



# Appendix B

## E-UTRA Band 17



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## 1 Effective (Isotropic) Radiated Power

### 1.1. Test Result

Band	Bandwidth h	Modulation	Channel	RB Configuration	Conducted Power(dBm)	ERP (dBm)	limit (dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#24	23.07	23.92	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#12	23.28	24.13	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#0	23.00	23.85	34.77	PASS
Band17	5MHz	QPSK	23755	12RB#13	22.34	23.19	34.77	PASS
Band17	5MHz	QPSK	23755	12RB#6	22.43	23.28	34.77	PASS
Band17	5MHz	QPSK	23755	12RB#0	22.32	23.17	34.77	PASS
Band17	5MHz	QPSK	23755	25RB#0	22.39	23.24	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#0	23.04	23.89	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#24	23.07	23.92	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#12	23.31	24.16	34.77	PASS
Band17	5MHz	QPSK	23790	12RB#13	22.32	23.17	34.77	PASS
Band17	5MHz	QPSK	23790	12RB#6	22.46	23.31	34.77	PASS
Band17	5MHz	QPSK	23790	12RB#0	22.30	23.15	34.77	PASS
Band17	5MHz	QPSK	23790	25RB#0	22.33	23.18	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#24	22.98	23.83	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#12	23.27	24.12	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#0	23.02	23.87	34.77	PASS
Band17	5MHz	QPSK	23825	12RB#0	22.29	23.14	34.77	PASS
Band17	5MHz	QPSK	23825	12RB#13	22.30	23.15	34.77	PASS
Band17	5MHz	QPSK	23825	12RB#6	22.35	23.2	34.77	PASS
Band17	5MHz	QPSK	23825	25RB#0	22.27	23.12	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#24	21.31	22.16	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#12	21.46	22.31	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#0	21.22	22.07	34.77	PASS
Band17	5MHz	64QAM	23755	12RB#0	20.37	21.22	34.77	PASS
Band17	5MHz	64QAM	23755	12RB#13	20.44	21.29	34.77	PASS
Band17	5MHz	64QAM	23755	12RB#6	20.51	21.36	34.77	PASS



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Band17	5MHz	64QAM	23755	25RB#0	20.43	21.28	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#0	21.28	22.13	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#12	21.50	22.35	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#24	21.29	22.14	34.77	PASS
Band17	5MHz	64QAM	23790	12RB#0	20.38	21.23	34.77	PASS
Band17	5MHz	64QAM	23790	12RB#6	20.56	21.41	34.77	PASS
Band17	5MHz	64QAM	23790	12RB#13	20.37	21.22	34.77	PASS
Band17	5MHz	64QAM	23790	25RB#0	20.42	21.27	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#24	21.12	21.97	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#12	21.41	22.26	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#0	21.26	22.11	34.77	PASS
Band17	5MHz	64QAM	23825	12RB#0	20.33	21.18	34.77	PASS
Band17	5MHz	64QAM	23825	12RB#6	20.39	21.24	34.77	PASS
Band17	5MHz	64QAM	23825	12RB#13	20.32	21.17	34.77	PASS
Band17	5MHz	64QAM	23825	25RB#0	20.31	21.16	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#12	22.50	23.35	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#24	22.53	23.38	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#0	22.33	23.18	34.77	PASS
Band17	5MHz	16QAM	23755	12RB#13	21.42	22.27	34.77	PASS
Band17	5MHz	16QAM	23755	12RB#0	21.33	22.18	34.77	PASS
Band17	5MHz	16QAM	23755	12RB#6	21.48	22.33	34.77	PASS
Band17	5MHz	16QAM	23755	25RB#0	21.35	22.2	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#24	22.26	23.11	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#12	22.70	23.55	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#0	22.37	23.22	34.77	PASS
Band17	5MHz	16QAM	23790	12RB#13	21.38	22.23	34.77	PASS
Band17	5MHz	16QAM	23790	12RB#6	21.47	22.32	34.77	PASS
Band17	5MHz	16QAM	23790	12RB#0	21.34	22.19	34.77	PASS
Band17	5MHz	16QAM	23790	25RB#0	21.33	22.18	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#12	22.53	23.38	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#24	22.24	23.09	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#0	22.40	23.25	34.77	PASS
Band17	5MHz	16QAM	23825	12RB#0	21.30	22.15	34.77	PASS



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Band17	5MHz	16QAM	23825	12RB#6	21.40	22.25	34.77	PASS
Band17	5MHz	16QAM	23825	12RB#13	21.30	22.15	34.77	PASS
Band17	5MHz	16QAM	23825	25RB#0	21.32	22.17	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#49	22.42	23.27	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#0	22.71	23.56	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#24	23.10	23.95	34.77	PASS
Band17	10MHz	QPSK	23780	25RB#0	22.20	23.05	34.77	PASS
Band17	10MHz	QPSK	23780	25RB#12	22.30	23.15	34.77	PASS
Band17	10MHz	QPSK	23780	25RB#25	22.01	22.86	34.77	PASS
Band17	10MHz	QPSK	23780	50RB#0	22.11	22.96	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#0	22.70	23.55	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#49	22.38	23.23	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#24	23.28	24.13	34.77	PASS
Band17	10MHz	QPSK	23790	25RB#0	22.20	23.05	34.77	PASS
Band17	10MHz	QPSK	23790	25RB#12	22.35	23.2	34.77	PASS
Band17	10MHz	QPSK	23790	25RB#25	22.01	22.86	34.77	PASS
Band17	10MHz	QPSK	23790	50RB#0	22.11	22.96	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#24	23.16	24.01	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#0	22.74	23.59	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#49	22.39	23.24	34.77	PASS
Band17	10MHz	QPSK	23800	25RB#25	22.04	22.89	34.77	PASS
Band17	10MHz	QPSK	23800	25RB#0	22.19	23.04	34.77	PASS
Band17	10MHz	QPSK	23800	25RB#12	22.32	23.17	34.77	PASS
Band17	10MHz	QPSK	23800	50RB#0	22.12	22.97	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#49	20.63	21.48	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#24	21.37	22.22	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#0	20.77	21.62	34.77	PASS
Band17	10MHz	64QAM	23780	25RB#25	20.31	21.16	34.77	PASS
Band17	10MHz	64QAM	23780	25RB#12	20.35	21.2	34.77	PASS
Band17	10MHz	64QAM	23780	25RB#0	20.32	21.17	34.77	PASS
Band17	10MHz	64QAM	23780	50RB#0	20.45	21.3	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#24	22.96	23.81	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#49	22.88	23.73	34.77	PASS



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Band17	10MHz	64QAM	23790	1RB#0	20.91	21.76	34.77	PASS
Band17	10MHz	64QAM	23790	25RB#25	21.65	22.5	34.77	PASS
Band17	10MHz	64QAM	23790	25RB#12	21.91	22.76	34.77	PASS
Band17	10MHz	64QAM	23790	25RB#0	21.77	22.62	34.77	PASS
Band17	10MHz	64QAM	23790	50RB#0	21.67	22.52	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#49	22.84	23.69	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#0	23.06	23.91	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#24	22.87	23.72	34.77	PASS
Band17	10MHz	64QAM	23800	25RB#0	21.78	22.63	34.77	PASS
Band17	10MHz	64QAM	23800	25RB#12	21.89	22.74	34.77	PASS
Band17	10MHz	64QAM	23800	25RB#25	21.67	22.52	34.77	PASS
Band17	10MHz	64QAM	23800	50RB#0	21.74	22.59	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#24	22.50	23.35	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#49	21.71	22.56	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#0	21.87	22.72	34.77	PASS
Band17	10MHz	16QAM	23780	25RB#0	21.17	22.02	34.77	PASS
Band17	10MHz	16QAM	23780	25RB#12	21.34	22.19	34.77	PASS
Band17	10MHz	16QAM	23780	25RB#25	21.04	21.89	34.77	PASS
Band17	10MHz	16QAM	23780	50RB#0	21.09	21.94	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#24	22.46	23.31	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#0	21.91	22.76	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#49	21.63	22.48	34.77	PASS
Band17	10MHz	16QAM	23790	25RB#12	21.31	22.16	34.77	PASS
Band17	10MHz	16QAM	23790	25RB#0	21.14	21.99	34.77	PASS
Band17	10MHz	16QAM	23790	25RB#25	21.03	21.88	34.77	PASS
Band17	10MHz	16QAM	23790	50RB#0	21.12	21.97	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#49	21.64	22.49	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#24	22.58	23.43	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#0	21.81	22.66	34.77	PASS
Band17	10MHz	16QAM	23800	25RB#0	21.18	22.03	34.77	PASS
Band17	10MHz	16QAM	23800	25RB#12	21.33	22.18	34.77	PASS
Band17	10MHz	16QAM	23800	25RB#25	21.09	21.94	34.77	PASS
Band17	10MHz	16QAM	23800	50RB#0	21.10	21.95	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] = Conducted Power [dBm] + Gain [dBd]

EIRP [dBm] = Conducted Power [dBm] + 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
Band1 7	10MHz	QPSK	23780	50RB#0	4.35	13	PASS
Band1 7	10MHz	QPSK	23790	50RB#0	4.41	13	PASS
Band1 7	10MHz	QPSK	23800	50RB#0	4.64	13	PASS
Band1 7	10MHz	64QAM	23780	50RB#0	6.14	13	PASS
Band1 7	10MHz	64QAM	23790	50RB#0	6.09	13	PASS
Band1 7	10MHz	64QAM	23800	50RB#0	6.09	13	PASS
Band1 7	10MHz	16QAM	23780	50RB#0	5.51	13	PASS
Band1 7	10MHz	16QAM	23790	50RB#0	5.51	13	PASS
Band1 7	10MHz	16QAM	23800	50RB#0	5.54	13	PASS

### 2.2. Test Plots

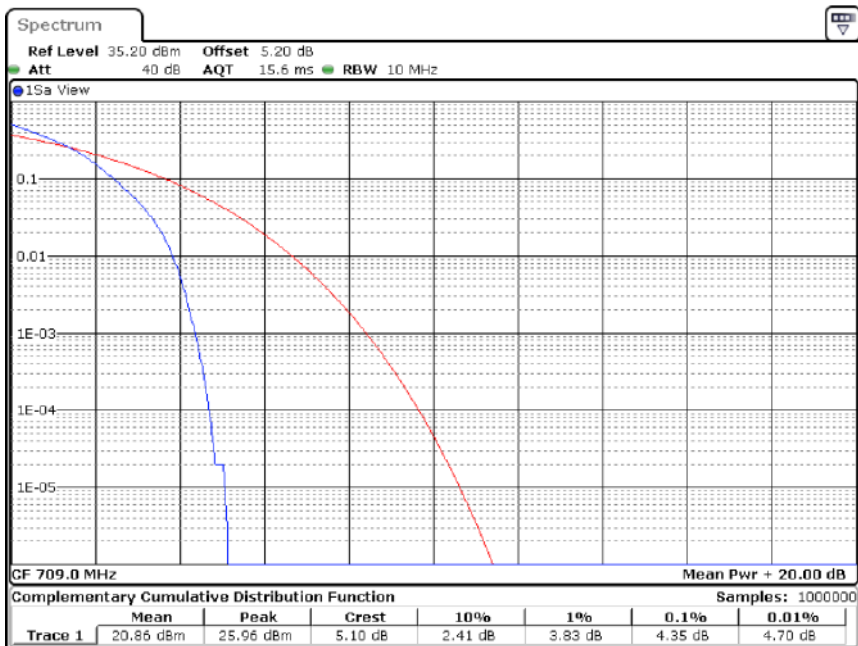
Band17-10MHz-QPSK-23780-50RB#0



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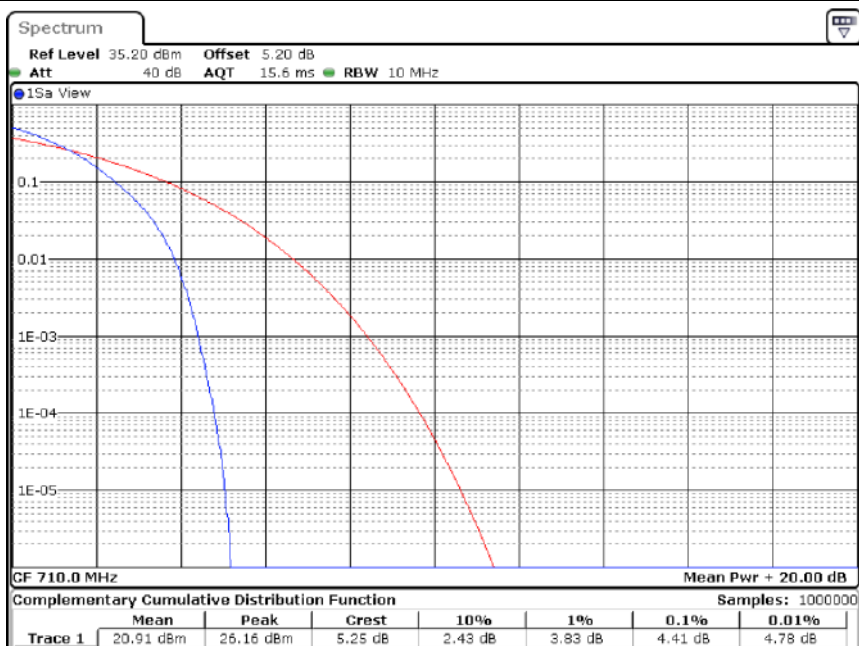
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn  
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Date: 16 JUL 2020 02:31:49

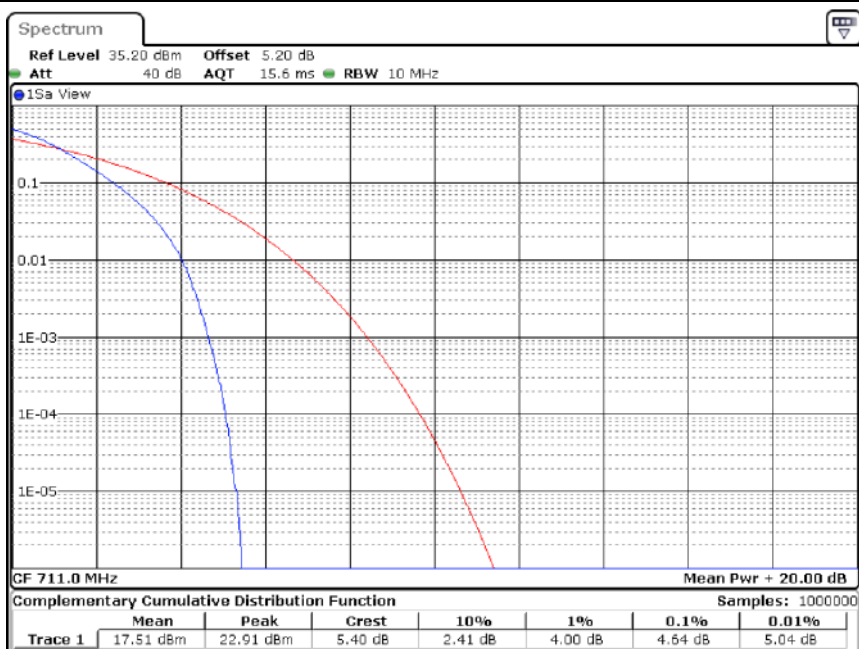


## Band17-10MHz-QPSK-23790-50RB#0



Date: 16 JUL 2020 02:32:11

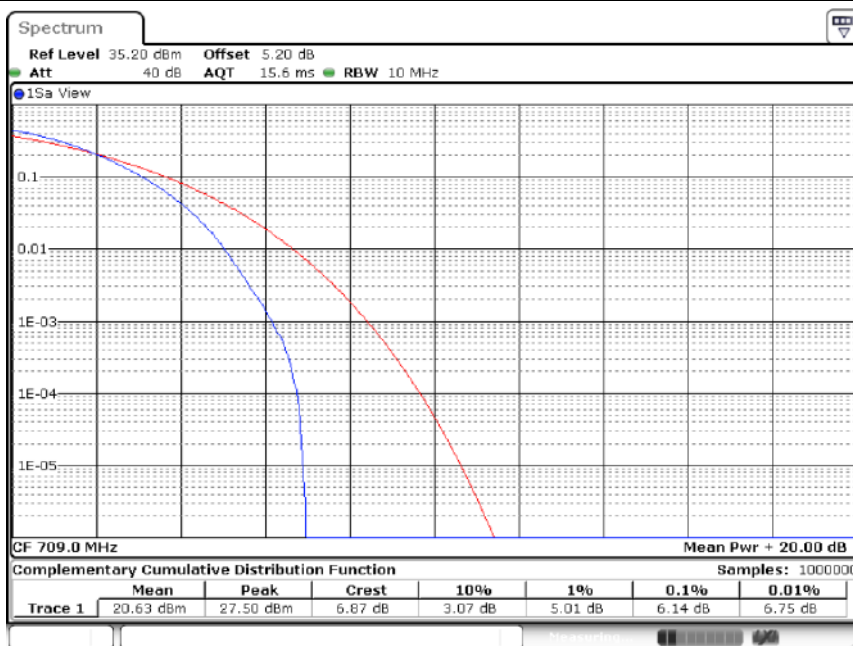
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Date: 16 JUL 2020 02:32:34

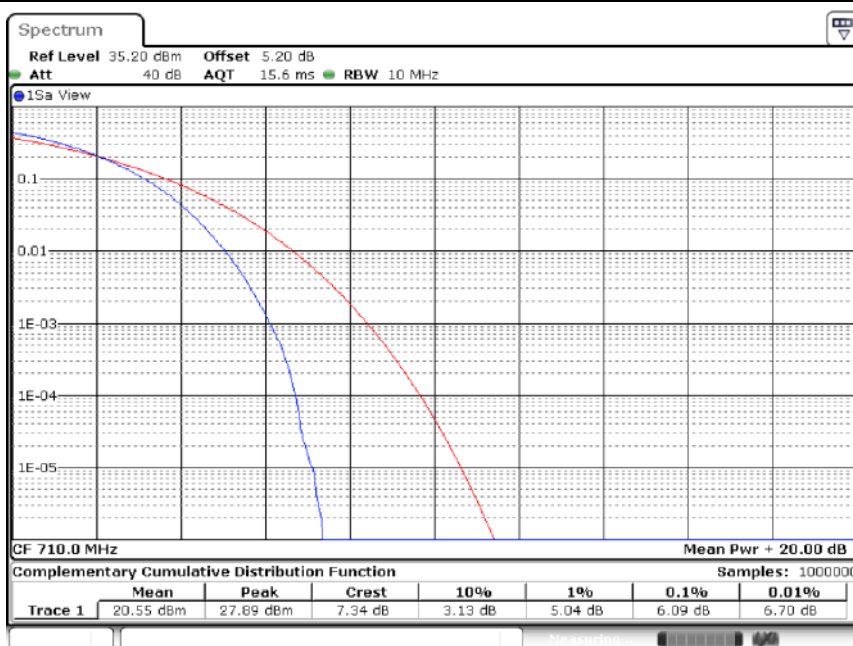


## Band17-10MHz-64QAM-23780-50RB#0



Date: 11 AUG 2020 09:05:25

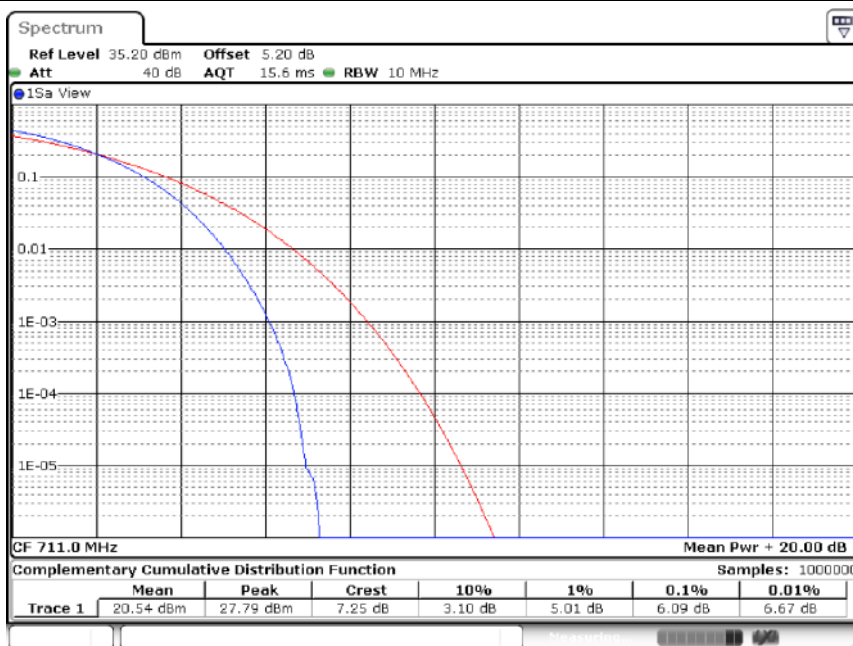
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Date: 11 AUG 2020 09:05:37

