



Appendix B

E-UTRA Band 41



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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
Band41	5MHz	QPSK	39675	1RB#0	22.74	26.81	33.00	PASS
Band41	5MHz	QPSK	39675	1RB#12	23.10	27.17	33.00	PASS
Band41	5MHz	QPSK	39675	1RB#24	22.97	27.04	33.00	PASS
Band41	5MHz	QPSK	39675	12RB#0	21.92	25.99	33.00	PASS
Band41	5MHz	QPSK	39675	12RB#6	21.93	26.00	33.00	PASS
Band41	5MHz	QPSK	39675	12RB#13	21.91	25.98	33.00	PASS
Band41	5MHz	QPSK	39675	25RB#0	21.85	25.92	33.00	PASS
Band41	5MHz	QPSK	40620	1RB#0	22.92	26.99	33.00	PASS
Band41	5MHz	QPSK	40620	1RB#12	23.44	27.51	33.00	PASS
Band41	5MHz	QPSK	40620	1RB#24	22.99	27.06	33.00	PASS
Band41	5MHz	QPSK	40620	12RB#0	22.07	26.14	33.00	PASS
Band41	5MHz	QPSK	40620	12RB#6	22.04	26.11	33.00	PASS
Band41	5MHz	QPSK	40620	12RB#13	21.99	26.06	33.00	PASS
Band41	5MHz	QPSK	40620	25RB#0	22.07	26.14	33.00	PASS
Band41	5MHz	QPSK	41565	1RB#0	23.14	27.21	33.00	PASS
Band41	5MHz	QPSK	41565	1RB#12	23.53	27.60	33.00	PASS
Band41	5MHz	QPSK	41565	1RB#24	23.16	27.23	33.00	PASS
Band41	5MHz	QPSK	41565	12RB#0	22.12	26.19	33.00	PASS
Band41	5MHz	QPSK	41565	12RB#6	22.14	26.21	33.00	PASS
Band41	5MHz	QPSK	41565	12RB#13	22.10	26.17	33.00	PASS
Band41	5MHz	QPSK	41565	25RB#0	22.15	26.22	33.00	PASS
Band41	5MHz	16QAM	39675	1RB#0	21.44	25.51	33.00	PASS
Band41	5MHz	16QAM	39675	1RB#12	21.70	25.77	33.00	PASS
Band41	5MHz	16QAM	39675	1RB#24	21.55	25.62	33.00	PASS
Band41	5MHz	16QAM	39675	12RB#0	20.89	24.96	33.00	PASS
Band41	5MHz	16QAM	39675	12RB#6	20.97	25.04	33.00	PASS
Band41	5MHz	16QAM	39675	12RB#13	20.97	25.04	33.00	PASS
Band41	5MHz	16QAM	39675	25RB#0	20.93	25.00	33.00	PASS
Band41	5MHz	16QAM	40620	1RB#0	21.55	25.62	33.00	PASS
Band41	5MHz	16QAM	40620	1RB#12	21.82	25.89	33.00	PASS
Band41	5MHz	16QAM	40620	1RB#24	21.60	25.67	33.00	PASS
Band41	5MHz	16QAM	40620	12RB#0	21.03	25.10	33.00	PASS



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Band41	5MHz	16QAM	40620	12RB#6	21.08	25.15	33.00	PASS
Band41	5MHz	16QAM	40620	12RB#13	21.00	25.07	33.00	PASS
Band41	5MHz	16QAM	40620	25RB#0	21.04	25.11	33.00	PASS
Band41	5MHz	16QAM	41565	1RB#0	21.62	25.69	33.00	PASS
Band41	5MHz	16QAM	41565	1RB#12	21.89	25.96	33.00	PASS
Band41	5MHz	16QAM	41565	1RB#24	21.54	25.61	33.00	PASS
Band41	5MHz	16QAM	41565	12RB#0	21.09	25.16	33.00	PASS
Band41	5MHz	16QAM	41565	12RB#6	21.18	25.25	33.00	PASS
Band41	5MHz	16QAM	41565	12RB#13	21.07	25.14	33.00	PASS
Band41	5MHz	16QAM	41565	25RB#0	21.13	25.20	33.00	PASS
Band41	10MHz	QPSK	39700	1RB#0	22.93	27.00	33.00	PASS
Band41	10MHz	QPSK	39700	1RB#24	23.12	27.19	33.00	PASS
Band41	10MHz	QPSK	39700	1RB#49	22.96	27.03	33.00	PASS
Band41	10MHz	QPSK	39700	25RB#0	21.99	26.06	33.00	PASS
Band41	10MHz	QPSK	39700	25RB#12	22.08	26.15	33.00	PASS
Band41	10MHz	QPSK	39700	25RB#25	21.94	26.01	33.00	PASS
Band41	10MHz	QPSK	39700	50RB#0	22.02	26.09	33.00	PASS
Band41	10MHz	QPSK	40620	1RB#0	23.04	27.11	33.00	PASS
Band41	10MHz	QPSK	40620	1RB#24	23.26	27.33	33.00	PASS
Band41	10MHz	QPSK	40620	1RB#49	22.99	27.06	33.00	PASS
Band41	10MHz	QPSK	40620	25RB#0	22.09	26.16	33.00	PASS
Band41	10MHz	QPSK	40620	25RB#12	22.13	26.20	33.00	PASS
Band41	10MHz	QPSK	40620	25RB#25	22.04	26.11	33.00	PASS
Band41	10MHz	QPSK	40620	50RB#0	22.12	26.19	33.00	PASS
Band41	10MHz	QPSK	41540	1RB#0	23.26	27.33	33.00	PASS
Band41	10MHz	QPSK	41540	1RB#24	23.44	27.51	33.00	PASS
Band41	10MHz	QPSK	41540	1RB#49	23.10	27.17	33.00	PASS
Band41	10MHz	QPSK	41540	25RB#0	22.26	26.33	33.00	PASS
Band41	10MHz	QPSK	41540	25RB#12	22.23	26.30	33.00	PASS
Band41	10MHz	QPSK	41540	25RB#25	22.15	26.22	33.00	PASS
Band41	10MHz	QPSK	41540	50RB#0	22.18	26.25	33.00	PASS
Band41	10MHz	16QAM	39700	1RB#0	21.46	25.53	33.00	PASS
Band41	10MHz	16QAM	39700	1RB#24	21.80	25.87	33.00	PASS
Band41	10MHz	16QAM	39700	1RB#49	21.50	25.57	33.00	PASS
Band41	10MHz	16QAM	39700	25RB#0	21.03	25.10	33.00	PASS
Band41	10MHz	16QAM	39700	25RB#12	21.05	25.12	33.00	PASS
Band41	10MHz	16QAM	39700	25RB#25	21.08	25.15	33.00	PASS
Band41	10MHz	16QAM	39700	50RB#0	20.90	24.97	33.00	PASS



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Band41	10MHz	16QAM	40620	1RB#0	21.49	25.56	33.00	PASS
Band41	10MHz	16QAM	40620	1RB#24	21.84	25.91	33.00	PASS
Band41	10MHz	16QAM	40620	1RB#49	21.53	25.60	33.00	PASS
Band41	10MHz	16QAM	40620	25RB#0	21.06	25.13	33.00	PASS
Band41	10MHz	16QAM	40620	25RB#12	21.08	25.15	33.00	PASS
Band41	10MHz	16QAM	40620	25RB#25	21.10	25.17	33.00	PASS
Band41	10MHz	16QAM	40620	50RB#0	20.93	25.00	33.00	PASS
Band41	10MHz	16QAM	41540	1RB#0	21.84	25.91	33.00	PASS
Band41	10MHz	16QAM	41540	1RB#24	21.94	26.01	33.00	PASS
Band41	10MHz	16QAM	41540	1RB#49	21.65	25.72	33.00	PASS
Band41	10MHz	16QAM	41540	25RB#0	21.24	25.31	33.00	PASS
Band41	10MHz	16QAM	41540	25RB#12	21.17	25.24	33.00	PASS
Band41	10MHz	16QAM	41540	25RB#25	21.15	25.22	33.00	PASS
Band41	10MHz	16QAM	41540	50RB#0	21.03	25.10	33.00	PASS
Band41	15MHz	QPSK	39725	1RB#0	22.71	26.78	33.00	PASS
Band41	15MHz	QPSK	39725	1RB#38	22.83	26.90	33.00	PASS
Band41	15MHz	QPSK	39725	1RB#74	22.83	26.90	33.00	PASS
Band41	15MHz	QPSK	39725	36RB#0	21.96	26.03	33.00	PASS
Band41	15MHz	QPSK	39725	36RB#18	21.96	26.03	33.00	PASS
Band41	15MHz	QPSK	39725	36RB#39	21.96	26.03	33.00	PASS
Band41	15MHz	QPSK	39725	75RB#0	21.94	26.01	33.00	PASS
Band41	15MHz	QPSK	40620	1RB#0	22.91	26.98	33.00	PASS
Band41	15MHz	QPSK	40620	1RB#38	23.02	27.09	33.00	PASS
Band41	15MHz	QPSK	40620	1RB#74	22.94	27.01	33.00	PASS
Band41	15MHz	QPSK	40620	36RB#0	22.08	26.15	33.00	PASS
Band41	15MHz	QPSK	40620	36RB#18	22.16	26.23	33.00	PASS
Band41	15MHz	QPSK	40620	36RB#39	22.10	26.17	33.00	PASS
Band41	15MHz	QPSK	40620	75RB#0	22.10	26.17	33.00	PASS
Band41	15MHz	QPSK	41515	1RB#0	23.23	27.30	33.00	PASS
Band41	15MHz	QPSK	41515	1RB#38	23.14	27.21	33.00	PASS
Band41	15MHz	QPSK	41515	1RB#74	23.05	27.12	33.00	PASS
Band41	15MHz	QPSK	41515	36RB#0	22.23	26.30	33.00	PASS
Band41	15MHz	QPSK	41515	36RB#18	22.26	26.33	33.00	PASS
Band41	15MHz	QPSK	41515	36RB#39	22.17	26.24	33.00	PASS
Band41	15MHz	QPSK	41515	75RB#0	22.23	26.30	33.00	PASS
Band41	15MHz	16QAM	39725	1RB#0	21.37	25.44	33.00	PASS
Band41	15MHz	16QAM	39725	1RB#38	21.30	25.37	33.00	PASS
Band41	15MHz	16QAM	39725	1RB#74	21.54	25.61	33.00	PASS



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Band41	15MHz	16QAM	39725	36RB#0	20.96	25.03	33.00	PASS
Band41	15MHz	16QAM	39725	36RB#18	20.99	25.06	33.00	PASS
Band41	15MHz	16QAM	39725	36RB#39	21.11	25.18	33.00	PASS
Band41	15MHz	16QAM	39725	75RB#0	20.85	24.92	33.00	PASS
Band41	15MHz	16QAM	40620	1RB#0	21.45	25.52	33.00	PASS
Band41	15MHz	16QAM	40620	1RB#38	21.47	25.54	33.00	PASS
Band41	15MHz	16QAM	40620	1RB#74	21.66	25.73	33.00	PASS
Band41	15MHz	16QAM	40620	36RB#0	20.97	25.04	33.00	PASS
Band41	15MHz	16QAM	40620	36RB#18	20.98	25.05	33.00	PASS
Band41	15MHz	16QAM	40620	36RB#39	21.18	25.25	33.00	PASS
Band41	15MHz	16QAM	40620	75RB#0	21.01	25.08	33.00	PASS
Band41	15MHz	16QAM	41515	1RB#0	21.62	25.69	33.00	PASS
Band41	15MHz	16QAM	41515	1RB#38	21.57	25.64	33.00	PASS
Band41	15MHz	16QAM	41515	1RB#74	21.71	25.78	33.00	PASS
Band41	15MHz	16QAM	41515	36RB#0	21.17	25.24	33.00	PASS
Band41	15MHz	16QAM	41515	36RB#18	21.15	25.22	33.00	PASS
Band41	15MHz	16QAM	41515	36RB#39	21.13	25.20	33.00	PASS
Band41	15MHz	16QAM	41515	75RB#0	21.21	25.28	33.00	PASS
Band41	20MHz	QPSK	39750	1RB#0	22.69	26.76	33.00	PASS
Band41	20MHz	QPSK	39750	1RB#49	23.14	27.21	33.00	PASS
Band41	20MHz	QPSK	39750	1RB#99	22.78	26.85	33.00	PASS
Band41	20MHz	QPSK	39750	50RB#0	21.92	25.99	33.00	PASS
Band41	20MHz	QPSK	39750	50RB#25	22.08	26.15	33.00	PASS
Band41	20MHz	QPSK	39750	50RB#50	21.96	26.03	33.00	PASS
Band41	20MHz	QPSK	39750	100RB#0	21.92	25.99	33.00	PASS
Band41	20MHz	QPSK	40620	1RB#0	22.95	27.02	33.00	PASS
Band41	20MHz	QPSK	40620	1RB#49	23.27	27.34	33.00	PASS
Band41	20MHz	QPSK	40620	1RB#99	22.95	27.02	33.00	PASS
Band41	20MHz	QPSK	40620	50RB#0	22.10	26.17	33.00	PASS
Band41	20MHz	QPSK	40620	50RB#25	22.17	26.24	33.00	PASS
Band41	20MHz	QPSK	40620	50RB#50	22.13	26.20	33.00	PASS
Band41	20MHz	QPSK	40620	100RB#0	22.10	26.17	33.00	PASS
Band41	20MHz	QPSK	41490	1RB#0	23.17	27.24	33.00	PASS
Band41	20MHz	QPSK	41490	1RB#49	23.35	27.42	33.00	PASS
Band41	20MHz	QPSK	41490	1RB#99	23.15	27.22	33.00	PASS
Band41	20MHz	QPSK	41490	50RB#0	22.18	26.25	33.00	PASS
Band41	20MHz	QPSK	41490	50RB#25	22.25	26.32	33.00	PASS
Band41	20MHz	QPSK	41490	50RB#50	22.23	26.30	33.00	PASS



