

1. Transmitter Conducted Power Output

1.1 Test Result

1.1.1 B26a_1.4MHz_ERP

Band: 26a / Bandwidth: 1.4MHz / NTV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	814.7	1	0	22.71	3.53	/	/	Pass
			2	22.73	3.53	/	/	Pass
			5	22.55	3.53	/	/	Pass
		3	0	22.67	3.53	/	/	Pass
			2	22.74	3.53	/	/	Pass
			3	22.65	3.53	/	/	Pass
		6	0	21.69	3.53	/	/	Pass
	819	1	0	22.79	3.53	/	/	Pass
			2	22.80	3.53	/	/	Pass
			5	22.69	3.53	/	/	Pass
		3	0	22.73	3.53	/	/	Pass
			2	22.73	3.53	/	/	Pass
			3	22.68	3.53	/	/	Pass
		6	0	21.73	3.53	/	/	Pass
	823.3	1	0	22.80	3.53	/	/	Pass
			2	22.78	3.53	/	/	Pass
			5	22.71	3.53	/	/	Pass
		3	0	22.73	3.53	/	/	Pass
			2	22.77	3.53	/	/	Pass
			3	22.68	3.53	/	/	Pass
		6	0	21.73	3.53	/	/	Pass
16QAM	814.7	1	0	21.66	3.53	/	/	Pass
			2	21.77	3.53	/	/	Pass
			5	21.60	3.53	/	/	Pass
		3	0	21.70	3.53	/	/	Pass
			2	21.84	3.53	/	/	Pass
			3	21.89	3.53	/	/	Pass
		6	0	20.63	3.53	/	/	Pass
	819	1	0	21.68	3.53	/	/	Pass
			2	21.84	3.53	/	/	Pass
			5	21.65	3.53	/	/	Pass
		3	0	21.74	3.53	/	/	Pass
			2	21.91	3.53	/	/	Pass
			3	21.89	3.53	/	/	Pass
		6	0	20.67	3.53	/	/	Pass
	823.3	1	0	21.70	3.53	/	/	Pass
			2	21.87	3.53	/	/	Pass
			5	21.70	3.53	/	/	Pass
		3	0	21.72	3.53	/	/	Pass
			2	21.86	3.53	/	/	Pass
			3	21.90	3.53	/	/	Pass
		6	0	20.68	3.53	/	/	Pass
64QAM	814.7	1	0	21.18	3.53	/	/	Pass
			2	20.68	3.53	/	/	Pass
			5	20.68	3.53	/	/	Pass
		3	0	20.91	3.53	/	/	Pass
			2	20.77	3.53	/	/	Pass
			3	20.75	3.53	/	/	Pass
		6	0	19.77	3.53	/	/	Pass

	819	1	0	21.15	3.53	/	/	Pass		
			2	20.70	3.53	/	/	Pass		
			5	20.69	3.53	/	/	Pass		
		3	0	20.94	3.53	/	/	Pass		
			2	20.81	3.53	/	/	Pass		
			3	20.75	3.53	/	/	Pass		
		6	0	19.82	3.53	/	/	Pass		
		823.3	1	0	21.21	3.53	/	/	Pass	
				2	20.73	3.53	/	/	Pass	
	5			20.72	3.53	/	/	Pass		
	3		0	20.81	3.53	/	/	Pass		
			2	20.75	3.53	/	/	Pass		
			3	20.90	3.53	/	/	Pass		
	6		0	19.66	3.53	/	/	Pass		
	256QAM		814.7	1	0	18.01	3.53	/	/	Pass
					2	18.07	3.53	/	/	Pass
		5			17.61	3.53	/	/	Pass	
		3		0	17.82	3.53	/	/	Pass	
2				18.01	3.53	/	/	Pass		
3				17.82	3.53	/	/	Pass		
6		0		17.70	3.53	/	/	Pass		
819		1		0	18.07	3.53	/	/	Pass	
				2	17.66	3.53	/	/	Pass	
			5	18.04	3.53	/	/	Pass		
		3	0	18.02	3.53	/	/	Pass		
			2	17.83	3.53	/	/	Pass		
			3	17.85	3.53	/	/	Pass		
		6	0	17.95	3.53	/	/	Pass		
		823.3	1	0	17.66	3.53	/	/	Pass	
				2	18.12	3.53	/	/	Pass	
5				18.07	3.53	/	/	Pass		
3			0	17.85	3.53	/	/	Pass		
			2	17.87	3.53	/	/	Pass		
			3	18.03	3.53	/	/	Pass		
6			0	17.73	3.53	/	/	Pass		
Note1: ERP=Conducted Power+Antenna Gain-2.15										

