

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

Test Band: 5											
Test Mode		Conducted Power (dBm)			Antenna gain		ERP(dBm)			Limit (dBm)	Verdict
		LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
HSUPA	Subtest 1	13.24	13.81	13.73	-5.53	-3.38	7.71	8.28	8.20	38.45	PASS
	Subtest 2	13.18	14.01	14.01	-5.53	-3.38	7.65	8.48	8.48	38.45	PASS
	Subtest 3	12.92	13.86	14.22	-5.53	-3.38	7.39	8.33	8.69	38.45	PASS
	Subtest 4	12.97	13.58	13.78	-5.53	-3.38	7.44	8.05	8.25	38.45	PASS
	Subtest 5	13.38	13.58	14.01	-5.53	-3.38	7.85	8.05	8.48	38.45	PASS
HSDPA	Subtest 1	13.41	13.67	14.05	-5.53	-3.38	7.88	8.14	8.52	38.45	PASS
	Subtest 2	13.56	14.28	14.48	-5.53	-3.38	8.03	8.75	8.95	38.45	PASS
	Subtest 3	13.09	13.81	14.01	-5.53	-3.38	7.56	8.28	8.48	38.45	PASS
	Subtest 4	13.41	14.04	14.03	-5.53	-3.38	7.88	8.51	8.50	38.45	PASS
RMC	12.2kbps RMC	17.13	17.83	18.27	-5.53	-3.38	11.60	12.30	12.74	38.45	PASS

Note:
 1) dBd = dBi - 2.15
 2) EIRP = Conducted output power + Antenna gain (dBi)
 3) ERP = Conducted output power + Antenna gain (dBd)

2. Frequency stability

2.1 Test Result

Test Band: 5 (Frequency Error VS. Voltage)										
Test Mode	Test Temp.	Test Volt.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
			LCH	MCH	HCH	LCH	MCH	HCH		
HSUPA	NT	LV	3.8123	4.4417	2.5177	0.0046	0.0053	0.0030	2.50	PASS
		NV	5.0640	0.5937	-0.3076	0.0061	0.0007	-0.0004	2.50	PASS
		HV	-1.3018	-1.7667	-0.4506	-0.0016	-0.0021	-0.0005	2.50	PASS
HSDPA	NT	LV	6.0797	4.7565	6.3872	0.0074	0.0057	0.0075	2.50	PASS
		NV	9.0194	5.2142	1.3590	0.0109	0.0062	0.0016	2.50	PASS
		HV	11.5442	4.3774	4.2129	0.0140	0.0052	0.0050	2.50	PASS
RMC	NT	LV	-0.6366	-0.8225	3.0112	-0.0008	-0.0010	0.0036	2.50	PASS
		NV	0.4077	-0.1860	1.4877	0.0005	-0.0002	0.0018	2.50	PASS
		HV	0.6294	0.2718	-1.1015	0.0008	0.0003	-0.0013	2.50	PASS

Test Band: 5 (Frequency Error VS. Temperature)										
Test Mode	Test Volt.	Test Temp.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
			LCH	MCH	HCH	LCH	MCH	HCH		
HSUPA	NV	-30.00	0.8512	-0.7153	-0.5221	0.0010	-0.0009	-0.0006	2.50	PASS
		-20.00	1.5593	0.3004	9.5129	0.0019	0.0004	0.0112	2.50	PASS
		-10.00	0.2003	-2.1386	-3.5191	0.0002	-0.0026	-0.0042	2.50	PASS
		0.00	0.4506	-1.8597	-4.8637	0.0005	-0.0022	-0.0057	2.50	PASS
		10.00	2.0599	3.0041	-0.7582	0.0025	0.0036	-0.0009	2.50	PASS
		20.00	2.7180	1.7881	-2.7180	0.0033	0.0021	-0.0032	2.50	PASS
		30.00	-0.1931	-0.1860	-1.2517	-0.0002	-0.0002	-0.0015	2.50	PASS
		40.00	3.1972	0.7725	-2.2674	0.0039	0.0009	-0.0027	2.50	PASS
		50.00	2.5964	2.2173	-4.4346	0.0031	0.0027	-0.0052	2.50	PASS
HSDPA	NV	-30.00	9.9921	5.1355	3.7408	0.0121	0.0061	0.0044	2.50	PASS
		-20.00	10.6001	1.6308	-0.0429	0.0128	0.0019	-0.0001	2.50	PASS
		-10.00	11.7588	3.2973	2.3031	0.0142	0.0039	0.0027	2.50	PASS

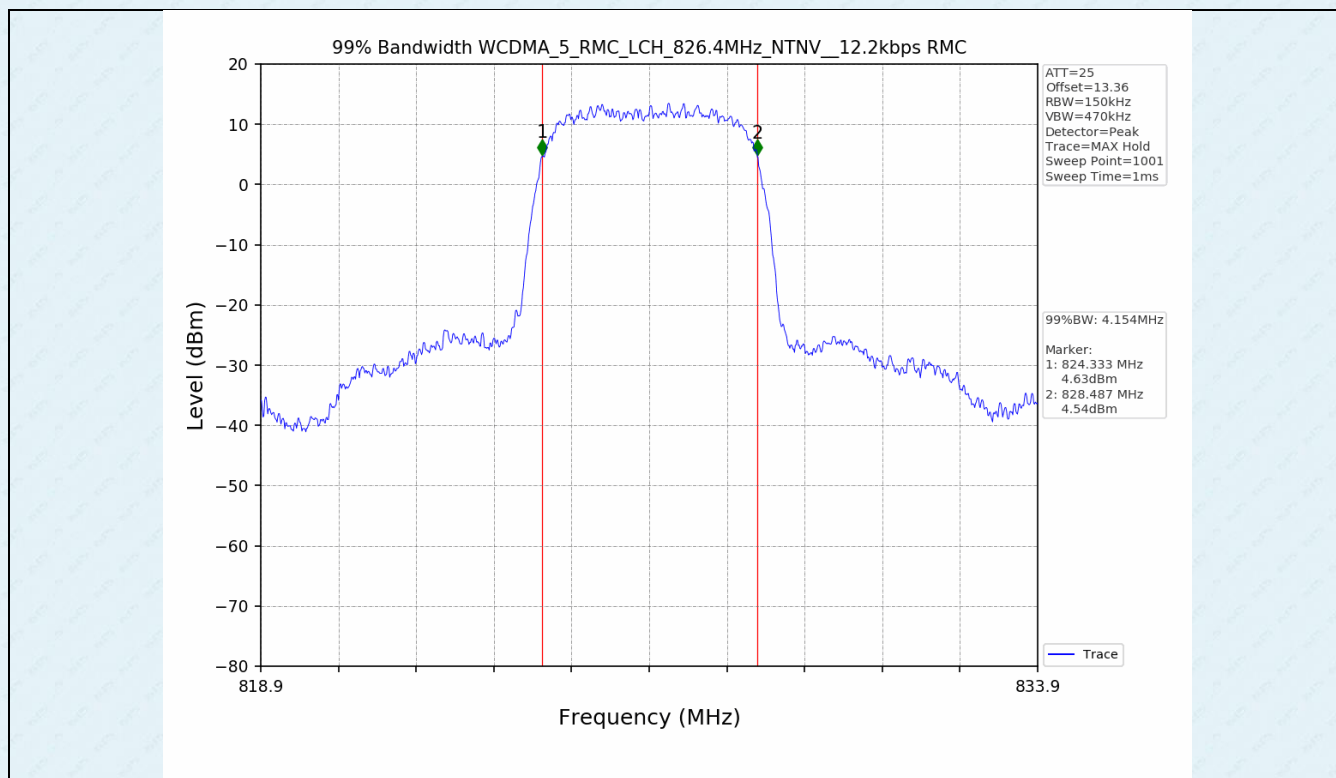
		0.00	8.1682	3.1757	5.4216	0.0099	0.0038	0.0064	2.50	PASS
		10.00	10.2353	2.3890	1.5450	0.0124	0.0029	0.0018	2.50	PASS
		20.00	9.1553	6.1011	3.8981	0.0111	0.0073	0.0046	2.50	PASS
		30.00	8.0752	1.9813	4.7135	0.0098	0.0024	0.0056	2.50	PASS
		40.00	4.8709	7.1311	2.6965	0.0059	0.0085	0.0032	2.50	PASS
RMC	NV	50.00	7.7963	5.7292	2.6536	0.0094	0.0068	0.0031	2.50	PASS
		-30.00	0.3862	-0.6080	-1.6308	0.0005	-0.0007	-0.0019	2.50	PASS
		-20.00	-0.0787	-1.8024	-0.8941	-0.0001	-0.0022	-0.0011	2.50	PASS
		-10.00	-1.3447	1.5378	-2.4533	-0.0016	0.0018	-0.0029	2.50	PASS
		0.00	-2.1100	-2.0385	1.9455	-0.0026	-0.0024	0.0023	2.50	PASS
		10.00	1.2517	-3.5691	0.9656	0.0015	-0.0043	0.0011	2.50	PASS
		20.00	-1.6809	-0.3576	2.1386	-0.0020	-0.0004	0.0025	2.50	PASS
		30.00	-0.8297	-3.2544	0.5078	-0.0010	-0.0039	0.0006	2.50	PASS
		40.00	-1.6737	-5.1284	3.0971	-0.0020	-0.0061	0.0037	2.50	PASS
50.00	0.2074	-4.0984	0.9155	0.0003	-0.0049	0.0011	2.50	PASS		

