



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	24.09	24.68	33.00	PASS
Band7	5MHz	QPSK	20775	1RB#12	24.36	24.95	33.00	PASS
Band7	5MHz	QPSK	20775	1RB#24	24.09	24.68	33.00	PASS
Band7	5MHz	QPSK	20775	12RB#0	23.27	23.86	33.00	PASS
Band7	5MHz	QPSK	20775	12RB#6	23.32	23.91	33.00	PASS
Band7	5MHz	QPSK	20775	12RB#13	23.27	23.86	33.00	PASS
Band7	5MHz	QPSK	20775	25RB#0	23.29	23.88	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#0	24.05	24.64	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#24	24.02	24.61	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#12	24.29	24.88	33.00	PASS
Band7	5MHz	QPSK	21100	12RB#0	23.18	23.77	33.00	PASS
Band7	5MHz	QPSK	21100	12RB#6	23.21	23.80	33.00	PASS
Band7	5MHz	QPSK	21100	12RB#13	23.14	23.73	33.00	PASS
Band7	5MHz	QPSK	21100	25RB#0	23.19	23.78	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#24	24.09	24.68	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#0	24.03	24.62	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#12	24.33	24.92	33.00	PASS
Band7	5MHz	QPSK	21425	12RB#0	23.26	23.85	33.00	PASS
Band7	5MHz	QPSK	21425	12RB#6	23.30	23.89	33.00	PASS
Band7	5MHz	QPSK	21425	12RB#13	23.25	23.84	33.00	PASS
Band7	5MHz	QPSK	21425	25RB#0	23.26	23.85	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#0	23.25	23.84	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#12	23.56	24.15	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#24	23.19	23.78	33.00	PASS
Band7	5MHz	16QAM	20775	12RB#6	22.26	22.85	33.00	PASS
Band7	5MHz	16QAM	20775	12RB#0	22.22	22.81	33.00	PASS
Band7	5MHz	16QAM	20775	12RB#13	22.23	22.82	33.00	PASS
Band7	5MHz	16QAM	20775	25RB#0	22.23	22.82	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#0	23.25	23.84	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#12	23.50	24.09	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#24	23.16	23.75	33.00	PASS
Band7	5MHz	16QAM	21100	12RB#13	22.13	22.72	33.00	PASS
Band7	5MHz	16QAM	21100	12RB#0	22.16	22.75	33.00	PASS
Band7	5MHz	16QAM	21100	12RB#6	22.21	22.80	33.00	PASS
Band7	5MHz	16QAM	21100	25RB#0	22.15	22.74	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#12	23.55	24.14	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#0	23.18	23.77	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#24	23.29	23.88	33.00	PASS



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Band7	5MHz	16QAM	21425	12RB#0	22.23	22.82	33.00	PASS
Band7	5MHz	16QAM	21425	12RB#6	22.26	22.85	33.00	PASS
Band7	5MHz	16QAM	21425	12RB#13	22.22	22.81	33.00	PASS
Band7	5MHz	16QAM	21425	25RB#0	22.21	22.80	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#24	24.34	24.93	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#49	24.23	24.82	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#0	24.29	24.88	33.00	PASS
Band7	10MHz	QPSK	20800	25RB#0	23.39	23.98	33.00	PASS
Band7	10MHz	QPSK	20800	25RB#12	23.35	23.94	33.00	PASS
Band7	10MHz	QPSK	20800	25RB#25	23.35	23.94	33.00	PASS
Band7	10MHz	QPSK	20800	50RB#0	23.35	23.94	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#0	24.19	24.78	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#49	24.12	24.71	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#24	24.24	24.83	33.00	PASS
Band7	10MHz	QPSK	21100	25RB#25	23.19	23.78	33.00	PASS
Band7	10MHz	QPSK	21100	25RB#0	23.29	23.88	33.00	PASS
Band7	10MHz	QPSK	21100	25RB#12	23.24	23.83	33.00	PASS
Band7	10MHz	QPSK	21100	50RB#0	23.24	23.83	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#24	24.23	24.82	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#0	24.15	24.74	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#49	24.16	24.75	33.00	PASS
Band7	10MHz	QPSK	21400	25RB#0	23.33	23.92	33.00	PASS
Band7	10MHz	QPSK	21400	25RB#25	23.28	23.87	33.00	PASS
Band7	10MHz	QPSK	21400	25RB#12	23.27	23.86	33.00	PASS
Band7	10MHz	QPSK	21400	50RB#0	23.29	23.88	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#49	23.34	23.93	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#0	23.31	23.90	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#24	23.50	24.09	33.00	PASS
Band7	10MHz	16QAM	20800	25RB#25	22.29	22.88	33.00	PASS
Band7	10MHz	16QAM	20800	25RB#12	22.29	22.88	33.00	PASS
Band7	10MHz	16QAM	20800	25RB#0	22.32	22.91	33.00	PASS
Band7	10MHz	16QAM	20800	50RB#0	22.29	22.88	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#49	23.26	23.85	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#0	23.41	24.00	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#24	23.40	23.99	33.00	PASS
Band7	10MHz	16QAM	21100	25RB#25	22.18	22.77	33.00	PASS
Band7	10MHz	16QAM	21100	25RB#0	22.28	22.87	33.00	PASS
Band7	10MHz	16QAM	21100	25RB#12	22.22	22.81	33.00	PASS
Band7	10MHz	16QAM	21100	50RB#0	22.20	22.79	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#24	23.44	24.03	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#0	23.40	23.99	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#49	23.30	23.89	33.00	PASS
Band7	10MHz	16QAM	21400	25RB#0	22.29	22.88	33.00	PASS
Band7	10MHz	16QAM	21400	25RB#12	22.24	22.83	33.00	PASS
Band7	10MHz	16QAM	21400	25RB#25	22.24	22.83	33.00	PASS
Band7	10MHz	16QAM	21400	50RB#0	22.25	22.84	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#0	24.21	24.80	33.00	PASS



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Band7	15MHz	QPSK	20825	1RB#38	24.24	24.83	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#74	24.14	24.73	33.00	PASS
Band7	15MHz	QPSK	20825	36RB#0	23.34	23.93	33.00	PASS
Band7	15MHz	QPSK	20825	36RB#18	23.33	23.92	33.00	PASS
Band7	15MHz	QPSK	20825	36RB#39	23.28	23.87	33.00	PASS
Band7	15MHz	QPSK	20825	75RB#0	23.31	23.90	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#0	24.12	24.71	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#74	24.00	24.59	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#38	24.14	24.73	33.00	PASS
Band7	15MHz	QPSK	21100	36RB#0	23.27	23.86	33.00	PASS
Band7	15MHz	QPSK	21100	36RB#18	23.22	23.81	33.00	PASS
Band7	15MHz	QPSK	21100	36RB#39	23.16	23.75	33.00	PASS
Band7	15MHz	QPSK	21100	75RB#0	23.23	23.82	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#74	24.06	24.65	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#0	24.09	24.68	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#38	24.11	24.70	33.00	PASS
Band7	15MHz	QPSK	21375	36RB#0	23.28	23.87	33.00	PASS
Band7	15MHz	QPSK	21375	36RB#18	23.25	23.84	33.00	PASS
Band7	15MHz	QPSK	21375	36RB#39	23.24	23.83	33.00	PASS
Band7	15MHz	QPSK	21375	75RB#0	23.24	23.83	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#0	23.34	23.93	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#38	23.37	23.96	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#74	23.30	23.89	33.00	PASS
Band7	15MHz	16QAM	20825	36RB#18	22.23	22.82	33.00	PASS
Band7	15MHz	16QAM	20825	36RB#0	22.23	22.82	33.00	PASS
Band7	15MHz	16QAM	20825	36RB#39	22.22	22.81	33.00	PASS
Band7	15MHz	16QAM	20825	75RB#0	22.25	22.84	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#0	23.32	23.91	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#38	23.30	23.89	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#74	23.16	23.75	33.00	PASS
Band7	15MHz	16QAM	21100	36RB#39	22.10	22.69	33.00	PASS
Band7	15MHz	16QAM	21100	36RB#0	22.19	22.78	33.00	PASS
Band7	15MHz	16QAM	21100	36RB#18	22.14	22.73	33.00	PASS
Band7	15MHz	16QAM	21100	75RB#0	22.16	22.75	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#38	23.26	23.85	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#0	23.34	23.93	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#74	23.21	23.80	33.00	PASS
Band7	15MHz	16QAM	21375	36RB#0	22.20	22.79	33.00	PASS
Band7	15MHz	16QAM	21375	36RB#18	22.21	22.80	33.00	PASS
Band7	15MHz	16QAM	21375	36RB#39	22.16	22.75	33.00	PASS
Band7	15MHz	16QAM	21375	75RB#0	22.19	22.78	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#99	23.99	24.58	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#49	24.33	24.92	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#0	24.16	24.75	33.00	PASS
Band7	20MHz	QPSK	20850	50RB#0	23.33	23.92	33.00	PASS
Band7	20MHz	QPSK	20850	50RB#25	23.31	23.90	33.00	PASS
Band7	20MHz	QPSK	20850	50RB#50	23.26	23.85	33.00	PASS



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Band7	20MHz	QPSK	20850	100RB#0	23.28	23.87	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#0	24.07	24.66	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#99	23.89	24.48	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#49	24.21	24.80	33.00	PASS
Band7	20MHz	QPSK	21100	50RB#50	23.10	23.69	33.00	PASS
Band7	20MHz	QPSK	21100	50RB#0	23.29	23.88	33.00	PASS
Band7	20MHz	QPSK	21100	50RB#25	23.21	23.80	33.00	PASS
Band7	20MHz	QPSK	21100	100RB#0	23.19	23.78	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#49	24.20	24.79	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#0	24.06	24.65	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#99	23.99	24.58	33.00	PASS
Band7	20MHz	QPSK	21350	50RB#0	23.30	23.89	33.00	PASS
Band7	20MHz	QPSK	21350	50RB#50	23.15	23.74	33.00	PASS
Band7	20MHz	QPSK	21350	50RB#25	23.26	23.85	33.00	PASS
Band7	20MHz	QPSK	21350	100RB#0	23.21	23.80	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#99	23.25	23.84	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#0	23.20	23.79	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#49	23.46	24.05	33.00	PASS
Band7	20MHz	16QAM	20850	50RB#50	22.23	22.82	33.00	PASS
Band7	20MHz	16QAM	20850	50RB#25	22.26	22.85	33.00	PASS
Band7	20MHz	16QAM	20850	50RB#0	22.25	22.84	33.00	PASS
Band7	20MHz	16QAM	20850	100RB#0	22.21	22.80	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#99	23.07	23.66	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#0	23.18	23.77	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#49	23.33	23.92	33.00	PASS
Band7	20MHz	16QAM	21100	50RB#50	22.05	22.64	33.00	PASS
Band7	20MHz	16QAM	21100	50RB#0	22.24	22.83	33.00	PASS
Band7	20MHz	16QAM	21100	50RB#25	22.17	22.76	33.00	PASS
Band7	20MHz	16QAM	21100	100RB#0	22.15	22.74	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#49	23.36	23.95	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#0	23.27	23.86	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#99	23.18	23.77	33.00	PASS
Band7	20MHz	16QAM	21350	50RB#0	22.22	22.81	33.00	PASS
Band7	20MHz	16QAM	21350	50RB#25	22.21	22.80	33.00	PASS
Band7	20MHz	16QAM	21350	50RB#50	22.12	22.71	33.00	PASS
Band7	20MHz	16QAM	21350	100RB#0	22.16	22.75	33.00	PASS

Remark:

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

$$ERP [dBm] = \text{Conducted Power [dBm]} + \text{Gain [dBd]}$$

$$EIRP [dBm] = \text{Conducted Power [dBm]} + \text{Gain [dBi]}$$



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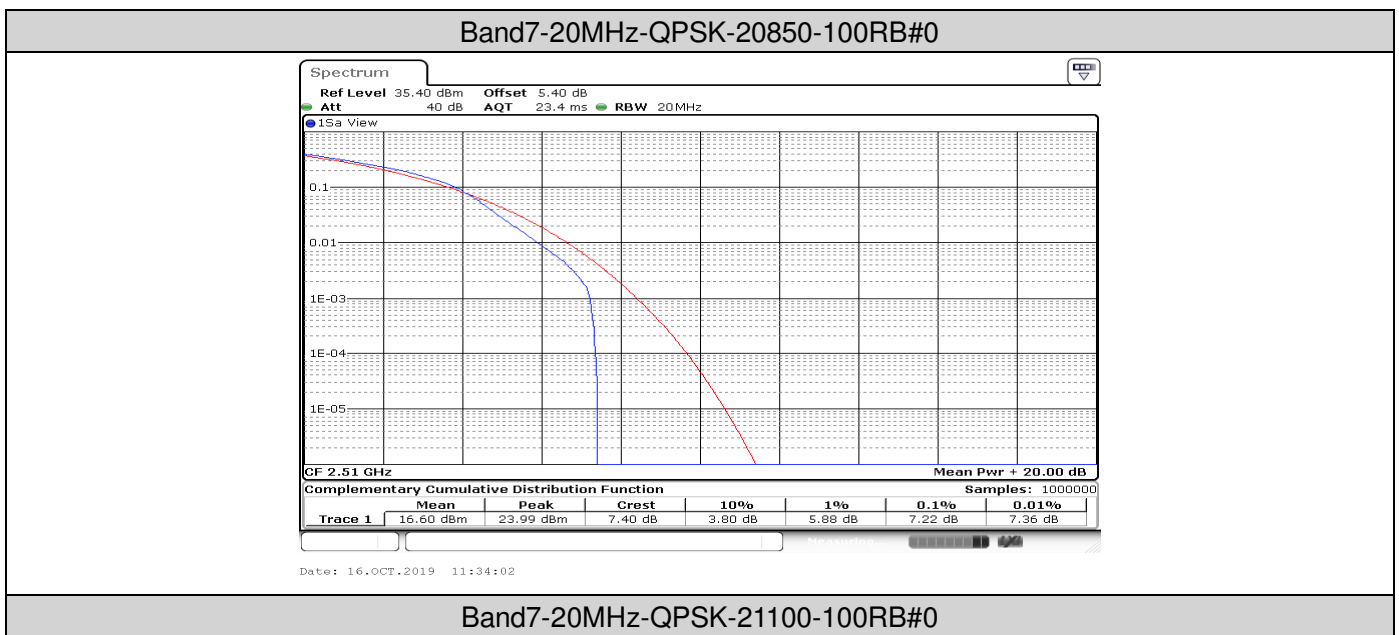


2. Peak-to-Average Ratio (CCDF)

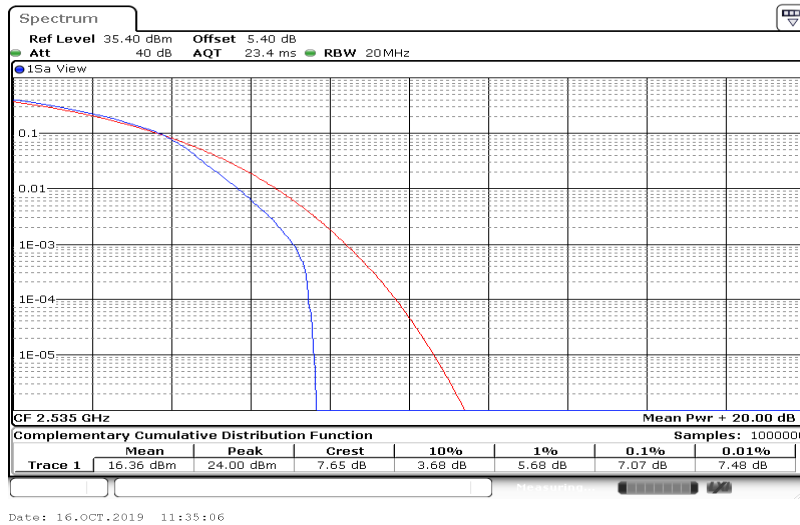
2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band7	20MHz	QPSK	20850	100RB#0	7.22	13	PASS
Band7	20MHz	QPSK	21100	100RB#0	7.07	13	PASS
Band7	20MHz	QPSK	21350	100RB#0	7.19	13	PASS
Band7	20MHz	16QAM	20850	100RB#0	7.42	13	PASS
Band7	20MHz	16QAM	21100	100RB#0	7.42	13	PASS
Band7	20MHz	16QAM	21350	100RB#0	7.42	13	PASS

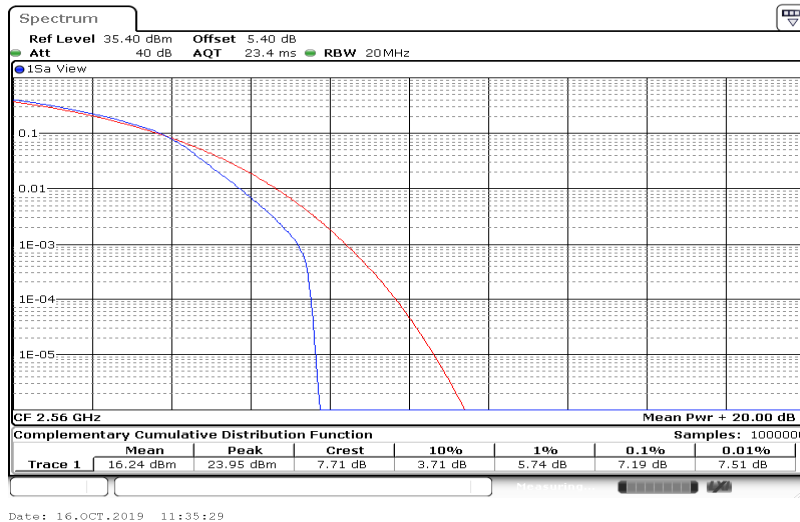
2.2. Test Plots



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

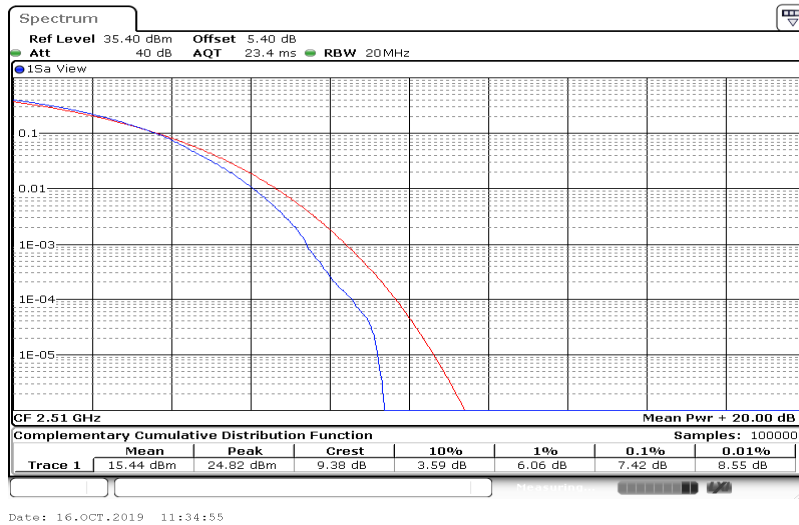


Band7-20MHz-16QAM-20850-100RB#0

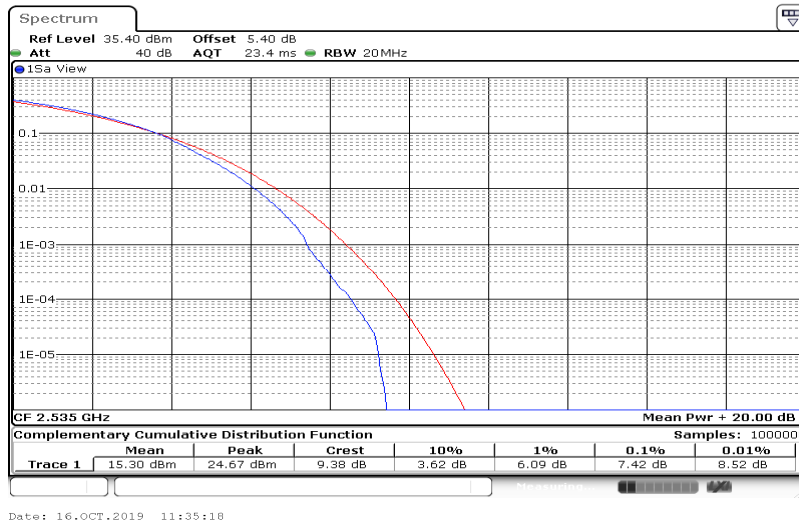


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Band7-20MHz-16QAM-21100-100RB#0

