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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 Power(dBm)	Verdict
Band26	1.4MHz	QPSK	26697	1RB#0	23.40	PASS
Band26	1.4MHz	QPSK	26697	1RB#2	23.31	PASS
Band26	1.4MHz	QPSK	26697	1RB#5	23.17	PASS
Band26	1.4MHz	QPSK	26697	3RB#0	23.38	PASS
Band26	1.4MHz	QPSK	26697	3RB#1	23.57	PASS
Band26	1.4MHz	QPSK	26697	3RB#3	23.58	PASS
Band26	1.4MHz	QPSK	26697	6RB#0	22.51	PASS
Band26	1.4MHz	QPSK	26740	1RB#0	23.57	PASS
Band26	1.4MHz	QPSK	26740	1RB#2	23.57	PASS
Band26	1.4MHz	QPSK	26740	1RB#5	23.59	PASS
Band26	1.4MHz	QPSK	26740	3RB#0	23.70	PASS
Band26	1.4MHz	QPSK	26740	3RB#1	23.73	PASS
Band26	1.4MHz	QPSK	26740	3RB#3	23.90	PASS
Band26	1.4MHz	QPSK	26740	6RB#0	22.72	PASS
Band26	1.4MHz	QPSK	26783	1RB#0	23.44	PASS
Band26	1.4MHz	QPSK	26783	1RB#2	23.65	PASS
Band26	1.4MHz	QPSK	26783	1RB#5	23.44	PASS
Band26	1.4MHz	QPSK	26783	3RB#0	23.66	PASS
Band26	1.4MHz	QPSK	26783	3RB#1	23.82	PASS
Band26	1.4MHz	QPSK	26783	3RB#3	23.83	PASS
Band26	1.4MHz	QPSK	26783	6RB#0	22.63	PASS
Band26	1.4MHz	16QAM	26697	1RB#0	22.19	PASS
Band26	1.4MHz	16QAM	26697	1RB#2	22.28	PASS
Band26	1.4MHz	16QAM	26697	1RB#5	22.24	PASS
Band26	1.4MHz	16QAM	26697	3RB#0	22.65	PASS
Band26	1.4MHz	16QAM	26697	3RB#1	22.59	PASS
Band26	1.4MHz	16QAM	26697	3RB#3	22.61	PASS
Band26	1.4MHz	16QAM	26697	6RB#0	21.51	PASS
Band26	1.4MHz	16QAM	26740	1RB#0	22.21	PASS
Band26	1.4MHz	16QAM	26740	1RB#2	22.23	PASS
Band26	1.4MHz	16QAM	26740	1RB#5	22.07	PASS
Band26	1.4MHz	16QAM	26740	3RB#0	22.91	PASS



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Dondae	1 411117	16001	26740	2DD#1	22.05	DACC
Band26	1.4MHz	16QAM	26740	3RB#1	22.95	PASS
Band26	1.4MHz	16QAM	26740	3RB#3	22.79	PASS
Band26	1.4MHz	16QAM	26740	6RB#0	21.68	PASS
Band26	1.4MHz	16QAM	26783	1RB#0	22.28	PASS
Band26	1.4MHz	16QAM	26783	1RB#2	22.36	PASS
Band26	1.4MHz	16QAM	26783	1RB#5	22.16	PASS
Band26	1.4MHz	16QAM	26783	3RB#0	22.87	PASS
Band26	1.4MHz	16QAM	26783	3RB#1	22.86	PASS
Band26	1.4MHz	16QAM	26783	3RB#3	22.78	PASS
Band26	1.4MHz	16QAM	26783	6RB#0	21.67	PASS
Band26	3MHz	QPSK	26705	1RB#0	23.54	PASS
Band26	3MHz	QPSK	26705	1RB#8	23.55	PASS
Band26	3MHz	QPSK	26705	1RB#14	23.53	PASS
Band26	3MHz	QPSK	26705	8RB#0	22.66	PASS
Band26	3MHz	QPSK	26705	8RB#4	22.53	PASS
Band26	3MHz	QPSK	26705	8RB#7	22.50	PASS
Band26	3MHz	QPSK	26705	15RB#0	22.58	PASS
Band26	3MHz	QPSK	26740	1RB#0	23.58	PASS
Band26	3MHz	QPSK	26740	1RB#8	23.75	PASS
Band26	3MHz	QPSK	26740	1RB#14	23.64	PASS
Band26	3MHz	QPSK	26740	8RB#0	22.79	PASS
Band26	3MHz	QPSK	26740	8RB#4	22.73	PASS
Band26	3MHz	QPSK	26740	8RB#7	22.69	PASS
Band26	3MHz	QPSK	26740	15RB#0	22.69	PASS
Band26	3MHz	QPSK	26775	1RB#0	23.62	PASS
Band26	3MHz	QPSK	26775	1RB#8	23.70	PASS
Band26	3MHz	QPSK	26775	1RB#14	23.22	PASS
Band26	3MHz	QPSK	26775	8RB#0	22.77	PASS
Band26	3MHz	QPSK	26775	8RB#4	22.76	PASS
Band26	3MHz	QPSK	26775	8RB#7	22.70	PASS
Band26	3MHz	QPSK	26775	15RB#0	22.72	PASS
Band26	3MHz	16QAM	26705	1RB#0	22.18	PASS
Band26	3MHz	16QAM	26705	1RB#8	22.16	PASS
Band26	3MHz	16QAM	26705	1RB#14	22.19	PASS
Band26	3MHz	16QAM	26705	8RB#0	21.45	PASS
Band26	3MHz	16QAM	26705	8RB#4	21.42	PASS
Band26	3MHz	16QAM	26705	8RB#7	21.39	PASS
Band26	3MHz	16QAM	26705	15RB#0	21.51	PASS



