

LTE Band 5/5 MHz _Middle Channel

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No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	523.8763	-89.09	35.37	-53.72	-13.00	-40.72	Peak
2	633.3285	-88.58	37.34	-51.24	-13.00	-38.24	Peak
3	760.2867	-88.27	39.20	-49.07	-13.00	-36.07	Peak

Vertica	Vertical								
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark		
1	418.3784	-88.64	33.52	-55.12	-13.00	-42.12	Peak		
2	624.4897	-88.23	37.29	-50.94	-13.00	-37.94	Peak		
3	684.2259	-87.73	38.05	-49.68	-13.00	-36.68	Peak		

LTE Band 5/5 MHz _Highest Channel

No.	Frequency	Reading	Correction	Result	Limit (dBm)	Margin (dB)	Remark
	(MHz)	(dBm)	(dB)	(dBm)	(a)		rtoa.rk
1	523.8763	-88.65	35.37	-53.28	-13.00	-40.28	Peak
2	674.6768	-88.21	37.88	-50.33	-13.00	-37.33	Peak
3	798.6205	-87.09	39.57	-47.52	-13.00	-34.52	Peak

Vertica							
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	341.2442	-88.96	32.06	-56.90	-13.00	-43.90	Peak
2	734.0373	-88.50	38.49	-50.01	-13.00	-37.01	Peak
3	787.4749	-87.28	39.37	-47.91	-13.00	-34.91	Peak



LTE Band 5/ 10 MHz _Lowest Channel

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No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	95.6485	-86.16	27.25	-58.91	-13.00	-45.91	Peak
2	406.7820	-89.34	33.35	-55.99	-13.00	-42.99	Peak
3	655.9766	-88.92	37.50	-51.42	-13.00	-38.42	Peak

Vertica	Vertical								
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark		
1	95.6485	-86.88	27.25	-59.63	-13.00	-46.63	Peak		
2	527.5707	-89.02	35.44	-53.58	-13.00	-40.58	Peak		
3	703.7314	-88.72	38.30	-50.42	-13.00	-37.42	Peak		

LTE Band 5/ 10 MHz _Middle Channel

ı	No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
	1	32.1840	-88.36	34.21	-54.15	-13.00	-41.15	Peak
	2	97.0023	-86.53	27.31	-59.22	-13.00	-46.22	Peak
	3	633.3285	-87.17	37.34	-49.83	-13.00	-36.83	Peak

Vertica	n l						
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	142.7692	-89.30	27.62	-61.68	-13.00	-48.68	Peak
2	175.0405	-88.77	28.28	-60.49	-13.00	-47.49	Peak
3	660.6025	-88.65	37.63	-51.02	-13.00	-38.02	Peak



LTE Band 5/ 10 MHz _Highest Channel

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No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	427.2920	-83.51	27.84	-55.67	-13.00	-42.67	Peak
2	679.4346	-88.93	38.03	-50.90	-13.00	-37.90	Peak
3	804.2523	-87.82	39.47	-48.35	-13.00	-35.35	Peak

Vertica	Vertical										
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark				
1	392.7376	-89.64	32.91	-56.73	-13.00	-43.73	Peak				
2	520.2079	-88.80	35.30	-53.50	-13.00	-40.50	Peak				
3	703.7314	-88.09	38.30	-49.79	-13.00	-36.79	Peak				

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LTE Band 7/5 MHz _Lowest Channel

Horizontal

No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	55.6782	-72.73	-3.19	-75.92	-25.00	-50.92	Peak
2	68.2636	-74.47	-3.05	-77.52	-25.00	-52.52	Peak
3	804.2623	-81.23	10.28	-70.95	-25.00	-45.95	Peak

Vertica	Vertical										
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark				
1	31.5126	-80.61	5.86	-74.75	-25.00	-49.75	Peak				
2	41.4483	-79.00	0.12	-78.88	-25.00	-53.88	Peak				
3	793.0281	-81.65	10.26	-71.39	-25.00	-46.39	Peak				

LTE Band 7/5 MHz _Middle Channel

Horizontal

No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	50.1080	-74.11	-2.55	-76.66	-25.00	-51.66	Peak
2	69.2297	-73.94	-2.95	-76.89	-25.00	-51.89	Peak
3	590.3511	-80.26	7.13	-73.13	-25.00	-48.13	Peak

Vertica	ıl						
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	30.6392	-80.16	6.47	-73.69	-25.00	-48.69	Peak
2	54.1349	-74.84	-2.97	-77.81	-25.00	-52.81	Peak
3	674.6768	-80.14	8.64	-71.50	-25.00	-46.50	Peak

LTE Band 7/5 MHz _Highest Channel

No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	53.7559	-73.57	-2.89	-76.46	-25.00	-51.46	Peak
2	68.2636	-74.06	-3.05	-77.11	-25.00	-52.11	Peak
3	893.6557	-82.02	11.50	-70.52	-25.00	-45.52	Peak

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Vertica	Vertical										
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark				
1	562.0143	-80.21	6.33	-73.88	-25.00	-48.88	Peak				
2	708.6941	-81.45	8.98	-72.47	-25.00	-47.47	Peak				
3	925.6132	-82.07	12.25	-69.82	-25.00	-44.82	Peak				

LTE Band 7/ 10 MHz _Lowest Channel Horizontal

No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	50.4614	-73.59	-2.54	-76.13	-25.00	-51.13	Peak
2	54.1349	-72.52	-2.97	-75.49	-25.00	-50.49	Peak
3	919.1315	-82.03	12.28	-69.75	-25.00	-44.75	Peak

Vertica	1						
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	33.3349	-80.97	4.33	-76.64	-25.00	-51.64	Peak
2	53.7559	-77.49	-2.89	-80.38	-25.00	-55.38	Peak
3	906.3041	-82.72	11.92	-70.80	-25.00	-45.80	Peak

LTE Band 7/ 10 MHz _	Middle Channel
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Horizontal

No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	31.5126	-80.53	5.86	-74.67	-25.00	-49.67	Peak
2	53.3794	-72.93	-2.79	-75.72	-25.00	-50.72	Peak
3	912.6953	-81.76	12.07	-69.69	-25.00	-44.69	Peak

Vertical									
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark		
1	31.7348	-80.42	5.72	-74.70	-25.00	-49.70	Peak		
2	52.6345	-76.02	-2.62	-78.64	-25.00	-53.64	Peak		
3	938.7139	-81.97	12.34	-69.63	-25.00	-44.63	Peak		



LTE Band 7/ 10 MHz _Highest Channel

Horizontal

No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	54.1349	-71.59	-2.97	-74.56	-25.00	-49.56	Peak
2	744.4265	-80.85	9.41	-71.44	-25.00	-46.44	Peak
3	972.2827	-82.00	12.44	-69.56	-25.00	-44.56	Peak

Vertica	Vertical										
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark				
1	191.7841	-79.41	-0.06	-79.47	-25.00	-54.47	Peak				
2	651.3831	-81.91	8.10	-73.81	-25.00	-48.81	Peak				
3	804.2523	-81.40	10.28	-71.12	-25.00	-46.12	Peak				

LTE Band 7/15 MHz Lowest Channel

No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	56.0708	-72.83	-3.24	-76.07	-25.00	-51.07	Peak
2	69.7180	-74.09	-2.90	-76.99	-25.00	-51.99	Peak
3	952.0001	-82.40	12.15	-70.25	-25.00	-45.25	Peak

Vertical									
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark		
1	582.1122	-81.26	6.95	-74.31	-25.00	-49.31	Peak		
2	-679.4346	-81.30	8.79	-72.51	-25.00	-47.51	Peak		
3	-938.7139	-82.89	12.34	-70.55	-25.00	-45.55	Peak		



LTE Band 7/15 MHz _Middle Channel

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No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	54.1349	-73.48	-2.97	-76.45	-25.00	-51.45	Peak
2	442.5722	-80.72	5.09	-75.63	-25.00	-50.63	Peak
3	932.1405	-82.45	12.25	-70.20	-25.00	-45.20	Peak

Vertica	Vertical										
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark				
1	436.3956	-80.83	5.12	-75.71	-25.00	-50.71	Peak				
2	798.6205	-80.50	10.37	-70.13	-25.00	-45.13	Peak				
3	992.9974	-81.30	12.87	-68.43	-25.00	-43.43	Peak				

LTE Band 7/15 MHz _Highest Channel

No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	56.0708	-72.41	-3.24	-75.65	-25.00	-50.65	Peak
2	439.4731	-80.62	5.13	-75.49	-25.00	-50.49	Peak
3	945.3336	-82.32	12.19	-70.13	-25.00	-45.13	Peak

Vertica	ı						
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	401.1050	-80.36	4.69	-75.67	-25.00	-50.67	Peak
2	611.4623	-81.00	7.87	-73.13	-25.00	-48.13	Peak
3	912.6953	-81.92	12.07	-69.85	-25.00	-44.85	Peak



LTE Band 7/ 20 MHz _Lowest Channel

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No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	53.7559	-72.86	-2.89	-75.75	-25.00	-50.75	Peak
2	495.2379	-80.64	5.75	-74.89	-25.00	-49.89	Peak
3	765.6482	-80.99	9.99	-71.00	-25.00	-46.00	Peak

Vertica	Vertical										
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark				
1	542.6104	-81.06	6.25	-74.81	-25.00	-49.81	Peak				
2	776.4849	-81.96	10.05	-71.91	-25.00	-46.91	Peak				
3	938.7139	-81.64	12.34	-69.30	-25.00	-44.30	Peak				

LTE Band 7/20 MHz Middle Channel

No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	54.1349	-72.18	-2.97	-75.15	-25.00	-50.15	Peak
2	760.2867	-81.45	9.99	-71.46	-25.00	-46.46	Peak
3	919.1315	-82.34	12.28	-70.06	-25.00	-45.06	Peak

Vertical							
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	53.3794	-75.48	-2.79	-78.27	-25.00	-53.27	Peak
2	620.1167	-81.10	7.98	-73.12	-25.00	-48.12	Peak
3	925.6132	-82.35	12.25	-70.10	-25.00	-45.10	Peak



LTE Band 7/ 20 MHz _Highest Channel

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No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	54.1349	-73.59	-2.97	-76.56	-25.00	-51.56	Peak
2	578.0359	-80.26	6.83	-73.43	-25.00	-48.43	Peak
3	844.8028	-81.24	10.69	-70.55	-25.00	-45.55	Peak

Vertica	Vertical										
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark				
1	355.9397	-80.84	3.90	-76.94	-25.00	-51.94	Peak				
2	655.9766	-80.66	8.25	-72.41	-25.00	-47.41	Peak				
3	932.1405	-82.43	12.25	-70.18	-25.00	-45.18	Peak				



