



# Appendix B

## E-UTRA Band 30



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# 1 Effective (Isotropic) Radiated Power

## 1.1. Conducted Power Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band30	5MHz	QPSK	27685	1RB#0	22.15	22.37	23.98	PASS
Band30	5MHz	QPSK	27685	1RB#12	22.25	22.47	23.98	PASS
Band30	5MHz	QPSK	27685	1RB#24	22.18	22.4	23.98	PASS
Band30	5MHz	QPSK	27685	12RB#13	20.97	21.19	23.98	PASS
Band30	5MHz	QPSK	27685	12RB#6	21.13	21.35	23.98	PASS
Band30	5MHz	QPSK	27685	12RB#0	21.30	21.52	23.98	PASS
Band30	5MHz	QPSK	27685	25RB#0	21.15	21.37	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#12	22.24	22.46	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#24	22.21	22.43	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#0	22.17	22.39	23.98	PASS
Band30	5MHz	QPSK	27710	12RB#6	21.20	21.42	23.98	PASS
Band30	5MHz	QPSK	27710	12RB#0	21.30	21.52	23.98	PASS
Band30	5MHz	QPSK	27710	12RB#13	21.11	21.33	23.98	PASS
Band30	5MHz	QPSK	27710	25RB#0	21.24	21.46	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#12	21.77	21.99	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#0	22.25	22.47	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#24	21.70	21.92	23.98	PASS
Band30	5MHz	QPSK	27735	12RB#0	21.19	21.41	23.98	PASS
Band30	5MHz	QPSK	27735	12RB#13	21.29	21.51	23.98	PASS
Band30	5MHz	QPSK	27735	12RB#6	21.23	21.45	23.98	PASS
Band30	5MHz	QPSK	27735	25RB#0	21.26	21.48	23.98	PASS
Band30	5MHz	64QAM	27685	1RB#24	19.95	20.17	23.98	PASS
Band30	5MHz	64QAM	27685	1RB#0	19.70	19.92	23.98	PASS
Band30	5MHz	64QAM	27685	1RB#12	19.88	20.1	23.98	PASS
Band30	5MHz	64QAM	27685	12RB#0	19.29	19.51	23.98	PASS
Band30	5MHz	64QAM	27685	12RB#6	19.13	19.35	23.98	PASS
Band30	5MHz	64QAM	27685	12RB#13	18.96	19.18	23.98	PASS



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Band30	5MHz	64QAM	27685	25RB#0	19.15	19.37	23.98	PASS
Band30	5MHz	64QAM	27710	1RB#12	20.28	20.5	23.98	PASS
Band30	5MHz	64QAM	27710	1RB#0	20.05	20.27	23.98	PASS
Band30	5MHz	64QAM	27710	1RB#24	20.05	20.27	23.98	PASS
Band30	5MHz	64QAM	27710	12RB#6	19.15	19.37	23.98	PASS
Band30	5MHz	64QAM	27710	12RB#13	19.07	19.29	23.98	PASS
Band30	5MHz	64QAM	27710	12RB#0	19.31	19.53	23.98	PASS
Band30	5MHz	64QAM	27710	25RB#0	19.23	19.45	23.98	PASS
Band30	5MHz	64QAM	27735	1RB#12	20.27	20.49	23.98	PASS
Band30	5MHz	64QAM	27735	1RB#24	19.71	19.93	23.98	PASS
Band30	5MHz	64QAM	27735	1RB#0	20.04	20.26	23.98	PASS
Band30	5MHz	64QAM	27735	12RB#6	19.14	19.36	23.98	PASS
Band30	5MHz	64QAM	27735	12RB#0	19.21	19.43	23.98	PASS
Band30	5MHz	64QAM	27735	12RB#13	19.17	19.39	23.98	PASS
Band30	5MHz	64QAM	27735	25RB#0	19.25	19.47	23.98	PASS
Band30	5MHz	256QAM	27685	1RB#0	17.33	17.55	23.98	PASS
Band30	5MHz	256QAM	27685	1RB#12	17.49	17.71	23.98	PASS
Band30	5MHz	256QAM	27685	1RB#24	17.50	17.72	23.98	PASS
Band30	5MHz	256QAM	27685	12RB#13	17.09	17.31	23.98	PASS
Band30	5MHz	256QAM	27685	12RB#0	17.30	17.52	23.98	PASS
Band30	5MHz	256QAM	27685	12RB#6	17.28	17.5	23.98	PASS
Band30	5MHz	256QAM	27685	25RB#0	17.27	17.49	23.98	PASS
Band30	5MHz	256QAM	27710	1RB#12	17.59	17.81	23.98	PASS
Band30	5MHz	256QAM	27710	1RB#24	17.53	17.75	23.98	PASS
Band30	5MHz	256QAM	27710	1RB#0	17.46	17.68	23.98	PASS
Band30	5MHz	256QAM	27710	12RB#13	17.18	17.4	23.98	PASS
Band30	5MHz	256QAM	27710	12RB#0	17.53	17.75	23.98	PASS
Band30	5MHz	256QAM	27710	12RB#6	17.36	17.58	23.98	PASS
Band30	5MHz	256QAM	27710	25RB#0	17.46	17.68	23.98	PASS
Band30	5MHz	256QAM	27735	1RB#24	17.60	17.82	23.98	PASS
Band30	5MHz	256QAM	27735	1RB#12	17.53	17.75	23.98	PASS
Band30	5MHz	256QAM	27735	1RB#0	17.55	17.77	23.98	PASS
Band30	5MHz	256QAM	27735	12RB#0	17.52	17.74	23.98	PASS



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Band30	5MHz	256QAM	27735	12RB#6	17.36	17.58	23.98	PASS
Band30	5MHz	256QAM	27735	12RB#13	17.39	17.61	23.98	PASS
Band30	5MHz	256QAM	27735	25RB#0	17.48	17.7	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#24	21.34	21.56	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#12	21.39	21.61	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#0	21.35	21.57	23.98	PASS
Band30	5MHz	16QAM	27685	12RB#0	20.28	20.5	23.98	PASS
Band30	5MHz	16QAM	27685	12RB#6	20.09	20.31	23.98	PASS
Band30	5MHz	16QAM	27685	12RB#13	19.99	20.21	23.98	PASS
Band30	5MHz	16QAM	27685	25RB#0	20.14	20.36	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#24	21.35	21.57	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#0	21.27	21.49	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#12	21.32	21.54	23.98	PASS
Band30	5MHz	16QAM	27710	12RB#6	20.18	20.4	23.98	PASS
Band30	5MHz	16QAM	27710	12RB#0	20.33	20.55	23.98	PASS
Band30	5MHz	16QAM	27710	12RB#13	20.09	20.31	23.98	PASS
Band30	5MHz	16QAM	27710	25RB#0	20.23	20.45	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#0	21.39	21.61	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#12	20.98	21.2	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#24	20.78	21	23.98	PASS
Band30	5MHz	16QAM	27735	12RB#0	20.23	20.45	23.98	PASS
Band30	5MHz	16QAM	27735	12RB#6	20.22	20.44	23.98	PASS
Band30	5MHz	16QAM	27735	12RB#13	20.28	20.5	23.98	PASS
Band30	5MHz	16QAM	27735	25RB#0	20.28	20.5	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#49	21.65	21.87	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#24	21.75	21.97	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#0	21.68	21.9	23.98	PASS
Band30	10MHz	QPSK	27710	25RB#12	21.19	21.41	23.98	PASS
Band30	10MHz	QPSK	27710	25RB#25	21.25	21.47	23.98	PASS
Band30	10MHz	QPSK	27710	25RB#0	21.47	21.69	23.98	PASS
Band30	10MHz	QPSK	27710	50RB#0	21.36	21.58	23.98	PASS
Band30	10MHz	64QAM	27710	1RB#49	19.81	20.03	23.98	PASS
Band30	10MHz	64QAM	27710	1RB#24	20.22	20.44	23.98	PASS



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Band30	10MHz	64QAM	27710	1RB#0	19.76	19.98	23.98	PASS
Band30	10MHz	64QAM	27710	25RB#25	19.16	19.38	23.98	PASS
Band30	10MHz	64QAM	27710	25RB#0	19.47	19.69	23.98	PASS
Band30	10MHz	64QAM	27710	25RB#12	19.18	19.4	23.98	PASS
Band30	10MHz	64QAM	27710	50RB#0	19.35	19.57	23.98	PASS
Band30	10MHz	256QAM	27710	1RB#49	17.47	17.69	23.98	PASS
Band30	10MHz	256QAM	27710	1RB#24	17.57	17.79	23.98	PASS
Band30	10MHz	256QAM	27710	1RB#0	17.40	17.62	23.98	PASS
Band30	10MHz	256QAM	27710	25RB#0	17.66	17.88	23.98	PASS
Band30	10MHz	256QAM	27710	25RB#12	17.42	17.64	23.98	PASS
Band30	10MHz	256QAM	27710	25RB#25	17.30	17.52	23.98	PASS
Band30	10MHz	256QAM	27710	50RB#0	17.54	17.76	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#49	20.79	21.01	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#0	20.76	20.98	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#24	20.85	21.07	23.98	PASS
Band30	10MHz	16QAM	27710	25RB#25	20.19	20.41	23.98	PASS
Band30	10MHz	16QAM	27710	25RB#0	20.49	20.71	23.98	PASS
Band30	10MHz	16QAM	27710	25RB#12	20.18	20.4	23.98	PASS
Band30	10MHz	16QAM	27710	50RB#0	20.39	20.61	23.98	PASS



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## 2.1. EIRP Density Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power Density (dBm/5MHz)	EIRP Density (dBm/5MHz)	Limit (dBm/5MHz)	Result
Band30	5MHz	QPSK	27685	1RB#0	22.71	22.93	23.98	Pass
Band30	5MHz	QPSK	27685	1RB#12	22.86	23.08	23.98	Pass
Band30	5MHz	QPSK	27685	1RB#24	22.76	22.98	23.98	Pass
Band30	5MHz	QPSK	27710	1RB#0	22.73	22.95	23.98	Pass
Band30	5MHz	QPSK	27710	1RB#12	22.89	23.11	23.98	Pass
Band30	5MHz	QPSK	27710	1RB#24	22.87	23.09	23.98	Pass
Band30	5MHz	QPSK	27735	1RB#0	22.35	22.57	23.98	Pass
Band30	5MHz	QPSK	27735	1RB#12	22.46	22.68	23.98	Pass
Band30	5MHz	QPSK	27735	1RB#24	22.43	22.65	23.98	Pass
Band30	10MHz	QPSK	27710	1RB#0	22.75	22.97	23.98	Pass
Band30	10MHz	QPSK	27710	1RB#24	22.89	23.11	23.98	Pass
Band30	10MHz	QPSK	27710	1RB#49	22.67	22.89	23.98	Pass

