



# 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#12	25.08	24.28	33	PASS
Band41	5MHz	QPSK	39675	1RB#0	24.82	24.02	33	PASS
Band41	5MHz	QPSK	39675	1RB#24	24.94	24.14	33	PASS
Band41	5MHz	QPSK	39675	12RB#13	24.15	23.35	33	PASS
Band41	5MHz	QPSK	39675	12RB#0	23.90	23.1	33	PASS
Band41	5MHz	QPSK	39675	12RB#6	23.89	23.09	33	PASS
Band41	5MHz	QPSK	39675	25RB#0	23.75	22.95	33	PASS
Band41	5MHz	QPSK	40620	1RB#0	24.87	24.07	33	PASS
Band41	5MHz	QPSK	40620	1RB#12	25.21	24.41	33	PASS
Band41	5MHz	QPSK	40620	1RB#24	24.75	23.95	33	PASS
Band41	5MHz	QPSK	40620	12RB#0	24.09	23.29	33	PASS
Band41	5MHz	QPSK	40620	12RB#6	24.08	23.28	33	PASS
Band41	5MHz	QPSK	40620	12RB#13	23.95	23.15	33	PASS
Band41	5MHz	QPSK	40620	25RB#0	23.93	23.13	33	PASS
Band41	5MHz	QPSK	41565	1RB#0	24.39	23.59	33	PASS
Band41	5MHz	QPSK	41565	1RB#12	24.56	23.76	33	PASS
Band41	5MHz	QPSK	41565	1RB#24	24.44	23.64	33	PASS
Band41	5MHz	QPSK	41565	12RB#0	23.58	22.78	33	PASS
Band41	5MHz	QPSK	41565	12RB#6	23.60	22.8	33	PASS
Band41	5MHz	QPSK	41565	12RB#13	23.48	22.68	33	PASS
Band41	5MHz	QPSK	41565	25RB#0	23.53	22.73	33	PASS
Band41	5MHz	16QAM	39675	1RB#12	23.61	22.81	33	PASS
Band41	5MHz	16QAM	39675	1RB#24	23.45	22.65	33	PASS
Band41	5MHz	16QAM	39675	1RB#0	23.58	22.78	33	PASS
Band41	5MHz	16QAM	39675	12RB#13	23.02	22.22	33	PASS
Band41	5MHz	16QAM	39675	12RB#0	23.06	22.26	33	PASS
Band41	5MHz	16QAM	39675	12RB#6	23.05	22.25	33	PASS



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Band41	5MHz	16QAM	39675	25RB#0	22.97	22.17	33	PASS
Band41	5MHz	16QAM	40620	1RB#0	23.55	22.75	33	PASS
Band41	5MHz	16QAM	40620	1RB#12	23.65	22.85	33	PASS
Band41	5MHz	16QAM	40620	1RB#24	23.52	22.72	33	PASS
Band41	5MHz	16QAM	40620	12RB#0	23.05	22.25	33	PASS
Band41	5MHz	16QAM	40620	12RB#6	23.00	22.2	33	PASS
Band41	5MHz	16QAM	40620	12RB#13	22.96	22.16	33	PASS
Band41	5MHz	16QAM	40620	25RB#0	23.11	22.31	33	PASS
Band41	5MHz	16QAM	41565	1RB#0	23.20	22.4	33	PASS
Band41	5MHz	16QAM	41565	1RB#12	23.32	22.52	33	PASS
Band41	5MHz	16QAM	41565	1RB#24	23.20	22.4	33	PASS
Band41	5MHz	16QAM	41565	12RB#13	22.66	21.86	33	PASS
Band41	5MHz	16QAM	41565	12RB#6	22.77	21.97	33	PASS
Band41	5MHz	16QAM	41565	12RB#0	22.83	22.03	33	PASS
Band41	5MHz	16QAM	41565	25RB#0	22.62	21.82	33	PASS
Band41	10MHz	QPSK	39700	1RB#49	24.95	24.15	33	PASS
Band41	10MHz	QPSK	39700	1RB#24	25.06	24.26	33	PASS
Band41	10MHz	QPSK	39700	1RB#0	25.20	24.4	33	PASS
Band41	10MHz	QPSK	39700	25RB#12	23.91	23.11	33	PASS
Band41	10MHz	QPSK	39700	25RB#0	23.93	23.13	33	PASS
Band41	10MHz	QPSK	39700	25RB#25	23.72	22.92	33	PASS
Band41	10MHz	QPSK	39700	50RB#0	23.77	22.97	33	PASS
Band41	10MHz	QPSK	40620	1RB#0	24.81	24.01	33	PASS
Band41	10MHz	QPSK	40620	1RB#49	24.78	23.98	33	PASS
Band41	10MHz	QPSK	40620	1RB#24	25.27	24.47	33	PASS
Band41	10MHz	QPSK	40620	25RB#25	23.93	23.13	33	PASS
Band41	10MHz	QPSK	40620	25RB#12	24.03	23.23	33	PASS
Band41	10MHz	QPSK	40620	25RB#0	24.23	23.43	33	PASS
Band41	10MHz	QPSK	40620	50RB#0	23.92	23.12	33	PASS
Band41	10MHz	QPSK	41540	1RB#24	24.88	24.08	33	PASS
Band41	10MHz	QPSK	41540	1RB#49	24.52	23.72	33	PASS
Band41	10MHz	QPSK	41540	1RB#0	24.54	23.74	33	PASS
Band41	10MHz	QPSK	41540	25RB#0	23.63	22.83	33	PASS



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Band41	10MHz	QPSK	41540	25RB#25	23.44	22.64	33	PASS
Band41	10MHz	QPSK	41540	25RB#12	23.55	22.75	33	PASS
Band41	10MHz	QPSK	41540	50RB#0	23.54	22.74	33	PASS
Band41	10MHz	16QAM	39700	1RB#49	23.47	22.67	33	PASS
Band41	10MHz	16QAM	39700	1RB#0	23.45	22.65	33	PASS
Band41	10MHz	16QAM	39700	1RB#24	23.77	22.97	33	PASS
Band41	10MHz	16QAM	39700	25RB#0	22.92	22.12	33	PASS
Band41	10MHz	16QAM	39700	25RB#25	23.04	22.24	33	PASS
Band41	10MHz	16QAM	39700	25RB#12	23.10	22.3	33	PASS
Band41	10MHz	16QAM	39700	50RB#0	22.88	22.08	33	PASS
Band41	10MHz	16QAM	40620	1RB#49	23.57	22.77	33	PASS
Band41	10MHz	16QAM	40620	1RB#24	23.90	23.1	33	PASS
Band41	10MHz	16QAM	40620	1RB#0	23.46	22.66	33	PASS
Band41	10MHz	16QAM	40620	25RB#12	23.18	22.38	33	PASS
Band41	10MHz	16QAM	40620	25RB#25	23.10	22.3	33	PASS
Band41	10MHz	16QAM	40620	25RB#0	23.09	22.29	33	PASS
Band41	10MHz	16QAM	40620	50RB#0	22.99	22.19	33	PASS
Band41	10MHz	16QAM	41540	1RB#24	23.37	22.57	33	PASS
Band41	10MHz	16QAM	41540	1RB#0	23.20	22.4	33	PASS
Band41	10MHz	16QAM	41540	1RB#49	23.15	22.35	33	PASS
Band41	10MHz	16QAM	41540	25RB#0	22.69	21.89	33	PASS
Band41	10MHz	16QAM	41540	25RB#12	22.79	21.99	33	PASS
Band41	10MHz	16QAM	41540	25RB#25	22.68	21.88	33	PASS
Band41	10MHz	16QAM	41540	50RB#0	22.63	21.83	33	PASS
Band41	15MHz	QPSK	39725	1RB#74	24.57	23.77	33	PASS
Band41	15MHz	QPSK	39725	1RB#0	24.83	24.03	33	PASS
Band41	15MHz	QPSK	39725	1RB#38	24.78	23.98	33	PASS
Band41	15MHz	QPSK	39725	36RB#18	23.89	23.09	33	PASS
Band41	15MHz	QPSK	39725	36RB#39	23.68	22.88	33	PASS
Band41	15MHz	QPSK	39725	36RB#0	23.79	22.99	33	PASS
Band41	15MHz	QPSK	39725	75RB#0	23.71	22.91	33	PASS
Band41	15MHz	QPSK	40620	1RB#0	24.73	23.93	33	PASS
Band41	15MHz	QPSK	40620	1RB#38	25.01	24.21	33	PASS



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Band41	15MHz	QPSK	40620	1RB#74	24.68	23.88	33	PASS
Band41	15MHz	QPSK	40620	36RB#39	23.92	23.12	33	PASS
Band41	15MHz	QPSK	40620	36RB#18	24.05	23.25	33	PASS
Band41	15MHz	QPSK	40620	36RB#0	24.02	23.22	33	PASS
Band41	15MHz	QPSK	40620	75RB#0	23.94	23.14	33	PASS
Band41	15MHz	QPSK	41515	1RB#74	24.40	23.6	33	PASS
Band41	15MHz	QPSK	41515	1RB#38	24.78	23.98	33	PASS
Band41	15MHz	QPSK	41515	1RB#0	24.38	23.58	33	PASS
Band41	15MHz	QPSK	41515	36RB#0	23.62	22.82	33	PASS
Band41	15MHz	QPSK	41515	36RB#39	23.64	22.84	33	PASS
Band41	15MHz	QPSK	41515	36RB#18	24.02	23.22	33	PASS
Band41	15MHz	QPSK	41515	75RB#0	23.54	22.74	33	PASS
Band41	15MHz	16QAM	39725	1RB#0	23.44	22.64	33	PASS
Band41	15MHz	16QAM	39725	1RB#74	23.32	22.52	33	PASS
Band41	15MHz	16QAM	39725	1RB#38	23.41	22.61	33	PASS
Band41	15MHz	16QAM	39725	36RB#18	22.93	22.13	33	PASS
Band41	15MHz	16QAM	39725	36RB#0	23.02	22.22	33	PASS
Band41	15MHz	16QAM	39725	36RB#39	23.00	22.2	33	PASS
Band41	15MHz	16QAM	39725	75RB#0	22.75	21.95	33	PASS
Band41	15MHz	16QAM	40620	1RB#74	23.54	22.74	33	PASS
Band41	15MHz	16QAM	40620	1RB#38	23.58	22.78	33	PASS
Band41	15MHz	16QAM	40620	1RB#0	23.48	22.68	33	PASS
Band41	15MHz	16QAM	40620	36RB#18	22.92	22.12	33	PASS
Band41	15MHz	16QAM	40620	36RB#39	23.11	22.31	33	PASS
Band41	15MHz	16QAM	40620	36RB#0	23.11	22.31	33	PASS
Band41	15MHz	16QAM	40620	75RB#0	22.99	22.19	33	PASS
Band41	15MHz	16QAM	41515	1RB#38	23.35	22.55	33	PASS
Band41	15MHz	16QAM	41515	1RB#0	23.16	22.36	33	PASS
Band41	15MHz	16QAM	41515	1RB#74	23.11	22.31	33	PASS
Band41	15MHz	16QAM	41515	36RB#0	22.89	22.09	33	PASS
Band41	15MHz	16QAM	41515	36RB#18	22.66	21.86	33	PASS
Band41	15MHz	16QAM	41515	36RB#39	22.70	21.9	33	PASS
Band41	15MHz	16QAM	41515	75RB#0	22.67	21.87	33	PASS



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Band41	20MHz	QPSK	39750	1RB#99	24.46	23.66	33	PASS
Band41	20MHz	QPSK	39750	1RB#0	24.78	23.98	33	PASS
Band41	20MHz	QPSK	39750	50RB#0	23.70	22.9	33	PASS
Band41	20MHz	QPSK	39750	50RB#25	23.84	23.04	33	PASS
Band41	20MHz	QPSK	39750	50RB#50	23.59	22.79	33	PASS
Band41	20MHz	QPSK	39750	100RB#0	23.57	22.77	33	PASS
Band41	20MHz	QPSK	40620	1RB#99	24.60	23.8	33	PASS
Band41	20MHz	QPSK	40620	1RB#49	25.13	24.33	33	PASS
Band41	20MHz	QPSK	40620	1RB#0	24.64	23.84	33	PASS
Band41	20MHz	QPSK	40620	50RB#25	24.05	23.25	33	PASS
Band41	20MHz	QPSK	40620	50RB#0	24.06	23.26	33	PASS
Band41	20MHz	QPSK	40620	50RB#50	23.98	23.18	33	PASS
Band41	20MHz	QPSK	40620	100RB#0	23.87	23.07	33	PASS
Band41	20MHz	QPSK	41490	1RB#0	24.48	23.68	33	PASS
Band41	20MHz	QPSK	41490	1RB#99	24.33	23.53	33	PASS
Band41	20MHz	QPSK	41490	1RB#49	24.69	23.89	33	PASS
Band41	20MHz	QPSK	41490	50RB#0	23.55	22.75	33	PASS
Band41	20MHz	QPSK	41490	50RB#25	23.64	22.84	33	PASS
Band41	20MHz	QPSK	41490	50RB#50	23.47	22.67	33	PASS
Band41	20MHz	QPSK	41490	100RB#0	23.58	22.78	33	PASS
Band41	20MHz	16QAM	39750	1RB#0	23.28	22.48	33	PASS
Band41	20MHz	16QAM	39750	1RB#49	23.61	22.81	33	PASS
Band41	20MHz	16QAM	39750	1RB#99	23.09	22.29	33	PASS
Band41	20MHz	16QAM	39750	50RB#50	22.79	21.99	33	PASS
Band41	20MHz	16QAM	39750	50RB#25	22.76	21.96	33	PASS
Band41	20MHz	16QAM	39750	50RB#0	22.79	21.99	33	PASS
Band41	20MHz	16QAM	39750	100RB#0	22.72	21.92	33	PASS
Band41	20MHz	16QAM	40620	1RB#99	23.34	22.54	33	PASS
Band41	20MHz	16QAM	40620	1RB#49	23.90	23.1	33	PASS
Band41	20MHz	16QAM	40620	1RB#0	23.38	22.58	33	PASS
Band41	20MHz	16QAM	40620	50RB#25	23.26	22.46	33	PASS
Band41	20MHz	16QAM	40620	50RB#50	22.96	22.16	33	PASS



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Band41	20MHz	16QAM	40620	50RB#0	22.96	22.16	33	PASS
Band41	20MHz	16QAM	40620	100RB#0	22.96	22.16	33	PASS
Band41	20MHz	16QAM	41490	1RB#49	23.43	22.63	33	PASS
Band41	20MHz	16QAM	41490	1RB#0	23.17	22.37	33	PASS
Band41	20MHz	16QAM	41490	1RB#99	22.97	22.17	33	PASS
Band41	20MHz	16QAM	41490	50RB#0	22.54	21.74	33	PASS
Band41	20MHz	16QAM	41490	50RB#25	22.57	21.77	33	PASS
Band41	20MHz	16QAM	41490	50RB#50	22.54	21.74	33	PASS
Band41	20MHz	16QAM	41490	100RB#0	22.93	22.13	33	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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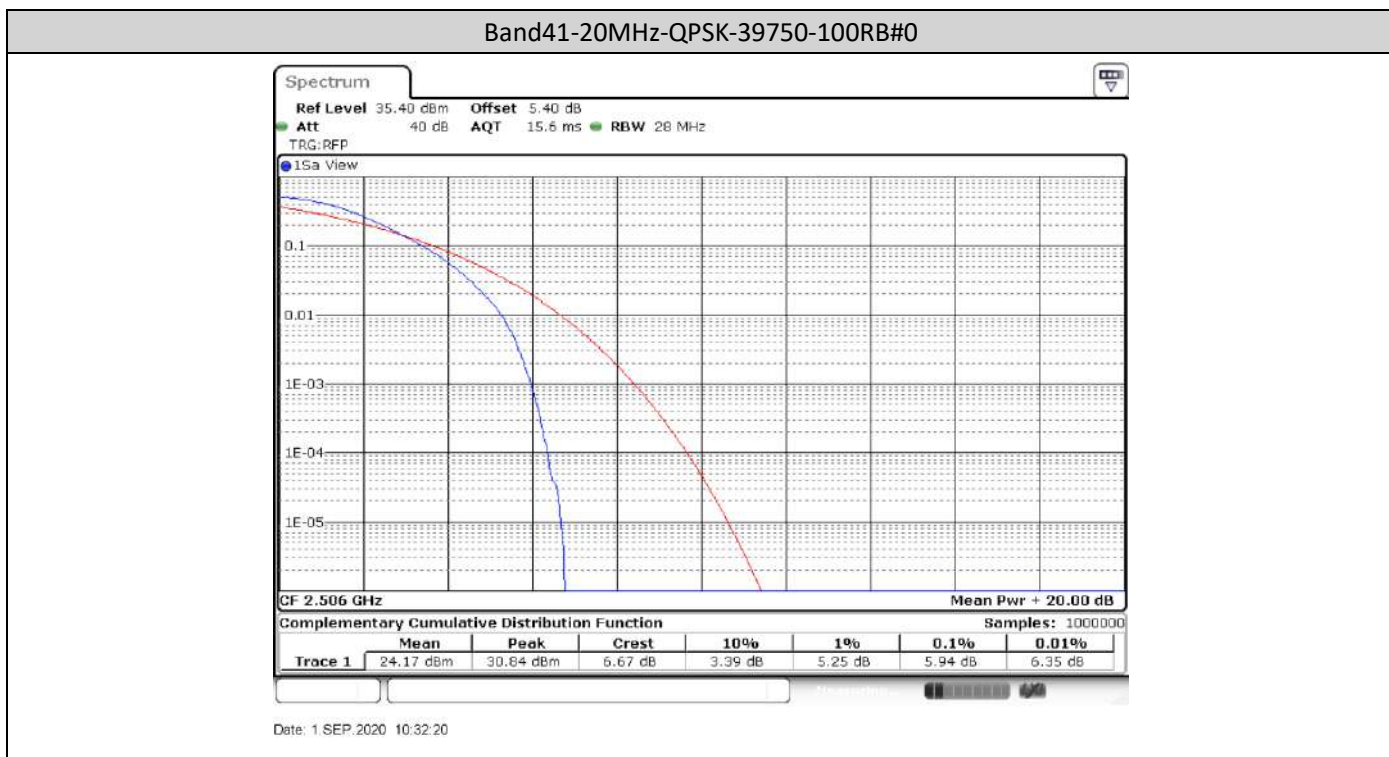


## 2. Peak-to-Average Ratio (CCDF)

### 2.1. Test Result

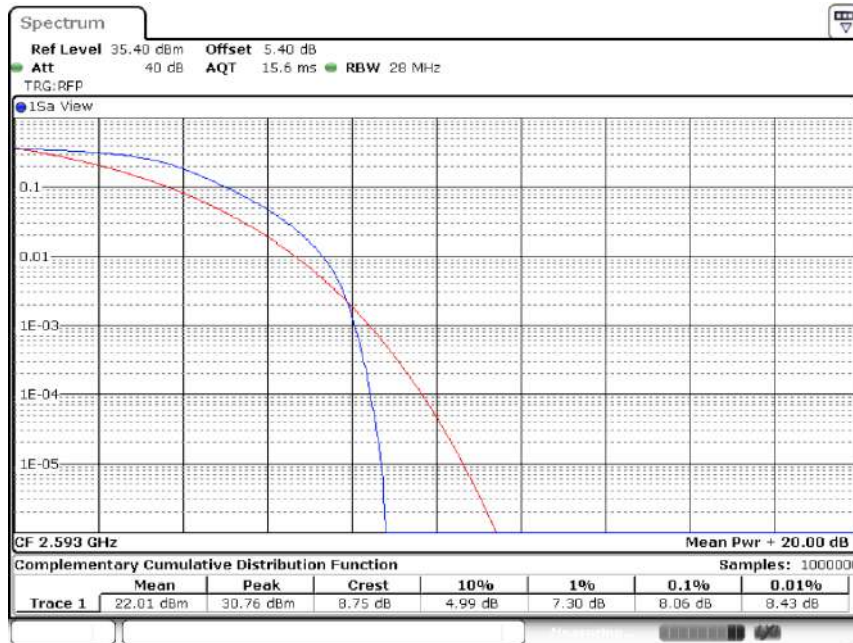
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band41	20MHz	QPSK	39750	100RB#0	5.94	13	PASS
Band41	20MHz	QPSK	40620	100RB#0	8.06	13	PASS
Band41	20MHz	QPSK	41490	100RB#0	8.03	13	PASS
Band41	20MHz	16QAM	39750	100RB#0	9.04	13	PASS
Band41	20MHz	16QAM	40620	100RB#0	8.90	13	PASS
Band41	20MHz	16QAM	41490	100RB#0	8.99	13	PASS

### 2.2. Test Plots



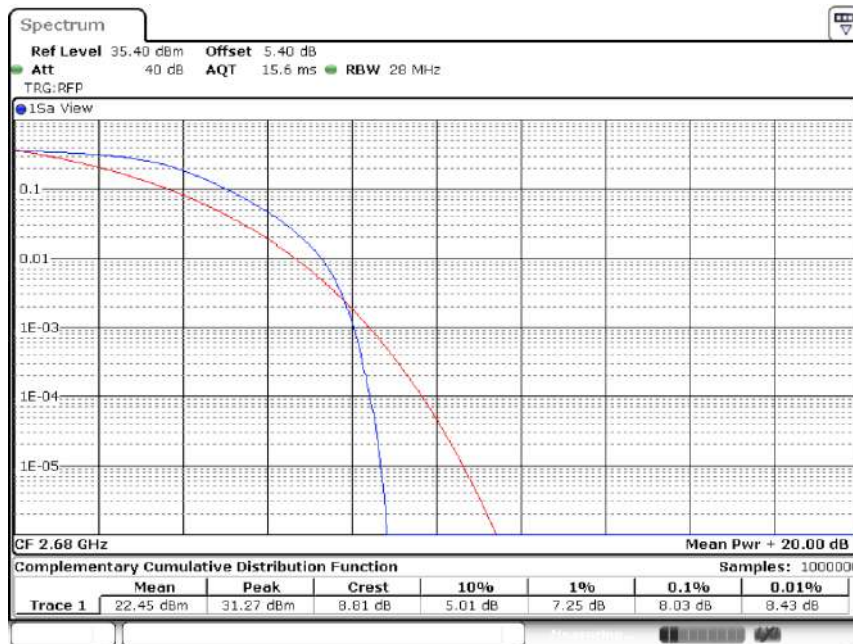
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**Band41-20MHz-QPSK-40620-100RB#0**