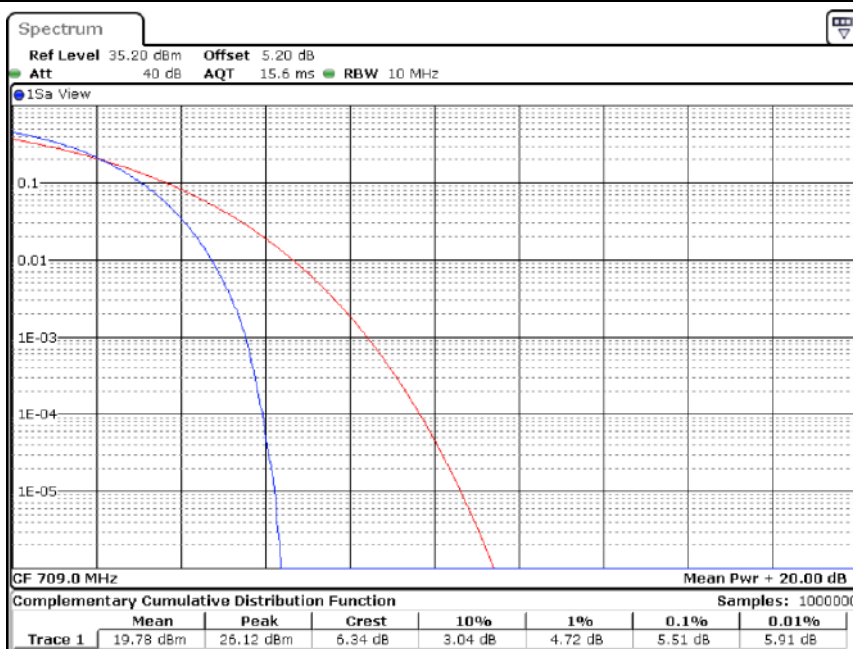


## Band17-10MHz-64QAM-23800-50RB#0



Date: 11 AUG 2020 09:05:49

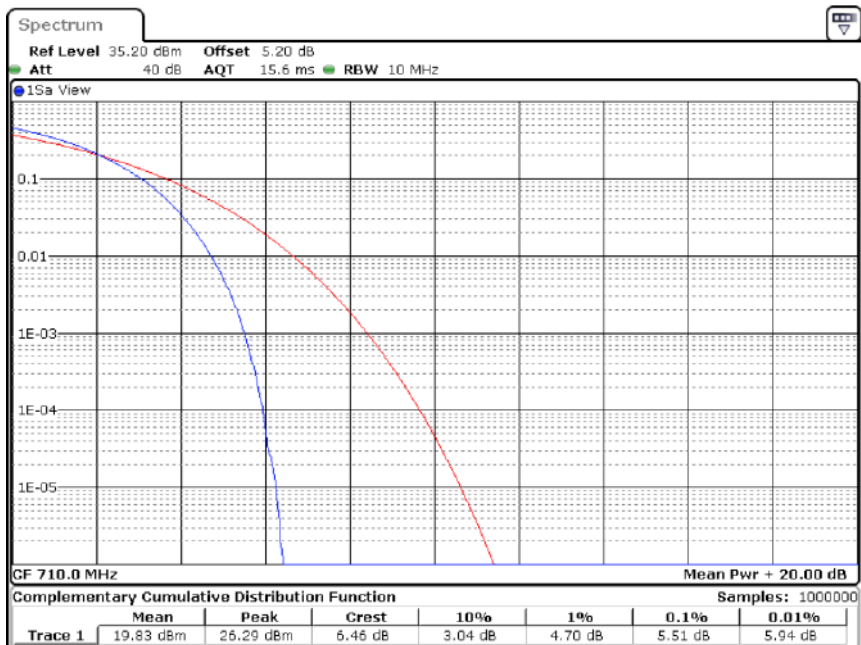
## Band17-10MHz-16QAM-23780-50RB#0



Date: 16 JUL 2020 02:32:00

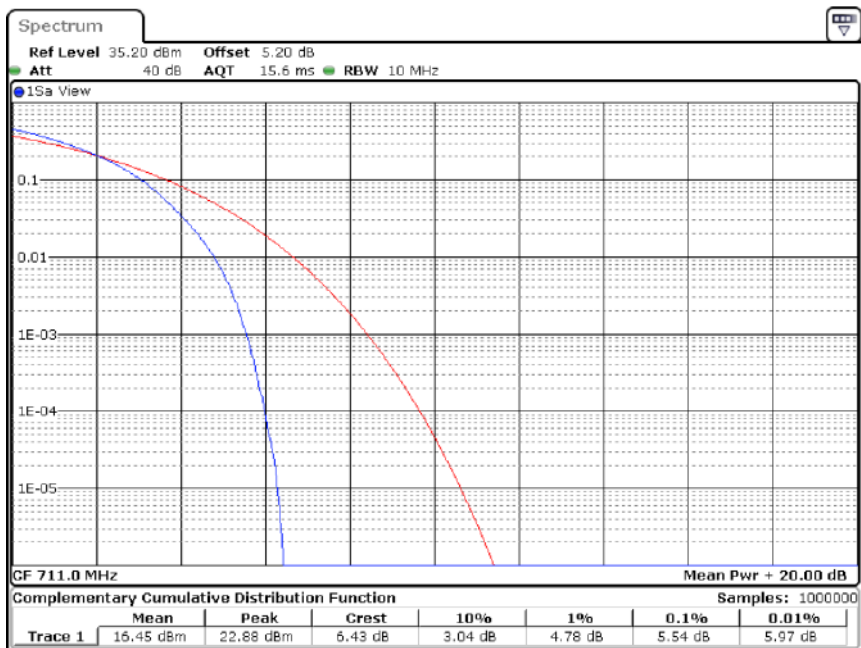


**Band17-10MHz-16QAM-23790-50RB#0**



Date: 16 JUL 2020 02:32:23

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



Date: 16 JUL 2020 02:32:45



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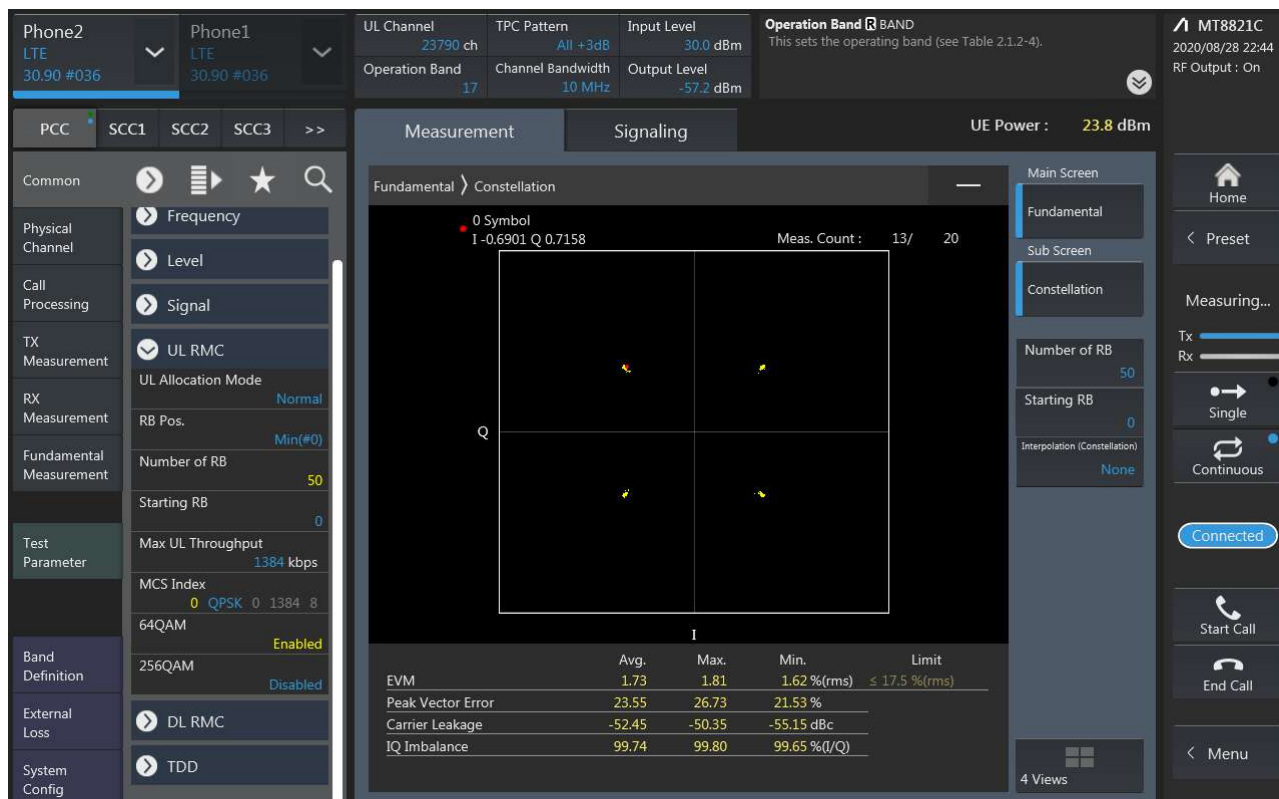
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### 3. Modulation Characteristics

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

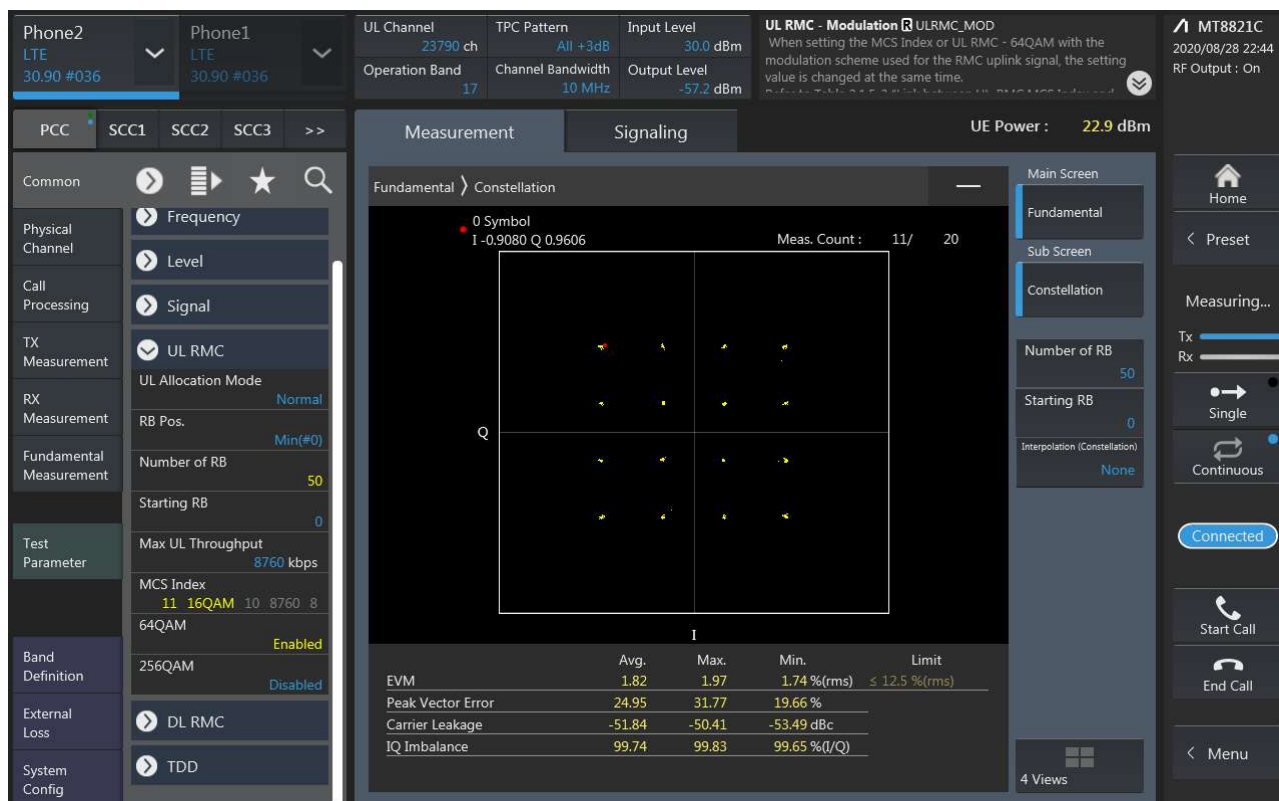
##### 3.1.1. Test Channel = MCH





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

### 3.2.1. Test Channel = MCH



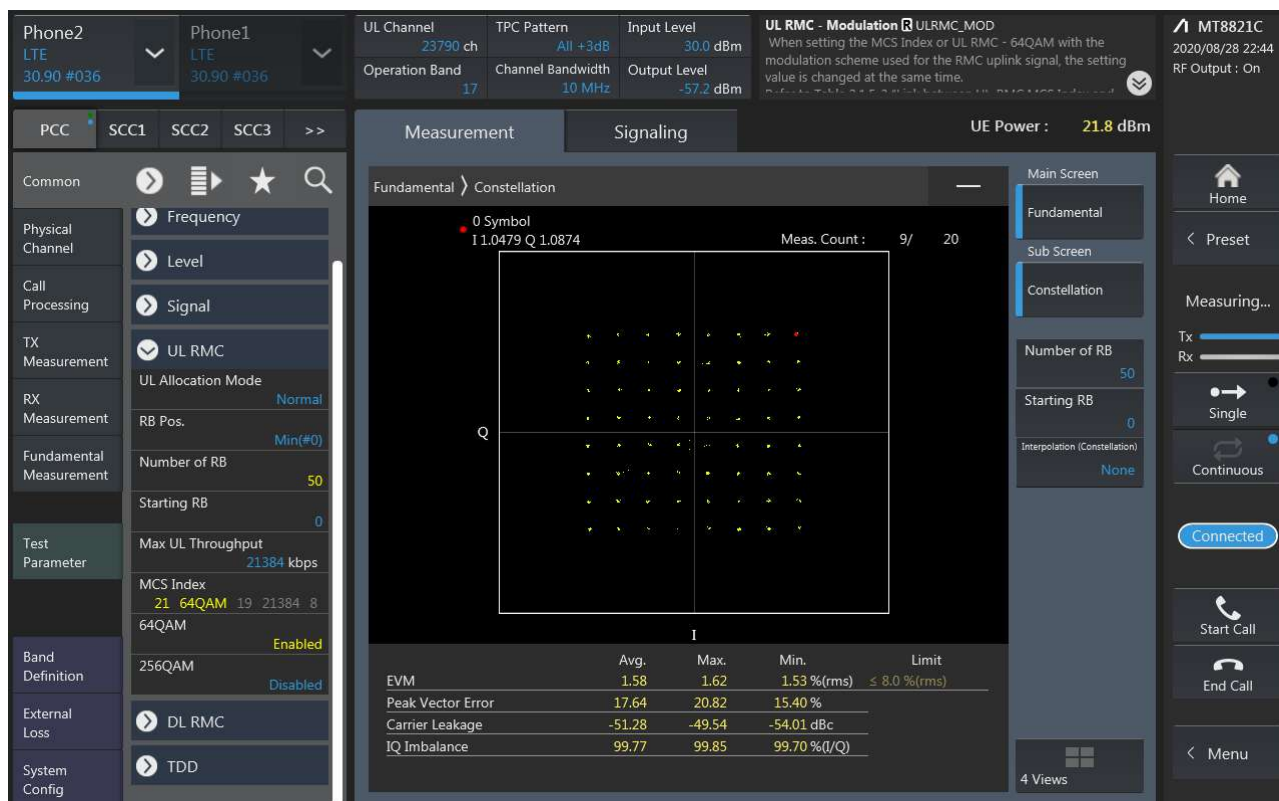
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### 3.3. Test Mode = LTE /TM3 10MHz

#### 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
Band1 7	5MHz	QPSK	23755	25RB#0	4.466	4.870	PASS
Band1 7	5MHz	QPSK	23790	25RB#0	4.456	4.850	PASS
Band1 7	5MHz	QPSK	23825	25RB#0	4.476	4.910	PASS
Band1 7	5MHz	64QAM	23755	25RB#0	4.476	4.880	PASS
Band1 7	5MHz	64QAM	23790	25RB#0	4.466	4.860	PASS
Band1 7	5MHz	64QAM	23825	25RB#0	4.466	4.890	PASS
Band1 7	5MHz	16QAM	23755	25RB#0	4.476	4.900	PASS
Band1 7	5MHz	16QAM	23790	25RB#0	4.476	4.900	PASS
Band1 7	5MHz	16QAM	23825	25RB#0	4.496	4.930	PASS
Band1 7	10MHz	QPSK	23780	50RB#0	8.911	9.580	PASS
Band1 7	10MHz	QPSK	23790	50RB#0	8.891	9.600	PASS
Band1 7	10MHz	QPSK	23800	50RB#0	8.911	9.640	PASS
Band1 7	10MHz	64QAM	23780	50RB#0	8.911	9.580	PASS
Band1 7	10MHz	64QAM	23790	50RB#0	8.891	9.620	PASS
Band1 7	10MHz	64QAM	23800	50RB#0	8.911	9.560	PASS
Band1 7	10MHz	16QAM	23780	50RB#0	8.891	9.600	PASS



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7							
Band1 7	10MHz	16QAM	23790	50RB#0	8.911	9.660	PASS
Band1 7	10MHz	16QAM	23800	50RB#0	8.911	9.700	PASS

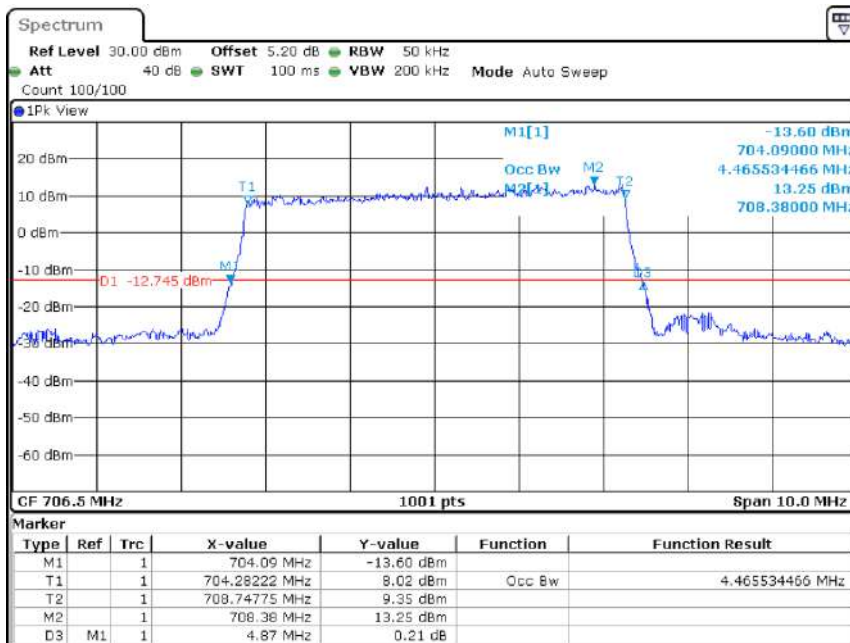


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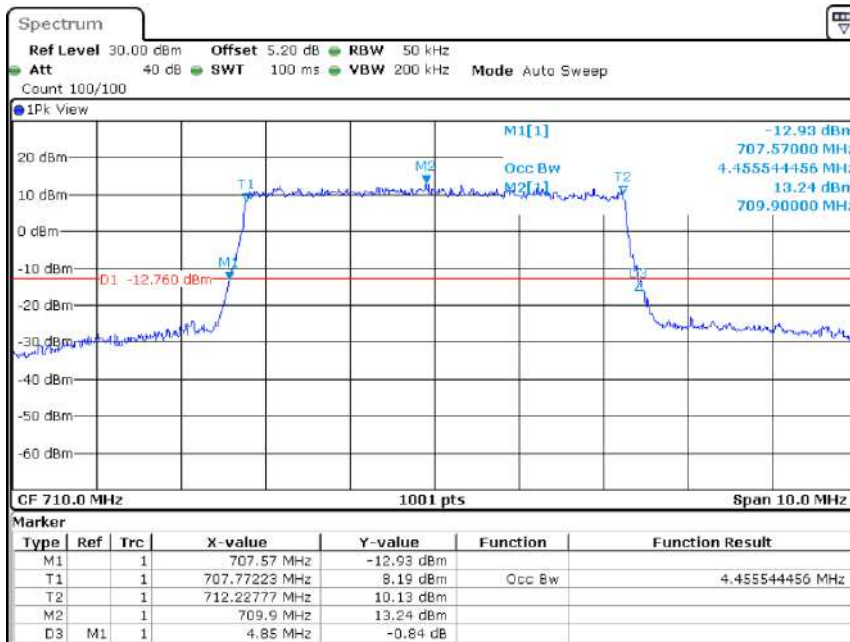
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## 4.2. Test Plots