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Band26	3MHz	16QAM	26740	1RB#0	22.36	PASS
Band26	3MHz	16QAM	26740	1RB#8	22.29	PASS
Band26	3MHz	16QAM	26740	1RB#14	22.29	PASS
Band26	3MHz	16QAM	26740	8RB#0	21.89	PASS
Band26	3MHz	16QAM	26740	8RB#4	21.59	PASS
Band26	3MHz	16QAM	26740	8RB#7	21.58	PASS
Band26	3MHz	16QAM	26740	15RB#0	21.93	PASS
Band26	3MHz	16QAM	26775	1RB#0	22.10	PASS
Band26	3MHz	16QAM	26775	1RB#8	22.27	PASS
Band26	3MHz	16QAM	26775	1RB#14	22.06	PASS
Band26	3MHz	16QAM	26775	8RB#0	21.58	PASS
Band26	3MHz	16QAM	26775	8RB#4	21.62	PASS
Band26	3MHz	16QAM	26775	8RB#7	21.68	PASS
Band26	3MHz	16QAM	26775	15RB#0	21.84	PASS
Band26	5MHz	QPSK	26715	1RB#0	23.43	PASS
Band26	5MHz	QPSK	26715	1RB#12	23.71	PASS
Band26	5MHz	QPSK	26715	1RB#24	23.53	PASS
Band26	5MHz	QPSK	26715	12RB#0	22.64	PASS
Band26	5MHz	QPSK	26715	12RB#6	22.58	PASS
Band26	5MHz	QPSK	26715	12RB#13	22.68	PASS
Band26	5MHz	QPSK	26715	25RB#0	22.60	PASS
Band26	5MHz	QPSK	26740	1RB#0	23.42	PASS
Band26	5MHz	QPSK	26740	1RB#12	23.83	PASS
Band26	5MHz	QPSK	26740	1RB#24	23.29	PASS
Band26	5MHz	QPSK	26740	12RB#0	22.74	PASS
Band26	5MHz	QPSK	26740	12RB#6	22.83	PASS
Band26	5MHz	QPSK	26740	12RB#13	22.71	PASS
Band26	5MHz	QPSK	26740	25RB#0	22.65	PASS
Band26	5MHz	QPSK	26765	1RB#0	23.30	PASS
Band26	5MHz	QPSK	26765	1RB#12	23.67	PASS
Band26	5MHz	QPSK	26765	1RB#24	23.18	PASS
Band26	5MHz	QPSK	26765	12RB#0	22.70	PASS
Band26	5MHz	QPSK	26765	12RB#6	22.62	PASS
Band26	5MHz	QPSK	26765	12RB#13	22.65	PASS
Band26	5MHz	QPSK	26765	25RB#0	22.75	PASS
Band26	5MHz	16QAM	26715	1RB#0	22.11	PASS
Band26	5MHz	16QAM	26715	1RB#12	22.50	PASS
Band26	5MHz	16QAM	26715	1RB#24	22.05	PASS



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Band26	5MHz	16QAM	26715	12RB#0	21.56	PASS
Band26	5MHz	16QAM	26715	12RB#6	21.52	PASS
Band26	5MHz	16QAM	26715	12RB#13	21.42	PASS
Band26	5MHz	16QAM	26715	25RB#0	21.52	PASS
Band26	5MHz	16QAM	26740	1RB#0	22.25	PASS
Band26	5MHz	16QAM	26740	1RB#12	22.50	PASS
Band26	5MHz	16QAM	26740	1RB#24	22.25	PASS
Band26	5MHz	16QAM	26740	12RB#0	21.72	PASS
Band26	5MHz	16QAM	26740	12RB#6	21.70	PASS
Band26	5MHz	16QAM	26740	12RB#13	21.41	PASS
Band26	5MHz	16QAM	26740	25RB#0	21.61	PASS
Band26	5MHz	16QAM	26765	1RB#0	22.13	PASS
Band26	5MHz	16QAM	26765	1RB#12	22.67	PASS
Band26	5MHz	16QAM	26765	1RB#24	21.78	PASS
Band26	5MHz	16QAM	26765	12RB#0	21.51	PASS
Band26	5MHz	16QAM	26765	12RB#6	21.67	PASS
Band26	5MHz	16QAM	26765	12RB#13	21.61	PASS
Band26	5MHz	16QAM	26765	25RB#0	21.58	PASS
Band26	10MHz	QPSK	26740	1RB#0	23.42	PASS
Band26	10MHz	QPSK	26740	1RB#24	24.07	PASS
Band26	10MHz	QPSK	26740	1RB#49	23.27	PASS
Band26	10MHz	QPSK	26740	25RB#0	22.79	PASS
Band26	10MHz	QPSK	26740	25RB#12	22.85	PASS
Band26	10MHz	QPSK	26740	25RB#25	22.66	PASS
Band26	10MHz	QPSK	26740	50RB#0	22.64	PASS
Band26	10MHz	16QAM	26740	1RB#0	22.34	PASS
Band26	10MHz	16QAM	26740	1RB#24	22.40	PASS
Band26	10MHz	16QAM	26740	1RB#49	22.40	PASS
Band26	10MHz	16QAM	26740	27RB#0	21.57	PASS



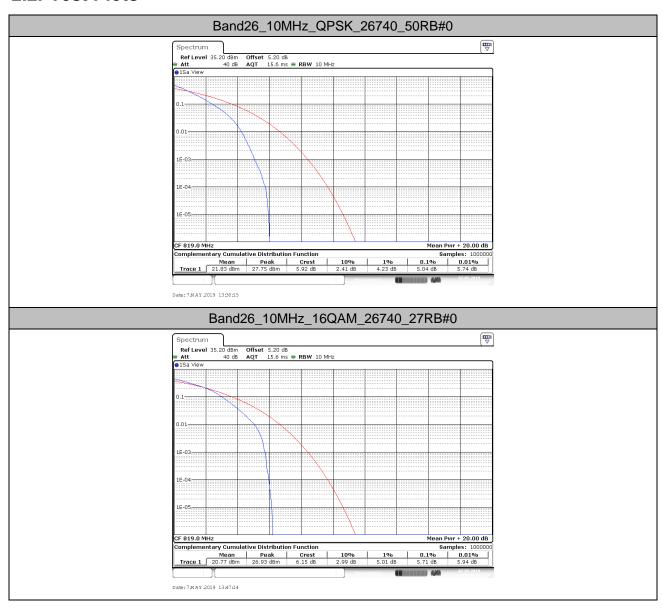
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2. Peak-to-Average Ratio(CCDF)

2.1. Test Result

BAND	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band26	10MHz	QPSK	26740	50RB#0	5.04	13	PASS
Band26	10MHz	16QAM	26740	27RB#0	5.71	13	PASS

2.2. Test Plots





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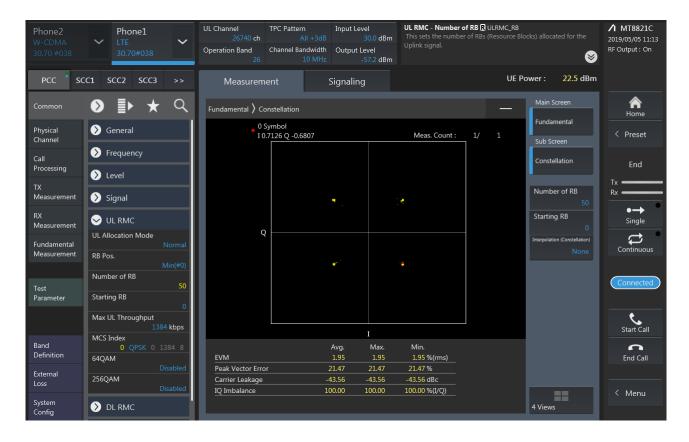
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3. Modulation Characteristics

