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Appendix B.5

LTE Band 7



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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
Band7	5MHz	QPSK	20775	1RB#0	22.67	24.8	33.00	PASS
Band7	5MHz	QPSK	20775	1RB#12	22.80	24.93	33.00	PASS
Band7	5MHz	QPSK	20775	1RB#24	22.76	24.89	33.00	PASS
Band7	5MHz	QPSK	20775	25RB#0	21.82	23.95	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#0	22.51	24.64	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#12	22.70	24.83	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#24	22.64	24.77	33.00	PASS
Band7	5MHz	QPSK	21100	25RB#0	21.72	23.85	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#0	22.62	24.75	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#12	22.77	24.9	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#24	22.73	24.86	33.00	PASS
Band7	5MHz	QPSK	21425	25RB#0	21.77	23.9	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#0	21.74	23.87	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#12	21.88	24.01	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#24	21.85	23.98	33.00	PASS
Band7	5MHz	16QAM	20775	25RB#0	20.85	22.98	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#0	21.63	23.76	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#12	21.83	23.96	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#24	21.80	23.93	33.00	PASS
Band7	5MHz	16QAM	21100	25RB#0	20.78	22.91	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#0	21.92	24.05	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#12	22.05	24.18	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#24	22.00	24.13	33.00	PASS
Band7	5MHz	16QAM	21425	25RB#0	20.77	22.9	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#0	22.57	24.7	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#24	22.35	24.48	33.00	PASS



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Band7	10MHz	QPSK	20800	1RB#49	22.47	24.6	33.00	PASS
Band7	10MHz	QPSK	20800	50RB#0	21.74	23.87	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#0	22.42	24.55	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#24	22.31	24.44	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#49	22.33	24.46	33.00	PASS
Band7	10MHz	QPSK	21100	50RB#0	21.70	23.83	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#0	22.48	24.61	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#24	22.39	24.52	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#49	22.49	24.62	33.00	PASS
Band7	10MHz	QPSK	21400	50RB#0	21.67	23.8	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#0	21.88	24.01	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#24	21.83	23.96	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#49	21.68	23.81	33.00	PASS
Band7	10MHz	16QAM	20800	50RB#0	20.76	22.89	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#0	21.74	23.87	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#24	21.70	23.83	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#49	21.77	23.9	33.00	PASS
Band7	10MHz	16QAM	21100	50RB#0	20.73	22.86	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#0	21.78	23.91	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#24	21.66	23.79	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#49	21.73	23.86	33.00	PASS
Band7	10MHz	16QAM	21400	50RB#0	20.76	22.89	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#0	22.86	24.99	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#38	22.74	24.87	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#74	22.66	24.79	33.00	PASS
Band7	15MHz	QPSK	20825	75RB#0	21.87	24	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#0	22.69	24.82	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#38	22.60	24.73	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#74	22.68	24.81	33.00	PASS
Band7	15MHz	QPSK	21100	75RB#0	21.77	23.9	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#0	22.77	24.9	33.00	PASS



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Band7	15MHz	QPSK	21375	1RB#38	22.81	24.94	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#74	22.85	24.98	33.00	PASS
Band7	15MHz	QPSK	21375	75RB#0	21.88	24.01	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#0	22.13	24.26	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#38	21.99	24.12	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#74	22.04	24.17	33.00	PASS
Band7	15MHz	16QAM	20825	75RB#0	20.83	22.96	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#0	22.04	24.17	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#38	22.06	24.19	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#74	21.98	24.11	33.00	PASS
Band7	15MHz	16QAM	21100	75RB#0	20.78	22.91	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#0	22.18	24.31	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#38	22.03	24.16	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#74	22.16	24.29	33.00	PASS
Band7	15MHz	16QAM	21375	75RB#0	20.90	23.03	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#0	22.97	25.1	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#49	22.79	24.92	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#99	22.83	24.96	33.00	PASS
Band7	20MHz	QPSK	20850	100RB#0	21.84	23.97	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#0	22.74	24.87	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#49	22.72	24.85	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#99	22.75	24.88	33.00	PASS
Band7	20MHz	QPSK	21100	100RB#0	21.84	23.97	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#0	22.86	24.99	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#49	22.81	24.94	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#99	22.95	25.08	33.00	PASS
Band7	20MHz	QPSK	21350	100RB#0	21.84	23.97	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#0	22.08	24.21	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#49	21.90	24.03	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#99	21.94	24.07	33.00	PASS
Band7	20MHz	16QAM	20850	100RB#0	20.83	22.96	33.00	PASS



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Band7	20MHz	16QAM	21100	1RB#0	21.93	24.06	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#49	21.89	24.02	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#99	21.87	24	33.00	PASS
Band7	20MHz	16QAM	21100	100RB#0	20.90	23.03	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#0	22.19	24.32	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#49	22.01	24.14	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#99	22.08	24.21	33.00	PASS
Band7	20MHz	16QAM	21350	100RB#0	20.87	23	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
Band7	20MHz	QPSK	20850	100RB#0	5.08	13	PASS
Band7	20MHz	QPSK	21100	100RB#0	5.46	13	PASS
Band7	20MHz	QPSK	21350	100RB#0	5.06	13	PASS
Band7	20MHz	16QAM	20850	100RB#0	5.98	13	PASS
Band7	20MHz	16QAM	21100	100RB#0	6.24	13	PASS
Band7	20MHz	16QAM	21350	100RB#0	5.98	13	PASS



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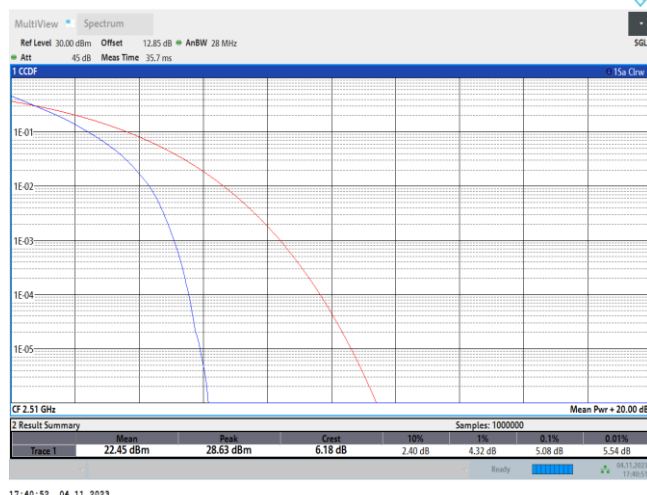
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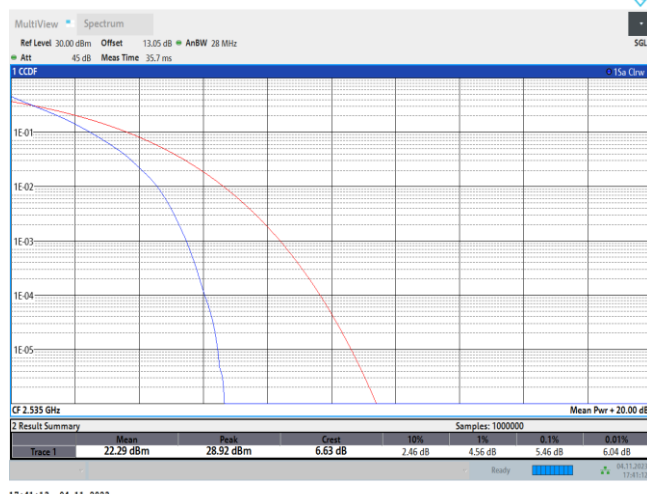
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Test Graphs

Band7-20MHz-QPSK-20850-100RB#0



Band7-20MHz-QPSK-21100-100RB#0



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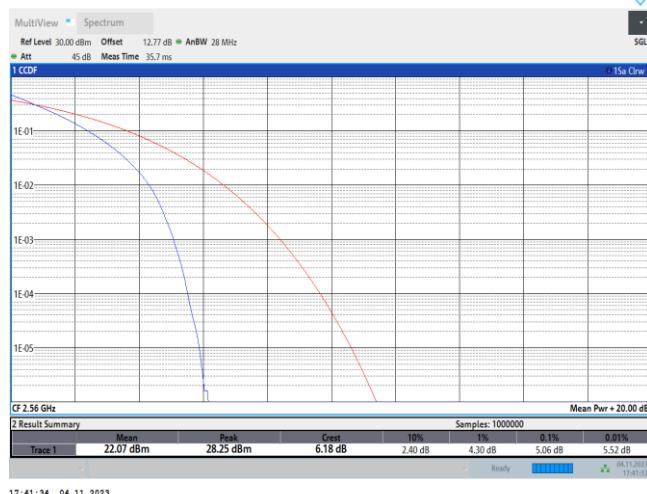
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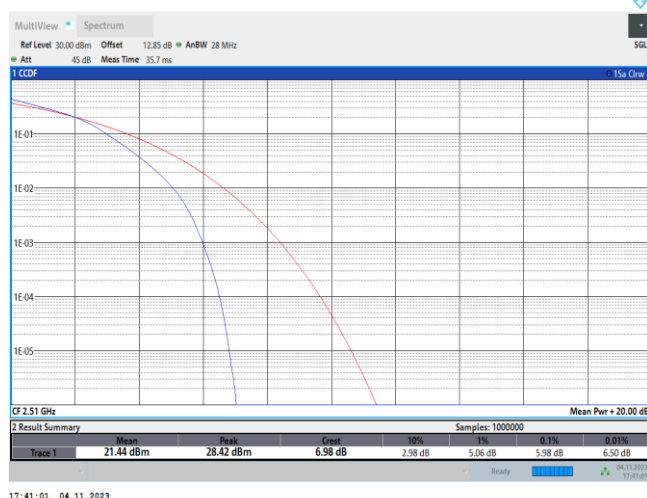
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Band7-20MHz-QPSK-21350-100RB#0



