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# Appendix B

E-UTRA Band 26 (814-824)



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### 1 Effective (Isotropic) Radiated Power

#### 1.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted	Limit	Verdict
					Power(dBm)	(dBm)	
Band26	1.4MHz	QPSK	26697	1RB#0	23.58	50.00	PASS
Band26	1.4MHz	QPSK	26697	1RB#2	23.78	50.00	PASS
Band26	1.4MHz	QPSK	26697	1RB#5	23.55	50.00	PASS
Band26	1.4MHz	QPSK	26697	3RB#1	23.99	50.00	PASS
Band26	1.4MHz	QPSK	26697	3RB#0	23.64	50.00	PASS
Band26	1.4MHz	QPSK	26697	3RB#3	23.70	50.00	PASS
Band26	1.4MHz	QPSK	26697	6RB#0	22.83	50.00	PASS
Band26	1.4MHz	QPSK	26740	1RB#5	23.56	50.00	PASS
Band26	1.4MHz	QPSK	26740	1RB#0	23.57	50.00	PASS
Band26	1.4MHz	QPSK	26740	1RB#2	23.62	50.00	PASS
Band26	1.4MHz	QPSK	26740	3RB#0	23.69	50.00	PASS
Band26	1.4MHz	QPSK	26740	3RB#1	23.91	50.00	PASS
Band26	1.4MHz	QPSK	26740	3RB#3	23.77	50.00	PASS
Band26	1.4MHz	QPSK	26740	6RB#0	22.80	50.00	PASS
Band26	1.4MHz	QPSK	26783	1RB#0	23.51	50.00	PASS
Band26	1.4MHz	QPSK	26783	1RB#2	23.76	50.00	PASS
Band26	1.4MHz	QPSK	26783	1RB#5	23.52	50.00	PASS
Band26	1.4MHz	QPSK	26783	3RB#1	23.73	50.00	PASS
Band26	1.4MHz	QPSK	26783	3RB#0	23.77	50.00	PASS
Band26	1.4MHz	QPSK	26783	3RB#3	23.75	50.00	PASS
Band26	1.4MHz	QPSK	26783	6RB#0	22.70	50.00	PASS
Band26	1.4MHz	16QAM	26697	1RB#0	22.08	50.00	PASS
Band26	1.4MHz	16QAM	26697	1RB#2	22.72	50.00	PASS
Band26	1.4MHz	16QAM	26697	1RB#5	22.58	50.00	PASS
Band26	1.4MHz	16QAM	26697	3RB#0	23.05	50.00	PASS
Band26	1.4MHz	16QAM	26697	3RB#1	22.88	50.00	PASS
Band26	1.4MHz	16QAM	26697	3RB#3	23.05	50.00	PASS
Band26	1.4MHz	16QAM	26697	6RB#0	21.82	50.00	PASS
Band26	1.4MHz	16QAM	26740	1RB#2	22.32	50.00	PASS
Band26	1.4MHz	16QAM	26740	1RB#5	21.97	50.00	PASS
Band26	1.4MHz	16QAM	26740	1RB#0	22.03	50.00	PASS
Band26	1.4MHz	16QAM	26740	3RB#3	23.00	50.00	PASS
Band26	1.4MHz	16QAM	26740	3RB#1	23.00	50.00	PASS
Band26	1.4MHz	16QAM	26740	3RB#0	22.81	50.00	PASS
Band26	1.4MHz	16QAM	26740	6RB#0	21.87	50.00	PASS
Band26	1.4MHz	16QAM	26783	1RB#2	22.09	50.00	PASS
Band26	1.4MHz	16QAM	26783	1RB#5	22.26	50.00	PASS
Band26	1.4MHz	16QAM	26783	1RB#0	22.11	50.00	PASS





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D 100	4 45411	100414	00700	000,00	00.70	50.00	DAGO
Band26	1.4MHz	16QAM	26783	3RB#0	22.76	50.00	PASS
Band26	1.4MHz	16QAM	26783	3RB#3	22.79	50.00	PASS
Band26	1.4MHz	16QAM	26783	3RB#1	23.02	50.00	PASS
Band26	1.4MHz	16QAM	26783	6RB#0	21.77	50.00	PASS
Band26	3MHz	QPSK	26705	1RB#0	23.79	50.00	PASS
Band26	3MHz	QPSK	26705	1RB#8	23.59	50.00	PASS
Band26	3MHz	QPSK	26705	1RB#14	23.64	50.00	PASS
Band26	3MHz	QPSK	26705	8RB#7	22.83	50.00	PASS
Band26	3MHz	QPSK	26705	8RB#0	22.60	50.00	PASS
Band26	3MHz	QPSK	26705	8RB#4	22.88	50.00	PASS
Band26	3MHz	QPSK	26705	15RB#0	22.74	50.00	PASS
Band26	3MHz	QPSK	26740	1RB#8	23.67	50.00	PASS
Band26	3MHz	QPSK	26740	1RB#14	23.75	50.00	PASS
Band26	3MHz	QPSK	26740	1RB#0	23.62	50.00	PASS
Band26	3MHz	QPSK	26740	8RB#0	22.69	50.00	PASS
Band26	3MHz	QPSK	26740	8RB#4	22.81	50.00	PASS
Band26	3MHz	QPSK	26740	8RB#7	22.70	50.00	PASS
Band26	3MHz	QPSK	26740	15RB#0	22.68	50.00	PASS
Band26	3MHz	QPSK	26775	1RB#14	23.57	50.00	PASS
Band26	3MHz	QPSK	26775	1RB#0	23.79	50.00	PASS
Band26	3MHz	QPSK	26775	1RB#8	23.49	50.00	PASS
Band26	3MHz	QPSK	26775	8RB#4	22.70	50.00	PASS
Band26	3MHz	QPSK	26775	8RB#7	22.80	50.00	PASS
Band26	3MHz	QPSK	26775	8RB#0	22.71	50.00	PASS
Band26	3MHz	QPSK	26775	15RB#0	22.77	50.00	PASS
Band26	3MHz	16QAM	26705	1RB#0	22.61	50.00	PASS
Band26	3MHz	16QAM	26705	1RB#8	22.09	50.00	PASS
Band26	3MHz	16QAM	26705	1RB#14	22.14	50.00	PASS
Band26	3MHz	16QAM	26705	8RB#0	22.01	50.00	PASS
Band26	3MHz	16QAM	26705	8RB#7	21.77	50.00	PASS
Band26	3MHz	16QAM	26705	8RB#4	21.75	50.00	PASS
Band26	3MHz	16QAM	26705	15RB#0	21.83	50.00	PASS
Band26	3MHz	16QAM	26740	1RB#0	22.12	50.00	PASS
Band26	3MHz	16QAM	26740	1RB#8	22.08	50.00	PASS
Band26	3MHz	16QAM	26740	1RB#14	22.25	50.00	PASS
Band26	3MHz	16QAM	26740	8RB#4	21.67	50.00	PASS
Band26	3MHz	16QAM	26740	8RB#7	21.95	50.00	PASS
Band26	3MHz	16QAM	26740	8RB#0	21.66	50.00	PASS
Band26	3MHz	16QAM	26740	15RB#0	21.94	50.00	PASS
Band26	3MHz	16QAM	26775	1RB#0	22.13	50.00	PASS
Band26	3MHz	16QAM	26775	1RB#8	22.13	50.00	PASS
Band26	3MHz	16QAM	26775	1RB#14	22.03	50.00	PASS
Band26	3MHz	16QAM	26775	8RB#7	21.55	50.00	PASS
						+	
Band26 Band26	3MHz 3MHz	16QAM 16QAM	26775	8RB#0 8RB#4	22.09 22.05	50.00	PASS PASS
			26775			50.00	
Band26	3MHz	16QAM	26775	15RB#0	21.98	50.00	PASS
Band26	5MHz	QPSK	26715	1RB#24	23.81	50.00	PASS



