



Appendix B.6

LTE Band 7



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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	23.67	24.77	33	PASS
Band7	5MHz	QPSK	20775	1RB#12	23.81	24.91	33	PASS
Band7	5MHz	QPSK	20775	1RB#24	23.50	24.6	33	PASS
Band7	5MHz	QPSK	20775	25RB#0	22.75	23.85	33	PASS
Band7	5MHz	QPSK	21100	1RB#0	23.09	24.19	33	PASS
Band7	5MHz	QPSK	21100	1RB#12	23.52	24.62	33	PASS
Band7	5MHz	QPSK	21100	1RB#24	23.32	24.42	33	PASS
Band7	5MHz	QPSK	21100	25RB#0	22.15	23.25	33	PASS
Band7	5MHz	QPSK	21425	1RB#0	23.54	24.64	33	PASS
Band7	5MHz	QPSK	21425	1RB#12	23.24	24.34	33	PASS
Band7	5MHz	QPSK	21425	1RB#24	23.16	24.26	33	PASS
Band7	5MHz	QPSK	21425	25RB#0	22.61	23.71	33	PASS
Band7	5MHz	16QAM	20775	1RB#0	22.93	24.03	33	PASS
Band7	5MHz	16QAM	20775	1RB#12	22.49	23.59	33	PASS
Band7	5MHz	16QAM	20775	1RB#24	22.82	23.92	33	PASS
Band7	5MHz	16QAM	20775	25RB#0	21.34	22.44	33	PASS
Band7	5MHz	16QAM	21100	1RB#0	22.22	23.32	33	PASS
Band7	5MHz	16QAM	21100	1RB#12	22.61	23.71	33	PASS
Band7	5MHz	16QAM	21100	1RB#24	22.30	23.4	33	PASS
Band7	5MHz	16QAM	21100	25RB#0	21.17	22.27	33	PASS
Band7	5MHz	16QAM	21425	1RB#0	22.54	23.64	33	PASS
Band7	5MHz	16QAM	21425	1RB#12	22.40	23.5	33	PASS
Band7	5MHz	16QAM	21425	1RB#24	22.54	23.64	33	PASS
Band7	5MHz	16QAM	21425	25RB#0	21.30	22.4	33	PASS
Band7	5MHz	64QAM	20775	1RB#0	21.83	22.93	33	PASS
Band7	5MHz	64QAM	20775	1RB#12	21.63	22.73	33	PASS
Band7	5MHz	64QAM	20775	1RB#24	21.79	22.89	33	PASS
Band7	5MHz	64QAM	20775	25RB#0	20.72	21.82	33	PASS
Band7	5MHz	64QAM	21100	1RB#0	21.71	22.81	33	PASS
Band7	5MHz	64QAM	21100	1RB#12	21.54	22.64	33	PASS



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Band7	5MHz	64QAM	21100	1RB#24	21.54	22.64	33	PASS
Band7	5MHz	64QAM	21100	25RB#0	20.56	21.66	33	PASS
Band7	5MHz	64QAM	21425	1RB#0	21.75	22.85	33	PASS
Band7	5MHz	64QAM	21425	1RB#12	21.70	22.8	33	PASS
Band7	5MHz	64QAM	21425	1RB#24	21.71	22.81	33	PASS
Band7	5MHz	64QAM	21425	25RB#0	20.49	21.59	33	PASS
Band7	10MHz	QPSK	20800	1RB#0	23.80	24.9	33	PASS
Band7	10MHz	QPSK	20800	1RB#24	23.75	24.85	33	PASS
Band7	10MHz	QPSK	20800	1RB#49	23.53	24.63	33	PASS
Band7	10MHz	QPSK	20800	50RB#0	22.73	23.83	33	PASS
Band7	10MHz	QPSK	21100	1RB#0	23.40	24.5	33	PASS
Band7	10MHz	QPSK	21100	1RB#24	23.32	24.42	33	PASS
Band7	10MHz	QPSK	21100	1RB#49	23.16	24.26	33	PASS
Band7	10MHz	QPSK	21100	50RB#0	22.29	23.39	33	PASS
Band7	10MHz	QPSK	21400	1RB#0	23.83	24.93	33	PASS
Band7	10MHz	QPSK	21400	1RB#24	23.16	24.26	33	PASS
Band7	10MHz	QPSK	21400	1RB#49	23.87	24.97	33	PASS
Band7	10MHz	QPSK	21400	50RB#0	22.63	23.73	33	PASS
Band7	10MHz	16QAM	20800	1RB#0	22.87	23.97	33	PASS
Band7	10MHz	16QAM	20800	1RB#24	22.56	23.66	33	PASS
Band7	10MHz	16QAM	20800	1RB#49	22.67	23.77	33	PASS
Band7	10MHz	16QAM	20800	50RB#0	21.29	22.39	33	PASS
Band7	10MHz	16QAM	21100	1RB#0	22.62	23.72	33	PASS
Band7	10MHz	16QAM	21100	1RB#24	22.53	23.63	33	PASS
Band7	10MHz	16QAM	21100	1RB#49	22.42	23.52	33	PASS
Band7	10MHz	16QAM	21100	50RB#0	21.22	22.32	33	PASS
Band7	10MHz	16QAM	21400	1RB#0	22.94	24.04	33	PASS
Band7	10MHz	16QAM	21400	1RB#24	22.65	23.75	33	PASS
Band7	10MHz	16QAM	21400	1RB#49	22.63	23.73	33	PASS
Band7	10MHz	16QAM	21400	50RB#0	21.32	22.42	33	PASS
Band7	10MHz	64QAM	20800	1RB#0	21.68	22.78	33	PASS
Band7	10MHz	64QAM	20800	1RB#24	21.59	22.69	33	PASS
Band7	10MHz	64QAM	20800	1RB#49	21.79	22.89	33	PASS
Band7	10MHz	64QAM	20800	50RB#0	20.62	21.72	33	PASS
Band7	10MHz	64QAM	21100	1RB#0	21.86	22.96	33	PASS
Band7	10MHz	64QAM	21100	1RB#24	21.57	22.67	33	PASS
Band7	10MHz	64QAM	21100	1RB#49	21.66	22.76	33	PASS
Band7	10MHz	64QAM	21100	50RB#0	20.48	21.58	33	PASS



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Band7	10MHz	64QAM	21400	1RB#0	21.99	23.09	33	PASS
Band7	10MHz	64QAM	21400	1RB#24	21.90	23	33	PASS
Band7	10MHz	64QAM	21400	1RB#49	21.66	22.76	33	PASS
Band7	10MHz	64QAM	21400	50RB#0	20.58	21.68	33	PASS
Band7	15MHz	QPSK	20825	1RB#0	23.92	25.02	33	PASS
Band7	15MHz	QPSK	20825	1RB#38	23.90	25	33	PASS
Band7	15MHz	QPSK	20825	1RB#74	23.50	24.6	33	PASS
Band7	15MHz	QPSK	20825	75RB#0	22.80	23.9	33	PASS
Band7	15MHz	QPSK	21100	1RB#0	23.46	24.56	33	PASS
Band7	15MHz	QPSK	21100	1RB#38	23.31	24.41	33	PASS
Band7	15MHz	QPSK	21100	1RB#74	23.36	24.46	33	PASS
Band7	15MHz	QPSK	21100	75RB#0	22.61	23.71	33	PASS
Band7	15MHz	QPSK	21375	1RB#0	23.75	24.85	33	PASS
Band7	15MHz	QPSK	21375	1RB#38	23.72	24.82	33	PASS
Band7	15MHz	QPSK	21375	1RB#74	23.26	24.36	33	PASS
Band7	15MHz	QPSK	21375	75RB#0	22.83	23.93	33	PASS
Band7	15MHz	16QAM	20825	1RB#0	23.19	24.29	33	PASS
Band7	15MHz	16QAM	20825	1RB#38	23.01	24.11	33	PASS
Band7	15MHz	16QAM	20825	1RB#74	22.94	24.04	33	PASS
Band7	15MHz	16QAM	20825	75RB#0	21.89	22.99	33	PASS
Band7	15MHz	16QAM	21100	1RB#0	22.78	23.88	33	PASS
Band7	15MHz	16QAM	21100	1RB#38	22.63	23.73	33	PASS
Band7	15MHz	16QAM	21100	1RB#74	22.63	23.73	33	PASS
Band7	15MHz	16QAM	21100	75RB#0	21.65	22.75	33	PASS
Band7	15MHz	16QAM	21375	1RB#0	23.13	24.23	33	PASS
Band7	15MHz	16QAM	21375	1RB#38	22.98	24.08	33	PASS
Band7	15MHz	16QAM	21375	1RB#74	22.64	23.74	33	PASS
Band7	15MHz	16QAM	21375	75RB#0	21.82	22.92	33	PASS
Band7	15MHz	64QAM	20825	1RB#0	21.71	22.81	33	PASS
Band7	15MHz	64QAM	20825	1RB#38	21.83	22.93	33	PASS
Band7	15MHz	64QAM	20825	1RB#74	21.72	22.82	33	PASS
Band7	15MHz	64QAM	20825	75RB#0	20.82	21.92	33	PASS
Band7	15MHz	64QAM	21100	1RB#0	21.65	22.75	33	PASS
Band7	15MHz	64QAM	21100	1RB#38	21.67	22.77	33	PASS
Band7	15MHz	64QAM	21100	1RB#74	21.84	22.94	33	PASS
Band7	15MHz	64QAM	21100	75RB#0	20.63	21.73	33	PASS
Band7	15MHz	64QAM	21375	1RB#0	21.81	22.91	33	PASS
Band7	15MHz	64QAM	21375	1RB#38	21.69	22.79	33	PASS



