



# Appendix B

## E-UTRA Band 41



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**CONTENT**

**1 EFFECTIVE (ISOTROPIC) RADIATED POWER..... 3**

1.1. TEST RESULT..... 3

**2. PEAK-TO-AVERAGE RATIO (CCDF)..... 7**

2.1. TEST RESULT..... 7

2.2. TEST PLOTS ..... 7

**3. MODULATION CHARACTERISTICS .....11**

3.1. TEST MODE = LTE /TM1 20MHZ .....11

3.1.1. TEST CHANNEL = MCH .....11

3.2. TEST MODE = LTE /TM2 20MHZ .....12

3.2.1. TEST CHANNEL = MCH .....12

**4. 26DB BANDWIDTH AND OCCUPIED BANDWIDTH .....13**

4.1. TEST RESULT.....13

4.2. TEST PLOTS .....14

**5. BAND EDGE COMPLIANCE .....26**

5.1. TEST PLOTS .....26

**6. SPURIOUS EMISSION AT ANTENNA TERMINAL .....42**

6.1. TEST PLOTS .....42

**7. FIELD STRENGTH OF SPURIOUS RADIATION.....48**

7.1. TEST MODE =LTE/TM1 .....48

7.1.1. TEST CHANNEL = LCH.....48

7.1.2. TEST CHANNEL = MCH .....48

7.1.3. TEST CHANNEL = HCH .....49

**8. FREQUENCY STABILITY.....50**

8.1. FREQUENCY VS VOLTAGE.....50

8.2. FREQUENCY VS TEMPERATURE .....50



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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,

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

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



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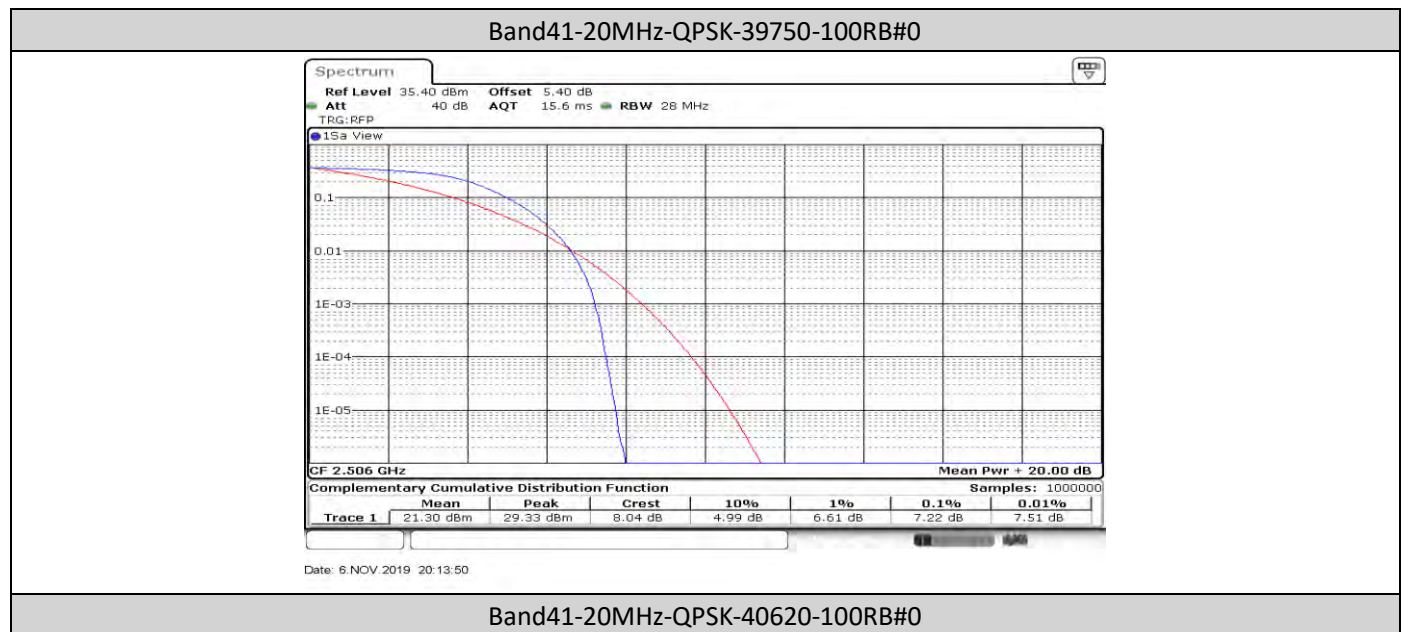


## 2. Peak-to-Average Ratio (CCDF)

### 2.1. Test Result

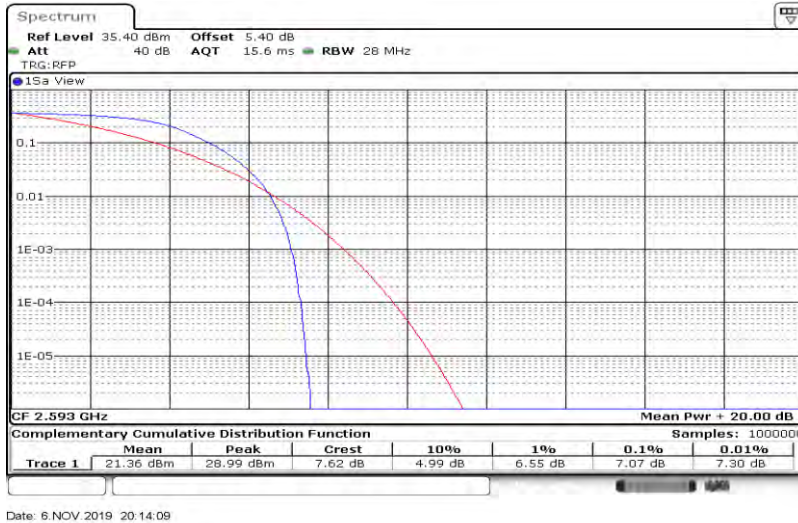
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band41	20MHz	QPSK	39750	100RB#0	8.46	13	PASS
Band41	20MHz	QPSK	40620	100RB#0	7.07	13	PASS
Band41	20MHz	QPSK	41490	100RB#0	8.93	13	PASS
Band41	20MHz	16QAM	39750	100RB#0	8.09	13	PASS
Band41	20MHz	16QAM	40620	100RB#0	8.17	13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

### 2.2. Test Plots



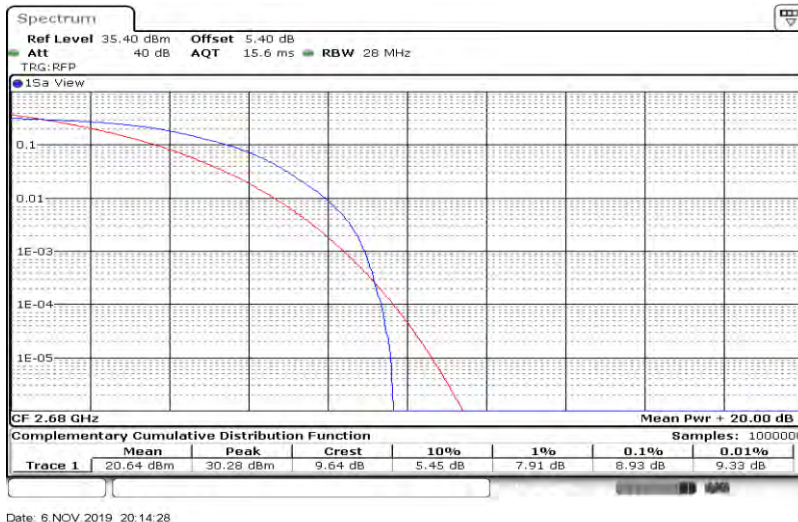
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Date: 6 NOV 2019 20:14:09

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



Date: 6 NOV 2019 20:14:28

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

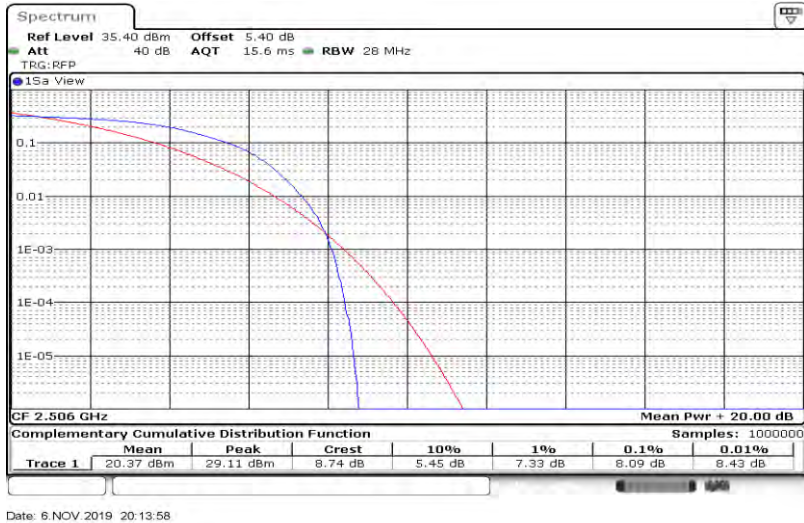


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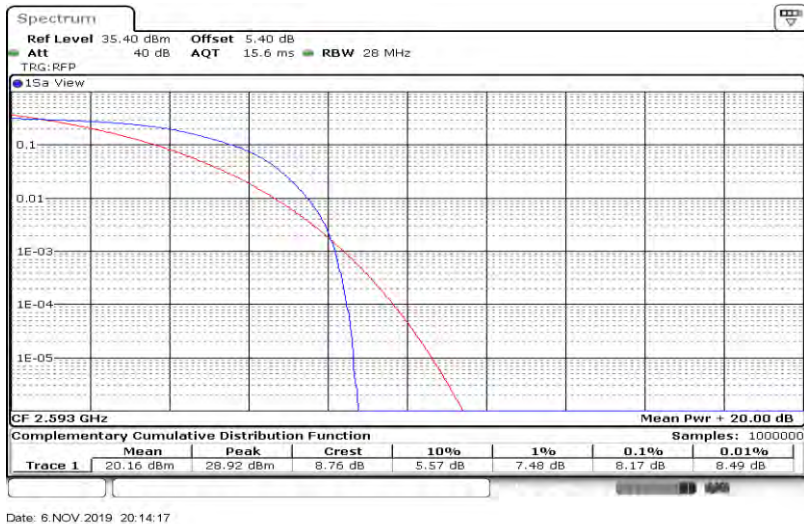
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Date: 6 NOV 2019 20:13:58

