

Report No.: SEWM2311000475RG01

Rev.: 01

Page: 1 of 26

# Appendix B.3

## WCDMA Band V



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Report No.: SEWM2311000475RG01  
 Rev.: 01  
 Page: 2 of 26

### Effective (Isotropic) Radiated Power Output Data

Band V\_ERP Ant0

#### Test Result

Band V								
ENV	Mode		Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
	Network	Subset				Result	Limit	
NTNV	RMC	12.2kbps RMC	826.4	23.96	-1.60	20.21	<=38.45	Pass
			836.6	23.76	-1.60	20.01	<=38.45	Pass
			846.6	23.83	-1.60	20.08	<=38.45	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15



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Report No.: SEWM2311000475RG01  
 Rev.: 01  
 Page: 3 of 26

## Peak-Average Ratio

Band V

Test Result

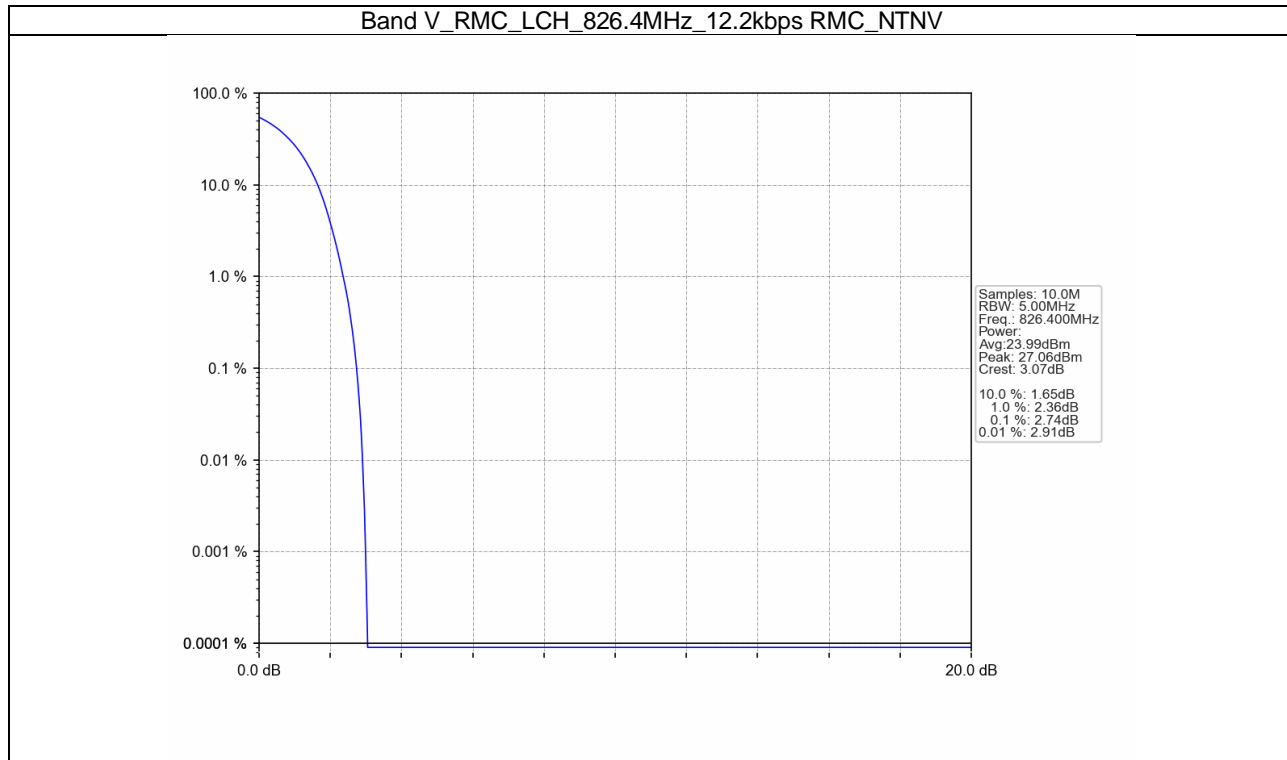
Band V						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	826.4	2.74	<=13	Pass
			836.6	2.70	<=13	Pass
			846.6	2.71	<=13	Pass



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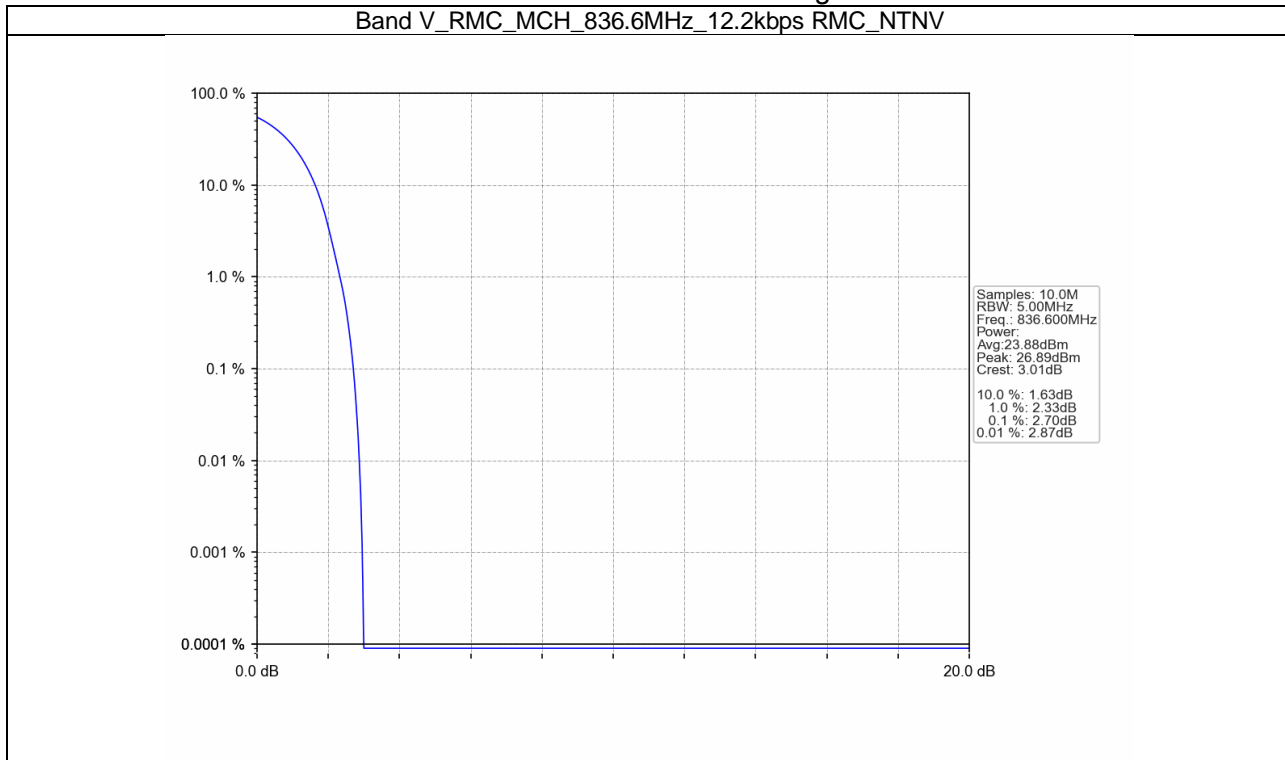
Test Graph



