



Report No.: SUCR240400008901

Rev.: 01

Page: 1 of 28

Appendix B.3

WCDMA Band V



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Report No.: SUCR240400008901

Rev.: 01

Page: 2 of 28

1. Effective (Isotropic) Radiated Power Output Data

1.1 Band V_ERP

1.1.1 Test Result

Band	Channel	Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band V	4132	23.47	24.64	38.45	PASS
Band V	4182	24.17	25.34	38.45	PASS
Band V	4233	23.39	24.56	38.45	PASS



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Report No.: SUCR240400008901

Rev.: 01

Page: 3 of 28

2. Frequency Stability

2.1 Band V

2.1.1 Test Result

Band V							
Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
RMC	826.4	20	3.135	0.416	0.0005	-2.5 to 2.5	Pass
			3.7	0.656	0.0008	-2.5 to 2.5	Pass
			4.4	0.443	0.0005	-2.5 to 2.5	Pass
		-30	3.7	0.758	0.0009	-2.5 to 2.5	Pass
		-20	3.7	0.439	0.0005	-2.5 to 2.5	Pass
		-10	3.7	0.404	0.0005	-2.5 to 2.5	Pass
		0	3.7	0.482	0.0006	-2.5 to 2.5	Pass
		10	3.7	0.821	0.0010	-2.5 to 2.5	Pass
		30	3.7	0.717	0.0009	-2.5 to 2.5	Pass
		40	3.7	0.758	0.0009	-2.5 to 2.5	Pass
		50	3.7	0.796	0.0010	-2.5 to 2.5	Pass
	836.6	20	3.135	-0.244	-0.0003	-2.5 to 2.5	Pass
			3.7	-0.331	-0.0004	-2.5 to 2.5	Pass
			4.4	-0.479	-0.0006	-2.5 to 2.5	Pass
		-30	3.7	-0.122	-0.0001	-2.5 to 2.5	Pass
		-20	3.7	-0.237	-0.0003	-2.5 to 2.5	Pass
		-10	3.7	-0.407	-0.0005	-2.5 to 2.5	Pass
		0	3.7	-0.047	-0.0001	-2.5 to 2.5	Pass
		10	3.7	-0.435	-0.0005	-2.5 to 2.5	Pass
		30	3.7	-0.377	-0.0005	-2.5 to 2.5	Pass
		40	3.7	0.063	0.0001	-2.5 to 2.5	Pass
		50	3.7	-0.348	-0.0004	-2.5 to 2.5	Pass
	846.6	20	3.135	-1.120	-0.0013	-2.5 to 2.5	Pass
			3.7	-1.113	-0.0013	-2.5 to 2.5	Pass
			4.4	-1.285	-0.0015	-2.5 to 2.5	Pass
		-30	3.7	-1.043	-0.0012	-2.5 to 2.5	Pass
		-20	3.7	-1.195	-0.0014	-2.5 to 2.5	Pass
		-10	3.7	-1.072	-0.0013	-2.5 to 2.5	Pass
		0	3.7	-1.053	-0.0012	-2.5 to 2.5	Pass
		10	3.7	-1.111	-0.0013	-2.5 to 2.5	Pass
		30	3.7	-1.551	-0.0018	-2.5 to 2.5	Pass
		40	3.7	-1.281	-0.0015	-2.5 to 2.5	Pass
		50	3.7	-1.082	-0.0013	-2.5 to 2.5	Pass



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Report No.: SUCR240400008901

Rev.: 01

Page: 4 of 28

3. 99% & 26dB Bandwidth

3.1 Band V_OBW

3.1.1 Test Result

Band V						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	826.4	4.146	/	Pass
			836.6	4.139	/	Pass
			846.6	4.144	/	Pass



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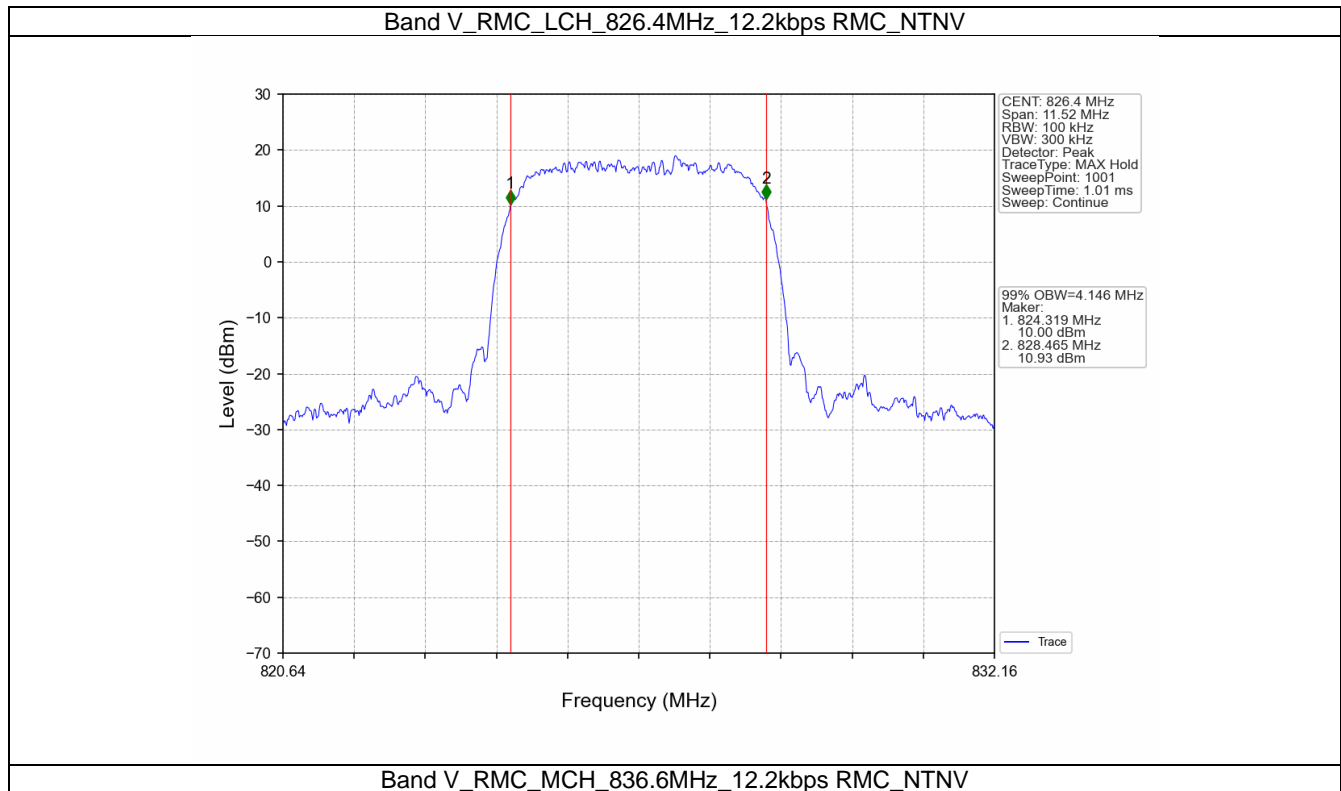
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Rev.: 01

