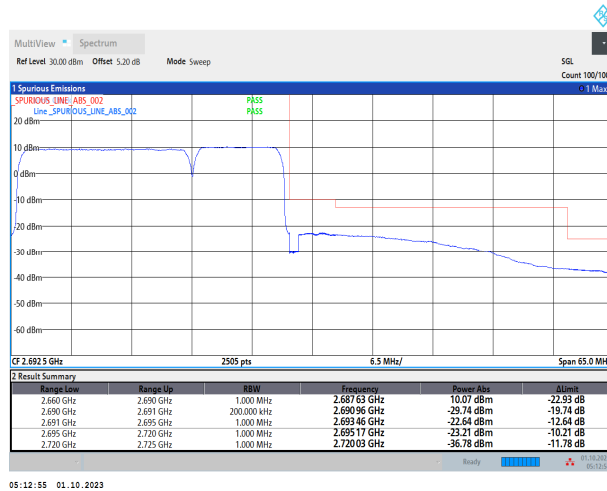
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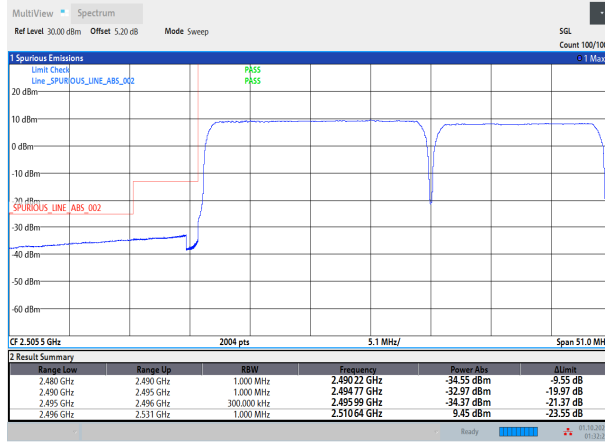


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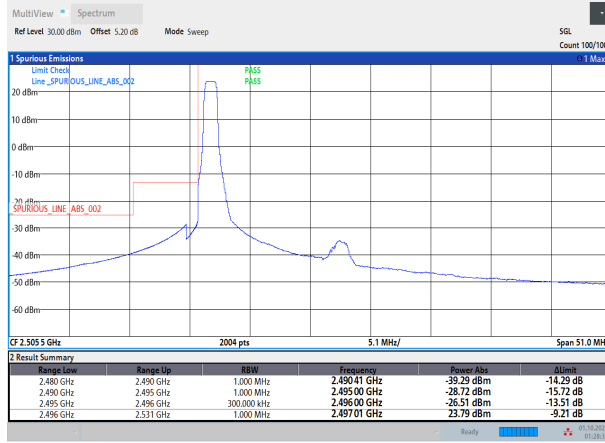
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01:28:38 01.10.2023

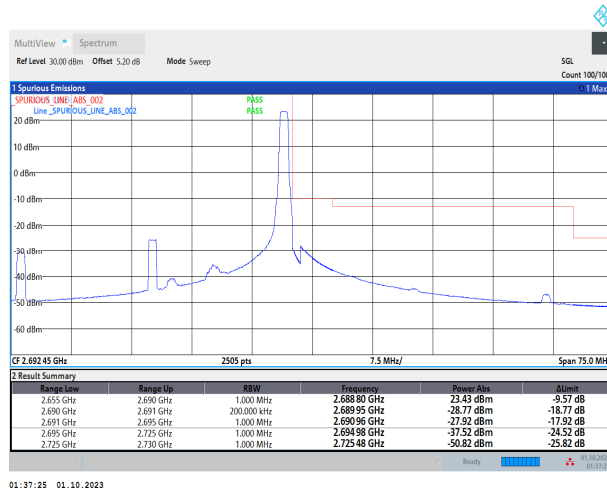


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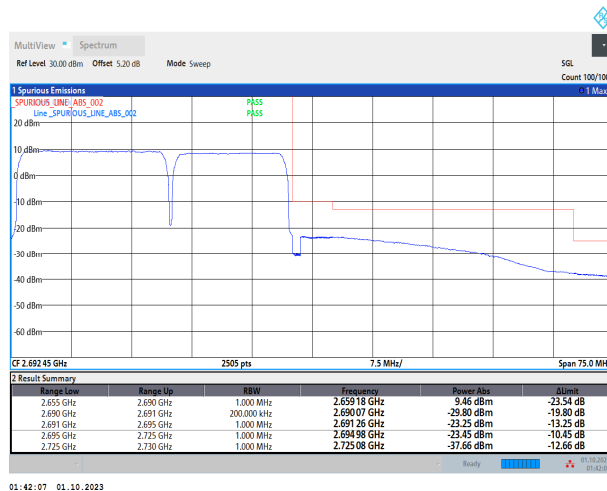
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41-41-20MHz-15MHz-QPSK-QPSK-41341-41512-0RB#0-1RB#74