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Band7	15MHz	64QAM	21375	1RB#74	21.65	22.75	33	PASS
Band7	15MHz	64QAM	21375	75RB#0	20.71	21.81	33	PASS
Band7	20MHz	QPSK	20850	1RB#0	23.88	24.98	33	PASS
Band7	20MHz	QPSK	20850	1RB#49	23.90	25	33	PASS
Band7	20MHz	QPSK	20850	1RB#99	23.61	24.71	33	PASS
Band7	20MHz	QPSK	20850	100RB#0	22.77	23.87	33	PASS
Band7	20MHz	QPSK	21100	1RB#0	23.49	24.59	33	PASS
Band7	20MHz	QPSK	21100	1RB#49	23.37	24.47	33	PASS
Band7	20MHz	QPSK	21100	1RB#99	23.43	24.53	33	PASS
Band7	20MHz	QPSK	21100	100RB#0	22.66	23.76	33	PASS
Band7	20MHz	QPSK	21350	1RB#0	23.42	24.52	33	PASS
Band7	20MHz	QPSK	21350	1RB#49	23.11	24.21	33	PASS
Band7	20MHz	QPSK	21350	1RB#99	23.56	24.66	33	PASS
Band7	20MHz	QPSK	21350	100RB#0	22.75	23.85	33	PASS
Band7	20MHz	16QAM	20850	1RB#0	23.02	24.12	33	PASS
Band7	20MHz	16QAM	20850	1RB#49	22.86	23.96	33	PASS
Band7	20MHz	16QAM	20850	1RB#99	22.93	24.03	33	PASS
Band7	20MHz	16QAM	20850	100RB#0	21.77	22.87	33	PASS
Band7	20MHz	16QAM	21100	1RB#0	22.94	24.04	33	PASS
Band7	20MHz	16QAM	21100	1RB#49	22.54	23.64	33	PASS
Band7	20MHz	16QAM	21100	1RB#99	22.54	23.64	33	PASS
Band7	20MHz	16QAM	21100	100RB#0	21.48	22.58	33	PASS
Band7	20MHz	16QAM	21350	1RB#0	22.93	24.03	33	PASS
Band7	20MHz	16QAM	21350	1RB#49	22.87	23.97	33	PASS
Band7	20MHz	16QAM	21350	1RB#99	22.88	23.98	33	PASS
Band7	20MHz	16QAM	21350	100RB#0	21.75	22.85	33	PASS
Band7	20MHz	64QAM	20850	1RB#0	21.76	22.86	33	PASS
Band7	20MHz	64QAM	20850	1RB#49	21.81	22.91	33	PASS
Band7	20MHz	64QAM	20850	1RB#99	21.70	22.8	33	PASS
Band7	20MHz	64QAM	20850	100RB#0	20.77	21.87	33	PASS
Band7	20MHz	64QAM	21100	1RB#0	21.81	22.91	33	PASS
Band7	20MHz	64QAM	21100	1RB#49	21.80	22.9	33	PASS
Band7	20MHz	64QAM	21100	1RB#99	21.56	22.66	33	PASS
Band7	20MHz	64QAM	21100	100RB#0	20.56	21.66	33	PASS
Band7	20MHz	64QAM	21350	1RB#0	21.91	23.01	33	PASS
Band7	20MHz	64QAM	21350	1RB#49	21.80	22.9	33	PASS
Band7	20MHz	64QAM	21350	1RB#99	21.87	22.97	33	PASS
Band7	20MHz	64QAM	21350	100RB#0	20.65	21.75	33	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	4.87	13	PASS
Band7	20MHz	QPSK	21100	100RB#0	4.49	13	PASS
Band7	20MHz	QPSK	21350	100RB#0	4.78	13	PASS
Band7	20MHz	16QAM	20850	100RB#0	5.77	13	PASS
Band7	20MHz	16QAM	21100	100RB#0	5.36	13	PASS
Band7	20MHz	16QAM	21350	100RB#0	5.65	13	PASS
Band7	20MHz	64QAM	20850	100RB#0	6.17	13	PASS
Band7	20MHz	64QAM	21100	100RB#0	5.94	13	PASS
Band7	20MHz	64QAM	21350	100RB#0	6.12	13	PASS

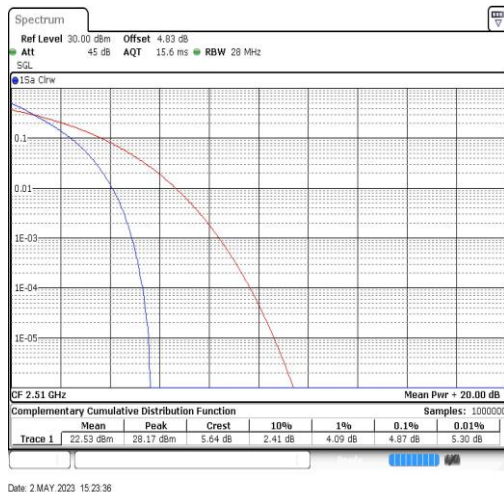


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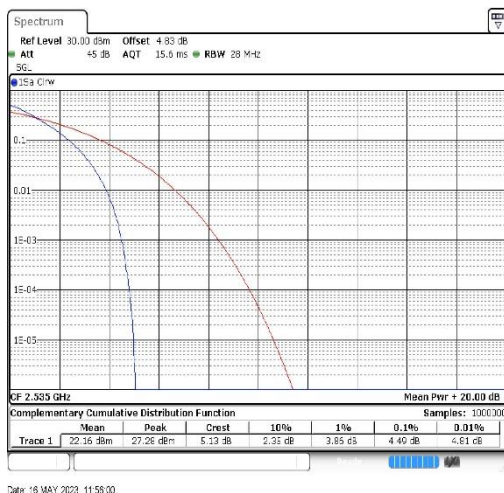
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Test Graphs

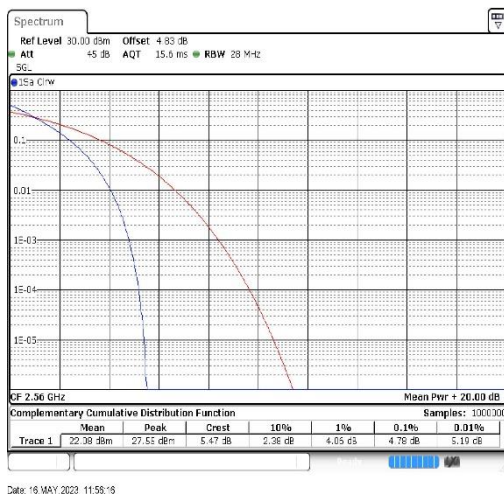


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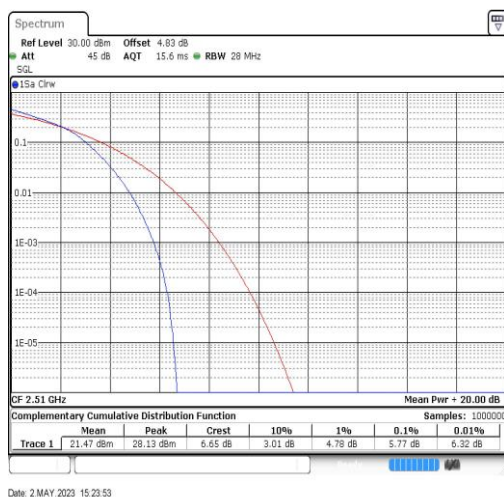


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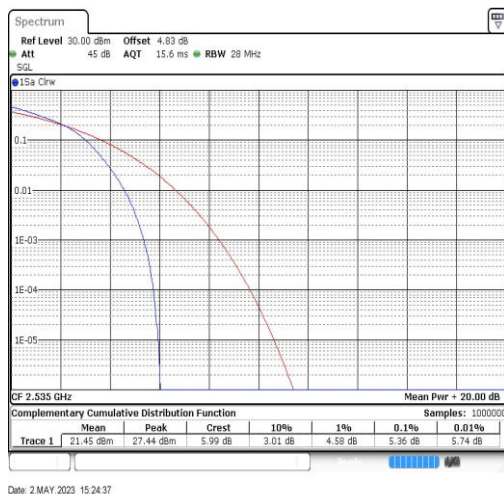


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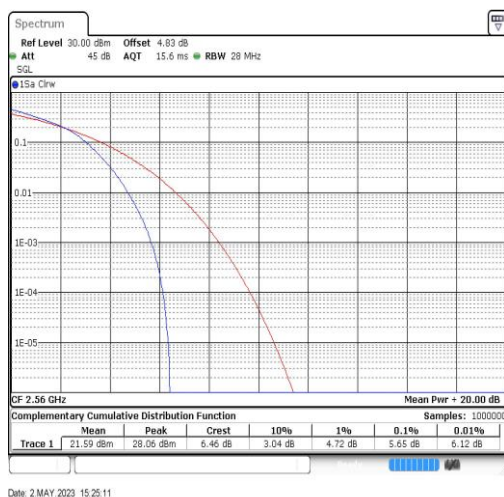


Band7-20MHz-16QAM-20850-100RB#0





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



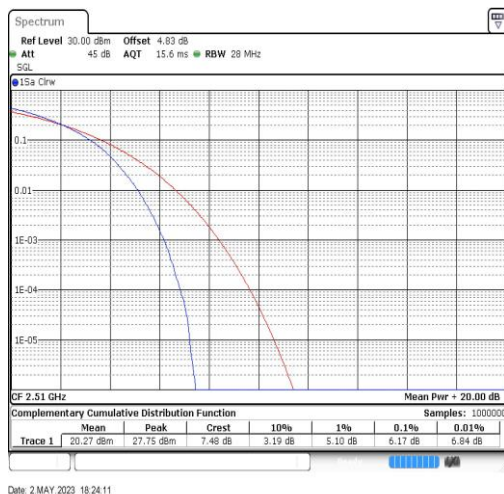
Band7-20MHz-16QAM-21350-100RB#0



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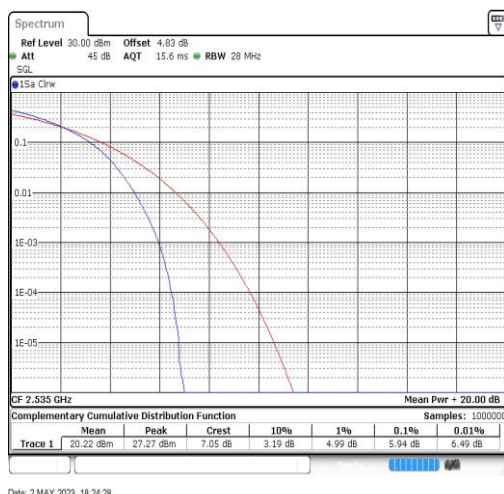
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Date: 2 MAY 2023 18:24:11

