

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 Band IV_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	23.49	1.10	24.59	<=30	Pass
			1732.6	23.81	1.10	24.91	<=30	Pass
			1752.6	24.00	1.10	25.10	<=30	Pass
	HSDPA	Subtest 1	1712.4	21.61	1.10	22.71	<=30	Pass
		Subtest 2	1712.4	21.60	1.10	22.70	<=30	Pass
		Subtest 3	1712.4	21.60	1.10	22.70	<=30	Pass
		Subtest 4	1712.4	21.54	1.10	22.64	<=30	Pass
		Subtest 1	1732.6	21.89	1.10	22.99	<=30	Pass
		Subtest 2	1732.6	21.90	1.10	23.00	<=30	Pass
		Subtest 3	1732.6	21.90	1.10	23.00	<=30	Pass
		Subtest 4	1732.6	21.83	1.10	22.93	<=30	Pass
		Subtest 1	1752.6	22.13	1.10	23.23	<=30	Pass
		Subtest 2	1752.6	22.12	1.10	23.22	<=30	Pass
		Subtest 3	1752.6	22.08	1.10	23.18	<=30	Pass
		Subtest 4	1752.6	22.10	1.10	23.20	<=30	Pass
	HSUPA	Subtest 1	1712.4	19.53	1.10	20.63	<=30	Pass
		Subtest 2	1712.4	19.65	1.10	20.75	<=30	Pass
		Subtest 3	1712.4	19.29	1.10	20.39	<=30	Pass
		Subtest 4	1712.4	18.94	1.10	20.04	<=30	Pass
		Subtest 5	1712.4	19.53	1.10	20.63	<=30	Pass
		Subtest 1	1732.6	19.25	1.10	20.35	<=30	Pass
		Subtest 2	1732.6	19.56	1.10	20.66	<=30	Pass
		Subtest 3	1732.6	19.13	1.10	20.23	<=30	Pass
		Subtest 4	1732.6	19.79	1.10	20.89	<=30	Pass
		Subtest 5	1732.6	19.78	1.10	20.88	<=30	Pass
		Subtest 1	1752.6	19.46	1.10	20.56	<=30	Pass
		Subtest 2	1752.6	19.79	1.10	20.89	<=30	Pass
		Subtest 3	1752.6	19.48	1.10	20.58	<=30	Pass
		Subtest 4	1752.6	19.88	1.10	20.98	<=30	Pass
		Subtest 5	1752.6	19.56	1.10	20.66	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

2. Frequency Stability

2.1 Test Result

2.1.1 Band IV

Band: IV							
Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
RMC	1712.4	20	3.8	2.024	0.0012	-2.5 to 2.5	Pass
			4	1.338	0.0008	-2.5 to 2.5	Pass
			4.2	3.004	0.0018	-2.5 to 2.5	Pass
		-30	4	1.581	0.0009	-2.5 to 2.5	Pass
		-20	4	1.895	0.0011	-2.5 to 2.5	Pass
		-10	4	1.824	0.0011	-2.5 to 2.5	Pass
		0	4	2.103	0.0012	-2.5 to 2.5	Pass
		10	4	1.616	0.0009	-2.5 to 2.5	Pass
		30	4	1.080	0.0006	-2.5 to 2.5	Pass
		40	4	1.602	0.0009	-2.5 to 2.5	Pass
		50	4	1.509	0.0009	-2.5 to 2.5	Pass
	1732.6	20	3.8	-0.837	-0.0005	-2.5 to 2.5	Pass
			4	-0.887	-0.0005	-2.5 to 2.5	Pass
			4.2	-1.094	-0.0006	-2.5 to 2.5	Pass
		-30	4	-1.316	-0.0008	-2.5 to 2.5	Pass
		-20	4	-0.987	-0.0006	-2.5 to 2.5	Pass
		-10	4	-0.687	-0.0004	-2.5 to 2.5	Pass
		0	4	-0.701	-0.0004	-2.5 to 2.5	Pass
		10	4	-0.007	0.0000	-2.5 to 2.5	Pass
		30	4	-1.516	-0.0009	-2.5 to 2.5	Pass
		40	4	-0.644	-0.0004	-2.5 to 2.5	Pass
		50	4	-1.280	-0.0007	-2.5 to 2.5	Pass
	1752.6	20	3.8	-2.782	-0.0016	-2.5 to 2.5	Pass
			4	-3.369	-0.0019	-2.5 to 2.5	Pass
			4.2	-2.553	-0.0015	-2.5 to 2.5	Pass
		-30	4	-3.755	-0.0021	-2.5 to 2.5	Pass
		-20	4	-2.618	-0.0015	-2.5 to 2.5	Pass
		-10	4	-3.991	-0.0023	-2.5 to 2.5	Pass
		0	4	-3.476	-0.0020	-2.5 to 2.5	Pass
		10	4	-4.070	-0.0023	-2.5 to 2.5	Pass
		30	4	-3.140	-0.0018	-2.5 to 2.5	Pass
		40	4	-3.526	-0.0020	-2.5 to 2.5	Pass
		50	4	-3.083	-0.0018	-2.5 to 2.5	Pass
HSDPA	1712.4	20	3.8	0.823	0.0005	-2.5 to 2.5	Pass
			4	-0.522	-0.0003	-2.5 to 2.5	Pass
			4.2	0.465	0.0003	-2.5 to 2.5	Pass
		-30	4	0.508	0.0003	-2.5 to 2.5	Pass
		-20	4	0.930	0.0005	-2.5 to 2.5	Pass
		-10	4	0.637	0.0004	-2.5 to 2.5	Pass
		0	4	0.372	0.0002	-2.5 to 2.5	Pass
		10	4	-0.257	-0.0002	-2.5 to 2.5	Pass
		30	4	0.358	0.0002	-2.5 to 2.5	Pass
		40	4	0.143	0.0001	-2.5 to 2.5	Pass
		50	4	0.436	0.0003	-2.5 to 2.5	Pass
	1732.6	20	3.8	-0.901	-0.0005	-2.5 to 2.5	Pass
			4	-1.030	-0.0006	-2.5 to 2.5	Pass
			4.2	-0.322	-0.0002	-2.5 to 2.5	Pass

		-30	4	-0.894	-0.0005	-2.5 to 2.5	Pass
		-20	4	-0.851	-0.0005	-2.5 to 2.5	Pass
		-10	4	-0.451	-0.0003	-2.5 to 2.5	Pass
		0	4	-1.230	-0.0007	-2.5 to 2.5	Pass
		10	4	-0.908	-0.0005	-2.5 to 2.5	Pass
		30	4	-1.481	-0.0009	-2.5 to 2.5	Pass
		40	4	-0.815	-0.0005	-2.5 to 2.5	Pass
		50	4	-0.737	-0.0004	-2.5 to 2.5	Pass
	1752.6	20	3.8	-4.370	-0.0025	-2.5 to 2.5	Pass
			4	-4.578	-0.0026	-2.5 to 2.5	Pass
			4.2	-2.983	-0.0017	-2.5 to 2.5	Pass
		-30	4	-4.613	-0.0026	-2.5 to 2.5	Pass
		-20	4	-3.583	-0.0020	-2.5 to 2.5	Pass
		-10	4	-3.455	-0.0020	-2.5 to 2.5	Pass
		0	4	-4.678	-0.0027	-2.5 to 2.5	Pass
		10	4	-4.148	-0.0024	-2.5 to 2.5	Pass
		30	4	-3.612	-0.0021	-2.5 to 2.5	Pass
		40	4	-4.148	-0.0024	-2.5 to 2.5	Pass
		50	4	-4.356	-0.0025	-2.5 to 2.5	Pass
HSUPA	1712.4	20	3.8	5.486	0.0032	-2.5 to 2.5	Pass
			4	6.731	0.0039	-2.5 to 2.5	Pass
			4.2	4.435	0.0026	-2.5 to 2.5	Pass
		-30	4	6.623	0.0039	-2.5 to 2.5	Pass
		-20	4	4.485	0.0026	-2.5 to 2.5	Pass
		-10	4	5.279	0.0031	-2.5 to 2.5	Pass
		0	4	4.277	0.0025	-2.5 to 2.5	Pass
		10	4	4.964	0.0029	-2.5 to 2.5	Pass
		30	4	3.433	0.0020	-2.5 to 2.5	Pass
		40	4	5.236	0.0031	-2.5 to 2.5	Pass
		50	4	5.000	0.0029	-2.5 to 2.5	Pass
	1732.6	20	3.8	-0.215	-0.0001	-2.5 to 2.5	Pass
			4	0.315	0.0002	-2.5 to 2.5	Pass
			4.2	1.187	0.0007	-2.5 to 2.5	Pass
		-30	4	1.910	0.0011	-2.5 to 2.5	Pass
		-20	4	1.481	0.0009	-2.5 to 2.5	Pass
		-10	4	0.916	0.0005	-2.5 to 2.5	Pass
		0	4	0.930	0.0005	-2.5 to 2.5	Pass
		10	4	1.037	0.0006	-2.5 to 2.5	Pass
		30	4	0.479	0.0003	-2.5 to 2.5	Pass
		40	4	0.014	0.0000	-2.5 to 2.5	Pass
		50	4	1.373	0.0008	-2.5 to 2.5	Pass
	1752.6	20	3.8	-0.887	-0.0005	-2.5 to 2.5	Pass
			4	-0.694	-0.0004	-2.5 to 2.5	Pass
			4.2	0.508	0.0003	-2.5 to 2.5	Pass
		-30	4	-1.824	-0.0010	-2.5 to 2.5	Pass
		-20	4	-1.187	-0.0007	-2.5 to 2.5	Pass
		-10	4	-2.031	-0.0012	-2.5 to 2.5	Pass
		0	4	-1.509	-0.0009	-2.5 to 2.5	Pass
		10	4	-1.373	-0.0008	-2.5 to 2.5	Pass
		30	4	-1.245	-0.0007	-2.5 to 2.5	Pass
		40	4	-1.295	-0.0007	-2.5 to 2.5	Pass
		50	4	-1.688	-0.0010	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 Band IV_OBW

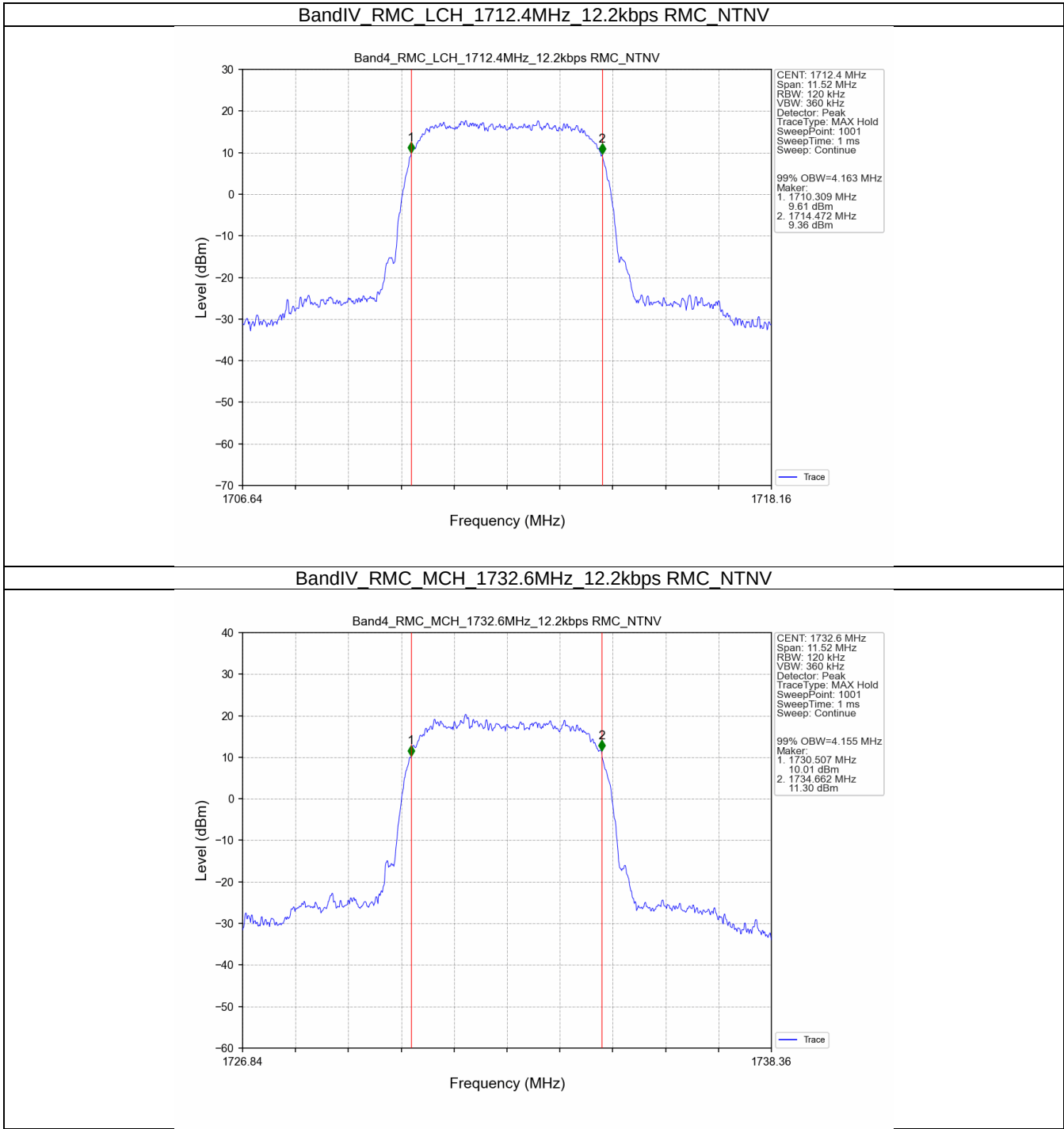
Band: IV						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	4.163	/	Pass
			1732.6	4.155	/	Pass
			1752.6	4.159	/	Pass
	HSDPA	Subtest 1	1712.4	4.172	/	Pass
			1732.6	4.158	/	Pass
			1752.6	4.168	/	Pass
	HSUPA	Subtest 1	1712.4	4.183	/	Pass
			1732.6	4.154	/	Pass
			1752.6	4.164	/	Pass

