



# Appendix B

## E-UTRA Band 17



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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
Band17	5MHz	QPSK	23755	1RB#12	23.65	13.06	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#0	23.79	13.2	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#24	23.74	13.15	34.77	PASS
Band17	5MHz	QPSK	23755	12RB#6	22.76	12.17	34.77	PASS
Band17	5MHz	QPSK	23755	12RB#0	22.79	12.2	34.77	PASS
Band17	5MHz	QPSK	23755	12RB#13	22.7	12.11	34.77	PASS
Band17	5MHz	QPSK	23755	25RB#0	22.78	12.19	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#0	23.63	13.04	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#24	23.81	13.22	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#12	23.59	13	34.77	PASS
Band17	5MHz	QPSK	23790	12RB#0	22.78	12.19	34.77	PASS
Band17	5MHz	QPSK	23790	12RB#13	22.69	12.1	34.77	PASS
Band17	5MHz	QPSK	23790	12RB#6	22.7	12.11	34.77	PASS
Band17	5MHz	QPSK	23790	25RB#0	22.75	12.16	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#24	23.62	13.03	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#12	23.81	13.22	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#0	23.61	13.02	34.77	PASS
Band17	5MHz	QPSK	23825	12RB#6	22.68	12.09	34.77	PASS
Band17	5MHz	QPSK	23825	12RB#0	22.8	12.21	34.77	PASS
Band17	5MHz	QPSK	23825	12RB#13	22.68	12.09	34.77	PASS
Band17	5MHz	QPSK	23825	25RB#0	22.68	12.09	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#24	21.8	11.21	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#0	21.63	11.04	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#12	21.57	10.98	34.77	PASS
Band17	5MHz	64QAM	23755	12RB#13	20.88	10.29	34.77	PASS
Band17	5MHz	64QAM	23755	12RB#6	20.84	10.25	34.77	PASS
Band17	5MHz	64QAM	23755	12RB#0	20.68	10.09	34.77	PASS



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Band17	5MHz	64QAM	23755	25RB#0	20.64	10.05	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#24	21.77	11.18	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#12	21.52	10.93	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#0	21.62	11.03	34.77	PASS
Band17	5MHz	64QAM	23790	12RB#13	20.88	10.29	34.77	PASS
Band17	5MHz	64QAM	23790	12RB#6	20.85	10.26	34.77	PASS
Band17	5MHz	64QAM	23790	12RB#0	20.56	9.97	34.77	PASS
Band17	5MHz	64QAM	23790	25RB#0	20.65	10.06	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#0	21.81	11.22	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#24	21.52	10.93	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#12	21.51	10.92	34.77	PASS
Band17	5MHz	64QAM	23825	12RB#6	20.82	10.23	34.77	PASS
Band17	5MHz	64QAM	23825	12RB#13	20.9	10.31	34.77	PASS
Band17	5MHz	64QAM	23825	12RB#0	20.67	10.08	34.77	PASS
Band17	5MHz	64QAM	23825	25RB#0	20.57	9.98	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#24	23.02	12.43	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#0	22.84	12.25	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#12	23.07	12.48	34.77	PASS
Band17	5MHz	16QAM	23755	12RB#13	22.01	11.42	34.77	PASS
Band17	5MHz	16QAM	23755	12RB#6	21.83	11.24	34.77	PASS
Band17	5MHz	16QAM	23755	12RB#0	21.74	11.15	34.77	PASS
Band17	5MHz	16QAM	23755	25RB#0	21.76	11.17	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#0	22.77	12.18	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#12	22.81	12.22	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#24	22.67	12.08	34.77	PASS
Band17	5MHz	16QAM	23790	12RB#0	22.05	11.46	34.77	PASS
Band17	5MHz	16QAM	23790	12RB#13	21.9	11.31	34.77	PASS
Band17	5MHz	16QAM	23790	12RB#6	21.77	11.18	34.77	PASS
Band17	5MHz	16QAM	23790	25RB#0	21.79	11.2	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#12	22.63	12.04	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#24	23.22	12.63	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#0	22.71	12.12	34.77	PASS
Band17	5MHz	16QAM	23825	12RB#0	22.02	11.43	34.77	PASS



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Band17	5MHz	16QAM	23825	12RB#6	21.78	11.19	34.77	PASS
Band17	5MHz	16QAM	23825	12RB#13	21.72	11.13	34.77	PASS
Band17	5MHz	16QAM	23825	25RB#0	21.69	11.1	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#0	23.61	13.02	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#49	23.85	13.26	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#24	23.76	13.17	34.77	PASS
Band17	10MHz	QPSK	23780	25RB#0	22.89	12.3	34.77	PASS
Band17	10MHz	QPSK	23780	25RB#25	22.78	12.19	34.77	PASS
Band17	10MHz	QPSK	23780	25RB#12	22.82	12.23	34.77	PASS
Band17	10MHz	QPSK	23780	50RB#0	22.9	12.31	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#49	23.6	13.01	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#0	23.78	13.19	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#24	23.79	13.2	34.77	PASS
Band17	10MHz	QPSK	23790	25RB#0	22.86	12.27	34.77	PASS
Band17	10MHz	QPSK	23790	25RB#12	22.78	12.19	34.77	PASS
Band17	10MHz	QPSK	23790	25RB#25	22.83	12.24	34.77	PASS
Band17	10MHz	QPSK	23790	50RB#0	22.84	12.25	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#0	23.62	13.03	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#24	23.8	13.21	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#49	23.76	13.17	34.77	PASS
Band17	10MHz	QPSK	23800	25RB#25	22.85	12.26	34.77	PASS
Band17	10MHz	QPSK	23800	25RB#0	22.77	12.18	34.77	PASS
Band17	10MHz	QPSK	23800	25RB#12	22.78	12.19	34.77	PASS
Band17	10MHz	QPSK	23800	50RB#0	22.85	12.26	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#49	21.92	11.33	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#24	21.78	11.19	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#0	21.68	11.09	34.77	PASS
Band17	10MHz	64QAM	23780	25RB#25	20.98	10.39	34.77	PASS
Band17	10MHz	64QAM	23780	25RB#0	20.99	10.4	34.77	PASS
Band17	10MHz	64QAM	23780	25RB#12	20.83	10.24	34.77	PASS
Band17	10MHz	64QAM	23780	50RB#0	20.76	10.17	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#24	21.92	11.33	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#49	21.63	11.04	34.77	PASS



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Band17	10MHz	64QAM	23790	1RB#0	21.72	11.13	34.77	PASS
Band17	10MHz	64QAM	23790	25RB#12	21.02	10.43	34.77	PASS
Band17	10MHz	64QAM	23790	25RB#0	20.99	10.4	34.77	PASS
Band17	10MHz	64QAM	23790	25RB#25	20.71	10.12	34.77	PASS
Band17	10MHz	64QAM	23790	50RB#0	20.79	10.2	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#0	21.96	11.37	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#24	21.67	11.08	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#49	21.63	11.04	34.77	PASS
Band17	10MHz	64QAM	23800	25RB#0	20.94	10.35	34.77	PASS
Band17	10MHz	64QAM	23800	25RB#12	21.03	10.44	34.77	PASS
Band17	10MHz	64QAM	23800	25RB#25	20.77	10.18	34.77	PASS
Band17	10MHz	64QAM	23800	50RB#0	20.69	10.1	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#24	23.12	12.53	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#0	23.08	12.49	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#49	22.65	12.06	34.77	PASS
Band17	10MHz	16QAM	23780	25RB#0	22.06	11.47	34.77	PASS
Band17	10MHz	16QAM	23780	25RB#25	21.89	11.3	34.77	PASS
Band17	10MHz	16QAM	23780	25RB#12	21.83	11.24	34.77	PASS
Band17	10MHz	16QAM	23780	50RB#0	21.89	11.3	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#0	23.17	12.58	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#24	23.2	12.61	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#49	22.91	12.32	34.77	PASS
Band17	10MHz	16QAM	23790	25RB#12	22.05	11.46	34.77	PASS
Band17	10MHz	16QAM	23790	25RB#25	21.78	11.19	34.77	PASS
Band17	10MHz	16QAM	23790	25RB#0	21.85	11.26	34.77	PASS
Band17	10MHz	16QAM	23790	50RB#0	21.95	11.36	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#0	22.72	12.13	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#24	23.26	12.67	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#49	23.03	12.44	34.77	PASS
Band17	10MHz	16QAM	23800	25RB#0	22.11	11.52	34.77	PASS
Band17	10MHz	16QAM	23800	25RB#12	21.78	11.19	34.77	PASS
Band17	10MHz	16QAM	23800	25RB#25	21.76	11.17	34.77	PASS
Band17	10MHz	16QAM	23800	50RB#0	21.87	11.28	34.77	PASS



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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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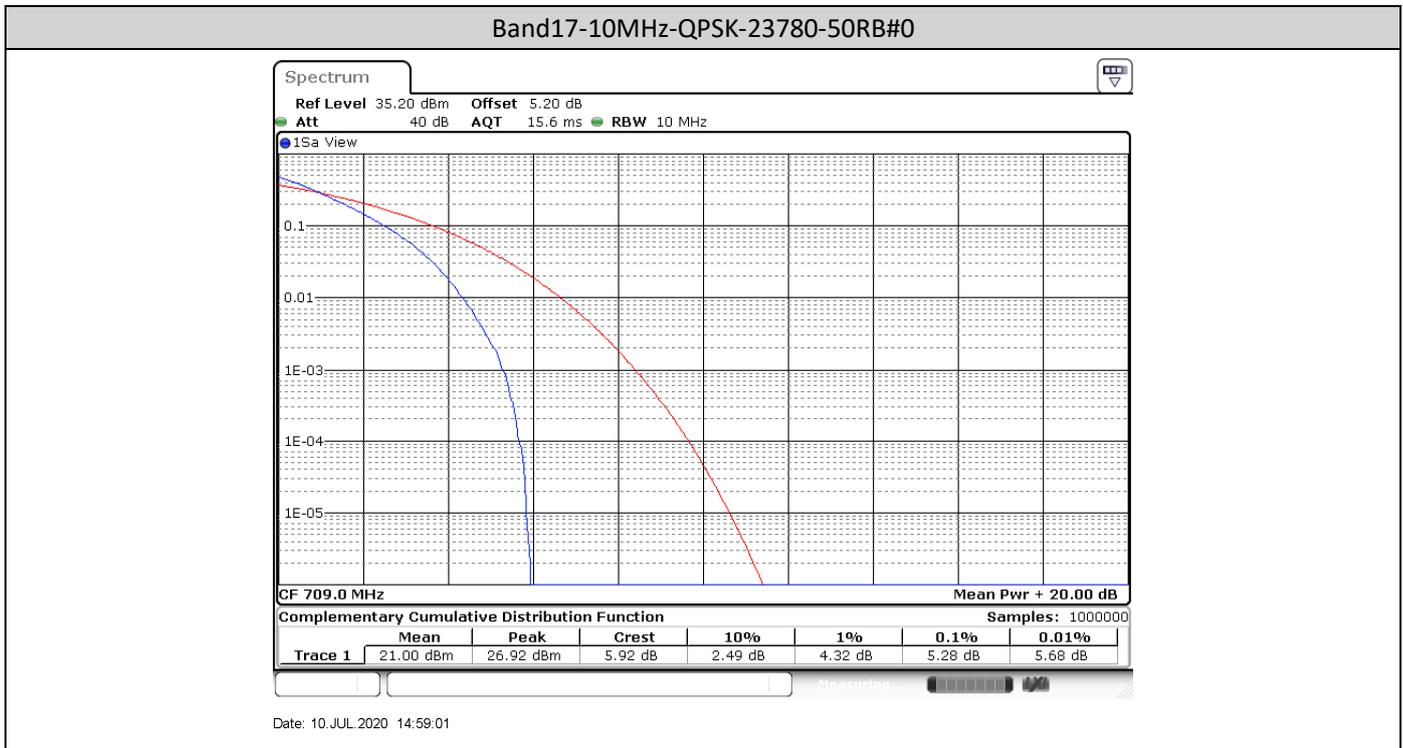


## 2. Peak-to-Average Ratio (CCDF)

### 2.1. Test Result

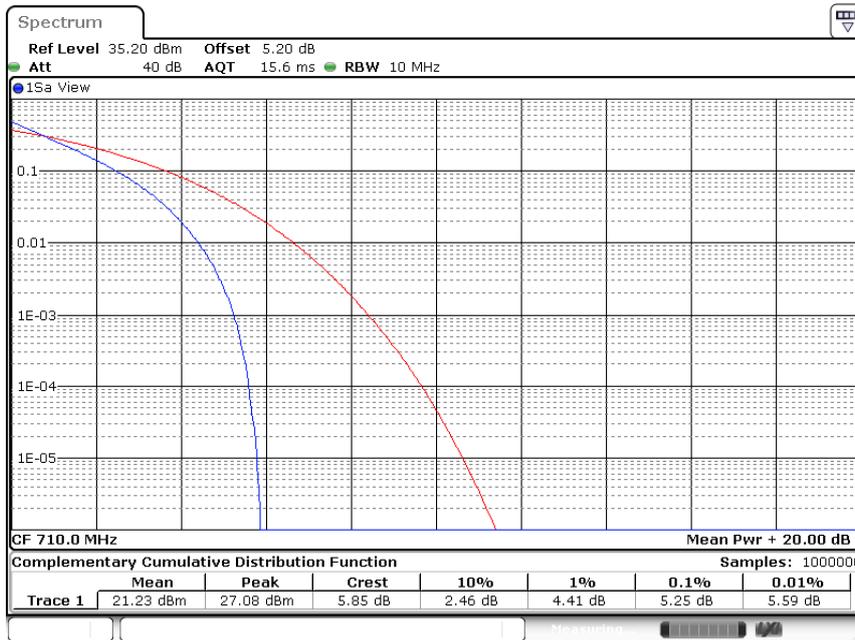
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band17	10MHz	QPSK	23780	50RB#0	5.28	13	PASS
Band17	10MHz	QPSK	23790	50RB#0	5.25	13	PASS
Band17	10MHz	QPSK	23800	50RB#0	5.19	13	PASS
Band17	10MHz	64QAM	23780	50RB#0	6.38	13	PASS
Band17	10MHz	64QAM	23790	50RB#0	6.41	13	PASS
Band17	10MHz	64QAM	23800	50RB#0	6.46	13	PASS
Band17	10MHz	16QAM	23780	50RB#0	5.94	13	PASS
Band17	10MHz	16QAM	23790	50RB#0	6.00	13	PASS
Band17	10MHz	16QAM	23800	50RB#0	6.03	13	PASS

### 2.2. Test Plots



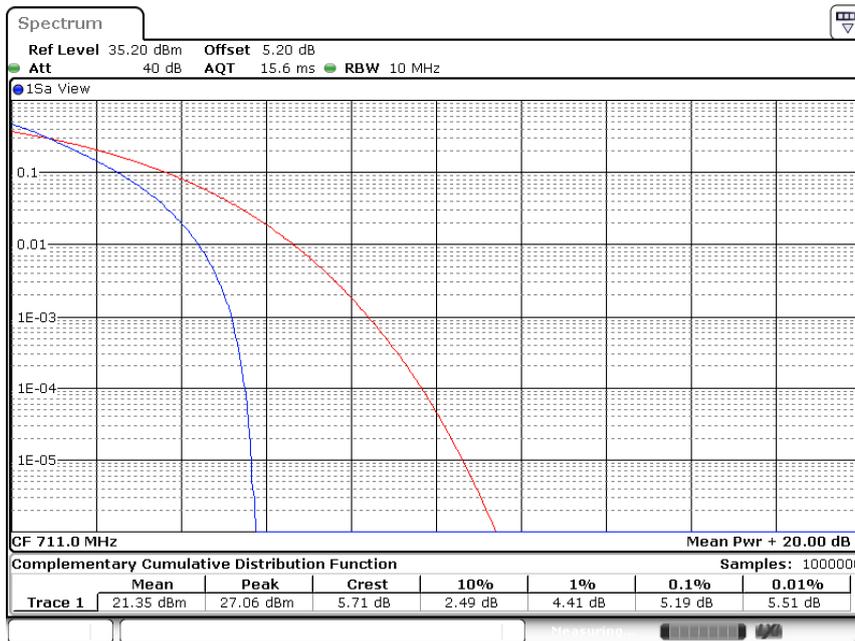
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**Band17-10MHz-QPSK-23790-50RB#0**



