



# 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	24.02	17.66	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	24.14	17.78	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	24.02	17.66	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#0	24.13	17.77	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#1	24.18	17.82	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#3	24.17	17.81	38.45	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	23.19	16.83	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	24.02	17.66	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	24.02	17.66	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	24.15	17.79	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#0	24.12	17.76	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#1	24.20	17.84	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#3	24.11	17.75	38.45	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	23.18	16.82	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	24.04	17.68	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	24.03	17.67	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	24.17	17.81	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#0	24.14	17.78	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#1	24.20	17.84	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#3	24.14	17.78	38.45	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	23.20	16.84	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	23.25	16.89	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	23.48	17.12	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	23.23	16.87	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#1	23.26	16.90	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#0	23.22	16.86	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#3	23.26	16.90	38.45	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	22.25	15.89	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	23.25	16.89	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	23.36	17.00	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	23.30	16.94	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#3	23.18	16.82	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#0	23.26	16.90	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#1	23.26	16.90	38.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	22.24	15.88	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	23.37	17.01	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	23.35	16.99	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	23.30	16.94	38.45	PASS



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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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Band5	1.4MHz	16QAM	20643	3RB#0	23.24	16.88	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#1	23.27	16.91	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#3	23.28	16.92	38.45	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	22.27	15.91	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#8	24.10	17.74	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#14	24.11	17.75	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#0	24.11	17.75	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#0	23.19	16.83	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#4	23.22	16.86	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#7	23.19	16.83	38.45	PASS
Band5	3MHz	QPSK	20415	15RB#0	23.20	16.84	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#0	24.12	17.76	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#14	24.14	17.78	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#8	24.10	17.74	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#7	23.21	16.85	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#0	23.22	16.86	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#4	23.27	16.91	38.45	PASS
Band5	3MHz	QPSK	20525	15RB#0	23.22	16.86	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#8	24.11	17.75	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#0	24.10	17.74	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#14	24.11	17.75	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#0	23.25	16.89	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#7	23.23	16.87	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#4	23.25	16.89	38.45	PASS
Band5	3MHz	QPSK	20635	15RB#0	23.21	16.85	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#14	23.33	16.97	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#0	23.36	17.00	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#8	23.39	17.03	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#7	22.23	15.87	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#4	22.27	15.91	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#0	22.23	15.87	38.45	PASS
Band5	3MHz	16QAM	20415	15RB#0	22.14	15.78	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#14	23.35	16.99	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#0	23.35	16.99	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#8	23.36	17.00	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#7	22.25	15.89	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#0	22.26	15.90	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#4	22.29	15.93	38.45	PASS
Band5	3MHz	16QAM	20525	15RB#0	22.19	15.83	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#8	23.45	17.09	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#0	23.29	16.93	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#14	23.30	16.94	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#0	22.25	15.89	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#4	22.27	15.91	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#7	22.22	15.86	38.45	PASS
Band5	3MHz	16QAM	20635	15RB#0	22.20	15.84	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#0	23.99	17.63	38.45	PASS



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Band5	5MHz	QPSK	20425	1RB#12	24.26	17.90	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#24	24.02	17.66	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#0	23.17	16.81	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#6	23.23	16.87	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#13	23.22	16.86	38.45	PASS
Band5	5MHz	QPSK	20425	25RB#0	23.18	16.82	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#0	24.01	17.65	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#24	24.01	17.65	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#12	24.25	17.89	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#0	23.22	16.86	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#6	23.28	16.92	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#13	23.19	16.83	38.45	PASS
Band5	5MHz	QPSK	20525	25RB#0	23.23	16.87	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#24	24.01	17.65	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#0	23.97	17.61	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#12	24.29	17.93	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#0	23.20	16.84	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#6	23.25	16.89	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#13	23.18	16.82	38.45	PASS
Band5	5MHz	QPSK	20625	25RB#0	23.21	16.85	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#0	23.35	16.99	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#12	23.46	17.10	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#24	23.23	16.87	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#6	22.24	15.88	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#0	22.18	15.82	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#13	22.25	15.89	38.45	PASS
Band5	5MHz	16QAM	20425	25RB#0	22.16	15.80	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#0	23.30	16.94	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#12	23.54	17.18	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#24	23.22	16.86	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#13	22.17	15.81	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#0	22.22	15.86	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#6	22.28	15.92	38.45	PASS
Band5	5MHz	16QAM	20525	25RB#0	22.21	15.85	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#12	23.49	17.13	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#0	23.27	16.91	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#24	23.24	16.88	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#0	22.18	15.82	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#6	22.24	15.88	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#13	22.15	15.79	38.45	PASS
Band5	5MHz	16QAM	20625	25RB#0	22.16	15.80	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#49	24.10	17.74	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#24	24.27	17.91	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#0	24.09	17.73	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#0	23.20	16.84	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#12	23.25	16.89	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#25	23.23	16.87	38.45	PASS



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Band5	10MHz	QPSK	20450	50RB#0	23.21	16.85	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#0	24.12	17.76	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#49	24.12	17.76	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#24	24.24	17.88	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#25	23.27	16.91	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#0	23.31	16.95	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#12	23.26	16.90	38.45	PASS
Band5	10MHz	QPSK	20525	50RB#0	23.31	16.95	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#24	24.24	17.88	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#0	24.15	17.79	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#49	24.09	17.73	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#0	23.33	16.97	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#25	23.21	16.85	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#12	23.26	16.90	38.45	PASS
Band5	10MHz	QPSK	20600	50RB#0	23.31	16.95	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#49	23.43	17.07	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#0	23.47	17.11	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#24	23.43	17.07	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#25	22.21	15.85	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#12	22.21	15.85	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#0	22.19	15.83	38.45	PASS
Band5	10MHz	16QAM	20450	50RB#0	22.20	15.84	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#49	23.30	16.94	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#0	23.44	17.08	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#24	23.40	17.04	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#25	22.25	15.89	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#0	22.26	15.90	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#12	22.24	15.88	38.45	PASS
Band5	10MHz	16QAM	20525	50RB#0	22.26	15.90	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#24	23.52	17.16	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#0	23.47	17.11	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#49	23.26	16.90	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#0	22.30	15.94	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#12	22.23	15.87	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#25	22.19	15.83	38.45	PASS
Band5	10MHz	16QAM	20600	50RB#0	22.26	15.90	38.45	PASS

Remark:

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

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

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



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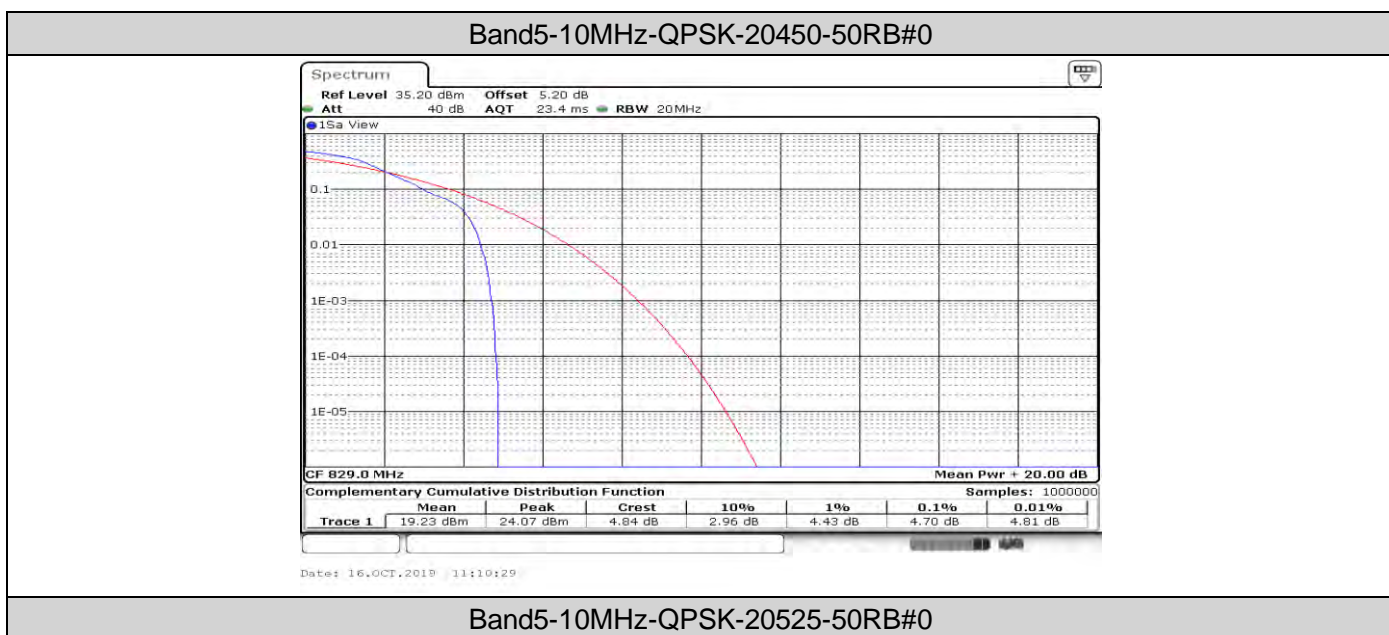


## 2. Peak-to-Average Ratio (CCDF)

### 2.1. Test Result

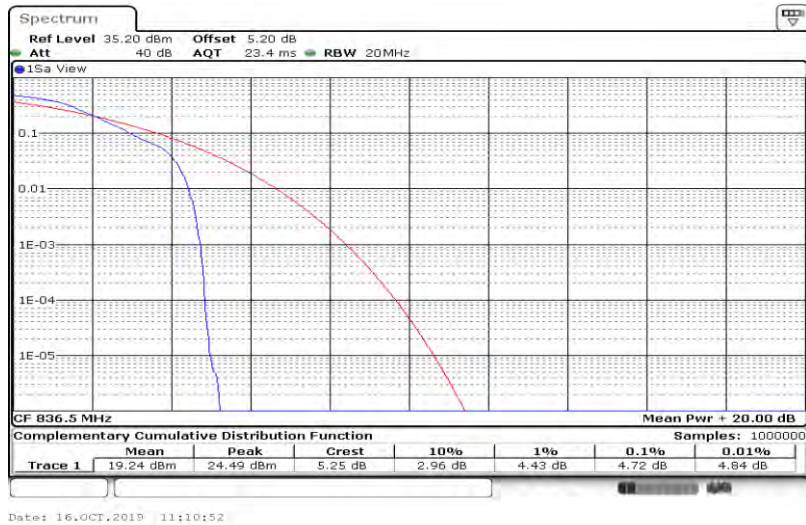
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	4.70	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	4.72	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	4.72	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	6.43	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	6.41	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	6.43	13	PASS

