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	22.05	24.29	33.00	PASS
Band7	5MHz	QPSK	20775	1RB#12	22.23	24.47	33.00	PASS
Band7	5MHz	QPSK	20775	1RB#24	22.14	24.38	33.00	PASS
Band7	5MHz	QPSK	20775	25RB#0	21.12	23.36	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#0	22.27	24.51	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#12	22.38	24.62	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#24	22.21	24.45	33.00	PASS
Band7	5MHz	QPSK	21100	25RB#0	21.29	23.53	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#0	22.33	24.57	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#12	22.48	24.72	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#24	22.33	24.57	33.00	PASS
Band7	5MHz	QPSK	21425	25RB#0	21.35	23.59	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#0	21.17	23.41	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#12	21.38	23.62	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#24	21.30	23.54	33.00	PASS
Band7	5MHz	16QAM	20775	25RB#0	20.09	22.33	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#0	21.19	23.43	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#12	21.33	23.57	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#24	21.16	23.40	33.00	PASS
Band7	5MHz	16QAM	21100	25RB#0	20.20	22.44	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#0	21.46	23.70	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#12	21.60	23.84	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#24	21.45	23.69	33.00	PASS
Band7	5MHz	16QAM	21425	25RB#0	20.34	22.58	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#0	22.06	24.30	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#24	22.18	24.42	33.00	PASS

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Band7	10MHz	QPSK	20800	1RB#49	22.24	24.48	33.00	PASS
Band7	10MHz	QPSK	20800	50RB#0	21.20	23.44	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#0	22.35	24.59	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#24	22.43	24.67	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#49	22.21	24.45	33.00	PASS
Band7	10MHz	QPSK	21100	50RB#0	21.34	23.58	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#0	22.38	24.62	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#24	22.53	24.77	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#49	22.30	24.54	33.00	PASS
Band7	10MHz	QPSK	21400	50RB#0	21.43	23.67	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#0	21.23	23.47	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#24	21.47	23.71	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#49	21.38	23.62	33.00	PASS
Band7	10MHz	16QAM	20800	50RB#0	20.15	22.39	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#0	21.44	23.68	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#24	21.55	23.79	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#49	21.30	23.54	33.00	PASS
Band7	10MHz	16QAM	21100	50RB#0	20.31	22.55	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#0	21.54	23.78	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#24	21.64	23.88	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#49	21.47	23.71	33.00	PASS
Band7	10MHz	16QAM	21400	50RB#0	20.37	22.61	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#0	22.04	24.28	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#38	22.21	24.45	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#74	22.20	24.44	33.00	PASS
Band7	15MHz	QPSK	20825	75RB#0	21.34	23.58	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#0	22.30	24.54	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#38	22.43	24.67	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#74	22.21	24.45	33.00	PASS
Band7	15MHz	QPSK	21100	75RB#0	21.46	23.70	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#0	22.36	24.60	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#38	22.46	24.70	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#74	22.43	24.67	33.00	PASS

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Band7	15MHz	QPSK	21375	75RB#0	21.48	23.72	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#0	21.16	23.40	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#38	21.37	23.61	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#74	21.40	23.64	33.00	PASS
Band7	15MHz	16QAM	20825	75RB#0	20.27	22.51	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#0	21.41	23.65	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#38	21.48	23.72	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#74	21.38	23.62	33.00	PASS
Band7	15MHz	16QAM	21100	75RB#0	20.38	22.62	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#0	21.62	23.86	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#38	21.70	23.94	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#74	21.57	23.81	33.00	PASS
Band7	15MHz	16QAM	21375	75RB#0	20.47	22.71	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#0	22.08	24.32	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#49	22.39	24.63	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#99	22.35	24.59	33.00	PASS
Band7	20MHz	QPSK	20850	100RB#0	21.23	23.47	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#0	22.42	24.66	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#49	22.46	24.70	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#99	22.27	24.51	33.00	PASS
Band7	20MHz	QPSK	21100	100RB#0	21.34	23.58	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#0	22.33	24.57	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#49	22.55	24.79	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#99	22.38	24.62	33.00	PASS
Band7	20MHz	QPSK	21350	100RB#0	21.25	23.49	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#0	21.10	23.34	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#49	21.45	23.69	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#99	21.34	23.58	33.00	PASS
Band7	20MHz	16QAM	20850	100RB#0	20.21	22.45	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#0	21.38	23.62	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#49	21.48	23.72	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#99	21.23	23.47	33.00	PASS
Band7	20MHz	16QAM	21100	100RB#0	20.29	22.53	33.00	PASS

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Band7	20MHz	16QAM	21350	1RB#0	21.48	23.72	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#49	21.67	23.91	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#99	21.46	23.70	33.00	PASS
Band7	20MHz	16QAM	21350	100RB#0	20.30	22.54	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	5.22	13	PASS
Band7	20MHz	QPSK	21100	100RB#0	4.84	13	PASS
Band7	20MHz	QPSK	21350	100RB#0	5.18	13	PASS
Band7	20MHz	16QAM	20850	100RB#0	5.96	13	PASS
Band7	20MHz	16QAM	21100	100RB#0	5.64	13	PASS
Band7	20MHz	16QAM	21350	100RB#0	6.02	13	PASS

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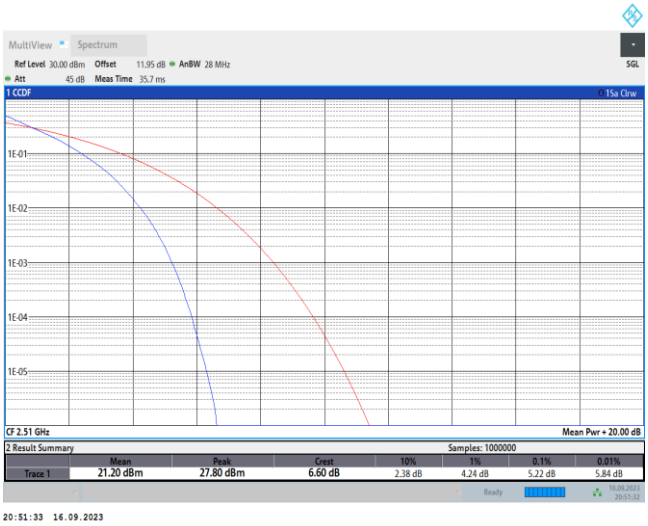
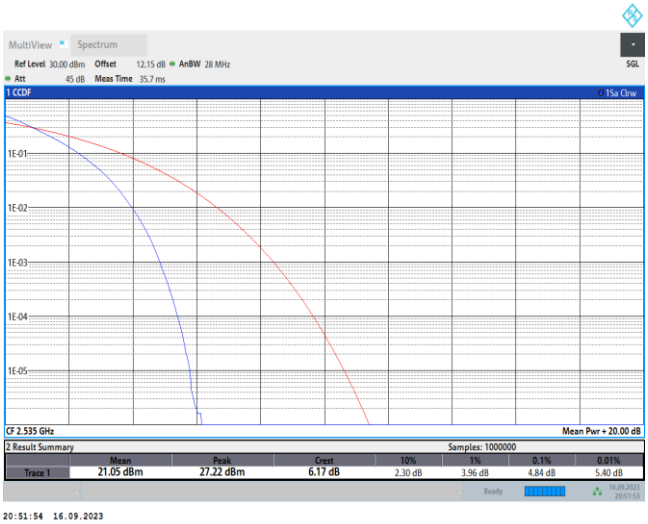
Test Graphs

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



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



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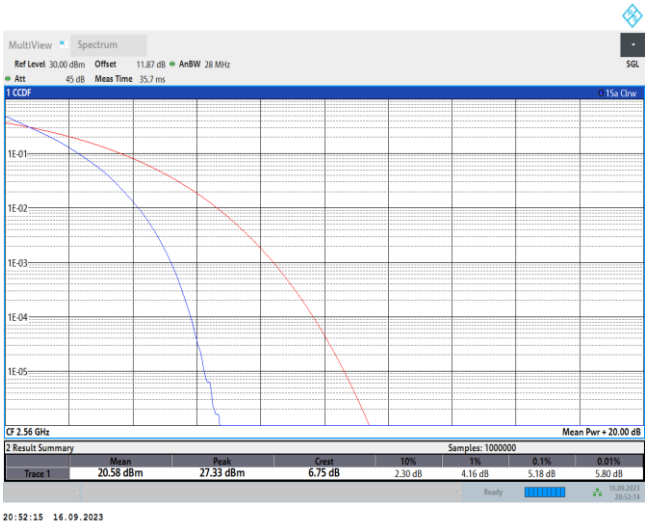
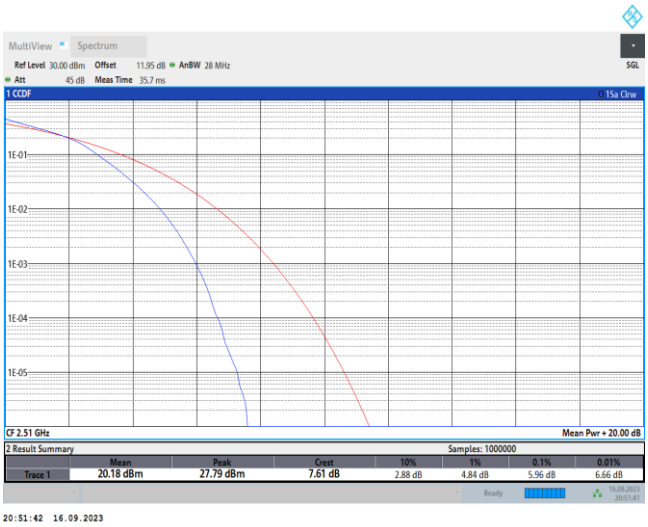


