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# Appendix B.5

## LTE Band 7



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## Effective (Isotropic) Radiated Power Output Data

## Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	23.61	27.61	33	PASS
Band7	5MHz	QPSK	20775	1RB#12	23.65	27.65	33	PASS
Band7	5MHz	QPSK	20775	1RB#24	23.67	27.67	33	PASS
Band7	5MHz	QPSK	20775	25RB#0	23.24	27.24	33	PASS
Band7	5MHz	QPSK	21100	1RB#0	23.76	27.76	33	PASS
Band7	5MHz	QPSK	21100	1RB#12	23.79	27.79	33	PASS
Band7	5MHz	QPSK	21100	1RB#24	23.78	27.78	33	PASS
Band7	5MHz	QPSK	21100	25RB#0	23.45	27.45	33	PASS
Band7	5MHz	QPSK	21425	1RB#0	23.59	27.59	33	PASS
Band7	5MHz	QPSK	21425	1RB#12	23.64	27.64	33	PASS
Band7	5MHz	QPSK	21425	1RB#24	23.63	27.63	33	PASS
Band7	5MHz	QPSK	21425	25RB#0	23.35	27.35	33	PASS
Band7	5MHz	16QAM	20775	1RB#0	22.77	26.77	33	PASS
Band7	5MHz	16QAM	20775	1RB#12	22.89	26.89	33	PASS
Band7	5MHz	16QAM	20775	1RB#24	22.86	26.86	33	PASS
Band7	5MHz	16QAM	20775	25RB#0	21.73	25.73	33	PASS
Band7	5MHz	16QAM	21100	1RB#0	23.04	27.04	33	PASS
Band7	5MHz	16QAM	21100	1RB#12	23.08	27.08	33	PASS
Band7	5MHz	16QAM	21100	1RB#24	22.95	26.95	33	PASS
Band7	5MHz	16QAM	21100	25RB#0	21.83	25.83	33	PASS
Band7	5MHz	16QAM	21425	1RB#0	22.92	26.92	33	PASS
Band7	5MHz	16QAM	21425	1RB#12	22.92	26.92	33	PASS
Band7	5MHz	16QAM	21425	1RB#24	22.91	26.91	33	PASS
Band7	5MHz	16QAM	21425	25RB#0	21.68	25.68	33	PASS
Band7	5MHz	64QAM	20775	1RB#0	21.71	25.71	33	PASS
Band7	5MHz	64QAM	20775	1RB#12	21.79	25.79	33	PASS



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Band7	5MHz	64QAM	20775	1RB#24	21.79	25.79	33	PASS
Band7	5MHz	64QAM	20775	25RB#0	20.73	24.73	33	PASS
Band7	5MHz	64QAM	21100	1RB#0	22.02	26.02	33	PASS
Band7	5MHz	64QAM	21100	1RB#12	21.99	25.99	33	PASS
Band7	5MHz	64QAM	21100	1RB#24	21.94	25.94	33	PASS
Band7	5MHz	64QAM	21100	25RB#0	20.81	24.81	33	PASS
Band7	5MHz	64QAM	21425	1RB#0	21.71	25.71	33	PASS
Band7	5MHz	64QAM	21425	1RB#12	21.8	25.8	33	PASS
Band7	5MHz	64QAM	21425	1RB#24	21.76	25.76	33	PASS
Band7	5MHz	64QAM	21425	25RB#0	20.65	24.65	33	PASS
Band7	10MHz	QPSK	20800	1RB#0	23.63	27.63	33	PASS
Band7	10MHz	QPSK	20800	1RB#24	23.64	27.64	33	PASS
Band7	10MHz	QPSK	20800	1RB#49	23.64	27.64	33	PASS
Band7	10MHz	QPSK	20800	50RB#0	23.24	27.24	33	PASS
Band7	10MHz	QPSK	21100	1RB#0	23.83	27.83	33	PASS
Band7	10MHz	QPSK	21100	1RB#24	23.74	27.74	33	PASS
Band7	10MHz	QPSK	21100	1RB#49	23.8	27.8	33	PASS
Band7	10MHz	QPSK	21100	50RB#0	23.5	27.5	33	PASS
Band7	10MHz	QPSK	21400	1RB#0	23.72	27.72	33	PASS
Band7	10MHz	QPSK	21400	1RB#24	23.59	27.59	33	PASS
Band7	10MHz	QPSK	21400	1RB#49	23.68	27.68	33	PASS
Band7	10MHz	QPSK	21400	50RB#0	23.42	27.42	33	PASS
Band7	10MHz	16QAM	20800	1RB#0	22.81	26.81	33	PASS
Band7	10MHz	16QAM	20800	1RB#24	22.97	26.97	33	PASS
Band7	10MHz	16QAM	20800	1RB#49	22.91	26.91	33	PASS
Band7	10MHz	16QAM	20800	50RB#0	21.73	25.73	33	PASS
Band7	10MHz	16QAM	21100	1RB#0	23.07	27.07	33	PASS
Band7	10MHz	16QAM	21100	1RB#24	23.01	27.01	33	PASS
Band7	10MHz	16QAM	21100	1RB#49	23.08	27.08	33	PASS
Band7	10MHz	16QAM	21100	50RB#0	21.86	25.86	33	PASS
Band7	10MHz	16QAM	21400	1RB#0	22.89	26.89	33	PASS
Band7	10MHz	16QAM	21400	1RB#24	22.84	26.84	33	PASS
Band7	10MHz	16QAM	21400	1RB#49	22.91	26.91	33	PASS



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Band7	10MHz	16QAM	21400	50RB#0	21.79	25.79	33	PASS
Band7	10MHz	64QAM	20800	1RB#0	21.91	25.91	33	PASS
Band7	10MHz	64QAM	20800	1RB#24	21.83	25.83	33	PASS
Band7	10MHz	64QAM	20800	1RB#49	21.79	25.79	33	PASS
Band7	10MHz	64QAM	20800	50RB#0	20.72	24.72	33	PASS
Band7	10MHz	64QAM	21100	1RB#0	22.04	26.04	33	PASS
Band7	10MHz	64QAM	21100	1RB#24	21.97	25.97	33	PASS
Band7	10MHz	64QAM	21100	1RB#49	21.93	25.93	33	PASS
Band7	10MHz	64QAM	21100	50RB#0	20.83	24.83	33	PASS
Band7	10MHz	64QAM	21400	1RB#0	21.83	25.83	33	PASS
Band7	10MHz	64QAM	21400	1RB#24	21.69	25.69	33	PASS
Band7	10MHz	64QAM	21400	1RB#49	21.87	25.87	33	PASS
Band7	10MHz	64QAM	21400	50RB#0	20.8	24.8	33	PASS
Band7	15MHz	QPSK	20825	1RB#0	23.73	27.73	33	PASS
Band7	15MHz	QPSK	20825	1RB#38	23.66	27.66	33	PASS
Band7	15MHz	QPSK	20825	1RB#74	23.6	27.6	33	PASS
Band7	15MHz	QPSK	20825	75RB#0	23.21	27.21	33	PASS
Band7	15MHz	QPSK	21100	1RB#0	23.84	27.84	33	PASS
Band7	15MHz	QPSK	21100	1RB#38	23.83	27.83	33	PASS
Band7	15MHz	QPSK	21100	1RB#74	23.82	27.82	33	PASS
Band7	15MHz	QPSK	21100	75RB#0	23.49	27.49	33	PASS
Band7	15MHz	QPSK	21375	1RB#0	23.78	27.78	33	PASS
Band7	15MHz	QPSK	21375	1RB#38	23.64	27.64	33	PASS
Band7	15MHz	QPSK	21375	1RB#74	23.7	27.7	33	PASS
Band7	15MHz	QPSK	21375	75RB#0	23.28	27.28	33	PASS
Band7	15MHz	16QAM	20825	1RB#0	23	27	33	PASS
Band7	15MHz	16QAM	20825	1RB#38	22.92	26.92	33	PASS
Band7	15MHz	16QAM	20825	1RB#74	22.93	26.93	33	PASS
Band7	15MHz	16QAM	20825	75RB#0	21.68	25.68	33	PASS
Band7	15MHz	16QAM	21100	1RB#0	23.05	27.05	33	PASS
Band7	15MHz	16QAM	21100	1RB#38	23.06	27.06	33	PASS
Band7	15MHz	16QAM	21100	1RB#74	23.13	27.13	33	PASS
Band7	15MHz	16QAM	21100	75RB#0	21.85	25.85	33	PASS



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Band7	15MHz	16QAM	21375	1RB#0	23.02	27.02	33	PASS
Band7	15MHz	16QAM	21375	1RB#38	22.88	26.88	33	PASS
Band7	15MHz	16QAM	21375	1RB#74	22.98	26.98	33	PASS
Band7	15MHz	16QAM	21375	75RB#0	21.76	25.76	33	PASS
Band7	15MHz	64QAM	20825	1RB#0	21.8	25.8	33	PASS
Band7	15MHz	64QAM	20825	1RB#38	21.84	25.84	33	PASS
Band7	15MHz	64QAM	20825	1RB#74	21.8	25.8	33	PASS
Band7	15MHz	64QAM	20825	75RB#0	20.68	24.68	33	PASS
Band7	15MHz	64QAM	21100	1RB#0	21.97	25.97	33	PASS
Band7	15MHz	64QAM	21100	1RB#38	21.99	25.99	33	PASS
Band7	15MHz	64QAM	21100	1RB#74	22	26	33	PASS
Band7	15MHz	64QAM	21100	75RB#0	20.83	24.83	33	PASS
Band7	15MHz	64QAM	21375	1RB#0	21.92	25.92	33	PASS
Band7	15MHz	64QAM	21375	1RB#38	21.77	25.77	33	PASS
Band7	15MHz	64QAM	21375	1RB#74	21.83	25.83	33	PASS
Band7	15MHz	64QAM	21375	75RB#0	20.74	24.74	33	PASS
Band7	20MHz	QPSK	20850	1RB#0	23.73	27.73	33	PASS
Band7	20MHz	QPSK	20850	1RB#49	23.6	27.6	33	PASS
Band7	20MHz	QPSK	20850	1RB#99	23.57	27.57	33	PASS
Band7	20MHz	QPSK	20850	100RB#0	23.38	27.38	33	PASS
Band7	20MHz	QPSK	21100	1RB#0	23.88	27.88	33	PASS
Band7	20MHz	QPSK	21100	1RB#49	23.81	27.81	33	PASS
Band7	20MHz	QPSK	21100	1RB#99	23.85	27.85	33	PASS
Band7	20MHz	QPSK	21100	100RB#0	23.5	27.5	33	PASS
Band7	20MHz	QPSK	21350	1RB#0	23.7	27.7	33	PASS
Band7	20MHz	QPSK	21350	1RB#49	23.71	27.71	33	PASS
Band7	20MHz	QPSK	21350	1RB#99	23.66	27.66	33	PASS
Band7	20MHz	QPSK	21350	100RB#0	23.42	27.42	33	PASS
Band7	20MHz	16QAM	20850	1RB#0	22.88	26.88	33	PASS
Band7	20MHz	16QAM	20850	1RB#49	22.85	26.85	33	PASS
Band7	20MHz	16QAM	20850	1RB#99	22.68	26.68	33	PASS
Band7	20MHz	16QAM	20850	100RB#0	21.58	25.58	33	PASS
Band7	20MHz	16QAM	21100	1RB#0	23.06	27.06	33	PASS



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Band7	20MHz	16QAM	21100	1RB#49	23.02	27.02	33	PASS
Band7	20MHz	16QAM	21100	1RB#99	23.11	27.11	33	PASS
Band7	20MHz	16QAM	21100	100RB#0	21.87	25.87	33	PASS
Band7	20MHz	16QAM	21350	1RB#0	23.19	27.19	33	PASS
Band7	20MHz	16QAM	21350	1RB#49	23.02	27.02	33	PASS
Band7	20MHz	16QAM	21350	1RB#99	22.96	26.96	33	PASS
Band7	20MHz	16QAM	21350	100RB#0	21.79	25.79	33	PASS
Band7	20MHz	64QAM	20850	1RB#0	21.85	25.85	33	PASS
Band7	20MHz	64QAM	20850	1RB#49	21.78	25.78	33	PASS
Band7	20MHz	64QAM	20850	1RB#99	21.64	25.64	33	PASS
Band7	20MHz	64QAM	20850	100RB#0	20.59	24.59	33	PASS
Band7	20MHz	64QAM	21100	1RB#0	22.02	26.02	33	PASS
Band7	20MHz	64QAM	21100	1RB#49	21.93	25.93	33	PASS
Band7	20MHz	64QAM	21100	1RB#99	21.95	25.95	33	PASS
Band7	20MHz	64QAM	21100	100RB#0	20.86	24.86	33	PASS
Band7	20MHz	64QAM	21350	1RB#0	22.05	26.05	33	PASS
Band7	20MHz	64QAM	21350	1RB#49	21.9	25.9	33	PASS
Band7	20MHz	64QAM	21350	1RB#99	21.9	25.9	33	PASS
Band7	20MHz	64QAM	21350	100RB#0	20.78	24.78	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	5.44	13	PASS
Band7	20MHz	QPSK	21100	100RB#0	5.18	13	PASS
Band7	20MHz	QPSK	21350	100RB#0	5.16	13	PASS
Band7	20MHz	16QAM	20850	100RB#0	6.28	13	PASS
Band7	20MHz	16QAM	21100	100RB#0	5.98	13	PASS
Band7	20MHz	16QAM	21350	100RB#0	6.02	13	PASS
Band7	20MHz	64QAM	20850	100RB#0	6.54	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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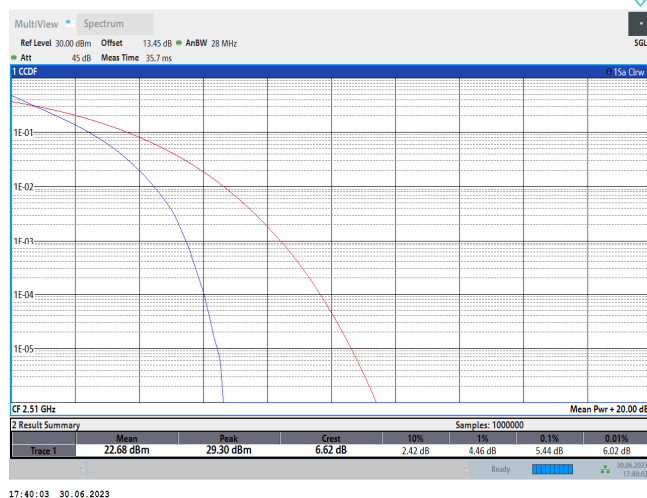
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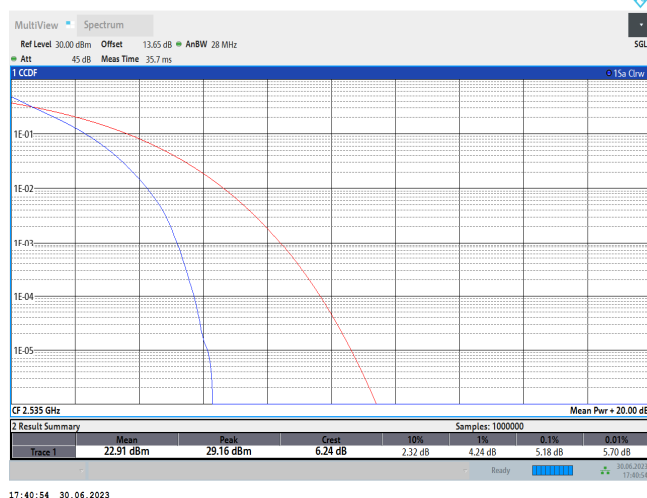
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### Test Graphs