Date: 10.JUL.2020 14:59:24

**Band17-10MHz-QPSK-23800-50RB#0**



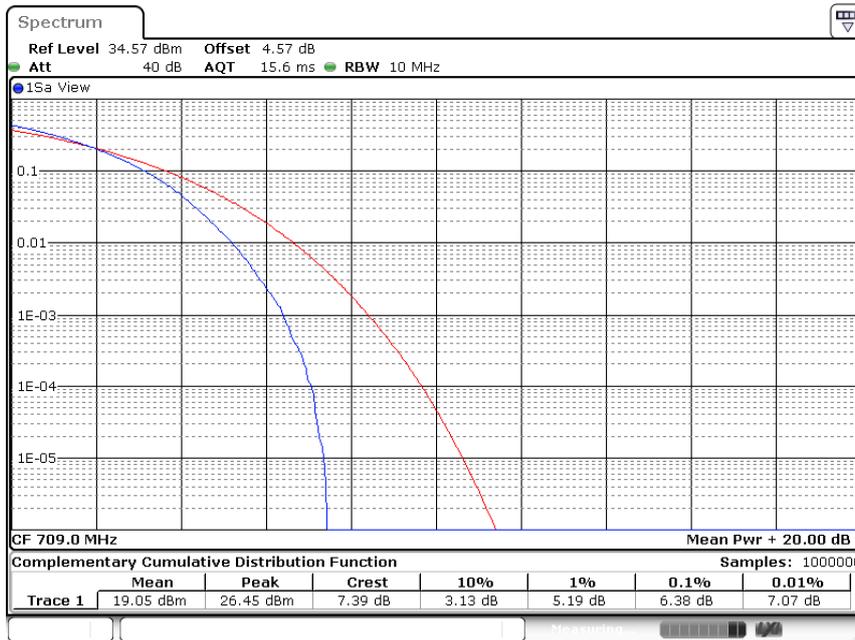
Date: 10.JUL.2020 14:59:46



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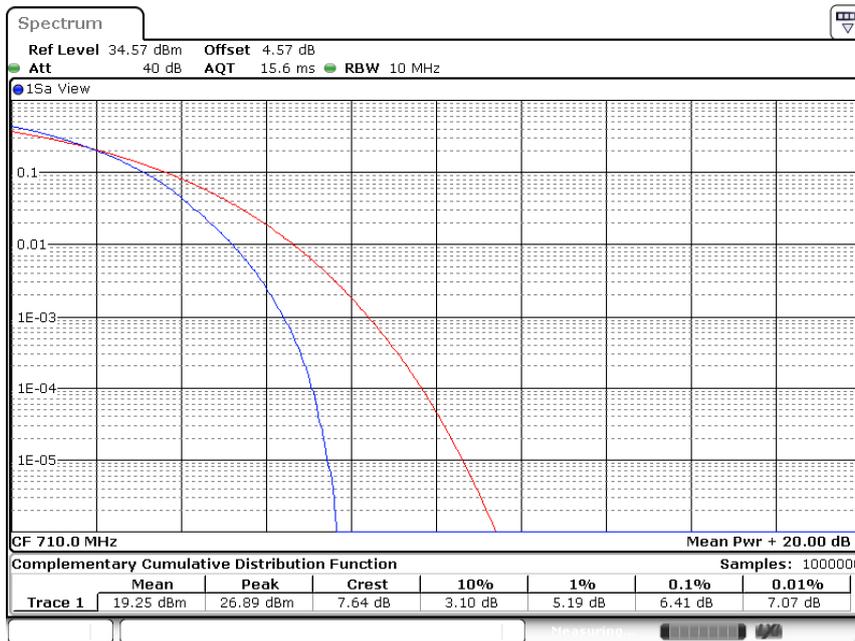
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**Band17-10MHz-64QAM-23780-50RB#0**



Date: 14 JUL 2020 08:46:44

**Band17-10MHz-64QAM-23790-50RB#0**



Date: 14 JUL 2020 08:46:56



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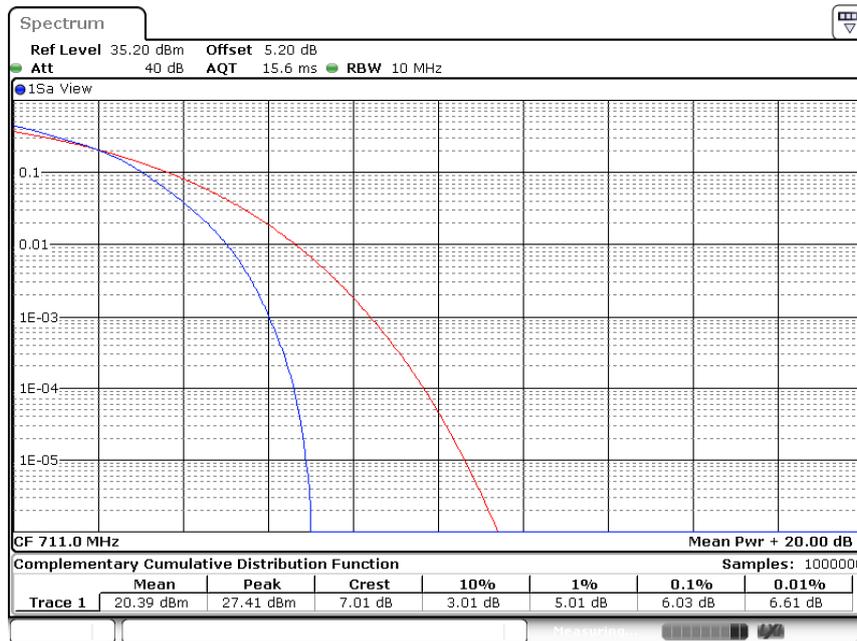


**Band17-10MHz-16QAM-23790-50RB#0**



Date: 10.JUL.2020 14:59:35

**Band17-10MHz-16QAM-23800-50RB#0**



Date: 10.JUL.2020 14:59:57



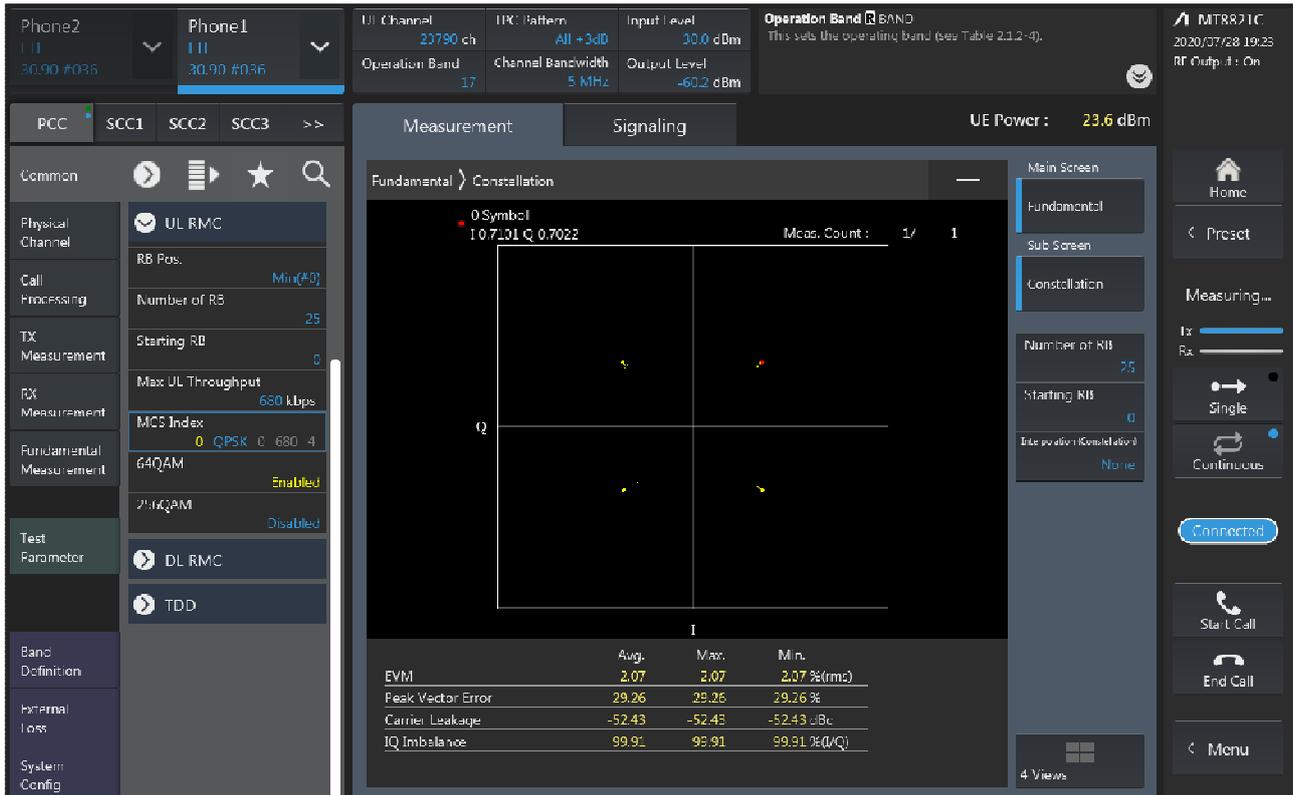
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### 3. Modulation Characteristics

#### 3.1. Test Mode = LTE /TM1 10MHz

##### 3.1.1. Test Channel = MCH

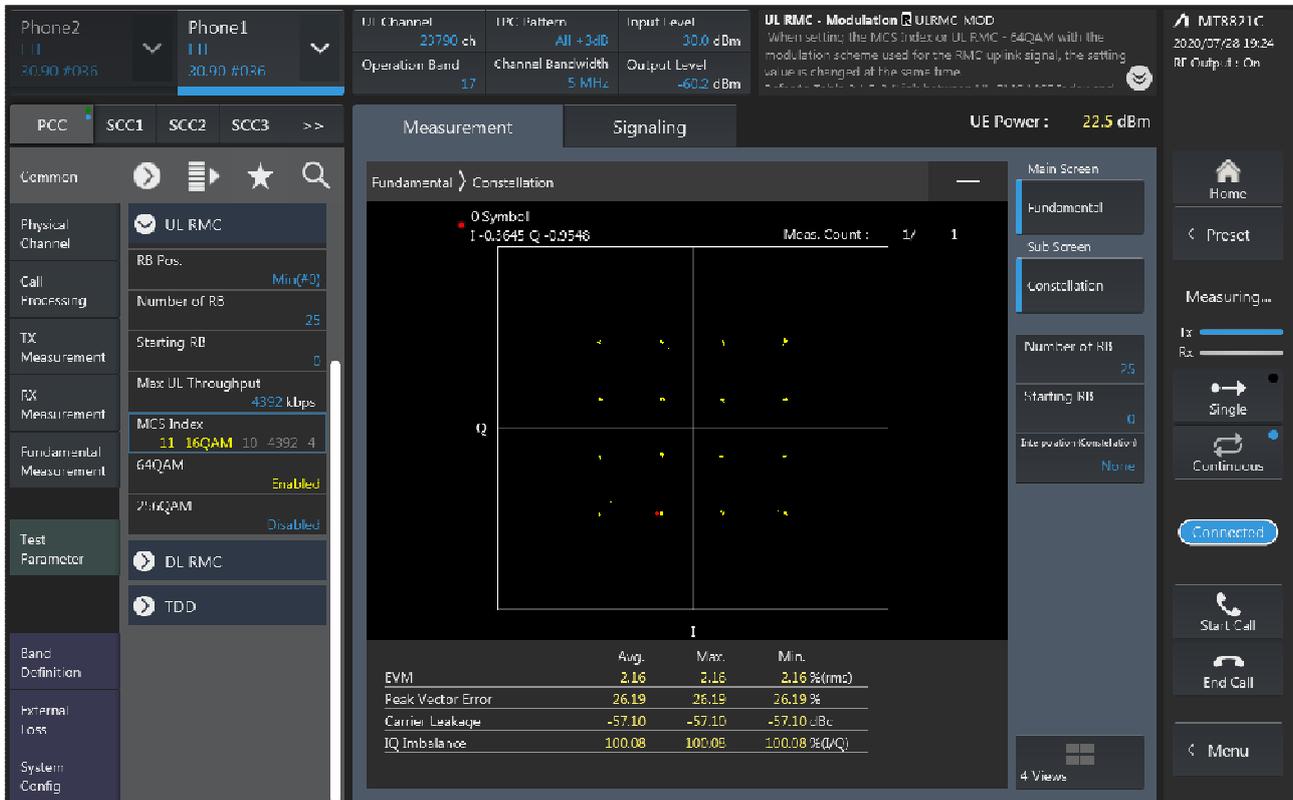


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### 3.2. Test Mode = LTE /TM2 10MHz

#### 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
Band17	5MHz	QPSK	23755	25RB#0	4.476	4.980	PASS
Band17	5MHz	QPSK	23790	25RB#0	4.486	5.150	PASS
Band17	5MHz	QPSK	23825	25RB#0	4.466	5.030	PASS
Band17	5MHz	64QAM	23755	25RB#0	4.476	4.970	PASS
Band17	5MHz	64QAM	23790	25RB#0	4.486	5.060	PASS
Band17	5MHz	64QAM	23825	25RB#0	4.486	5.100	PASS
Band17	5MHz	16QAM	23755	25RB#0	4.486	5.050	PASS
Band17	5MHz	16QAM	23790	25RB#0	4.505	5.130	PASS
Band17	5MHz	16QAM	23825	25RB#0	4.496	5.040	PASS
Band17	10MHz	QPSK	23780	50RB#0	8.951	9.840	PASS
Band17	10MHz	QPSK	23790	50RB#0	8.971	9.980	PASS
Band17	10MHz	QPSK	23800	50RB#0	8.971	9.940	PASS
Band17	10MHz	64QAM	23780	50RB#0	8.971	9.780	PASS
Band17	10MHz	64QAM	23790	50RB#0	8.971	10.120	PASS
Band17	10MHz	64QAM	23800	50RB#0	8.971	9.920	PASS
Band17	10MHz	16QAM	23780	50RB#0	8.951	9.860	PASS
Band17	10MHz	16QAM	23790	50RB#0	8.991	10.100	PASS
Band17	10MHz	16QAM	23800	50RB#0	8.991	9.920	PASS

