1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 BandIV_EIRP

Band: IV								
ENV	Mode		Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
	Network	Subset				Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	23.87	-2.41	21.46	<=30	Pass
			1732.6	24.13	-2.41	21.72	<=30	Pass
			1752.6	23.99	-2.41	21.58	<=30	Pass
	HSDPA	Subtest 1	1712.4	21.96	-2.41	19.55	<=30	Pass
		Subtest 2	1712.4	21.99	-2.41	19.58	<=30	Pass
		Subtest 3	1712.4	21.97	-2.41	19.56	<=30	Pass
		Subtest 4	1712.4	21.97	-2.41	19.56	<=30	Pass
		Subtest 1	1732.6	22.09	-2.41	19.68	<=30	Pass
		Subtest 2	1732.6	22.10	-2.41	19.69	<=30	Pass
		Subtest 3	1732.6	22.07	-2.41	19.66	<=30	Pass
		Subtest 4	1732.6	22.10	-2.41	19.69	<=30	Pass
		Subtest 1	1752.6	21.91	-2.41	19.50	<=30	Pass
		Subtest 2	1752.6	21.90	-2.41	19.49	<=30	Pass
		Subtest 3	1752.6	21.88	-2.41	19.47	<=30	Pass
		Subtest 4	1752.6	21.94	-2.41	19.53	<=30	Pass
	HSUPA	Subtest 1	1712.4	19.62	-2.41	17.21	<=30	Pass
		Subtest 2	1712.4	19.78	-2.41	17.37	<=30	Pass
		Subtest 3	1712.4	19.76	-2.41	17.35	<=30	Pass
		Subtest 4	1712.4	19.91	-2.41	17.50	<=30	Pass
		Subtest 5	1712.4	19.67	-2.41	17.26	<=30	Pass
		Subtest 1	1732.6	20.01	-2.41	17.60	<=30	Pass
		Subtest 2	1732.6	19.89	-2.41	17.48	<=30	Pass
		Subtest 3	1732.6	19.86	-2.41	17.45	<=30	Pass
		Subtest 4	1732.6	19.88	-2.41	17.47	<=30	Pass
		Subtest 5	1732.6	19.73	-2.41	17.32	<=30	Pass
		Subtest 1	1752.6	19.55	-2.41	17.14	<=30	Pass
		Subtest 2	1752.6	19.74	-2.41	17.33	<=30	Pass
		Subtest 3	1752.6	19.74	-2.41	17.33	<=30	Pass
		Subtest 4	1752.6	19.72	-2.41	17.31	<=30	Pass
		Subtest 5	1752.6	19.36	-2.41	16.95	<=30	Pass
Note1: EIRP=Conducted Power+Antenna Gain								

2. Frequency Stability

2.1 Test Result

2.1.1 BandIV

Band: IV							
Network	Frequency (MHz)	Temp. (°C)	Voltage	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
RMC	1712.4	20	LV	-7.975	-0.0047	-2.5 to 2.5	Pass
			NV	-4.292	-0.0025	-2.5 to 2.5	Pass
			HV	-1.953	-0.0011	-2.5 to 2.5	Pass
		-30	NV	-3.648	-0.0021	-2.5 to 2.5	Pass
		-20	NV	-1.080	-0.0006	-2.5 to 2.5	Pass
		-10	NV	-3.905	-0.0023	-2.5 to 2.5	Pass
		0	NV	-2.267	-0.0013	-2.5 to 2.5	Pass
		10	NV	-1.352	-0.0008	-2.5 to 2.5	Pass
		30	NV	-3.312	-0.0019	-2.5 to 2.5	Pass
		40	NV	-3.140	-0.0018	-2.5 to 2.5	Pass
		50	NV	-1.588	-0.0009	-2.5 to 2.5	Pass
	1732.6	20	LV	-4.127	-0.0024	-2.5 to 2.5	Pass
			NV	-5.529	-0.0032	-2.5 to 2.5	Pass
			HV	-3.383	-0.0020	-2.5 to 2.5	Pass
		-30	NV	-7.024	-0.0041	-2.5 to 2.5	Pass
		-20	NV	-4.678	-0.0027	-2.5 to 2.5	Pass
		-10	NV	-3.226	-0.0019	-2.5 to 2.5	Pass
		0	NV	-5.686	-0.0033	-2.5 to 2.5	Pass
		10	NV	-4.921	-0.0028	-2.5 to 2.5	Pass
		30	NV	-4.299	-0.0025	-2.5 to 2.5	Pass
		40	NV	-3.276	-0.0019	-2.5 to 2.5	Pass
		50	NV	-2.353	-0.0014	-2.5 to 2.5	Pass
	1752.6	20	LV	-6.537	-0.0037	-2.5 to 2.5	Pass
			NV	-5.078	-0.0029	-2.5 to 2.5	Pass
			HV	-4.241	-0.0024	-2.5 to 2.5	Pass
		-30	NV	-3.884	-0.0022	-2.5 to 2.5	Pass
		-20	NV	-3.104	-0.0018	-2.5 to 2.5	Pass
		-10	NV	-2.453	-0.0014	-2.5 to 2.5	Pass
		0	NV	-2.246	-0.0013	-2.5 to 2.5	Pass
		10	NV	-3.097	-0.0018	-2.5 to 2.5	Pass
		30	NV	-5.901	-0.0034	-2.5 to 2.5	Pass
		40	NV	-6.416	-0.0037	-2.5 to 2.5	Pass
		50	NV	-5.579	-0.0032	-2.5 to 2.5	Pass
HSDPA	1712.4	20	LV	6.001	0.0035	-2.5 to 2.5	Pass
			NV	2.439	0.0014	-2.5 to 2.5	Pass
			HV	1.373	0.0008	-2.5 to 2.5	Pass
		-30	NV	2.754	0.0016	-2.5 to 2.5	Pass
		-20	NV	-0.279	-0.0002	-2.5 to 2.5	Pass
		-10	NV	-2.639	-0.0015	-2.5 to 2.5	Pass
		0	NV	2.396	0.0014	-2.5 to 2.5	Pass
		10	NV	1.867	0.0011	-2.5 to 2.5	Pass
		30	NV	0.908	0.0005	-2.5 to 2.5	Pass
		40	NV	-0.265	-0.0002	-2.5 to 2.5	Pass
		50	NV	-1.016	-0.0006	-2.5 to 2.5	Pass
	1732.6	20	LV	-2.067	-0.0012	-2.5 to 2.5	Pass
			NV	-3.376	-0.0019	-2.5 to 2.5	Pass
			HV	-3.669	-0.0021	-2.5 to 2.5	Pass

		-30	NV	-3.211	-0.0019	-2.5 to 2.5	Pass
		-20	NV	-1.717	-0.0010	-2.5 to 2.5	Pass
		-10	NV	-0.072	0.0000	-2.5 to 2.5	Pass
		0	NV	-0.179	-0.0001	-2.5 to 2.5	Pass
		10	NV	-0.150	-0.0001	-2.5 to 2.5	Pass
		30	NV	-1.266	-0.0007	-2.5 to 2.5	Pass
		40	NV	-1.631	-0.0009	-2.5 to 2.5	Pass
		50	NV	-0.522	-0.0003	-2.5 to 2.5	Pass
		20	LV	-1.395	-0.0008	-2.5 to 2.5	Pass
			NV	-2.396	-0.0014	-2.5 to 2.5	Pass
			HV	-3.512	-0.0020	-2.5 to 2.5	Pass
	1752.6	-30	NV	-3.469	-0.0020	-2.5 to 2.5	Pass
		-20	NV	-0.980	-0.0006	-2.5 to 2.5	Pass
		-10	NV	-0.443	-0.0003	-2.5 to 2.5	Pass
		0	NV	-1.059	-0.0006	-2.5 to 2.5	Pass
		10	NV	-1.509	-0.0009	-2.5 to 2.5	Pass
		30	NV	-1.953	-0.0011	-2.5 to 2.5	Pass
		40	NV	-3.791	-0.0022	-2.5 to 2.5	Pass
		50	NV	-4.220	-0.0024	-2.5 to 2.5	Pass
HSUPA	1712.4	20	LV	-1.502	-0.0009	-2.5 to 2.5	Pass
			NV	-1.216	-0.0007	-2.5 to 2.5	Pass
			HV	-2.410	-0.0014	-2.5 to 2.5	Pass
		-30	NV	-3.226	-0.0019	-2.5 to 2.5	Pass
		-20	NV	-1.810	-0.0011	-2.5 to 2.5	Pass
		-10	NV	-2.260	-0.0013	-2.5 to 2.5	Pass
		0	NV	-1.602	-0.0009	-2.5 to 2.5	Pass
		10	NV	0.408	0.0002	-2.5 to 2.5	Pass
		30	NV	-0.186	-0.0001	-2.5 to 2.5	Pass
		40	NV	0.322	0.0002	-2.5 to 2.5	Pass
		50	NV	-0.172	-0.0001	-2.5 to 2.5	Pass
	1732.6	20	LV	-1.802	-0.0010	-2.5 to 2.5	Pass
			NV	-3.855	-0.0022	-2.5 to 2.5	Pass
			HV	-6.394	-0.0037	-2.5 to 2.5	Pass
		-30	NV	-3.040	-0.0018	-2.5 to 2.5	Pass
		-20	NV	-2.575	-0.0015	-2.5 to 2.5	Pass
		-10	NV	-3.927	-0.0023	-2.5 to 2.5	Pass
		0	NV	-2.789	-0.0016	-2.5 to 2.5	Pass
		10	NV	-3.312	-0.0019	-2.5 to 2.5	Pass
		30	NV	-2.961	-0.0017	-2.5 to 2.5	Pass
		40	NV	-3.769	-0.0022	-2.5 to 2.5	Pass
		50	NV	-3.147	-0.0018	-2.5 to 2.5	Pass
	1752.6	20	LV	-5.536	-0.0032	-2.5 to 2.5	Pass
			NV	-6.638	-0.0038	-2.5 to 2.5	Pass
			HV	-5.486	-0.0031	-2.5 to 2.5	Pass
		-30	NV	-4.385	-0.0025	-2.5 to 2.5	Pass
		-20	NV	-5.372	-0.0031	-2.5 to 2.5	Pass
		-10	NV	-8.318	-0.0047	-2.5 to 2.5	Pass
		0	NV	-5.486	-0.0031	-2.5 to 2.5	Pass
		10	NV	-6.223	-0.0036	-2.5 to 2.5	Pass
		30	NV	-5.522	-0.0032	-2.5 to 2.5	Pass
		40	NV	-5.300	-0.0030	-2.5 to 2.5	Pass
		50	NV	-4.406	-0.0025	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 BandIV_OBW

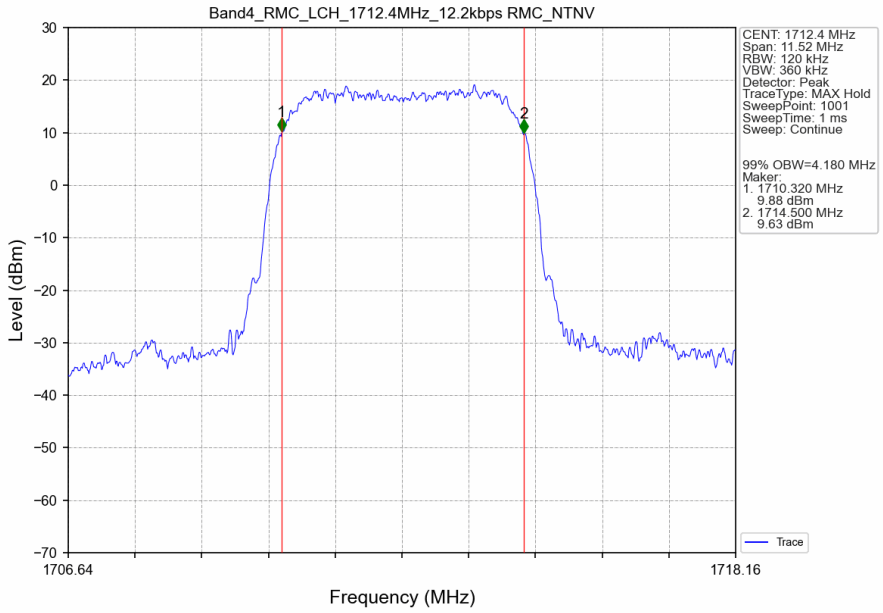
Band: IV						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	4.180	/	Pass
			1732.6	4.166	/	Pass
			1752.6	4.183	/	Pass
	HSDPA	Subtest 1	1712.4	4.167	/	Pass
			1732.6	4.191	/	Pass
			1752.6	4.174	/	Pass
	HSUPA	Subtest 1	1712.4	4.188	/	Pass
			1732.6	4.191	/	Pass
			1752.6	4.206	/	Pass