01:37:25 01.10.2023

41-41-20MHz-15MHz-QPSK-QPSK-41341-41512-100RB#0-75RB#0



01:42:07 01.10.2023

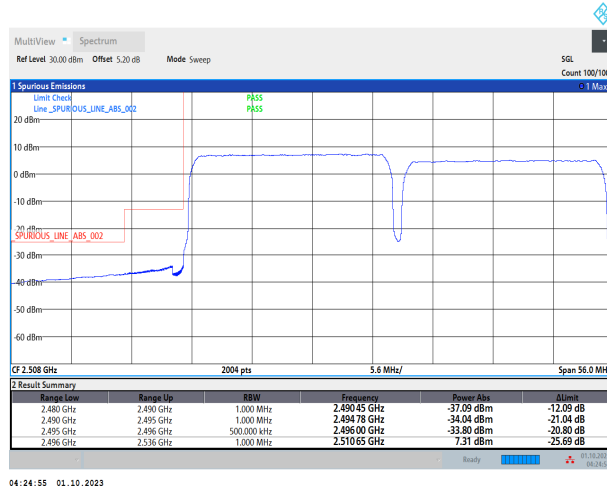


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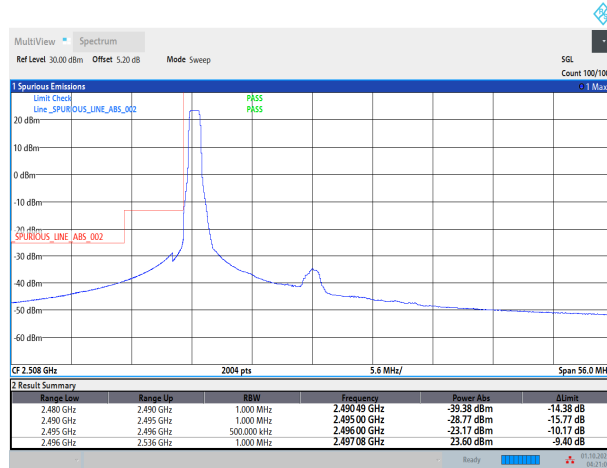
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41-41-20MHz-20MHz-QPSK-QPSK-39750-39948-100RB#0-100RB#0



04:24:55 01.10.2023

41-41-20MHz-20MHz-QPSK-QPSK-39750-39948-1RB#0-0RB#0



04:21:03 01.10.2023

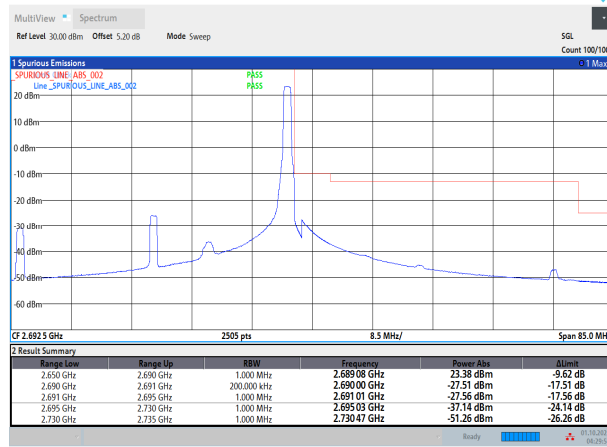


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41-41-20MHz-20MHz-QPSK-QPSK-41292-41490-0RB#0-1RB#99



04:19:59 01.10.2023

41-41-20MHz-20MHz-QPSK-QPSK-41292-41490-100RB#0-100RB#0



04:34:42 01.10.2023

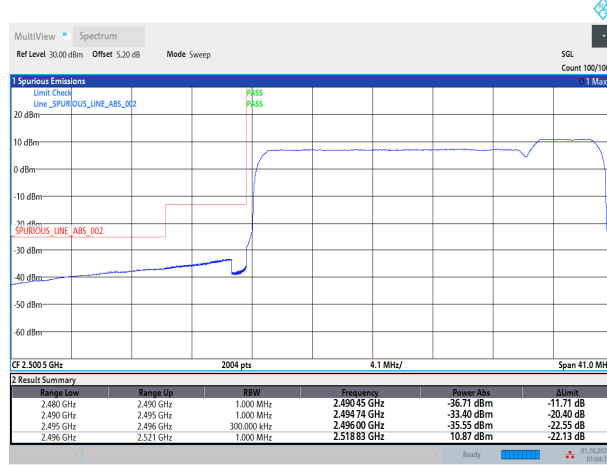


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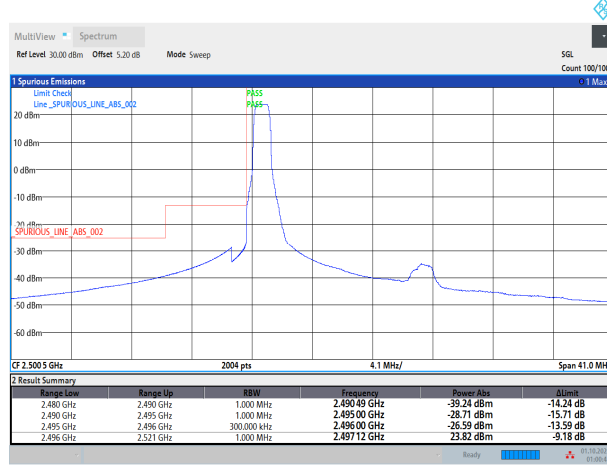
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41-41-20MHz-5MHz-QPSK-QPSK-39750-39867-100RB#0-25RB#0



