Appendix B

E-UTRA Band 7

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1 Effective (Isotropic) Radiated Power

1.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	22.89	24.89	33.00	PASS
Band7	5MHz	QPSK	20775	1RB#12	23.01	25.01	33.00	PASS
Band7	5MHz	QPSK	20775	1RB#24	22.86	24.86	33.00	PASS
Band7	5MHz	QPSK	20775	12RB#0	22.08	24.08	33.00	PASS
Band7	5MHz	QPSK	20775	12RB#6	22.04	24.04	33.00	PASS
Band7	5MHz	QPSK	20775	12RB#13	22.13	24.13	33.00	PASS
Band7	5MHz	QPSK	20775	25RB#0	22.06	24.06	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#0	23.02	25.02	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#24	23.16	25.16	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#12	22.90	24.90	33.00	PASS
Band7	5MHz	QPSK	21100	12RB#0	22.32	24.32	33.00	PASS
Band7	5MHz	QPSK	21100	12RB#6	22.23	24.23	33.00	PASS
Band7	5MHz	QPSK	21100	12RB#13	22.27	24.27	33.00	PASS
Band7	5MHz	QPSK	21100	25RB#0	22.22	24.22	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#24	22.84	24.84	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#0	22.95	24.95	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#12	22.78	24.78	33.00	PASS
Band7	5MHz	QPSK	21425	12RB#0	21.97	23.97	33.00	PASS
Band7	5MHz	QPSK	21425	12RB#6	21.87	23.87	33.00	PASS
Band7	5MHz	QPSK	21425	12RB#13	21.89	23.89	33.00	PASS
Band7	5MHz	QPSK	21425	25RB#0	21.90	23.90	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#0	22.48	24.48	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#12	21.85	23.85	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#24	22.16	24.16	33.00	PASS
Band7	5MHz	16QAM	20775	12RB#6	21.02	23.02	33.00	PASS
Band7	5MHz	16QAM	20775	12RB#0	21.13	23.13	33.00	PASS
Band7	5MHz	16QAM	20775	12RB#13	21.17	23.17	33.00	PASS
Band7	5MHz	16QAM	20775	25RB#0	21.15	23.15	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#0	22.44	24.44	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#12	22.30	24.30	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#24	22.41	24.41	33.00	PASS
Band7	5MHz	16QAM	21100	12RB#13	21.33	23.33	33.00	PASS
Band7	5MHz	16QAM	21100	12RB#0	21.34	23.34	33.00	PASS
Band7	5MHz	16QAM	21100	12RB#6	21.30	23.30	33.00	PASS
Band7	5MHz	16QAM	21100	25RB#0	21.24	23.24	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#12	22.05	24.05	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#0	22.33	24.33	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#24	21.75	23.75	33.00	PASS

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Band7	5MHz	16QAM	21425	12RB#0	21.03	23.03	33.00	PASS
Band7	5MHz	16QAM	21425	12RB#6	20.98	22.98	33.00	PASS
Band7	5MHz	16QAM	21425	12RB#13	20.93	22.93	33.00	PASS
Band7	5MHz	16QAM	21425	25RB#0	20.88	22.88	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#24	22.78	24.78	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#49	23.18	25.18	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#0	22.90	24.90	33.00	PASS
Band7	10MHz	QPSK	20800	25RB#0	22.10	24.10	33.00	PASS
Band7	10MHz	QPSK	20800	25RB#12	22.16	24.16	33.00	PASS
Band7	10MHz	QPSK	20800	25RB#25	22.34	24.34	33.00	PASS
Band7	10MHz	QPSK	20800	50RB#0	22.21	24.21	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#0	23.15	25.15	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#49	23.24	25.24	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#24	23.17	25.17	33.00	PASS
Band7	10MHz	QPSK	21100	25RB#25	22.39	24.39	33.00	PASS
Band7	10MHz	QPSK	21100	25RB#0	22.33	24.33	33.00	PASS
Band7	10MHz	QPSK	21100	25RB#12	22.33	24.33	33.00	PASS
Band7	10MHz	QPSK	21100	50RB#0	22.42	24.42	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#24	22.92	24.92	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#0	23.09	25.09	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#49	22.82	24.82	33.00	PASS
Band7	10MHz	QPSK	21400	25RB#0	22.02	24.02	33.00	PASS
Band7	10MHz	QPSK	21400	25RB#25	22.02	24.02	33.00	PASS
Band7	10MHz	QPSK	21400	25RB#12	22.00	24.00	33.00	PASS
Band7	10MHz	QPSK	21400	50RB#0	22.12	24.12	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#49	21.91	23.91	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#0	22.21	24.21	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#24	22.30	24.30	33.00	PASS
Band7	10MHz	16QAM	20800	25RB#25	21.11	23.11	33.00	PASS
Band7	10MHz	16QAM	20800	25RB#12	21.29	23.29	33.00	PASS
Band7	10MHz	16QAM	20800	25RB#0	21.27	23.27	33.00	PASS
Band7	10MHz	16QAM	20800	50RB#0	21.15	23.15	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#49	22.45	24.45	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#0	22.32	24.32	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#24	22.31	24.31	33.00	PASS
Band7	10MHz	16QAM	21100	25RB#25	21.38	23.38	33.00	PASS
Band7	10MHz	16QAM	21100	25RB#0	21.37	23.37	33.00	PASS
Band7	10MHz	16QAM	21100	25RB#12	21.38	23.38	33.00	PASS
Band7	10MHz	16QAM	21100	50RB#0	21.37	23.37	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#24	22.31	24.31	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#0	21.98	23.98	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#49	21.91	23.91	33.00	PASS
Band7	10MHz	16QAM	21400	25RB#0	20.99	22.99	33.00	PASS
Band7	10MHz	16QAM	21400	25RB#12	21.06	23.06	33.00	PASS
Band7	10MHz	16QAM	21400	25RB#25	21.08	23.08	33.00	PASS
Band7	10MHz	16QAM	21400	50RB#0	21.11	23.11	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#0	22.78	24.78	33.00	PASS

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Band7	15MHz	QPSK	20825	1RB#38	23.02	25.02	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#74	22.95	24.95	33.00	PASS
Band7	15MHz	QPSK	20825	36RB#0	22.14	24.14	33.00	PASS
Band7	15MHz	QPSK	20825	36RB#18	22.21	24.21	33.00	PASS
Band7	15MHz	QPSK	20825	36RB#39	22.26	24.26	33.00	PASS
Band7	15MHz	QPSK	20825	75RB#0	22.24	24.24	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#0	23.07	25.07	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#74	23.06	25.06	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#38	23.02	25.02	33.00	PASS
Band7	15MHz	QPSK	21100	36RB#0	22.39	24.39	33.00	PASS
Band7	15MHz	QPSK	21100	36RB#18	22.34	24.34	33.00	PASS
Band7	15MHz	QPSK	21100	36RB#39	22.31	24.31	33.00	PASS
Band7	15MHz	QPSK	21100	75RB#0	22.27	24.27	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#74	22.95	24.95	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#0	22.99	24.99	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#38	22.69	24.69	33.00	PASS
Band7	15MHz	QPSK	21375	36RB#0	22.21	24.21	33.00	PASS
Band7	15MHz	QPSK	21375	36RB#18	22.11	24.11	33.00	PASS
Band7	15MHz	QPSK	21375	36RB#39	21.94	23.94	33.00	PASS
Band7	15MHz	QPSK	21375	75RB#0	22.08	24.08	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#0	21.93	23.93	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#38	22.29	24.29	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#74	22.03	24.03	33.00	PASS
Band7	15MHz	16QAM	20825	36RB#18	21.07	23.07	33.00	PASS
Band7	15MHz	16QAM	20825	36RB#0	21.18	23.18	33.00	PASS
Band7	15MHz	16QAM	20825	36RB#39	21.07	23.07	33.00	PASS
Band7	15MHz	16QAM	20825	75RB#0	21.26	23.26	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#0	22.32	24.32	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#38	22.45	24.45	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#74	22.35	24.35	33.00	PASS
Band7	15MHz	16QAM	21100	36RB#39	21.32	23.32	33.00	PASS
Band7	15MHz	16QAM	21100	36RB#0	21.40	23.40	33.00	PASS
Band7	15MHz	16QAM	21100	36RB#18	21.35	23.35	33.00	PASS
Band7	15MHz	16QAM	21100	75RB#0	21.38	23.38	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#38	22.15	24.15	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#0	22.10	24.10	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#74	21.93	23.93	33.00	PASS
Band7	15MHz	16QAM	21375	36RB#0	21.03	23.03	33.00	PASS
Band7	15MHz	16QAM	21375	36RB#18	21.03	23.03	33.00	PASS
Band7	15MHz	16QAM	21375	36RB#39	20.99	22.99	33.00	PASS
Band7	15MHz	16QAM	21375	75RB#0	21.12	23.12	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#99	22.77	24.77	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#49	23.14	25.14	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#0	22.86	24.86	33.00	PASS
Band7	20MHz	QPSK	20850	50RB#0	22.11	24.11	33.00	PASS
Band7	20MHz	QPSK	20850	50RB#25	22.28	24.28	33.00	PASS
Band7	20MHz	QPSK	20850	50RB#50	22.33	24.33	33.00	PASS

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Band7	20MHz	QPSK	20850	100RB#0	22.16	24.16	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#0	22.80	24.80	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#99	23.08	25.08	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#49	22.79	24.79	33.00	PASS
Band7	20MHz	QPSK	21100	50RB#50	22.37	24.37	33.00	PASS
Band7	20MHz	QPSK	21100	50RB#0	22.35	24.35	33.00	PASS
Band7	20MHz	QPSK	21100	50RB#25	22.31	24.31	33.00	PASS
Band7	20MHz	QPSK	21100	100RB#0	22.29	24.29	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#49	23.02	25.02	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#0	22.99	24.99	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#99	22.63	24.63	33.00	PASS
Band7	20MHz	QPSK	21350	50RB#0	22.27	24.27	33.00	PASS
Band7	20MHz	QPSK	21350	50RB#50	22.17	24.17	33.00	PASS
Band7	20MHz	QPSK	21350	50RB#25	21.96	23.96	33.00	PASS
Band7	20MHz	QPSK	21350	100RB#0	22.06	24.06	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#99	22.35	24.35	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#0	22.32	24.32	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#49	22.15	24.15	33.00	PASS
Band7	20MHz	16QAM	20850	50RB#50	21.15	23.15	33.00	PASS
Band7	20MHz	16QAM	20850	50RB#25	21.25	23.25	33.00	PASS
Band7	20MHz	16QAM	20850	50RB#0	21.20	23.20	33.00	PASS
Band7	20MHz	16QAM	20850	100RB#0	21.25	23.25	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#99	22.16	24.16	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#0	22.14	24.14	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#49	22.46	24.46	33.00	PASS
Band7	20MHz	16QAM	21100	50RB#50	21.39	23.39	33.00	PASS
Band7	20MHz	16QAM	21100	50RB#0	21.40	23.40	33.00	PASS
Band7	20MHz	16QAM	21100	50RB#25	21.40	23.40	33.00	PASS
Band7	20MHz	16QAM	21100	100RB#0	21.38	23.38	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#49	22.03	24.03	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#0	22.13	24.13	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#99	22.23	24.23	33.00	PASS
Band7	20MHz	16QAM	21350	50RB#0	21.26	23.26	33.00	PASS
Band7	20MHz	16QAM	21350	50RB#25	21.09	23.09	33.00	PASS
Band7	20MHz	16QAM	21350	50RB#50	20.92	22.92	33.00	PASS
Band7	20MHz	16QAM	21350	100RB#0	21.08	23.08	33.00	PASS

Remark:

a: For getting the EIRP (Efficient Isotropic Radiated Power), the following formula should be taken to calculate it,

ERP [dBm] = Conducted Power [dBm] + Gain [dBd]

EIRP [dBm] = Conducted Power [dBm] + Gain [dBi]

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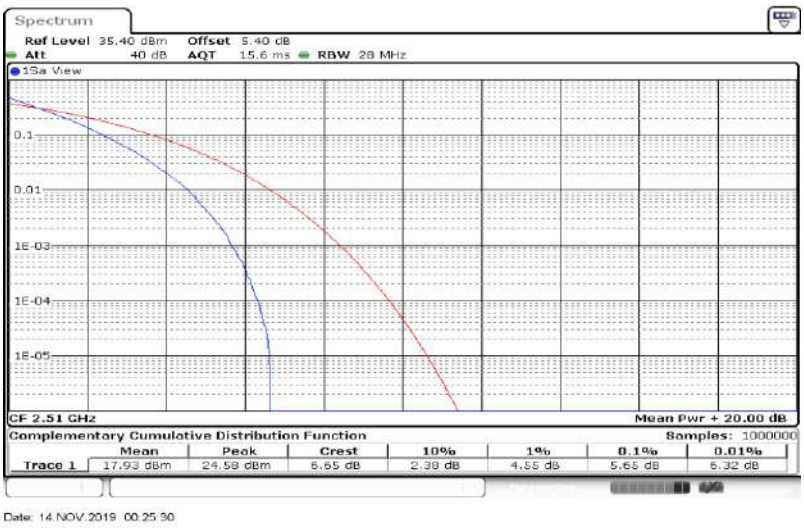
2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band7	20MHz	QPSK	20850	100RB#0	5.65	13	PASS
Band7	20MHz	QPSK	21100	100RB#0	5.88	13	PASS
Band7	20MHz	QPSK	21350	100RB#0	5.88	13	PASS
Band7	20MHz	16QAM	20850	100RB#0	6.29	13	PASS
Band7	20MHz	16QAM	21100	100RB#0	6.58	13	PASS
Band7	20MHz	16QAM	21350	100RB#0	6.41	13	PASS

2.2. Test Plots

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



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

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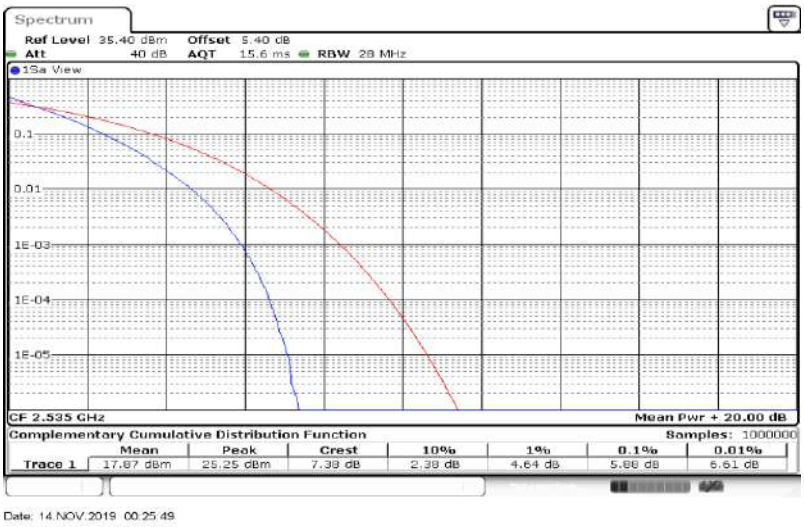
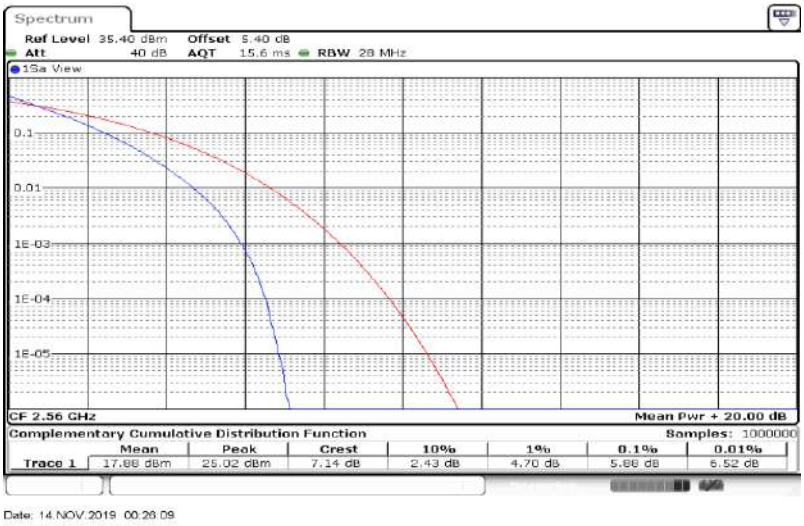