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Band41	20MHz	QPSK	41490	100RB#0	22.26	26.33	33.00	PASS
Band41	20MHz	16QAM	39750	1RB#0	21.28	25.35	33.00	PASS
Band41	20MHz	16QAM	39750	1RB#49	21.68	25.75	33.00	PASS
Band41	20MHz	16QAM	39750	1RB#99	21.38	25.45	33.00	PASS
Band41	20MHz	16QAM	39750	50RB#0	20.80	24.87	33.00	PASS
Band41	20MHz	16QAM	39750	50RB#25	20.91	24.98	33.00	PASS
Band41	20MHz	16QAM	39750	50RB#50	20.89	24.96	33.00	PASS
Band41	20MHz	16QAM	39750	100RB#0	20.87	24.94	33.00	PASS
Band41	20MHz	16QAM	40620	1RB#0	21.41	25.48	33.00	PASS
Band41	20MHz	16QAM	40620	1RB#49	21.86	25.93	33.00	PASS
Band41	20MHz	16QAM	40620	1RB#99	21.45	25.52	33.00	PASS
Band41	20MHz	16QAM	40620	50RB#0	20.91	24.98	33.00	PASS
Band41	20MHz	16QAM	40620	50RB#25	20.97	25.04	33.00	PASS
Band41	20MHz	16QAM	40620	50RB#50	20.99	25.06	33.00	PASS
Band41	20MHz	16QAM	40620	100RB#0	21.07	25.14	33.00	PASS
Band41	20MHz	16QAM	41490	1RB#0	21.78	25.85	33.00	PASS
Band41	20MHz	16QAM	41490	1RB#49	21.89	25.96	33.00	PASS
Band41	20MHz	16QAM	41490	1RB#99	21.59	25.66	33.00	PASS
Band41	20MHz	16QAM	41490	50RB#0	21.03	25.10	33.00	PASS
Band41	20MHz	16QAM	41490	50RB#25	21.06	25.13	33.00	PASS
Band41	20MHz	16QAM	41490	50RB#50	21.07	25.14	33.00	PASS
Band41	20MHz	16QAM	41490	100RB#0	21.15	25.22	33.00	PASS

Remark:

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

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

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



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Shenzhen Branch (CCC Laboratory)

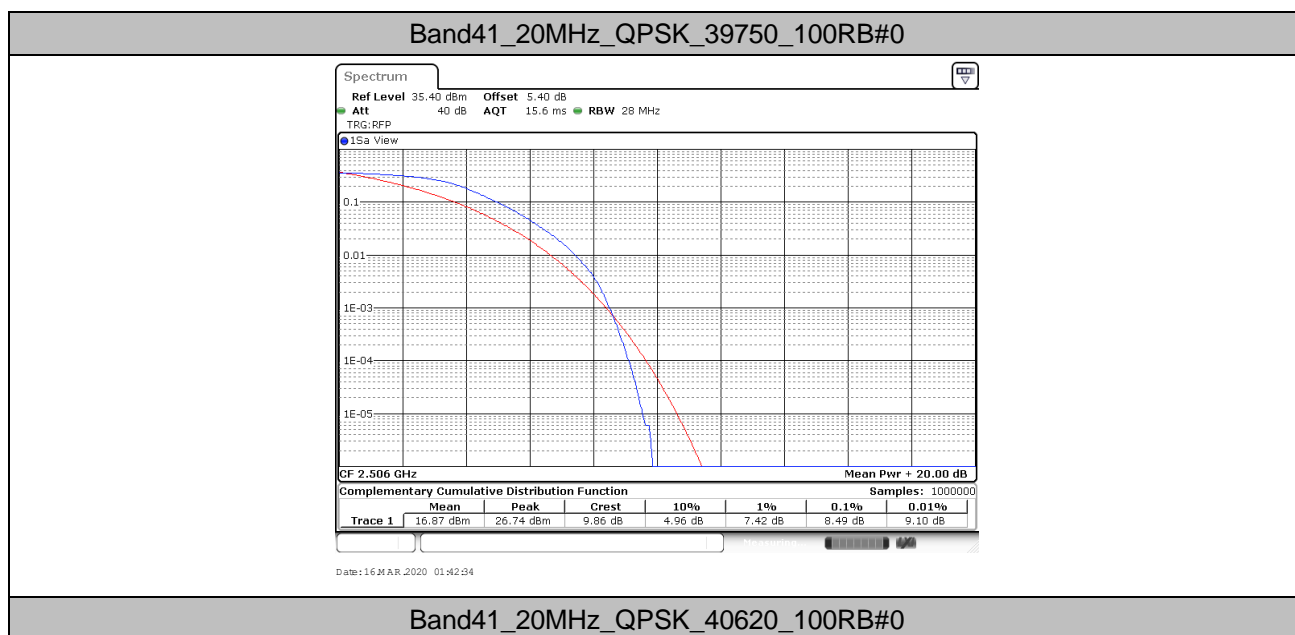
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

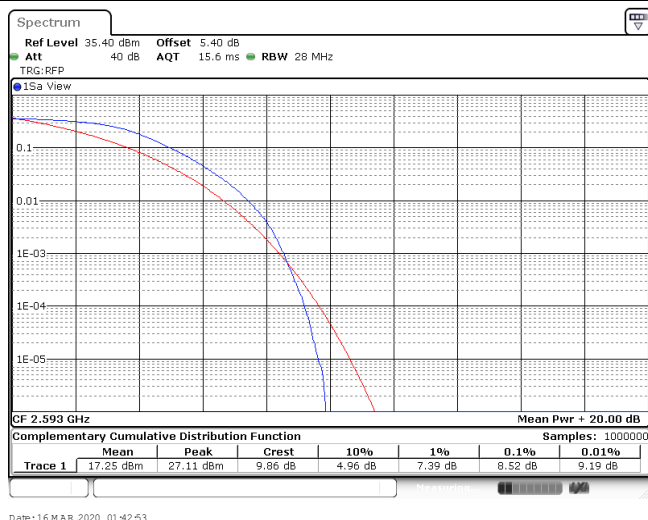
2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

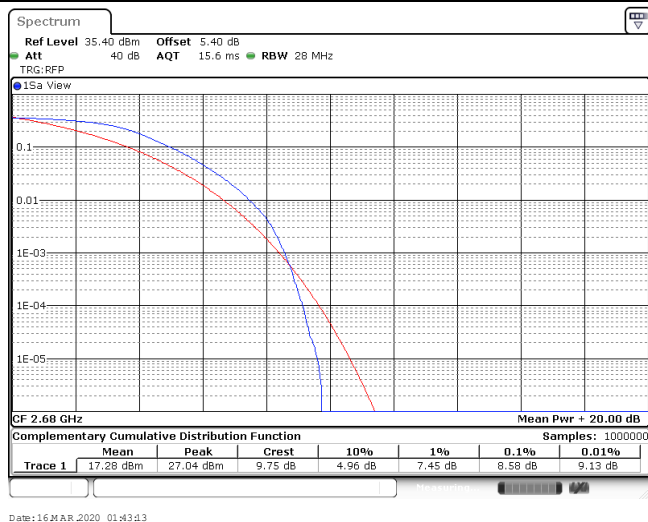
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band41	20MHz	QPSK	39750	100RB#0	8.49	13.00	PASS
Band41	20MHz	QPSK	40620	100RB#0	8.52	13.00	PASS
Band41	20MHz	QPSK	41490	100RB#0	8.58	13.00	PASS
Band41	20MHz	16QAM	39750	100RB#0	9.39	13.00	PASS
Band41	20MHz	16QAM	40620	100RB#0	9.42	13.00	PASS
Band41	20MHz	16QAM	41490	100RB#0	9.48	13.00	PASS

2.2. Test Plots



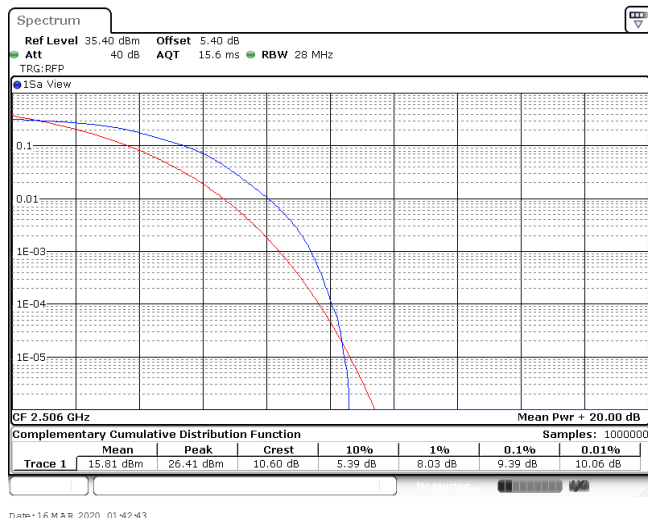


Band41_20MHz_QPSK_41490_100RB#0

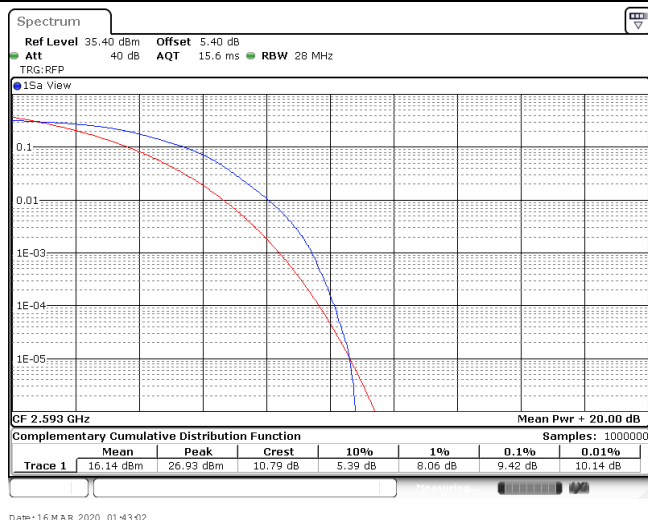


Band41_20MHz_16QAM_39750_100RB#0





Band41_20MHz_16QAM_40620_100RB#0

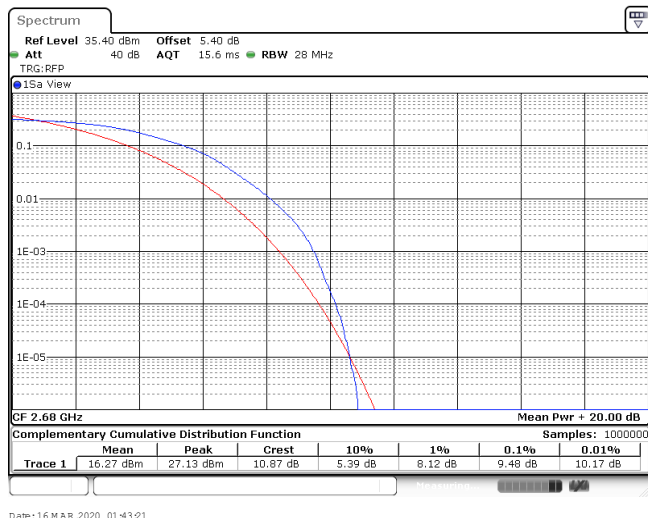


Band41_20MHz_16QAM_41490_100RB#0



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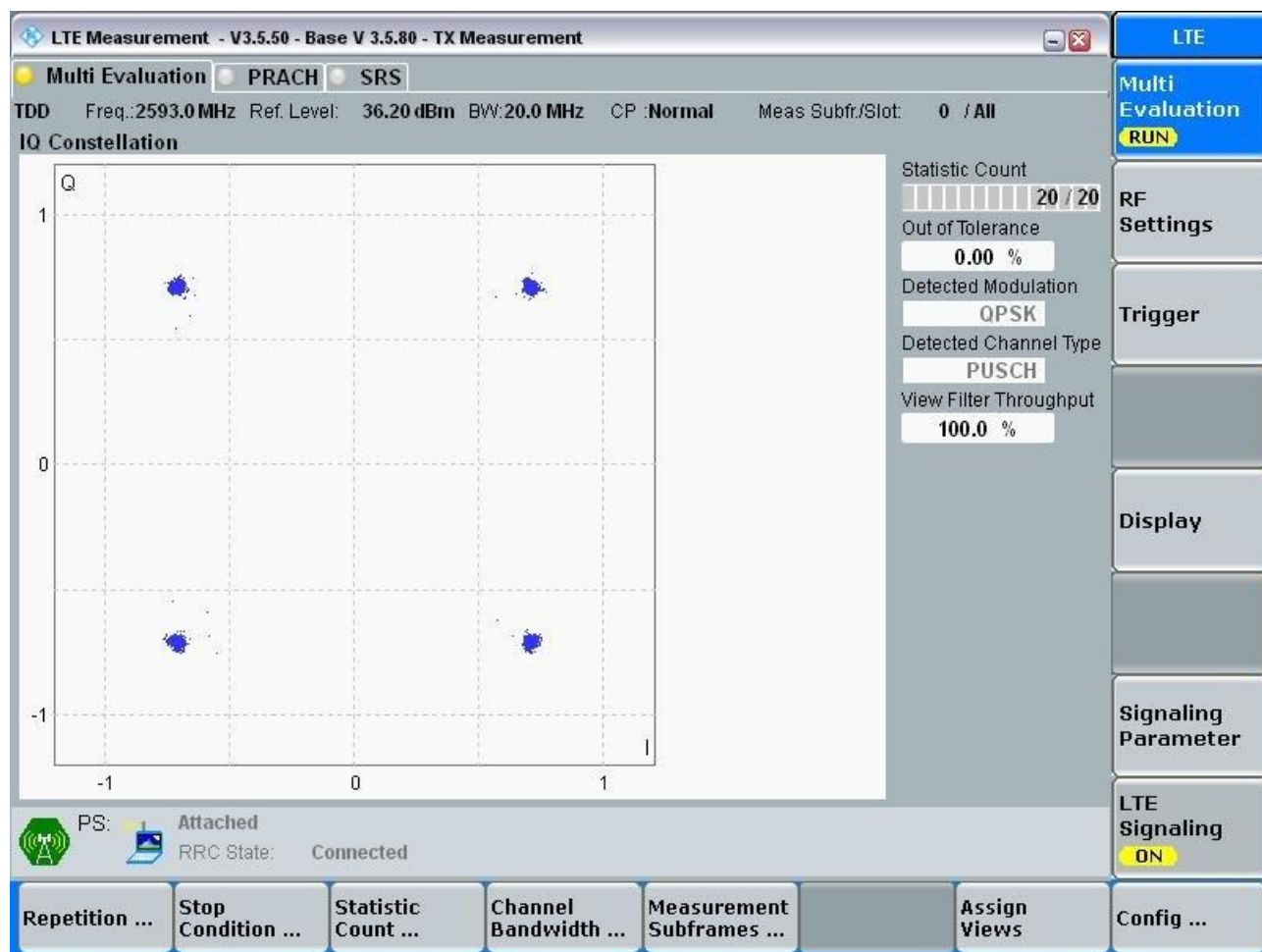
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3. Modulation Characteristics