Band7-20MHz-16QAM-20850-100RB#0



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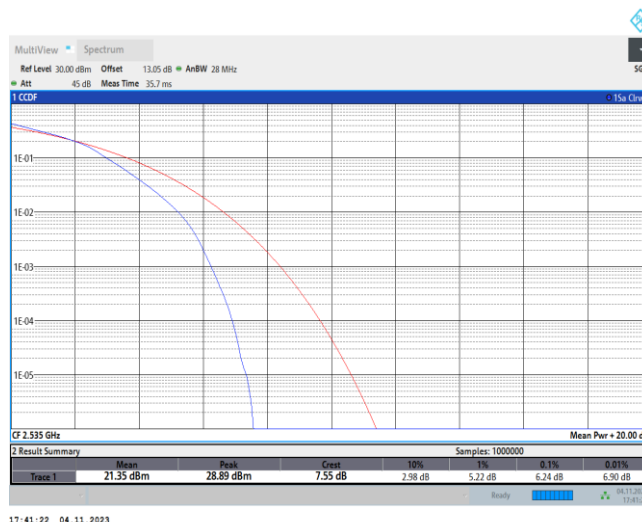
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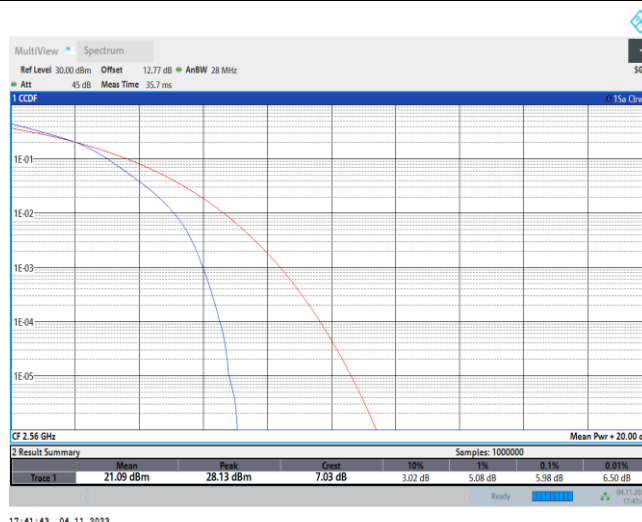
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Band7-20MHz-16QAM-21100-100RB#0



Band7-20MHz-16QAM-21350-100RB#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
Band7	5MHz	QPSK	20775	25RB#0	4.482	4.91	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.486	4.92	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.487	4.91	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.471	4.85	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.474	4.84	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.473	4.85	PASS
Band7	10MHz	QPSK	20800	50RB#0	8.934	9.70	PASS
Band7	10MHz	QPSK	21100	50RB#0	8.955	9.68	PASS
Band7	10MHz	QPSK	21400	50RB#0	8.931	9.70	PASS
Band7	10MHz	16QAM	20800	50RB#0	8.928	9.58	PASS
Band7	10MHz	16QAM	21100	50RB#0	8.935	9.56	PASS
Band7	10MHz	16QAM	21400	50RB#0	8.922	9.58	PASS
Band7	15MHz	QPSK	20825	75RB#0	13.458	14.73	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.473	14.88	PASS
Band7	15MHz	QPSK	21375	75RB#0	13.455	14.85	PASS
Band7	15MHz	16QAM	20825	75RB#0	13.451	14.73	PASS
Band7	15MHz	16QAM	21100	75RB#0	13.464	14.76	PASS
Band7	15MHz	16QAM	21375	75RB#0	13.445	14.73	PASS
Band7	20MHz	QPSK	20850	100RB#0	17.867	19.28	PASS
Band7	20MHz	QPSK	21100	100RB#0	17.895	19.32	PASS
Band7	20MHz	QPSK	21350	100RB#0	17.871	19.20	PASS
Band7	20MHz	16QAM	20850	100RB#0	17.925	19.44	PASS
Band7	20MHz	16QAM	21100	100RB#0	17.956	19.40	PASS
Band7	20MHz	16QAM	21350	100RB#0	17.909	19.44	PASS



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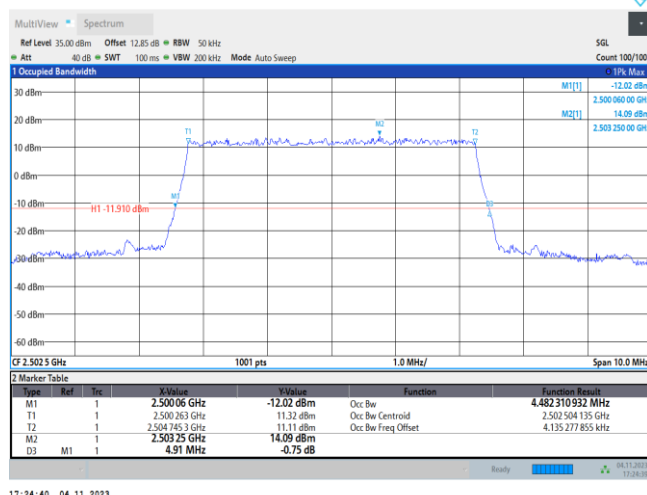
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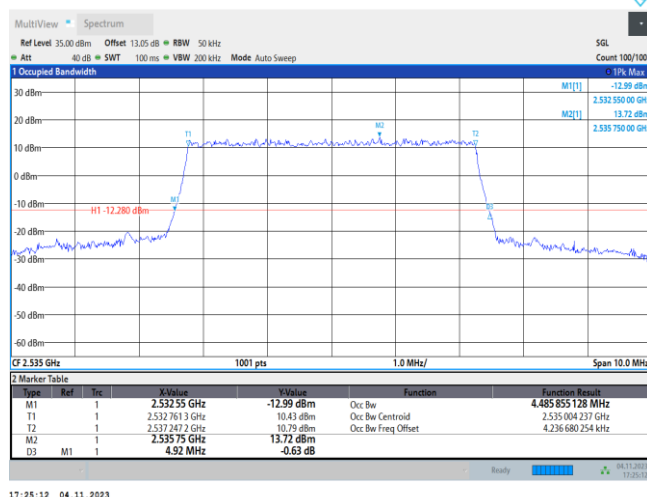
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Test Graphs

Band7-5MHz-QPSK-20775-25RB#0



Band7-5MHz-QPSK-21100-25RB#0



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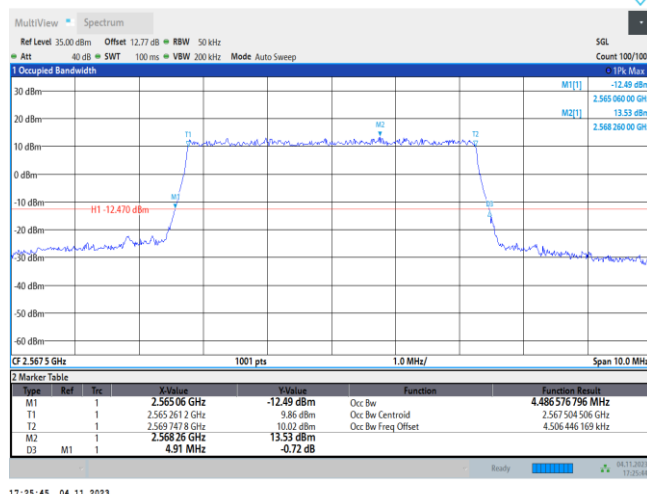
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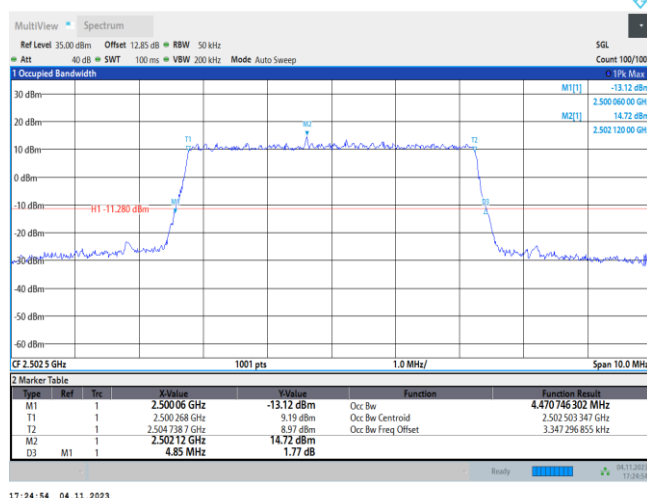
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Band7-5MHz-16QAM-20775-25RB#0



