

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	23.39	2.00	25.39	<=30	Pass	
			1732.6	23.72	2.00	25.72	<=30	Pass	
			1752.6	23.74	2.00	25.74	<=30	Pass	
	HSDPA	Subtest 1	1712.4	21.77	2.00	23.77	<=30	Pass	
		Subtest 2	1712.4	21.83	2.00	23.83	<=30	Pass	
		Subtest 3	1712.4	21.87	2.00	23.87	<=30	Pass	
		Subtest 4	1712.4	21.95	2.00	23.95	<=30	Pass	
		Subtest 1	1732.6	22.44	2.00	24.44	<=30	Pass	
		Subtest 2	1732.6	22.50	2.00	24.50	<=30	Pass	
		Subtest 3	1732.6	22.41	2.00	24.41	<=30	Pass	
		Subtest 4	1732.6	22.41	2.00	24.41	<=30	Pass	
		Subtest 1	1752.6	22.34	2.00	24.34	<=30	Pass	
		Subtest 2	1752.6	22.33	2.00	24.33	<=30	Pass	
		Subtest 3	1752.6	22.37	2.00	24.37	<=30	Pass	
		Subtest 4	1752.6	22.34	2.00	24.34	<=30	Pass	
		HSUPA	Subtest 1	1712.4	20.10	2.00	22.10	<=30	Pass
			Subtest 2	1712.4	20.23	2.00	22.23	<=30	Pass
			Subtest 3	1712.4	20.40	2.00	22.40	<=30	Pass
			Subtest 4	1712.4	20.19	2.00	22.19	<=30	Pass
			Subtest 5	1712.4	20.20	2.00	22.20	<=30	Pass
			Subtest 1	1732.6	20.28	2.00	22.28	<=30	Pass
			Subtest 2	1732.6	20.27	2.00	22.27	<=30	Pass
			Subtest 3	1732.6	20.40	2.00	22.40	<=30	Pass
	Subtest 4		1732.6	20.32	2.00	22.32	<=30	Pass	
	Subtest 5		1732.6	20.26	2.00	22.26	<=30	Pass	
	Subtest 1		1752.6	20.71	2.00	22.71	<=30	Pass	
	Subtest 2		1752.6	20.37	2.00	22.37	<=30	Pass	
	Subtest 3		1752.6	20.81	2.00	22.81	<=30	Pass	
	Subtest 4		1752.6	20.63	2.00	22.63	<=30	Pass	
	Subtest 5		1752.6	20.81	2.00	22.81	<=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	3.55	5.936	0.0035	/	Pass
			4	6.695	0.0039	/	Pass
			4.4	6.941	0.0041	/	Pass
		-30	4	6.795	0.0040	/	Pass
		-20	4	6.193	0.0036	/	Pass
		-10	4	6.022	0.0035	/	Pass

		0	4	5.929	0.0035	/	Pass
		10	4	6.315	0.0037	/	Pass
		30	4	6.497	0.0038	/	Pass
		40	4	6.297	0.0037	/	Pass
		50	4	6.129	0.0036	/	Pass
	1732.6	20	3.55	-0.662	-0.0004	/	Pass
			4	-0.956	-0.0006	/	Pass
			4.4	-0.570	-0.0003	/	Pass
		-30	4	0.336	0.0002	/	Pass
		-20	4	-0.052	0.0000	/	Pass
		-10	4	-0.320	-0.0002	/	Pass
		0	4	0.070	0.0000	/	Pass
		10	4	0.079	0.0000	/	Pass
		30	4	-0.144	-0.0001	/	Pass
		40	4	-0.064	0.0000	/	Pass
		50	4	0.269	0.0002	/	Pass
		1752.6	20	3.55	-5.233	-0.0030	/
	4			-5.099	-0.0029	/	Pass
	4.4			-5.180	-0.0030	/	Pass
	-30		4	-5.079	-0.0029	/	Pass
	-20		4	-4.921	-0.0028	/	Pass
	-10		4	-6.056	-0.0035	/	Pass
	0		4	-5.460	-0.0031	/	Pass
	10		4	-4.943	-0.0028	/	Pass
	30		4	-4.801	-0.0027	/	Pass
	40		4	-5.352	-0.0031	/	Pass
	50		4	-5.158	-0.0029	/	Pass

