

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 Band4_EIRP

Band: 4									
ENV	Mode		Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict	
	Network	Subset				Result	Limit		
NTNV	RMC	12.2kbps RMC	1712.4	24.13	-3.50	20.63	<=30	Pass	
			1732.6	24.22	-3.50	20.72	<=30	Pass	
			1752.6	24.11	-3.50	20.61	<=30	Pass	
	HSDPA	Subtest 1	1712.4	22.26	-3.50	18.76	<=30	Pass	
		Subtest 2	1712.4	22.22	-3.50	18.72	<=30	Pass	
		Subtest 3	1712.4	22.13	-3.50	18.63	<=30	Pass	
		Subtest 4	1712.4	22.13	-3.50	18.63	<=30	Pass	
		Subtest 1	1732.6	22.24	-3.50	18.74	<=30	Pass	
		Subtest 2	1732.6	22.25	-3.50	18.75	<=30	Pass	
		Subtest 3	1732.6	22.14	-3.50	18.64	<=30	Pass	
		Subtest 4	1732.6	22.14	-3.50	18.64	<=30	Pass	
		Subtest 1	1752.6	22.33	-3.50	18.83	<=30	Pass	
		Subtest 2	1752.6	22.33	-3.50	18.83	<=30	Pass	
		Subtest 3	1752.6	22.03	-3.50	18.53	<=30	Pass	
		Subtest 4	1752.6	22.03	-3.50	18.53	<=30	Pass	
		HSUPA	Subtest 1	1712.4	20.41	-3.50	16.91	<=30	Pass
			Subtest 2	1712.4	21.42	-3.50	17.92	<=30	Pass
			Subtest 3	1712.4	21.41	-3.50	17.91	<=30	Pass
			Subtest 4	1712.4	20.21	-3.50	16.71	<=30	Pass
			Subtest 5	1712.4	21.26	-3.50	17.76	<=30	Pass
			Subtest 1	1732.6	20.43	-3.50	16.93	<=30	Pass
	Subtest 2		1732.6	20.50	-3.50	17.00	<=30	Pass	
	Subtest 3		1732.6	21.23	-3.50	17.73	<=30	Pass	
	Subtest 4		1732.6	20.48	-3.50	16.98	<=30	Pass	
	Subtest 5		1732.6	21.32	-3.50	17.82	<=30	Pass	
	Subtest 1		1752.6	20.91	-3.50	17.41	<=30	Pass	
	Subtest 2		1752.6	20.24	-3.50	16.74	<=30	Pass	
	Subtest 3		1752.6	21.72	-3.50	18.22	<=30	Pass	
	Subtest 4		1752.6	20.91	-3.50	17.41	<=30	Pass	
	Subtest 5	1752.6	21.21	-3.50	17.71	<=30	Pass		
Note1: EIRP=Conducted Power+Antenna Gain									

2. Frequency Stability

2.1 Test Result

2.1.1 Band4

Band: 4							
Network	Frequency (MHz)	Temp. (°C)	Voltage	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
RMC	1712.4	20	LV	5.523	0.0032	-2.5 to 2.5	Pass
			NV	0.884	0.0005	-2.5 to 2.5	Pass
			HV	1.193	0.0007	-2.5 to 2.5	Pass
		-30	NV	0.048	0.0000	-2.5 to 2.5	Pass
		-20	NV	0.825	0.0005	-2.5 to 2.5	Pass
		-10	NV	0.514	0.0003	-2.5 to 2.5	Pass
		0	NV	0.687	0.0004	-2.5 to 2.5	Pass
		10	NV	0.823	0.0005	-2.5 to 2.5	Pass
		30	NV	0.660	0.0004	-2.5 to 2.5	Pass
		40	NV	0.562	0.0003	-2.5 to 2.5	Pass

	1732.6	50	NV	1.683	0.0010	-2.5 to 2.5	Pass
		20	LV	-1.017	-0.0006	-2.5 to 2.5	Pass
			NV	1.445	0.0008	-2.5 to 2.5	Pass
			HV	-0.074	0.0000	-2.5 to 2.5	Pass
		-30	NV	-1.403	-0.0008	-2.5 to 2.5	Pass
		-20	NV	1.283	0.0007	-2.5 to 2.5	Pass
		-10	NV	-0.431	-0.0002	-2.5 to 2.5	Pass
		0	NV	0.594	0.0003	-2.5 to 2.5	Pass
		10	NV	0.031	0.0000	-2.5 to 2.5	Pass
		30	NV	1.102	0.0006	-2.5 to 2.5	Pass
		40	NV	1.507	0.0009	-2.5 to 2.5	Pass
		50	NV	-0.462	-0.0003	-2.5 to 2.5	Pass
	1752.6	20	LV	-1.695	-0.0010	-2.5 to 2.5	Pass
			NV	-1.010	-0.0006	-2.5 to 2.5	Pass
			HV	-3.693	-0.0021	-2.5 to 2.5	Pass
		-30	NV	-0.883	-0.0005	-2.5 to 2.5	Pass
		-20	NV	-3.028	-0.0017	-2.5 to 2.5	Pass
		-10	NV	-1.930	-0.0011	-2.5 to 2.5	Pass
		0	NV	-0.069	0.0000	-2.5 to 2.5	Pass
		10	NV	0.507	0.0003	-2.5 to 2.5	Pass
		30	NV	-0.946	-0.0005	-2.5 to 2.5	Pass
		40	NV	-2.259	-0.0013	-2.5 to 2.5	Pass
		50	NV	-2.835	-0.0016	-2.5 to 2.5	Pass
HSDPA	1712.4	20	LV	2.322	0.0014	-2.5 to 2.5	Pass
			NV	2.876	0.0017	-2.5 to 2.5	Pass
			HV	1.416	0.0008	-2.5 to 2.5	Pass
		-30	NV	4.101	0.0024	-2.5 to 2.5	Pass
		-20	NV	2.694	0.0016	-2.5 to 2.5	Pass
		-10	NV	0.535	0.0003	-2.5 to 2.5	Pass
		0	NV	5.442	0.0032	-2.5 to 2.5	Pass
		10	NV	2.842	0.0017	-2.5 to 2.5	Pass
		30	NV	3.934	0.0023	-2.5 to 2.5	Pass
		40	NV	2.713	0.0016	-2.5 to 2.5	Pass
		50	NV	1.231	0.0007	-2.5 to 2.5	Pass
	1732.6	20	LV	-0.865	-0.0005	-2.5 to 2.5	Pass
			NV	0.969	0.0006	-2.5 to 2.5	Pass
			HV	-0.313	-0.0002	-2.5 to 2.5	Pass
		-30	NV	-0.677	-0.0004	-2.5 to 2.5	Pass
		-20	NV	3.107	0.0018	-2.5 to 2.5	Pass
		-10	NV	1.176	0.0007	-2.5 to 2.5	Pass
		0	NV	1.678	0.0010	-2.5 to 2.5	Pass
		10	NV	0.354	0.0002	-2.5 to 2.5	Pass
		30	NV	-1.351	-0.0008	-2.5 to 2.5	Pass
		40	NV	0.491	0.0003	-2.5 to 2.5	Pass
		50	NV	-0.371	-0.0002	-2.5 to 2.5	Pass
	1752.6	20	LV	-3.340	-0.0019	-2.5 to 2.5	Pass
			NV	-4.212	-0.0024	-2.5 to 2.5	Pass
			HV	-3.733	-0.0021	-2.5 to 2.5	Pass
		-30	NV	-2.500	-0.0014	-2.5 to 2.5	Pass
		-20	NV	-4.408	-0.0025	-2.5 to 2.5	Pass
		-10	NV	0.309	0.0002	-2.5 to 2.5	Pass
		0	NV	-0.274	-0.0002	-2.5 to 2.5	Pass
		10	NV	-0.121	-0.0001	-2.5 to 2.5	Pass
		30	NV	-1.384	-0.0008	-2.5 to 2.5	Pass
		40	NV	-3.354	-0.0019	-2.5 to 2.5	Pass
		50	NV	-3.019	-0.0017	-2.5 to 2.5	Pass
HSUPA	1712.4	20	LV	4.955	0.0029	-2.5 to 2.5	Pass
			NV	2.843	0.0017	-2.5 to 2.5	Pass
			HV	2.090	0.0012	-2.5 to 2.5	Pass
		-30	NV	2.847	0.0017	-2.5 to 2.5	Pass
		-20	NV	4.717	0.0028	-2.5 to 2.5	Pass
		-10	NV	2.563	0.0015	-2.5 to 2.5	Pass
		0	NV	6.373	0.0037	-2.5 to 2.5	Pass
		10	NV	5.813	0.0034	-2.5 to 2.5	Pass

		30	NV	4.986	0.0029	-2.5 to 2.5	Pass
		40	NV	2.887	0.0017	-2.5 to 2.5	Pass
		50	NV	6.606	0.0039	-2.5 to 2.5	Pass
	1732.6	20	LV	4.242	0.0024	-2.5 to 2.5	Pass
			NV	1.152	0.0007	-2.5 to 2.5	Pass
			HV	1.763	0.0010	-2.5 to 2.5	Pass
		-30	NV	1.433	0.0008	-2.5 to 2.5	Pass
		-20	NV	3.689	0.0021	-2.5 to 2.5	Pass
		-10	NV	2.079	0.0012	-2.5 to 2.5	Pass
		0	NV	2.203	0.0013	-2.5 to 2.5	Pass
		10	NV	0.906	0.0005	-2.5 to 2.5	Pass
		30	NV	-0.756	-0.0004	-2.5 to 2.5	Pass
		40	NV	1.243	0.0007	-2.5 to 2.5	Pass
		50	NV	1.787	0.0010	-2.5 to 2.5	Pass
	1752.6	20	LV	-0.441	-0.0003	-2.5 to 2.5	Pass
			NV	-0.892	-0.0005	-2.5 to 2.5	Pass
			HV	-0.426	-0.0002	-2.5 to 2.5	Pass
		-30	NV	-3.449	-0.0020	-2.5 to 2.5	Pass
		-20	NV	-0.934	-0.0005	-2.5 to 2.5	Pass
		-10	NV	-2.008	-0.0011	-2.5 to 2.5	Pass
		0	NV	-1.300	-0.0007	-2.5 to 2.5	Pass
		10	NV	-2.089	-0.0012	-2.5 to 2.5	Pass
		30	NV	-0.490	-0.0003	-2.5 to 2.5	Pass
		40	NV	-3.311	-0.0019	-2.5 to 2.5	Pass
		50	NV	0.105	0.0001	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 Band4_OBW