Date: 1 SEP.2020 10:32:42

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



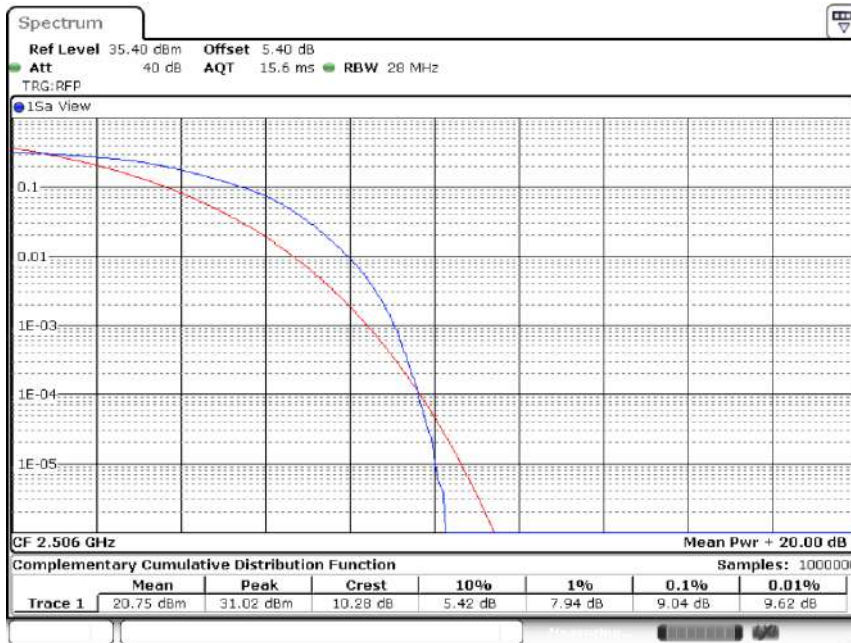
Date: 1 SEP.2020 10:33:04



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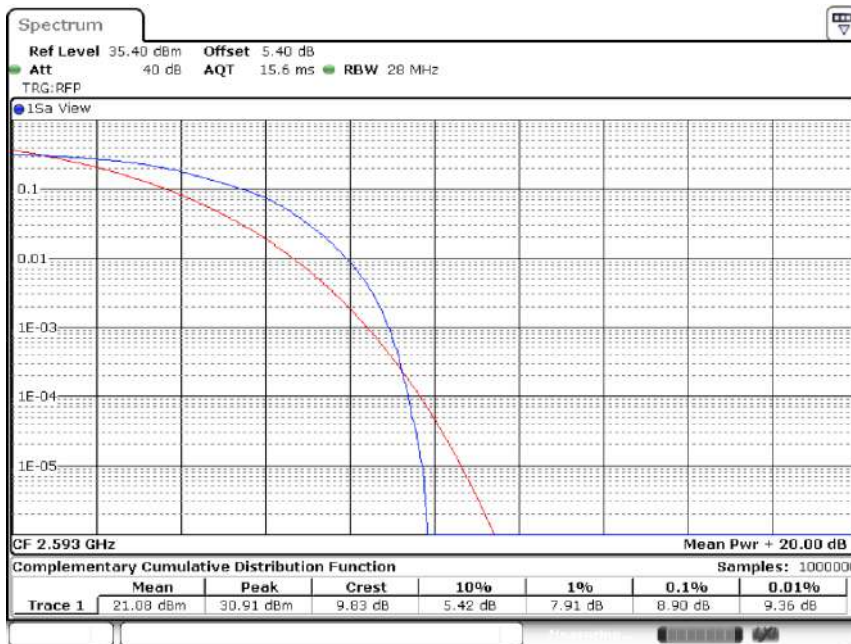


**Band41-20MHz-16QAM-39750-100RB#0**



Date: 1 SEP.2020 10:32:31

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

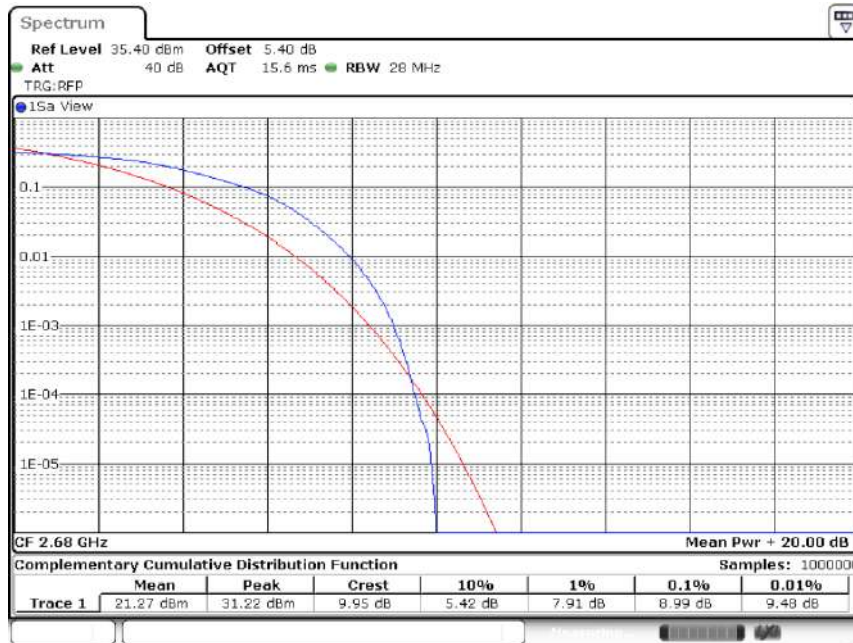


Date: 1 SEP.2020 10:32:53



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



Date: 1 SEP.2020 10:33:15



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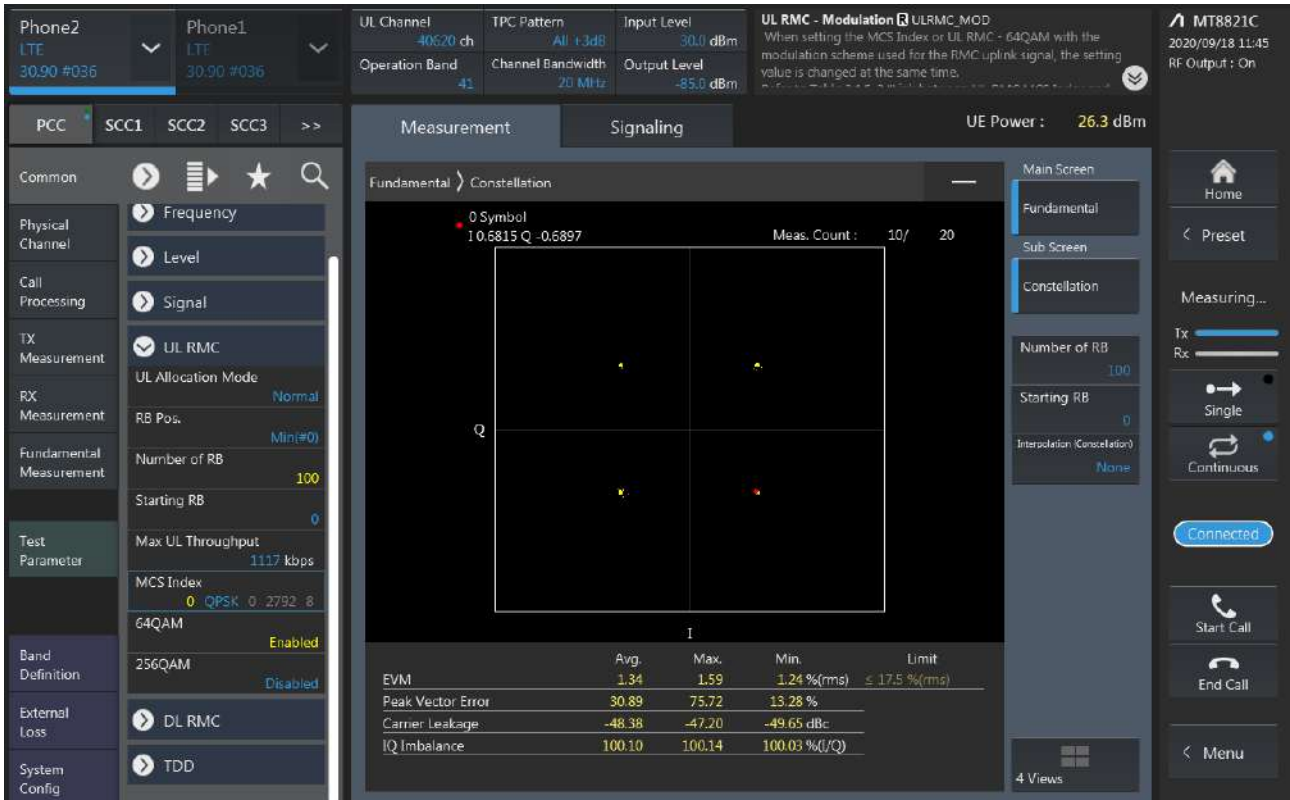
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### 3. Modulation Characteristics

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

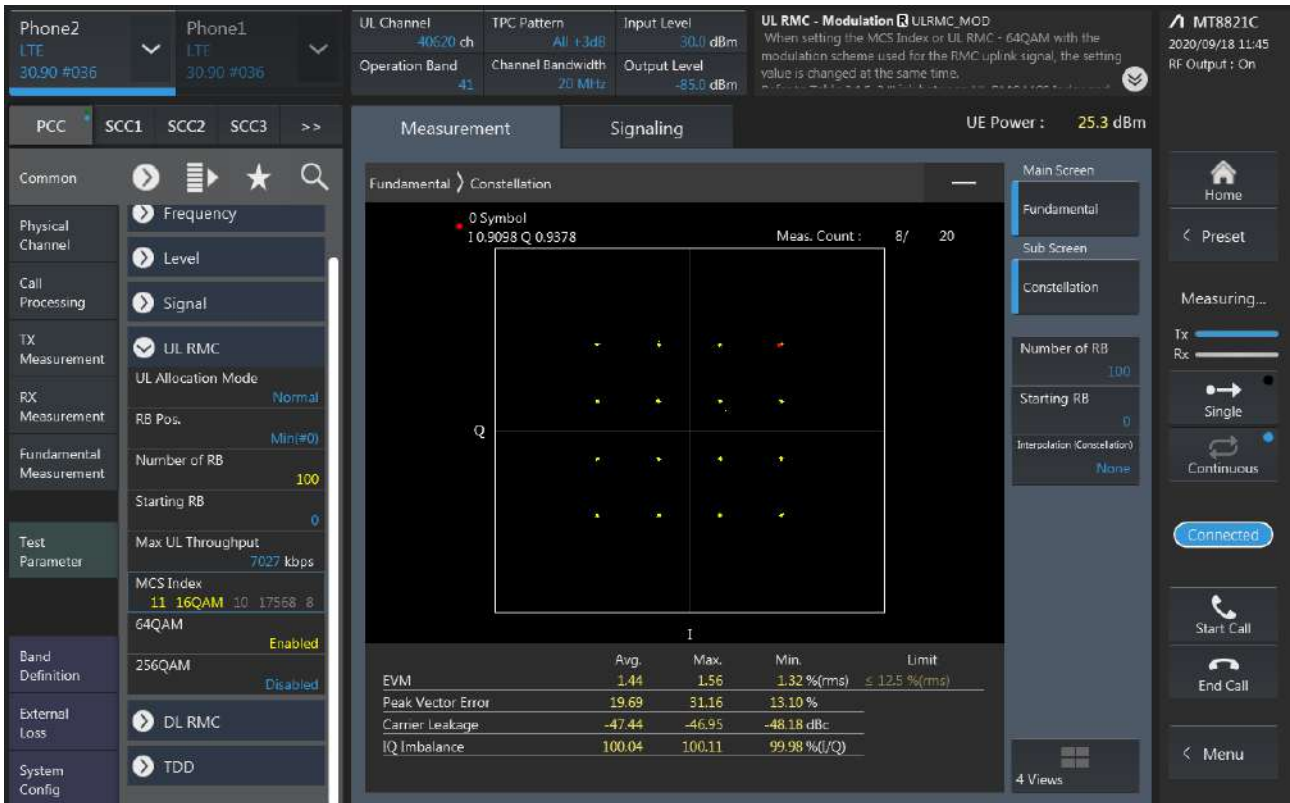
##### 3.1.1. Test Channel = MCH



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

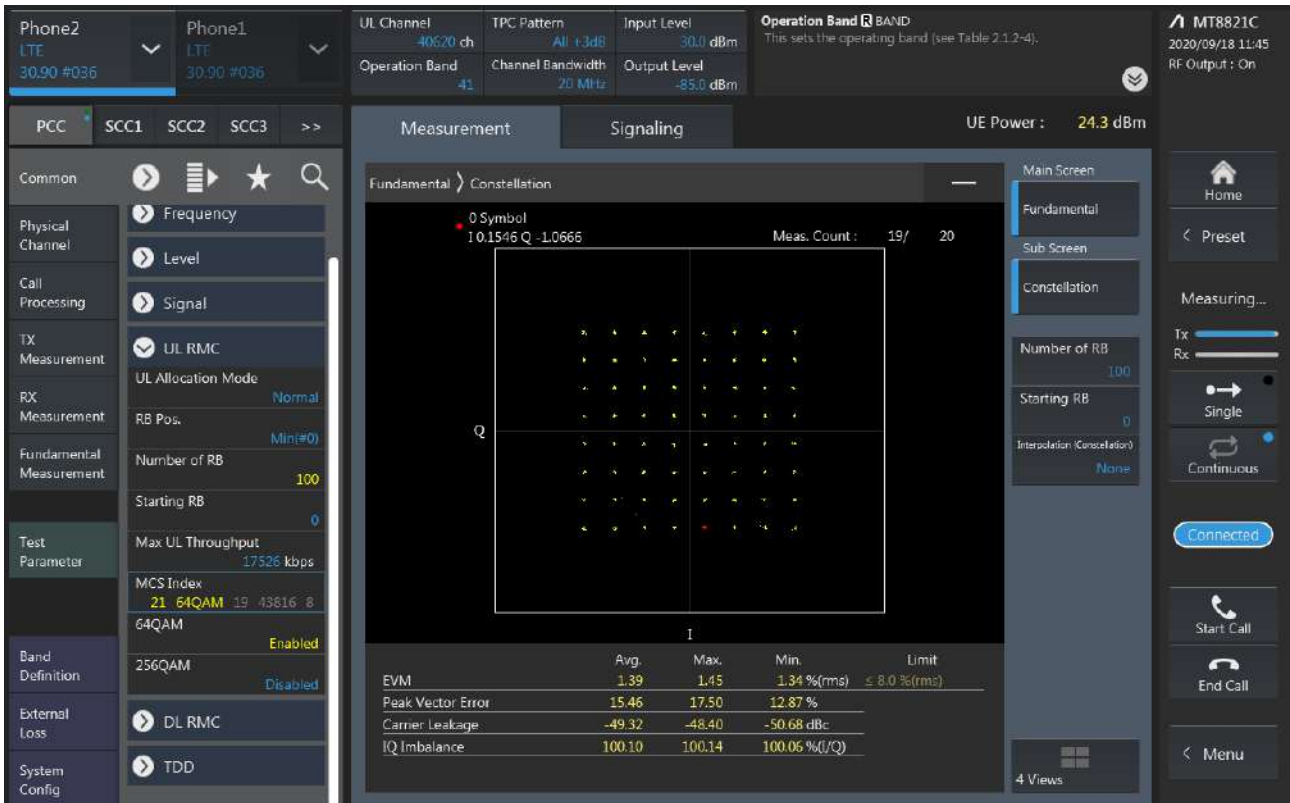
#### 3.2.1. Test Channel = MCH



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### 3.3. Test Mode = LTE /TM3 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	4.476	4.980	PASS
Band41	5MHz	QPSK	40620	25RB#0	4.466	5.000	PASS
Band41	5MHz	QPSK	41565	25RB#0	4.476	4.970	PASS
Band41	5MHz	16QAM	39675	25RB#0	4.496	4.960	PASS
Band41	5MHz	16QAM	40620	25RB#0	4.496	4.980	PASS
Band41	5MHz	16QAM	41565	25RB#0	4.505	4.980	PASS
Band41	10MHz	QPSK	39700	50RB#0	8.891	9.660	PASS
Band41	10MHz	QPSK	40620	50RB#0	8.891	9.660	PASS
Band41	10MHz	QPSK	41540	50RB#0	8.911	9.660	PASS
Band41	10MHz	16QAM	39700	50RB#0	8.911	9.640	PASS
Band41	10MHz	16QAM	40620	50RB#0	8.911	9.640	PASS
Band41	10MHz	16QAM	41540	50RB#0	8.911	9.660	PASS
Band41	15MHz	QPSK	39725	75RB#0	13.487	16.380	PASS
Band41	15MHz	QPSK	40620	75RB#0	13.516	16.380	PASS
Band41	15MHz	QPSK	41515	75RB#0	13.516	16.560	PASS
Band41	15MHz	16QAM	39725	75RB#0	13.487	15.210	PASS
Band41	15MHz	16QAM	40620	75RB#0	13.457	15.180	PASS
Band41	15MHz	16QAM	41515	75RB#0	13.457	15.180	PASS
Band41	20MHz	QPSK	39750	100RB#0	17.862	19.840	PASS
Band41	20MHz	QPSK	40620	100RB#0	17.902	19.840	PASS
Band41	20MHz	QPSK	41490	100RB#0	17.902	19.960	PASS
Band41	20MHz	16QAM	39750	100RB#0	17.862	19.320	PASS
Band41	20MHz	16QAM	40620	100RB#0	17.862	19.320	PASS
Band41	20MHz	16QAM	41490	100RB#0	17.822	19.360	PASS



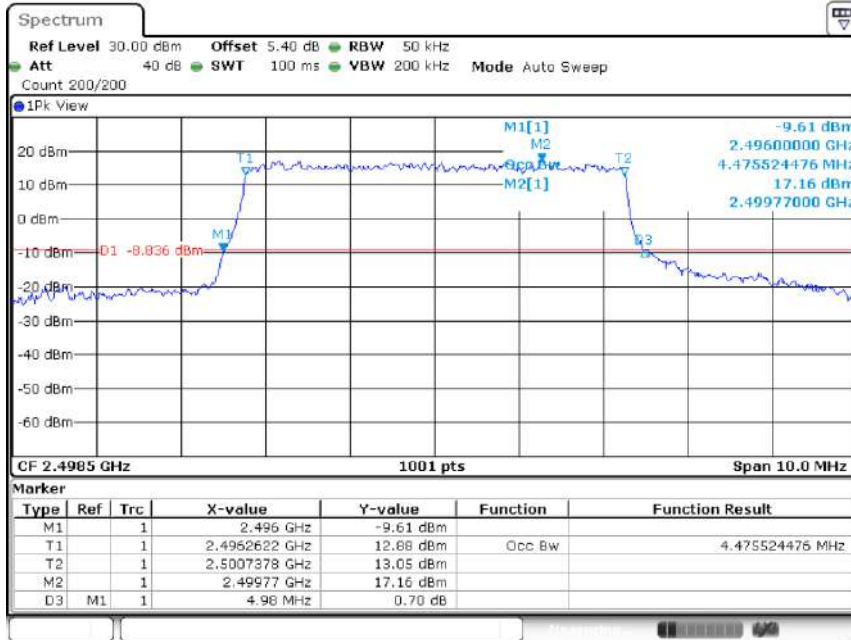
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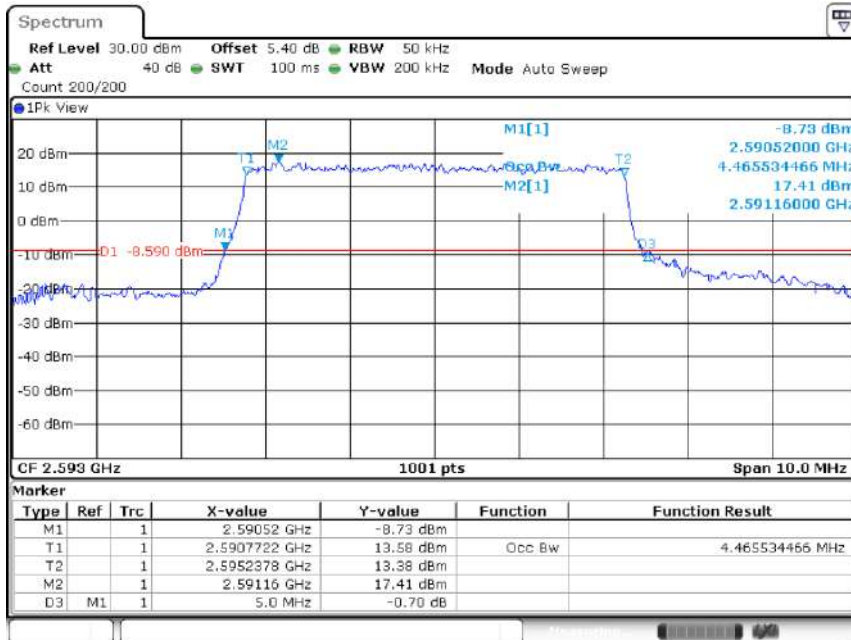
### 4.2. Test Plots

