



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	25.72	26.82	30.00	PASS
Band41	5MHz	QPSK	39675	1RB#12	25.83	26.93	30.00	PASS
Band41	5MHz	QPSK	39675	1RB#24	25.99	27.09	30.00	PASS
Band41	5MHz	QPSK	39675	12RB#0	25.14	26.24	30.00	PASS
Band41	5MHz	QPSK	39675	12RB#6	24.89	25.99	30.00	PASS
Band41	5MHz	QPSK	39675	12RB#13	24.98	26.08	30.00	PASS
Band41	5MHz	QPSK	39675	25RB#0	24.97	26.07	30.00	PASS
Band41	5MHz	QPSK	40620	1RB#0	26.15	27.25	30.00	PASS
Band41	5MHz	QPSK	40620	1RB#24	26.10	27.20	30.00	PASS
Band41	5MHz	QPSK	40620	1RB#12	26.11	27.21	30.00	PASS
Band41	5MHz	QPSK	40620	12RB#0	25.08	26.18	30.00	PASS
Band41	5MHz	QPSK	40620	12RB#6	25.14	26.24	30.00	PASS
Band41	5MHz	QPSK	40620	12RB#13	25.24	26.34	30.00	PASS
Band41	5MHz	QPSK	40620	25RB#0	25.09	26.19	30.00	PASS
Band41	5MHz	QPSK	41565	1RB#24	26.20	27.30	30.00	PASS
Band41	5MHz	QPSK	41565	1RB#0	26.05	27.15	30.00	PASS
Band41	5MHz	QPSK	41565	1RB#12	25.95	27.05	30.00	PASS
Band41	5MHz	QPSK	41565	12RB#0	25.10	26.20	30.00	PASS
Band41	5MHz	QPSK	41565	12RB#6	25.11	26.21	30.00	PASS
Band41	5MHz	QPSK	41565	12RB#13	25.29	26.39	30.00	PASS
Band41	5MHz	QPSK	41565	25RB#0	25.14	26.24	30.00	PASS
Band41	5MHz	16QAM	39675	1RB#0	24.79	25.89	30.00	PASS
Band41	5MHz	16QAM	39675	1RB#12	24.76	25.86	30.00	PASS
Band41	5MHz	16QAM	39675	1RB#24	24.77	25.87	30.00	PASS
Band41	5MHz	16QAM	39675	12RB#6	24.08	25.18	30.00	PASS
Band41	5MHz	16QAM	39675	12RB#0	24.07	25.17	30.00	PASS
Band41	5MHz	16QAM	39675	12RB#13	23.96	25.06	30.00	PASS
Band41	5MHz	16QAM	39675	25RB#0	23.99	25.09	30.00	PASS
Band41	5MHz	16QAM	40620	1RB#0	25.05	26.15	30.00	PASS
Band41	5MHz	16QAM	40620	1RB#12	24.96	26.06	30.00	PASS
Band41	5MHz	16QAM	40620	1RB#24	24.75	25.85	30.00	PASS
Band41	5MHz	16QAM	40620	12RB#13	24.04	25.14	30.00	PASS
Band41	5MHz	16QAM	40620	12RB#0	24.18	25.28	30.00	PASS
Band41	5MHz	16QAM	40620	12RB#6	24.16	25.26	30.00	PASS
Band41	5MHz	16QAM	40620	25RB#0	24.19	25.29	30.00	PASS
Band41	5MHz	16QAM	41565	1RB#12	24.85	25.95	30.00	PASS
Band41	5MHz	16QAM	41565	1RB#0	24.72	25.82	30.00	PASS
Band41	5MHz	16QAM	41565	1RB#24	24.59	25.69	30.00	PASS



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Band41	5MHz	16QAM	41565	12RB#0	24.10	25.20	30.00	PASS
Band41	5MHz	16QAM	41565	12RB#6	24.27	25.37	30.00	PASS
Band41	5MHz	16QAM	41565	12RB#13	24.18	25.28	30.00	PASS
Band41	5MHz	16QAM	41565	25RB#0	24.20	25.30	30.00	PASS
Band41	10MHz	QPSK	39700	1RB#24	25.98	27.08	30.00	PASS
Band41	10MHz	QPSK	39700	1RB#49	26.12	27.22	30.00	PASS
Band41	10MHz	QPSK	39700	1RB#0	26.00	27.10	30.00	PASS
Band41	10MHz	QPSK	39700	25RB#0	24.90	26.00	30.00	PASS
Band41	10MHz	QPSK	39700	25RB#12	24.93	26.03	30.00	PASS
Band41	10MHz	QPSK	39700	25RB#25	24.98	26.08	30.00	PASS
Band41	10MHz	QPSK	39700	50RB#0	25.02	26.12	30.00	PASS
Band41	10MHz	QPSK	40620	1RB#0	26.29	27.39	30.00	PASS
Band41	10MHz	QPSK	40620	1RB#49	26.26	27.36	30.00	PASS
Band41	10MHz	QPSK	40620	1RB#24	26.19	27.29	30.00	PASS
Band41	10MHz	QPSK	40620	25RB#25	25.24	26.34	30.00	PASS
Band41	10MHz	QPSK	40620	25RB#0	25.29	26.39	30.00	PASS
Band41	10MHz	QPSK	40620	25RB#12	25.20	26.30	30.00	PASS
Band41	10MHz	QPSK	40620	50RB#0	25.09	26.19	30.00	PASS
Band41	10MHz	QPSK	41540	1RB#24	26.31	27.41	30.00	PASS
Band41	10MHz	QPSK	41540	1RB#0	25.98	27.08	30.00	PASS
Band41	10MHz	QPSK	41540	1RB#49	26.10	27.20	30.00	PASS
Band41	10MHz	QPSK	41540	25RB#0	25.45	26.55	30.00	PASS
Band41	10MHz	QPSK	41540	25RB#25	25.17	26.27	30.00	PASS
Band41	10MHz	QPSK	41540	25RB#12	25.18	26.28	30.00	PASS
Band41	10MHz	QPSK	41540	50RB#0	25.15	26.25	30.00	PASS
Band41	10MHz	16QAM	39700	1RB#49	24.84	25.94	30.00	PASS
Band41	10MHz	16QAM	39700	1RB#0	24.81	25.91	30.00	PASS
Band41	10MHz	16QAM	39700	1RB#24	25.01	26.11	30.00	PASS
Band41	10MHz	16QAM	39700	25RB#25	24.20	25.30	30.00	PASS
Band41	10MHz	16QAM	39700	25RB#12	24.10	25.20	30.00	PASS
Band41	10MHz	16QAM	39700	25RB#0	24.09	25.19	30.00	PASS
Band41	10MHz	16QAM	39700	50RB#0	24.05	25.15	30.00	PASS
Band41	10MHz	16QAM	40620	1RB#49	25.08	26.18	30.00	PASS
Band41	10MHz	16QAM	40620	1RB#0	25.15	26.25	30.00	PASS
Band41	10MHz	16QAM	40620	1RB#24	24.90	26.00	30.00	PASS
Band41	10MHz	16QAM	40620	25RB#25	24.20	25.30	30.00	PASS
Band41	10MHz	16QAM	40620	25RB#0	24.31	25.41	30.00	PASS
Band41	10MHz	16QAM	40620	25RB#12	24.25	25.35	30.00	PASS
Band41	10MHz	16QAM	40620	50RB#0	24.34	25.44	30.00	PASS
Band41	10MHz	16QAM	41540	1RB#24	25.07	26.17	30.00	PASS
Band41	10MHz	16QAM	41540	1RB#0	24.80	25.90	30.00	PASS
Band41	10MHz	16QAM	41540	1RB#49	24.72	25.82	30.00	PASS
Band41	10MHz	16QAM	41540	25RB#0	24.14	25.24	30.00	PASS
Band41	10MHz	16QAM	41540	25RB#12	24.31	25.41	30.00	PASS
Band41	10MHz	16QAM	41540	25RB#25	24.31	25.41	30.00	PASS
Band41	10MHz	16QAM	41540	50RB#0	24.38	25.48	30.00	PASS
Band41	15MHz	QPSK	39725	1RB#0	25.82	26.92	30.00	PASS



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Band41	15MHz	QPSK	39725	1RB#38	25.72	26.82	30.00	PASS
Band41	15MHz	QPSK	39725	1RB#74	25.75	26.85	30.00	PASS
Band41	15MHz	QPSK	39725	36RB#0	24.80	25.90	30.00	PASS
Band41	15MHz	QPSK	39725	36RB#18	24.92	26.02	30.00	PASS
Band41	15MHz	QPSK	39725	36RB#39	25.01	26.11	30.00	PASS
Band41	15MHz	QPSK	39725	75RB#0	24.91	26.01	30.00	PASS
Band41	15MHz	QPSK	40620	1RB#0	26.19	27.29	30.00	PASS
Band41	15MHz	QPSK	40620	1RB#74	26.14	27.24	30.00	PASS
Band41	15MHz	QPSK	40620	1RB#38	26.06	27.16	30.00	PASS
Band41	15MHz	QPSK	40620	36RB#0	25.31	26.41	30.00	PASS
Band41	15MHz	QPSK	40620	36RB#18	25.17	26.27	30.00	PASS
Band41	15MHz	QPSK	40620	36RB#39	25.21	26.31	30.00	PASS
Band41	15MHz	QPSK	40620	75RB#0	25.28	26.38	30.00	PASS
Band41	15MHz	QPSK	41515	1RB#74	25.98	27.08	30.00	PASS
Band41	15MHz	QPSK	41515	1RB#0	26.44	27.54	30.00	PASS
Band41	15MHz	QPSK	41515	1RB#38	26.26	27.36	30.00	PASS
Band41	15MHz	QPSK	41515	36RB#0	25.11	26.21	30.00	PASS
Band41	15MHz	QPSK	41515	36RB#18	25.23	26.33	30.00	PASS
Band41	15MHz	QPSK	41515	36RB#39	25.22	26.32	30.00	PASS
Band41	15MHz	QPSK	41515	75RB#0	25.11	26.21	30.00	PASS
Band41	15MHz	16QAM	39725	1RB#0	24.54	25.64	30.00	PASS
Band41	15MHz	16QAM	39725	1RB#38	24.59	25.69	30.00	PASS
Band41	15MHz	16QAM	39725	1RB#74	24.48	25.58	30.00	PASS
Band41	15MHz	16QAM	39725	36RB#18	24.01	25.11	30.00	PASS
Band41	15MHz	16QAM	39725	36RB#0	24.05	25.15	30.00	PASS
Band41	15MHz	16QAM	39725	36RB#39	24.11	25.21	30.00	PASS
Band41	15MHz	16QAM	39725	75RB#0	23.90	25.00	30.00	PASS
Band41	15MHz	16QAM	40620	1RB#0	25.01	26.11	30.00	PASS
Band41	15MHz	16QAM	40620	1RB#38	24.89	25.99	30.00	PASS
Band41	15MHz	16QAM	40620	1RB#74	24.71	25.81	30.00	PASS
Band41	15MHz	16QAM	40620	36RB#39	24.31	25.41	30.00	PASS
Band41	15MHz	16QAM	40620	36RB#0	24.45	25.55	30.00	PASS
Band41	15MHz	16QAM	40620	36RB#18	24.27	25.37	30.00	PASS
Band41	15MHz	16QAM	40620	75RB#0	24.23	25.33	30.00	PASS
Band41	15MHz	16QAM	41515	1RB#38	24.65	25.75	30.00	PASS
Band41	15MHz	16QAM	41515	1RB#0	25.03	26.13	30.00	PASS
Band41	15MHz	16QAM	41515	1RB#74	24.71	25.81	30.00	PASS
Band41	15MHz	16QAM	41515	36RB#0	24.32	25.42	30.00	PASS
Band41	15MHz	16QAM	41515	36RB#18	24.19	25.29	30.00	PASS
Band41	15MHz	16QAM	41515	36RB#39	24.35	25.45	30.00	PASS
Band41	15MHz	16QAM	41515	75RB#0	24.17	25.27	30.00	PASS
Band41	20MHz	QPSK	39750	1RB#99	25.87	26.97	30.00	PASS
Band41	20MHz	QPSK	39750	1RB#49	25.88	26.98	30.00	PASS
Band41	20MHz	QPSK	39750	1RB#0	25.77	26.87	30.00	PASS
Band41	20MHz	QPSK	39750	50RB#0	24.87	25.97	30.00	PASS
Band41	20MHz	QPSK	39750	50RB#25	24.94	26.04	30.00	PASS
Band41	20MHz	QPSK	39750	50RB#50	25.03	26.13	30.00	PASS