Band7-20MHz-16QAM-20850-100RB#0



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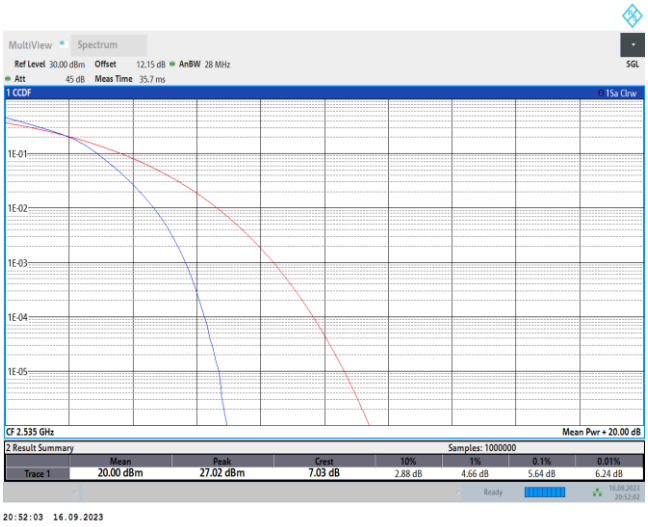
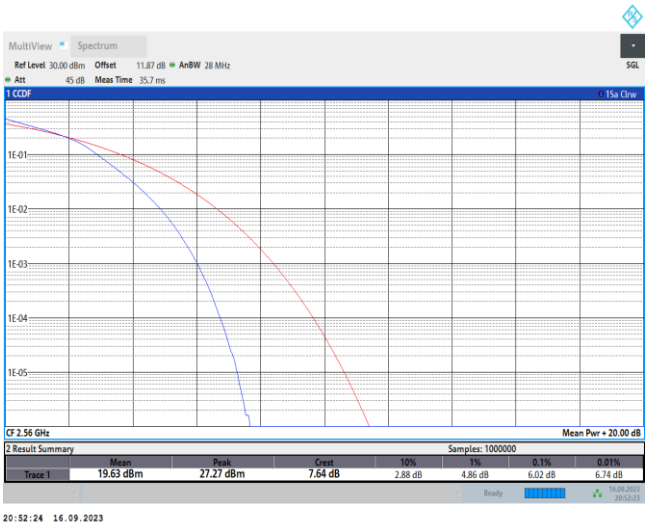
Band7-20MHz-16QAM-21100-100RB#0



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	4.496	4.88	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.487	4.98	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.488	4.98	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.509	4.85	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.487	5.00	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.489	5.00	PASS
Band7	10MHz	QPSK	20800	50RB#0	8.97	9.50	PASS
Band7	10MHz	QPSK	21100	50RB#0	8.942	9.66	PASS
Band7	10MHz	QPSK	21400	50RB#0	8.942	9.64	PASS
Band7	10MHz	16QAM	20800	50RB#0	8.915	9.62	PASS
Band7	10MHz	16QAM	21100	50RB#0	8.915	9.62	PASS
Band7	10MHz	16QAM	21400	50RB#0	8.924	9.60	PASS
Band7	15MHz	QPSK	20825	75RB#0	13.623	14.55	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.487	14.73	PASS
Band7	15MHz	QPSK	21375	75RB#0	13.474	14.70	PASS
Band7	15MHz	16QAM	20825	75RB#0	13.454	14.85	PASS
Band7	15MHz	16QAM	21100	75RB#0	13.452	14.76	PASS
Band7	15MHz	16QAM	21375	75RB#0	13.449	14.76	PASS
Band7	20MHz	QPSK	20850	100RB#0	17.932	19.60	PASS
Band7	20MHz	QPSK	21100	100RB#0	17.952	19.48	PASS
Band7	20MHz	QPSK	21350	100RB#0	17.928	19.40	PASS
Band7	20MHz	16QAM	20850	100RB#0	17.905	19.32	PASS
Band7	20MHz	16QAM	21100	100RB#0	17.901	19.36	PASS
Band7	20MHz	16QAM	21350	100RB#0	17.901	19.32	PASS

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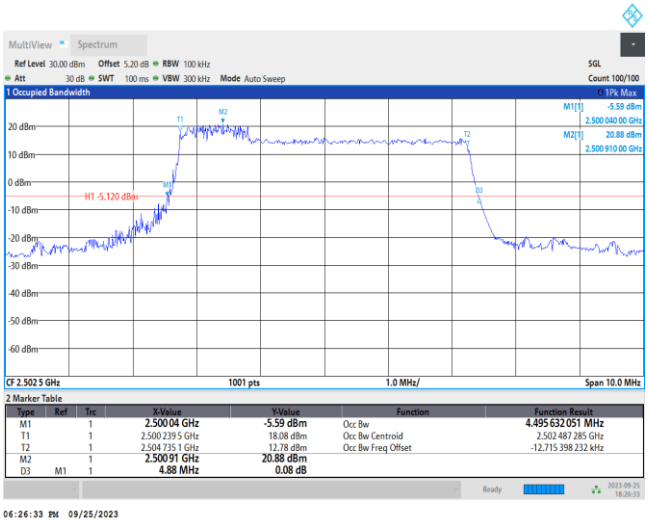
Test Graphs

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


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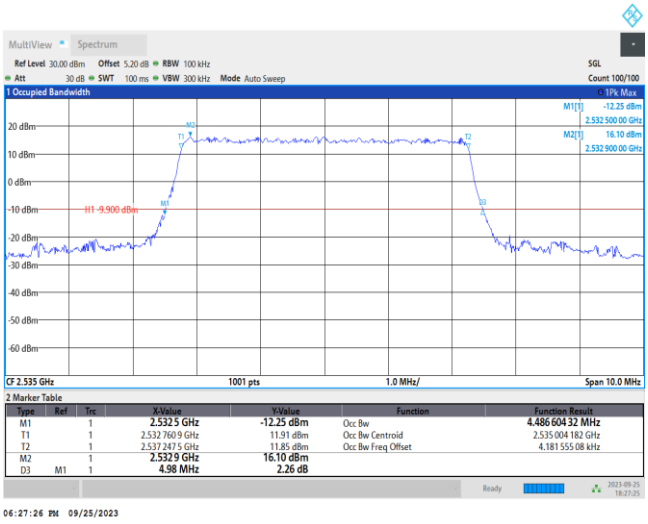

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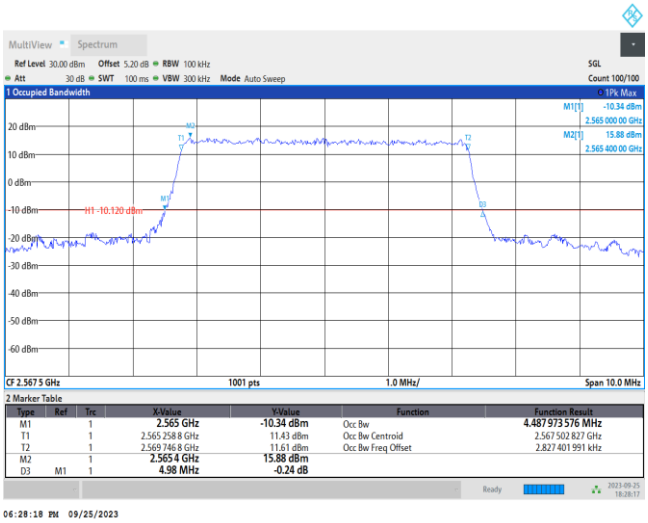
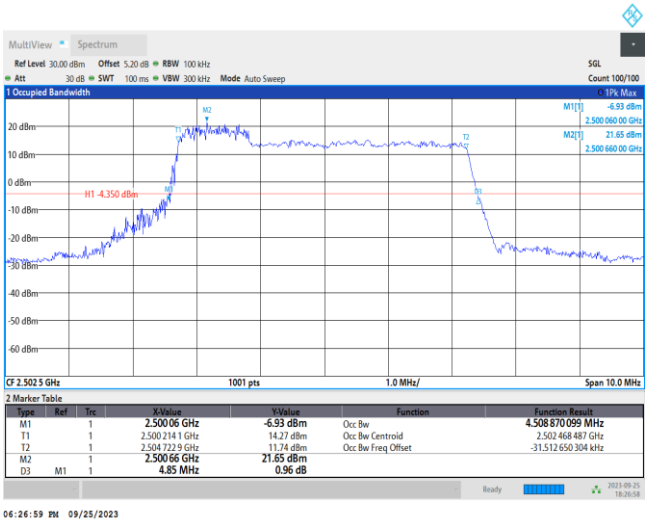
Band7-5MHz-QPSK-21425-25RB#0



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



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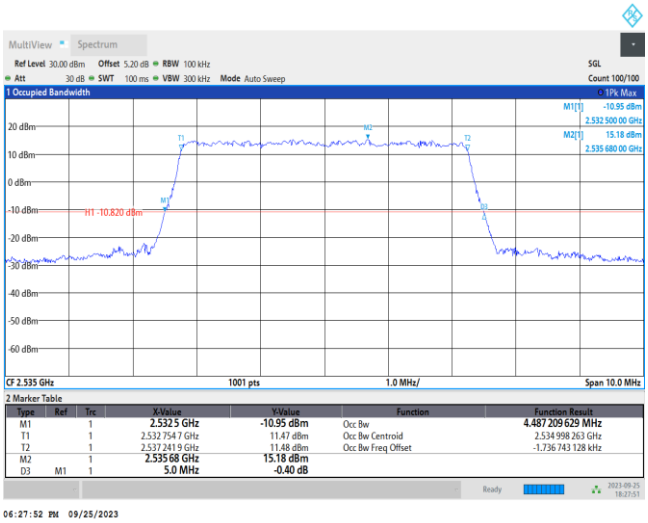
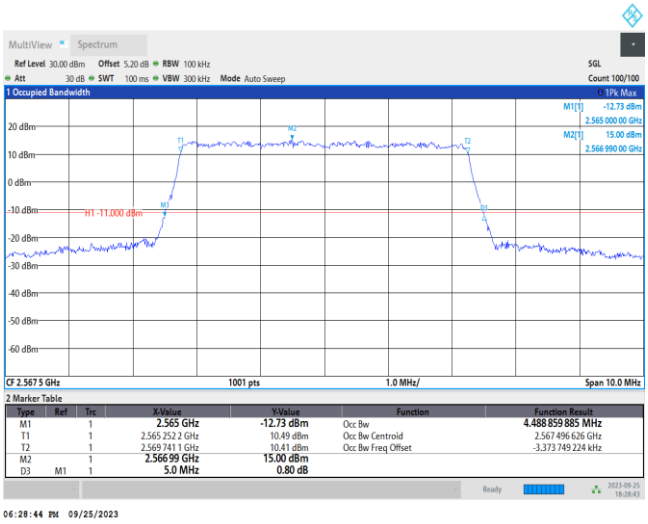
Band7-5MHz-16QAM-21100-25RB#0