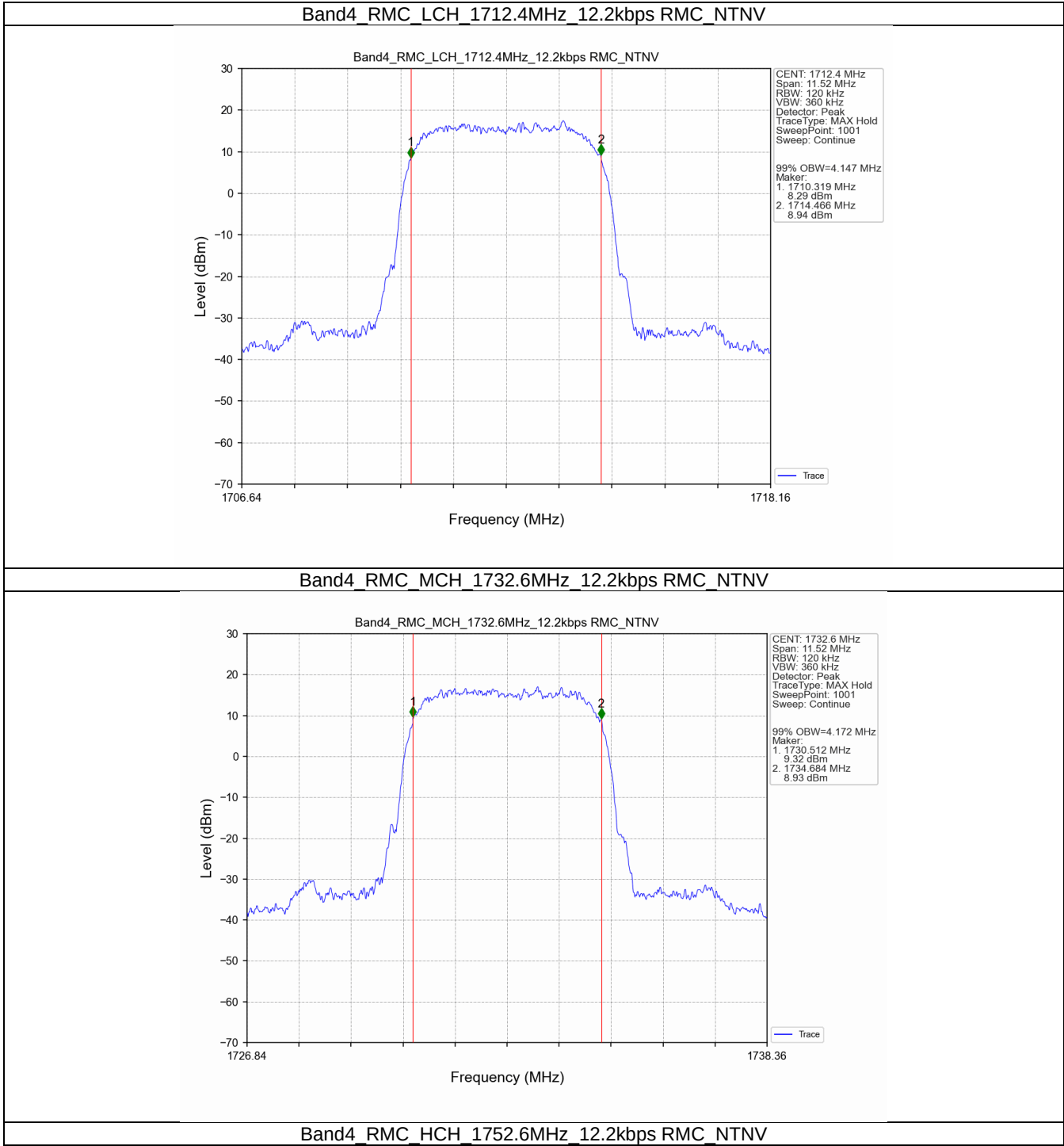
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ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	4.147	/	Pass
			1732.6	4.172	/	Pass
			1752.6	4.163	/	Pass
	HSDPA	Subtest 1	1712.4	4.162	/	Pass
			1732.6	4.153	/	Pass
			1752.6	4.151	/	Pass
	HSUPA	Subtest 1	1712.4	4.163	/	Pass
			1732.6	4.175	/	Pass
			1752.6	4.162	/	Pass

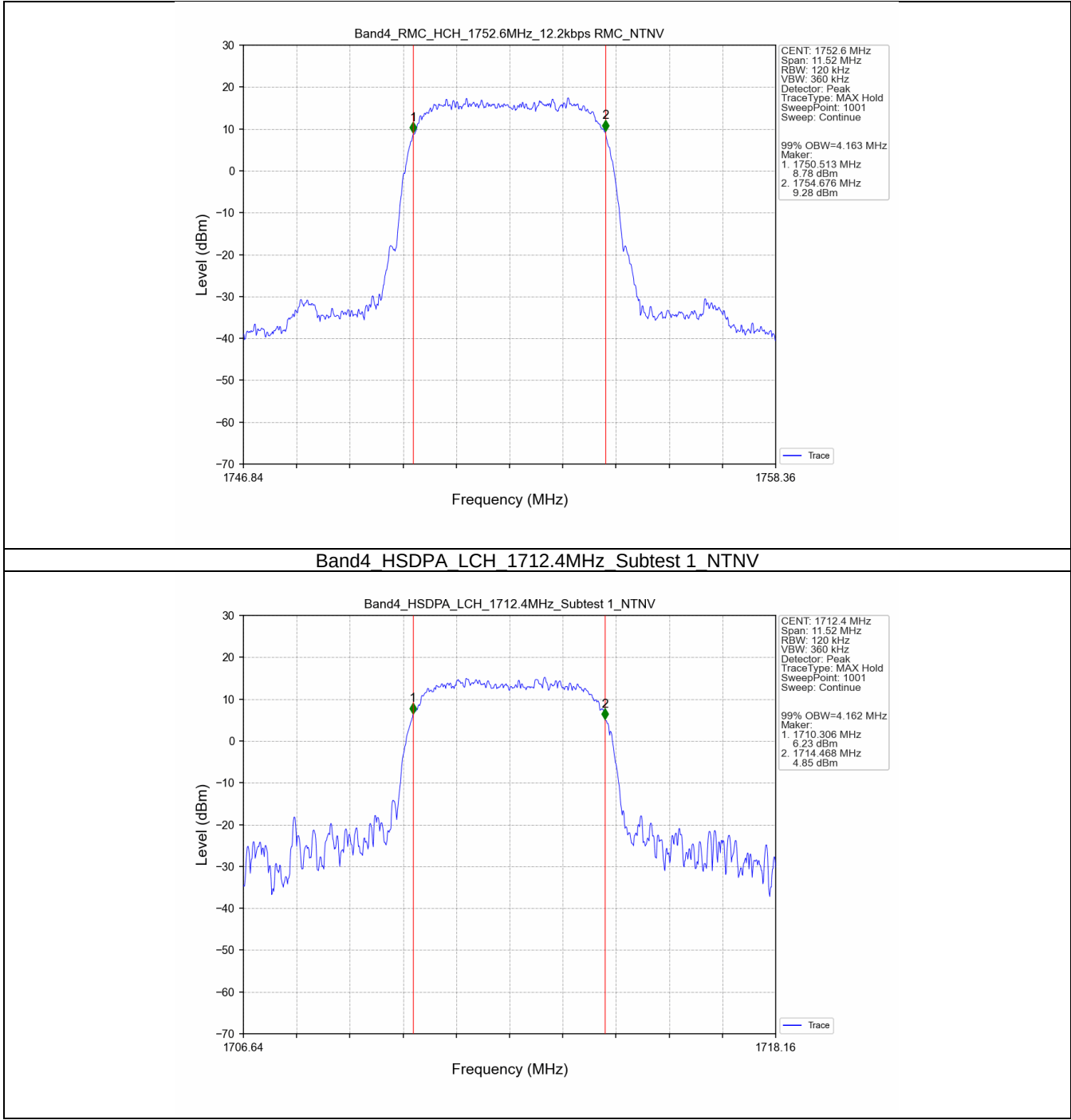
3.1.2 Band4_XDB

Band: 4						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	4.719	/	Pass
			1732.6	4.738	/	Pass
			1752.6	4.741	/	Pass
	HSDPA	Subtest 1	1712.4	4.744	/	Pass
			1732.6	4.753	/	Pass
			1752.6	4.740	/	Pass
	HSUPA	Subtest 1	1712.4	4.732	/	Pass
			1732.6	4.704	/	Pass
			1752.6	4.719	/	Pass

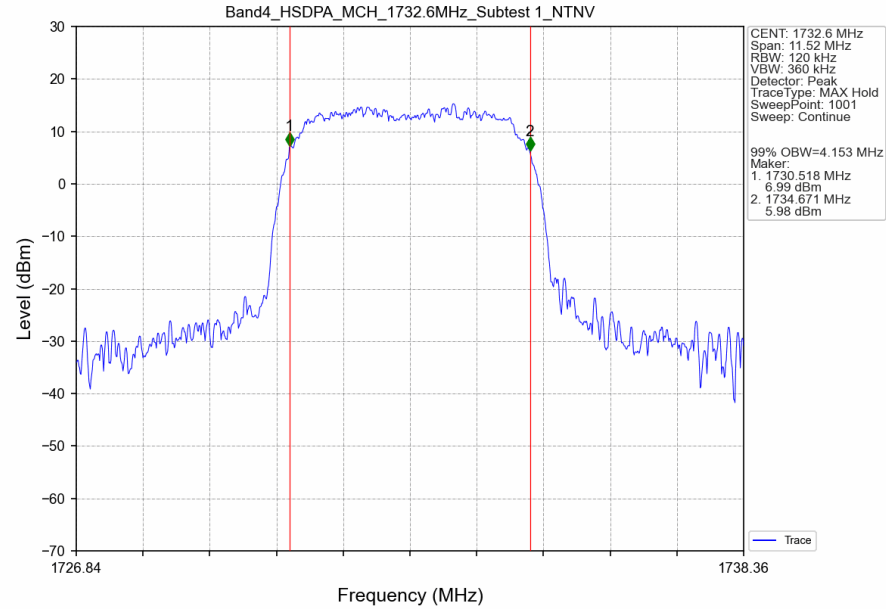
3.2 Test Graph

3.2.1 Band4_OBW

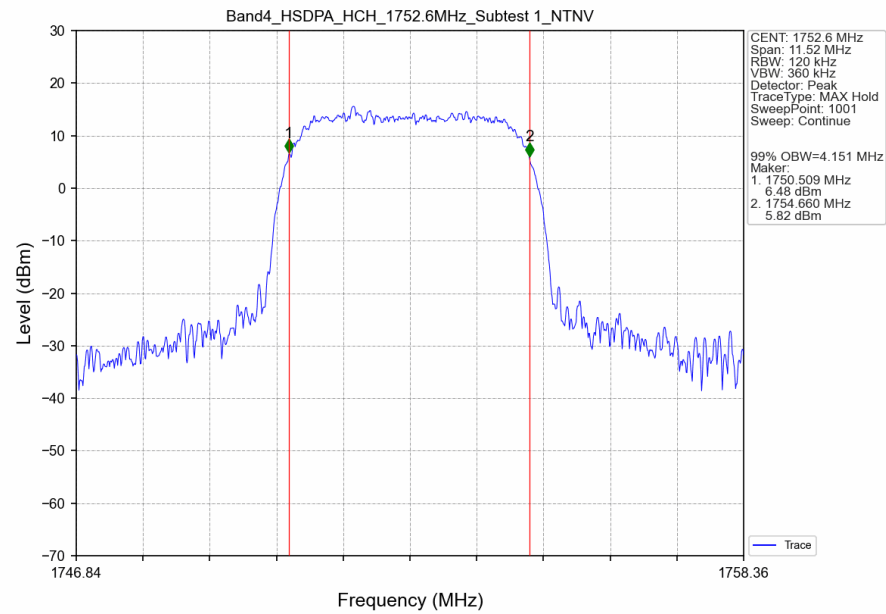




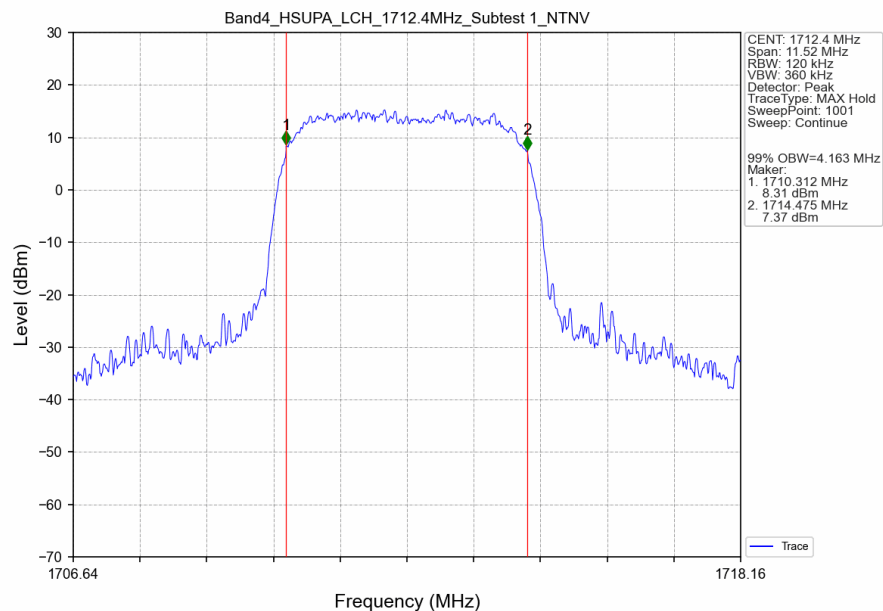
Band4_HSDPA_MCH_1732.6MHz_Subtest 1_NTNV