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



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



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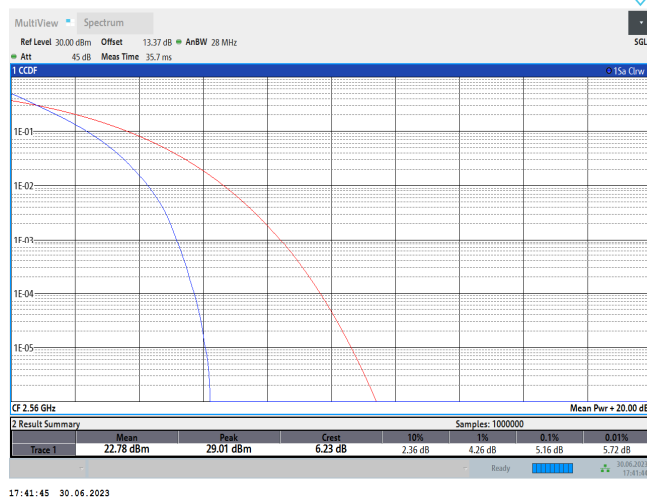


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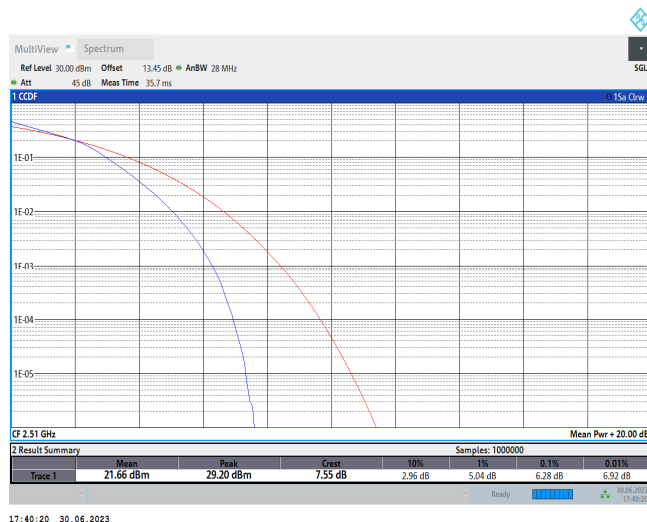
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### Band7-20MHz-QPSK-21350-100RB#0



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



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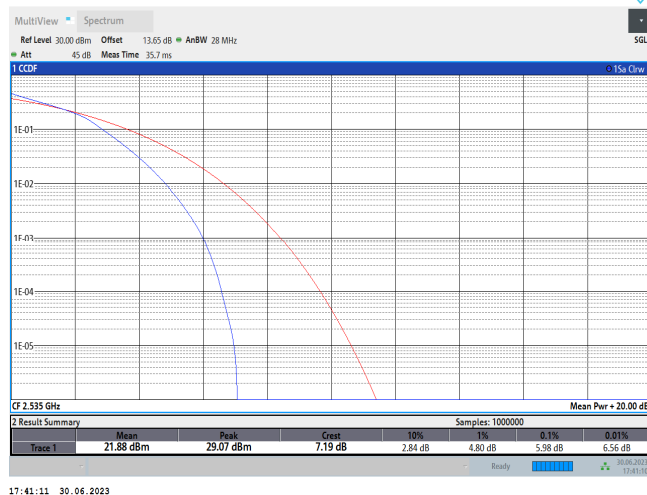
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### Band7-20MHz-16QAM-21100-100RB#0



17:41:11 30.06.2023



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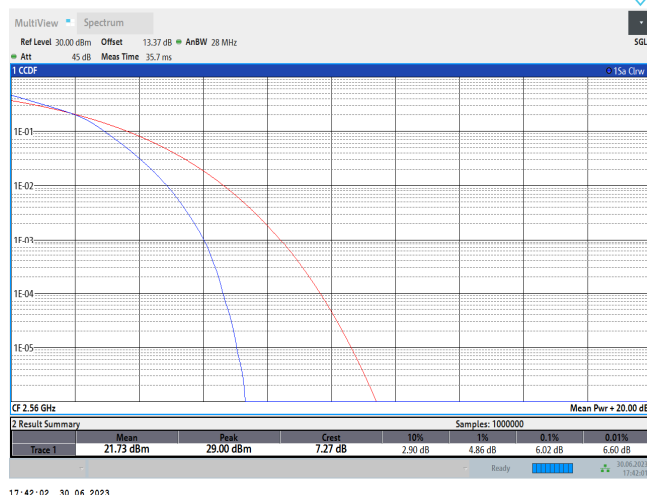
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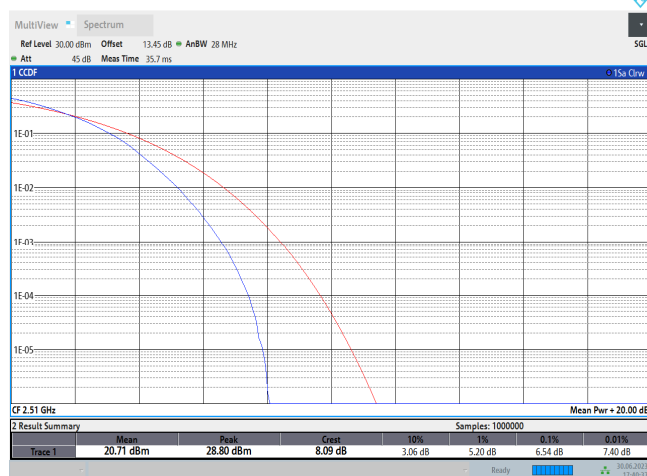
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### Band7-20MHz-16QAM-21350-100RB#0



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



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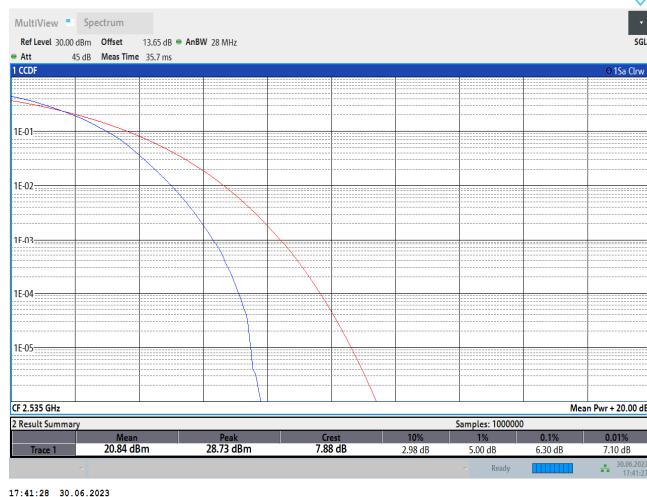
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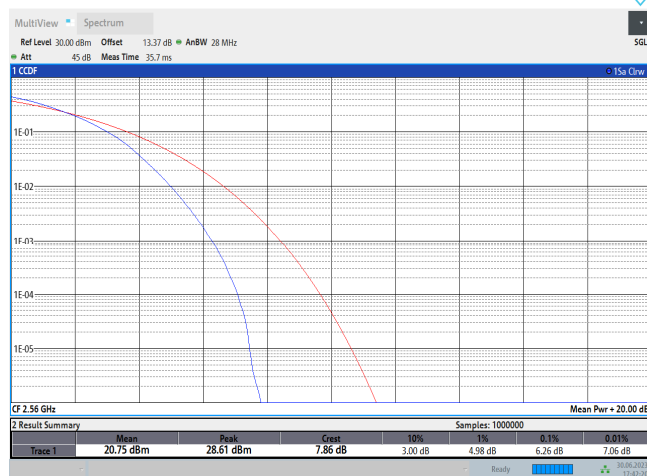
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### Band7-20MHz-64QAM-21100-100RB#0



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



17:42:20 30.06.2023



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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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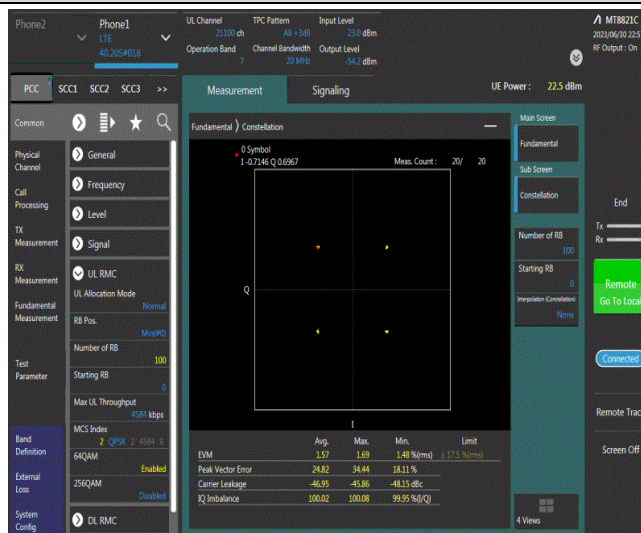
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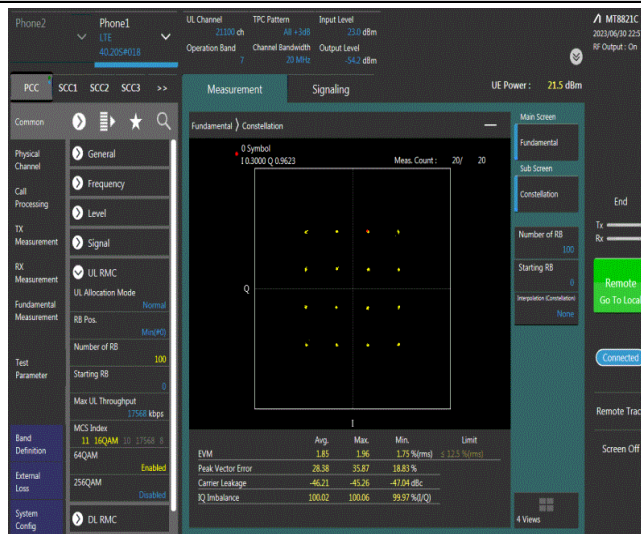
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### Test Graphs

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



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

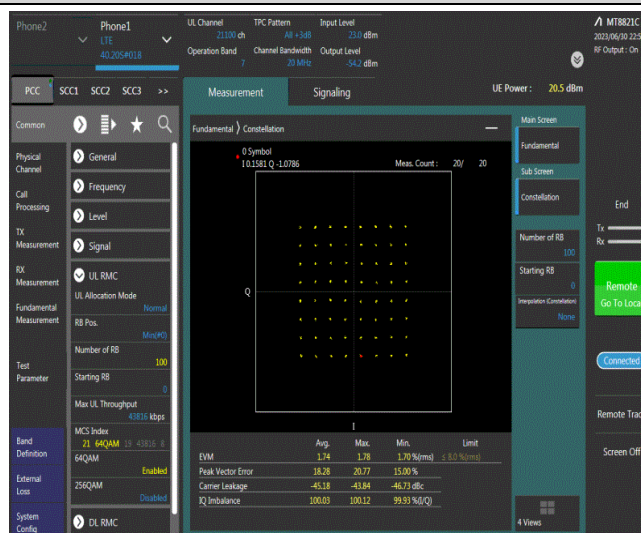


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### Band7-20MHz-64QAM-21100-100RB#0



