



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	22.72	26.79	33.00	PASS
Band7	5MHz	QPSK	20775	1RB#12	23.11	27.18	33.00	PASS
Band7	5MHz	QPSK	20775	1RB#24	22.62	26.69	33.00	PASS
Band7	5MHz	QPSK	20775	12RB#0	22.00	26.07	33.00	PASS
Band7	5MHz	QPSK	20775	12RB#6	22.01	26.08	33.00	PASS
Band7	5MHz	QPSK	20775	12RB#13	21.94	26.01	33.00	PASS
Band7	5MHz	QPSK	20775	25RB#0	21.94	26.01	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#0	22.81	26.88	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#12	23.18	27.25	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#24	22.68	26.75	33.00	PASS
Band7	5MHz	QPSK	21100	12RB#0	22.00	26.07	33.00	PASS
Band7	5MHz	QPSK	21100	12RB#6	22.07	26.14	33.00	PASS
Band7	5MHz	QPSK	21100	12RB#13	22.02	26.09	33.00	PASS
Band7	5MHz	QPSK	21100	25RB#0	22.00	26.07	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#0	22.81	26.88	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#12	22.81	26.88	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#24	22.85	26.92	33.00	PASS
Band7	5MHz	QPSK	21425	12RB#0	21.96	26.03	33.00	PASS
Band7	5MHz	QPSK	21425	12RB#6	21.94	26.01	33.00	PASS
Band7	5MHz	QPSK	21425	12RB#13	21.95	26.02	33.00	PASS
Band7	5MHz	QPSK	21425	25RB#0	21.94	26.01	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#0	21.59	25.66	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#12	21.94	26.01	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#24	21.52	25.59	33.00	PASS
Band7	5MHz	16QAM	20775	12RB#0	21.11	25.18	33.00	PASS
Band7	5MHz	16QAM	20775	12RB#6	21.06	25.13	33.00	PASS
Band7	5MHz	16QAM	20775	12RB#13	20.91	24.98	33.00	PASS
Band7	5MHz	16QAM	20775	25RB#0	20.92	24.99	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#0	21.60	25.67	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#12	21.94	26.01	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#24	21.61	25.68	33.00	PASS
Band7	5MHz	16QAM	21100	12RB#0	21.04	25.11	33.00	PASS



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Band7	5MHz	16QAM	21100	12RB#6	20.97	25.04	33.00	PASS
Band7	5MHz	16QAM	21100	12RB#13	20.86	24.93	33.00	PASS
Band7	5MHz	16QAM	21100	25RB#0	20.97	25.04	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#0	21.47	25.54	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#12	21.86	25.93	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#24	21.48	25.55	33.00	PASS
Band7	5MHz	16QAM	21425	12RB#0	20.82	24.89	33.00	PASS
Band7	5MHz	16QAM	21425	12RB#6	21.07	25.14	33.00	PASS
Band7	5MHz	16QAM	21425	12RB#13	20.98	25.05	33.00	PASS
Band7	5MHz	16QAM	21425	25RB#0	20.89	24.96	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#0	22.98	27.05	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#24	23.09	27.16	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#49	22.81	26.88	33.00	PASS
Band7	10MHz	QPSK	20800	25RB#0	22.02	26.09	33.00	PASS
Band7	10MHz	QPSK	20800	25RB#12	22.07	26.14	33.00	PASS
Band7	10MHz	QPSK	20800	25RB#25	22.02	26.09	33.00	PASS
Band7	10MHz	QPSK	20800	50RB#0	21.97	26.04	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#0	22.91	26.98	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#24	23.07	27.14	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#49	23.10	27.17	33.00	PASS
Band7	10MHz	QPSK	21100	25RB#0	22.04	26.11	33.00	PASS
Band7	10MHz	QPSK	21100	25RB#12	22.10	26.17	33.00	PASS
Band7	10MHz	QPSK	21100	25RB#25	22.01	26.08	33.00	PASS
Band7	10MHz	QPSK	21100	50RB#0	22.08	26.15	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#0	23.02	27.09	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#24	23.09	27.16	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#49	22.92	26.99	33.00	PASS
Band7	10MHz	QPSK	21400	25RB#0	22.13	26.20	33.00	PASS
Band7	10MHz	QPSK	21400	25RB#12	22.05	26.12	33.00	PASS
Band7	10MHz	QPSK	21400	25RB#25	22.04	26.11	33.00	PASS
Band7	10MHz	QPSK	21400	50RB#0	22.05	26.12	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#0	21.76	25.83	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#24	21.73	25.80	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#49	21.71	25.78	33.00	PASS
Band7	10MHz	16QAM	20800	25RB#0	21.09	25.16	33.00	PASS
Band7	10MHz	16QAM	20800	25RB#12	21.25	25.32	33.00	PASS
Band7	10MHz	16QAM	20800	25RB#25	21.08	25.15	33.00	PASS
Band7	10MHz	16QAM	20800	50RB#0	21.05	25.12	33.00	PASS



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Band7	10MHz	16QAM	21100	1RB#0	21.72	25.79	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#24	21.82	25.89	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#49	21.91	25.98	33.00	PASS
Band7	10MHz	16QAM	21100	25RB#0	21.03	25.10	33.00	PASS
Band7	10MHz	16QAM	21100	25RB#12	21.21	25.28	33.00	PASS
Band7	10MHz	16QAM	21100	25RB#25	21.19	25.26	33.00	PASS
Band7	10MHz	16QAM	21100	50RB#0	21.07	25.14	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#0	21.74	25.81	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#24	21.83	25.90	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#49	21.78	25.85	33.00	PASS
Band7	10MHz	16QAM	21400	25RB#0	21.16	25.23	33.00	PASS
Band7	10MHz	16QAM	21400	25RB#12	21.04	25.11	33.00	PASS
Band7	10MHz	16QAM	21400	25RB#25	21.07	25.14	33.00	PASS
Band7	10MHz	16QAM	21400	50RB#0	21.14	25.21	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#0	22.97	27.04	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#38	22.82	26.89	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#74	22.93	27.00	33.00	PASS
Band7	15MHz	QPSK	20825	36RB#0	22.10	26.17	33.00	PASS
Band7	15MHz	QPSK	20825	36RB#18	22.05	26.12	33.00	PASS
Band7	15MHz	QPSK	20825	36RB#39	22.05	26.12	33.00	PASS
Band7	15MHz	QPSK	20825	75RB#0	22.06	26.13	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#0	22.87	26.94	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#38	23.00	27.07	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#74	22.89	26.96	33.00	PASS
Band7	15MHz	QPSK	21100	36RB#0	22.05	26.12	33.00	PASS
Band7	15MHz	QPSK	21100	36RB#18	22.14	26.21	33.00	PASS
Band7	15MHz	QPSK	21100	36RB#39	22.12	26.19	33.00	PASS
Band7	15MHz	QPSK	21100	75RB#0	22.07	26.14	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#0	22.68	26.75	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#38	23.01	27.08	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#74	23.00	27.07	33.00	PASS
Band7	15MHz	QPSK	21375	36RB#0	22.14	26.21	33.00	PASS
Band7	15MHz	QPSK	21375	36RB#18	22.14	26.21	33.00	PASS
Band7	15MHz	QPSK	21375	36RB#39	22.09	26.16	33.00	PASS
Band7	15MHz	QPSK	21375	75RB#0	22.09	26.16	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#0	21.84	25.91	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#38	21.68	25.75	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#74	21.82	25.89	33.00	PASS



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Band7	15MHz	16QAM	20825	36RB#0	21.13	25.20	33.00	PASS
Band7	15MHz	16QAM	20825	36RB#18	21.04	25.11	33.00	PASS
Band7	15MHz	16QAM	20825	36RB#39	21.09	25.16	33.00	PASS
Band7	15MHz	16QAM	20825	75RB#0	21.02	25.09	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#0	21.78	25.85	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#38	21.58	25.65	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#74	21.84	25.91	33.00	PASS
Band7	15MHz	16QAM	21100	36RB#0	21.17	25.24	33.00	PASS
Band7	15MHz	16QAM	21100	36RB#18	21.04	25.11	33.00	PASS
Band7	15MHz	16QAM	21100	36RB#39	21.06	25.13	33.00	PASS
Band7	15MHz	16QAM	21100	75RB#0	21.07	25.14	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#0	21.67	25.74	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#38	21.73	25.80	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#74	21.76	25.83	33.00	PASS
Band7	15MHz	16QAM	21375	36RB#0	21.04	25.11	33.00	PASS
Band7	15MHz	16QAM	21375	36RB#18	21.03	25.10	33.00	PASS
Band7	15MHz	16QAM	21375	36RB#39	21.07	25.14	33.00	PASS
Band7	15MHz	16QAM	21375	75RB#0	21.23	25.30	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#0	22.83	26.90	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#49	23.11	27.18	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#99	22.93	27.00	33.00	PASS
Band7	20MHz	QPSK	20850	50RB#0	22.09	26.16	33.00	PASS
Band7	20MHz	QPSK	20850	50RB#25	22.06	26.13	33.00	PASS
Band7	20MHz	QPSK	20850	50RB#50	22.12	26.19	33.00	PASS
Band7	20MHz	QPSK	20850	100RB#0	22.03	26.10	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#0	22.94	27.01	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#49	23.11	27.18	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#99	23.08	27.15	33.00	PASS
Band7	20MHz	QPSK	21100	50RB#0	22.11	26.18	33.00	PASS
Band7	20MHz	QPSK	21100	50RB#25	22.11	26.18	33.00	PASS
Band7	20MHz	QPSK	21100	50RB#50	22.10	26.17	33.00	PASS
Band7	20MHz	QPSK	21100	100RB#0	22.10	26.17	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#0	22.95	27.02	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#49	23.02	27.09	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#99	22.88	26.95	33.00	PASS
Band7	20MHz	QPSK	21350	50RB#0	22.12	26.19	33.00	PASS
Band7	20MHz	QPSK	21350	50RB#25	22.09	26.16	33.00	PASS
Band7	20MHz	QPSK	21350	50RB#50	22.06	26.13	33.00	PASS



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Band7	20MHz	QPSK	21350	100RB#0	22.05	26.12	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#0	21.82	25.89	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#49	21.79	25.86	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#99	21.78	25.85	33.00	PASS
Band7	20MHz	16QAM	20850	50RB#0	21.20	25.27	33.00	PASS
Band7	20MHz	16QAM	20850	50RB#25	21.10	25.17	33.00	PASS
Band7	20MHz	16QAM	20850	50RB#50	21.18	25.25	33.00	PASS
Band7	20MHz	16QAM	20850	100RB#0	21.11	25.18	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#0	21.68	25.75	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#49	21.85	25.92	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#99	21.75	25.82	33.00	PASS
Band7	20MHz	16QAM	21100	50RB#0	21.18	25.25	33.00	PASS
Band7	20MHz	16QAM	21100	50RB#25	21.24	25.31	33.00	PASS
Band7	20MHz	16QAM	21100	50RB#50	21.03	25.10	33.00	PASS
Band7	20MHz	16QAM	21100	100RB#0	21.01	25.08	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#0	21.73	25.80	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#49	21.94	26.01	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#99	21.75	25.82	33.00	PASS
Band7	20MHz	16QAM	21350	50RB#0	21.07	25.14	33.00	PASS
Band7	20MHz	16QAM	21350	50RB#25	21.07	25.14	33.00	PASS
Band7	20MHz	16QAM	21350	50RB#50	21.18	25.25	33.00	PASS
Band7	20MHz	16QAM	21350	100RB#0	21.15	25.22	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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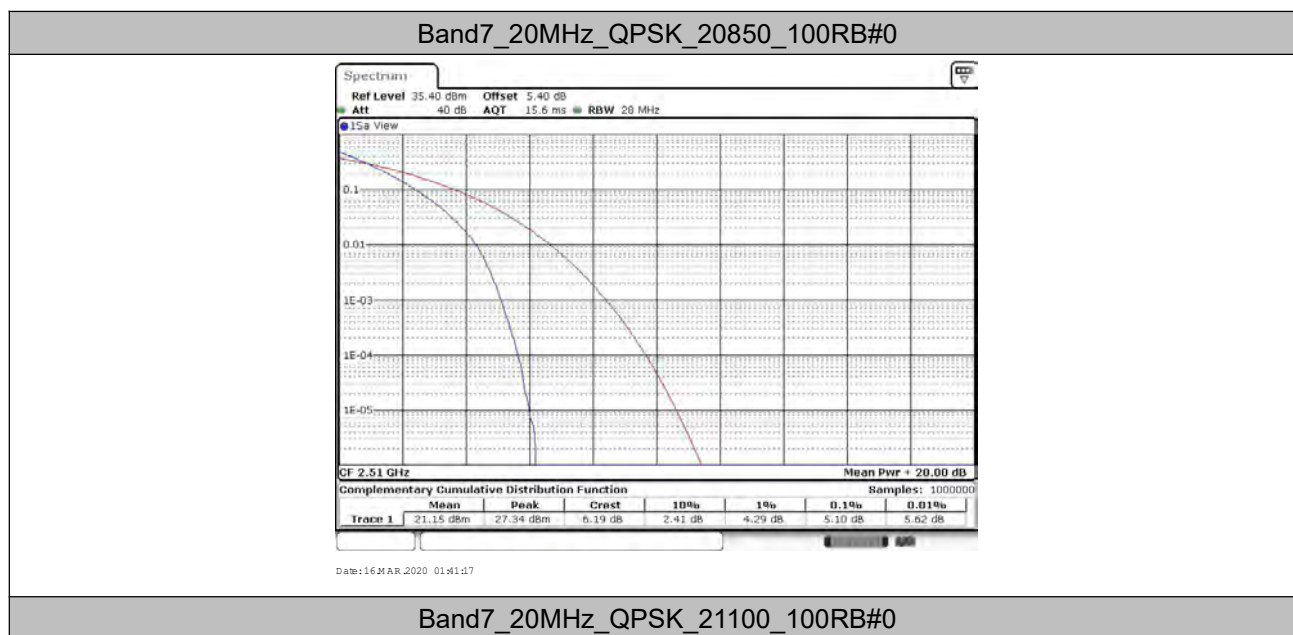