Band41-5MHz-QPSK-39675-25RB#0-4.476



Date: 1 SEP.2020 09:58:09

Band41-5MHz-QPSK-40620-25RB#0-4.466

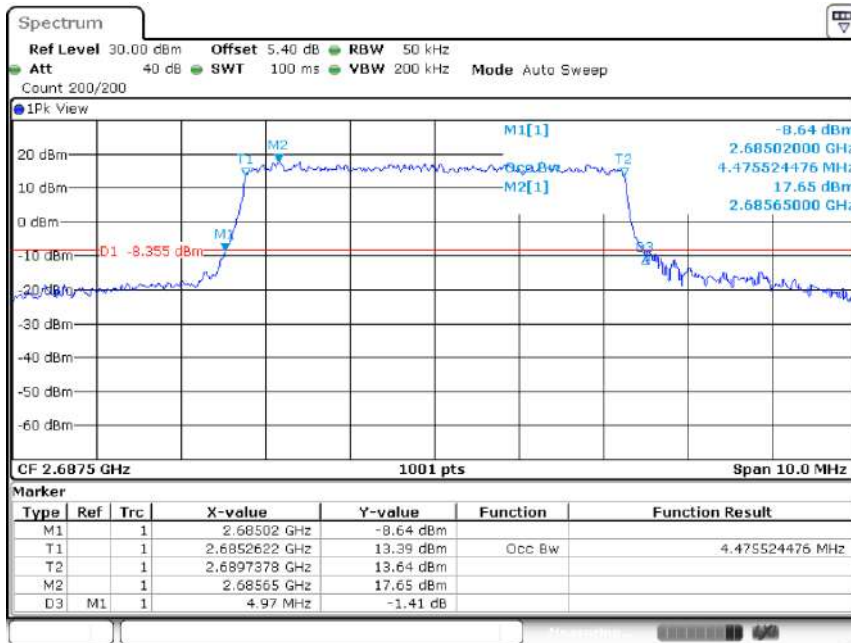


Date: 1 SEP.2020 10:00:00



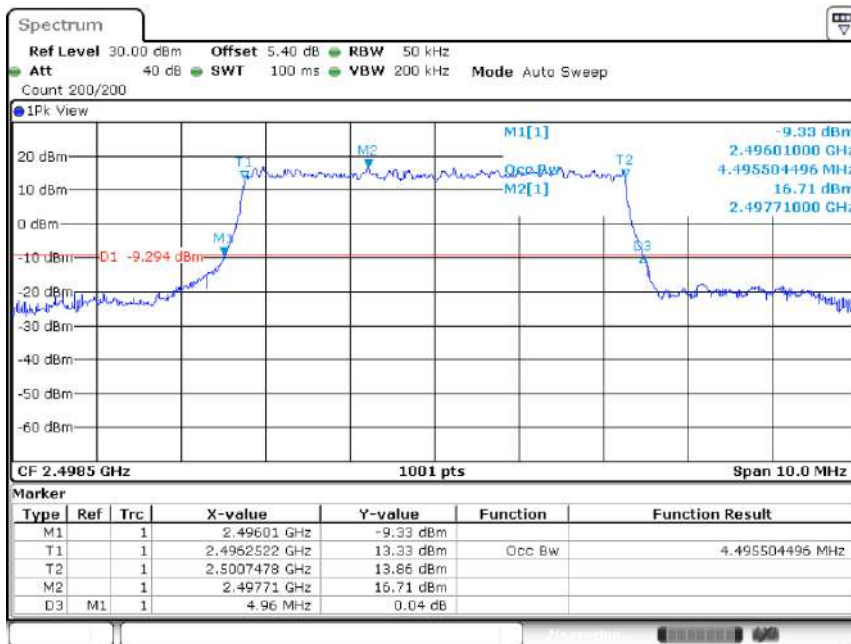
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**Band41-5MHz-QPSK-41565-25RB#0-4.476**



Date: 1 SEP.2020 10:01:08

**Band41-5MHz-16QAM-39675-25RB#0-4.496**

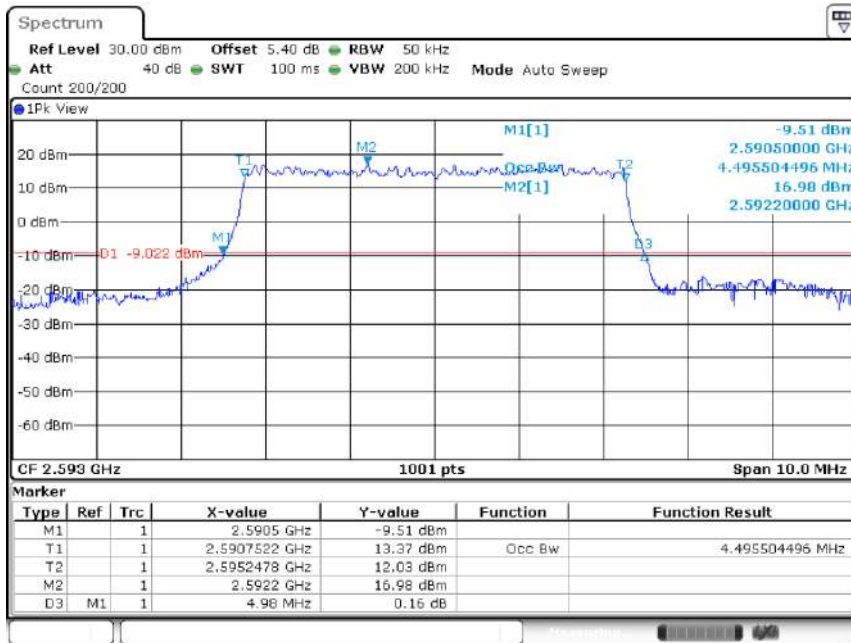


Date: 1 SEP.2020 09:58:42



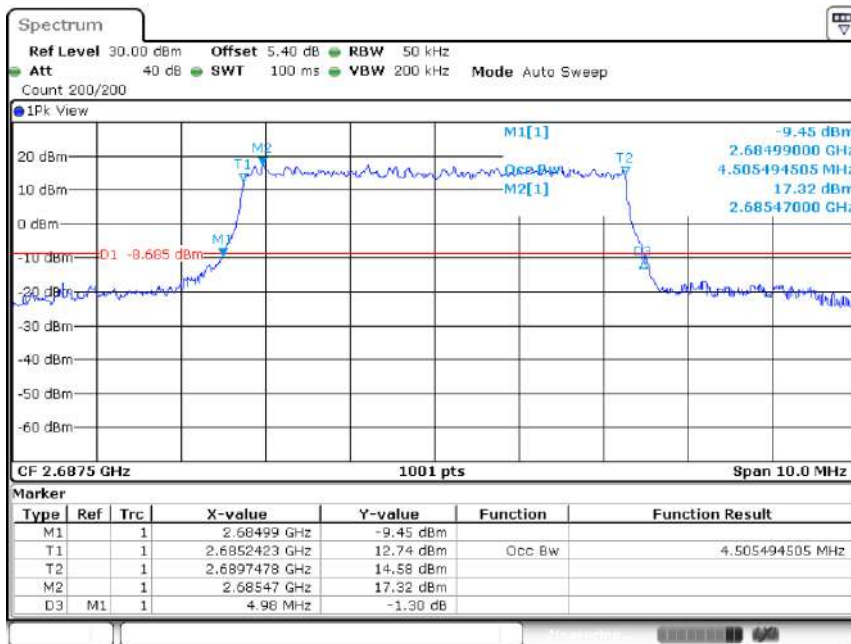
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**Band41-5MHz-16QAM-40620-25RB#0-4.496**



Date: 1 SEP.2020 10:00:35

**Band41-5MHz-16QAM-41565-25RB#0-4.505**



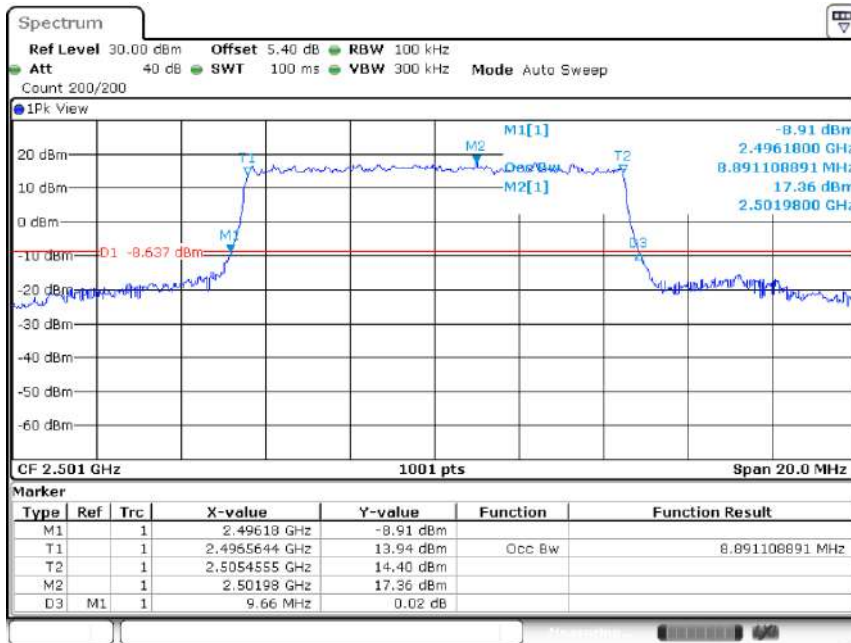
Date: 1 SEP.2020 10:01:41



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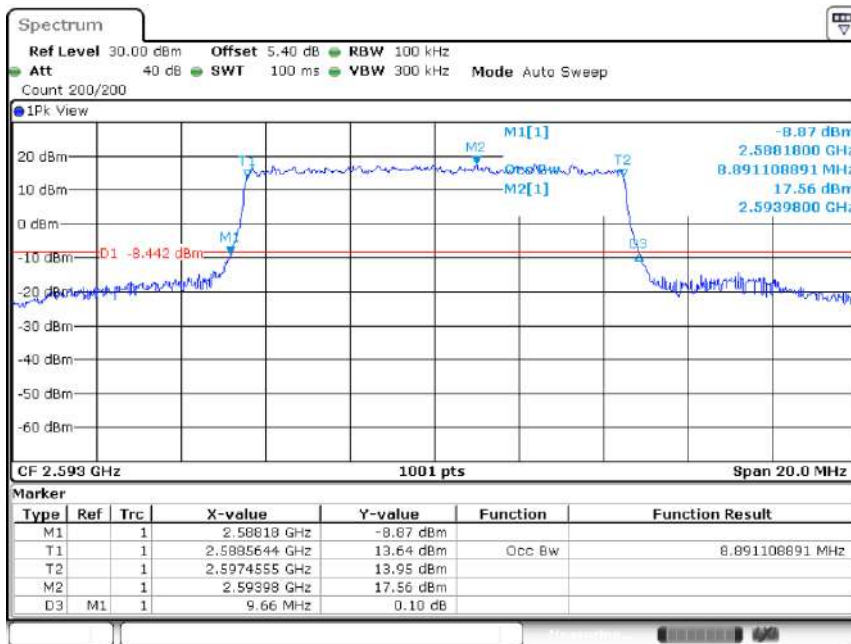


**Band41-10MHz-QPSK-39700-50RB#0-8.891**



Date: 1 SEP.2020 10:02:19

**Band41-10MHz-QPSK-40620-50RB#0-8.891**



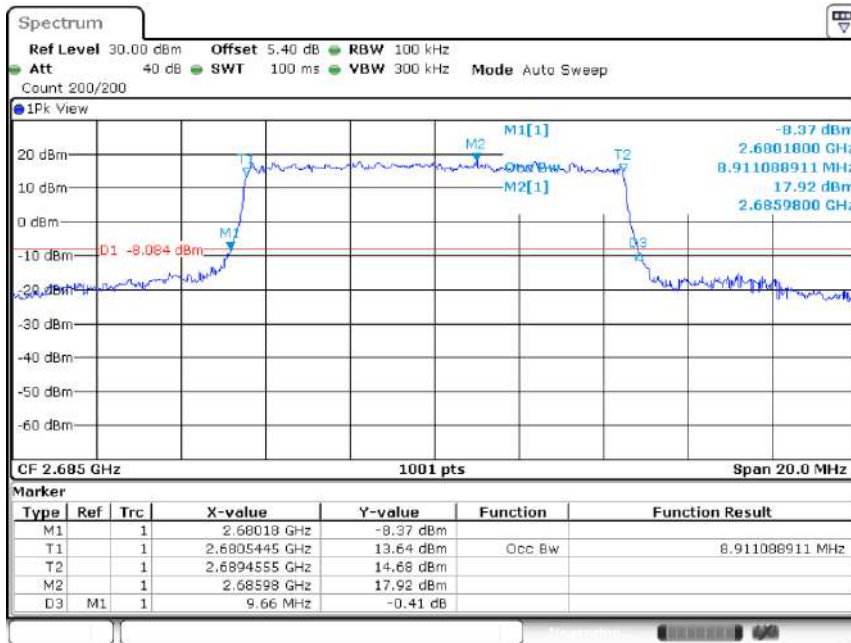
Date: 1 SEP.2020 10:03:24



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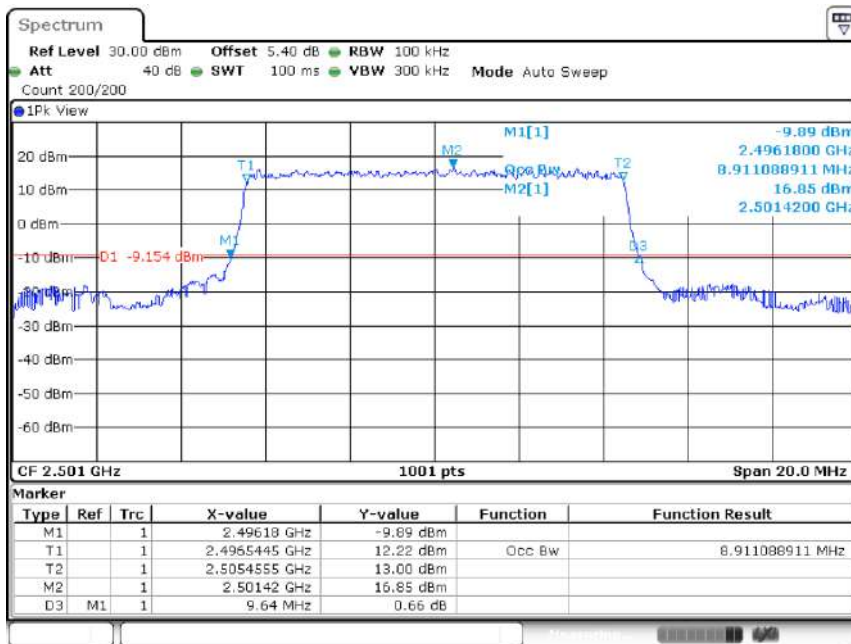


**Band41-10MHz-QPSK-41540-50RB#0-8.911**



Date: 1 SEP.2020 10:04:30

**Band41-10MHz-16QAM-39700-50RB#0-8.911**

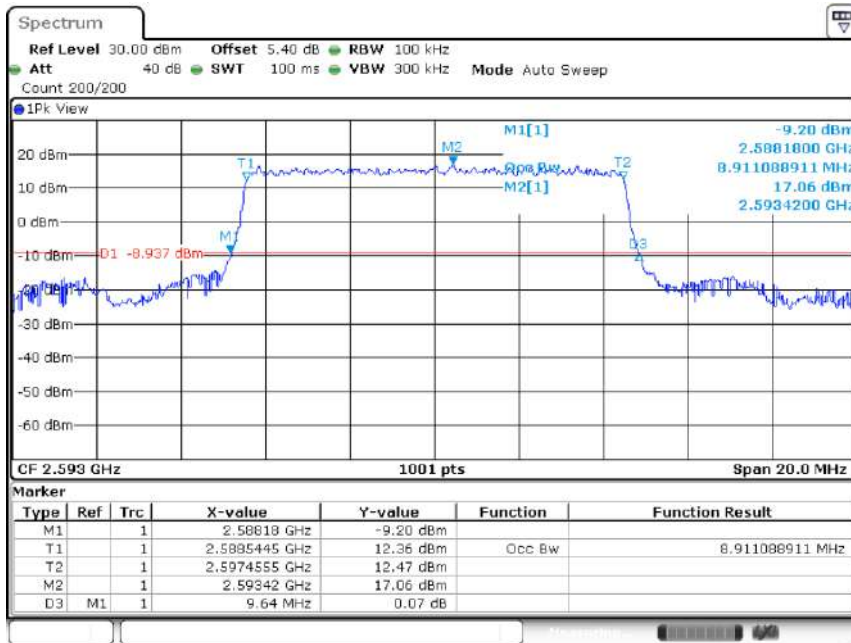


Date: 1 SEP.2020 10:02:51



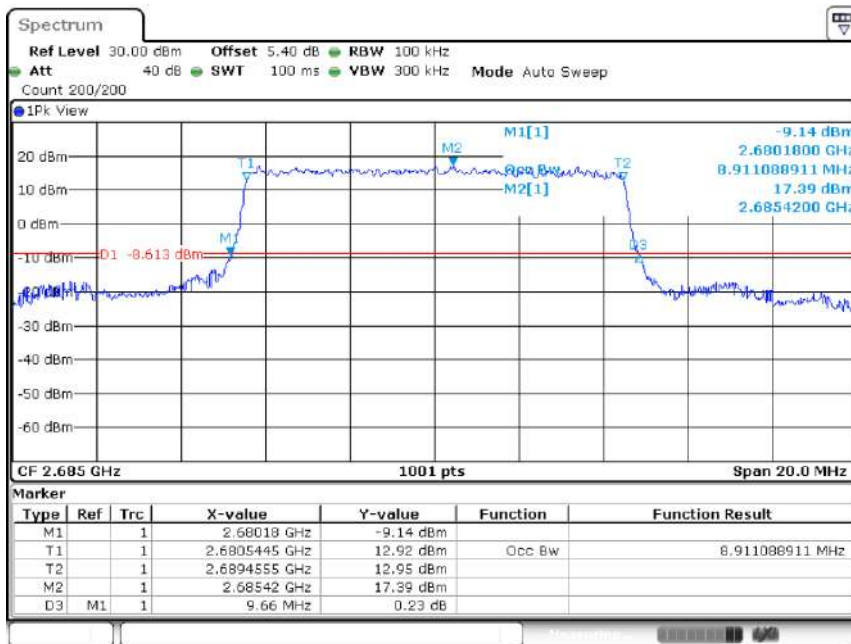
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**Band41-10MHz-16QAM-40620-50RB#0-8.911**



Date: 1 SEP.2020 10:03:57

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

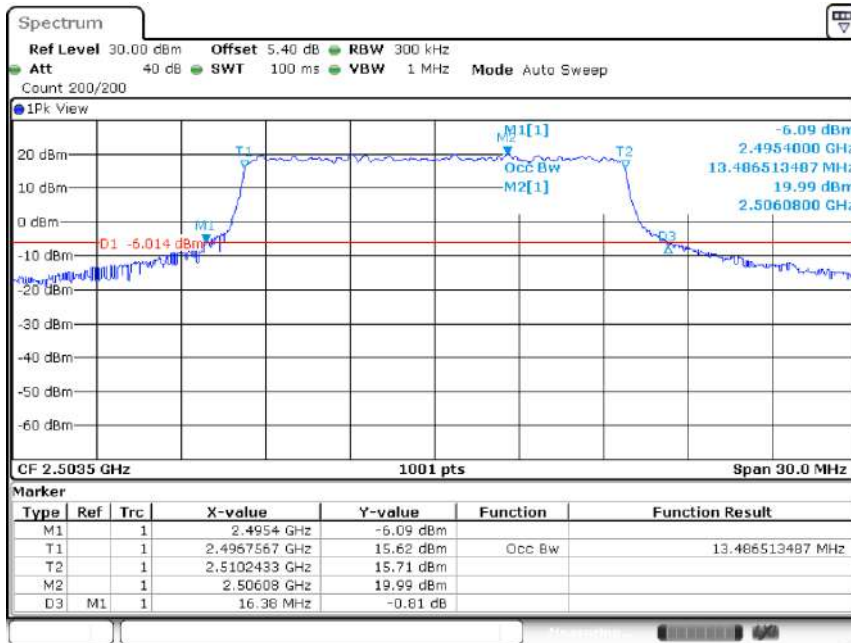


Date: 1 SEP.2020 10:05:02



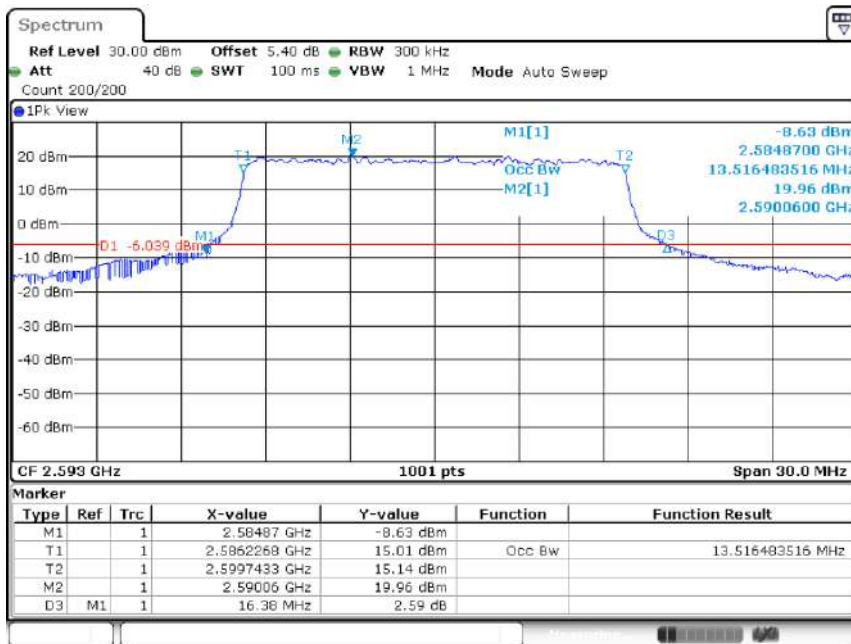
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**Band41-15MHz-QPSK-39725-75RB#0-13.487**



