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# Appendix B.3

## WCDMA Band V



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## 1. Effective (Isotropic) Radiated Power Output Data

### 1.1 Band V\_ERPAnt0

#### 1.1.1 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	24.24	1.11	23.20	<=38.45	Pass
			836.6	24.30	1.11	23.26	<=38.45	Pass
			846.6	24.34	1.11	23.30	<=38.45	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

## 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	8	8	-4.596	-0.0056	-2.5 to 2.5	Pass
			12	-6.041	-0.0073	-2.5 to 2.5	Pass
			16	-6.523	-0.0079	-2.5 to 2.5	Pass
		-30	12	-7.559	-0.0091	-2.5 to 2.5	Pass
		-20	12	-8.495	-0.0103	-2.5 to 2.5	Pass
		-10	12	-9.896	-0.0120	-2.5 to 2.5	Pass
		0	12	-10.852	-0.0131	-2.5 to 2.5	Pass
		10	12	-11.890	-0.0144	-2.5 to 2.5	Pass
		30	12	-12.382	-0.0150	-2.5 to 2.5	Pass
		40	12	-6.636	-0.0080	-2.5 to 2.5	Pass
		50	12	-4.658	-0.0056	-2.5 to 2.5	Pass
	836.6	8	8	-8.245	-0.0099	-2.5 to 2.5	Pass
			12	-4.910	-0.0059	-2.5 to 2.5	Pass
			16	-5.510	-0.0066	-2.5 to 2.5	Pass
		-30	12	-6.522	-0.0078	-2.5 to 2.5	Pass
		-20	12	-7.716	-0.0092	-2.5 to 2.5	Pass
		-10	12	-8.394	-0.0100	-2.5 to 2.5	Pass
		0	12	-9.256	-0.0111	-2.5 to 2.5	Pass
		10	12	-10.068	-0.0120	-2.5 to 2.5	Pass
		30	12	-11.946	-0.0143	-2.5 to 2.5	Pass
		40	12	-11.074	-0.0132	-2.5 to 2.5	Pass
		50	12	-11.229	-0.0134	-2.5 to 2.5	Pass
	846.6	20	8	-5.301	-0.0063	-2.5 to 2.5	Pass



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			12	-6.168	-0.0073	-2.5 to 2.5	Pass
			16	-7.454	-0.0088	-2.5 to 2.5	Pass
		-30	12	-7.613	-0.0090	-2.5 to 2.5	Pass
		-20	12	-8.551	-0.0101	-2.5 to 2.5	Pass
		-10	12	-9.014	-0.0106	-2.5 to 2.5	Pass
		0	12	-9.264	-0.0109	-2.5 to 2.5	Pass
		10	12	-9.872	-0.0117	-2.5 to 2.5	Pass
		30	12	-10.557	-0.0125	-2.5 to 2.5	Pass
		40	12	-10.231	-0.0121	-2.5 to 2.5	Pass
		50	12	-11.100	-0.0131	-2.5 to 2.5	Pass

### 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	4.177	/	Pass
			836.6	4.173	/	Pass
			846.6	4.159	/	Pass



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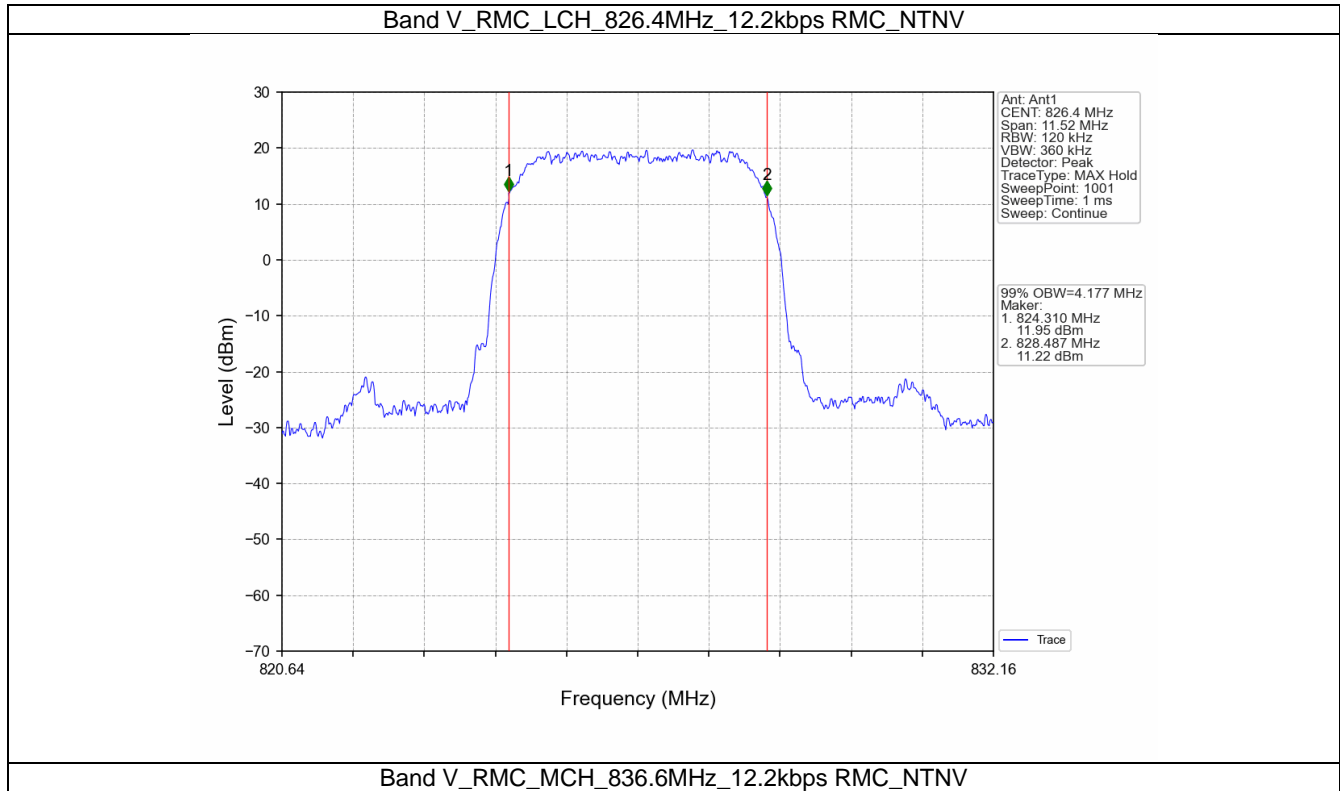
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### 3.1.2 Test Graph



