



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



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Band7	15MHz	QPSK	20825	1RB#0	24.21	24.80	33.00	PASS
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



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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
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] = 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

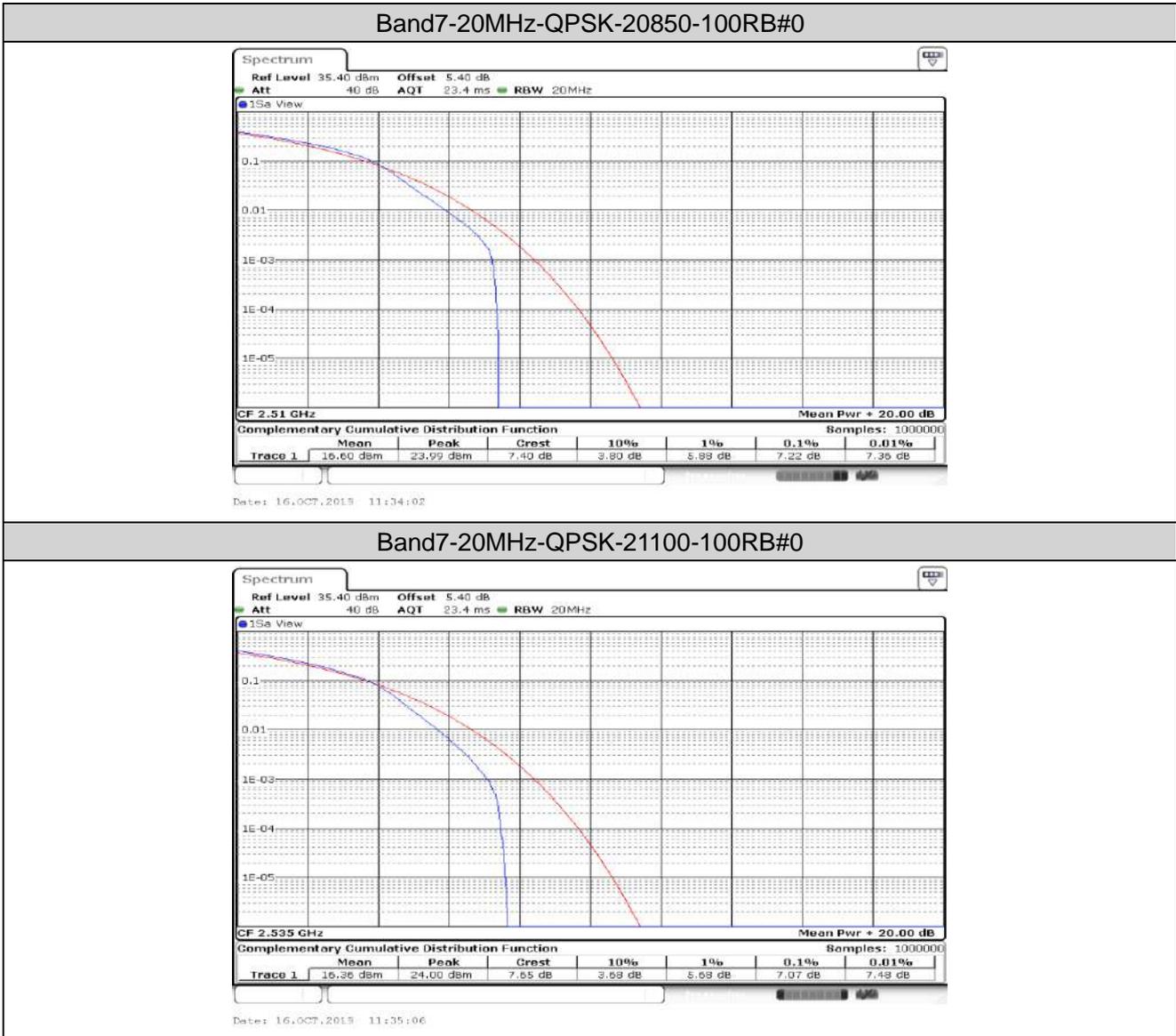
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band7	20MHz	QPSK	20850	100RB#0	7.22	13	PASS
Band7	20MHz	QPSK	21100	100RB#0	7.07	13	PASS
Band7	20MHz	QPSK	21350	100RB#0	7.19	13	PASS
Band7	20MHz	16QAM	20850	100RB#0	7.42	13	PASS
Band7	20MHz	16QAM	21100	100RB#0	7.42	13	PASS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



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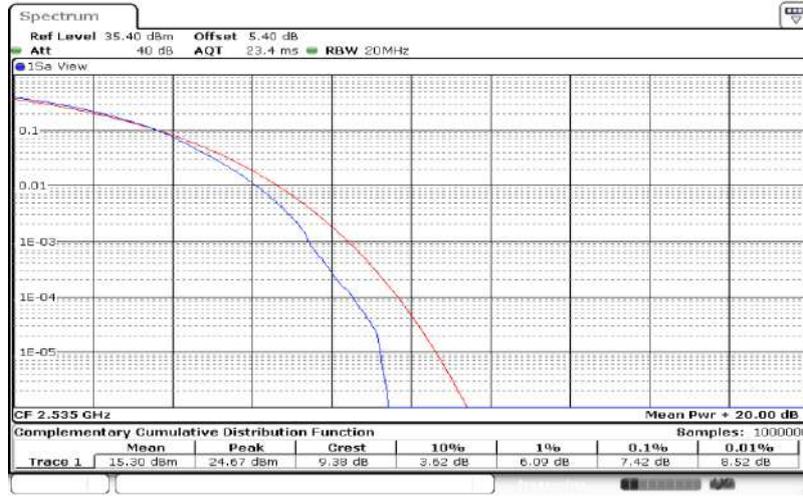
2.2. Test Plots



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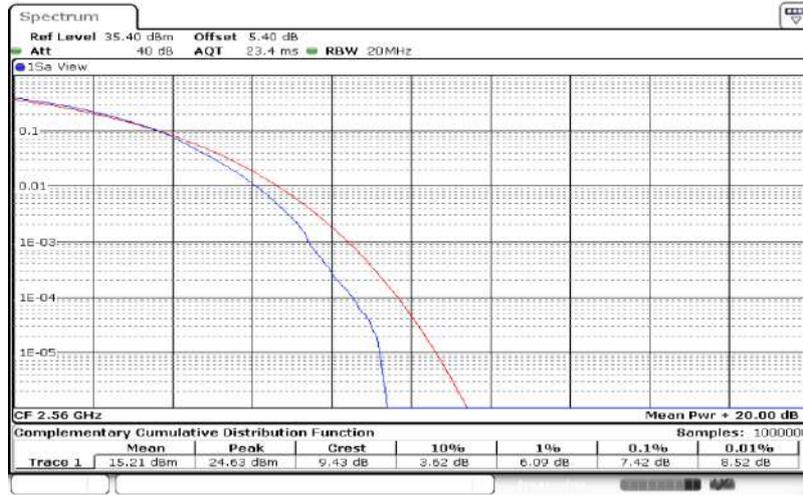
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Band7-20MHz-16QAM-21100-100RB#0



Date: 16.OCT.2019 11:35:18

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



Date: 16.OCT.2019 11:35:41



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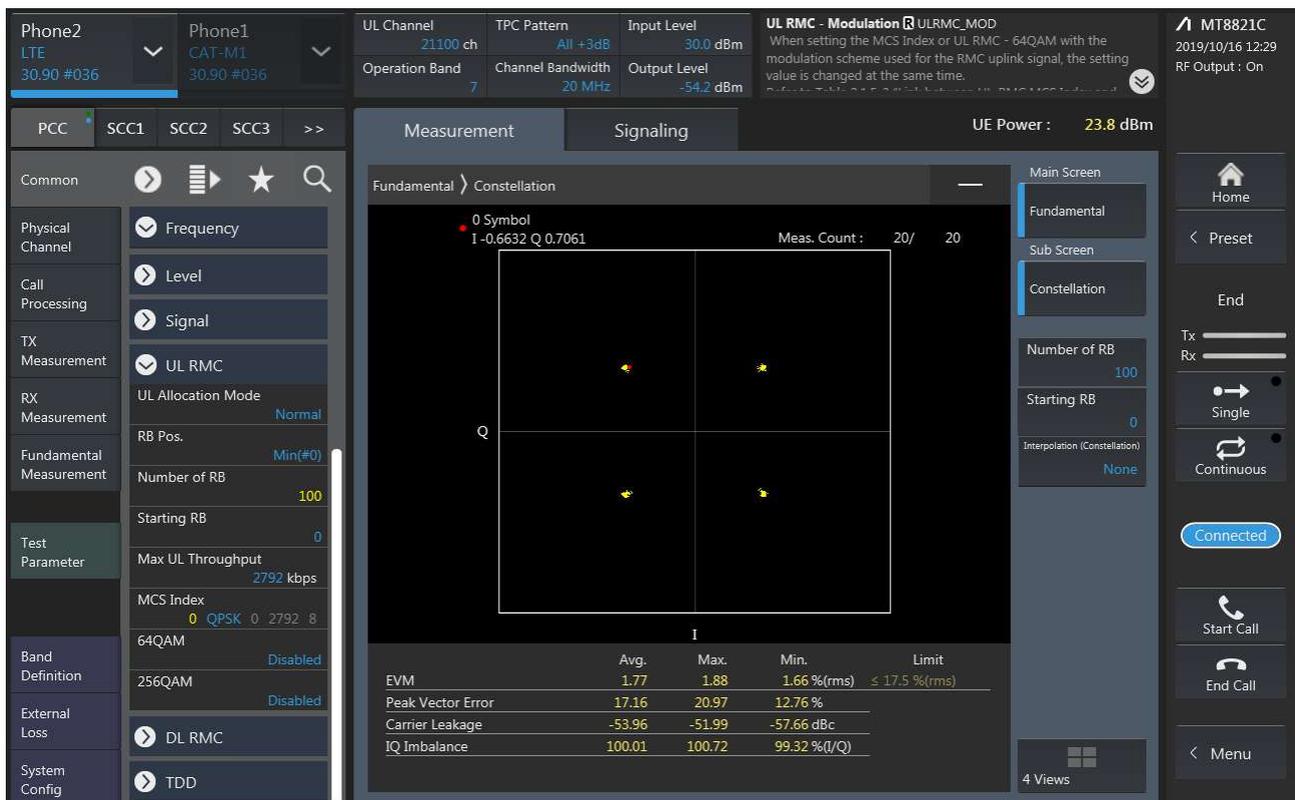


3. Modulation Characteristics

3.1. Test Band = LTE Band 7

3.1.1. Test Mode = LTE /TM1 20MHz

3.1.1.1. Test Channel = MCH



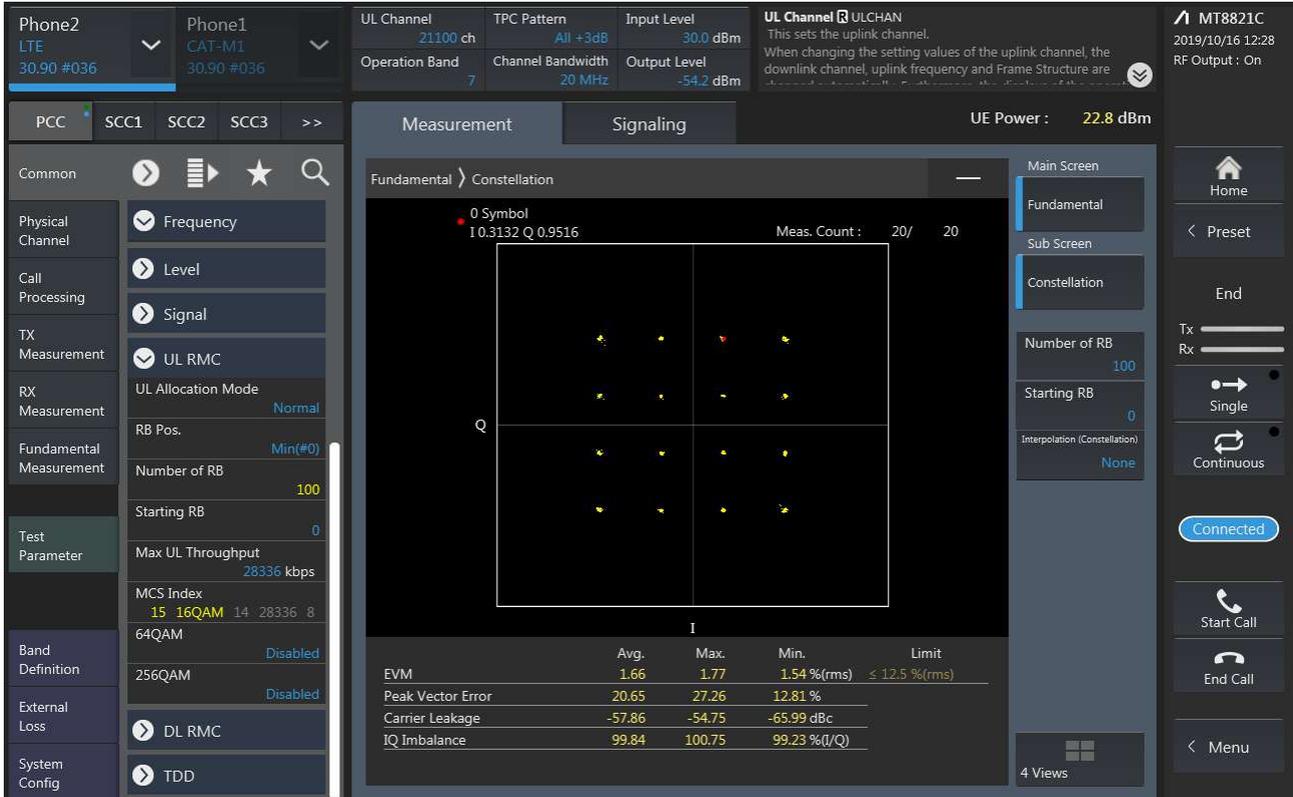
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3.1.2. Test Mode = LTE /TM2 20MHz

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



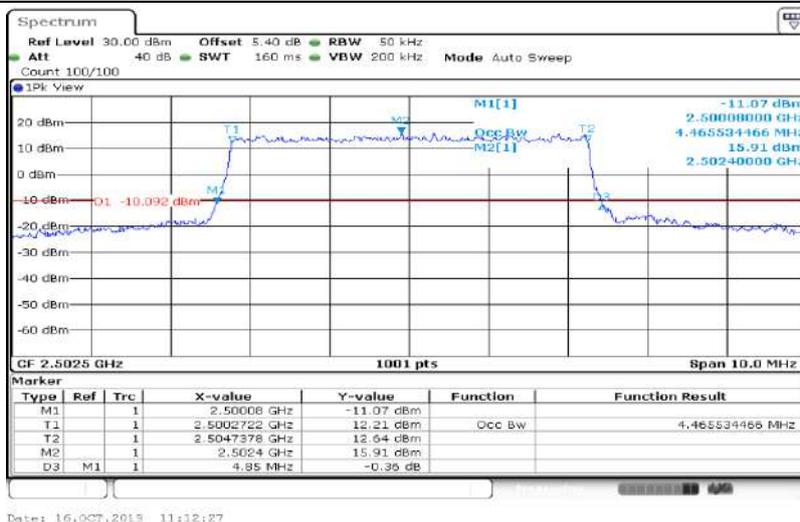
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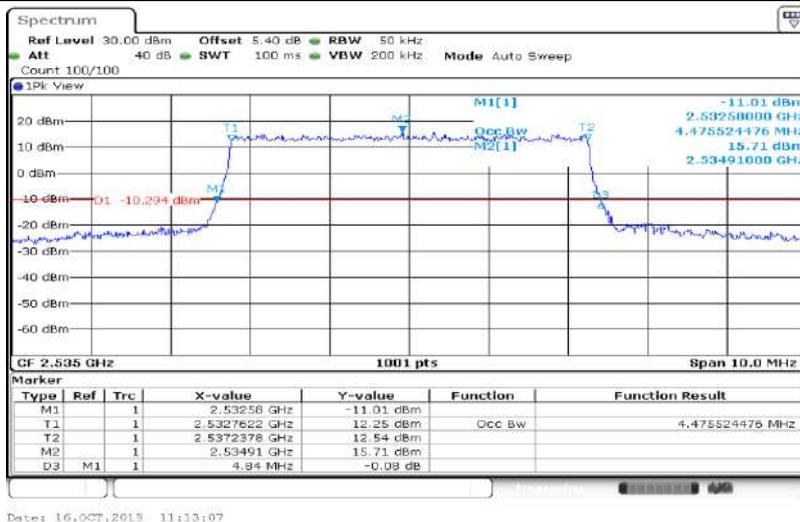