Band7-20MHz-QPSK-21350-100RB#0



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

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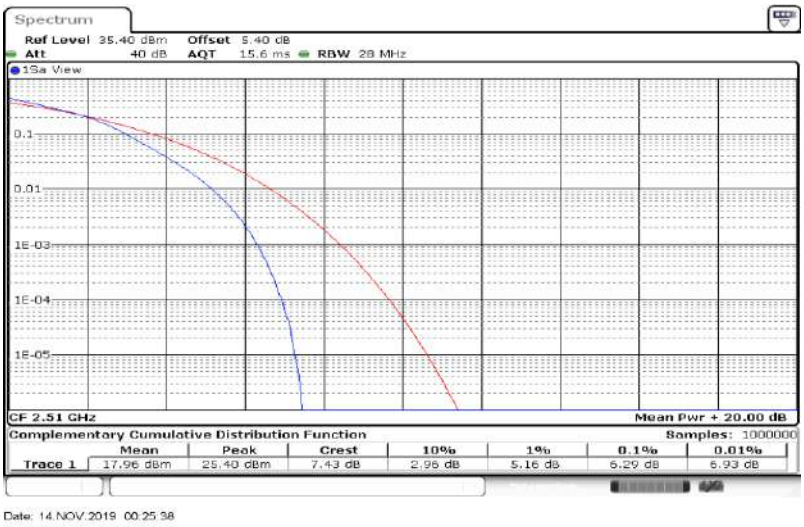
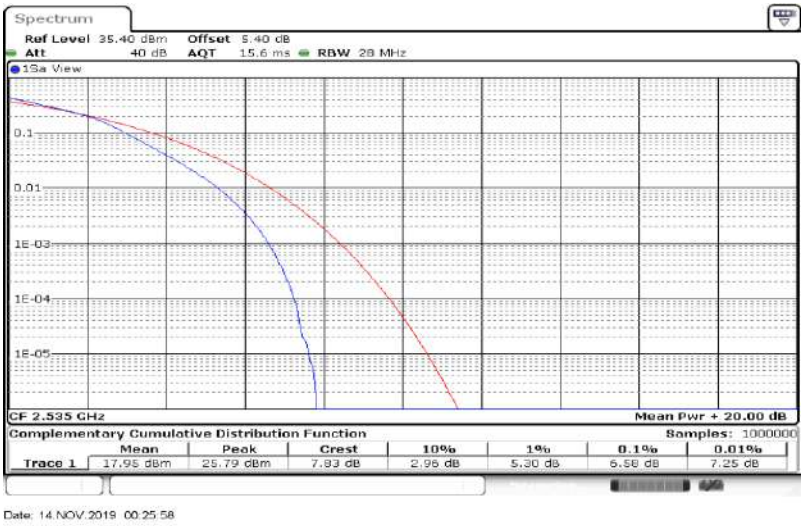


Band7-20MHz-16QAM-21100-100RB#0



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

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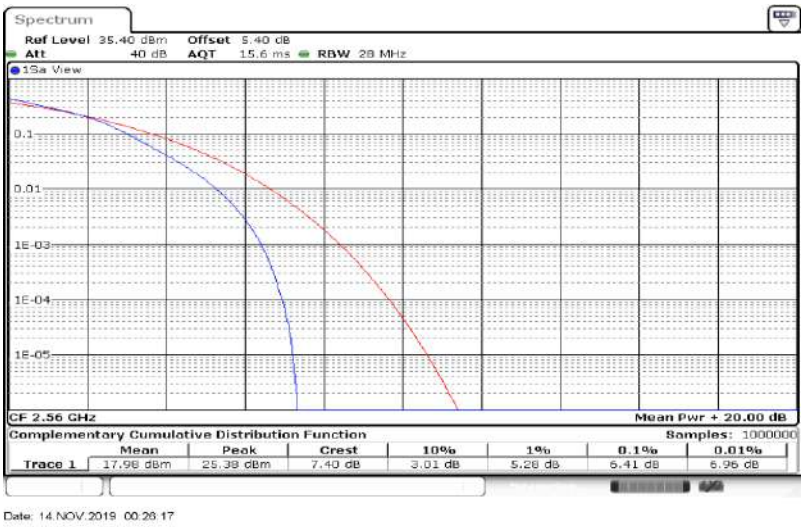

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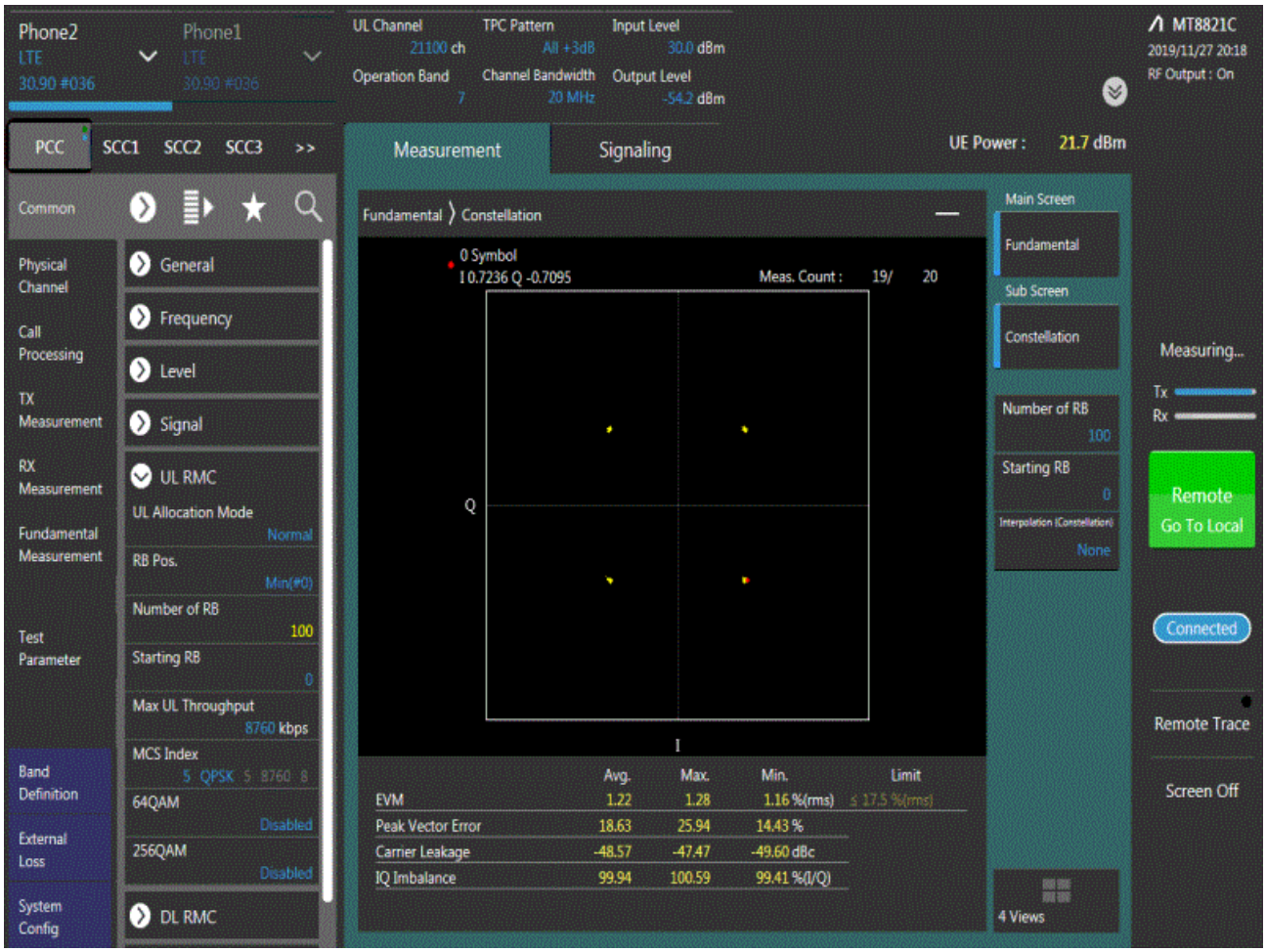
3. Modulation Characteristics

3.1. Test Band = LTE Band 7

3.1.1. Test Mode = LTE /TM1 20MHz

3.1.1.1. Test Channel = MCH



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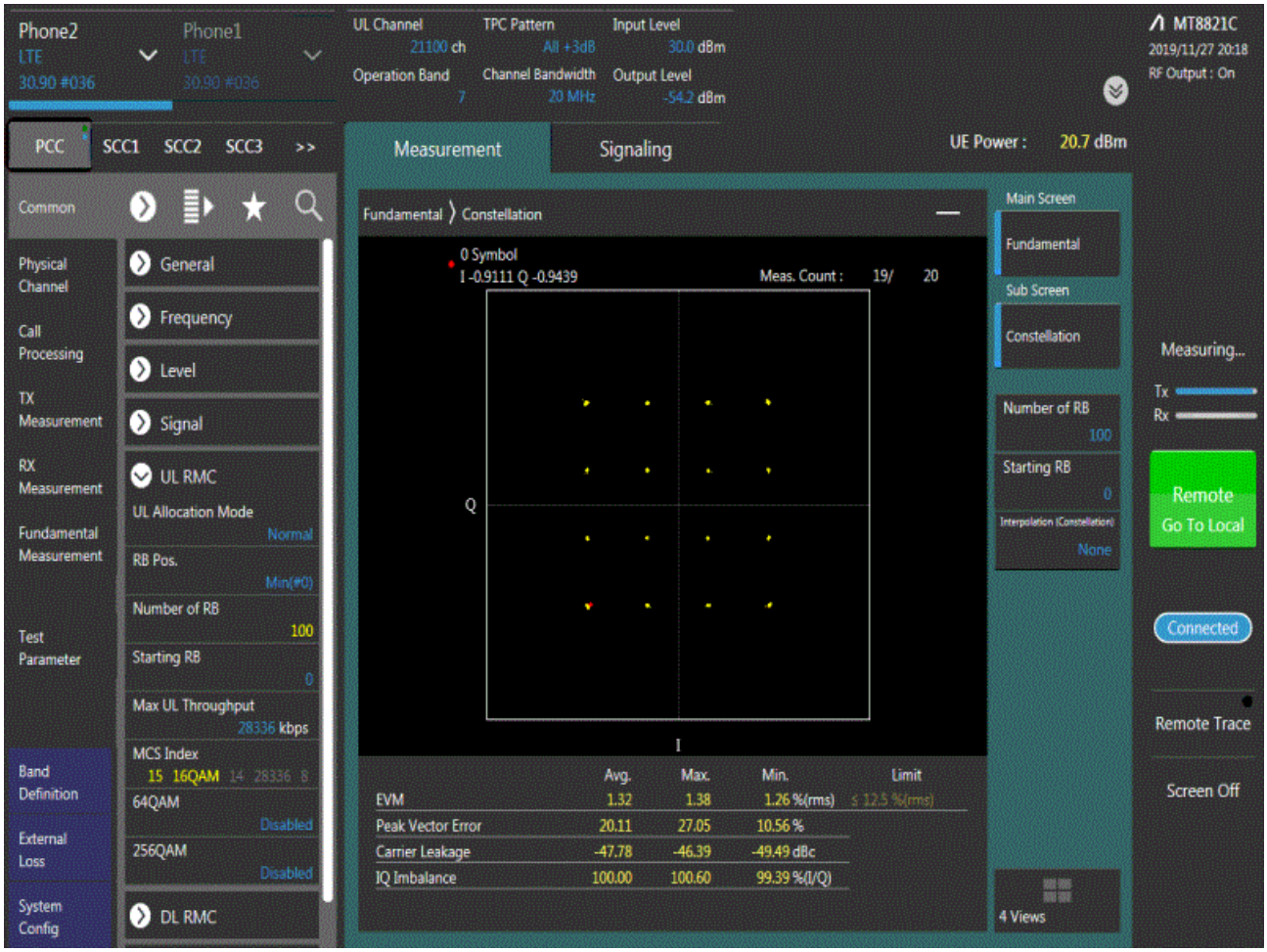
3.1.2. Test Mode = LTE /TM2 20MHz

3.1.2.1. Test Channel = MCH



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4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	4.476	4.870	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.466	4.840	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.486	4.860	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.466	4.800	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.466	4.880	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.476	4.860	PASS
Band7	10MHz	QPSK	20800	50RB#0	8.951	9.620	PASS
Band7	10MHz	QPSK	21100	50RB#0	8.951	9.600	PASS
Band7	10MHz	QPSK	21400	50RB#0	8.951	9.640	PASS
Band7	10MHz	16QAM	20800	50RB#0	8.911	9.620	PASS
Band7	10MHz	16QAM	21100	50RB#0	8.951	9.960	PASS
Band7	10MHz	16QAM	21400	50RB#0	8.911	9.560	PASS
Band7	15MHz	QPSK	20825	75RB#0	13.457	14.820	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.427	14.910	PASS
Band7	15MHz	QPSK	21375	75RB#0	13.487	15.030	PASS
Band7	15MHz	16QAM	20825	75RB#0	13.457	14.940	PASS
Band7	15MHz	16QAM	21100	75RB#0	13.487	15.840	PASS
Band7	15MHz	16QAM	21375	75RB#0	13.457	14.760	PASS
Band7	20MHz	QPSK	20850	100RB#0	17.902	19.280	PASS
Band7	20MHz	QPSK	21100	100RB#0	17.862	19.280	PASS
Band7	20MHz	QPSK	21350	100RB#0	17.942	19.320	PASS
Band7	20MHz	16QAM	20850	100RB#0	17.902	19.240	PASS
Band7	20MHz	16QAM	21100	100RB#0	17.902	19.400	PASS
Band7	20MHz	16QAM	21350	100RB#0	17.942	19.320	PASS

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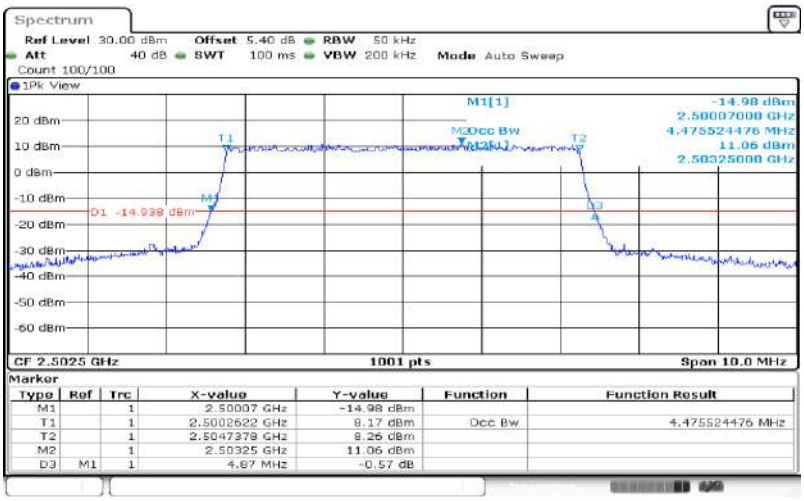
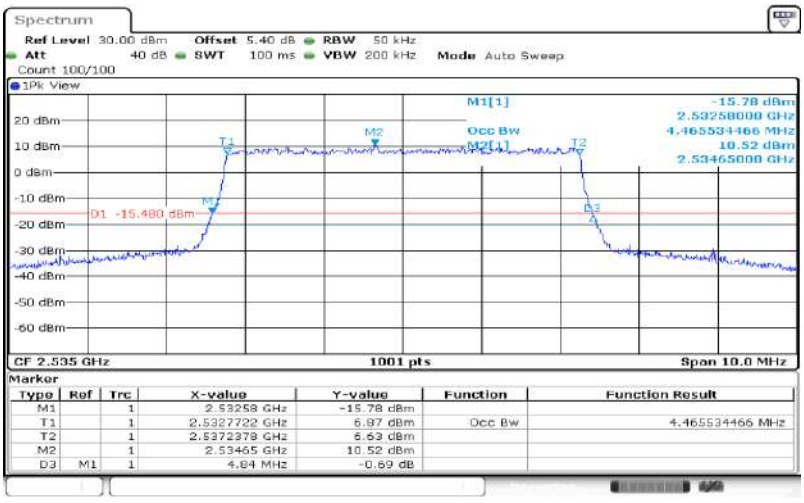
4.2. Test Plots

