

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 BandV_ERP

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	22.08	-2.89	17.04	<=38.45	Pass
			836.6	22.08	-2.89	17.04	<=38.45	Pass
			846.6	22.03	-2.89	16.99	<=38.45	Pass
Note1: ERP=Conducted Power+Antenna Gain-2.15								

2. Frequency Stability

2.1 Test Result

2.1.1 BandV

Band: V							
Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
RMC	826.4	20	3.5	0.006	0.0000	-2.5 to 2.5	Pass
			3.87	0.357	0.0004	-2.5 to 2.5	Pass
			4.4	0.563	0.0007	-2.5 to 2.5	Pass
		-30	3.87	0.557	0.0007	-2.5 to 2.5	Pass
		-20	3.87	0.527	0.0006	-2.5 to 2.5	Pass
		-10	3.87	0.486	0.0006	-2.5 to 2.5	Pass
		0	3.87	0.743	0.0009	-2.5 to 2.5	Pass
		10	3.87	0.741	0.0009	-2.5 to 2.5	Pass
		30	3.87	0.838	0.0010	-2.5 to 2.5	Pass
		40	3.87	0.734	0.0009	-2.5 to 2.5	Pass
		50	3.87	0.896	0.0011	-2.5 to 2.5	Pass
	836.6	20	3.5	-0.059	-0.0001	-2.5 to 2.5	Pass
			3.87	-0.050	-0.0001	-2.5 to 2.5	Pass
			4.4	-0.379	-0.0005	-2.5 to 2.5	Pass
		-30	3.87	0.173	0.0002	-2.5 to 2.5	Pass
		-20	3.87	0.083	0.0001	-2.5 to 2.5	Pass
		-10	3.87	-0.156	-0.0002	-2.5 to 2.5	Pass
		0	3.87	0.139	0.0002	-2.5 to 2.5	Pass
		10	3.87	-0.025	0.0000	-2.5 to 2.5	Pass
		30	3.87	0.086	0.0001	-2.5 to 2.5	Pass
		40	3.87	-0.354	-0.0004	-2.5 to 2.5	Pass
		50	3.87	-0.048	-0.0001	-2.5 to 2.5	Pass
	846.6	20	3.5	-0.888	-0.0010	-2.5 to 2.5	Pass
			3.87	-0.822	-0.0010	-2.5 to 2.5	Pass
			4.4	-0.609	-0.0007	-2.5 to 2.5	Pass
		-30	3.87	-0.496	-0.0006	-2.5 to 2.5	Pass
		-20	3.87	-0.670	-0.0008	-2.5 to 2.5	Pass
		-10	3.87	-0.795	-0.0009	-2.5 to 2.5	Pass
		0	3.87	-0.802	-0.0009	-2.5 to 2.5	Pass
		10	3.87	-0.320	-0.0004	-2.5 to 2.5	Pass
		30	3.87	-0.555	-0.0007	-2.5 to 2.5	Pass
		40	3.87	-0.714	-0.0008	-2.5 to 2.5	Pass
		50	3.87	-0.596	-0.0007	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 BandV_OBW