4.2. Test Plots

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



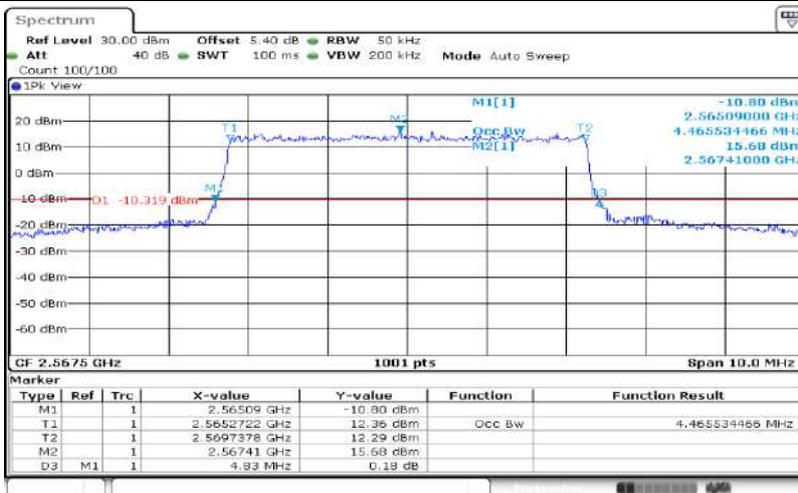
Band7-5MHz-QPSK-21100-25RB#0-4.476



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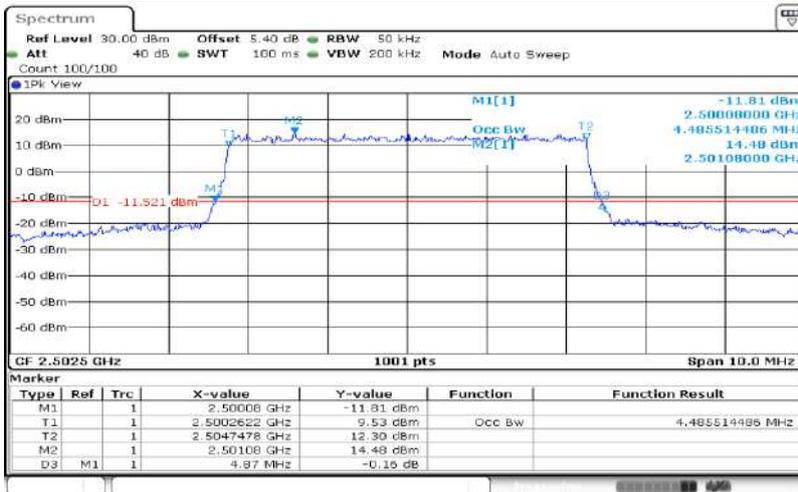


Band7-5MHz-QPSK-21425-25RB#0-4.466



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

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



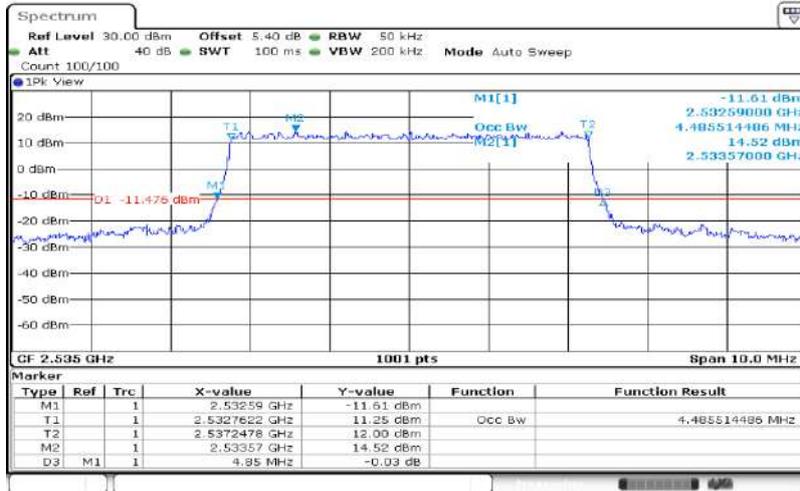
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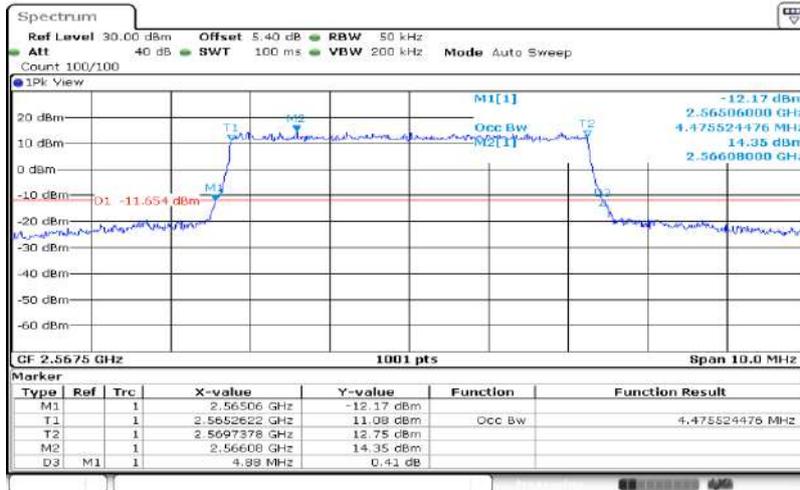


Band7-5MHz-16QAM-21100-25RB#0-4.486



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

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



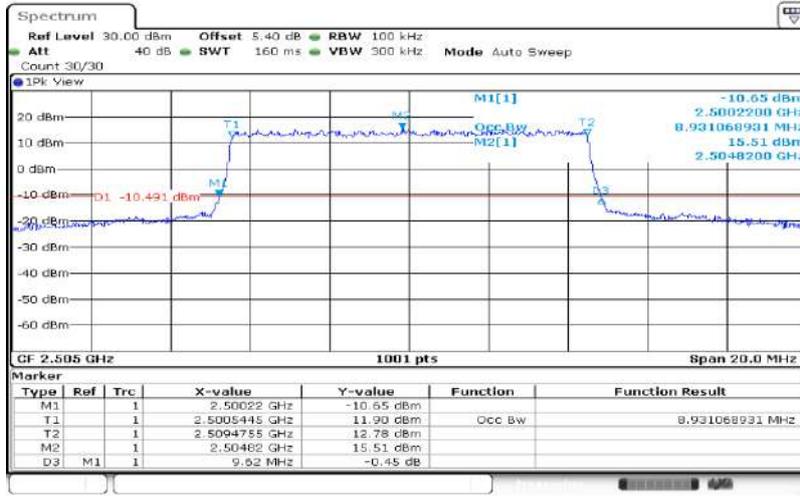
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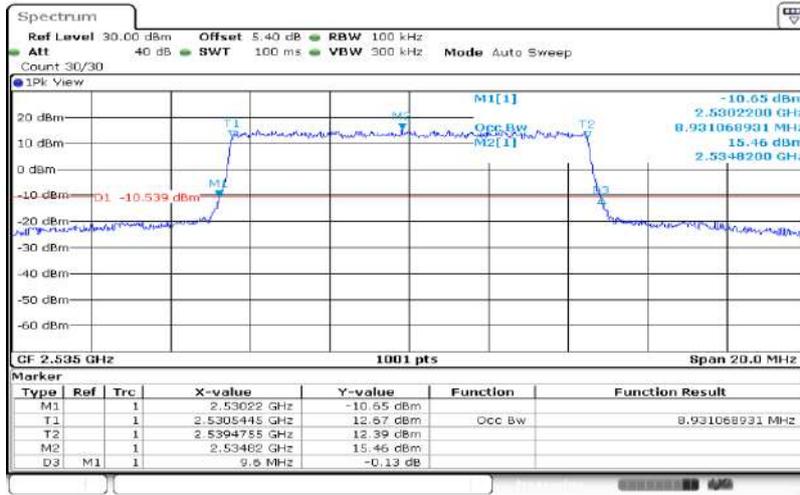


Band7-10MHz-QPSK-20800-50RB#0-8.931



Date: 16.OCT.2019 11:14:27

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



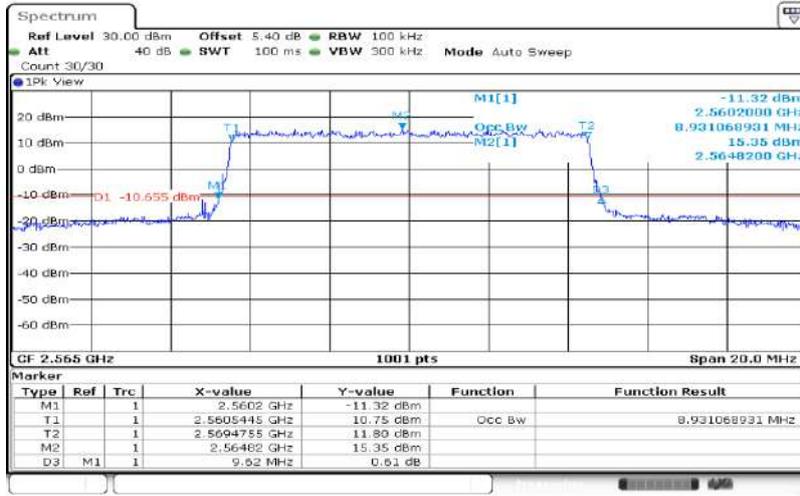
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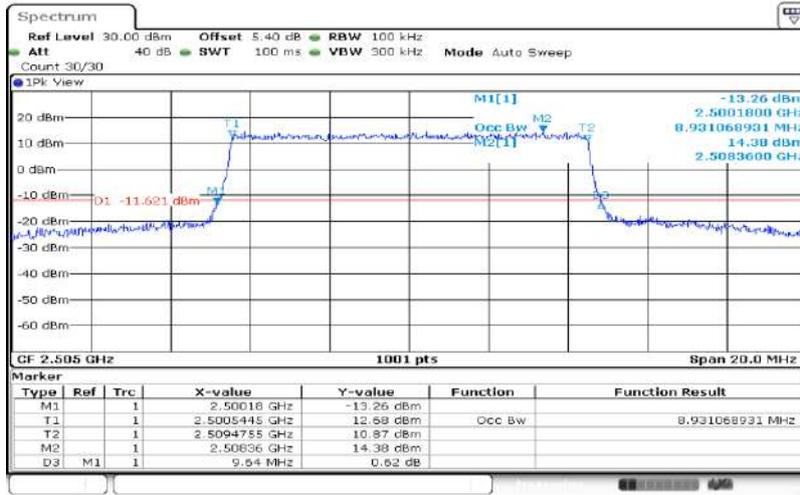


Band7-10MHz-QPSK-21400-50RB#0-8.931



Date: 16.OCT.2019 11:15:19

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



Date: 16.OCT.2019 11:14:39

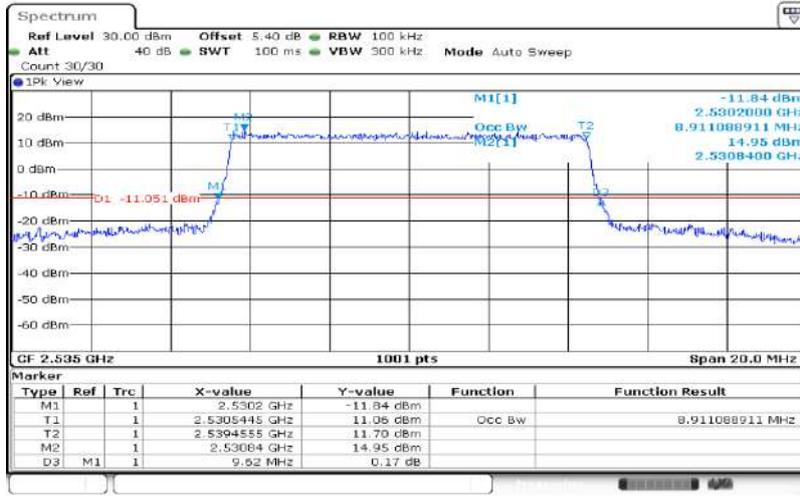


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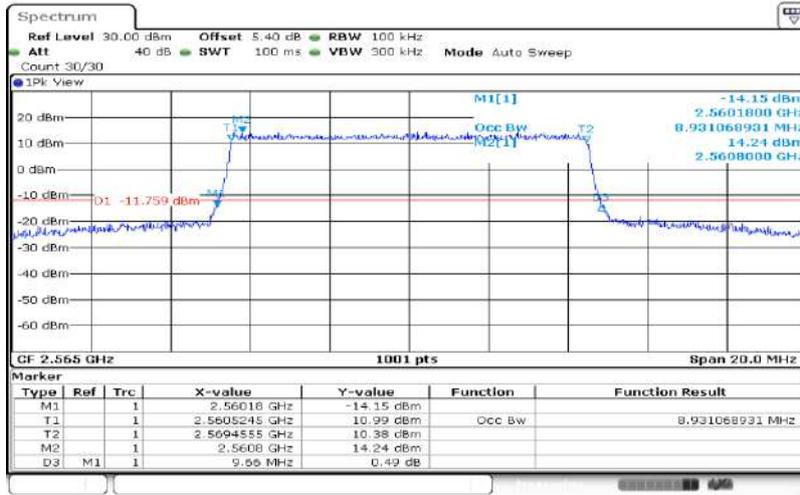
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Band7-10MHz-16QAM-21100-50RB#0-8.911



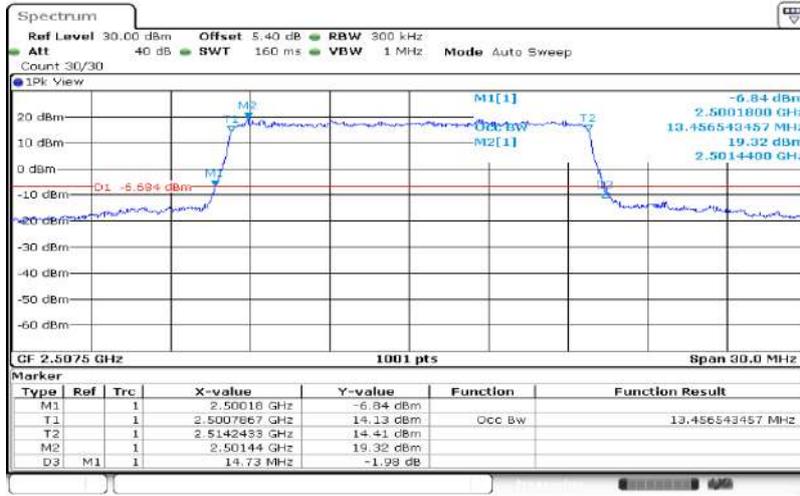
Band7-10MHz-16QAM-21400-50RB#0-8.931



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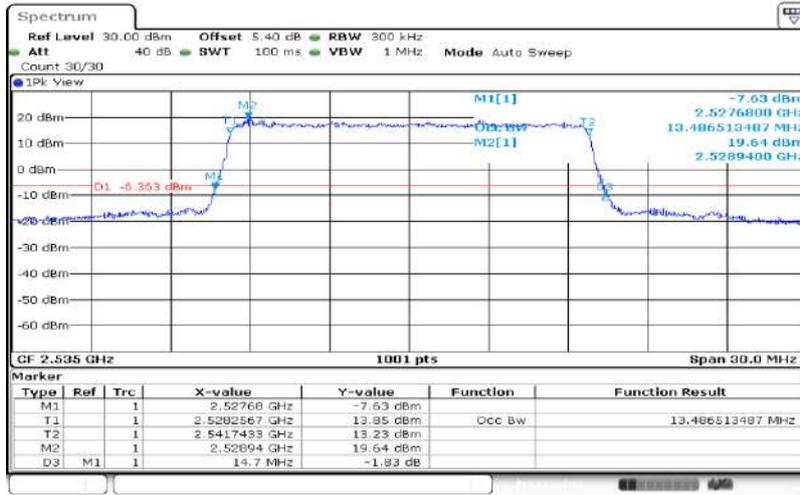


Band7-15MHz-QPSK-20825-75RB#0-13.457



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

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



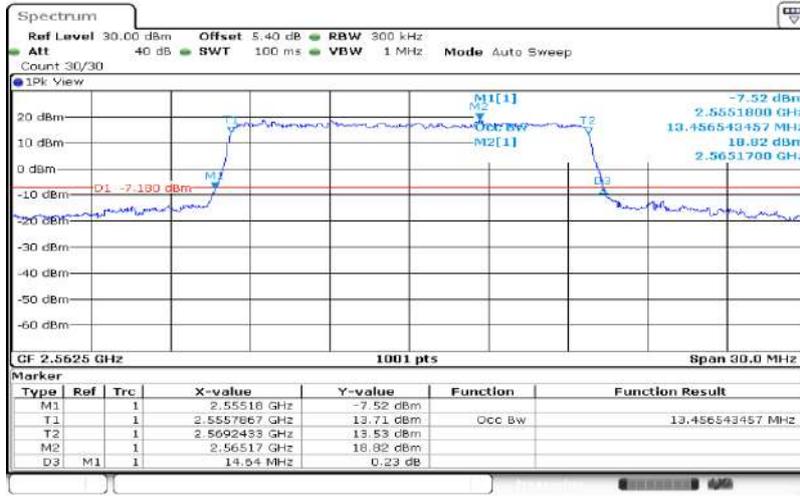
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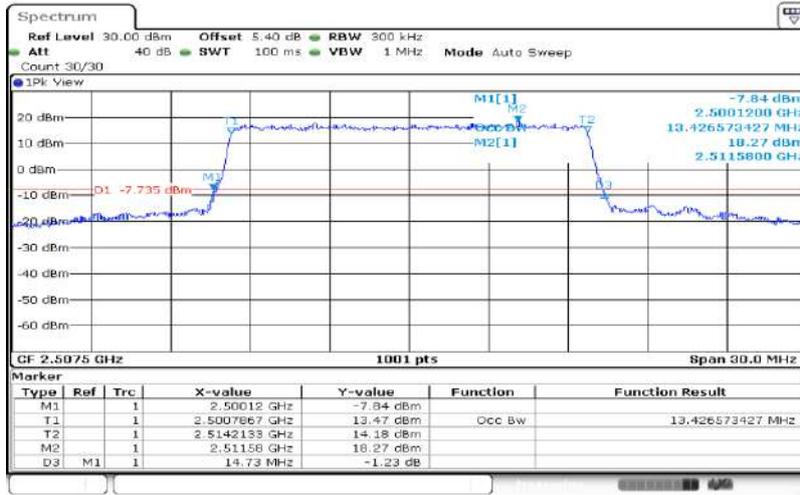