Date: 3.SEP.2020 11:51:22

**Band41-15MHz-QPSK-40620-75RB#0-13.516**



Date: 3.SEP.2020 11:53:47

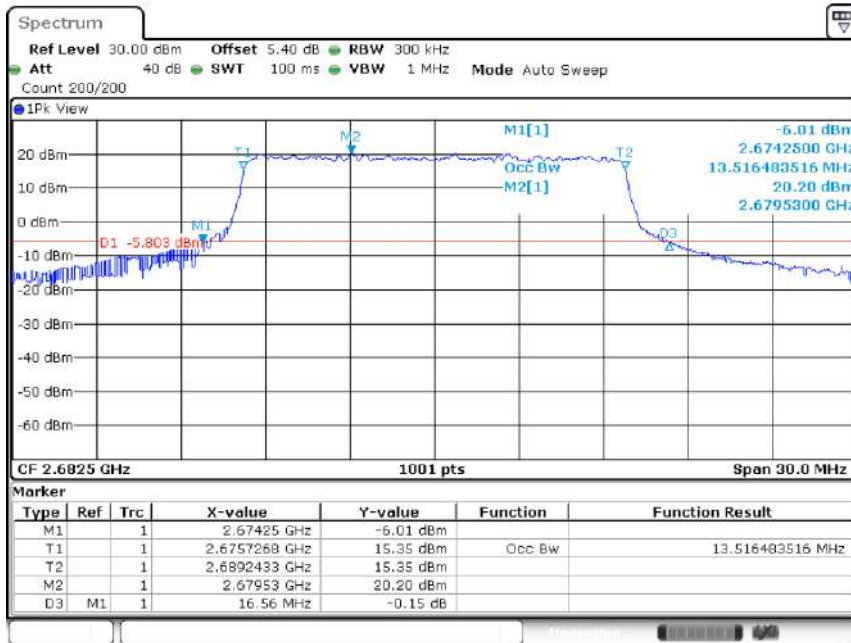


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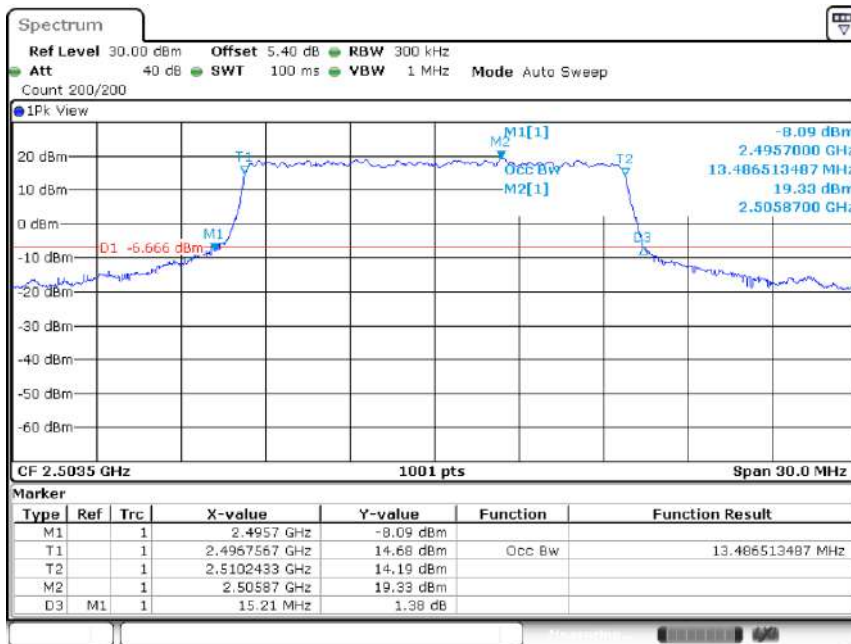


Band41-15MHz-QPSK-41515-75RB#0-13.516



Date: 3.SEP.2020 11:58:14

Band41-15MHz-16QAM-39725-75RB#0-13.487

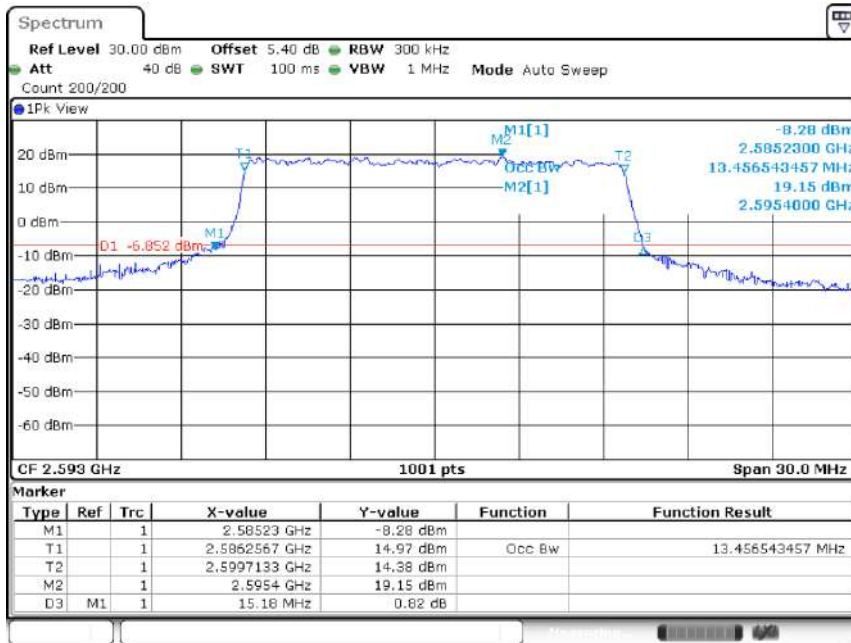


Date: 3.SEP.2020 11:52:24



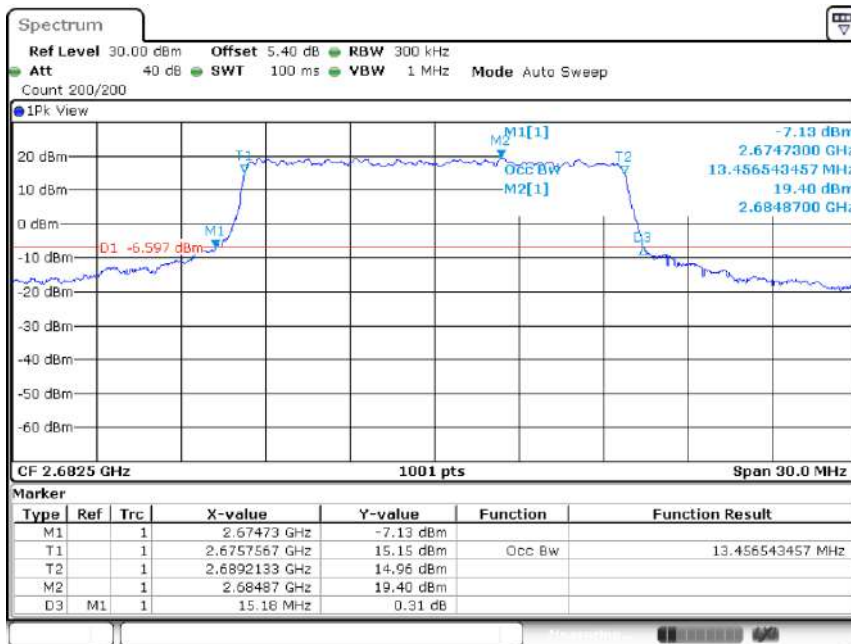
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**Band41-15MHz-16QAM-40620-75RB#0-13.457**



Date: 3.SEP.2020 11:54:38

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

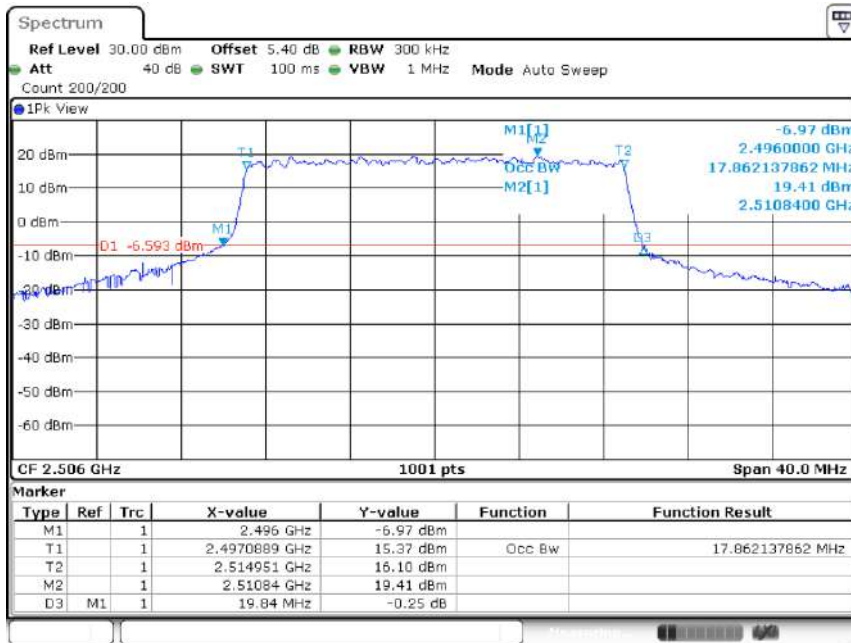


Date: 3.SEP.2020 11:59:45



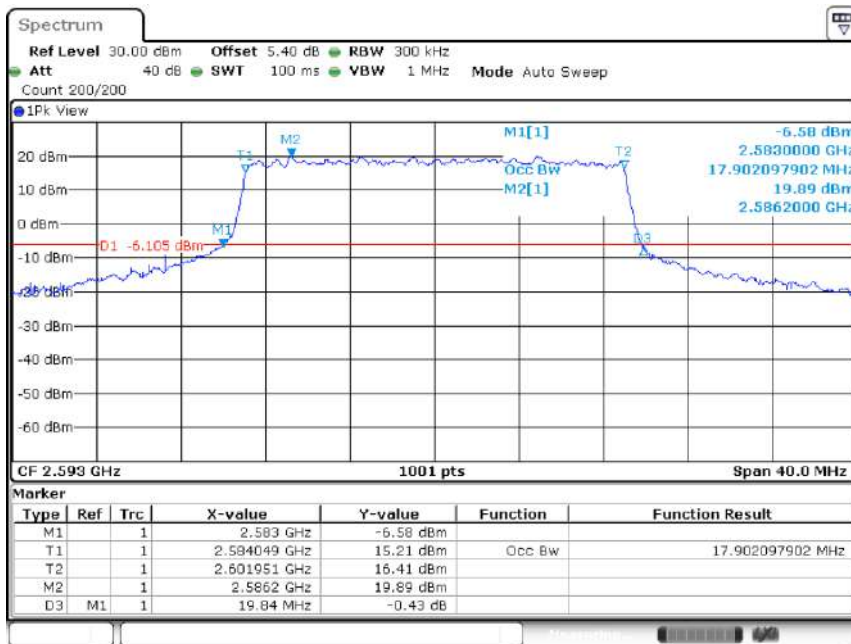
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**Band41-20MHz-QPSK-39750-100RB#0-17.862**



Date: 1 SEP.2020 10:07:35

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



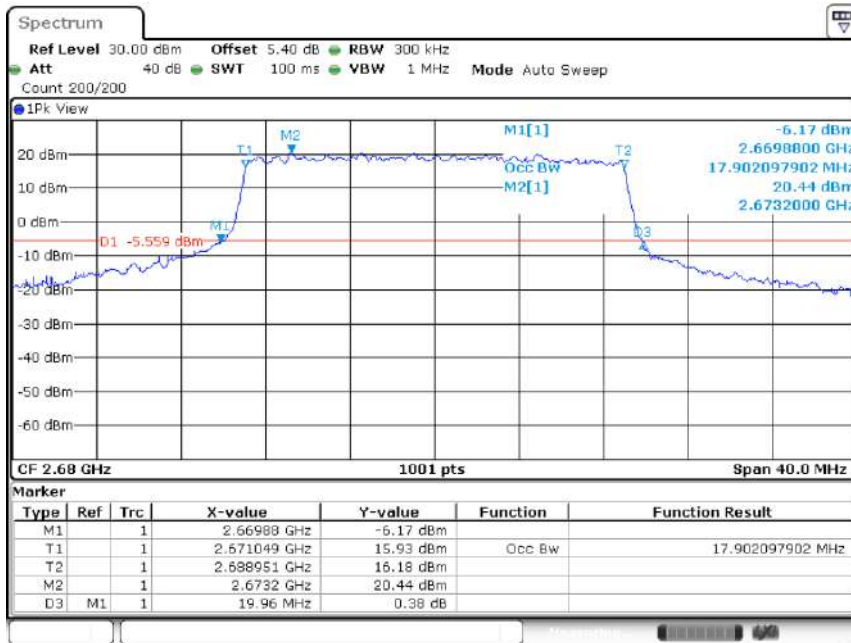
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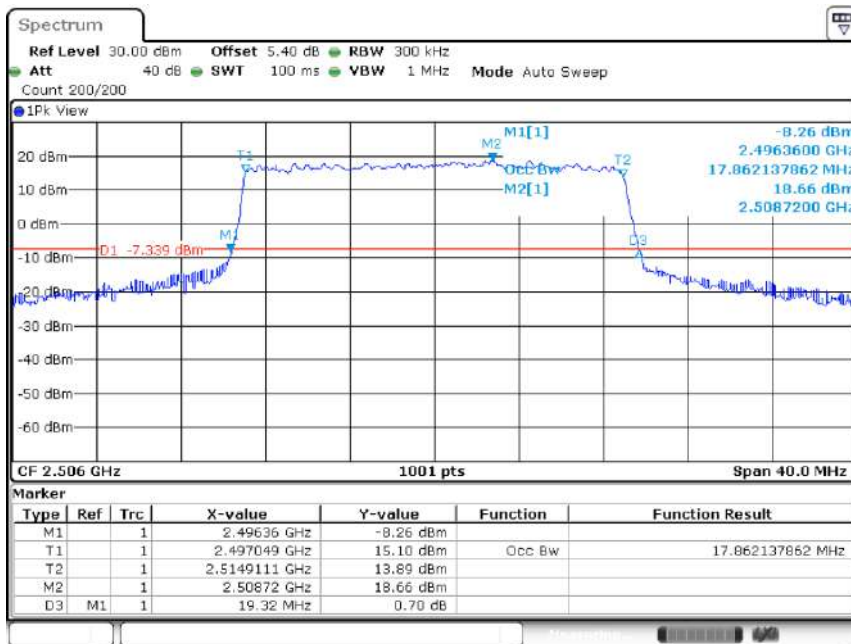


**Band41-20MHz-QPSK-41490-100RB#0-17.902**



Date: 1 SEP.2020 10:12:06

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

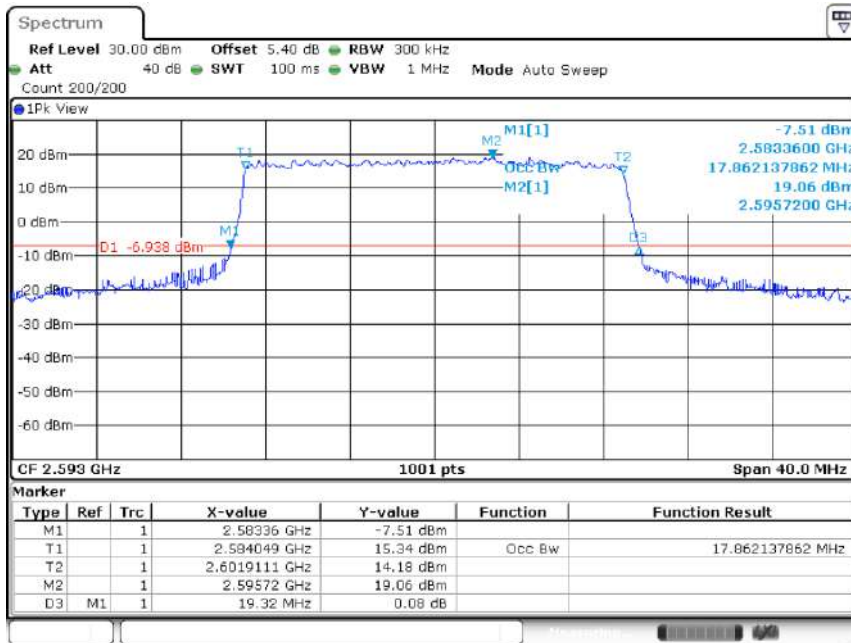


Date: 1 SEP.2020 10:08:23



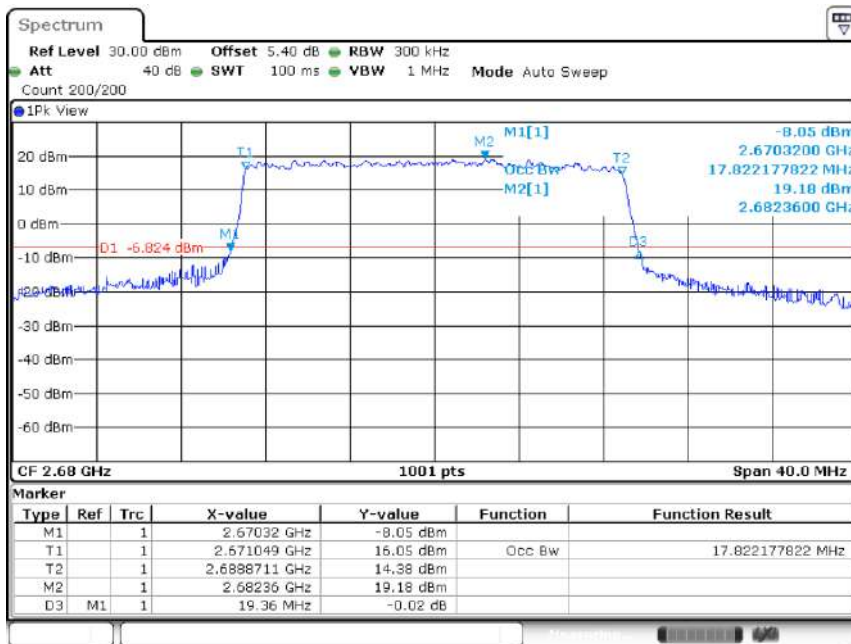
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**Band41-20MHz-16QAM-40620-100RB#0-17.862**



Date: 1 SEP.2020 10:10:26

**Band41-20MHz-16QAM-41490-100RB#0-17.822**



Date: 1 SEP.2020 10:12:38



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## 5. Band Edge Compliance

### 5.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band41	5MHz	QPSK	39675	1RB#0	-44.75,-46.75,-11.76	PASS
Band41	5MHz	QPSK	39675	25RB#0	-39.38,-40.14,-20.14	PASS
Band41	5MHz	QPSK	41565	1RB#24	-45.07,-47.16,-13.42	PASS
Band41	5MHz	QPSK	41565	25RB#0	-38.20,-38.10,-20.32	PASS
Band41	5MHz	16QAM	39675	1RB#0	-46.54,-47.59,-12.37	PASS
Band41	5MHz	16QAM	39675	25RB#0	-40.11,-39.04,-21.51	PASS
Band41	5MHz	16QAM	41565	1RB#24	-47.32,-49.11,-13.64	PASS
Band41	5MHz	16QAM	41565	25RB#0	-38.33,-36.67,-20.02	PASS
Band41	10MHz	QPSK	39700	1RB#0	-43.58,-33.35,-20.32	PASS
Band41	10MHz	QPSK	39700	50RB#0	-39.13,-30.93,-22.23	PASS
Band41	10MHz	QPSK	41540	1RB#49	-41.73,-36.71,-17.87	PASS
Band41	10MHz	QPSK	41540	50RB#0	-36.93,-29.83,-21.37	PASS
Band41	10MHz	16QAM	39700	1RB#0	-44.26,-37.33,-19.86	PASS
Band41	10MHz	16QAM	39700	50RB#0	-37.65,-33.37,-24.25	PASS
Band41	10MHz	16QAM	41540	1RB#49	-42.88,-38.40,-19.44	PASS
Band41	10MHz	16QAM	41540	50RB#0	-35.93,-31.38,-23.89	PASS
Band41	15MHz	QPSK	39725	1RB#0	-43.39,-38.75,-19.25	PASS
Band41	15MHz	QPSK	39725	75RB#0	-38.34,-25.99,-22.54	PASS
Band41	15MHz	QPSK	41515	1RB#74	-45.86,-40.12,-18.66	PASS
Band41	15MHz	QPSK	41515	75RB#0	-38.00,-29.09,-25.36	PASS
Band41	15MHz	16QAM	39725	1RB#0	-44.01,-38.87,-20.03	PASS
Band41	15MHz	16QAM	39725	75RB#0	-37.00,-27.33,-24.71	PASS
Band41	15MHz	16QAM	41515	1RB#74	-45.30,-39.25,-18.20	PASS
Band41	15MHz	16QAM	41515	75RB#0	-36.28,-28.28,-24.53	PASS
Band41	20MHz	QPSK	39750	1RB#0	-45.67,-25.49,-16.85	PASS
Band41	20MHz	QPSK	39750	100RB#0	-40.75,-27.15,-23.38	PASS
Band41	20MHz	QPSK	41490	1RB#99	-45.00,-27.51,-15.67	PASS
Band41	20MHz	QPSK	41490	100RB#0	-36.55,-27.05,-22.65	PASS
Band41	20MHz	16QAM	39750	1RB#0	-45.97,-29.43,-16.85	PASS
Band41	20MHz	16QAM	39750	100RB#0	-39.40,-29.54,-26.04	PASS
Band41	20MHz	16QAM	41490	1RB#99	-45.17,-30.74,-18.03	PASS
Band41	20MHz	16QAM	41490	100RB#0	-36.21,-29.58,-25.62	PASS