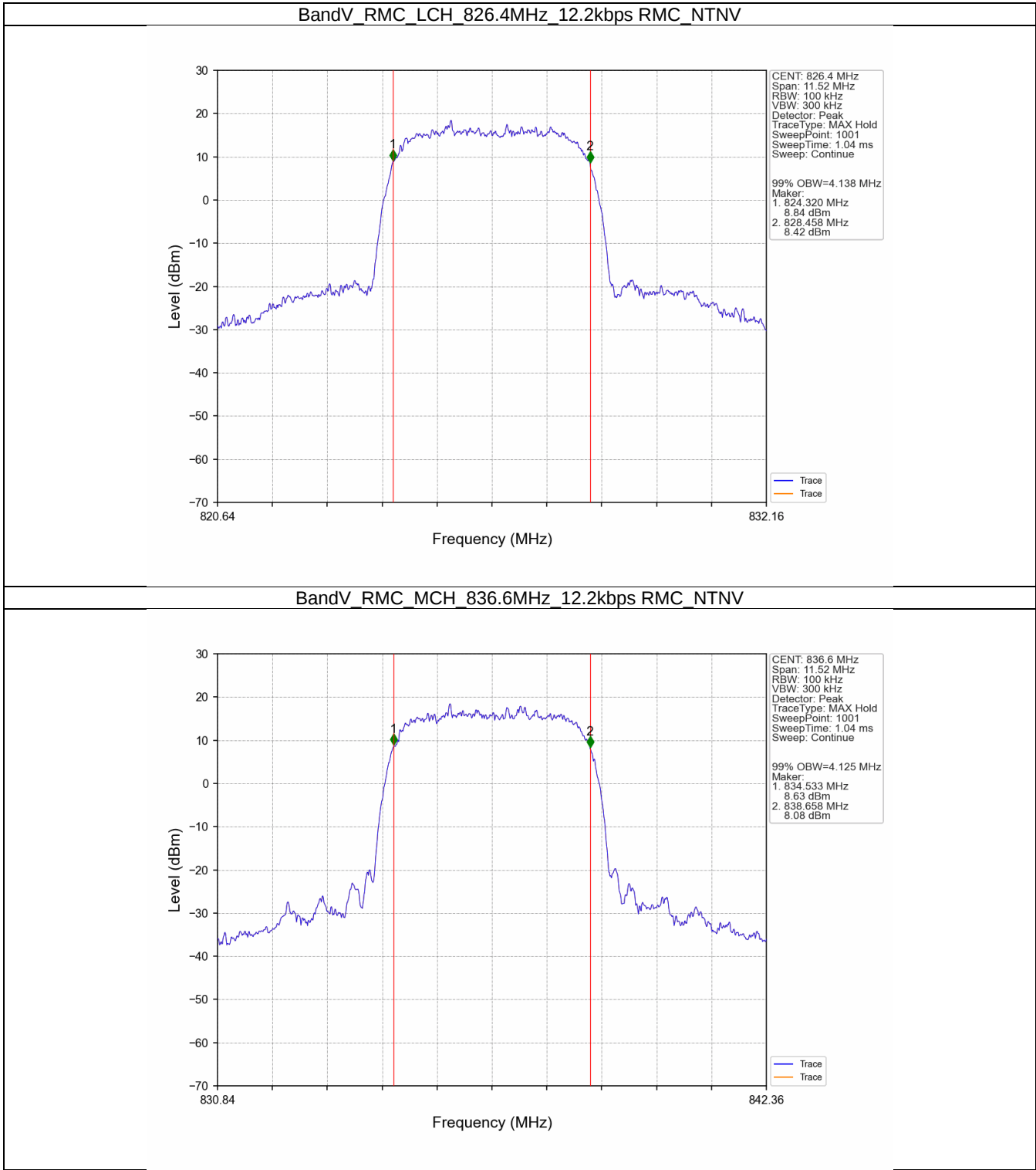
Band: V						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	826.4	4.138	/	Pass
			836.6	4.125	/	Pass
			846.6	4.130	/	Pass

3.1.2 BandV_XDB

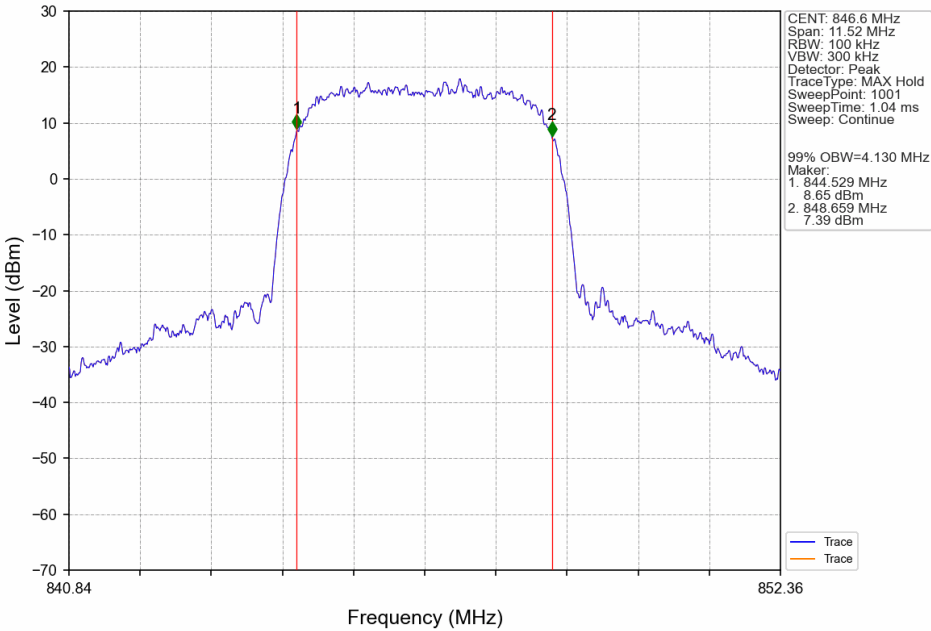
Band: V						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	826.4	4.727	/	Pass
			836.6	4.707	/	Pass
			846.6	4.717	/	Pass