HSDPA	1712.4	20	3.55	2.247	0.0013	/	Pass
			4	2.483	0.0015	/	Pass
			4.4	3.323	0.0019	/	Pass
		-30	4	3.066	0.0018	/	Pass
		-20	4	3.128	0.0018	/	Pass
		-10	4	3.394	0.0020	/	Pass
		0	4	3.719	0.0022	/	Pass
		10	4	3.630	0.0021	/	Pass
		30	4	3.781	0.0022	/	Pass
		40	4	3.952	0.0023	/	Pass
		50	4	4.154	0.0024	/	Pass
		1732.6	20	3.55	2.314	0.0013	/
	4			1.569	0.0009	/	Pass
	4.4			2.467	0.0014	/	Pass
	-30		4	1.961	0.0011	/	Pass
	-20		4	2.665	0.0015	/	Pass
	-10		4	2.248	0.0013	/	Pass
	0		4	2.469	0.0014	/	Pass
	10		4	3.230	0.0019	/	Pass
	30		4	1.753	0.0010	/	Pass
	40		4	3.032	0.0017	/	Pass
	50		4	2.844	0.0016	/	Pass
	1752.6		20	3.55	-1.048	-0.0006	/
		4		-1.281	-0.0007	/	Pass
		4.4		-1.128	-0.0006	/	Pass
		-30	4	-1.457	-0.0008	/	Pass
		-20	4	-0.928	-0.0005	/	Pass
		-10	4	-0.955	-0.0005	/	Pass
		0	4	-1.347	-0.0008	/	Pass
		10	4	-1.655	-0.0009	/	Pass
		30	4	-1.303	-0.0007	/	Pass
		40	4	-1.320	-0.0008	/	Pass

		50	4	-1.577	-0.0009	/	Pass
HSUPA	1712.4	20	3.55	4.073	0.0024	/	Pass
			4	2.141	0.0013	/	Pass
			4.4	2.918	0.0017	/	Pass
		-30	4	3.769	0.0022	/	Pass
		-20	4	3.338	0.0019	/	Pass
		-10	4	4.565	0.0027	/	Pass
		0	4	3.815	0.0022	/	Pass
		10	4	4.637	0.0027	/	Pass
		30	4	4.818	0.0028	/	Pass
		40	4	5.455	0.0032	/	Pass
		50	4	5.532	0.0032	/	Pass
	1732.6	20	3.55	0.252	0.0001	/	Pass
			4	-0.209	-0.0001	/	Pass
			4.4	0.365	0.0002	/	Pass
		-30	4	0.273	0.0002	/	Pass
		-20	4	0.126	0.0001	/	Pass
		-10	4	0.360	0.0002	/	Pass
		0	4	0.397	0.0002	/	Pass
		10	4	-0.188	-0.0001	/	Pass
		30	4	0.586	0.0003	/	Pass
		40	4	0.822	0.0005	/	Pass
		50	4	0.654	0.0004	/	Pass
	1752.6	20	3.55	-2.516	-0.0014	/	Pass
			4	-2.860	-0.0016	/	Pass
			4.4	-2.059	-0.0012	/	Pass
		-30	4	-2.769	-0.0016	/	Pass
		-20	4	-2.453	-0.0014	/	Pass
		-10	4	-2.336	-0.0013	/	Pass
		0	4	-2.136	-0.0012	/	Pass
		10	4	-2.787	-0.0016	/	Pass
		30	4	-2.823	-0.0016	/	Pass
		40	4	-2.210	-0.0013	/	Pass
		50	4	-2.640	-0.0015	/	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 Band IV_OBW