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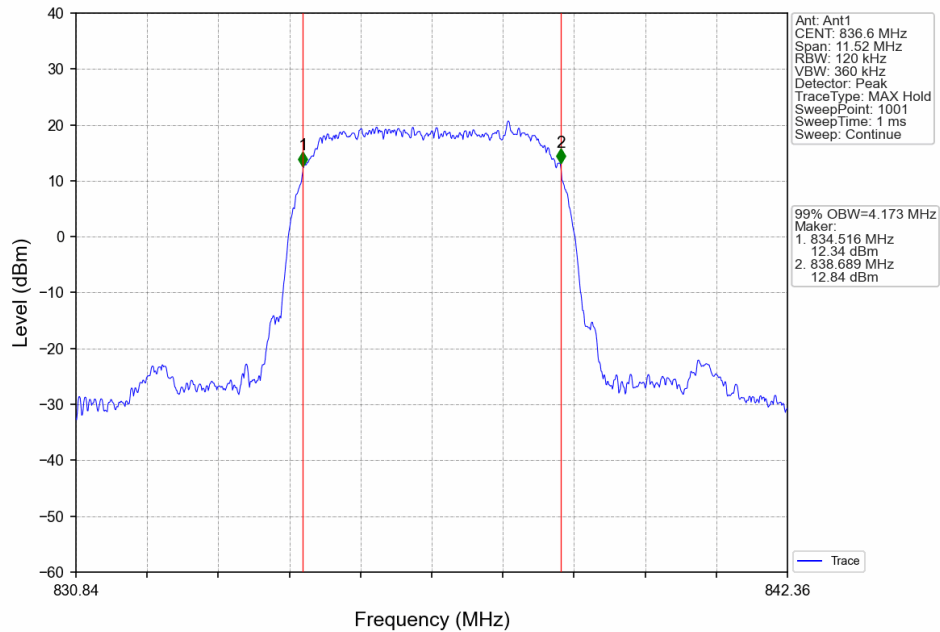
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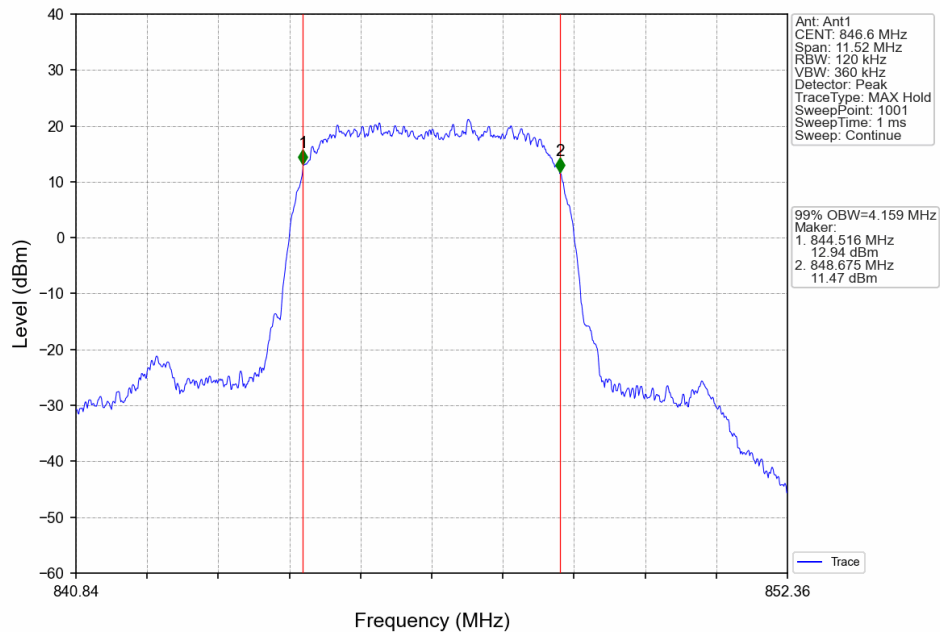
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Band V\_RMC\_HCH\_846.6MHz\_12.2kbps RMC\_NTNV



