



# Appendix B

## E-UTRA Band 5



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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
Band5	1.4MHz	QPSK	20407	1RB#0	23.31	19.76	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	23.46	19.91	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	23.34	19.79	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#0	23.55	20.00	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#1	23.47	19.92	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#3	23.49	19.94	38.45	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	22.40	18.85	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	23.29	19.74	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	23.30	19.75	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	23.36	19.81	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#0	23.30	19.75	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#1	23.41	19.86	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#3	23.49	19.94	38.45	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	22.45	18.90	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	23.40	19.85	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	23.50	19.95	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	23.49	19.94	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#0	23.45	19.90	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#1	23.49	19.94	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#3	23.50	19.95	38.45	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	22.48	18.93	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	22.03	18.48	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	22.28	18.73	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	22.11	18.56	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#1	22.52	18.97	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#0	22.42	18.87	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#3	22.60	19.05	38.45	PASS



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Band5	1.4MHz	16QAM	20407	6RB#0	21.67	18.12	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	22.16	18.61	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	22.12	18.57	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	22.16	18.61	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#3	22.52	18.97	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#0	22.38	18.83	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#1	22.51	18.96	38.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	21.35	17.80	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	21.98	18.43	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	21.95	18.40	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	22.09	18.54	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#0	22.65	19.10	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#1	22.64	19.09	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#3	22.67	19.12	38.45	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	21.64	18.09	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#8	23.21	19.66	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#14	23.29	19.74	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#0	23.52	19.97	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#0	22.33	18.78	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#4	22.43	18.88	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#7	22.34	18.79	38.45	PASS
Band5	3MHz	QPSK	20415	15RB#0	22.45	18.90	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#0	23.52	19.97	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#14	23.46	19.91	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#8	23.33	19.78	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#7	22.38	18.83	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#0	22.47	18.92	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#4	22.38	18.83	38.45	PASS
Band5	3MHz	QPSK	20525	15RB#0	22.56	19.01	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#8	23.39	19.84	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#0	23.49	19.94	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#14	23.47	19.92	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#0	22.28	18.73	38.45	PASS



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Band5	3MHz	QPSK	20635	8RB#7	22.48	18.93	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#4	22.47	18.92	38.45	PASS
Band5	3MHz	QPSK	20635	15RB#0	22.45	18.90	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#14	21.98	18.43	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#0	22.14	18.59	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#8	22.08	18.53	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#7	21.40	17.85	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#4	21.27	17.72	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#0	21.37	17.82	38.45	PASS
Band5	3MHz	16QAM	20415	15RB#0	21.42	17.87	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#14	22.01	18.46	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#0	22.12	18.57	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#8	22.02	18.47	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#7	21.29	17.74	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#0	21.25	17.70	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#4	21.20	17.65	38.45	PASS
Band5	3MHz	16QAM	20525	15RB#0	21.34	17.79	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#8	22.14	18.59	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#0	22.07	18.52	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#14	22.11	18.56	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#0	21.07	17.52	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#4	21.34	17.79	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#7	21.24	17.69	38.45	PASS
Band5	3MHz	16QAM	20635	15RB#0	21.36	17.81	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#0	23.24	19.69	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#12	23.14	19.59	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#24	23.29	19.74	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#0	22.36	18.81	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#6	22.41	18.86	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#13	22.31	18.76	38.45	PASS
Band5	5MHz	QPSK	20425	25RB#0	22.31	18.76	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#0	23.19	19.64	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#24	23.40	19.85	38.45	PASS



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Band5	5MHz	QPSK	20525	1RB#12	23.10	19.55	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#0	22.38	18.83	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#6	22.34	18.79	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#13	22.51	18.96	38.45	PASS
Band5	5MHz	QPSK	20525	25RB#0	22.44	18.89	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#24	23.38	19.83	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#0	23.31	19.76	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#12	23.23	19.68	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#0	22.24	18.69	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#6	22.38	18.83	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#13	22.49	18.94	38.45	PASS
Band5	5MHz	QPSK	20625	25RB#0	22.30	18.75	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#0	22.03	18.48	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#12	22.62	19.07	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#24	21.88	18.33	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#6	21.42	17.87	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#0	21.42	17.87	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#13	21.36	17.81	38.45	PASS
Band5	5MHz	16QAM	20425	25RB#0	21.32	17.77	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#0	22.04	18.49	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#12	22.50	18.95	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#24	21.86	18.31	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#13	21.05	17.50	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#0	21.39	17.84	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#6	21.39	17.84	38.45	PASS
Band5	5MHz	16QAM	20525	25RB#0	21.31	17.76	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#12	22.56	19.01	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#0	21.81	18.26	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#24	22.11	18.56	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#0	21.31	17.76	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#6	21.20	17.65	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#13	21.49	17.94	38.45	PASS
Band5	5MHz	16QAM	20625	25RB#0	21.31	17.76	38.45	PASS



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Band5	10MHz	QPSK	20450	1RB#49	23.33	19.78	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#24	23.22	19.67	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#0	23.47	19.92	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#0	22.50	18.95	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#12	22.38	18.83	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#25	22.40	18.85	38.45	PASS
Band5	10MHz	QPSK	20450	50RB#0	22.29	18.74	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#0	23.37	19.82	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#49	23.22	19.67	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#24	23.55	20.00	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#25	22.53	18.98	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#0	22.64	19.09	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#12	22.43	18.88	38.45	PASS
Band5	10MHz	QPSK	20525	50RB#0	22.45	18.90	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#24	23.51	19.96	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#0	23.23	19.68	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#49	23.59	20.04	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#0	22.34	18.79	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#25	22.43	18.88	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#12	22.31	18.76	38.45	PASS
Band5	10MHz	QPSK	20600	50RB#0	22.34	18.79	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#49	22.14	18.59	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#0	22.20	18.65	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#24	22.04	18.49	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#25	21.39	17.84	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#12	21.23	17.68	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#0	21.40	17.85	38.45	PASS
Band5	10MHz	16QAM	20450	50RB#0	21.31	17.76	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#49	21.97	18.42	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#0	22.18	18.63	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#24	22.19	18.64	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#25	21.58	18.03	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#0	21.46	17.91	38.45	PASS



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Band5	10MHz	16QAM	20525	25RB#12	21.43	17.88	38.45	PASS
Band5	10MHz	16QAM	20525	50RB#0	21.37	17.82	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#24	22.26	18.71	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#0	22.05	18.50	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#49	22.10	18.55	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#0	21.47	17.92	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#12	21.42	17.87	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#25	21.22	17.67	38.45	PASS
Band5	10MHz	16QAM	20600	50RB#0	21.45	17.90	38.45	PASS

**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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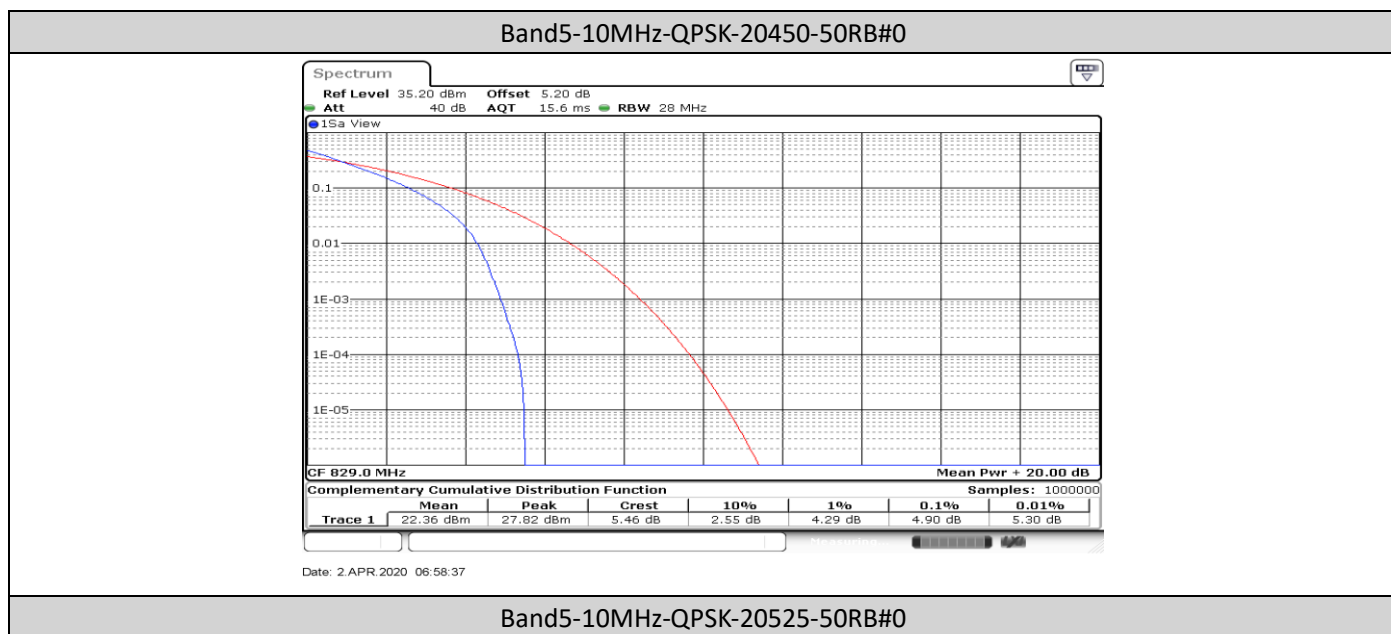


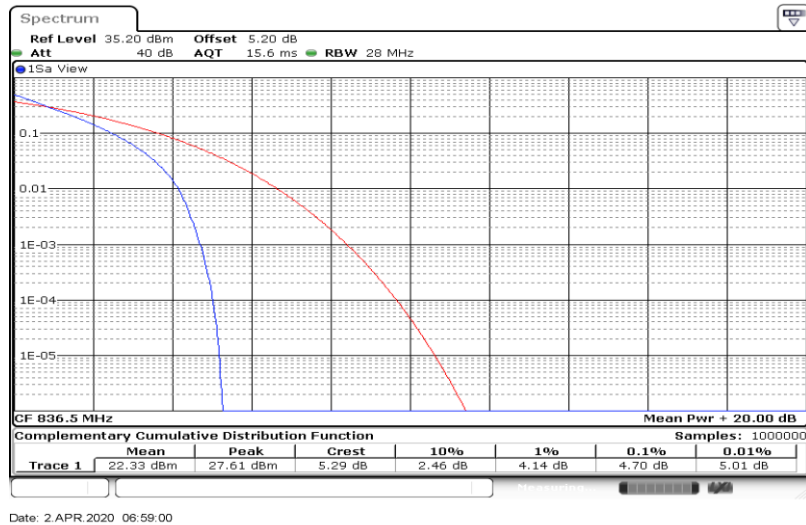
## 2. Peak-to-Average Ratio (CCDF)

### 2.1. Test Result

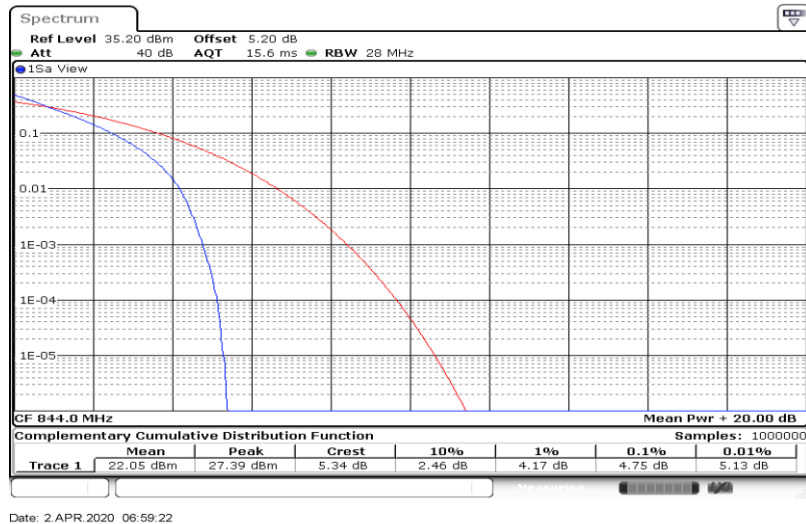
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	4.90	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	4.70	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	4.75	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	5.74	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	5.57	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	5.59	13	PASS