01:04:37 01.10.2023

41-41-20MHz-5MHz-QPSK-QPSK-39750-39867-1RB#0-0RB#0



01:00:45 01.10.2023

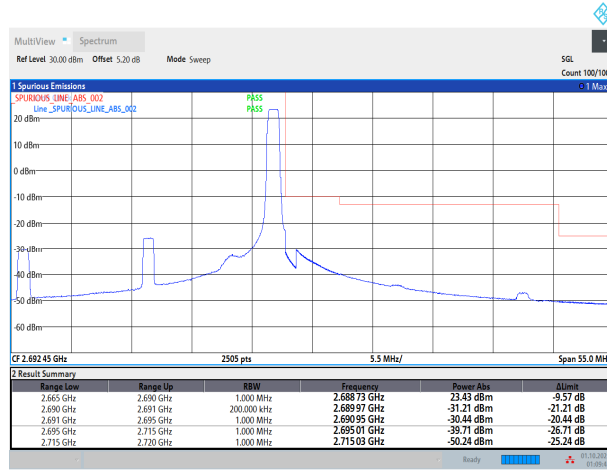


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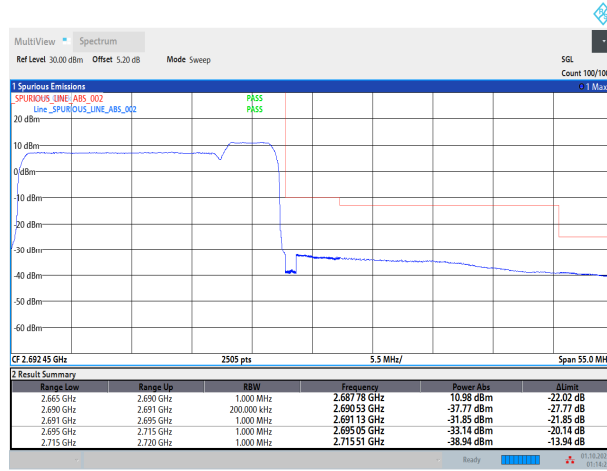
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41-41-20MHz-5MHz-QPSK-QPSK-41440-41557-0RB#0-1RB#24



01:09:43 01.10.2023

41-41-20MHz-5MHz-QPSK-QPSK-41440-41557-100RB#0-25RB#0



01:14:25 01.10.2023

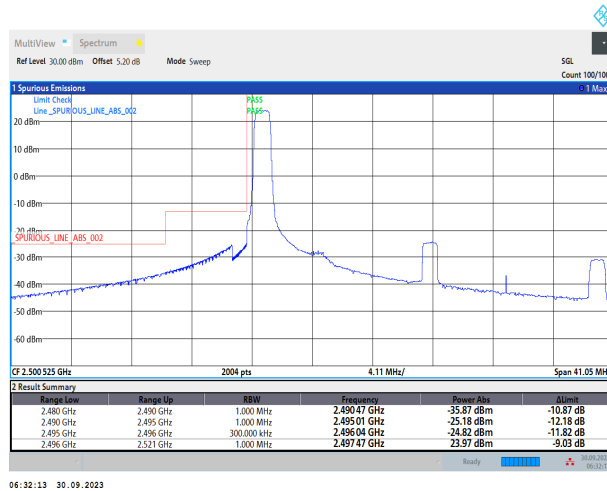


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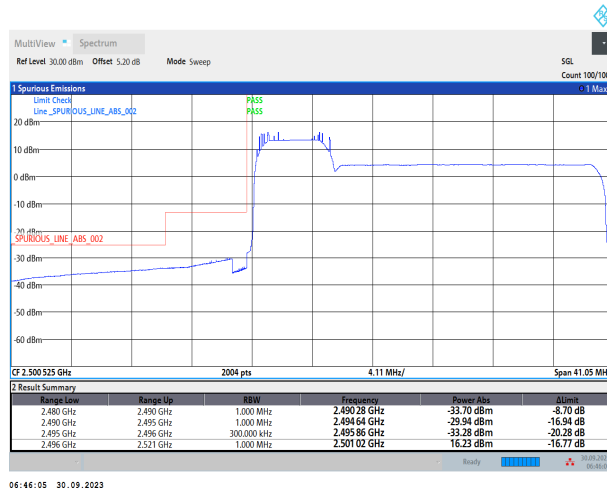
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41-41-5MHz-20MHz-QPSK-QPSK-39683-39800-1RB#0-0RB#0