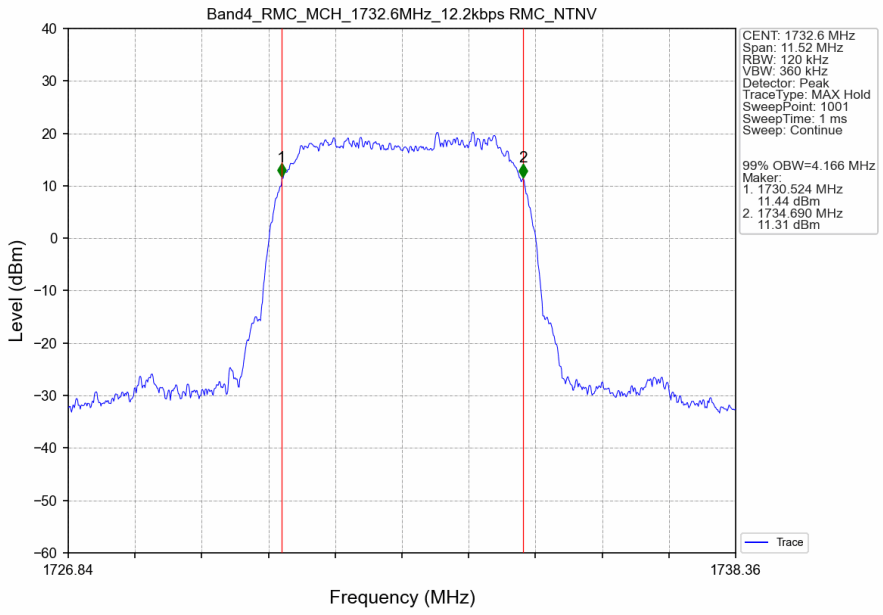
3.1.2 BandIV_XDB

Band: IV						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	4.748	/	Pass
			1732.6	4.720	/	Pass
			1752.6	4.756	/	Pass
	HSDPA	Subtest 1	1712.4	4.724	/	Pass
			1732.6	4.728	/	Pass
			1752.6	4.736	/	Pass
	HSUPA	Subtest 1	1712.4	4.735	/	Pass
			1732.6	4.733	/	Pass
			1752.6	4.735	/	Pass

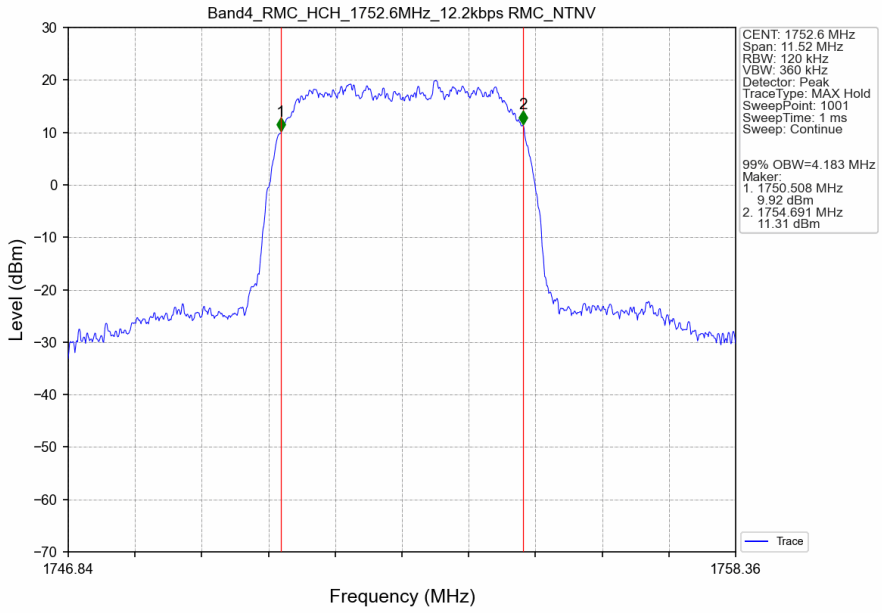
3.2 Test Graph

3.2.1 BandIV_OBW

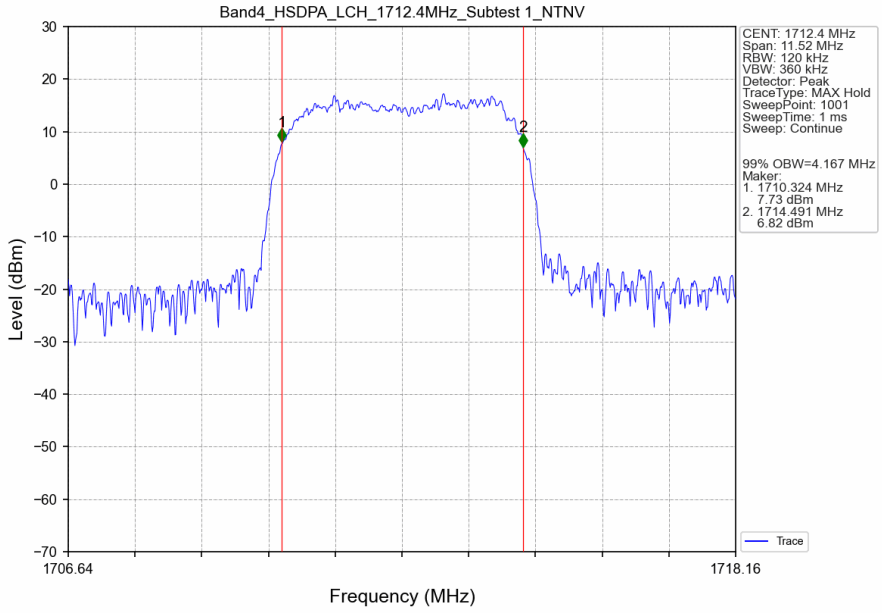
BandIV_RMC_LCH_1712.4MHz_12.2kbps RMC_NTNV


BandIV_RMC_MCH_1732.6MHz_12.2kbps RMC_NTNV


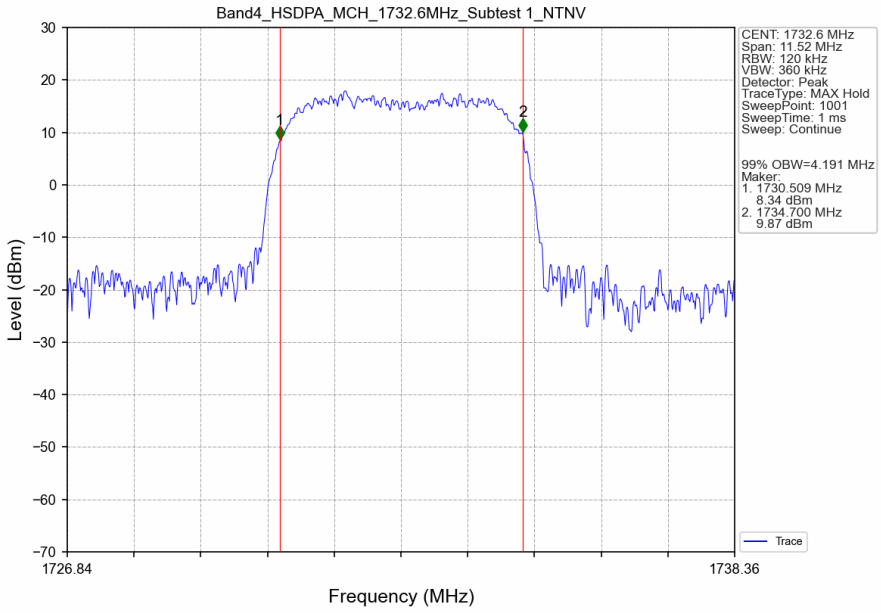
BandIV_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



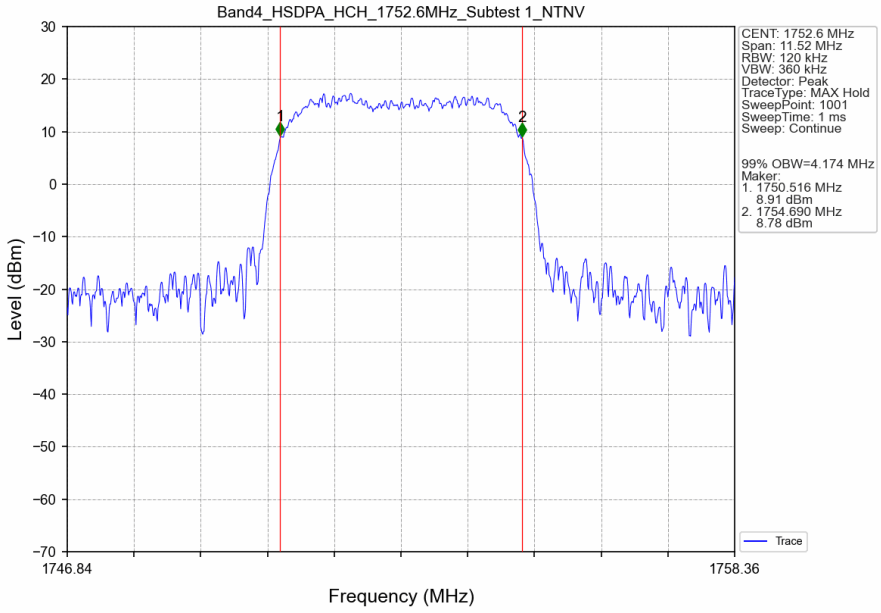
BandIV_HSDPA_LCH_1712.4MHz_Subtest 1_NTNV



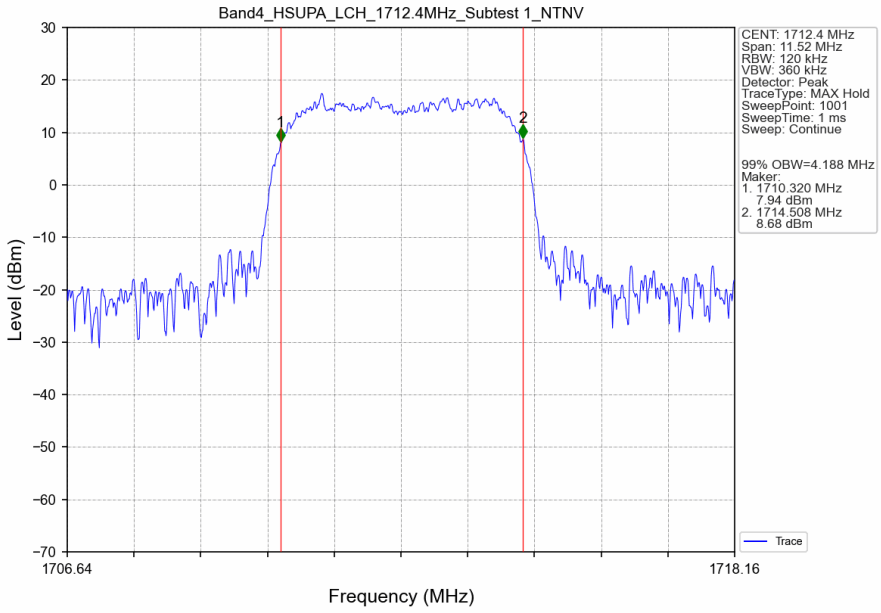
BandIV_HSDPA_MCH_1732.6MHz_Subtest 1_NTNV



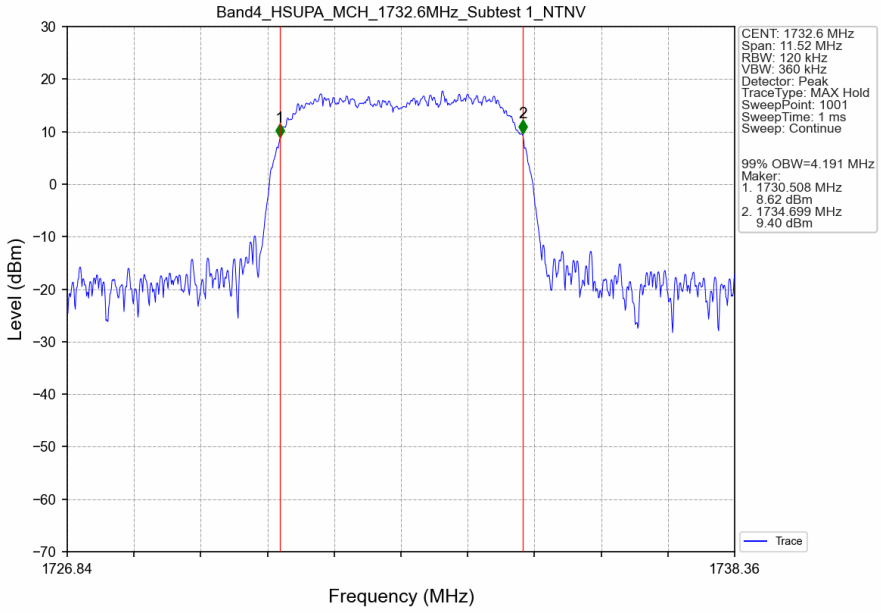
BandIV_HSDPA_HCH_1752.6MHz_Subtest 1_NTNV