### 2.2. Test Plots



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



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



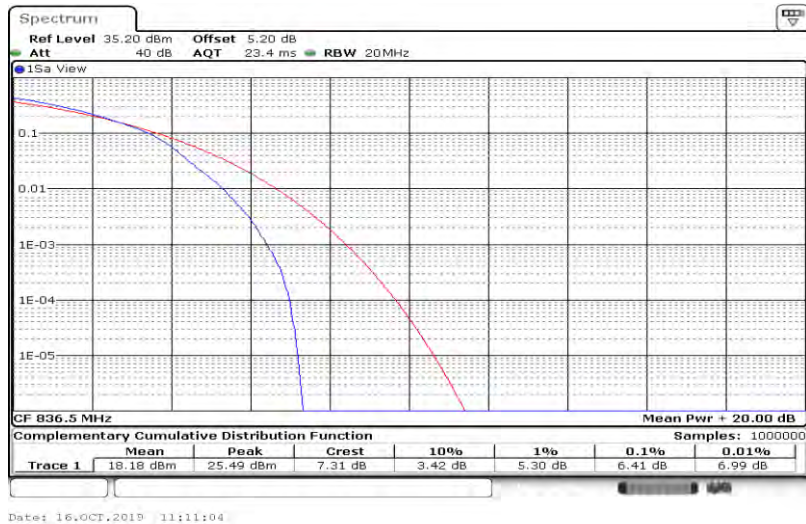
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**Band5-10MHz-16QAM-20525-50RB#0**



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



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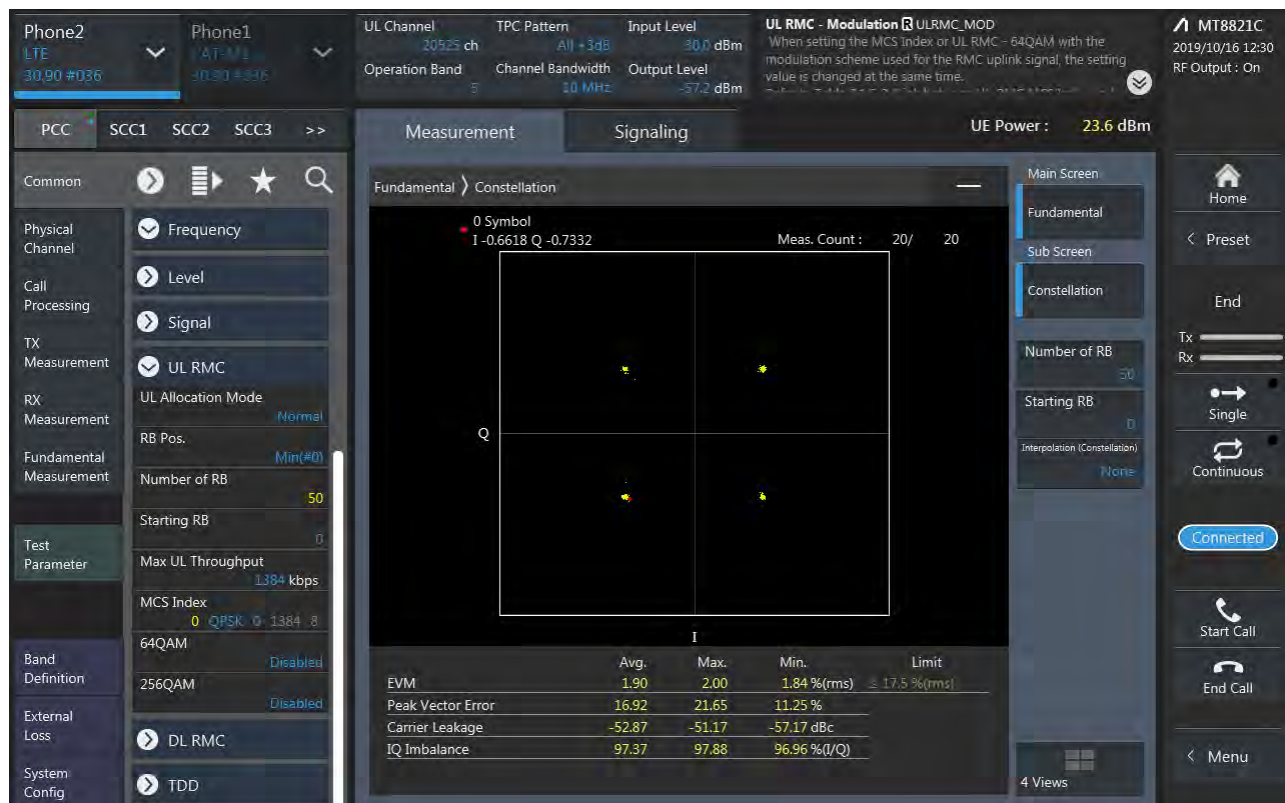
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### 3. Modulation Characteristics

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

##### 3.1.1. Test Channel = MCH



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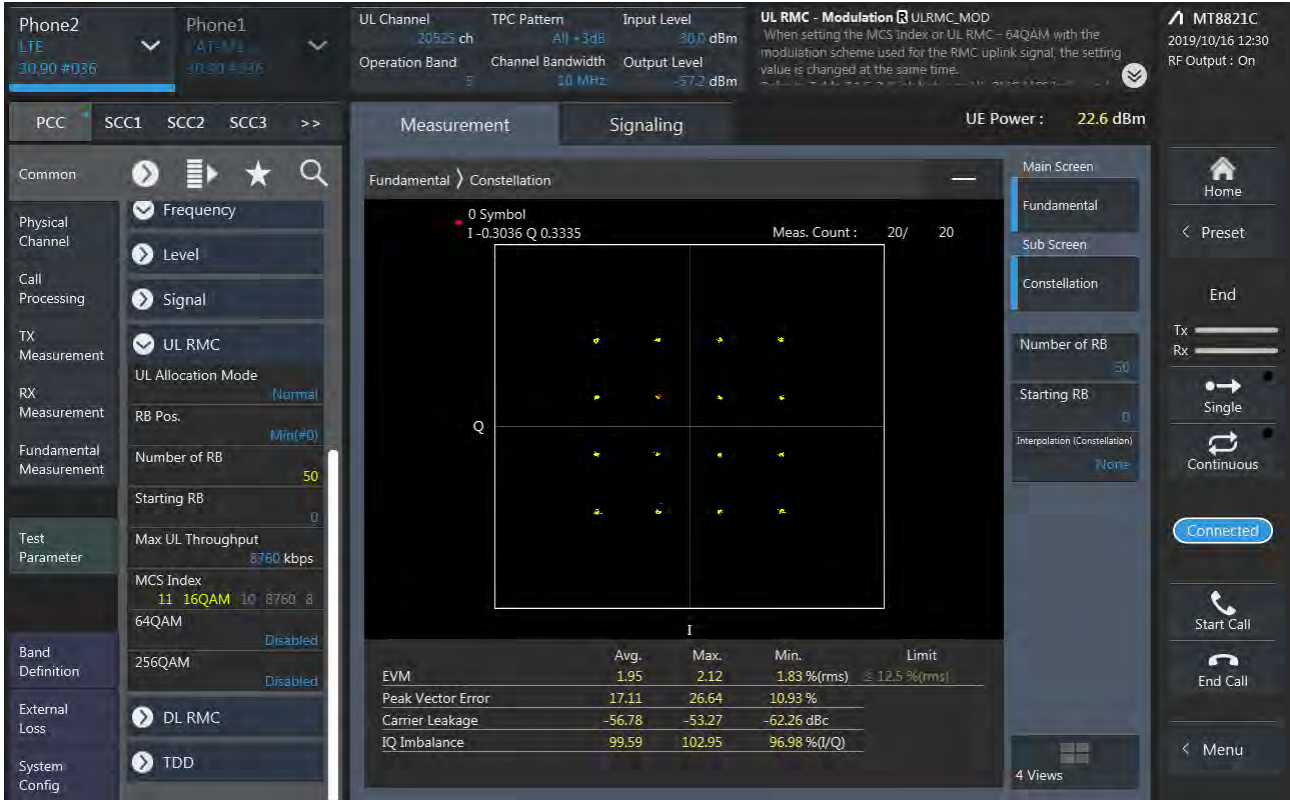
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### 3.2. Test Mode = LTE /TM2 10MHz

#### 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
Band5	1.4MHz	QPSK	20407	6RB#0	1.091	1.284	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.091	1.284	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.091	1.287	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.085	1.287	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.091	1.284	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.091	1.287	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.691	2.910	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.691	2.916	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.685	2.922	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.673	2.904	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.673	2.904	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.673	2.910	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.466	4.830	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.466	4.840	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.466	4.820	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.476	4.930	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.486	4.860	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.486	4.860	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.931	9.580	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.931	9.620	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.931	9.580	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.911	9.560	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.931	9.640	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.911	9.580	PASS



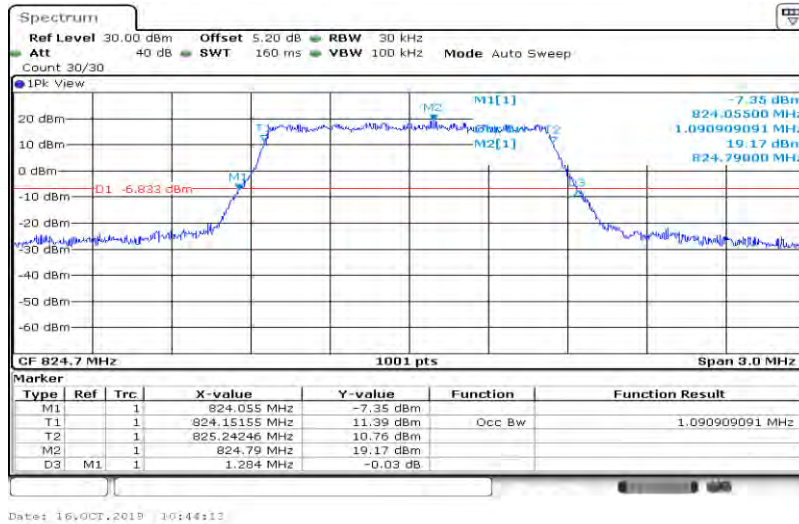
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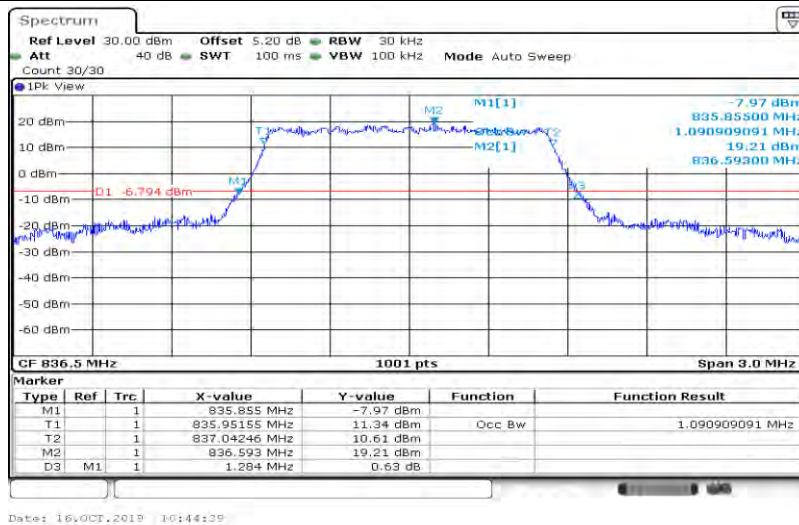