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Band41	20MHz	QPSK	39750	100RB#0	24.96	26.06	30.00	PASS
Band41	20MHz	QPSK	40620	1RB#0	26.29	27.39	30.00	PASS
Band41	20MHz	QPSK	40620	1RB#99	26.37	27.47	30.00	PASS
Band41	20MHz	QPSK	40620	1RB#49	26.17	27.27	30.00	PASS
Band41	20MHz	QPSK	40620	50RB#50	25.20	26.30	30.00	PASS
Band41	20MHz	QPSK	40620	50RB#0	25.28	26.38	30.00	PASS
Band41	20MHz	QPSK	40620	50RB#25	25.19	26.29	30.00	PASS
Band41	20MHz	QPSK	40620	100RB#0	25.25	26.35	30.00	PASS
Band41	20MHz	QPSK	41490	1RB#49	26.31	27.41	30.00	PASS
Band41	20MHz	QPSK	41490	1RB#0	26.19	27.29	30.00	PASS
Band41	20MHz	QPSK	41490	1RB#99	25.94	27.04	30.00	PASS
Band41	20MHz	QPSK	41490	50RB#0	25.03	26.13	30.00	PASS
Band41	20MHz	QPSK	41490	50RB#50	25.15	26.25	30.00	PASS
Band41	20MHz	QPSK	41490	50RB#25	25.30	26.40	30.00	PASS
Band41	20MHz	QPSK	41490	100RB#0	25.30	26.40	30.00	PASS
Band41	20MHz	16QAM	39750	1RB#99	24.57	25.67	30.00	PASS
Band41	20MHz	16QAM	39750	1RB#0	24.55	25.65	30.00	PASS
Band41	20MHz	16QAM	39750	1RB#49	24.92	26.02	30.00	PASS
Band41	20MHz	16QAM	39750	50RB#50	23.89	24.99	30.00	PASS
Band41	20MHz	16QAM	39750	50RB#25	23.91	25.01	30.00	PASS
Band41	20MHz	16QAM	39750	50RB#0	23.92	25.02	30.00	PASS
Band41	20MHz	16QAM	39750	100RB#0	23.99	25.09	30.00	PASS
Band41	20MHz	16QAM	40620	1RB#99	24.91	26.01	30.00	PASS
Band41	20MHz	16QAM	40620	1RB#0	24.87	25.97	30.00	PASS
Band41	20MHz	16QAM	40620	1RB#49	25.10	26.20	30.00	PASS
Band41	20MHz	16QAM	40620	50RB#50	24.23	25.33	30.00	PASS
Band41	20MHz	16QAM	40620	50RB#0	24.41	25.51	30.00	PASS
Band41	20MHz	16QAM	40620	50RB#25	24.15	25.25	30.00	PASS
Band41	20MHz	16QAM	40620	100RB#0	24.29	25.39	30.00	PASS
Band41	20MHz	16QAM	41490	1RB#49	25.06	26.16	30.00	PASS
Band41	20MHz	16QAM	41490	1RB#0	24.84	25.94	30.00	PASS
Band41	20MHz	16QAM	41490	1RB#99	24.67	25.77	30.00	PASS
Band41	20MHz	16QAM	41490	50RB#0	24.20	25.30	30.00	PASS
Band41	20MHz	16QAM	41490	50RB#25	24.16	25.26	30.00	PASS
Band41	20MHz	16QAM	41490	50RB#50	24.10	25.20	30.00	PASS
Band41	20MHz	16QAM	41490	100RB#0	24.19	25.29	30.00	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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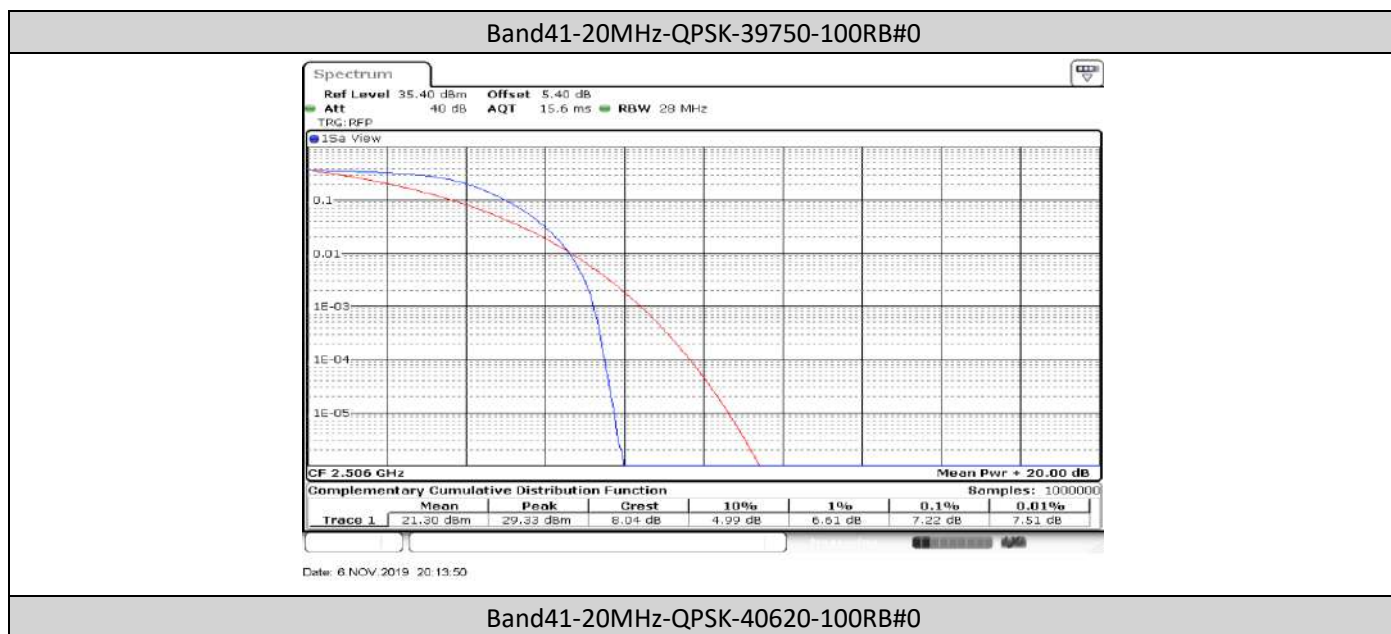


2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band41	20MHz	QPSK	39750	100RB#0	8.46	13	PASS
Band41	20MHz	QPSK	40620	100RB#0	7.07	13	PASS
Band41	20MHz	QPSK	41490	100RB#0	8.93	13	PASS
Band41	20MHz	16QAM	39750	100RB#0	8.09	13	PASS
Band41	20MHz	16QAM	40620	100RB#0	8.17	13	PASS
Band41	20MHz	16QAM	41490	100RB#0	8.90	13	PASS

2.2. Test Plots



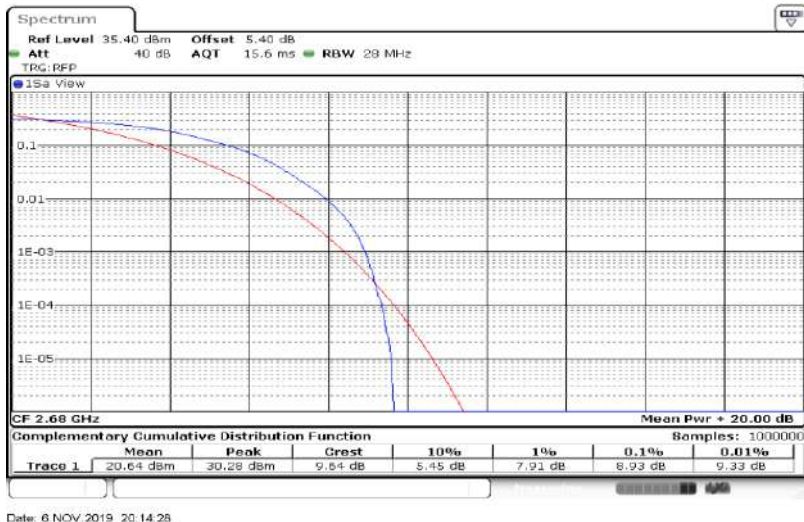
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Band41-20MHz-QPSK-41490-100RB#0

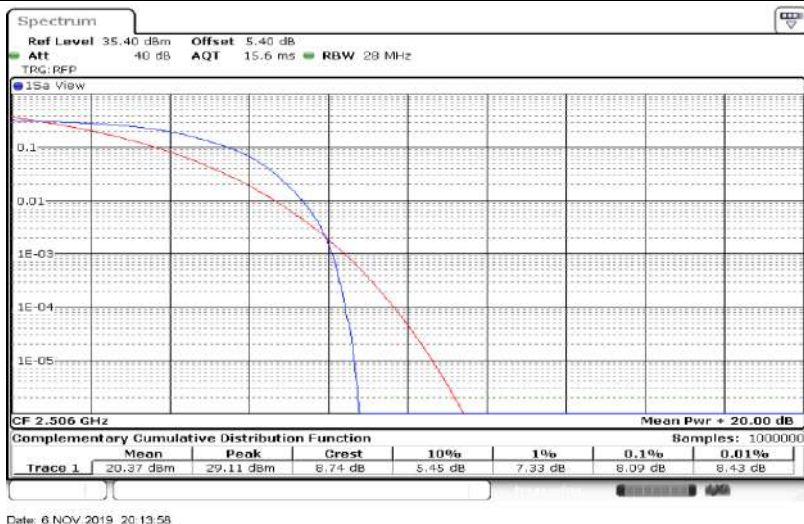


Band41-20MHz-16QAM-39750-100RB#0



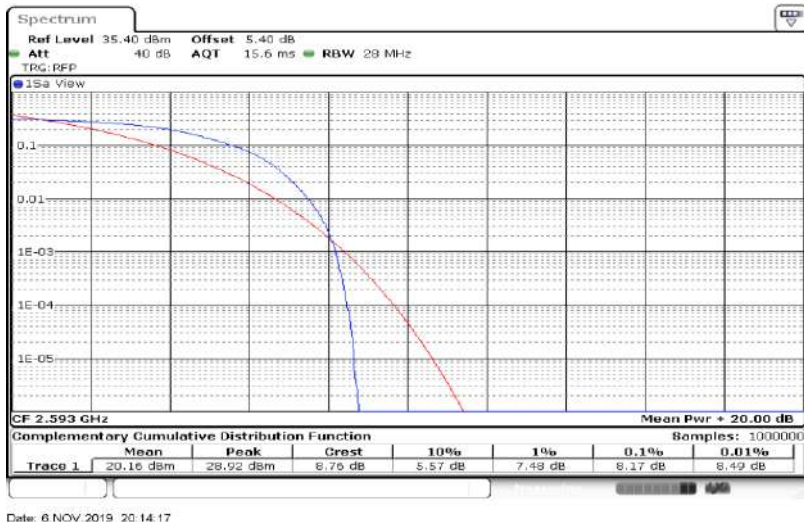
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Band41-20MHz-16QAM-40620-100RB#0



Date: 6 NOV 2019 20:14:17

Band41-20MHz-16QAM-41490-100RB#0

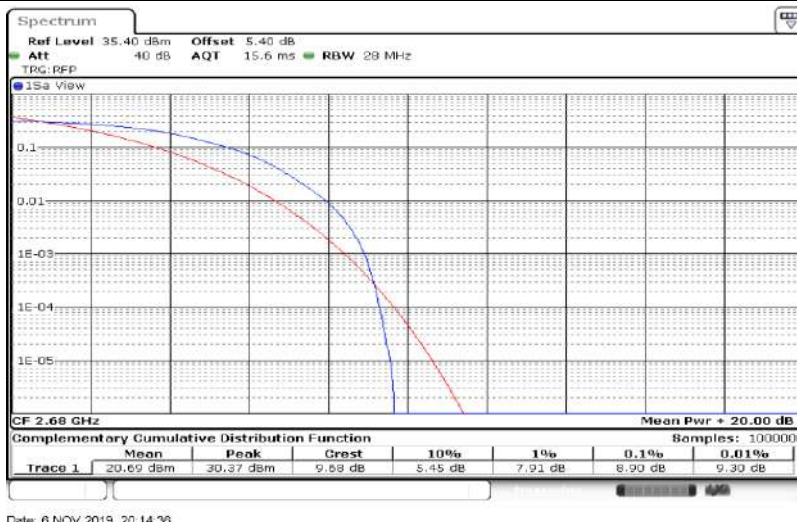


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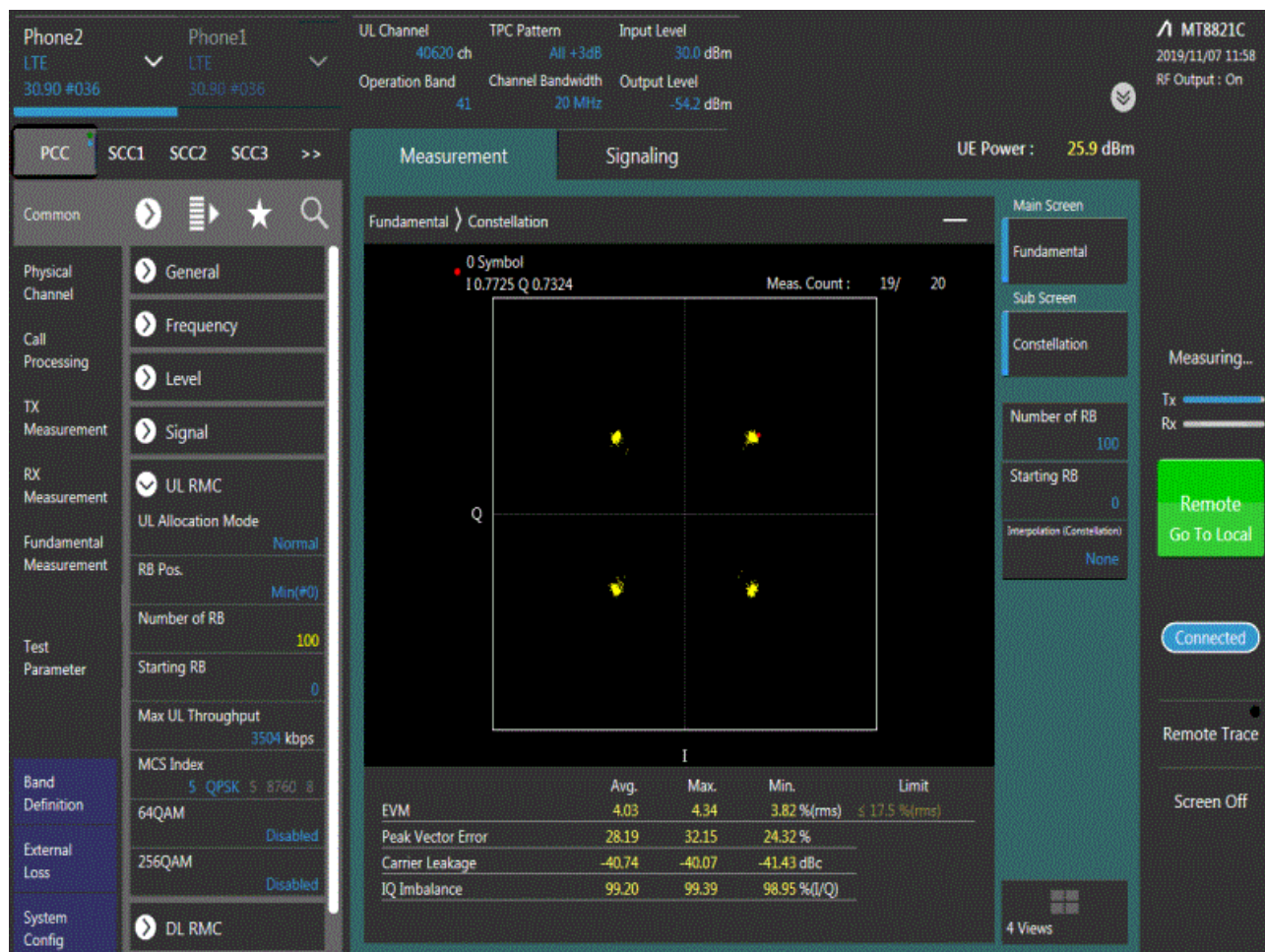
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3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 20MHz