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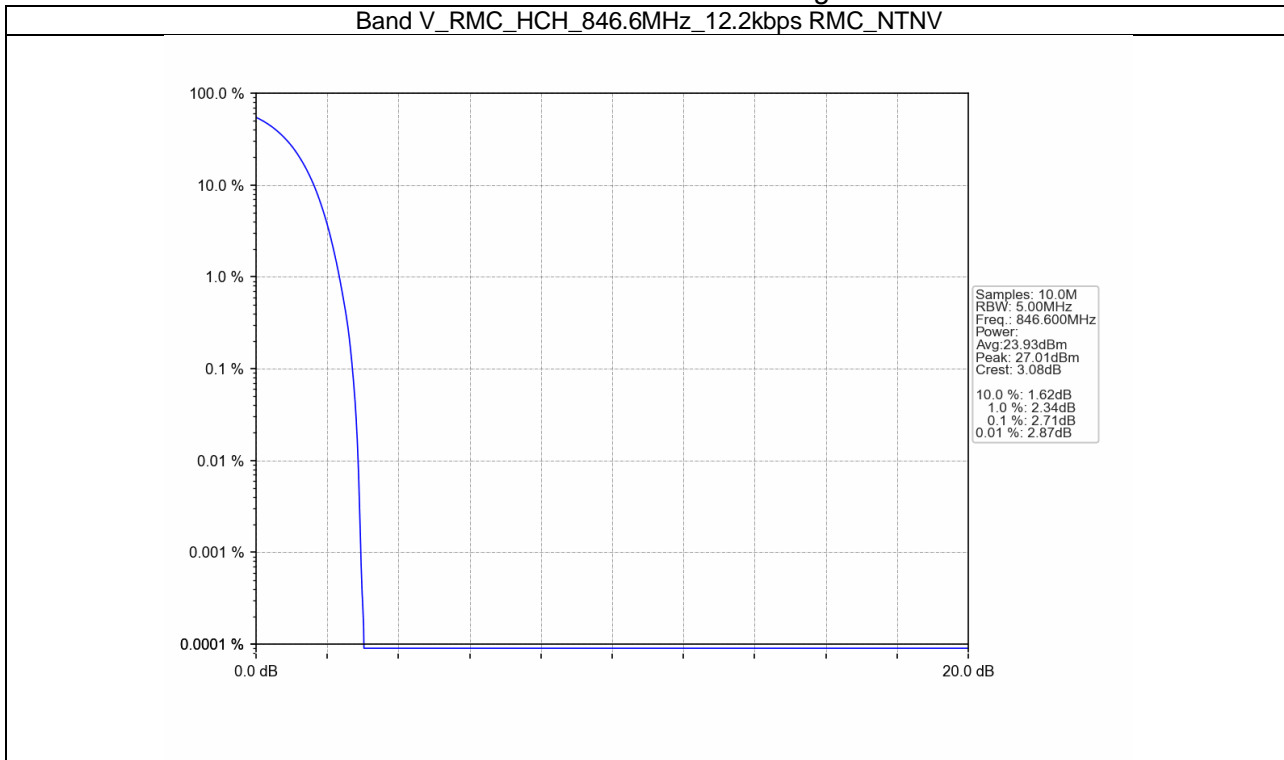


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Band V\_RMC\_HCH\_846.6MHz\_12.2kbps RMC\_NTNV



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Report No.: SEWM2311000475RG01

Rev.: 01

Page: 7 of 26

### 99% & 26dB Bandwidth

Band V\_OBW

#### Test Result

Band V						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	826.4	4.163	/	Pass
			836.6	4.158	/	Pass
			846.6	4.141	/	Pass



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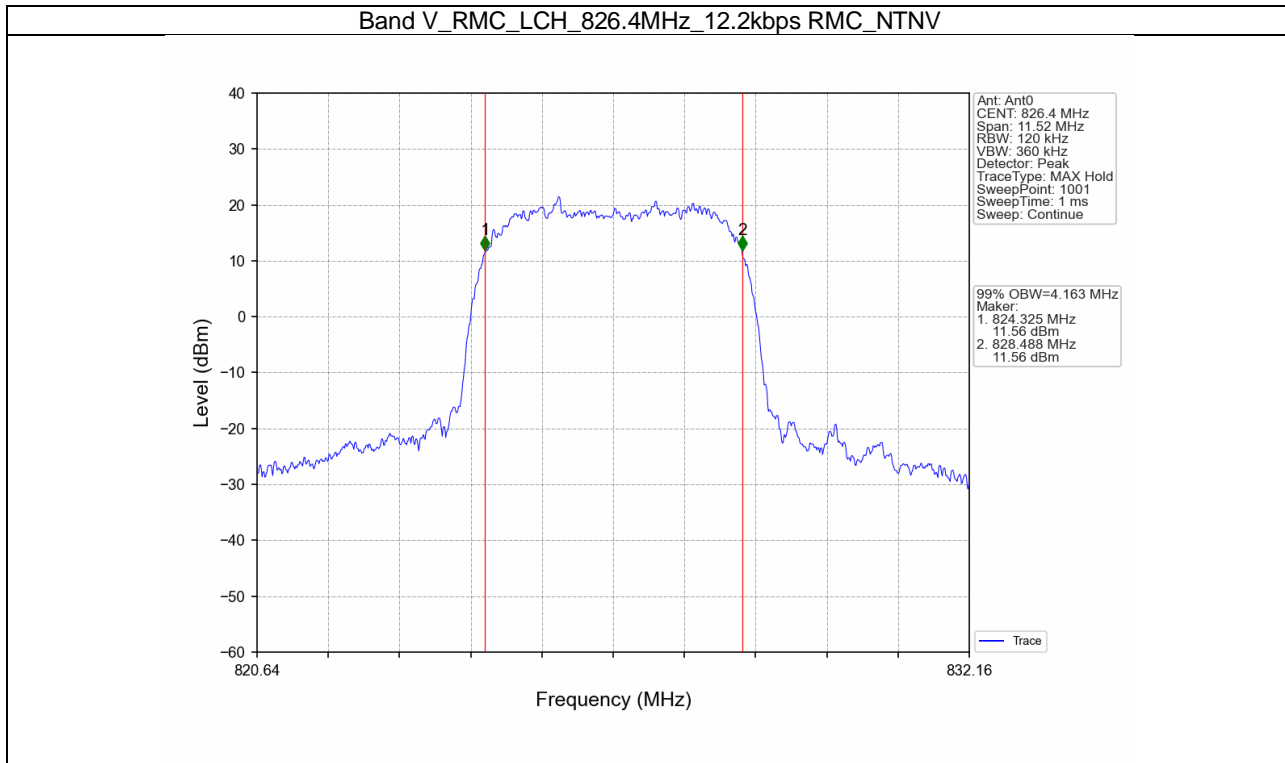
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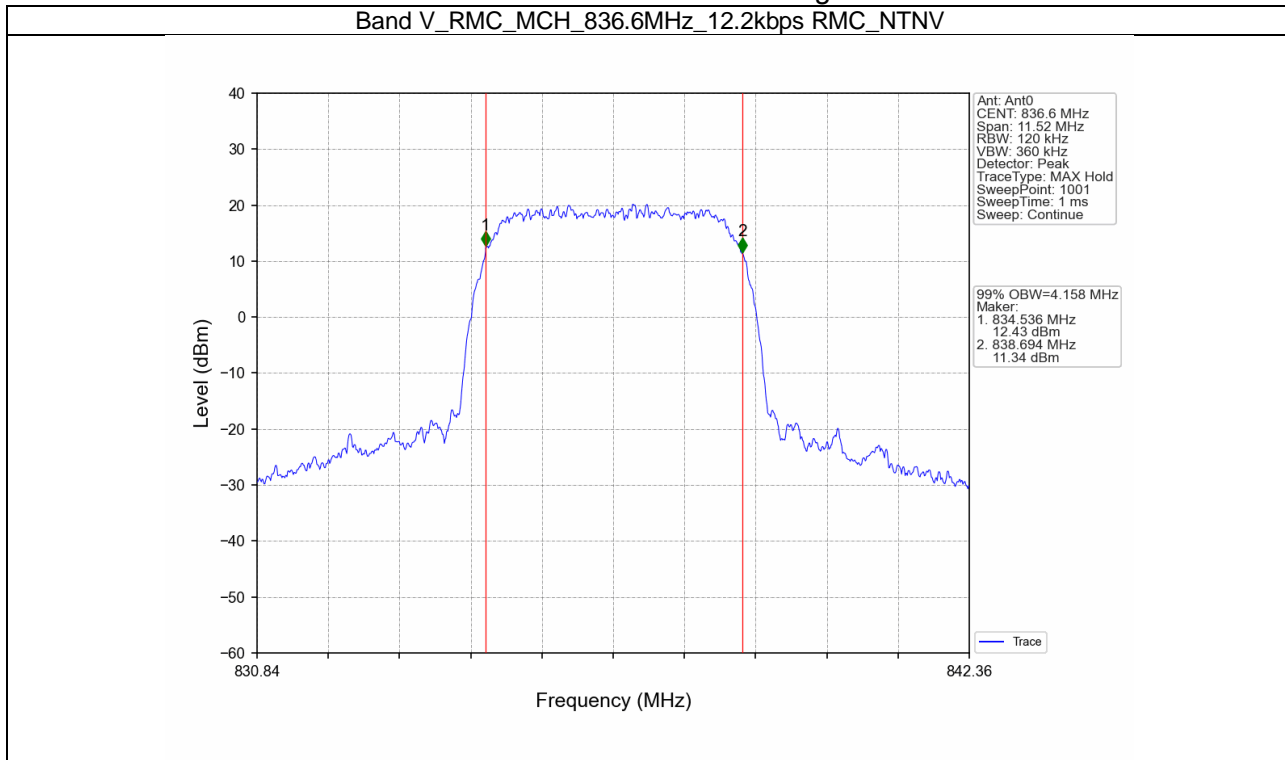
Test Graph