1.1.2 B26a_3MHz_ERP

Band: 26a / Bandwidth: 3MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	815.5	1	0	22.77	3.53	/	/	Pass
			7	22.80	3.53	/	/	Pass
			14	22.70	3.53	/	/	Pass
		8	0	21.67	3.53	/	/	Pass
			4	21.72	3.53	/	/	Pass
			7	21.70	3.53	/	/	Pass
		15	0	21.70	3.53	/	/	Pass
	819	1	0	22.76	3.53	/	/	Pass
			7	22.72	3.53	/	/	Pass
			14	22.69	3.53	/	/	Pass
		8	0	21.75	3.53	/	/	Pass
			4	21.71	3.53	/	/	Pass
			7	21.70	3.53	/	/	Pass
		15	0	21.72	3.53	/	/	Pass
	822.5	1	0	22.74	3.53	/	/	Pass

		8	7	22.74	3.53	/	/	Pass
			14	22.80	3.53	/	/	Pass
			0	21.71	3.53	/	/	Pass
			4	21.71	3.53	/	/	Pass
			7	21.69	3.53	/	/	Pass
		15	0	21.67	3.53	/	/	Pass
16QAM	815.5	1	0	21.62	3.53	/	/	Pass
			7	21.84	3.53	/	/	Pass
			14	21.94	3.53	/	/	Pass
		8	0	20.73	3.53	/	/	Pass
			4	20.67	3.53	/	/	Pass
			7	20.68	3.53	/	/	Pass
		15	0	20.71	3.53	/	/	Pass
	819	1	0	21.83	3.53	/	/	Pass
			7	22.02	3.53	/	/	Pass
			14	21.63	3.53	/	/	Pass
		8	0	20.71	3.53	/	/	Pass
			4	20.74	3.53	/	/	Pass
			7	20.72	3.53	/	/	Pass
		15	0	20.62	3.53	/	/	Pass
	822.5	1	0	21.92	3.53	/	/	Pass
			7	21.66	3.53	/	/	Pass
			14	21.85	3.53	/	/	Pass
		8	0	20.72	3.53	/	/	Pass
			4	20.74	3.53	/	/	Pass
			7	20.68	3.53	/	/	Pass
		15	0	20.68	3.53	/	/	Pass
64QAM	815.5	1	0	21.06	3.53	/	/	Pass
			7	21.10	3.53	/	/	Pass
			14	20.71	3.53	/	/	Pass
		8	0	19.73	3.53	/	/	Pass
			4	19.79	3.53	/	/	Pass
			7	19.69	3.53	/	/	Pass
		15	0	19.72	3.53	/	/	Pass
	819	1	0	21.06	3.53	/	/	Pass
			7	20.79	3.53	/	/	Pass
			14	21.19	3.53	/	/	Pass
		8	0	19.78	3.53	/	/	Pass
			4	19.73	3.53	/	/	Pass
			7	19.72	3.53	/	/	Pass
		15	0	19.65	3.53	/	/	Pass
	822.5	1	0	20.65	3.53	/	/	Pass
			7	21.22	3.53	/	/	Pass
			14	21.11	3.53	/	/	Pass
		8	0	19.69	3.53	/	/	Pass
			4	19.71	3.53	/	/	Pass
			7	19.77	3.53	/	/	Pass
		15	0	19.56	3.53	/	/	Pass
256QAM	815.5	1	0	17.86	3.53	/	/	Pass
			7	17.63	3.53	/	/	Pass
			14	18.09	3.53	/	/	Pass
		8	0	17.87	3.53	/	/	Pass
			4	17.77	3.53	/	/	Pass
			7	17.87	3.53	/	/	Pass
		15	0	17.83	3.53	/	/	Pass
	819	1	0	17.62	3.53	/	/	Pass
			7	18.12	3.53	/	/	Pass
			14	17.93	3.53	/	/	Pass
		8	0	17.79	3.53	/	/	Pass