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



Date: 2 MAY 2023 18:24:28

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



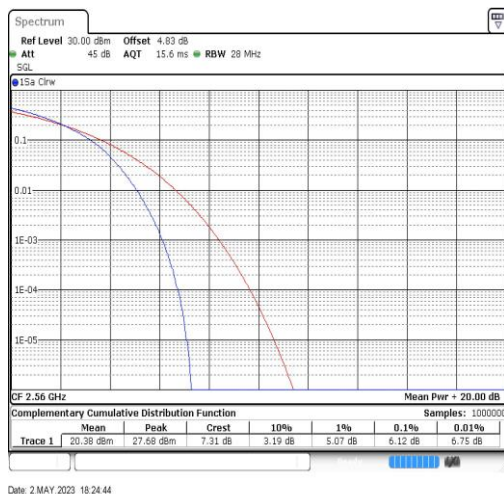
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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	4.476	4.90	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.476	4.91	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.476	4.90	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.466	4.91	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.466	4.96	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.466	4.95	PASS
Band7	5MHz	64QAM	20775	25RB#0	4.476	4.93	PASS
Band7	5MHz	64QAM	21100	25RB#0	4.476	4.92	PASS
Band7	5MHz	64QAM	21425	25RB#0	4.486	4.93	PASS
Band7	10MHz	QPSK	20800	50RB#0	8.931	9.64	PASS
Band7	10MHz	QPSK	21100	50RB#0	8.931	9.70	PASS
Band7	10MHz	QPSK	21400	50RB#0	8.911	9.64	PASS
Band7	10MHz	16QAM	20800	50RB#0	8.911	9.64	PASS
Band7	10MHz	16QAM	21100	50RB#0	8.911	9.68	PASS
Band7	10MHz	16QAM	21400	50RB#0	8.911	9.64	PASS
Band7	10MHz	64QAM	20800	50RB#0	8.931	9.70	PASS
Band7	10MHz	64QAM	21100	50RB#0	8.931	9.68	PASS
Band7	10MHz	64QAM	21400	50RB#0	8.931	9.66	PASS
Band7	15MHz	QPSK	20825	75RB#0	13.487	14.76	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.487	14.76	PASS
Band7	15MHz	QPSK	21375	75RB#0	13.487	14.79	PASS
Band7	15MHz	16QAM	20825	75RB#0	13.457	14.79	PASS
Band7	15MHz	16QAM	21100	75RB#0	13.487	14.76	PASS
Band7	15MHz	16QAM	21375	75RB#0	13.457	14.76	PASS
Band7	15MHz	64QAM	20825	75RB#0	13.457	14.82	PASS
Band7	15MHz	64QAM	21100	75RB#0	13.397	14.79	PASS
Band7	15MHz	64QAM	21375	75RB#0	13.427	14.79	PASS
Band7	20MHz	QPSK	20850	100RB#0	17.982	19.36	PASS



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Report No.: ZEWM2310001500RG02

Page: 13 of 55

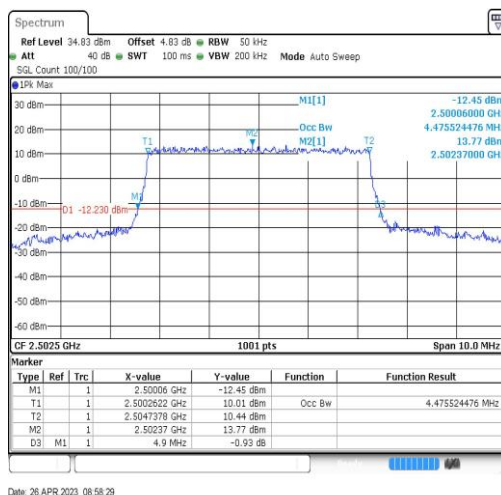
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Band7	20MHz	16QAM	20850	100RB#0	17.942	19.32	PASS
Band7	20MHz	16QAM	21100	100RB#0	17.902	19.40	PASS
Band7	20MHz	16QAM	21350	100RB#0	17.862	19.40	PASS
Band7	20MHz	64QAM	20850	100RB#0	17.862	19.48	PASS
Band7	20MHz	64QAM	21100	100RB#0	17.862	19.36	PASS
Band7	20MHz	64QAM	21350	100RB#0	17.862	19.32	PASS



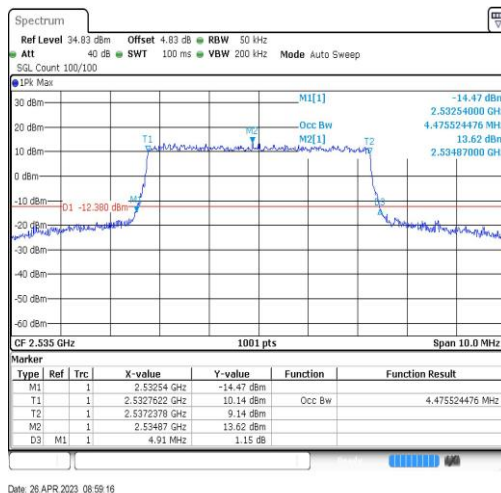
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Test Graphs



Band7-5MHz-QPSK-20775-25RB#0-4.476



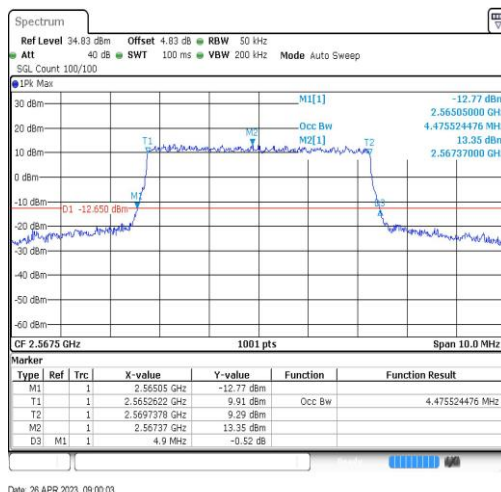
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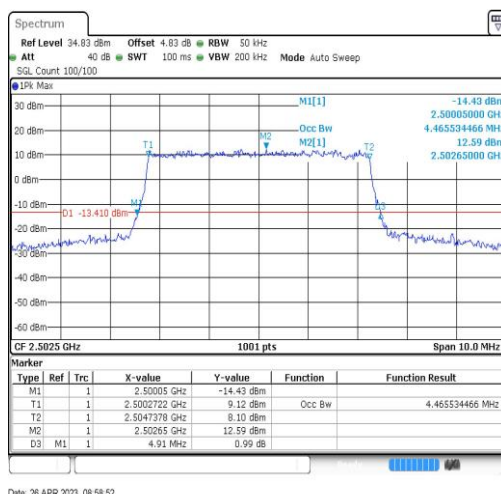
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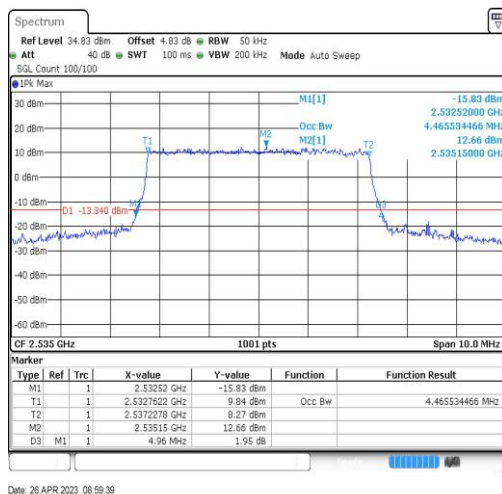
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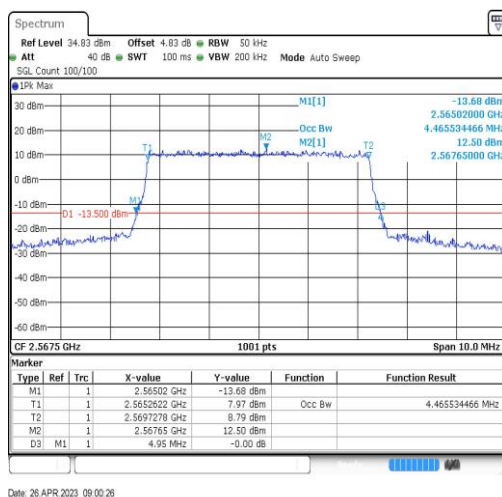
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Band7-5MHz-16QAM-20775-25RB#0-4.466



Band7-5MHz-16QAM-21100-25RB#0-4.466



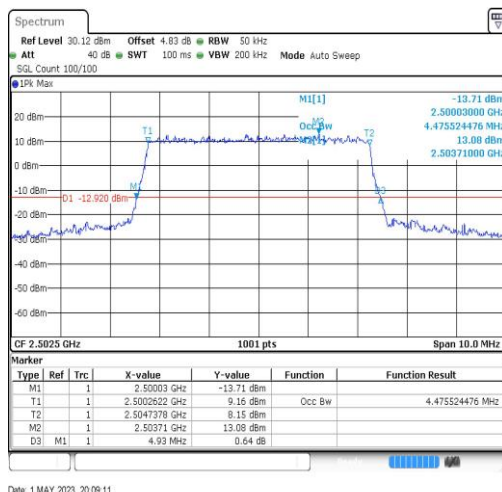
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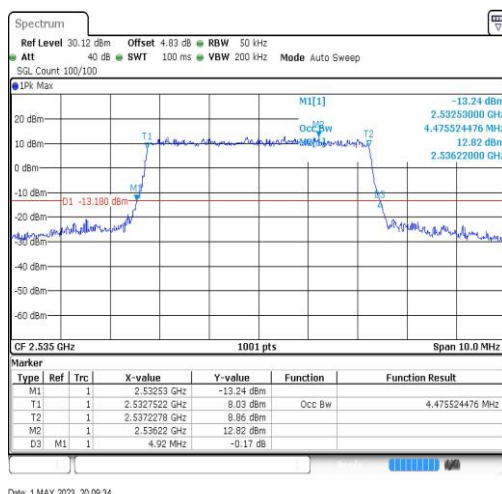
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Band7-5MHz-64QAM-20775-25RB#0-4.476



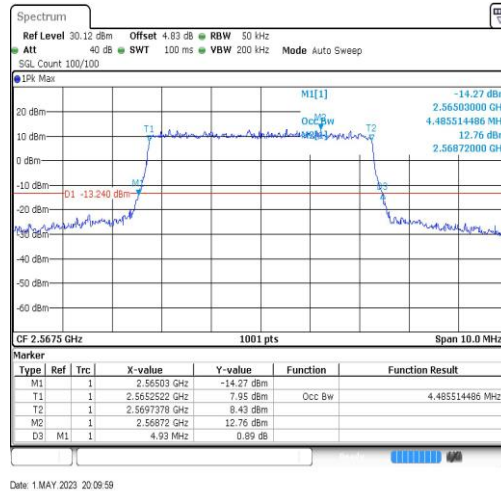
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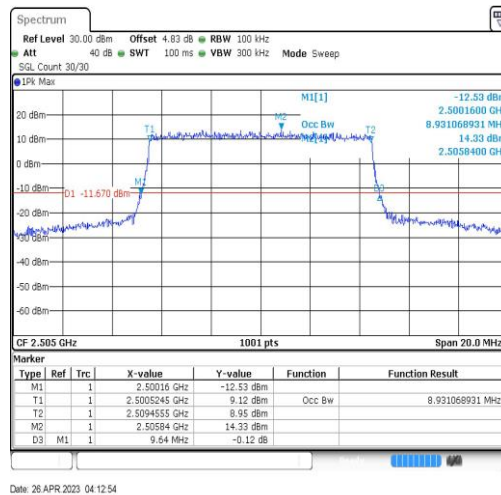
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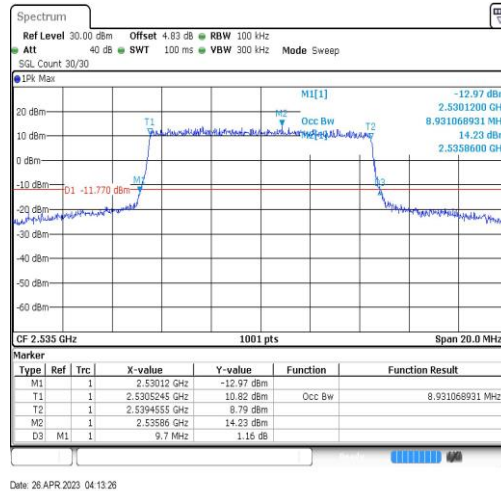
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Band7-5MHz-64QAM-21425-25RB#0-4.486