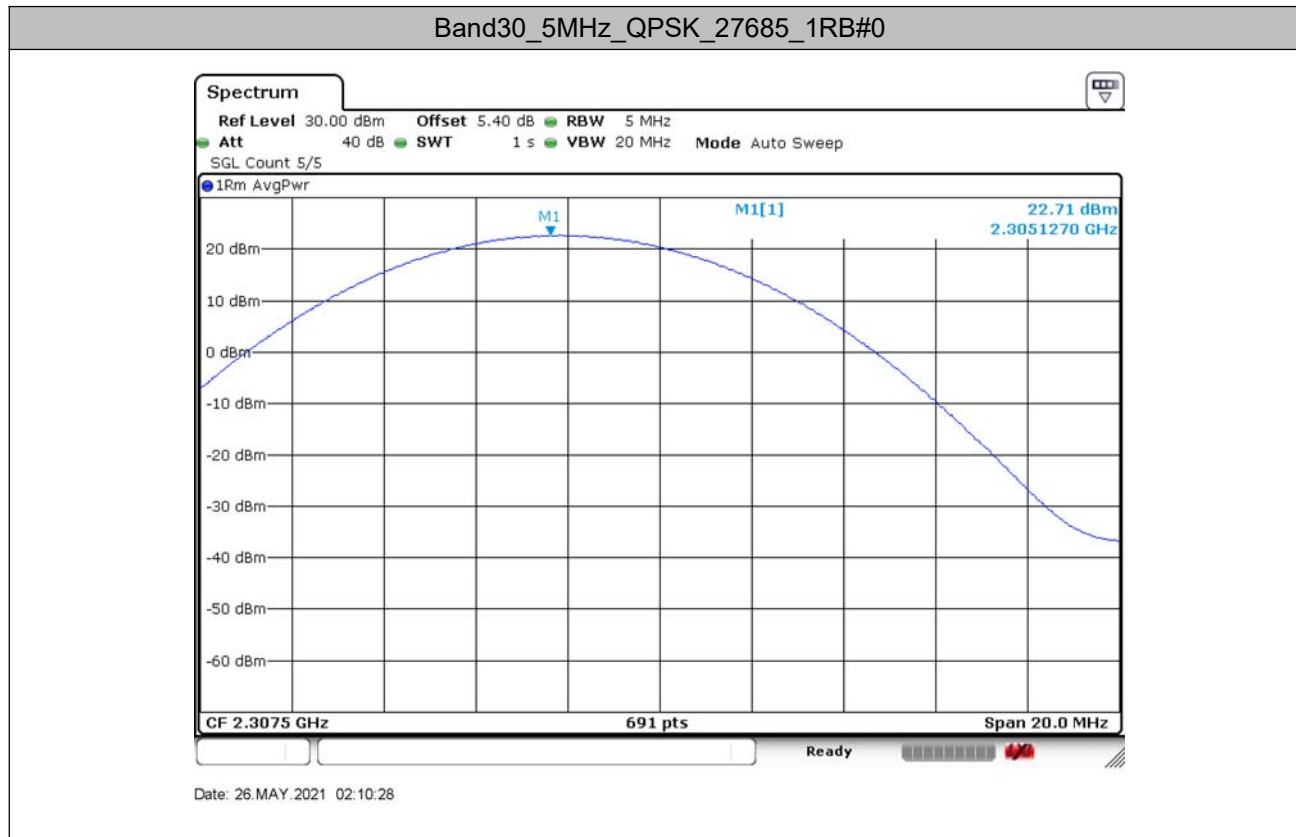


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### 2.1.1. Test Plots



Date: 26.MAY.2021 02:10:28



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Band30\_5MHz\_QPSK\_27685\_1RB#12



Date: 26.MAY.2021 02:11:03

Band30\_5MHz\_QPSK\_27685\_1RB#24

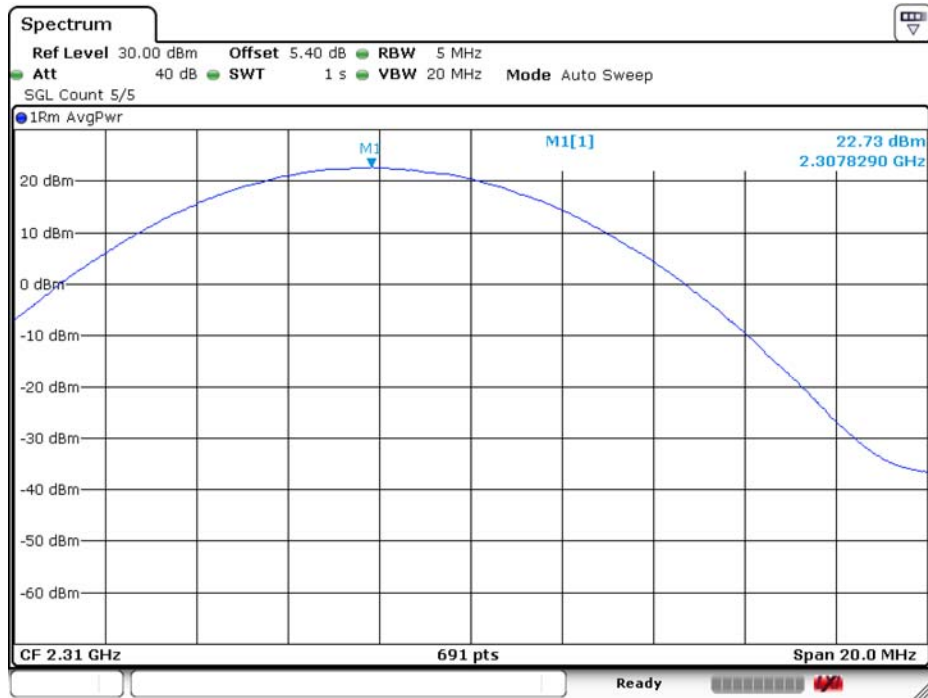


Date: 26.MAY.2021 02:12:48



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Band30\_5MHz\_QPSK\_27710\_1RB#0



Date: 26.MAY.2021 02:14:09

Band30\_5MHz\_QPSK\_27710\_1RB#12



Date: 26.MAY.2021 02:13:50



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Band30\_5MHz\_QPSK\_27710\_1RB#24



Date: 26.MAY.2021 02:13:34

Band30\_5MHz\_QPSK\_27735\_1RB#0

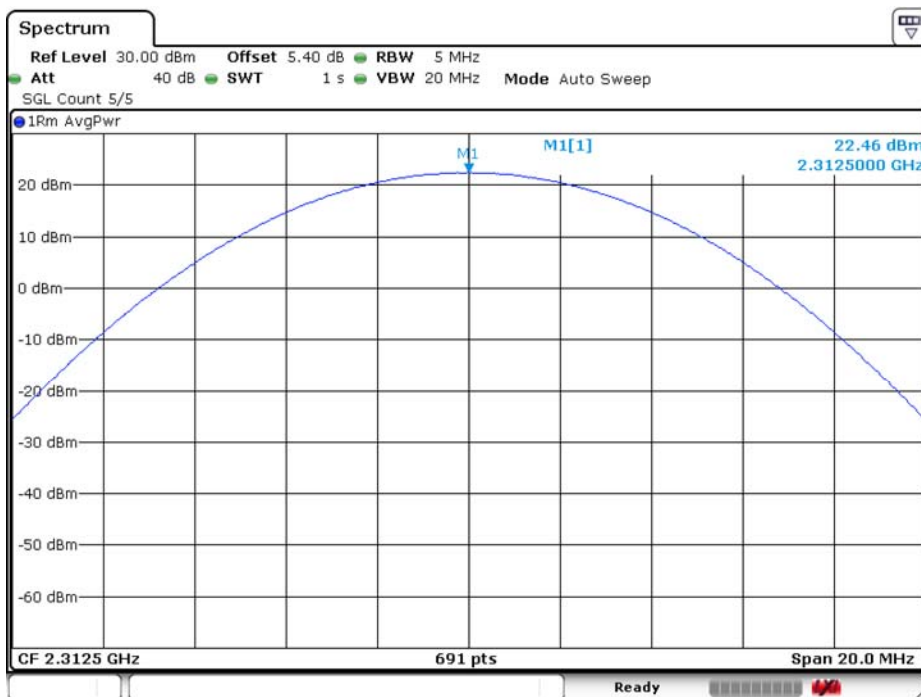


Date: 26.MAY.2021 02:15:52



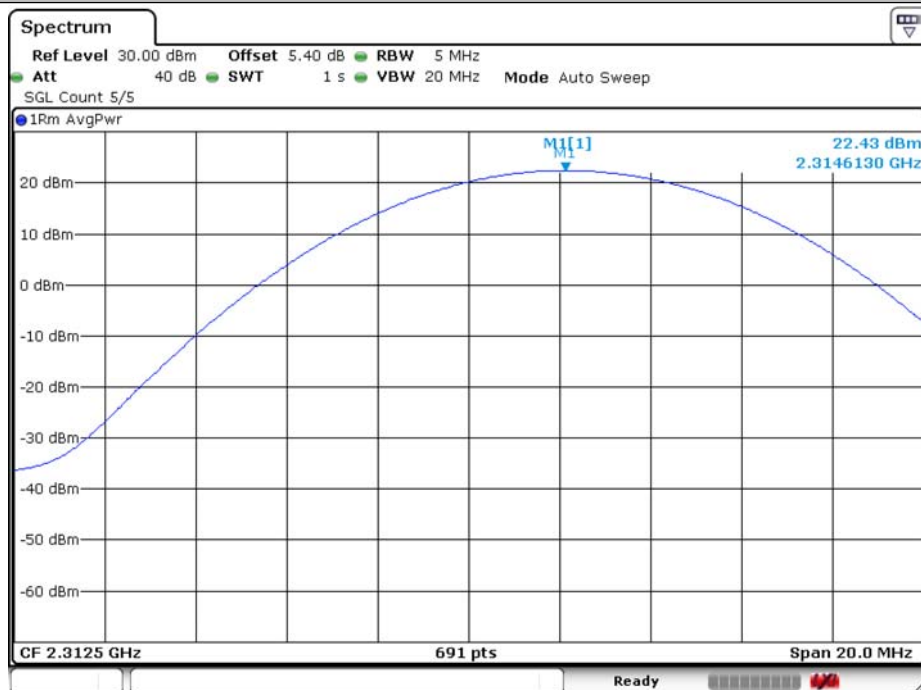
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**Band30\_5MHz\_QPSK\_27735\_1RB#12**