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



Date: 6 NOV 2019 20:14:17

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

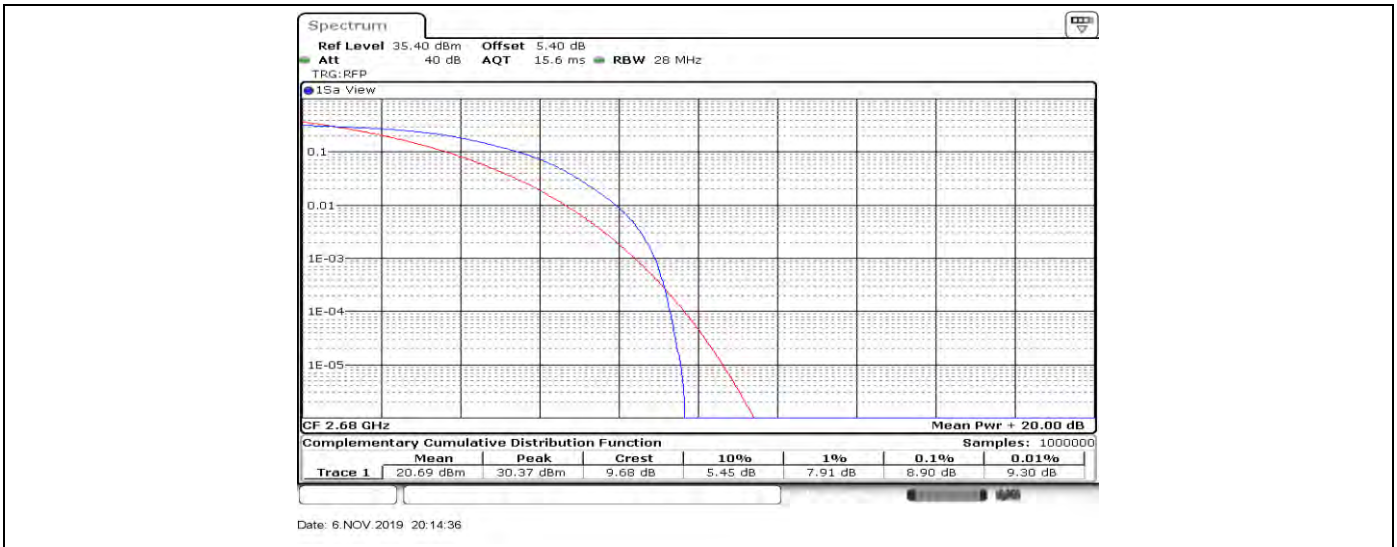


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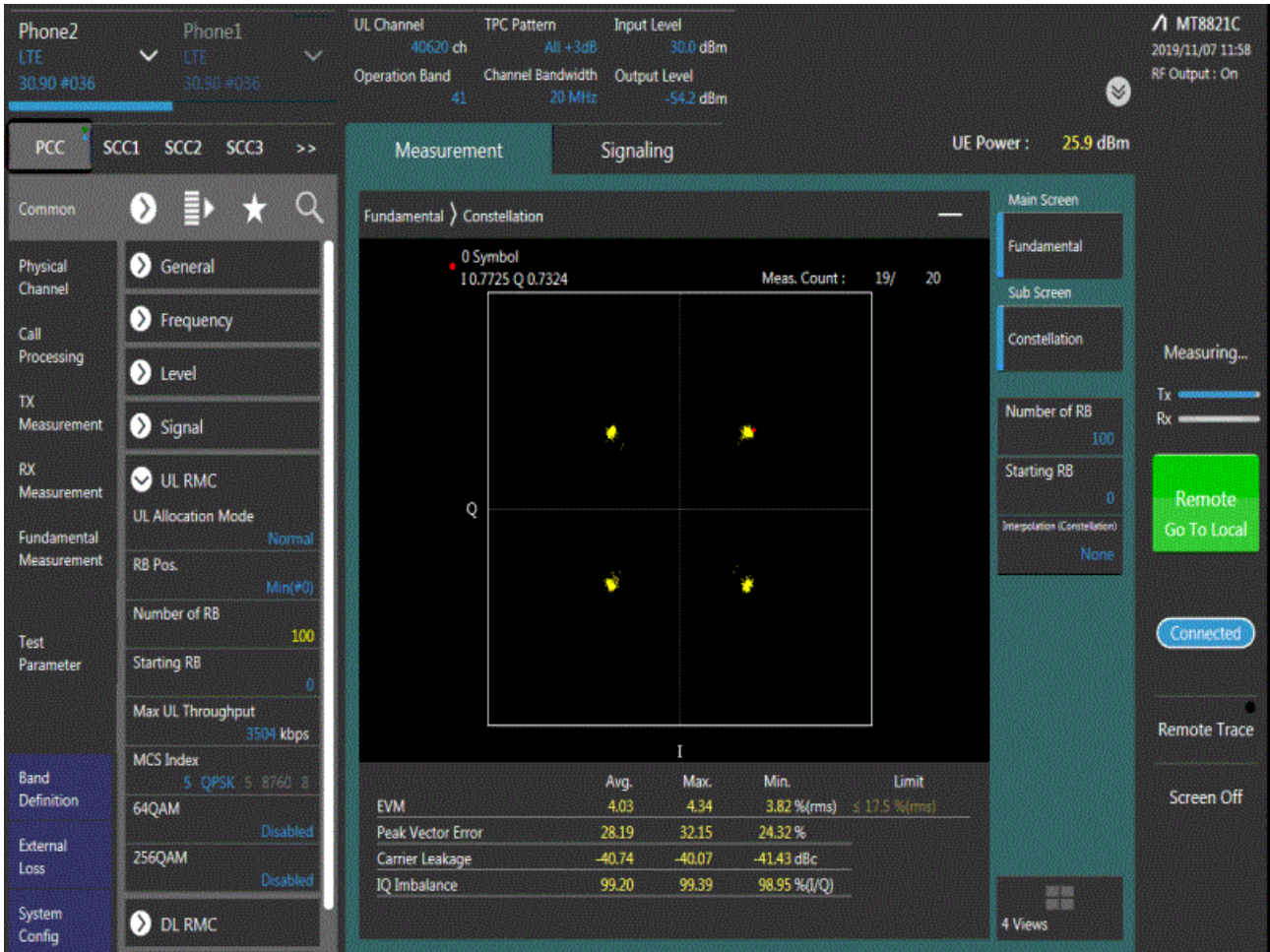
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### 3. Modulation Characteristics

#### 3.1. Test Mode = LTE /TM1 20MHz

##### 3.1.1. Test Channel = MCH



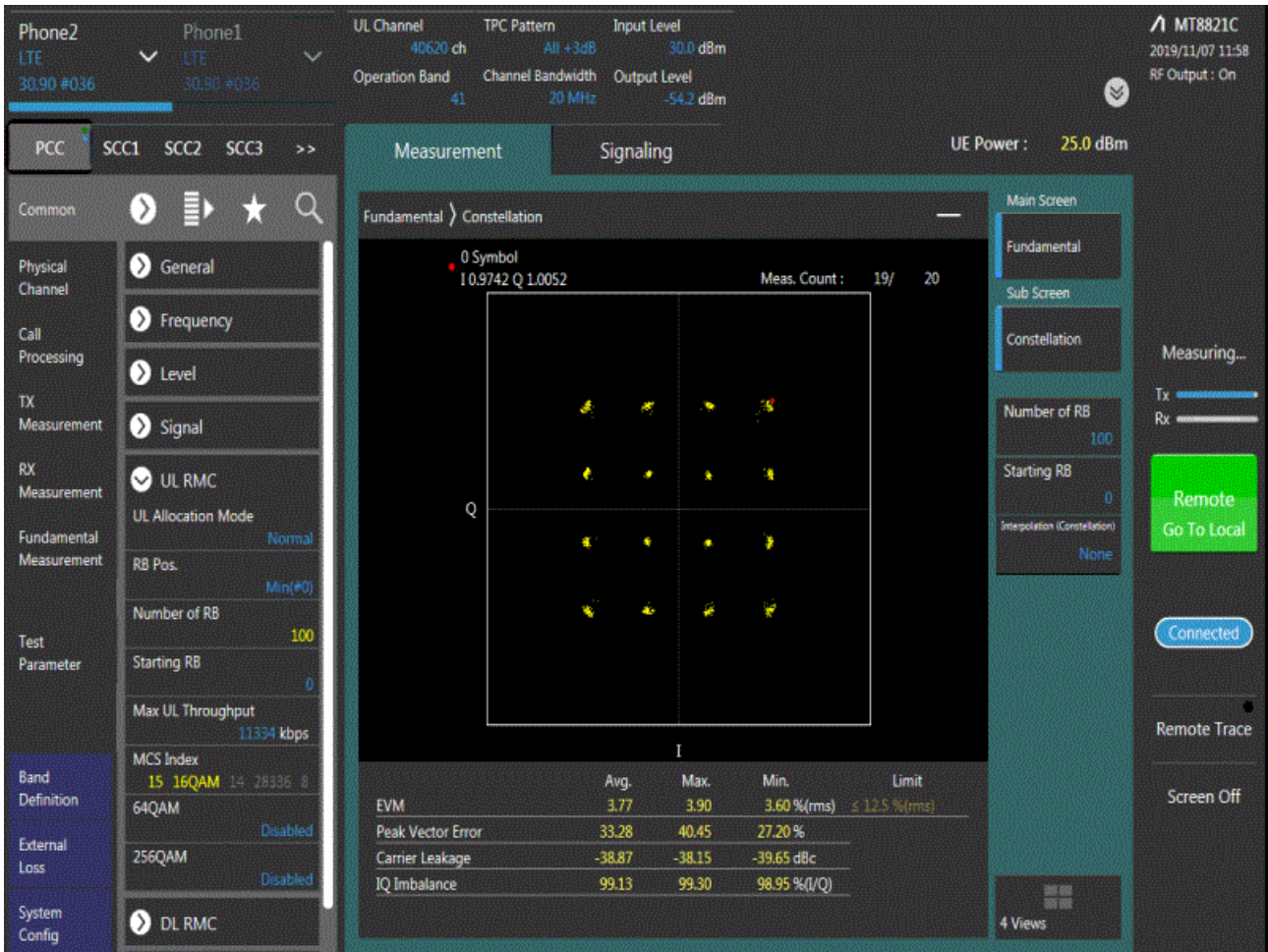
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### 3.2. Test Mode = LTE /TM2 20MHz

#### 3.2.1. Test Channel = MCH



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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	4.486	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



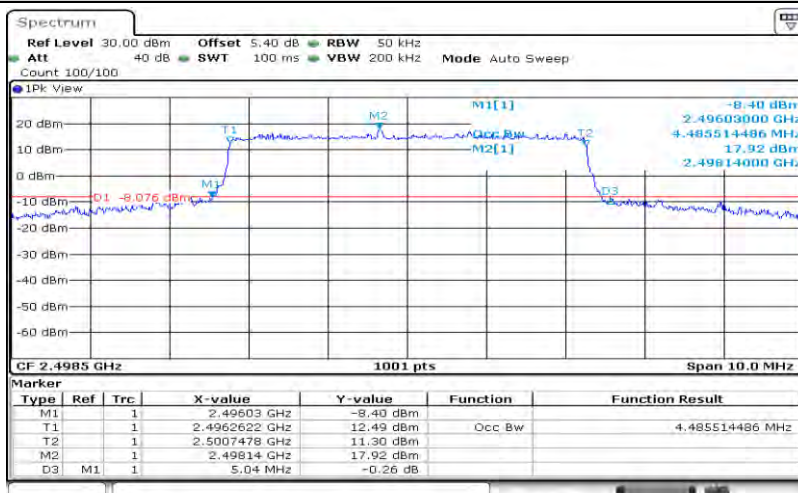
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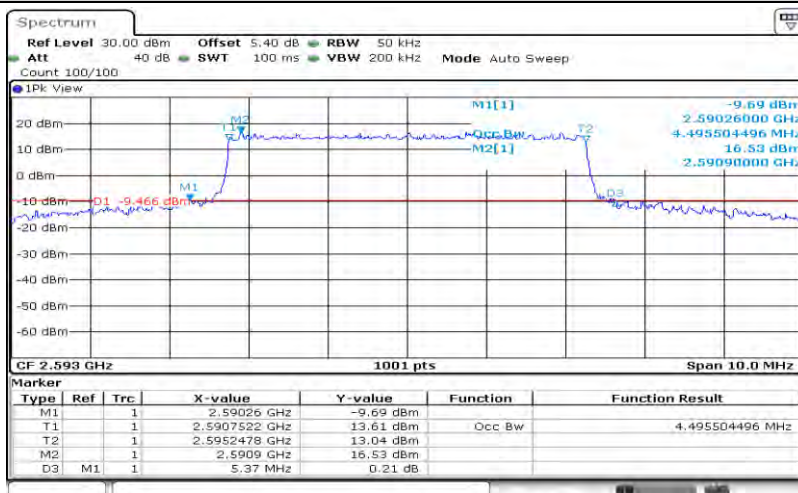
### 4.2. Test Plots

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



Date: 6 NOV. 2019 23:58:49

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



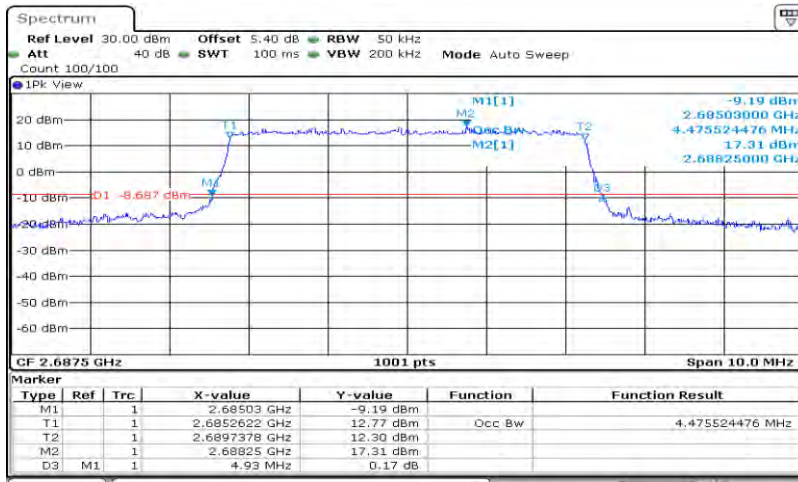
Date: 6 NOV. 2019 23:57:26

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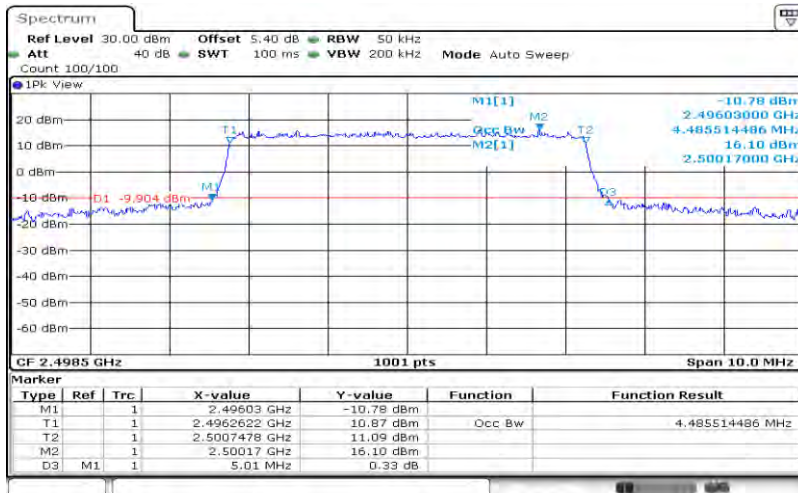
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Date: 6 NOV. 2019 23:58:02