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Don 400	ENALL-	OBCK	26745	4DD#40	22.02	F0.00	DACC
Band26	5MHz	QPSK	26715	1RB#12	23.62	50.00	PASS
Band26	5MHz	QPSK	26715	1RB#0	23.59	50.00	PASS
Band26	5MHz	QPSK	26715	12RB#0	22.48	50.00	PASS
Band26	5MHz	QPSK	26715	12RB#6	22.81 22.78	50.00	PASS
Band26	5MHz	QPSK	26715	12RB#13		50.00	PASS
Band26	5MHz	QPSK	26715	25RB#0	22.82	50.00	PASS
Band26	5MHz	QPSK	26740	1RB#0	23.59	50.00	PASS
Band26	5MHz	QPSK	26740	1RB#24	23.69	50.00	PASS
Band26	5MHz	QPSK	26740	1RB#12	23.62	50.00	PASS
Band26	5MHz	QPSK	26740	12RB#13	22.70	50.00	PASS
Band26	5MHz	QPSK	26740	12RB#6	22.80	50.00	PASS
Band26	5MHz	QPSK	26740	12RB#0	22.62	50.00	PASS
Band26	5MHz	QPSK	26740	25RB#0	22.65	50.00	PASS
Band26	5MHz	QPSK	26765	1RB#24	23.55	50.00	PASS
Band26	5MHz	QPSK	26765	1RB#12	23.57	50.00	PASS
Band26	5MHz	QPSK	26765	1RB#0	23.66	50.00	PASS
Band26	5MHz	QPSK	26765	12RB#13	22.61	50.00	PASS
Band26	5MHz	QPSK	26765	12RB#6	22.74	50.00	PASS
Band26	5MHz	QPSK	26765	12RB#0	22.76	50.00	PASS
Band26	5MHz	QPSK	26765	25RB#0	22.75	50.00	PASS
Band26	5MHz	16QAM	26715	1RB#12	22.72	50.00	PASS
Band26	5MHz	16QAM	26715	1RB#24	22.13	50.00	PASS
Band26	5MHz	16QAM	26715	1RB#0	22.07	50.00	PASS
Band26	5MHz	16QAM	26715	12RB#6	21.73	50.00	PASS
Band26	5MHz	16QAM	26715	12RB#13	21.60	50.00	PASS
Band26	5MHz	16QAM	26715	12RB#0	21.59	50.00	PASS
Band26	5MHz	16QAM	26715	25RB#0	21.76	50.00	PASS
Band26	5MHz	16QAM	26740	1RB#12	22.26	50.00	PASS
Band26	5MHz	16QAM	26740	1RB#24	21.97	50.00	PASS
Band26	5MHz	16QAM	26740	1RB#0	22.16	50.00	PASS
Band26	5MHz	16QAM	26740	12RB#13	21.72	50.00	PASS
Band26	5MHz	16QAM	26740	12RB#6	21.62	50.00	PASS
Band26	5MHz	16QAM	26740	12RB#0	21.58	50.00	PASS
Band26	5MHz	16QAM	26740	25RB#0	21.72	50.00	PASS
Band26	5MHz	16QAM	26765	1RB#12	22.28	50.00	PASS
Band26	5MHz	16QAM	26765	1RB#24	22.04	50.00	PASS
Band26	5MHz	16QAM	26765	1RB#0	22.33	50.00	PASS
Band26	5MHz	16QAM	26765	12RB#0	21.53	50.00	PASS
Band26	5MHz	16QAM	26765	12RB#13	21.67	50.00	PASS
Band26	5MHz	16QAM	26765	12RB#6	21.68	50.00	PASS
Band26	5MHz	16QAM	26765	25RB#0	21.83	50.00	PASS
Band26	10MHz	QPSK	26740	1RB#49	23.46	50.00	PASS
Band26	10MHz	QPSK	26740	1RB#0	23.57	50.00	PASS
Band26	10MHz	QPSK	26740	1RB#24	24.17	50.00	PASS
Band26	10MHz	QPSK	26740	25RB#25	22.66	50.00	PASS
Band26	10MHz	QPSK	26740	25RB#12	22.80	50.00	PASS
Band26	10MHz	QPSK	26740	25RB#0	22.75	50.00	PASS



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Band26	10MHz	QPSK	26740	50RB#0	22.78	50.00	PASS
Band26	10MHz	16QAM	26740	1RB#24	22.51	50.00	PASS
Band26	10MHz	16QAM	26740	1RB#0	22.61	50.00	PASS
Band26	10MHz	16QAM	26740	1RB#49	22.62	50.00	PASS
Band26	10MHz	16QAM	26740	25RB#0	21.71	50.00	PASS
Band26	10MHz	16QAM	26740	25RB#12	21.90	50.00	PASS
Band26	10MHz	16QAM	26740	25RB#25	21.74	50.00	PASS
Band26	10MHz	16QAM	26740	50RB#0	21.75	50.00	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]



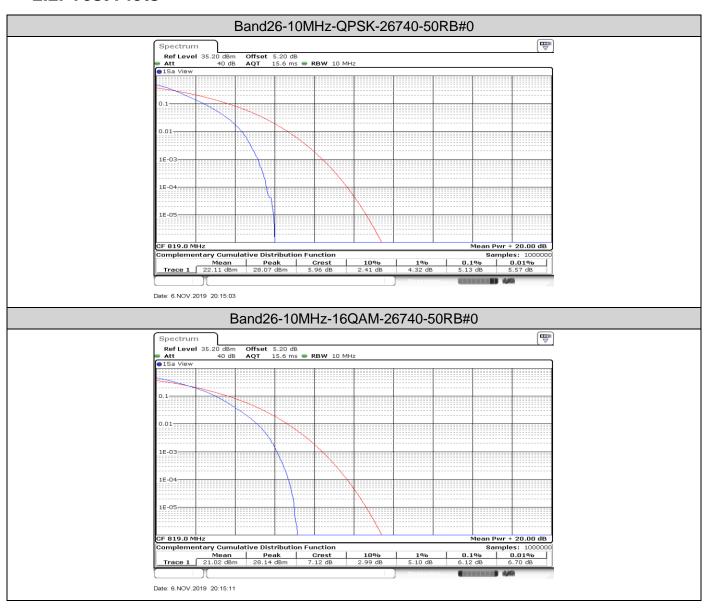
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### 2. Peak-to-Average Ratio (CCDF)

#### 2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band26	10MHz	QPSK	26740	50RB#0	5.13	13	PASS
Band26	10MHz	16QAM	26740	50RB#0	6.12	13	PASS

#### 2.2. Test Plots





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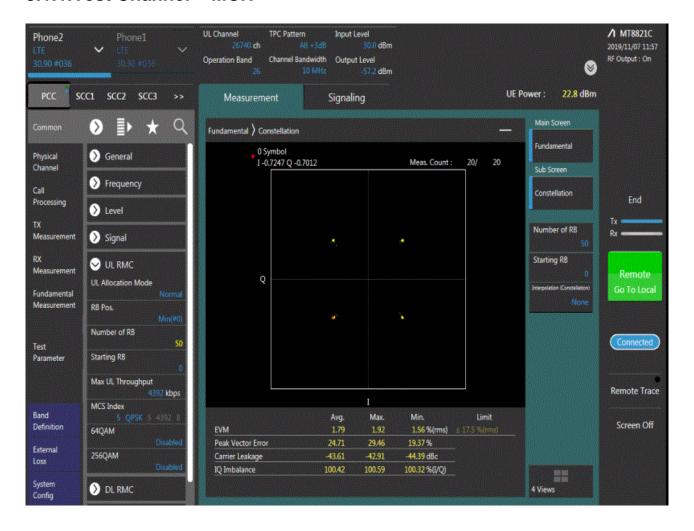
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#### 3. Modulation Characteristics