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



Band7-5MHz-QPSK-21100-25RB#0-4.466



Band7-5MHz-QPSK-21425-25RB#0-4.486

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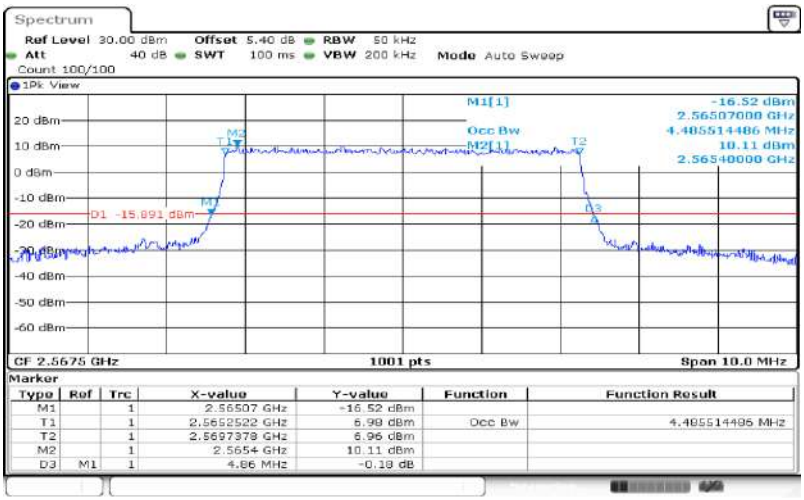
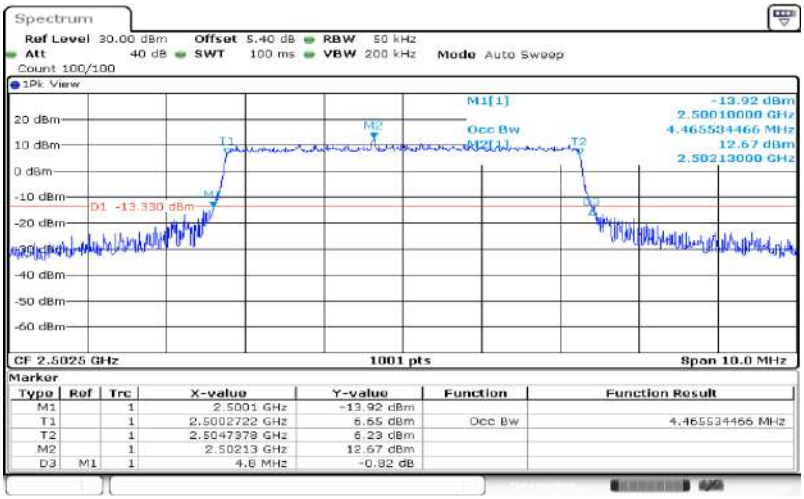


Band7-5MHz-16QAM-20775-25RB#0-4.466



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

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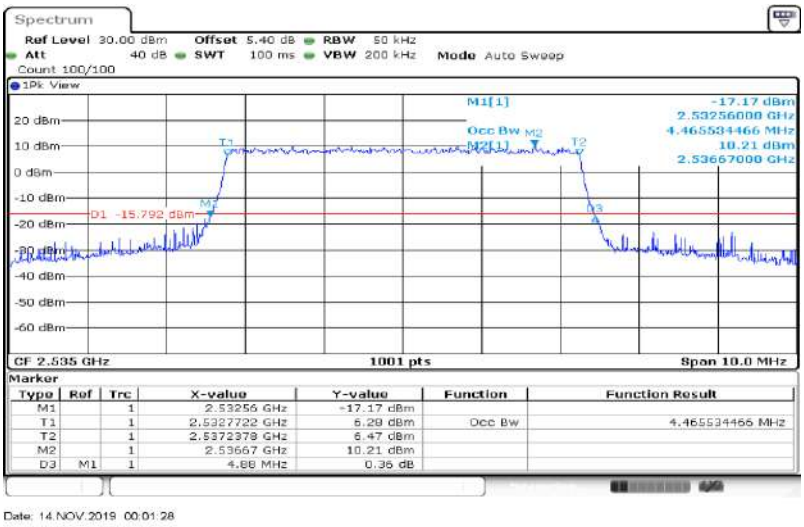
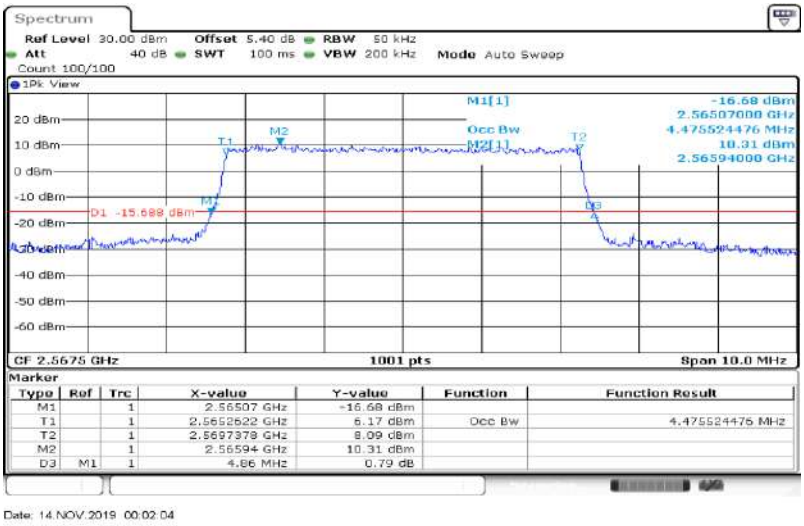


Band7-5MHz-16QAM-21425-25RB#0-4.476



Band7-10MHz-QPSK-20800-50RB#0-8.951

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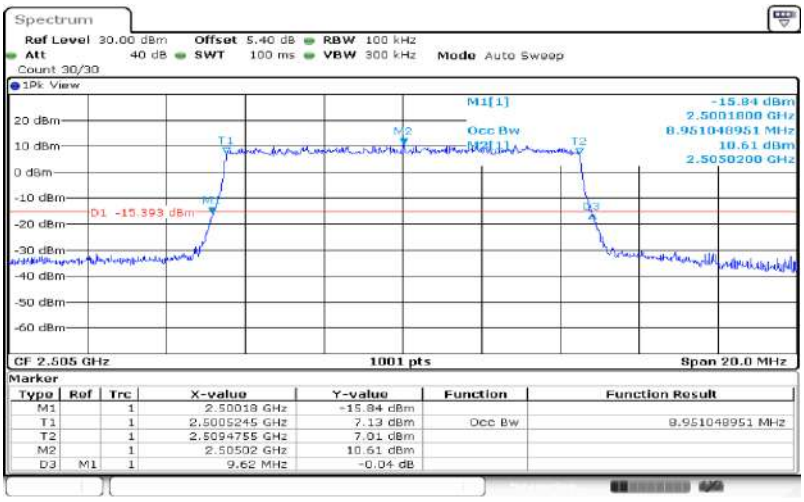
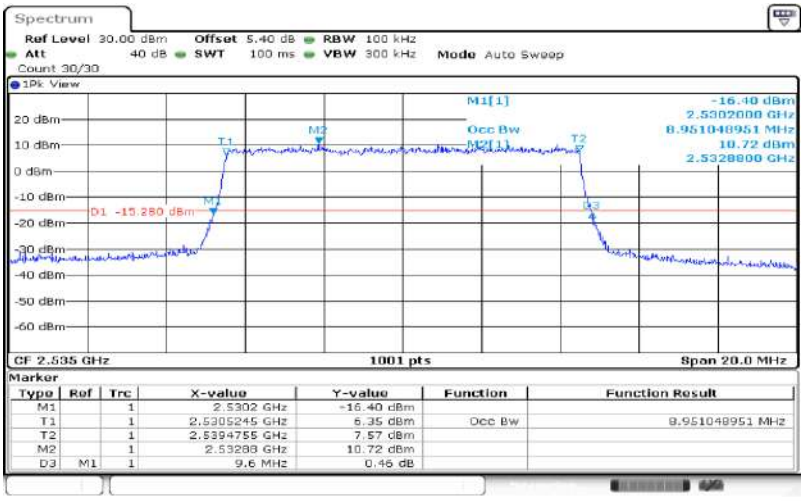


Band7-10MHz-QPSK-21100-50RB#0-8.951



Band7-10MHz-QPSK-21400-50RB#0-8.951

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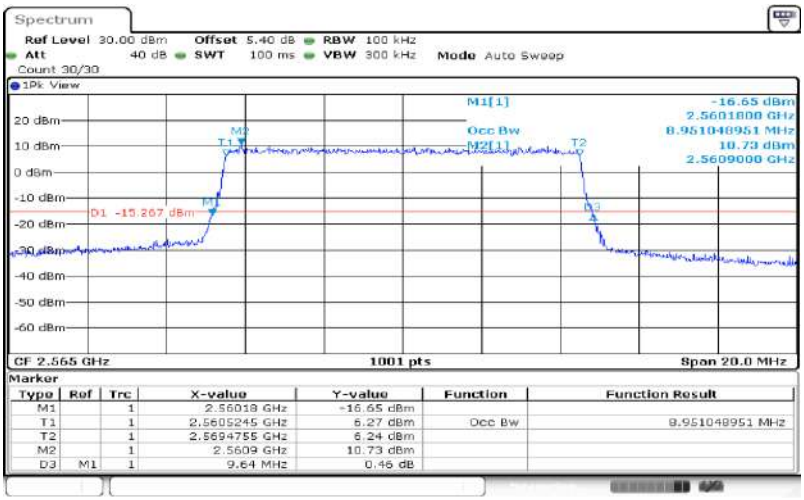
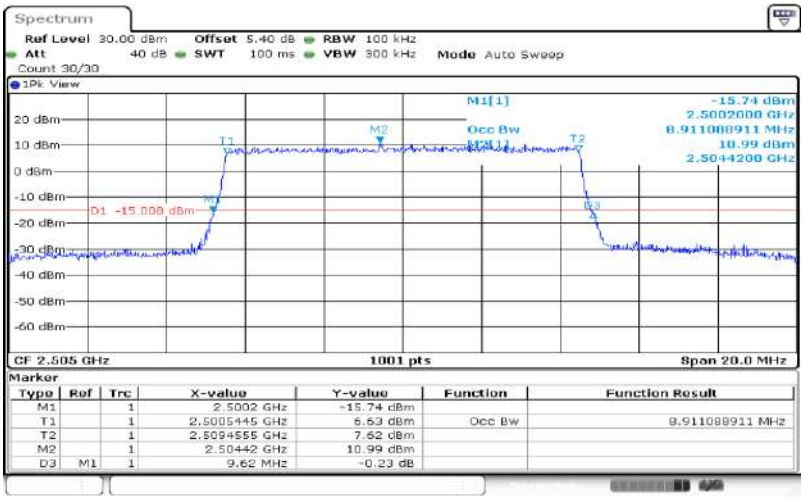


Band7-10MHz-16QAM-20800-50RB#0-8.911



Band7-10MHz-16QAM-21100-50RB#0-8.951

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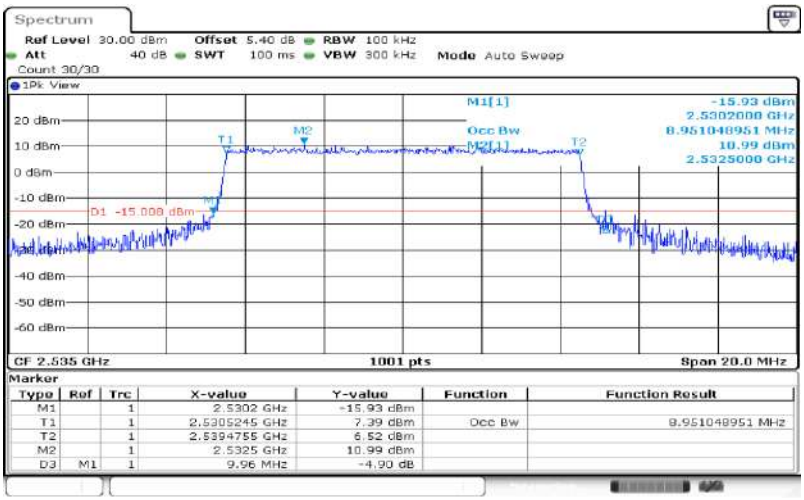

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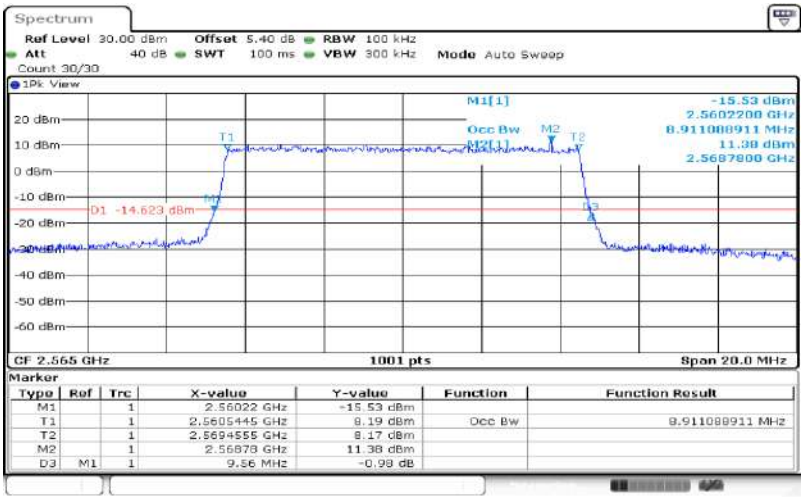

Band7-15MHz-QPSK-20825-75RB#0-13.457

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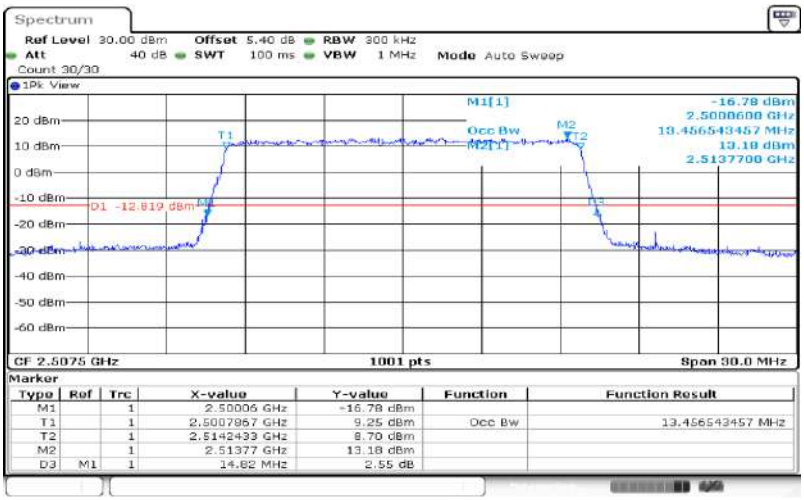

