

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	22.72	25.72	33.00	PASS
Band41	5MHz	QPSK	39675	1RB#12	23.28	26.28	33.00	PASS
Band41	5MHz	QPSK	39675	1RB#24	22.90	25.90	33.00	PASS
Band41	5MHz	QPSK	39675	12RB#0	21.88	24.88	33.00	PASS
Band41	5MHz	QPSK	39675	12RB#6	22.02	25.02	33.00	PASS
Band41	5MHz	QPSK	39675	12RB#13	21.96	24.96	33.00	PASS
Band41	5MHz	QPSK	39675	25RB#0	21.94	24.94	33.00	PASS
Band41	5MHz	QPSK	40620	1RB#0	22.98	25.98	33.00	PASS
Band41	5MHz	QPSK	40620	1RB#12	23.35	26.35	33.00	PASS
Band41	5MHz	QPSK	40620	1RB#24	23.00	26.00	33.00	PASS
Band41	5MHz	QPSK	40620	12RB#0	22.11	25.11	33.00	PASS
Band41	5MHz	QPSK	40620	12RB#6	22.01	25.01	33.00	PASS
Band41	5MHz	QPSK	40620	12RB#13	21.94	24.94	33.00	PASS
Band41	5MHz	QPSK	40620	25RB#0	22.04	25.04	33.00	PASS
Band41	5MHz	QPSK	41565	1RB#0	22.79	25.79	33.00	PASS
Band41	5MHz	QPSK	41565	1RB#12	23.06	26.06	33.00	PASS
Band41	5MHz	QPSK	41565	1RB#24	22.75	25.75	33.00	PASS
Band41	5MHz	QPSK	41565	12RB#0	22.00	25.00	33.00	PASS
Band41	5MHz	QPSK	41565	12RB#6	21.95	24.95	33.00	PASS
Band41	5MHz	QPSK	41565	12RB#13	21.88	24.88	33.00	PASS
Band41	5MHz	QPSK	41565	25RB#0	21.95	24.95	33.00	PASS
Band41	5MHz	16QAM	39675	1RB#0	21.34	24.34	33.00	PASS
Band41	5MHz	16QAM	39675	1RB#12	21.50	24.50	33.00	PASS
Band41	5MHz	16QAM	39675	1RB#24	21.32	24.32	33.00	PASS
Band41	5MHz	16QAM	39675	12RB#0	20.65	23.65	33.00	PASS
Band41	5MHz	16QAM	39675	12RB#6	20.83	23.83	33.00	PASS
Band41	5MHz	16QAM	39675	12RB#13	20.66	23.66	33.00	PASS
Band41	5MHz	16QAM	39675	25RB#0	21.53	24.53	33.00	PASS
Band41	5MHz	16QAM	40620	1RB#0	21.34	24.34	33.00	PASS
Band41	5MHz	16QAM	40620	1RB#12	21.51	24.51	33.00	PASS
Band41	5MHz	16QAM	40620	1RB#24	21.38	24.38	33.00	PASS
Band41	5MHz	16QAM	40620	12RB#0	20.72	23.72	33.00	PASS



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Band41	5MHz	16QAM	40620	12RB#6	20.66	23.66	33.00	PASS
Band41	5MHz	16QAM	40620	12RB#13	20.65	23.65	33.00	PASS
Band41	5MHz	16QAM	40620	25RB#0	21.80	24.80	33.00	PASS
Band41	5MHz	16QAM	41565	1RB#0	21.27	24.27	33.00	PASS
Band41	5MHz	16QAM	41565	1RB#12	21.26	24.26	33.00	PASS
Band41	5MHz	16QAM	41565	1RB#24	21.15	24.15	33.00	PASS
Band41	5MHz	16QAM	41565	12RB#0	20.64	23.64	33.00	PASS
Band41	5MHz	16QAM	41565	12RB#6	20.72	23.72	33.00	PASS
Band41	5MHz	16QAM	41565	12RB#13	20.53	23.53	33.00	PASS
Band41	5MHz	16QAM	41565	25RB#0	21.73	24.73	33.00	PASS
Band41	10MHz	QPSK	39700	1RB#0	22.97	25.97	33.00	PASS
Band41	10MHz	QPSK	39700	1RB#24	23.47	26.47	33.00	PASS
Band41	10MHz	QPSK	39700	1RB#49	22.89	25.89	33.00	PASS
Band41	10MHz	QPSK	39700	25RB#0	21.97	24.97	33.00	PASS
Band41	10MHz	QPSK	39700	25RB#12	22.12	25.12	33.00	PASS
Band41	10MHz	QPSK	39700	25RB#25	21.89	24.89	33.00	PASS
Band41	10MHz	QPSK	39700	50RB#0	21.92	24.92	33.00	PASS
Band41	10MHz	QPSK	40620	1RB#0	23.01	26.01	33.00	PASS
Band41	10MHz	QPSK	40620	1RB#24	23.38	26.38	33.00	PASS
Band41	10MHz	QPSK	40620	1RB#49	22.73	25.73	33.00	PASS
Band41	10MHz	QPSK	40620	25RB#0	22.11	25.11	33.00	PASS
Band41	10MHz	QPSK	40620	25RB#12	22.14	25.14	33.00	PASS
Band41	10MHz	QPSK	40620	25RB#25	21.98	24.98	33.00	PASS
Band41	10MHz	QPSK	40620	50RB#0	22.05	25.05	33.00	PASS
Band41	10MHz	QPSK	41540	1RB#0	22.97	25.97	33.00	PASS
Band41	10MHz	QPSK	41540	1RB#24	23.30	26.30	33.00	PASS
Band41	10MHz	QPSK	41540	1RB#49	22.74	25.74	33.00	PASS
Band41	10MHz	QPSK	41540	25RB#0	22.11	25.11	33.00	PASS
Band41	10MHz	QPSK	41540	25RB#12	21.98	24.98	33.00	PASS
Band41	10MHz	QPSK	41540	25RB#25	21.84	24.84	33.00	PASS
Band41	10MHz	QPSK	41540	50RB#0	22.02	25.02	33.00	PASS
Band41	10MHz	16QAM	39700	1RB#0	21.21	24.21	33.00	PASS
Band41	10MHz	16QAM	39700	1RB#24	21.78	24.78	33.00	PASS
Band41	10MHz	16QAM	39700	1RB#49	21.38	24.38	33.00	PASS
Band41	10MHz	16QAM	39700	27RB#0	21.85	24.85	33.00	PASS
Band41	10MHz	16QAM	40620	1RB#0	21.50	24.50	33.00	PASS
Band41	10MHz	16QAM	40620	1RB#24	21.72	24.72	33.00	PASS
Band41	10MHz	16QAM	40620	1RB#49	21.33	24.33	33.00	PASS



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Band41	10MHz	16QAM	40620	27RB#0	22.08	25.08	33.00	PASS
Band41	10MHz	16QAM	41540	1RB#0	21.45	24.45	33.00	PASS
Band41	10MHz	16QAM	41540	1RB#24	21.50	24.50	33.00	PASS
Band41	10MHz	16QAM	41540	1RB#49	21.22	24.22	33.00	PASS
Band41	10MHz	16QAM	41540	27RB#0	21.99	24.99	33.00	PASS
Band41	15MHz	QPSK	39725	1RB#0	22.83	25.83	33.00	PASS
Band41	15MHz	QPSK	39725	1RB#38	23.14	26.14	33.00	PASS
Band41	15MHz	QPSK	39725	1RB#74	22.65	25.65	33.00	PASS
Band41	15MHz	QPSK	39725	36RB#0	21.97	24.97	33.00	PASS
Band41	15MHz	QPSK	39725	36RB#18	21.99	24.99	33.00	PASS
Band41	15MHz	QPSK	39725	36RB#39	21.89	24.89	33.00	PASS
Band41	15MHz	QPSK	39725	75RB#0	22.54	25.54	33.00	PASS
Band41	15MHz	QPSK	40620	1RB#0	22.96	25.96	33.00	PASS
Band41	15MHz	QPSK	40620	1RB#38	23.22	26.22	33.00	PASS
Band41	15MHz	QPSK	40620	1RB#74	22.72	25.72	33.00	PASS
Band41	15MHz	QPSK	40620	36RB#0	22.06	25.06	33.00	PASS
Band41	15MHz	QPSK	40620	36RB#18	22.17	25.17	33.00	PASS
Band41	15MHz	QPSK	40620	36RB#39	21.97	24.97	33.00	PASS
Band41	15MHz	QPSK	40620	75RB#0	22.41	25.41	33.00	PASS
Band41	15MHz	QPSK	41515	1RB#0	22.86	25.86	33.00	PASS
Band41	15MHz	QPSK	41515	1RB#38	23.16	26.16	33.00	PASS
Band41	15MHz	QPSK	41515	1RB#74	22.69	25.69	33.00	PASS
Band41	15MHz	QPSK	41515	36RB#0	22.14	25.14	33.00	PASS
Band41	15MHz	QPSK	41515	36RB#18	22.00	25.00	33.00	PASS
Band41	15MHz	QPSK	41515	36RB#39	21.87	24.87	33.00	PASS
Band41	15MHz	QPSK	41515	75RB#0	22.71	25.71	33.00	PASS
Band41	15MHz	16QAM	39725	1RB#0	21.54	24.54	33.00	PASS
Band41	15MHz	16QAM	39725	1RB#38	21.49	24.49	33.00	PASS
Band41	15MHz	16QAM	39725	1RB#74	21.31	24.31	33.00	PASS
Band41	15MHz	16QAM	39725	27RB#0	22.09	25.09	33.00	PASS
Band41	15MHz	16QAM	40620	1RB#0	21.58	24.58	33.00	PASS
Band41	15MHz	16QAM	40620	1RB#38	21.56	24.56	33.00	PASS
Band41	15MHz	16QAM	40620	1RB#74	21.21	24.21	33.00	PASS
Band41	15MHz	16QAM	40620	27RB#0	22.11	25.11	33.00	PASS
Band41	15MHz	16QAM	41515	1RB#0	21.28	24.28	33.00	PASS
Band41	15MHz	16QAM	41515	1RB#38	21.32	24.32	33.00	PASS
Band41	15MHz	16QAM	41515	1RB#74	21.05	24.05	33.00	PASS
Band41	15MHz	16QAM	41515	27RB#0	21.80	24.80	33.00	PASS



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Band41	20MHz	QPSK	39750	1RB#0	22.81	25.81	33.00	PASS
Band41	20MHz	QPSK	39750	1RB#49	23.39	26.39	33.00	PASS
Band41	20MHz	QPSK	39750	1RB#99	22.60	25.60	33.00	PASS
Band41	20MHz	QPSK	39750	50RB#0	21.96	24.96	33.00	PASS
Band41	20MHz	QPSK	39750	50RB#25	22.06	25.06	33.00	PASS
Band41	20MHz	QPSK	39750	50RB#50	21.86	24.86	33.00	PASS
Band41	20MHz	QPSK	39750	100RB#0	22.83	25.83	33.00	PASS
Band41	20MHz	QPSK	40620	1RB#0	22.80	25.80	33.00	PASS
Band41	20MHz	QPSK	40620	1RB#49	23.34	26.34	33.00	PASS
Band41	20MHz	QPSK	40620	1RB#99	22.56	25.56	33.00	PASS
Band41	20MHz	QPSK	40620	50RB#0	22.09	25.09	33.00	PASS
Band41	20MHz	QPSK	40620	50RB#25	22.16	25.16	33.00	PASS
Band41	20MHz	QPSK	40620	50RB#50	21.92	24.92	33.00	PASS
Band41	20MHz	QPSK	40620	100RB#0	22.40	25.40	33.00	PASS
Band41	20MHz	QPSK	41490	1RB#0	22.84	25.84	33.00	PASS
Band41	20MHz	QPSK	41490	1RB#49	23.40	26.40	33.00	PASS
Band41	20MHz	QPSK	41490	1RB#99	23.17	26.17	33.00	PASS
Band41	20MHz	QPSK	41490	50RB#0	21.99	24.99	33.00	PASS
Band41	20MHz	QPSK	41490	50RB#25	21.97	24.97	33.00	PASS
Band41	20MHz	QPSK	41490	50RB#50	21.83	24.83	33.00	PASS
Band41	20MHz	QPSK	41490	100RB#0	22.10	25.10	33.00	PASS
Band41	20MHz	16QAM	39750	1RB#0	22.03	25.03	33.00	PASS
Band41	20MHz	16QAM	39750	1RB#49	22.14	25.14	33.00	PASS
Band41	20MHz	16QAM	39750	1RB#99	22.02	25.02	33.00	PASS
Band41	20MHz	16QAM	39750	27RB#0	21.97	24.97	33.00	PASS
Band41	20MHz	16QAM	40620	1RB#0	21.96	24.96	33.00	PASS
Band41	20MHz	16QAM	40620	1RB#49	22.11	25.11	33.00	PASS
Band41	20MHz	16QAM	40620	1RB#99	21.84	24.84	33.00	PASS
Band41	20MHz	16QAM	40620	27RB#0	22.12	25.12	33.00	PASS
Band41	20MHz	16QAM	41490	1RB#0	21.88	24.88	33.00	PASS
Band41	20MHz	16QAM	41490	1RB#49	22.10	25.10	33.00	PASS
Band41	20MHz	16QAM	41490	1RB#99	22.16	25.16	33.00	PASS
Band41	20MHz	16QAM	41490	27RB#0	21.92	24.92	33.00	PASS

Remark:

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

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

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



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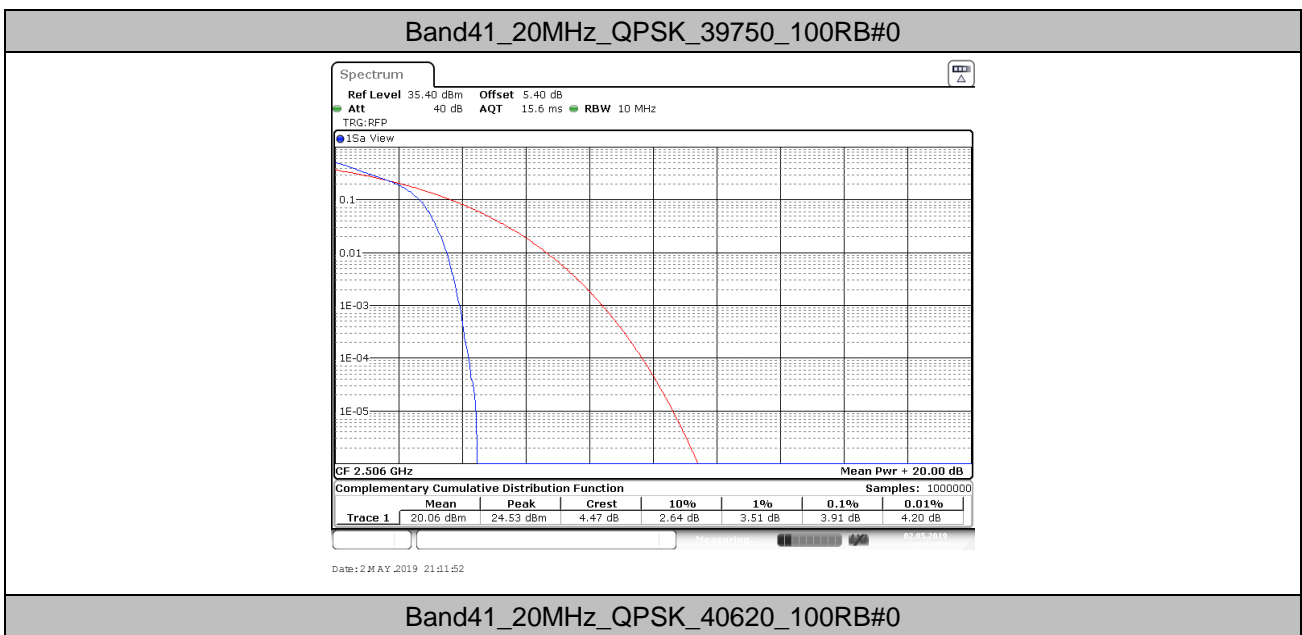
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2. Peak-to-Average Ratio(CCDF)