LTE Band 12/ 1.4 MHz _Lowest Channel

Horizontal

No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	282.2702	-87.56	30.69	-56.87	-13.00	-43.87	Peak
2	542.6104	-88.43	35.54	-52.89	-13.00	-39.89	Peak
3	642.2924	-88.09	37.29	-50.80	-13.00	-37.80	Peak

Vertical							
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	401.1050	-89.49	33.35	-56.14	-13.00	-43.14	Peak
2	523.8763	-88.84	35.37	-53.47	-13.00	-40.47	Peak
3	620.1167	-89.14	37.24	-51.90	-13.00	-38.90	Peak

LTE Band 12/ 1.4 MHz _Middle Channel

Horizontal

No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	379.1780	-88.14	32.79	-55.35	-13.00	-42.35	Peak
2	531.2910	-88.82	35.49	-53.33	-13.00	-40.33	Peak
3	615.7744	-87.88	37.19	-50.69	-13.00	-37.69	Peak

Vertical								
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	
1	424.2999	-89.66	33.72	-55.94	-13.00	-42.94	Peak	
2	505.7891	-88.68	35.04	-53.64	-13.00	-40.64	Peak	
3	598.7067	-88.97	36.83	-52.14	-13.00	-39.14	Peak	

LTE Band 12/ 1.4 MHz _Highest Channel

No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	300.6988	-87.95	30.70	-57.25	-13.00	-44.25	Peak
2	395.5071	-88.55	33.08	-55.47	-13.00	-42.47	Peak
3	586.2172	-87.51	36.30	-51.21	-13.00	-38.21	Peak

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Vertica	Vertical										
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark				
1	406.7820	-89.11	33.35	-55.76	-13.00	-42.76	Peak				
2	502.2473	-88.76	35.15	-53.61	-13.00	-40.61	Peak				
3	550.2902	-88.23	35.46	-52.77	-13.00	-39.77	Peak				

LTE Band 12/3 MHz Lowest Channel Horizontal Correction Frequency Reading Result No. factor Limit (dBm) Margin (dB) Remark (MHz) (dBm) (dBm) (dB) 346.0740 32.20 -55.89 -13.00 -42.89 1 -88.09 Peak 2 418.3784 -87.95 33.52 -54.43 -13.00 -41.43 Peak 3 624,4897 -88.80 37.29 -51.51 -13.00 -38.51 Peak

Vertica	ĺ							
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	
1	471.4665	-88.28	34.41	-53.87	-13.00	-40.87	Peak	
2	498.7303	-88.57	35.17	-53.40	-13.00	-40.40	Peak	
3	646.8217	-87.51	37.30	-50.21	-13.00	-37.21	Peak	



LTE Band 12/3 MHz _Middle Channel

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No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	338.8546	-90.12	31.94	-58.18	-13.00	-45.18	Peak
2	418.3784	-89.52	33.52	-56.00	-13.00	-43.00	Peak
3	527.5707	-88.68	35.44	-53.24	-13.00	-40.24	Peak

Vertical									
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark		
1	421.3287	-88.64	33.60	-55.04	-13.00	-42.04	Peak		
2	542.6104	-88.28	35.54	-52.74	-13.00	-39.74	Peak		
3	633.3285	-88.82	37.34	-51.48	-13.00	-38.48	Peak		

LTE Band 12/3 MHz _Highest Channel

No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	439.4731	-89.36	34.04	-55.32	-13.00	-42.32	Peak
2	598.7067	-87.54	36.83	-50.71	-13.00	-37.71	Peak
3	660.6025	-87.43	37.63	-49.80	-13.00	-36.80	Peak

Vertica							
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	379.1780	-90.13	32.79	-57.34	-13.00	-44.34	Peak
2	461.6313	-88.83	34.29	-54.54	-13.00	-41.54	Peak
3	624.4897	-88.32	37.29	-51.03	-13.00	-38.03	Peak

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LTE Band 12/5 MHz _Lowest Channel

Horizontal

No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	91.6996	-88.79	26.94	-61.85	-13.00	-48.85	Peak
2	235.1346	-88.42	29.18	-59.24	-13.00	-46.24	Peak
3	538.8107	-88.87	35.56	-53.31	-13.00	-40.31	Peak

Vertical								
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	
1	430.3053	-89.08	33.95	-55.13	-13.00	-42.13	Peak	
2	505.7891	-88.75	35.04	-53.71	-13.00	-40.71	Peak	
3	628.8936	-88.98	37.35	-51.63	-13.00	-38.63	Peak	

LTE Band 12/5 MHz _Middle Channel

	No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
	1	430.3053	-88.89	33.95	-54.94	-13.00	-41.94	Peak
	2	516.5651	-87.51	35.16	-52.35	-13.00	-39.35	Peak
I	3	674.6768	-87.12	37.88	-49.24	-13.00	-36.24	Peak

Vertica	al						
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	442.5722	-89.25	34.02	-55.23	-13.00	-42.23	Peak
2	598.7067	-88.90	36.83	-52.07	-13.00	-39.07	Peak
3	655.9766	-87.09	37.50	-49.59	-13.00	-36.59	Peak

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LTE Band 12/5 MHz _Highest Channel

Horizontal

No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	481.5112	-89.19	34.62	-54.57	-13.00	-41.57	Peak
2	527.5707	-89.15	35.44	-53.71	-13.00	-40.71	Peak
3	611.4623	-88.28	37.13	-51.15	-13.00	-38.15	Peak

Vertica	ı								
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark		
1	406.7820	-88.84	33.35	-55.49	-13.00	-42.49	Peak		
2	461.6313	-89.15	34.29	-54.86	-13.00	-41.86	Peak		
3	535.0377	-88.79	35.53	-53.26	-13.00	-40.26	Peak		

LTE Band 12/ 10 MHz _Lowest Channel

No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	259.4434	-88.83	29.96	-58.87	-13.00	-45.87	Peak
2	294.4260	-89.57	30.89	-58.68	-13.00	-45.68	Peak
3	669.9523	-87.52	37.73	-49.79	-13.00	-36.79	Peak

Vertica	ıl						
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	33.5700	-90.22	32.97	-57.25	-13.00	-44.25	Peak
2	110.0818	-88.81	27.44	-61.37	-13.00	-48.37	Peak
3	554.1708	-88.44	35.50	-52.94	-13.00	-39.94	Peak



LTE Band 12/ 10 MHz _Middle Channel

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No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	445.6931	-89.17	33.99	-55.18	-13.00	-42.18	Peak
2	512.9478	-89.26	35.02	-54.24	-13.00	-41.24	Peak
3	655.9766	-88.49	37.50	-50.99	-13.00	-37.99	Peak

Vertica	Vertical										
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark				
1	436.3956	-89.19	34.01	-55.18	-13.00	-42.18	Peak				
2	509.3559	-88.74	34.93	-53.81	-13.00	-40.81	Peak				
3	660.6025	-88.27	37.63	-50.64	-13.00	-37.64	Peak				

LTE Band 12/ 10 MHz _Highest Channel

No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	430.3053	-88.27	33.95	-54.32	-13.00	-41.32	Peak
2	598.7067	-88.10	36.83	-51.27	-13.00	-38.27	Peak
3	679.4346	-88.36	38.03	-50.33	-13.00	-37.33	Peak

Vertica	ı							
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	
1	329.4625	-88.07	31.29	-56.78	-13.00	-43.78	Peak	
2	424.2999	-87.49	33.72	-53.77	-13.00	-40.77	Peak	
3	602.9288	-88.53	36.96	-51.57	-13.00	-38.57	Peak	



LTE Band 13/5 MHz _Lowest Channel

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No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	542.610	-88.29	35.54	-52.75	-13.00	-39.75	Peak
2	598.707	-88.77	36.83	-51.94	-13.00	-38.94	Peak
3	693.910	-88.59	38.18	-50.41	-13.00	-37.41	Peak

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Vertica	Vertical										
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark				
1	531.291	-88.02	35.49	-52.53	-13.00	-39.53	Peak				
2	624.490	-88.28	37.29	-50.99	-13.00	-37.99	Peak				
3	703.731	-88.08	38.30	-49.78	-13.00	-36.78	Peak				

LTE Band 13/5 MHz _Middle Channel

No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	455.189	-88.06	34.12	-53.94	-13.00	-40.94	Peak
2	535.038	-88.39	35.53	-52.86	-13.00	-39.86	Peak
3	708.694	-87.44	38.21	-49.23	-13.00	-36.23	Peak

Vertical									
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark		
1	371.268	-87.85	32.31	-55.54	-13.00	-42.54	Peak		
2	531.291	-89.18	35.49	-53.69	-13.00	-40.69	Peak		
3	674.677	-88.24	37.88	-50.36	-13.00	-37.36	Peak		

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LTE Band 13/5 MHz _Highest Channel

Horizontal

No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	409.651	-87.84	33.35	-54.49	-13.00	-41.49	Peak
2	660.602	-87.31	37.63	-49.68	-13.00	-36.68	Peak
3	698.804	-87.38	38.33	-49.05	-13.00	-36.05	Peak

Vertica	Vertical									
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark			
1	427.292	-87.26	33.84	-53.42	-13.00	-40.42	Peak			
2	598.707	-87.79	36.83	-50.96	-13.00	-37.96	Peak			
3	708.694	-88.22	38.21	-50.01	-13.00	-37.01	Peak			

LTE Band 13/ 10 MHz _Middle Channel

No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	280.294	-89.13	30.69	-58.44	-13.00	-45.44	Peak
2	430.305	-86.96	33.95	-53.01	-13.00	-40.01	Peak
3	693.910	-88.02	38.18	-49.84	-13.00	-36.84	Peak

Vertica	al						
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	286.265	-88.90	30.72	-58.18	-13.00	-45.18	Peak
2	424.300	-88.87	33.72	-55.15	-13.00	-42.15	Peak
3	674.677	-88.54	37.88	-50.66	-13.00	-37.66	Peak



LTE Band 17/5 MHz _Lowest Channel

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No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	
1	401.1050	-89.47	33.35	-56.12	-13.00	-43.12	Peak	
2	602.9288	-88.72	36.96	-51.76	-13.00	-38.76	Peak	
3	646.8217	-88.22	37.30	-50.92	-13.00	-37.92	Peak	

Vertica	Vertical								
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark		
1	442.5722	-89.14	34.02	-55.12	-13.00	-42.12	Peak		
2	531.2910	-89.02	35.49	-53.53	-13.00	-40.53	Peak		
3	660.6025	-88.77	37.63	-51.14	-13.00	-38.14	Peak		