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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	4.474	4.87	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.472	4.89	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.474	4.86	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.472	4.90	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.473	4.92	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.47	4.93	PASS
Band7	5MHz	64QAM	20775	25RB#0	4.478	4.92	PASS
Band7	5MHz	64QAM	21100	25RB#0	4.48	4.90	PASS
Band7	5MHz	64QAM	21425	25RB#0	4.472	4.91	PASS
Band7	10MHz	QPSK	20800	50RB#0	8.943	9.64	PASS
Band7	10MHz	QPSK	21100	50RB#0	8.915	9.68	PASS
Band7	10MHz	QPSK	21400	50RB#0	8.924	9.64	PASS
Band7	10MHz	16QAM	20800	50RB#0	8.92	9.64	PASS
Band7	10MHz	16QAM	21100	50RB#0	8.917	9.64	PASS
Band7	10MHz	16QAM	21400	50RB#0	8.911	9.62	PASS
Band7	10MHz	64QAM	20800	50RB#0	8.932	9.68	PASS
Band7	10MHz	64QAM	21100	50RB#0	8.925	9.66	PASS
Band7	10MHz	64QAM	21400	50RB#0	8.925	9.70	PASS
Band7	15MHz	QPSK	20825	75RB#0	13.463	14.73	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.456	14.70	PASS
Band7	15MHz	QPSK	21375	75RB#0	13.445	14.70	PASS
Band7	15MHz	16QAM	20825	75RB#0	13.448	14.85	PASS
Band7	15MHz	16QAM	21100	75RB#0	13.444	14.73	PASS
Band7	15MHz	16QAM	21375	75RB#0	13.42	14.73	PASS
Band7	15MHz	64QAM	20825	75RB#0	13.434	14.79	PASS
Band7	15MHz	64QAM	21100	75RB#0	13.419	14.79	PASS
Band7	15MHz	64QAM	21375	75RB#0	13.411	14.73	PASS
Band7	20MHz	QPSK	20850	100RB#0	17.908	19.44	PASS
Band7	20MHz	QPSK	21100	100RB#0	17.911	19.56	PASS



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Band7	20MHz	QPSK	21350	100RB#0	17.866	19.28	PASS
Band7	20MHz	16QAM	20850	100RB#0	17.858	19.44	PASS
Band7	20MHz	16QAM	21100	100RB#0	17.873	19.44	PASS
Band7	20MHz	16QAM	21350	100RB#0	17.875	19.36	PASS
Band7	20MHz	64QAM	20850	100RB#0	17.871	19.48	PASS
Band7	20MHz	64QAM	21100	100RB#0	17.858	19.44	PASS
Band7	20MHz	64QAM	21350	100RB#0	17.841	19.48	PASS



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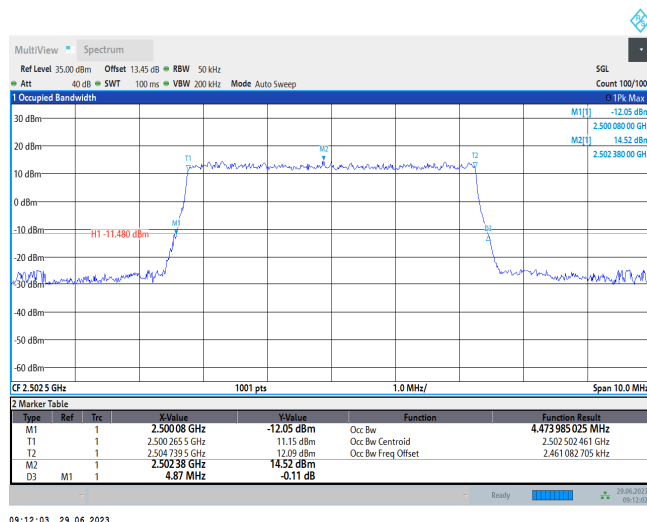
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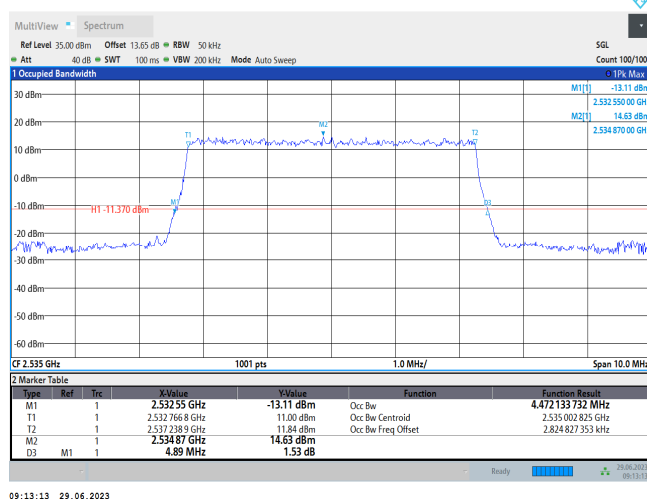
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## Test Graphs

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



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



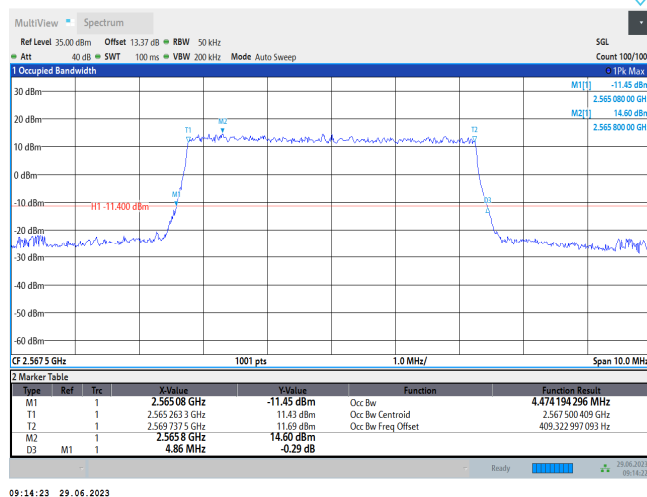


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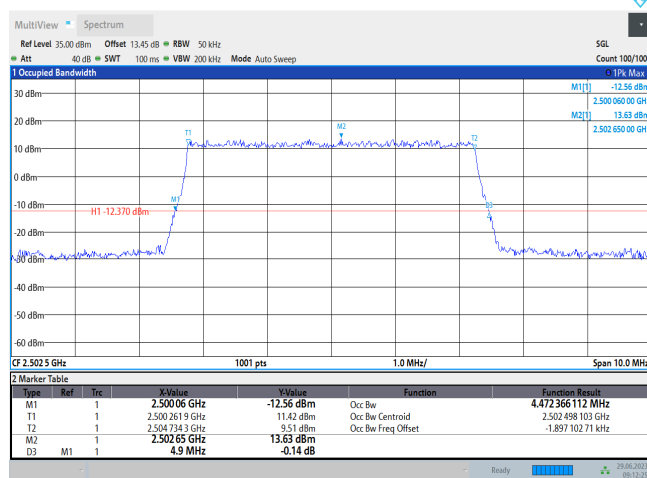
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## Band7-5MHz-QPSK-21425-25RB#0



09:14:23 29.06.2023

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



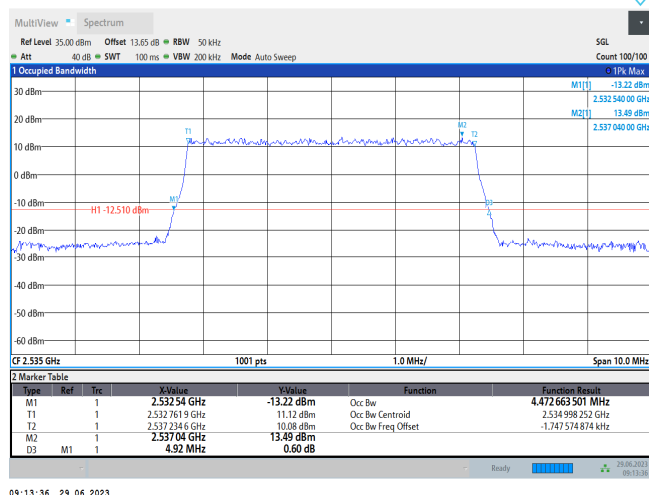
09:12:26 29.06.2023

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



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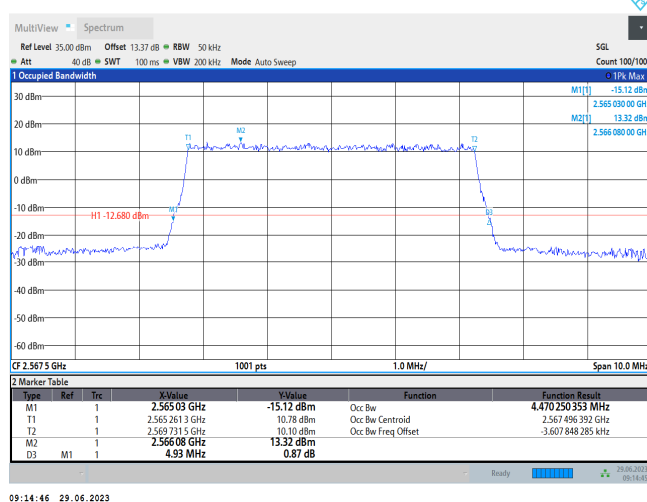
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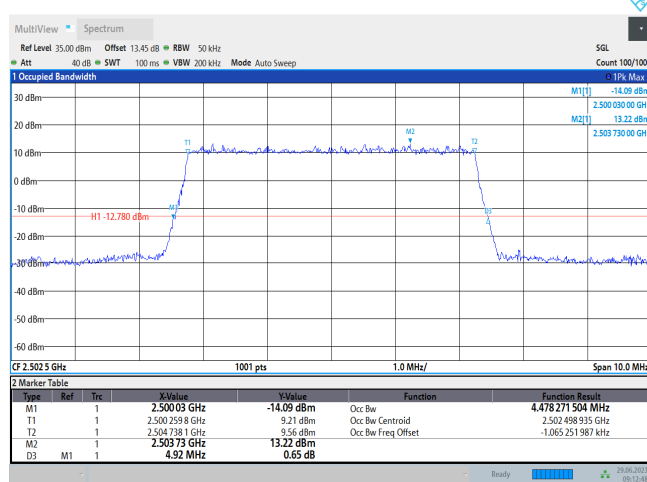
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09:14:46 29.06.2023

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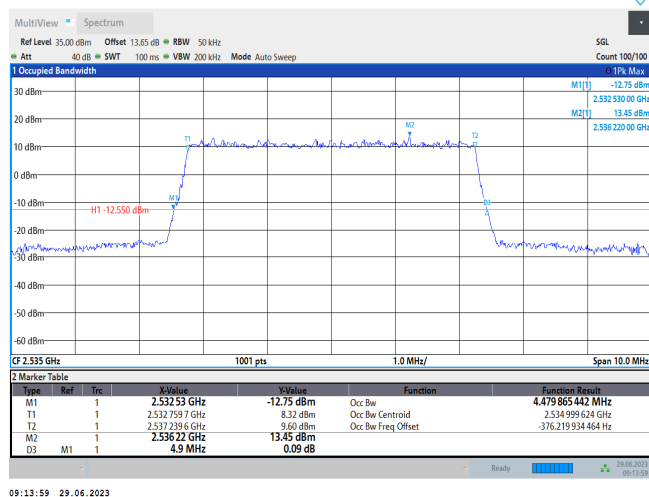
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## Band7-5MHz-64QAM-21100-25RB#0

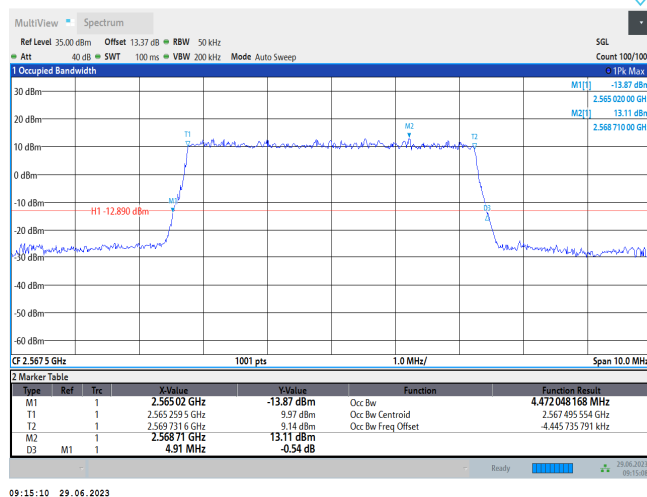


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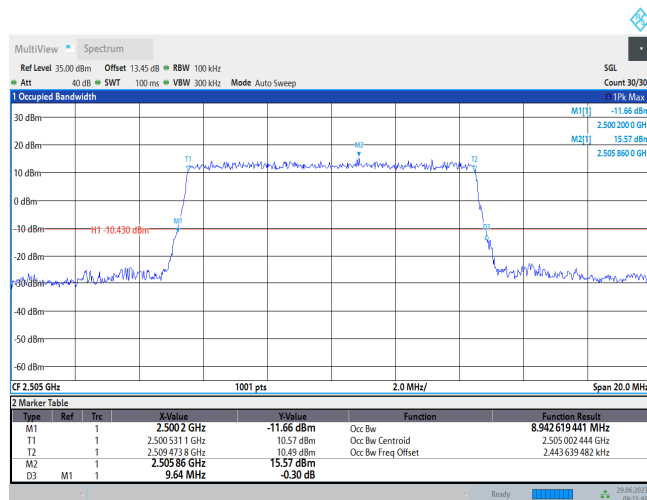
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## Band7-5MHz-64QAM-21425-25RB#0



