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# Appendix B

**E-UTRA Band 26 (814MHz-824MHz)** 

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### 1. Conducted Power

### 1.1. Test Result

BAND	Bandwidth	Modulation	Channel	RB	Result	Limit	Verdict
				Configuration	(dBm)	(dBm)	
Band26	1.4MHz	QPSK	26697	1RB#0	24.21	50.00	PASS
Band26	1.4MHz	QPSK	26697	1RB#2	24.17	50.00	PASS
Band26	1.4MHz	QPSK	26697	1RB#5	24.14	50.00	PASS
Band26	1.4MHz	QPSK	26697	3RB#0	24.23	50.00	PASS
Band26	1.4MHz	QPSK	26697	3RB#1	24.34	50.00	PASS
Band26	1.4MHz	QPSK	26697	3RB#3	24.32	50.00	PASS
Band26	1.4MHz	QPSK	26697	6RB#0	23.03	50.00	PASS
Band26	1.4MHz	QPSK	26740	1RB#0	23.95	50.00	PASS
Band26	1.4MHz	QPSK	26740	1RB#2	24.15	50.00	PASS
Band26	1.4MHz	QPSK	26740	1RB#5	23.92	50.00	PASS
Band26	1.4MHz	QPSK	26740	3RB#0	24.15	50.00	PASS
Band26	1.4MHz	QPSK	26740	3RB#1	24.19	50.00	PASS
Band26	1.4MHz	QPSK	26740	3RB#3	24.34	50.00	PASS
Band26	1.4MHz	QPSK	26740	6RB#0	23.08	50.00	PASS
Band26	1.4MHz	QPSK	26783	1RB#0	24.00	50.00	PASS
Band26	1.4MHz	QPSK	26783	1RB#2	24.14	50.00	PASS
Band26	1.4MHz	QPSK	26783	1RB#5	23.82	50.00	PASS
Band26	1.4MHz	QPSK	26783	3RB#0	24.08	50.00	PASS
Band26	1.4MHz	QPSK	26783	3RB#1	24.09	50.00	PASS
Band26	1.4MHz	QPSK	26783	3RB#3	24.36	50.00	PASS
Band26	1.4MHz	QPSK	26783	6RB#0	23.12	50.00	PASS
Band26	1.4MHz	16QAM	26697	1RB#0	22.36	50.00	PASS
Band26	1.4MHz	16QAM	26697	1RB#2	22.74	50.00	PASS
Band26	1.4MHz	16QAM	26697	1RB#5	23.30	50.00	PASS
Band26	1.4MHz	16QAM	26697	3RB#0	23.06	50.00	PASS
Band26	1.4MHz	16QAM	26697	3RB#1	22.92	50.00	PASS
Band26	1.4MHz	16QAM	26697	3RB#3	22.98	50.00	PASS
Band26	1.4MHz	16QAM	26697	6RB#0	22.17	50.00	PASS
Band26	1.4MHz	16QAM	26740	1RB#0	23.17	50.00	PASS
Band26	1.4MHz	16QAM	26740	1RB#2	23.04	50.00	PASS
Band26	1.4MHz	16QAM	26740	1RB#5	23.40	50.00	PASS
Band26	1.4MHz	16QAM	26740	3RB#0	23.21	50.00	PASS
Band26	1.4MHz	16QAM	26740	3RB#1	23.37	50.00	PASS
Band26	1.4MHz	16QAM	26740	3RB#3	23.44	50.00	PASS
Band26	1.4MHz	16QAM	26740	6RB#0	22.03	50.00	PASS



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	1	1	1	ı	1		1
Band26	1.4MHz	16QAM	26783	1RB#0	22.59	50.00	PASS
Band26	1.4MHz	16QAM	26783	1RB#2	23.00	50.00	PASS
Band26	1.4MHz	16QAM	26783	1RB#5	23.03	50.00	PASS
Band26	1.4MHz	16QAM	26783	3RB#0	23.02	50.00	PASS
Band26	1.4MHz	16QAM	26783	3RB#1	23.49	50.00	PASS
Band26	1.4MHz	16QAM	26783	3RB#3	22.94	50.00	PASS
Band26	1.4MHz	16QAM	26783	6RB#0	21.90	50.00	PASS
Band26	3MHz	QPSK	26705	1RB#0	24.12	50.00	PASS
Band26	3MHz	QPSK	26705	1RB#8	24.16	50.00	PASS
Band26	3MHz	QPSK	26705	1RB#14	23.99	50.00	PASS
Band26	3MHz	QPSK	26705	8RB#0	23.00	50.00	PASS
Band26	3MHz	QPSK	26705	8RB#4	23.09	50.00	PASS
Band26	3MHz	QPSK	26705	8RB#7	23.09	50.00	PASS
Band26	3MHz	QPSK	26705	15RB#0	23.08	50.00	PASS
Band26	3MHz	QPSK	26740	1RB#0	24.17	50.00	PASS
Band26	3MHz	QPSK	26740	1RB#8	24.26	50.00	PASS
Band26	3MHz	QPSK	26740	1RB#14	24.23	50.00	PASS
Band26	3MHz	QPSK	26740	8RB#0	23.04	50.00	PASS
Band26	3MHz	QPSK	26740	8RB#4	23.10	50.00	PASS
Band26	3MHz	QPSK	26740	8RB#7	23.06	50.00	PASS
Band26	3MHz	QPSK	26740	15RB#0	23.16	50.00	PASS
Band26	3MHz	QPSK	26775	1RB#0	24.24	50.00	PASS
Band26	3MHz	QPSK	26775	1RB#8	24.11	50.00	PASS
Band26	3MHz	QPSK	26775	1RB#14	24.08	50.00	PASS
Band26	3MHz	QPSK	26775	8RB#0	23.05	50.00	PASS
Band26	3MHz	QPSK	26775	8RB#4	23.04	50.00	PASS
Band26	3MHz	QPSK	26775	8RB#7	22.82	50.00	PASS
Band26	3MHz	QPSK	26775	15RB#0	22.99	50.00	PASS
Band26	3MHz	16QAM	26705	1RB#0	22.72	50.00	PASS
Band26	3MHz	16QAM	26705	1RB#8	22.79	50.00	PASS
Band26	3MHz	16QAM	26705	1RB#14	22.70	50.00	PASS
Band26	3MHz	16QAM	26705	8RB#0	22.14	50.00	PASS
Band26	3MHz	16QAM	26705	8RB#4	22.15	50.00	PASS
Band26	3MHz	16QAM	26705	8RB#7	22.17	50.00	PASS
Band26	3MHz	16QAM	26705	15RB#0	22.22	50.00	PASS
Band26	3MHz	16QAM	26740	1RB#0	22.98	50.00	PASS
Band26	3MHz	16QAM	26740	1RB#8	22.41	50.00	PASS
Band26	3MHz	16QAM	26740	1RB#14	23.13	50.00	PASS
Band26	3MHz	16QAM	26740	8RB#0	21.72	50.00	PASS
Band26	3MHz	16QAM	26740	8RB#4	22.07	50.00	PASS
Band26	3MHz	16QAM	26740	8RB#7	22.25	50.00	PASS
Band26	3MHz	16QAM	26740	15RB#0	22.24	50.00	PASS
	<u> </u>	<u> </u>	I -	_	l	1	