LTE Band 17/ 5 MHz Middle Channel

	No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
	1	430.3053	-88.96	33.95	-55.01	-13.00	-42.01	Peak
	2	474.7913	-88.09	34.48	-53.61	-13.00	-40.61	Peak
ĺ	3	646.8217	-87.89	37.30	-50.59	-13.00	-37.59	Peak

Vertica							
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	464.8867	-89.26	34.32	-54.94	-13.00	-41.94	Peak
2	538.8107	-89.06	35.56	-53.50	-13.00	-40.50	Peak
3	660.6025	-87.31	37.63	-49.68	-13.00	-36.68	Peak

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LTE Band 17/5 MHz _Highest Channel

Horizontal

No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	424.2999	-88.87	33.72	-55.15	-13.00	-42.15	Peak
2	607.1805	-88.99	37.05	-51.94	-13.00	-38.94	Peak
3	674.6768	-88.54	37.88	-50.66	-13.00	-37.66	Peak

Vertica	Vertical									
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark			
1	307.1053	-88.49	30.70	-57.79	-13.00	-44.79	Peak			
2	436.3956	-88.94	34.01	-54.93	-13.00	-41.93	Peak			
3	674.6768	-88.88	37.88	-51.00	-13.00	-38.00	Peak			

LTE Band 17/ 10 MHz _Lowest Channel

No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	455.1888	-88.06	34.12	-53.94	-13.00	-40.94	Peak
2	535.0377	-88.39	35.53	-52.86	-13.00	-39.86	Peak
3	660.6025	-88.56	37.63	-50.93	-13.00	-37.93	Peak

Vertica	n l						
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	427.2920	-89.37	33.84	-55.53	-13.00	-42.53	Peak
2	542.6104	-88.29	35.54	-52.75	-13.00	-39.75	Peak
3	665.2610	-88.46	37.68	-50.78	-13.00	-37.78	Peak



LTE Band 17/ 10 MHz _Middle Channel

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No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	445.6931	-89.26	33.99	-55.27	-13.00	-42.27	Peak
2	531.2910	-89.18	35.49	-53.69	-13.00	-40.69	Peak
3	674.6768	-88.24	37.88	-50.36	-13.00	-37.36	Peak

Vertica	Vertical										
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark				
1	427.2920	-88.26	33.84	-54.42	-13.00	-41.42	Peak				
2	520.2079	-88.45	35.30	-53.15	-13.00	-40.15	Peak				
3	598.7067	-88.79	36.83	-51.96	-13.00	-38.96	Peak				

LTE Band 17/ 10 MHz _Highest Channel

	No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
	1	292.3643	-88.31	30.85	-57.46	-13.00	-44.46	Peak
	2	412.5395	-88.51	33.40	-55.11	-13.00	-42.11	Peak
	3	624.4897	-89.18	37.29	-51.89	-13.00	-38.89	Peak

Vertica								
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	
1	427.2920	-89.49	33.84	-55.65	-13.00	-42.65	Peak	
2	523.8763	-88.90	35.37	-53.53	-13.00	-40.53	Peak	
3	665.2610	-88.51	37.68	-50.83	-13.00	-37.83	Peak	

5.8.2 Radiated Emission Test Data (Above 1GHz)

GSM 8	GSM 850 1Tx-slot_Lowest Channel											
Horizo	Horizontal											
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Margin (dB)) Remark						
1	6569.9530	-54.26	19.01	-35.25	-13.00	-22.25	Peak					
2	9034.8090	-45.26	19.97	-25.29	-13.00	-12.29	Peak					

Vertica	Vertical										
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Remark						
1	5750.4790	-58.85	17.29	-41.56	-13.00	-28.56	Peak				
2	9034.8090	-53.46	19.13	-34.33	-13.00	-21.33	Peak				

GSM 850 1Tx-slot_Middle Channel										
Horizontal										
	No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark		
Ī	1	7506.2070	-56.94	19.08	-37.86	-13.00	-24.86	Peak		
	2	9193.1780	-50.16	20.67	-29.49	-13.00	-16.49	Peak		

Vertical									
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark		
1	6685.1170	-61.64	18.82	-42.82	-13.00	-29.82	Peak		
2	9193.1780	-56.15	19.63	-36.52	-13.00	-23.52	Peak		



GSM 850 1Tx-slot_Highest Channel

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	No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
	1	9300.2970	-59.38	21.14	-38.24	-13.00	-25.24	Peak
	2	11861.8100	-61.25	21.86	-39.39	-13.00	-26.39	Peak

Vertica	Vertical							
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	
1	4230.3710	-64.16	16.09	-48.07	-13.00	-35.07	Peak	
2	11861.8100	-63.72	20.93	-42.79	-13.00	-29.79	Peak	

GSM 1900 1Tx-slot_Lowest Channel

No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3681.3290	-48.87	13.74	-35.13	-13.00	-22.13	Peak
2	9246.5820	-49.44	20.90	-28.54	-13.00	-15.54	Peak

Vertica	al						
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	7376.8980	-55.50	18.33	-37.17	-13.00	-24.17	Peak
2	9246.5820	-57.37	19.81	-37.56	-13.00	-24.56	Peak



GSM 1900 1Tx-slot_Middle Channel Horizontal Correction Frequency Reading Result No. factor Limit (dBm) Margin (dB) Remark (MHz) (dBm) (dBm) (dB) 1 7506.2070 -55.22 19.08 -36.14 -13.00 -23.14 Peak 2 -25.05 9408.6640 -59.24 21.19 -38.05 -13.00 Peak

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Vertica	ı							
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	
1	3745.8580	-55.13	15.25	-39.88	-13.00	-26.88	Peak	
2	7506.2070	-56.83	18.48	-38.35	-13.00	-25.35	Peak	

GSM 1	900 1Tx-slot_l	Highest Chani	nel				
Horizo	ntal						
No. Frequency (MHz)		Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	9518.2940	-54.68	21.24	-33.44	-13.00	-20.44	Peak
2	13396.0900	-57.75	24.61	-33.14	-13.00	-20.14	Peak

Vertica	al						
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	7637.7820	-58.97	18.48	-40.49	-13.00	-27.49	Peak
2	13396.0900	-61.45	23.33	-38.12	-13.00	-25.12	Peak



WCDMA Band II RMC 12.2Kbps_Lowest Channel Horizontal Correction Frequency Reading Result Remark No. factor Limit (dBm) Margin (dB) (MHz) (dBm) (dBm) (dB) -28.72 1 3702.7140 -42.49 -13.00 -15.72 13.77 Peak 2 7419.7510 -47.22 18.94 -28.28 -13.00 -15.28 Peak

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Vertica	ıl						
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	7419.7510	-50.66	18.38	-32.28	-13.00	-19.28	Peak
2	9246.5820	-57.82	19.81	-38.01	-13.00	-25.01	Peak

	WCDM	A Band II RM	C 12.2Kbps_M	iddle Channel					
Horizontal									
	No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	
	1	7506.2070	-49.60	19.08	-30.52	-13.00	-17.52	Peak	
	2	9408.6640	-56.18	21.19	-34.99	-13.00	-21.99	Peak	

Vertica	ıl						
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	7506.2070	-51.23	18.48	-32.75	-13.00	-19.75	Peak
2	9408.6640	-61.66	19.90	-41.76	-13.00	-28.76	Peak

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WCDMA Band II RMC 12.2Kbps_Highest Channel

Horizontal

No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	7593.6690	-53.08	19.09	-33.99	-13.00	-20.99	Peak
2	9518.2940	-52.53	21.24	-31.29	-13.00	-18.29	Peak

Vertica	ıl							
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	
1	7593.6690	-53.78	18.47	-35.31	-13.00	-22.31	Peak	
2	9518.2940	-59.88	19.86	-40.02	-13.00	-27.02	Peak	

WCDMA Band IV RMC 12.2Kbps_Lowest Channel

No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	8575.8810	-51.74	19.67	-32.07	-13.00	-19.07	Peak
2	10262.7000	-53.01	22.65	-30.36	-13.00	-17.36	Peak

Vertica	al						
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	6841.8140	-53.59	18.36	-35.23	-13.00	-22.23	Peak
2	8575.8810	-54.40	18.96	-35.44	-13.00	-22.44	Peak



WCDMA Band IV RMC 12.2Kbps_Middle Channel

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No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	8625.6990	-55.53	19.75	-35.78	-13.00	-22.78	Peak
2	10382.2800	-59.05	22.94	-36.11	-13.00	-23.11	Peak

Vertica	Vertical										
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark				
1	6921.5350	-57.93	18.11	-39.82	-13.00	-26.82	Peak				
2	8625.6990	-58.76	19.03	-39.73	-13.00	-26.73	Peak				

WCDMA Band IV RMC 12.2Kbps_Highest Channel

No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	7002.1850	-55.44	19.86	-35.58	-13.00	-22.58	Peak
2	8726.2060	-62.81	23.21	-39.60	-13.00	-26.60	Peak

I	Vertica								
	No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	
	1	3494.3340	-53.98	14.17	-39.81	-13.00	-26.81	Peak	
	2	8726.2060	-56.89	19.12	-37.77	-13.00	-24.77	Peak	



WCDMA Band V RMC 12.2Kbps_Lowest Channel

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No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	2454.2250	-54.96	9.15	-45.81	-13.00	-32.81	Peak
2	4109.6100	-58.57	14.51	-44.06	-13.00	-31.06	Peak

Vertica	Vertical										
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark				
1	2454.2250	-53.93	11.51	-42.42	-13.00	-29.42	Peak				
2	4109.6100	-59.40	15.98	-43.42	-13.00	-30.42	Peak				

WCDMA Band V RMC 12.2Kbps_Middle Channel

No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	2454.2250	-52.61	9.15	-43.46	-13.00	-30.46	Peak
2	4181.6460	-56.81	14.66	-42.15	-13.00	-29.15	Peak

Vertical									
	No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	
Ī	1	2454.2250	-55.76	11.51	-44.25	-13.00	-31.25	Peak	
	2	4181.6460	-59.44	16.05	-43.39	-13.00	-30.39	Peak	



WCDMA Band V RMC 12.2Kbps_Highest Channel Horizontal Correction Frequency Reading Result No. factor Limit (dBm) Margin (dB) Remark (MHz) (dBm) (dBm) (dB) 1 2454.2250 -51.98 9.15 -42.83 -13.00 -29.83 Peak 2 4181.6460 -61.63 14.66 -46.97 -13.00 -33.97 Peak