09:15:10 29.06.2023

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09:15:49 29.06.2023

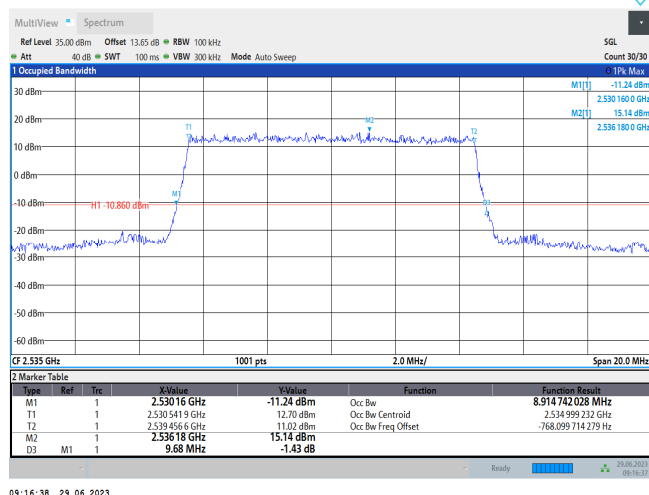


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## Band7-10MHz-QPSK-21100-50RB#0



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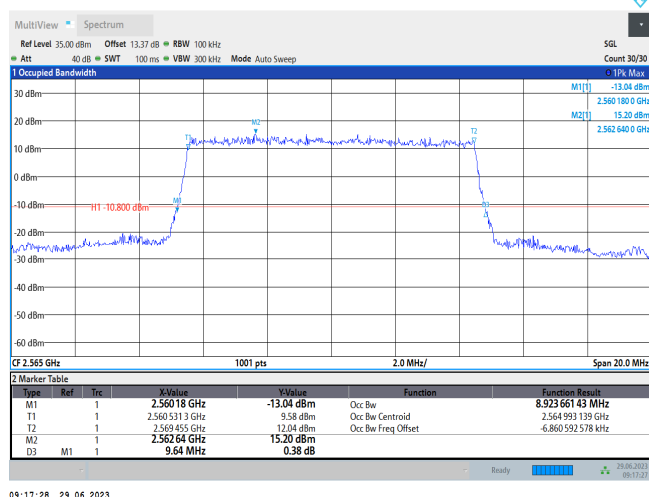
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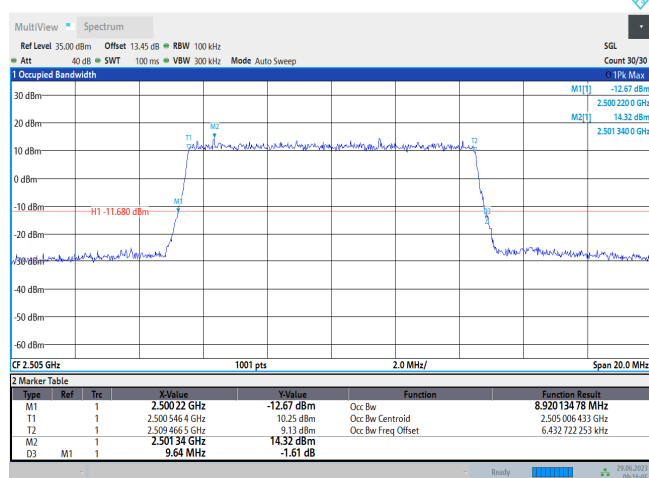
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09:17:28 29.06.2023

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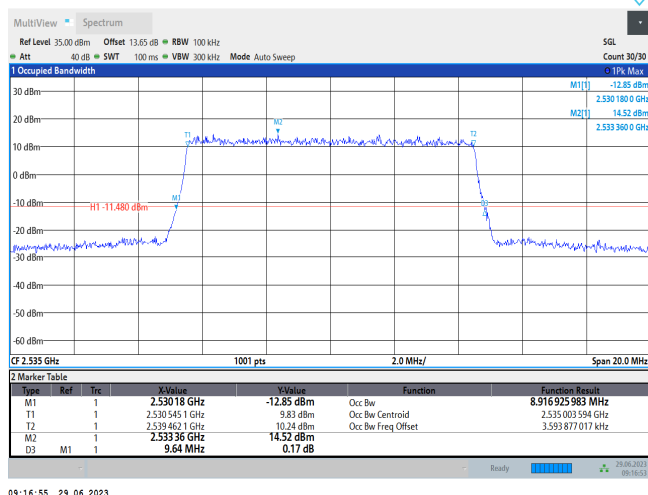
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### Band7-10MHz-16QAM-21100-50RB#0



09:16:55 29.06.2023



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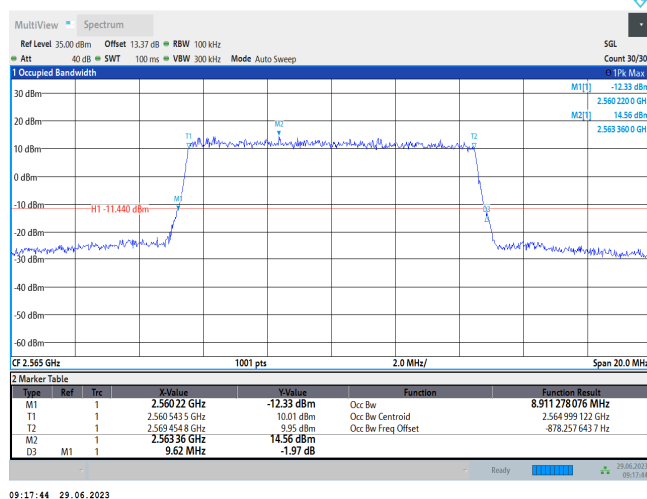
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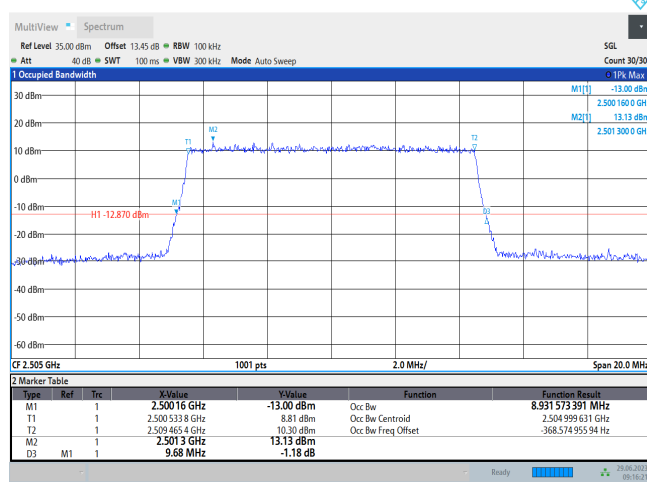
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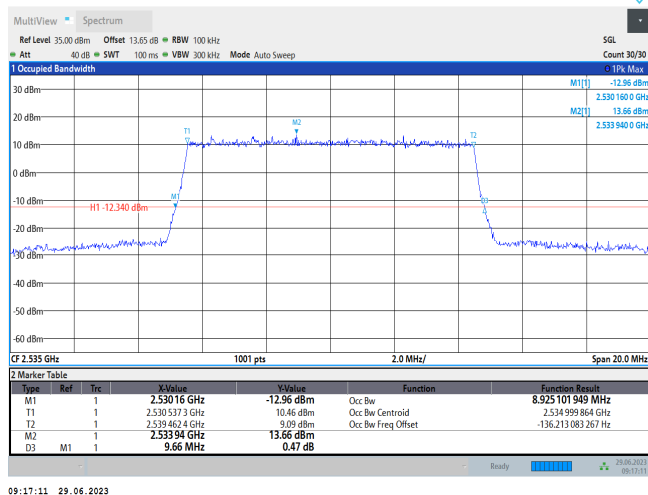
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### Band7-10MHz-64QAM-21100-50RB#0



09:17:11 29.06.2023



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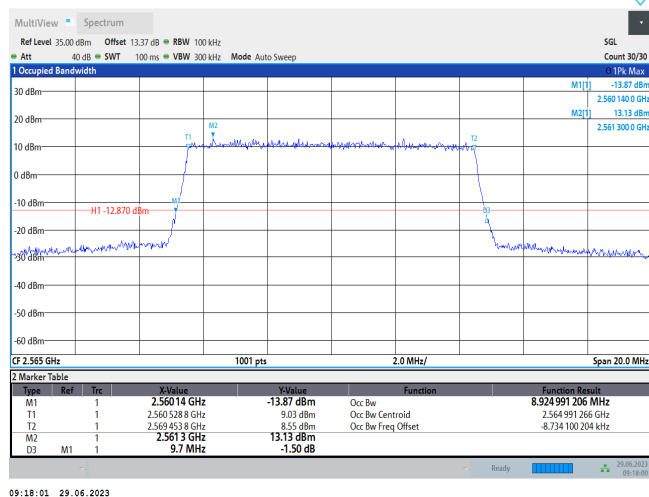


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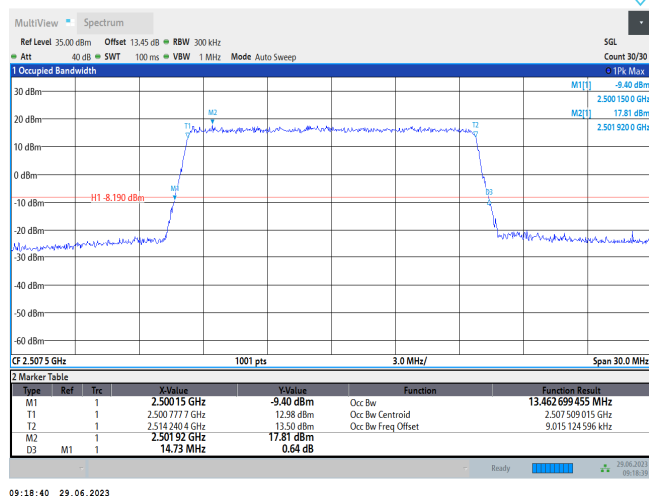
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## Band7-10MHz-64QAM-21400-50RB#0



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

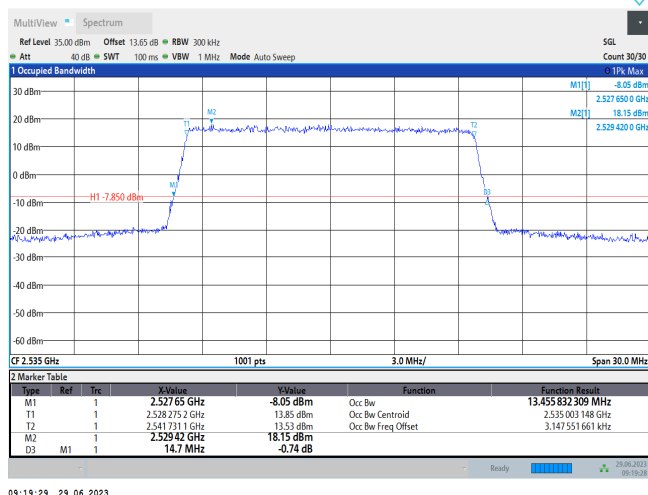


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### Band7-15MHz-QPSK-21100-75RB#0



09:19:29 29.06.2023



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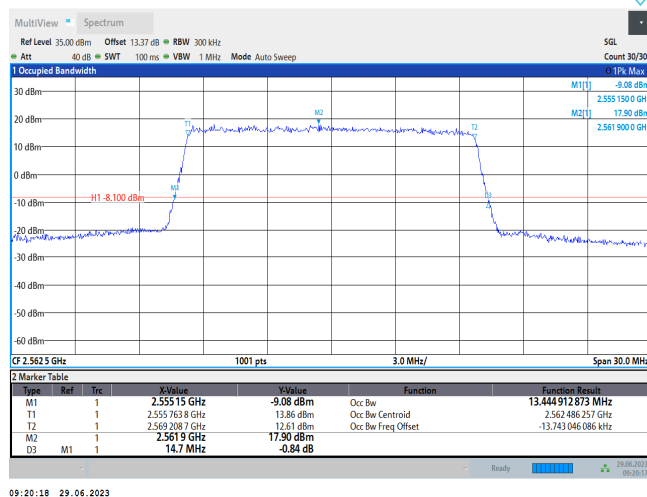
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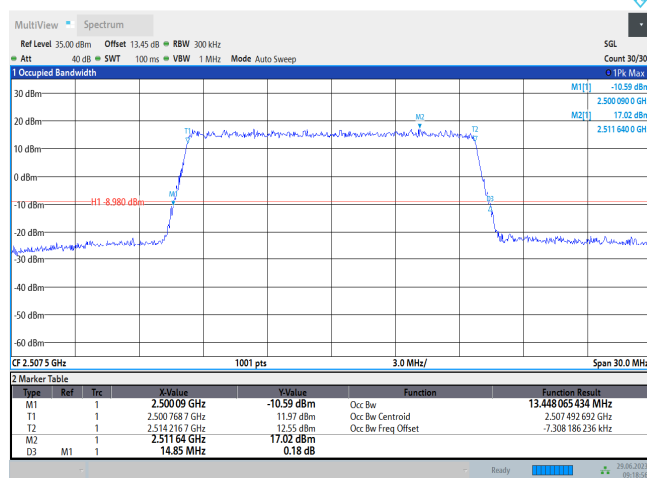
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09:20:18 29.06.2023