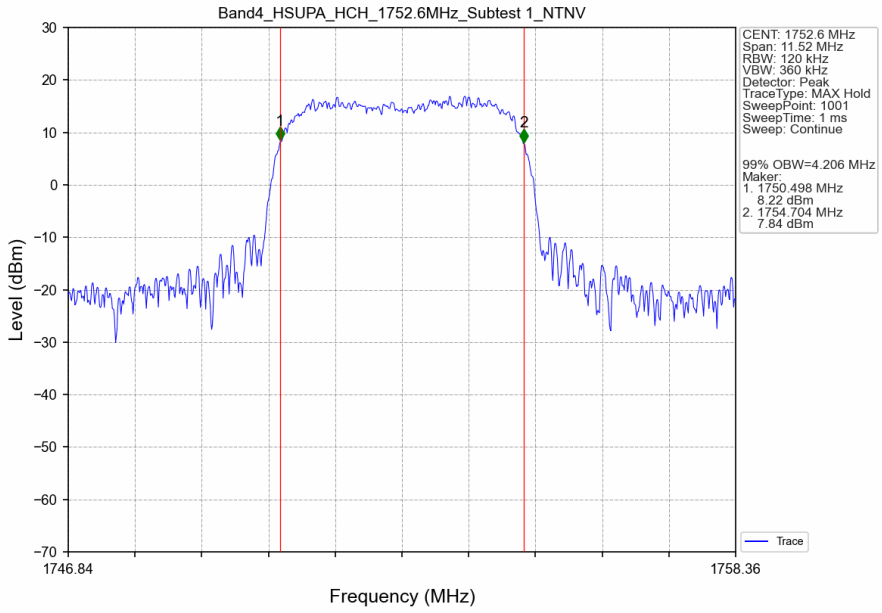
BandIV_HSUPA_LCH_1712.4MHz_Subtest 1_NTNV



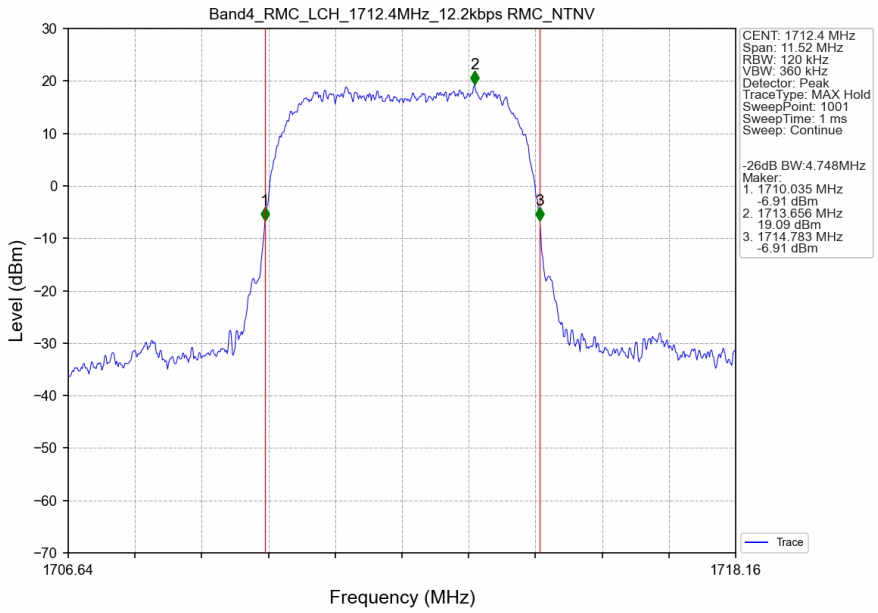
BandIV_HSUPA_MCH_1732.6MHz_Subtest 1_NTNV

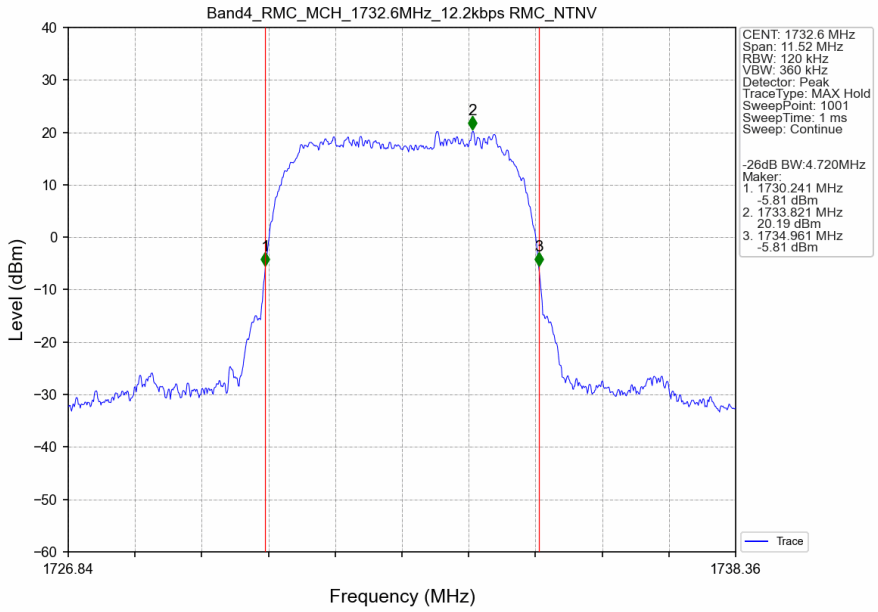


BandIV_HSUPA_HCH_1752.6MHz_Subtest 1_NTNV

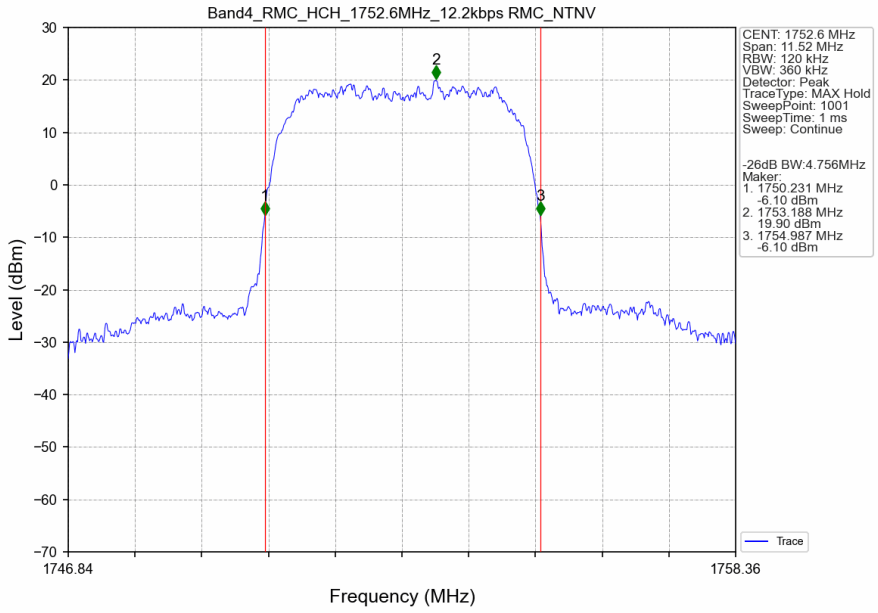


3.2.2 BandIV_XDB

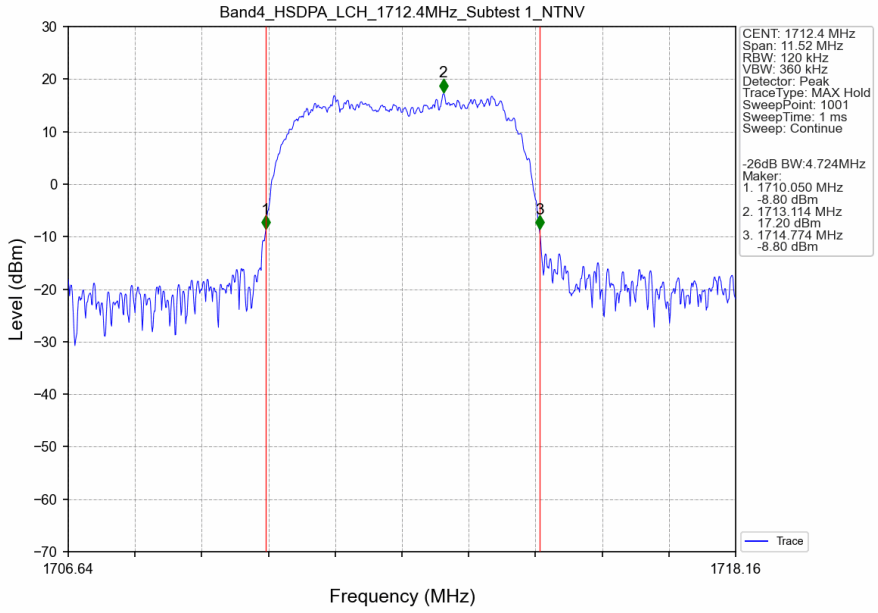
BandIV_RMC_LCH_1712.4MHz_12.2kbps RMC_NTNV


BandIV_RMC_MCH_1732.6MHz_12.2kbps RMC_NTNV


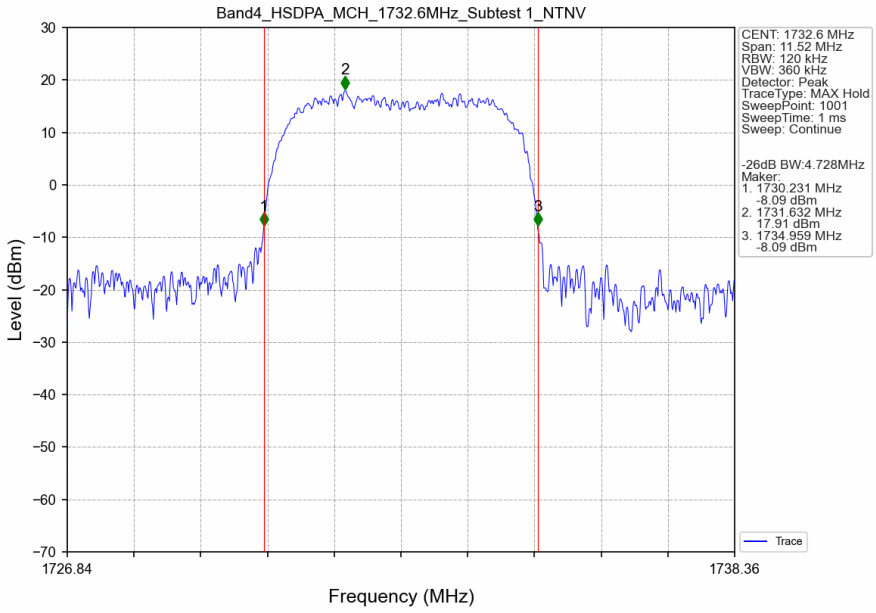
BandIV_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



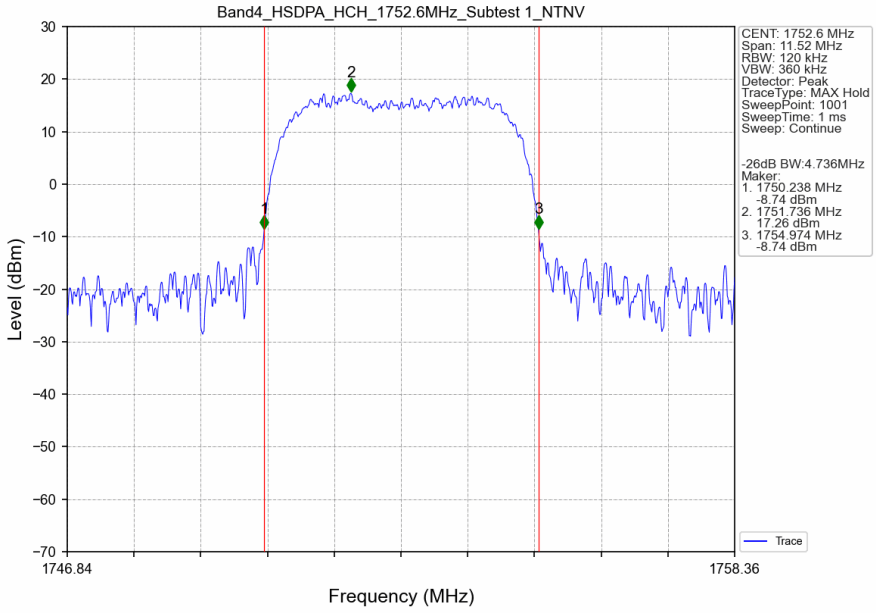
BandIV_HSDPA_LCH_1712.4MHz_Subtest 1_NTNV