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Vertica	Vertical										
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark				
1	2454.2250	-55.18	11.51	-43.67	-13.00	-30.67	Peak				
2	4181.6460	-58.04	16.05	-41.99	-13.00	-28.99	Peak				



LTE Band 2/ 1.4 MHz _Lowest Channel

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No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3681.3290	-45.21	13.74	-31.47	-13.00	-18.47	Peak
2	7376.8980	-49.83	18.85	-30.98	-13.00	-17.98	Peak

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Vert	ica	ı						
No	•	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1		7376.8980	-51.57	18.33	-33.24	-13.00	-20.24	Peak
2		9246.5820	-57.97	19.81	-38.16	-13.00	-25.16	Peak

LTE Band 2/ 1.4 MHz _Middle Channel

No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	7506.2070	-50.16	19.08	-31.08	-13.00	-18.08	Peak
2	9354.3240	-53.04	21.17	-31.87	-13.00	-18.87	Peak

Vertica	ıl						
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	7506.2070	-55.17	18.48	-36.69	-13.00	-23.69	Peak
2	9354.3240	-60.70	19.94	-40.76	-13.00	-27.76	Peak



LTE Band 2/ 1.4 MHz _Highest Channel

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No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3811.5190	-47.79	13.97	-33.82	-13.00	-20.82	Peak
2	9518.2940	-51.39	21.24	-30.15	-13.00	-17.15	Peak

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Vertica	Vertical									
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark			
1	7637.7820	-53.52	18.48	-35.04	-13.00	-22.04	Peak			
2	9518.2940	-59.64	19.86	-39.78	-13.00	-26.78	Peak			

LTE Band 2/3 MHz _Lowest Channel

No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3681.3290	-50.64	13.74	-36.90	-13.00	-23.90	Peak
2	7376.8980	-57.23	18.85	-38.38	-13.00	-25.38	Peak

Vertica	ıl						
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	7376.8980	-51.32	18.33	-32.99	-13.00	-19.99	Peak
2	9246.5820	-60.67	19.81	-40.86	-13.00	-27.86	Peak

19.08



7506.2070

-50.59

2

LTE Band 2/3 MHz _Middle Channel Horizontal Correction Frequency Reading Result No. factor Limit (dBm) Margin (dB) Remark (MHz) (dBm) (dBm) (dB) 5618.7760 -48.36 16.04 -32.32 -13.00 -19.32 Peak 1

-31.51

-13.00

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-18.51

Peak

Vertica	Vertical											
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark					
1	7506.2070	-54.63	18.48	-36.15	-13.00	-23.15	Peak					
2	9354.3240	-63.72	19.94	-43.78	-13.00	-30.78	Peak					

LTE Band 2/ 3 MHz _Highest Channel											
Horizontal											
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark				
1	5717.2660	-49.37	16.33	-33.04	-13.00	-20.04	Peak				
2	9518.2940	-51.72	21.24	-30.48	-13.00	-17.48	Peak				

Vertica	ıl						
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	5717.2660	-57.22	17.19	-40.03	-13.00	-27.03	Peak
2	7637.7820	-53.55	18.48	-35.07	-13.00	-22.07	Peak

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LTE Band 2/5 MHz _Lowest Channel

Horizontal

No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3681.3290	-49.99	13.74	-36.25	-13.00	-23.25	Peak
2	5521.9820	-53.46	16.05	-37.41	-13.00	-24.41	Peak

Vertica	ıl								
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark		
1	7376.8980	-57.64	18.33	-39.31	-13.00	-26.31	Peak		
2	9246.5820	-62.01	19.81	-42.20	-13.00	-29.20	Peak		

LTE Band 2/5 MHz _Middle Channel

1101120	· · · · ·						
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	5618.7760	-48.41	16.04	-32.37	-13.00	-19.37	Peak
2	7462.8540	-50.15	19.01	-31.14	-13.00	-18.14	Peak

Vertica	I						
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3724.2240	-57.95	15.18	-42.77	-13.00	-29.77	Peak
2	7462.8540	-52.75	18.43	-34.32	-13.00	-21.32	Peak

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LTE Band 2/5 MHz _Highest Channel

Horizontal

No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3811.5190	-46.81	13.97	-32.84	-13.00	-19.84	Peak
2	9518.2940	-52.24	21.24	-31.00	-13.00	-18.00	Peak

Vertica	al						
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	7593.6698	-53.28	18.47	-34.81	-13.00	-21.81	Peak
2	9518.2940	-59.26	19.86	-39.40	-13.00	-26.40	Peak

LTE Band 2/10 MHz Lowest Channel

Horizo	ntai						
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	7376.8980	-50.47	18.85	-31.62	-13.00	-18.62	Peak
2	9246.5820	-56.51	20.90	-35.61	-13.00	-22.61	Peak

Vertica	ıl						
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	7376.8980	-51.85	18.33	-33.52	-13.00	-20.52	Peak
2	9246.5820	-58.28	19.81	-38.47	-13.00	-25.47	Peak

19.01



7462.8540

-49.16

2

LTE Band 2/10 MHz _Middle Channel Horizontal Correction Frequency Reading Result No. factor Limit (dBm) Margin (dB) Remark (MHz) (dBm) (dBm) (dB) 1 5618.7760 -47.92 16.04 -31.88 -13.00 -18.88 Peak

-30.15

-13.00

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-17.15

Peak

Vertica	Vertical										
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark				
1	7462.8540	-53.15	18.43	-34.72	-13.00	-21.72	Peak				
2	9354.3240	-62.38	19.94	-42.44	-13.00	-29.44	Peak				

	LTE Band 2/ 10 MHz _Highest Channel										
	Horizo										
	No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark			
Ī	1	5684.2460	-48.26	16.23	-32.03	-13.00	-19.03	Peak			
[2	9518.2940	-51.12	21.24	-29.88	-13.00	-16.88	Peak			

Vertica	ıl						
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3789.5050	-57.03	15.37	-41.66	-13.00	-28.66	Peak
2	7593.6690	-52.55	18.47	-34.08	-13.00	-21.08	Peak

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LTE Band 2/15 MHz _Lowest Channel

Horizontal

No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	7376.8980	-50.32	18.85	-31.47	-13.00	-18.47	Peak
2	9246.5820	-55.51	20.90	-34.61	-13.00	-21.61	Peak

Vertical							
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	7376.8980	-51.00	18.33	-32.67	-13.00	-19.67	Peak
2	9246.5820	-58.35	19.81	-38.54	-13.00	-25.54	Peak

LTE Band 2/15 MHz _Middle Channel

	No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	
I	1	5618.7760	-47.78	16.04	-31.74	-13.00	-18.74	Peak	
ĺ	2	7462.8540	-49.63	18.81	-30.82	-13.00	-17.82	Peak	

Vertica	ıl						
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	7462.8540	-52.50	18.43	-34.07	-13.00	-21.07	Peak
2	9354.3240	-58.78	19.94	-38.84	-13.00	-25.84	Peak

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LTE Band 2/15 MHz _Highest Channel

Horizontal

No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	5684.2460	-48.33	16.23	-32.10	-13.00	-19.10	Peak
2	9518.2940	-50.35	21.24	-29.11	-13.00	-16.11	Peak

Vertical								
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	
1	7593.6690	-51.83	18.47	-33.36	-13.00	-20.36	Peak	
2	9518.2940	-58.20	19.86	-38.34	-13.00	-25.34	Peak	

LTE Band 2/ 20 MHz _Lowest Channel

Helizontal								
	No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
	1	7376.8980	-50.92	18.85	-32.07	-13.00	-19.07	Peak
	2	9246.5820	-55.90	20.90	-35.00	-13.00	-22.00	Peak

Vertical							
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	7376.8980	-51.84	18.33	-33.51	-13.00	-20.51	Peak
2	9246.5820	-57.60	19.81	-37.79	-13.00	-24.79	Peak



LTE Band 2/20 MHz _Middle Channel Horizontal Correction Frequency Reading Result factor Limit (dBm) No. Margin (dB) Remark (dBm) (MHz) (dBm) (dB) 1 7462.8540 -49.44 16.07 -33.37 -13.00 -20.37 Peak 9354.3240 -54.21 -30.43 -13.00 -17.43 Peak 23.78

Vertica	ı							
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	
1	7462.8540	-53.15	18.43	-34.72	-13.00	-21.72	Peak	
2	9354.3240	-61.51	19.94	-41.57	-13.00	-28.57	Peak	

	LTE Ba	LTE Band 2/ 20 MHz _Highest Channel										
ļ	Horizontal											
	No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark				
	1	7549.8110	-49.98	19.09	-30.89	-13.00	-17.89	Peak				
I	2	9463.3200	-50.81	21.22	-29.59	-13.00	-16.59	Peak				

Vertica	I						
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	7549.8110	-52.49	18.48	-34.01	-13.00	-21.01	Peak
2	9463.3200	-57.91	19.86	-38.05	-13.00	-25.05	Peak

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LTE Band 4/ 1.4 MHz _Lowest Channel

Horizontal

No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	8526.3510	-49.36	19.60	-29.76	-13.00	-16.76	Peak
2	10262.7000	-47.85	22.65	-25.20	-13.00	-12.20	Peak

Vertica	Vertical									
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark			
1	6841.8140	-52.16	18.36	-33.80	-13.00	-20.80	Peak			
2	8526.3510	-49.72	18.90	-30.82	-13.00	-17.82	Peak			

LTE Band 4/ 1.4 MHz _Middle Channel

No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	6921.5350	-50.63	18.34	-32.29	-13.00	-19.29	Peak
2	8625.6990	-52.42	19.75	-32.67	-13.00	-19.67	Peak

Vertica	ıl						
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	6921.5350	-53.95	18.11	-35.84	-13.00	-22.84	Peak
2	8625.6990	-54.75	19.03	-35.72	-13.00	-22.72	Peak

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LTE Band 4/ 1.4 MHz _Highest Channel

Horizontal

No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	7002.1850	-46.99	18.17	-28.82	-13.00	-15.82	Peak
2	8776.8980	-50.59	19.86	-30.73	-13.00	-17.73	Peak

Vertica	Vertical									
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark			
1	7002.1850	-51.43	17.87	-33.56	-13.00	-20.56	Peak			
2	8776.8980	-50.34	19.11	-31.23	-13.00	-18.23	Peak			

LTE Band 4/3 MHz _Lowest Channel

	····						
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	6841.8140	-48.21	18.50	-29.71	-13.00	-16.71	Peak
2	10262.7000	-49.03	22.65	-26.38	-13.00	-13.38	Peak

Vertica	al						
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	6841.8140	-51.15	18.36	-32.79	-13.00	-19.79	Peak
2	8526.3510	-51.31	18.90	-32.41	-13.00	-19.41	Peak