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

#### 3.1.1.Test Channel = MCH

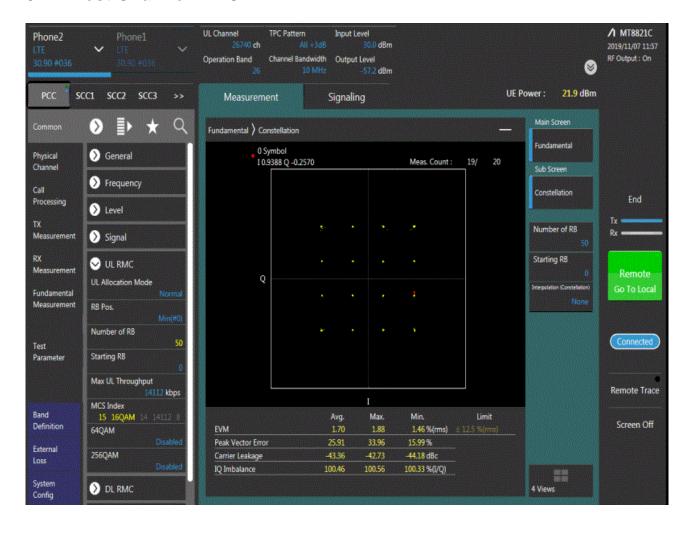




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#### 3.2. Test Mode = LTE /TM2 10MHz

#### 3.2.1.Test Channel = MCH





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### 4. 26dB Bandwidth and Occupied Bandwidth

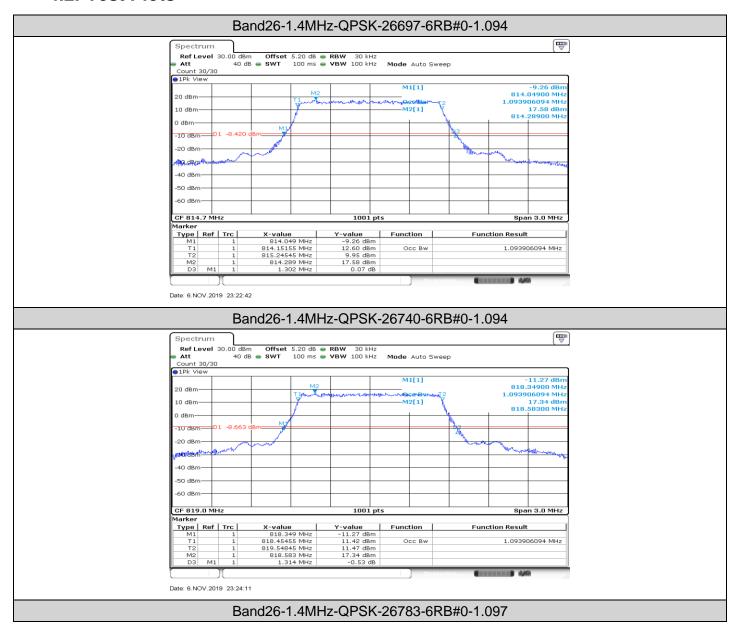
#### 4.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band26	1.4MHz	QPSK	26697	6RB#0	1.094	1.302	PASS
Band26	1.4MHz	QPSK	26740	6RB#0	1.094	1.314	PASS
Band26	1.4MHz	QPSK	26783	6RB#0	1.097	1.278	PASS
Band26	1.4MHz	16QAM	26697	6RB#0	1.103	1.308	PASS
Band26	1.4MHz	16QAM	26740	6RB#0	1.091	1.278	PASS
Band26	1.4MHz	16QAM	26783	6RB#0	1.097	1.290	PASS
Band26	3MHz	QPSK	26705	15RB#0	2.697	2.982	PASS
Band26	3MHz	QPSK	26740	15RB#0	2.703	2.982	PASS
Band26	3MHz	QPSK	26775	15RB#0	2.697	2.964	PASS
Band26	3MHz	16QAM	26705	15RB#0	2.691	2.988	PASS
Band26	3MHz	16QAM	26740	15RB#0	2.697	2.994	PASS
Band26	3MHz	16QAM	26775	15RB#0	2.703	2.994	PASS
Band26	5MHz	QPSK	26715	25RB#0	4.466	4.940	PASS
Band26	5MHz	QPSK	26740	25RB#0	4.486	4.940	PASS
Band26	5MHz	QPSK	26765	25RB#0	4.486	4.950	PASS
Band26	5MHz	16QAM	26715	25RB#0	4.486	4.970	PASS
Band26	5MHz	16QAM	26740	25RB#0	4.466	4.970	PASS
Band26	5MHz	16QAM	26765	25RB#0	4.466	4.890	PASS
Band26	10MHz	QPSK	26740	50RB#0	8.931	9.680	PASS
Band26	10MHz	16QAM	26740	50RB#0	8.911	9.740	PASS



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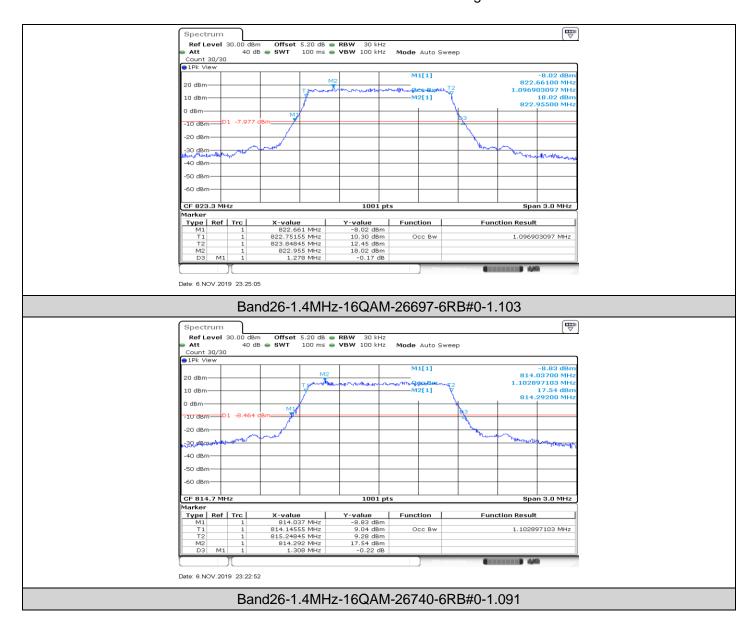
#### 4.2. Test Plots