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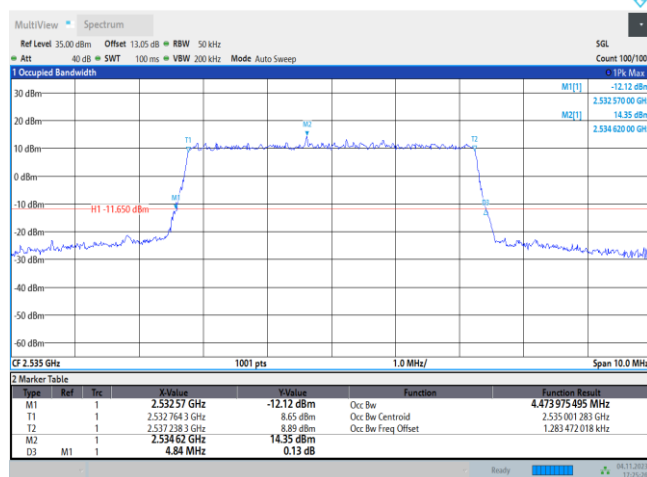
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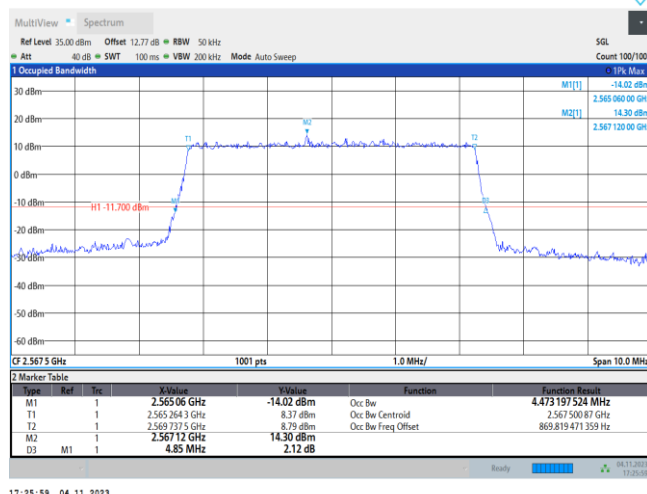
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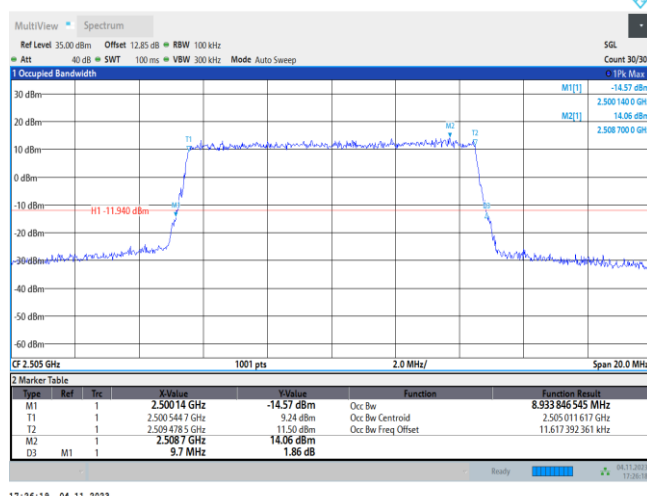
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Band7-10MHz-QPSK-20800-50RB#0



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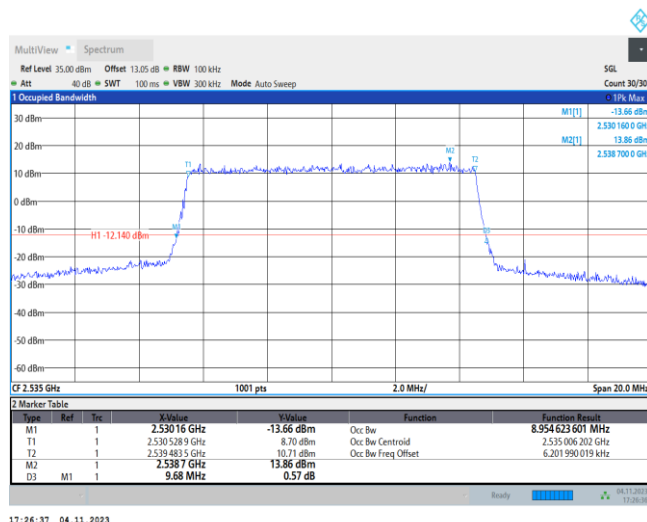
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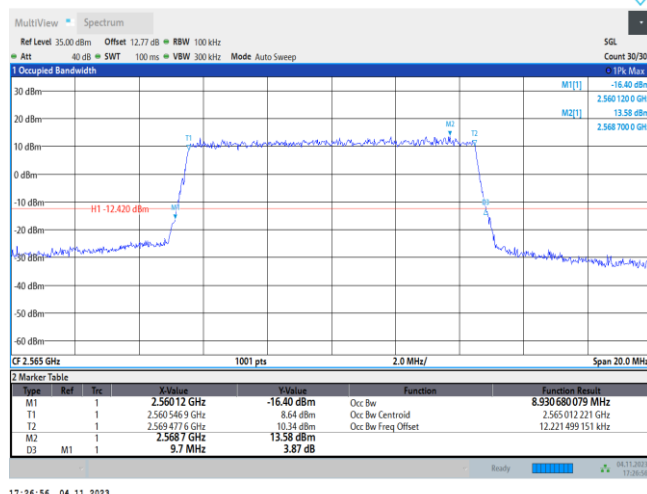
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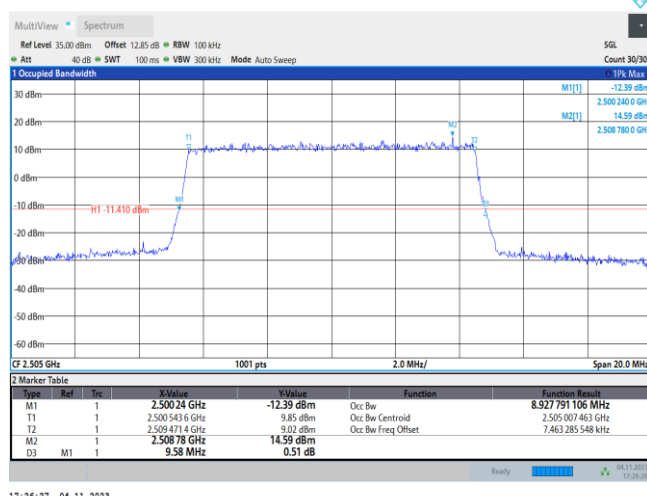
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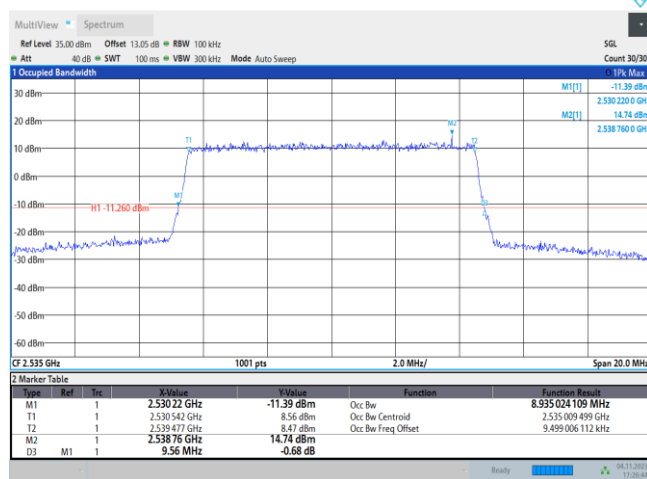
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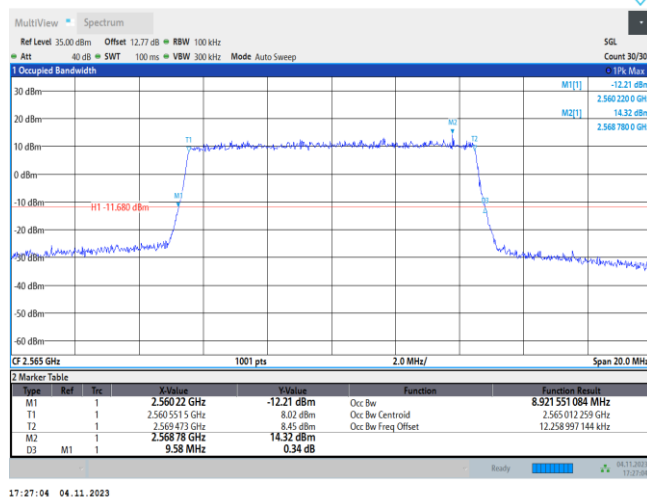
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Band7-15MHz-QPSK-20825-75RB#0