Band7-5MHz-16QAM-21425-25RB#0



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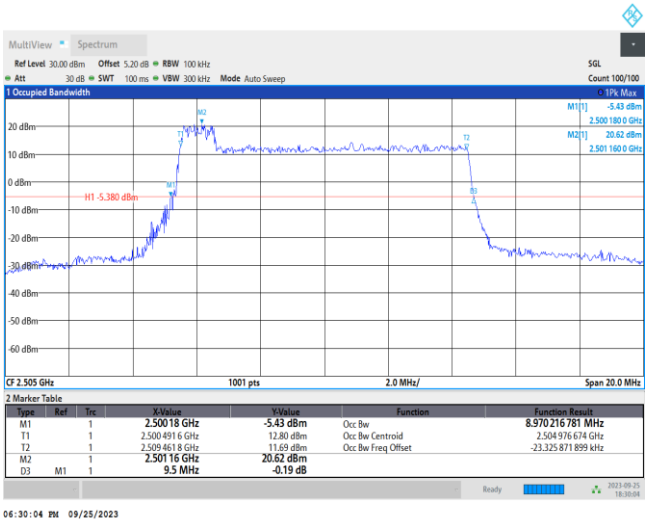
Band7-10MHz-QPSK-20800-50RB#0



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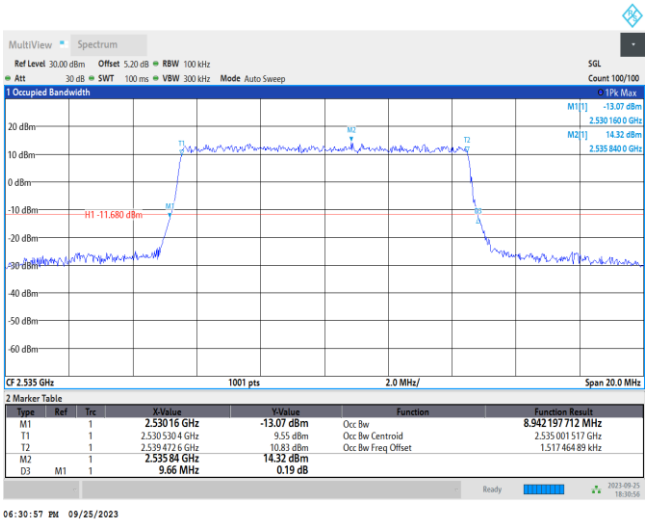

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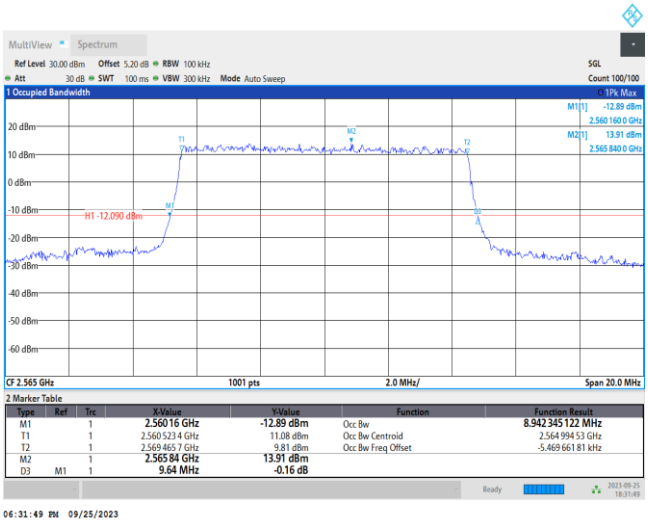
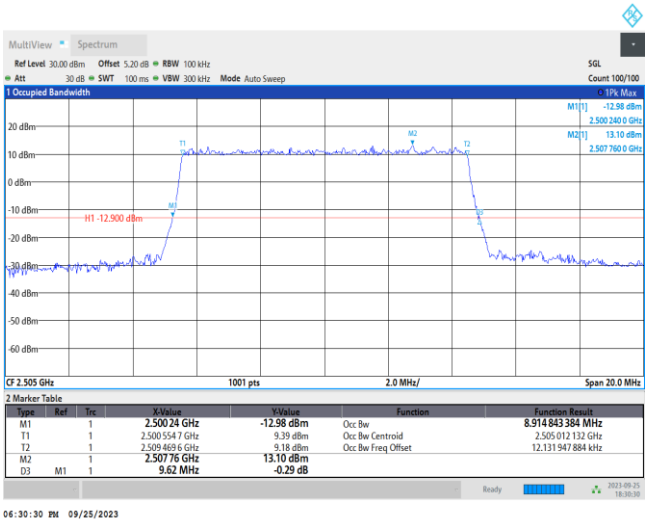


Band7-10MHz-16QAM-20800-50RB#0



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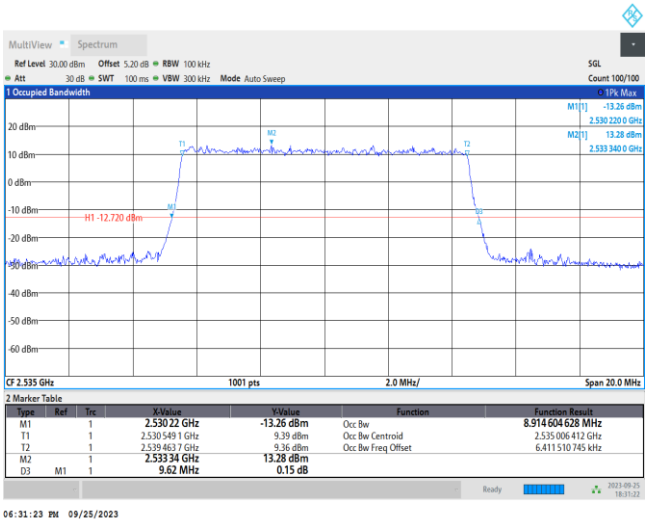

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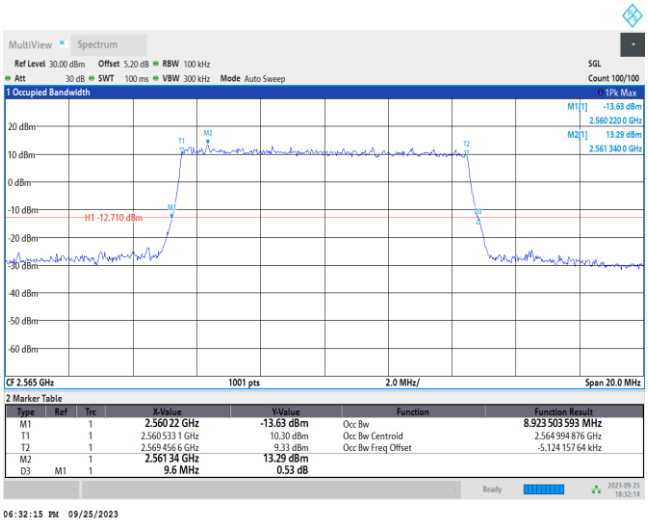

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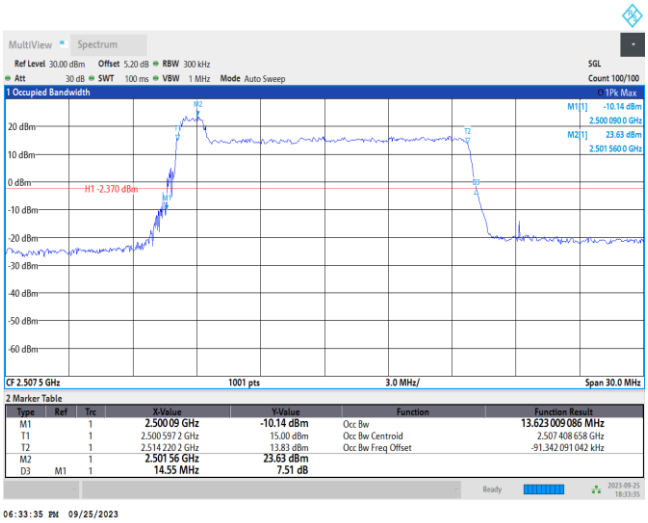
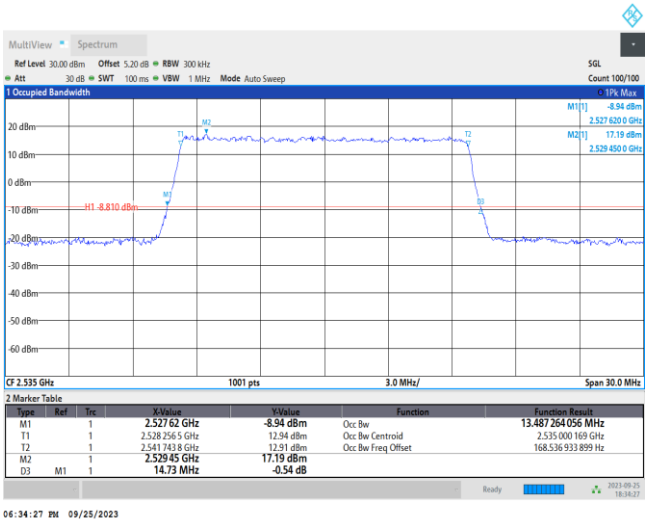
Band7-15MHz-QPSK-20825-75RB#0