3.1. Test Band = LTE Band 41

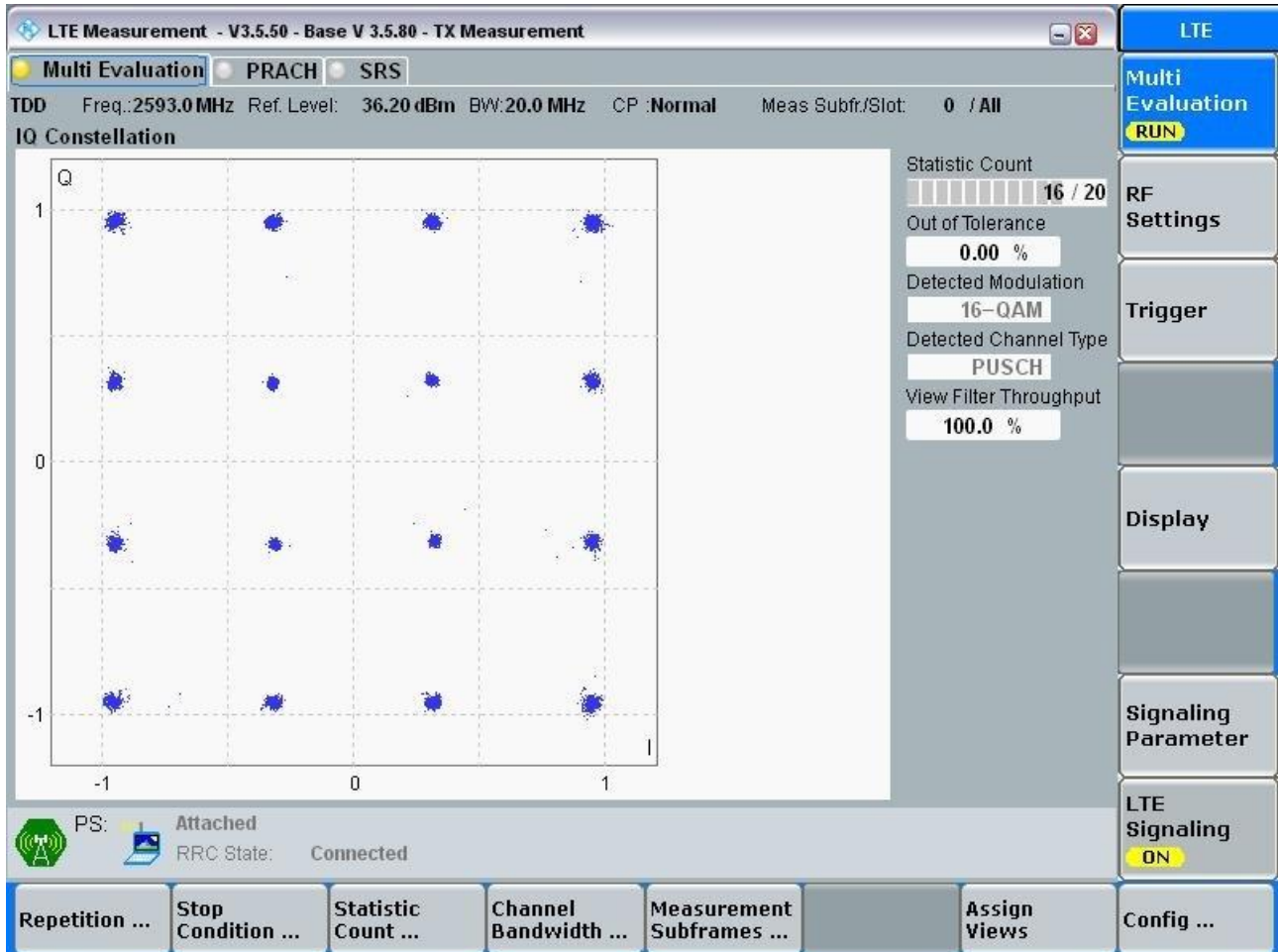
3.2. Test Mode = LTE /TM1 20MHz

3.2.1. Test Channel = MCH



3.3. Test Mode = LTE /TM2 20MHz

3.3.1. Test Channel = MCH





4. 26dB Bandwidth and Occupied Bandwidth

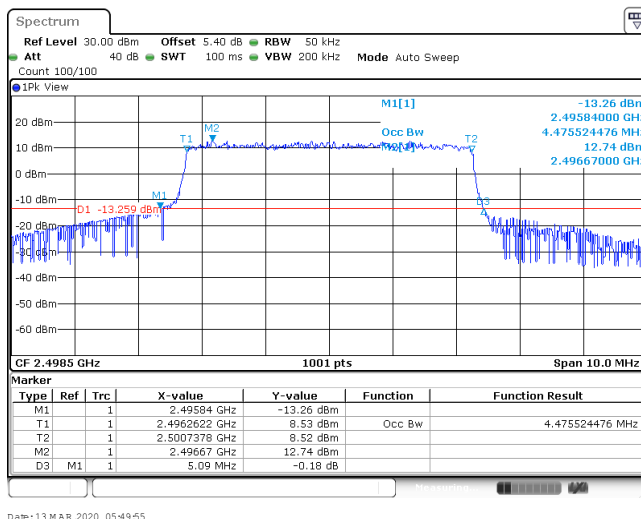
4.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band41	5MHz	QPSK	39675	25RB#0	4.476	5.090	PASS
Band41	5MHz	QPSK	40620	25RB#0	4.466	4.980	PASS
Band41	5MHz	QPSK	41565	25RB#0	4.466	4.960	PASS
Band41	5MHz	16QAM	39675	25RB#0	4.486	4.950	PASS
Band41	5MHz	16QAM	40620	25RB#0	4.456	4.870	PASS
Band41	5MHz	16QAM	41565	25RB#0	4.486	4.950	PASS
Band41	10MHz	QPSK	39700	50RB#0	8.911	10.580	PASS
Band41	10MHz	QPSK	40620	50RB#0	8.911	10.200	PASS
Band41	10MHz	QPSK	41540	50RB#0	8.911	9.880	PASS
Band41	10MHz	16QAM	39700	50RB#0	8.911	9.900	PASS
Band41	10MHz	16QAM	40620	50RB#0	8.911	9.680	PASS
Band41	10MHz	16QAM	41540	50RB#0	8.911	9.680	PASS
Band41	15MHz	QPSK	39725	75RB#0	13.487	19.920	PASS
Band41	15MHz	QPSK	40620	75RB#0	13.457	16.290	PASS
Band41	15MHz	QPSK	41515	75RB#0	13.457	15.330	PASS
Band41	15MHz	16QAM	39725	75RB#0	13.427	16.290	PASS
Band41	15MHz	16QAM	40620	75RB#0	13.427	15.060	PASS
Band41	15MHz	16QAM	41515	75RB#0	13.427	15.330	PASS
Band41	20MHz	QPSK	39750	100RB#0	17.862	19.680	PASS
Band41	20MHz	QPSK	40620	100RB#0	17.902	19.720	PASS
Band41	20MHz	QPSK	41490	100RB#0	17.902	19.880	PASS
Band41	20MHz	16QAM	39750	100RB#0	17.862	20.080	PASS
Band41	20MHz	16QAM	40620	100RB#0	17.822	19.720	PASS
Band41	20MHz	16QAM	41490	100RB#0	17.862	19.360	PASS

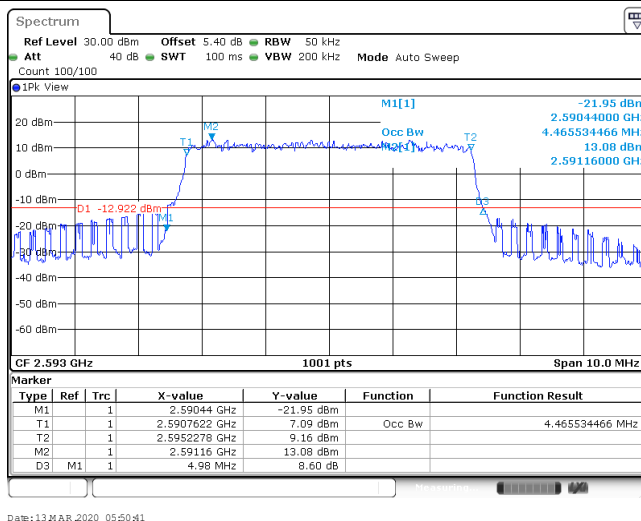


4.2. Test Plots

Band41_5MHz_QPSK_39675_25RB#0



Band41_5MHz_QPSK_40620_25RB#0

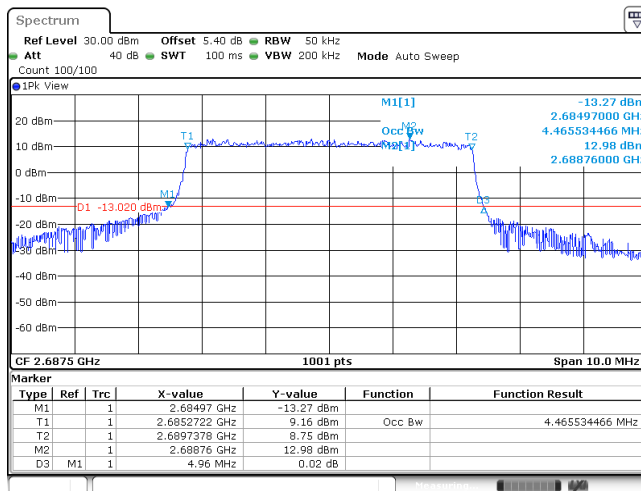


Band41_5MHz_QPSK_41565_25RB#0



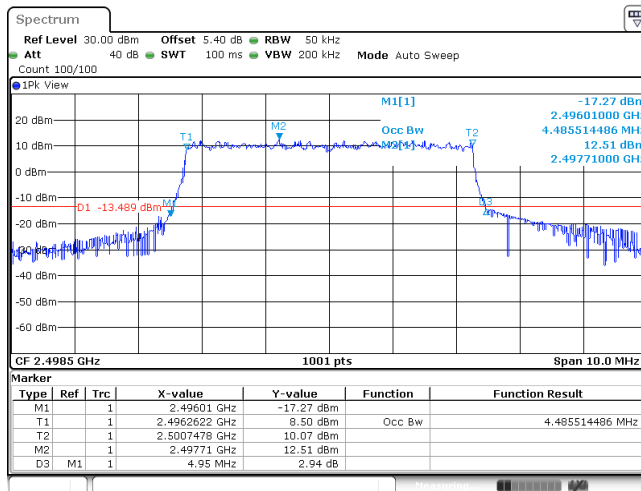
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Date: 13 MAR 2020 05:51:27

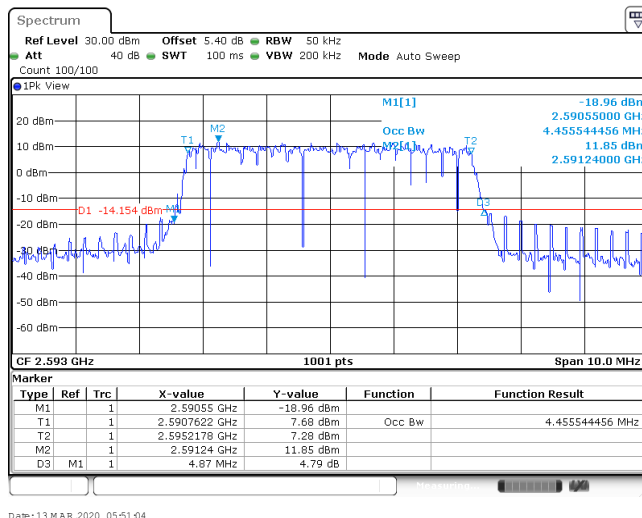
Band41_5MHz_16QAM_39675_25RB#0



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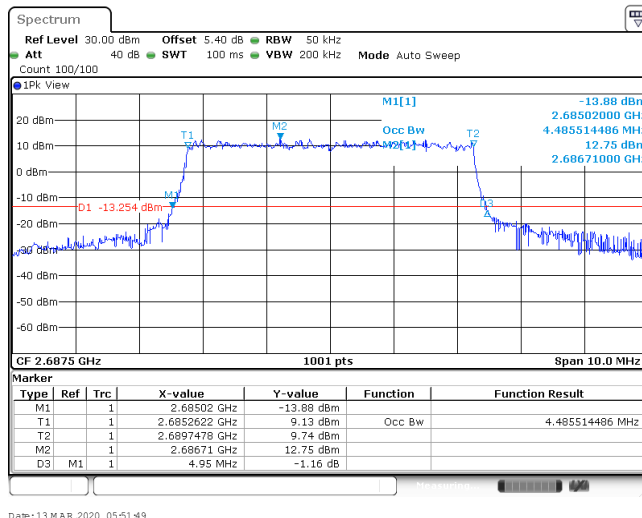
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Band41_5MHz_16QAM_41565_25RB#0



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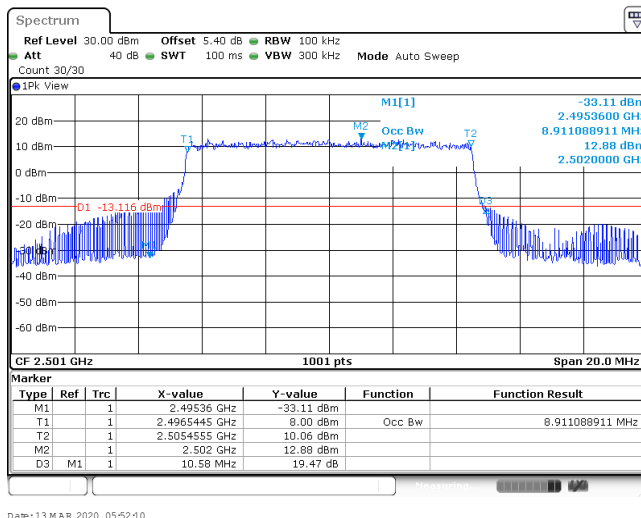
Band41_10MHz_QPSK_39700_50RB#0



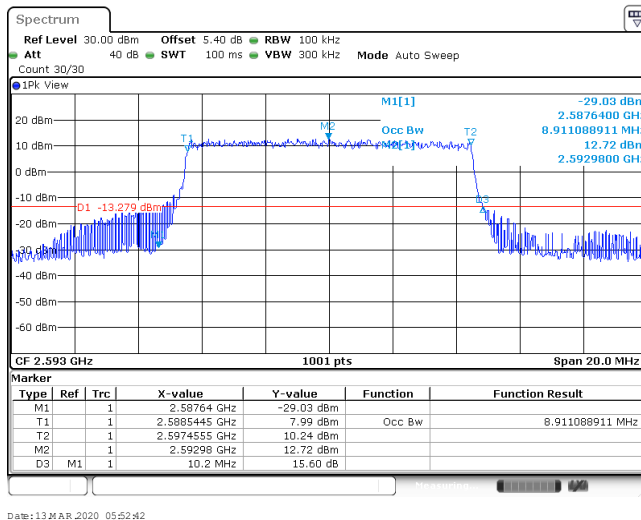
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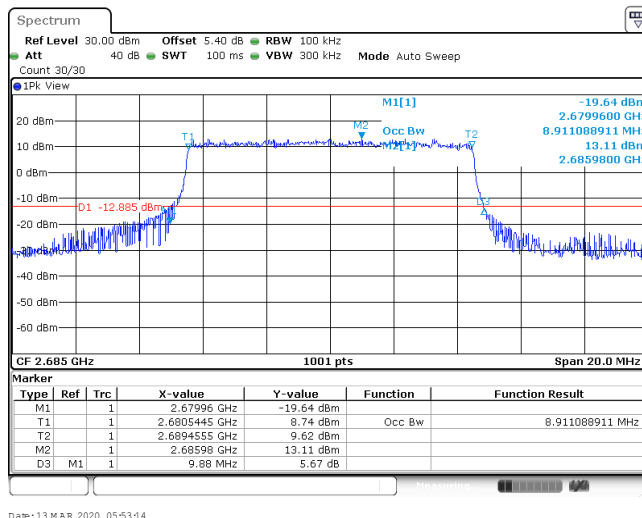


