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	40265	1RB#0	22.96	17.66	33.00	PASS
Band41	5MHz	QPSK	40265	1RB#12	23.07	17.77	33.00	PASS
Band41	5MHz	QPSK	40265	1RB#24	22.97	17.67	33.00	PASS
Band41	5MHz	QPSK	40265	12RB#6	22.38	17.08	33.00	PASS
Band41	5MHz	QPSK	40265	12RB#0	22.36	17.06	33.00	PASS
Band41	5MHz	QPSK	40265	12RB#13	22.26	16.96	33.00	PASS
Band41	5MHz	QPSK	40265	25RB#0	22.36	17.06	33.00	PASS
Band41	5MHz	QPSK	40840	1RB#24	23.07	17.77	33.00	PASS
Band41	5MHz	QPSK	40840	1RB#0	23.08	17.78	33.00	PASS
Band41	5MHz	QPSK	40840	1RB#12	23.06	17.76	33.00	PASS
Band41	5MHz	QPSK	40840	12RB#0	22.35	17.05	33.00	PASS
Band41	5MHz	QPSK	40840	12RB#6	22.40	17.1	33.00	PASS
Band41	5MHz	QPSK	40840	12RB#13	22.30	17	33.00	PASS
Band41	5MHz	QPSK	40840	25RB#0	22.31	17.01	33.00	PASS
Band41	5MHz	QPSK	41415	1RB#12	22.93	17.63	33.00	PASS
Band41	5MHz	QPSK	41415	1RB#0	23.02	17.72	33.00	PASS
Band41	5MHz	QPSK	41415	1RB#24	23.04	17.74	33.00	PASS
Band41	5MHz	QPSK	41415	12RB#13	22.29	16.99	33.00	PASS
Band41	5MHz	QPSK	41415	12RB#6	22.38	17.08	33.00	PASS
Band41	5MHz	QPSK	41415	12RB#0	22.31	17.01	33.00	PASS
Band41	5MHz	QPSK	41415	25RB#0	22.37	17.07	33.00	PASS
Band41	5MHz	16QAM	40265	1RB#0	22.33	17.03	33.00	PASS
Band41	5MHz	16QAM	40265	1RB#24	22.18	16.88	33.00	PASS
Band41	5MHz	16QAM	40265	1RB#12	22.12	16.82	33.00	PASS
Band41	5MHz	16QAM	40265	12RB#13	21.21	15.91	33.00	PASS
Band41	5MHz	16QAM	40265	12RB#6	21.21	15.91	33.00	PASS

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Band41	5MHz	16QAM	40265	12RB#0	21.20	15.9	33.00	PASS
Band41	5MHz	16QAM	40265	25RB#0	21.34	16.04	33.00	PASS
Band41	5MHz	16QAM	40840	1RB#12	22.22	16.92	33.00	PASS
Band41	5MHz	16QAM	40840	1RB#24	22.27	16.97	33.00	PASS
Band41	5MHz	16QAM	40840	1RB#0	22.19	16.89	33.00	PASS
Band41	5MHz	16QAM	40840	12RB#0	21.26	15.96	33.00	PASS
Band41	5MHz	16QAM	40840	12RB#6	21.42	16.12	33.00	PASS
Band41	5MHz	16QAM	40840	12RB#13	21.32	16.02	33.00	PASS
Band41	5MHz	16QAM	40840	25RB#0	21.38	16.08	33.00	PASS
Band41	5MHz	16QAM	41415	1RB#24	22.01	16.71	33.00	PASS
Band41	5MHz	16QAM	41415	1RB#12	22.29	16.99	33.00	PASS
Band41	5MHz	16QAM	41415	1RB#0	21.92	16.62	33.00	PASS
Band41	5MHz	16QAM	41415	12RB#13	21.21	15.91	33.00	PASS
Band41	5MHz	16QAM	41415	12RB#6	21.42	16.12	33.00	PASS
Band41	5MHz	16QAM	41415	12RB#0	21.33	16.03	33.00	PASS
Band41	5MHz	16QAM	41415	25RB#0	21.56	16.26	33.00	PASS
Band41	10MHz	QPSK	40290	1RB#49	22.84	17.54	33.00	PASS
Band41	10MHz	QPSK	40290	1RB#24	23.10	17.8	33.00	PASS
Band41	10MHz	QPSK	40290	1RB#0	22.79	17.49	33.00	PASS
Band41	10MHz	QPSK	40290	25RB#12	22.32	17.02	33.00	PASS
Band41	10MHz	QPSK	40290	25RB#0	22.24	16.94	33.00	PASS
Band41	10MHz	QPSK	40290	25RB#25	22.08	16.78	33.00	PASS
Band41	10MHz	QPSK	40290	50RB#0	22.19	16.89	33.00	PASS
Band41	10MHz	QPSK	40840	1RB#24	22.91	17.61	33.00	PASS
Band41	10MHz	QPSK	40840	1RB#49	23.12	17.82	33.00	PASS
Band41	10MHz	QPSK	40840	1RB#0	23.12	17.82	33.00	PASS
Band41	10MHz	QPSK	40840	25RB#25	22.31	17.01	33.00	PASS
Band41	10MHz	QPSK	40840	25RB#0	22.35	17.05	33.00	PASS
Band41	10MHz	QPSK	40840	25RB#12	22.27	16.97	33.00	PASS
Band41	10MHz	QPSK	40840	50RB#0	22.28	16.98	33.00	PASS
Band41	10MHz	QPSK	41390	1RB#49	22.81	17.51	33.00	PASS
Band41	10MHz	QPSK	41390	1RB#24	23.10	17.8	33.00	PASS
Band41	10MHz	QPSK	41390	1RB#0	23.01	17.71	33.00	PASS

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Band41	10MHz	QPSK	41390	25RB#25	22.06	16.76	33.00	PASS
Band41	10MHz	QPSK	41390	25RB#0	22.12	16.82	33.00	PASS
Band41	10MHz	QPSK	41390	25RB#12	22.20	16.9	33.00	PASS
Band41	10MHz	QPSK	41390	50RB#0	22.18	16.88	33.00	PASS
Band41	10MHz	16QAM	40290	1RB#0	21.74	16.44	33.00	PASS
Band41	10MHz	16QAM	40290	1RB#24	22.05	16.75	33.00	PASS
Band41	10MHz	16QAM	40290	1RB#49	21.66	16.36	33.00	PASS
Band41	10MHz	16QAM	40290	25RB#12	21.27	15.97	33.00	PASS
Band41	10MHz	16QAM	40290	25RB#0	21.08	15.78	33.00	PASS
Band41	10MHz	16QAM	40290	25RB#25	21.15	15.85	33.00	PASS
Band41	10MHz	16QAM	40290	50RB#0	21.19	15.89	33.00	PASS
Band41	10MHz	16QAM	40840	1RB#0	21.76	16.46	33.00	PASS
Band41	10MHz	16QAM	40840	1RB#49	22.01	16.71	33.00	PASS
Band41	10MHz	16QAM	40840	1RB#24	21.79	16.49	33.00	PASS
Band41	10MHz	16QAM	40840	25RB#0	21.46	16.16	33.00	PASS
Band41	10MHz	16QAM	40840	25RB#25	21.53	16.23	33.00	PASS
Band41	10MHz	16QAM	40840	25RB#12	21.52	16.22	33.00	PASS
Band41	10MHz	16QAM	40840	50RB#0	21.53	16.23	33.00	PASS
Band41	10MHz	16QAM	41390	1RB#0	21.54	16.24	33.00	PASS
Band41	10MHz	16QAM	41390	1RB#49	22.05	16.75	33.00	PASS
Band41	10MHz	16QAM	41390	1RB#24	21.78	16.48	33.00	PASS
Band41	10MHz	16QAM	41390	25RB#0	21.41	16.11	33.00	PASS
Band41	10MHz	16QAM	41390	25RB#12	21.46	16.16	33.00	PASS
Band41	10MHz	16QAM	41390	25RB#25	21.54	16.24	33.00	PASS
Band41	10MHz	16QAM	41390	50RB#0	21.57	16.27	33.00	PASS
Band41	15MHz	QPSK	40315	1RB#74	22.87	17.57	33.00	PASS
Band41	15MHz	QPSK	40315	1RB#38	22.83	17.53	33.00	PASS
Band41	15MHz	QPSK	40315	1RB#0	22.82	17.52	33.00	PASS
Band41	15MHz	QPSK	40315	36RB#39	22.03	16.73	33.00	PASS
Band41	15MHz	QPSK	40315	36RB#18	22.01	16.71	33.00	PASS
Band41	15MHz	QPSK	40315	36RB#0	21.95	16.65	33.00	PASS
Band41	15MHz	QPSK	40315	75RB#0	21.83	16.53	33.00	PASS
Band41	15MHz	QPSK	40840	1RB#0	22.85	17.55	33.00	PASS

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Band41	15MHz	QPSK	40840	1RB#38	22.89	17.59	33.00	PASS
Band41	15MHz	QPSK	40840	1RB#74	22.80	17.5	33.00	PASS
Band41	15MHz	QPSK	40840	36RB#0	22.12	16.82	33.00	PASS
Band41	15MHz	QPSK	40840	36RB#18	22.07	16.77	33.00	PASS
Band41	15MHz	QPSK	40840	36RB#39	22.04	16.74	33.00	PASS
Band41	15MHz	QPSK	40840	75RB#0	21.98	16.68	33.00	PASS
Band41	15MHz	QPSK	41365	1RB#0	22.68	17.38	33.00	PASS
Band41	15MHz	QPSK	41365	1RB#38	22.84	17.54	33.00	PASS
Band41	15MHz	QPSK	41365	1RB#74	22.75	17.45	33.00	PASS
Band41	15MHz	QPSK	41365	36RB#0	21.94	16.64	33.00	PASS
Band41	15MHz	QPSK	41365	36RB#18	22.01	16.71	33.00	PASS
Band41	15MHz	QPSK	41365	36RB#39	21.91	16.61	33.00	PASS
Band41	15MHz	QPSK	41365	75RB#0	21.81	16.51	33.00	PASS
Band41	15MHz	16QAM	40315	1RB#38	21.75	16.45	33.00	PASS
Band41	15MHz	16QAM	40315	1RB#0	21.56	16.26	33.00	PASS
Band41	15MHz	16QAM	40315	1RB#74	21.55	16.25	33.00	PASS
Band41	15MHz	16QAM	40315	36RB#0	21.28	15.98	33.00	PASS
Band41	15MHz	16QAM	40315	36RB#39	21.10	15.8	33.00	PASS
Band41	15MHz	16QAM	40315	36RB#18	21.19	15.89	33.00	PASS
Band41	15MHz	16QAM	40315	75RB#0	21.15	15.85	33.00	PASS
Band41	15MHz	16QAM	40840	1RB#38	21.49	16.19	33.00	PASS
Band41	15MHz	16QAM	40840	1RB#74	21.85	16.55	33.00	PASS
Band41	15MHz	16QAM	40840	1RB#0	21.57	16.27	33.00	PASS
Band41	15MHz	16QAM	40840	36RB#0	21.49	16.19	33.00	PASS
Band41	15MHz	16QAM	40840	36RB#18	21.57	16.27	33.00	PASS
Band41	15MHz	16QAM	40840	36RB#39	21.53	16.23	33.00	PASS
Band41	15MHz	16QAM	40840	75RB#0	21.50	16.2	33.00	PASS
Band41	15MHz	16QAM	41365	1RB#0	21.70	16.4	33.00	PASS
Band41	15MHz	16QAM	41365	1RB#38	21.67	16.37	33.00	PASS
Band41	15MHz	16QAM	41365	1RB#74	21.80	16.5	33.00	PASS
Band41	15MHz	16QAM	41365	36RB#0	21.45	16.15	33.00	PASS
Band41	15MHz	16QAM	41365	36RB#18	21.50	16.2	33.00	PASS
Band41	15MHz	16QAM	41365	36RB#39	21.56	16.26	33.00	PASS

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Band41	15MHz	16QAM	41365	75RB#0	21.57	16.27	33.00	PASS
Band41	20MHz	QPSK	40340	1RB#0	22.58	17.28	33.00	PASS
Band41	20MHz	QPSK	40340	1RB#49	22.94	17.64	33.00	PASS
Band41	20MHz	QPSK	40340	1RB#99	22.55	17.25	33.00	PASS
Band41	20MHz	QPSK	40340	50RB#25	21.98	16.68	33.00	PASS
Band41	20MHz	QPSK	40340	50RB#0	21.99	16.69	33.00	PASS
Band41	20MHz	QPSK	40340	50RB#50	21.86	16.56	33.00	PASS
Band41	20MHz	QPSK	40340	100RB#0	21.84	16.54	33.00	PASS
Band41	20MHz	QPSK	40840	1RB#99	22.60	17.3	33.00	PASS
Band41	20MHz	QPSK	40840	1RB#0	23.13	17.83	33.00	PASS
Band41	20MHz	QPSK	40840	1RB#49	22.68	17.38	33.00	PASS
Band41	20MHz	QPSK	40840	50RB#0	22.08	16.78	33.00	PASS
Band41	20MHz	QPSK	40840	50RB#25	22.09	16.79	33.00	PASS
Band41	20MHz	QPSK	40840	50RB#50	22.01	16.71	33.00	PASS
Band41	20MHz	QPSK	40840	100RB#0	21.98	16.68	33.00	PASS
Band41	20MHz	QPSK	41340	1RB#49	22.48	17.18	33.00	PASS
Band41	20MHz	QPSK	41340	1RB#0	23.01	17.71	33.00	PASS
Band41	20MHz	QPSK	41340	1RB#99	22.54	17.24	33.00	PASS
Band41	20MHz	QPSK	41340	50RB#25	22.05	16.75	33.00	PASS
Band41	20MHz	QPSK	41340	50RB#0	21.96	16.66	33.00	PASS
Band41	20MHz	QPSK	41340	50RB#50	21.84	16.54	33.00	PASS
Band41	20MHz	QPSK	41340	100RB#0	21.82	16.52	33.00	PASS
Band41	20MHz	16QAM	40340	1RB#0	21.46	16.16	33.00	PASS
Band41	20MHz	16QAM	40340	1RB#49	21.58	16.28	33.00	PASS
Band41	20MHz	16QAM	40340	1RB#99	21.26	15.96	33.00	PASS
Band41	20MHz	16QAM	40340	50RB#0	21.32	16.02	33.00	PASS
Band41	20MHz	16QAM	40340	50RB#25	21.11	15.81	33.00	PASS
Band41	20MHz	16QAM	40340	50RB#50	21.21	15.91	33.00	PASS
Band41	20MHz	16QAM	40340	100RB#0	21.20	15.9	33.00	PASS
Band41	20MHz	16QAM	40840	1RB#0	21.43	16.13	33.00	PASS
Band41	20MHz	16QAM	40840	1RB#99	21.87	16.57	33.00	PASS
Band41	20MHz	16QAM	40840	1RB#49	21.45	16.15	33.00	PASS
Band41	20MHz	16QAM	40840	50RB#0	21.54	16.24	33.00	PASS

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Band41	20MHz	16QAM	40840	50RB#25	21.59	16.29	33.00	PASS
Band41	20MHz	16QAM	40840	50RB#50	21.56	16.26	33.00	PASS
Band41	20MHz	16QAM	40840	100RB#0	21.54	16.24	33.00	PASS
Band41	20MHz	16QAM	41340	1RB#0	21.32	16.02	33.00	PASS
Band41	20MHz	16QAM	41340	1RB#99	21.77	16.47	33.00	PASS
Band41	20MHz	16QAM	41340	1RB#49	21.67	16.37	33.00	PASS
Band41	20MHz	16QAM	41340	50RB#50	21.49	16.19	33.00	PASS
Band41	20MHz	16QAM	41340	50RB#25	21.55	16.25	33.00	PASS
Band41	20MHz	16QAM	41340	50RB#0	21.58	16.28	33.00	PASS
Band41	20MHz	16QAM	41340	100RB#0	21.55	16.25	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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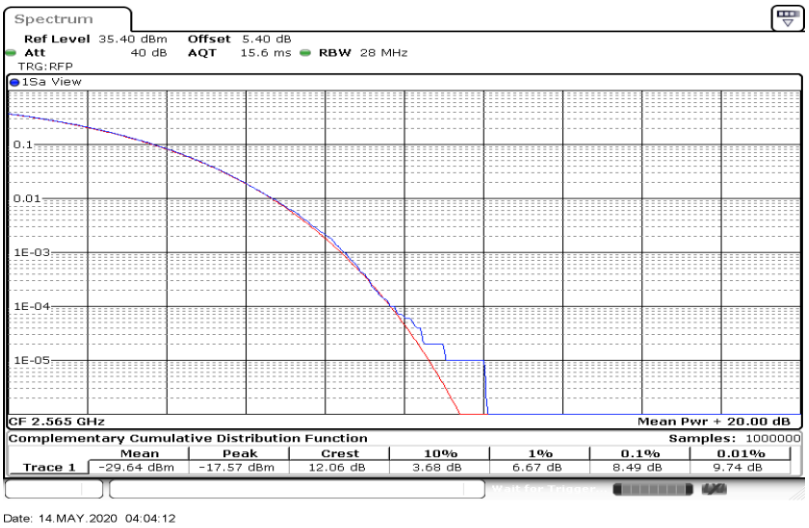
2 Peak-to-Average Ratio (CCDF)

2.1 Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band41	20MHz	QPSK	40340	100RB#0	8.49	13	PASS
Band41	20MHz	QPSK	40840	100RB#0	8.55	13	PASS
Band41	20MHz	QPSK	41340	100RB#0	9.16	13	PASS
Band41	20MHz	16QAM	40340	27RB#0	5.65	13	PASS
Band41	20MHz	16QAM	40840	27RB#0	9.30	13	PASS
Band41	20MHz	16QAM	41340	27RB#0	9.19	13	PASS

2.2 Test Plots

Band41-20MHz-QPSK-40340-100RB#0



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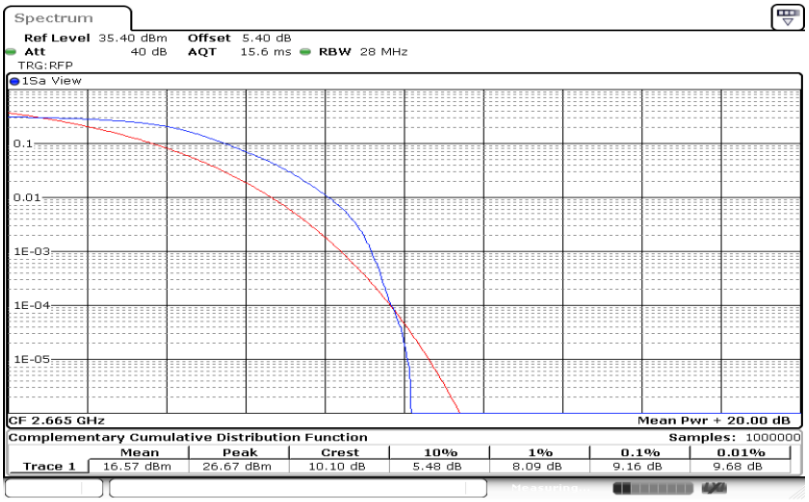
Band41-20MHz-QPSK-40840-100RB#0