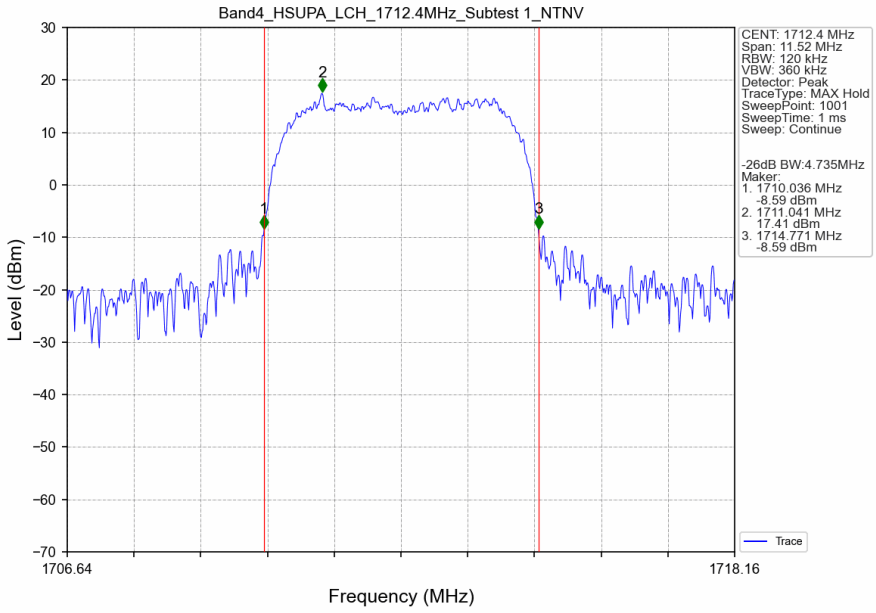
BandIV_HSDPA_MCH_1732.6MHz_Subtest 1_NTNV



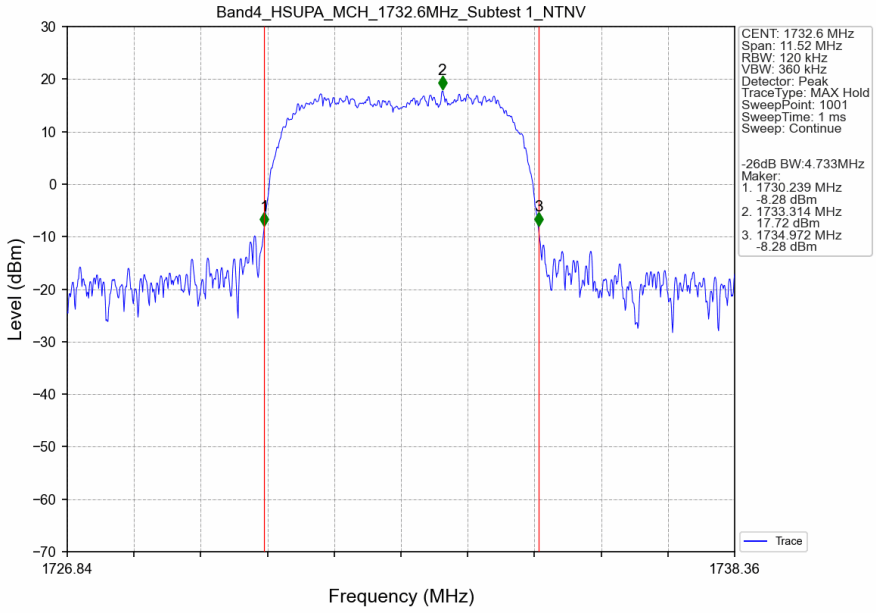
BandIV_HSDPA_HCH_1752.6MHz_Subtest 1_NTNV



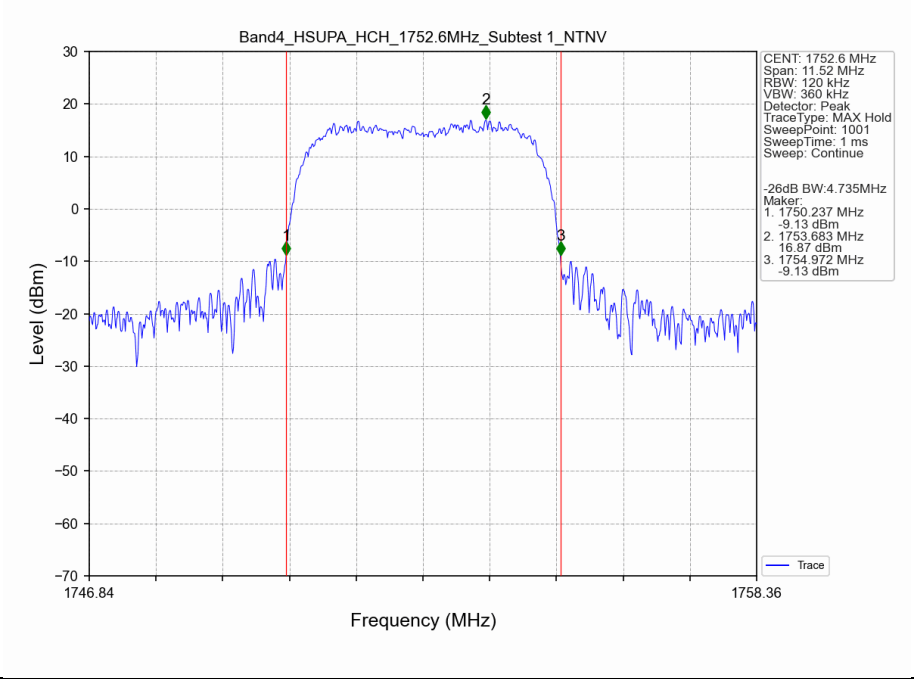
BandIV_HSUPA_LCH_1712.4MHz_Subtest 1_NTNV



BandIV_HSUPA_MCH_1732.6MHz_Subtest 1_NTNV



BandIV_HSUPA_HCH_1752.6MHz_Subtest 1_NTNV



4. Peak-Average Ratio

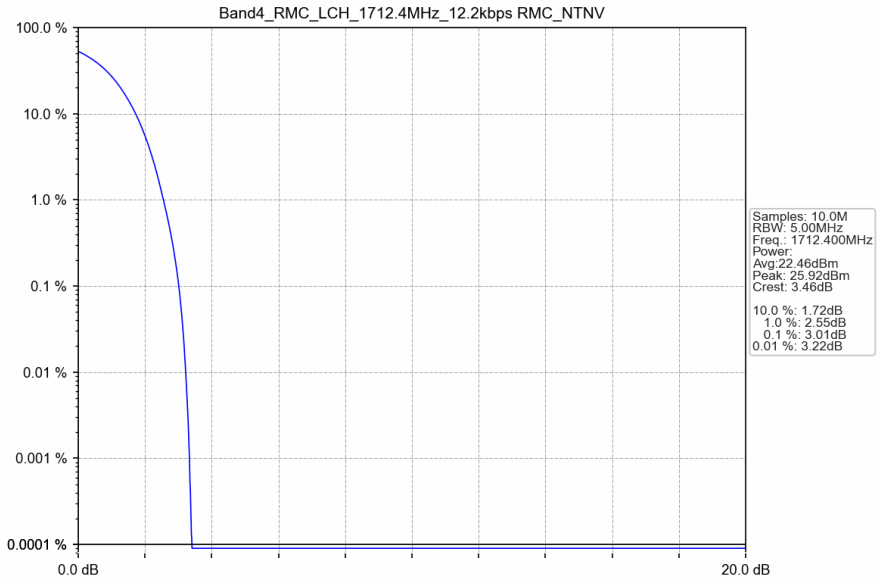
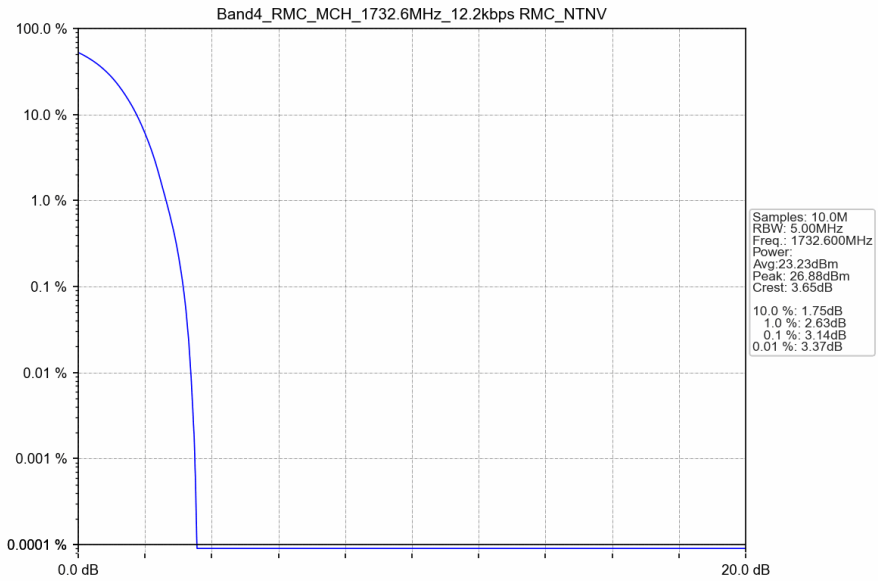
4.1 Test Result

4.1.1 BandIV

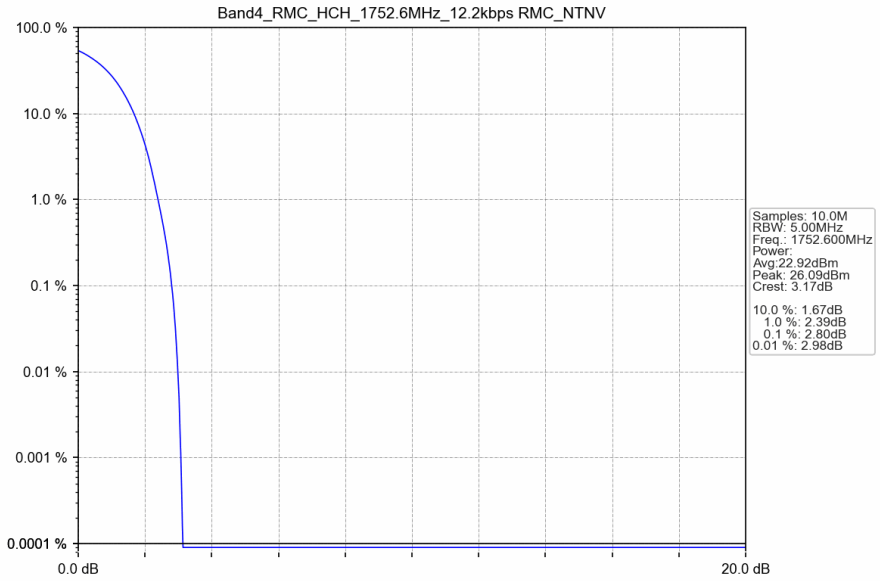
Band: IV						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	3.01	<=13	Pass
			1732.6	3.14	<=13	Pass
			1752.6	2.80	<=13	Pass
	HSDPA	Subtest 1	1712.4	5.81	<=13	Pass
			1732.6	5.84	<=13	Pass
			1752.6	5.72	<=13	Pass
	HSUPA	Subtest 1	1712.4	6.75	<=13	Pass
			1732.6	6.80	<=13	Pass
			1752.6	6.56	<=13	Pass

4.2 Test Graph

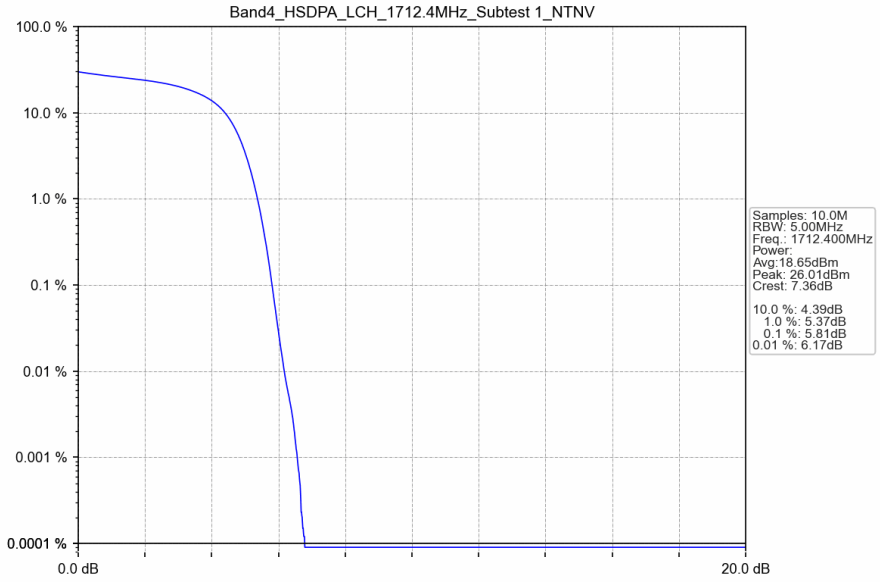
4.2.1 BandIV

BandIV_RMC_LCH_1712.4MHz_12.2kbps RMC_NTNV

BandIV_RMC_MCH_1732.6MHz_12.2kbps RMC_NTNV


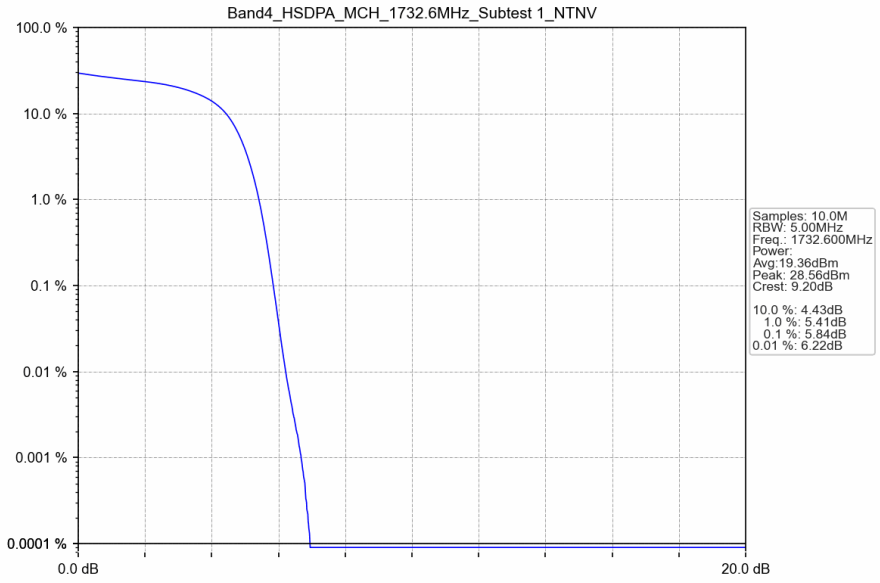
BandIV_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