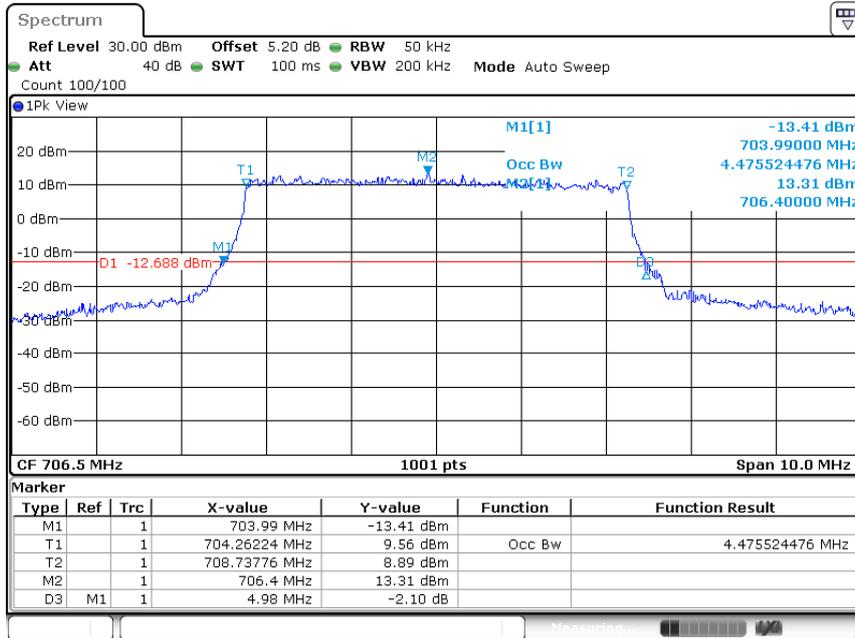


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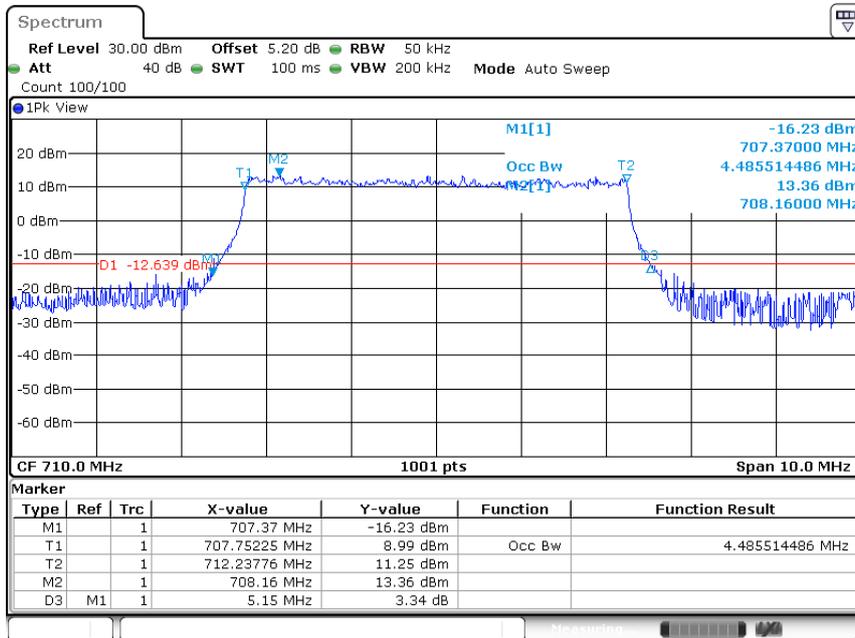
### 4.2. Test Plots

**Band17-5MHz-QPSK-23755-25RB#0-4.476**



Date: 10.JUL.2020 14:42:10

**Band17-5MHz-QPSK-23790-25RB#0-4.486**

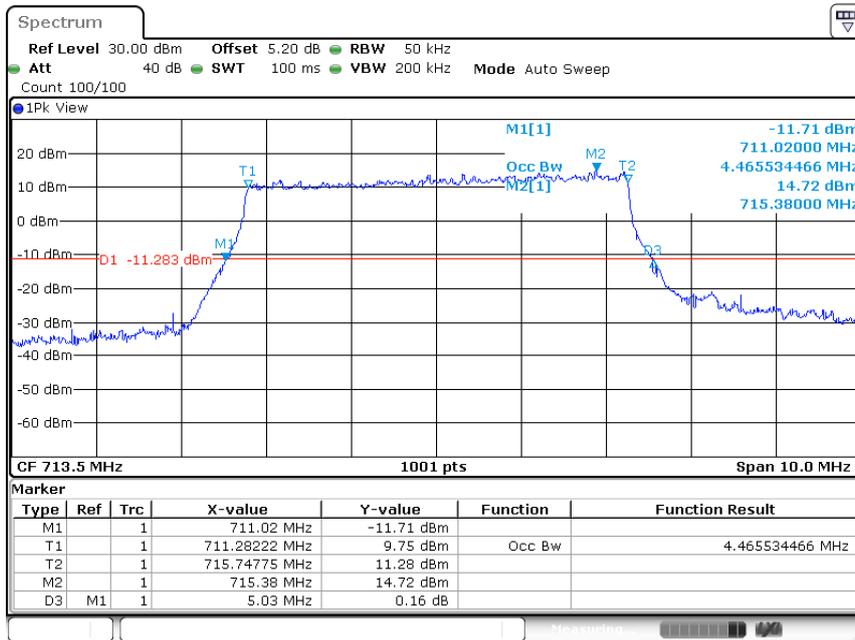


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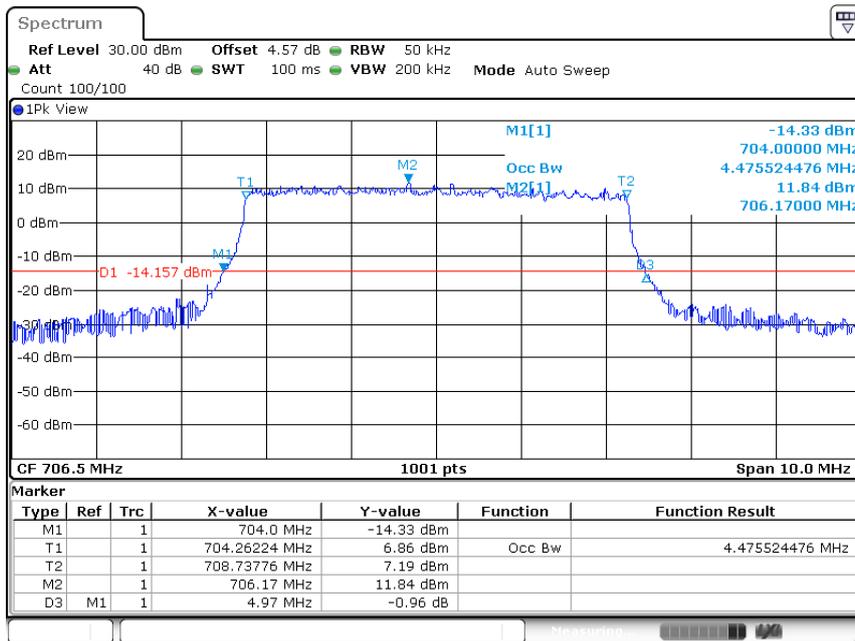


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**Band17-5MHz-QPSK-23825-25RB#0-4.466**



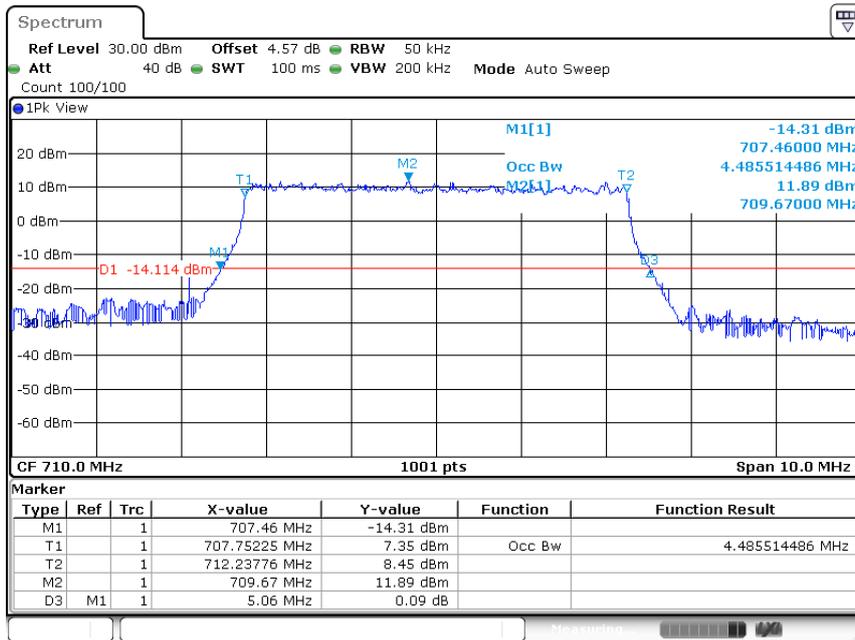
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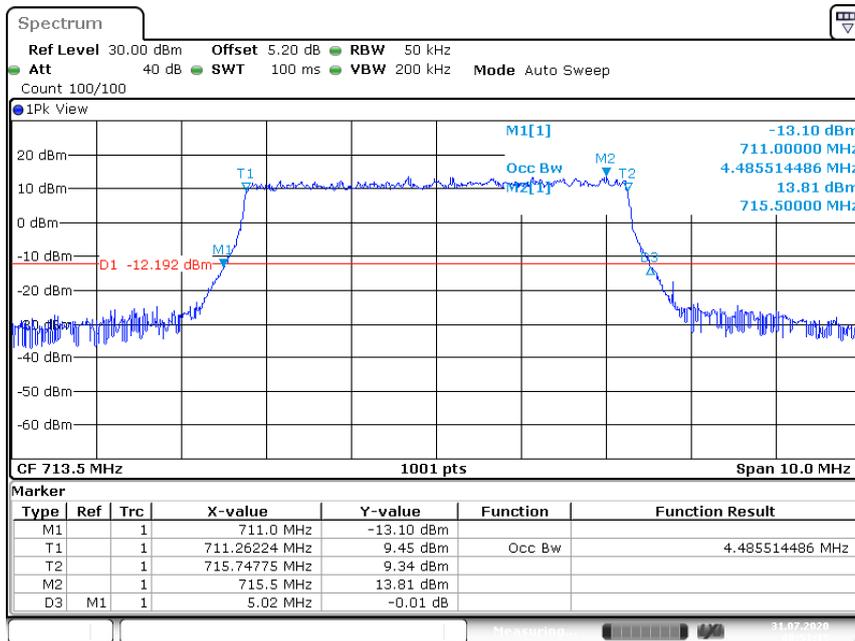
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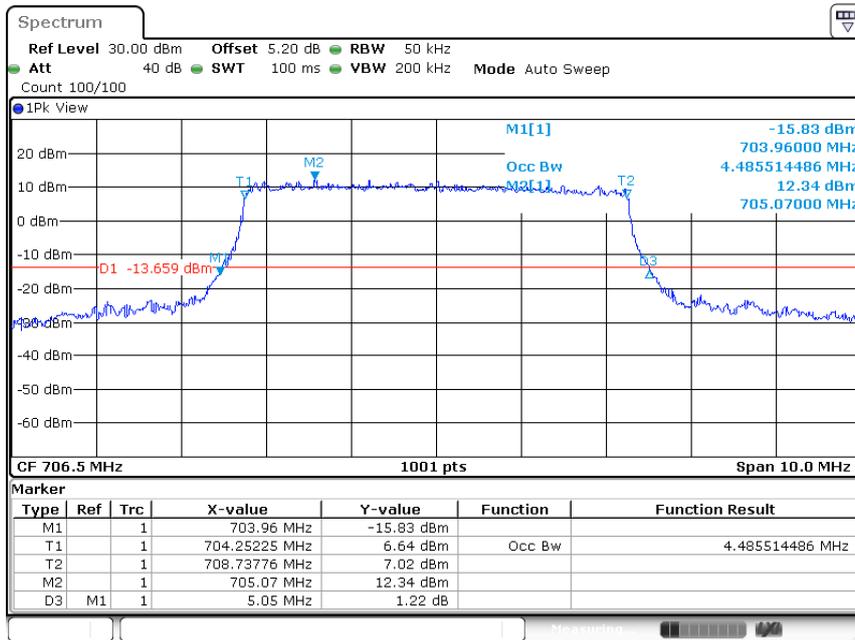


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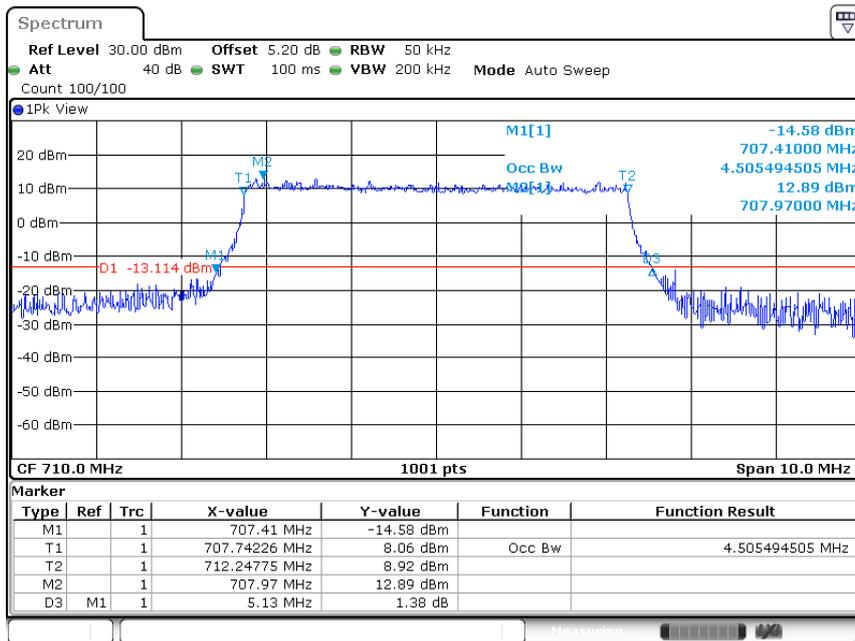


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**Band17-5MHz-16QAM-23755-25RB#0-4.486**



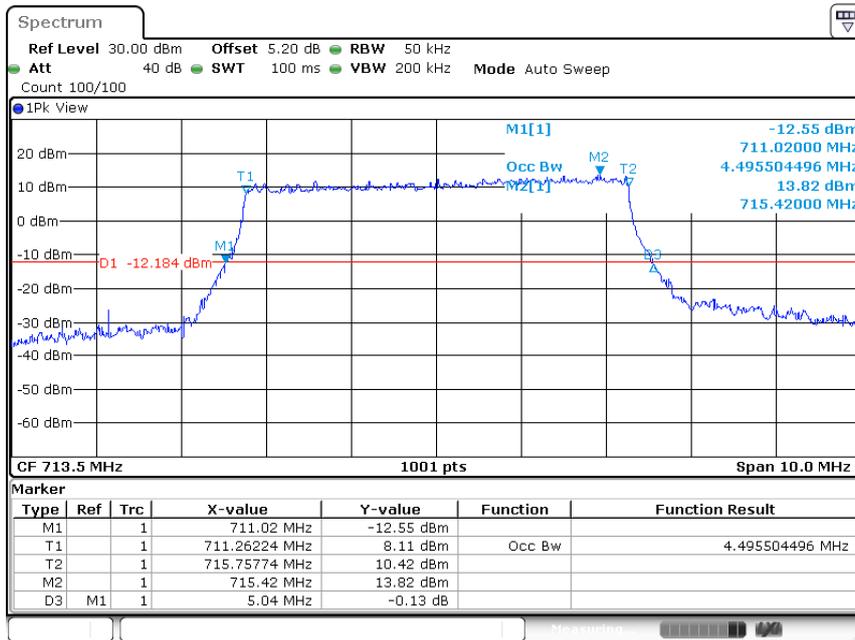
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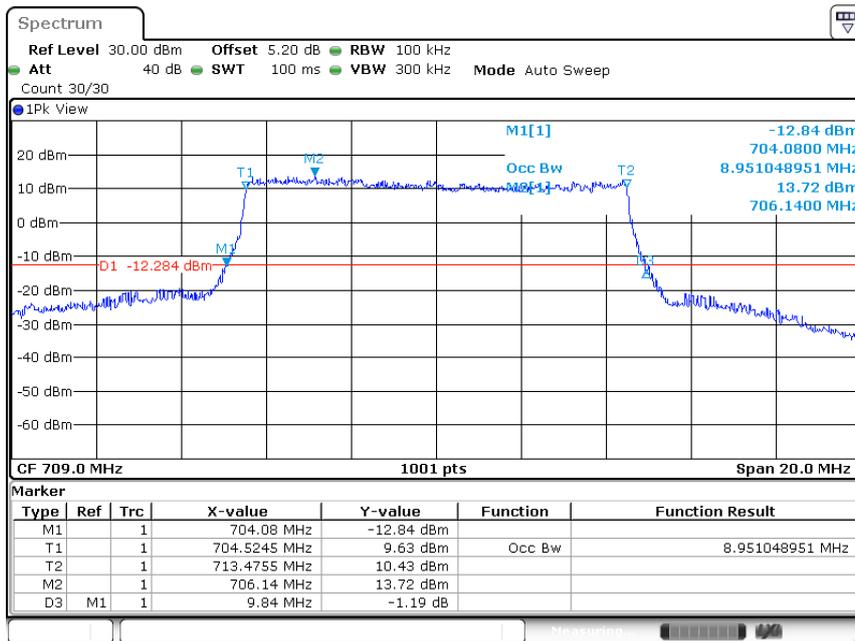
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**Band17-5MHz-16QAM-23825-25RB#0-4.496**