Band7-15MHz-QPSK-21100-75RB#0



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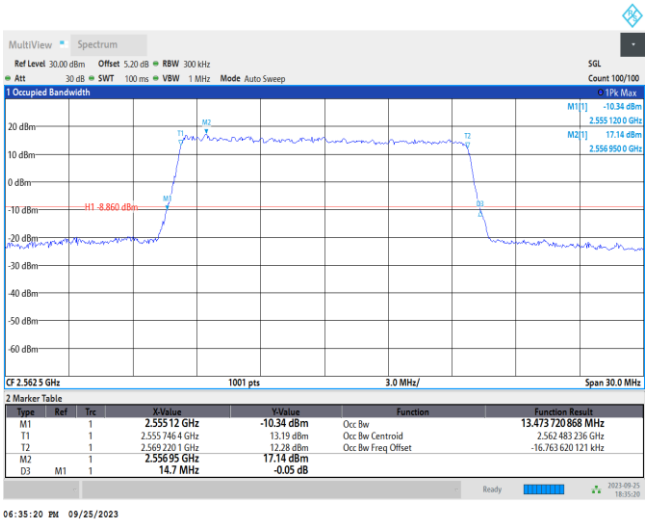
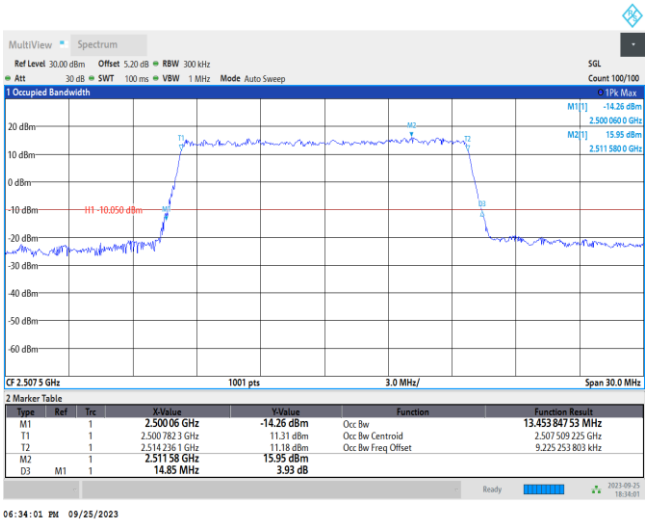
Band7-15MHz-QPSK-21375-75RB#0



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



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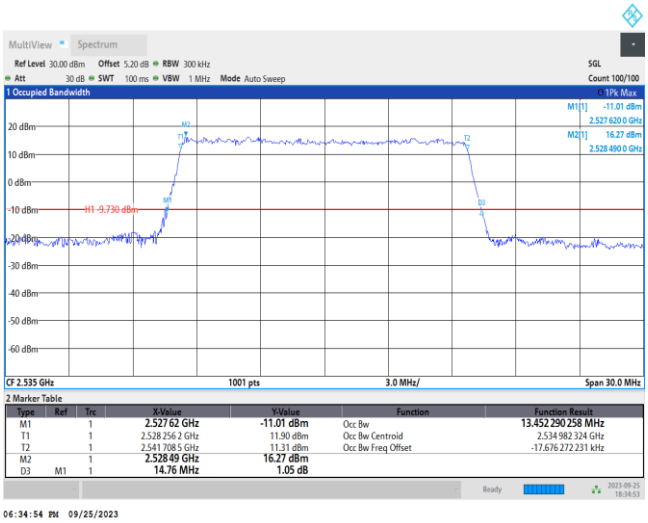
Band7-15MHz-16QAM-21100-75RB#0



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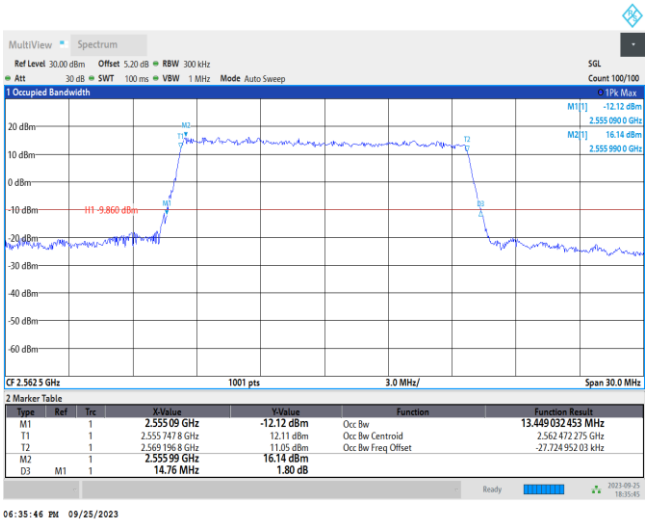

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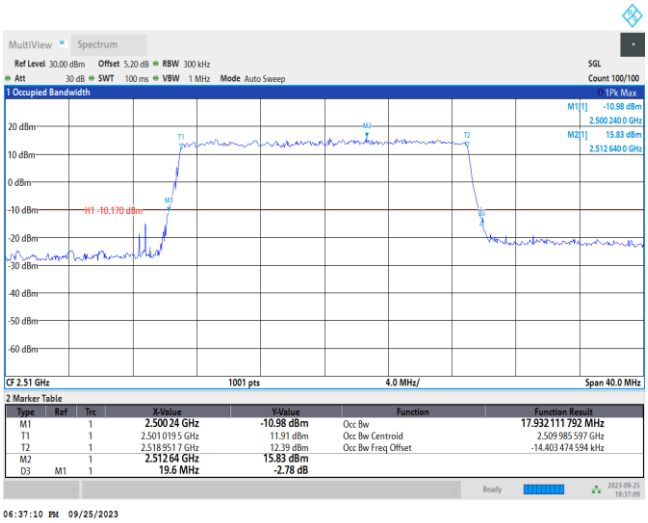
Band7-20MHz-QPSK-20850-100RB#0



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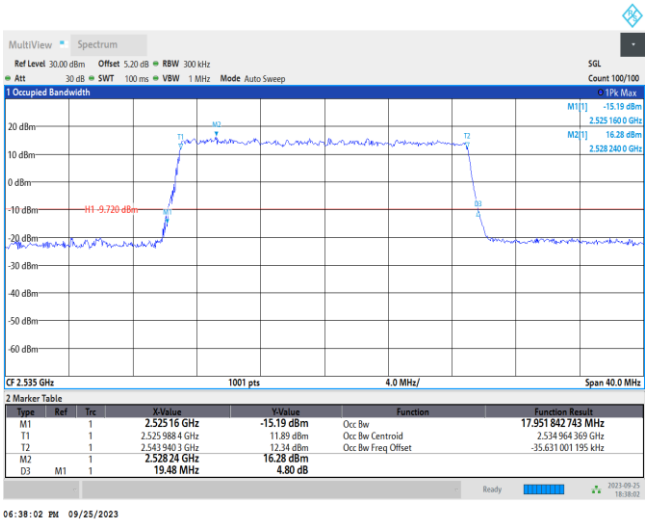

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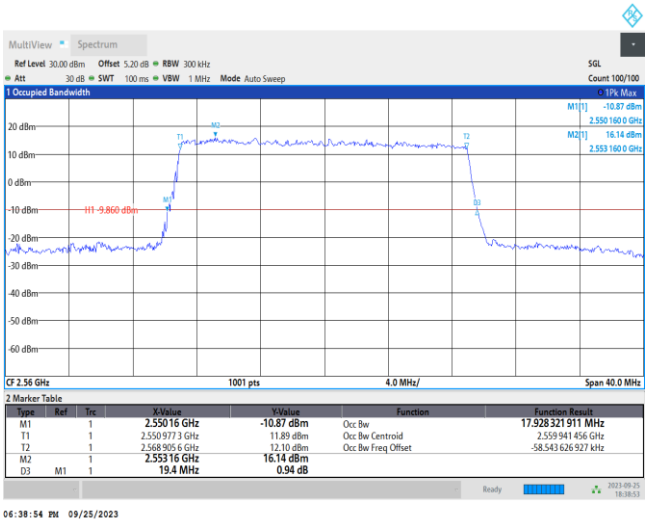
Band7-20MHz-QPSK-21350-100RB#0



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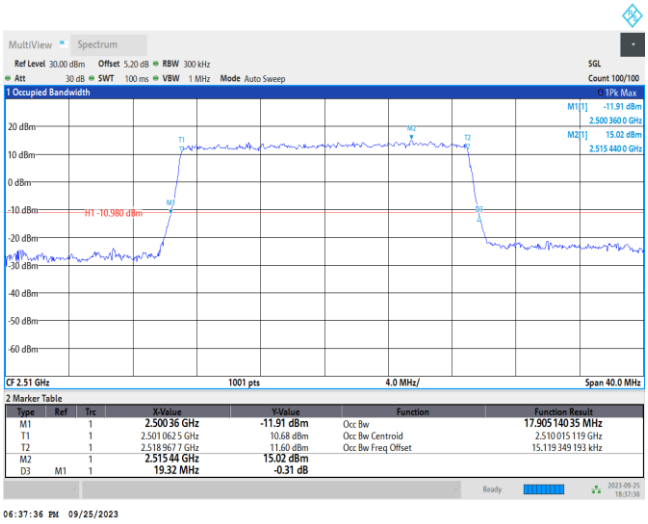

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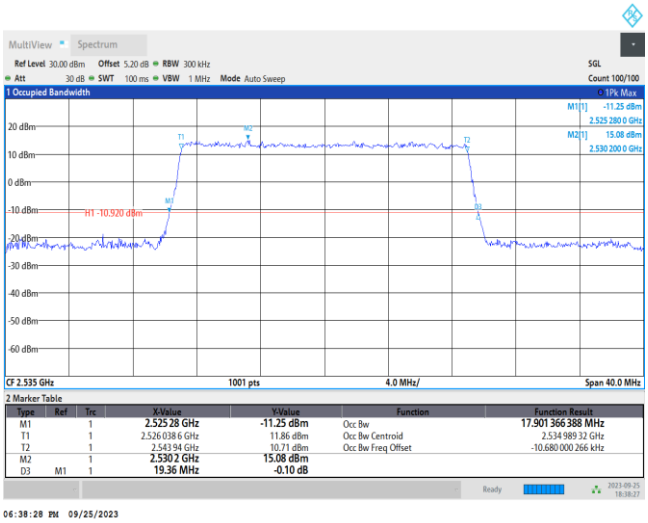