Band17-5MHz-QPSK-23755-25RB#0-4.466

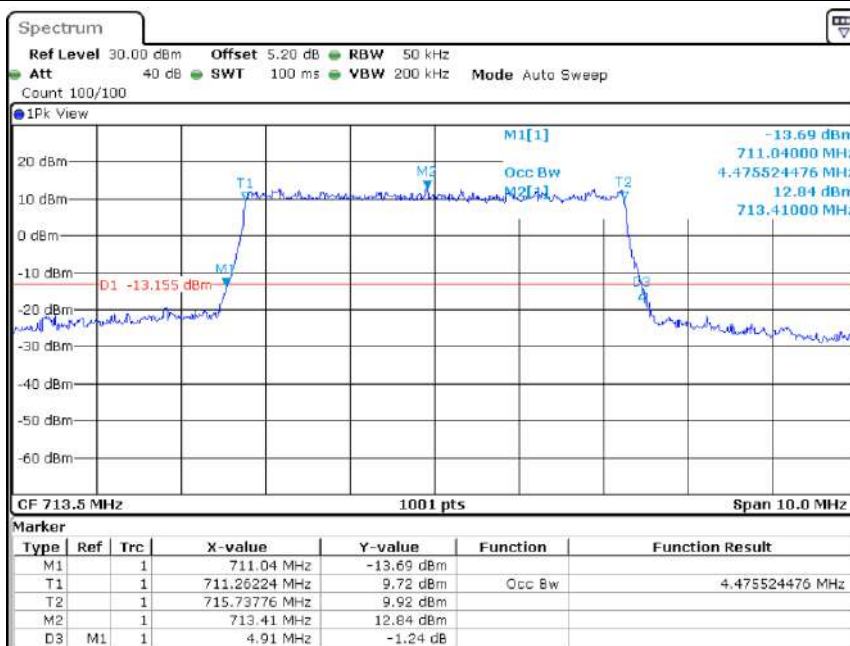


Band17-5MHz-QPSK-23790-25RB#0-4.456



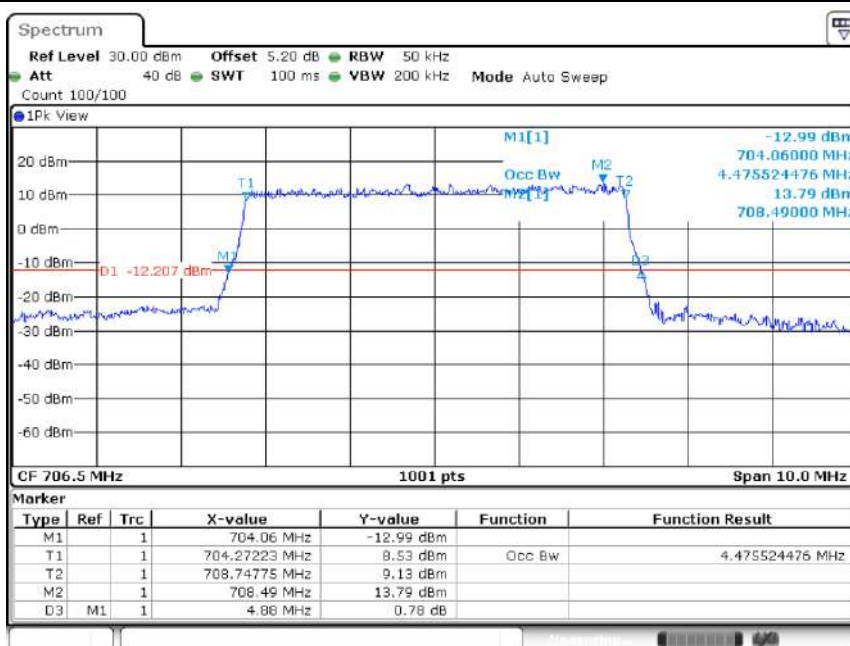
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## Band17-5MHz-QPSK-23825-25RB#0-4.476



Date: 18 JUL 2020 02:16:15

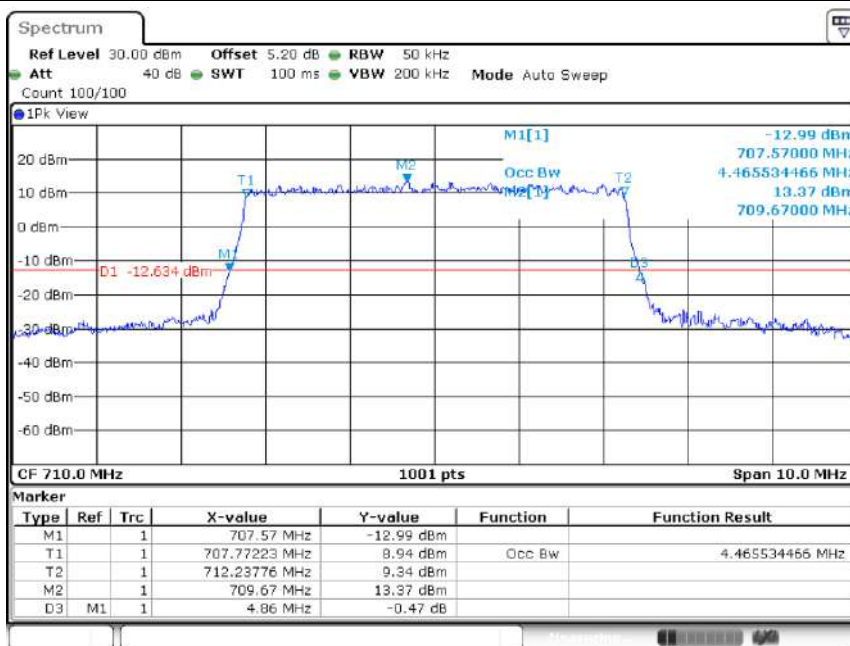
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Date: 11 AUG 2020 08:56:03

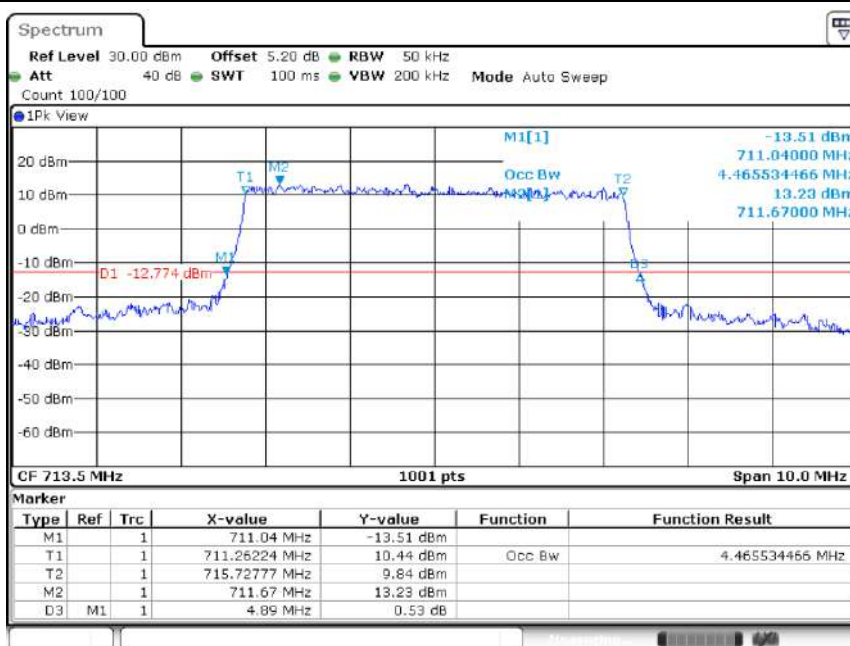


## Band17-5MHz-64QAM-23790-25RB#0-4.466



Date: 11 AUG 2020 08:56:23

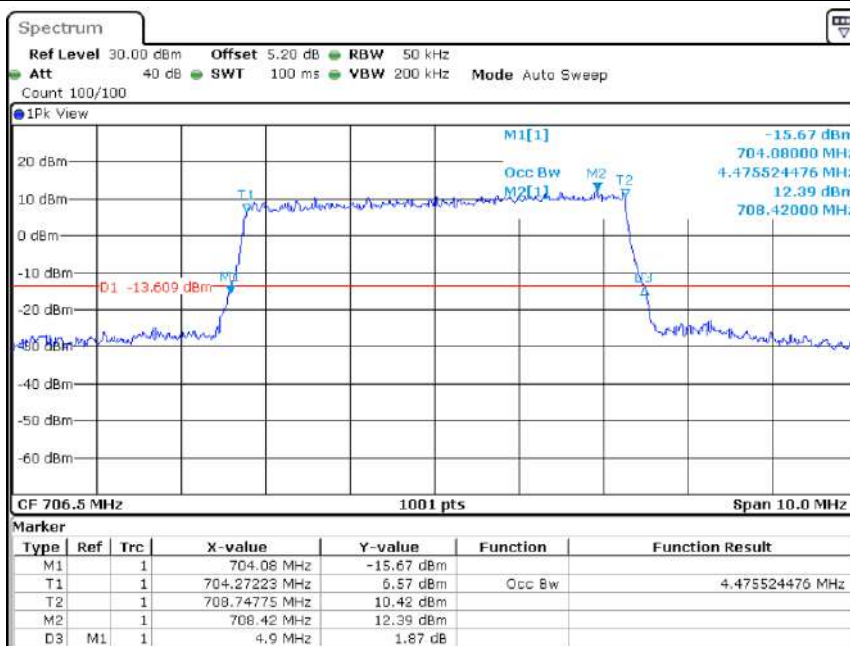
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Date: 11 AUG 2020 08:56:43

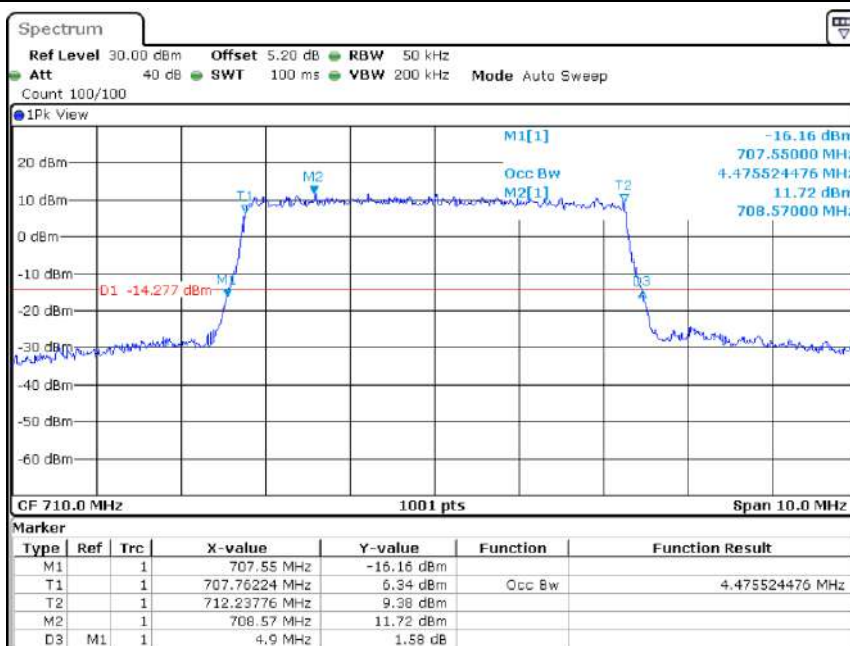


## Band17-5MHz-16QAM-23755-25RB#0-4.476



Date: 16 JUL 2020 02:15:16

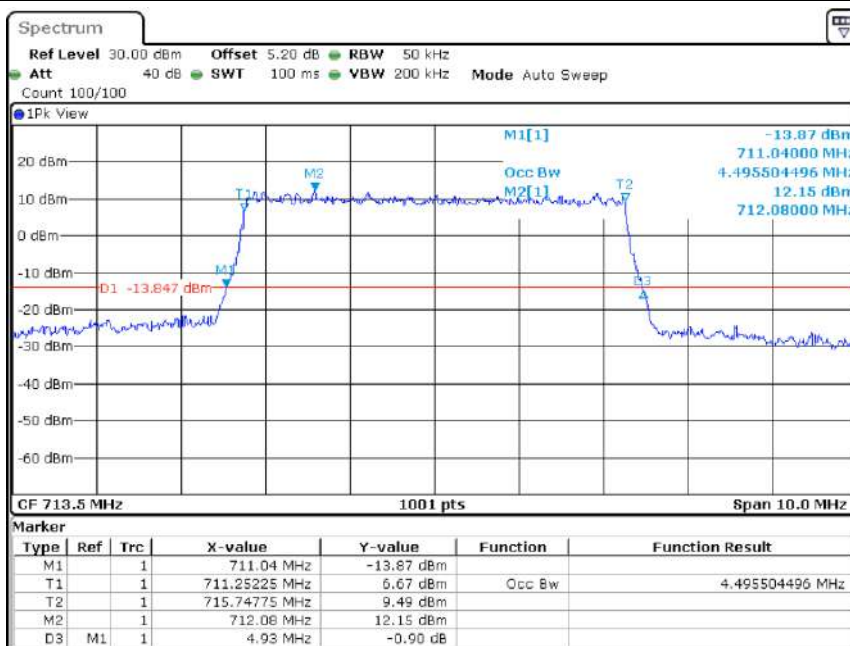
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Date: 16 JUL 2020 02:15:55

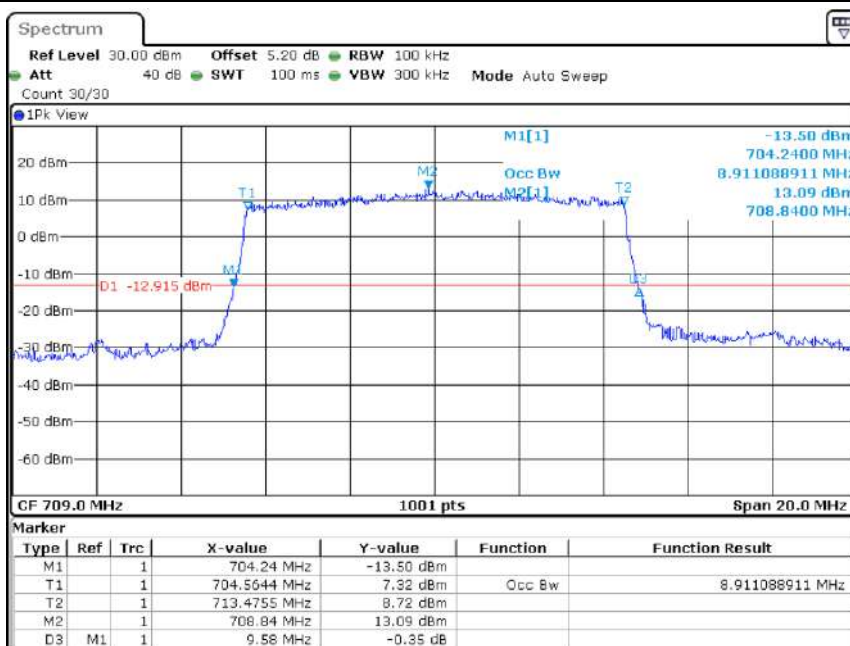


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Date: 16 JUL 2020 02:16:35

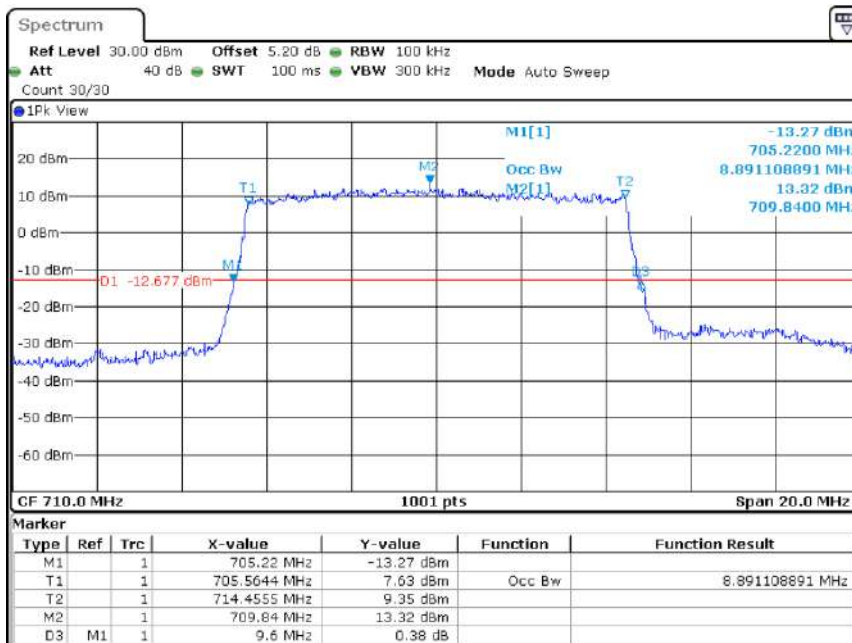
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Date: 16 JUL 2020 02:16:53

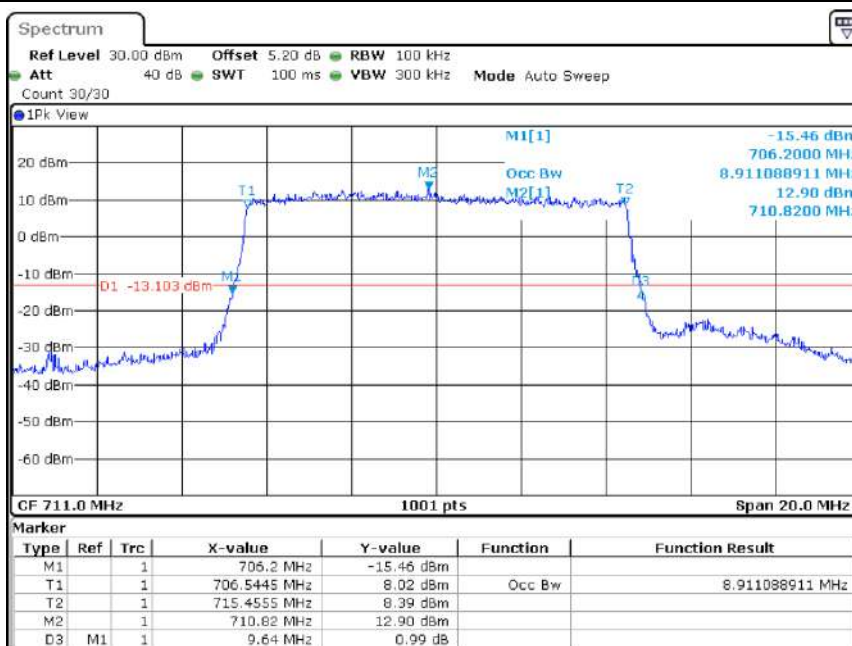


## Band17-10MHz-QPSK-23790-50RB#0-8.891



Date: 16 JUL 2020 02:17:19

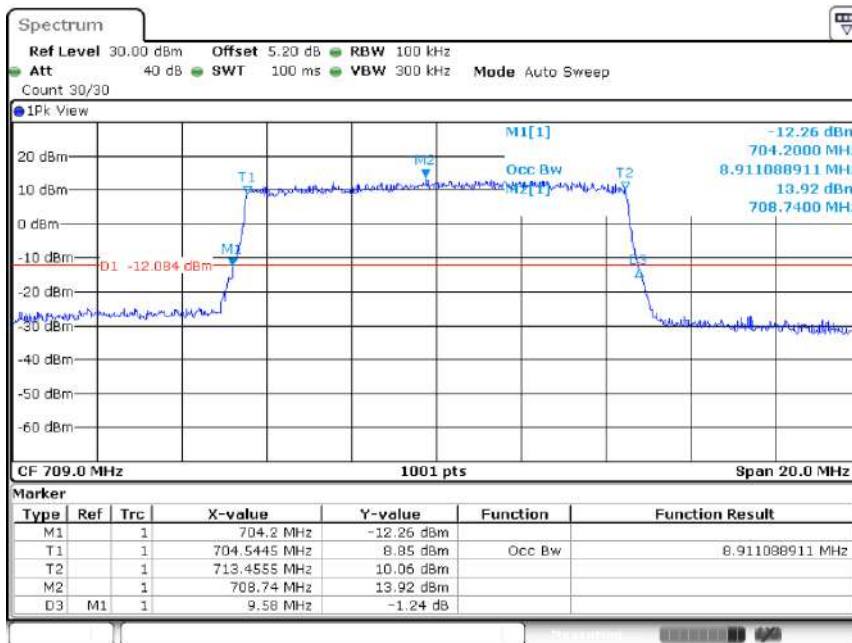
## Band17-10MHz-QPSK-23800-50RB#0-8.911



Date: 16 JUL 2020 02:17:44

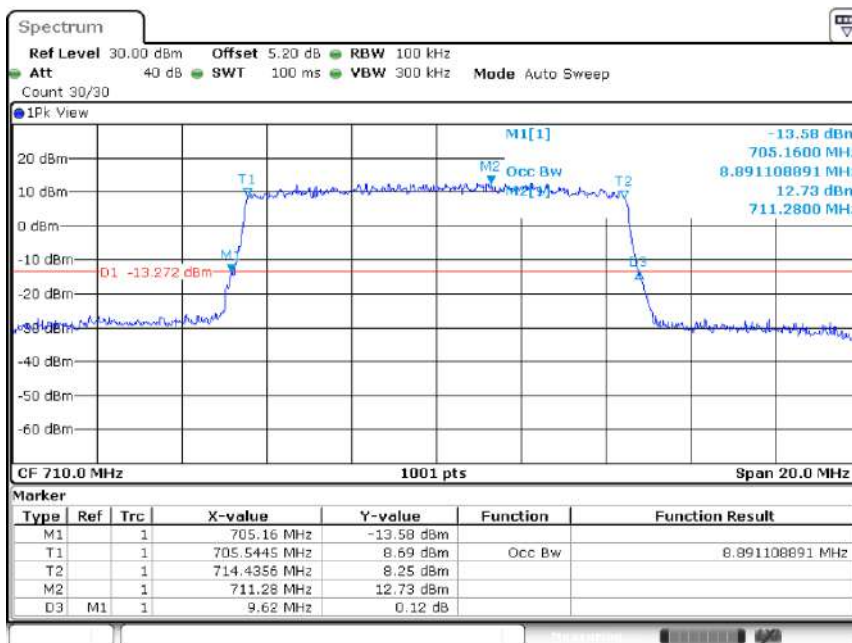


## Band17-10MHz-64QAM-23780-50RB#0-8.911



Date: 11 AUG 2020 08:57:03

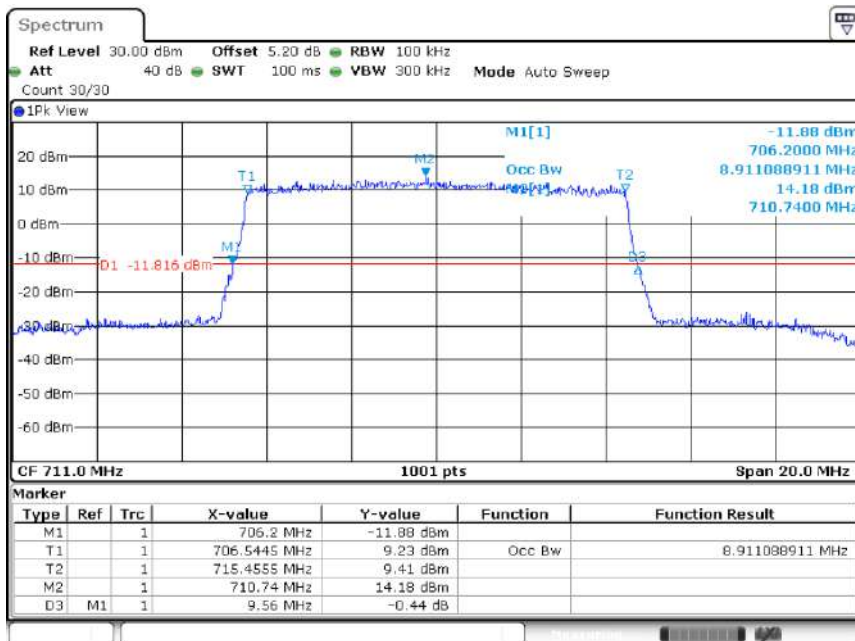
## Band17-10MHz-64QAM-23790-50RB#0-8.891



