



# Appendix B

## E-UTRA Band 71



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# 1 Effective (Isotropic) Radiated Power

## 1.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	ERP (dBm)	limit (dBm)	Verdict
Band71	5MHz	QPSK	133147	1RB#0	22.74	17.44	36.98	PASS
Band71	5MHz	QPSK	133147	1RB#24	22.68	17.38	36.98	PASS
Band71	5MHz	QPSK	133147	1RB#12	22.68	17.38	36.98	PASS
Band71	5MHz	QPSK	133147	12RB#13	21.96	16.66	36.98	PASS
Band71	5MHz	QPSK	133147	12RB#0	21.79	16.49	36.98	PASS
Band71	5MHz	QPSK	133147	12RB#6	21.63	16.33	36.98	PASS
Band71	5MHz	QPSK	133147	25RB#0	21.82	16.52	36.98	PASS
Band71	5MHz	QPSK	133297	1RB#0	22.70	17.40	36.98	PASS
Band71	5MHz	QPSK	133297	1RB#12	22.68	17.38	36.98	PASS
Band71	5MHz	QPSK	133297	1RB#24	22.61	17.31	36.98	PASS
Band71	5MHz	QPSK	133297	12RB#13	21.86	16.56	36.98	PASS
Band71	5MHz	QPSK	133297	12RB#0	21.82	16.52	36.98	PASS
Band71	5MHz	QPSK	133297	12RB#6	21.63	16.33	36.98	PASS
Band71	5MHz	QPSK	133297	25RB#0	21.62	16.32	36.98	PASS
Band71	5MHz	QPSK	133447	1RB#12	22.65	17.35	36.98	PASS
Band71	5MHz	QPSK	133447	1RB#24	22.59	17.29	36.98	PASS
Band71	5MHz	QPSK	133447	1RB#0	22.64	17.34	36.98	PASS
Band71	5MHz	QPSK	133447	12RB#6	21.77	16.47	36.98	PASS
Band71	5MHz	QPSK	133447	12RB#13	21.75	16.45	36.98	PASS
Band71	5MHz	QPSK	133447	12RB#0	21.74	16.44	36.98	PASS
Band71	5MHz	QPSK	133447	25RB#0	21.72	16.42	36.98	PASS
Band71	5MHz	16QAM	133147	1RB#12	21.67	16.37	36.98	PASS
Band71	5MHz	16QAM	133147	1RB#24	21.92	16.62	36.98	PASS
Band71	5MHz	16QAM	133147	1RB#0	21.87	16.57	36.98	PASS
Band71	5MHz	16QAM	133147	12RB#0	20.81	15.51	36.98	PASS
Band71	5MHz	16QAM	133147	12RB#6	20.76	15.46	36.98	PASS
Band71	5MHz	16QAM	133147	12RB#13	20.76	15.46	36.98	PASS



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Band71	5MHz	16QAM	133147	25RB#0	20.90	15.60	36.98	PASS
Band71	5MHz	16QAM	133297	1RB#0	21.58	16.28	36.98	PASS
Band71	5MHz	16QAM	133297	1RB#12	21.79	16.49	36.98	PASS
Band71	5MHz	16QAM	133297	1RB#24	21.92	16.62	36.98	PASS
Band71	5MHz	16QAM	133297	12RB#6	20.74	15.44	36.98	PASS
Band71	5MHz	16QAM	133297	12RB#0	20.89	15.59	36.98	PASS
Band71	5MHz	16QAM	133297	12RB#13	20.70	15.40	36.98	PASS
Band71	5MHz	16QAM	133297	25RB#0	20.77	15.47	36.98	PASS
Band71	5MHz	16QAM	133447	1RB#0	21.73	16.43	36.98	PASS
Band71	5MHz	16QAM	133447	1RB#12	21.93	16.63	36.98	PASS
Band71	5MHz	16QAM	133447	1RB#24	22.02	16.72	36.98	PASS
Band71	5MHz	16QAM	133447	12RB#0	20.69	15.39	36.98	PASS
Band71	5MHz	16QAM	133447	12RB#6	20.80	15.50	36.98	PASS
Band71	5MHz	16QAM	133447	12RB#13	20.86	15.56	36.98	PASS
Band71	5MHz	16QAM	133447	25RB#0	20.80	15.50	36.98	PASS
Band71	10MHz	QPSK	133172	1RB#0	22.71	17.41	36.98	PASS
Band71	10MHz	QPSK	133172	1RB#24	22.85	17.55	36.98	PASS
Band71	10MHz	QPSK	133172	1RB#49	22.66	17.36	36.98	PASS
Band71	10MHz	QPSK	133172	25RB#0	21.83	16.53	36.98	PASS
Band71	10MHz	QPSK	133172	25RB#12	21.78	16.48	36.98	PASS
Band71	10MHz	QPSK	133172	25RB#25	21.68	16.38	36.98	PASS
Band71	10MHz	QPSK	133172	50RB#0	21.91	16.61	36.98	PASS
Band71	10MHz	QPSK	133297	1RB#0	22.57	17.27	36.98	PASS
Band71	10MHz	QPSK	133297	1RB#24	22.70	17.40	36.98	PASS
Band71	10MHz	QPSK	133297	1RB#49	22.53	17.23	36.98	PASS
Band71	10MHz	QPSK	133297	25RB#25	21.71	16.41	36.98	PASS
Band71	10MHz	QPSK	133297	25RB#0	21.78	16.48	36.98	PASS
Band71	10MHz	QPSK	133297	25RB#12	21.64	16.34	36.98	PASS
Band71	10MHz	QPSK	133297	50RB#0	21.81	16.51	36.98	PASS
Band71	10MHz	QPSK	133422	1RB#49	22.59	17.29	36.98	PASS
Band71	10MHz	QPSK	133422	1RB#0	22.69	17.39	36.98	PASS
Band71	10MHz	QPSK	133422	1RB#24	22.65	17.35	36.98	PASS
Band71	10MHz	QPSK	133422	25RB#25	21.78	16.48	36.98	PASS



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Band71	10MHz	QPSK	133422	25RB#0	21.75	16.45	36.98	PASS
Band71	10MHz	QPSK	133422	25RB#12	21.77	16.47	36.98	PASS
Band71	10MHz	QPSK	133422	50RB#0	21.83	16.53	36.98	PASS
Band71	10MHz	16QAM	133172	1RB#24	21.66	16.36	36.98	PASS
Band71	10MHz	16QAM	133172	1RB#0	21.84	16.54	36.98	PASS
Band71	10MHz	16QAM	133172	1RB#49	21.79	16.49	36.98	PASS
Band71	10MHz	16QAM	133172	25RB#0	20.68	15.38	36.98	PASS
Band71	10MHz	16QAM	133172	25RB#12	20.96	15.66	36.98	PASS
Band71	10MHz	16QAM	133172	25RB#25	20.80	15.50	36.98	PASS
Band71	10MHz	16QAM	133172	50RB#0	20.84	15.54	36.98	PASS
Band71	10MHz	16QAM	133297	1RB#49	21.52	16.22	36.98	PASS
Band71	10MHz	16QAM	133297	1RB#0	21.80	16.50	36.98	PASS
Band71	10MHz	16QAM	133297	1RB#24	21.90	16.60	36.98	PASS
Band71	10MHz	16QAM	133297	25RB#25	20.85	15.55	36.98	PASS
Band71	10MHz	16QAM	133297	25RB#12	20.83	15.53	36.98	PASS
Band71	10MHz	16QAM	133297	25RB#0	20.67	15.37	36.98	PASS
Band71	10MHz	16QAM	133297	50RB#0	20.81	15.51	36.98	PASS
Band71	10MHz	16QAM	133422	1RB#49	21.78	16.48	36.98	PASS
Band71	10MHz	16QAM	133422	1RB#0	21.91	16.61	36.98	PASS
Band71	10MHz	16QAM	133422	1RB#24	22.00	16.70	36.98	PASS
Band71	10MHz	16QAM	133422	25RB#0	20.80	15.50	36.98	PASS
Band71	10MHz	16QAM	133422	25RB#25	20.69	15.39	36.98	PASS
Band71	10MHz	16QAM	133422	25RB#12	20.89	15.59	36.98	PASS
Band71	10MHz	16QAM	133422	50RB#0	20.83	15.53	36.98	PASS
Band71	15MHz	QPSK	133197	1RB#0	22.65	17.35	36.98	PASS
Band71	15MHz	QPSK	133197	1RB#38	22.82	17.52	36.98	PASS
Band71	15MHz	QPSK	133197	1RB#74	22.69	17.39	36.98	PASS
Band71	15MHz	QPSK	133197	36RB#0	21.89	16.59	36.98	PASS
Band71	15MHz	QPSK	133197	36RB#39	21.71	16.41	36.98	PASS
Band71	15MHz	QPSK	133197	36RB#18	21.70	16.40	36.98	PASS
Band71	15MHz	QPSK	133197	75RB#0	21.86	16.56	36.98	PASS
Band71	15MHz	QPSK	133297	1RB#74	22.62	17.32	36.98	PASS
Band71	15MHz	QPSK	133297	1RB#38	22.72	17.42	36.98	PASS



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Band71	15MHz	QPSK	133297	1RB#0	22.57	17.27	36.98	PASS
Band71	15MHz	QPSK	133297	36RB#0	21.82	16.52	36.98	PASS
Band71	15MHz	QPSK	133297	36RB#39	21.83	16.53	36.98	PASS
Band71	15MHz	QPSK	133297	36RB#18	21.71	16.41	36.98	PASS
Band71	15MHz	QPSK	133297	75RB#0	21.74	16.44	36.98	PASS
Band71	15MHz	QPSK	133397	1RB#38	22.66	17.36	36.98	PASS
Band71	15MHz	QPSK	133397	1RB#74	22.50	17.20	36.98	PASS
Band71	15MHz	QPSK	133397	1RB#0	22.61	17.31	36.98	PASS
Band71	15MHz	QPSK	133397	36RB#0	21.76	16.46	36.98	PASS
Band71	15MHz	QPSK	133397	36RB#18	21.80	16.50	36.98	PASS
Band71	15MHz	QPSK	133397	36RB#39	21.75	16.45	36.98	PASS
Band71	15MHz	QPSK	133397	75RB#0	21.65	16.35	36.98	PASS
Band71	15MHz	16QAM	133197	1RB#0	21.54	16.24	36.98	PASS
Band71	15MHz	16QAM	133197	1RB#38	21.86	16.56	36.98	PASS
Band71	15MHz	16QAM	133197	1RB#74	21.74	16.44	36.98	PASS
Band71	15MHz	16QAM	133197	36RB#0	20.72	15.42	36.98	PASS
Band71	15MHz	16QAM	133197	36RB#18	20.83	15.53	36.98	PASS
Band71	15MHz	16QAM	133197	36RB#39	20.80	15.50	36.98	PASS
Band71	15MHz	16QAM	133197	75RB#0	20.92	15.62	36.98	PASS
Band71	15MHz	16QAM	133297	1RB#38	21.53	16.23	36.98	PASS
Band71	15MHz	16QAM	133297	1RB#0	21.81	16.51	36.98	PASS
Band71	15MHz	16QAM	133297	1RB#74	21.89	16.59	36.98	PASS
Band71	15MHz	16QAM	133297	36RB#39	20.78	15.48	36.98	PASS
Band71	15MHz	16QAM	133297	36RB#0	20.83	15.53	36.98	PASS
Band71	15MHz	16QAM	133297	36RB#18	20.64	15.34	36.98	PASS
Band71	15MHz	16QAM	133297	75RB#0	20.72	15.42	36.98	PASS
Band71	15MHz	16QAM	133397	1RB#38	21.77	16.47	36.98	PASS
Band71	15MHz	16QAM	133397	1RB#74	21.91	16.61	36.98	PASS
Band71	15MHz	16QAM	133397	1RB#0	22.02	16.72	36.98	PASS
Band71	15MHz	16QAM	133397	36RB#39	20.77	15.47	36.98	PASS
Band71	15MHz	16QAM	133397	36RB#18	20.69	15.39	36.98	PASS
Band71	15MHz	16QAM	133397	36RB#0	20.84	15.54	36.98	PASS
Band71	15MHz	16QAM	133397	75RB#0	20.71	15.41	36.98	PASS



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Band71	20MHz	QPSK	133222	1RB#49	22.66	17.36	36.98	PASS
Band71	20MHz	QPSK	133222	1RB#99	22.67	17.37	36.98	PASS
Band71	20MHz	QPSK	133222	50RB#50	21.79	16.49	36.98	PASS
Band71	20MHz	QPSK	133222	50RB#0	21.71	16.41	36.98	PASS
Band71	20MHz	QPSK	133222	50RB#25	21.66	16.36	36.98	PASS
Band71	20MHz	QPSK	133222	100RB#0	21.81	16.51	36.98	PASS
Band71	20MHz	QPSK	133322	1RB#99	22.65	17.35	36.98	PASS
Band71	20MHz	QPSK	133322	1RB#0	22.75	17.45	36.98	PASS
Band71	20MHz	QPSK	133322	1RB#49	22.57	17.27	36.98	PASS
Band71	20MHz	QPSK	133322	50RB#25	21.88	16.58	36.98	PASS
Band71	20MHz	QPSK	133322	50RB#50	21.78	16.48	36.98	PASS
Band71	20MHz	QPSK	133322	50RB#0	21.67	16.37	36.98	PASS
Band71	20MHz	QPSK	133322	100RB#0	21.71	16.41	36.98	PASS
Band71	20MHz	QPSK	133372	1RB#99	22.56	17.26	36.98	PASS
Band71	20MHz	QPSK	133372	1RB#49	22.59	17.29	36.98	PASS
Band71	20MHz	QPSK	133372	1RB#0	22.60	17.30	36.98	PASS
Band71	20MHz	QPSK	133372	50RB#25	21.80	16.50	36.98	PASS
Band71	20MHz	QPSK	133372	50RB#0	21.82	16.52	36.98	PASS
Band71	20MHz	QPSK	133372	50RB#50	21.77	16.47	36.98	PASS
Band71	20MHz	QPSK	133372	100RB#0	21.73	16.43	36.98	PASS
Band71	20MHz	16QAM	133222	1RB#99	21.50	16.20	36.98	PASS
Band71	20MHz	16QAM	133222	1RB#0	21.87	16.57	36.98	PASS
Band71	20MHz	16QAM	133222	1RB#49	21.80	16.50	36.98	PASS
Band71	20MHz	16QAM	133222	50RB#0	20.75	15.45	36.98	PASS
Band71	20MHz	16QAM	133222	50RB#25	20.86	15.56	36.98	PASS
Band71	20MHz	16QAM	133222	50RB#50	20.70	15.40	36.98	PASS
Band71	20MHz	16QAM	133222	100RB#0	20.82	15.52	36.98	PASS
Band71	20MHz	16QAM	133322	1RB#0	21.56	16.26	36.98	PASS
Band71	20MHz	16QAM	133322	1RB#49	21.88	16.58	36.98	PASS
Band71	20MHz	16QAM	133322	1RB#99	21.87	16.57	36.98	PASS
Band71	20MHz	16QAM	133322	50RB#25	20.81	15.51	36.98	PASS
Band71	20MHz	16QAM	133322	50RB#0	20.80	15.50	36.98	PASS



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Band71	20MHz	16QAM	133322	50RB#50	20.73	15.43	36.98	PASS
Band71	20MHz	16QAM	133322	100RB#0	20.77	15.47	36.98	PASS
Band71	20MHz	16QAM	133372	1RB#0	21.77	16.47	36.98	PASS
Band71	20MHz	16QAM	133372	1RB#49	21.91	16.61	36.98	PASS
Band71	20MHz	16QAM	133372	1RB#99	21.92	16.62	36.98	PASS
Band71	20MHz	16QAM	133372	50RB#0	20.78	15.48	36.98	PASS
Band71	20MHz	16QAM	133372	50RB#25	20.78	15.48	36.98	PASS
Band71	20MHz	16QAM	133372	50RB#50	20.81	15.51	36.98	PASS
Band71	20MHz	16QAM	133372	100RB#0	20.78	15.48	36.98	PASS

Remark:

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

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

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

The conducted Power is measured by Base Station Simulator



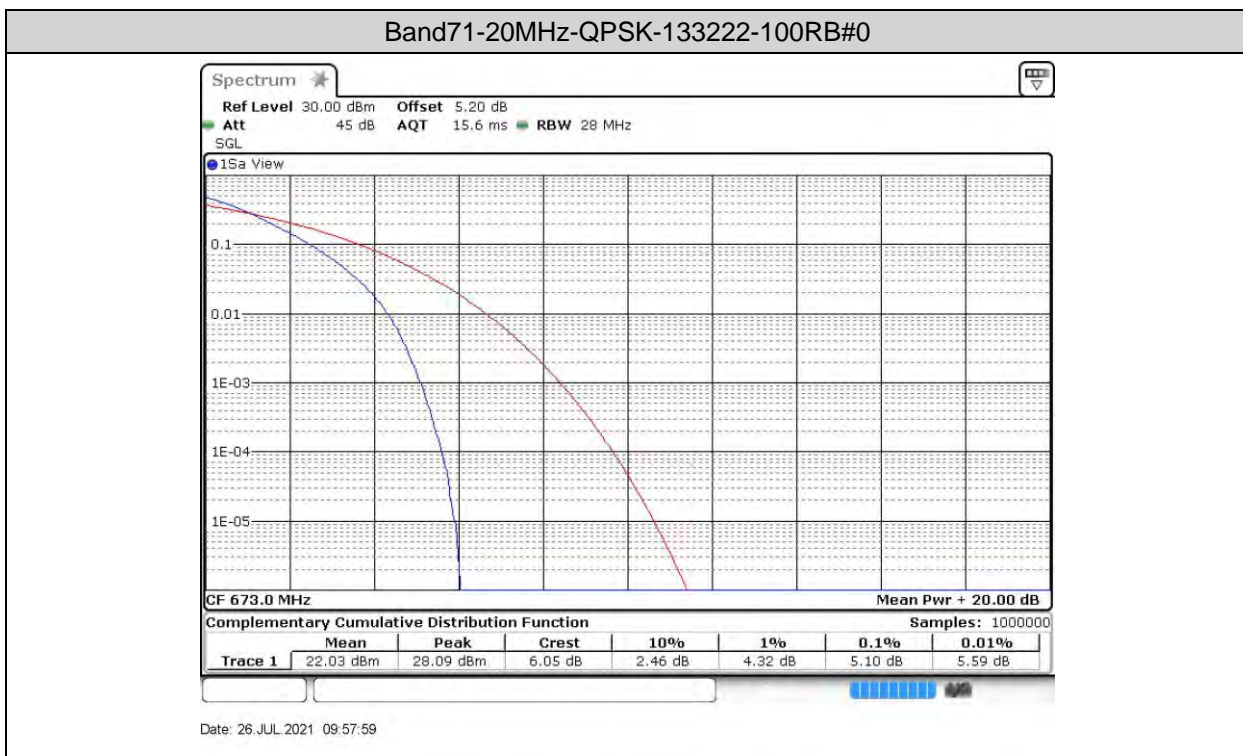
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## 2. Peak-to-Average Ratio (CCDF)

### 2.1. Test Result

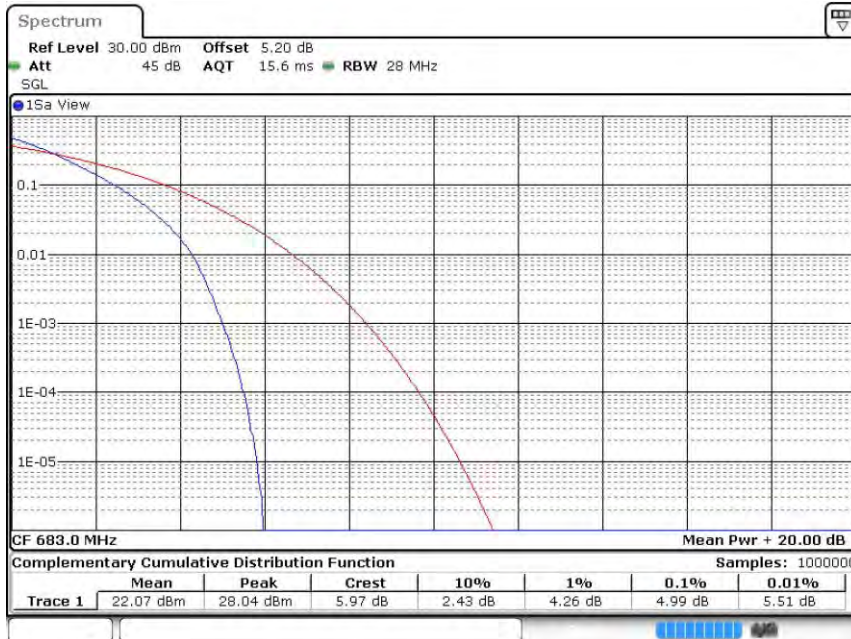
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band71	20MHz	QPSK	133222	100RB#0	5.10	13	PASS
Band71	20MHz	QPSK	133322	100RB#0	4.99	13	PASS
Band71	20MHz	QPSK	133372	100RB#0	5.07	13	PASS
Band71	20MHz	16QAM	133222	100RB#0	5.97	13	PASS
Band71	20MHz	16QAM	133322	100RB#0	5.94	13	PASS
Band71	20MHz	16QAM	133372	100RB#0	5.97	13	PASS

### 2.2. Test Plots



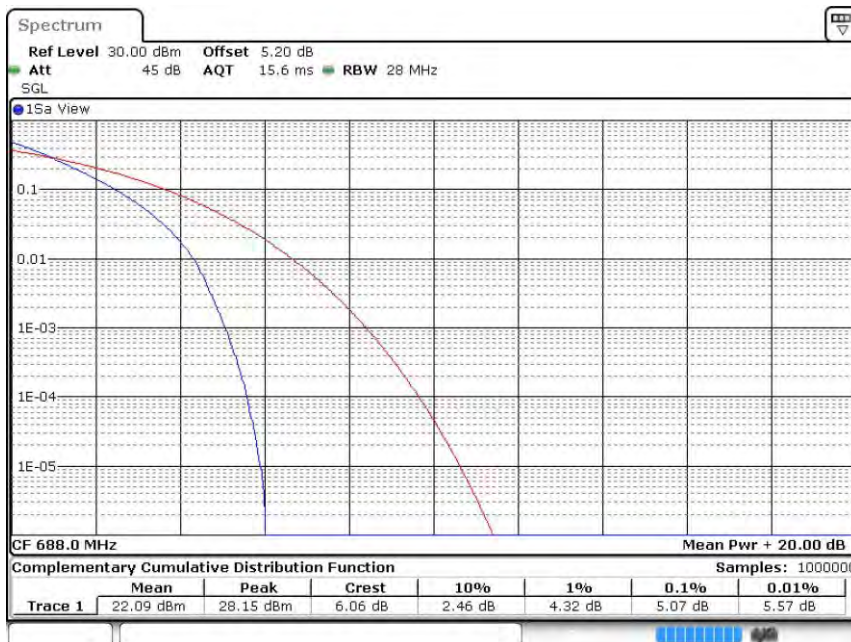


**Band71-20MHz-QPSK-133322-100RB#0**



Date: 26 JUL 2021 09:58:32

**Band71-20MHz-QPSK-133372-100RB#0**

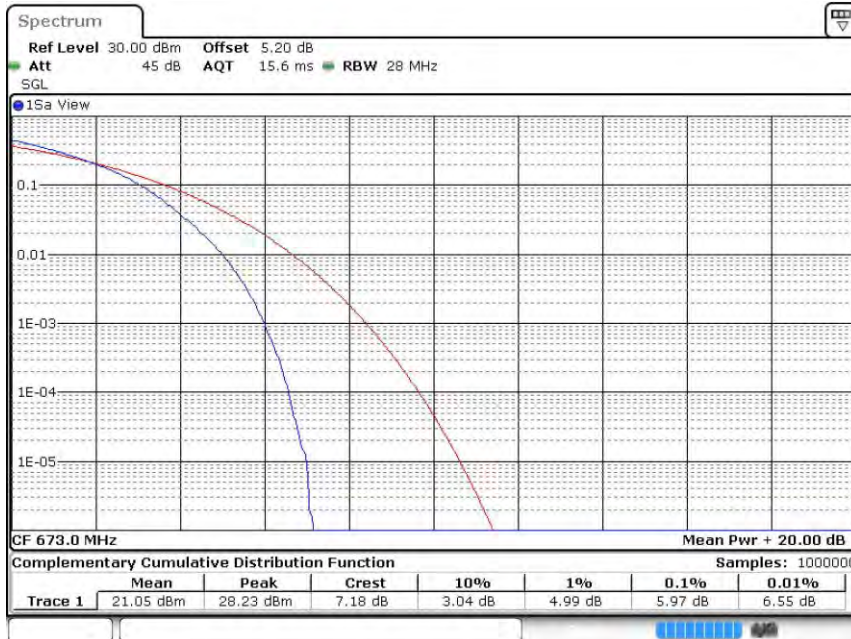


Date: 26 JUL 2021 09:59:04



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**Band71-20MHz-16QAM-133222-100RB#0**