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Band26	3MHz	16QAM	26775	1RB#0	22.54	50.00	PASS
Band26	3MHz	16QAM	26775	1RB#8	22.64	50.00	PASS
Band26	3MHz	16QAM	26775	1RB#14	22.29	50.00	PASS
Band26	3MHz	16QAM	26775	8RB#0	21.78	50.00	PASS
Band26	3MHz	16QAM	26775	8RB#4	21.99	50.00	PASS
Band26	3MHz	16QAM	26775	8RB#7	22.28	50.00	PASS
Band26	3MHz	16QAM	26775	15RB#0	21.89	50.00	PASS
Band26	5MHz	QPSK	26715	1RB#0	23.84	50.00	PASS
Band26	5MHz	QPSK	26715	1RB#12	23.96	50.00	PASS
Band26	5MHz	QPSK	26715	1RB#24	23.97	50.00	PASS
Band26	5MHz	QPSK	26715	12RB#0	23.22	50.00	PASS
Band26	5MHz	QPSK	26715	12RB#6	23.24	50.00	PASS
Band26	5MHz	QPSK	26715	12RB#13	22.95	50.00	PASS
Band26	5MHz	QPSK	26715	25RB#0	23.30	50.00	PASS
Band26	5MHz	QPSK	26740	1RB#0	24.10	50.00	PASS
Band26	5MHz	QPSK	26740	1RB#12	24.21	50.00	PASS
Band26	5MHz	QPSK	26740	1RB#24	24.10	50.00	PASS
Band26	5MHz	QPSK	26740	12RB#0	23.20	50.00	PASS
Band26	5MHz	QPSK	26740	12RB#6	23.31	50.00	PASS
Band26	5MHz	QPSK	26740	12RB#13	23.17	50.00	PASS
Band26	5MHz	QPSK	26740	25RB#0	23.17	50.00	PASS
Band26	5MHz	QPSK	26765	1RB#0	24.11	50.00	PASS
Band26	5MHz	QPSK	26765	1RB#12	24.28	50.00	PASS
Band26	5MHz	QPSK	26765	1RB#24	24.16	50.00	PASS
Band26	5MHz	QPSK	26765	12RB#0	23.25	50.00	PASS
Band26	5MHz	QPSK	26765	12RB#6	23.10	50.00	PASS
Band26	5MHz	QPSK	26765	12RB#13	23.00	50.00	PASS
Band26	5MHz	QPSK	26765	25RB#0	23.13	50.00	PASS
Band26	5MHz	16QAM	26715	1RB#0	23.24	50.00	PASS
Band26	5MHz	16QAM	26715	1RB#12	23.23	50.00	PASS
Band26	5MHz	16QAM	26715	1RB#24	22.49	50.00	PASS
Band26	5MHz	16QAM	26715	12RB#0	22.14	50.00	PASS
Band26	5MHz	16QAM	26715	12RB#6	22.15	50.00	PASS
Band26	5MHz	16QAM	26715	12RB#13	21.97	50.00	PASS
Band26	5MHz	16QAM	26715	25RB#0	22.18	50.00	PASS
Band26	5MHz	16QAM	26740	1RB#0	22.82	50.00	PASS
Band26	5MHz	16QAM	26740	1RB#12	22.46	50.00	PASS
Band26	5MHz	16QAM	26740	1RB#24	22.45	50.00	PASS
Band26	5MHz	16QAM	26740	12RB#0	22.03	50.00	PASS
Band26	5MHz	16QAM	26740	12RB#6	22.20	50.00	PASS
Band26	5MHz	16QAM	26740	12RB#13	21.99	50.00	PASS
Band26	5MHz	16QAM	26740	25RB#0	22.37	50.00	PASS



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Band26	5MHz	16QAM	26765	1RB#0	22.68	50.00	PASS
Band26	5MHz	16QAM	26765	1RB#12	22.69	50.00	PASS
Band26	5MHz	16QAM	26765	1RB#24	22.64	50.00	PASS
Band26	5MHz	16QAM	26765	12RB#0	22.25	50.00	PASS
Band26	5MHz	16QAM	26765	12RB#6	22.04	50.00	PASS
Band26	5MHz	16QAM	26765	12RB#13	22.08	50.00	PASS
Band26	5MHz	16QAM	26765	25RB#0	22.15	50.00	PASS
Band26	10MHz	QPSK	26740	1RB#0	24.07	50.00	PASS
Band26	10MHz	QPSK	26740	1RB#24	23.97	50.00	PASS
Band26	10MHz	QPSK	26740	1RB#49	23.93	50.00	PASS
Band26	10MHz	QPSK	26740	25RB#0	23.27	50.00	PASS
Band26	10MHz	QPSK	26740	25RB#12	23.07	50.00	PASS
Band26	10MHz	QPSK	26740	25RB#25	23.13	50.00	PASS
Band26	10MHz	QPSK	26740	50RB#0	23.14	50.00	PASS
Band26	10MHz	16QAM	26740	1RB#0	23.20	50.00	PASS
Band26	10MHz	16QAM	26740	1RB#24	23.38	50.00	PASS
Band26	10MHz	16QAM	26740	1RB#49	23.06	50.00	PASS
Band26	10MHz	16QAM	26740	25RB#0	22.06	50.00	PASS
Band26	10MHz	16QAM	26740	25RB#12	22.03	50.00	PASS
Band26	10MHz	16QAM	26740	25RB#25	22.18	50.00	PASS
Band26	10MHz	16QAM	26740	50RB#0	22.17	50.00	PASS

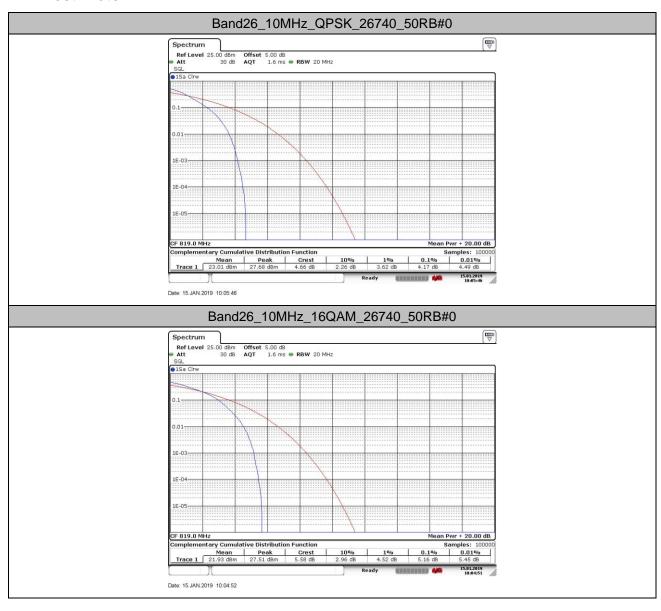
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# 2. Peak-to-Average Ratio(CCDF)

#### 2.1. Test Result

BAND	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band26	10MHz	QPSK	26740	50RB#0	4.17	13	PASS
Band26	10MHz	16QAM	26740	50RB#0	5.16	13	PASS

### 2.2. Test Plots



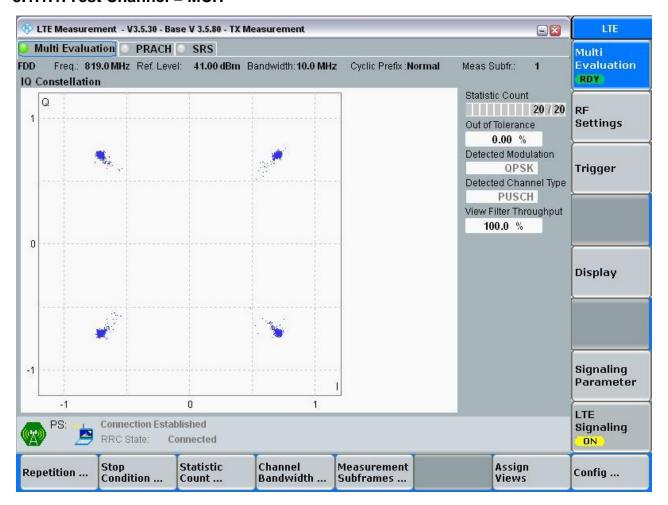
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### 3. Modulation Characteristics

