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Appendix B.6

LTE Band 7



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South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000

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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
Band7	5MHz	QPSK	20775	1RB#0	22.44	24.74	33.00	PASS
Band7	5MHz	QPSK	20775	1RB#12	22.53	24.83	33.00	PASS
Band7	5MHz	QPSK	20775	1RB#24	22.73	25.03	33.00	PASS
Band7	5MHz	QPSK	20775	25RB#0	21.18	23.48	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#0	22.44	24.74	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#12	22.70	25.00	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#24	22.43	24.73	33.00	PASS
Band7	5MHz	QPSK	21100	25RB#0	21.48	23.78	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#0	22.97	25.27	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#12	22.92	25.22	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#24	22.53	24.83	33.00	PASS
Band7	5MHz	QPSK	21425	25RB#0	21.48	23.78	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#0	21.43	23.73	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#12	21.49	23.79	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#24	21.41	23.71	33.00	PASS
Band7	5MHz	16QAM	20775	25RB#0	20.49	22.79	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#0	21.91	24.21	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#12	21.64	23.94	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#24	21.92	24.22	33.00	PASS
Band7	5MHz	16QAM	21100	25RB#0	20.54	22.84	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#0	21.98	24.28	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#12	21.93	24.23	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#24	21.85	24.15	33.00	PASS
Band7	5MHz	16QAM	21425	25RB#0	20.63	22.93	33.00	PASS
Band7	5MHz	64QAM	20775	1RB#0	20.54	22.84	33.00	PASS



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Band7	5MHz	64QAM	20775	1RB#12	20.74	23.04	33.00	PASS
Band7	5MHz	64QAM	20775	1RB#24	20.66	22.96	33.00	PASS
Band7	5MHz	64QAM	20775	25RB#0	19.49	21.79	33.00	PASS
Band7	5MHz	64QAM	21100	1RB#0	20.57	22.87	33.00	PASS
Band7	5MHz	64QAM	21100	1RB#12	20.43	22.73	33.00	PASS
Band7	5MHz	64QAM	21100	1RB#24	20.46	22.76	33.00	PASS
Band7	5MHz	64QAM	21100	25RB#0	19.64	21.94	33.00	PASS
Band7	5MHz	64QAM	21425	1RB#0	20.60	22.90	33.00	PASS
Band7	5MHz	64QAM	21425	1RB#12	20.69	22.99	33.00	PASS
Band7	5MHz	64QAM	21425	1RB#24	20.72	23.02	33.00	PASS
Band7	5MHz	64QAM	21425	25RB#0	19.68	21.98	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#0	22.21	24.51	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#24	22.49	24.79	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#49	22.49	24.79	33.00	PASS
Band7	10MHz	QPSK	20800	50RB#0	21.41	23.71	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#0	22.33	24.63	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#24	22.48	24.78	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#49	22.40	24.70	33.00	PASS
Band7	10MHz	QPSK	21100	50RB#0	21.41	23.71	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#0	22.45	24.75	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#24	22.83	25.13	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#49	22.67	24.97	33.00	PASS
Band7	10MHz	QPSK	21400	50RB#0	21.42	23.72	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#0	21.76	24.06	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#24	21.50	23.80	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#49	21.59	23.89	33.00	PASS
Band7	10MHz	16QAM	20800	50RB#0	20.48	22.78	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#0	21.78	24.08	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#24	21.66	23.96	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#49	21.58	23.88	33.00	PASS
Band7	10MHz	16QAM	21100	50RB#0	20.26	22.56	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#0	21.65	23.95	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#24	21.75	24.05	33.00	PASS



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Band7	10MHz	16QAM	21400	1RB#49	21.71	24.01	33.00	PASS
Band7	10MHz	16QAM	21400	50RB#0	20.60	22.90	33.00	PASS
Band7	10MHz	64QAM	20800	1RB#0	20.46	22.76	33.00	PASS
Band7	10MHz	64QAM	20800	1RB#24	20.74	23.04	33.00	PASS
Band7	10MHz	64QAM	20800	1RB#49	20.50	22.80	33.00	PASS
Band7	10MHz	64QAM	20800	50RB#0	19.51	21.81	33.00	PASS
Band7	10MHz	64QAM	21100	1RB#0	20.72	23.02	33.00	PASS
Band7	10MHz	64QAM	21100	1RB#24	20.74	23.04	33.00	PASS
Band7	10MHz	64QAM	21100	1RB#49	20.69	22.99	33.00	PASS
Band7	10MHz	64QAM	21100	50RB#0	19.51	21.81	33.00	PASS
Band7	10MHz	64QAM	21400	1RB#0	20.50	22.80	33.00	PASS
Band7	10MHz	64QAM	21400	1RB#24	20.76	23.06	33.00	PASS
Band7	10MHz	64QAM	21400	1RB#49	20.59	22.89	33.00	PASS
Band7	10MHz	64QAM	21400	50RB#0	19.47	21.77	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#0	22.26	24.56	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#38	22.34	24.64	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#74	22.64	24.94	33.00	PASS
Band7	15MHz	QPSK	20825	75RB#0	21.67	23.97	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#0	22.51	24.81	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#38	22.35	24.65	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#74	22.33	24.63	33.00	PASS
Band7	15MHz	QPSK	21100	75RB#0	21.36	23.66	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#0	22.39	24.69	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#38	22.86	25.16	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#74	22.64	24.94	33.00	PASS
Band7	15MHz	QPSK	21375	75RB#0	21.72	24.02	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#0	21.79	24.09	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#38	21.93	24.23	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#74	21.82	24.12	33.00	PASS
Band7	15MHz	16QAM	20825	75RB#0	20.36	22.66	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#0	21.51	23.81	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#38	21.67	23.97	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#74	21.63	23.93	33.00	PASS



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Band7	15MHz	16QAM	21100	75RB#0	20.63	22.93	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#0	21.80	24.10	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#38	21.75	24.05	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#74	21.46	23.76	33.00	PASS
Band7	15MHz	16QAM	21375	75RB#0	20.61	22.91	33.00	PASS
Band7	15MHz	64QAM	20825	1RB#0	20.56	22.86	33.00	PASS
Band7	15MHz	64QAM	20825	1RB#38	20.82	23.12	33.00	PASS
Band7	15MHz	64QAM	20825	1RB#74	20.67	22.97	33.00	PASS
Band7	15MHz	64QAM	20825	75RB#0	19.36	21.66	33.00	PASS
Band7	15MHz	64QAM	21100	1RB#0	20.53	22.83	33.00	PASS
Band7	15MHz	64QAM	21100	1RB#38	20.58	22.88	33.00	PASS
Band7	15MHz	64QAM	21100	1RB#74	20.65	22.95	33.00	PASS
Band7	15MHz	64QAM	21100	75RB#0	19.43	21.73	33.00	PASS
Band7	15MHz	64QAM	21375	1RB#0	20.68	22.98	33.00	PASS
Band7	15MHz	64QAM	21375	1RB#38	20.91	23.21	33.00	PASS
Band7	15MHz	64QAM	21375	1RB#74	20.66	22.96	33.00	PASS
Band7	15MHz	64QAM	21375	75RB#0	19.57	21.87	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#0	22.24	24.54	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#49	22.85	25.15	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#99	22.41	24.71	33.00	PASS
Band7	20MHz	QPSK	20850	100RB#0	21.47	23.77	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#0	22.35	24.65	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#49	22.77	25.07	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#99	22.33	24.63	33.00	PASS
Band7	20MHz	QPSK	21100	100RB#0	21.51	23.81	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#0	22.33	24.63	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#49	22.67	24.97	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#99	22.56	24.86	33.00	PASS
Band7	20MHz	QPSK	21350	100RB#0	21.74	24.04	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#0	21.40	23.70	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#49	21.95	24.25	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#99	21.82	24.12	33.00	PASS
Band7	20MHz	16QAM	20850	100RB#0	20.37	22.67	33.00	PASS



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Band7	20MHz	16QAM	21100	1RB#49	21.72	24.02	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#99	21.34	23.64	33.00	PASS
Band7	20MHz	16QAM	21100	100RB#0	20.59	22.89	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#0	21.77	24.07	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#49	21.72	24.02	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#99	21.78	24.08	33.00	PASS
Band7	20MHz	16QAM	21350	100RB#0	20.36	22.66	33.00	PASS
Band7	20MHz	64QAM	20850	1RB#0	20.21	22.51	33.00	PASS
Band7	20MHz	64QAM	20850	1RB#49	20.81	23.11	33.00	PASS
Band7	20MHz	64QAM	20850	1RB#99	20.43	22.73	33.00	PASS
Band7	20MHz	64QAM	20850	100RB#0	19.27	21.57	33.00	PASS
Band7	20MHz	64QAM	21100	1RB#0	20.42	22.72	33.00	PASS
Band7	20MHz	64QAM	21100	1RB#49	20.69	22.99	33.00	PASS
Band7	20MHz	64QAM	21100	1RB#99	20.39	22.69	33.00	PASS
Band7	20MHz	64QAM	21100	100RB#0	19.50	21.80	33.00	PASS
Band7	20MHz	64QAM	21350	1RB#0	20.71	23.01	33.00	PASS
Band7	20MHz	64QAM	21350	1RB#49	20.80	23.10	33.00	PASS
Band7	20MHz	64QAM	21350	1RB#99	20.41	22.71	33.00	PASS
Band7	20MHz	64QAM	21350	100RB#0	19.31	21.61	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	4.92	13	PASS
Band7	20MHz	QPSK	21100	100RB#0	5.10	13	PASS
Band7	20MHz	QPSK	21350	100RB#0	4.92	13	PASS
Band7	20MHz	16QAM	20850	100RB#0	5.68	13	PASS
Band7	20MHz	16QAM	21100	100RB#0	5.90	13	PASS
Band7	20MHz	16QAM	21350	100RB#0	5.78	13	PASS
Band7	20MHz	64QAM	20850	100RB#0	6.14	13	PASS
Band7	20MHz	64QAM	21100	100RB#0	6.30	13	PASS
Band7	20MHz	64QAM	21350	100RB#0	6.26	13	PASS



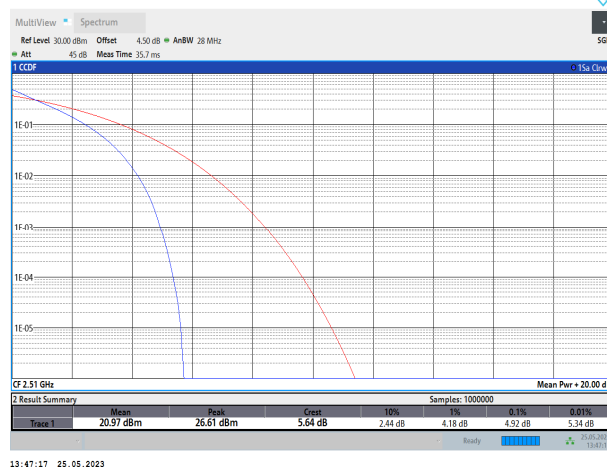
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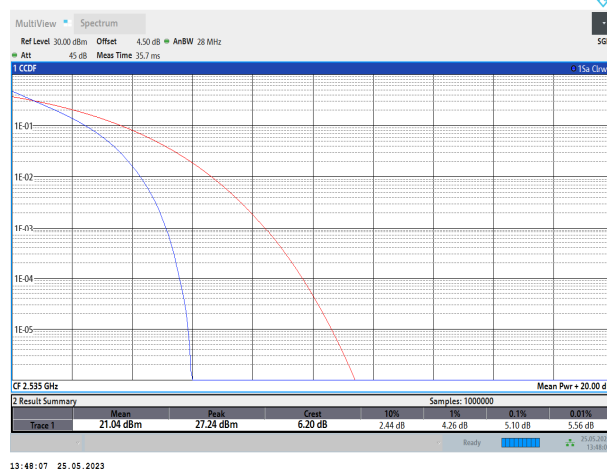
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Test Graphs

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



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



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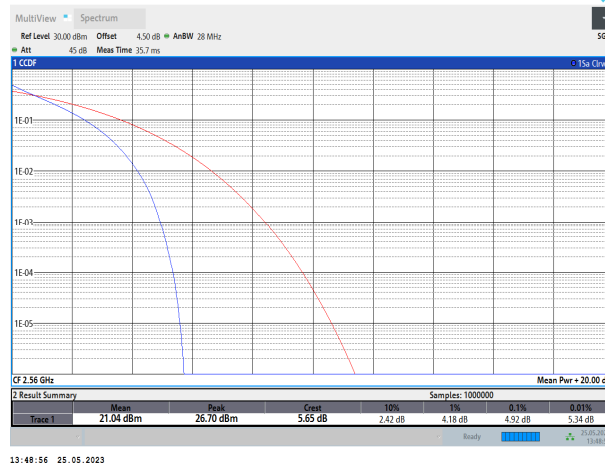
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Report No.: SEWM2306000194RG01