Date: 26 JUL 2021 09:58:15

**Band71-20MHz-16QAM-133322-100RB#0**

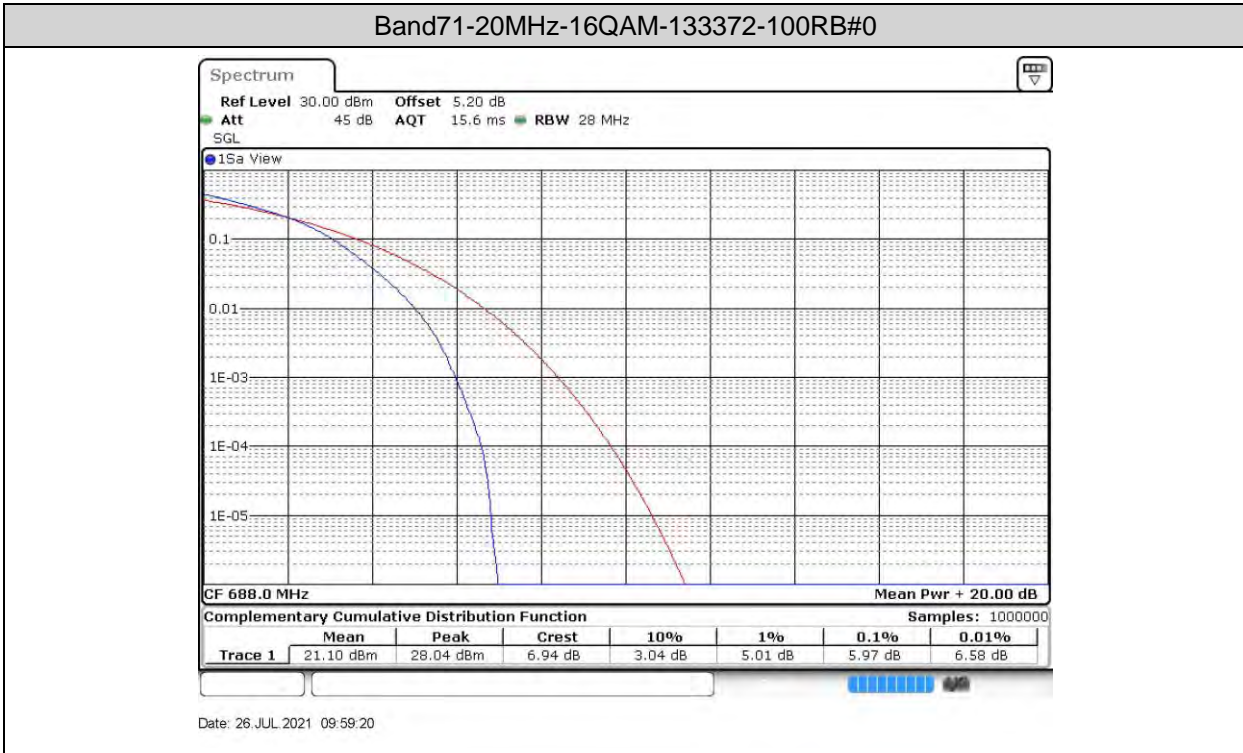


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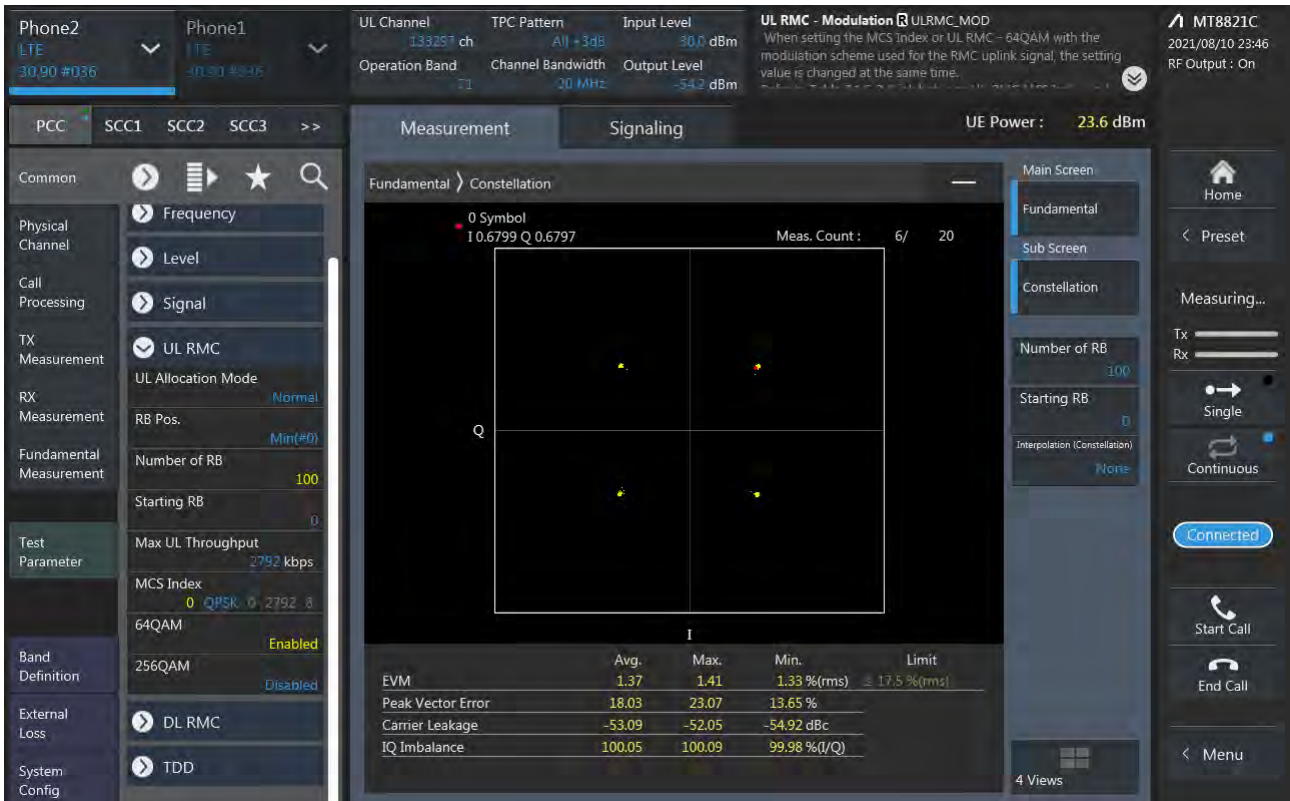
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### 3. Modulation Characteristics

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

##### 3.1.1. Test Channel = MCH



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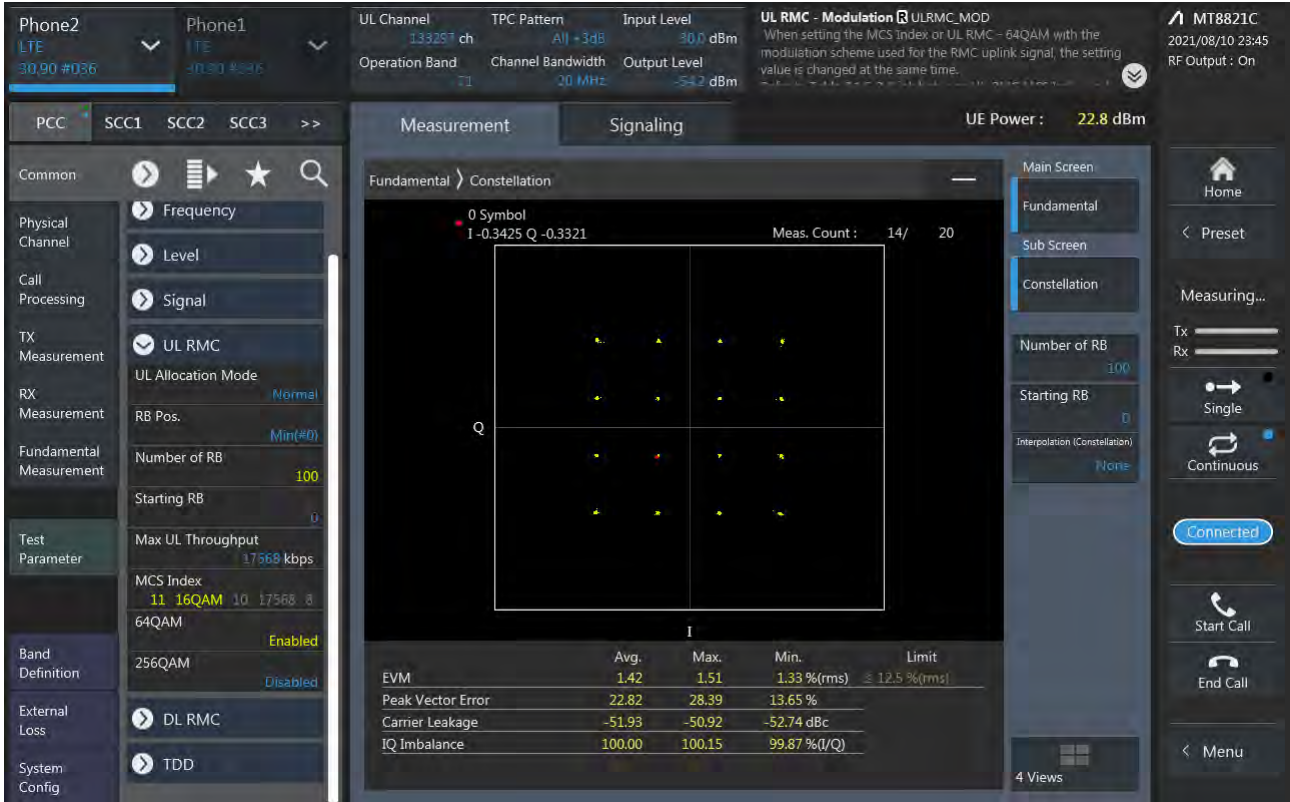
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### 3.2. Test Mode = LTE /TM2 20MHz

#### 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
Band71	5MHz	QPSK	133147	25RB#0	4.466	4.900	PASS
Band71	5MHz	QPSK	133297	25RB#0	4.466	4.910	PASS
Band71	5MHz	QPSK	133447	25RB#0	4.466	4.900	PASS
Band71	5MHz	16QAM	133147	25RB#0	4.476	4.960	PASS
Band71	5MHz	16QAM	133297	25RB#0	4.466	4.950	PASS
Band71	5MHz	16QAM	133447	25RB#0	4.466	4.950	PASS
Band71	10MHz	QPSK	133172	50RB#0	8.891	9.700	PASS
Band71	10MHz	QPSK	133297	50RB#0	8.911	9.640	PASS
Band71	10MHz	QPSK	133422	50RB#0	8.931	9.660	PASS
Band71	10MHz	16QAM	133172	50RB#0	8.891	9.660	PASS
Band71	10MHz	16QAM	133297	50RB#0	8.891	9.640	PASS
Band71	10MHz	16QAM	133422	50RB#0	8.911	9.680	PASS
Band71	15MHz	QPSK	133197	75RB#0	13.457	14.760	PASS
Band71	15MHz	QPSK	133297	75RB#0	13.457	14.760	PASS
Band71	15MHz	QPSK	133397	75RB#0	13.487	14.790	PASS
Band71	15MHz	16QAM	133197	75RB#0	13.427	14.850	PASS
Band71	15MHz	16QAM	133297	75RB#0	13.397	14.820	PASS
Band71	15MHz	16QAM	133397	75RB#0	13.457	14.850	PASS
Band71	20MHz	QPSK	133222	100RB#0	17.942	19.080	PASS
Band71	20MHz	QPSK	133322	100RB#0	17.902	19.400	PASS
Band71	20MHz	QPSK	133372	100RB#0	17.862	19.480	PASS
Band71	20MHz	16QAM	133222	100RB#0	17.822	19.120	PASS
Band71	20MHz	16QAM	133322	100RB#0	17.822	19.360	PASS
Band71	20MHz	16QAM	133372	100RB#0	17.862	19.360	PASS



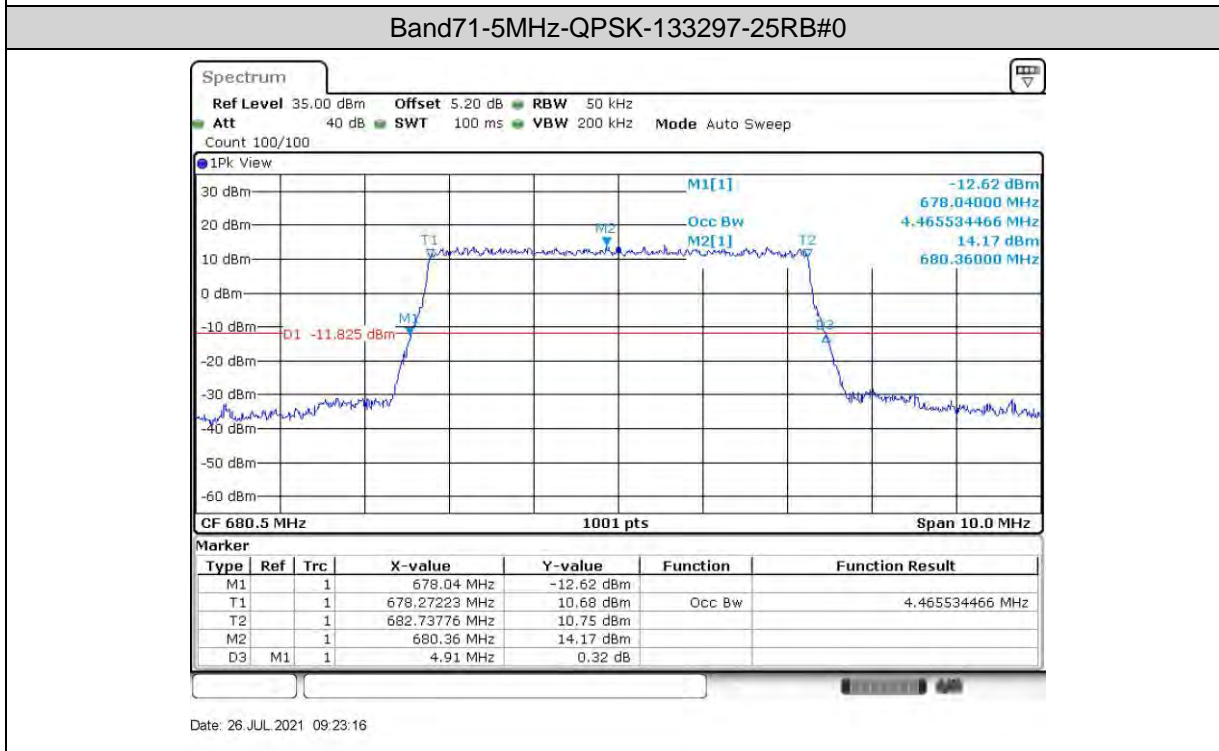
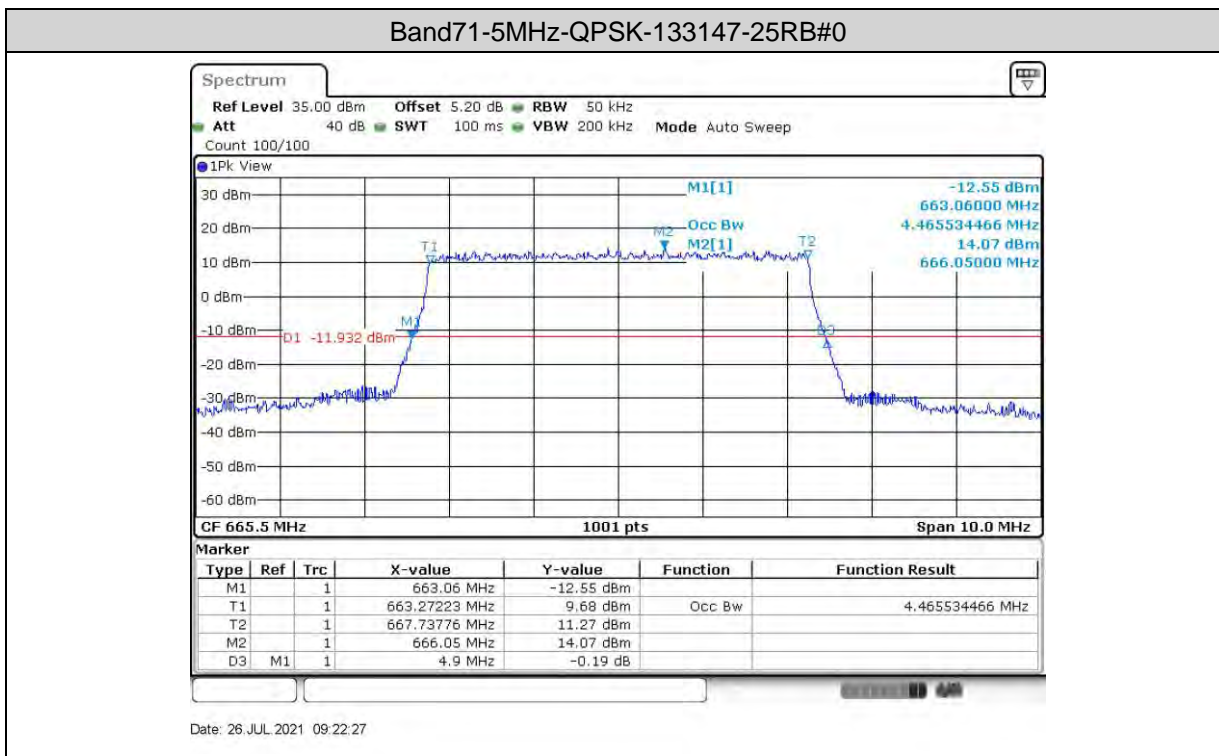
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### 4.2. Test Plots

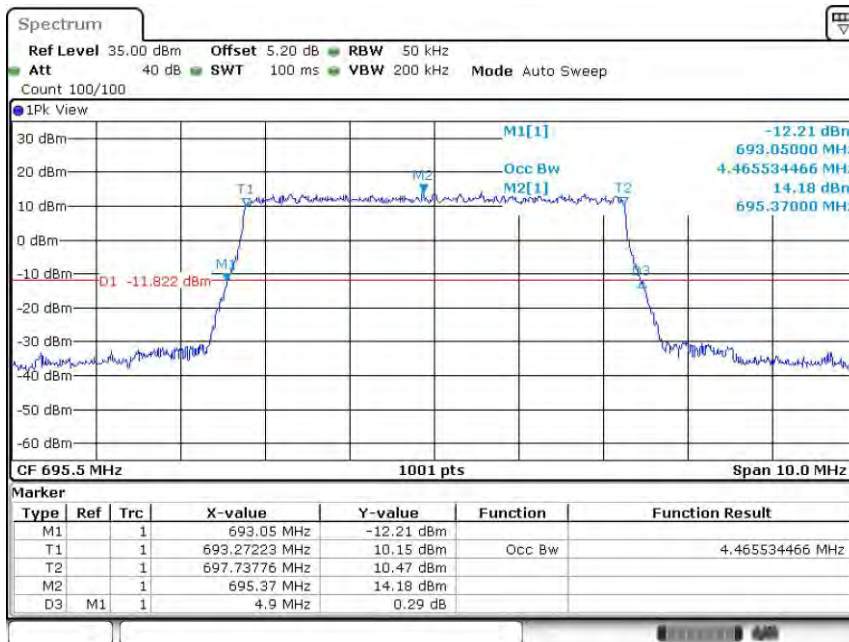


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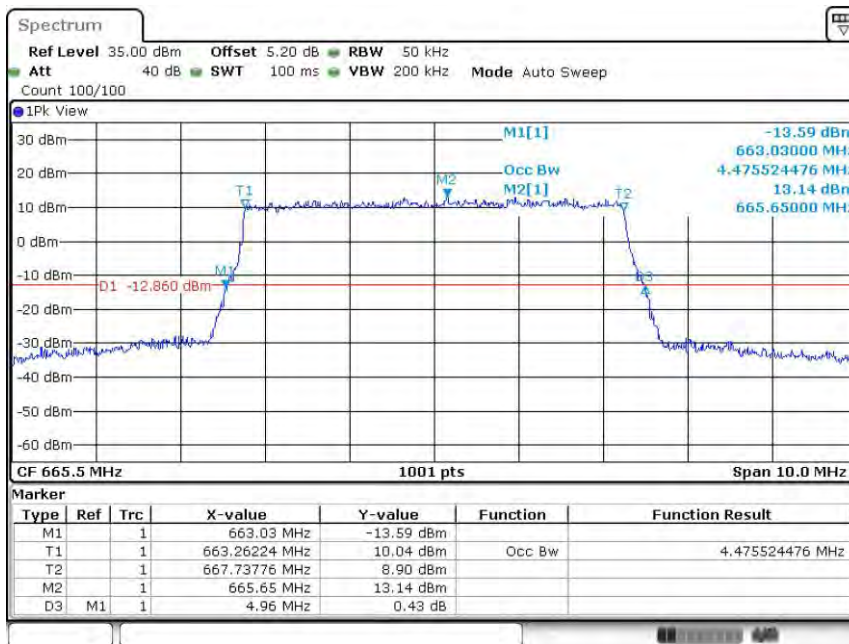
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**Band71-5MHz-QPSK-133447-25RB#0**



Date: 26 JUL 2021 09:24:06

**Band71-5MHz-16QAM-133147-25RB#0**



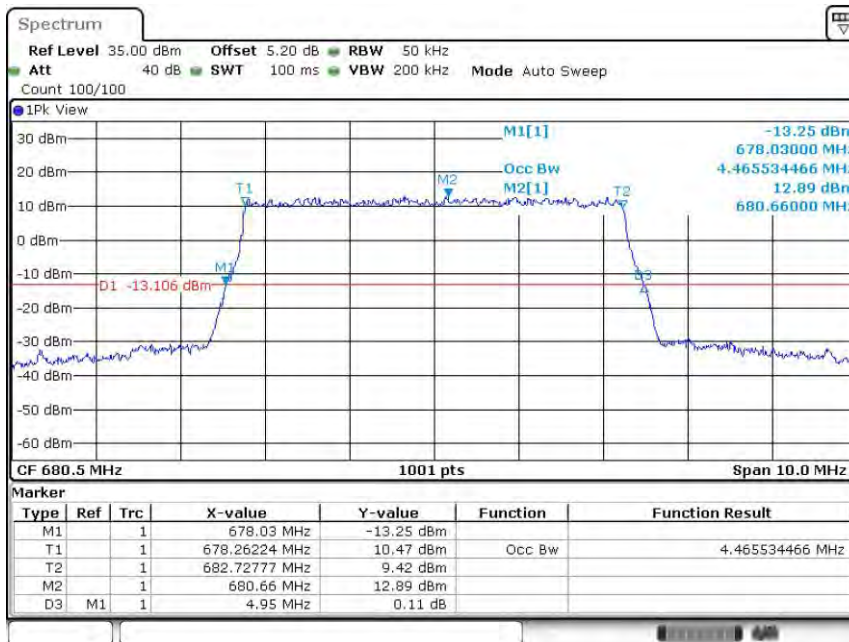
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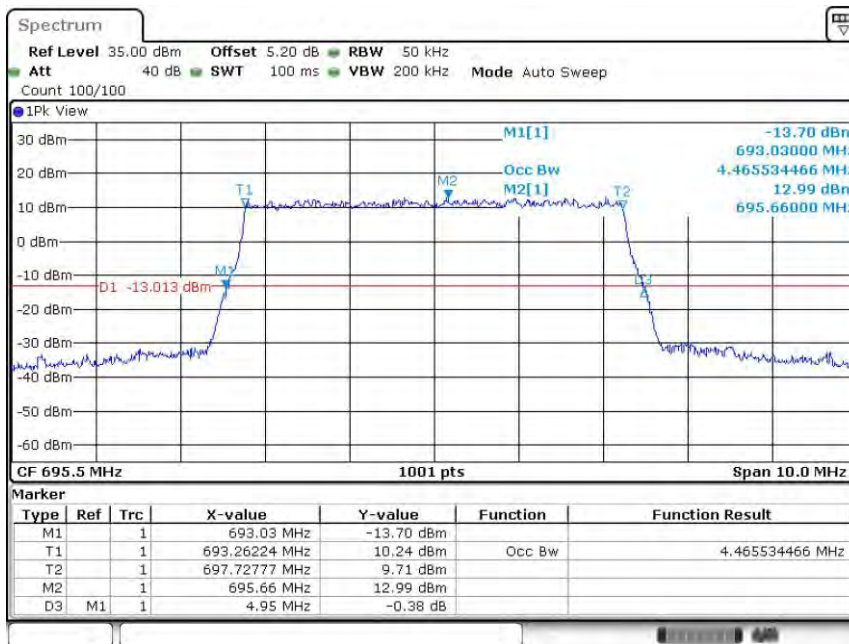