3.1.Test BAND = LTE Band 26

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

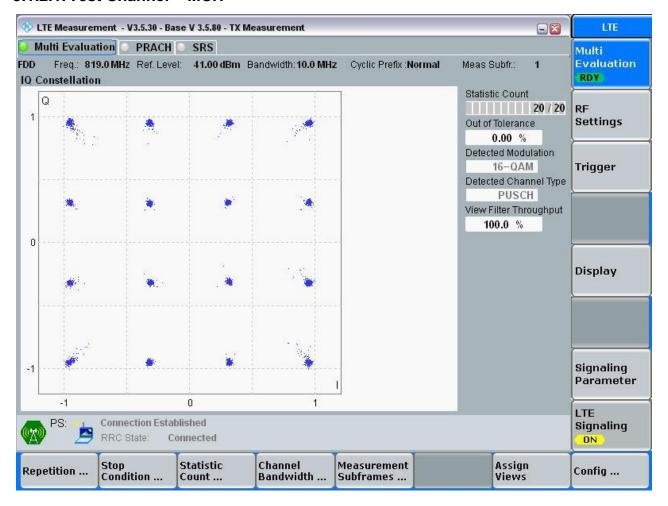
### 3.1.1.1. Test Channel = MCH



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

### 3.1.2.1. Test Channel = MCH



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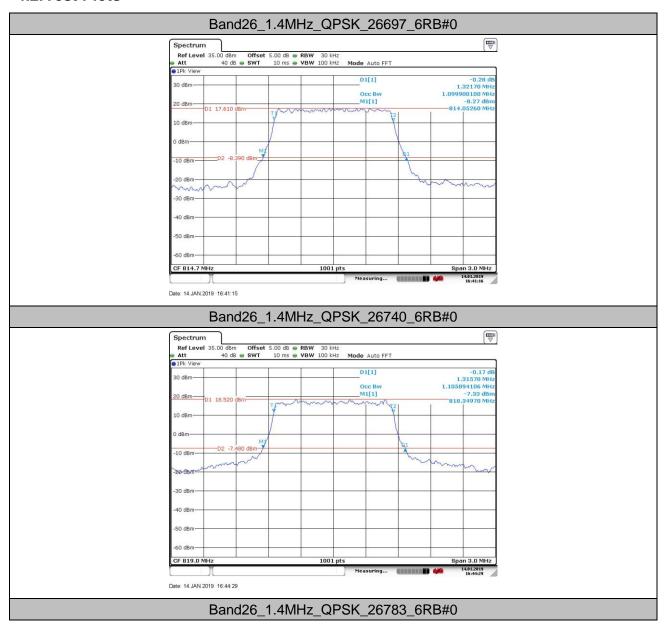
## 4. 26dB Bandwidth and Occupied Bandwidth

### 4.1. Test Result

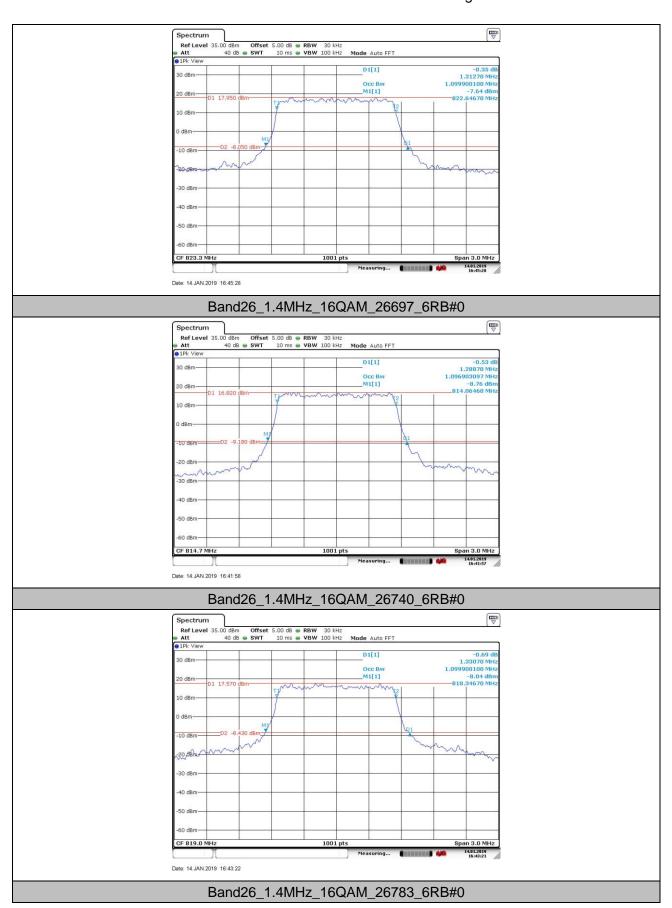
BAND	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band26	1.4MHz	QPSK	26697	6RB#0	1.100	1.322	PASS
Band26	1.4MHz	QPSK	26740	6RB#0	1.106	1.316	PASS
Band26	1.4MHz	QPSK	26783	6RB#0	1.100	1.313	PASS
Band26	1.4MHz	16QAM	26697	6RB#0	1.097	1.289	PASS
Band26	1.4MHz	16QAM	26740	6RB#0	1.100	1.331	PASS
Band26	1.4MHz	16QAM	26783	6RB#0	1.103	1.304	PASS
Band26	3MHz	QPSK	26705	15RB#0	2.691	2.933	PASS
Band26	3MHz	QPSK	26740	15RB#0	2.691	2.951	PASS
Band26	3MHz	QPSK	26775	15RB#0	2.685	2.928	PASS
Band26	3MHz	16QAM	26705	15RB#0	2.685	2.933	PASS
Band26	3MHz	16QAM	26740	15RB#0	2.685	2.933	PASS
Band26	3MHz	16QAM	26775	15RB#0	2.685	2.940	PASS
Band26	5MHz	QPSK	26715	25RB#0	4.486	4.925	PASS
Band26	5MHz	QPSK	26740	25RB#0	4.466	4.883	PASS
Band26	5MHz	QPSK	26765	25RB#0	4.486	4.921	PASS
Band26	5MHz	16QAM	26715	25RB#0	4.486	4.945	PASS
Band26	5MHz	16QAM	26740	25RB#0	4.476	4.943	PASS
Band26	5MHz	16QAM	26765	25RB#0	4.466	4.871	PASS
Band26	10MHz	QPSK	26740	50RB#0	8.911	9.638	PASS
Band26	10MHz	64QAM	26740	50RB#0	8.911	9.658	PASS