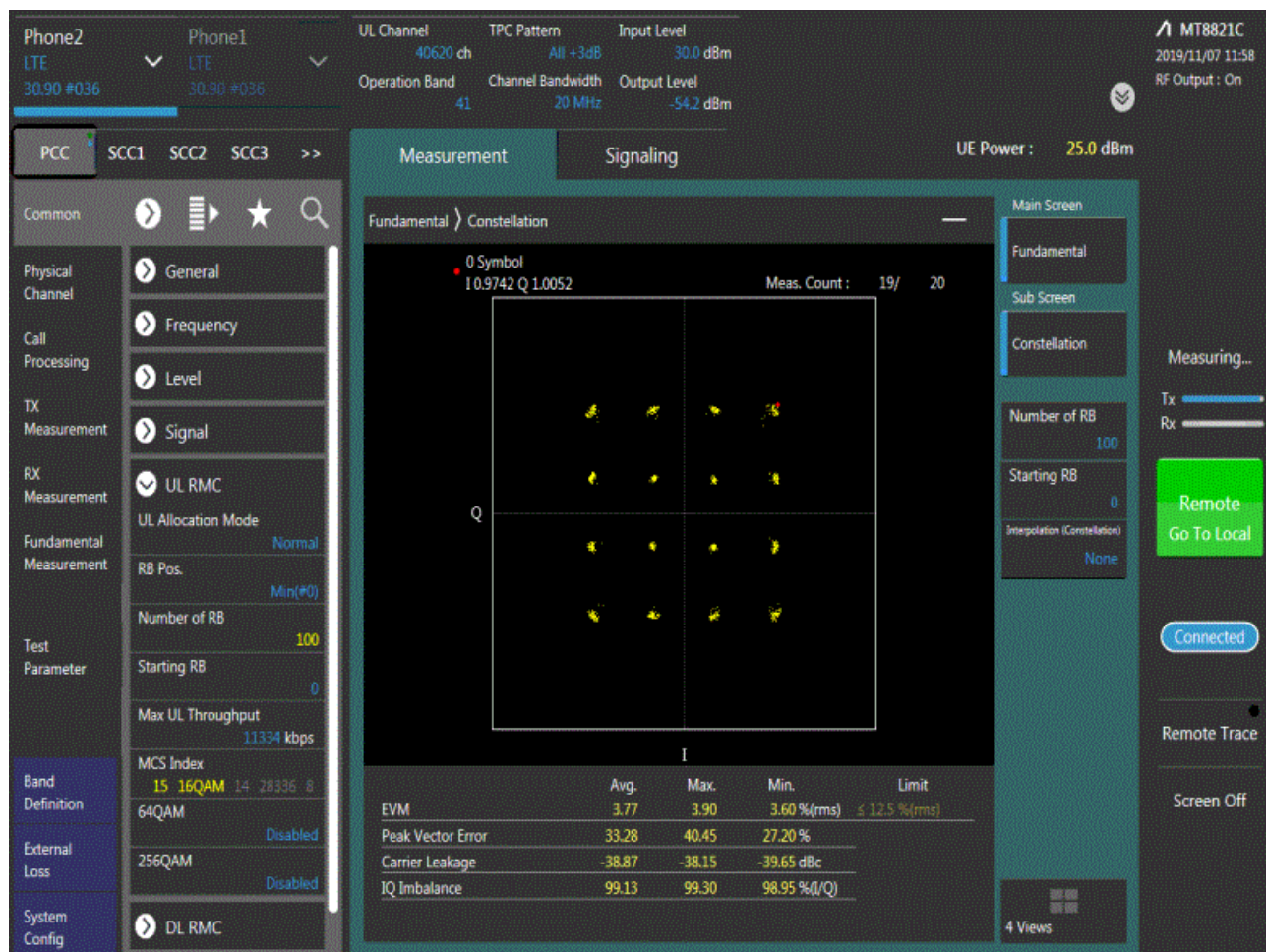
3.1.1. Test Channel = MCH



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3.2. Test Mode = LTE /TM2 20MHz

3.2.1. 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	4.486	5.040	PASS
Band41	5MHz	QPSK	40620	25RB#0	4.496	5.370	PASS
Band41	5MHz	QPSK	41565	25RB#0	4.476	4.930	PASS
Band41	5MHz	16QAM	39675	25RB#0	4.486	5.010	PASS
Band41	5MHz	16QAM	40620	25RB#0	4.466	5.540	PASS
Band41	5MHz	16QAM	41565	25RB#0	4.466	4.900	PASS
Band41	10MHz	QPSK	39700	50RB#0	8.951	10.600	PASS
Band41	10MHz	QPSK	40620	50RB#0	8.931	9.840	PASS
Band41	10MHz	QPSK	41540	50RB#0	8.931	9.900	PASS
Band41	10MHz	16QAM	39700	50RB#0	8.931	9.760	PASS
Band41	10MHz	16QAM	40620	50RB#0	8.931	9.700	PASS
Band41	10MHz	16QAM	41540	50RB#0	8.911	9.520	PASS
Band41	15MHz	QPSK	39725	75RB#0	13.487	16.230	PASS
Band41	15MHz	QPSK	40620	75RB#0	13.487	15.330	PASS
Band41	15MHz	QPSK	41515	75RB#0	13.487	16.080	PASS
Band41	15MHz	16QAM	39725	75RB#0	13.516	15.210	PASS
Band41	15MHz	16QAM	40620	75RB#0	13.516	15.360	PASS
Band41	15MHz	16QAM	41515	75RB#0	13.457	15.900	PASS
Band41	20MHz	QPSK	39750	100RB#0	17.862	19.800	PASS
Band41	20MHz	QPSK	40620	100RB#0	17.902	19.720	PASS
Band41	20MHz	QPSK	41490	100RB#0	17.902	19.920	PASS
Band41	20MHz	16QAM	39750	100RB#0	17.862	19.280	PASS
Band41	20MHz	16QAM	40620	100RB#0	17.822	19.360	PASS
Band41	20MHz	16QAM	41490	100RB#0	17.862	19.240	PASS



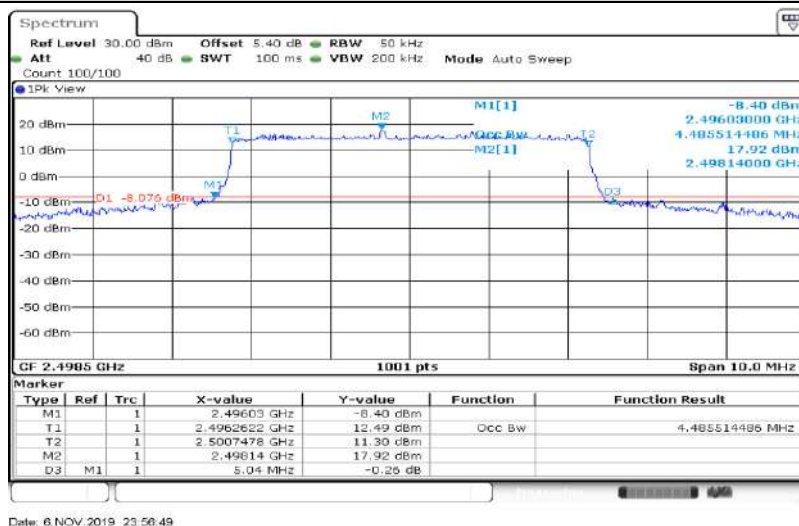
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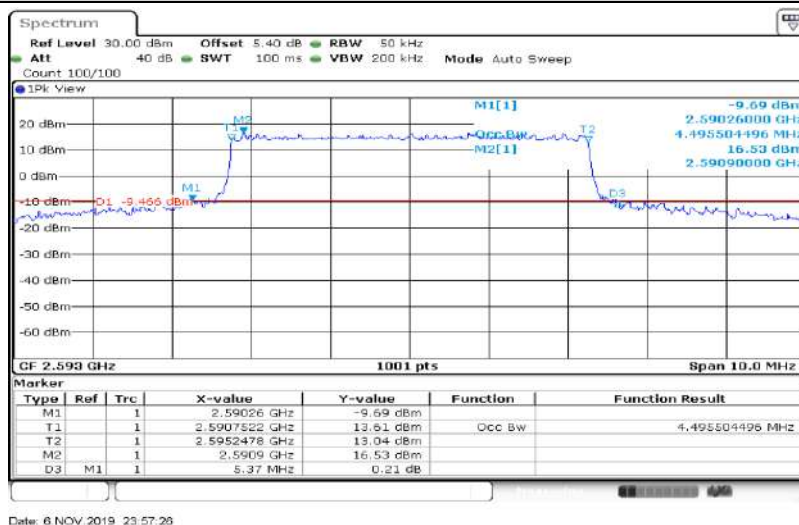
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4.2. Test Plots

Band41-5MHz-QPSK-39675-25RB#0-4.486



Band41-5MHz-QPSK-40620-25RB#0-4.496



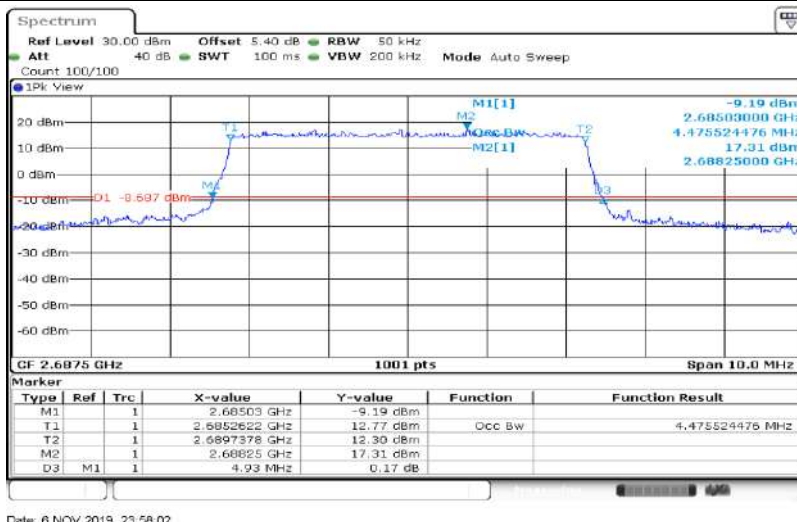
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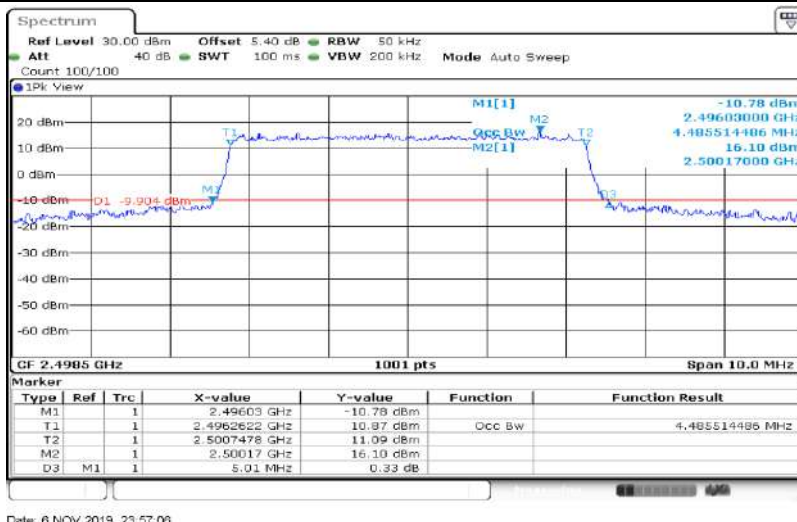
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Band41-5MHz-16QAM-39675-25RB#0-4.486



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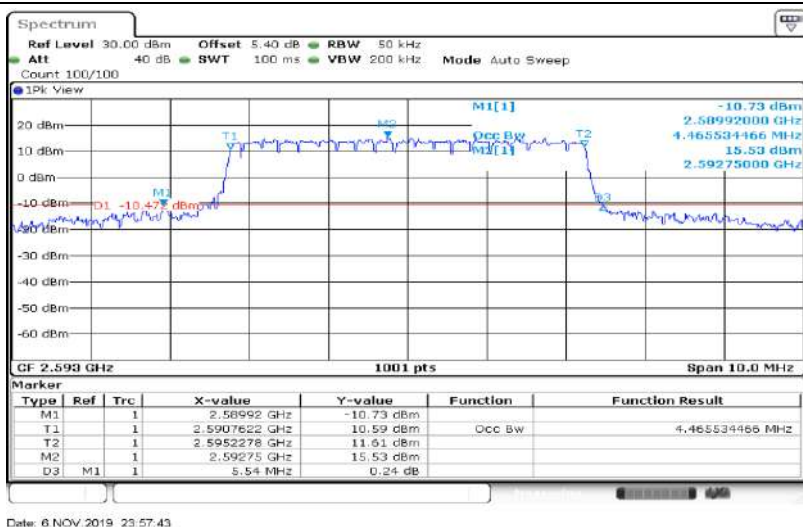
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Band41-5MHz-16QAM-41565-25RB#0-4.466

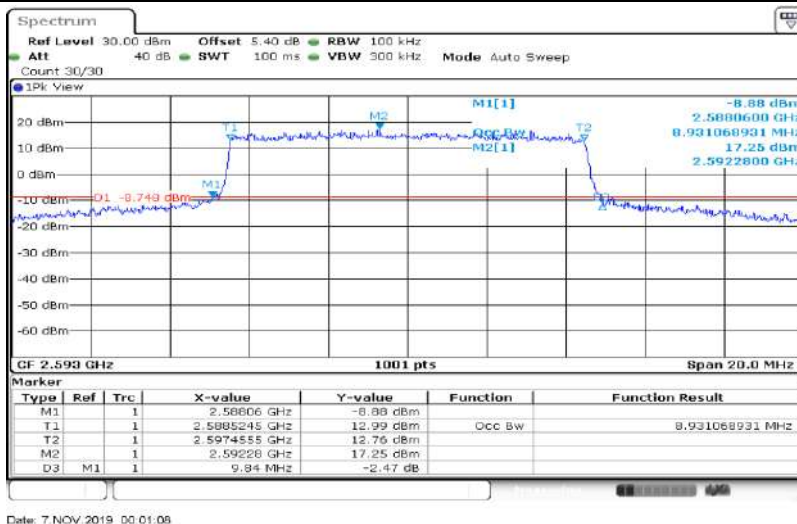


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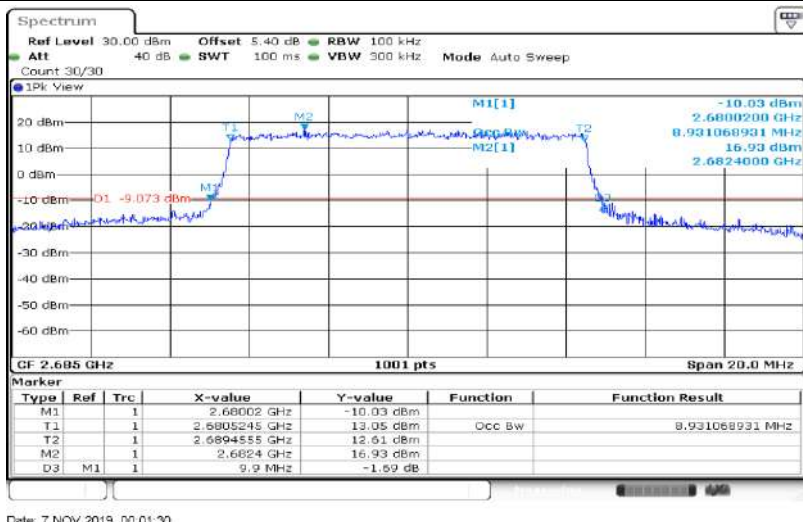