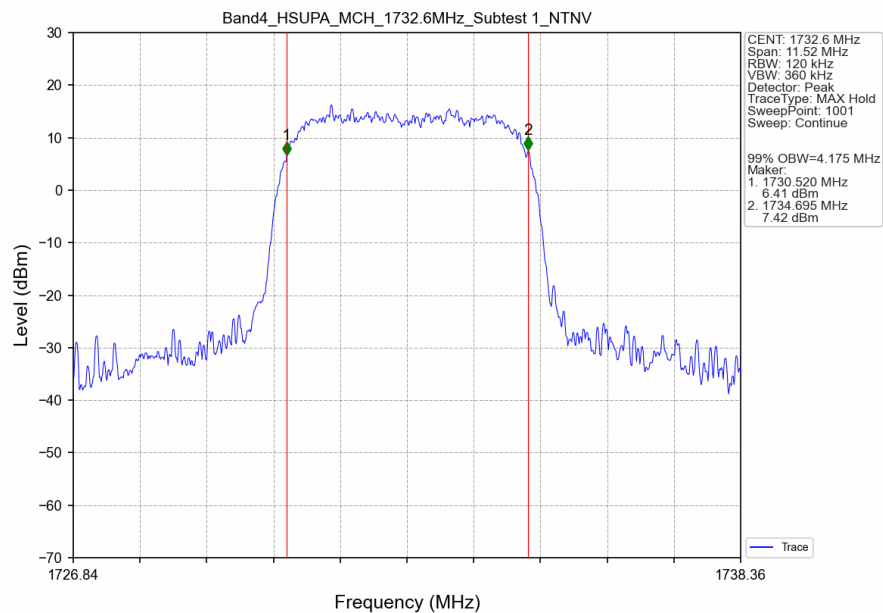
Band4_HSDPA_HCH_1752.6MHz_Subtest 1_NTNV

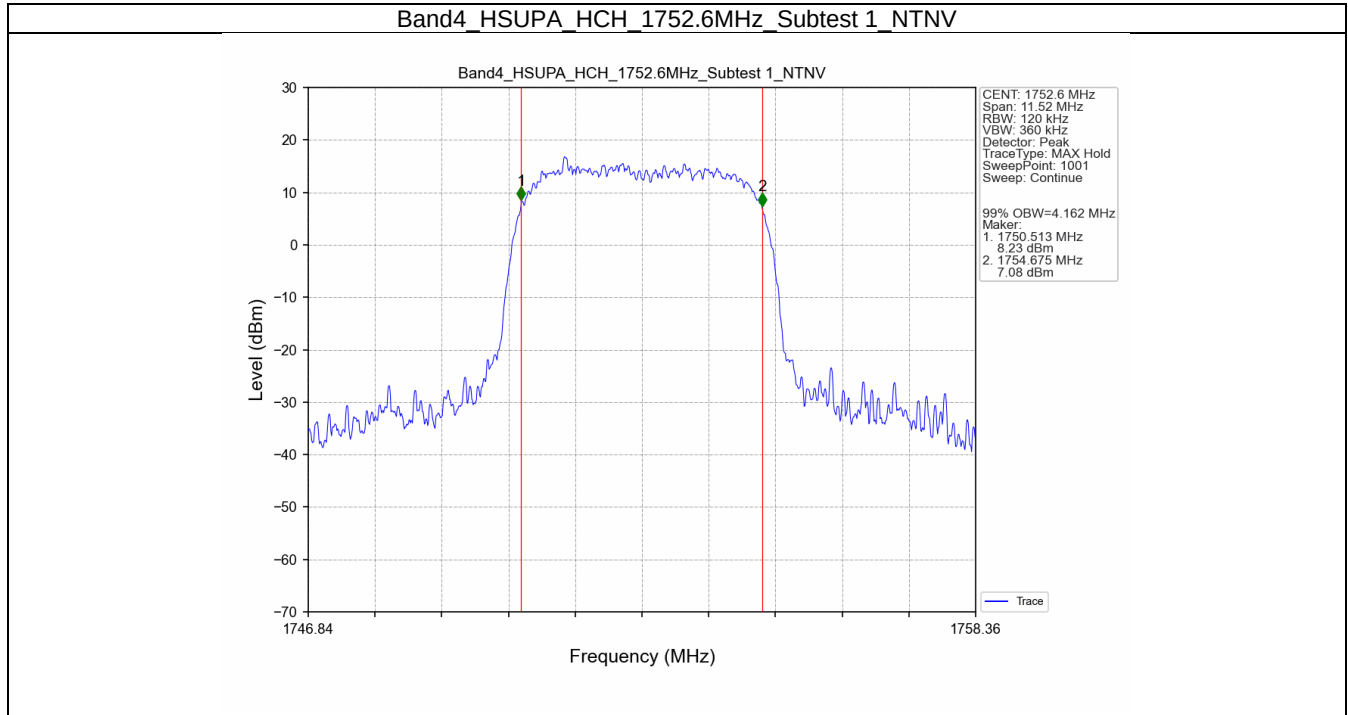


Band4_HSUPA_LCH_1712.4MHz_Subtest 1_NTNV

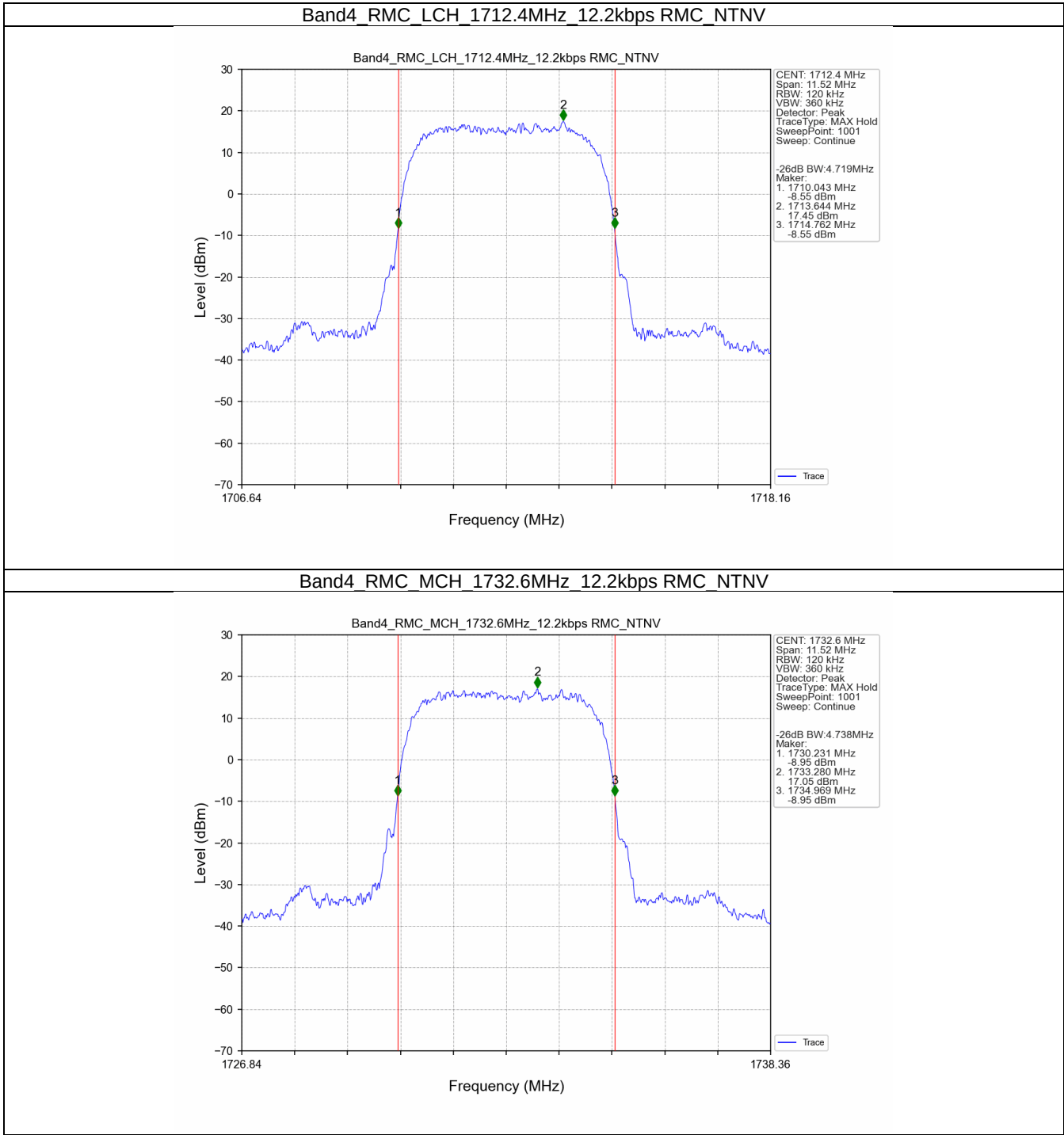


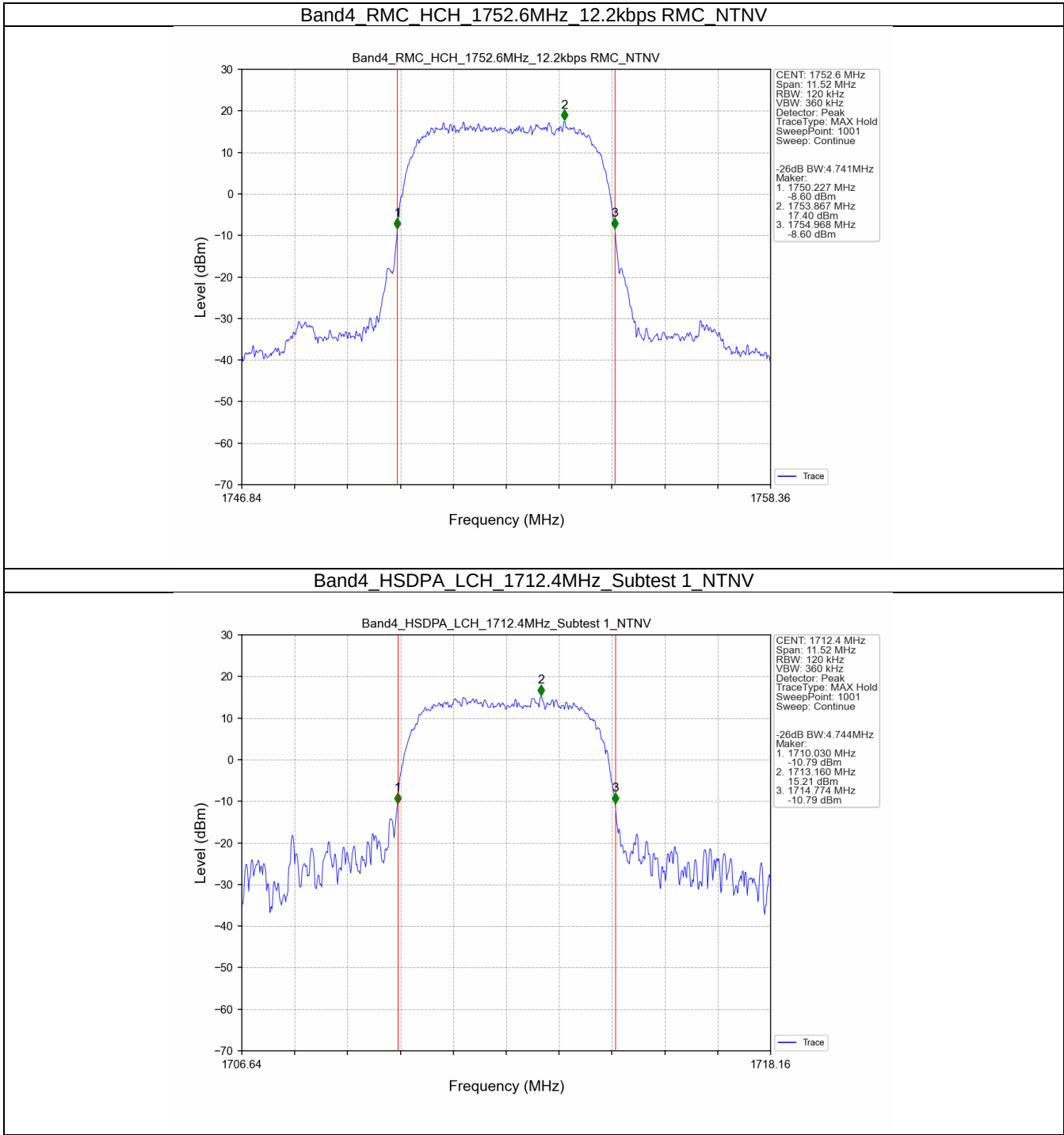
Band4_HSUPA_MCH_1732.6MHz_Subtest 1_NTNV