Date: 26.MAY.2021 02:16:11

**Band30\_5MHz\_QPSK\_27735\_1RB#24**

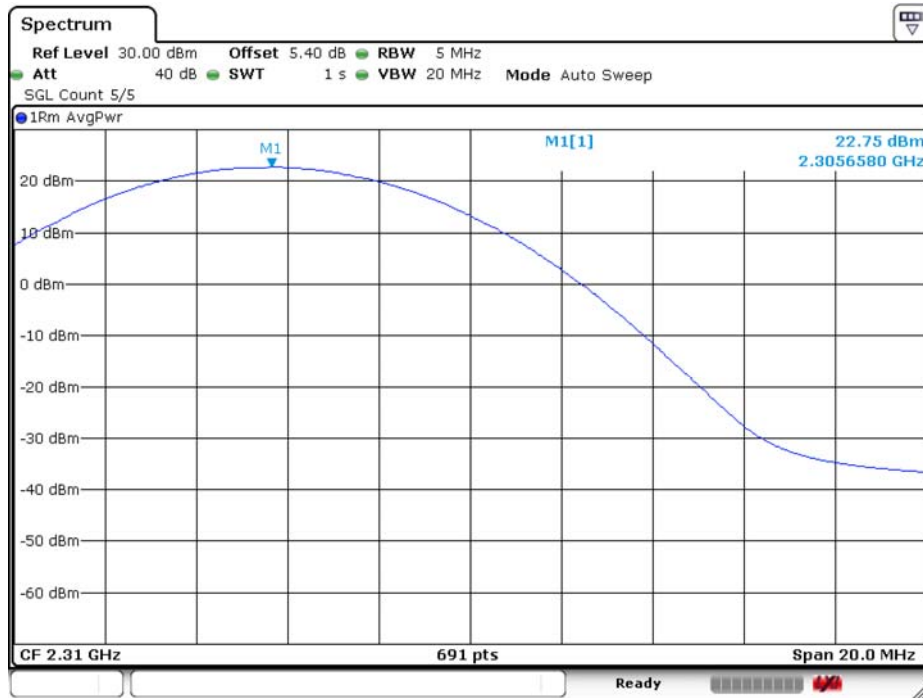


Date: 26.MAY.2021 02:16:34



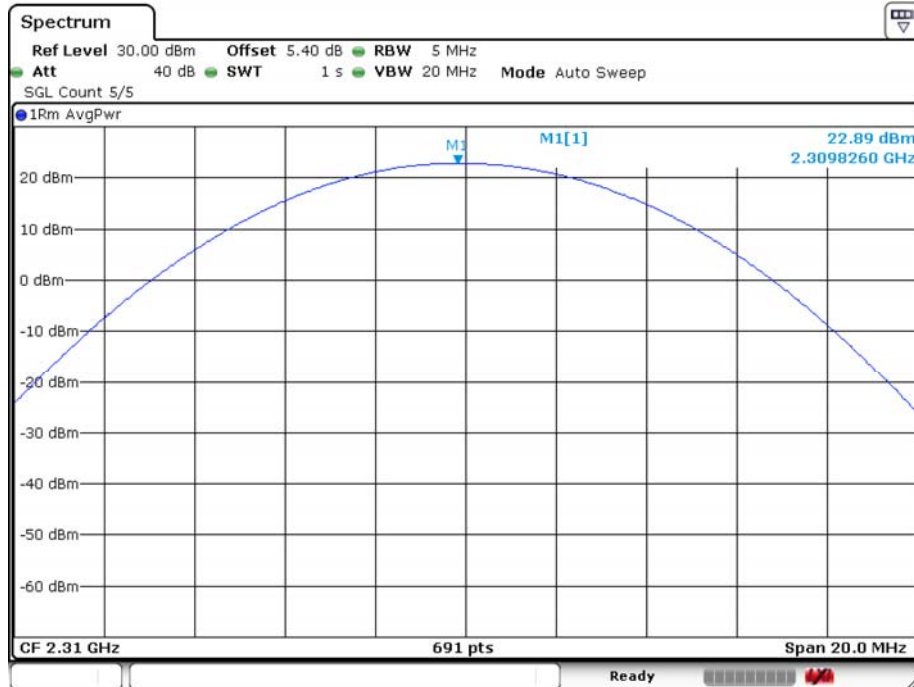
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Band30\_10MHz\_QPSK\_27710\_1RB#0



Date: 26.MAY.2021 02:17:48

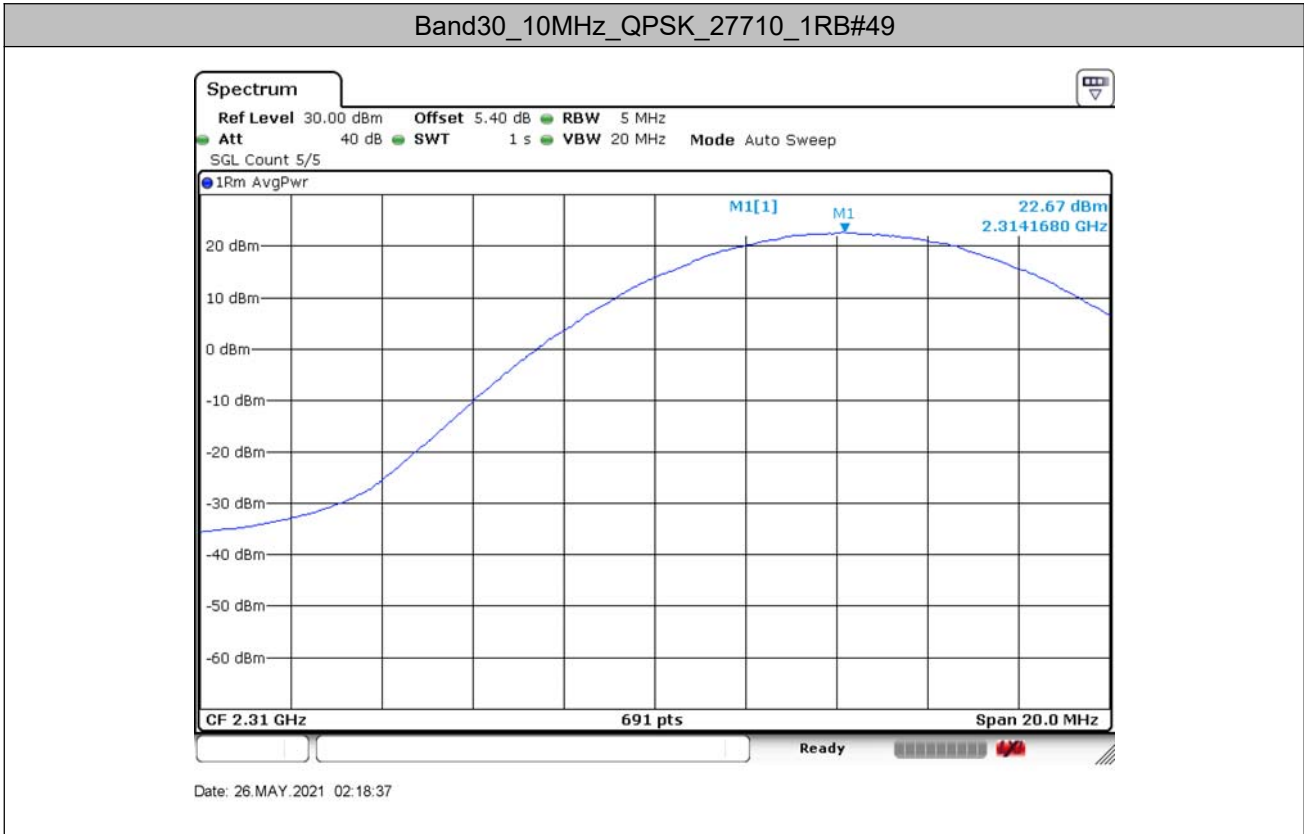
Band30\_10MHz\_QPSK\_27710\_1RB#24



Date: 26.MAY.2021 02:18:13



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**Remark:**

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

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

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



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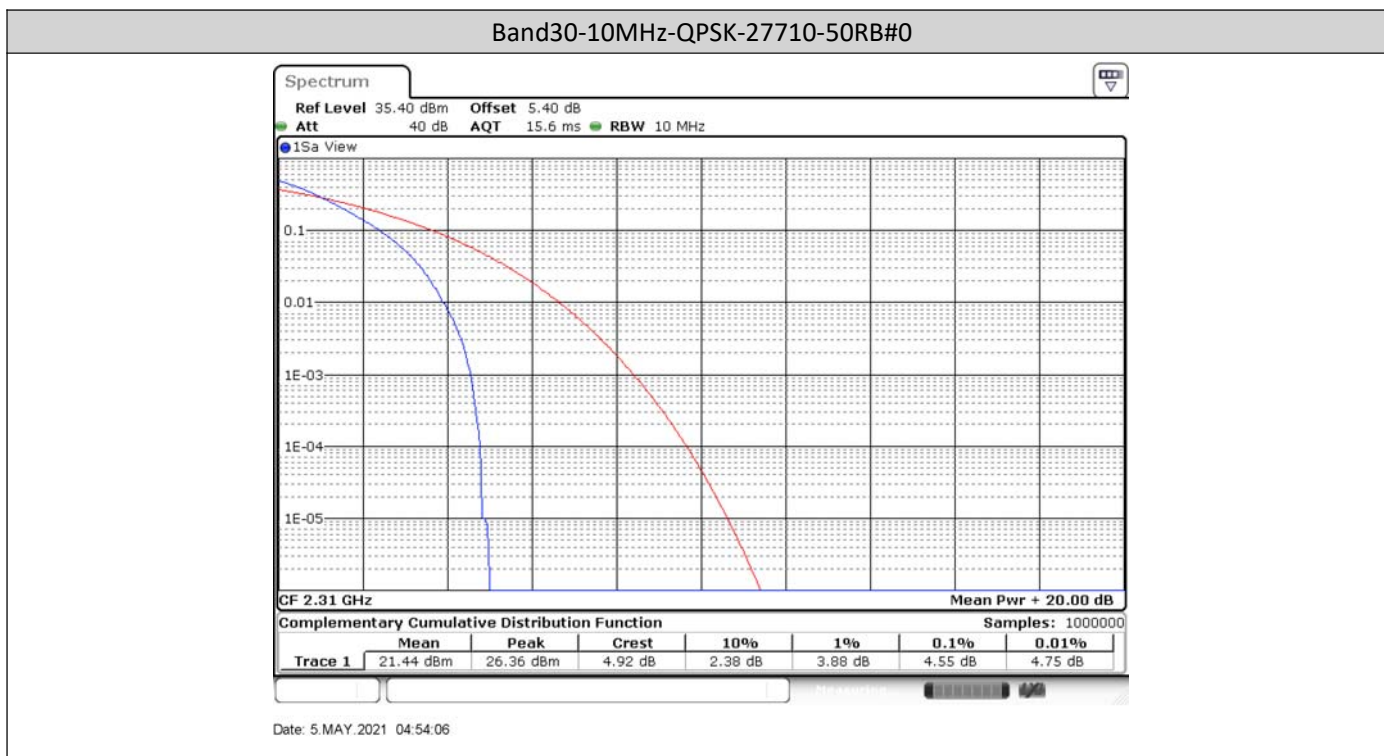


## 2. Peak-to-Average Ratio (CCDF)

### 2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band30	10MHz	QPSK	27710	50RB#0	4.55	13	PASS
Band30	10MHz	64QAM	27710	50RB#0	5.97	13	PASS
Band30	10MHz	256QAM	27710	50RB#0	5.28	13	PASS
Band30	10MHz	16QAM	27710	50RB#0	5.28	13	PASS

### 2.2. Test Plots



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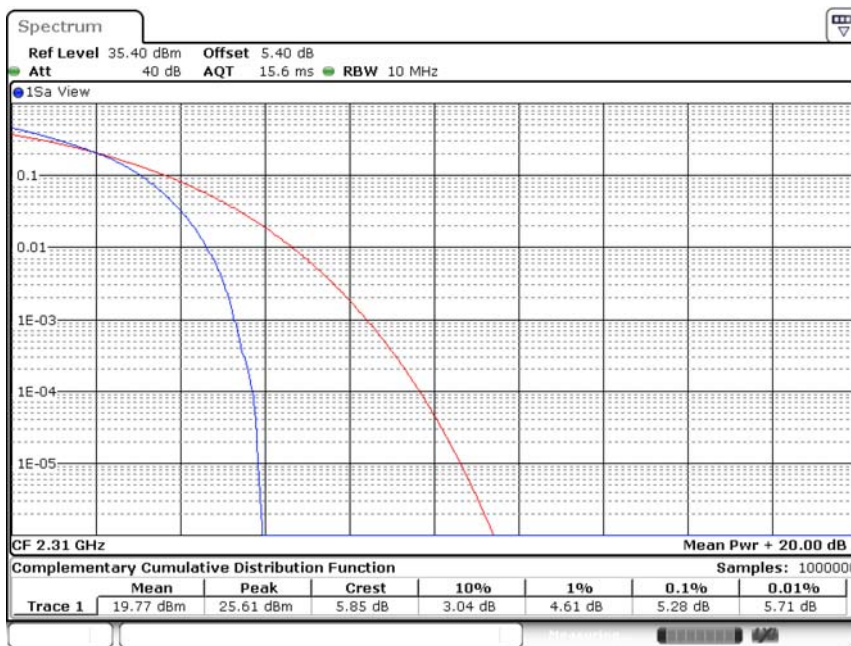