3.1.2 Band IV_XDB

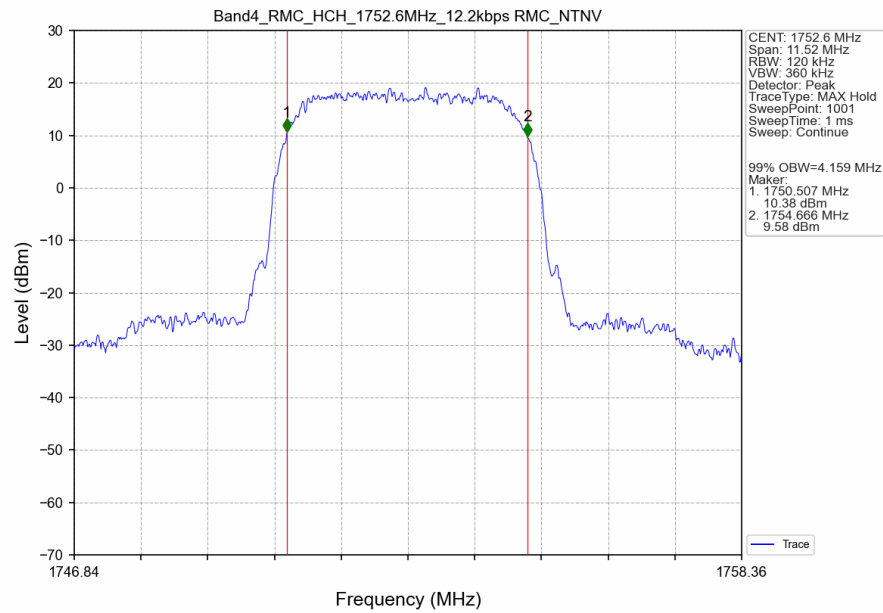
Band: IV						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	4.749	/	Pass
			1732.6	4.726	/	Pass
			1752.6	4.732	/	Pass
	HSDPA	Subtest 1	1712.4	4.737	/	Pass
			1732.6	4.727	/	Pass
			1752.6	4.755	/	Pass
	HSUPA	Subtest 1	1712.4	4.726	/	Pass
			1732.6	4.704	/	Pass
			1752.6	4.729	/	Pass

3.2 Test Graph

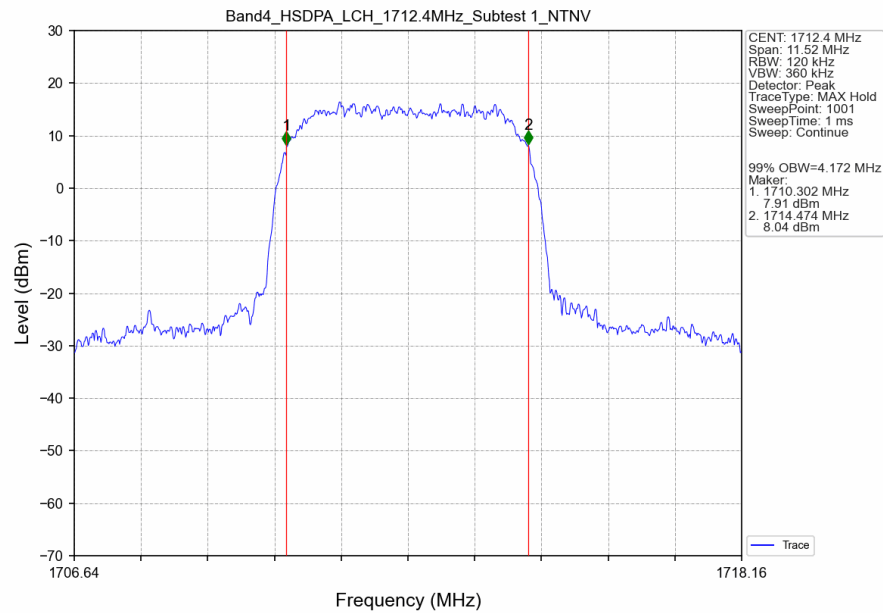
3.2.1 BandIV_OBW



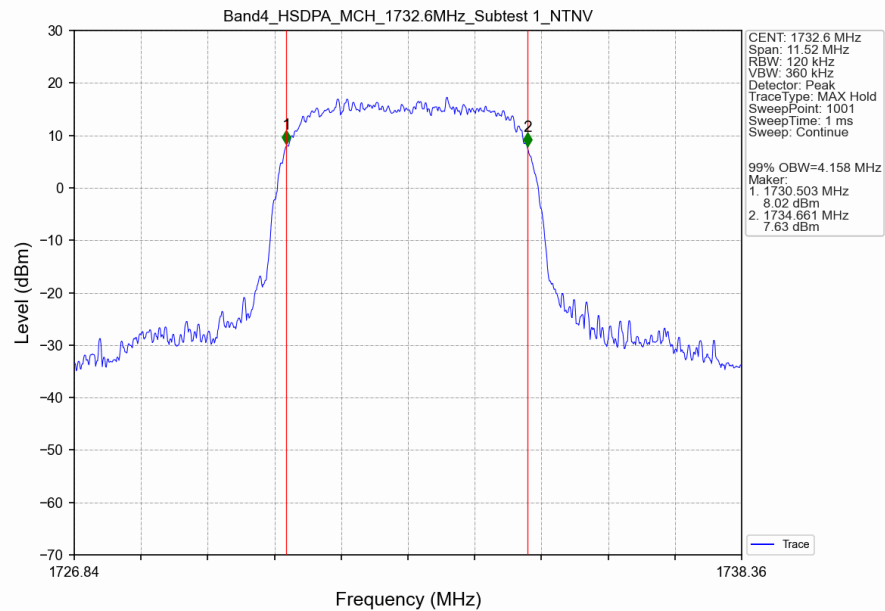
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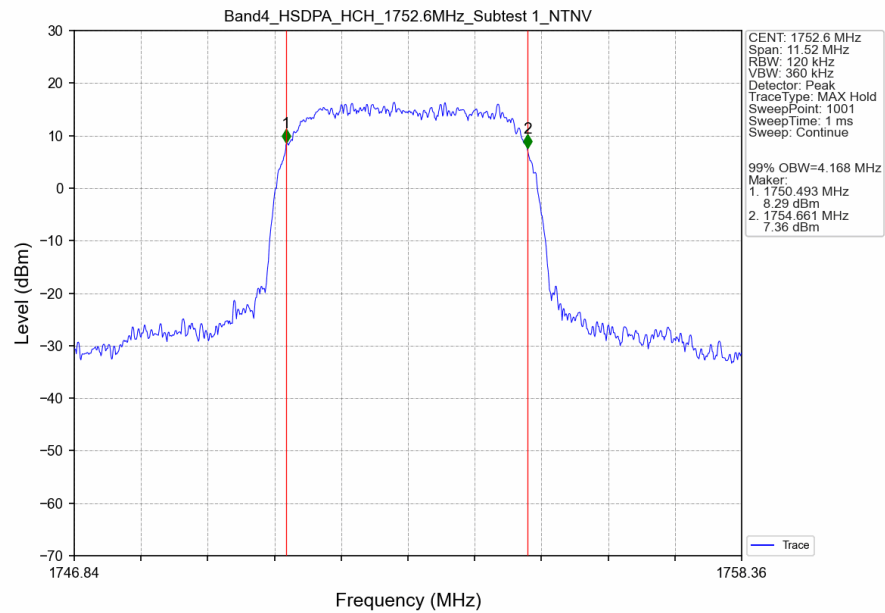
BandIV_HSDPA_LCH_1712.4MHz_Subtest 1_NTNV



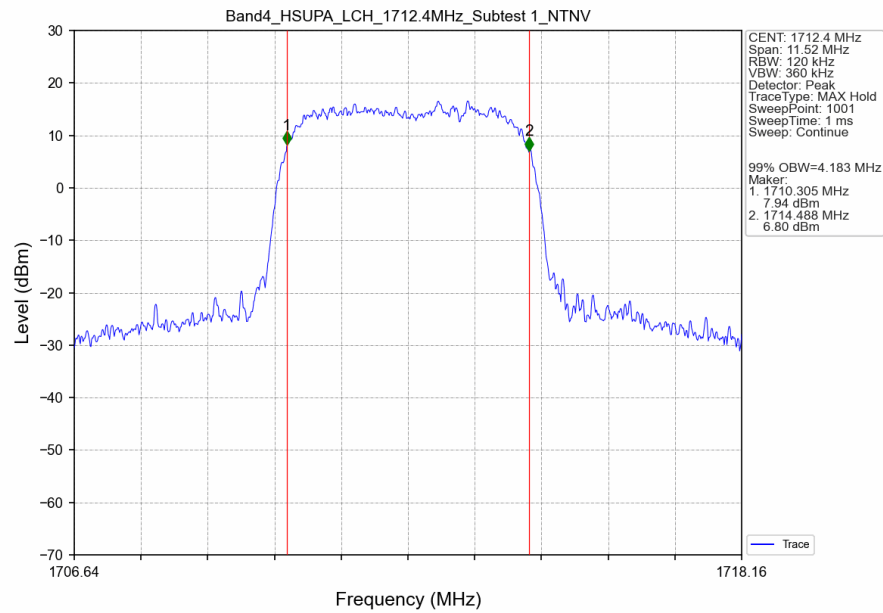
BandIV HSDPA MCH 1732.6MHz Subtest 1_NTNV



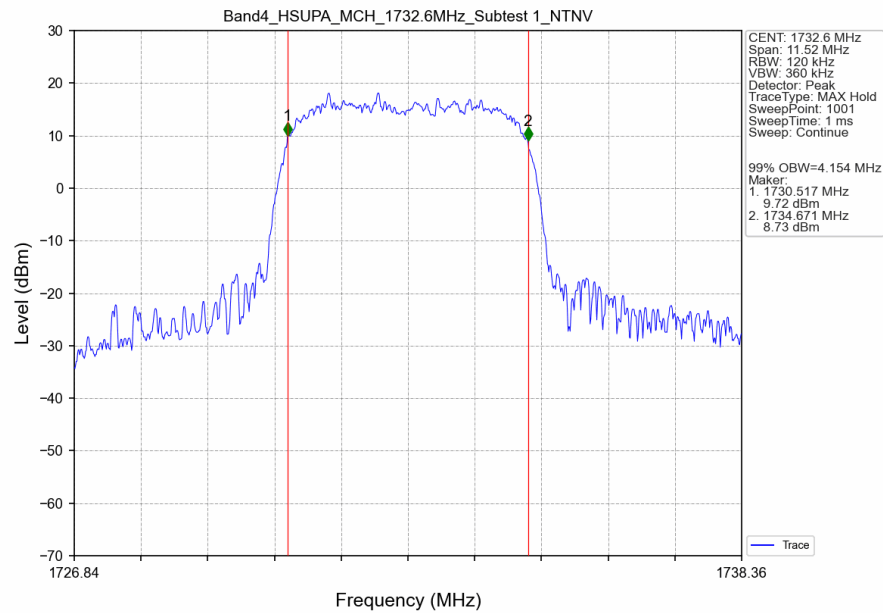
BandIV HSDPA HCH 1752.6MHz Subtest 1_NTNV