### 4.2. Test Plots

Band5-1.4MHz-QPSK-20407-6RB#0-1.091



Band5-1.4MHz-QPSK-20525-6RB#0-1.091



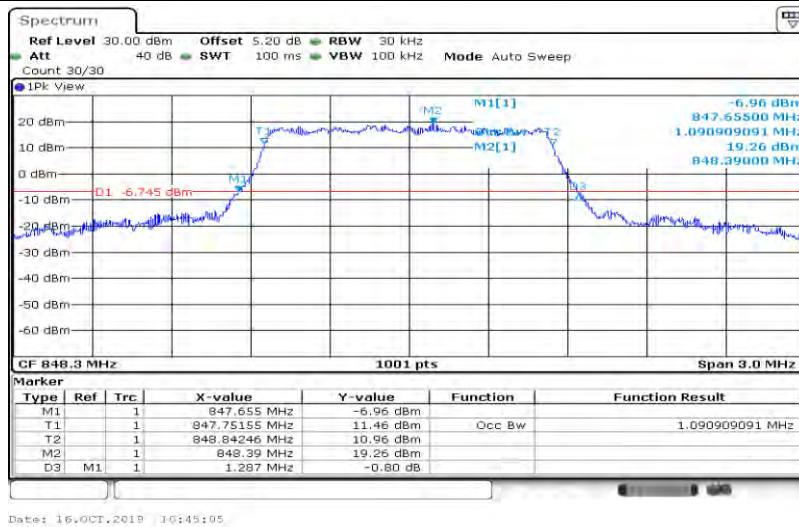
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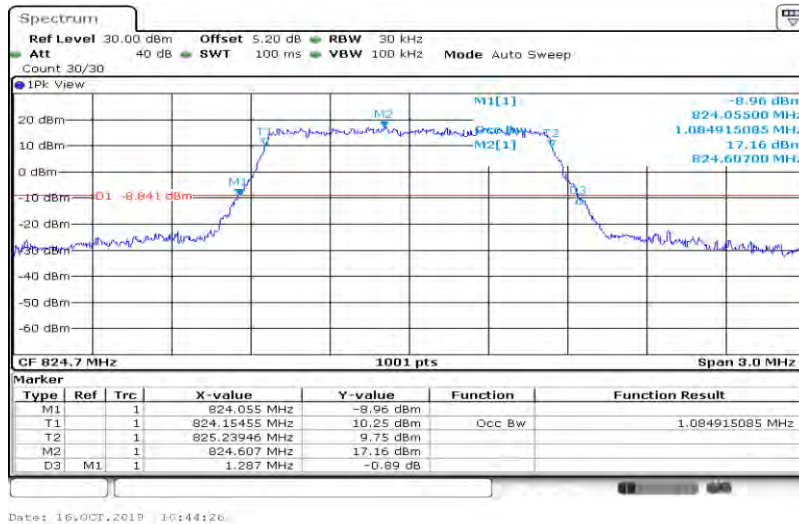
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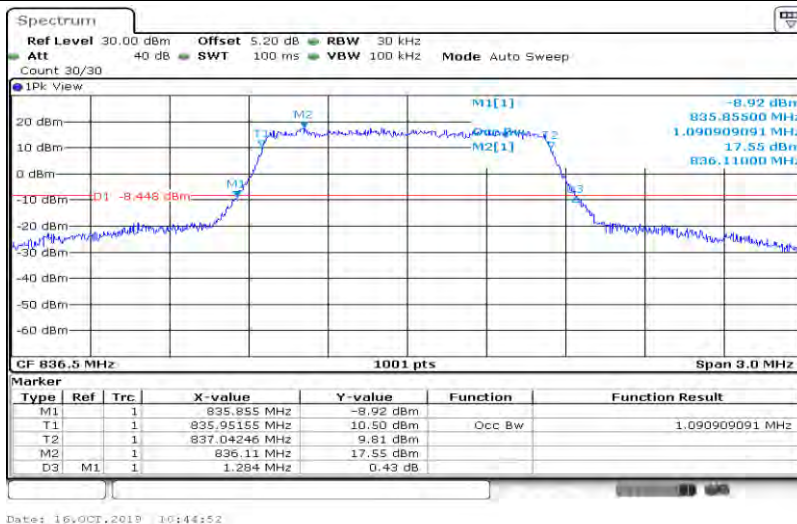
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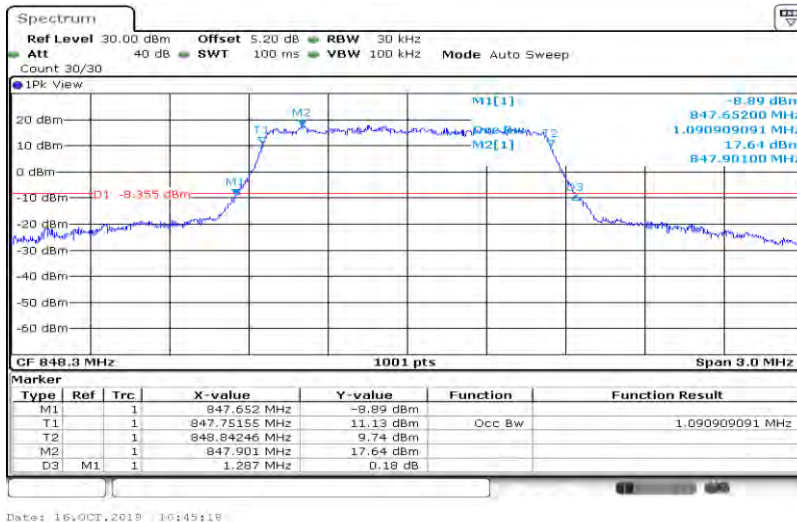
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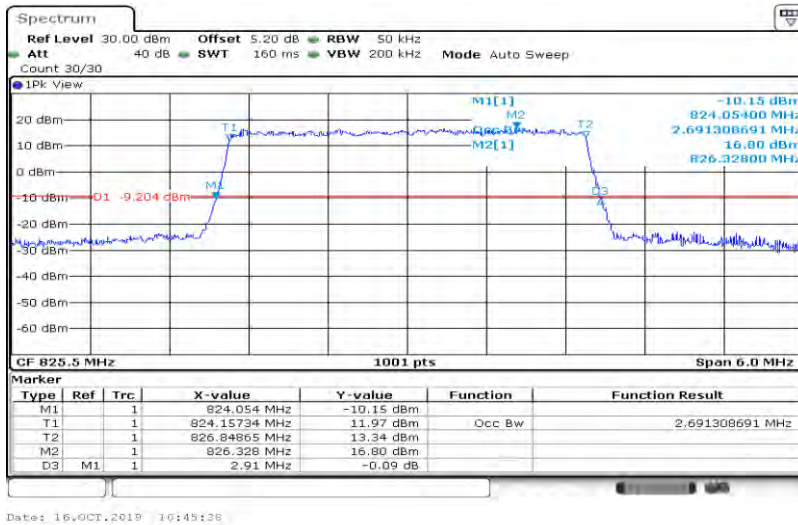


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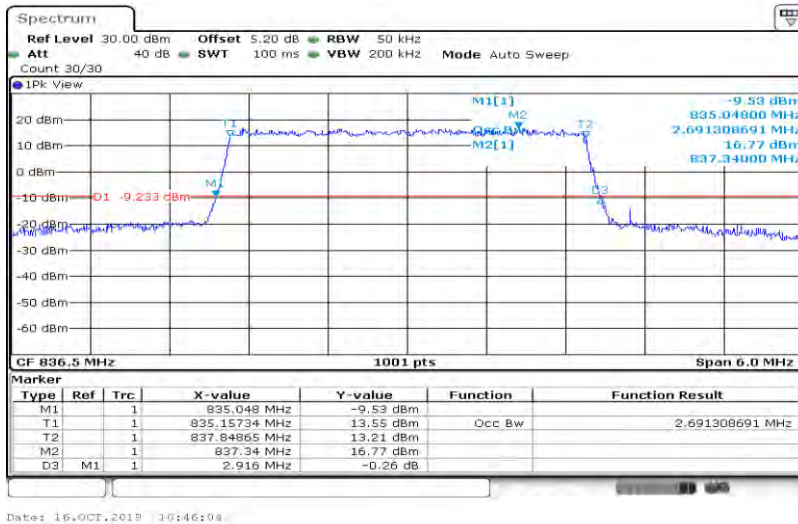