**Band71-5MHz-16QAM-133297-25RB#0**



Date: 26 JUL 2021 09:23:41

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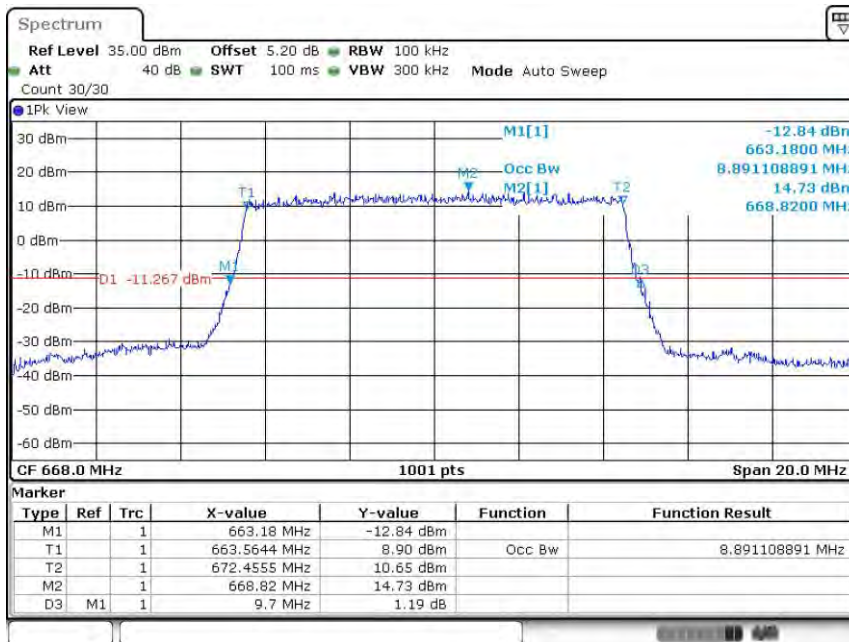


Date: 26 JUL 2021 09:24:31



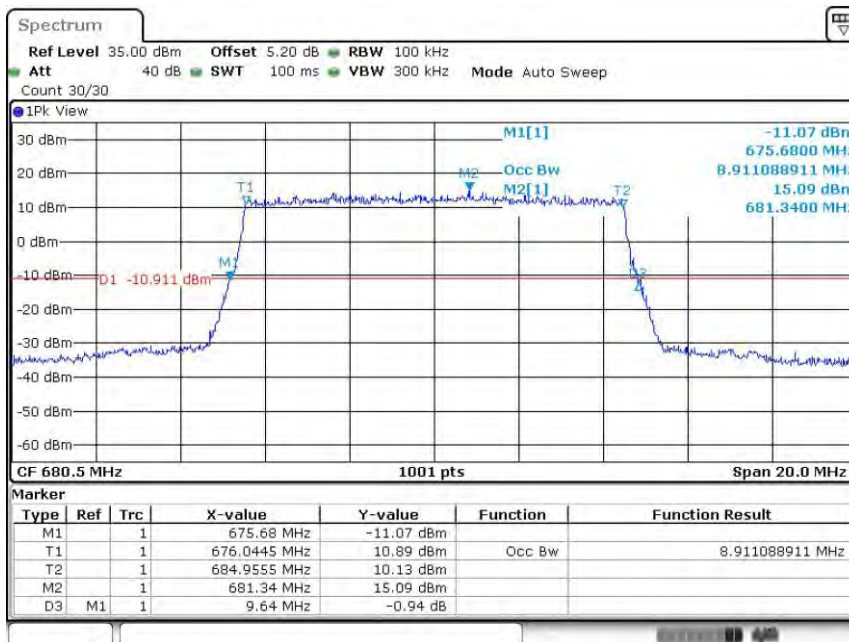
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**Band71-10MHz-QPSK-133172-50RB#0**



Date: 5.AUG.2021 19:18:31

**Band71-10MHz-QPSK-133297-50RB#0**



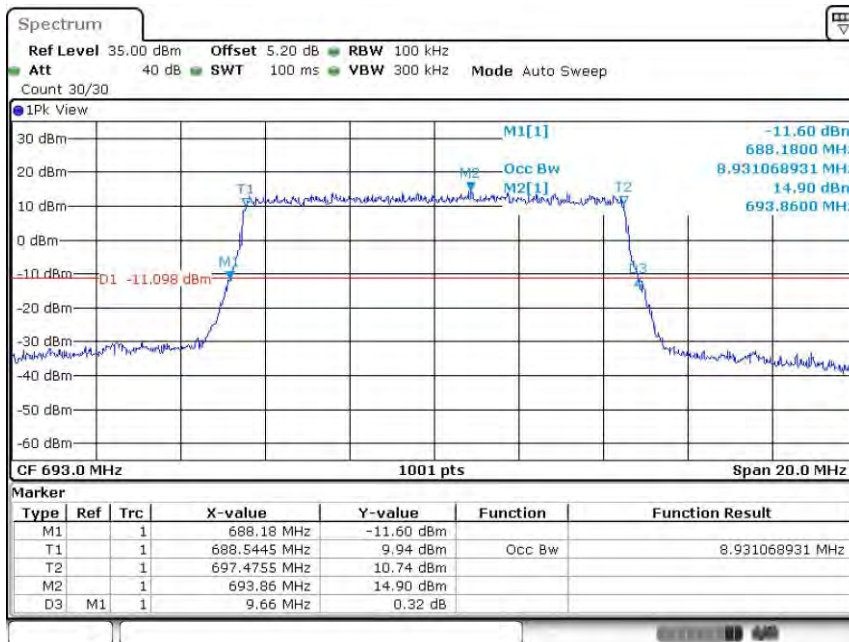
Date: 5.AUG.2021 19:19:04



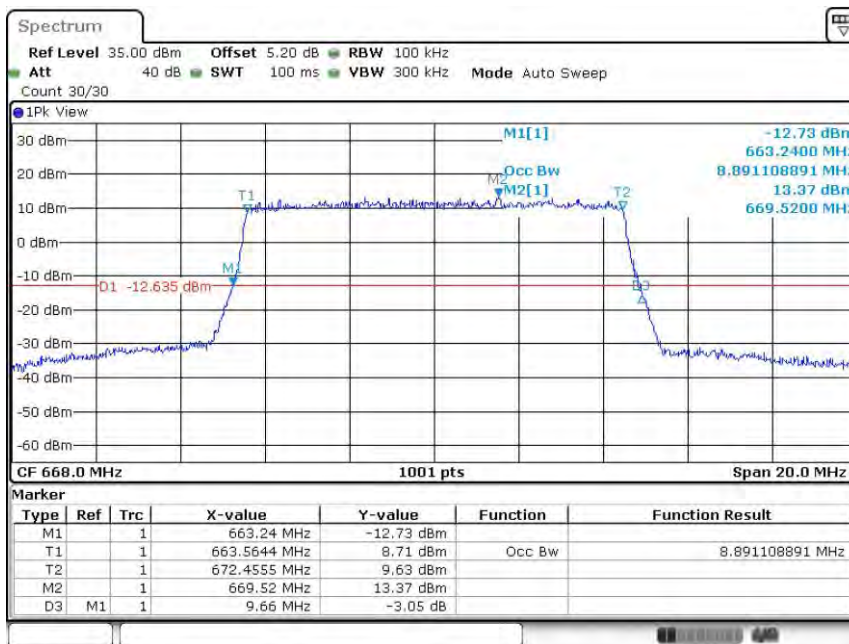
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**Band71-10MHz-QPSK-133422-50RB#0**

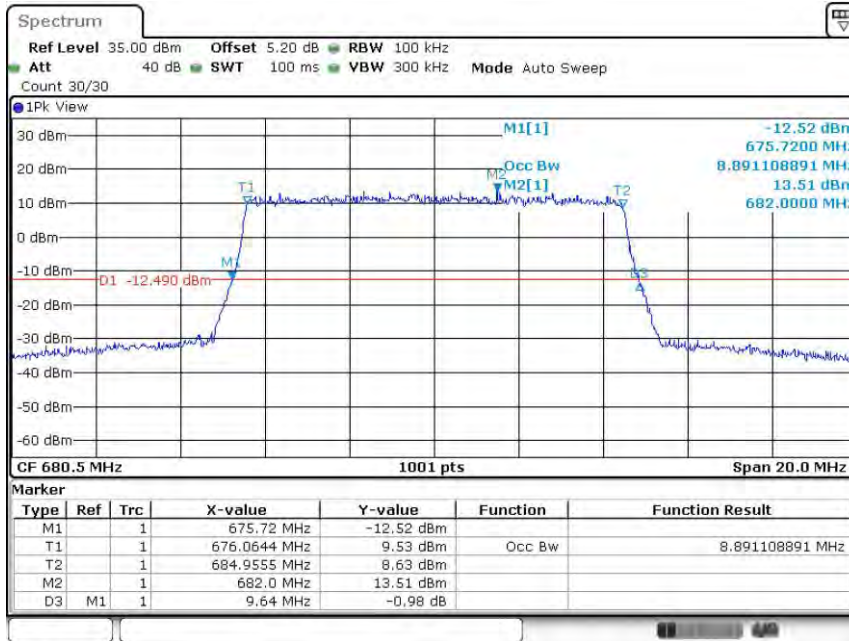


**Band71-10MHz-16QAM-133172-50RB#0**



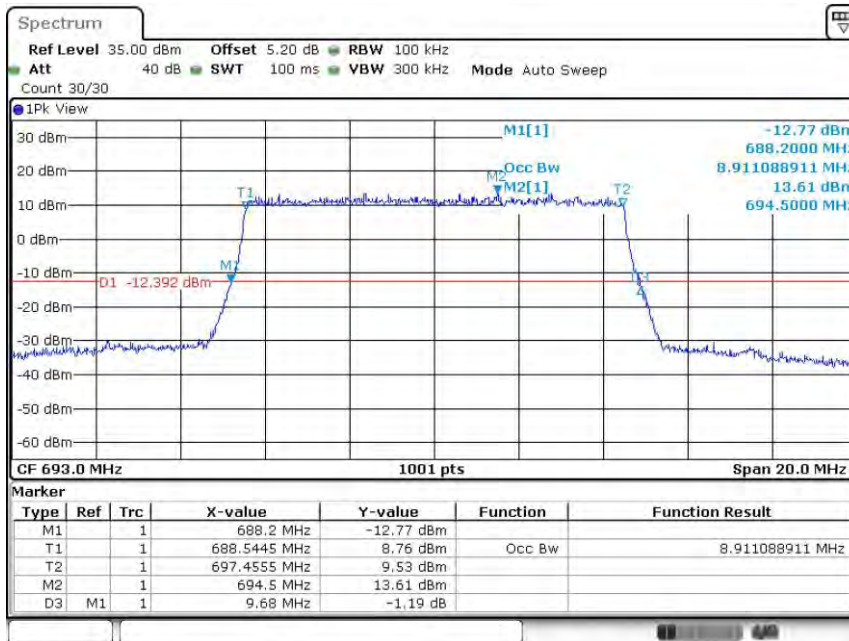
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**Band71-10MHz-16QAM-133297-50RB#0**



Date: 5.AUG.2021 19:19:20

**Band71-10MHz-16QAM-133422-50RB#0**



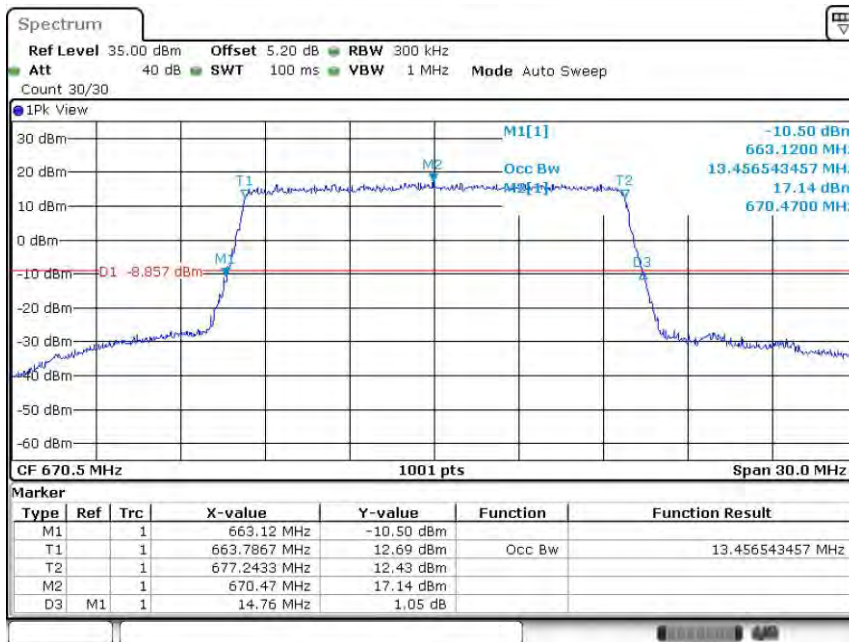
Date: 5.AUG.2021 19:19:53



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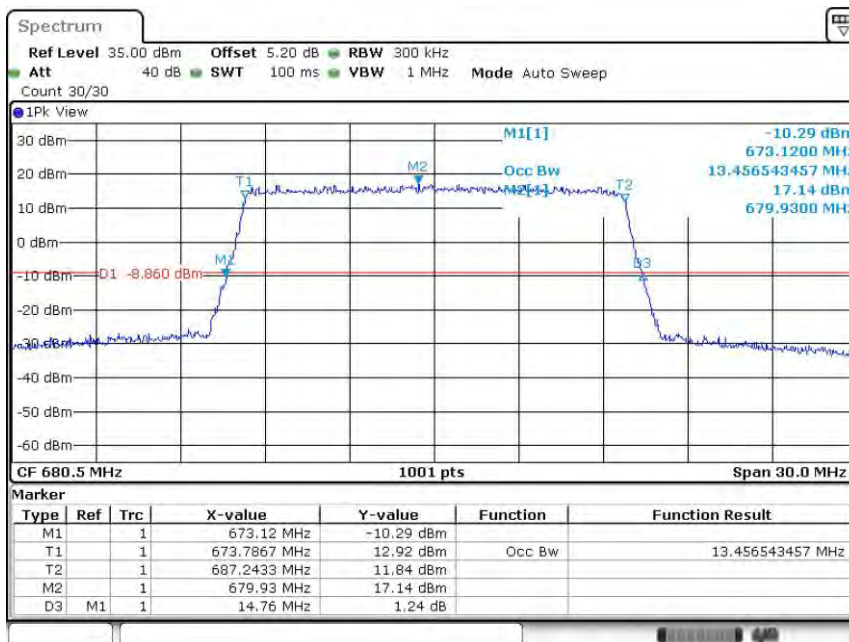


**Band71-15MHz-QPSK-133197-75RB#0**



Date: 5.AUG.2021 19:20:29

**Band71-15MHz-QPSK-133297-75RB#0**

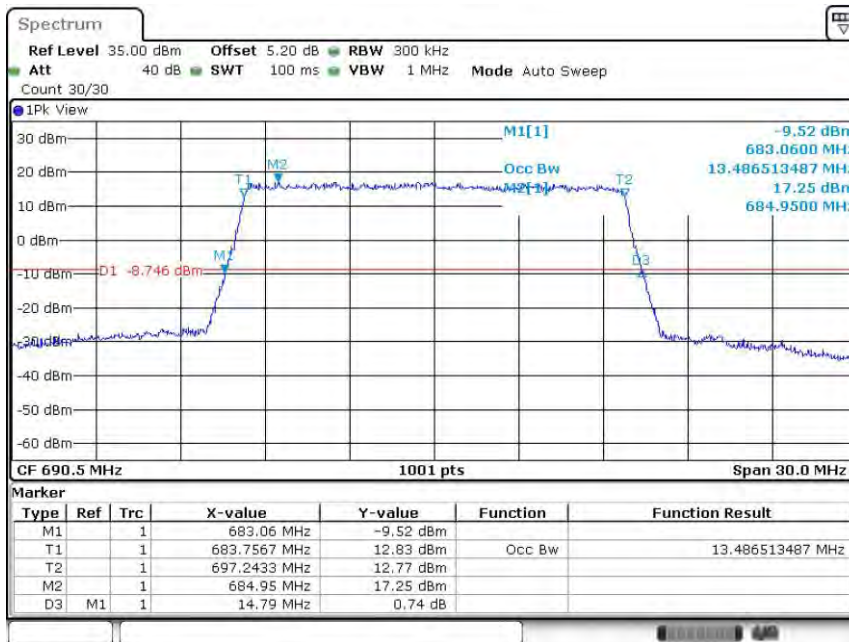


Date: 5.AUG.2021 19:21:02



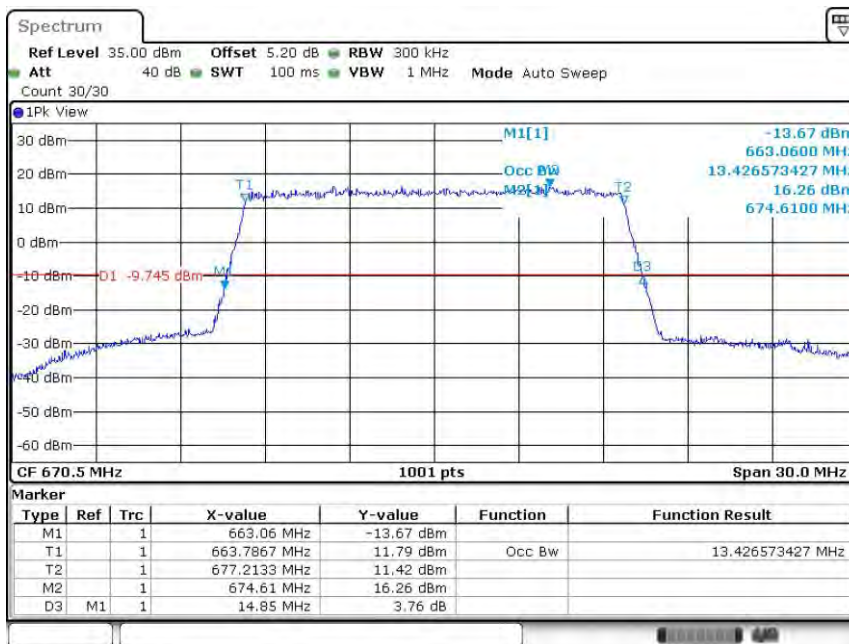
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**Band71-15MHz-QPSK-133397-75RB#0**



Date: 5.AUG.2021 19:21:35

**Band71-15MHz-16QAM-133197-75RB#0**



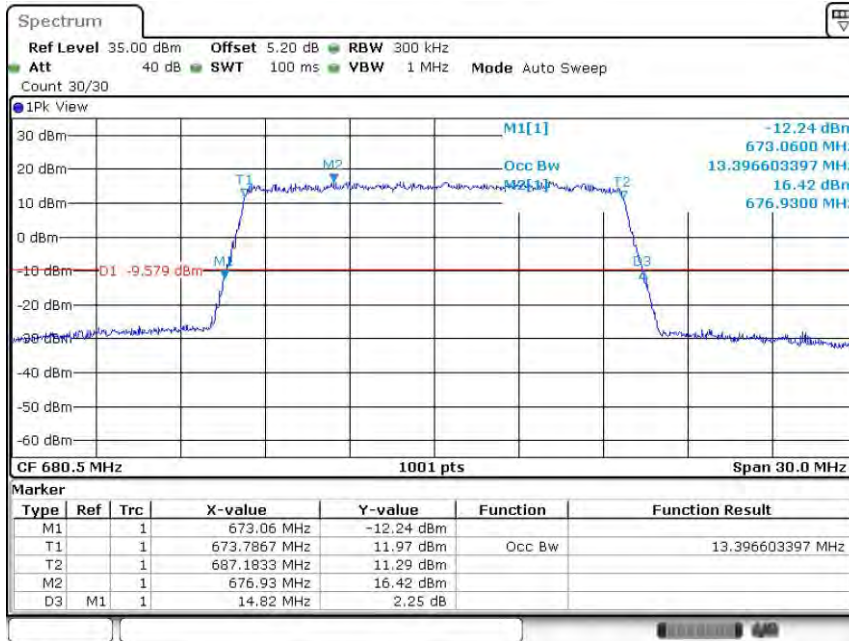
Date: 5.AUG.2021 19:20:45



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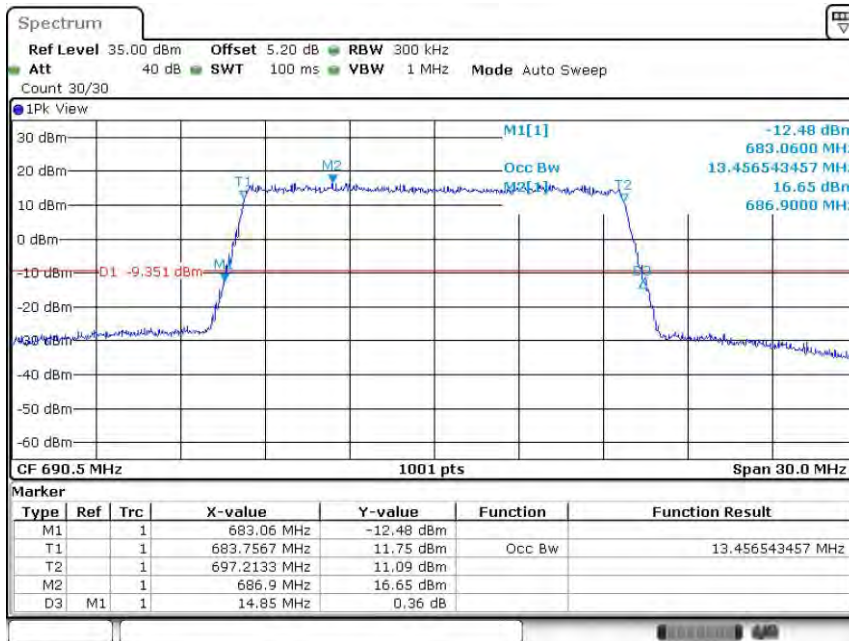