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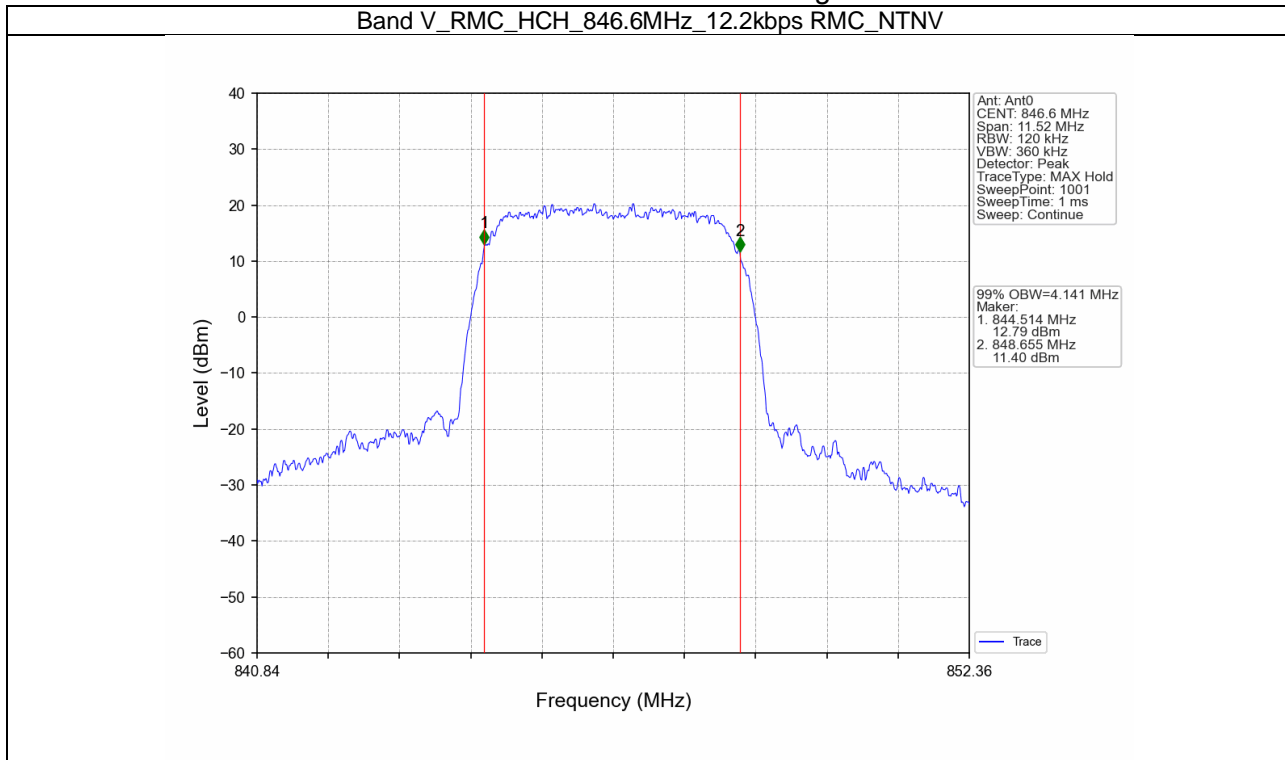




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 Page: 11 of 26

Band V\_XDB

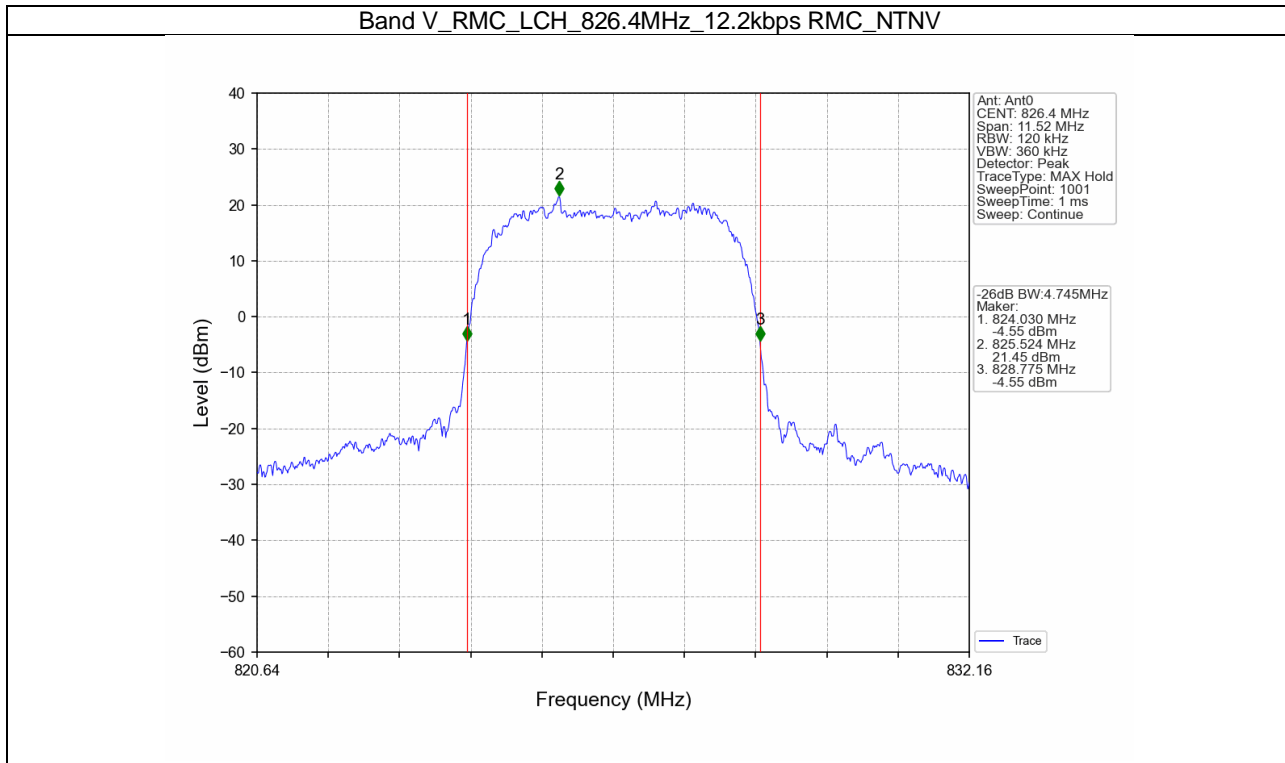
Test Result

Band V						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	826.4	4.745	/	Pass
			836.6	4.784	/	Pass
			846.6	4.763	/	Pass