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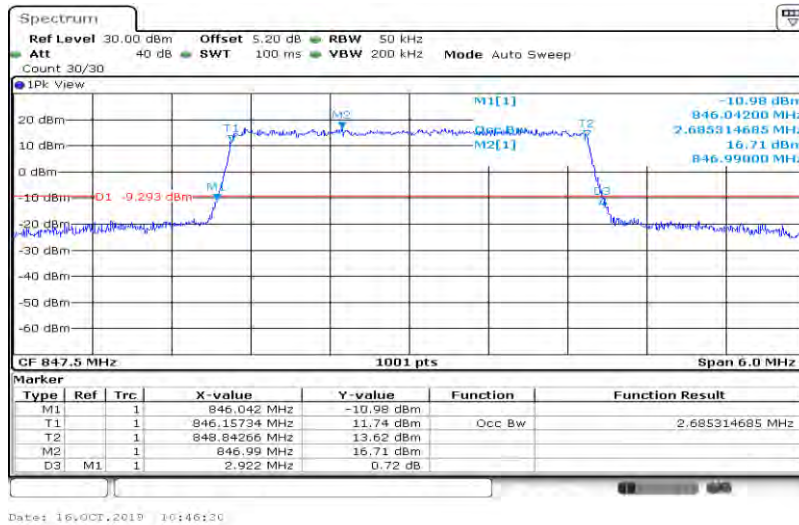
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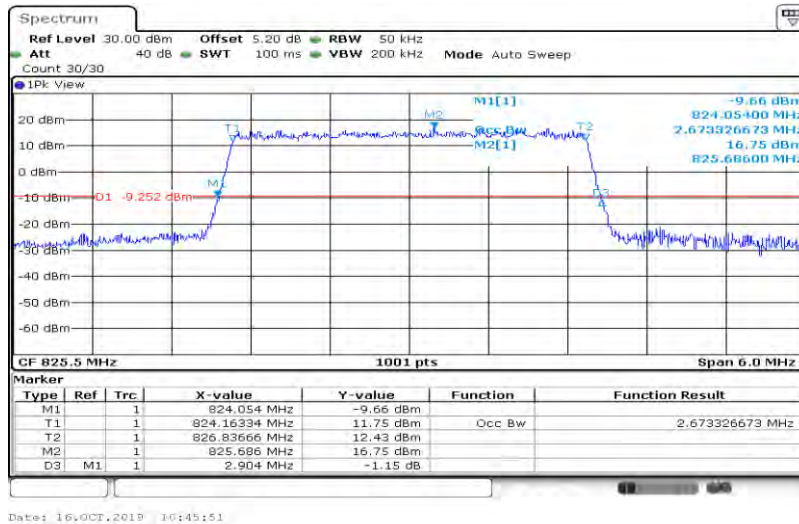
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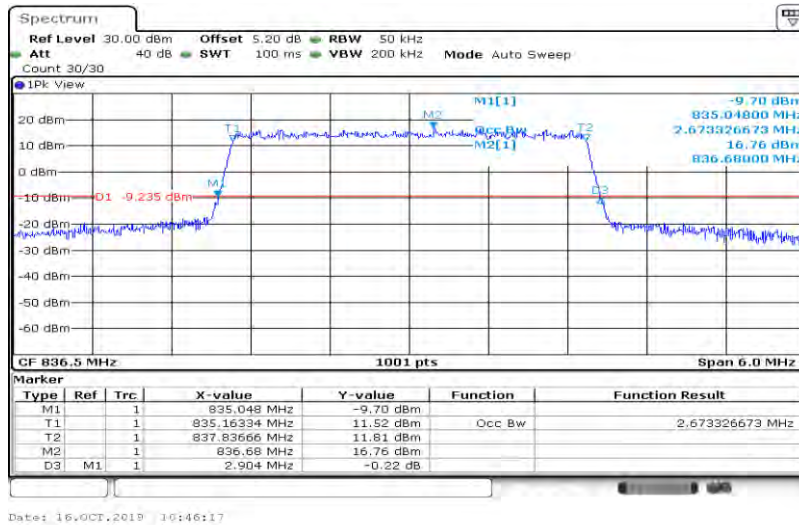
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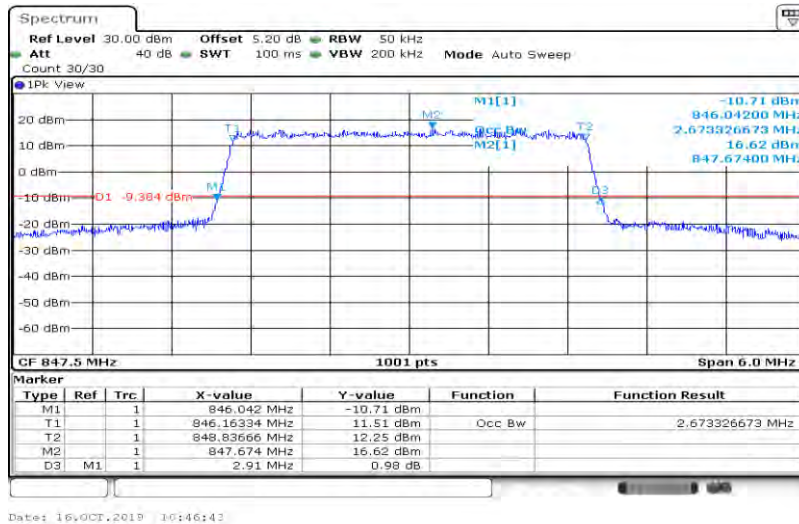
**Band5-3MHz-16QAM-20525-15RB#0-2.673**



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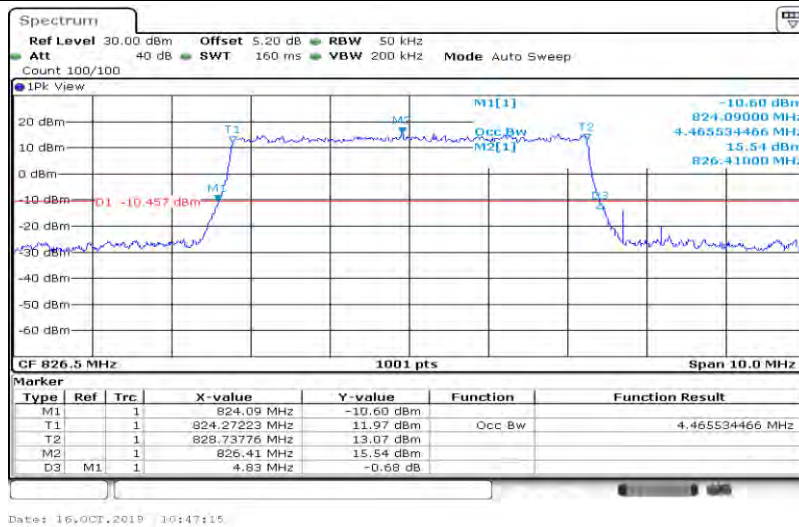
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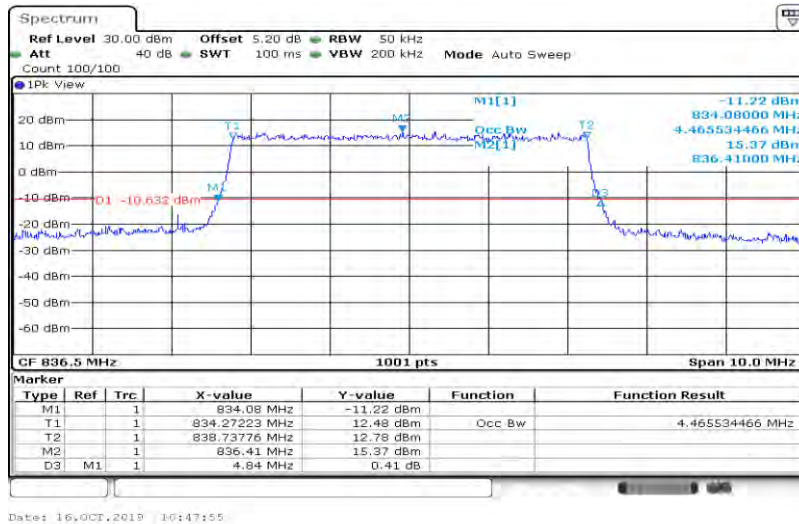
**Band5-5MHz-QPSK-20425-25RB#0-4.466**



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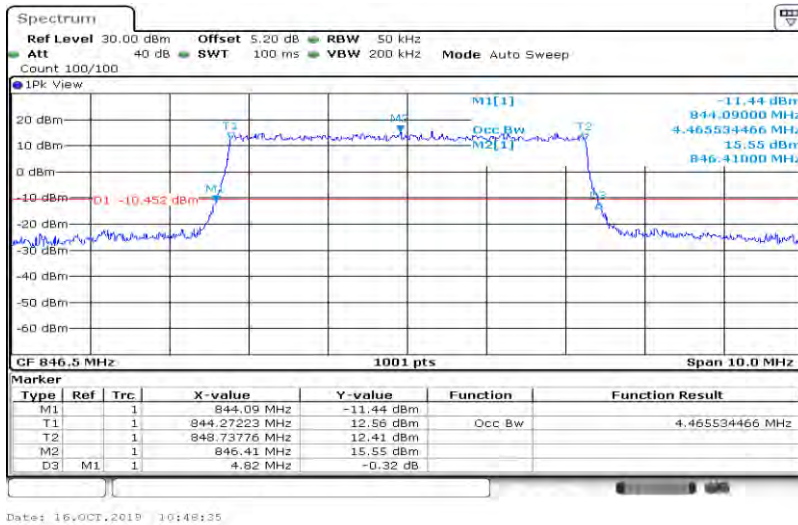
**Band5-5MHz-QPSK-20625-25RB#0-4.466**



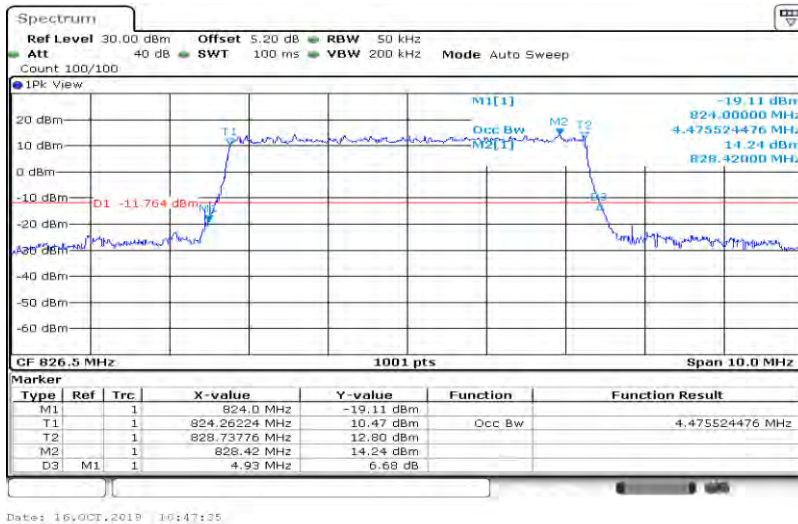
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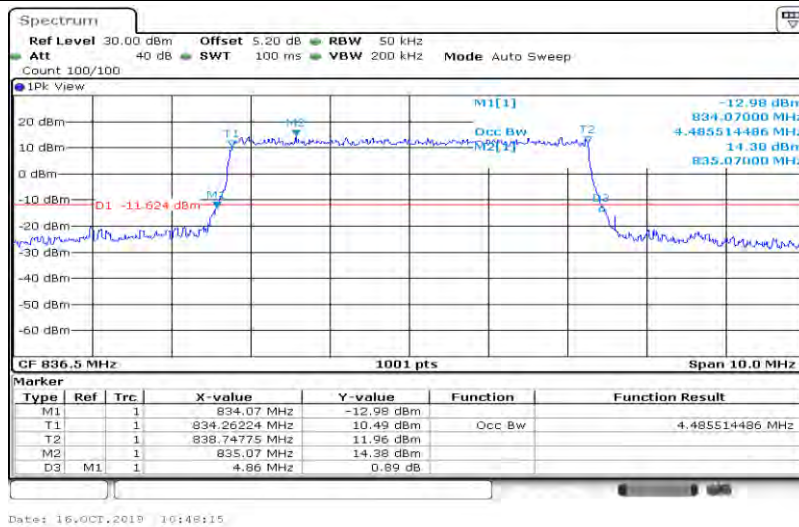
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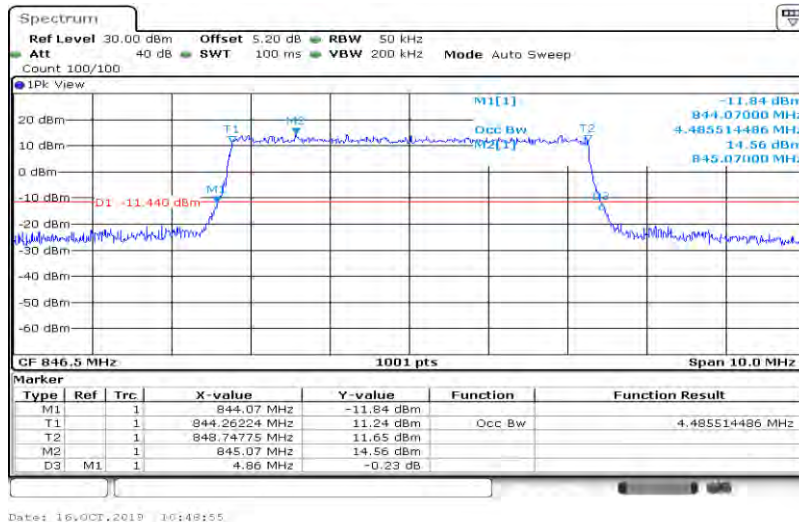