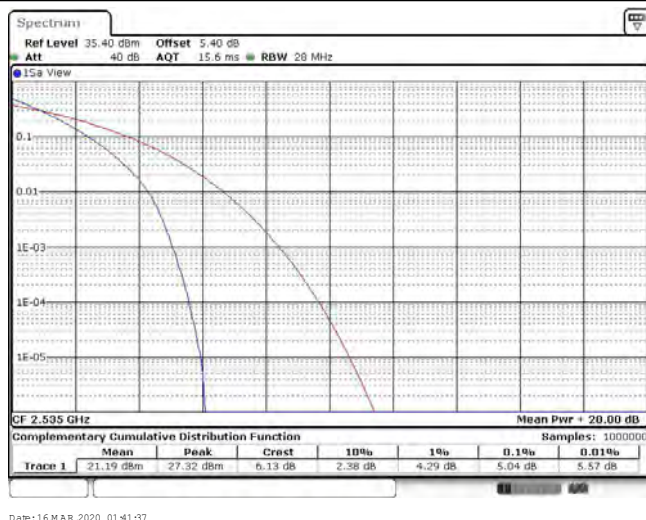
2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

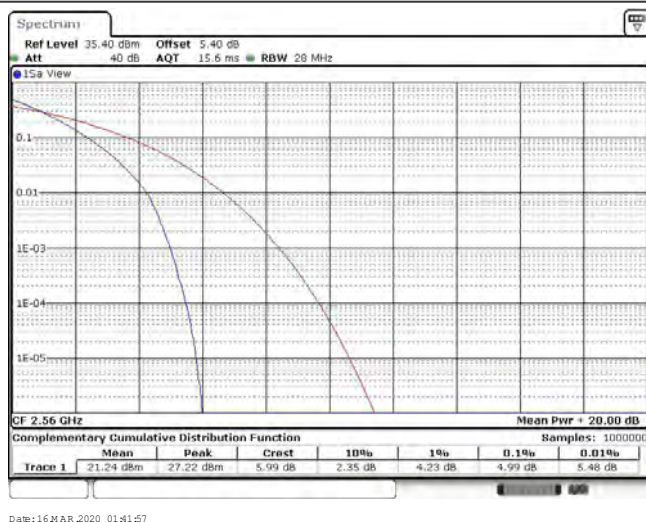
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band7	20MHz	QPSK	20850	100RB#0	5.10	13.00	PASS
Band7	20MHz	QPSK	21100	100RB#0	5.04	13.00	PASS
Band7	20MHz	QPSK	21350	100RB#0	4.99	13.00	PASS
Band7	20MHz	16QAM	20850	100RB#0	6.06	13.00	PASS
Band7	20MHz	16QAM	21100	100RB#0	5.94	13.00	PASS
Band7	20MHz	16QAM	21350	100RB#0	5.91	13.00	PASS