**Band30-10MHz-64QAM-27710-50RB#0**



Date: 17.MAY.2021 00:32:25

**Band30-10MHz-256QAM-27710-50RB#0**

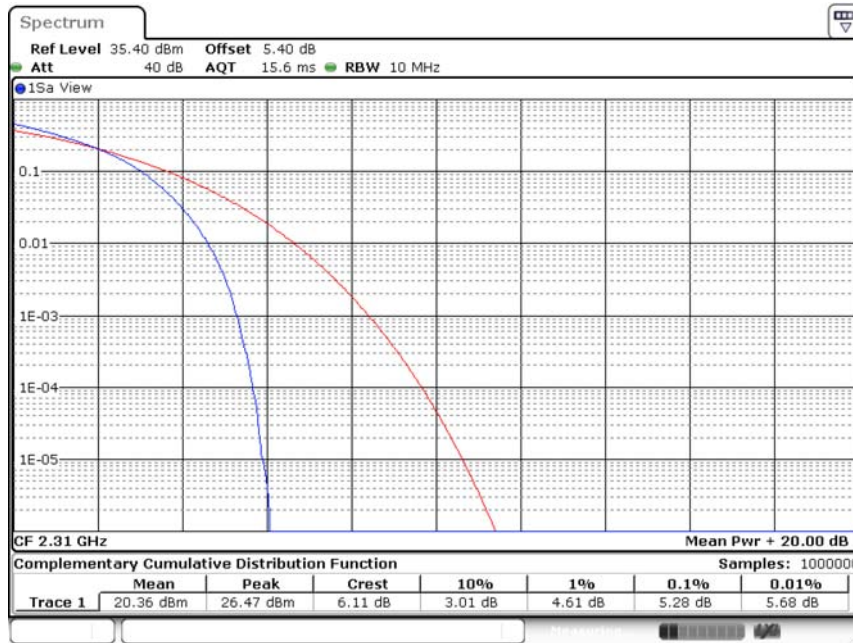


Date: 7.MAY.2021 03:22:51



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Band30-10MHz-16QAM-27710-50RB#0



Date: 5.MAY.2021 04:54:17

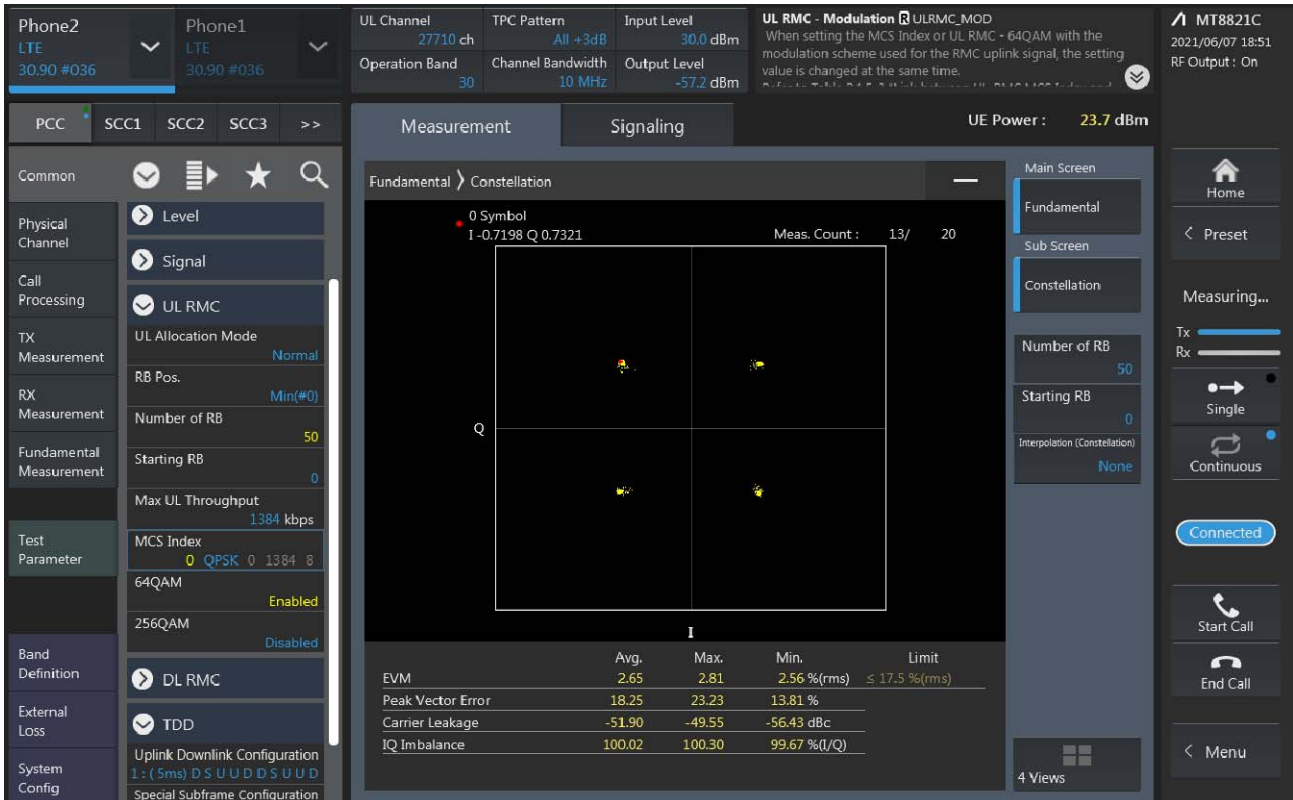


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### 3. Modulation Characteristics

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

##### 3.1.1. Test Channel = MCH

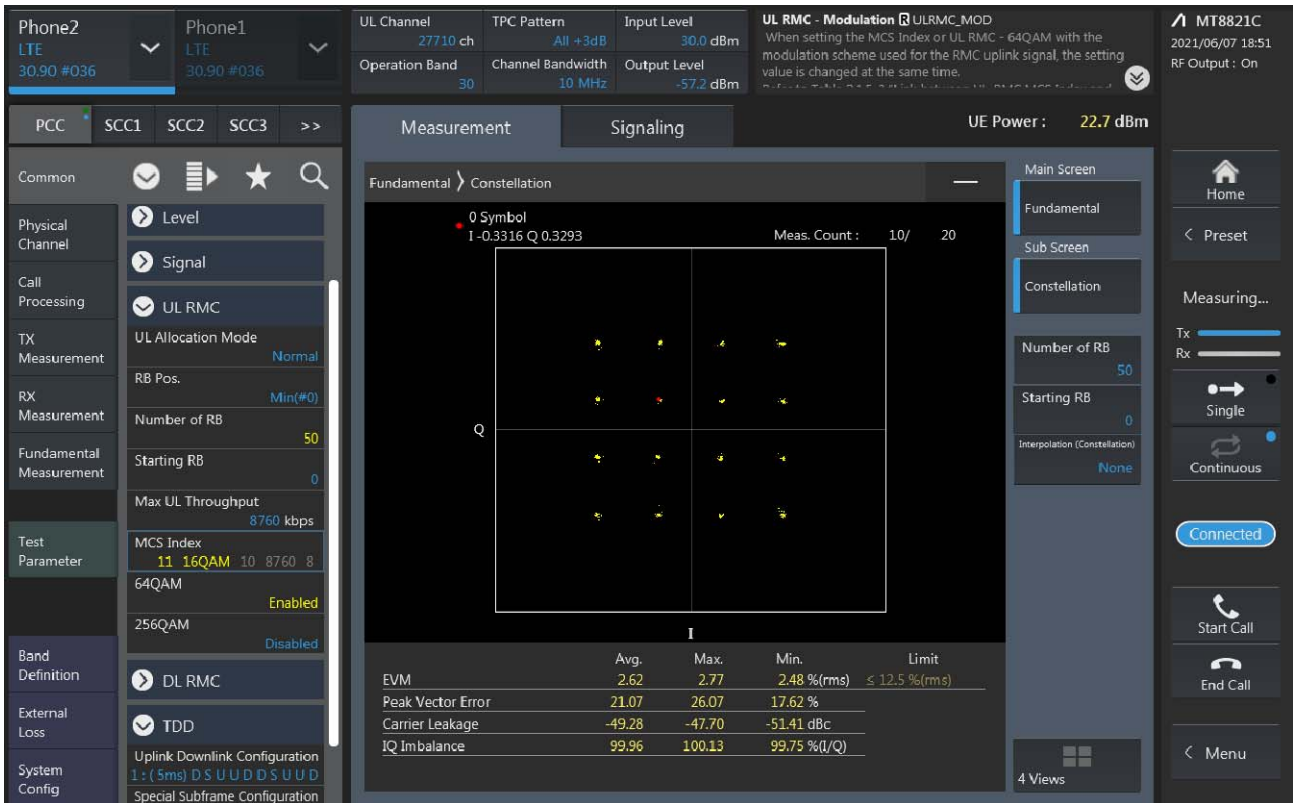


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### 3.2. Test Mode = LTE /TM2 10MHz