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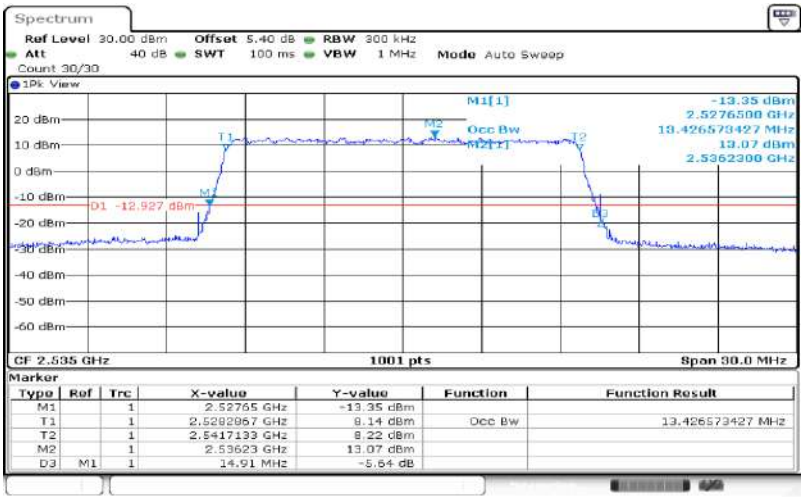

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Band7-15MHz-QPSK-21375-75RB#0-13.487

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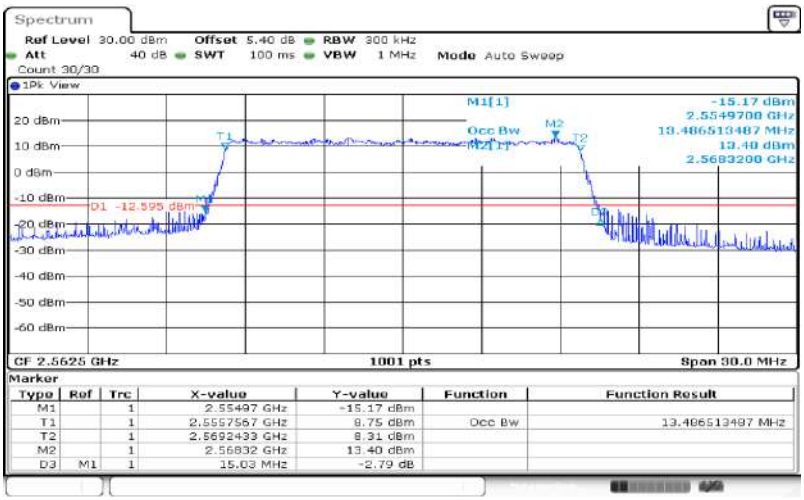

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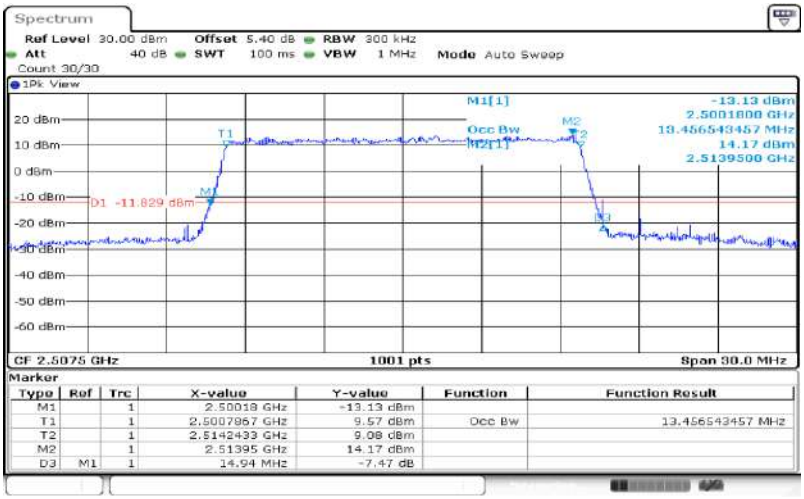

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Band7-15MHz-16QAM-21100-75RB#0-13.487

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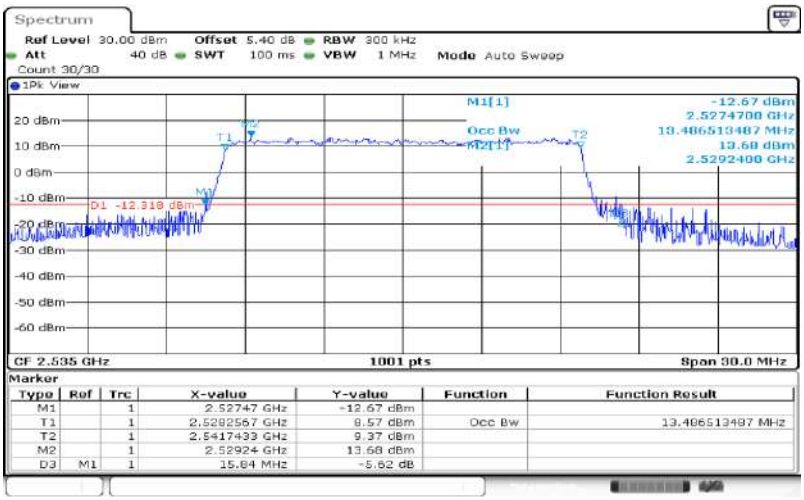

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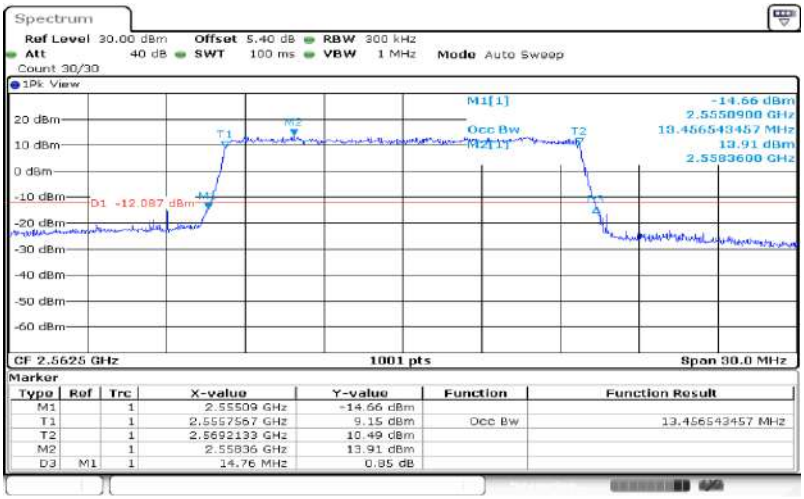

Band7-20MHz-QPSK-20850-100RB#0-17.902

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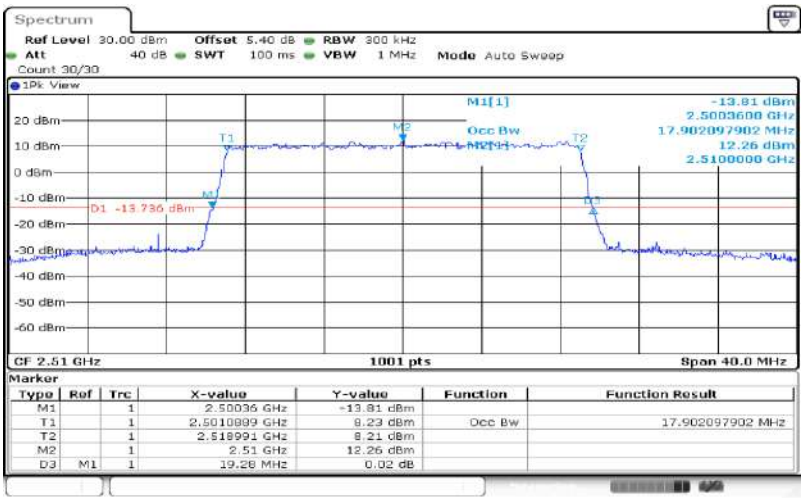

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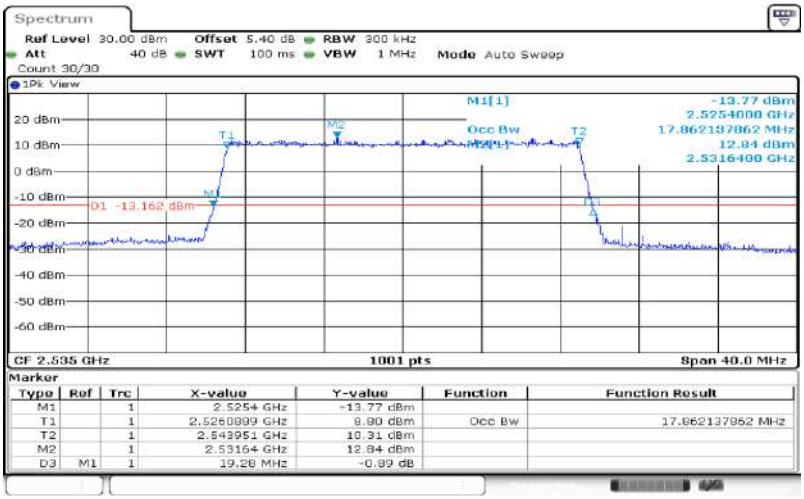

Band7-20MHz-QPSK-21350-100RB#0-17.942

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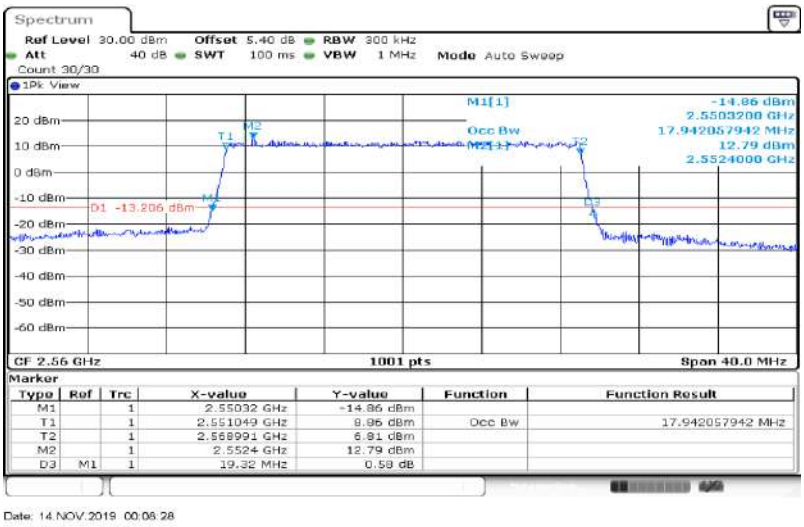

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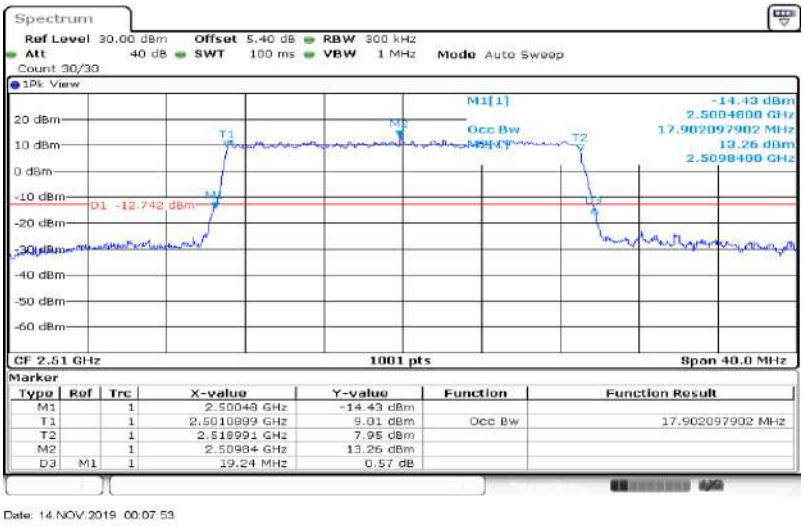

Band7-20MHz-16QAM-21100-100RB#0-17.902

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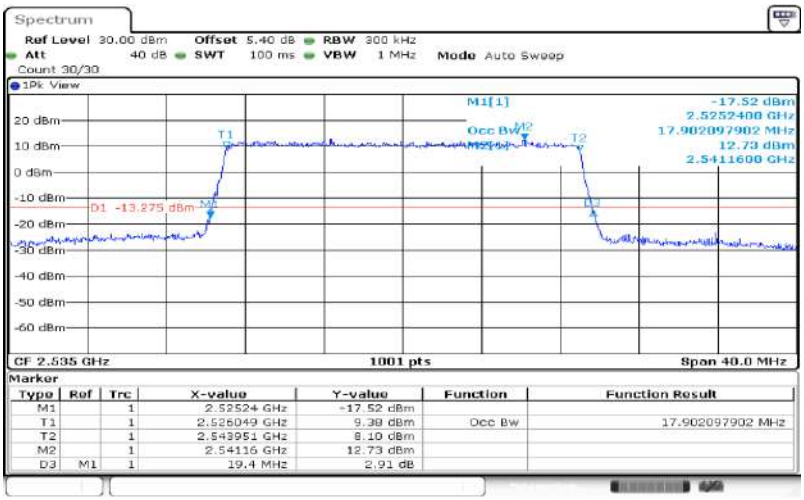

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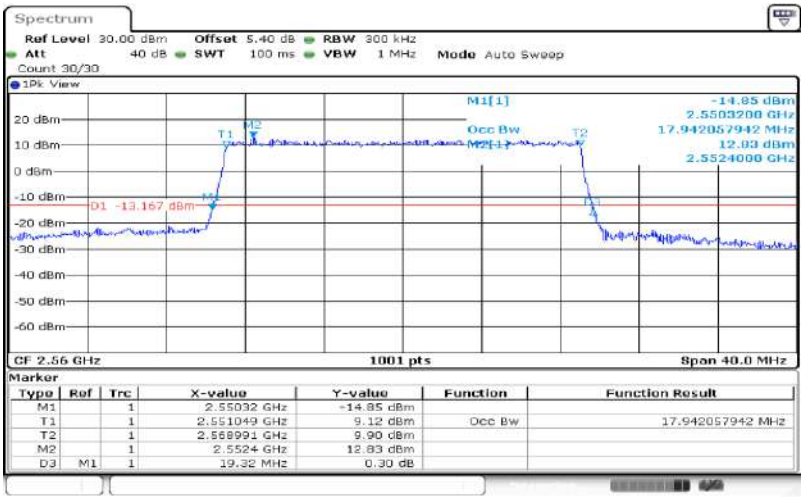

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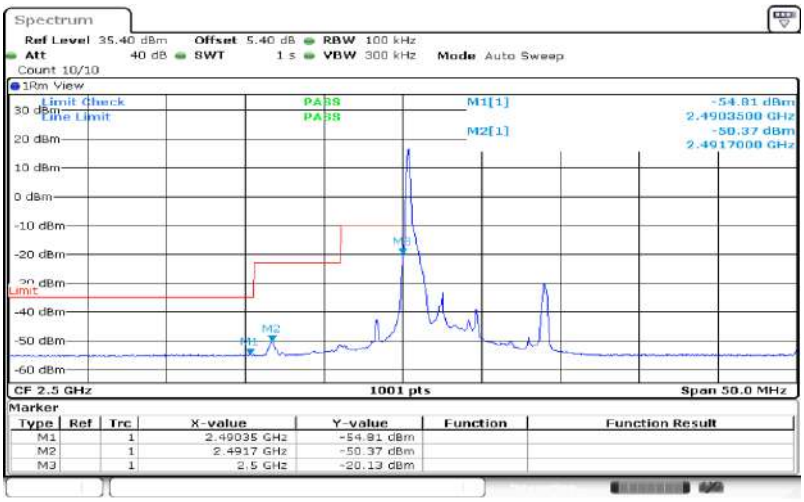
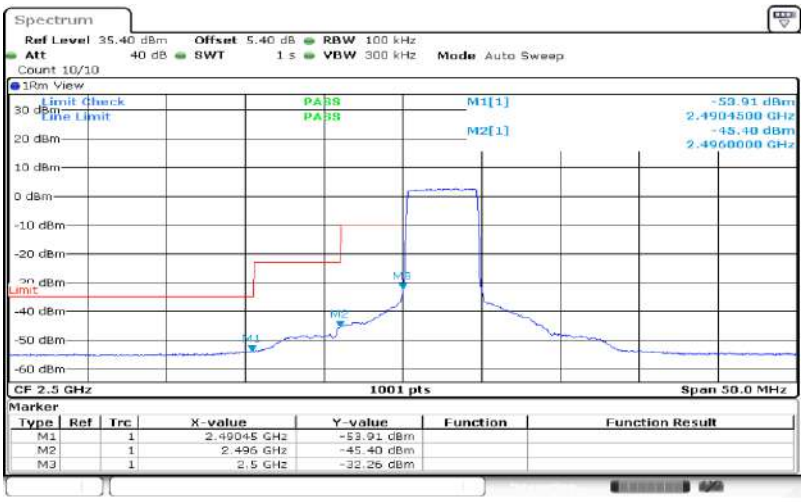
5. Band Edge Compliance