Band41_10MHz_QPSK_40620_50RB#0

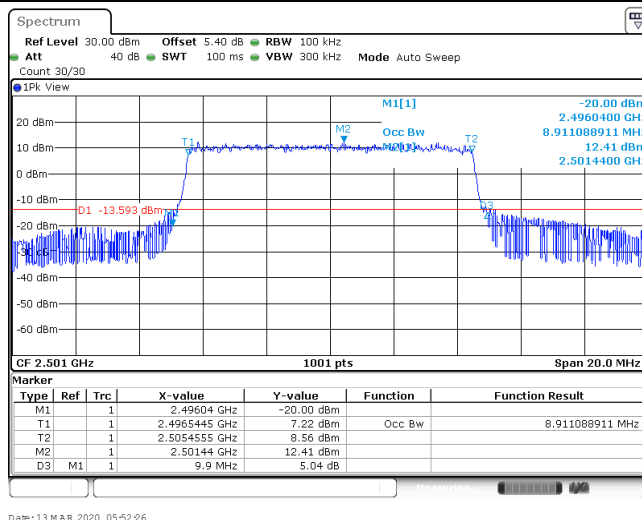


Band41_10MHz_QPSK_41540_50RB#0



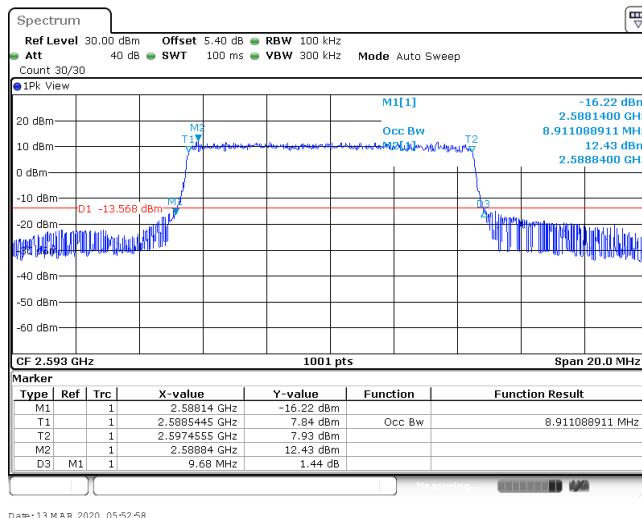


Band41_10MHz_16QAM_39700_50RB#0

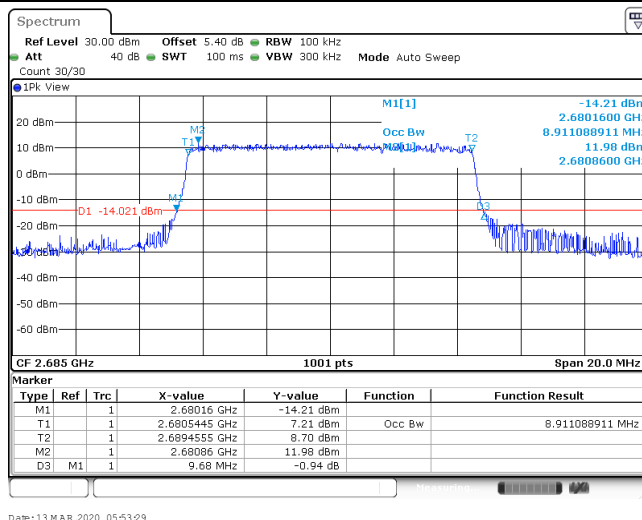


Band41_10MHz_16QAM_40620_50RB#0



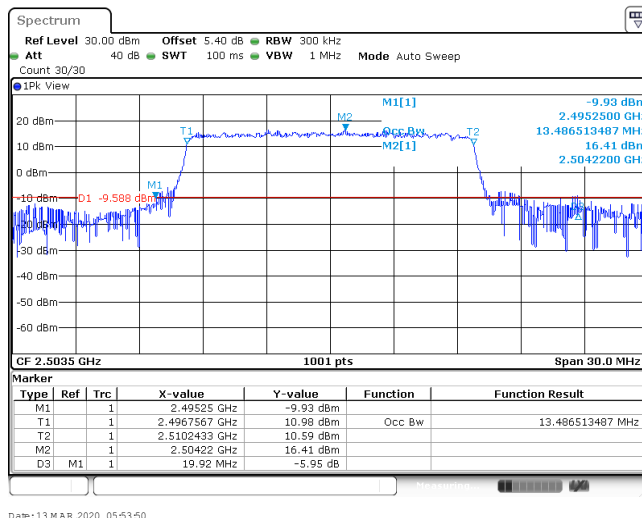


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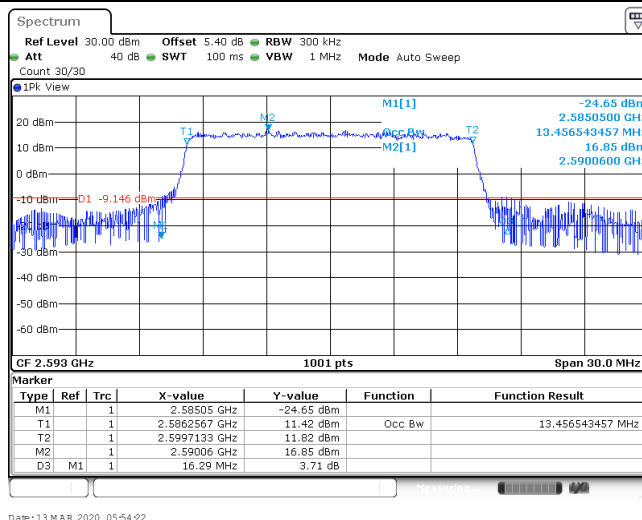


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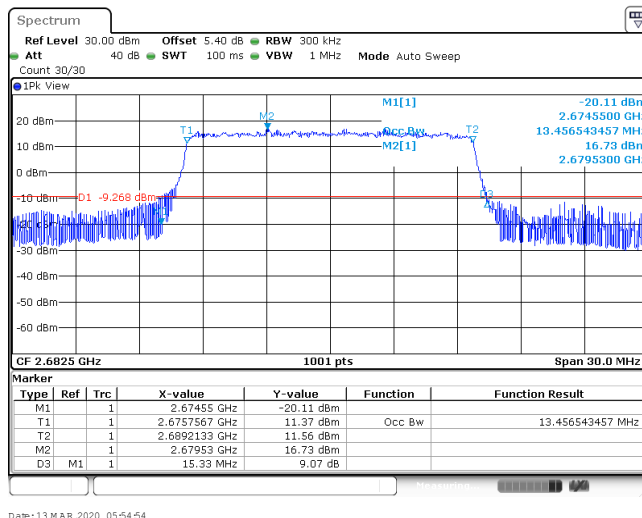


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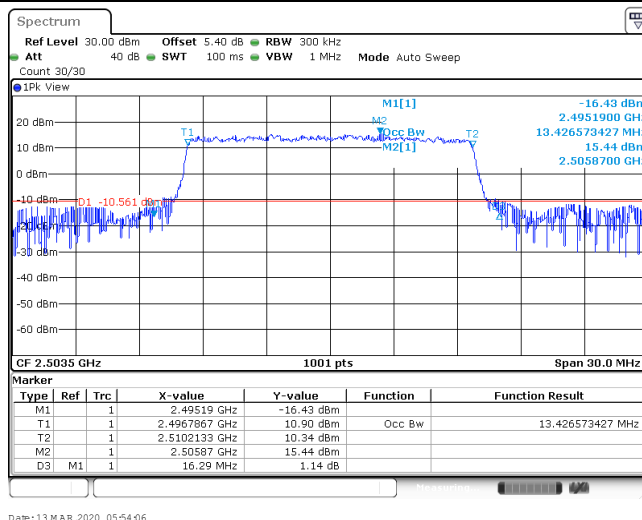


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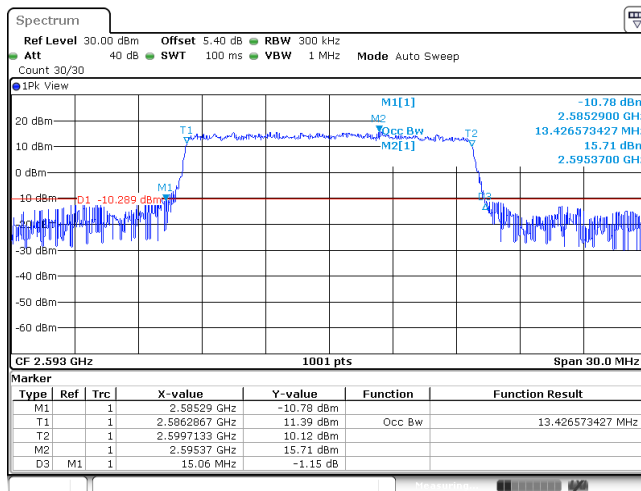


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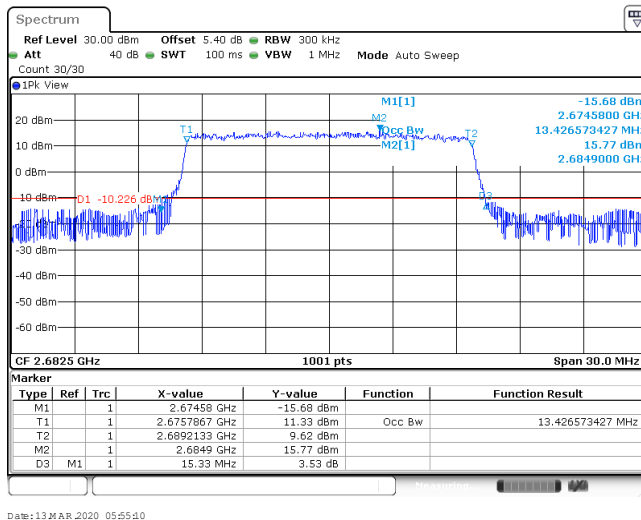


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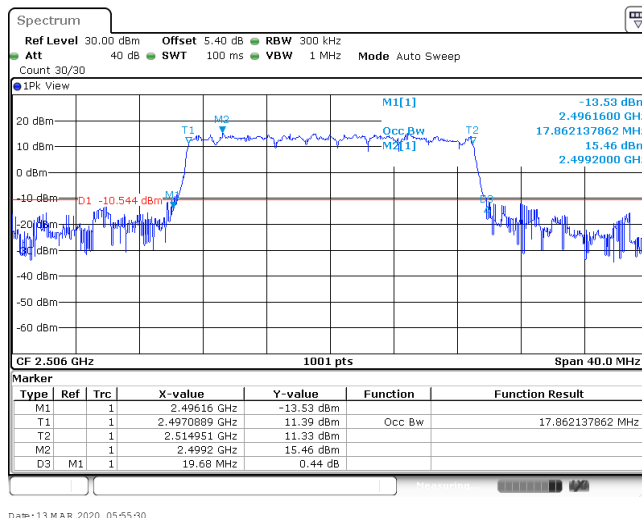


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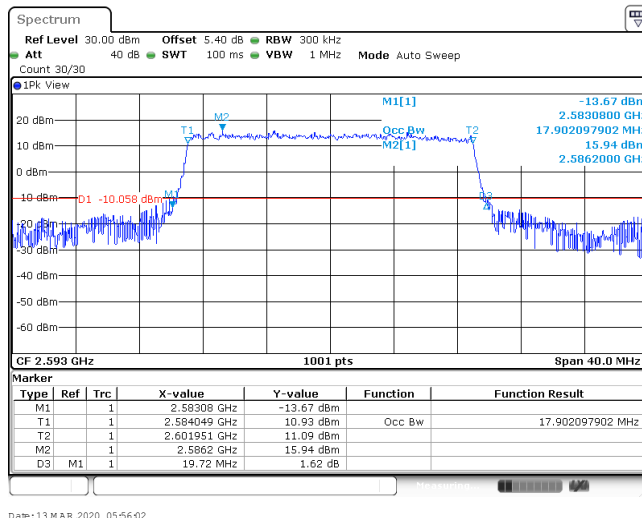
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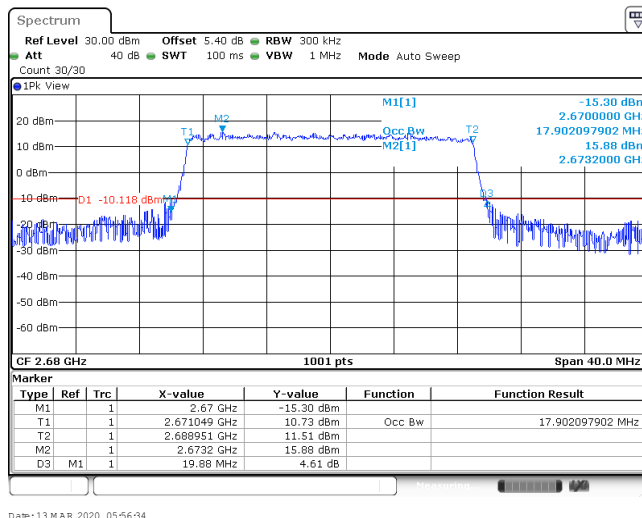
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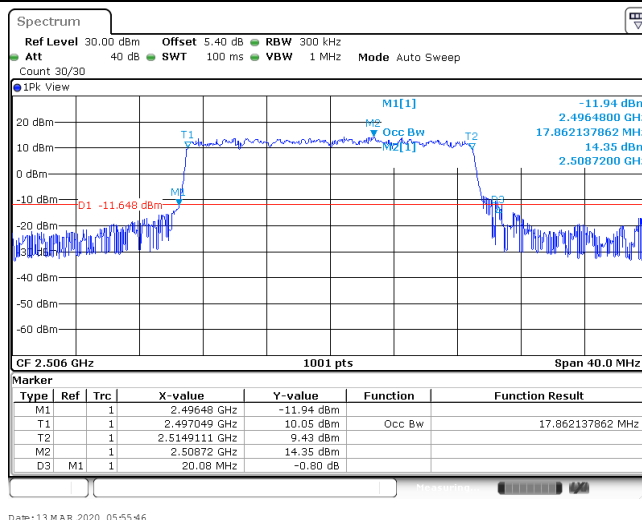
Band41_20MHz_QPSK_41490_100RB#0