41-41-5MHz-20MHz-QPSK-QPSK-39683-39800-25RB#0-100RB#0

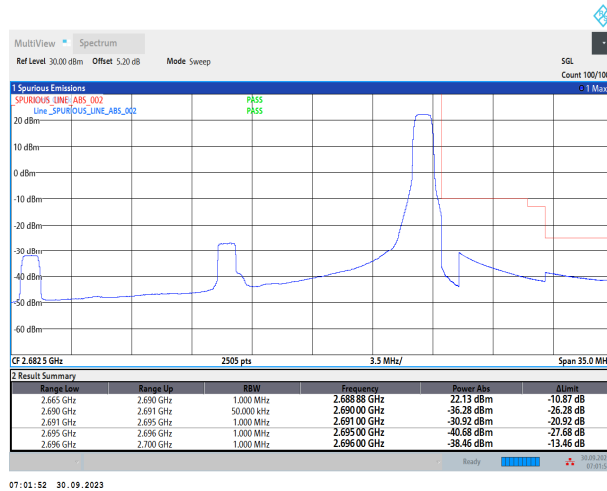


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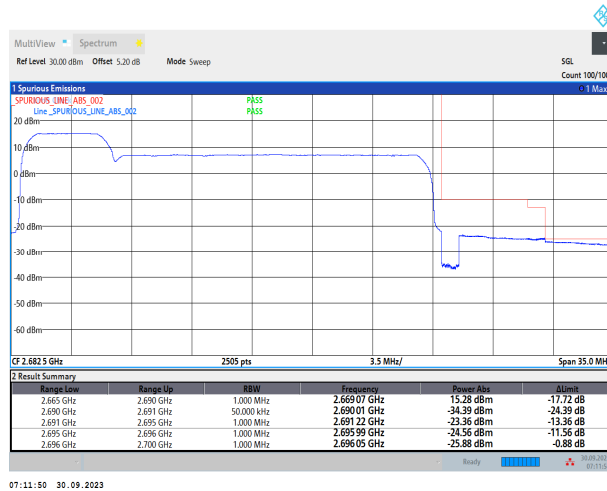
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41-41-5MHz-20MHz-QPSK-QPSK-41373-41490-0RB#0-1RB#99



41-41-5MHz-20MHz-QPSK-QPSK-41373-41490-25RB#0-100RB#0



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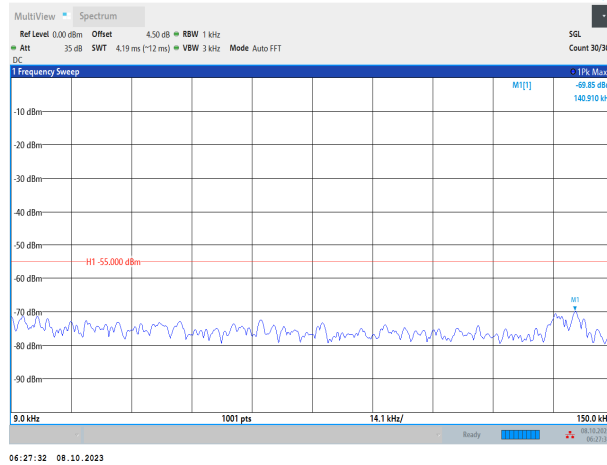
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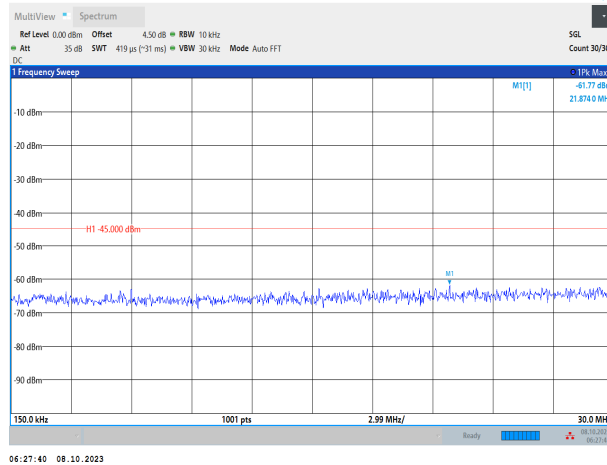
Conducted Spurious Emission