2.1. Test Result

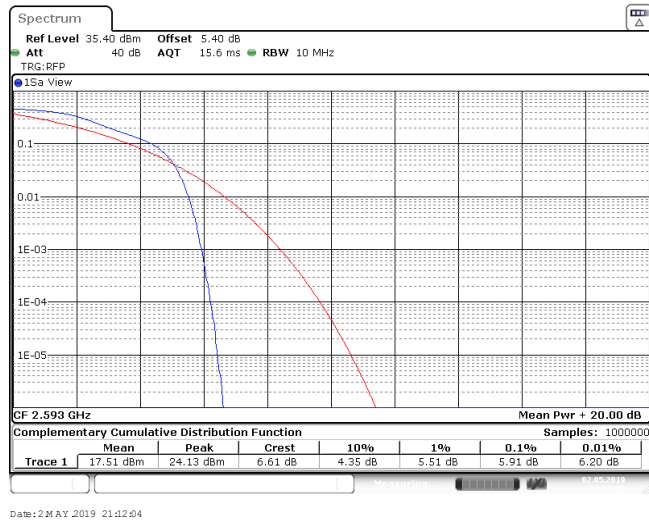
BAND	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band41	20MHz	QPSK	39750	100RB#0	3.91	13	PASS
Band41	20MHz	QPSK	40620	100RB#0	5.91	13	PASS
Band41	20MHz	QPSK	41490	100RB#0	5.80	13	PASS
Band41	20MHz	16QAM	39750	27RB#0	6.23	13	PASS
Band41	20MHz	16QAM	40620	27RB#0	7.71	13	PASS
Band41	20MHz	16QAM	41490	27RB#0	7.57	13	PASS

2.2. Test Plots



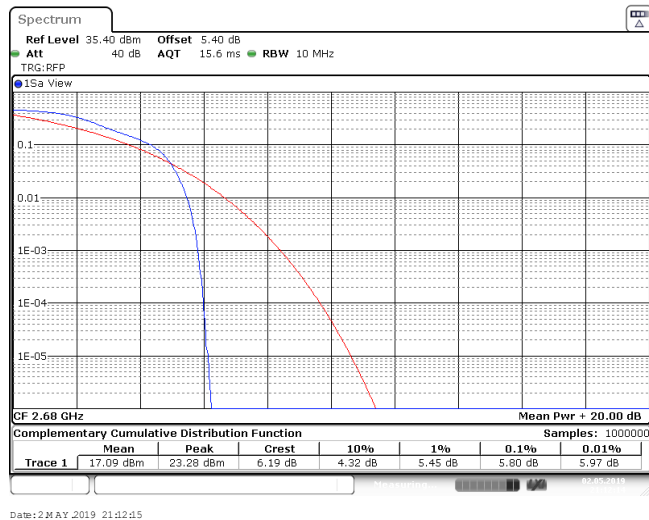
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Date: 2 MAY 2019 21:12:04

Band41_20MHz_QPSK_41490_100RB#0



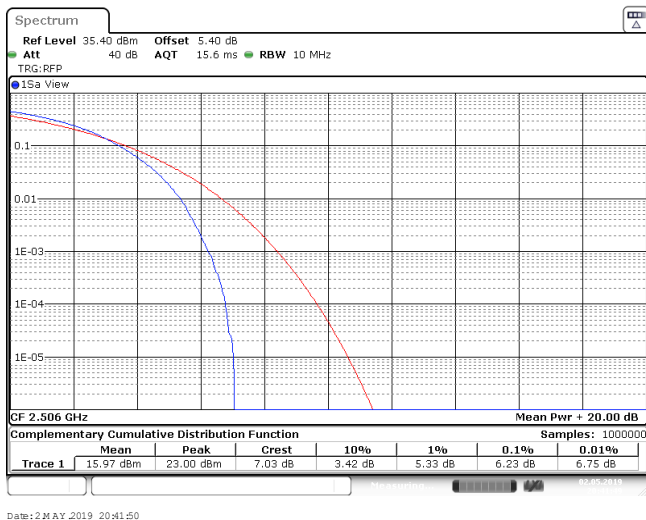
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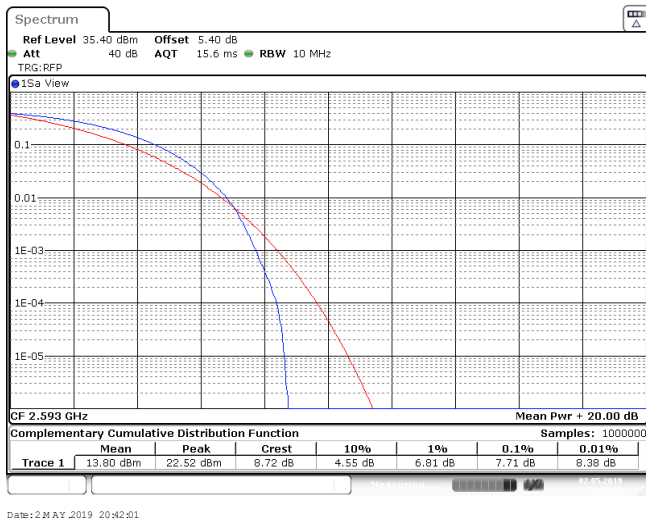
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Date: 2 MAY 2019 20:41:50

Band41_20MHz_16QAM_40620_27RB#0

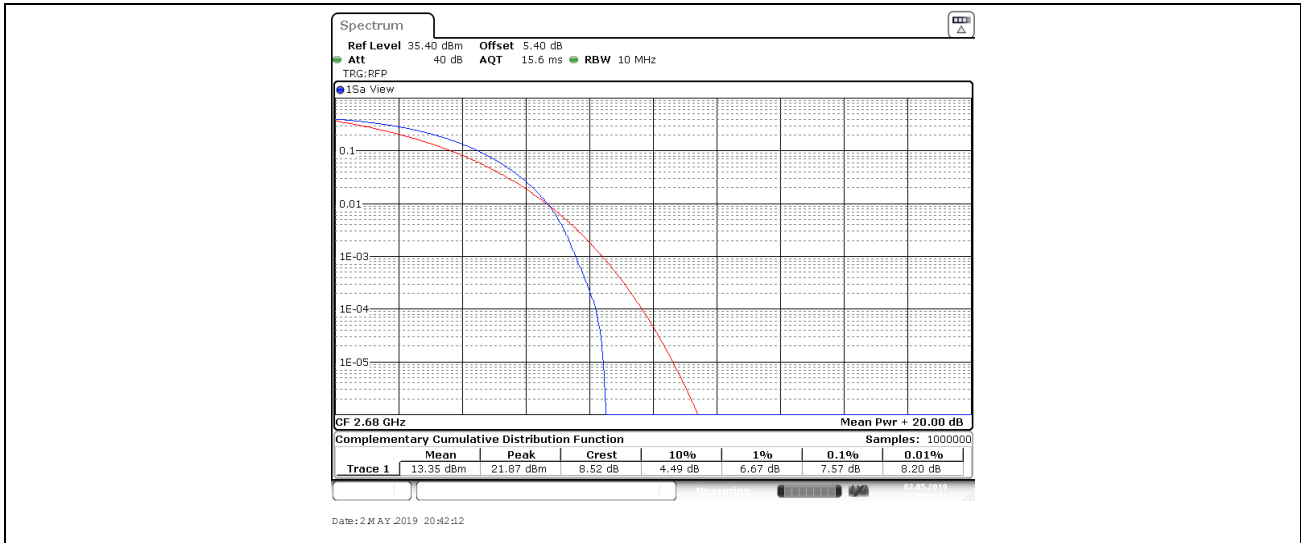


Date: 2 MAY 2019 20:42:01

Band41_20MHz_16QAM_41490_27RB#0



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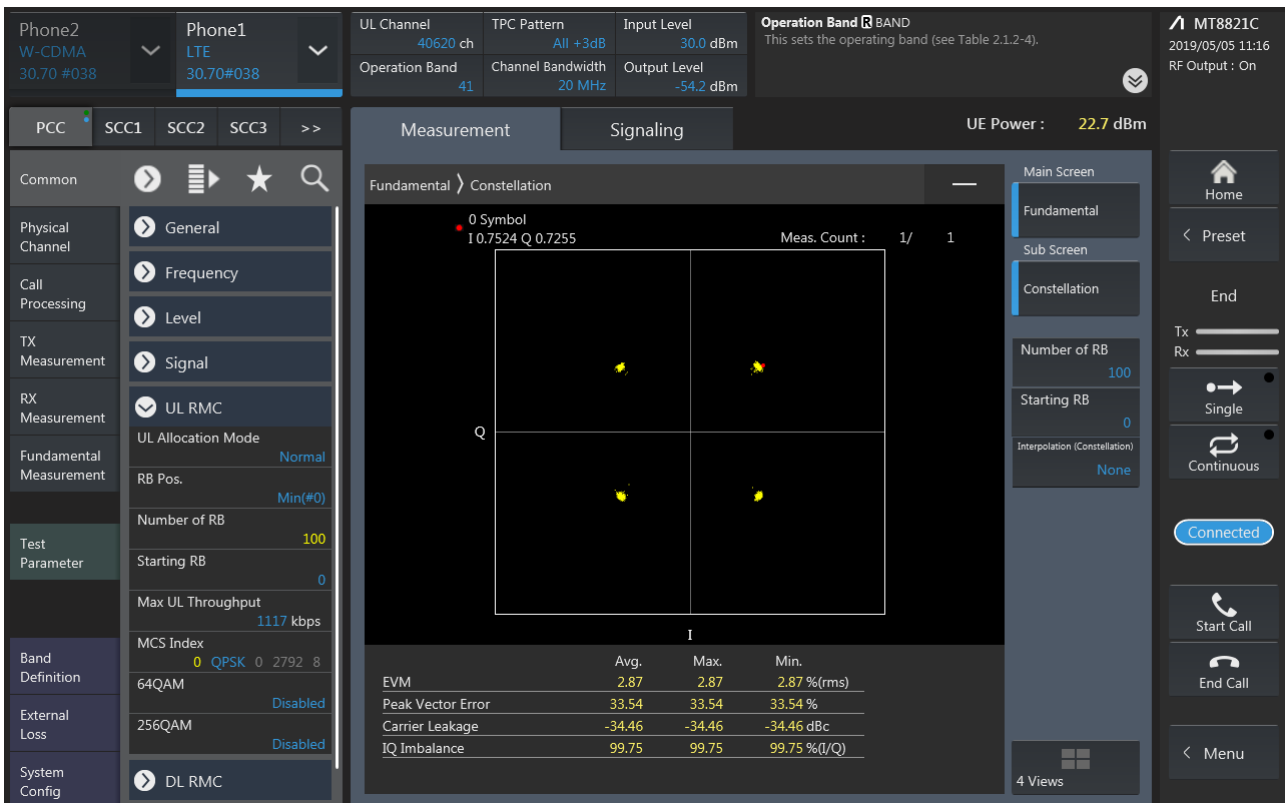


3. Modulation Characteristics

3.1. Test BAND = LTE Band 41

3.2. Test Mode = LTE /TM1 20MHz

3.2.1. Test Channel = MCH

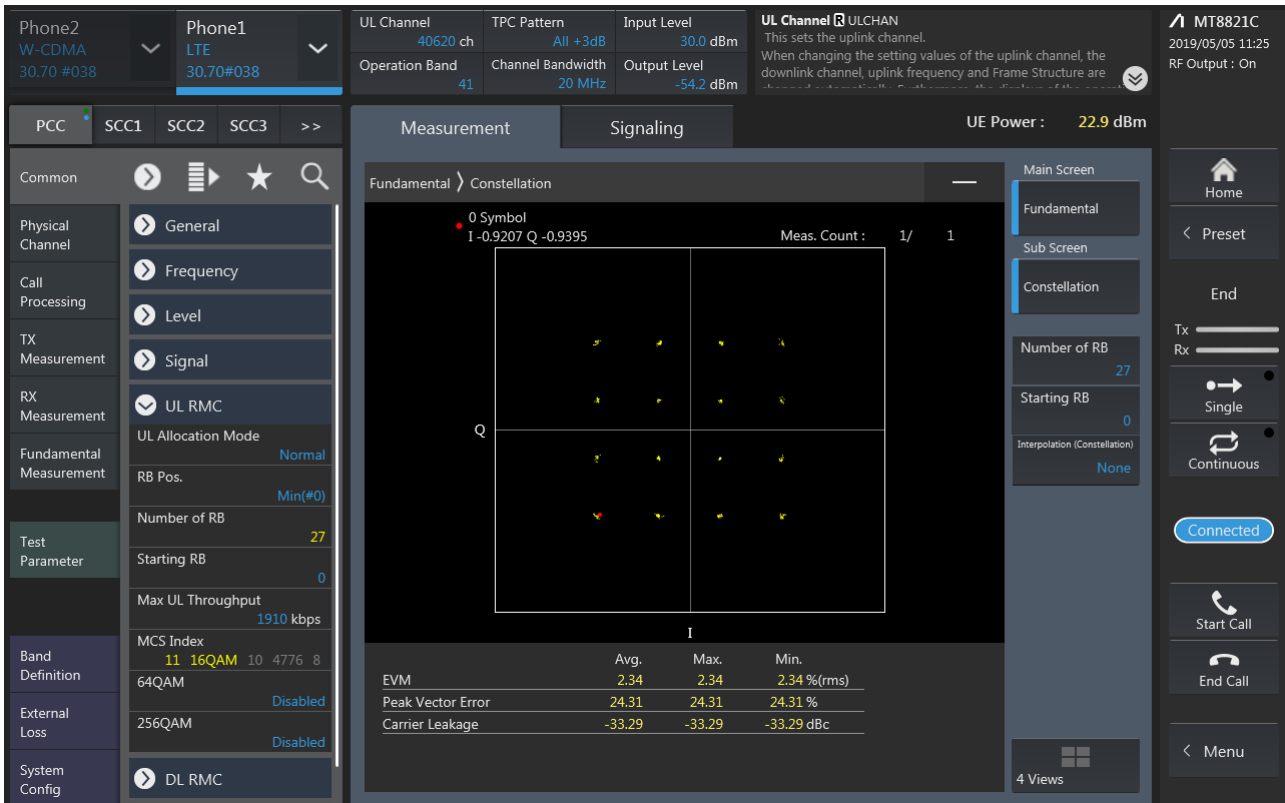


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3.3. Test Mode = LTE /TM2 20MHz

3.3.1. Test Channel = MCH



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4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