Date: 11 AUG 2020 08:57:16

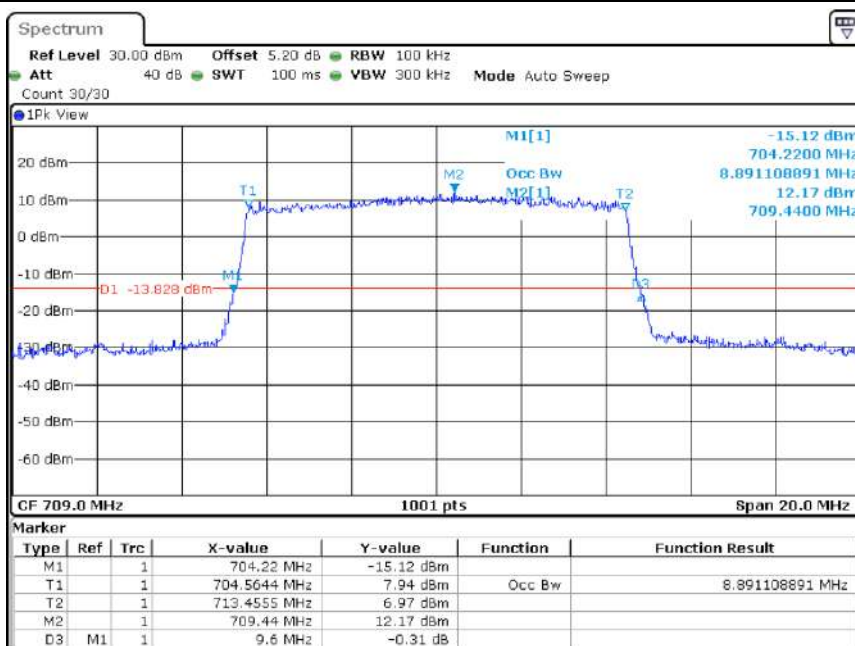


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Date: 11 AUG 2020 08:57:29

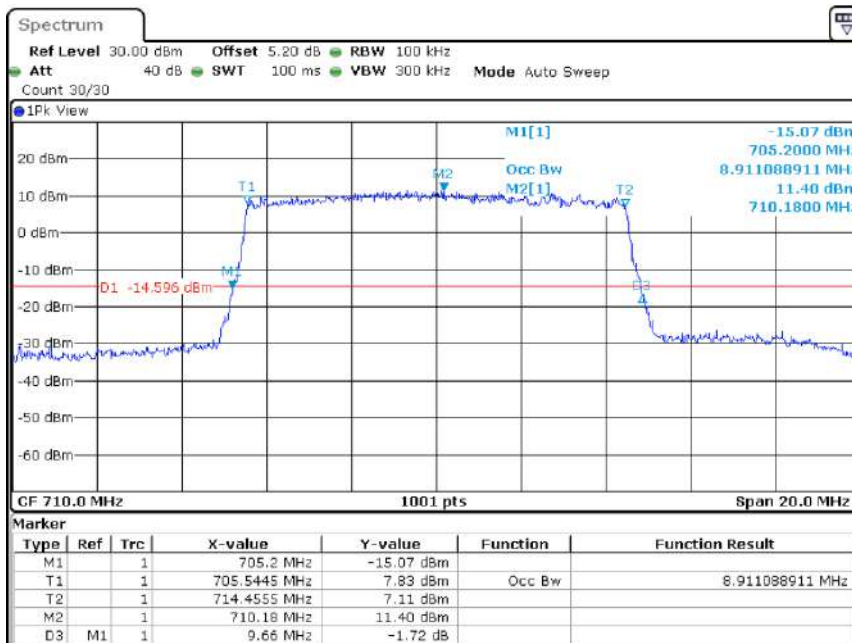
## Band17-10MHz-16QAM-23780-50RB#0-8.891



Date: 16 JUL 2020 02:17:06

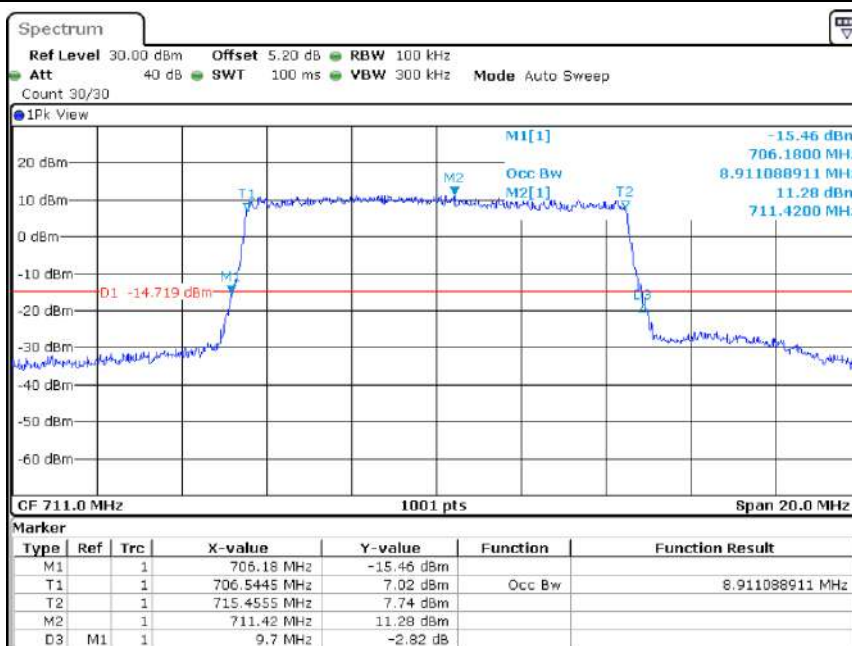


## Band17-10MHz-16QAM-23790-50RB#0-8.911



Date: 16 JUL 2020 02:17:31

## Band17-10MHz-16QAM-23800-50RB#0-8.911



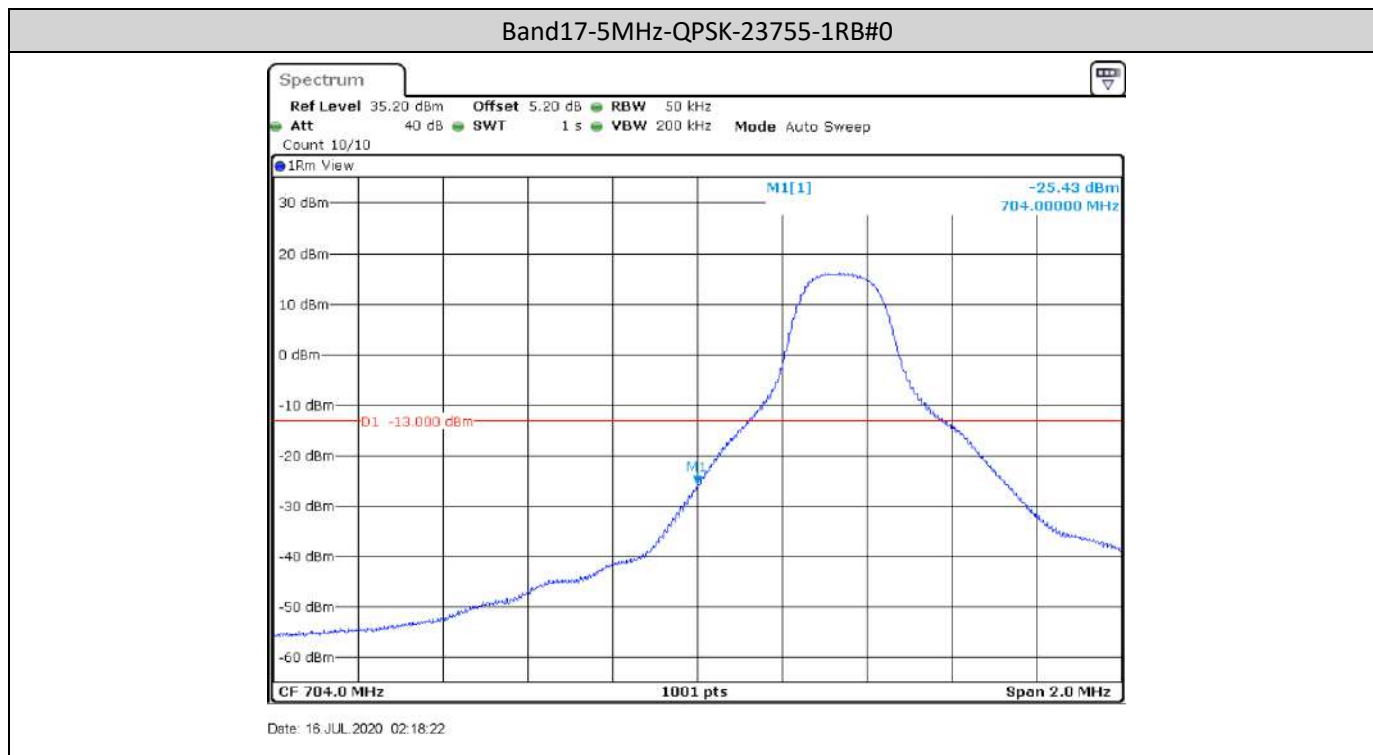
Date: 16 JUL 2020 02:17:57



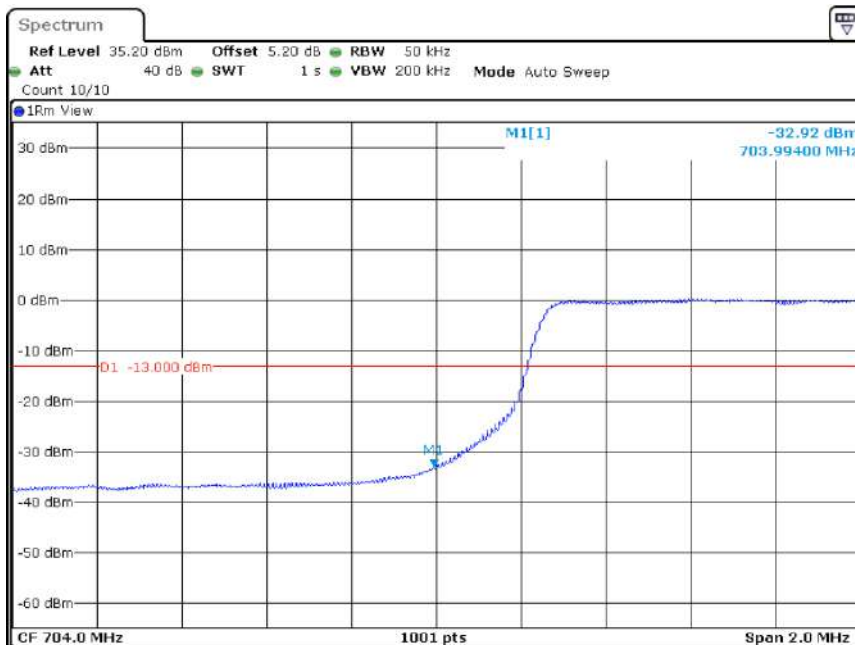


## 5. Band Edge Compliance

### 5.1. Test Plots

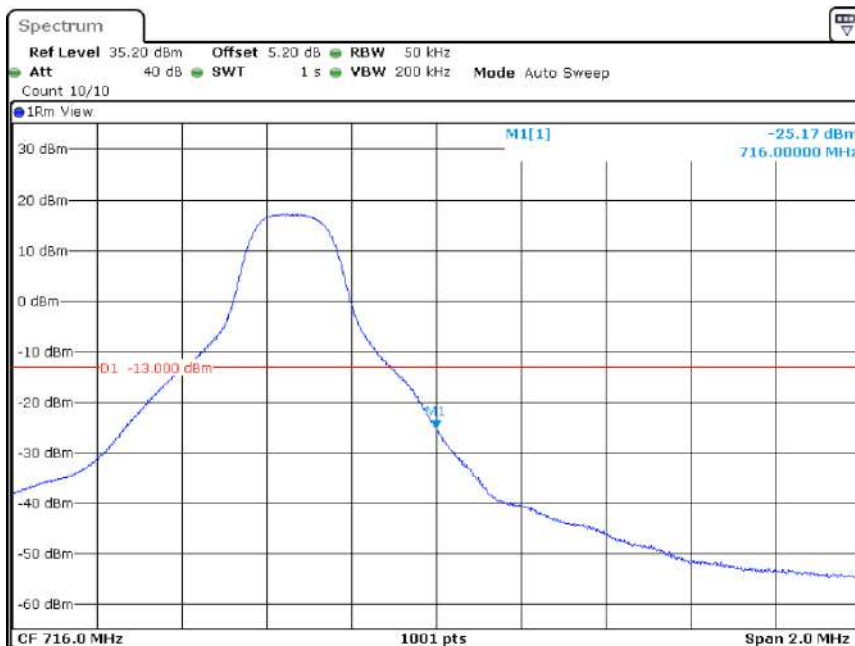


## Band17-5MHz-QPSK-23755-25RB#0



Date: 16 JUL 2020 02:19:03

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



Date: 16 JUL 2020 02:19:49



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



Date: 16 JUL 2020 02:20:30

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



Date: 11 AUG 2020 08:57:56

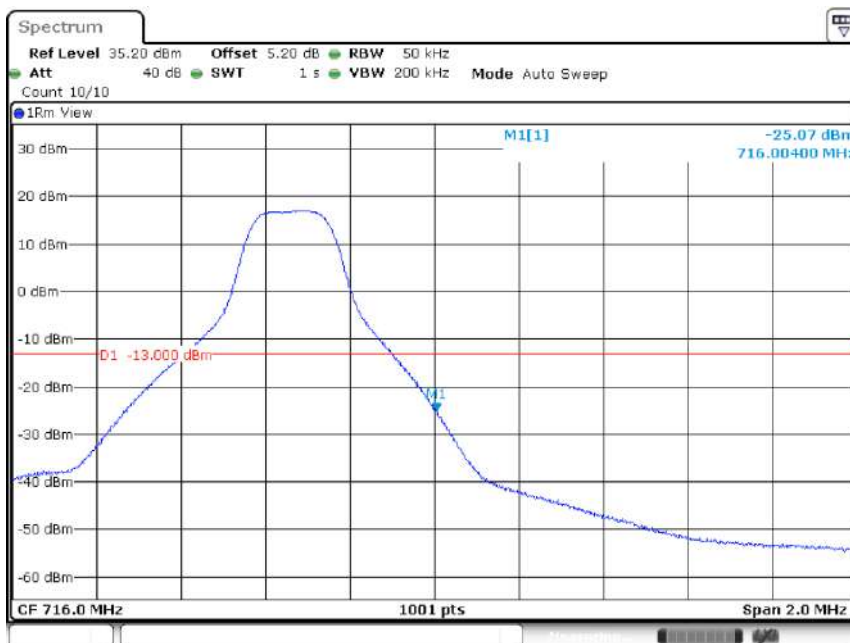


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Date: 11 AUG 2020 08:58:17

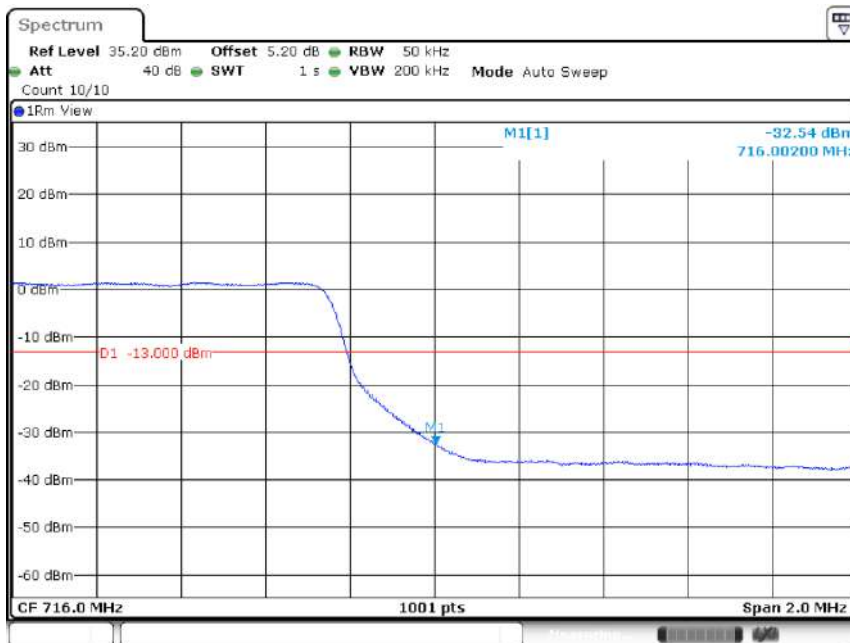
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Date: 11 AUG 2020 08:58:43

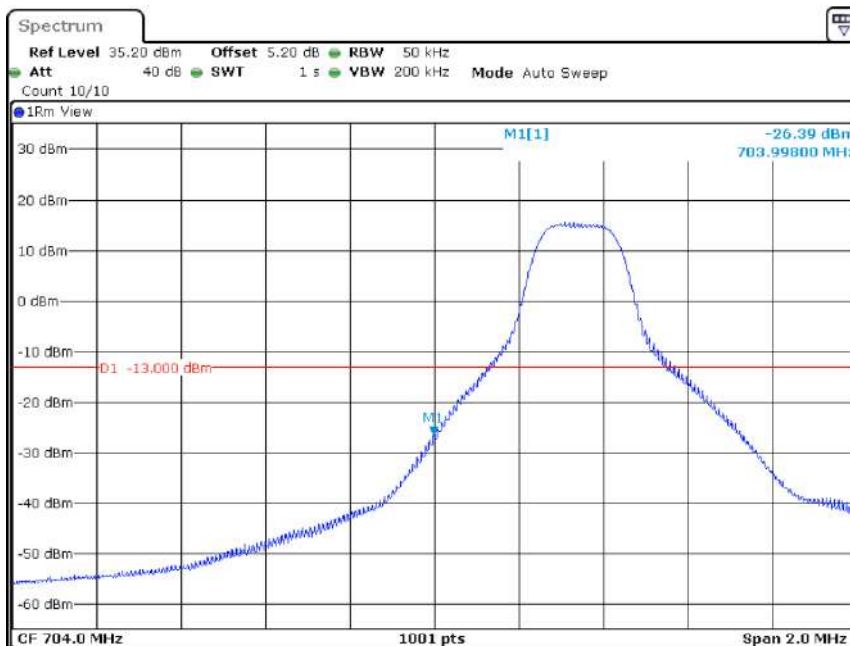


**Band17-5MHz-64QAM-23825-25RB#0**



Date: 11 AUG 2020 08:59:04

**Band17-5MHz-16QAM-23755-1RB#0**



Date: 16 JUL 2020 02:18:43



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Member of the SGS Group (SGS SA)