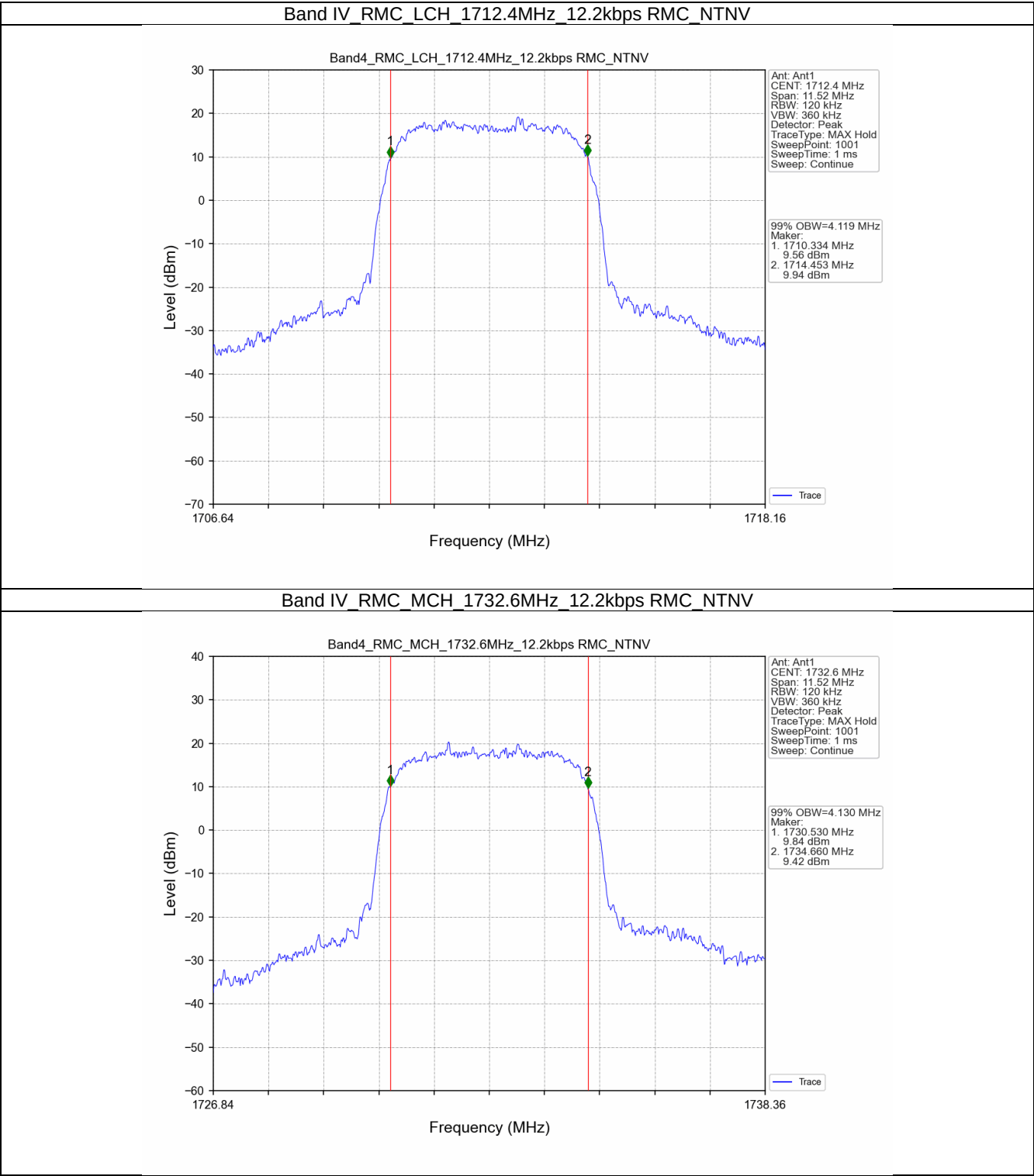
Band IV						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	4.119	/	Pass
			1732.6	4.130	/	Pass
			1752.6	4.135	/	Pass
	HSDPA	Subtest 1	1712.4	4.167	/	Pass
			1732.6	4.124	/	Pass
			1752.6	4.164	/	Pass
	HSUPA	Subtest 1	1712.4	4.137	/	Pass
			1732.6	4.124	/	Pass
			1752.6	4.135	/	Pass