#### 3.2.1. Test Channel = MCH



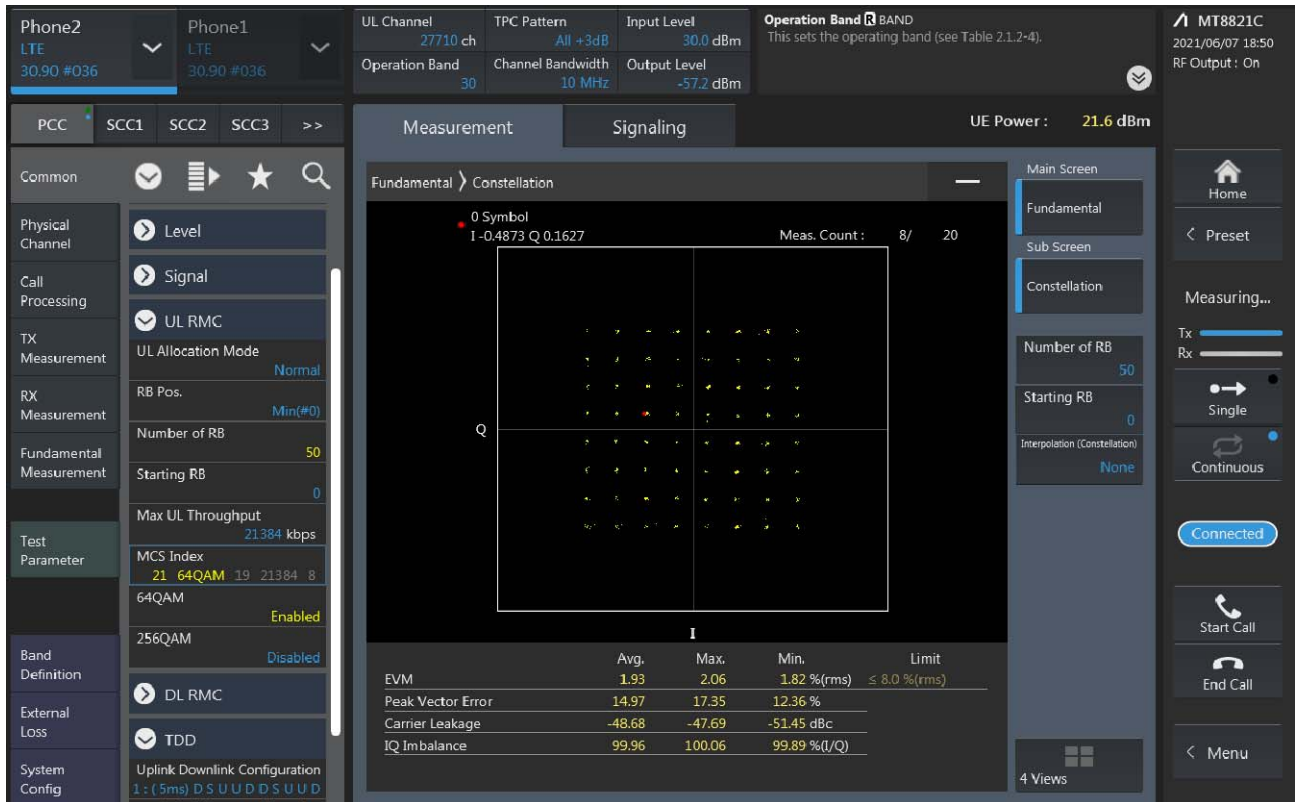
### 3.3. Test Mode = LTE /TM3 10MHz

#### 3.3.1. Test Channel = MCH



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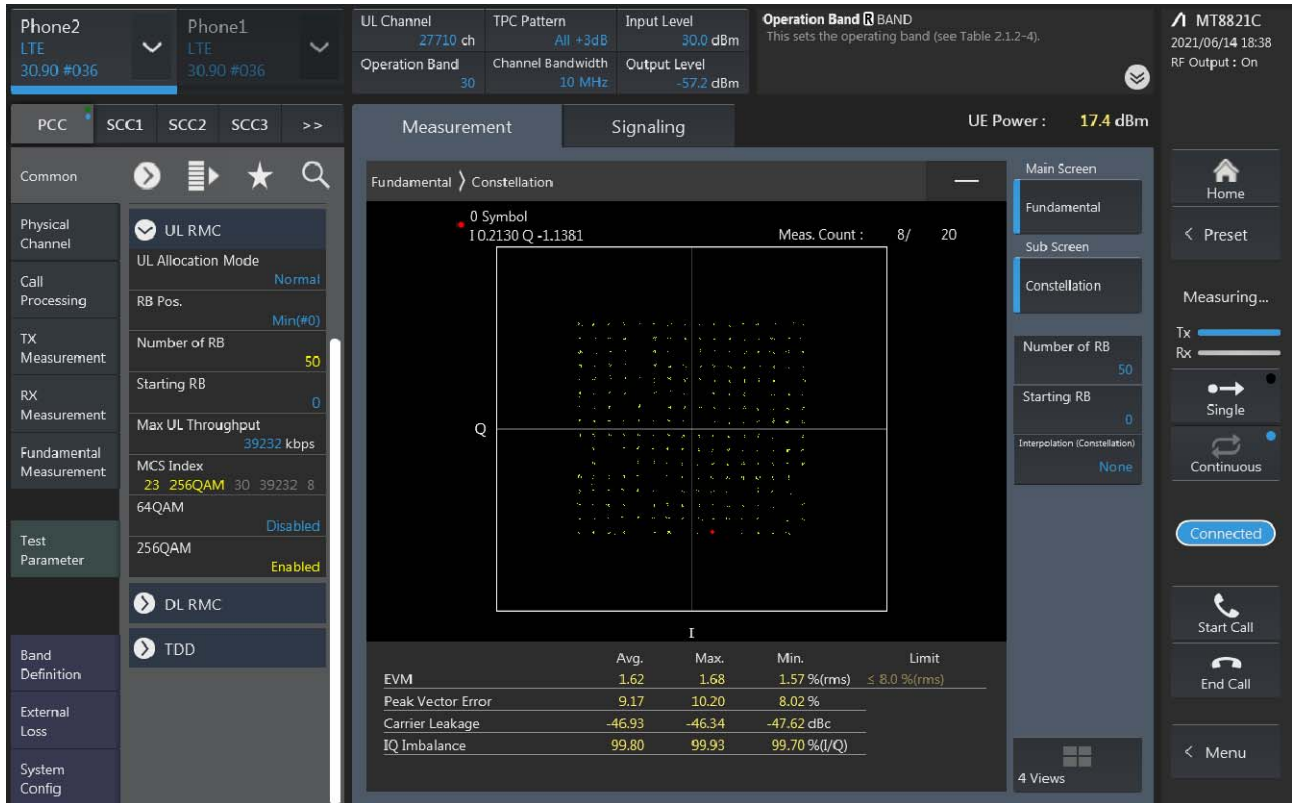
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### 3.4. Test Mode = LTE /TM4 10MHz

#### 3.4.1. 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
Band30	5MHz	QPSK	27685	25RB#0	4.476	4.850	PASS
Band30	5MHz	QPSK	27710	25RB#0	4.486	4.880	PASS
Band30	5MHz	QPSK	27735	25RB#0	4.476	4.890	PASS
Band30	5MHz	64QAM	27685	25RB#0	4.466	4.850	PASS
Band30	5MHz	64QAM	27710	25RB#0	4.476	4.890	PASS
Band30	5MHz	64QAM	27735	25RB#0	4.476	4.910	PASS
Band30	5MHz	256QAM	27685	25RB#0	4.476	4.850	PASS
Band30	5MHz	256QAM	27710	25RB#0	4.476	4.860	PASS
Band30	5MHz	256QAM	27735	25RB#0	4.476	4.880	PASS
Band30	5MHz	16QAM	27685	25RB#0	4.486	4.880	PASS
Band30	5MHz	16QAM	27710	25RB#0	4.496	4.900	PASS
Band30	5MHz	16QAM	27735	25RB#0	4.496	4.930	PASS
Band30	10MHz	QPSK	27710	50RB#0	8.971	9.660	PASS
Band30	10MHz	64QAM	27710	50RB#0	8.931	9.560	PASS
Band30	10MHz	256QAM	27710	50RB#0	8.951	9.600	PASS
Band30	10MHz	16QAM	27710	50RB#0	8.951	9.880	PASS

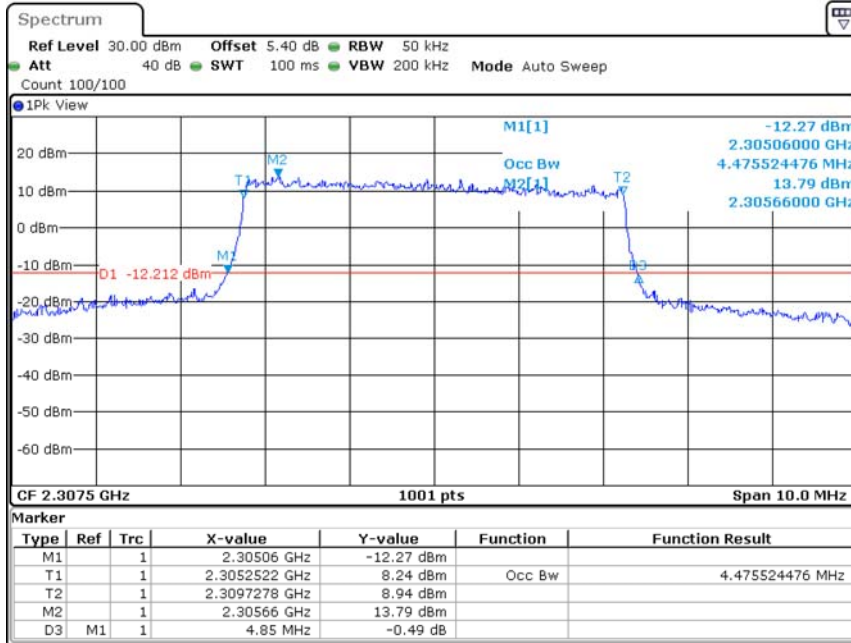


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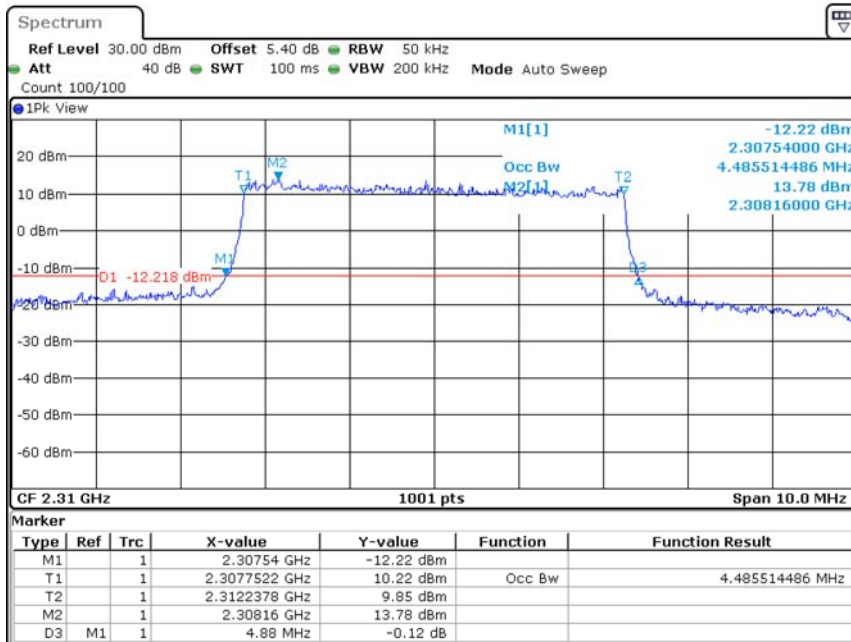
### 4.2. Test Plots

Band30-5MHz-QPSK-27685-25RB#0-4.476



Date: 16.MAY.2021 13:29:35

Band30-5MHz-QPSK-27710-25RB#0-4.486



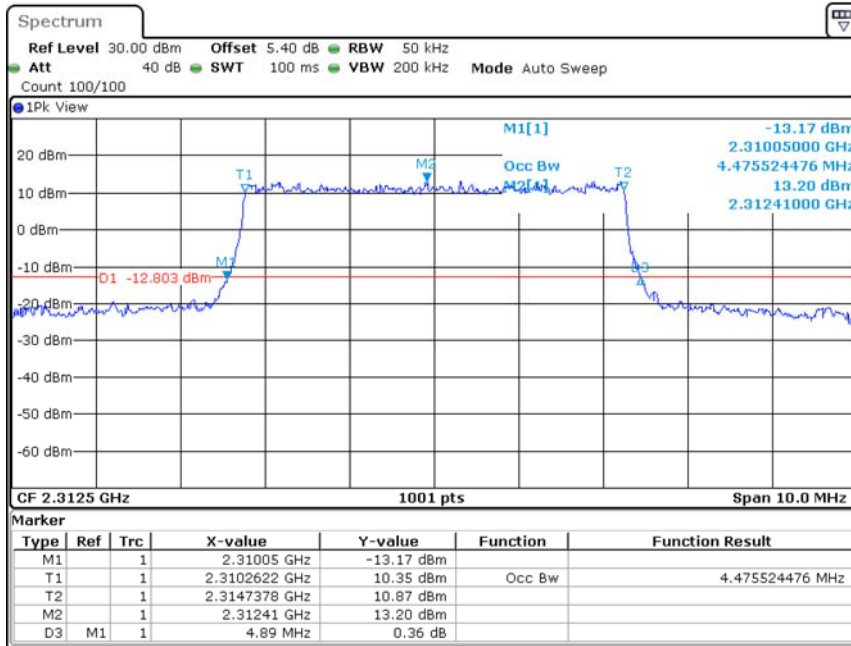
Date: 16.MAY.2021 13:30:15



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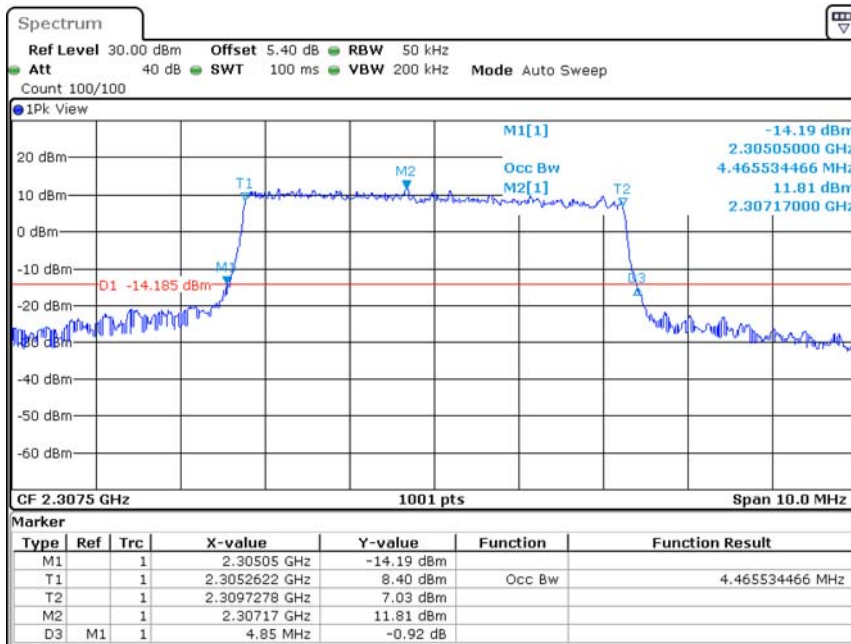