### 2.2. Test Plots





Band5-10MHz-QPSK-20600-50RB#0

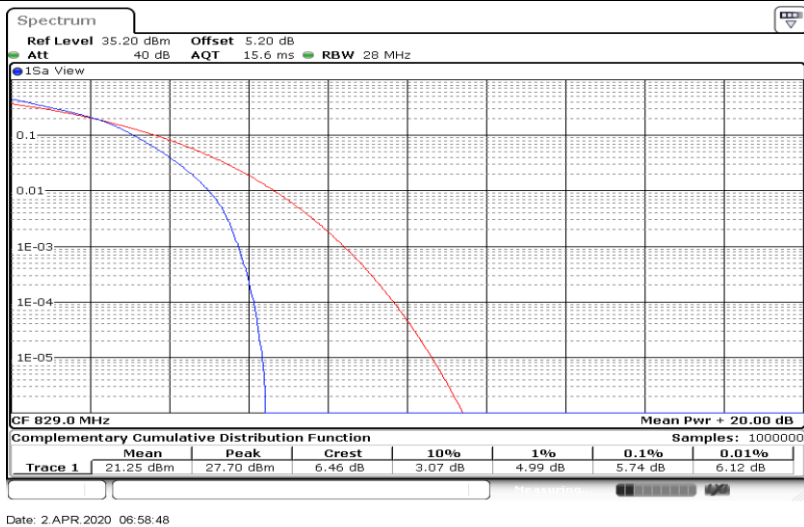


Band5-10MHz-16QAM-20450-50RB#0

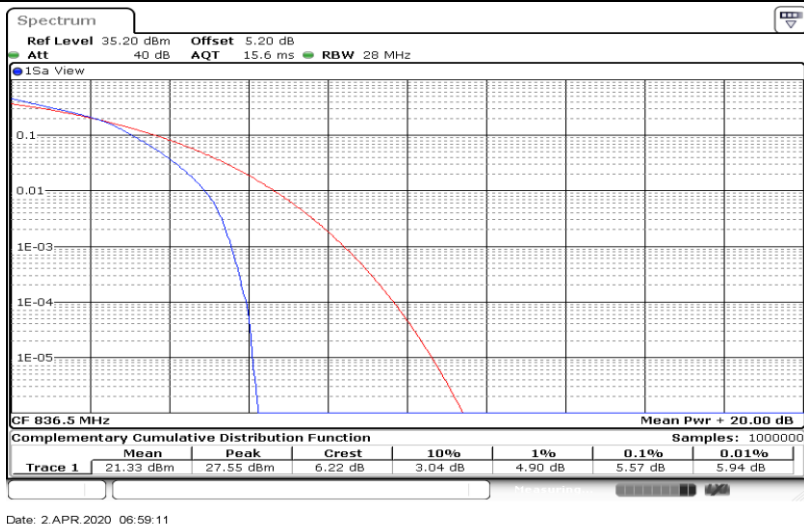


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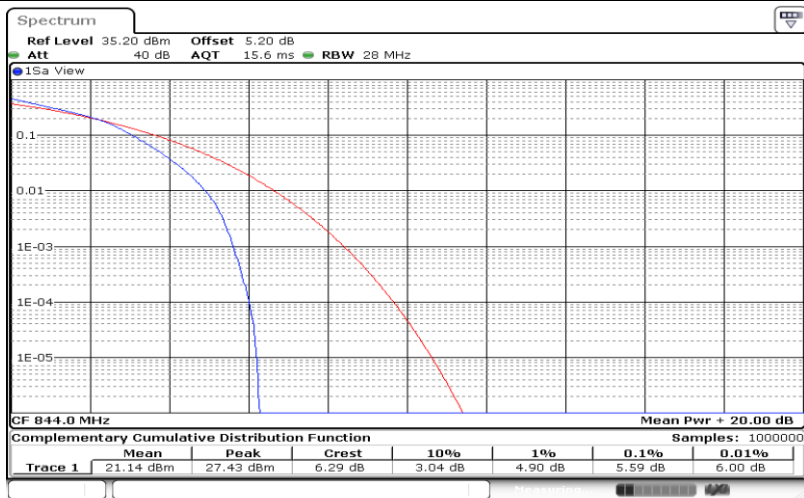


Band5-10MHz-16QAM-20525-50RB#0



Band5-10MHz-16QAM-20600-50RB#0





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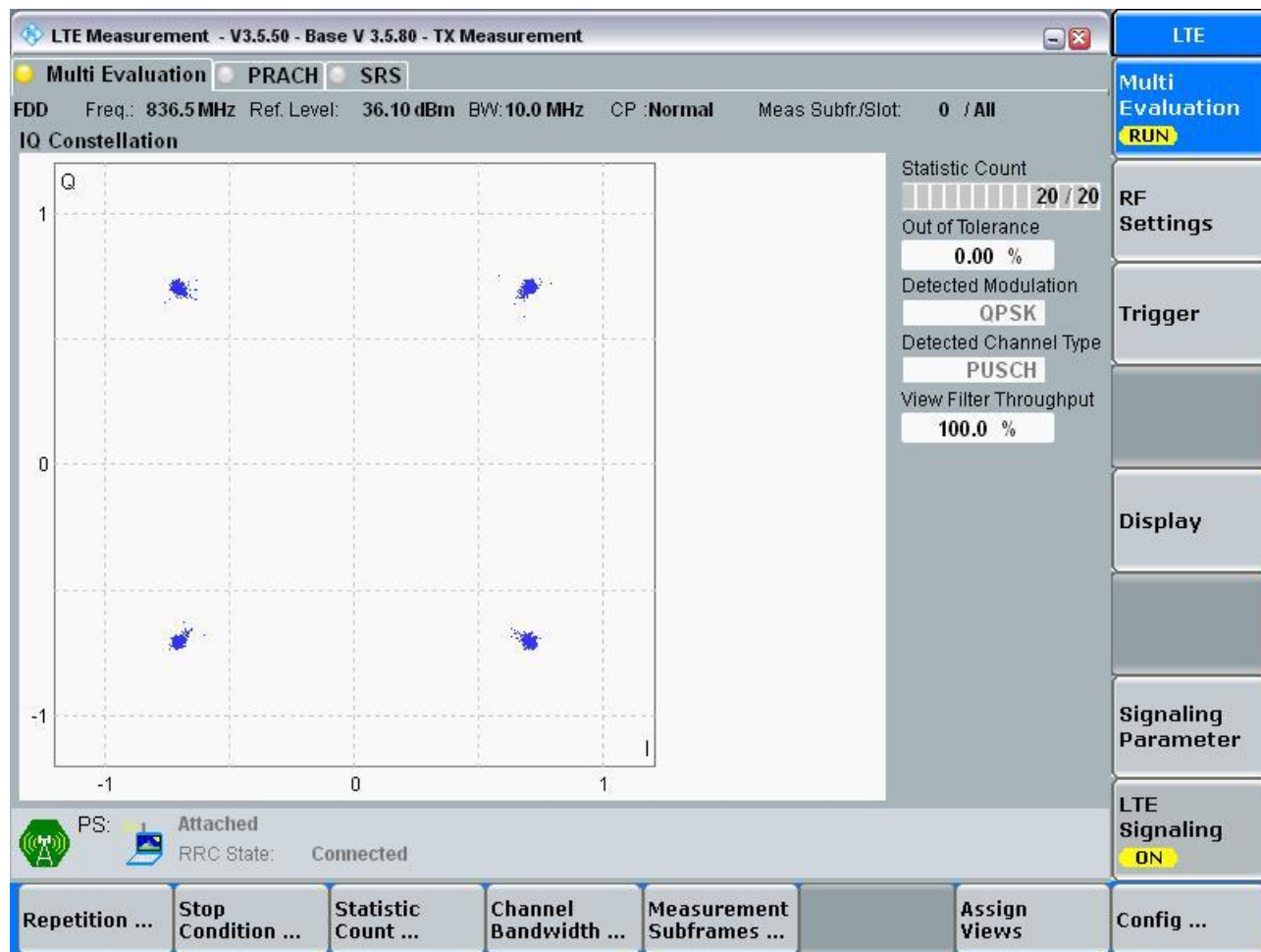
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### 3. Modulation Characteristics

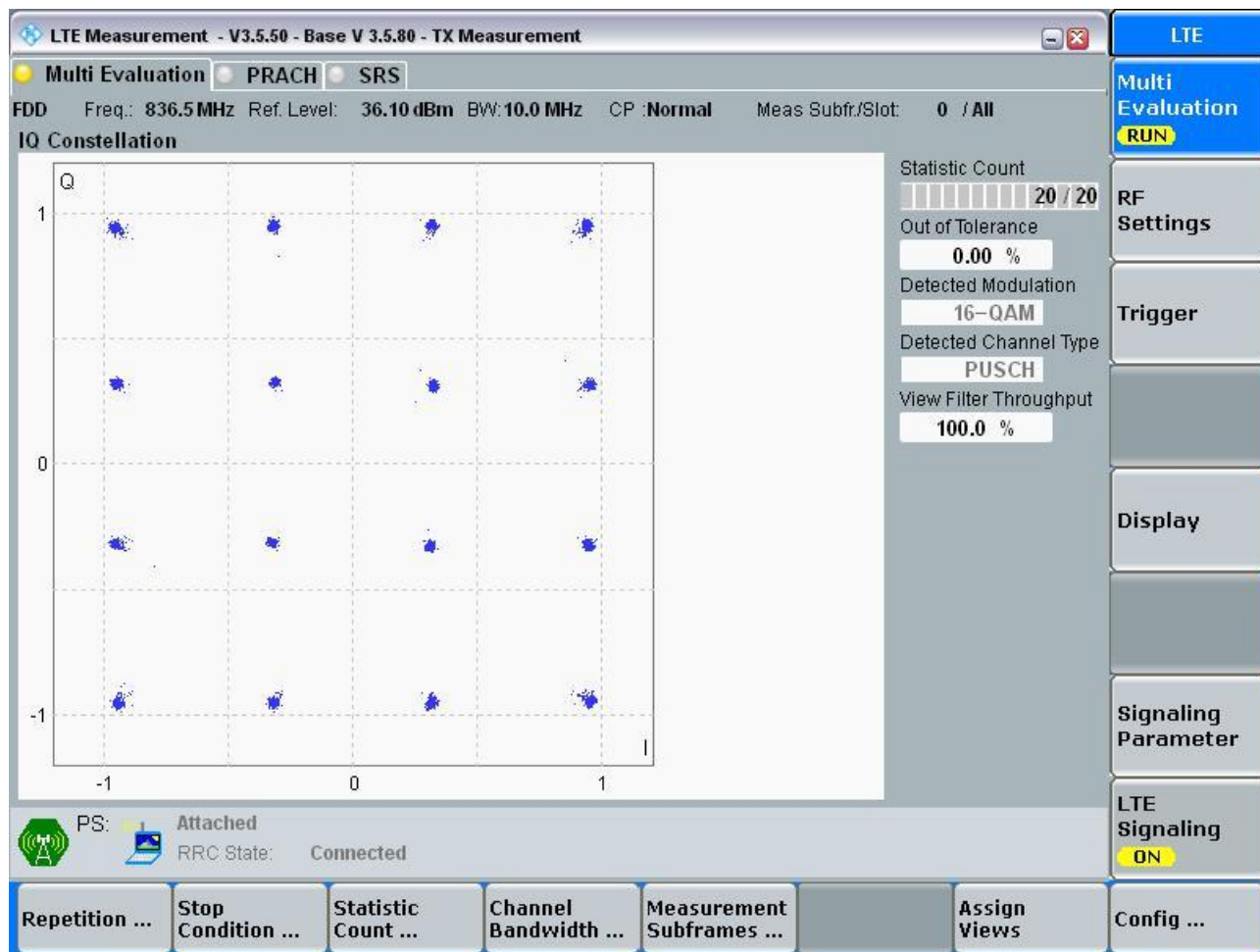
#### 3.1. Test Mode = LTE /TM1 10MHz

##### 3.1.1. Test Channel = MCH



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

### 3.2.1. Test Channel = MCH





## 4. 26dB Bandwidth and Occupied Bandwidth

### 4.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.094	1.296	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.094	1.290	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.094	1.296	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.088	1.287	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.088	1.281	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.091	1.281	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.697	2.994	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.697	2.994	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.697	2.994	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.685	2.976	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.685	2.970	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.685	2.964	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.466	4.920	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.476	4.920	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.466	4.910	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.476	4.960	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.486	4.950	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.486	4.950	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.911	9.700	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.911	9.660	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.891	9.720	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.911	9.720	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.911	9.700	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.911	9.740	PASS



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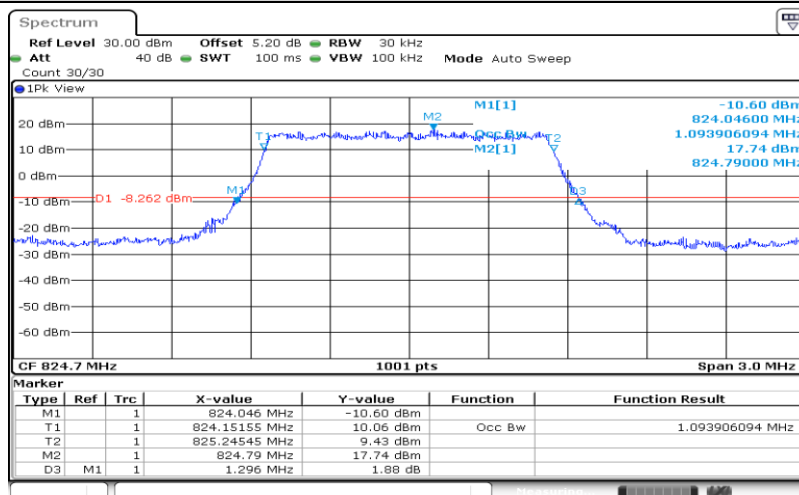
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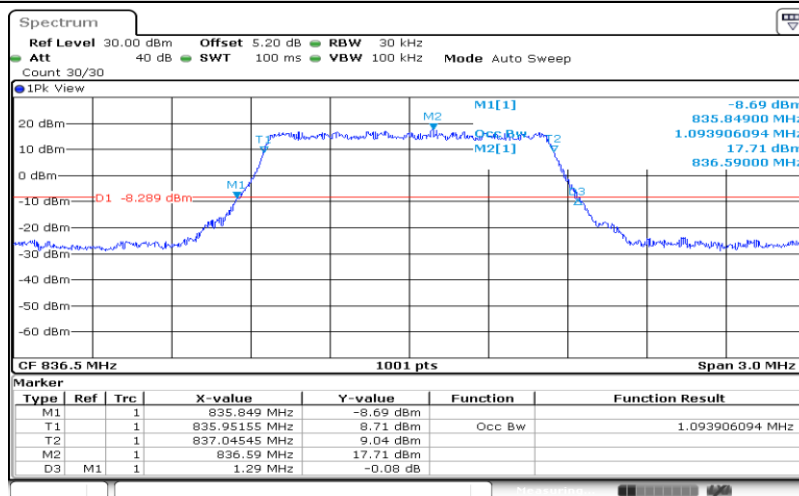
## 4.2. Test Plots