2.2. Test Plots





Band7_20MHz_QPSK_21350_100RB#0

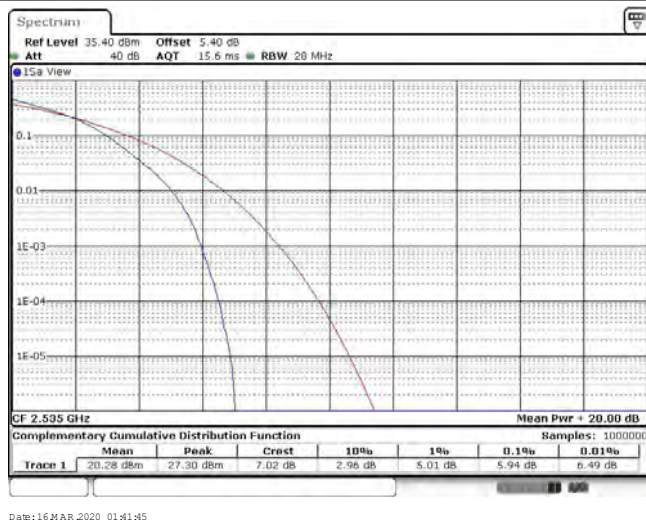


Band7_20MHz_16QAM_20850_100RB#0



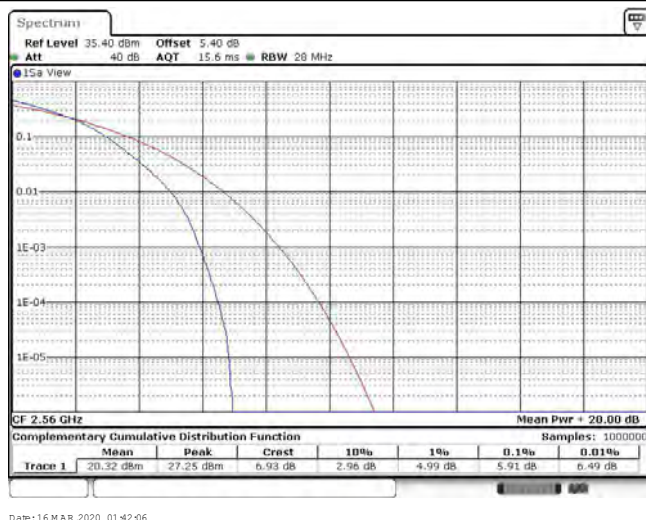


Band7_20MHz_16QAM_21100_100RB#0



Band7_20MHz_16QAM_21350_100RB#0



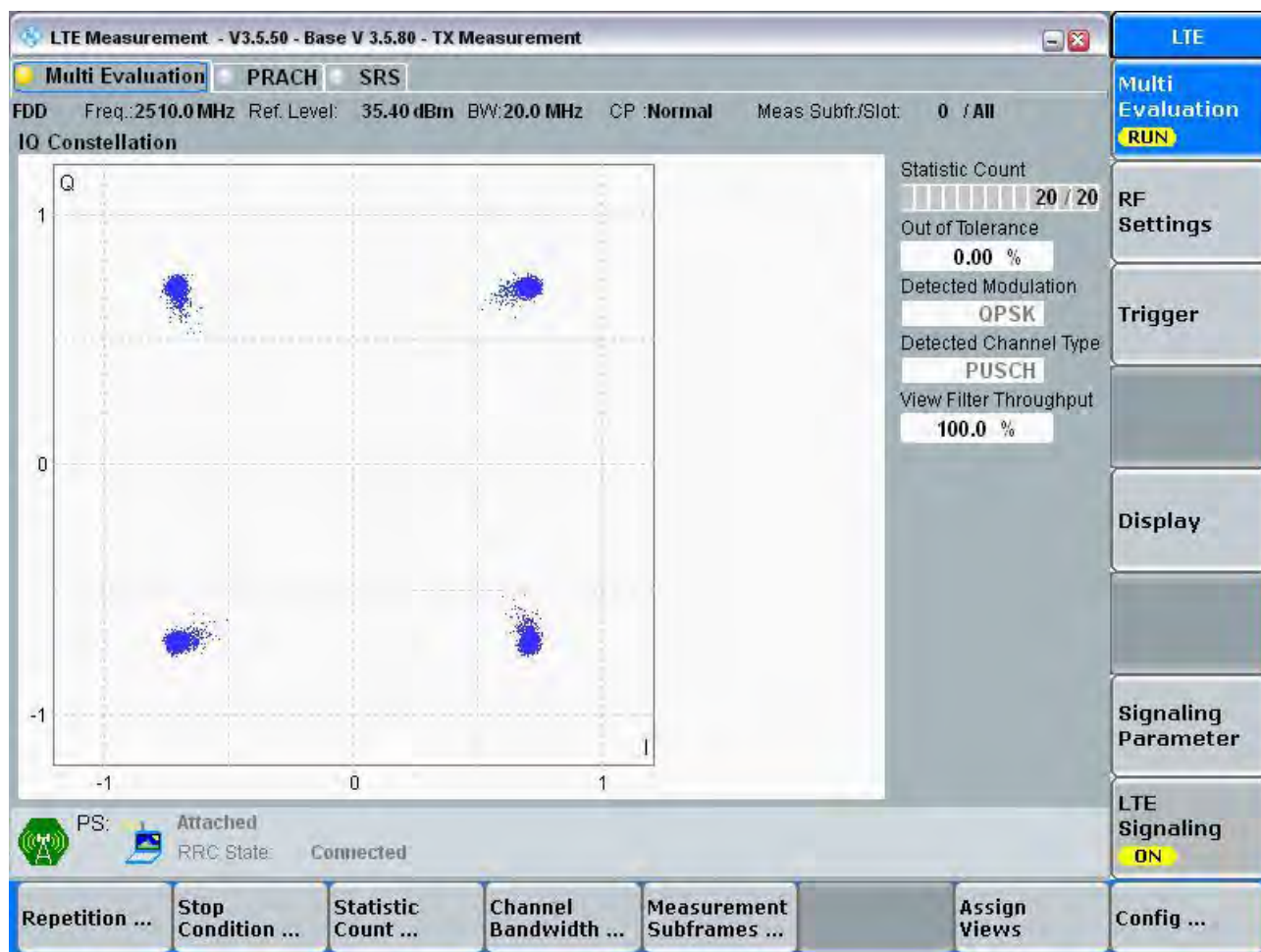


3. Modulation Characteristics

3.1. Test Band = LTE Band 7

3.2. Test Mode = LTE /TM1 20MHz

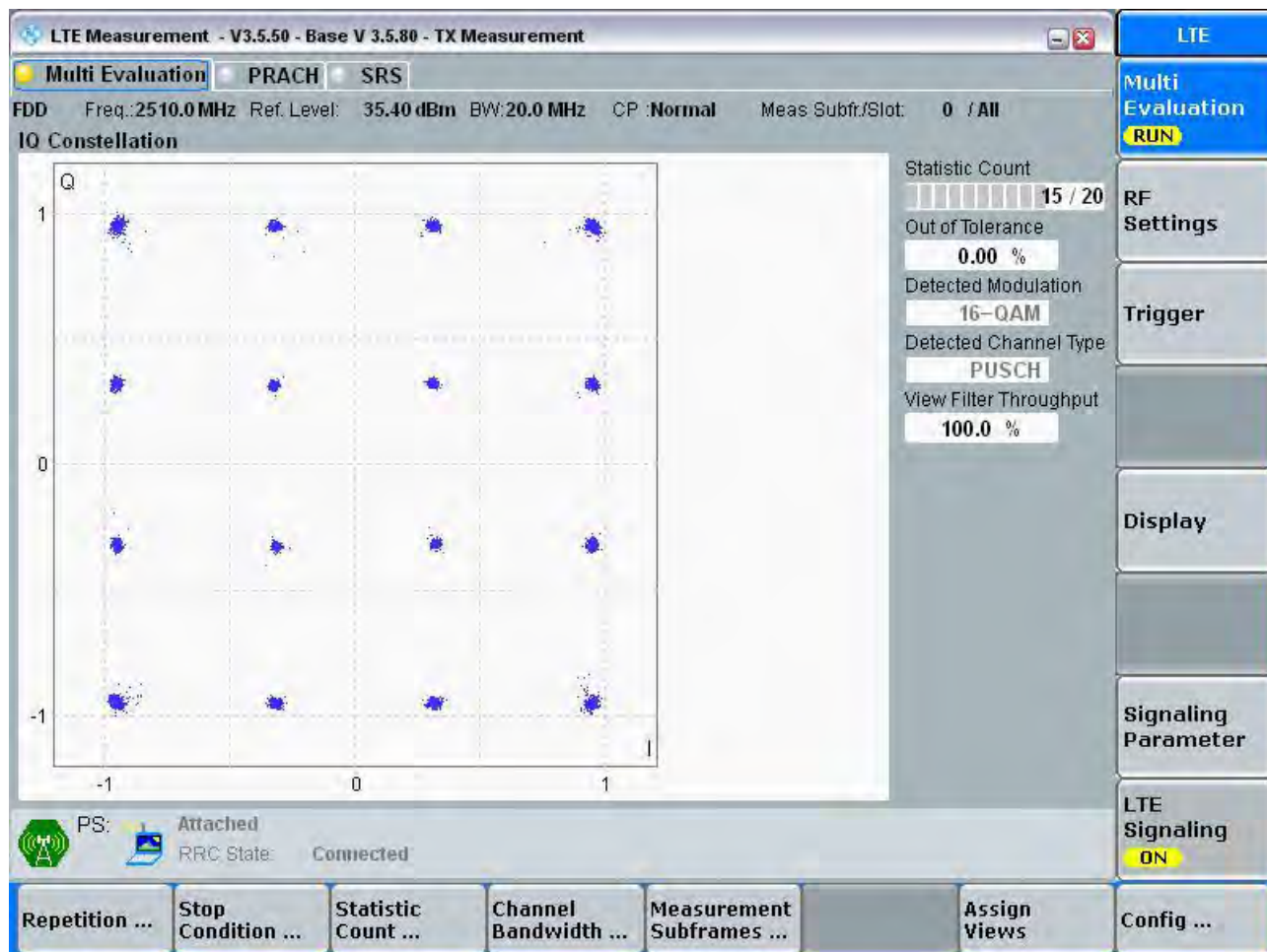
3.2.1. Test Channel = MCH





3.3. Test Mode = LTE /TM2 20MHz

3.3.1. Test Channel = MCH





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	4.466	4.920	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.476	4.930	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.476	4.900	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.486	4.940	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.476	4.950	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.476	4.930	PASS
Band7	10MHz	QPSK	20800	50RB#0	8.931	9.700	PASS
Band7	10MHz	QPSK	21100	50RB#0	8.911	9.700	PASS
Band7	10MHz	QPSK	21400	50RB#0	8.911	9.640	PASS
Band7	10MHz	16QAM	20800	50RB#0	8.931	9.740	PASS
Band7	10MHz	16QAM	21100	50RB#0	8.931	9.720	PASS
Band7	10MHz	16QAM	21400	50RB#0	8.911	9.740	PASS
Band7	15MHz	QPSK	20825	75RB#0	13.427	14.820	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.427	14.670	PASS
Band7	15MHz	QPSK	21375	75RB#0	13.397	14.700	PASS
Band7	15MHz	16QAM	20825	75RB#0	13.427	14.760	PASS
Band7	15MHz	16QAM	21100	75RB#0	13.427	14.730	PASS
Band7	15MHz	16QAM	21375	75RB#0	13.397	14.670	PASS
Band7	20MHz	QPSK	20850	100RB#0	17.862	19.520	PASS
Band7	20MHz	QPSK	21100	100RB#0	17.822	19.360	PASS
Band7	20MHz	QPSK	21350	100RB#0	17.822	19.440	PASS
Band7	20MHz	16QAM	20850	100RB#0	17.902	19.400	PASS
Band7	20MHz	16QAM	21100	100RB#0	17.862	19.440	PASS
Band7	20MHz	16QAM	21350	100RB#0	17.822	19.360	PASS



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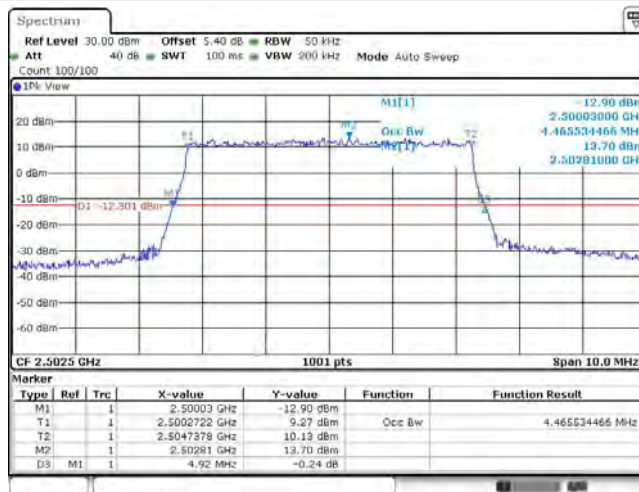
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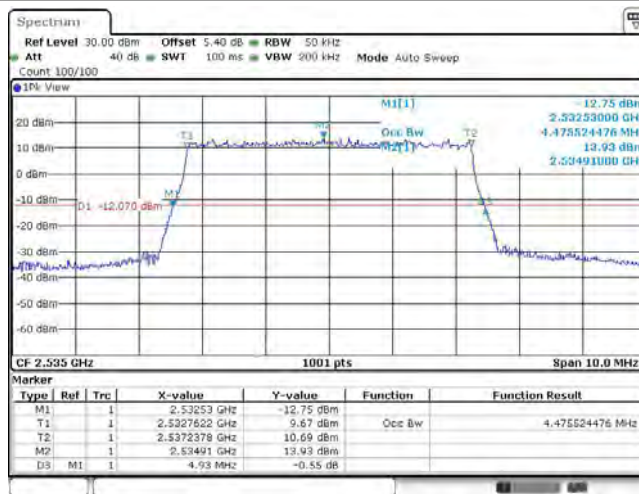


4.2. Test Plots

Band7_5MHz_QPSK_20775_25RB#0



Band7_5MHz_QPSK_21100_25RB#0

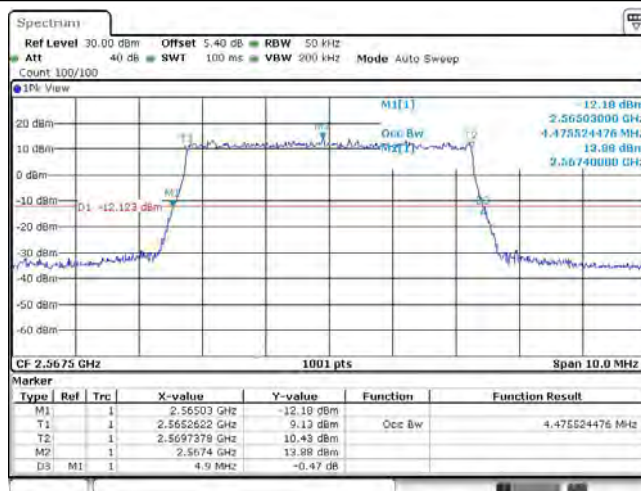


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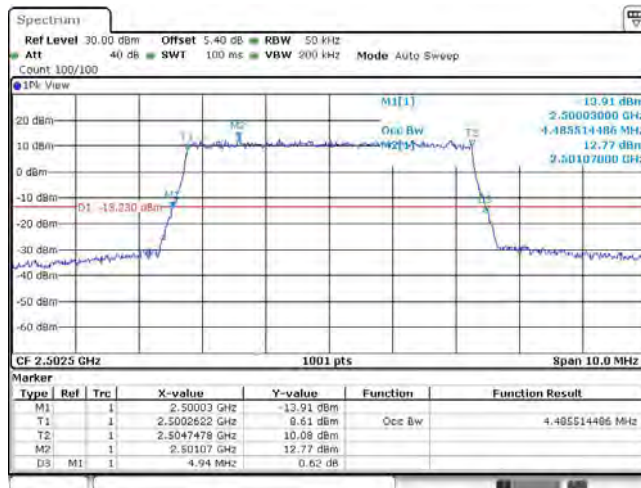
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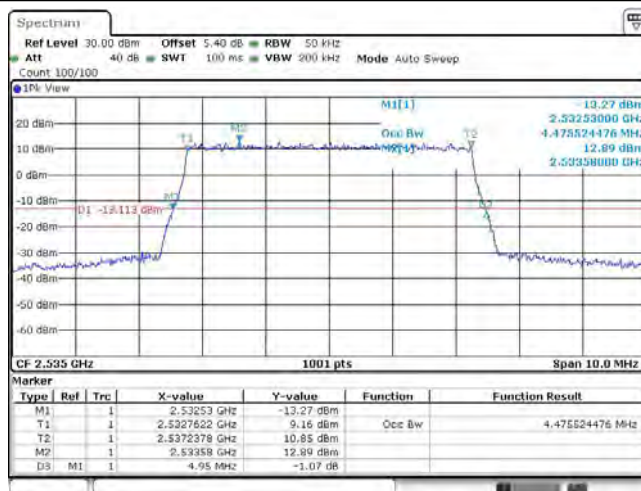
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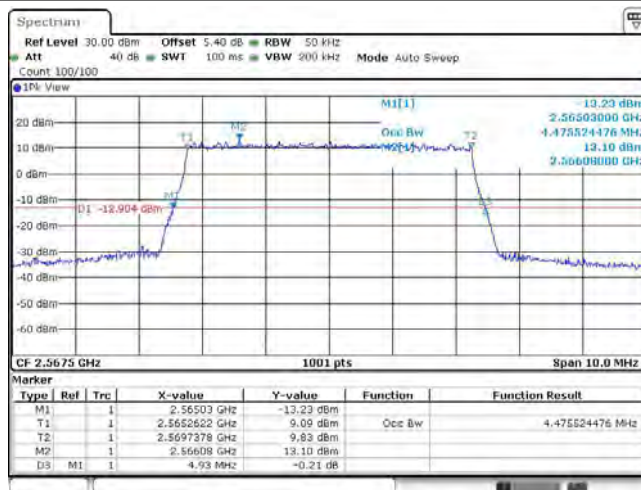
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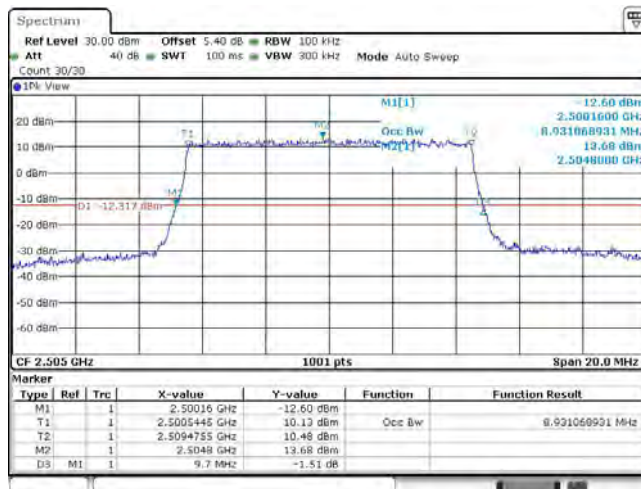
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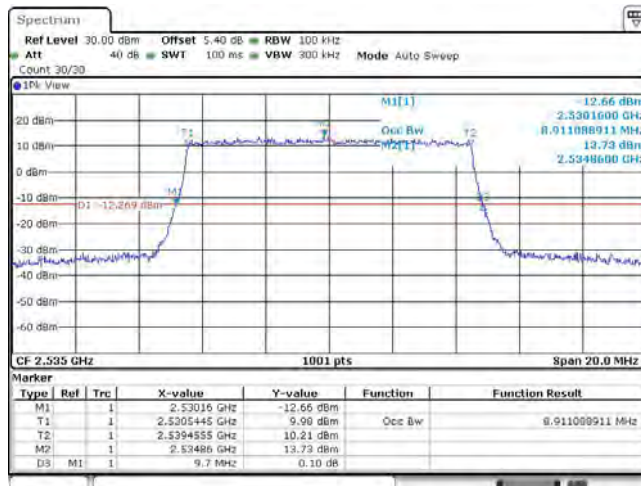
Band7_10MHz_QPSK_20800_50RB#0