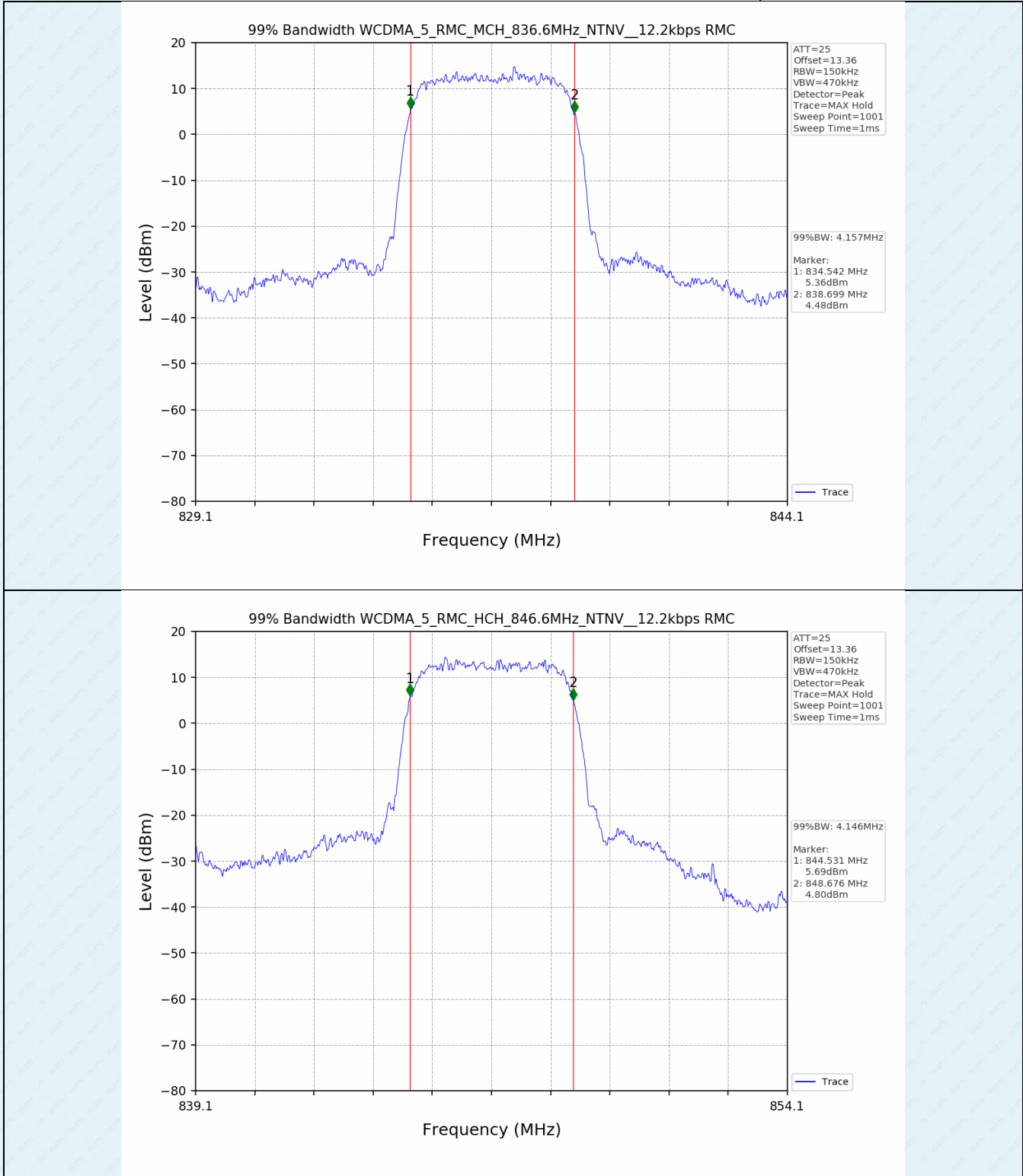
3. 99% & 26dB Bandwidth

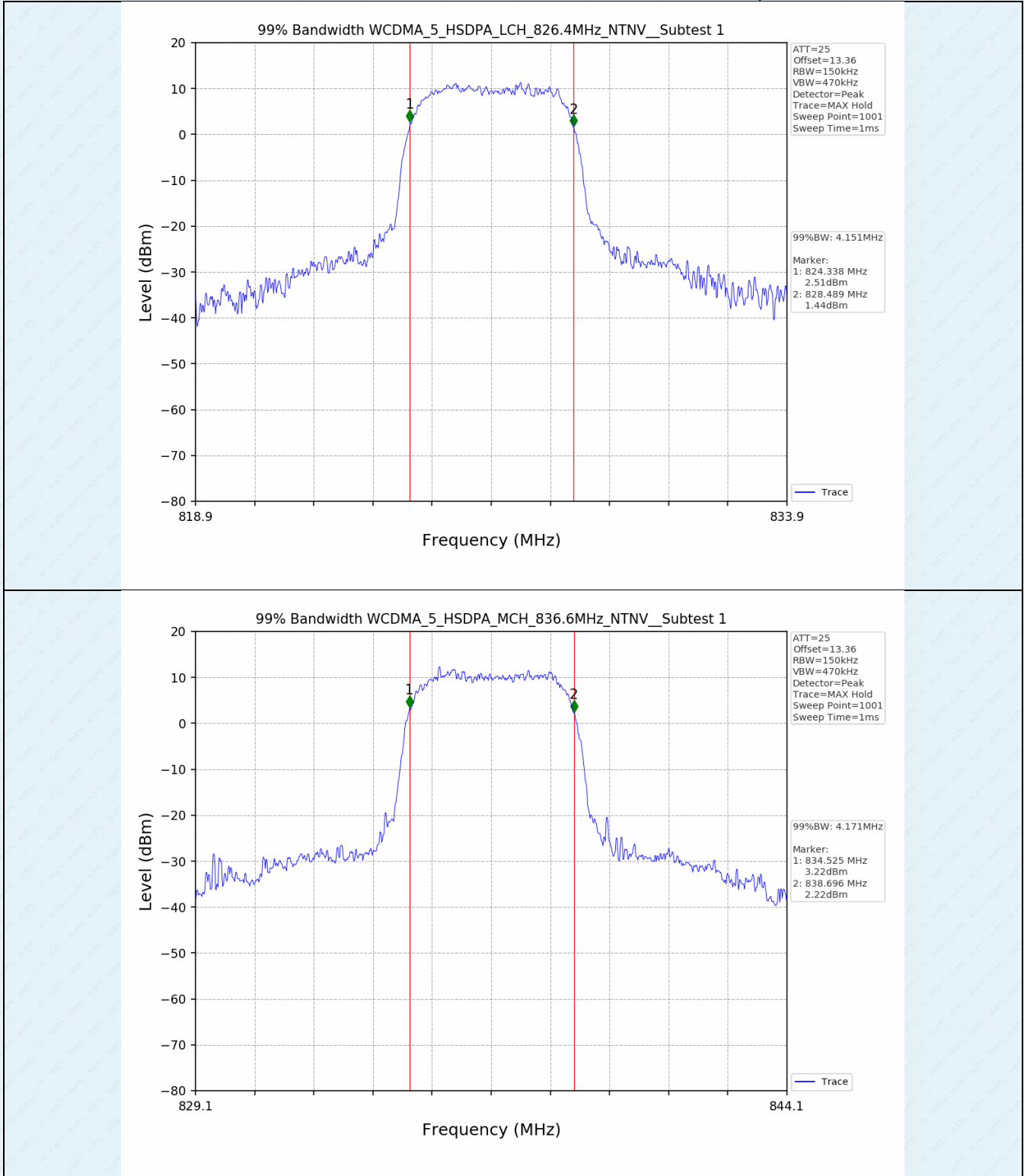
3.1 Test Result

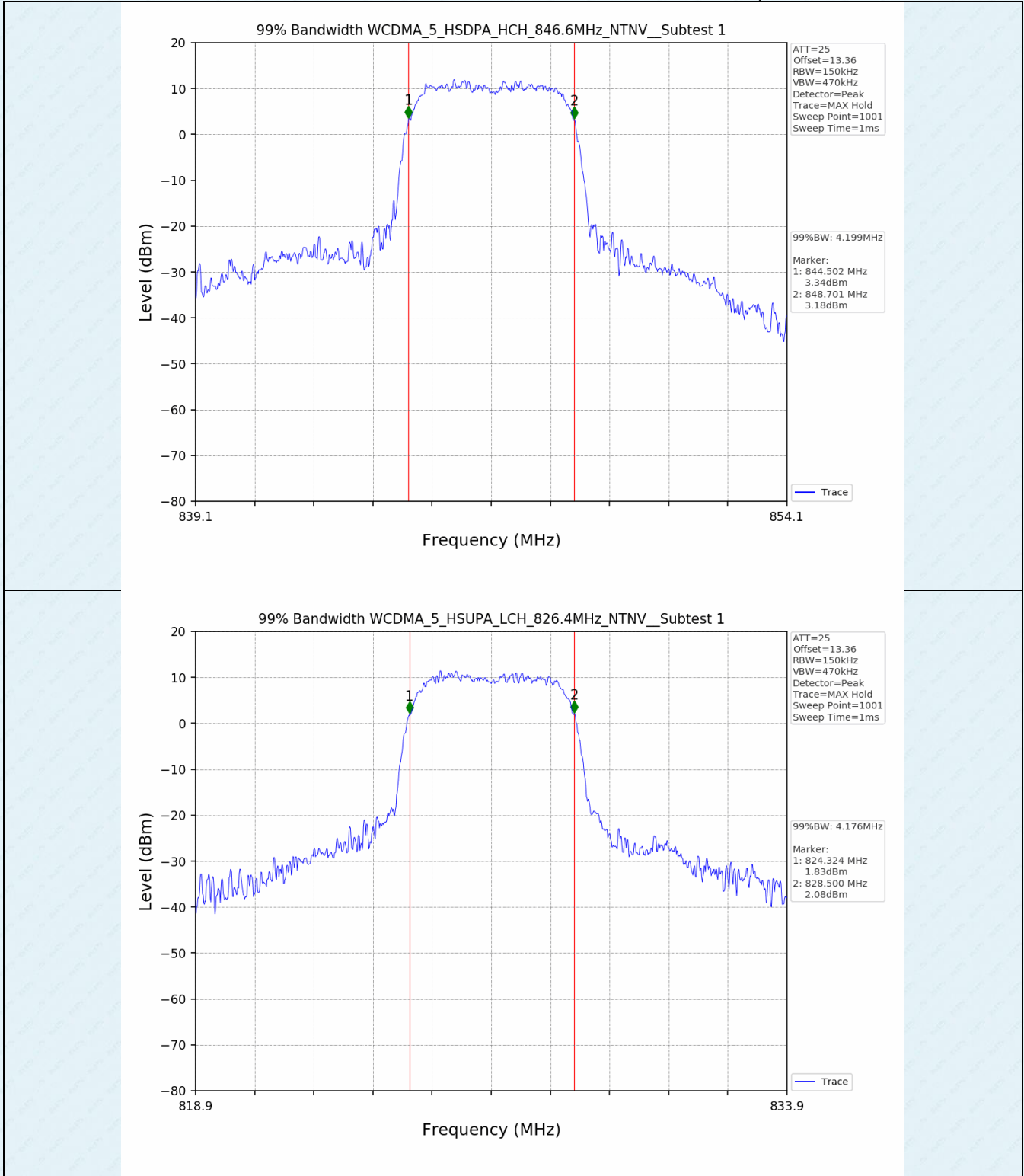
Test Band: 5					
Test Mode	99% Occupied Bandwidth (MHz)			Limit	Verdict