**Band17-10MHz-QPSK-23780-50RB#0-8.951**

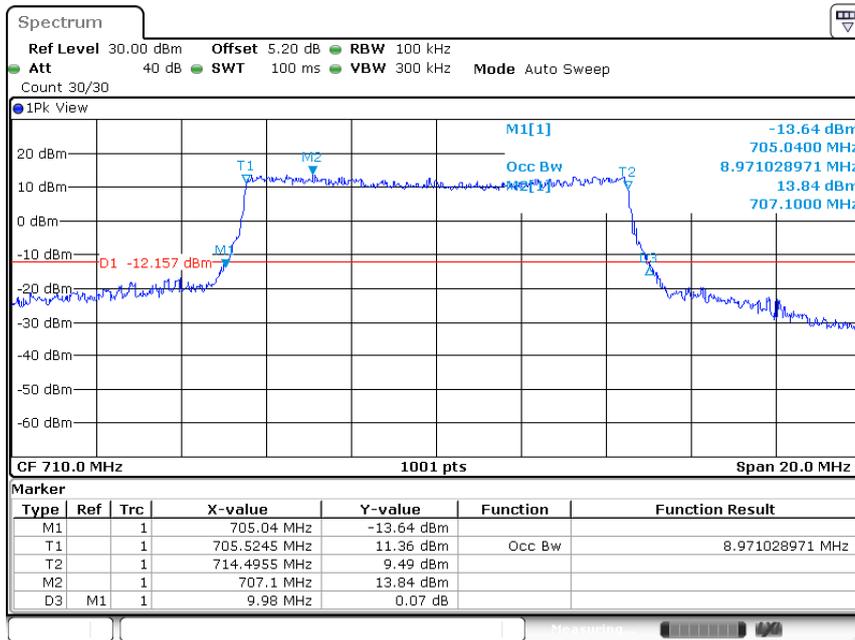


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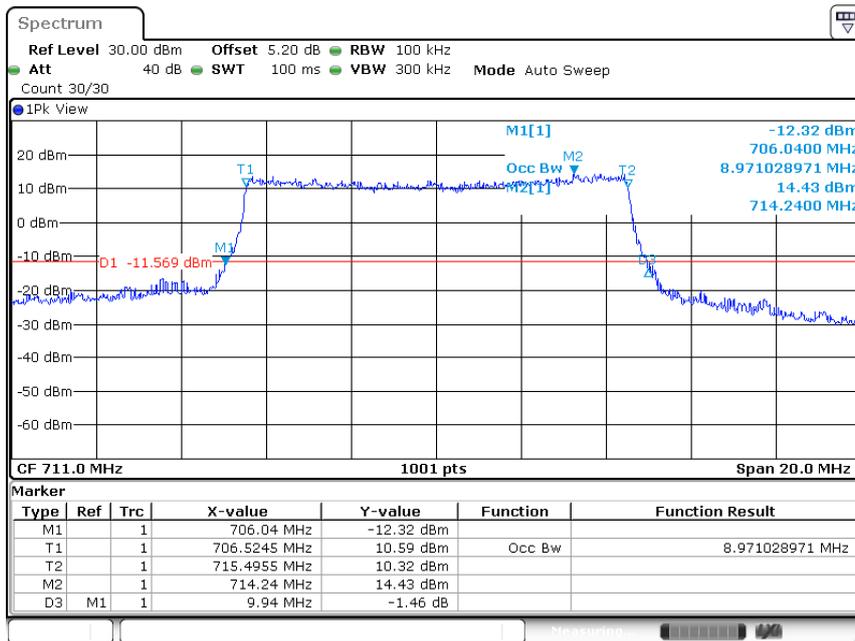
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**Band17-10MHz-QPSK-23790-50RB#0-8.971**



Date: 10 JUL 2020 14:44:32

**Band17-10MHz-QPSK-23800-50RB#0-8.971**

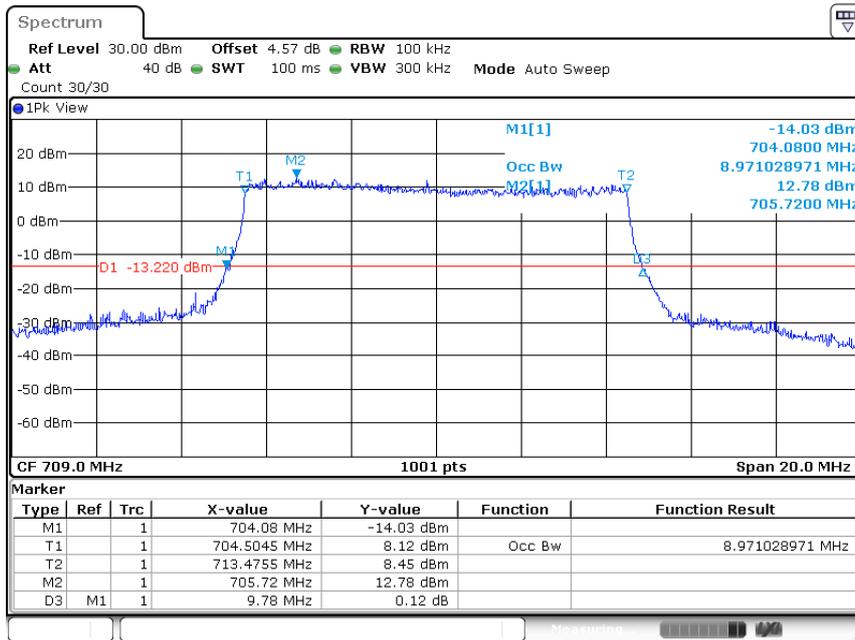


Date: 10 JUL 2020 14:44:58

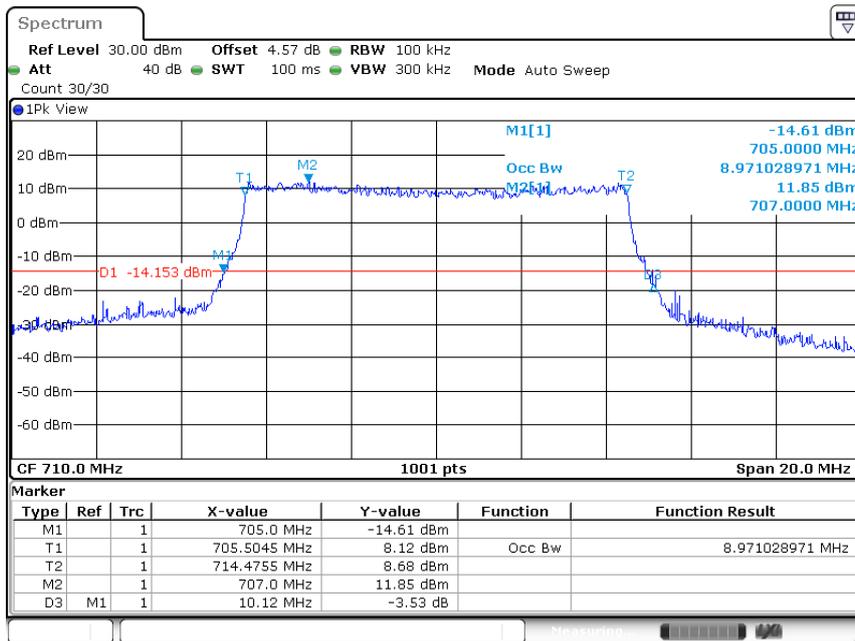


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**Band17-10MHz-64QAM-23780-50RB#0-8.971**



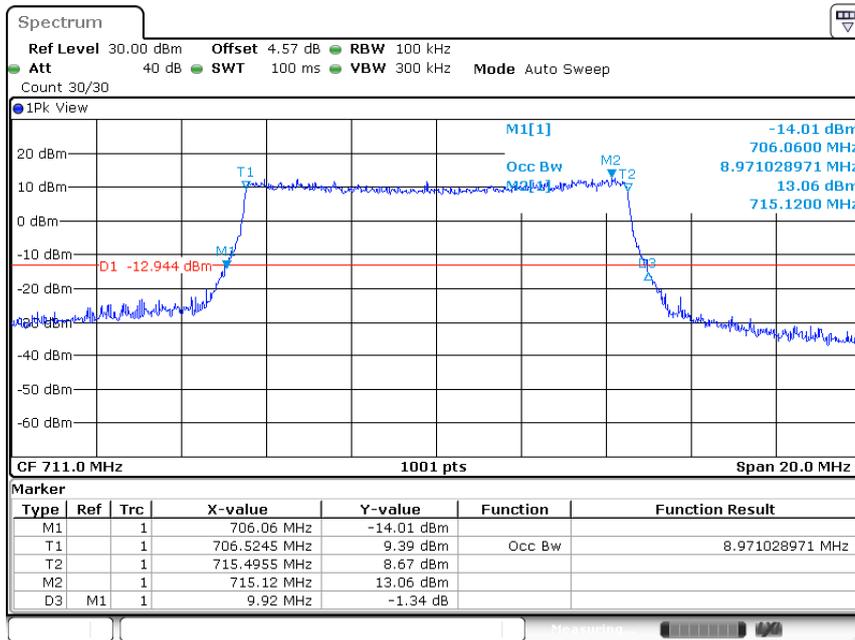
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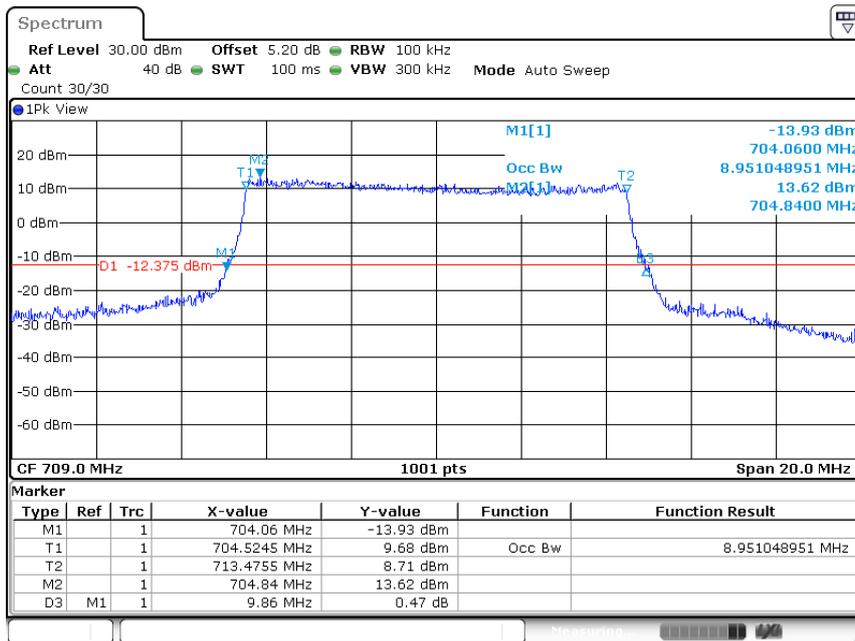


**Band17-10MHz-64QAM-23800-50RB#0-8.971**



Date: 14.JUL.2020 08:39:29

**Band17-10MHz-16QAM-23780-50RB#0-8.951**

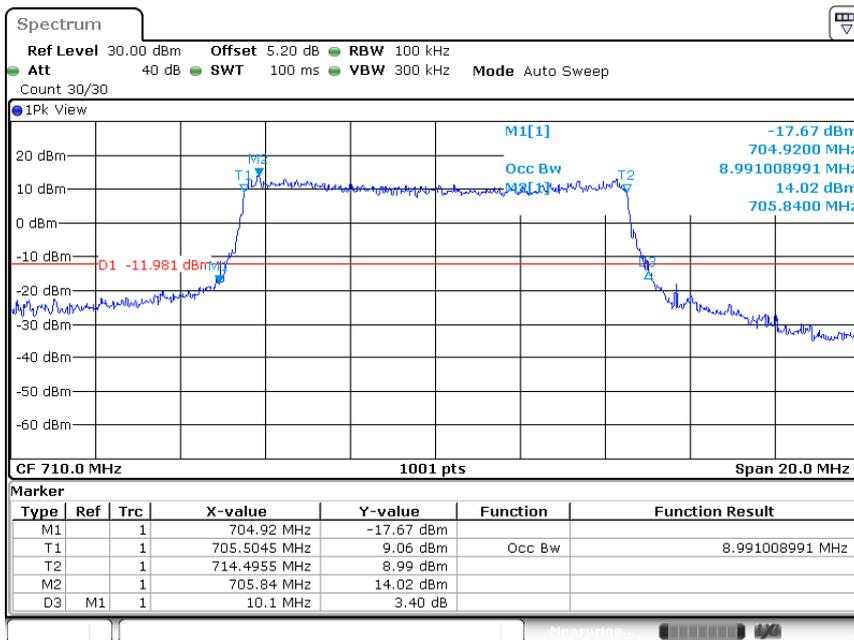


Date: 10.JUL.2020 14:44:19



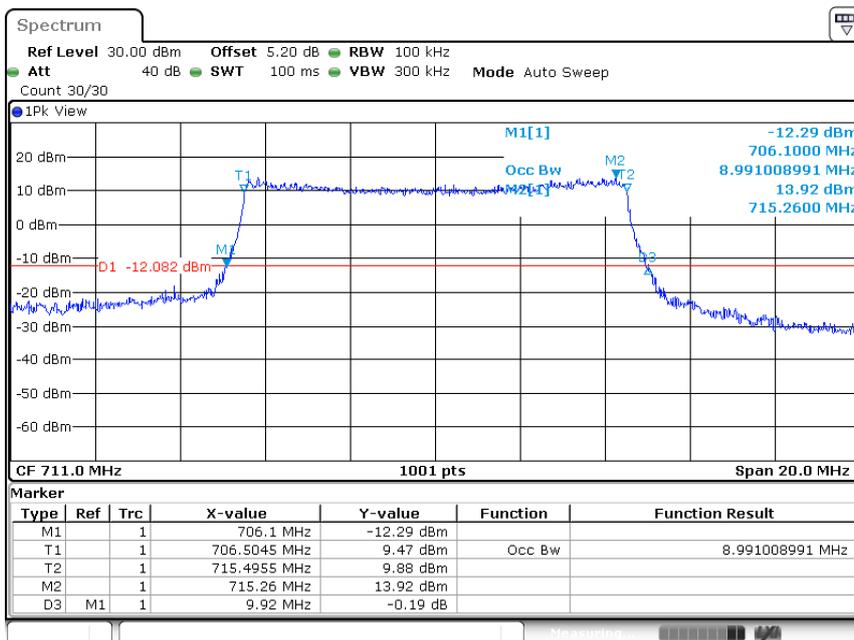
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**Band17-10MHz-16QAM-23790-50RB#0-8.991**