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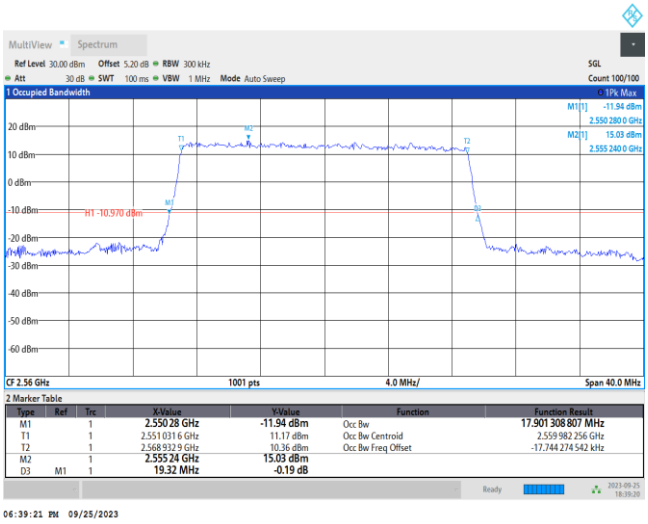

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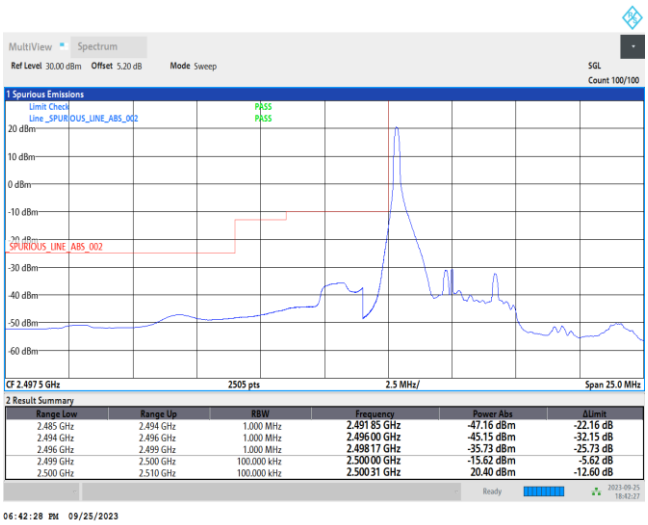
Band Edge

Test Graphs

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



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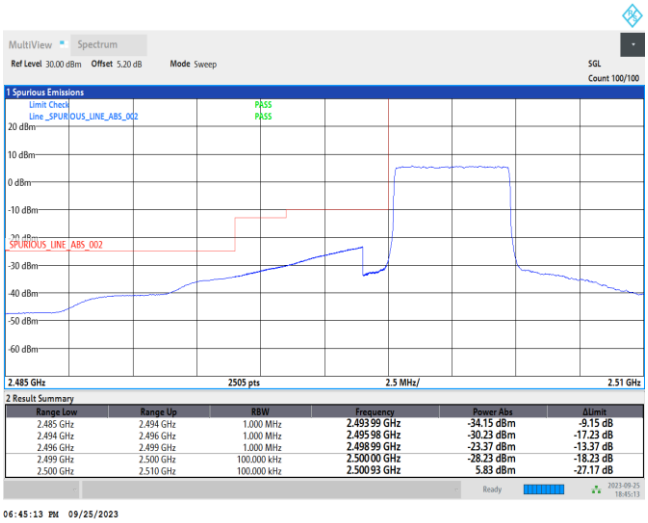

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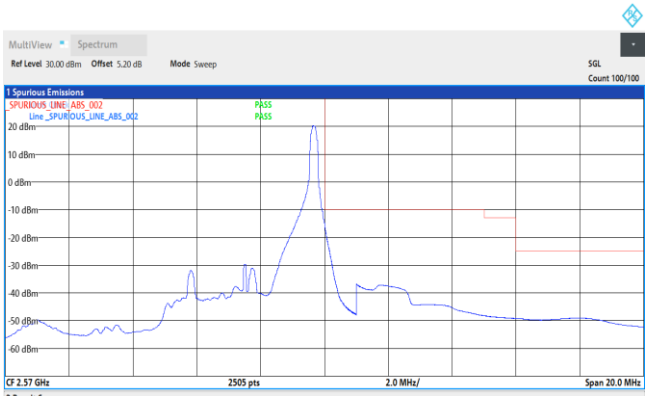
Band7-5MHz-QPSK-21425-1RB#24



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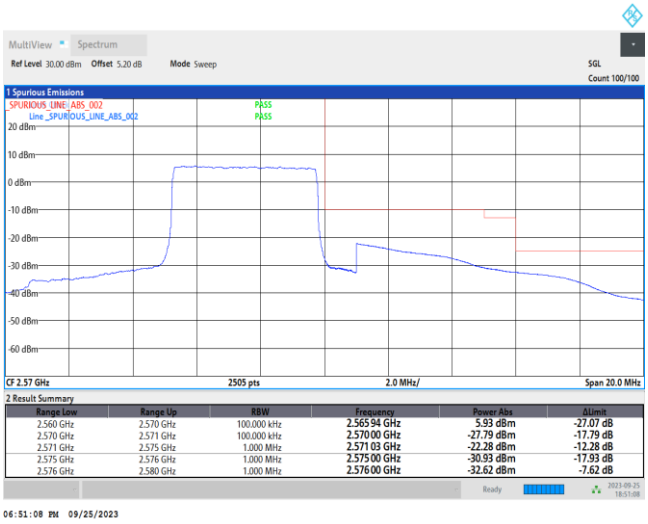

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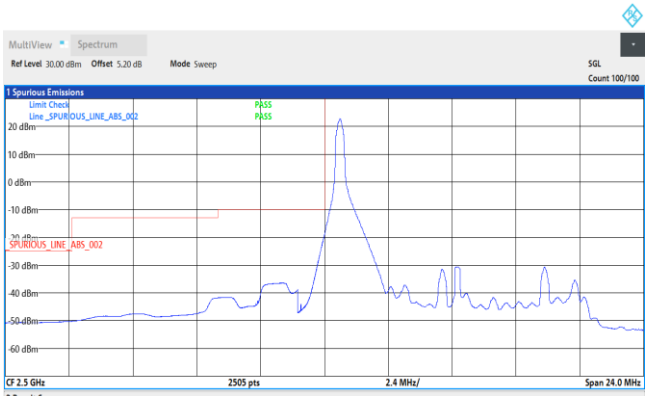
Band7-10MHz-QPSK-20800-1RB#0



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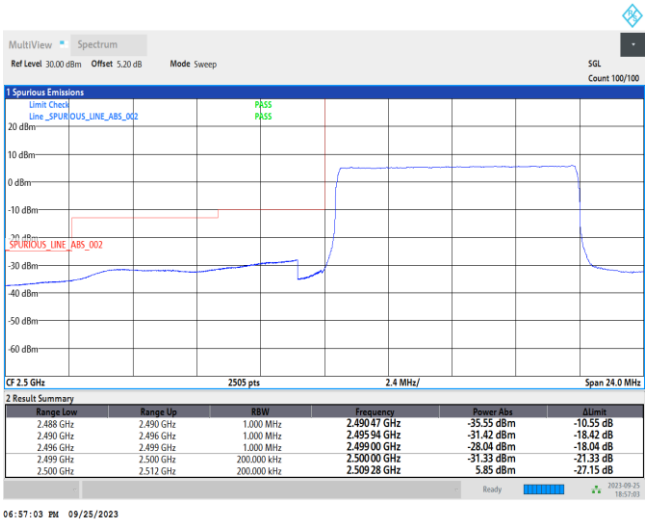

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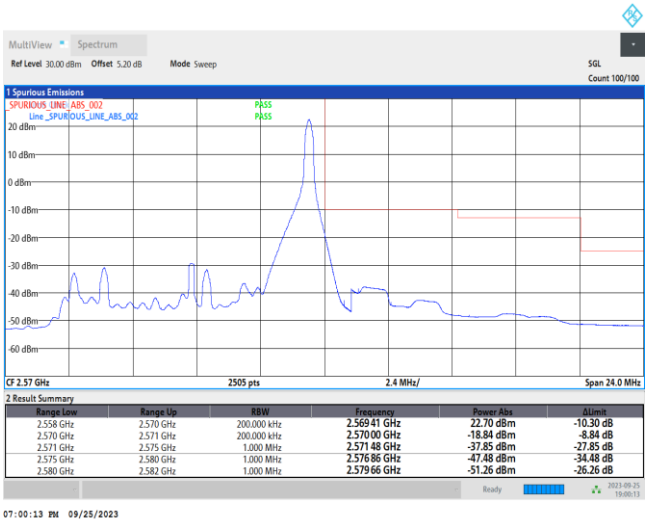
Band7-10MHz-QPSK-21400-1RB#49



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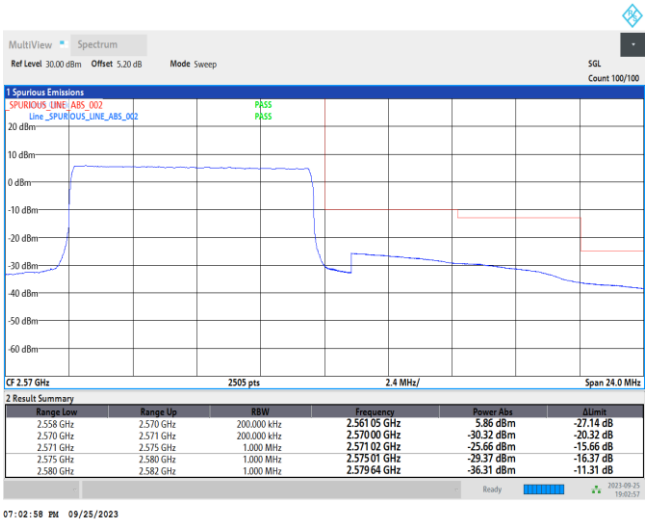