Page: 5 of 28

3.1.2 Test Graph



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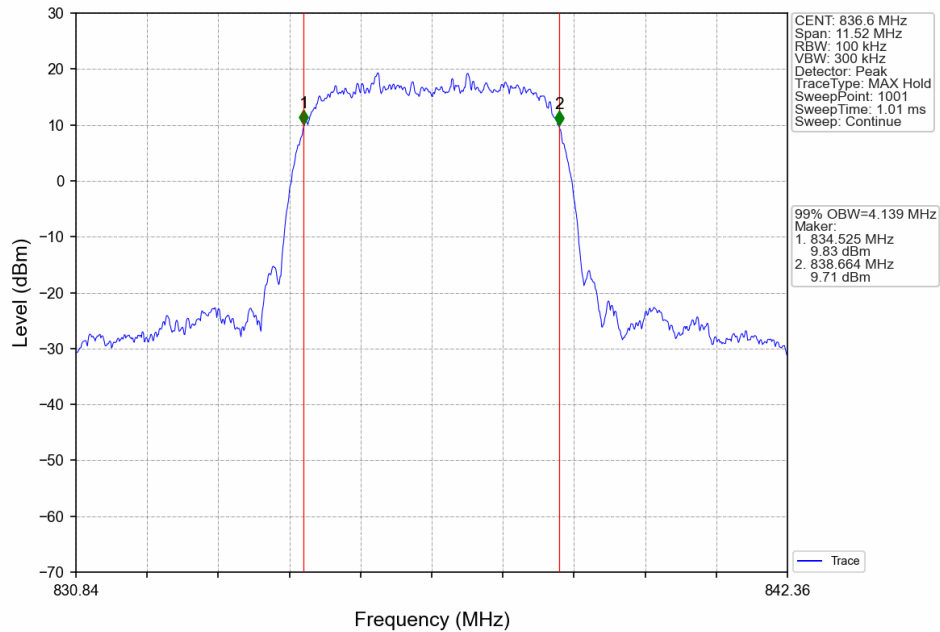
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Rev.: 01

Page: 6 of 28



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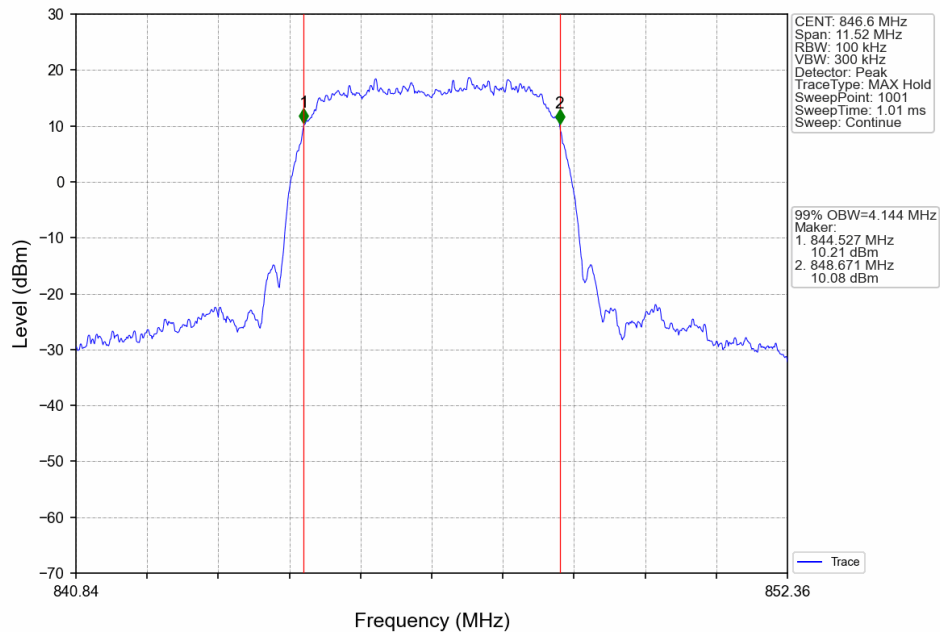
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Rev.: 01

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Band V_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV



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Report No.: SUCR240400008901

Rev.: 01

Page: 8 of 28

3.2 Band V_XDB

3.2.1 Test Result

Band V					
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)	
	Network	Subset		Result	Limit
NTNV	RMC	12.2kbps RMC	826.4	4.730	/
			836.6	4.713	/
			846.6	4.733	/
					Pass
					Pass
					Pass