Band5-1.4MHz-QPSK-20407-6RB#0-1.094



Date: 2 APR 2020 06:32:42

Band5-1.4MHz-QPSK-20525-6RB#0-1.094



Date: 2 APR 2020 06:33:07

Band5-1.4MHz-QPSK-20643-6RB#0-1.094

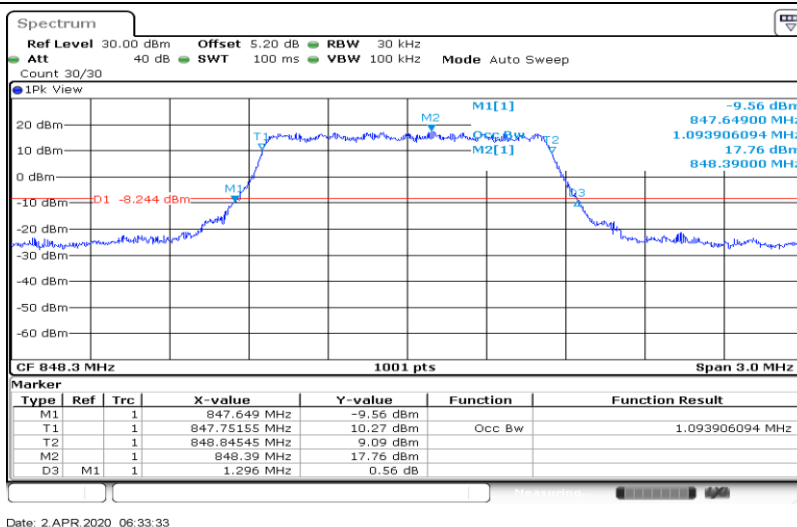


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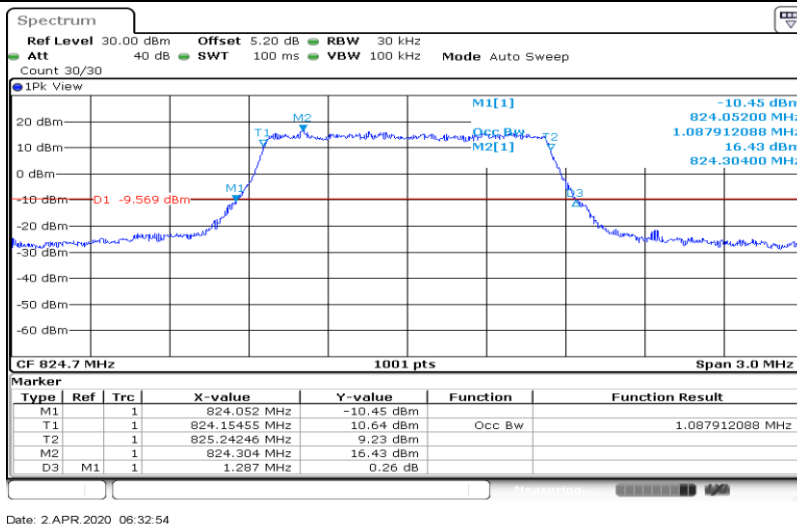
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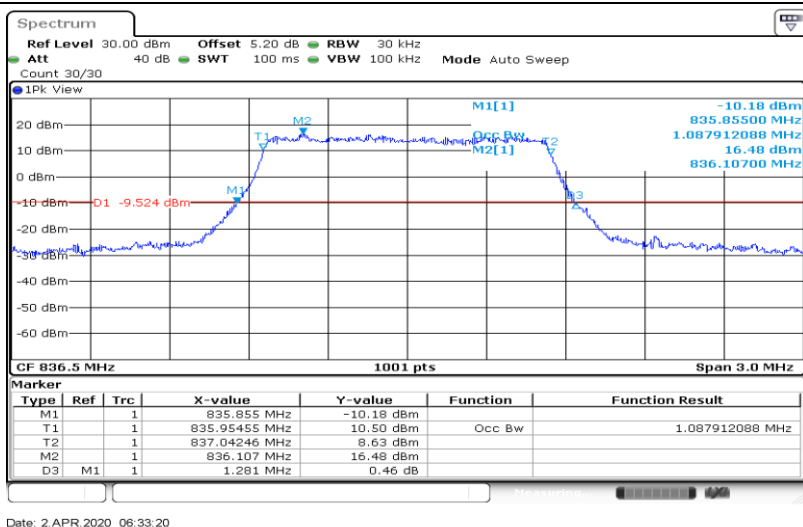


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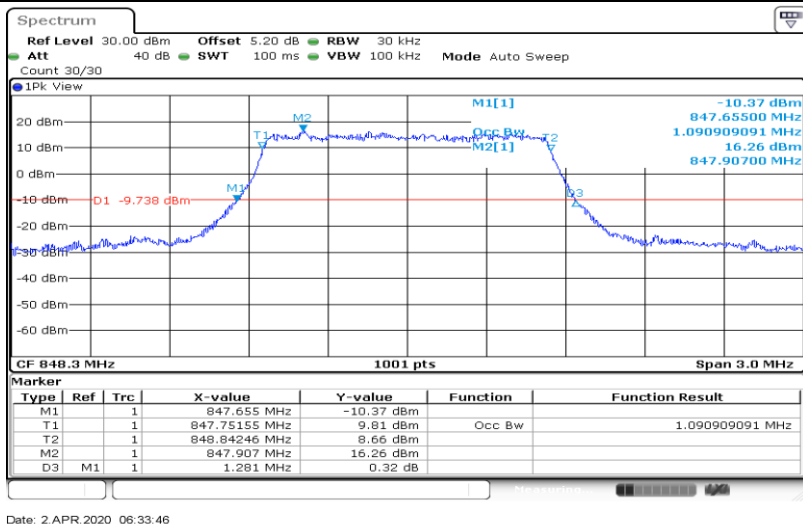


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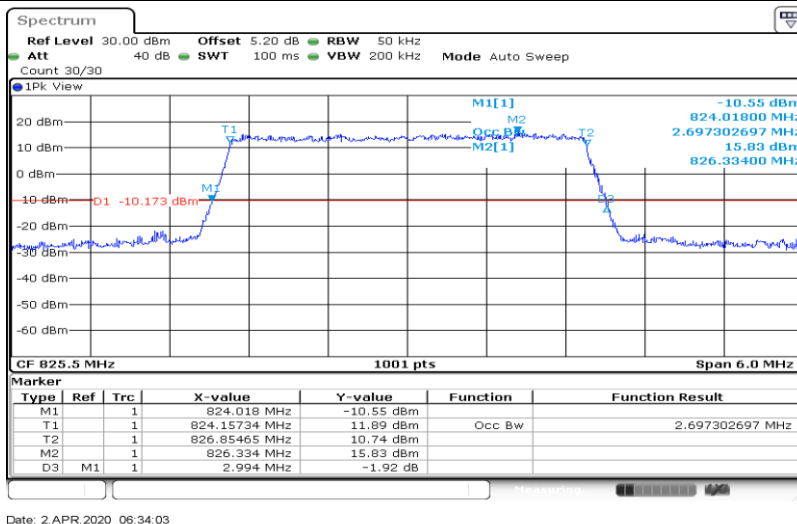


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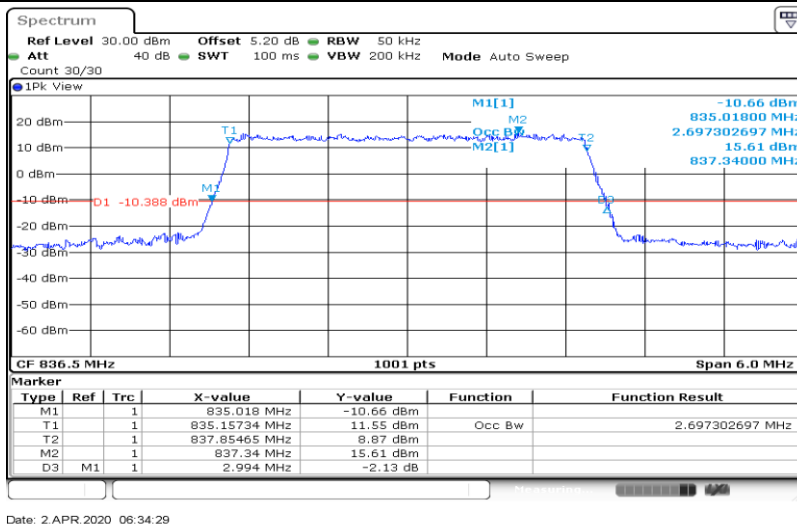


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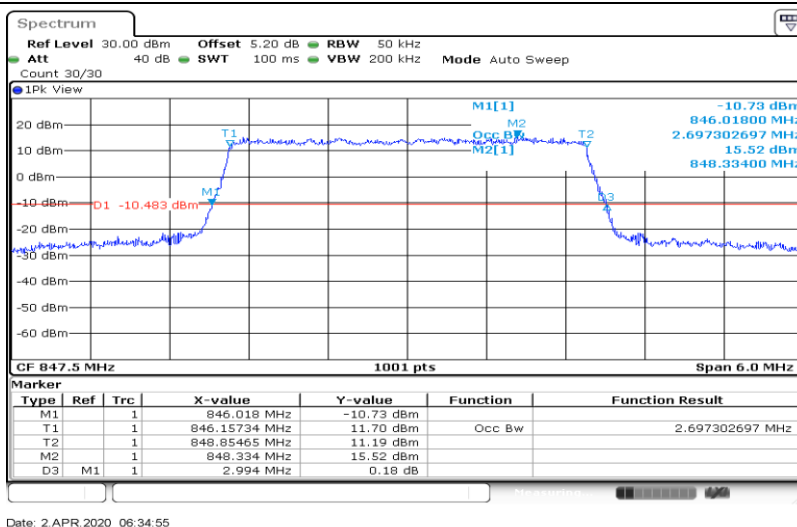


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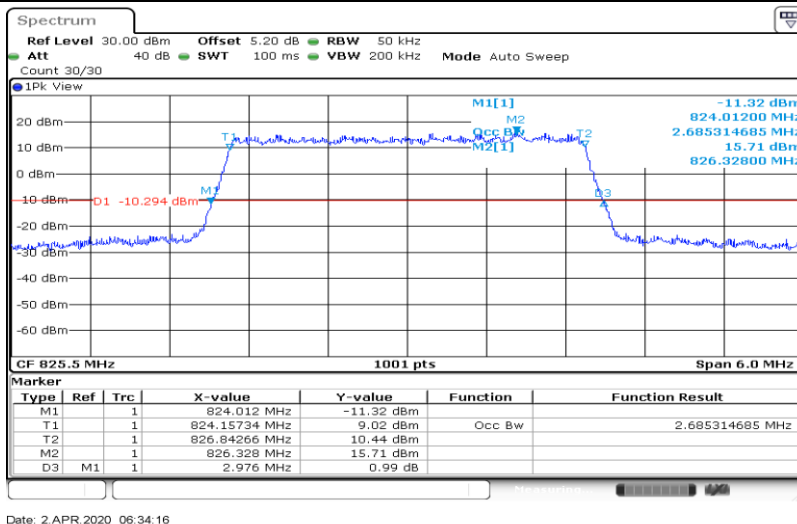


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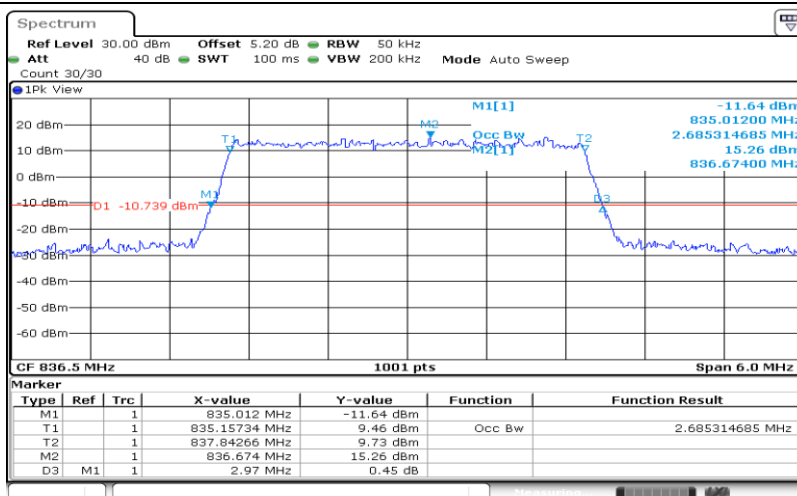
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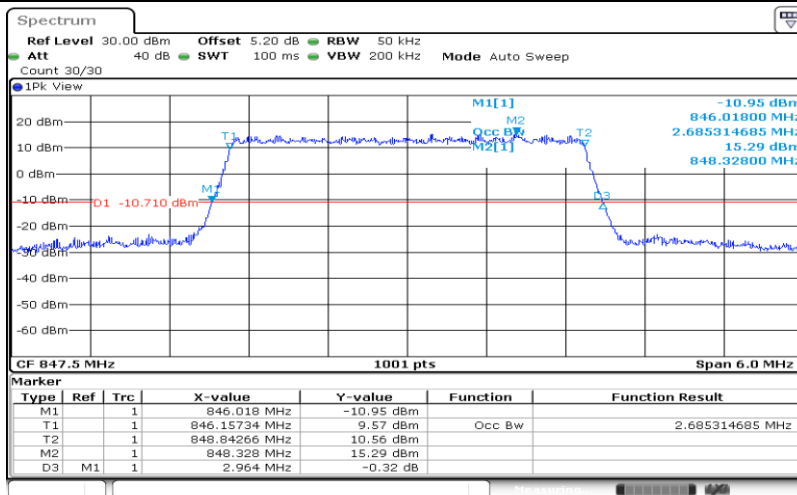