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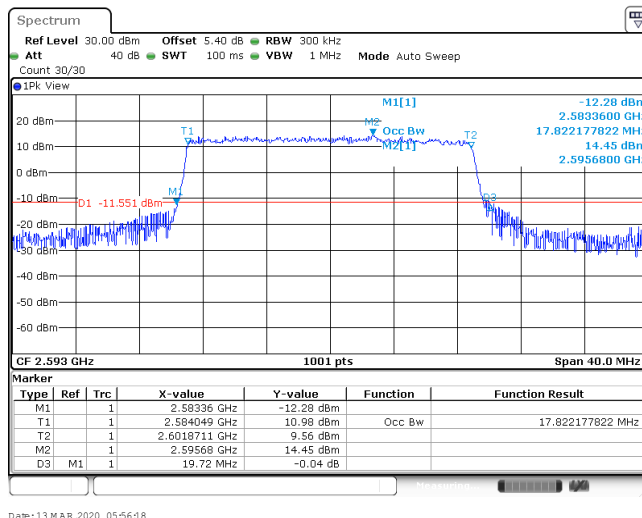
Band41_20MHz_16QAM_39750_100RB#0



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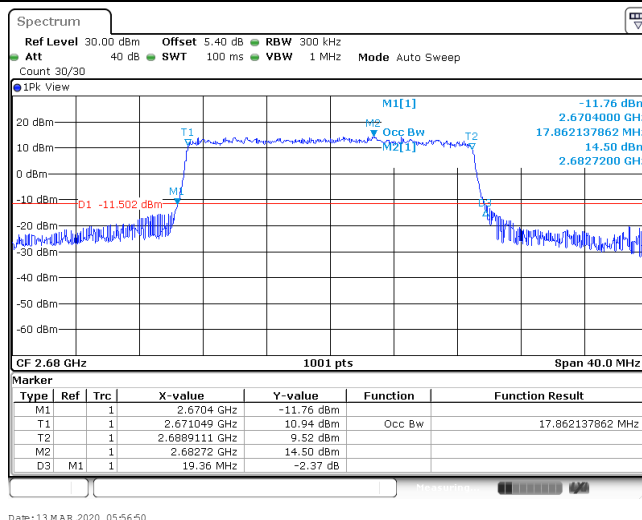
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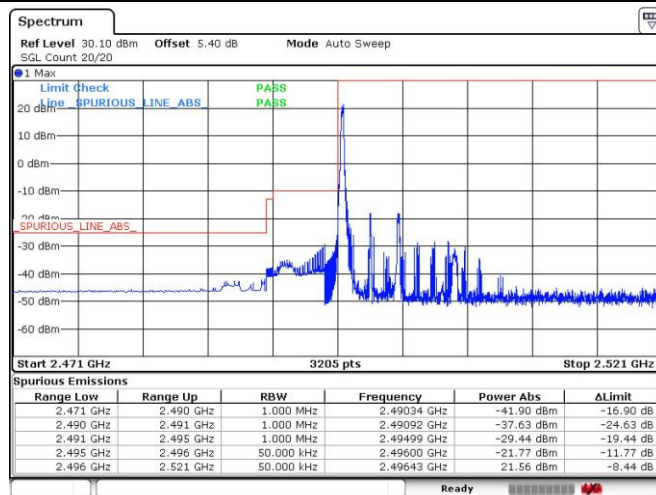
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5. Band Edge Compliance

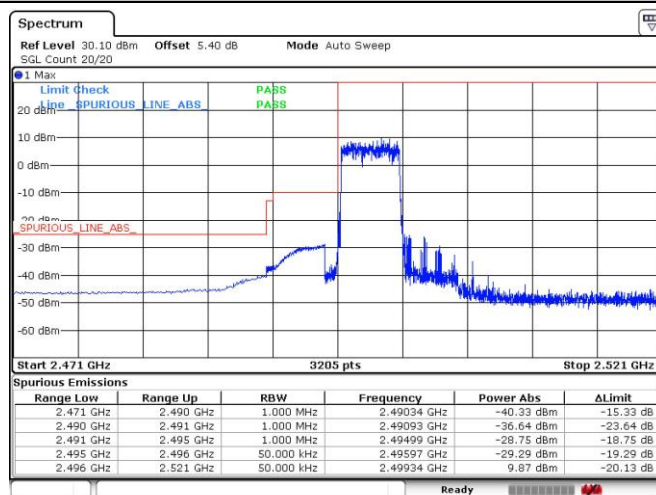
5.1. Test Plots

Band41_5MHz_QPSK_39675_1RB#0



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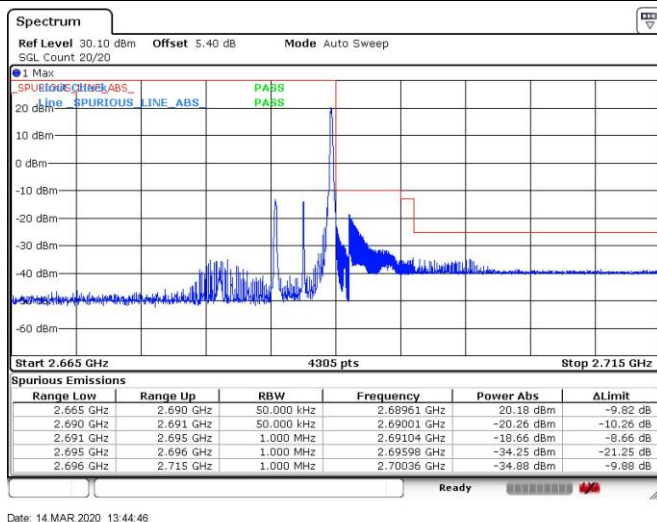
Band41_5MHz_QPSK_39675_25RB#0



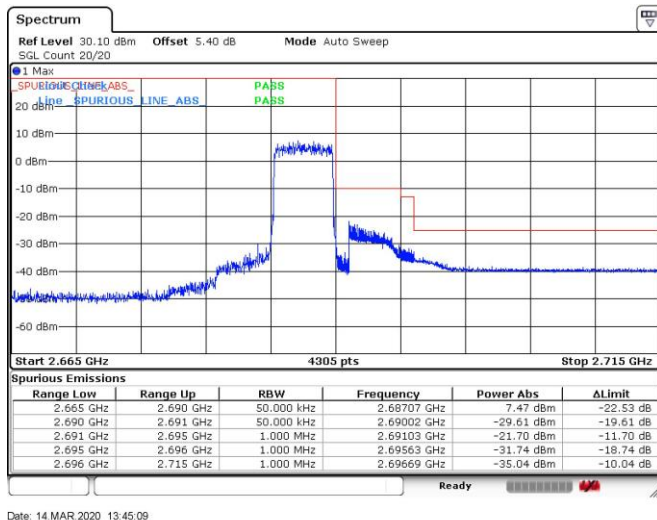
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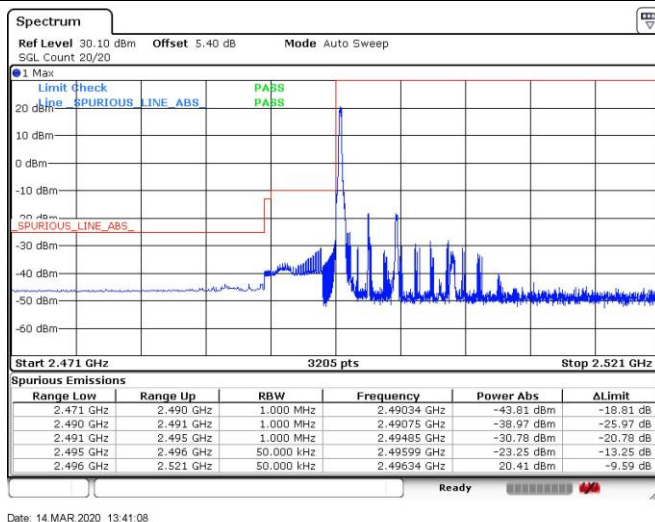


Band41_5MHz_QPSK_41565_25RB#0

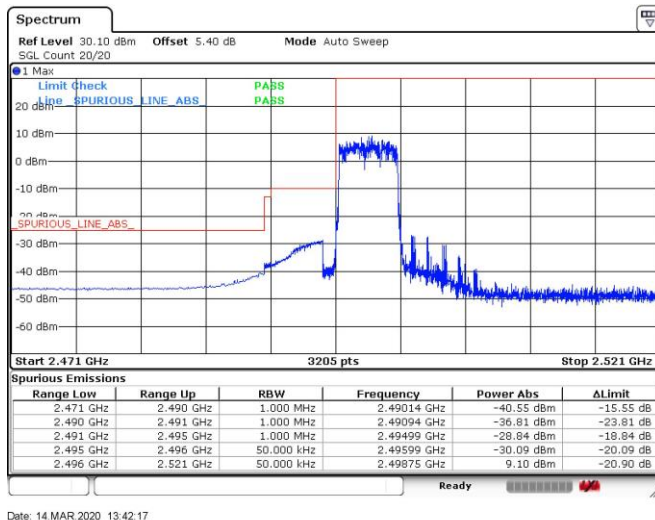


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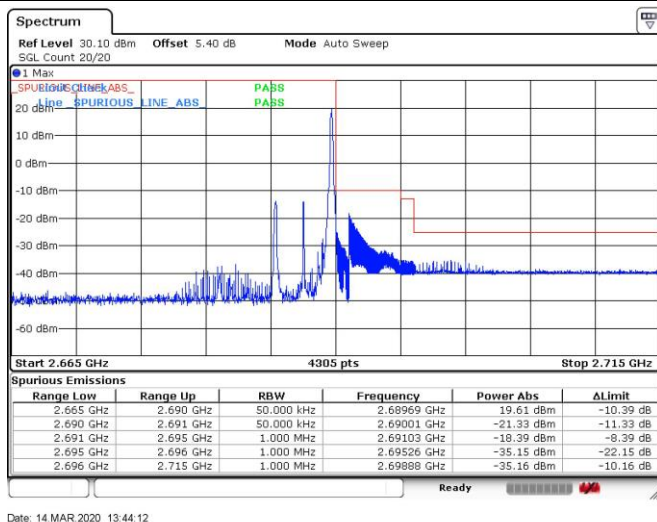


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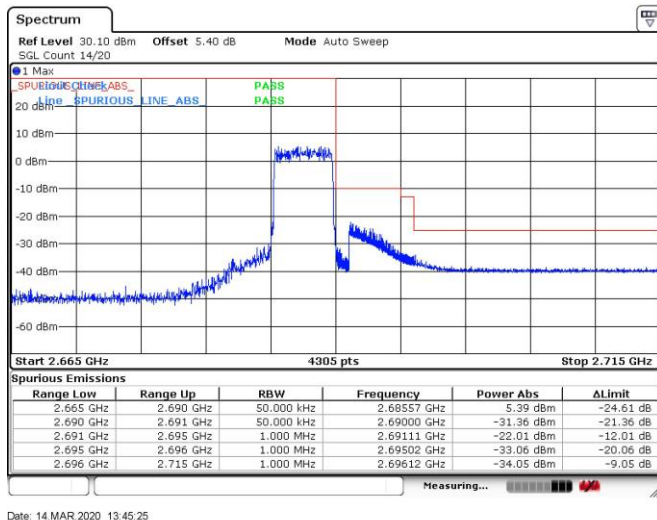


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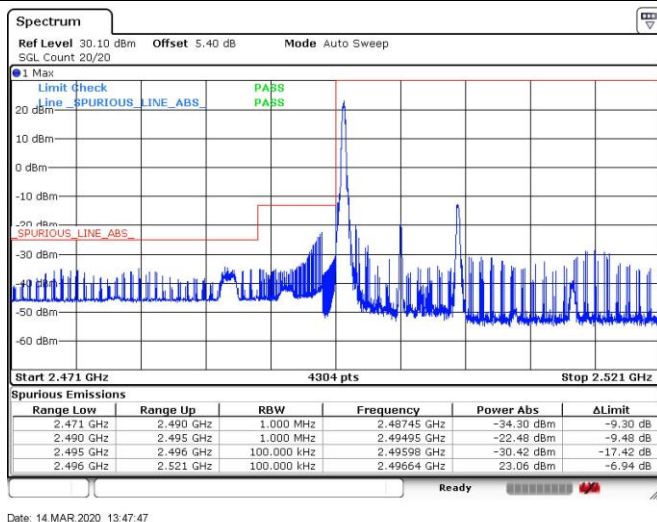


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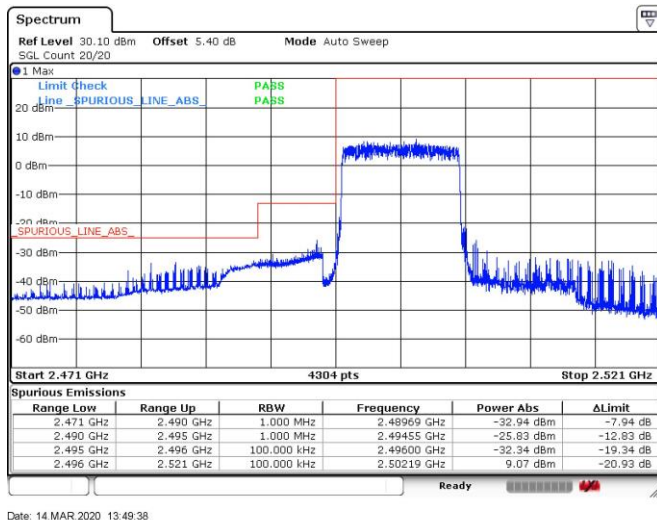


Band41_10MHz_QPSK_39700_1RB#0



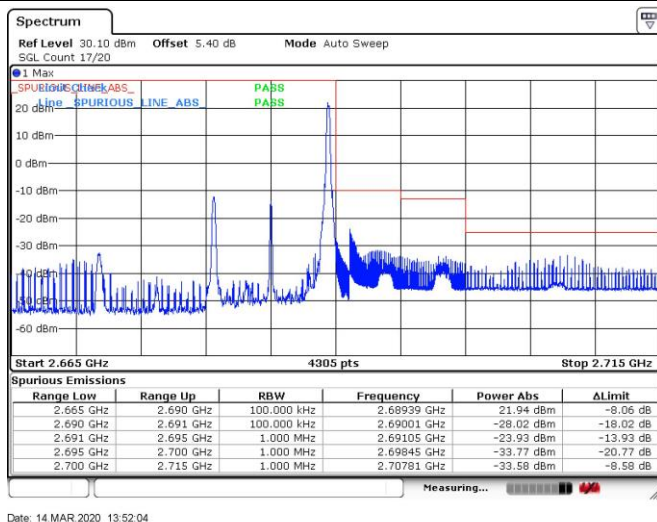


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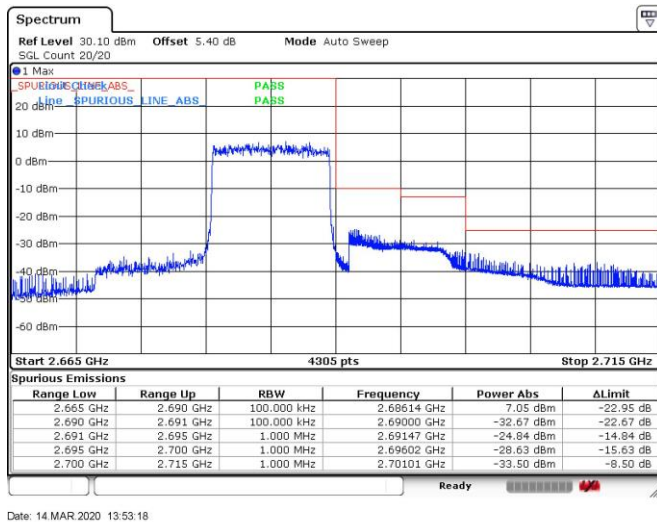