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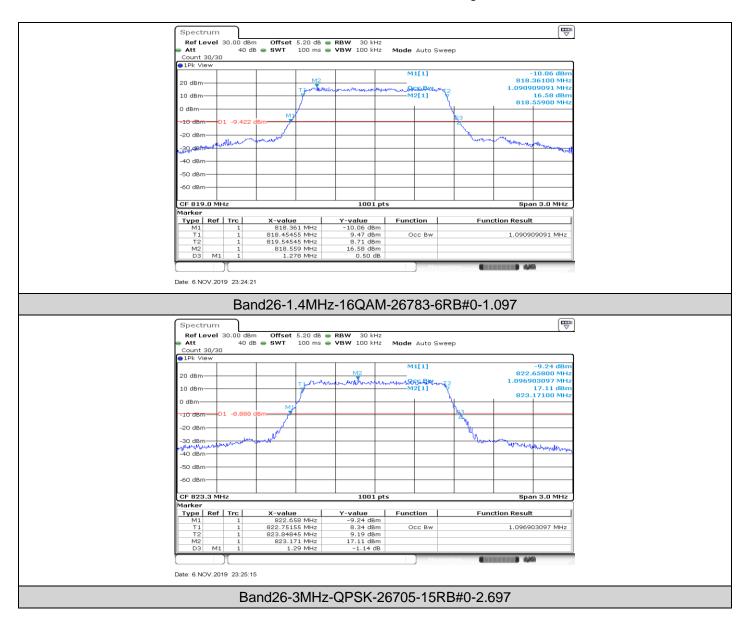
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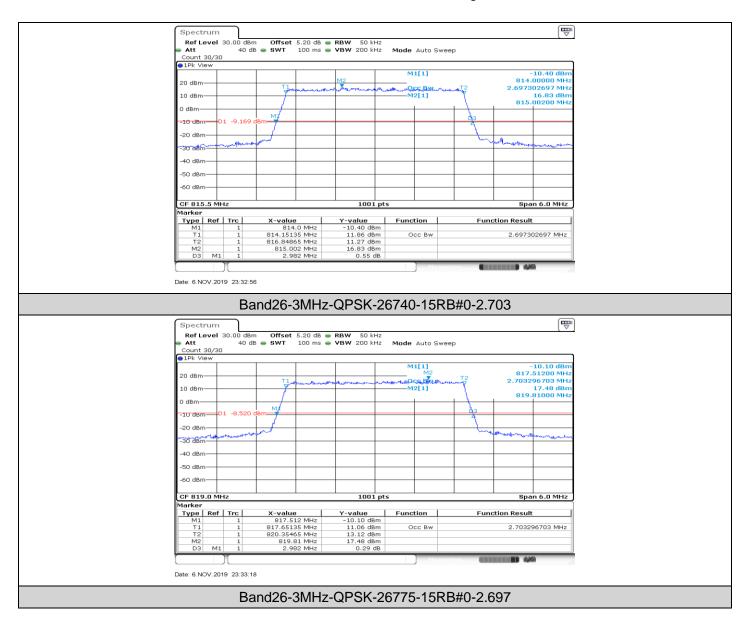






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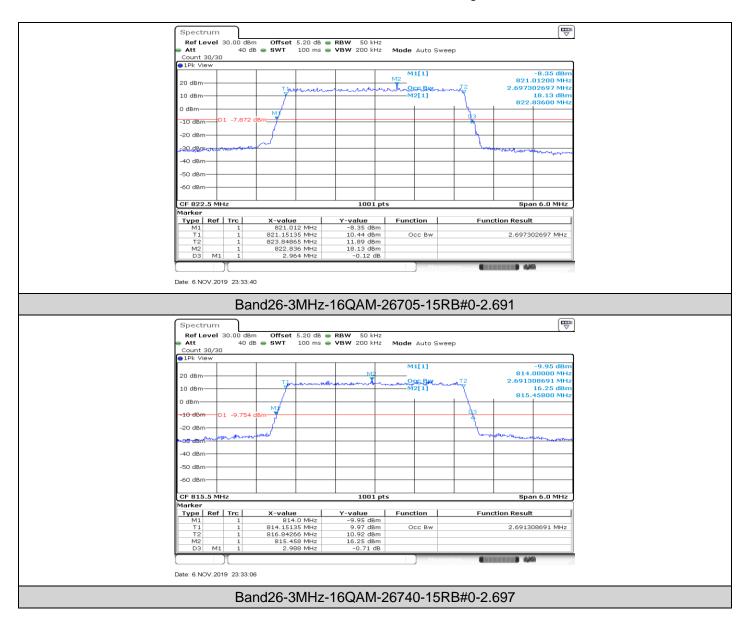