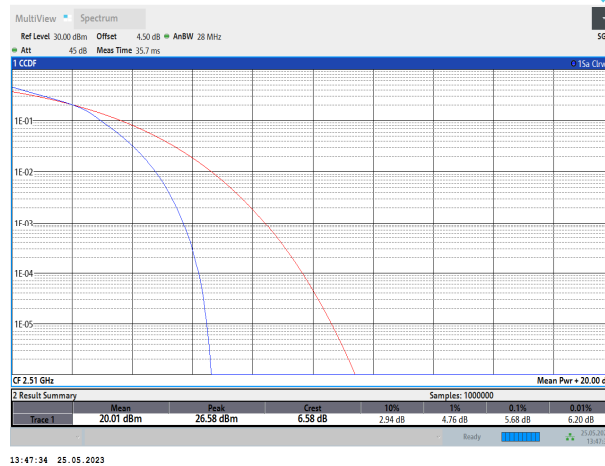
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Band7-20MHz-QPSK-21350-100RB#0



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

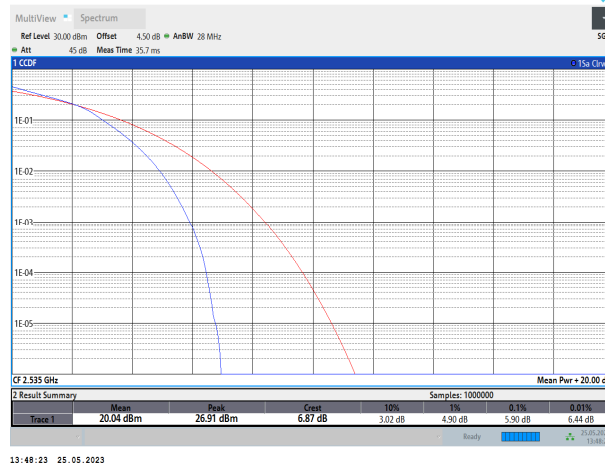


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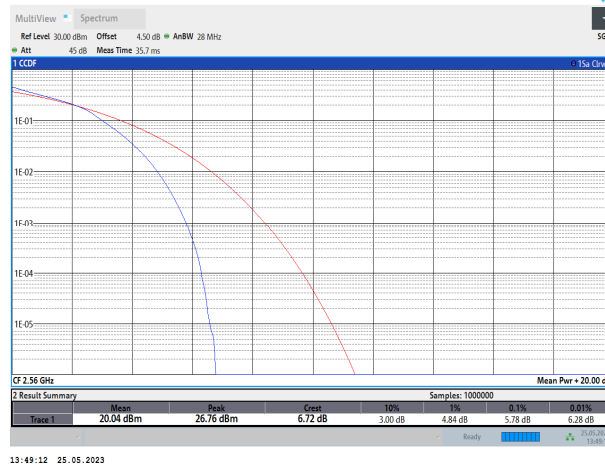
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Band7-20MHz-16QAM-21100-100RB#0



Band7-20MHz-16QAM-21350-100RB#0

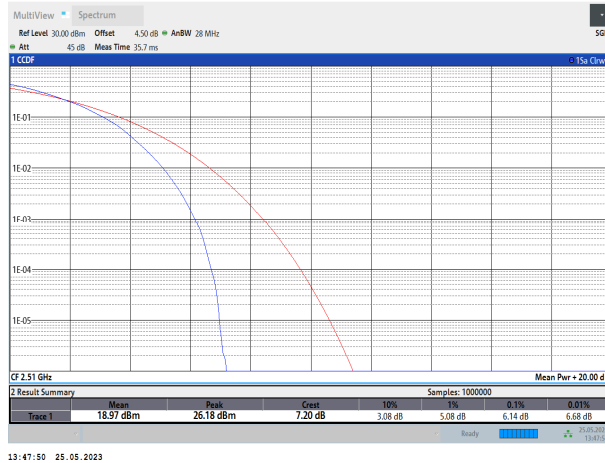


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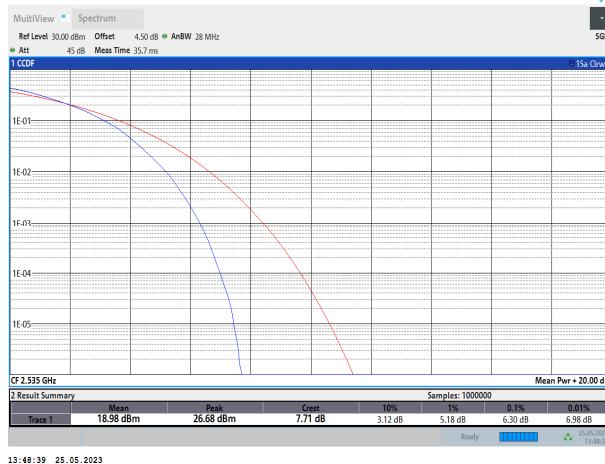
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Band7-20MHz-64QAM-20850-100RB#0



Band7-20MHz-64QAM-21100-100RB#0



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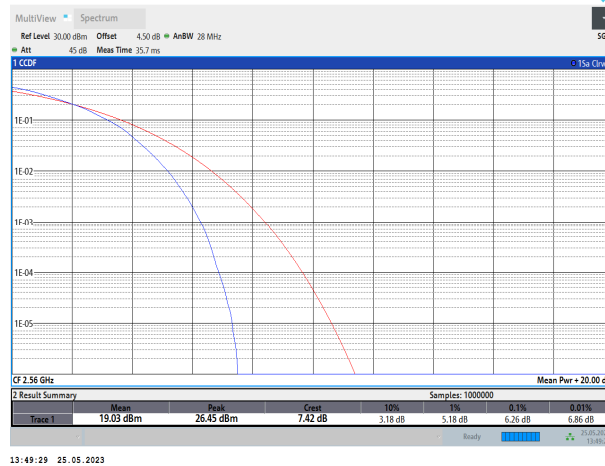


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Band7-20MHz-64QAM-21350-100RB#0



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Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band7	20MHz	QPSK	21100	100RB#0	PASS	PASS
Band7	20MHz	16QAM	21100	100RB#0	PASS	PASS
Band7	20MHz	64QAM	21100	100RB#0	PASS	PASS

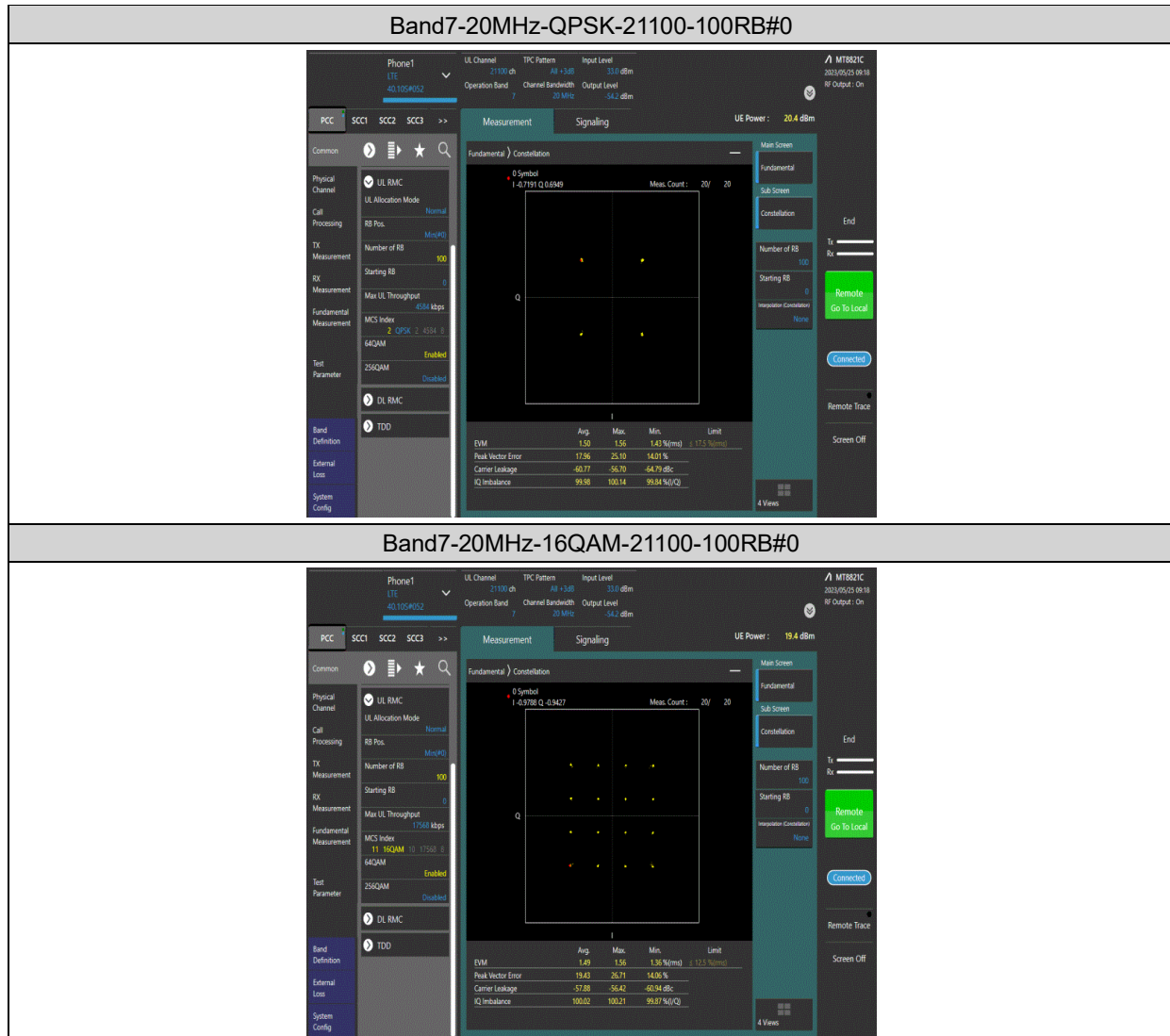


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Test Graphs



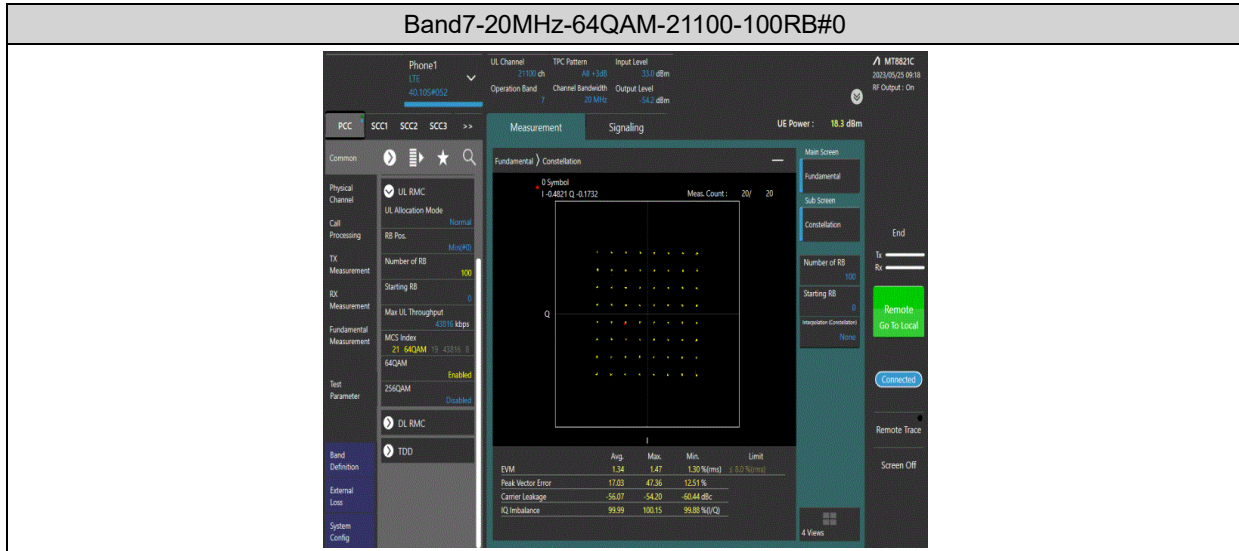
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Band7-20MHz-64QAM-21100-100RB#0