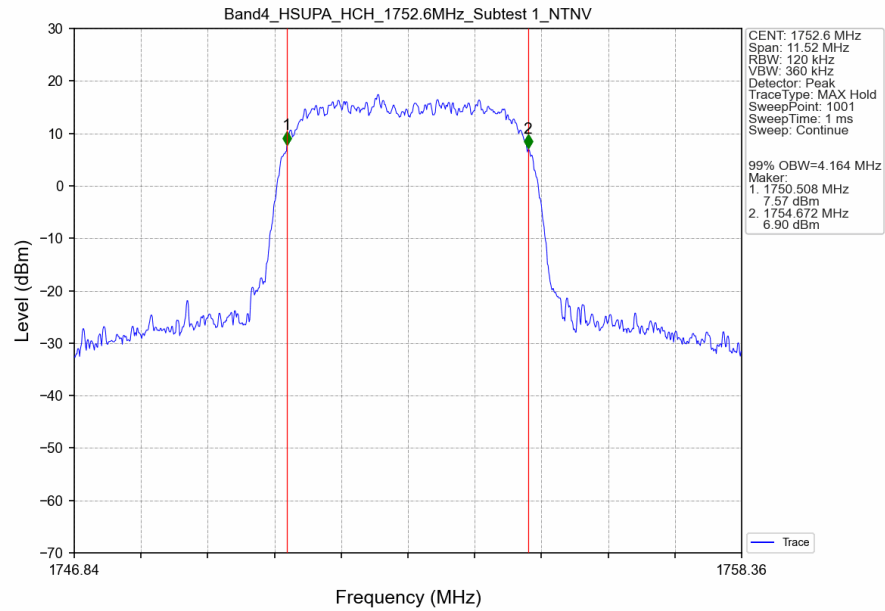
BandIV HSUPA LCH 1712.4MHz Subtest 1 NTNV



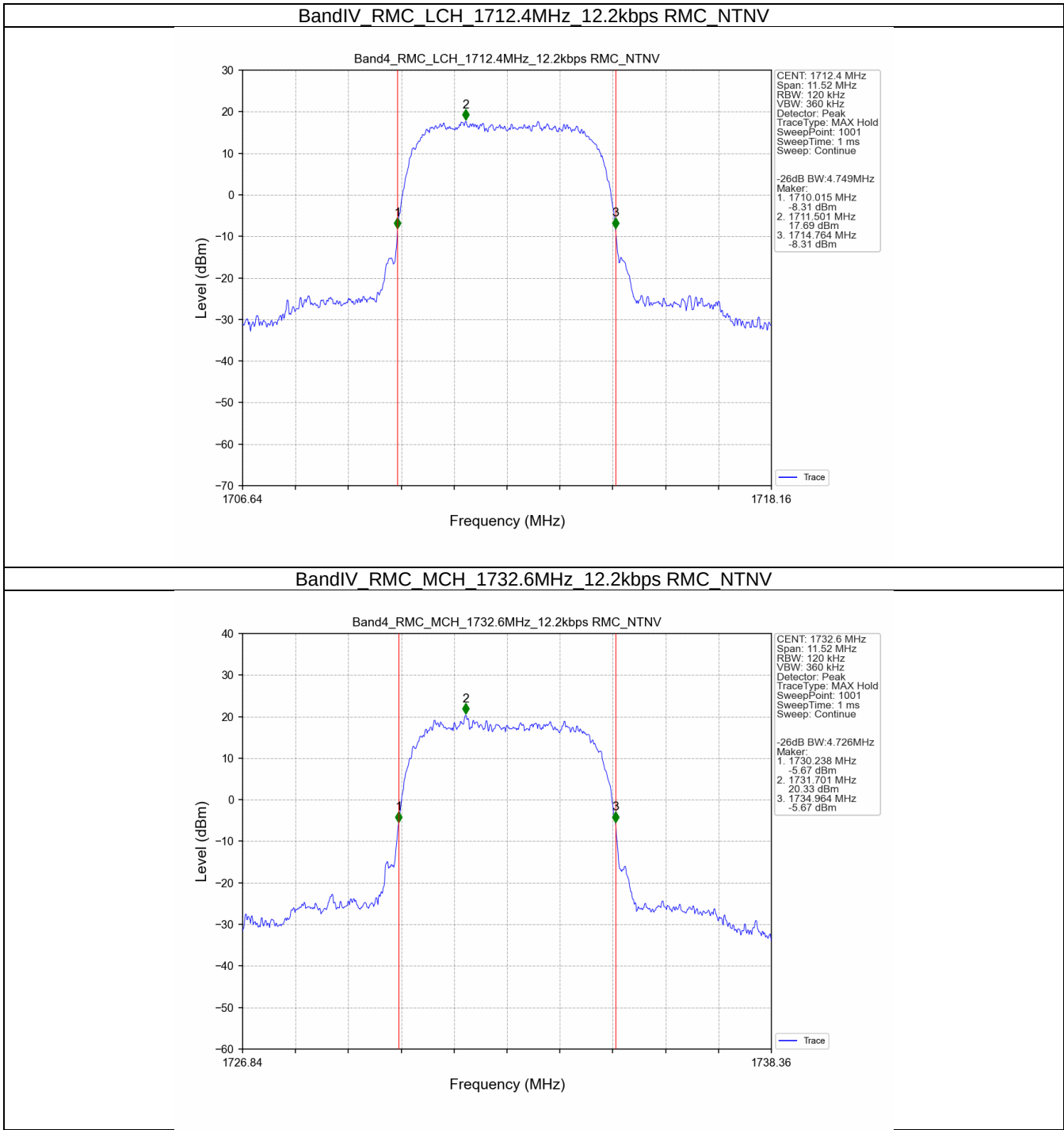
BandIV HSUPA MCH 1732.6MHz Subtest 1 NTNV



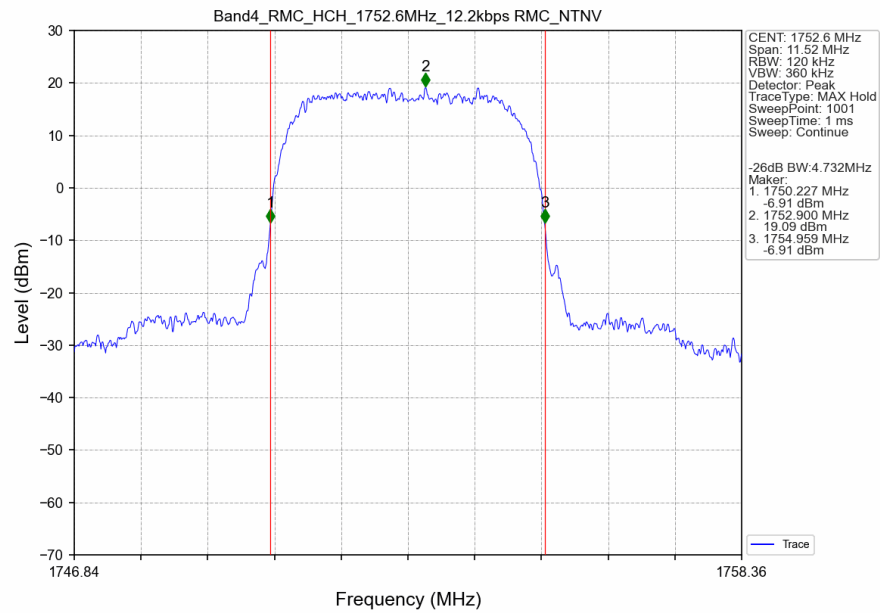
BandIV HSUPA HCH 1752.6MHz Subtest 1 NTV



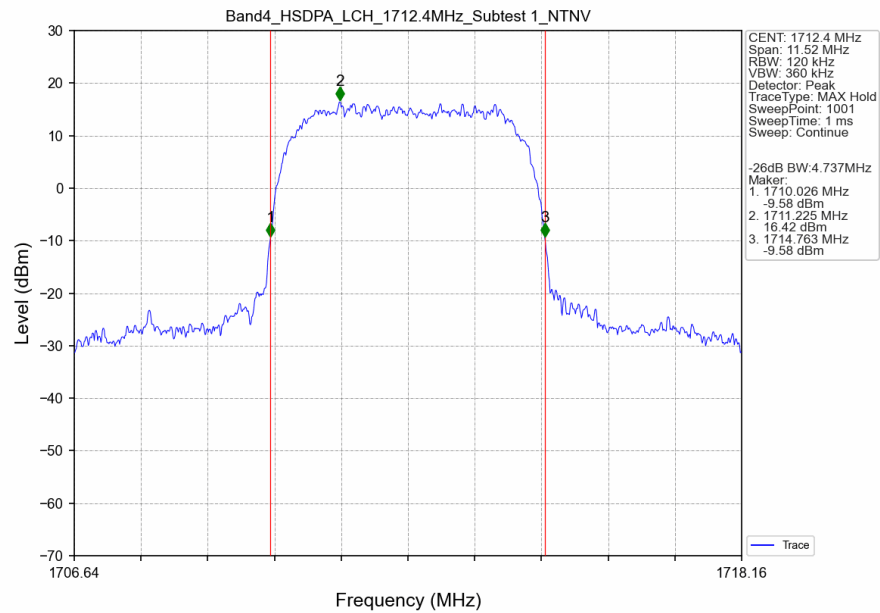
3.2.2 BandIV_XDB



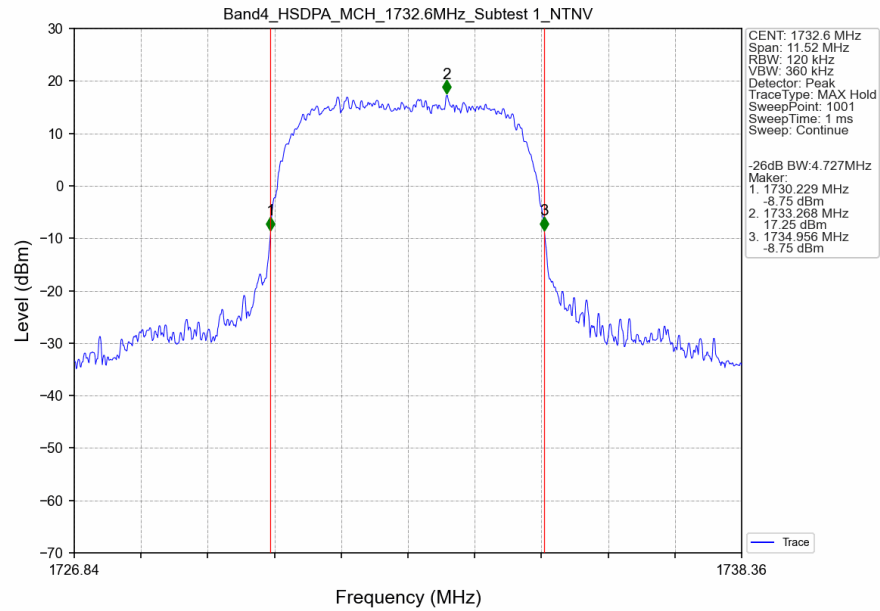
BandIV_RMC_HCH_1752.6MHz_12.2kbps_RMC_NTNV



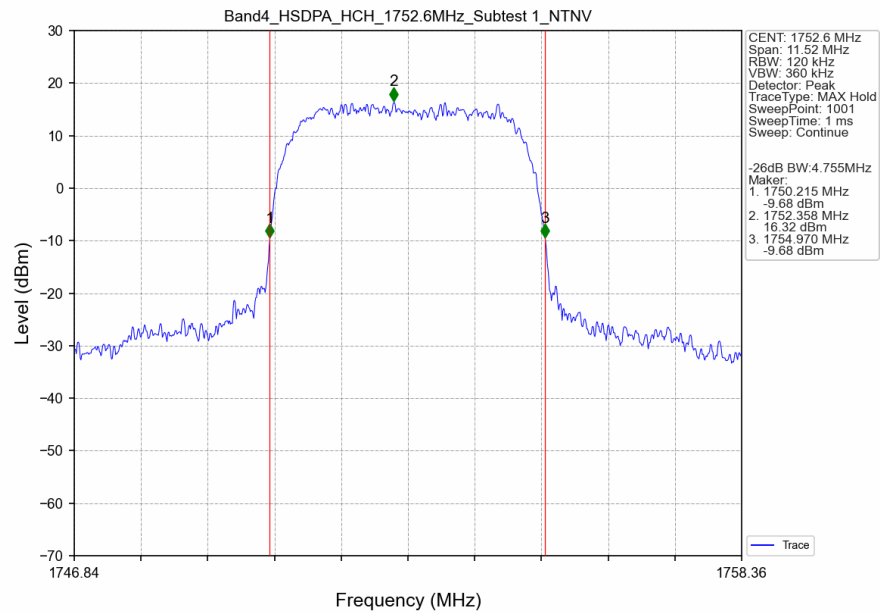
BandIV_HSDPA_LCH_1712.4MHz_Subtest 1_NTNV



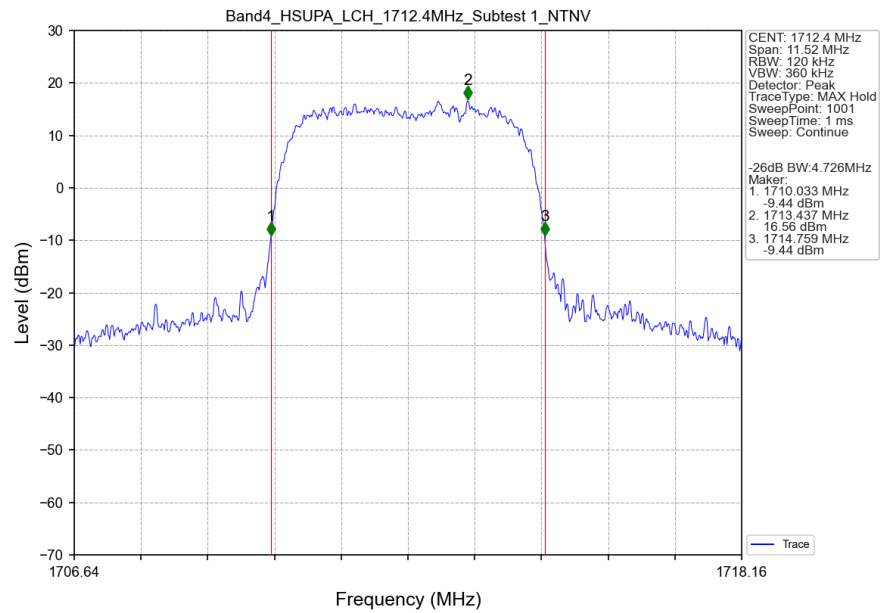
BandIV HSDPA MCH 1732.6MHz Subtest 1 NTNV