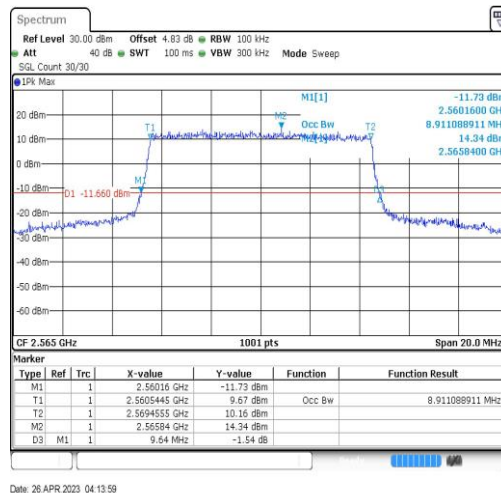


Band7-10MHz-QPSK-20800-50RB#0-8.931



Date: 26 APR 2023 04:13:26

Band7-10MHz-QPSK-21100-50RB#0-8.931



Date: 26 APR 2023 04:13:59

Band7-10MHz-QPSK-21400-50RB#0-8.911

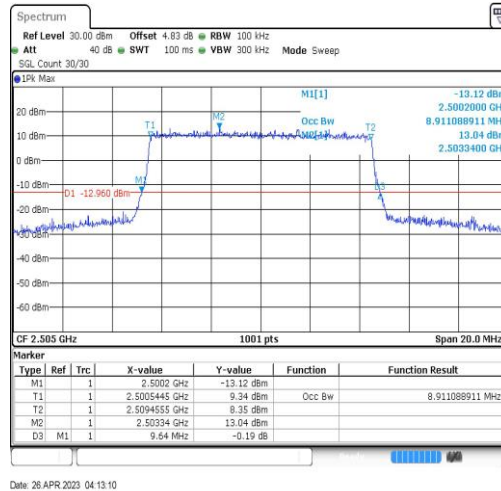


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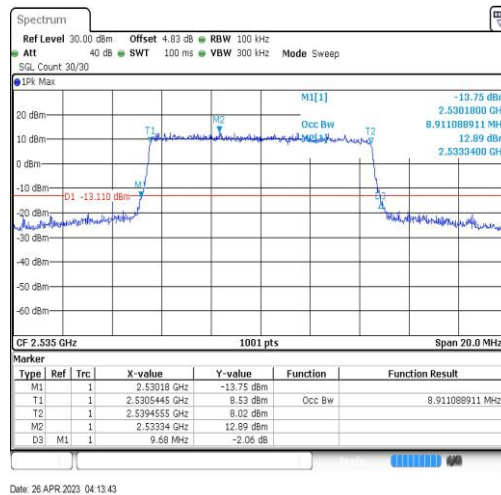
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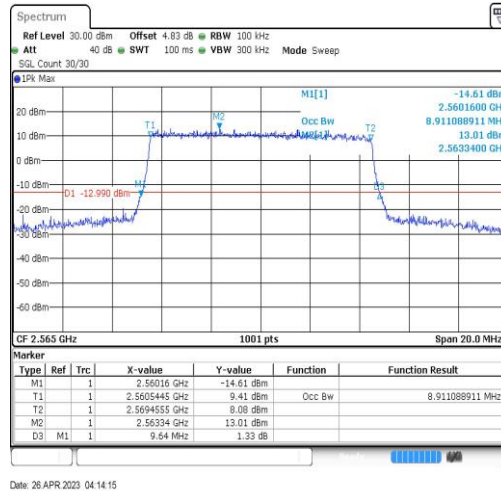


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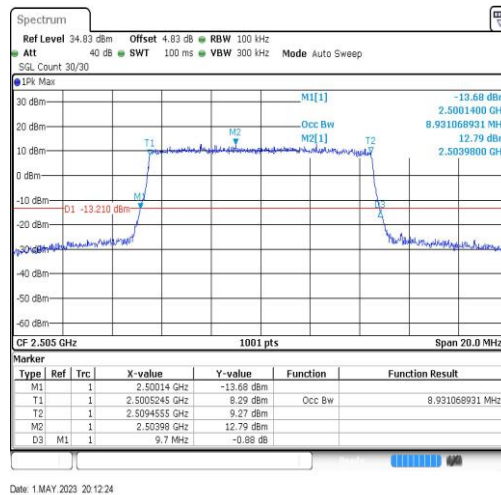


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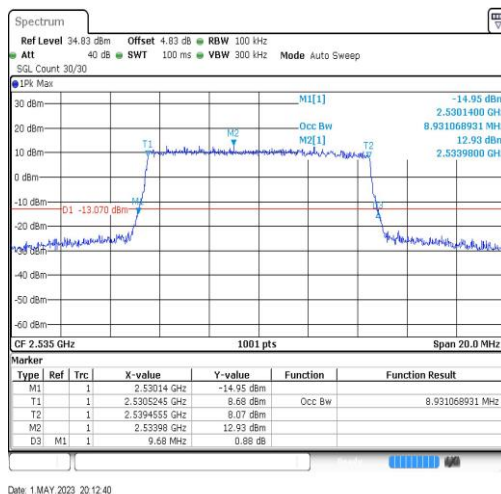




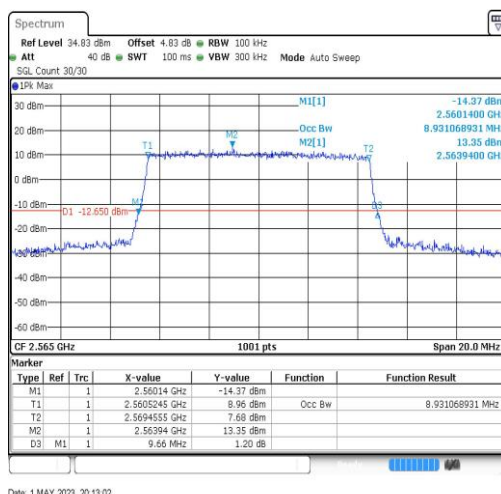
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Band7-10MHz-64QAM-20800-50RB#0-8.931



Band7-10MHz-64QAM-21100-50RB#0-8.931



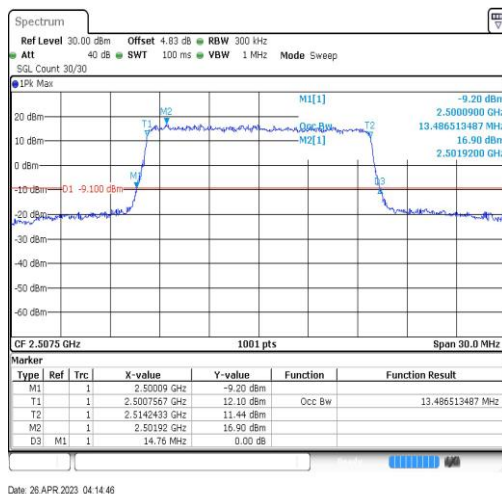
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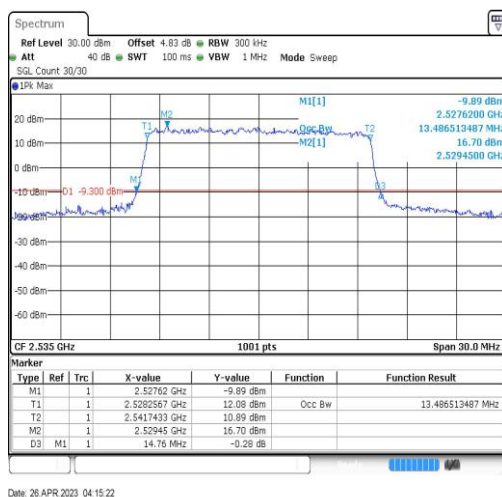
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Band7-15MHz-QPSK-20825-75RB#0-13.487

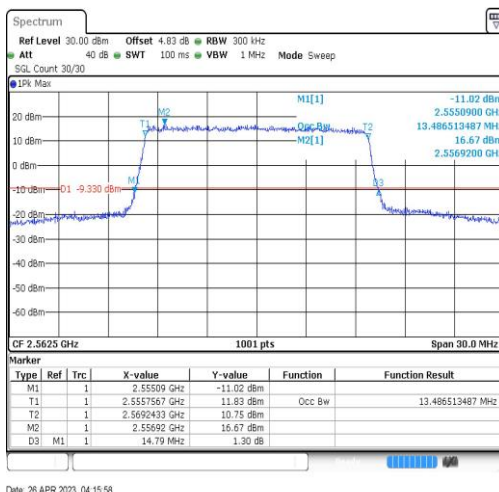


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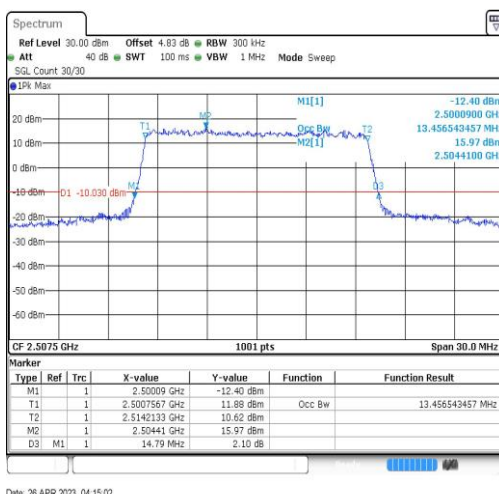