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



Date: 16 JUL 2020 02:19:24

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



Date: 16 JUL 2020 02:20:09



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



Date: 16 JUL 2020 02:20:50

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



Date: 16 JUL 2020 02:21:16



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



Date: 16 JUL 2020 02:21:57

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



Date: 16 JUL 2020 02:22:42

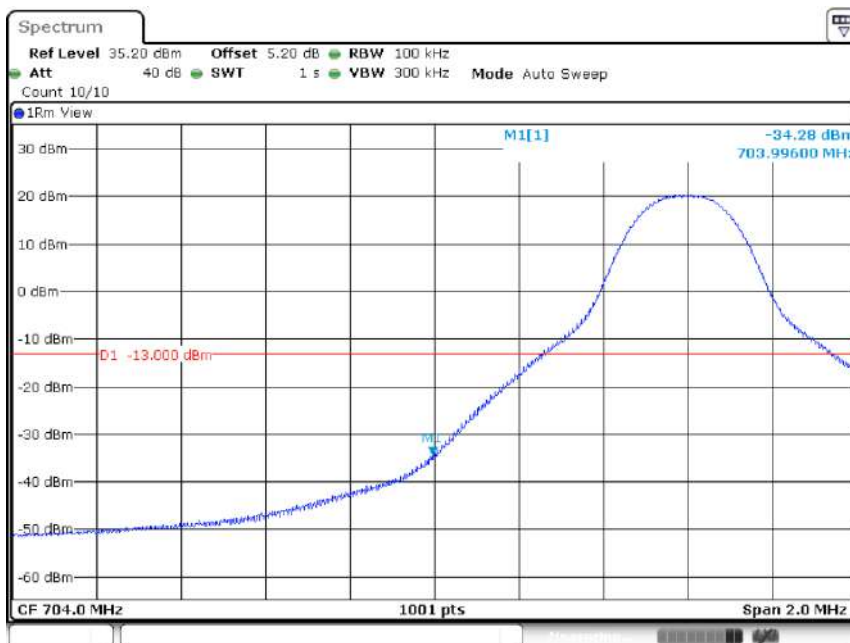


## Band17-10MHz-QPSK-23800-50RB#0



Date: 16 JUL 2020 02:23:23

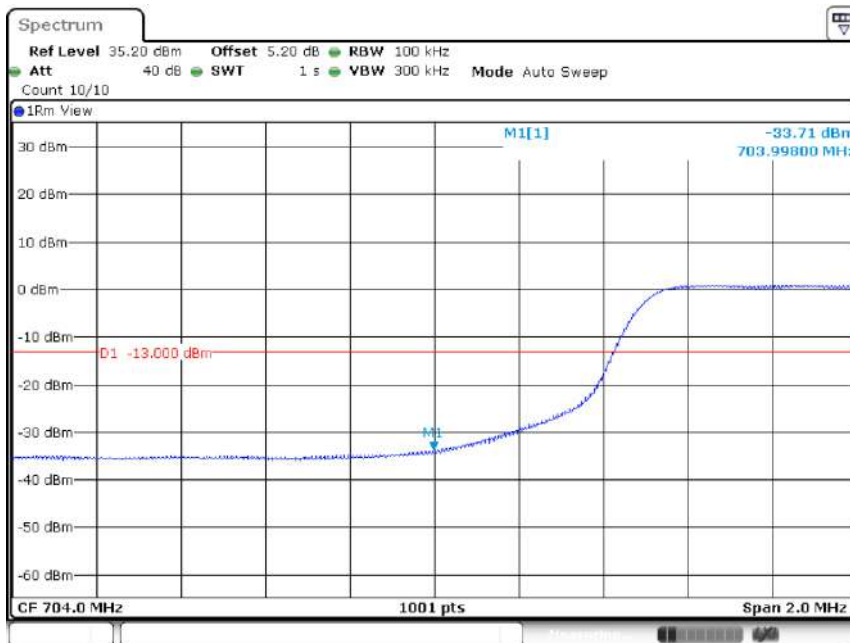
## Band17-10MHz-64QAM-23780-1RB#0



Date: 11 AUG 2020 08:59:31

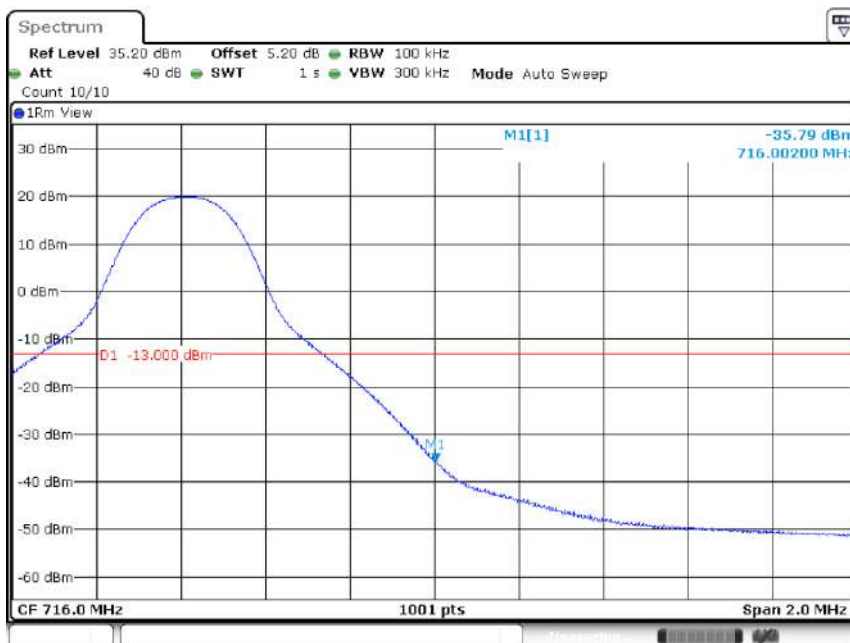


**Band17-10MHz-64QAM-23780-50RB#0**



Date: 11 AUG 2020 08:59:53

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



Date: 11 AUG 2020 09:00:19



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



Date: 11 AUG 2020 09:00:39

**Band17-10MHz-16QAM-23780-1RB#0**

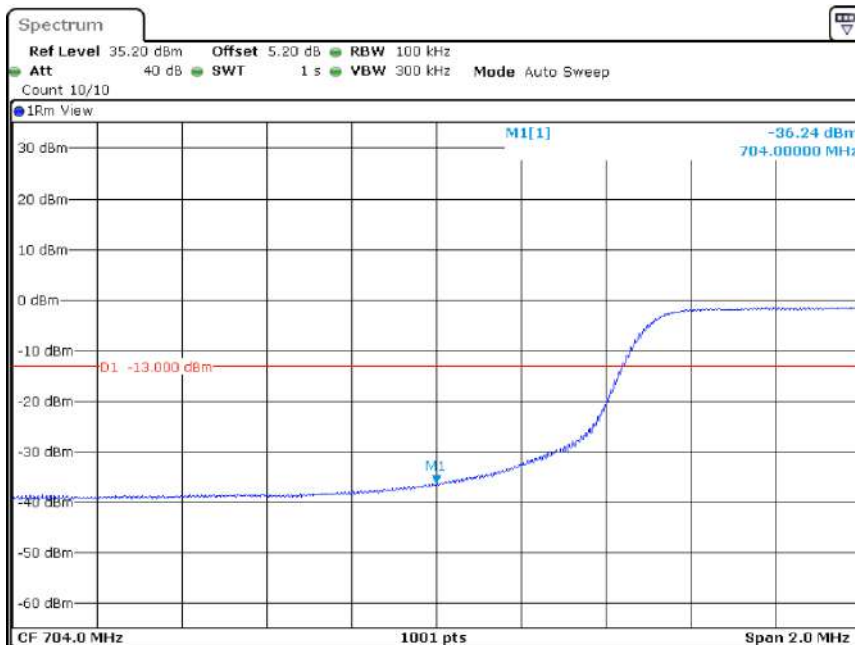


Date: 16 JUL 2020 02:21:36



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



Date: 16 JUL 2020 02:22:17

## Band17-10MHz-16QAM-23800-1RB#49



Date: 16 JUL 2020 02:23:02



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



Date: 16 JUL 2020 02:23:44

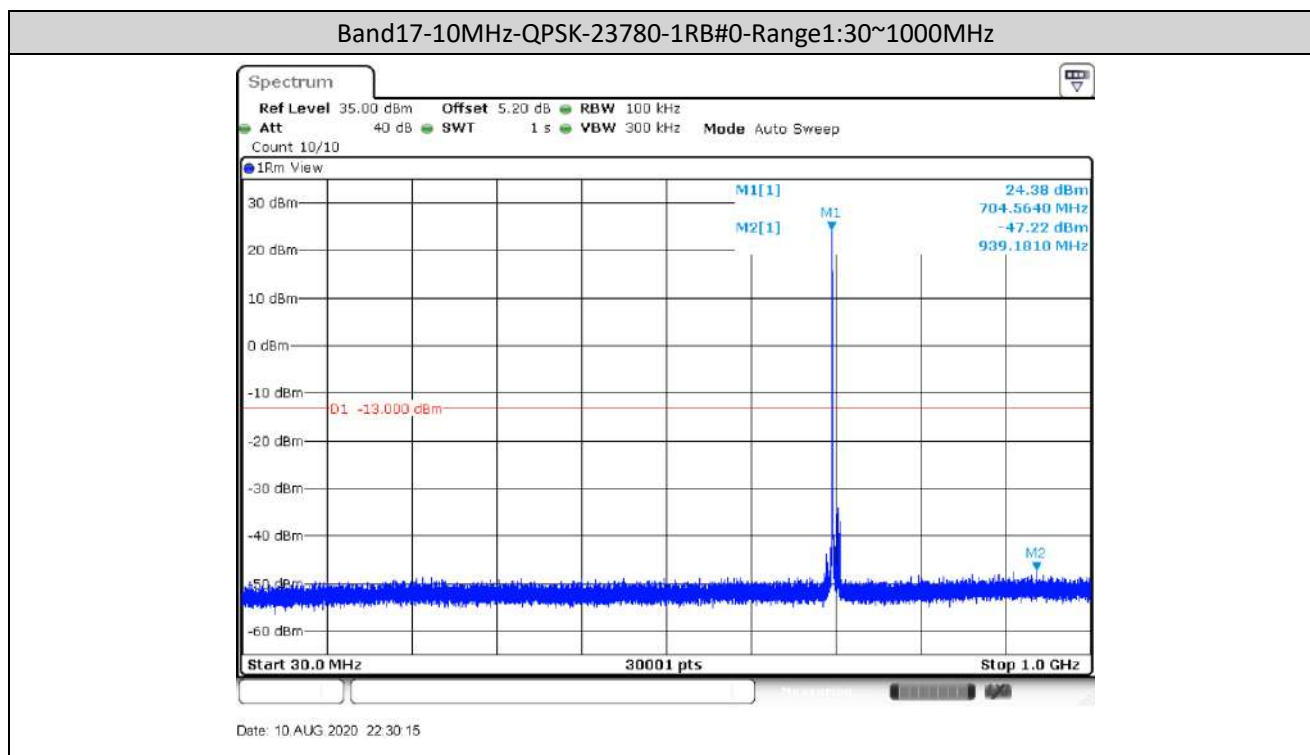


## 6. Spurious Emission at Antenna Terminal

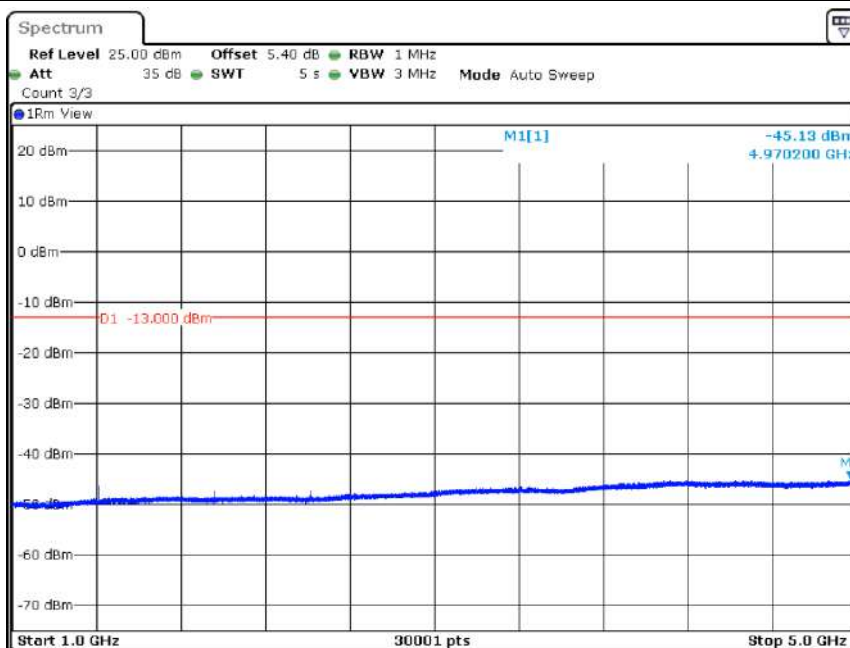
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of  $< RBW/2$  so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points =  $k * (\text{Span} / \text{RBW})$ " 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.

### 6.1. Test Plots

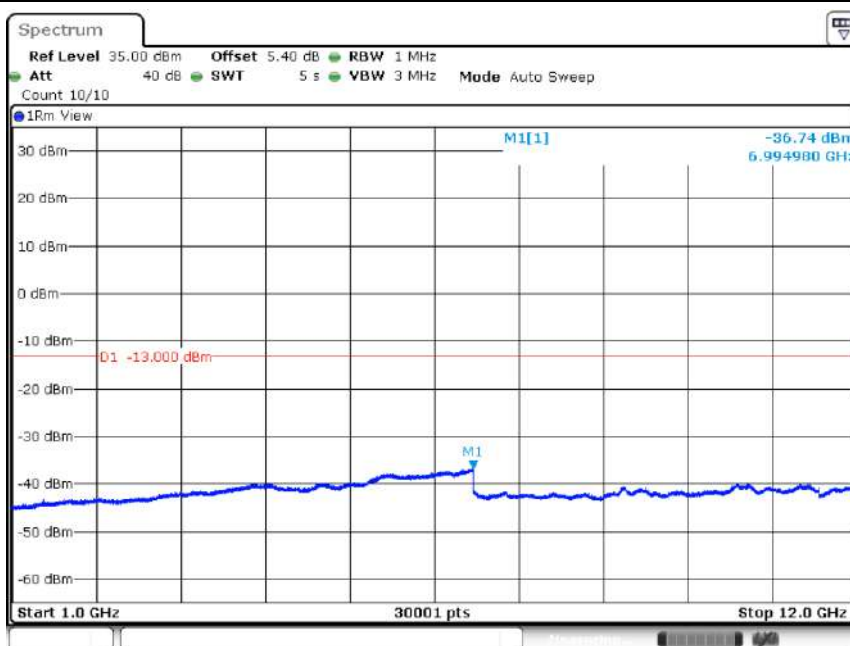


## Band17-10MHz-QPSK-23780-1RB#0-Range2:1000~5000MHz



Date: 18 JUL 2020 02:24:21

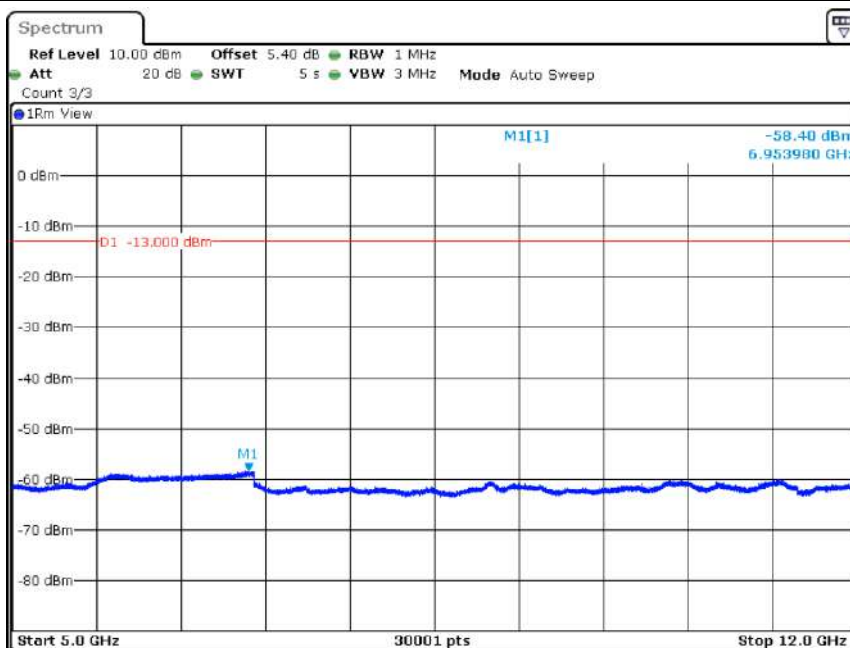
## Band17-10MHz-QPSK-23780-1RB#0-Range2:1000~12000MHz



Date: 10 AUG 2020 22:31:22

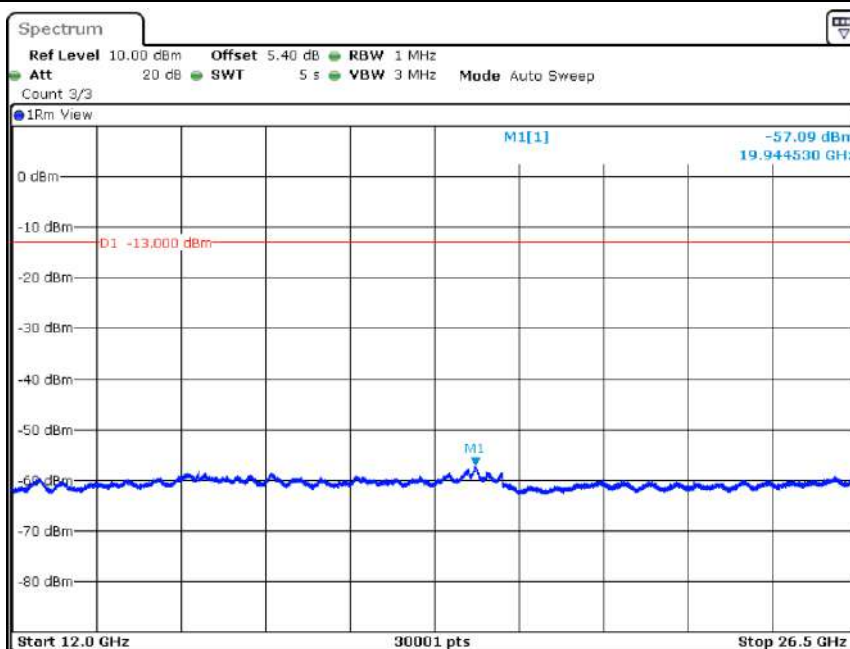


## Band17-10MHz-QPSK-23780-1RB#0-Range3:5000~12000MHz



Date: 16 JUL 2020 02:24:43

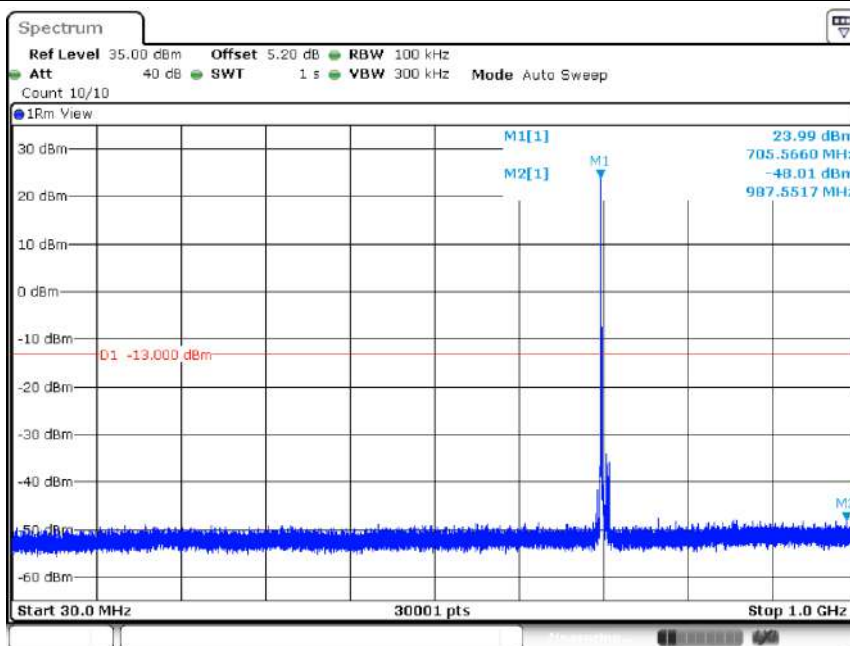
## Band17-10MHz-QPSK-23780-1RB#0-Range4:12000~26500MHz