Date: 14.MAY.2020 04:04:56

Band41-20MHz-QPSK-41340-100RB#0



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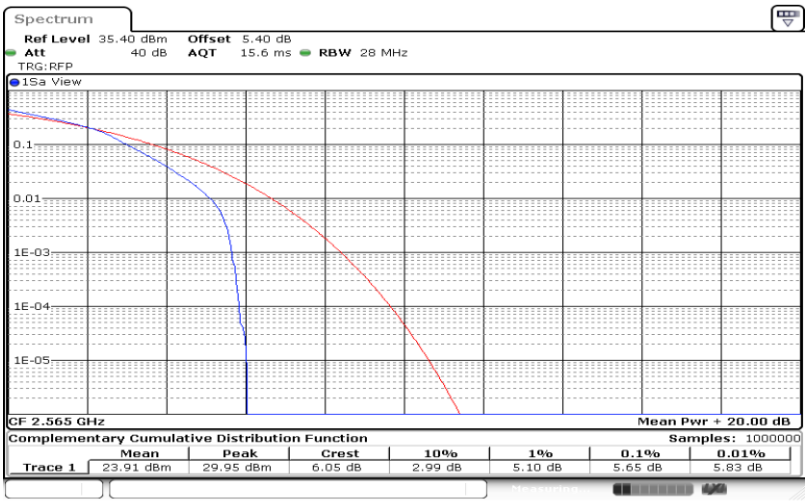
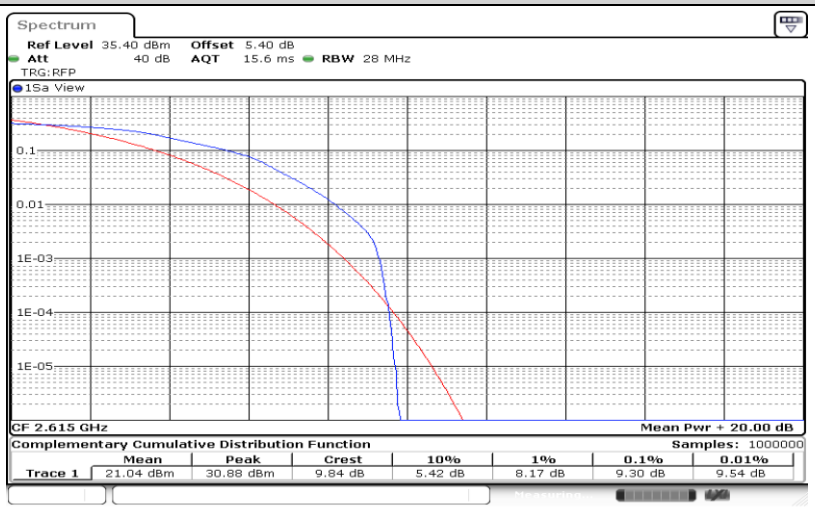
Band41-20MHz-16QAM-40340-27RB#0



Date: 18.MAY.2020 04:36:51

Band41-20MHz-16QAM-40840-27RB#0



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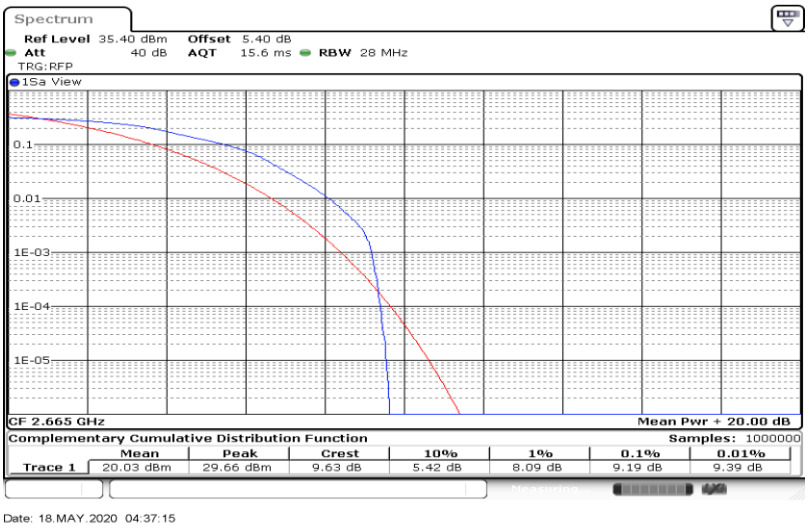
Band41-20MHz-16QAM-41340-27RB#0



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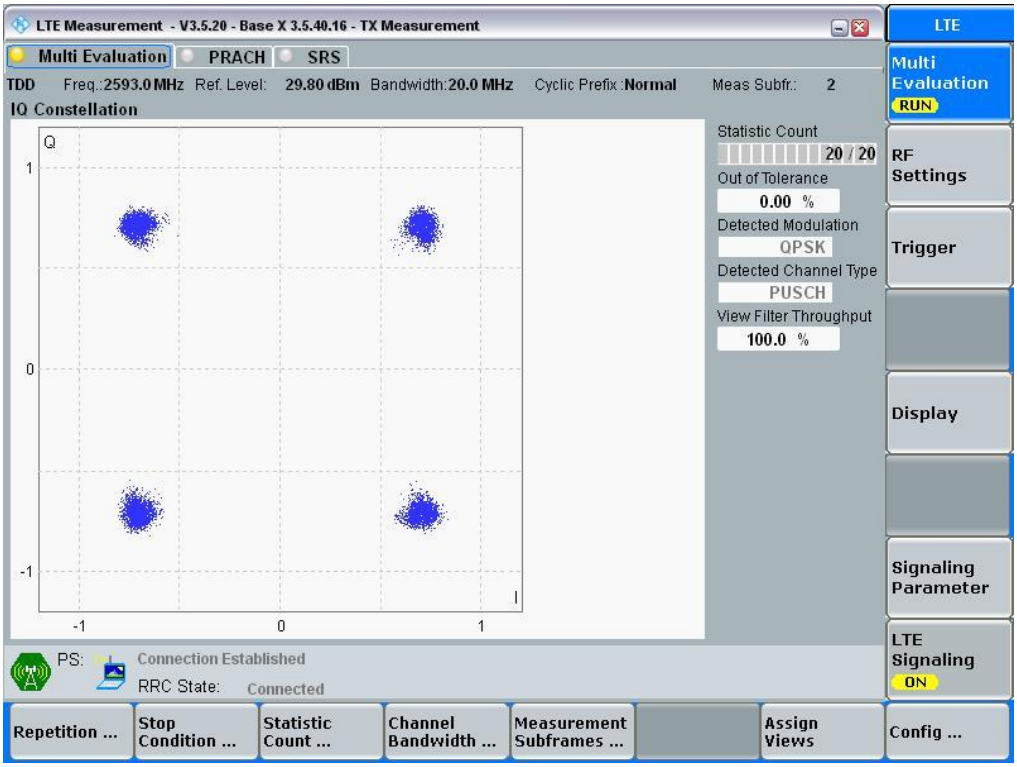
3 Modulation Characteristics

3.1 Test Mode = LTE /TM1 20MHz

1.1.1. Test Channel = MCH



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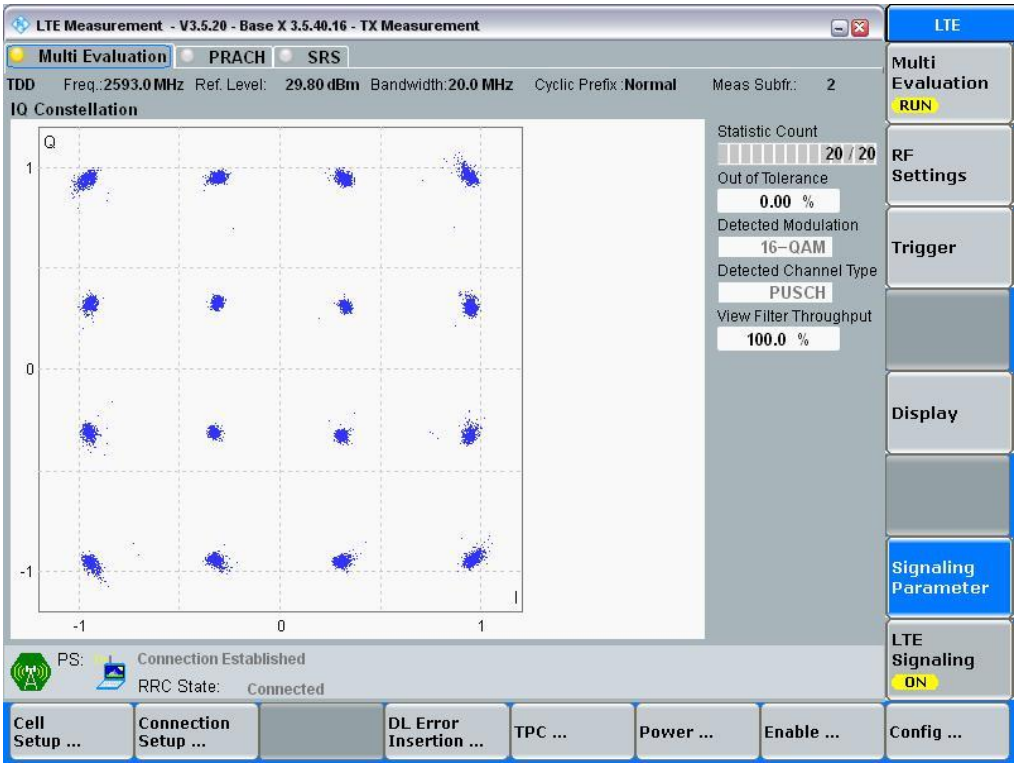
3.2 Test Mode = LTE /TM2 20MHz

1.1.2. 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
Band41	5MHz	QPSK	40265	25RB#0	4.476	5.050	PASS
Band41	5MHz	QPSK	40840	25RB#0	4.476	5.010	PASS
Band41	5MHz	QPSK	41415	25RB#0	4.486	5.090	PASS
Band41	5MHz	16QAM	40265	25RB#0	4.466	5.090	PASS
Band41	5MHz	16QAM	40840	25RB#0	4.466	5.020	PASS
Band41	5MHz	16QAM	41415	25RB#0	4.466	5.020	PASS
Band41	10MHz	QPSK	40290	50RB#0	9.111	12.380	PASS
Band41	10MHz	QPSK	40840	50RB#0	9.071	11.980	PASS
Band41	10MHz	QPSK	41390	50RB#0	9.111	12.340	PASS
Band41	10MHz	16QAM	40290	27RB#0	5.974	11.400	PASS
Band41	10MHz	16QAM	40840	27RB#0	5.954	11.540	PASS
Band41	10MHz	16QAM	41390	27RB#0	5.714	11.320	PASS
Band41	15MHz	QPSK	40315	75RB#0	13.546	16.350	PASS
Band41	15MHz	QPSK	40840	75RB#0	13.487	16.110	PASS
Band41	15MHz	QPSK	41365	75RB#0	13.516	15.990	PASS
Band41	15MHz	16QAM	40315	27RB#0	5.425	7.410	PASS
Band41	15MHz	16QAM	40840	27RB#0	5.305	6.630	PASS
Band41	15MHz	16QAM	41365	27RB#0	5.305	7.110	PASS
Band41	20MHz	QPSK	40340	100RB#0	17.942	22.400	PASS
Band41	20MHz	QPSK	40840	100RB#0	17.942	19.440	PASS
Band41	20MHz	QPSK	41340	100RB#0	16.943	19.240	PASS
Band41	20MHz	16QAM	40340	27RB#0	5.315	6.720	PASS
Band41	20MHz	16QAM	40840	27RB#0	5.275	6.800	PASS
Band41	20MHz	16QAM	41340	27RB#0	5.315	6.600	PASS

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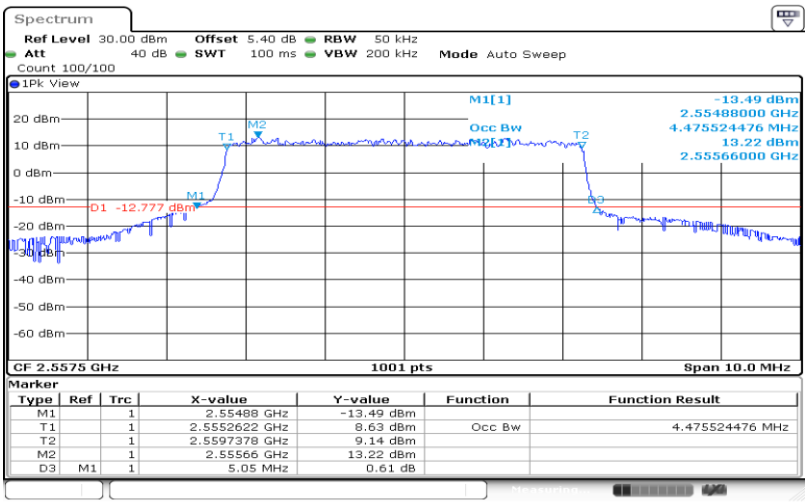
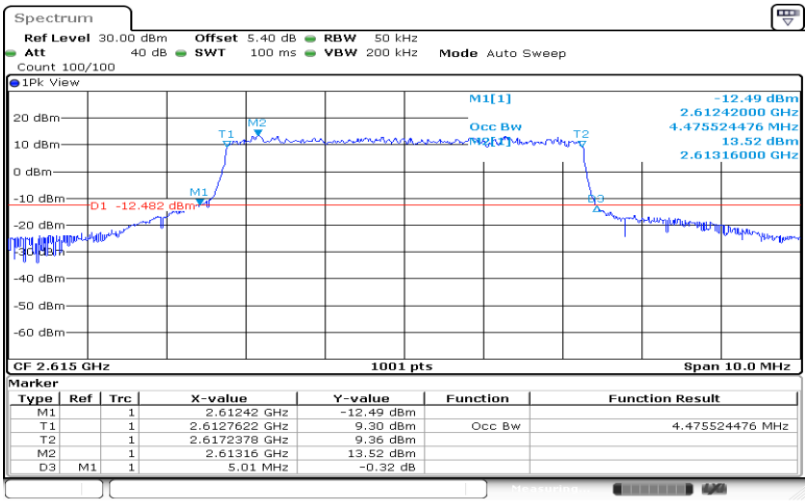
4.2 Test Plots

Band41-5MHz-QPSK-40265-25RB#0-4.476



Band41-5MHz-QPSK-40840-25RB#0-4.476



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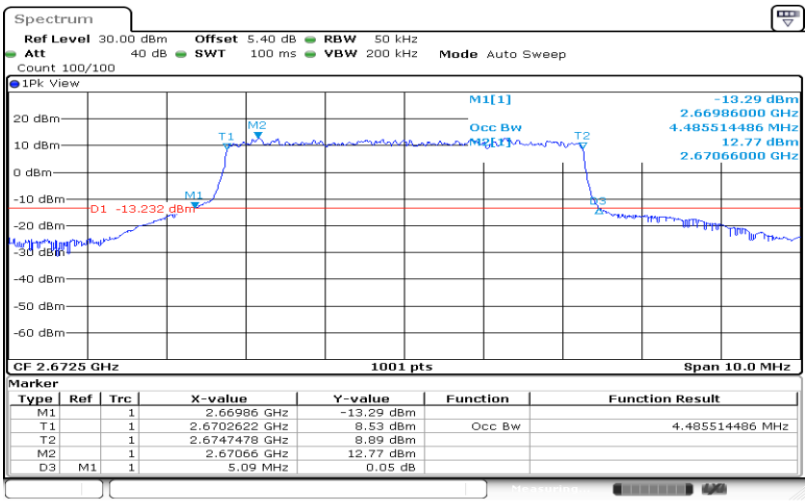
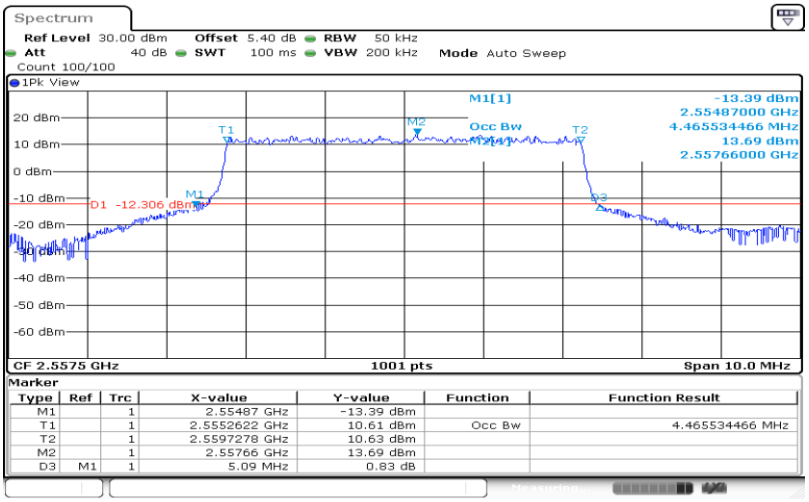
Band41-5MHz-QPSK-41415-25RB#0-4.486



Band41-5MHz-16QAM-40265-25RB#0-4.466



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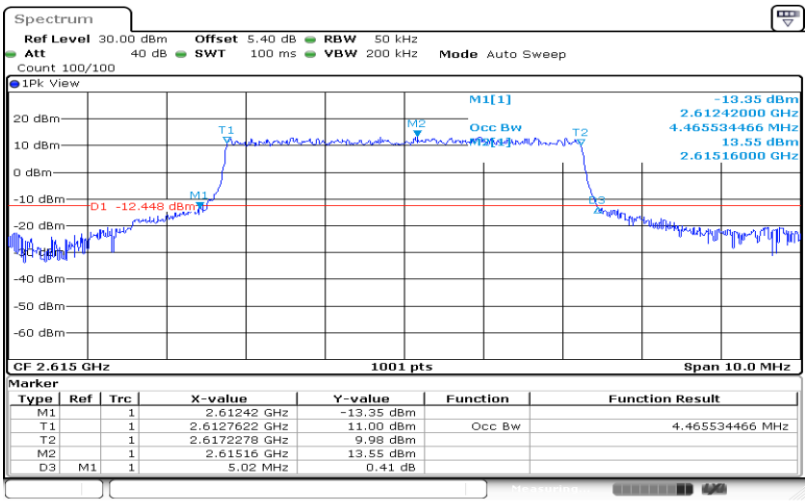
Band41-5MHz-16QAM-40840-25RB#0-4.466