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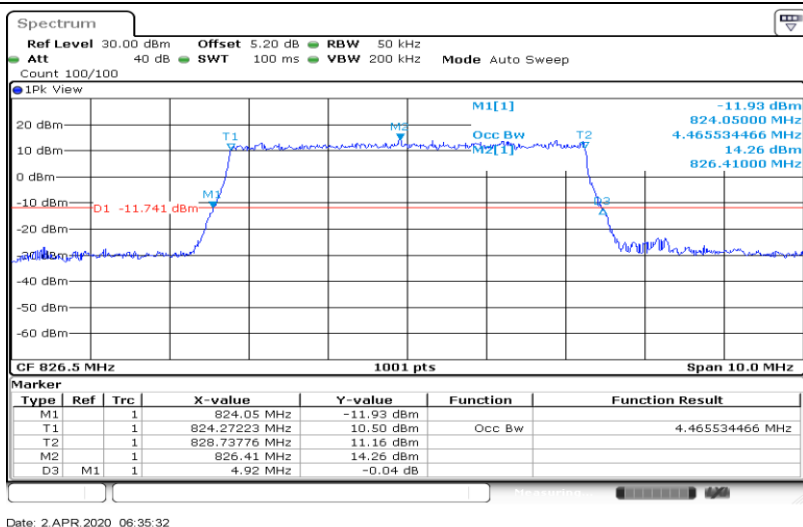
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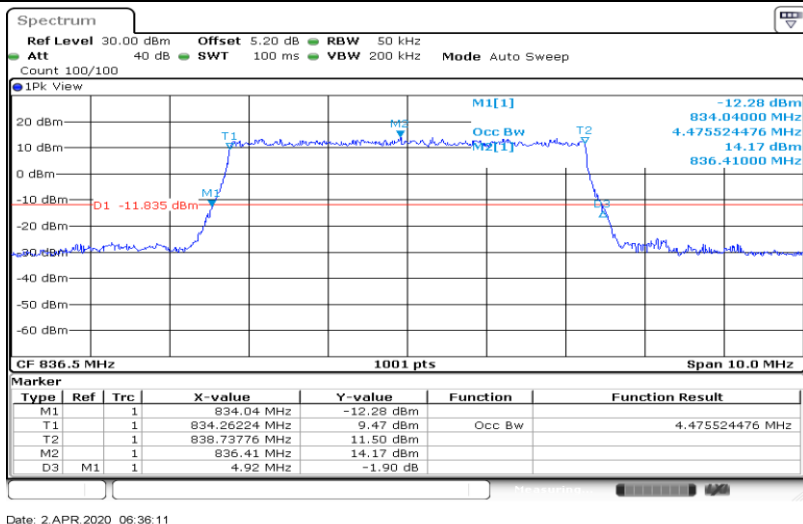
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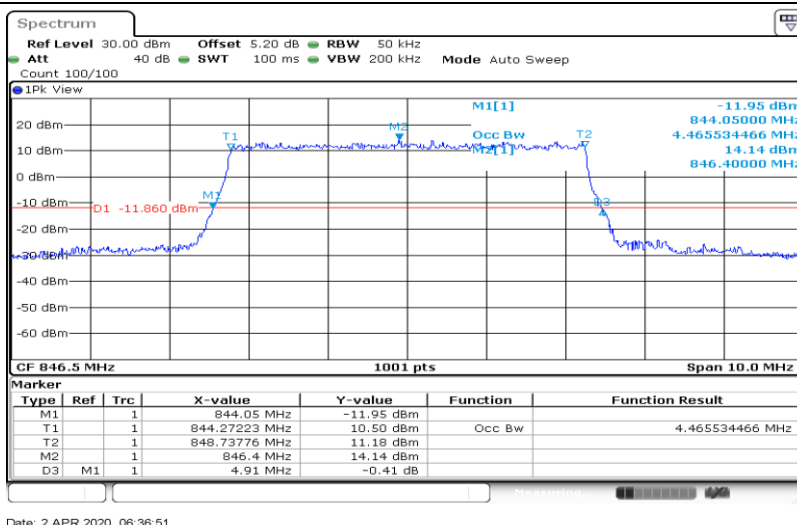


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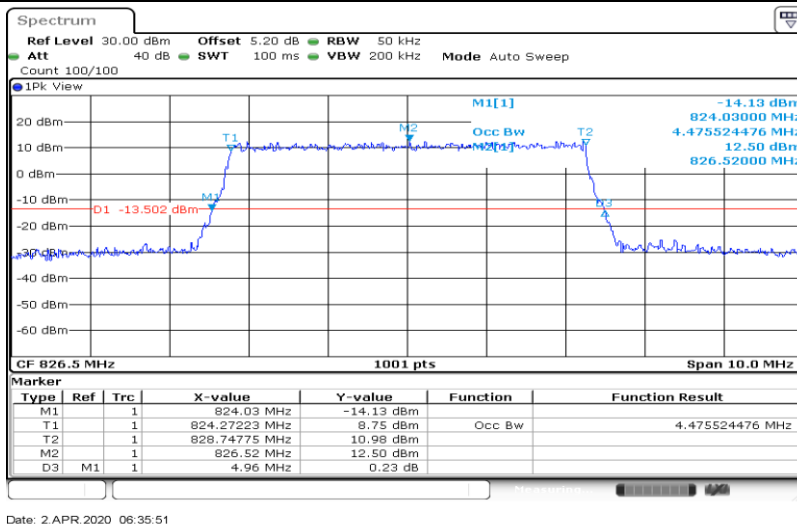


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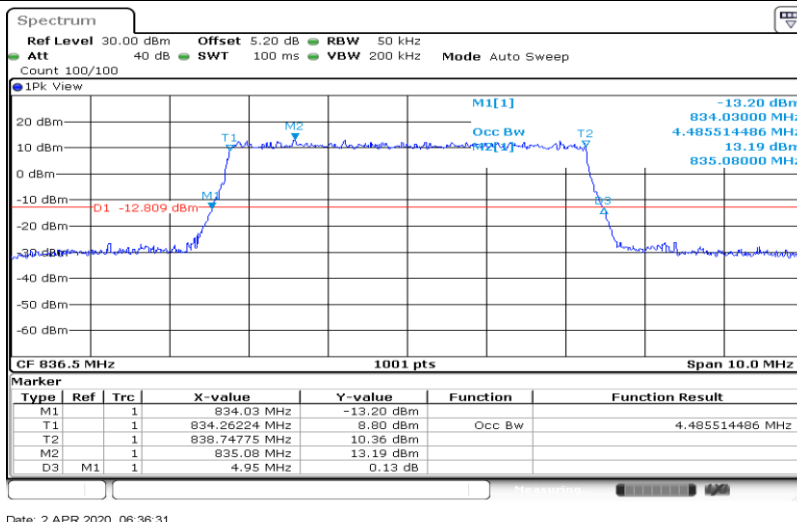


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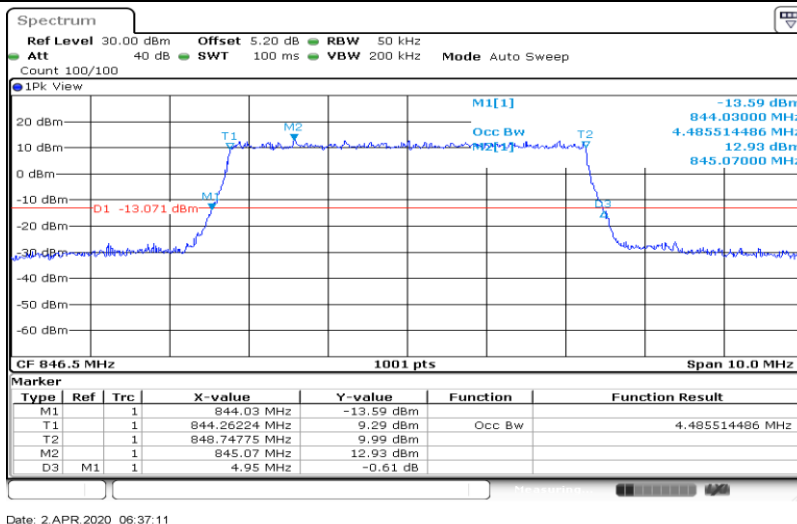


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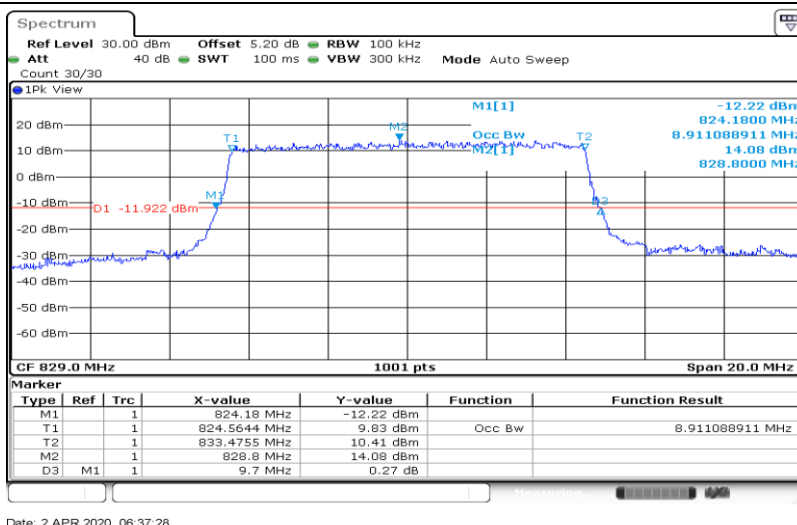
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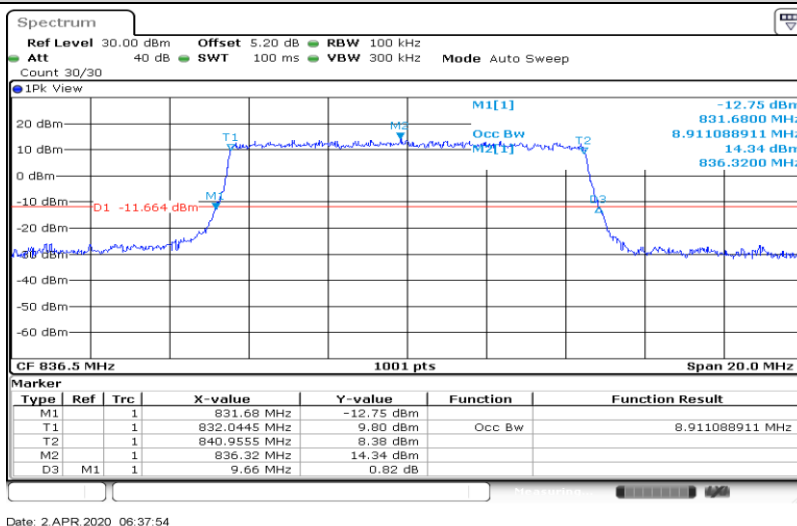
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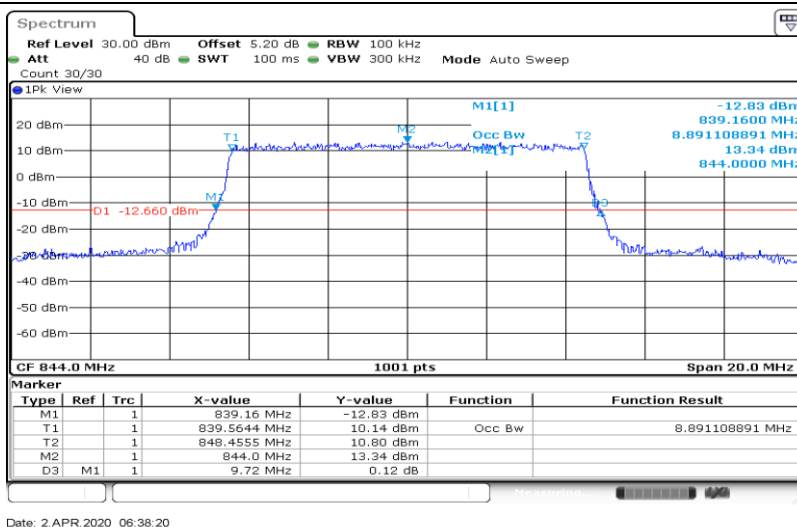


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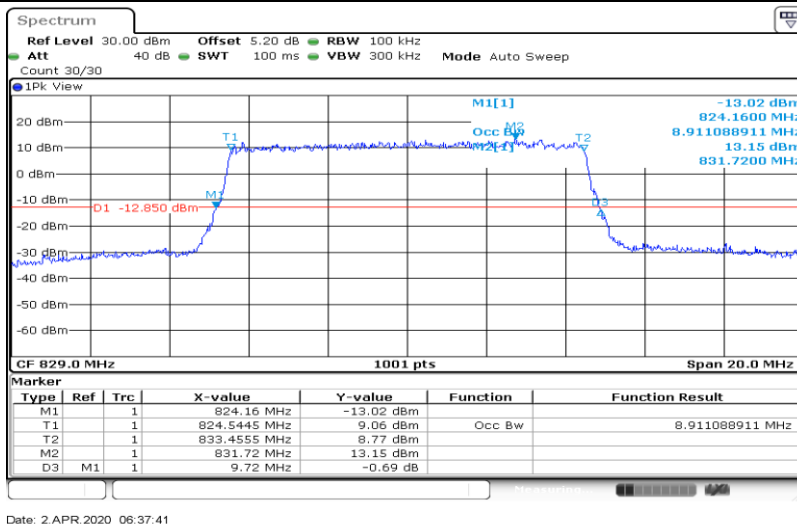


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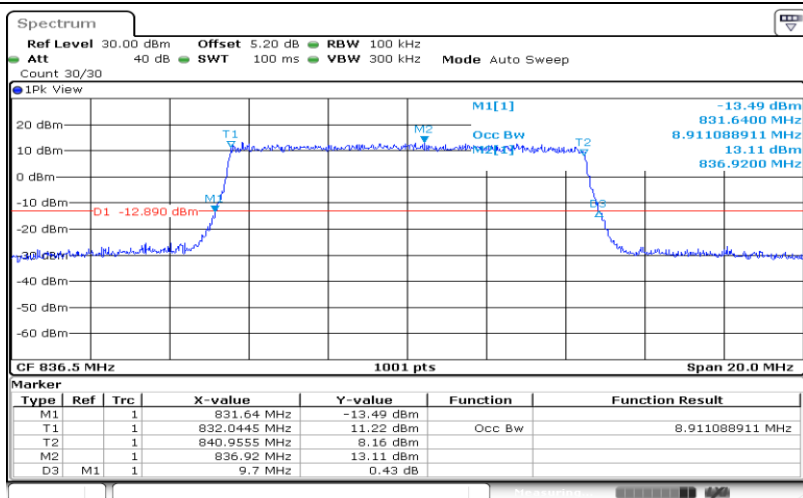