- 3.1. Test BAND = LTE Band 26
- 3.2. Test Mode = LTE /TM1 10MHz
- 3.2.1.Test Channel = MCH

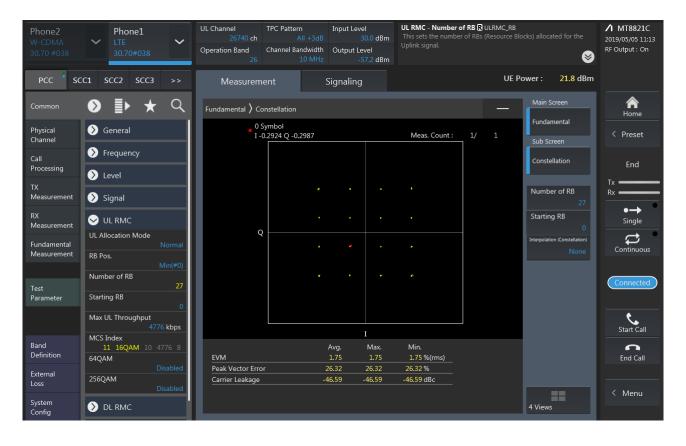




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3.3. Test Mode = LTE /TM2 10MHz

3.3.1.Test Channel = MCH





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4. 26dB Bandwidth and Occupied Bandwidth

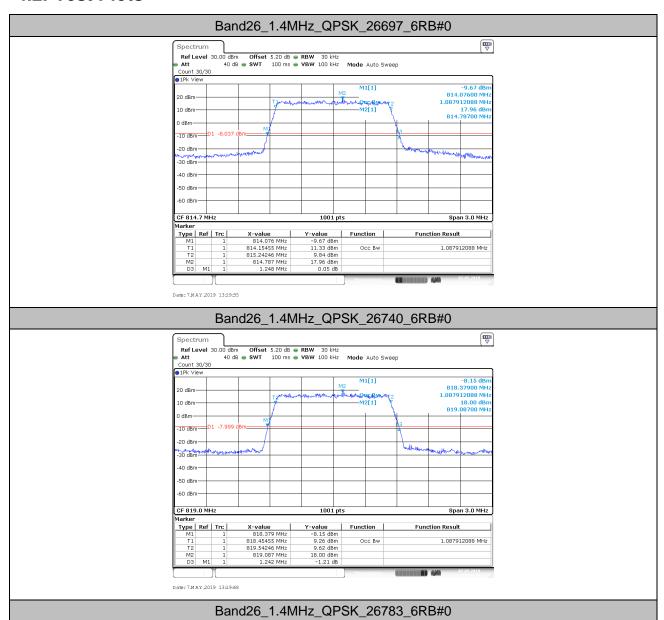
4.1. Test Result

BAND	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band26	1.4MHz	QPSK	26697	6RB#0	1.088	1.248	PASS
Band26	1.4MHz	QPSK	26740	6RB#0	1.088	1.242	PASS
Band26	1.4MHz	QPSK	26783	6RB#0	1.085	1.239	PASS
Band26	1.4MHz	16QAM	26697	6RB#0	1.088	1.233	PASS
Band26	1.4MHz	16QAM	26740	6RB#0	1.085	1.236	PASS
Band26	1.4MHz	16QAM	26783	6RB#0	1.085	1.233	PASS
Band26	3MHz	QPSK	26705	15RB#0	2.697	3.024	PASS
Band26	3MHz	QPSK	26740	15RB#0	2.697	3.024	PASS
Band26	3MHz	QPSK	26775	15RB#0	2.685	3.000	PASS
Band26	3MHz	16QAM	26705	15RB#0	2.685	2.976	PASS
Band26	3MHz	16QAM	26740	15RB#0	2.685	2.982	PASS
Band26	3MHz	16QAM	26775	15RB#0	2.685	2.982	PASS
Band26	5MHz	QPSK	26715	25RB#0	4.476	4.910	PASS
Band26	5MHz	QPSK	26740	25RB#0	4.466	4.900	PASS
Band26	5MHz	QPSK	26765	25RB#0	4.466	4.890	PASS
Band26	5MHz	16QAM	26715	25RB#0	4.486	4.920	PASS
Band26	5MHz	16QAM	26740	25RB#0	4.486	4.920	PASS
Band26	5MHz	16QAM	26765	25RB#0	4.486	4.910	PASS
Band26	10MHz	QPSK	26740	50RB#0	8.911	9.700	PASS
Band26	10MHz	16QAM	26740	27RB#0	4.875	5.720	PASS