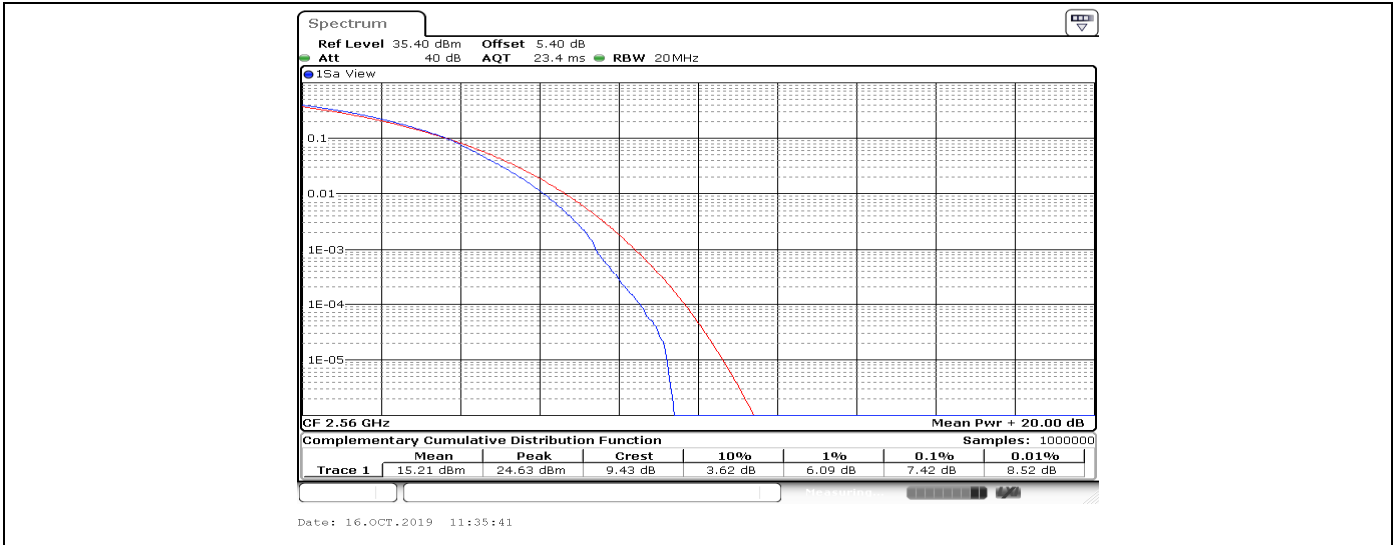


Band7-20MHz-16QAM-21350-100RB#0



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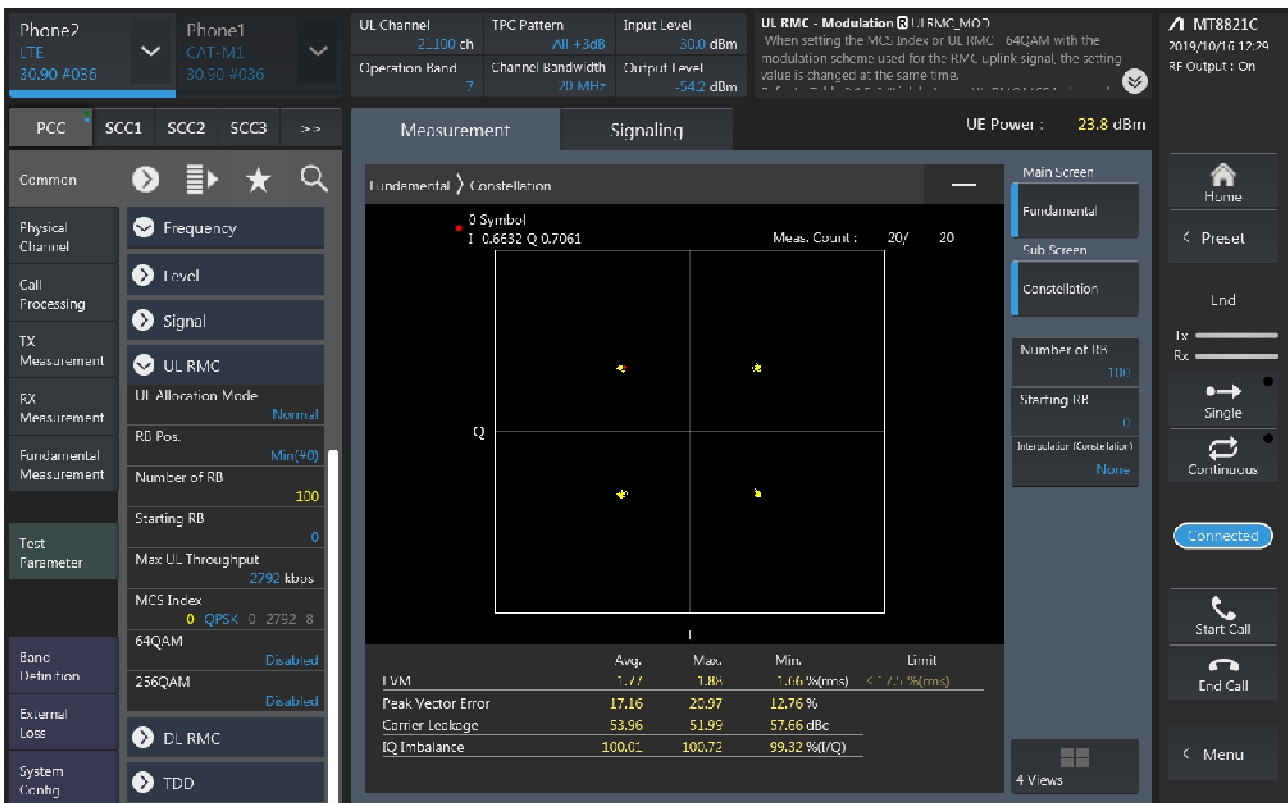
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3. Modulation Characteristics

3.1. Test Band = LTE Band 7

3.1.1. Test Mode = LTE /TM1 20MHz

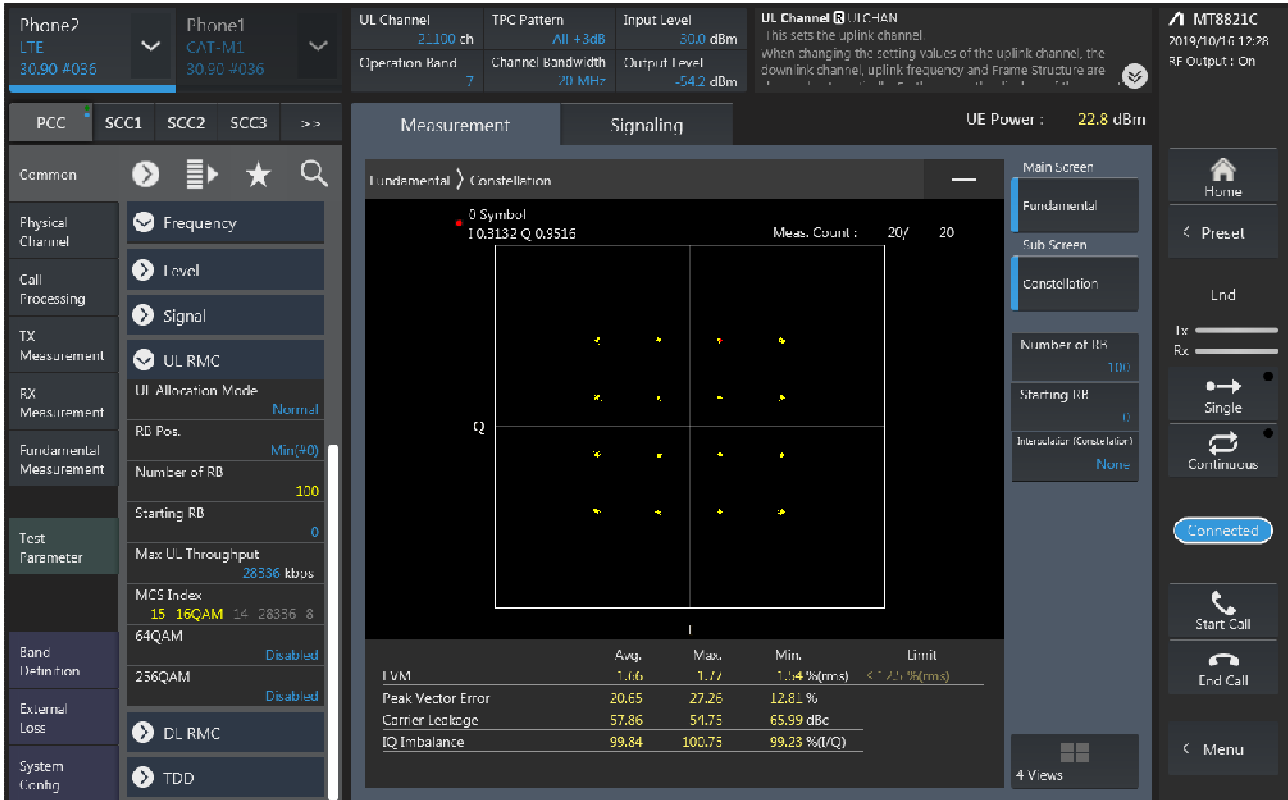
3.1.1.1. Test Channel = MCH



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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	4.466	4.850	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.476	4.840	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.466	4.830	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.486	4.870	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.486	4.850	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.476	4.880	PASS
Band7	10MHz	QPSK	20800	50RB#0	8.931	9.620	PASS
Band7	10MHz	QPSK	21100	50RB#0	8.931	9.600	PASS
Band7	10MHz	QPSK	21400	50RB#0	8.931	9.620	PASS
Band7	10MHz	16QAM	20800	50RB#0	8.931	9.640	PASS
Band7	10MHz	16QAM	21100	50RB#0	8.911	9.620	PASS
Band7	10MHz	16QAM	21400	50RB#0	8.931	9.660	PASS
Band7	15MHz	QPSK	20825	75RB#0	13.457	14.730	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.487	14.700	PASS
Band7	15MHz	QPSK	21375	75RB#0	13.457	14.640	PASS
Band7	15MHz	16QAM	20825	75RB#0	13.427	14.730	PASS
Band7	15MHz	16QAM	21100	75RB#0	13.457	14.700	PASS
Band7	15MHz	16QAM	21375	75RB#0	13.487	14.610	PASS
Band7	20MHz	QPSK	20850	100RB#0	17.862	19.240	PASS
Band7	20MHz	QPSK	21100	100RB#0	17.862	19.440	PASS
Band7	20MHz	QPSK	21350	100RB#0	17.902	19.160	PASS
Band7	20MHz	16QAM	20850	100RB#0	17.902	19.360	PASS
Band7	20MHz	16QAM	21100	100RB#0	17.822	19.240	PASS
Band7	20MHz	16QAM	21350	100RB#0	17.942	19.400	PASS

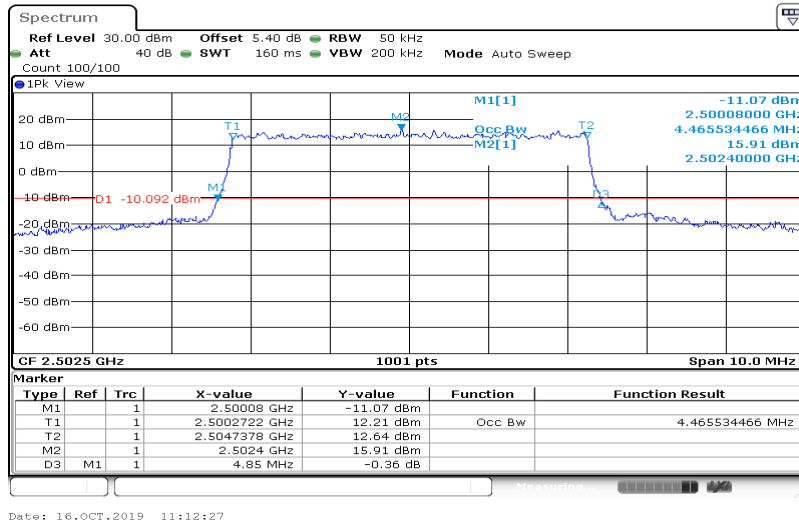


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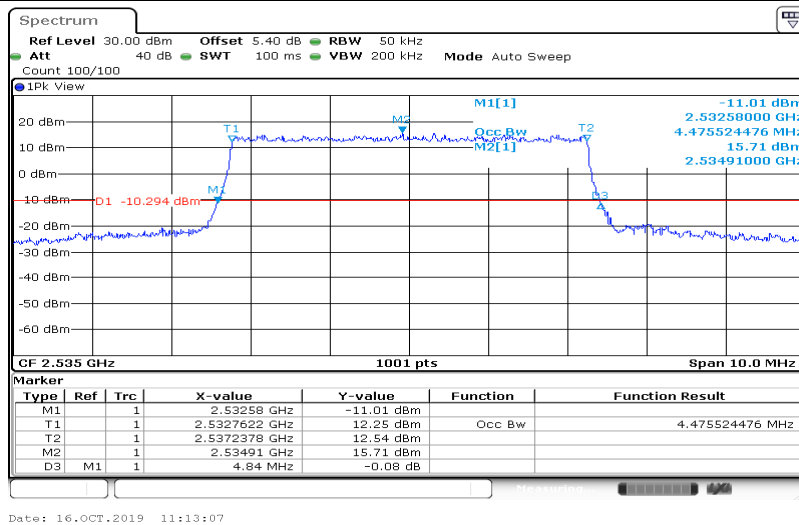
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4.2. Test Plots

Band7-5MHz-QPSK-20775-25RB#0-4.466



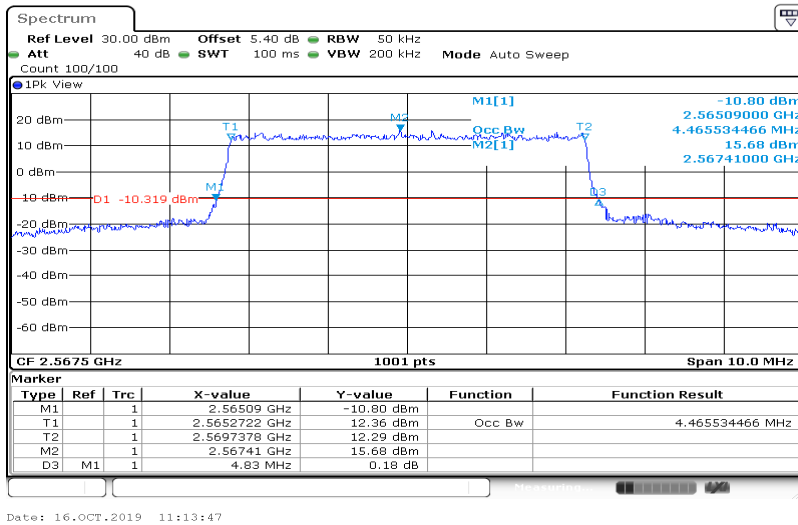
Band7-5MHz-QPSK-21100-25RB#0-4.476



Band7-5MHz-QPSK-21425-25RB#0-4.466

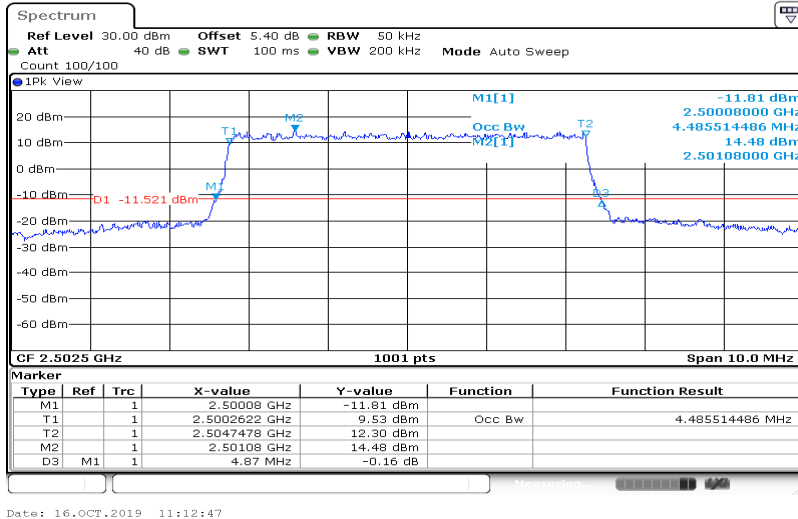


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Date: 16.OCT.2019 11:13:47

Band7-5MHz-16QAM-20775-25RB#0-4.486

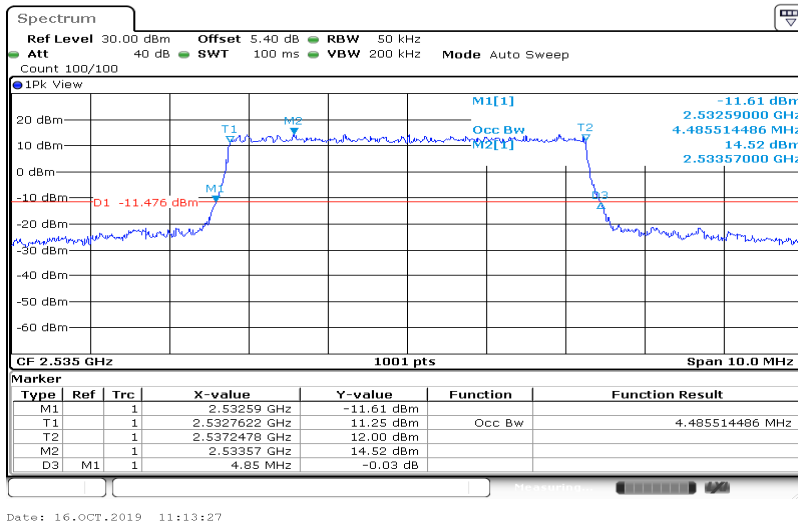


Date: 16.OCT.2019 11:12:47

Band7-5MHz-16QAM-21100-25RB#0-4.486

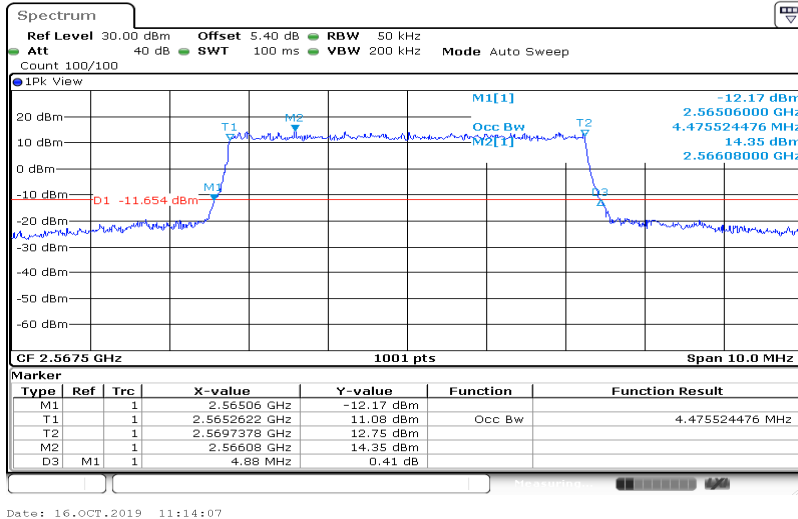


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Date: 16.OCT.2019 11:13:27

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

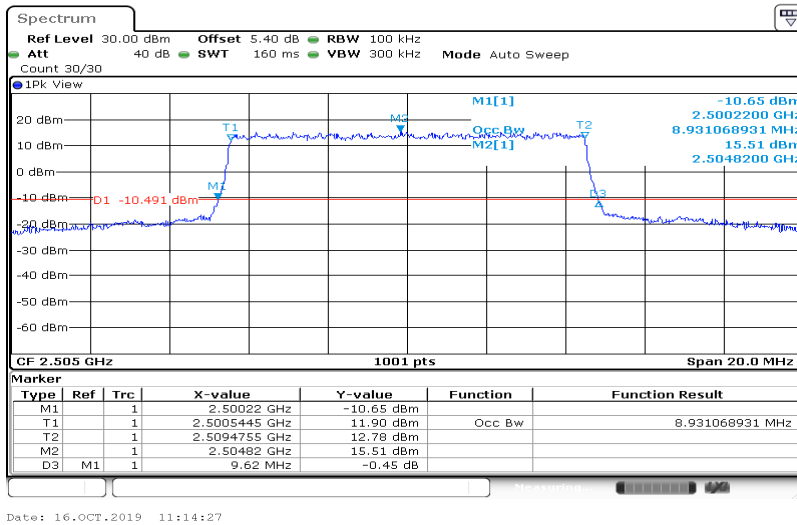


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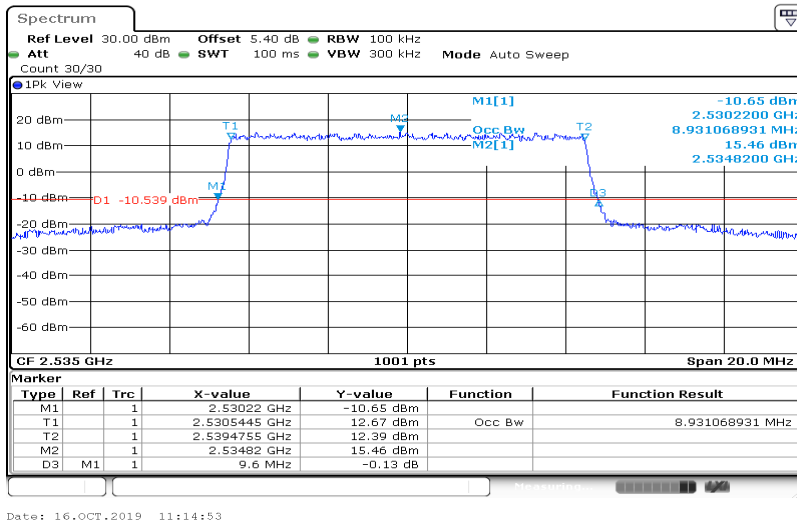
Band7-10MHz-QPSK-20800-50RB#0-8.931