**Band71-15MHz-16QAM-133297-75RB#0**



Date: 5.AUG.2021 19:21:18

**Band71-15MHz-16QAM-133397-75RB#0**

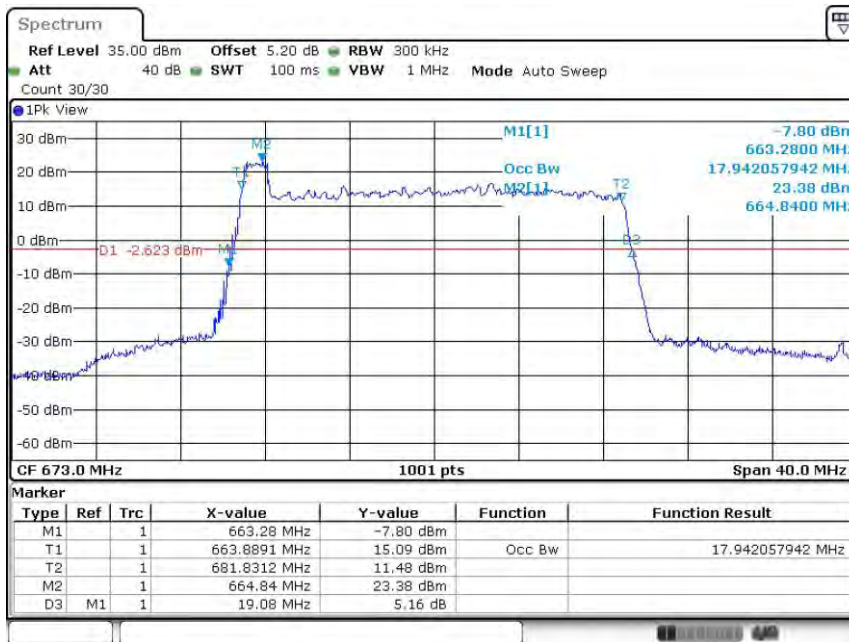


Date: 5.AUG.2021 19:21:51



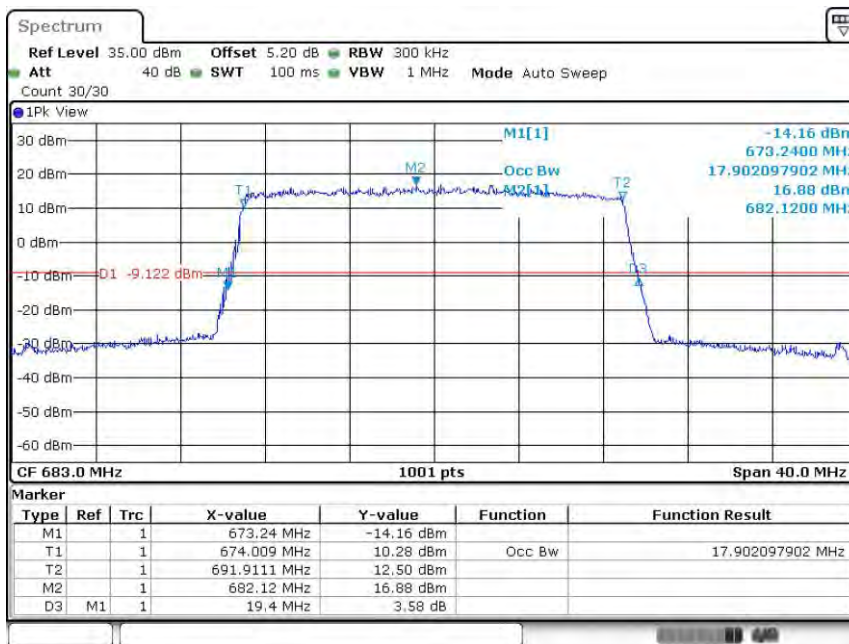
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**Band71-20MHz-QPSK-133222-100RB#0**



Date: 26 JUL 2021 09:34:38

**Band71-20MHz-QPSK-133322-100RB#0**



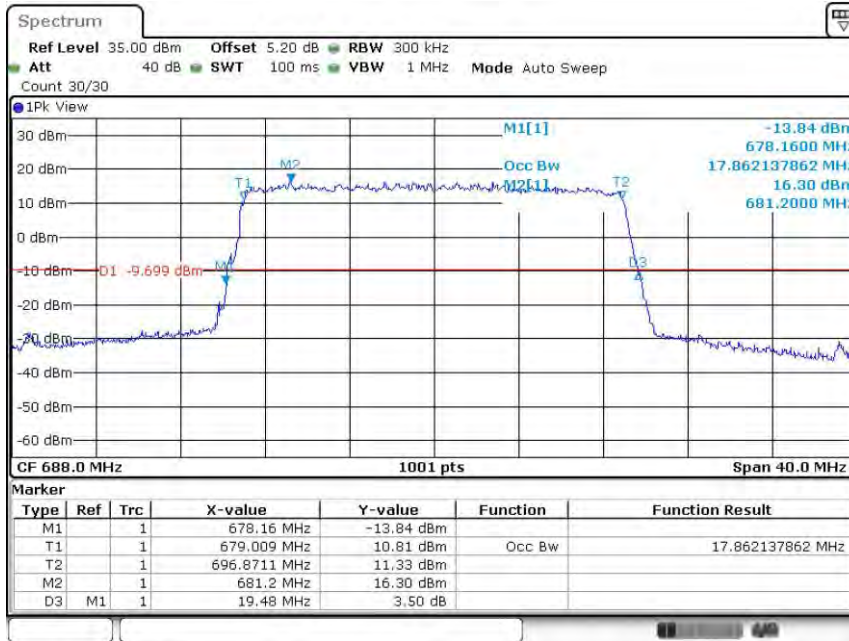
Date: 26 JUL 2021 09:35:13



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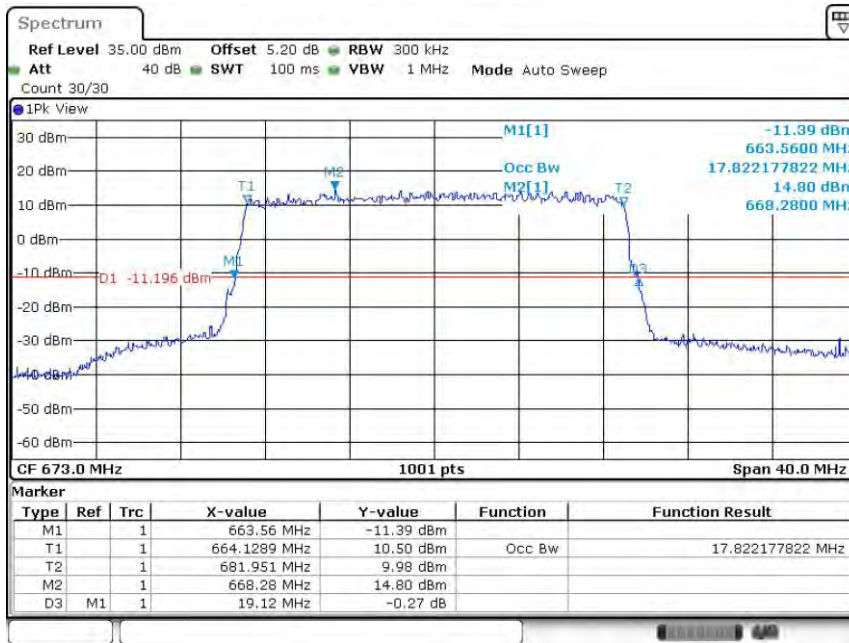


**Band71-20MHz-QPSK-133372-100RB#0**



Date: 26 JUL 2021 09:35:48

**Band71-20MHz-16QAM-133222-100RB#0**



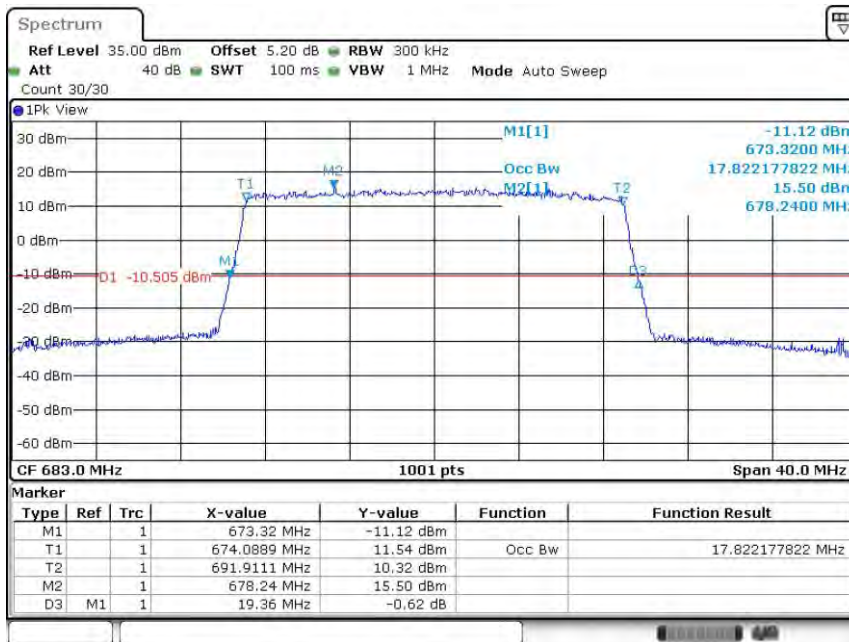
Date: 26 JUL 2021 09:34:55



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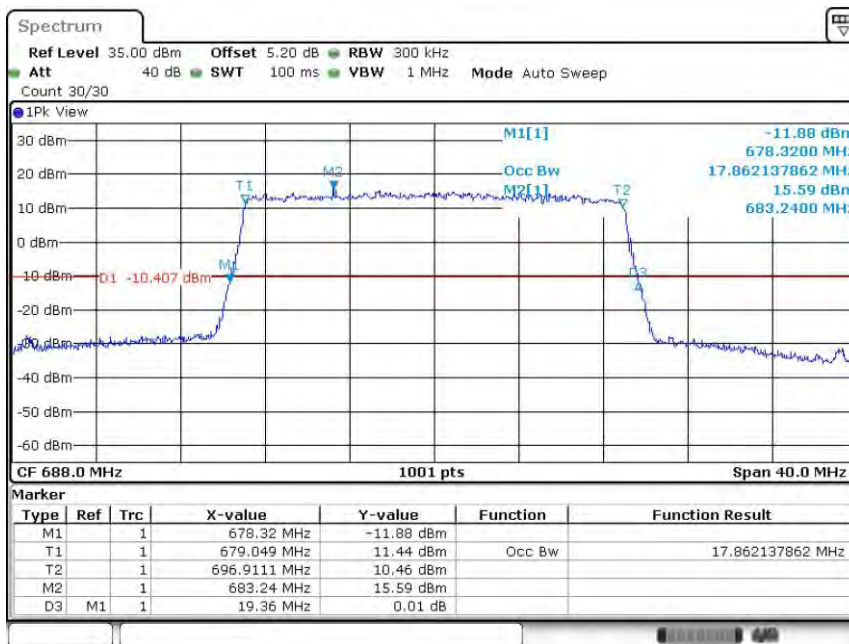


**Band71-20MHz-16QAM-133322-100RB#0**



Date: 26 JUL 2021 09:35:30

**Band71-20MHz-16QAM-133372-100RB#0**



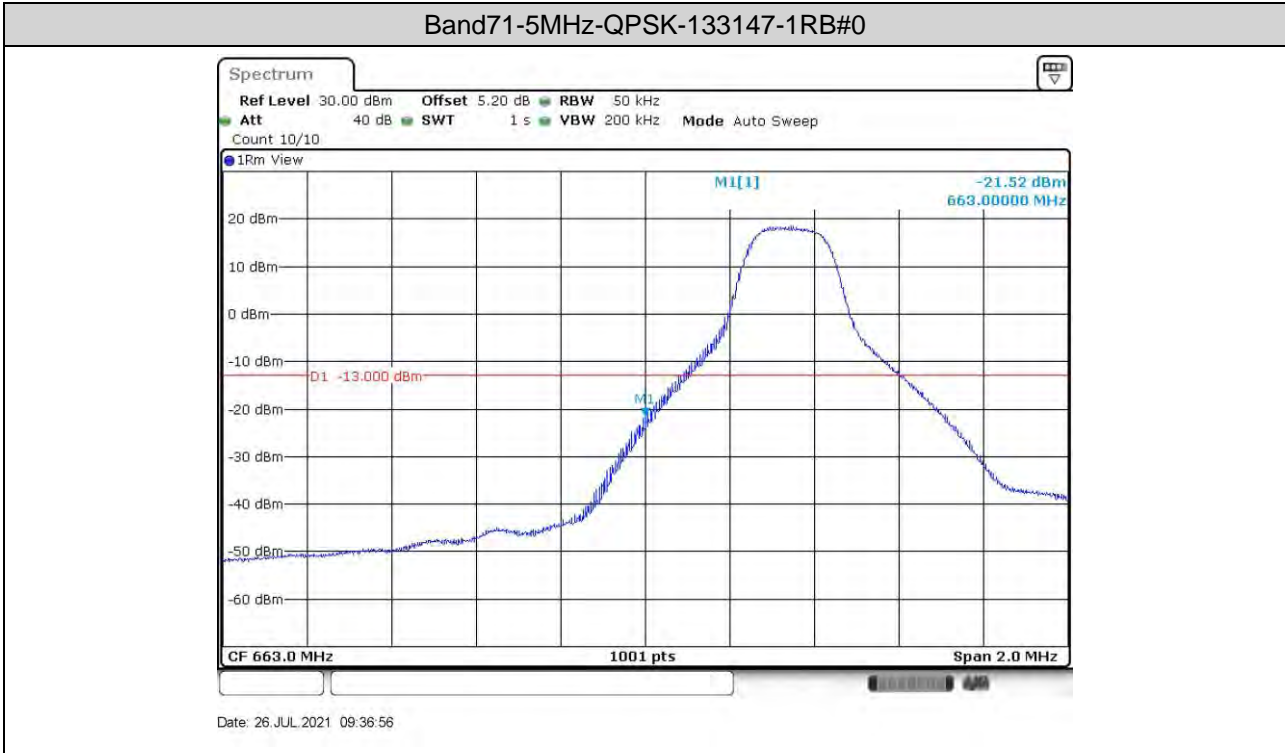
Date: 26 JUL 2021 09:36:06



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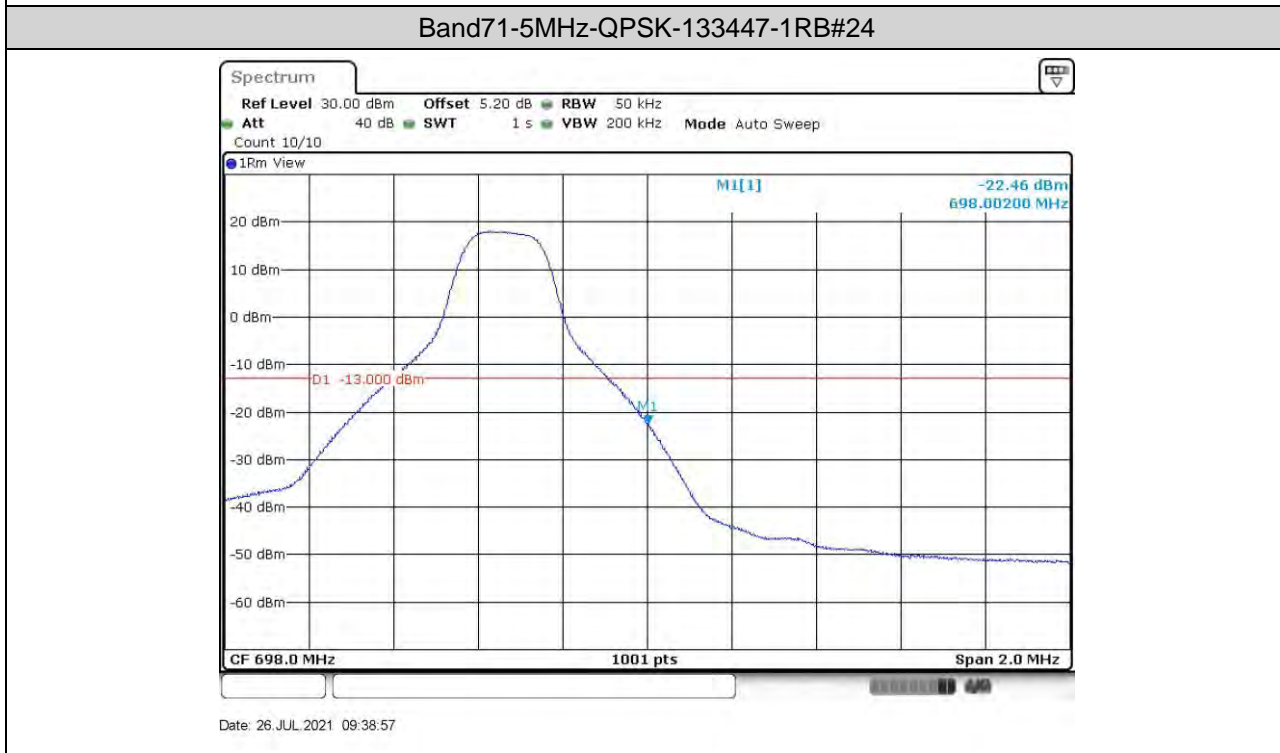
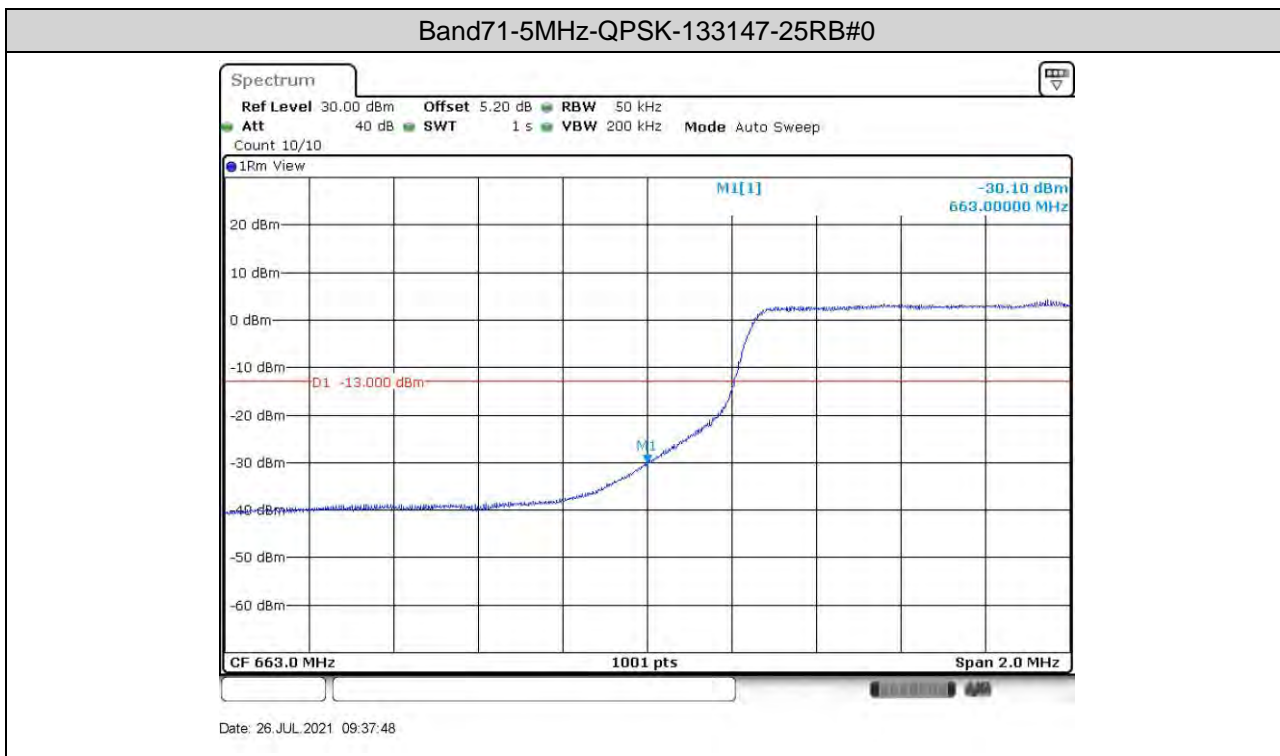
## 5. Band Edge Compliance

### 5.1. Test Plots



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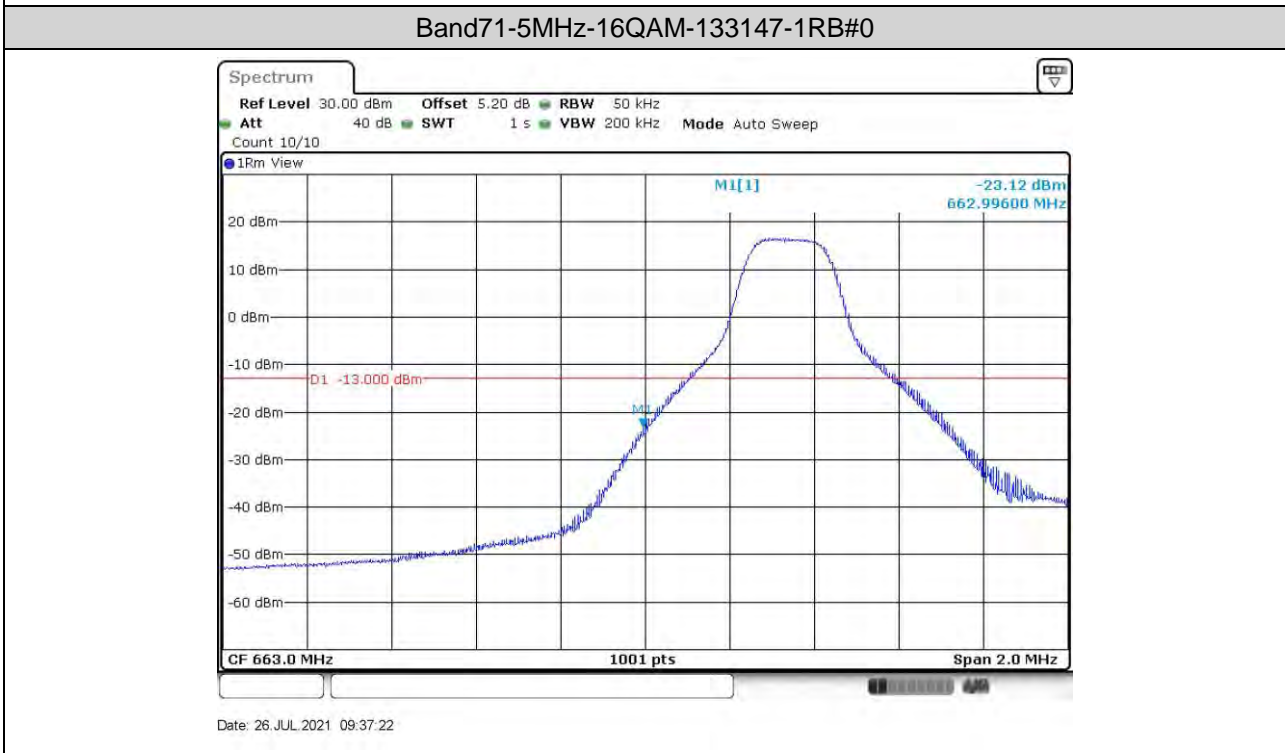
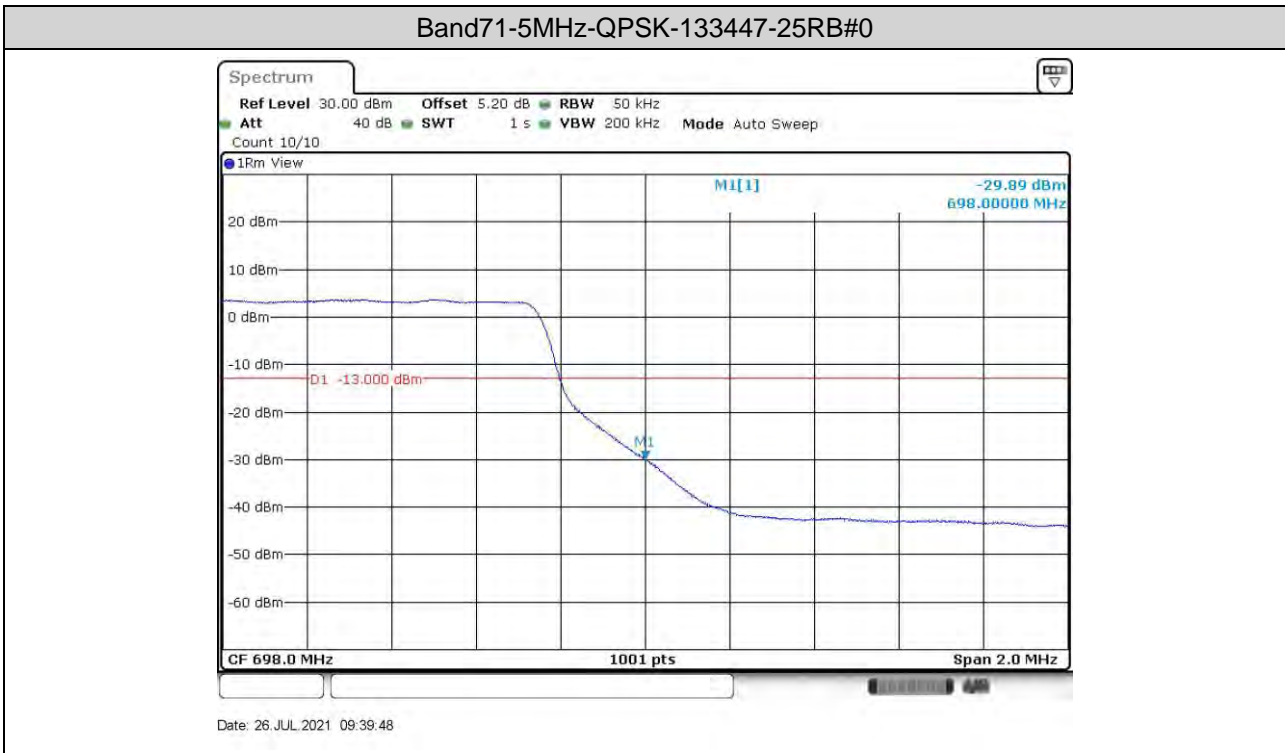
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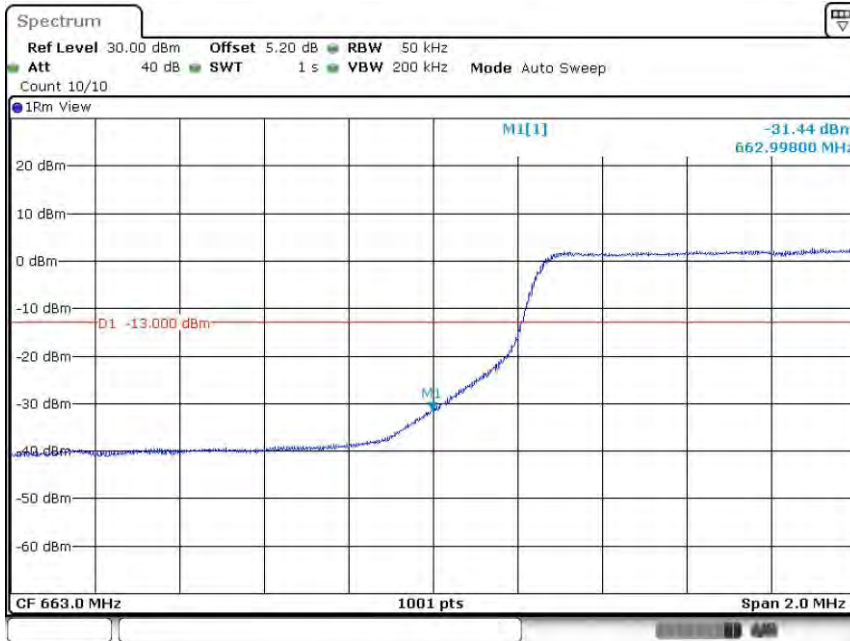