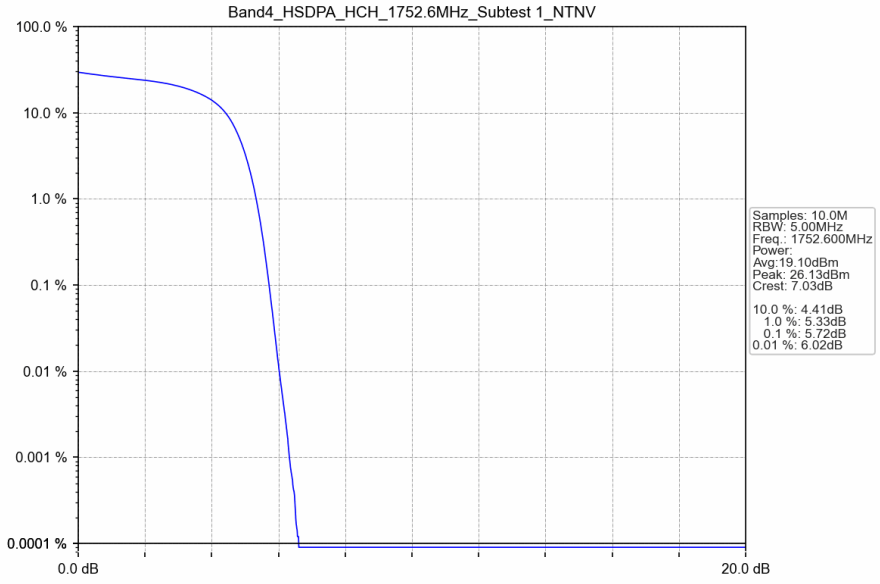
BandIV_HSDPA_LCH_1712.4MHz_Subtest 1_NTNV



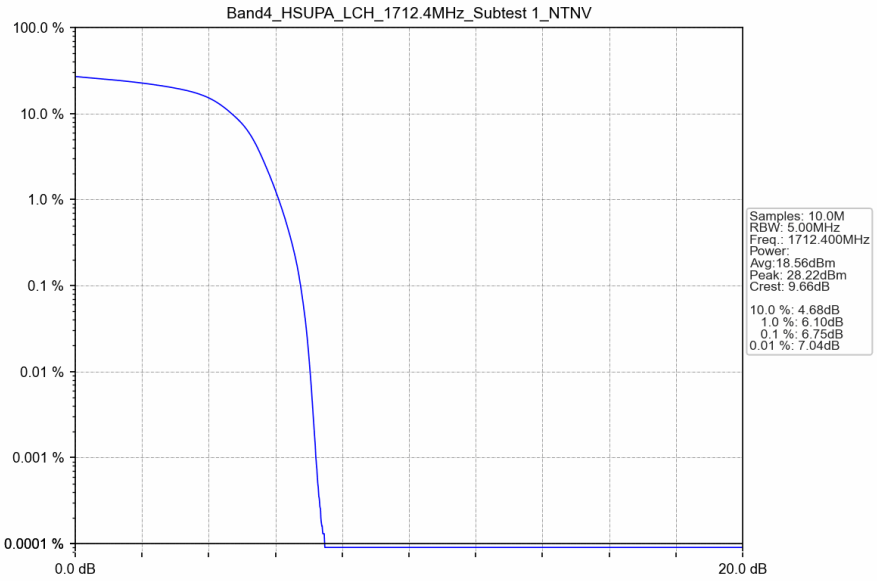
BandIV_HSDPA_MCH_1732.6MHz_Subtest 1_NTNV



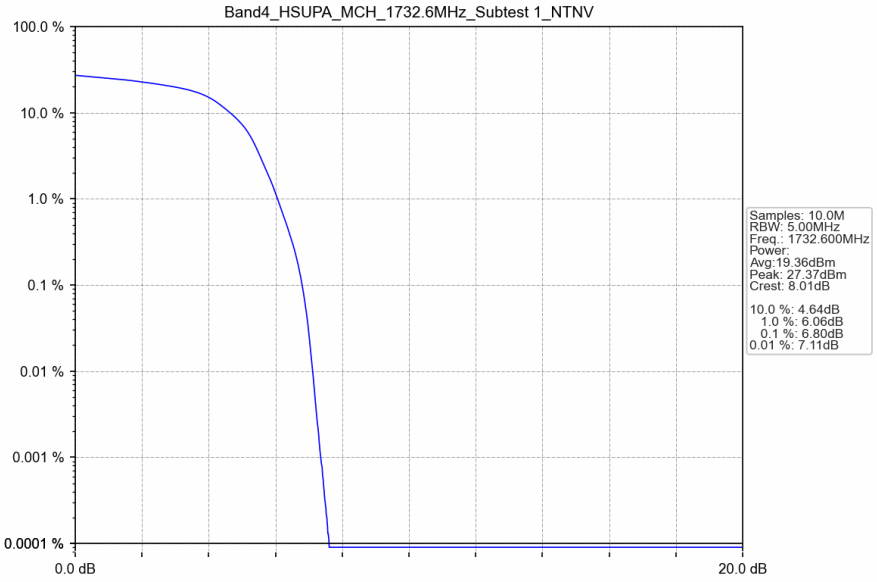
BandIV_HSDPA_HCH_1752.6MHz_Subtest 1_NTNV



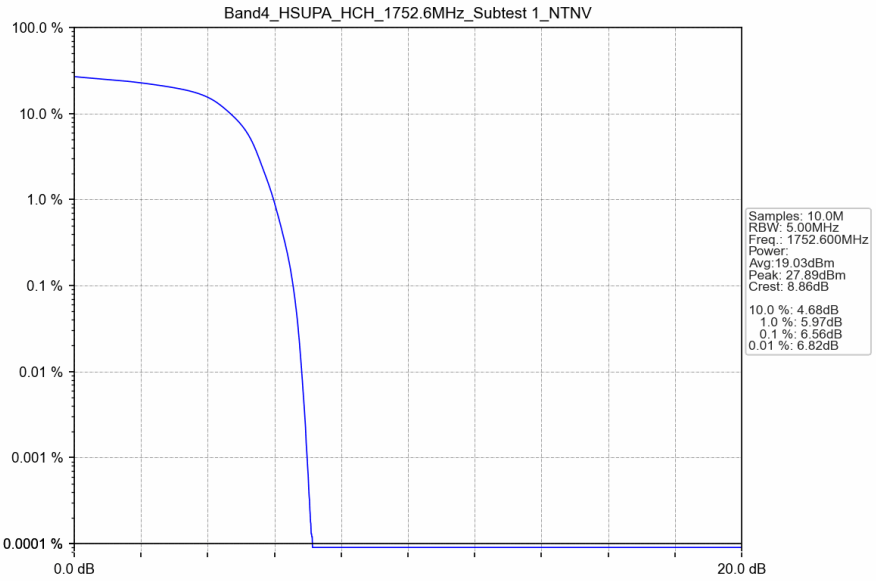
BandIV_HSUPA_LCH_1712.4MHz_Subtest 1_NTNV



BandIV_HSUPA_MCH_1732.6MHz_Subtest 1_NTNV



BandIV_HSUPA_HCH_1752.6MHz_Subtest 1_NTNV



5. Spurious Emission

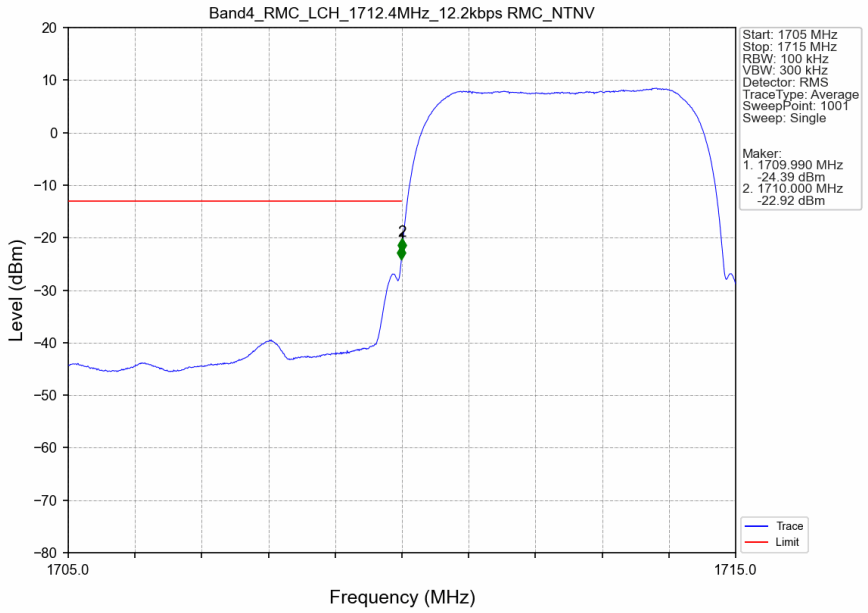
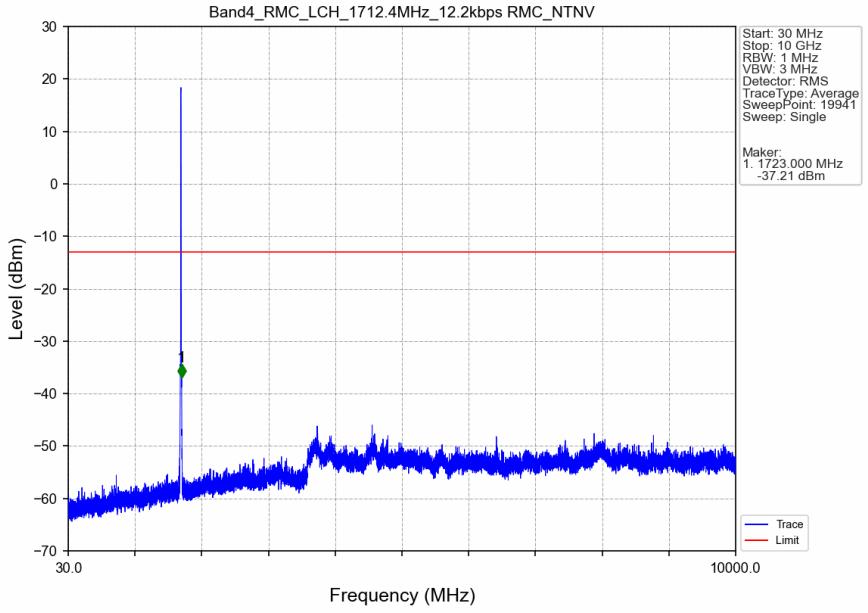
5.1 Test Result