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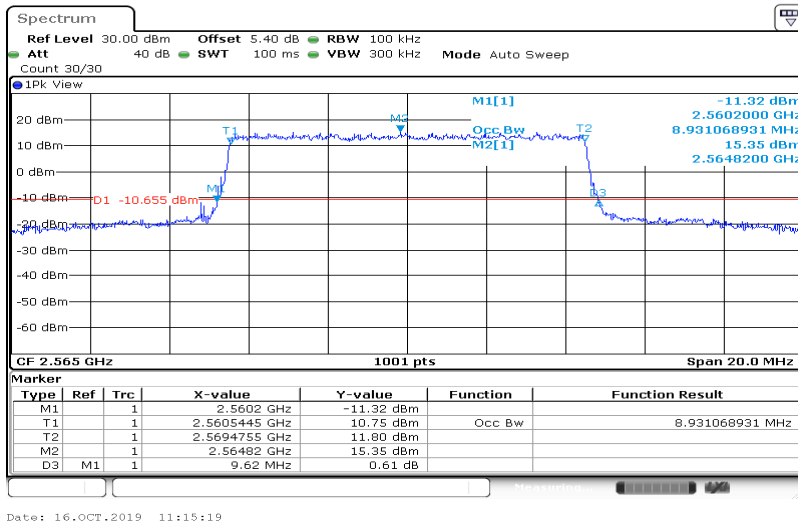
Band7-10MHz-QPSK-21100-50RB#0-8.931



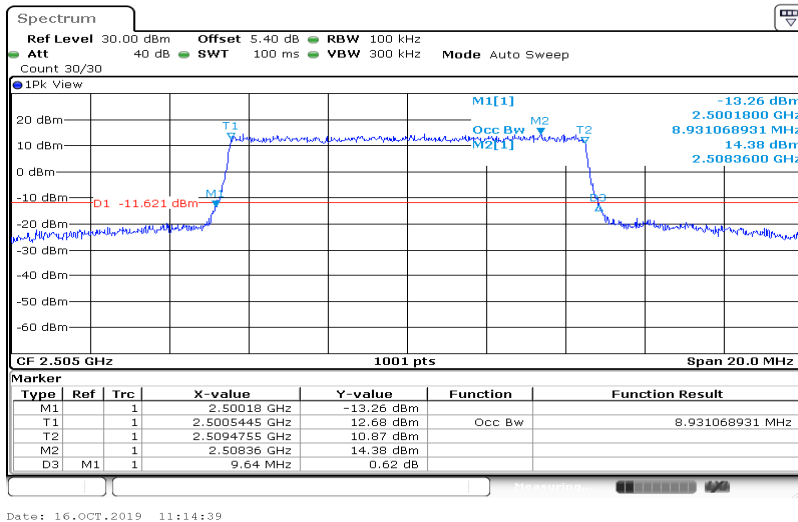
Band7-10MHz-QPSK-21400-50RB#0-8.931



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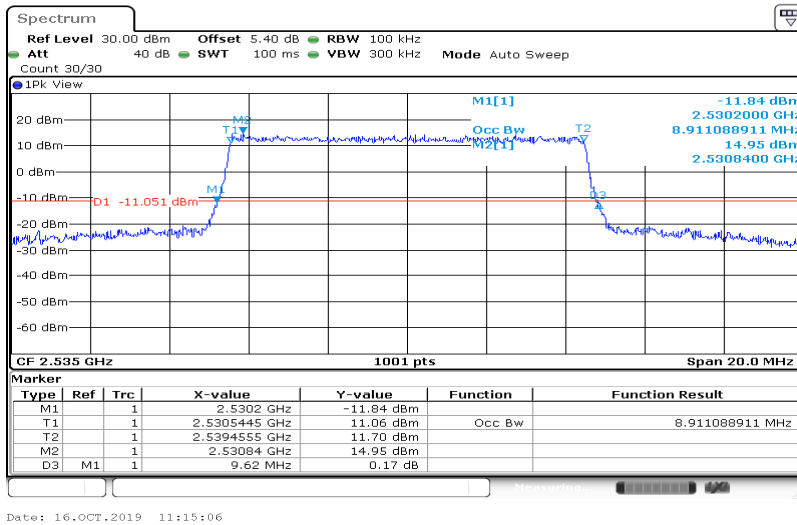
Band7-10MHz-16QAM-20800-50RB#0-8.931



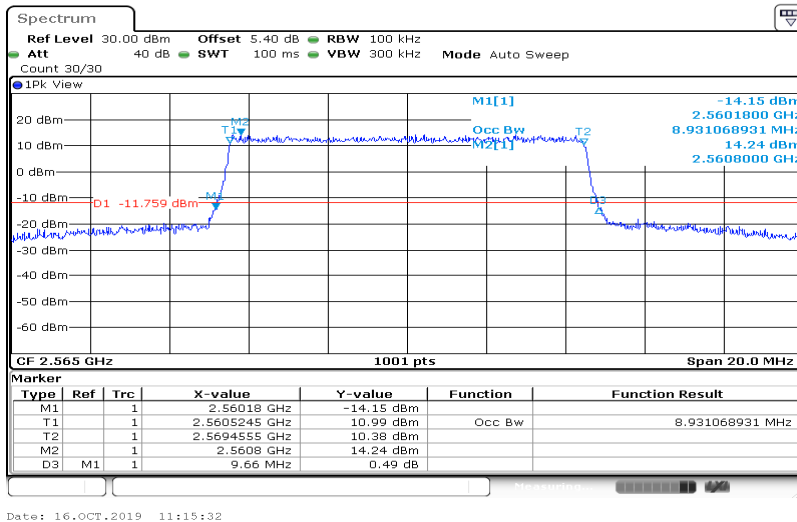
Band7-10MHz-16QAM-21100-50RB#0-8.911



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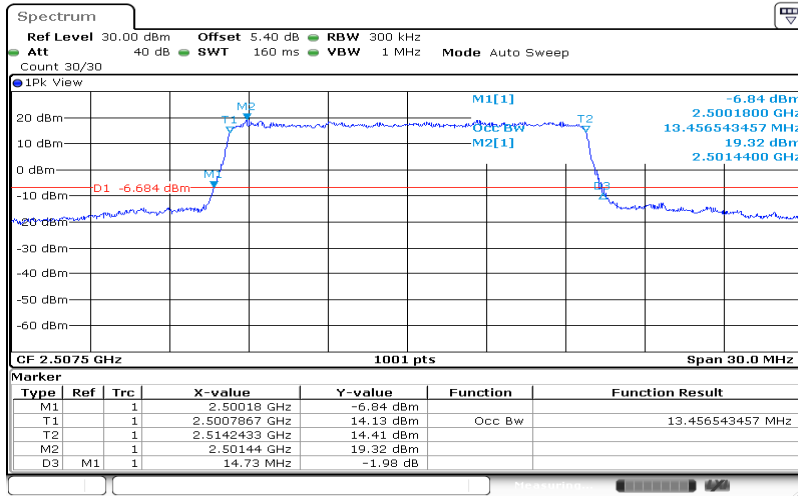
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Band7-15MHz-QPSK-20825-75RB#0-13.457