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Date: 16/OCT/2019 16:48:15

**Band5-5MHz-16QAM-20625-25RB#0-4.486**

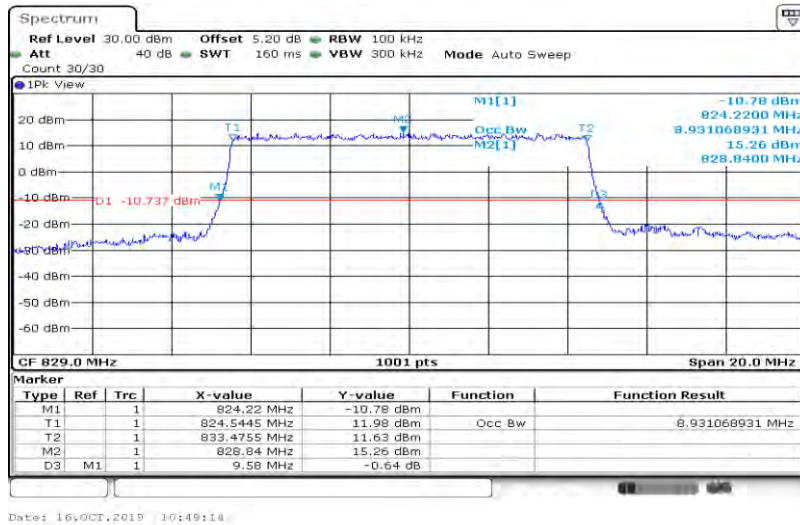


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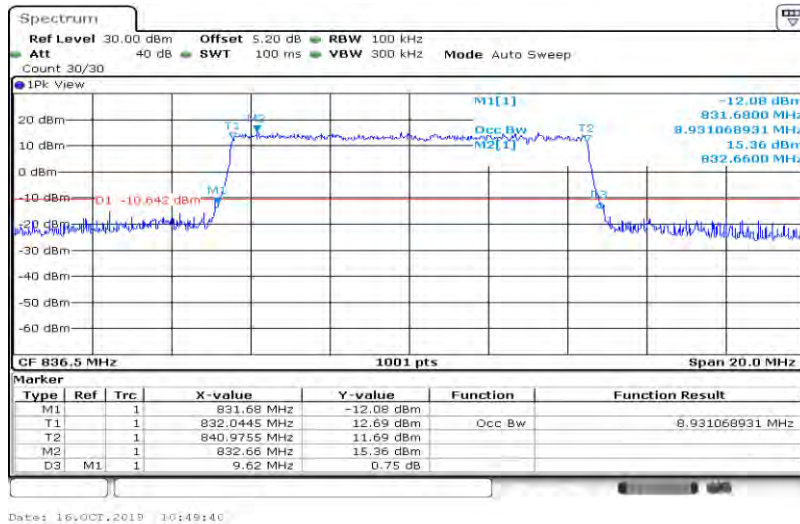
**Band5-10MHz-QPSK-20450-50RB#0-8.931**



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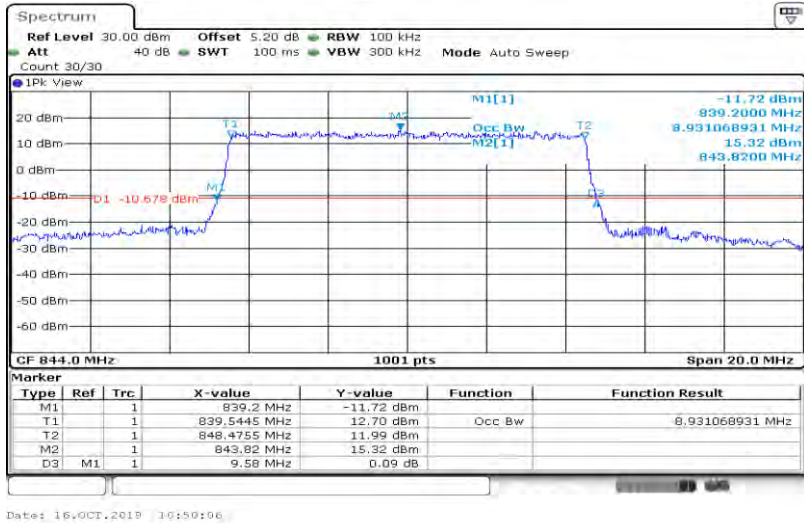
**Band5-10MHz-QPSK-20525-50RB#0-8.931**



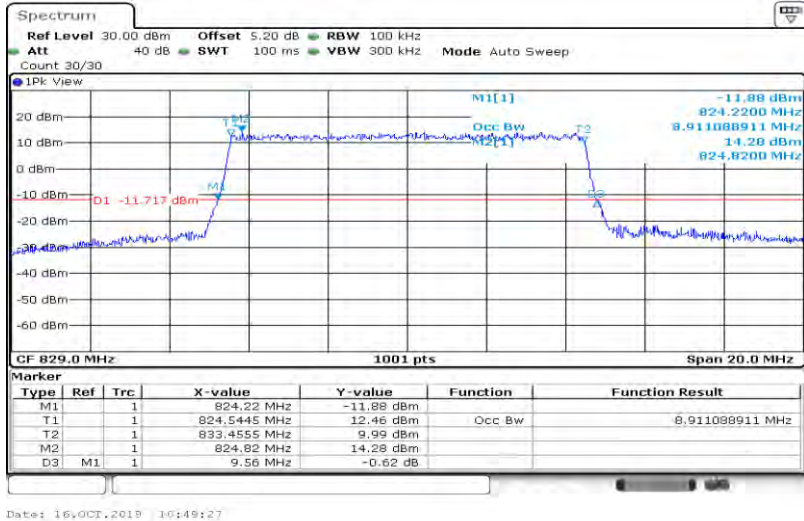
**Band5-10MHz-QPSK-20600-50RB#0-8.931**



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**Band5-10MHz-16QAM-20450-50RB#0-8.911**

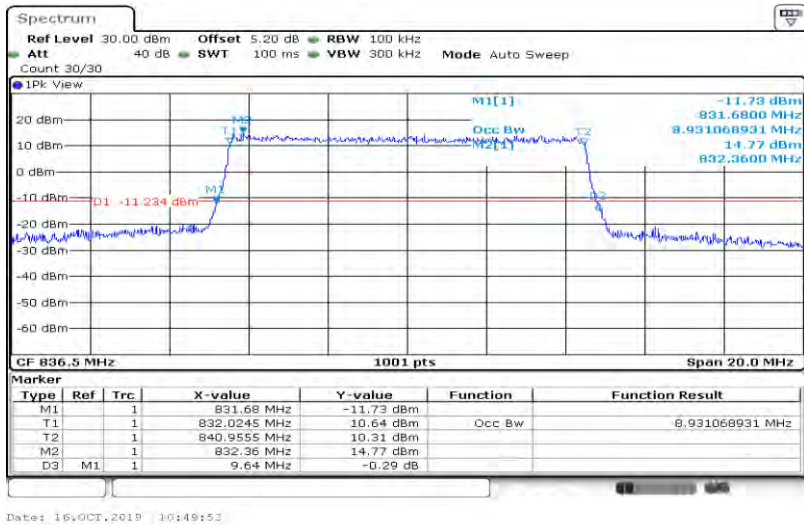


**Band5-10MHz-16QAM-20525-50RB#0-8.931**

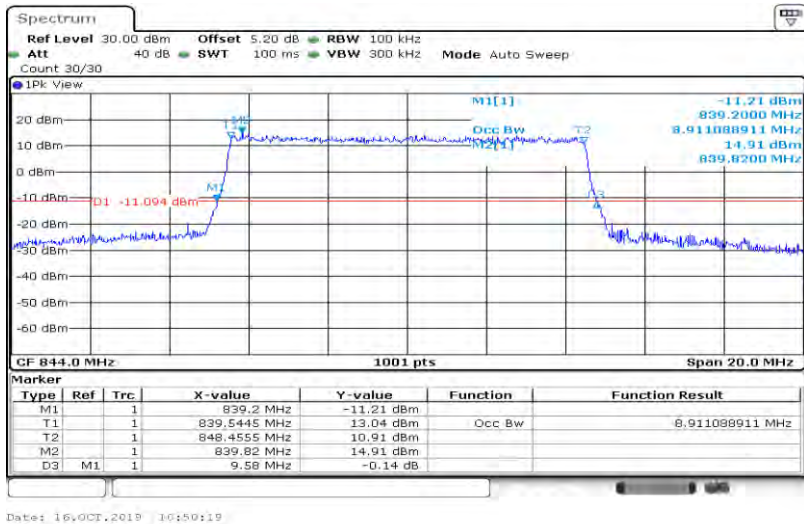


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**Band5-10MHz-16QAM-20600-50RB#0-8.911**