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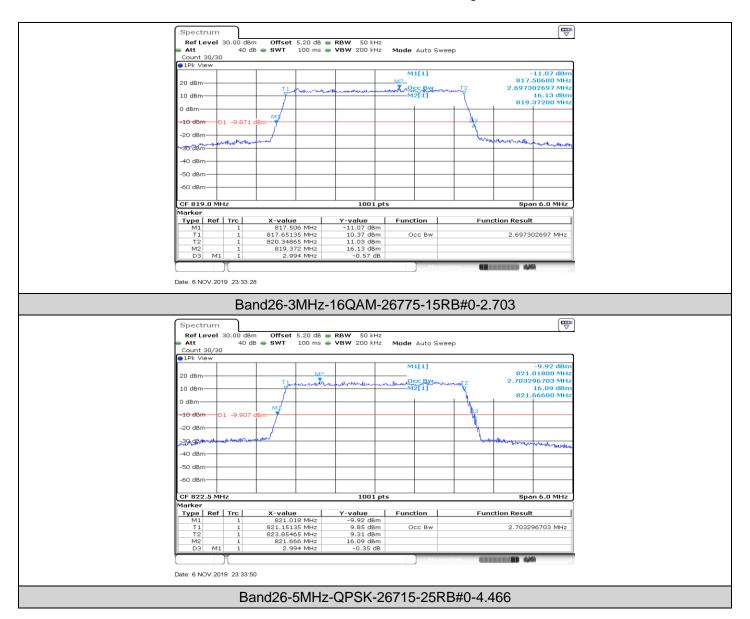
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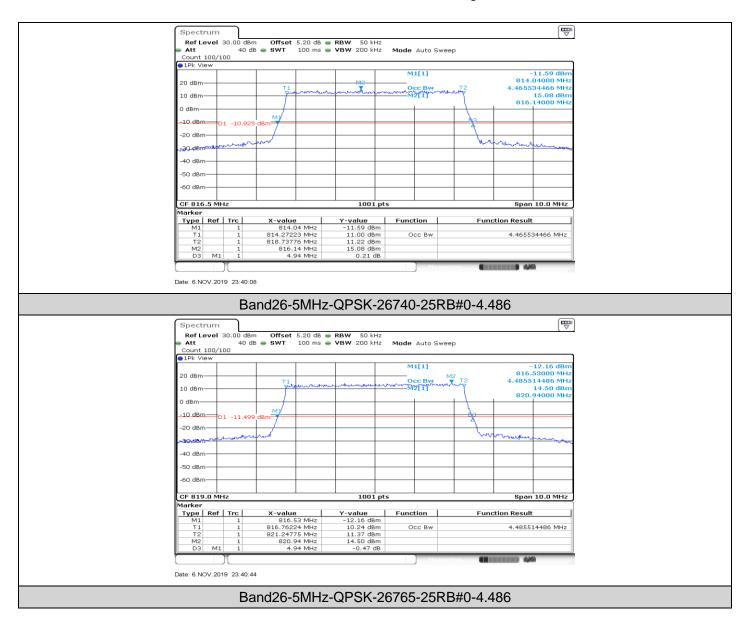
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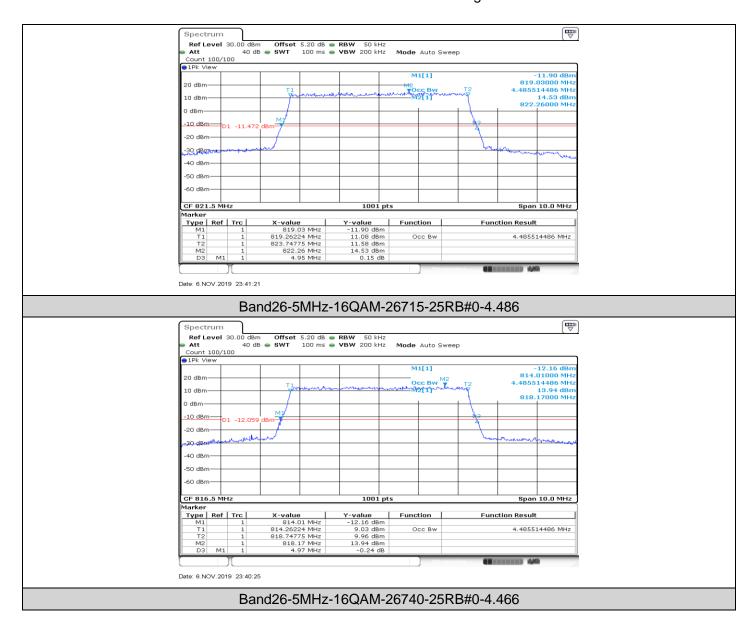
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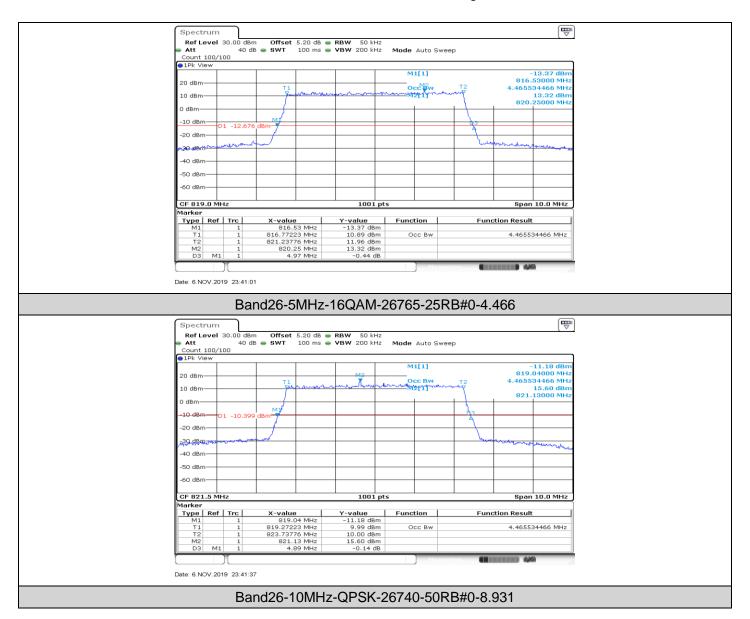
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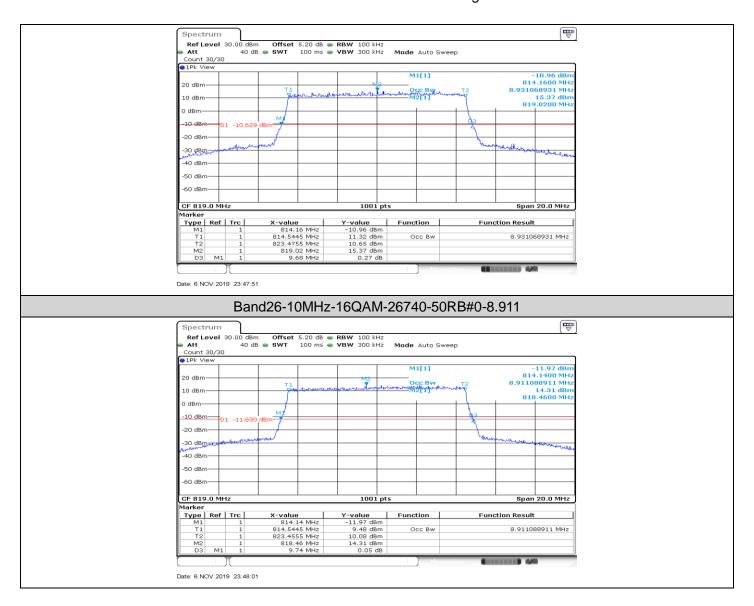
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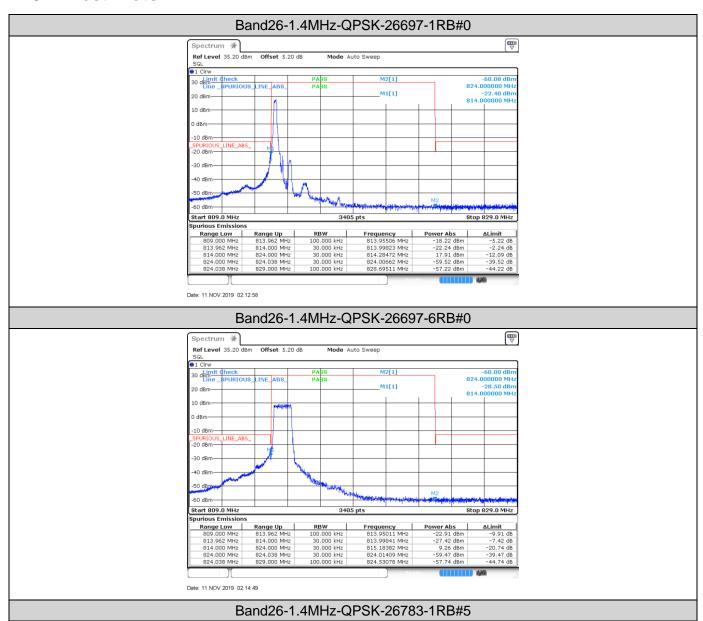
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### 5. Band Edge Compliance