			4	17.91	3.53	/	/	Pass
			7	17.87	3.53	/	/	Pass
		15	0	17.73	3.53	/	/	Pass
	822.5	1	0	18.04	3.53	/	/	Pass
			7	17.94	3.53	/	/	Pass
			14	17.63	3.53	/	/	Pass
		8	0	17.91	3.53	/	/	Pass
			4	17.89	3.53	/	/	Pass
			7	17.74	3.53	/	/	Pass
		15	0	17.86	3.53	/	/	Pass
Note1: ERP=Conducted Power+Antenna Gain-2.15								

1.1.3 B26a_5MHz_ERP

Band: 26a / Bandwidth: 5MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	816.5	1	0	22.77	3.53	/	/	Pass
			13	22.72	3.53	/	/	Pass
			24	22.76	3.53	/	/	Pass
		12	0	21.78	3.53	/	/	Pass
			6	21.74	3.53	/	/	Pass
			13	21.69	3.53	/	/	Pass
	819	1	0	21.77	3.53	/	/	Pass
			13	22.69	3.53	/	/	Pass
			24	22.72	3.53	/	/	Pass
		12	0	22.79	3.53	/	/	Pass
			6	21.75	3.53	/	/	Pass
			13	21.76	3.53	/	/	Pass
	821.5	1	0	21.71	3.53	/	/	Pass
			13	21.74	3.53	/	/	Pass
			24	21.77	3.53	/	/	Pass
		12	0	22.71	3.53	/	/	Pass
			6	22.79	3.53	/	/	Pass
			13	22.72	3.53	/	/	Pass
16QAM	816.5	1	0	21.90	3.53	/	/	Pass
			13	21.87	3.53	/	/	Pass
			24	21.91	3.53	/	/	Pass
		12	0	20.76	3.53	/	/	Pass
			6	20.68	3.53	/	/	Pass
			13	20.64	3.53	/	/	Pass
	819	1	0	20.78	3.53	/	/	Pass
			13	21.87	3.53	/	/	Pass
			24	21.93	3.53	/	/	Pass
		12	0	21.92	3.53	/	/	Pass
			6	20.65	3.53	/	/	Pass
			13	20.69	3.53	/	/	Pass
	821.5	1	0	20.69	3.53	/	/	Pass
			13	20.72	3.53	/	/	Pass
			24	21.92	3.53	/	/	Pass
		12	0	21.97	3.53	/	/	Pass
			6	21.88	3.53	/	/	Pass
			13	20.62	3.53	/	/	Pass

			13	20.65	3.53	/	/	Pass		
		25	0	20.76	3.53	/	/	Pass		
64QAM	816.5	1	0	20.77	3.53	/	/	Pass		
			13	20.99	3.53	/	/	Pass		
			24	21.21	3.53	/	/	Pass		
			0	19.69	3.53	/	/	Pass		
		12	6	19.69	3.53	/	/	Pass		
			13	19.71	3.53	/	/	Pass		
			25	0	19.73	3.53	/	/	Pass	
		819	1	0	20.95	3.53	/	/	Pass	
				13	21.21	3.53	/	/	Pass	
	24			20.82	3.53	/	/	Pass		
	0			19.69	3.53	/	/	Pass		
	12		6	19.79	3.53	/	/	Pass		
			13	19.60	3.53	/	/	Pass		
			25	0	19.72	3.53	/	/	Pass	
	821.5		1	0	21.22	3.53	/	/	Pass	
				13	20.81	3.53	/	/	Pass	
		24		20.99	3.53	/	/	Pass		
		0		19.74	3.53	/	/	Pass		
		12	6	19.63	3.53	/	/	Pass		
			13	19.67	3.53	/	/	Pass		
			25	0	19.66	3.53	/	/	Pass	
		256QAM	816.5	1	0	18.05	3.53	/	/	Pass
					13	17.96	3.53	/	/	Pass
24	17.67				3.53	/	/	Pass		
12	0			17.91	3.53	/	/	Pass		
	6			17.87	3.53	/	/	Pass		
	13			17.71	3.53	/	/	Pass		
25	0			17.87	3.53	/	/	Pass		
819	1		0	17.96	3.53	/	/	Pass		
			13	17.66	3.53	/	/	Pass		
			24	18.08	3.53	/	/	Pass		
	12		0	17.87	3.53	/	/	Pass		
			6	17.79	3.53	/	/	Pass		
			13	17.82	3.53	/	/	Pass		
	25		0	17.86	3.53	/	/	Pass		
821.5	1		0	17.66	3.53	/	/	Pass		
			13	18.08	3.53	/	/	Pass		
			24	17.94	3.53	/	/	Pass		
	12		0	17.76	3.53	/	/	Pass		
			6	17.86	3.53	/	/	Pass		
			13	17.82	3.53	/	/	Pass		
	25		0	17.83	3.53	/	/	Pass		
	Note1: ERP=Conducted Power+Antenna Gain-2.15									