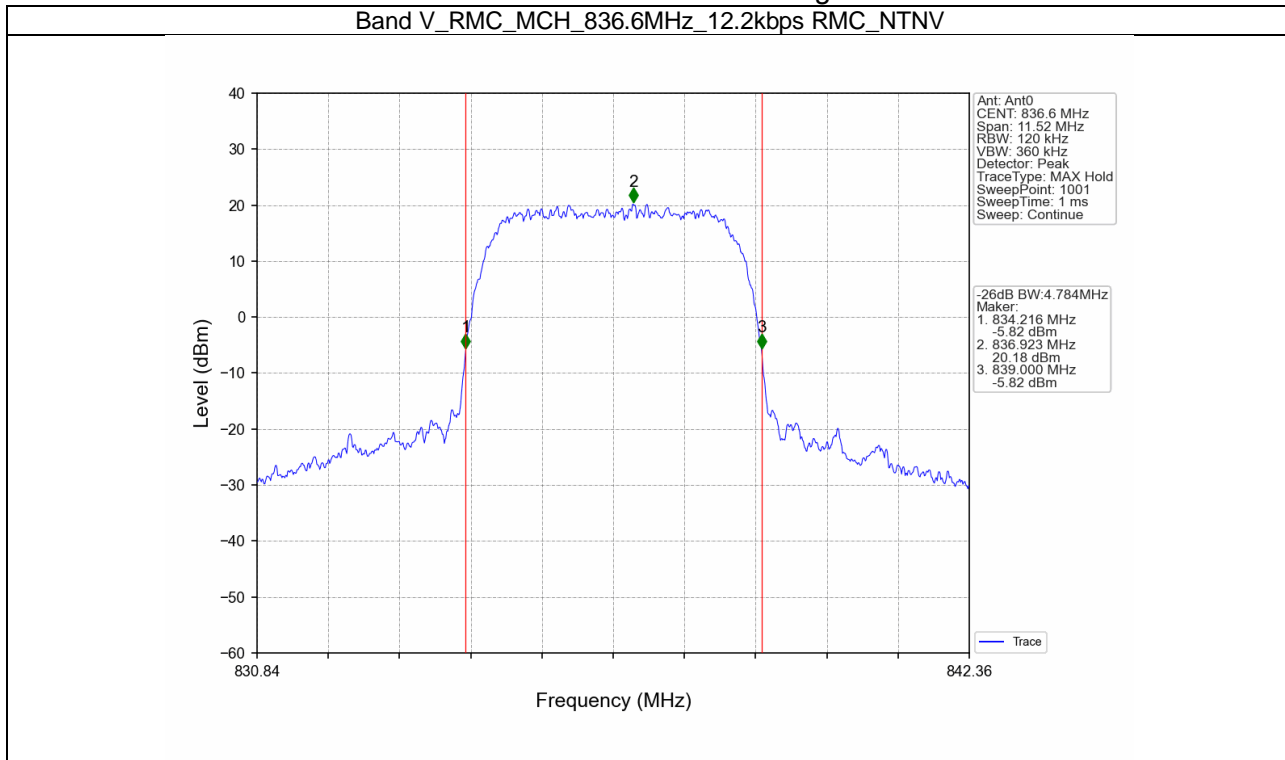
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Test Graph



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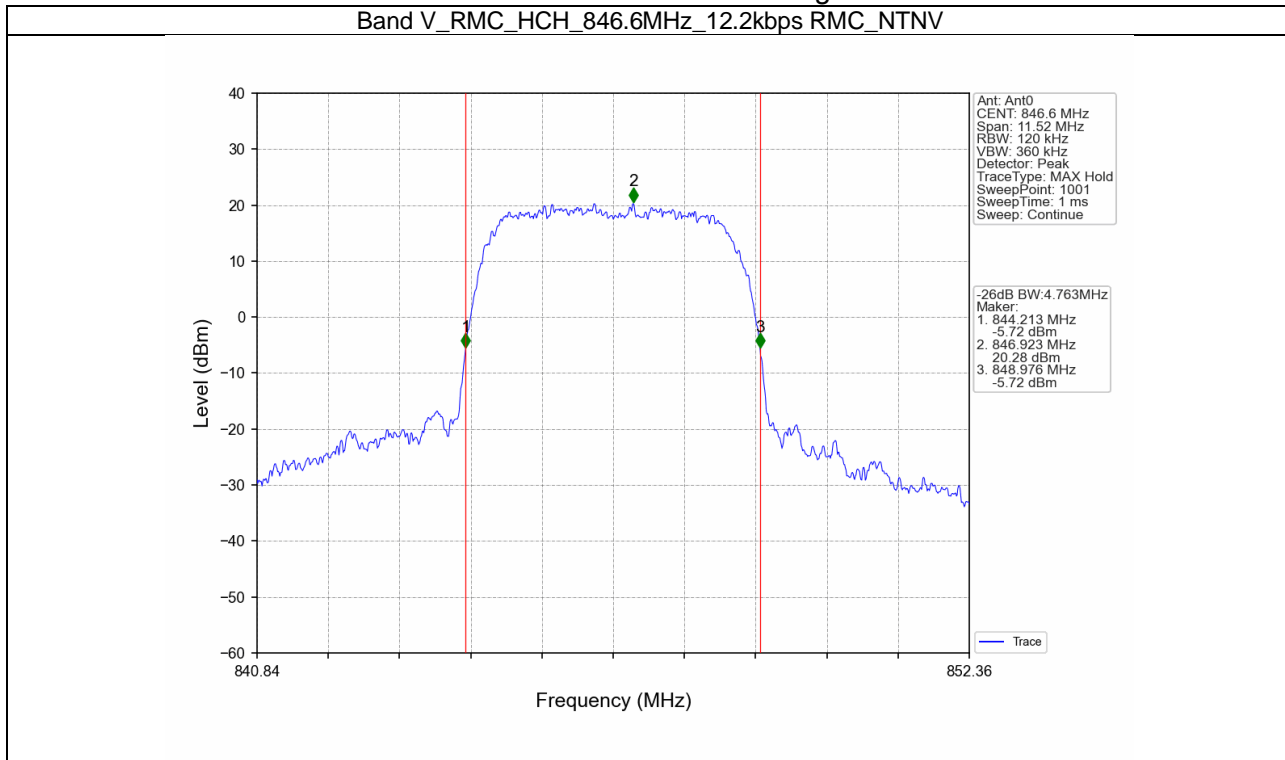
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Report No.: SEWM2311000475RG01