Band7-15MHz-QPSK-21375-75RB#0-13.457



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

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



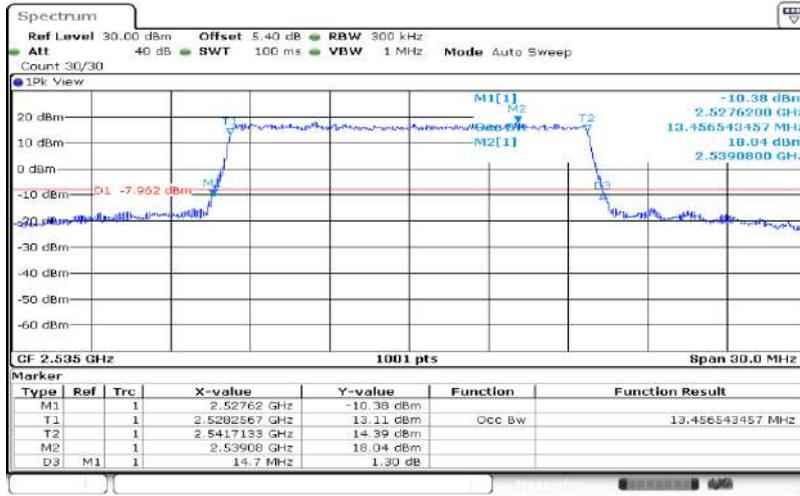
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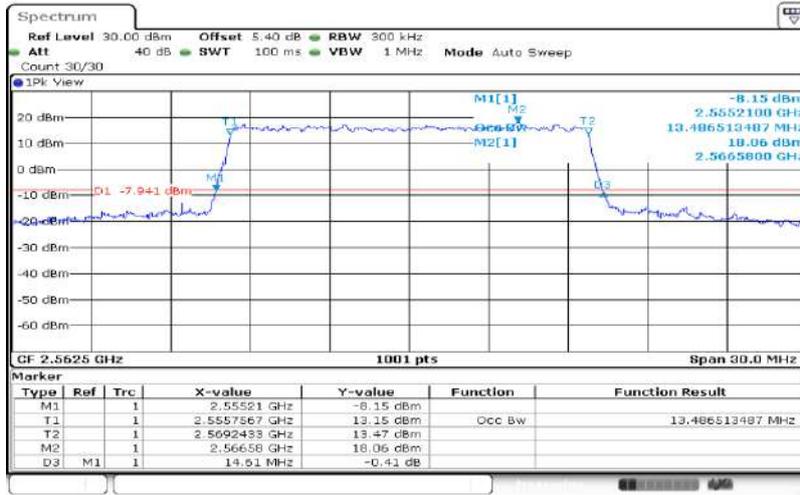


Band7-15MHz-16QAM-21100-75RB#0-13.457



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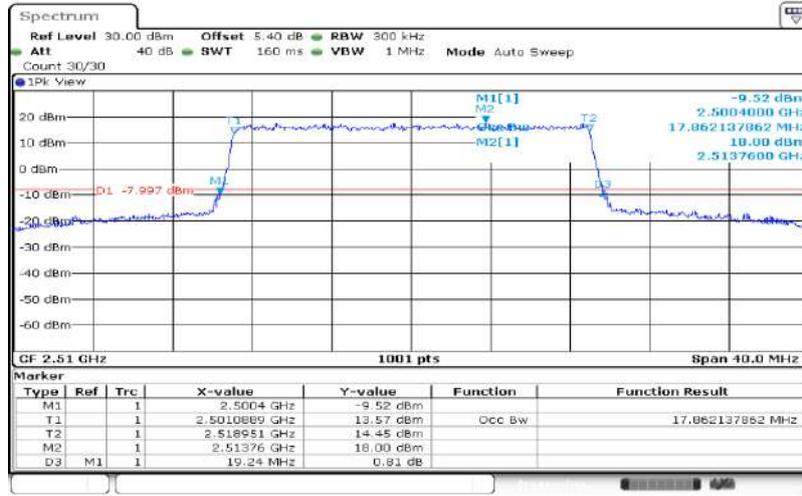
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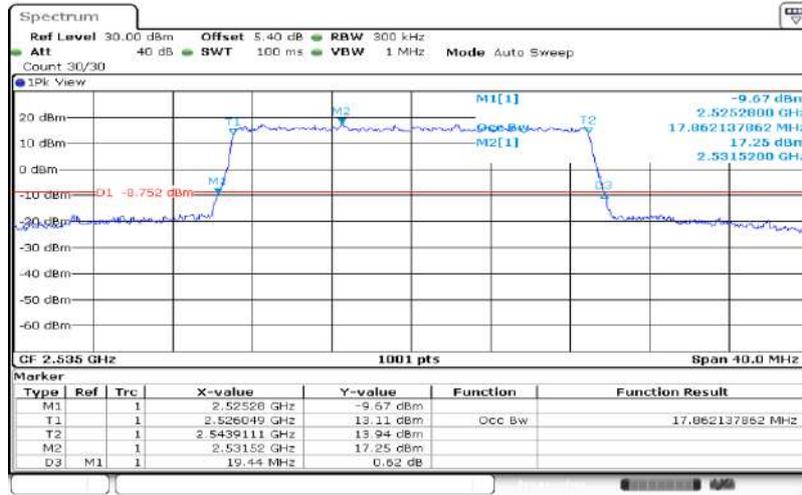


Band7-20MHz-QPSK-20850-100RB#0-17.862



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

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



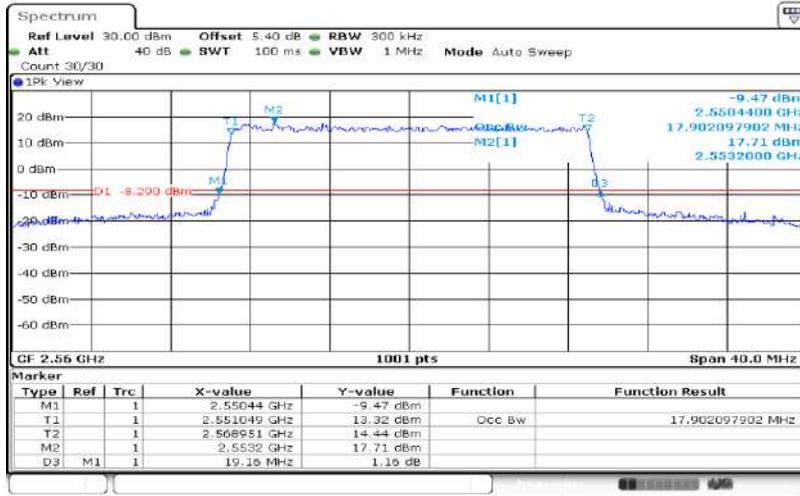
Date: 16.OCT.2019 11:17:42



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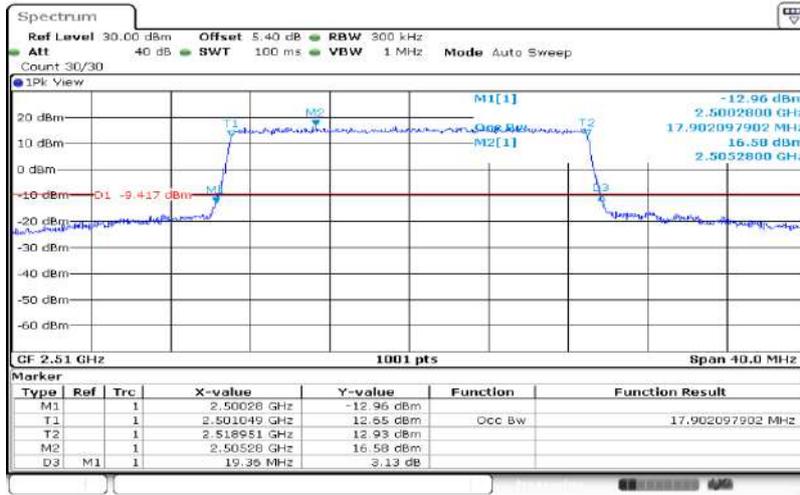


Band7-20MHz-QPSK-21350-100RB#0-17.902



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

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



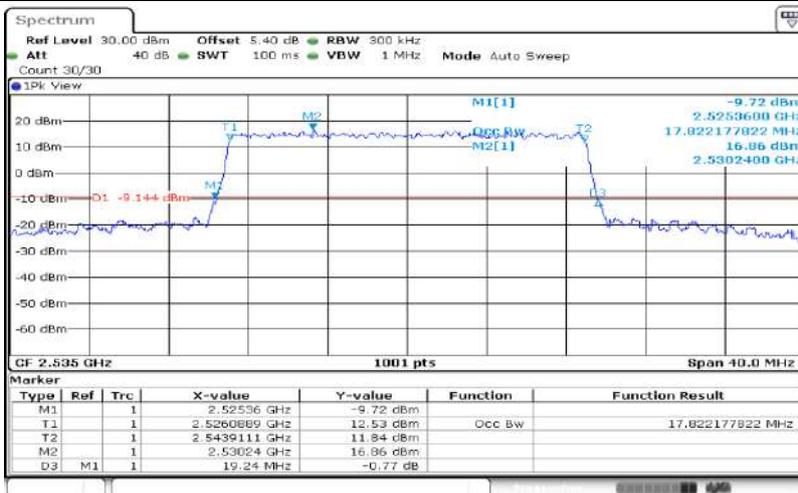
Date: 16.OCT.2019 11:17:29



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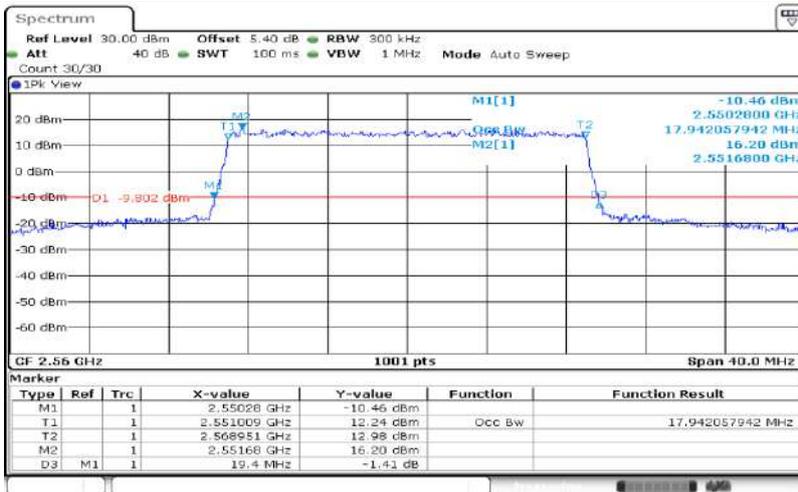


Band7-20MHz-16QAM-21100-100RB#0-17.822



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

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



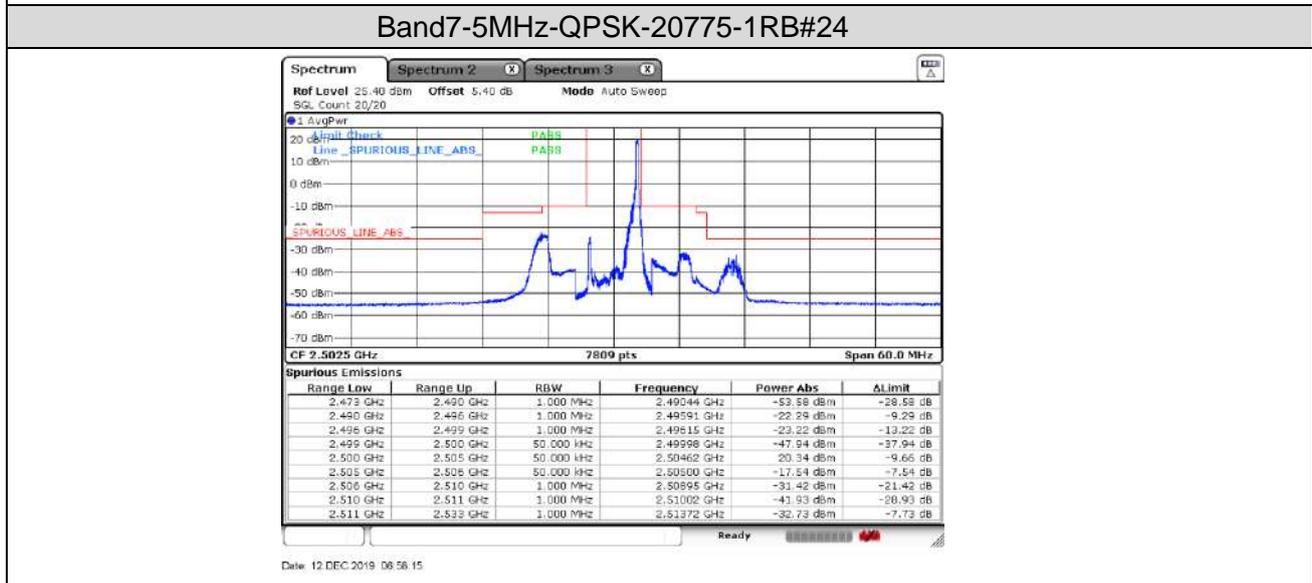
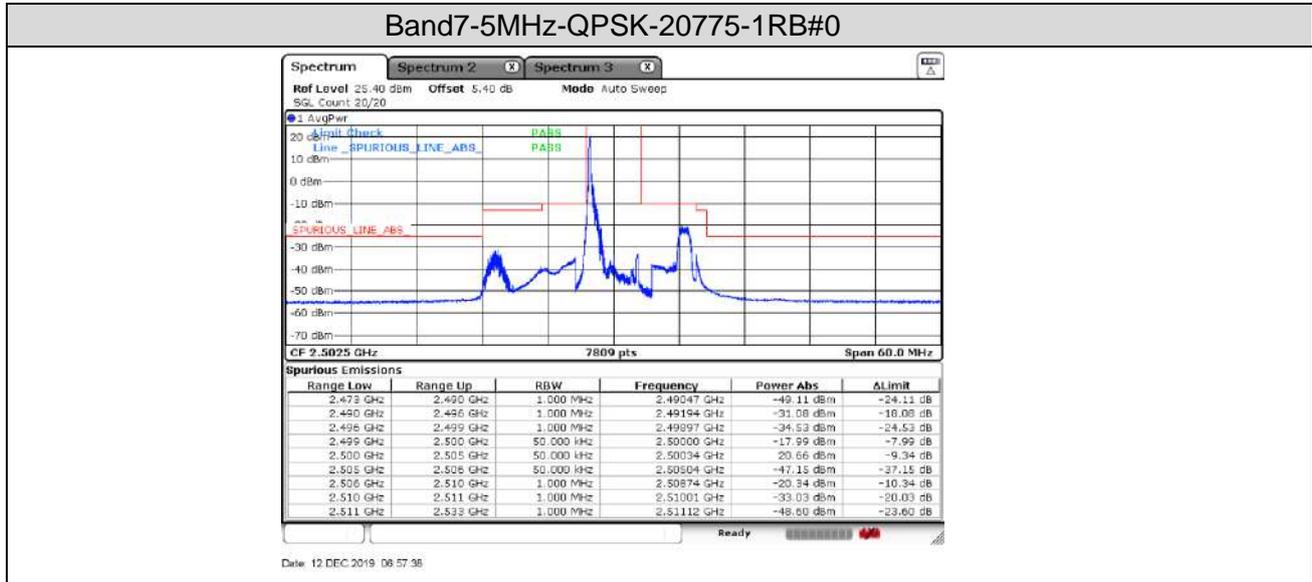
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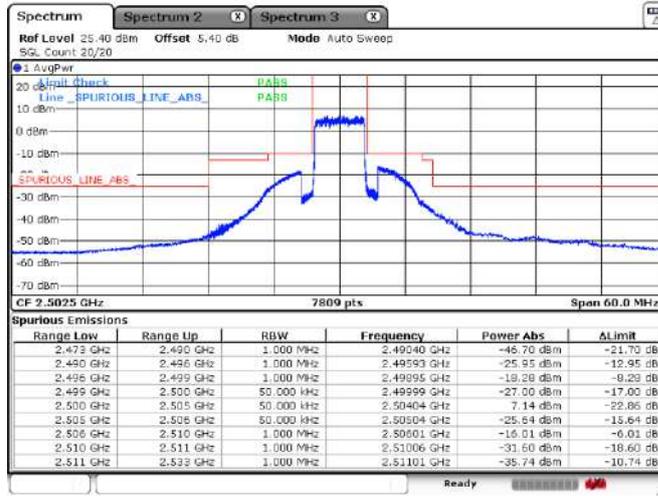
5. Emission Mask

5.1. Test Plots



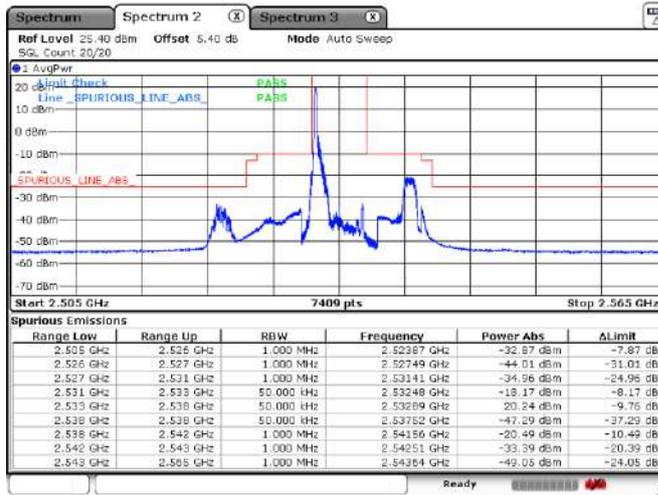
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Band7-5MHz-QPSK-20775-25RB#0