LTE Band 4/3 MHz _Middle Channel Horizontal Correction Reading Frequency Result factor Limit (dBm) No. Margin (dB) Remark (MHz) (dBm) (dBm) (dB) 1 5181.1200 -47.77 16.18 -31.59 -13.00 -18.59 Peak 2 10382.2800 -56.42 22.94 -20.48 Peak -33.48-13.00

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Vertica	ıl						
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	6921.5350	-54.15	18.11	-36.04	-13.00	-23.04	Peak
2	8625.6990	-55.16	19.03	-36.13	-13.00	-23.13	Peak

LTE Band 4/3 MHz _Highest Channel Horizontal Correction **Frequency** Reading Result Limit (dBm) No. factor Margin (dB) Remark (dBm) (dBm) (MHz) (dB) 1 7002.1850 18.17 -13.00 -14.56 -45.73 -27.56 Peak 2 -27.41 -13.00 -14.41 8726.2060 -47.27 19.86 Peak

Vertica	ıl						
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	7002.1850	-50.70	17.87	-32.83	-13.00	-19.83	Peak
2	8726.2060	-48.62	19.12	-29.50	-13.00	-16.50	Peak

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LTE Band 4/5 MHz _Lowest Channel

Horizontal

No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	8526.3510	-46.71	19.60	-27.11	-13.00	-14.11	Peak
2	10262.7000	-45.08	22.65	-22.43	-13.00	-9.43	Peak

Vertica	ı						
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	6841.8140	-53.26	18.36	-34.90	-13.00	-21.90	Peak
2	8526.3510	-49.72	18.90	-30.82	-13.00	-17.82	Peak

LTE Band 4/5 MHz _Middle Channel

No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	5151.1960	-45.32	16.12	-29.20	-13.00	-16.20	Peak
2	6881.5600	-45.27	18.43	-26.84	-13.00	-13.84	Peak

Vertica	n l						
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	6881.5600	-52.82	18.25	-34.57	-13.00	-21.57	Peak
2	8625.6990	-53.08	19.03	-34.05	-13.00	-21.05	Peak

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LTE Band 4/5 MHz _Highest Channel

Horizontal

No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	8726.2060	-47.27	19.86	-27.41	-13.00	-14.41	Peak
2	10503.2500	-54.55	23.21	-31.34	-13.00	-18.34	Peak

Vertical								
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	
1	7002.1850	-49.08	17.87	-31.21	-13.00	-18.21	Peak	
2	8726.2060	-49.08	19.12	-29.96	-13.00	-16.96	Peak	

LTE Band 4/ 10 MHz _Lowest Channel

1101120	- Tital						
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	6841.8140	-47.58	18.50	-29.08	-13.00	-16.08	Peak
2	10262.7000	-47.78	22.65	-25.13	-13.00	-12.13	Peak

Vertica	al						
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	8526.3510	-48.61	18.90	-29.71	-13.00	-16.71	Peak
2	10262.7000	-52.97	21.12	-31.85	-13.00	-18.85	Peak



LTE Band 4/10 MHz _Middle Channel Horizontal Correction Frequency Reading Result factor Limit (dBm) No. Margin (dB) Remark (dBm) (MHz) (dBm) (dB) 1 5151.1960 -46.25 16.12 -30.13 -13.00 -17.13 Peak 2 10382.2800 22.94 -30.64 -13.00 -17.64 Peak -53.58

Vertica	ı						
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	6881.5600	-50.00	18.25	-31.75	-13.00	-18.75	Peak
2	8625.6990	-52.82	19.03	-33.79	-13.00	-20.79	Peak

LTE Ba	LTE Band 4/ 10 MHz _Highest Channel									
Horizo	ntal									
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark			
1	5241.4900	-47.42	16.20	-31.22	-13.00	-18.22	Peak			
2	8726.2060	-49.49	19.86	-29.63	-13.00	-16.63	Peak			

Vertica	I						
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	6961.7440	-50.03	17.99	-32.04	-13.00	-19.04	Peak
2	8726.2060	-49.31	19.12	-30.19	-13.00	-17.19	Peak

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LTE Band 4/15 MHz _Lowest Channel

Horizontal

No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	8526.3510	-48.73	19.60	-29.13	-13.00	-16.13	Peak
2	10262.7000	-49.21	22.65	-26.56	-13.00	-13.56	Peak

Vertical								
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	
1	8526.3510	-50.22	18.90	-31.32	-13.00	-18.32	Peak	
2	10262.7000	-58.04	21.12	-36.92	-13.00	-23.92	Peak	

LTE Band 4/15 MHz _Middle Channel

No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	5151.1960	-47.34	16.12	-31.22	-13.00	-18.22	Peak
2	10382.2800	-51.46	22.94	-28.52	-13.00	-15.52	Peak

Vertica	al						
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	6881.5600	-51.70	18.25	-33.45	-13.00	-20.45	Peak
2	8625.6990	-51.31	19.03	-32.28	-13.00	-19.28	Peak

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LTE Band 4/ 15 MHz _Highest Channel

Horizontal

No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	6961.7440	-48.39	18.25	-30.14	-13.00	-17.14	Peak
2	8675.8080	-48.26	19.83	-28.43	-13.00	-15.43	Peak

Vertica	Vertical									
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark			
1	6961.7440	-50.47	17.99	-32.48	-13.00	-19.48	Peak			
2	8675.8080	-51.90	19.10	-32.80	-13.00	-19.80	Peak			

LTE Band 4/ 20 MHz _Lowest Channel

	····						
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	8526.3510	-49.44	19.60	-29.84	-13.00	-16.84	Peak
2	10262.7000	-50.03	22.65	-27.38	-13.00	-14.38	Peak

Vertica	ıl						
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	8526.3510	-48.35	18.90	-29.45	-13.00	-16.45	Peak
2	10262.7000	-57.26	21.12	-36.14	-13.00	-23.14	Peak



LTE Band 4/20 MHz _Middle Channel Horizontal Correction Frequency Reading Result factor Limit (dBm) No. Margin (dB) Remark (dBm) (MHz) (dBm) (dB) 1 8625.6990 -51.63 19.75 -31.88 -13.00 -18.88 Peak 2 10322.3200 -50.37 22.79 -27.58 -13.00 -14.58 Peak

Vertica	Vertical									
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark			
1	5151.1960	-51.76	17.09	-34.67	-13.00	-21.67	Peak			
2	8625.6990	-52.17	18.25	-33.92	-13.00	-20.92	Peak			

l	LTE Band 4/ 20 MHz _Highest Channel								
	Horizo	ntal							
	No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	
	1	6921.5350	-50.16	18.34	-31.82	-13.00	-18.82	Peak	
I	2	8675.8080	-51.19	19.83	-31.36	-13.00	-18.36	Peak	

Vertica	al						
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	6921.5350	-52.60	18.11	-34.49	-13.00	-21.49	Peak
2	8675.8080	-53.40	19.10	-34.30	-13.00	-21.30	Peak



LTE Band 5/ 1.4 MHz _Lowest Channel

Horizontal

No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	4946.5110	-58.54	15.82	-42.72	-13.00	-29.72	Peak
2	5750.4790	-58.03	16.44	-41.59	-13.00	-28.59	Peak

Vertica	Vertical										
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark				
1	1645.6580	-58.31	4.00	-54.31	-13.00	-41.31	Peak				
2	4109.6100	-61.16	15.98	-45.18	-13.00	-32.18	Peak				

LTE Band 5/ 1.4 MHz _Middle Channel

No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	4975.2470	-61.70	15.84	-45.86	-13.00	-32.86	Peak
2	5817.4830	-59.68	16.62	-43.06	-13.00	-30.06	Peak

Vertica	nl						
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1644.8330	-57.61	4.22	-53.39	-13.00	-40.39	Peak
2	4157.4950	-61.17	16.03	-45.14	-13.00	-32.14	Peak



LTE Band 5/ 1.4 MHz _Highest Channel

Horizonta

No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	4230.3710	-52.29	14.77	-37.52	-13.00	-24.52	Peak
2	5919.4570	-58.29	16.80	-41.49	-13.00	-28.49	Peak

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Vertica	Vertical										
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark				
1	1684.2320	-58.29	4.43	-53.86	-13.00	-40.86	Peak				
2	4230.3710	-57.71	16.09	-41.62	-13.00	-28.62	Peak				

LTE Band 5/3 MHz _Lowest Channel

Tionzonia							
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	4109.6100	-56.48	14.51	-41.97	-13.00	-28.97	Peak
2	5750.4790	-58.11	16.44	-41.67	-13.00	-28.67	Peak

Vertica	al						
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1645.6580	-57.02	4.00	-53.02	-13.00	-40.02	Peak
2	4109.6100	-59.42	15.98	-43.44	-13.00	-30.44	Peak



LTE Band 5/3 MHz _Middle Channel Horizontal Correction Reading Frequency Result factor Limit (dBm) No. Margin (dB) Remark (MHz) (dBm) (dBm) (dB) 1 4157.4950 -60.36 14.61 -45.75 -13.00 -32.75 Peak 2 4975.2470 15.84 Peak -62.02 -46.18-13.00 -33.18

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Vertica	Vertical										
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark				
1	1664.8330	-58.11	4.22	-53.89	-13.00	-40.89	Peak				
2	4157.4950	-61.70	16.03	-45.67	-13.00	-32.67	Peak				

LTE Band 5/3 MHz _Highest Channel Horizontal Correction **Frequency** Reading Result Limit (dBm) No. factor Margin (dB) Remark (dBm) (dBm) (MHz) (dB) 1 4230.3710 14.77 -36.28 -13.00 -23.28 -51.05 Peak 2 19.41 -13.00 -23.34 Peak 8428.1460 -55.75 -36.34

Vertic	al						
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	4230.3710	-58.54	16.09	-42.45	-13.00	-29.45	Peak
2	8428.1460	-61.94	18.71	-43.23	-13.00	-30.23	Peak

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LTE Band 5/5 MHz _Lowest Channel

Horizontal

No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	4109.6100	-54.04	14.51	-39.53	-13.00	-26.53	Peak
2	5750.4790	-58.55	16.44	-42.11	-13.00	-29.11	Peak

Vertica	Vertical									
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark			
1	1645.6500	-56.90	4.00	-52.90	-13.00	-39.90	Peak			
2	4109.6100	-59.76	15.98	-43.78	-13.00	-30.78	Peak			

LTE Band 5/5 MHz _Middle Channel

No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	4157.4950	-59.89	14.61	-45.28	-13.00	-32.28	Peak
2	4975.2470	-61.26	15.84	-45.42	-13.00	-32.42	Peak