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### 4.2. Test Plots

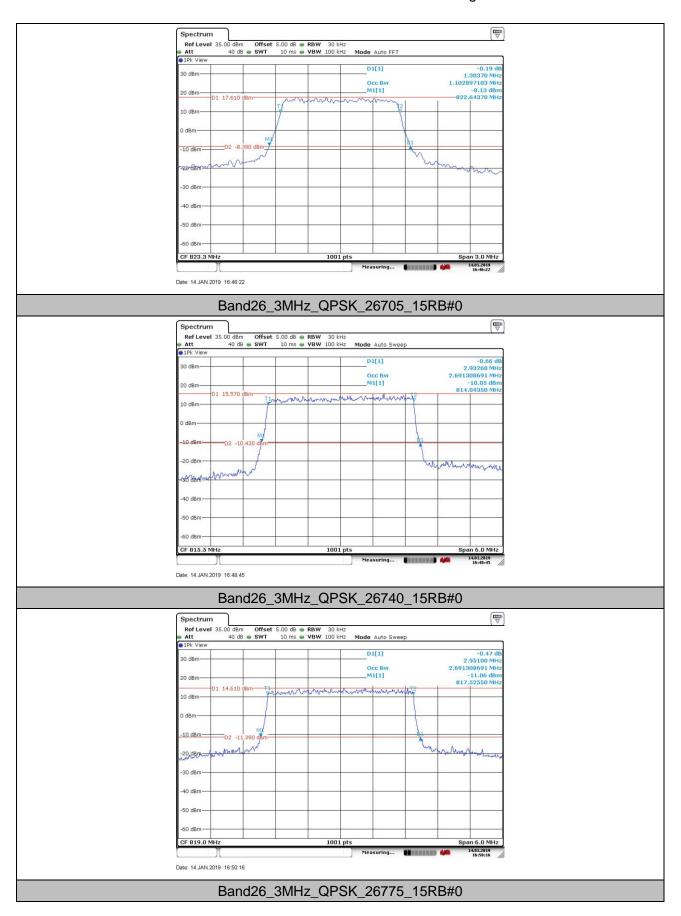


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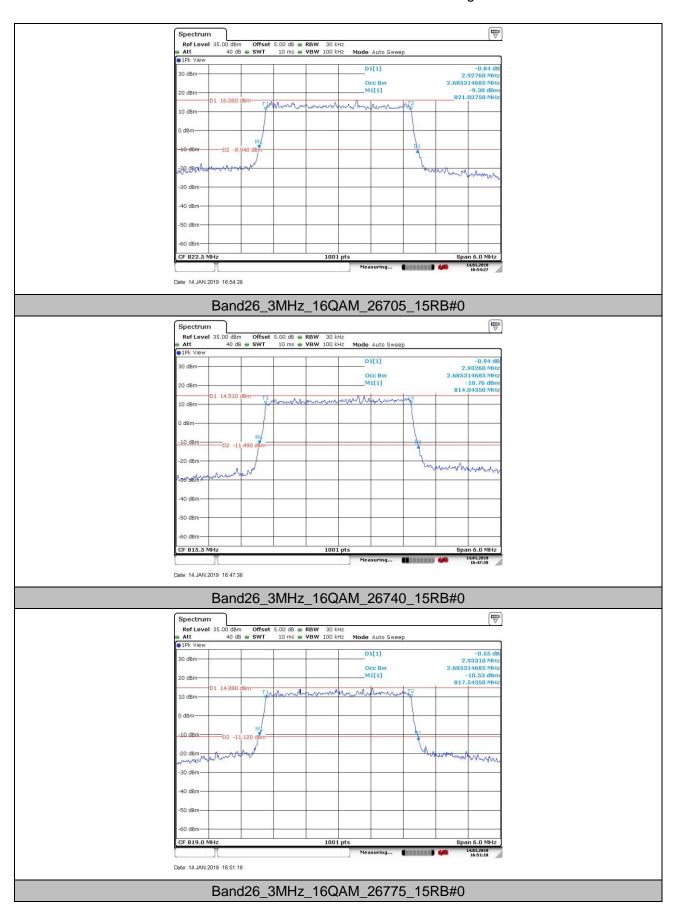


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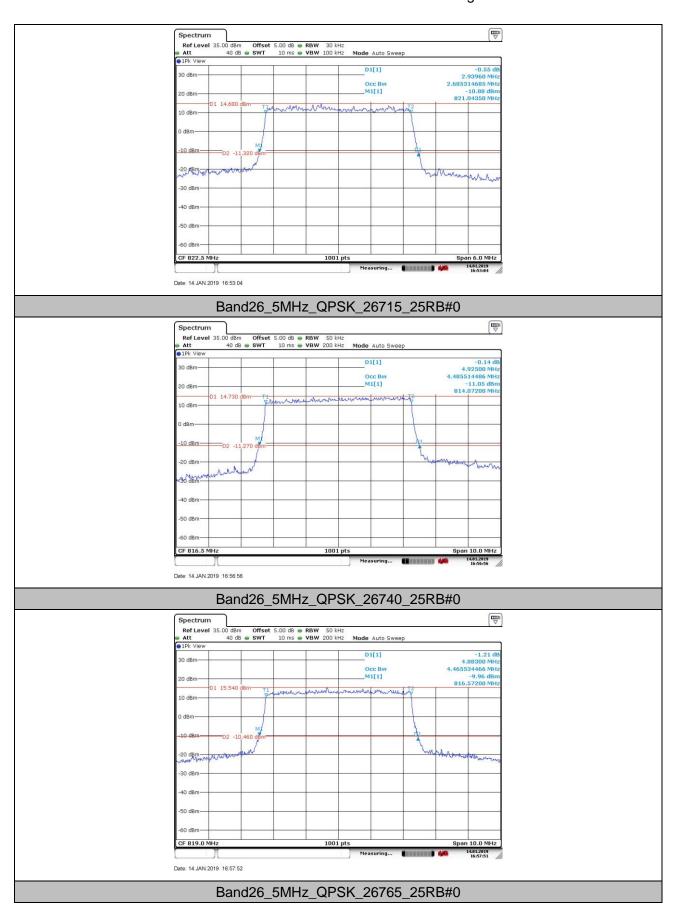


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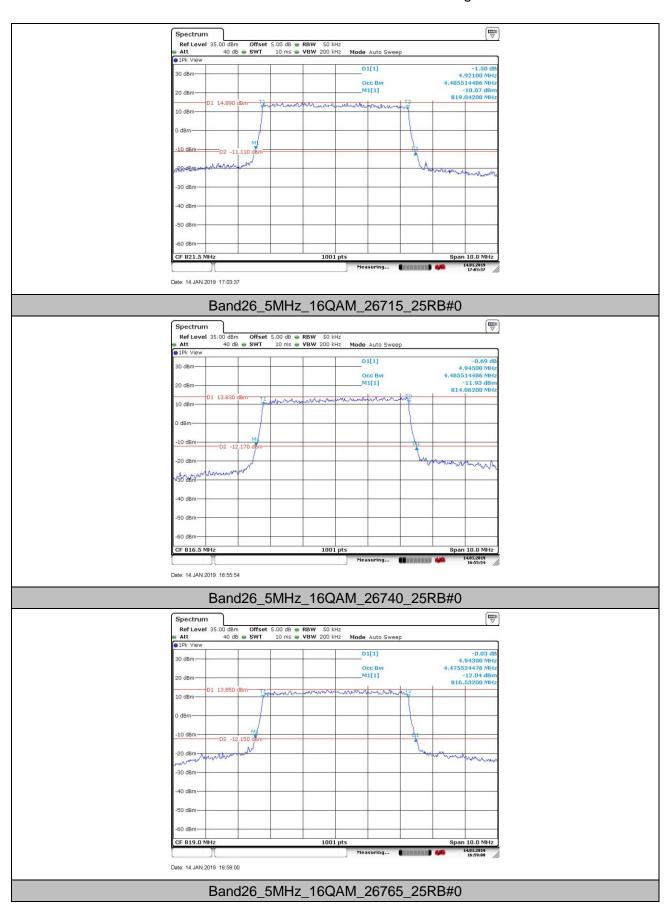