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

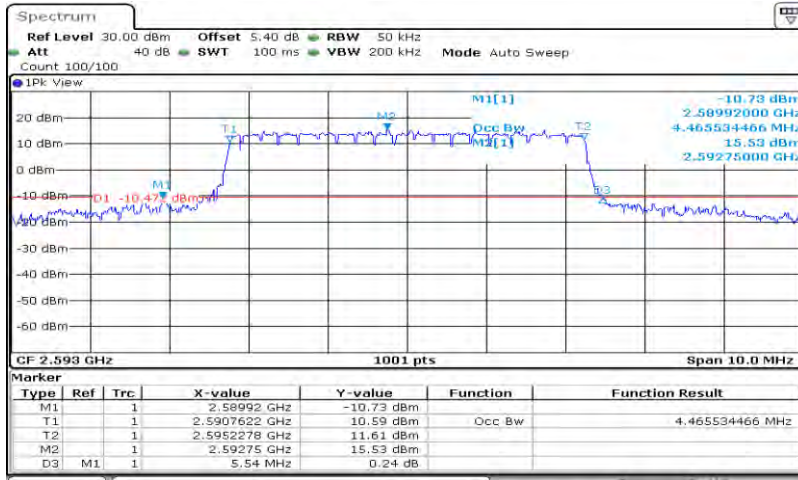


Date: 6 NOV. 2019 23:57:06

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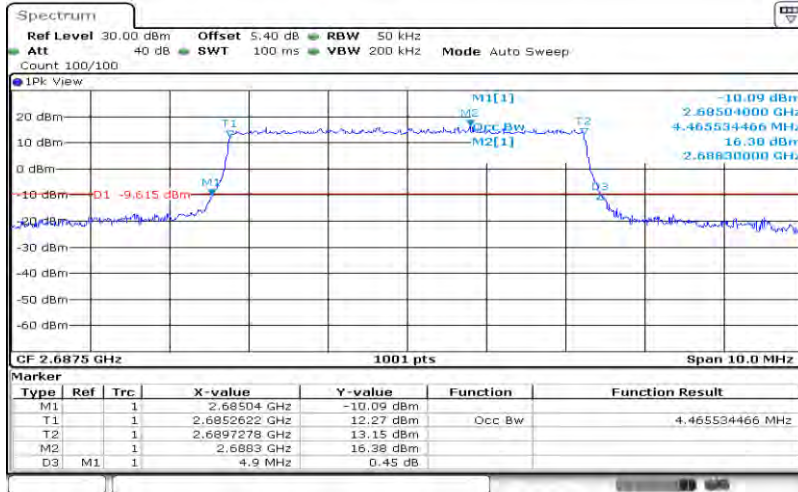


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Date: 6 NOV. 2019 23:57:43

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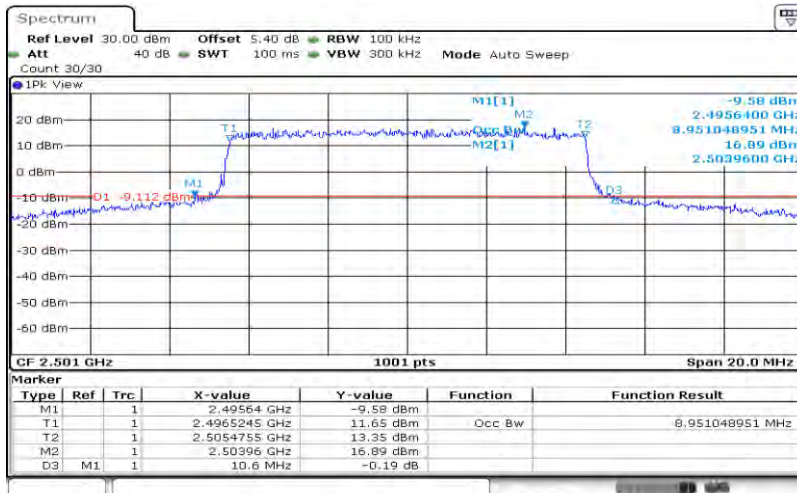


Date: 6 NOV. 2019 23:58:19

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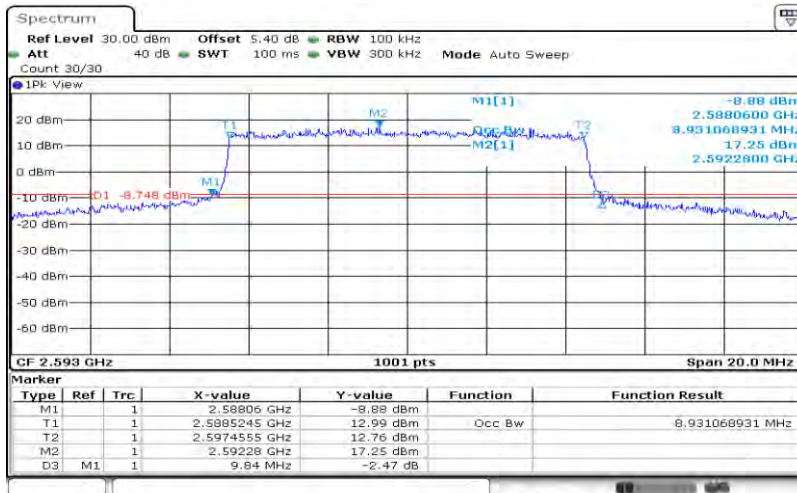


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Date: 7 NOV 2019 00:00:46

**Band41-10MHz-QPSK-40620-50RB#0-8.931**



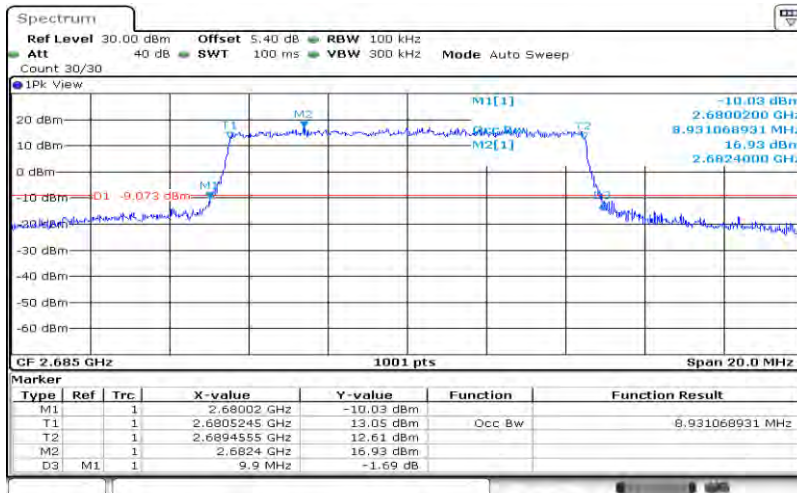
Date: 7 NOV 2019 00:01:08

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



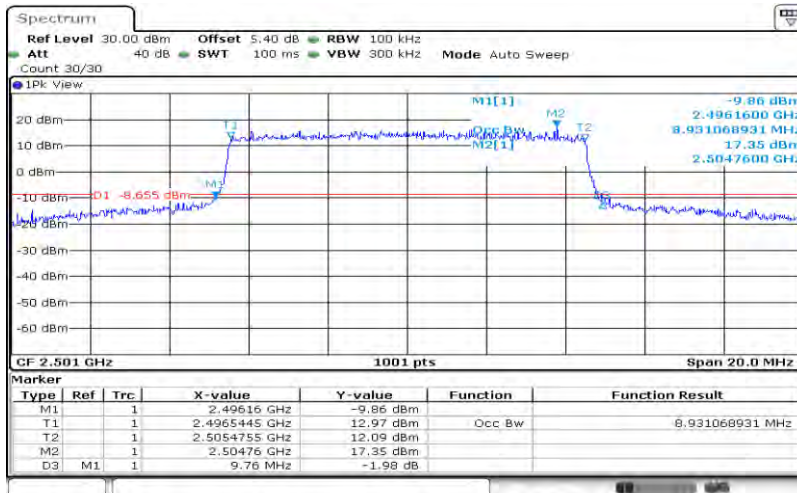
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Date: 7 NOV. 2019 00:01:30

**Band41-10MHz-16QAM-39700-50RB#0-8.931**

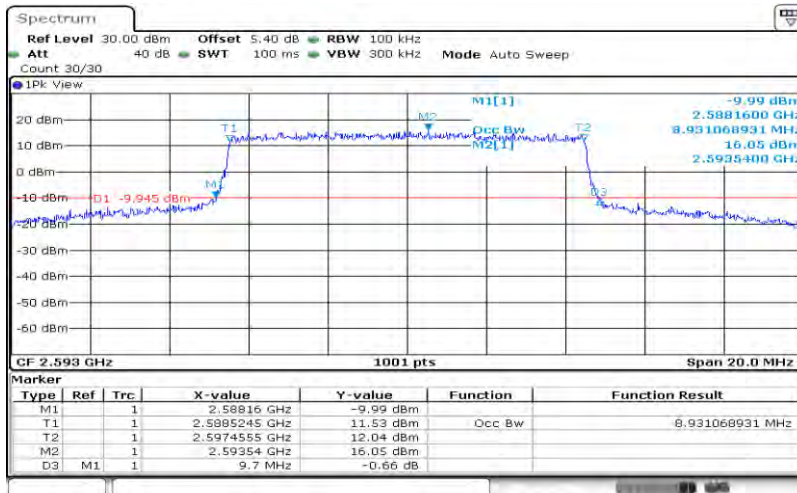


Date: 7 NOV. 2019 00:00:56

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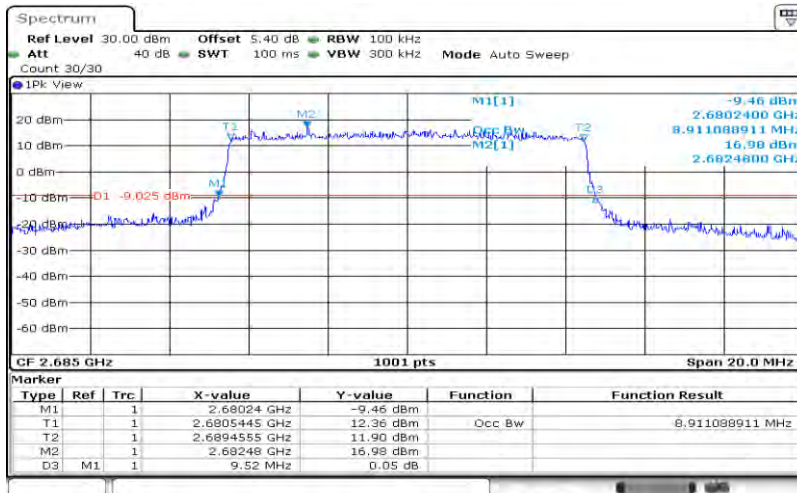


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**Band41-10MHz-16QAM-41540-50RB#0-8.911**

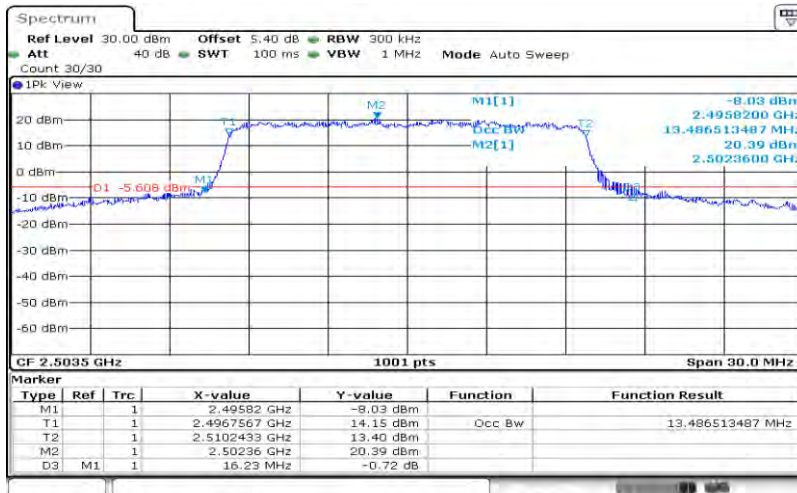


Date: 7 NOV. 2019 00:01:40

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

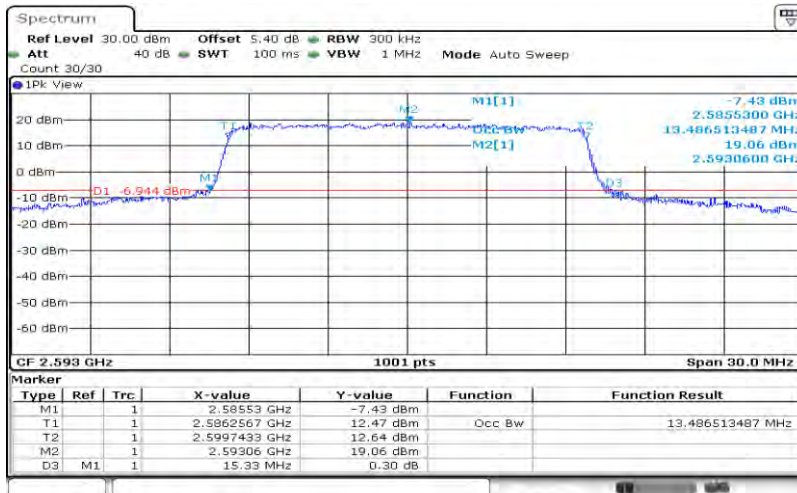


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Date: 7 NOV. 2019 00:04:15

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



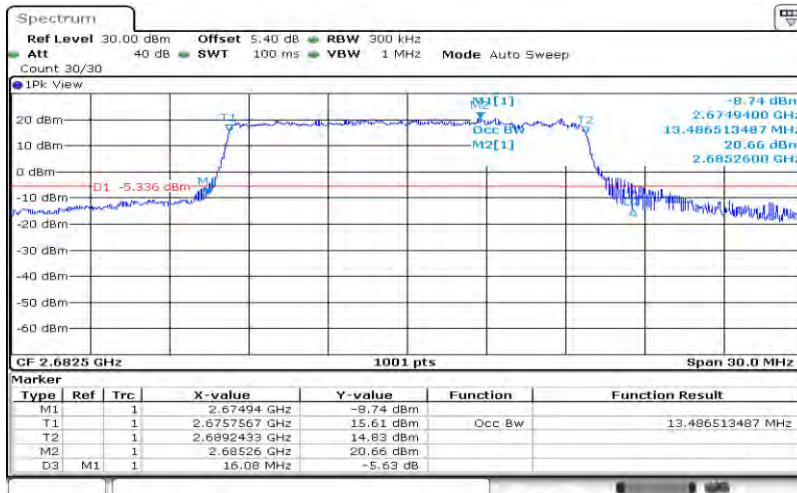
Date: 7 NOV. 2019 00:04:36

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



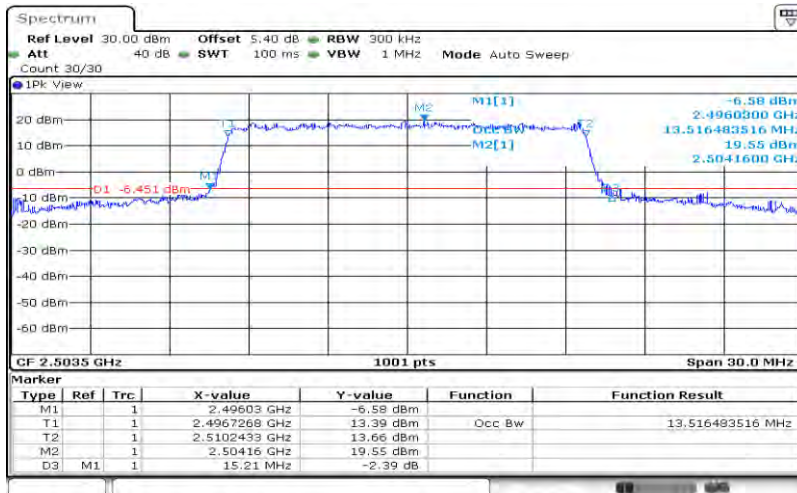
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Date: 7 NOV. 2019 00:04:58