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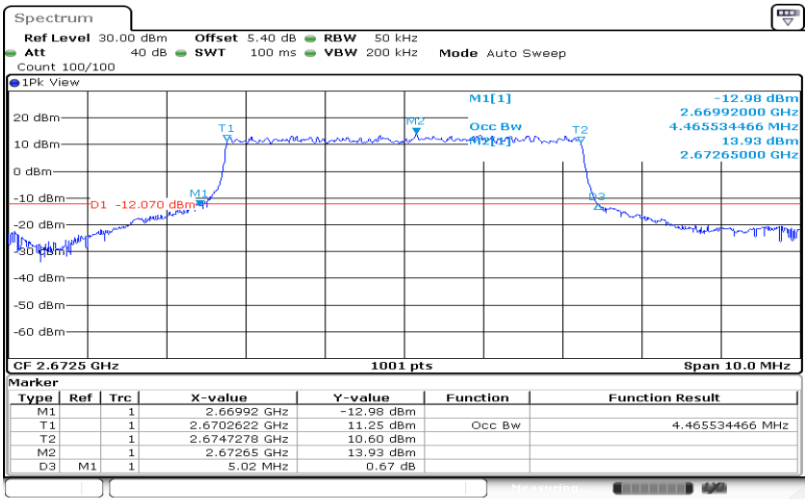

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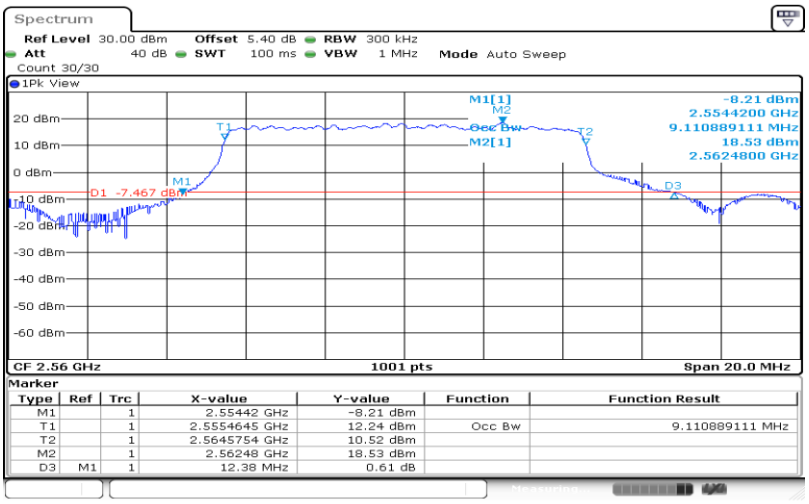
Band41-10MHz-QPSK-40290-50RB#0-9.111



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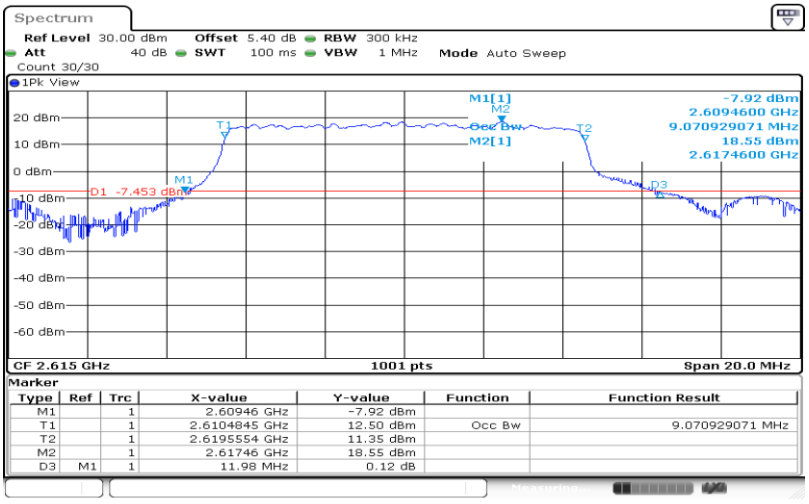
Band41-10MHz-QPSK-40840-50RB#0-9.071



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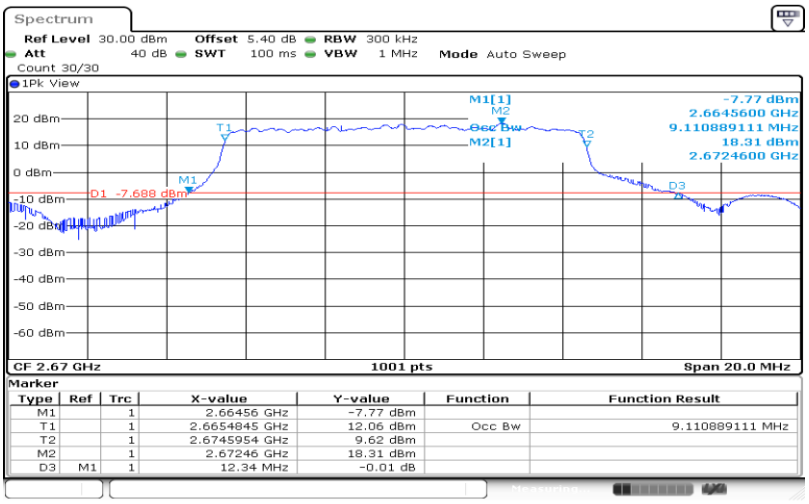
Band41-10MHz-QPSK-41390-50RB#0-9.111



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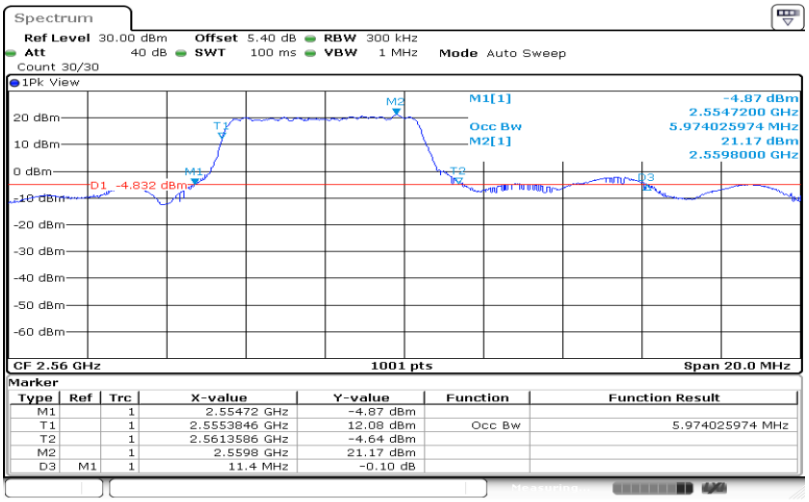
Band41-10MHz-16QAM-40290-27RB#0-5.974



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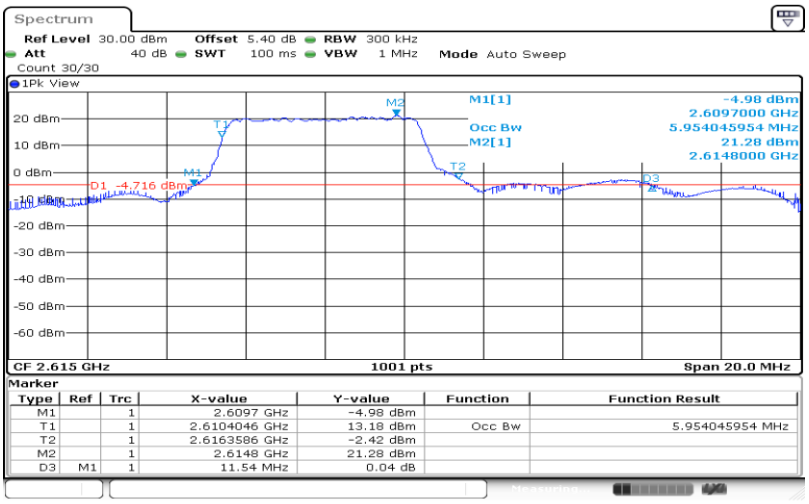
Band41-10MHz-16QAM-40840-27RB#0-5.954



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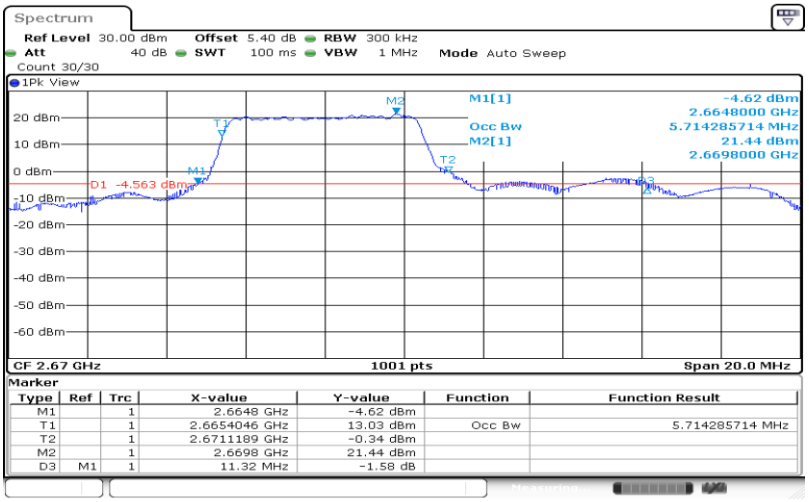

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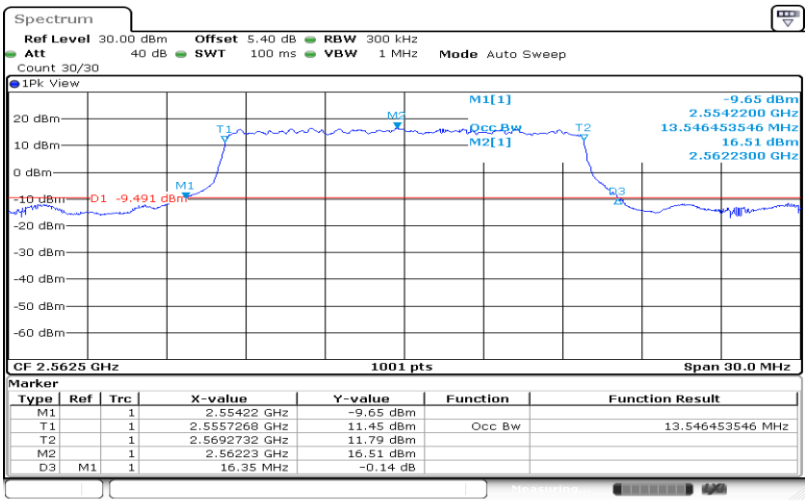
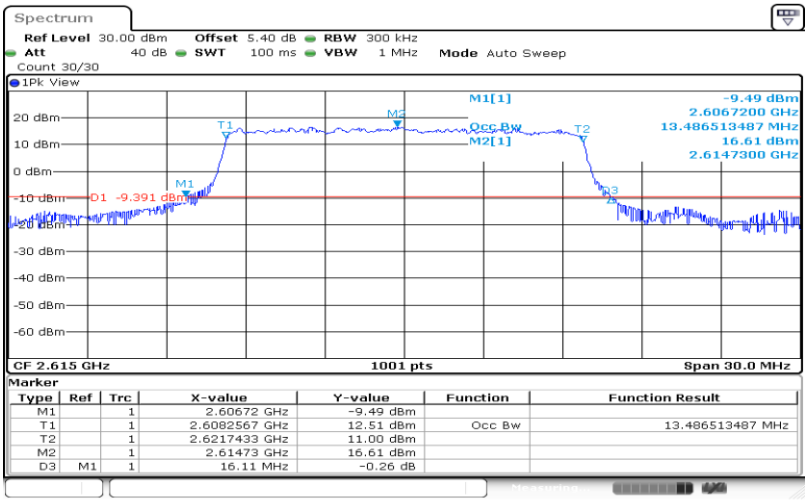
Band41-15MHz-QPSK-40315-75RB#0-13.546



Band41-15MHz-QPSK-40840-75RB#0-13.487



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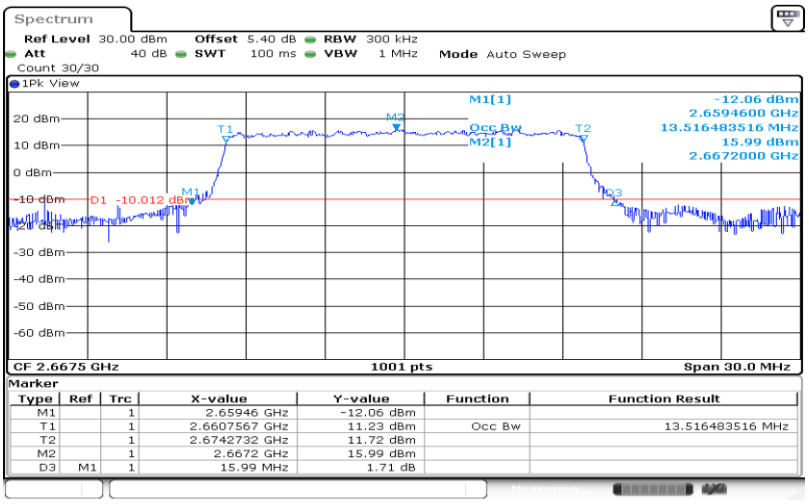
Band41-15MHz-QPSK-41365-75RB#0-13.516



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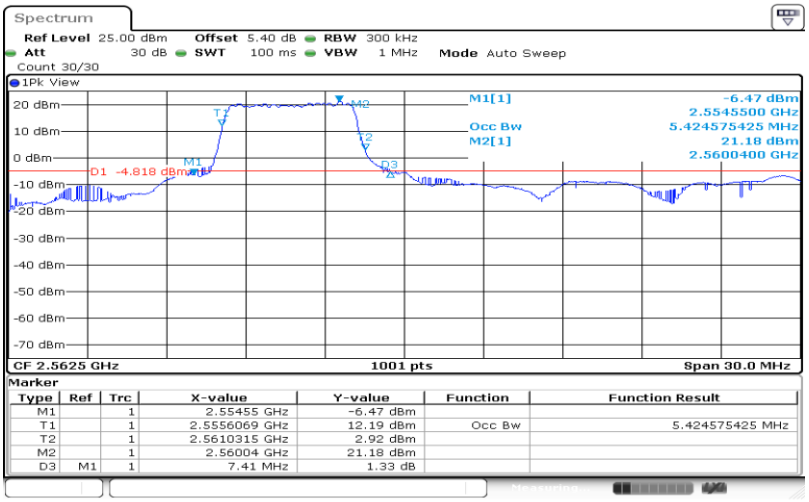

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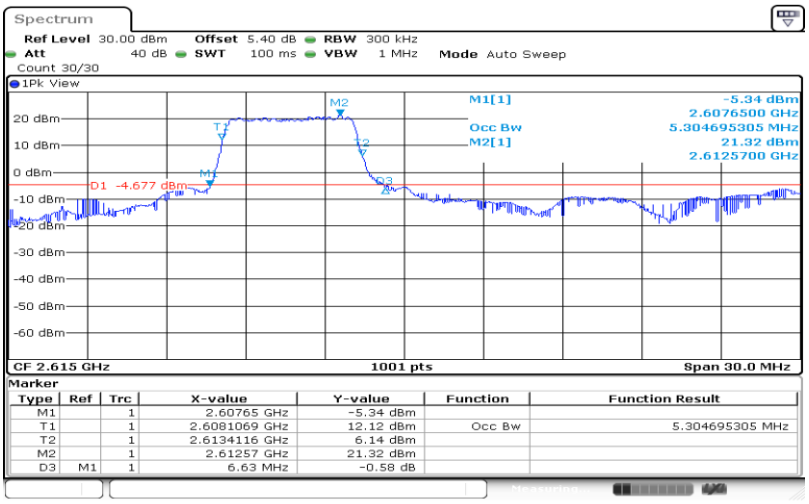
Band41-15MHz-16QAM-40840-27RB#0-5.305



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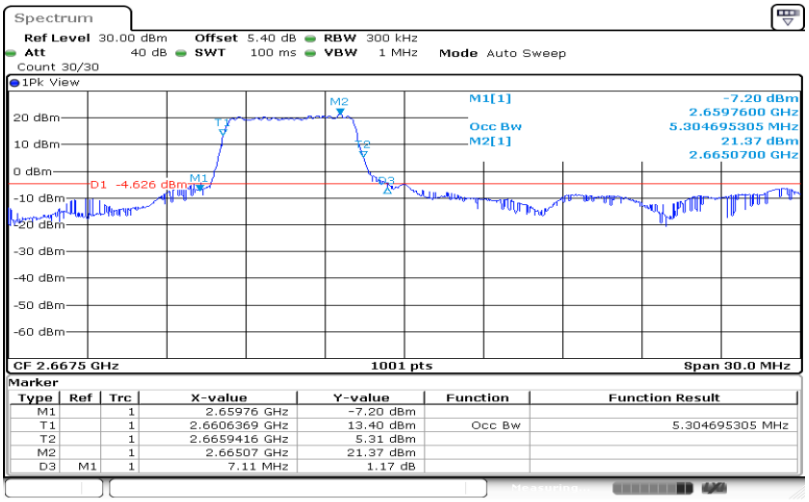

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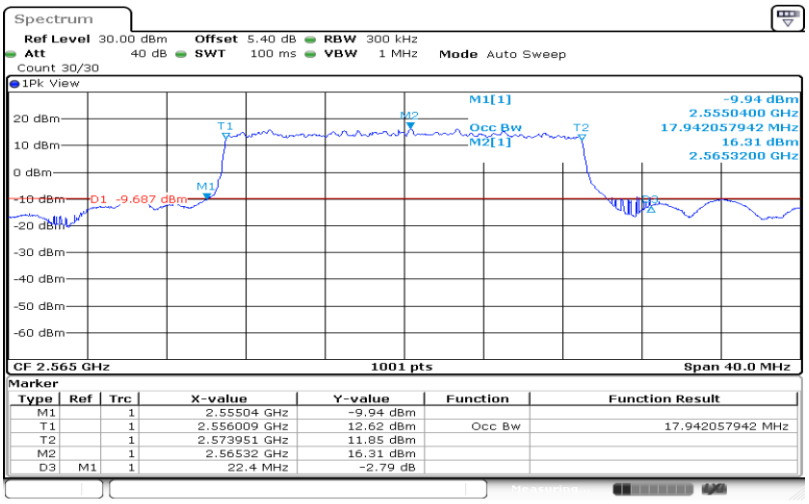
Band41-20MHz-QPSK-40340-100RB#0-17.942



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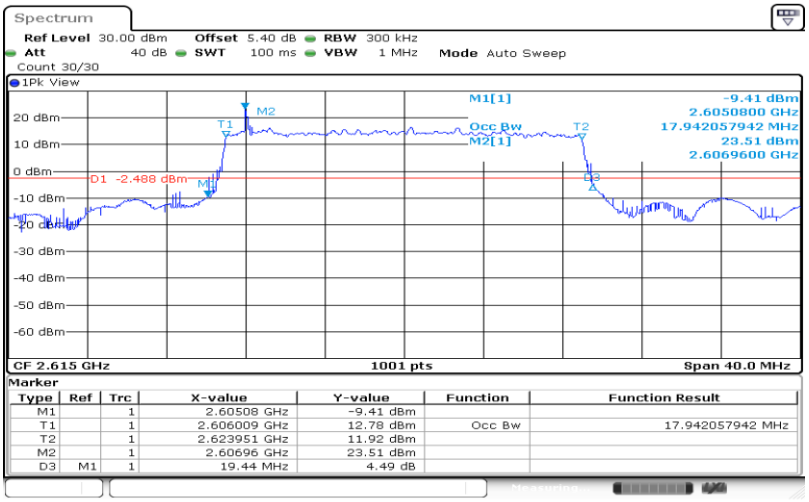
Band41-20MHz-QPSK-40840-100RB#0-17.942