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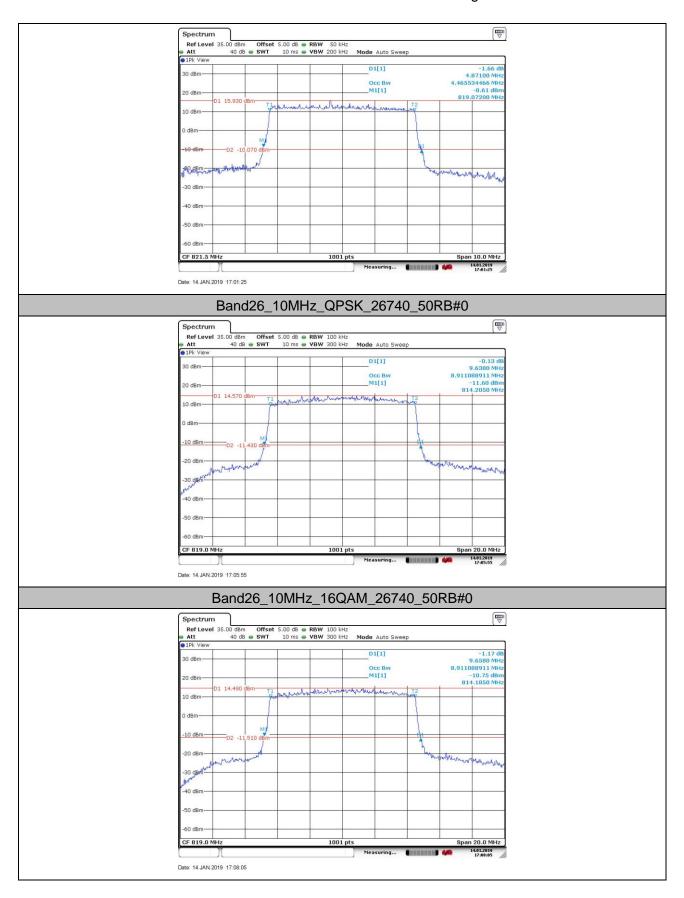
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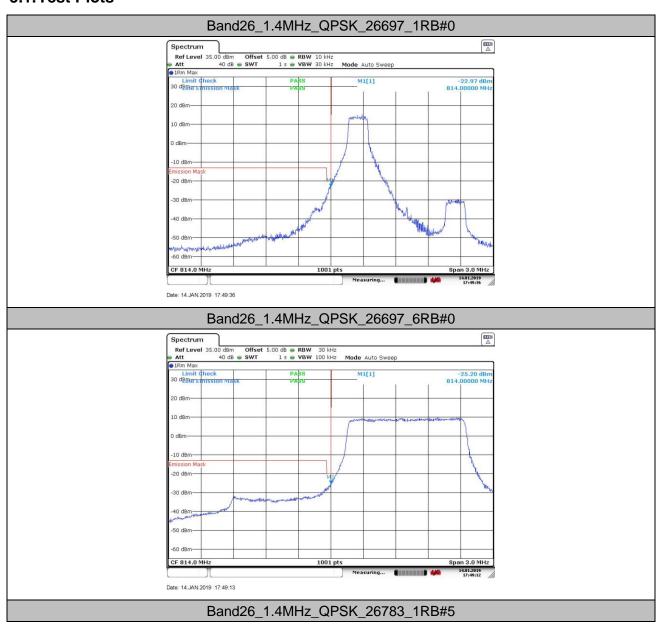
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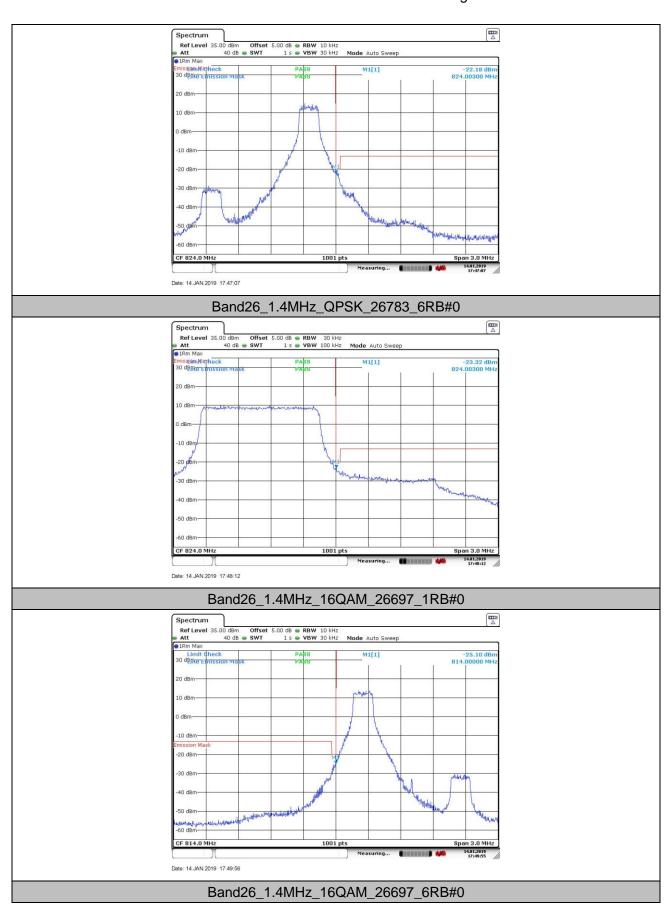
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## 5. Band Edge Compliance