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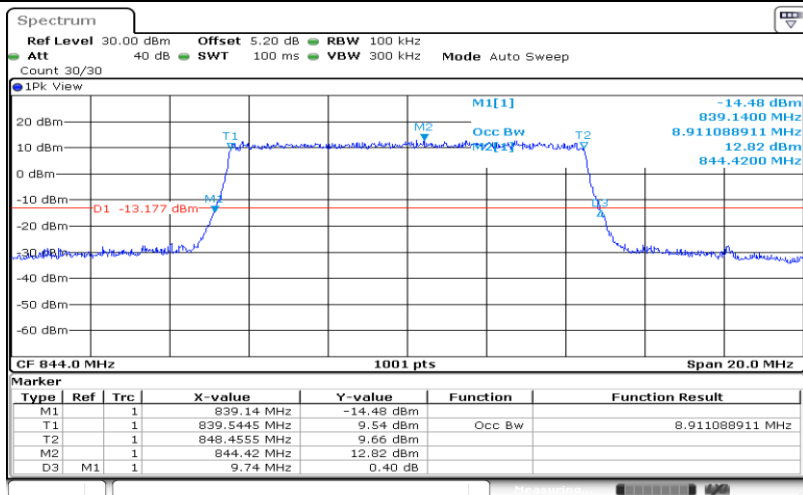
## Band5-10MHz-16QAM-20525-50RB#0-8.911





Date: 2 APR 2020 06:38:07

## Band5-10MHz-16QAM-20600-50RB#0-8.911



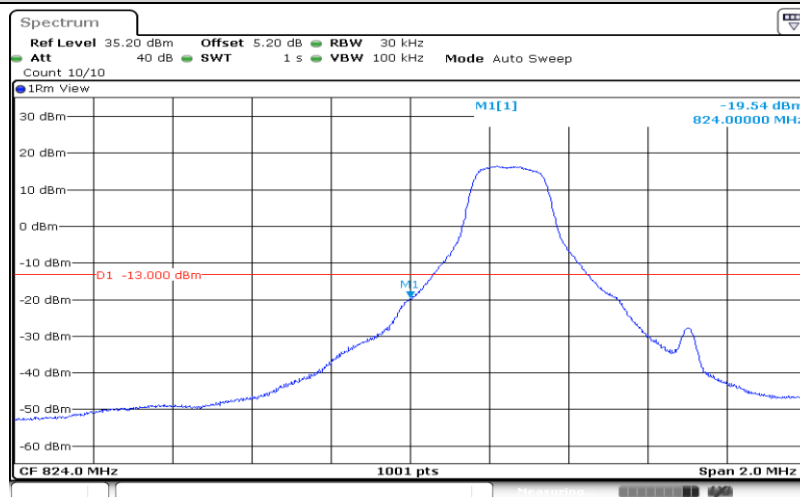
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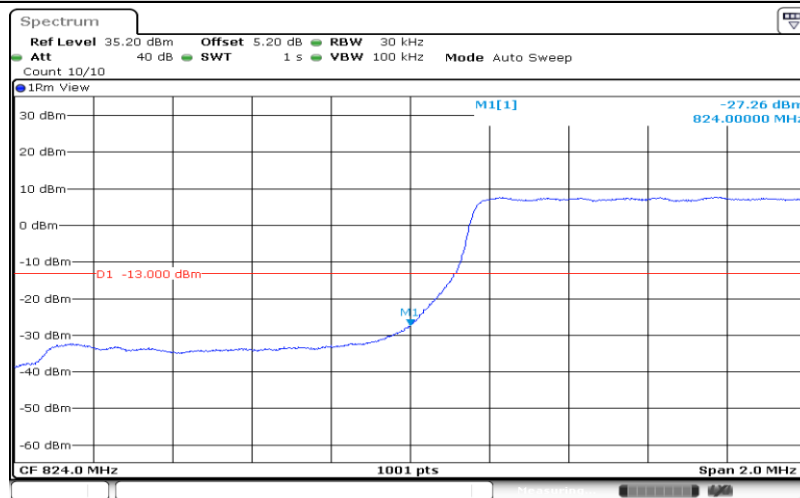
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### 5.1. Test Plots

Band5-1.4MHz-QPSK-20407-1RB#0



Band5-1.4MHz-QPSK-20407-6RB#0



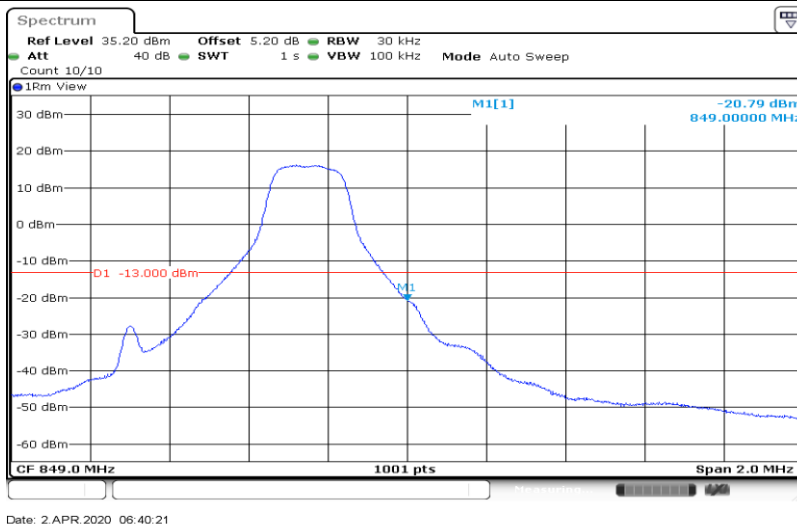
Band5-1.4MHz-QPSK-20643-1RB#5



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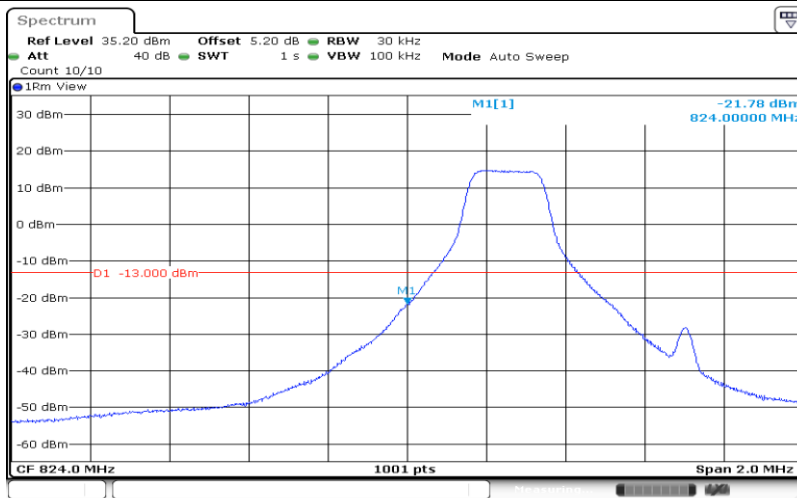


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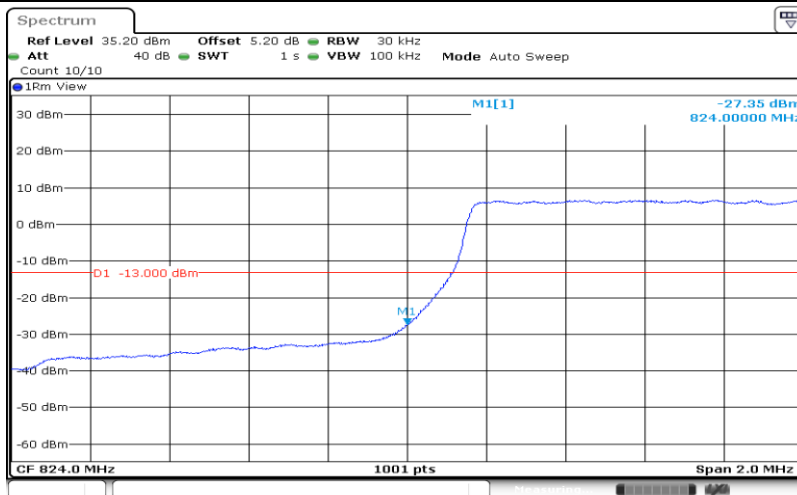
Band5-1.4MHz-16QAM-20407-1RB#0





Date: 2 APR 2020 06:39:17

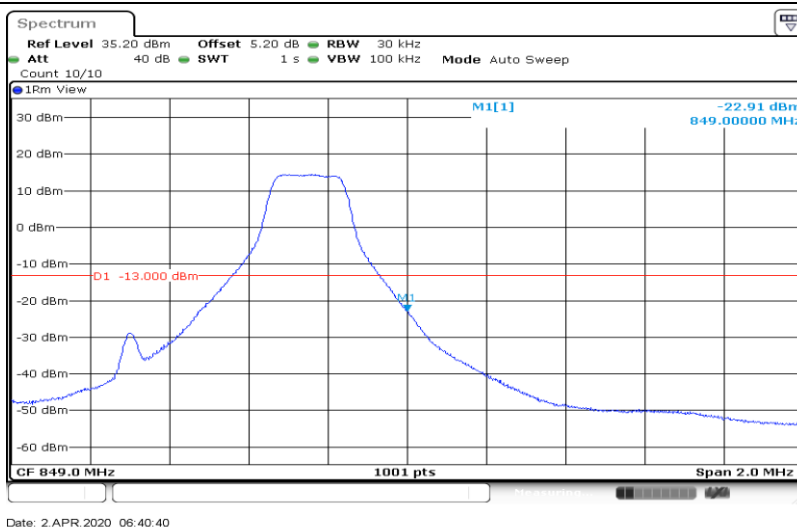
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Date: 2 APR 2020 06:39:57

## Band5-1.4MHz-16QAM-20643-1RB#5



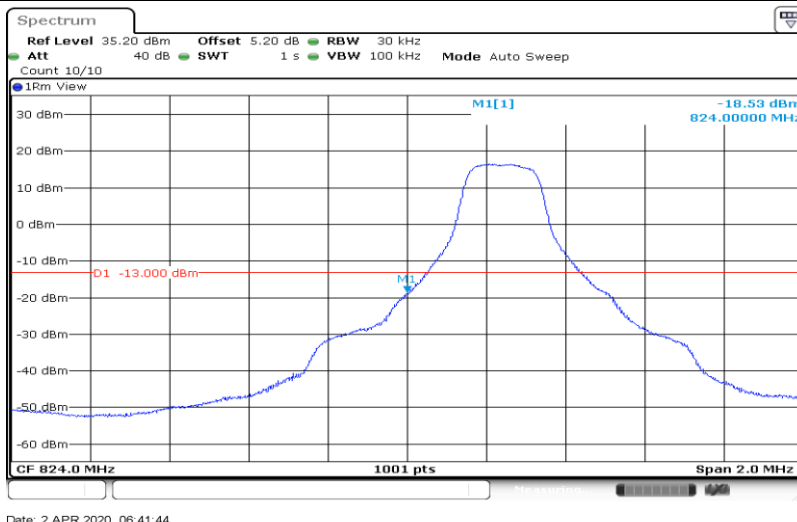


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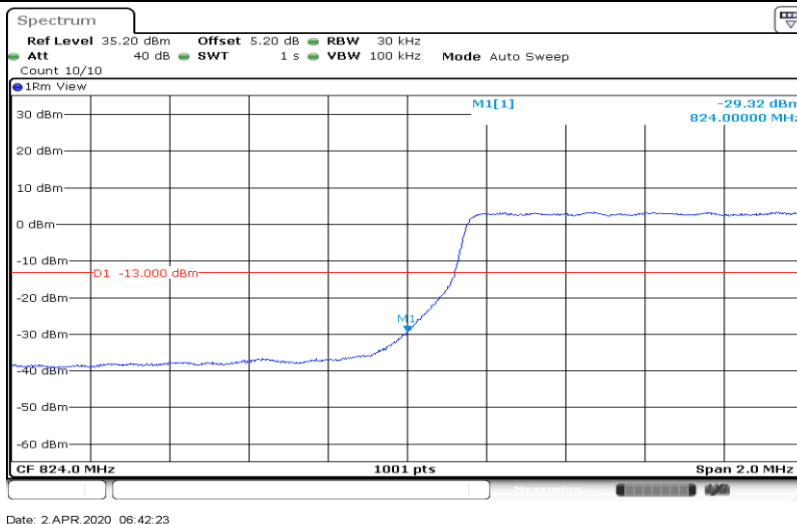


Band5-3MHz-QPSK-20415-1RB#0





**Band5-3MHz-QPSK-20415-15RB#0**



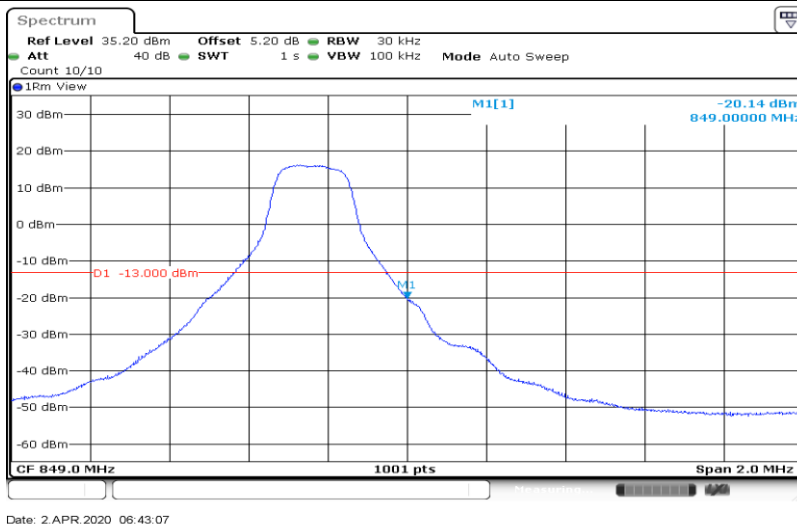
**Band5-3MHz-QPSK-20635-1RB#14**



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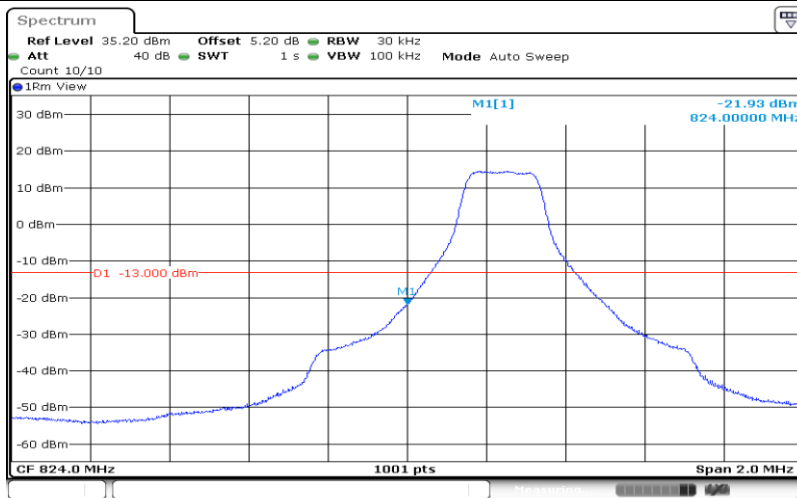