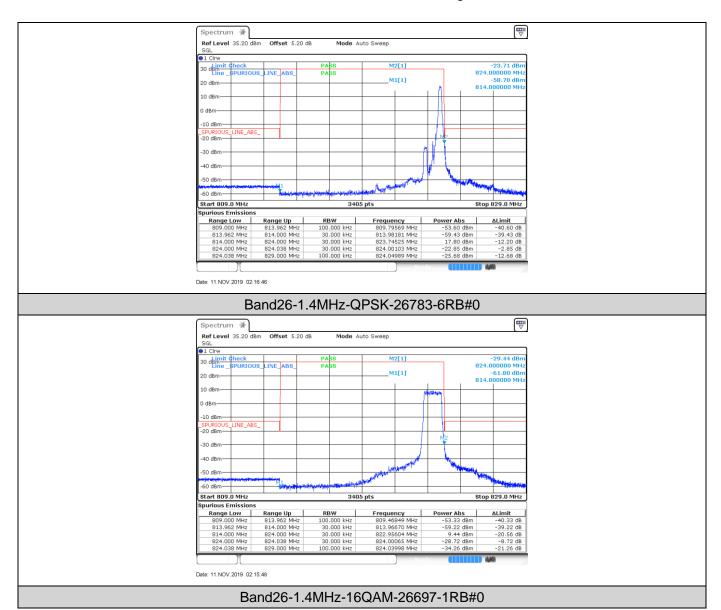
#### 5.1. Test Plots





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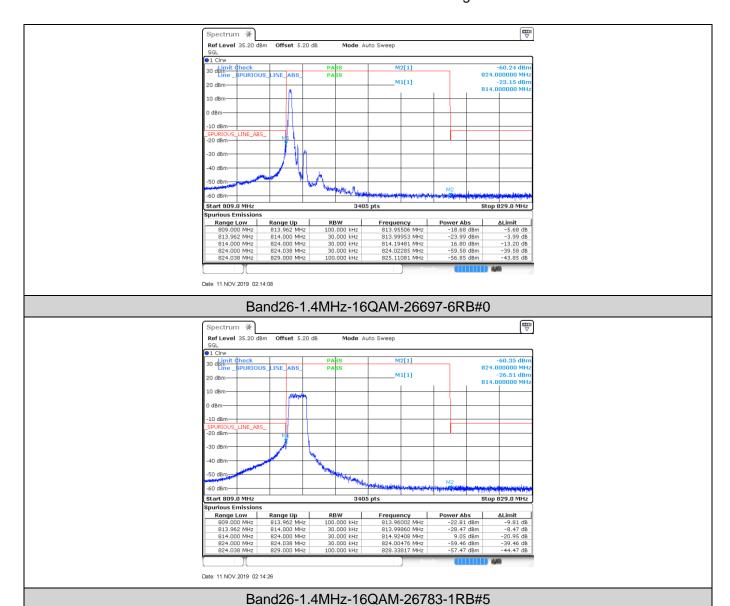
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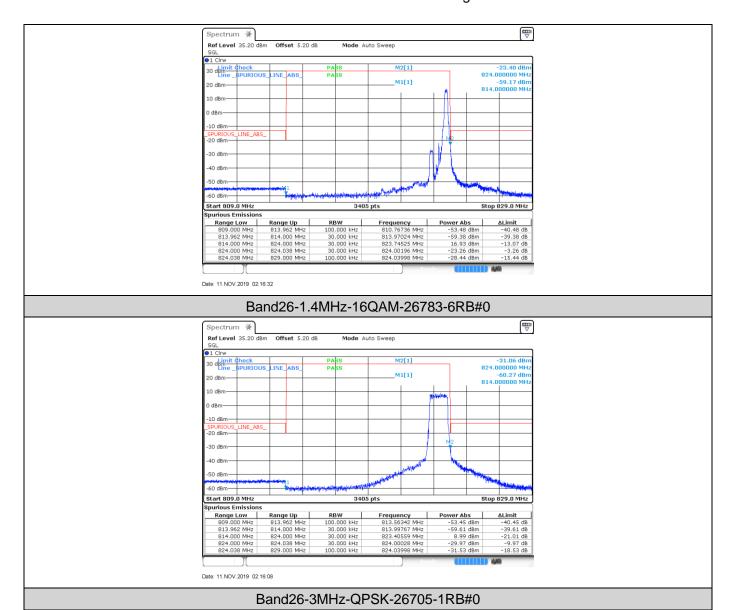
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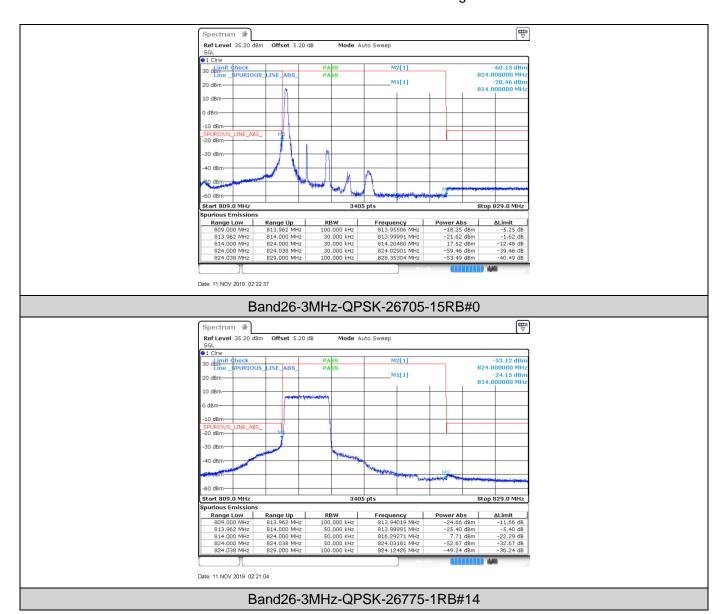
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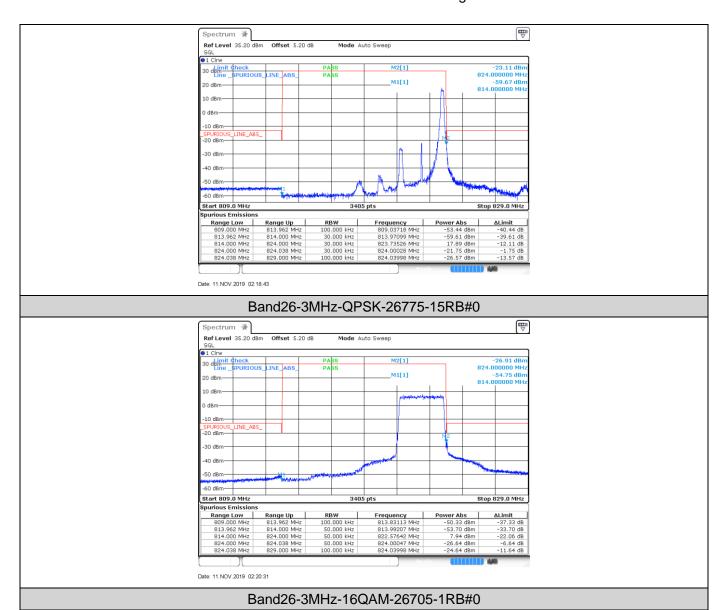
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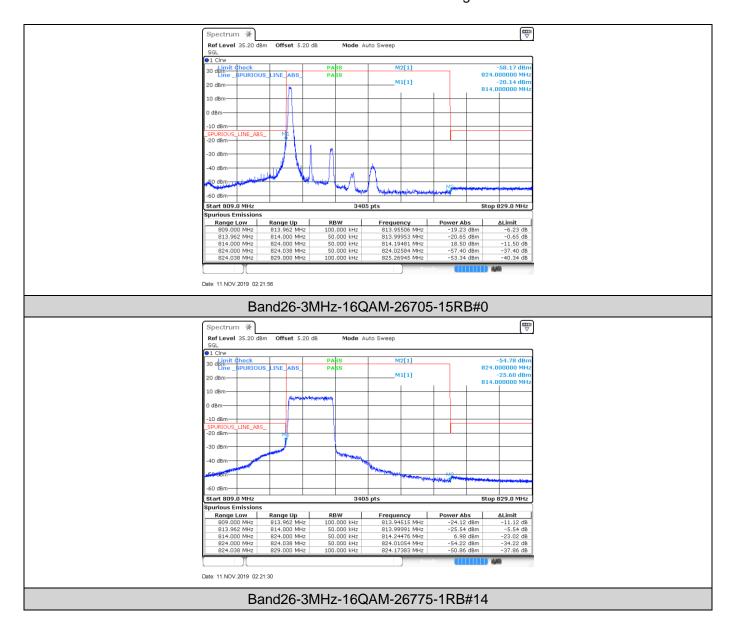
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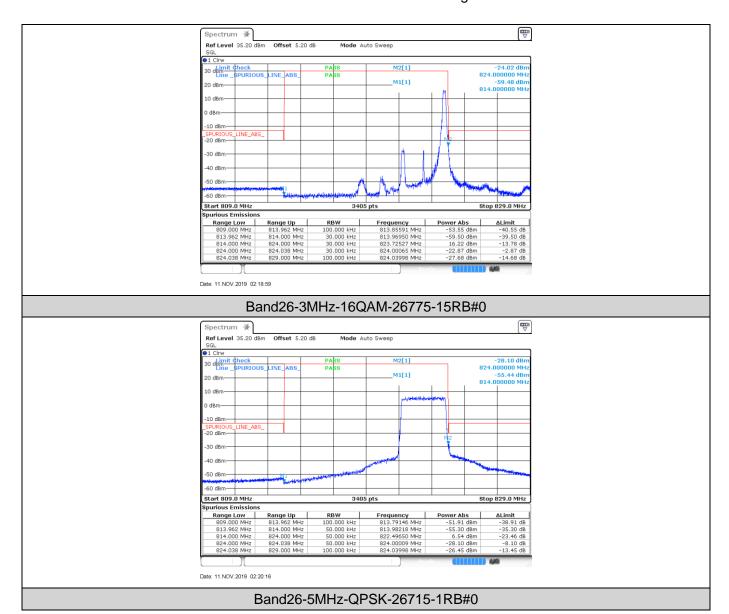
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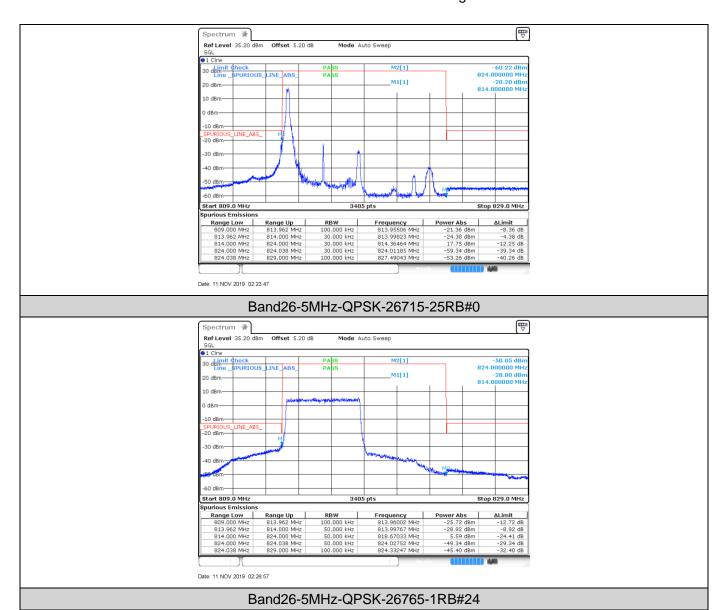