### 5.1. Test Plots

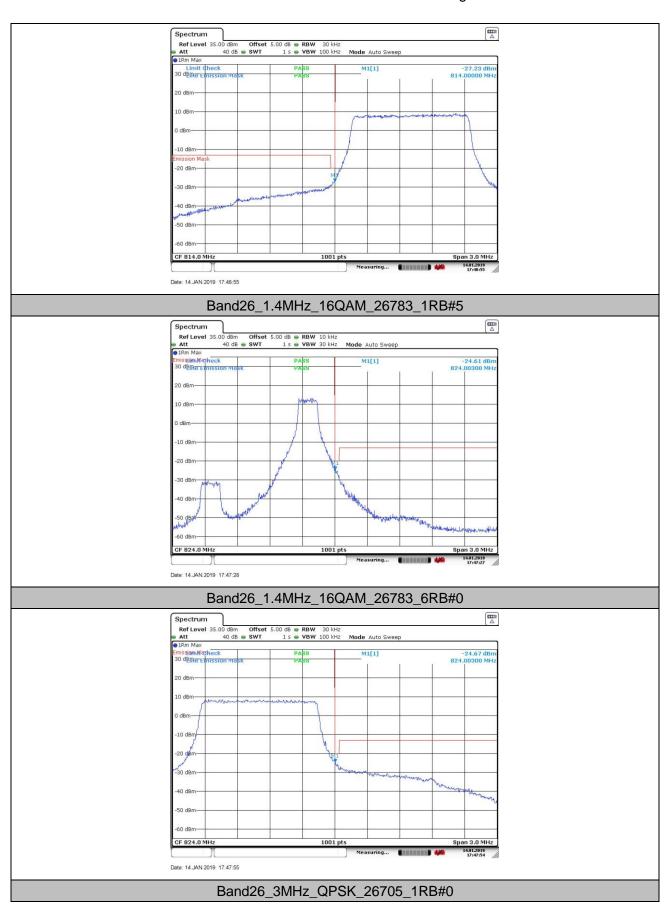


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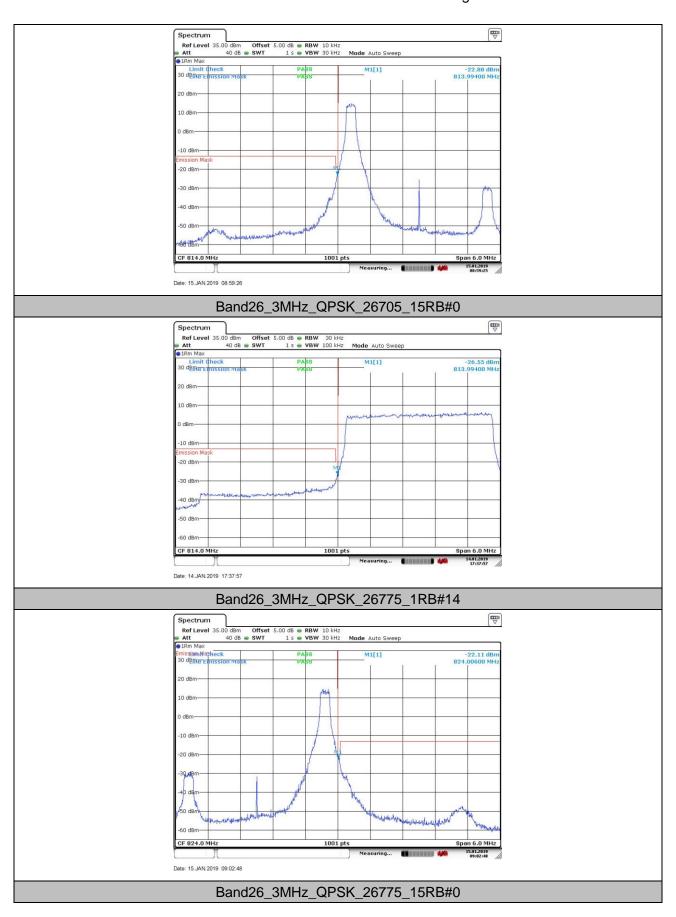


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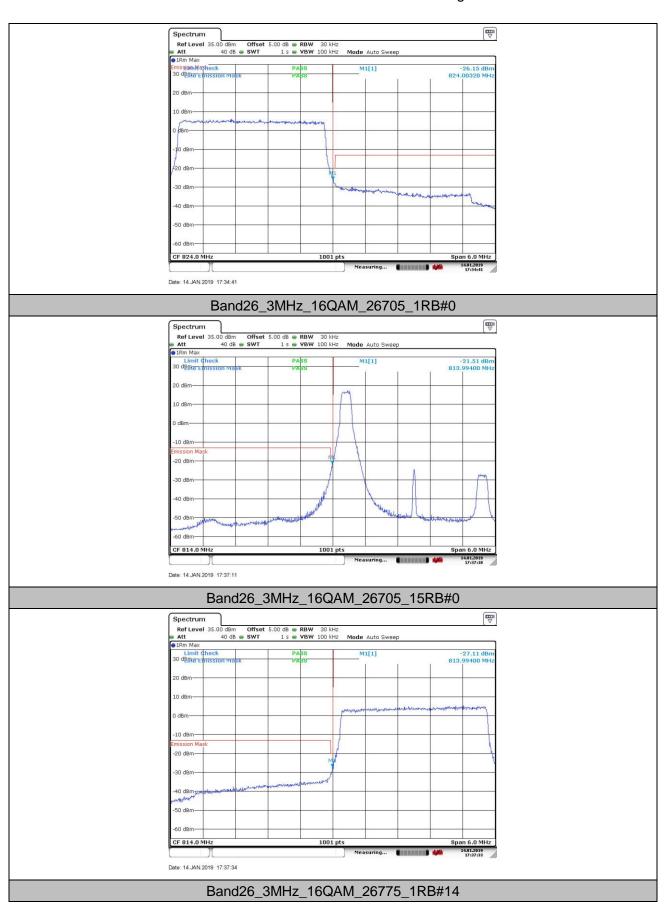


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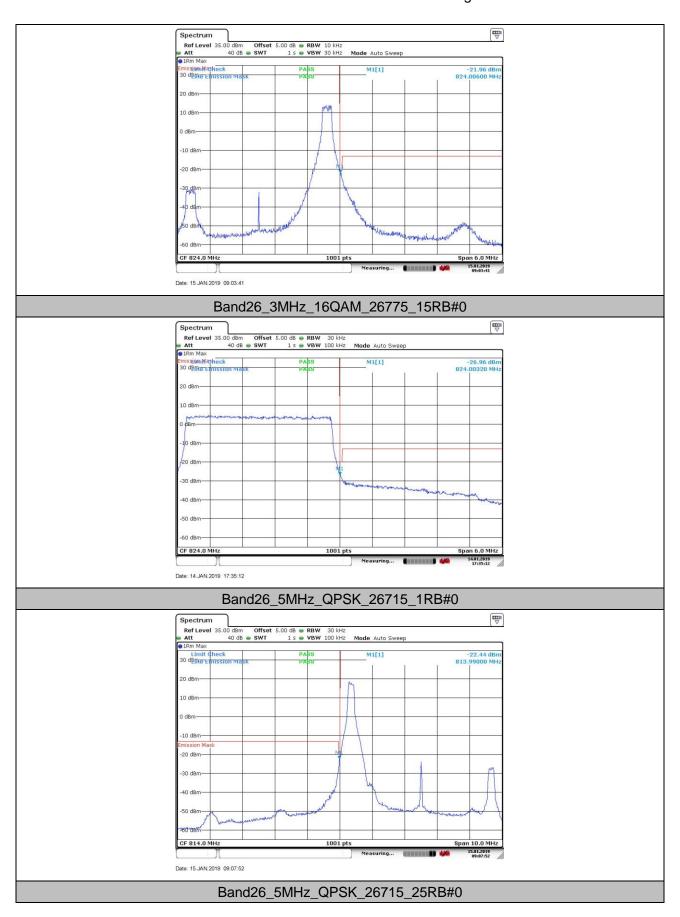
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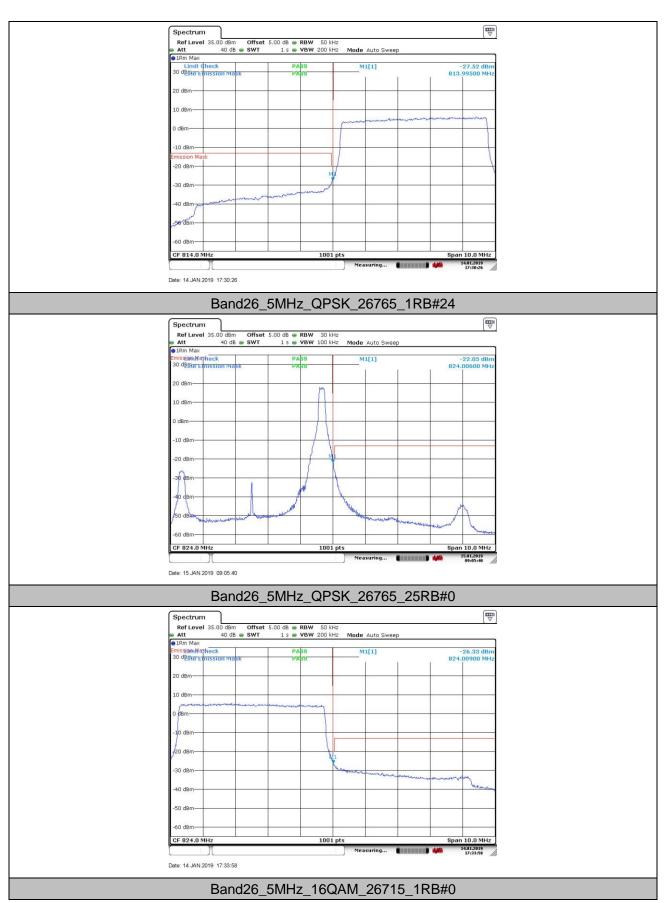