Test Graphs

41-41-20MHz-20MHz-QPSK-QPSK-39750-39948-1RB#0-0RB#0-0.009~0.15MHz



41-41-20MHz-20MHz-QPSK-QPSK-39750-39948-1RB#0-0RB#0-0.15~30MHz

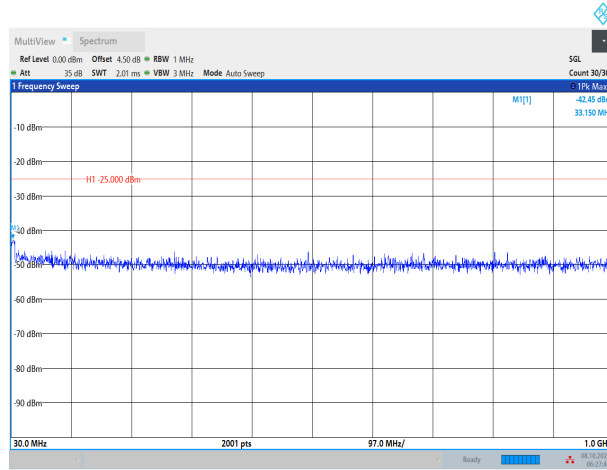


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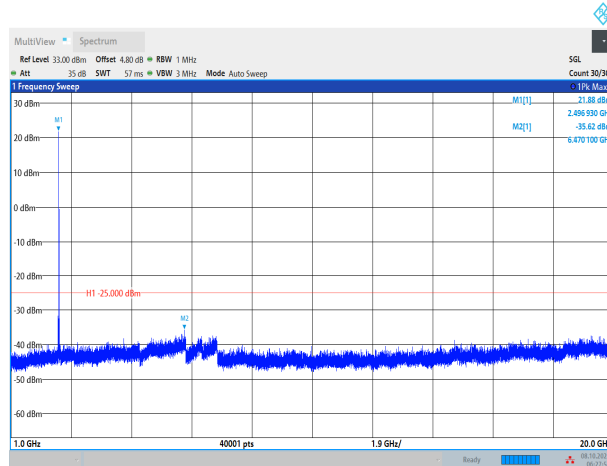
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41-41-20MHz-20MHz-QPSK-QPSK-39750-39948-1RB#0-0RB#0-30~1000MHz



06:27:47 08.10.2023

41-41-20MHz-20MHz-QPSK-QPSK-39750-39948-1RB#0-0RB#0-1000~20000MHz



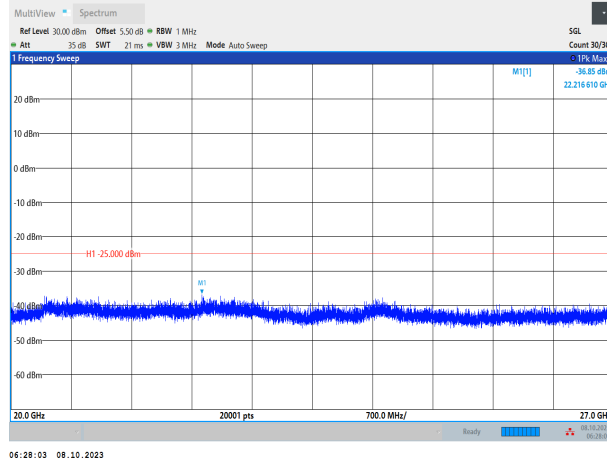
06:27:56 08.10.2023



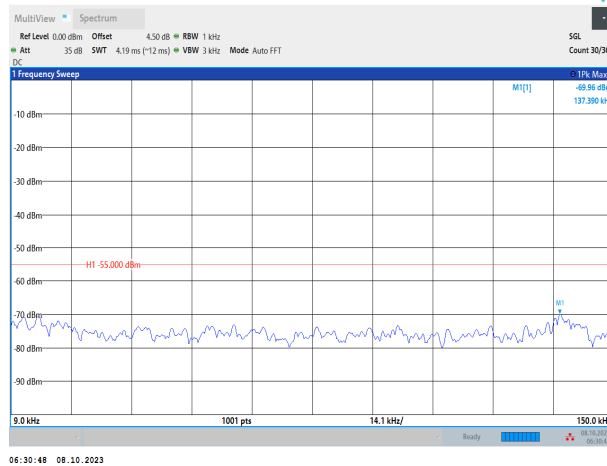
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41-41-20MHz-20MHz-QPSK-QPSK-39750-39948-1RB#0-0RB#0-20000~27000MHz



41-41-20MHz-20MHz-QPSK-QPSK-40521-40719-1RB#0-0RB#0-0.009~0.15MHz

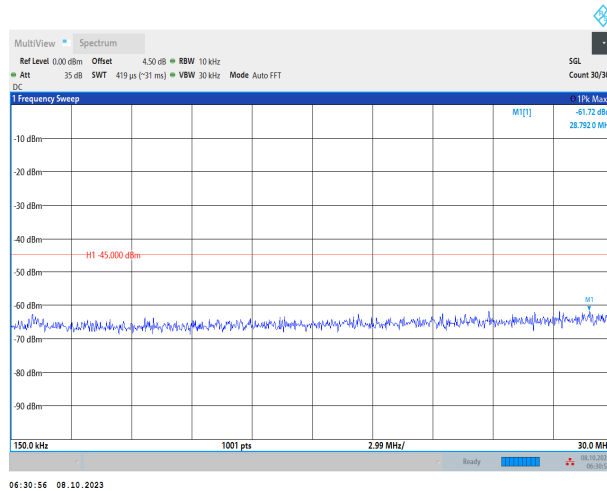


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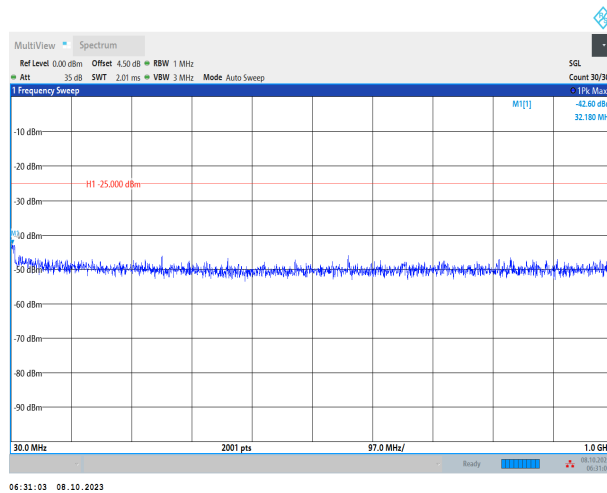
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41-41-20MHz-20MHz-QPSK-QPSK-40521-40719-1RB#0-0RB#0-0.15~30MHz