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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	4.464	4.75	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.464	4.79	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.466	4.76	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.464	4.79	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.464	4.81	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.470	4.82	PASS
Band7	5MHz	64QAM	20775	25RB#0	4.466	4.82	PASS
Band7	5MHz	64QAM	21100	25RB#0	4.469	4.78	PASS
Band7	5MHz	64QAM	21425	25RB#0	4.473	4.83	PASS
Band7	10MHz	QPSK	20800	50RB#0	8.974	9.66	PASS
Band7	10MHz	QPSK	21100	50RB#0	8.908	9.64	PASS
Band7	10MHz	QPSK	21400	50RB#0	8.988	9.54	PASS
Band7	10MHz	16QAM	20800	50RB#0	8.913	9.60	PASS
Band7	10MHz	16QAM	21100	50RB#0	8.932	9.58	PASS
Band7	10MHz	16QAM	21400	50RB#0	8.946	9.50	PASS
Band7	10MHz	64QAM	20800	50RB#0	8.941	9.58	PASS
Band7	10MHz	64QAM	21100	50RB#0	8.938	9.48	PASS
Band7	10MHz	64QAM	21400	50RB#0	8.931	9.58	PASS
Band7	15MHz	QPSK	20825	75RB#0	13.465	14.58	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.506	14.52	PASS
Band7	15MHz	QPSK	21375	75RB#0	13.517	14.58	PASS
Band7	15MHz	16QAM	20825	75RB#0	13.477	14.55	PASS
Band7	15MHz	16QAM	21100	75RB#0	13.460	14.46	PASS
Band7	15MHz	16QAM	21375	75RB#0	13.442	14.55	PASS
Band7	15MHz	64QAM	20825	75RB#0	13.434	14.52	PASS
Band7	15MHz	64QAM	21100	75RB#0	13.422	14.46	PASS
Band7	15MHz	64QAM	21375	75RB#0	13.469	14.52	PASS
Band7	20MHz	QPSK	20850	100RB#0	17.883	19.36	PASS
Band7	20MHz	QPSK	21100	100RB#0	17.872	19.24	PASS



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Band7	20MHz	QPSK	21350	100RB#0	17.907	19.04	PASS
Band7	20MHz	16QAM	20850	100RB#0	17.855	19.00	PASS
Band7	20MHz	16QAM	21100	100RB#0	17.948	19.08	PASS
Band7	20MHz	16QAM	21350	100RB#0	17.895	18.96	PASS
Band7	20MHz	64QAM	20850	100RB#0	17.876	18.96	PASS
Band7	20MHz	64QAM	21100	100RB#0	17.962	19.08	PASS
Band7	20MHz	64QAM	21350	100RB#0	17.860	19.00	PASS



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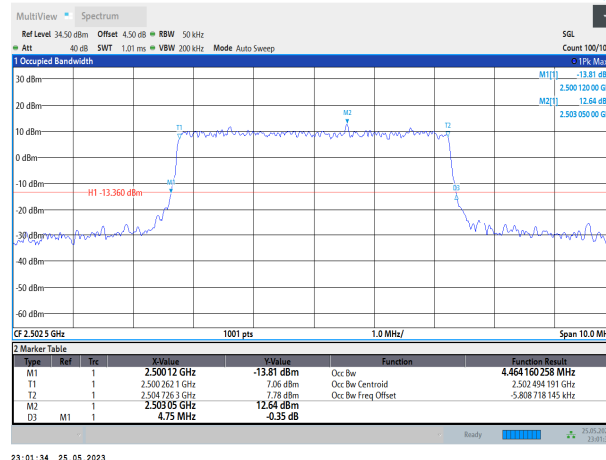
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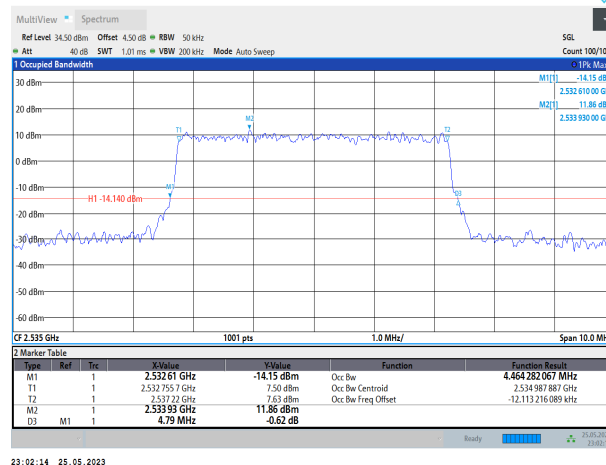
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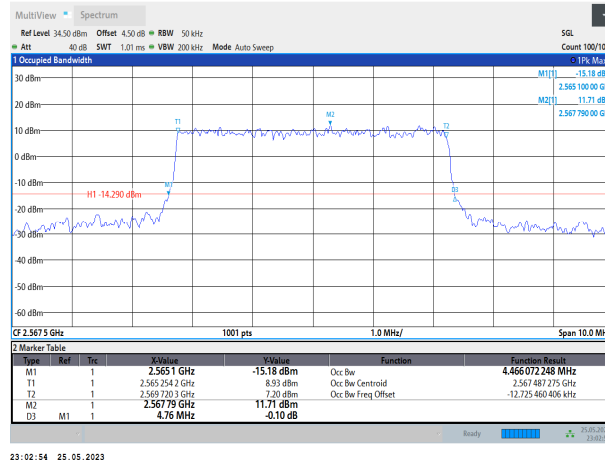
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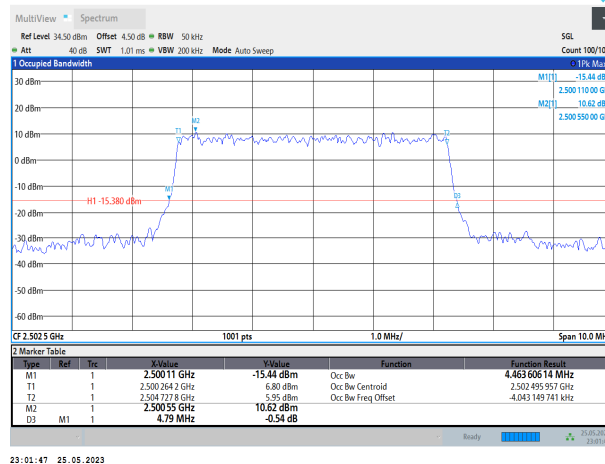
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Band7-5MHz-QPSK-21425-25RB#0



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



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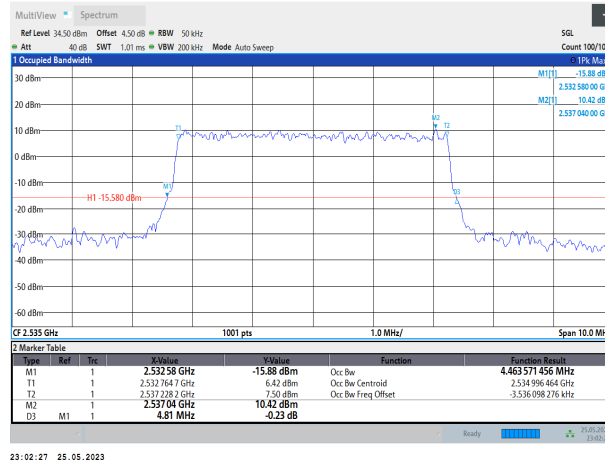
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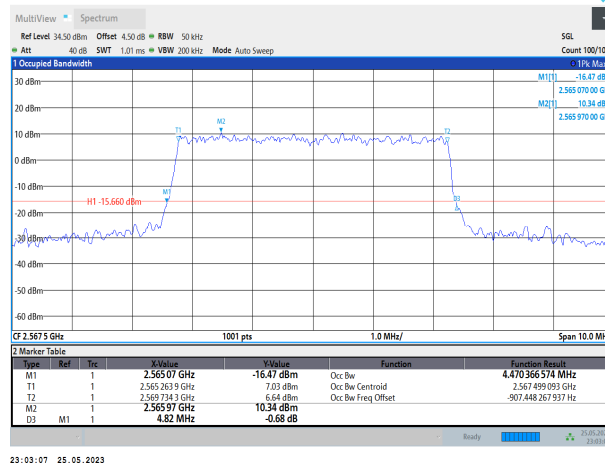
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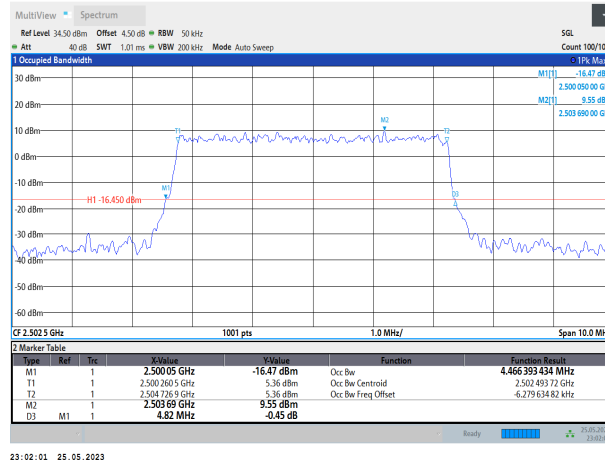


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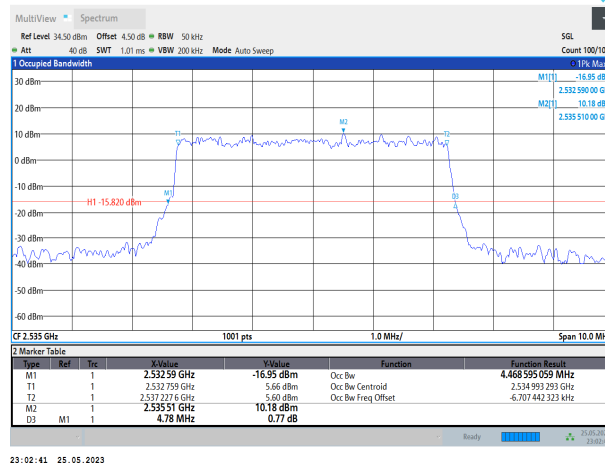
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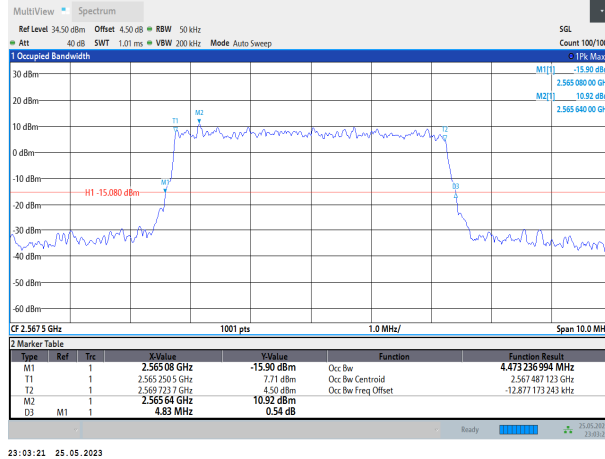