3.2 Test Graph

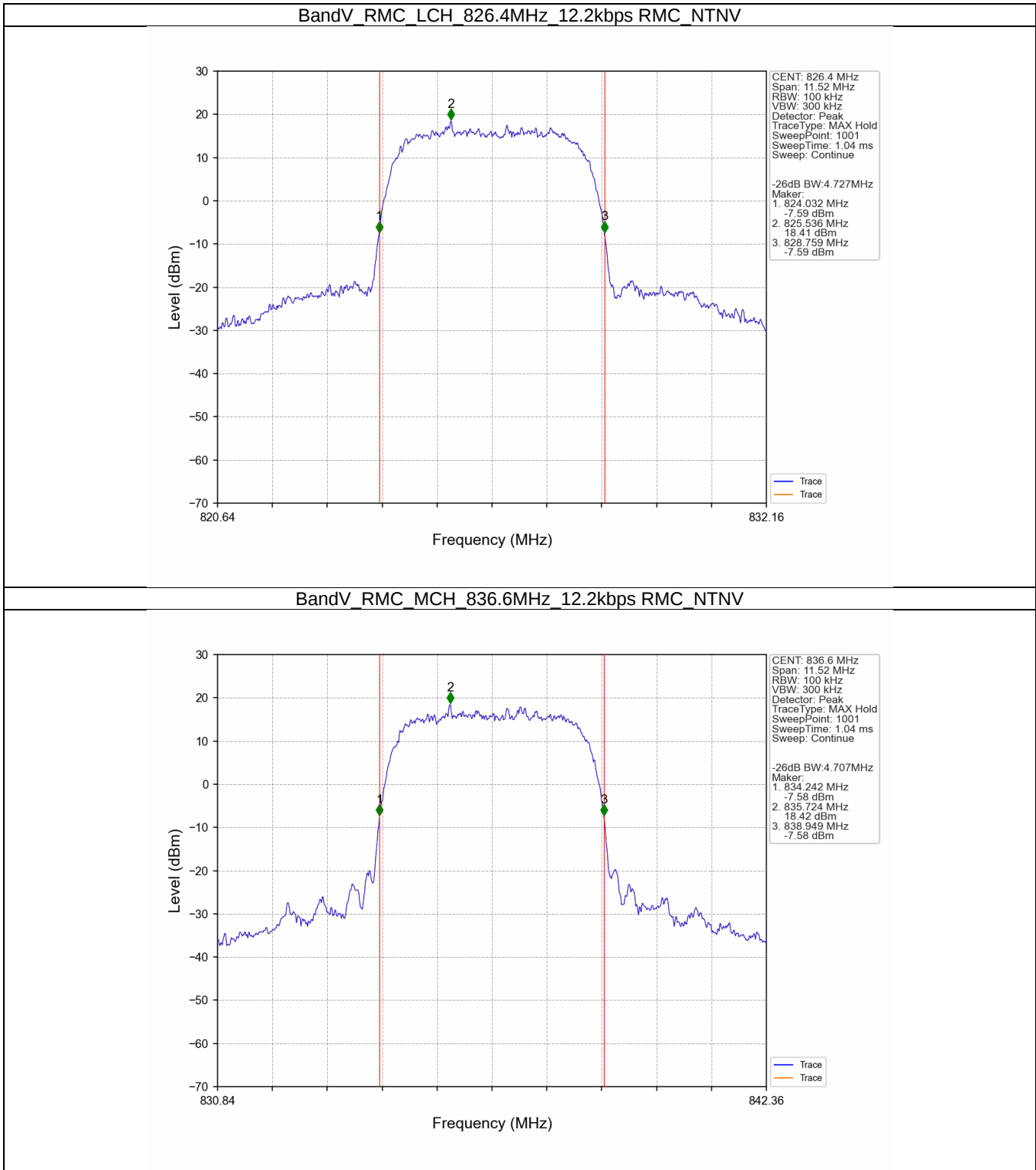
3.2.1 BandV_OBW



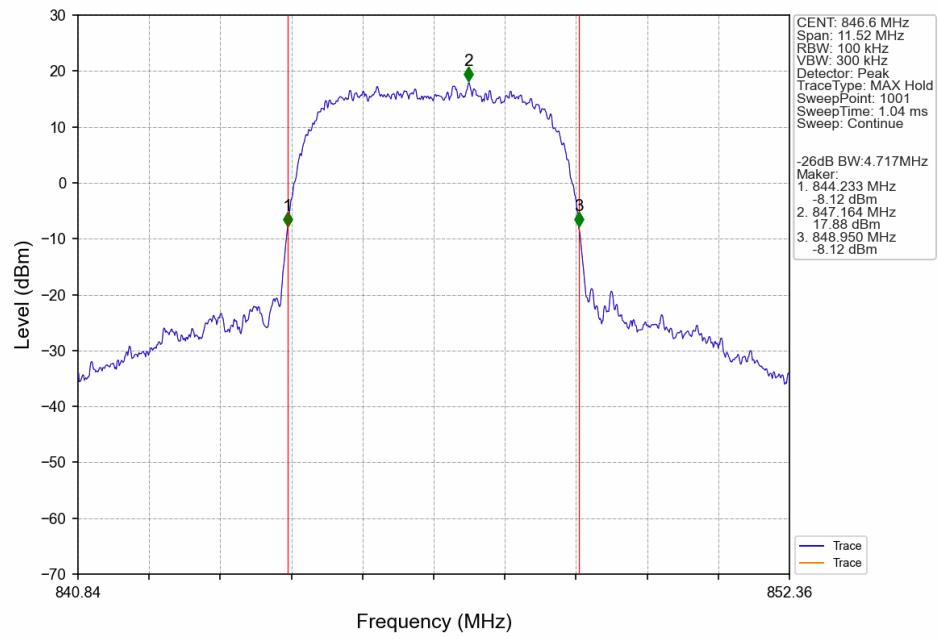
BandV_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV



3.2.2 BandV_XDB



BandV_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV



4. Peak-Average Ratio

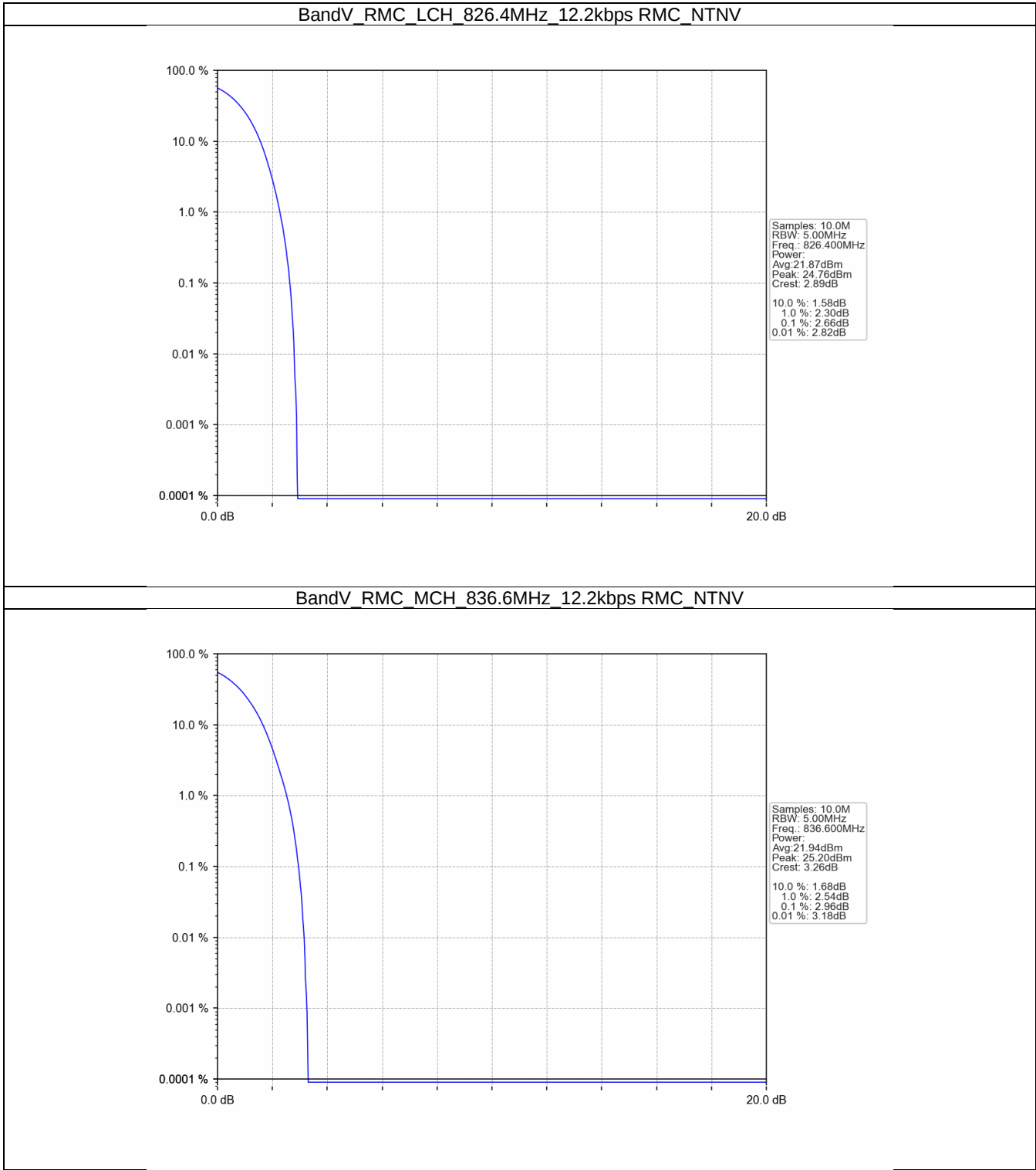
4.1 Test Result

4.1.1 BandV

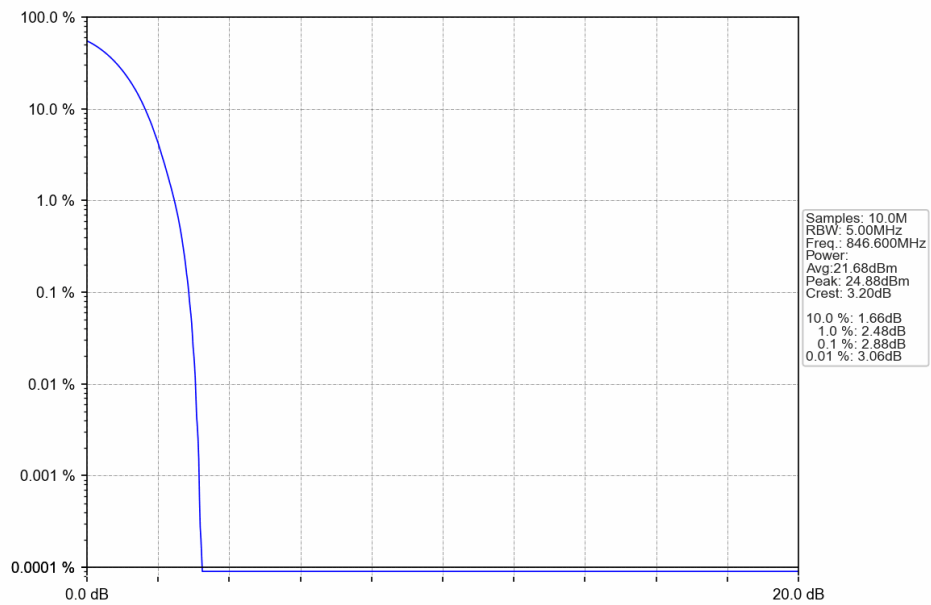
Band: V						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	826.4	2.66	<=13	Pass
			836.6	2.96	<=13	Pass
			846.6	2.88	<=13	Pass