41-41-20MHz-20MHz-QPSK-QPSK-40521-40719-1RB#0-0RB#0-30~1000MHz

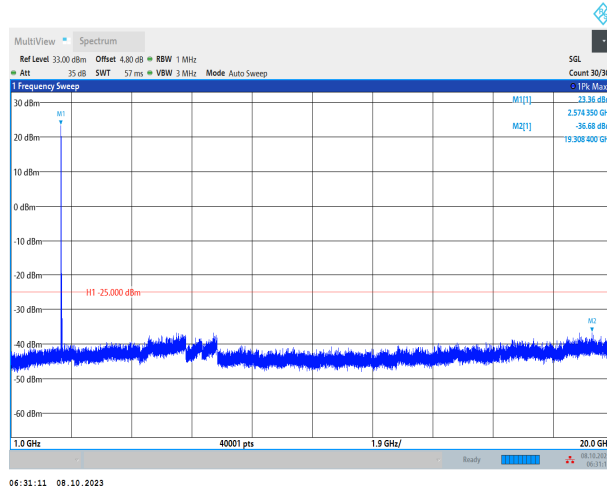


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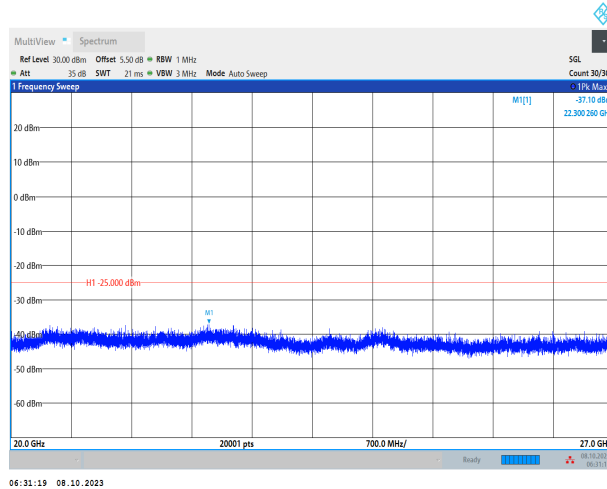
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41-41-20MHz-20MHz-QPSK-QPSK-40521-40719-1RB#0-0RB#0-1000~20000MHz



41-41-20MHz-20MHz-QPSK-QPSK-40521-40719-1RB#0-0RB#0-20000~27000MHz

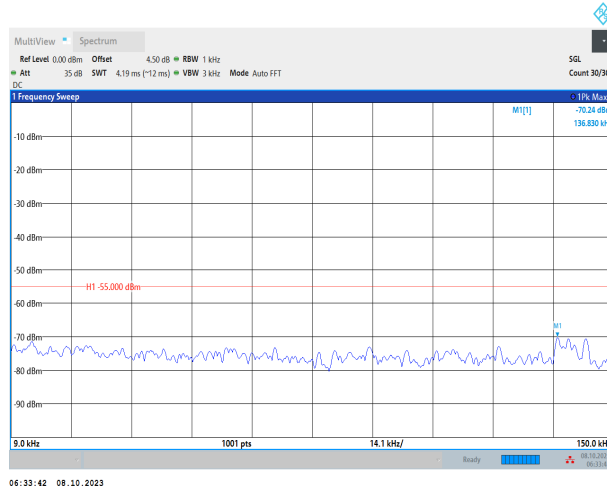


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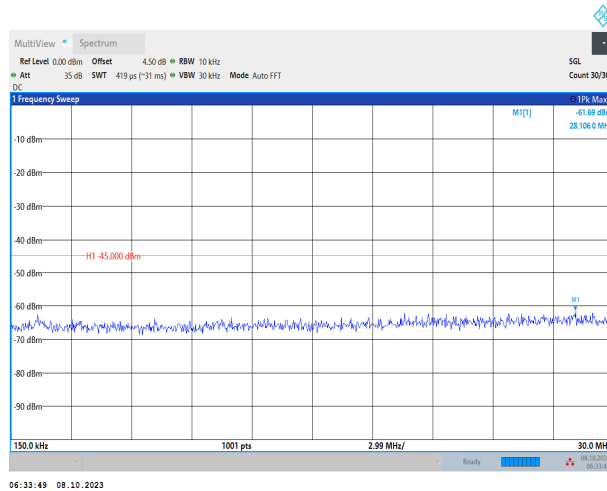
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41-41-20MHz-20MHz-QPSK-QPSK-41292-41490-1RB#0-0RB#0-0.009~0.15MHz