Date: 16 JUL 2020 02:25:05

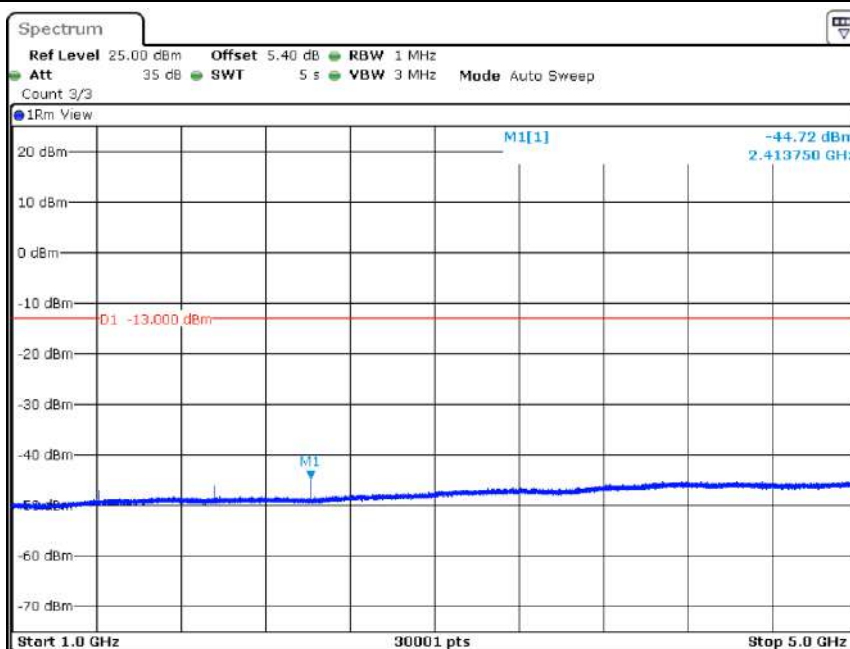


Band17-10MHz-QPSK-23790-1RB#0-Range1:30~1000MHz



Date: 10 AUG 2020 22:33:09

Band17-10MHz-QPSK-23790-1RB#0-Range2:1000~5000MHz



Date: 16 JUL 2020 02:26:57



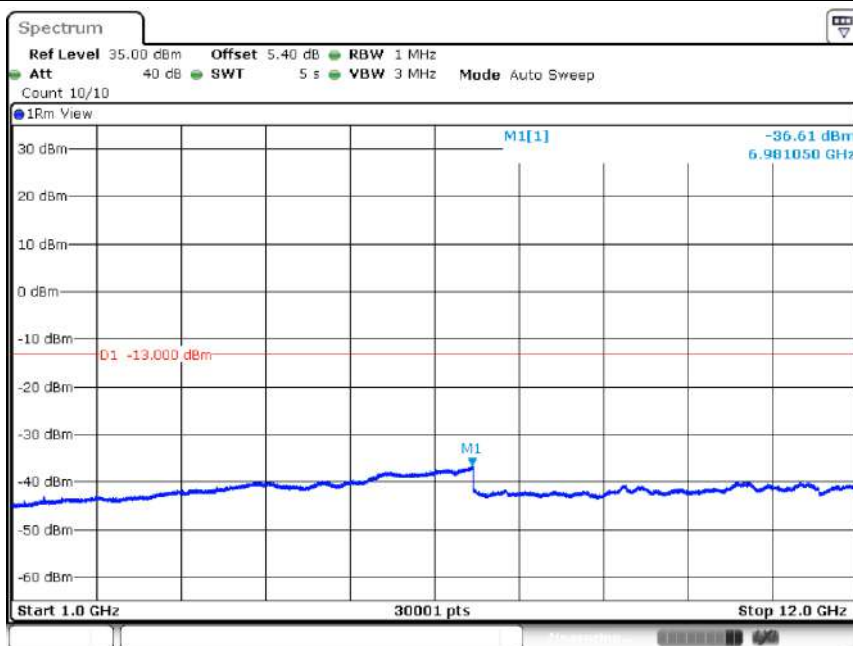
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## Band17-10MHz-QPSK-23790-1RB#0-Range2:1000~12000MHz



Date: 10.AUG.2020 22:34:17

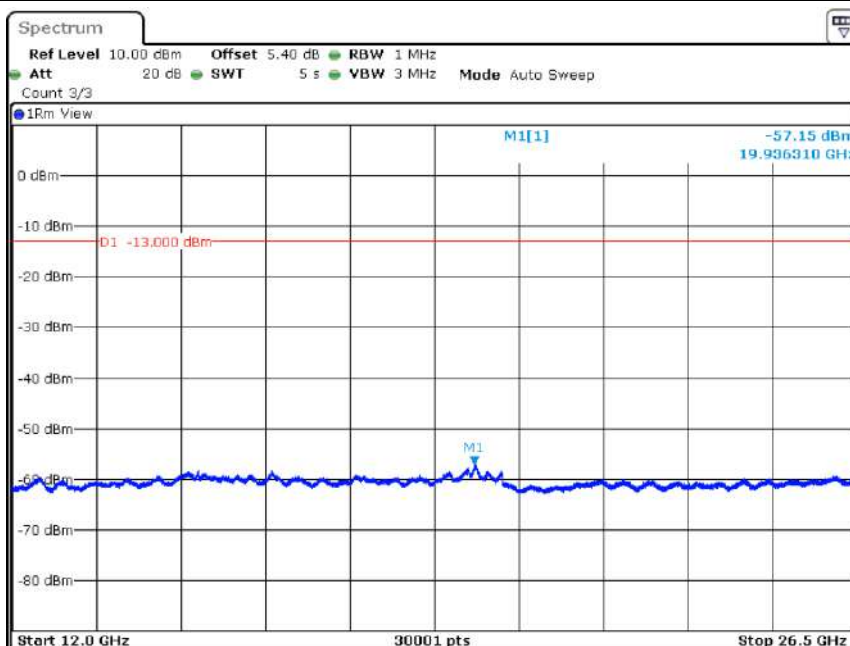
## Band17-10MHz-QPSK-23790-1RB#0-Range3:5000~12000MHz



Date: 16.JUL.2020 02:27:19

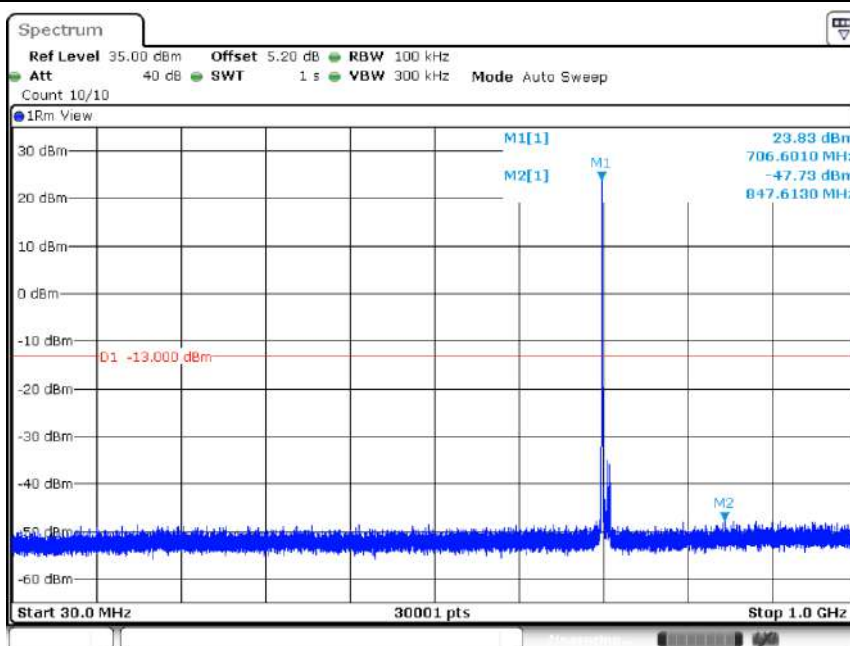


## Band17-10MHz-QPSK-23790-1RB#0-Range4:12000~26500MHz



Date: 16 JUL 2020 02:27:40

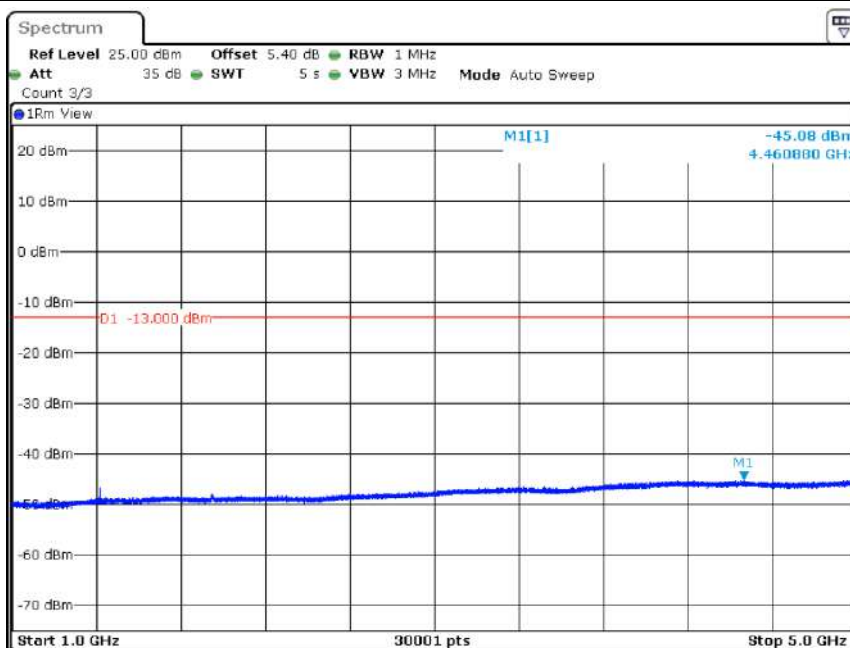
## Band17-10MHz-QPSK-23800-1RB#0-Range1:30~1000MHz



Date: 10 AUG 2020 22:36:04

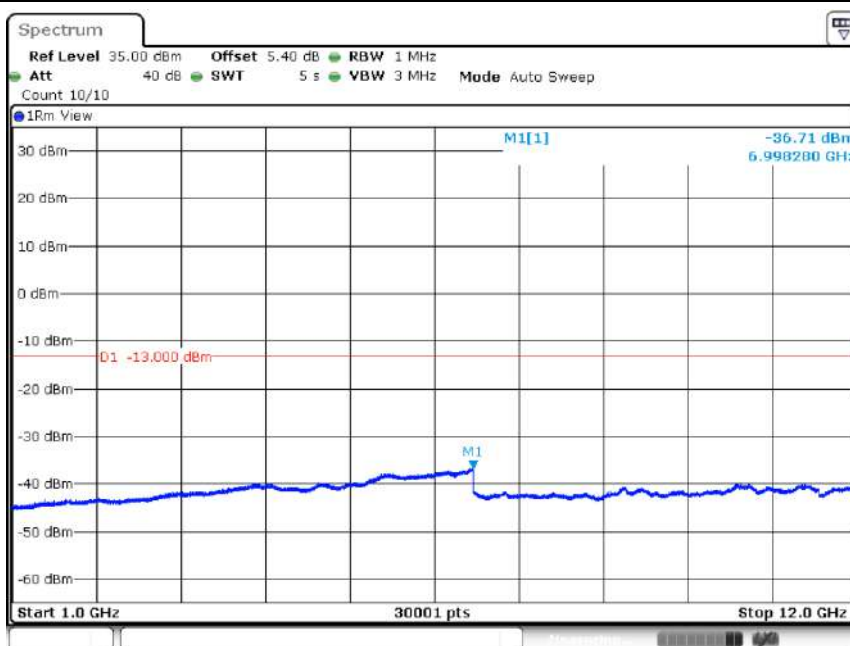


## Band17-10MHz-QPSK-23800-1RB#0-Range2:1000~5000MHz



Date: 16 JUL 2020 02:29:32

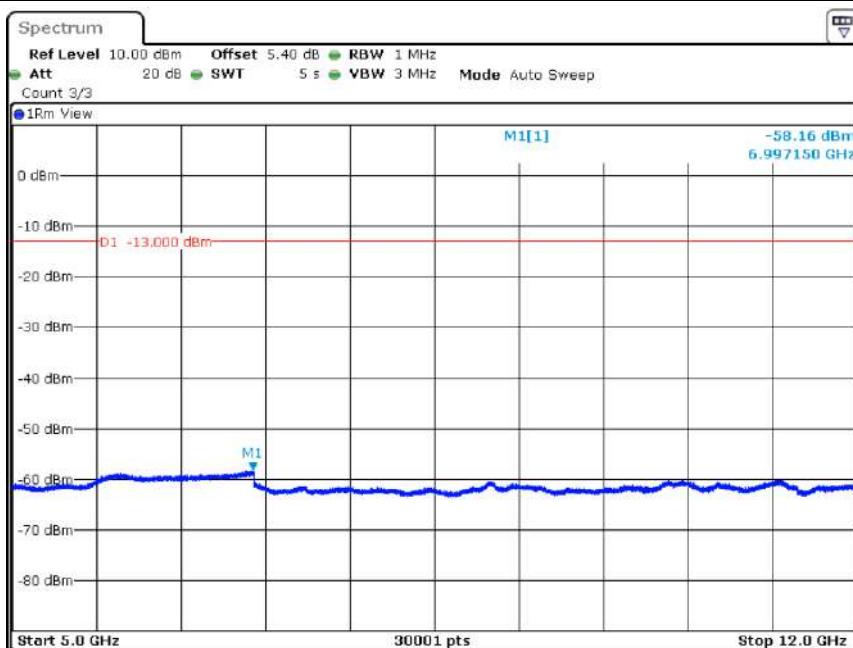
## Band17-10MHz-QPSK-23800-1RB#0-Range2:1000~12000MHz



Date: 10 AUG 2020 22:37:11

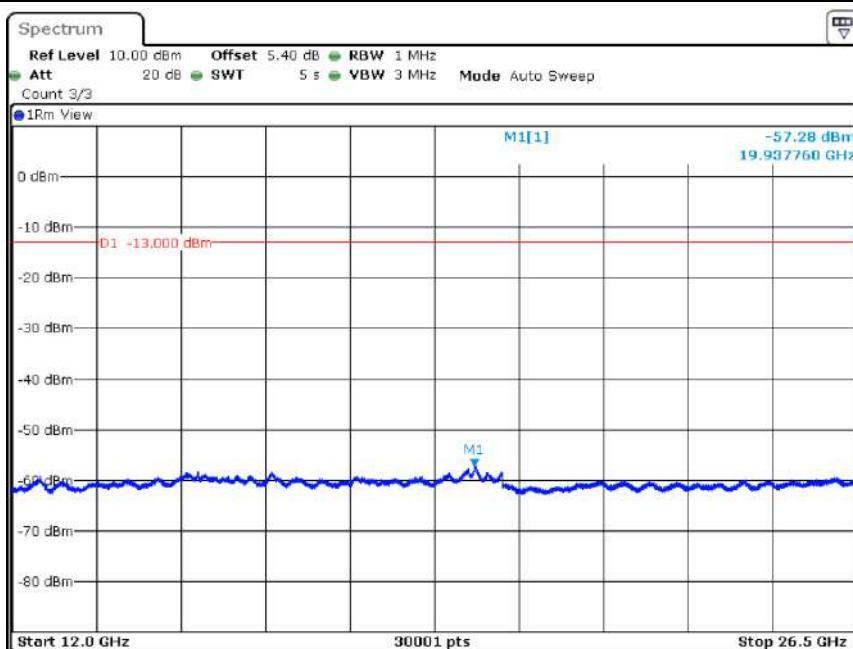


## Band17-10MHz-QPSK-23800-1RB#0-Range3:5000~12000MHz



Date: 16 JUL 2020 02:29:54

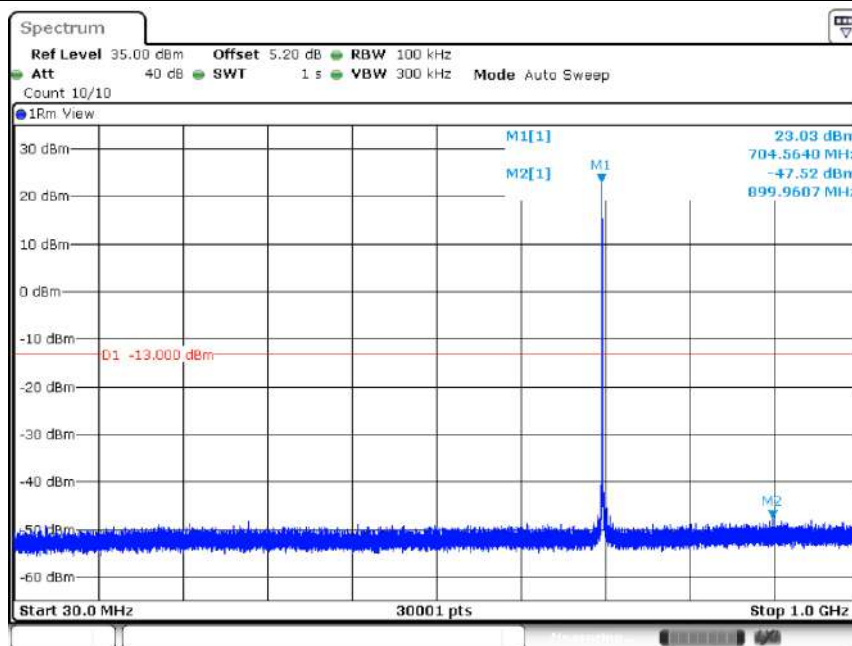
## Band17-10MHz-QPSK-23800-1RB#0-Range4:12000~26500MHz



Date: 16 JUL 2020 02:30:16

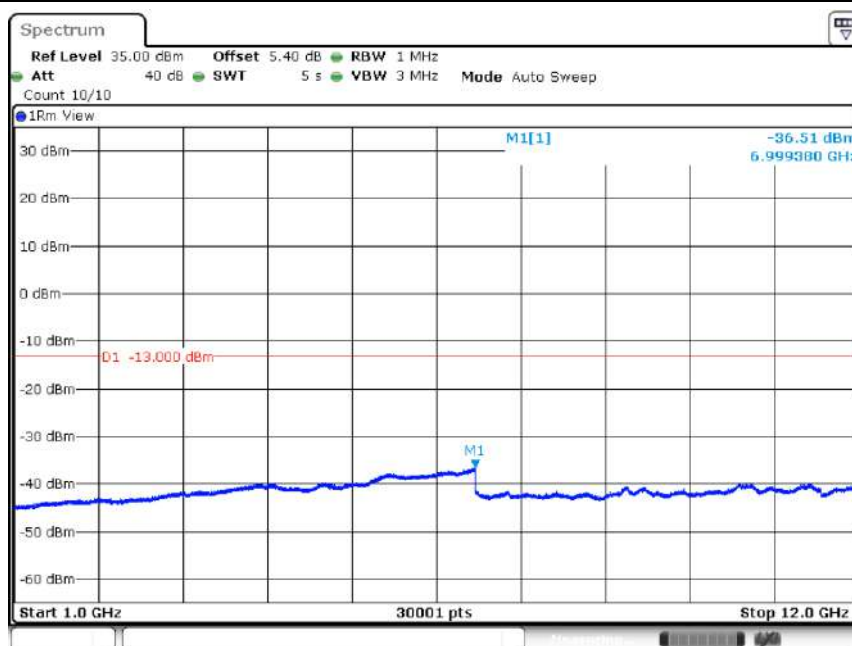


## Band17-10MHz-64QAM-23780-1RB#0-Range1:30~1000MHz



Date: 11 AUG 2020 09:01:04

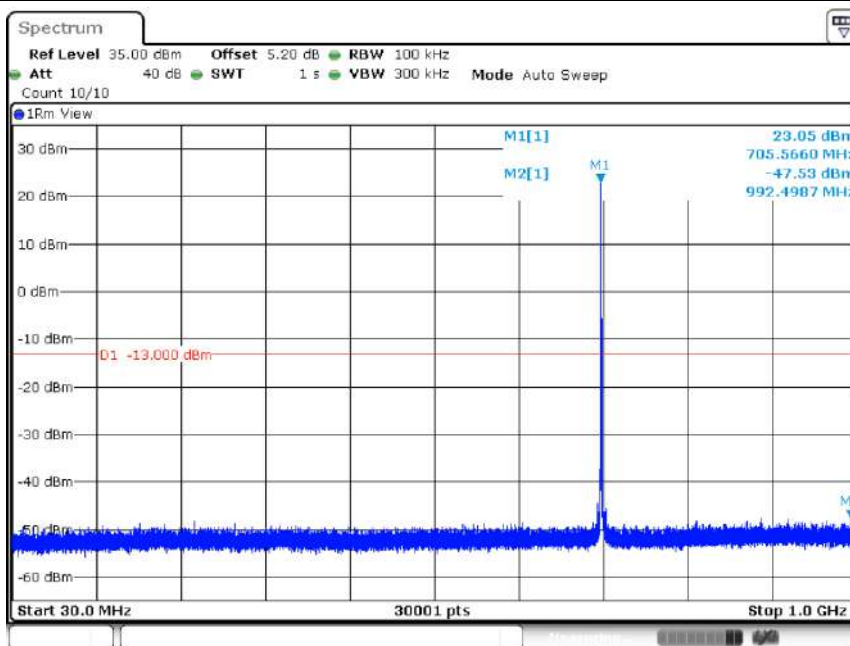
## Band17-10MHz-64QAM-23780-1RB#0-Range2:1000~12000MHz