**Band30-5MHz-QPSK-27735-25RB#0-4.476**



Date: 16.MAY.2021 13:30:54

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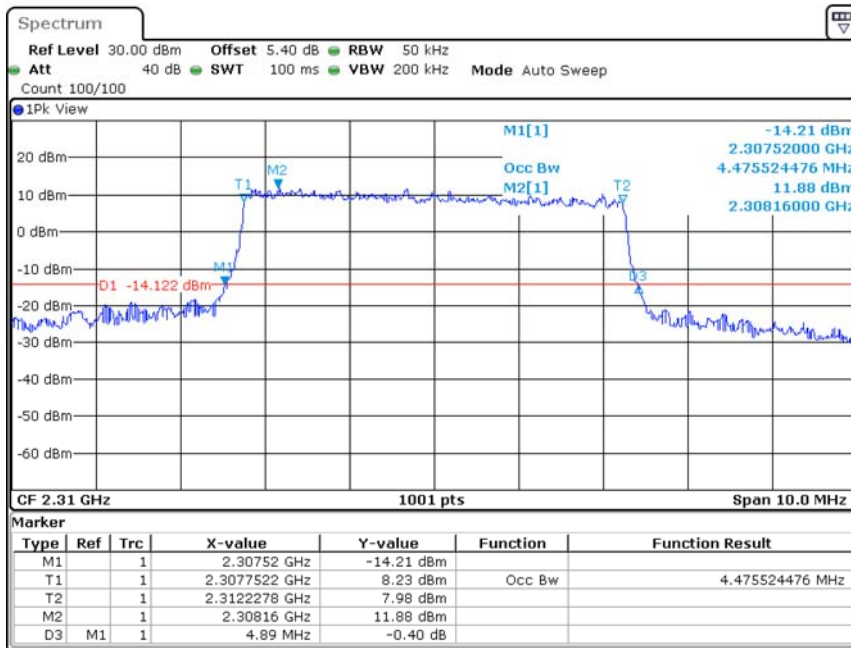
Date: 17.MAY.2021 00:24:28



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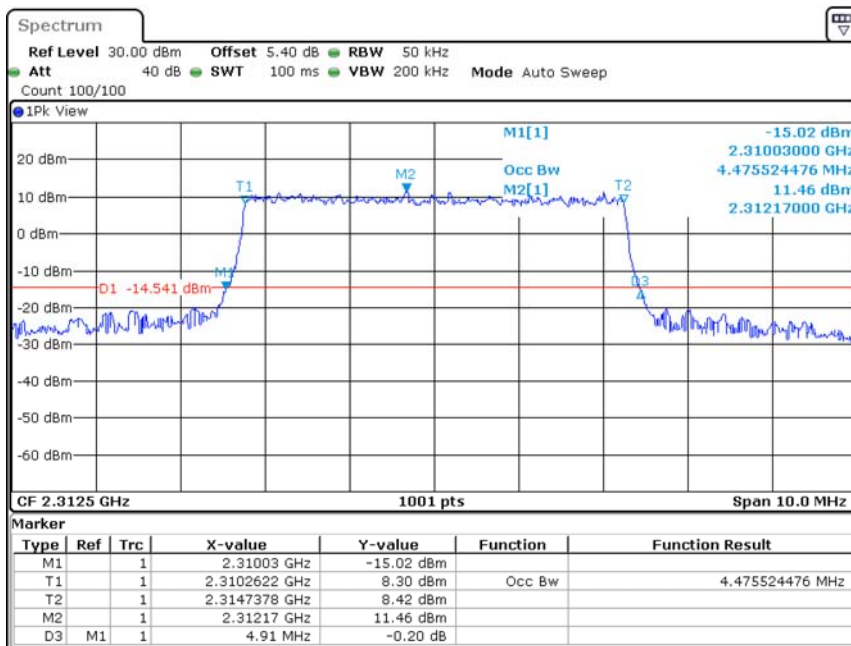
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**Band30-5MHz-64QAM-27710-25RB#0-4.476**



Date: 17.MAY.2021 00:24:48

**Band30-5MHz-64QAM-27735-25RB#0-4.476**

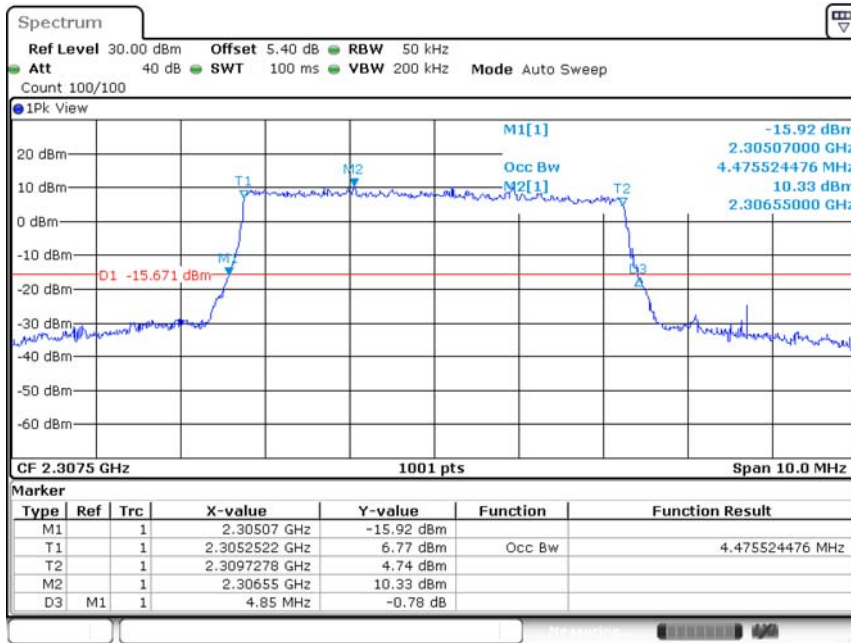


Date: 17.MAY.2021 00:25:08



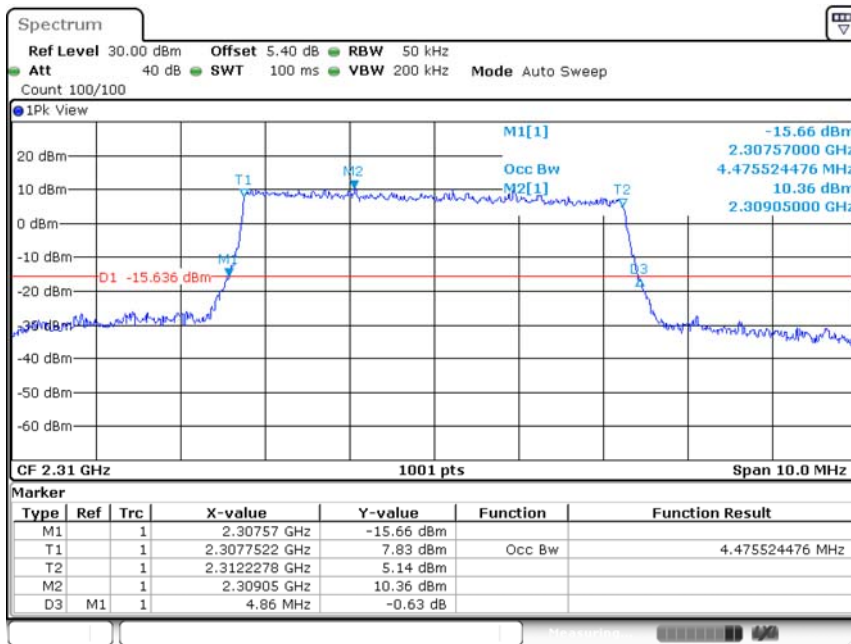
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Band30-5MHz-256QAM-27685-25RB#0-4.476



Date: 5.MAY.2021 03:49:55

Band30-5MHz-256QAM-27710-25RB#0-4.476

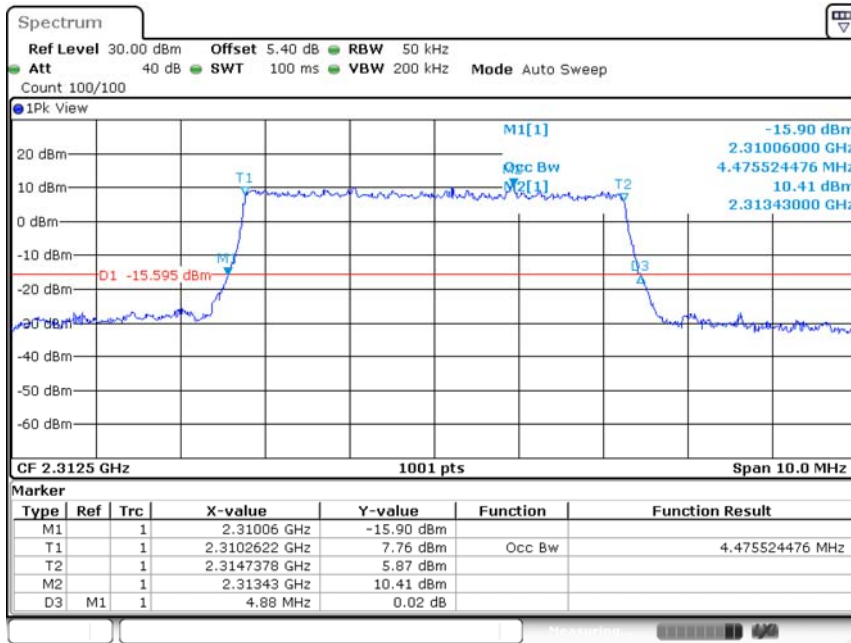


Date: 5.MAY.2021 03:50:14



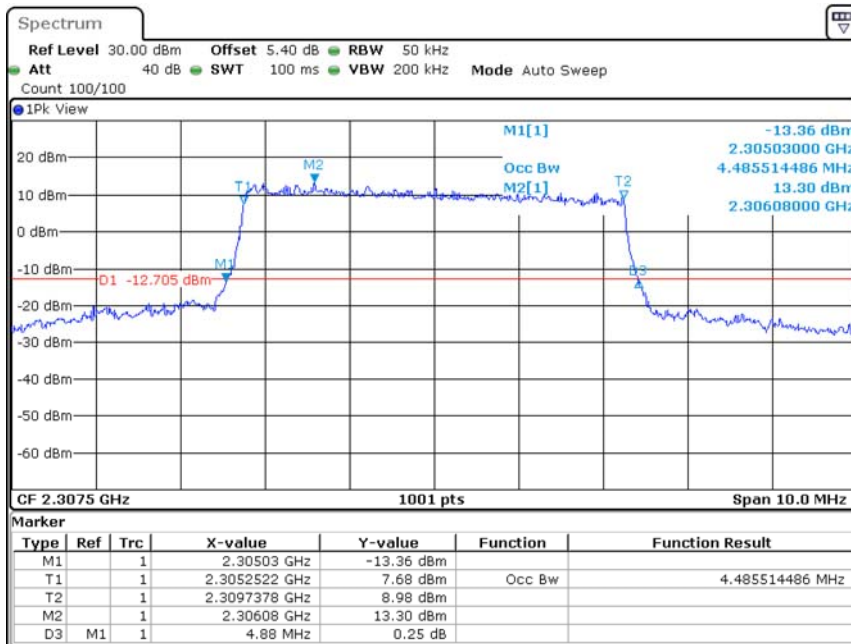
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**Band30-5MHz-256QAM-27735-25RB#0-4.476**