Date: 10.JUL.2020 14:44:45

**Band17-10MHz-16QAM-23800-50RB#0-8.991**



Date: 10.JUL.2020 14:45:11



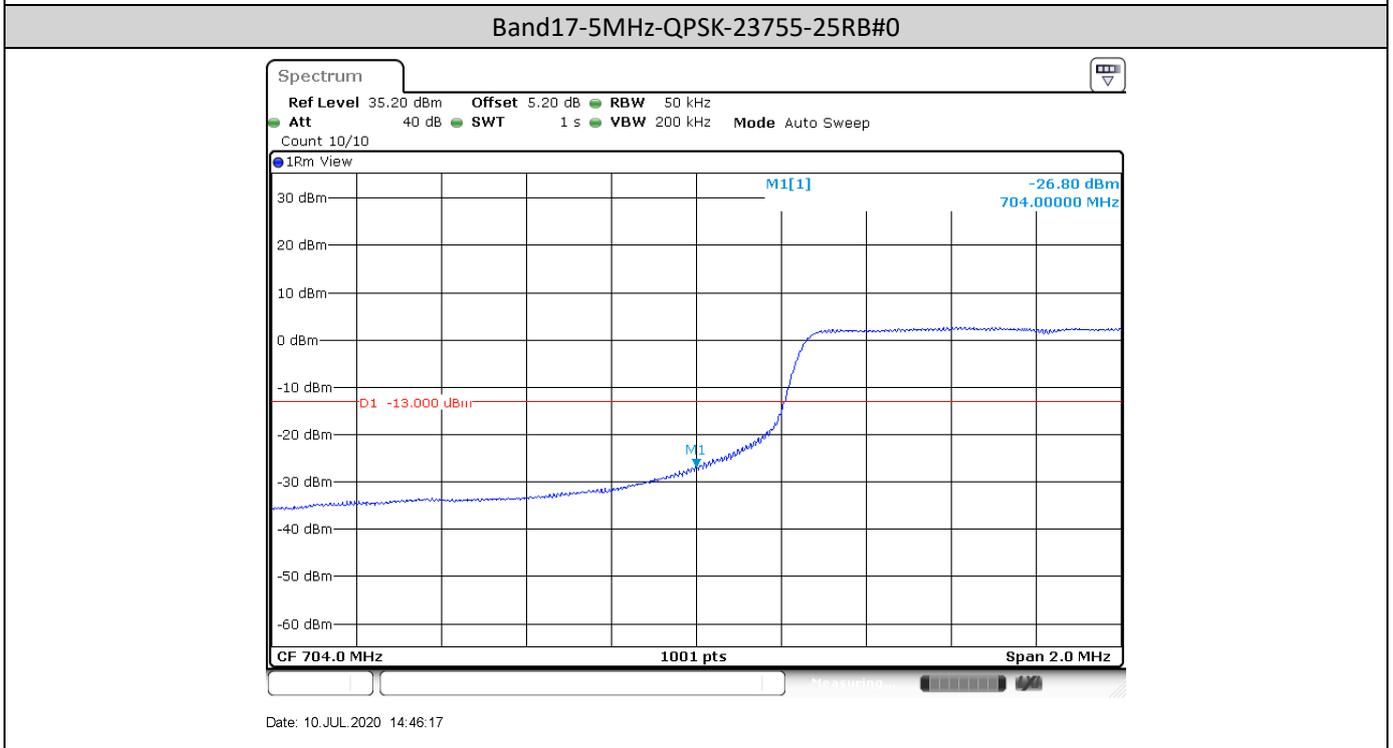
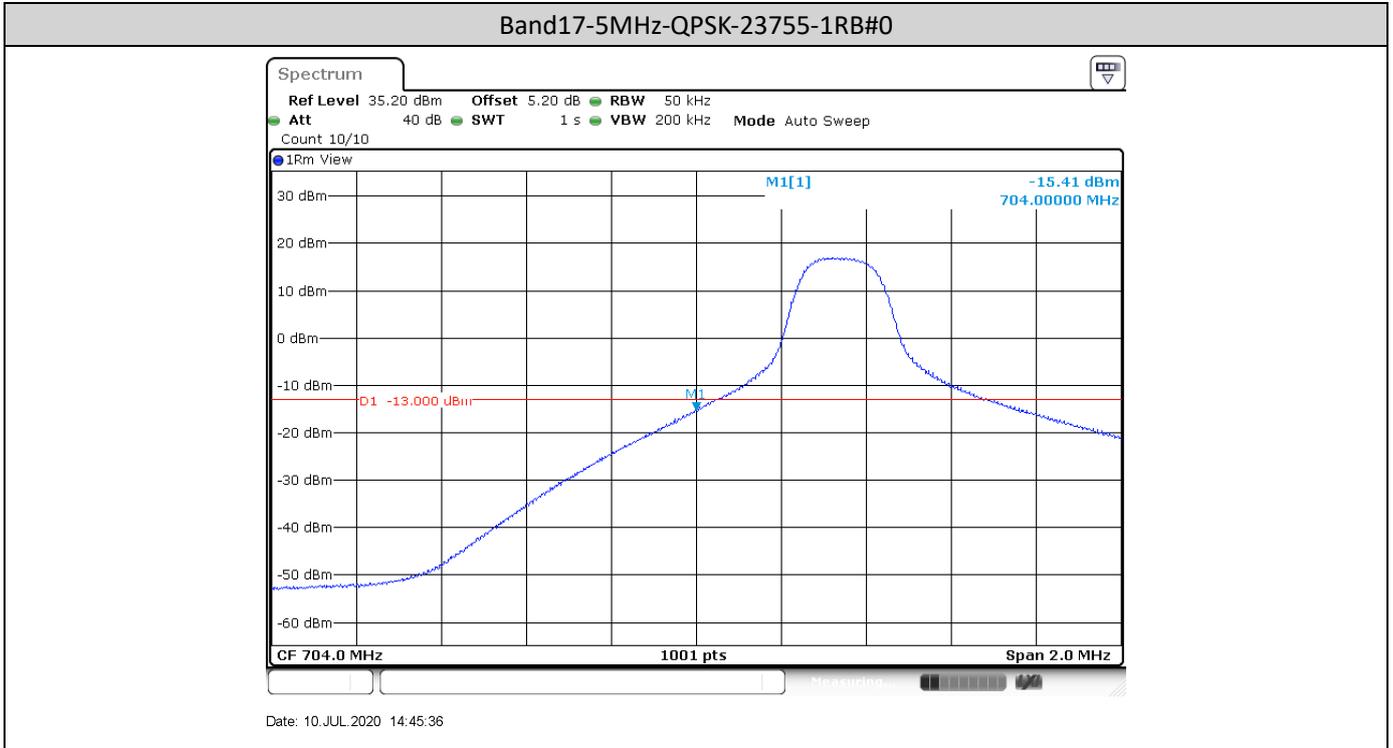
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## 5.2. Test Plots

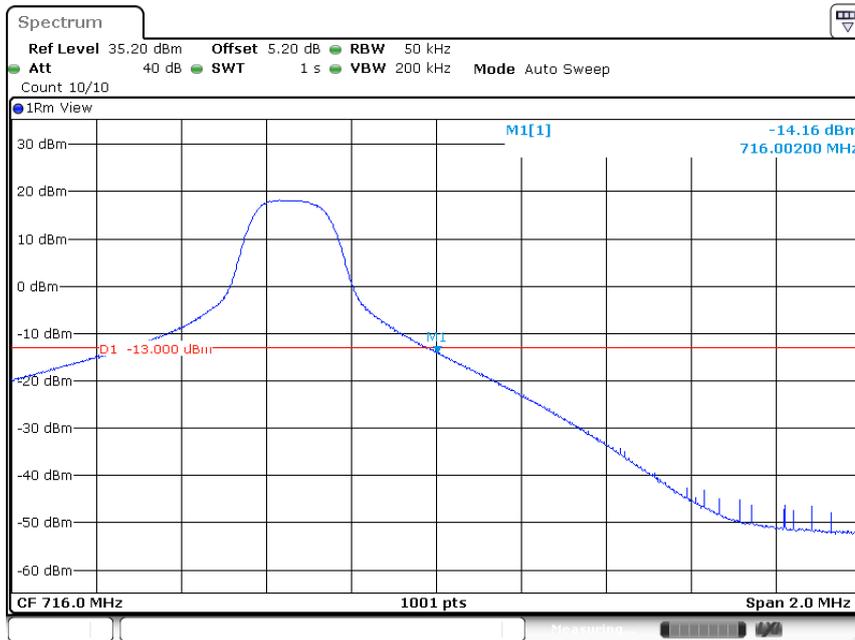


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**Band17-5MHz-QPSK-23825-1RB#24**



Date: 10.JUL.2020 14:47:03

**Band17-5MHz-QPSK-23825-25RB#0**



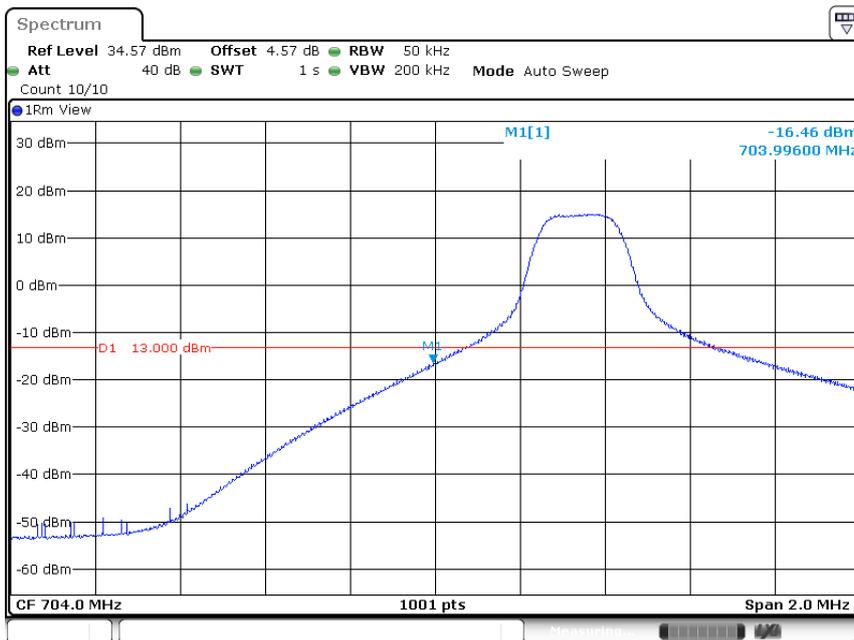
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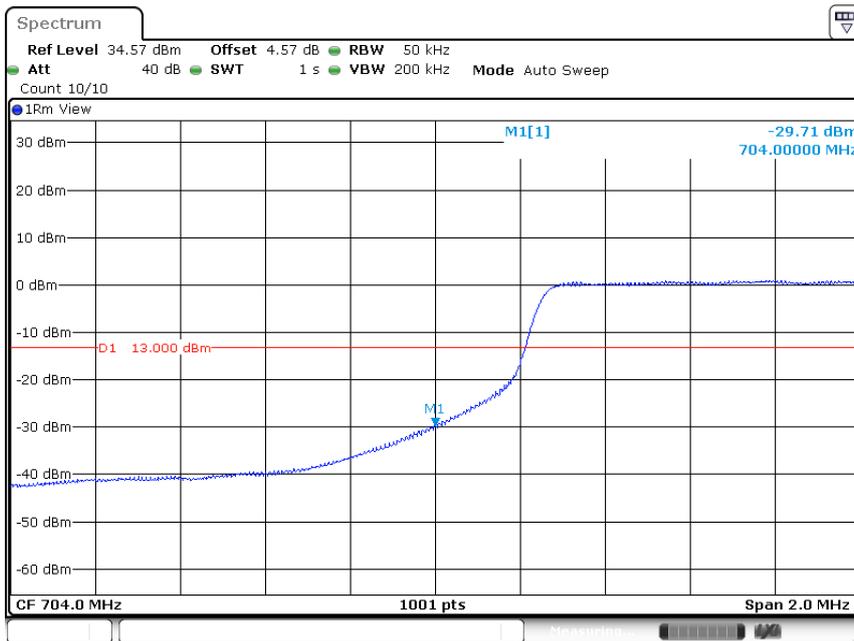
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**Band17-5MHz-64QAM-23755-1RB#0**



Date: 14 JUL 2020 08:39:55

**Band17-5MHz-64QAM-23755-25RB#0**



Date: 14 JUL 2020 08:40:15



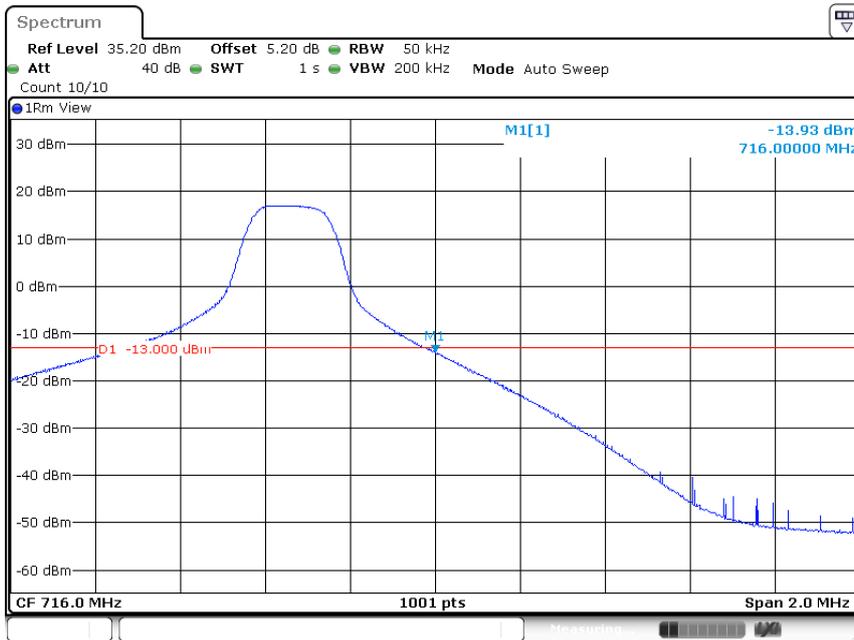
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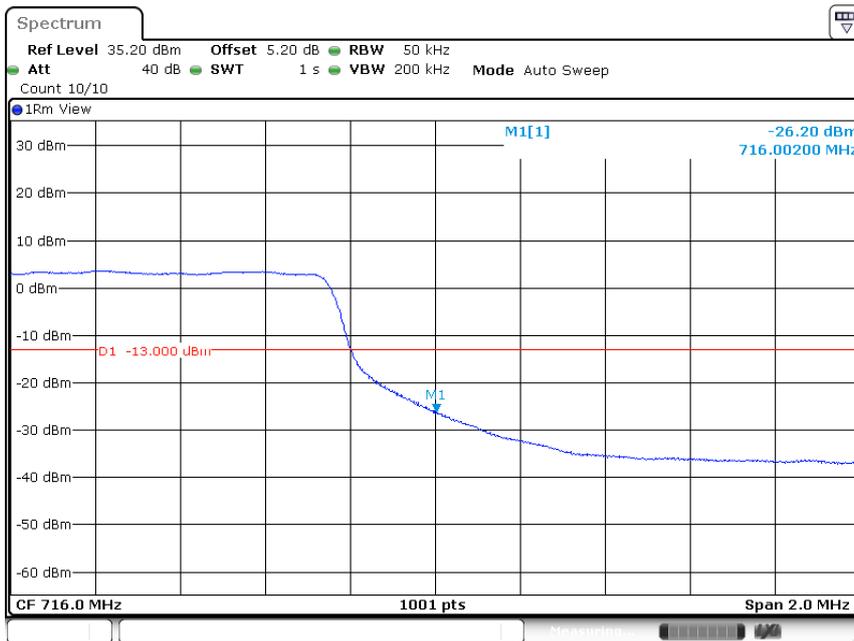