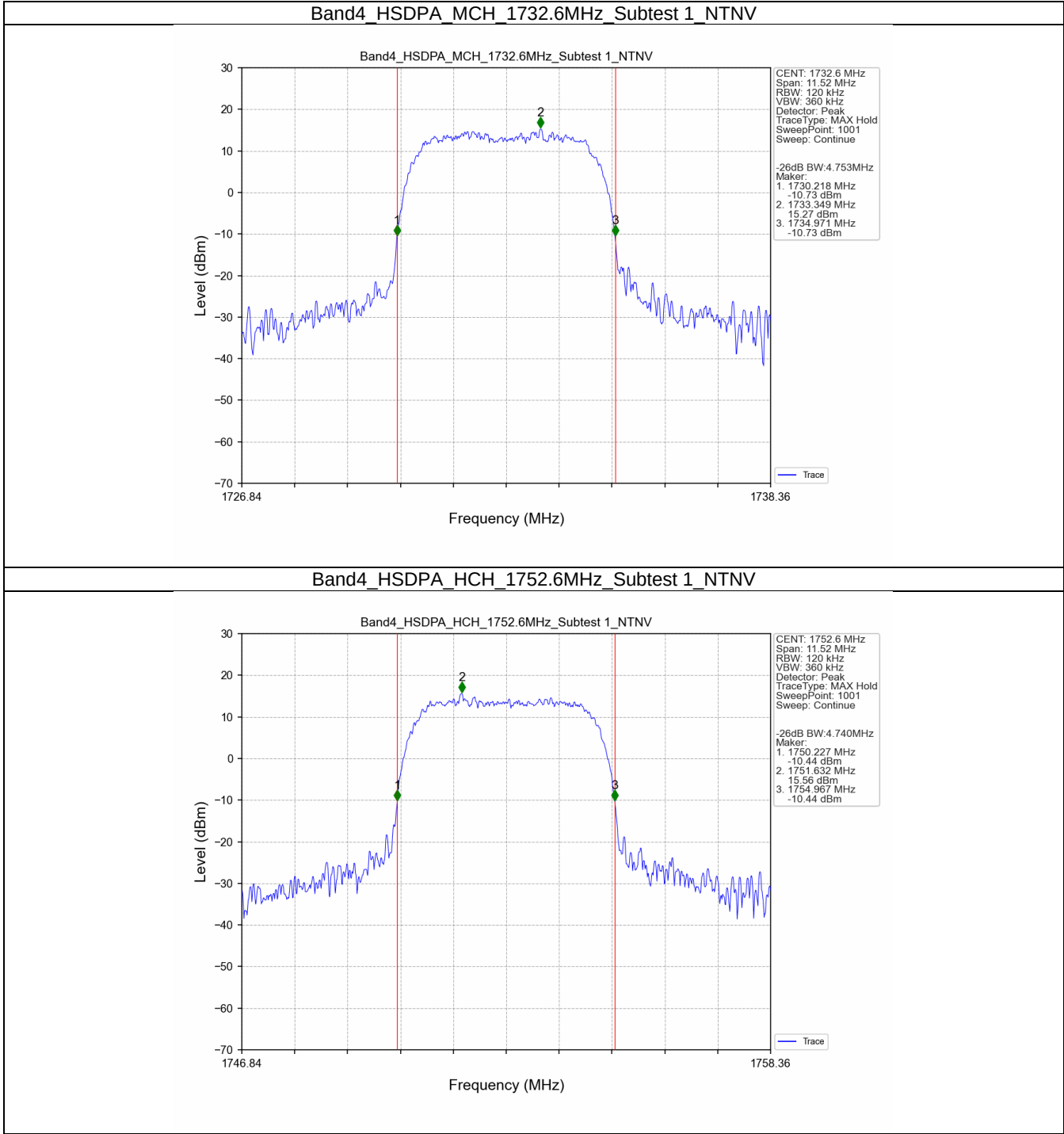


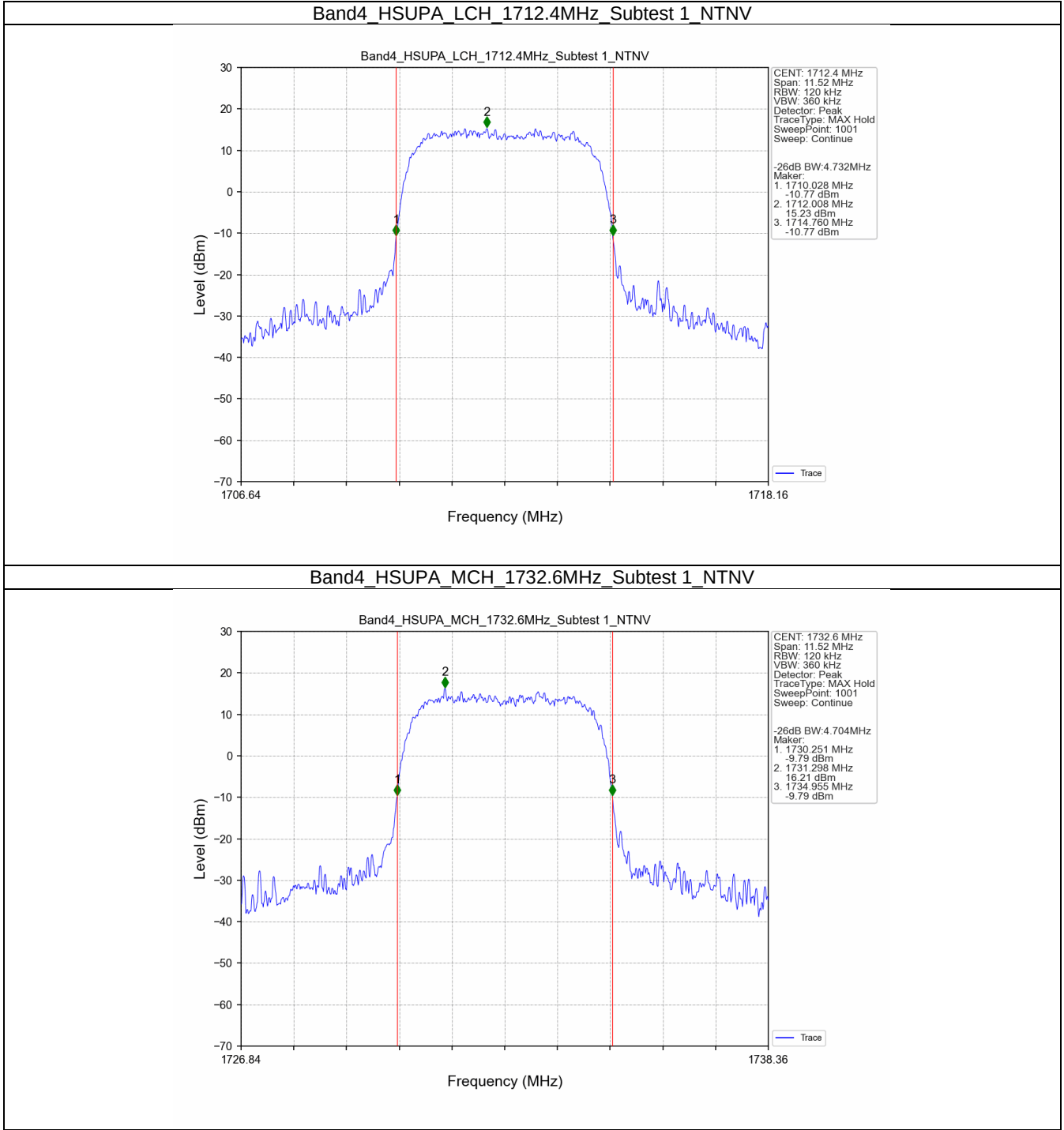


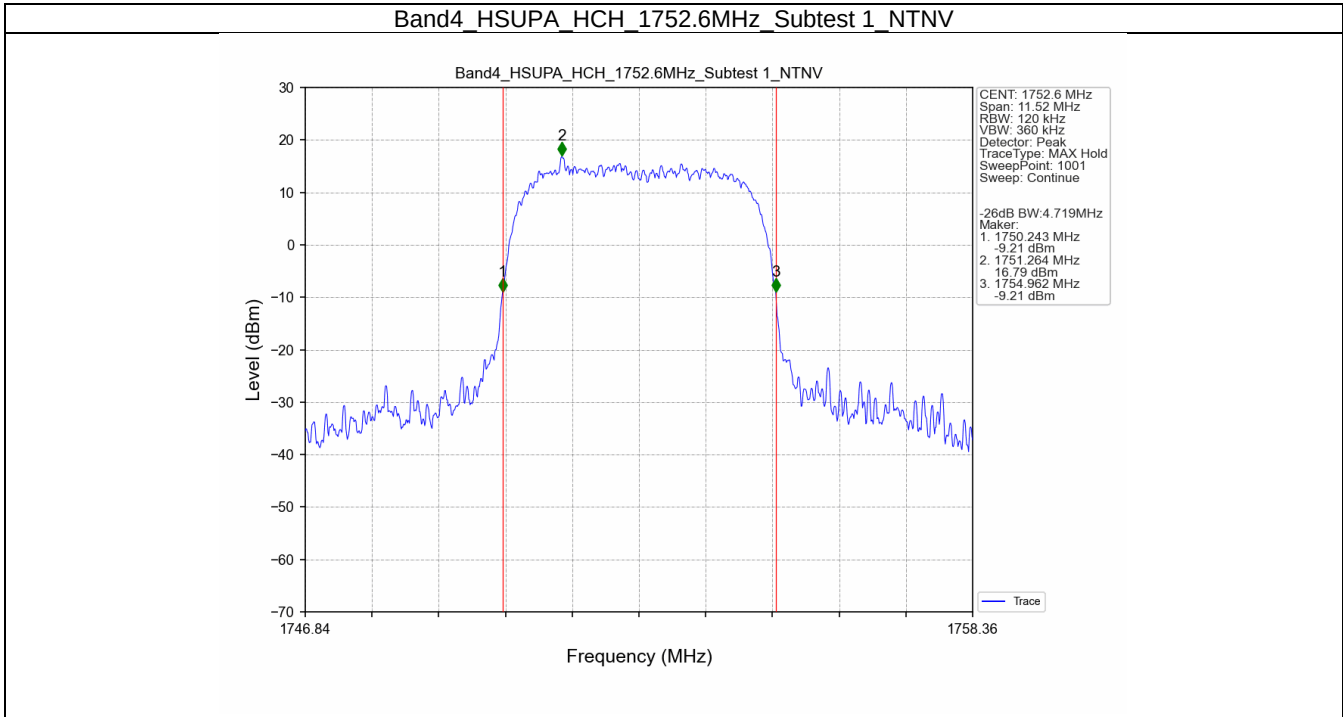
3.2.2 Band4_XDB











4. Peak-Average Ratio

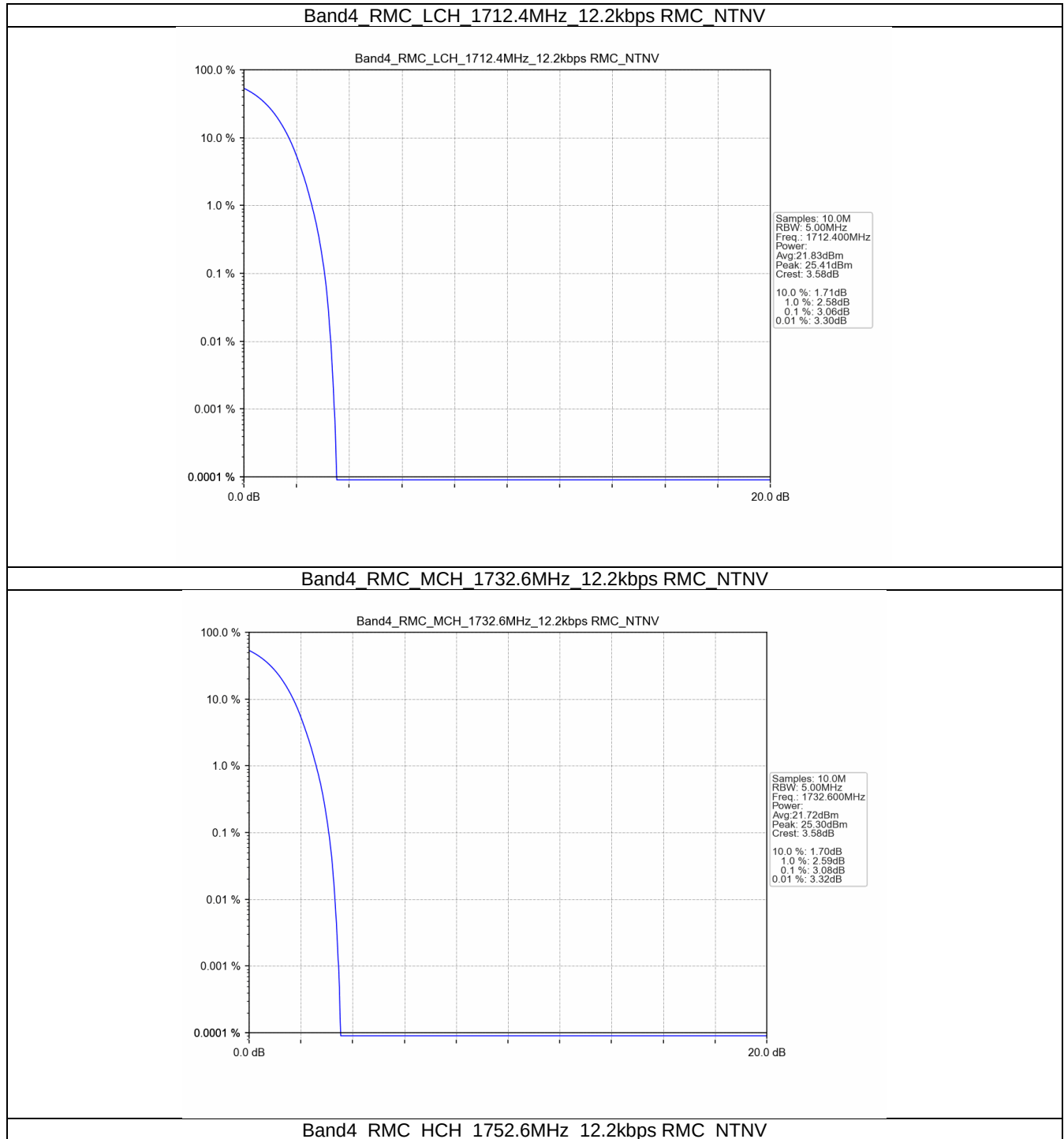
4.1 Test Result

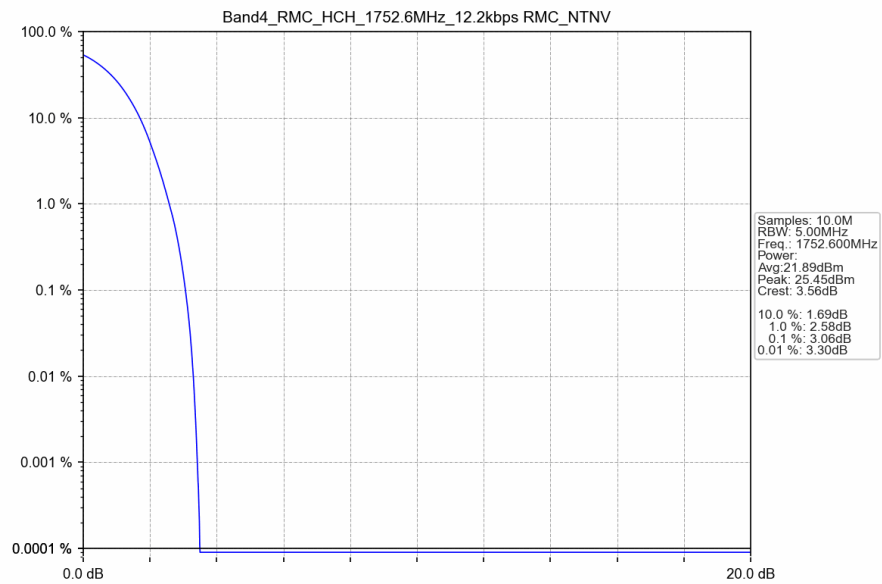
4.1.1 Band4

Band: 4						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	3.06	<=13	Pass
			1732.6	3.08	<=13	Pass
			1752.6	3.06	<=13	Pass
	HSDPA	Subtest 1	1712.4	6.00	<=13	Pass
			1732.6	6.08	<=13	Pass