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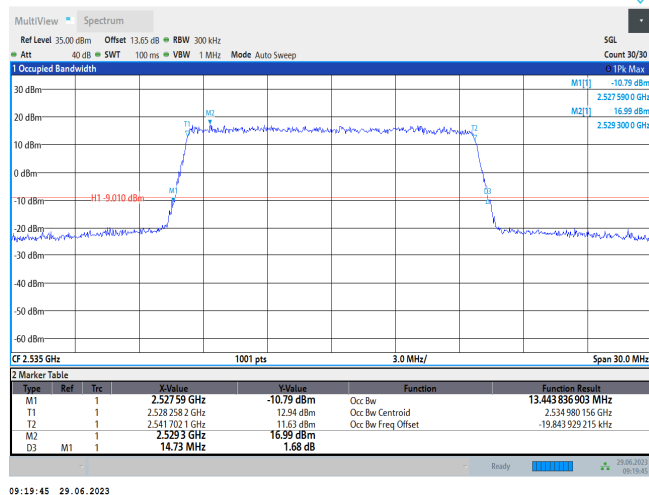
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### Band7-15MHz-16QAM-21100-75RB#0



09:19:45 29.06.2023



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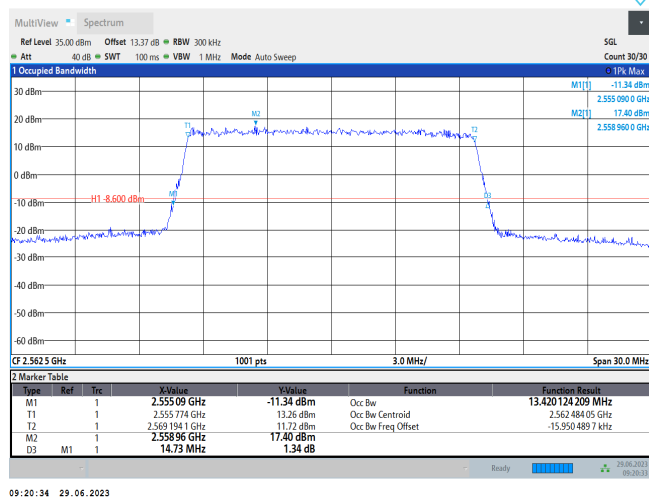
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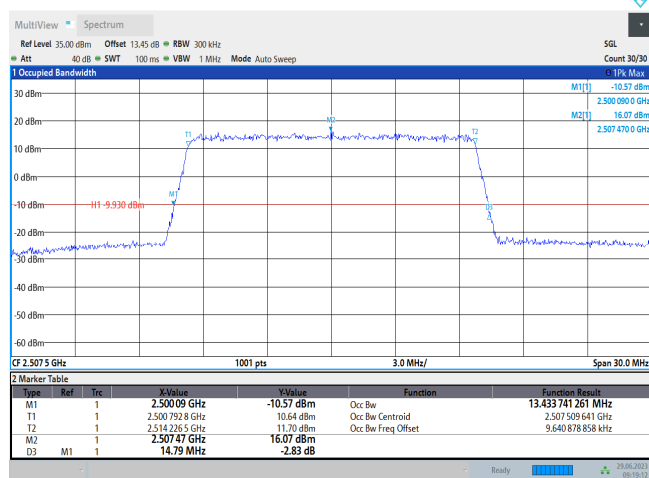
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## Band7-15MHz-16QAM-21375-75RB#0



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09:19:13 29.06.2023

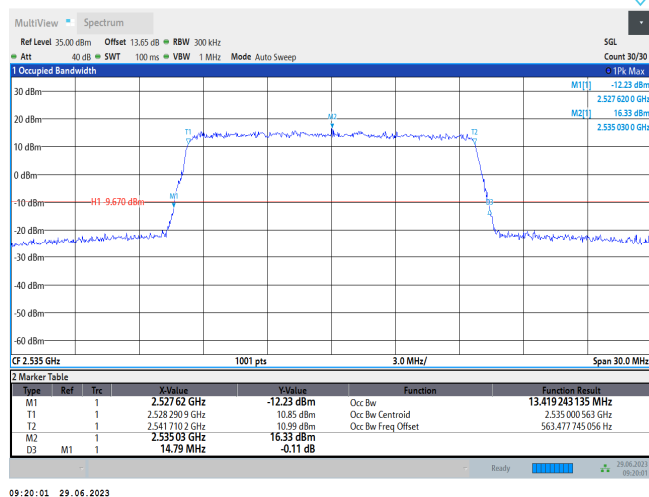


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## Band7-15MHz-64QAM-21100-75RB#0



09:20:01 29.06.2023

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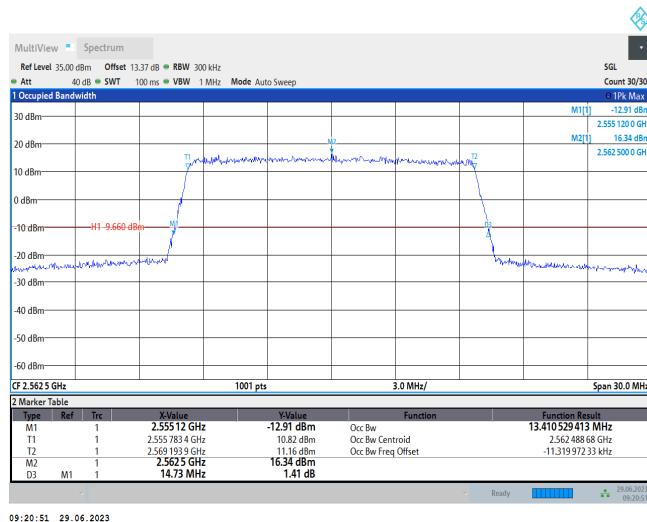
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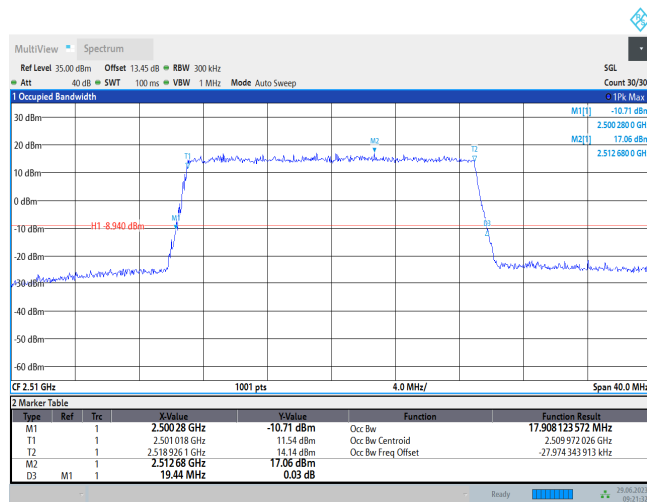
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09:20:51 29.06.2023

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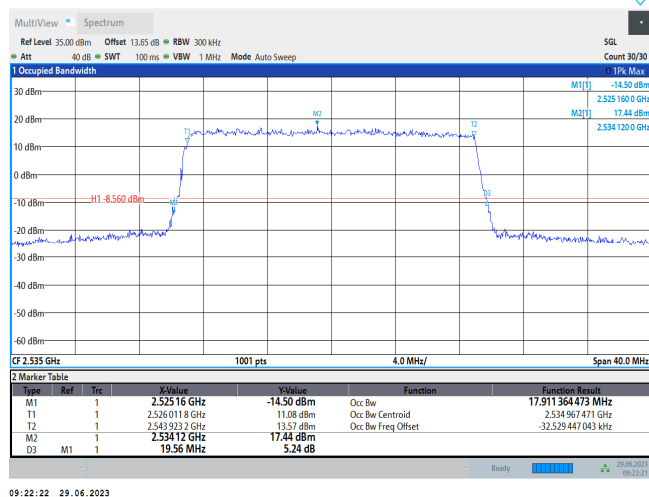
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### Band7-20MHz-QPSK-21100-100RB#0



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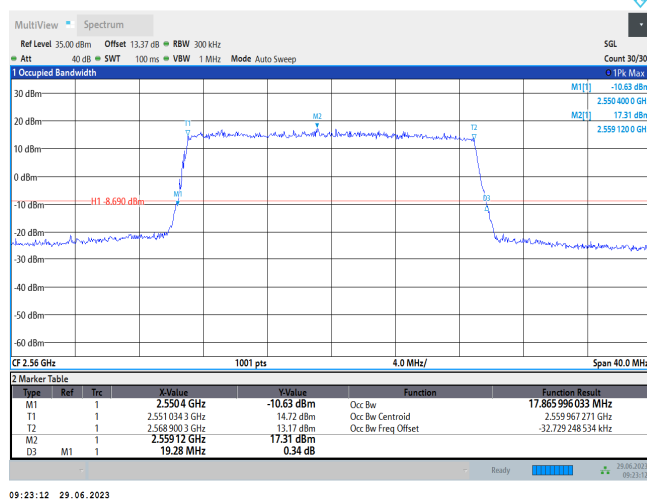
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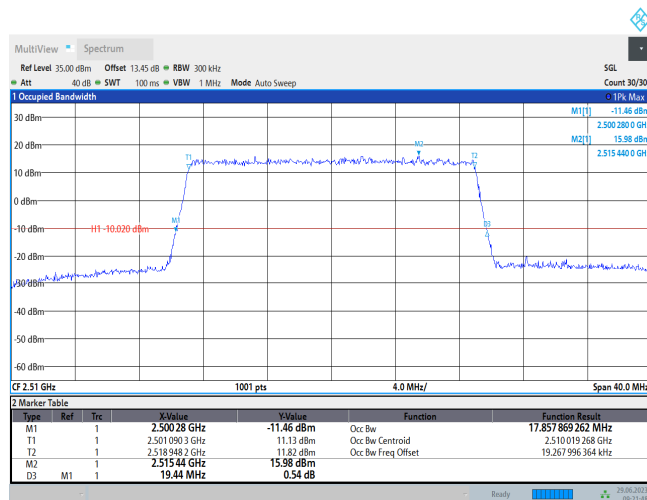
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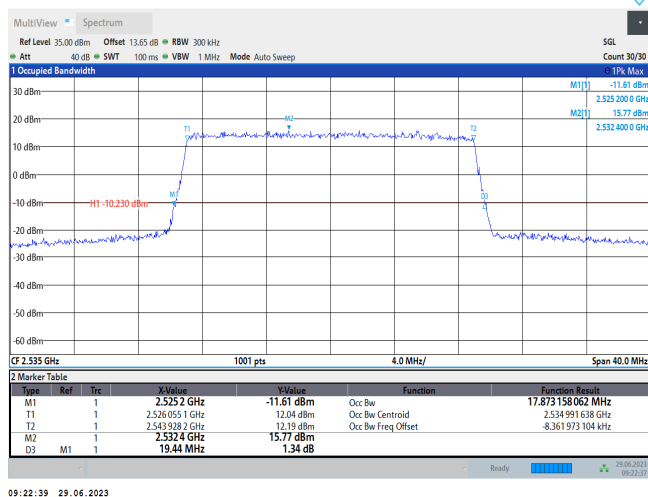
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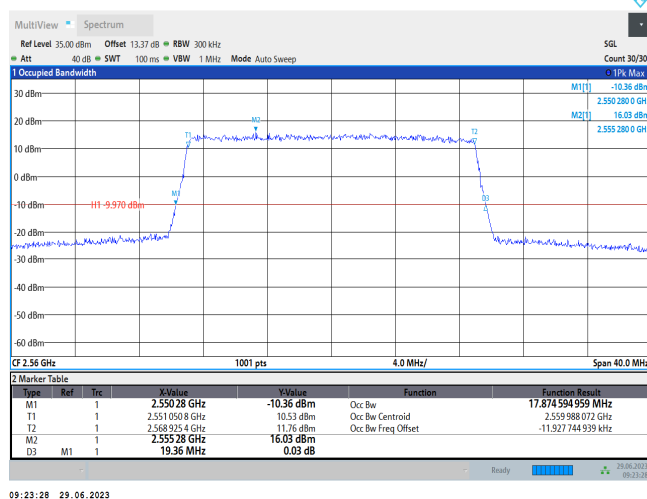


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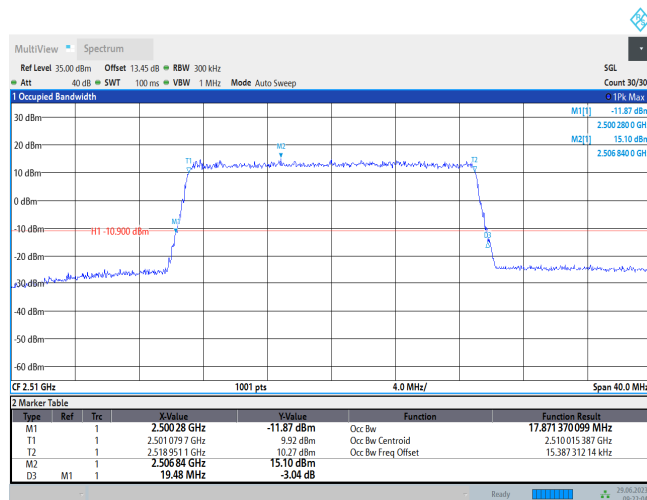
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## Band7-20MHz-16QAM-21350-100RB#0



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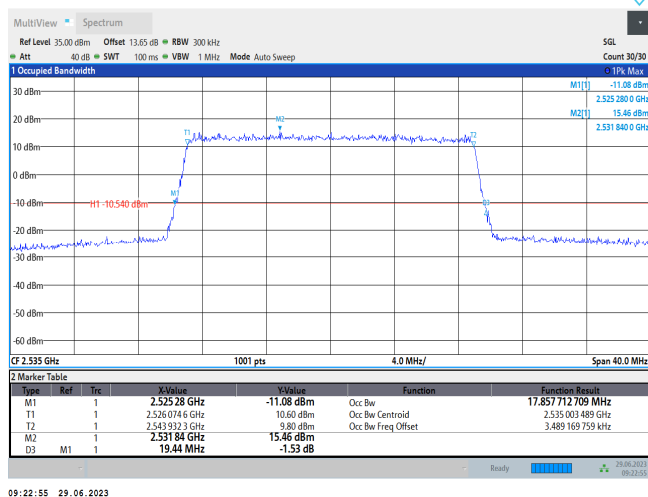