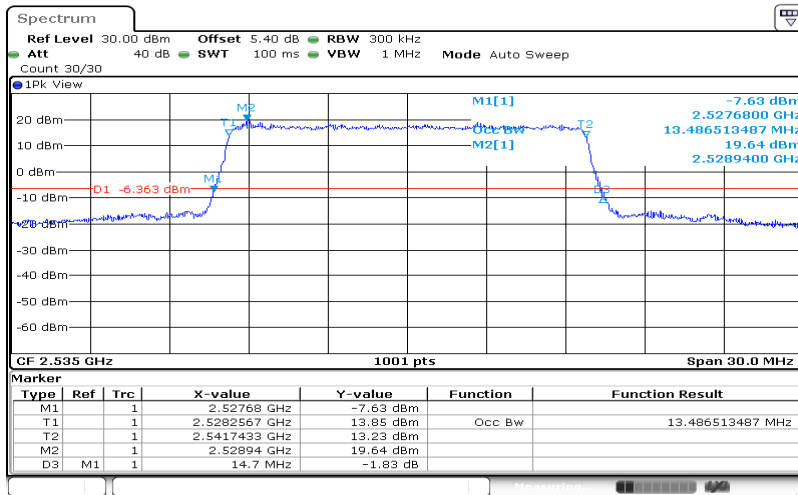


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Date: 16.OCT.2019 11:15:51

Band7-15MHz-QPSK-21100-75RB#0-13.487

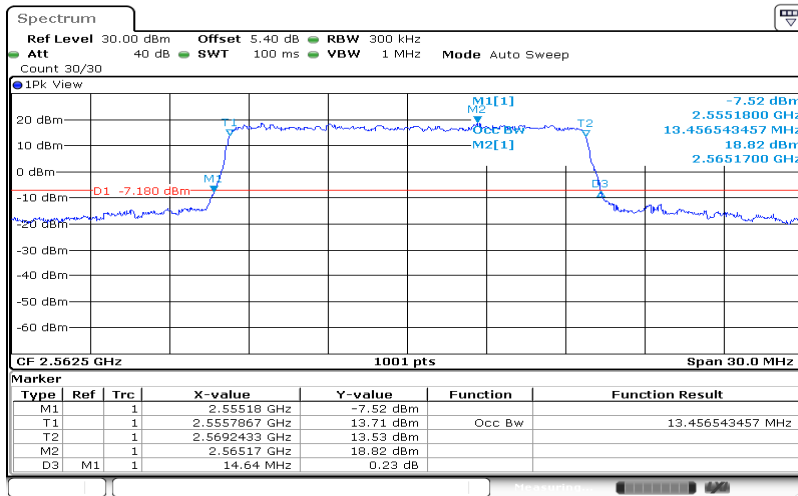


Date: 16.OCT.2019 11:16:17

Band7-15MHz-QPSK-21375-75RB#0-13.457

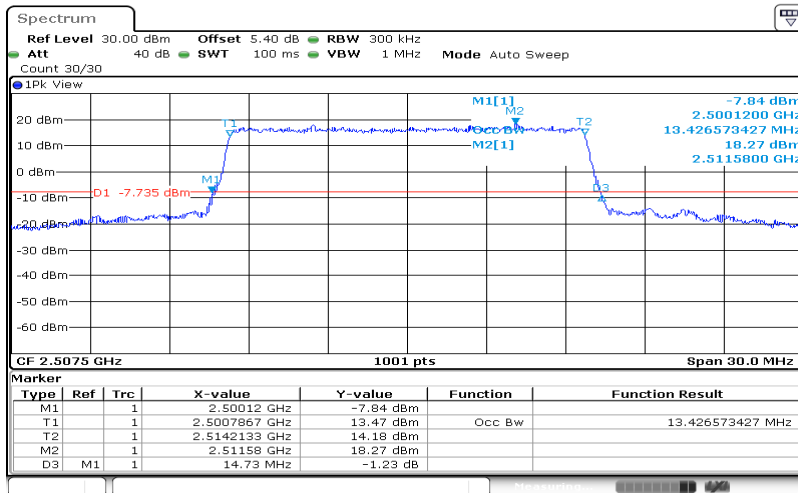


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Date: 16.OCT.2019 11:16:43

Band7-15MHz-16QAM-20825-75RB#0-13.427

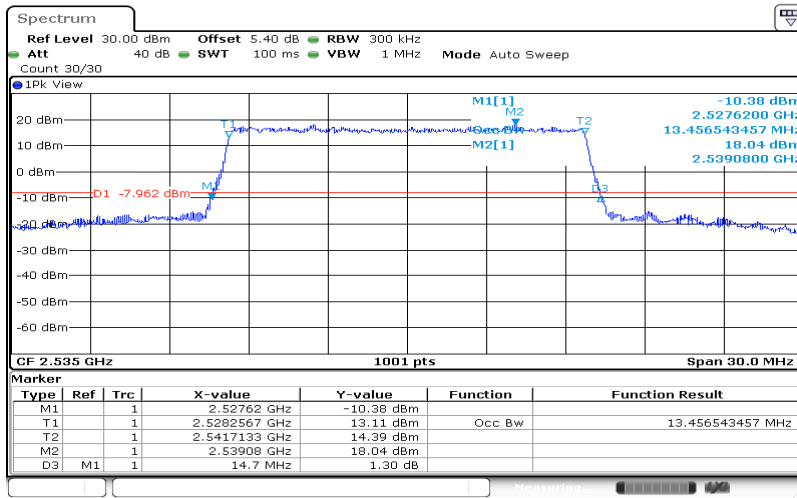


Date: 16.OCT.2019 11:16:04

Band7-15MHz-16QAM-21100-75RB#0-13.457

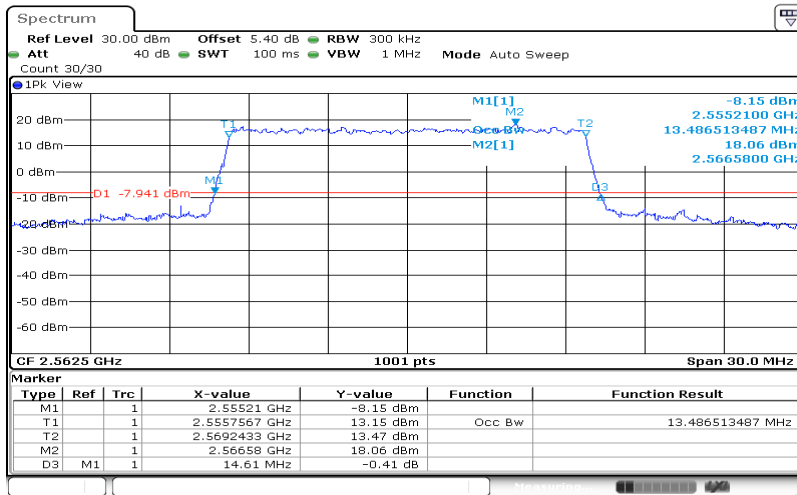


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Date: 16.OCT.2019 11:16:30

Band7-15MHz-16QAM-21375-75RB#0-13.487

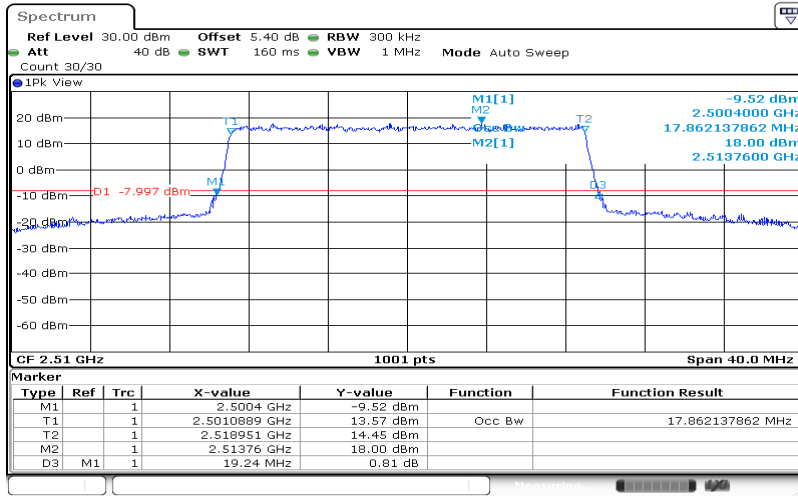


Date: 16.OCT.2019 11:16:56

Band7-20MHz-QPSK-20850-100RB#0-17.862

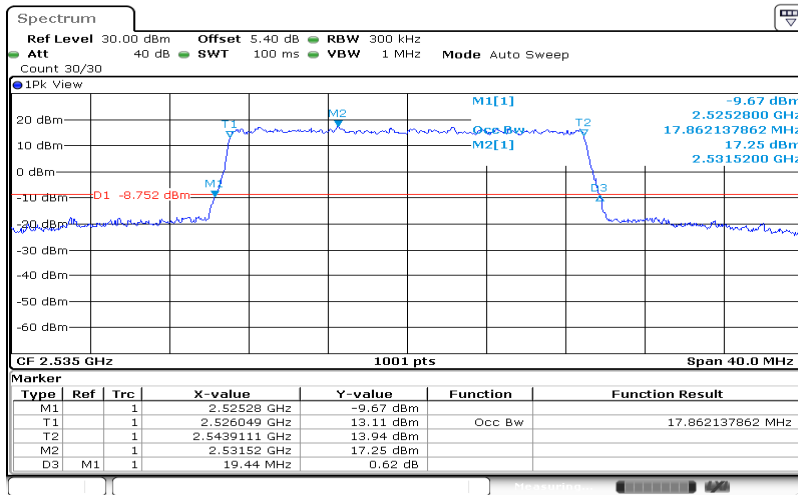


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Date: 16.OCT.2019 11:17:16

Band7-20MHz-QPSK-21100-100RB#0-17.862

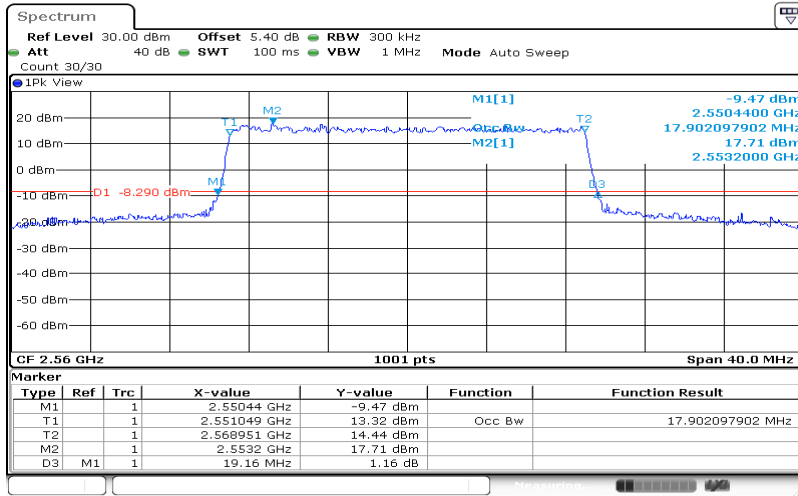


Date: 16.OCT.2019 11:17:42

Band7-20MHz-QPSK-21350-100RB#0-17.902

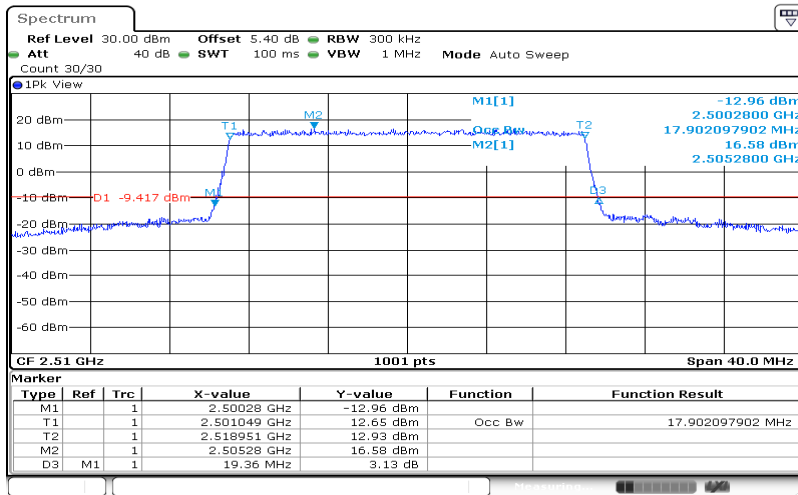


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Date: 16.OCT.2019 11:18:08

Band7-20MHz-16QAM-20850-100RB#0-17.902

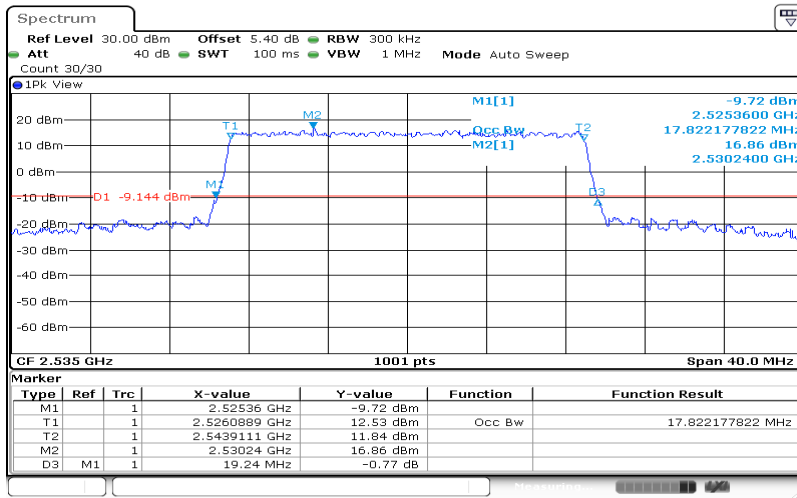


Date: 16.OCT.2019 11:17:29

Band7-20MHz-16QAM-21100-100RB#0-17.822

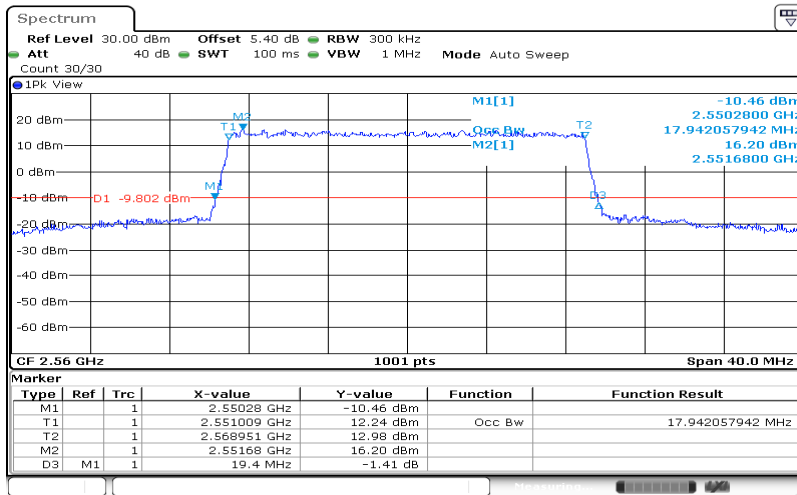


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Date: 16.OCT.2019 11:17:55

Band7-20MHz-16QAM-21350-100RB#0-17.942



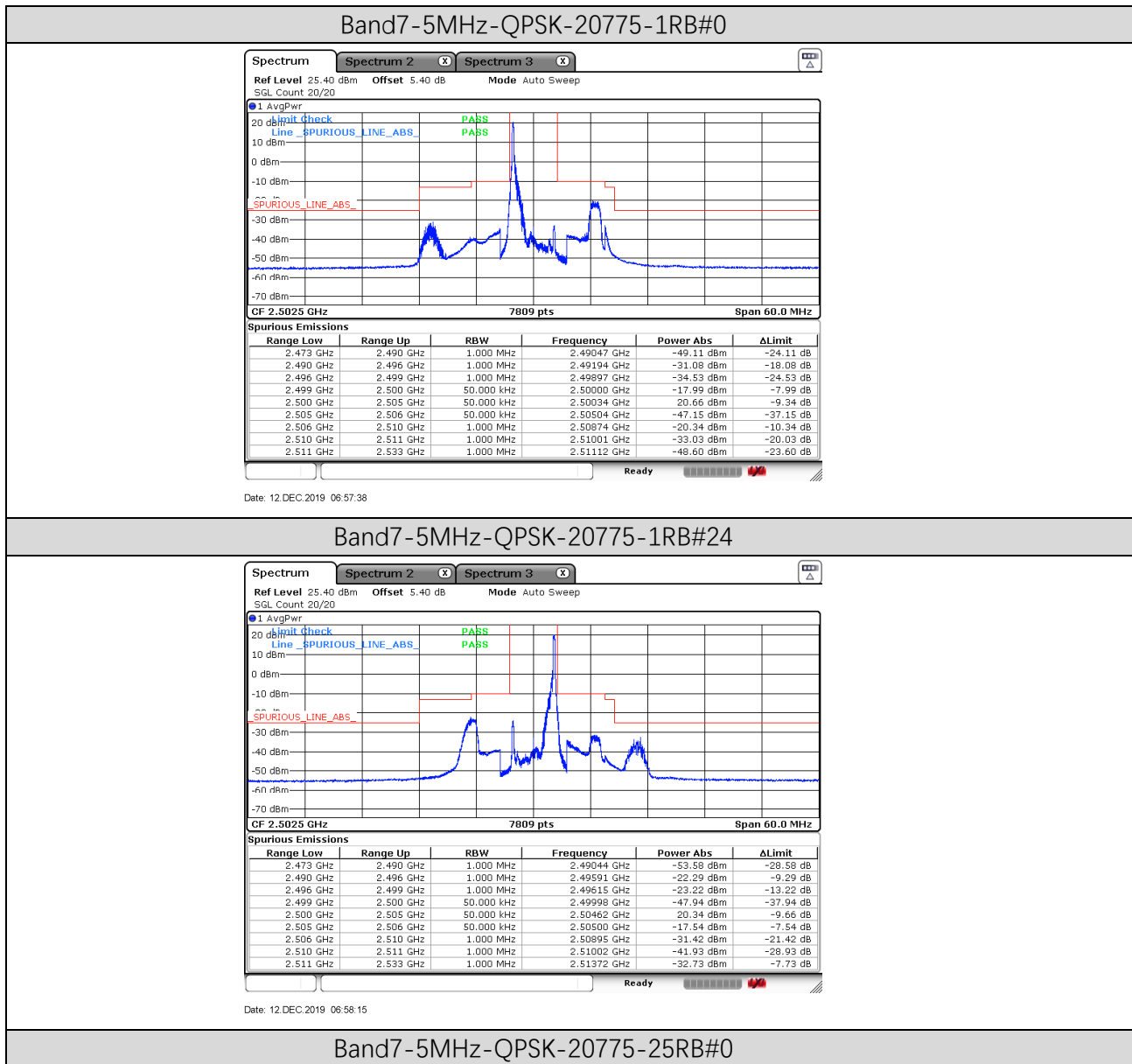
Date: 16.OCT.2019 11:18:21



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5. Emission Mask

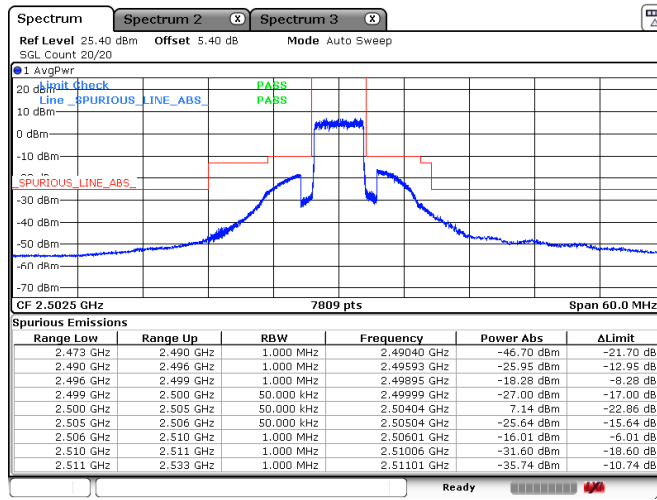
5.1. Test Plots



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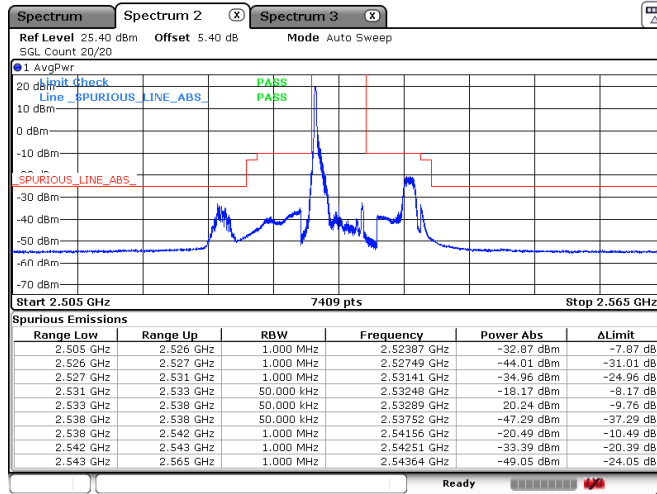
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Date: 12.DEC.2019 06:58:49

Band7-5MHz-QPSK-21100-1RB#0

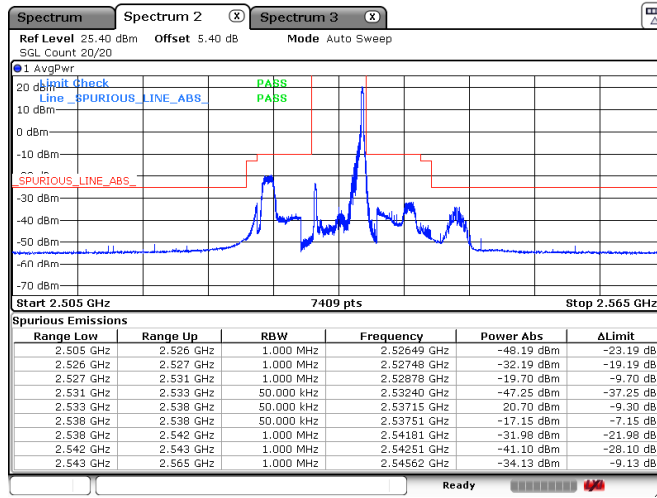


Date: 12.DEC.2019 06:59:36

Band7-5MHz-QPSK-21100-1RB#24

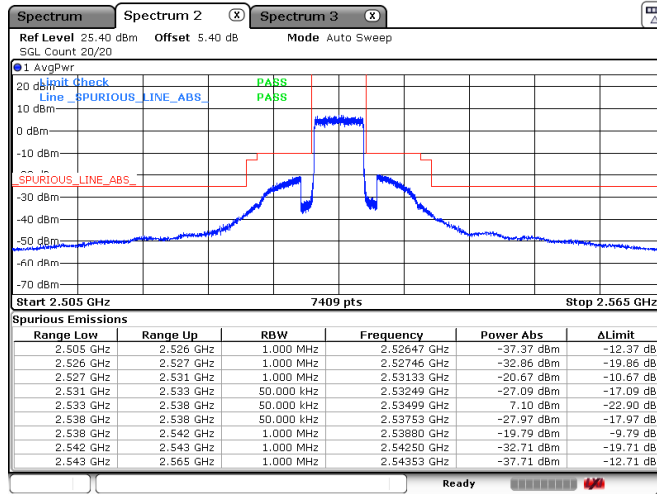


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Date: 12.DEC.2019 07:00:14

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

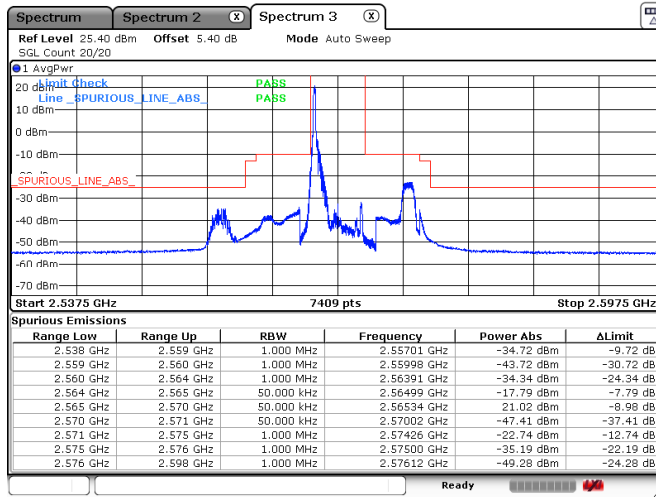


Date: 12.DEC.2019 07:00:44

Band7-5MHz-QPSK-21425-1RB#0

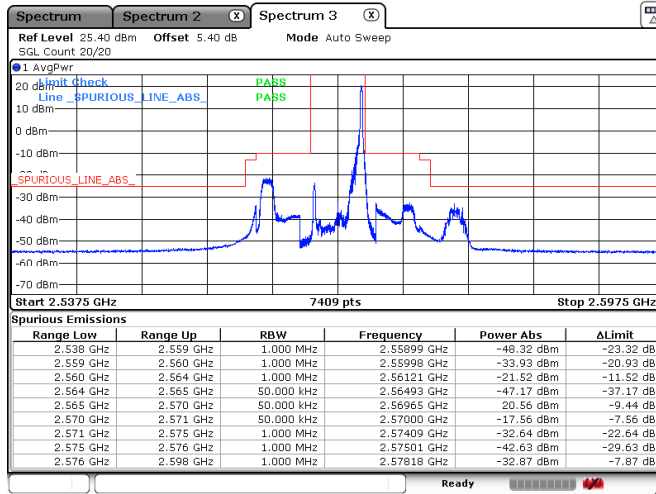


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Date: 12.DEC.2019 07:01:14

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

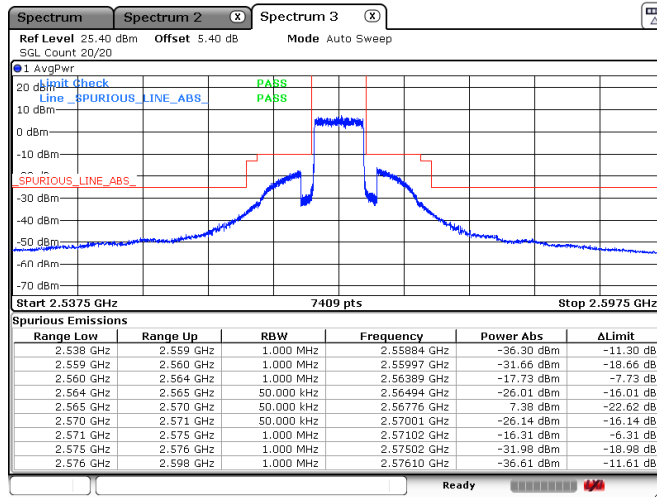


Date: 12.DEC.2019 07:01:44

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

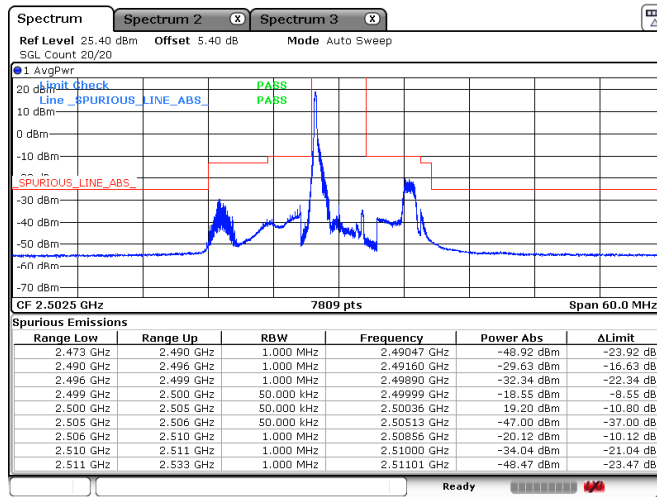


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Date: 12.DEC.2019 07:02:10

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

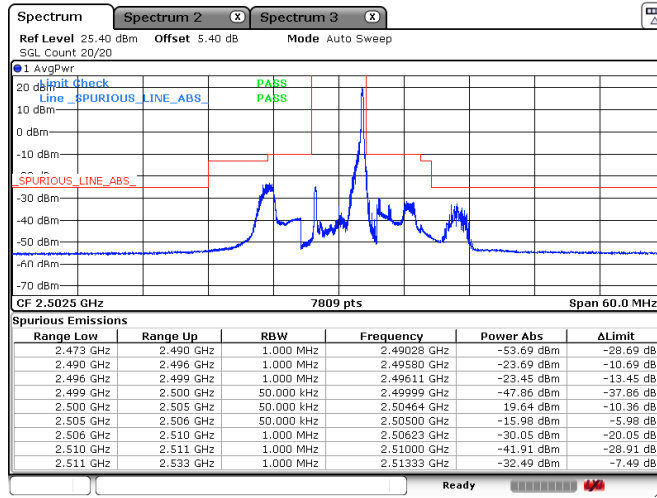


Date: 12.DEC.2019 06:57:54

Band7-5MHz-16QAM-20775-1RB#24

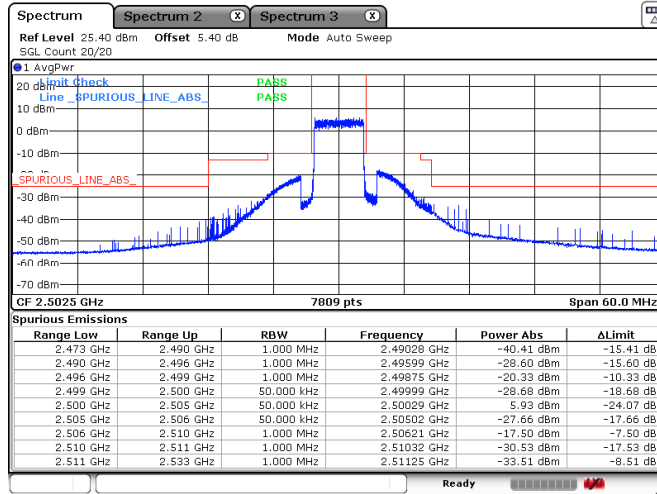


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Date: 12.DEC.2019 06:58:29

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



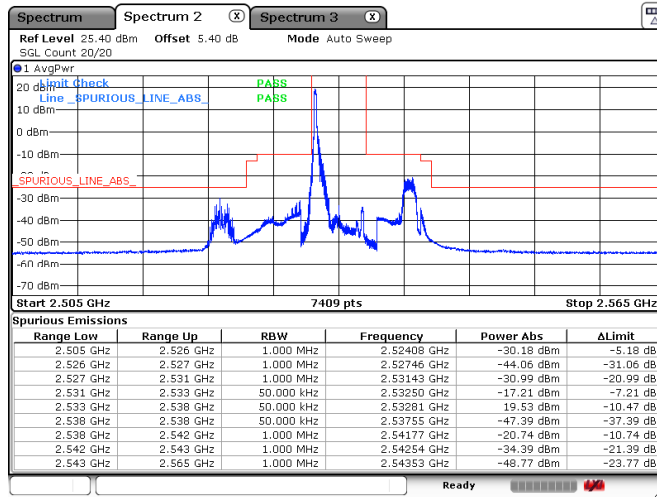
Date: 12.DEC.2019 06:59:00

Band7-5MHz-16QAM-21100-1RB#0



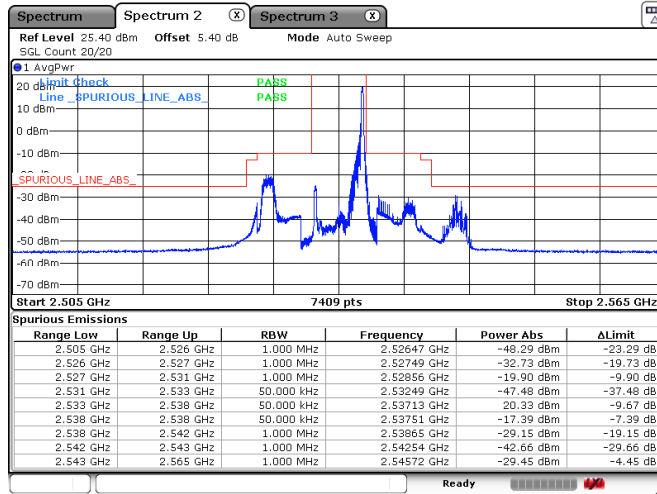
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Band7-5MHz-16QAM-21100-1RB#24

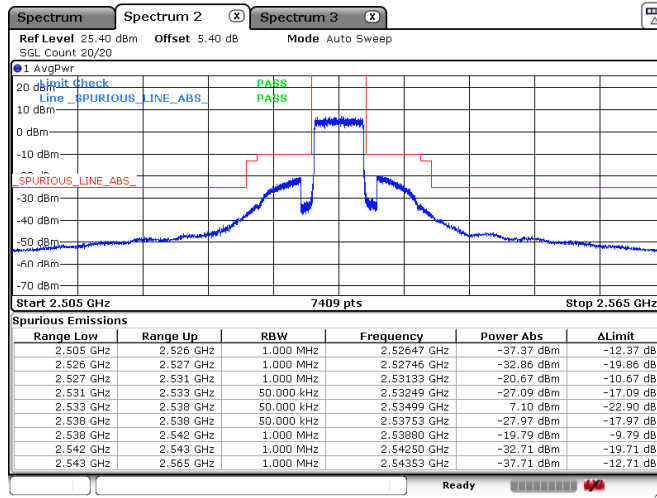


Date: 12.DEC.2019 07:00:27

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

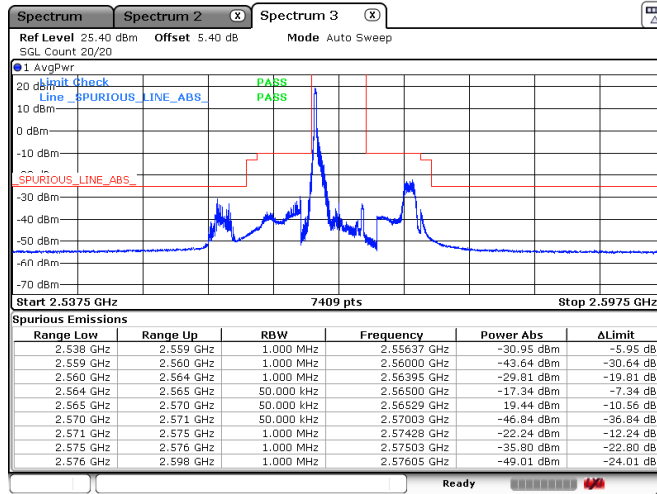


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Date: 12.DEC.2019 07:00:44

Band7-5MHz-16QAM-21425-1RB#0

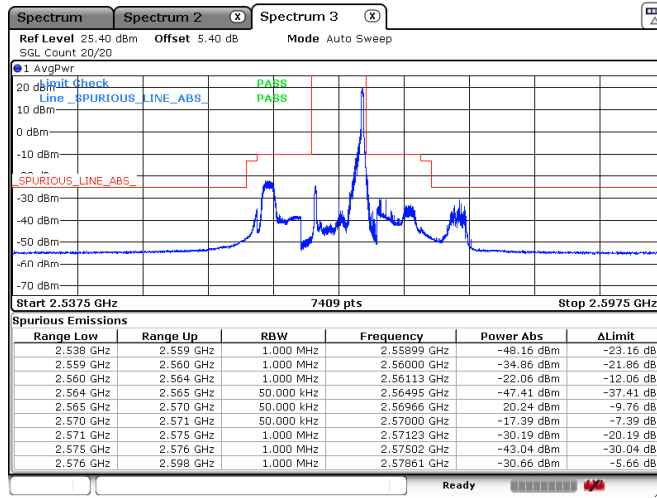


Date: 12.DEC.2019 07:01:30

Band7-5MHz-16QAM-21425-1RB#24

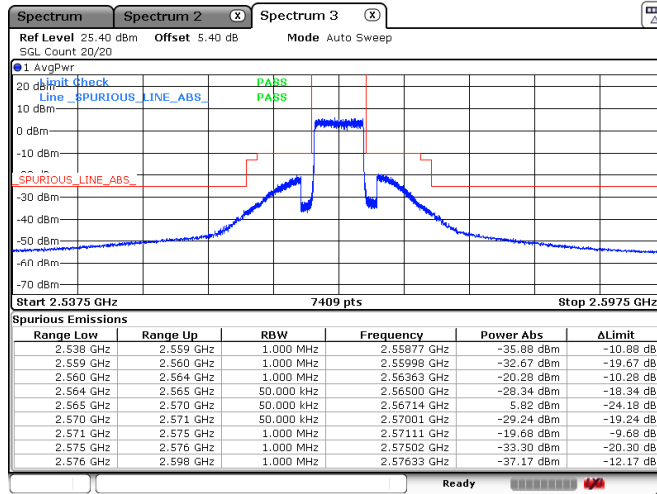


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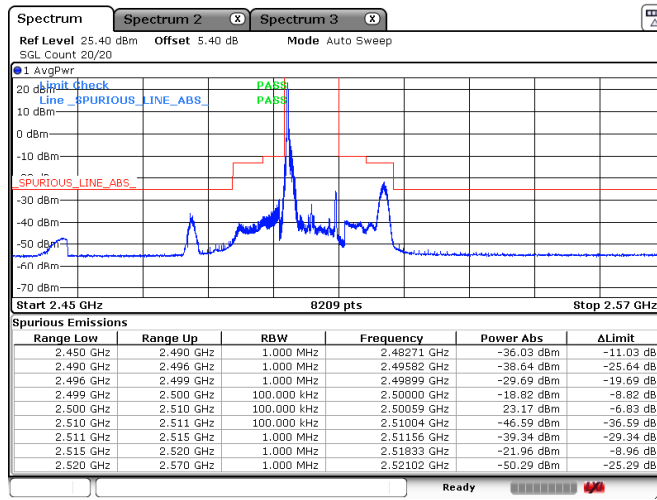