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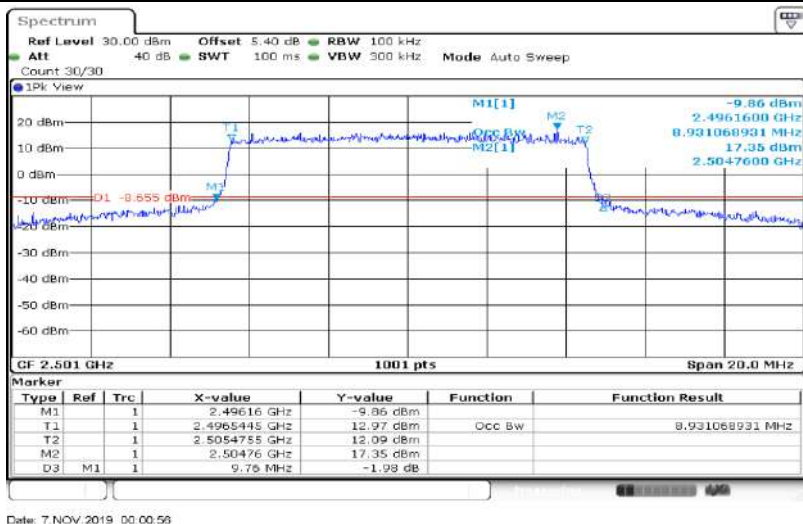


Band41-10MHz-QPSK-41540-50RB#0-8.931



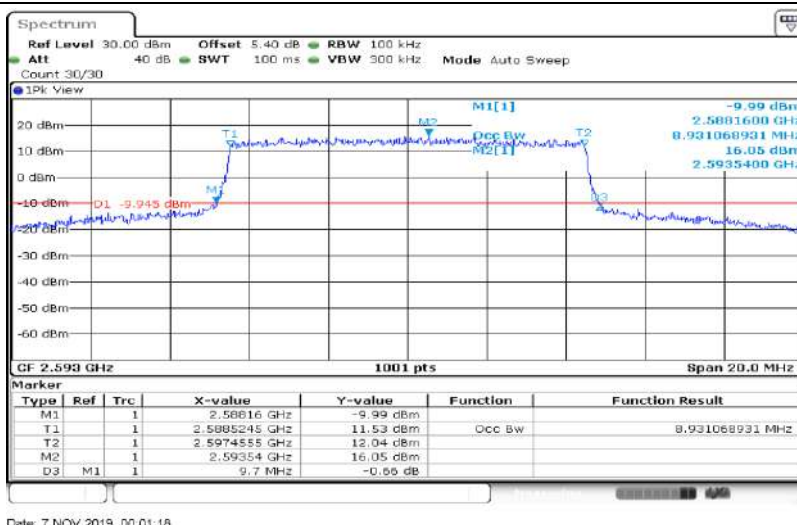


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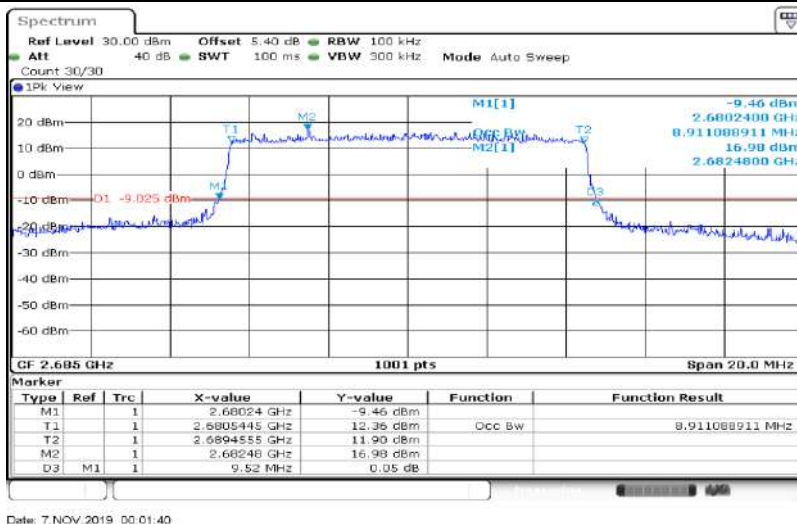


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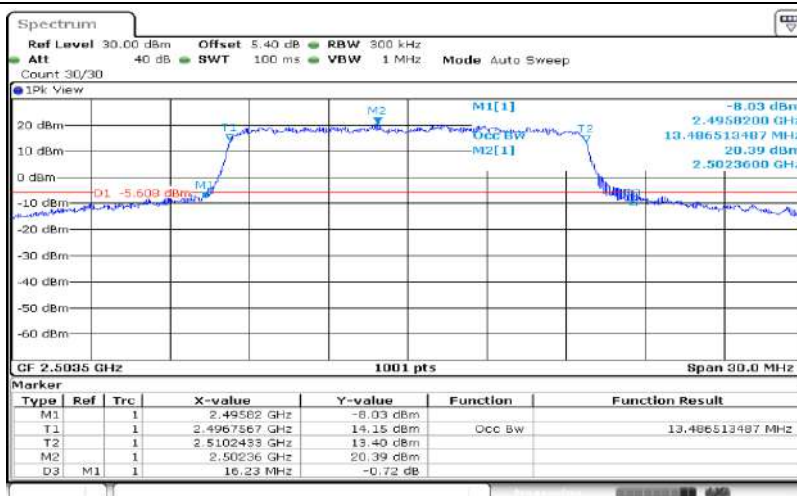


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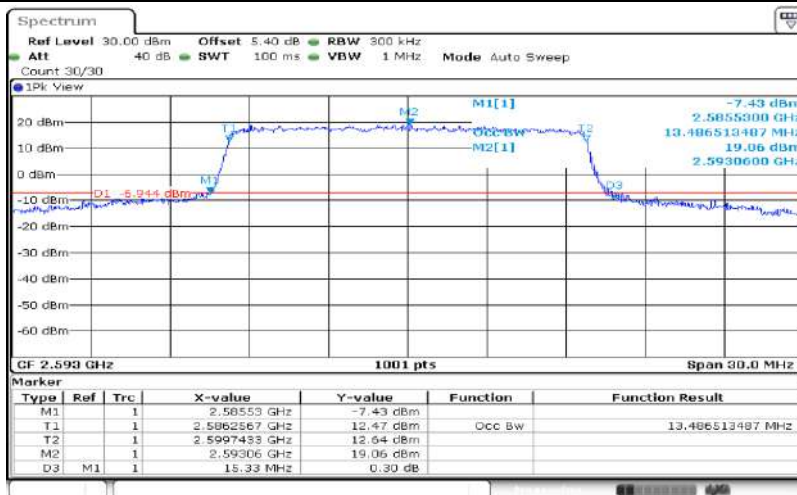
Band41-15MHz-QPSK-39725-75RB#0-13.487





Date: 7 NOV 2019 00:04:15

Band41-15MHz-QPSK-40620-75RB#0-13.487



Date: 7 NOV 2019 00:04:36

Band41-15MHz-QPSK-41515-75RB#0-13.487

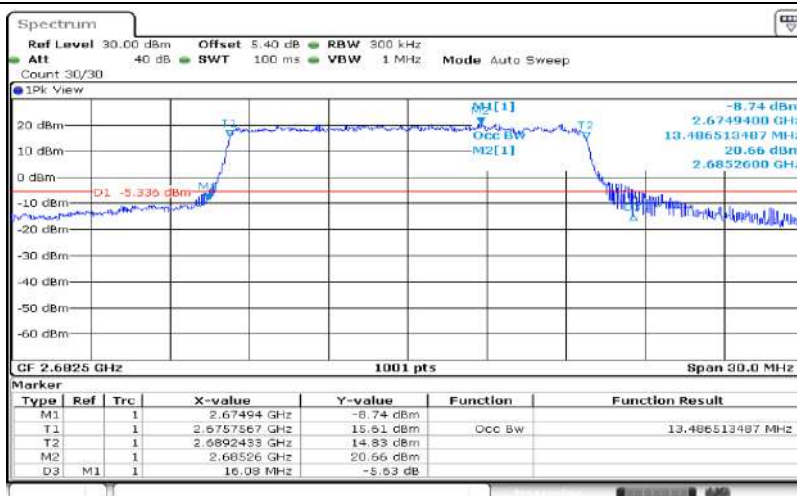


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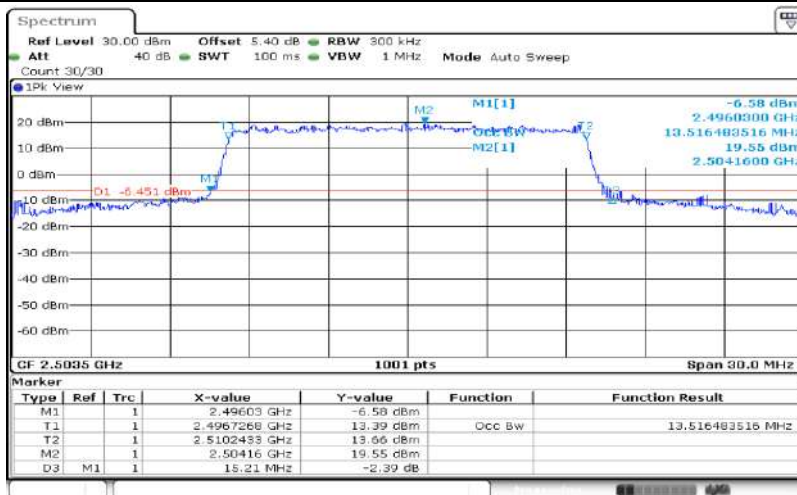
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Date: 7 NOV 2019 00:04:58

Band41-15MHz-16QAM-39725-75RB#0-13.516



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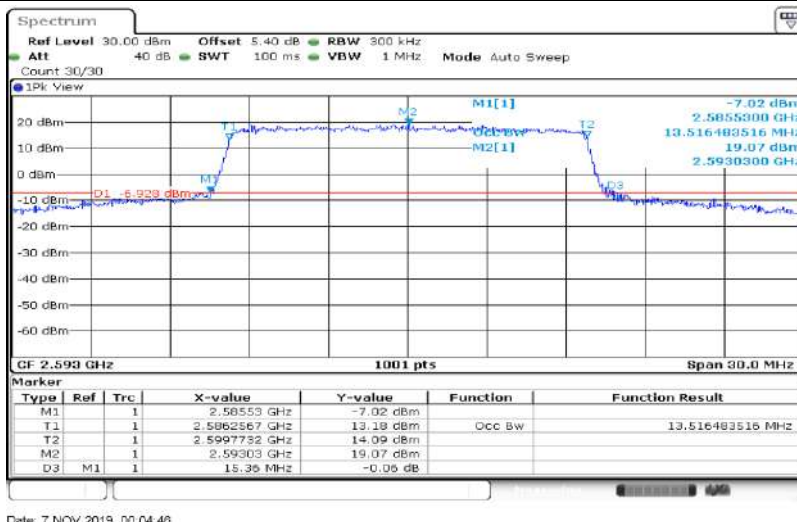
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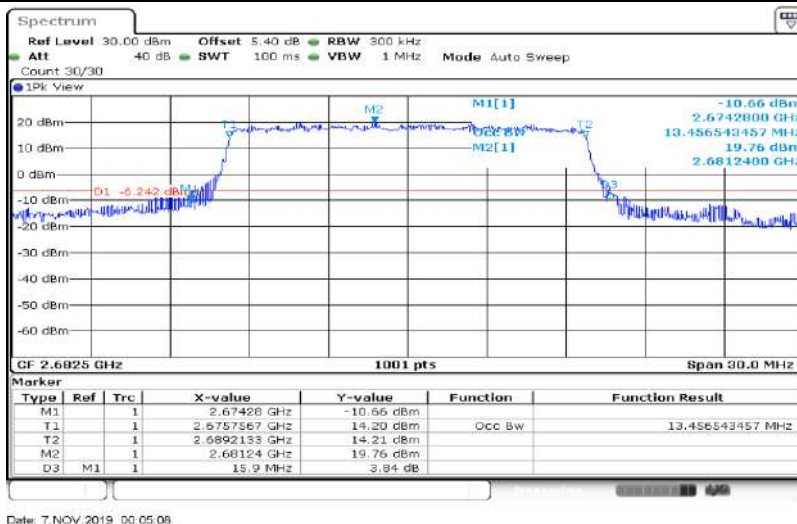
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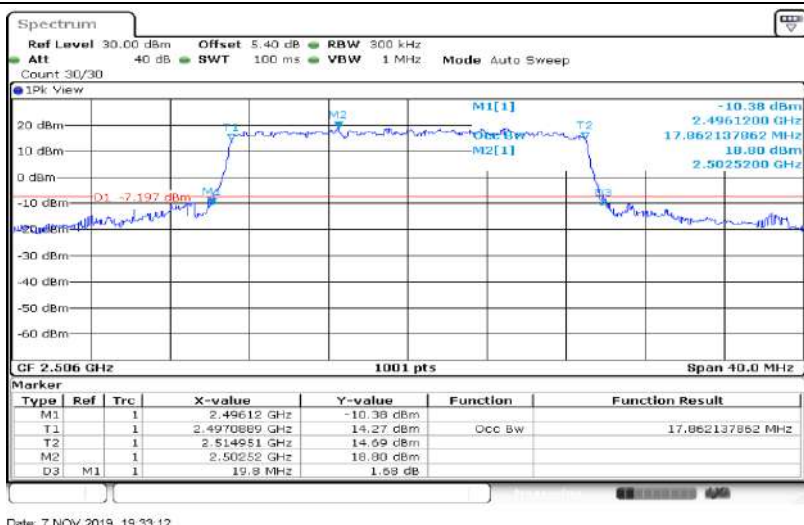