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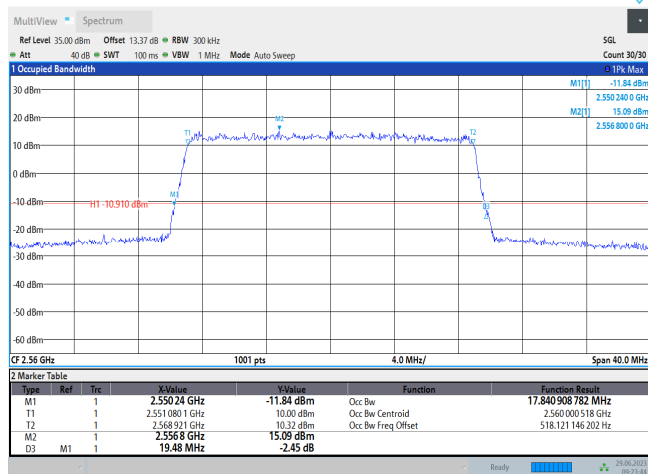
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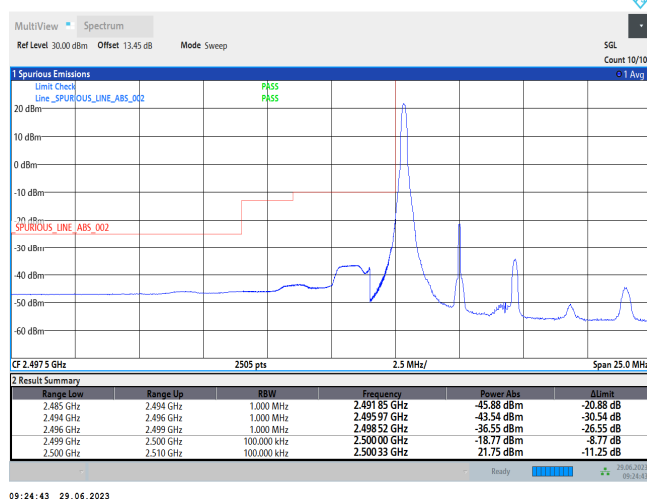
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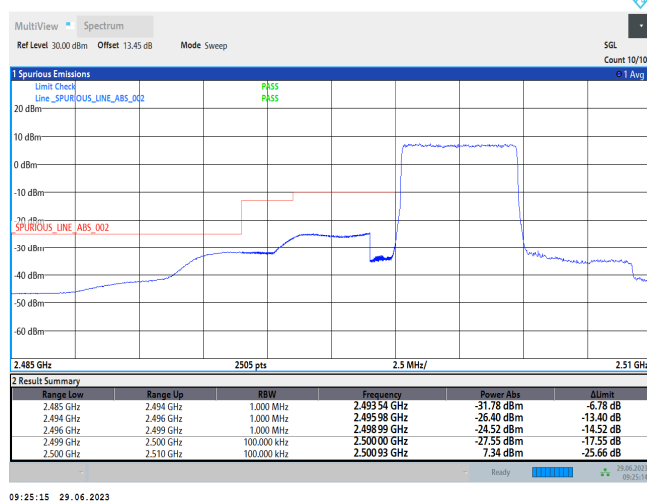
## Band Edge

## Test Graphs

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



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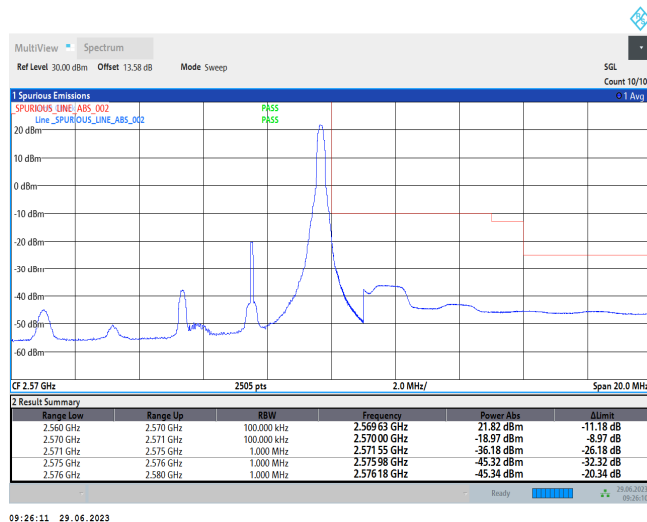


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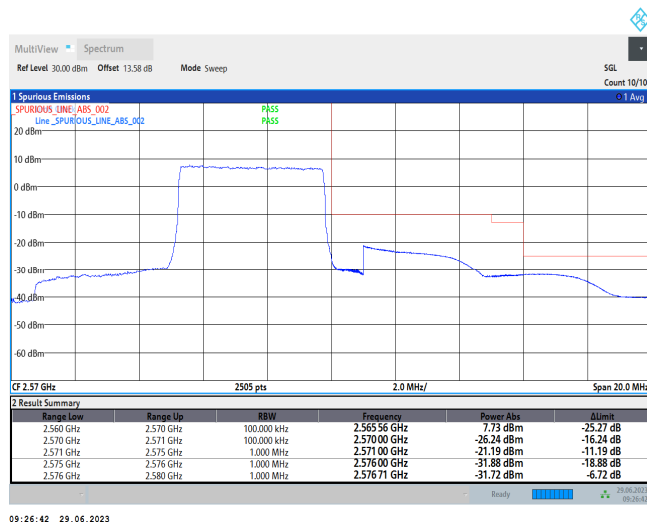
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## Band7-5MHz-QPSK-21425-1RB#24



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

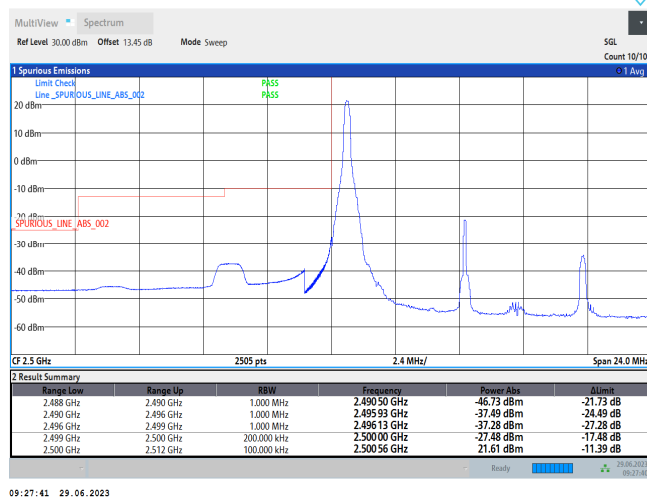


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## Band7-10MHz-QPSK-20800-1RB#0

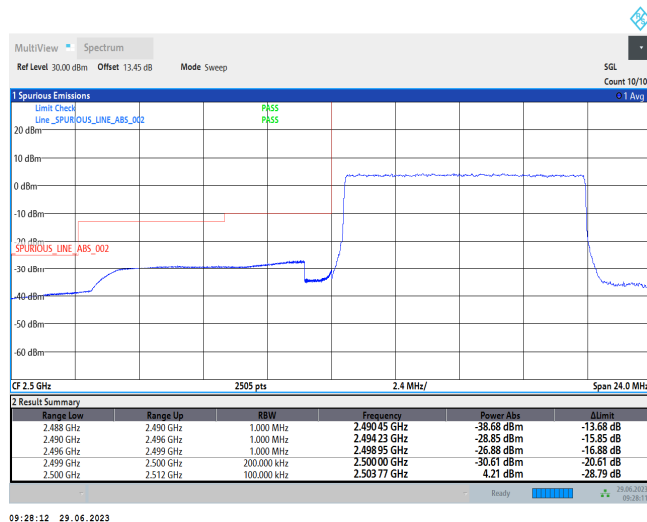


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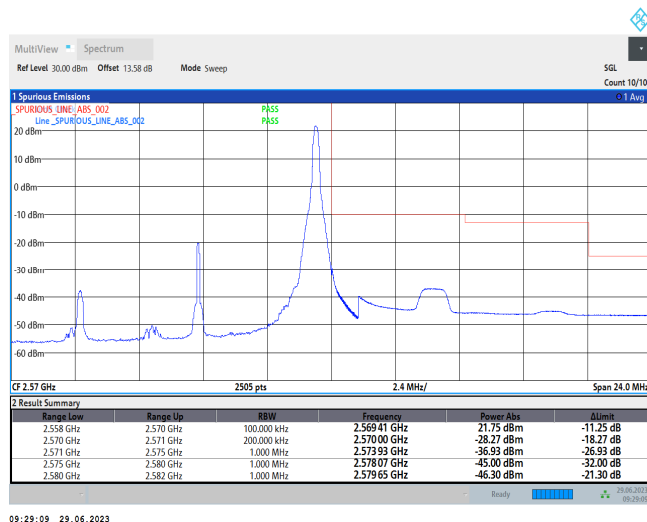
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## Band7-10MHz-QPSK-20800-50RB#0



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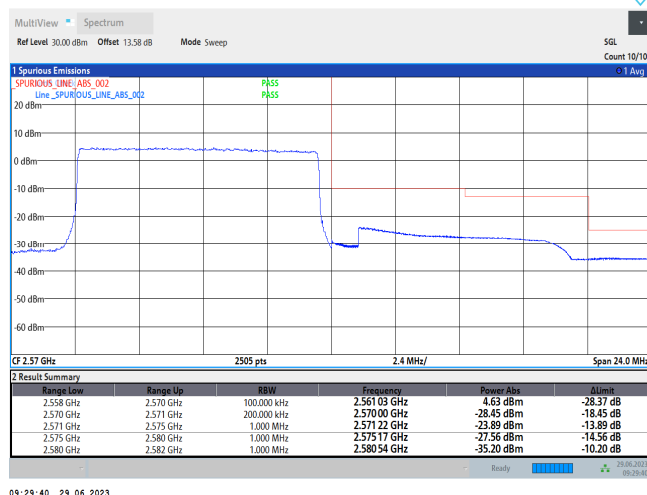


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## Band7-10MHz-QPSK-21400-50RB#0



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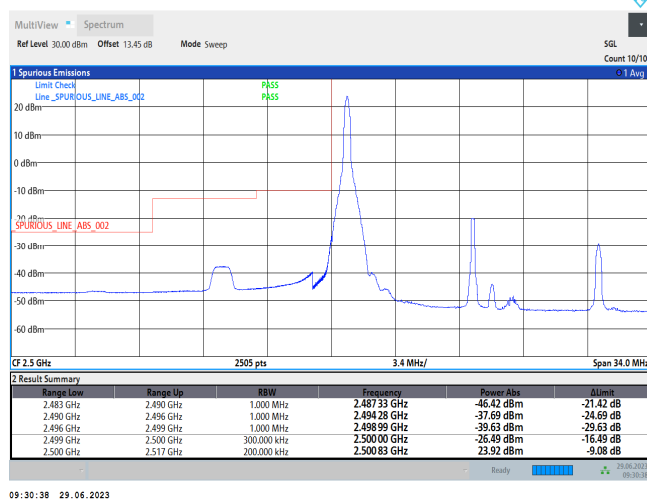


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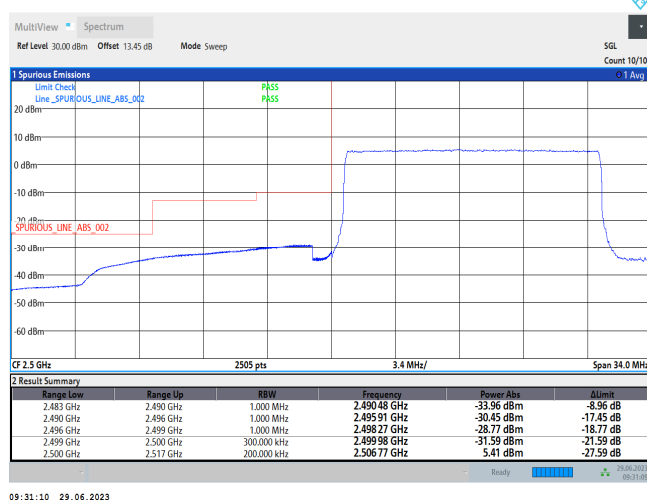
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### Band7-15MHz-QPSK-20825-1RB#0



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



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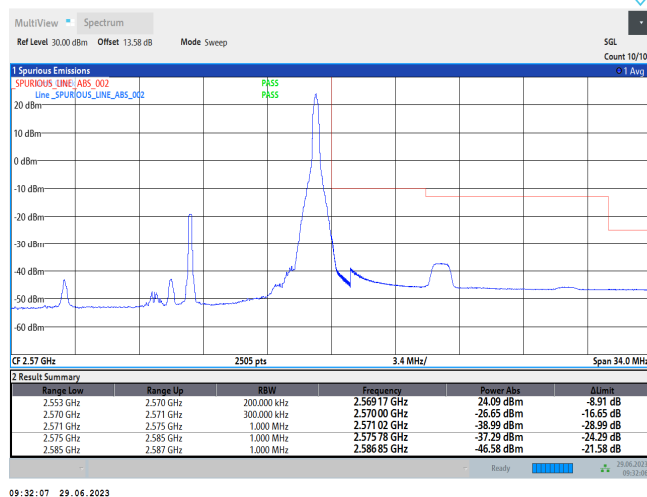
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## Band7-15MHz-QPSK-21375-1RB#74