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## 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	4.759	/
			836.6	4.738	/
			846.6	4.732	/
					Pass
					Pass
					Pass



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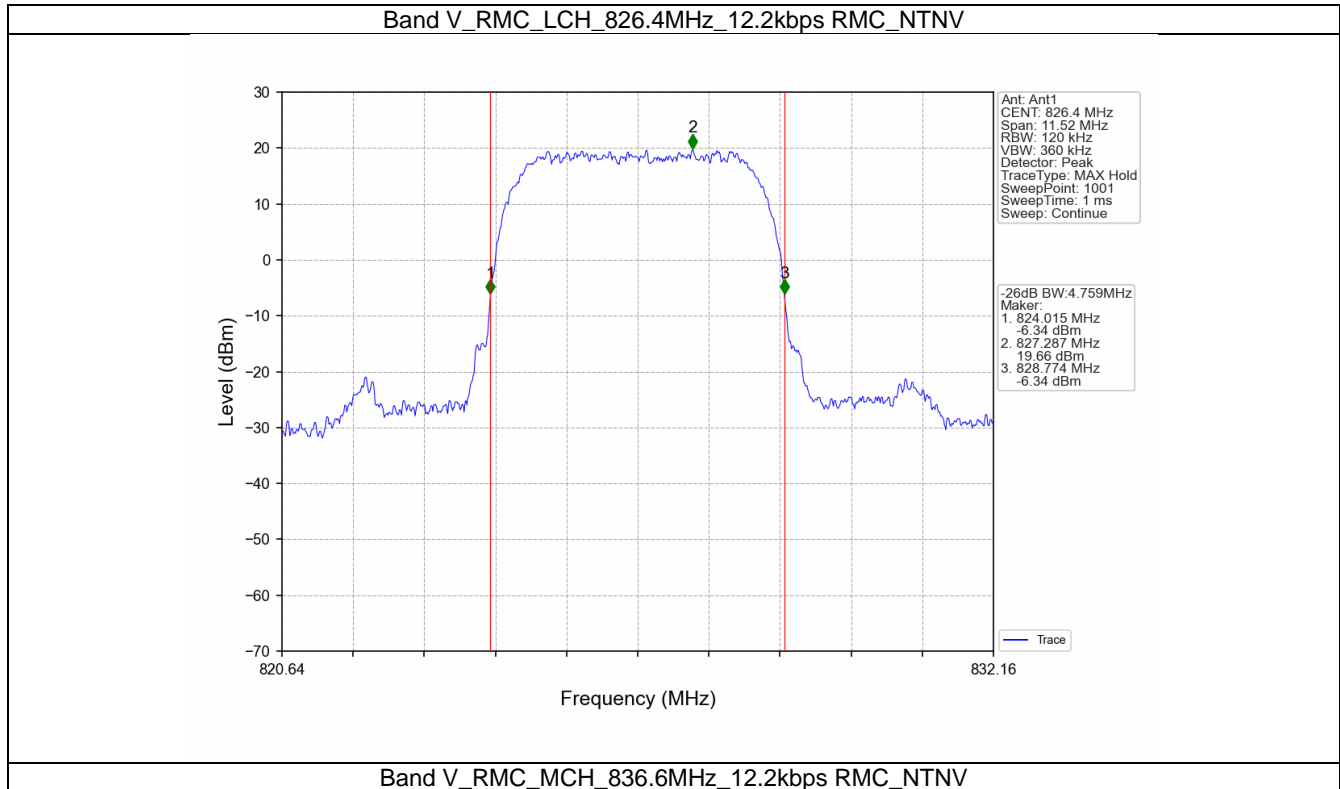
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### 3.2.2 Test Graph