	LCH	MCH	HCH		
HSUPA	4.176	4.147	4.159	N/A	PASS
HSDPA	4.151	4.171	4.199	N/A	PASS
RMC	4.154	4.157	4.146	N/A	PASS

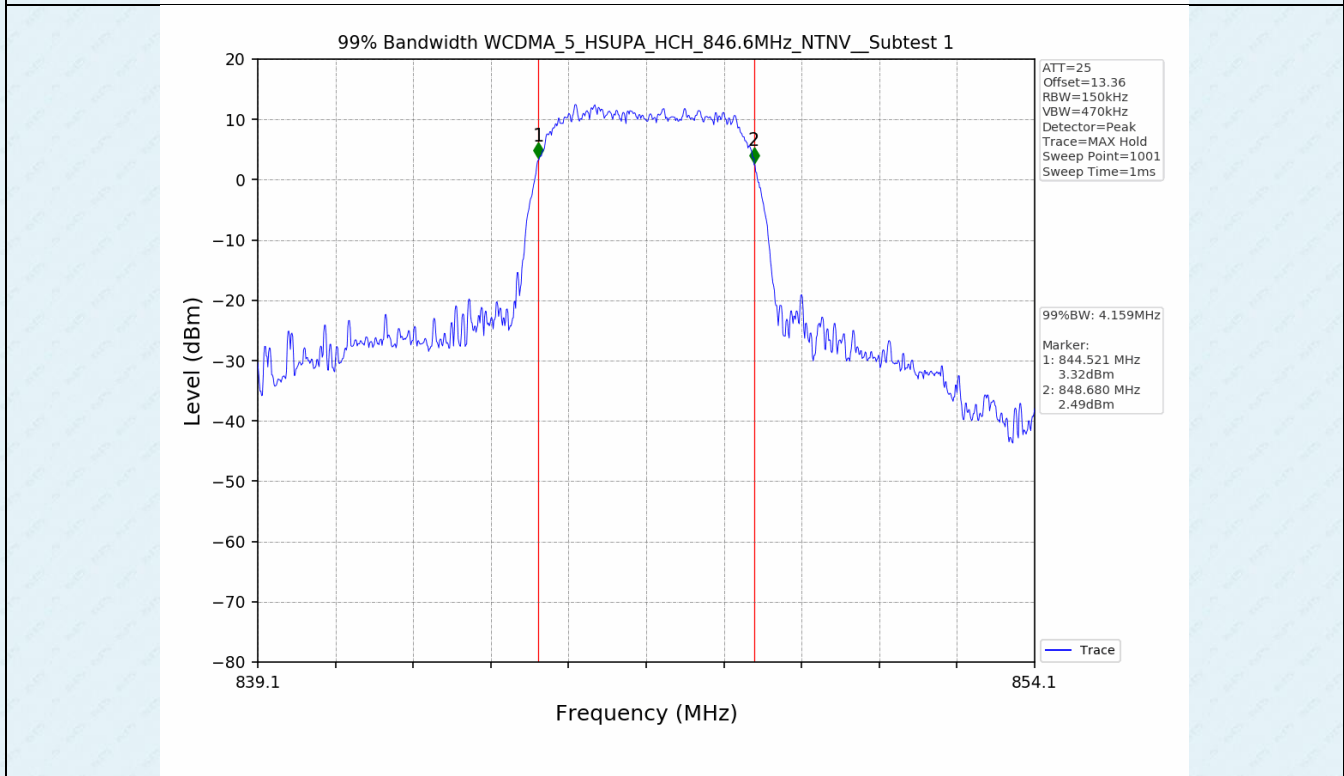
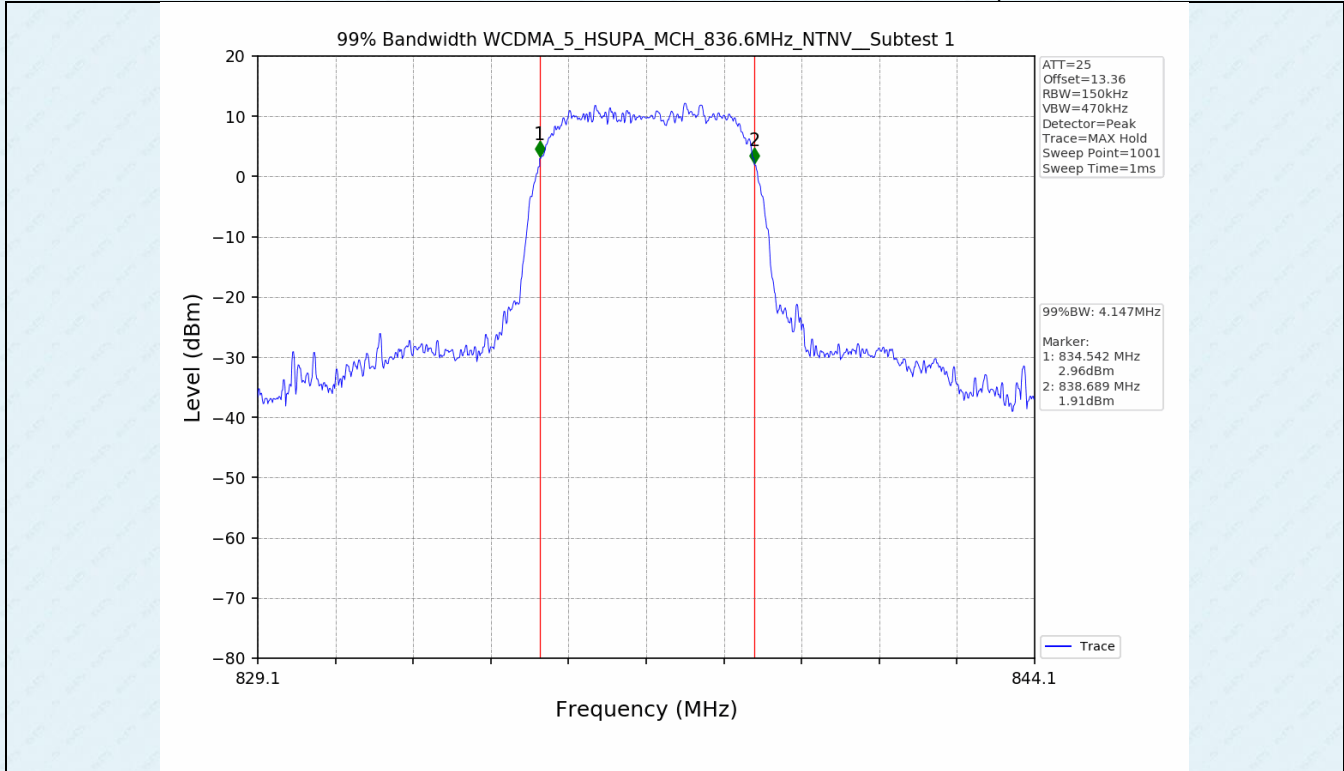
3.2 Test Graph