4.2 Test Graph

4.2.1 BandV



BandV_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV



5. Spurious Emission

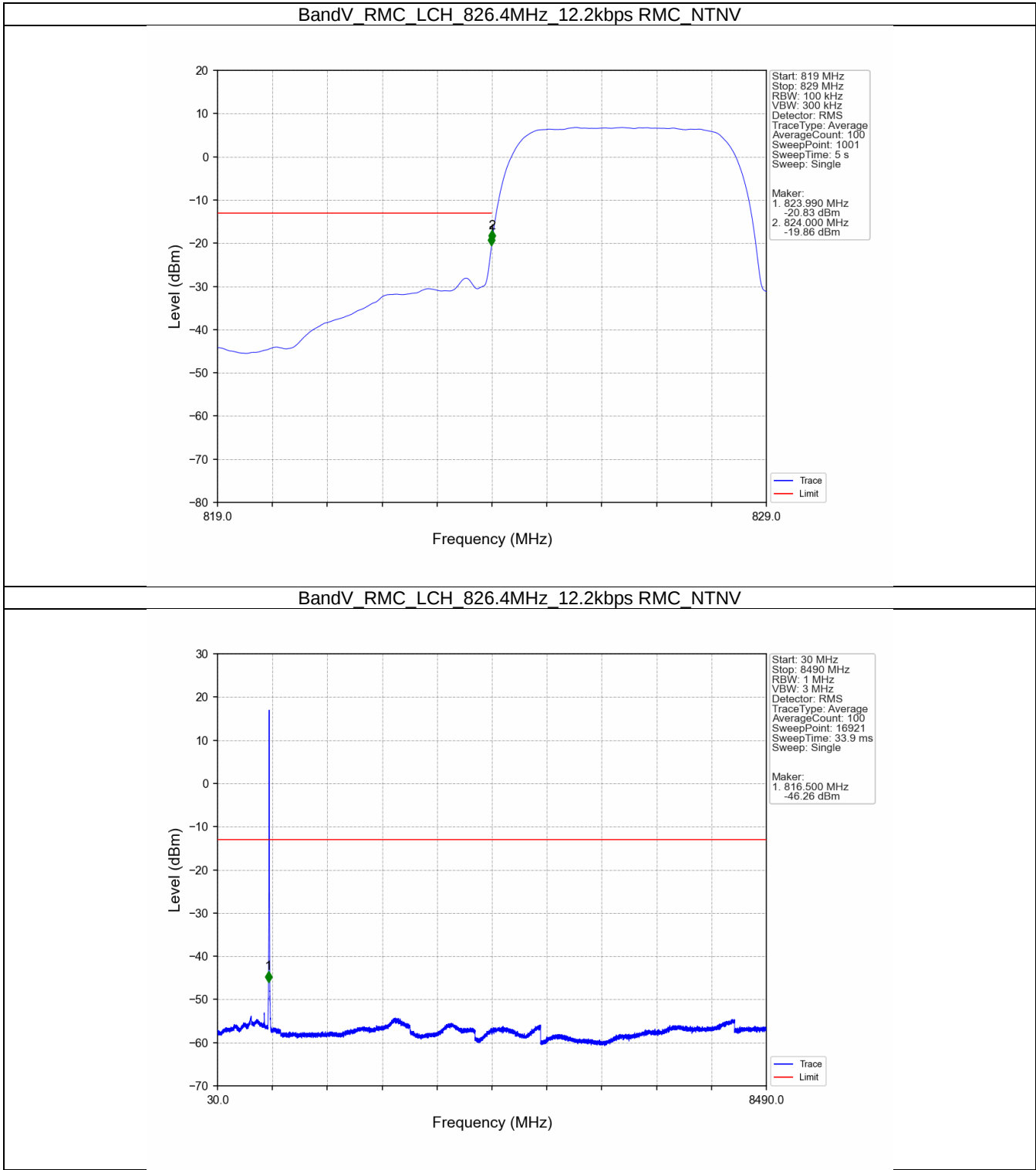
5.1 Test Result

5.1.1 BandV

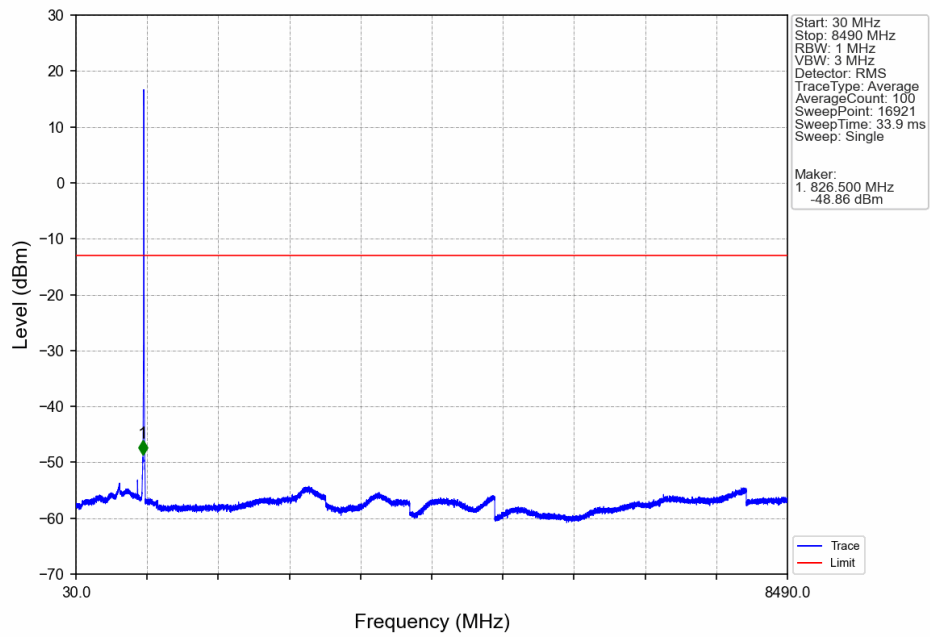
Band: V						
ENV	Mode		Frequency (MHz)	Spurious Emission		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	826.4	Refer To Test Graph		Pass
			836.6	Refer To Test Graph		Pass
			846.6	Refer To Test Graph		Pass