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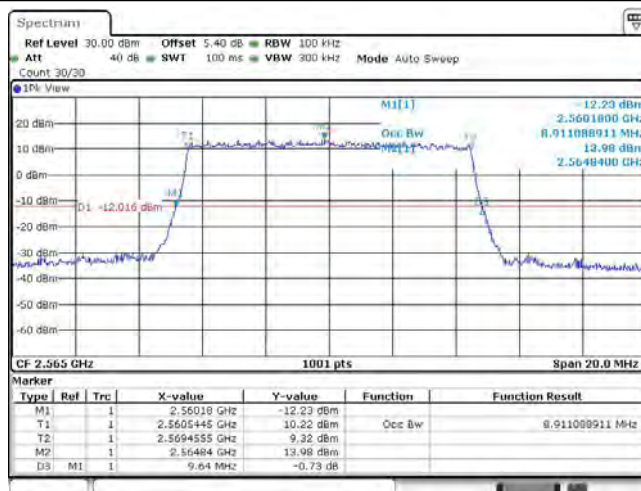
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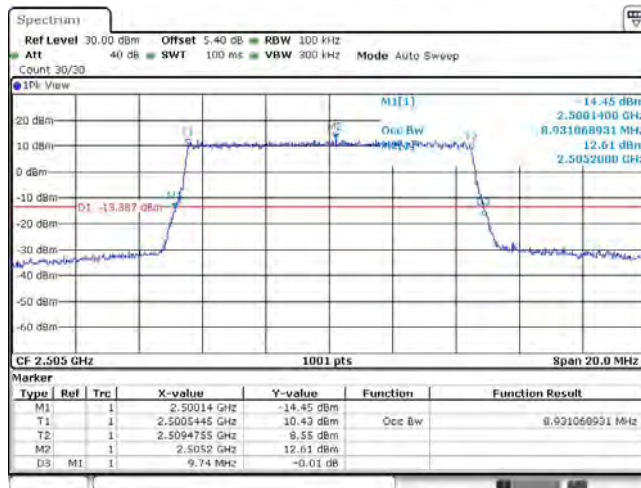
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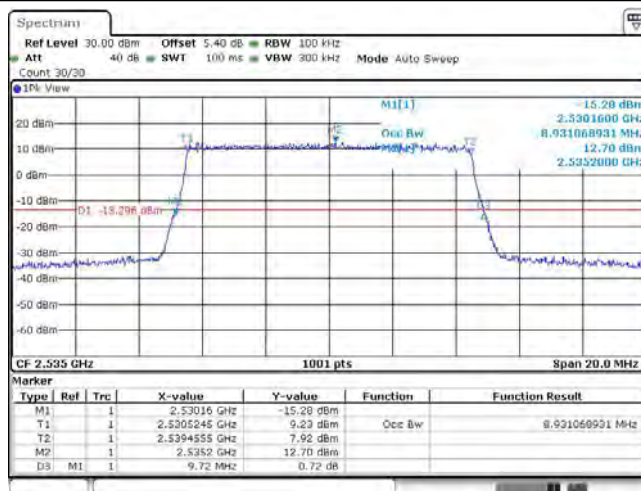
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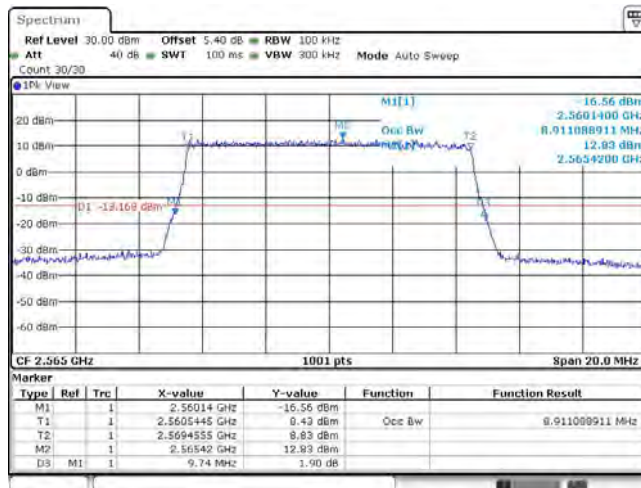
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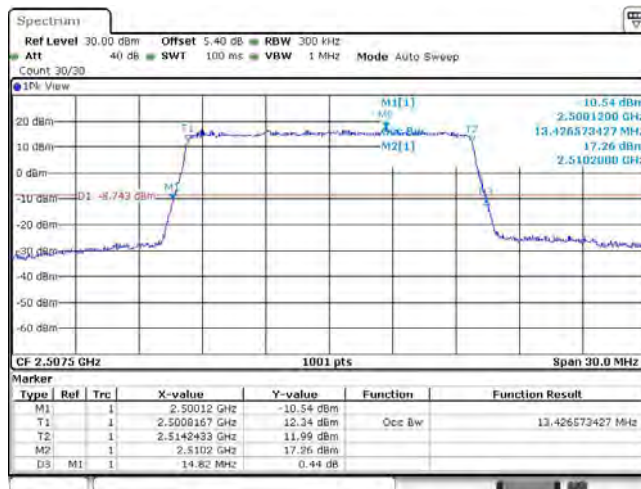
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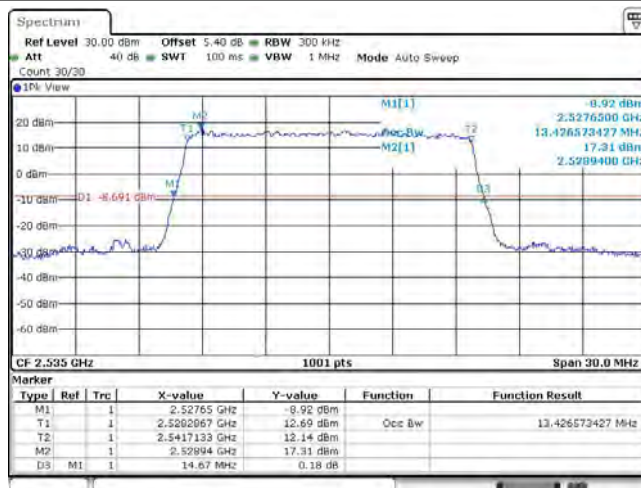
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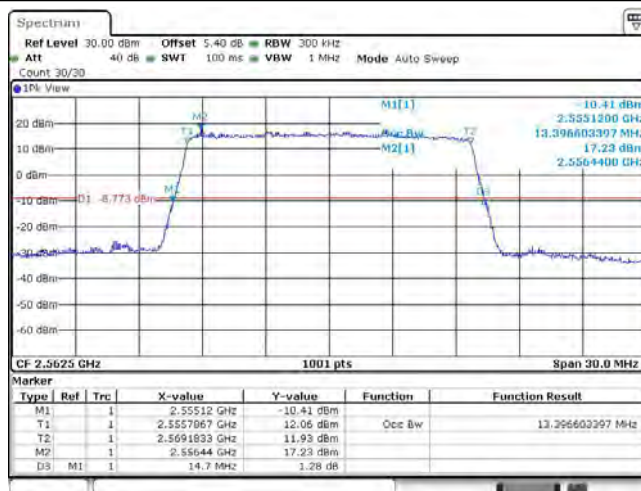
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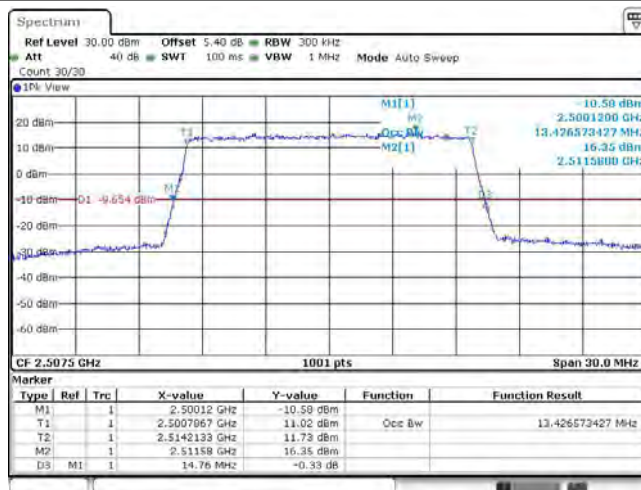
Band7_15MHz_QPSK_21375_75RB#0





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Band7_15MHz_16QAM_20825_75RB#0



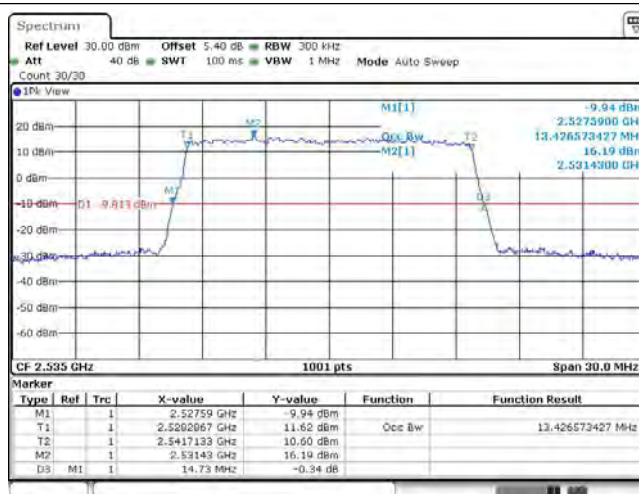
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Band7_15MHz_16QAM_21100_75RB#0



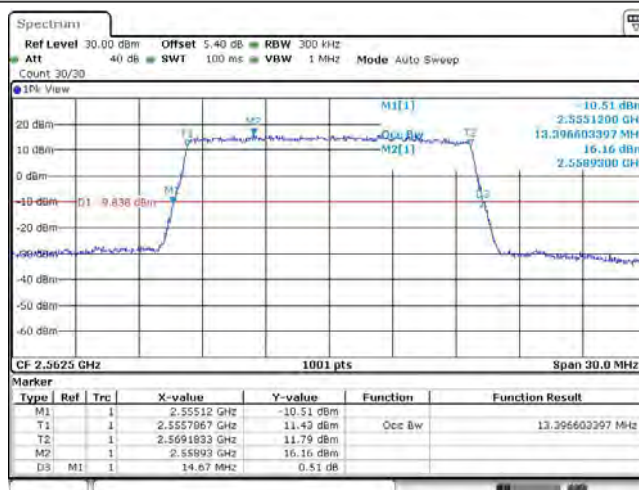
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Band7 15MHz 16QAM 21375 75RB#0



Date: 13 MAR 2020 03:30:11

Band7 20MHz QPSK 20850 100RB#0



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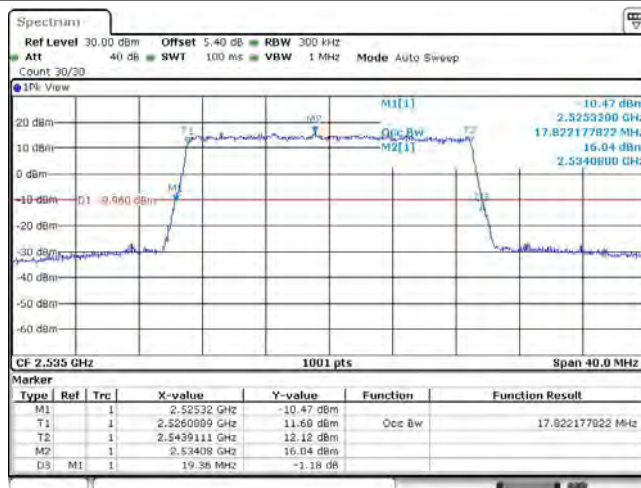
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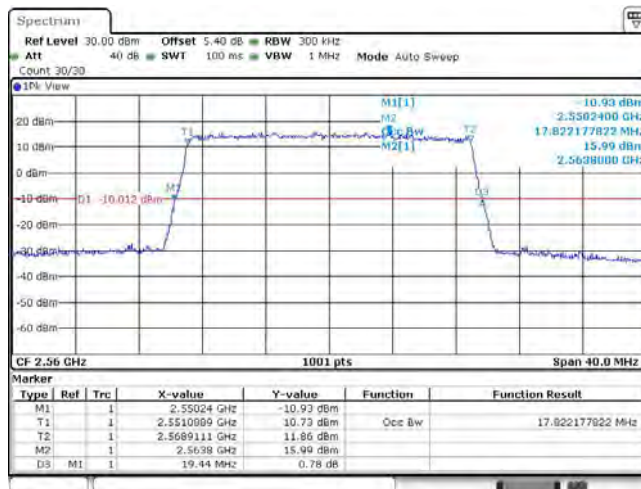
Band7_20MHz_QPSK_21100_100RB#0



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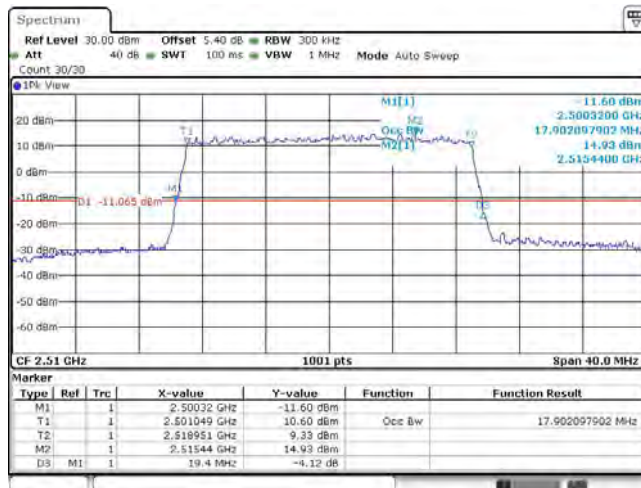
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Date: 13 MAR 2020 03:31:34

Band7_20MHz_16QAM_20850_100RB#0



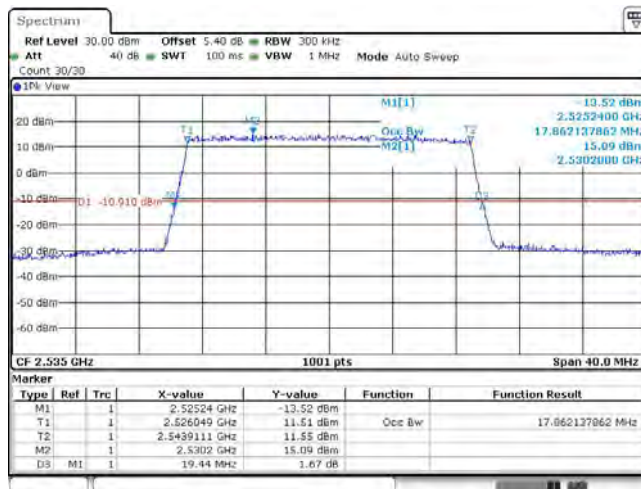
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Band7_20MHz_16QAM_21100_100RB#0



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Date: 13 MAR 2020 03:31:19

Band7	20MHz	16QAM	21350	100RB#0
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Date: 13 MAR 2020 03:31:50