**Band17-5MHz-16QAM-23825-1RB#24**



Date: 10.JUL.2020 14:47:23

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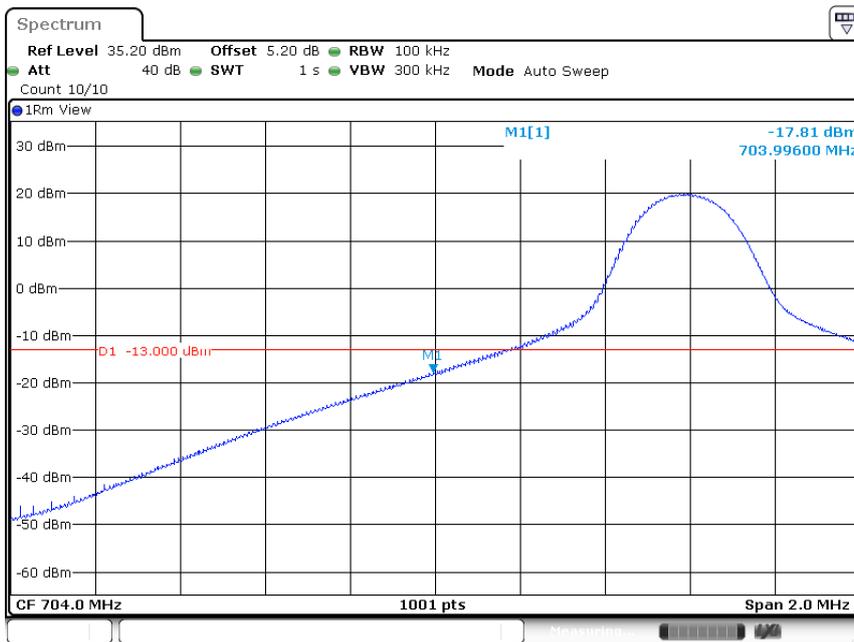


Date: 10.JUL.2020 14:48:05



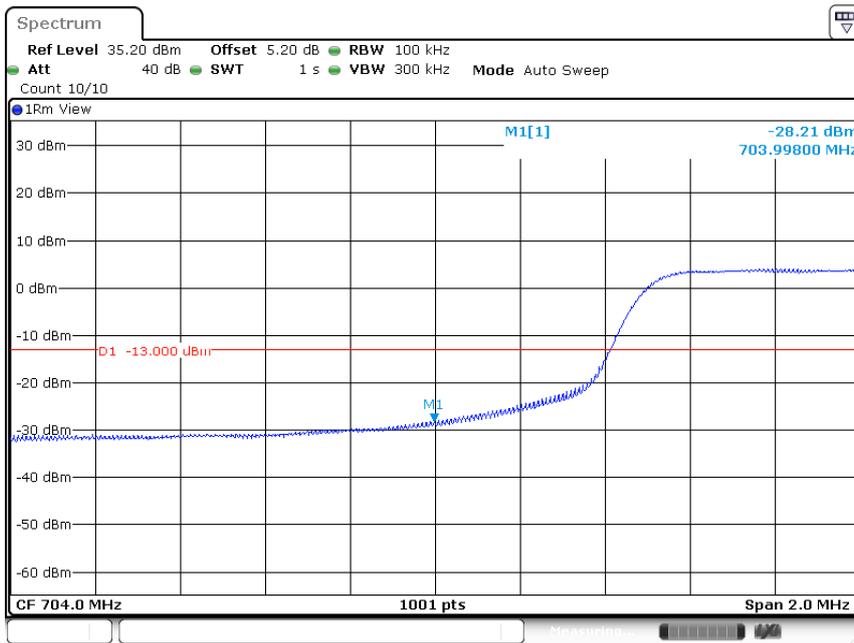
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**Band17-10MHz-QPSK-23780-1RB#0**



Date: 10.JUL.2020 14:48:30

**Band17-10MHz-QPSK-23780-50RB#0**



Date: 10.JUL.2020 14:49:11



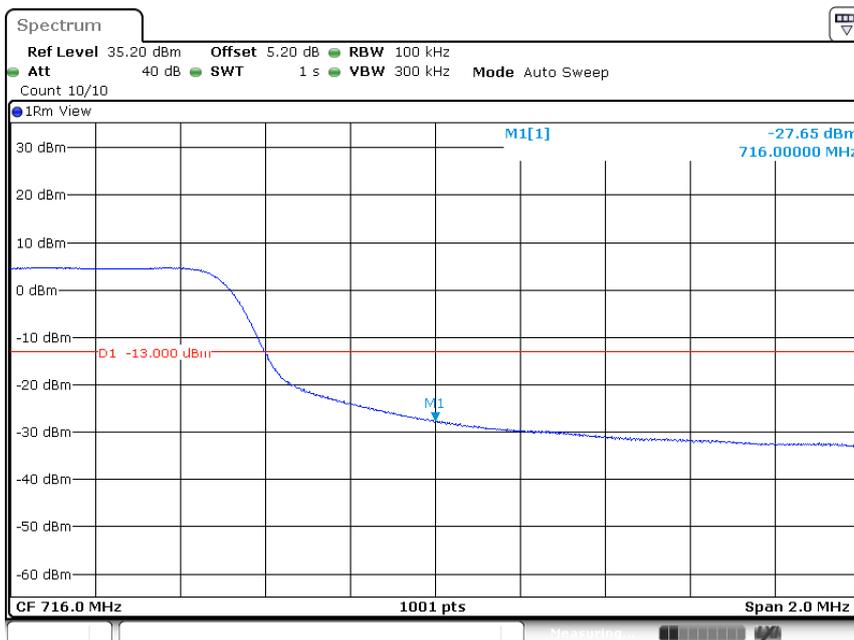
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**Band17-10MHz-QPSK-23800-1RB#49**



Date: 10.JUL.2020 14:49:56

**Band17-10MHz-QPSK-23800-50RB#0**



Date: 10.JUL.2020 14:50:37



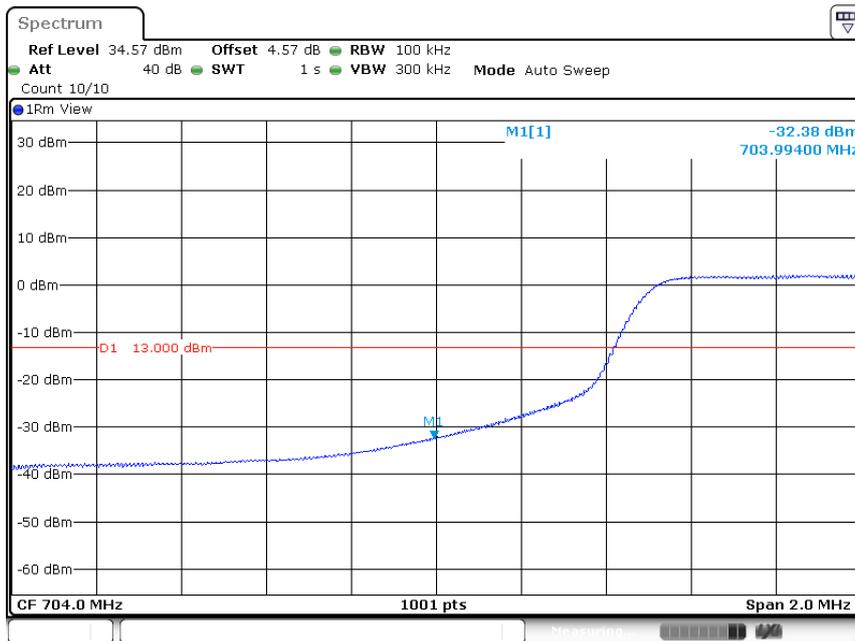
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**Band17-10MHz-64QAM-23780-1RB#0**



Date: 14.JUL.2020 08:41:26

**Band17-10MHz-64QAM-23780-50RB#0**

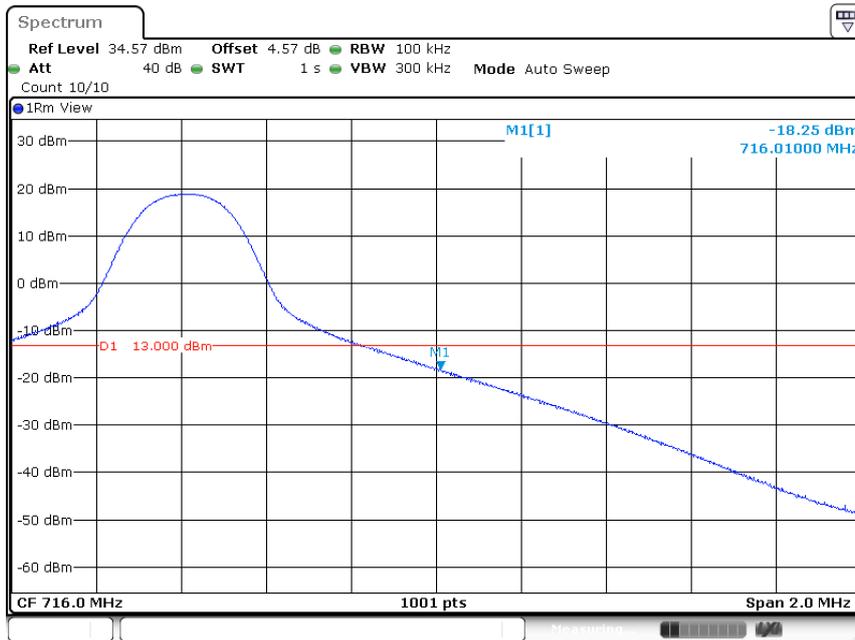


Date: 14.JUL.2020 08:41:47



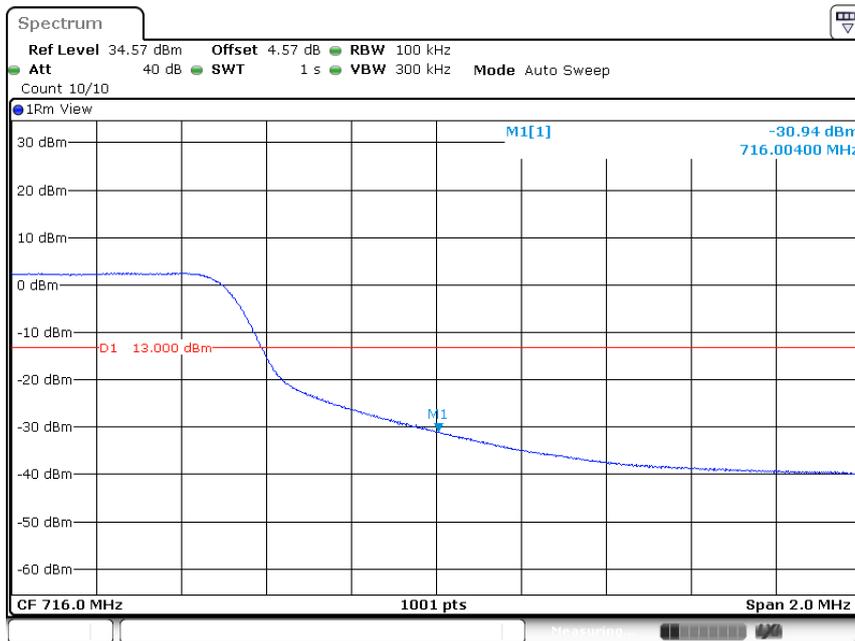
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**Band17-10MHz-64QAM-23800-1RB#49**



Date: 14.JUL.2020 08:42:12

**Band17-10MHz-64QAM-23800-50RB#0**



Date: 14.JUL.2020 08:42:32



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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.

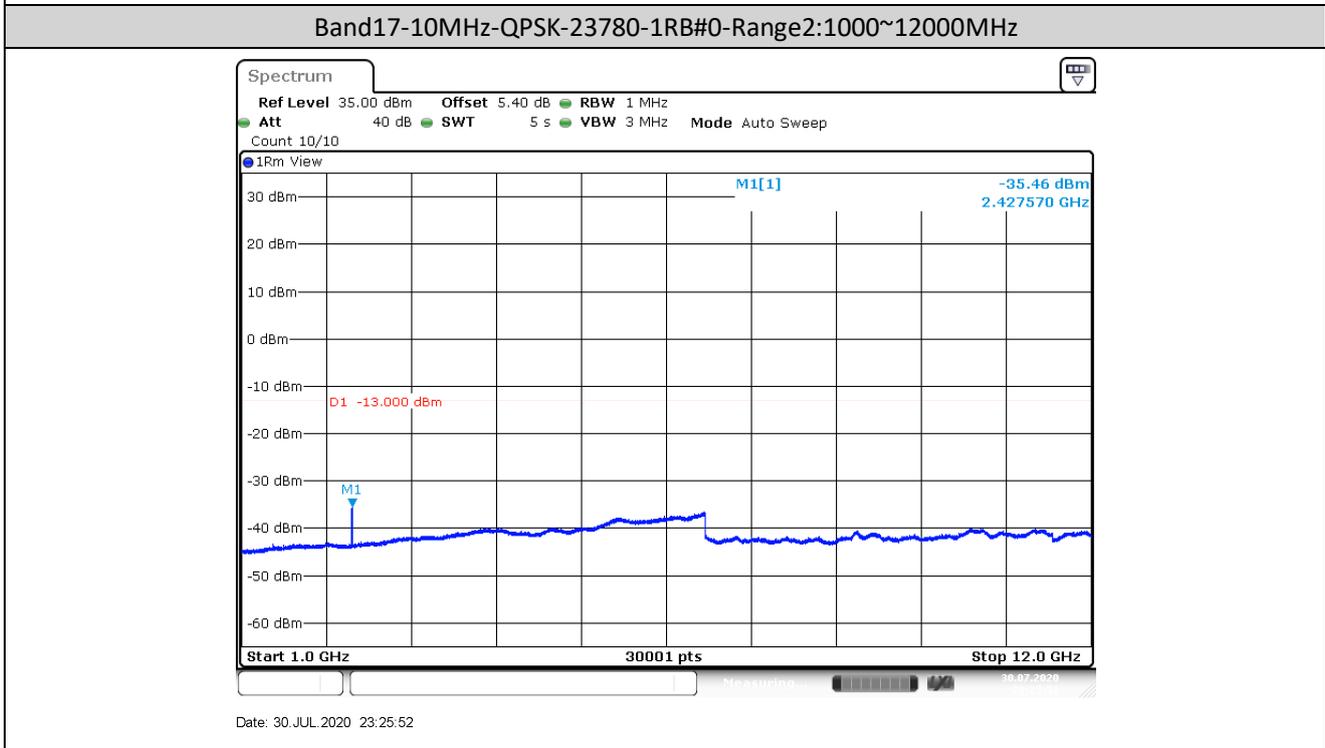
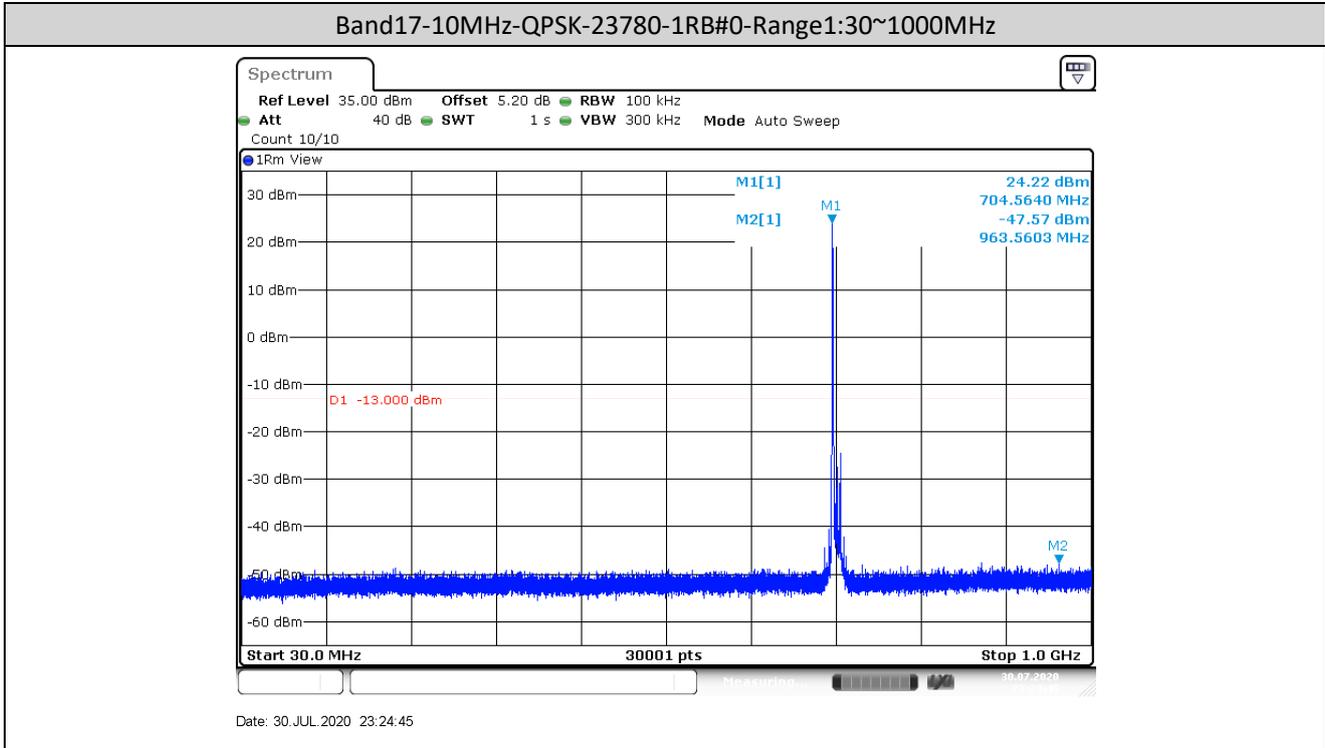
Remark2: only the worst case data displayed in this report.