Band41_10MHz_QPSK_41540_1RB#49



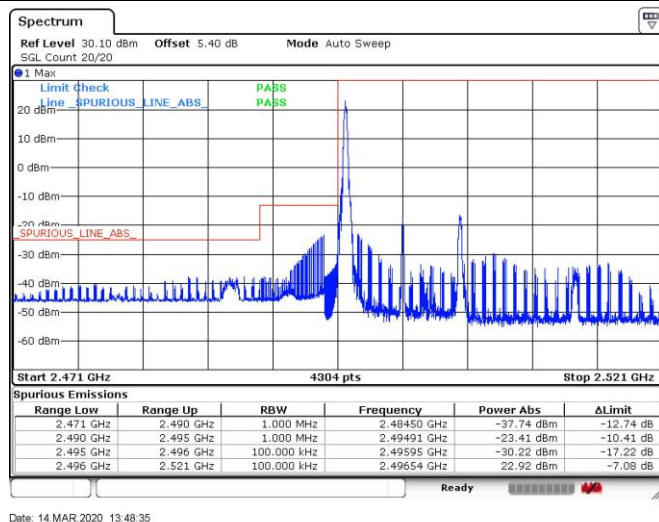


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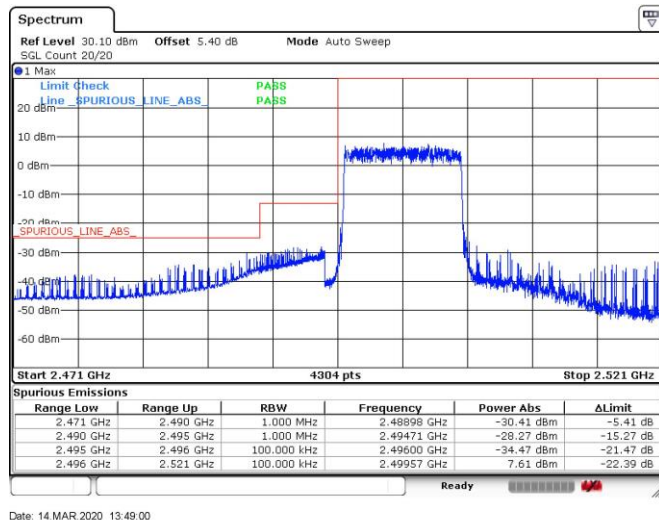
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Date: 14 MAR 2020 13:48:35

Band41_10MHz_16QAM_39700_50RB#0



Date: 14 MAR 2020 13:49:00

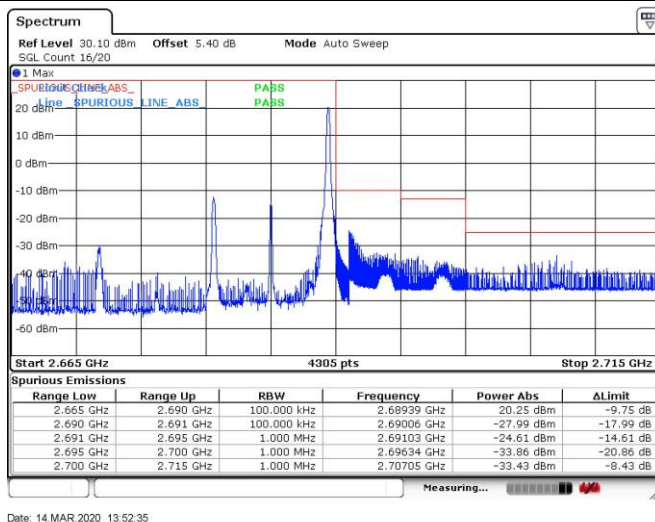
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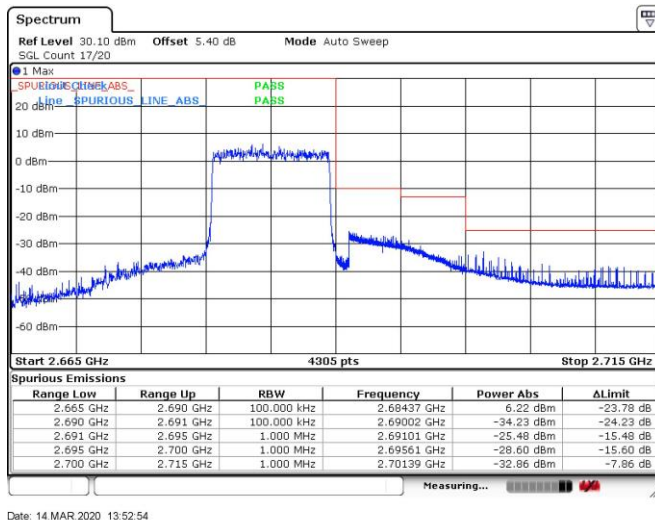
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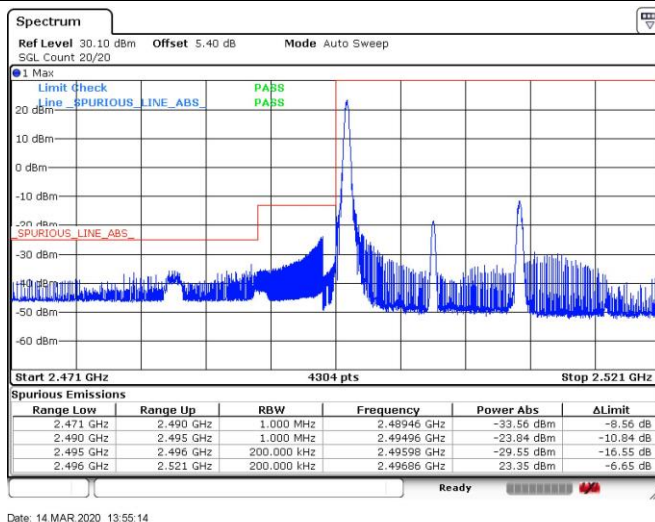


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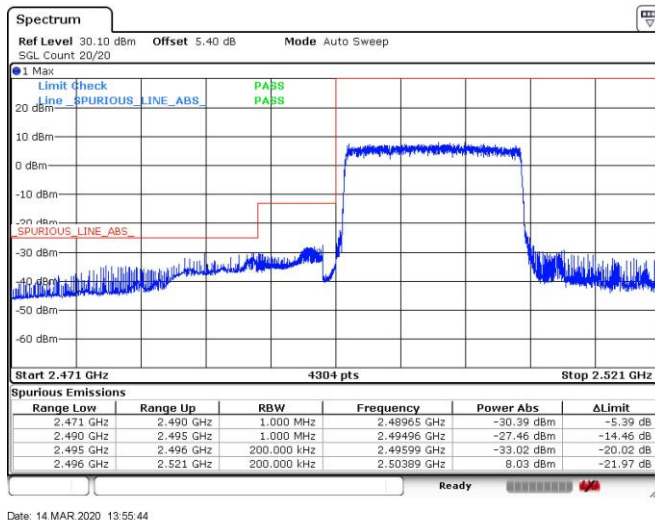


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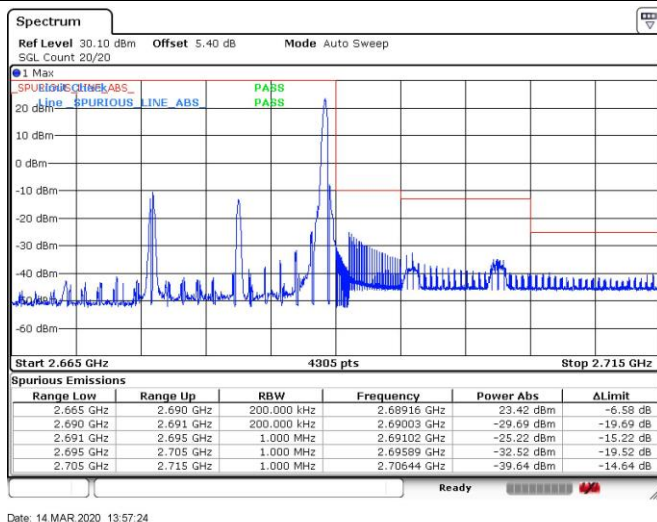


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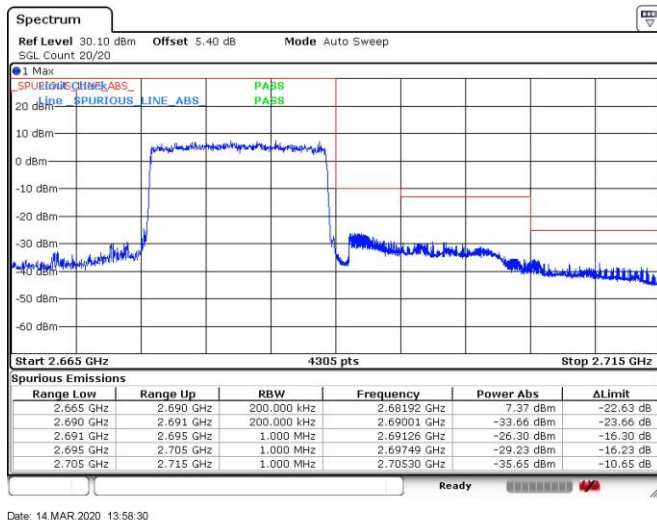


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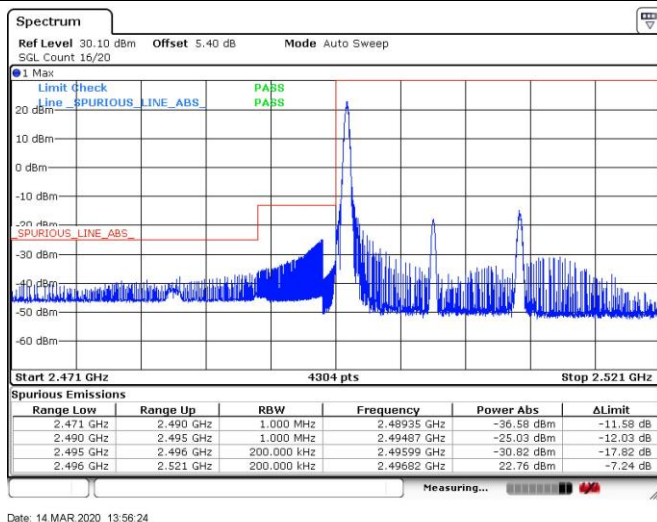


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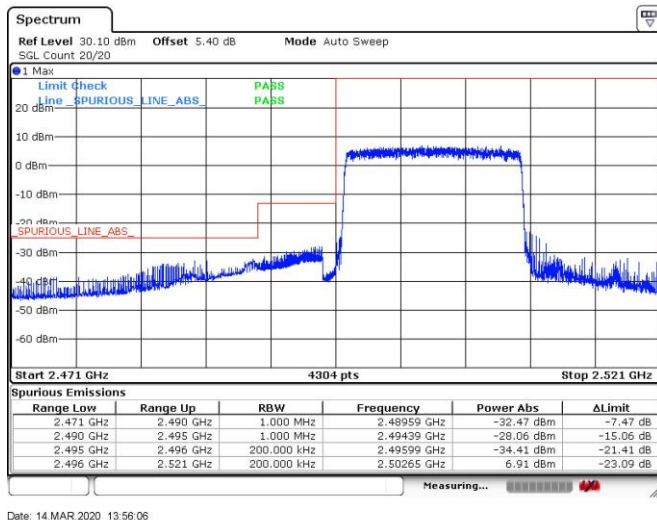


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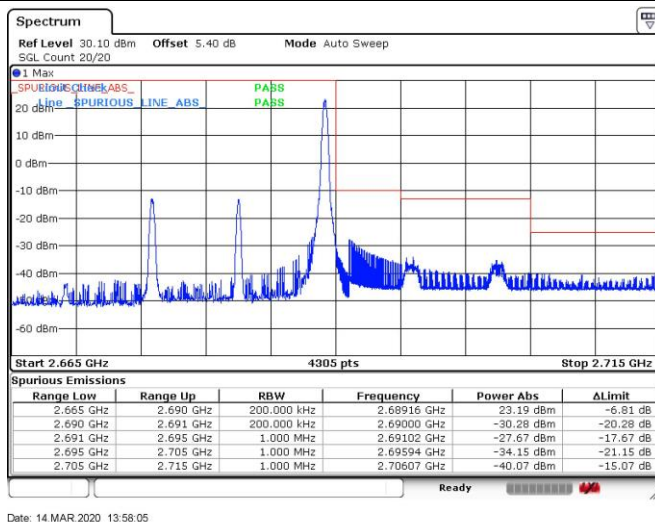


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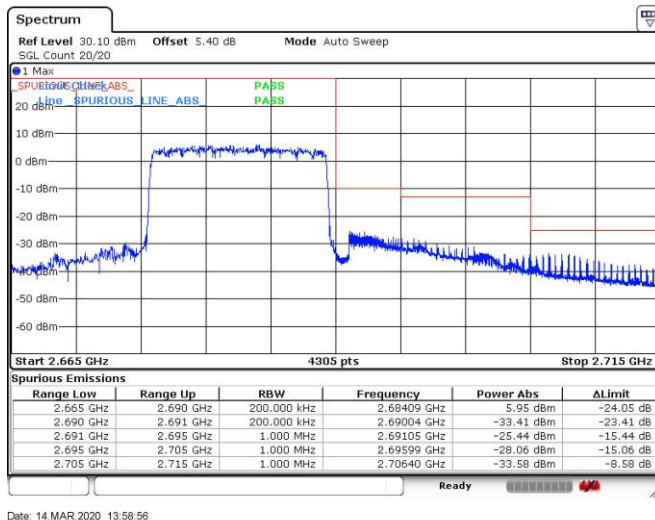


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Band41_15MHz_16QAM_41515_75RB#0