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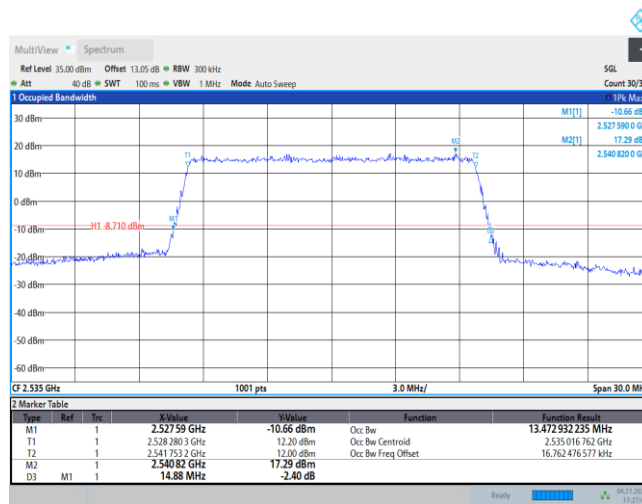
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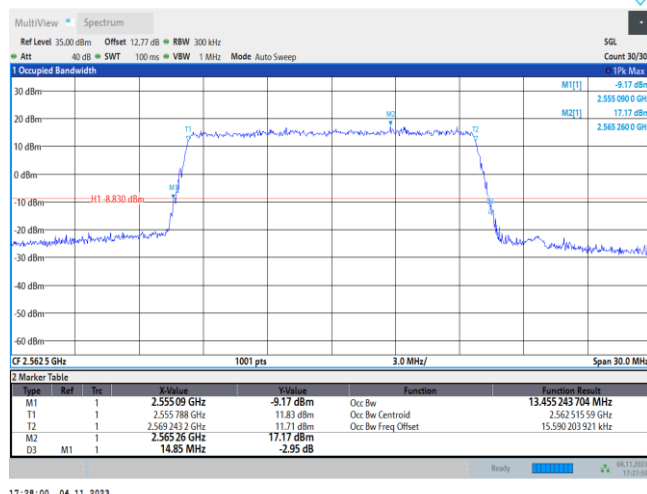
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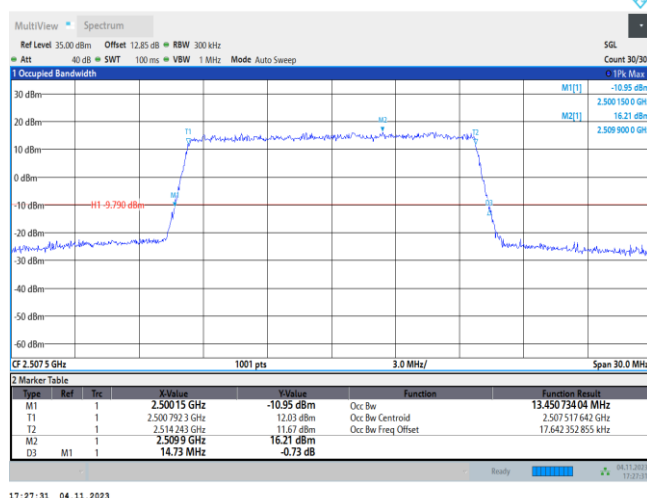
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Band7-15MHz-QPSK-21375-75RB#0



Band7-15MHz-16QAM-20825-75RB#0



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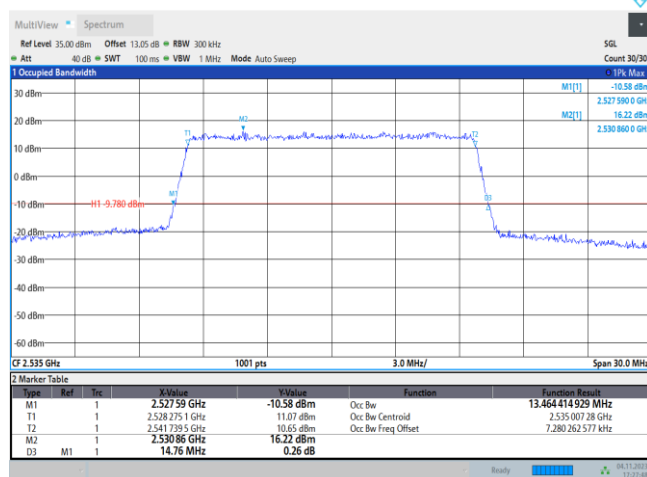
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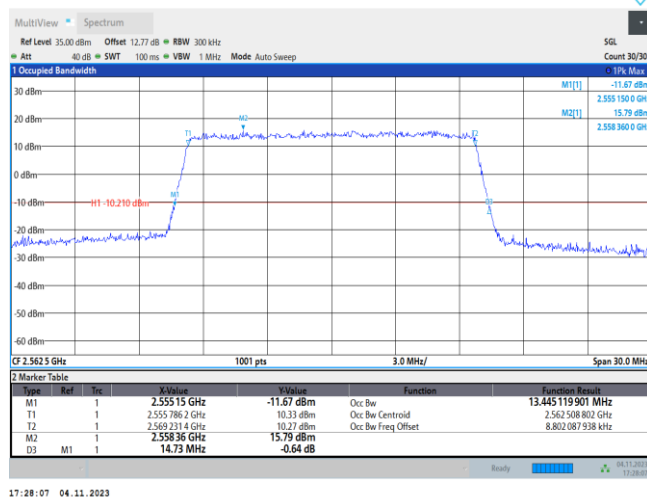
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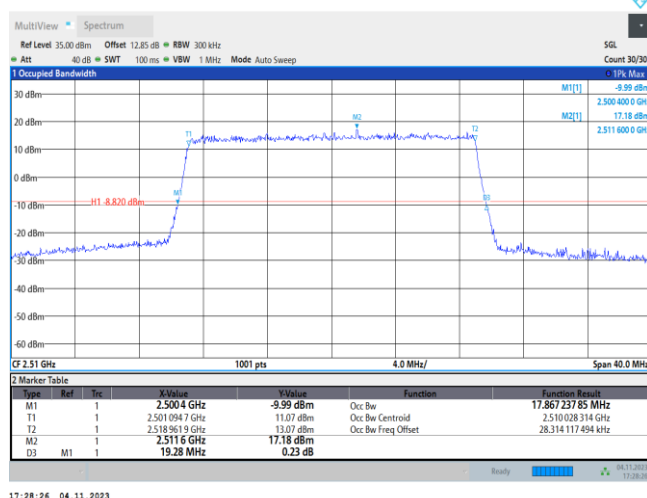
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Band7-15MHz-16QAM-21375-75RB#0