Rev.: 01

Page: 15 of 26

## Spurious Emission & Band Edge

Band V

Test Result

Band V						
ENV	Mode		Frequency (MHz)	Spurious Emission		Verdict
	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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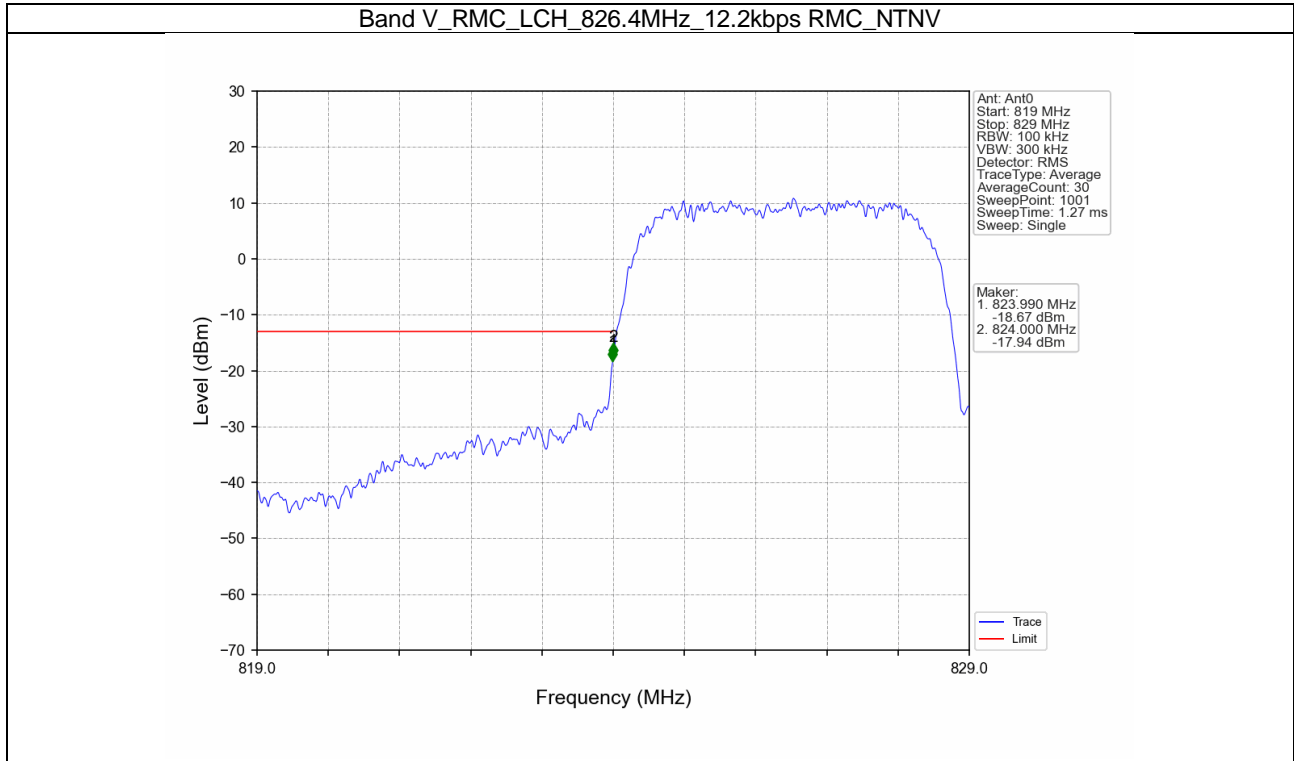
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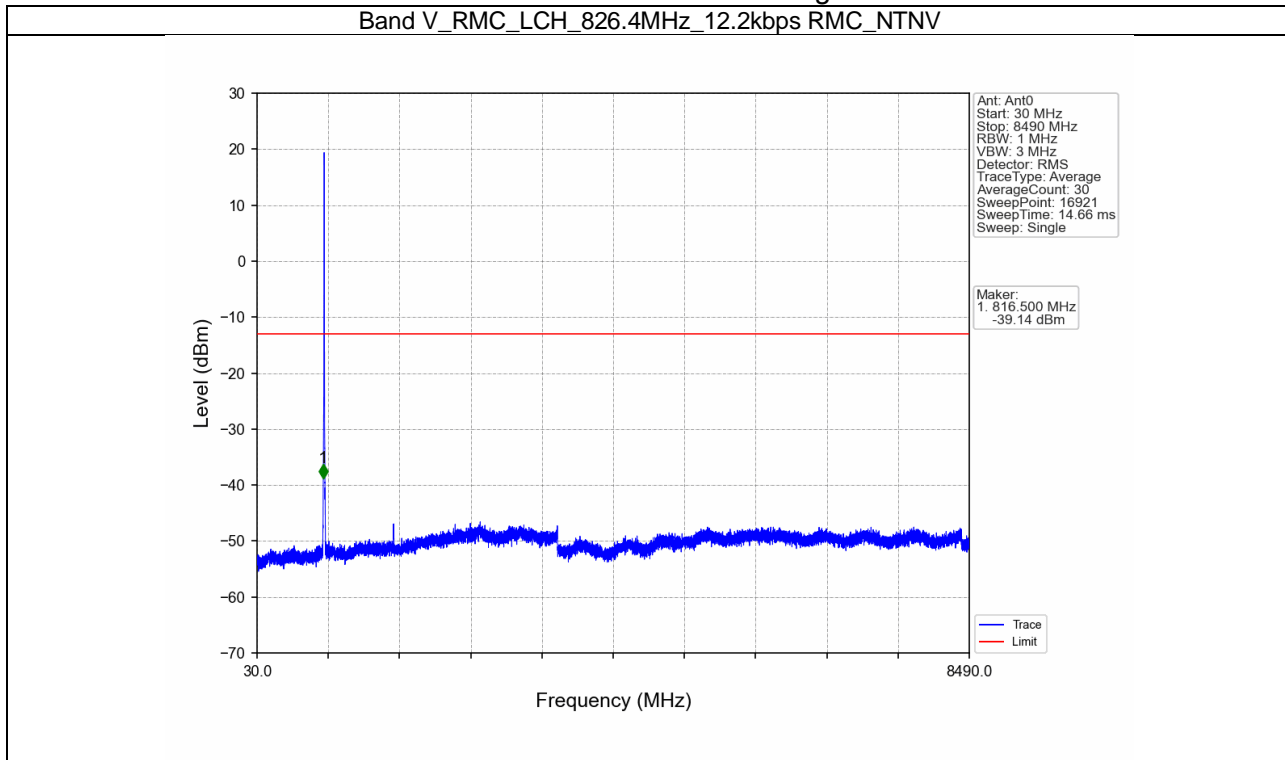
Test Graph



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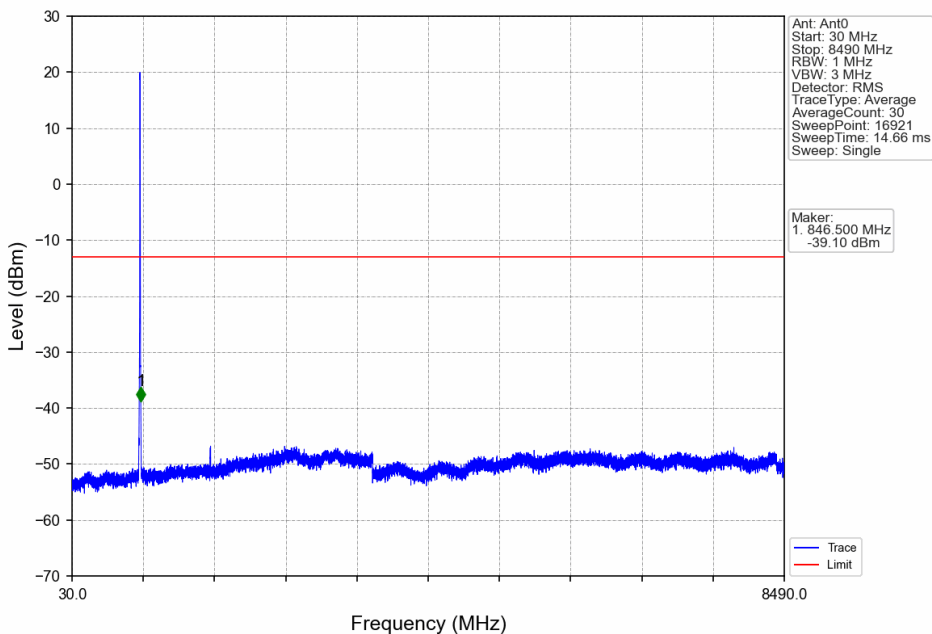