Date: 12 DEC 2019 06:56:49

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



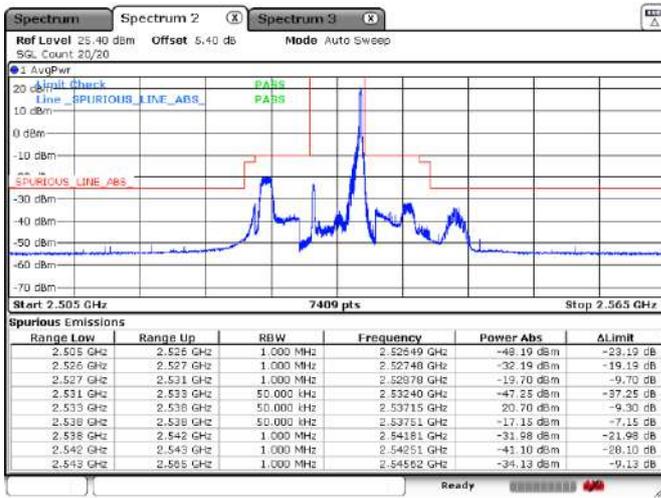
Date: 12 DEC 2019 08:59:36



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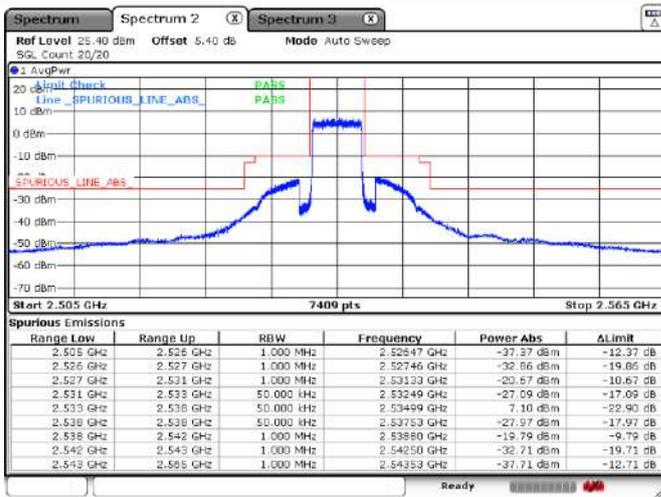
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Band7-5MHz-QPSK-21100-1RB#24



Date: 12 DEC 2019 07:00:14

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

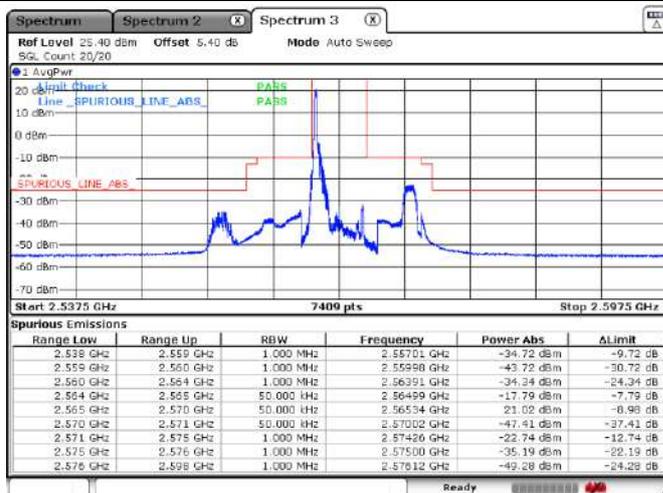


Date: 12 DEC 2019 07:00:44



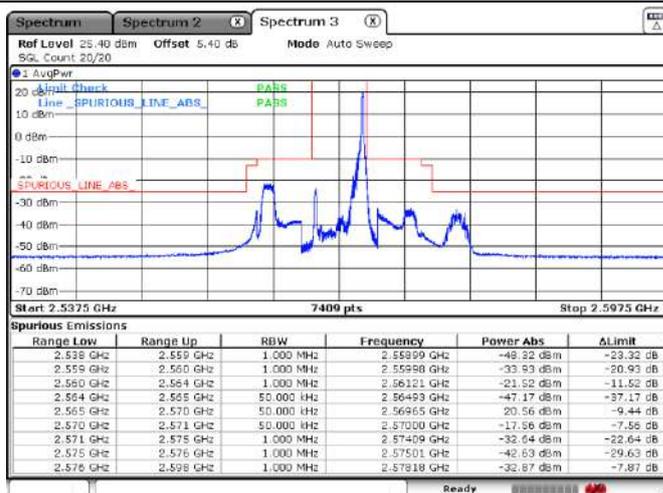
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Band7-5MHz-QPSK-21425-1RB#0



Date: 12 DEC 2019 07:01:14

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

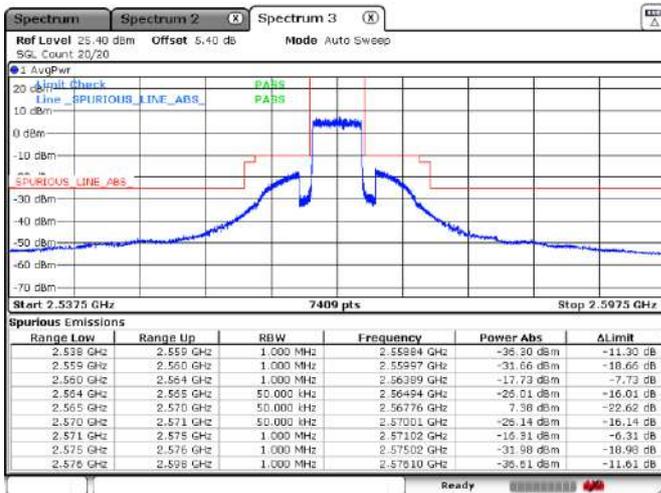


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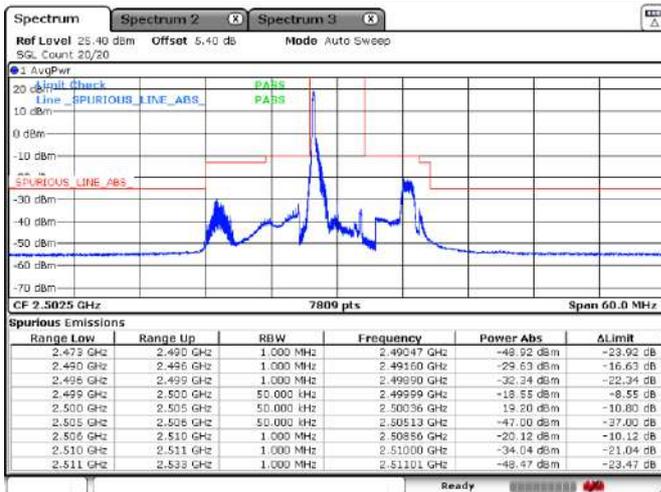
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Band7-5MHz-QPSK-21425-25RB#0



Date: 12 DEC 2019 07:02:10

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

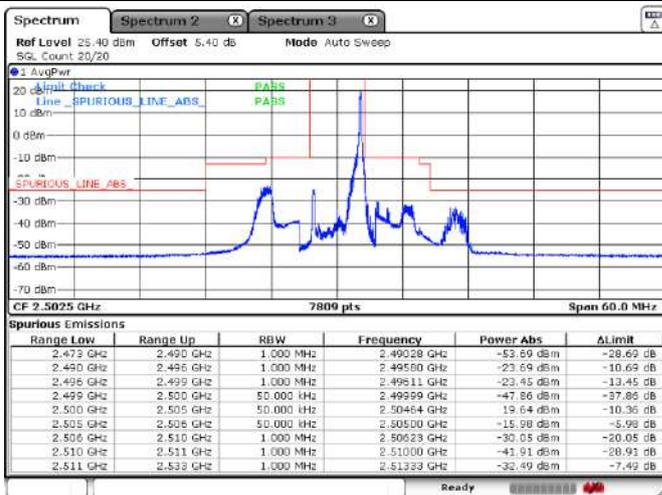


Date: 12 DEC 2019 08:57:54



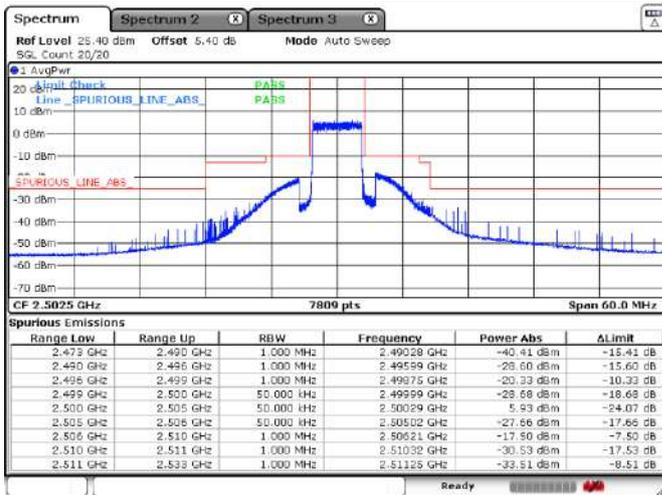
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Band7-5MHz-16QAM-20775-1RB#24



Date: 12 DEC 2019 08:58:29

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

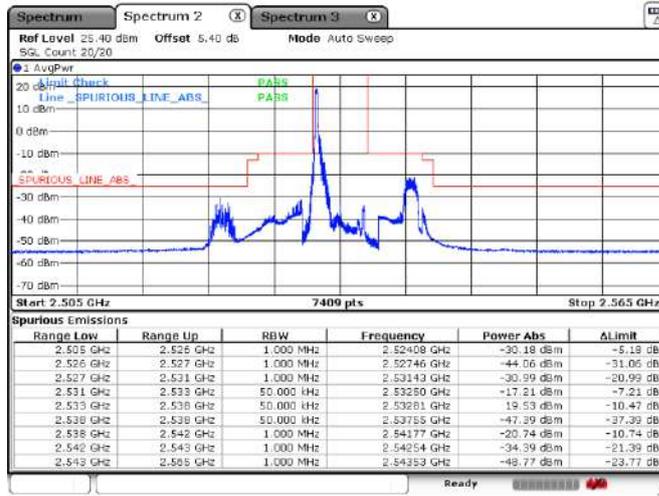


Date: 12 DEC 2019 08:59:00



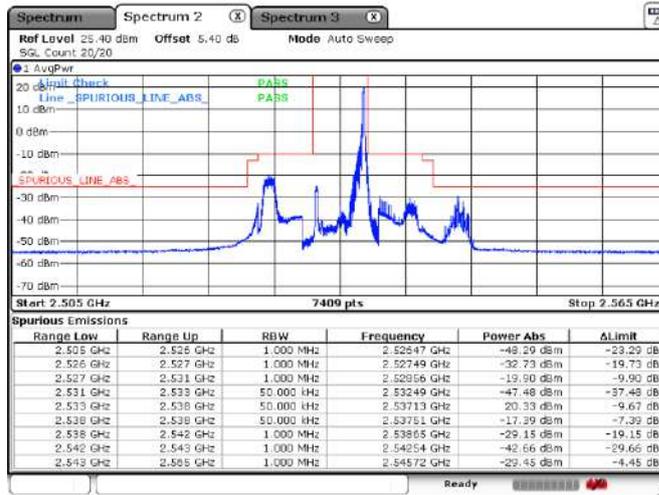
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Band7-5MHz-16QAM-21100-1RB#0



Date: 12 DEC 2019 08:59:54

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

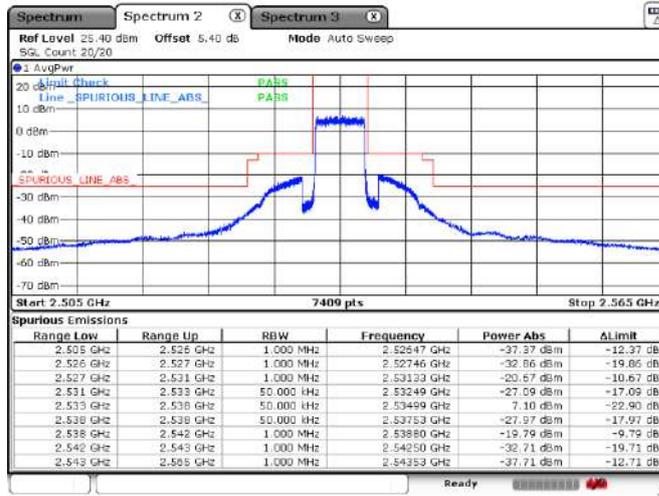


Date: 12 DEC 2019 07:00:27



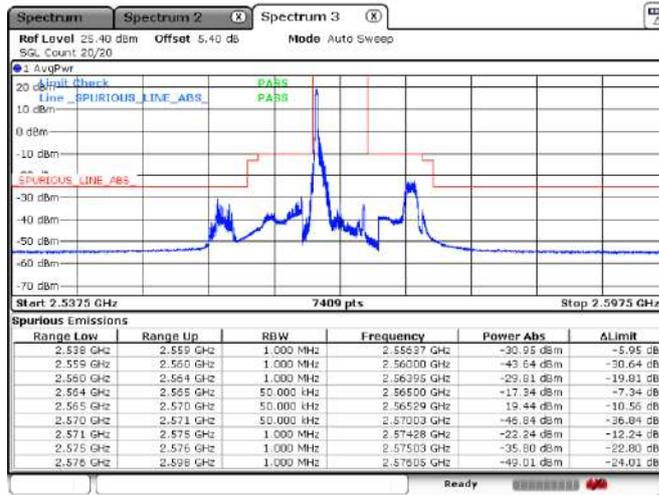
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Band7-5MHz-16QAM-21100-25RB#0



Date: 12 DEC 2019 07:00:44

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

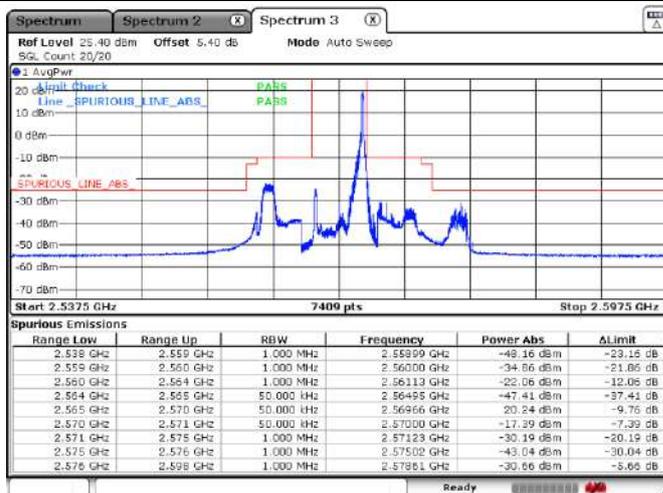


Date: 12 DEC 2019 07:01:30



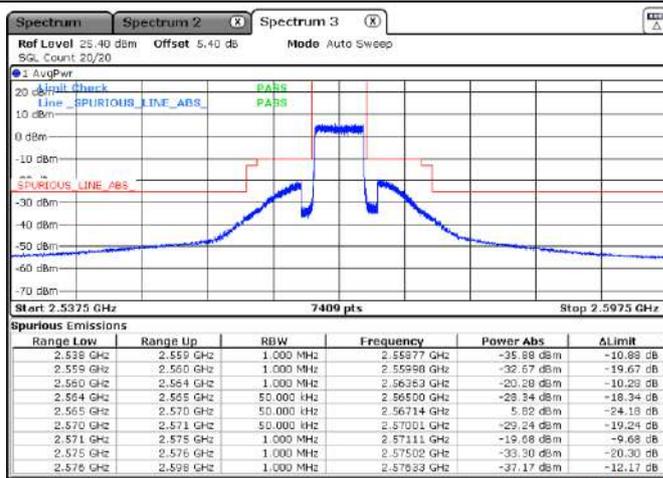
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Date: 12 DEC 2019 07:01:54

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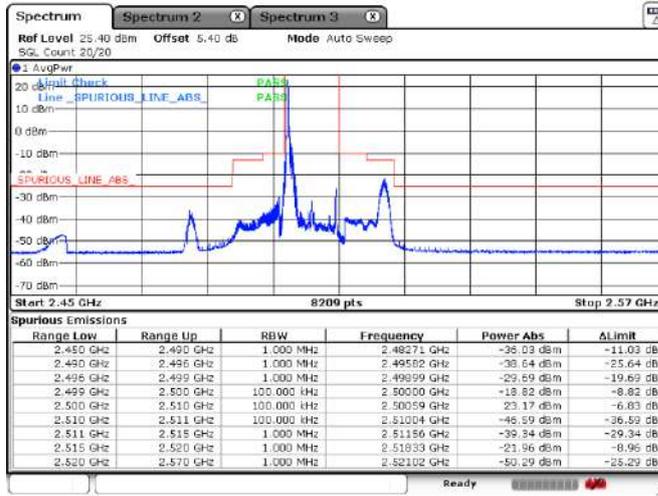


Date: 12 DEC 2019 07:02:22



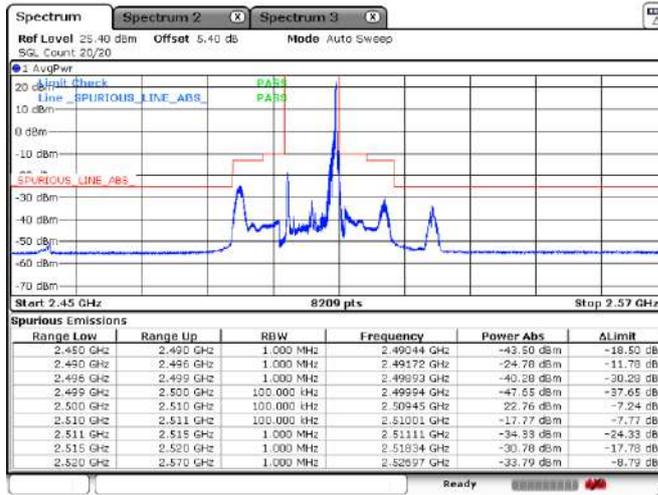
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Band7-10MHz-QPSK-20800-1RB#0