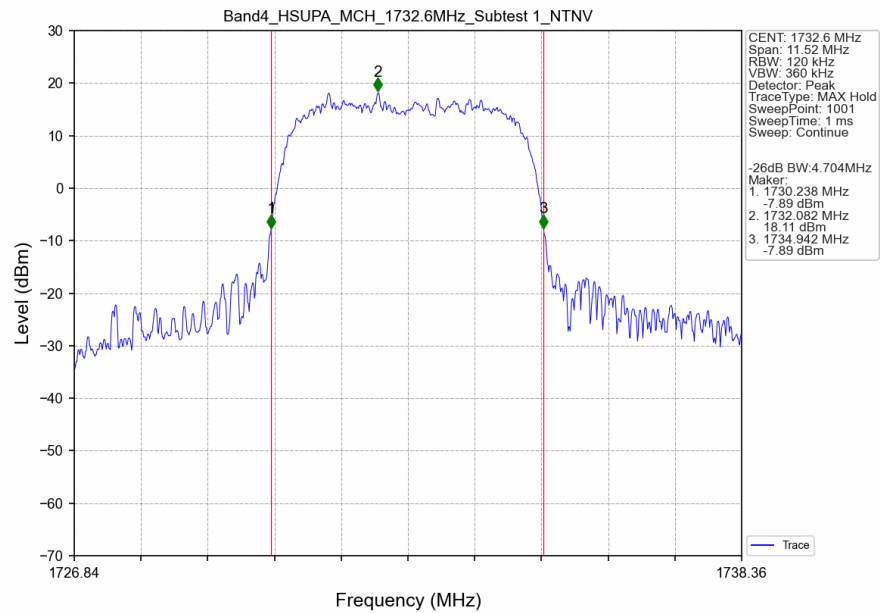
BandIV HSDPA HCH 1752.6MHz Subtest 1 NTNV



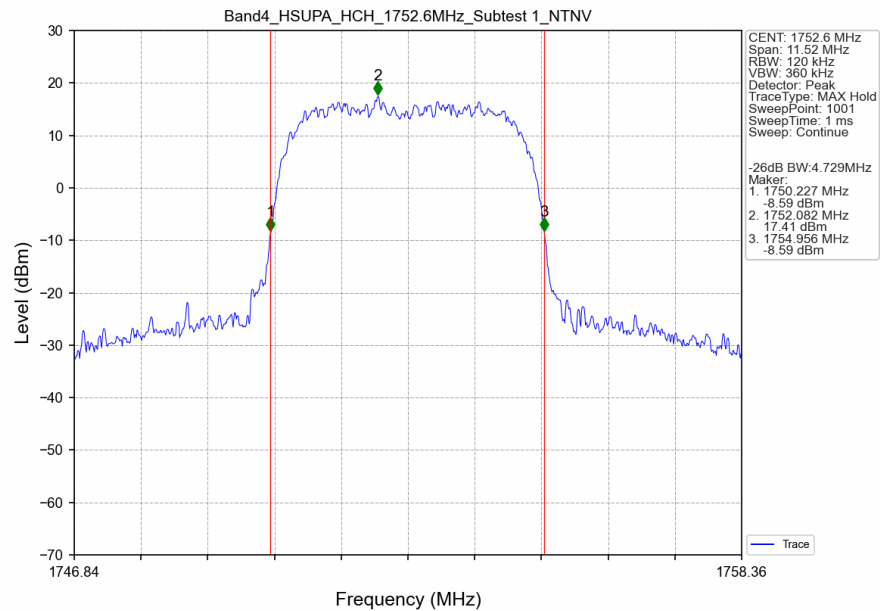
BandIV HSUPA LCH 1712.4MHz Subtest 1 NTNV



BandIV HSUPA MCH 1732.6MHz Subtest 1 NTNV



BandIV HSUPA HCH 1752.6MHz Subtest 1 NTV



4. Peak-Average Ratio

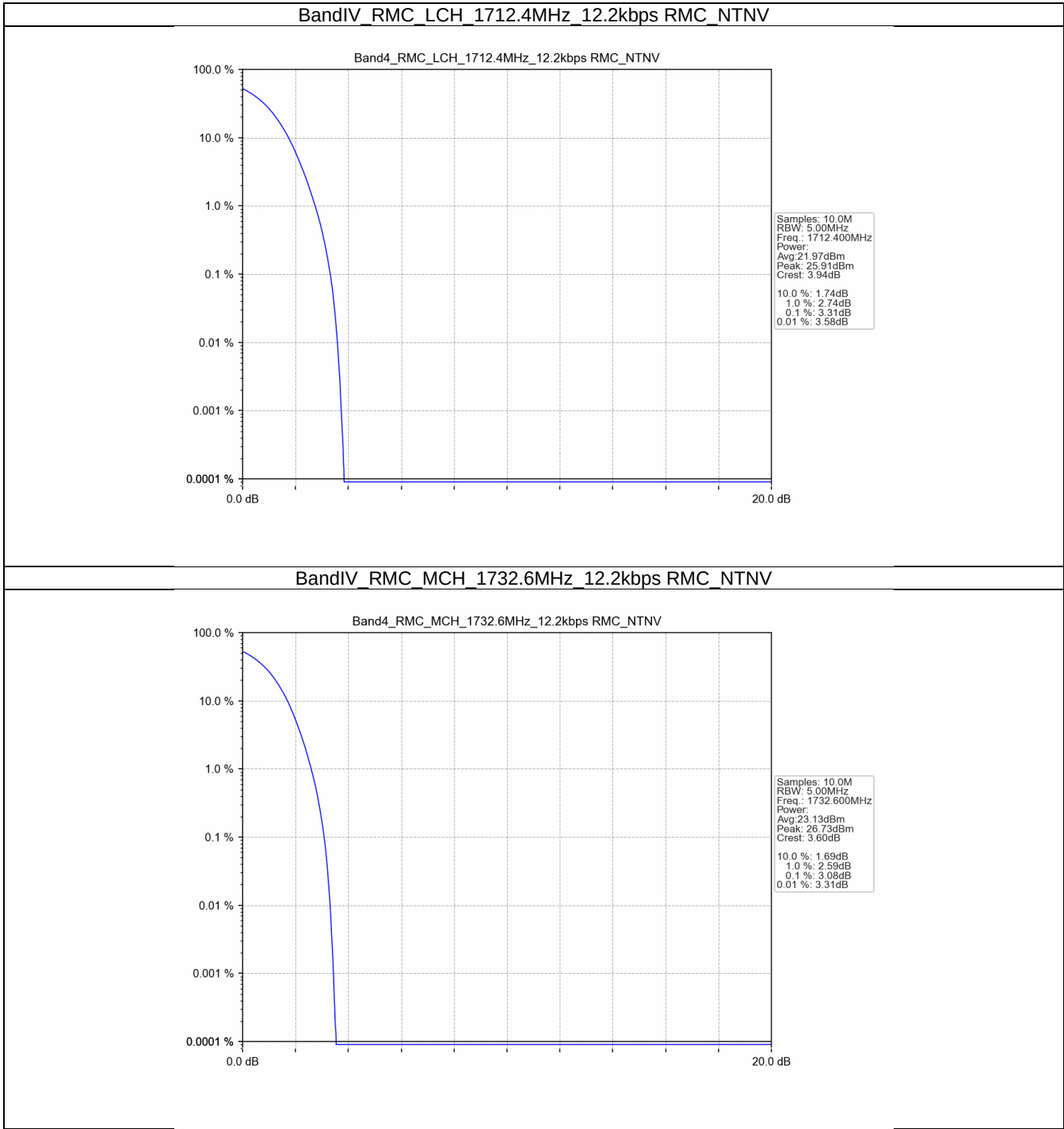
4.1 Test Result

4.1.1 Band IV

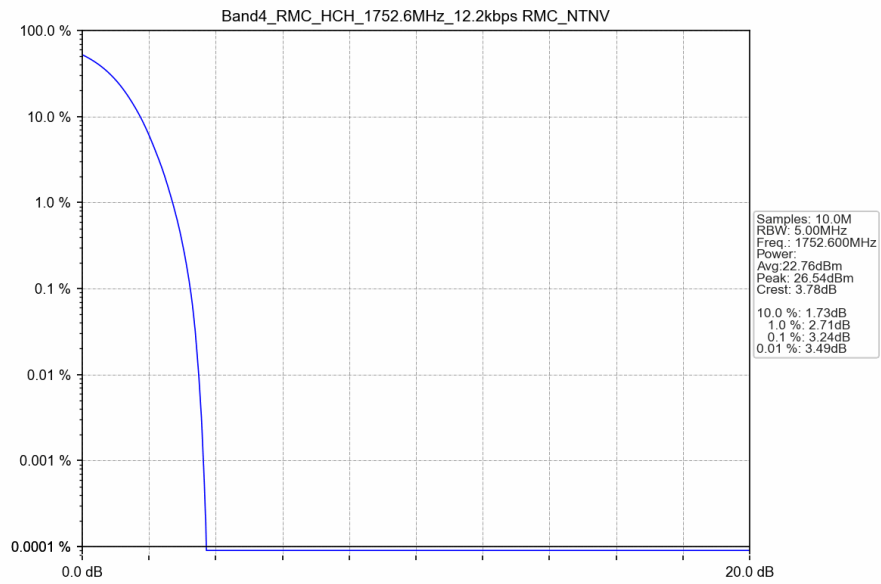
Band: IV						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	3.31	<=13	Pass
			1732.6	3.08	<=13	Pass
			1752.6	3.24	<=13	Pass
	HSDPA	Subtest 1	1712.4	5.80	<=13	Pass
			1732.6	5.76	<=13	Pass
			1752.6	5.84	<=13	Pass
	HSUPA	Subtest 1	1712.4	7.19	<=13	Pass
			1732.6	6.88	<=13	Pass
			1752.6	7.10	<=13	Pass

4.2 Test Graph

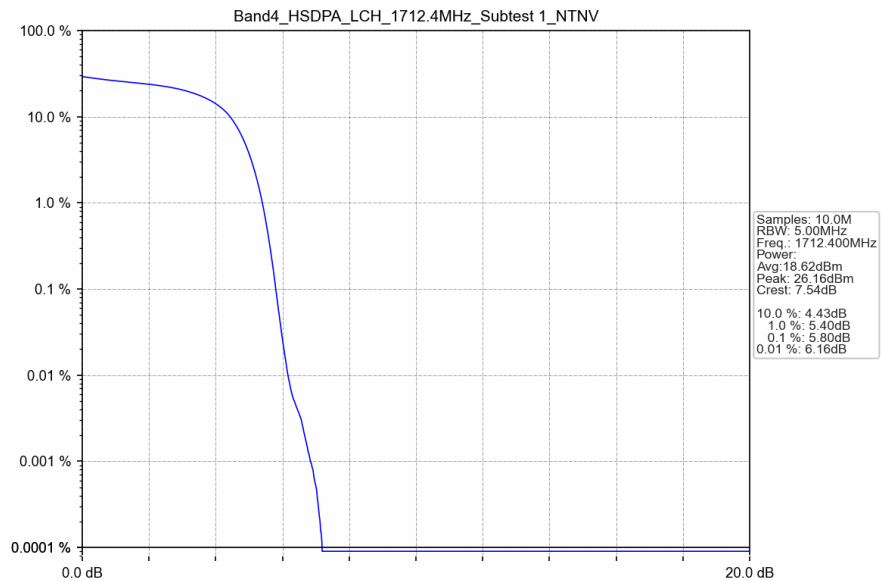
4.2.1 Band IV



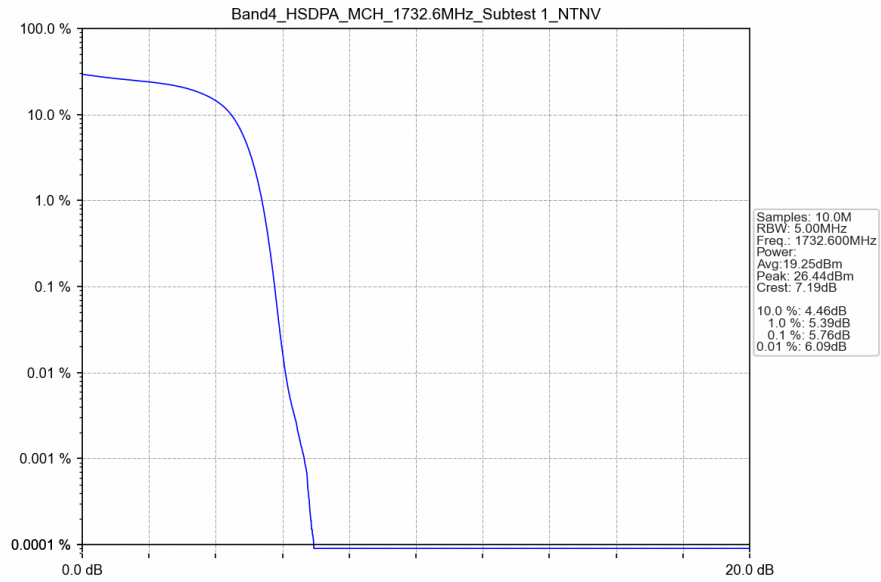
BandIV_RMC_HCH_1752.6MHz_12.2kbps_RMC_NTNV