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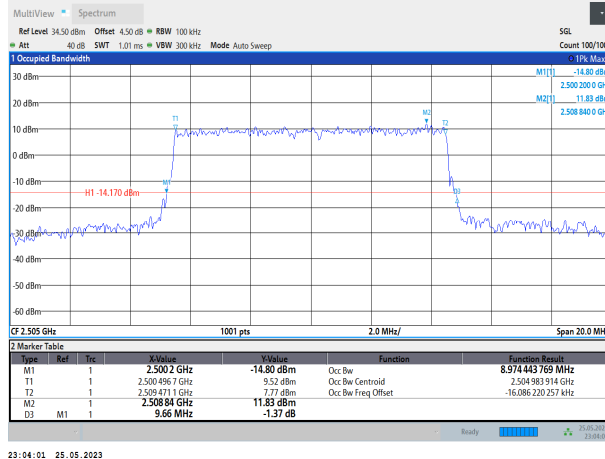
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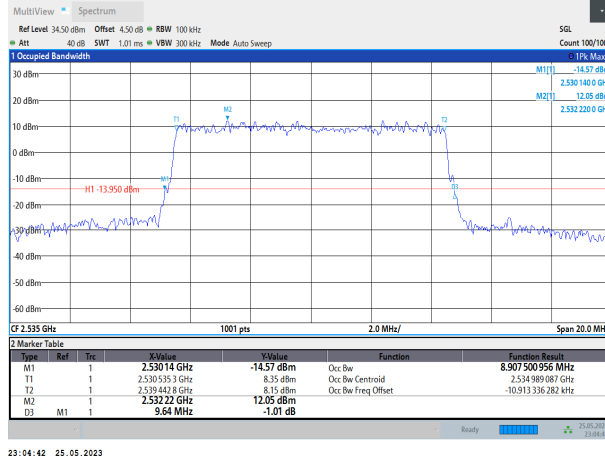
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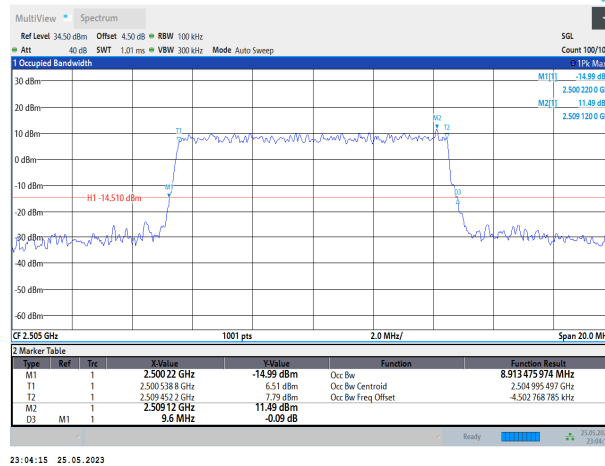
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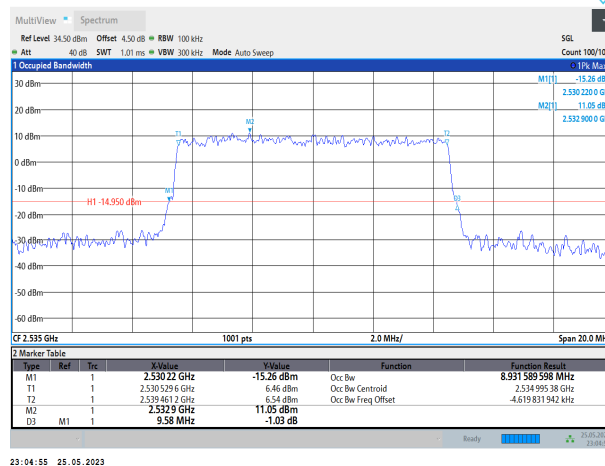
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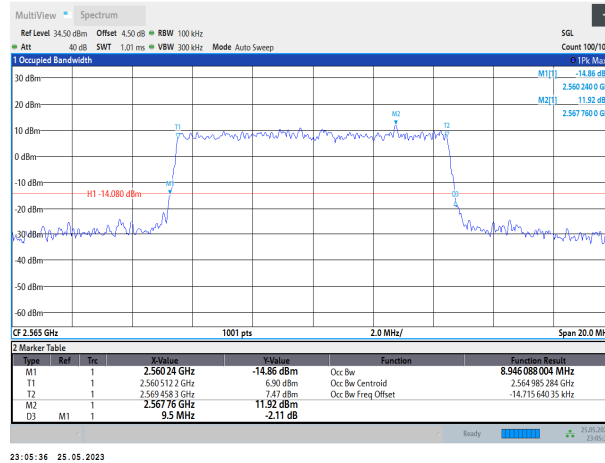
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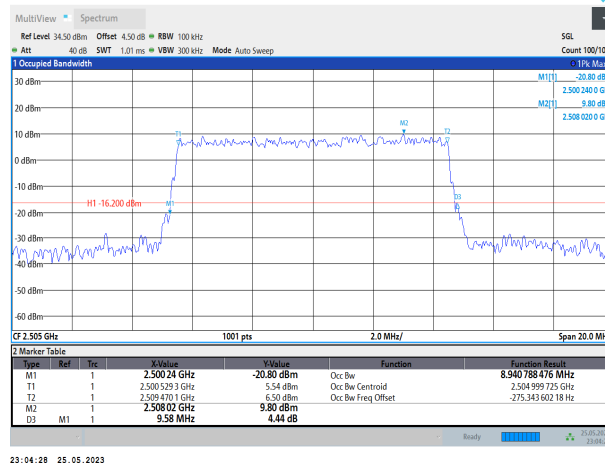
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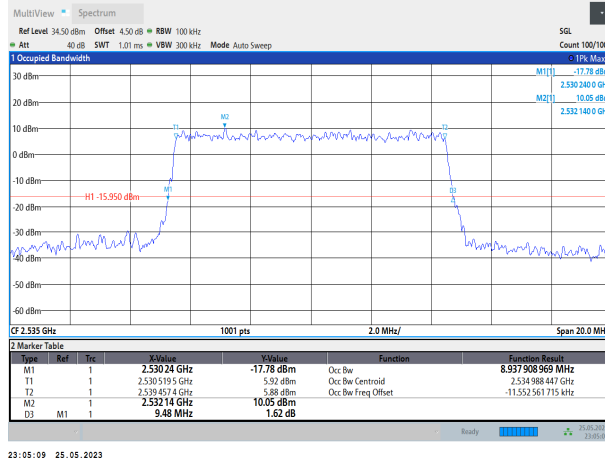


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Band7-15MHz-QPSK-20825-75RB#0



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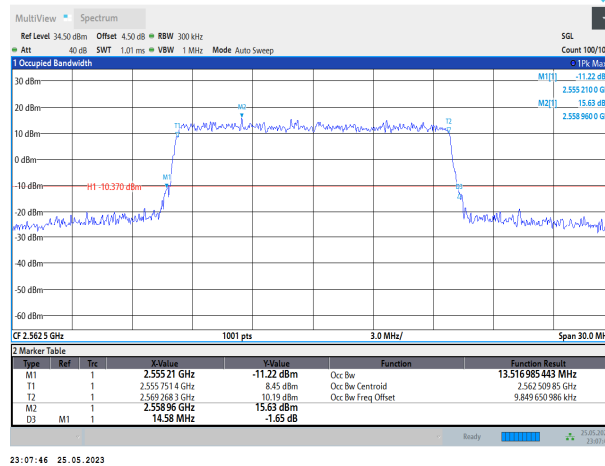
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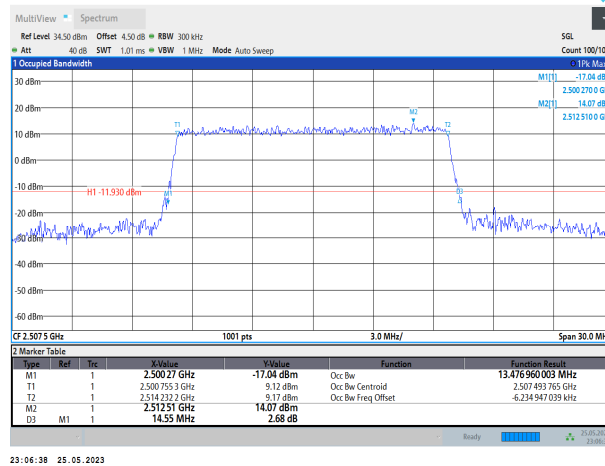
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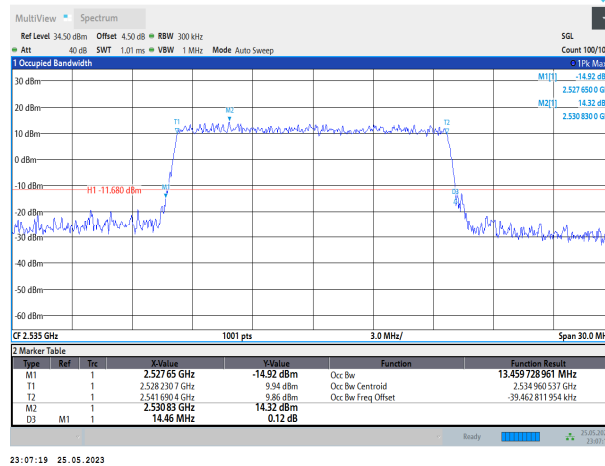
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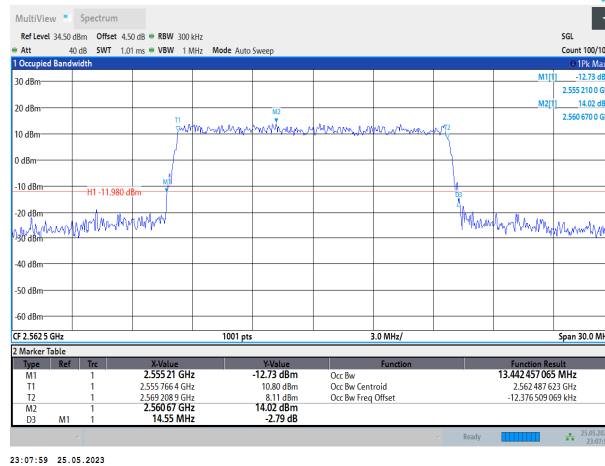
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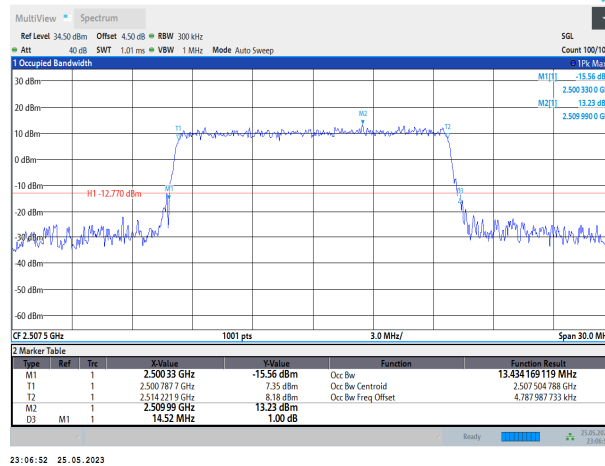
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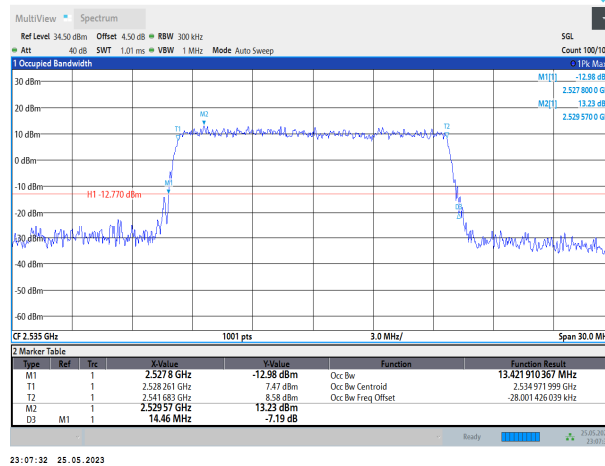
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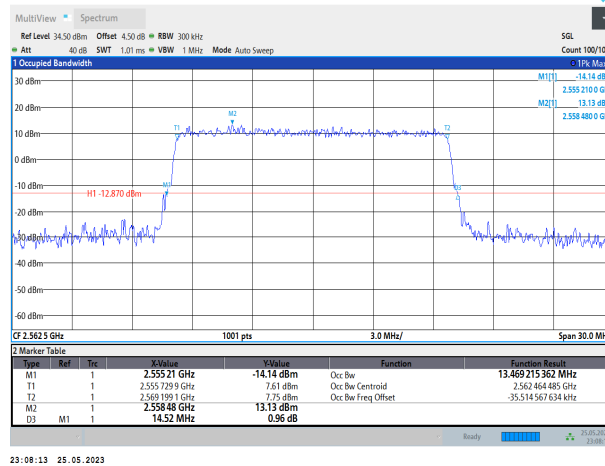
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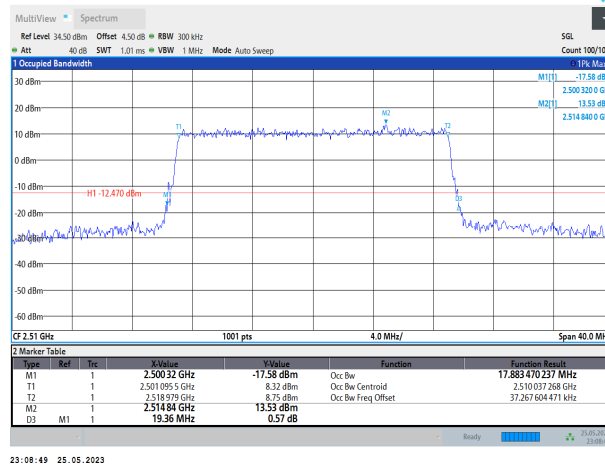
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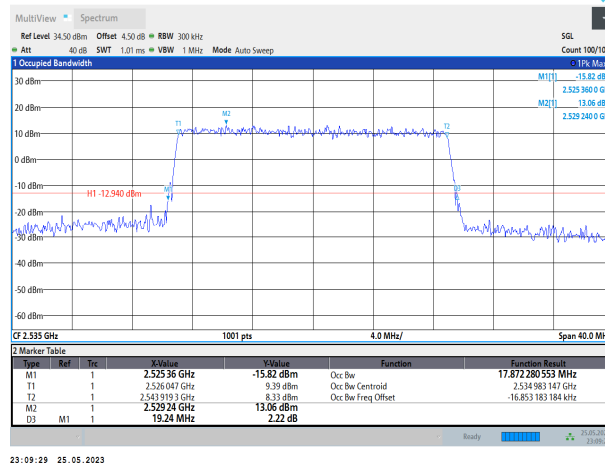


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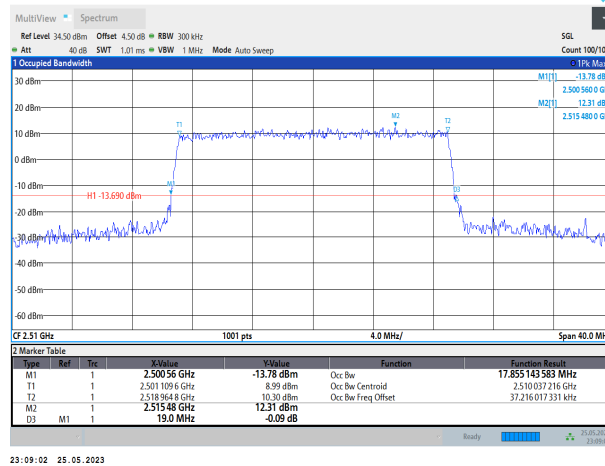