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### 6.1. Test Plots



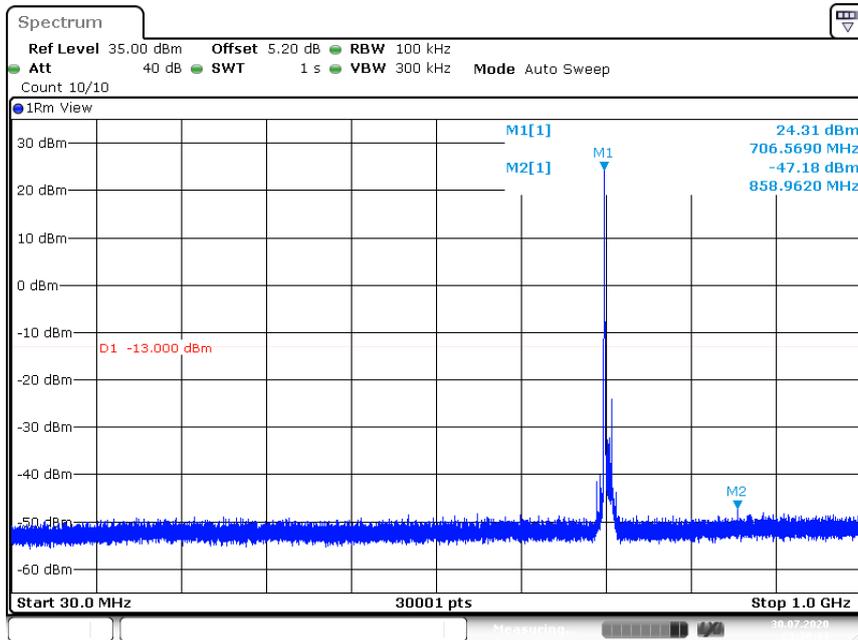
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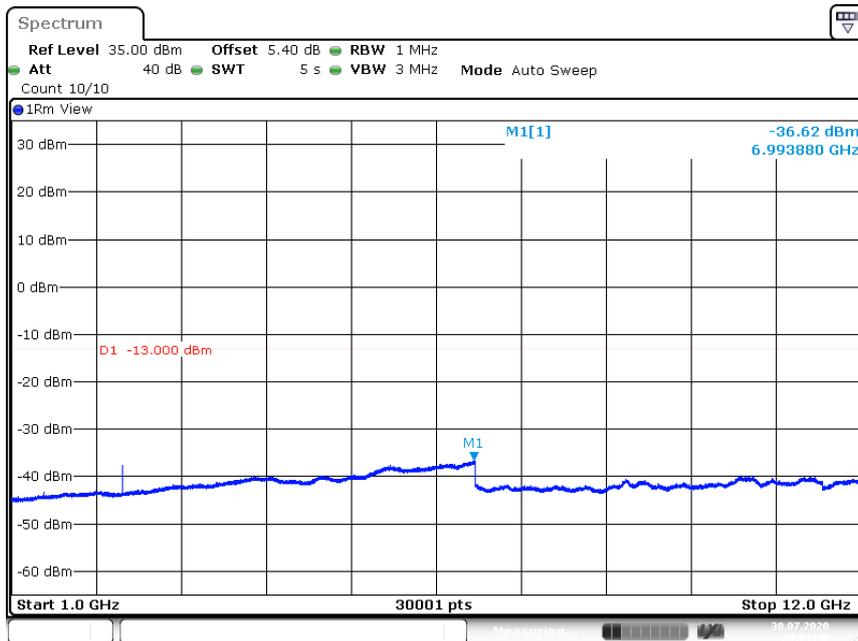
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**Band17-10MHz-QPSK-23800-1RB#0-Range1:30~100MHz**



**Band17-10MHz-QPSK-23800-1RB#0-Range2:100~12000MHz**



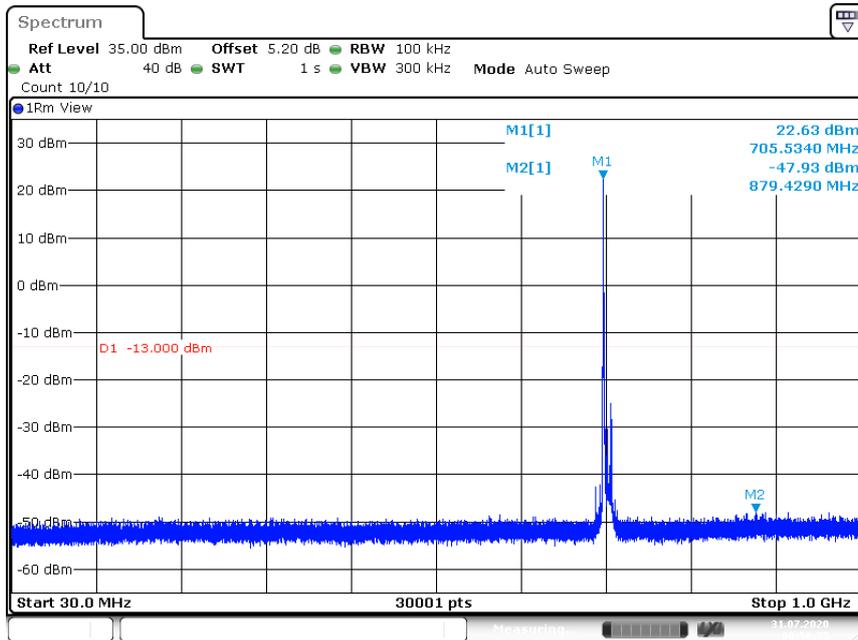
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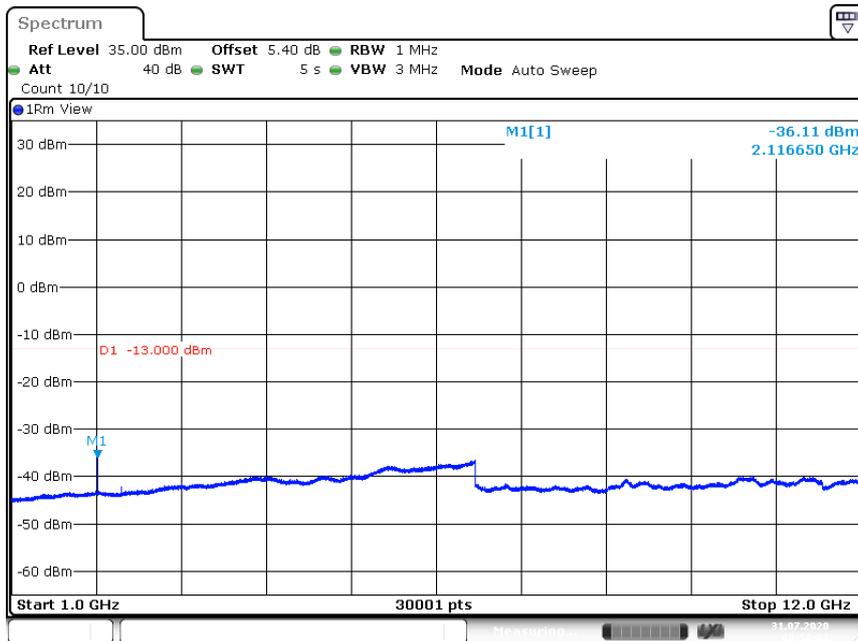
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**Band17-10MHz-64QAM-23790-1RB#0-Range1:30~1000MHz**



**Band17-10MHz-64QAM-23790-1RB#0-Range2:1000~12000MHz**

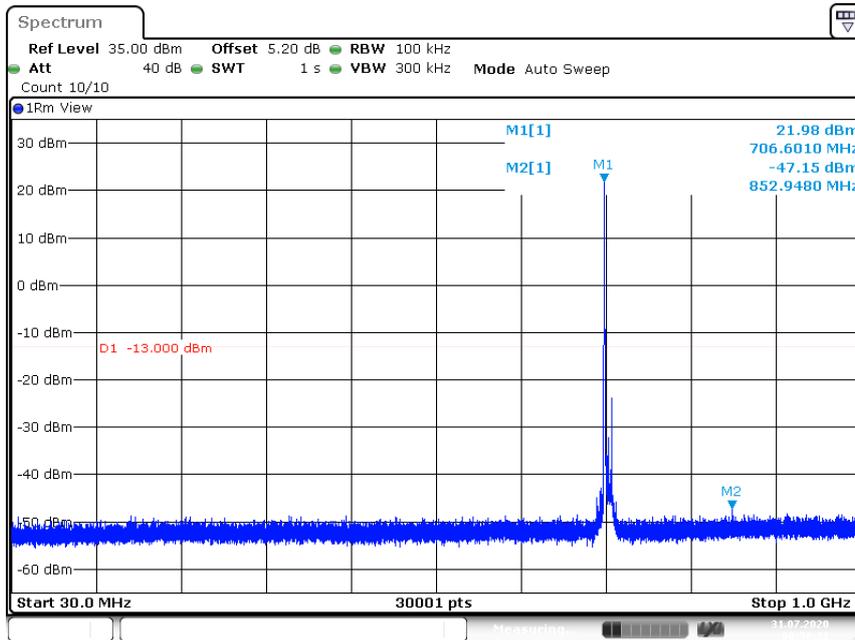


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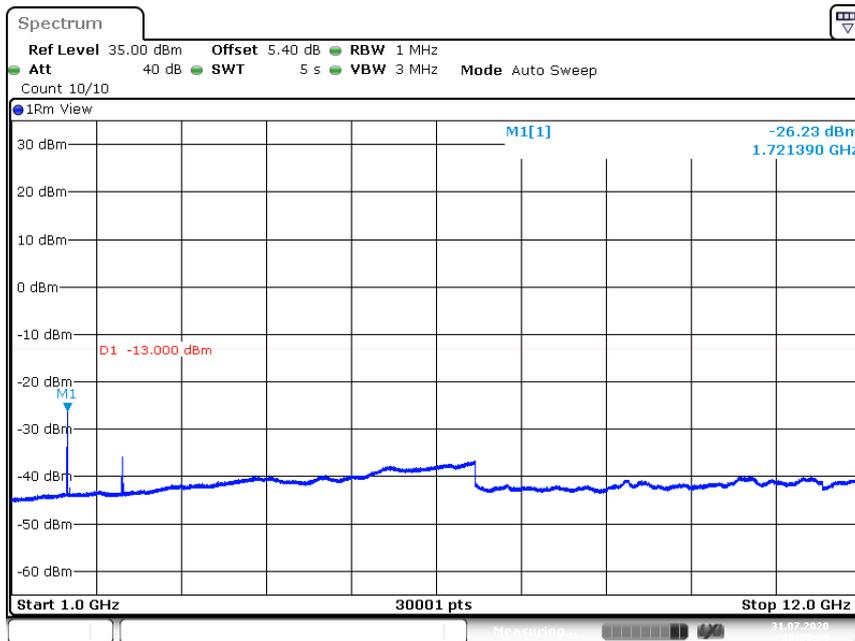
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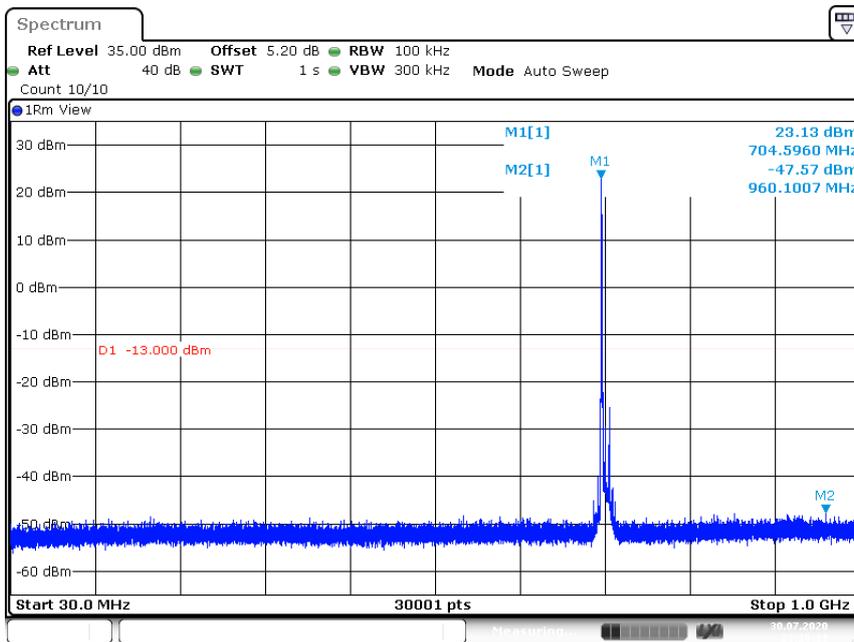