5.1.1 BandIV

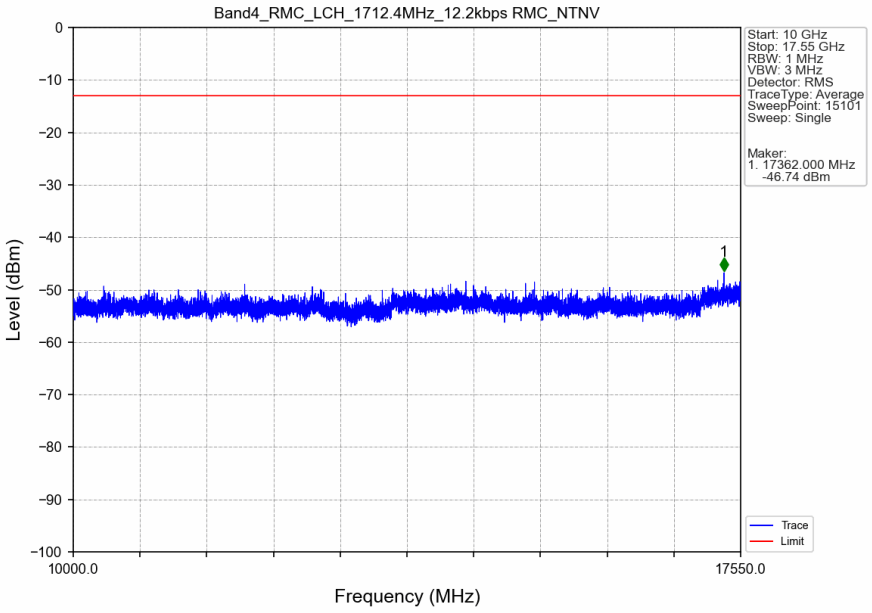
Band: IV						
ENV	Mode		Frequency (MHz)	Spurious Emission		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	Refer To Test Graph		Pass
			1732.6	Refer To Test Graph		Pass
			1752.6	Refer To Test Graph		Pass
	HSDPA	Subtest 1	1712.4	Refer To Test Graph		Pass
			1732.6	Refer To Test Graph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

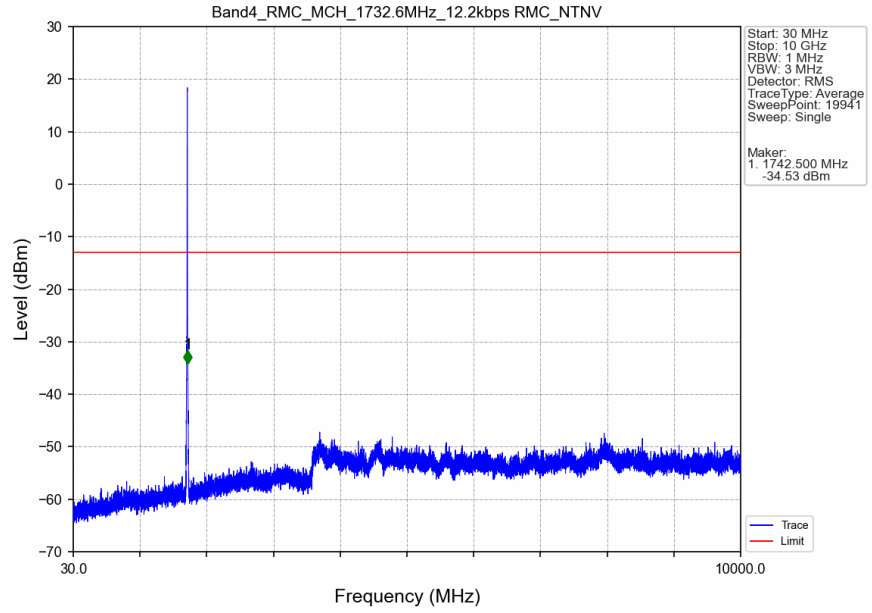
5.2.1 BandIV

BandIV_RMC_LCH_1712.4MHz_12.2kbps RMC_NTNV

BandIV_RMC_LCH_1712.4MHz_12.2kbps RMC_NTNV


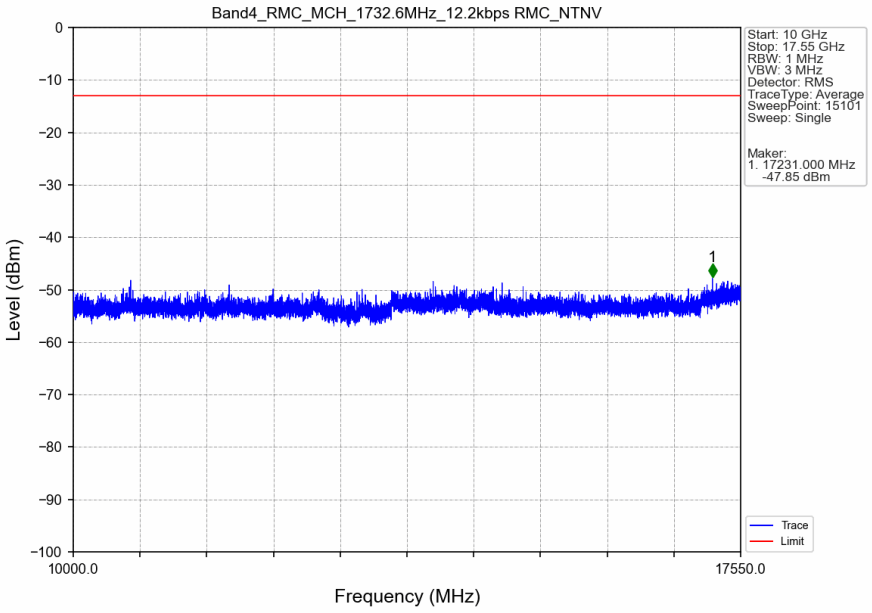
BandIV_RMC_LCH_1712.4MHz_12.2kbps RMC_NTNV



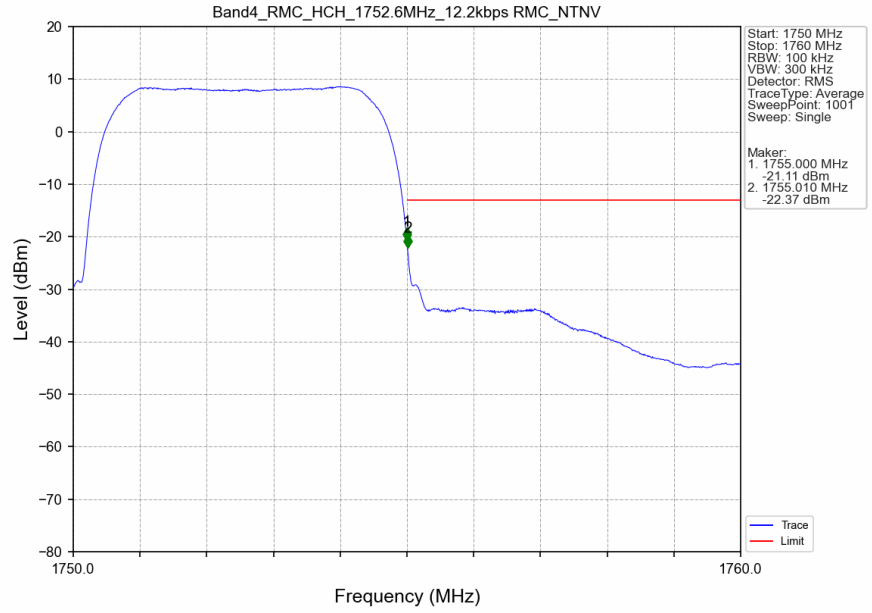
BandIV_RMC_MCH_1732.6MHz_12.2kbps RMC_NTNV



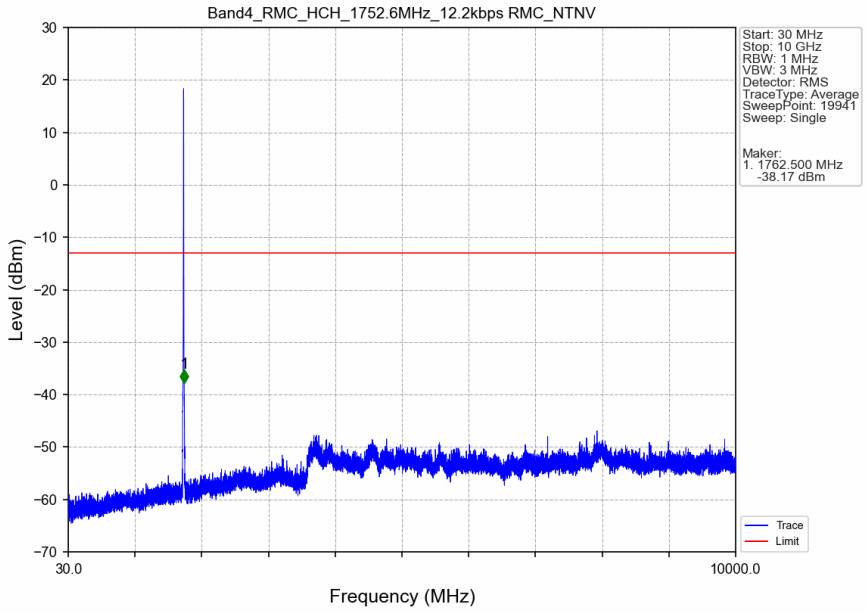
BandIV_RMC_MCH_1732.6MHz_12.2kbps RMC_NTNV



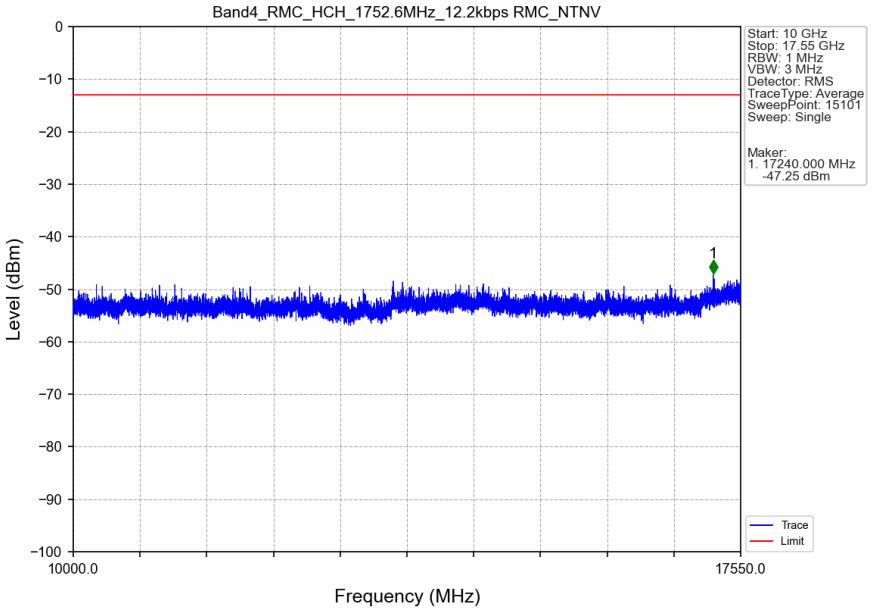
BandIV_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



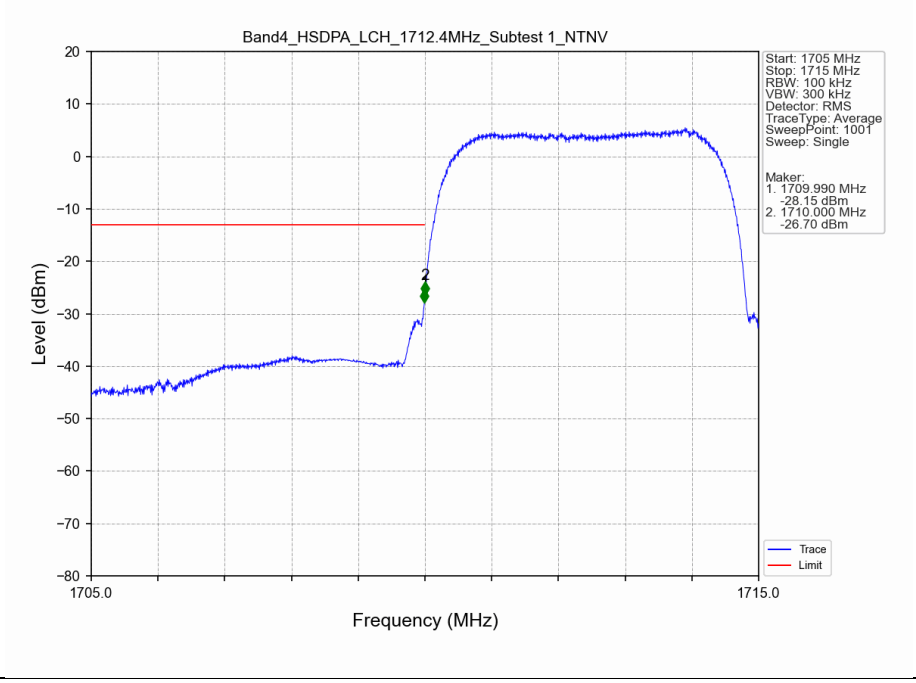
BandIV_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