Band7-20MHz-QPSK-20850-100RB#0



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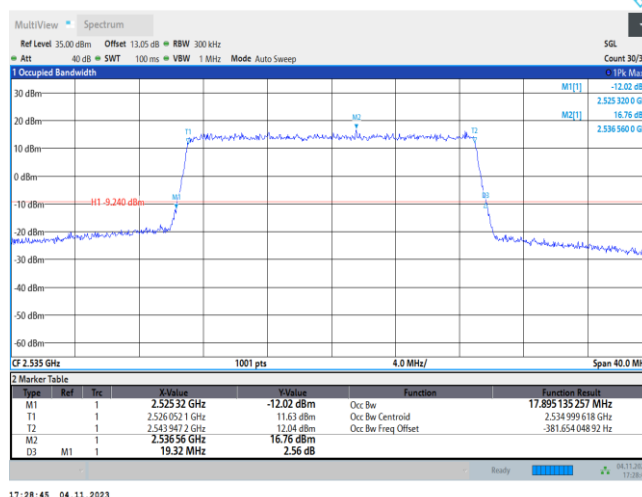
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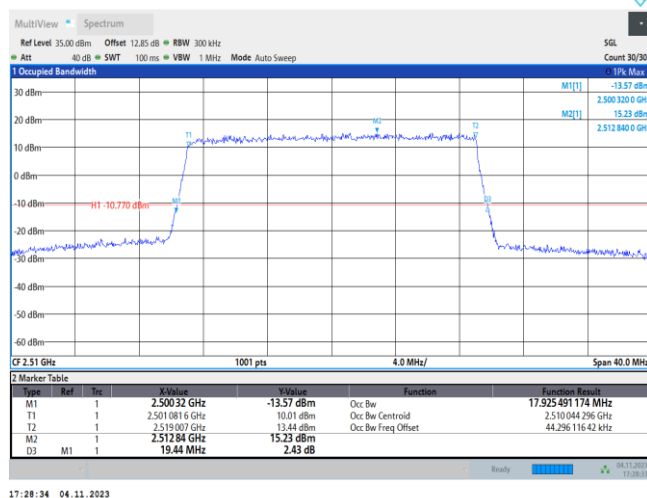
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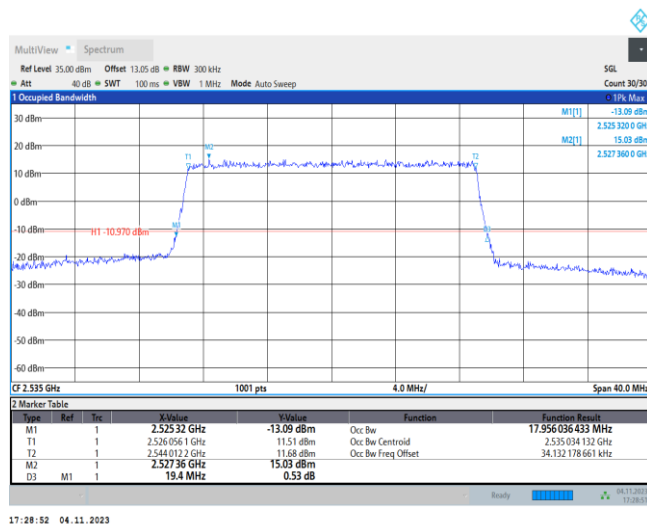
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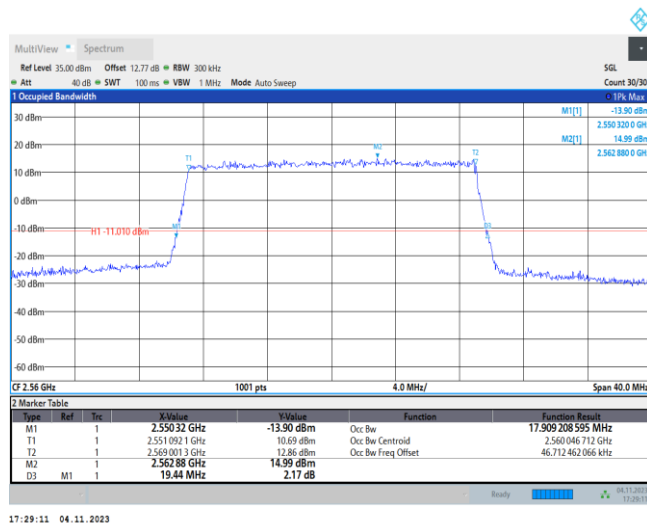
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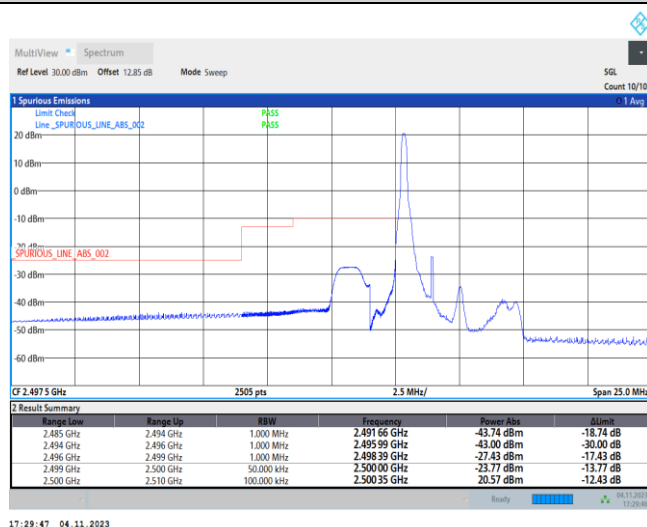
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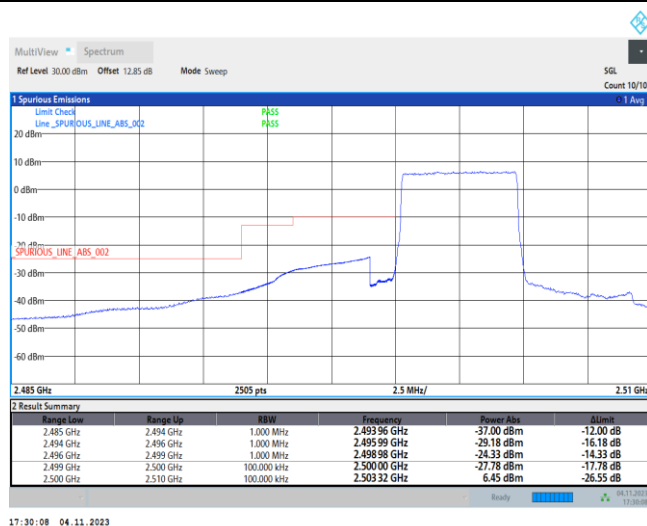
Band Edge

Test Graphs

Band7-5MHz-QPSK-20775-1RB#0



Band7-5MHz-QPSK-20775-25RB#0



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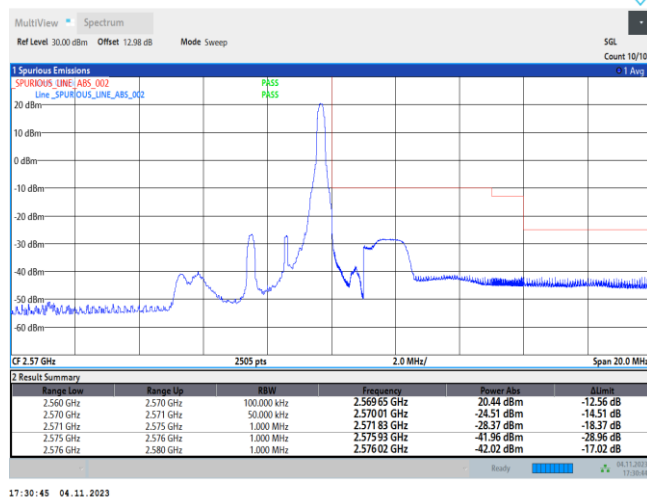
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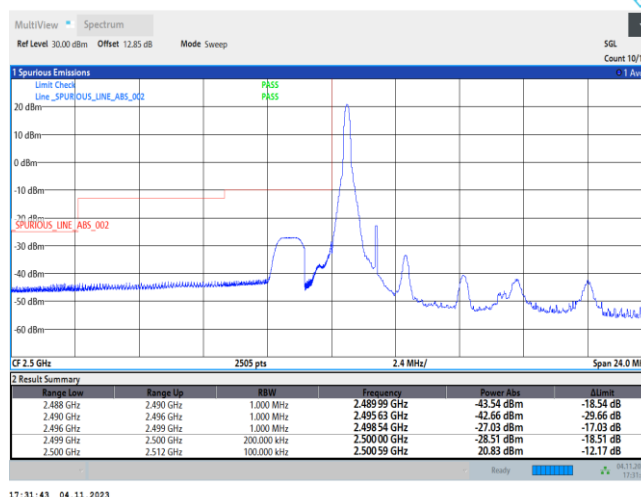
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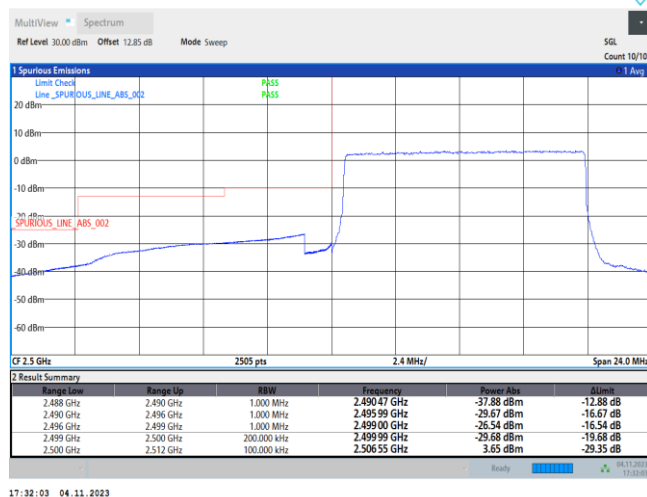
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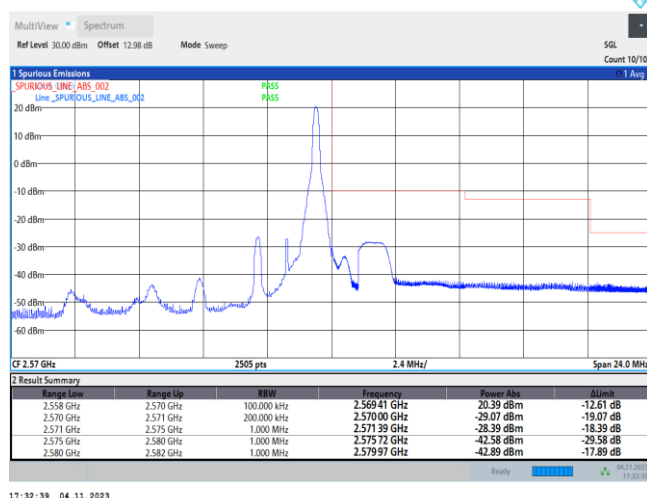
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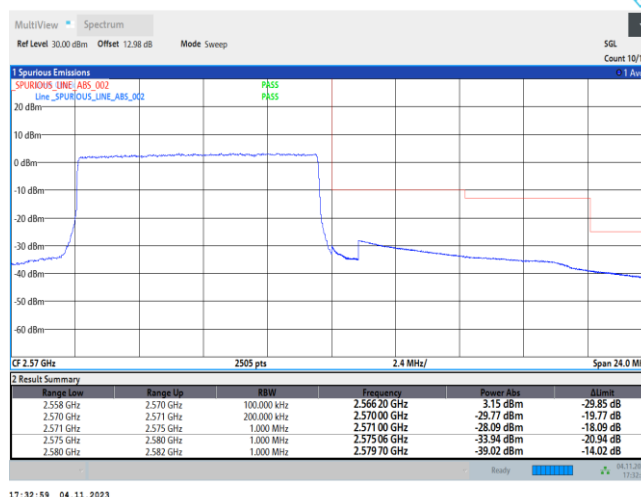
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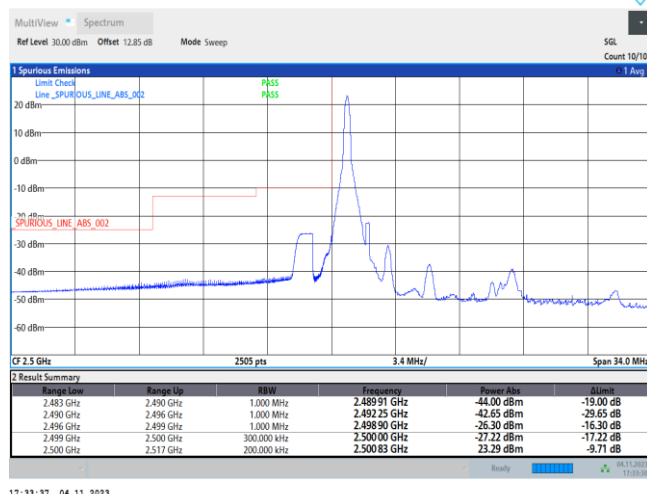
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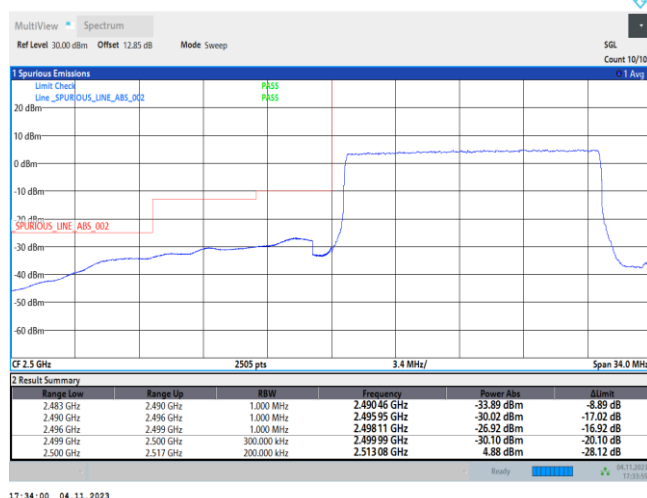
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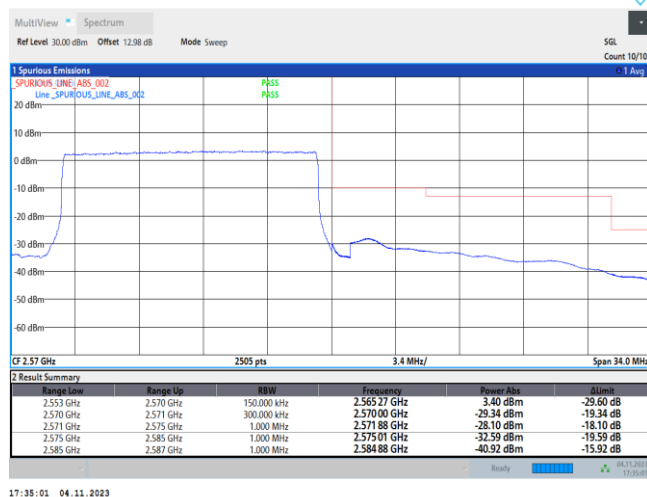
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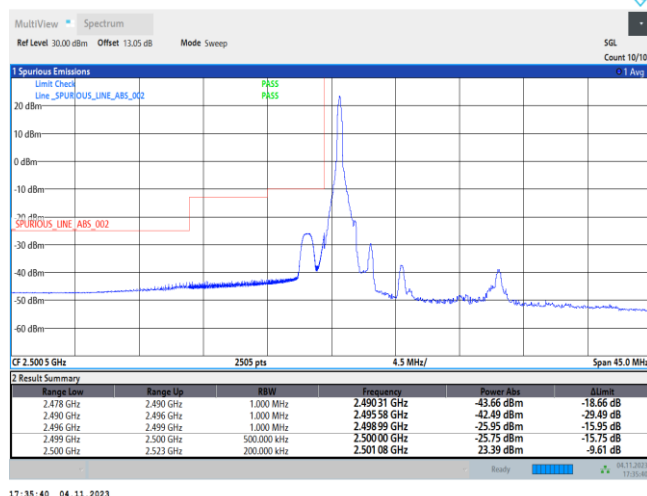
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Band7-15MHz-QPSK-21375-75RB#0