41-41-20MHz-20MHz-QPSK-QPSK-41292-41490-1RB#0-0RB#0-0.15~30MHz

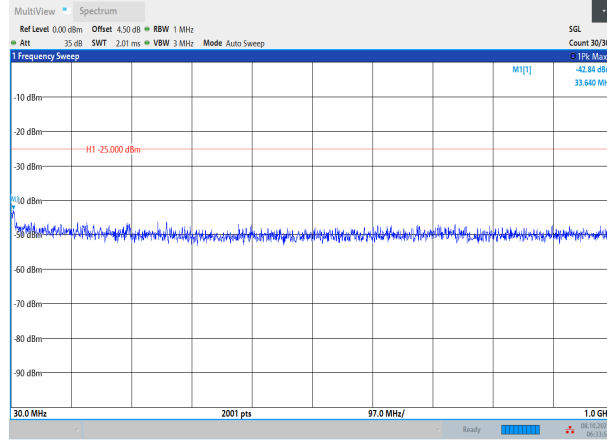


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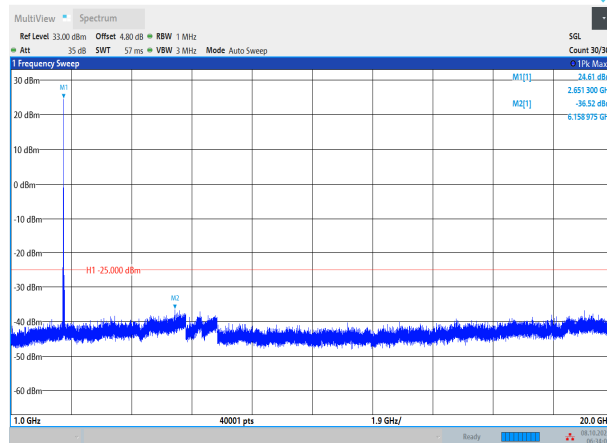
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41-41-20MHz-20MHz-QPSK-QPSK-41292-41490-1RB#0-0RB#0-30~1000MHz



06:33:57 08.10.2023

41-41-20MHz-20MHz-QPSK-QPSK-41292-41490-1RB#0-0RB#0-1000~20000MHz



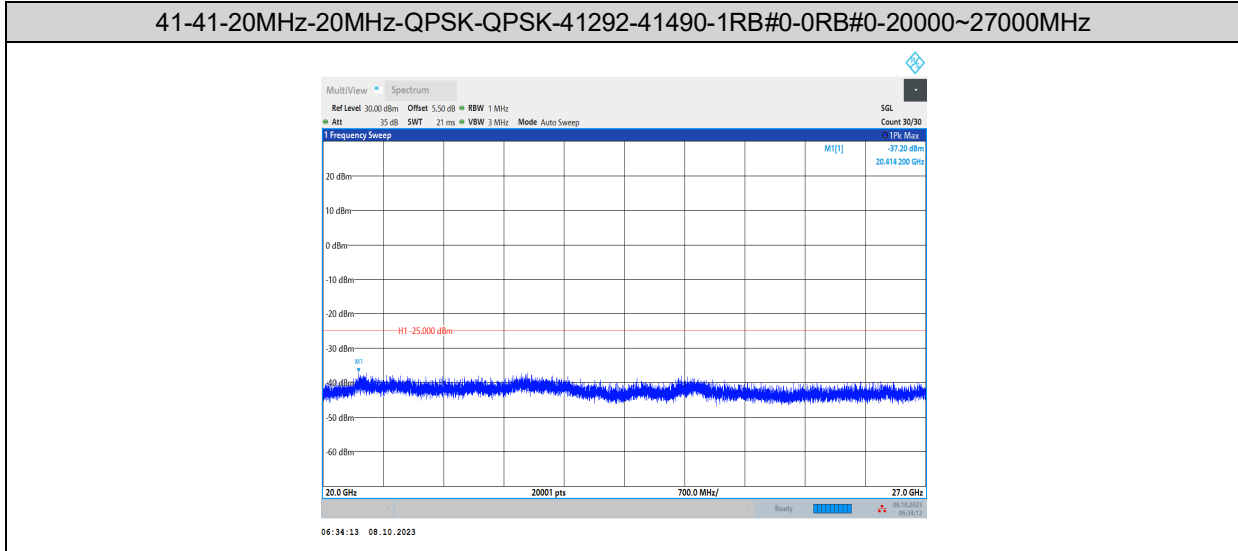
06:34:05 08.10.2023



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41-41-20MHz-20MHz-QPSK-QPSK-41292-41490-1RB#0-0RB#0-20000~27000MHz



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Field Strength of Spurious Radiation