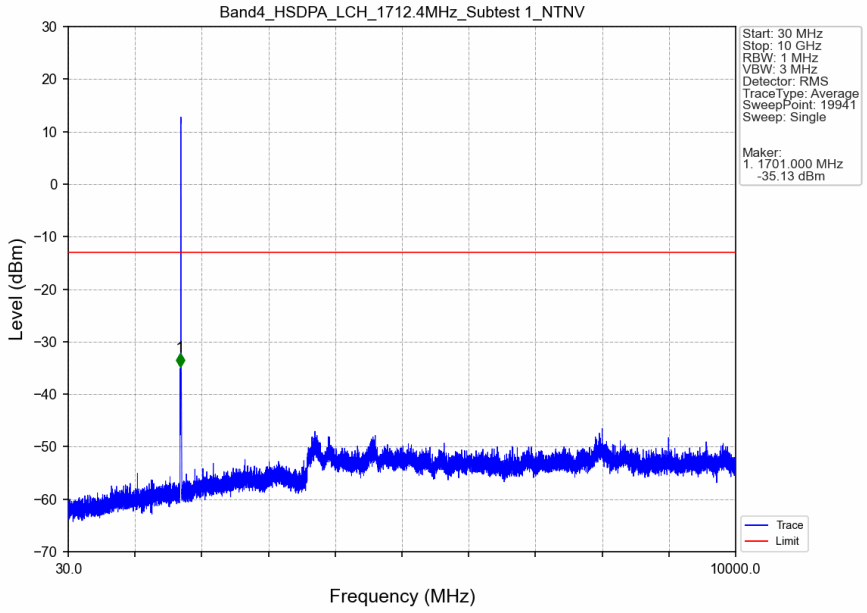
BandIV_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



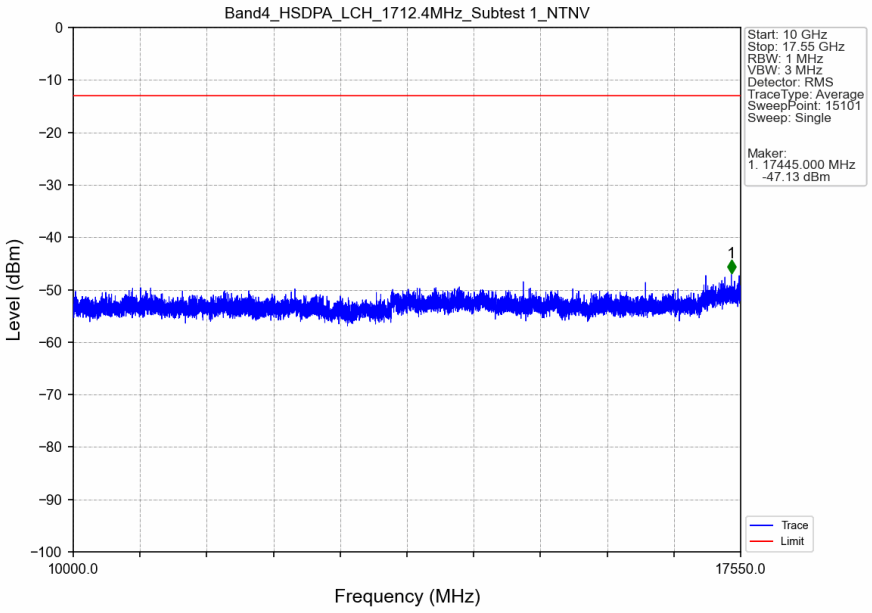
BandIV_HSDPA_LCH_1712.4MHz_Subtest 1_NTNV



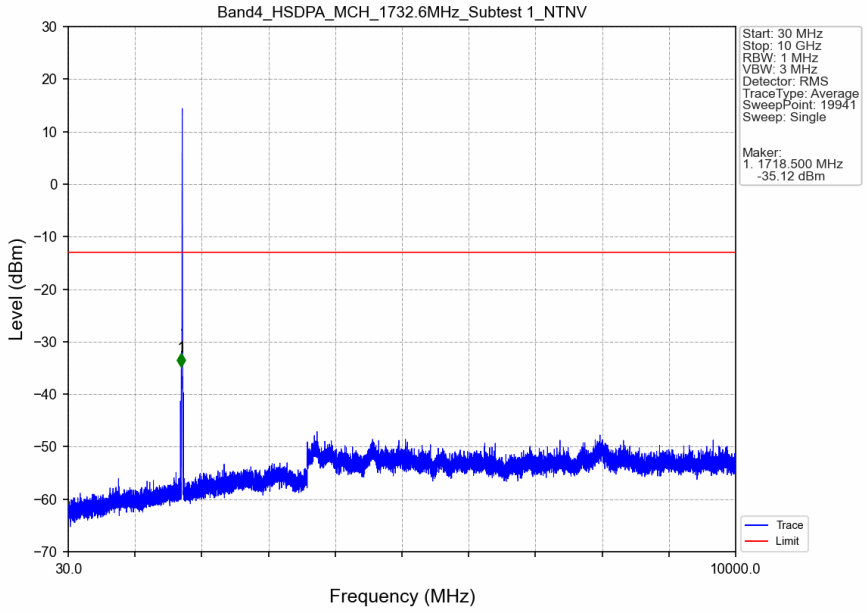
BandIV_HSDPA_LCH_1712.4MHz_Subtest 1_NTNV



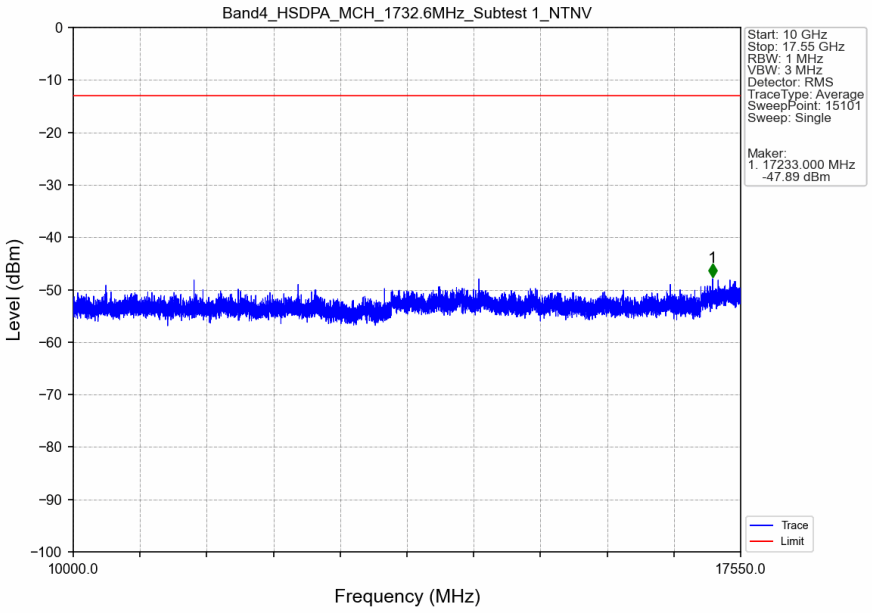
BandIV_HSDPA_LCH_1712.4MHz_Subtest 1_NTNV



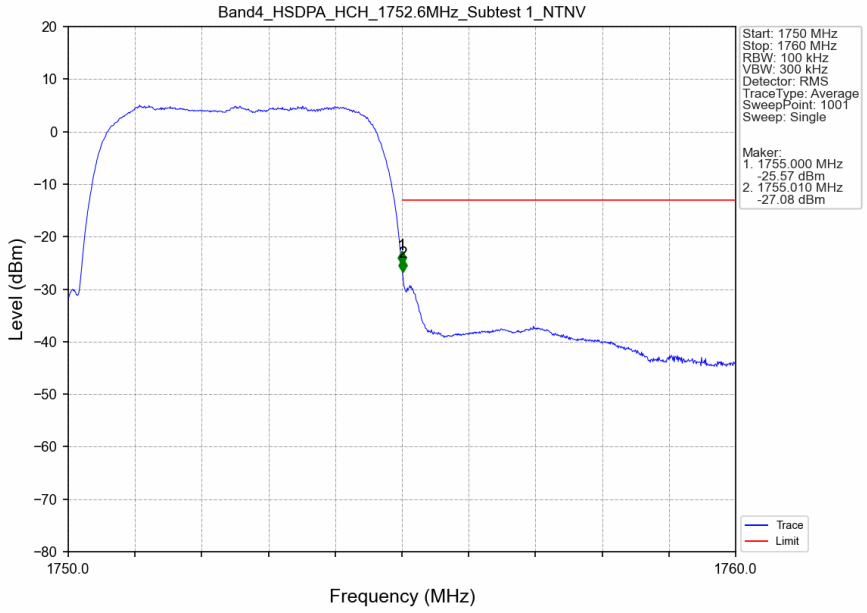
BandIV_HSDPA_MCH_1732.6MHz_Subtest 1_NTNV



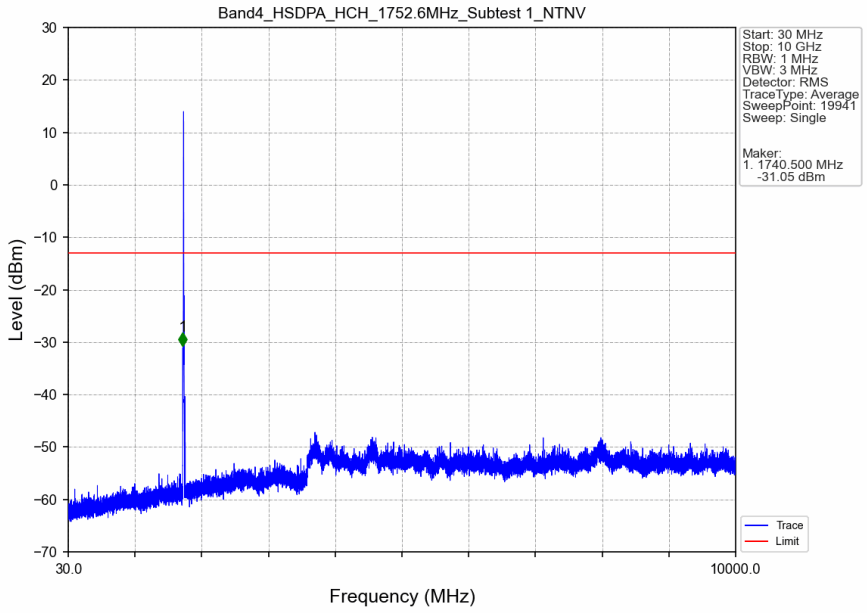
BandIV_HSDPA_MCH_1732.6MHz_Subtest 1_NTNV



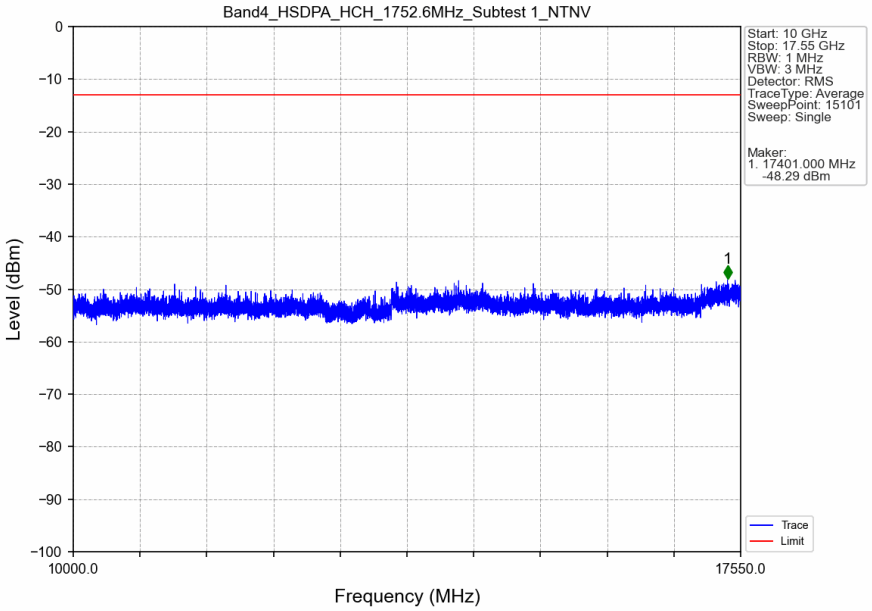
BandIV_HSDPA_HCH_1752.6MHz_Subtest 1_NTNV



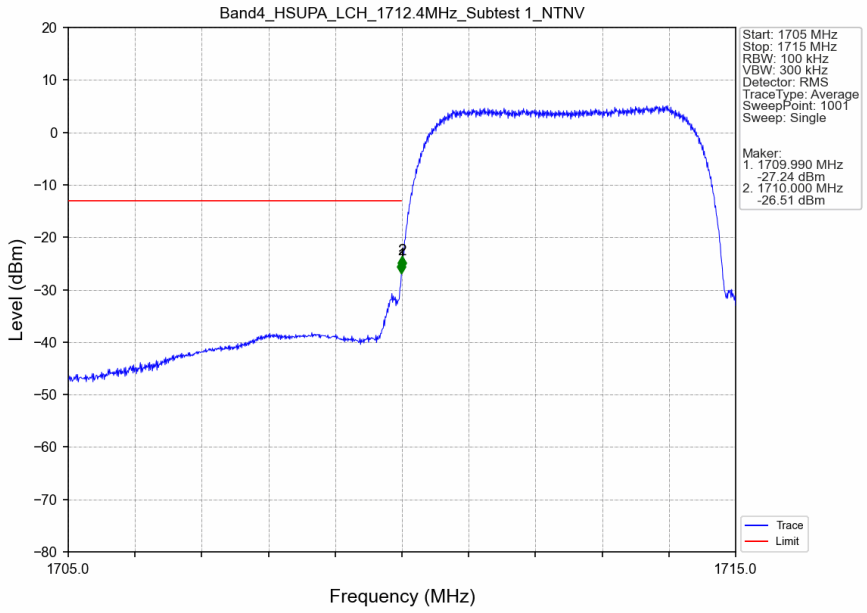
BandIV_HSDPA_HCH_1752.6MHz_Subtest 1_NTNV