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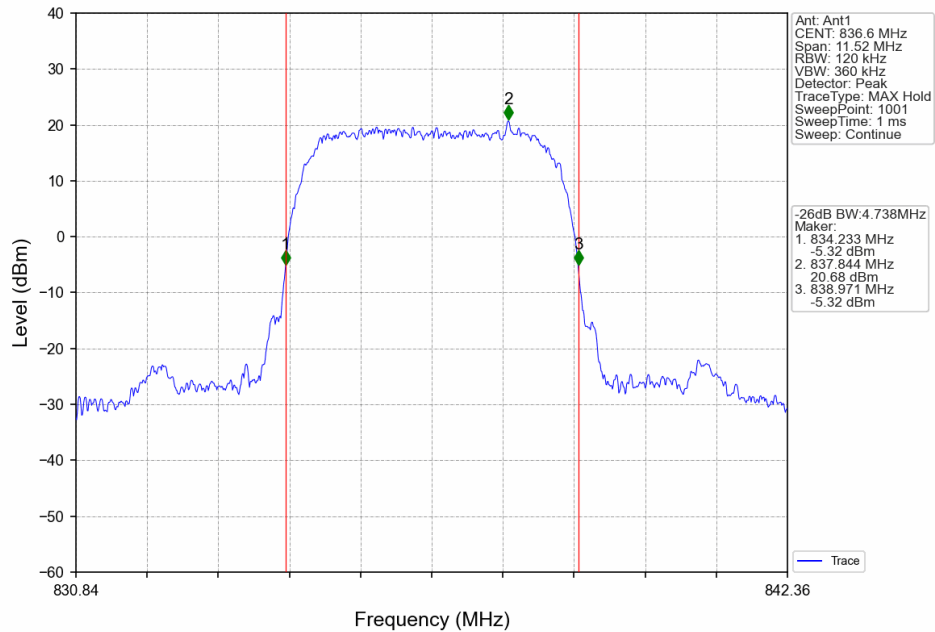
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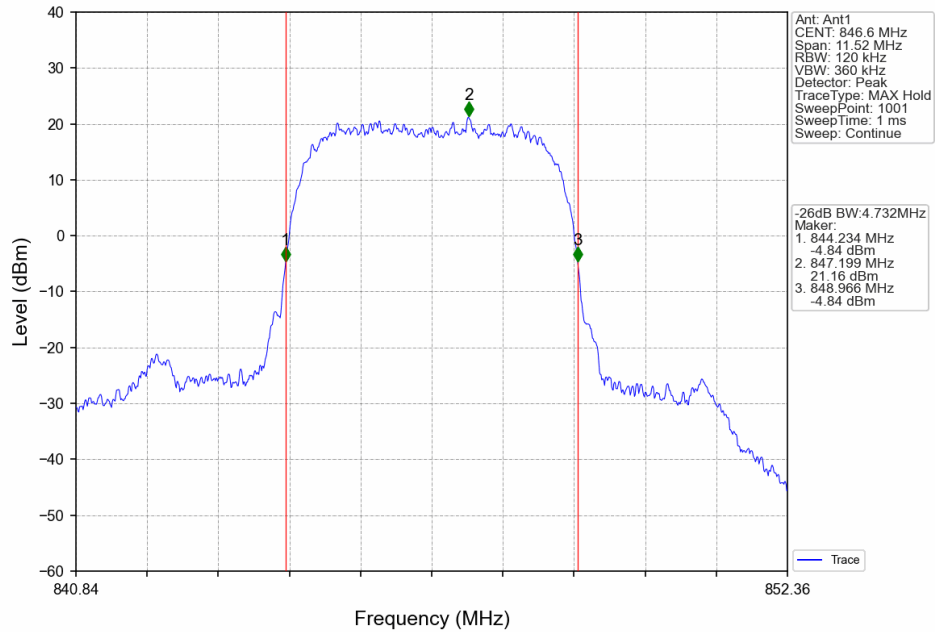
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Band V\_RMC\_HCH\_846.6MHz\_12.2kbps RMC\_NTNV



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## 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	2.97	<=13	Pass
			836.6	3.02	<=13	Pass
			846.6	3.00	<=13	Pass



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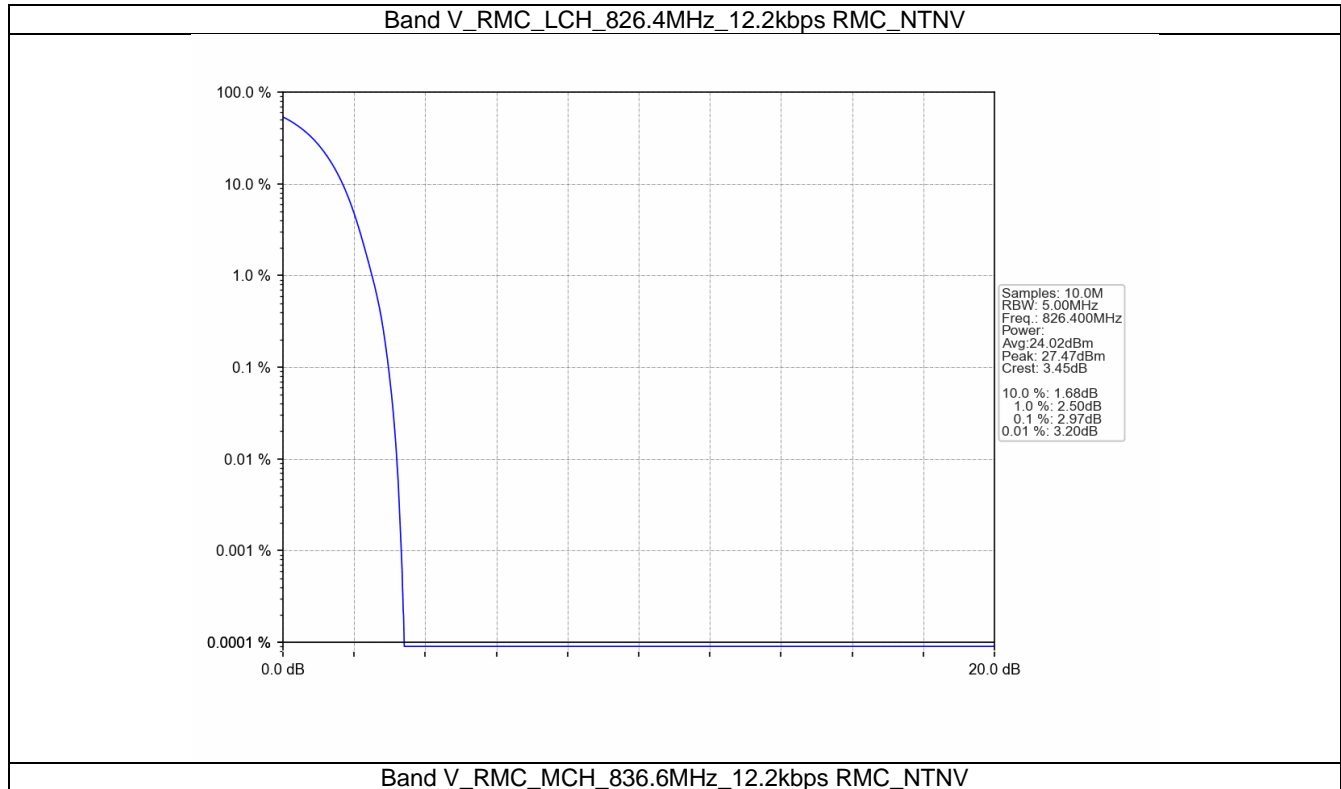
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### 4.1.2 Test Graph