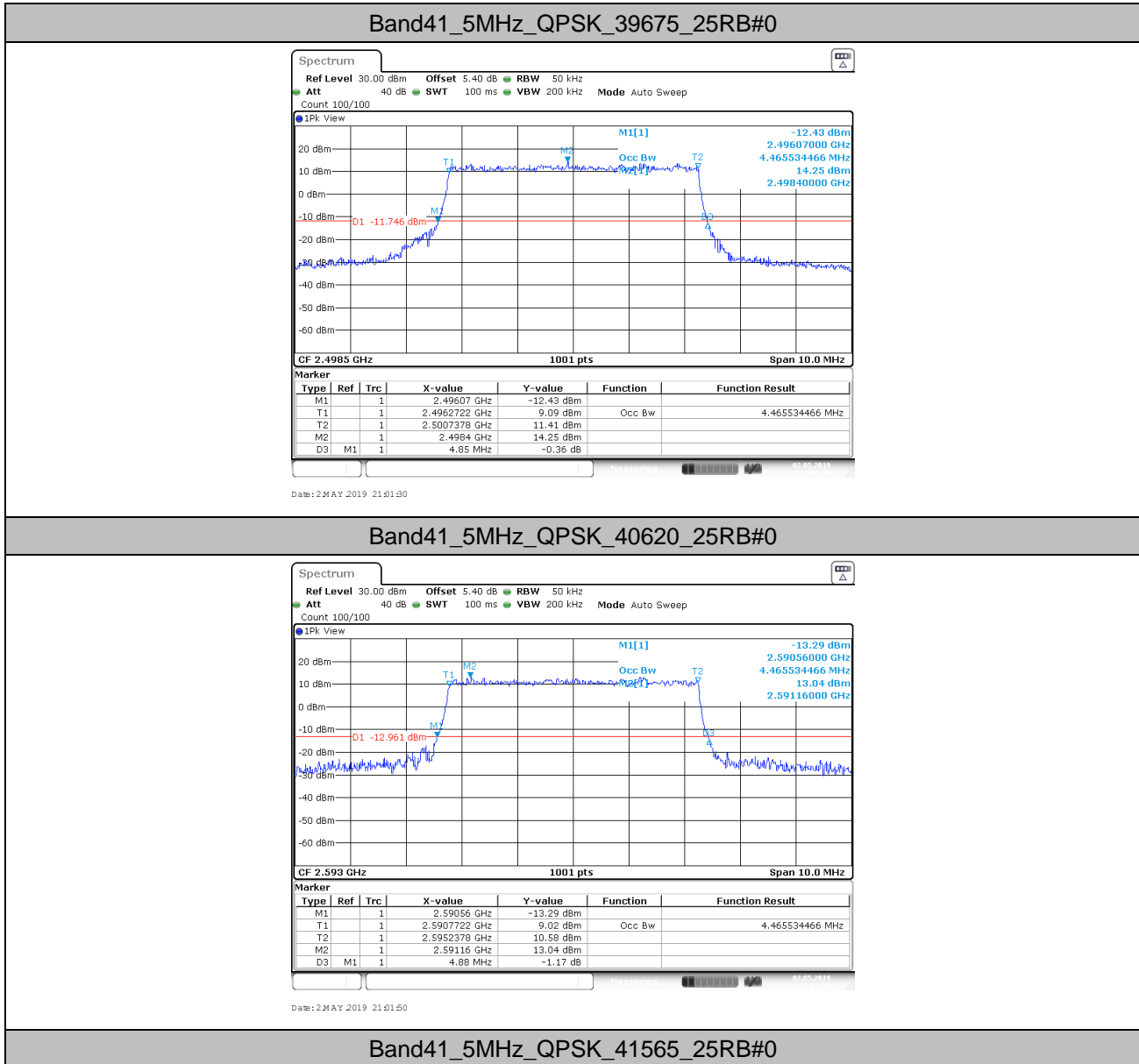
BAND	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band41	5MHz	QPSK	39675	25RB#0	4.466	4.850	PASS
Band41	5MHz	QPSK	40620	25RB#0	4.466	4.880	PASS
Band41	5MHz	QPSK	41565	25RB#0	4.466	4.870	PASS
Band41	5MHz	16QAM	39675	25RB#0	4.486	4.900	PASS
Band41	5MHz	16QAM	40620	25RB#0	4.476	4.920	PASS
Band41	5MHz	16QAM	41565	25RB#0	4.496	4.920	PASS
Band41	10MHz	QPSK	39700	50RB#0	8.931	9.680	PASS
Band41	10MHz	QPSK	40620	50RB#0	8.931	9.640	PASS
Band41	10MHz	QPSK	41540	50RB#0	8.931	9.720	PASS
Band41	10MHz	16QAM	39700	27RB#0	4.875	5.560	PASS
Band41	10MHz	16QAM	40620	27RB#0	4.875	5.540	PASS
Band41	10MHz	16QAM	41540	27RB#0	4.855	5.600	PASS
Band41	15MHz	QPSK	39725	75RB#0	13.457	14.760	PASS
Band41	15MHz	QPSK	40620	75RB#0	13.427	14.640	PASS
Band41	15MHz	QPSK	41515	75RB#0	13.457	14.730	PASS
Band41	15MHz	16QAM	39725	27RB#0	5.065	6.300	PASS
Band41	15MHz	16QAM	40620	27RB#0	5.065	6.150	PASS
Band41	15MHz	16QAM	41515	27RB#0	5.065	6.120	PASS
Band41	20MHz	QPSK	39750	100RB#0	17.862	19.480	PASS
Band41	20MHz	QPSK	40620	100RB#0	17.862	19.480	PASS
Band41	20MHz	QPSK	41490	100RB#0	17.902	19.400	PASS
Band41	20MHz	16QAM	39750	27RB#0	5.115	6.440	PASS
Band41	20MHz	16QAM	40620	27RB#0	5.115	6.440	PASS
Band41	20MHz	16QAM	41490	27RB#0	5.115	6.400	PASS



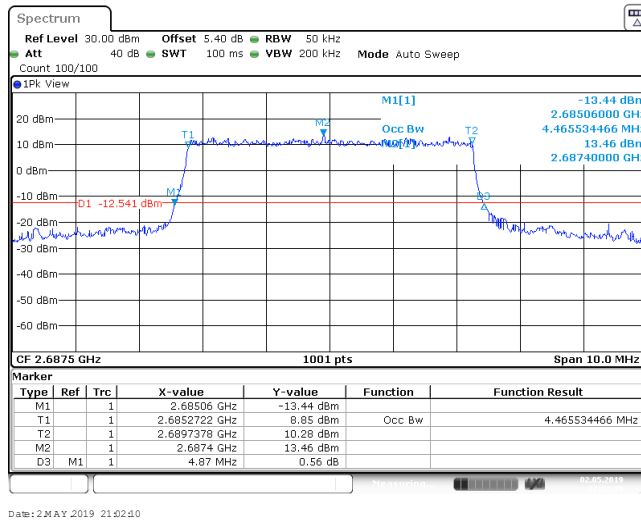
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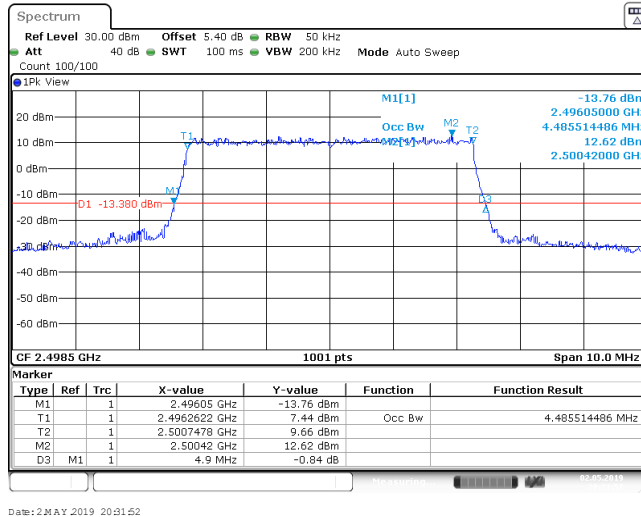
4.2. Test Plots



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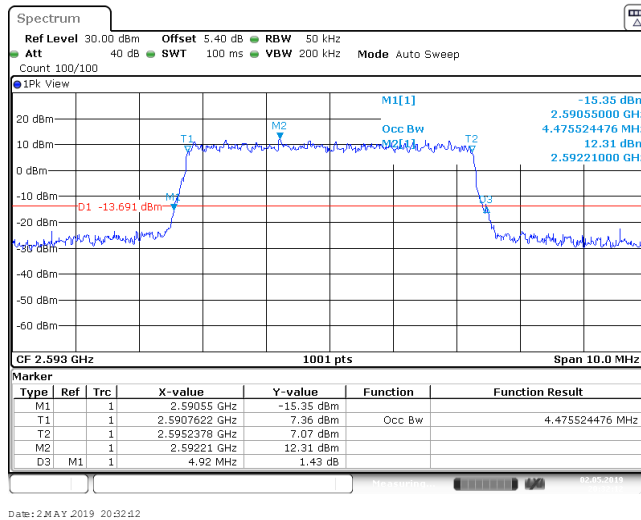
Band41_5MHz_16QAM_39675_25RB#



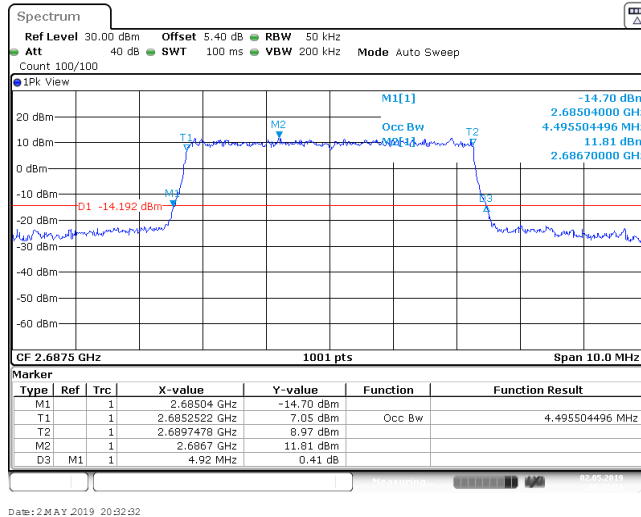
Band41_5MHz_16QAM_40620_25RB#



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Band41_5MHz_16QAM_41565_25RB#



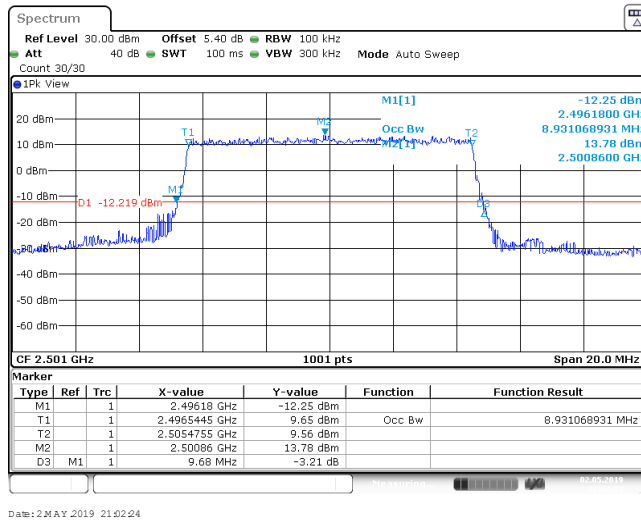
Band41_10MHz_QPSK_39700_50RB#



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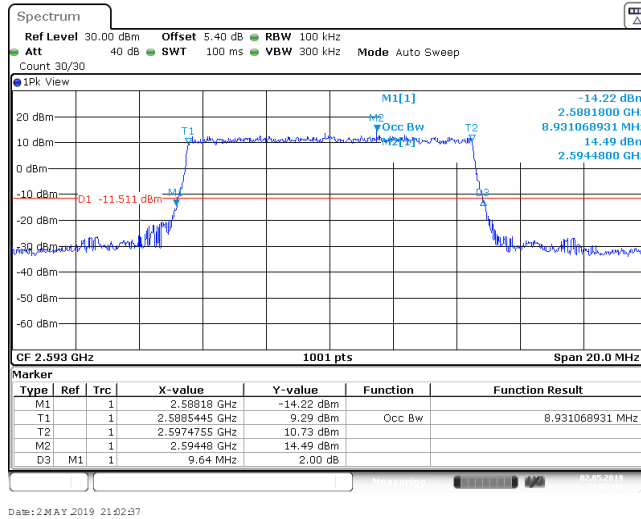
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Date: 2 MAY 2019 21:02:24