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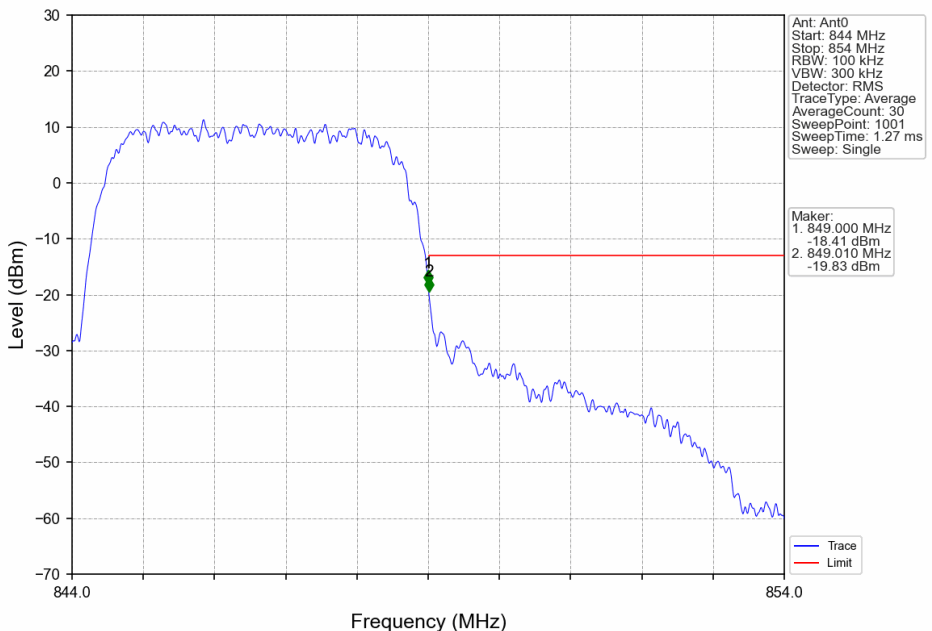
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Band V\_RMC\_MCH\_836.6MHz\_12.2kbps RMC\_NTNV



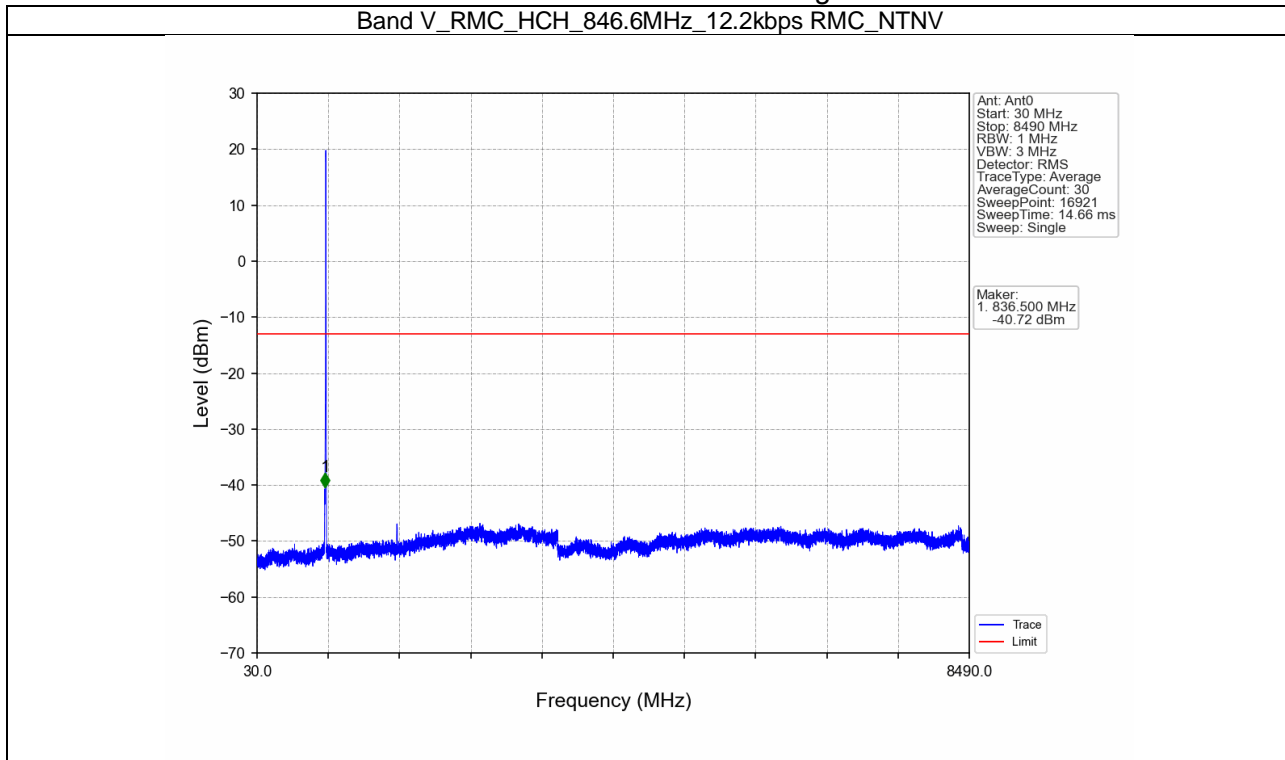
Band V\_RMC\_HCH\_846.6MHz\_12.2kbps RMC\_NTNV



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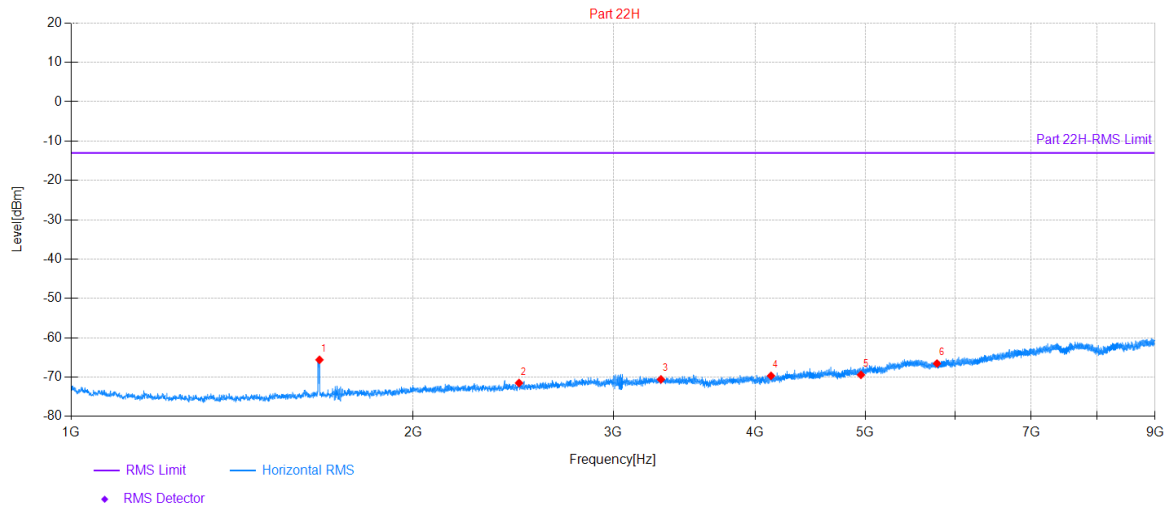
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## Field Strength of Spurious Radiation

Test Band = WCDMA Band V\_ TM1

Test Channel = Low Channel



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1654.2222	54.16	-49.82	25.32	-65.60	-13.00	52.60	Horizontal
2	2479.2	45.51	-49.02	27.28	-71.49	-13.00	58.49	Horizontal
3	3305.6	44.69	-48.63	28.62	-70.58	-13.00	57.58	Horizontal
4	4132	44.25	-48.29	29.64	-69.66	-13.00	56.66	Horizontal
5	4958.4	42.49	-48.05	31.40	-69.42	-13.00	56.42	Horizontal
6	5784.8	43.65	-47.69	32.76	-66.54	-13.00	53.54	Horizontal