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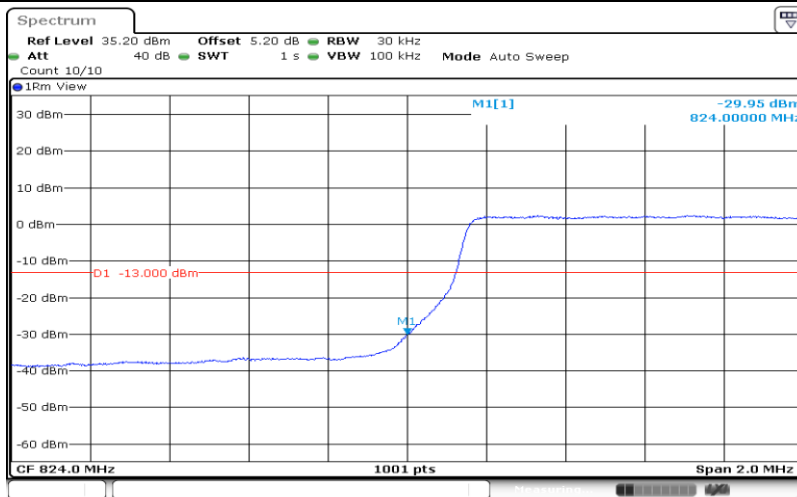


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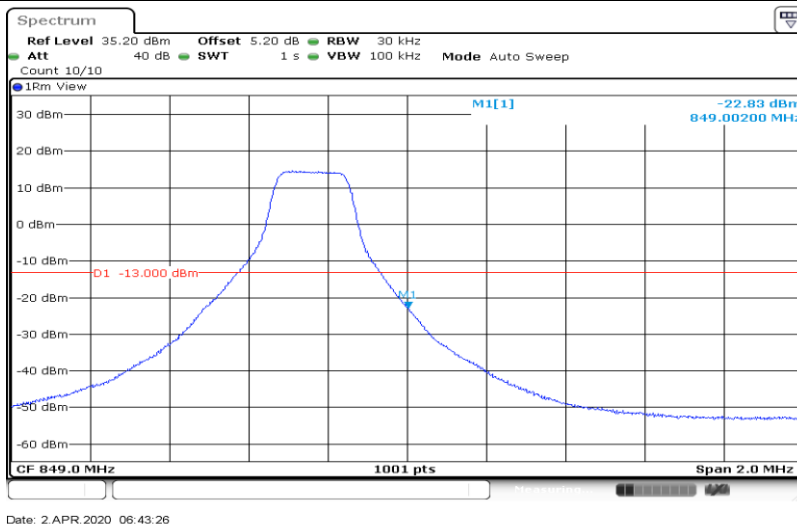


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Band5-3MHz-16QAM-20635-1RB#14



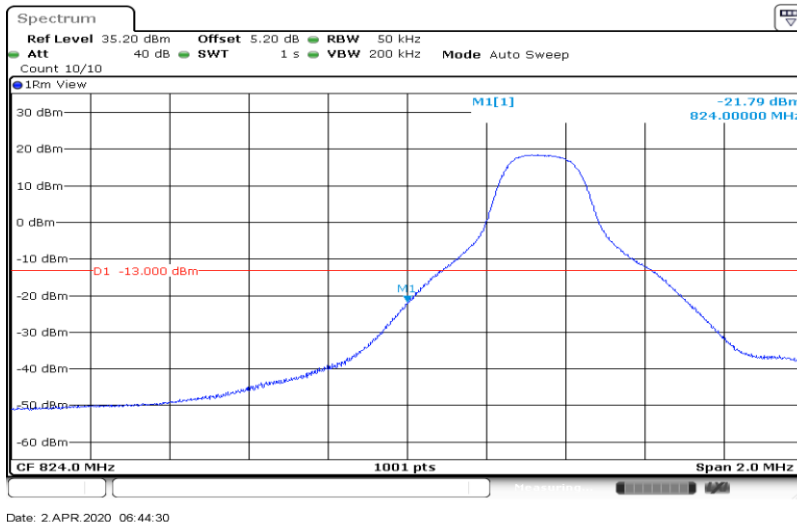


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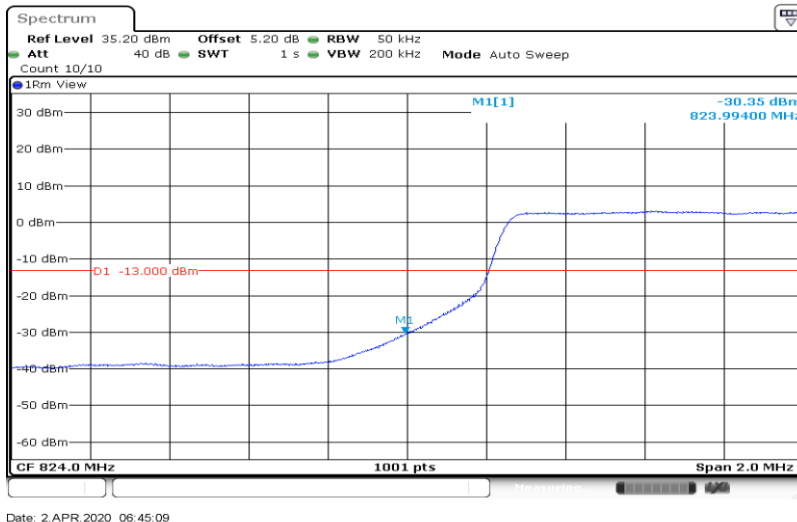


Band5-5MHz-QPSK-20425-1RB#0





Band5-5MHz-QPSK-20425-25RB#0



Band5-5MHz-QPSK-20625-1RB#24





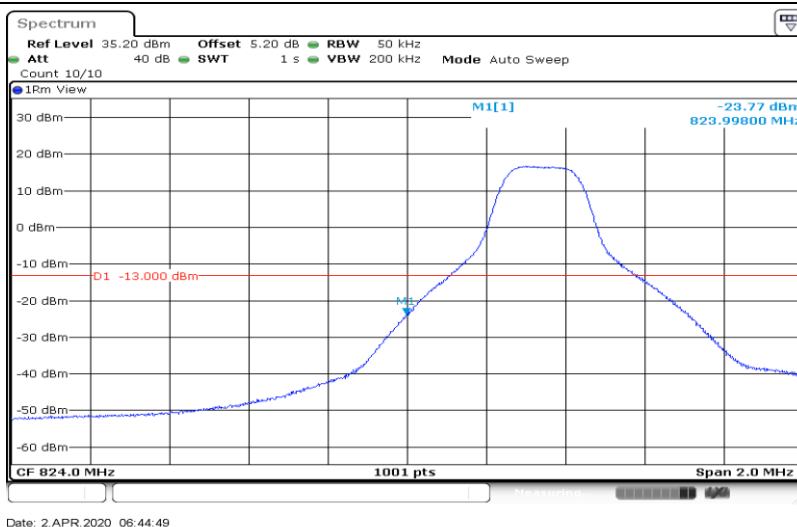


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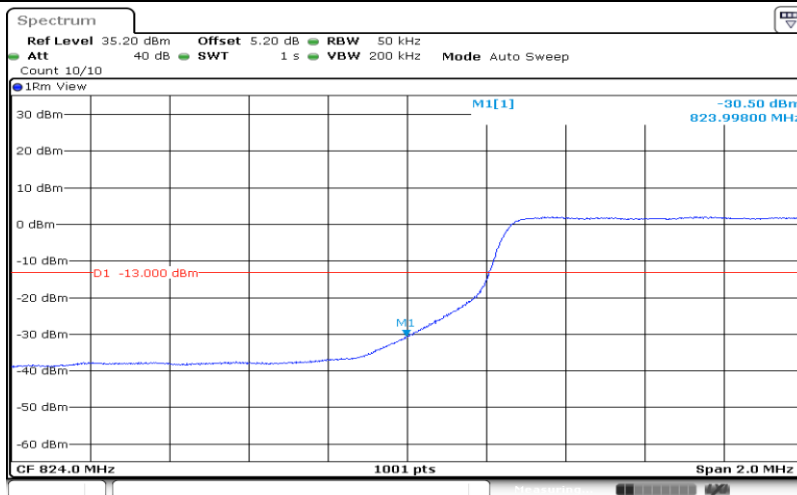
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Date: 2 APR 2020 06:44:49

Band5-5MHz-16QAM-20425-25RB#0



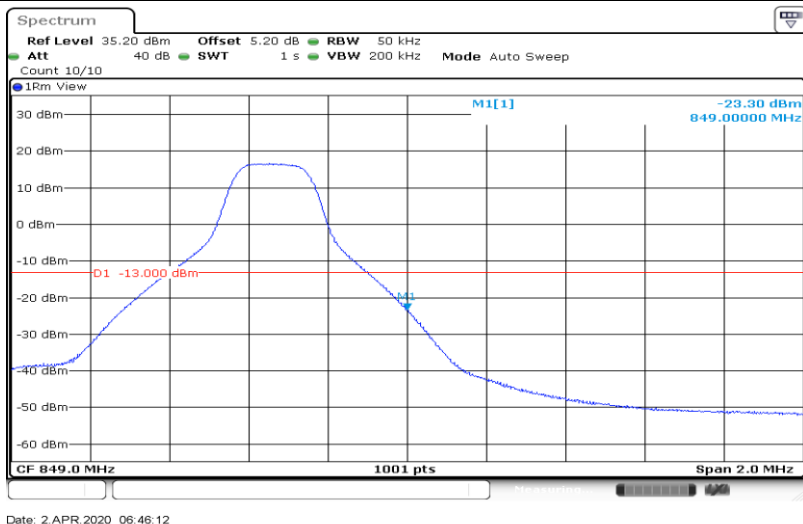
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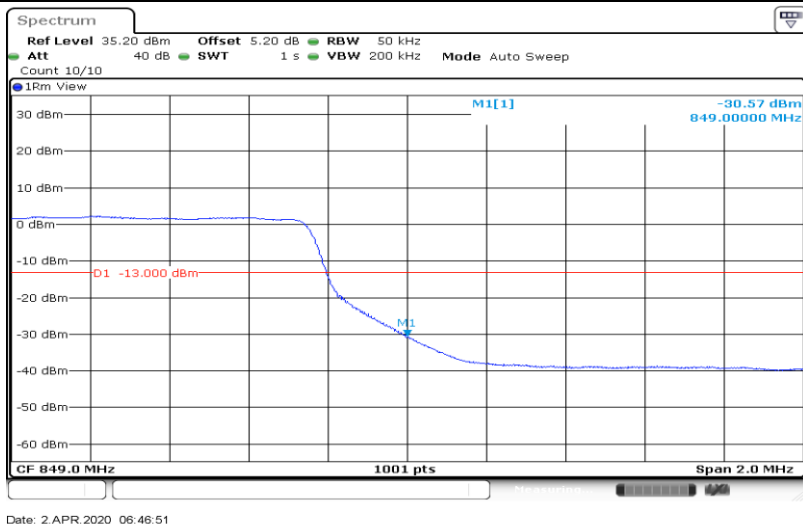


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Band5-5MHz-16QAM-20625-25RB#0



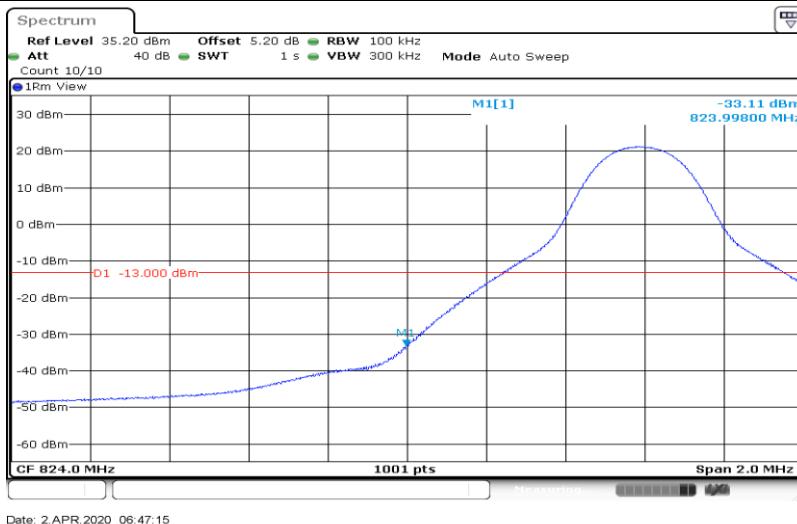
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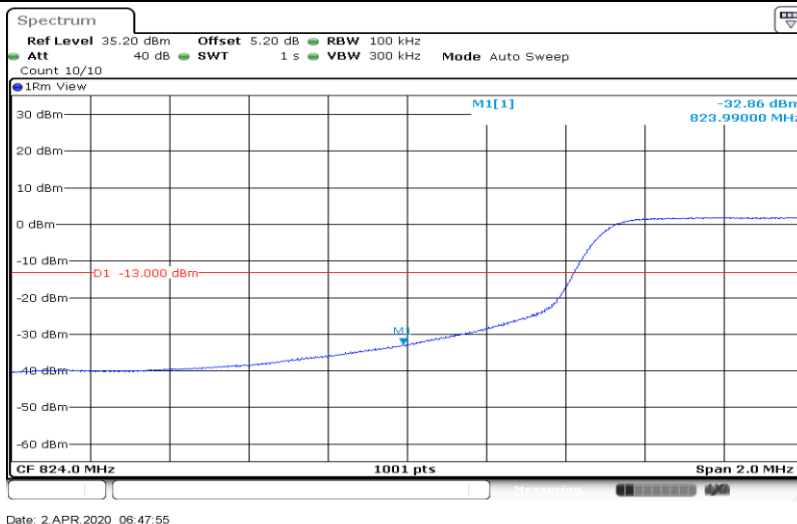
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Band5-10MHz-QPSK-20450-50RB#0