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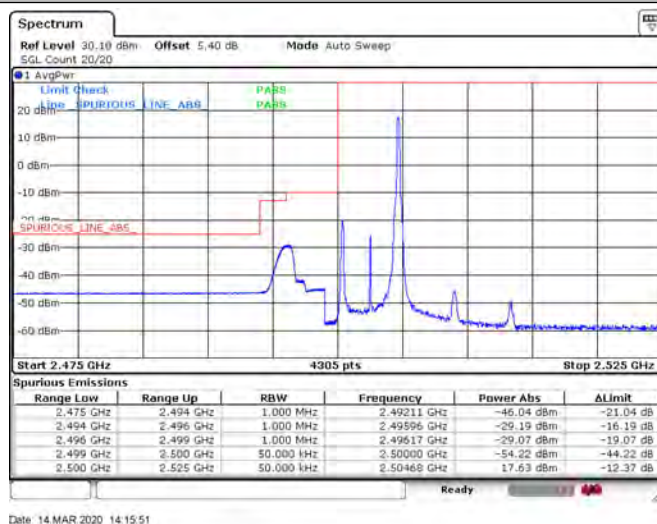
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5. Band Edge Compliance

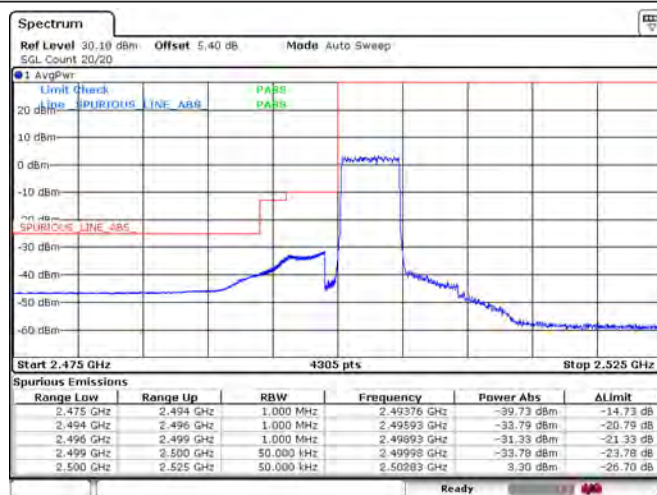
5.1. Test Plots

Band7_5MHz_QPSK_20775_1RB#0



Date 14 MAR 2020 14:15:51

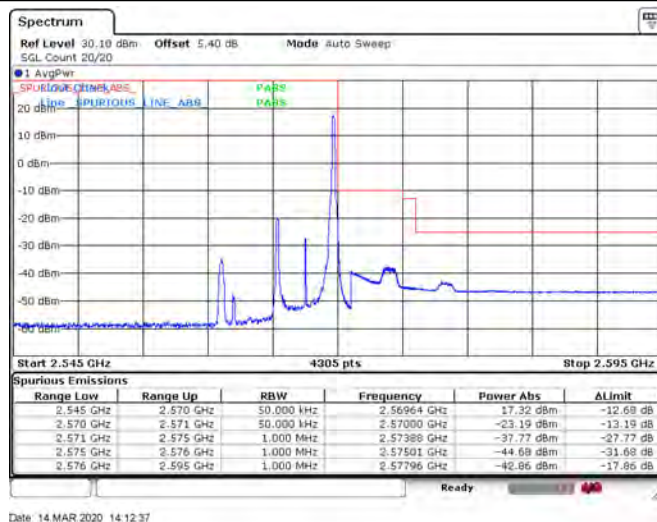
Band7_5MHz_QPSK_20775_25RB#0



Date 14 MAR 2020 10:38:45

Band7_5MHz_QPSK_21425_1RB#24





Band7_5MHz_QPSK_21425_25RB#0

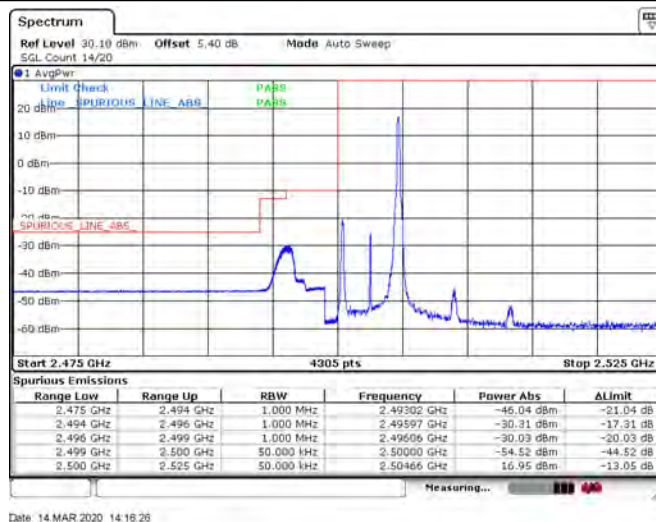


Band7_5MHz_16QAM_20775_1RB#0

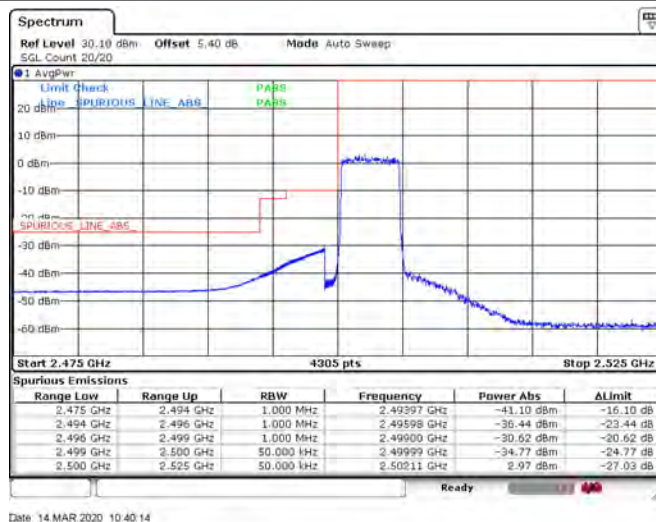


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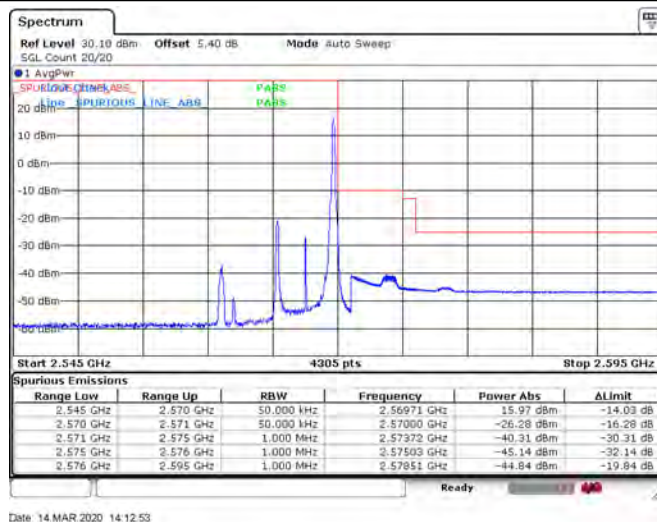


Band7_5MHz_16QAM_20775_25RB#0

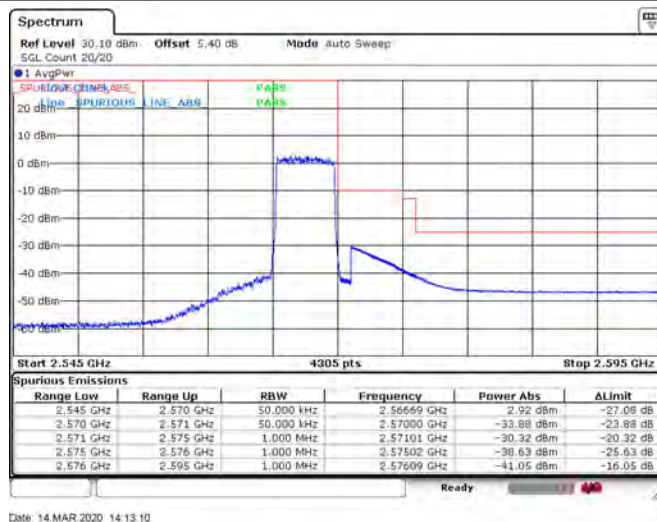


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Band7_5MHz_16QAM_21425_25RB#0

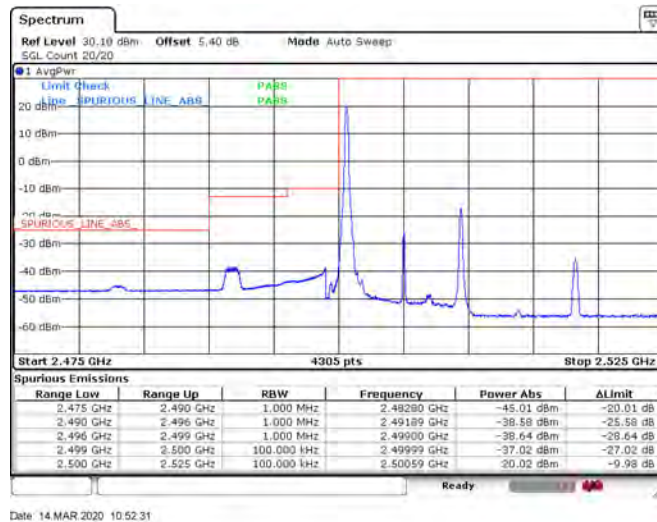


Band7_10MHz_QPSK_20800_1RB#0

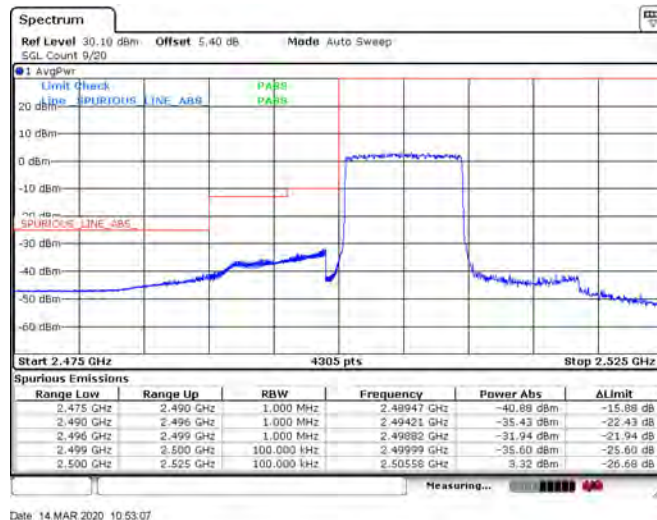


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Band7_10MHz_QPSK_20800_50RB#0

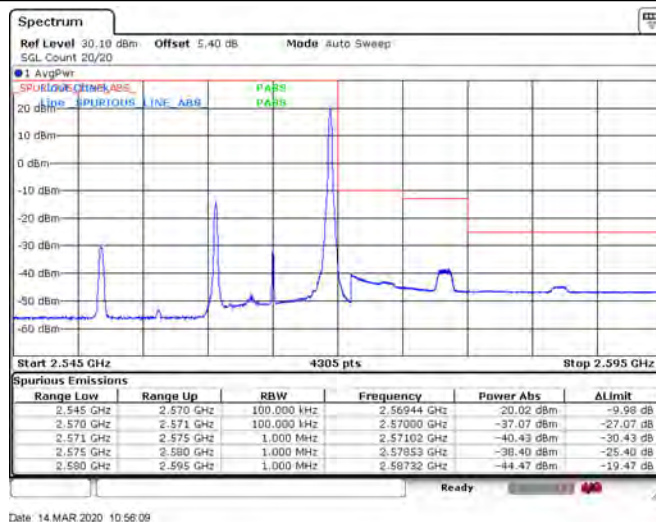


Band7_10MHz_QPSK_21400_1RB#49

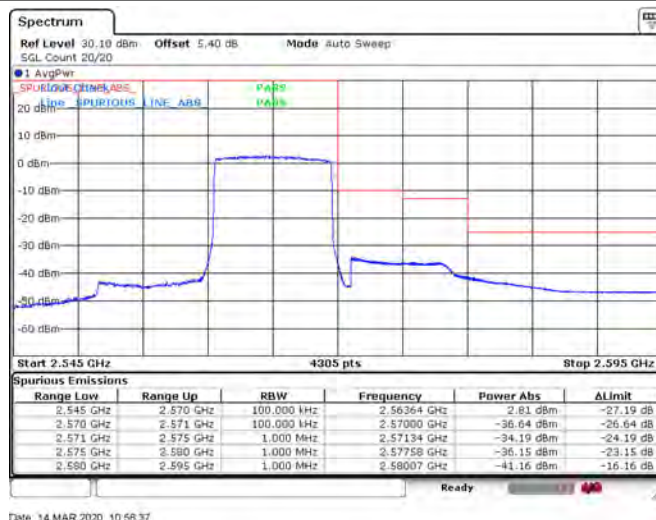


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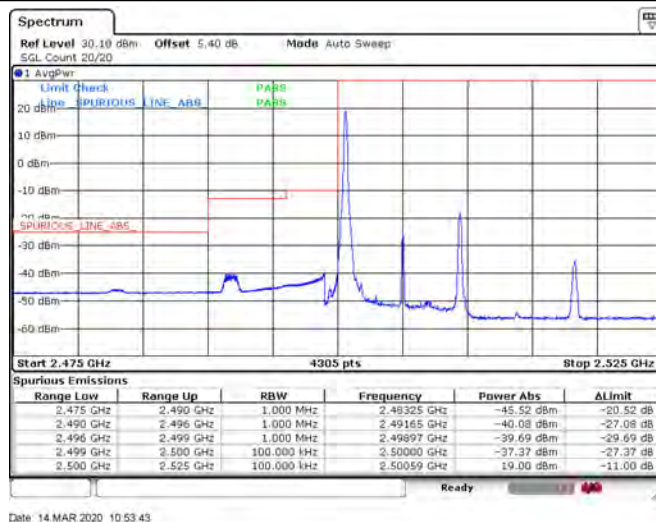