Date: 12.DEC.2019 07:02:22

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

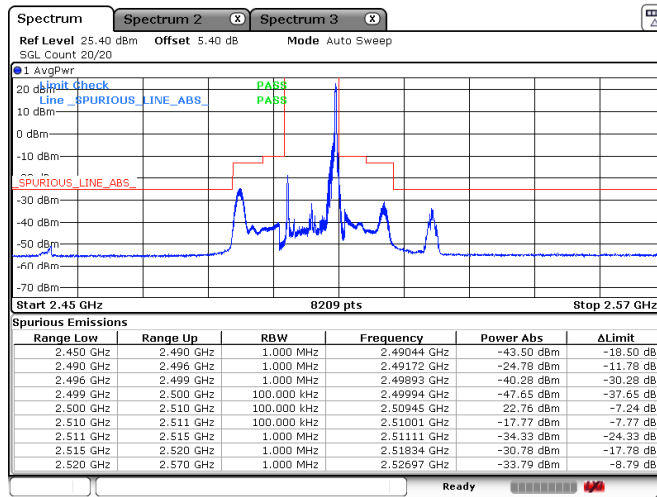


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Date: 12.DEC.2019 07:07:11

Band7-10MHz-QPSK-20800-1RB#49

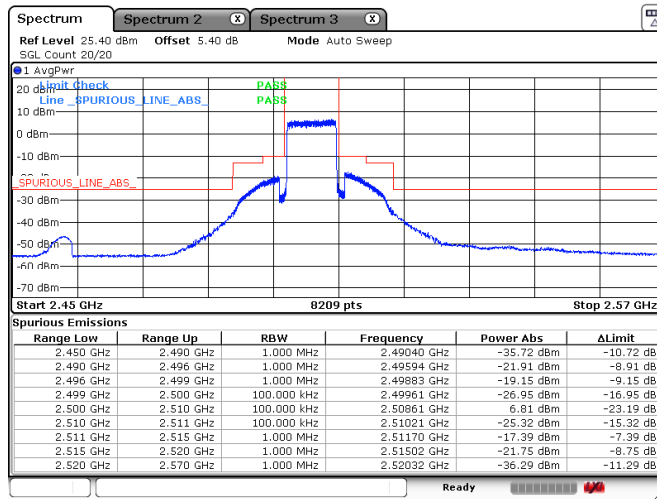


Date: 12.DEC.2019 07:09:20

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

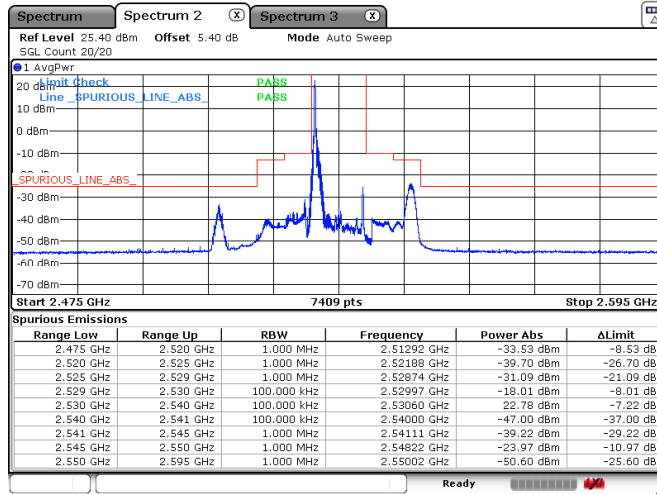


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Date: 12.DEC.2019 07:09:55

Band7-10MHz-QPSK-21100-1RB#0

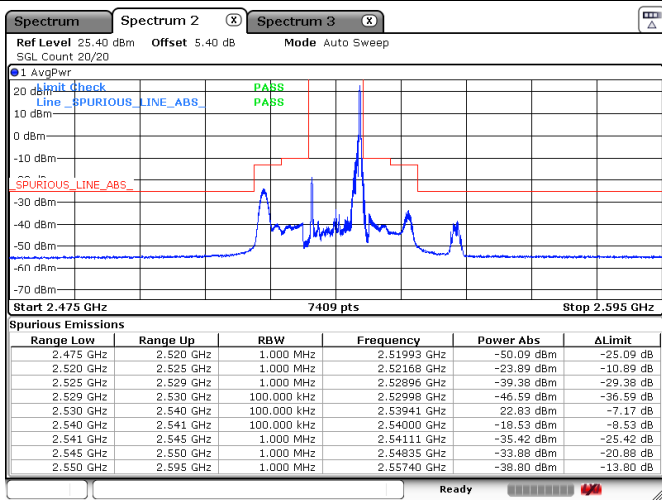


Date: 12.DEC.2019 07:10:38

Band7-10MHz-QPSK-21100-1RB#49

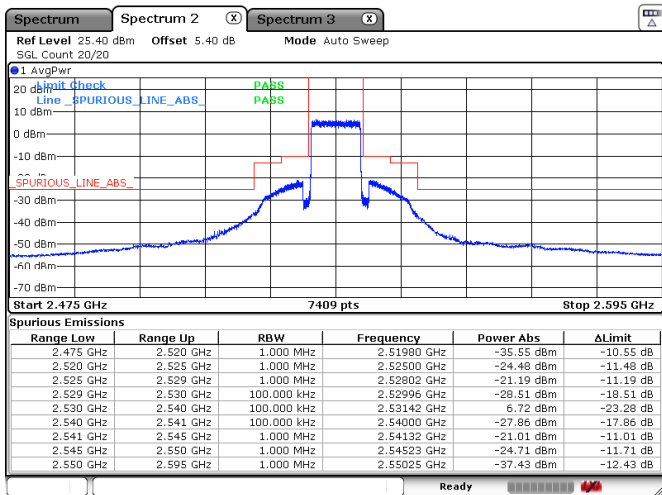


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Date: 12.DEC.2019 07:11:13

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

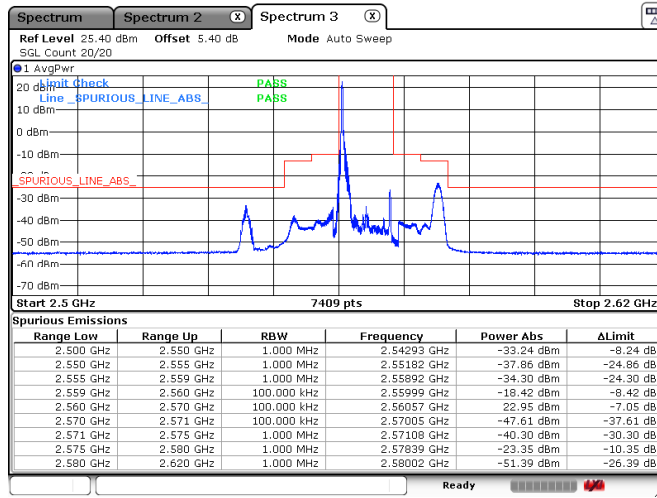


Date: 12.DEC.2019 07:11:45

Band7-10MHz-QPSK-21400-1RB#0

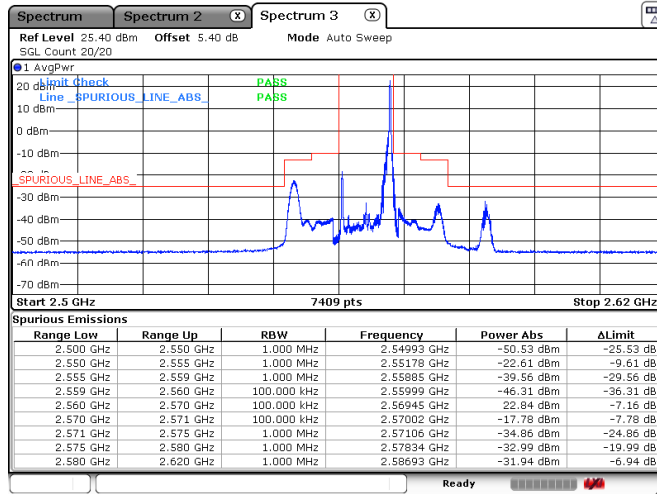


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Date: 12.DEC.2019 07:12:36

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

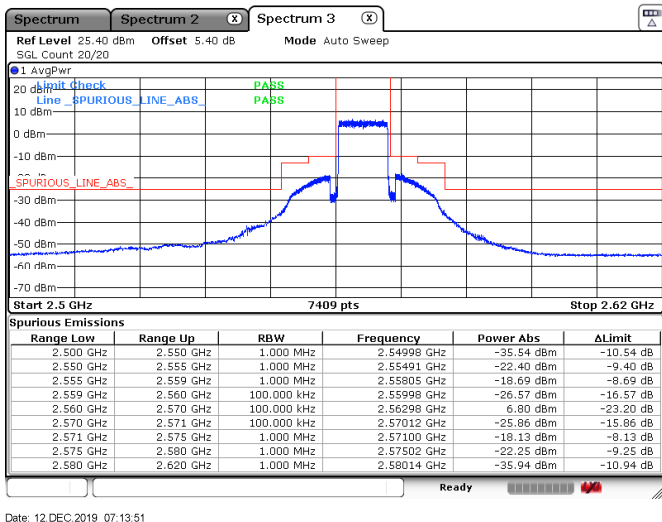


Date: 12.DEC.2019 07:13:22

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

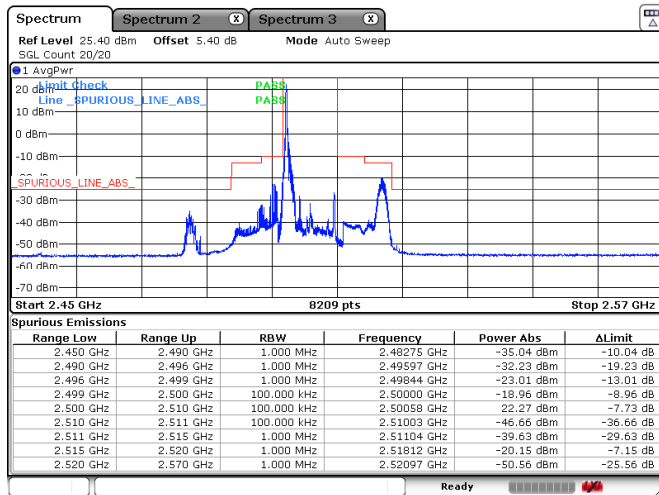


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Date: 12.DEC.2019 07:13:51

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

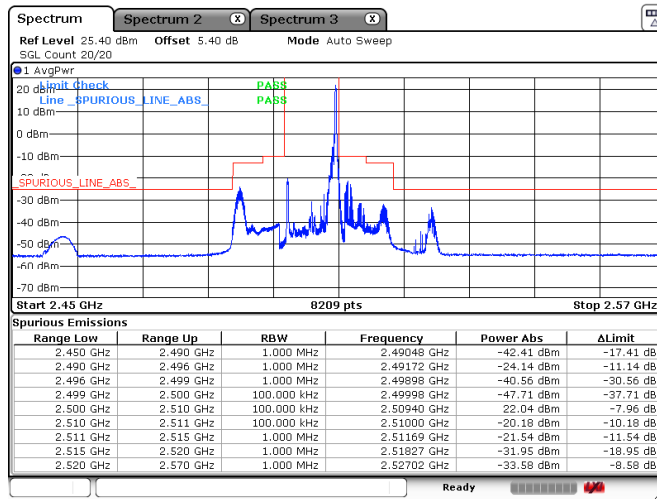


Date: 12.DEC.2019 07:07:35

Band7-10MHz-16QAM-20800-1RB#49

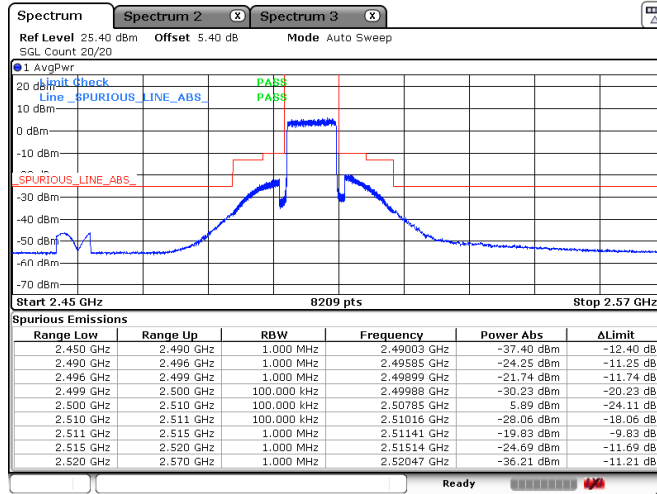


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Date: 12.DEC.2019 07:09:37

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

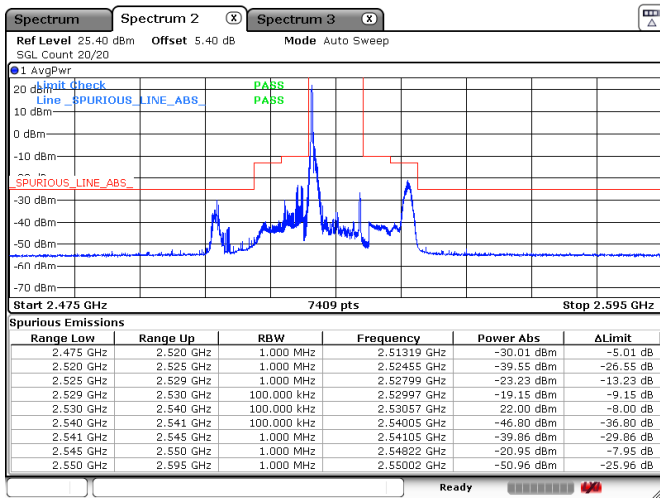


Date: 12.DEC.2019 07:10:06

Band7-10MHz-16QAM-21100-1RB#0

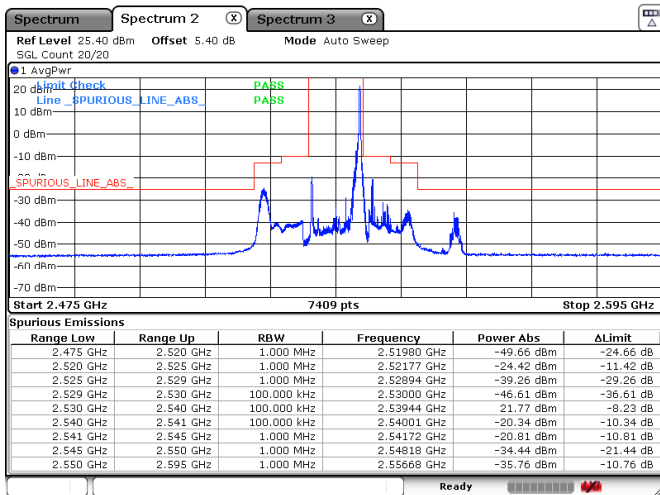


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Date: 12.DEC.2019 07:10:52

Band7-10MHz-16QAM-21100-1RB#49

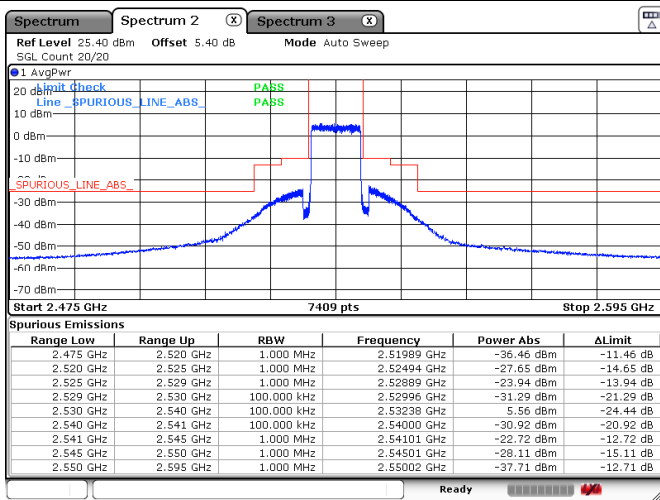


Date: 12.DEC.2019 07:11:26

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

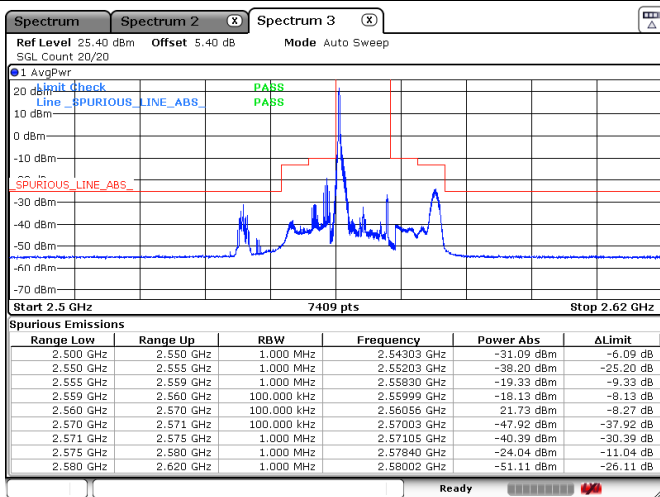


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Date: 12.DEC.2019 07:11:58

Band7-10MHz-16QAM-21400-1RB#0

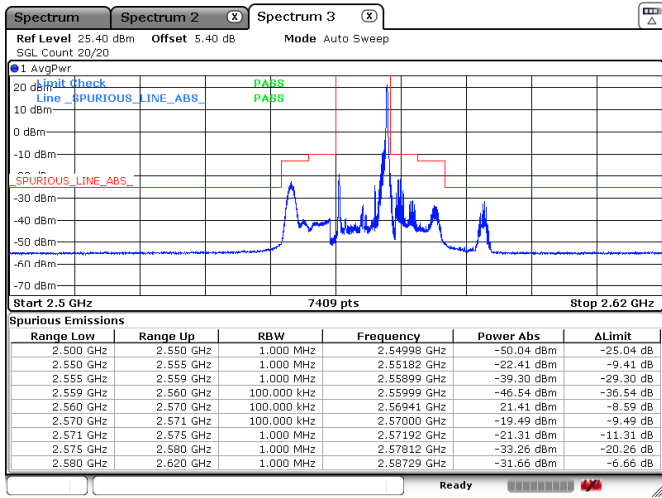


Date: 12.DEC.2019 07:13:03

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

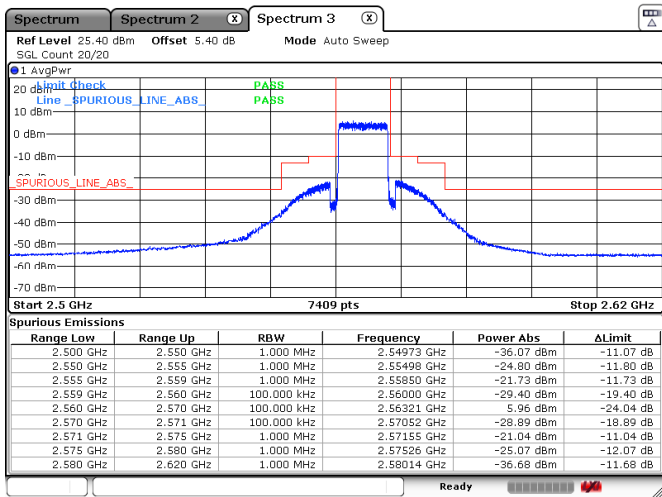


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Date: 12.DEC.2019 07:13:34

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



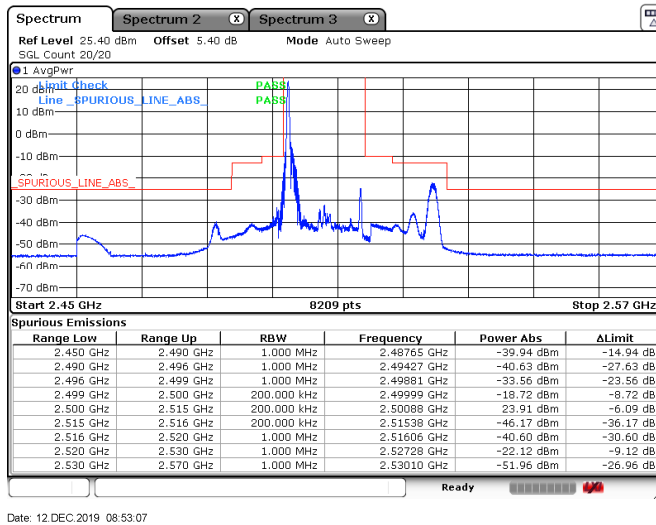
Date: 12.DEC.2019 07:14:02

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



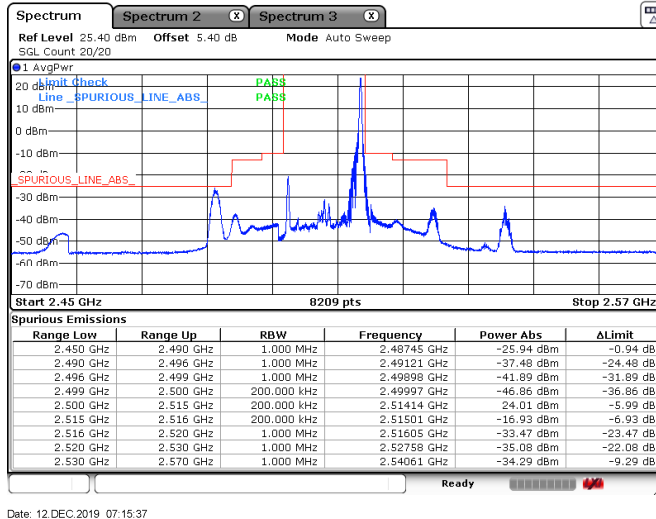
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Date: 12.DEC.2019 08:53:07