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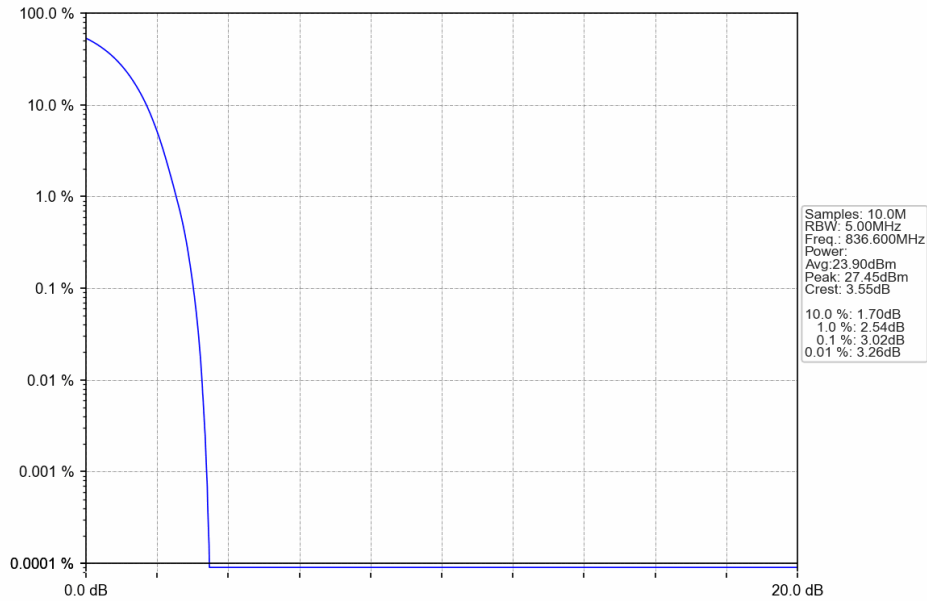
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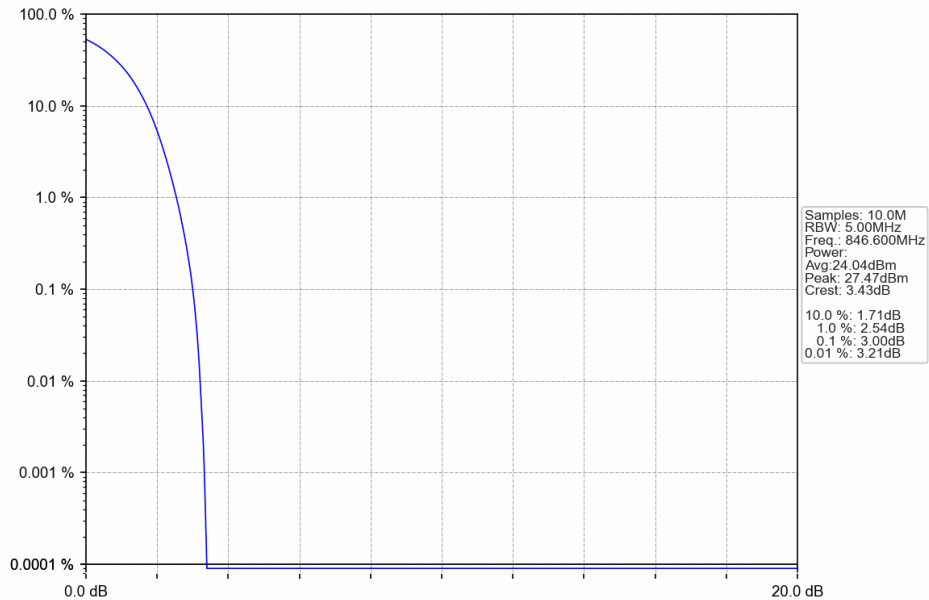
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Band V\_RMC\_HCH\_846.6MHz\_12.2kbps RMC\_NTNV