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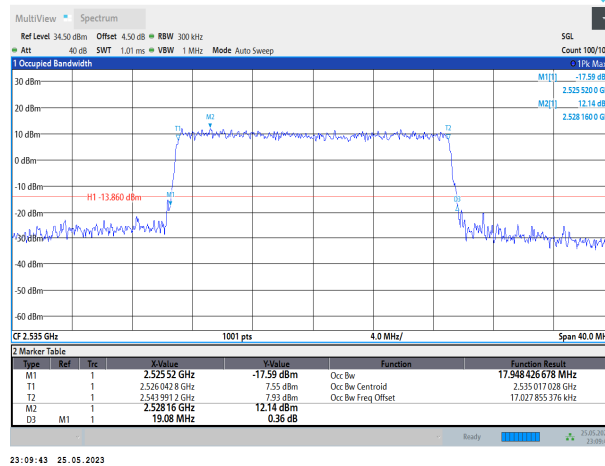
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Band7-20MHz-16QAM-20850-100RB#0



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



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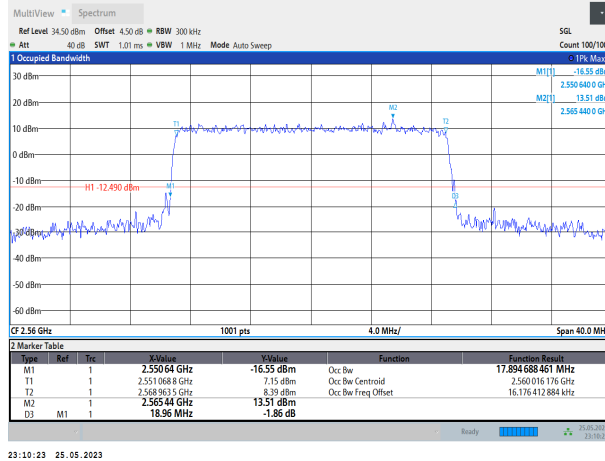
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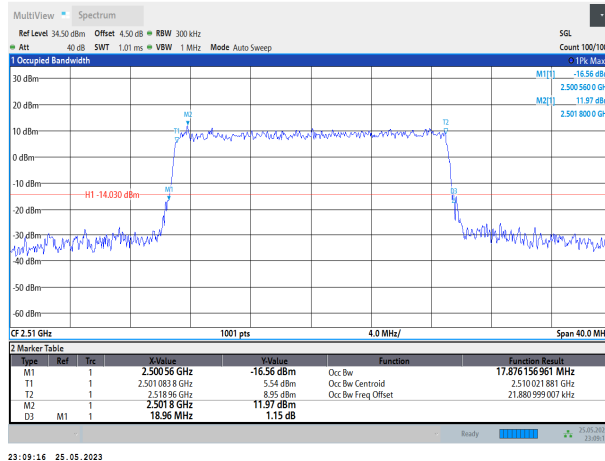
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Band7-20MHz-16QAM-21350-100RB#0



Band7-20MHz-64QAM-20850-100RB#0

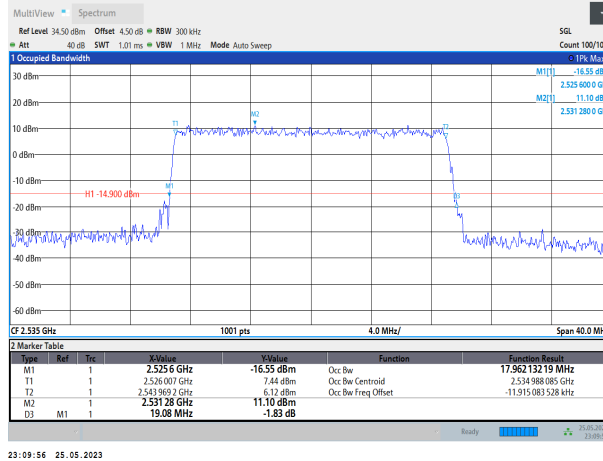


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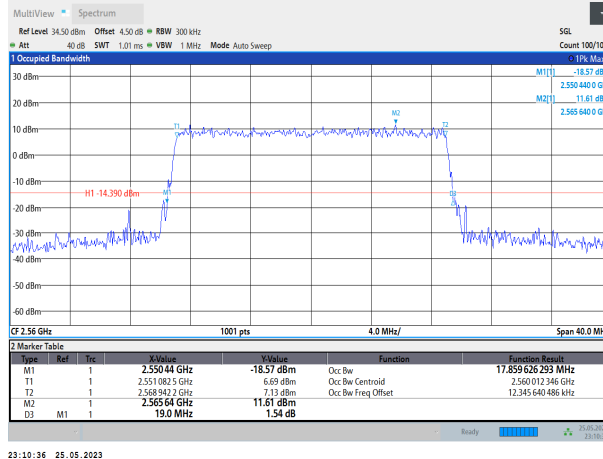
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Band7-20MHz-64QAM-21100-100RB#0



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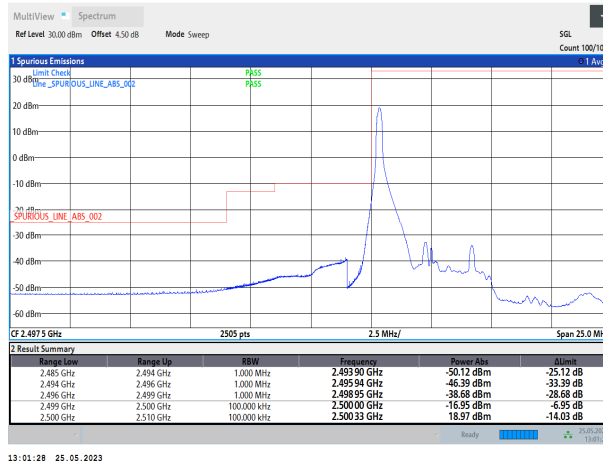
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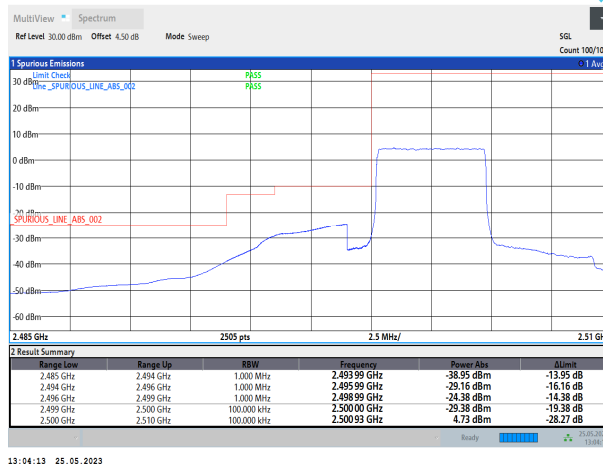
Band Edge

Test Graphs

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



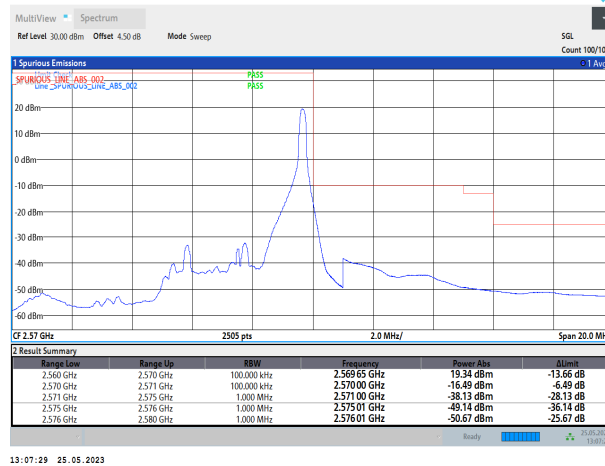
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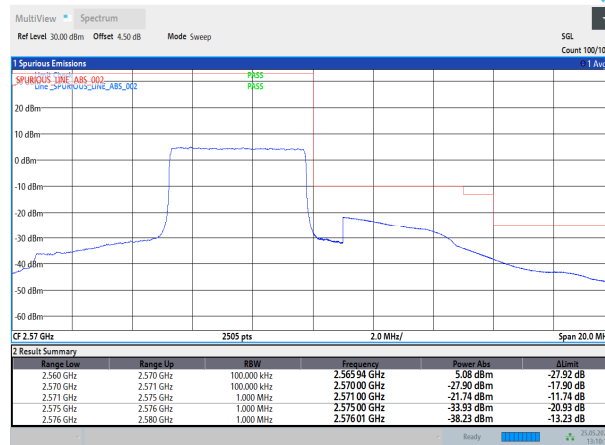
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Band7-5MHz-QPSK-21425-1RB#24



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



13:10:13 25.05.2023

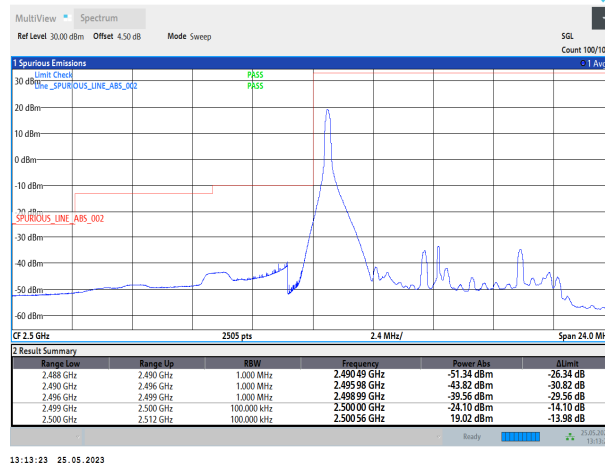


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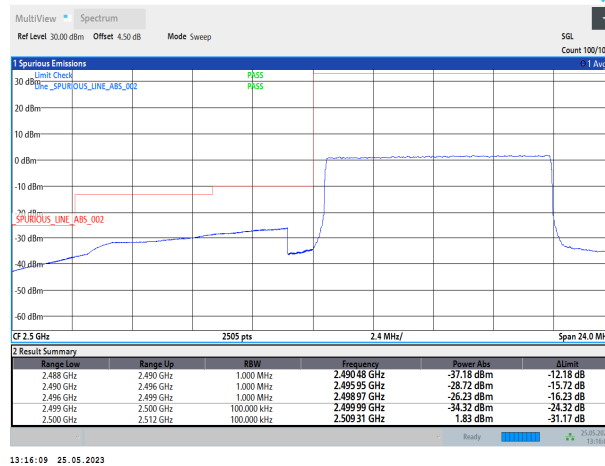
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Band7-10MHz-QPSK-20800-1RB#0



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

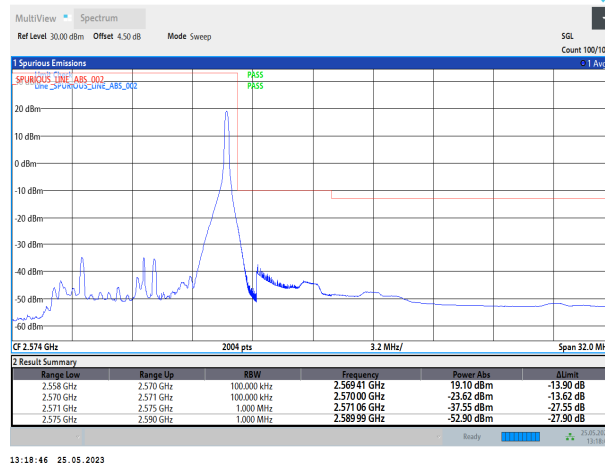


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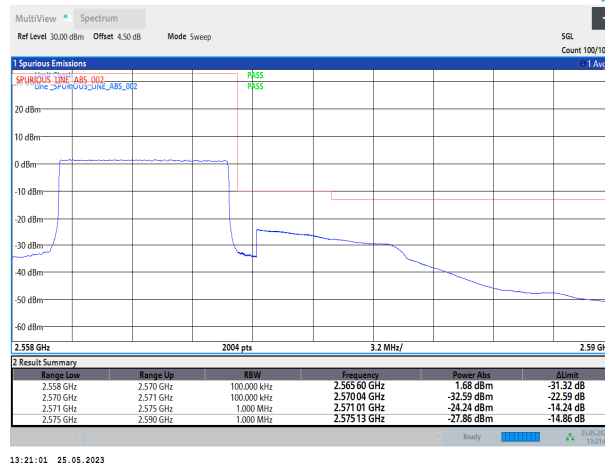
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Band7-10MHz-QPSK-21400-1RB#49