Band7-20MHz-QPSK-20850-1RB#0



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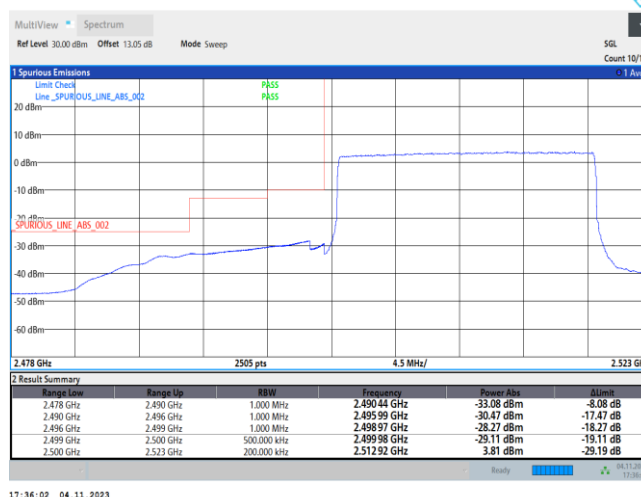
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Band7-20MHz-QPSK-20850-100RB#0



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Band7-20MHz-QPSK-21350-1RB#99



Band7-20MHz-QPSK-21350-100RB#0



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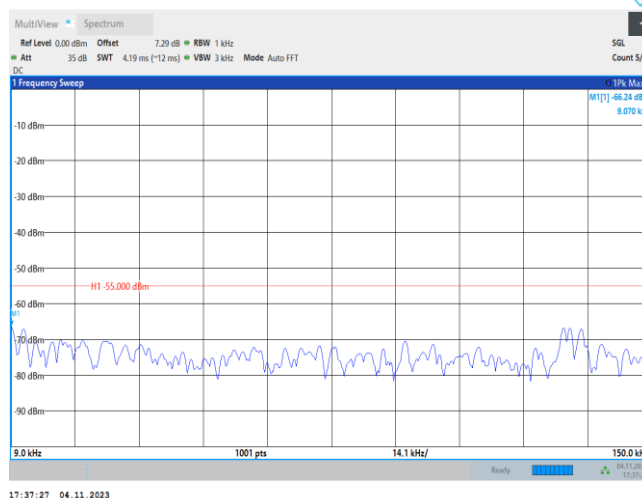
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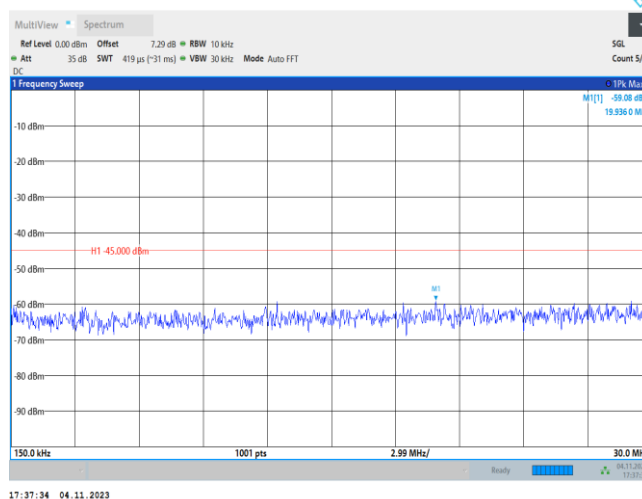
Conducted Spurious Emission