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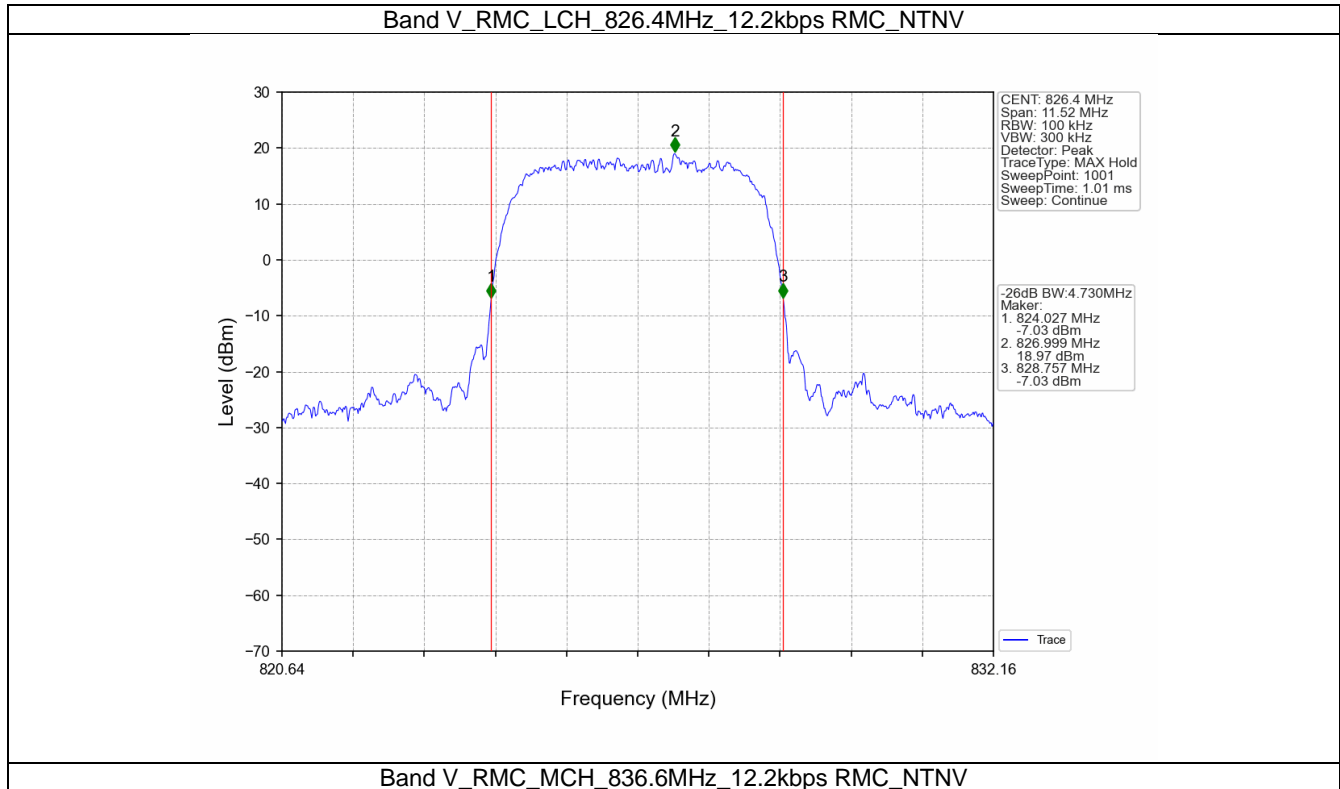
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3.2.2 Test Graph



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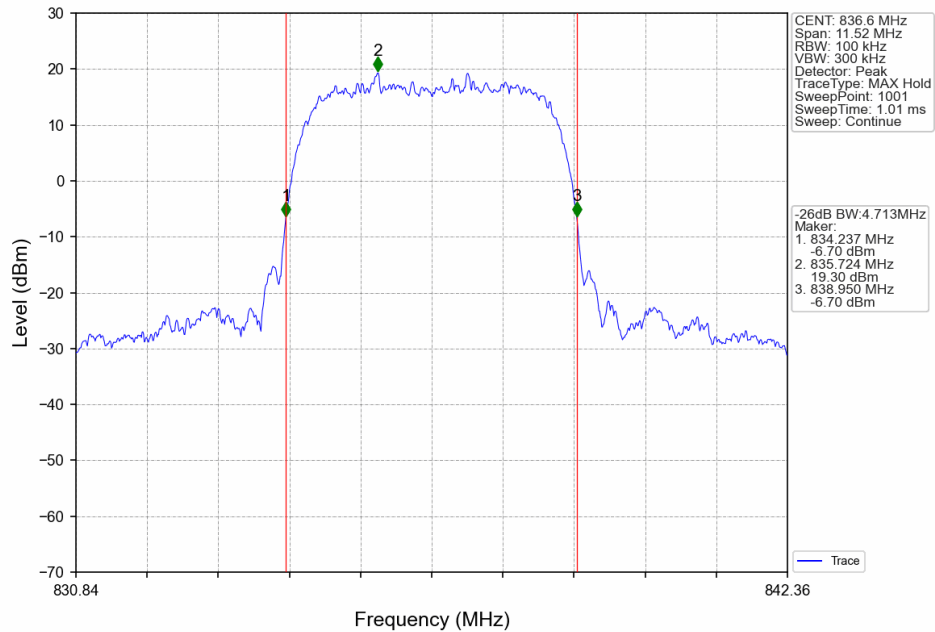
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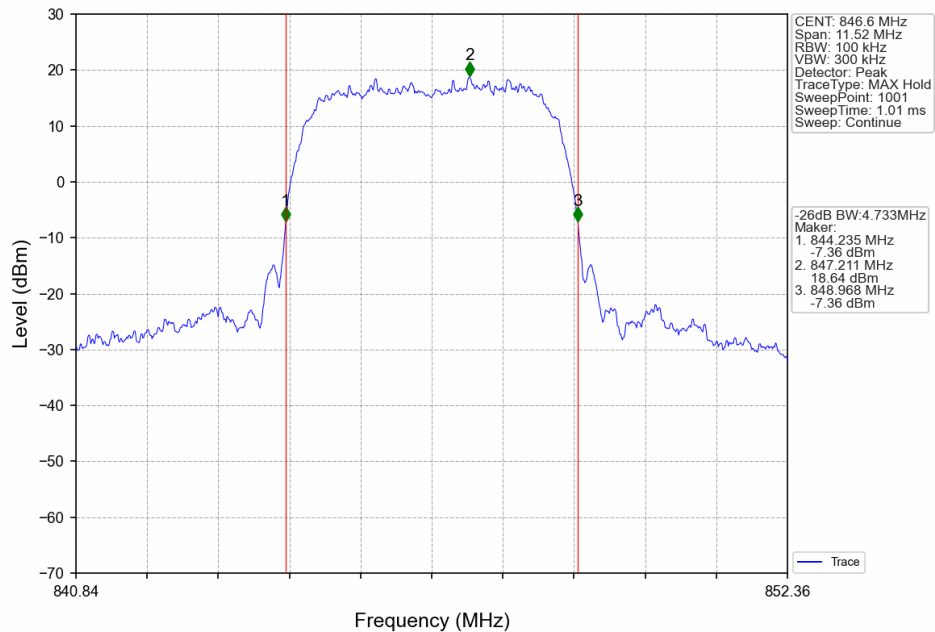
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Rev.: 01