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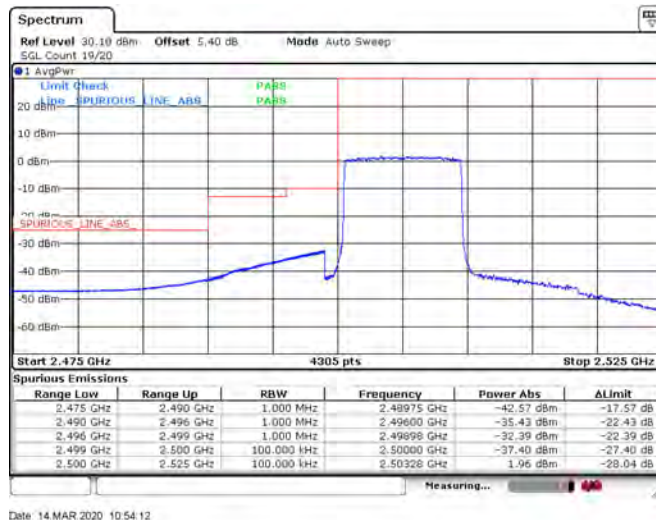
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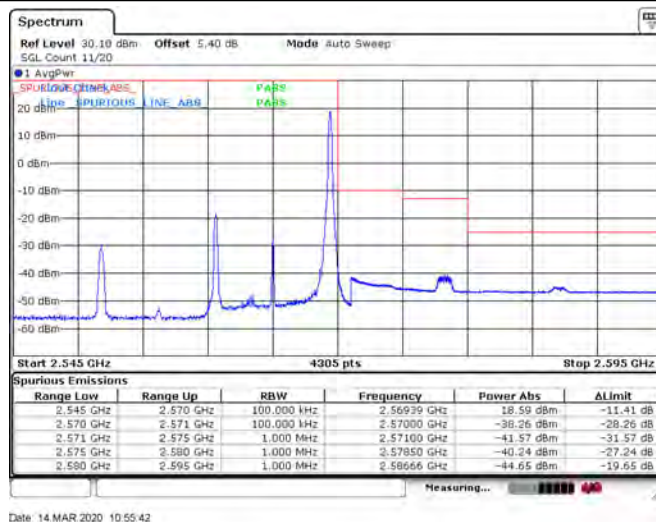
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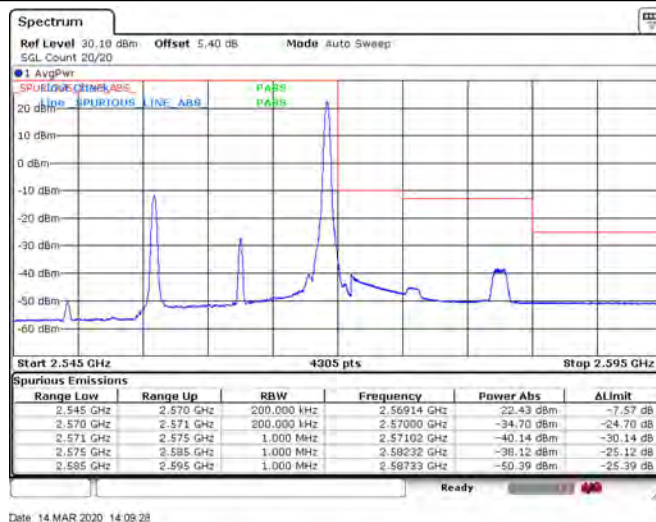


Band7_15MHz_QPSK_20825_1RB#0

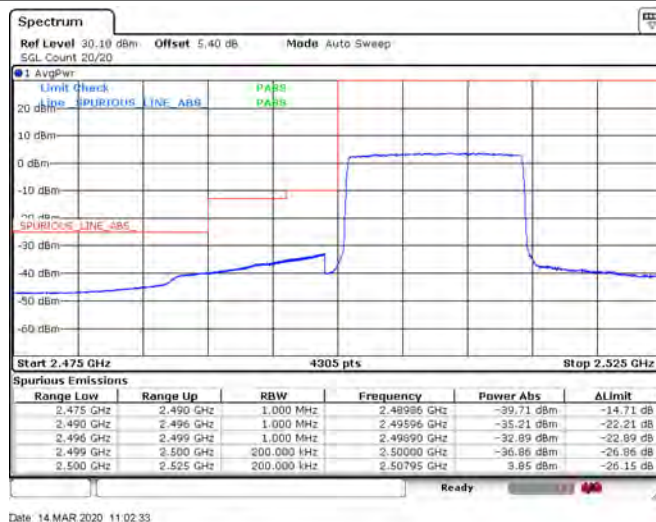


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Band7_15MHz_QPSK_20825_75RB#0

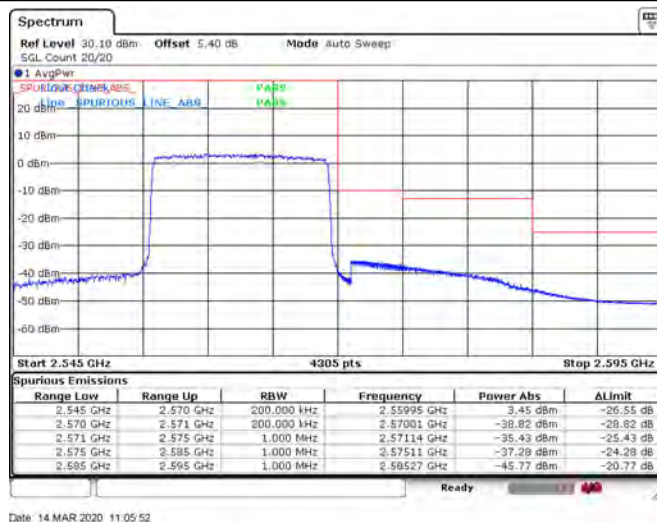


Band7_15MHz_QPSK_21375_1RB#74



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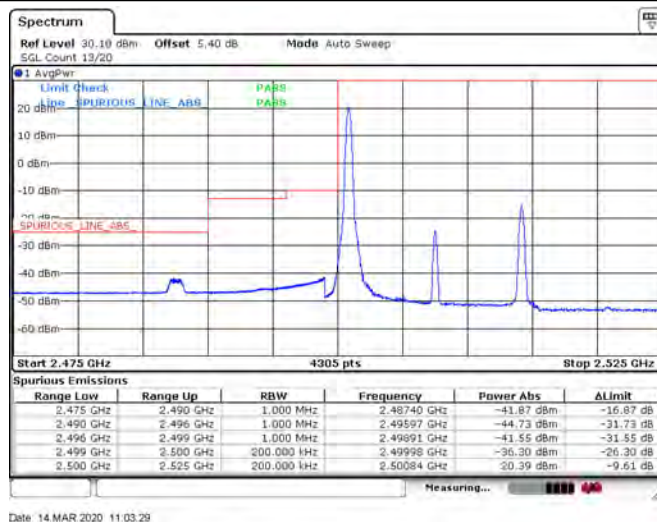


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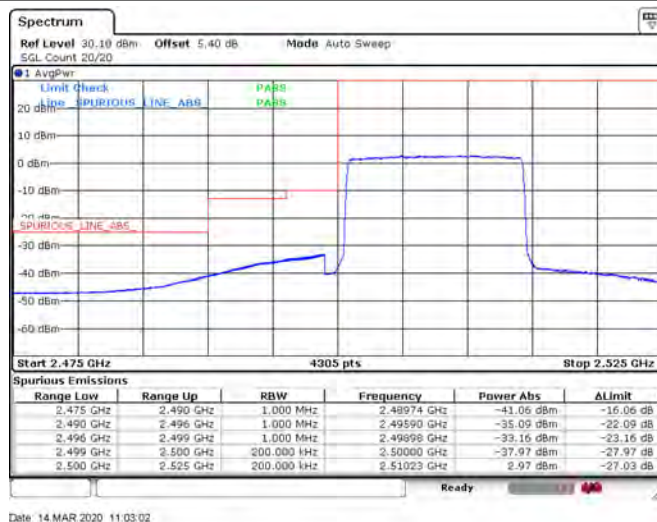


Band7_15MHz_16QAM_20825_1RB#0



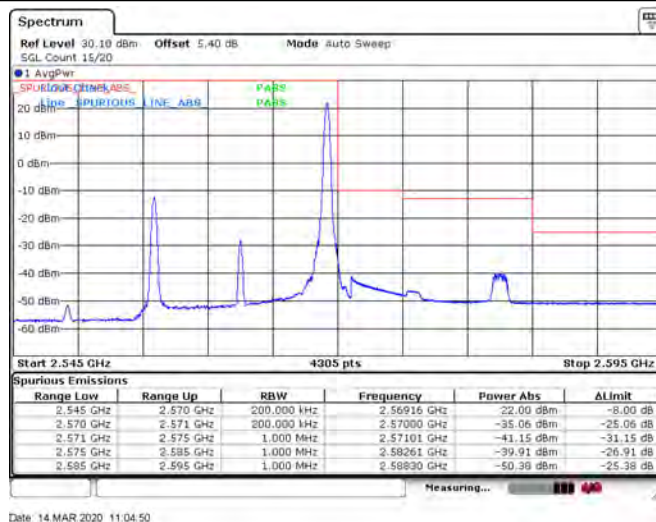


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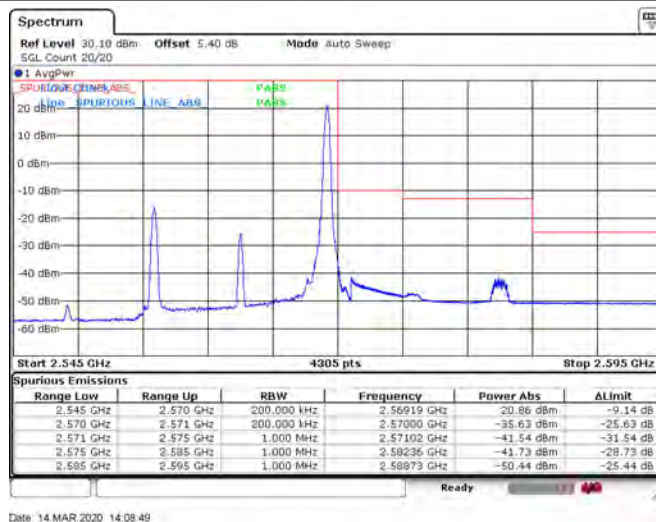


Band7_15MHz_16QAM_21375_1RB#74





Band7_15MHz_16QAM_21375_75RB#0

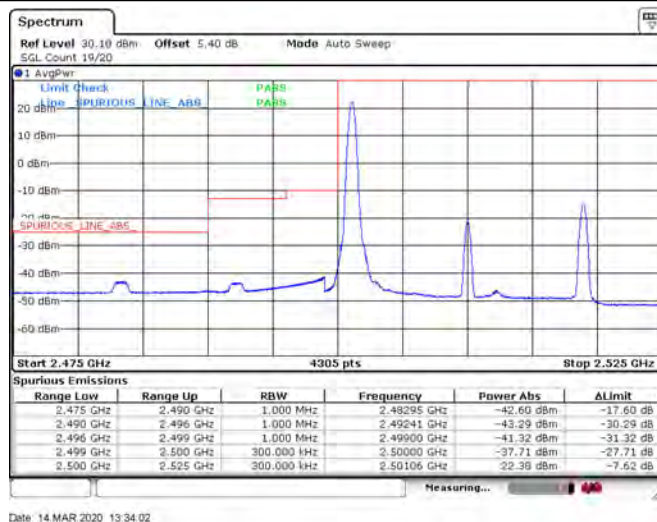


Band7_20MHz_QPSK_20850_1RB#0

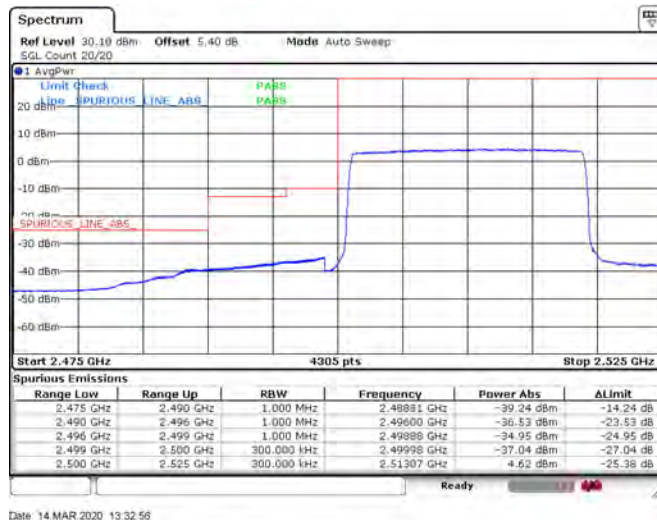


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Band7_20MHz_QPSK_20850_100RB#0