Band41-15MHz-16QAM-41515-75RB#0-13.457



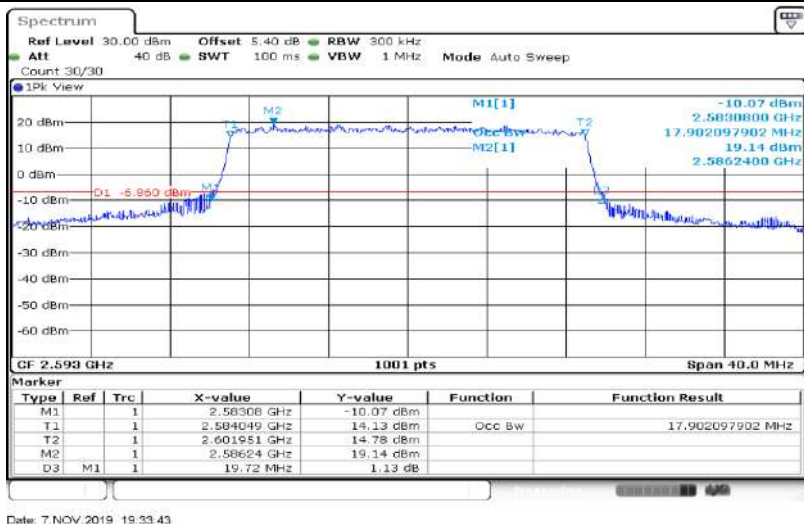
Band41-20MHz-QPSK-39750-100RB#0-17.862





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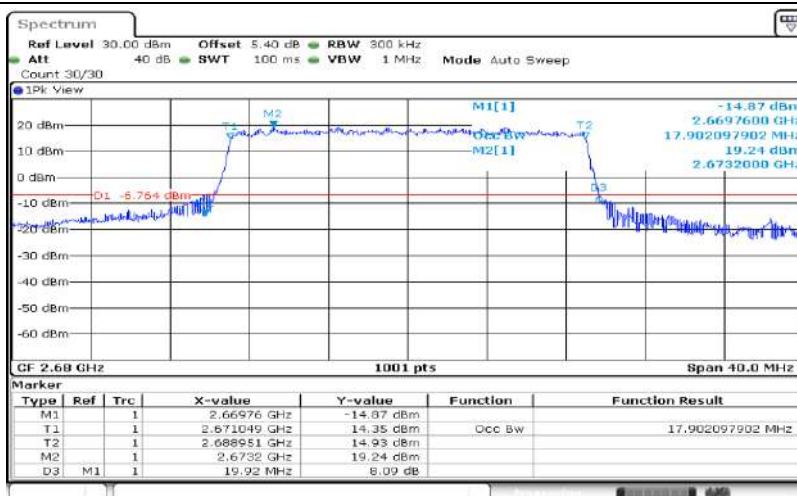
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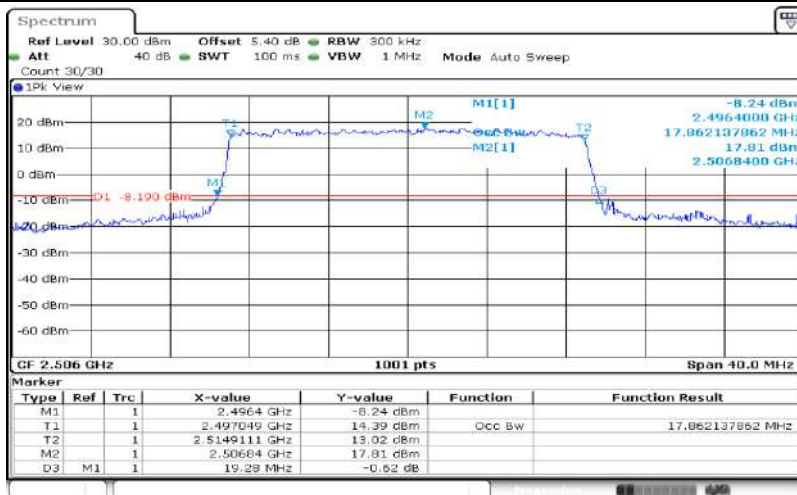
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Date: 7 NOV 2019 19:33:30

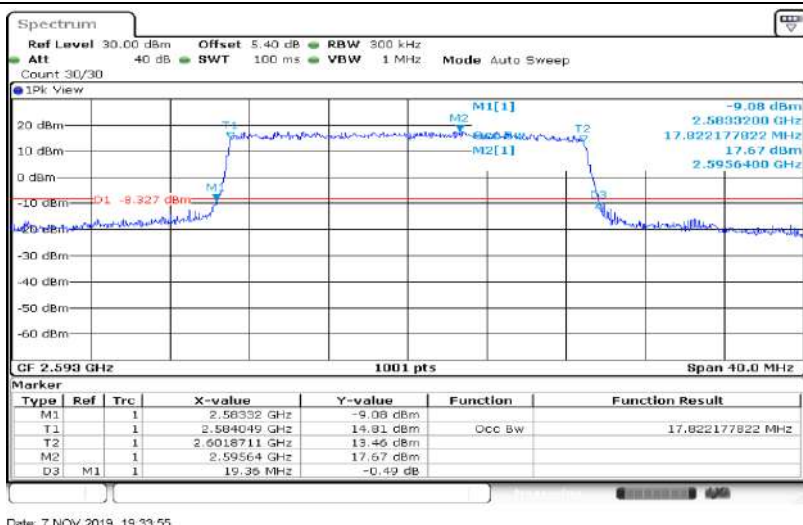
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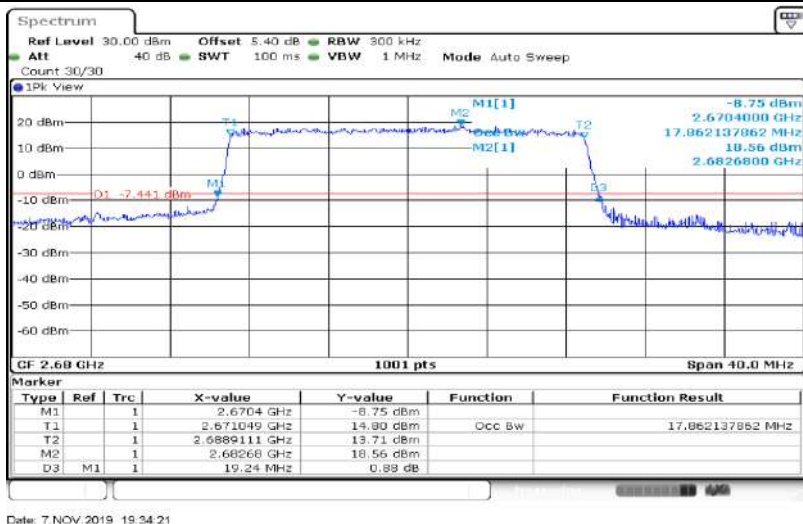
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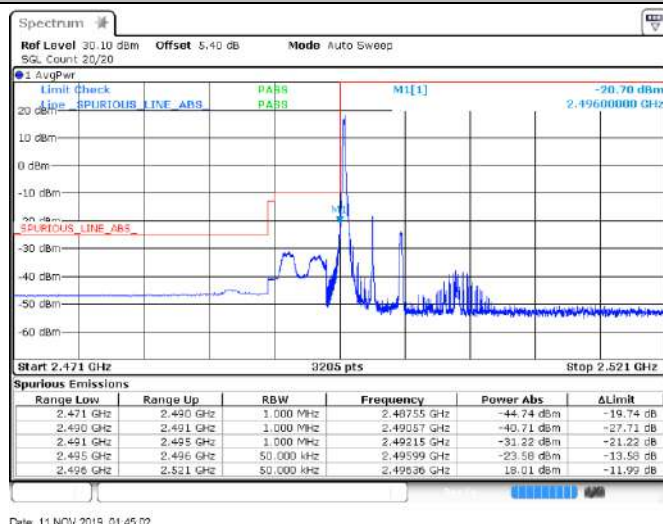
Band41-20MHz-16QAM-41490-100RB#0-17.862



5. Band Edge Compliance

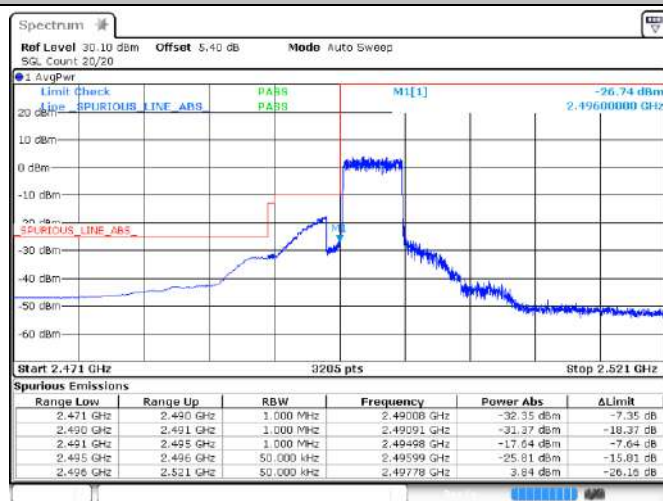
5.1. Test Plots

Band41_5MHz_QPSK_39675_1RB#0



Date: 11 NOV 2019 01:45:02

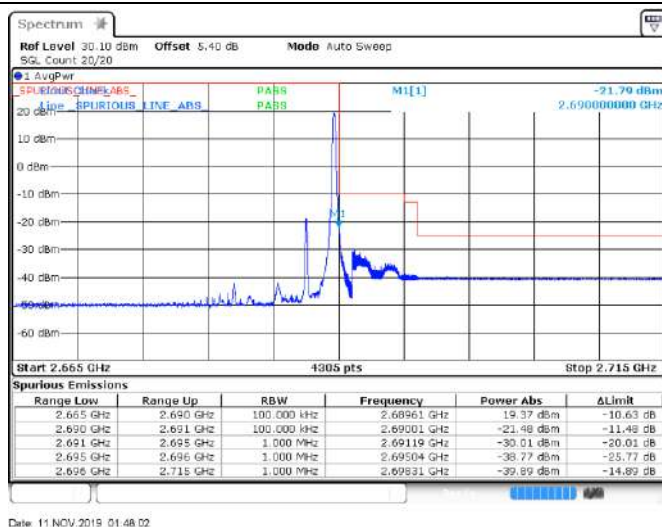
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Date: 11 NOV 2019 01:45:58

Band41_5MHz_QPSK_41565_1RB#24



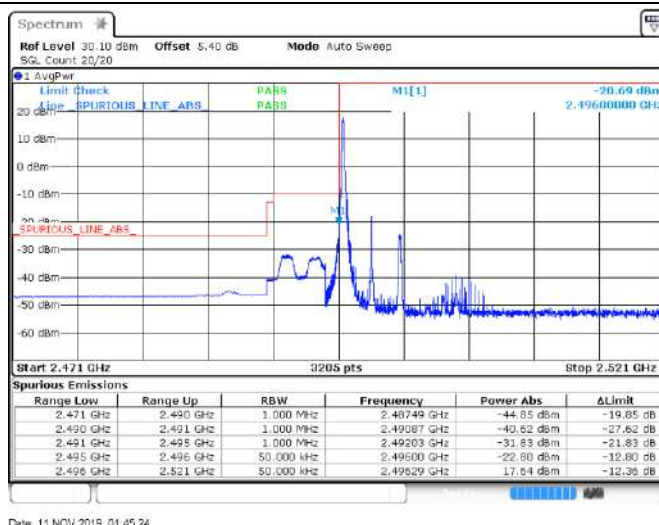


Band41_5MHz_QPSK_41565_25RB#0



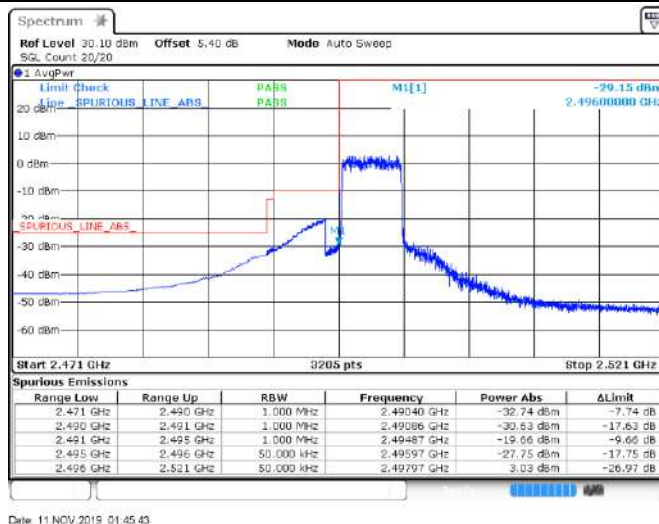
Band41_5MHz_16QAM_39675_1RB#0





Date: 11 NOV 2019 01:45:24

Band41_5MHz_16QAM_39675_25RB#0



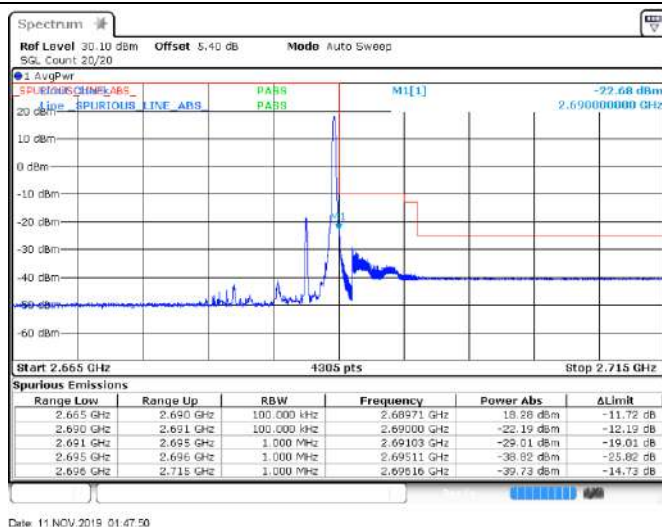
Date: 11 NOV 2019 01:45:43

Band41_5MHz_16QAM_41565_1RB#24



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Band41_5MHz_16QAM_41565_25RB#0



Band41_10MHz_QPSK_39700_1RB#0

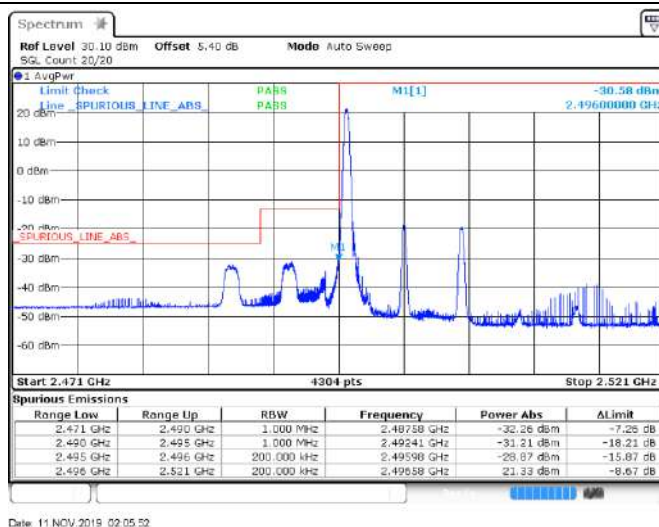


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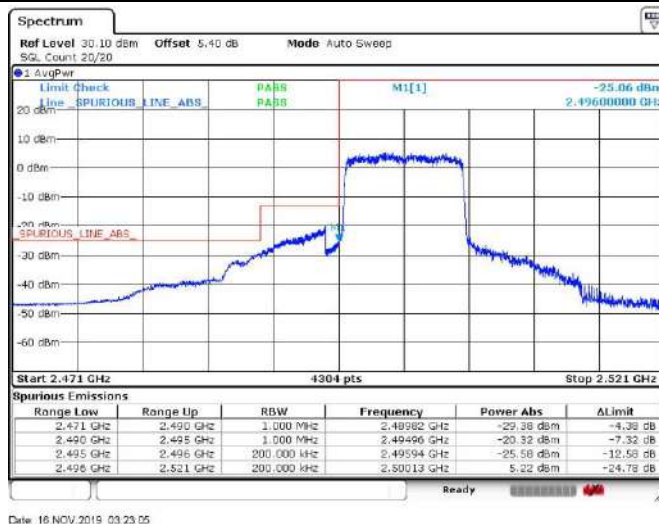
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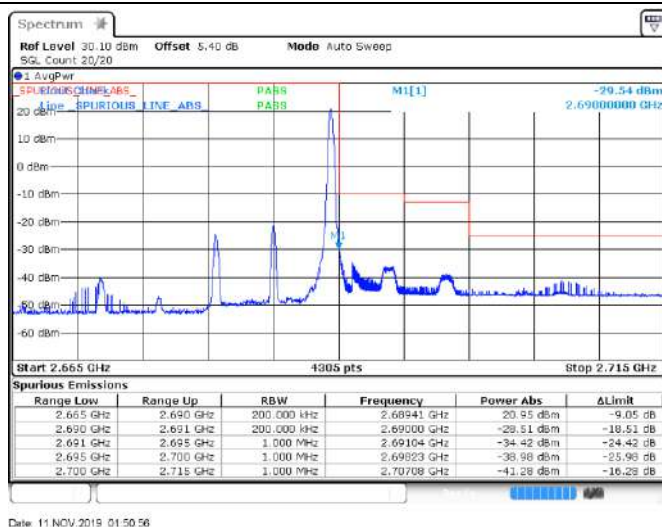