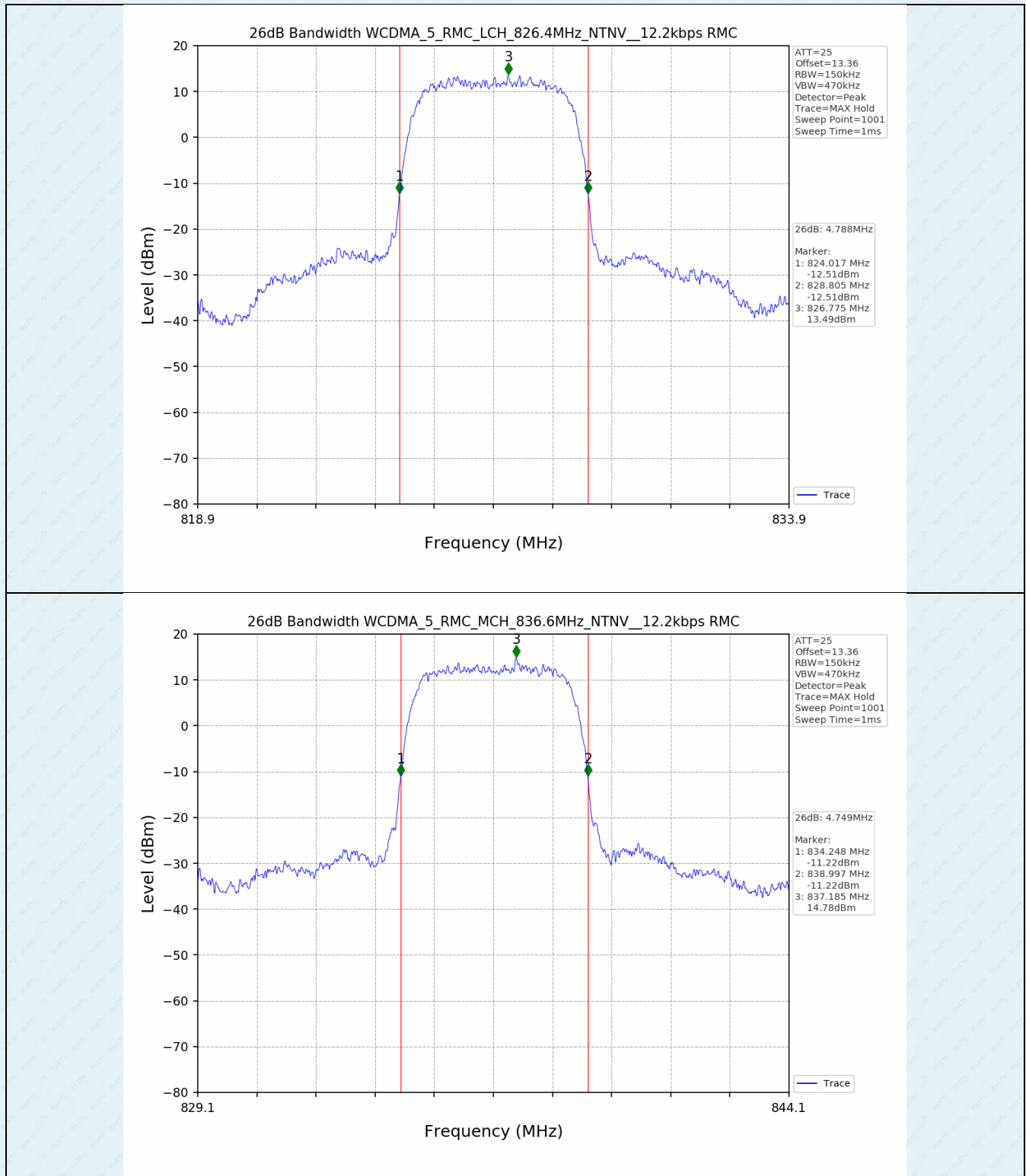


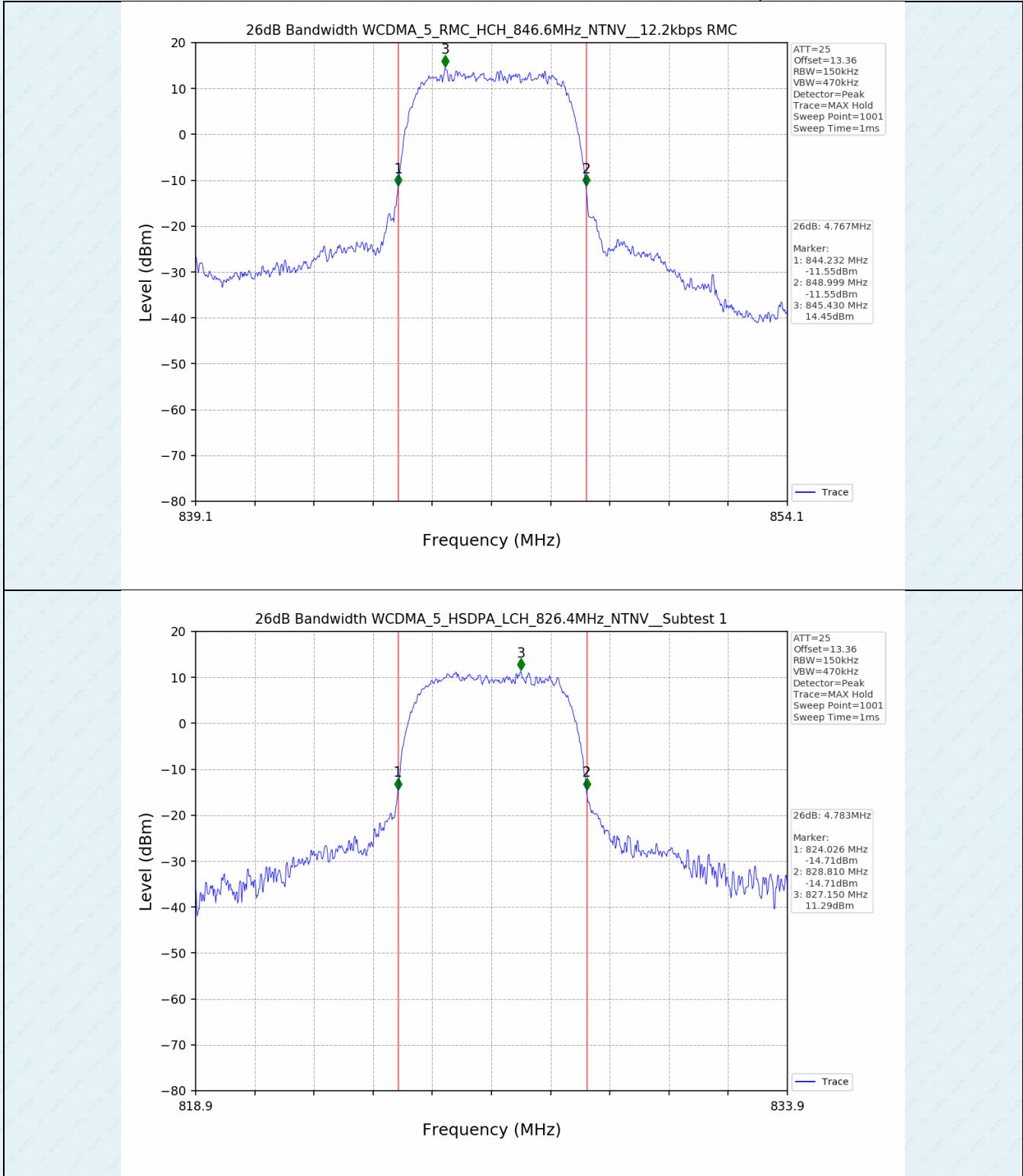


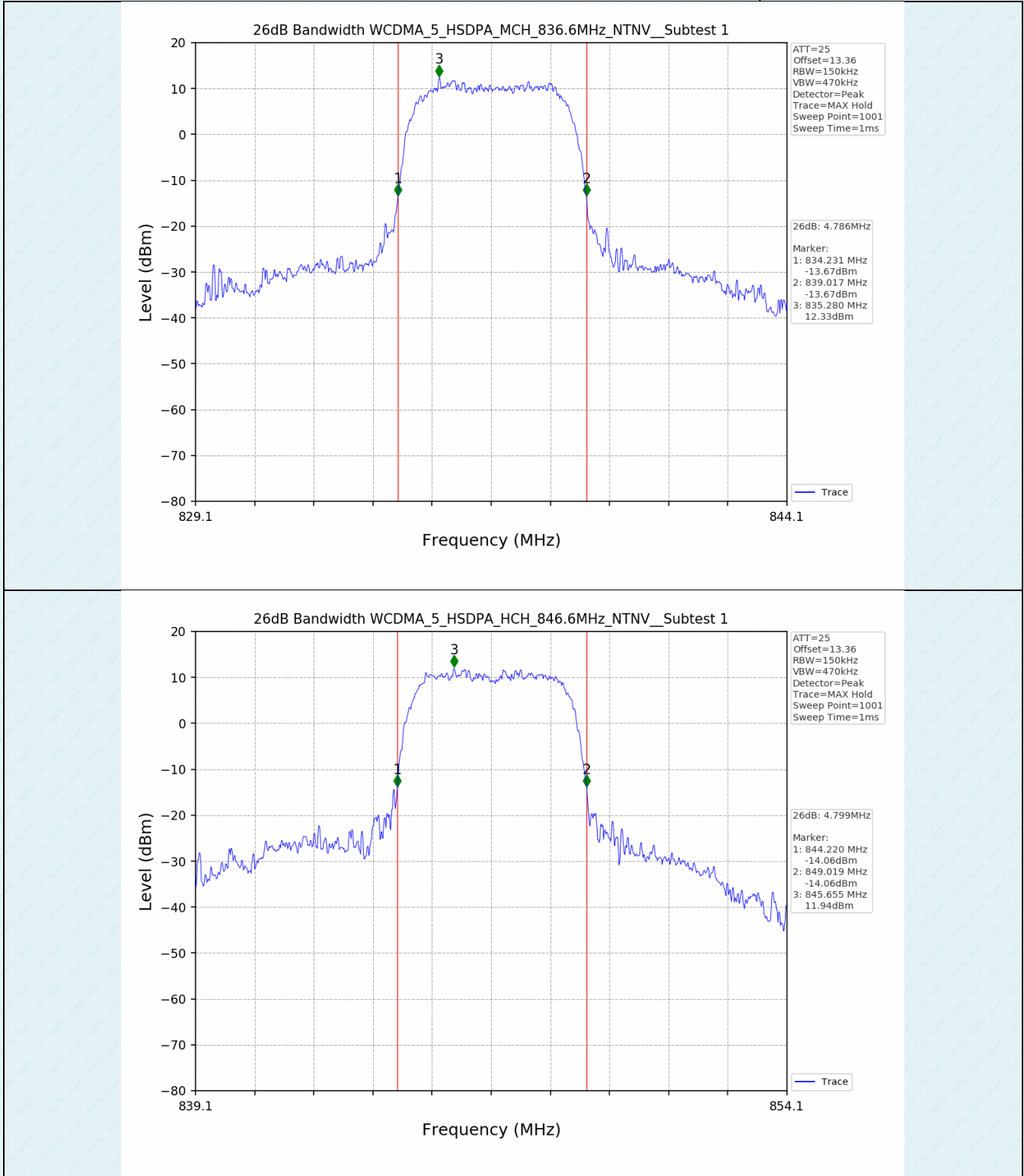
Test Band: 5					
Test Mode	26dB Bandwidth (MHz)			Limit	Verdict