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**Band71-5MHz-16QAM-133147-25RB#0**



Date: 26 JUL 2021 09:38:14

**Band71-5MHz-16QAM-133447-1RB#24**



Date: 26 JUL 2021 09:39:23



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**Band71-5MHz-16QAM-133447-25RB#0**



Date: 26 JUL 2021 09:40:14

**Band71-10MHz-QPSK-133172-1RB#0**

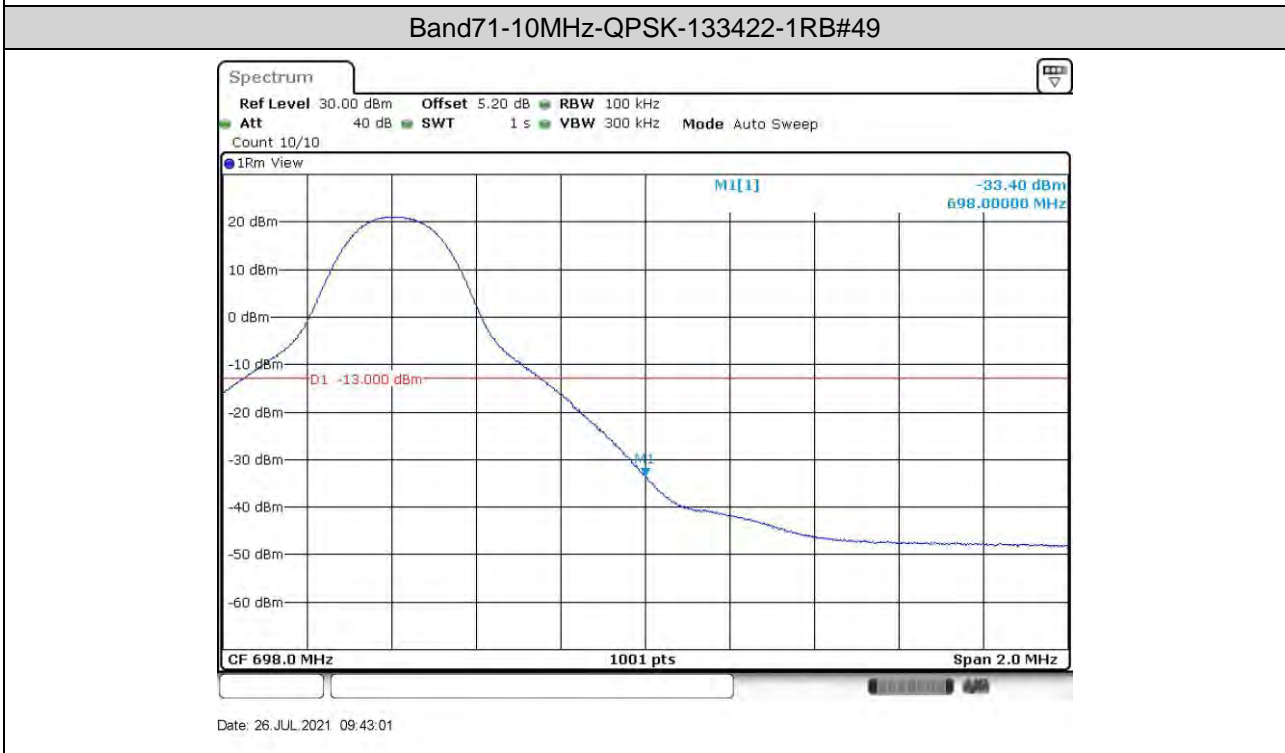
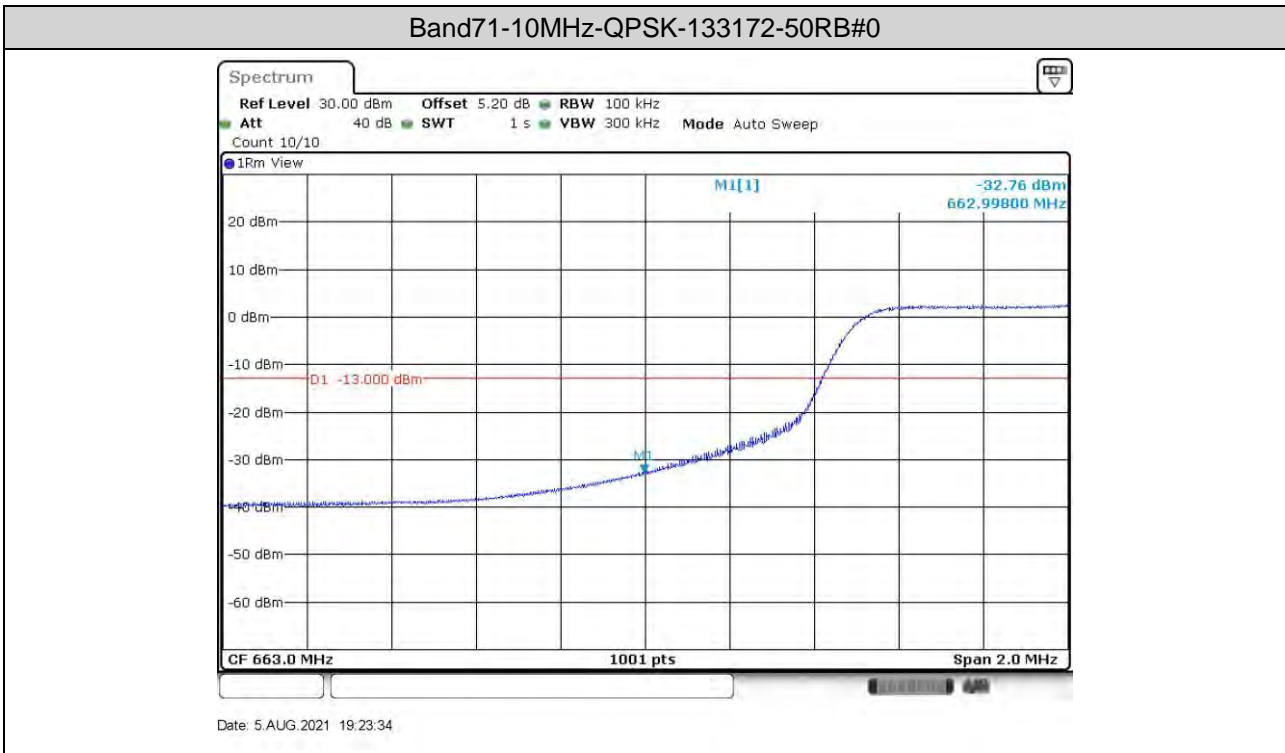