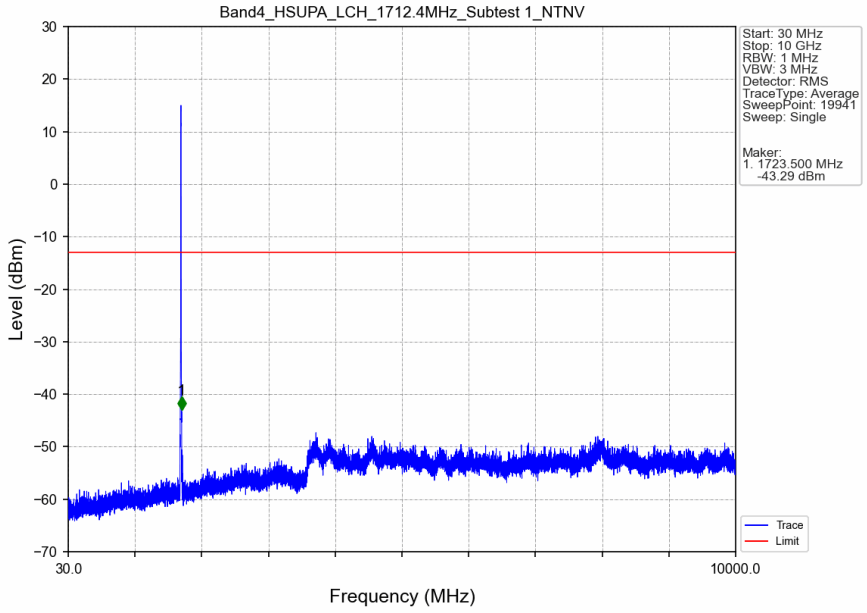
BandIV_HSDPA_HCH_1752.6MHz_Subtest 1_NTNV



BandIV_HSUPA_LCH_1712.4MHz_Subtest 1_NTNV



BandIV_HSUPA_LCH_1712.4MHz_Subtest 1_NTNV



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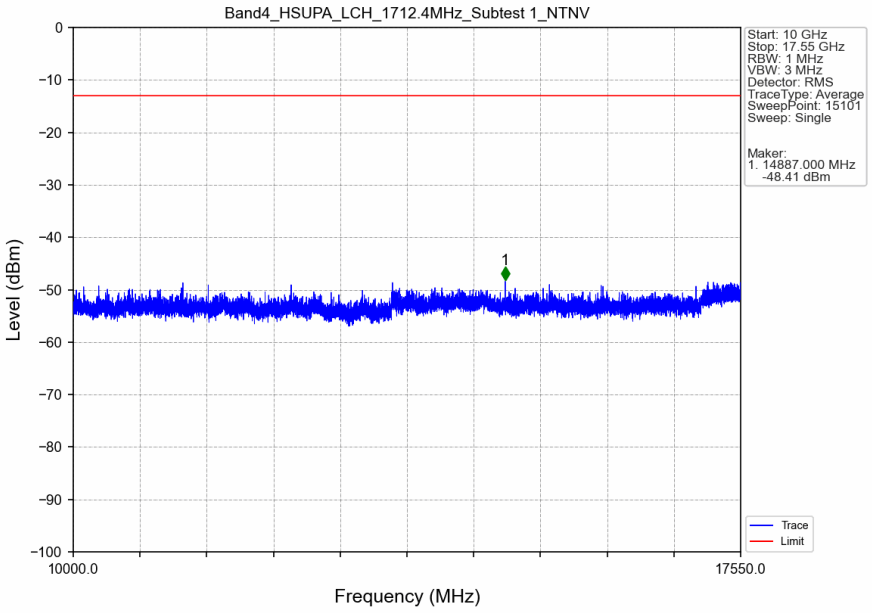
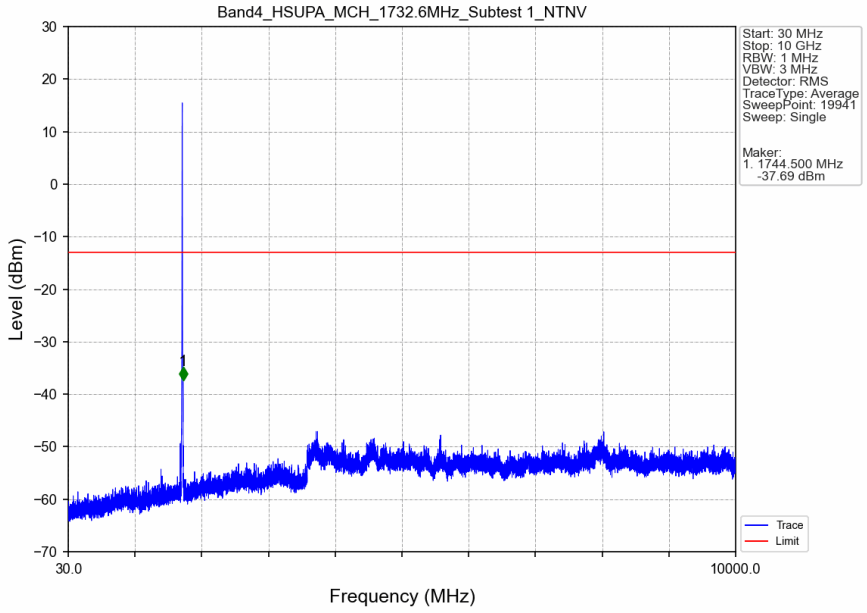
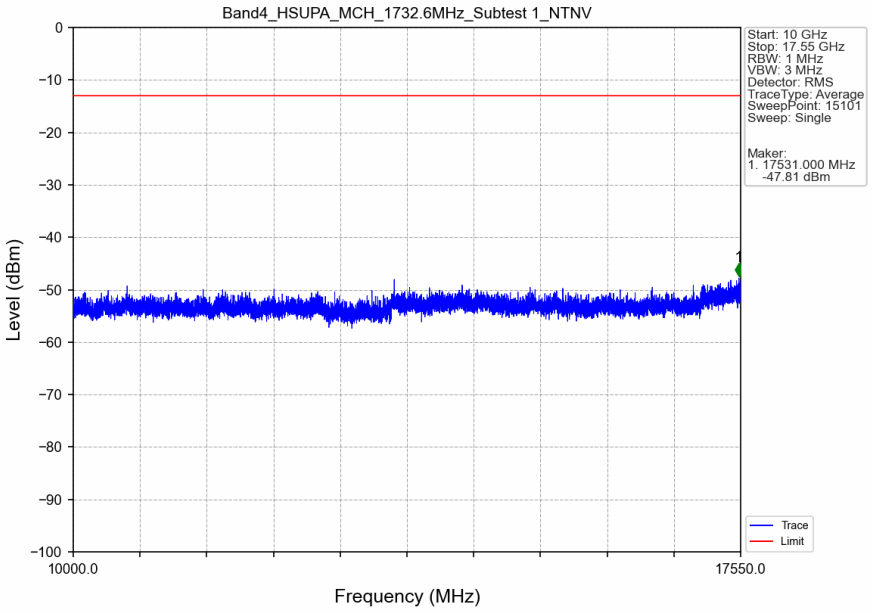


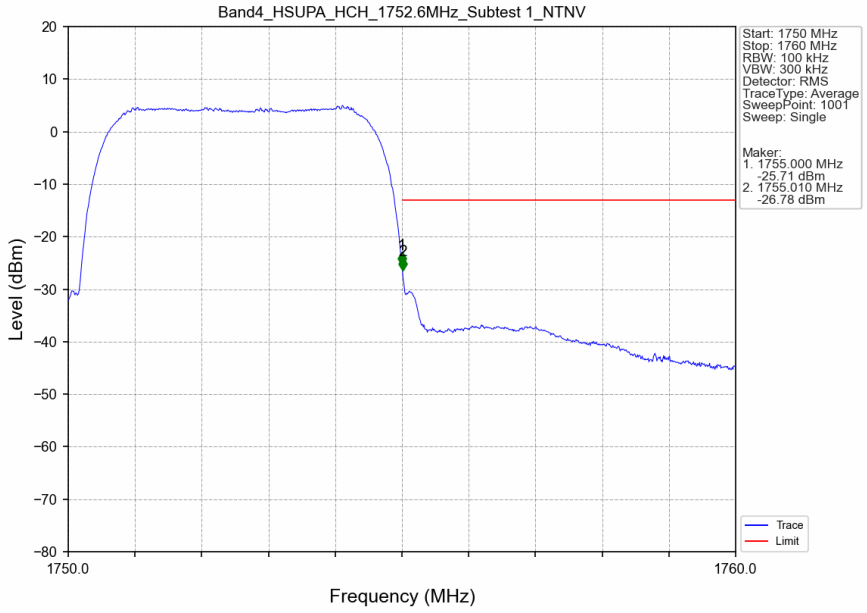
BandIV_HSUPA_MCH_1732.6MHz_Subtest 1_NTNV



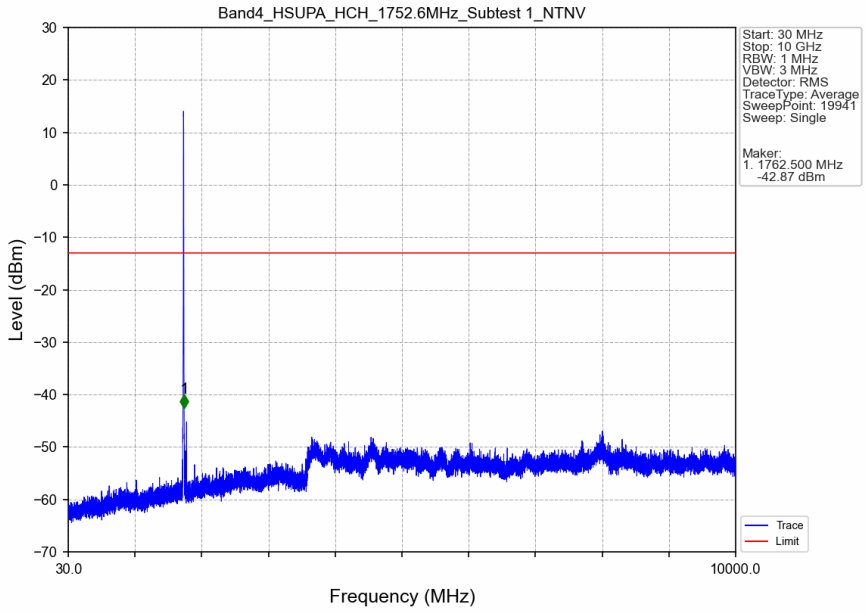
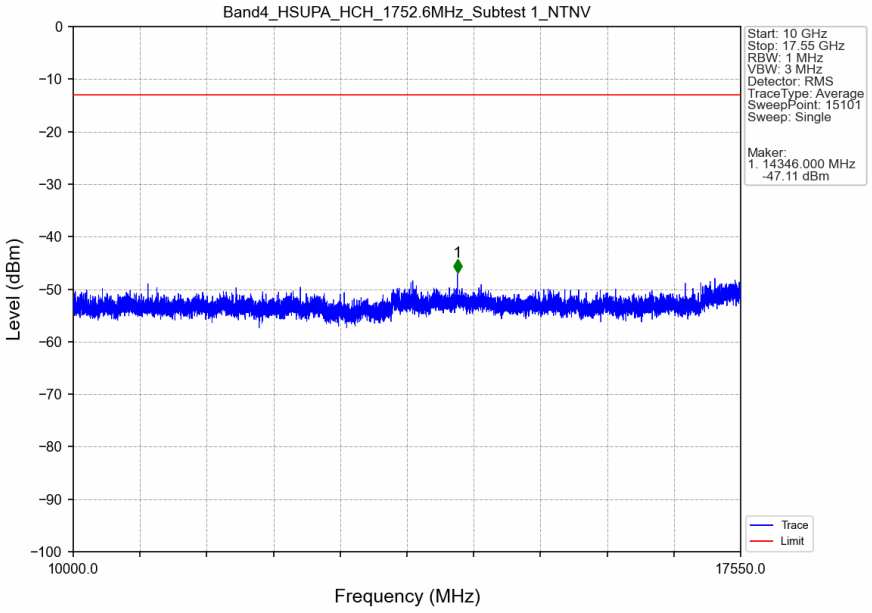
BandIV_HSUPA_MCH_1732.6MHz_Subtest 1_NTNV



BandIV_HSUPA_HCH_1752.6MHz_Subtest 1_NTNV



BandIV_HSUPA_HCH_1752.6MHz_Subtest 1_NTNV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