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

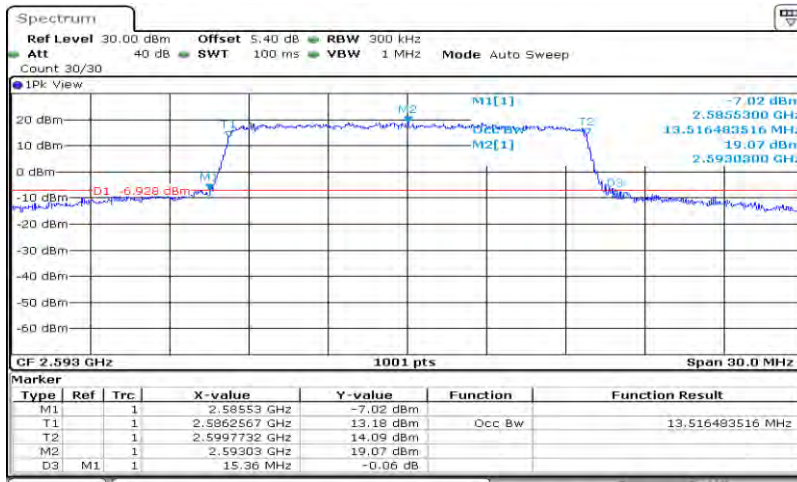


Date: 7 NOV. 2019 00:04:25

**Band41-15MHz-16QAM-40620-75RB#0-13.516**

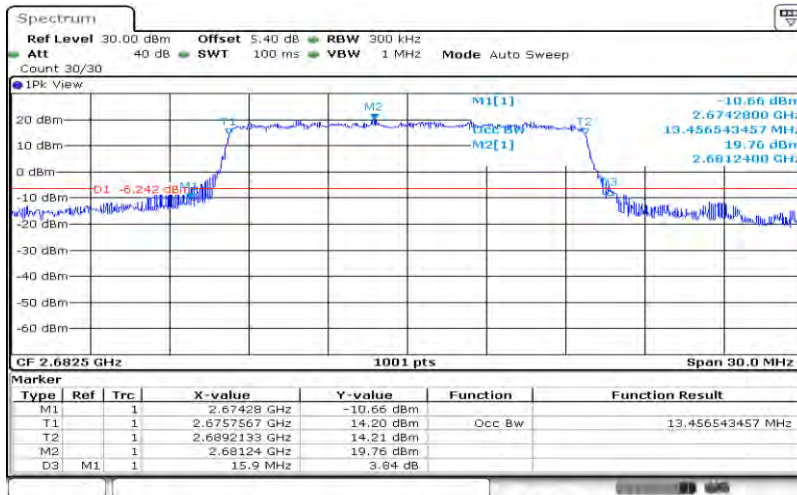


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Date: 7 NOV. 2019 00:04:46

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

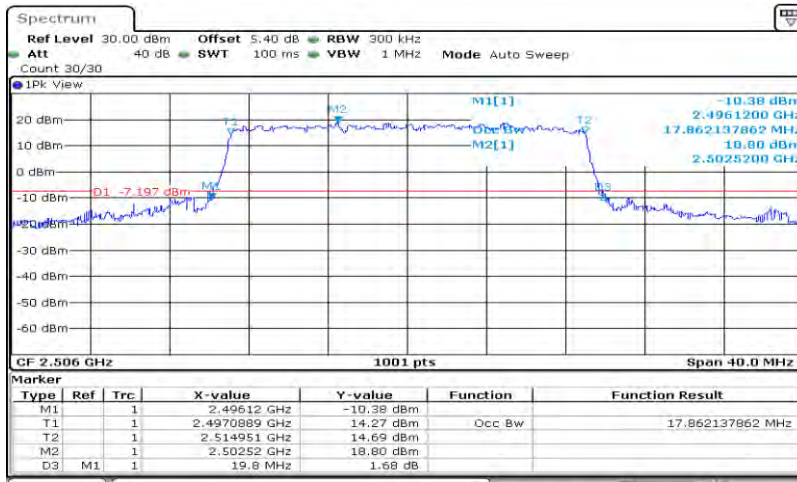


Date: 7 NOV. 2019 00:05:08

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

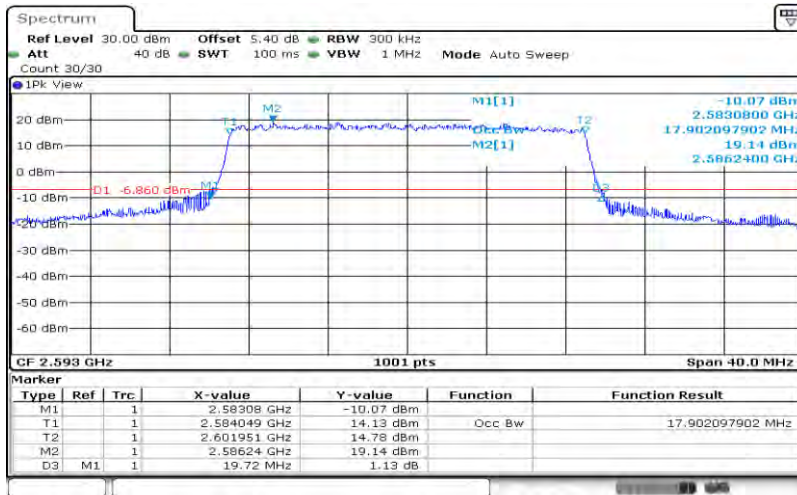


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Date: 7 NOV. 2019 19:33:12

**Band41-20MHz-QPSK-40620-100RB#0-17.902**



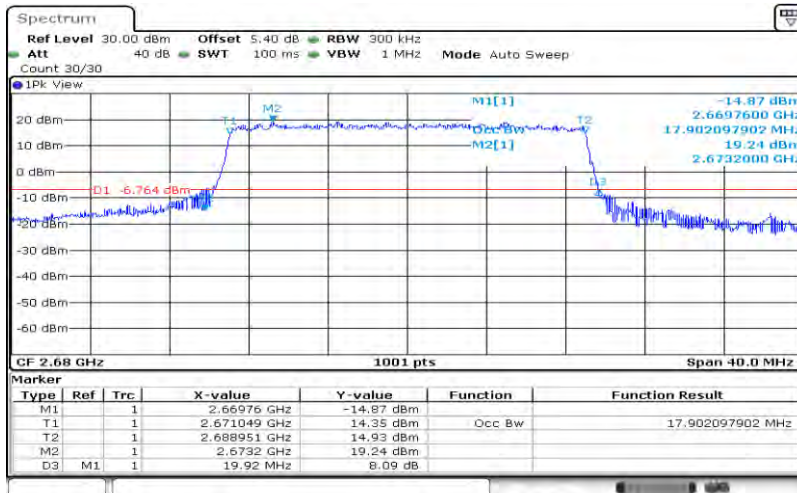
Date: 7 NOV. 2019 19:33:43

**Band41-20MHz-QPSK-41490-100RB#0-17.902**



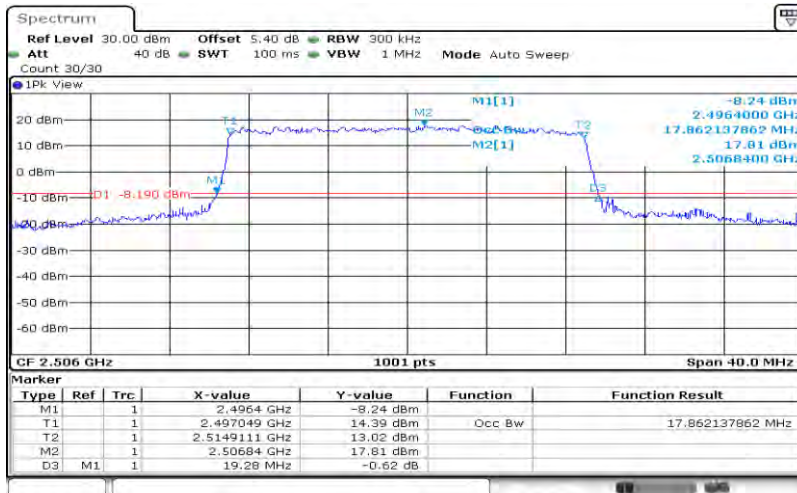
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Date: 7 NOV 2019 19:34:08