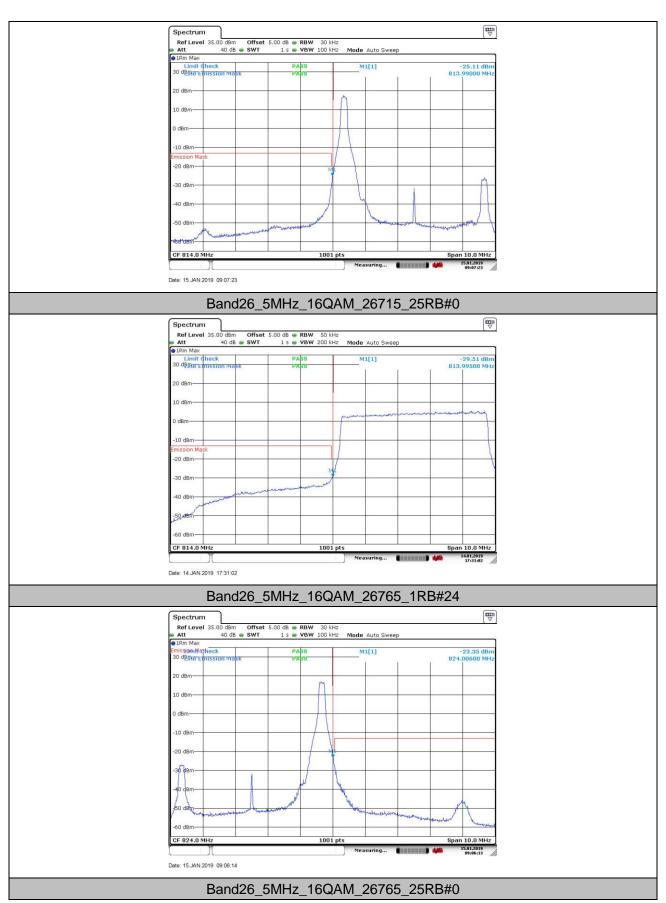
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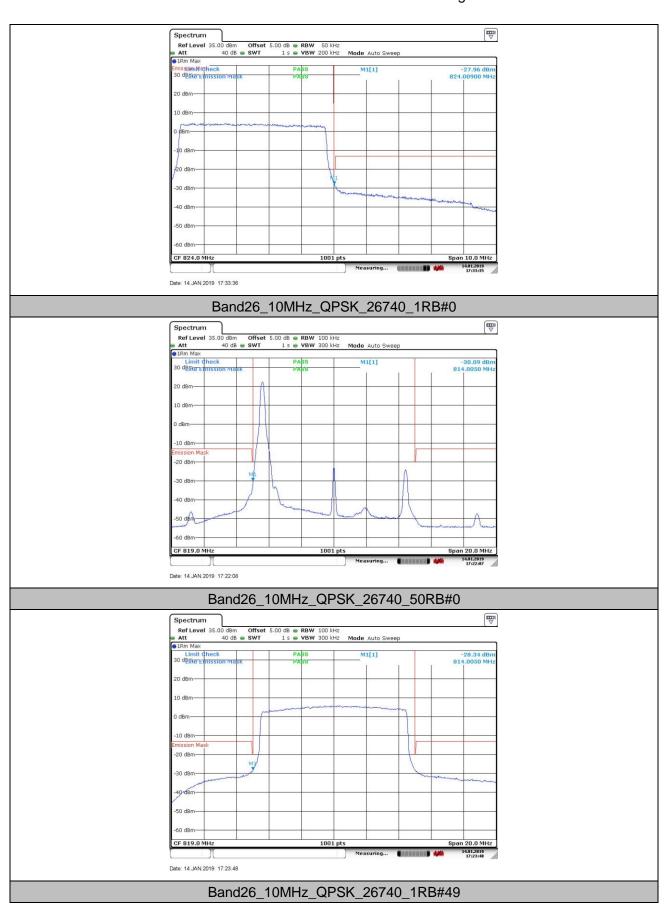


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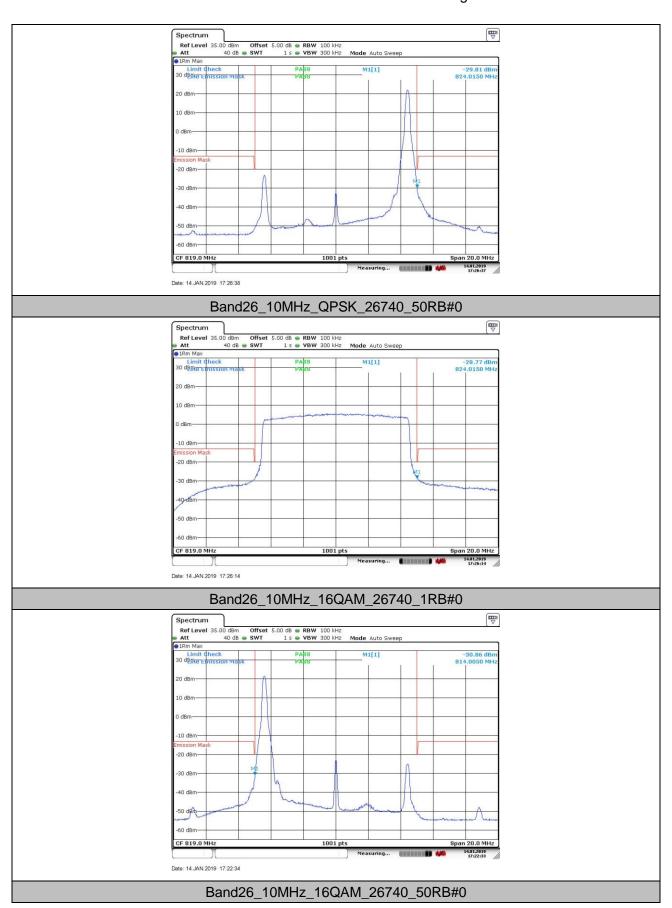