5.2 Test Graph

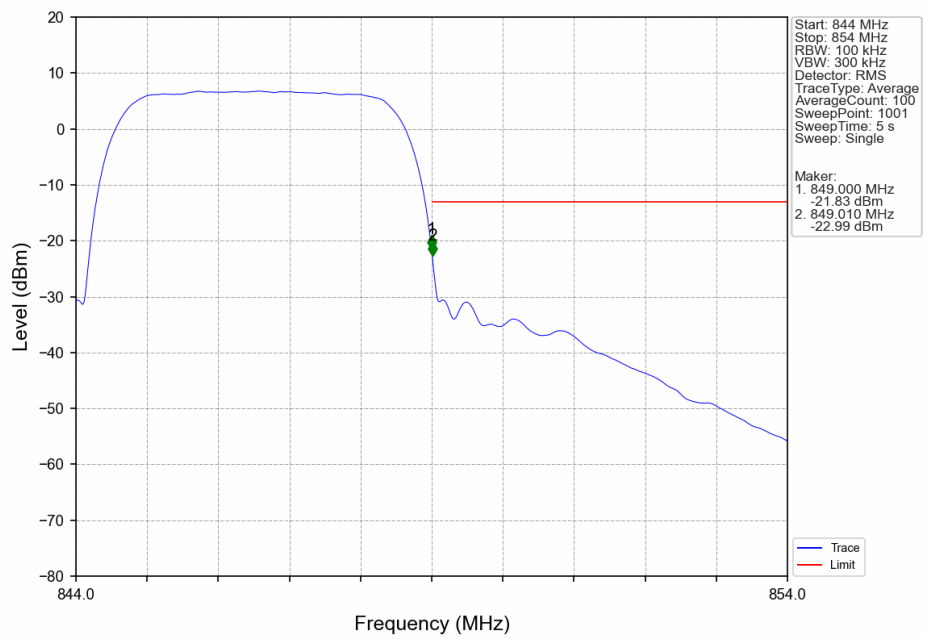
5.2.1 BandV



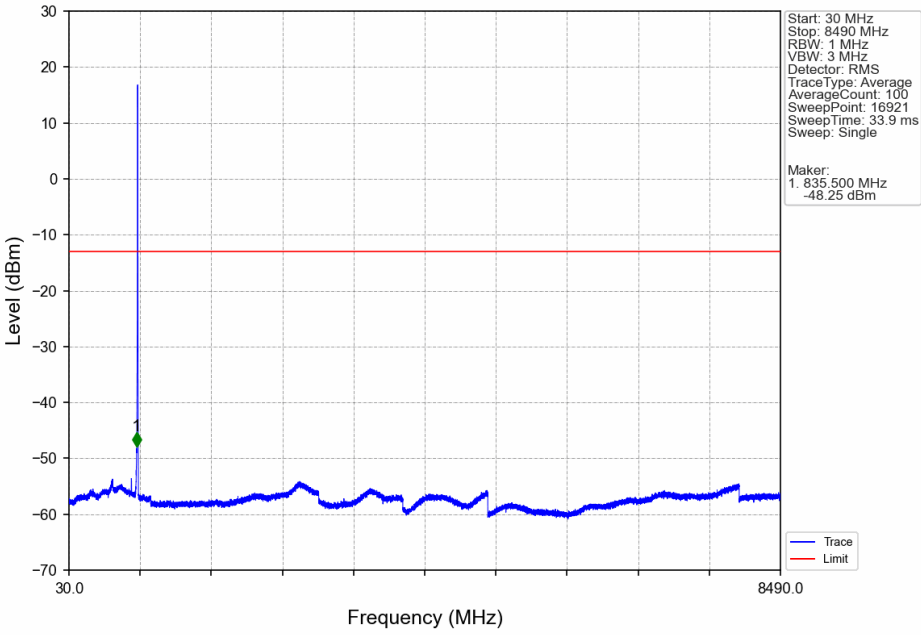
BandV_RMC_MCH_836.6MHz_12.2kbps RMC_NTNV