			1752.6	5.97	<=13	Pass
	HSUPA	Subtest 1	1712.4	5.65	<=13	Pass
			1732.6	5.63	<=13	Pass
			1752.6	5.62	<=13	Pass

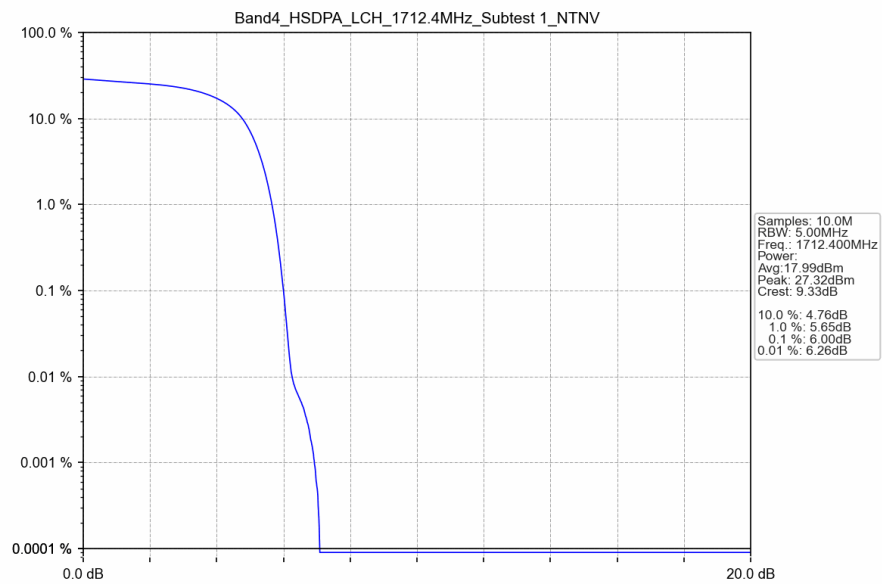
4.2 Test Graph

4.2.1 Band4

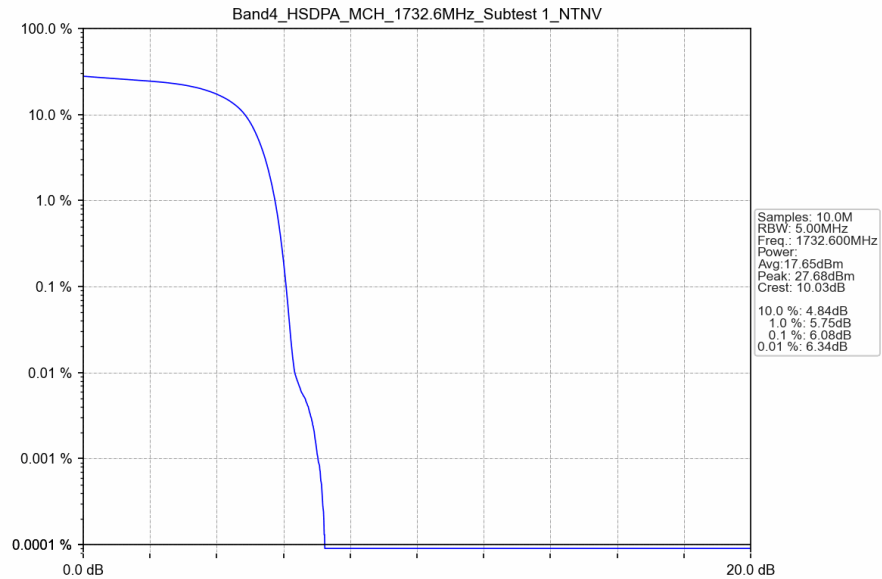




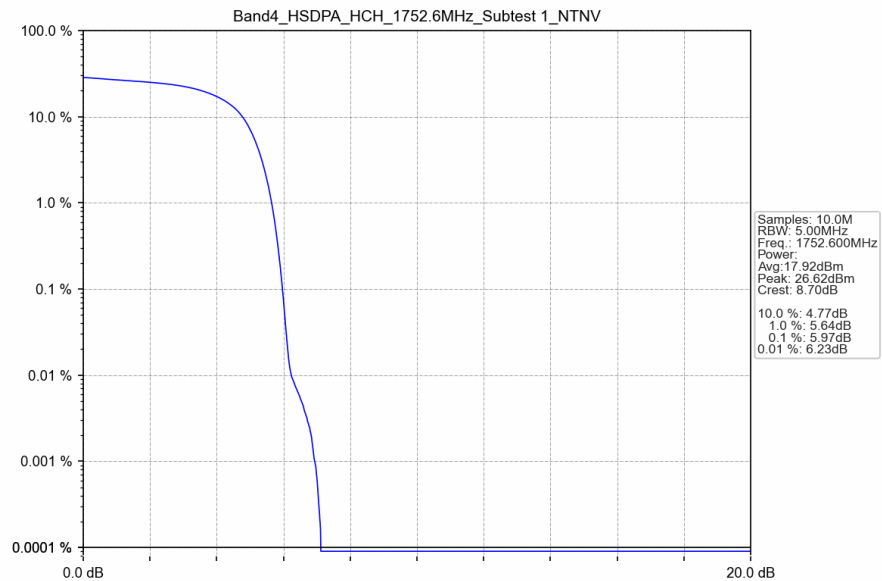
Band4 HSDPA LCH 1712.4MHz Subtest 1 NTN



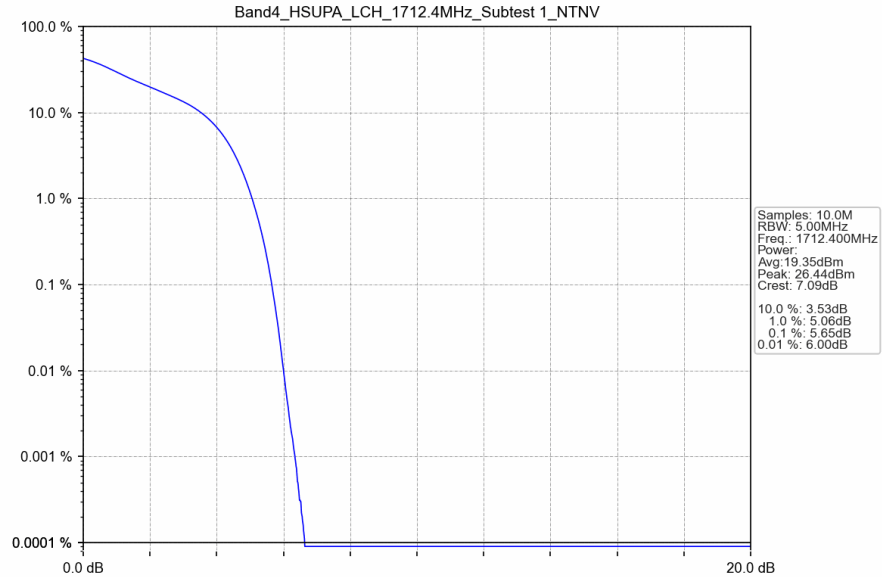
Band4_HSDPA_MCH_1732.6MHz_Subtest 1_NTNV



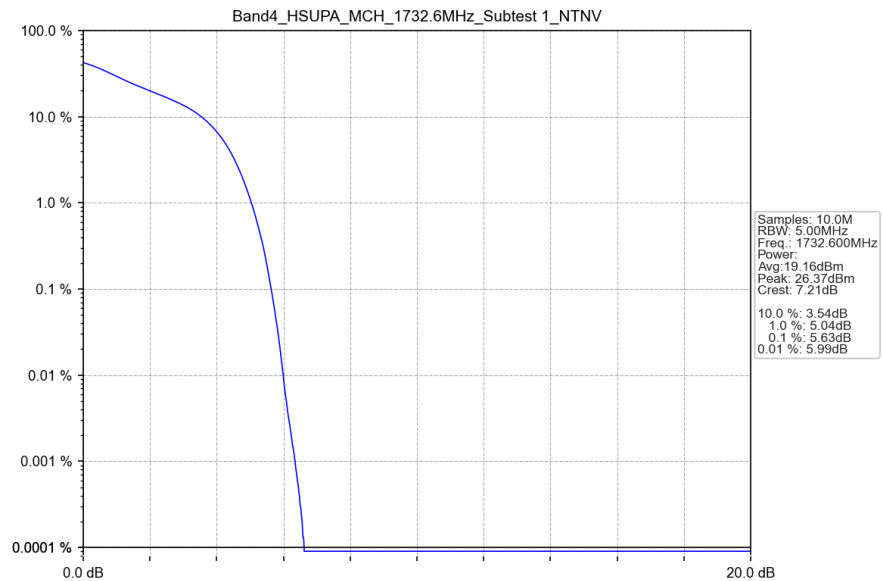
Band4_HSDPA_HCH_1752.6MHz_Subtest 1_NTNV