Date: 5.MAY.2021 03:50:34

**Band30-5MHz-16QAM-27685-25RB#0-4.486**

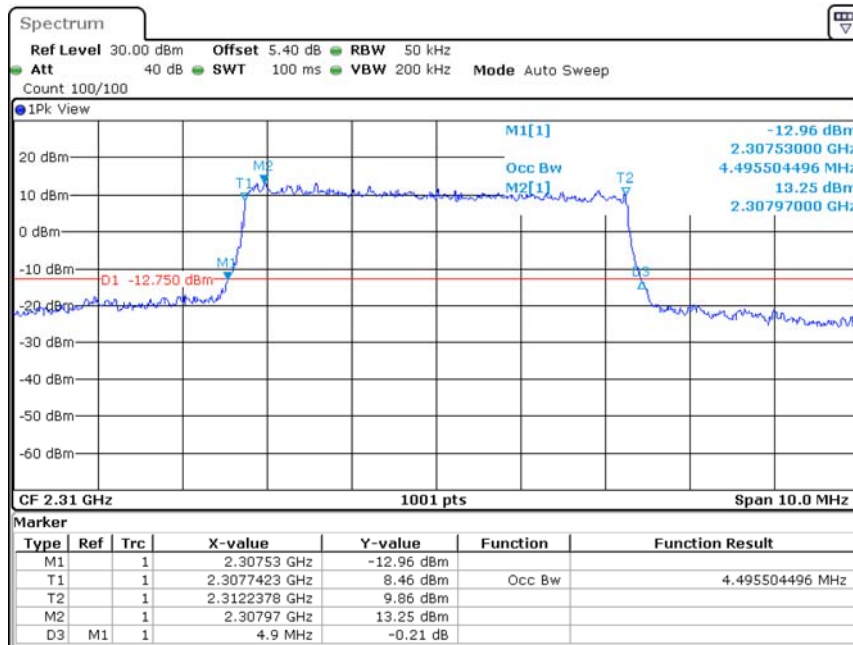


Date: 16.MAY.2021 13:29:55



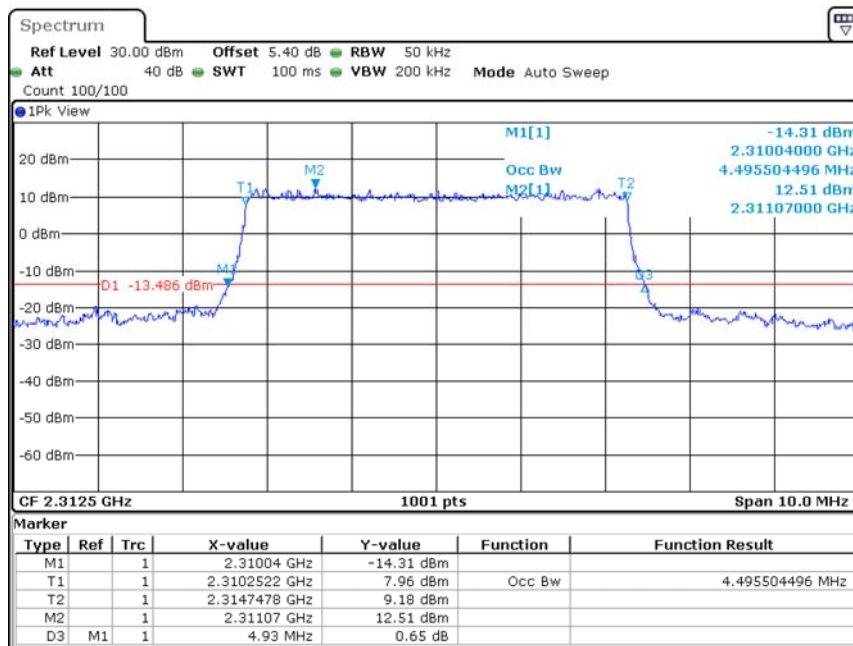
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**Band30-5MHz-16QAM-27710-25RB#0-4.496**



Date: 16.MAY.2021 13:30:34

**Band30-5MHz-16QAM-27735-25RB#0-4.496**

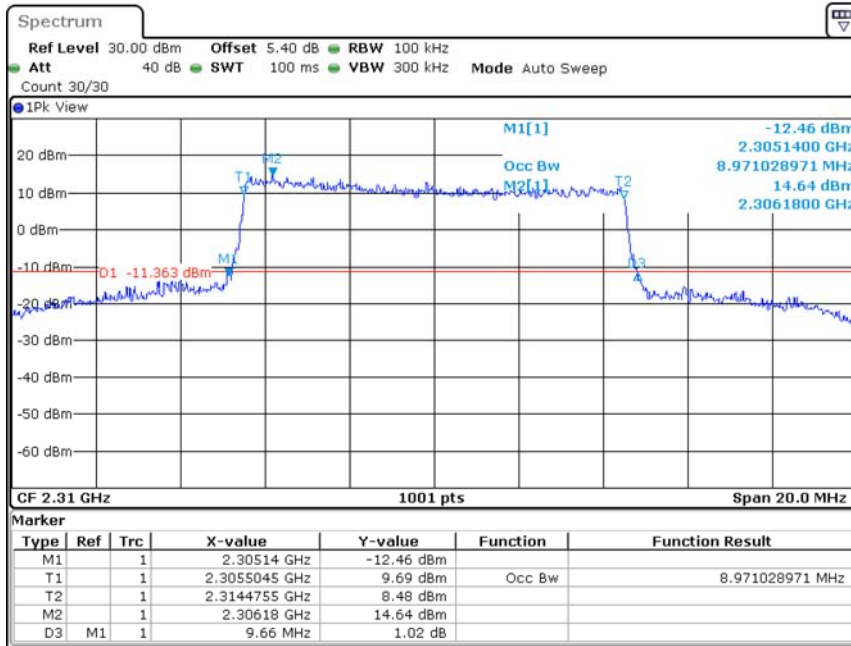


Date: 16.MAY.2021 13:31:14



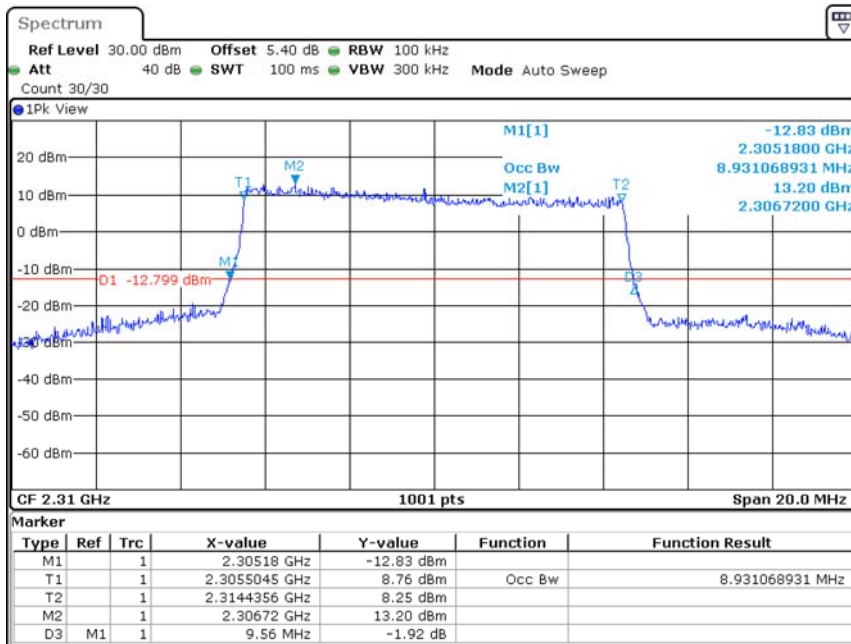
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**Band30-10MHz-QPSK-27710-50RB#0-8.971**



Date: 16.MAY.2021 13:31:33

**Band30-10MHz-64QAM-27710-50RB#0-8.931**

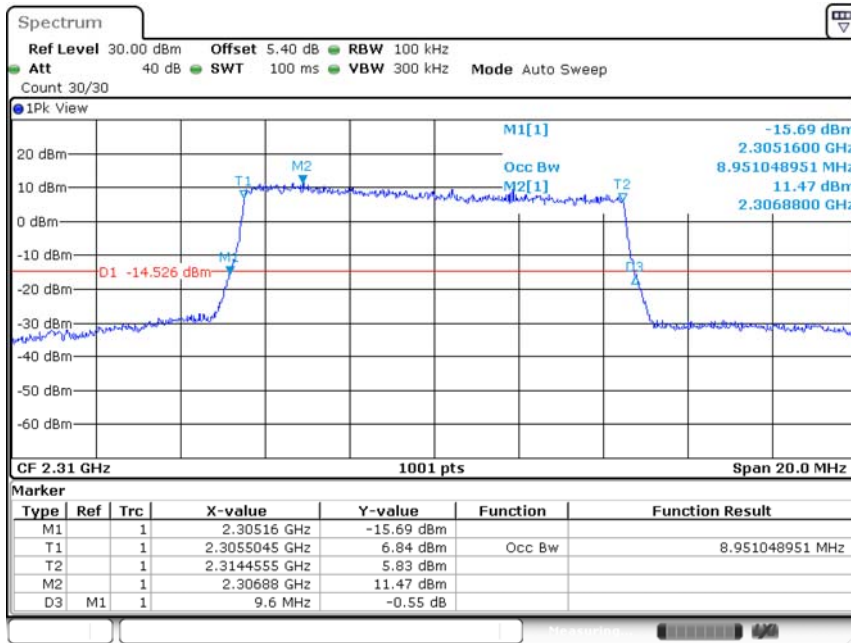


Date: 17.MAY.2021 00:25:27



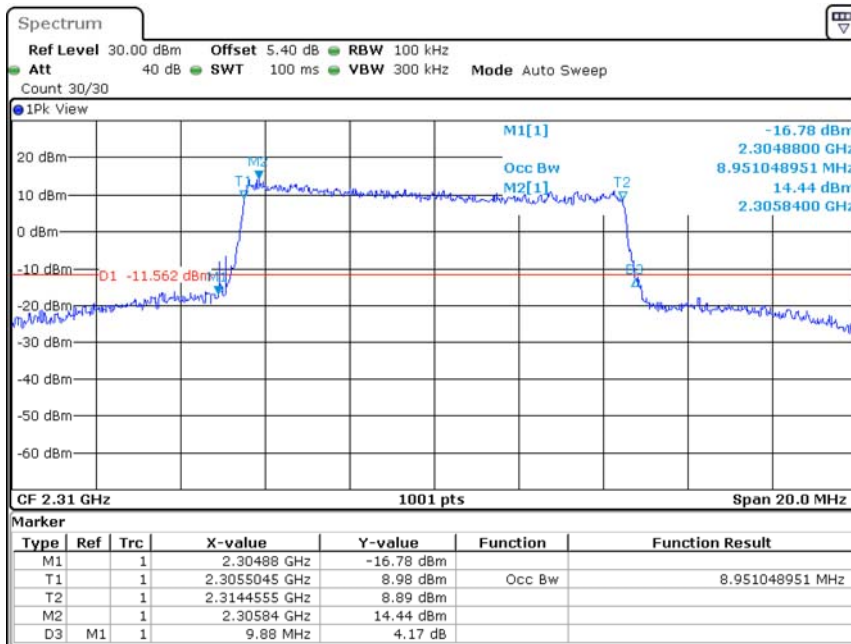
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**Band30-10MHz-256QAM-27710-50RB#0-8.951**