5.1. Test Plots

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



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



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

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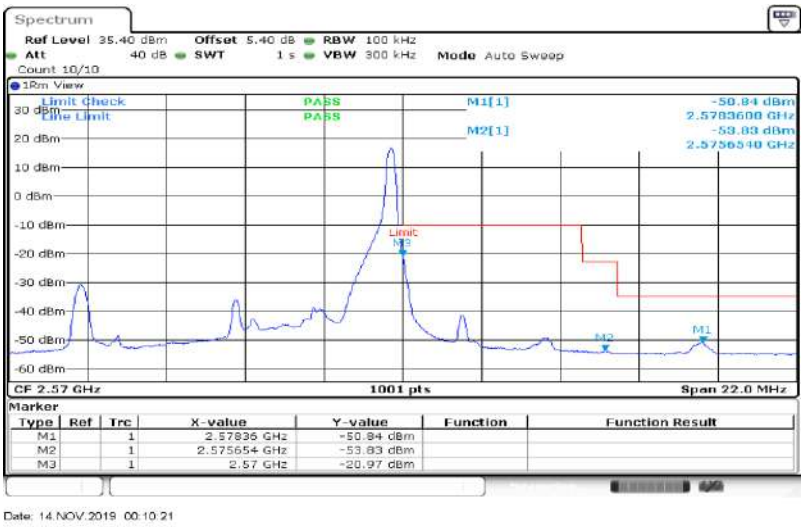

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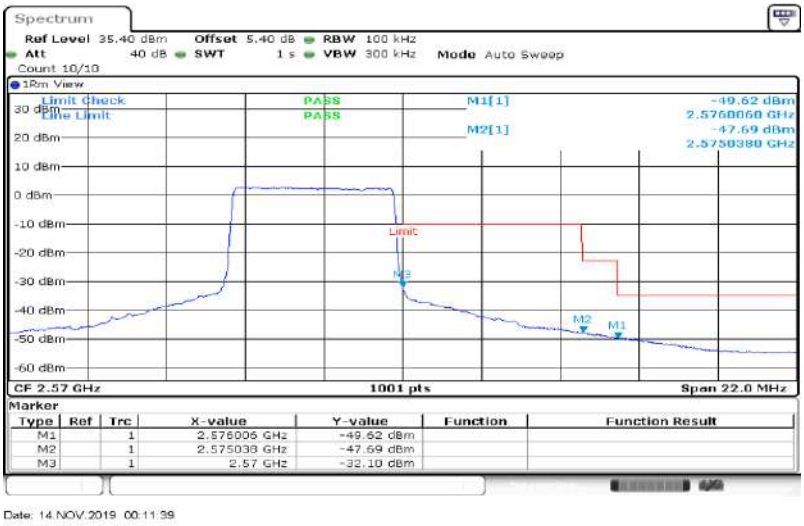

Band7-5MHz-16QAM-20775-1RB#0

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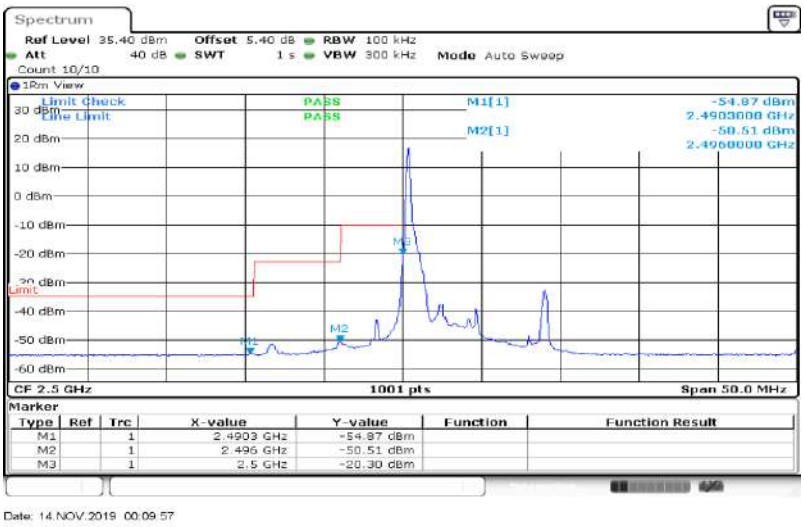

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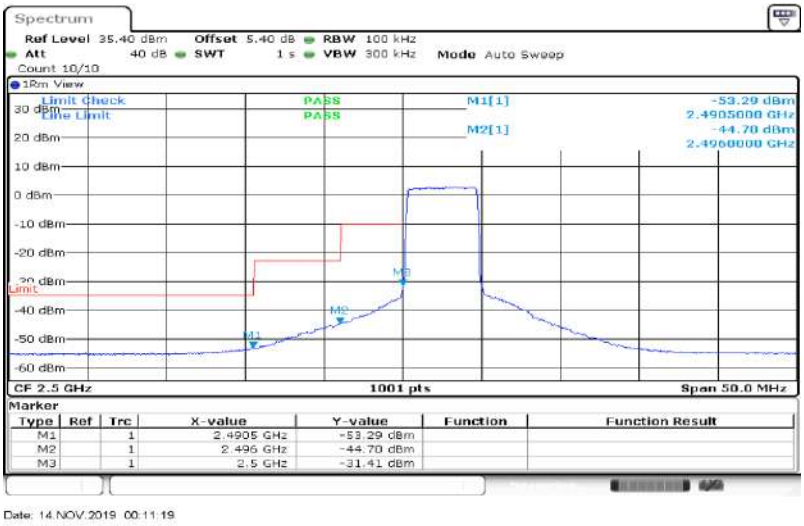

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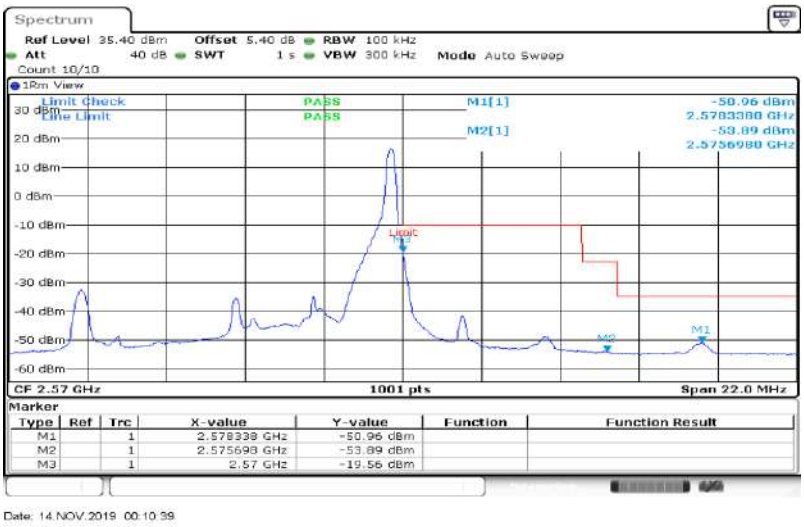

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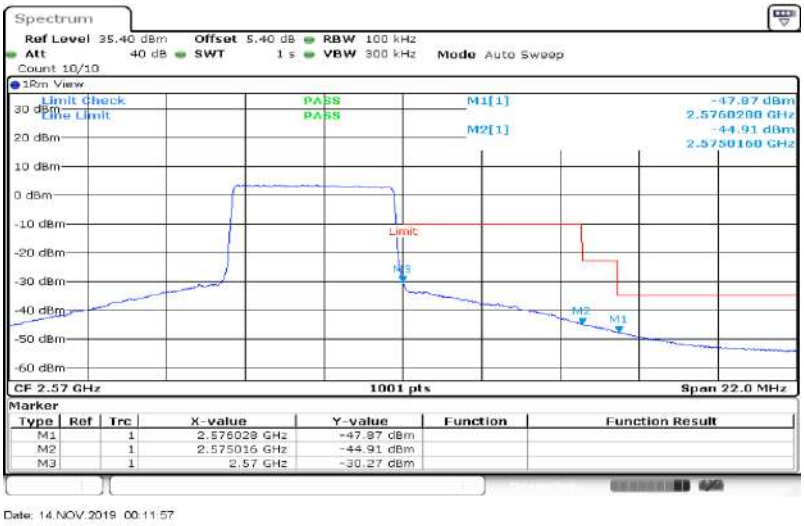

Band7-10MHz-QPSK-20800-1RB#0

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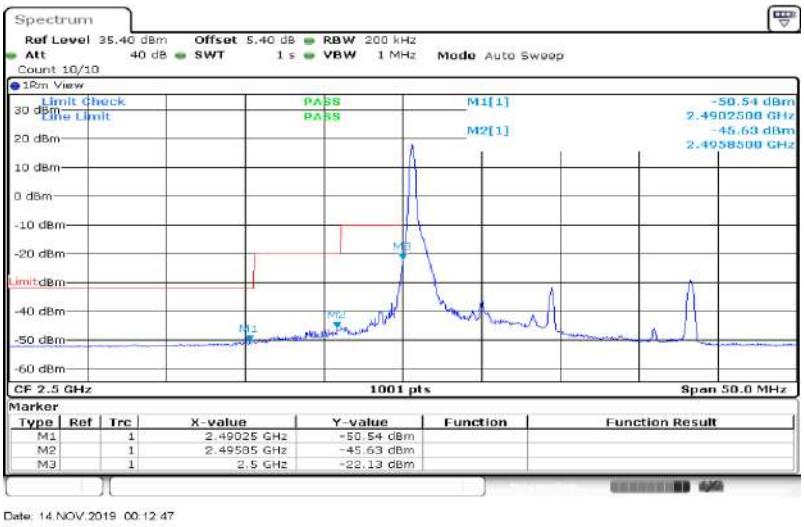

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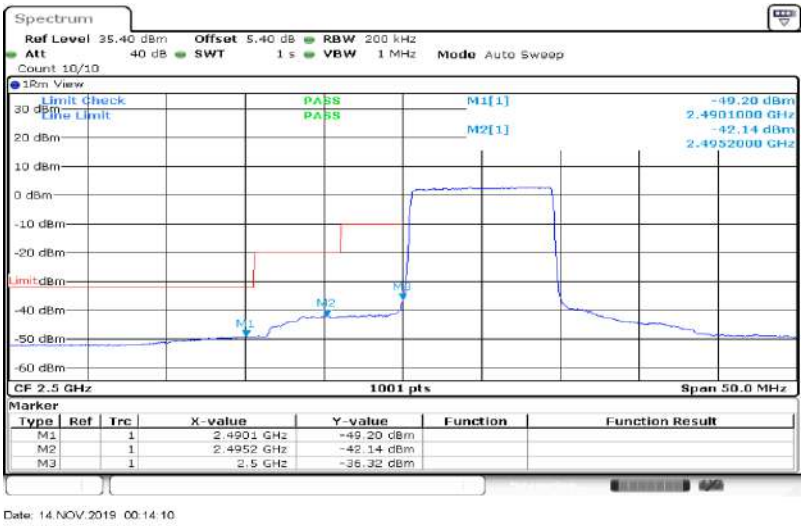

Band7-10MHz-QPSK-21400-1RB#49

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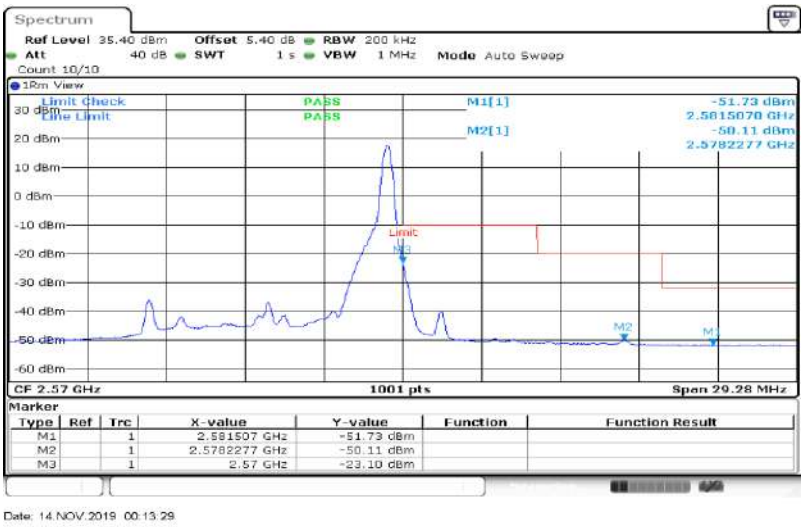
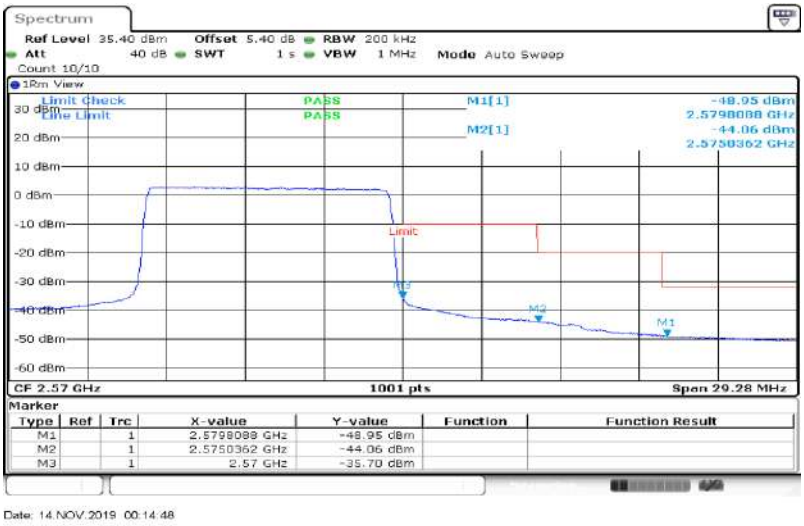


Band7-10MHz-QPSK-21400-50RB#0



Band7-10MHz-16QAM-20800-1RB#0

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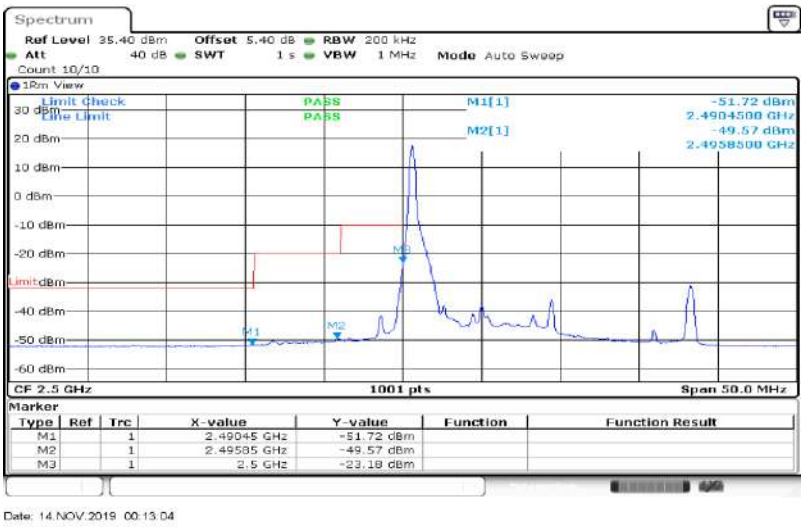