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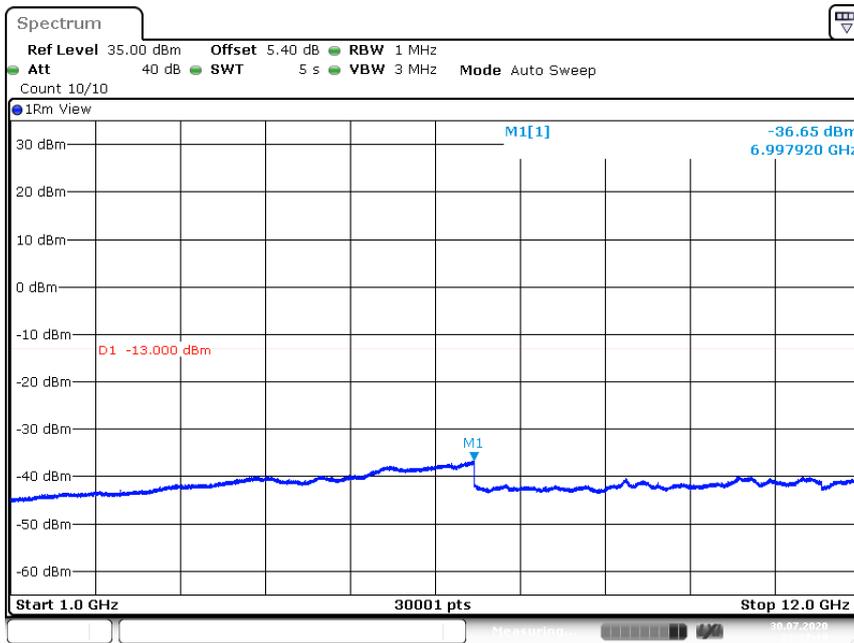


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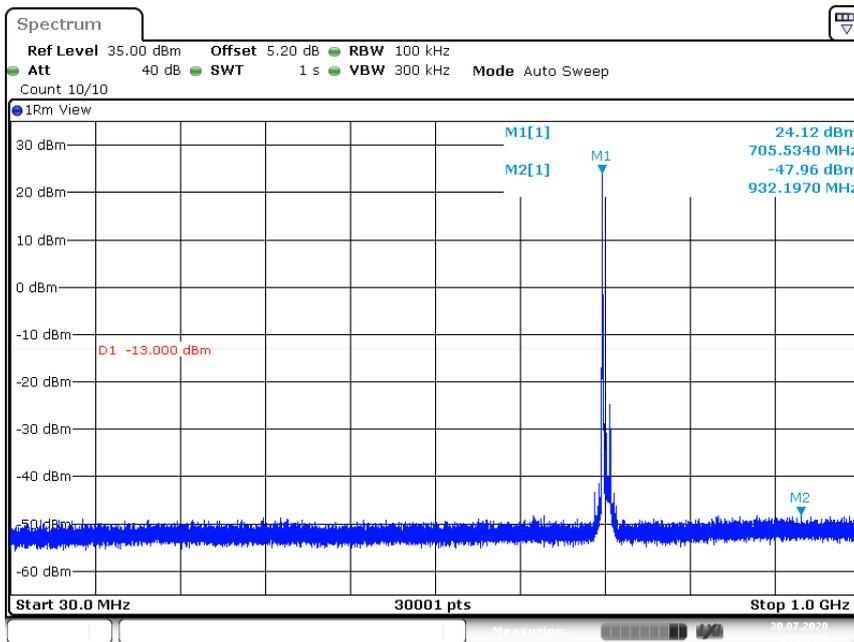


**Band17-10MHz-16QAM-23780-1RB#0-Range2:1000~12000MHz**

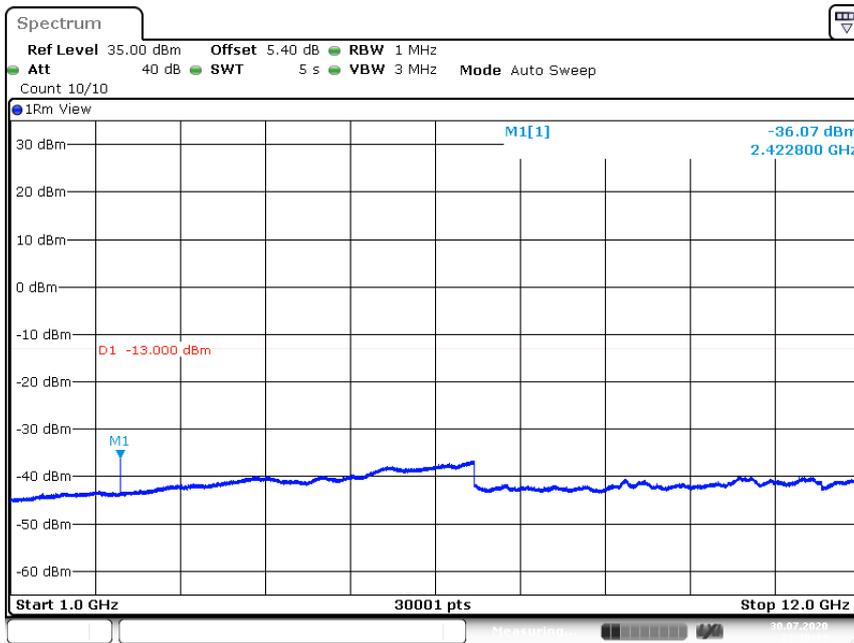


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**Band17-10MHz-16QAM-23790-1RB#0-Range1:30~1000MHz**



**Band17-10MHz-16QAM-23790-1RB#0-Range2:1000~12000MHz**

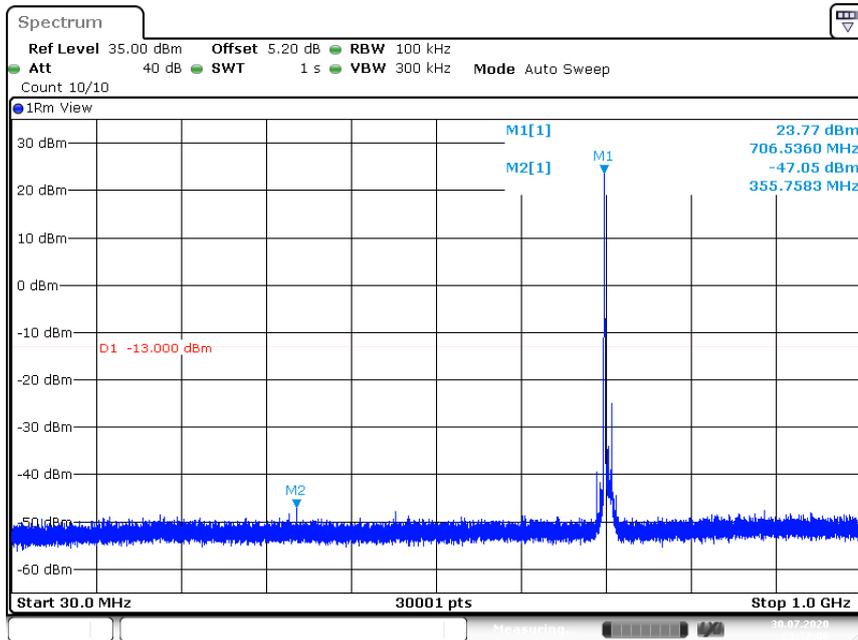


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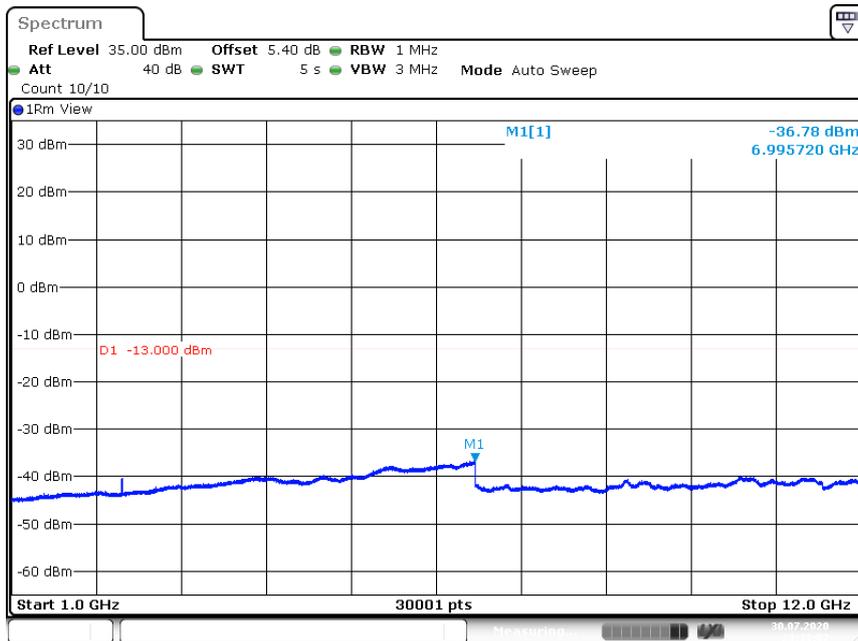
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**Band17-10MHz-16QAM-23800-1RB#0-Range1:30~1000MHz**



**Band17-10MHz-16QAM-23800-1RB#0-Range2:1000~12000MHz**



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## 7. Field Strength of Spurious Radiation

### 7.1. Test Mode =LTE/TM1 10MHz

#### 7.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
116.2373	-65.47	-13.00	52.47	187	31	Vertical
537.2869	-67.25	-13.00	54.25	165	244	Vertical
1408.8818	-57.68	-13.00	44.68	194	266	Vertical
2954.7910	-57.09	-13.00	44.09	175	96	Vertical
14498.2599	-47.61	-13.00	34.61	162	4	Vertical
17998.8000	-40.27	-13.00	27.27	198	350	Vertical
41.5921	-64.68	-13.00	51.68	217	137	Horizontal
243.3137	-68.69	-13.00	55.69	258	4	Horizontal
565.0788	-65.41	-13.00	52.41	263	297	Horizontal
1409.2819	-54.07	-13.00	41.07	248	351	Horizontal
7346.5739	-56.30	-13.00	43.30	257	110	Horizontal
16388.3355	-44.09	-13.00	31.09	259	57	Horizontal

#### 7.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
54.2512	-71.90	-13.00	58.90	241	353	Vertical
110.5625	-64.63	-13.00	51.63	259	353	Vertical
387.1234	-68.62	-13.00	55.62	271	219	Vertical
3000.0000	-56.67	-13.00	43.67	259	196	Vertical
7364.5746	-56.11	-13.00	43.11	225	112	Vertical
17999.4000	-40.15	-13.00	27.15	263	272	Vertical
44.5992	-63.93	-13.00	50.93	187	191	Horizontal
235.7958	-69.03	-13.00	56.03	175	323	Horizontal
519.0500	-65.89	-13.00	52.89	169	350	Horizontal
1410.8822	-59.81	-13.00	46.81	184	281	Horizontal
7485.1794	-56.40	-13.00	43.40	175	244	Horizontal
16399.1360	-43.93	-13.00	30.93	162	138	Horizontal



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### 7.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
110.7080	-65.11	-13.00	52.11	194	356	Vertical
494.3622	-66.73	-13.00	53.73	251	224	Vertical
1412.8826	-59.28	-13.00	46.28	271	351	Vertical
2699.1398	-57.40	-13.00	44.40	256	127	Vertical
14476.6591	-47.79	-13.00	34.79	281	117	Vertical
17929.7972	-41.71	-13.00	28.71	241	117	Vertical
40.7190	-64.27	-13.00	51.27	241	138	Horizontal
467.1524	-66.65	-13.00	53.65	259	57	Horizontal
1412.8826	-52.95	-13.00	39.95	227	338	Horizontal
2700.7401	-56.11	-13.00	43.11	263	118	Horizontal
9348.8540	-52.68	-13.00	39.68	284	270	Horizontal
16402.1361	-43.79	-13.00	30.79	259	191	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
Band17	10MHz	QPSK	23780	50RB#0	VL	NT	-6.20	-0.008745	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	VN	NT	-4.70	-0.006629	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	VH	NT	-7.80	-0.011001	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	VL	NT	-4.80	-0.006761	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	VN	NT	-6.50	-0.009155	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	VH	NT	-11.30	-0.015915	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	VL	NT	-5.50	-0.007736	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	VN	NT	-6.60	-0.009283	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	VH	NT	-8.10	-0.011392	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	VL	NT	-4.50	-0.006347	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	VN	NT	-6.00	-0.008463	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	VH	NT	-0.60	-0.000846	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	VL	NT	-9.60	-0.013521	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	VN	NT	-8.50	-0.011972	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	VH	NT	-11.90	-0.016761	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	VL	NT	-2.50	-0.003516	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	VN	NT	-2.50	-0.003516	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	VH	NT	-3.20	-0.004501	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	VL	NT	-6.50	-0.009168	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	VN	NT	-9.50	-0.013399	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	VH	NT	-5.50	-0.007757	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	VL	NT	-6.40	-0.009014	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	VN	NT	-4.60	-0.006479	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	VH	NT	-8.50	-0.011972	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	VL	NT	-4.70	-0.006610	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	VN	NT	-9.20	-0.012940	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	VH	NT	-5.80	-0.008158	±2.5	PASS



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## 8.2. Frequency Vs Temperature

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band17	10MHz	QPSK	23780	50RB#0	NV	-30	-2.10	-0.002962	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	-20	-6.00	-0.008463	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	-10	-4.16	-0.005867	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	0	-5.60	-0.007898	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	10	-1.60	-0.002257	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	20	-10.70	-0.015092	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	30	-10.10	-0.014245	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	40	-10.30	-0.014528	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	50	-7.50	-0.010578	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-30	-3.50	-0.004930	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-20	-5.20	-0.007324	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-10	-7.35	-0.010352	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	0	-8.90	-0.012535	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	10	-9.40	-0.013239	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	20	-5.30	-0.007465	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	30	-8.10	-0.011408	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	40	-9.30	-0.013099	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	50	-7.60	-0.010704	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	-30	-9.60	-0.013502	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	-20	-4.90	-0.006892	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	-10	-3.43	-0.004824	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	0	-1.90	-0.002672	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	10	-6.90	-0.009705	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	20	-7.60	-0.010689	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	30	-5.00	-0.007032	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	40	-3.20	-0.004501	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	50	-11.10	-0.015612	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	-30	-9.30	-0.013117	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	-20	-4.80	-0.006770	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	-10	-5.88	-0.008293	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	0	-4.70	-0.006629	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	10	-4.40	-0.006206	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	20	-10.70	-0.015092	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	30	-12.70	-0.017913	±2.5	PASS



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Band17	10MHz	64QAM	23780	50RB#0	NV	40	-11.90	-0.016784	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	50	-4.00	-0.005642	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	-30	-9.30	-0.013099	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	-20	-4.30	-0.006056	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	-10	-6.41	-0.009028	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	0	-8.70	-0.012254	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	10	-9.30	-0.013099	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	20	-5.10	-0.007183	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	30	-3.30	-0.004648	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	40	-3.90	-0.005493	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	50	-2.70	-0.003803	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	-30	-7.70	-0.010830	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	-20	-7.80	-0.010970	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	-10	-9.54	-0.013418	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	0	-7.80	-0.010970	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	10	-9.10	-0.012799	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	20	-9.40	-0.013221	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	30	-8.20	-0.011533	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	40	-9.10	-0.012799	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	50	-8.80	-0.012377	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	-30	-2.20	-0.003103	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	-20	-3.30	-0.004654	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	-10	-4.71	-0.006643	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	0	-2.10	-0.002962	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	10	-7.70	-0.010860	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	20	-0.50	-0.000705	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	30	-6.10	-0.008604	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	40	-4.30	-0.006065	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	50	-4.80	-0.006770	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	-30	-7.20	-0.010141	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	-20	-5.80	-0.008169	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	-10	-7.27	-0.010239	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	0	-8.50	-0.011972	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	10	-8.30	-0.011690	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	20	-1.30	-0.001831	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	30	-7.80	-0.010986	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	40	-5.00	-0.007042	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	50	-5.90	-0.008310	±2.5	PASS



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Band17	10MHz	16QAM	23800	50RB#0	NV	-30	-5.10	-0.007173	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	-20	-6.50	-0.009142	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	-10	-7.16	-0.010070	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	0	-3.20	-0.004501	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	10	-8.30	-0.011674	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	20	-9.20	-0.012940	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	30	-2.50	-0.003516	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	40	-8.80	-0.012377	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	50	-6.30	-0.008861	±2.5	PASS



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