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4.2. Test Plots

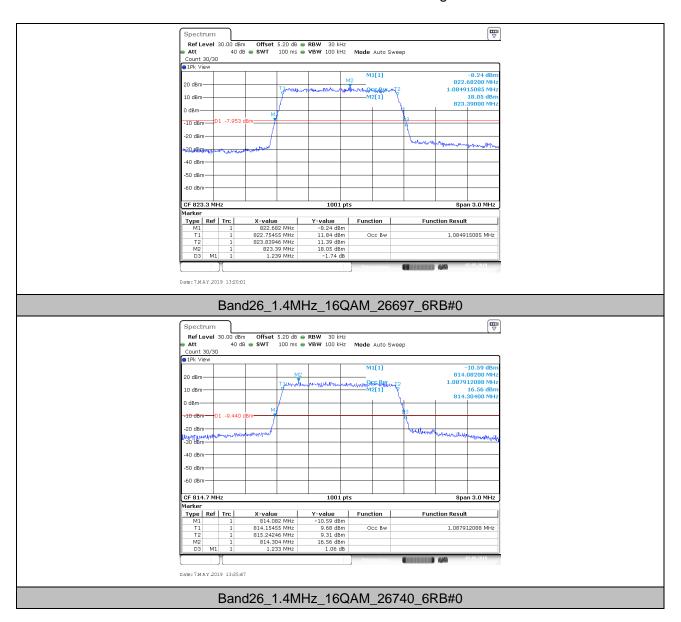






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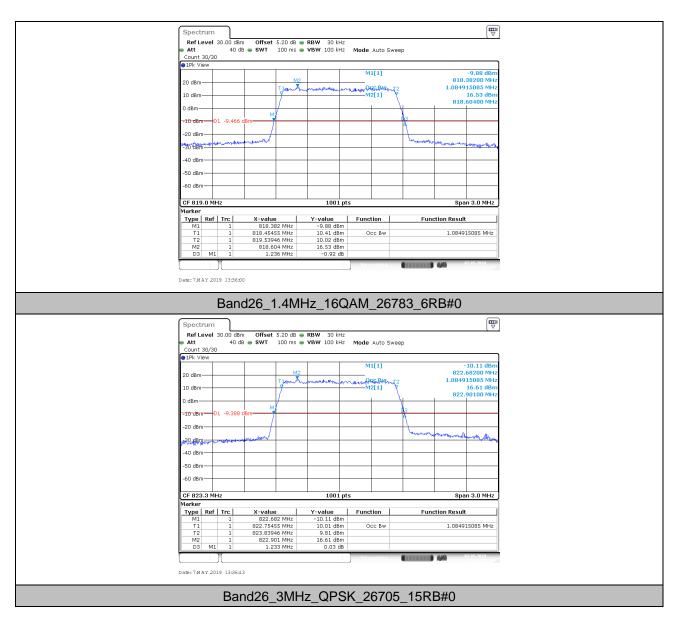






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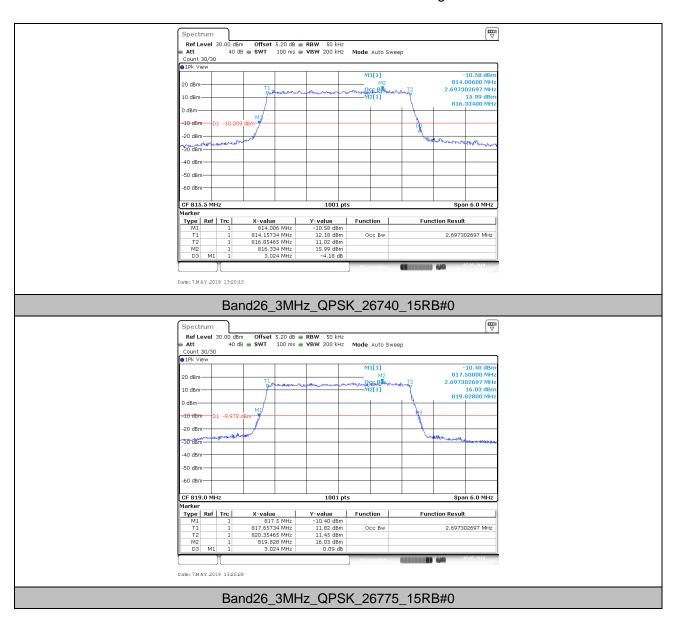
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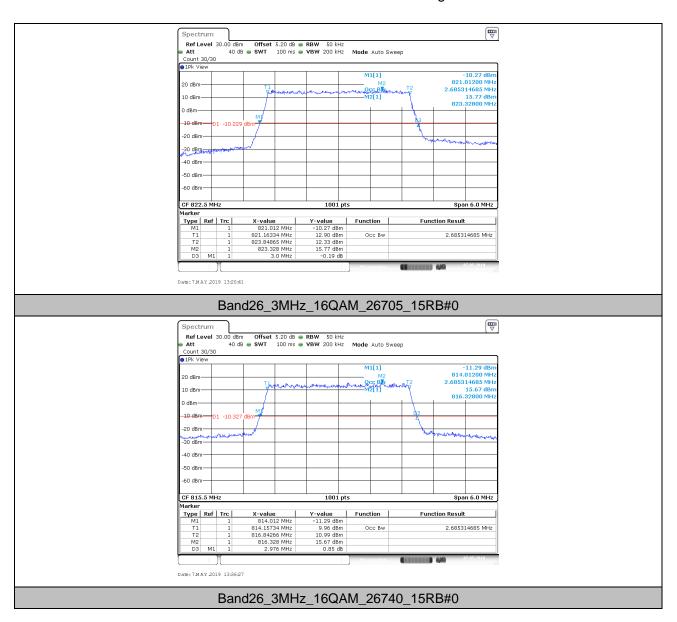
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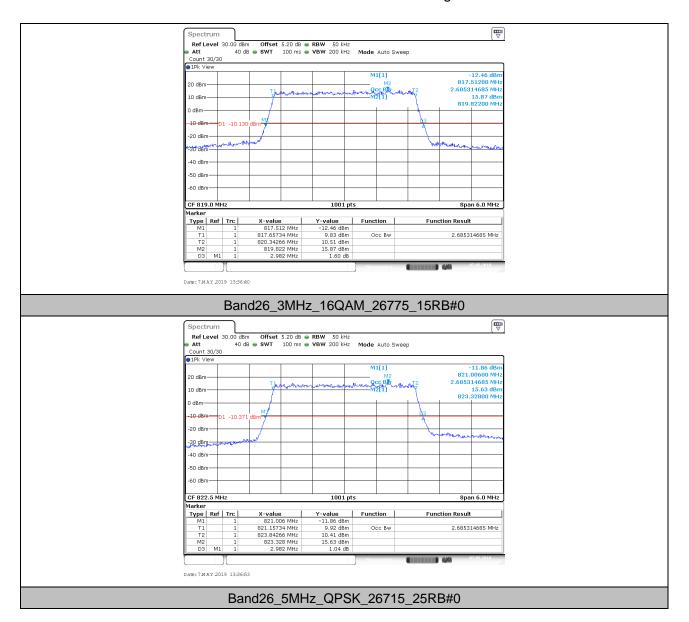
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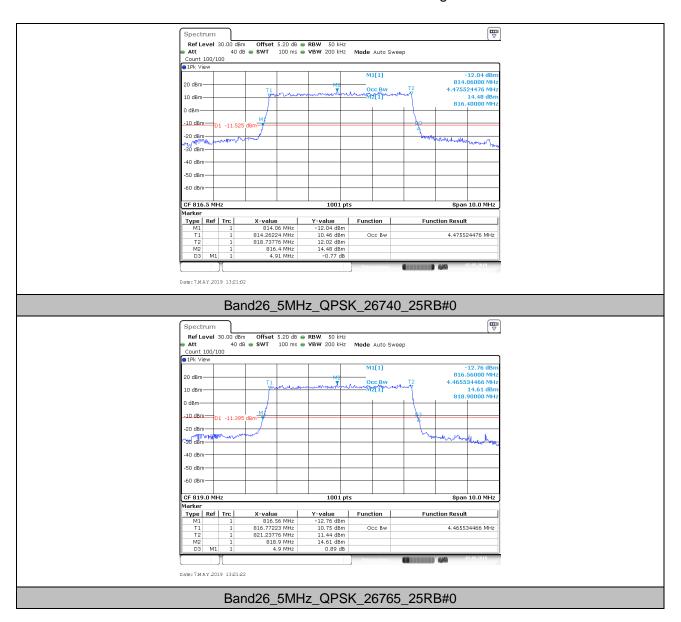