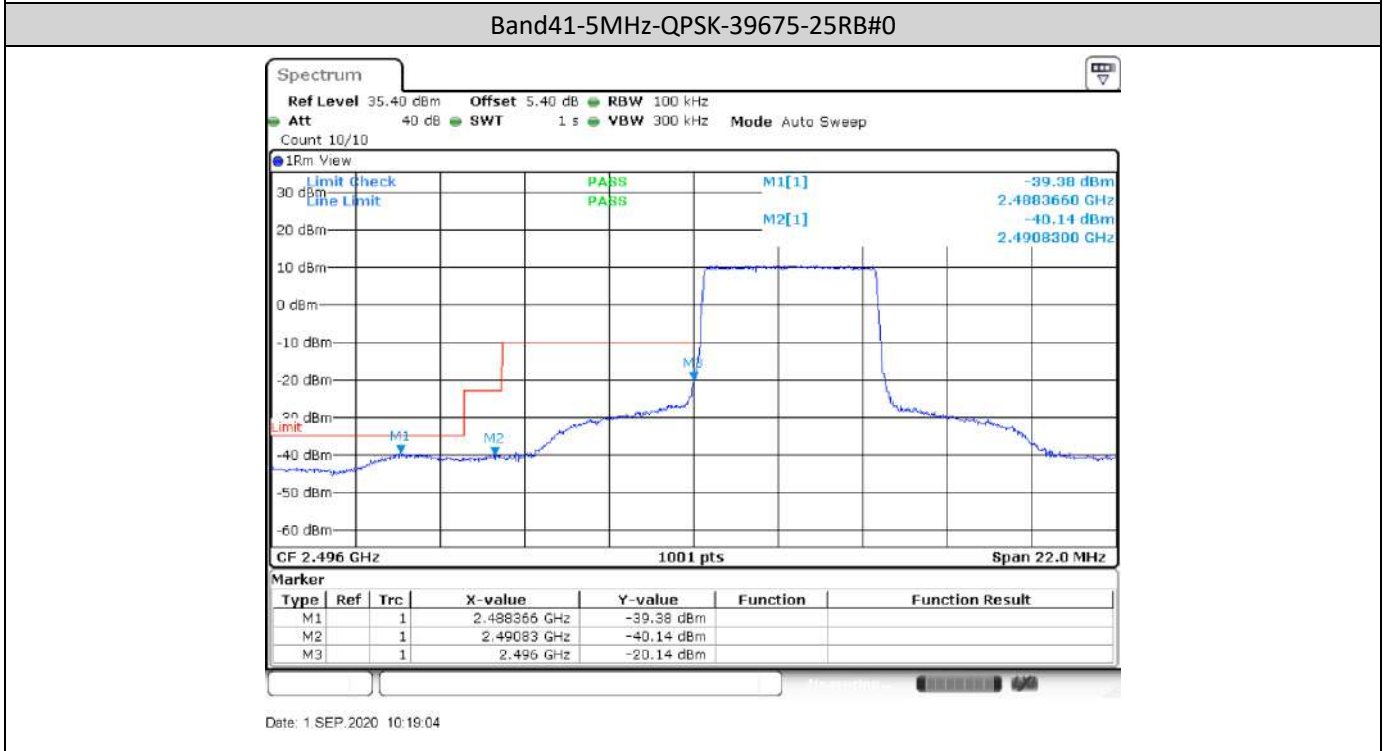
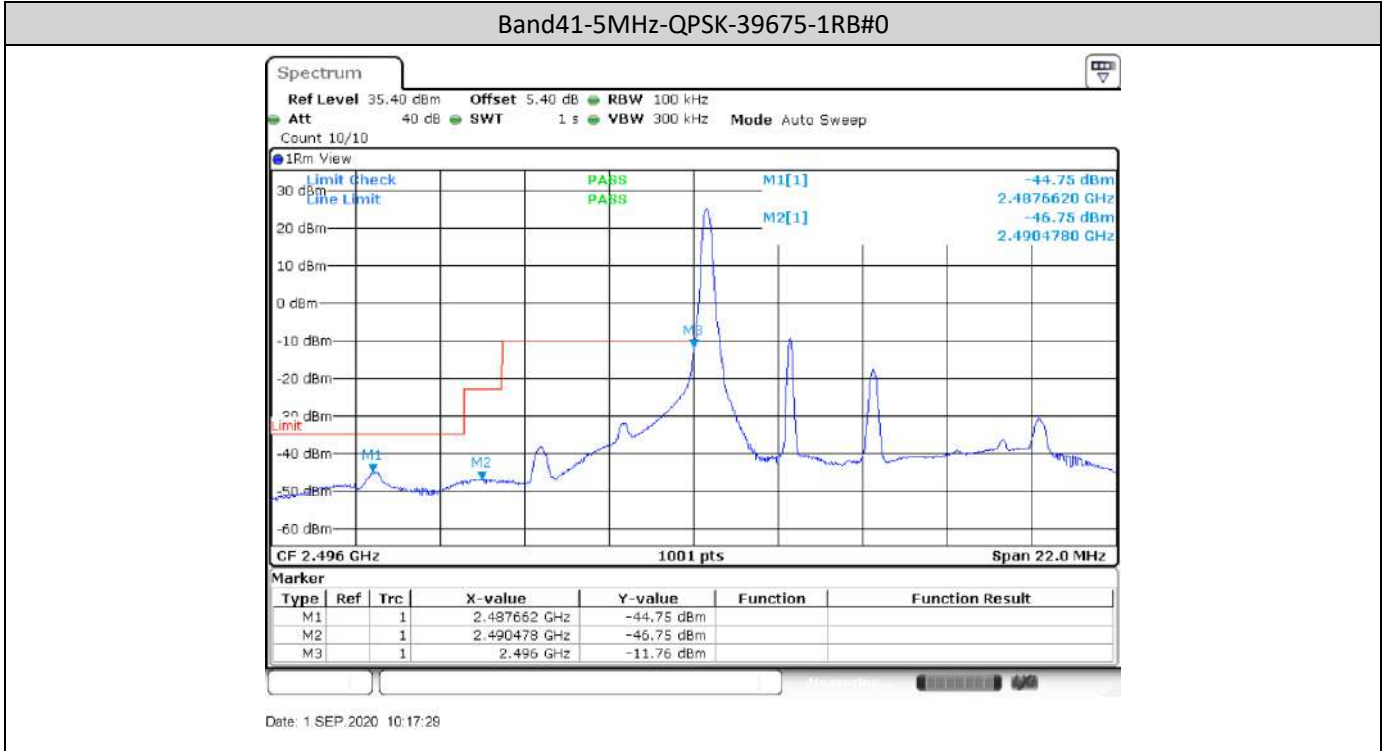


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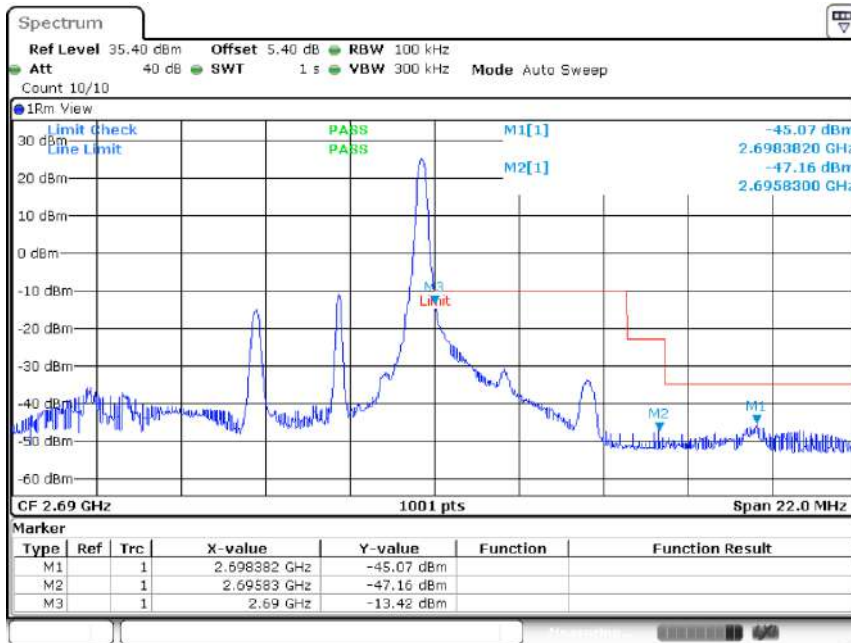
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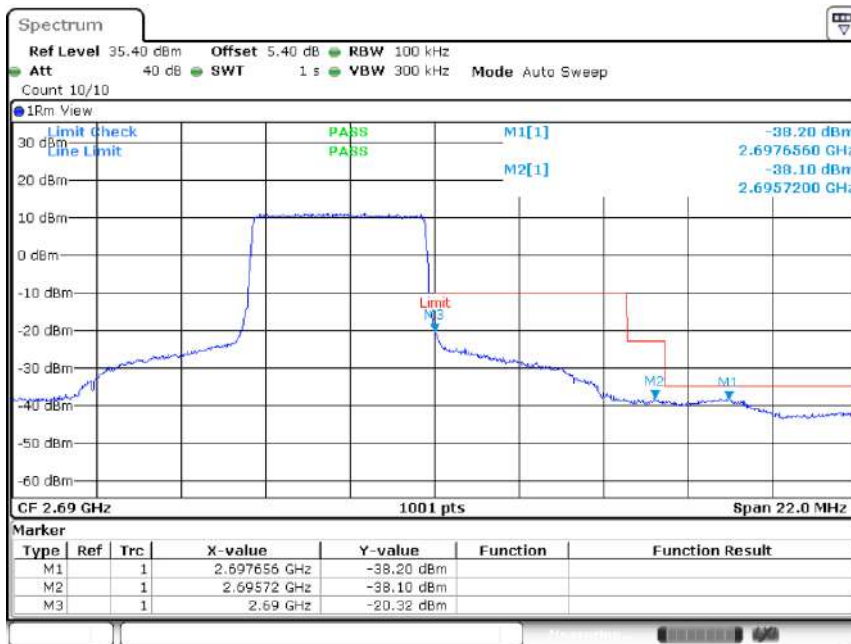
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**Band41-5MHz-QPSK-41565-1RB#24**



Date: 1 SEP.2020 10:18:16

**Band41-5MHz-QPSK-41565-25RB#0**

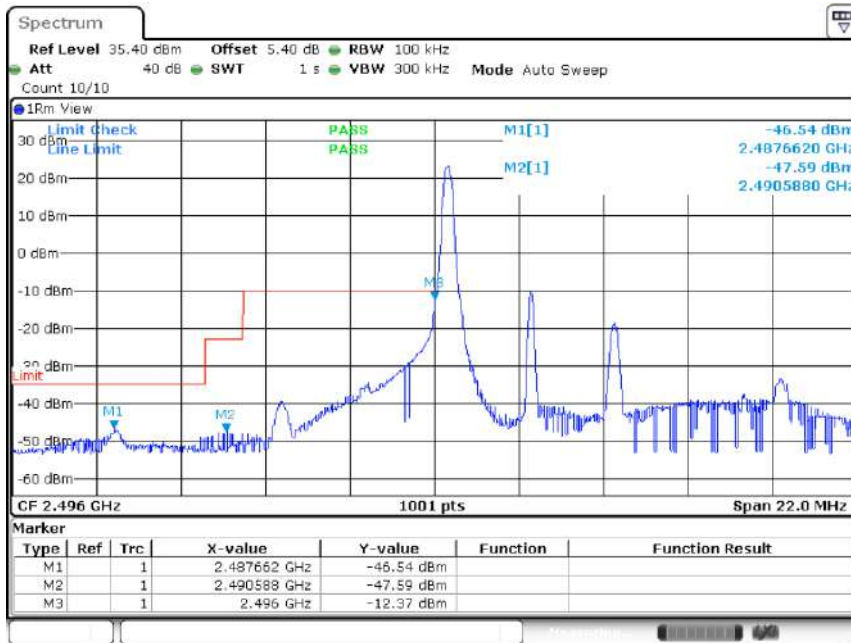


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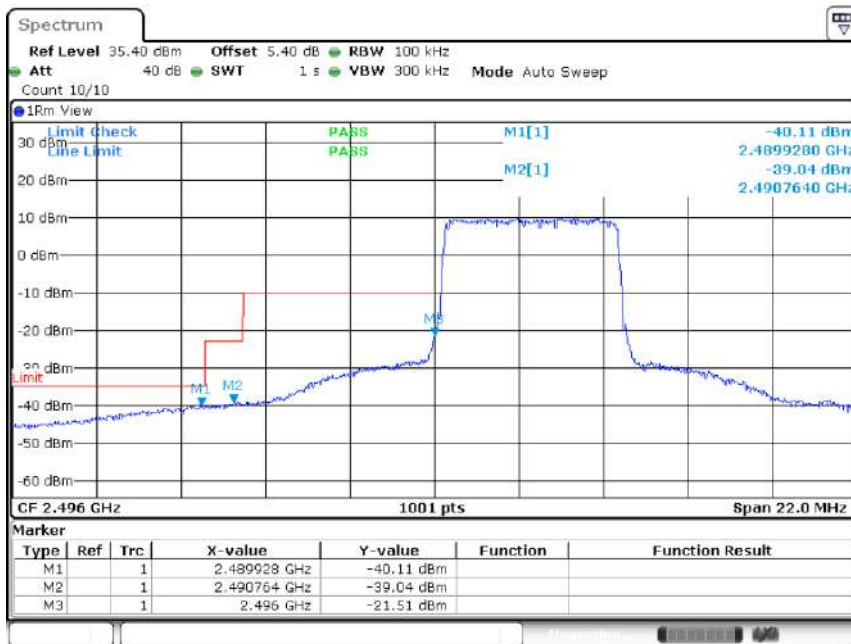
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**Band41-5MHz-16QAM-39675-1RB#0**



Date: 1 SEP.2020 10:17:50

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



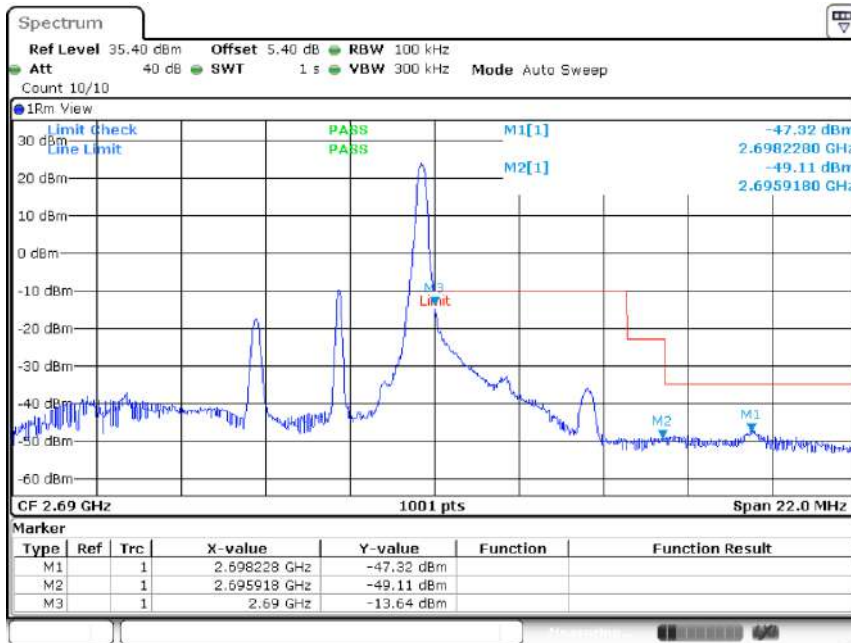
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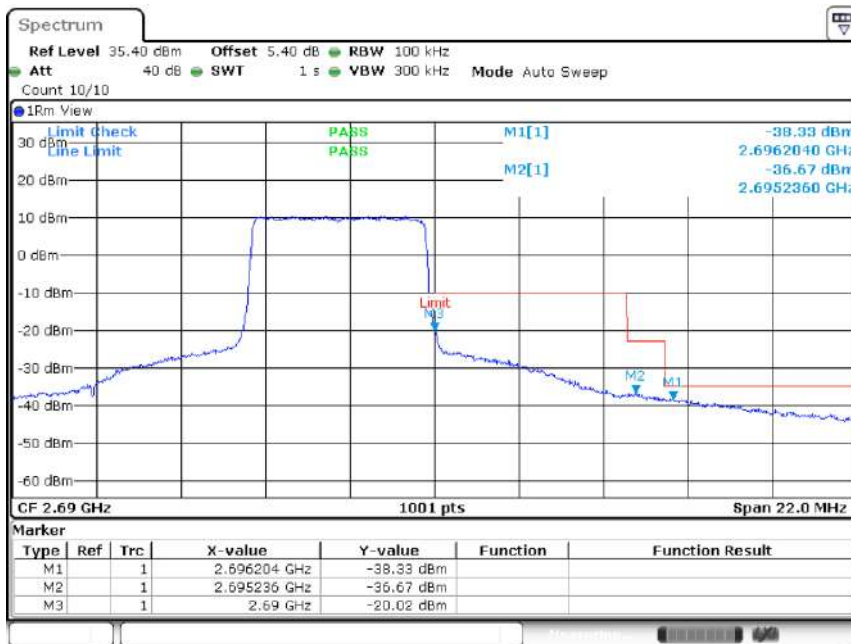


**Band41-5MHz-16QAM-41565-1RB#24**



Date: 1 SEP.2020 10:18:38

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

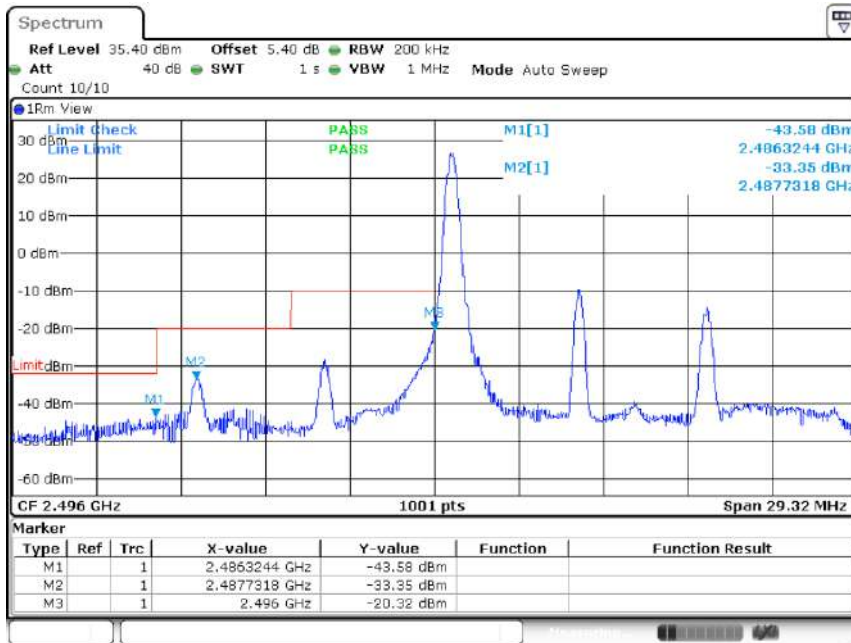


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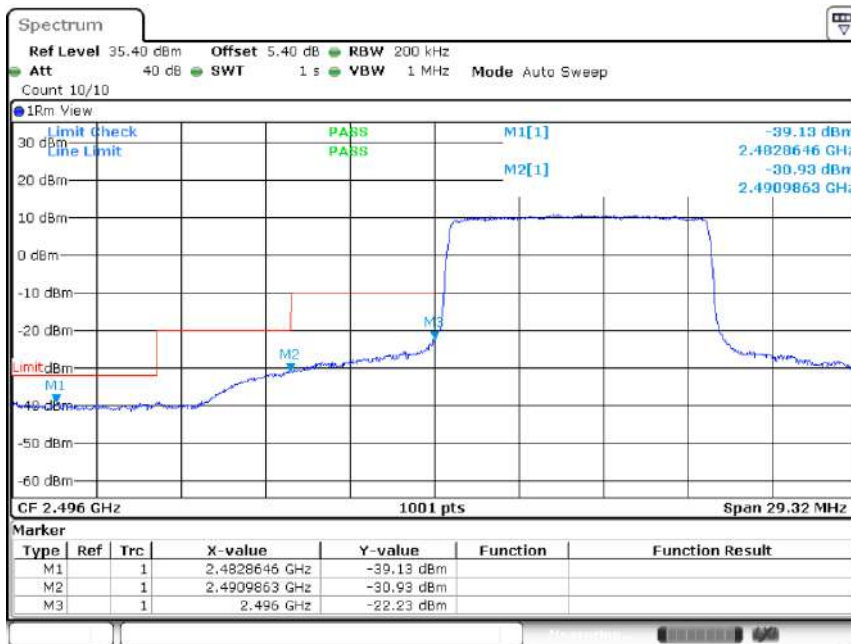
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**Band41-10MHz-QPSK-39700-1RB#0**



Date: 1 SEP.2020 10:20:36

**Band41-10MHz-QPSK-39700-50RB#0**

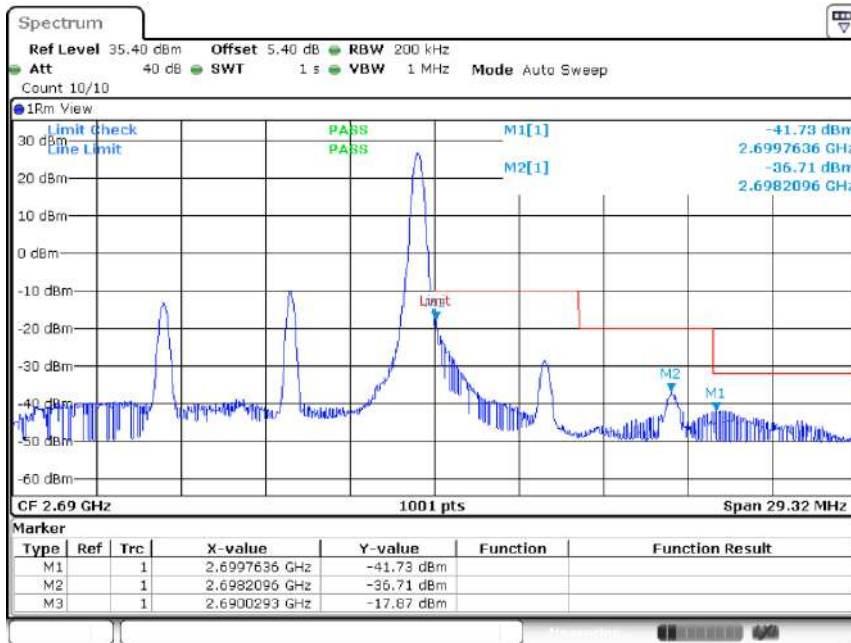


Date: 1 SEP.2020 10:22:20



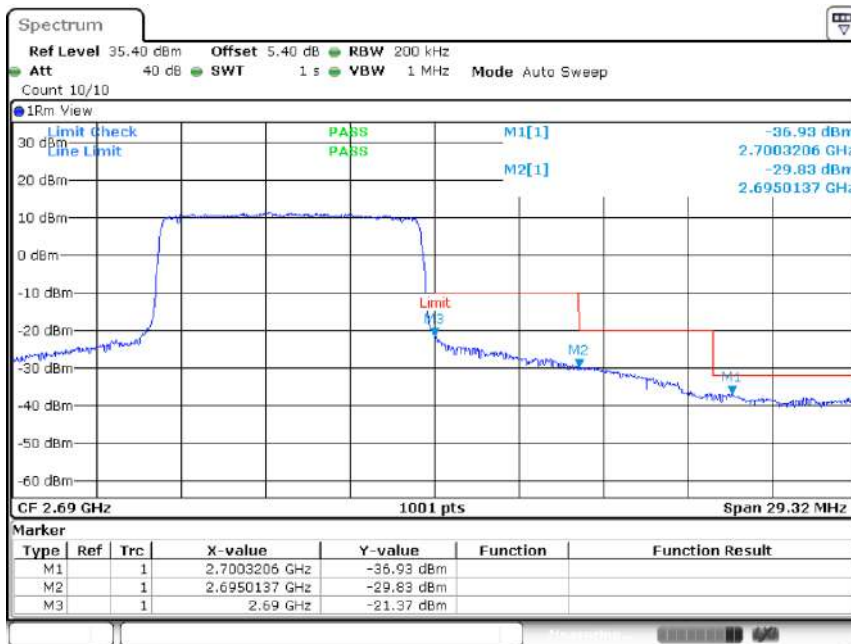
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**Band41-10MHz-QPSK-41540-1RB#49**