Band5-10MHz-QPSK-20600-1RB#49





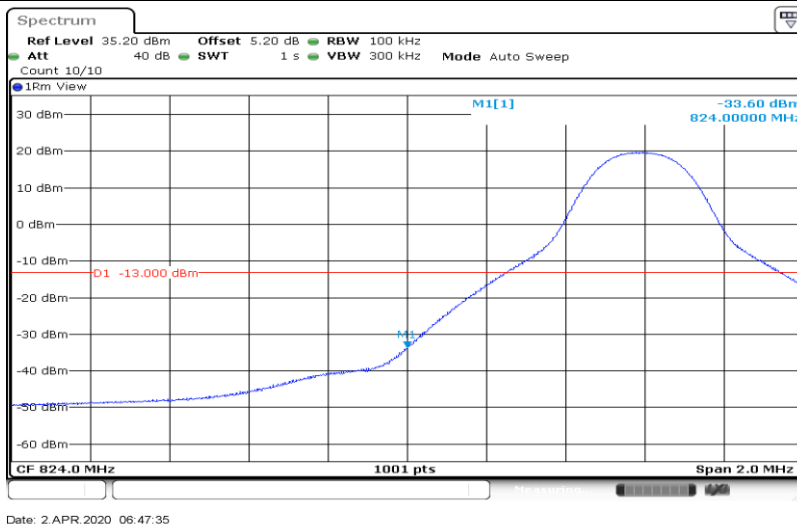


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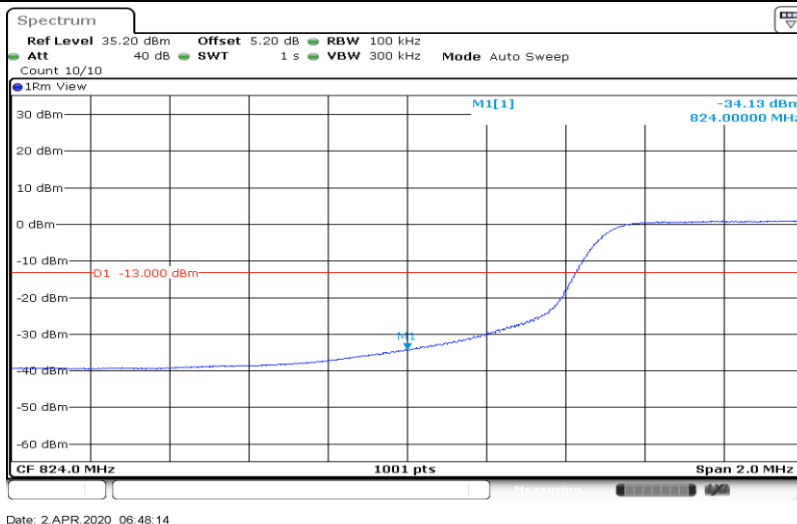


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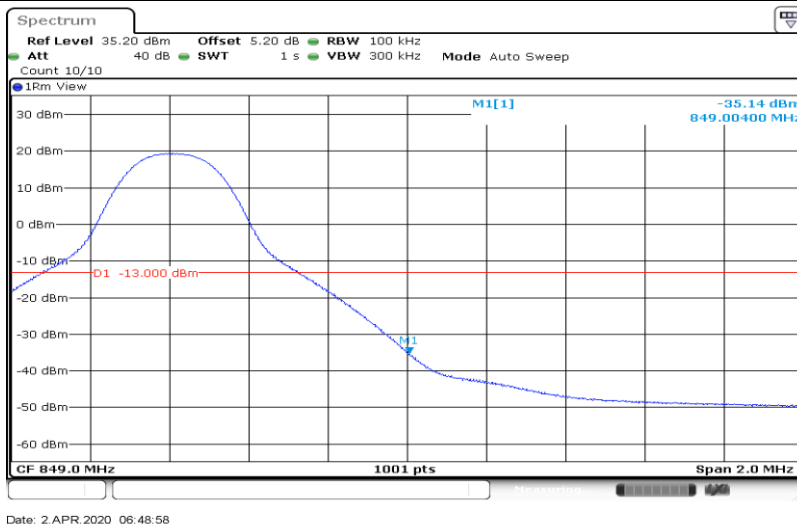


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Band5-10MHz-16QAM-20600-1RB#49





Band5-10MHz-16QAM-20600-50RB#0

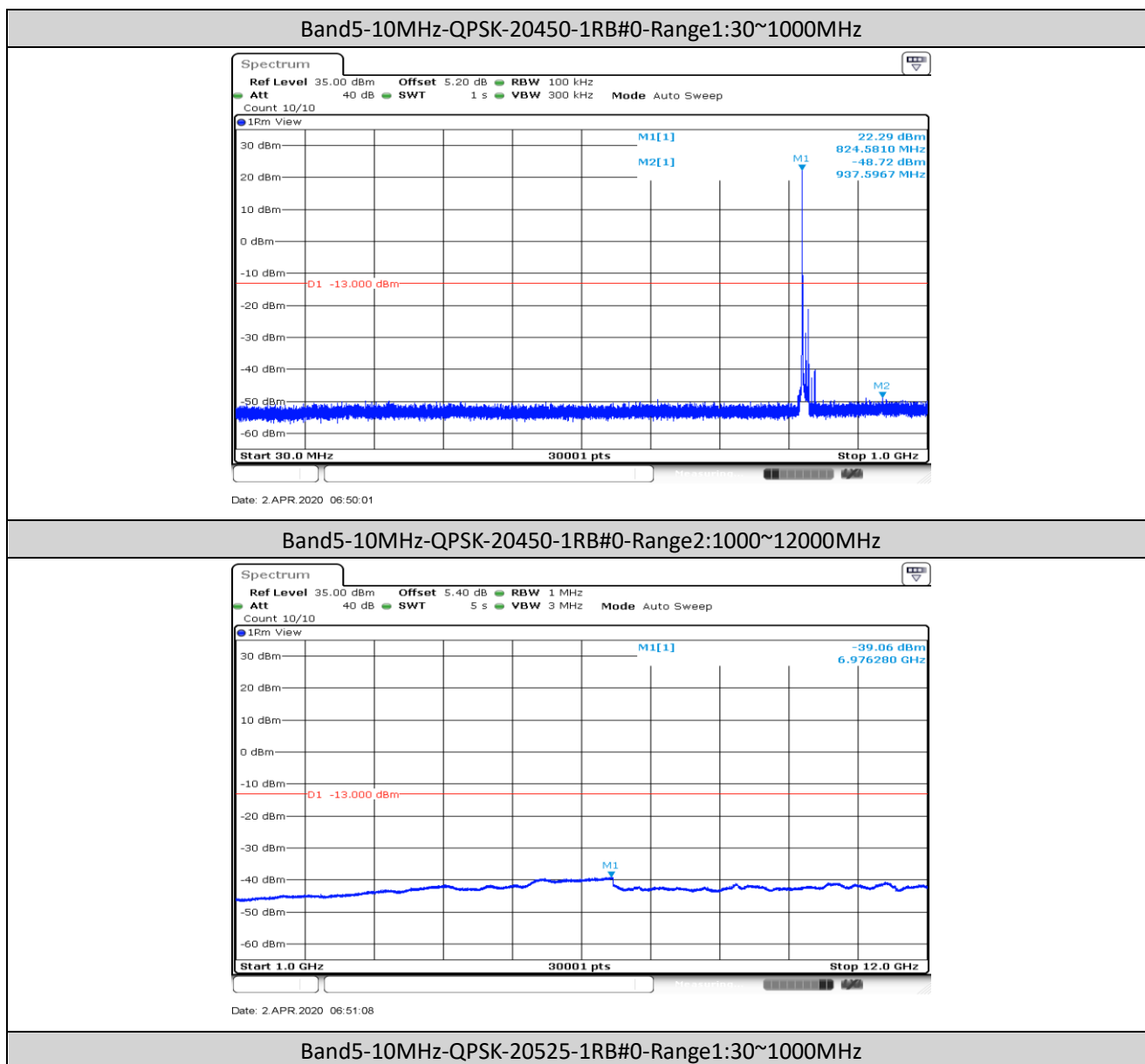


## 6. Spurious Emission at Antenna Terminal

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 =  $k * (\text{Span} / RBW)$ " with  $k$  between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

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

### 6.1. Test Plots

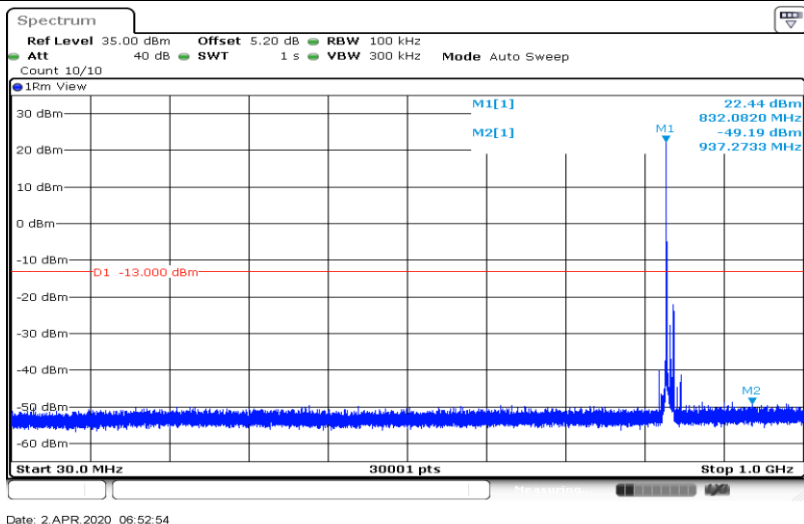


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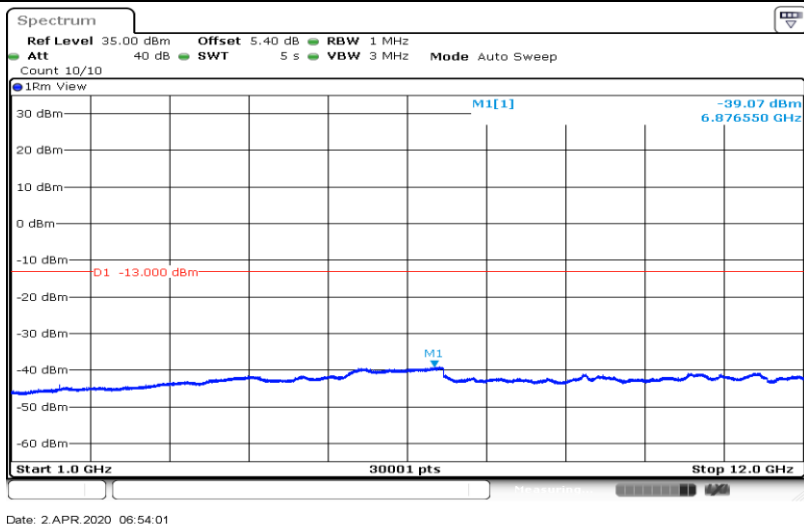
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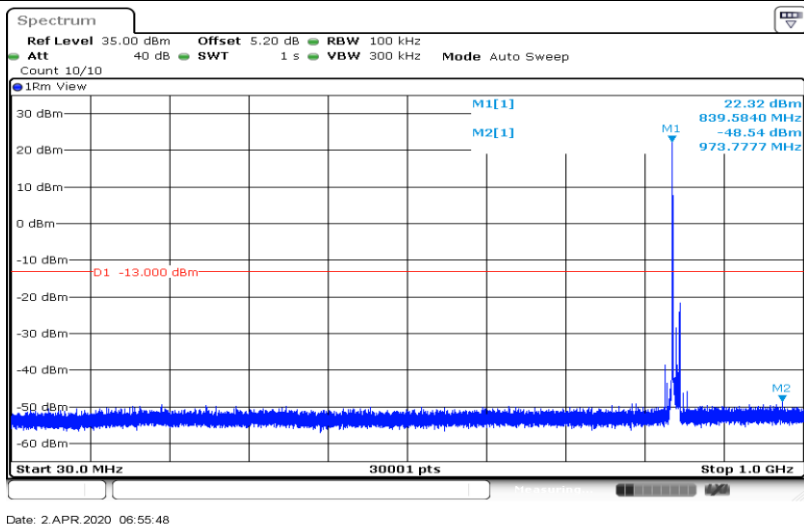