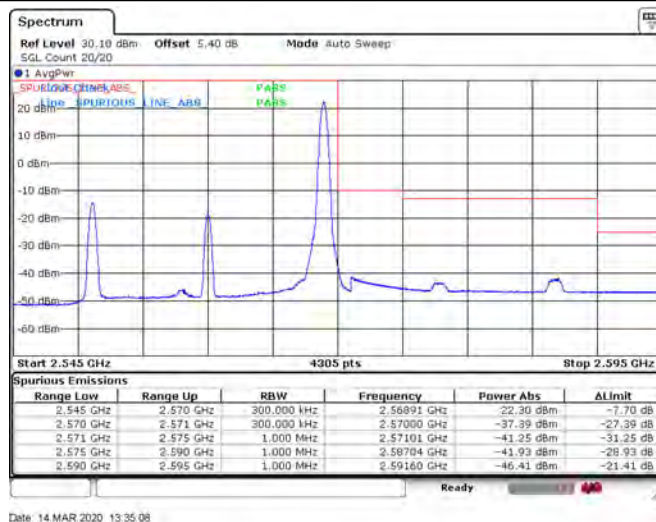


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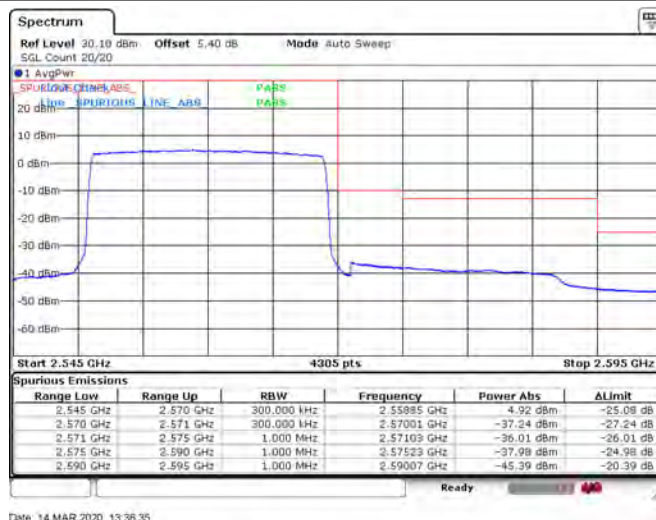


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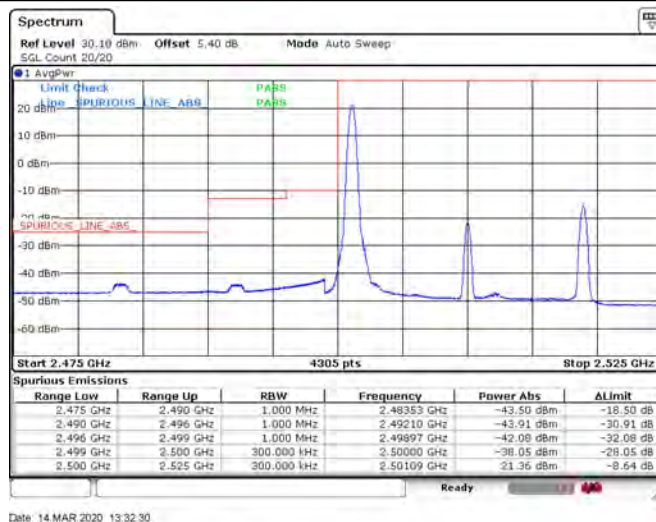


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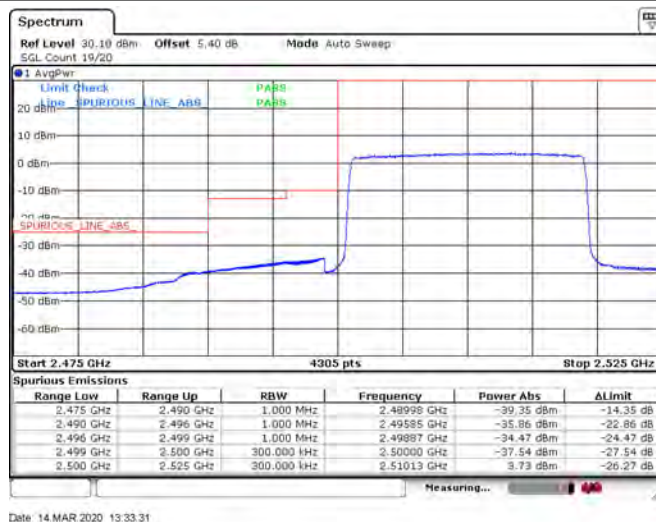


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Band7_20MHz_16QAM_20850_100RB#0

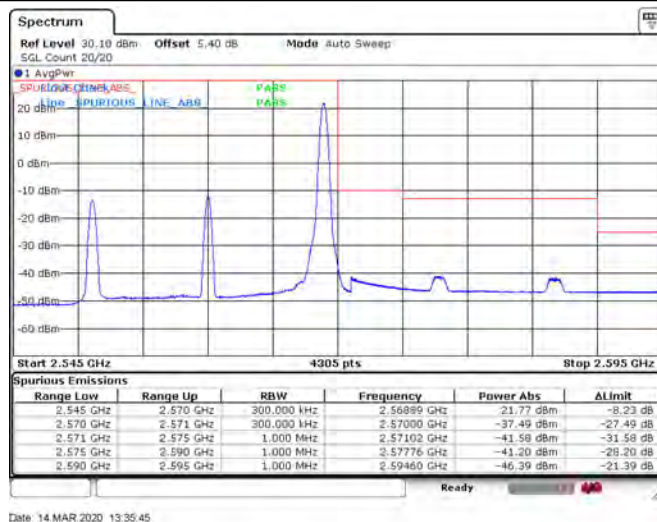


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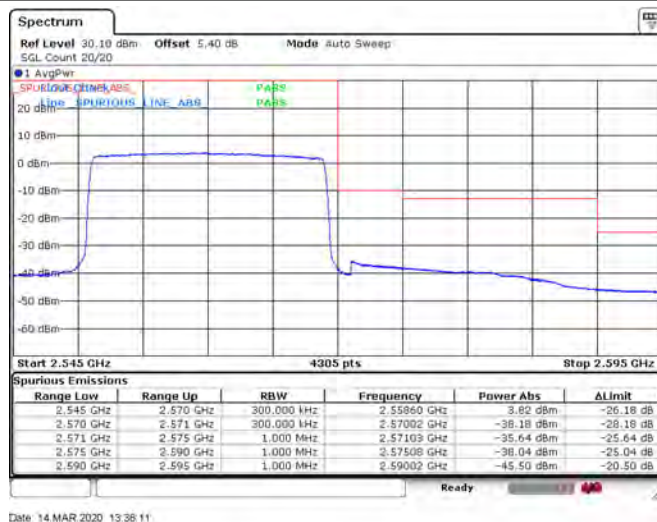


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Band7_20MHz_16QAM_21350_100RB#0





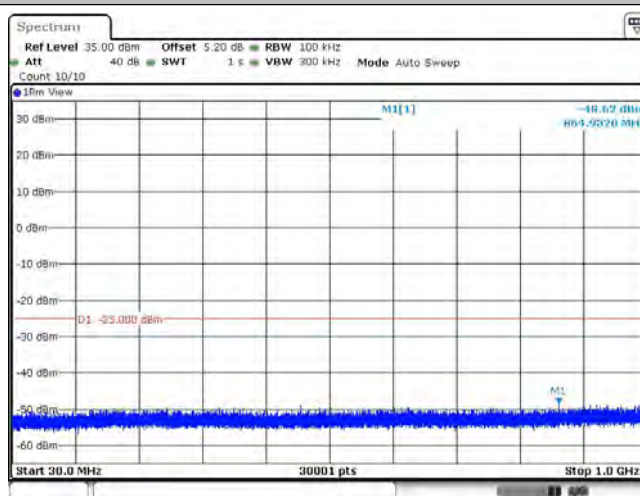
6. Spurious Emission at Antenna Terminal

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 = $k * (\text{Span} / RBW)$ " 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.

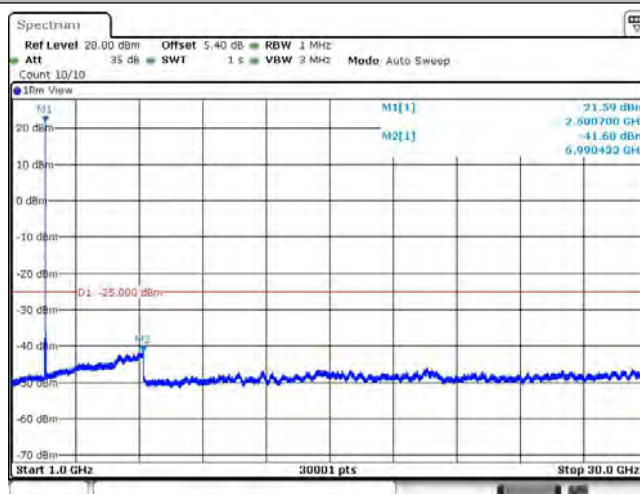
6.1. Test Plots

Band7_20MHz_QPSK_20850_1RB#0



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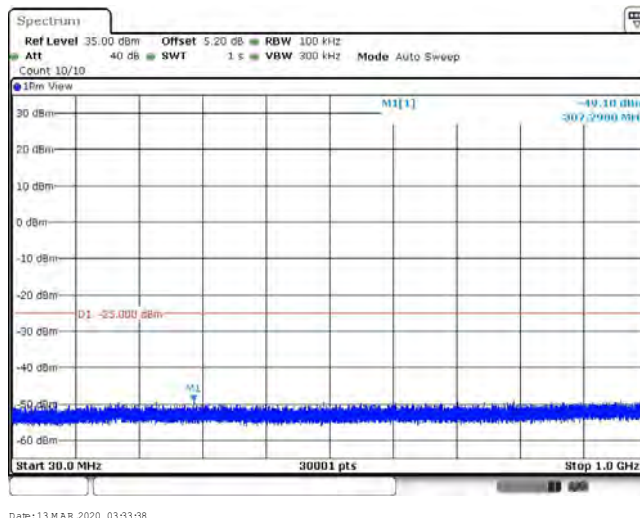
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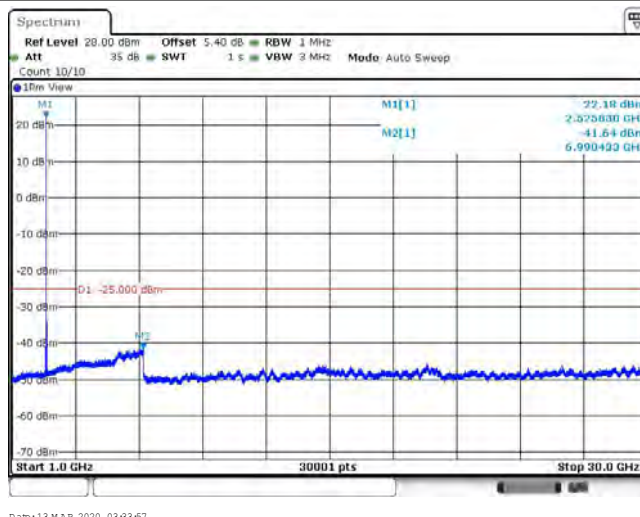
Date: 13 MAR 2020 03:32:35