Date: 1 SEP.2020 10:21:24

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



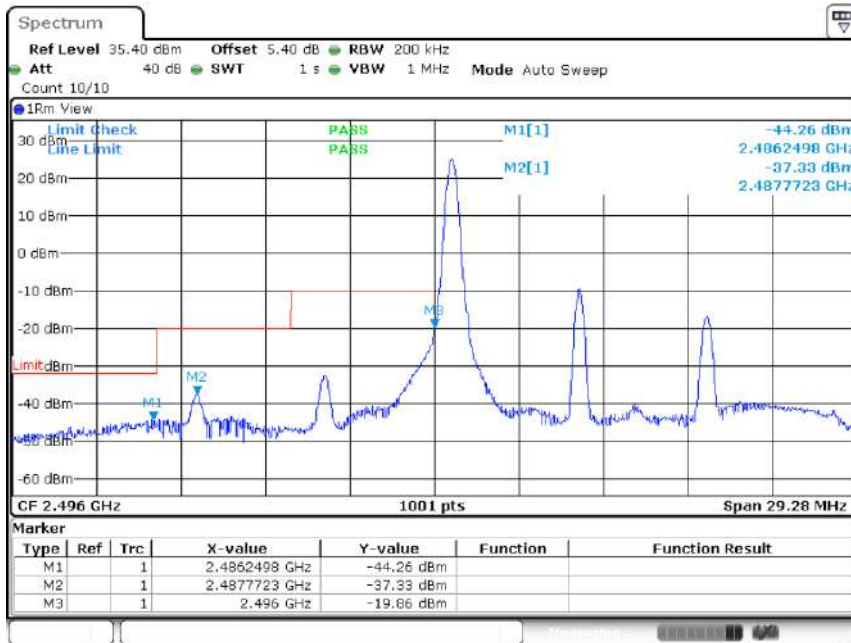
Date: 1 SEP.2020 10:28:06



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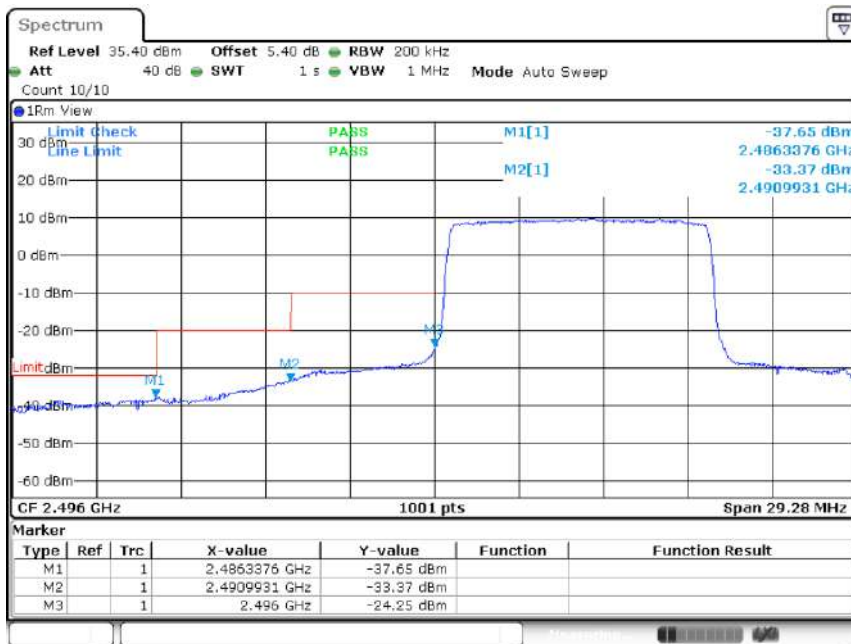


**Band41-10MHz-16QAM-39700-1RB#0**



Date: 1 SEP.2020 10:20:58

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

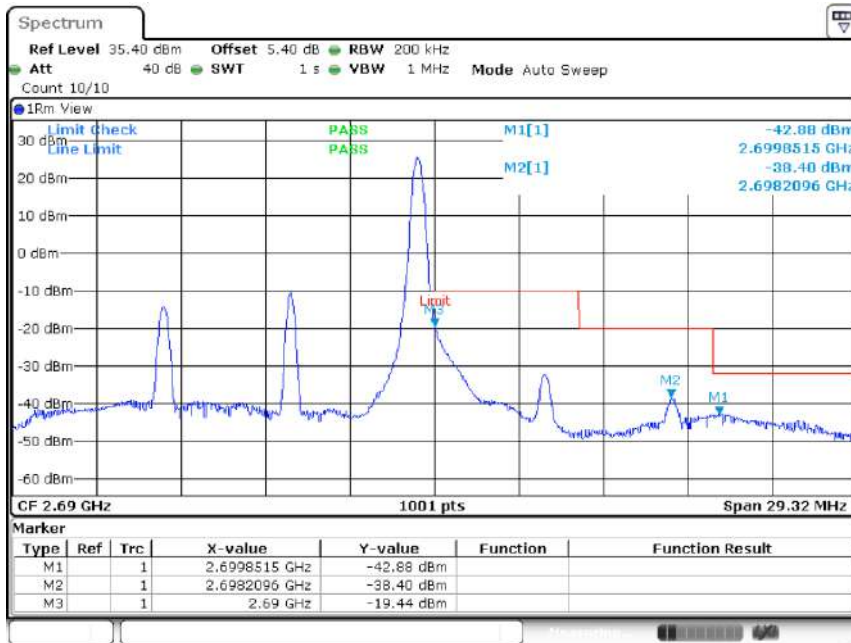


Date: 1 SEP.2020 10:22:44



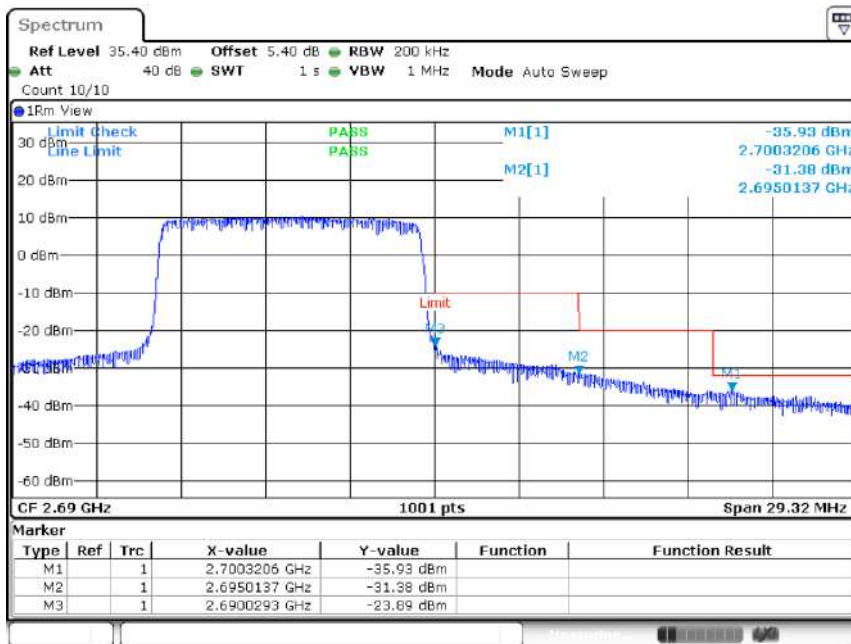
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**Band41-10MHz-16QAM-41540-1RB#49**



Date: 1 SEP.2020 10:21:54

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

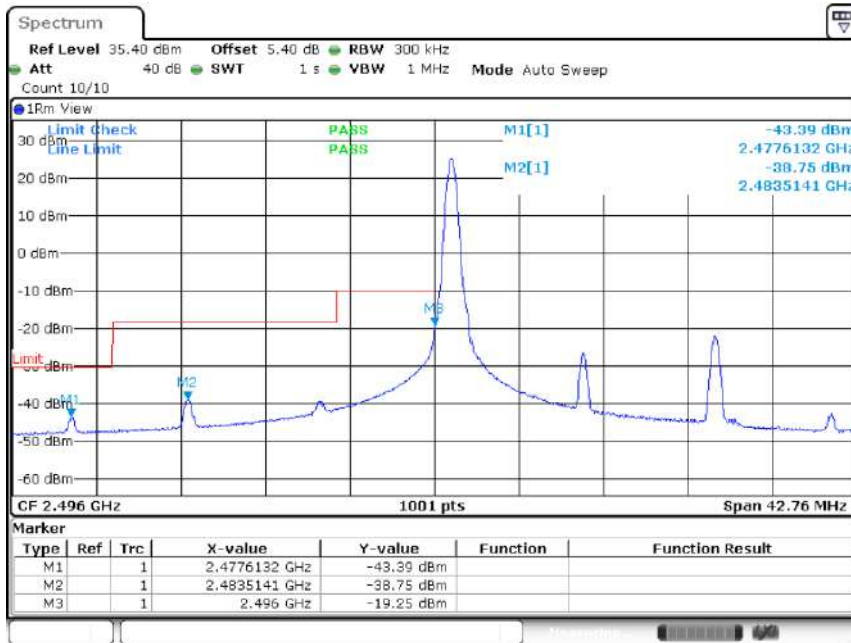


Date: 1 SEP.2020 10:23:27



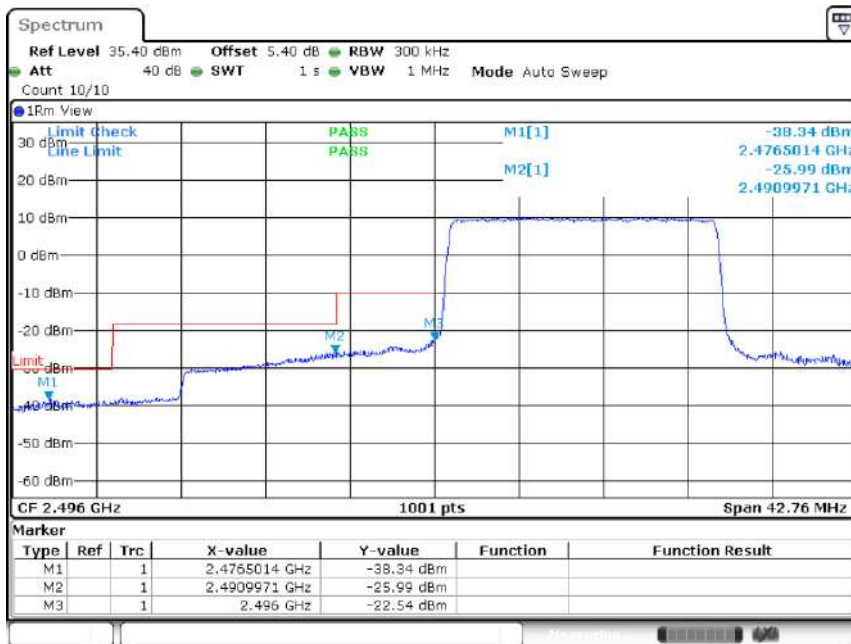
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**Band41-15MHz-QPSK-39725-1RB#0**



Date: 3.SEP.2020 12:00:11

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



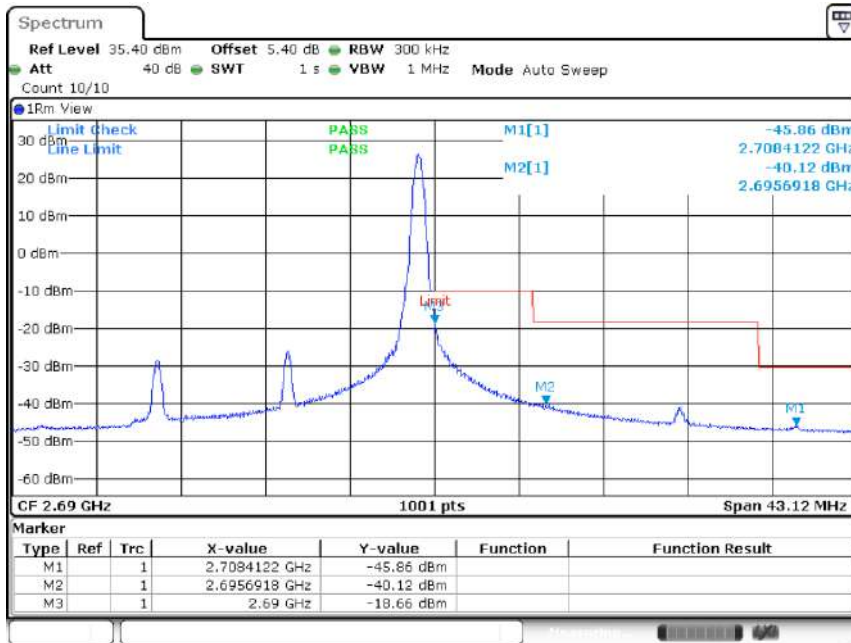
Date: 3.SEP.2020 12:01:46



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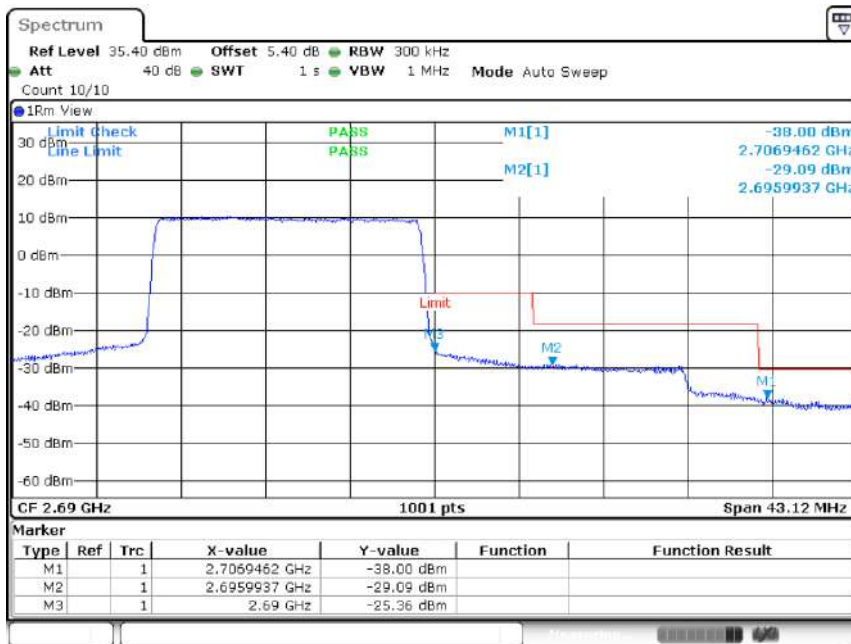


**Band41-15MHz-QPSK-41515-1RB#74**



Date: 3.SEP.2020 12:00:58

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

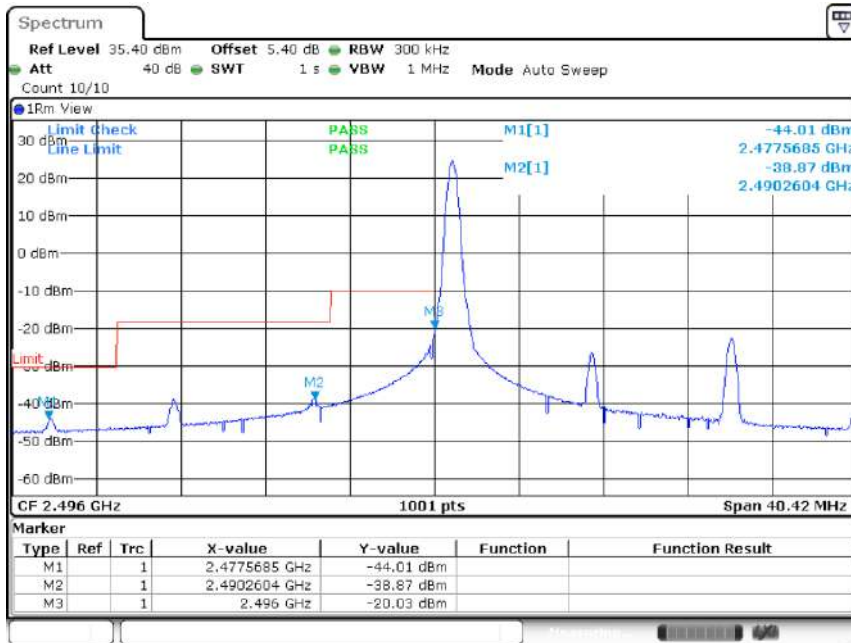


Date: 3.SEP.2020 12:02:30



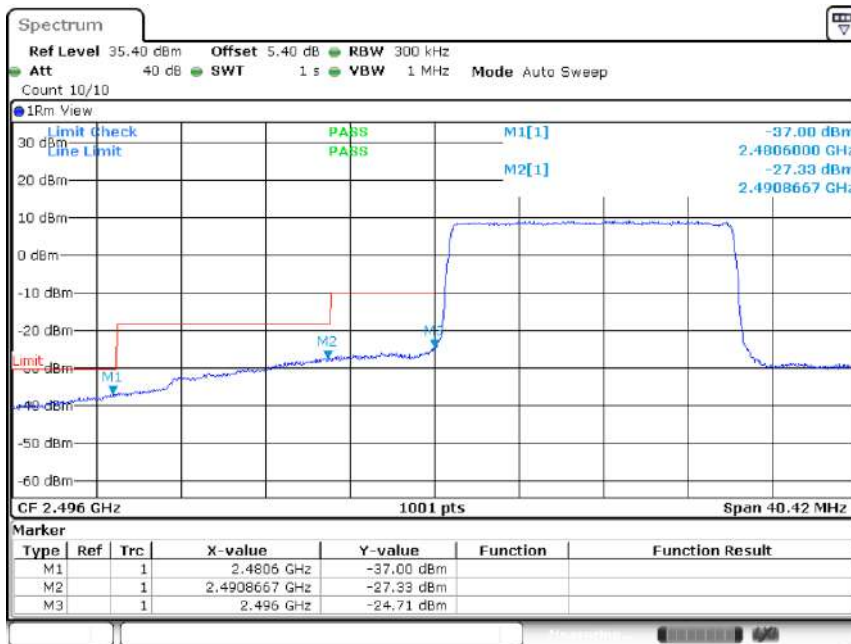
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**Band41-15MHz-16QAM-39725-1RB#0**



Date: 3.SEP.2020 12:00:32

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

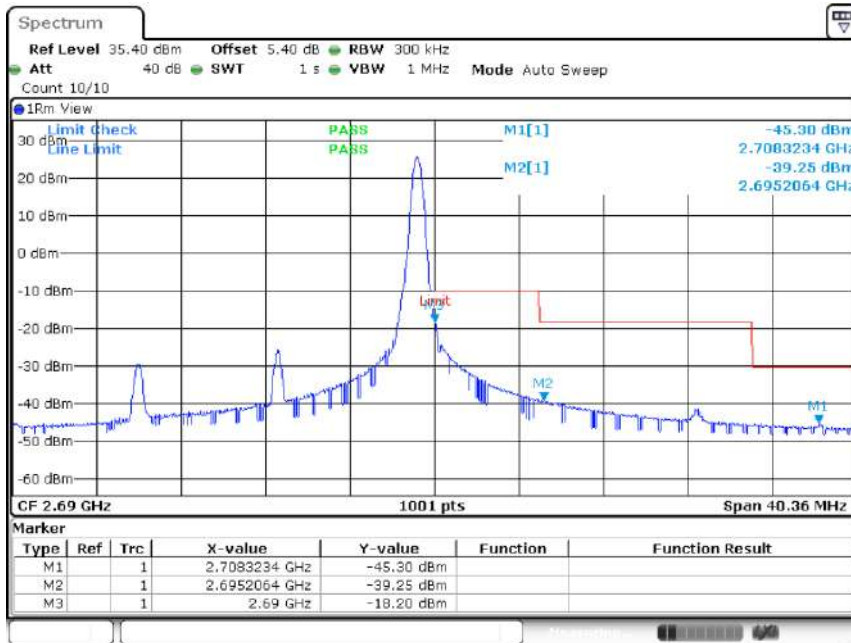


Date: 3.SEP.2020 12:02:08



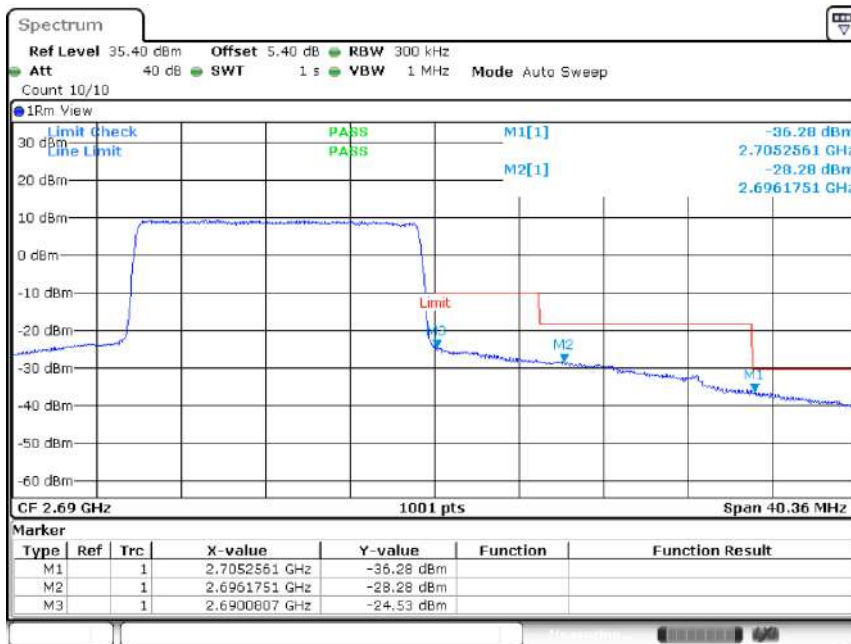
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**Band41-15MHz-16QAM-41515-1RB#74**