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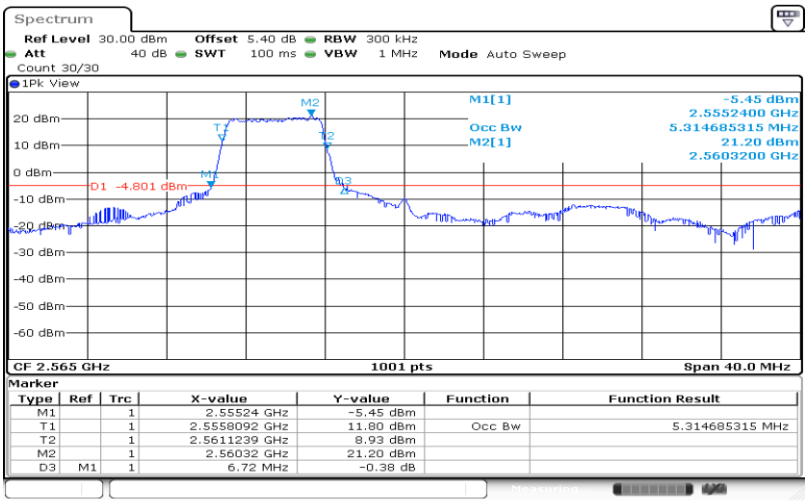
Band41-20MHz-16QAM-40340-27RB#0-5.315



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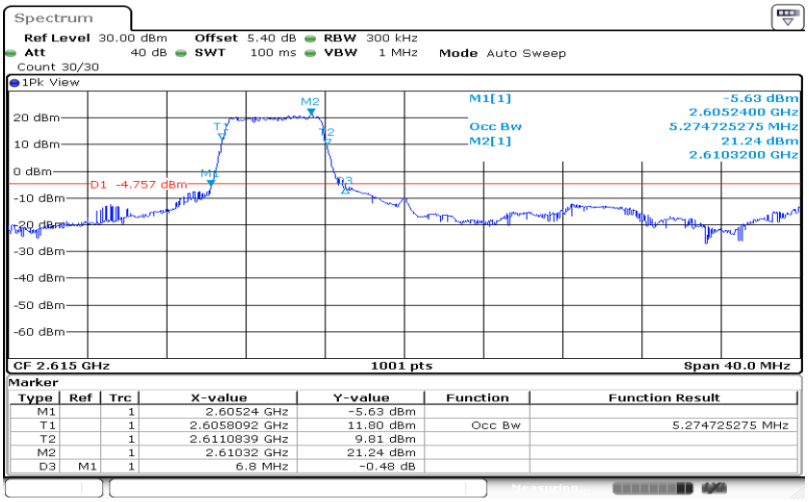

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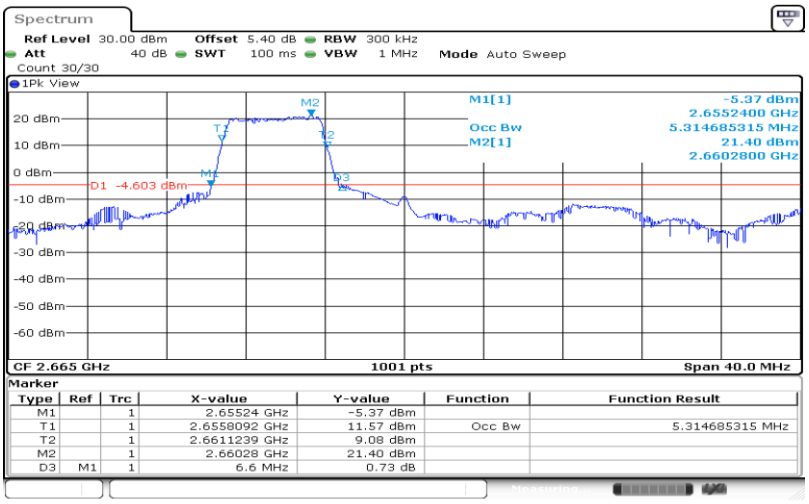
Band41-20MHz-16QAM-41340-27RB#0-5.315



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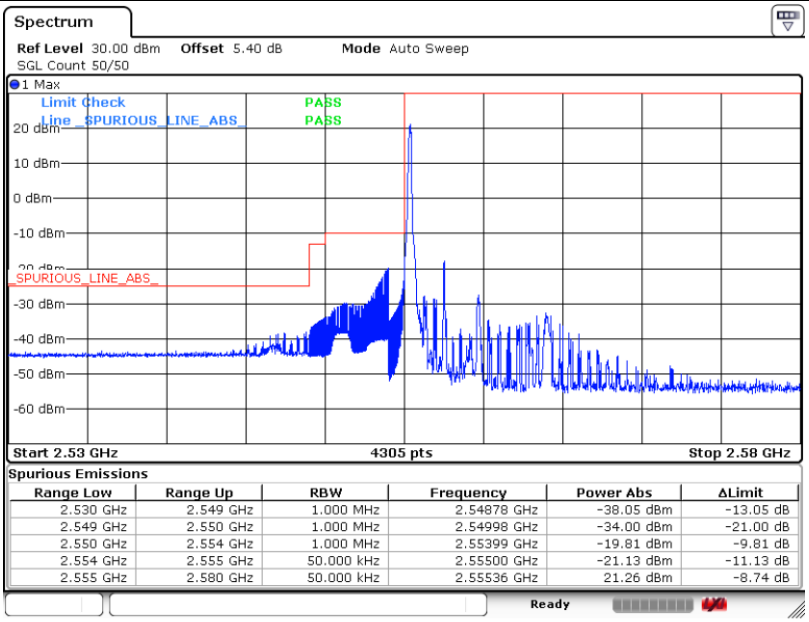
5 Band Edge Compliance

5.1 Test Plots

Band41-5MHz-QPSK-40265-1RB#0

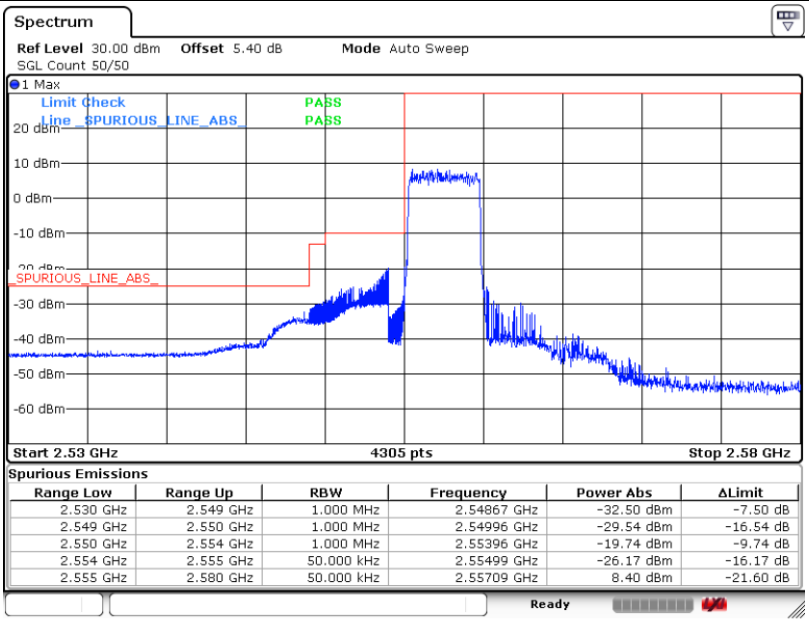


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.530 GHz	2.549 GHz	1.000 MHz	2.54878 GHz	-38.05 dBm	-13.05 dB
2.549 GHz	2.550 GHz	1.000 MHz	2.54998 GHz	-34.00 dBm	-21.00 dB
2.550 GHz	2.554 GHz	1.000 MHz	2.55399 GHz	-19.81 dBm	-9.81 dB
2.554 GHz	2.555 GHz	50.000 kHz	2.55500 GHz	-21.13 dBm	-11.13 dB
2.555 GHz	2.580 GHz	50.000 kHz	2.55536 GHz	21.26 dBm	-8.74 dB

Date: 18.MAY.2020 02:59:52

Band41-5MHz-QPSK-40265-25RB#0



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.530 GHz	2.549 GHz	1.000 MHz	2.54867 GHz	-32.50 dBm	-7.50 dB
2.549 GHz	2.550 GHz	1.000 MHz	2.54996 GHz	-29.54 dBm	-16.54 dB
2.550 GHz	2.554 GHz	1.000 MHz	2.55396 GHz	-19.74 dBm	-9.74 dB
2.554 GHz	2.555 GHz	50.000 kHz	2.55499 GHz	-26.17 dBm	-16.17 dB
2.555 GHz	2.580 GHz	50.000 kHz	2.55709 GHz	8.40 dBm	-21.60 dB

Date: 18.MAY.2020 02:51:00

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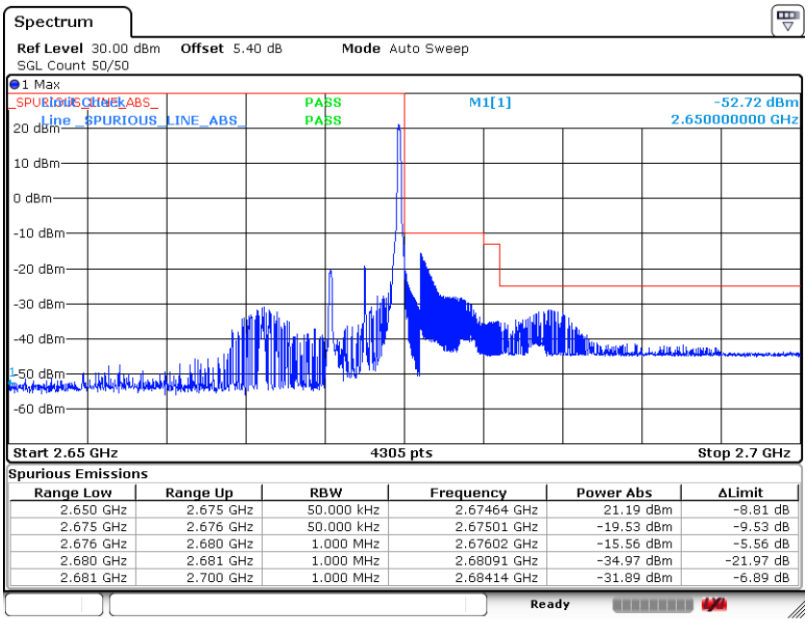
Band41-5MHz-QPSK-41415-1RB#24



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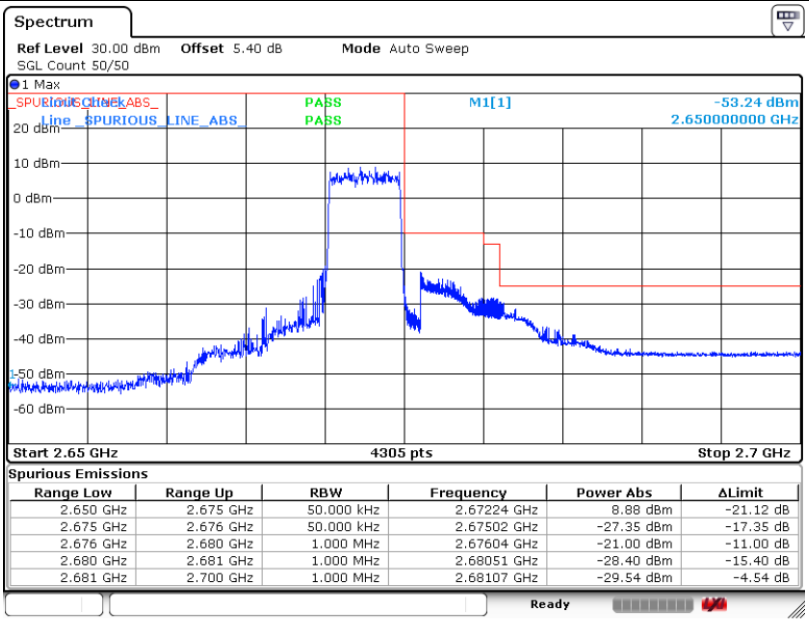
Band41-5MHz-QPSK-41415-25RB#0



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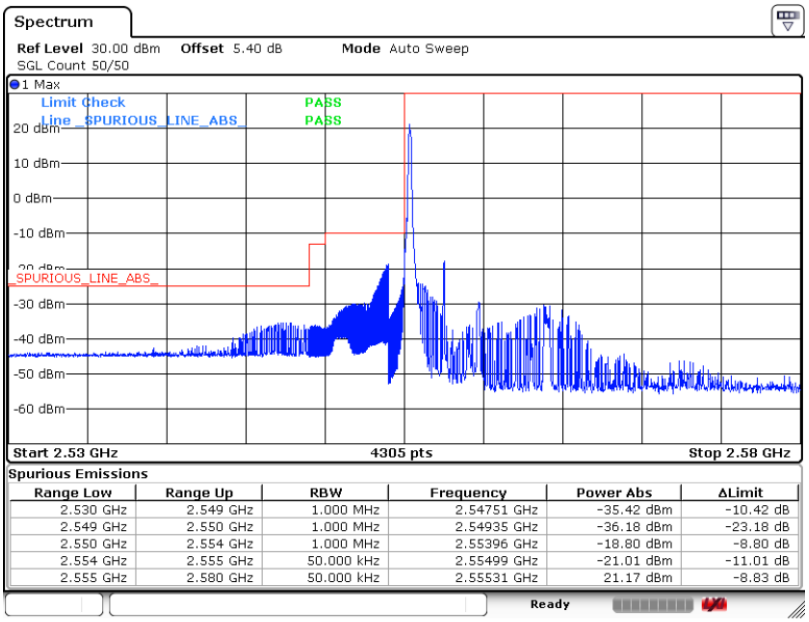
Band41-5MHz-16QAM-40265-1RB#0

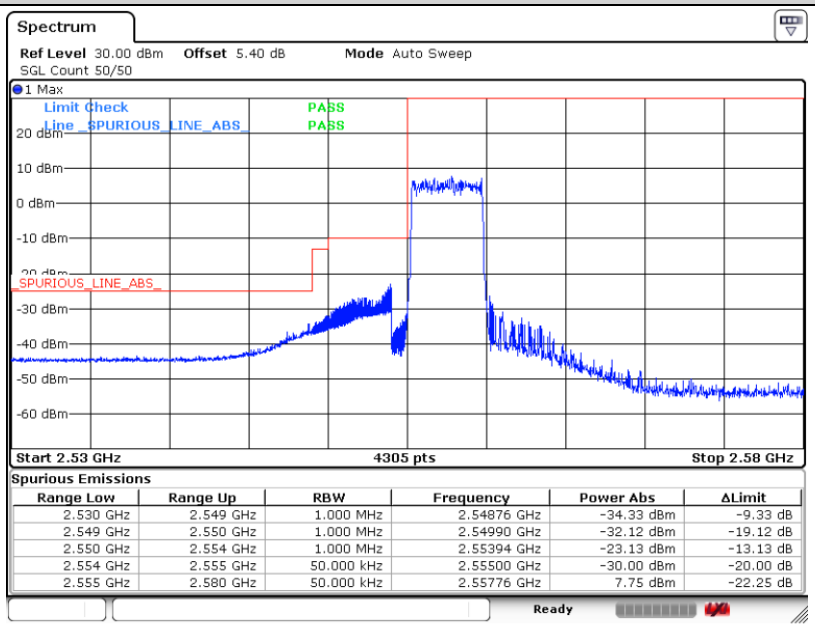


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.530 GHz	2.549 GHz	1.000 MHz	2.54751 GHz	-35.42 dBm	-10.42 dB
2.549 GHz	2.550 GHz	1.000 MHz	2.54935 GHz	-36.18 dBm	-23.18 dB
2.550 GHz	2.554 GHz	1.000 MHz	2.55396 GHz	-18.80 dBm	-8.80 dB
2.554 GHz	2.555 GHz	50.000 kHz	2.55499 GHz	-21.01 dBm	-11.01 dB
2.555 GHz	2.580 GHz	50.000 kHz	2.55531 GHz	21.17 dBm	-8.83 dB

Date: 18.MAY.2020 03:00:47

Band41-5MHz-16QAM-40265-25RB#0



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.530 GHz	2.549 GHz	1.000 MHz	2.54876 GHz	-34.33 dBm	-9.33 dB
2.549 GHz	2.550 GHz	1.000 MHz	2.54990 GHz	-32.12 dBm	-19.12 dB
2.550 GHz	2.554 GHz	1.000 MHz	2.55394 GHz	-23.13 dBm	-13.13 dB
2.554 GHz	2.555 GHz	50.000 kHz	2.55500 GHz	-30.00 dBm	-20.00 dB
2.555 GHz	2.580 GHz	50.000 kHz	2.55776 GHz	7.75 dBm	-22.25 dB

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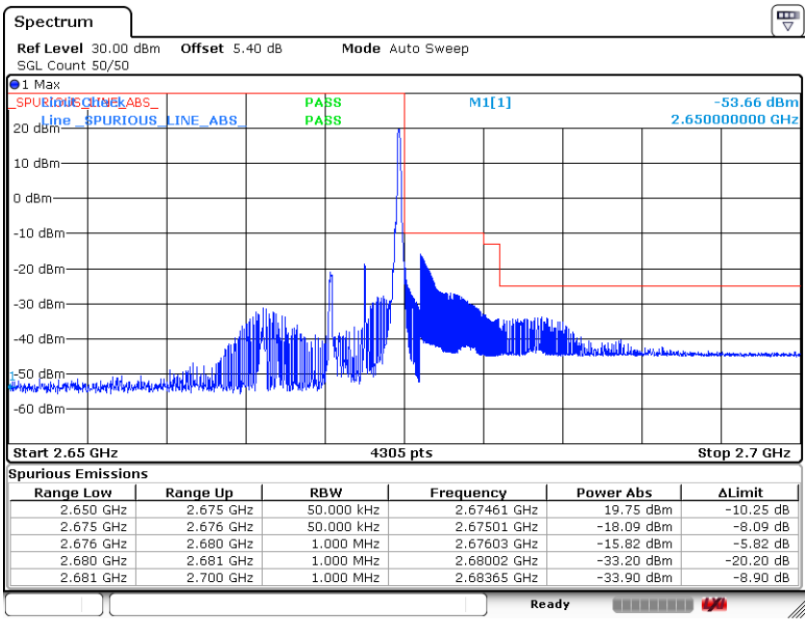

Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.650 GHz	2.675 GHz	50.000 kHz	2.67461 GHz	19.75 dBm	-10.25 dB
2.675 GHz	2.676 GHz	50.000 kHz	2.67501 GHz	-18.09 dBm	-8.09 dB
2.676 GHz	2.680 GHz	1.000 MHz	2.67603 GHz	-15.82 dBm	-5.82 dB
2.680 GHz	2.681 GHz	1.000 MHz	2.68002 GHz	-33.20 dBm	-20.20 dB
2.681 GHz	2.700 GHz	1.000 MHz	2.68365 GHz	-33.90 dBm	-8.90 dB

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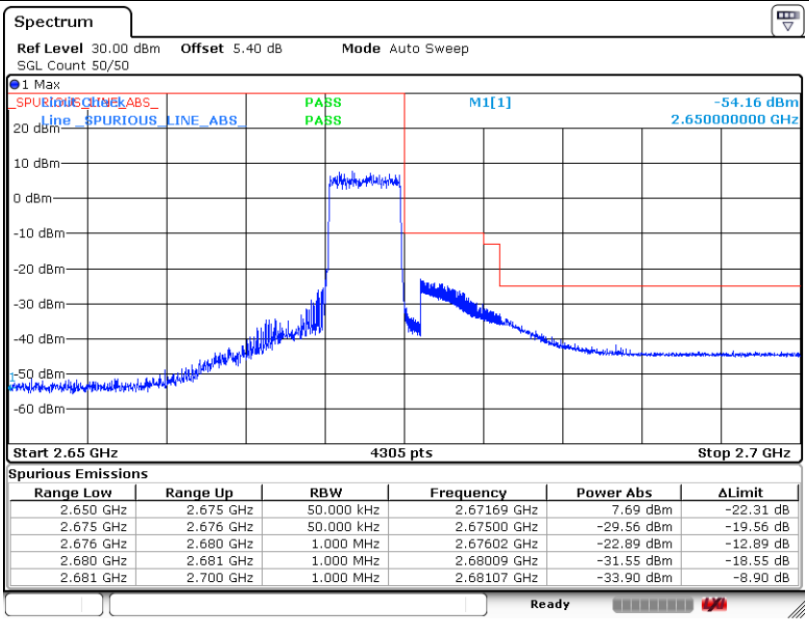
Band41-5MHz-16QAM-41415-25RB#0



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.650 GHz	2.675 GHz	50.000 kHz	2.67169 GHz	7.69 dBm	-22.31 dB
2.675 GHz	2.676 GHz	50.000 kHz	2.67500 GHz	-29.56 dBm	-19.56 dB
2.676 GHz	2.680 GHz	1.000 MHz	2.67602 GHz	-22.89 dBm	-12.89 dB
2.680 GHz	2.681 GHz	1.000 MHz	2.68009 GHz	-31.55 dBm	-18.55 dB
2.681 GHz	2.700 GHz	1.000 MHz	2.68107 GHz	-33.90 dBm	-8.90 dB

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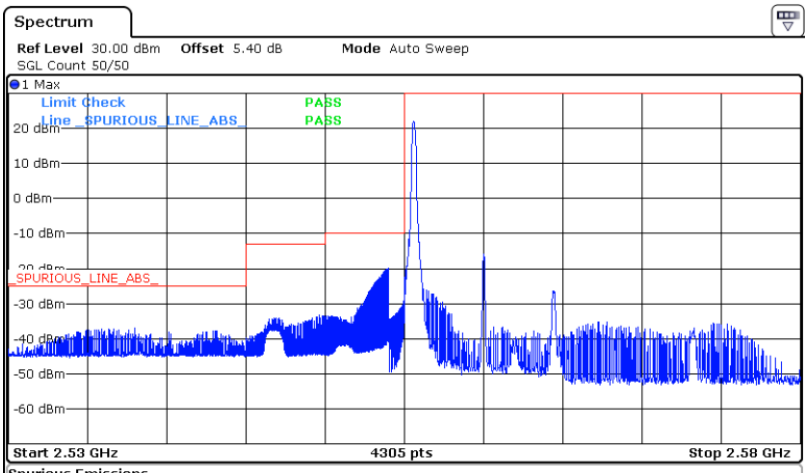
Band41-10MHz-QPSK-40290-1RB#0



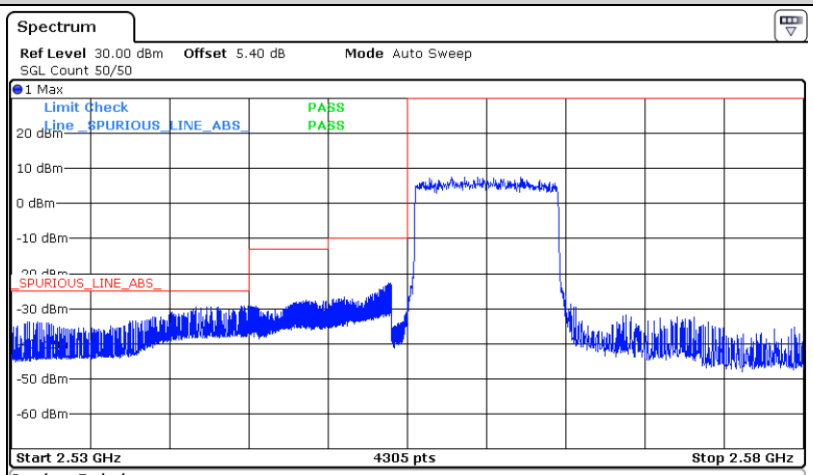
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.530 GHz	2.545 GHz	1.000 MHz	2.53799 GHz	-37.03 dBm	-12.03 dB
2.545 GHz	2.550 GHz	1.000 MHz	2.54960 GHz	-33.35 dBm	-20.35 dB
2.550 GHz	2.554 GHz	1.000 MHz	2.55397 GHz	-19.91 dBm	-9.91 dB
2.554 GHz	2.555 GHz	100.000 kHz	2.55499 GHz	-28.40 dBm	-18.40 dB
2.555 GHz	2.580 GHz	100.000 kHz	2.55559 GHz	22.14 dBm	-7.86 dB

Ready

Date: 18.MAY.2020 03:11:15

Band41-10MHz-QPSK-40290-50RB#0



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.530 GHz	2.545 GHz	1.000 MHz	2.54447 GHz	-29.27 dBm	-4.27 dB
2.545 GHz	2.550 GHz	1.000 MHz	2.54858 GHz	-27.52 dBm	-14.52 dB
2.550 GHz	2.554 GHz	1.000 MHz	2.55390 GHz	-22.63 dBm	-12.63 dB
2.554 GHz	2.555 GHz	100.000 kHz	2.55493 GHz	-30.97 dBm	-20.97 dB
2.555 GHz	2.580 GHz	100.000 kHz	2.56218 GHz	7.62 dBm	-22.38 dB

Ready

Date: 18.MAY.2020 03:10:46

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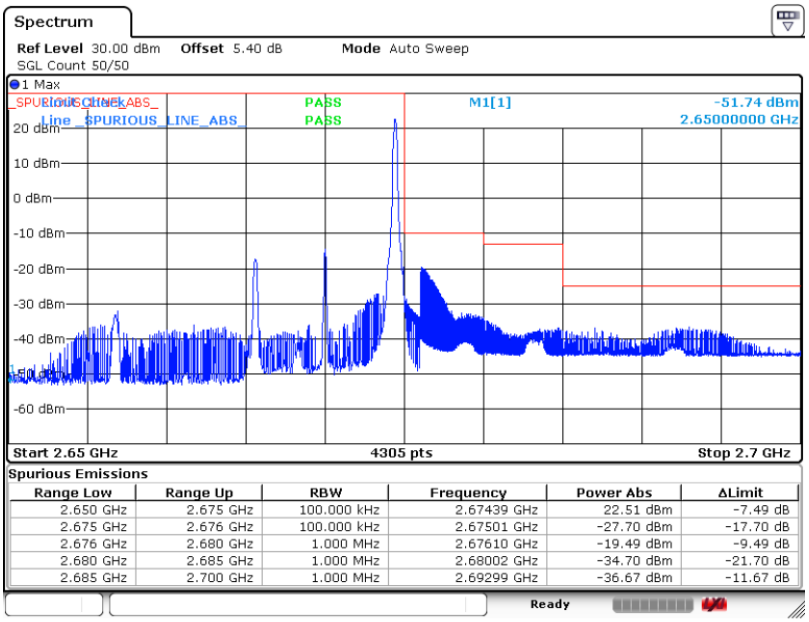
Band41-10MHz-QPSK-41390-1RB#49



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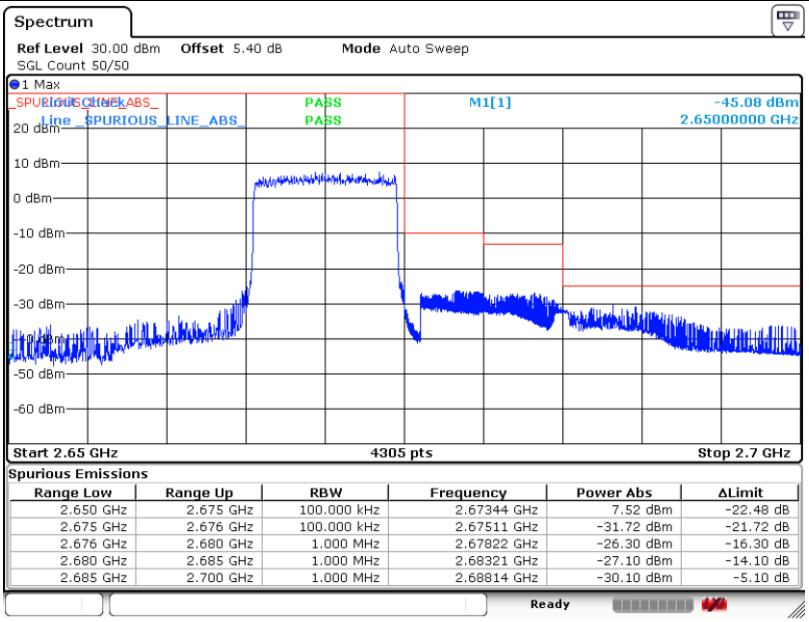
Band41-10MHz-QPSK-41390-50RB#0



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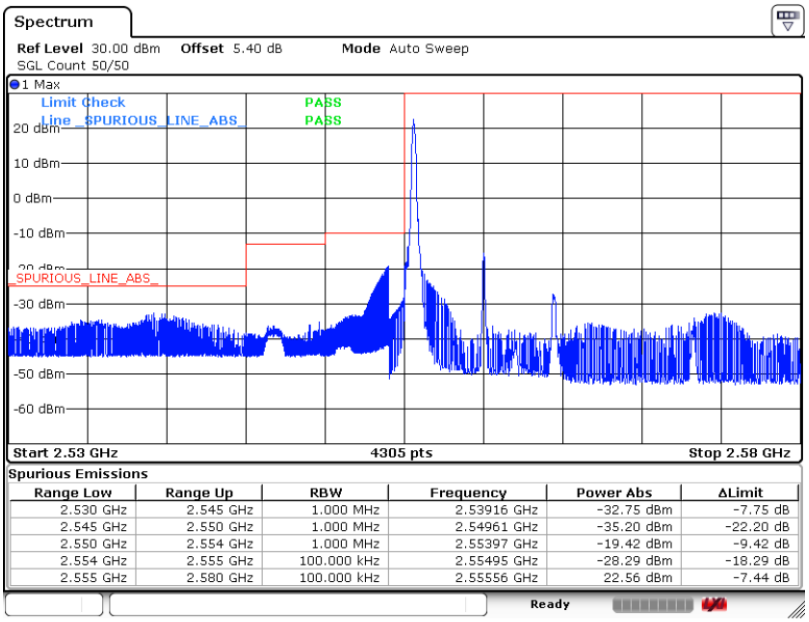
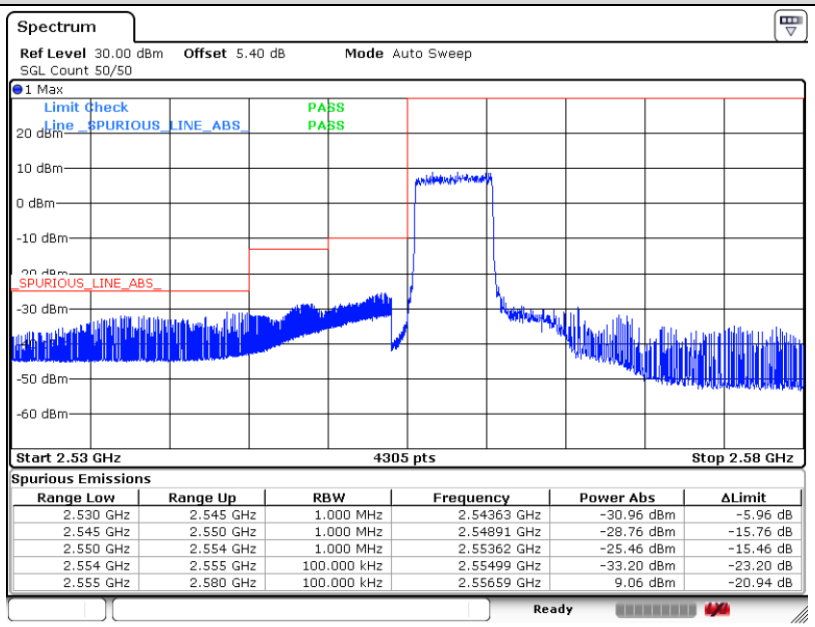


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.530 GHz	2.545 GHz	1.000 MHz	2.53916 GHz	-32.75 dBm	-7.75 dB
2.545 GHz	2.550 GHz	1.000 MHz	2.54961 GHz	-35.20 dBm	-22.20 dB
2.550 GHz	2.554 GHz	1.000 MHz	2.55397 GHz	-19.42 dBm	-9.42 dB
2.554 GHz	2.555 GHz	100.000 kHz	2.55495 GHz	-28.29 dBm	-18.29 dB
2.555 GHz	2.580 GHz	100.000 kHz	2.55556 GHz	22.56 dBm	-7.44 dB

Date: 18.MAY.2020 03:13:38

Band41-10MHz-16QAM -40290-50RB#0



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.530 GHz	2.545 GHz	1.000 MHz	2.54363 GHz	-30.96 dBm	-5.96 dB
2.545 GHz	2.550 GHz	1.000 MHz	2.54891 GHz	-28.76 dBm	-15.76 dB
2.550 GHz	2.554 GHz	1.000 MHz	2.55362 GHz	-25.46 dBm	-15.46 dB
2.554 GHz	2.555 GHz	100.000 kHz	2.55499 GHz	-33.20 dBm	-23.20 dB
2.555 GHz	2.580 GHz	100.000 kHz	2.55659 GHz	9.06 dBm	-20.94 dB

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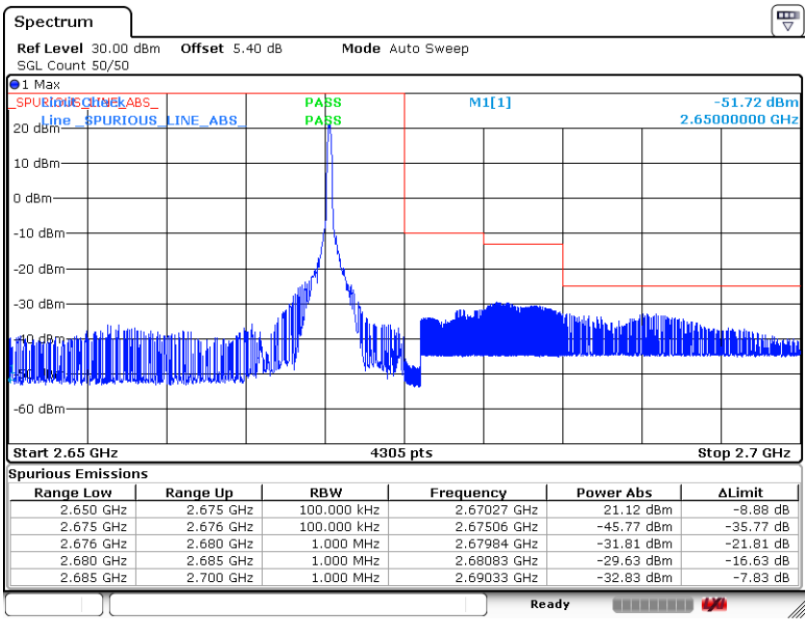
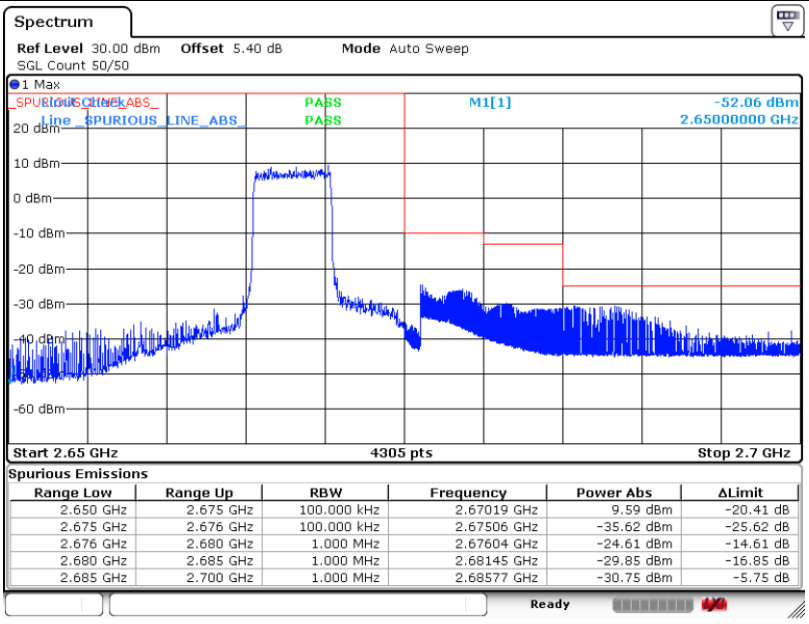


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.650 GHz	2.675 GHz	100.000 kHz	2.67027 GHz	21.12 dBm	-8.88 dB
2.675 GHz	2.676 GHz	100.000 kHz	2.67506 GHz	-45.77 dBm	-35.77 dB
2.676 GHz	2.680 GHz	1.000 MHz	2.67984 GHz	-31.81 dBm	-21.81 dB
2.680 GHz	2.685 GHz	1.000 MHz	2.68083 GHz	-29.63 dBm	-16.63 dB
2.685 GHz	2.700 GHz	1.000 MHz	2.69033 GHz	-32.83 dBm	-7.83 dB

Date: 18.MAY.2020 03:16:14

Band41-10MHz-16QAM -41390-50RB#0



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.650 GHz	2.675 GHz	100.000 kHz	2.67019 GHz	9.59 dBm	-20.41 dB
2.675 GHz	2.676 GHz	100.000 kHz	2.67506 GHz	-35.62 dBm	-25.62 dB
2.676 GHz	2.680 GHz	1.000 MHz	2.67604 GHz	-24.61 dBm	-14.61 dB
2.680 GHz	2.685 GHz	1.000 MHz	2.68145 GHz	-29.85 dBm	-16.85 dB
2.685 GHz	2.700 GHz	1.000 MHz	2.68577 GHz	-30.75 dBm	-5.75 dB