Test Band = LTE Band41CA_ TM1

Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4994.1800	40.57	-45.63	31.39	-68.94	-25.00	43.94	Horizontal
2	7491.2700	37.86	-43.16	36.58	-63.99	-25.00	38.99	Horizontal
3	9988.3600	30.28	-39.25	38.18	-66.05	-25.00	41.05	Horizontal
4	12485.4500	24.92	-37.04	38.95	-68.43	-25.00	43.43	Horizontal
5	14982.5400	23.05	-34.64	41.29	-65.56	-25.00	40.56	Horizontal
6	17479.6300	25.06	-35.10	44.46	-60.84	-25.00	35.84	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4994.1800	40.33	-45.63	31.39	-69.18	-25.00	44.18	Vertical
2	7491.2700	37.18	-43.16	36.58	-64.67	-25.00	39.67	Vertical
3	9988.3600	31.05	-39.25	38.18	-65.28	-25.00	40.28	Vertical
4	12485.4500	24.97	-37.04	38.95	-68.38	-25.00	43.38	Vertical
5	14982.5400	22.67	-34.64	41.29	-65.94	-25.00	40.94	Vertical
6	17479.6300	24.83	-35.10	44.46	-61.07	-25.00	36.07	Vertical



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Test Band = LTE Band41CA_ TM1

Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4157	41.83	-45.77	29.48	-69.72	-25.00	44.72	Horizontal
2	5148.3800	38.85	-45.33	31.76	-69.98	-25.00	44.98	Horizontal
3	7722.5700	35.47	-42.93	36.69	-66.03	-25.00	41.03	Horizontal
4	10296.7600	29.81	-39.10	38.35	-66.20	-25.00	41.20	Horizontal
5	12870.9500	26.46	-37.03	39.06	-66.77	-25.00	41.77	Horizontal
6	15445.1400	24.18	-34.35	40.36	-65.06	-25.00	40.06	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3933.5	42.91	-46.20	29.03	-69.52	-25.00	44.52	Vertical
2	5148.3800	39.58	-45.33	31.76	-69.25	-25.00	44.25	Vertical
3	7722.5700	36.73	-42.93	36.69	-64.77	-25.00	39.77	Vertical
4	10296.7600	29.06	-39.10	38.35	-66.95	-25.00	41.95	Vertical
5	12870.9500	26.21	-37.03	39.06	-67.02	-25.00	42.02	Vertical
6	15445.1400	24.04	-34.35	40.36	-65.20	-25.00	40.20	Vertical



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Test Band = LTE Band41CA_ TM1

Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4134.5	42.28	-45.76	29.42	-69.32	-25.00	44.32	Horizontal
2	5302.5800	39.57	-45.10	32.13	-68.66	-25.00	43.66	Horizontal
3	7953.8700	35.11	-42.57	36.78	-65.93	-25.00	40.93	Horizontal
4	10605.1600	28.09	-38.44	38.50	-67.10	-25.00	42.10	Horizontal
5	13256.4500	25.06	-37.02	39.56	-67.66	-25.00	42.66	Horizontal
6	15907.5400	24.72	-34.34	39.39	-65.49	-25.00	40.49	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3696	42.93	-45.53	28.80	-69.06	-25.00	44.06	Vertical
2	5302.5800	39.66	-45.10	32.13	-68.57	-25.00	43.57	Vertical
3	7953.8700	36.69	-42.57	36.78	-64.35	-25.00	39.35	Vertical
4	10605.1600	28.91	-38.44	38.50	-66.28	-25.00	41.28	Vertical
5	13256.4500	24.72	-37.02	39.56	-68.00	-25.00	43.00	Vertical
6	15907.5400	24.86	-34.34	39.39	-65.35	-25.00	40.35	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
41-41	20MHz -20MHz	QPSK-QPSK	40521-40719	100RB#0-100RB#0	VH	NT	38.10	0.014750	PASS
41-41	20MHz -20MHz	QPSK-QPSK	40521-40719	100RB#0-100RB#0	VL	NT	40.20	0.015563	PASS
41-41	20MHz -20MHz	QPSK-QPSK	40521-40719	100RB#0-100RB#0	VN	NT	39.70	0.015369	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
41-41	20MHz -20MHz	QPSK-QPSK	40521-40719	100RB#0-100RB#0	NV	50	39.20	0.015176	PASS
41-41	20MHz -20MHz	QPSK-QPSK	40521-40719	100RB#0-100RB#0	NV	40	39.50	0.015292	PASS
41-41	20MHz -20MHz	QPSK-QPSK	40521-40719	100RB#0-100RB#0	NV	30	40.90	0.015834	PASS
41-41	20MHz -20MHz	QPSK-QPSK	40521-40719	100RB#0-100RB#0	NV	20	38.00	0.014711	PASS
41-41	20MHz -20MHz	QPSK-QPSK	40521-40719	100RB#0-100RB#0	NV	10	38.70	0.014982	PASS
41-41	20MHz -20MHz	QPSK-QPSK	40521-40719	100RB#0-100RB#0	NV	0	41.70	0.016143	PASS
41-41	20MHz -20MHz	QPSK-QPSK	40521-40719	100RB#0-100RB#0	NV	-10	39.00	0.015098	PASS
41-41	20MHz -20MHz	QPSK-QPSK	40521-40719	100RB#0-100RB#0	NV	-20	39.90	0.015447	PASS
41-41	20MHz -20MHz	QPSK-QPSK	40521-40719	100RB#0-100RB#0	NV	-30	40.60	0.015718	PASS

---End of Attachment---



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