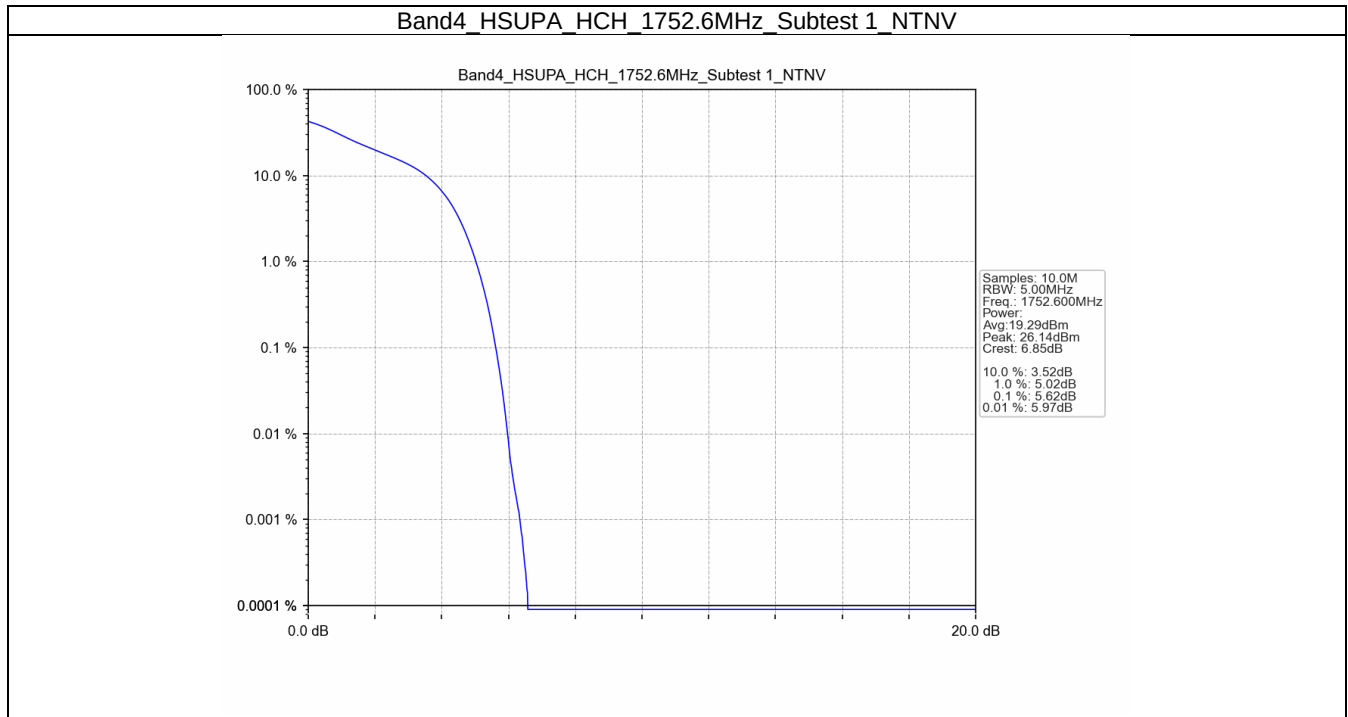


Band4_HSUPA_LCH_1712.4MHz_Subtest 1_NTNV



Band4_HSUPA_MCH_1732.6MHz_Subtest 1_NTNV





5. Spurious Emission

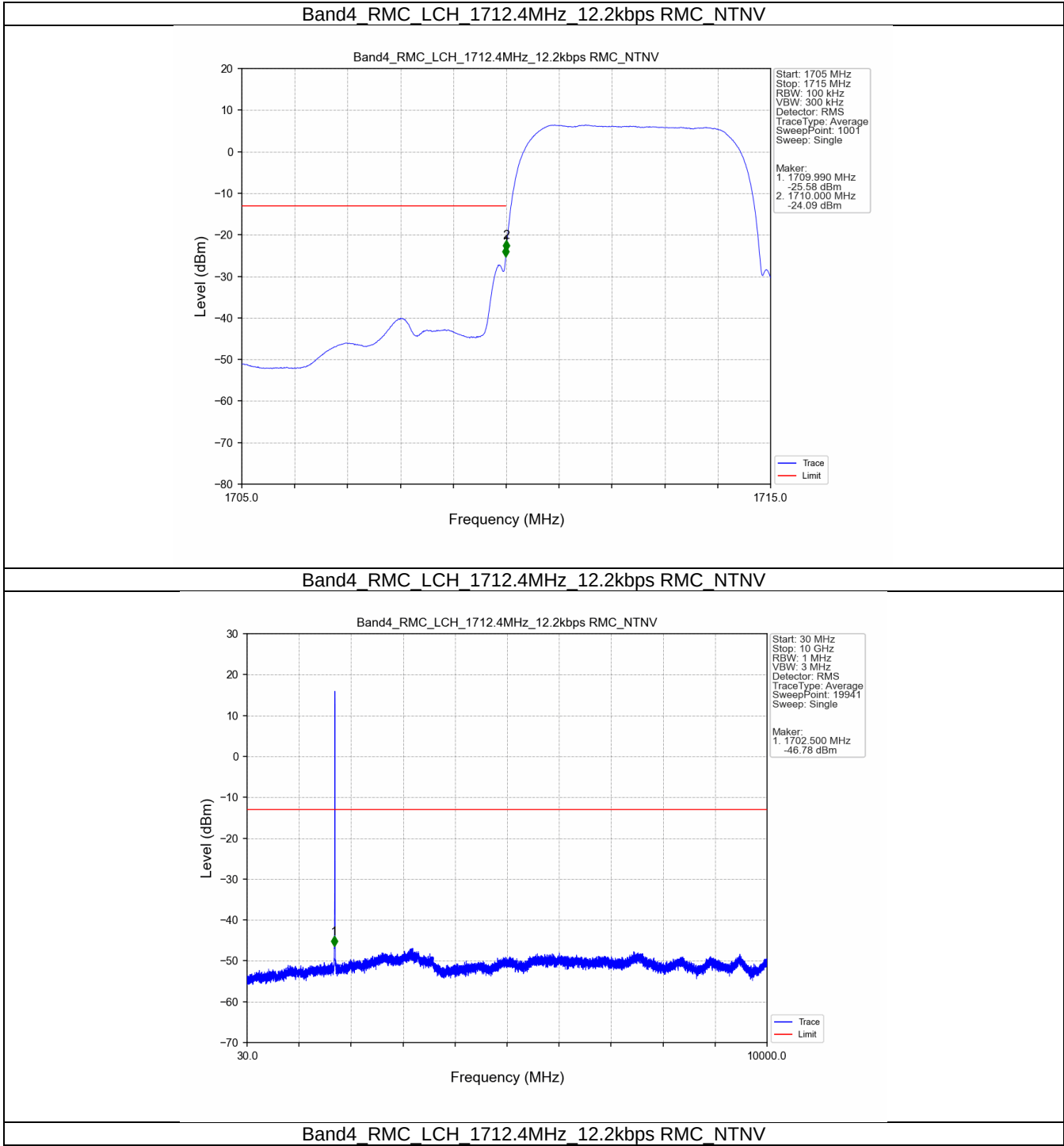
5.1 Test Result

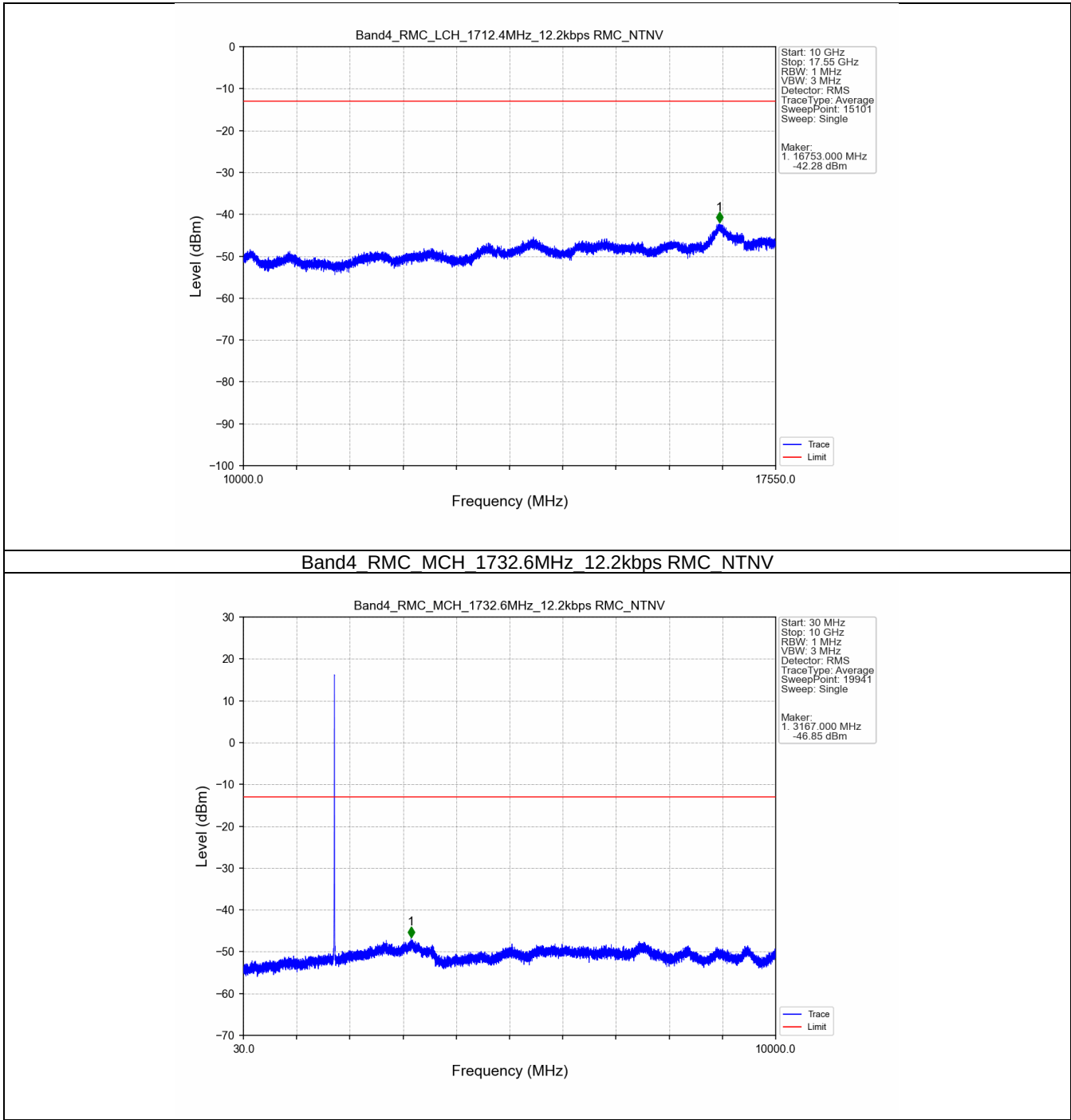
5.1.1 Band4

Band: 4						
ENV	Mode		Frequency (MHz)	Spurious Emission		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	Refer To Test Graph	Pass	
			1732.6	Refer To Test Graph	Pass	
			1752.6	Refer To Test Graph	Pass	
	HSDPA	Subtest 1	1712.4	Refer To Test Graph	Pass	
			1732.6	Refer To Test Graph	Pass	
			1752.6	Refer To Test Graph	Pass	
	HSUPA	Subtest 1	1712.4	Refer To Test Graph	Pass	
			1732.6	Refer To Test Graph	Pass	
			1752.6	Refer To Test Graph	Pass	