Page: 11 of 28

Band V_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV



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Page: 12 of 28

4. Peak-Average Ratio

4.1 Band V

4.1.1 Test Result

Band V						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	826.4	2.90	<=13	Pass
			836.6	2.84	<=13	Pass
			846.6	3.04	<=13	Pass



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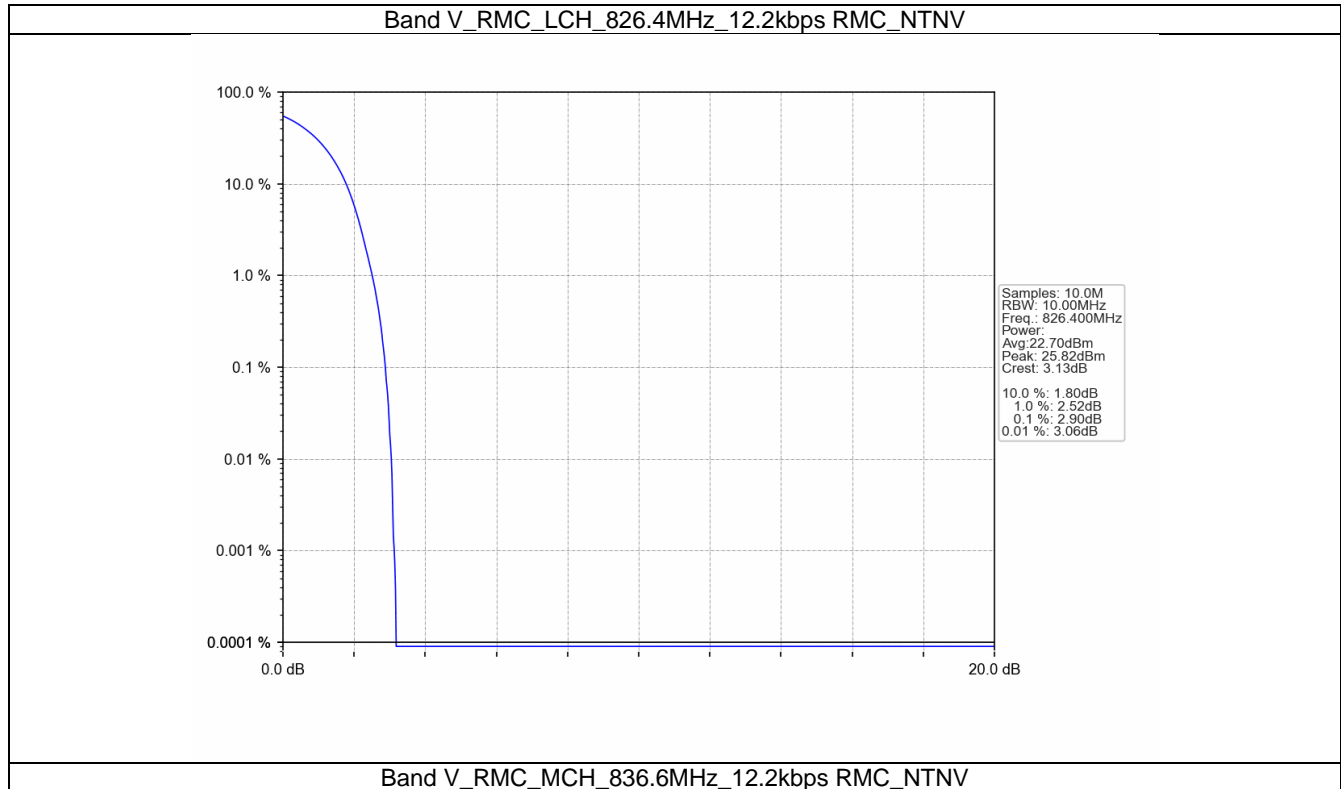
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Report No.: SUCR240400008901

Rev.: 01

Page: 13 of 28

4.1.2 Test Graph



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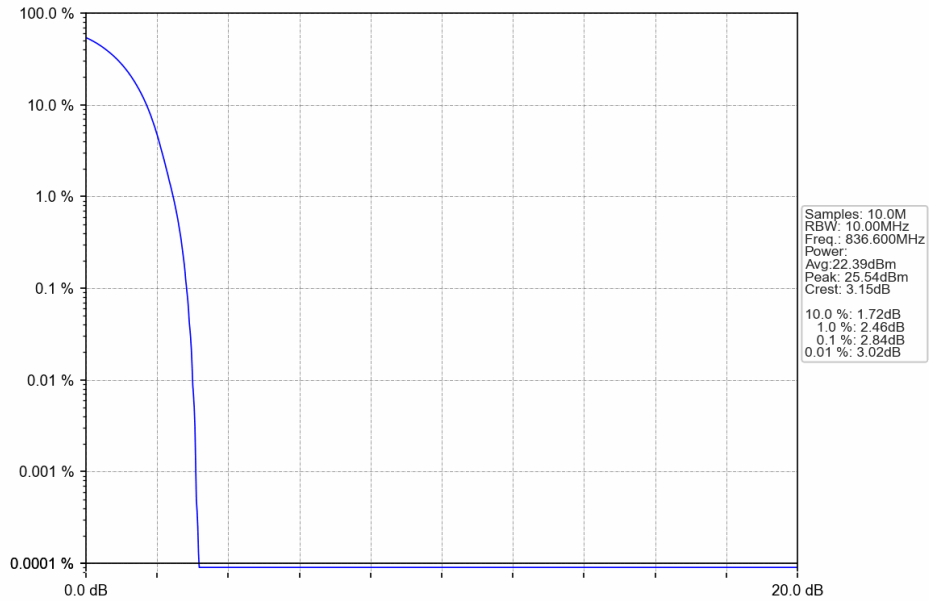
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Report No.: SUCR240400008901