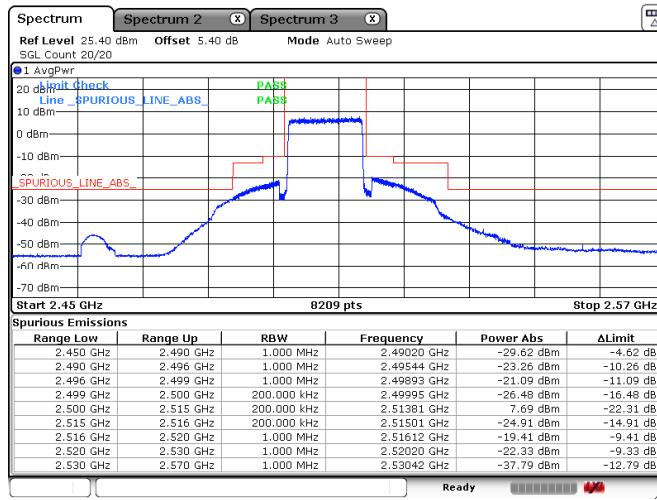
Band7-15MHz-QPSK-20825-1RB#74



Date: 12.DEC.2019 07:15:37

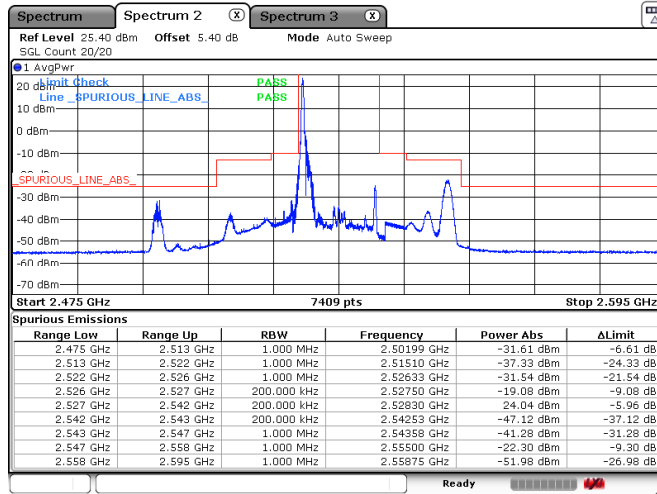
Band7-15MHz-QPSK-20825-75RB#0





Date: 12.DEC.2019 07:16:17

Band7-15MHz-QPSK-21100-1RB#0

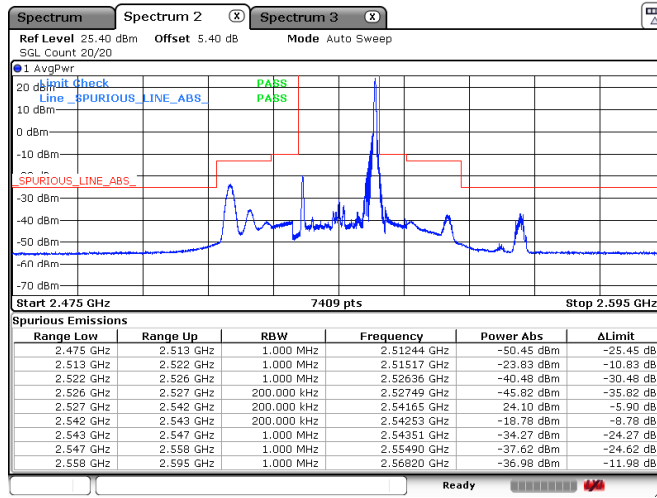


Date: 12.DEC.2019 07:16:54

Band7-15MHz-QPSK-21100-1RB#74

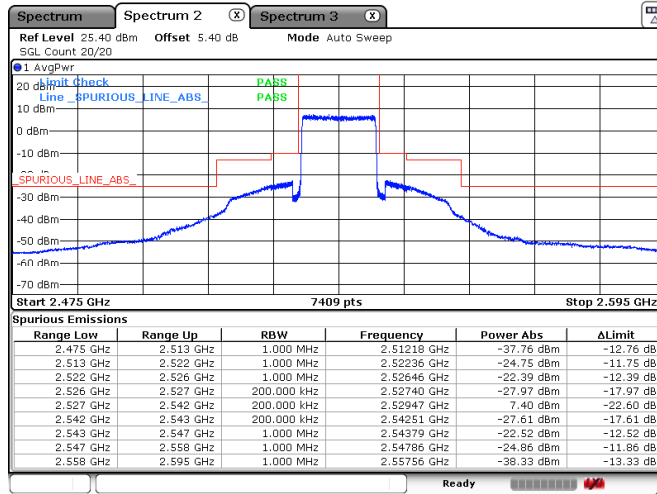


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Date: 12.DEC.2019 07:17:25

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

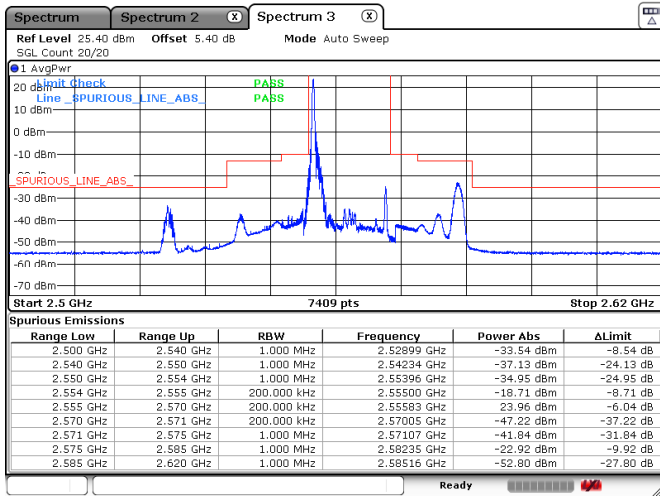


Date: 12.DEC.2019 07:17:54

Band7-15MHz-QPSK-21375-1RB#0

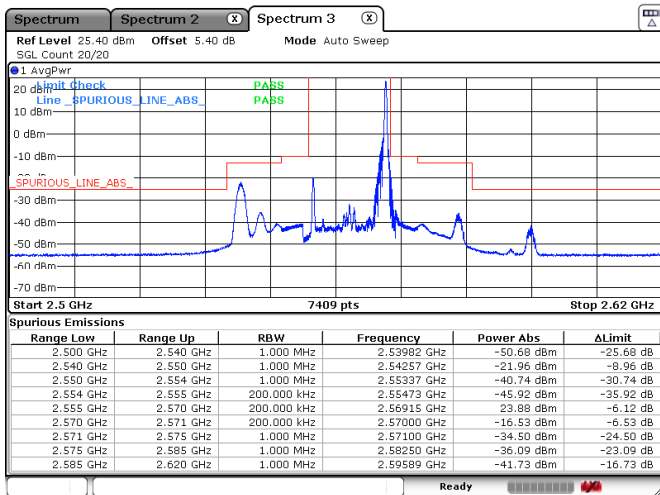


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Date: 12.DEC.2019 07:19:12

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

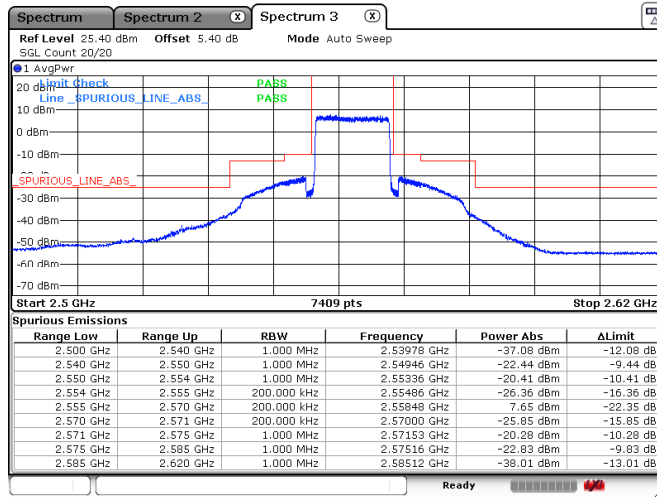


Date: 12.DEC.2019 07:19:42

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

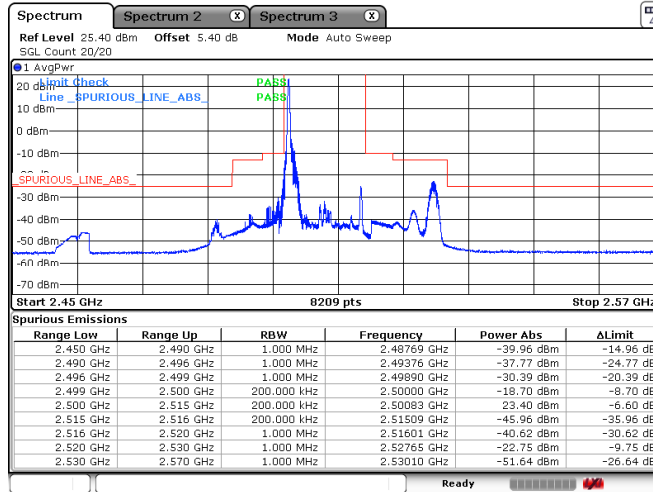


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Date: 12.DEC.2019 07:20:16

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

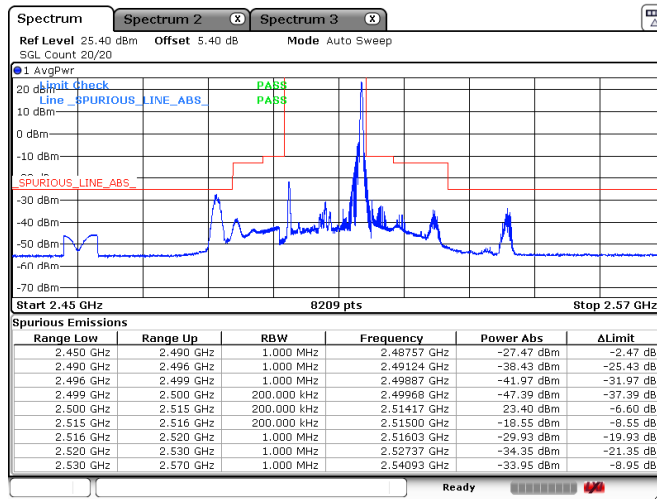


Date: 12.DEC.2019 08:53:25

Band7-15MHz-16QAM-20825-1RB#74

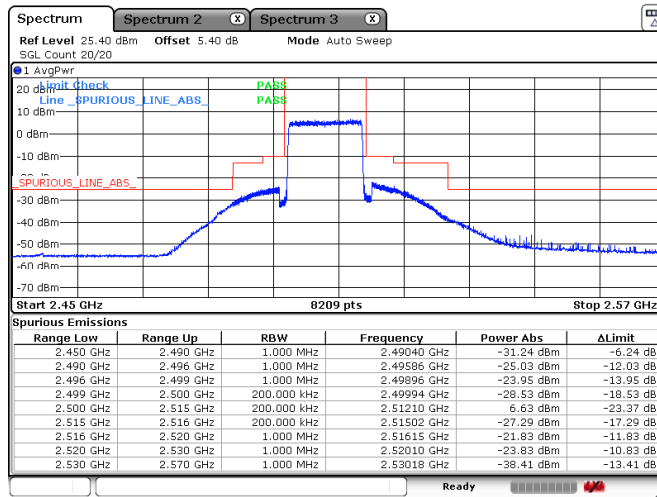


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Date: 12.DEC.2019 07:16:03

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

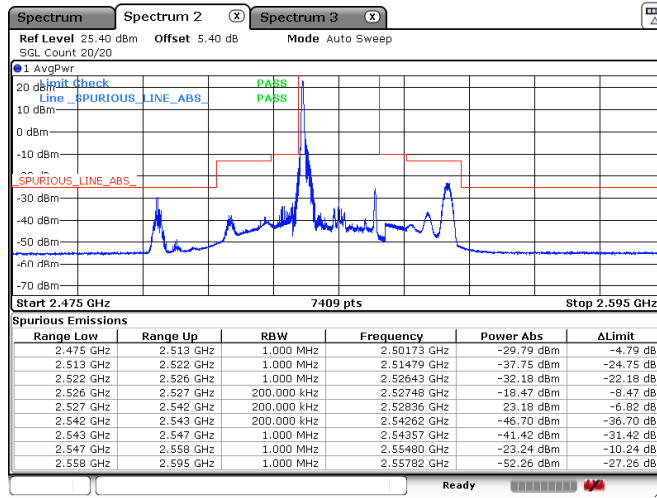


Date: 12.DEC.2019 07:16:27

Band7-15MHz-16QAM-21100-1RB#0

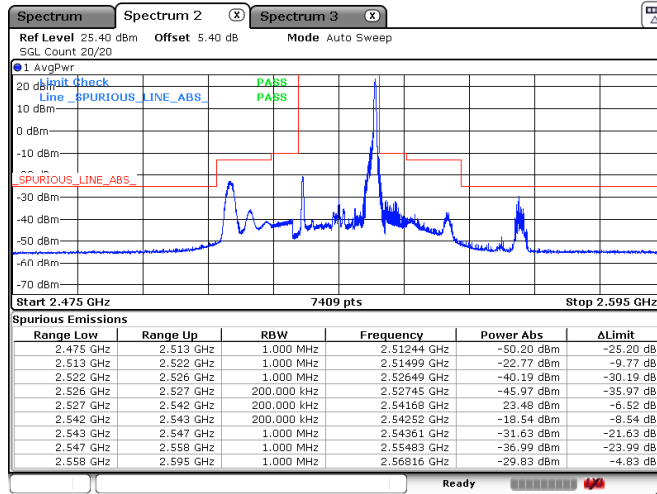


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Date: 12.DEC.2019 07:17:09

Band7-15MHz-16QAM-21100-1RB#74

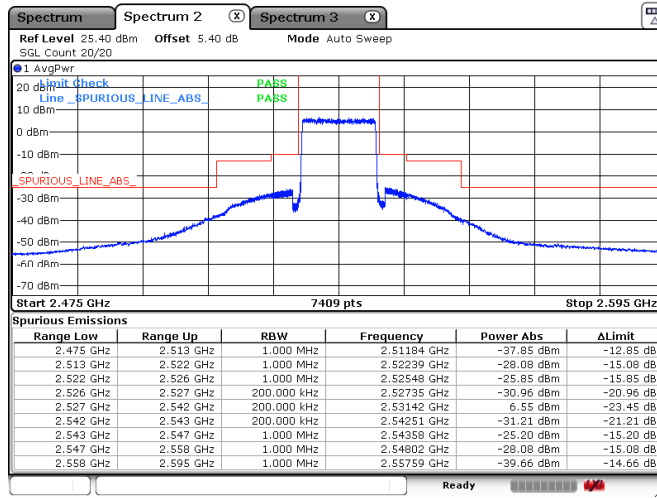


Date: 12.DEC.2019 07:17:37

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

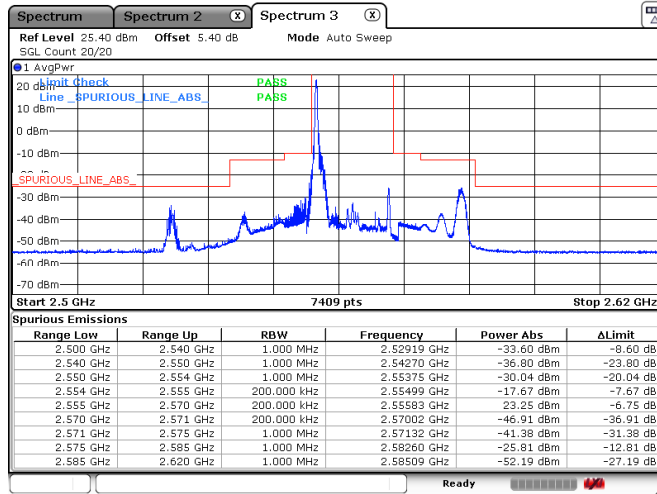


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Date: 12.DEC.2019 07:18:06

Band7-15MHz-16QAM-21375-1RB#0

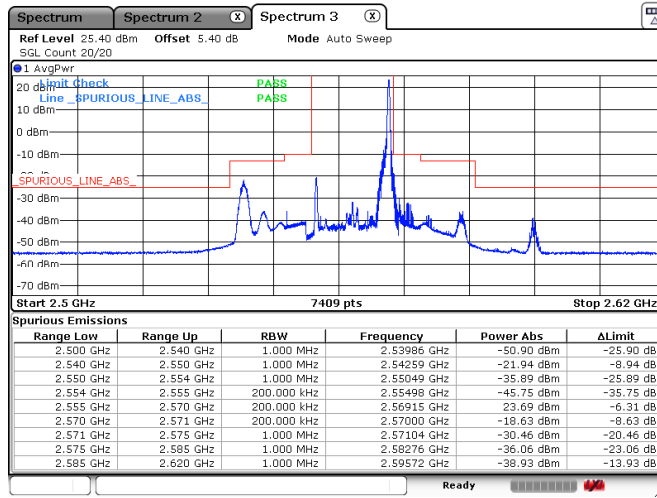


Date: 12.DEC.2019 07:19:26

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

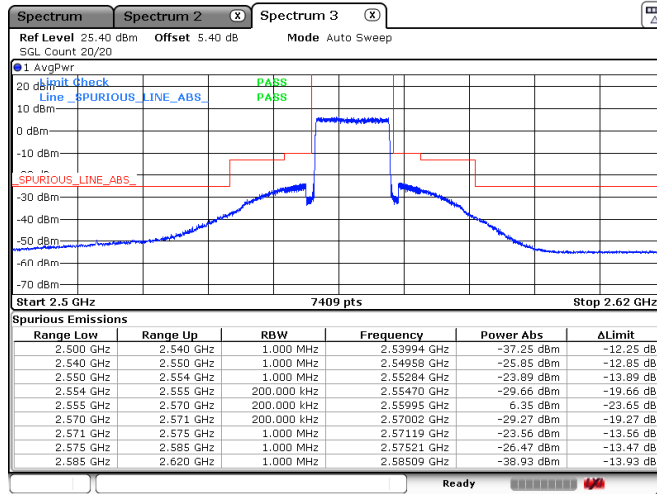


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Date: 12.DEC.2019 07:19:54

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

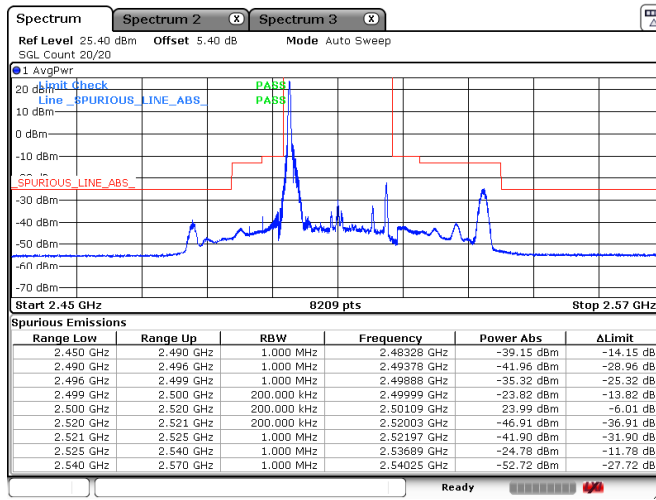


Date: 12.DEC.2019 07:20:36

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

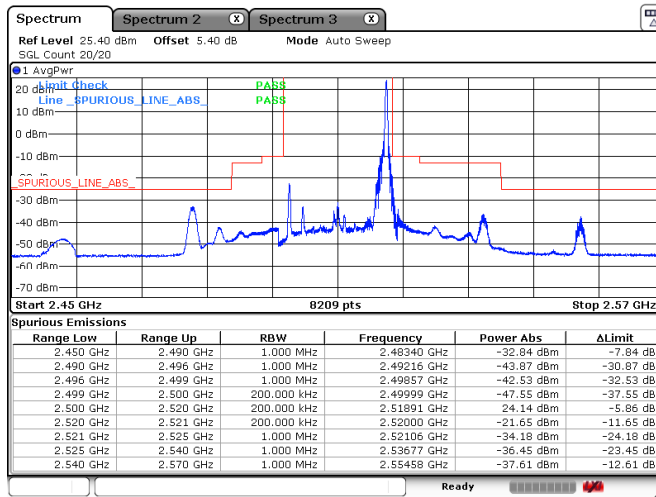


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Date: 12.DEC.2019 07:21:41

Band7-20MHz-QPSK-20850-1RB#99