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## 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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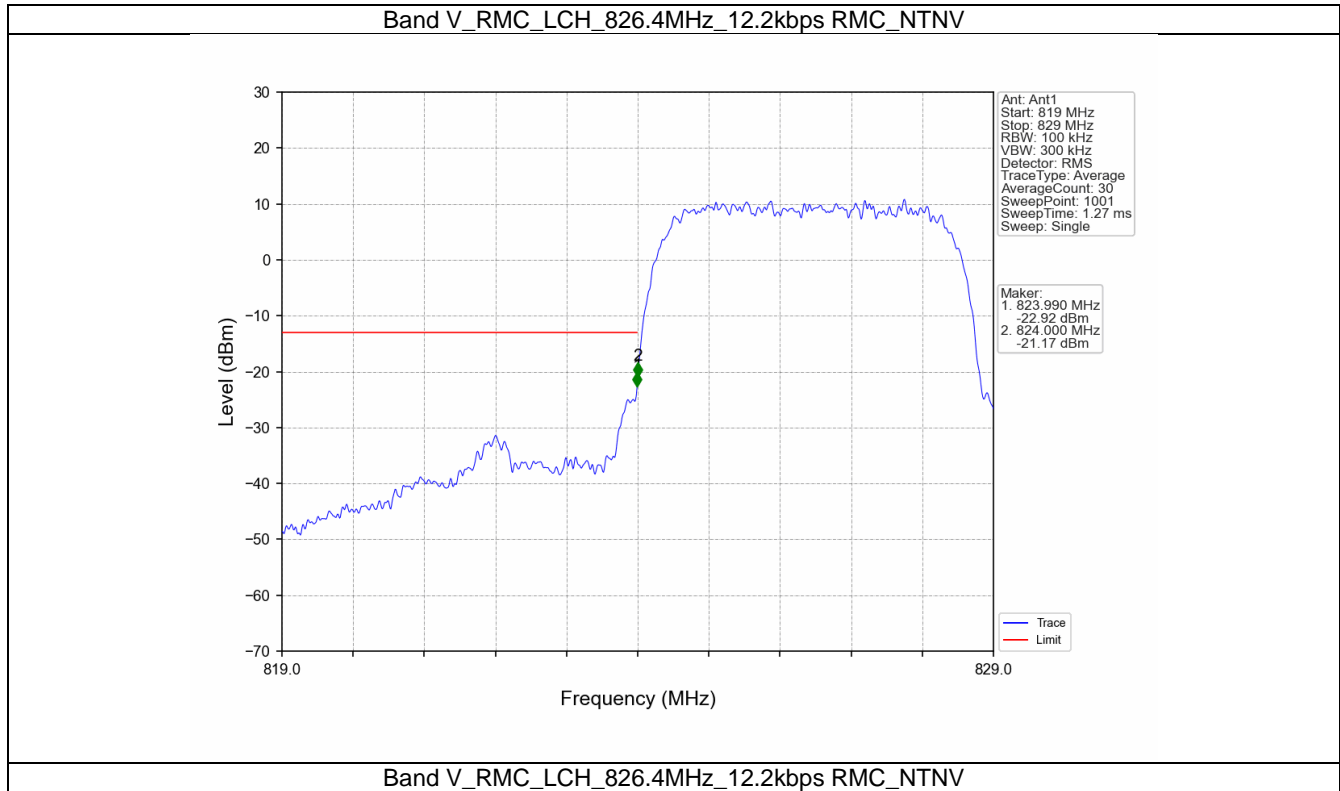
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### 5.1.2 Test Graph