Band41_10MHz_QPSK_39700_50RB#0

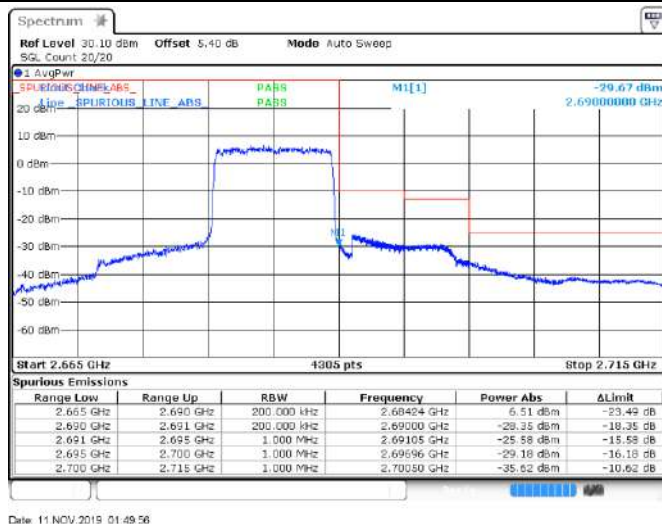


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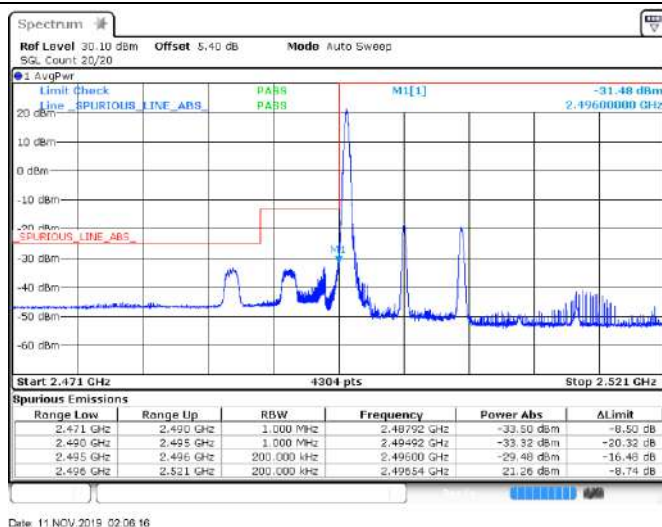


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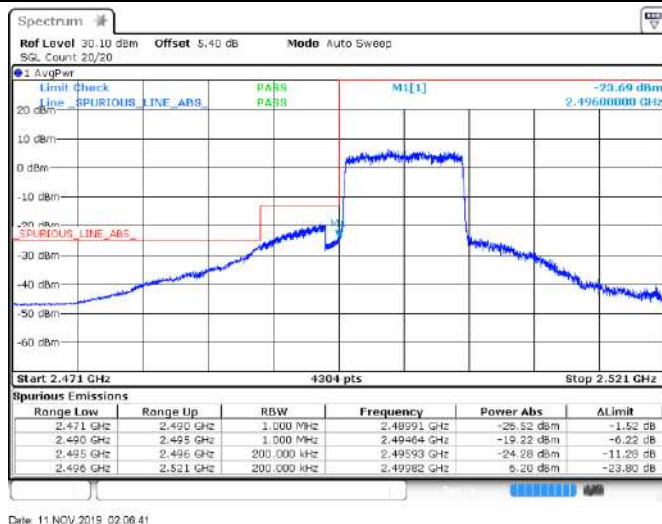


Band41_10MHz_16QAM_39700_1RB#0



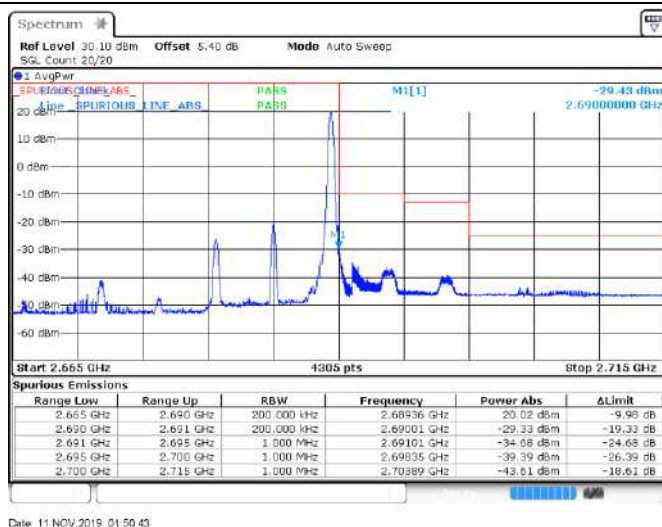


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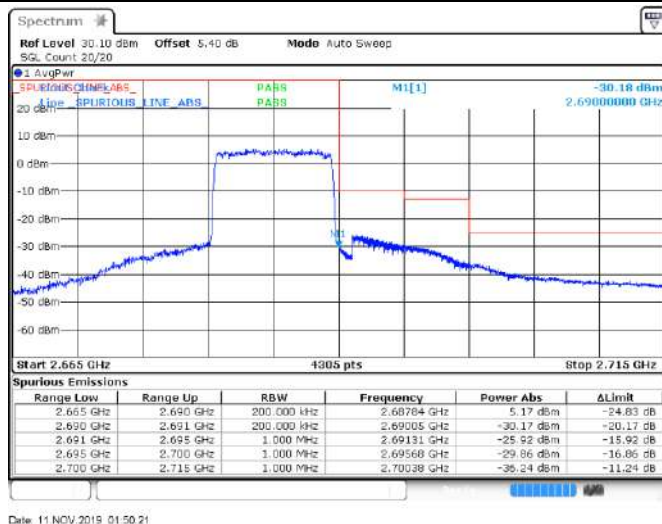


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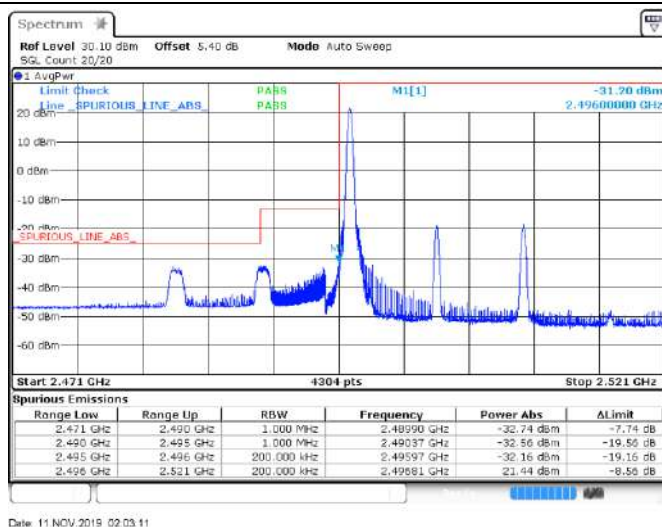


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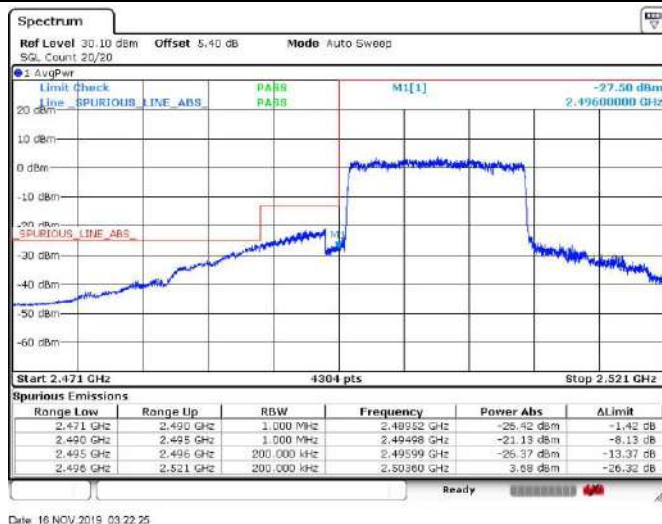


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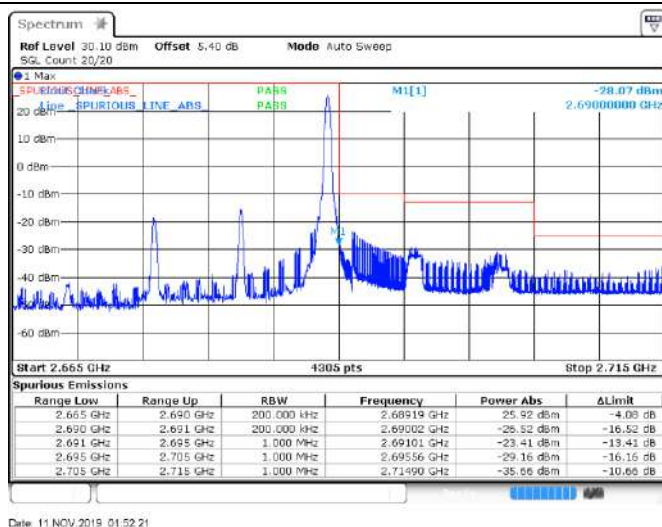


Band41_15MHz_QPSK_39725_75RB#0



Band41_15MHz_QPSK_41515_1RB#74



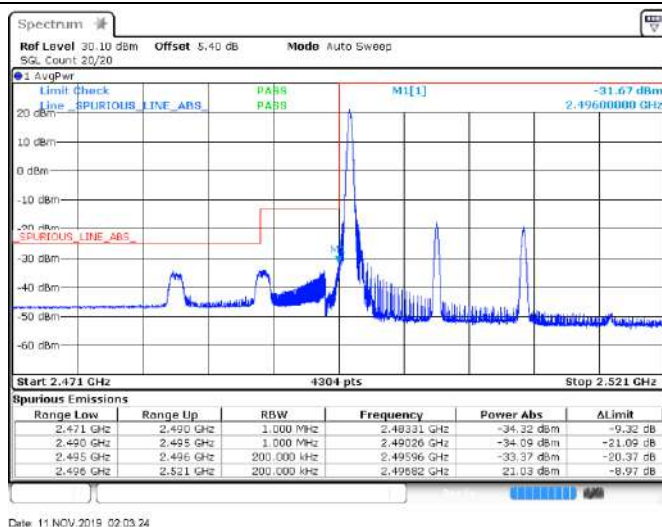


Band41_15MHz_QPSK_41515_75RB#0

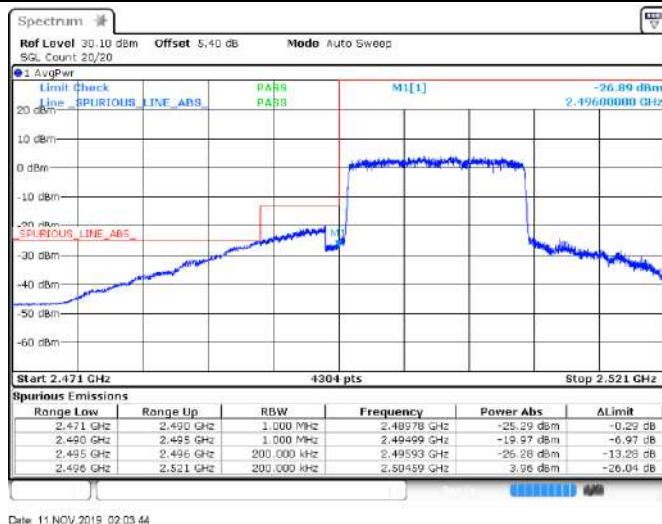


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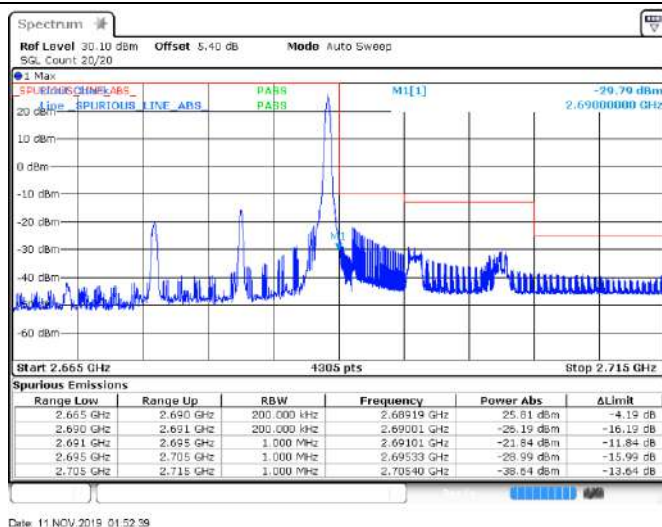


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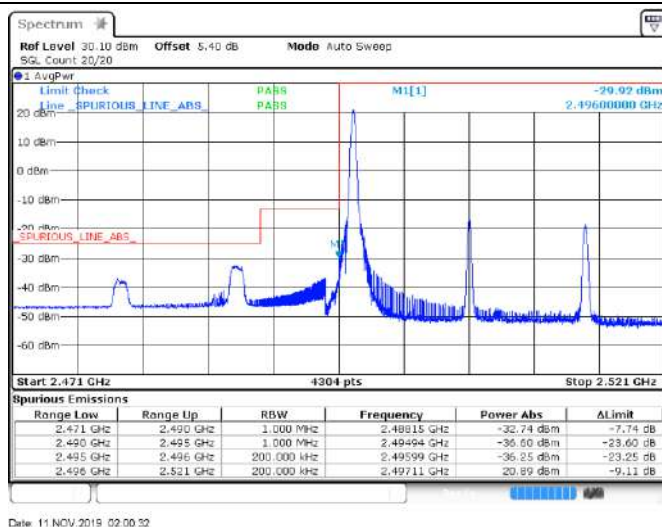


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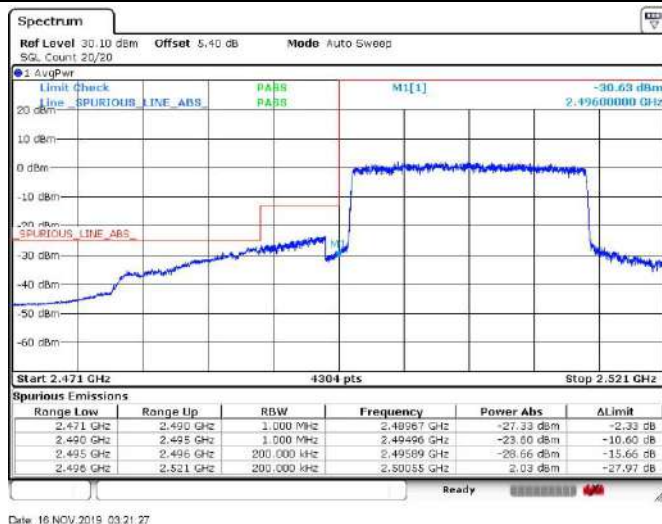