Date: 11 AUG 2020 09:02:12

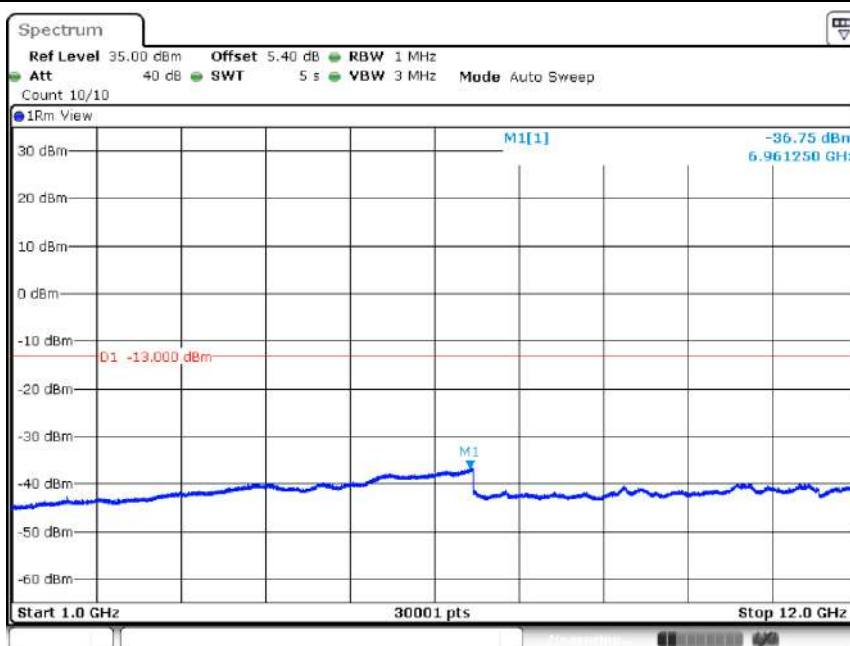


## Band17-10MHz-64QAM-23790-1RB#0-Range1:30~1000MHz



Date: 11 AUG 2020 09:02:32

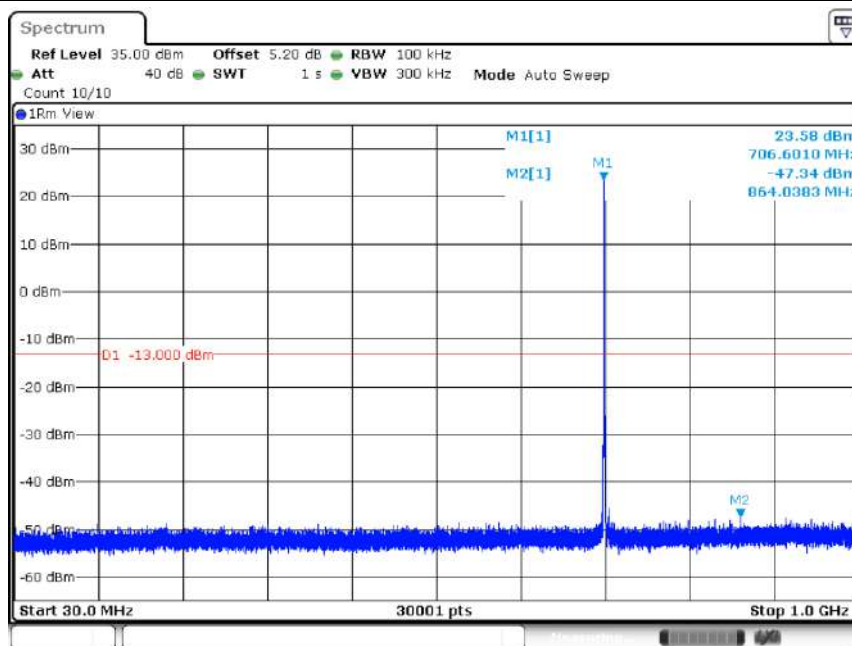
## Band17-10MHz-64QAM-23790-1RB#0-Range2:1000~12000MHz



Date: 11 AUG 2020 09:03:39

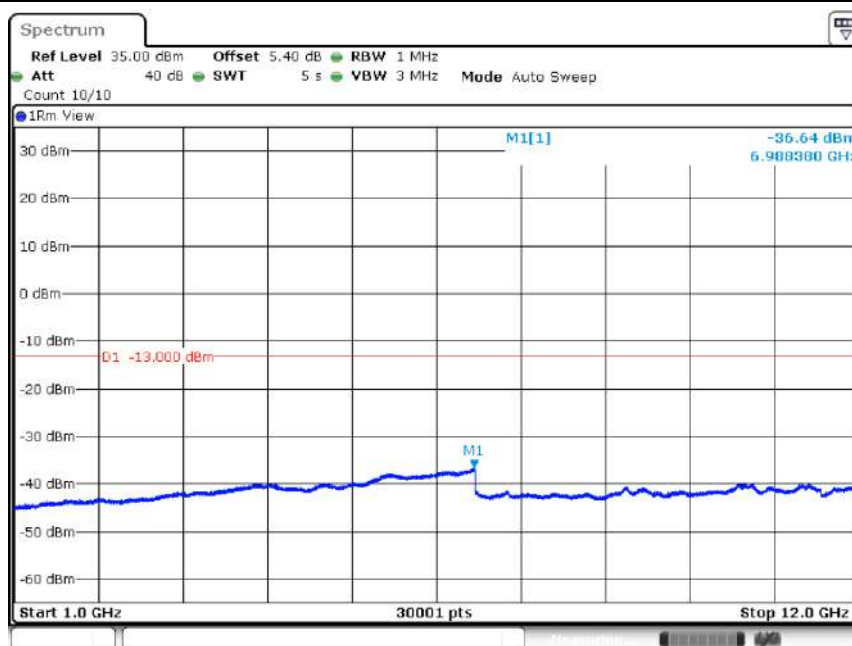


## Band17-10MHz-64QAM-23800-1RB#0-Range1:30~1000MHz



Date: 11 AUG 2020 09:04:00

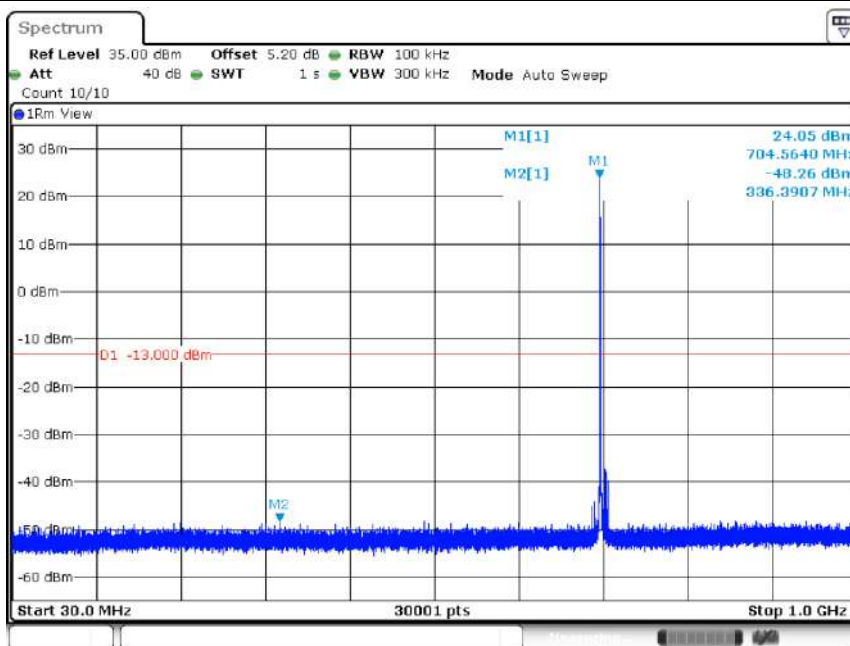
## Band17-10MHz-64QAM-23800-1RB#0-Range2:1000~12000MHz



Date: 11 AUG 2020 09:05:09

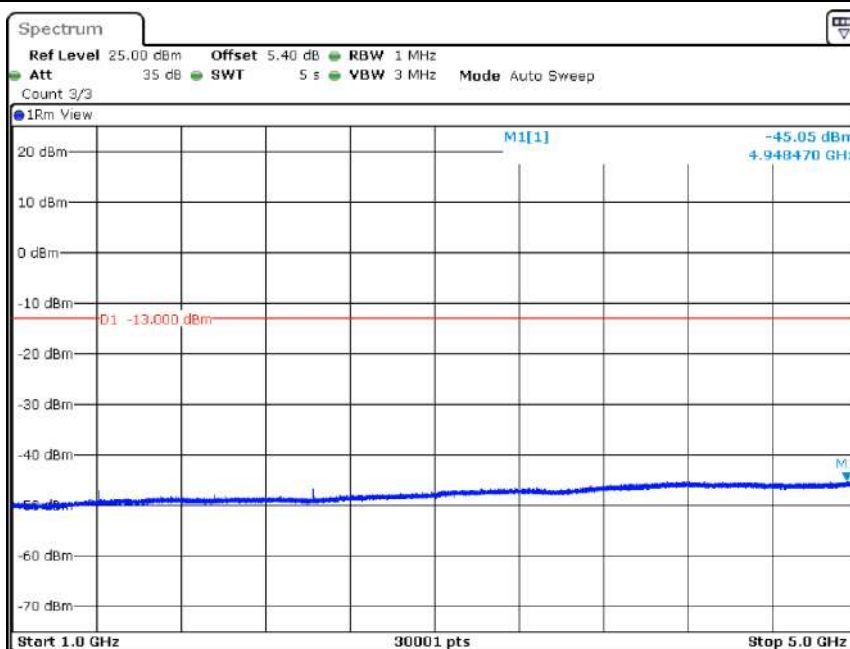


## Band17-10MHz-16QAM-23780-1RB#0-Range1:30~1000MHz



Date: 10.AUG.2020 22:31:42

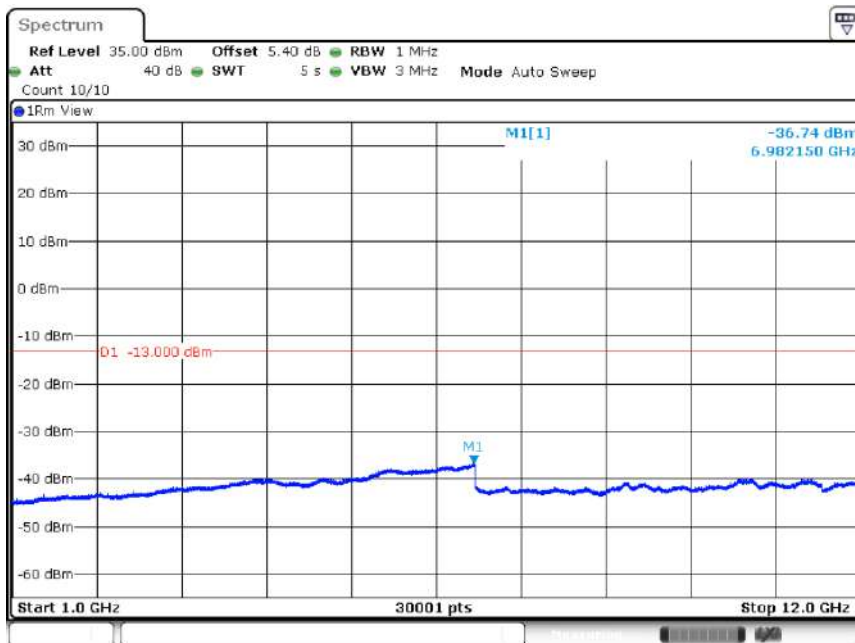
## Band17-10MHz-16QAM-23780-1RB#0-Range2:1000~5000MHz



Date: 16.JUL.2020 02:25:38

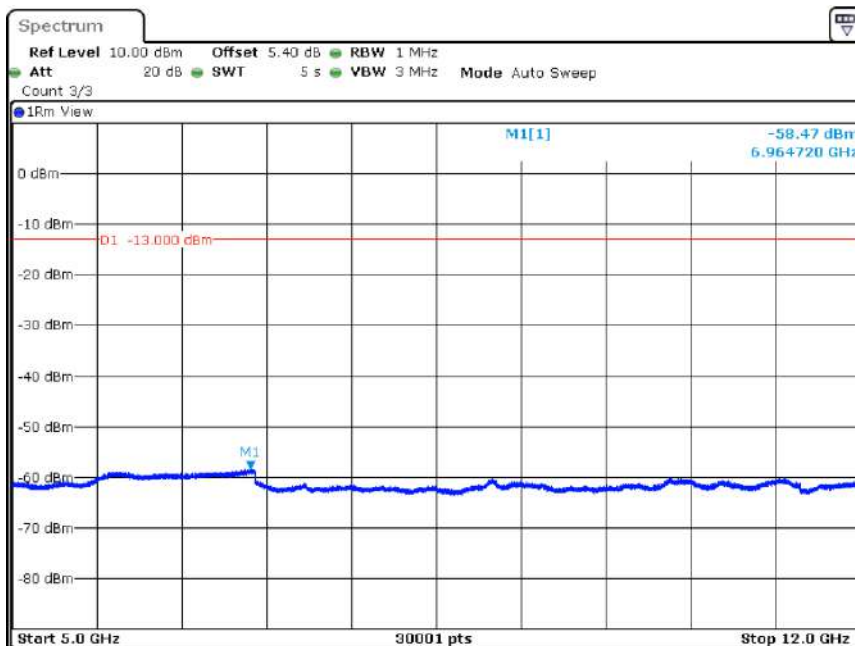


**Band17-10MHz-16QAM-23780-1RB#0-Range2:1000~12000MHz**



Date: 10 AUG 2020 22:32:49

**Band17-10MHz-16QAM-23780-1RB#0-Range3:5000~12000MHz**



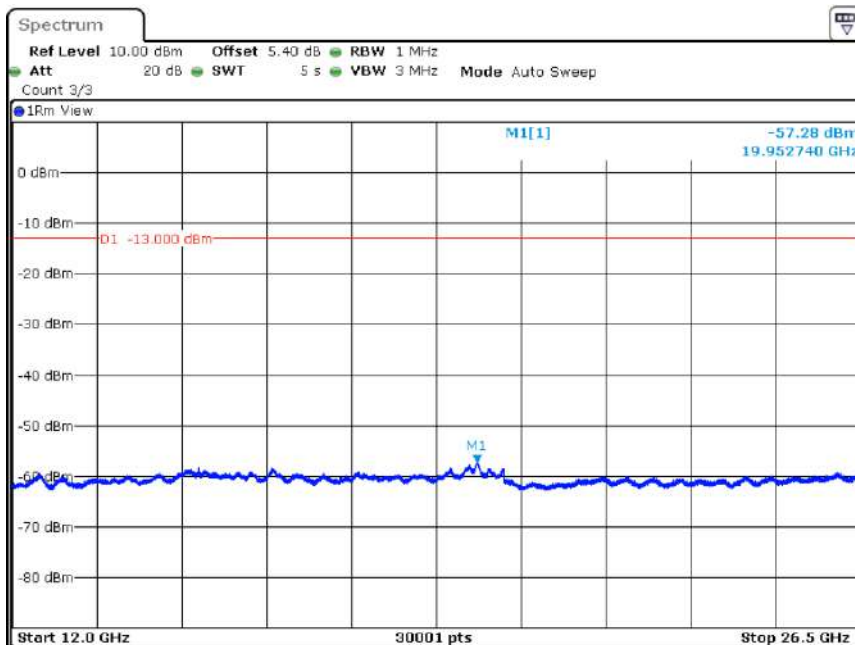
Date: 16 JUL 2020 02:26:00



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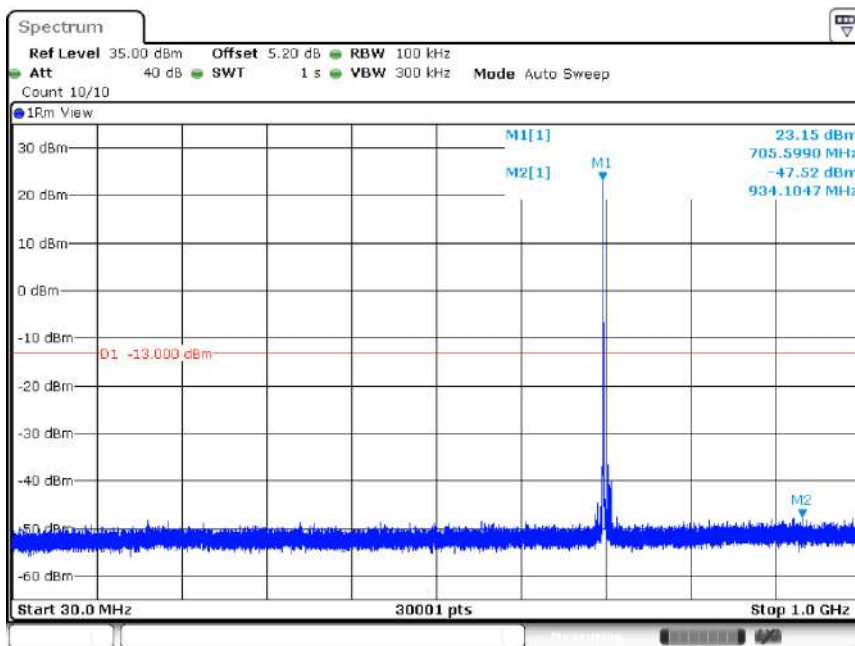
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## Band17-10MHz-16QAM-23780-1RB#0-Range4:12000~26500MHz



Date: 16 JUL 2020 02:26:22

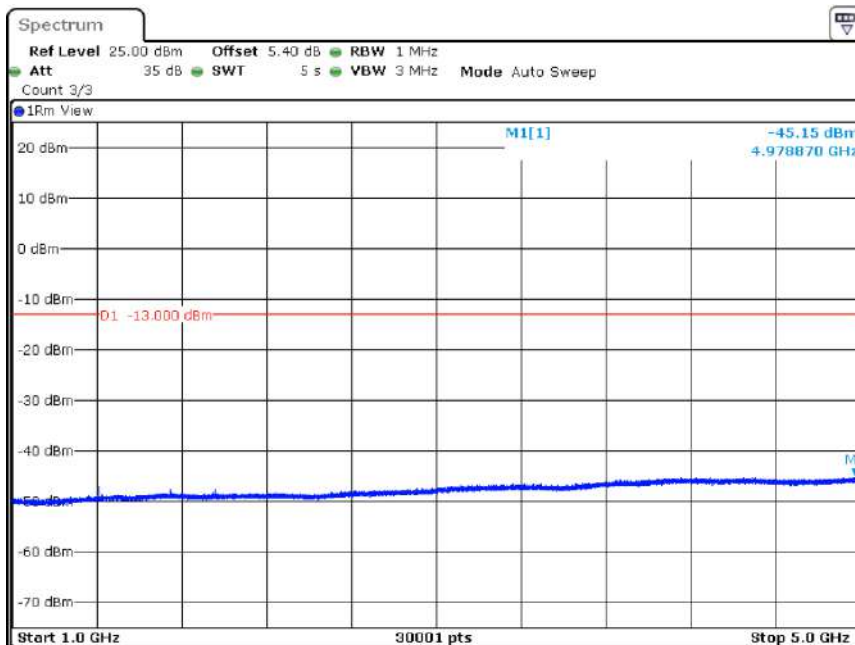
## Band17-10MHz-16QAM-23790-1RB#0-Range1:30~1000MHz