Test Graphs

Band7-20MHz-QPSK-20850-1RB#0-Range1:0.009~0.15MHz



Band7-20MHz-QPSK-20850-1RB#0-Range2:0.15~30MHz



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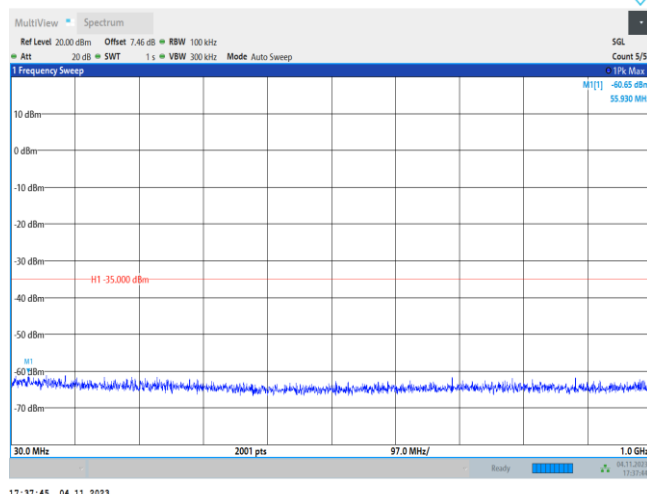
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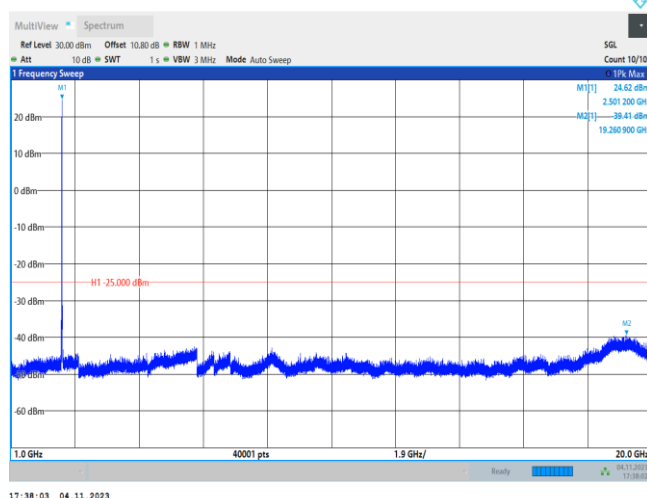
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Band7-20MHz-QPSK-20850-1RB#0-Range3:30~1000MHz



Band7-20MHz-QPSK-20850-1RB#0-Range4:1000~20000MHz



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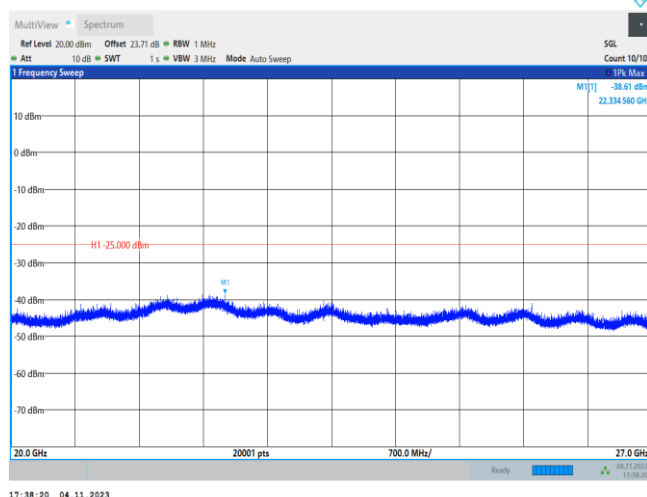
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Band7-20MHz-QPSK-20850-1RB#0-Range5:20000~27000MHz



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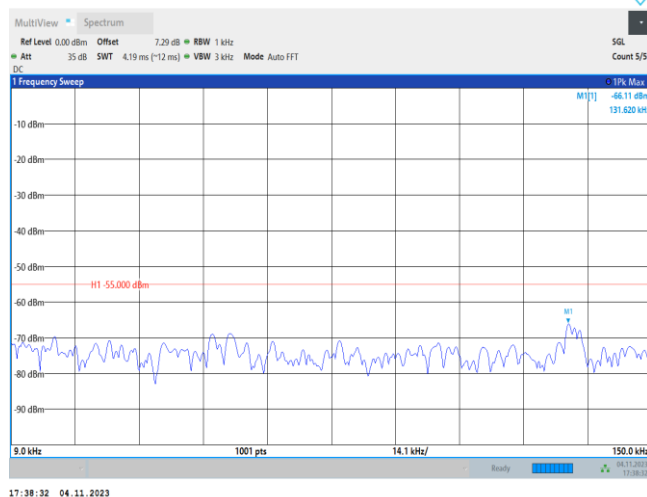
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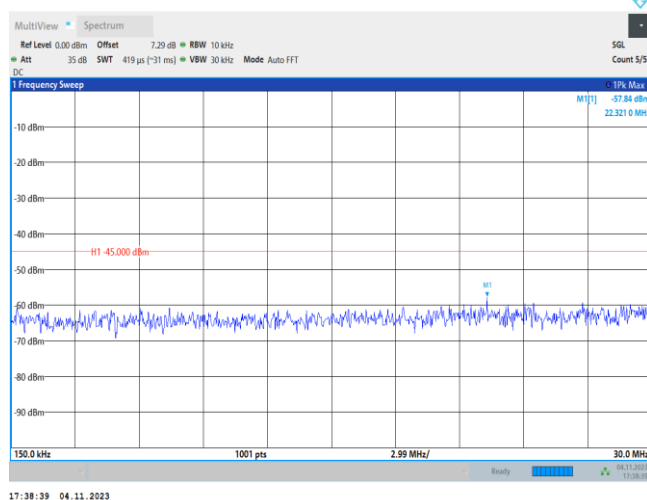
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Band7-20MHz-QPSK-21100-1RB#0-Range1:0.009~0.15MHz



Band7-20MHz-QPSK-21100-1RB#0-Range2:0.15~30MHz



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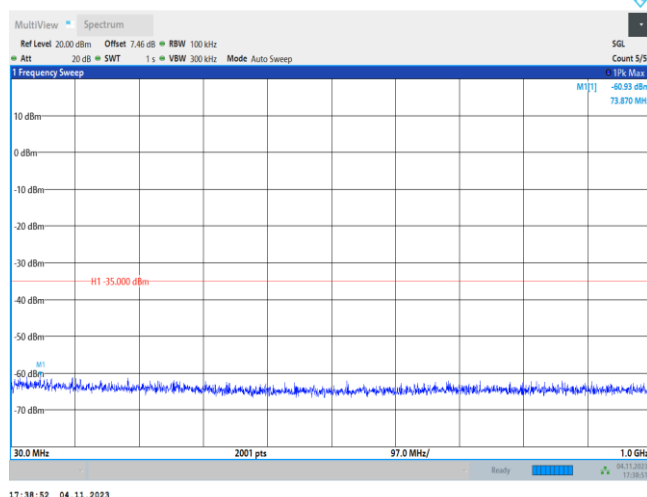
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Band7-20MHz-QPSK-21100-1RB#0-Range3:30~1000MHz



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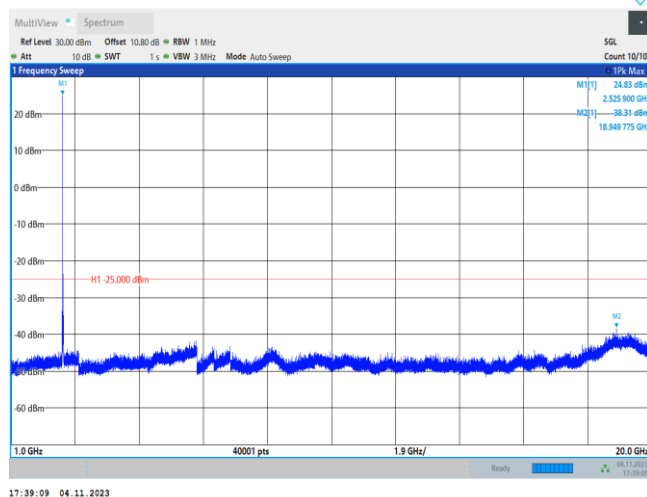
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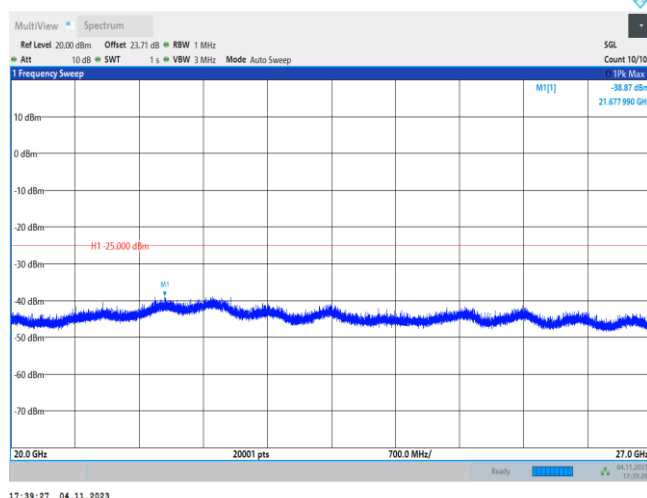
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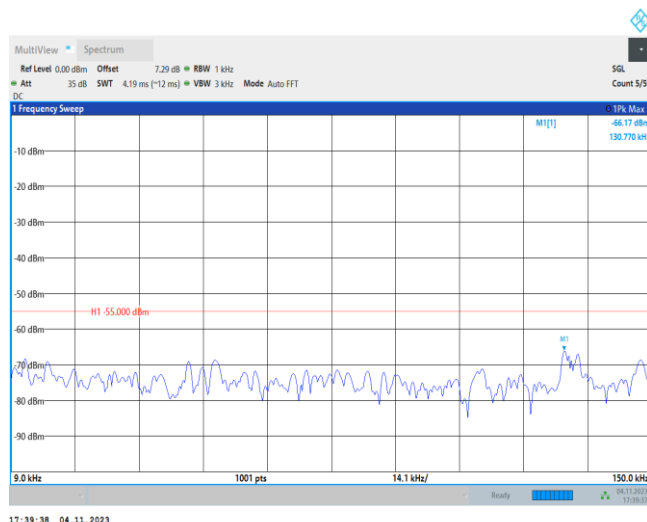
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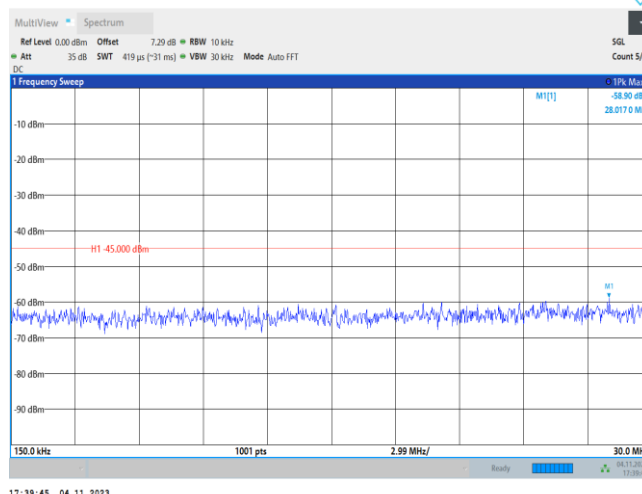
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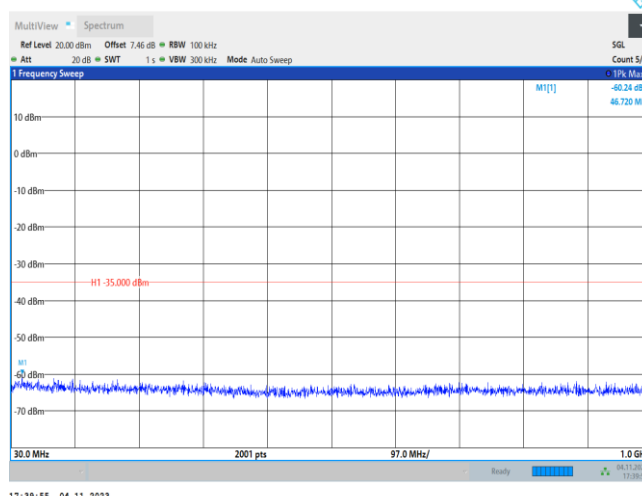
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Band7-20MHz-QPSK-21350-1RB#0-Range3:30~1000MHz