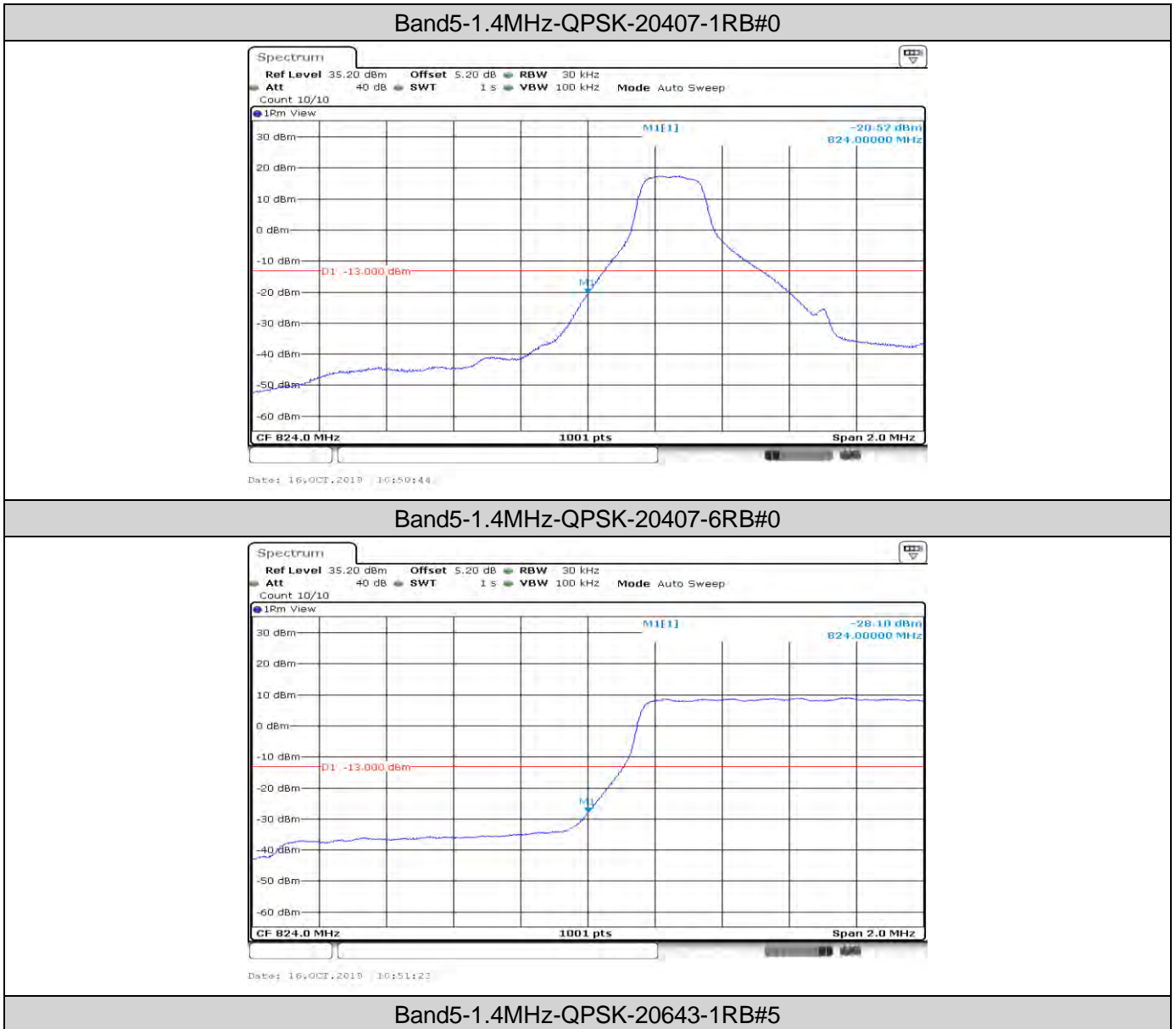


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## 5. Band Edge Compliance

### 5.1. Test Plots



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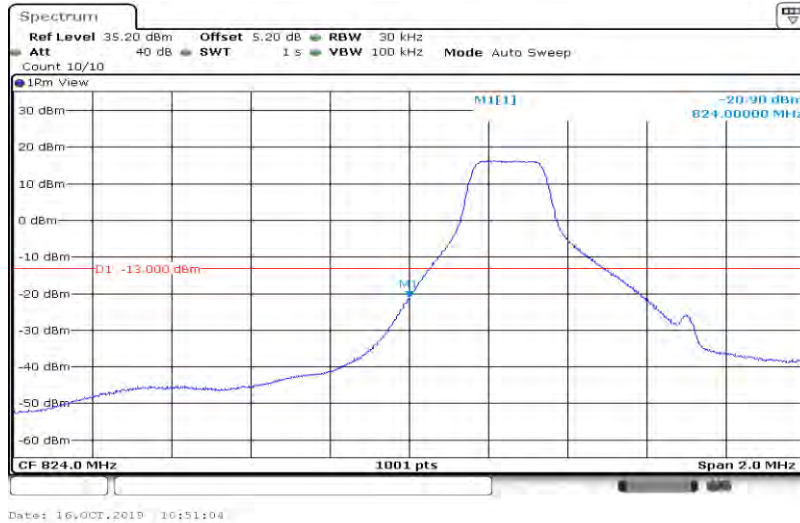
**Band5-1.4MHz-QPSK-20643-6RB#0**



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



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**Band5-1.4MHz-16QAM-20407-6RB#0**



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



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**Band5-1.4MHz-16QAM-20643-6RB#0**



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



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



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



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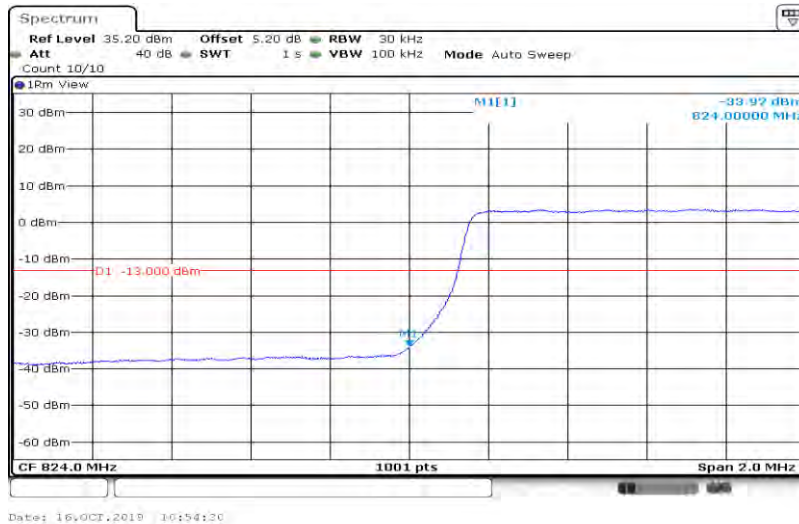
**Band5-3MHz-16QAM-20415-1RB#0**



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**Band5-3MHz-16QAM-20415-15RB#0**



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



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**Band5-3MHz-16QAM-20635-15RB#0**



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



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



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



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**Band5-5MHz-QPSK-20625-25RB#0**



**Band5-5MHz-16QAM-20425-1RB#0**



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



**Band5-5MHz-16QAM-20625-1RB#24**



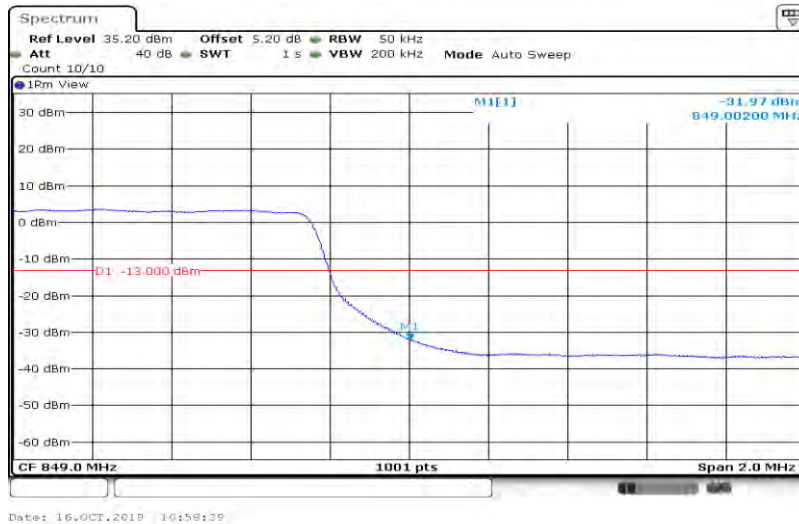
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**Band5-5MHz-16QAM-20625-25RB#0**



**Band5-10MHz-QPSK-20450-1RB#0**



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



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



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



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



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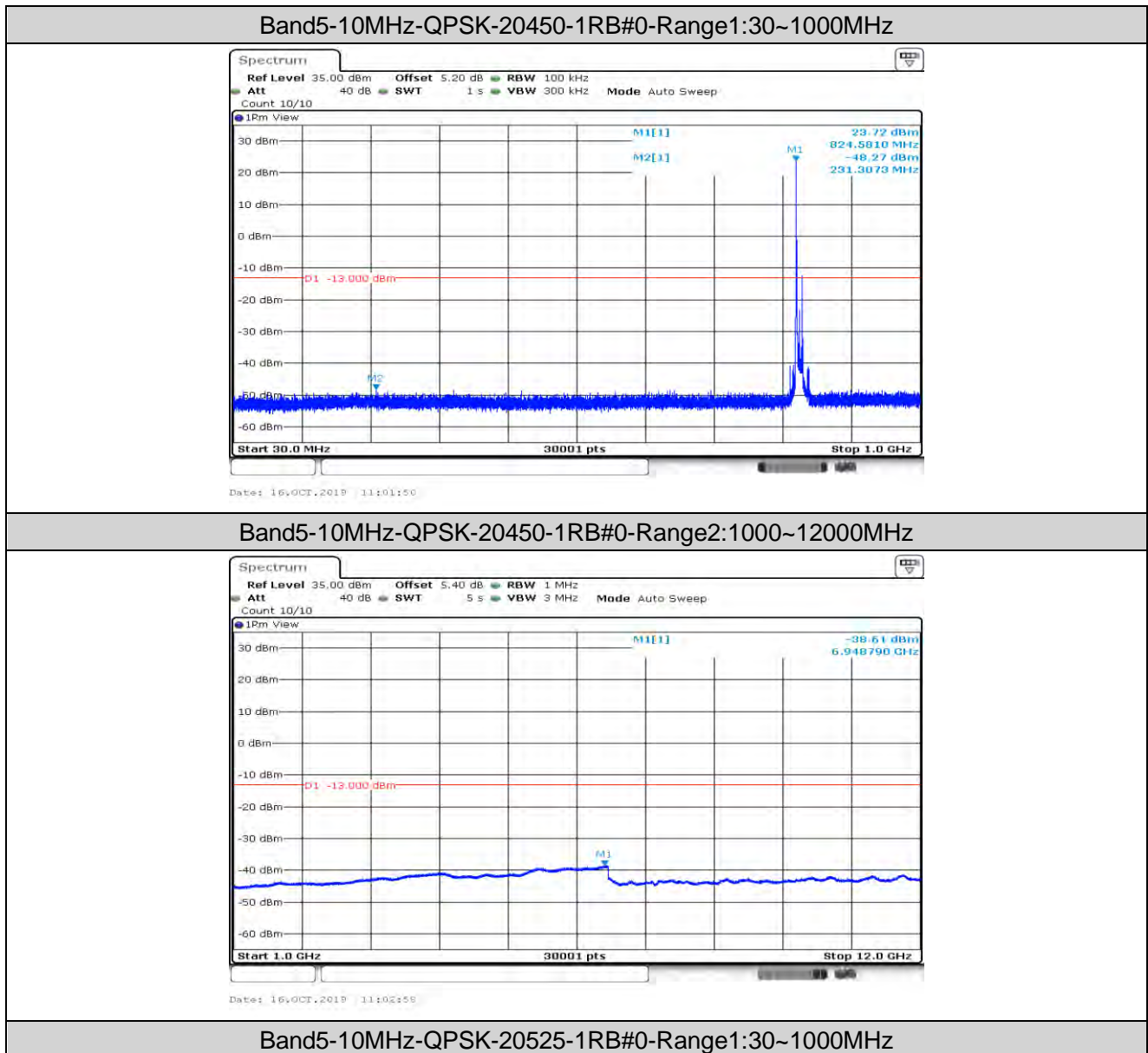
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057    t (86-755) 26012053    f (86-755) 26710594    www.sgs.com.cn  
 中国·深圳·科技园中区M-10栋一号厂房    邮编: 518057    t (86-755) 26012053    f (86-755) 26710594    sgs.china@sgs.com