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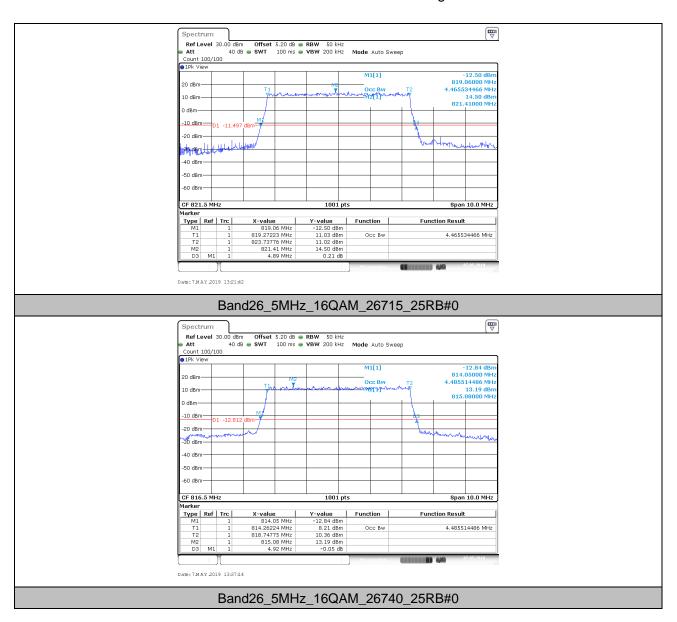






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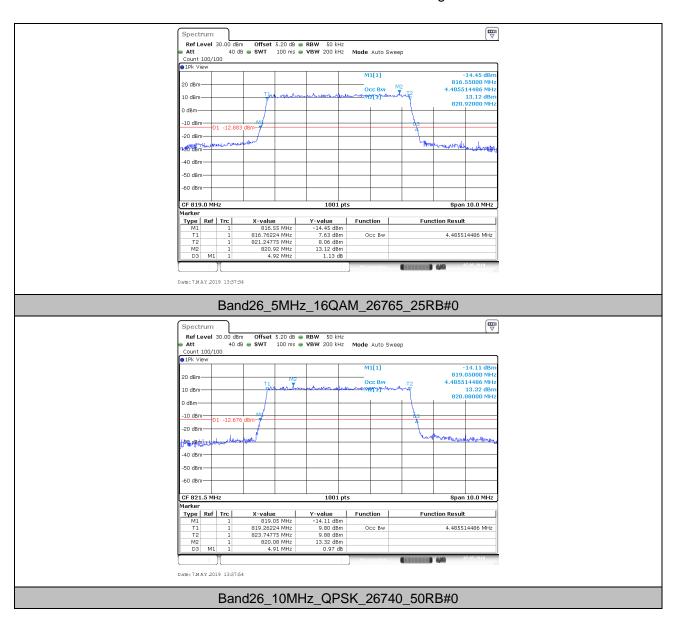






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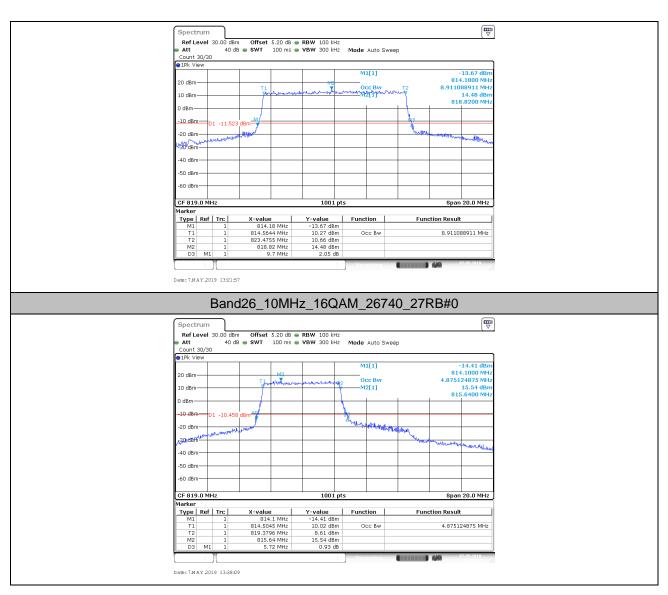
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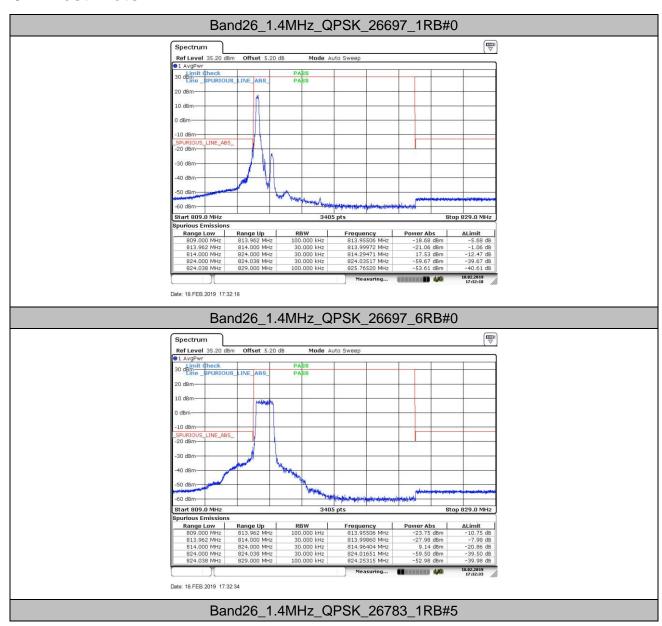