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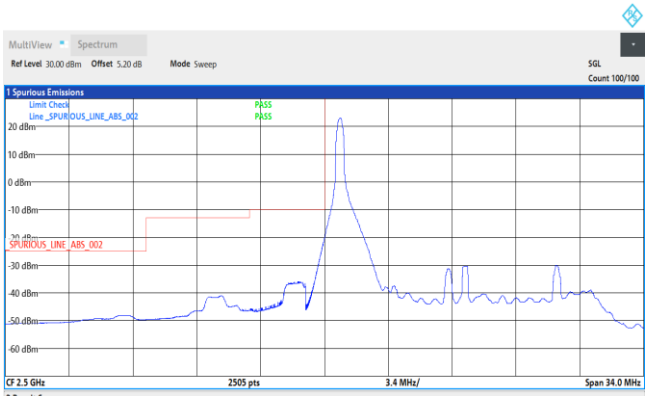
Band7-15MHz-QPSK-20825-1RB#0



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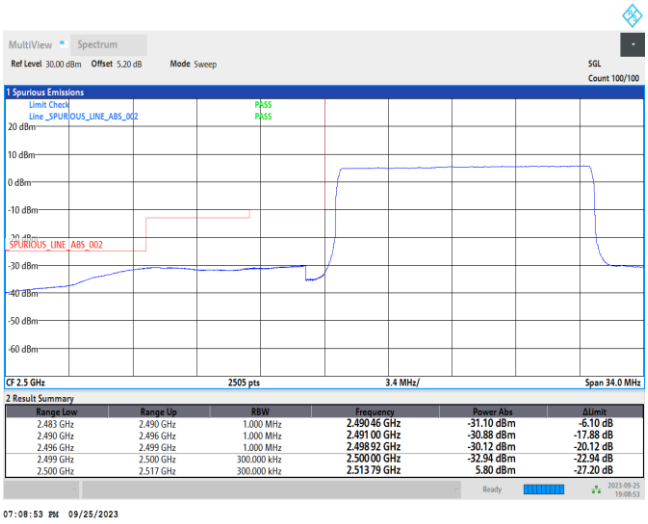

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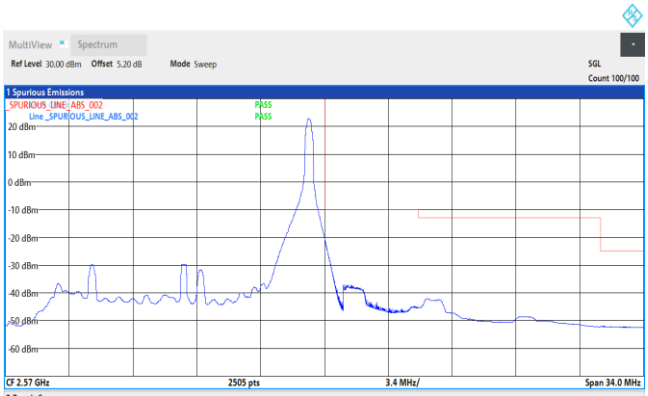
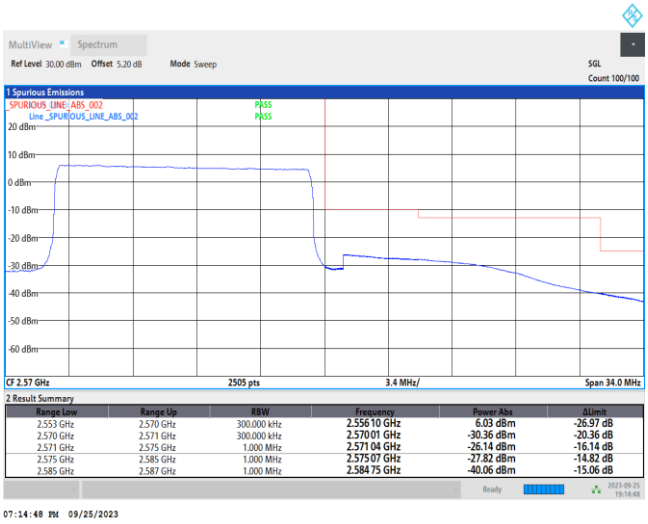
Band7-15MHz-QPSK-21375-1RB#74



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



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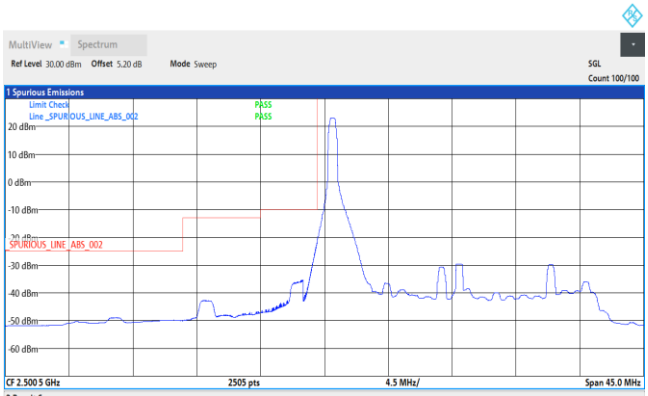
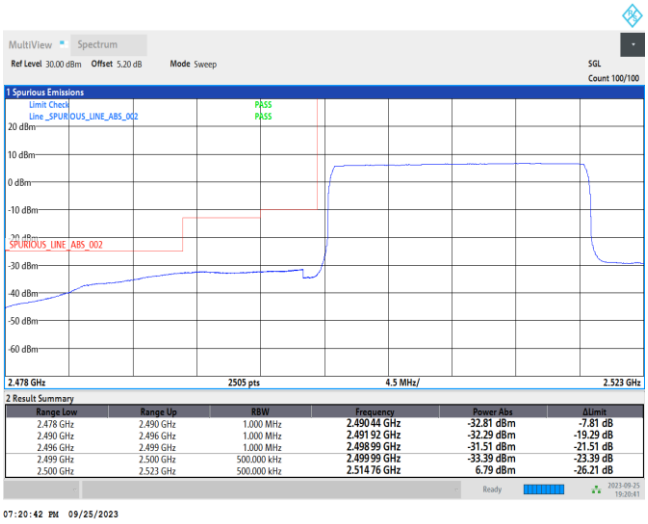
Band7-20MHz-QPSK-20850-1RB#0



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



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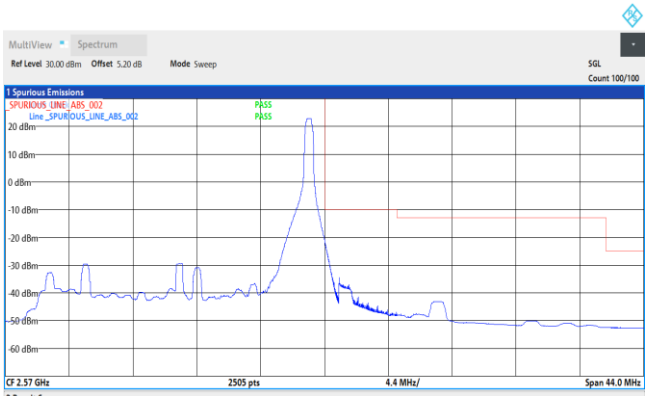
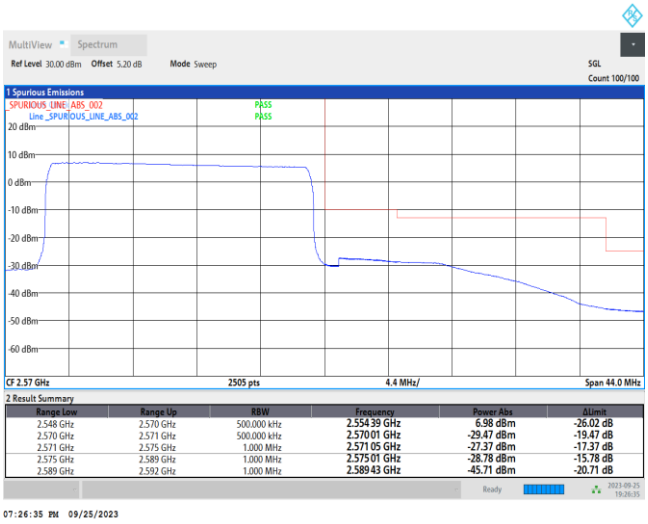
Band7-20MHz-QPSK-21350-1RB#99



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



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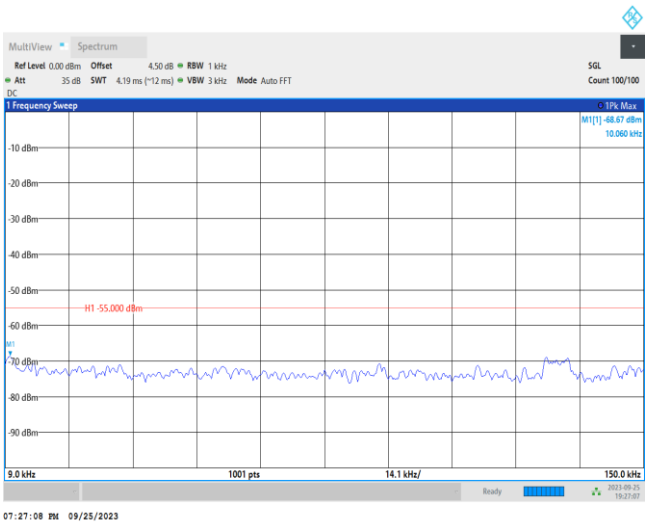
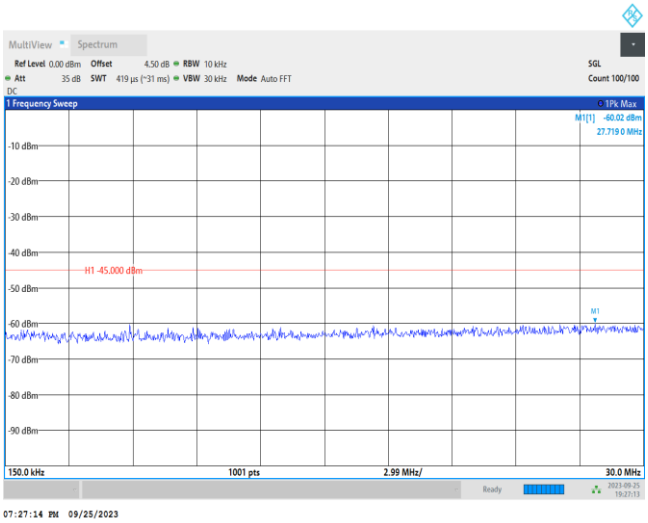
Conducted Spurious Emission