Date: 12 DEC 2019 07:07:11

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

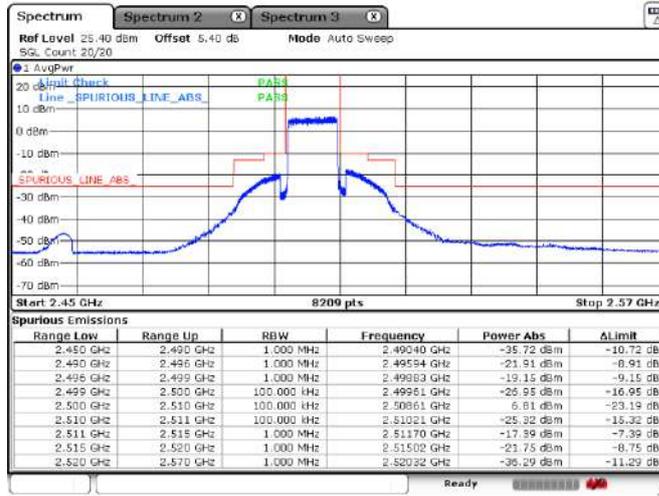


Date: 12 DEC 2019 07:08:26



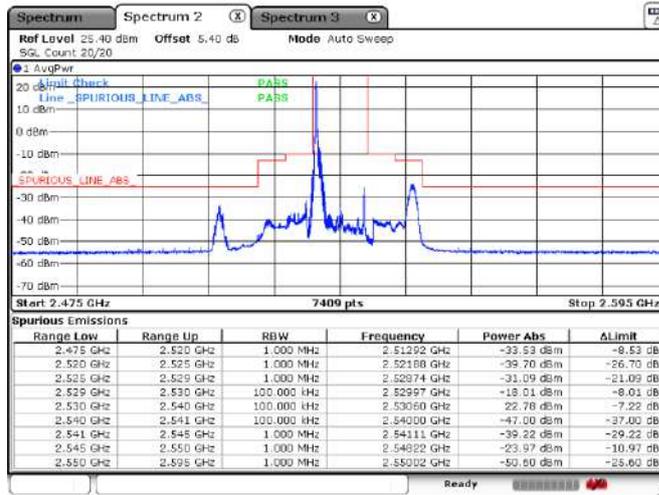
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Band7-10MHz-QPSK-20800-50RB#0



Date: 12 DEC 2019 07:09:55

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



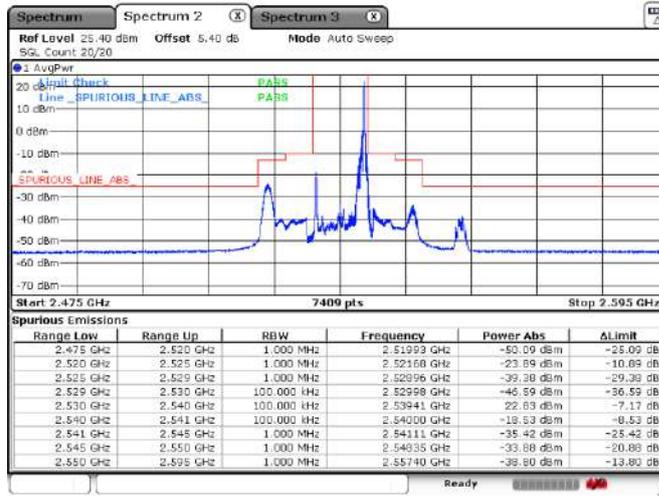
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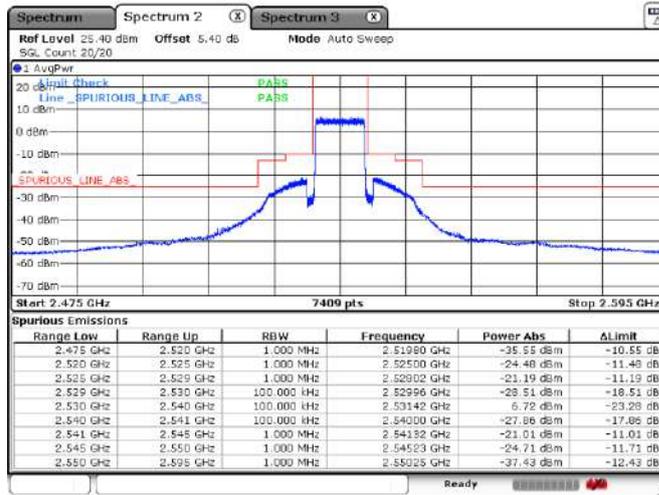
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Band7-10MHz-QPSK-21100-1RB#49



Date: 12 DEC 2019 07:11:15

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

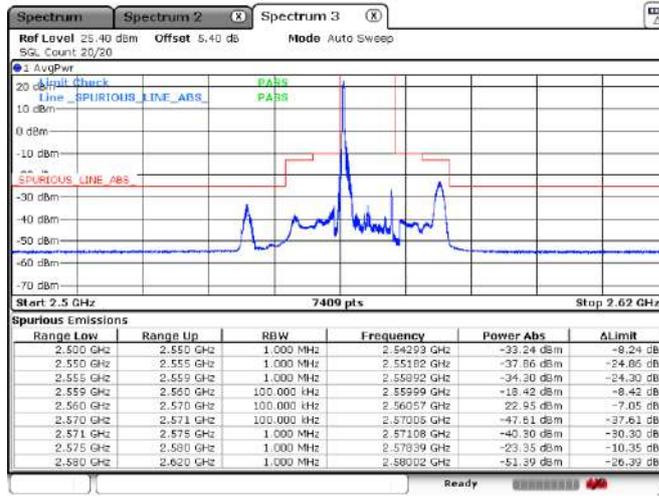


Date: 12 DEC 2019 07:11:45



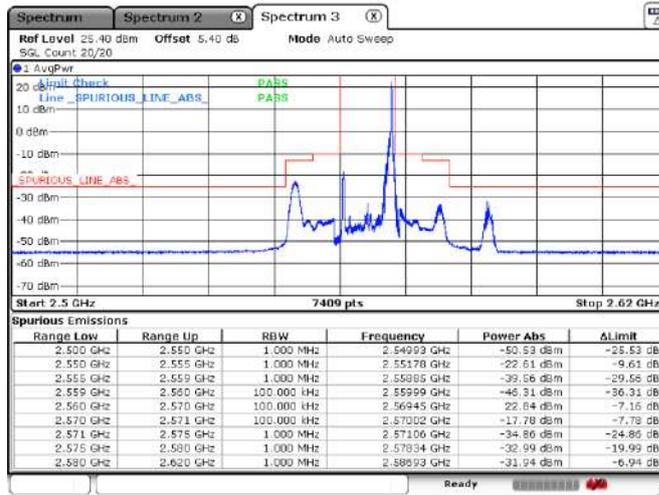
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Band7-10MHz-QPSK-21400-1RB#0



Date: 12 DEC.2019 07:12:36

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

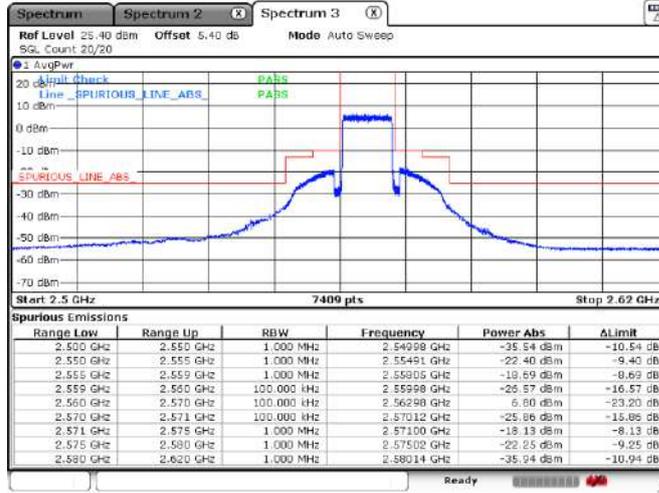


Date: 12 DEC.2019 07:13:22



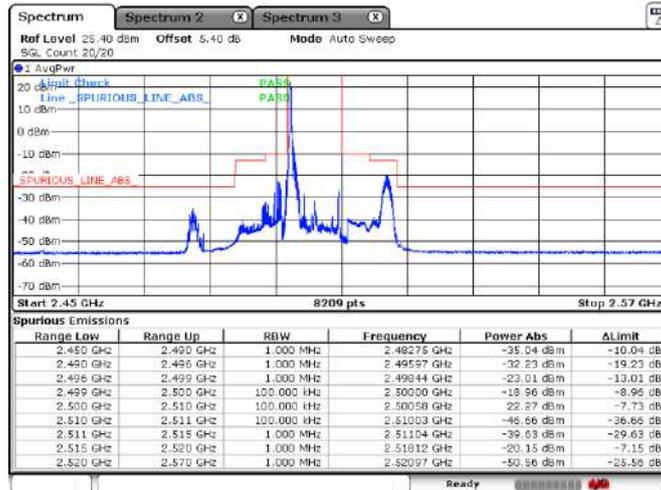
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Band7-10MHz-QPSK-21400-50RB#0



Date: 12 DEC 2019 07:13:51

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



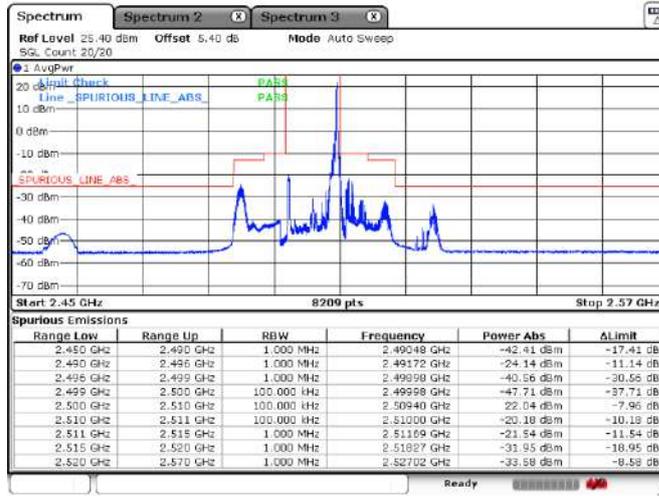
Date: 12 DEC 2019 07:07:35



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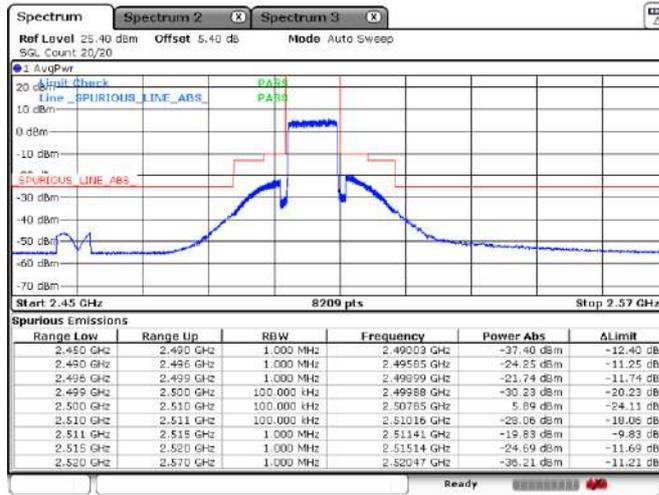
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Band7-10MHz-16QAM-20800-1RB#49



Date: 12 DEC 2019 07:09:37

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

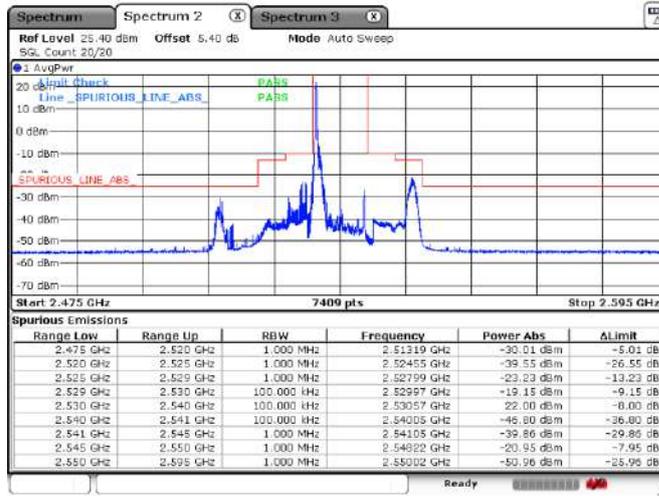


Date: 12 DEC 2019 07:10:06



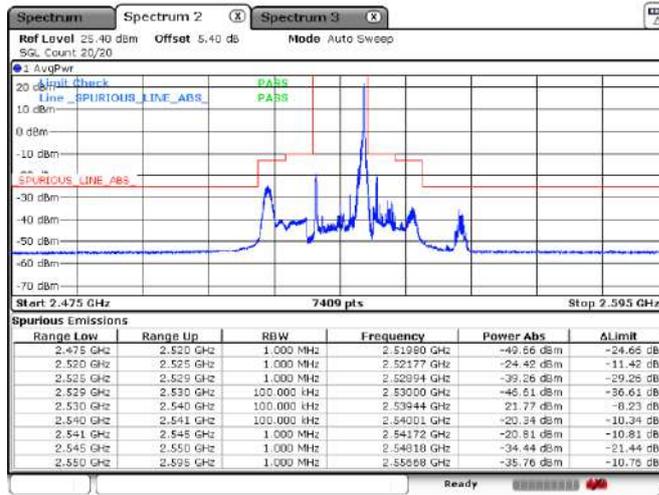
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Band7-10MHz-16QAM-21100-1RB#0



Date: 12 DEC 2019 07:10:52

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

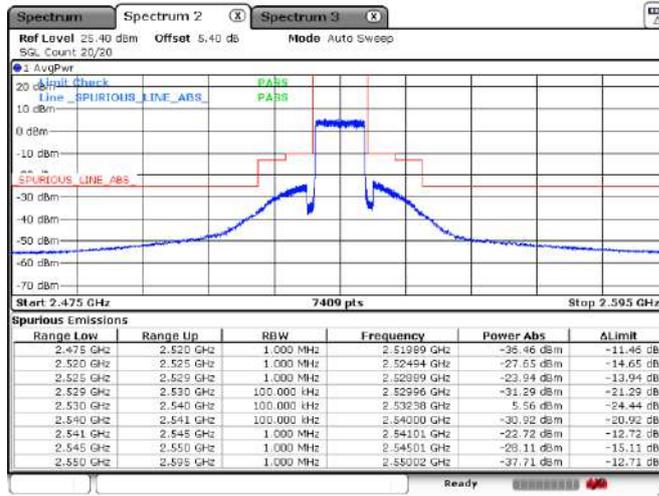


Date: 12 DEC 2019 07:11:26



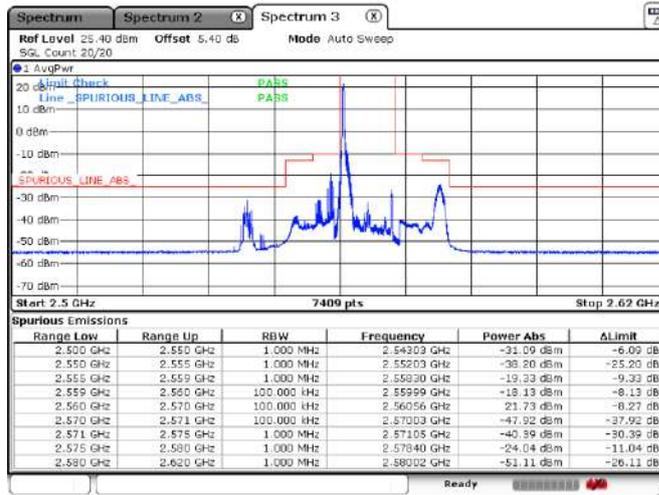
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Band7-10MHz-16QAM-21100-50RB#0



Date: 12 DEC 2019 07:11:56

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



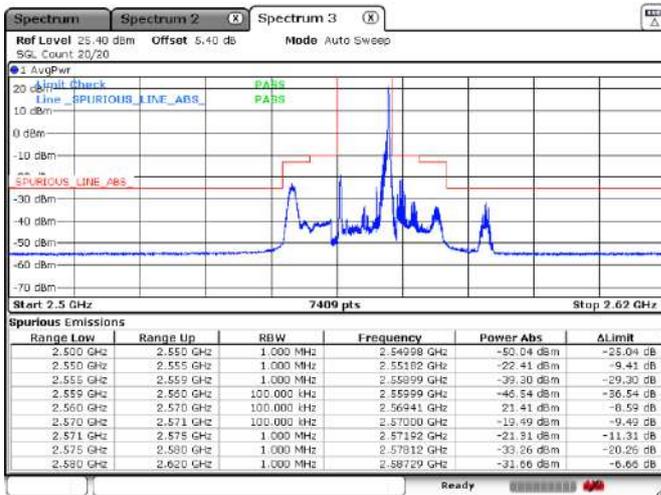
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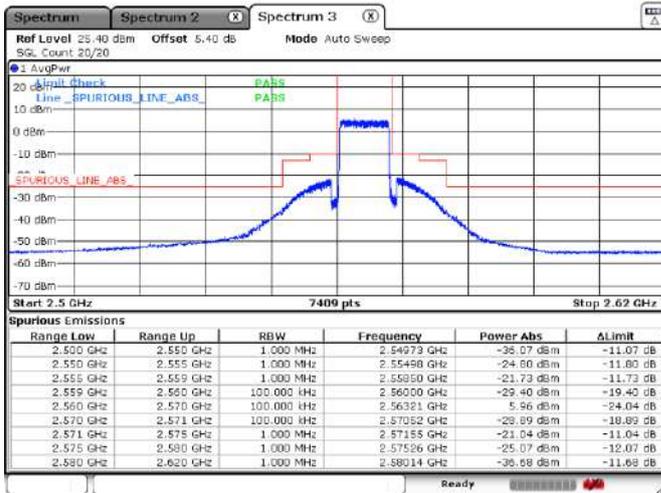
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Band7-10MHz-16QAM-21400-1RB#49