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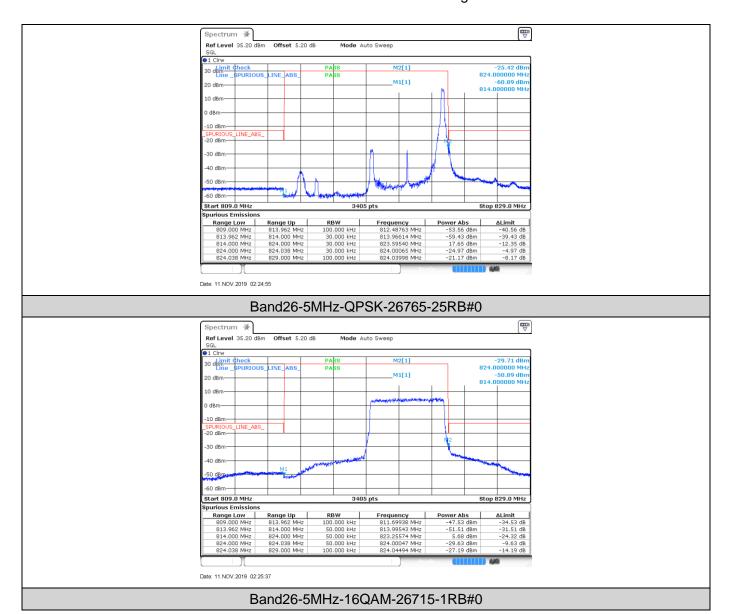
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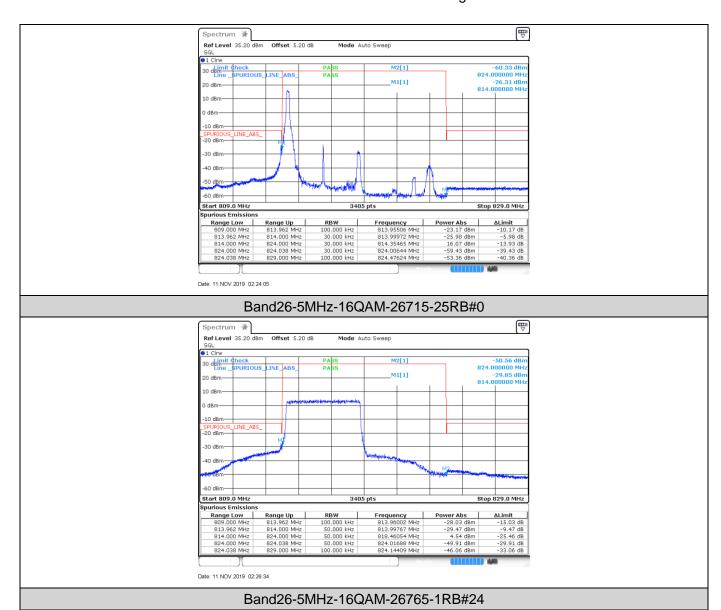
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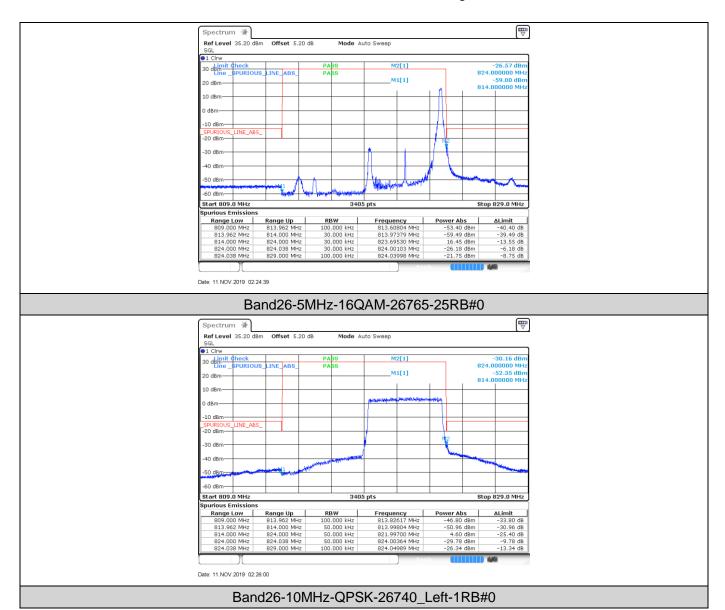
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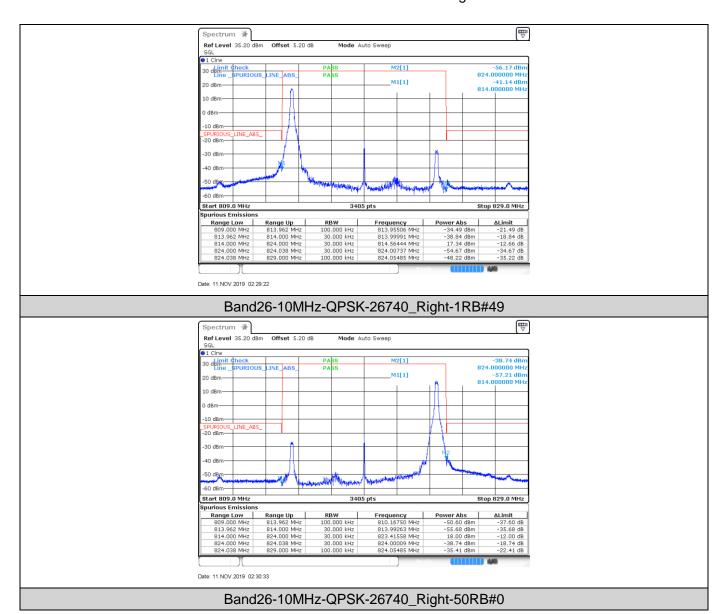
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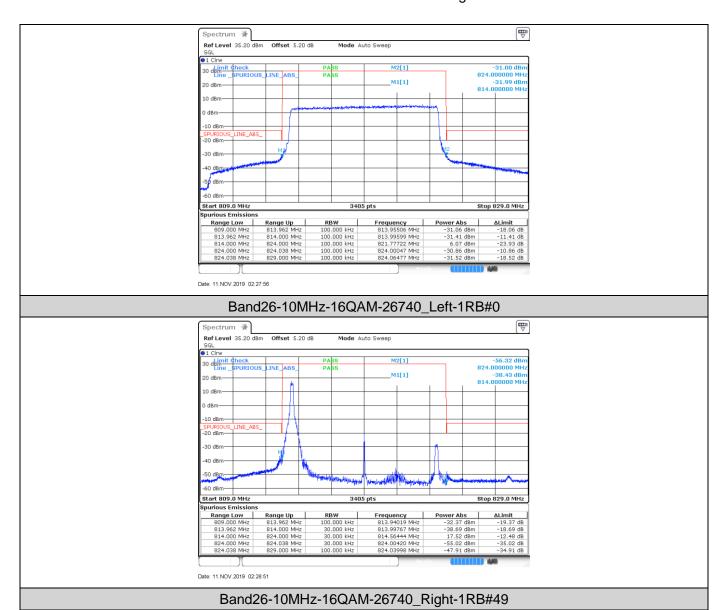
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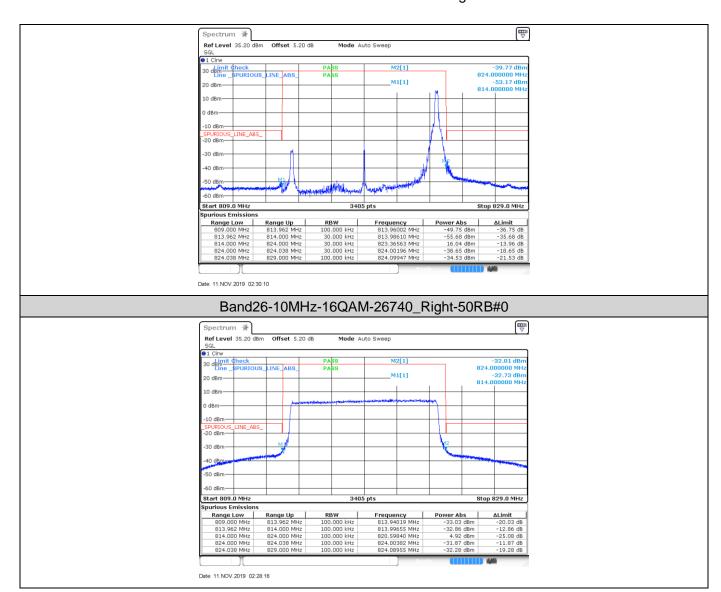
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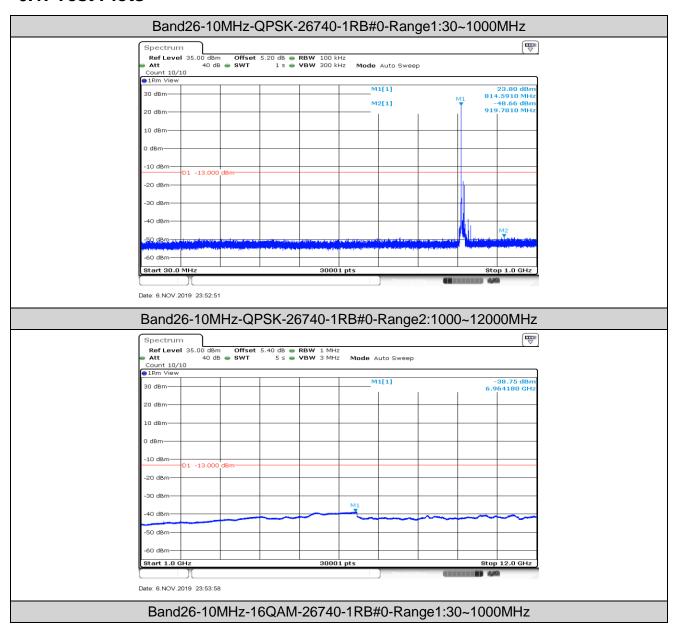
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### 6. Spurious Emission at Antenna Terminal