Band41_10MHz_QPSK_40620_50RB#0

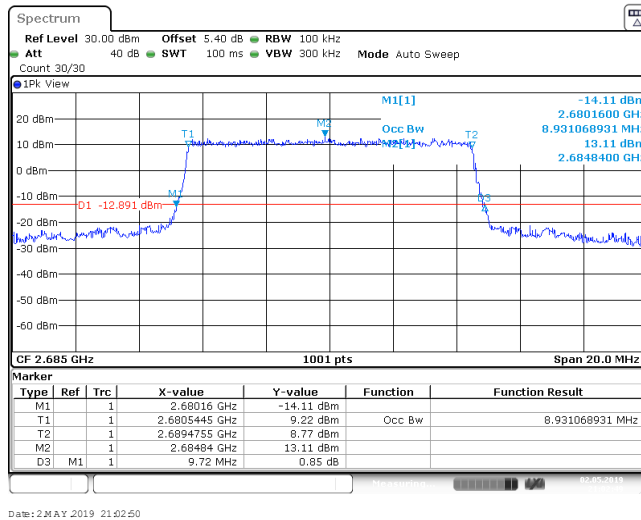


Date: 2 MAY 2019 21:02:27

Band41_10MHz_QPSK_41540_50RB#0

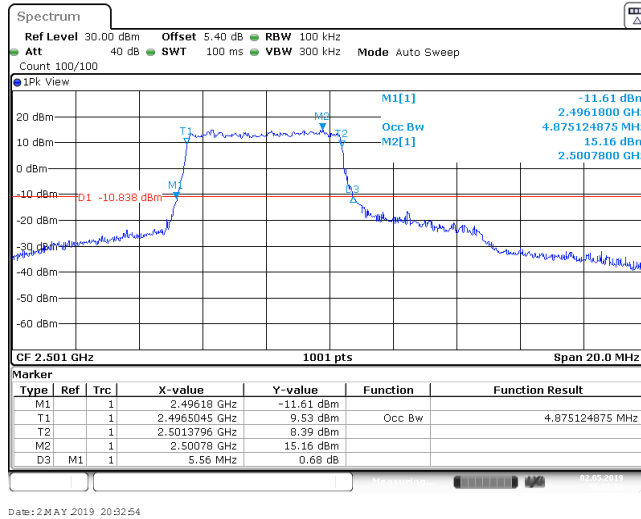


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Date: 2 MAY 2019 21:02:50

Band41_10MHz_16QAM_39700_27RB#0

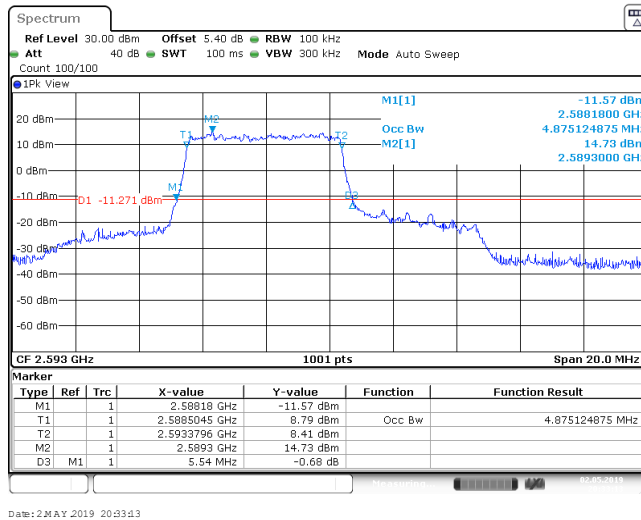


Date: 2 MAY 2019 20:32:54

Band41_10MHz_16QAM_40620_27RB#0

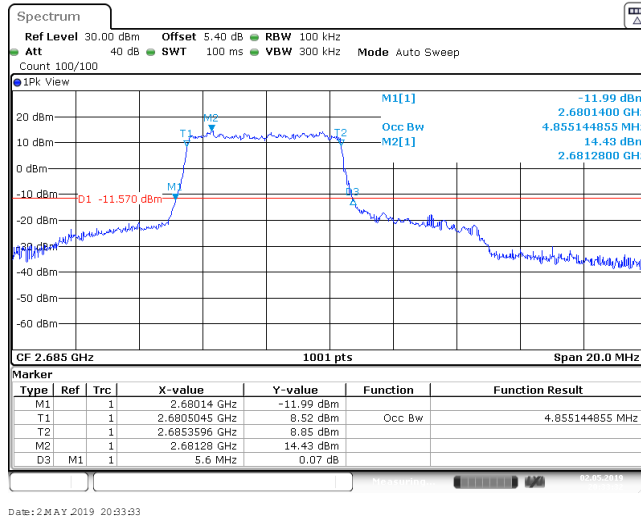


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Date: 2 MAY 2019 20:33:33

Band41_10MHz_16QAM_41540_27RB#0

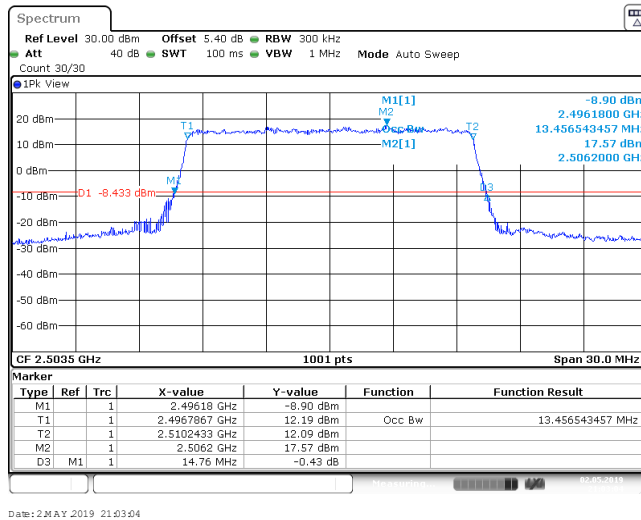


Date: 2 MAY 2019 20:33:33

Band41_15MHz_QPSK_39725_75RB#0

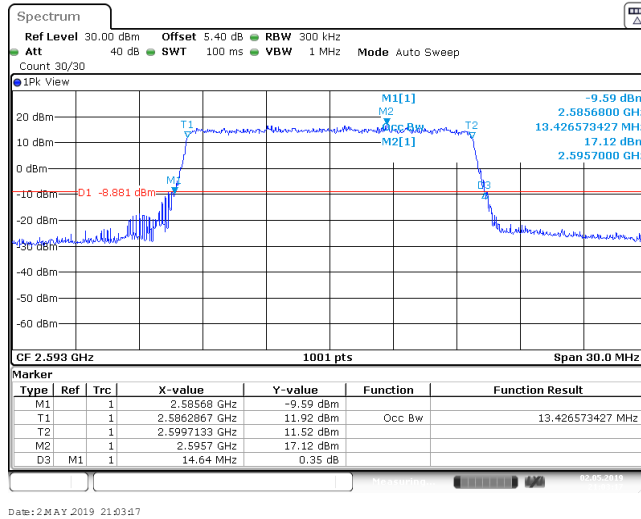


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Date: 2 MAY 2019 21:03:04

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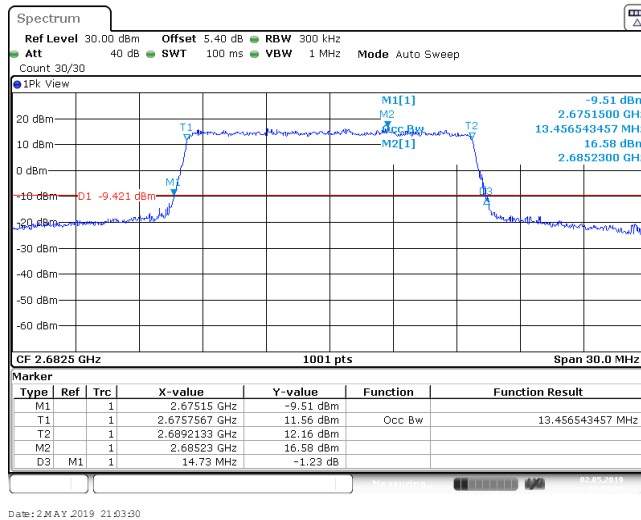


Date: 2 MAY 2019 21:03:07

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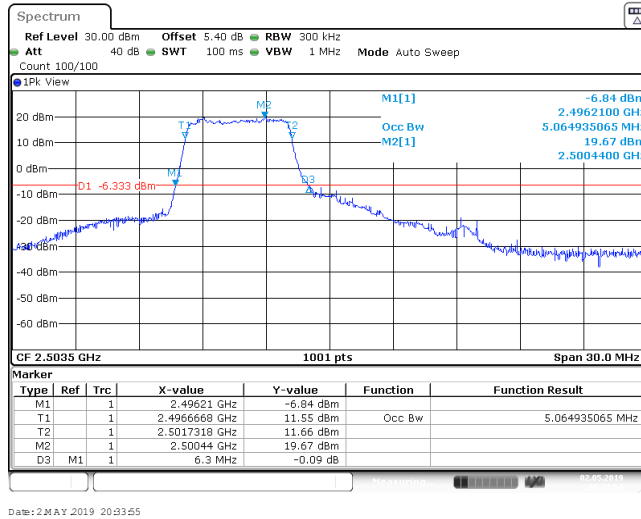


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Date: 2 MAY 2019 21:03:30

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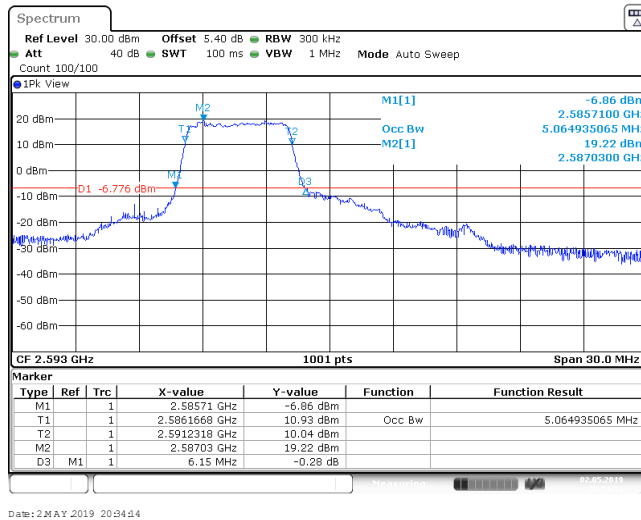


Date: 2 MAY 2019 20:33:55

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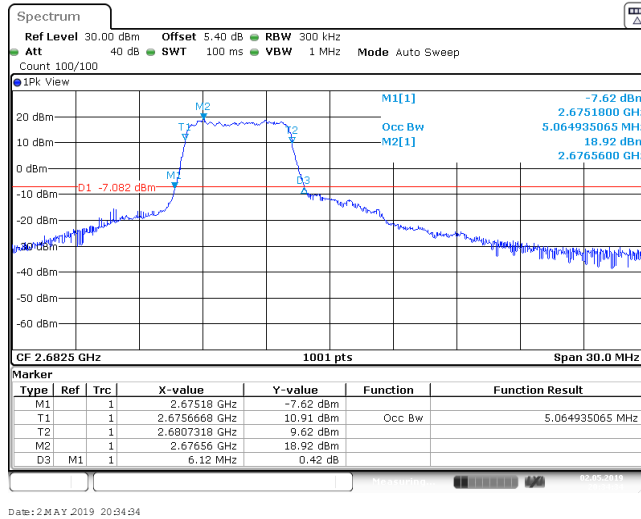


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Date: 2 MAY 2019 20:34:34

Band41_15MHz_16QAM_41515_27RB#0

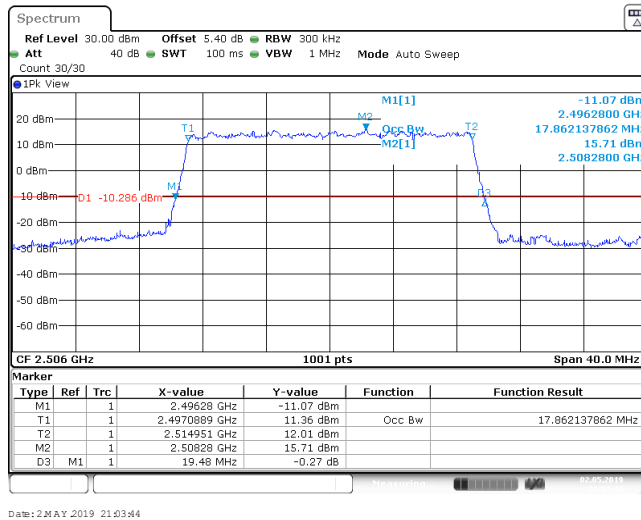


Date: 2 MAY 2019 20:34:34

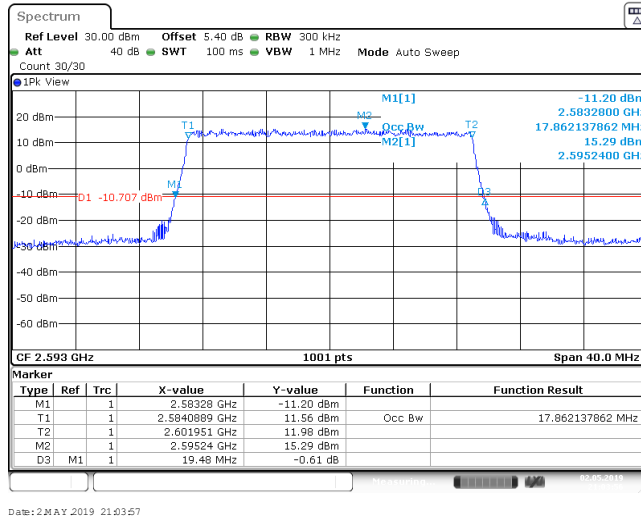
Band41_20MHz_QPSK_39750_100RB#0



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Band41_20MHz_QPSK_40620_100RB#0



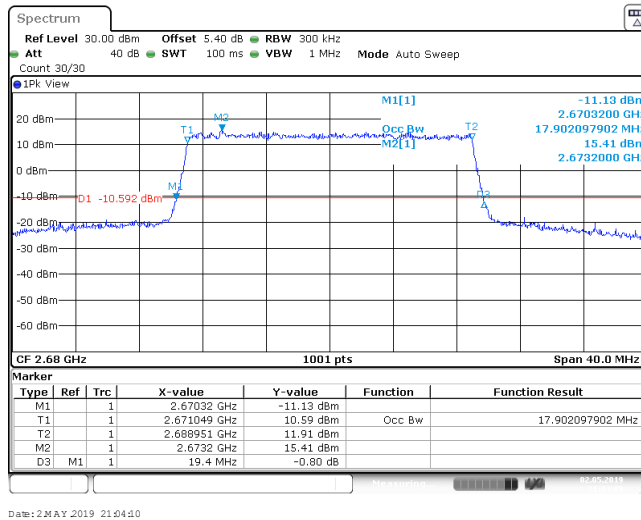
Band41_20MHz_QPSK_41490_100RB#0



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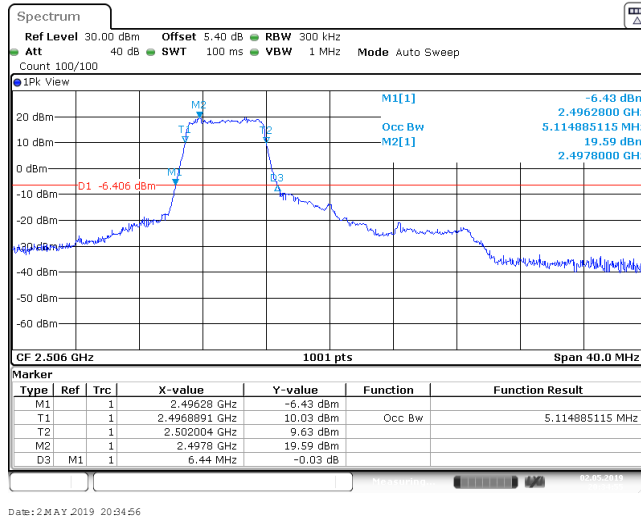
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Date: 2 MAY 2019 21:04:40