Date: 5 AUG 2021 19:22:38



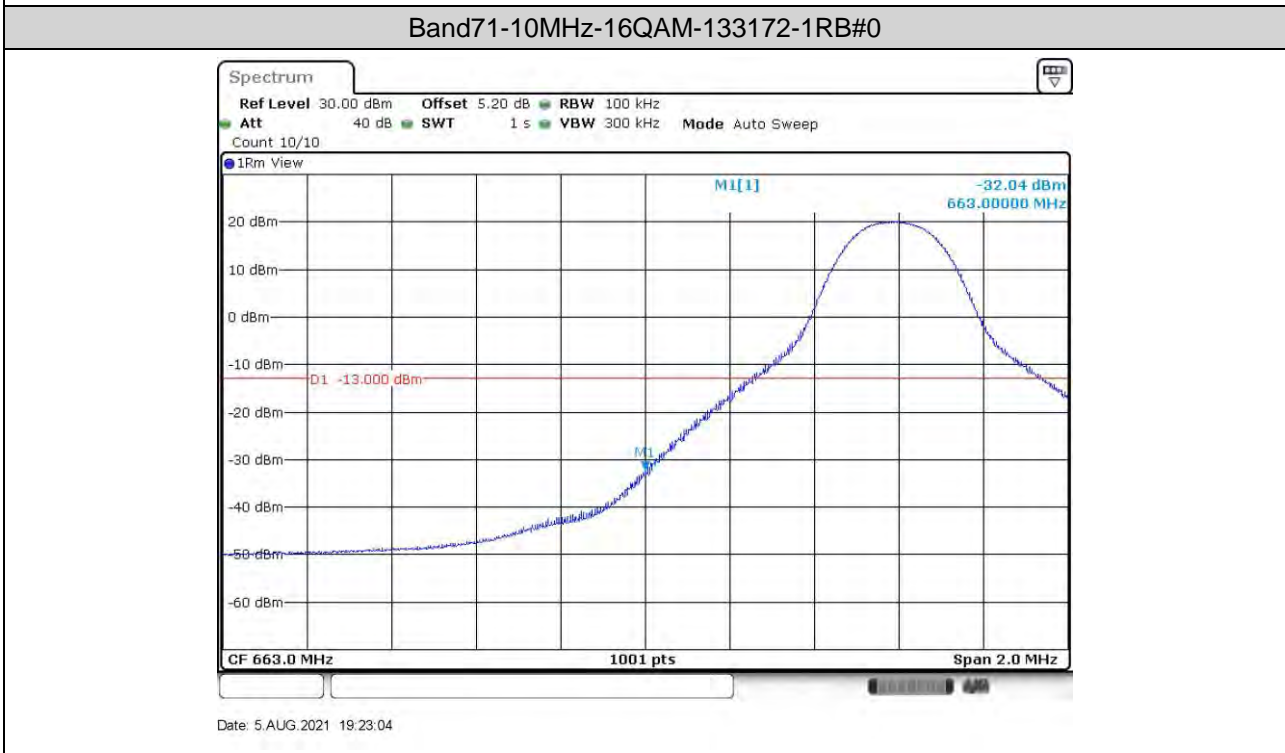
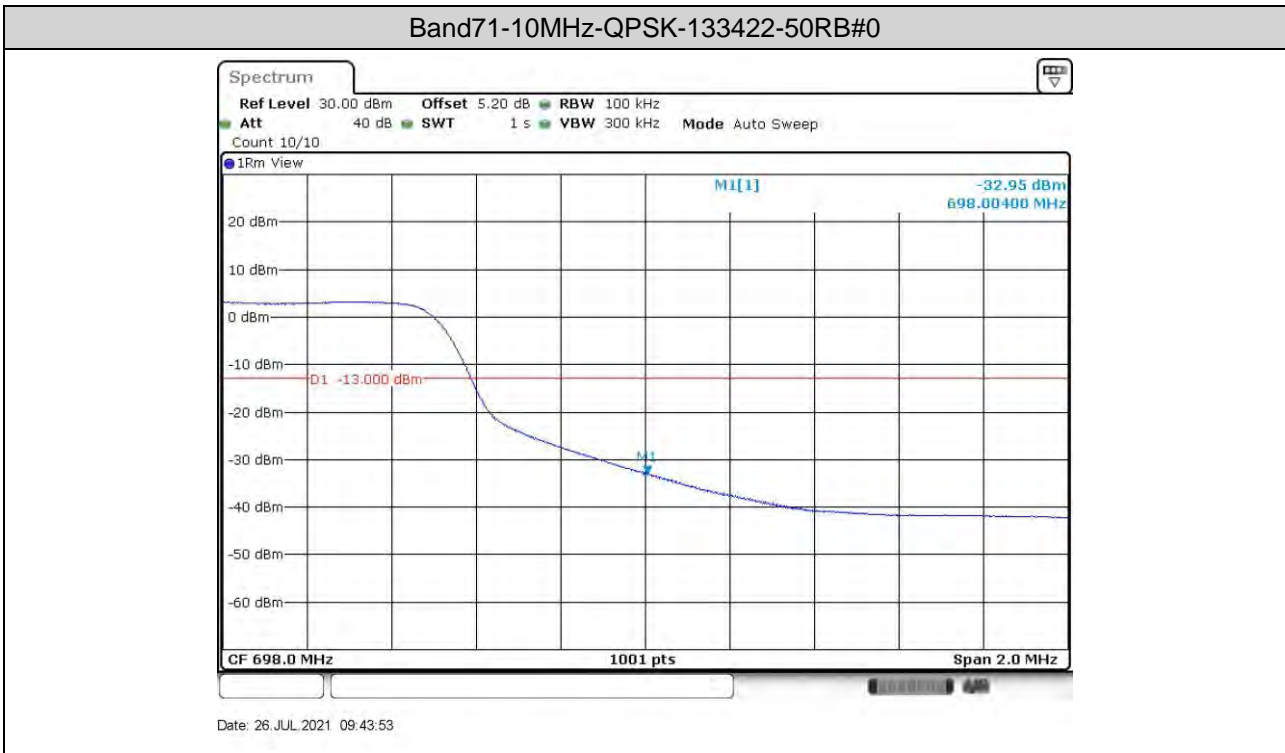
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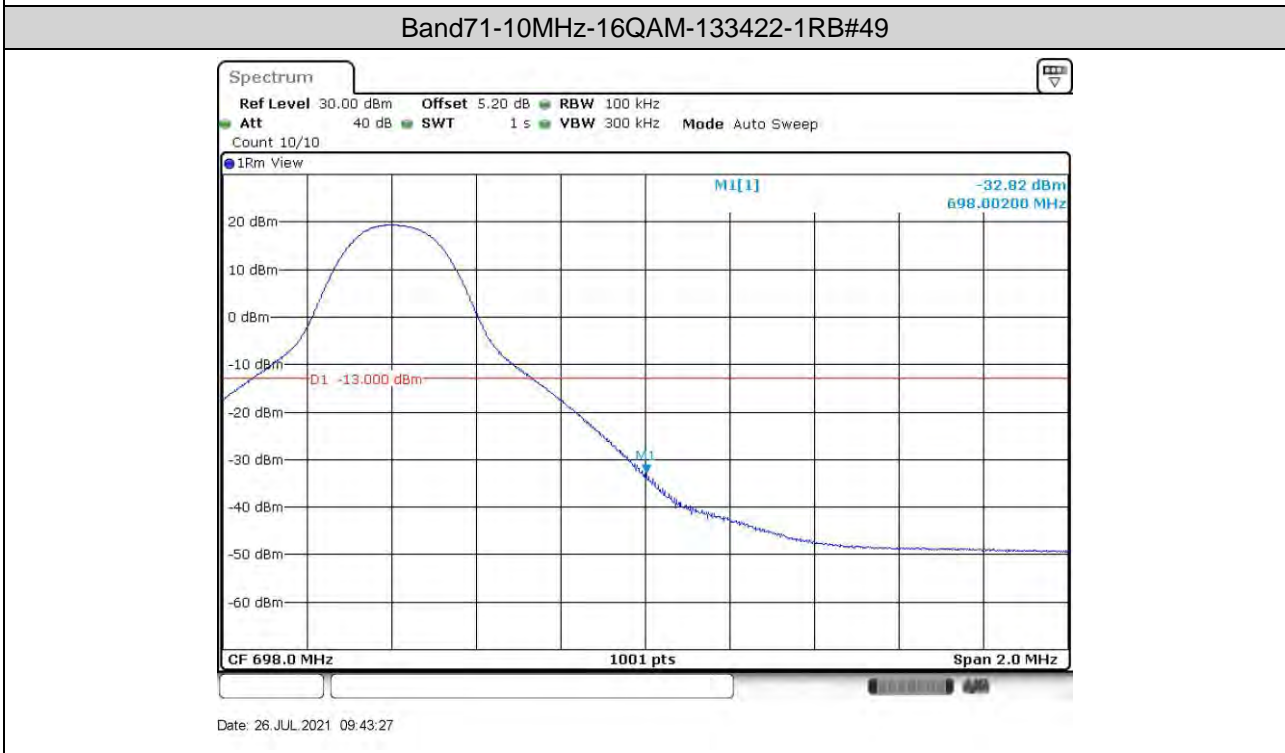
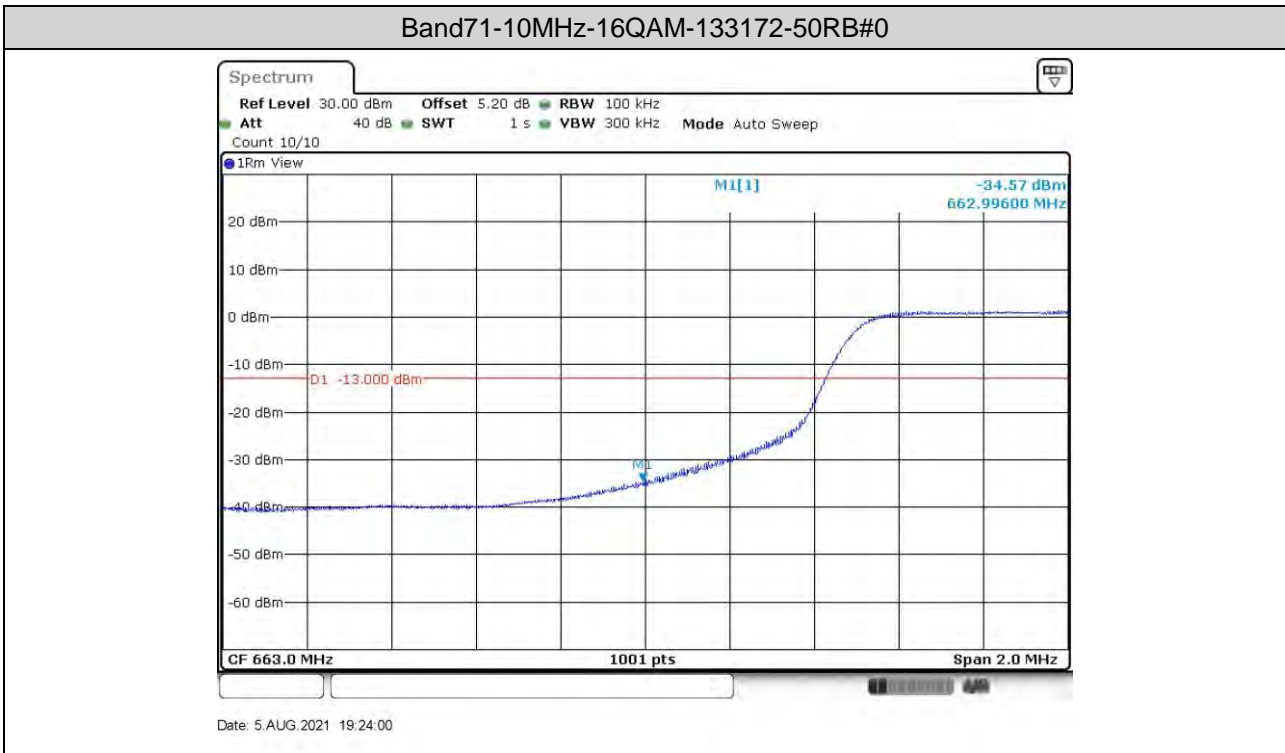
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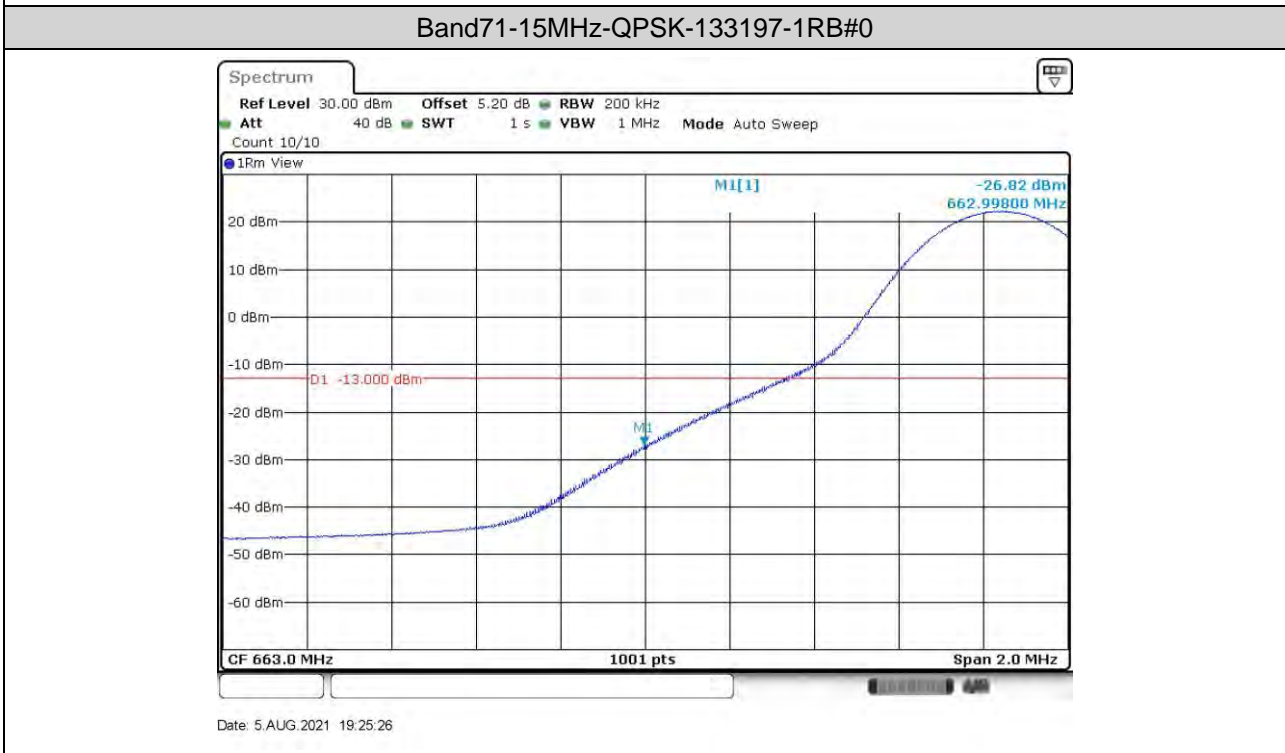
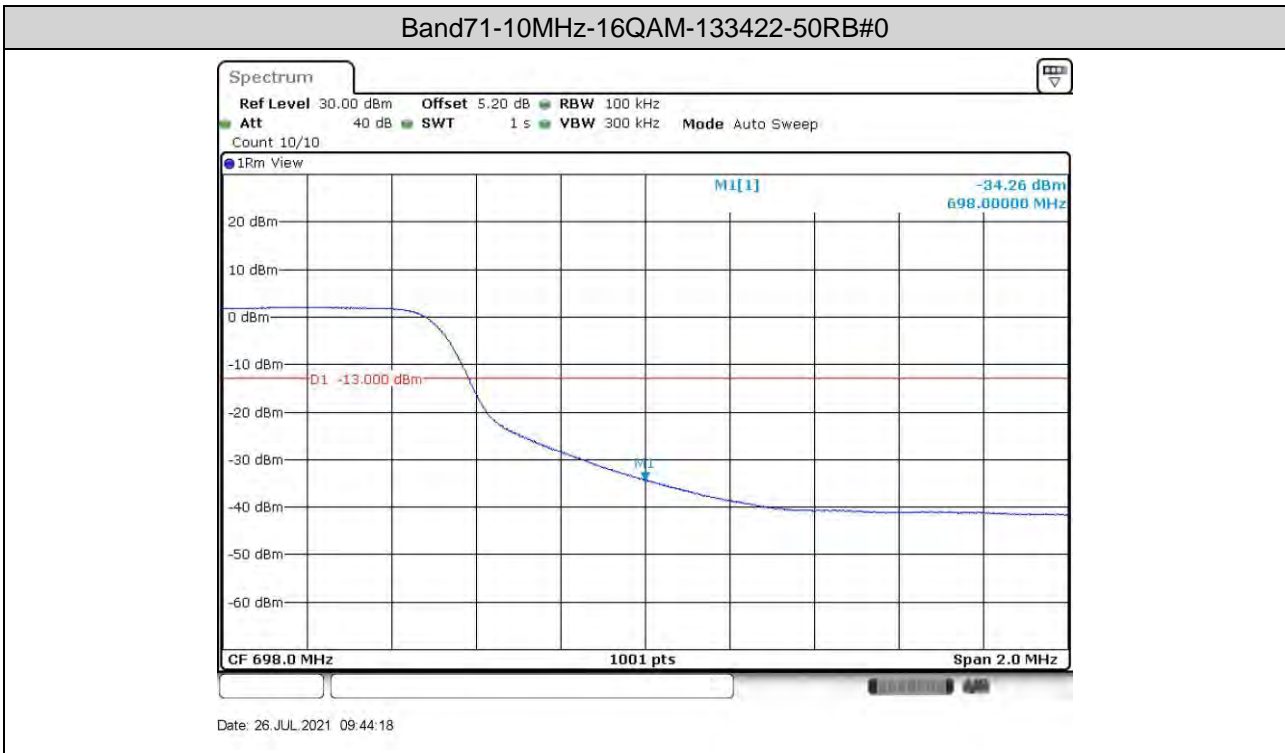
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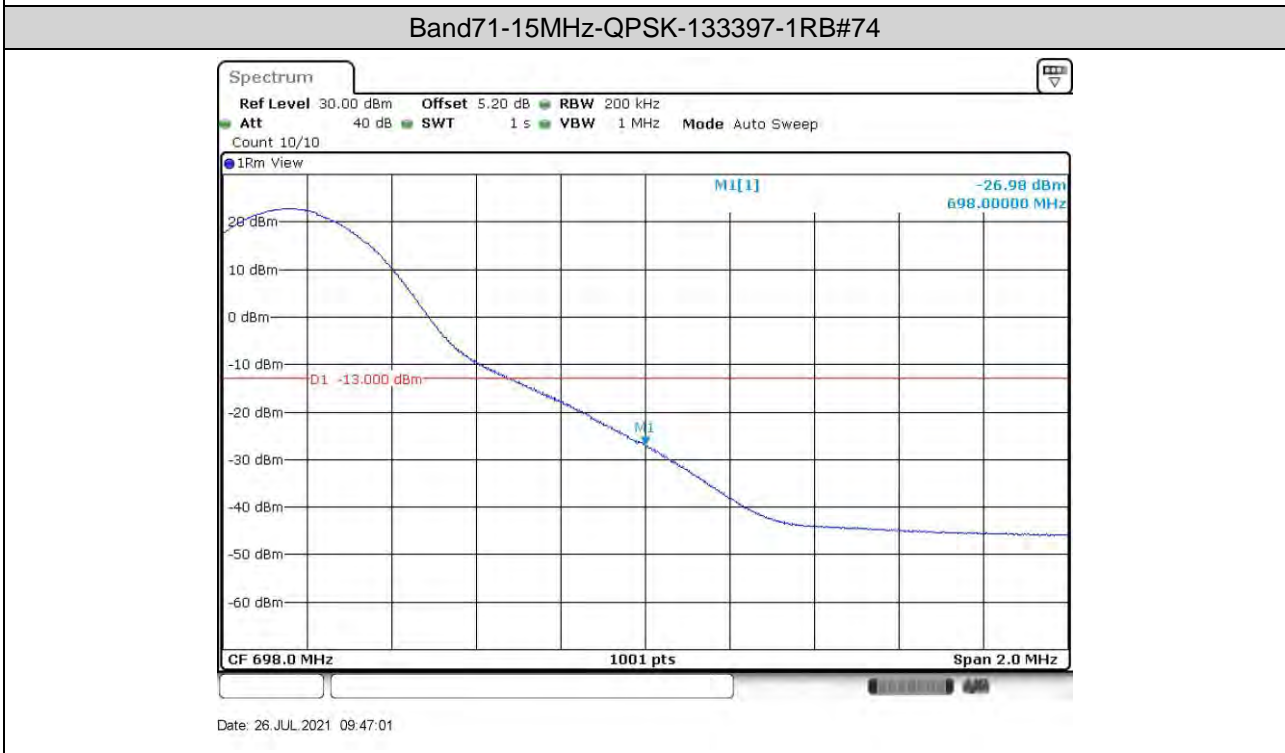
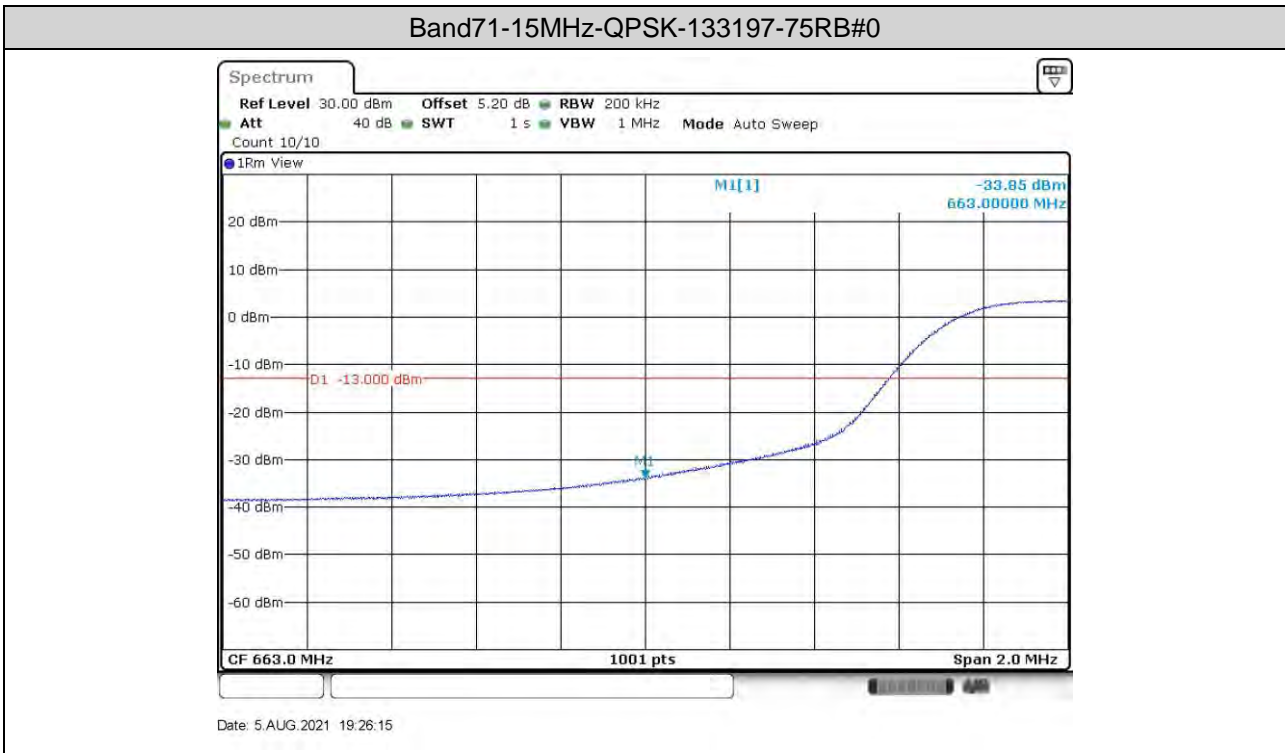
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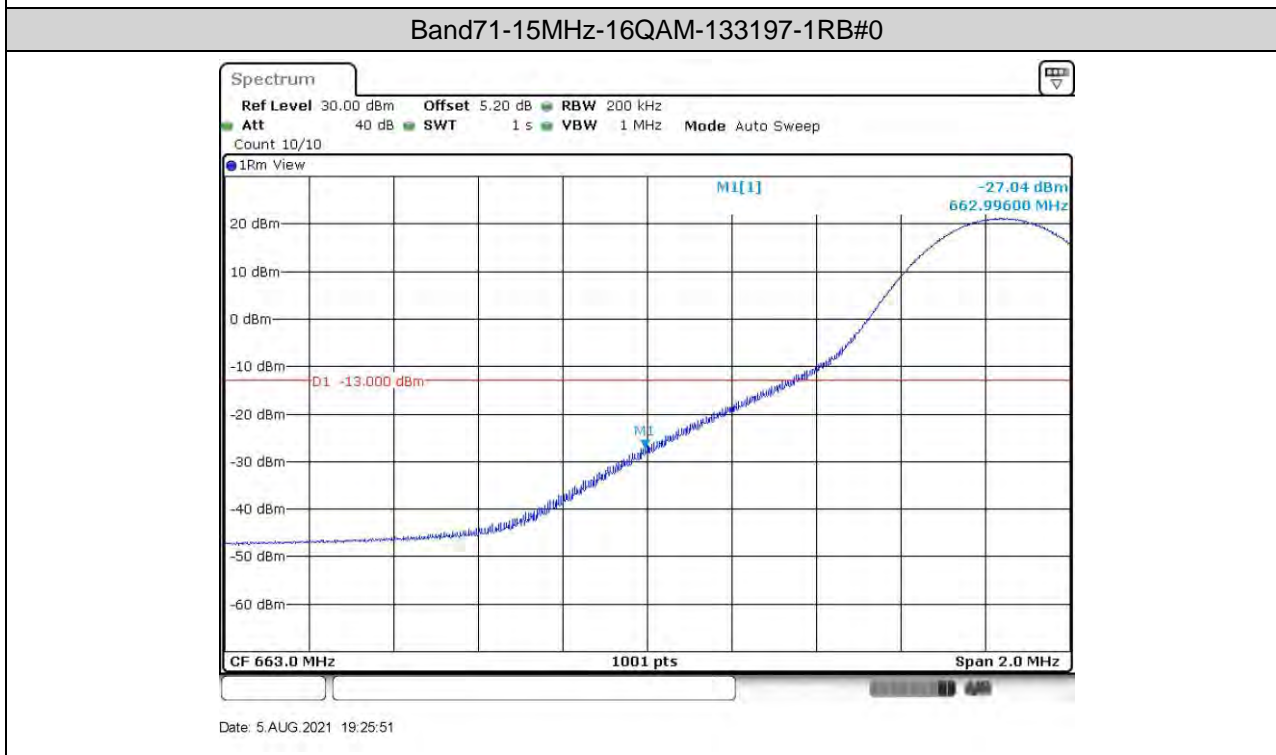
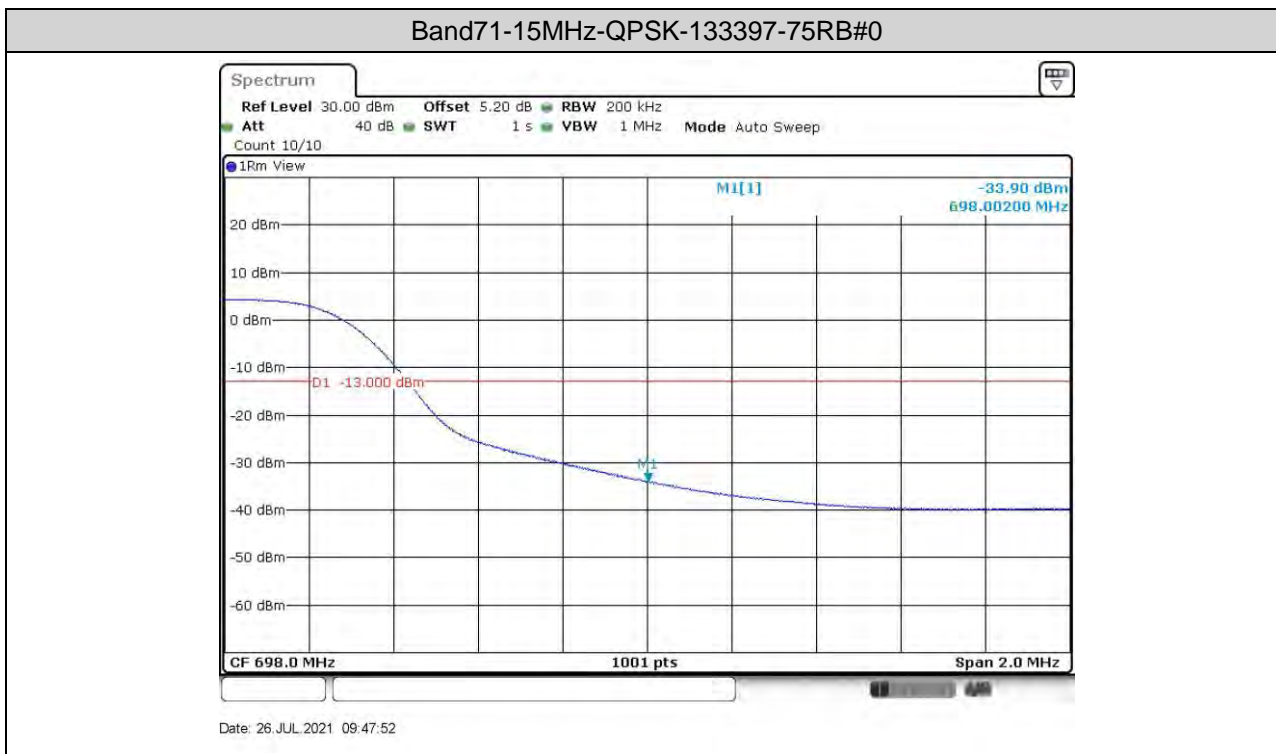
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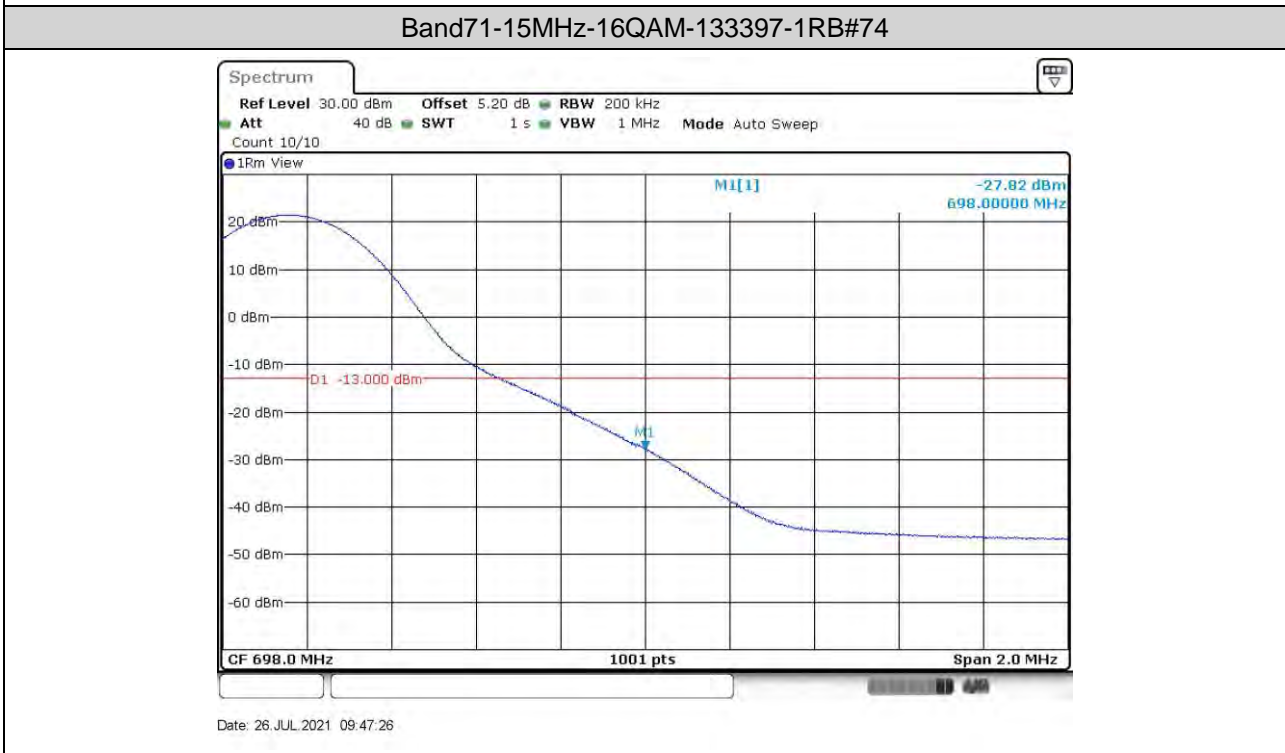
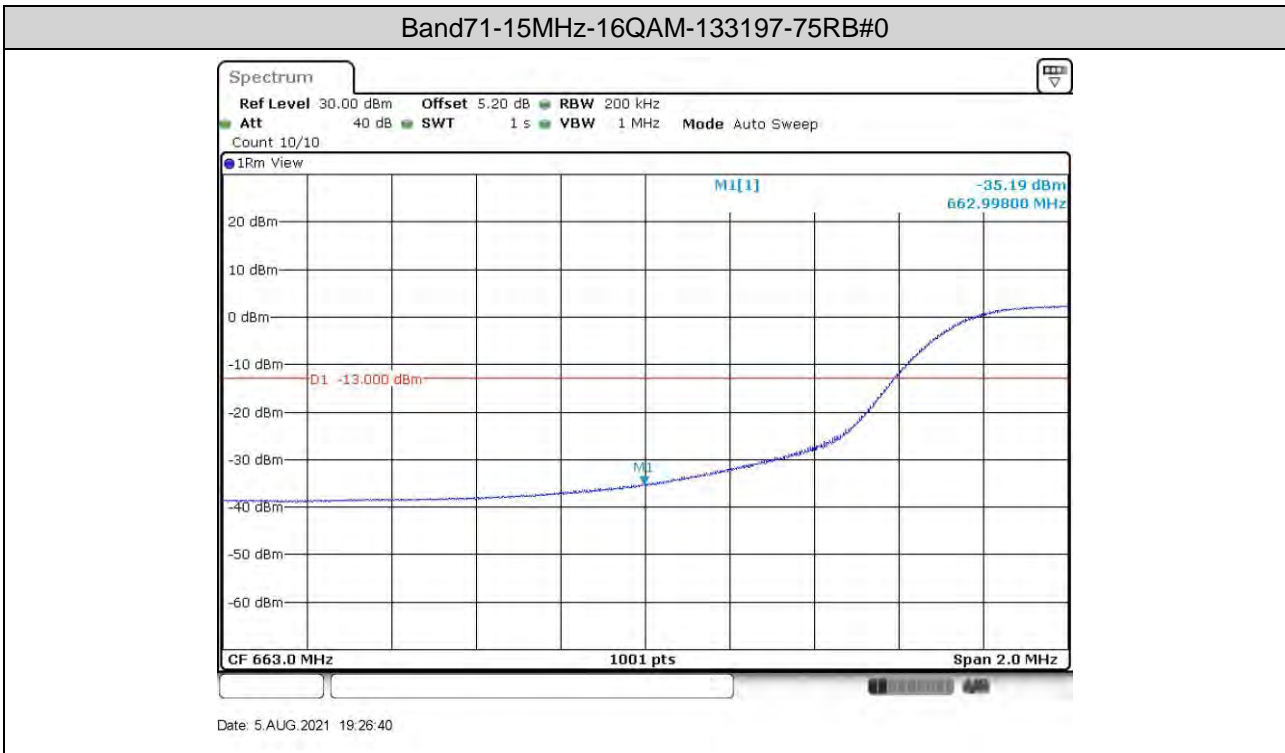