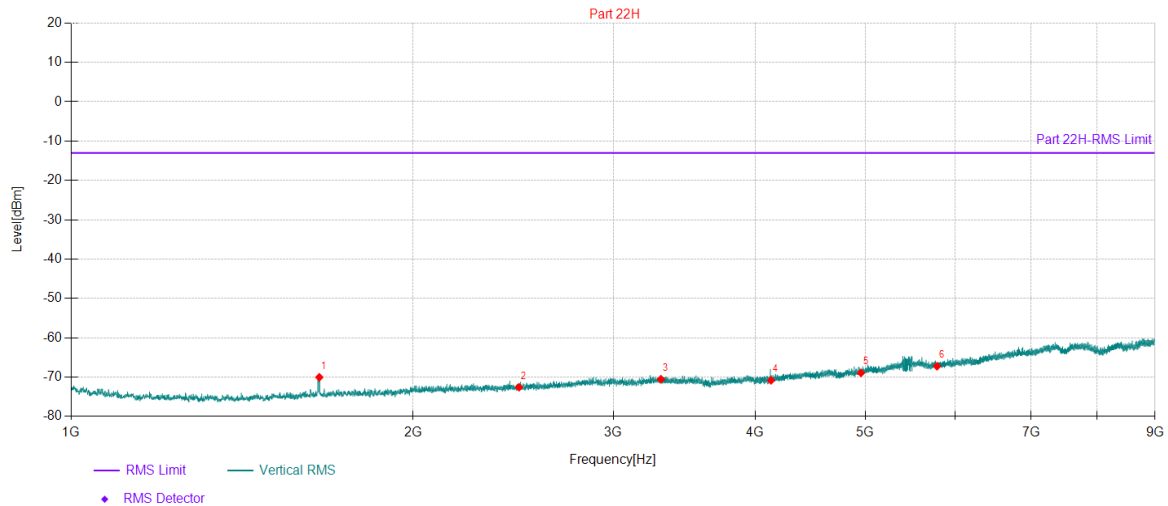
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Test Band = WCDMA Band V\_ TM1

Test Channel = Low Channel



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1653.7778	49.73	-49.82	25.32	-70.03	-13.00	57.03	Vertical
2	2479.2	44.43	-49.02	27.28	-72.57	-13.00	59.57	Vertical
3	3305.6	44.75	-48.63	28.62	-70.52	-13.00	57.52	Vertical
4	4132	43.10	-48.29	29.64	-70.81	-13.00	57.81	Vertical
5	4958.4	42.99	-48.05	31.40	-68.92	-13.00	55.92	Vertical
6	5784.8	42.95	-47.69	32.76	-67.24	-13.00	54.24	Vertical



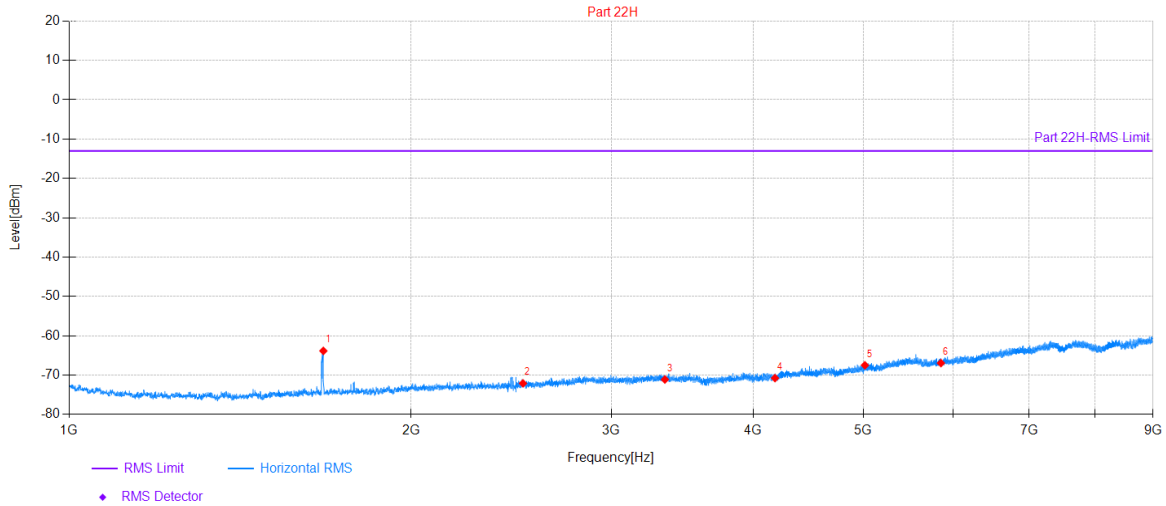
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**Test Band = WCDMA Band V\_ TM1**  
**Test Channel = Mid Channel**



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1674.2222	55.80	-49.77	25.40	-63.84	-13.00	50.84	Horizontal
2	2509.2	44.77	-48.93	27.32	-72.09	-13.00	59.09	Horizontal
3	3345.6	44.17	-48.66	28.64	-71.11	-13.00	58.11	Horizontal
4	4182	43.12	-48.34	29.73	-70.75	-13.00	57.75	Horizontal
5	5018.4	44.18	-47.95	31.54	-67.49	-13.00	54.49	Horizontal
6	5854.8	42.88	-47.33	32.77	-66.94	-13.00	53.94	Horizontal



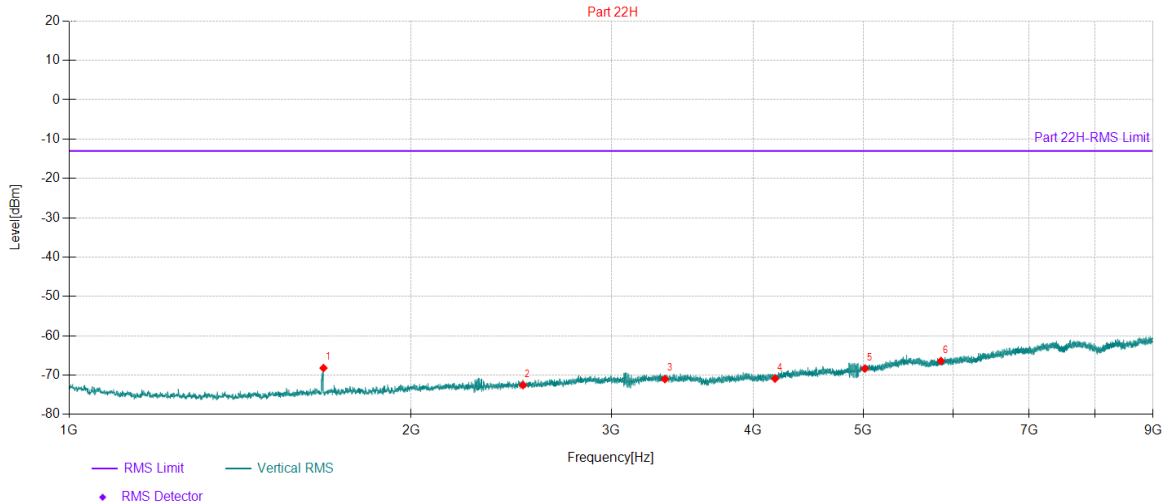
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Test Band = WCDMA Band V\_ TM1  
 Test Channel = Mid Channel