Rev.: 01

Page: 14 of 28



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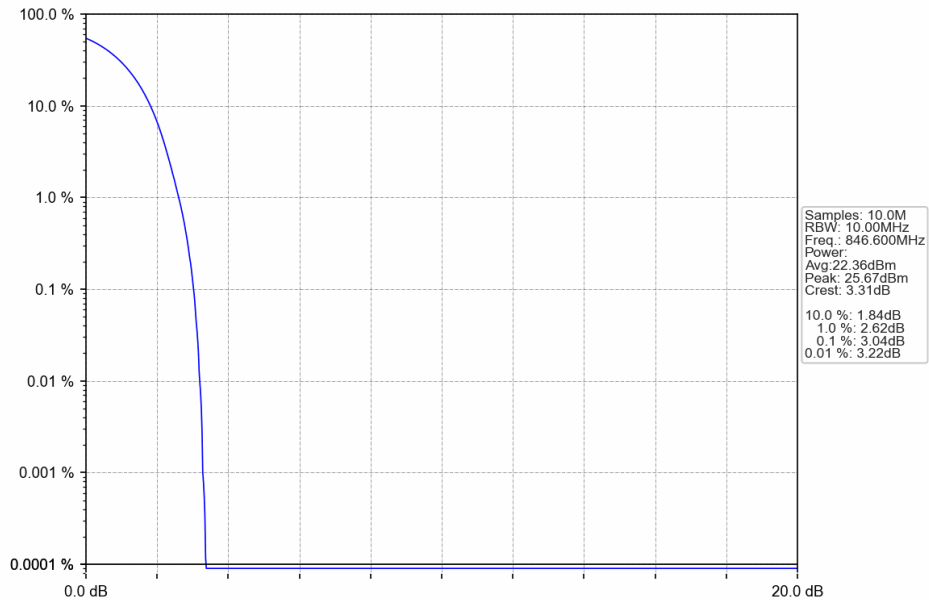
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Report No.: SUCR240400008901

Rev.: 01

Page: 15 of 28

Band V_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV



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Report No.: SUCR240400008901

Rev.: 01

Page: 16 of 28

5. Spurious Emission & Band Edges

5.1 Band V

5.1.1 Test Result

Band V					
ENV	Mode		Frequency (MHz)	Spurious Emission	
	Network	Subset		Result	Limit
NTNV	RMC	12.2kbps RMC	826.4	Refer To Test Graph	Pass
			836.6	Refer To Test Graph	Pass
			846.6	Refer To Test Graph	Pass



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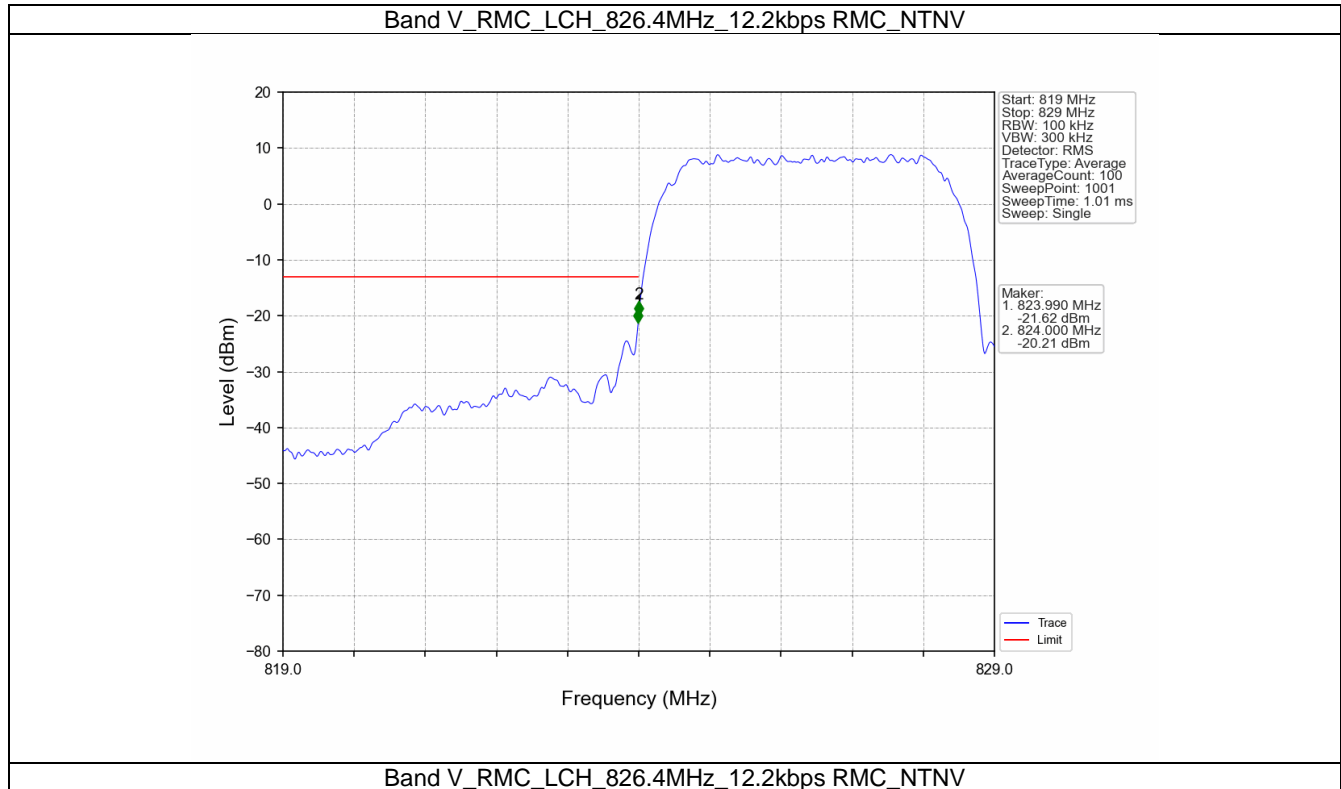
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Rev.: 01