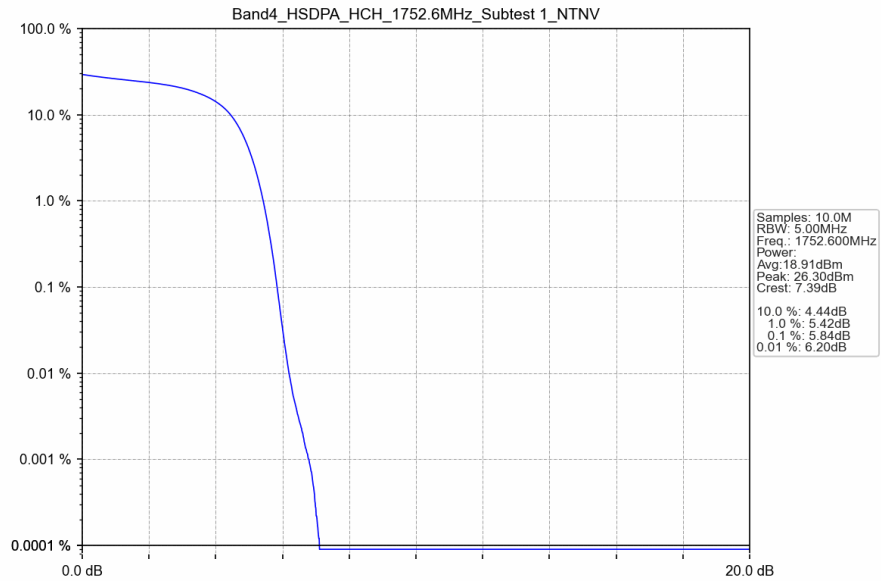
BandIV_HSDPA_LCH_1712.4MHz_Subtest 1_NTNV



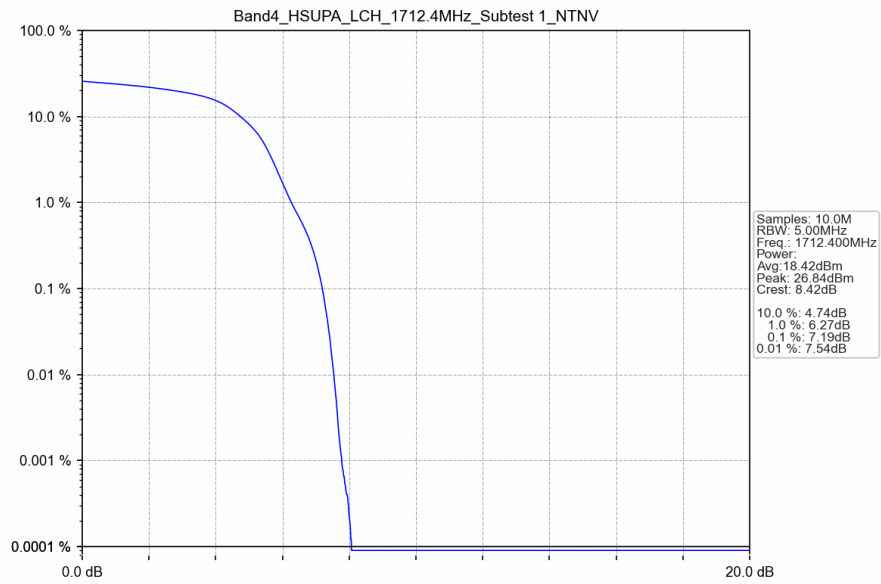
BandIV HSDPA MCH 1732.6MHz Subtest 1_NTNV



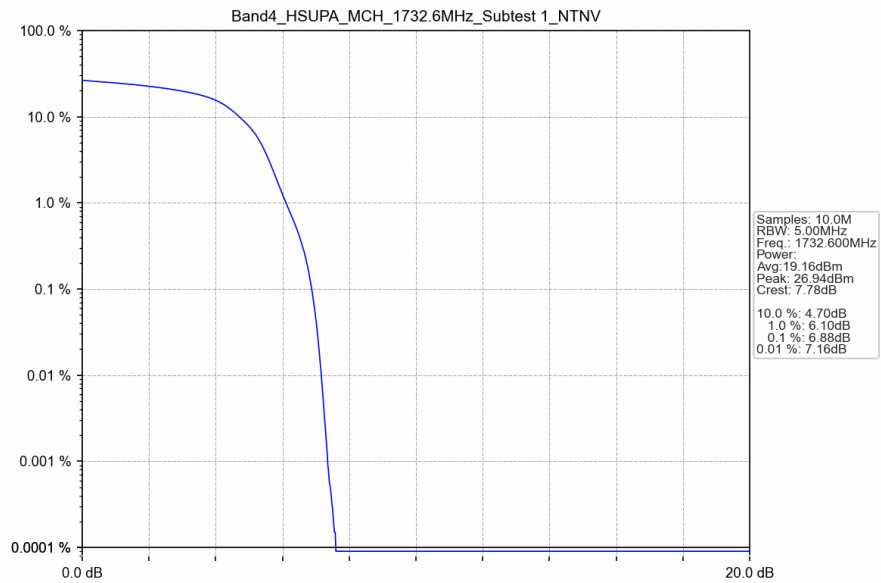
BandIV HSDPA HCH 1752.6MHz Subtest 1_NTNV



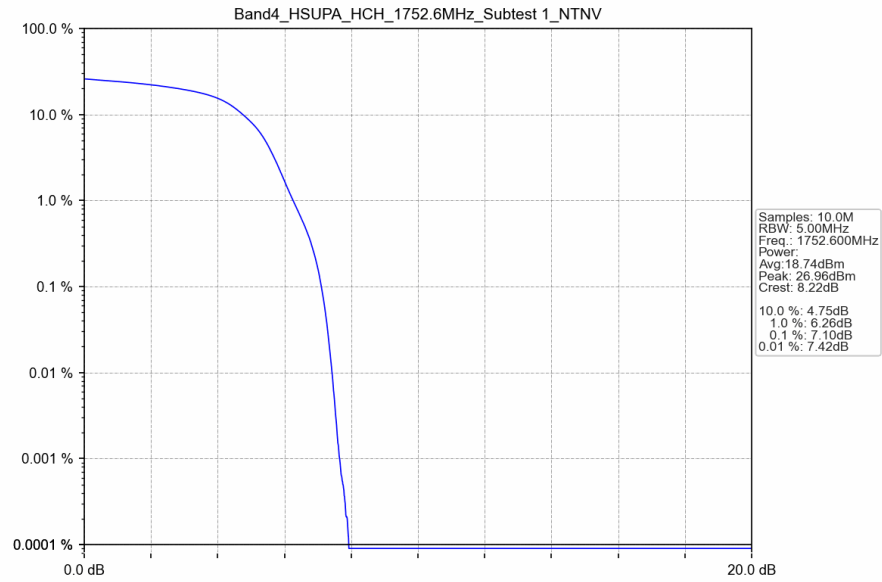
BandIV HSUPA LCH 1712.4MHz Subtest 1 NTNV



BandIV HSUPA MCH 1732.6MHz Subtest 1 NTNV



BandIV HSUPA HCH 1752.6MHz Subtest 1 NTN



5. Spurious Emission

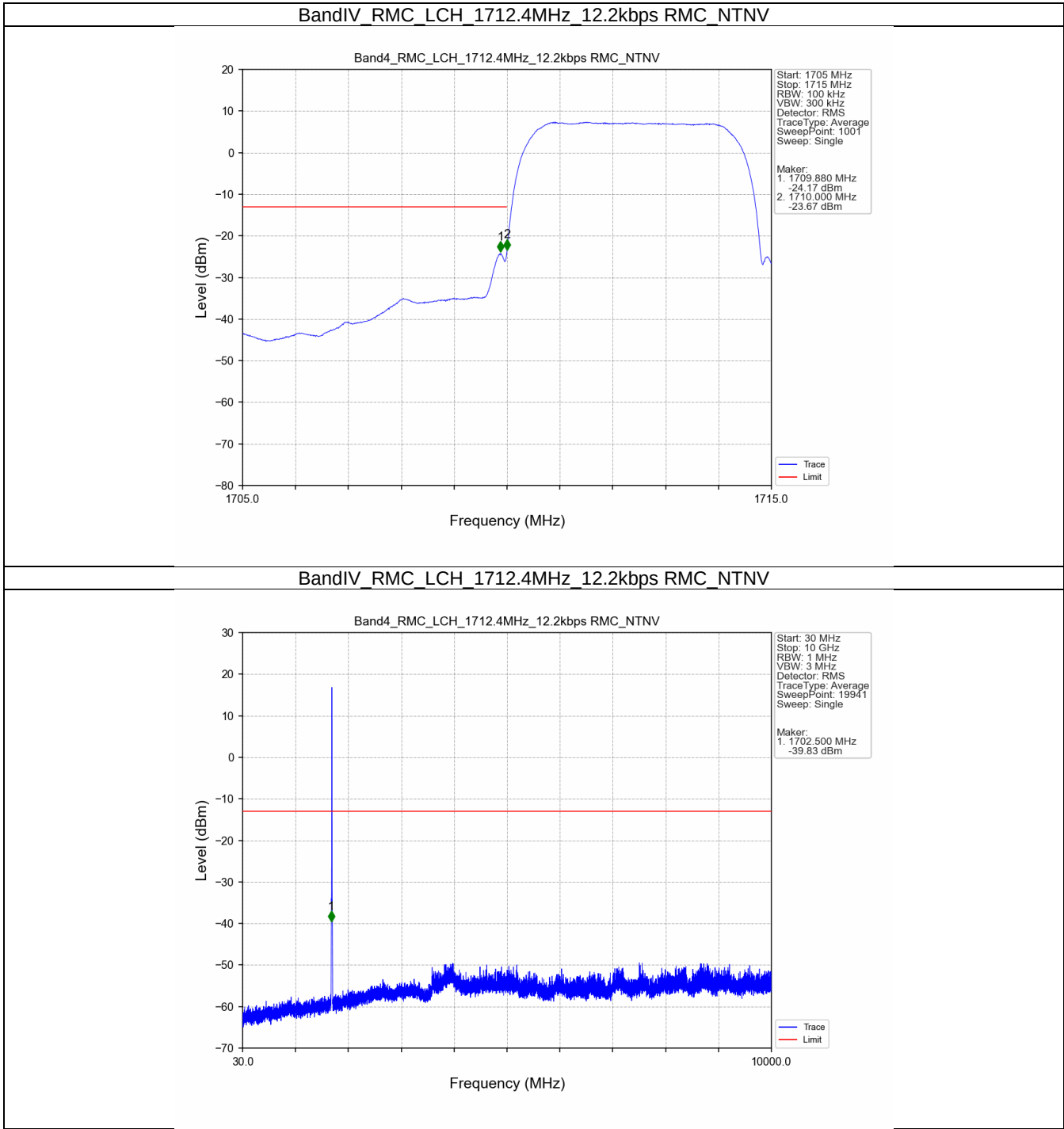
5.1 Test Result

5.1.1 Band IV

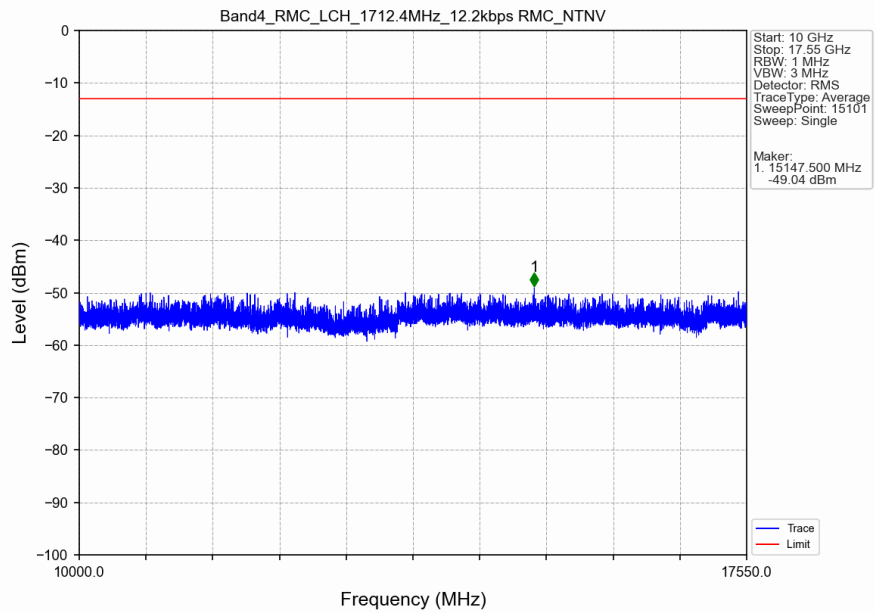
Band: IV						
ENV	Mode		Frequency (MHz)	Spurious Emission		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	Refer To Test Graph	Pass	
			1732.6	Refer To Test Graph	Pass	
			1752.6	Refer To Test Graph	Pass	
	HSDPA	Subtest 1	1712.4	Refer To Test Graph	Pass	
			1732.6	Refer To Test Graph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