Vertica	nl						
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1664.8330	-58.37	4.22	-54.15	-13.00	-41.15	Peak
2	4157.4950	-61.33	16.03	-45.30	-13.00	-32.30	Peak

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LTE Band 5/ 5 MHz _Highest Channel

Horizontal

No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	4230.3710	-56.05	14.77	-41.28	-13.00	-28.28	Peak
2	5919.4570	-59.49	16.80	-42.69	-13.00	-29.69	Peak

Vertica	ıl									
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark			
1	4230.3710	-56.18	16.09	-40.09	-13.00	-27.09	Peak			
2	8428.1460	-60.25	18.71	-41.54	-13.00	-28.54	Peak			

LTE Band 5/ 10 MHz _Lowest Channel

No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	4109.6100	-55.36	14.51	-40.85	-13.00	-27.85	Peak
2	5750.4790	-58.10	16.44	-41.66	-13.00	-28.66	Peak

Vertica	al						
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1645.6580	-56.50	4.00	-52.50	-13.00	-39.50	Peak
2	4109.6100	-61.96	15.98	-45.98	-13.00	-32.98	Peak



-	LTE Band 5/ 10 MHz _Middle Channel Horizontal										
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark				
1	4157.4950	-58.87	14.61	-44.26	-13.00	-31.26	Peak				
2	4975.2470	-61.93	15.84	-46.09	-13.00	-33.09	Peak				

Vertica	ı						
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1664.8330	-57.98	4.22	-53.76	-13.00	-40.76	Peak
2	4157.4950	-60.24	16.03	-44.21	-13.00	-31.21	Peak

	LTE Ba	LTE Band 5/ 10 MHz _Highest Channel									
	Horizo	ntal									
	No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark			
ĺ	1	4181.6460	-55.29	14.66	-40.63	-13.00	-27.63	Peak			
	2	5851.2780	-57.71	16.68	-41.03	-13.00	-28.03	Peak			

Vertica	ıl							
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	
1	1674.5040	-55.43	4.32	-51.11	-13.00	-38.11	Peak	
2	4181.6460	-58.11	16.05	-42.06	-13.00	-29.06	Peak	

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LTE Band 7/5 MHz _Lowest Channel

Horizontal

No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	7507.5000	-60.12	19.08	-41.04	-25.00	-16.04	Peak
2	10010.0000	-59.53	22.20	-37.33	-25.00	-12.33	Peak

Vertica	al							
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	
1	7507.5000	-60.37	18.48	-41.89	-25.00	-16.89	Peak	
2	10010.0000	-61.66	21.18	-40.48	-25.00	-15.48	Peak	

LTE Band 7/5 MHz _Middle Channel

No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	7605.0000	-65.39	19.09	-46.30	-25.00	-21.30	Peak
2	10140.0000	-66.77	22.41	-44.36	-25.00	-19.36	Peak

Vertica	al						
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	7605.0000	-66.56	18.47	-48.09	-25.00	-23.09	Peak
2	10140.0000	-66.53	21.13	-45.40	-25.00	-20.40	Peak

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LTE Band 7/5 MHz _Highest Channel

Horizontal

No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	7702.5000	-66.51	19.11	-47.40	-25.00	-22.40	Peak
2	10270.0000	-65.98	22.66	-43.32	-25.00	-18.32	Peak

Vertica	ı							
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	
1	7702.0000	-67.01	18.47	-48.54	-25.00	-23.54	Peak	
2	10270.0000	-66.38	20.98	-45.40	-25.00	-20.40	Peak	

LTE Band 7/10 MHz _Lowest Channel

1101120	IIIai						
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	7515.0000	-62.52	19.08	-43.44	-25.00	-18.44	Peak
2	10020.0000	-66.66	22.22	-44.44	-25.00	-19.44	Peak

Ver	tica	ıl						
No	o.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1		7515.0000	-66.01	18.47	-47.54	-25.00	-22.54	Peak
2		10020.0000	-67.74	21.18	-46.56	-25.00	-21.56	Peak



LTE Band 7/10 MHz _Middle Channel Horizontal Correction Frequency Reading Result factor Limit (dBm) No. Margin (dB) Remark (dBm) (MHz) (dBm) (dB) 1 7605.0000 -67.12 19.09 -48.03 -25.00 -23.03 Peak 2 10140.0000 -67.15 22.41 -44.74 -25.00 -19.74 Peak

Vertica	ıl						
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	7605.0000	-66.74	18.47	-48.27	-25.00	-23.27	Peak
2	10140.0000	-67.93	21.13	-46.80	-25.00	-21.80	Peak

LTE Band 7/10 MHz _Highest Channel								
	Horizo	ntal						
	No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
	1	7695.0000	-64.92	19.11	-45.81	-25.00	-20.81	Peak
	2	10260.0000	-66.18	22.64	-43.54	-25.00	-18.54	Peak

Vertica	al						
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	7695.0000	-66.32	18.47	-47.85	-25.00	-22.85	Peak
2	10260.0000	-66.12	21.11	-45.01	-25.00	-20.01	Peak

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LTE Band 7/15 MHz _Lowest Channel

Horizontal

No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	7522.5000	-55.17	19.09	-36.08	-25.00	-11.08	Peak
2	10030.0000	-53.88	22.25	-31.63	-25.00	-6.63	Peak

Vertica	ıl						
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	7522.5000	-62.36	18.48	-43.88	-25.00	-18.88	Peak
2	10030.0000	-62.30	21.19	-41.11	-25.00	-16.11	Peak

LTE Band 7/15 MHz _Middle Channel

No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	7605.0000	-66.11	19.09	-47.02	-25.00	-22.02	Peak
2	10140.0000	-66.99	22.41	-44.58	-25.00	-19.58	Peak

Vertica	al						
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	7605.0000	-66.84	18.47	-48.37	-25.00	-23.37	Peak
2	10140.0000	-66.61	21.13	-45.48	-25.00	-20.48	Peak

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LTE Band 7/15 MHz _Highest Channel

Horizontal

No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	7680.0000	-64.39	19.10	-45.29	-25.00	-20.29	Peak
2	10240.0000	-66.17	22.60	-43.57	-25.00	-18.57	Peak

Vertica	Vertical									
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark			
1	7687.5000	-65.35	18.47	-46.88	-25.00	-21.88	Peak			
2	10250.0000	-66.58	21.12	-45.46	-25.00	-20.46	Peak			

LTE Band 7/20 MHz _Lowest Channel

1101120	IItai						
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	7506.2070	-66.39	18.48	-47.91	-25.00	-22.91	Peak
2	10027.6500	-62.79	21.19	-41.60	-25.00	-16.60	Peak

Vertica	al						
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	7506.2070	-56.85	18.48	-38.37	-25.00	-13.37	Peak
2	10027.6500	-60.80	21.19	-39.61	-25.00	-14.61	Peak



LTE Band 7 20 MHz _Middle Channel Horizontal Correction Frequency Reading Result factor Limit (dBm) No. Margin (dB) Remark (dBm) (MHz) (dBm) (dB) 1 7549.8110 -61.04 19.09 -41.95 -25.00 -16.95 Peak 2 10085.9100 -60.85 22.33 -38.52 -25.00 -13.52 Peak

Vertica	Vertical									
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark			
1	7549.8110	-60.02	18.48	-41.54	-25.00	-16.54	Peak			
2	10085.9100	-68.47	21.16	-47.31	-25.00	-22.31	Peak			

	LTE Ba	LTE Band 7/20 MHz _Highest Channel										
	Horizontal											
	No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark				
ĺ	1	10262.700	-60.17	22.65	-37.52	-25.00	-12.52	Peak				
	2	12789.500	-60.70	23.74	-36.96	-25.00	-11.96	Peak				

Vertica	I						
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	7680.0000	-65.47	18.47	-47.00	-25.00	-22.00	Peak
2	10203.4300	-60.31	21.10	-39.21	-25.00	-14.21	Peak

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LTE Band 12/ 1.4 MHz _Lowest Channel

Horizontal

No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	4889.5390	-55.96	15.77	-40.19	-13.00	-27.19	Peak
2	8379.4680	-56.03	19.35	-36.68	-13.00	-23.68	Peak

Vertica	Vertical									
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark			
1	4181.6460	-64.70	16.05	-48.65	-13.00	-35.65	Peak			
2	8379.4680	-62.53	18.65	-43.88	-13.00	-30.88	Peak			

LTE Band 12/ 1.4 MHz _Middle Channel

No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	4205.9380	-60.26	14.72	-45.54	-13.00	-32.54	Peak
2	8428.1460	-63.18	19.41	-43.77	-13.00	-30.77	Peak

Vertical							
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1432.075	4205.9380	-62.34	16.07	-46.27	-13.00	-33.27	Peak
3535.050	8428.1460	-64.37	18.71	-45.66	-13.00	-32.66	Peak

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LTE Band 12/ 1.4 MHz _Highest Channel

Horizontal

No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	5004.1480	-55.62	15.86	-39.76	-13.00	-26.76	Peak
2	8575.8810	-54.27	19.67	-34.60	-13.00	-21.60	Peak

Vertica	Vertical										
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark				
1	4279.6640	-59.16	16.11	-43.05	-13.00	-30.05	Peak				
2	8575.8810	-55.91	18.96	-36.95	-13.00	-23.95	Peak				

LTE Band 12/3 MHz _Lowest Channel

	1101120	III						
	No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
	1	4889.5390	-62.91	15.77	-47.14	-13.00	-34.14	Peak
I	2	8379.4680	-62.26	19.35	-42.91	-13.00	-29.91	Peak

Vertica	al <u> </u>						
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	4181.6460	-62.68	16.05	-46.63	-13.00	-33.63	Peak
2	8379.4680	-61.04	18.65	-42.39	-13.00	-29.39	Peak



LTE Ba	LTE Band 12/ 3 MHz _Middle Channel											
Horizontal												
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark					
1	4917.8420	-62.19	15.80	-46.39	-13.00	-33.39	Peak					
2	8428.1460	-63.20	19.41	-43.79	-13.00	-30.79	Peak					

Vertical							
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	4205.9380	-62.27	16.07	-46.20	-13.00	-33.20	Peak
2	8428.1460	-63.62	18.71	-44.91	-13.00	-31.91	Peak

LTE E	LTE Band 12/ 3 MHz _Highest Channel										
Horiz	Horizontal										
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark				
1	4279.6640	-57.94	14.85	-43.09	-13.00	-30.09	Peak				
2	8526.3510	-58.74	19.60	-39.14	-13.00	-26.14	Peak				