	LCH	MCH	HCH		

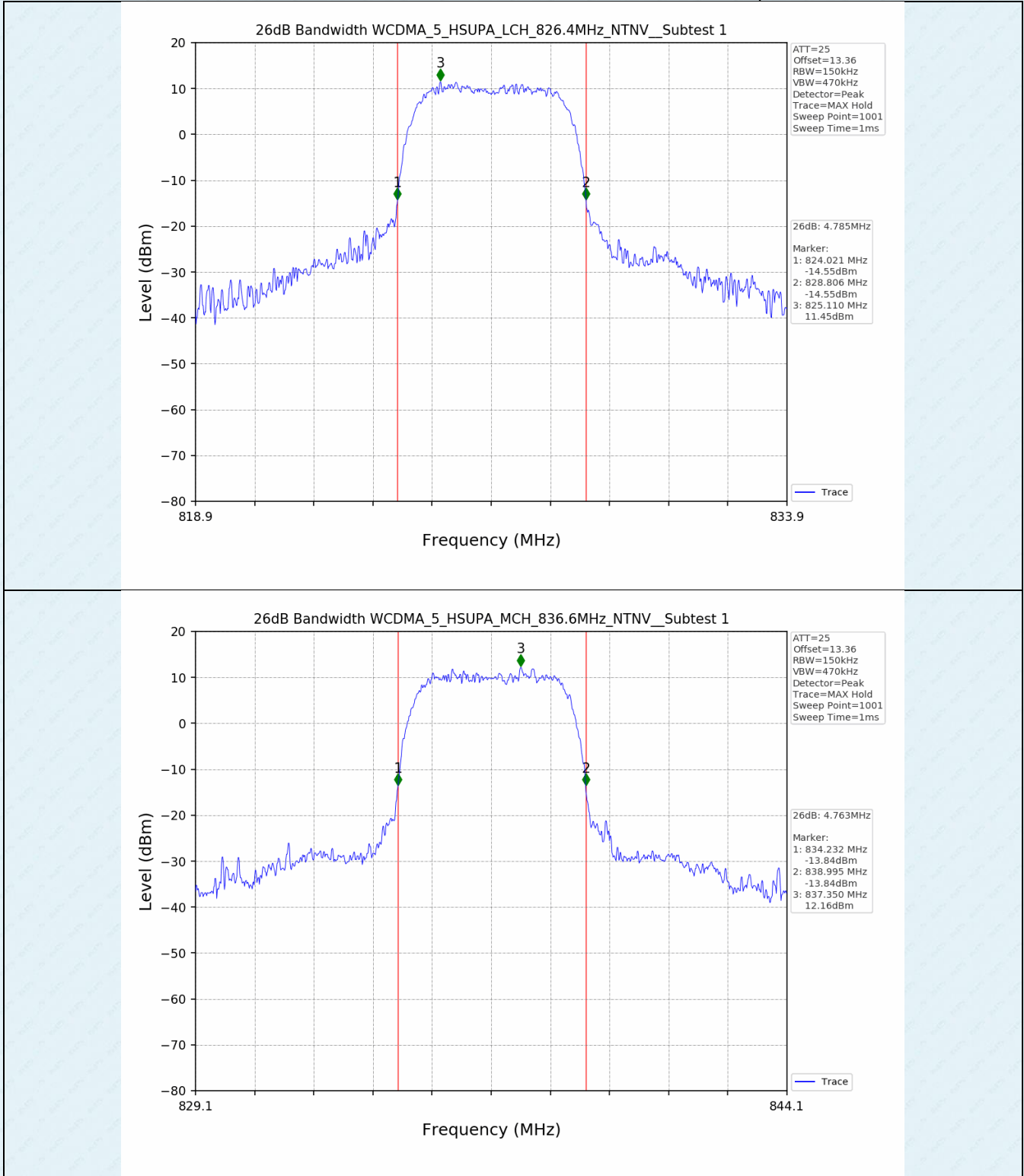
HSUPA	4.785	4.763	4.788	N/A	PASS
HSDPA	4.783	4.786	4.799	N/A	PASS
RMC	4.788	4.749	4.767	N/A	PASS