Band5-10MHz-QPSK-20525-1RB#0-Range2:1000~12000MHz

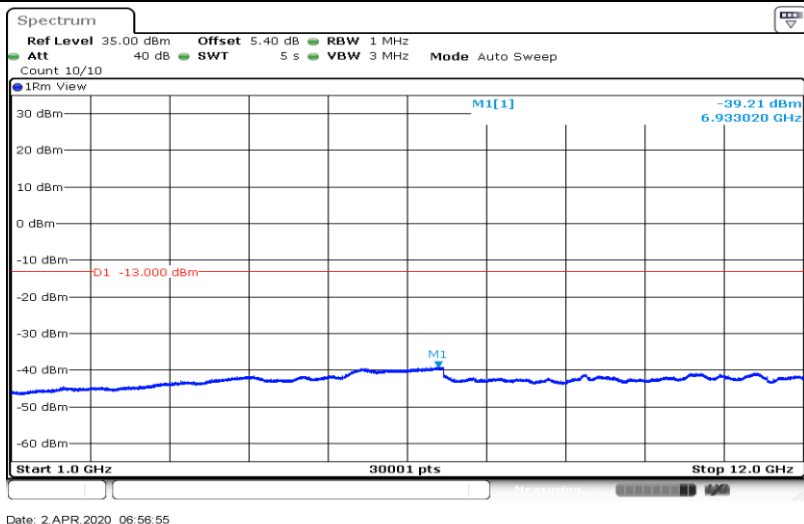


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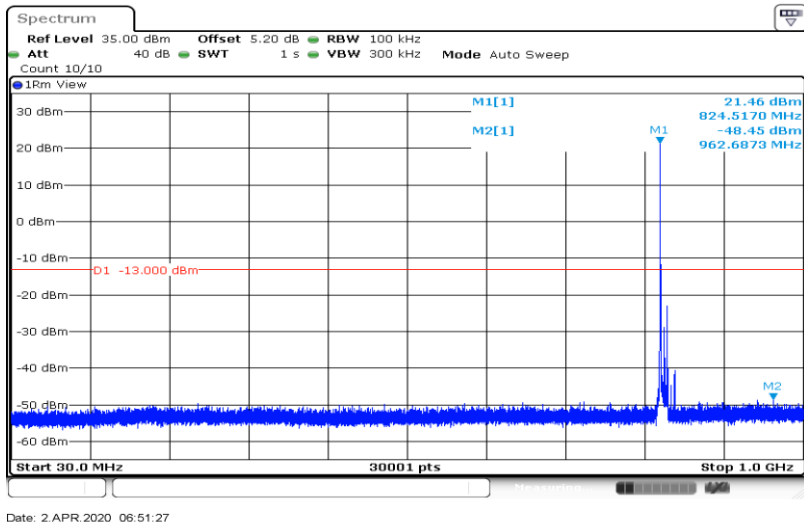


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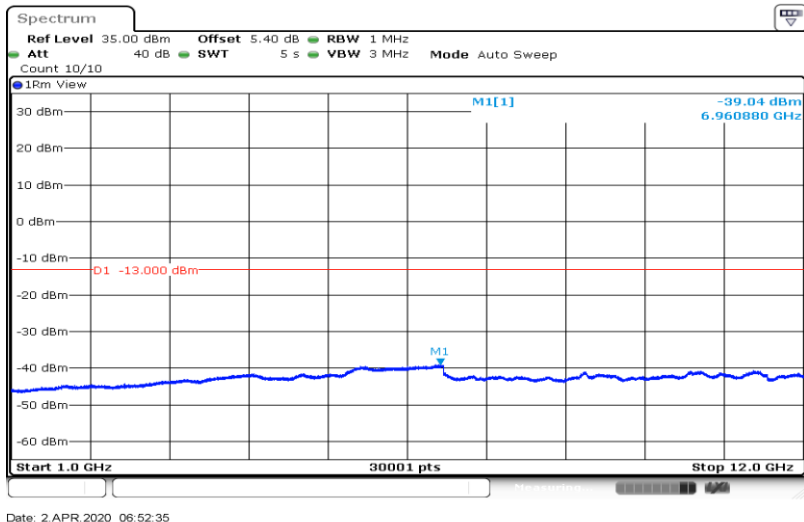


Band5-10MHz-16QAM-20450-1RB#0-Range1:30~1000MHz





**Band5-10MHz-16QAM-20450-1RB#0-Range2:1000~12000MHz**

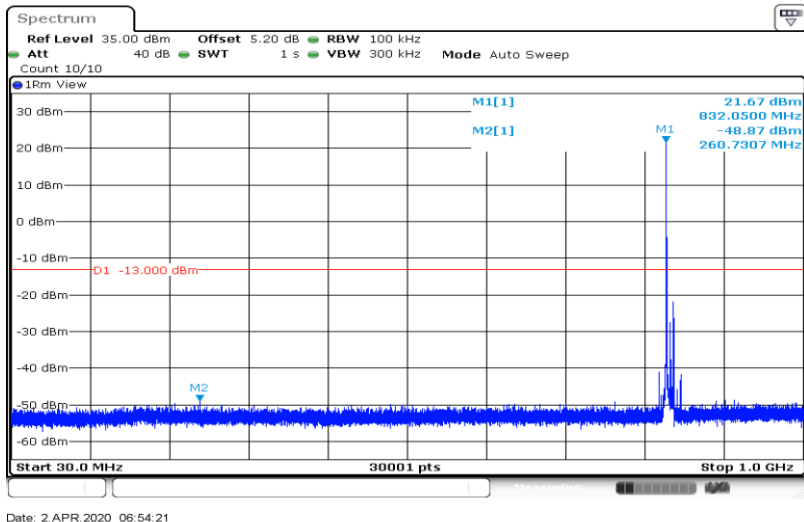


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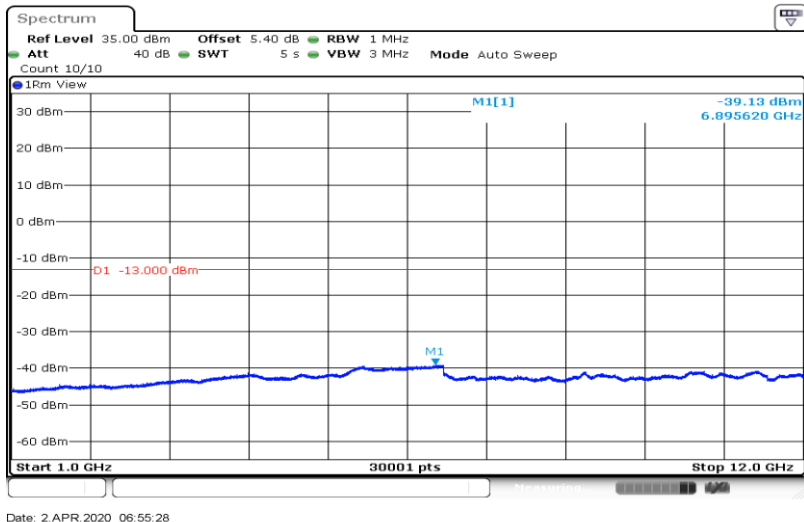


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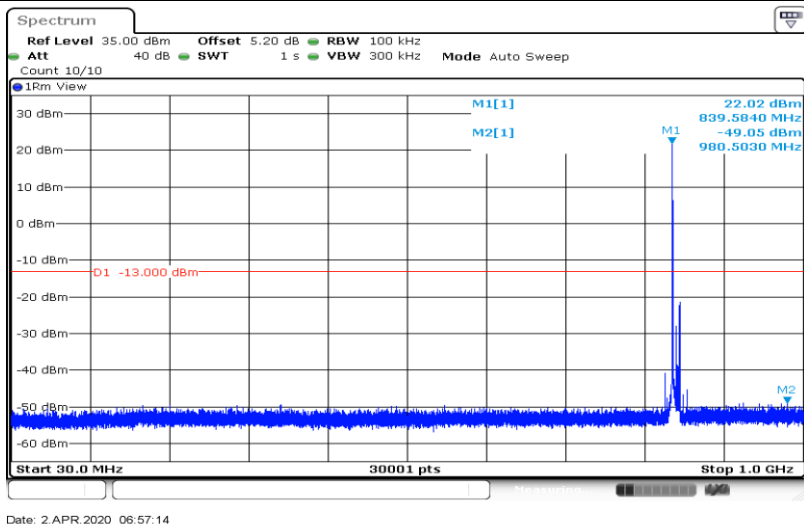
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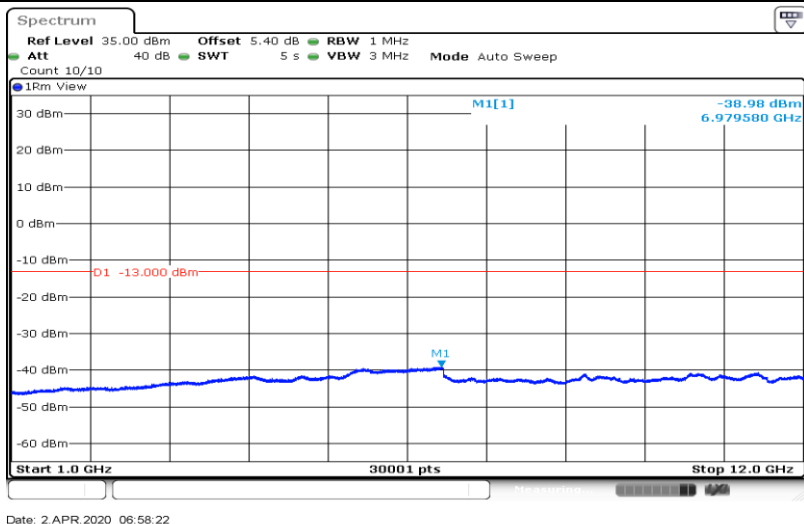
Band5-10MHz-16QAM-20600-1RB#0-Range1:30~1000MHz







## Band5-10MHz-16QAM-20600-1RB#0-Range2:1000~12000MHz



## 7. Field Strength of Spurious Radiation

### 7.1. Test Mode =LTE/TM1

#### 7.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
112.3086	-63.18	-13.00	50.18	271	325	Vertical
498.3394	-63.75	-13.00	50.75	254	285	Vertical
1649.3299	-53.40	-13.00	40.40	247	152	Vertical
2469.8940	-26.32	-13.00	13.32	241	13	Vertical
4123.0374	-59.84	-13.00	46.84	258	248	Vertical
7462.9488	-54.37	-13.00	41.37	236	360	Vertical
42.2226	-61.59	-13.00	48.59	241	360	Horizontal
418.1649	-65.20	-13.00	52.20	271	360	Horizontal
1648.9298	-50.65	-13.00	37.65	251	195	Horizontal
2462.2925	-23.94	-13.00	10.94	187	88	Horizontal
3298.6100	-55.19	-13.00	42.19	168	86	Horizontal
8779.9927	-53.09	-13.00	40.09	175	263	Horizontal

#### 7.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
109.6895	-62.20	-13.00	49.20	271	358	Vertical
510.7075	-63.29	-13.00	50.29	247	78	Vertical
1664.1328	-55.00	-13.00	42.00	214	349	Vertical
2462.6925	-22.19	-13.00	9.19	225	0	Vertical
4992.4664	-59.28	-13.00	46.28	263	181	Vertical
8771.5924	-52.91	-13.00	39.91	247	358	Vertical
40.0885	-63.51	-13.00	50.51	174	326	Horizontal
409.4345	-64.33	-13.00	51.33	158	183	Horizontal
1664.1328	-53.15	-13.00	40.15	169	28	Horizontal
2466.2933	-24.60	-13.00	11.60	174	107	Horizontal
3328.4109	-56.07	-13.00	43.07	188	326	Horizontal
8786.5929	-53.01	-13.00	40.01	185	114	Horizontal



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### 7.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
106.8763	-63.56	-13.00	50.56	241	78	Vertical
431.3091	-64.60	-13.00	51.60	257	353	Vertical
1678.9358	-55.73	-13.00	42.73	196	132	Vertical
2463.0926	-21.72	-13.00	8.72	241	166	Vertical
4197.8399	-58.61	-13.00	45.61	185	210	Vertical
8715.7905	-53.08	-13.00	40.08	159	41	Vertical
41.2041	-62.83	-13.00	49.83	174	337	Horizontal
427.7684	-65.67	-13.00	52.67	195	35	Horizontal
1678.9358	-50.76	-13.00	37.76	187	215	Horizontal
2459.8920	-18.79	-13.00	5.79	175	24	Horizontal
3358.4119	-53.12	-13.00	40.12	165	102	Horizontal
8759.5920	-53.19	-13.00	40.19	184	360	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.



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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
Band5	10MHz	QPSK	20450	50RB#0	VL	NT	-0.60	-0.000724	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VN	NT	-2.10	-0.002533	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VH	NT	-2.10	-0.002533	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VL	NT	-0.80	-0.000956	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VN	NT	-1.60	-0.001913	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VH	NT	-0.90	-0.001076	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VL	NT	1.00	0.001185	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VN	NT	-1.60	-0.001896	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VH	NT	-0.20	-0.000237	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VL	NT	0.20	0.000241	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VN	NT	1.20	0.001448	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VH	NT	0.30	0.000362	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VL	NT	0.60	0.000717	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VN	NT	0.50	0.000598	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VH	NT	-0.20	-0.000239	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VL	NT	-0.60	-0.000711	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VN	NT	-0.60	-0.000711	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VH	NT	0.20	0.000237	±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
Band5	10MHz	QPSK	20450	50RB#0	NV	-30	-1.60	-0.001930	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	-20	0.10	0.000121	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	0	-0.50	-0.000603	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	10	-1.10	-0.001327	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	20	-0.90	-0.001086	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	30	-1.70	-0.002051	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	40	-0.30	-0.000362	±2.5	PASS



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Band5	10MHz	QPSK	20450	50RB#0	NV	50	-0.30	-0.000362	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-30	0.00	0.000000	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	-1.10	-0.001315	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	0	-0.70	-0.000837	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	10	-0.70	-0.000837	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	20	-1.40	-0.001674	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	30	-1.00	-0.001195	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	-1.80	-0.002152	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	-0.60	-0.000717	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-30	-1.10	-0.001303	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-20	-0.90	-0.001066	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	0	-1.30	-0.001540	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	10	-0.90	-0.001066	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	20	-2.10	-0.002488	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	30	-1.30	-0.001540	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	40	-0.50	-0.000592	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	50	-0.50	-0.000592	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	-30	0.10	0.000121	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	-20	-0.90	-0.001086	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	0	-0.70	-0.000844	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	10	-0.90	-0.001086	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	20	-0.20	-0.000241	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	30	-1.00	-0.001206	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	40	-1.20	-0.001448	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	50	0.00	0.000000	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-30	-0.20	-0.000239	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-20	-1.10	-0.001315	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	0	-0.30	-0.000359	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	10	0.20	0.000239	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	20	-0.10	-0.000120	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	30	-0.10	-0.000120	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	40	-0.20	-0.000239	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	50	0.10	0.000120	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	-30	-0.20	-0.000237	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	-20	-1.00	-0.001185	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	0	-2.10	-0.002488	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	10	-0.50	-0.000592	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	20	-0.40	-0.000474	±2.5	PASS



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Band5	10MHz	16QAM	20600	50RB#0	NV	30	-1.10	-0.001303	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	40	1.10	0.001303	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	50	-0.70	-0.000829	±2.5	PASS



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