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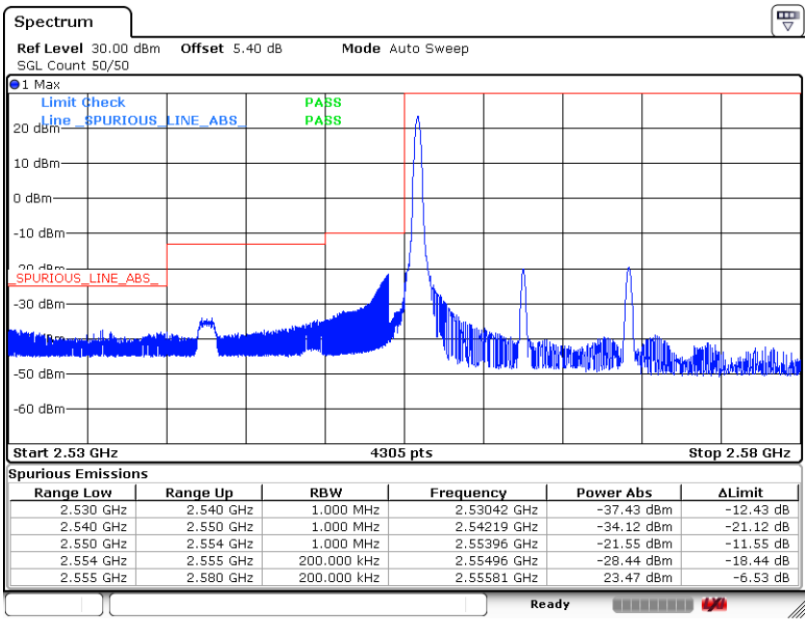
Band41-15MHz-QPSK-40315-1RB#0

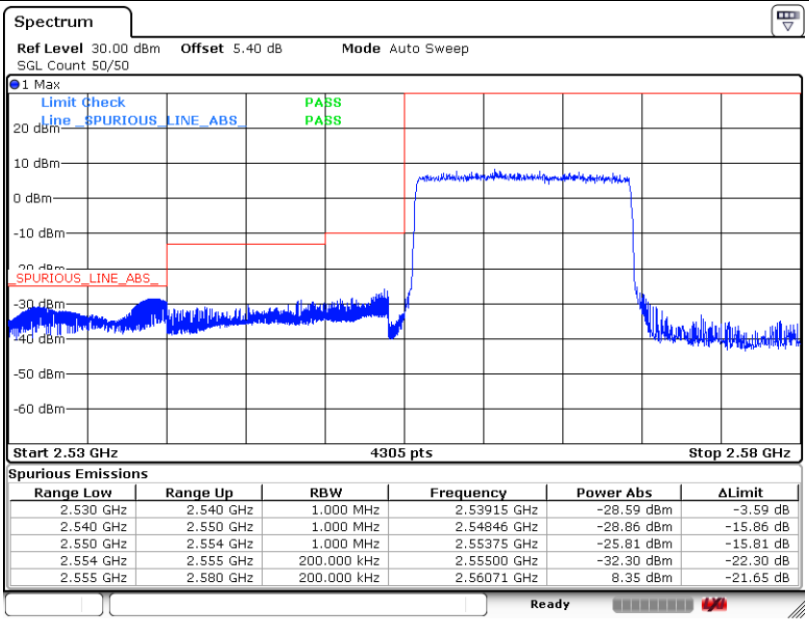


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.530 GHz	2.540 GHz	1.000 MHz	2.53042 GHz	-37.43 dBm	-12.43 dB
2.540 GHz	2.550 GHz	1.000 MHz	2.54219 GHz	-34.12 dBm	-21.12 dB
2.550 GHz	2.554 GHz	1.000 MHz	2.55396 GHz	-21.55 dBm	-11.55 dB
2.554 GHz	2.555 GHz	200.000 kHz	2.55496 GHz	-28.44 dBm	-18.44 dB
2.555 GHz	2.580 GHz	200.000 kHz	2.55581 GHz	23.47 dBm	-6.53 dB

Date: 18.MAY.2020 03:29:32

Band41-15MHz-QPSK-40315-75RB#0



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.530 GHz	2.540 GHz	1.000 MHz	2.53915 GHz	-28.59 dBm	-3.59 dB
2.540 GHz	2.550 GHz	1.000 MHz	2.54846 GHz	-28.86 dBm	-15.86 dB
2.550 GHz	2.554 GHz	1.000 MHz	2.55375 GHz	-25.81 dBm	-15.81 dB
2.554 GHz	2.555 GHz	200.000 kHz	2.55500 GHz	-32.30 dBm	-22.30 dB
2.555 GHz	2.580 GHz	200.000 kHz	2.56071 GHz	8.35 dBm	-21.65 dB

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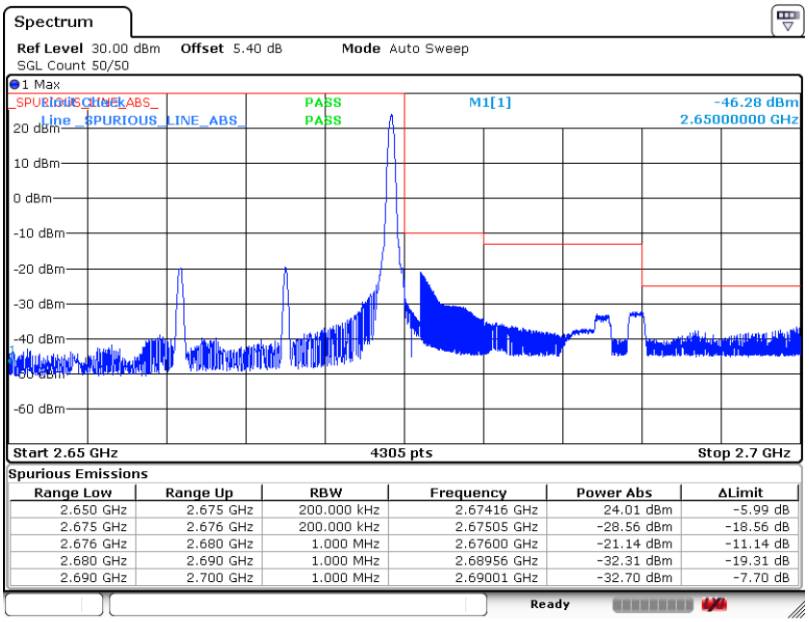

Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.650 GHz	2.675 GHz	200.000 kHz	2.67416 GHz	24.01 dBm	-5.99 dB
2.675 GHz	2.676 GHz	200.000 kHz	2.67505 GHz	-28.56 dBm	-18.56 dB
2.676 GHz	2.680 GHz	1.000 MHz	2.67600 GHz	-21.14 dBm	-11.14 dB
2.680 GHz	2.690 GHz	1.000 MHz	2.68956 GHz	-32.31 dBm	-19.31 dB
2.690 GHz	2.700 GHz	1.000 MHz	2.69001 GHz	-32.70 dBm	-7.70 dB

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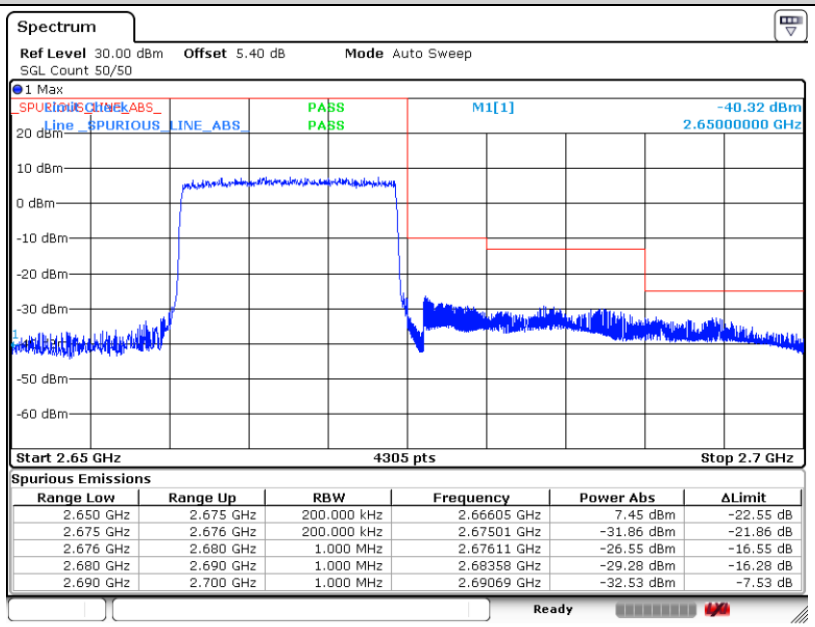
Band41-15MHz-QPSK-41365-75RB#0



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.650 GHz	2.675 GHz	200.000 kHz	2.66605 GHz	7.45 dBm	-22.55 dB
2.675 GHz	2.676 GHz	200.000 kHz	2.67501 GHz	-31.86 dBm	-21.86 dB
2.676 GHz	2.680 GHz	1.000 MHz	2.67611 GHz	-26.55 dBm	-16.55 dB
2.680 GHz	2.690 GHz	1.000 MHz	2.68358 GHz	-29.28 dBm	-16.28 dB
2.690 GHz	2.700 GHz	1.000 MHz	2.69069 GHz	-32.53 dBm	-7.53 dB

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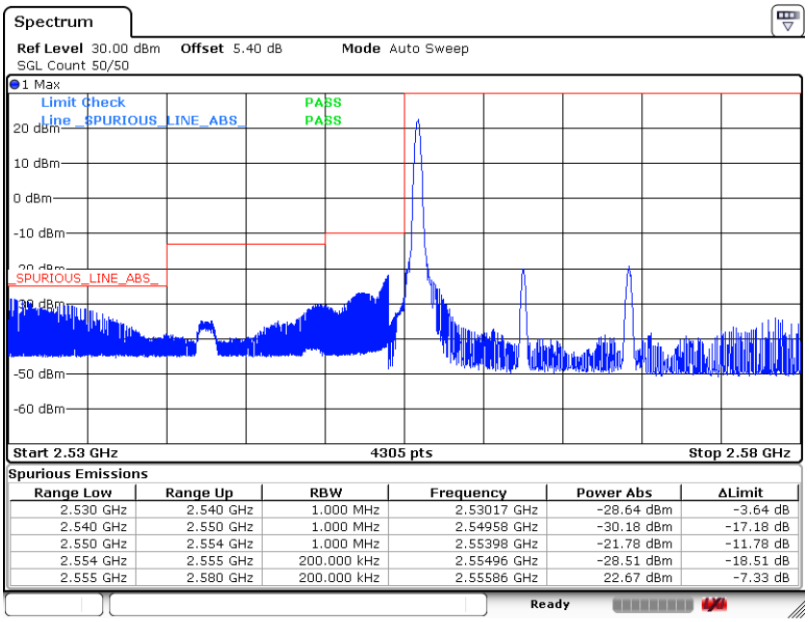
Band41-15MHz-16QAM-40315-1RB#0



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.530 GHz	2.540 GHz	1.000 MHz	2.53017 GHz	-28.64 dBm	-3.64 dB
2.540 GHz	2.550 GHz	1.000 MHz	2.54958 GHz	-30.18 dBm	-17.18 dB
2.550 GHz	2.554 GHz	1.000 MHz	2.55398 GHz	-21.78 dBm	-11.78 dB
2.554 GHz	2.555 GHz	200.000 kHz	2.55496 GHz	-28.51 dBm	-18.51 dB
2.555 GHz	2.580 GHz	200.000 kHz	2.55586 GHz	22.67 dBm	-7.33 dB

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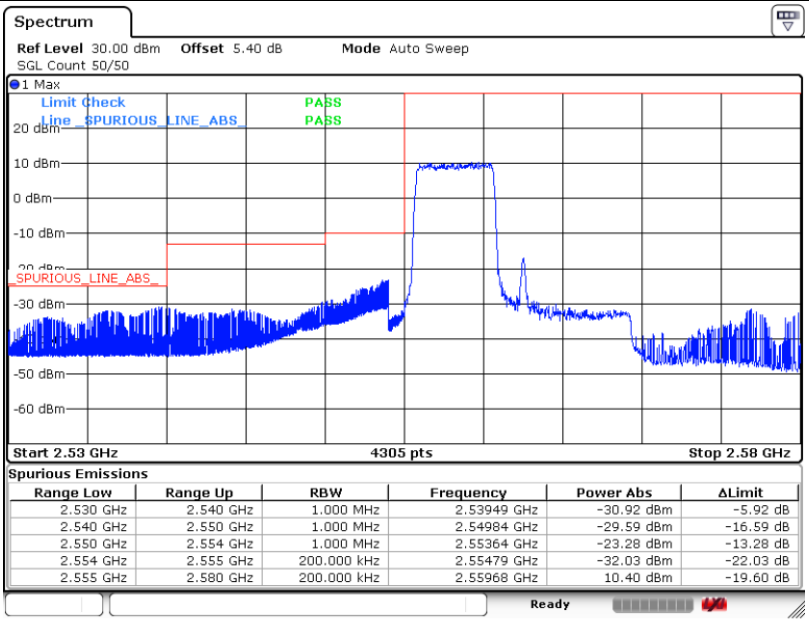
Band41-15MHz-16QAM-40315-75RB#0



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.530 GHz	2.540 GHz	1.000 MHz	2.53949 GHz	-30.92 dBm	-5.92 dB
2.540 GHz	2.550 GHz	1.000 MHz	2.54984 GHz	-29.59 dBm	-16.59 dB
2.550 GHz	2.554 GHz	1.000 MHz	2.55364 GHz	-23.28 dBm	-13.28 dB
2.554 GHz	2.555 GHz	200.000 kHz	2.55479 GHz	-32.03 dBm	-22.03 dB
2.555 GHz	2.580 GHz	200.000 kHz	2.55968 GHz	10.40 dBm	-19.60 dB

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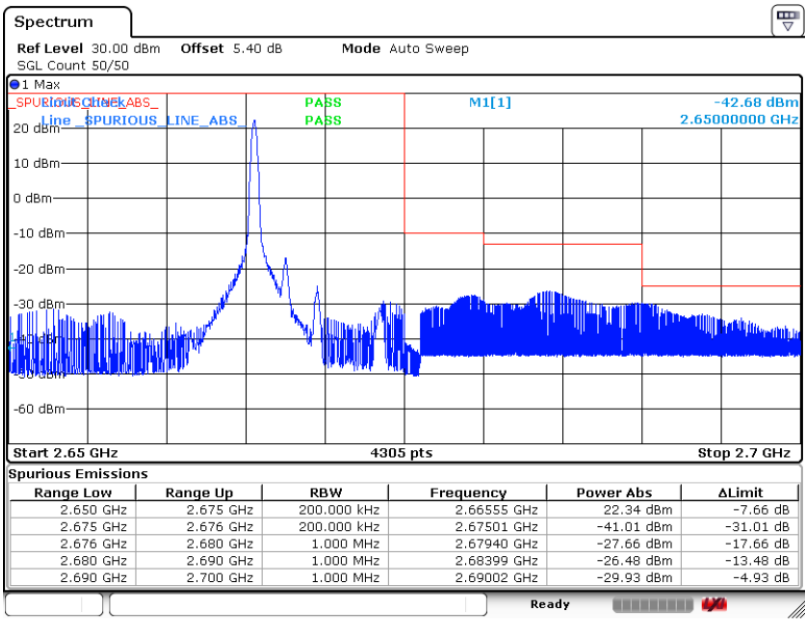

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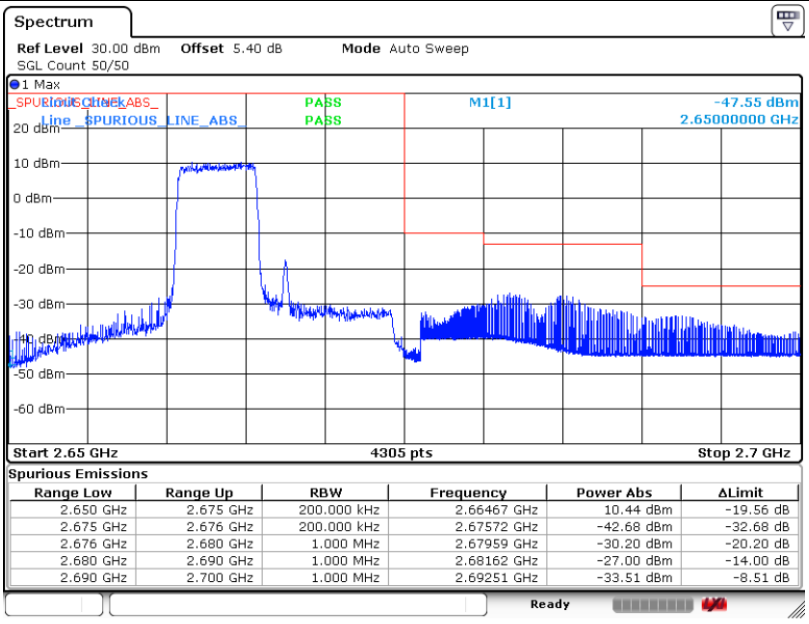
Band41-15MHz-16QAM-41365-75RB#0



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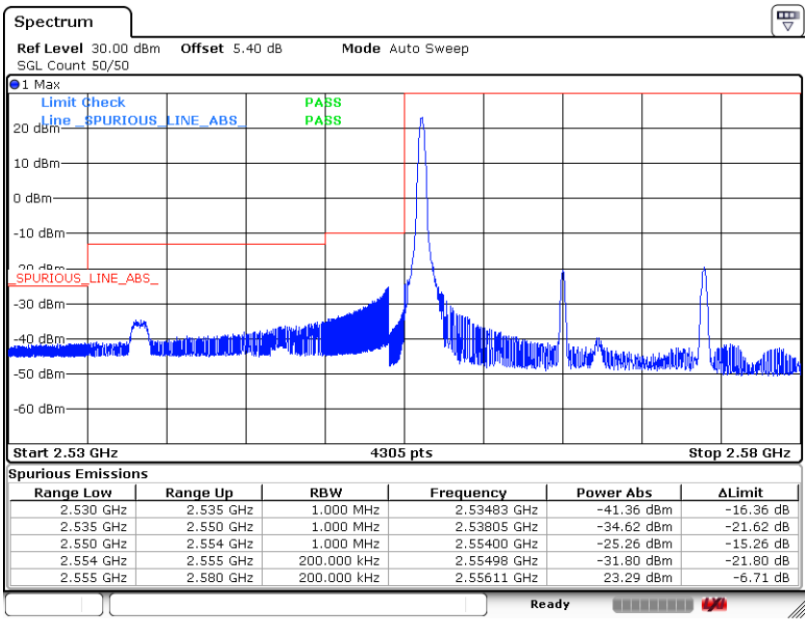
Band41-20MHz-QPSK-40340-1RB#0