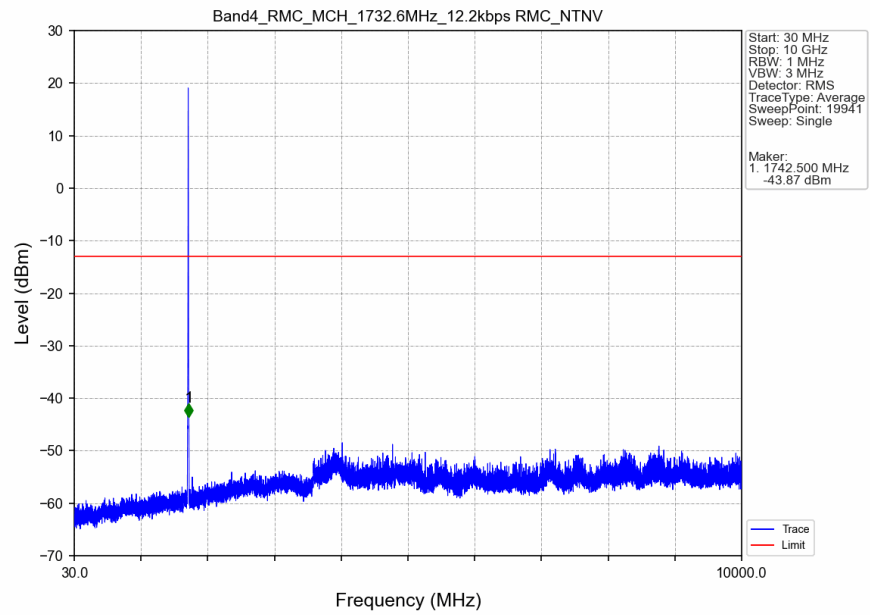
5.2.1 Band IV



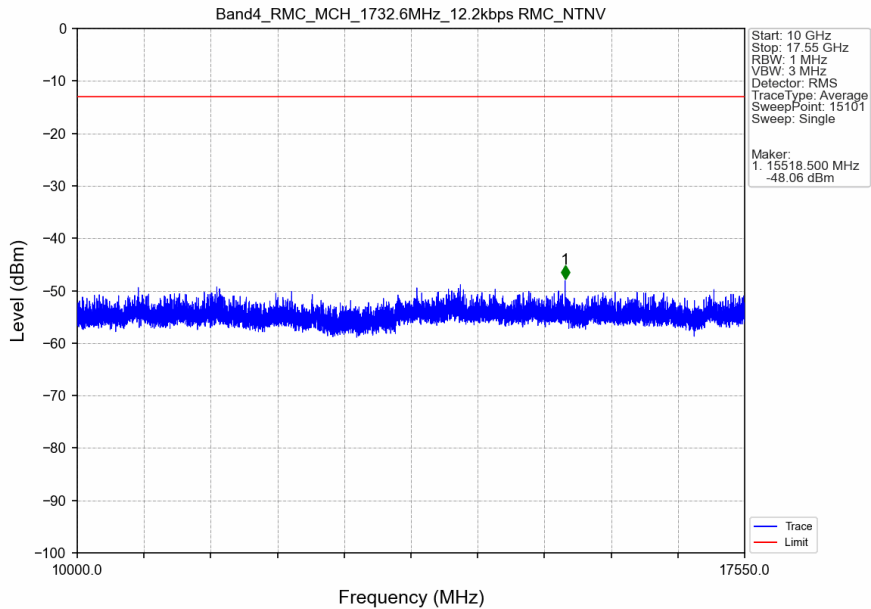
BandIV_RMC_LCH_1712.4MHz_12.2kbps_RMC_NTNV



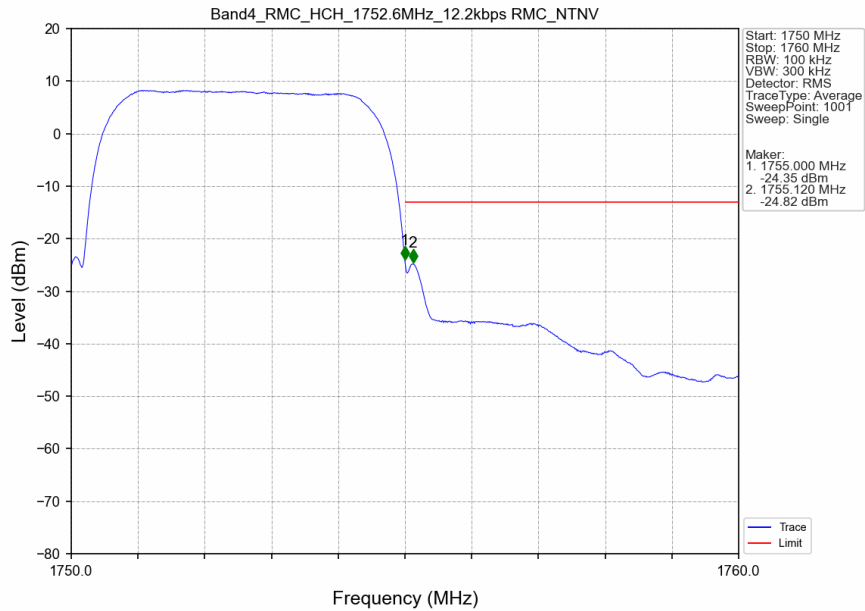
BandIV_RMC_MCH_1732.6MHz_12.2kbps_RMC_NTNV



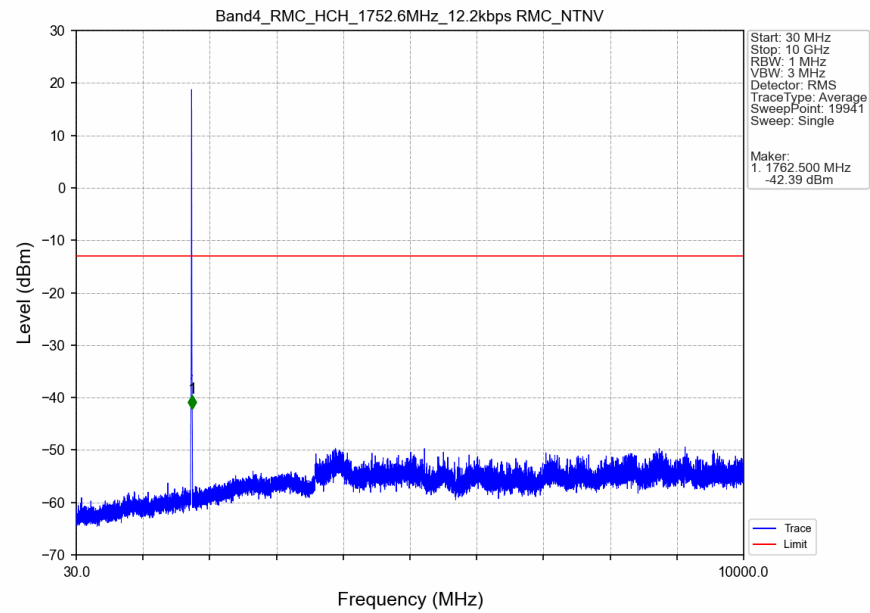
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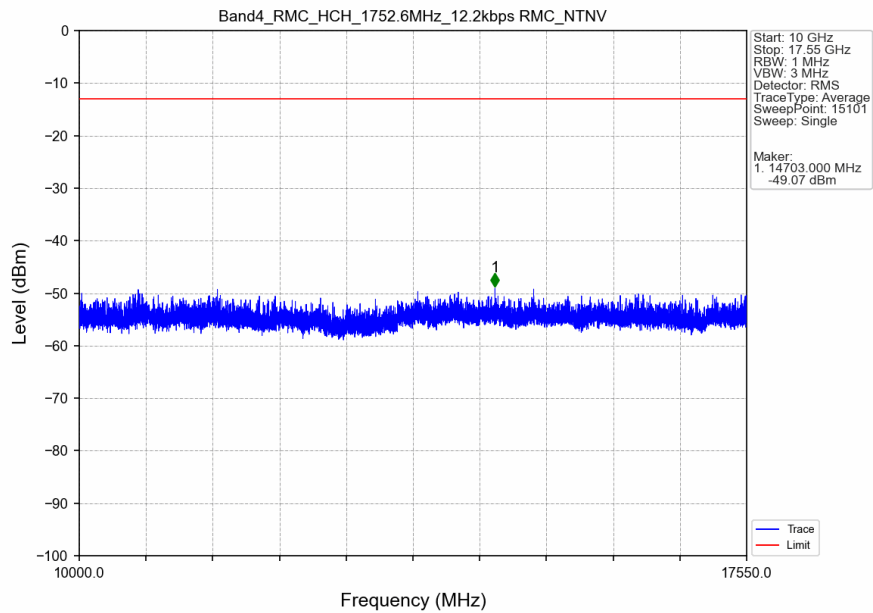
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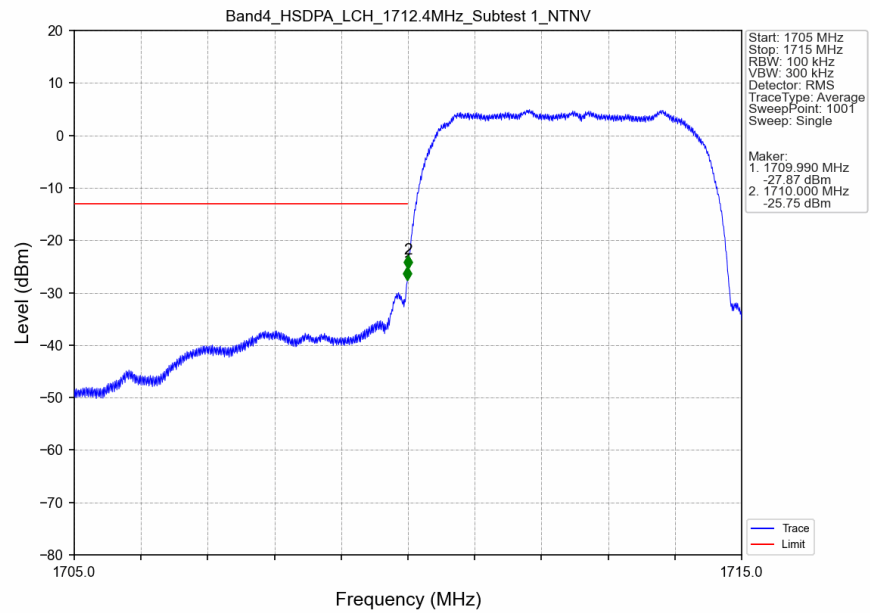
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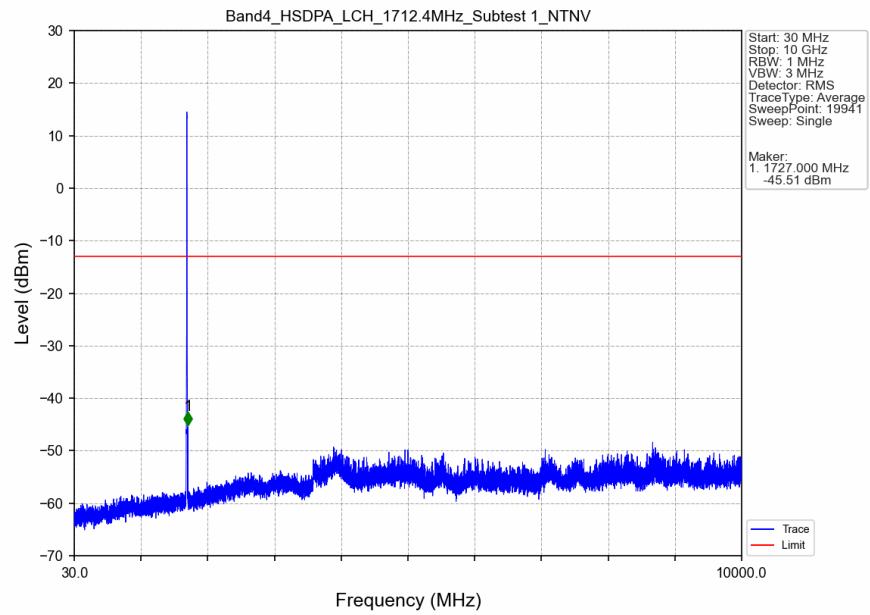
BandIV_RMC_HCH_1752.6MHz_12.2kbps_RMC_NTNV