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5. Band Edge Compliance

5.1. Test Plots





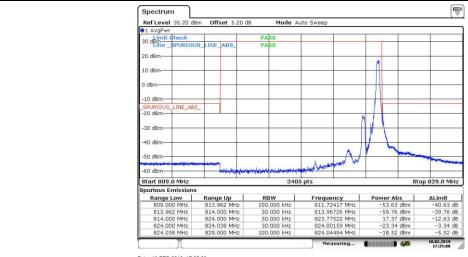
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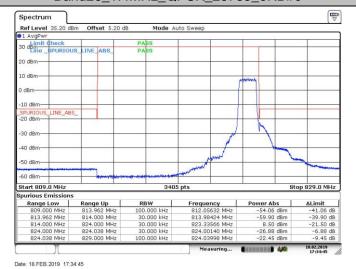
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Date: 18.FEB.2019 17:35:09

Band26_1.4MHz_QPSK_26783_6RB#0



Band26 1.4MHz 16QAM 26697 1RB#0



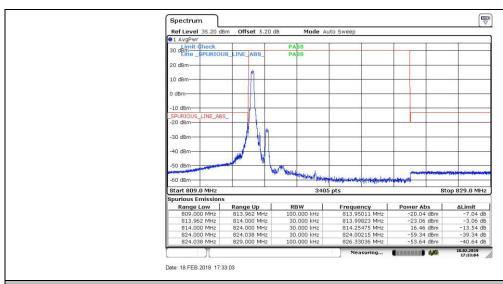
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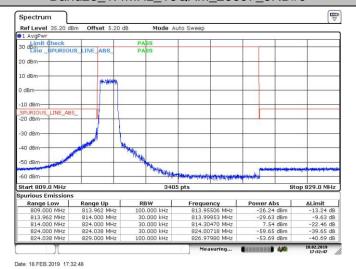
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Band26_1.4MHz_16QAM_26697_6RB#0



Band26 1.4MHz 16QAM 26783 1RB#5



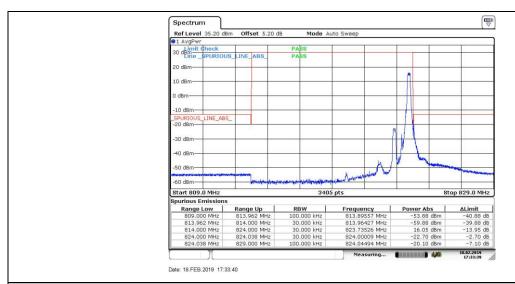
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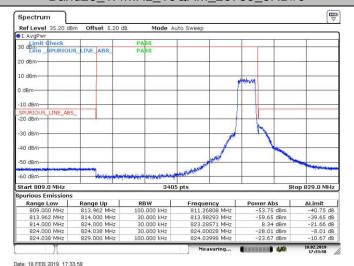
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Band26_1.4MHz_16QAM_26783_6RB#0



Band26 3MHz QPSK 26705 1RB#0



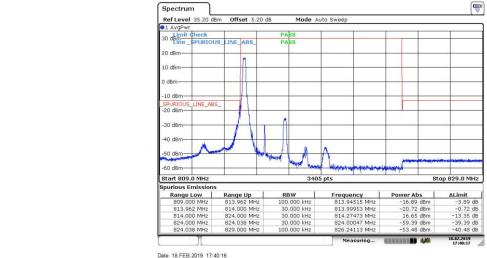
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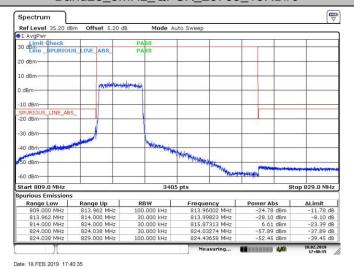
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Band26_3MHz_QPSK_26705_15RB#0



Band26 3MHz QPSK 26775 1RB#14



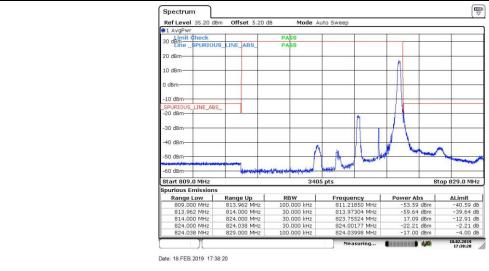
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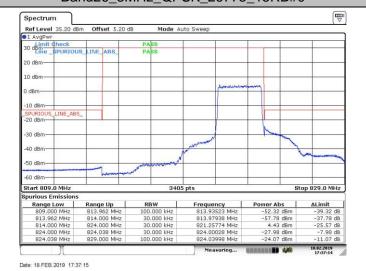
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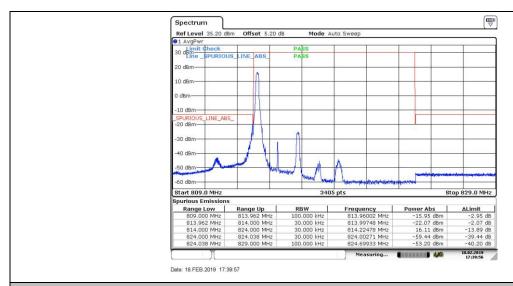
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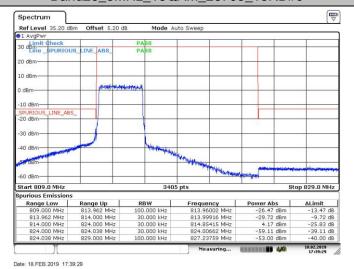
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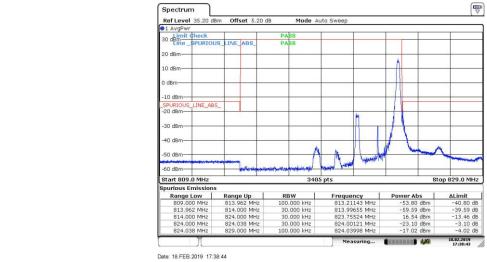
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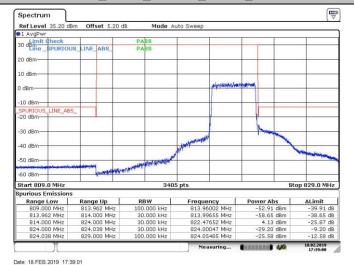
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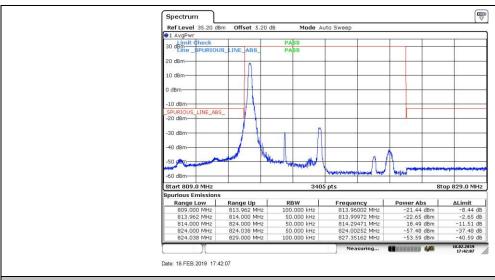