Date: 12 DEC 2019 07:13:34

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

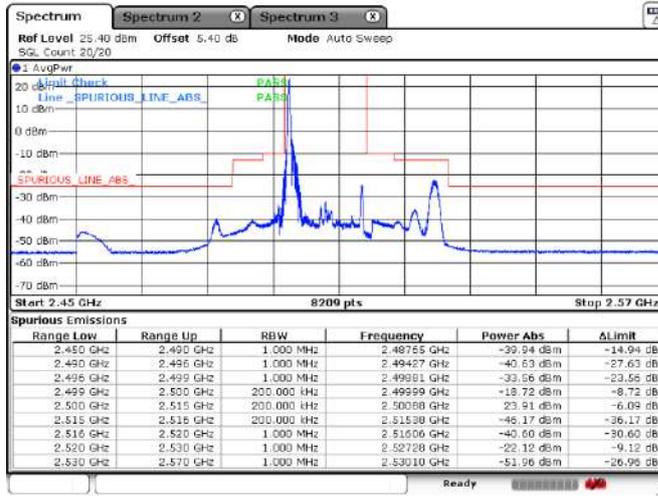


Date: 12 DEC 2019 07:14:02



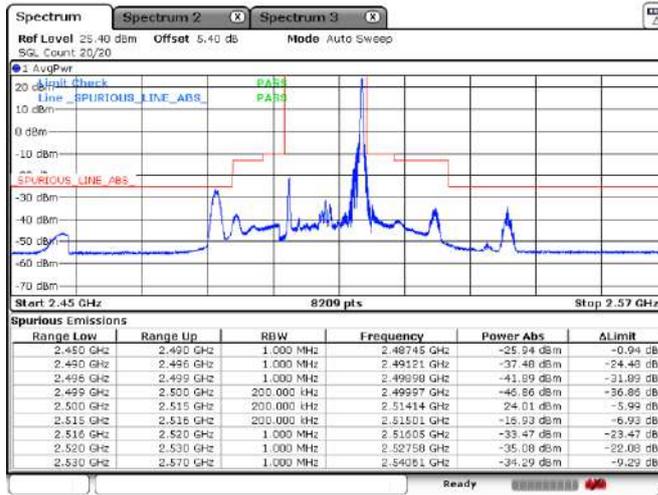
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Band7-15MHz-QPSK-20825-1RB#0



Date: 12 DEC 2019 08:53:07

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

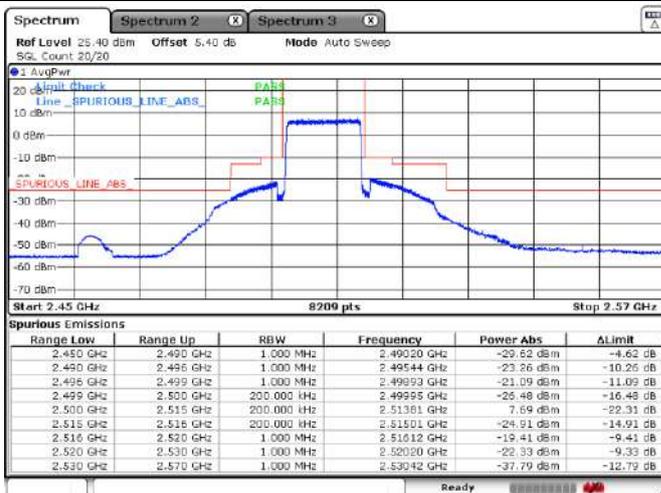


Date: 12 DEC 2019 07:15:37



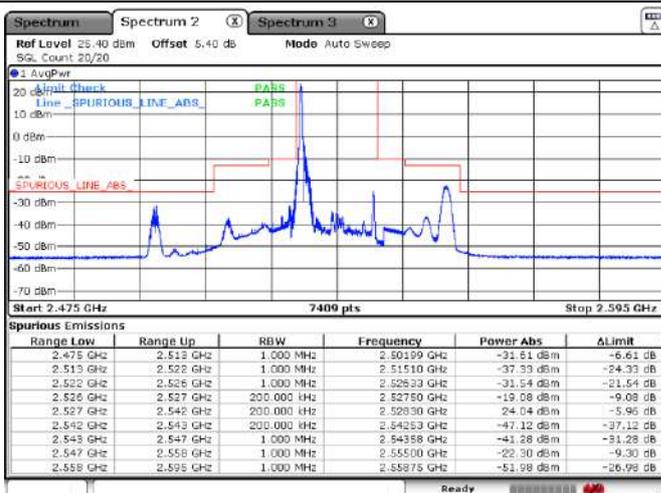
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Band7-15MHz-QPSK-20825-75RB#0



Date: 12 DEC 2019 07:16:17

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

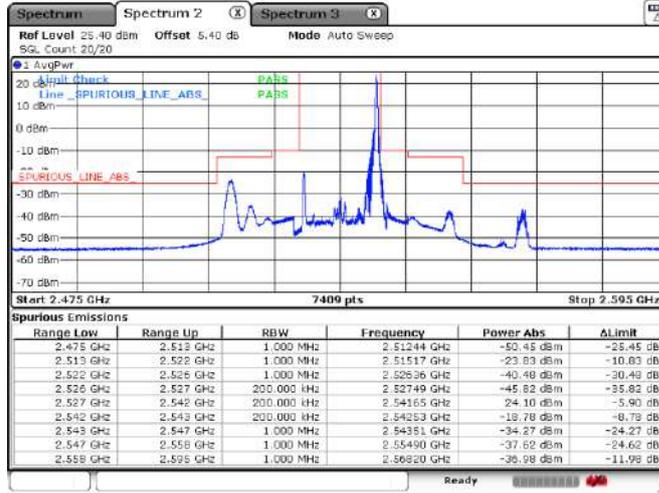


Date: 12 DEC 2019 07:16:54



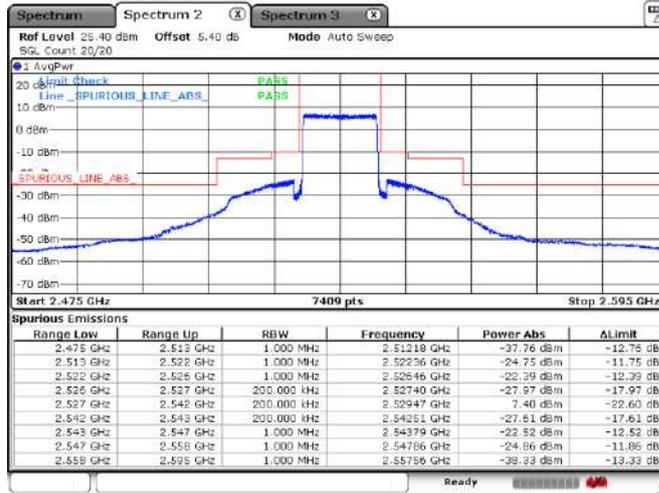
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Band7-15MHz-QPSK-21100-1RB#74



Date: 12 DEC 2019 07:17:25

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

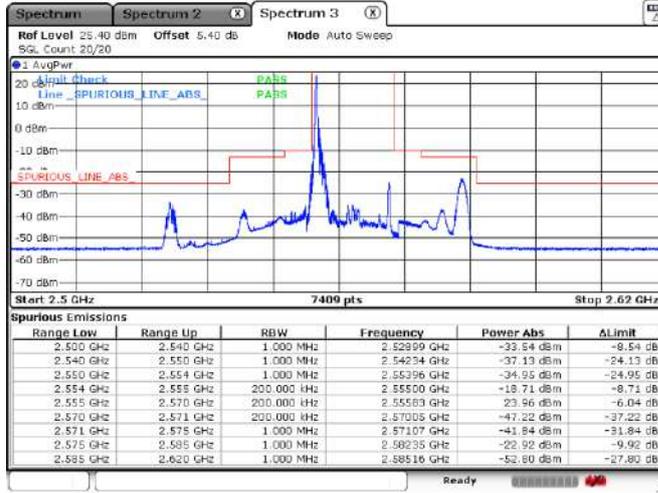


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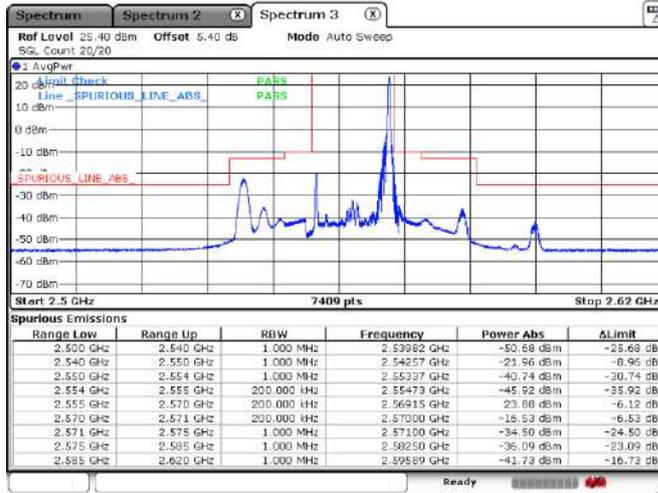
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Band7-15MHz-QPSK-21375-1RB#0



Date: 12 DEC.2019 07:19:12

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

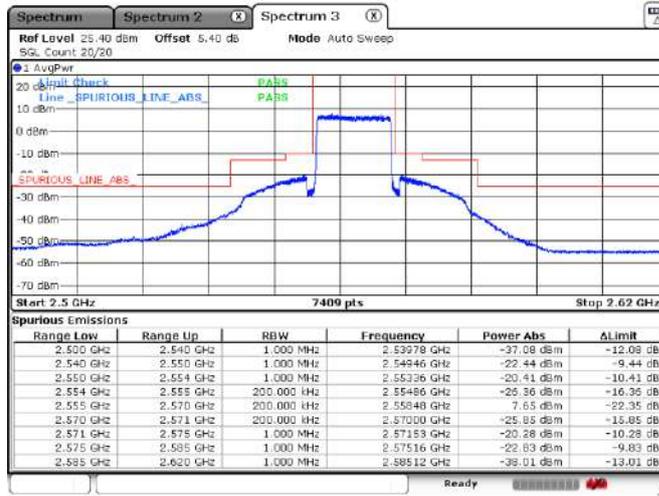


Date: 12 DEC.2019 07:19:42



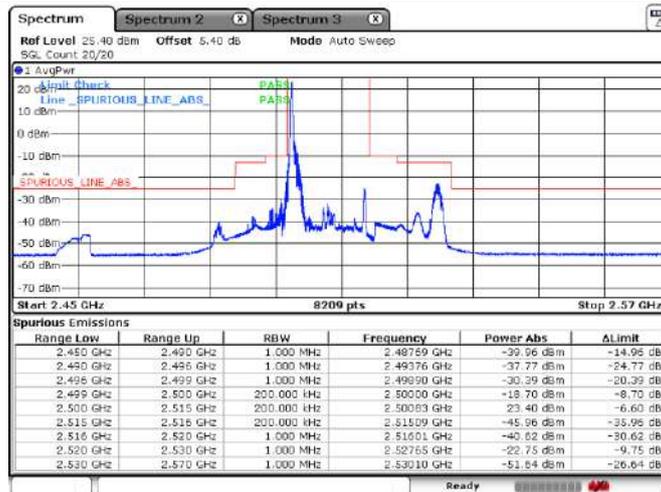
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Band7-15MHz-QPSK-21375-75RB#0



Date: 12 DEC 2019 07:20:16

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

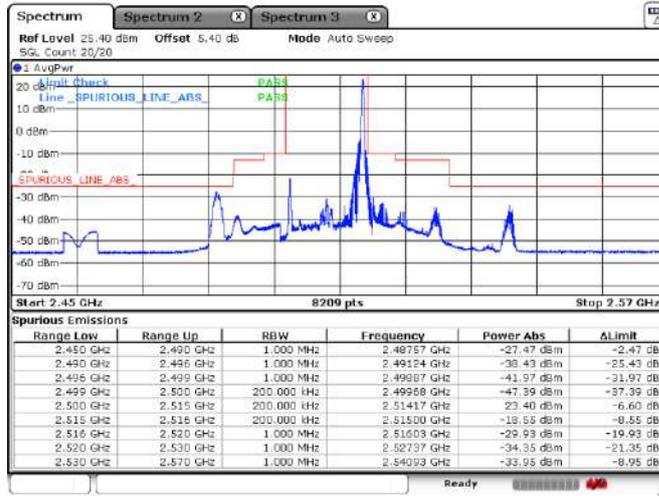


Date: 12 DEC 2019 08:53:25



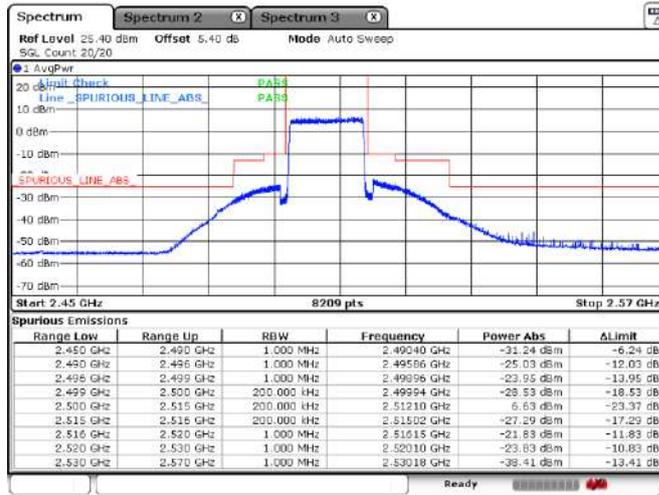
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Band7-15MHz-16QAM-20825-1RB#74



Date: 12 DEC 2019 07:16:03

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

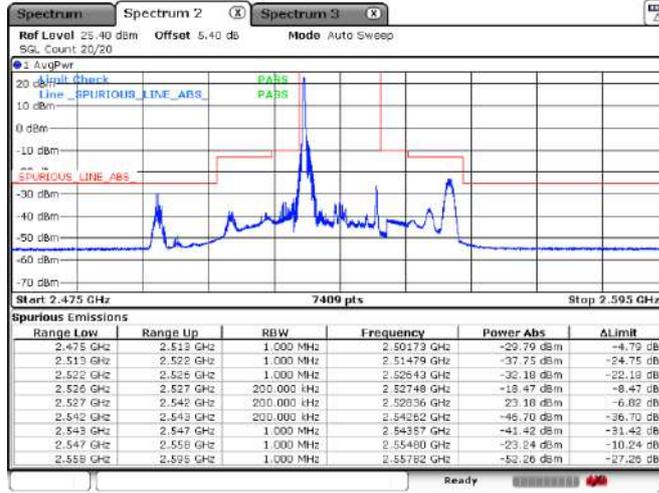


Date: 12 DEC 2019 07:16:27



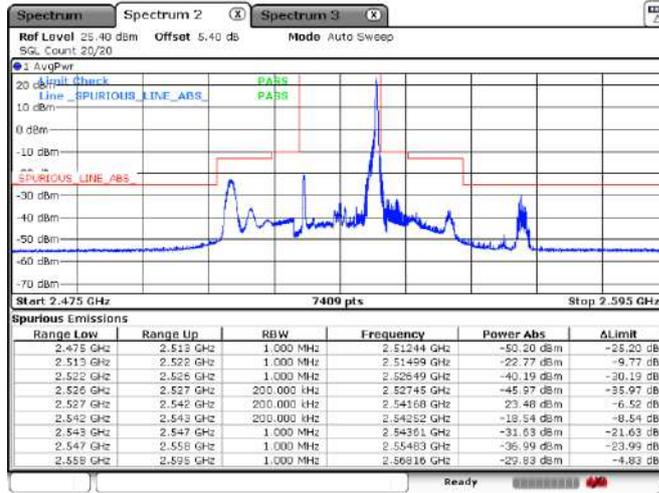
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Band7-15MHz-16QAM-21100-1RB#0



Date 12 DEC 2019 07:17:09

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

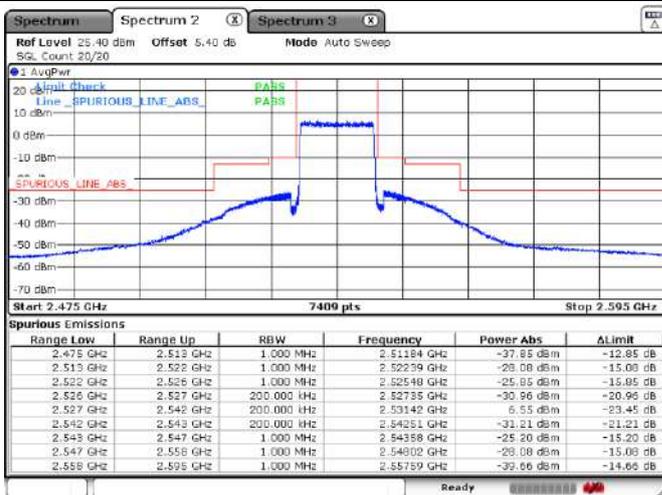


Date 12 DEC 2019 07:17:37



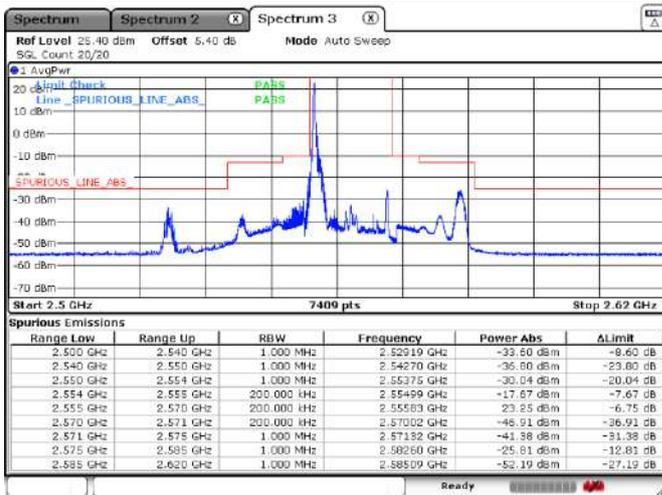
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Band7-15MHz-16QAM-21100-75RB#0