## 6. Spurious Emission at Antenna Terminal

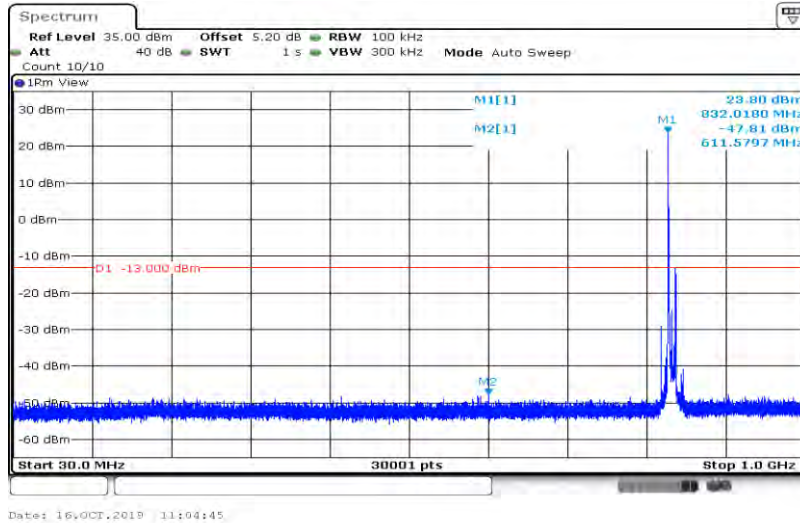
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of  $< RBW/2$  so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points =  $k * (Span / RBW)$ " with  $k$  between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

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

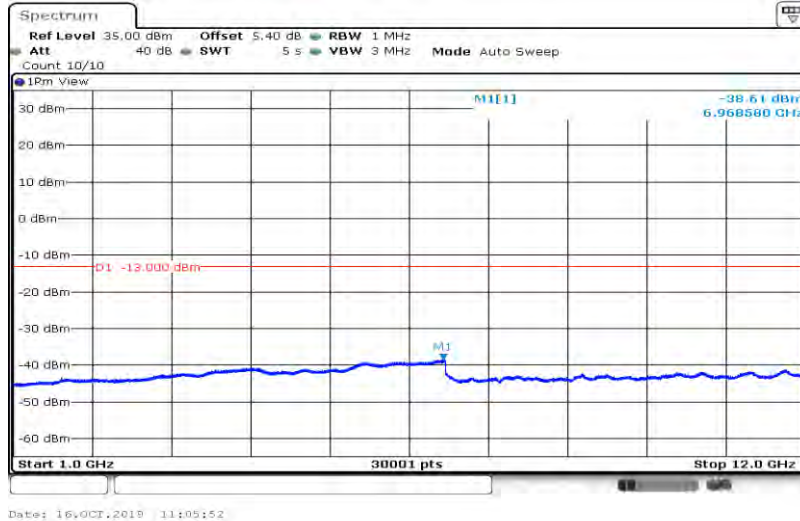
### 6.1. Test Plots



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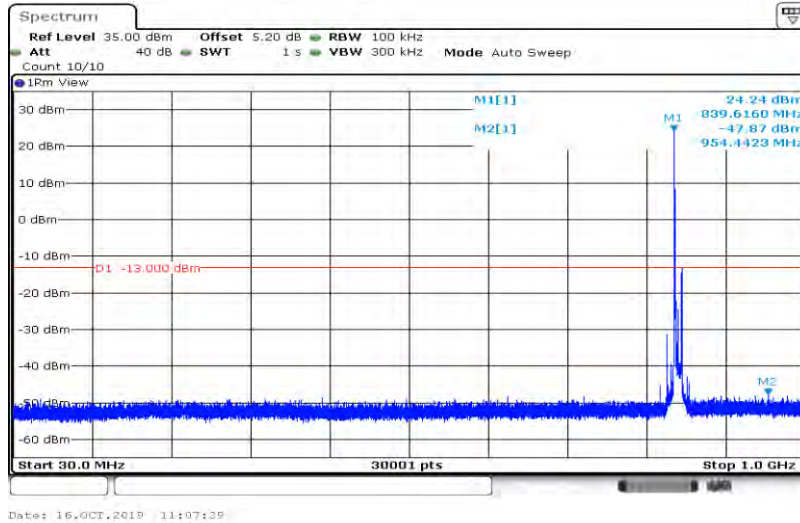
**Band5-10MHz-QPSK-20525-1RB#0-Range2:1000~12000MHz**



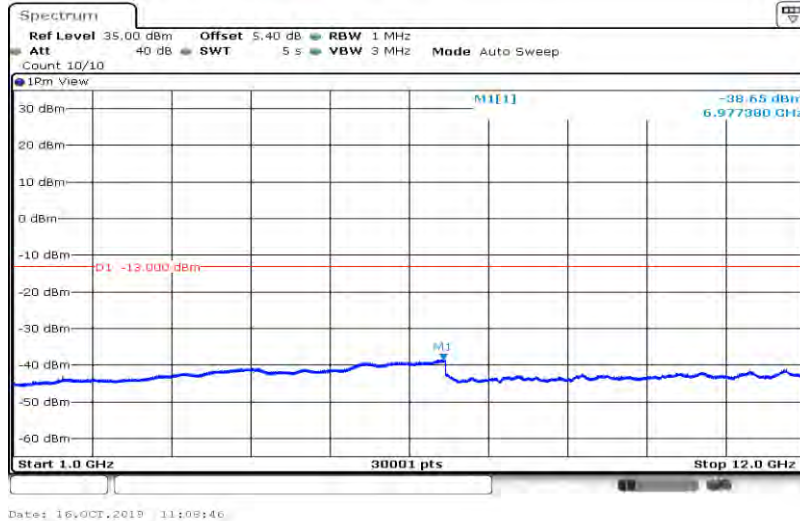
**Band5-10MHz-QPSK-20600-1RB#0-Range1:30~1000MHz**



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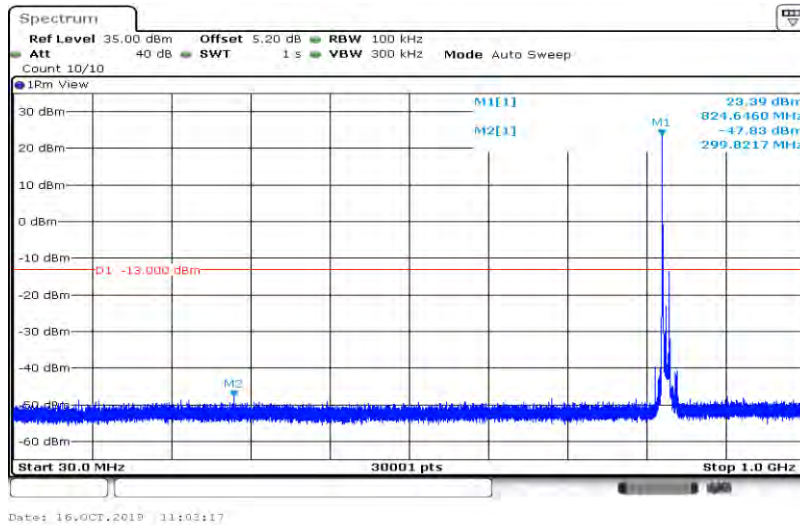
**Band5-10MHz-QPSK-20600-1RB#0-Range2:1000~12000MHz**



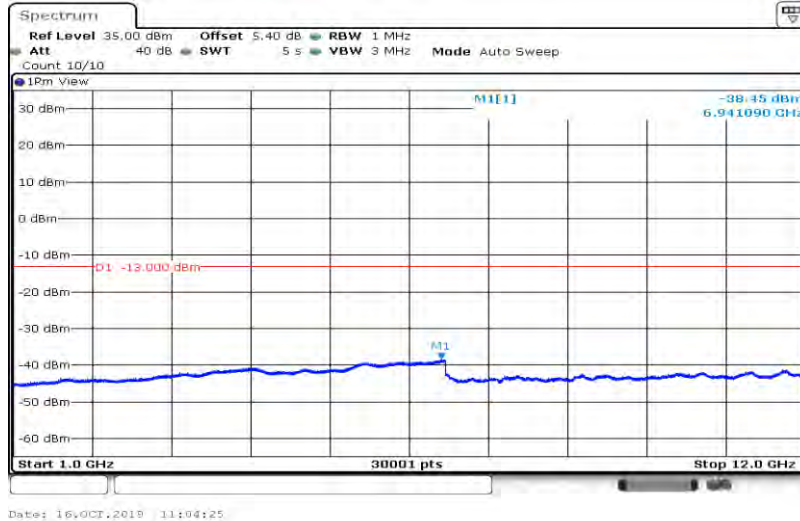
**Band5-10MHz-16QAM-20450-1RB#0-Range1:30~1000MHz**