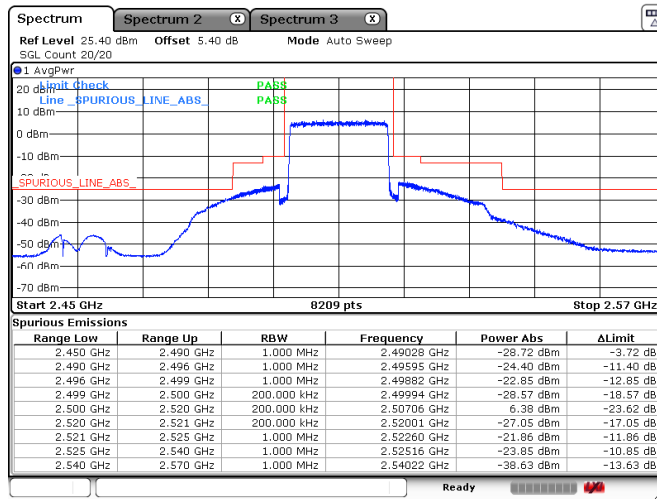


Date: 12.DEC.2019 07:22:18

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

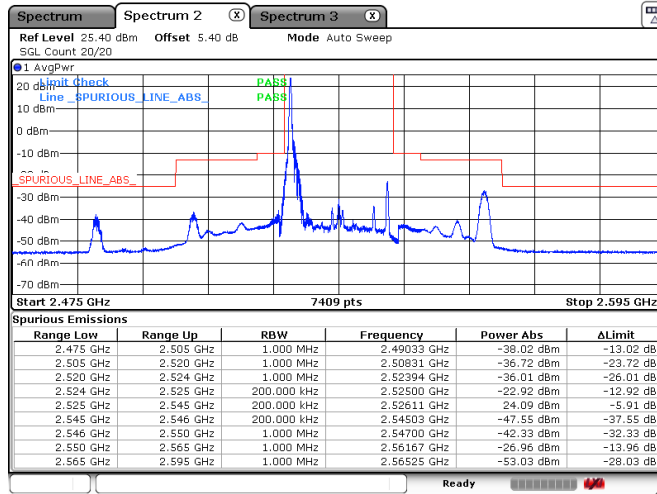


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Date: 12.DEC.2019 07:22:45

Band7-20MHz-QPSK-21100-1RB#0



Date: 12.DEC.2019 07:23:29

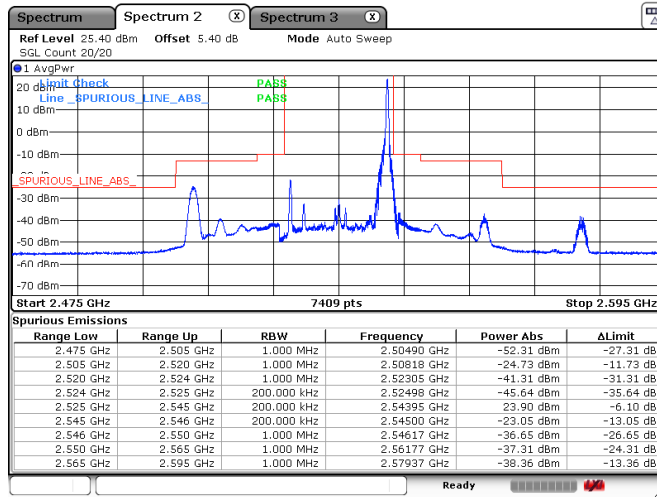
Band7-20MHz-QPSK-21100-1RB#99



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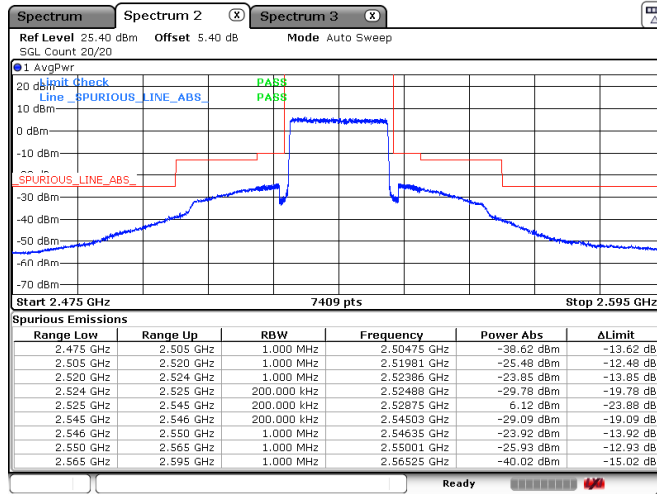
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Date: 12.DEC.2019 07:24:07

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

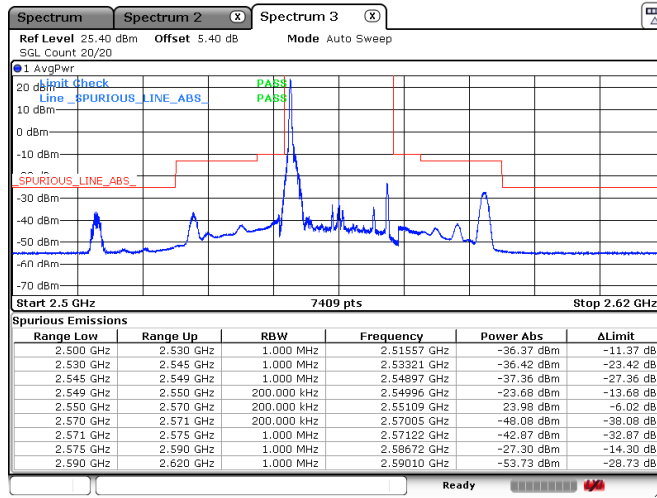


Date: 12.DEC.2019 07:24:35

Band7-20MHz-QPSK-21350-1RB#0

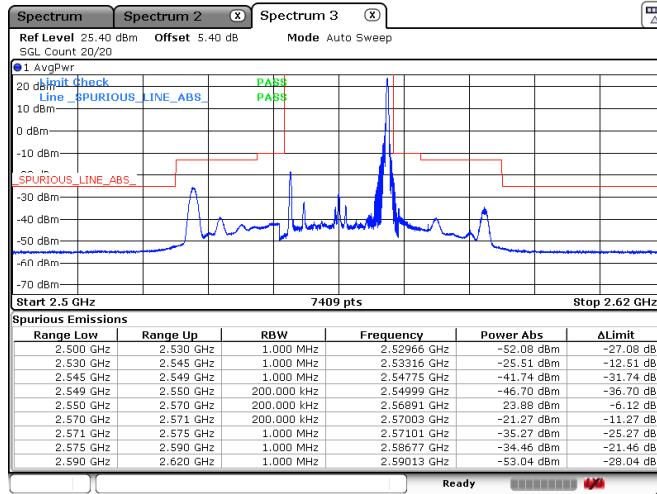


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Date: 12.DEC.2019 07:26:18

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



Date: 12.DEC.2019 07:26:50

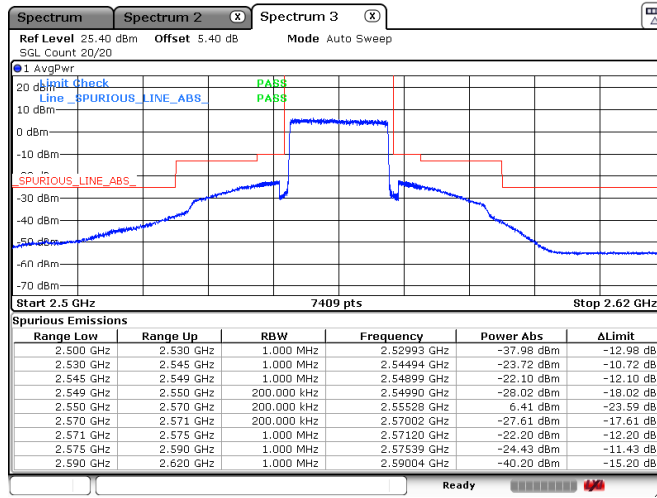
Band7-20MHz-QPSK-21350-100RB#0



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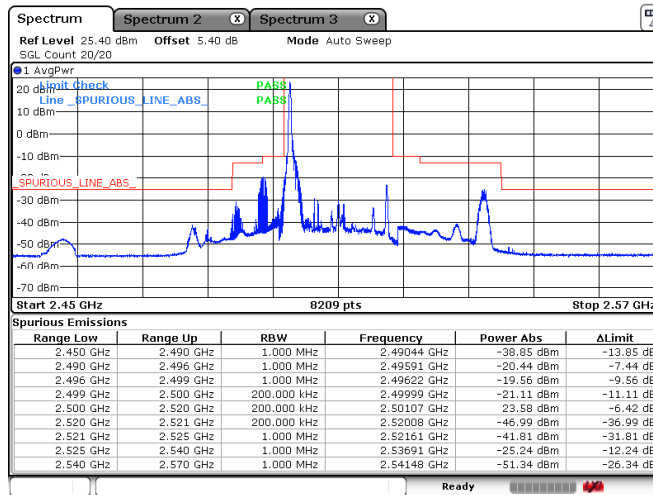
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Date: 12.DEC.2019 07:27:23

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

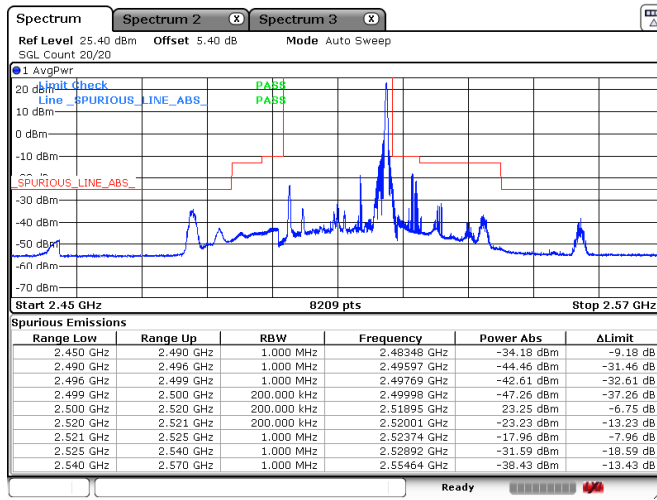


Date: 12.DEC.2019 07:22:04

Band7-20MHz-16QAM-20850-1RB#99

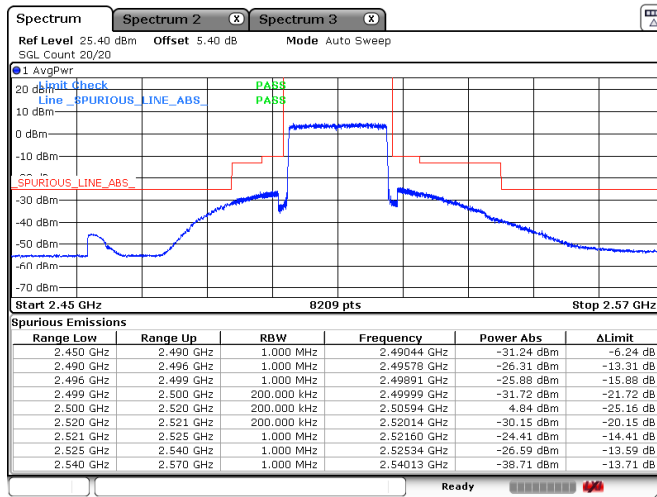


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Date: 12.DEC.2019 07:22:29

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

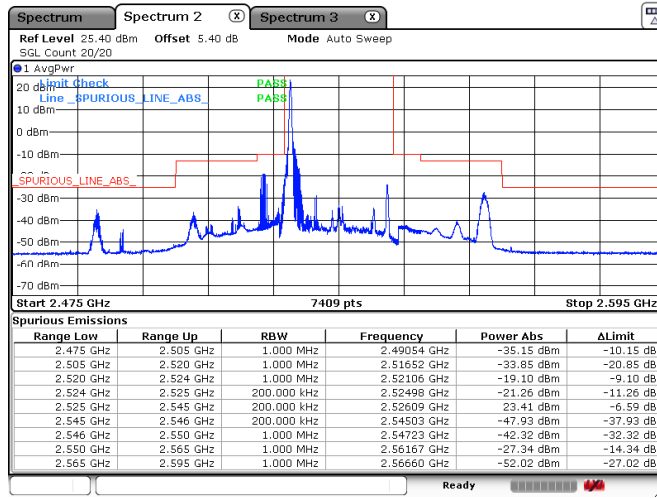


Date: 12.DEC.2019 07:22:56

Band7-20MHz-16QAM-21100-1RB#0

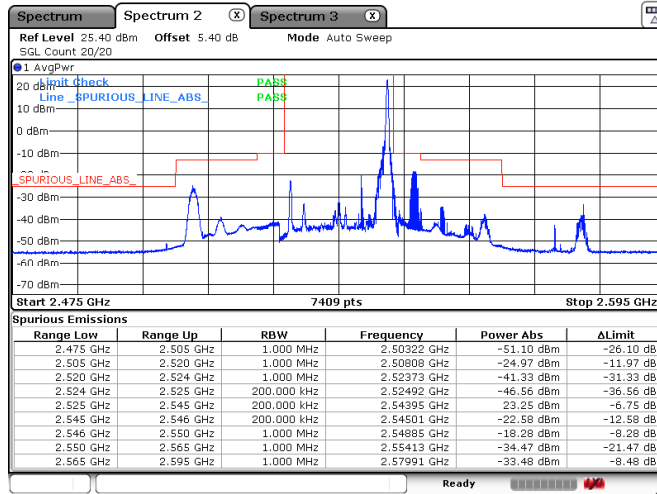


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Date: 12.DEC.2019 07:23:41

Band7-20MHz-16QAM-21100-1RB#99

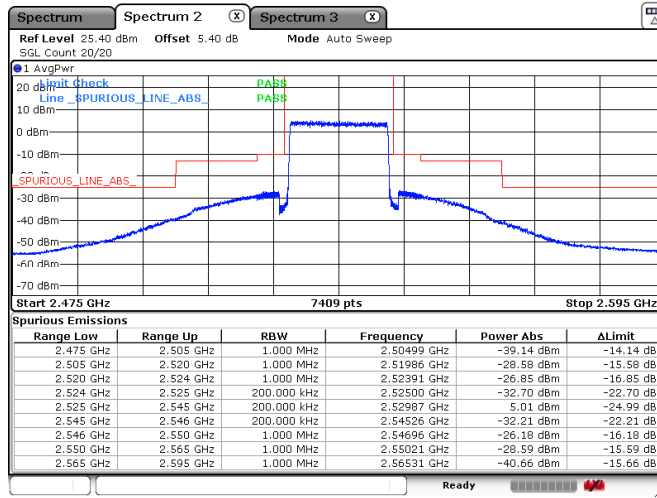


Date: 12.DEC.2019 07:24:20

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

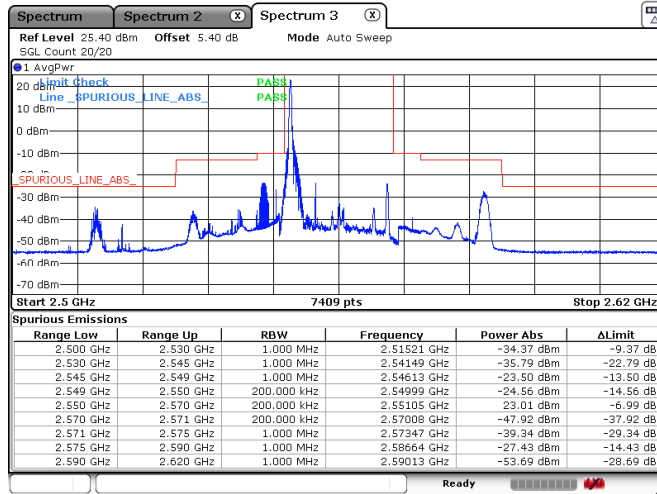


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Date: 12.DEC.2019 07:25:44

Band7-20MHz-16QAM-21350-1RB#0

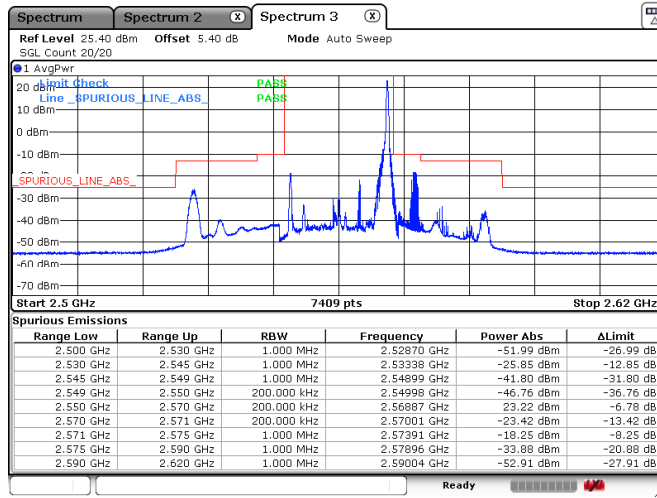


Date: 12.DEC.2019 07:26:33

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

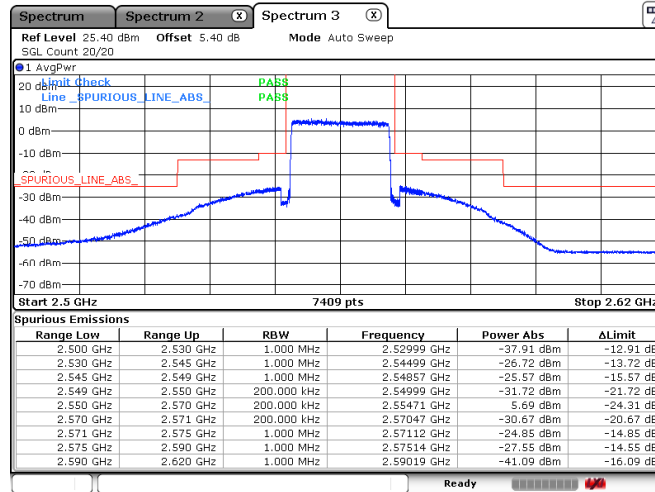


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Date: 12.DEC.2019 07:27:01

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



Date: 12.DEC.2019 07:27:35



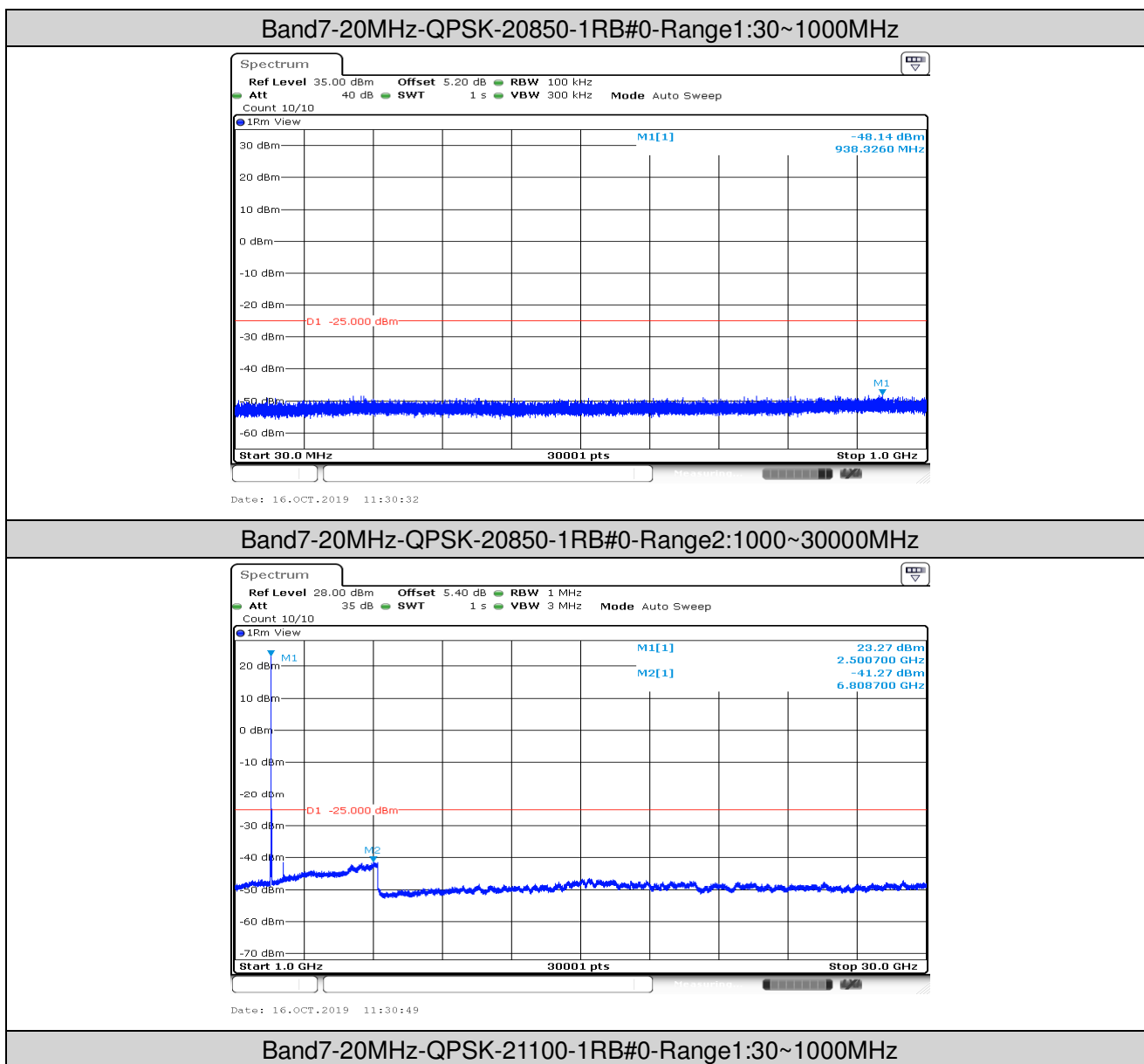
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6. Spurious Emission at Antenna Terminal