Band7_20MHz_QPSK_21100_1RB#0



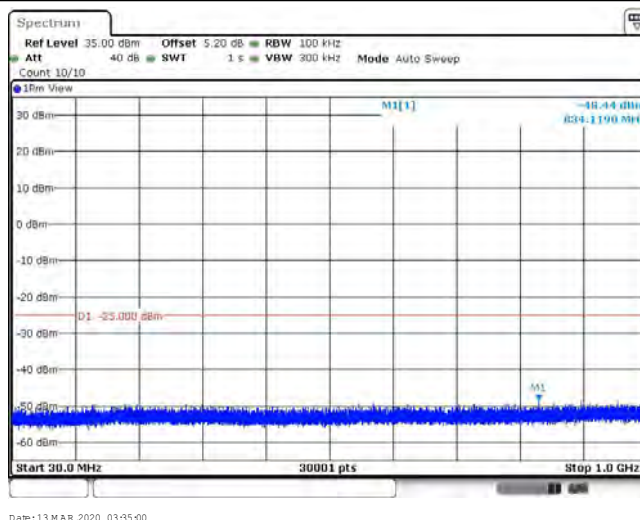


Band7_20MHz_QPSK_21100_1RB#0



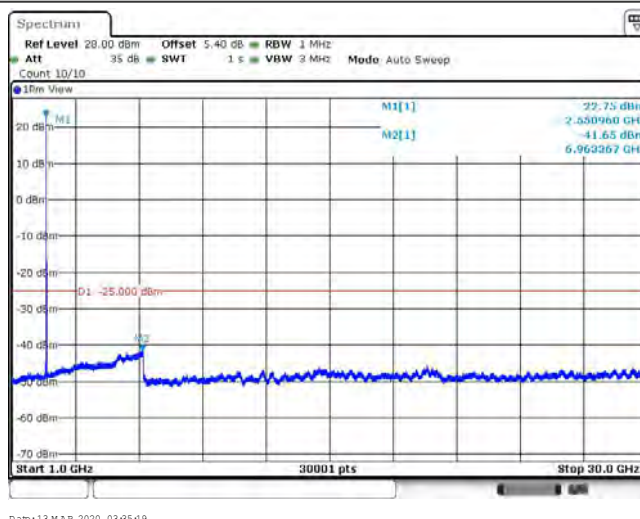
Band7_20MHz_QPSK_21350_1RB#0





Date: 13 MAR 2020 03:35:00

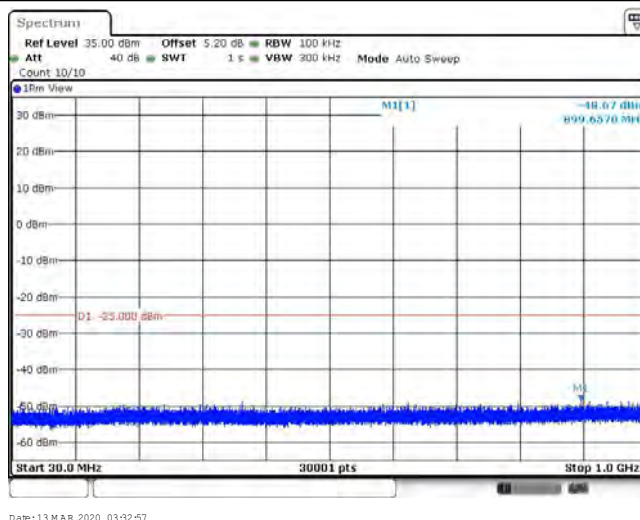
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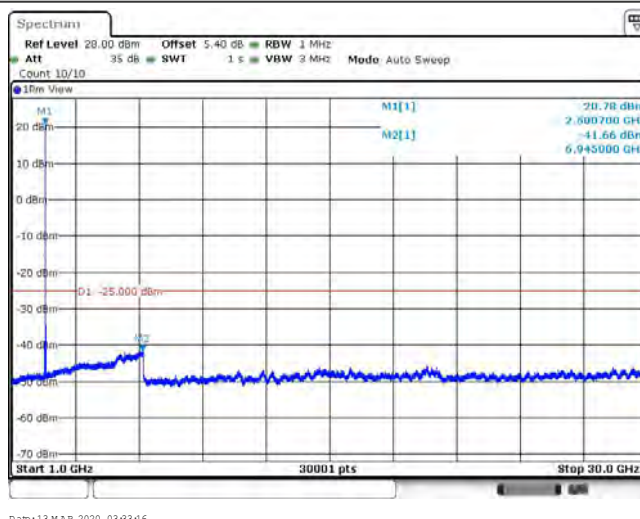
Band7_20MHz_16QAM_20850_1RB#0





Date: 13 MAR 2020 03:32:57

Band7_20MHz_16QAM_20850_1RB#0



Date: 13 MAR 2020 03:33:16

Band7_20MHz_16QAM_21100_1RB#0

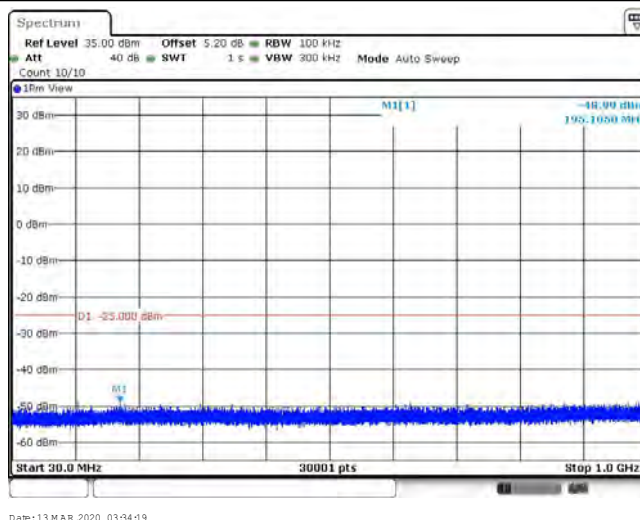


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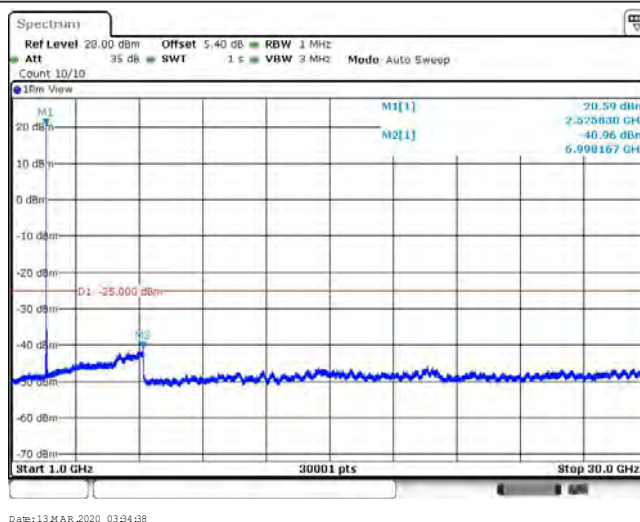
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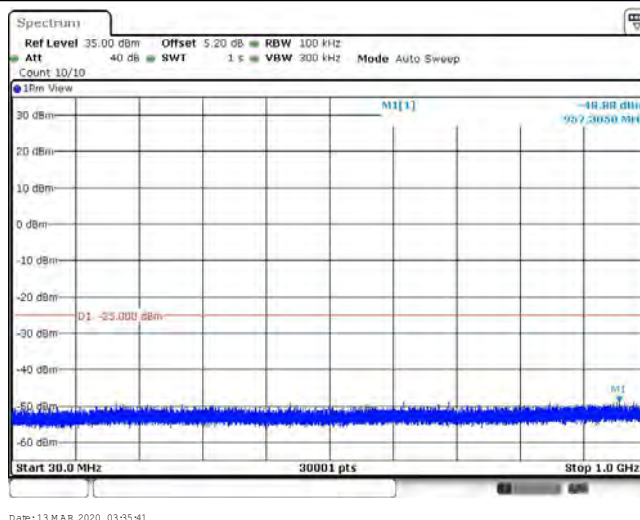


Band7_20MHz_16QAM_21100_1RB#0

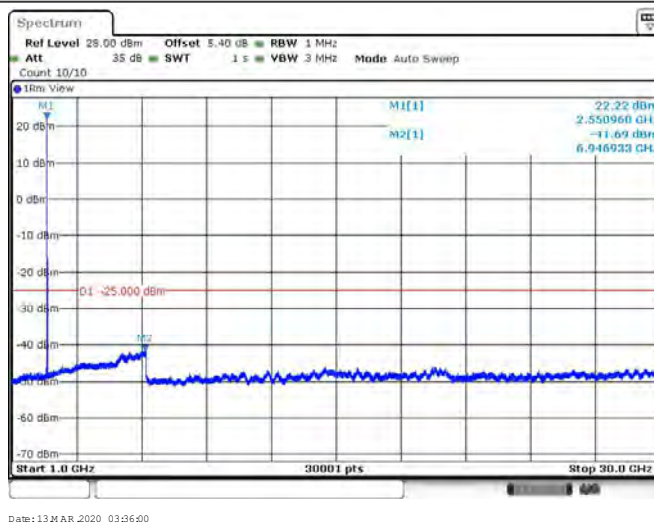


Band7_20MHz_16QAM_21350_1RB#0





Band7_20MHz_16QAM_21350_1RB#0





7. Field Strength of Spurious Radiation

7.1. Test Band = LTE Band 7

7.1.1. Test Mode = LTE/TM1

7.1.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
105.9063	-65.90	-25.00	40.90	Vertical
622.8936	-64.80	-25.00	39.80	Vertical
5002.2801	-59.23	-25.00	34.23	Vertical
7503.1801	-56.77	-25.00	31.77	Vertical
14481.4593	-49.18	-25.00	24.18	Vertical
17992.1997	-42.53	-25.00	17.53	Vertical
45.3753	-65.08	-25.00	40.08	Horizontal
239.5790	-69.38	-25.00	44.38	Horizontal
574.7792	-64.96	-25.00	39.96	Horizontal
7503.1801	-58.49	-25.00	33.49	Horizontal
16382.9353	-46.19	-25.00	21.19	Horizontal
17988.5995	-47.21	-25.00	22.21	Horizontal

7.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
110.2230	-65.34	-25.00	40.34	Vertical
612.8051	-63.22	-25.00	38.22	Vertical
5052.0821	-60.52	-25.00	35.52	Vertical
7578.1831	-55.34	-25.00	30.34	Vertical
14479.0592	-49.75	-25.00	24.75	Vertical
17996.9999	-42.20	-25.00	17.20	Vertical
39.6520	-63.88	-25.00	38.88	Horizontal
232.7886	-68.84	-25.00	43.84	Horizontal
3552.0221	-63.53	-25.00	38.53	Horizontal
7459.3784	-58.48	-25.00	33.48	Horizontal
16400.9360	-46.31	-25.00	21.31	Horizontal
17999.4000	-47.38	-25.00	22.38	Horizontal



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7.1.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
108.8164	-65.09	-25.00	40.09	Vertical
606.2088	-65.06	-25.00	40.06	Vertical
5101.8841	-57.57	-25.00	32.57	Vertical
9314.6526	-54.64	-25.00	29.64	Vertical
14487.4595	-49.81	-25.00	24.81	Vertical
17997.5999	-42.42	-25.00	17.42	Vertical
41.5436	-65.06	-25.00	40.06	Horizontal
231.2851	-69.23	-25.00	44.23	Horizontal
5102.4841	-61.09	-25.00	36.09	Horizontal
9314.0526	-54.69	-25.00	29.69	Horizontal
16362.5345	-46.85	-25.00	21.85	Horizontal
17995.7998	-46.60	-25.00	21.60	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 had been displayed.



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8. Frequency Stability

8.1. Frequency Vs Voltage

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	-7.20	-0.002869	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	VN	NT	-16.20	-0.006454	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	VH	NT	-7.70	-0.003068	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VL	NT	-4.50	-0.001775	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VN	NT	-0.20	-0.000079	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VH	NT	-9.60	-0.003787	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VL	NT	6.20	0.002422	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VN	NT	-2.00	-0.000781	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VH	NT	-3.70	-0.001445	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	VL	NT	-17.90	-0.007131	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	VN	NT	-11.30	-0.004502	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	VH	NT	-18.10	-0.007211	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	VL	NT	-0.40	-0.000158	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	VN	NT	4.50	0.001775	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	VH	NT	-4.10	-0.001617	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	VL	NT	3.40	0.001328	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	VN	NT	-5.40	-0.002109	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	VH	NT	-2.80	-0.001094	±2.5	PASS

8.2. Frequency Vs Temperature

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	-11.00	-0.004382	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	-20	-16.00	-0.006375	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	0	-14.90	-0.005936	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	10	-13.70	-0.005458	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	20	-12.70	-0.005060	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	30	-16.70	-0.006653	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	40	-5.30	-0.002112	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	50	-9.00	-0.003586	±2.5	PASS



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Band7	20MHz	QPSK	21100	100RB#0	NV	-30	6.30	0.002485	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-20	4.60	0.001815	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	0	2.20	0.000868	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	10	4.10	0.001617	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	20	2.70	0.001065	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	30	1.90	0.000750	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	40	3.70	0.001460	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	50	2.60	0.001026	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	-30	-8.40	-0.003281	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	-20	5.50	0.002148	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	0	-7.60	-0.002969	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	10	-0.30	-0.000117	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	20	-1.70	-0.000664	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	30	-2.20	-0.000859	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	40	-9.90	-0.003867	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	50	0.90	0.000352	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	-30	-17.60	-0.007012	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	-20	-8.50	-0.003386	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	0	-4.00	-0.001594	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	10	-3.20	-0.001275	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	20	-4.80	-0.001912	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	30	-7.50	-0.002988	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	40	-12.20	-0.004861	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	50	-18.30	-0.007291	±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	-20	3.50	0.001381	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	0	-4.90	-0.001933	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	10	4.50	0.001775	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	20	-4.60	-0.001815	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	30	3.80	0.001499	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	40	-5.60	-0.002209	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	50	1.30	0.000513	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	-30	4.80	0.001875	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	-20	-5.80	-0.002266	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	0	1.30	0.000508	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	10	6.80	0.002656	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	20	-7.10	-0.002773	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	30	-1.70	-0.000664	±2.5	PASS



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Band7	20MHz	16QAM	21350	100RB#0	NV	40	-0.90	-0.000352	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	50	3.00	0.001172	±2.5	PASS

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