**Band41-20MHz-16QAM-39750-100RB#0-17.862**

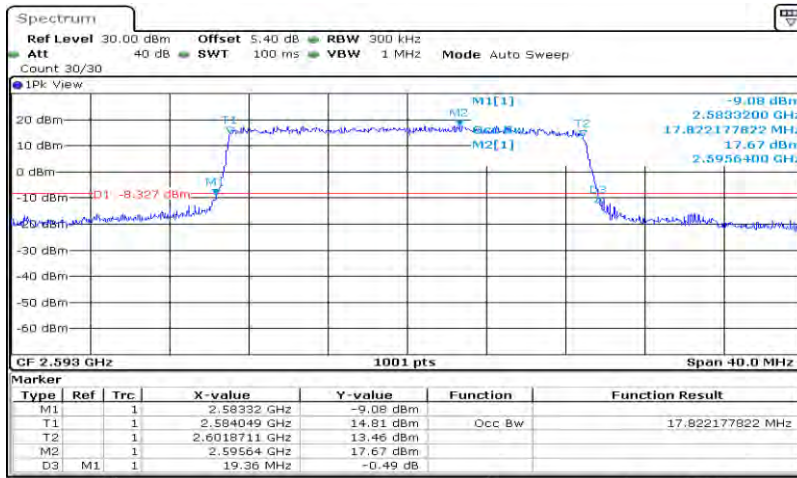


Date: 7 NOV 2019 19:33:30

**Band41-20MHz-16QAM-40620-100RB#0-17.822**



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Date: 7 NOV 2019 19:33:55

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



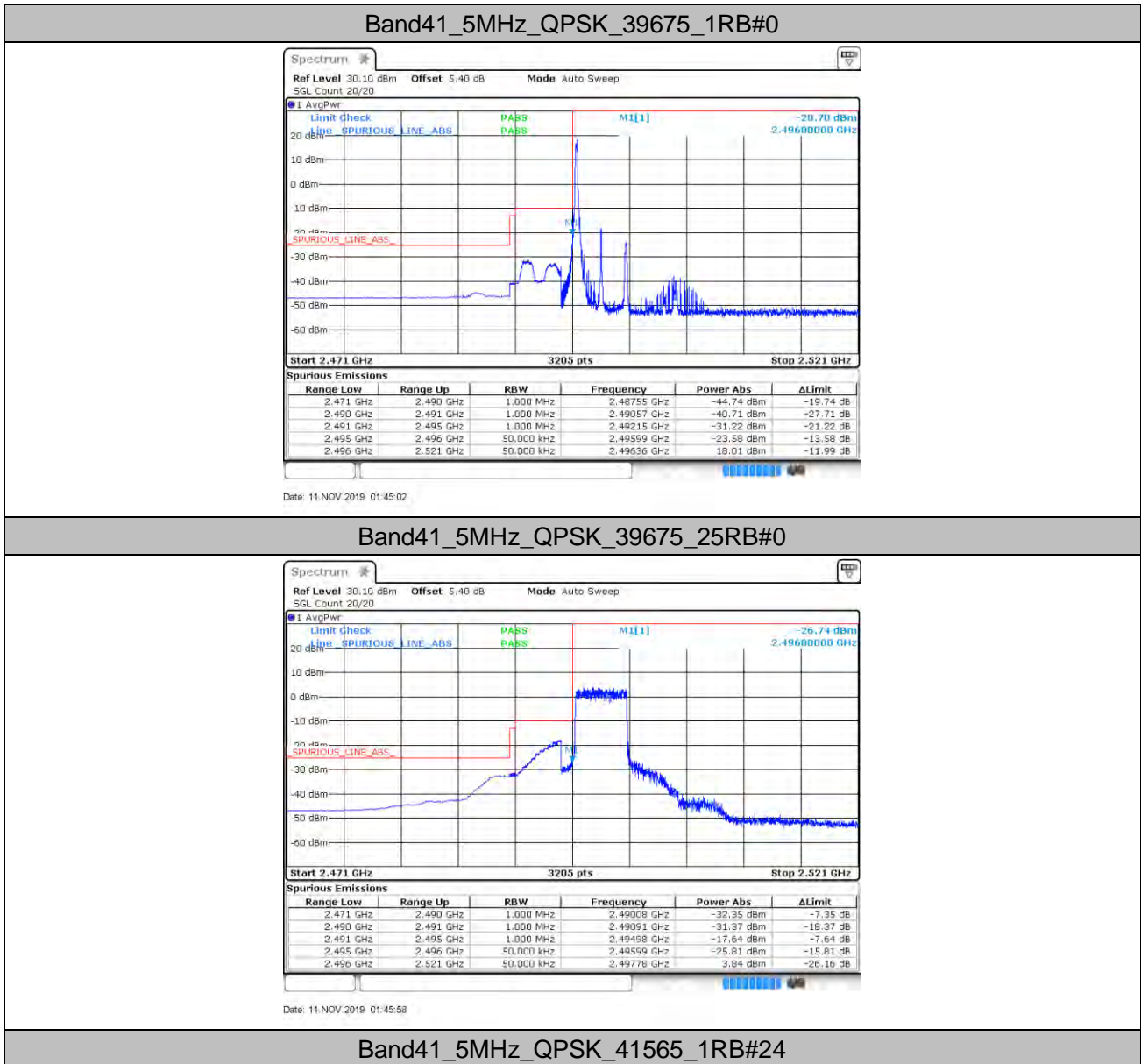
Date: 7 NOV 2019 19:34:21



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## 5. Band Edge Compliance

### 5.1. Test Plots

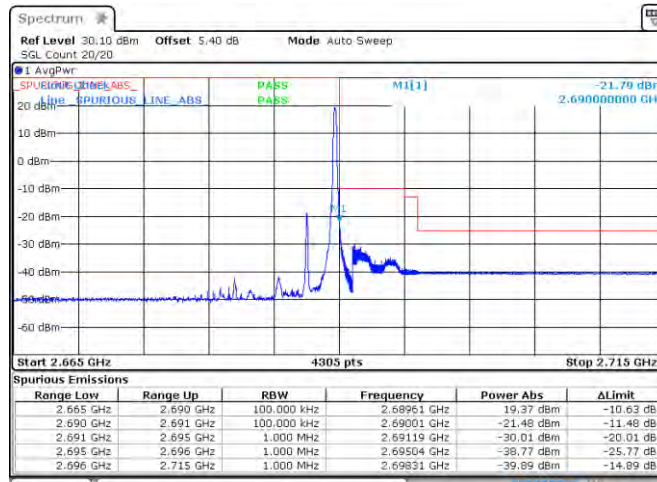


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No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn  
 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com





Date: 11.NOV.2019 01:48:02

**Band41\_5MHz\_QPSK\_41565\_25RB#0**

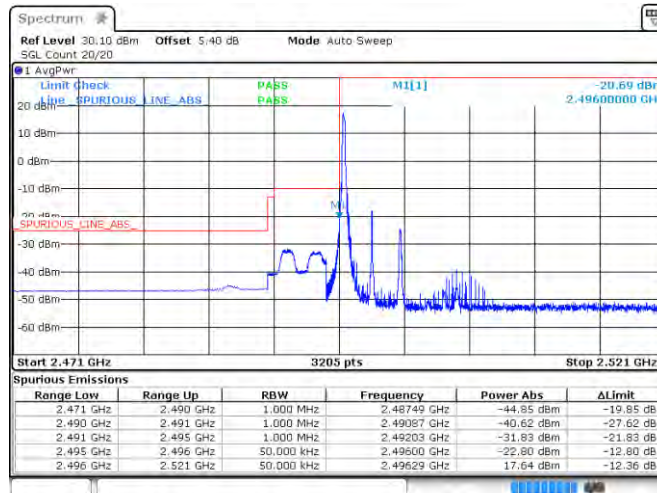


Date: 11.NOV.2019 01:47:13

**Band41\_5MHz\_16QAM\_39675\_1RB#0**

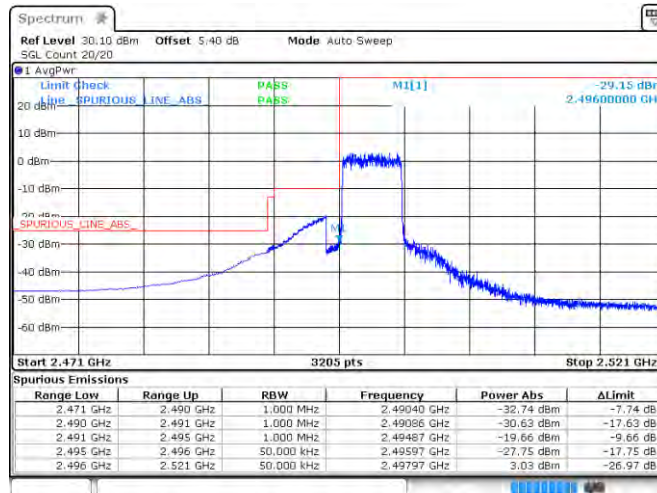


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Date: 11.NOV.2019 01:45:24

**Band41\_5MHz\_16QAM\_39675\_25RB#0**

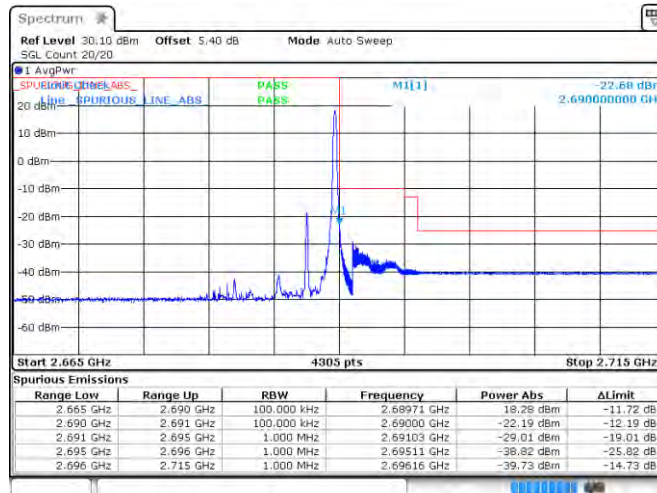


Date: 11.NOV.2019 01:45:43

**Band41\_5MHz\_16QAM\_41565\_1RB#24**

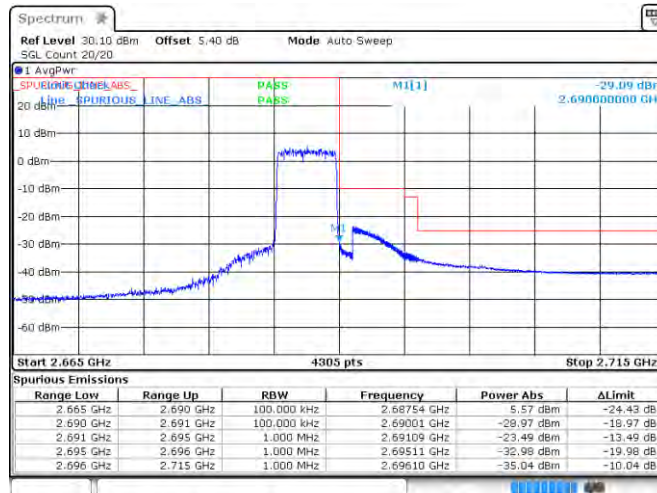


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Date: 11.NOV.2019 01:47:50

**Band41\_5MHz\_16QAM\_41565\_25RB#0**



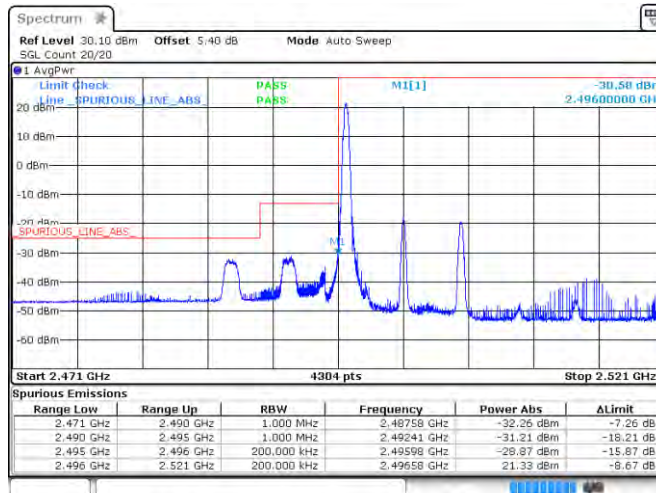
Date: 11.NOV.2019 01:47:27

**Band41\_10MHz\_QPSK\_39700\_1RB#0**



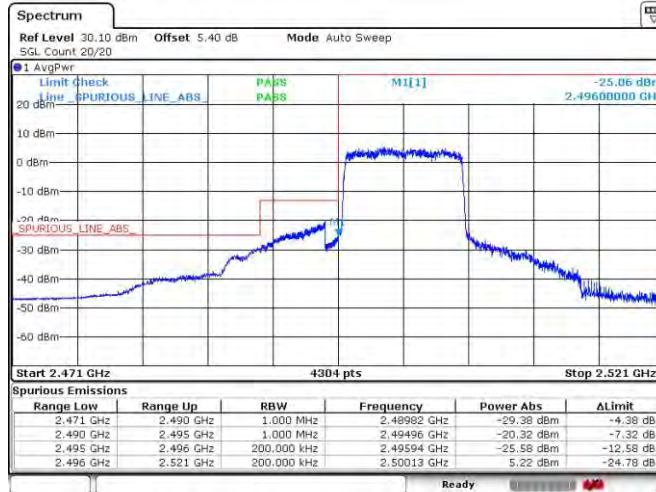
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Date: 11.NOV.2019 02:05:52