Page: 17 of 28

5.1.2 Test Graph



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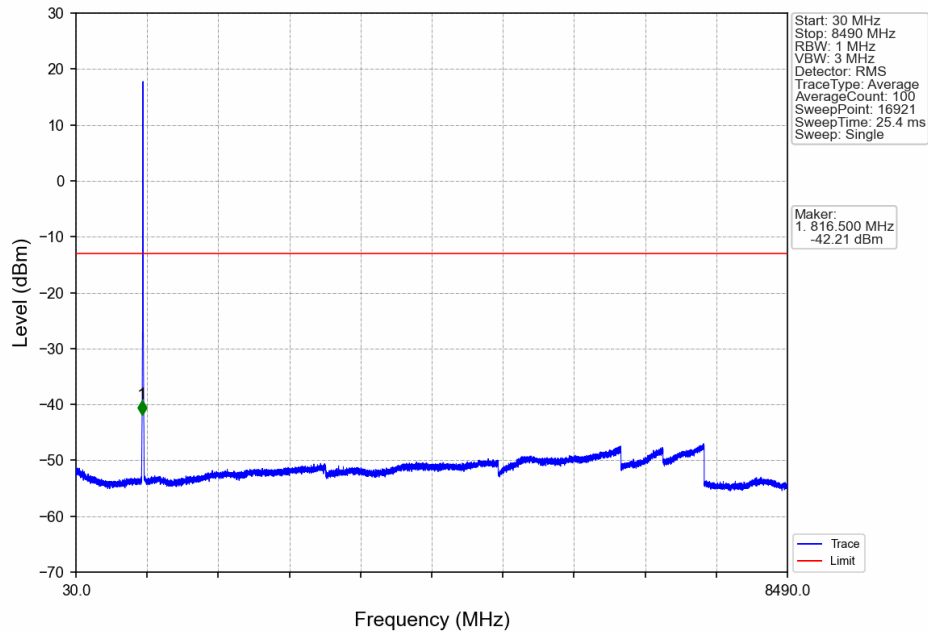
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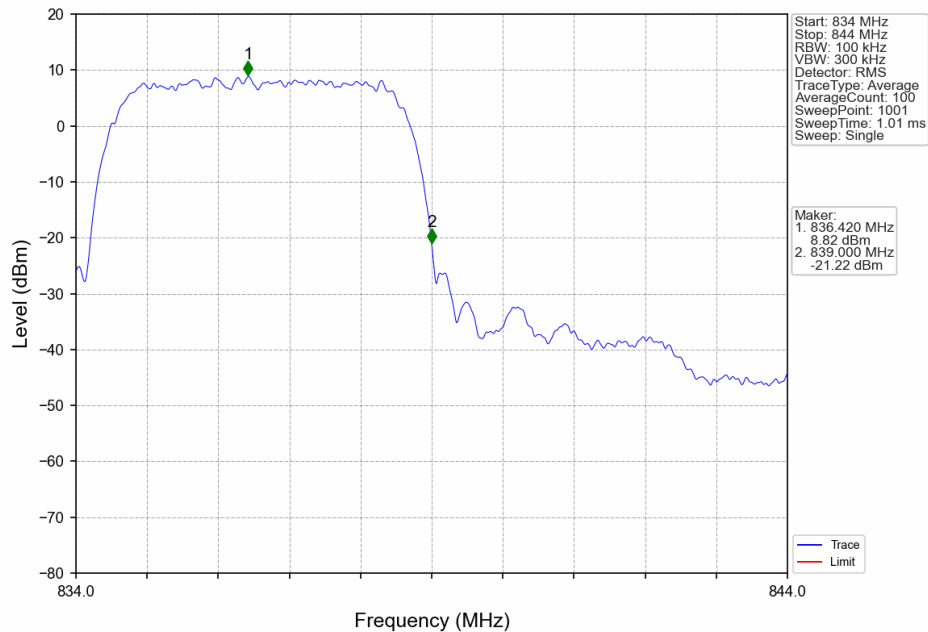
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Report No.: SUCR240400008901