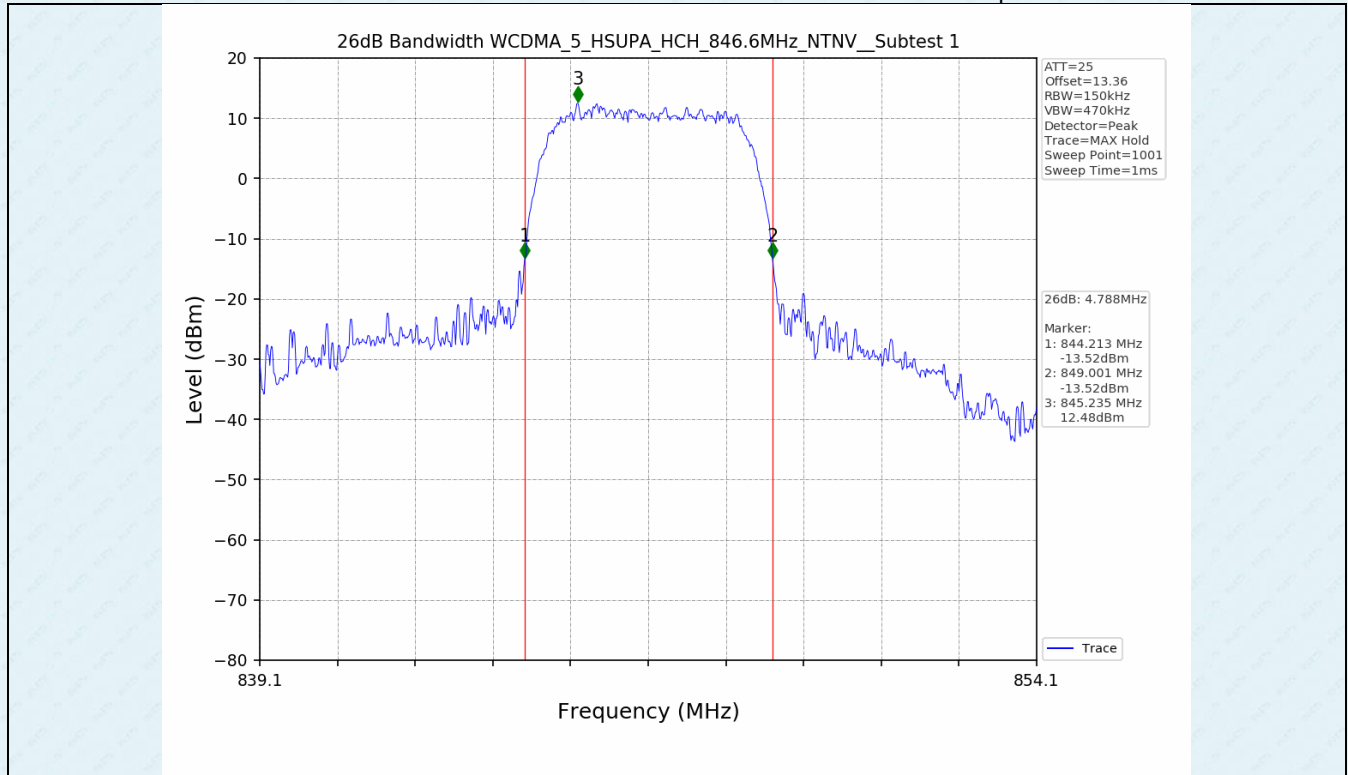
3.2 Test Graph









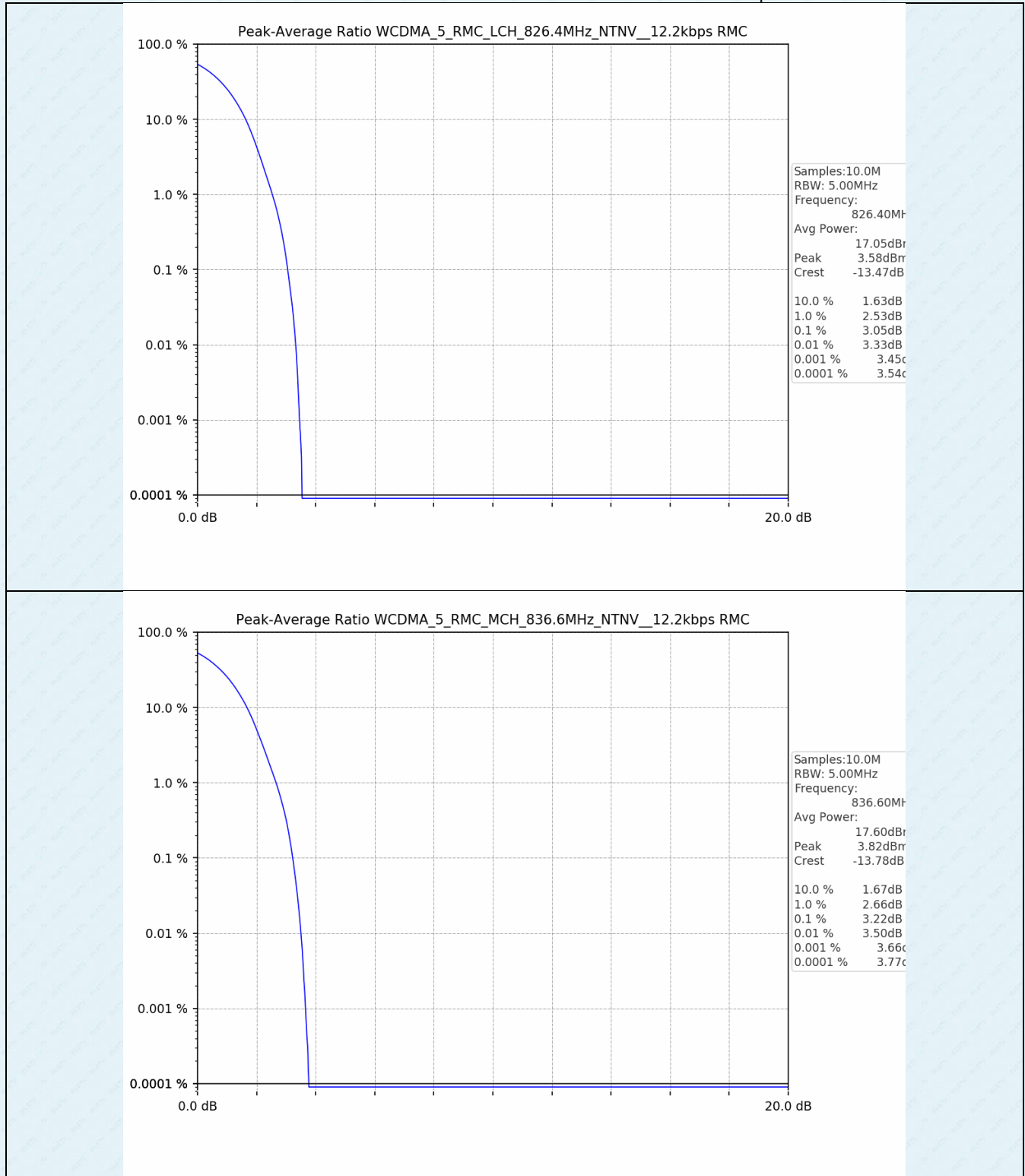