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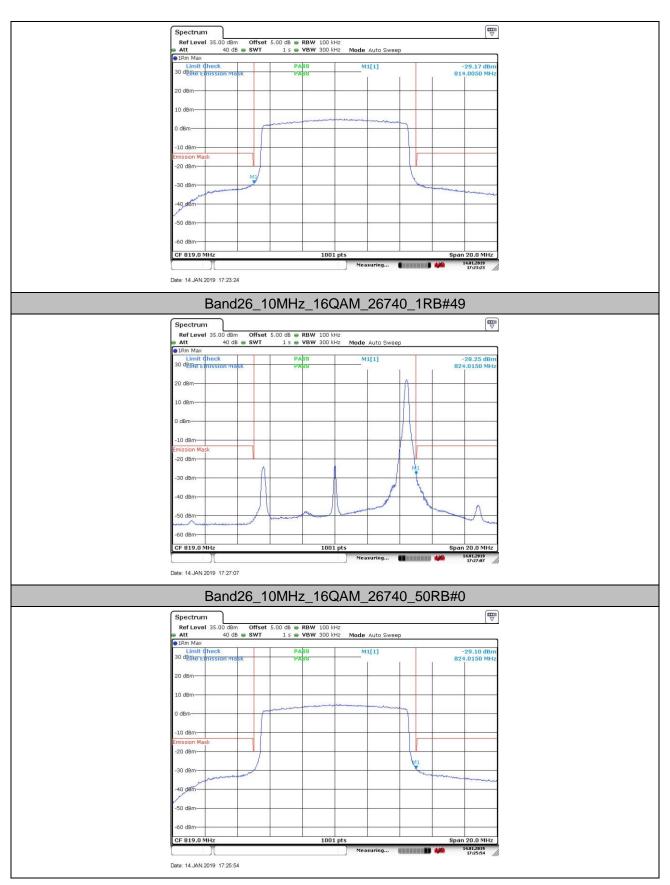


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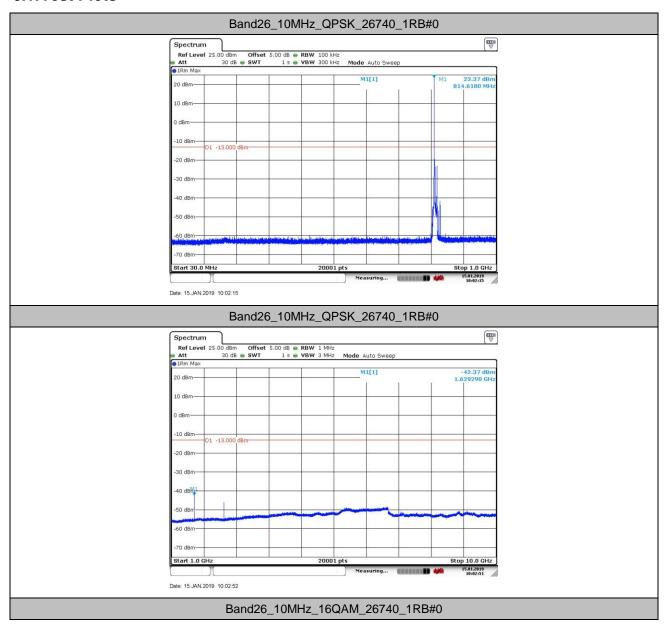
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## 6. Spurious Emission at Antenna Terminal

NOTE1: 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.

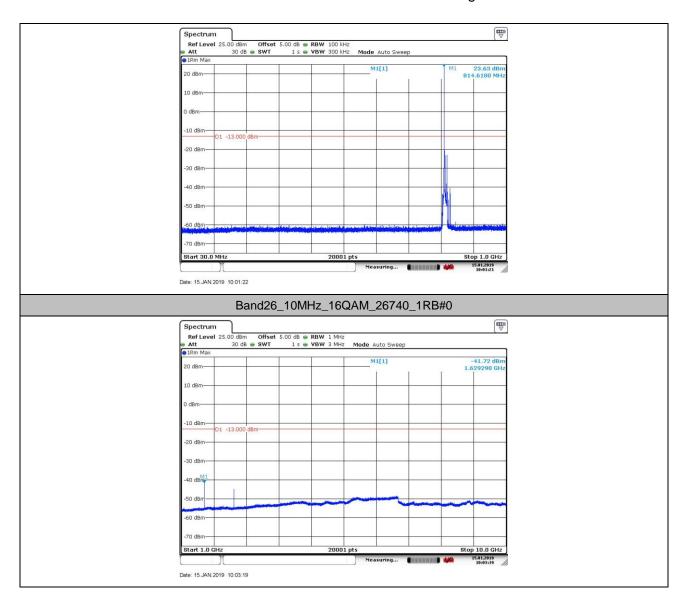
NOTE2: only the worst case data displayed in this report.

#### 6.1. Test Plots



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## 7. Field Strength of Spurious Radiation

### 7.1. Test BAND = LTE Band 26

### 7.1.1. Test Mode =LTE/TM1 10MHz RB1#0

### 7.1.1.1. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
64.113333	-80.43	-13.00	67.43	Vertical
1633.500000	-59.87	-13.00	46.87	Vertical
2454.500000	-57.74	-13.00	44.74	Vertical
3275.925000	-64.26	-13.00	51.26	Vertical
4913.437500	-60.84	-13.00	47.84	Vertical
5732.437500	-65.13	-13.00	52.13	Vertical
62.526667	-76.84	-13.00	63.84	Horizontal
172.800000	-85.16	-13.00	72.16	Horizontal
1633.500000	-62.76	-13.00	49.76	Horizontal
3275.925000	-68.59	-13.00	55.59	Horizontal
4914.412500	-62.46	-13.00	49.46	Horizontal
9248.775000	-63.09	-13.00	50.09	Horizontal

#### NOTE:

- All modes are tested, but the data presented above is the worst case.the disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.
- 2) We have tested all modulation and all Bandwidth, but only the worst case data presented in this report.

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## 8. Frequency Stability

### 8.1. Frequency Vs Voltage

	Voltage												
BAND	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict			
Band26	10MHz	QPSK	26740	50RB#0	VL	NT	-12.09	-0.014765	±2.5	PASS			
Band26	10MHz	QPSK	26740	50RB#0	VN	NT	-11.09	-0.013540	±2.5	PASS			
Band26	10MHz	QPSK	26740	50RB#0	VH	NT	6.79	0.008288	±2.5	PASS			
Band26	10MHz	16QAM	26740	50RB#0	VL	NT	11.39	0.013910	±2.5	PASS			
Band26	10MHz	16QAM	26740	50RB#0	VN	NT	-0.33	-0.000402	±2.5	PASS			
Band26	10MHz	16QAM	26740	50RB#0	VH	NT	-6.21	-0.007579	±2.5	PASS			

### 8.2. Frequency Vs Temperature

				Tem	perature					
BAND	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band26	10MHz	QPSK	26740	50RB#0	NV	-30	10.80	0.013187	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	-20	-7.21	-0.008800	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	0	-11.91	-0.014538	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	10	8.40	0.010261	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	20	-11.26	-0.013750	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	30	11.55	0.014106	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	40	-8.56	-0.010448	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	50	-8.99	-0.010980	±2.5	PASS
Band26	10MHz	16QAM	26740	50RB#0	NV	-30	-8.30	-0.010128	±2.5	PASS
Band26	10MHz	16QAM	26740	50RB#0	NV	-20	2.82	0.003449	±2.5	PASS
Band26	10MHz	16QAM	26740	50RB#0	NV	0	1.40	0.001707	±2.5	PASS
Band26	10MHz	16QAM	26740	50RB#0	NV	10	-10.03	-0.012252	±2.5	PASS
Band26	10MHz	16QAM	26740	50RB#0	NV	20	-7.39	-0.009021	±2.5	PASS
Band26	10MHz	16QAM	26740	50RB#0	NV	30	-12.57	-0.015349	±2.5	PASS
Band26	10MHz	16QAM	26740	50RB#0	NV	40	-10.11	-0.012343	±2.5	PASS
Band26	10MHz	16QAM	26740	50RB#0	NV	50	-7.96	-0.009720	±2.5	PASS

The End