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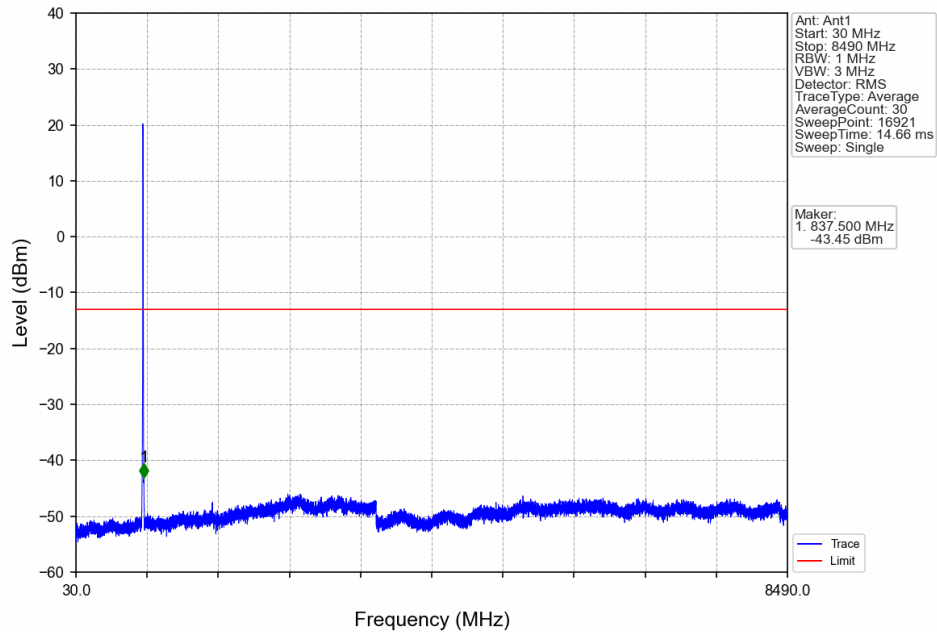
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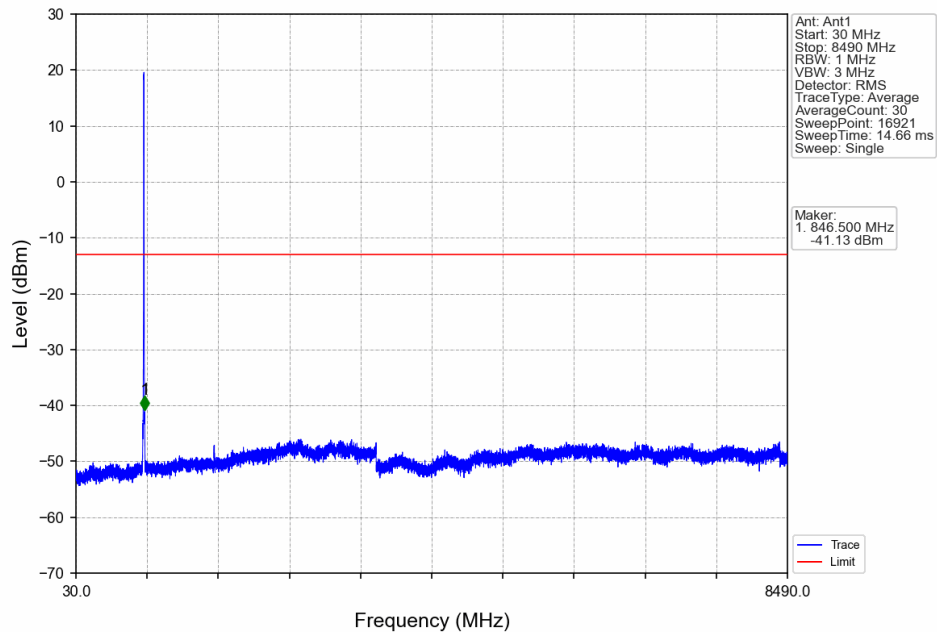
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Band V\_RMC\_MCH\_836.6MHz\_12.2kbps RMC\_NTNV



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



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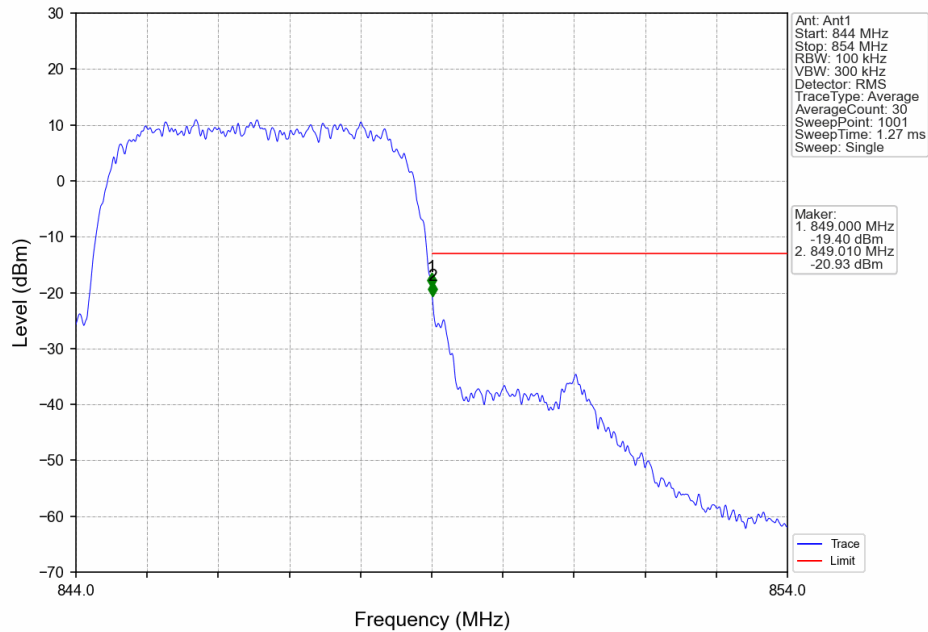
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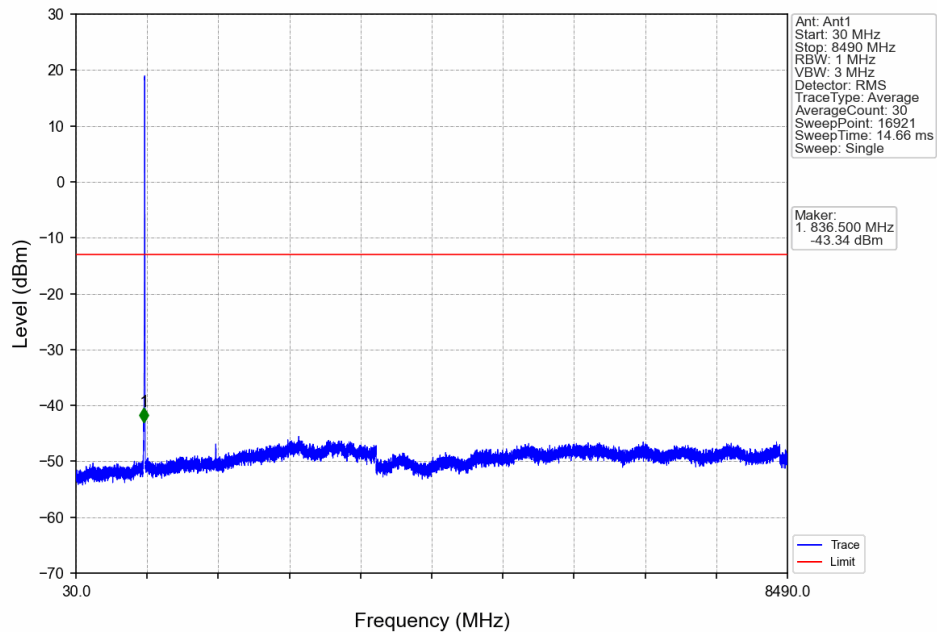
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Band V\_RMC\_HCH\_846.6MHz\_12.2kbps RMC\_NTNV