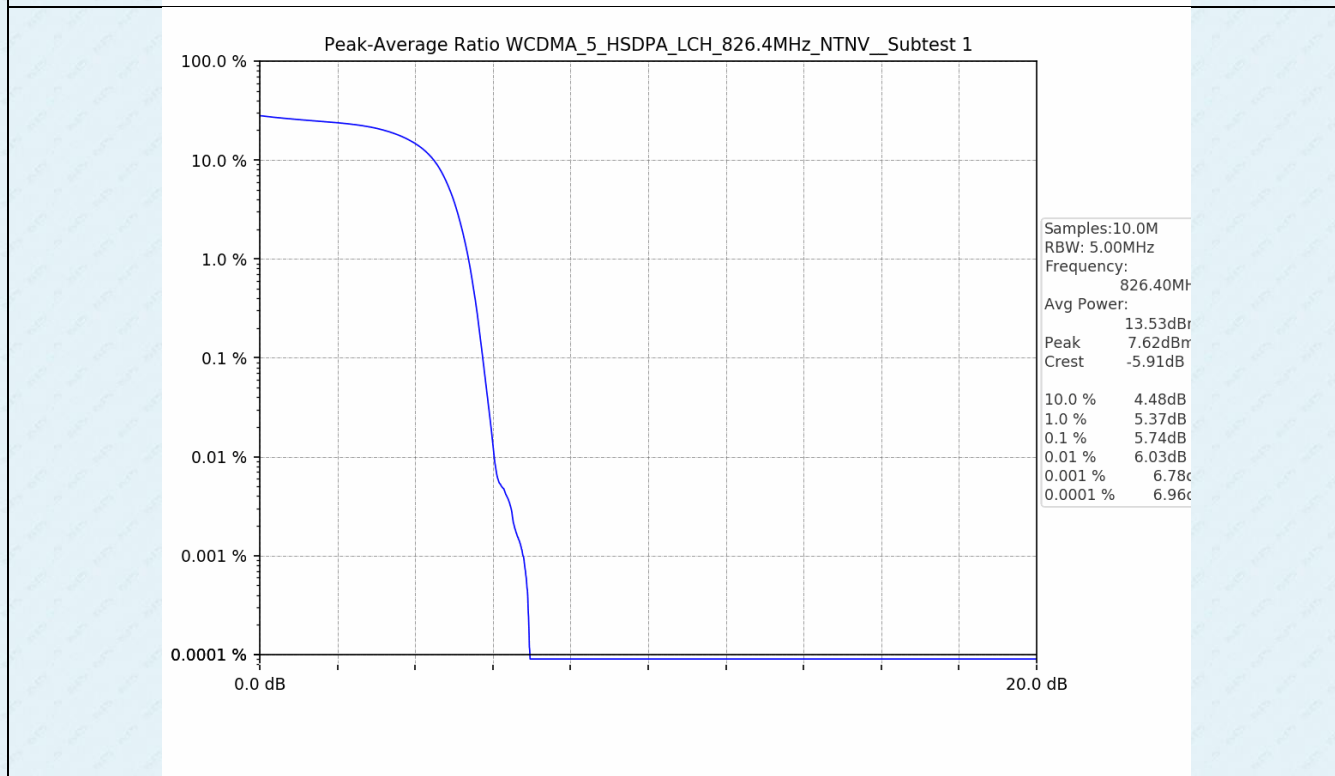
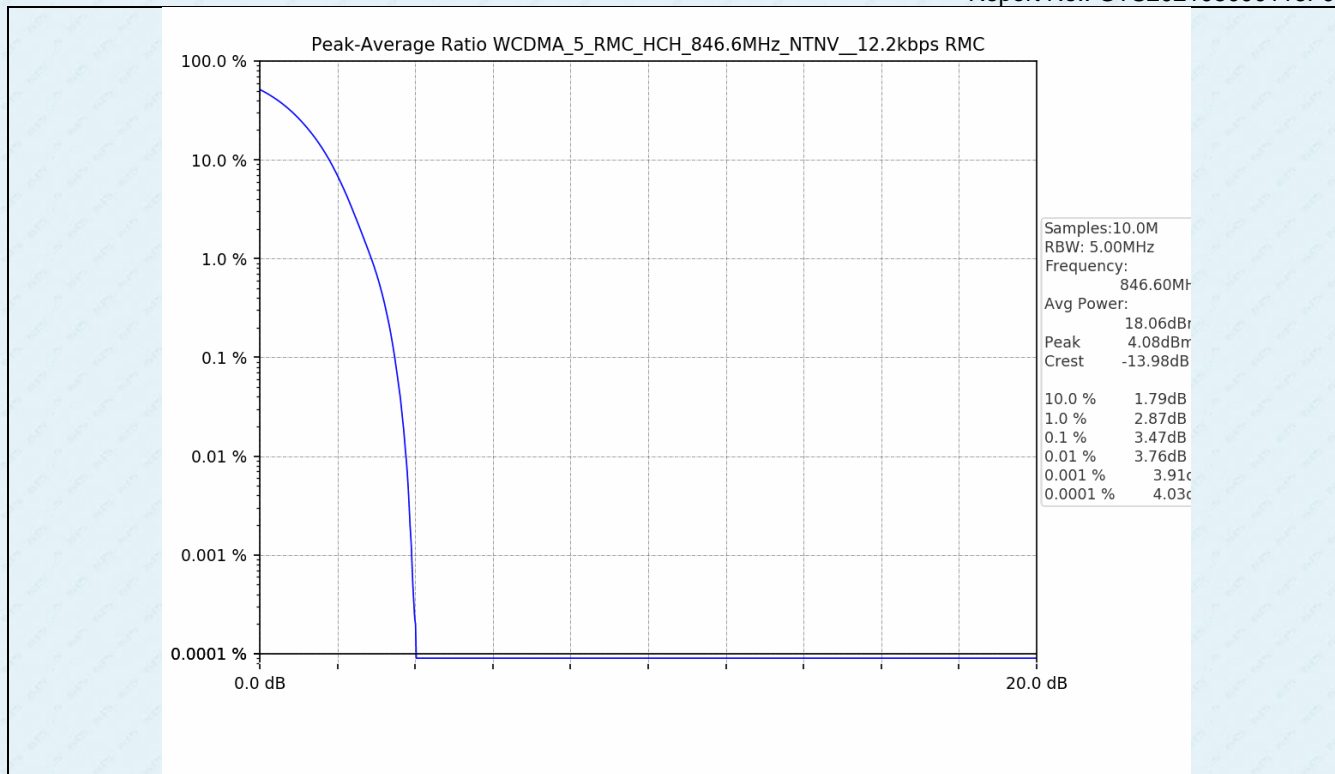
4. Peak-Average Ratio