Date: 5.MAY.2021 03:50:53

**Band30-10MHz-16QAM-27710-50RB#0-8.951**



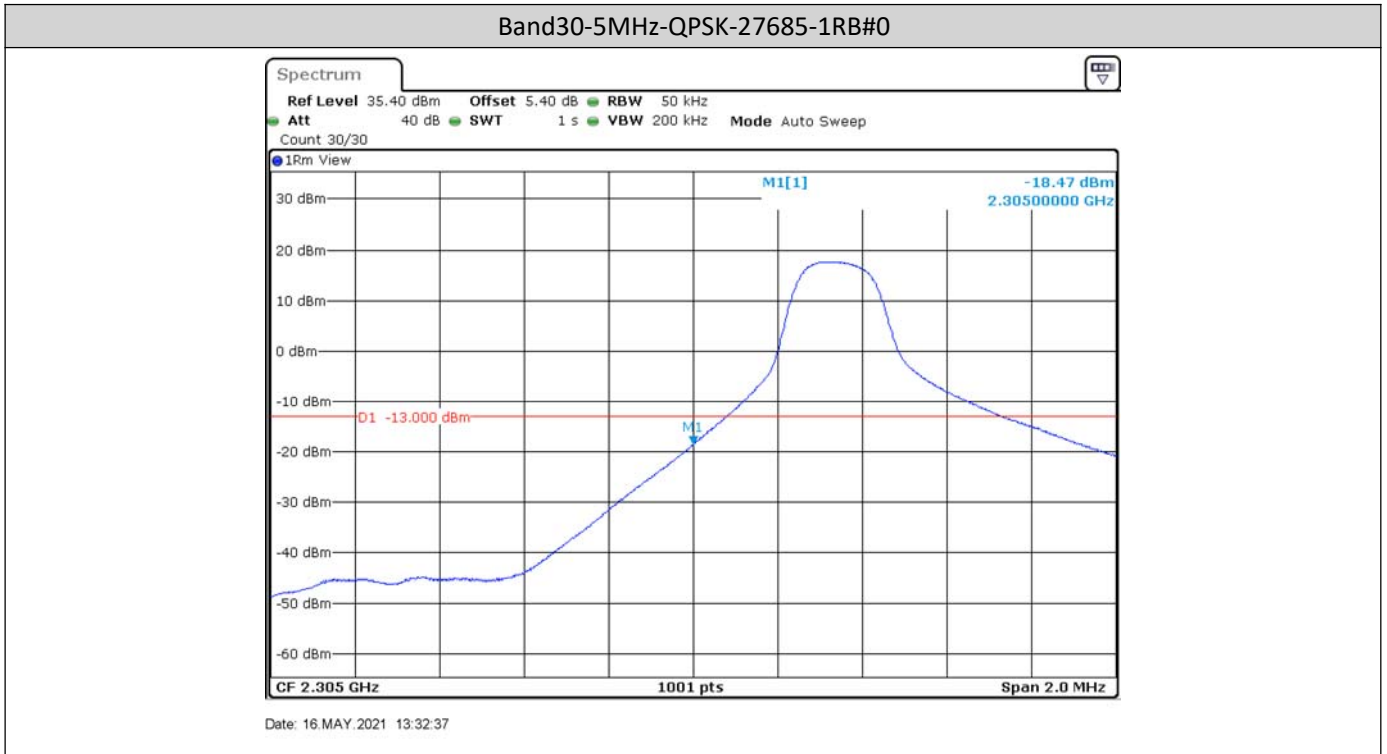
Date: 16.MAY.2021 13:31:45



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## 5. Band Edge Compliance

### 5.1. Test Plots



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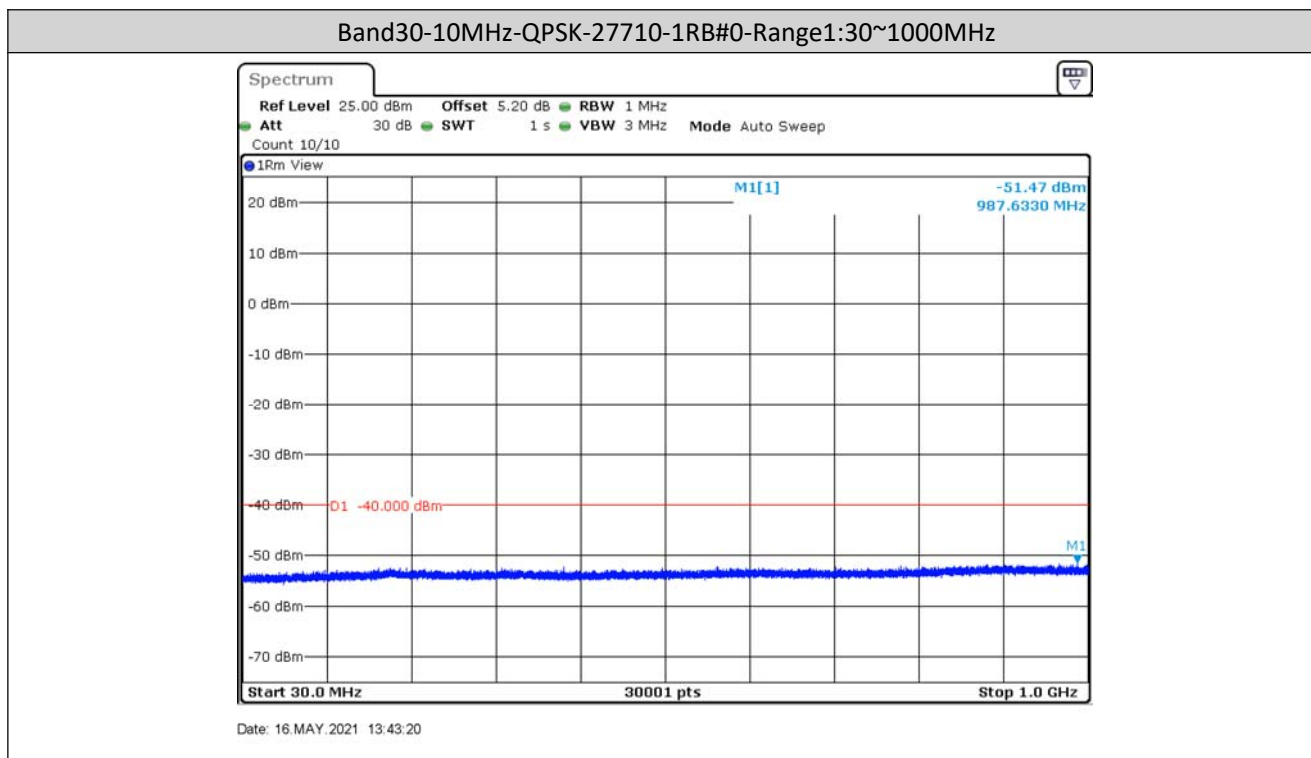
## 6. Spurious Emission at Antenna Terminal

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

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

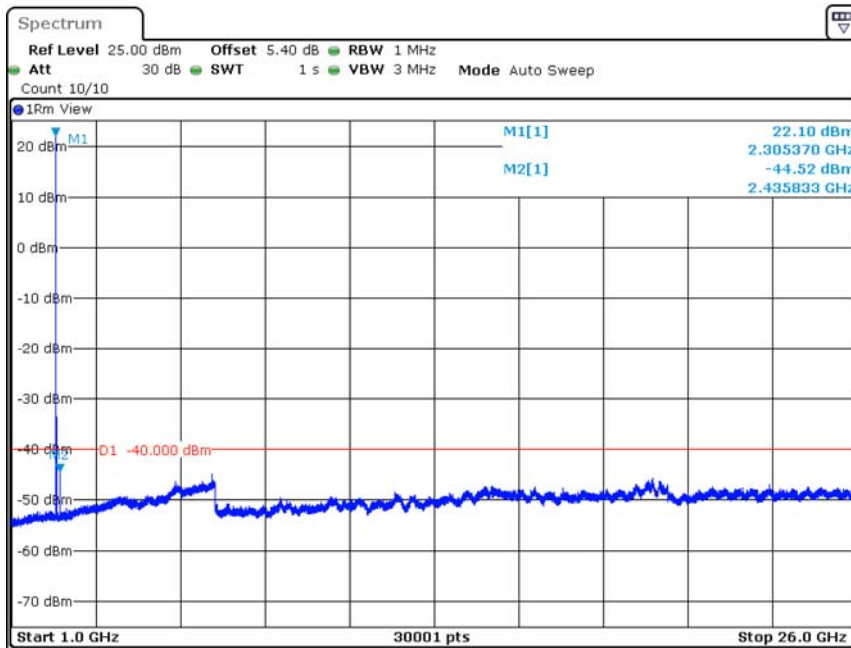
Remark3: The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data had been displayed.

### 6.1. Test Plots



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Band30-10MHz-QPSK-27710-1RB#0-Range2:1000~26000MHz



Date: 16.MAY.2021 13:43:36



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## 7. Field Strength of Spurious Radiation

### 7.1. Test Band = Band 30

#### 7.1.1. Test Channel = Mid Channel

NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1343.9172	27.88	-42.50	-13.00	29.50	Horizontal
2	1939.2470	28.49	-40.69	-13.00	27.69	Horizontal
3	2997.6999	29.27	-35.25	-13.00	22.25	Horizontal
4	5606.3803	49.65	-58.22	-13.00	45.22	Horizontal
5	9012.3006	47.12	-51.85	-13.00	38.85	Horizontal
6	17993.249	47.89	-45.85	-13.00	32.85	Horizontal



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**7.2. Test Band = Band 30**

**7.2.1. Test Channel = Mid Channel**

NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1428.9214	27.19	-43.01	-13.00	30.01	Vertical
2	1975.4488	28.21	-40.49	-13.00	27.49	Vertical
3	2988.6994	29.66	-35.10	-13.00	22.10	Vertical
4	5019.8510	49.51	-60.10	-13.00	47.10	Vertical
5	7968.9985	50.26	-51.68	-13.00	38.68	Vertical
6	17913.745	47.37	-45.58	-13.00	32.58	Vertical

Remark:

- 1 According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.
- 2 The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data displayed in this report.
- 3 all modulation and all Bandwidth had been tested, but only the worst case data displayed in this report.



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## 8. Frequency Stability

### 8.1. Frequency Vs Voltage

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band30	10MHz	QPSK	27710	50RB#0	VL	NT	1.90	0.000823	±2.5	PASS
Band30	10MHz	QPSK	27710	50RB#0	VN	NT	11.10	0.004805	±2.5	PASS
Band30	10MHz	QPSK	27710	50RB#0	VH	NT	9.30	0.004026	±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
Band30	10MHz	QPSK	27710	50RB#0	NV	-30	-8.10	-0.003506	±2.5	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	-20	10.30	0.004459	±2.5	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	-10	11.50	0.004978	±2.5	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	0	4.10	0.001775	±2.5	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	10	17.50	0.007576	±2.5	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	20	-2.10	-0.000909	±2.5	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	30	5.40	0.002338	±2.5	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	40	13.20	0.005714	±2.5	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	50	-6.90	-0.002987	±2.5	PASS



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