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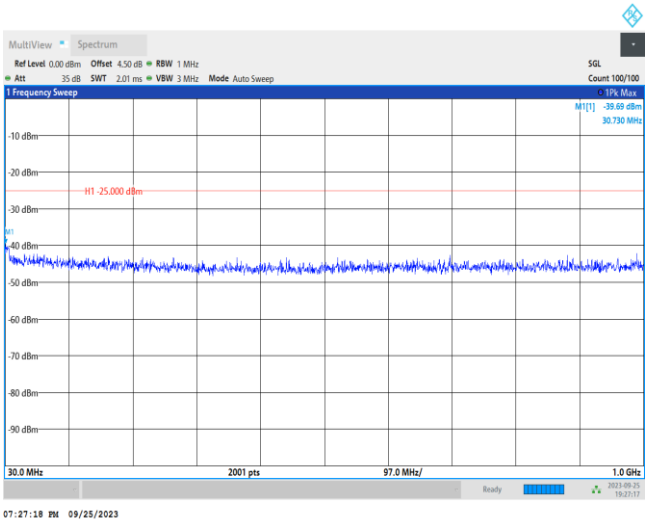
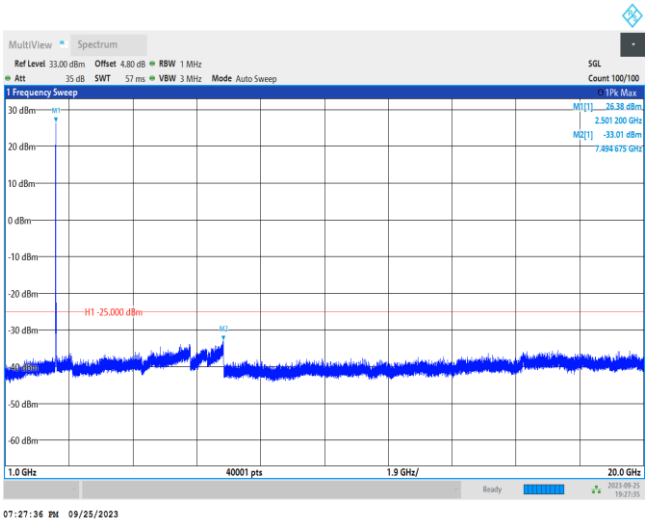
Band7-20MHz-QPSK-20850-1RB#0-Range3:30~1000MHz



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



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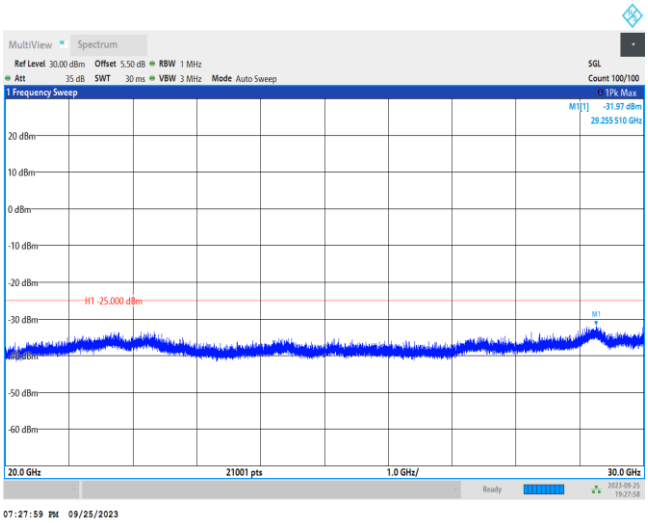
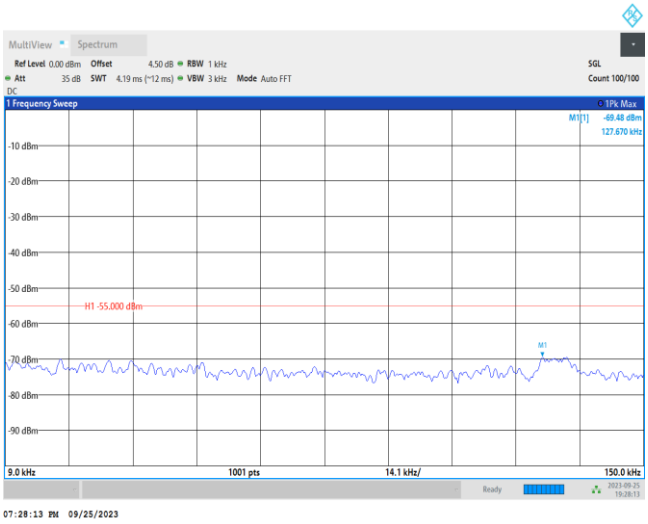
Band7-20MHz-QPSK-20850-1RB#0-Range5:20000~30000MHz



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



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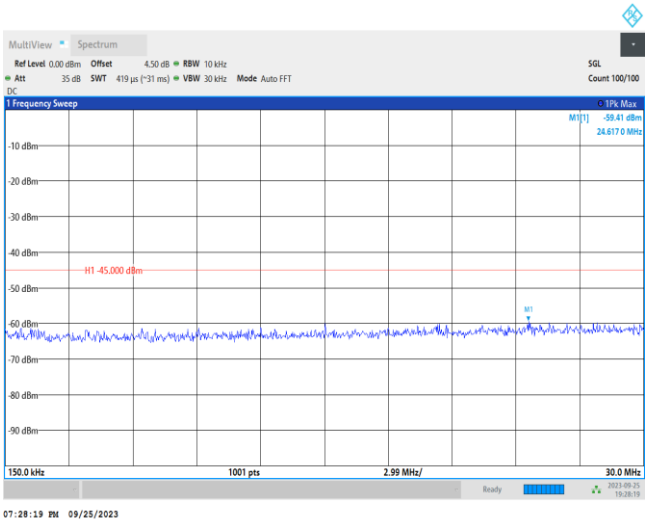
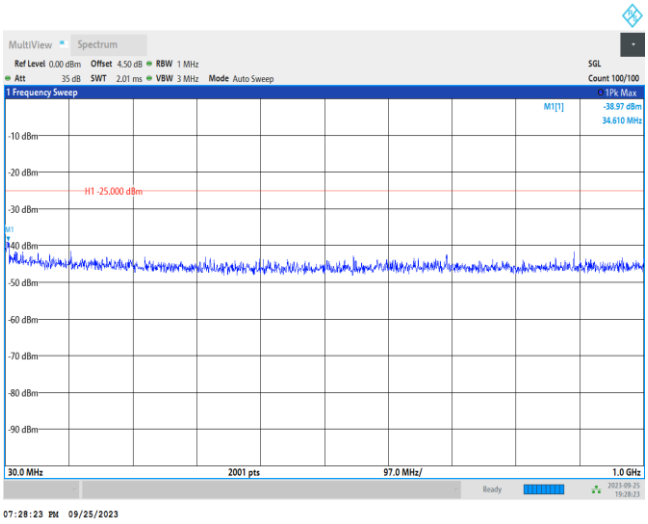
Band7-20MHz-QPSK-21100-1RB#0-Range2:0.15~30MHz



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



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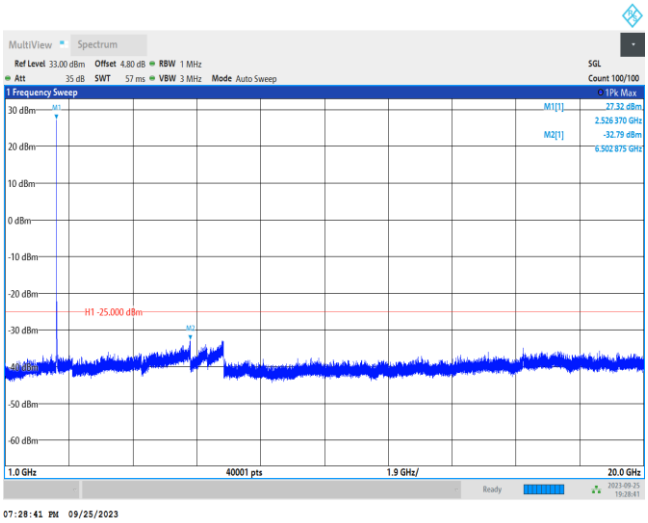
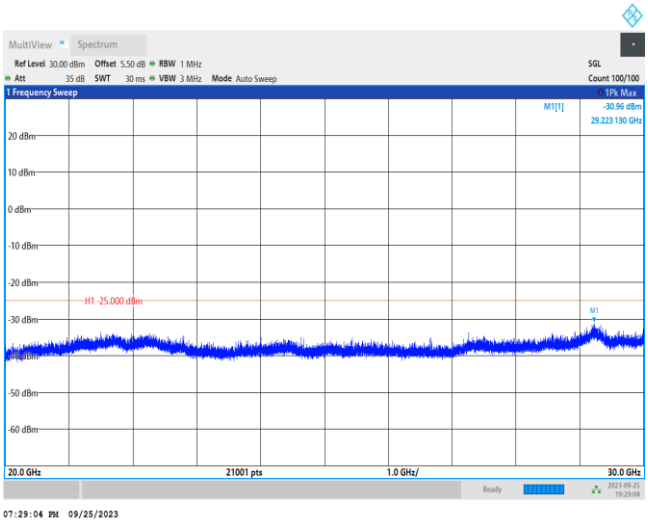
Band7-20MHz-QPSK-21100-1RB#0-Range4:1000~20000MHz