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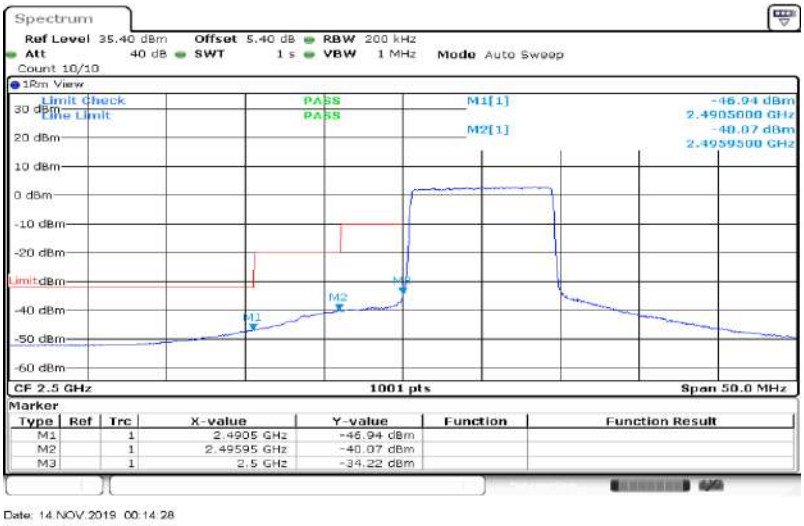

Band7-10MHz-16QAM-21400-1RB#49

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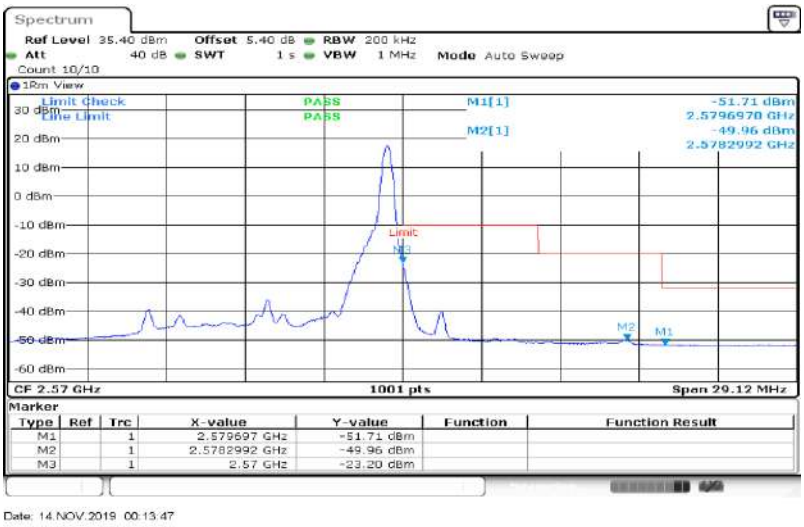

Band7-10MHz-16QAM-21400-50RB#0

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

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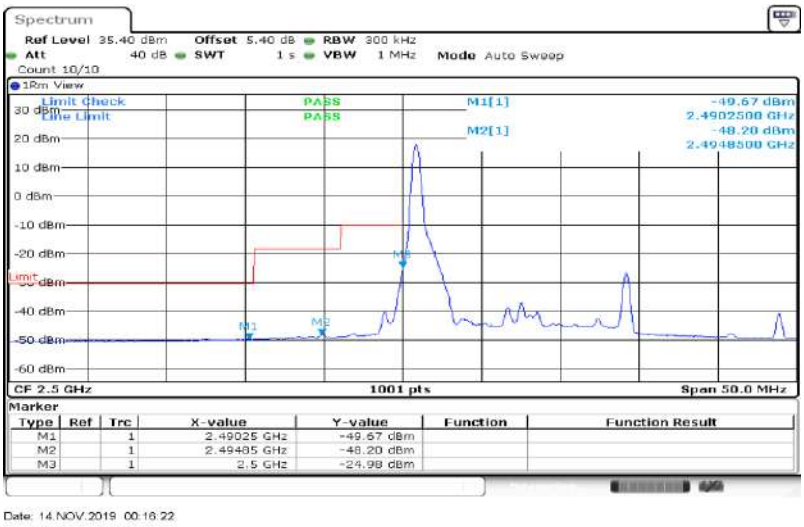
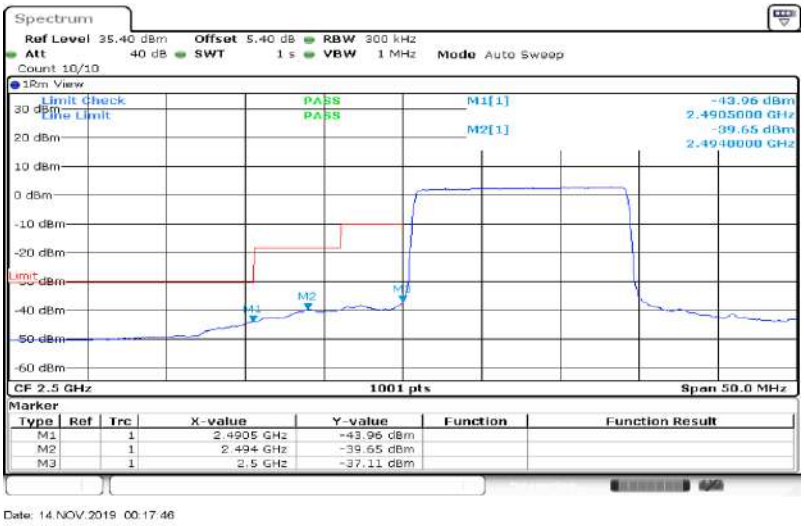


Band7-15MHz-QPSK-20825-75RB#0



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

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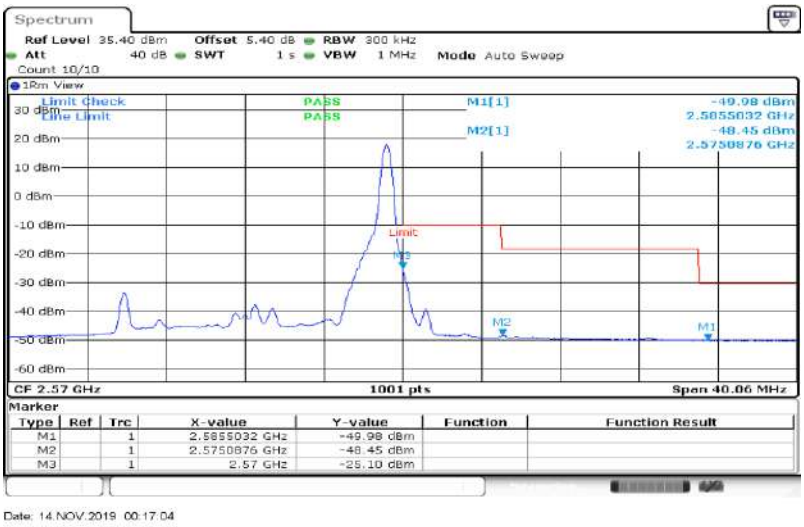

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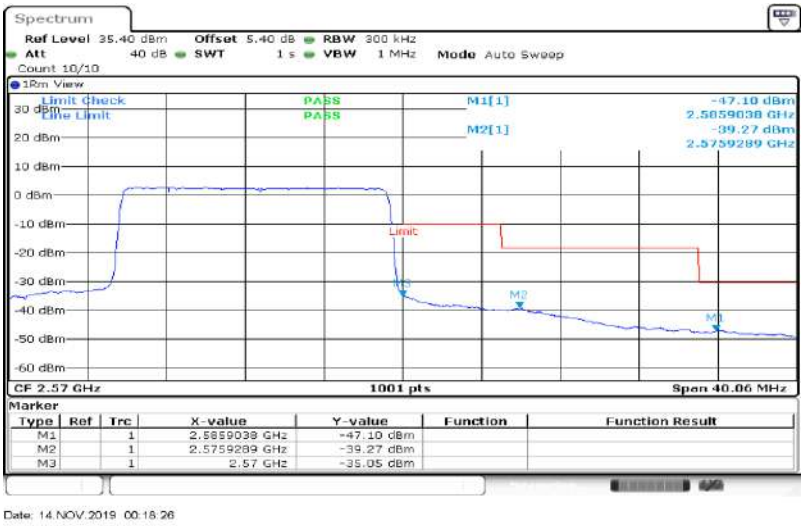
Band7-15MHz-QPSK-21375-75RB#0



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Band7-15MHz-16QAM-20825-1RB#0

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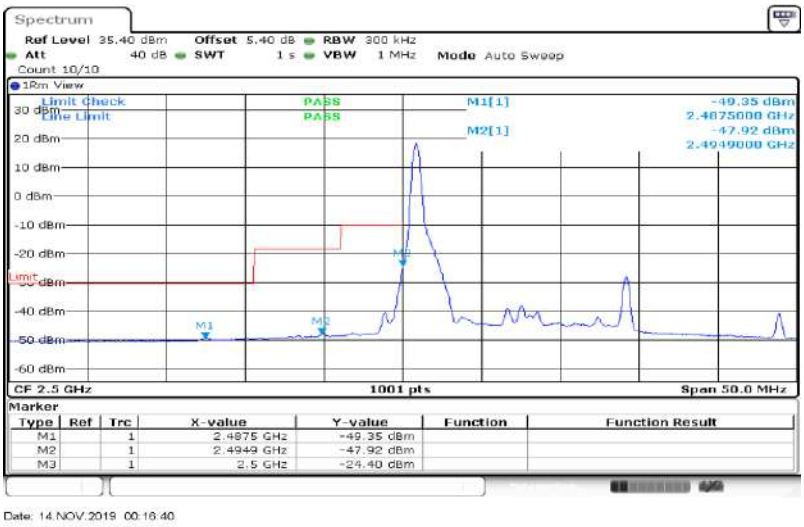
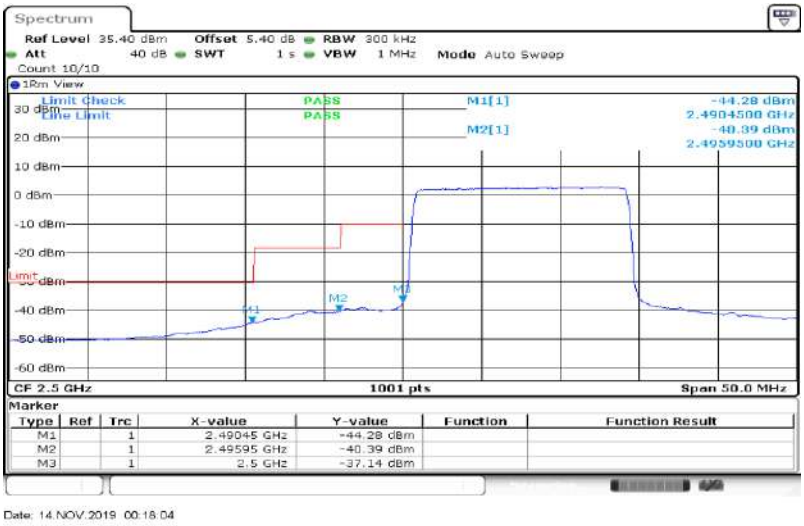


Band7-15MHz-16QAM-20825-75RB#0



Band7-15MHz-16QAM-21375-1RB#74

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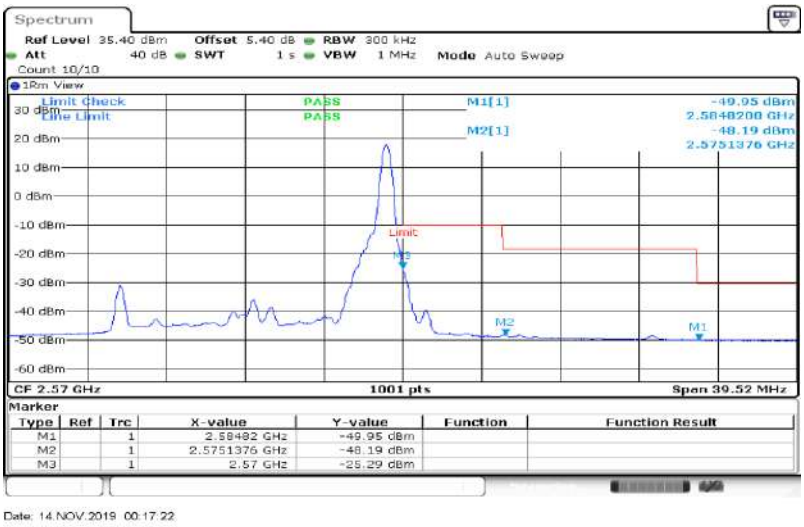
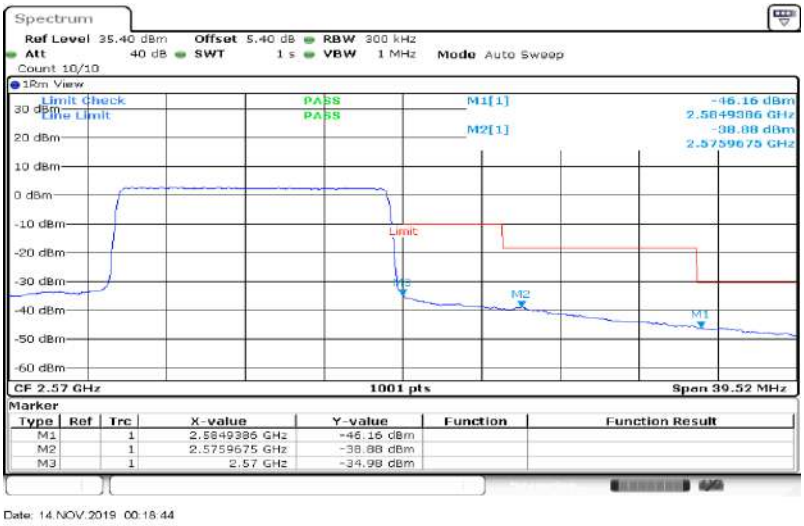


Band7-15MHz-16QAM-21375-75RB#0



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

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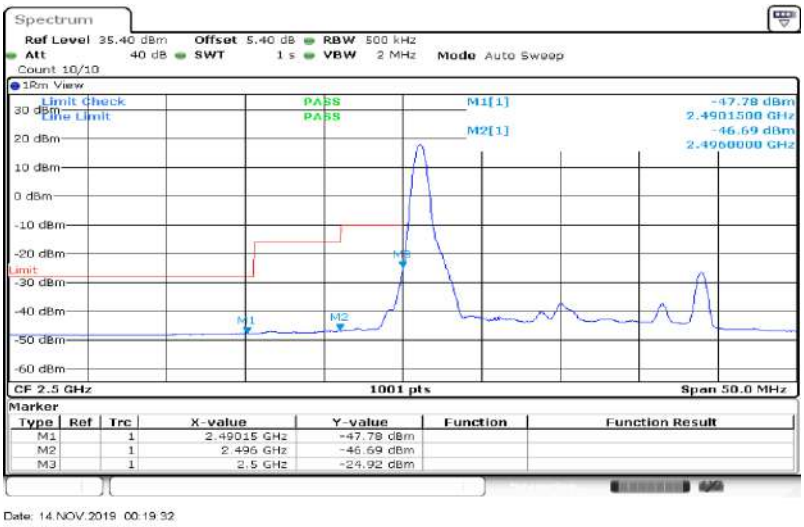
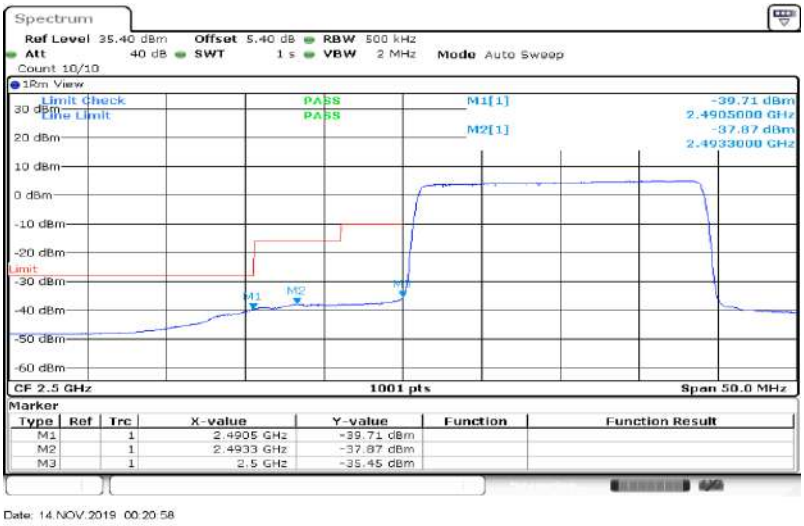