Band41_20MHz_16QAM_39750_27RB#0

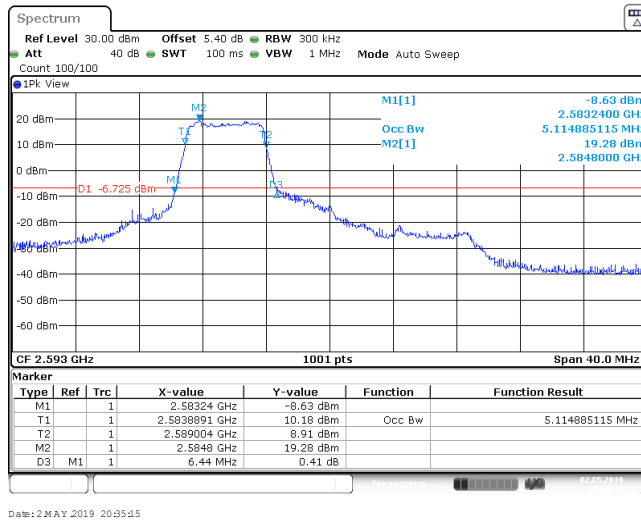


Date: 2 MAY 2019 20:34:56

Band41_20MHz_16QAM_40620_27RB#0

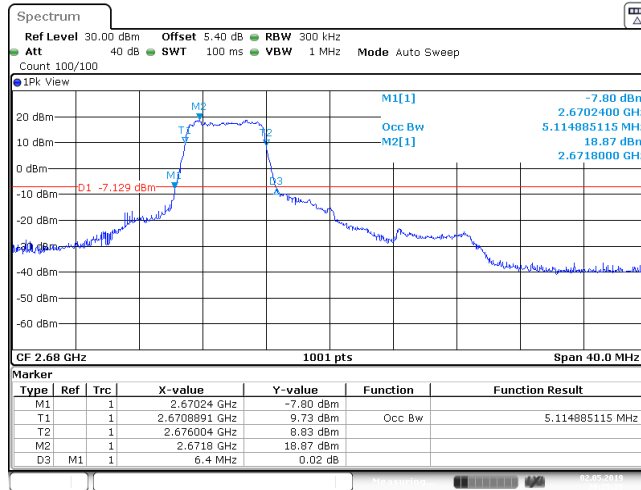


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Date: 2 MAY 2019 20:35:55

Band41_20MHz_16QAM_41490_27RB#0



Date: 2 MAY 2019 20:35:55

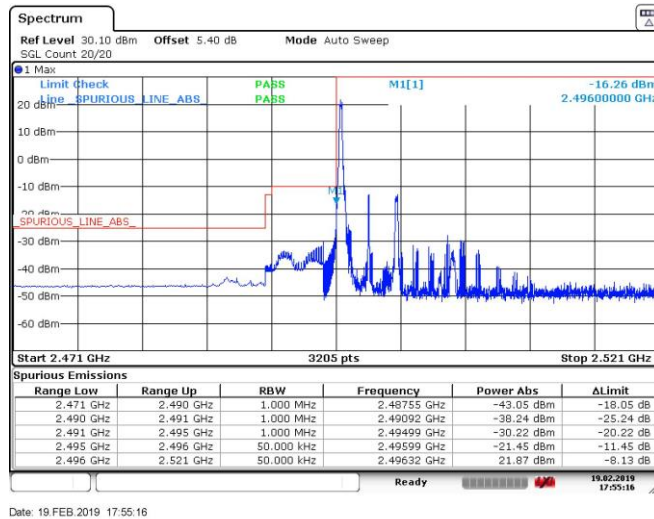


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5. Band Edge Compliance

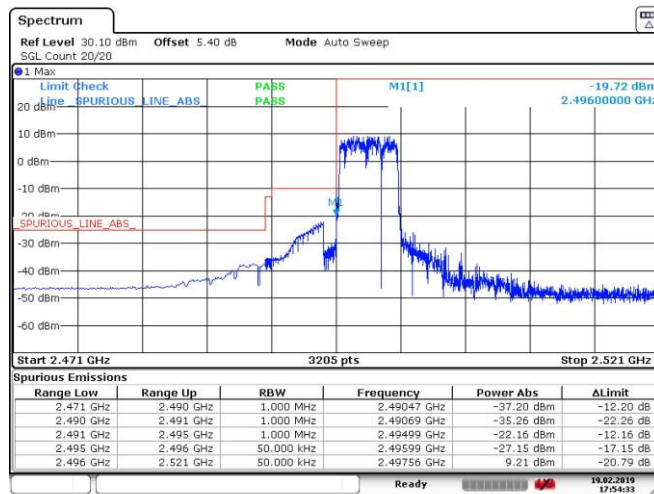
5.1. Test Plots

Band41_5MHz_QPSK_39675_1RB#0



Date: 19 FEB 2019 17:55:16

Band41_5MHz_QPSK_39675_25RB#0

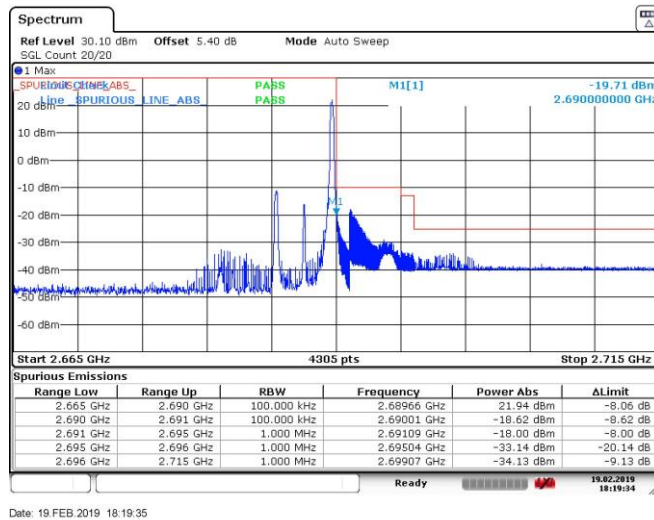


Date: 19 FEB 2019 17:54:32

Band41_5MHz_QPSK_41565_1RB#24

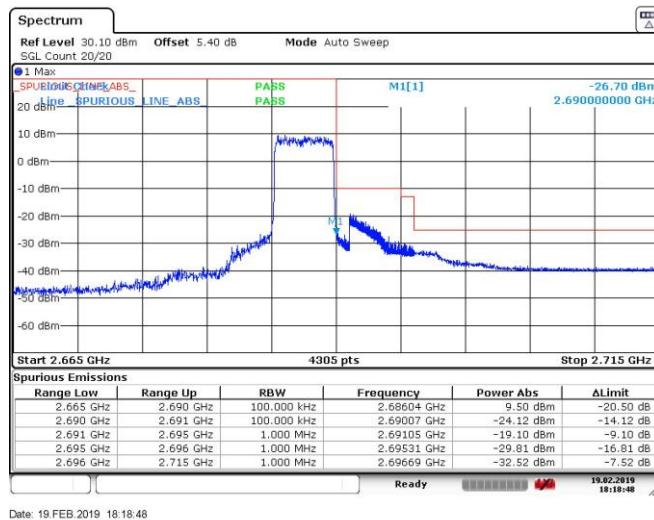
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Date: 19 FEB 2019 18:19:35