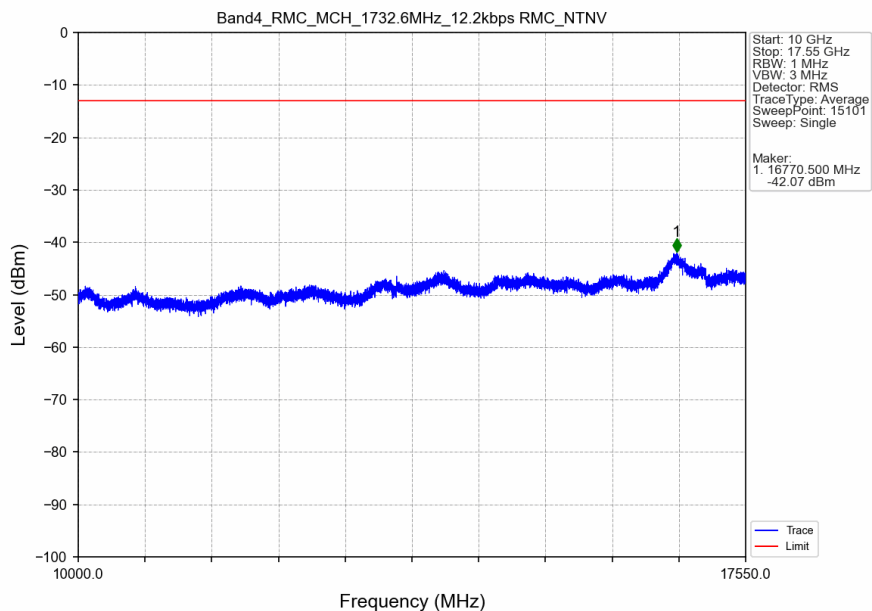
5.2 Test Graph

5.2.1 Band4

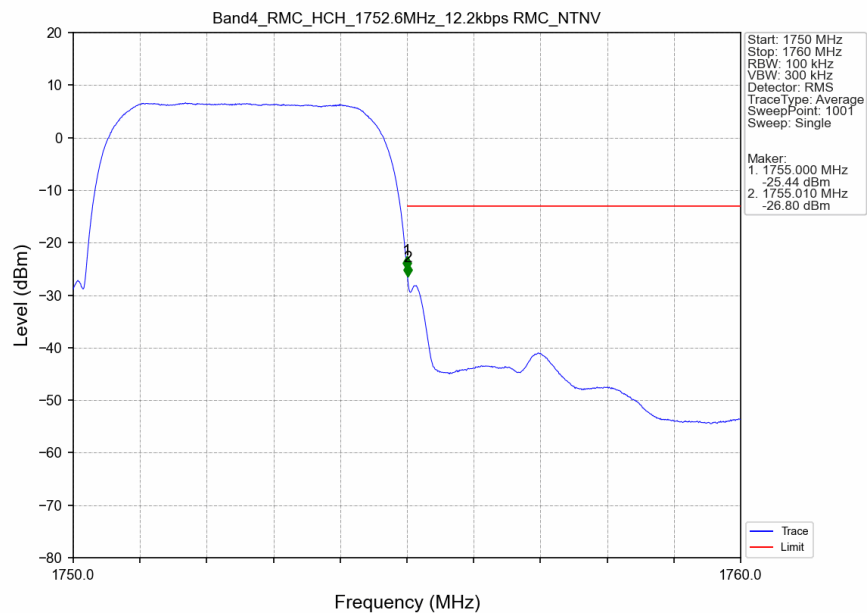




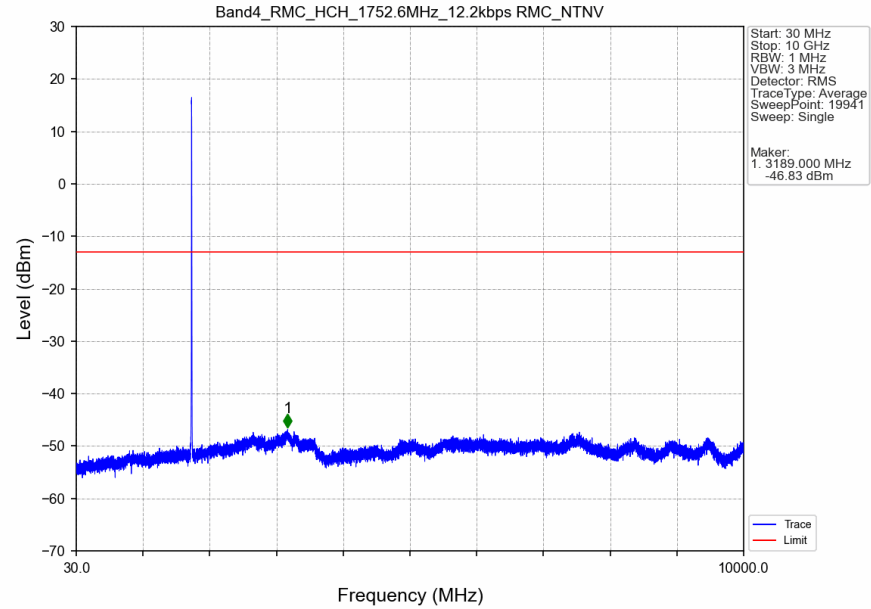
Band4_RMC_MCH_1732.6MHz_12.2kbps RMC_NTNV



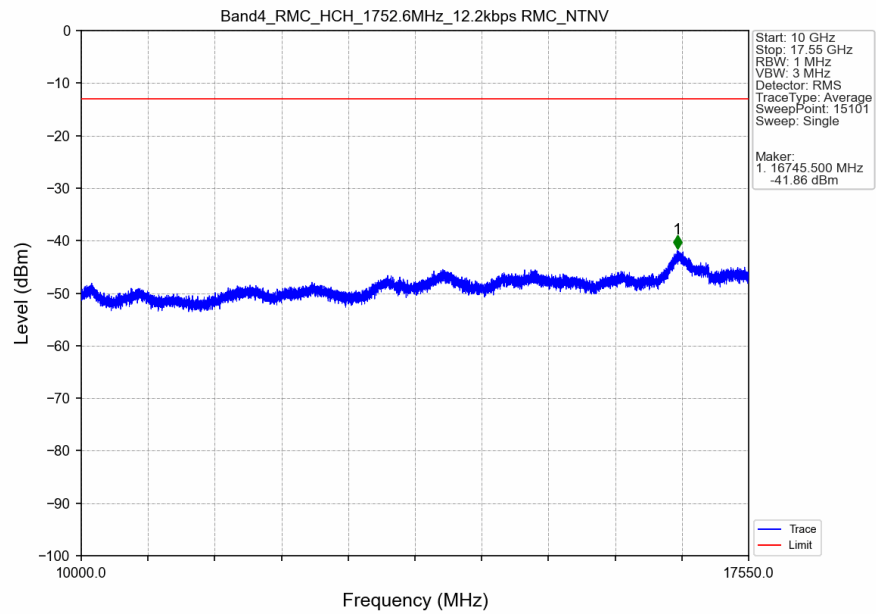
Band4_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



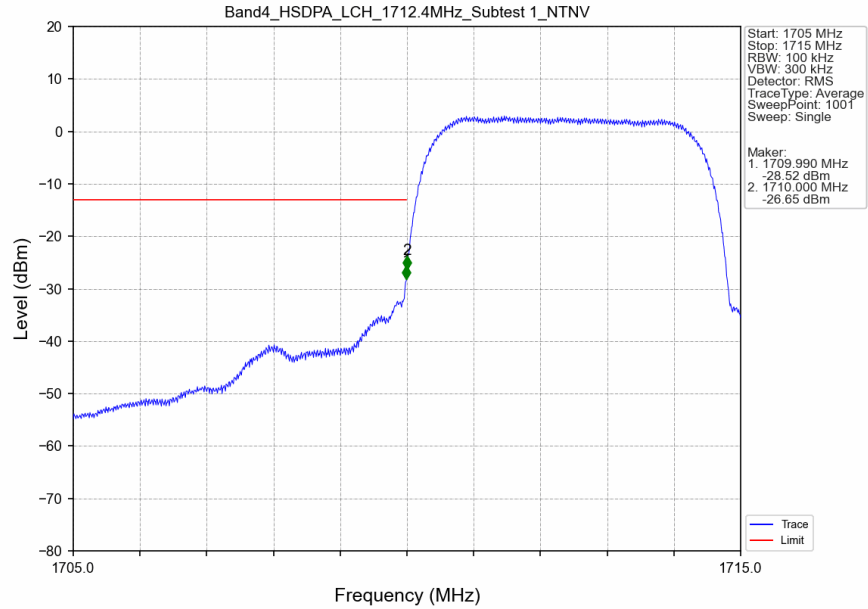
Band4_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



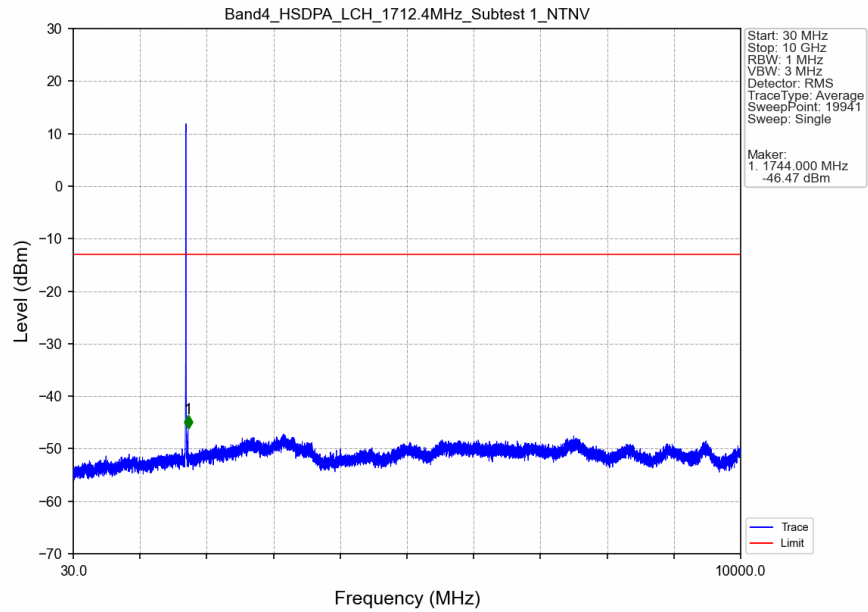
Band4_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



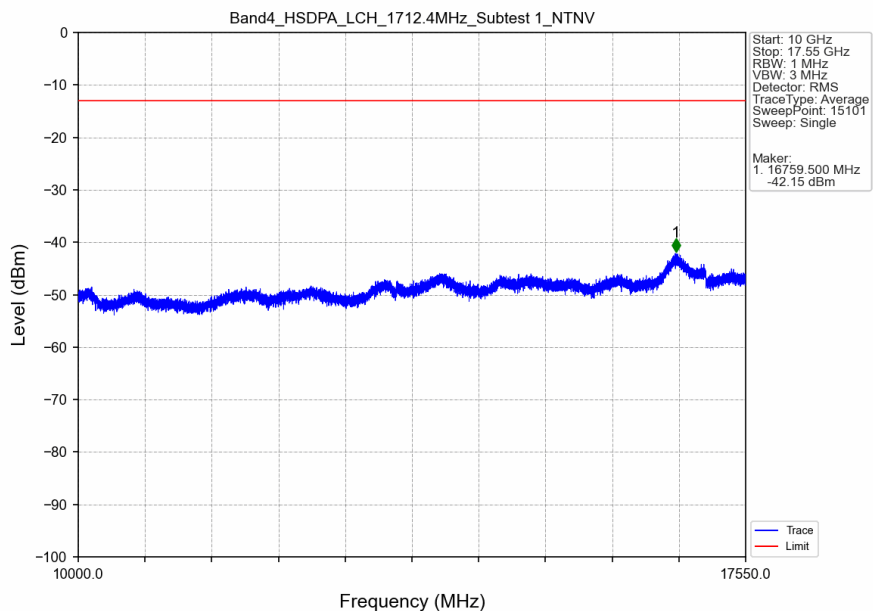
Band4_HSDPA_LCH_1712.4MHz_Subtest 1_NTNV



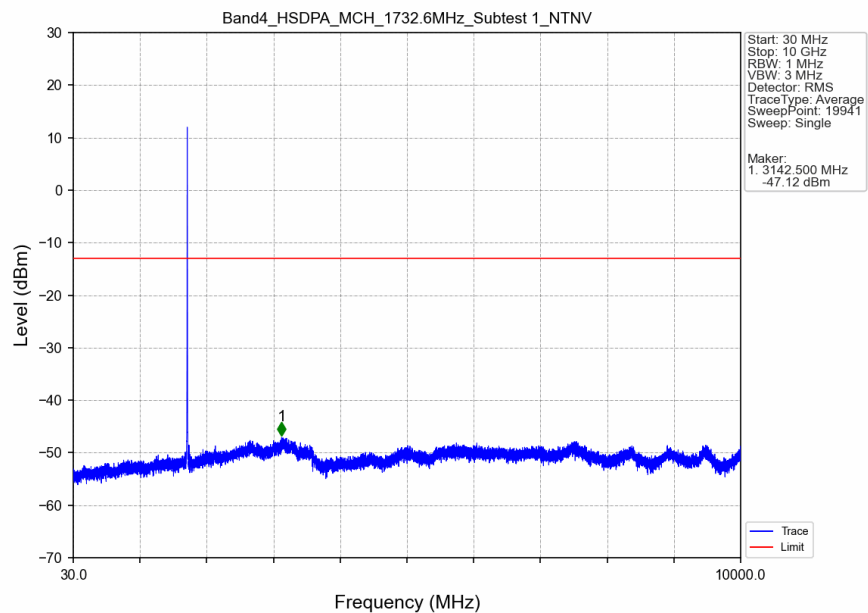
Band4_HSDPA_LCH_1712.4MHz_Subtest 1_NTNV