Vertica	ıl						
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	4279.6640	-60.76	16.11	-44.65	-13.00	-31.65	Peak
2	8526.3510	-60.26	18.90	-41.36	-13.00	-28.36	Peak

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LTE Band 12/5 MHz _Lowest Channel

Horizontal

No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	4889.5390	-61.15	15.77	-45.38	-13.00	-32.38	Peak
2	8379.4680	-58.77	19.35	-39.42	-13.00	-26.42	Peak

Vertica	Vertical										
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark				
1	4181.6460	-62.48	16.05	-46.43	-13.00	-33.43	Peak				
2	8379.4680	-61.45	18.65	-42.80	-13.00	-29.80	Peak				

LTE Band 12/5 MHz _Middle Channel

No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	4205.9380	-62.85	15.80	-47.05	-13.00	-34.05	Peak
2	8428.1460	-64.11	19.41	-44.70	-13.00	-31.70	Peak

Vertica	ıl						
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	4205.9380	-62.63	16.07	-46.56	-13.00	-33.56	Peak
2	8428.1460	-62.73	18.71	-44.02	-13.00	-31.02	Peak

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LTE Band 12/ 5 MHz _Highest Channel

Horizontal

No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	5684.2460	-57.14	16.23	-40.91	-13.00	-27.91	Peak
2	8526.3510	-57.33	19.60	-37.73	-13.00	-24.73	Peak

Vertical								
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	
1	4254.9460	-60.84	16.10	-44.74	-13.00	-31.74	Peak	
2	8526.3510	-62.61	18.90	-43.71	-13.00	-30.71	Peak	

LTE Band 12/ 10 MHz _Lowest Channel

Horizo	ntai						
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	4889.5390	-60.55	15.77	-44.78	-13.00	-31.78	Peak
2	8379.4680	-60.51	19.35	-41.16	-13.00	-28.16	Peak

Vertica	al						
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	4181.6460	-62.07	16.05	-46.02	-13.00	-33.02	Peak
2	8379.4680	-62.79	18.65	-44.14	-13.00	-31.14	Peak

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LTE Band 12/ 10 MHz _Middle Channel

Horizontal

No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	4205.9380	-59.38	14.72	-44.66	-13.00	-31.66	Peak
2	8428.1460	-62.89	19.41	-43.48	-13.00	-30.48	Peak

Vertical								
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	
1	4205.9380	-64.64	16.07	-48.57	-13.00	-35.57	Peak	
2	8428.1460	-63.97	18.71	-45.26	-13.00	-32.26	Peak	

LTE Band 12/ 10 MHz _Highest Channel

No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	4230.3710	-54.28	14.77	-39.51	-13.00	-26.51	Peak
2	8477.1050	-59.24	19.51	-39.73	-13.00	-26.73	Peak

Vertical								
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	
1	4230.3710	-57.53	16.09	-41.44	-13.00	-28.44	Peak	
2	8477.1050	-59.48	18.81	-40.67	-13.00	-27.67	Peak	

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LTE Band 13/5 MHz _Lowest Channel

Horizontal

No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1559.000	-67.87	1.69	-66.18	-13.00	-53.18	Peak
2	2338.500	-69.21	8.25	-60.96	-13.00	-47.96	Peak

Vertical								
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	
1	1559.000	-68.34	3.00	-65.34	-13.00	-52.34	Peak	
2	2338.500	-68.36	10.74	-57.62	-13.00	-44.62	Peak	

LTE Band 13/5 MHz _Middle Channel

No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1564.000	-68.18	1.74	-66.44	-13.00	-53.44	Peak
2	2346.000	-69.02	8.36	-60.66	-13.00	-47.66	Peak

Vertica							
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1564.000	-68.54	3.07	-65.47	-13.00	-52.47	Peak
2	2346.000	-69.53	10.84	-58.69	-13.00	-45.69	Peak

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LTE Band 13/5 MHz _Highest Channel

Horizontal

No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1569.000	-69.13	1.77	-67.36	-13.00	-54.36	Peak
2	2353.500	-68.53	8.46	-60.07	-13.00	-47.07	Peak

Vertica	ıl						
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1569.000	-67.64	3.12	-64.52	-13.00	-51.52	Peak
2	2353.500	-69.16	10.94	-58.22	-13.00	-45.22	Peak

LTE Band 13/ 10 MHz _Middle Channel

No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1564.000	-67.74	1.74	-66.00	-13.00	-53.00	Peak
2	2346.000	-68.09	8.36	-59.73	-13.00	-46.73	Peak

Vertica	1						
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1564.000	-68.59	3.07	-65.52	-13.00	-52.52	Peak
2	2346.000	-68.38	10.84	-57.54	-13.00	-44.54	Peak



LTE Ba	LTE Band 17/ 5 MHz _Lowest Channel										
Horizontal											
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark				
1	2111.1030	-61.79	5.77	-56.02	-13.00	-43.02	Peak				
2	4205.9380	-59.26	14.72	-44.54	-13.00	-31.54	Peak				

Vertica	ı						
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	2111.1030	-64.91	8.54	-56.37	-13.00	-43.37	Peak
2	4205.9380	-65.69	16.07	-49.62	-13.00	-36.62	Peak

LTE Ba	LTE Band 17/ 5 MHz _Middle Channel										
Horizontal											
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark				
1	2111.1030	-58.00	5.77	-52.23	-13.00	-39.23	Peak				
2	4230.3710	-58.49	14.77	-43.72	-13.00	-30.72	Peak				

Vertica							
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	2111.1030	-63.43	8.54	-54.89	-13.00	-41.89	Peak
2	4230.3710	-60.93	16.09	-44.84	-13.00	-31.84	Peak

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LTE Band 17/ 5 MHz _Highest Channel

Horizontal

No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	4254.9460	-54.86	14.81	-40.05	-13.00	-27.05	Peak
2	8526.3510	-57.25	19.60	-37.65	-13.00	-24.65	Peak

Vertica	Vertical								
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark		
1	4254.9460	-58.63	16.10	-42.53	-13.00	-29.53	Peak		
2	8526.3510	-59.57	18.90	-40.67	-13.00	-27.67	Peak		

LTE Band 17/ 10 MHz _Lowest Channel

No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	2111.1030	-60.46	5.77	-54.69	-13.00	-41.69	Peak
2	4205.9380	-61.04	14.72	-46.32	-13.00	-33.32	Peak

Vertica	ıl						
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	2111.1030	-64.11	8.54	-55.57	-13.00	-42.57	Peak
2	4205.9380	-63.31	16.07	-47.24	-13.00	-34.24	Peak

14.77



4230.3710

-58.13

2

LTE Band 17/ 10 MHz _Middle Channel Horizontal Correction Frequency Reading Result No. factor Limit (dBm) Margin (dB) Remark (MHz) (dBm) (dBm) (dB) 2111.1030 -57.45 5.77 -51.68 -13.00 -38.68 Peak 1

-43.36

-13.00

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-30.36

Peak

Vertical										
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark			
1	2111.1030	-63.17	8.54	-54.63	-13.00	-41.63	Peak			
2	4230.3710	-60.42	16.09	-44.33	-13.00	-31.33	Peak			

LTE	LTE Band 17/ 10 MHz _Highest Channel										
Horizontal											
No	Э.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark			
1		4230.3710	-58.22	14.77	-43.45	-13.00	-30.45	Peak			
2		8477.1050	-61.77	19.51	-42.26	-13.00	-29.26	Peak			

Vertica	ıl						
No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	4230.3710	-58.90	16.09	-42.81	-13.00	-29.81	Peak
2	8477.1050	-61.84	18.81	-43.03	-13.00	-30.03	Peak

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5.9 FREQUENCY STABILITY

Test Requirement: FCC 47 CFR Part 2.1055 & FCC 47 CFR Part 22.355 & FCC 47 CFR Part 24.235

Test Method: ANSI/TIA-603-E-2016 & KDB 971168 D01v03r01

Limits: The carrier frequency shall not depart from the reference frequency in excess of ±2.5

ppm for mobile stations.

Test Setup: Refer to section 4.2.2 for details.

Test Procedures:

1) Use CMW 500 or CMU 200 with Frequency Error measurement capability.

a) Temp. = -10° to + 50° C

b) Voltage = low voltage, 3.6 Vdc, Normal, 3.8 Vdc and High voltage, 4.4 Vdc.

2) Frequency Stability vs Temperature:

The EUT is place inside a temperature chamber. The temperature is set to 20°C and allowed to stabilize. After sufficient soak time, the transmitting frequency error is measured. The temperature is increased by 10 degrees, allowed to stabilize and soak, and then the measurement is repeated. This is repeated until +50°C is reached.

3) Frequency Stability vs Voltage:

The peak frequency error is recorded (worst-case).

Equipment Used: Refer to section 3 for details.

Test Result: Pass

Modulation	Channel/ Frequency	Voltage	Temperature	Deviation	Deviation	Limit	Pass/ Fail			
	(MHz)	(Vdc)	(℃)	(Hz)	(ppm)	(ppm)				
	GSM 850 1Tx-slot									
		VL		-12	-0.0143	± 2.5	Pass			
		VN	TN	-6	-0.0072	± 2.5	Pass			
		VH		-17	-0.0203	± 2.5	Pass			
			50	-1	-0.0012	± 2.5	Pass			
			40	-11	-0.0131	± 2.5	Pass			
GMSK	190 / 836.6		30	5	0.0060	± 2.5	Pass			
GIVISK	190 / 836.6		20	-11	-0.0131	± 2.5	Pass			
		VN	10	-14	-0.0167	± 2.5	Pass			
			0	-13	-0.0155	± 2.5	Pass			
			-10	14	0.0167	± 2.5	Pass			
			-20	6	0.0072	± 2.5	Pass			
			-30	4	0.0048	± 2.5	Pass			

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Modulation	Channel/ Frequency	Voltage	Temperature	Deviation	Deviation	Limit	Pass/ Fail						
	(MHz)	(Vdc)	(℃)	(Hz)	(ppm)	(ppm)							
		VL		-9	-0.0108	± 2.5	Pass						
		VN	TN	-8	-0.0096	± 2.5	Pass						
		VH		7	0.0084	± 2.5	Pass						
			50	-18	-0.0215	± 2.5	Pass						
					40	-15	-0.0179	± 2.5	Pass				
8PSK	100 / 926 6		30	-6	-0.0072	± 2.5	Pass						
OFSK	190 / 836.6							0.0	20	-7	-0.0084	± 2.5	Pass
		VN	10	4	0.0048	± 2.5	Pass						
			0	8	0.0096	± 2.5	Pass						
			-10	7	0.0084	± 2.5	Pass						
			-20	6	0.0072	± 2.5	Pass						
			-30	7	0.0084	± 2.5	Pass						