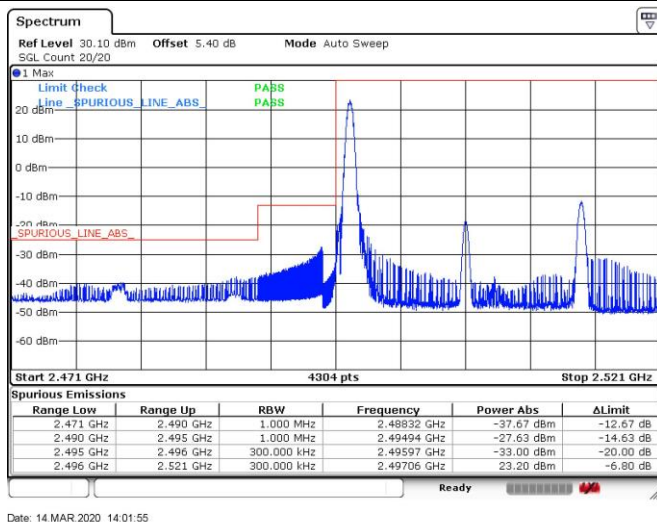


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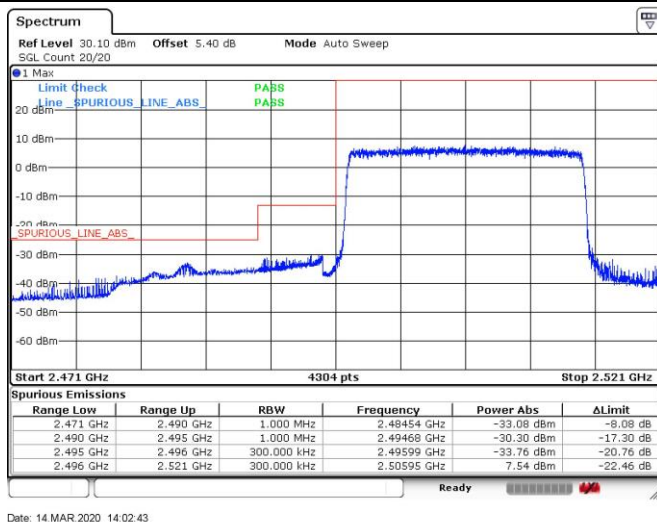


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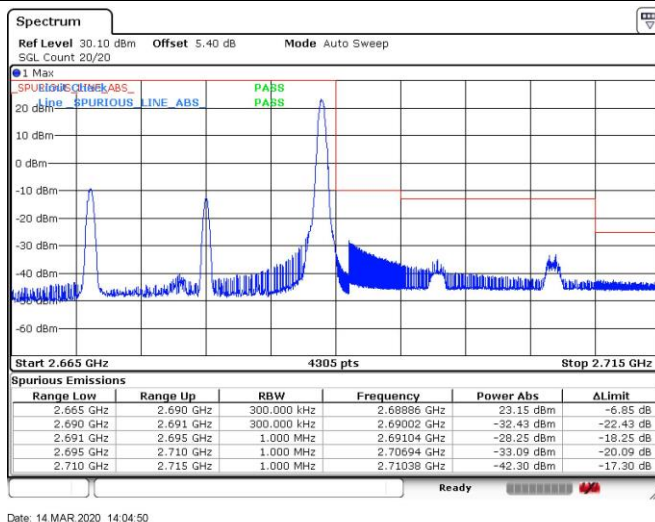


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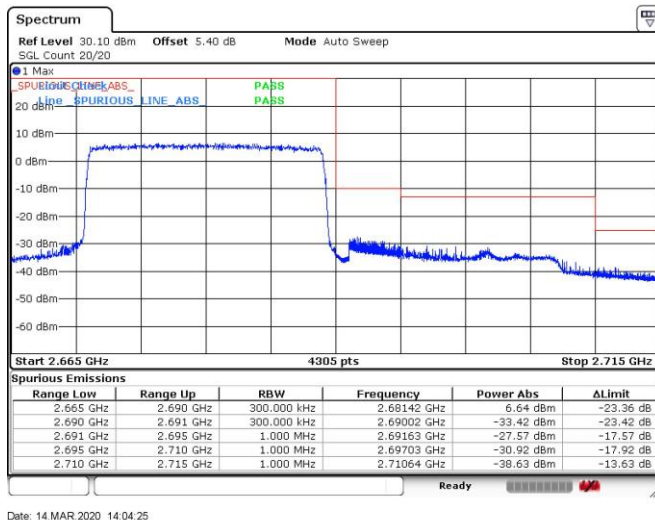


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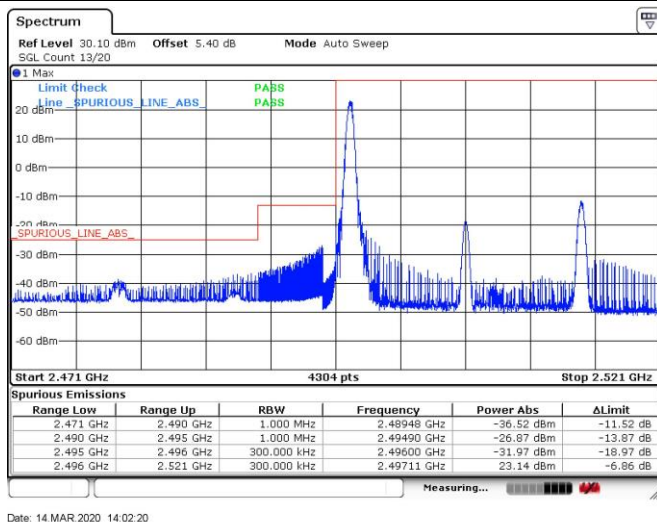


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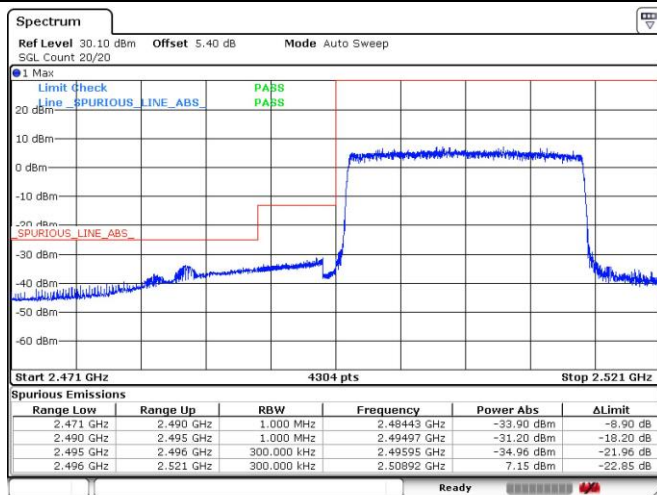
Band41_20MHz_16QAM_39750_1RB#0





Date: 14 MAR 2020 14:02:20

Band41_20MHz_16QAM_39750_100RB#0



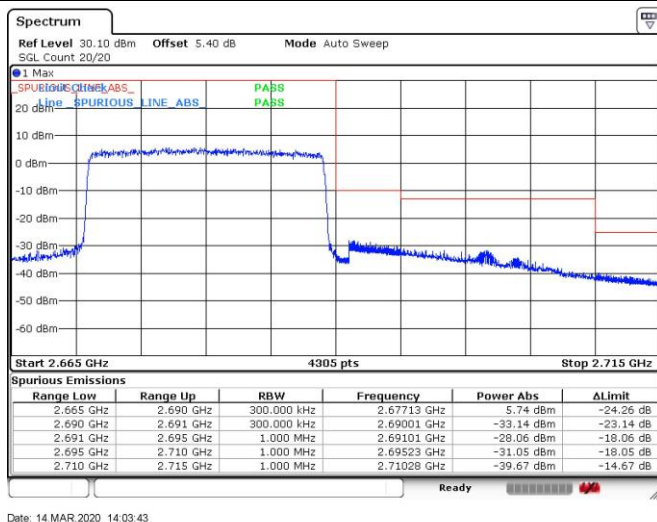
Date: 14 MAR 2020 14:03:00

Band41_20MHz_16QAM_41490_1RB#99

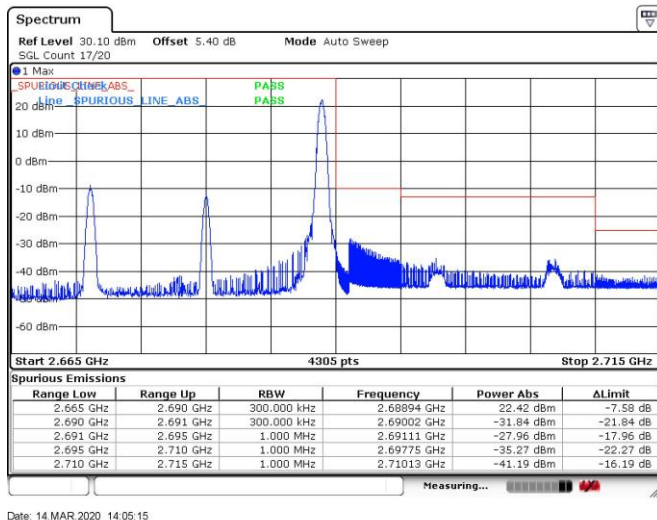


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Band41_20MHz_16QAM_41490_100RB#0



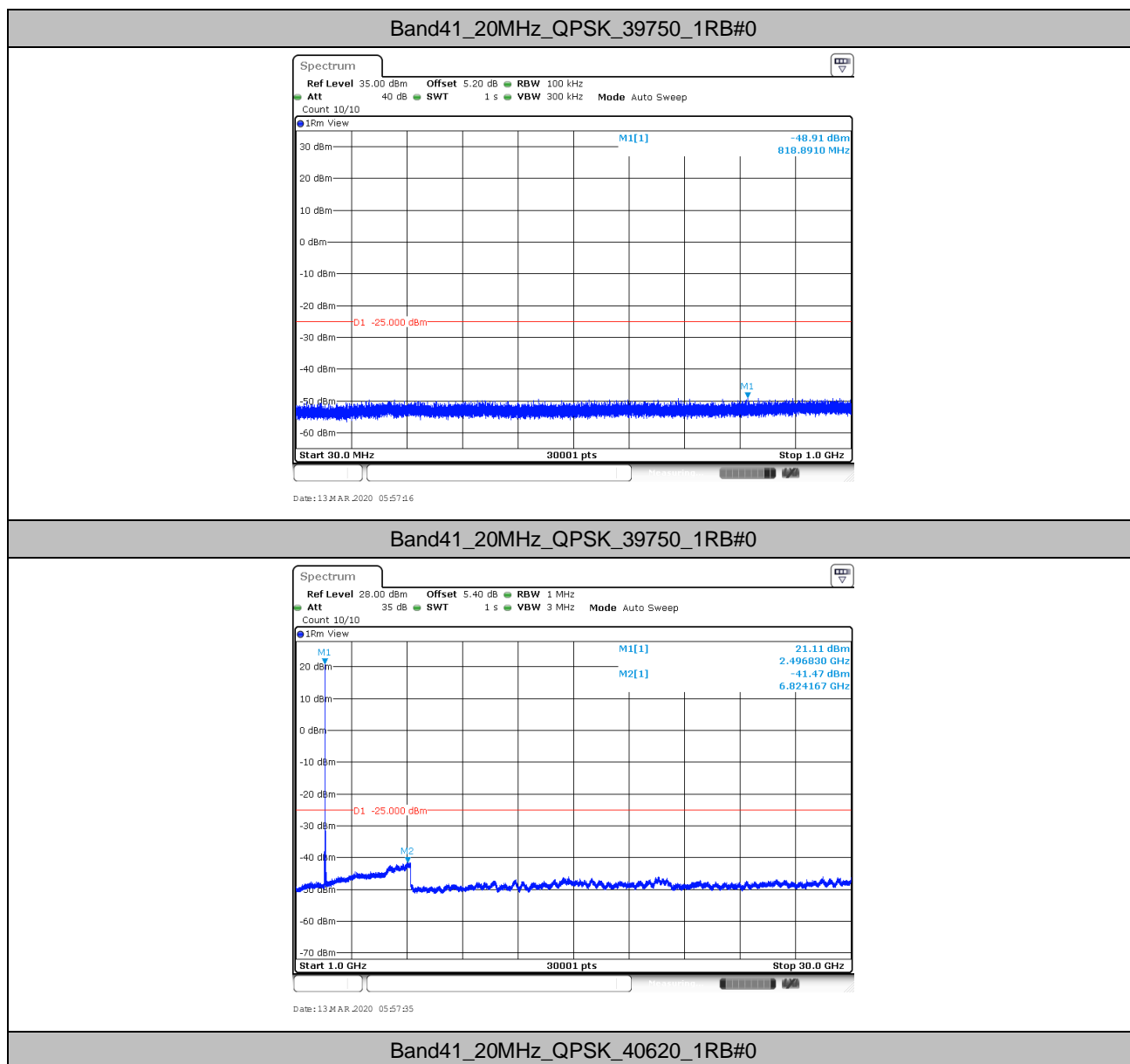


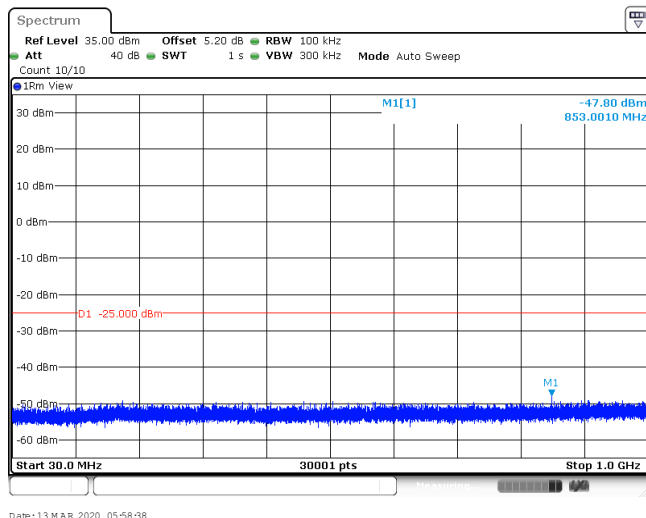
6. Spurious Emission at Antenna Terminal

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

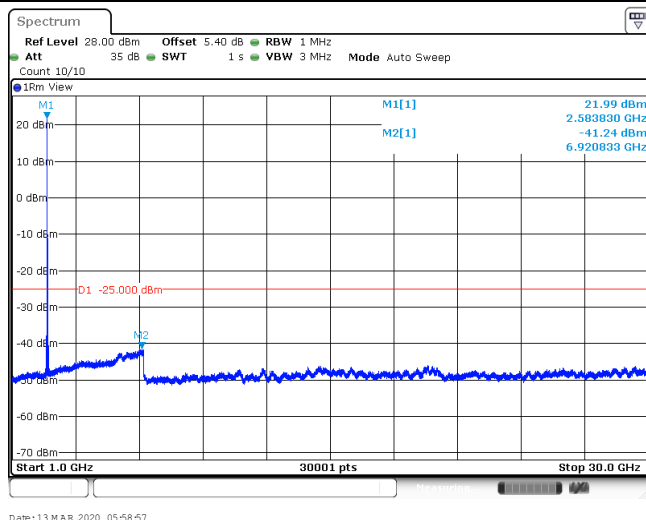
Remark2: only the worst case data displayed in this report.