Band41\_10MHz\_QPSK\_39700\_50RB#0

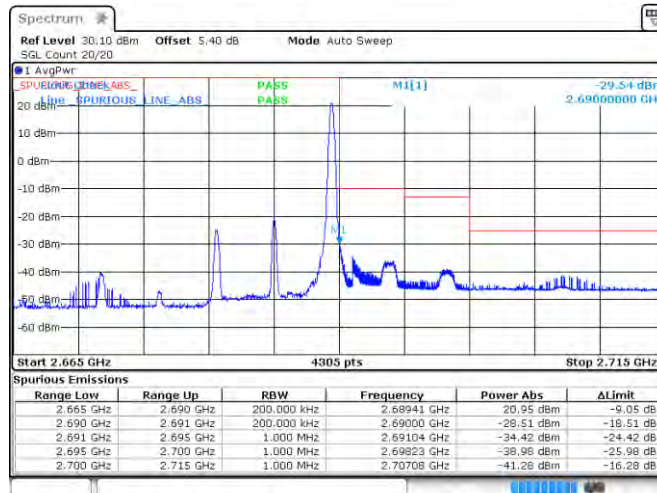


Date: 16.NOV.2019 03:23:05

Band41\_10MHz\_QPSK\_41540\_1RB#49

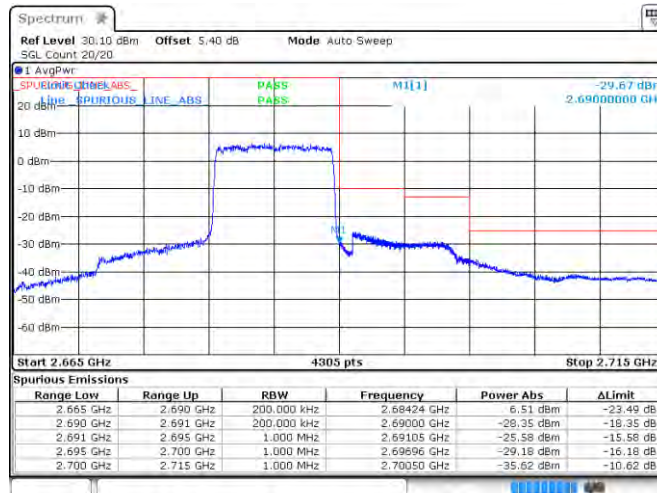


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Date: 11.NOV.2019 01:50:56

**Band41\_10MHz\_QPSK\_41540\_50RB#0**

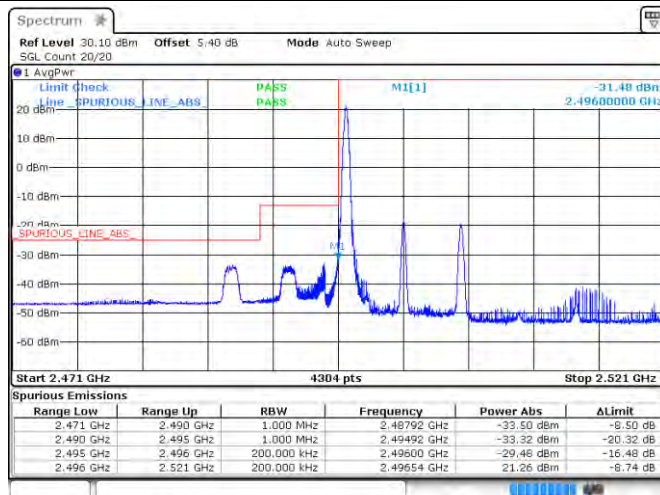


Date: 11.NOV.2019 01:49:56

**Band41\_10MHz\_16QAM\_39700\_1RB#0**

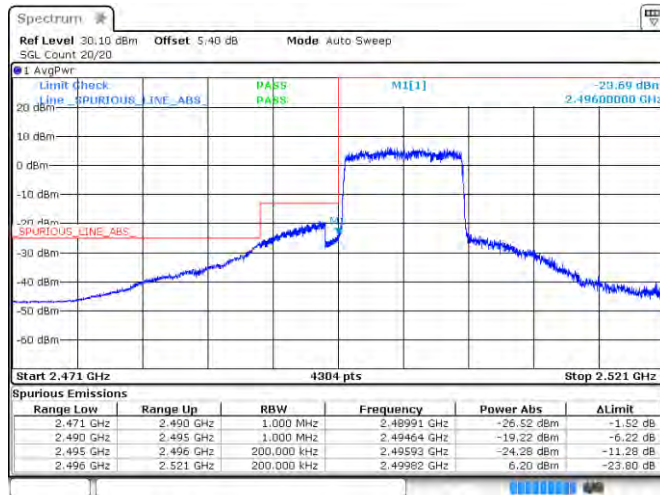


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Date: 11.NOV.2019 02:08:16

**Band41\_10MHz\_16QAM\_39700\_50RB#0**



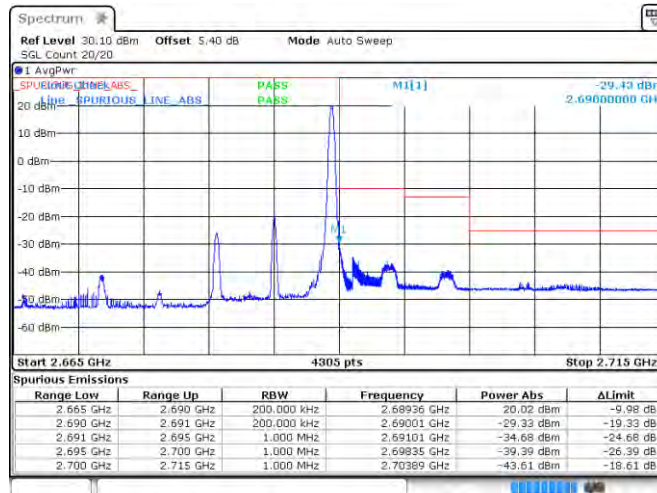
Date: 11.NOV.2019 02:06:41

**Band41\_10MHz\_16QAM\_41540\_1RB#49**



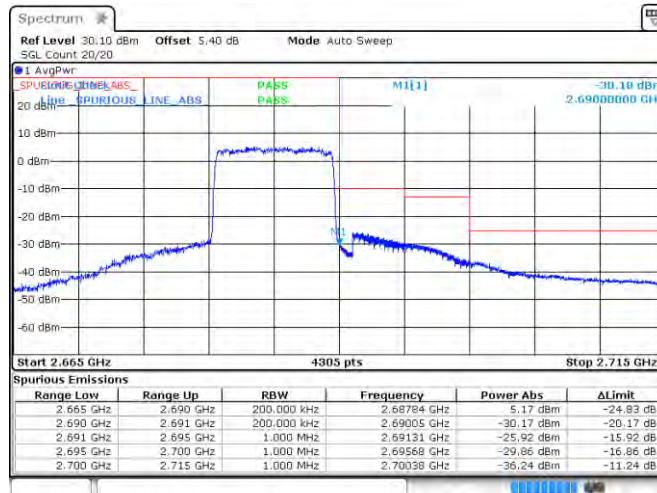
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Date: 11.NOV.2019 01:50:43

Band41\_10MHz\_16QAM\_41540\_50RB#0

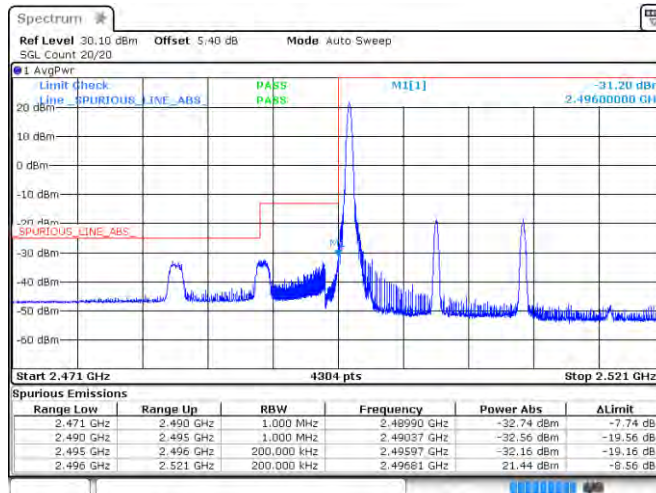


Date: 11.NOV.2019 01:50:21

Band41\_15MHz\_QPSK\_39725\_1RB#0

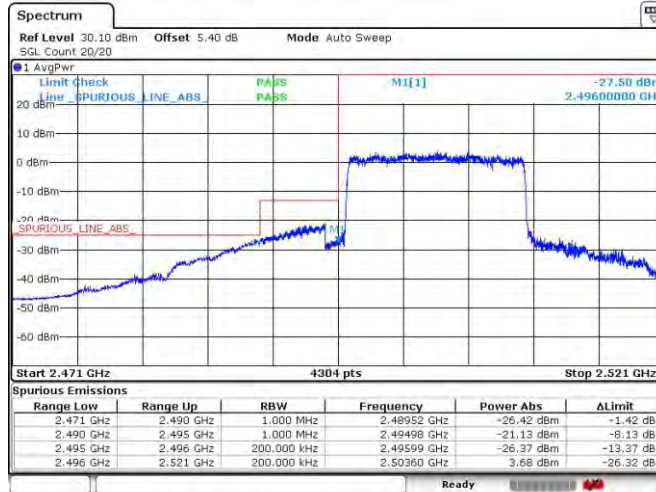


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Date: 11.NOV.2019 02:03:11

Band41\_15MHz\_QPSK\_39725\_75RB#0

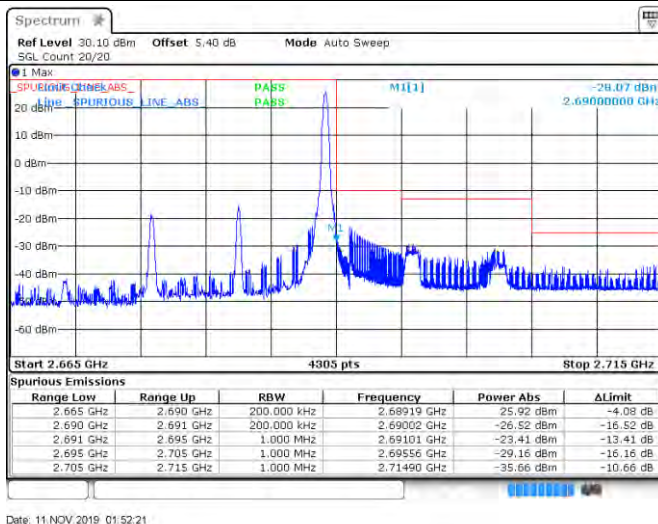


Date: 16.NOV.2019 03:22:25

Band41\_15MHz\_QPSK\_41515\_1RB#74

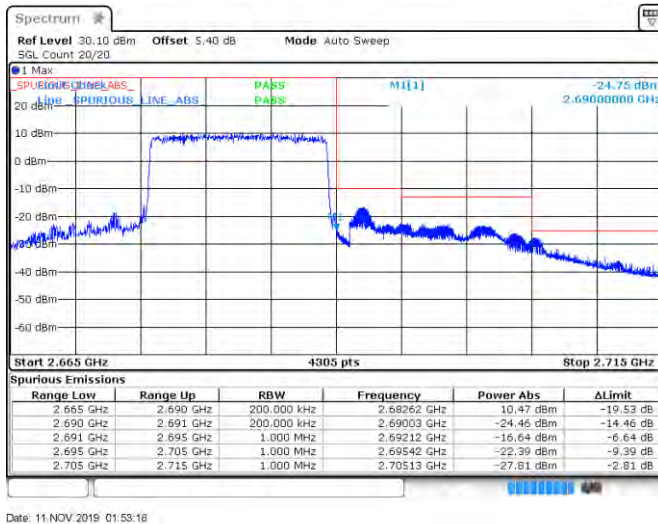


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Date: 11.NOV.2019 01:52:21

**Band41\_15MHz\_QPSK\_41515\_75RB#0**



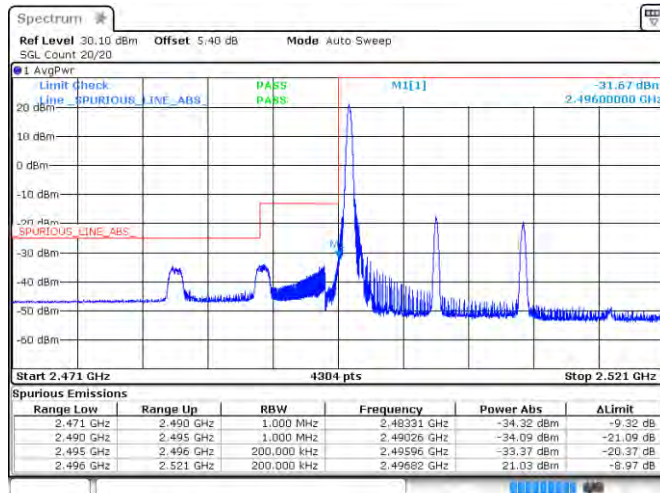
Date: 11.NOV.2019 01:53:18

**Band41\_15MHz\_16QAM\_39725\_1RB#0**



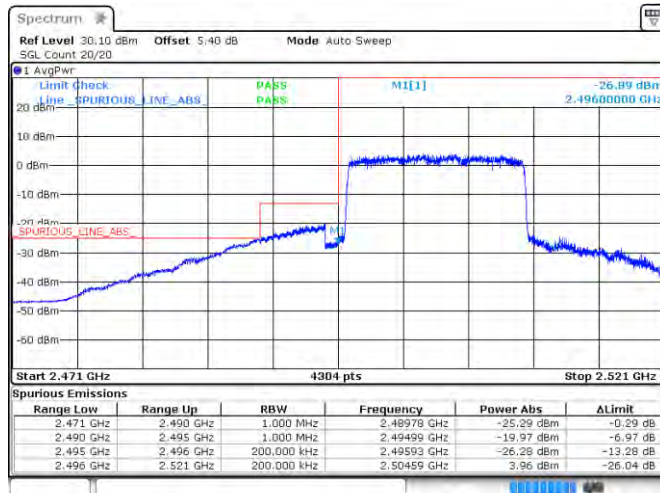
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Date: 11.NOV.2019 02:03:24

**Band41\_15MHz\_16QAM\_39725\_75RB#0**

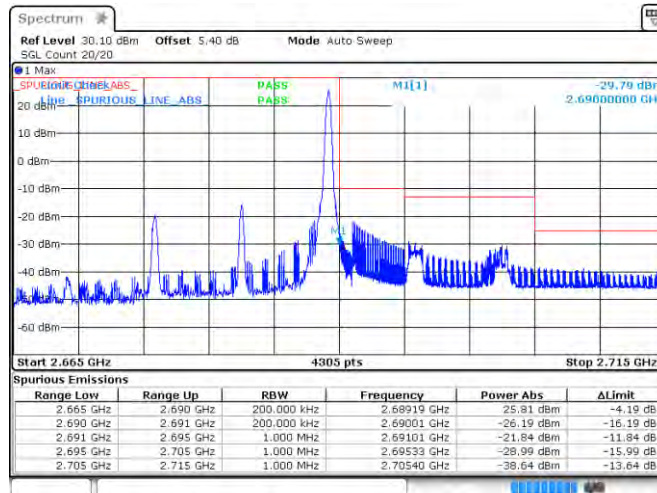


Date: 11.NOV.2019 02:03:44

**Band41\_15MHz\_16QAM\_41515\_1RB#74**

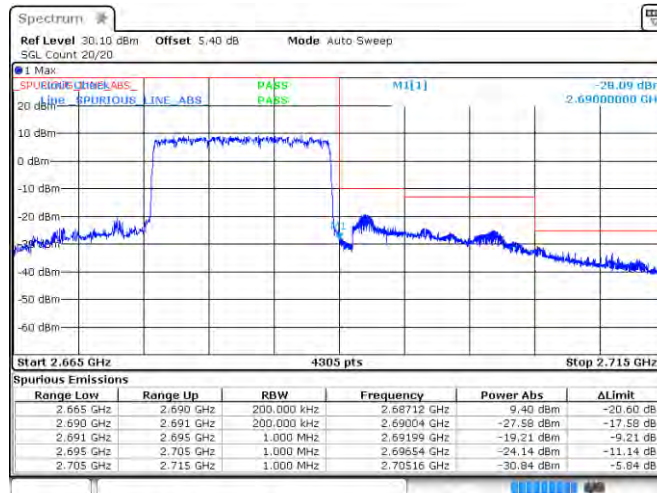


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Date: 11.NOV.2019 01:52:39

**Band41\_15MHz\_16QAM\_41515\_75RB#0**

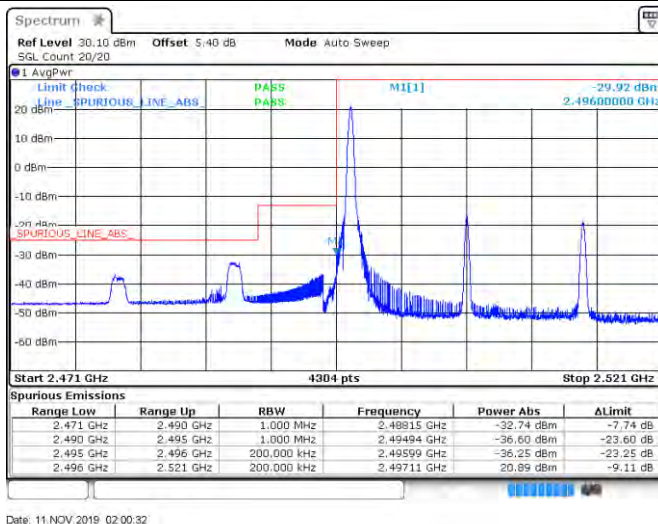


Date: 11.NOV.2019 01:53:05

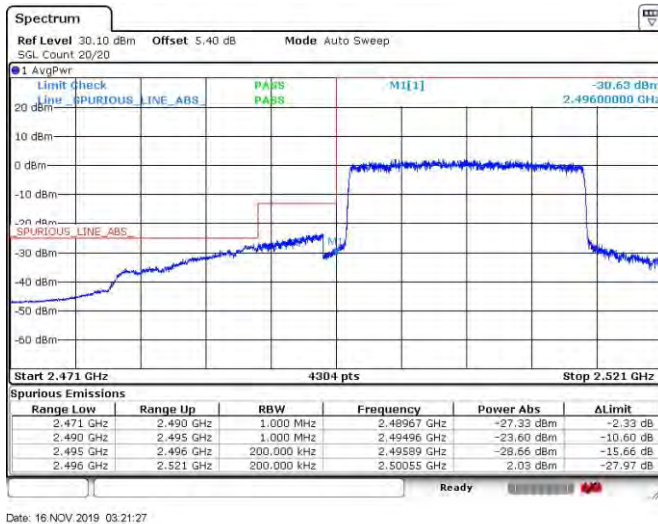
**Band41\_20MHz\_QPSK\_39750\_1RB#0**



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Band41\_20MHz\_QPSK\_39750\_100RB#0