Band7-20MHz-QPSK-20850-100RB#0



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

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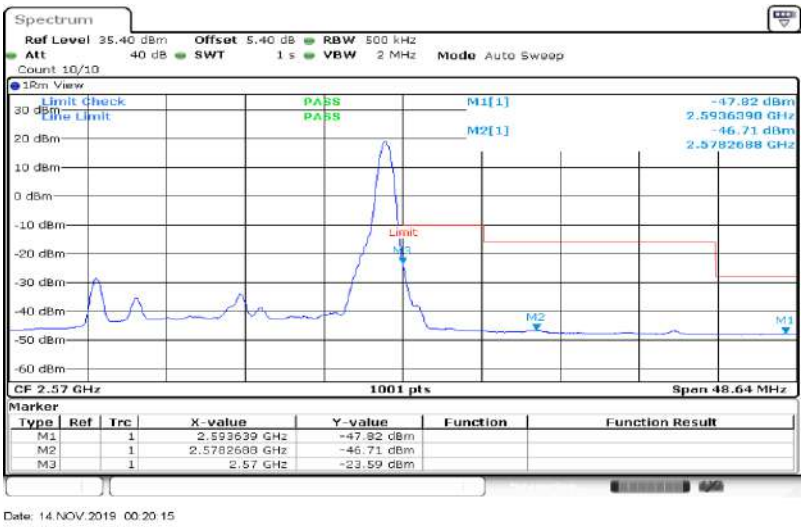

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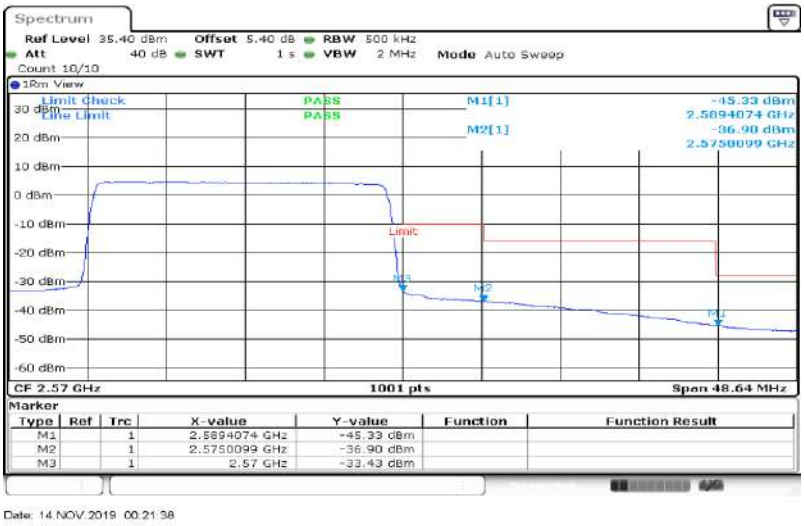

Band7-20MHz-16QAM-20850-1RB#0

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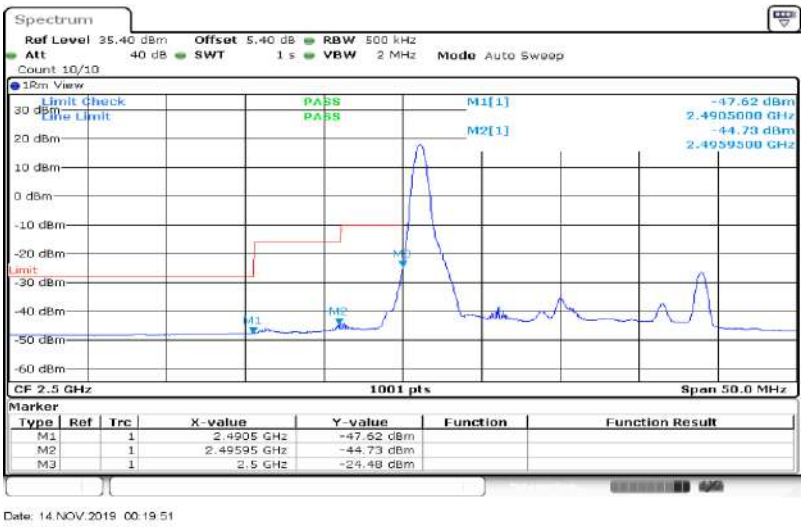
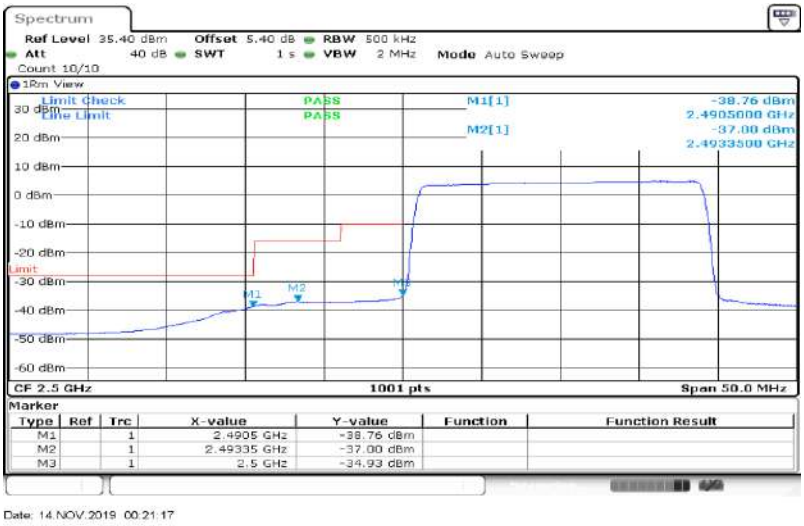


Band7-20MHz-16QAM-20850-100RB#0



Band7-20MHz-16QAM-21350-1RB#99

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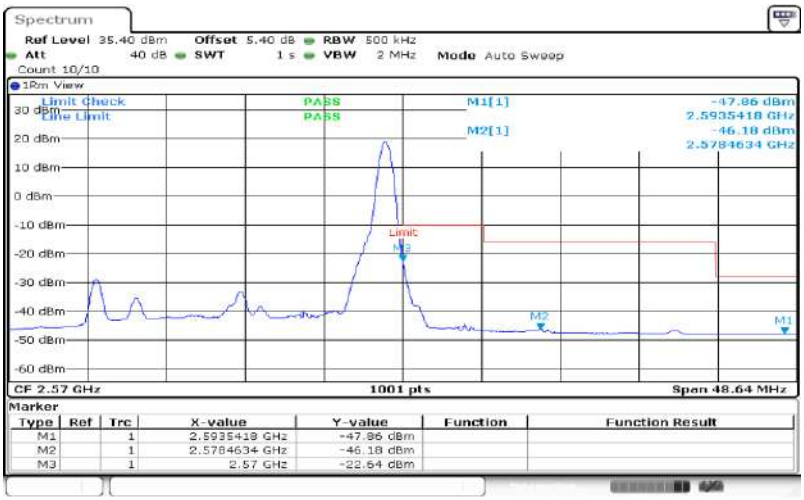

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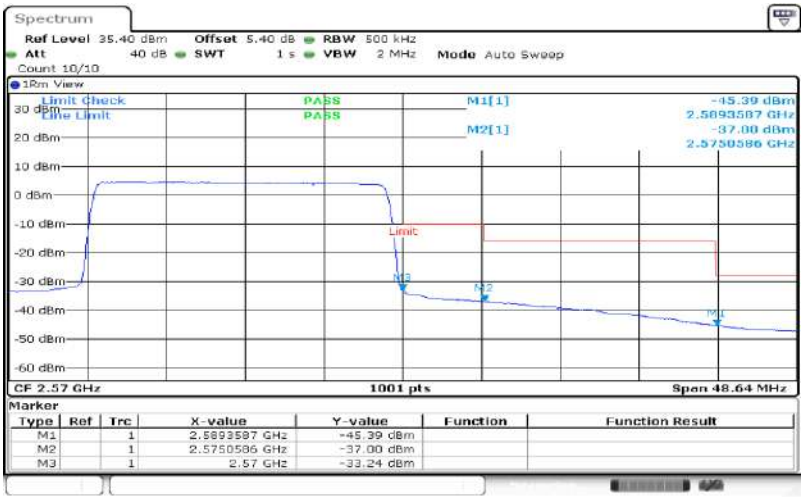

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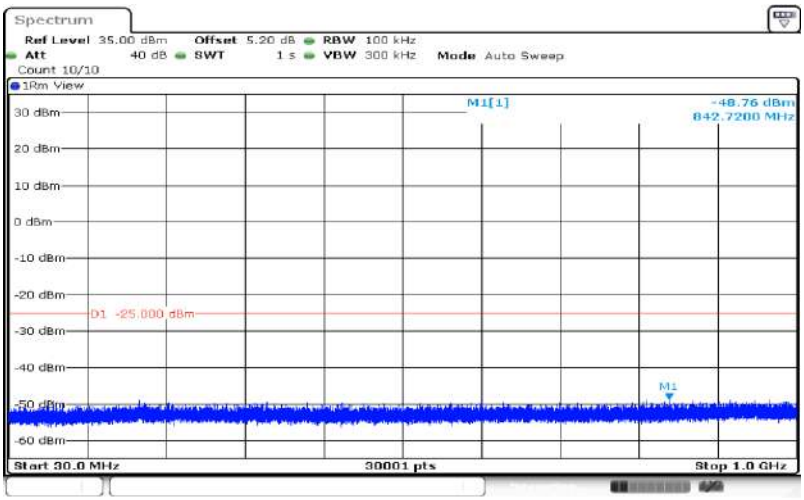
6. Spurious Emission at Antenna Terminal

Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of < RBW/2 so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = k * (Span / RBW)" with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

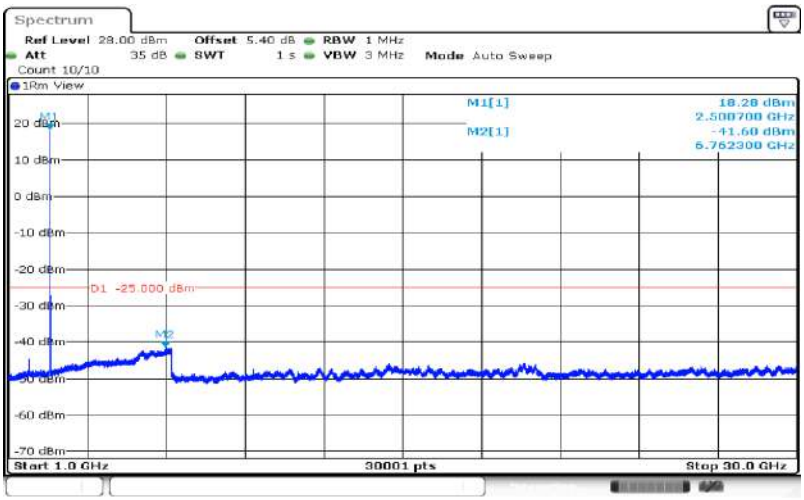
Remark2: only the worst case data displayed in this report.

6.1. Test Plots

Band7-20MHz-QPSK-20850-1RB#0-Range1:30~1000MHz



Band7-20MHz-QPSK-20850-1RB#0-Range2:1000~30000MHz



Band7-20MHz-QPSK-21100-1RB#0-Range1:30~1000MHz

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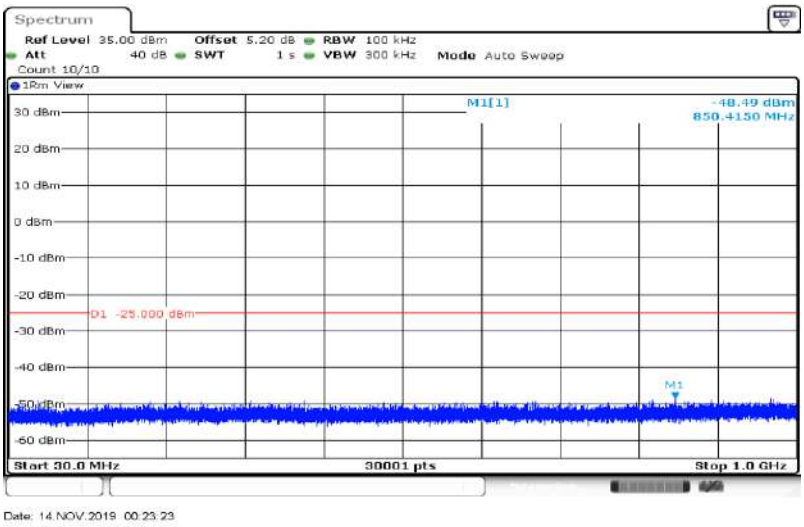
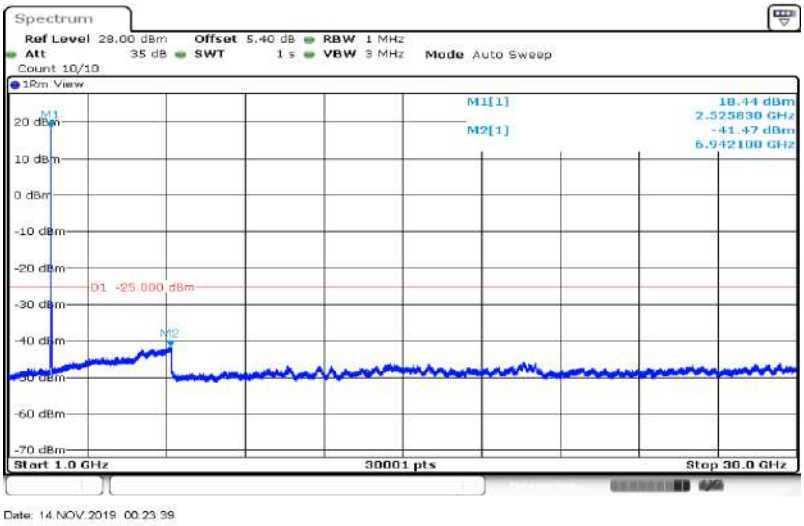


Band7-20MHz-QPSK-21100-1RB#0-Range2:1000~30000MHz



Band7-20MHz-QPSK-21350-1RB#0-Range1:30~1000MHz

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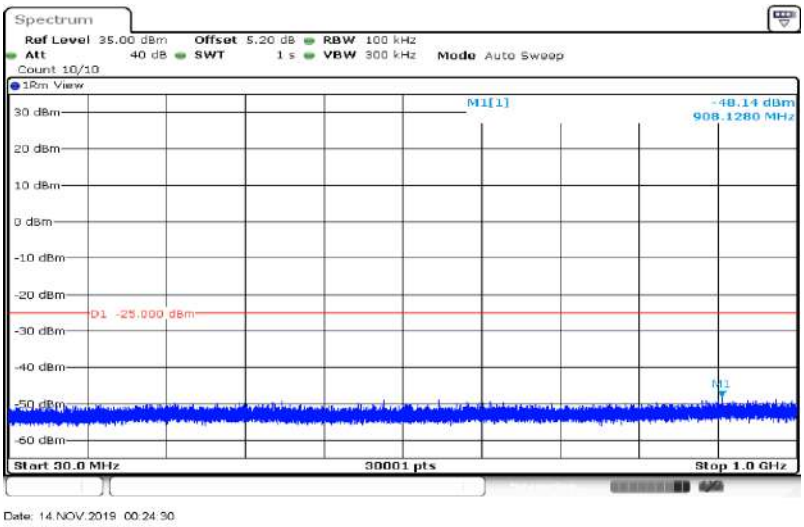