Date: 3.SEP.2020 12:01:20

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



Date: 3.SEP.2020 12:02:51

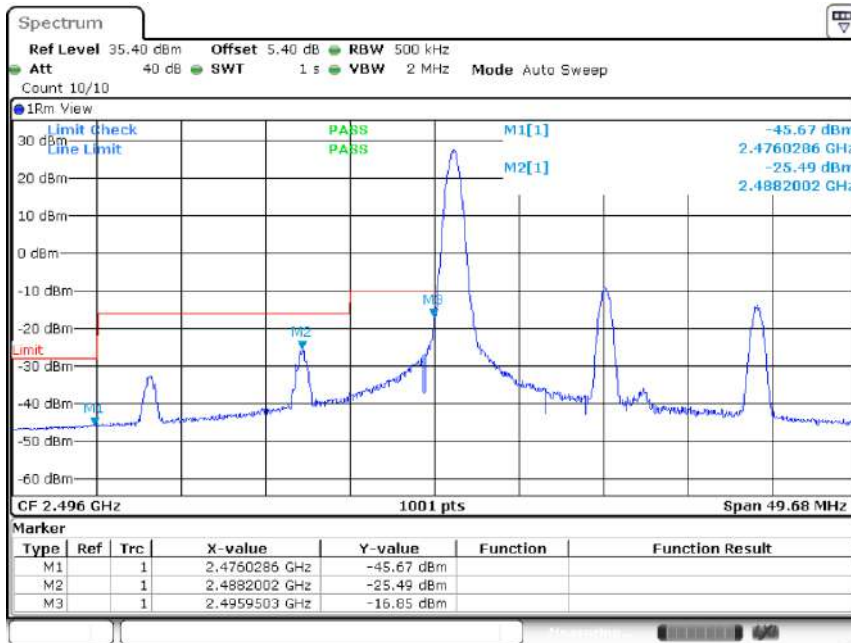


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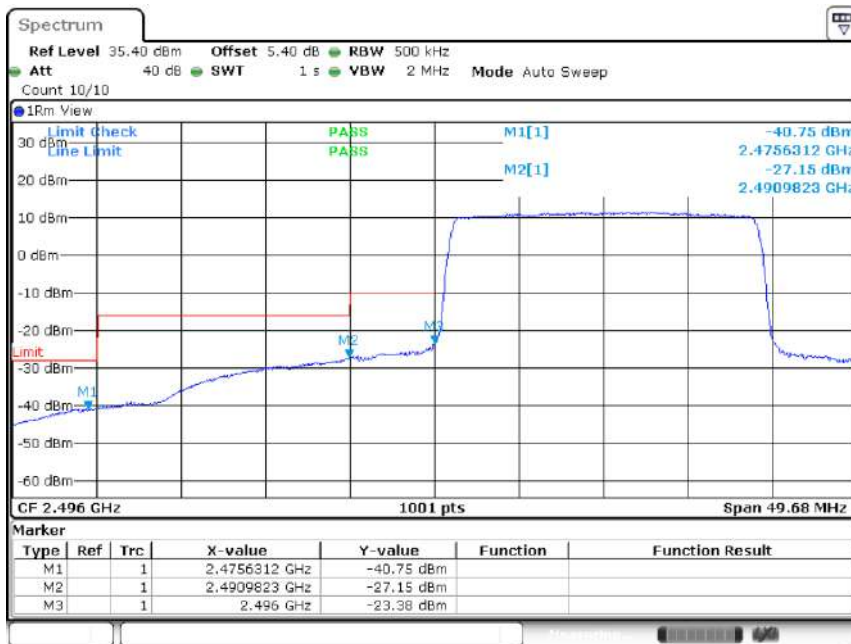


**Band41-20MHz-QPSK-39750-1RB#0**



Date: 1 SEP.2020 10:26:49

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

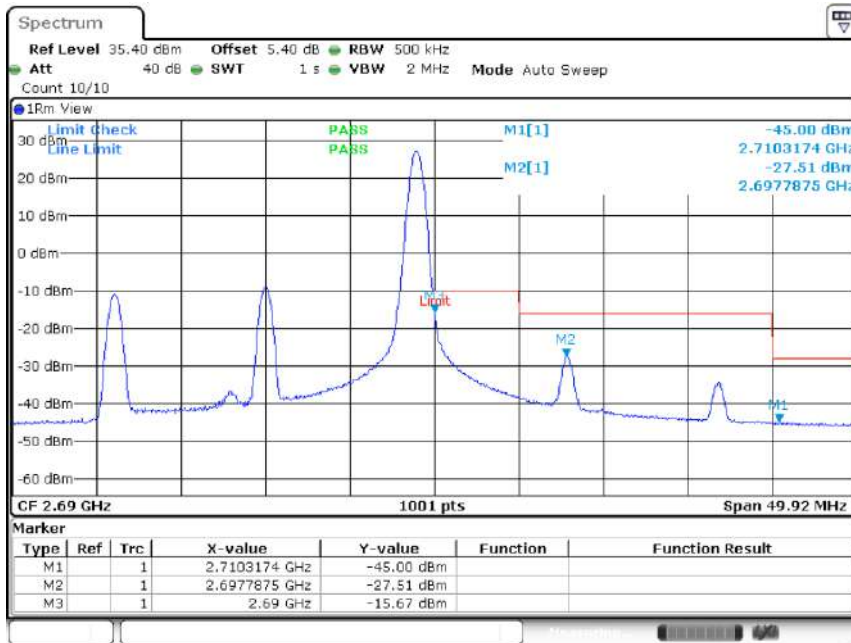


Date: 1 SEP.2020 10:27:24



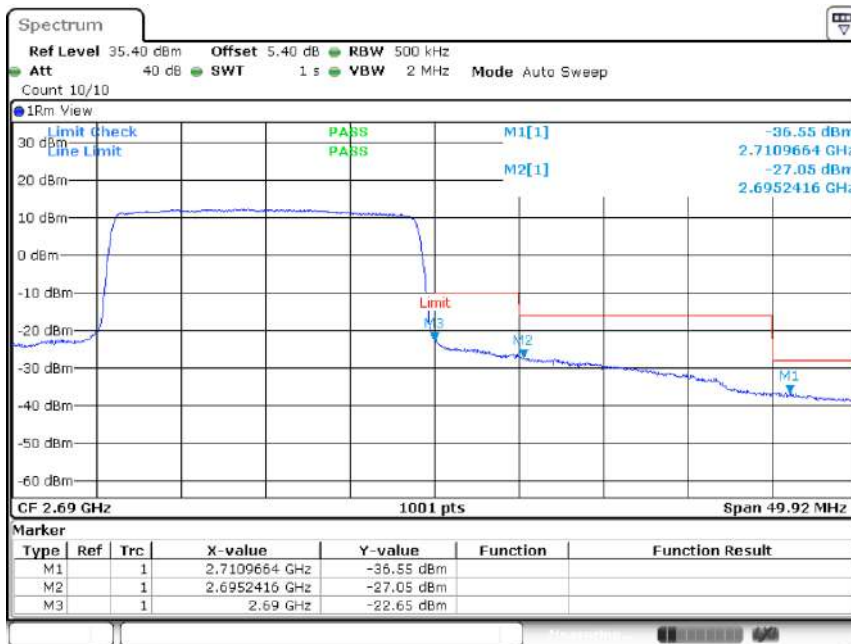
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**Band41-20MHz-QPSK-41490-1RB#99**



Date: 1 SEP.2020 10:26:37

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

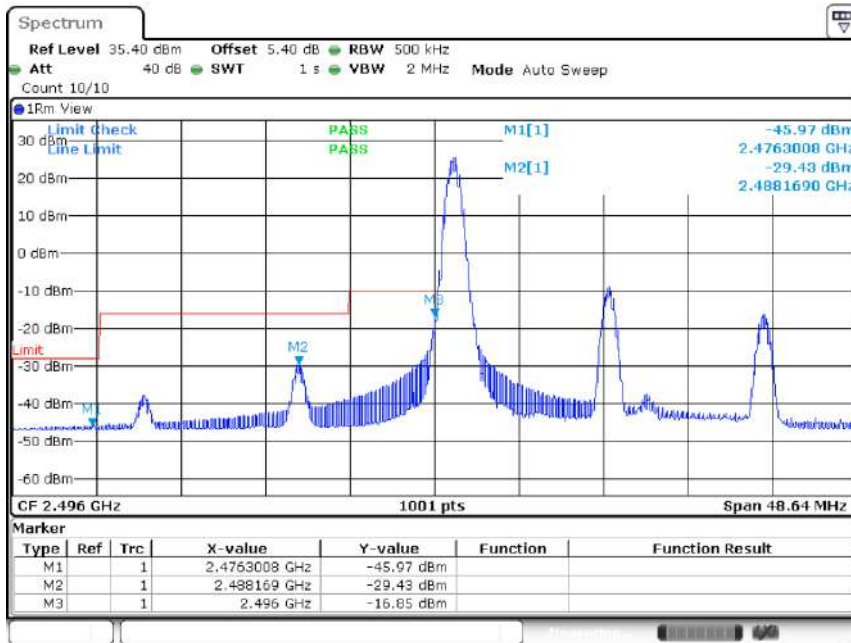


Date: 1 SEP.2020 10:28:08



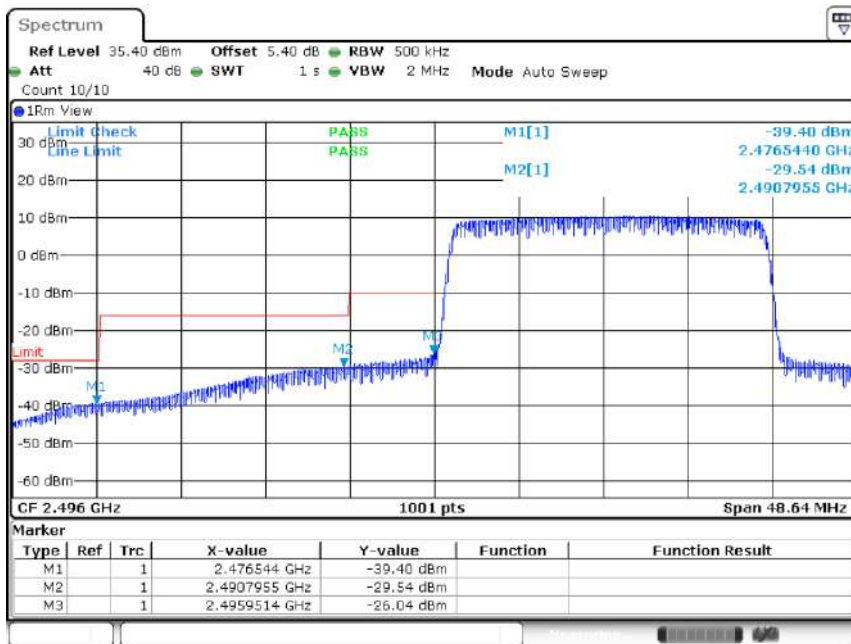
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**Band41-20MHz-16QAM-39750-1RB#0**



Date: 1 SEP.2020 10:26:11

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



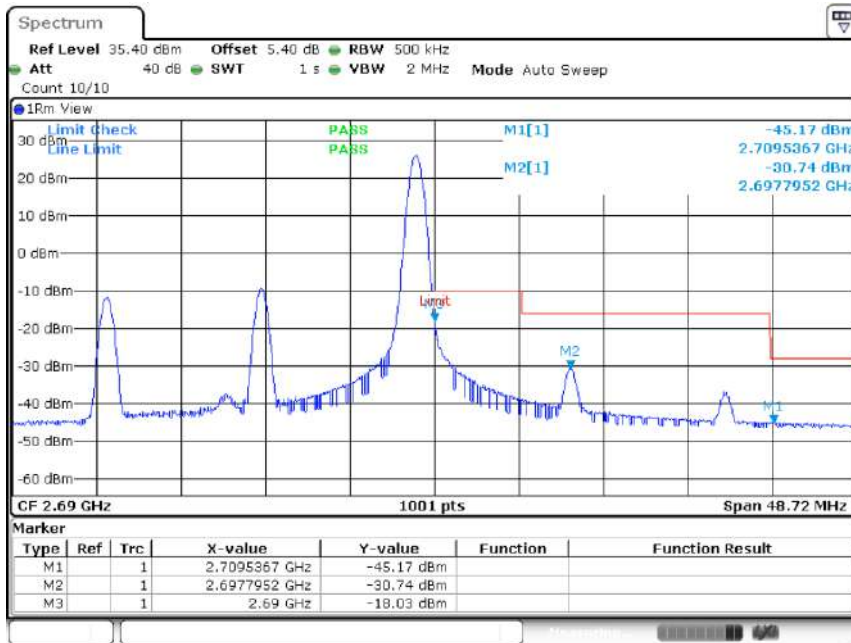
Date: 1 SEP.2020 10:27:46



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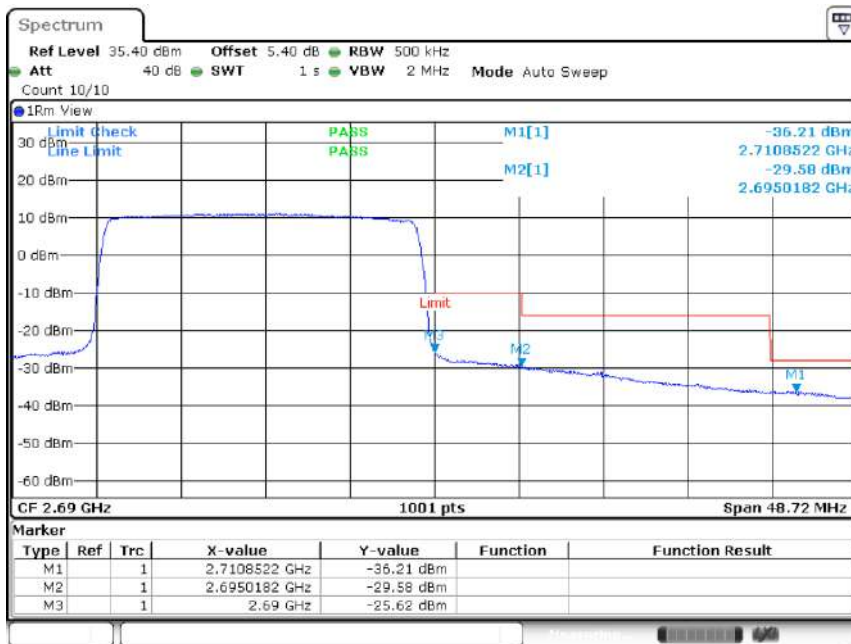


**Band41-20MHz-16QAM-41490-1RB#99**



Date: 1 SEP.2020 10:26:58

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



Date: 1 SEP.2020 10:28:30



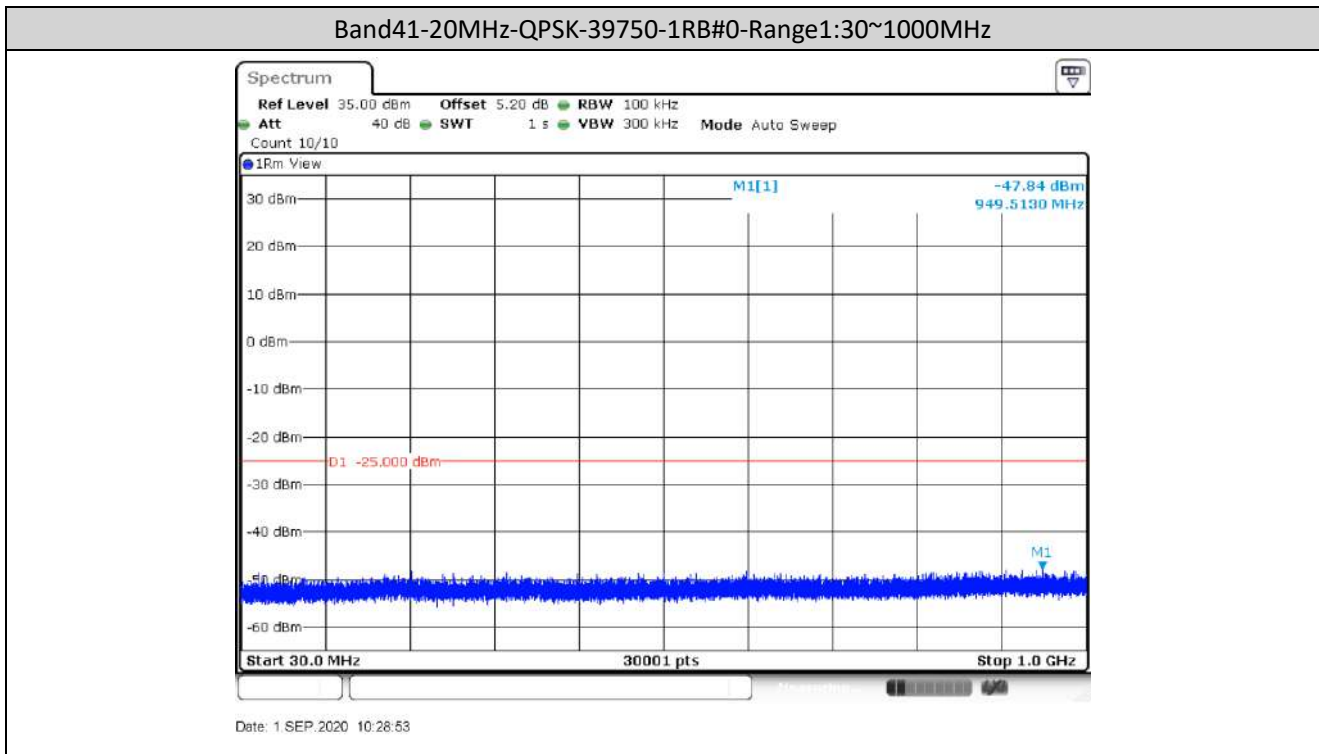
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## 6. Spurious Emission at Antenna Terminal

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 =  $k * (\text{Span} / \text{RBW})$ " 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.

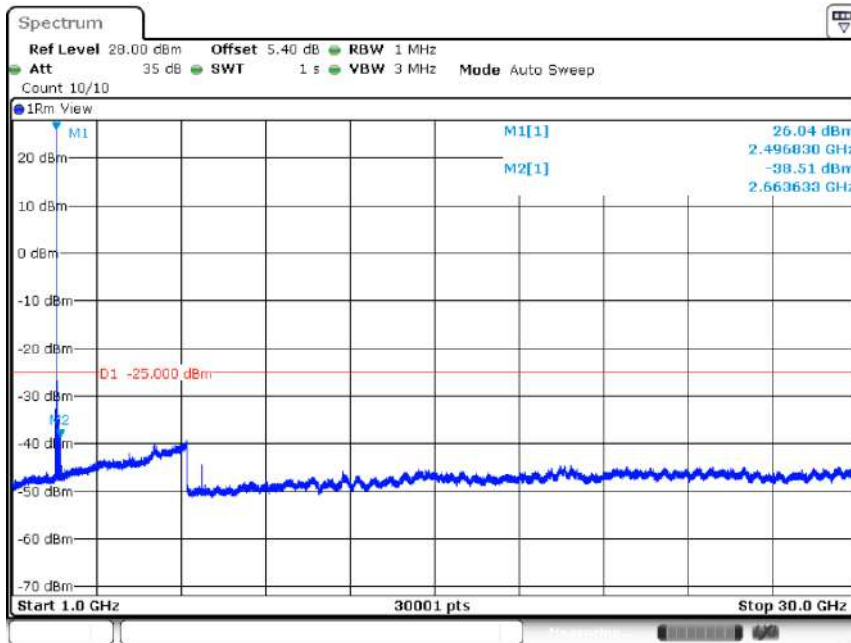
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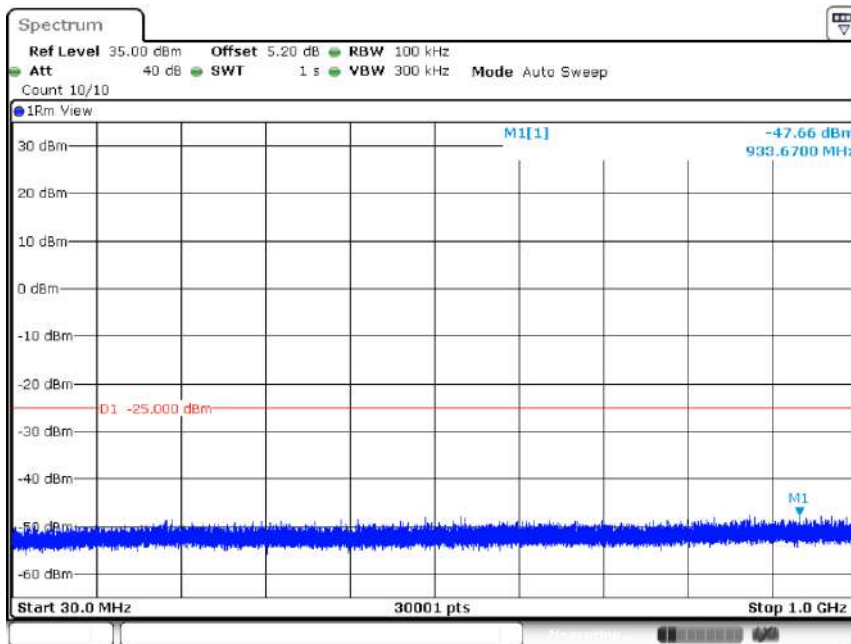
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**Band41-20MHz-QPSK-39750-1RB#0-Range2:1000~30000MHz**