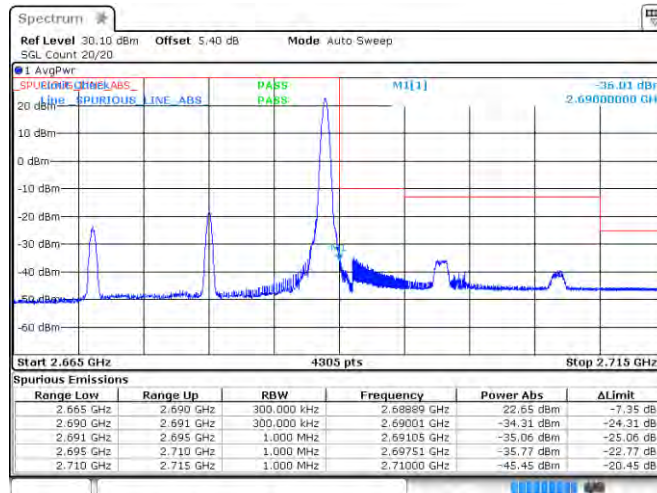


Band41\_20MHz\_QPSK\_41490\_1RB#99



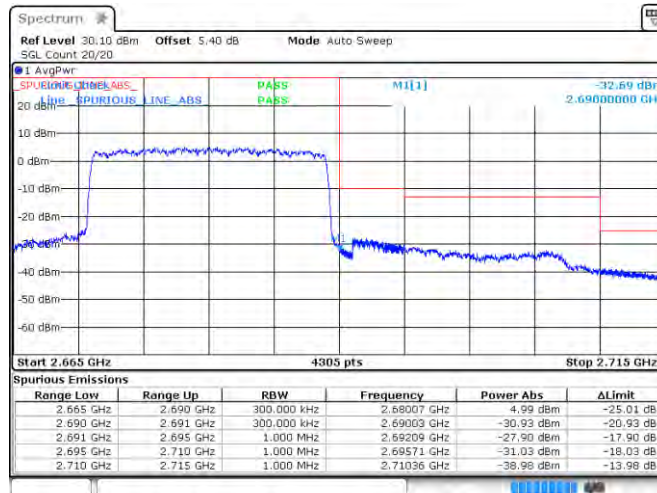
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Date: 11.NOV.2019 01:54:52

Band41\_20MHz\_QPSK\_41490\_100RB#0

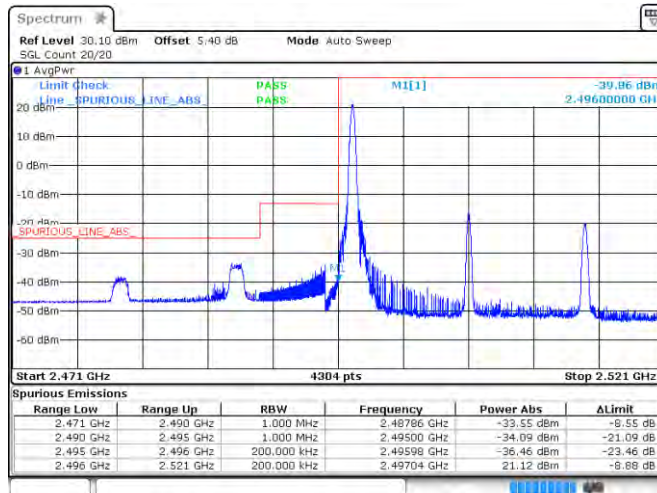


Date: 11.NOV.2019 01:55:48

Band41\_20MHz\_16QAM\_39750\_1RB#0

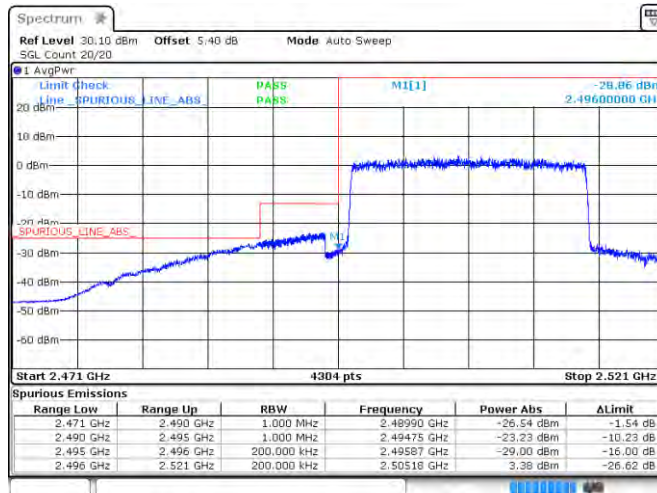


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Date: 11.NOV.2019 02:00:11

**Band41\_20MHz\_16QAM\_39750\_100RB#0**

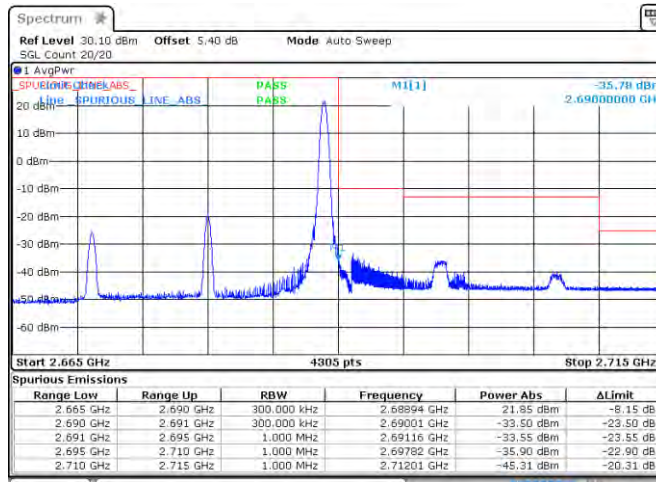


Date: 11.NOV.2019 01:59:44

**Band41\_20MHz\_16QAM\_41490\_1RB#99**

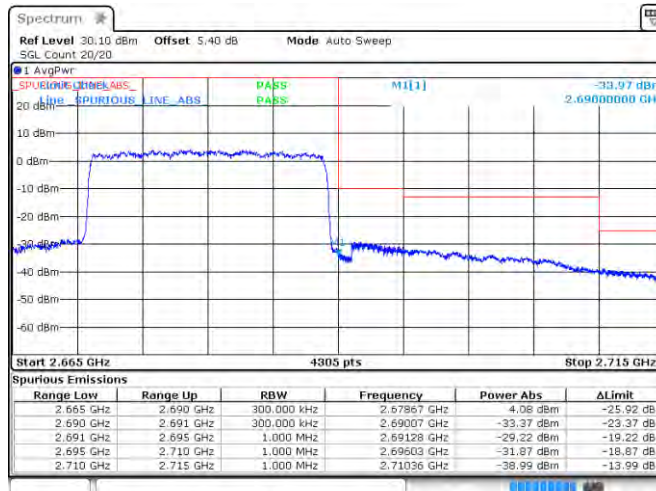


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Date: 11.NOV.2019 01:55:13

**Band41\_20MHz\_16QAM\_41490\_100RB#0**



Date: 11.NOV.2019 01:55:35



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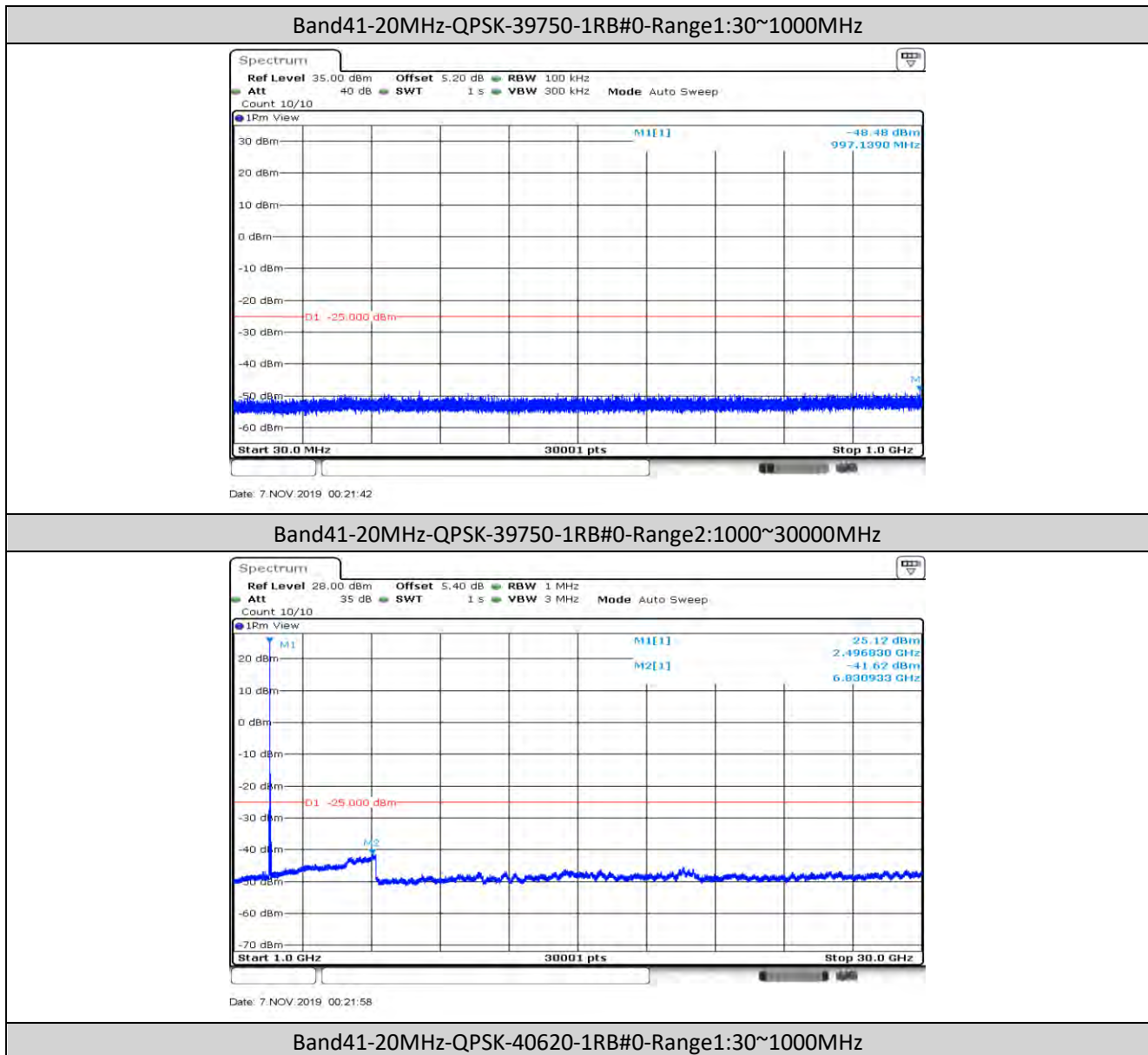


## 6. Spurious Emission at Antenna Terminal

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.

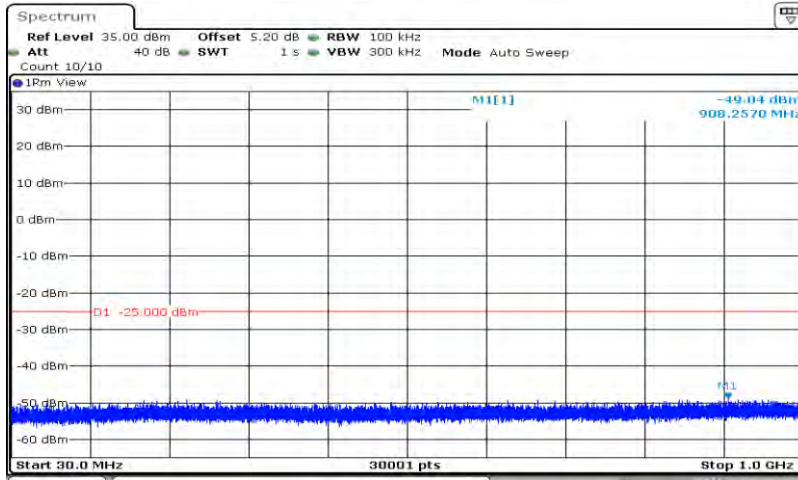
Remark2: only the worst case data displayed in this report.