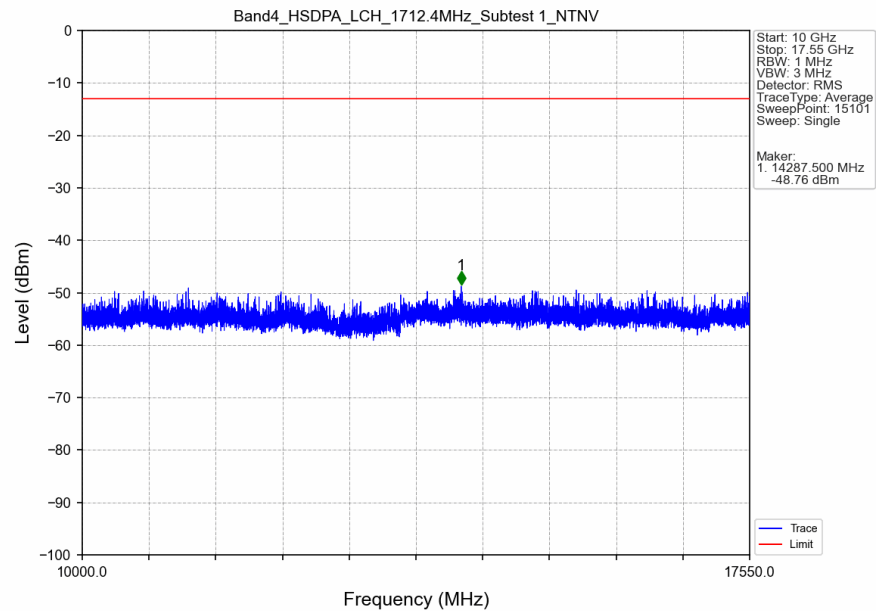
BandIV HSDPA LCH 1712.4MHz Subtest 1_NTNV



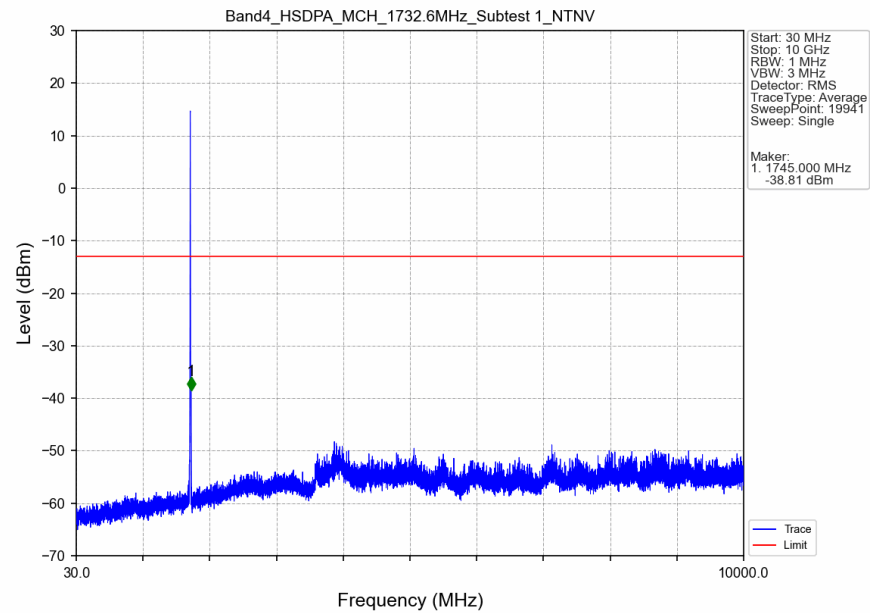
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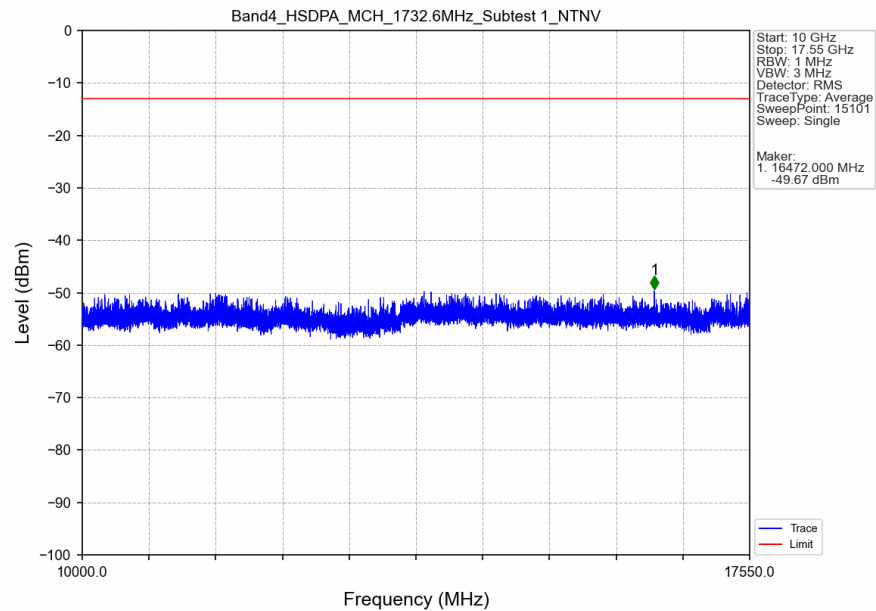
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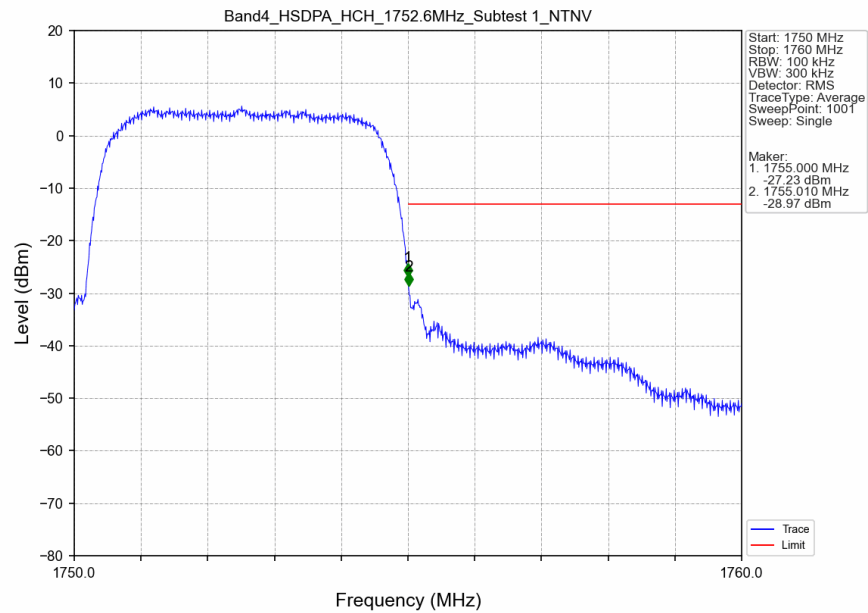
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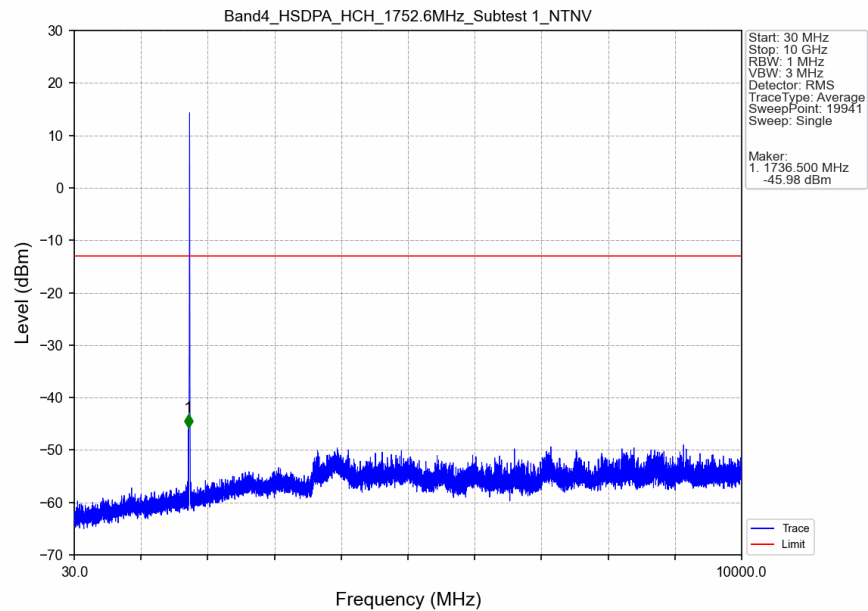
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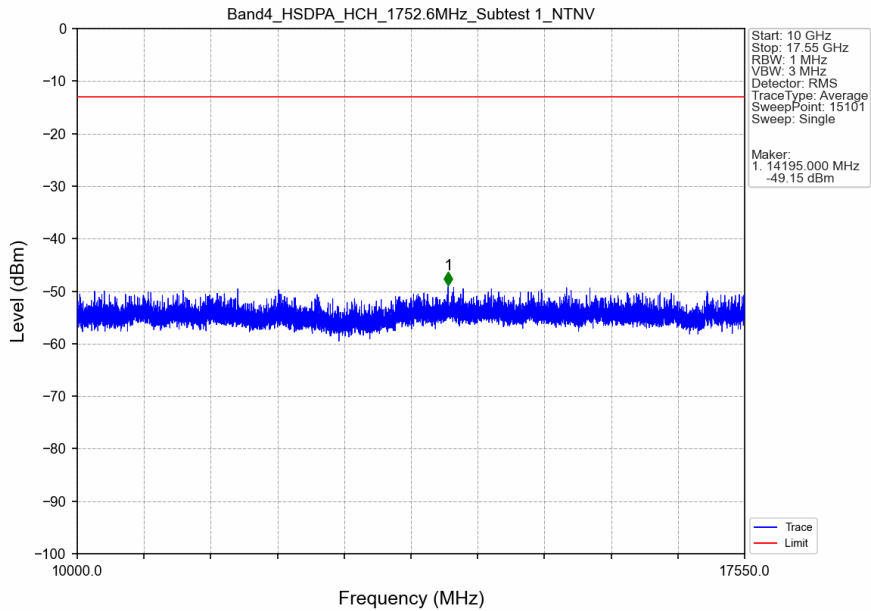
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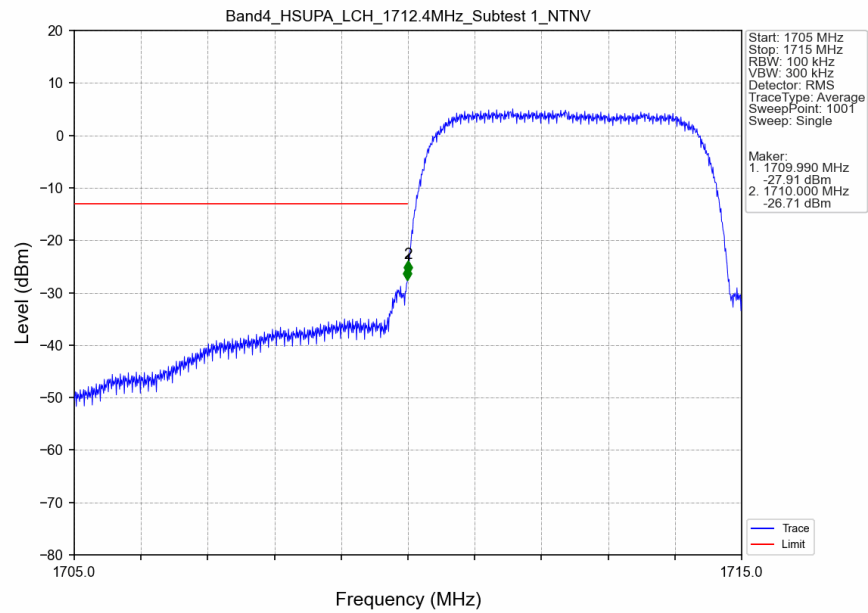
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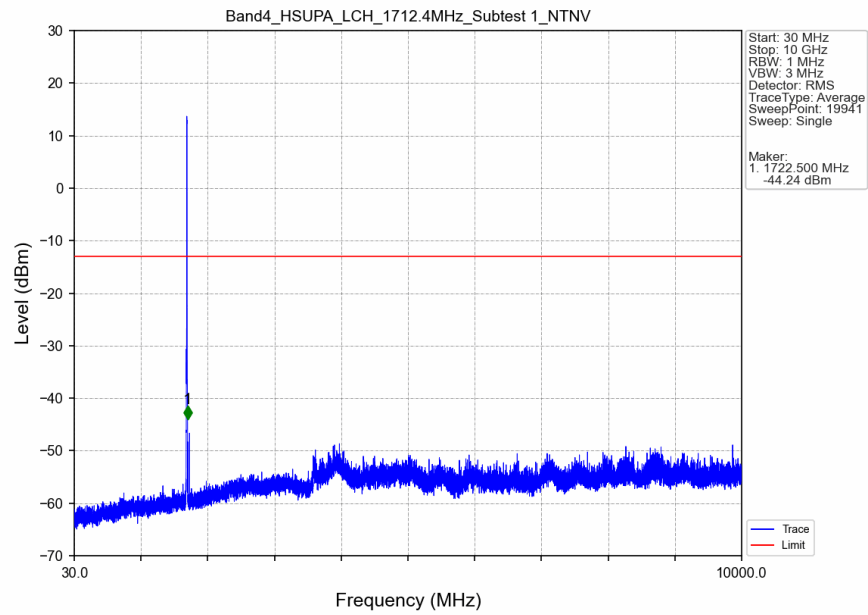
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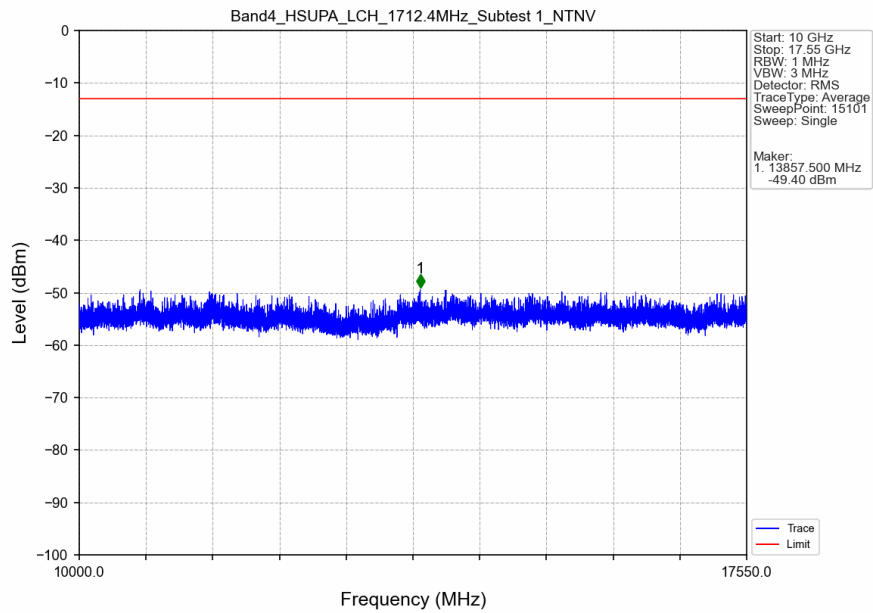
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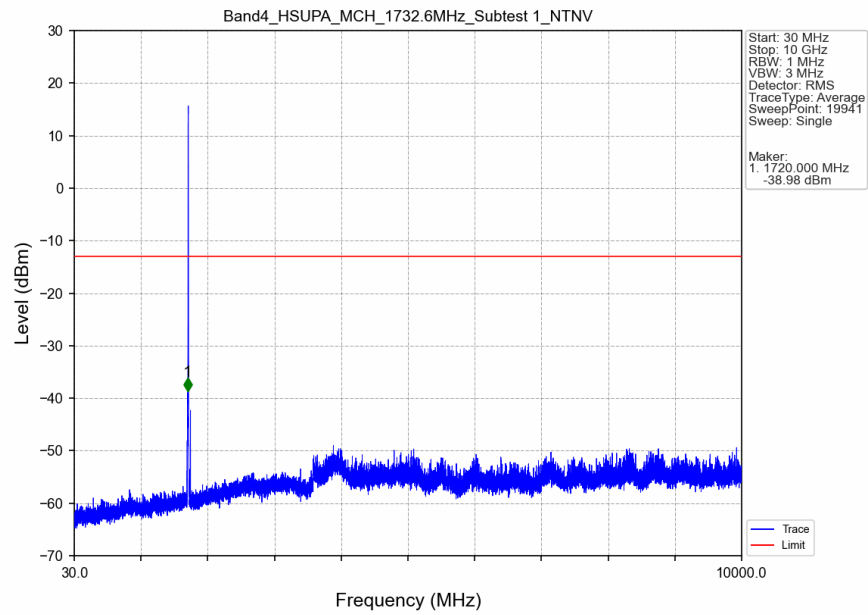
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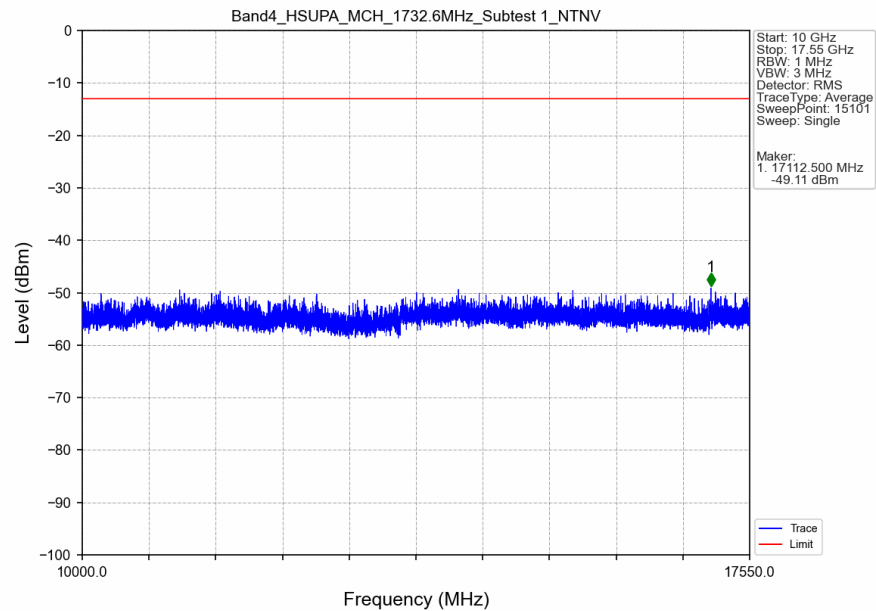
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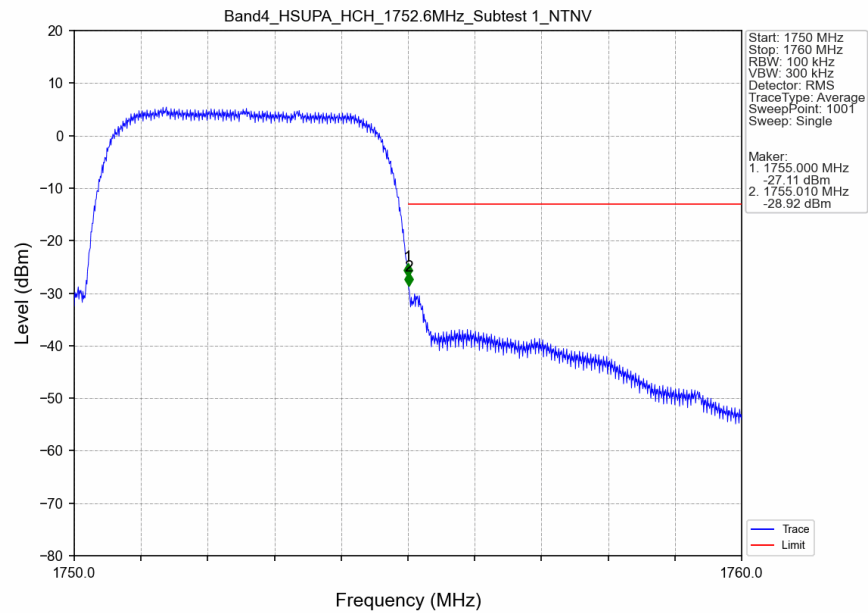
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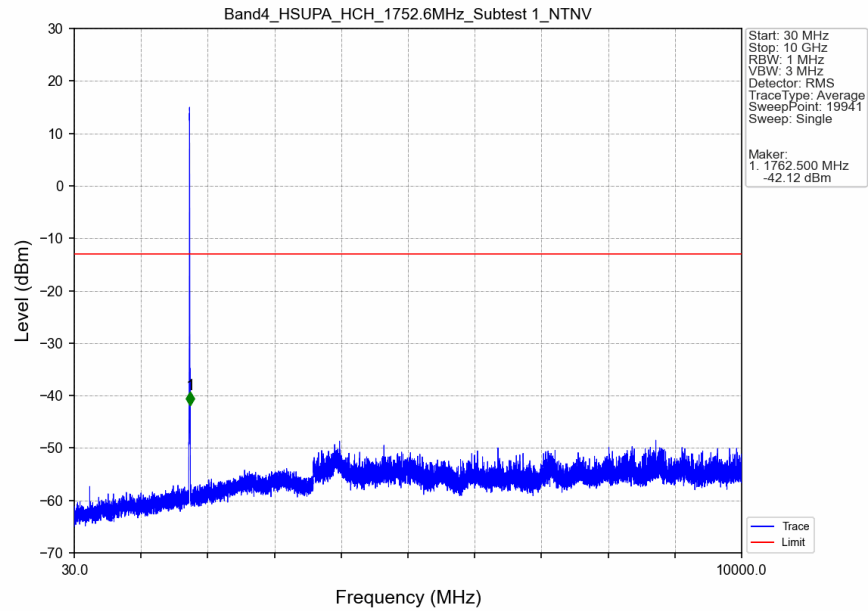
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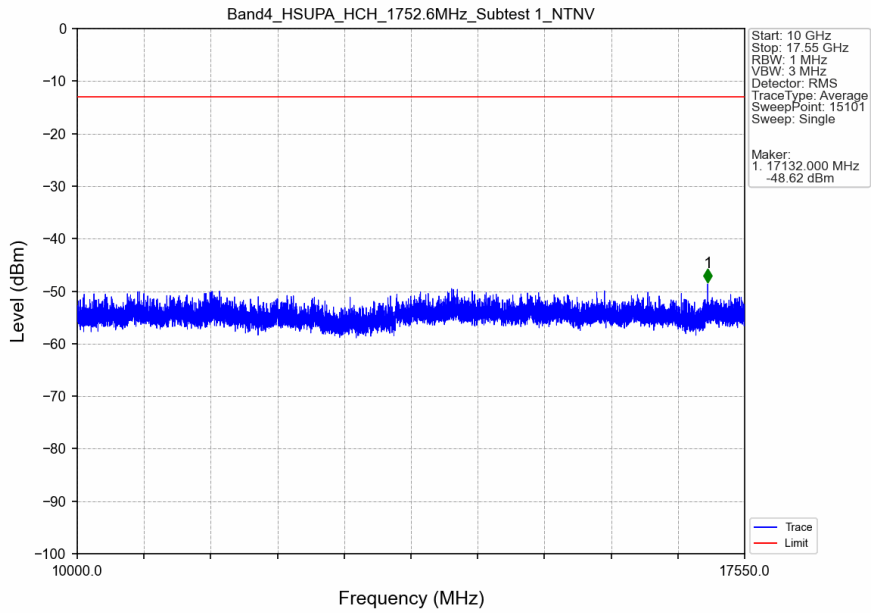
BandIV HSUPA HCH 1752.6MHz Subtest 1 NTNV