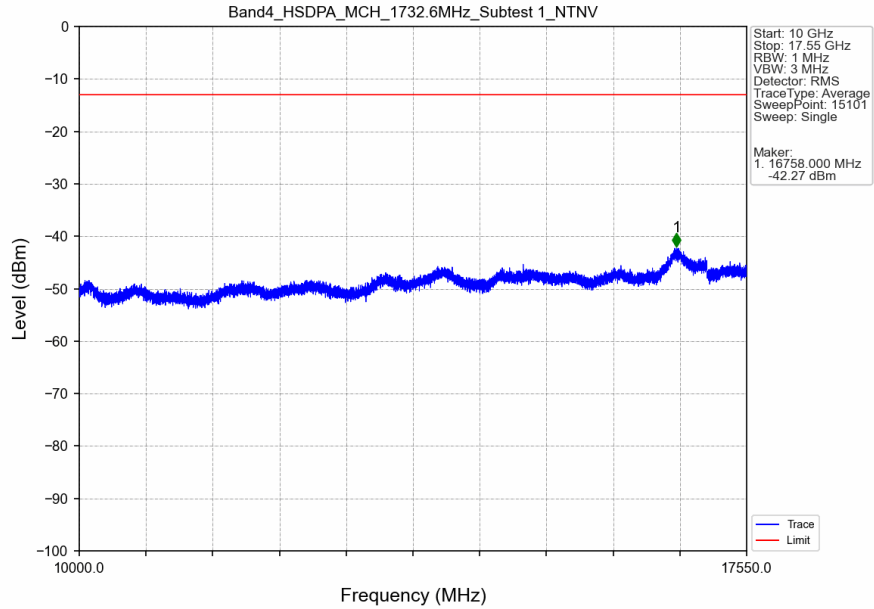
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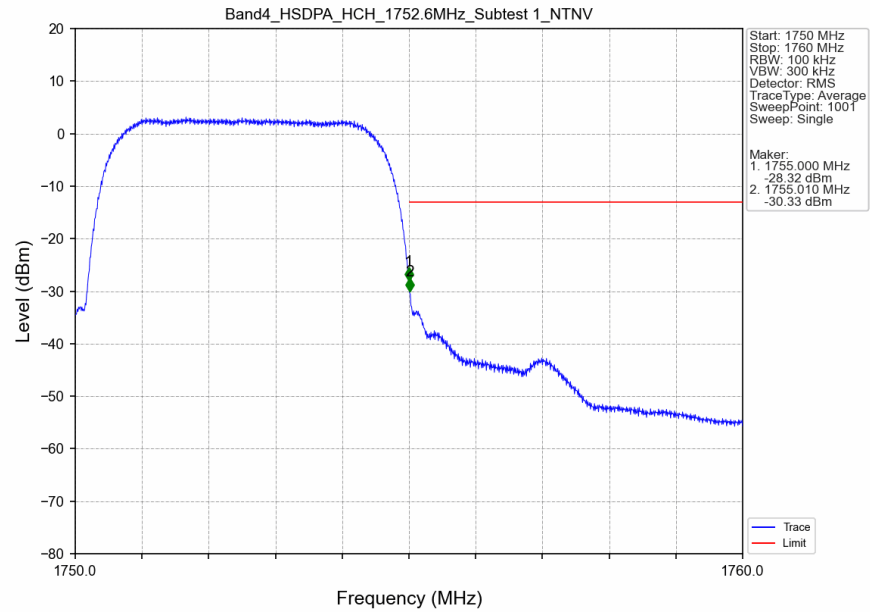
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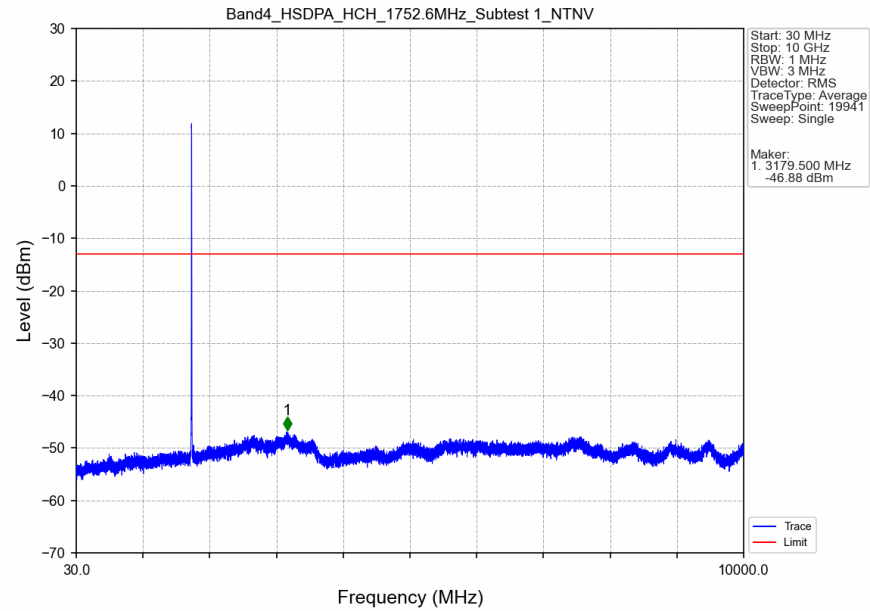
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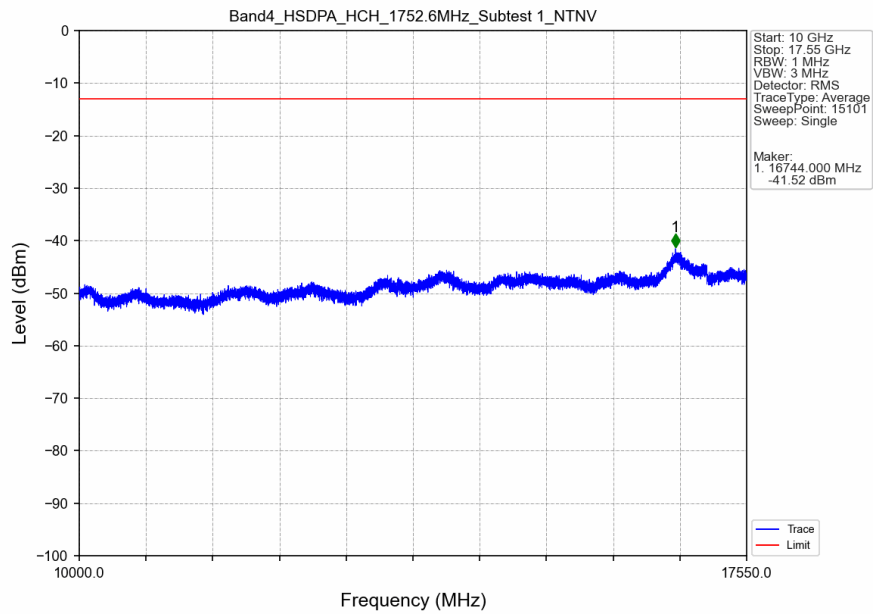
Band4_HSDPA_HCH_1752.6MHz_Subtest 1_NTNV



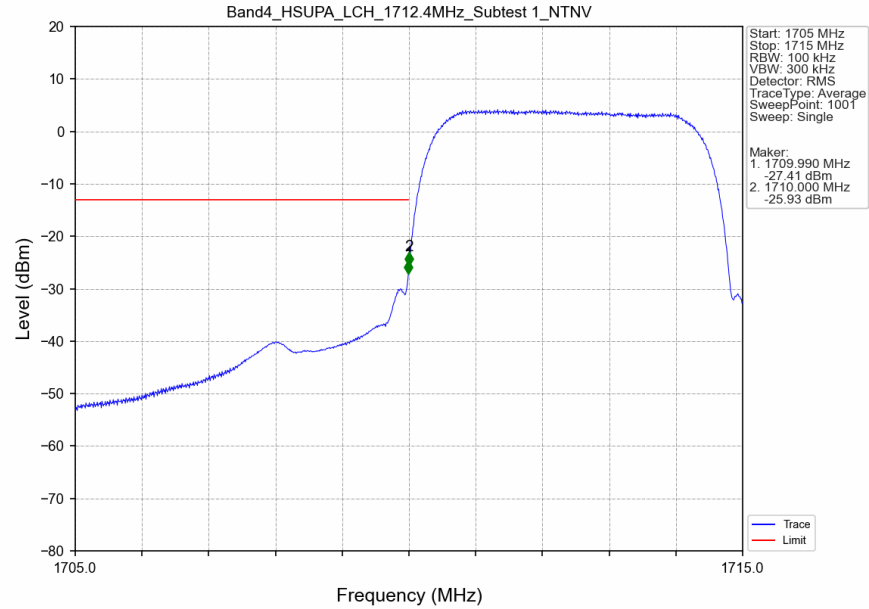
Band4_HSDPA_HCH_1752.6MHz_Subtest 1_NTNV



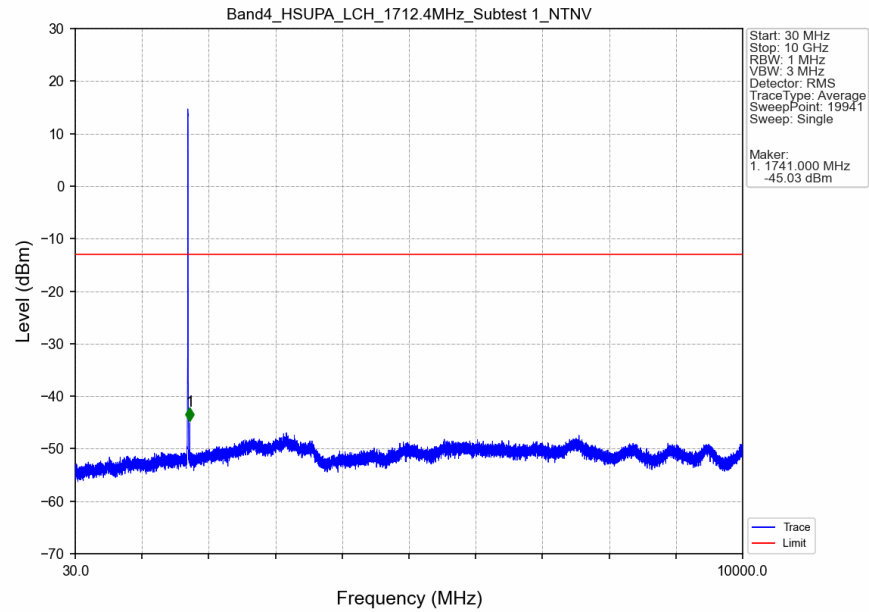
Band4_HSDPA_HCH_1752.6MHz_Subtest 1_NTNV



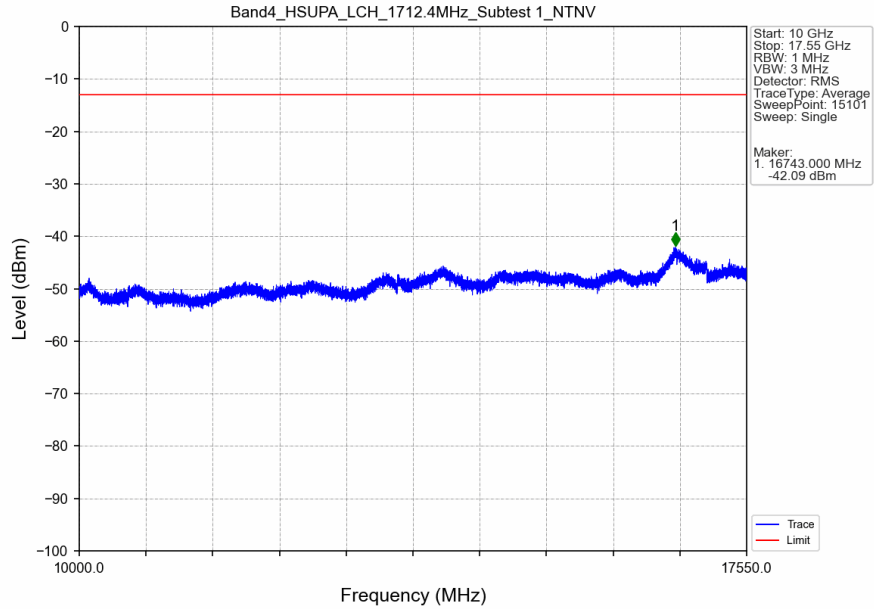
Band4_HSUPA_LCH_1712.4MHz_Subtest 1_NTNV



Band4_HSUPA_LCH_1712.4MHz_Subtest 1_NTNV



Band4_HSUPA_LCH_1712.4MHz_Subtest 1_NTNV



Band4_HSUPA_MCH_1732.6MHz_Subtest 1_NTNV