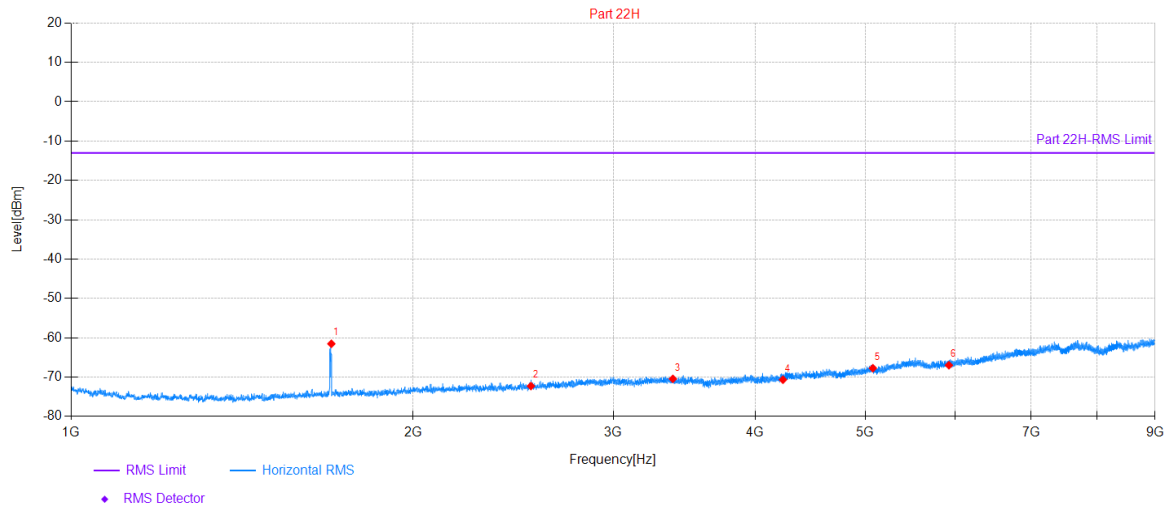
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1674.6667	51.43	-49.77	25.40	-68.20	-13.00	55.20	Vertical
2	2509.2	44.33	-48.93	27.32	-72.53	-13.00	59.53	Vertical
3	3345.6	44.27	-48.66	28.64	-71.01	-13.00	58.01	Vertical
4	4182	42.99	-48.34	29.73	-70.88	-13.00	57.88	Vertical
5	5018.4	43.34	-47.95	31.54	-68.33	-13.00	55.33	Vertical
6	5854.8	43.42	-47.33	32.77	-66.40	-13.00	53.40	Vertical



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Test Band = WCDMA Band V\_ TM1

Test Channel = High Channel



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1694.6667	57.99	-49.73	25.48	-61.52	-13.00	48.52	Horizontal
2	2539.8	44.60	-49.01	27.40	-72.27	-13.00	59.27	Horizontal
3	3386.4	44.85	-48.68	28.65	-70.44	-13.00	57.44	Horizontal
4	4233	43.03	-48.25	29.82	-70.66	-13.00	57.66	Horizontal
5	5079.6	43.77	-47.93	31.69	-67.73	-13.00	54.73	Horizontal
6	5926.2	42.67	-47.17	32.79	-66.98	-13.00	53.98	Horizontal



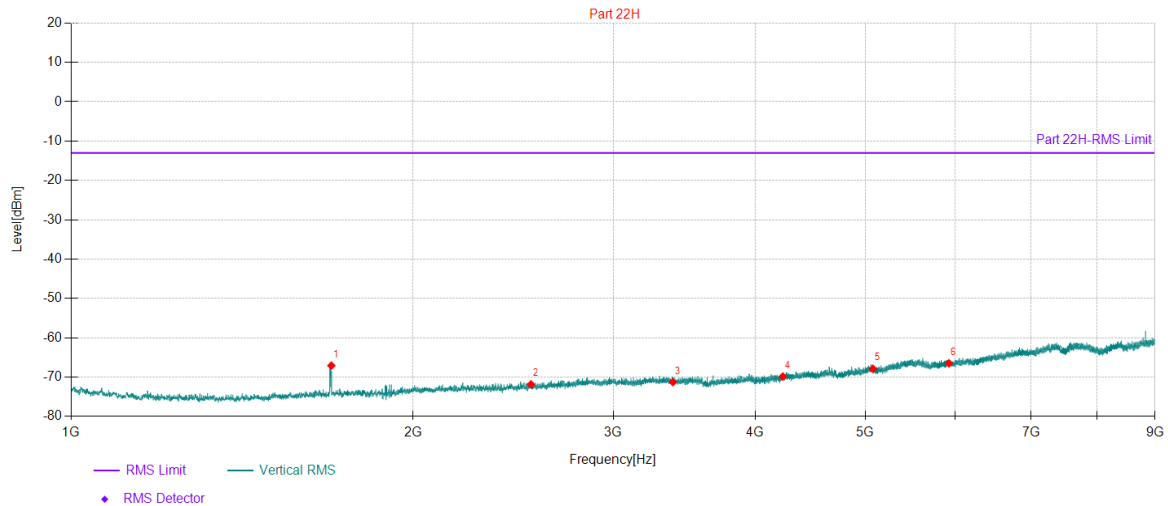
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Test Band = WCDMA Band V\_ TM1

Test Channel = High Channel



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1694.6667	52.44	-49.73	25.48	-67.07	-13.00	54.07	Vertical
2	2539.8	45.03	-49.01	27.40	-71.84	-13.00	58.84	Vertical
3	3386.4	44.02	-48.68	28.65	-71.27	-13.00	58.27	Vertical
4	4233	43.84	-48.25	29.82	-69.85	-13.00	56.85	Vertical
5	5079.6	43.64	-47.93	31.69	-67.86	-13.00	54.86	Vertical
6	5926.2	43.15	-47.17	32.79	-66.50	-13.00	53.50	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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 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000 t (86-512) 62992980 sgs.china@sgs.com



### Frequency Stability

Band V

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	3.4	0.272	0.0003	-2.5 to 2.5	Pass
			3.89	0.250	0.0003	-2.5 to 2.5	Pass
			4.48	0.043	0.0001	-2.5 to 2.5	Pass
		-30	3.89	0.243	0.0003	-2.5 to 2.5	Pass
		-20	3.89	0.107	0.0001	-2.5 to 2.5	Pass
		-10	3.89	0.508	0.0006	-2.5 to 2.5	Pass
		0	3.89	0.315	0.0004	-2.5 to 2.5	Pass
		10	3.89	0.308	0.0004	-2.5 to 2.5	Pass
		30	3.89	-0.021	0.0000	-2.5 to 2.5	Pass
		40	3.89	0.093	0.0001	-2.5 to 2.5	Pass
		50	3.89	0.386	0.0005	-2.5 to 2.5	Pass
		836.6	20	3.4	-1.116	-0.0013	-2.5 to 2.5
	3.89			-0.987	-0.0012	-2.5 to 2.5	Pass
	4.48			-0.858	-0.0010	-2.5 to 2.5	Pass
	-30		3.89	-1.237	-0.0015	-2.5 to 2.5	Pass
	-20		3.89	-0.994	-0.0012	-2.5 to 2.5	Pass
	-10		3.89	-0.823	-0.0010	-2.5 to 2.5	Pass
	0		3.89	-0.687	-0.0008	-2.5 to 2.5	Pass
	10		3.89	-1.187	-0.0014	-2.5 to 2.5	Pass
	30		3.89	-0.966	-0.0012	-2.5 to 2.5	Pass
	40		3.89	-1.152	-0.0014	-2.5 to 2.5	Pass
	50		3.89	-1.109	-0.0013	-2.5 to 2.5	Pass
	846.6		20	3.4	-1.245	-0.0015	-2.5 to 2.5
		3.89		-1.853	-0.0022	-2.5 to 2.5	Pass
		4.48		-1.280	-0.0015	-2.5 to 2.5	Pass
		-30	3.89	-1.688	-0.0020	-2.5 to 2.5	Pass
		-20	3.89	-1.824	-0.0022	-2.5 to 2.5	Pass
		-10	3.89	-1.094	-0.0013	-2.5 to 2.5	Pass
		0	3.89	-2.046	-0.0024	-2.5 to 2.5	Pass
		10	3.89	-1.802	-0.0021	-2.5 to 2.5	Pass
		30	3.89	-1.817	-0.0021	-2.5 to 2.5	Pass
		40	3.89	-0.858	-0.0010	-2.5 to 2.5	Pass
		50	3.89	-1.516	-0.0018	-2.5 to 2.5	Pass

---End of Attachment---



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