Date: 12 DEC 2019 07:16:06

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

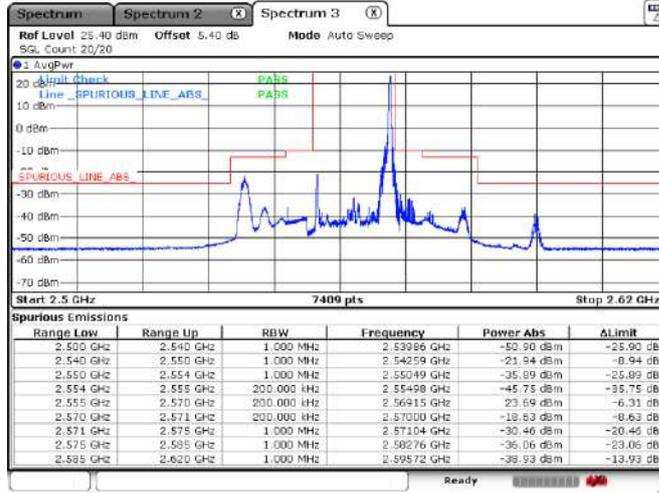


Date: 12 DEC 2019 07:19:26



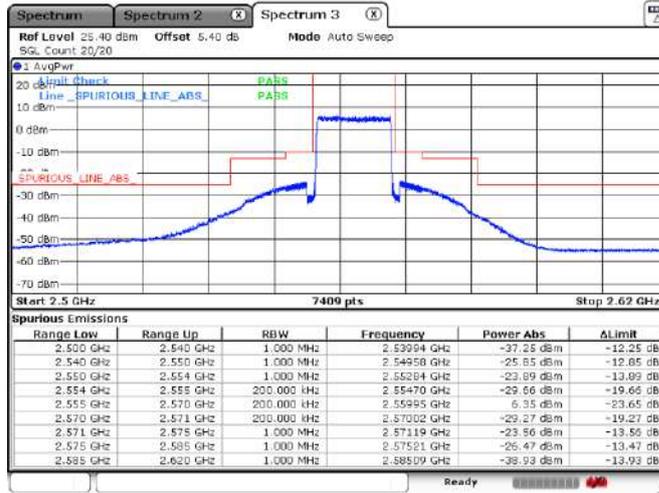
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Band7-15MHz-16QAM-21375-1RB#74



Date: 12 DEC 2019 07:19:54

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

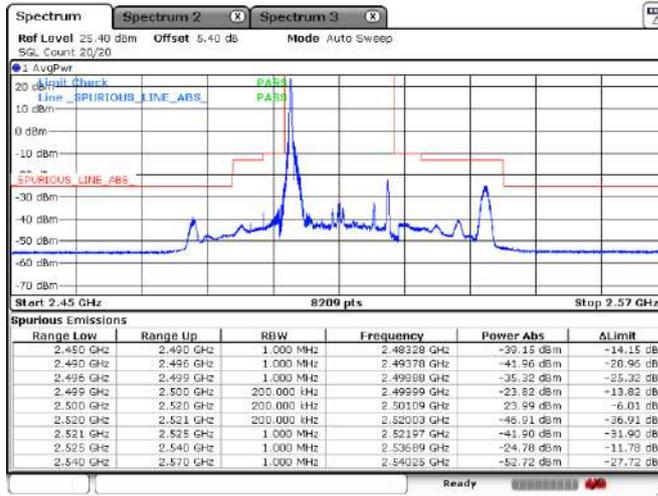


Date: 12 DEC 2019 07:20:36



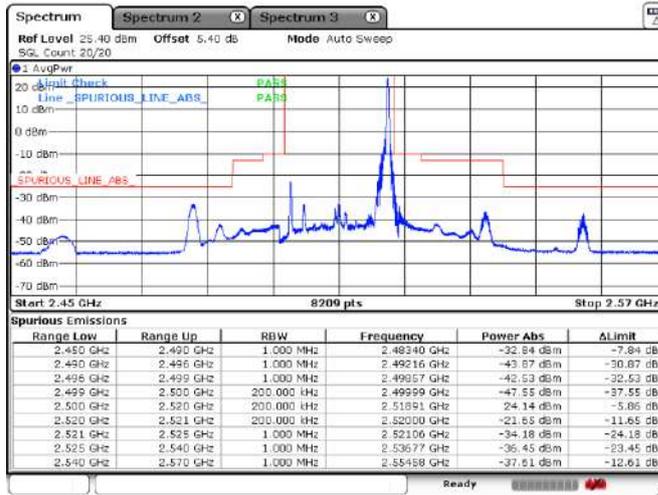
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Band7-20MHz-QPSK-20850-1RB#0



Date: 12 DEC 2019 07:21:41

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

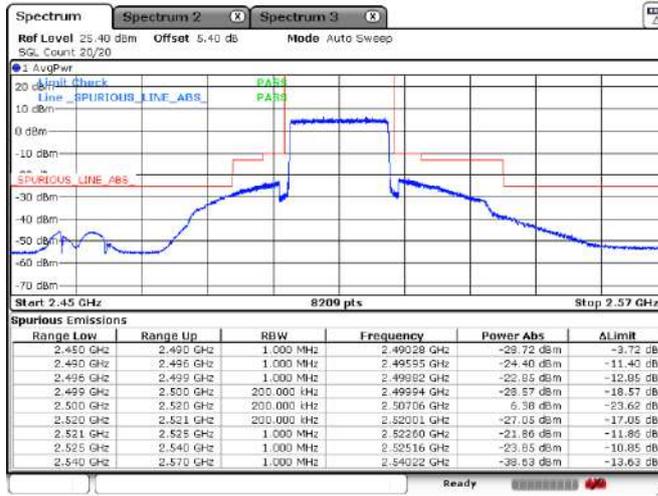


Date: 12 DEC 2019 07:22:16



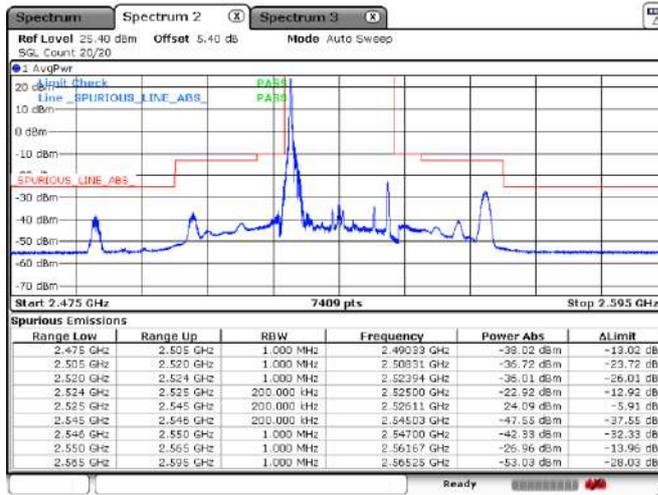
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Band7-20MHz-QPSK-20850-100RB#0



Date: 12 DEC 2019 07:22:45

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



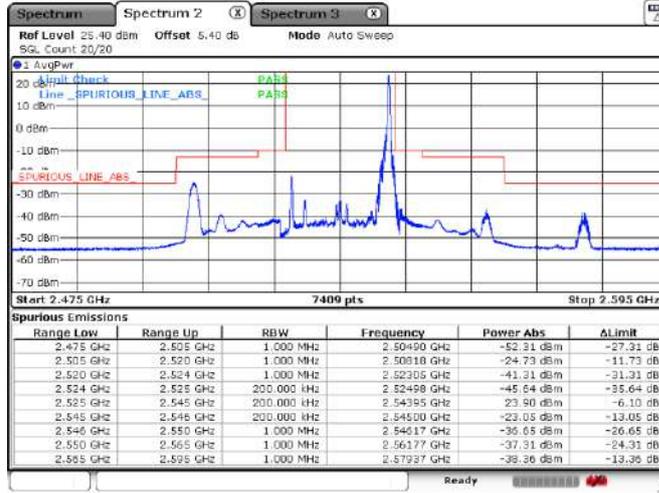
Date: 12 DEC 2019 07:23:29



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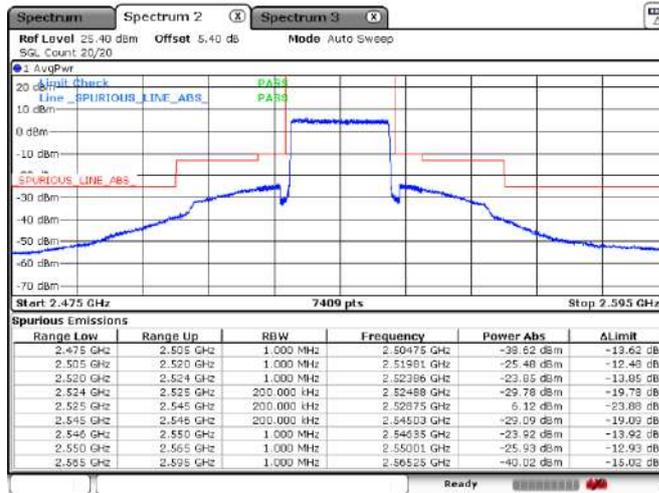


Band7-20MHz-QPSK-21100-1RB#99



Date: 12 DEC 2019 07:24:07

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



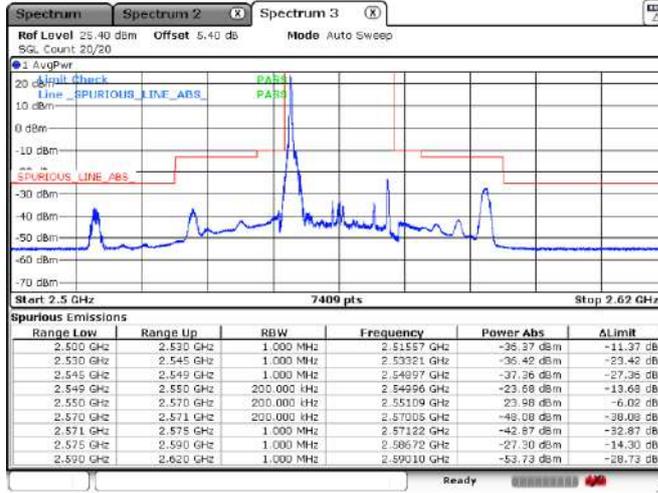
Date: 12 DEC 2019 07:24:35



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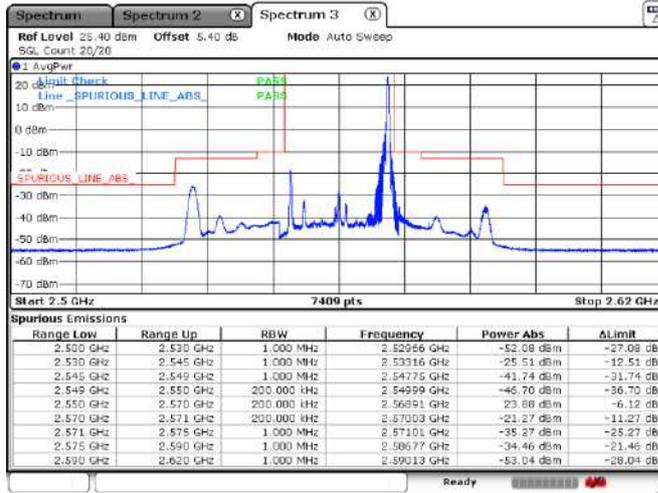
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Band7-20MHz-QPSK-21350-1RB#0



Date: 12 DEC.2019 07:26:16

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

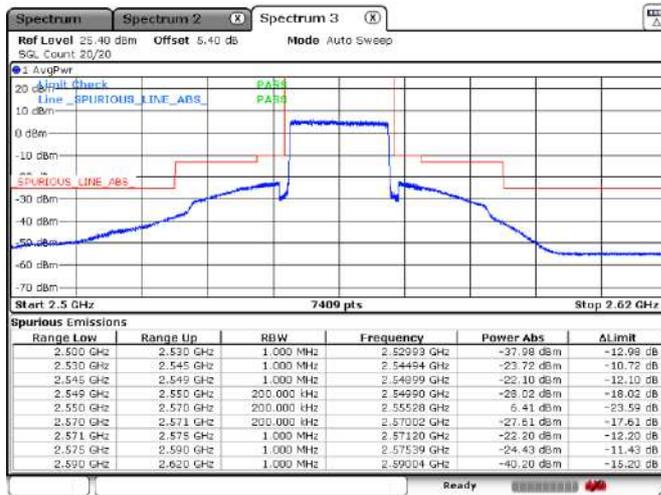


Date: 12 DEC.2019 07:26:50



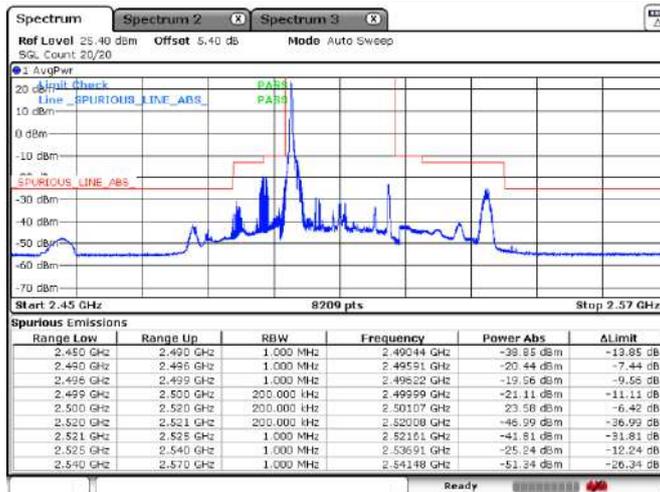
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Band7-20MHz-QPSK-21350-100RB#0



Date: 12 DEC 2019 07:27:25

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

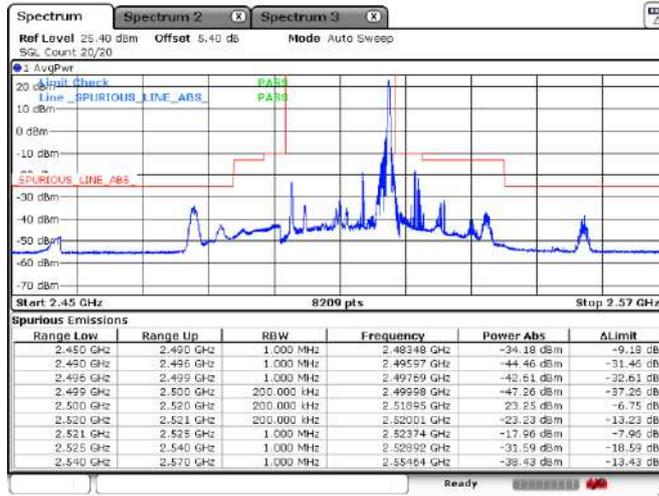


Date: 12 DEC 2019 07:22:04



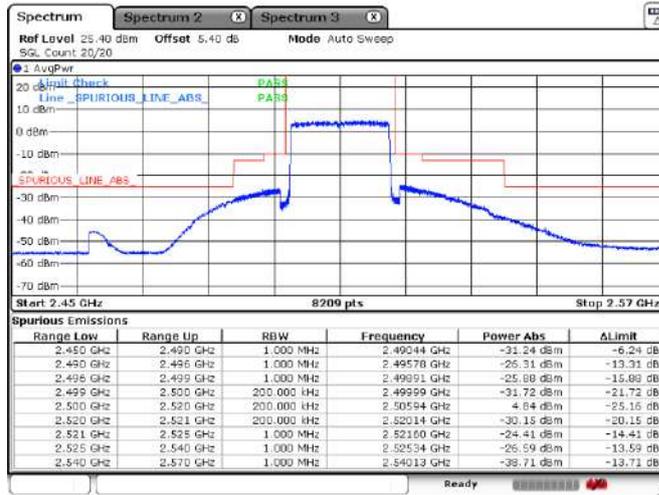
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Band7-20MHz-16QAM-20850-1RB#99