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 = 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





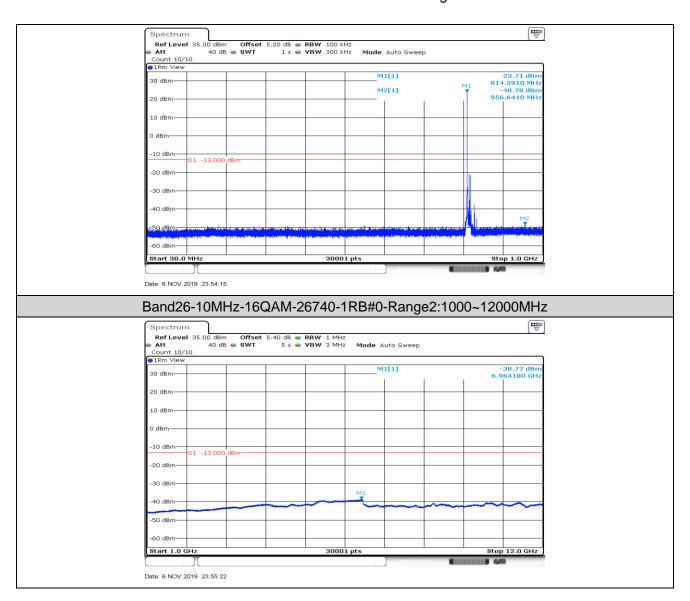
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### 7. Field Strength of Spurious Radiation

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

#### 7.1.1.Test Channel = MCH

Frequency (MHz)	Level (dBm)	Level (dBm) Limit Line (dBm) M		Height (cm)	Angle (°)	Polarization
32.6958	-70.37	-13.00	57.37	167	339	Vertical
111.6012	-64.21	-13.00	51.21	277	346	Vertical
620.7345	-62.56	-13.00	49.56	147	178	Vertical
1746.6960	-48.96	-13.00	35.96	180	21	Vertical
2455.7955	-28.25	-13.00	15.25	174	343	Vertical
8865.4389	-50.34	-13.00	37.34	279	76	Vertical
44.0602	-62.56	-13.00	49.56	304	58	Horizontal
227.4953	-66.83	-13.00	53.83	311	203	Horizontal
1237.9564	-65.10	-13.00	52.10	222	63	Horizontal
1762.3201	-53.26	-13.00	40.26	217	131	Horizontal
2448.2055	-28.86	-13.00	15.86	292	29	Horizontal
8740.4460	-50.55	-13.00	37.55	229	216	Horizontal

#### Remark:

- 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.
- all modulation and all Bandwidth had been tested, but only the worst case data displayed in this report. 3



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### 8. Frequency Stability

### 8.1. Frequency Vs Voltage

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temper ature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band26	10MHz	QPSK	26740	50RB#0	VL	NT	0.10	0.000122	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	VN	NT	-1.10	-0.001343	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	VH	NT	-2.40	-0.002930	±2.5	PASS
Band26	10MHz	16QAM	26740	50RB#0	VL	NT	-0.80	-0.000977	±2.5	PASS
Band26	10MHz	16QAM	26740	50RB#0	VN	NT	-0.10	-0.000122	±2.5	PASS
Band26	10MHz	16QAM	26740	50RB#0	VH	NT	-1.60	-0.001954	±2.5	PASS

### 8.2. Frequency Vs Temperature

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temper ature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band26	10MHz	QPSK	26740	50RB#0	NV	-30	-1.40	-0.001709	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	-20	-1.90	-0.002320	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	0	-2.10	-0.002564	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	10	-2.80	-0.003419	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	20	-1.00	-0.001221	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	30	-2.30	-0.002808	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	40	-0.80	-0.000977	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	50	-2.50	-0.003053	±2.5	PASS
Band26	10MHz	16QAM	26740	50RB#0	NV	-30	-1.00	-0.001221	±2.5	PASS
Band26	10MHz	16QAM	26740	50RB#0	NV	-20	-1.80	-0.002198	±2.5	PASS
Band26	10MHz	16QAM	26740	50RB#0	NV	0	-0.80	-0.000977	±2.5	PASS
Band26	10MHz	16QAM	26740	50RB#0	NV	10	-1.40	-0.001709	±2.5	PASS
Band26	10MHz	16QAM	26740	50RB#0	NV	20	-0.40	-0.000488	±2.5	PASS
Band26	10MHz	16QAM	26740	50RB#0	NV	30	-0.70	-0.000855	±2.5	PASS
Band26	10MHz	16QAM	26740	50RB#0	NV	40	0.20	0.000244	±2.5	PASS
Band26	10MHz	16QAM	26740	50RB#0	NV	50	-1.40	-0.001709	±2.5	PASS