BandIV HSUPA HCH 1752.6MHz Subtest 1_NTNV



BandIV HSUPA HCH 1752.6MHz Subtest 1_NTNV



6. Field Strength of Spurious Radiation

WCDMA Band IV-Low channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3424.8	-66.34	-13	-53.34	-70.96	3.36	7.98	Horizontal	Pass
5137.2	-62.5	-13	-49.5	-68.12	4.61	10.23	Horizontal	Pass
6849.6	-61.53	-13	-48.53	-67.57	4.9	10.94	Horizontal	Pass
3424.8	-66.84	-13	-53.84	-71.46	3.36	7.98	Vertical	Pass
5137.2	-63.14	-13	-50.14	-68.76	4.61	10.23	Vertical	Pass
6849.6	-61.24	-13	-48.24	-67.28	4.9	10.94	Vertical	Pass

WCDMA Band IV-Middle channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3465.2	-66.83	-13	-53.83	-71.53	3.38	8.08	Horizontal	Pass
5197.8	-62.96	-13	-49.96	-68.59	4.63	10.26	Horizontal	Pass
6930.4	-60.87	-13	-47.87	-67.0	4.91	11.04	Horizontal	Pass
3465.2	-66.09	-13	-53.09	-70.79	3.38	8.08	Vertical	Pass
5197.8	-62.78	-13	-49.78	-68.41	4.63	10.26	Vertical	Pass
6930.4	-60.95	-13	-47.95	-67.08	4.91	11.04	Vertical	Pass

WCDMA Band IV-High channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3505.2	-66.86	-13	-53.86	-71.64	3.4	8.18	Horizontal	Pass
5257.8	-61.18	-13	-48.18	-66.83	4.65	10.3	Horizontal	Pass
7010.4	-60.99	-13	-47.99	-67.21	4.92	11.14	Horizontal	Pass
3505.2	-66.54	-13	-53.54	-71.32	3.4	8.18	Vertical	Pass
5257.8	-63.21	-13	-50.21	-68.86	4.65	10.3	Vertical	Pass
7010.4	-61.05	-13	-48.05	-67.27	4.92	11.14	Vertical	Pass