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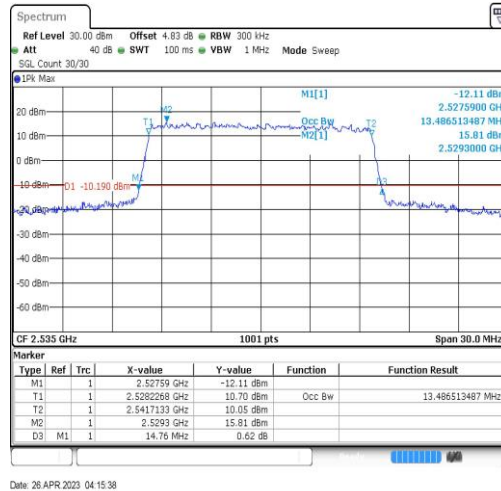
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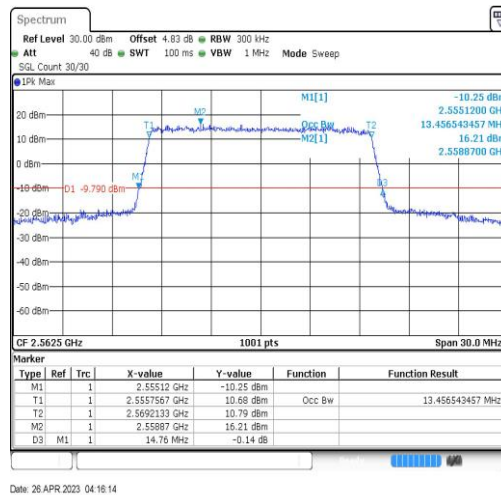
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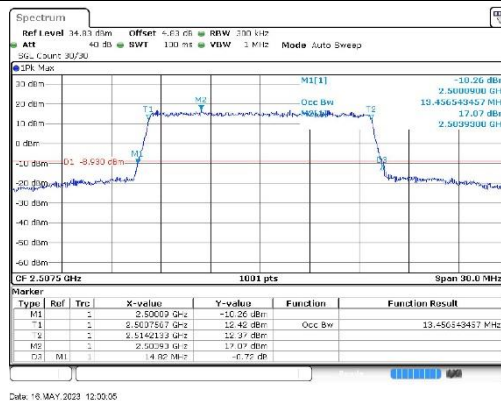
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Band7-15MHz-64QAM-20825-75RB#0-13.546



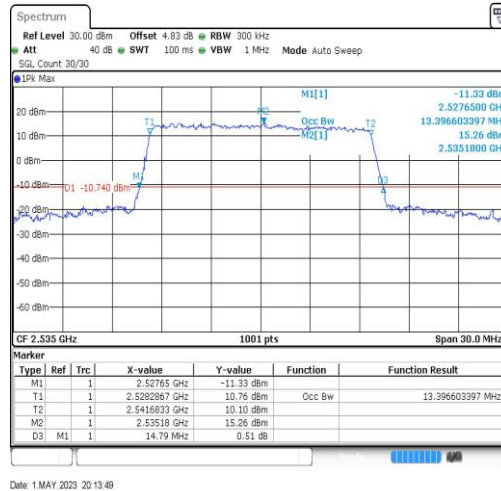
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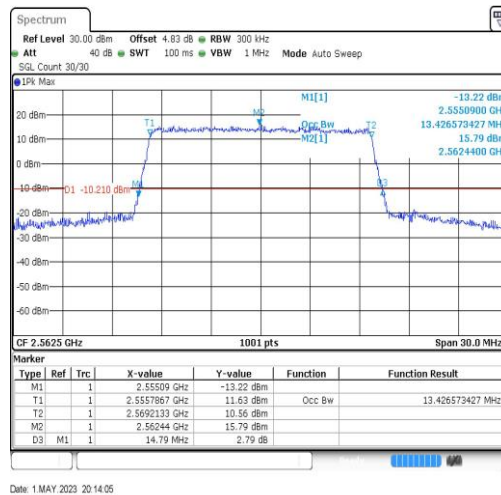
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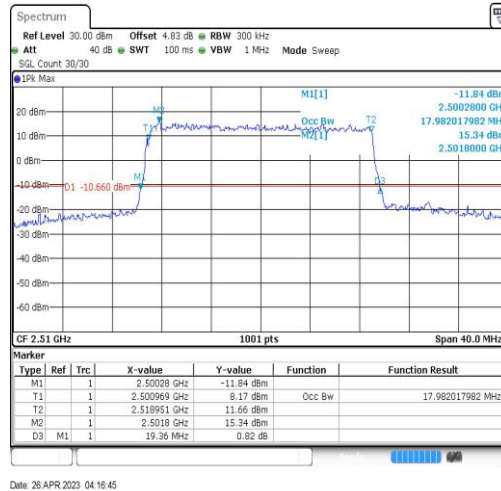
Member of the SGS Group (SGS SA)



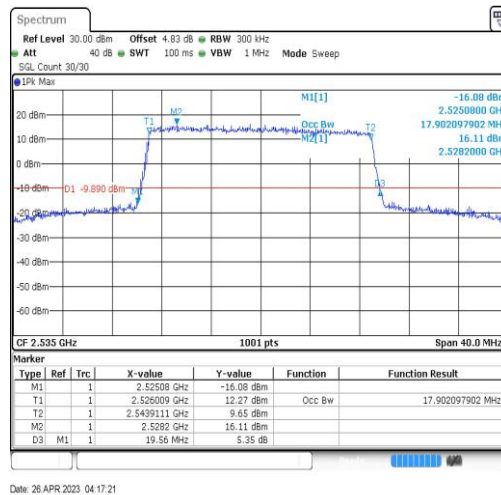
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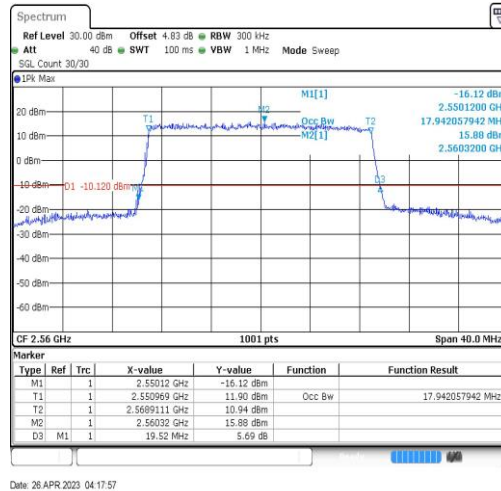


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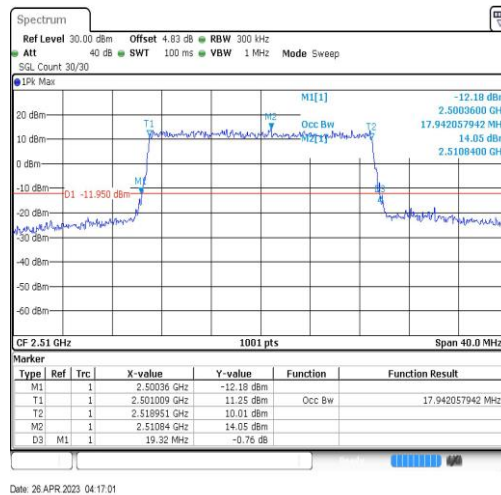


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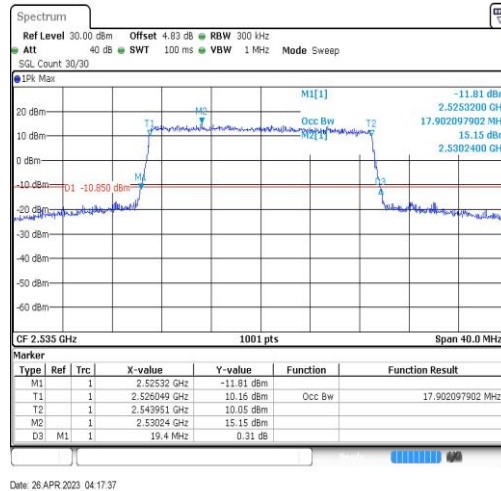




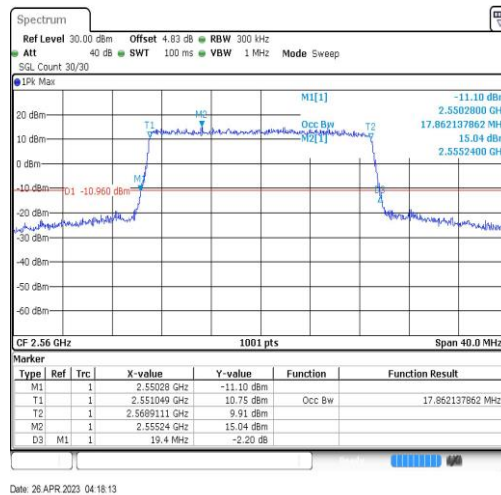
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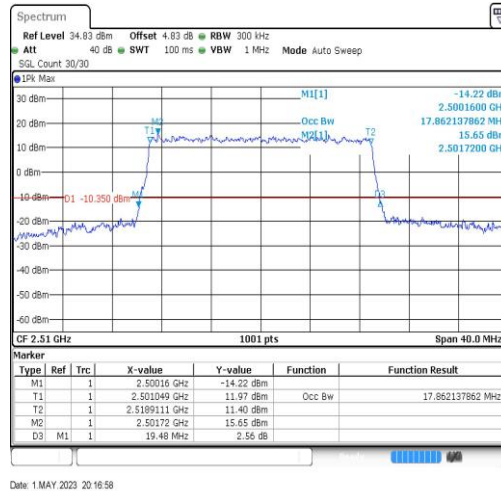


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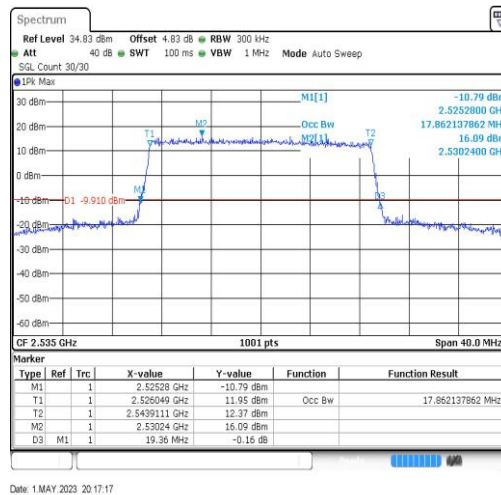


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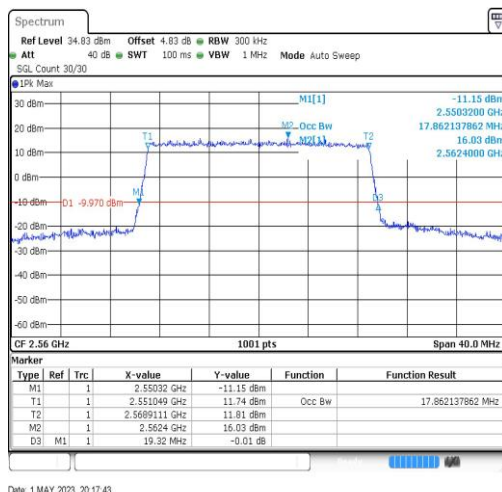