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## 6. Field Strength of Spurious Radiation

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	1341.5	47.47	-47.68	25.02	-70.45	-13.00	57.45	Horizontal
2	1654.5	52.76	-47.51	25.46	-64.55	-13.00	51.55	Horizontal
3	2482	65.39	-46.68	27.73	-48.82	-13.00	35.82	Horizontal
4	3719	46.78	-44.61	29.41	-63.68	-13.00	50.68	Horizontal
5	5524.5	49.92	-41.87	32.30	-54.91	-13.00	41.91	Horizontal
6	8947.5	40.79	-35.94	36.89	-53.52	-13.00	40.52	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1651.5	52.31	-47.52	25.49	-64.98	-13.00	51.98	Vertical
2	1771.5	55.25	-47.36	25.17	-62.20	-13.00	49.20	Vertical
3	2482	63.20	-46.68	27.73	-51.01	-13.00	38.01	Vertical
4	3129	47.05	-45.73	28.78	-65.16	-13.00	52.16	Vertical
5	5524.5	49.69	-41.87	32.30	-55.14	-13.00	42.14	Vertical
6	8361	41.74	-37.05	36.34	-54.23	-13.00	41.23	Vertical



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**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	1674.5	55.85	-47.48	25.30	-61.59	-13.00	48.59	Horizontal
2	2506	67.49	-46.66	27.80	-46.63	-13.00	33.63	Horizontal
3	3698	46.89	-44.48	29.30	-63.55	-13.00	50.55	Horizontal
4	5524.5	49.59	-41.87	32.30	-55.24	-13.00	42.24	Horizontal
5	7423.5	42.49	-38.36	36.75	-54.38	-13.00	41.38	Horizontal
6	9904	40.30	-35.31	38.60	-51.67	-13.00	38.67	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1328	47.30	-47.74	24.88	-70.82	-13.00	57.82	Vertical
2	1674.5	57.90	-47.48	25.30	-59.54	-13.00	46.54	Vertical
3	2506.5	64.87	-46.66	27.80	-49.25	-13.00	36.25	Vertical
4	5524.5	48.80	-41.87	32.30	-56.03	-13.00	43.03	Vertical
5	8431.5	41.30	-36.81	36.44	-54.33	-13.00	41.33	Vertical
6	10000	40.52	-35.68	38.70	-51.72	-13.00	38.72	Vertical



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**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	1692	54.67	-47.44	25.16	-62.87	-13.00	49.87	Horizontal
2	2536.5	67.61	-46.50	27.80	-46.35	-13.00	33.35	Horizontal
3	3719.5	46.74	-44.62	29.42	-63.72	-13.00	50.72	Horizontal
4	5524.5	50.06	-41.87	32.30	-54.77	-13.00	41.77	Horizontal
5	7432.5	42.29	-38.36	36.77	-54.56	-13.00	41.56	Horizontal
6	9981	40.37	-35.61	38.68	-51.82	-13.00	38.82	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1225.5	47.75	-47.89	24.55	-70.85	-13.00	57.85	Vertical
2	1691.5	57.37	-47.45	25.17	-60.17	-13.00	47.17	Vertical
3	2537	64.98	-46.50	27.80	-48.98	-13.00	35.98	Vertical
4	4232	45.54	-43.53	29.73	-63.52	-13.00	50.52	Vertical
5	5524.5	49.38	-41.87	32.30	-55.45	-13.00	42.45	Vertical
6	8942	40.66	-35.91	36.87	-53.64	-13.00	40.64	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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