### 6.1. Test Plots



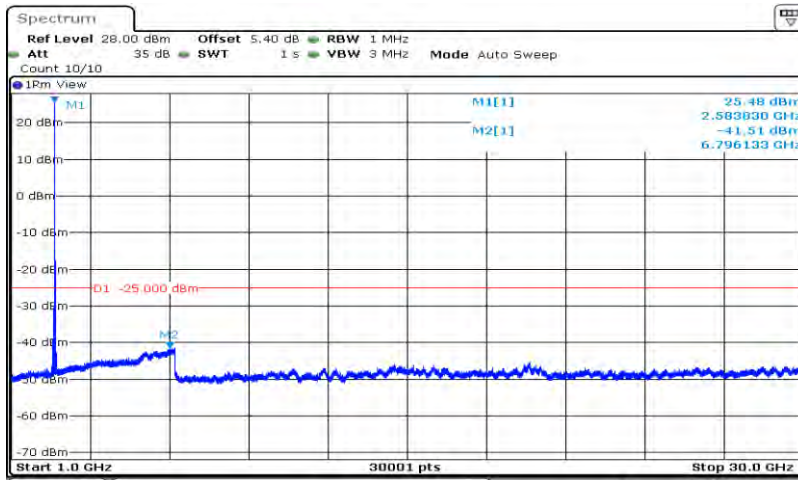
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Date: 7 NOV 2019 00:22:48

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

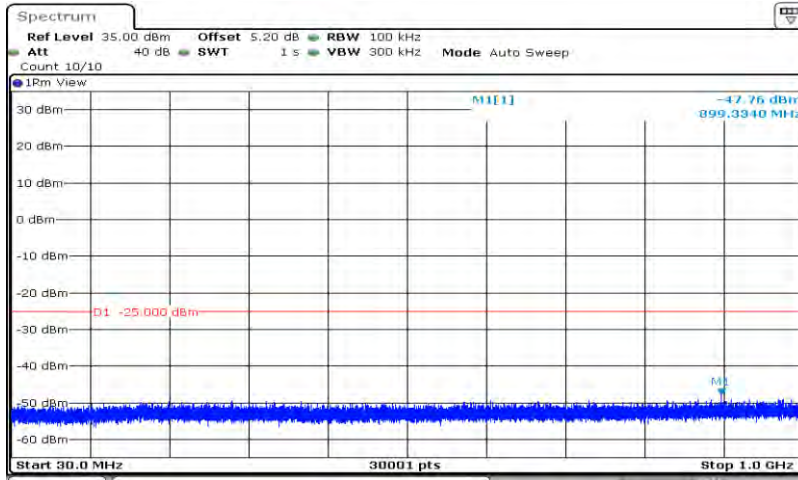


Date: 7 NOV 2019 00:23:05

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

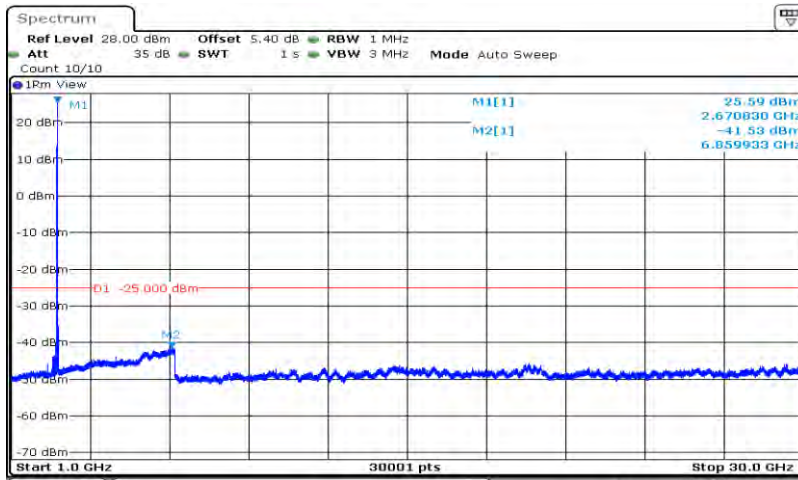


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Date: 7.NOV.2019 00:23:55

**Band41-20MHz-QPSK-41490-1RB#0-Range2:1000~30000MHz**



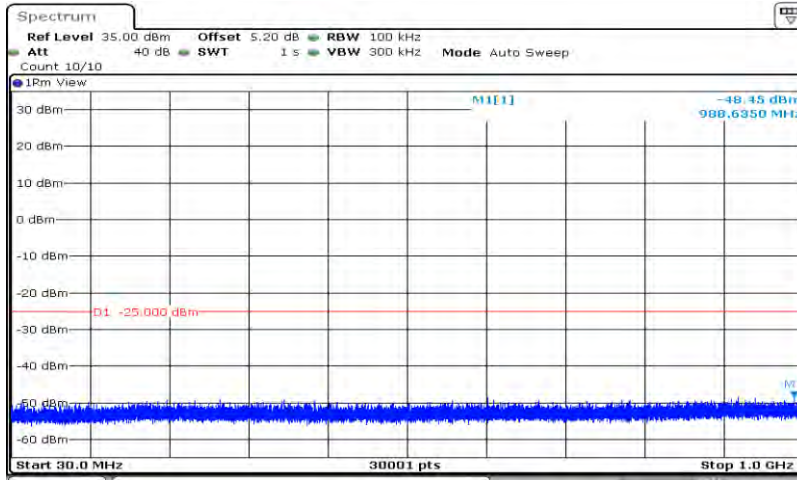
Date: 7.NOV.2019 00:24:11

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



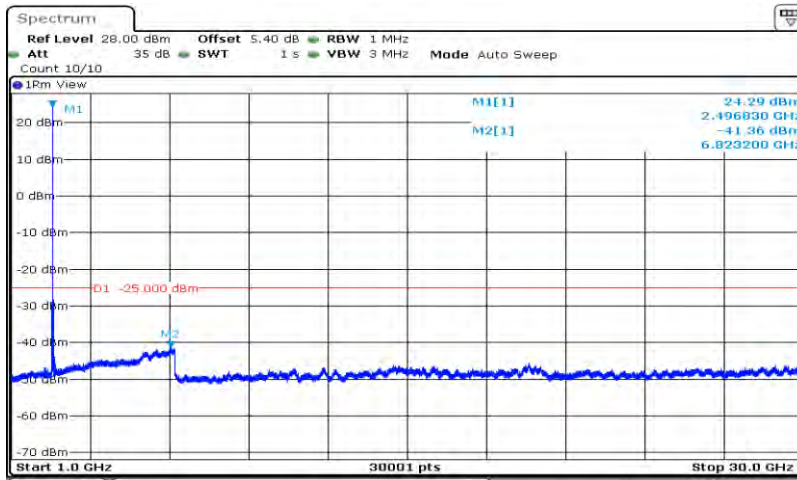
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Date: 7.NOV.2019 00:22:14

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

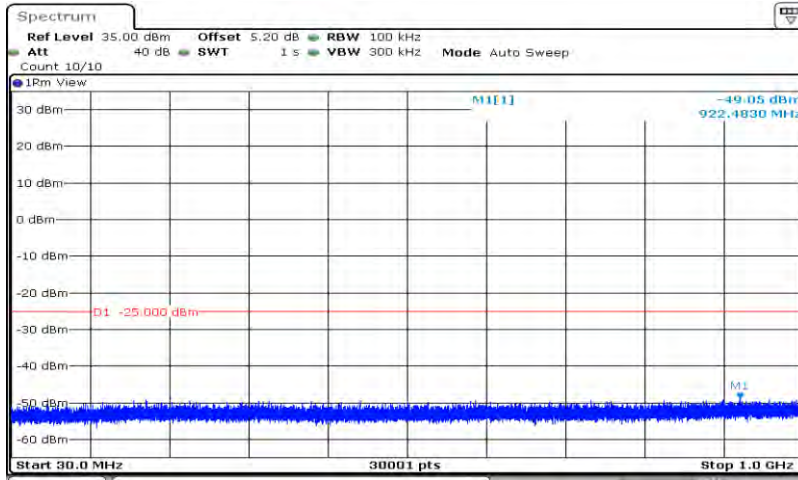


Date: 7.NOV.2019 00:22:30

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

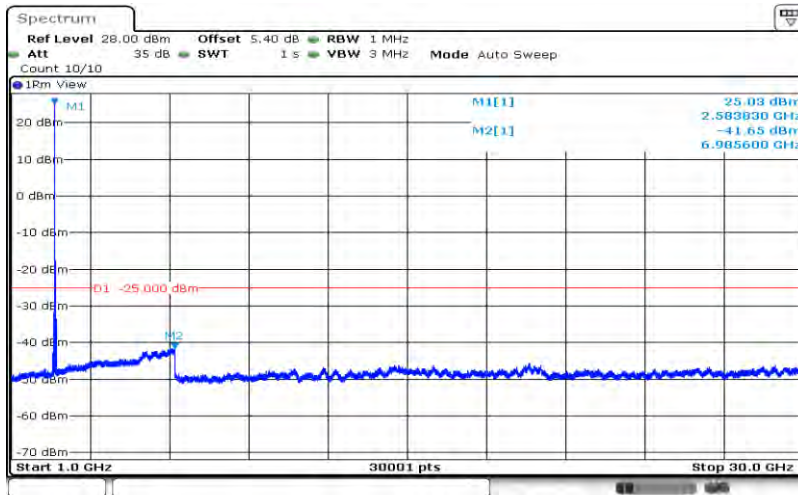


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Date: 7.NOV.2019 00:23:21

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

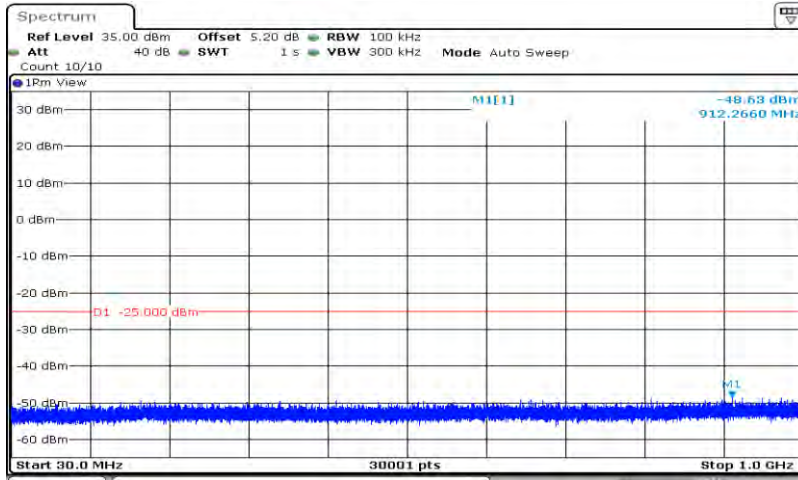


Date: 7.NOV.2019 00:23:37

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

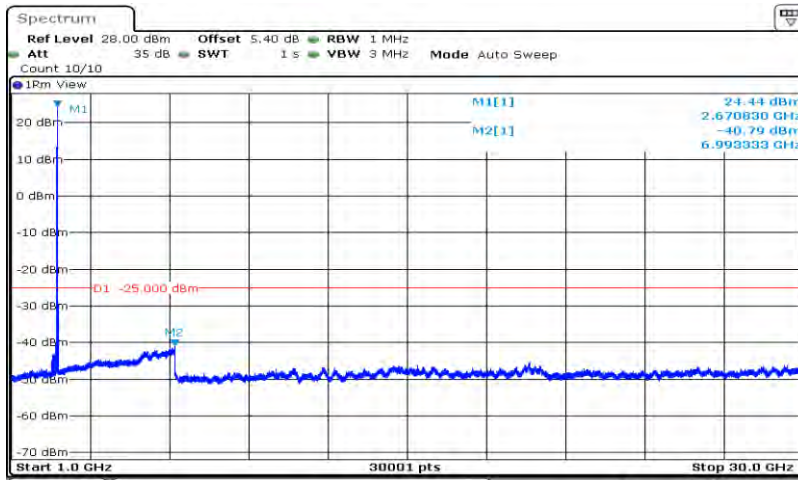


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Date: 7 NOV. 2019 00:24:27

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



Date: 7 NOV. 2019 00:24:43



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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)	Polarization
75.3013	-67.06	-25.00	42.06	Vertical
112.2601	-64.75	-25.00	39.75	Vertical
907.3604	-57.60	-25.00	32.60	Vertical
4994.0665	-32.22	-25.00	7.22	Vertical
10675.7559	-45.22	-25.00	20.22	Vertical
17986.9996	-32.66	-25.00	7.66	Vertical
44.8902	-63.68	-25.00	38.68	Horizontal
236.0383	-68.36	-25.00	43.36	Horizontal
907.0694	-56.63	-25.00	31.63	Horizontal
4994.0665	-36.67	-25.00	11.67	Horizontal
10645.2548	-46.79	-25.00	21.79	Horizontal
16404.9468	-37.06	-25.00	12.06	Horizontal

#### 7.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
76.8533	-66.78	-25.00	41.78	Vertical
111.7266	-65.15	-25.00	40.15	Vertical
899.0665	-53.32	-25.00	28.32	Vertical
5168.0723	-34.97	-25.00	9.97	Vertical
10336.2445	-43.30	-25.00	18.30	Vertical
17999.0000	-32.72	-25.00	7.72	Vertical
42.2711	-64.41	-25.00	39.41	Horizontal
228.6659	-68.88	-25.00	43.88	Horizontal
907.7484	-55.73	-25.00	30.73	Horizontal
5168.0723	-40.65	-25.00	15.65	Horizontal
10035.7345	-47.93	-25.00	22.93	Horizontal
16401.4467	-36.84	-25.00	11.84	Horizontal



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### 7.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
75.8348	-66.84	-25.00	41.84	Vertical
116.9163	-64.32	-25.00	39.32	Vertical
906.5843	-55.60	-25.00	30.60	Vertical
5342.0781	-40.57	-25.00	15.57	Vertical
10684.7562	-44.25	-25.00	19.25	Vertical
17963.4988	-33.04	-25.00	8.04	Vertical
44.1142	-64.65	-25.00	39.65	Horizontal
233.7102	-68.49	-25.00	43.49	Horizontal
898.5329	-60.96	-25.00	35.96	Horizontal
5342.0781	-46.24	-25.00	21.24	Horizontal
10421.2474	-46.74	-25.00	21.74	Horizontal
16385.9462	-37.02	-25.00	12.02	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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