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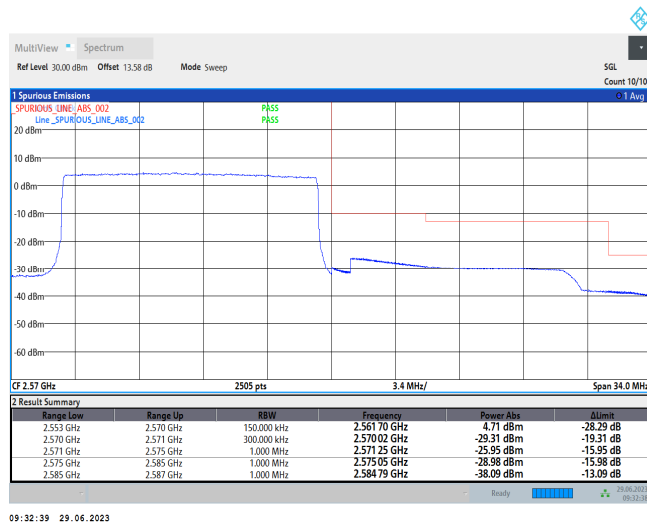
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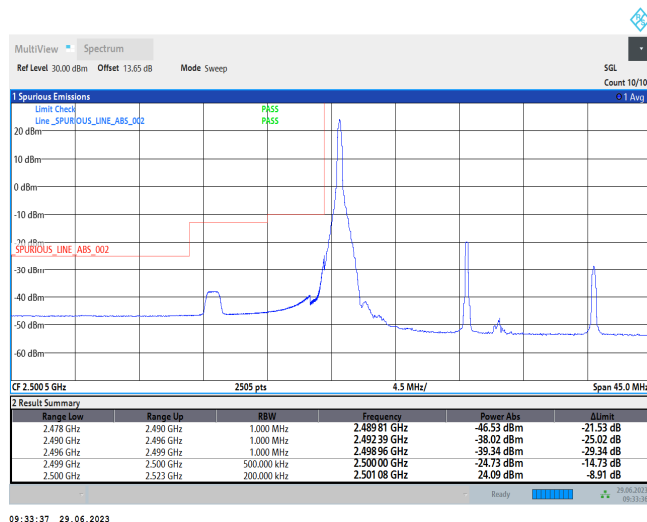
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## Band7-15MHz-QPSK-21375-75RB#0



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

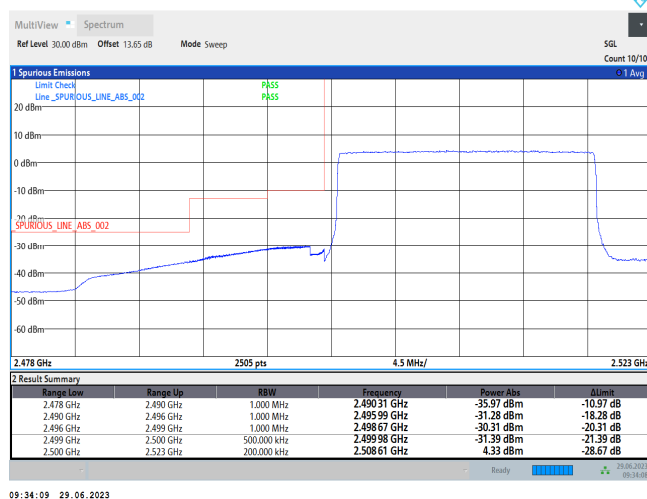


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## Band7-20MHz-QPSK-20850-100RB#0



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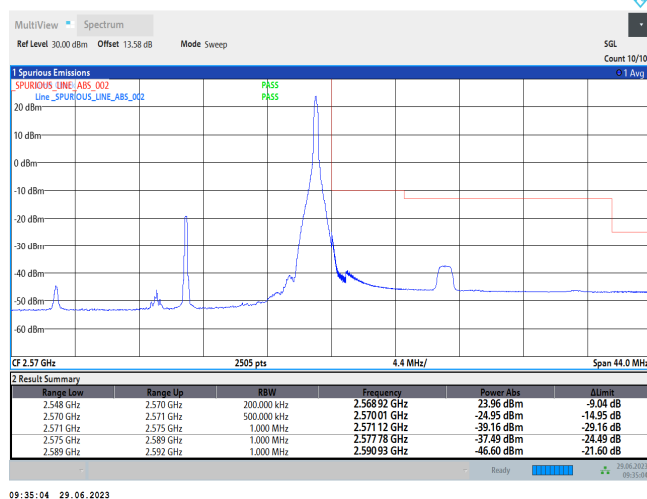
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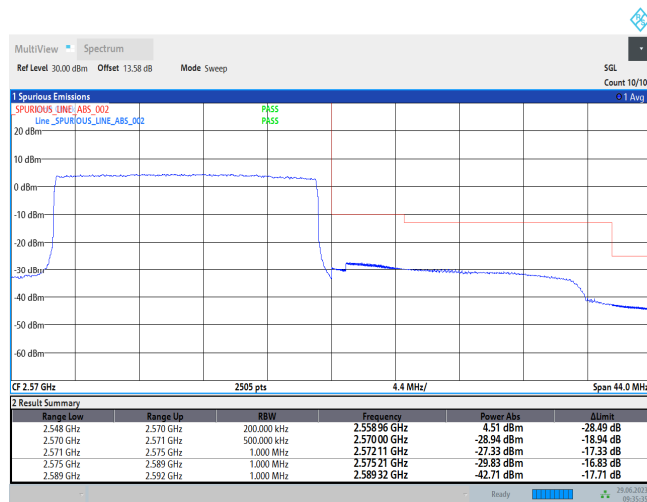
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## Band7-20MHz-QPSK-21350-1RB#99



09:35:04 29.06.2023

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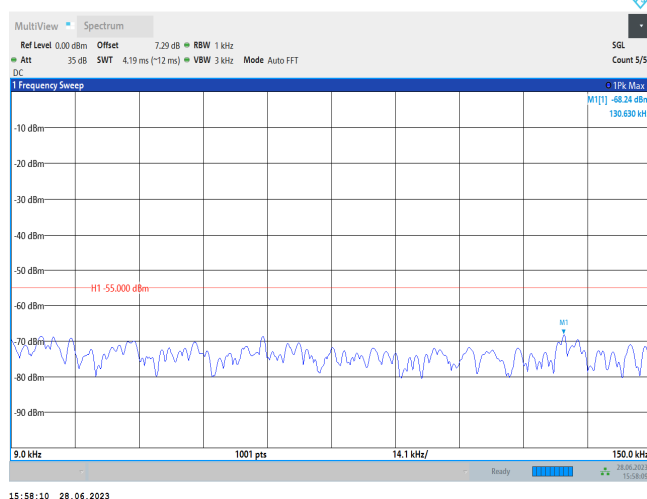
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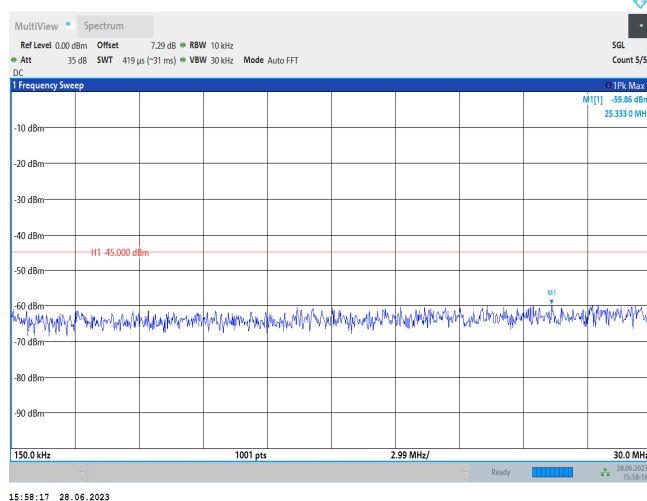
### Conducted Spurious Emission

#### Test Graphs

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



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



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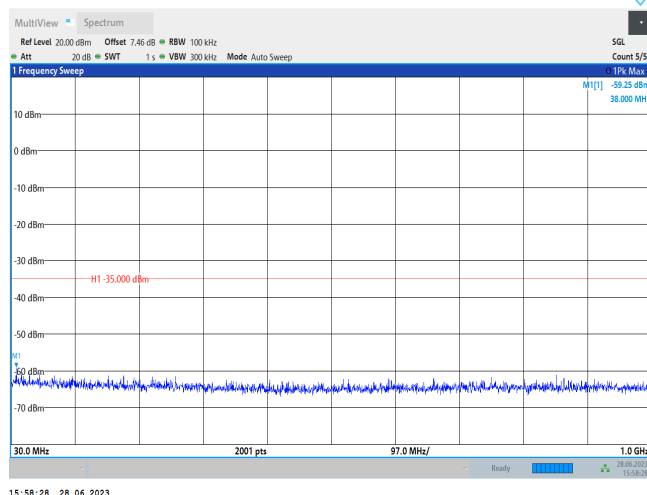


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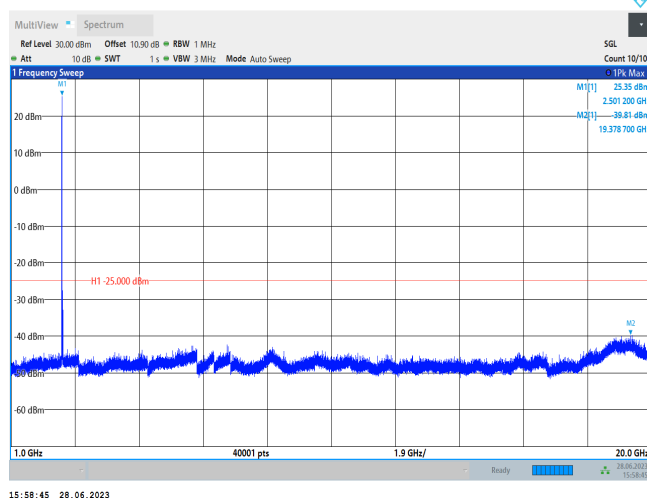
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### Band7-20MHz-QPSK-20850-1RB#0-Range3:30~1000MHz



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



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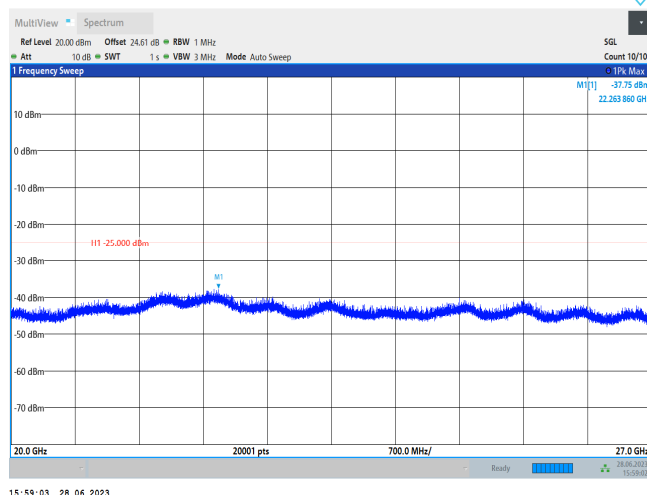
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### Band7-20MHz-QPSK-20850-1RB#0-Range5:20000~27000MHz



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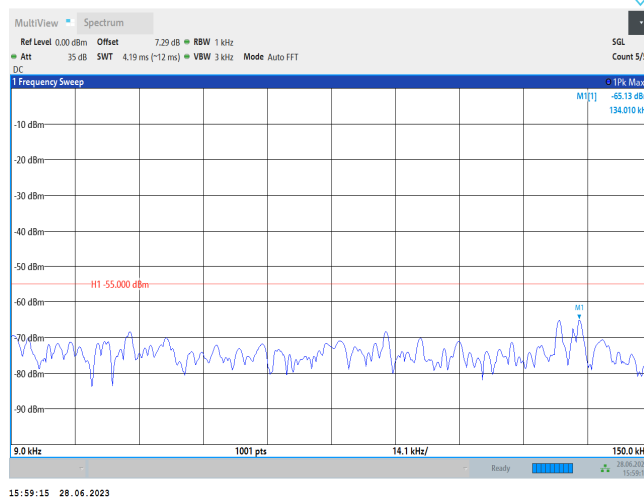


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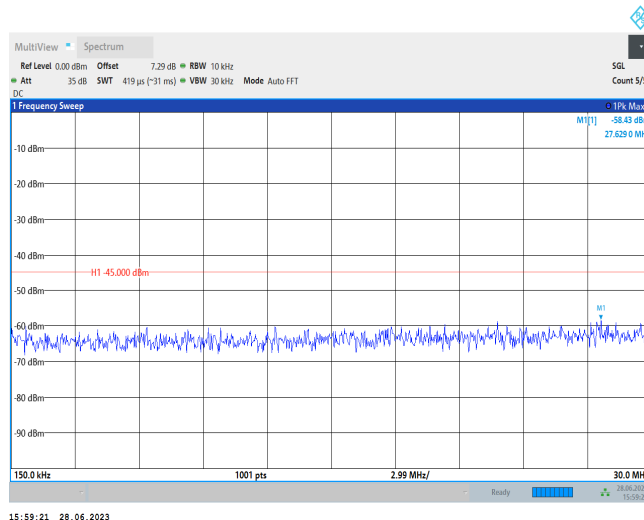
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Band7-20MHz-QPSK-21100-1RB#0-Range1:0.009~0.15MHz