Band7-20MHz-64QAM-20850-100RB#0-17.862



Band7-20MHz-64QAM-21100-100RB#0-17.862





Band7-20MHz-64QAM-21350-100RB#0-17.862

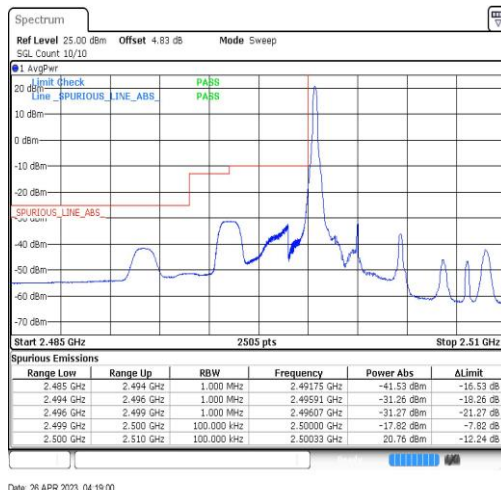


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Band Edge

Test Graphs

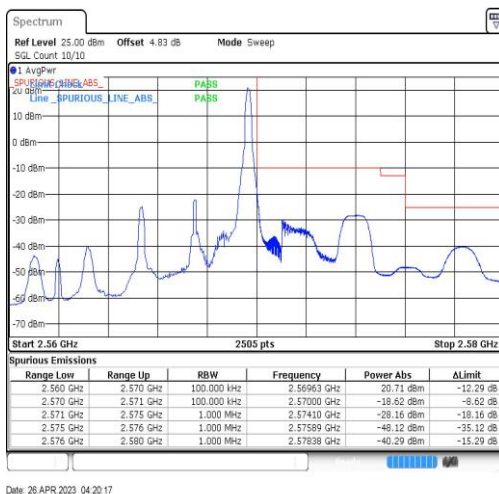


Band7-5MHz-QPSK-20775-1RB#0



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

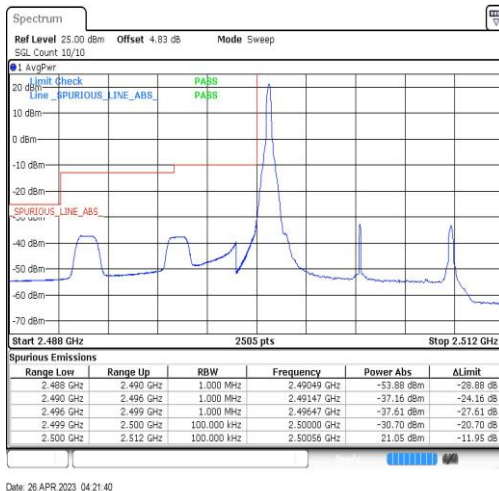




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Band7-5MHz-QPSK-21425-25RB#0



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



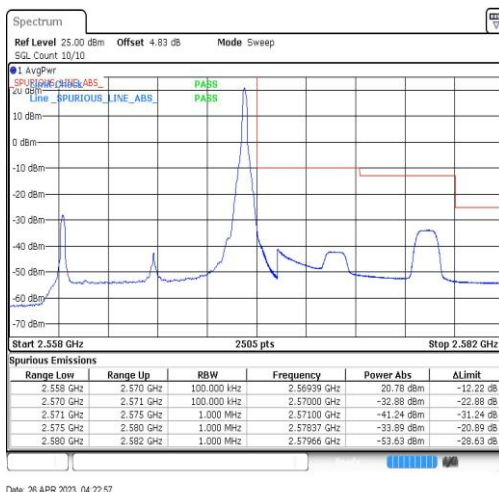
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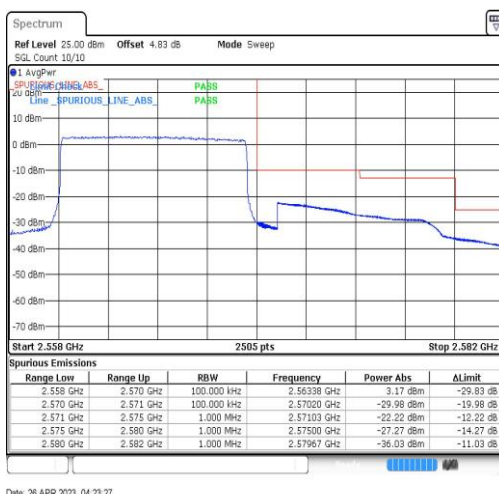
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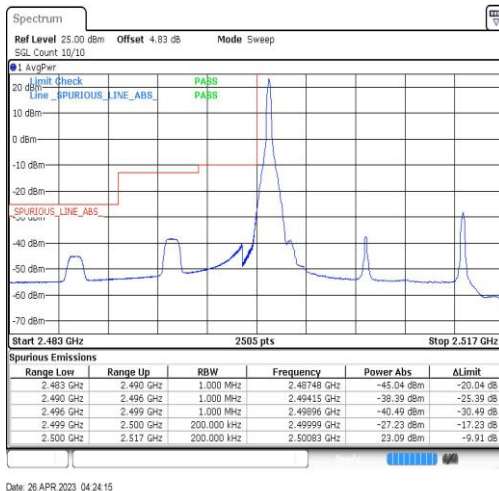
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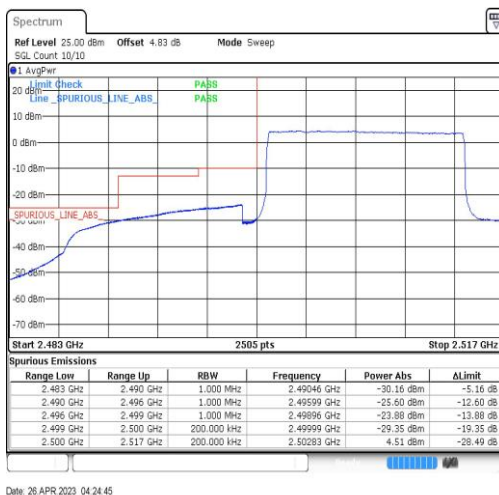
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Band7-10MHz-QPSK-21400-50RB#0



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



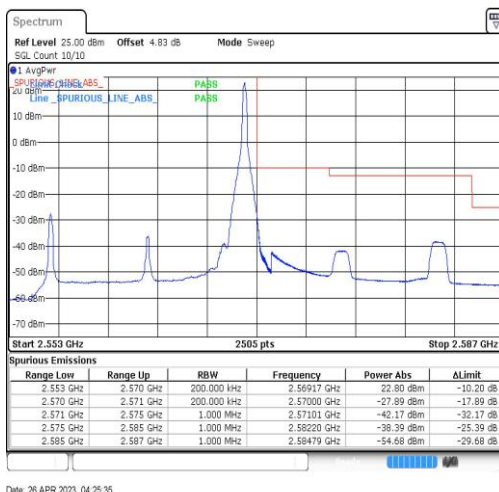
Band7-15MHz-QPSK-20825-75RB#0



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



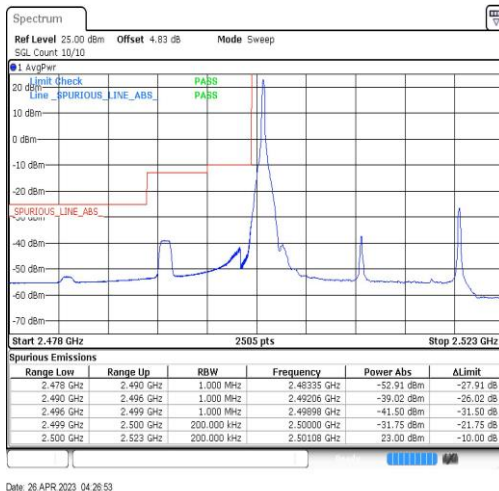
Band7-15MHz-QPSK-21375-75RB#0



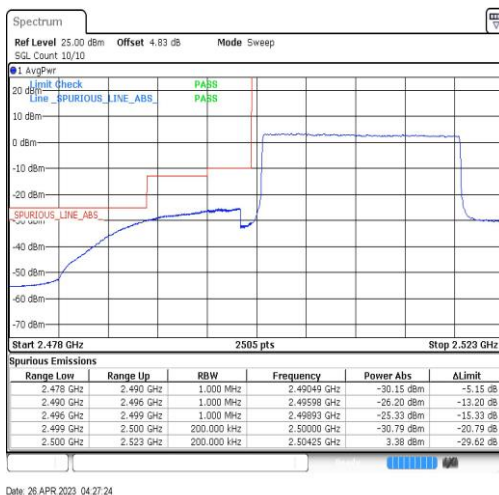
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Band7-20MHz-QPSK-20850-1RB#0



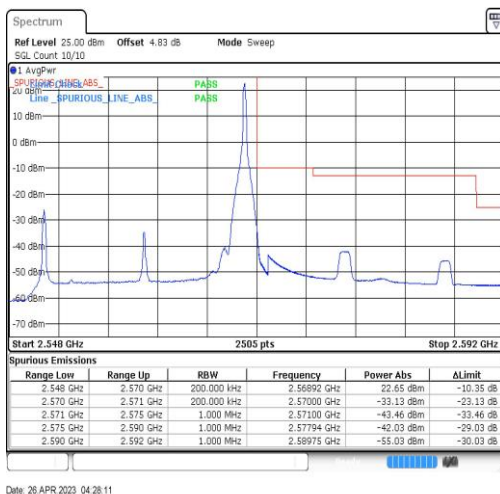
Band7-20MHz-QPSK-20850-100RB#0



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

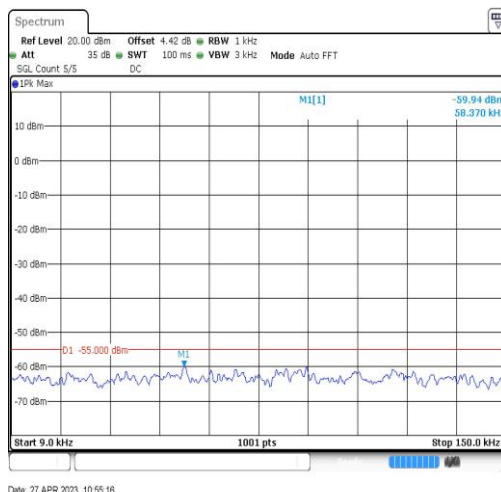


Band7-20MHz-QPSK-21350-100RB#0

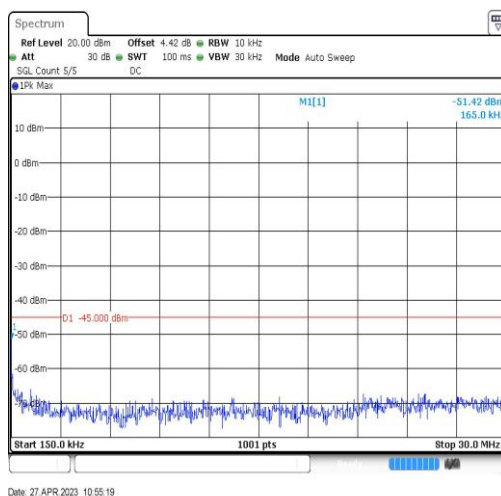


Conducted Spurious Emission

Test Graphs



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



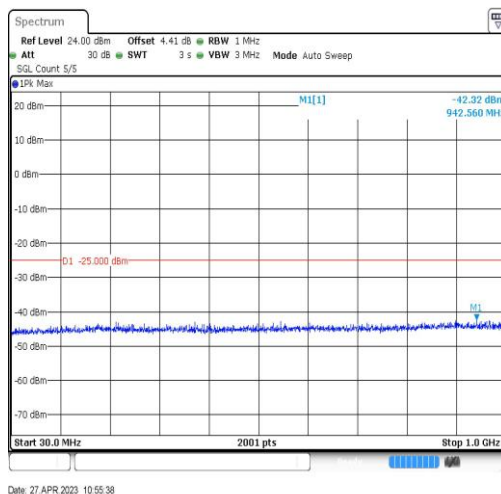
Band7-20MHz-QPSK-20850-1RB#0-Range2:0.15~30MHz