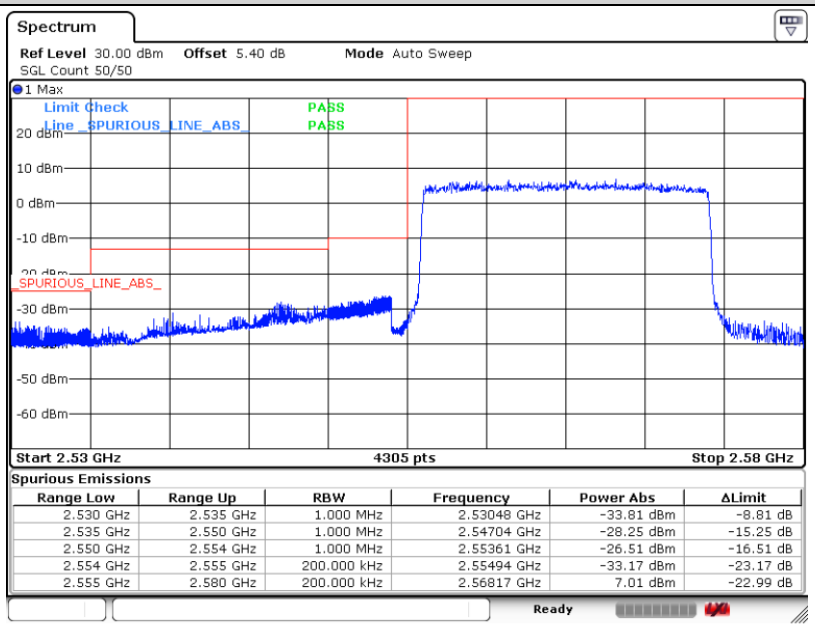


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.530 GHz	2.535 GHz	1.000 MHz	2.53483 GHz	-41.36 dBm	-16.36 dB
2.535 GHz	2.550 GHz	1.000 MHz	2.53805 GHz	-34.62 dBm	-21.62 dB
2.550 GHz	2.554 GHz	1.000 MHz	2.55400 GHz	-25.26 dBm	-15.26 dB
2.554 GHz	2.555 GHz	200.000 kHz	2.55498 GHz	-31.80 dBm	-21.80 dB
2.555 GHz	2.580 GHz	200.000 kHz	2.55611 GHz	23.29 dBm	-6.71 dB

Date: 18.MAY.2020 03:48:13

Band41-20MHz-QPSK-40340-100RB#0



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.530 GHz	2.535 GHz	1.000 MHz	2.53048 GHz	-33.81 dBm	-8.81 dB
2.535 GHz	2.550 GHz	1.000 MHz	2.54704 GHz	-28.25 dBm	-15.25 dB
2.550 GHz	2.554 GHz	1.000 MHz	2.55361 GHz	-26.51 dBm	-16.51 dB
2.554 GHz	2.555 GHz	200.000 kHz	2.55494 GHz	-33.17 dBm	-23.17 dB
2.555 GHz	2.580 GHz	200.000 kHz	2.56817 GHz	7.01 dBm	-22.99 dB

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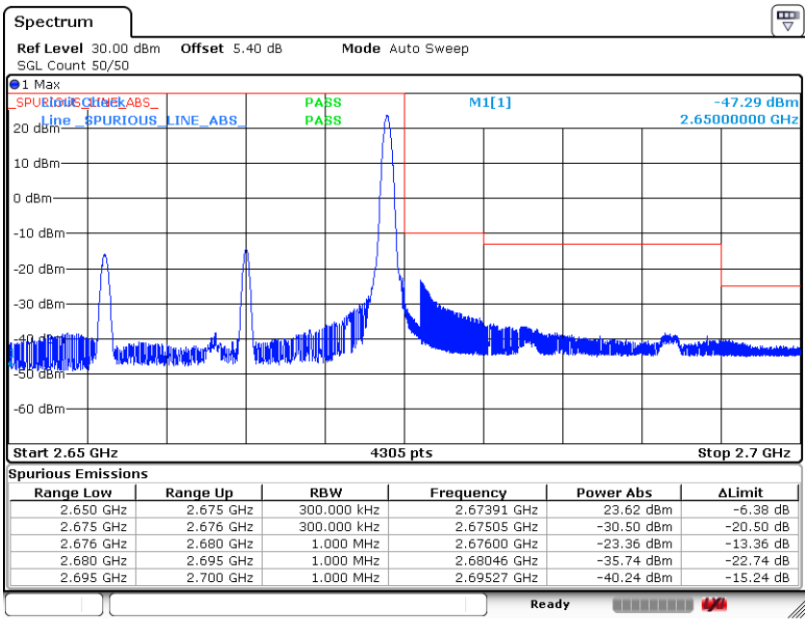
Band41-20MHz-QPSK-41340-1RB#99

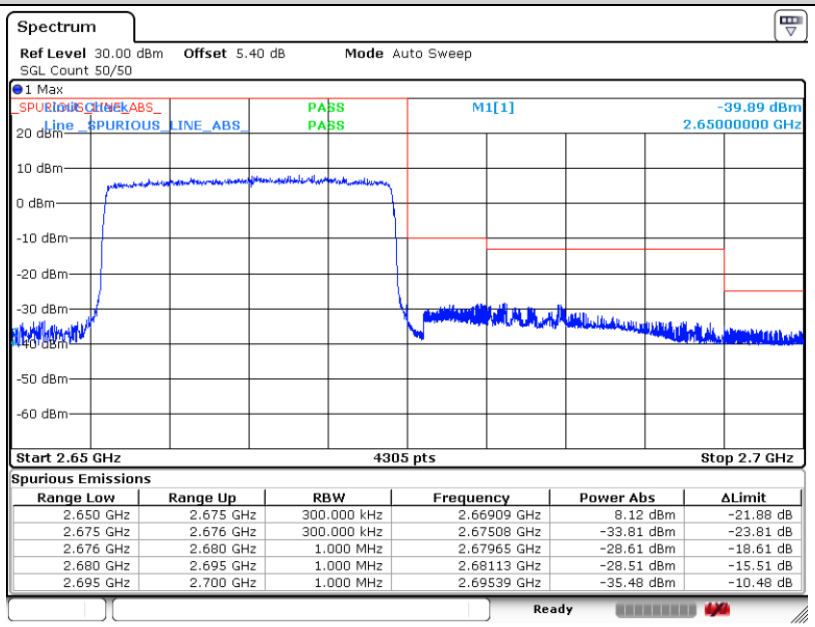


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.650 GHz	2.675 GHz	300.000 kHz	2.67391 GHz	23.62 dBm	-6.38 dB
2.675 GHz	2.676 GHz	300.000 kHz	2.67505 GHz	-30.50 dBm	-20.50 dB
2.676 GHz	2.680 GHz	1.000 MHz	2.67600 GHz	-23.36 dBm	-13.36 dB
2.680 GHz	2.695 GHz	1.000 MHz	2.68046 GHz	-35.74 dBm	-22.74 dB
2.695 GHz	2.700 GHz	1.000 MHz	2.69527 GHz	-40.24 dBm	-15.24 dB

Date: 18.MAY.2020 04:12:39

Band41-20MHz-QPSK-41340-100RB#0



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.650 GHz	2.675 GHz	300.000 kHz	2.66909 GHz	8.12 dBm	-21.88 dB
2.675 GHz	2.676 GHz	300.000 kHz	2.67508 GHz	-33.81 dBm	-23.81 dB
2.676 GHz	2.680 GHz	1.000 MHz	2.67965 GHz	-28.61 dBm	-18.61 dB
2.680 GHz	2.695 GHz	1.000 MHz	2.68113 GHz	-28.51 dBm	-15.51 dB
2.695 GHz	2.700 GHz	1.000 MHz	2.69539 GHz	-35.48 dBm	-10.48 dB

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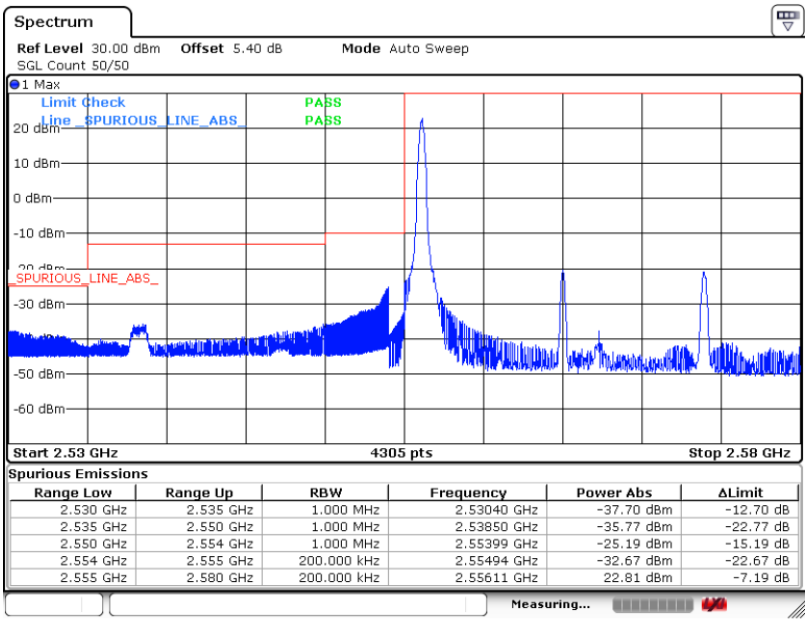

Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.530 GHz	2.535 GHz	1.000 MHz	2.53040 GHz	-37.70 dBm	-12.70 dB
2.535 GHz	2.550 GHz	1.000 MHz	2.53850 GHz	-35.77 dBm	-22.77 dB
2.550 GHz	2.554 GHz	1.000 MHz	2.55399 GHz	-25.19 dBm	-15.19 dB
2.554 GHz	2.555 GHz	200.000 kHz	2.55494 GHz	-32.67 dBm	-22.67 dB
2.555 GHz	2.580 GHz	200.000 kHz	2.55611 GHz	22.81 dBm	-7.19 dB

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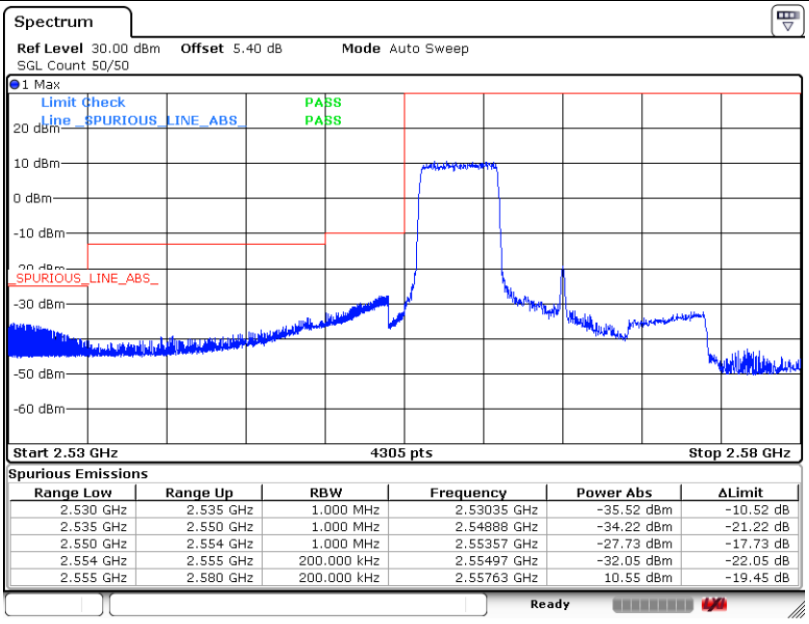

Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.530 GHz	2.535 GHz	1.000 MHz	2.53035 GHz	-35.52 dBm	-10.52 dB
2.535 GHz	2.550 GHz	1.000 MHz	2.54888 GHz	-34.22 dBm	-21.22 dB
2.550 GHz	2.554 GHz	1.000 MHz	2.55357 GHz	-27.73 dBm	-17.73 dB
2.554 GHz	2.555 GHz	200.000 kHz	2.55497 GHz	-32.05 dBm	-22.05 dB
2.555 GHz	2.580 GHz	200.000 kHz	2.55763 GHz	10.55 dBm	-19.45 dB

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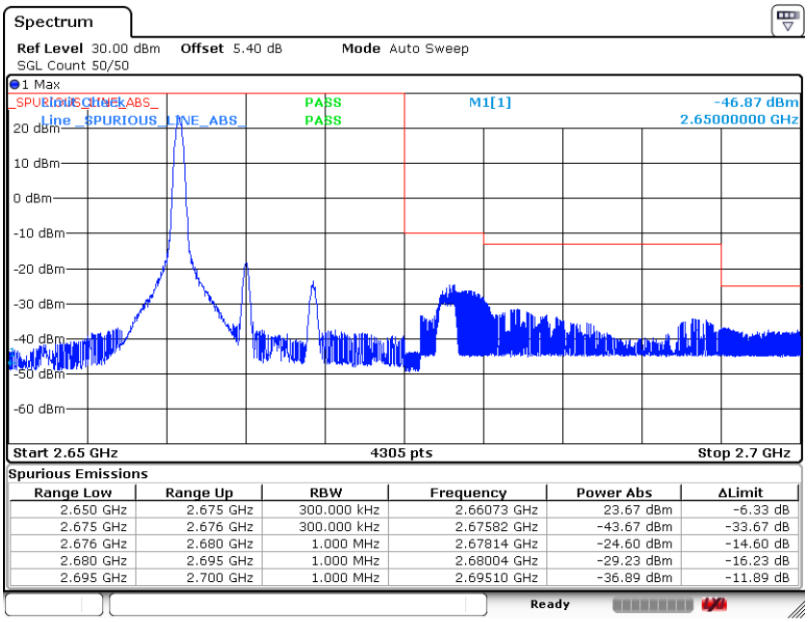

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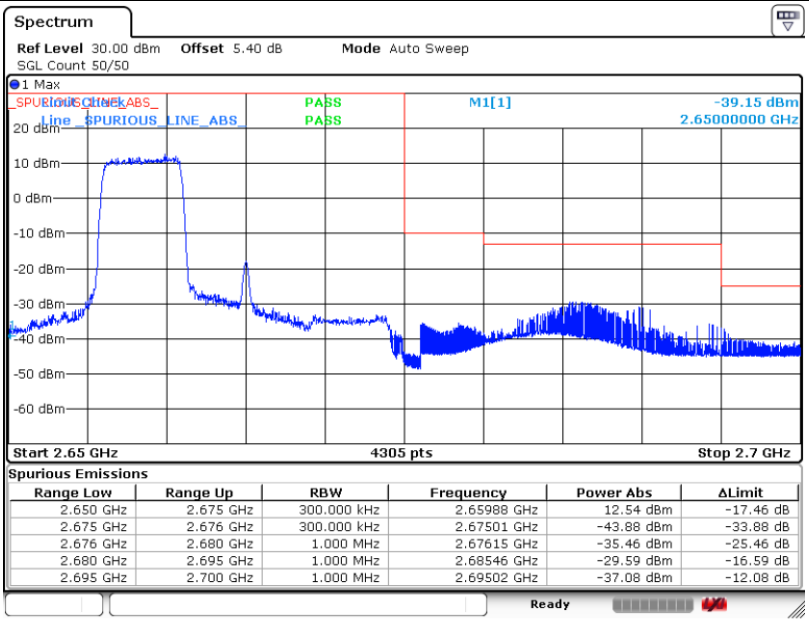
Band41-20MHz-16QAM-41340-100RB#0



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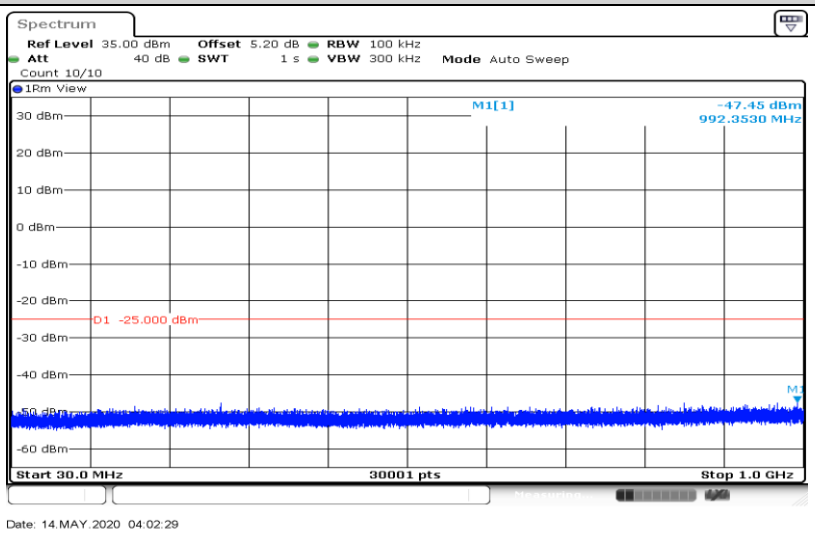
6 Spurious Emission at Antenna Terminal

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

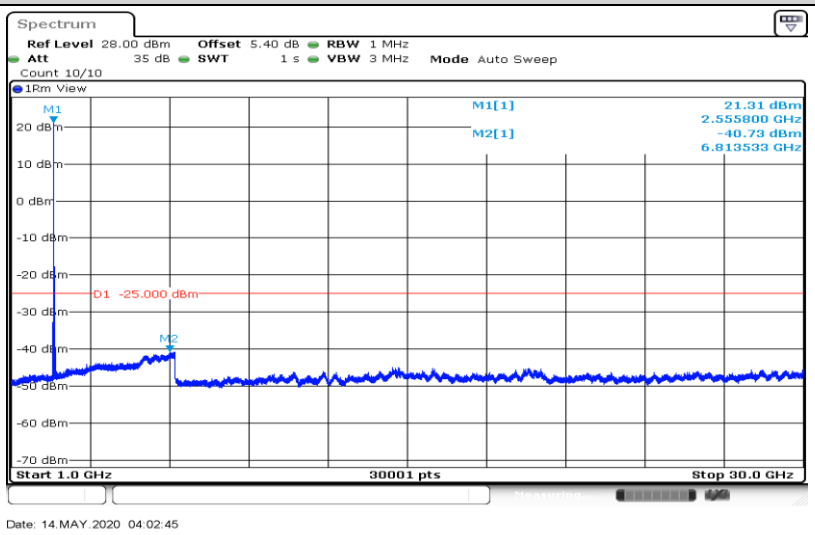
Remark2: only the worst case data displayed in this report.