Date: 12 DEC 2019 07:22:29

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

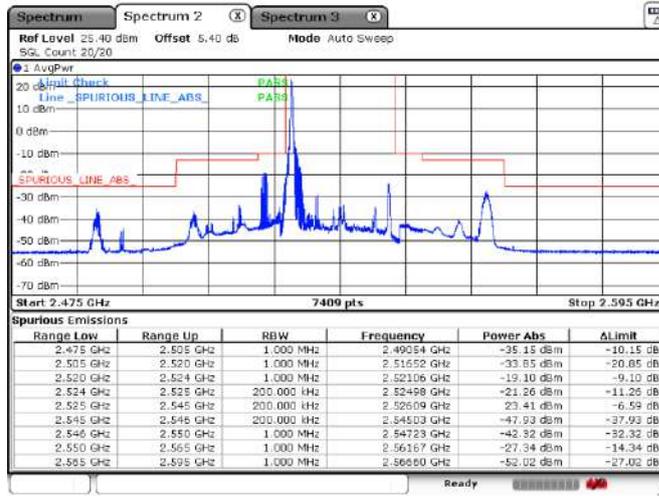


Date: 12 DEC 2019 07:22:56



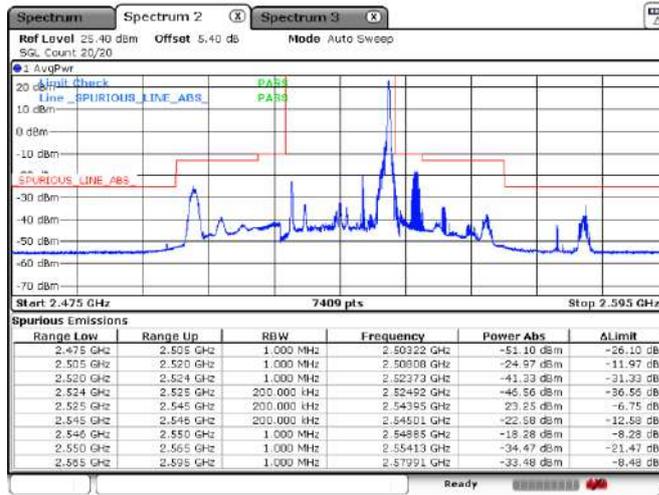
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Band7-20MHz-16QAM-21100-1RB#0



Date: 12 DEC 2019 07:23:41

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

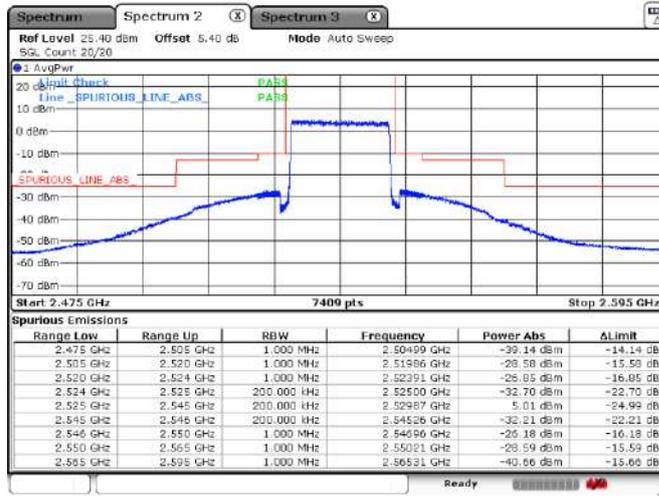


Date: 12 DEC 2019 07:24:26



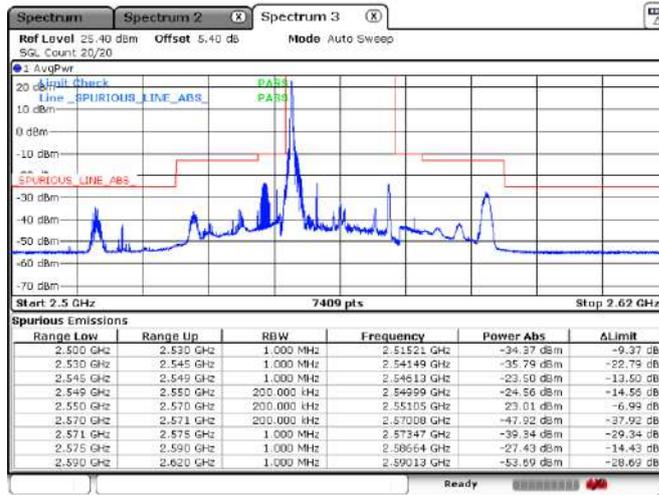
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Band7-20MHz-16QAM-21100-100RB#0



Date: 12 DEC 2019 07:25:44

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

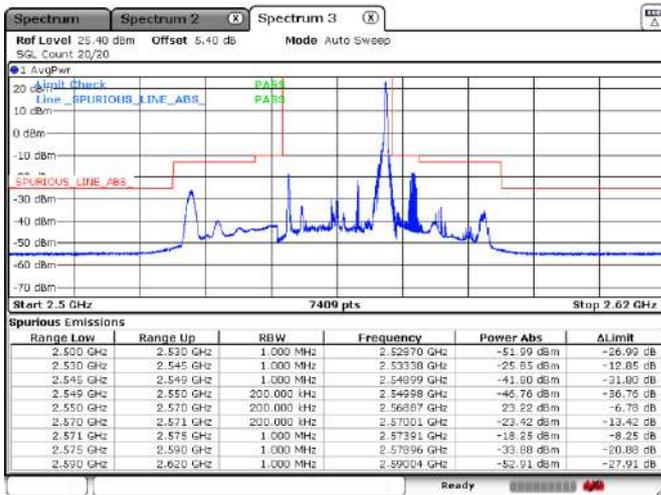


Date: 12 DEC 2019 07:26:35



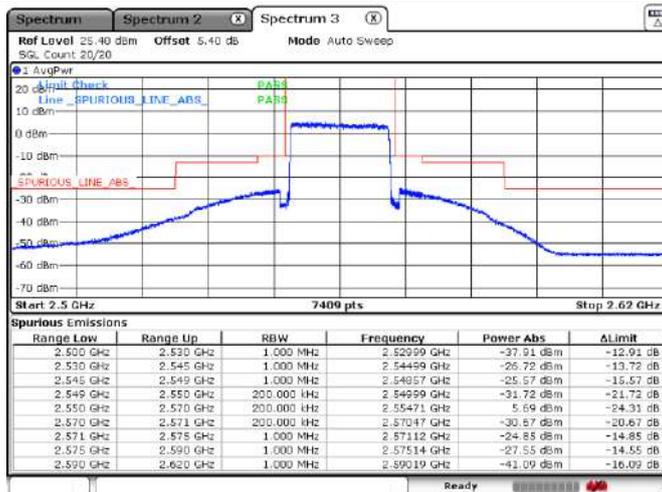
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Band7-20MHz-16QAM-21350-1RB#99



Date: 12 DEC 2019 07:27:01

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



Date: 12 DEC 2019 07:27:35

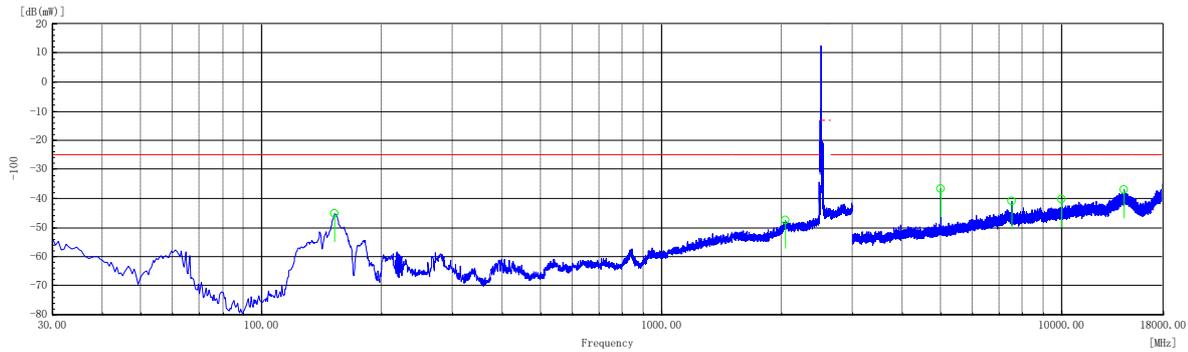


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7. Field Strength of Spurious Radiation

7.1. LTE Band 7 L channel (horizontal)



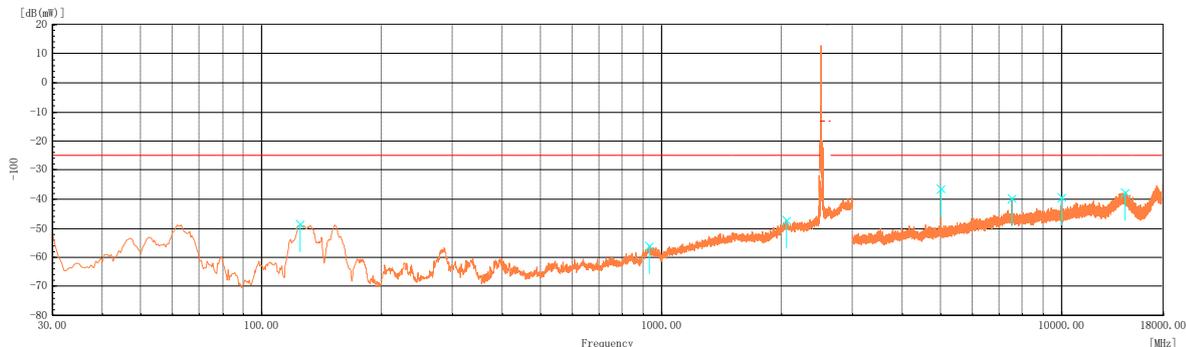
Frequency [MHz]	Pol	Level [dB μ V/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
152.5	H	50.0	-45.3	-25	20.3	153	45.4
2036.5	H	47.6	-47.7	-25	22.7	133	269.7
5002	H	58.7	-36.6	-25	11.6	106	135.7
7503.501	H	54.4	-40.9	-25	15.9	157	45.4
10004.5	H	54.9	-40.4	-25	15.4	142	45.4
14388	H	58.1	-37.2	-25	12.2	150	315.9



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7.2. LTE Band 7 L channel (vertical)



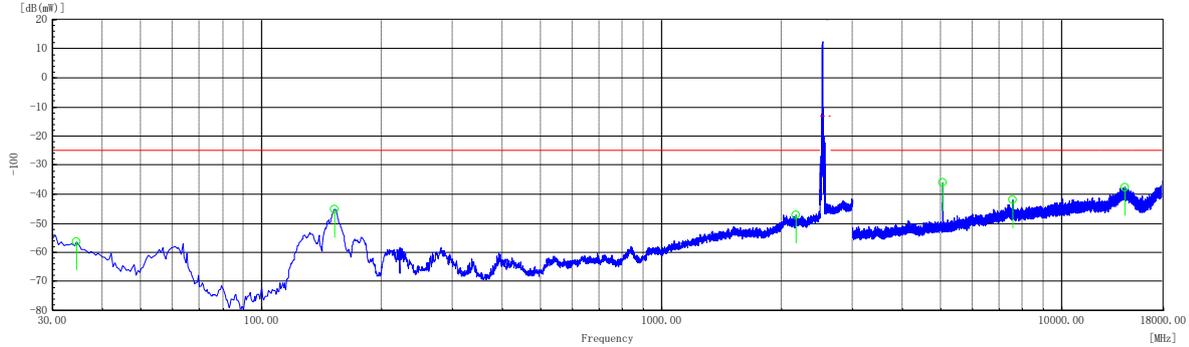
Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
124.5	V	46.6	-48.7	-25	23.7	103	134.6
932.5	V	39.1	-56.2	-25	31.2	177	134.6
2051	V	48.0	-47.3	-25	22.3	145	134.6
5002	V	58.8	-36.5	-25	11.5	164	89.7
7503.501	V	55.8	-39.5	-25	14.5	165	359.9
10004	V	55.8	-39.5	-25	14.5	121	179.5
14398	V	57.6	-37.7	-25	12.7	156	224.8



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7.3. LTE Band 7 M channel (horizontal)



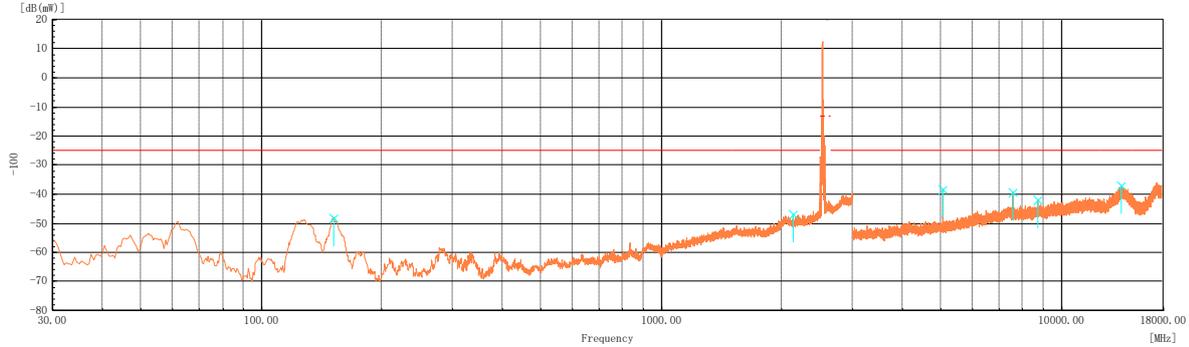
Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
34.5	H	39.0	-56.3	-25	31.3	141	315.9
152	H	50.2	-45.1	-25	20.1	173	45.5
2167.5	H	48.1	-47.2	-25	22.2	115	45.5
5052	H	59.1	-36.2	-25	11.2	173	135.3
7578.501	H	53.3	-42	-25	17	140	91.2
14463.5	H	57.6	-37.7	-25	12.7	103	225.5



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7.4. LTE Band 7 M channel (vertical)



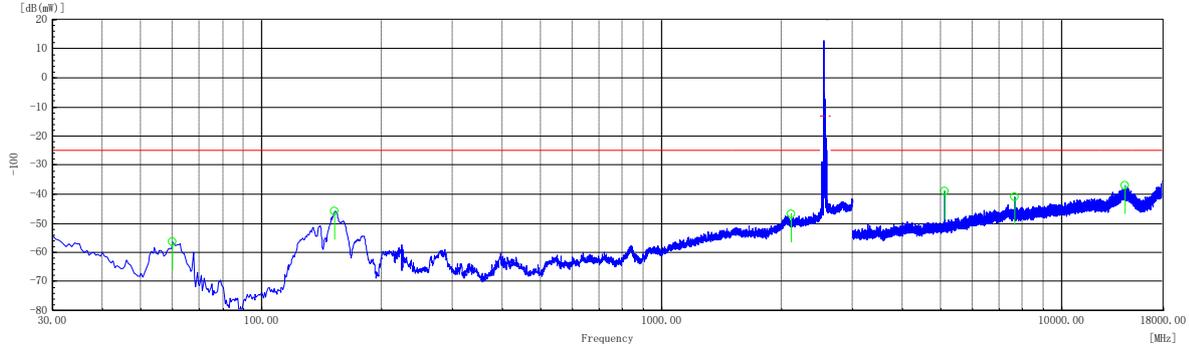
Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
151	V	47.1	-48.2	-25	23.2	169	44.3
2133	V	48.3	-47	-25	22	154	134.9
5052	V	57.0	-38.3	-25	13.3	128	89.2
7578.001	V	55.9	-39.4	-25	14.4	117	0.1
8746	V	53.5	-41.8	-25	16.8	131	0.1
14136	V	58.4	-36.9	-25	11.9	154	179.8



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7.5. LTE Band 7 H channel (horizontal)



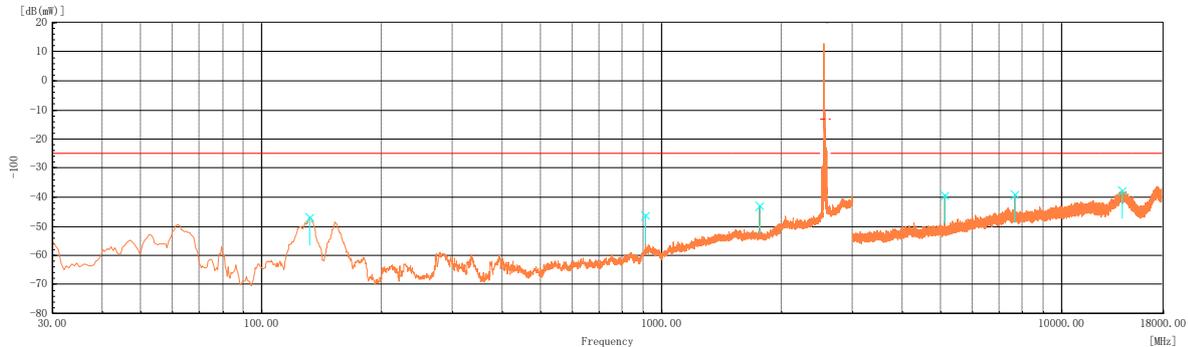
Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
60	H	38.9	-56.4	-25	31.4	178	91.5
152.5	H	49.5	-45.8	-25	20.8	155	0.1
2107	H	48.5	-46.8	-25	21.8	150	270.4
5102	H	56.4	-38.9	-25	13.9	176	135.2
7653.001	H	54.2	-41.1	-25	16.1	121	225.5
14425.5	H	58.4	-36.9	-25	11.9	139	135.2



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7.6. LTE Band 7 H channel (vertical)



Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
132	V	48.3	-47	-25	22	155	179.4
910.5	V	49.0	-46.3	-25	21.3	156	0.1
1755	V	52.3	-43	-25	18	123	179.4
5102	V	56.0	-39.3	-25	14.3	120	134.9
7653.501	V	56.2	-39.1	-25	14.1	166	0.1
14231.5	V	57.7	-37.6	-25	12.6	115	179.4

Note:

- 1) The disturbance above 18GHz and below 30MHz was very low at LTE Band7, and the above harmonics are the highest points could be found when testing, so only the worst case data had been displayed.
- 2) The disturbance below 30MHz was very low, and the above harmonics are the highest points could be found when testing, so only the worst case data had been displayed.
- 3) We have tested all modulation and Bandwidth, but only the worst case data presented 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



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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
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



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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

The End



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