1.1.4 B26a_10MHz_ERP

Band: 26a / Bandwidth: 10MHz / NTV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	819	1	0	22.68	3.53	/	/	Pass
			25	22.77	3.53	/	/	Pass
			49	22.77	3.53	/	/	Pass
		25	0	21.77	3.53	/	/	Pass
			13	21.74	3.53	/	/	Pass
			25	21.75	3.53	/	/	Pass

		50	0	21.80	3.53	/	/	Pass
16QAM	819	1	0	21.88	3.53	/	/	Pass
			25	21.66	3.53	/	/	Pass
			49	21.80	3.53	/	/	Pass
			0	20.82	3.53	/	/	Pass
		25	13	20.72	3.53	/	/	Pass
			25	20.75	3.53	/	/	Pass
			50	0	20.79	3.53	/	/
64QAM	819	1	0	20.62	3.53	/	/	Pass
			25	21.24	3.53	/	/	Pass
			49	21.08	3.53	/	/	Pass
		25	0	19.63	3.53	/	/	Pass
			13	19.74	3.53	/	/	Pass
			25	19.73	3.53	/	/	Pass
		50	0	19.67	3.53	/	/	Pass
256QAM	819	1	0	18.04	3.53	/	/	Pass
			25	17.94	3.53	/	/	Pass
			49	17.66	3.53	/	/	Pass
		25	0	17.87	3.53	/	/	Pass
			13	17.89	3.53	/	/	Pass
			25	17.86	3.53	/	/	Pass
		50	0	17.89	3.53	/	/	Pass
Note1: ERP=Conducted Power+Antenna Gain-2.15								

2. Field Strength of Spurious Radiation

Test Band = LTE_26 (814~824) _TM1

Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1812.5	54.10	-46.60	25.45	-62.31	-13.00	49.31	Horizontal
2	1937.5	56.86	-46.46	25.48	-59.38	-13.00	46.38	Horizontal
3	2062.5	52.36	-46.33	26.43	-62.80	-13.00	49.80	Horizontal
4	3187.5	50.01	-44.73	28.48	-61.50	-13.00	48.50	Horizontal
5	6521.5	43.33	-39.96	34.39	-57.50	-13.00	44.50	Horizontal
6	9965.5	40.57	-34.96	38.67	-50.98	-13.00	37.98	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1127.5	47.27	-47.28	24.41	-70.86	-13.00	57.86	Vertical
2	1937.5	49.42	-46.46	25.48	-66.82	-13.00	53.82	Vertical
3	3187.5	50.40	-44.73	28.48	-61.11	-13.00	48.11	Vertical
4	4607	45.88	-42.95	30.11	-62.22	-13.00	49.22	Vertical
5	6788	43.31	-39.13	35.35	-55.73	-13.00	42.73	Vertical
6	9516	41.51	-35.08	37.80	-51.03	-13.00	38.03	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

---End of Attachment---