Band41_20MHz_QPSK_39750_1RB#0



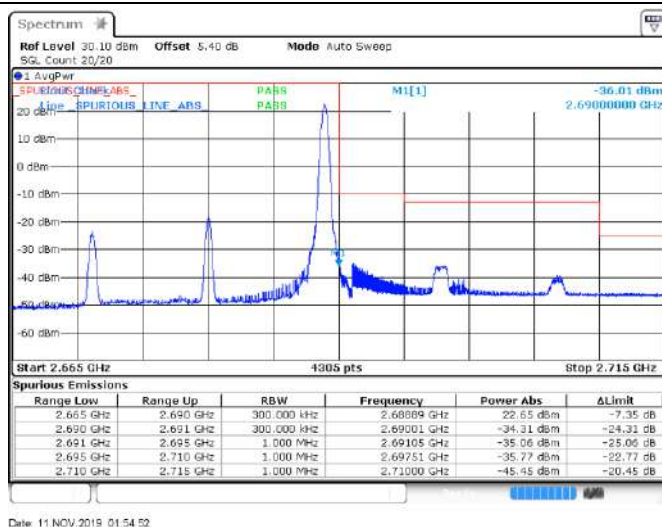


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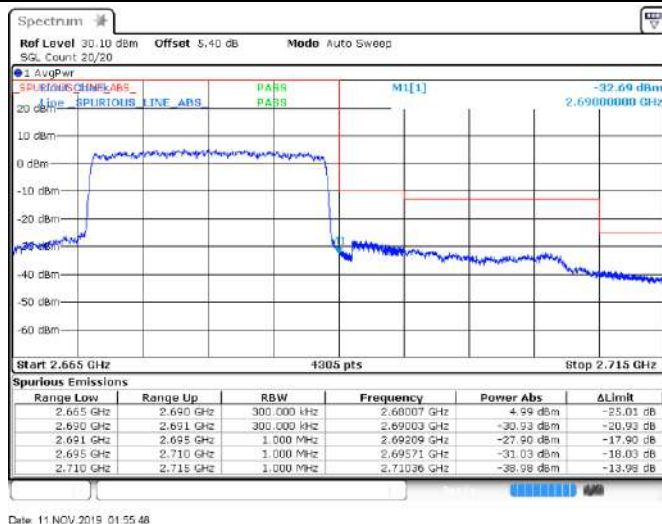


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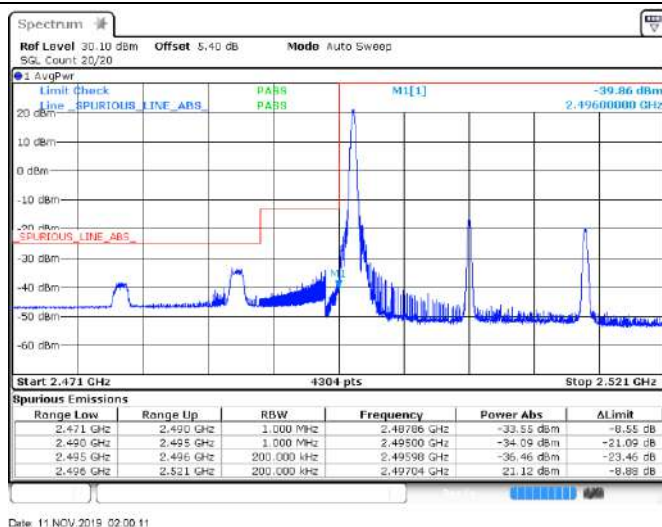


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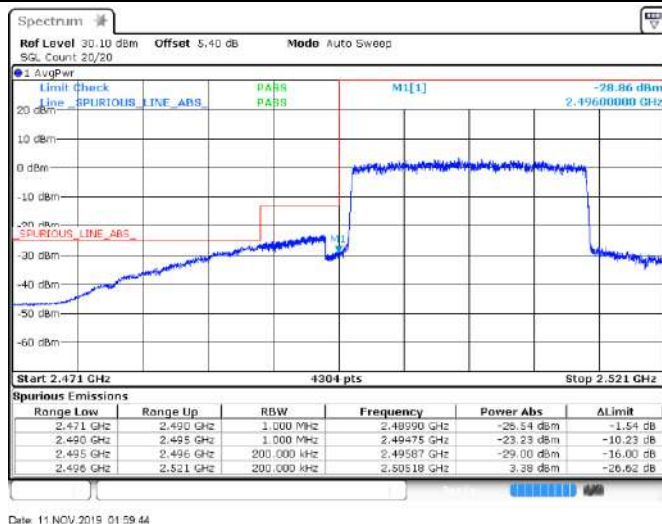


Band41_20MHz_16QAM_39750_1RB#0



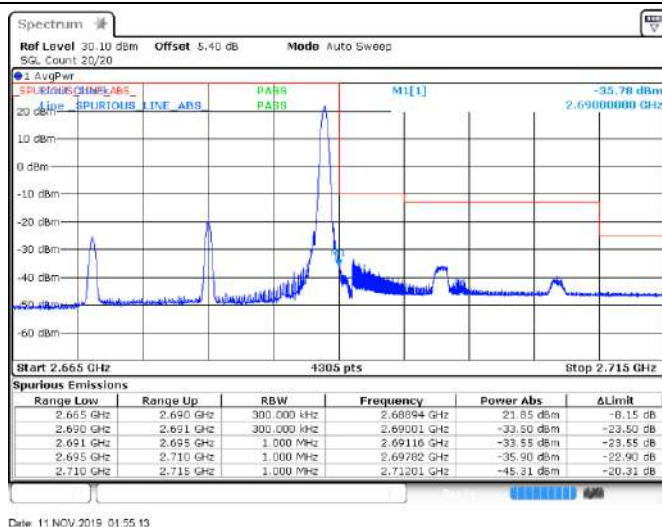


Band41_20MHz_16QAM_39750_100RB#0

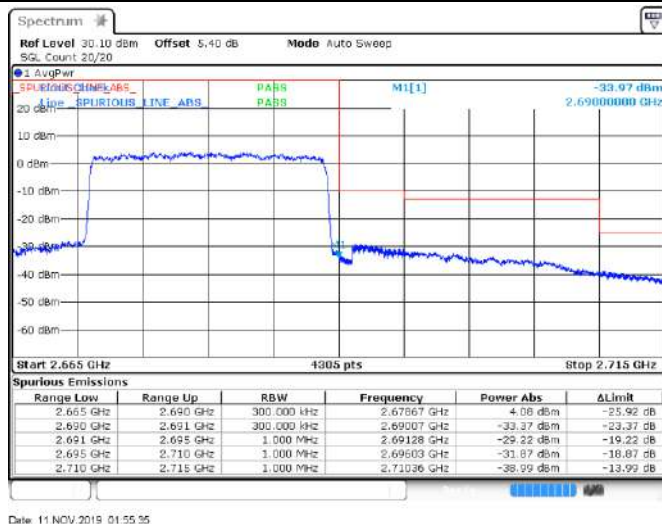


Band41_20MHz_16QAM_41490_1RB#99





Band41_20MHz_16QAM_41490_100RB#0



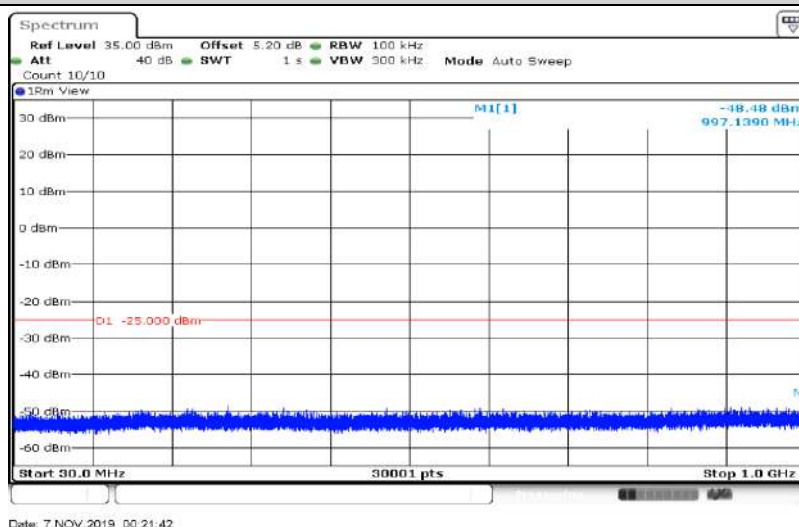
6. Spurious Emission at Antenna Terminal

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.

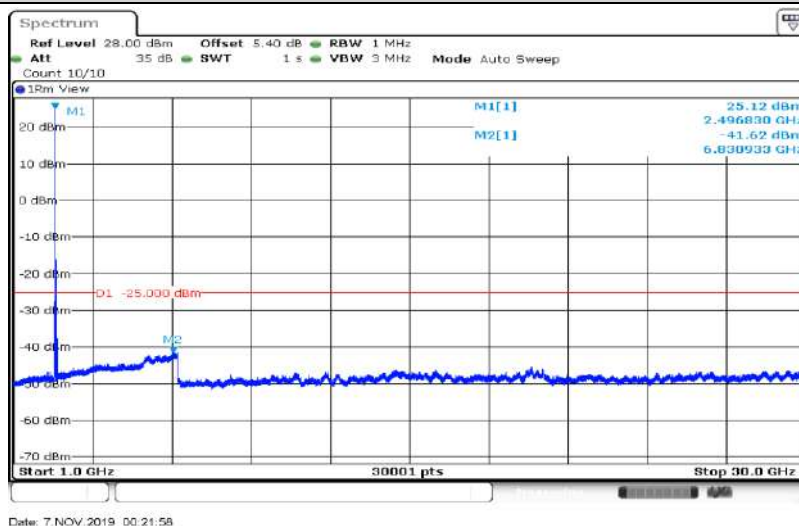
Remark2: only the worst case data displayed in this report.

6.1. Test Plots

Band41-20MHz-QPSK-39750-1RB#0-Range1:30~1000MHz



Band41-20MHz-QPSK-39750-1RB#0-Range2:1000~30000MHz



Band41-20MHz-QPSK-40620-1RB#0-Range1:30~1000MHz



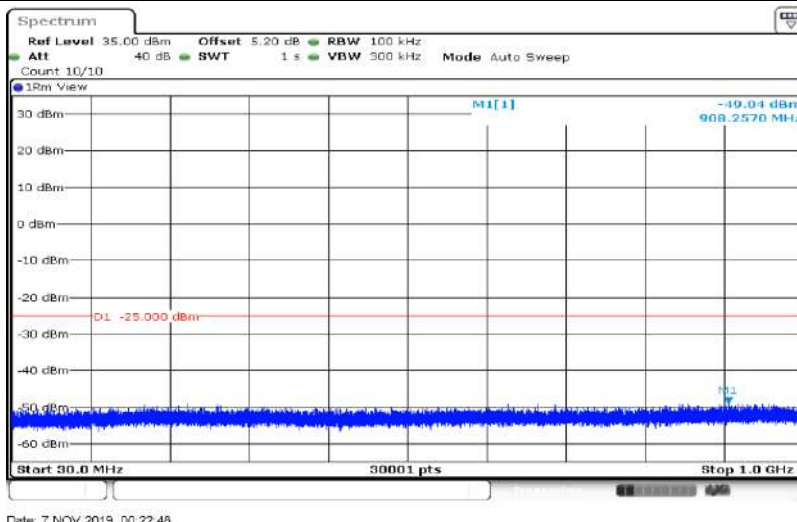
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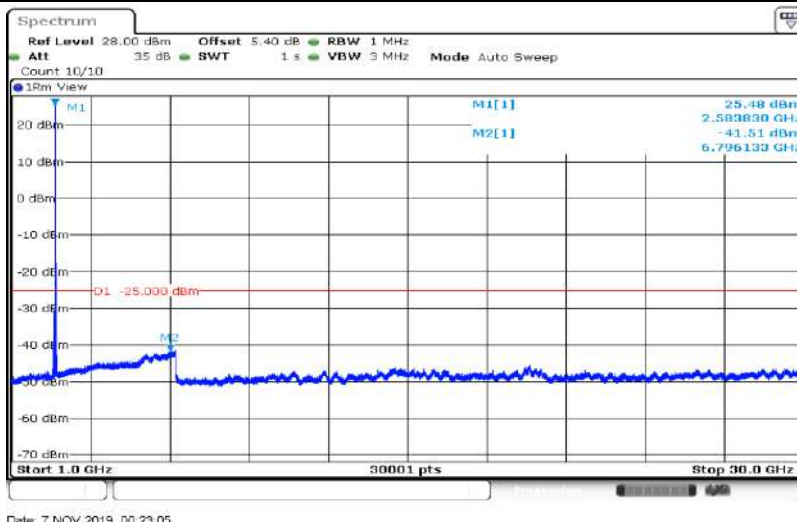
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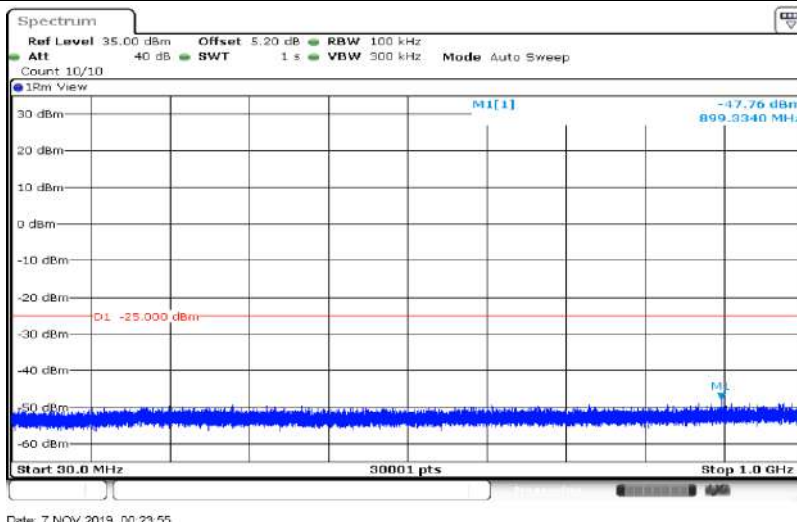
Band41-20MHz-QPSK-40620-1RB#0-Range2:1000~30000MHz