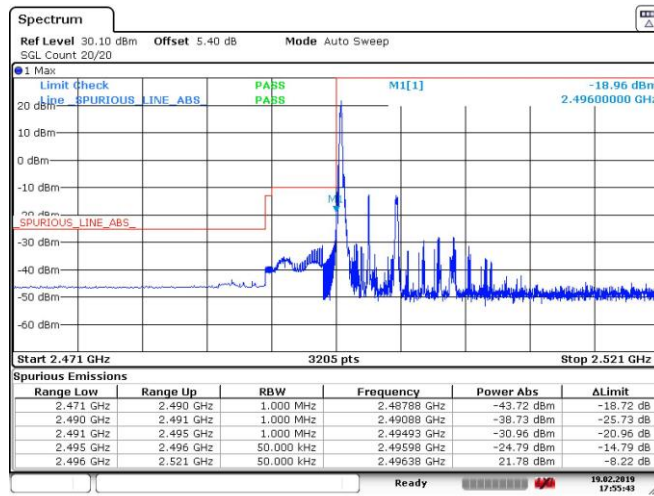
Band41_5MHz_QPSK_41565_25RB#0



Date: 19 FEB 2019 18:18:48

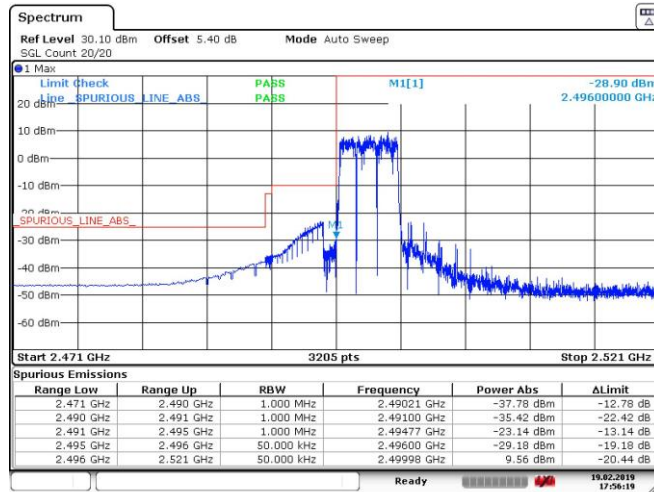
Band41_5MHz_16QAM_39675_1RB#0





Date: 19 FEB 2019 17:55:43

Band41_5MHz_16QAM_39675_25RB#0

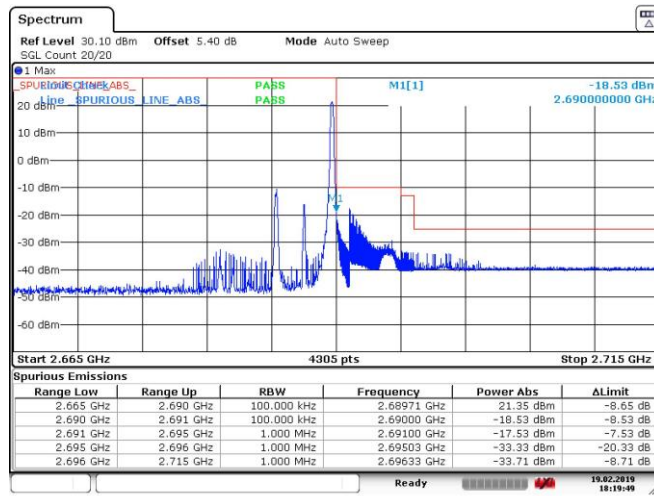


Date: 19 FEB 2019 17:56:19

Band41_5MHz_16QAM_41565_1RB#24

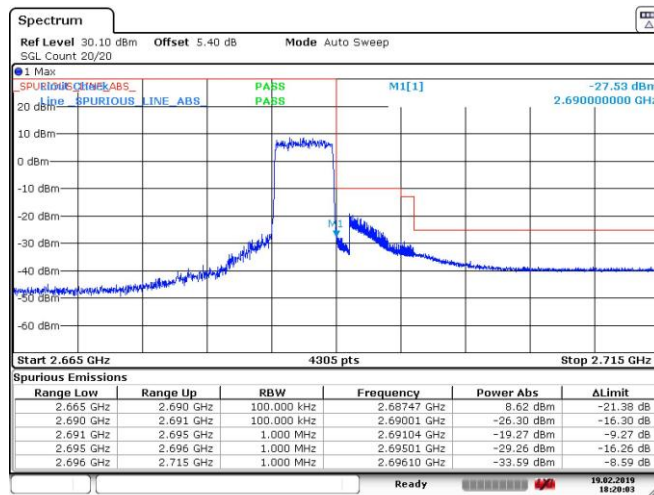


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Date: 19 FEB 2019 18:19:49

Band41_5MHz_16QAM_41565_25RB#0

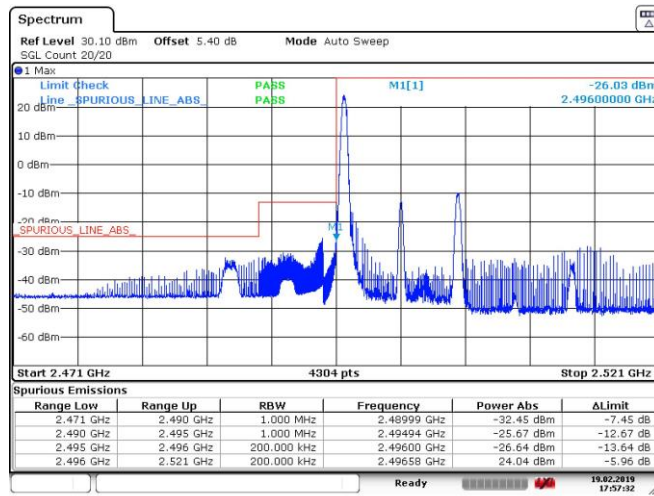


Date: 19 FEB 2019 18:20:03

Band41_10MHz_QPSK_39700_1RB#0

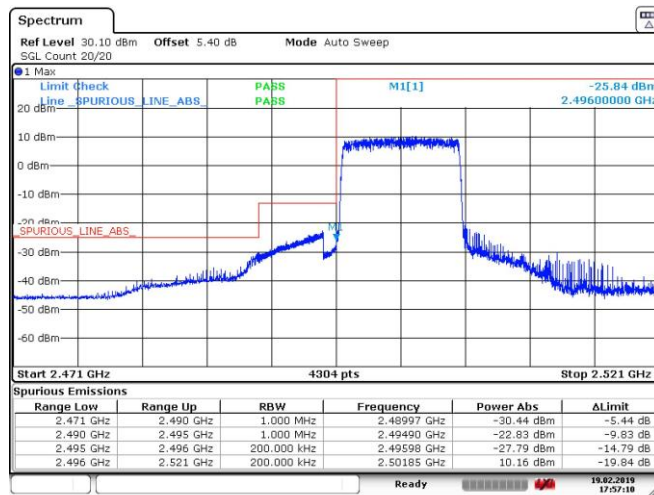


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Date: 19 FEB 2019 17:57:33

Band41_10MHz_QPSK_39700_50RB#0

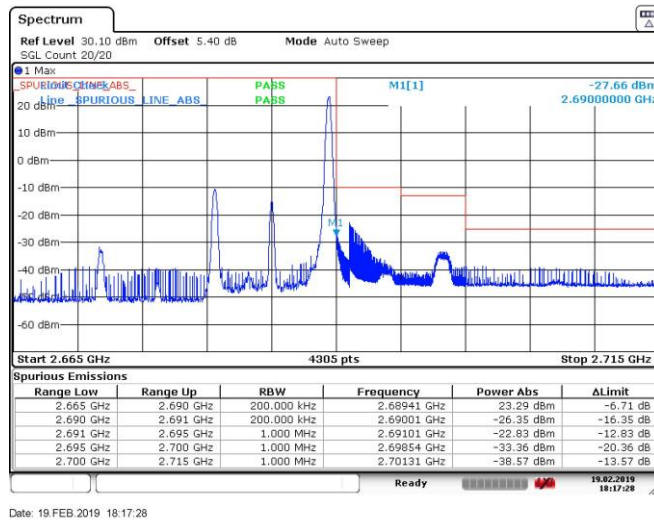


Date: 19 FEB 2019 17:57:10

Band41_10MHz_QPSK_41540_1RB#49

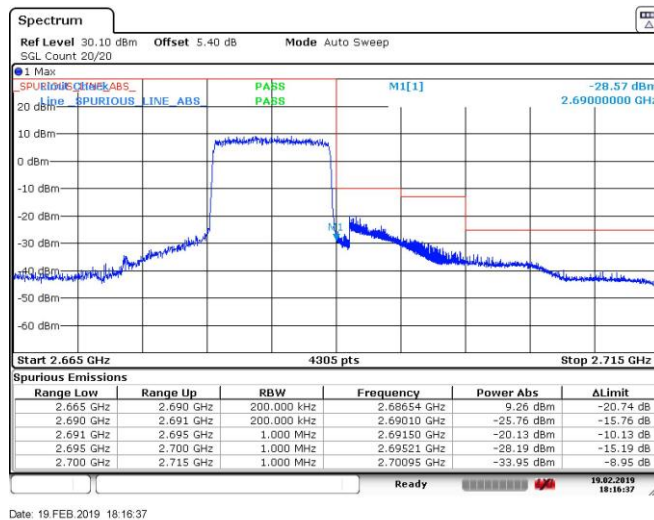


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Date: 19 FEB 2019 18:17:28

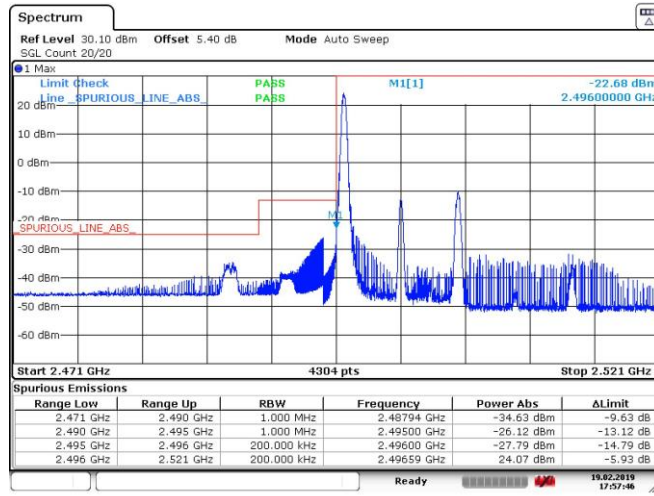
Band41_10MHz_QPSK_41540_50RB#0



Date: 19 FEB 2019 18:16:37

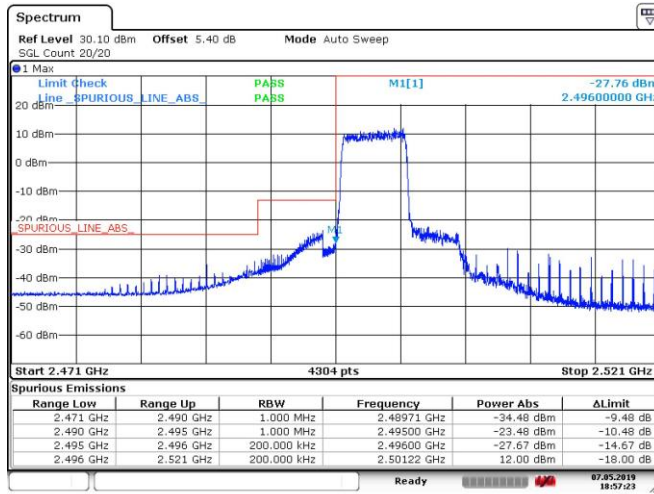
Band41_10MHz_16QAM_39700_1RB#0





Date: 19 FEB 2019 17:57:46

Band41_10MHz_16QAM_39700_27RB#0

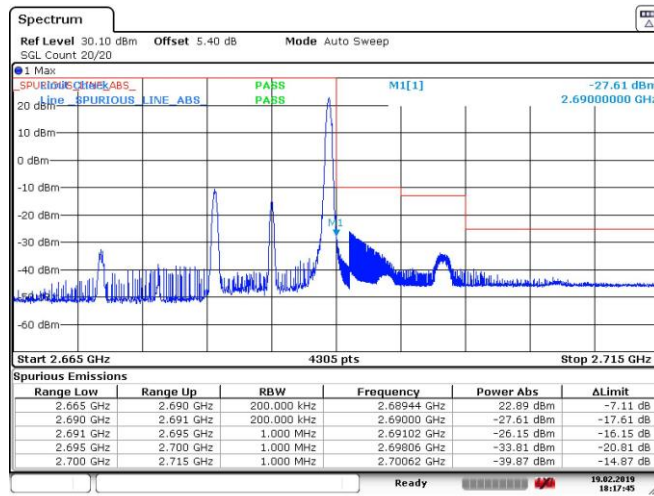


Date: 7 MAY 2019 18:57:24

Band41_10MHz_16QAM_41540_1RB#49

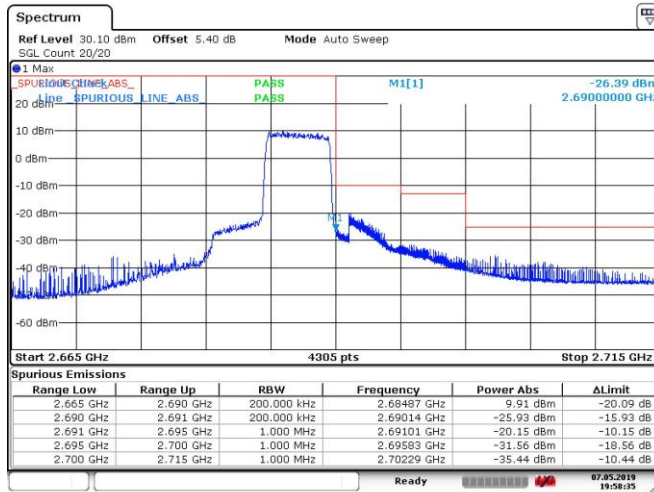


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Date: 19 FEB 2019 18:17:45

Band41_10MHz_16QAM_41540_27RB#23

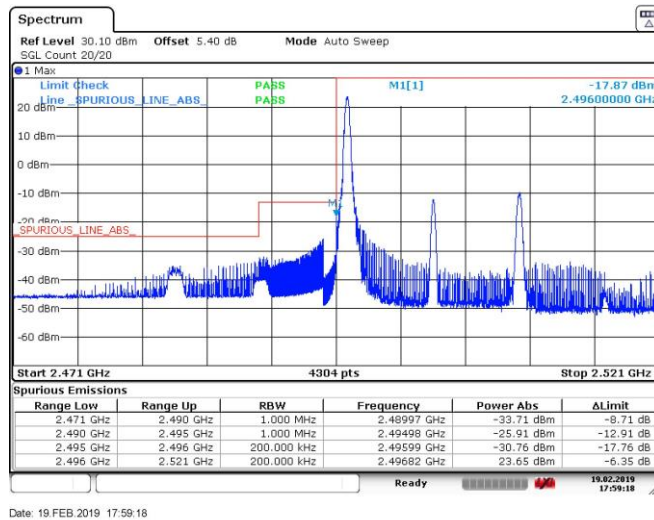


Date: 7 MAY 2019 19:58:36

Band41_15MHz_QPSK_39725_1RB#0

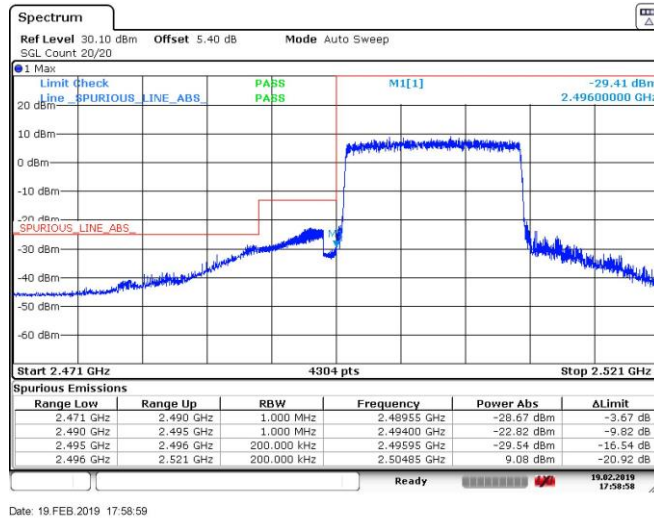


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Date: 19 FEB 2019 17:59:18

Band41_15MHz_QPSK_39725_75RB#0



Date: 19 FEB 2019 17:58:59

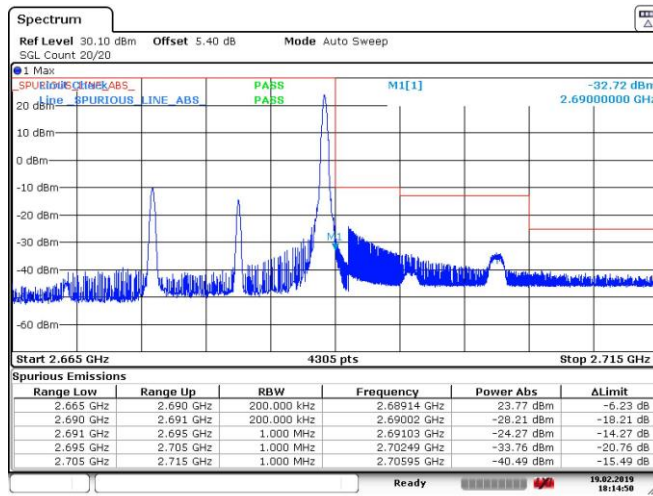
Band41_15MHz_QPSK_41515_1RB#74



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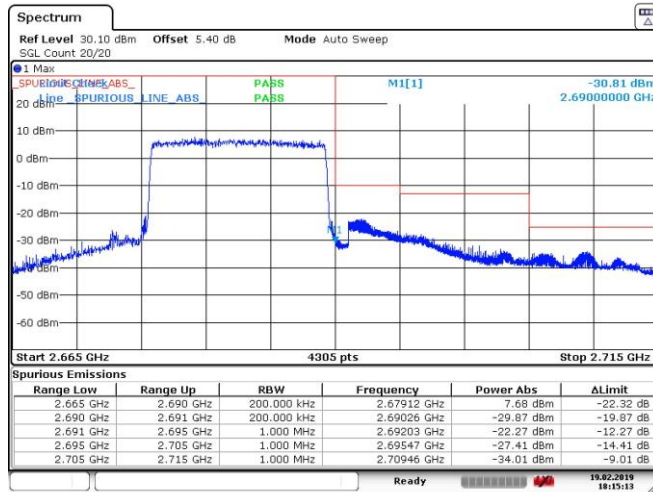
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Date: 19 FEB 2019 18:14:50

Band41_15MHz_QPSK_41515_75RB#0

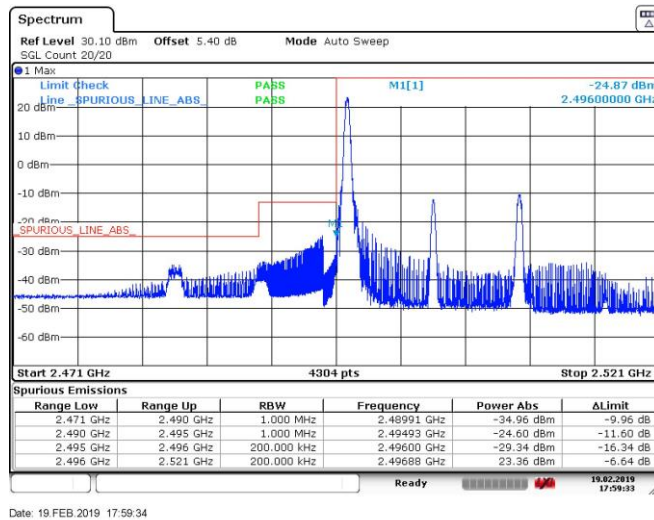


Date: 19 FEB 2019 18:15:13

Band41_15MHz_16QAM_39725_1RB#0

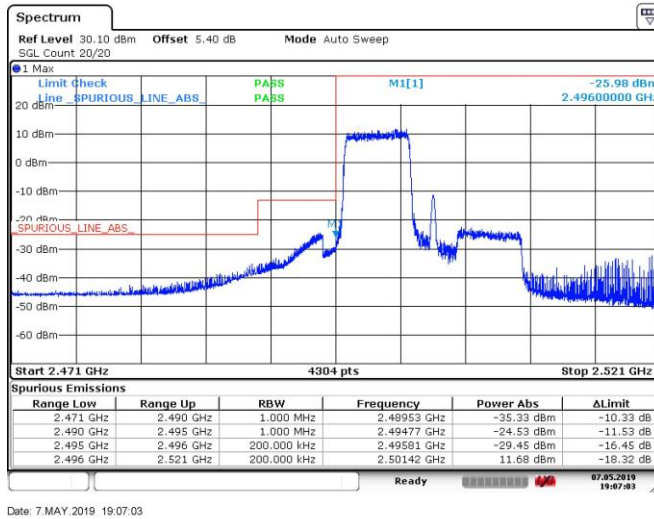


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Date: 19 FEB 2019 17:59:34

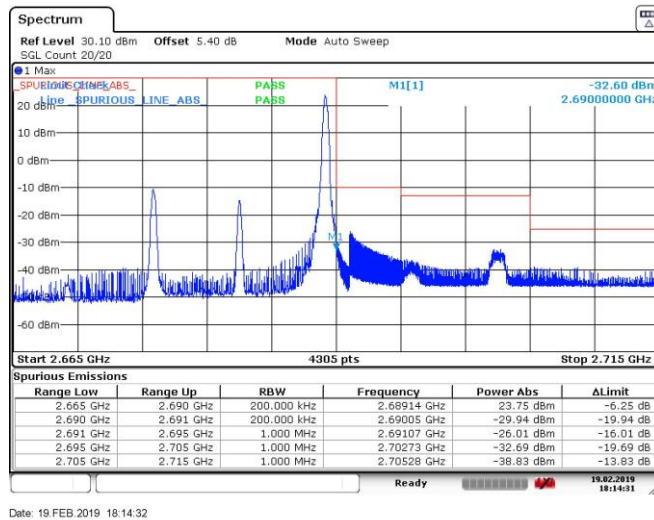
Band41_15MHz_16QAM_39725_27RB#0



Date: 7 MAY 2019 19:07:03

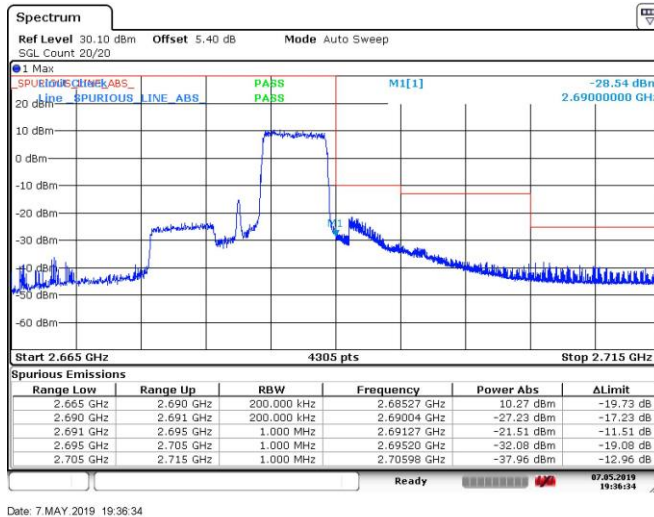
Band41_15MHz_16QAM_41515_1RB#74





Date: 19 FEB 2019 18:14:32

Band41_15MHz_16QAM_41515_27RB#48



Date: 7 MAY 2019 19:36:34

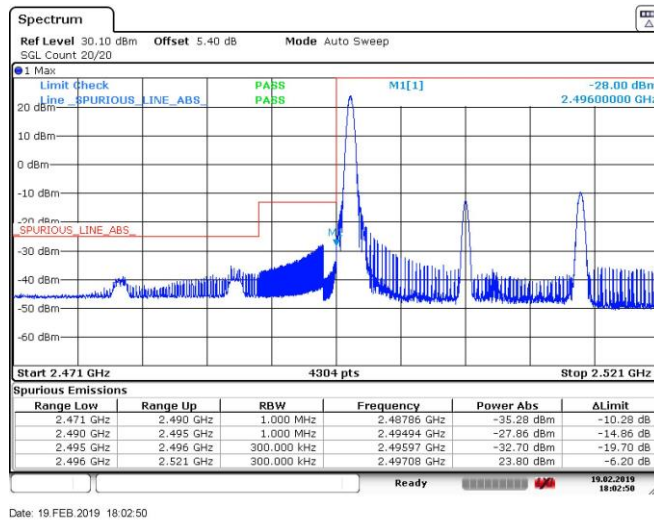
Band41_20MHz_QPSK_39750_1RB#0



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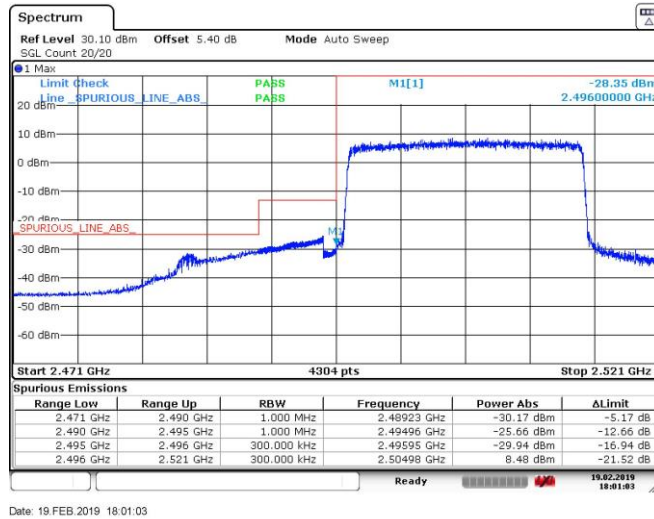
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Date: 19 FEB 2019 18:02:50