6.1 Test Plots

Band41-20MHz-QPSK-40340-1RB#0-Range1:30~1000MHz



Band41-20MHz-QPSK-40340-1RB#0-Range2:1000~30000MHz



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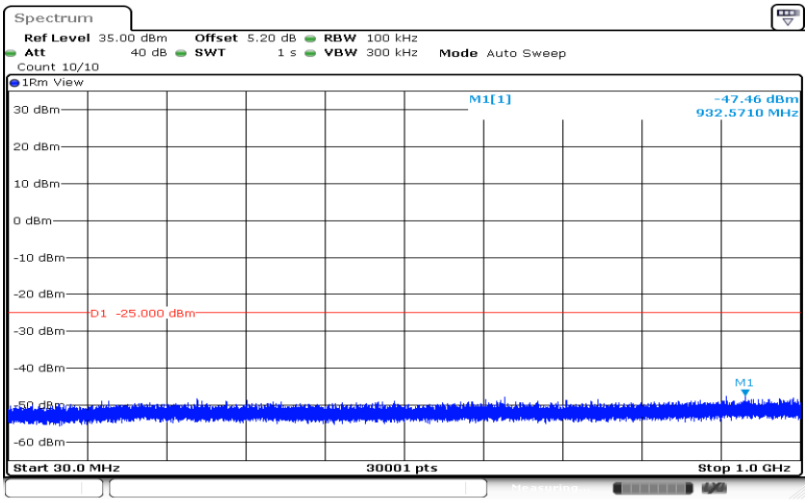
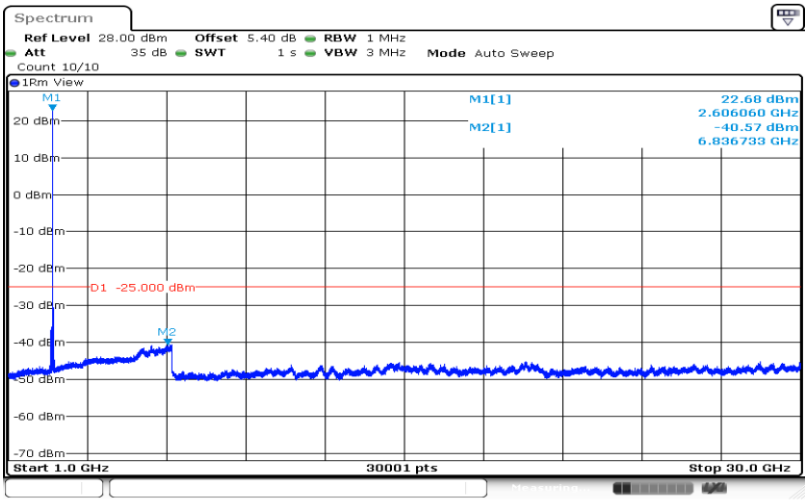
Band41-20MHz-QPSK-40840-1RB#0-Range1:30~1000MHz

Band41-20MHz-QPSK-40840-1RB#0-Range2:1000~30000MHz


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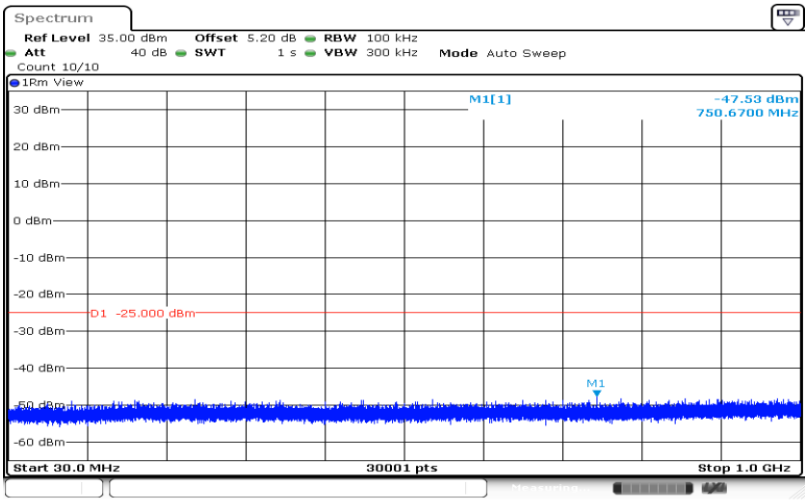
Band41-20MHz-QPSK-41340-1RB#0-Range1:30~1000MHz



Date: 14.MAY.2020 04:03:40

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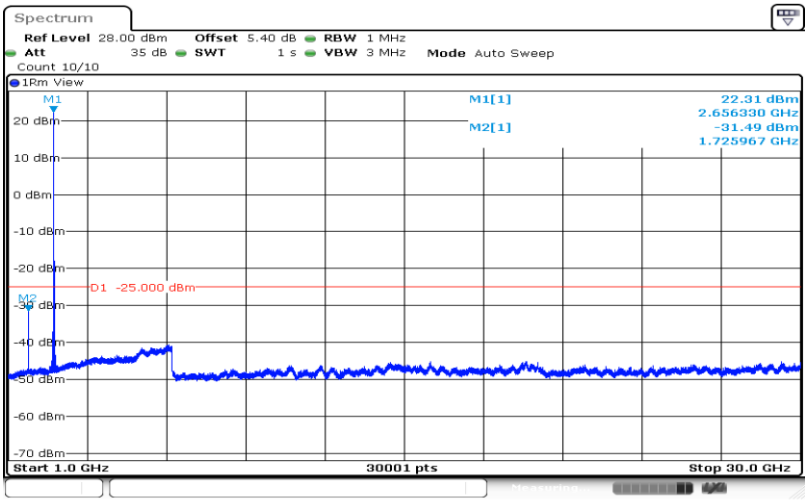

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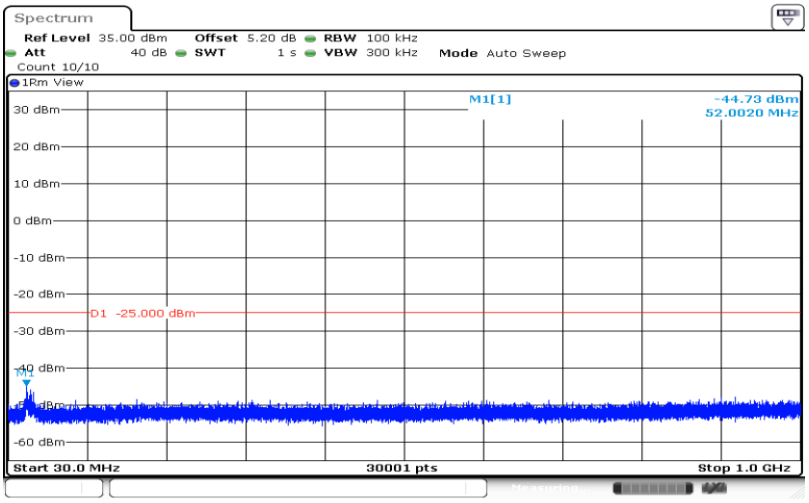
Band41-20MHz-16QAM-40340-1RB#0-Range1:30~1000MHz

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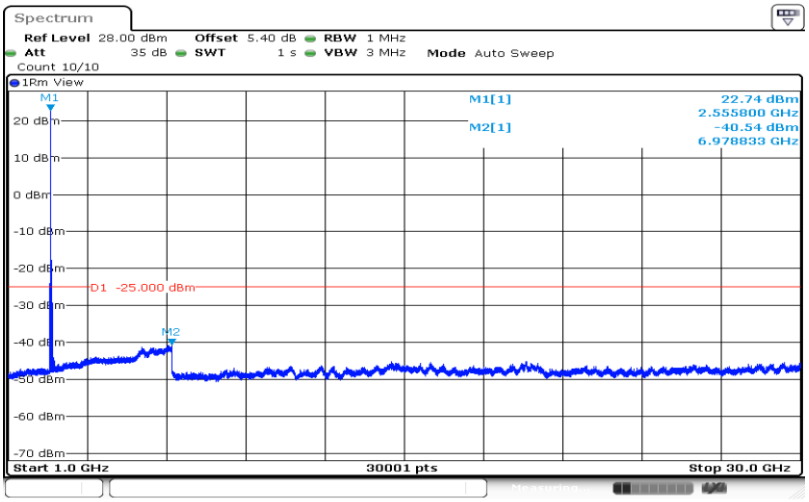

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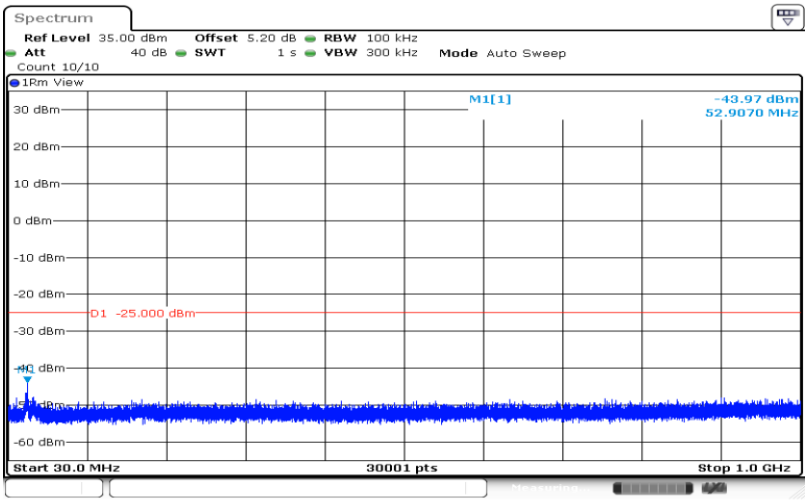
Band41-20MHz-16QAM-40840-1RB#0-Range1:30~1000MHz



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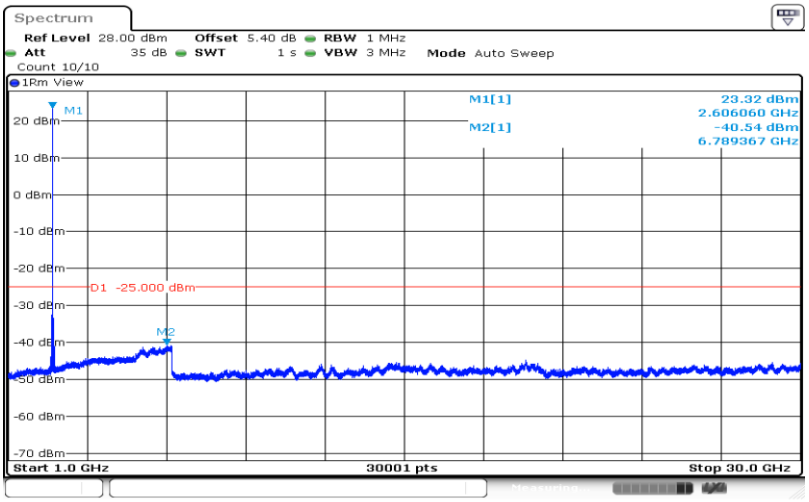
Band41-20MHz-16QAM-40840-1RB#0-Range2:1000~30000MHz



Date: 18.MAY.2020 04:29:30

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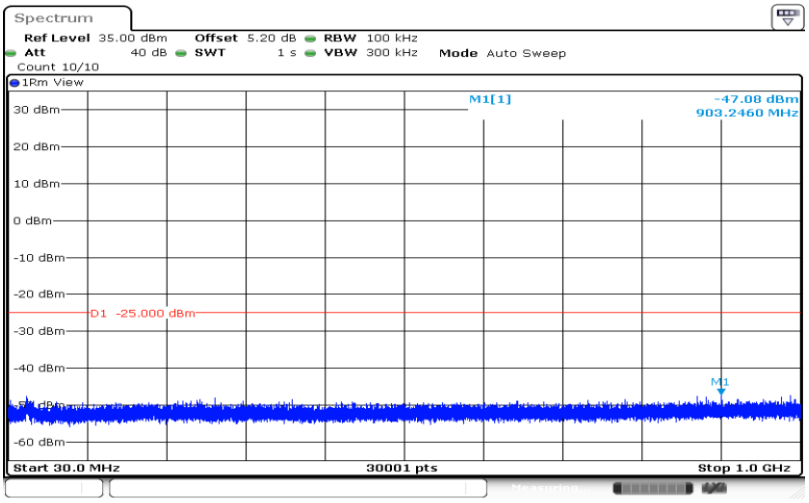

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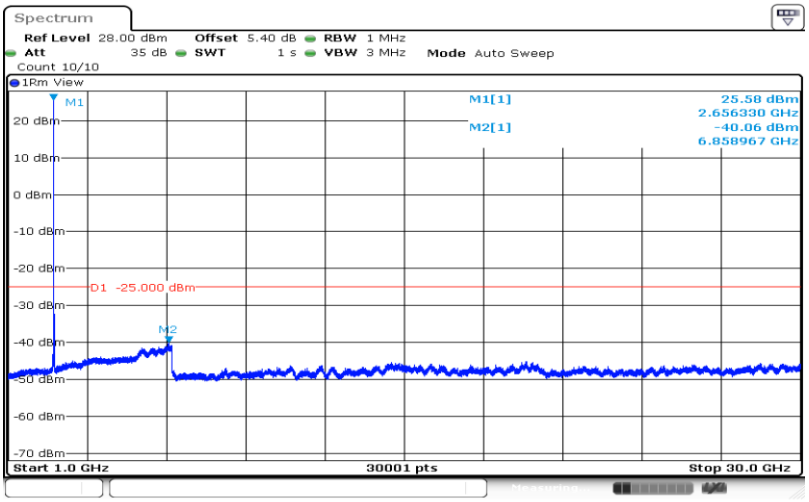

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7 Field Strength of Spurious Radiation

7.1 Test Mode =LTE/TM1 20MHz

1.1.3. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
65.000000	-79.73	-25.00	54.73	Vertical
358.650000	-84.20	-25.00	59.20	Vertical
947.383333	-75.40	-25.00	50.40	Vertical
5093.975000	-64.64	-25.00	39.64	Vertical
7668.300000	-50.52	-25.00	25.52	Vertical
10307.625000	-61.46	-25.00	36.46	Vertical
62.200000	-75.40	-25.00	50.40	Horizontal
273.650000	-85.61	-25.00	60.61	Horizontal
954.441667	-74.60	-25.00	49.60	Horizontal
5112.175000	-56.39	-25.00	31.39	Horizontal
7668.300000	-43.00	-25.00	18.00	Horizontal
10563.400000	-60.92	-25.00	35.92	Horizontal

1.1.4. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
64.400000	-79.81	-25.00	54.81	Vertical
345.600000	-83.89	-25.00	58.89	Vertical
950.270833	-74.88	-25.00	49.88	Vertical
5195.375000	-65.03	-25.00	40.03	Vertical
7752.475000	-48.29	-25.00	23.29	Vertical
10610.525000	-60.51	-25.00	35.51	Vertical
62.550000	-75.36	-25.00	50.36	Horizontal
275.200000	-85.64	-25.00	60.64	Horizontal
950.500000	-75.14	-25.00	50.14	Horizontal
5168.075000	-60.75	-25.00	35.75	Horizontal
7752.150000	-53.39	-25.00	28.39	Horizontal
10623.200000	-60.49	-25.00	35.49	Horizontal

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1.1.5. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
63.850000	-79.83	-25.00	54.83	Vertical
324.100000	-84.88	-25.00	59.88	Vertical
961.454167	-74.50	-25.00	49.50	Vertical
5311.725000	-63.19	-25.00	38.19	Vertical
7968.275000	-51.53	-25.00	26.53	Vertical
10622.225000	-60.91	-25.00	35.91	Vertical
62.700000	-75.42	-25.00	50.42	Horizontal
263.250000	-85.73	-25.00	60.73	Horizontal
970.804167	-74.91	-25.00	49.91	Horizontal
5311.725000	-59.83	-25.00	34.83	Horizontal
7968.275000	-58.78	-25.00	33.78	Horizontal
11184.475000	-61.32	-25.00	36.32	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 Error VS. Voltage

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
LTEBAND 41	LTE/TM1 20MHz	LCH	TN	VL	9.17	0.00365	PASS
				VN	-5.62	-0.00224	PASS
				VH	-4.20	-0.00167	PASS
		MCH	TN	VL	-9.18	-0.00354	PASS
				VN	1.07	0.00041	PASS
				VH	-8.06	-0.00311	PASS
		HCH	TN	VL	-2.03	-0.00076	PASS
				VN	3.86	0.00144	PASS
				VH	5.97	0.00223	PASS
	LTE/TM2 20MHz	LCH	TN	VL	8.50	0.00339	PASS
				VN	-0.56	-0.00022	PASS
				VH	-6.61	-0.00263	PASS
		MCH	TN	VL	-1.89	-0.00073	PASS
				VN	8.68	0.00334	PASS
				VH	7.72	0.00298	PASS
		HCH	TN	VL	-3.16	-0.00118	PASS
				VN	-2.59	-0.00097	PASS
				VH	-6.51	-0.00243	PASS

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8.2 Frequency Error VS. Temperature

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
LTEBAND 41	LTE/TM1 20MHz	LCH	VN	-30	4.02	0.00160	PASS
				-20	7.43	0.00296	PASS
				-10	2.70	0.00107	PASS
				0	-2.19	-0.00087	PASS
				10	-3.00	-0.00120	PASS
				20	9.32	0.00371	PASS
				30	5.41	0.00216	PASS
				40	-5.65	-0.00225	PASS
				50	-9.25	-0.00368	PASS
		MCH	VN	-30	-2.37	-0.00091	PASS
				-20	-9.54	-0.00368	PASS
				-10	5.13	0.00198	PASS
				0	3.51	0.00135	PASS
				10	8.81	0.00339	PASS
				20	8.90	0.00343	PASS
				30	6.61	0.00255	PASS
				40	0.74	0.00029	PASS
				50	6.87	0.00265	PASS
		HCH	VN	-30	0.72	0.00027	PASS
				-20	4.09	0.00153	PASS
				-10	5.80	0.00216	PASS
				0	-4.93	-0.00184	PASS
				10	4.68	0.00175	PASS
				20	-4.22	-0.00157	PASS
				30	9.68	0.00361	PASS
				40	-0.11	-0.00004	PASS
				50	2.18	0.00081	PASS

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
LTEBAND 41	LTE/TM2 20MHz	LCH	VN	-30	3.50	0.00139	PASS
				-20	-1.81	-0.00072	PASS

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				-10	4.33	0.00172	PASS
				0	7.76	0.00309	PASS
				10	7.13	0.00284	PASS
				20	5.49	0.00219	PASS
				30	-4.04	-0.00161	PASS
				40	-8.22	-0.00328	PASS
				50	5.27	0.00210	PASS
		MCH	VN	-30	5.76	0.00222	PASS
				-20	-3.71	-0.00143	PASS
				-10	7.13	0.00275	PASS
				0	8.63	0.00332	PASS
				10	8.24	0.00318	PASS
				20	5.15	0.00199	PASS
				30	6.20	0.00239	PASS
				40	-8.91	-0.00343	PASS
				50	0.48	0.00018	PASS
		HCH	VN	-30	8.55	0.00319	PASS
				-20	7.43	0.00277	PASS
				-10	9.43	0.00352	PASS
				0	2.12	0.00079	PASS
				10	-0.36	-0.00014	PASS
				20	-6.30	-0.00235	PASS
				30	-9.08	-0.00339	PASS
				40	-7.35	-0.00274	PASS
				50	3.71	0.00138	PASS

The End

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