Band7-20MHz-QPSK-21100-1RB#0-Range5:20000~30000MHz



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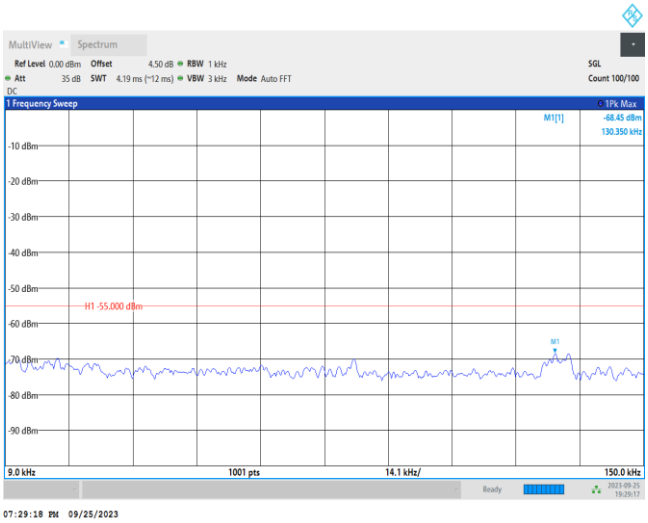
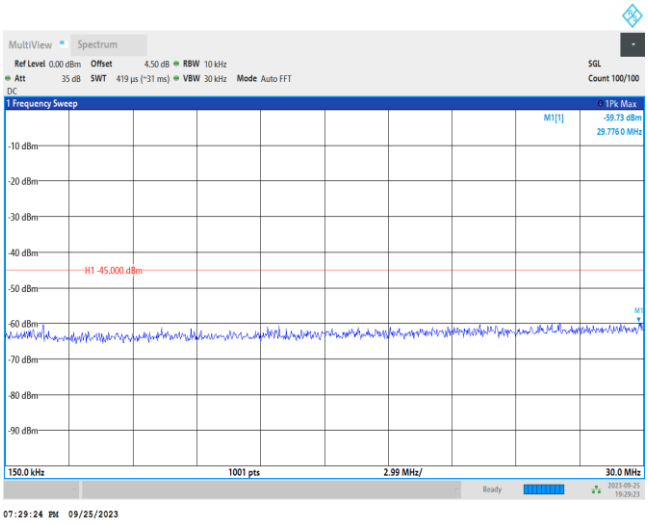
Band7-20MHz-QPSK-21350-1RB#0-Range1:0.009~0.15MHz



Band7-20MHz-QPSK-21350-1RB#0-Range2:0.15~30MHz



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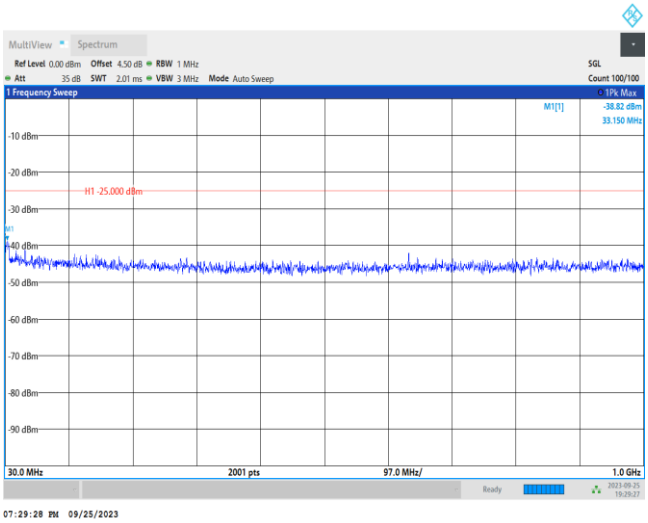
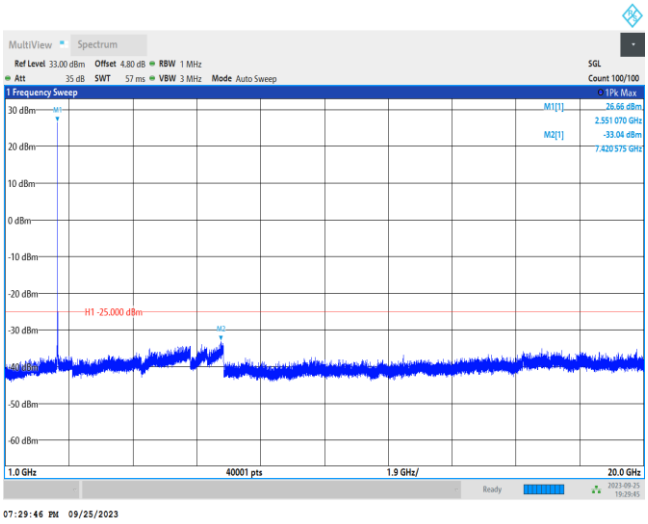
Band7-20MHz-QPSK-21350-1RB#0-Range3:30~1000MHz



Band7-20MHz-QPSK-21350-1RB#0-Range4:1000~20000MHz



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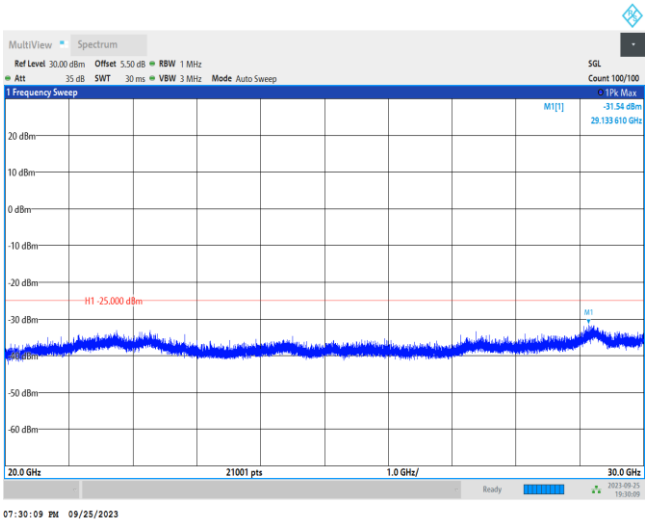
Band7-20MHz-QPSK-21350-1RB#0-Range5:20000~30000MHz


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Field Strength of Spurious Radiation

Test Band = LTE_7
Test Channel = LCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2966.5	37.34	-17.22	28.40	-46.74	-25.00	21.74	Horizontal
2	3685.5	48.78	-44.49	29.30	-61.67	-25.00	36.67	Horizontal
3	5524.5	50.67	-41.75	32.30	-54.04	-25.00	29.04	Horizontal
4	7907.5	43.99	-37.46	36.49	-52.24	-25.00	27.24	Horizontal
5	10946	42.95	-37.22	40.15	-49.38	-25.00	24.38	Horizontal
6	17984.5	41.46	-43.16	47.92	-49.04	-25.00	24.04	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2996	37.36	-17.43	28.58	-46.75	-25.00	21.75	Vertical
2	3940	46.98	-44.19	29.86	-62.61	-25.00	37.61	Vertical
3	5524.5	49.78	-41.75	32.30	-54.93	-25.00	29.93	Vertical
4	9887.5	42.47	-35.06	38.50	-49.35	-25.00	24.35	Vertical
5	13576	42.83	-37.88	40.05	-50.26	-25.00	25.26	Vertical
6	17994	41.06	-43.09	48.09	-49.20	-25.00	24.20	Vertical

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Test Band = LTE_7
Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2998	37.58	-17.44	28.59	-46.53	-25.00	21.53	Horizontal
2	3815	48.13	-44.82	29.77	-62.18	-25.00	37.18	Horizontal
3	5524.5	49.49	-41.75	32.30	-55.22	-25.00	30.22	Horizontal
4	7411	43.76	-38.28	36.72	-53.06	-25.00	28.06	Horizontal
5	9909	42.23	-35.20	38.61	-49.62	-25.00	24.62	Horizontal
6	17996	41.14	-43.07	48.13	-49.06	-25.00	24.06	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2999	37.33	-17.44	28.59	-46.78	-25.00	21.78	Vertical
2	3922	47.49	-44.19	29.79	-62.17	-25.00	37.17	Vertical
3	5524.5	49.23	-41.75	32.30	-55.48	-25.00	30.48	Vertical
4	8484.5	43.33	-36.54	36.47	-52.00	-25.00	27.00	Vertical
5	11032.5	42.59	-37.18	40.13	-49.72	-25.00	24.72	Vertical
6	17964.5	42.10	-43.32	47.56	-48.92	-25.00	23.92	Vertical

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Test Band = LTE_7
Test Channel = HCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2972	37.18	-17.15	28.43	-46.80	-25.00	21.80	Horizontal
2	3941	46.98	-44.19	29.86	-62.61	-25.00	37.61	Horizontal
3	5524.5	50.07	-41.75	32.30	-54.64	-25.00	29.64	Horizontal
4	8012.5	43.49	-37.28	36.43	-52.62	-25.00	27.62	Horizontal
5	9903.5	42.21	-35.05	38.60	-49.50	-25.00	24.50	Horizontal
6	16597.5	41.87	-35.35	39.50	-49.24	-25.00	24.24	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3000	37.53	-17.44	28.60	-46.57	-25.00	21.57	Vertical
2	4397	46.93	-43.40	30.09	-61.64	-25.00	36.64	Vertical
3	5524.5	48.65	-41.75	32.30	-56.06	-25.00	31.06	Vertical
4	9912	42.26	-35.28	38.61	-49.67	-25.00	24.67	Vertical
5	13568.5	42.81	-37.89	40.04	-50.30	-25.00	25.30	Vertical
6	17986.5	41.48	-43.15	47.96	-48.97	-25.00	23.97	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 (℃)	Deviation (Hz)	Deviation (ppm)	Verdict
Band7	20MHz	QPSK	21100	100RB#0	VL	NT	-14.19	-0.005598	PASS
Band7	20MHz	QPSK	21100	100RB#0	VN	NT	-24.15	-0.009527	PASS
Band7	20MHz	QPSK	21100	100RB#0	VH	NT	-22.96	-0.009057	PASS

Temperature									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Verdict
Band7	20MHz	QPSK	21100	100RB#0	NV	-30	-15.13	-0.005968	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-20	-17.62	-0.006951	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-10	14.02	0.005531	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	0	-13.70	-0.005404	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	10	-19.25	-0.007594	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	20	-16.92	-0.006675	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	30	-20.37	-0.008036	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	40	-13.38	-0.005278	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	50	-15.44	-0.006091	PASS

---End of Attachment---

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