Band7-10MHz-QPSK-21400-50RB#0

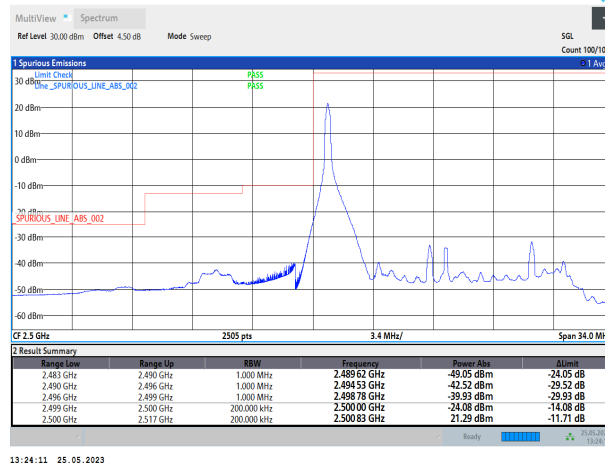


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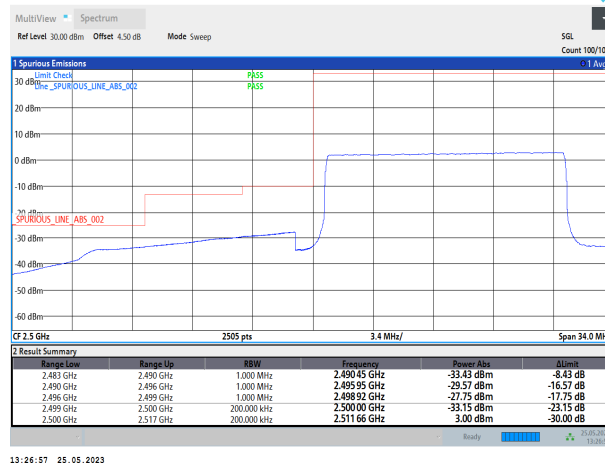
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Band7-15MHz-QPSK-20825-1RB#0



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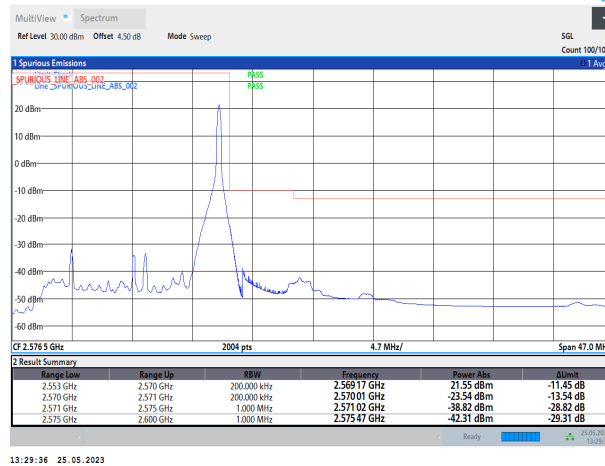
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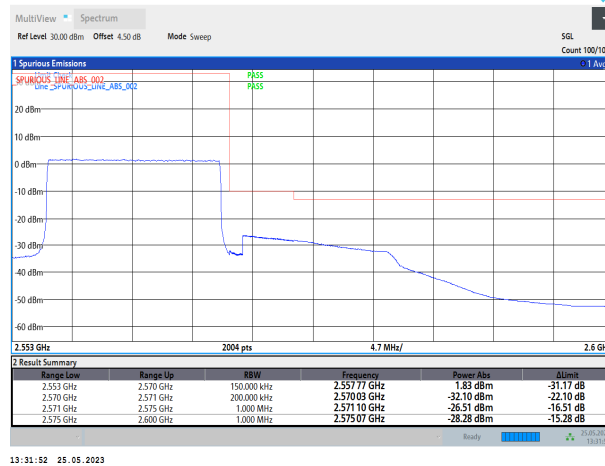
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Band7-15MHz-QPSK-21375-1RB#74



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



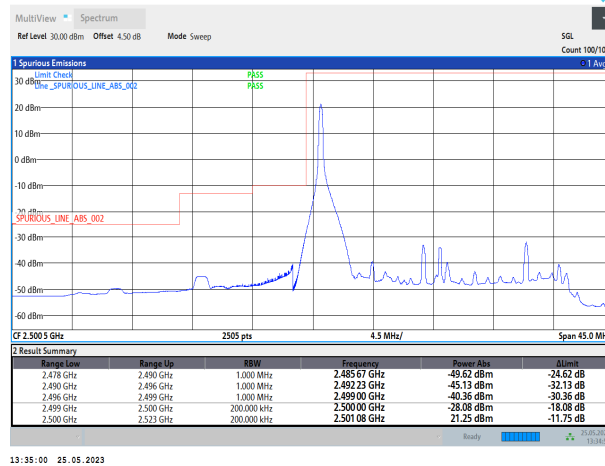
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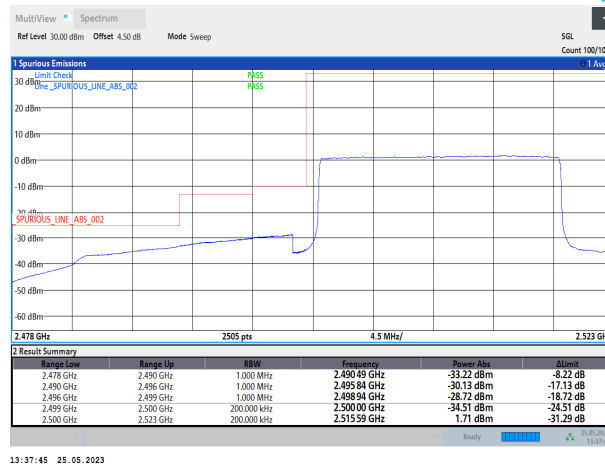
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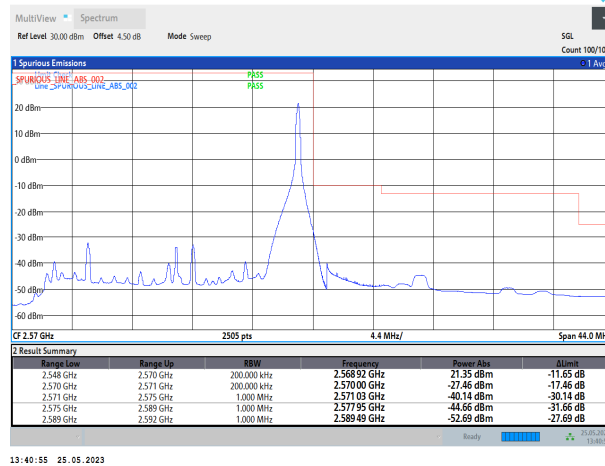
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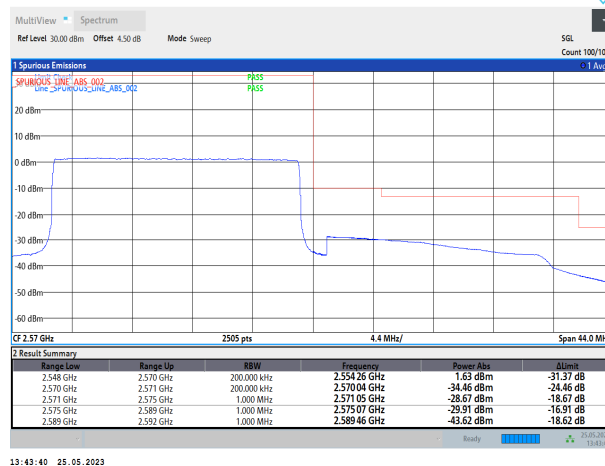
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Band7-20MHz-QPSK-21350-1RB#99



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



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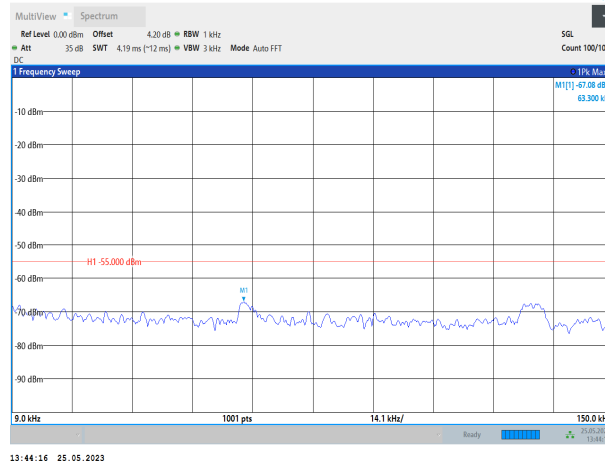
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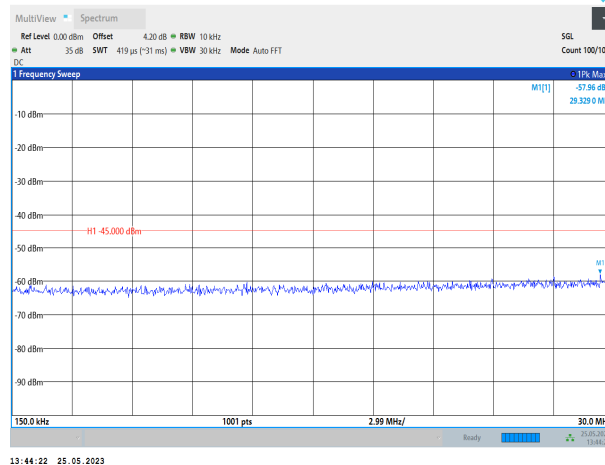
Conducted Spurious Emission

Test Graphs

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



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



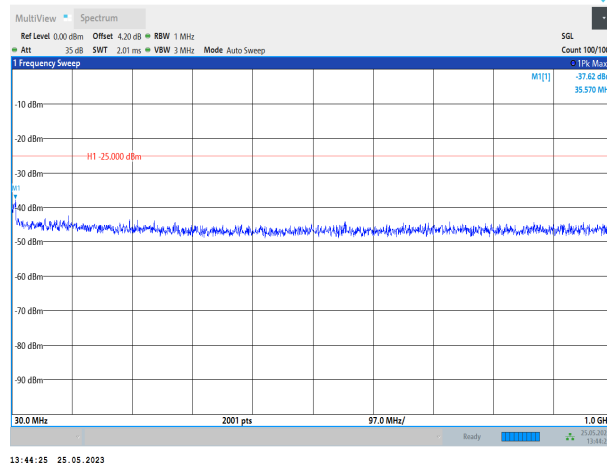
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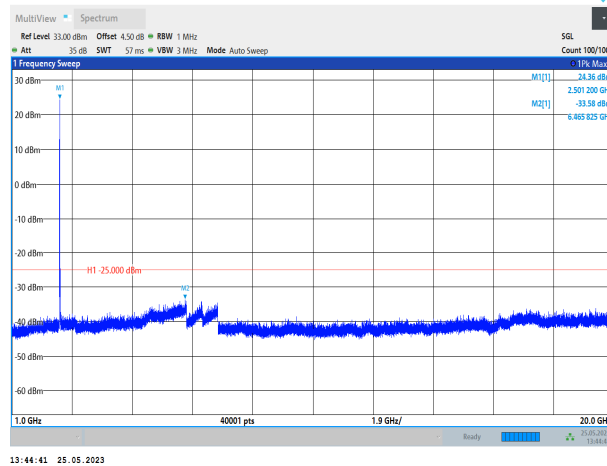
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Band7-20MHz-QPSK-20850-1RB#0-Range3:30~1000MHz



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



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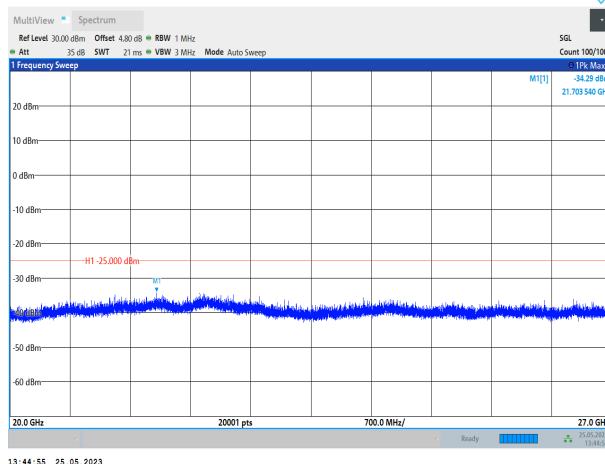
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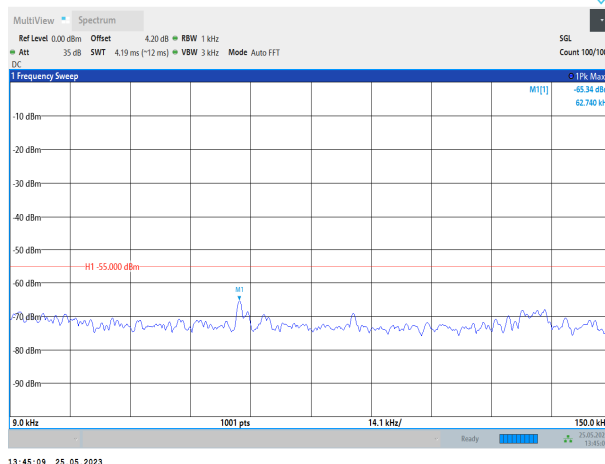
Rev.: 01