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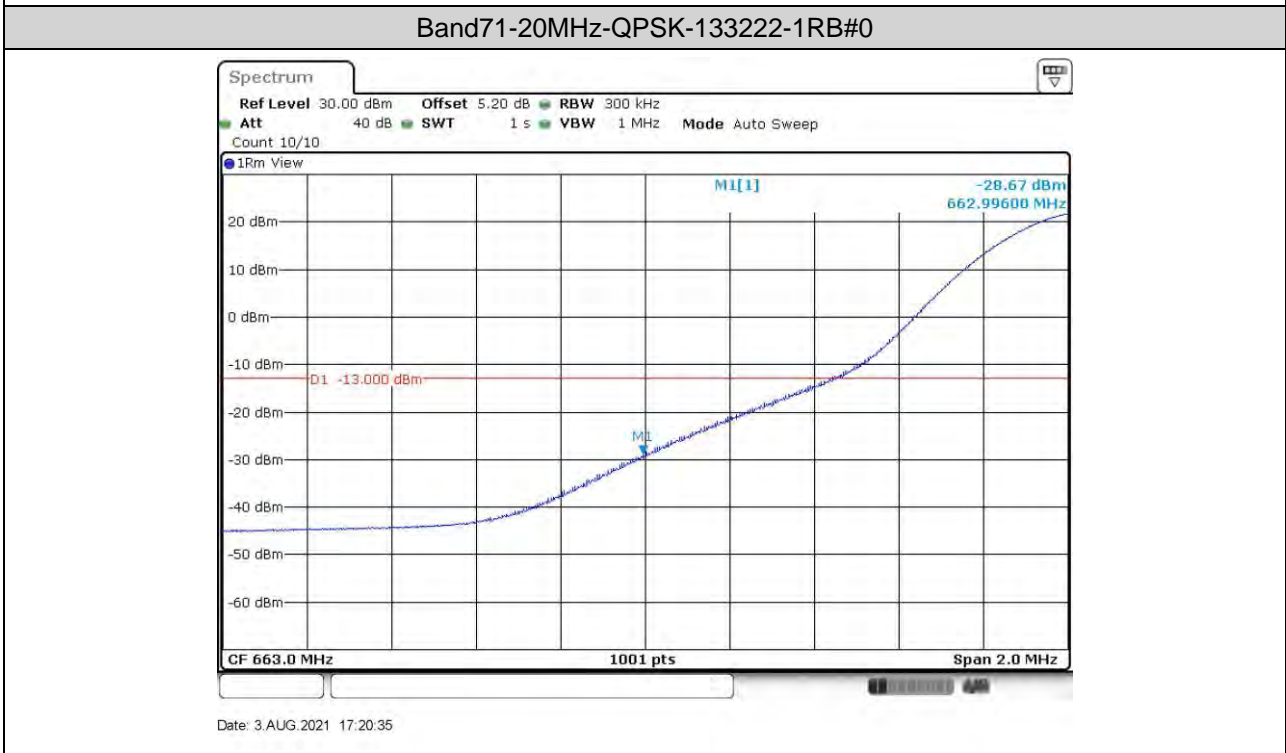
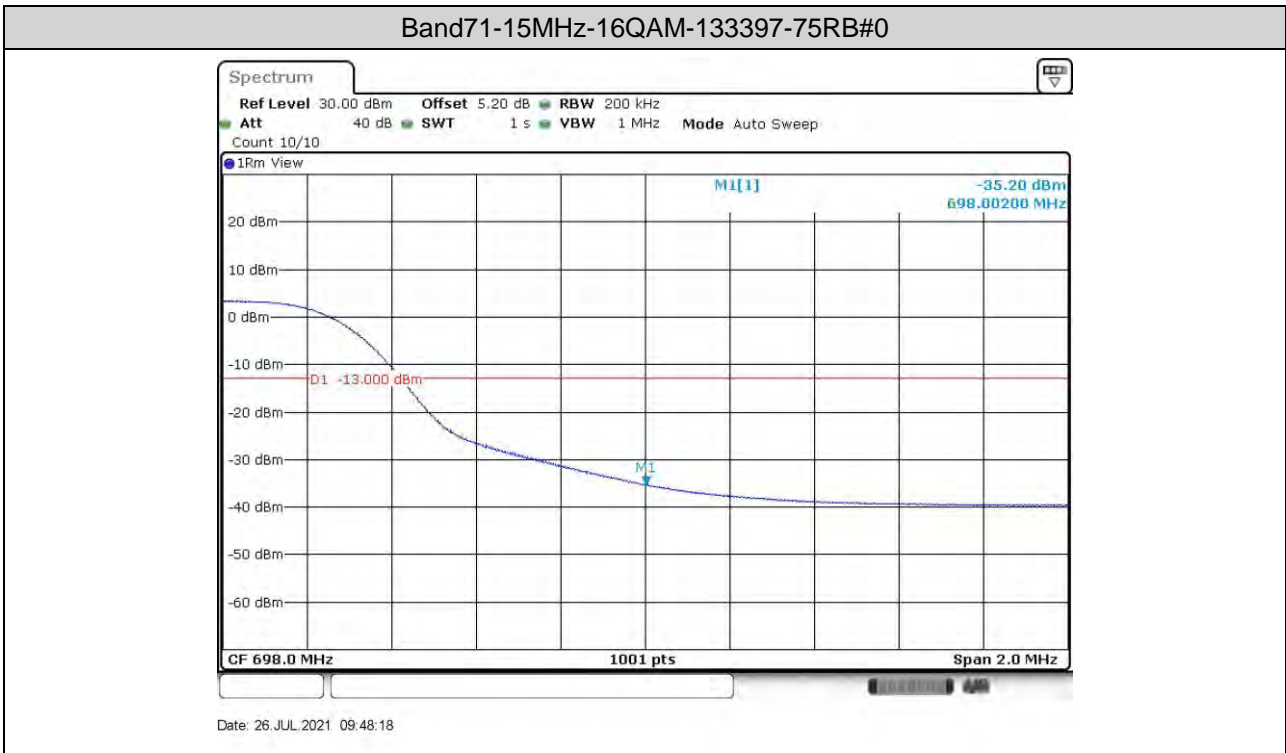
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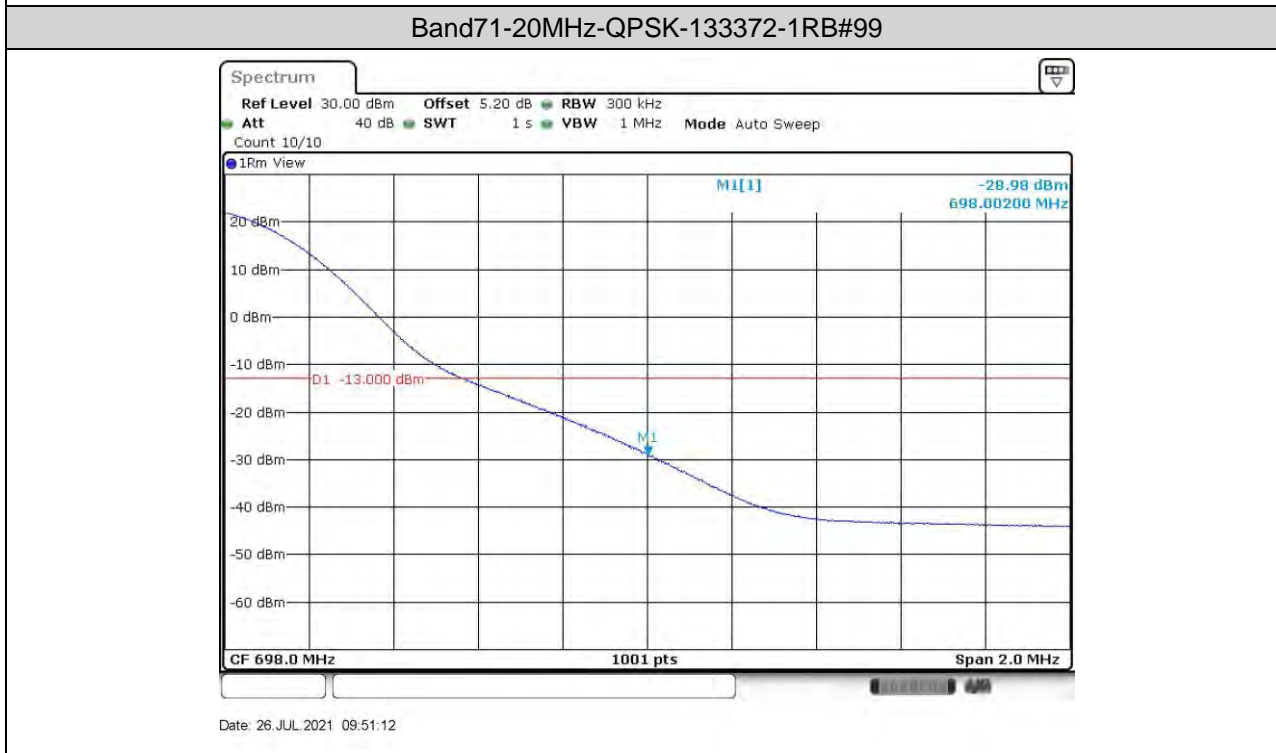
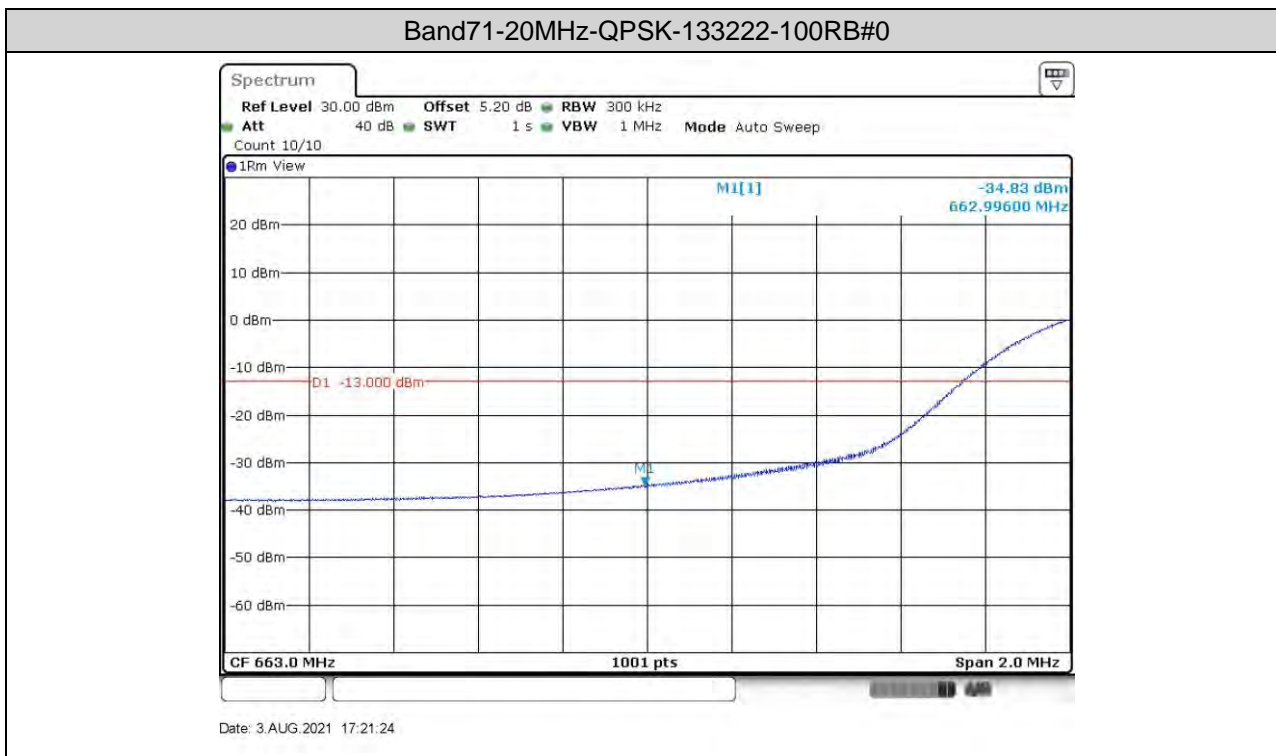
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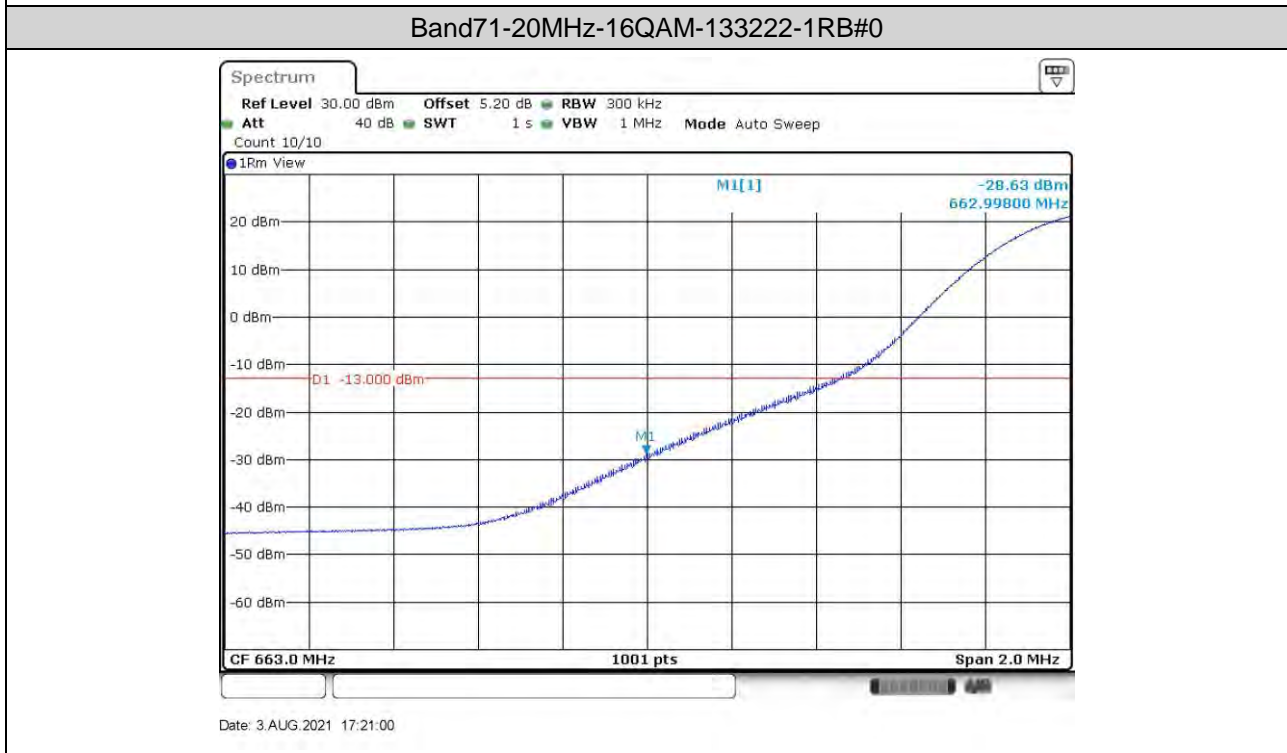
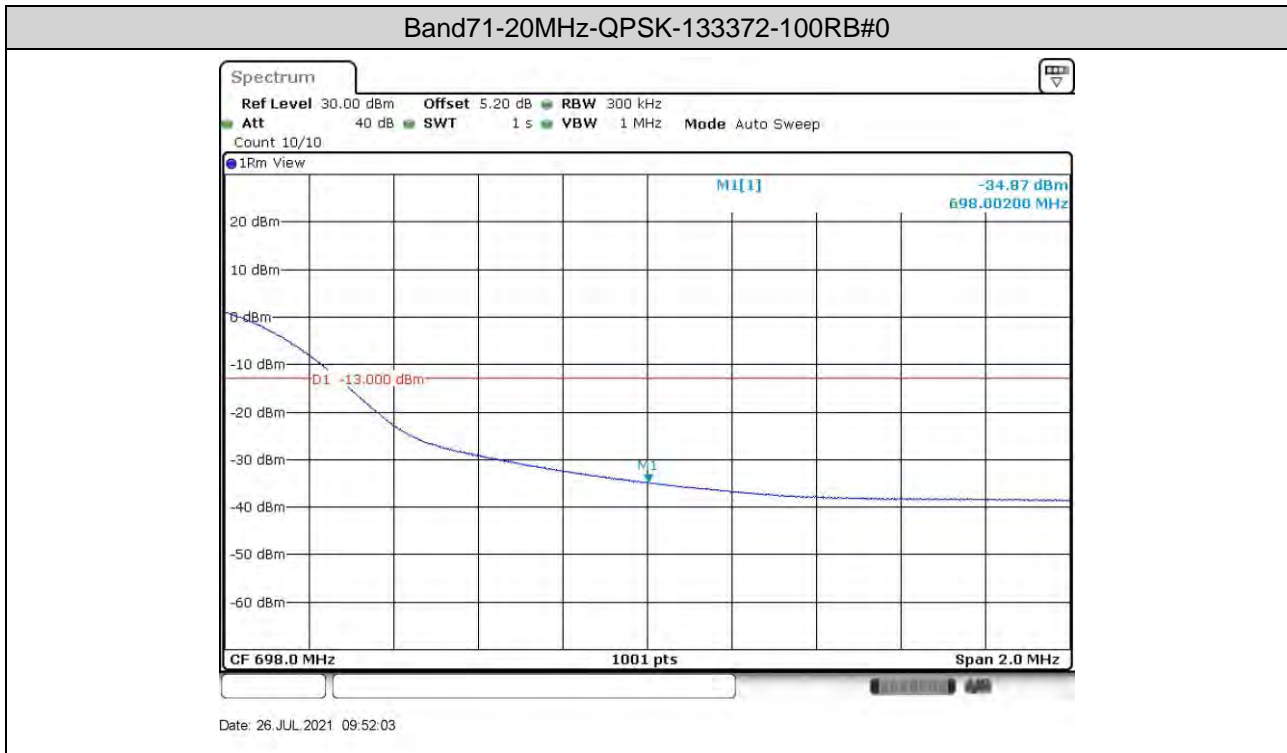
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**Band71-20MHz-16QAM-133222-100RB#0**



Date: 3.AUG.2021 17:21:49

**Band71-20MHz-16QAM-133372-1RB#99**

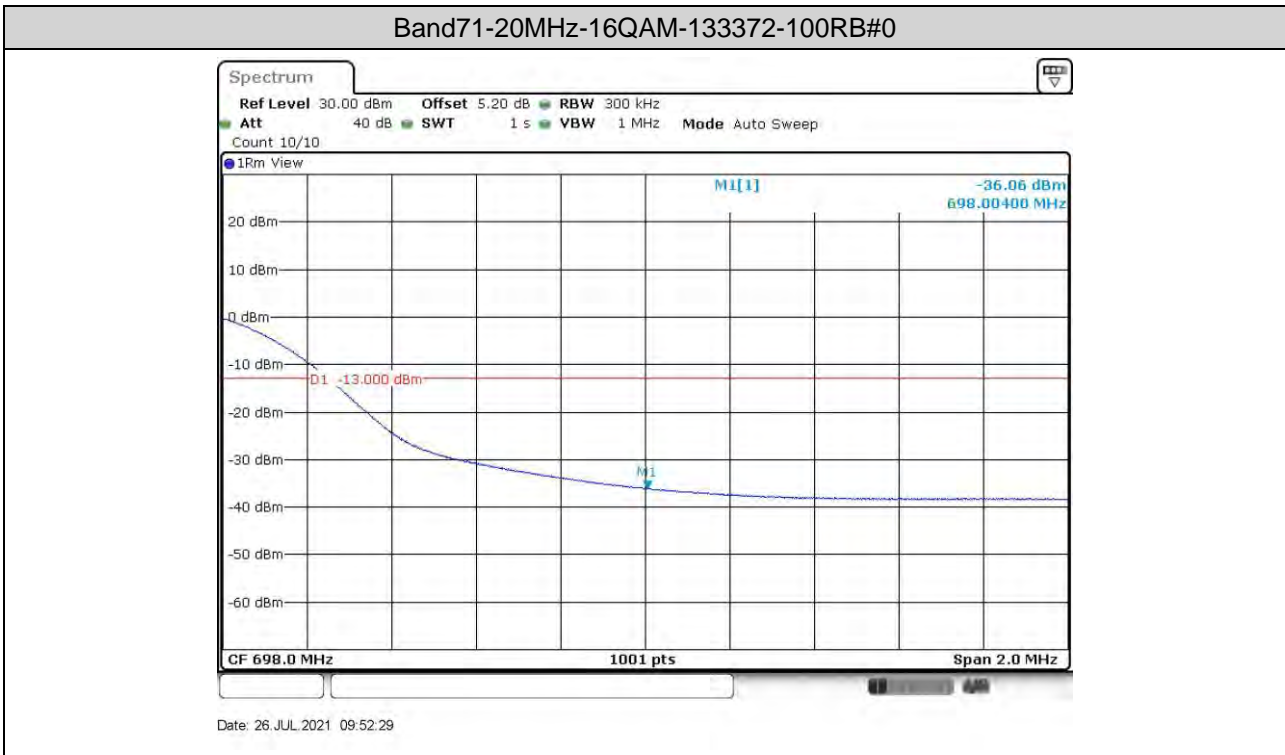


Date: 26.JUL.2021 09:51:37



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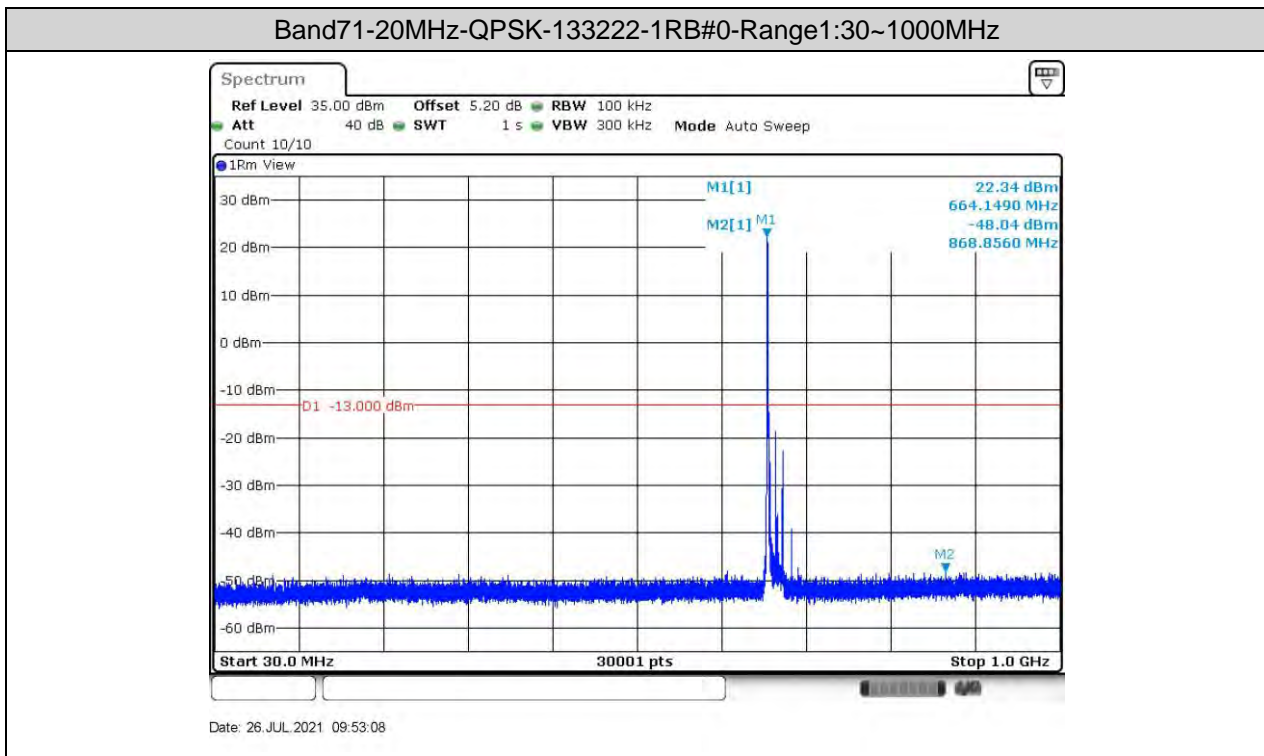
## 6. Spurious Emission at Antenna Terminal

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.

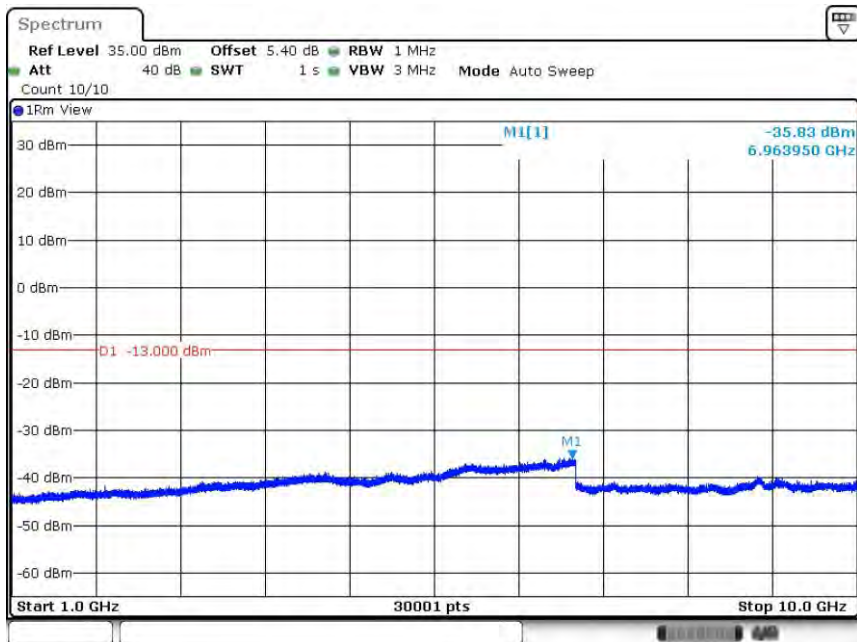
Remark2: According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.