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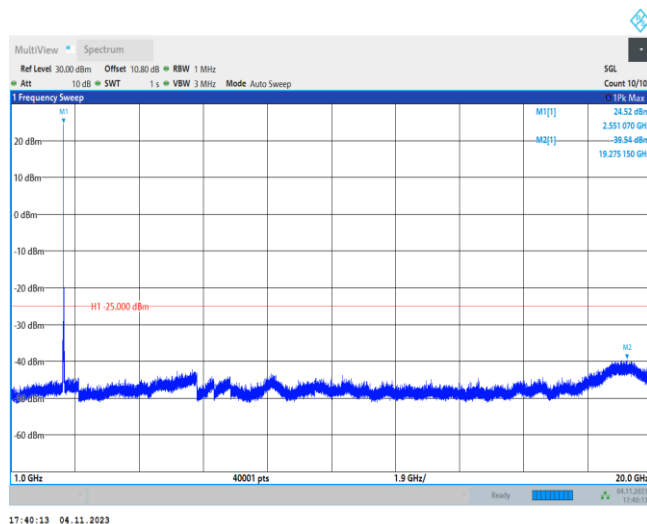
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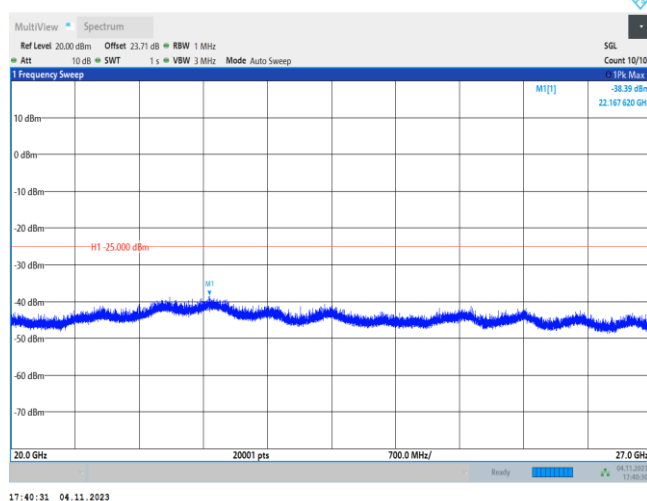
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Report No.: XEWA2310000073RG01

Rev.: 01

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Field Strength of Spurious Radiation**Test Band = LTE_7_TM1****Test Channel = LCH**

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2999	37.19	-17.44	28.59	-46.92	-25.00	21.92	Horizontal
2	3944	46.43	-44.19	29.88	-63.14	-25.00	38.14	Horizontal
3	5002	67.25	-42.72	31.22	-39.51	-25.00	14.51	Horizontal
4	7503.5	44.15	-38.31	36.87	-52.55	-25.00	27.55	Horizontal
5	10004.5	45.39	-37.59	38.70	-48.76	-25.00	23.76	Horizontal
6	16356.5	41.23	-35.06	38.67	-50.42	-25.00	25.42	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2999.5	37.28	-17.44	28.60	-46.82	-25.00	21.82	Vertical
2	5002	70.22	-42.72	31.22	-36.54	-25.00	11.54	Vertical
3	7503	46.75	-38.31	36.87	-49.95	-25.00	24.95	Vertical
4	10004.5	52.71	-37.59	38.70	-41.44	-25.00	16.44	Vertical
5	12505.5	46.74	-39.58	38.99	-49.11	-25.00	24.11	Vertical
6	16412.5	40.43	-34.92	38.86	-50.89	-25.00	25.89	Vertical



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Test Band = LTE_7_TM1

Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2982	37.31	-17.32	28.49	-46.78	-25.00	21.78	Horizontal
2	3954	46.85	-44.18	29.89	-62.70	-25.00	37.70	Horizontal
3	5052	67.29	-42.62	31.60	-38.99	-25.00	13.99	Horizontal
4	7376	43.49	-38.42	36.60	-53.59	-25.00	28.59	Horizontal
5	10104.5	43.62	-37.56	38.80	-50.40	-25.00	25.40	Horizontal
6	16353.5	40.76	-35.08	38.66	-50.92	-25.00	25.92	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2979.5	37.28	-17.29	28.48	-46.79	-25.00	21.79	Vertical
2	5052	69.91	-42.62	31.60	-36.37	-25.00	11.37	Vertical
3	7578.5	43.50	-38.70	36.63	-53.83	-25.00	28.83	Vertical
4	10104	50.83	-37.56	38.80	-43.19	-25.00	18.19	Vertical
5	12630.5	43.84	-39.19	38.90	-51.71	-25.00	26.71	Vertical
6	16386.5	40.88	-34.89	38.76	-50.51	-25.00	25.51	Vertical



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Test Band = LTE_7_TM1

Test Channel = HCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2989	37.29	-17.41	28.53	-46.85	-25.00	21.85	Horizontal
2	3748	47.20	-44.71	29.59	-63.18	-25.00	38.18	Horizontal
3	5102	68.11	-42.52	31.51	-38.16	-25.00	13.16	Horizontal
4	7403	43.35	-38.28	36.71	-53.48	-25.00	28.48	Horizontal
5	10204.5	44.86	-38.03	38.72	-49.71	-25.00	24.71	Horizontal
6	16388	40.54	-34.89	38.76	-50.85	-25.00	25.85	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2996.5	37.23	-17.43	28.58	-46.88	-25.00	21.88	Vertical
2	5102	69.76	-42.52	31.51	-36.51	-25.00	11.51	Vertical
3	7653	43.82	-38.15	36.61	-52.98	-25.00	27.98	Vertical
4	10204.5	52.90	-38.03	38.72	-41.67	-25.00	16.67	Vertical
5	12755.5	43.49	-39.46	38.96	-52.27	-25.00	27.27	Vertical
6	17991.5	39.35	-43.11	48.05	-50.97	-25.00	25.97	Vertical

Remark:

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

AF = Antenna Factor(dB/m)

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

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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Frequency Stability

Test Result

Voltage									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band7	20MHz	QPSK	21100	100RB#0	VL	NT	17.02	0.006714	PASS
Band7	20MHz	QPSK	21100	100RB#0	VN	NT	-4.48	-0.001767	PASS
Band7	20MHz	QPSK	21100	100RB#0	VH	NT	-9.17	-0.003617	PASS

Temperature									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band7	20MHz	QPSK	21100	100RB#0	NV	-30	12.12	0.004781	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-20	-13.06	-0.005152	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-10	-4.72	-0.001862	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	0	9.17	0.003617	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	10	17.34	0.006840	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	20	-11.06	-0.004363	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	30	-5.84	-0.002304	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	40	11.70	0.004615	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	50	5.41	0.002134	PASS

---End of Attachment---



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