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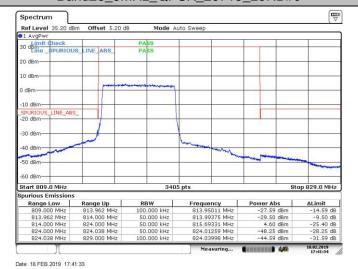


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Band26 5MHz QPSK 26765 1RB#24



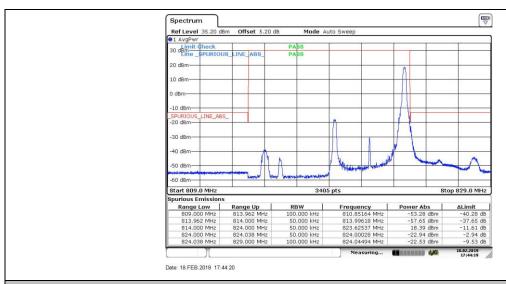
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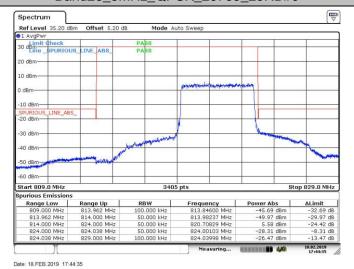
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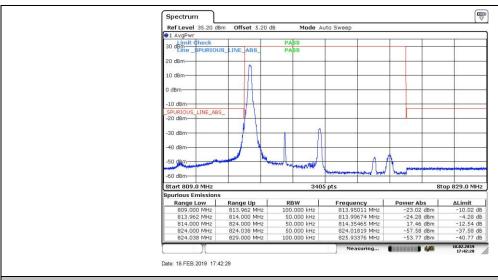
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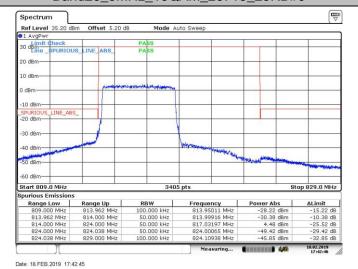
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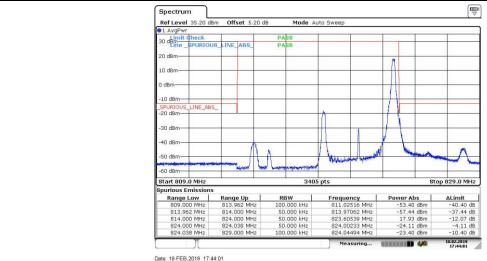
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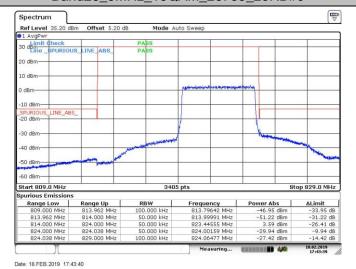
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Band26_10MHz_QPSK_26740_Left_1RB#0



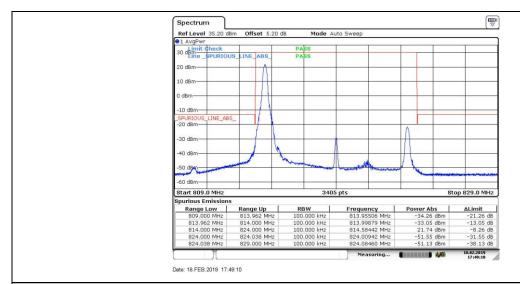
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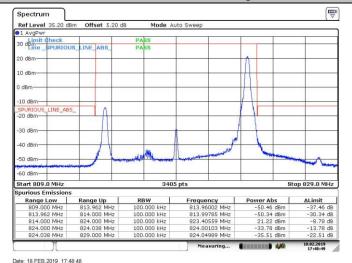
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Band26_10MHz_QPSK_26740_Right_1RB#49



Band26_10MHz_QPSK_26740_Right_50RB#0



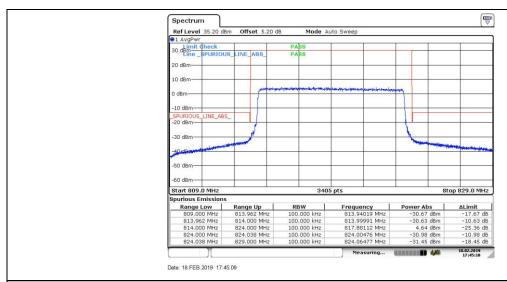
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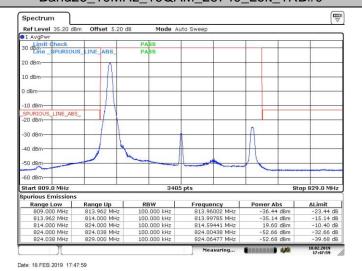
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Band26_10MHz_16QAM_26740_Left_1RB#0



Band26_10MHz_16QAM_26740_Left_27RB#0



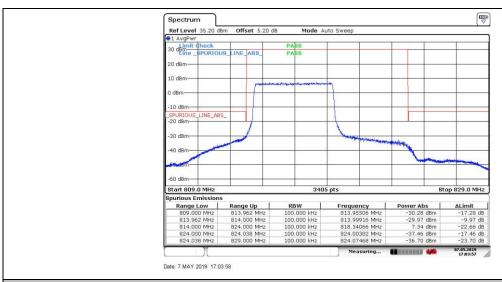
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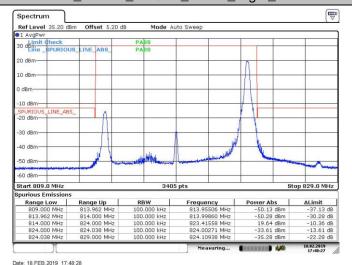
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Band26_10MHz_16QAM_26740_Right_1RB#49