Modulation	Channel/ Frequency	Voltage	Temperature	Deviation	Deviation	Limit	Pass/ Fail			
	(MHz)	(Vdc)	(℃)	(Hz)	(ppm)	(ppm)				
	WCDMA Band V RMC 12.2Kbps									
		VL		7	0.0084	± 2.5	Pass			
		VN	TN	-9	-0.0108	± 2.5	Pass			
		VH		-10	-0.0120	± 2.5	Pass			
			50	20	0.0239	± 2.5	Pass			
				40	15	0.0179	± 2.5	Pass		
BPSK	4182 / 836.4		30	-8	-0.0096	± 2.5	Pass			
BESK	4102 / 030.4		20	-14	-0.0167	± 2.5	Pass			
		VN	10	-5	-0.0060	± 2.5	Pass			
			0	1	0.0012	± 2.5	Pass			
			-10	8	0.0096	± 2.5	Pass			
			-20	17	0.0203	± 2.5	Pass			
			-30	3	0.0036	± 2.5	Pass			

Modulation	Channel/ Frequency	Voltage	Temperatur e	Deviation	Deviation	Limit	Pass/ Fail
	(MHz)	(Vdc)	(℃)	(Hz)	(ppm)	(ppm)	
			GSM 1900	1Tx-slot			
		VL		12	0.0064		Pass
		VN	TN	-8	-0.0043		Pass
		VH	1	1	0.0005		Pass
			50	-4	-0.0021	NI/A(noto1)	Pass
			40	-8	-0.0043		Pass
GMSK	661 / 1880.0		30	13	0.0069		Pass
GIVISIX	0017 1000.0		20	-17	-0.0090	N/A(note1)	Pass
		VN	10	2	0.0011		Pass
			0	12	0.0064		Pass
			-10	-4	-0.0021		Pass
			-20	-3	-0.0016		Pass
			-30	-7	-0.0037		Pass

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Modulation	Channel/ Frequency	Voltage	Temperatur e	Deviation	Deviation	Limit	Pass/ Fail
	(MHz)	(Vdc)	(℃)	(Hz)	(ppm)	(ppm)	
			EDGE 190	0 1Tx-slot			
		VL		16	0.0085		Pass
		VN	TN	10	0.0053		Pass
		VH		-17	-0.0090		Pass
		24 / 4000 0	50	13	0.0069	N/A/pata1)	Pass
			40	2	0.0011		Pass
8PSK	661 / 1880.0		30	-9	-0.0048		Pass
OPSK	0017 1000.0		20	-7	-0.0037	N/A(note1)	Pass
		VN	10	8	0.0043		Pass
			0	-10	-0.0053		Pass
			-10	-11	-0.0059		Pass
			-20	-11	-0.0059		Pass
			-30	14	0.0074		Pass

Modulation	Channel/ Frequency	Voltage	Temperatur e	Deviation	Deviation	Limit	Pass/ Fail									
	(MHz)	(Vdc)	(℃)	(Hz)	(ppm)	(ppm)										
		WO	DMA Band II	RMC 12.2Kb	ps											
		VL		-15	-0.0080		Pass									
		VN	TN	-6	-0.0032		Pass									
		VH		16	0.0085		Pass									
		9400 / 1880.0	50	-6	-0.0032		Pass									
			40	1	0.0005		Pass									
BPSK	9400 /		30	2	0.0011	N/A(note1)	Pass									
BESK	1880.0												20	-4	-0.0021	N/A(note i)
		VN	10	-16	-0.0085		Pass									
			0	7	0.0037		Pass									
			-10	14	0.0074		Pass									
			-20	8	0.0043		Pass									
			-30	-7	-0.0037		Pass									

Modulation	Channel/ Frequency	Voltage	Temperatur e	Deviation	Deviation	Limit	Pass/ Fail
	(MHz)	(Vdc)	(℃)	(Hz)	(ppm)	(ppm)	
		WC	DMA Band IV	RMC 12.2Kb	ps		
		VL		-18	-0.0104		Pass
		VN	TN	-9	-0.0052		Pass
		VH		-9	-0.0052		Pass
			50	-17	-0.0098	N/A(note1)	Pass
			40	20	0.0115		Pass
BMSK	1412 /		30	18	0.0104		Pass
DIVION	1732.4		20	10	0.0058		Pass
		VN	10	-20	-0.0115		Pass
			0	-4	-0.0023		Pass
			-10	6	0.0035		Pass
			-20	-11	-0.0063		Pass
			-30	11	0.0063		Pass

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Modulation	Channel/ Frequency	Voltage	Temperatur e	Deviation	Deviation	Limit	Pass/ Fail
	(MHz)	(Vdc)	(℃)	(Hz)	(ppm)	(ppm)	
		L'	TE Band 2 / 20	OMHz / Full R	В		
		VL		18	0.0096		Pass
		VN	TN	-10	-0.0053		Pass
		VH		5	0.0027		Pass
			50	-11	-0.0059		Pass
				40	4	0.0021	
QPSK	18900 /		30	-9	-0.0048	N/A(note1)	Pass
QPSK	1880.0		20	8	0.0043		Pass
		VN	10	-14	-0.0074		Pass
			0	13	0.0069		Pass
			-10	-19	-0.0101		Pass
			-20	20	0.0106		Pass
			-30	-1	-0.0005		Pass

Modulation	Channel/ Frequency	Voltage	Temperatur e	Deviation	Deviation	Limit	Pass/ Fail		
	(MHz)	(Vdc)	(℃)	(Hz)	(ppm)	(ppm)			
	LTE Band 4 / 20MHz / Full RB								
		VL		10	0.0058		Pass		
		VN	TN	-16	-0.0092		Pass		
		VH		-14	-0.0081		Pass		
			50	20	0.0115	N/A(notod)	Pass		
			40	-13	-0.0075		Pass		
QPSK	20175 /		30	6	0.0035		Pass		
QPSK	1732.5		20	-16	-0.0092	N/A(note1)	Pass		
		VN	10	1	0.0006		Pass		
			0	20	0.0115		Pass		
			-10	-9	-0.0052		Pass		
			-20	-12	-0.0069		Pass		
			-30	-9	-0.0052		Pass		

Modulation	Channel/ Frequency	Voltage	Temperature	Deviation	Deviation	Limit	Pass/ Fail	
	(MHz)	(Vdc)	(℃)	(Hz)	(ppm)	(ppm)		
LTE Band 5 / 10MHz / Full RB								
		VL	TN	16	0.0191	± 2.5	Pass	
		VN		-1	-0.0012	± 2.5	Pass	
	20525 / 836.5	VH		12	0.0143	± 2.5	Pass	
		VN	50	-1	-0.0012	± 2.5	Pass	
			40	20	0.0239	± 2.5	Pass	
QPSK			30	-15	-0.0179	± 2.5	Pass	
QFSK			20	-13	-0.0155	± 2.5	Pass	
			10	19	0.0227	± 2.5	Pass	
			0	-17	-0.0203	± 2.5	Pass	
			-10	-11	-0.0132	± 2.5	Pass	
			-20	-13	-0.0155	± 2.5	Pass	
			-30	5	0.0060	± 2.5	Pass	

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Modulation	Channel/ Frequency	Voltage	Temperatur e	Deviation	Deviation	Limit	Pass/ Fail		
	(MHz)	(Vdc)	(℃)	(Hz)	(ppm)	(ppm)			
LTE Band 7 / 20MHz / Full RB									
		VL		-9	-0.0036		Pass		
		VN VH	TN	-9	-0.0036	N/A(note1)	Pass		
	21100 / 2535			-5	-0.0020		Pass		
			50	-11	-0.0043		Pass		
			40	-13	-0.0051		Pass		
QPSK			30	-10	-0.0039		Pass		
QPSK			20	-7	-0.0028		Pass		
			10	5	0.0020		Pass		
			0	8	0.0032		Pass		
			-10	7	0.0028		Pass		
			-20	7	0.0028		Pass		
			-30	6	0.0024		Pass		

Modulation	Channel/ Frequency	Voltage	Temperatur e	Deviation	Deviation	Limit	Pass/ Fail		
	(MHz)	(Vdc)	(℃)	(Hz)	(ppm)	(ppm)			
LTE Band 12 / 10MHz / Full RB									
		VL		-15	-0.0212	N/A(note1)	Pass		
		VN VH	TN	9	0.0127		Pass		
	23095 / 707.5			-14	-0.0198		Pass		
			50	17	0.0240		Pass		
			40	10	0.0141		Pass		
QPSK			30	17	0.0240		Pass		
QFSK			20	8	0.0113		Pass		
			10	-8	-0.0113		Pass		
		0	-19	-0.0269		Pass			
			-10	-16	-0.0226		Pass		
			-20	-13	-0.0184		Pass		
			-30	-5	-0.0071		Pass		

Modulation	Channel/ Frequency	Voltage	Temperatur e	Deviation	Deviation	Limit	Pass/ Fail
	(MHz)	(Vdc)	(℃)	(Hz)	(ppm)	(ppm)	
		LT	E Band 17 / 1	0MHz / Full F	RB		
		VL		11	0.0155		Pass
		VN VH	TN	8	0.0113		Pass
	23790 / 710			-9	-0.0127	N/A(note1)	Pass
		VN	50	-8	-0.0113		Pass
			40	11	0.0155		Pass
QPSK			30	12	0.0169		Pass
QFSK			20	9	0.0127		Pass
			10	8	0.0113		Pass
			0	11	0.0155		Pass
			-10	7	0.0099		Pass
			-20	9	0.0127		Pass
			-30	11	0.0155		Pass

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Modulation	Channel/ Frequency	Voltage	Temperatur e	Deviation	Deviation	Limit	Pass/ Fail		
	(MHz)	(Vdc)	(℃)	(Hz)	(ppm)	(ppm)			
	LTE Band 13 / 10MHz / Full RB								
		VL		-5	-0.0064		Pass		
	23230 / 782	VN VH	TN	-9	-0.0115	N/A(note1)	Pass		
				-6	-0.0077		Pass		
		VN	50	-14	-0.0179		Pass		
			40	10	0.0128		Pass		
QPSK			30	-10	-0.0128		Pass		
QFSK			20	-7	-0.0090		Pass		
			10	5	0.0064		Pass		
			0	7	0.0090		Pass		
			-10	-5	-0.0064		Pass		
			-20	3	0.0038		Pass		
			-30	8	0.0102		Pass		

note1: The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.



APPENDIX 1 PHOTOS OF TEST SETUP

See test photos attached in Appendix 1 for the actual connections between Product and support equipment.