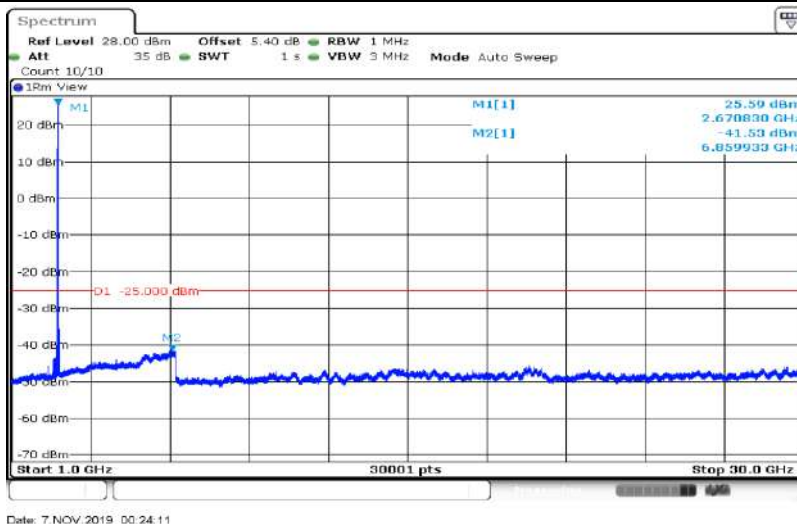
Band41-20MHz-QPSK-41490-1RB#0-Range1:30~1000MHz



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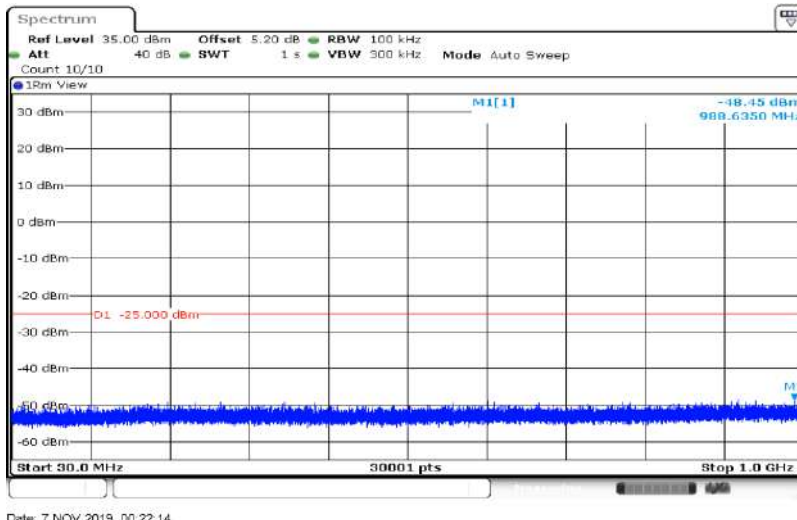
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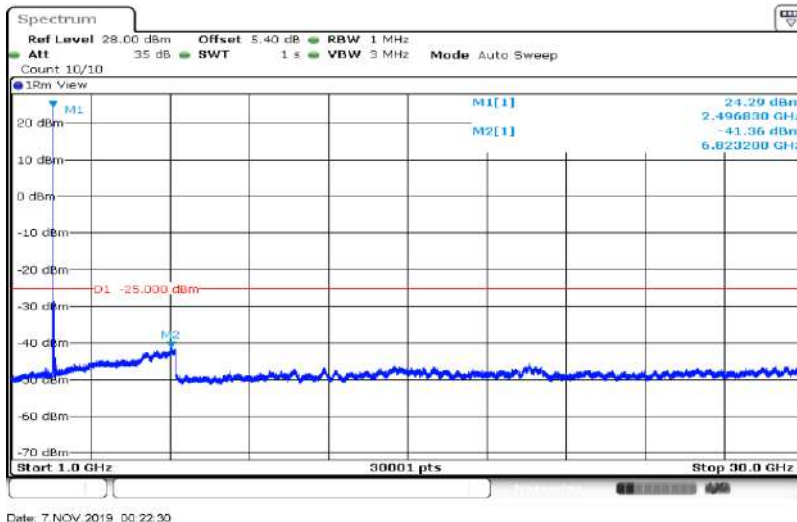
Band41-20MHz-16QAM-39750-1RB#0-Range1:30~1000MHz



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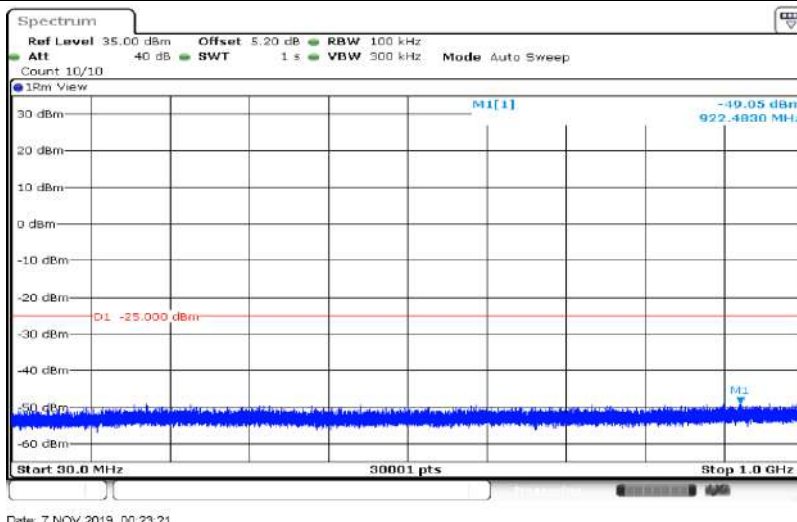


Band41-20MHz-16QAM-39750-1RB#0-Range2:1000~30000MHz

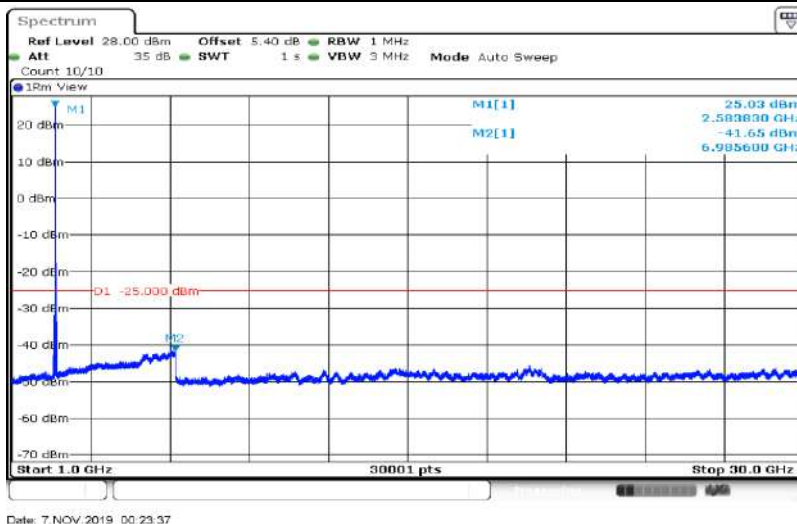


Band41-20MHz-16QAM-40620-1RB#0-Range1:30~1000MHz





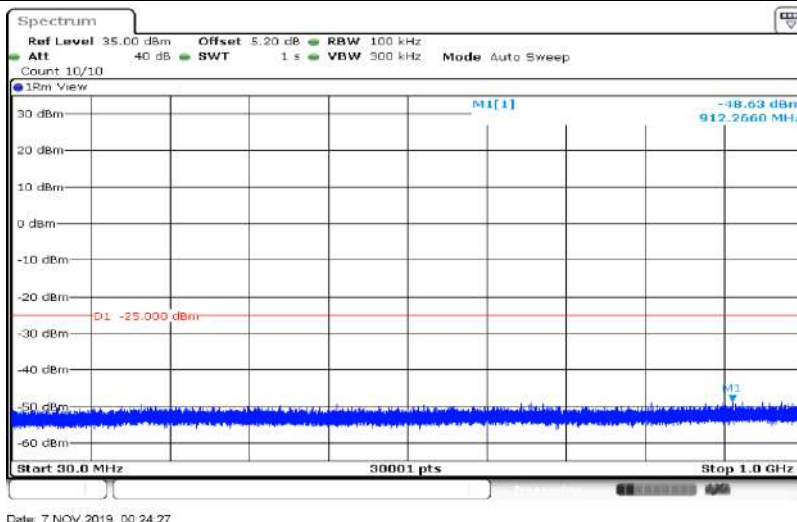
Band41-20MHz-16QAM-40620-1RB#0-Range2:1000~30000MHz



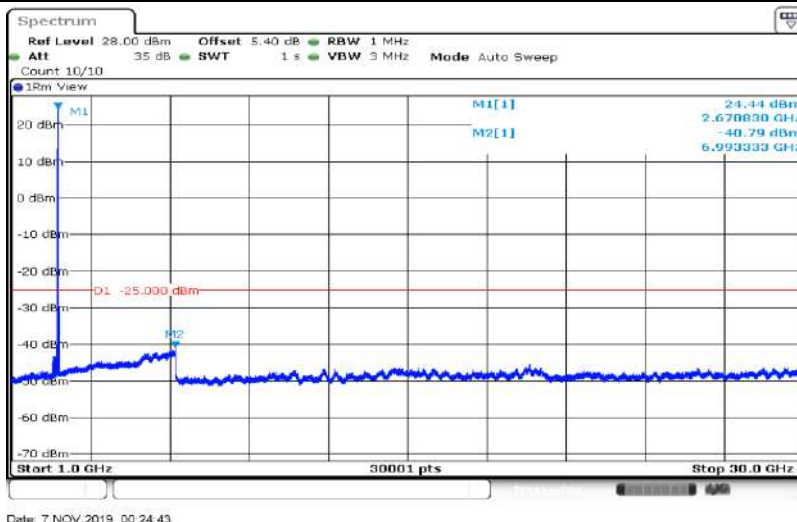
Band41-20MHz-16QAM-41490-1RB#0-Range1:30~1000MHz



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Band41-20MHz-16QAM-41490-1RB#0-Range2:1000~30000MHz



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7. Field Strength of Spurious Radiation

7.1. Test Mode =LTE/TM1

7.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height (cm)	Angle (°)	Polarization
75.3013	-67.06	-25.00	42.06	221	146	Vertical
112.2601	-64.75	-25.00	39.75	289	178	Vertical
907.3604	-57.60	-25.00	32.60	236	351	Vertical
4994.0665	-32.22	-25.00	7.22	217	252	Vertical
10675.7559	-45.22	-25.00	20.22	189	252	Vertical
17986.9996	-32.66	-25.00	7.66	196	284	Vertical
44.8902	-63.68	-25.00	38.68	296	90	Horizontal
236.0383	-68.36	-25.00	43.36	243	360	Horizontal
907.0694	-56.63	-25.00	31.63	218	269	Horizontal
4994.0665	-36.67	-25.00	11.67	182	269	Horizontal
10645.2548	-46.79	-25.00	21.79	133	123	Horizontal
16404.9468	-37.06	-25.00	12.06	173	360	Horizontal

7.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height (cm)	Angle (°)	Polarization
76.8533	-66.78	-25.00	41.78	287	77	Vertical
111.7266	-65.15	-25.00	40.15	245	318	Vertical
899.0665	-53.32	-25.00	28.32	152	111	Vertical
5168.0723	-34.97	-25.00	9.97	193	249	Vertical
10336.2445	-43.30	-25.00	18.30	172	318	Vertical
17999.0000	-32.72	-25.00	7.72	141	77	Vertical
42.2711	-64.41	-25.00	39.41	163	332	Horizontal
228.6659	-68.88	-25.00	43.88	272	191	Horizontal
907.7484	-55.73	-25.00	30.73	122	8	Horizontal
5168.0723	-40.65	-25.00	15.65	178	111	Horizontal
10035.7345	-47.93	-25.00	22.93	216	262	Horizontal
16401.4467	-36.84	-25.00	11.84	228	225	Horizontal





7.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height (cm)	Angle (°)	Polarization
75.8348	-66.84	-25.00	41.84	233	119	Vertical
116.9163	-64.32	-25.00	39.32	177	119	Vertical
906.5843	-55.60	-25.00	30.60	196	301	Vertical
5342.0781	-40.57	-25.00	15.57	172	266	Vertical
10684.7562	-44.25	-25.00	19.25	285	347	Vertical
17963.4988	-33.04	-25.00	8.04	189	119	Vertical
44.1142	-64.65	-25.00	39.65	166	110	Horizontal
233.7102	-68.49	-25.00	43.49	172	257	Horizontal
898.5329	-60.96	-25.00	35.96	171	359	Horizontal
5342.0781	-46.24	-25.00	21.24	198	110	Horizontal
10421.2474	-46.74	-25.00	21.74	186	36	Horizontal
16385.9462	-37.02	-25.00	12.02	183	134	Horizontal

Remark:

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



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8. Frequency Stability

8.1. Frequency Vs Voltage

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band41	20MHz	QPSK	39750	100RB#0	VL	NT	0.60	0.000239	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	VN	NT	3.20	0.001277	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	VH	NT	6.50	0.002594	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	VL	NT	1.60	0.000617	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	VN	NT	0.20	0.000077	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	VH	NT	1.00	0.000386	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	VL	NT	5.70	0.002127	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	VN	NT	6.80	0.002537	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	VH	NT	7.00	0.002612	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	VL	NT	1.30	0.000519	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	VN	NT	5.30	0.002115	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	VH	NT	4.20	0.001676	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	VL	NT	4.90	0.001890	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	VN	NT	2.90	0.001118	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	VH	NT	1.60	0.000617	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	VL	NT	9.50	0.003545	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	VN	NT	4.60	0.001716	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	VH	NT	5.90	0.002201	±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	1.00	0.000399	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	-20	6.60	0.002634	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	0	2.70	0.001077	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	10	4.80	0.001915	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	20	1.20	0.000479	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	30	5.20	0.002075	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	40	3.90	0.001556	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	50	5.80	0.002314	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-30	1.50	0.000578	±2.5	PASS



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Band41	20MHz	QPSK	40620	100RB#0	NV	-20	-0.40	-0.000154	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	0	3.40	0.001311	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	10	2.70	0.001041	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	20	5.70	0.002198	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	30	6.10	0.002352	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	40	1.20	0.000463	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	50	1.00	0.000386	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	-30	4.00	0.001493	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	-20	8.10	0.003022	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	0	9.80	0.003657	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	10	8.70	0.003246	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	20	9.80	0.003657	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	30	8.50	0.003172	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	40	4.90	0.001828	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	50	6.50	0.002425	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	-30	-0.30	-0.000120	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	-20	0.30	0.000120	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	0	5.30	0.002115	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	10	6.60	0.002634	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	20	2.10	0.000838	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	30	4.30	0.001716	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	40	-0.70	-0.000279	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	50	1.10	0.000439	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	-30	0.00	0.000000	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	-20	5.20	0.002005	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	0	7.00	0.002700	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	10	5.50	0.002121	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	20	6.60	0.002545	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	30	10.20	0.003934	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	40	2.30	0.000887	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	50	1.50	0.000578	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	-30	4.30	0.001604	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	-20	9.80	0.003657	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	0	9.30	0.003470	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	10	3.60	0.001343	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	20	5.00	0.001866	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	30	4.80	0.001791	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	40	4.80	0.001791	±2.5	PASS



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Band41	20MHz	16QAM	41490	100RB#0	NV	50	9.00	0.003358	±2.5	PASS
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