Band41_20MHz_QPSK_39750_100RB#0

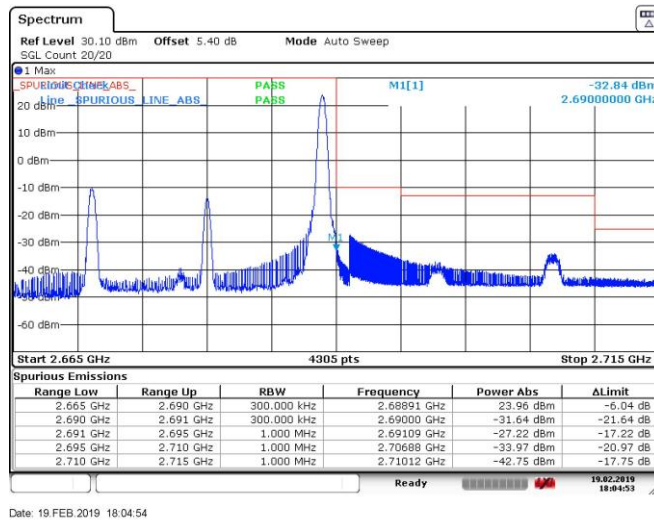


Date: 19 FEB 2019 18:01:03

Band41_20MHz_QPSK_41490_1RB#99

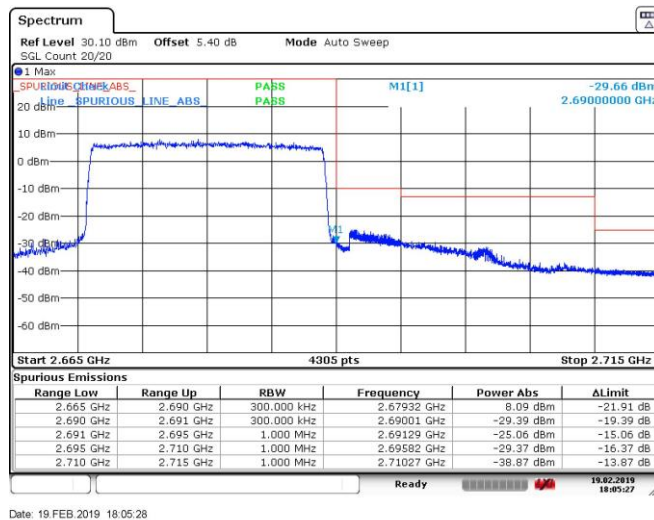


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Date: 19 FEB 2019 18:04:54

Band41_20MHz_QPSK_41490_100RB#0

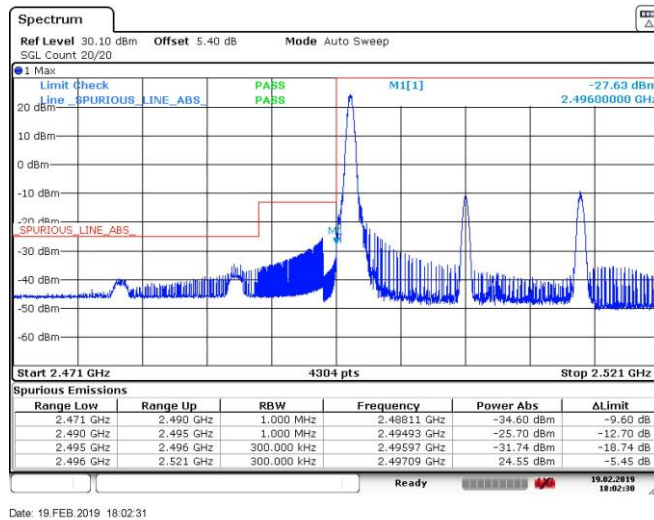


Date: 19 FEB 2019 18:05:28

Band41_20MHz_16QAM_39750_1RB#0

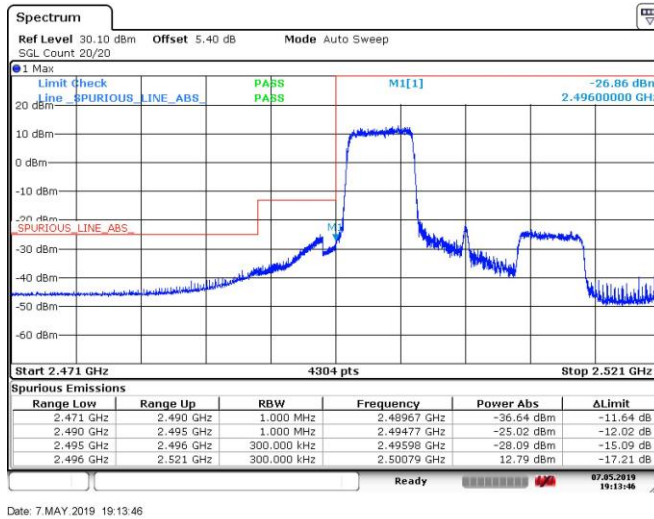


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Date: 19 FEB 2019 18:02:31

Band41_20MHz_16QAM_39750_27RB#0

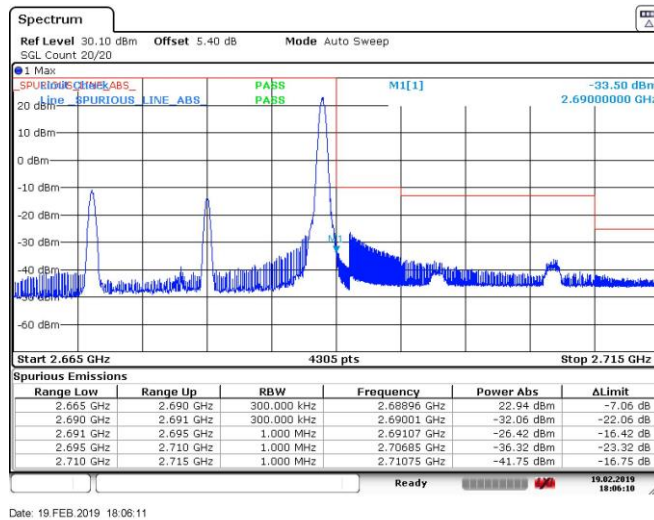


Date: 7 MAY 2019 19:13:46

Band41_20MHz_16QAM_41490_1RB#99

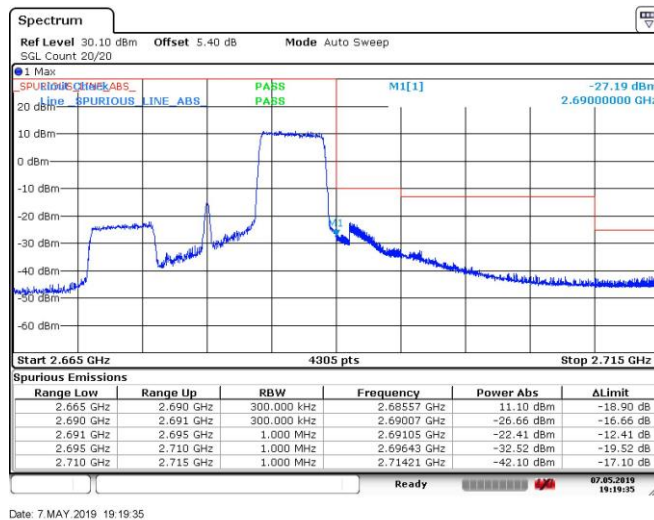


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Date: 19 FEB 2019 18:06:11

Band41_20MHz_16QAM_41490_27RB#73



Date: 7 MAY 2019 19:19:35



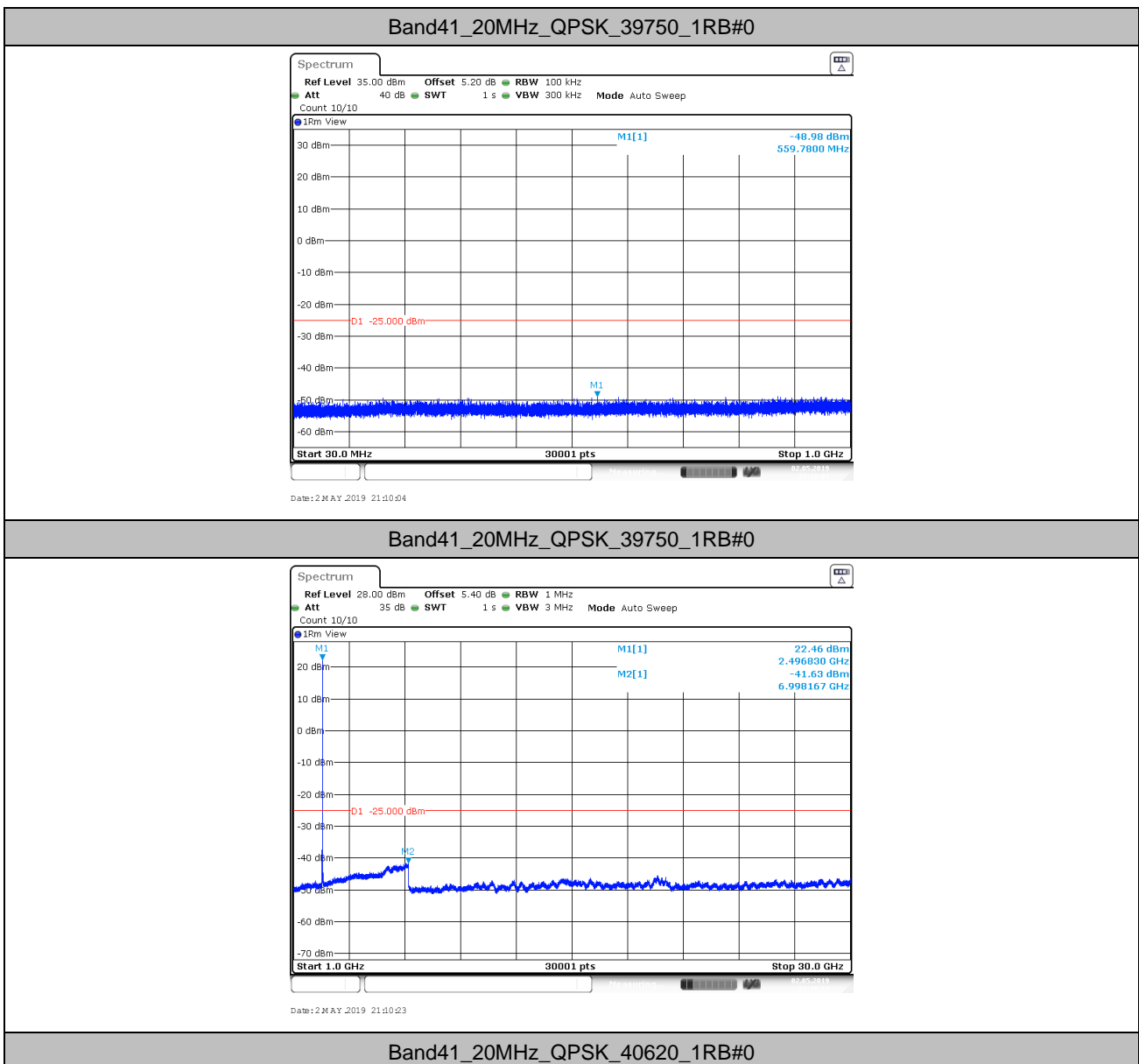
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6. Spurious Emission at Antenna Terminal

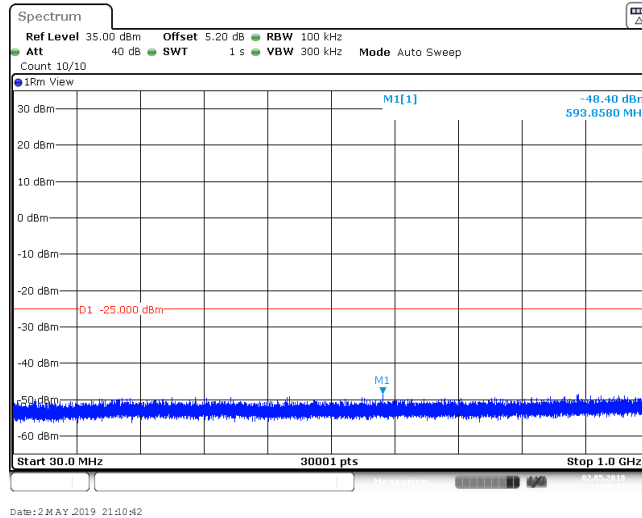
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points =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

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

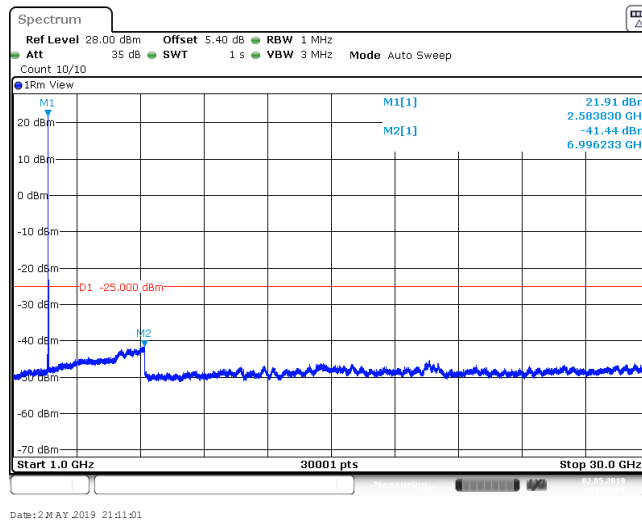
6.1. Test Plots



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Band41_20MHz_QPSK_40620_1RB#0

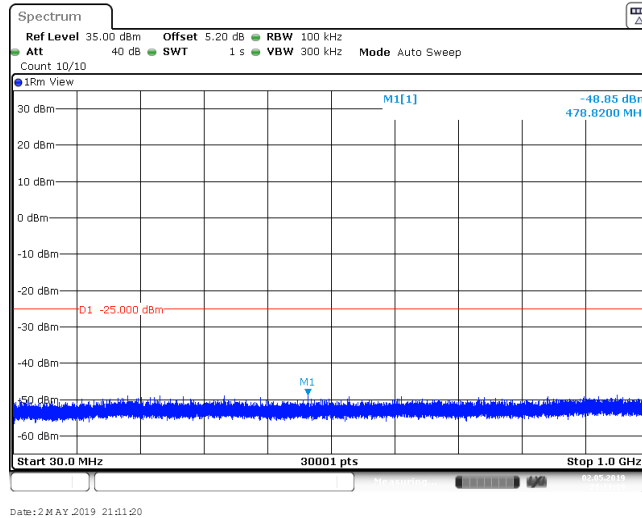


Band41_20MHz_QPSK_41490_1RB#0

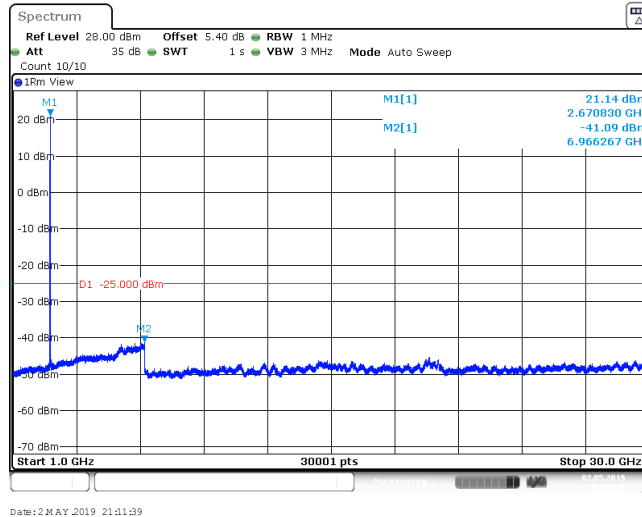


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Band41_20MHz_QPSK_41490_1RB#0