BandV_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV



BandV_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV



6. Field Strength of Spurious Radiation

Test Band = WCDMA Band V_ TM1

Test Channel = Mid Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1671.1111	63.62	-49.78	25.61	-55.81	-13.00	42.81	Horizontal
2	2511.1111	60.48	-48.93	27.22	-56.49	-13.00	43.49	Horizontal
3	3350.2222	52.04	-48.66	28.38	-63.50	-13.00	50.50	Horizontal
4	4182	48.82	-48.34	29.59	-65.19	-13.00	52.19	Horizontal
5	5018.4	49.83	-47.95	31.25	-62.13	-13.00	49.13	Horizontal
6	5854.8	50.15	-47.33	32.74	-59.70	-13.00	46.70	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1671.1111	53.73	-49.78	25.61	-65.70	-13.00	52.70	Vertical
2	2512.4444	67.26	-48.93	27.22	-49.71	-13.00	36.71	Vertical
3	3348.4444	53.40	-48.66	28.38	-62.14	-13.00	49.14	Vertical
4	4182	48.81	-48.34	29.59	-65.20	-13.00	52.20	Vertical
5	5018.4	49.44	-47.95	31.25	-62.52	-13.00	49.52	Vertical
6	5854.8	50.90	-47.33	32.74	-58.95	-13.00	45.95	Vertical

Test Band = WCDMA Band V_ TM1
Test Channel = High Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1691.1111	62.91	-49.74	25.64	-56.45	-13.00	43.45	Horizontal
2	2537.3333	60.56	-49.00	27.27	-56.43	-13.00	43.43	Horizontal
3	3381.7778	51.27	-48.68	28.41	-64.26	-13.00	51.26	Horizontal
4	4233	49.46	-48.25	29.67	-64.38	-13.00	51.38	Horizontal
5	5079.6	49.81	-47.93	31.42	-61.95	-13.00	48.95	Horizontal
6	5926.2	50.05	-47.17	32.77	-59.61	-13.00	46.61	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1691.5556	54.32	-49.74	25.64	-65.04	-13.00	52.04	Vertical
2	2536.8889	68.22	-49.00	27.27	-48.77	-13.00	35.77	Vertical
3	3381.7778	53.60	-48.68	28.41	-61.93	-13.00	48.93	Vertical
4	4230.2222	50.90	-48.26	29.67	-62.95	-13.00	49.95	Vertical
5	5079.6	50.13	-47.93	31.42	-61.63	-13.00	48.63	Vertical
6	5926.2	50.17	-47.17	32.77	-59.49	-13.00	46.49	Vertical

Test Band = WCDMA Band V_ TM1
Test Channel = Low Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1654.6667	62.95	-49.82	25.58	-56.54	-13.00	43.54	Horizontal
2	2476.8889	55.60	-49.03	27.16	-61.54	-13.00	48.54	Horizontal
3	3308.4444	53.31	-48.64	28.35	-62.24	-13.00	49.24	Horizontal
4	4132	49.82	-48.29	29.51	-64.22	-13.00	51.22	Horizontal
5	4958.4	49.16	-48.05	31.11	-63.04	-13.00	50.04	Horizontal
6	5784.8	50.98	-47.69	32.71	-59.25	-13.00	46.25	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1650.6667	53.98	-49.82	25.58	-65.53	-13.00	52.53	Vertical
2	2481.7778	61.77	-49.01	27.17	-55.33	-13.00	42.33	Vertical
3	3308.4444	57.21	-48.64	28.35	-58.34	-13.00	45.34	Vertical
4	4132	49.13	-48.29	29.51	-64.91	-13.00	51.91	Vertical
5	4958.4	49.13	-48.05	31.11	-63.07	-13.00	50.07	Vertical
6	5784.8	51.35	-47.69	32.71	-58.88	-13.00	45.88	Vertical