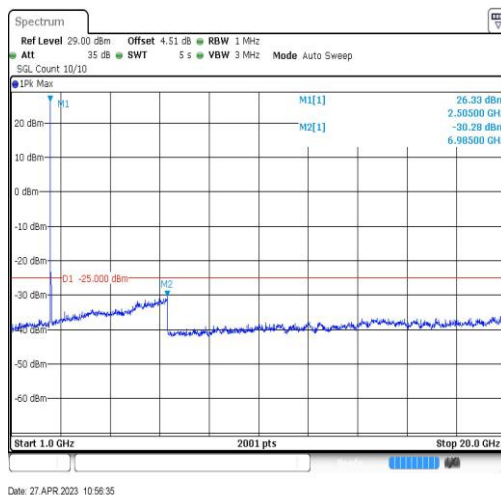
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Band7-20MHz-QPSK-20850-1RB#0-Range3:30~1000MHz



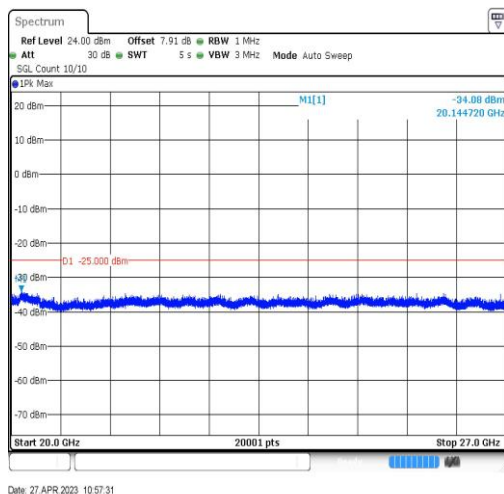
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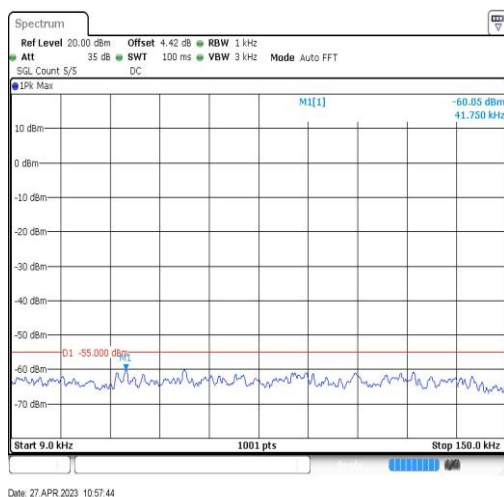
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Band7-20MHz-QPSK-20850-1RB#0-Range5:20000~27000MHz



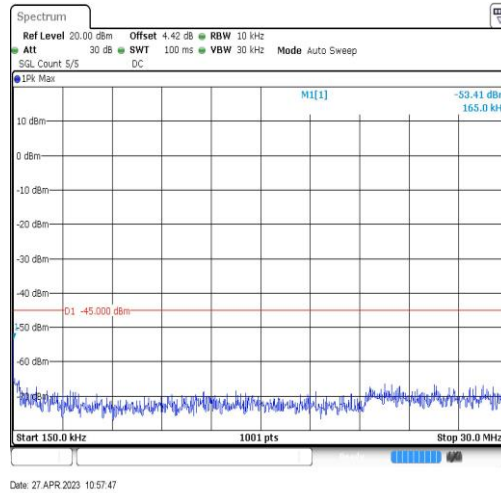
Band7-20MHz-QPSK-21100-1RB#0-Range1:0.009~0.15MHz



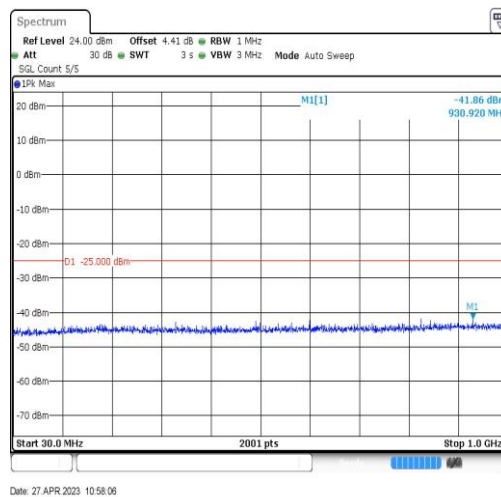
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Band7-20MHz-QPSK-21100-1RB#0-Range2:0.15~30MHz

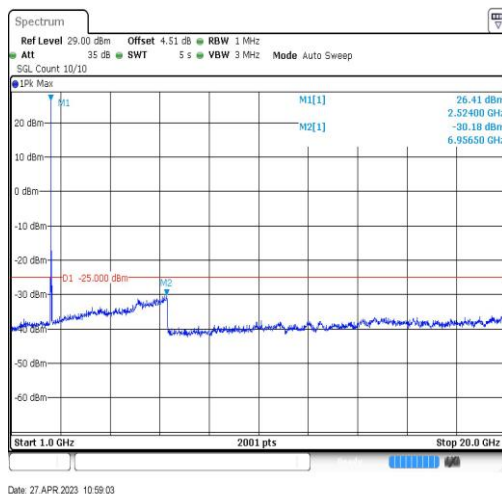


Band7-20MHz-QPSK-21100-1RB#0-Range3:30~1000MHz

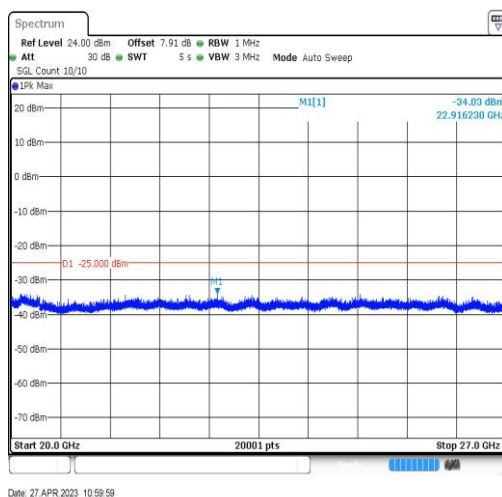


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Band7-20MHz-QPSK-21100-1RB#0-Range4:1000~20000MHz



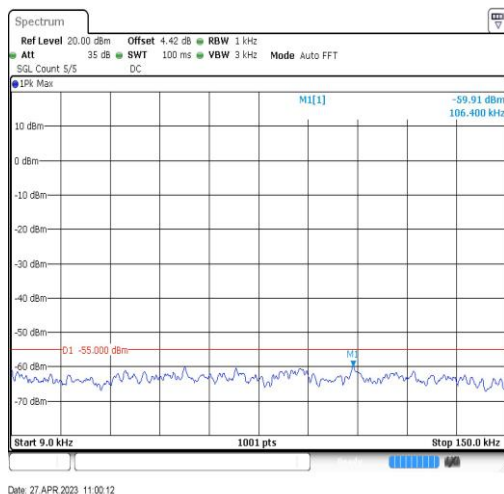
Band7-20MHz-QPSK-21100-1RB#0-Range5:20000~27000MHz



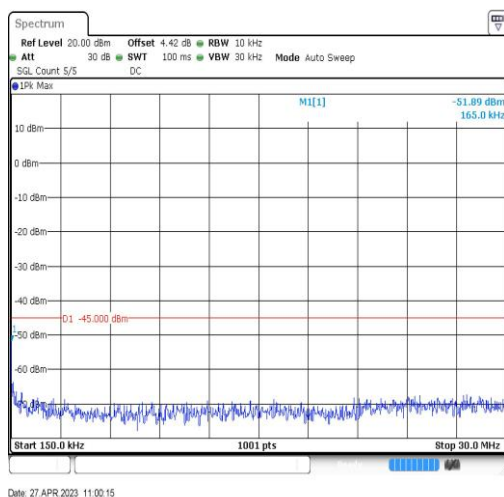
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Band7-20MHz-QPSK-21350-1RB#0-Range1:0.009~0.15MHz



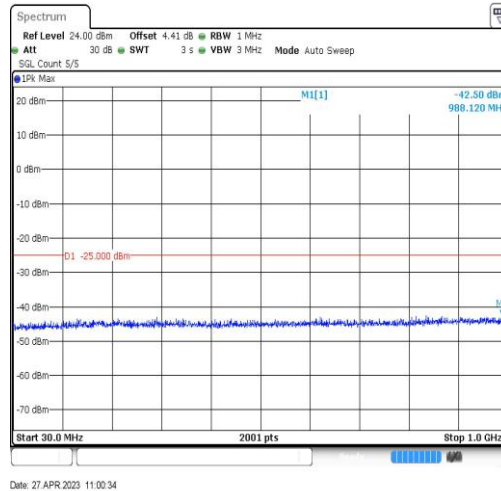
Band7-20MHz-QPSK-21350-1RB#0-Range2:0.15~30MHz



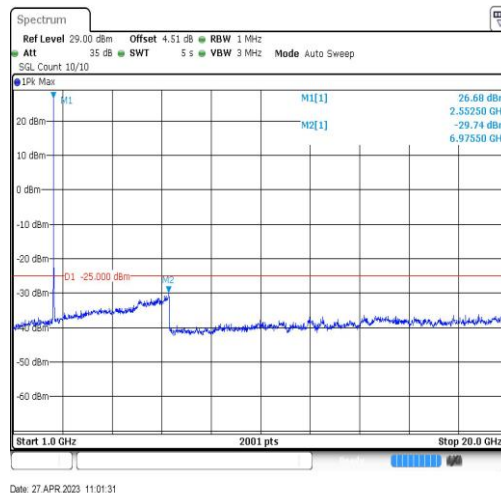
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Band7-20MHz-QPSK-21350-1RB#0-Range3:30~1000MHz