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



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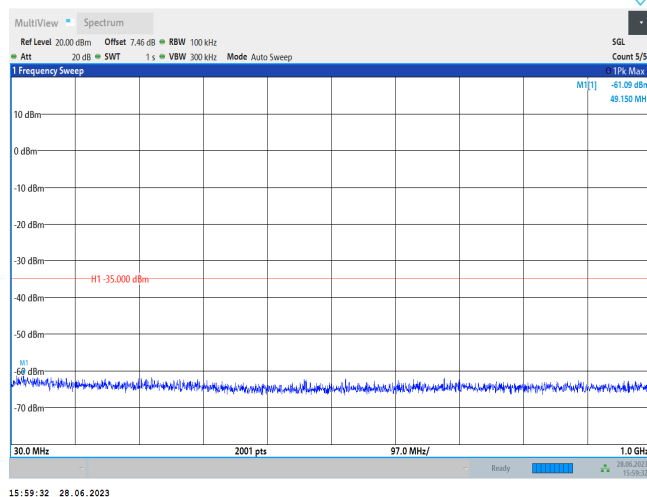
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15:59:32 28.06.2023



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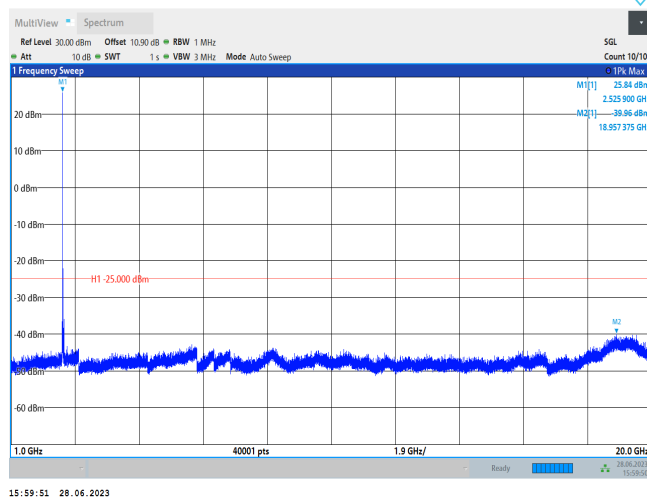
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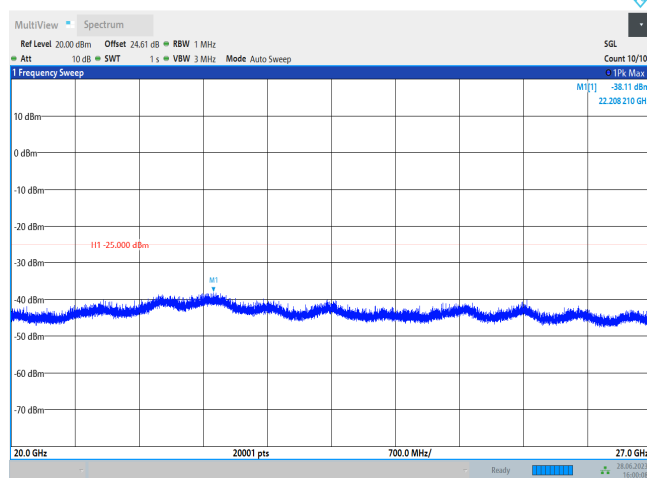
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### Band7-20MHz-QPSK-21100-1RB#0-Range5:20000~27000MHz



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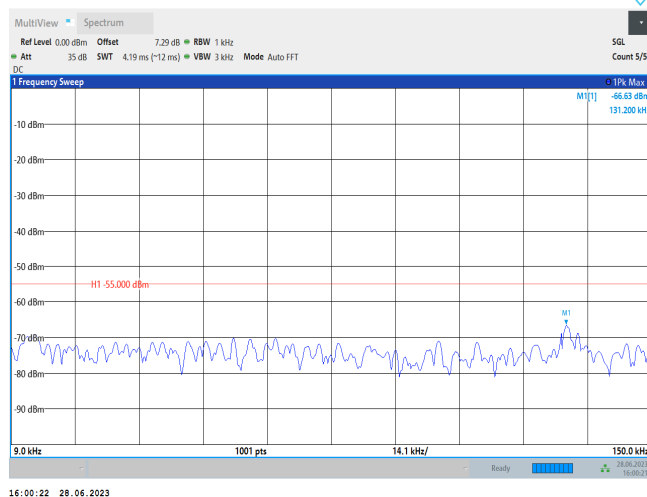


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Band7-20MHz-QPSK-21350-1RB#0-Range1:0.009~0.15MHz



16:00:22 28.06.2023



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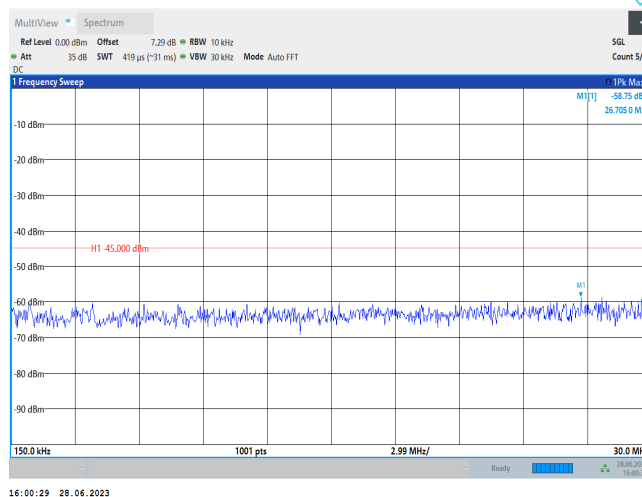


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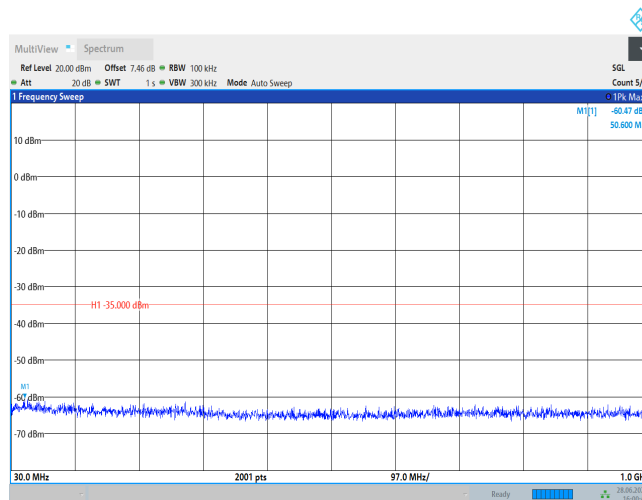
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### Band7-20MHz-QPSK-21350-1RB#0-Range2:0.15~30MHz



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



16:00:41 28.06.2023



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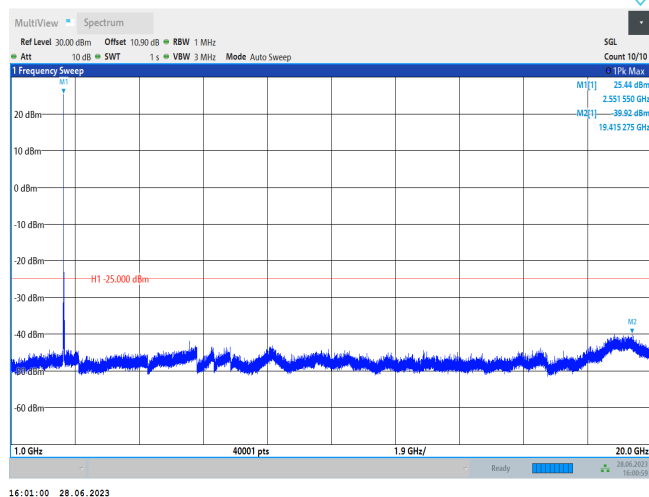
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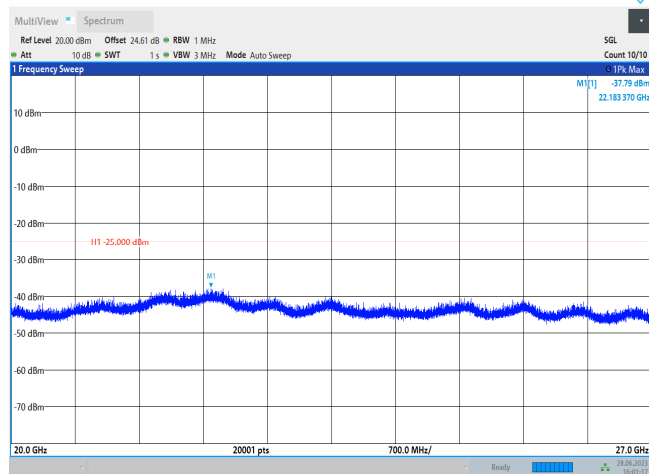
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### Band7-20MHz-QPSK-21350-1RB#0-Range4:1000~20000MHz



16:01:00 28.06.2023

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



16:01:17 28.06.2023



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## Field Strength of Spurious Radiation

Test Band = LTE\_7\_TM1\_20MHz

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	2999.3333	39.15	-21.77	28.60	-49.28	-25.00	24.28	147	197	Horizontal
2	4404.0562	48.32	-43.38	30.10	-60.22	-25.00	35.22	240	196	Horizontal
3	6871.3549	46.01	-39.29	35.51	-53.03	-25.00	28.03	290	250	Horizontal
4	9902.0761	43.25	-35.01	38.60	-48.42	-25.00	23.42	333	246	Horizontal
5	13690.6276	43.42	-37.99	40.19	-49.64	-25.00	24.64	341	7	Horizontal
6	15193.0877	41.97	-35.56	39.74	-49.11	-25.00	24.11	157	25	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	3000	39.38	-21.77	28.60	-49.05	-25.00	24.05	109	86	Vertical
2	5595.1038	47.32	-41.46	32.56	-56.84	-25.00	31.84	121	259	Vertical
3	7851.194	44.64	-37.68	36.79	-51.51	-25.00	26.51	136	246	Vertical
4	9901.4761	43.22	-35.00	38.60	-48.44	-25.00	23.44	348	218	Vertical
5	11029.5212	44.10	-37.16	40.13	-48.19	-25.00	23.19	241	246	Vertical
6	15202.6881	41.96	-35.31	39.71	-48.90	-25.00	23.90	145	286	Vertical



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Test Band = LTE\_7\_TM1\_20MHz  
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	2999.5555	39.09	-21.77	28.60	-49.34	-25.00	24.34	180	294	Horizontal
2	5598.1039	47.33	-41.45	32.58	-56.80	-25.00	31.80	111	228	Horizontal
3	9754.4702	43.06	-36.00	38.32	-49.88	-25.00	24.88	245	147	Horizontal
4	11841.9537	44.73	-39.26	39.84	-49.95	-25.00	24.95	145	56	Horizontal
5	15191.8877	42.28	-35.61	39.75	-48.84	-25.00	23.84	126	156	Horizontal
6	16410.5364	42.15	-34.90	38.85	-49.16	-25.00	24.16	108	38	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	2998.8888	39.06	-21.77	28.59	-49.38	-25.00	24.38	125	340	Vertical
2	4798.872	47.67	-42.95	30.79	-59.75	-25.00	34.75	251	241	Vertical
3	6481.9393	45.98	-40.53	34.12	-55.69	-25.00	30.69	141	350	Vertical
4	9882.8753	42.78	-35.09	38.46	-49.11	-25.00	24.11	236	138	Vertical
5	13469.2188	43.48	-38.24	39.81	-50.21	-25.00	25.21	147	93	Vertical
6	16494.5398	42.26	-35.58	39.27	-49.31	-25.00	24.31	210	61	Vertical



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Test Band = LTE\_7\_TM1\_20MHz  
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	2997.9998	39.01	-21.77	28.59	-49.43	-25.00	24.43	170	188	Horizontal
2	5063.4825	48.11	-42.59	31.57	-58.17	-25.00	33.17	241	300	Horizontal
3	7714.9886	44.63	-37.61	36.68	-51.56	-25.00	26.56	361	115	Horizontal
4	9905.0762	43.37	-35.09	38.61	-48.37	-25.00	23.37	154	146	Horizontal
5	15224.889	41.84	-35.52	39.75	-49.19	-25.00	24.19	220	88	Horizontal
6	16480.7392	42.29	-35.47	39.20	-49.24	-25.00	24.24	290	133	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	2999.111	39.34	-21.77	28.59	-49.10	-25.00	24.10	261	342	Vertical
2	4378.2551	48.12	-43.40	30.01	-60.53	-25.00	35.53	361	309	Vertical
3	8490.2196	44.00	-36.51	36.48	-51.29	-25.00	26.29	399	272	Vertical
4	9888.2755	43.19	-35.05	38.51	-48.61	-25.00	23.61	105	83	Vertical
5	15188.2875	42.09	-35.75	39.77	-49.15	-25.00	24.15	248	24	Vertical
6	16484.3394	42.38	-35.49	39.22	-49.15	-25.00	24.15	361	286	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

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band7	20MHz	QPSK	21100	100RB#0	VL	NT	-2.68	-0.001057	PASS
Band7	20MHz	QPSK	21100	100RB#0	VN	NT	-9.70	-0.003826	PASS
Band7	20MHz	QPSK	21100	100RB#0	VH	NT	-11.90	-0.004694	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band7	20MHz	QPSK	21100	100RB#0	NV	-30	7.11	0.002805	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-20	10.93	0.004312	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-10	-14.73	-0.005811	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	0	-8.05	-0.003176	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	10	10.34	0.004079	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	20	-12.09	-0.004769	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	30	-6.90	-0.002722	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	40	9.14	0.003606	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	50	6.27	0.002473	PASS

---End of Attachment---



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