Rev.: 01

Page: 19 of 28

Band V_RMC_MCH_836.6MHz_12.2kbps RMC_NTNV



Band V_RMC_MCH_836.6MHz_12.2kbps RMC_NTNV



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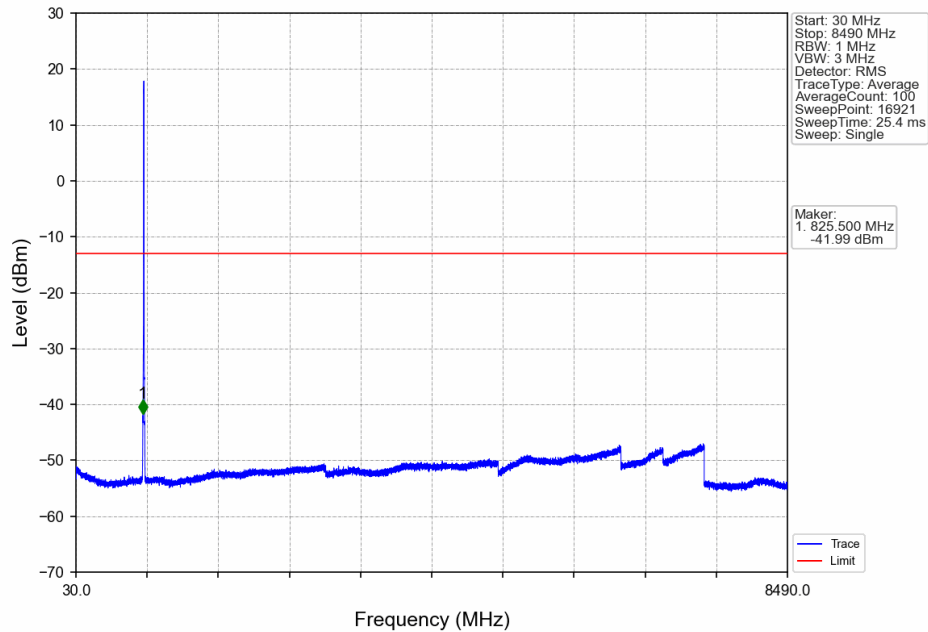
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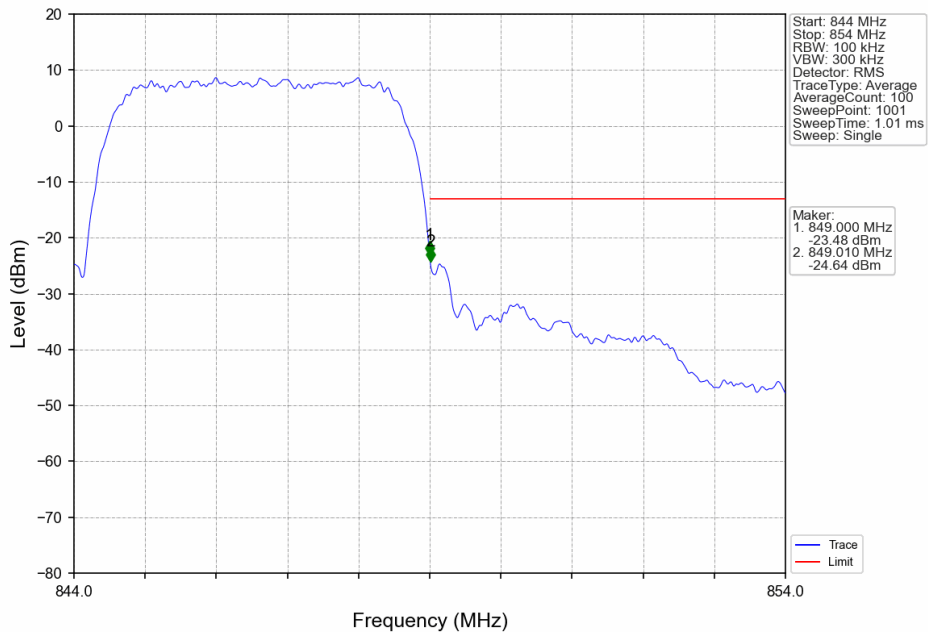
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Report No.: SUCR240400008901

Rev.: 01

Page: 21 of 28

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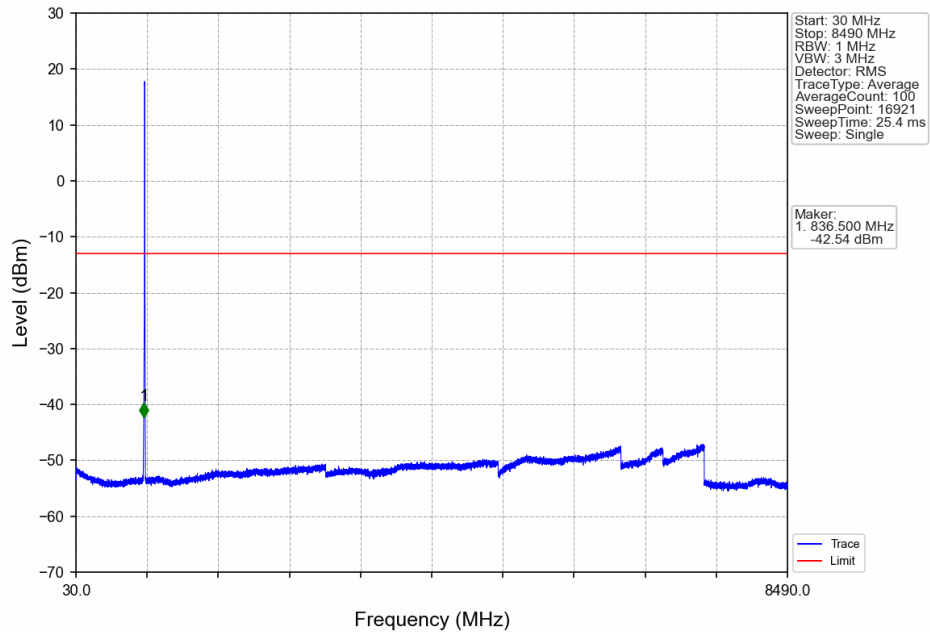
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 Rev.: 01
 Page: 23 of 28

6. Field Strength of Spurious Radiation

For report SUCR240400009001:

Test Band = WCDMA_ Band V
Test Channel = LCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1114.5	60.17	-54.02	25.83	-63.28	-13.00	50.28	Horizontal
2	1651.5	55.47	-53.11	25.90	-67.00	-13.00	54.00	Horizontal
3	2476	55.58	-51.87	27.95	-63.60	-13.00	50.60	Horizontal
4	4182	52.17	-47.80	31.36	-59.53	-13.00	46.53	Horizontal
5	5145.5	52.15	-45.11	33.59	-54.63	-13.00	41.63	Horizontal
6	8942.5	49.35	-40.42	38.47	-47.86	-13.00	34.86	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1159	55.32	-53.61	25.85	-67.70	-13.00	54.70	Vertical
2	1875	54.91	-53.09	25.85	-67.59	-13.00	54.59	Vertical
3	2746.5	53.36	-51.18	28.69	-64.39	-13.00	51.39	Vertical
4	3734.5	53.19	-49.21	30.44	-60.84	-13.00	47.84	Vertical
5	5072.5	52.10	-44.65	33.45	-54.36	-13.00	41.36	Vertical
6	7579.5	50.00	-42.17	36.74	-50.69	-13.00	37.69	Vertical



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Report No.: SUCR240400008901