6.1. Test Plots





Band41_20MHz_QPSK_40620_1RB#0



Band41_20MHz_QPSK_41490_1RB#0

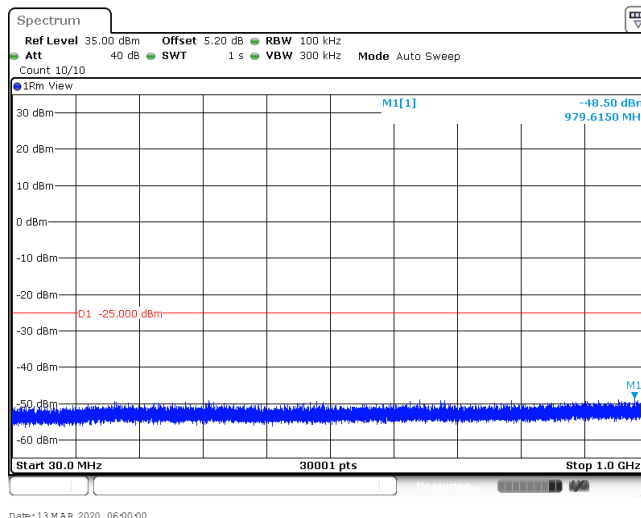


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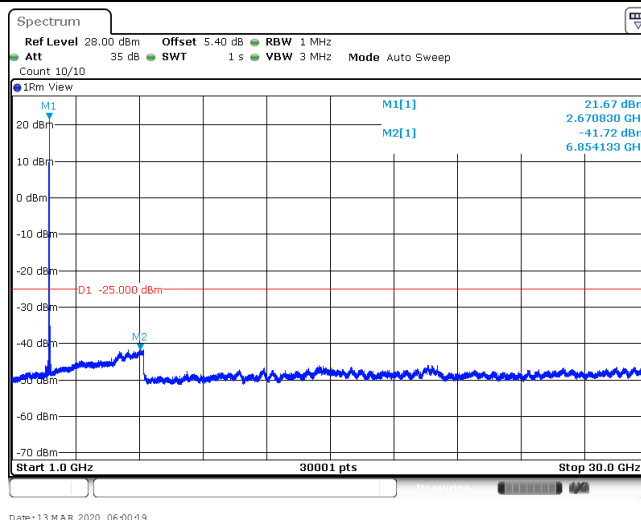
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Band41_20MHz_QPSK_41490_1RB#0

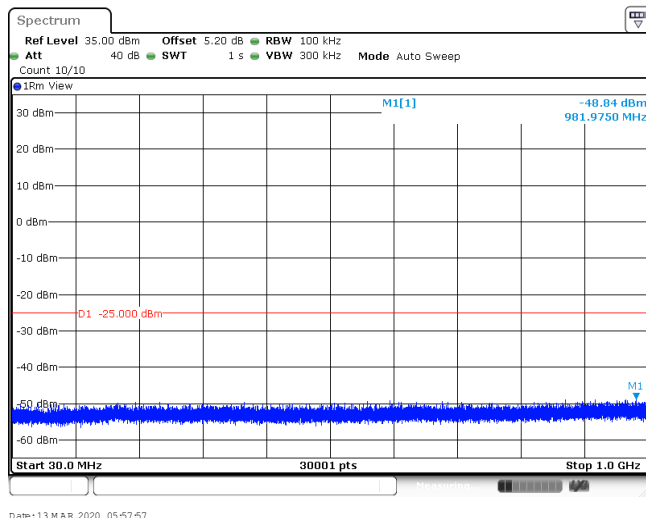


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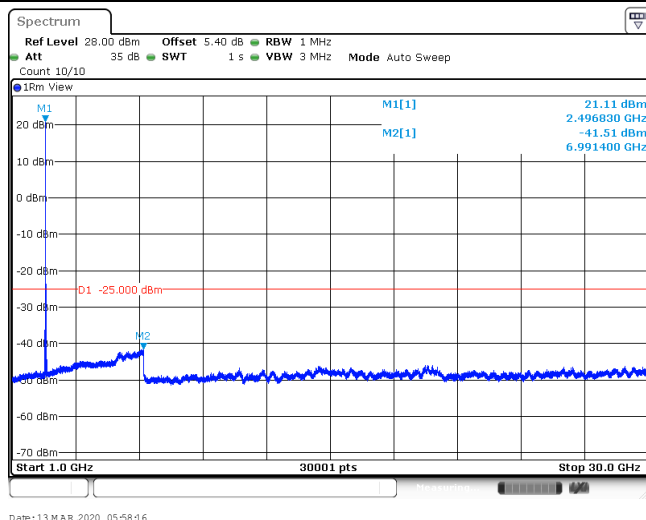


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Band41_20MHz_16QAM_39750_1RB#0

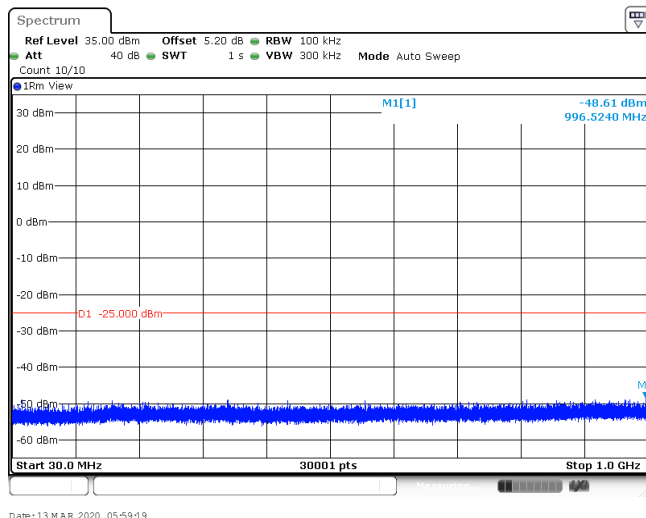


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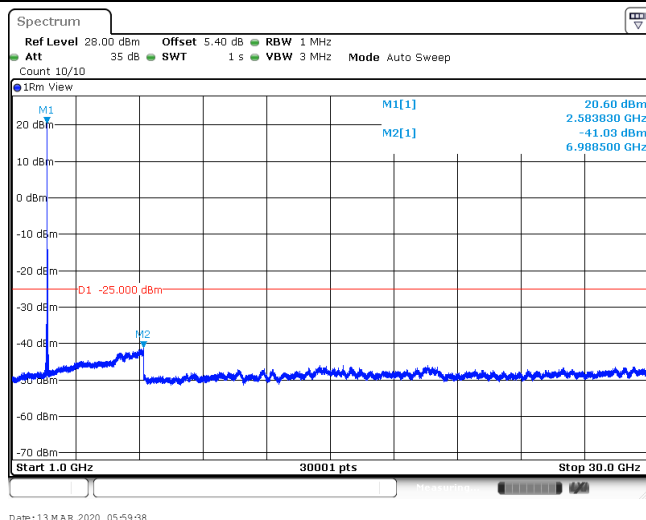


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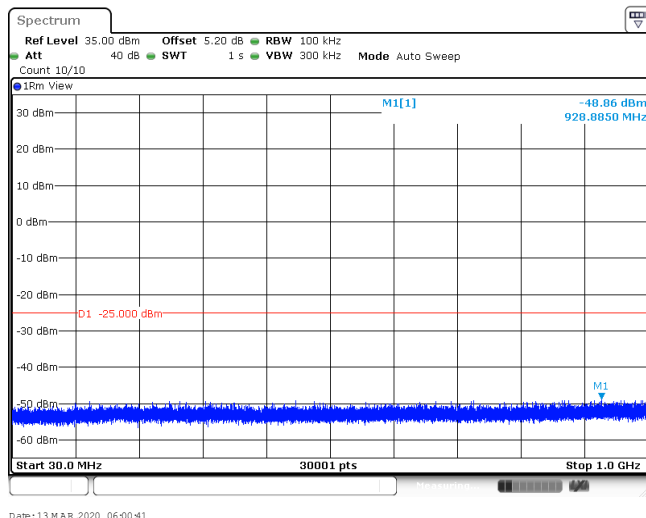


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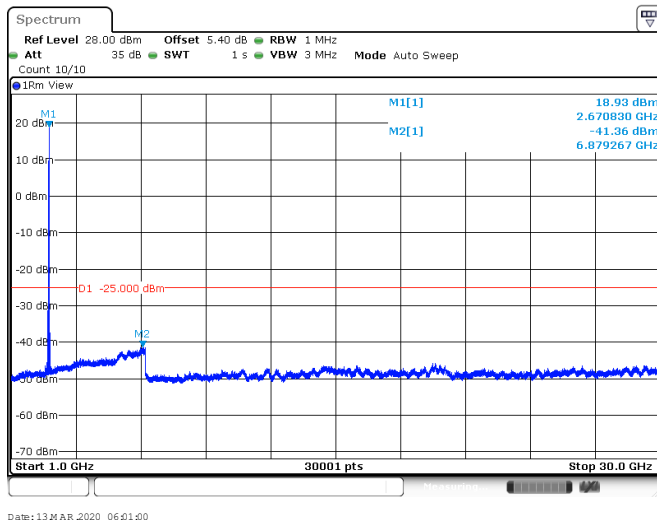


Band41_20MHz_16QAM_41490_1RB#0





Band41_20MHz_16QAM_41490_1RB#0



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7. Field Strength of Spurious Radiation

7.1. Test Band = LTE Band 41

7.1.1. Test Mode = LTE/TM1

7.1.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
109.2045	-65.67	-25.00	40.67	Vertical
578.3199	-64.86	-25.00	39.86	Vertical
1670.1340	-44.16	-25.00	19.16	Vertical
7366.1455	-56.48	-25.00	31.48	Vertical
14484.3828	-47.83	-25.00	22.83	Vertical
17994.4998	-40.43	-25.00	15.43	Vertical
42.8531	-64.56	-25.00	39.56	Horizontal
221.3906	-69.01	-25.00	44.01	Horizontal
1761.7524	-39.30	-25.00	14.30	Horizontal
7381.6461	-56.70	-25.00	31.70	Horizontal
16399.4466	-44.12	-25.00	19.12	Horizontal
17994.9998	-45.34	-25.00	20.34	Horizontal

7.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
109.1560	-65.64	-25.00	40.64	Vertical
460.5075	-66.21	-25.00	41.21	Vertical
1658.9318	-44.09	-25.00	19.09	Vertical
7319.6440	-55.89	-25.00	30.89	Vertical
14511.8837	-47.66	-25.00	22.66	Vertical
17998.5000	-40.52	-25.00	15.52	Vertical
40.7675	-64.24	-25.00	39.24	Horizontal
232.9826	-68.41	-25.00	43.41	Horizontal
1945.7892	-36.07	-25.00	11.07	Horizontal
7250.6417	-58.01	-25.00	33.01	Horizontal
16394.9465	-44.15	-25.00	19.15	Horizontal
17999.5000	-45.27	-25.00	20.27	Horizontal



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7.1.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
107.7009	-64.67	-25.00	39.67	Vertical
599.4185	-64.31	-25.00	39.31	Vertical
1793.3587	-43.84	-25.00	18.84	Vertical
7362.6454	-56.18	-25.00	31.18	Vertical
14444.3815	-47.84	-25.00	22.84	Vertical
17995.4999	-40.76	-25.00	15.76	Vertical
40.6705	-63.92	-25.00	38.92	Horizontal
237.0569	-68.14	-25.00	43.14	Horizontal
1762.1524	-39.35	-25.00	14.35	Horizontal
7412.6471	-56.53	-25.00	31.53	Horizontal
16380.9460	-43.83	-25.00	18.83	Horizontal
17996.9999	-45.16	-25.00	20.16	Horizontal

Remark:

- 1 According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.
- 2 The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data had been displayed.





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
Band41	20MHz	QPSK	39750	100RB#0	VL	NT	-0.70	-0.000279	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	VN	NT	1.50	0.000599	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	VH	NT	-8.60	-0.003432	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	VL	NT	-4.40	-0.001697	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	VN	NT	-10.20	-0.003934	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	VH	NT	3.20	0.001234	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	VL	NT	-1.50	-0.000560	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	VN	NT	7.10	0.002649	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	VH	NT	-9.90	-0.003694	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	VL	NT	-0.40	-0.000160	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	VN	NT	-9.10	-0.003631	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	VH	NT	-9.00	-0.003591	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	VL	NT	0.60	0.000231	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	VN	NT	-1.00	-0.000386	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	VH	NT	0.80	0.000309	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	VL	NT	2.60	0.000970	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	VN	NT	-6.90	-0.002575	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	VH	NT	-5.10	-0.001903	±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
Band41	20MHz	QPSK	39750	100RB#0	NV	-30	-2.90	-0.001157	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	-20	-3.10	-0.001237	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	0	1.40	0.000559	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	10	-8.80	-0.003512	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	20	-9.80	-0.003911	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	30	-7.50	-0.002993	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	40	-4.40	-0.001756	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	50	-7.20	-0.002873	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-30	-9.30	-0.003587	±2.5	PASS



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Band41	20MHz	QPSK	40620	100RB#0	NV	-20	-2.70	-0.001041	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	0	2.50	0.000964	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	10	8.50	0.003278	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	20	-1.60	-0.000617	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	30	-11.70	-0.004512	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	40	2.20	0.000848	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	50	-2.50	-0.000964	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	-30	-0.60	-0.000224	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	-20	-6.10	-0.002276	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	0	-13.70	-0.005112	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	10	-6.40	-0.002388	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	20	8.00	0.002985	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	30	2.60	0.000970	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	40	-1.30	-0.000485	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	50	-6.80	-0.002537	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	-30	-5.10	-0.002035	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	-20	3.20	0.001277	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	0	-11.10	-0.004429	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	10	-8.10	-0.003232	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	20	1.50	0.000599	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	30	5.30	0.002115	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	40	-0.60	-0.000239	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	50	0.50	0.000200	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	-30	4.20	0.001620	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	-20	-9.60	-0.003702	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	0	-1.40	-0.000540	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	10	4.10	0.001581	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	20	-5.90	-0.002275	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	30	1.50	0.000578	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	40	-13.10	-0.005052	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	50	-10.70	-0.004126	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	-30	6.20	0.002313	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	-20	-6.40	-0.002388	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	0	-2.30	-0.000858	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	10	-1.60	-0.000597	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	20	-1.40	-0.000522	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	30	-0.90	-0.000336	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	40	1.60	0.000597	±2.5	PASS



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Band41	20MHz	16QAM	41490	100RB#0	NV	50	3.30	0.001231	±2.5	PASS
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The End



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