Remark3: 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

### 6.1. Test Plots

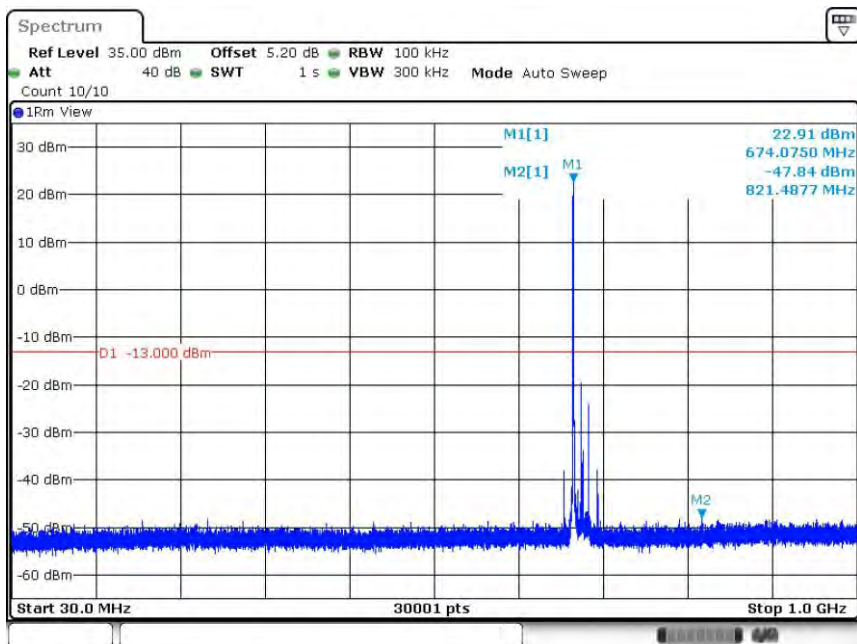


**Band71-20MHz-QPSK-133222-1RB#0-Range2:1000~10000MHz**



Date: 26 JUL 2021 09:53:24

**Band71-20MHz-QPSK-133222-1RB#0-Range1:30~1000MHz**

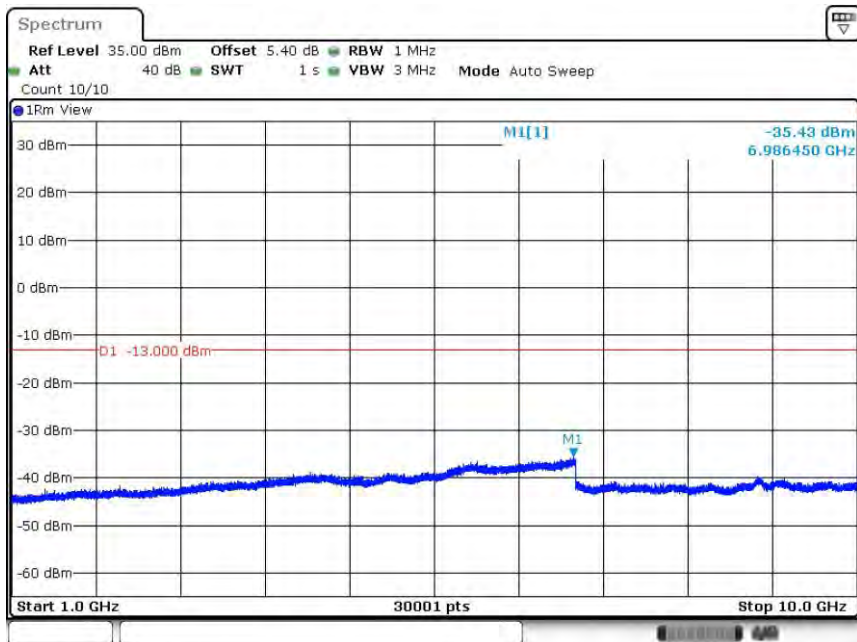


Date: 26 JUL 2021 09:54:30



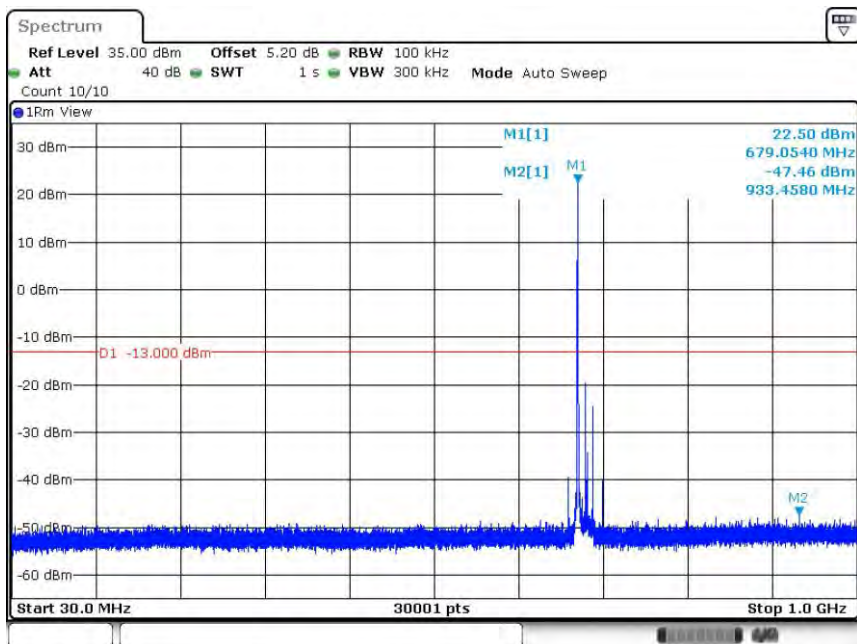
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**Band71-20MHz-QPSK-133322-1RB#0-Range2:1000~10000MHz**



Date: 26 JUL 2021 09:54:46

**Band71-20MHz-QPSK-133372-1RB#0-Range1:30~1000MHz**



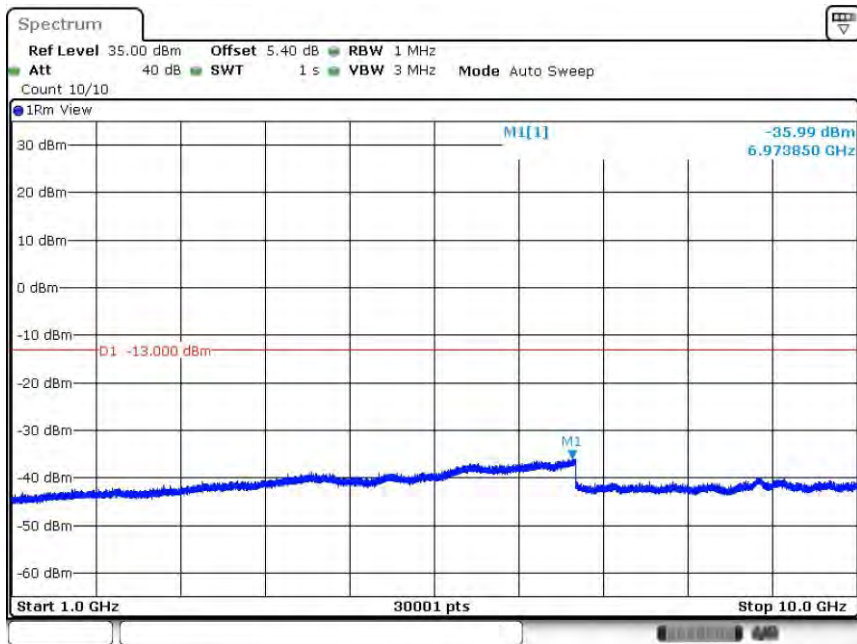
Date: 26 JUL 2021 09:55:52



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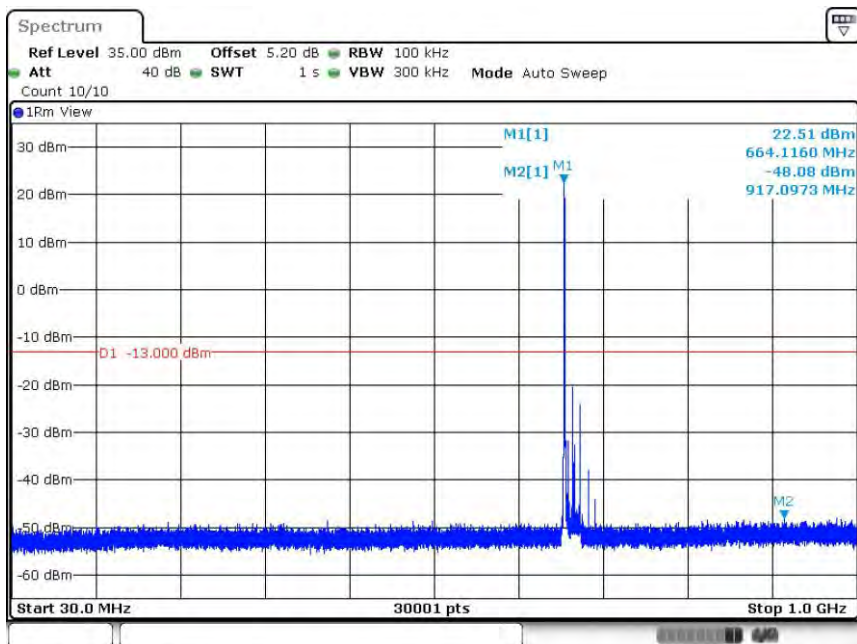


**Band71-20MHz-QPSK-133372-1RB#0-Range2:1000~10000MHz**



Date: 26 JUL 2021 09:56:08

**Band71-20MHz-16QAM-133222-1RB#0-Range1:30~1000MHz**

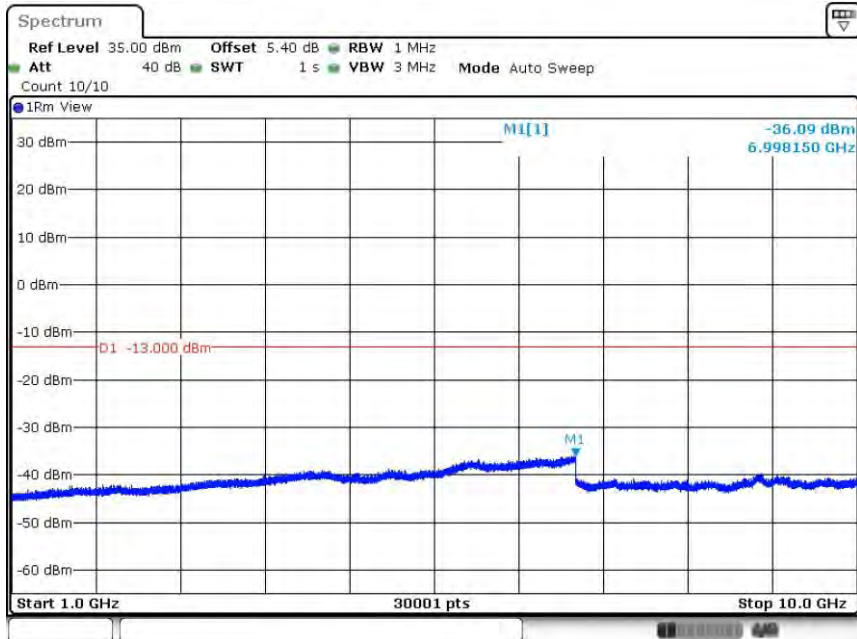


Date: 26 JUL 2021 09:53:49



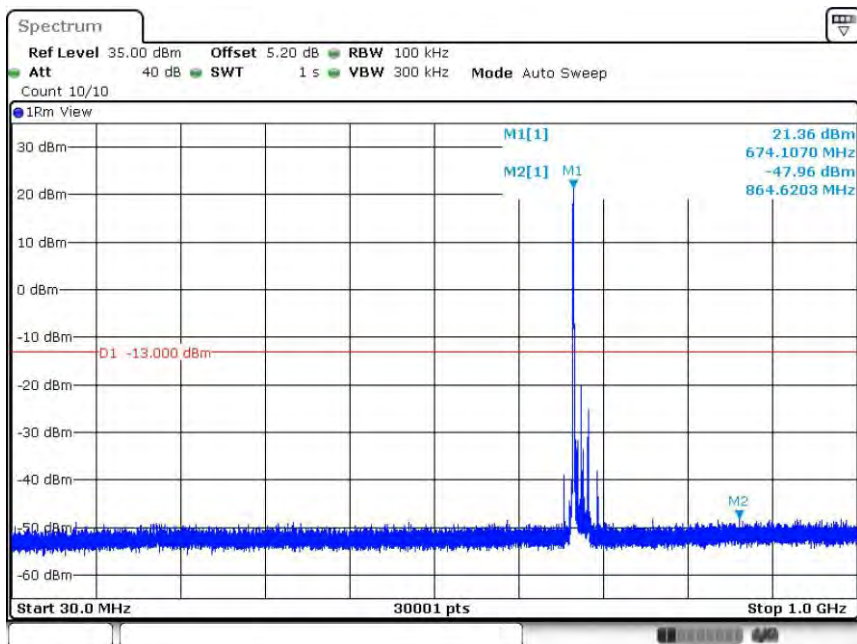
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**Band71-20MHz-16QAM-133222-1RB#0-Range2:1000~10000MHz**



Date: 26 JUL 2021 09:54:05

**Band71-20MHz-16QAM-133322-1RB#0-Range1:30~1000MHz**



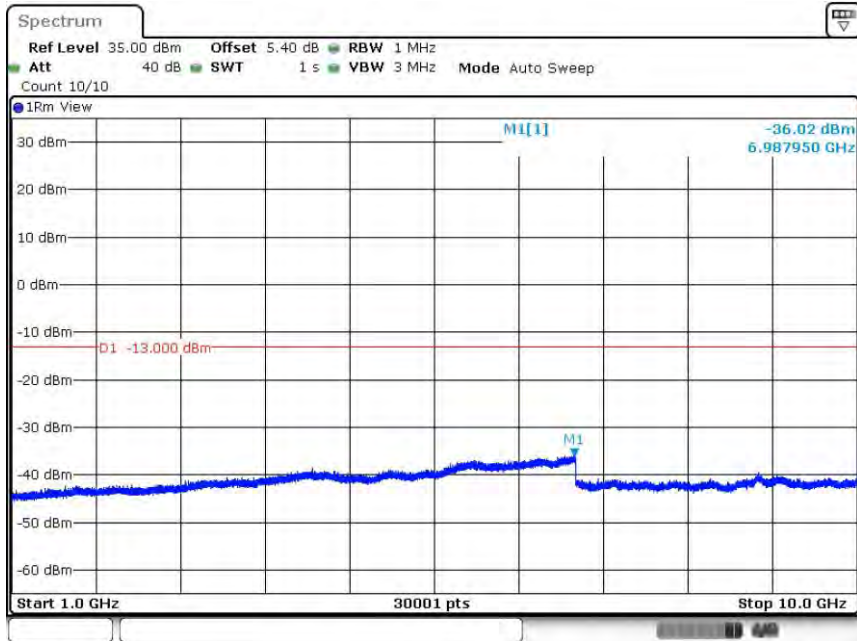
Date: 26 JUL 2021 09:55:11



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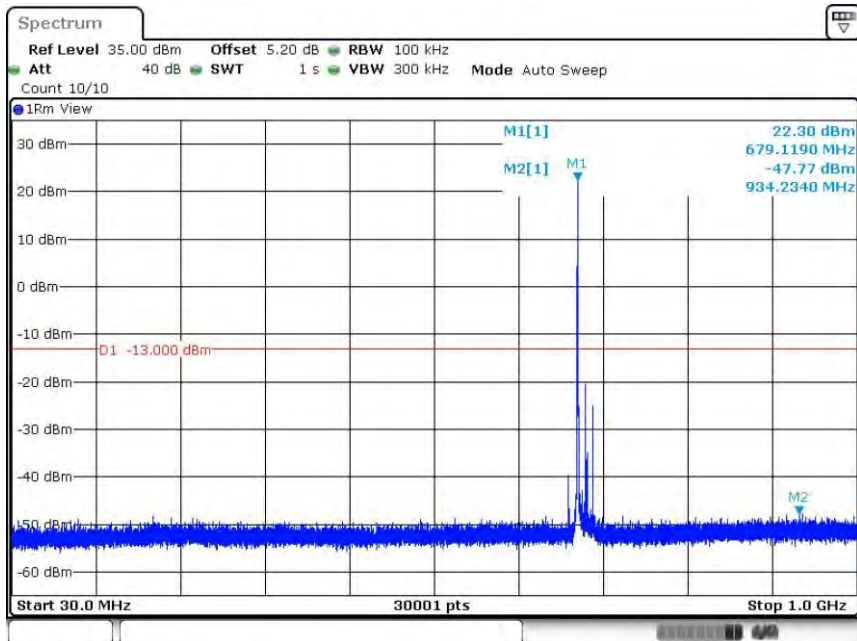


**Band71-20MHz-16QAM-133322-1RB#0-Range2:1000~10000MHz**



Date: 26 JUL 2021 09:55:27

**Band71-20MHz-16QAM-133372-1RB#0-Range1:30~1000MHz**

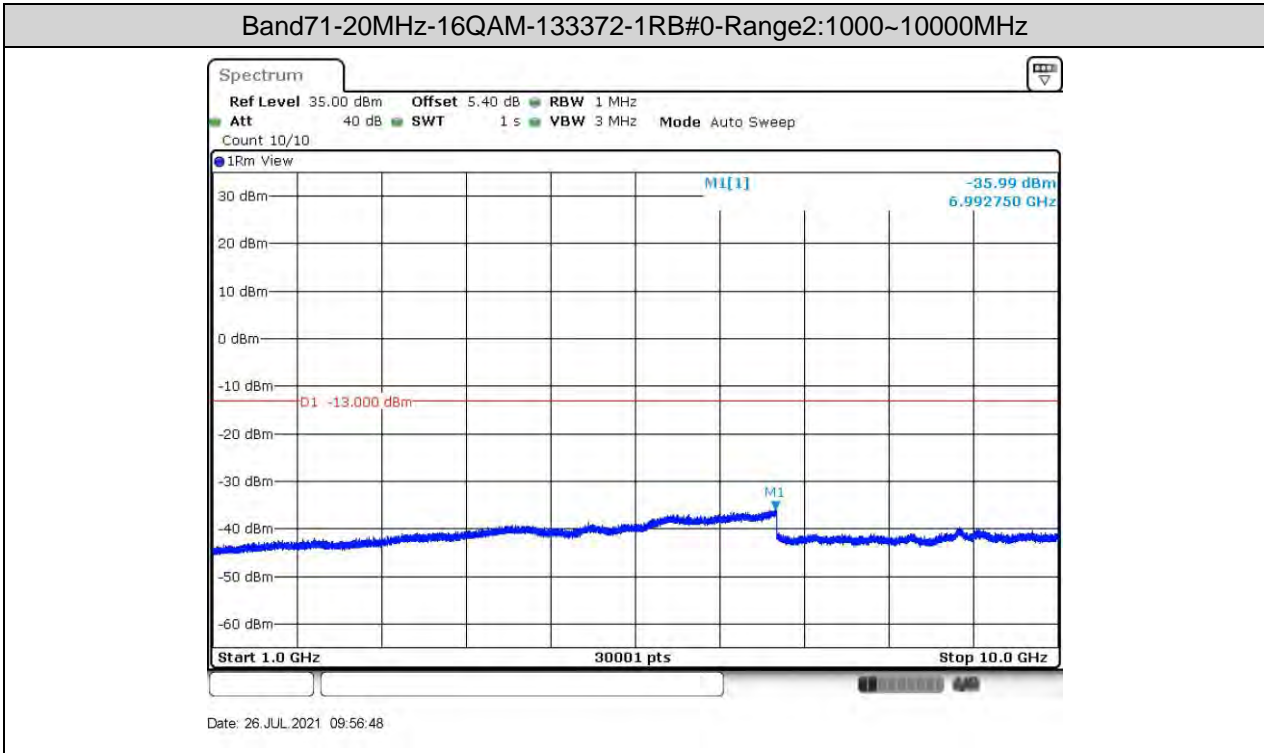


Date: 26 JUL 2021 09:56:33



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## 7. Field Strength of Spurious Radiation

### 7.1. Test Band = \_71 \_TM1

#### 7.1.1. Test Channel = Low Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1328.2164	40.30	-49.76	-13.00	36.76	Horizontal
2	1992.0496	43.22	-45.11	-13.00	32.11	Horizontal
3	2656.2828	25.00	-61.71	-13.00	48.71	Horizontal
4	4625.8313	51.50	-62.78	-13.00	49.78	Horizontal
5	7482.6741	49.24	-54.56	-13.00	41.56	Horizontal
6	8984.5992	47.42	-53.23	-13.00	40.23	Horizontal



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**7.2. Test Band = \_71 \_TM1**

**7.2.1. Test Channel = Low Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1328.2164	37.25	-52.81	-13.00	39.81	Vertical
2	1992.2496	36.64	-51.69	-13.00	38.69	Vertical
3	2980.5990	22.34	-63.27	-13.00	50.27	Vertical
4	5726.9863	49.85	-59.76	-13.00	46.76	Vertical
5	7491.4246	48.79	-54.92	-13.00	41.92	Vertical
6	9033.2517	47.82	-52.80	-13.00	39.80	Vertical



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**7.3. Test Band = \_71 \_TM1**

**7.3.1. Test Channel = Mid Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1343.1172	31.79	-58.21	-13.00	45.21	Horizontal
2	2014.8507	38.38	-49.95	-13.00	36.95	Horizontal
3	2975.9988	22.02	-63.61	-13.00	50.61	Horizontal
4	5699.3350	50.11	-58.92	-13.00	45.92	Horizontal
5	7472.8736	48.80	-55.10	-13.00	42.10	Horizontal
6	9044.4522	48.20	-52.45	-13.00	39.45	Horizontal



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**7.4. Test Band = \_71 \_TM1**

**7.4.1. Test Channel = Mid Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1343.2172	29.50	-60.50	-13.00	47.50	Vertical
2	2014.9507	32.65	-55.68	-13.00	42.68	Vertical
3	2880.3940	22.17	-64.26	-13.00	51.26	Vertical
4	4591.1796	50.96	-63.32	-13.00	50.32	Vertical
5	7488.9744	49.00	-54.74	-13.00	41.74	Vertical
6	9039.9020	48.24	-52.40	-13.00	39.40	Vertical



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**7.5. Test Band = \_71 \_TM1**

**7.5.1. Test Channel = High Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2037.5519	38.51	-49.79	-13.00	36.79	Horizontal
2	2835.4918	21.82	-64.37	-13.00	51.37	Horizontal
3	3939.0970	51.95	-64.98	-13.00	51.98	Horizontal
4	5692.3346	50.20	-58.92	-13.00	45.92	Horizontal
5	7604.1302	47.49	-56.07	-13.00	43.07	Horizontal
6	9018.2009	47.71	-52.86	-13.00	39.86	Horizontal



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**7.6. Test Band = \_71 \_TM1**

**7.6.1. Test Channel = High Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1358.1179	36.10	-53.86	-13.00	40.86	Vertical
2	2037.2519	32.74	-55.56	-13.00	42.56	Vertical
3	2974.4987	22.28	-63.35	-13.00	50.35	Vertical
4	5699.6850	50.19	-58.83	-13.00	45.83	Vertical
5	7473.2237	49.40	-54.49	-13.00	41.49	Vertical
6	9602.7301	47.01	-52.23	-13.00	39.23	Vertical

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

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band71	20MHz	QPSK	133222	100RB#0	VL	NT	-2.40	-0.003566	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	VN	NT	-1.30	-0.001932	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	VH	NT	-2.70	-0.004012	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	VL	NT	-1.80	-0.002635	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	VN	NT	-2.30	-0.003367	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	VH	NT	0.20	0.000293	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	VL	NT	-1.60	-0.002326	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	VN	NT	-2.10	-0.003052	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	VH	NT	-0.70	-0.001017	±2.5	PASS
Band71	20MHz	16QAM	133222	100RB#0	VL	NT	-2.50	-0.003715	±2.5	PASS
Band71	20MHz	16QAM	133222	100RB#0	VN	NT	-0.70	-0.001040	±2.5	PASS
Band71	20MHz	16QAM	133222	100RB#0	VH	NT	-0.40	-0.000594	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	VL	NT	-1.20	-0.001757	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	VN	NT	-0.70	-0.001025	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	VH	NT	-0.60	-0.000878	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	VL	NT	-1.50	-0.002180	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	VN	NT	0.30	0.000436	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	VH	NT	-1.30	-0.001890	±2.5	PASS



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## 8.2. Frequency Vs Temperature

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band71	20MHz	QPSK	133222	100RB#0	NV	-30	-2.80	-0.004160	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	NV	-20	-0.80	-0.001189	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	NV	-10	-1.00	-0.001486	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	NV	0	-1.50	-0.002229	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	NV	10	-1.80	-0.002675	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	NV	20	-2.40	-0.003566	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	NV	30	-2.40	-0.003566	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	NV	40	0.00	0.000000	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	NV	50	-0.10	-0.000149	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	-30	-1.10	-0.001611	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	-20	-0.60	-0.000878	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	-10	-1.10	-0.001611	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	0	-1.90	-0.002782	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	10	-1.80	-0.002635	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	20	-2.00	-0.002928	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	30	-2.40	-0.003514	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	40	-0.60	-0.000878	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	50	-0.60	-0.000878	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	NV	-30	-1.00	-0.001453	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	NV	-20	-1.50	-0.002180	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	NV	-10	-2.70	-0.003924	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	NV	0	-1.90	-0.002762	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	NV	10	-2.20	-0.003198	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	NV	20	-1.80	-0.002616	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	NV	30	-2.20	-0.003198	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	NV	40	-1.00	-0.001453	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	NV	50	-1.10	-0.001599	±2.5	PASS
Band71	20MHz	16QAM	133222	100RB#0	NV	-30	-1.00	-0.001486	±2.5	PASS
Band71	20MHz	16QAM	133222	100RB#0	NV	-20	-0.10	-0.000149	±2.5	PASS



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Band71	20MHz	16QAM	133222	100RB#0	NV	-10	-2.60	-0.003863	±2.5	PASS
Band71	20MHz	16QAM	133222	100RB#0	NV	0	-1.90	-0.002823	±2.5	PASS
Band71	20MHz	16QAM	133222	100RB#0	NV	10	-0.10	-0.000149	±2.5	PASS
Band71	20MHz	16QAM	133222	100RB#0	NV	20	-1.10	-0.001634	±2.5	PASS
Band71	20MHz	16QAM	133222	100RB#0	NV	30	-0.70	-0.001040	±2.5	PASS
Band71	20MHz	16QAM	133222	100RB#0	NV	40	-1.50	-0.002229	±2.5	PASS
Band71	20MHz	16QAM	133222	100RB#0	NV	50	-0.90	-0.001337	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	NV	-30	-1.00	-0.001464	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	NV	-20	-0.30	-0.000439	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	NV	-10	-0.10	-0.000146	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	NV	0	-0.90	-0.001318	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	NV	10	-1.10	-0.001611	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	NV	20	-1.60	-0.002343	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	NV	30	-1.70	-0.002489	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	NV	40	-0.10	-0.000146	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	NV	50	-1.10	-0.001611	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	NV	-30	-2.40	-0.003488	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	NV	-20	-2.10	-0.003052	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	NV	-10	-2.10	-0.003052	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	NV	0	-2.00	-0.002907	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	NV	10	-1.50	-0.002180	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	NV	20	-2.10	-0.003052	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	NV	30	-1.90	-0.002762	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	NV	40	-0.40	-0.000581	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	NV	50	-0.60	-0.000872	±2.5	PASS

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