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



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



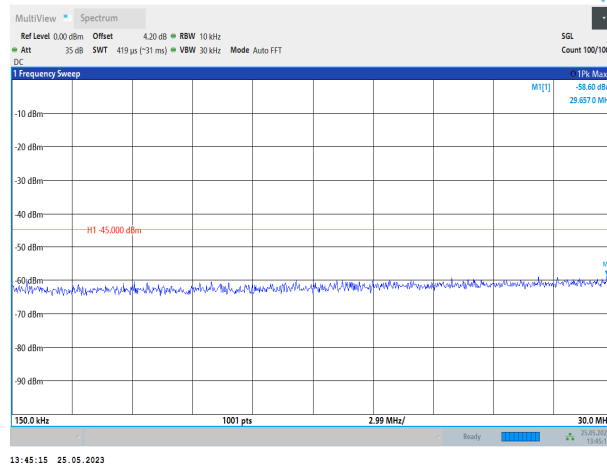
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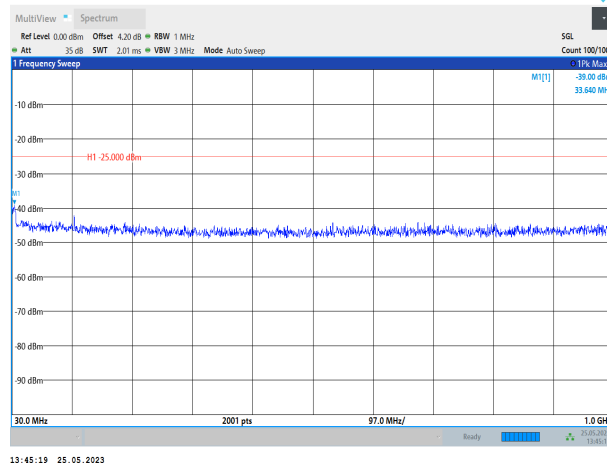
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Band7-20MHz-QPSK-21100-1RB#0-Range2:0.15~30MHz



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



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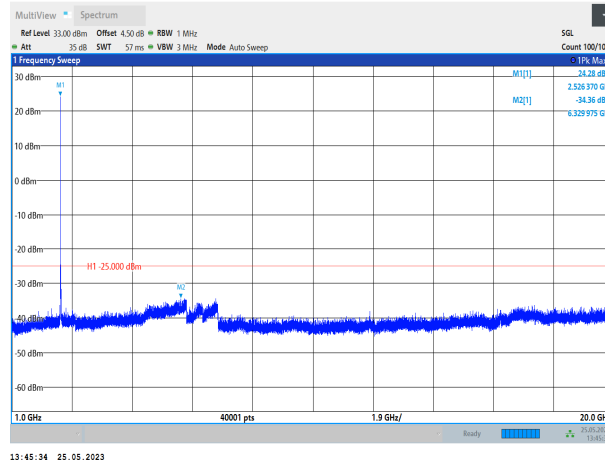
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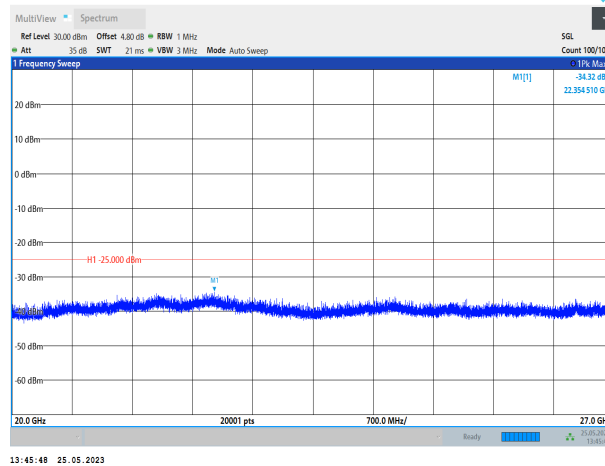
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Band7-20MHz-QPSK-21100-1RB#0-Range4:1000~20000MHz



Band7-20MHz-QPSK-21100-1RB#0-Range5:20000~27000MHz



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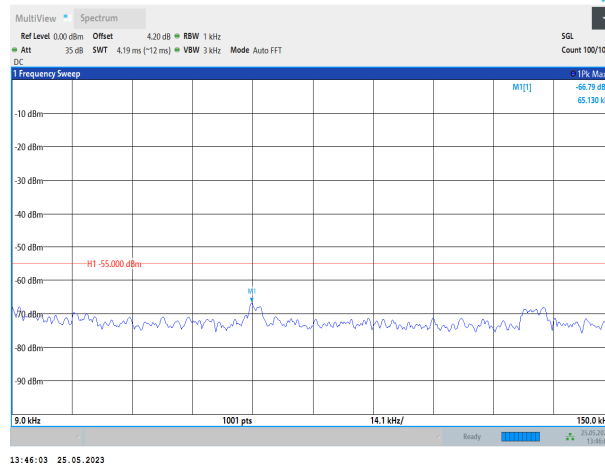
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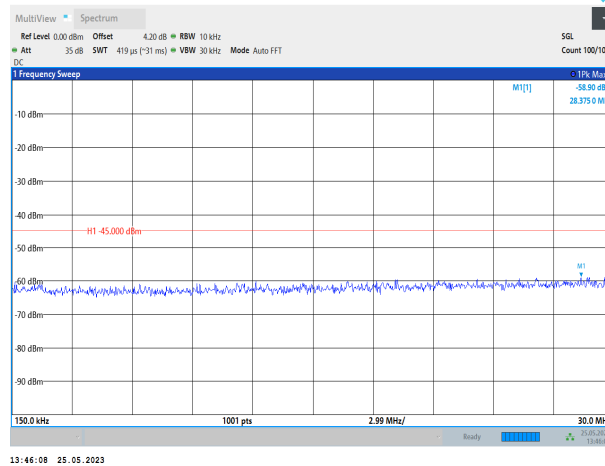
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Band7-20MHz-QPSK-21350-1RB#0-Range1:0.009~0.15MHz



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

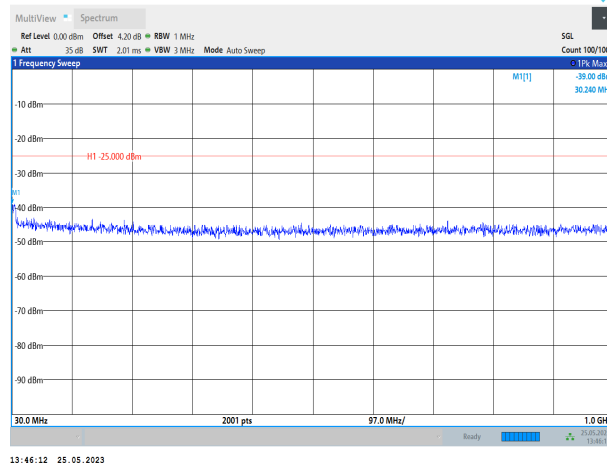


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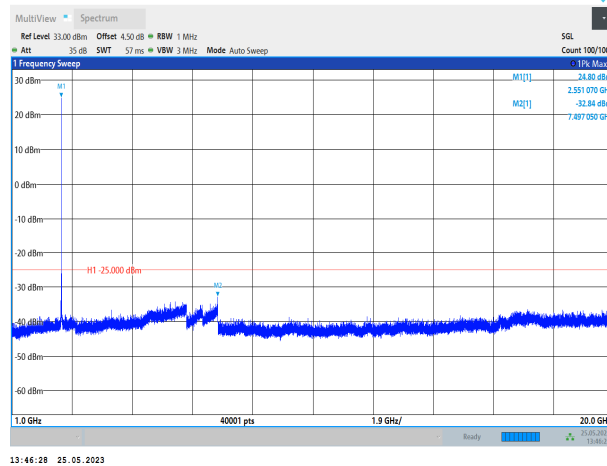
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Band7-20MHz-QPSK-21350-1RB#0-Range3:30~1000MHz



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



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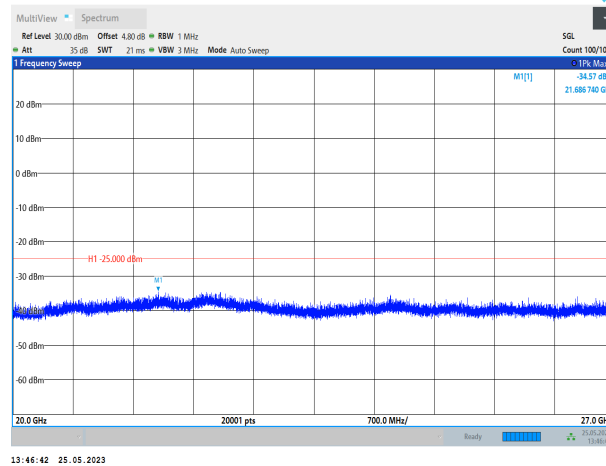


Report No.: SEWM2306000194RG01

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Band7-20MHz-QPSK-21350-1RB#0-Range5:20000~27000MHz



13:46:42 25.05.2023



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Field Strength of Spurious Radiation

Test Band = LTE Band 7_ TM1_ Ant13

Test Channel = Low Channel_20MHz

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7529	40.88	-41.50	36.56	-59.32	-25.00	34.32	185	198	Horizontal
2	5002.18	40.86	-44.92	32.60	-66.72	-25.00	41.72	296	279	Horizontal
3	10004.36	33.35	-37.13	38.50	-60.54	-25.00	35.54	153	220	Horizontal
4	12505.45	31.71	-35.23	39.11	-59.67	-25.00	34.67	209	55	Horizontal
5	15006.54	30.82	-34.00	39.19	-59.25	-25.00	34.25	166	239	Horizontal
6	17507.63	30.83	-31.88	40.63	-55.68	-25.00	30.68	214	239	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7503	41.88	-41.59	36.51	-58.46	-25.00	33.46	147	217	Vertical
2	5002.18	39.53	-44.92	32.60	-68.05	-25.00	43.05	281	196	Vertical
3	10004.36	34.18	-37.13	38.50	-59.71	-25.00	34.71	196	340	Vertical
4	12505.45	31.99	-35.23	39.11	-59.39	-25.00	34.39	206	217	Vertical
5	15006.54	30.82	-34.00	39.19	-59.25	-25.00	34.25	136	320	Vertical
6	17507.63	30.02	-31.88	40.63	-56.49	-25.00	31.49	251	32	Vertical



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Test Band = LTE Band 7_ TM1_ Ant13
Test Channel = Mid Channel_20MHz

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5052.18	41.17	-44.60	32.60	-66.09	-25.00	41.09	147	51	Horizontal
2	7578.27	38.08	-41.33	36.66	-61.86	-25.00	36.86	296	357	Horizontal
3	10104.36	34.83	-36.80	38.61	-58.61	-25.00	33.61	233	113	Horizontal
4	12630.45	31.30	-34.72	39.23	-59.45	-25.00	34.45	140	298	Horizontal
5	15156.54	32.01	-33.29	39.00	-57.54	-25.00	32.54	281	234	Horizontal
6	17682.63	30.41	-31.11	41.33	-54.63	-25.00	29.63	153	255	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5052.18	41.40	-44.60	32.60	-65.86	-25.00	40.86	159	321	Vertical
2	7578.27	38.52	-41.33	36.66	-61.42	-25.00	36.42	203	154	Vertical
3	10104.36	34.51	-36.80	38.61	-58.93	-25.00	33.93	244	300	Vertical
4	12630.45	30.83	-34.72	39.23	-59.92	-25.00	34.92	187	259	Vertical
5	15156.54	31.60	-33.29	39.00	-57.95	-25.00	32.95	190	4	Vertical
6	17682.63	30.23	-31.11	41.33	-54.81	-25.00	29.81	266	4	Vertical



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Test Band = LTE Band 7_ TM1_ Ant13
Test Channel = High Channel_20MHz

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5102.18	41.49	-44.29	32.60	-65.46	-25.00	40.46	258	196	Horizontal
2	7653.27	37.92	-41.30	36.81	-61.83	-25.00	36.83	194	51	Horizontal
3	10204.36	35.88	-36.56	38.72	-57.22	-25.00	32.22	203	5	Horizontal
4	12755.45	33.82	-35.10	39.36	-57.19	-25.00	32.19	267	278	Horizontal
5	15306.54	30.50	-33.87	38.80	-59.83	-25.00	34.83	188	258	Horizontal
6	17857.63	31.40	-30.96	42.03	-52.78	-25.00	27.78	149	196	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5102.18	41.13	-44.29	32.60	-65.82	-25.00	40.82	189	218	Vertical
2	7653.27	37.12	-41.30	36.81	-62.63	-25.00	37.63	203	155	Vertical
3	10204.36	35.21	-36.56	38.72	-57.89	-25.00	32.89	230	302	Vertical
4	12755.45	32.83	-35.10	39.36	-58.18	-25.00	33.18	142	4	Vertical
5	15306.54	30.99	-33.87	38.80	-59.34	-25.00	34.34	282	1	Vertical
6	17857.63	31.23	-30.96	42.03	-52.95	-25.00	27.95	176	196	Vertical



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Test Band = LTE Band 7_ TM1_ Ant31
Test Channel = Low Channel _20MHz