Rev.: 01

Page: 24 of 28

Test Band = WCDMA_ Band V

Test Channel = MCH

Final Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1084	61.17	-54.03	25.77	-62.35	-13.00	49.35	Horizontal
2	1671	55.93	-53.16	25.86	-66.63	-13.00	53.63	Horizontal
3	2512	56.10	-51.76	28.07	-62.85	-13.00	49.85	Horizontal
4	4257	52.02	-47.45	32.06	-58.63	-13.00	45.63	Horizontal
5	7019	50.70	-43.41	36.42	-51.55	-13.00	38.55	Horizontal
6	9480	48.95	-39.47	39.12	-46.66	-13.00	33.66	Horizontal

Final Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1766	57.80	-53.19	25.56	-65.09	-13.00	52.09	Vertical
2	2389	54.27	-52.16	27.82	-65.33	-13.00	52.33	Vertical
3	3044	52.84	-50.36	29.89	-62.89	-13.00	49.89	Vertical
4	4517.5	52.19	-46.34	31.91	-57.50	-13.00	44.50	Vertical
5	6091.5	50.64	-44.28	34.48	-54.42	-13.00	41.42	Vertical
6	8450	50.07	-41.61	38.00	-48.80	-13.00	35.80	Vertical



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Report No.: SUCR240400008901
 Rev.: 01
 Page: 25 of 28

Test Band = WCDMA_Band V
Test Channel = HCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1113.5	60.53	-54.03	25.83	-62.93	-13.00	49.93	Horizontal
2	1691.5	56.12	-53.21	25.82	-66.53	-13.00	53.53	Horizontal
3	2537.5	56.37	-51.66	28.23	-62.32	-13.00	49.32	Horizontal
4	3984.5	52.14	-48.16	31.04	-60.24	-13.00	47.24	Horizontal
5	6075.5	50.41	-44.05	34.45	-54.45	-13.00	41.45	Horizontal
6	9089.5	48.67	-39.73	38.70	-47.62	-13.00	34.62	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1779	61.75	-53.12	25.62	-61.01	-13.00	48.01	Vertical
2	2196.5	54.18	-52.54	27.68	-65.94	-13.00	52.94	Vertical
3	3306.5	52.82	-49.82	30.57	-61.69	-13.00	48.69	Vertical
4	4835	51.83	-44.71	32.68	-55.46	-13.00	42.46	Vertical
5	5885	50.91	-44.46	34.24	-54.57	-13.00	41.57	Vertical
6	8540.5	49.44	-40.84	38.87	-47.79	-13.00	34.79	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



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Report No.: SUCR240400008901

Rev.: 01

Page: 26 of 28

For report SUCR240400008901:

Test Band = WCDMA_Band V_TM1

Test Channel = LCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1098	49.74	-47.18	24.29	-68.41	-13.00	55.41	Horizontal
2	1654	49.51	-46.86	25.47	-67.14	-13.00	54.14	Horizontal
3	2482	48.72	-45.68	27.73	-64.49	-13.00	51.49	Horizontal
4	4268	45.58	-43.02	29.69	-63.01	-13.00	50.01	Horizontal
5	6505	44.52	-40.07	34.32	-56.49	-13.00	43.49	Horizontal
6	9198.5	41.81	-35.56	37.49	-51.52	-13.00	38.52	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1128.5	51.42	-47.28	24.41	-66.71	-13.00	53.71	Vertical
2	1654	48.24	-46.86	25.47	-68.41	-13.00	55.41	Vertical
3	2482.5	49.97	-45.69	27.73	-63.25	-13.00	50.25	Vertical
4	4796.5	45.44	-42.83	30.78	-61.87	-13.00	48.87	Vertical
5	7668	43.12	-37.48	36.67	-52.95	-13.00	39.95	Vertical
6	9939	41.81	-34.94	38.64	-49.75	-13.00	36.75	Vertical



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Report No.: SUCR240400008901

Rev.: 01

Page: 27 of 28

Test Band = WCDMA_ Band V _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	1115	49.76	-47.23	24.36	-68.37	-13.00	55.37	Horizontal
2	1671.5	48.42	-46.84	25.33	-68.35	-13.00	55.35	Horizontal
3	2512	49.03	-45.71	27.80	-64.14	-13.00	51.14	Horizontal
4	4289	45.43	-42.76	29.57	-63.02	-13.00	50.02	Horizontal
5	7428.5	43.22	-37.92	36.76	-53.20	-13.00	40.20	Horizontal
6	9558	42.31	-35.29	37.80	-50.44	-13.00	37.44	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1126	52.11	-47.27	24.40	-66.02	-13.00	53.02	Vertical
2	1671	48.92	-46.84	25.33	-67.85	-13.00	54.85	Vertical
3	2506	50.18	-45.75	27.80	-63.03	-13.00	50.03	Vertical
4	4257	45.70	-43.15	29.76	-62.95	-13.00	49.95	Vertical
5	6822.5	43.62	-39.21	35.49	-55.36	-13.00	42.36	Vertical
6	9483	42.20	-35.02	37.70	-50.38	-13.00	37.38	Vertical



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Report No.: SUCR240400008901
Rev.: 01
Page: 28 of 28

Test Band = WCDMA_Band V_TM1
Test Channel = HCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1102	49.75	-47.19	24.31	-68.39	-13.00	55.39	Horizontal
2	1728.5	48.04	-46.74	25.04	-68.92	-13.00	55.92	Horizontal
3	2537.5	47.99	-45.54	27.80	-65.01	-13.00	52.01	Horizontal
4	4027	46.30	-43.79	29.69	-63.06	-13.00	50.06	Horizontal
5	7217	43.27	-38.38	36.50	-53.87	-13.00	40.87	Horizontal
6	9930.5	41.82	-34.97	38.63	-49.78	-13.00	36.78	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1127.5	51.48	-47.28	24.41	-66.65	-13.00	53.65	Vertical
2	1691	49.61	-46.80	25.17	-67.28	-13.00	54.28	Vertical
3	2799	46.62	-45.15	28.30	-65.49	-13.00	52.49	Vertical
4	4601.5	45.83	-42.94	30.10	-62.27	-13.00	49.27	Vertical
5	7034	43.84	-38.91	36.01	-54.32	-13.00	41.32	Vertical
6	9776.5	41.56	-35.07	38.41	-50.36	-13.00	37.36	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---



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