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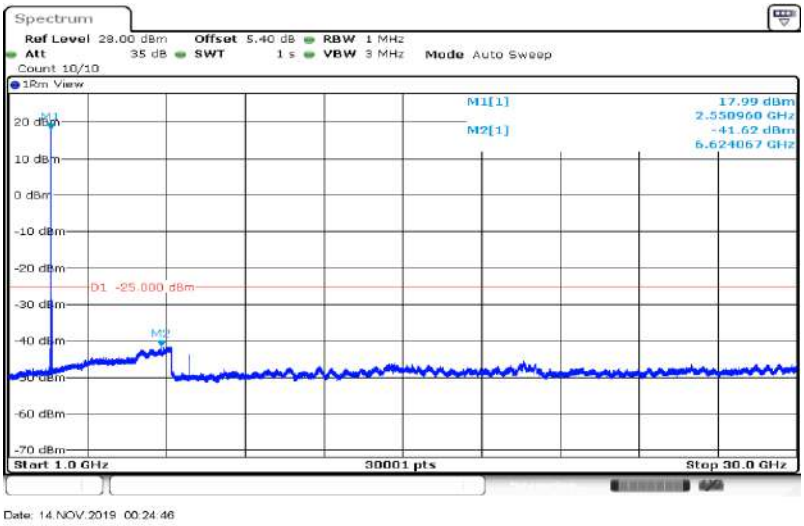

Band7-20MHz-16QAM-20850-1RB#0-Range1:30~1000MHz

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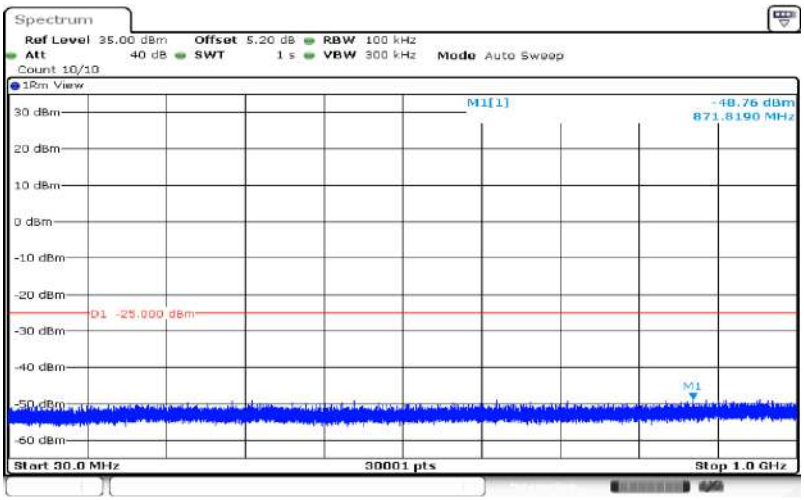
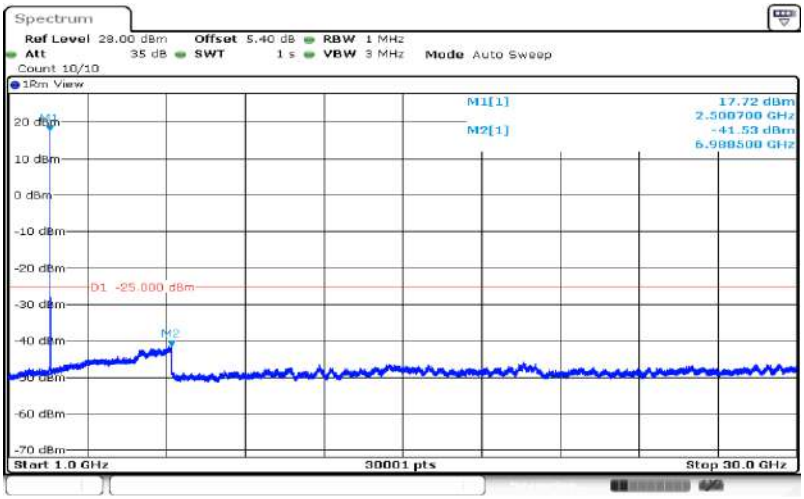


Band7-20MHz-16QAM-20850-1RB#0-Range2:1000~30000MHz



Band7-20MHz-16QAM-21100-1RB#0-Range1:30~1000MHz

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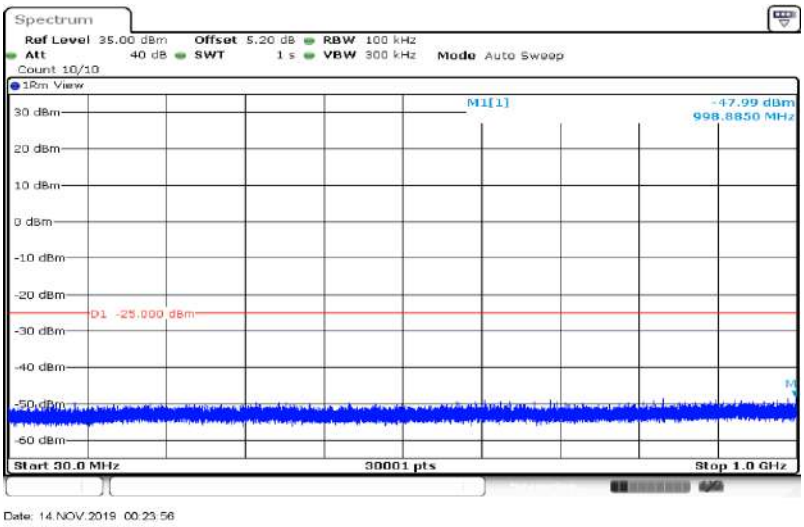
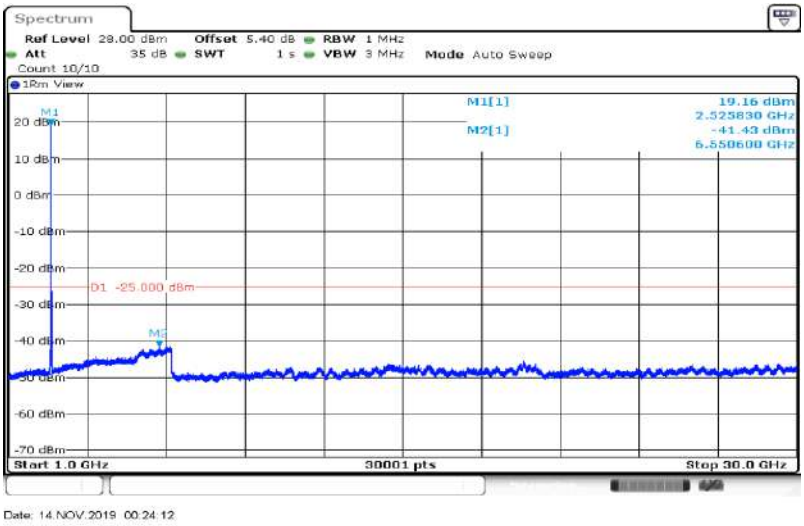


Band7-20MHz-16QAM-21100-1RB#0-Range2:1000~30000MHz



Band7-20MHz-16QAM-21350-1RB#0-Range1:30~1000MHz

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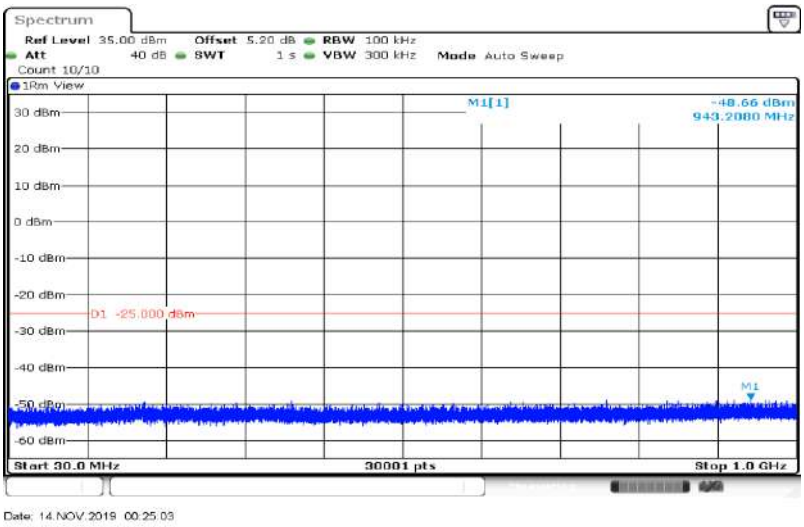
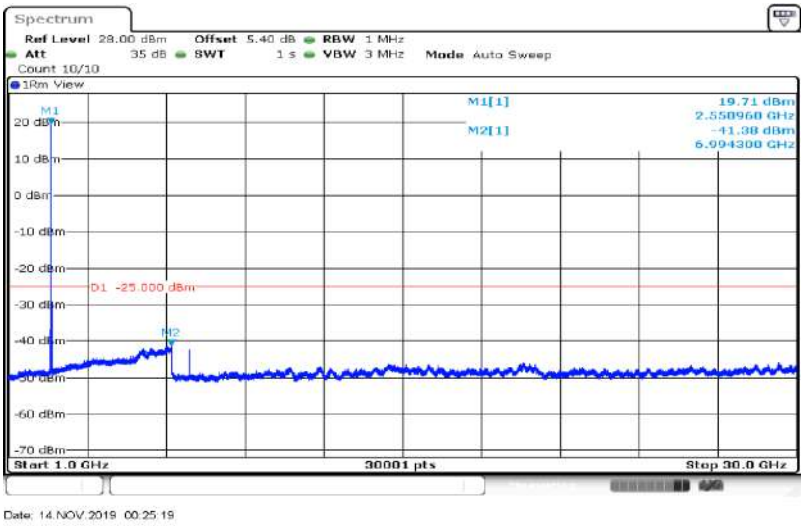


Band7-20MHz-16QAM-21350-1RB#0-Range2:1000~30000MHz



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7. Field Strength of Spurious Radiation

7.1. Test Band = LTE Band 7

7.1.1. Test Mode =LTE/TM1 20MHz

7.1.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height (cm)	Angle (°)	Polarization
109.6410	-66.20	-25.00	41.20	211	173	Vertical
610.0405	-65.43	-25.00	40.43	269	258	Vertical
5002.2801	-52.86	-25.00	27.86	108	4	Vertical
7503.1801	-41.71	-25.00	16.71	179	237	Vertical
10004.6802	-37.78	-25.00	12.78	221	26	Vertical
17996.9999	-35.46	-25.00	10.46	203	360	Vertical
44.5992	-65.99	-25.00	40.99	166	360	Horizontal
230.0725	-69.71	-25.00	44.71	172	131	Horizontal
726.7373	-64.29	-25.00	39.29	252	131	Horizontal
7503.1801	-47.45	-25.00	22.45	196	174	Horizontal
11297.1319	-49.01	-25.00	24.01	137	174	Horizontal
16390.1356	-38.70	-25.00	13.70	284	131	Horizontal

7.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height (cm)	Angle (°)	Polarization
110.7080	-66.67	-25.00	41.67	186	360	Vertical
745.1683	-63.39	-25.00	38.39	245	174	Vertical
5052.0821	-54.82	-25.00	29.82	199	343	Vertical
7578.1831	-44.29	-25.00	19.29	152	216	Vertical
10104.2842	-41.28	-25.00	16.28	239	46	Vertical
17989.1996	-35.79	-25.00	10.79	211	238	Vertical
43.9202	-64.97	-25.00	39.97	186	174	Horizontal
230.9941	-69.03	-25.00	44.03	171	343	Horizontal
858.2759	-62.01	-25.00	37.01	166	68	Horizontal
7578.1831	-49.27	-25.00	24.27	132	195	Horizontal
12416.7767	-47.97	-25.00	22.97	274	238	Horizontal
16392.5357	-39.62	-25.00	14.62	199	360	Horizontal

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7.1.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height (cm)	Angle (°)	Polarization
108.0404	-66.31	-25.00	41.31	296	26	Vertical
692.4461	-64.40	-25.00	39.40	234	220	Vertical
5102.4841	-55.17	-25.00	30.17	222	348	Vertical
7653.1861	-44.73	-25.00	19.73	185	220	Vertical
10204.4882	-43.65	-25.00	18.65	199	48	Vertical
17998.1999	-35.24	-25.00	10.24	173	220	Vertical
43.9202	-65.32	-25.00	40.32	166	207	Horizontal
239.7245	-68.84	-25.00	43.84	121	250	Horizontal
773.9302	-62.36	-25.00	37.36	172	50	Horizontal
7653.1861	-51.56	-25.00	26.56	152	207	Horizontal
12403.5761	-47.72	-25.00	22.72	269	313	Horizontal
16403.9362	-39.43	-25.00	14.43	231	228	Horizontal

Remark:

1 According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.

2 The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data displayed in this report.

3 all modulation and all Bandwidth had been tested, but only the worst case data displayed in this report.

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8. Frequency Stability

8.1. Frequency Vs Voltage

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band7	20MHz	QPSK	20850	100RB#0	VL	NT	9.20	0.003665	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	VN	NT	-11.80	-0.004701	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	VH	NT	2.90	0.001155	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VL	NT	-4.70	-0.001854	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VN	NT	-1.50	-0.000592	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VH	NT	4.40	0.001736	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VL	NT	-8.10	-0.003164	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VN	NT	-7.50	-0.002930	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VH	NT	-6.00	-0.002344	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	VL	NT	0.30	0.000120	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	VN	NT	1.60	0.000637	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	VH	NT	8.70	0.003466	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	VL	NT	-8.10	-0.003195	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	VN	NT	-9.60	-0.003787	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	VH	NT	0.30	0.000118	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	VL	NT	-1.30	-0.000508	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	VN	NT	-2.70	-0.001055	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	VH	NT	-10.70	-0.004180	±2.5	PASS

8.2. Frequency Vs Temperature

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band7	20MHz	QPSK	20850	100RB#0	NV	-30	-8.10	-0.003227	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	-20	-6.00	-0.002390	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	0	-2.30	-0.000916	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	10	-1.60	-0.000637	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	20	3.50	0.001394	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	30	-0.60	-0.000239	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	40	6.70	0.002669	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	50	5.30	0.002112	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-30	-5.50	-0.002170	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-20	-2.40	-0.000947	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	0	-2.80	-0.001105	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	10	-7.70	-0.003037	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	20	-5.20	-0.002051	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	30	8.80	0.003471	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	40	8.20	0.003235	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	50	2.50	0.000986	±2.5	PASS

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Band7	20MHz	QPSK	21350	100RB#0	NV	-30	-4.40	-0.001719	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	-20	-7.70	-0.003008	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	0	-6.00	-0.002344	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	10	-9.80	-0.003828	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	20	-4.10	-0.001602	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	30	-14.20	-0.005547	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	40	0.70	0.000273	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	50	-0.30	-0.000117	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	-30	-4.10	-0.001633	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	-20	-6.30	-0.002510	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	0	-5.60	-0.002231	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	10	-1.70	-0.000677	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	20	-7.60	-0.003028	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	30	6.60	0.002629	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	40	4.00	0.001594	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	50	-3.90	-0.001554	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	-30	8.00	0.003156	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	-20	-5.20	-0.002051	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	0	0.30	0.000118	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	10	-5.30	-0.002091	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	20	-4.90	-0.001933	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	30	-8.50	-0.003353	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	40	-5.20	-0.002051	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	50	-7.20	-0.002840	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	-30	-6.10	-0.002383	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	-20	-4.50	-0.001758	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	0	-3.70	-0.001445	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	10	-4.00	-0.001563	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	20	-3.70	-0.001445	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	30	-6.20	-0.002422	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	40	-4.60	-0.001797	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	50	-0.60	-0.000234	±2.5	PASS

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