Date: 10 AUG 2020 22:34:36

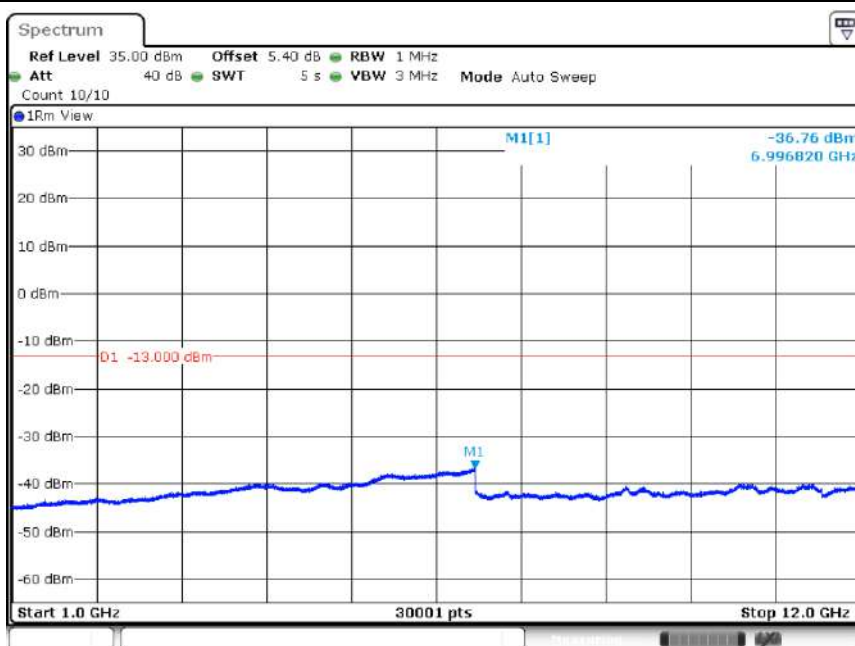


## Band17-10MHz-16QAM-23790-1RB#0-Range2:1000~5000MHz



Date: 16 JUL 2020 02:28:14

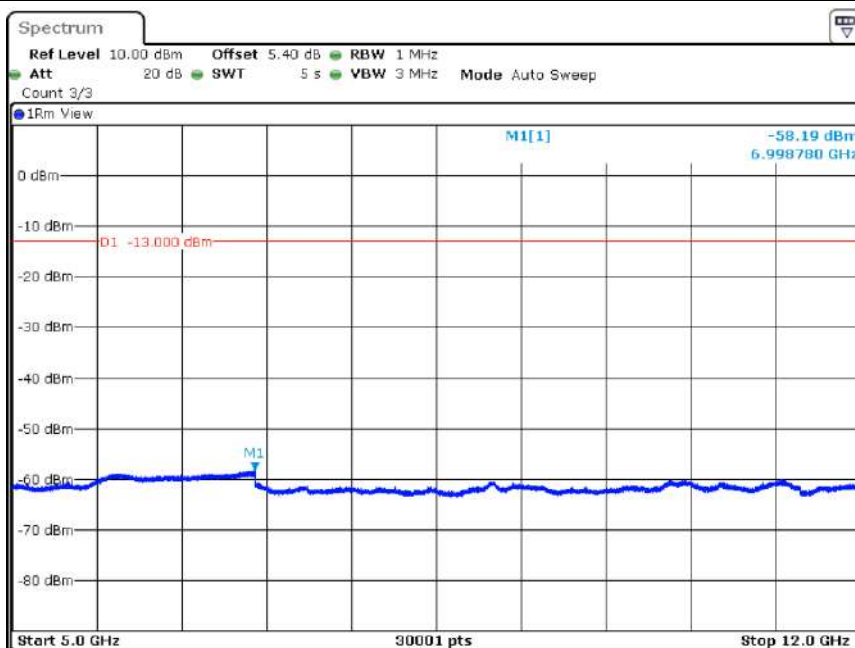
## Band17-10MHz-16QAM-23790-1RB#0-Range2:1000~12000MHz



Date: 10 AUG 2020 22:35:44

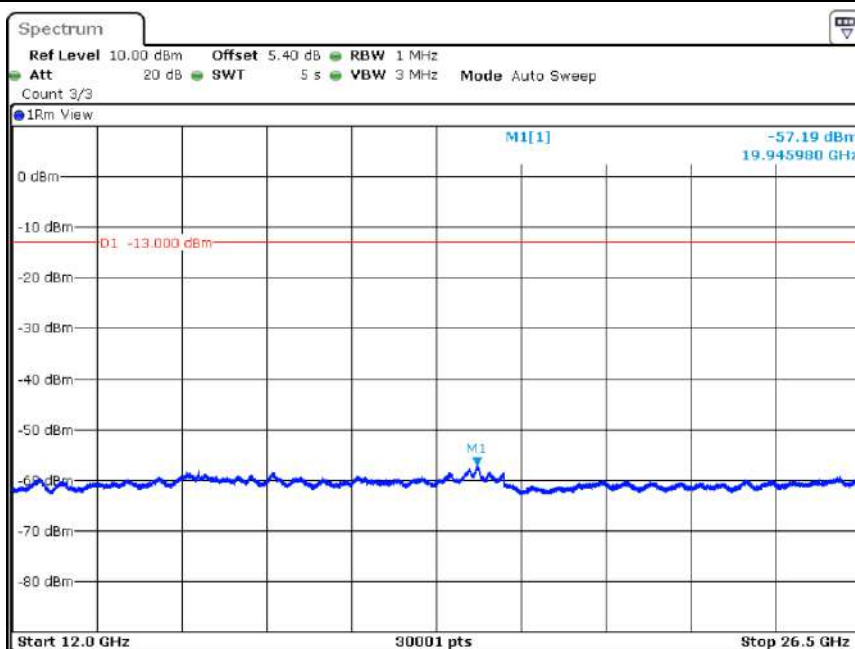


## Band17-10MHz-16QAM-23790-1RB#0-Range3:5000~12000MHz



Date: 16 JUL 2020 02:28:36

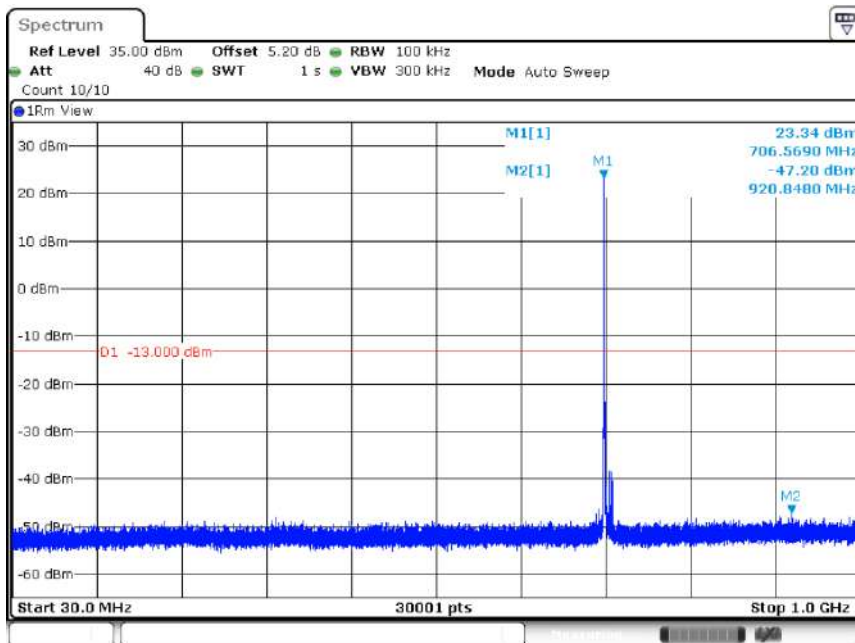
## Band17-10MHz-16QAM-23790-1RB#0-Range4:12000~26500MHz



Date: 16 JUL 2020 02:28:58

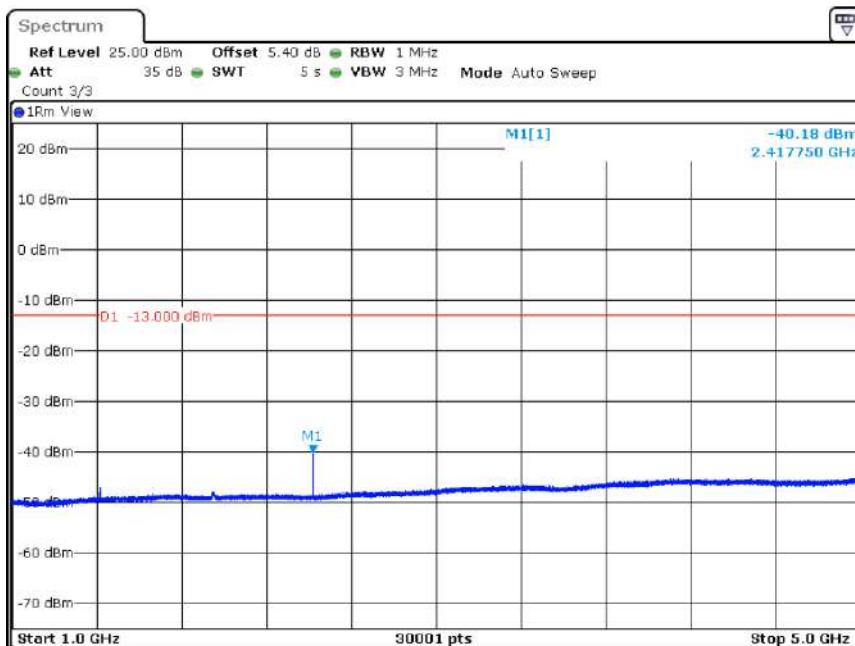


## Band17-10MHz-16QAM-23800-1RB#0-Range1:30~1000MHz



Date: 10 AUG 2020 22:37:31

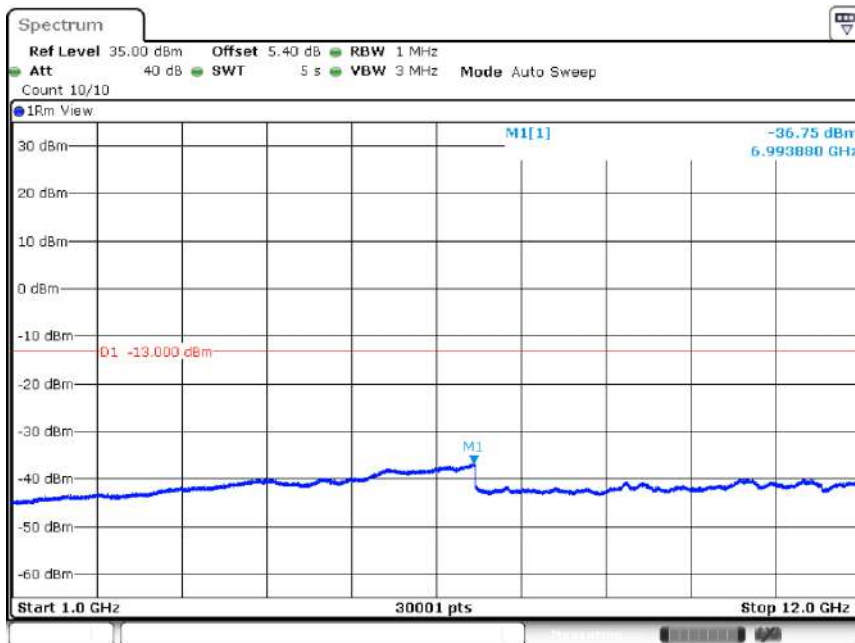
## Band17-10MHz-16QAM-23800-1RB#0-Range2:1000~5000MHz



Date: 16 JUL 2020 02:30:50

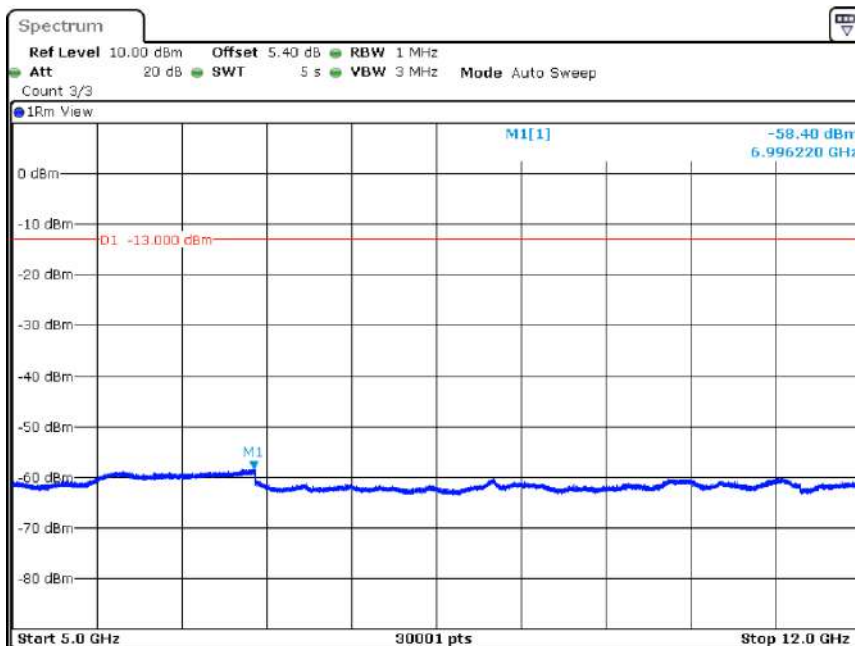


## Band17-10MHz-16QAM-23800-1RB#0-Range2:1000~12000MHz



Date: 10 AUG 2020 22:38:38

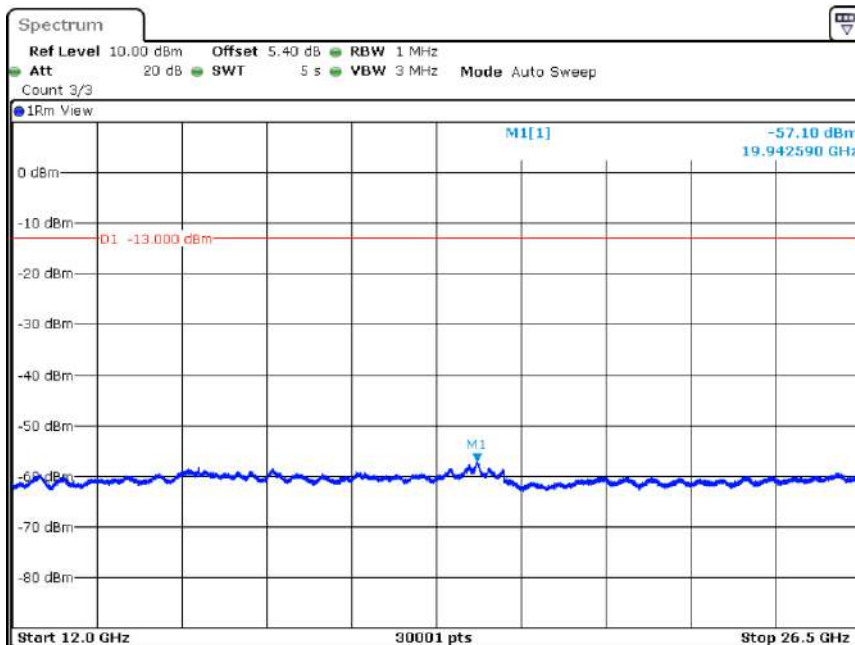
## Band17-10MHz-16QAM-23800-1RB#0-Range3:5000~12000MHz



Date: 16 JUL 2020 02:31:12



## Band17-10MHz-16QAM-23800-1RB#0-Range4:12000~26500MHz



Date: 16 JUL 2020 02:31:33



## 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
74.4282	-61.98	-13.00	48.98	264	115	Vertical
108.1859	-64.69	-13.00	51.69	158	89	Vertical
295.7933	-69.73	-13.00	56.73	196	143	Vertical
1408.8818	-59.61	-13.00	46.61	184	4	Vertical
2592.3185	-57.74	-13.00	44.74	261	234	Vertical
7349.9740	-55.69	-13.00	42.69	164	9	Vertical
43.9687	-64.86	-13.00	51.86	258	7	Horizontal
68.0259	-68.55	-13.00	55.55	215	88	Horizontal
230.9941	-68.68	-13.00	55.68	132	195	Horizontal
1408.8818	-54.94	-13.00	41.94	262	299	Horizontal
2113.8228	-59.74	-13.00	46.74	219	251	Horizontal
7470.0988	-56.22	-13.00	43.22	196	142	Horizontal

#### 7.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
74.5737	-63.40	-13.00	50.40	174	87	Vertical
387.6084	-68.36	-13.00	55.36	185	6	Vertical
1410.8822	-56.91	-13.00	43.91	196	15	Vertical
3000.0000	-56.64	-13.00	43.64	231	192	Vertical
7372.9749	-55.90	-13.00	42.90	262	140	Vertical
17998.1999	-40.56	-13.00	27.56	294	274	Vertical
41.2526	-65.14	-13.00	52.14	285	114	Horizontal
232.1581	-68.98	-13.00	55.98	154	114	Horizontal
1411.2823	-49.68	-13.00	36.68	163	334	Horizontal
2117.0234	-57.75	-13.00	44.75	231	267	Horizontal
7475.5790	-55.83	-13.00	42.83	251	303	Horizontal
16402.7361	-44.10	-13.00	31.10	164	60	Horizontal



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## 7.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
74.8162	-62.22	-13.00	49.22	174	61	Vertical
110.4170	-65.14	-13.00	52.14	185	196	Vertical
250.4435	-71.35	-13.00	58.35	196	8	Vertical
1412.8826	-58.65	-13.00	45.65	231	4	Vertical
2497.8996	-57.68	-13.00	44.68	262	104	Vertical
7353.0541	-55.95	-13.00	42.95	269	168	Vertical
41.9801	-63.95	-13.00	50.95	262	302	Horizontal
67.5894	-68.39	-13.00	55.39	291	302	Horizontal
234.0982	-68.73	-13.00	55.73	184	115	Horizontal
1413.2827	-54.40	-13.00	41.40	231	296	Horizontal
2119.8240	-57.54	-13.00	44.54	251	280	Horizontal
7447.4179	-56.51	-13.00	43.51	164	168	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.





## 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	2.60	0.003667	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	VN	NT	1.30	0.001834	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	VH	NT	2.20	0.003103	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	VL	NT	-4.10	-0.005775	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	VN	NT	1.00	0.001408	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	VH	NT	-3.80	-0.005352	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	VL	NT	-3.50	-0.004923	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	VN	NT	-1.90	-0.002672	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	VH	NT	-4.30	-0.006048	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	VL	NT	-3.10	-0.004372	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	VN	NT	-1.90	-0.002680	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	VH	NT	0.00	0.000000	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	VL	NT	2.50	0.003521	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	VN	NT	2.90	0.004085	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	VH	NT	-2.20	-0.003099	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	VL	NT	-5.00	-0.007032	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	VN	NT	0.90	0.001266	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	VH	NT	1.00	0.001406	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	VL	NT	-0.80	-0.001128	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	VN	NT	2.00	0.002821	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	VH	NT	0.40	0.000564	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	VL	NT	7.60	0.010704	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	VN	NT	-0.50	-0.000704	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	VH	NT	5.60	0.007887	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	VL	NT	3.30	0.004641	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	VN	NT	-0.10	-0.000141	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	VH	NT	4.00	0.005626	±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
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Band17	10MHz	QPSK	23780	50RB#0	NV	-30	-4.10	-0.005783	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	-20	3.50	0.004937	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	0	5.20	0.007334	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	10	-4.10	-0.005783	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	20	1.50	0.002116	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	30	2.30	0.003244	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	40	-2.70	-0.003808	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	50	-1.20	-0.001693	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-30	-2.40	-0.003380	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-20	-1.10	-0.001549	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	0	-4.40	-0.006197	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	10	4.90	0.006901	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	20	-4.30	-0.006056	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	30	3.20	0.004507	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	40	-0.20	-0.000282	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	50	-2.40	-0.003380	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	-30	-1.60	-0.002250	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	-20	3.40	0.004782	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	0	-4.10	-0.005767	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	10	-3.90	-0.005485	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	20	2.00	0.002813	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	30	3.60	0.005063	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	40	-0.80	-0.001125	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	50	2.90	0.004079	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	-30	-2.80	-0.003949	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	-20	-2.70	-0.003808	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	0	1.70	0.002398	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	10	2.90	0.004090	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	20	-0.30	-0.000423	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	30	-0.80	-0.001128	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	40	-3.00	-0.004231	±2.5	PASS
Band17	10MHz	64QAM	23780	50RB#0	NV	50	1.80	0.002539	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	-30	0.50	0.000704	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	-20	-2.70	-0.003803	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	0	-4.20	-0.005915	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	10	3.70	0.005211	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	20	4.10	0.005775	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	30	0.80	0.001127	±2.5	PASS



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Band17	10MHz	64QAM	23790	50RB#0	NV	40	-2.20	-0.003099	±2.5	PASS
Band17	10MHz	64QAM	23790	50RB#0	NV	50	-3.10	-0.004366	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	-30	-3.20	-0.004501	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	-20	-3.00	-0.004219	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	0	-4.40	-0.006188	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	10	-0.70	-0.000985	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	20	1.20	0.001688	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	30	-4.50	-0.006329	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	40	-6.70	-0.009423	±2.5	PASS
Band17	10MHz	64QAM	23800	50RB#0	NV	50	-4.10	-0.005767	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	-30	-0.30	-0.000423	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	-20	1.80	0.002539	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	0	0.90	0.001269	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	10	-0.20	-0.000282	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	20	-3.00	-0.004231	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	30	2.60	0.003667	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	40	-2.30	-0.003244	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	50	-1.40	-0.001975	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	-30	2.80	0.003944	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	-20	-2.30	-0.003239	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	0	-0.30	-0.000423	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	10	-4.00	-0.005634	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	20	1.80	0.002535	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	30	4.40	0.006197	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	40	-2.60	-0.003662	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	50	-3.40	-0.004789	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	-30	-0.40	-0.000563	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	-20	0.70	0.000985	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	0	1.20	0.001688	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	10	1.40	0.001969	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	20	-0.90	-0.001266	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	30	-2.40	-0.003376	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	40	0.50	0.000703	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	50	-1.30	-0.001828	±2.5	PASS

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