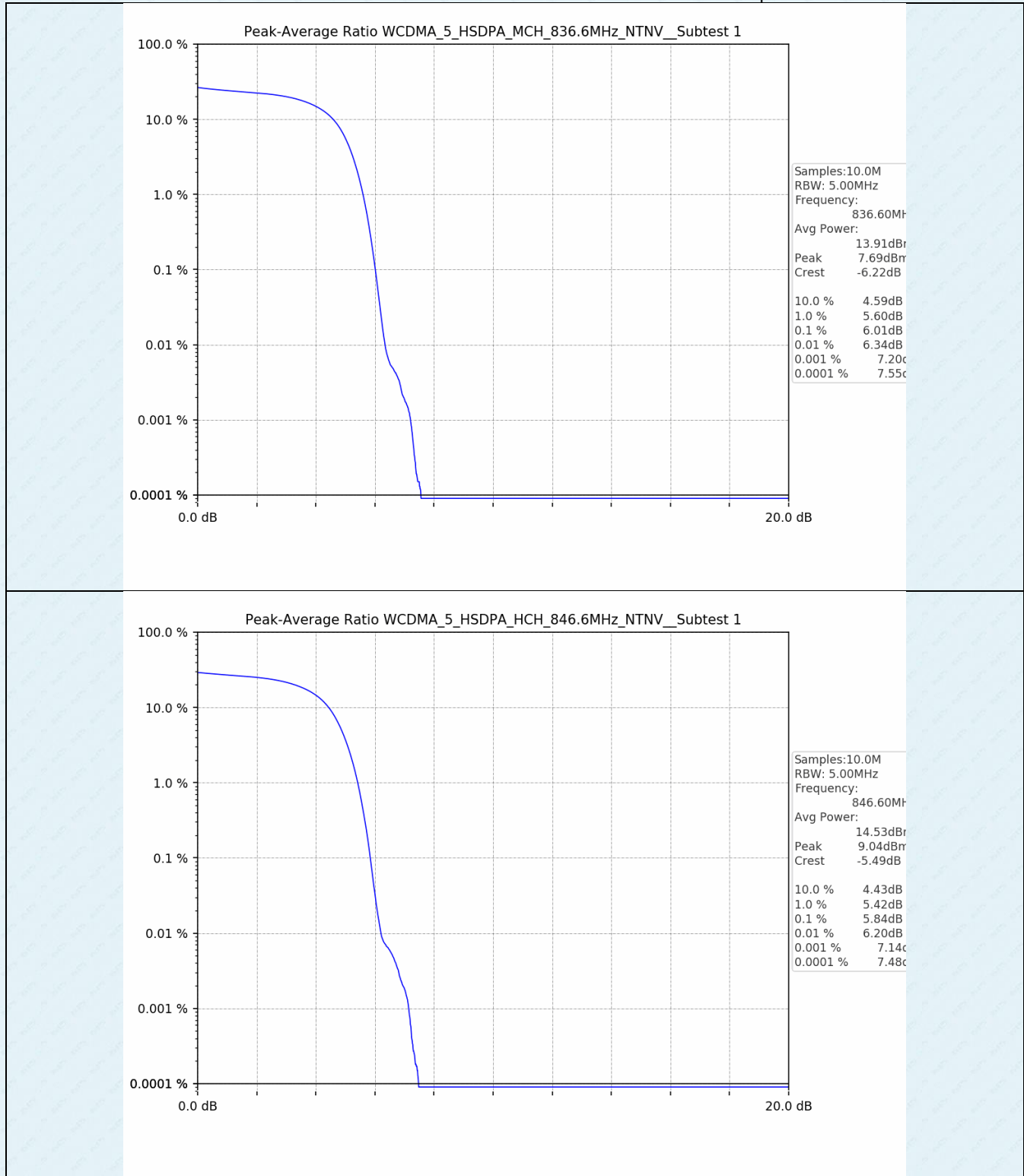
4.1 Test Result

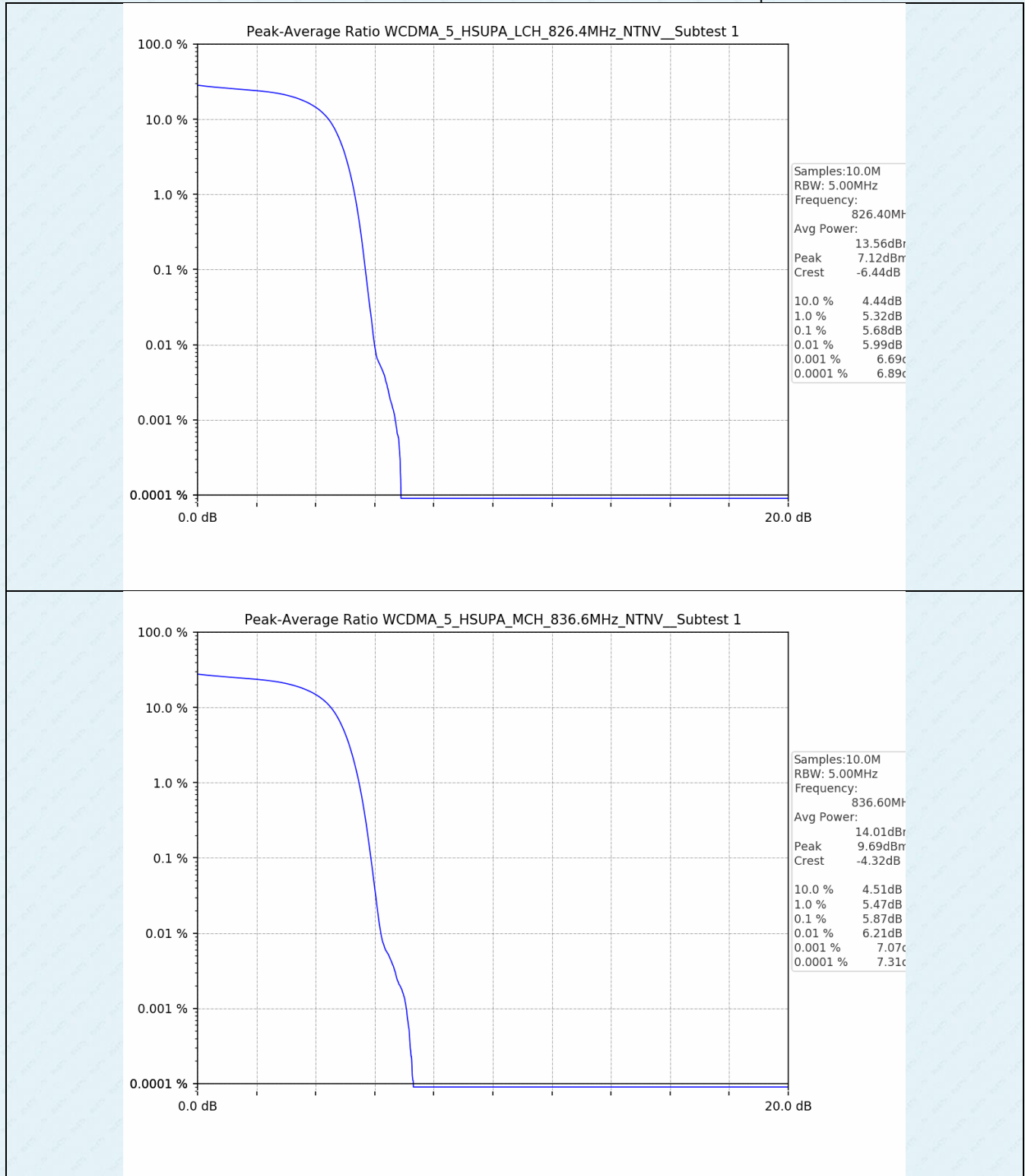
Test Band: 5					
Test Mode	Test result (dB)			Limit (dB)	Verdict
	LCH	MCH	HCH		
HSUPA	5.68	5.87	5.87	13	PASS
HSDPA	5.74	6.01	5.84	13	PASS
RMC	3.05	3.22	3.47	13	PASS

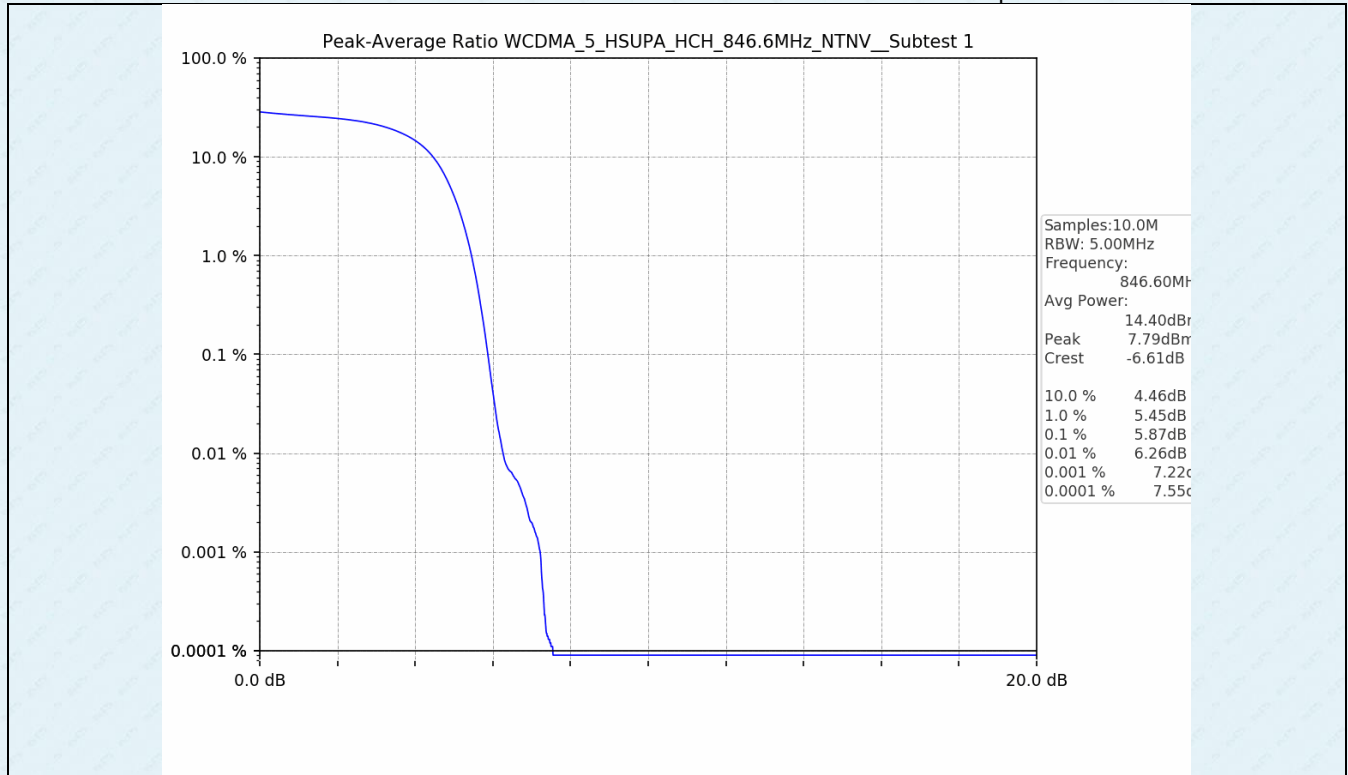
4.2 Test Graph











5. Spurious Emission

5.1 Test Graph