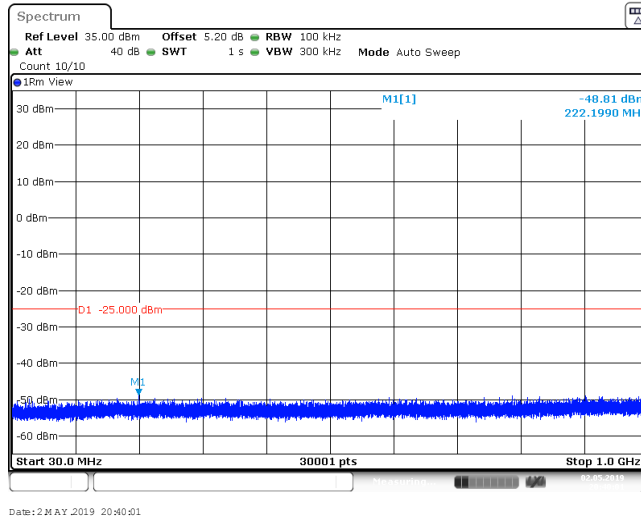


Band41_20MHz_16QAM_39750_1RB#0

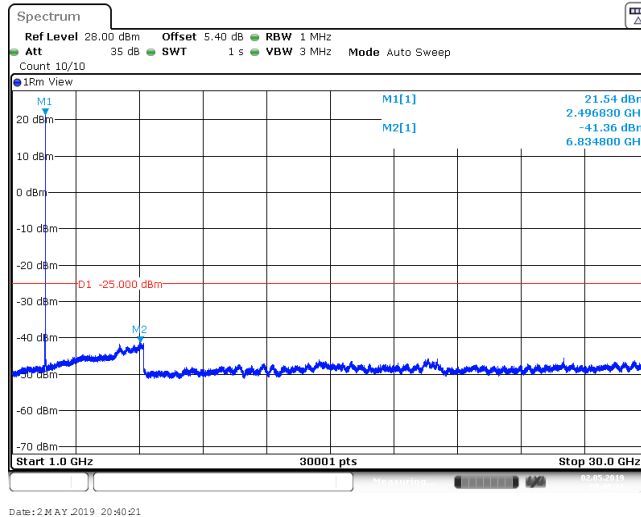


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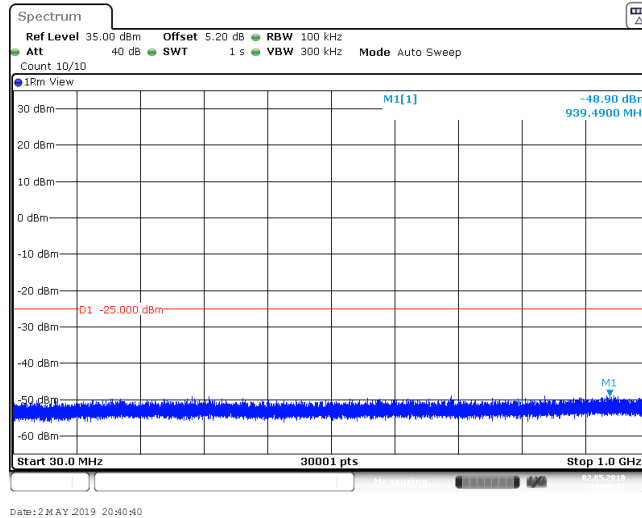
Band41_20MHz_16QAM_39750_1RB#0



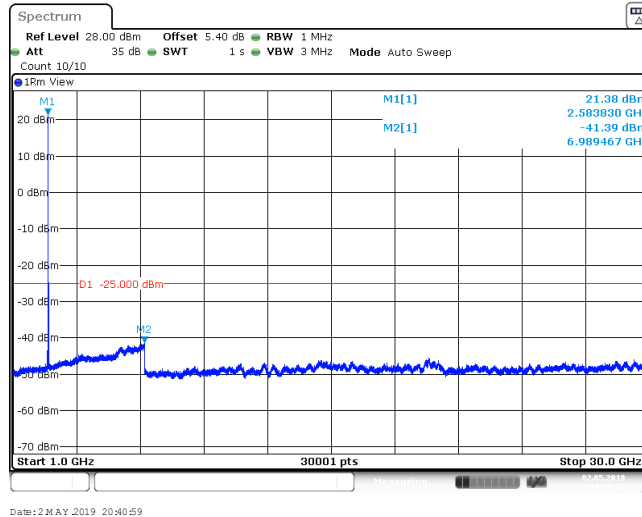
Band41_20MHz_16QAM_40620_1RB#0



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Band41_20MHz_16QAM_40620_1RB#0

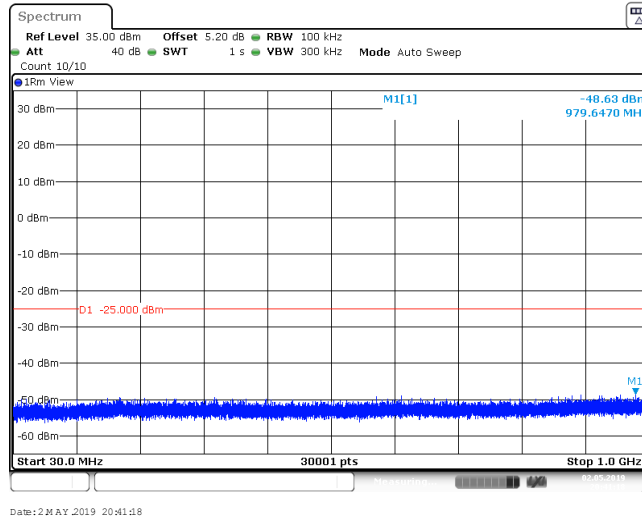


Band41_20MHz_16QAM_41490_1RB#0

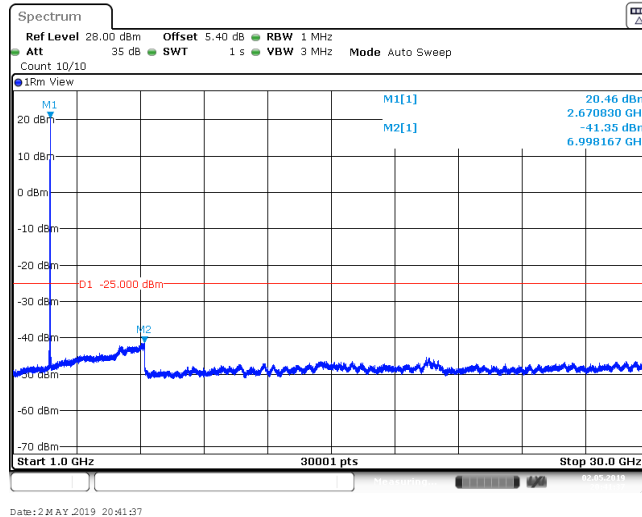


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Band41_20MHz_16QAM_41490_1RB#0



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7. Field Strength of Spurious Radiation

7.1. Test BAND = LTE Band 41

7.1.1. Test Mode = LTE/TM1 20MHz

7.1.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
52.991	-66.27	-25	41.27	Vertical
111.3802	-65.00	-25	40.00	Vertical
502.1464	-61.97	-25	36.97	Vertical
2697.254	-48.62	-25	23.62	Vertical
4607.0194	-43.30	-25	18.30	Vertical
17983.01	-35.35	-25	10.35	Vertical
46.3092	-63.42	-25	38.42	Horizontal
148.7881	-62.68	-25	37.68	Horizontal
698.9202	-65.84	-25	40.84	Horizontal
4596.0854	-37.23	-25	12.23	Horizontal
9330.6771	-47.83	-25	22.83	Horizontal
17992.872	-35.45	-25	10.45	Horizontal

7.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
70.5	-65.59	-25	40.59	Vertical
112.5477	-64.58	-25	39.58	Vertical
604.7656	-61.81	-25	36.81	Vertical
2699.3971	-48.80	-25	23.80	Vertical
5107.8032	-43.82	-25	18.82	Vertical
17990.755	-34.86	-25	9.86	Vertical
44.0961	-63.89	-25	38.89	Horizontal
150.8951	-64.24	-25	39.24	Horizontal
522.772	-65.89	-25	40.89	Horizontal
5100.3361	-35.45	-25	10.45	Horizontal
9313.4435	-47.84	-25	22.84	Horizontal
16397.883	-35.48	-25	10.48	Horizontal



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7.1.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
69.9179	-66.06	-25	41.06	Vertical
106.7274	-65.04	-25	40.04	Vertical
587.1107	-62.41	-25	37.41	Vertical
2698.9971	-47.99	-25	22.99	Vertical
4764.2917	-44.44	-25	19.44	Vertical
17884.251	-36.34	-25	11.34	Vertical
44.4842	-63.67	-25	38.67	Horizontal
149.1005	-63.68	-25	38.68	Horizontal
710.0884	-65.78	-25	40.78	Horizontal
2698.7064	-36.11	-25	11.11	Horizontal
7476.8823	-47.09	-25	22.09	Horizontal
16388.882	-34.87	-25	9.87	Horizontal

Remark:

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.

We have tested all modulation and all Bandwidth , but only the worst case data presented in this report.



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8. Frequency Stability

8.1. Frequency Vs Voltage

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	-1.30	-0.000519	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	VN	NT	2.00	0.000798	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	VH	NT	6.20	0.002474	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	VL	NT	-5.10	-0.001967	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	VN	NT	-8.70	-0.003355	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	VH	NT	-3.80	-0.001465	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	VL	NT	7.20	0.002687	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	VN	NT	-1.60	-0.000597	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	VH	NT	6.10	0.002276	±2.5	PASS
Band41	20MHz	16QAM	39750	27RB#0	VL	NT	2.70	0.001077	±2.5	PASS
Band41	20MHz	16QAM	39750	27RB#0	VN	NT	-0.70	-0.000279	±2.5	PASS
Band41	20MHz	16QAM	39750	27RB#0	VH	NT	-3.70	-0.001476	±2.5	PASS
Band41	20MHz	16QAM	40620	27RB#0	VL	NT	3.70	0.001427	±2.5	PASS
Band41	20MHz	16QAM	40620	27RB#0	VN	NT	0.10	0.000039	±2.5	PASS
Band41	20MHz	16QAM	40620	27RB#0	VH	NT	7.80	0.003008	±2.5	PASS
Band41	20MHz	16QAM	41490	27RB#0	VL	NT	-8.60	-0.003209	±2.5	PASS
Band41	20MHz	16QAM	41490	27RB#0	VN	NT	3.50	0.001306	±2.5	PASS
Band41	20MHz	16QAM	41490	27RB#0	VH	NT	3.60	0.001343	±2.5	PASS

8.2. Frequency Vs Temperature

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	-6.80	-0.002713	±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	-4.80	-0.001915	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	10	3.80	0.001516	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	20	1.90	0.000758	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	30	0.80	0.000319	±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	-5.70	-0.002275	±2.5	PASS



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Band41	20MHz	QPSK	40620	100RB#0	NV	-30	-7.80	-0.003008	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-20	-8.10	-0.003124	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	0	-3.00	-0.001157	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	10	2.60	0.001003	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	20	5.90	0.002275	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	30	-6.80	-0.002622	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	40	-6.00	-0.002314	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	50	-10.40	-0.004011	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	-30	-4.30	-0.001604	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	-20	-5.90	-0.002201	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	0	-1.40	-0.000522	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	10	1.30	0.000485	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	20	0.50	0.000187	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	30	-9.80	-0.003657	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	40	5.10	0.001903	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	50	6.00	0.002239	±2.5	PASS
Band41	20MHz	16QAM	39750	27RB#0	NV	-30	3.50	0.001397	±2.5	PASS
Band41	20MHz	16QAM	39750	27RB#0	NV	-20	3.20	0.001277	±2.5	PASS
Band41	20MHz	16QAM	39750	27RB#0	NV	0	-0.50	-0.000200	±2.5	PASS
Band41	20MHz	16QAM	39750	27RB#0	NV	10	-7.00	-0.002793	±2.5	PASS
Band41	20MHz	16QAM	39750	27RB#0	NV	20	0.00	0.000000	±2.5	PASS
Band41	20MHz	16QAM	39750	27RB#0	NV	30	4.50	0.001796	±2.5	PASS
Band41	20MHz	16QAM	39750	27RB#0	NV	40	-4.00	-0.001596	±2.5	PASS
Band41	20MHz	16QAM	39750	27RB#0	NV	50	-4.90	-0.001955	±2.5	PASS
Band41	20MHz	16QAM	40620	27RB#0	NV	-30	-5.70	-0.002198	±2.5	PASS
Band41	20MHz	16QAM	40620	27RB#0	NV	-20	-1.50	-0.000578	±2.5	PASS
Band41	20MHz	16QAM	40620	27RB#0	NV	0	1.40	0.000540	±2.5	PASS
Band41	20MHz	16QAM	40620	27RB#0	NV	10	8.20	0.003162	±2.5	PASS
Band41	20MHz	16QAM	40620	27RB#0	NV	20	7.00	0.002700	±2.5	PASS
Band41	20MHz	16QAM	40620	27RB#0	NV	30	5.60	0.002160	±2.5	PASS
Band41	20MHz	16QAM	40620	27RB#0	NV	40	-6.40	-0.002468	±2.5	PASS
Band41	20MHz	16QAM	40620	27RB#0	NV	50	0.00	0.000000	±2.5	PASS
Band41	20MHz	16QAM	41490	27RB#0	NV	-30	-0.60	-0.000224	±2.5	PASS
Band41	20MHz	16QAM	41490	27RB#0	NV	-20	0.60	0.000224	±2.5	PASS
Band41	20MHz	16QAM	41490	27RB#0	NV	0	4.00	0.001493	±2.5	PASS
Band41	20MHz	16QAM	41490	27RB#0	NV	10	-0.20	-0.000075	±2.5	PASS
Band41	20MHz	16QAM	41490	27RB#0	NV	20	-2.00	-0.000746	±2.5	PASS
Band41	20MHz	16QAM	41490	27RB#0	NV	30	-4.80	-0.001791	±2.5	PASS



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Band41	20MHz	16QAM	41490	27RB#0	NV	40	0.90	0.000336	±2.5	PASS
Band41	20MHz	16QAM	41490	27RB#0	NV	50	5.70	0.002127	±2.5	PASS

The End



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