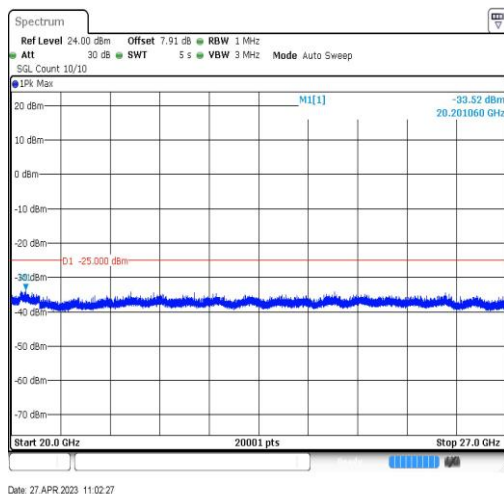


Band7-20MHz-QPSK-21350-1RB#0-Range4:1000~20000MHz



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Date: 27 APR 2023 11:02:27

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



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Field Strength of Spurious Radiation

Test Band = LTE_7 ANT 13 _20MHz _TM1

Test Channel = LCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3907.5454	48.45	-44.20	29.73	-61.28	-25.00	36.28	146	98	Horizontal
2	5739.887	47.76	-41.26	32.50	-56.26	-25.00	31.26	158	0	Horizontal
3	7438.7219	46.04	-38.28	36.78	-50.72	-25.00	25.72	294	22	Horizontal
4	9913.8457	44.60	-35.32	38.61	-47.37	-25.00	22.37	165	286	Horizontal
5	10975.8988	45.50	-37.09	40.12	-46.73	-25.00	21.73	264	342	Horizontal
6	15196.3598	46.13	-35.43	39.72	-44.84	-25.00	19.84	226	250	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3910.5455	48.53	-44.20	29.74	-61.19	-25.00	36.19	246	114	Vertical
2	5904.1452	47.39	-41.12	32.81	-56.18	-25.00	31.18	166	53	Vertical
3	7505.4753	46.26	-38.32	36.85	-50.47	-25.00	25.47	235	166	Vertical
4	10969.1485	45.48	-37.12	40.13	-46.77	-25.00	21.77	226	22	Vertical
5	13567.2784	45.81	-37.89	40.03	-47.31	-25.00	22.31	346	218	Vertical
6	15199.36	46.14	-35.32	39.70	-44.74	-25.00	19.74	310	194	Vertical



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Test Band = LTE_7 ANT 13 _20MHz _TM1

Test Channel = MCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4011.8006	48.74	-44.18	29.75	-60.95	-25.00	35.95	177	225	Horizontal
2	5700.885	47.72	-41.14	32.50	-56.18	-25.00	31.18	205	334	Horizontal
3	7869.2435	45.79	-37.61	36.68	-50.40	-25.00	25.40	264	274	Horizontal
4	11007.4004	45.56	-37.03	40.11	-46.62	-25.00	21.62	165	358	Horizontal
5	13694.0347	45.63	-38.00	40.19	-47.44	-25.00	22.44	119	294	Horizontal
6	15203.8602	46.20	-35.33	39.71	-44.68	-25.00	19.68	263	266	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3887.2944	48.68	-44.29	29.70	-61.17	-25.00	36.17	178	266	Vertical
2	5686.6343	47.96	-41.18	32.50	-55.98	-25.00	30.98	256	178	Vertical
3	7507.7254	45.95	-38.33	36.82	-50.82	-25.00	25.82	246	242	Vertical
4	9916.0958	44.68	-35.38	38.62	-47.34	-25.00	22.34	199	178	Vertical
5	11033.6517	45.74	-37.19	40.13	-46.58	-25.00	21.58	126	251	Vertical
6	16568.9284	46.44	-35.43	39.44	-44.81	-25.00	19.81	194	13	Vertical



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Test Band = LTE_7 ANT 13 _20MHz _TM1

Test Channel = HCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4003.5502	48.52	-44.17	29.79	-61.12	-25.00	36.12	105	121	Horizontal
2	5711.3856	47.84	-41.17	32.50	-56.09	-25.00	31.09	166	330	Horizontal
3	7744.7372	46.48	-37.71	36.44	-50.05	-25.00	25.05	236	25	Horizontal
4	9895.8448	44.12	-34.99	38.57	-47.56	-25.00	22.56	180	98	Horizontal
5	10958.6479	45.64	-37.17	40.14	-46.65	-25.00	21.65	248	114	Horizontal
6	15203.8602	46.13	-35.33	39.71	-44.75	-25.00	19.75	157	37	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3969.0485	48.35	-44.18	29.86	-61.23	-25.00	36.23	176	117	Vertical
2	5886.8943	47.91	-41.15	32.75	-55.75	-25.00	30.75	225	152	Vertical
3	7434.9717	46.22	-38.28	36.77	-50.55	-25.00	25.55	236	233	Vertical
4	9905.5953	44.53	-35.11	38.61	-47.23	-25.00	22.23	266	278	Vertical
5	11029.9015	45.33	-37.16	40.13	-46.96	-25.00	21.96	231	286	Vertical
6	16598.9299	46.16	-35.34	39.50	-44.94	-25.00	19.94	294	172	Vertical



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Test Band = LTE_ 7 ANT 31 _20MHz _TM1

Test Channel = LCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3734.2867	48.37	-44.65	29.51	-62.03	-25.00	37.03	142	96	Horizontal
2	5701.6351	47.28	-41.14	32.50	-56.62	-25.00	31.62	304	76	Horizontal
3	7921.7461	45.36	-37.43	36.46	-50.87	-25.00	25.87	284	282	Horizontal
4	9510.3255	45.45	-35.97	37.80	-47.98	-25.00	22.98	116	239	Horizontal
5	10964.6482	44.74	-37.14	40.14	-47.52	-25.00	22.52	269	191	Horizontal
6	15209.1105	46.00	-35.37	39.72	-44.91	-25.00	19.91	225	306	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4263.8132	47.49	-43.47	29.72	-61.52	-25.00	36.52	204	333	Vertical
2	5681.3841	47.31	-41.20	32.50	-56.65	-25.00	31.65	159	18	Vertical
3	7503.2252	45.59	-38.31	36.87	-51.11	-25.00	26.11	264	266	Vertical
4	9461.5731	45.66	-35.77	37.57	-47.80	-25.00	22.80	231	61	Vertical
5	11017.1509	44.83	-37.08	40.12	-47.39	-25.00	22.39	258	234	Vertical
6	15199.36	45.72	-35.32	39.70	-45.16	-25.00	20.16	211	301	Vertical



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Test Band = LTE_7 ANT 31_20MHz_TM1

Test Channel = MCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2995.5991	47.26	-30.46	28.57	-49.89	-25.00	24.89	195	253	Horizontal
2	3984.0492	47.72	-44.17	29.83	-61.88	-25.00	36.88	370	187	Horizontal
3	6143.4072	46.53	-40.65	33.31	-56.07	-25.00	31.07	273	203	Horizontal
4	9461.5731	45.53	-35.77	37.57	-47.93	-25.00	22.93	254	33	Horizontal
5	15179.859	46.39	-36.08	39.82	-45.13	-25.00	20.13	225	26	Horizontal
6	18000	45.63	-43.04	48.20	-44.47	-25.00	19.47	216	2	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2996.7994	47.39	-30.45	28.58	-49.74	-25.00	24.74	374	78	Vertical
2	4350.0675	47.48	-43.41	29.90	-61.29	-25.00	36.29	246	164	Vertical
3	5630.3815	46.99	-41.35	32.54	-57.08	-25.00	32.08	165	144	Vertical
4	7578.2289	49.06	-38.70	36.63	-48.27	-25.00	23.27	226	267	Vertical
5	11095.9048	45.15	-37.57	40.20	-47.48	-25.00	22.48	254	236	Vertical
6	17996.2498	45.61	-43.07	48.13	-44.59	-25.00	19.59	168	299	Vertical



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Test Band = LTE_7 ANT 31_20MHz_TM1

Test Channel = HCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3880.544	48.08	-44.34	29.70	-61.82	-25.00	36.82	290	267	Horizontal
2	6171.9086	46.67	-40.73	33.39	-55.93	-25.00	30.93	262	259	Horizontal
3	9515.5758	45.66	-35.95	37.80	-47.75	-25.00	22.75	158	346	Horizontal
4	11100.405	45.54	-37.60	40.20	-47.12	-25.00	22.12	225	22	Horizontal
5	15184.3592	46.26	-35.90	39.79	-45.11	-25.00	20.11	211	203	Horizontal
6	18000	45.70	-43.04	48.20	-44.40	-25.00	19.40	286	152	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2995.9992	47.29	-30.46	28.58	-49.85	-25.00	24.85	213	77	Vertical
2	4268.3134	47.77	-43.46	29.69	-61.26	-25.00	36.26	189	149	Vertical
3	5706.8853	47.54	-41.16	32.50	-56.38	-25.00	31.38	254	327	Vertical
4	7653.2327	46.51	-38.14	36.61	-50.28	-25.00	25.28	166	267	Vertical
5	10958.6479	44.94	-37.17	40.14	-47.35	-25.00	22.35	260	256	Vertical
6	15175.3588	46.96	-36.26	39.85	-44.71	-25.00	19.71	294	74	Vertical



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Test on the worst case:

Test Band = _LTE Band 7 ANT31_20MHz _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	1308.2565	36.33	-19.53	25.65	-52.81	-25.00	27.81	Horizontal
2	3864.6346	53.04	-49.54	30.46	-61.30	-25.00	36.30	Horizontal
3	5691.1076	51.45	-44.81	33.46	-55.16	-25.00	30.16	Horizontal
4	9503.6601	49.05	-41.52	39.19	-48.54	-25.00	23.54	Horizontal
5	15692.9077	47.28	-39.97	39.11	-48.84	-25.00	23.84	Horizontal
6	17999.4	49.20	-44.18	42.80	-47.44	-25.00	22.44	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1407.8231	36.33	-19.29	25.78	-52.44	-25.00	27.44	Vertical
2	4198.848	52.67	-48.53	31.49	-59.63	-25.00	34.63	Vertical
3	5712.1085	51.92	-45.02	33.60	-54.76	-25.00	29.76	Vertical
4	9445.4578	49.32	-41.34	38.97	-48.31	-25.00	23.31	Vertical
5	15806.9123	47.51	-39.83	39.34	-48.24	-25.00	23.24	Vertical
6	17933.3973	48.51	-42.98	42.40	-47.33	-25.00	22.33	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	VN	NT	-4.40	-0.001736	PASS
Band7	20MHz	QPSK	21100	100RB#0	VL	NT	-3.10	-0.001223	PASS
Band7	20MHz	QPSK	21100	100RB#0	VH	NT	-3.90	-0.001538	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	-4.70	-0.001854	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-20	-3.50	-0.001381	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-10	-4.50	-0.001775	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	0	-3.00	-0.001183	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	10	0.20	0.000079	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	20	-3.90	-0.001538	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	30	-1.60	-0.000631	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	40	-2.70	-0.001065	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	50	-0.80	-0.000316	PASS

---End of Attachment---



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