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5002.18	42.19	-44.92	32.60	-65.39	-25.00	40.39	178	321	Horizontal
2	7503.27	51.15	-41.59	36.51	-49.19	-25.00	24.19	239	88	Horizontal
3	10004.36	34.50	-37.13	38.50	-59.39	-25.00	34.39	146	131	Horizontal
4	12505.45	32.25	-35.23	39.11	-59.13	-25.00	34.13	287	107	Horizontal
5	15006.54	31.80	-34.00	39.19	-58.27	-25.00	33.27	156	88	Horizontal
6	17507.63	30.20	-31.88	40.63	-56.31	-25.00	31.31	234	173	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5002.18	41.36	-44.92	32.60	-66.22	-25.00	41.22	255	2	Vertical
2	7503.27	48.13	-41.59	36.51	-52.21	-25.00	27.21	175	295	Vertical
3	10004.36	34.84	-37.13	38.50	-59.05	-25.00	34.05	298	1	Vertical
4	12505.45	31.88	-35.23	39.11	-59.50	-25.00	34.50	264	88	Vertical
5	15006.54	31.09	-34.00	39.19	-58.98	-25.00	33.98	118	1	Vertical
6	17507.63	30.65	-31.88	40.63	-55.86	-25.00	30.86	137	255	Vertical



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Test Band = LTE Band 7_ TM1_ Ant31

Test Channel = Mid Channel _20MHz

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5052.18	44.40	-44.60	32.60	-62.86	-25.00	37.86	216	300	Horizontal
2	7578.27	49.05	-41.33	36.66	-50.89	-25.00	25.89	293	255	Horizontal
3	10104.36	34.10	-36.80	38.61	-59.34	-25.00	34.34	247	340	Horizontal
4	12630.45	32.34	-34.72	39.23	-58.41	-25.00	33.41	144	20	Horizontal
5	15156.54	31.09	-33.29	39.00	-58.46	-25.00	33.46	158	217	Horizontal
6	17682.63	30.79	-31.11	41.33	-54.25	-25.00	29.25	209	129	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5052.18	41.77	-44.60	32.60	-65.49	-25.00	40.49	199	302	Vertical
2	7578.27	47.37	-41.33	36.66	-52.57	-25.00	27.57	247	302	Vertical
3	10104.36	33.95	-36.80	38.61	-59.49	-25.00	34.49	146	16	Vertical
4	12630.45	31.47	-34.72	39.23	-59.28	-25.00	34.28	235	117	Vertical
5	15156.54	30.72	-33.29	39.00	-58.83	-25.00	33.83	142	261	Vertical
6	17682.63	30.55	-31.11	41.33	-54.49	-25.00	29.49	185	16	Vertical



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Test Band = LTE Band 7_ TM1_ Ant31
Test Channel = High Channel_20MHz

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5102.18	41.95	-44.29	32.60	-65.00	-25.00	40.00	215	1	Horizontal
2	7653.27	46.50	-41.30	36.81	-53.25	-25.00	28.25	195	93	Horizontal
3	10204.36	36.44	-36.56	38.72	-56.66	-25.00	31.66	164	196	Horizontal
4	12755.45	32.72	-35.10	39.36	-58.29	-25.00	33.29	287	340	Horizontal
5	15306.54	29.77	-33.87	38.80	-60.56	-25.00	35.56	134	300	Horizontal
6	17857.63	30.87	-30.96	42.03	-53.31	-25.00	28.31	251	0	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5102.18	40.94	-44.29	32.60	-66.01	-25.00	41.01	207	237	Vertical
2	7653.27	45.02	-41.30	36.81	-54.73	-25.00	29.73	164	321	Vertical
3	10204.36	34.82	-36.56	38.72	-58.28	-25.00	33.28	285	133	Vertical
4	12755.45	32.79	-35.10	39.36	-58.22	-25.00	33.22	148	50	Vertical
5	15306.54	31.07	-33.87	38.80	-59.26	-25.00	34.26	233	198	Vertical
6	17857.63	30.75	-30.96	42.03	-53.43	-25.00	28.43	197	237	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:

$$AF = \text{Antenna Factor (dB/m)}$$

$$\text{Factor} = \text{Cable Factor (dB)} - \text{Preamplifier (dB)}$$

$$\text{Level} = \text{Reading Level} + AF + \text{Factor} - 95.26$$

$$\text{Margin} = \text{Limit} - \text{Level}$$


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Test on the worst case:

Test Band = LTE Band 7_ TM1_ Ant13

Test Channel = Low Channel _20MHz

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5002.18	39.00	-44.92	33.20	-67.98	-25.00	42.98	296	235	Horizontal
2	7503.27	40.15	-41.59	36.60	-60.09	-25.00	35.09	265	1	Horizontal
3	10004.36	34.81	-37.13	37.90	-59.68	-25.00	34.68	284	88	Horizontal
4	12505.45	31.96	-35.23	39.01	-59.52	-25.00	34.52	142	47	Horizontal
5	15006.54	31.67	-34.00	40.09	-57.50	-25.00	32.50	263	131	Horizontal
6	17507.63	29.94	-31.88	40.12	-57.08	-25.00	32.08	228	276	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5002.18	40.12	-44.92	33.20	-66.86	-25.00	41.86	196	111	Vertical
2	7503.27	40.06	-41.59	36.60	-60.18	-25.00	35.18	265	356	Vertical
3	10004.36	34.66	-37.13	37.90	-59.83	-25.00	34.83	284	49	Vertical
4	12505.45	33.28	-35.23	39.01	-58.20	-25.00	33.20	142	111	Vertical
5	15006.54	32.34	-34.00	40.09	-56.83	-25.00	31.83	263	172	Vertical
6	17507.63	29.96	-31.88	40.12	-57.06	-25.00	32.06	228	92	Vertical



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 Page: 59 of 64

Test Band = LTE Band 7_ TM1_ Ant13

Test Channel = Mid Channel _20MHz

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5052.18	41.23	-44.60	33.19	-65.44	-25.00	40.44	196	10	Horizontal
2	7578.27	40.12	-41.33	36.68	-59.79	-25.00	34.79	265	340	Horizontal
3	10104.36	35.00	-36.80	37.95	-59.11	-25.00	34.11	284	10	Horizontal
4	12630.45	31.11	-34.72	39.16	-59.71	-25.00	34.71	142	154	Horizontal
5	15156.54	31.47	-33.29	39.80	-57.28	-25.00	32.28	263	3	Horizontal
6	17682.63	32.37	-31.11	40.54	-53.46	-25.00	28.46	228	340	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5052.18	41.07	-44.60	33.19	-65.60	-25.00	40.60	296	3	Vertical
2	7578.27	37.97	-41.33	36.68	-61.94	-25.00	36.94	265	258	Vertical
3	10104.36	34.85	-36.80	37.95	-59.26	-25.00	34.26	285	237	Vertical
4	12630.45	32.14	-34.72	39.16	-58.68	-25.00	33.68	254	13	Vertical
5	15156.54	32.62	-33.29	39.80	-56.13	-25.00	31.13	142	31	Vertical
6	17682.63	31.94	-31.11	40.54	-53.89	-25.00	28.89	263	0	Vertical



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Test Band = LTE Band 7_ TM1_ Ant13
Test Channel = High Channel _20MHz

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7653	44.39	-41.30	36.75	-55.41	-25.00	30.41	196	320	Horizontal
2	5102.18	41.03	-44.29	33.18	-65.34	-25.00	40.34	265	131	Horizontal
3	10204.36	35.95	-36.56	38.00	-57.87	-25.00	32.87	284	320	Horizontal
4	12755.45	33.37	-35.10	39.31	-57.69	-25.00	32.69	142	10	Horizontal
5	15306.54	31.19	-33.87	39.52	-58.42	-25.00	33.42	263	153	Horizontal
6	17857.63	32.14	-30.96	40.96	-53.12	-25.00	28.12	228	174	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5102.18	40.42	-44.29	33.18	-65.95	-25.00	40.95	196	113	Vertical
2	7653.27	40.62	-41.30	36.75	-59.18	-25.00	34.18	224	340	Vertical
3	10204.36	36.84	-36.56	38.00	-56.98	-25.00	31.98	142	29	Vertical
4	12755.45	34.62	-35.10	39.31	-56.44	-25.00	31.44	296	4	Vertical
5	15306.54	32.12	-33.87	39.52	-57.49	-25.00	32.49	223	29	Vertical
6	17857.63	31.99	-30.96	40.96	-53.27	-25.00	28.27	224	282	Vertical



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Test Band = LTE Band 7_ TM1_ Ant31
Test Channel = Low Channel _20MHz

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5002.18	39.75	-44.92	33.20	-67.23	-25.00	42.23	196	0	Horizontal
2	7503.27	39.94	-41.59	36.60	-60.30	-25.00	35.30	265	339	Horizontal
3	10004.36	34.64	-37.13	37.90	-59.85	-25.00	34.85	284	357	Horizontal
4	12505.45	32.01	-35.23	39.01	-59.47	-25.00	34.47	142	13	Horizontal
5	15006.54	32.56	-34.00	40.09	-56.61	-25.00	31.61	263	110	Horizontal
6	17507.63	30.89	-31.88	40.12	-56.13	-25.00	31.13	228	3	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5002.18	40.52	-44.92	33.20	-66.46	-25.00	41.46	226	28	Vertical
2	7503.27	40.00	-41.59	36.60	-60.24	-25.00	35.24	241	154	Vertical
3	10004.36	34.10	-37.13	37.90	-60.39	-25.00	35.39	265	28	Vertical
4	12505.45	32.47	-35.23	39.01	-59.01	-25.00	34.01	284	0	Vertical
5	15006.54	31.81	-34.00	40.09	-57.36	-25.00	32.36	142	154	Vertical
6	17507.63	29.58	-31.88	40.12	-57.44	-25.00	32.44	263	0	Vertical



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Test Band = LTE Band 7_ TM1_ Ant31
Test Channel = Mid Channel _20MHz

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5052.18	41.88	-44.60	33.19	-64.79	-25.00	39.79	196	237	Horizontal
2	7578.27	39.80	-41.33	36.68	-60.11	-25.00	35.11	265	341	Horizontal
3	10104.36	34.46	-36.80	37.95	-59.65	-25.00	34.65	284	71	Horizontal
4	12630.45	32.59	-34.72	39.16	-58.23	-25.00	33.23	142	237	Horizontal
5	15156.54	31.25	-33.29	39.80	-57.50	-25.00	32.50	263	31	Horizontal
6	17682.63	31.32	-31.11	40.54	-54.51	-25.00	29.51	227	278	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5052.18	40.80	-44.60	33.19	-65.87	-25.00	40.87	296	357	Vertical
2	7578.27	38.55	-41.33	36.68	-61.36	-25.00	36.36	265	16	Vertical
3	10104.36	34.55	-36.80	37.95	-59.56	-25.00	34.56	142	357	Vertical
4	12630.45	31.93	-34.72	39.16	-58.89	-25.00	33.89	263	298	Vertical
5	15156.54	31.46	-33.29	39.80	-57.29	-25.00	32.29	221	0	Vertical
6	17682.63	31.32	-31.11	40.54	-54.51	-25.00	29.51	185	0	Vertical



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Test Band = LTE Band 7_ TM1_ Ant31

Test Channel = High Channel _20MHz

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5102.18	40.95	-44.29	33.18	-65.42	-25.00	40.42	201	158	Horizontal
2	7653.27	41.20	-41.30	36.75	-58.60	-25.00	33.60	142	343	Horizontal
3	10204.36	36.00	-36.56	38.00	-57.82	-25.00	32.82	265	14	Horizontal
4	12755.45	32.76	-35.10	39.31	-58.30	-25.00	33.30	284	34	Horizontal
5	15306.54	31.15	-33.87	39.52	-58.46	-25.00	33.46	142	158	Horizontal
6	17857.63	30.74	-30.96	40.96	-54.52	-25.00	29.52	263	0	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5102.18	41.03	-44.29	33.18	-65.34	-25.00	40.34	196	74	Vertical
2	7653.27	37.58	-41.30	36.75	-62.22	-25.00	37.22	265	357	Vertical
3	10204.36	36.15	-36.56	38.00	-57.67	-25.00	32.67	284	357	Vertical
4	12755.45	33.84	-35.10	39.31	-57.22	-25.00	32.22	142	3	Vertical
5	15306.54	31.43	-33.87	39.52	-58.18	-25.00	33.18	263	74	Vertical
6	17857.63	31.31	-30.96	40.96	-53.95	-25.00	28.95	228	199	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) - Preamp (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
Band7	20MHz	QPSK	21100	100RB#0	VL	NT	-16.70	-0.006588	PASS
Band7	20MHz	QPSK	21100	100RB#0	VN	NT	-24.20	-0.009546	PASS
Band7	20MHz	QPSK	21100	100RB#0	VH	NT	7.90	0.003116	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band7	20MHz	QPSK	21100	100RB#0	NV	-30	-1.70	-0.000671	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-20	2.30	0.000907	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-10	0.40	0.000158	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	0	3.50	0.001381	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	10	13.20	0.005207	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	20	-6.60	-0.002604	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	30	-5.30	-0.002091	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	40	-4.00	-0.001578	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	50	-4.90	-0.001933	PASS

---End of Attachment---



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