Date: 1 SEP.2020 10:28:09

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



Date: 1 SEP.2020 10:30:03

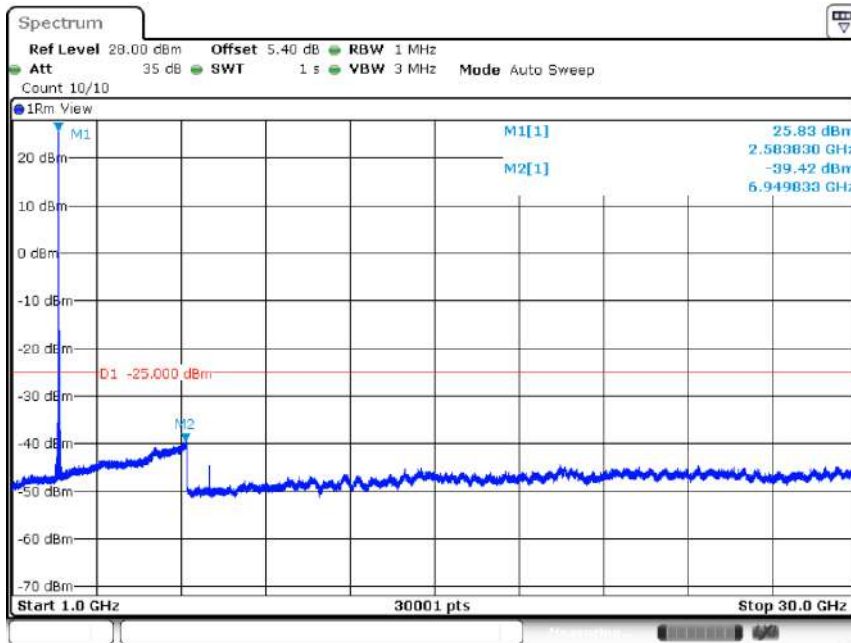


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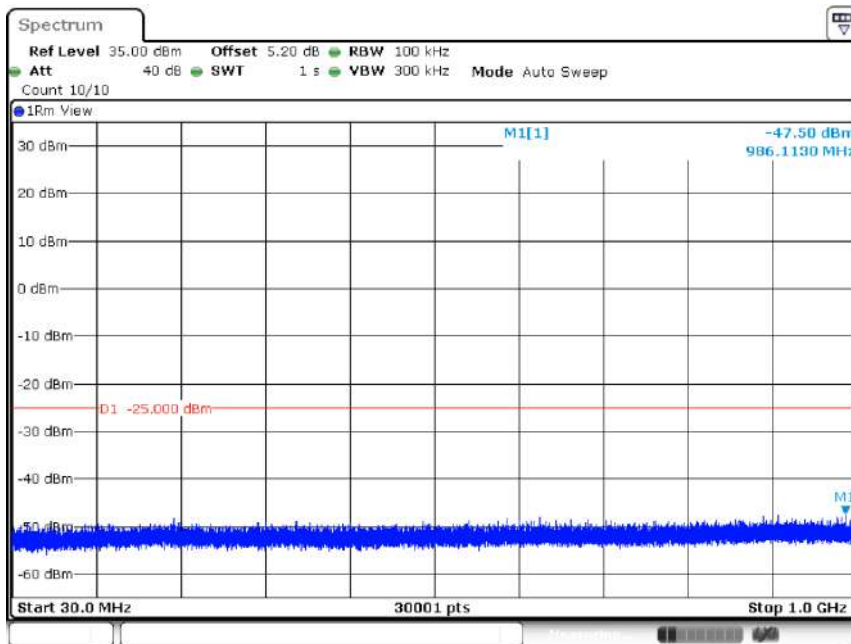


**Band41-20MHz-QPSK-40620-1RB#0-Range2:1000~30000MHz**



Date: 1 SEP.2020 10:30:19

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

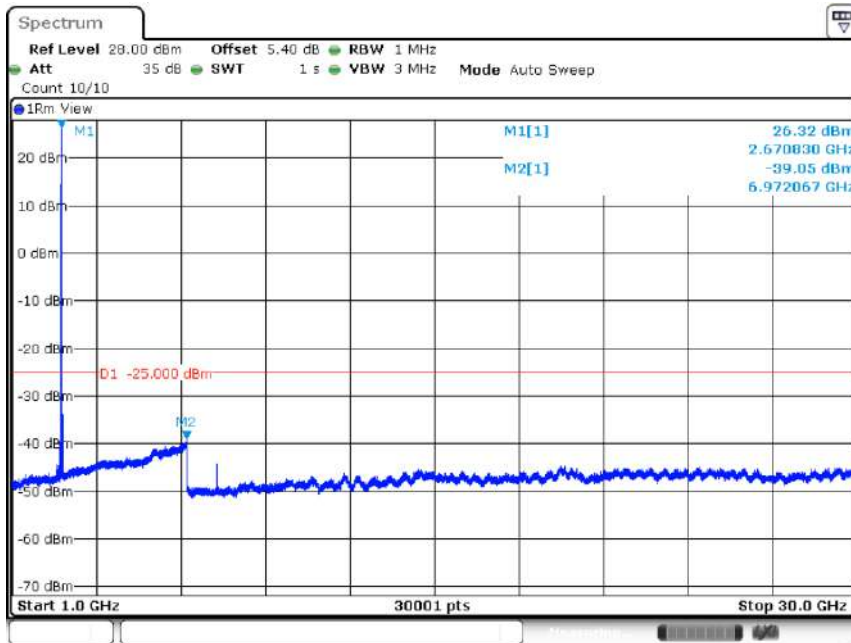


Date: 1 SEP.2020 10:31:13



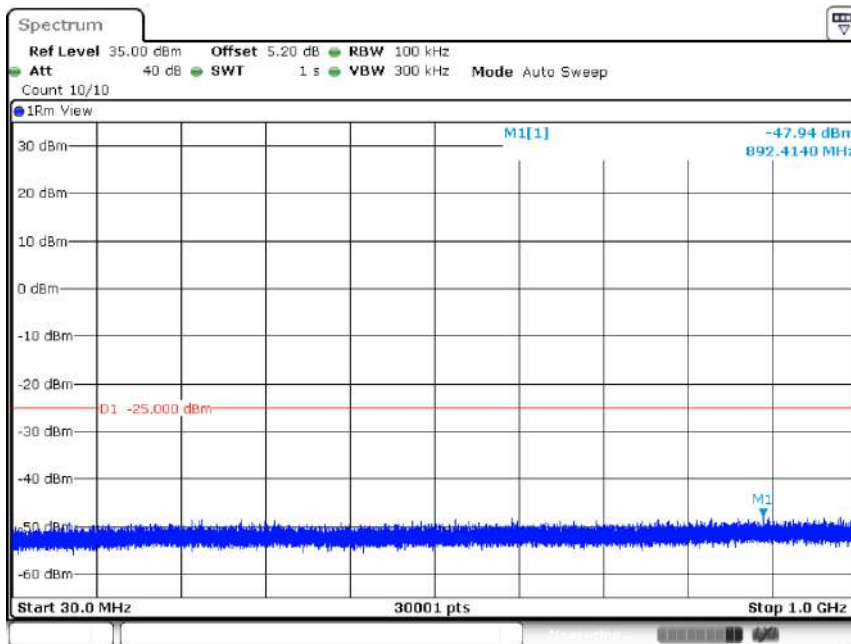
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**Band41-20MHz-QPSK-41490-1RB#0-Range2:1000~30000MHz**



Date: 1 SEP.2020 10:31:29

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

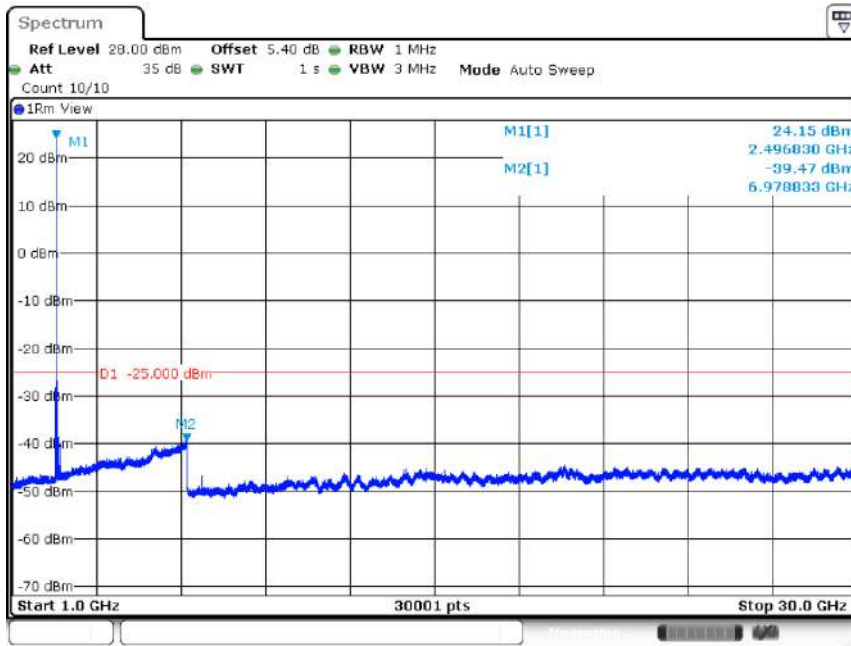


Date: 1 SEP.2020 10:28:28



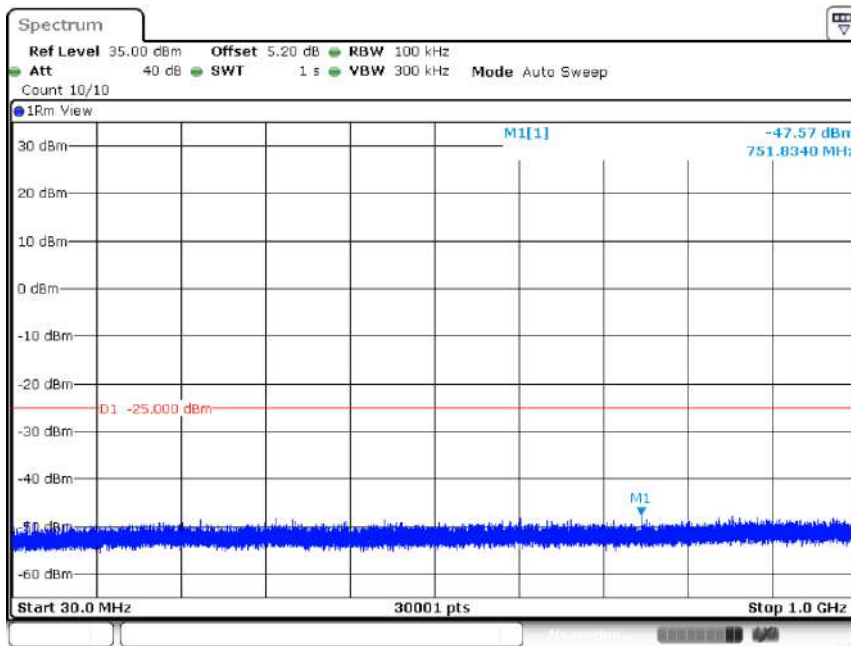
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**Band41-20MHz-16QAM-39750-1RB#0-Range2:1000~30000MHz**



Date: 1 SEP.2020 10:28:44

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



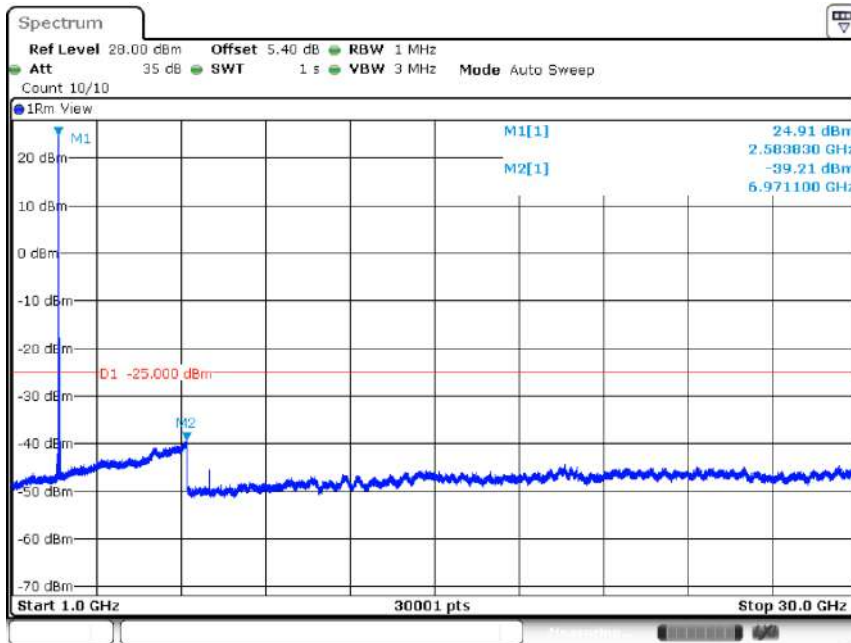
Date: 1 SEP.2020 10:30:38



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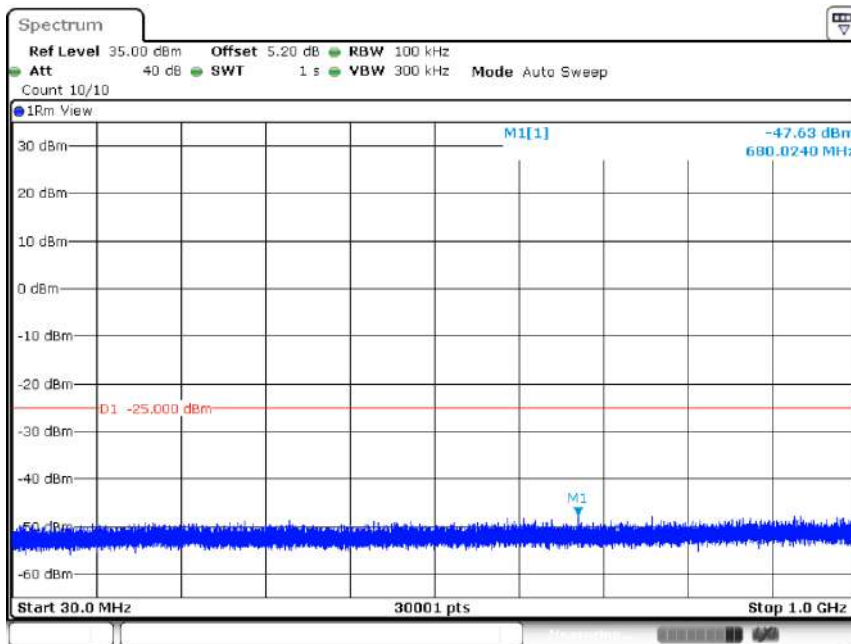


**Band41-20MHz-16QAM-40620-1RB#0-Range2:1000~30000MHz**



Date: 1 SEP.2020 10:30:54

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



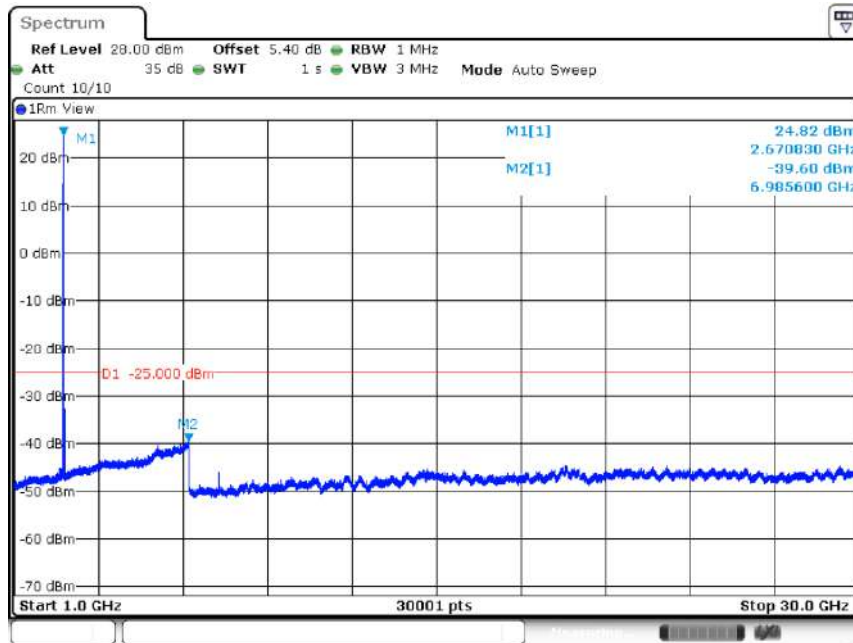
Date: 1 SEP.2020 10:31:48



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



Date: 1 SEP.2020 10:32:04



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## 7. Field Strength of Spurious Radiation

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

#### 7.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
116.8193	-65.42	-25.00	40.42	158	360	Vertical
559.4525	-65.46	-25.00	40.46	184	21	Vertical
4994.0665	-39.67	-25.00	14.67	196	21	Vertical
7491.6497	-43.70	-25.00	18.70	231	264	Vertical
9988.2329	-47.64	-25.00	22.64	262	198	Vertical
17995.9999	-39.71	-25.00	14.71	284	166	Vertical
41.1556	-64.44	-25.00	39.44	258	40	Horizontal
227.1139	-68.97	-25.00	43.97	274	300	Horizontal
2699.9400	-36.15	-25.00	11.15	159	91	Horizontal
4994.0665	-40.97	-25.00	15.97	196	172	Horizontal
7491.1497	-44.29	-25.00	19.29	321	140	Horizontal
16389.9463	-43.65	-25.00	18.65	262	265	Horizontal

#### 7.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
110.0290	-65.35	-25.00	40.35	258	340	Vertical
426.0708	-68.08	-25.00	43.08	274	12	Vertical
2998.7998	-37.90	-25.00	12.90	159	330	Vertical
5168.0723	-38.53	-25.00	13.53	196	67	Vertical
7752.1584	-44.42	-25.00	19.42	321	234	Vertical
17997.9999	-40.18	-25.00	15.18	166	340	Vertical
42.5136	-63.32	-25.00	38.32	187	74	Horizontal
239.9670	-68.17	-25.00	43.17	185	74	Horizontal
3000.0000	-38.44	-25.00	13.44	196	113	Horizontal
5168.0723	-39.62	-25.00	14.62	231	143	Horizontal
7752.1584	-47.06	-25.00	22.06	262	255	Horizontal
16405.4468	-43.49	-25.00	18.49	161	255	Horizontal



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**7.1.3. Test Channel = HCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
108.6224	-64.84	-25.00	39.84	258	320	Vertical
598.9334	-63.87	-25.00	38.87	184	110	Vertical
5342.0781	-37.99	-25.00	12.99	196	253	Vertical
8013.1671	-45.88	-25.00	20.88	321	220	Vertical
10683.7561	-48.58	-25.00	23.58	262	220	Vertical
17998.5000	-39.40	-25.00	14.40	214	253	Vertical
45.5208	-64.75	-25.00	39.75	158	145	Horizontal
231.1396	-68.07	-25.00	43.07	174	38	Horizontal
2997.1994	-38.52	-25.00	13.52	196	285	Horizontal
5342.0781	-37.19	-25.00	12.19	231	76	Horizontal
8013.1671	-47.13	-25.00	22.13	265	241	Horizontal
16390.9464	-42.92	-25.00	17.92	284	110	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	-2.20	-0.000878	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	VN	NT	5.00	0.001995	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	VH	NT	4.00	0.001596	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	VL	NT	-0.70	-0.000270	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	VN	NT	0.10	0.000039	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	VH	NT	3.60	0.001388	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	VL	NT	1.10	0.000410	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	VN	NT	-0.50	-0.000187	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	VH	NT	5.10	0.001903	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	VL	NT	1.10	0.000439	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	VN	NT	4.50	0.001796	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	VH	NT	3.00	0.001197	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	VL	NT	3.80	0.001465	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	VN	NT	2.50	0.000964	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	VH	NT	3.90	0.001504	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	VL	NT	4.90	0.001828	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	VN	NT	4.70	0.001754	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	VH	NT	1.10	0.000410	±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	5.80	0.002314	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	-20	2.80	0.001117	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	-10	5.50	0.002195	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	0	-0.80	-0.000319	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	10	3.40	0.001357	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	20	5.20	0.002075	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	30	2.90	0.001157	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	40	-0.30	-0.000120	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	50	-0.90	-0.000359	±2.5	PASS



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Band41	20MHz	QPSK	40620	100RB#0	NV	-30	-1.50	-0.000578	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-20	-1.80	-0.000694	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-10	3.20	0.001234	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	0	3.20	0.001234	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	10	-2.20	-0.000848	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	20	4.70	0.001813	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	30	4.40	0.001697	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	40	5.50	0.002121	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	50	2.10	0.000810	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	-30	1.50	0.000560	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	-20	6.60	0.002463	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	-10	1.50	0.000560	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	0	5.20	0.001940	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	10	6.40	0.002388	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	20	5.70	0.002127	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	30	6.60	0.002463	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	40	3.10	0.001157	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	50	5.90	0.002201	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	-30	-2.80	-0.001117	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	-20	2.30	0.000918	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	-10	6.80	0.002713	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	0	5.40	0.002155	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	10	-2.50	-0.000998	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	20	-0.70	-0.000279	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	30	3.90	0.001556	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	40	4.60	0.001836	±2.5	PASS
Band41	20MHz	16QAM	39750	100RB#0	NV	50	-1.00	-0.000399	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	-30	-2.10	-0.000810	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	-20	1.50	0.000578	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	-10	-1.50	-0.000578	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	0	3.90	0.001504	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	10	-1.90	-0.000733	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	20	0.80	0.000309	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	30	1.50	0.000578	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	40	-1.20	-0.000463	±2.5	PASS
Band41	20MHz	16QAM	40620	100RB#0	NV	50	4.30	0.001658	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	-30	7.30	0.002724	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	-20	0.10	0.000037	±2.5	PASS



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Band41	20MHz	16QAM	41490	100RB#0	NV	-10	0.30	0.000112	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	0	0.70	0.000261	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	10	2.00	0.000746	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	20	2.60	0.000970	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	30	0.30	0.000112	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	40	1.00	0.000373	±2.5	PASS
Band41	20MHz	16QAM	41490	100RB#0	NV	50	2.60	0.000970	±2.5	PASS



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