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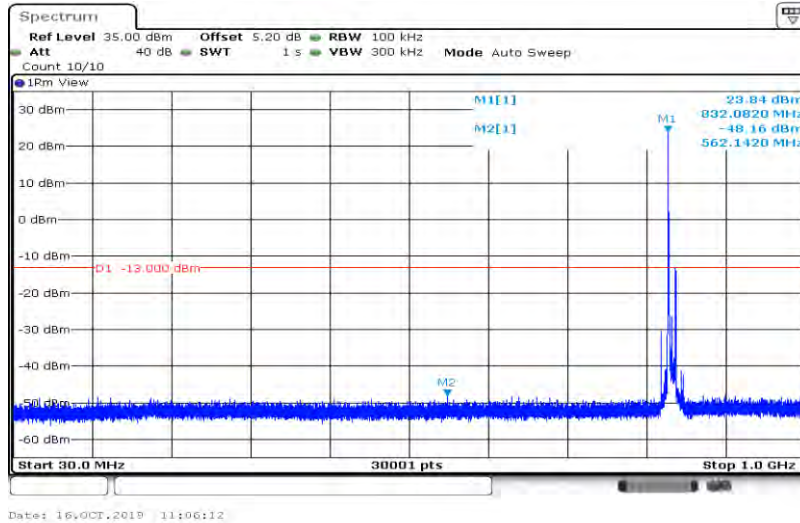
**Band5-10MHz-16QAM-20450-1RB#0-Range2:1000~12000MHz**



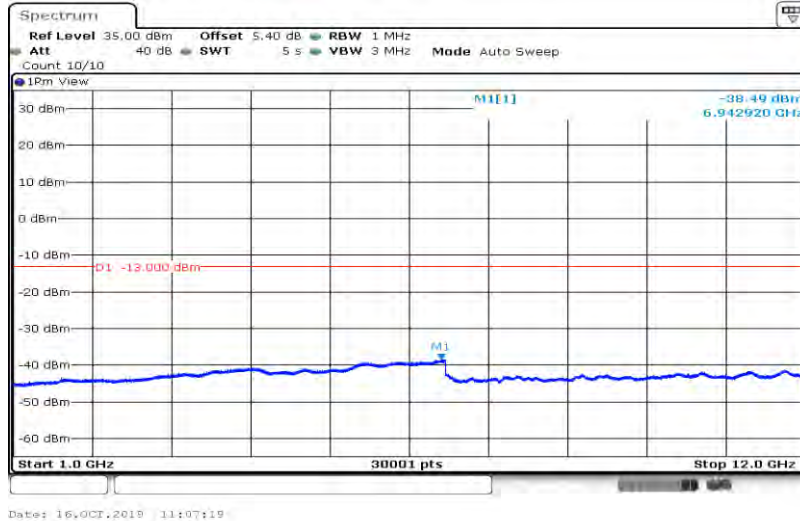
**Band5-10MHz-16QAM-20525-1RB#0-Range1:30~1000MHz**



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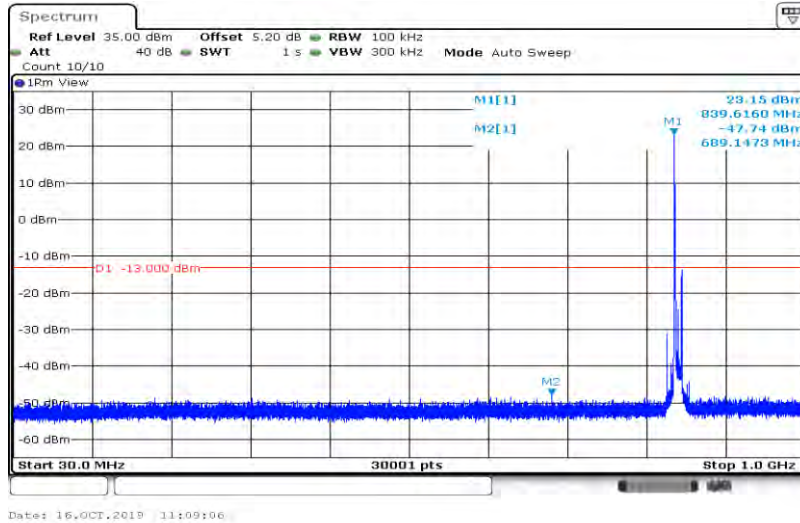
**Band5-10MHz-16QAM-20525-1RB#0-Range2:1000~12000MHz**



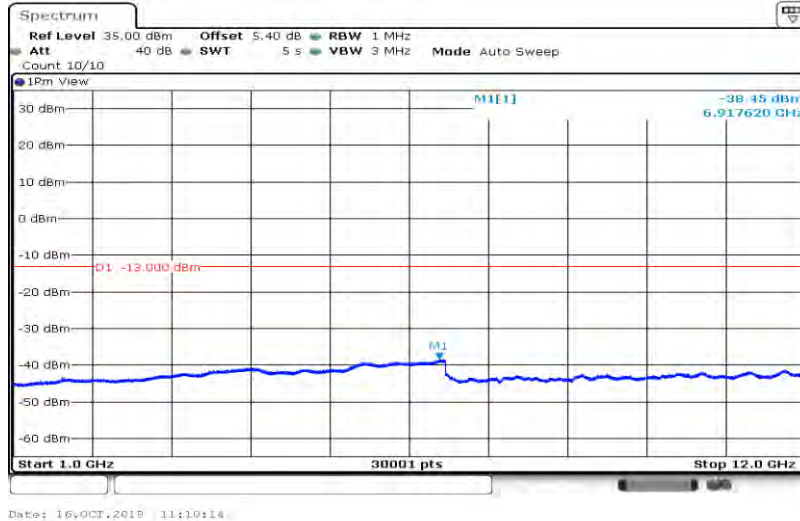
**Band5-10MHz-16QAM-20600-1RB#0-Range1:30~1000MHz**



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**Band5-10MHz-16QAM-20600-1RB#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)	Polarization
53.4752	-69.11	-13.00	56.11	Vertical
106.3428	-62.46	-13.00	49.46	Vertical
291.5251	-65.83	-13.00	52.83	Vertical
1648.9298	-59.99	-13.00	46.99	Vertical
5025.0675	-56.08	-13.00	43.08	Vertical
8822.1941	-51.68	-13.00	38.68	Vertical
40.1370	-61.68	-13.00	48.68	Horizontal
237.3964	-64.52	-13.00	51.52	Horizontal
564.8362	-60.07	-13.00	47.07	Horizontal
1648.9298	-59.43	-13.00	46.43	Horizontal
5616.0872	-55.03	-13.00	42.03	Horizontal
8797.3932	-51.83	-13.00	38.83	Horizontal

#### 7.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
50.1770	-69.59	-13.00	56.59	Vertical
115.0248	-61.91	-13.00	48.91	Vertical
309.6165	-65.16	-13.00	52.16	Vertical
1664.1328	-60.95	-13.00	47.95	Vertical
5013.2671	-56.73	-13.00	43.73	Vertical
8592.7864	-51.37	-13.00	38.37	Vertical
42.5621	-61.59	-13.00	48.59	Horizontal
249.0855	-64.55	-13.00	51.55	Horizontal
446.8298	-63.75	-13.00	50.75	Horizontal
1664.1328	-56.39	-13.00	43.39	Horizontal
2418.2837	-55.02	-13.00	42.02	Horizontal
8004.3668	-52.68	-13.00	39.68	Horizontal



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### 7.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
62.8361	-68.70	-13.00	55.70	Vertical
113.4242	-61.23	-13.00	48.23	Vertical
382.4671	-65.20	-13.00	52.20	Vertical
1678.9358	-60.71	-13.00	47.71	Vertical
2435.4871	-50.52	-13.00	37.52	Vertical
8032.1677	-52.22	-13.00	39.22	Vertical
43.3867	-61.91	-13.00	48.91	Horizontal
93.4897	-72.23	-13.00	59.23	Horizontal
230.7515	-64.60	-13.00	51.60	Horizontal
1678.9358	-57.10	-13.00	44.10	Horizontal
2692.7385	-55.52	-13.00	42.52	Horizontal
8861.1954	-51.81	-13.00	38.81	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
Band5	10MHz	QPSK	20450	50RB#0	VL	NT	-5.90	-0.007117	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VN	NT	-0.10	-0.000121	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VH	NT	-4.90	-0.005911	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VL	NT	-4.10	-0.004901	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VN	NT	-3.60	-0.004304	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VH	NT	-9.00	-0.010759	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VL	NT	-7.20	-0.008531	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VN	NT	-7.20	-0.008531	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VH	NT	-2.90	-0.003436	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VL	NT	-13.60	-0.016405	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VN	NT	-6.10	-0.007358	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VH	NT	-9.30	-0.011218	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VL	NT	-0.70	-0.000837	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VN	NT	-4.90	-0.005858	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VH	NT	-8.00	-0.009564	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VL	NT	-8.10	-0.009597	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VN	NT	-9.10	-0.010782	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VH	NT	-8.40	-0.009953	±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	-6.40	-0.007720	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	-20	-10.20	-0.012304	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	0	-8.20	-0.009891	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	10	-2.70	-0.003257	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	20	0.80	0.000965	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	30	-9.90	-0.011942	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	40	-6.50	-0.007841	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	50	-4.50	-0.005428	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-30	-9.30	-0.011118	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	-6.70	-0.008010	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	0	-9.20	-0.010998	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	10	-6.80	-0.008129	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	20	-7.80	-0.009325	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	30	0.50	0.000598	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	-9.80	-0.011715	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	-7.00	-0.008368	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-30	-6.90	-0.008175	±2.5	PASS



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Band5	10MHz	QPSK	20600	50RB#0	NV	-20	-6.90	-0.008175	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	0	-4.00	-0.004739	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	10	-4.20	-0.004976	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	20	-4.60	-0.005450	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	30	-8.50	-0.010071	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	40	-9.70	-0.011493	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	50	-4.90	-0.005806	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	-30	-8.30	-0.010012	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	-20	-4.60	-0.005549	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	0	-6.30	-0.007600	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	10	-5.10	-0.006152	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	20	-6.30	-0.007600	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	30	-14.00	-0.016888	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	40	-8.20	-0.009891	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	50	-7.00	-0.008444	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-30	-8.70	-0.010400	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-20	-8.00	-0.009564	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	0	-4.50	-0.005380	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	10	-4.40	-0.005260	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	20	-8.60	-0.010281	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	30	-3.70	-0.004423	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	40	-14.00	-0.016736	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	50	-6.00	-0.007173	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	-30	-5.50	-0.006517	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	-20	-5.30	-0.006280	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	0	-6.90	-0.008175	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	10	-10.90	-0.012915	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	20	-2.90	-0.003436	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	30	-10.90	-0.012915	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	40	-1.00	-0.001185	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	50	-8.90	-0.010545	±2.5	PASS

The End



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