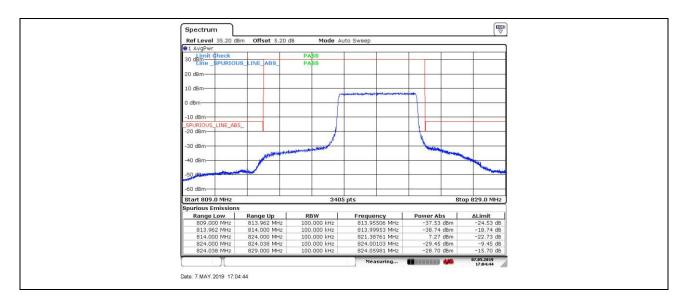
Band26_10MHz_16QAM_26740_Right_27RB#23





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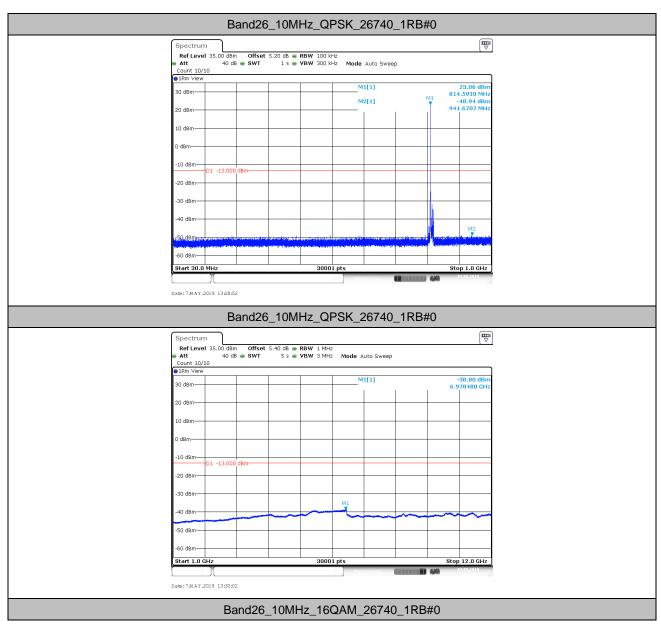
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6. Spurious Emission at Antenna Terminal

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 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

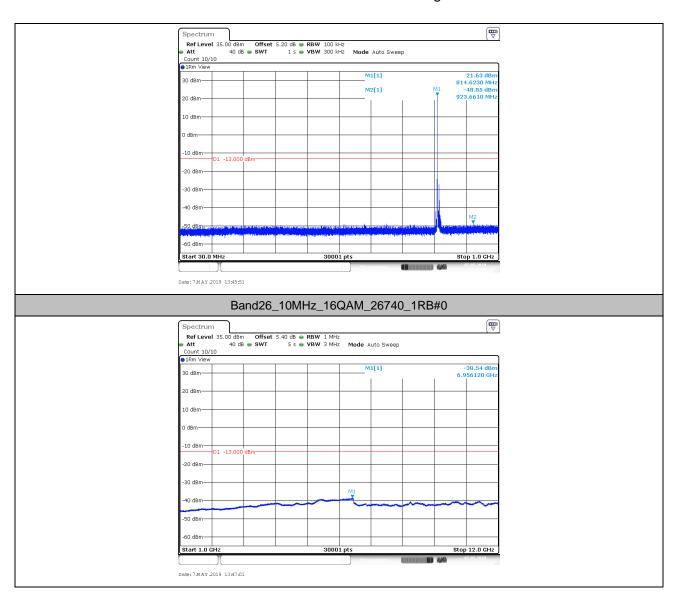






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7. Field Strength of Spurious Radiation

7.1. Test BAND = LTE Band 26

7.1.1.Test Mode =LTE/TM1 10MHz

7.1.1.1. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
51.681	-66.79	-13	53.79	Vertical
107.94	-64.46	-13	51.46	Vertical
505.9662	-62.11	-13	49.11	Vertical
1628.3829	-48.88	-13	35.88	Vertical
3261.6416	-44.45	-13	31.45	Vertical
8945.9532	-31.23	-13	18.23	Vertical
45.2117	-64.53	-13	51.53	Horizontal
235.9684	-62.96	-13	49.96	Horizontal
590.1904	-66.72	-13	53.72	Horizontal
1626.4919	-35.90	-13	22.90	Horizontal
2443.4219	-46.35	-13	33.35	Horizontal
7939.6007	-36.37	-13	23.37	Horizontal

Remark:

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.

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	Dandwidth	Danish didle Madelation	Madulatian Ohannal	Channel	RB	Voltage	Temperature	Deviation	Deviation	Limit	Verdict			
DAIND	Bandwidth	Modulation	Channel	Configure	[Vdc]	(°C)	(Hz)	(ppm)	(ppm)	verdict				
Band26	10MHz	QPSK	26740	50RB#0	VL	NT	-3.10	-0.003785	±2.5	PASS				
Band26	10MHz	QPSK	26740	50RB#0	VN	NT	-6.10	-0.007448	±2.5	PASS				
Band26	10MHz	QPSK	26740	50RB#0	VH	NT	1.40	0.001709	±2.5	PASS				
Band26	10MHz	16QAM	26740	27RB#0	VL	NT	-3.00	-0.003663	±2.5	PASS				
Band26	10MHz	16QAM	26740	27RB#0	VN	NT	-4.70	-0.005739	±2.5	PASS				
Band26	10MHz	16QAM	26740	27RB#0	VH	NT	-5.70	-0.006960	±2.5	PASS				

8.2. Frequency Vs Temperature

Temperatur	re									
DANID	D 1 : 10	NA LLC		RB	Voltage	Temperature	Deviation	Deviation	Limit	V . P .
BAND	Bandwidth	Modulation	Channel	Configure	[Vdc]	(°C)	(Hz)	(ppm)	(ppm)	Verdict
Band26	10MHz	QPSK	26740	50RB#0	NV	-30	-3.30	-0.004029	±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	0	-1.70	-0.002076	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	10	-3.40	-0.004151	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	20	-1.20	-0.001465	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	30	-4.00	-0.004884	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	40	-3.50	-0.004274	±2.5	PASS
Band26	10MHz	QPSK	26740	50RB#0	NV	50	-6.40	-0.007814	±2.5	PASS
Band26	10MHz	16QAM	26740	27RB#0	NV	-30	-3.30	-0.004029	±2.5	PASS
Band26	10MHz	16QAM	26740	27RB#0	NV	-20	-1.80	-0.002198	±2.5	PASS
Band26	10MHz	16QAM	26740	27RB#0	NV	0	-1.00	-0.001221	±2.5	PASS
Band26	10MHz	16QAM	26740	27RB#0	NV	10	-0.10	-0.000122	±2.5	PASS
Band26	10MHz	16QAM	26740	27RB#0	NV	20	-5.50	-0.006716	±2.5	PASS
Band26	10MHz	16QAM	26740	27RB#0	NV	30	-3.50	-0.004274	±2.5	PASS
Band26	10MHz	16QAM	26740	27RB#0	NV	40	-1.10	-0.001343	±2.5	PASS
Band26	10MHz	16QAM	26740	27RB#0	NV	50	-5.90	-0.007204	±2.5	PASS

The End