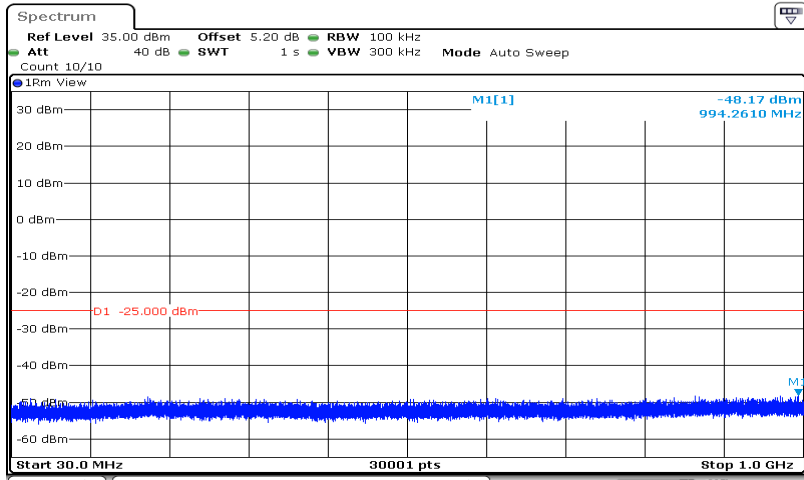
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k * (Span / RBW)$ " 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

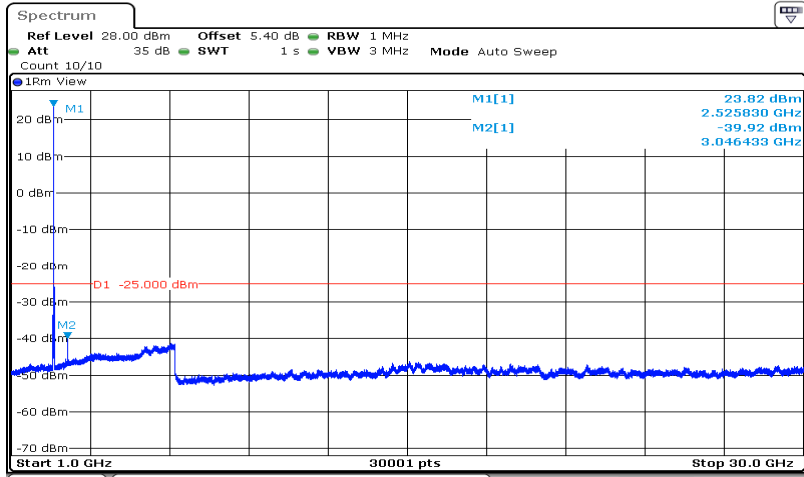


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Date: 16.OCT.2019 11:31:44

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

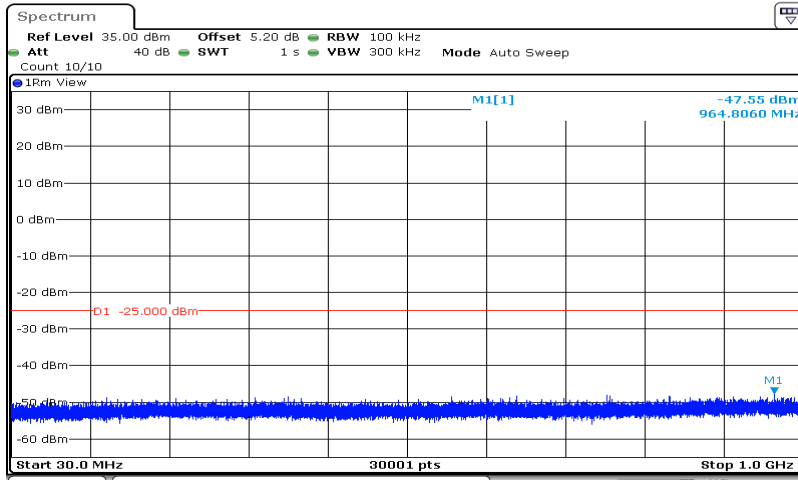


Date: 16.OCT.2019 11:32:00

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

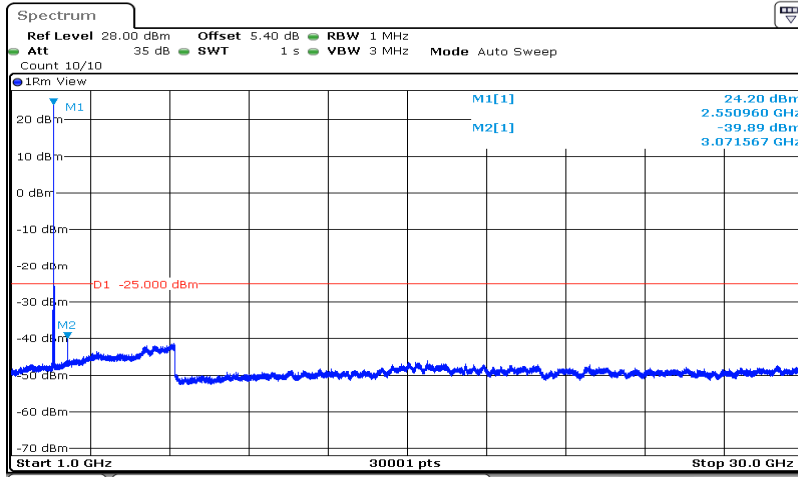


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Date: 16.OCT.2019 11:32:55

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

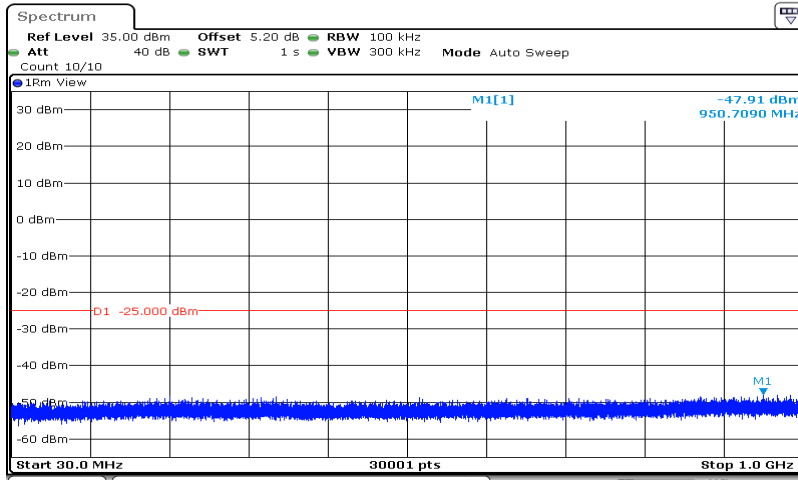


Date: 16.OCT.2019 11:33:11

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

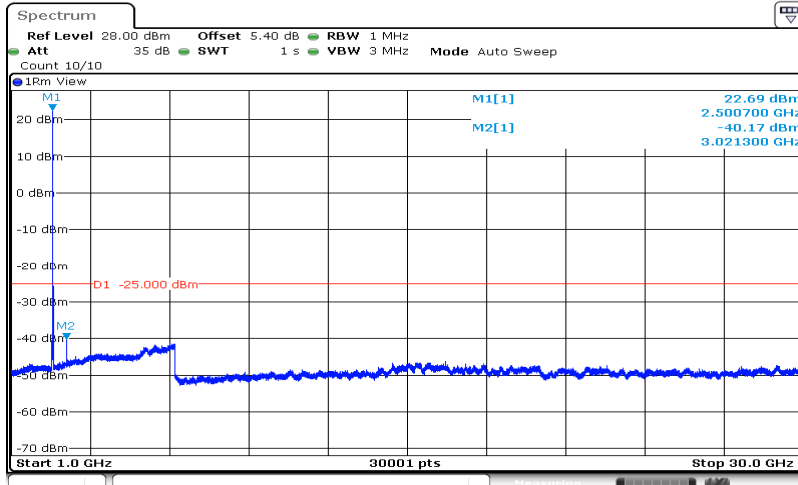


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Date: 16.OCT.2019 11:31:08

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

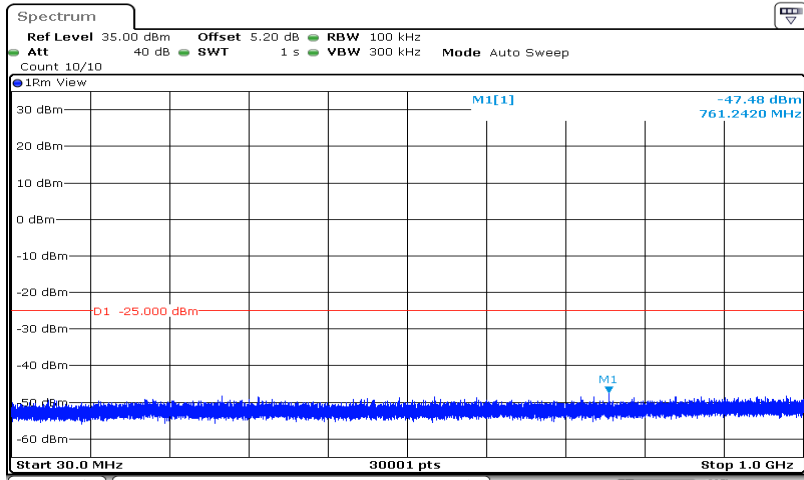


Date: 16.OCT.2019 11:31:24

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

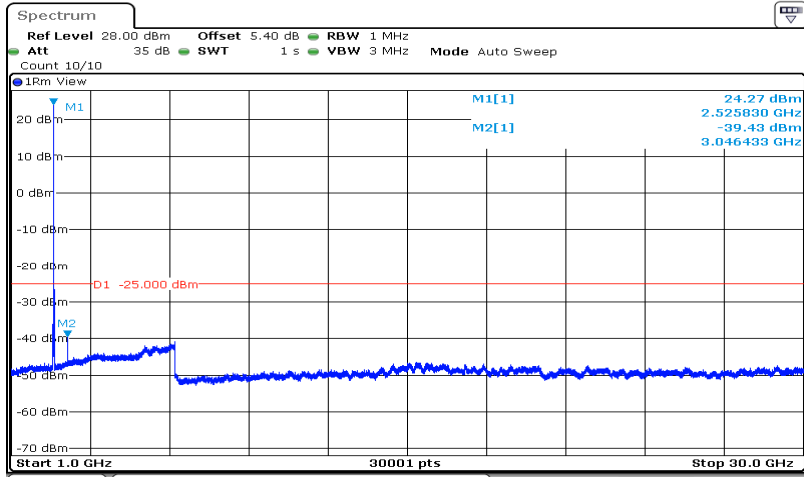


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Date: 16.OCT.2019 11:32:19

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

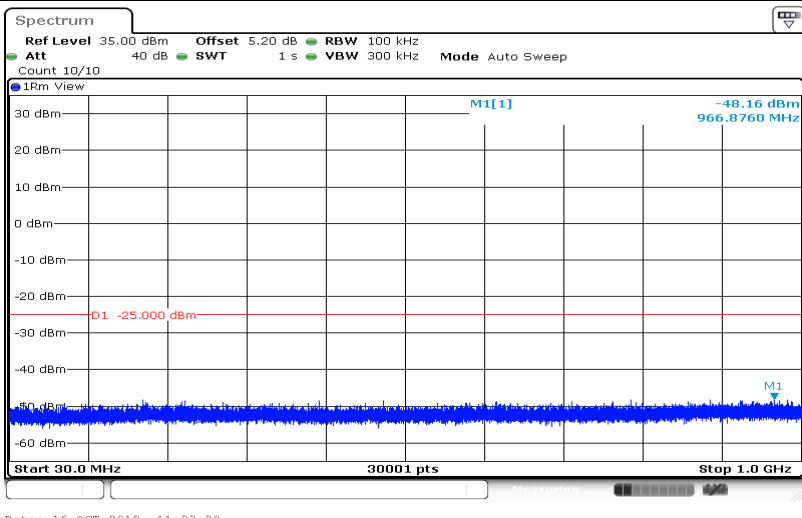


Date: 16.OCT.2019 11:32:35

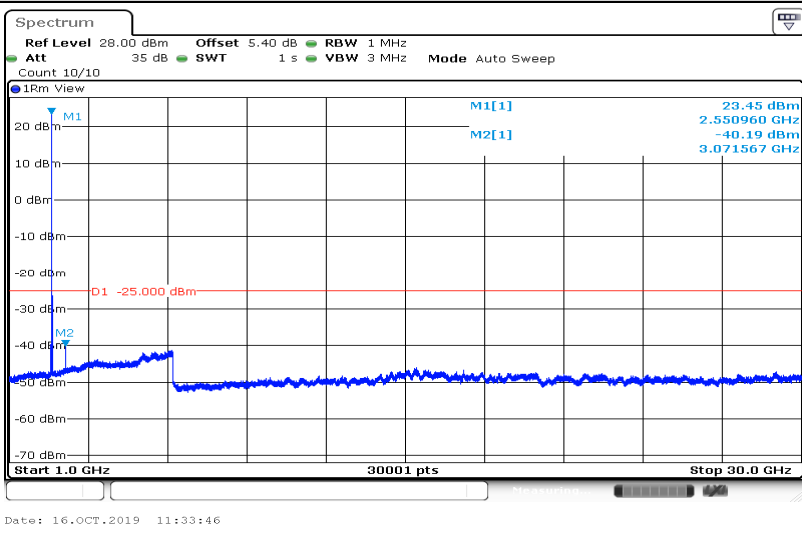
Band7-20MHz-16QAM-21350-1RB#0-Range1:30~1000MHz



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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)	Polarization
48.7704	-72.36	-25.00	47.36	Vertical
113.5697	-65.07	-25.00	40.07	Vertical
391.6826	-67.83	-25.00	42.83	Vertical
1579.3159	-45.47	-25.00	20.47	Vertical
8481.8193	-54.12	-25.00	29.12	Vertical
17998.1999	-35.24	-25.00	10.24	Vertical
43.1442	-63.96	-25.00	38.96	Horizontal
238.6574	-67.75	-25.00	42.75	Horizontal
529.8175	-65.69	-25.00	40.69	Horizontal
1739.7480	-44.88	-25.00	19.88	Horizontal
6967.9587	-56.59	-25.00	31.59	Horizontal
16401.5361	-40.32	-25.00	15.32	Horizontal

7.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
62.8361	-71.30	-25.00	46.30	Vertical
107.8949	-63.75	-25.00	38.75	Vertical
292.3981	-69.32	-25.00	44.32	Vertical
1626.9254	-45.07	-25.00	20.07	Vertical
8588.0235	-54.12	-25.00	29.12	Vertical
17995.7998	-35.47	-25.00	10.47	Vertical
38.8759	-63.84	-25.00	38.84	Horizontal
105.1788	-75.61	-25.00	50.61	Horizontal
234.7287	-68.65	-25.00	43.65	Horizontal
1639.7279	-45.33	-25.00	20.33	Horizontal
8828.0331	-53.86	-25.00	28.86	Horizontal
17990.9996	-39.72	-25.00	14.72	Horizontal



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7.1.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
64.0972	-69.62	-25.00	44.62	Vertical
110.5625	-65.36	-25.00	40.36	Vertical
609.7495	-62.18	-25.00	37.18	Vertical
1639.3279	-44.50	-25.00	19.50	Vertical
7942.9977	-54.57	-25.00	29.57	Vertical
17982.5993	-35.39	-25.00	10.39	Vertical
44.0172	-64.13	-25.00	39.13	Horizontal
233.4192	-67.81	-25.00	42.81	Horizontal
596.0718	-63.96	-25.00	38.96	Horizontal
1797.7596	-43.58	-25.00	18.58	Horizontal
8589.8236	-54.25	-25.00	29.25	Horizontal
17992.1997	-39.36	-25.00	14.36	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	-9.70	-0.003865	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	VN	NT	2.30	0.000916	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	VH	NT	5.00	0.001992	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VL	NT	4.90	0.001933	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VN	NT	-2.20	-0.000868	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VH	NT	-13.20	-0.005207	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VL	NT	-13.50	-0.005273	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VN	NT	-4.50	-0.001758	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VH	NT	-11.60	-0.004531	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	VL	NT	11.90	0.004741	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	VN	NT	-14.80	-0.005896	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	VH	NT	-5.90	-0.002351	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	VL	NT	-5.30	-0.002091	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	VN	NT	-10.00	-0.003945	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	VH	NT	-9.50	-0.003748	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	VL	NT	-9.40	-0.003672	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	VN	NT	-13.30	-0.005195	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	VH	NT	-16.30	-0.006367	±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	-11.00	-0.004382	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	-20	8.60	0.003426	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	0	-2.60	-0.001036	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	10	-6.30	-0.002510	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	20	-7.60	-0.003028	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	30	3.80	0.001514	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	40	-9.40	-0.003745	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	50	5.80	0.002311	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-30	-8.00	-0.003156	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-20	-9.80	-0.003866	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	0	-28.80	-0.011361	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	10	0.70	0.000276	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	20	-12.00	-0.004734	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	30	0.10	0.000039	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	40	-1.60	-0.000631	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	50	-5.00	-0.001972	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	-30	-24.10	-0.009414	±2.5	PASS



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Band7	20MHz	QPSK	21350	100RB#0	NV	-20	-4.20	-0.001641	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	0	-10.10	-0.003945	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	10	-3.00	-0.001172	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	20	-4.80	-0.001875	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	30	-9.60	-0.003750	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	40	11.20	0.004375	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	50	-11.90	-0.004648	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	-30	-3.50	-0.001394	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	-20	-3.90	-0.001554	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	0	-17.00	-0.006773	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	10	-1.10	-0.000438	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	20	-4.90	-0.001952	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	30	-5.30	-0.002112	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	40	-14.60	-0.005817	±2.5	PASS
Band7	20MHz	16QAM	20850	100RB#0	NV	50	-5.10	-0.002032	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	-30	-6.90	-0.002722	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	-20	-23.40	-0.009231	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	0	10.80	0.004260	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	10	-8.80	-0.003471	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	20	-5.50	-0.002170	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	30	2.00	0.000789	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	40	0.30	0.000118	±2.5	PASS
Band7	20MHz	16QAM	21100	100RB#0	NV	50	4.40	0.001736	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	-30	-6.70	-0.002617	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	-20	-1.70	-0.000664	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	0	-11.00	-0.004297	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	10	-4.10	-0.001602	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	20	-15.70	-0.006133	±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	40	-5.00	-0.001953	±2.5	PASS
Band7	20MHz	16QAM	21350	100RB#0	NV	50	-17.50	-0.006836	±2.5	PASS

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