3.1.2 Band IV_XDB

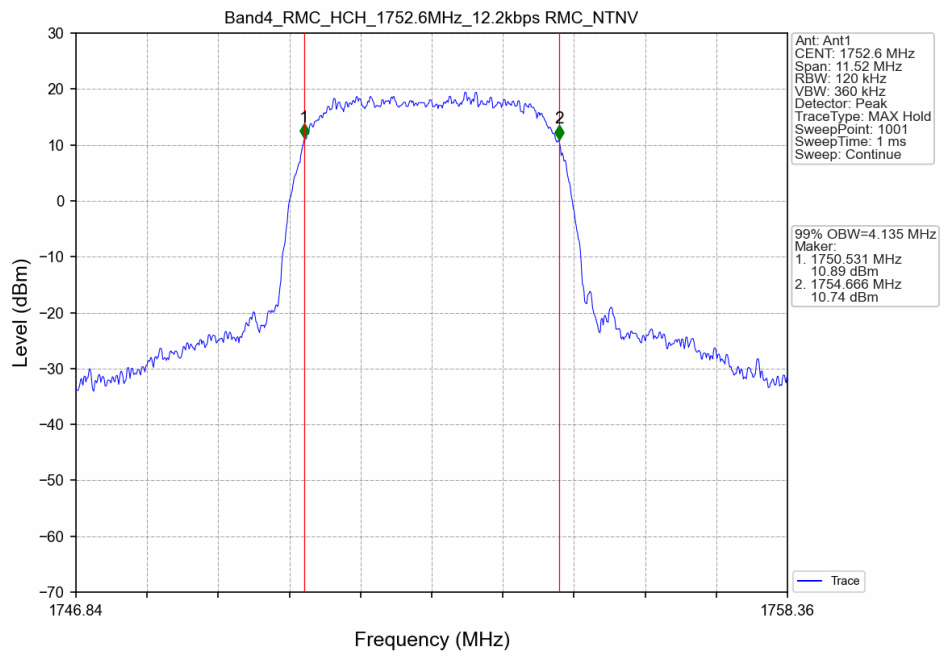
Band IV						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	4.738	/	Pass
			1732.6	4.710	/	Pass
			1752.6	4.740	/	Pass
	HSDPA	Subtest 1	1712.4	6.389	/	Pass
			1732.6	4.707	/	Pass
			1752.6	5.604	/	Pass
	HSUPA	Subtest 1	1712.4	4.704	/	Pass
			1732.6	4.735	/	Pass
			1752.6	4.705	/	Pass

3.2 Test Graph

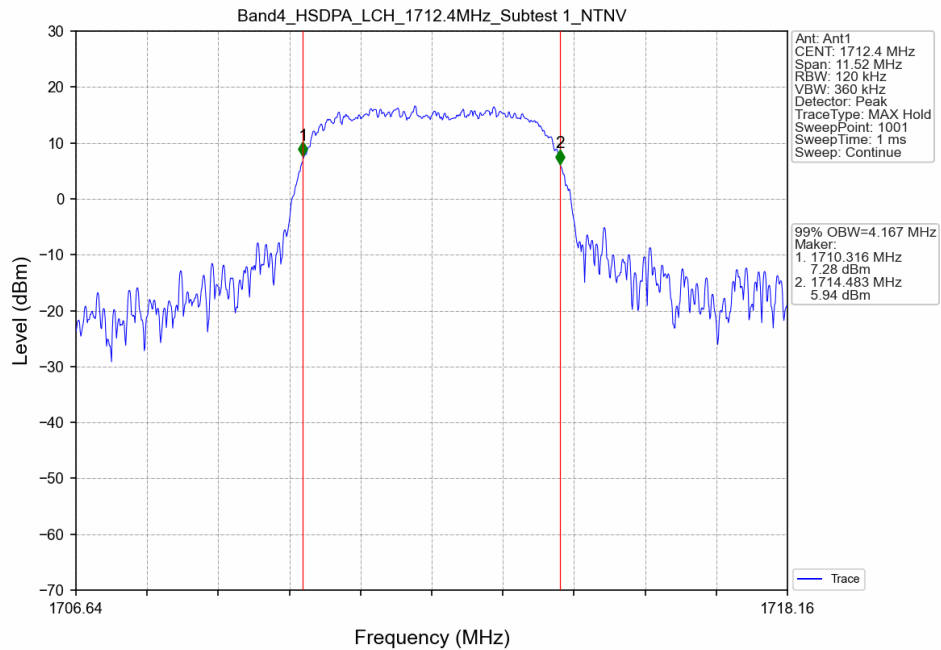
3.2.1 Band IV_OBW



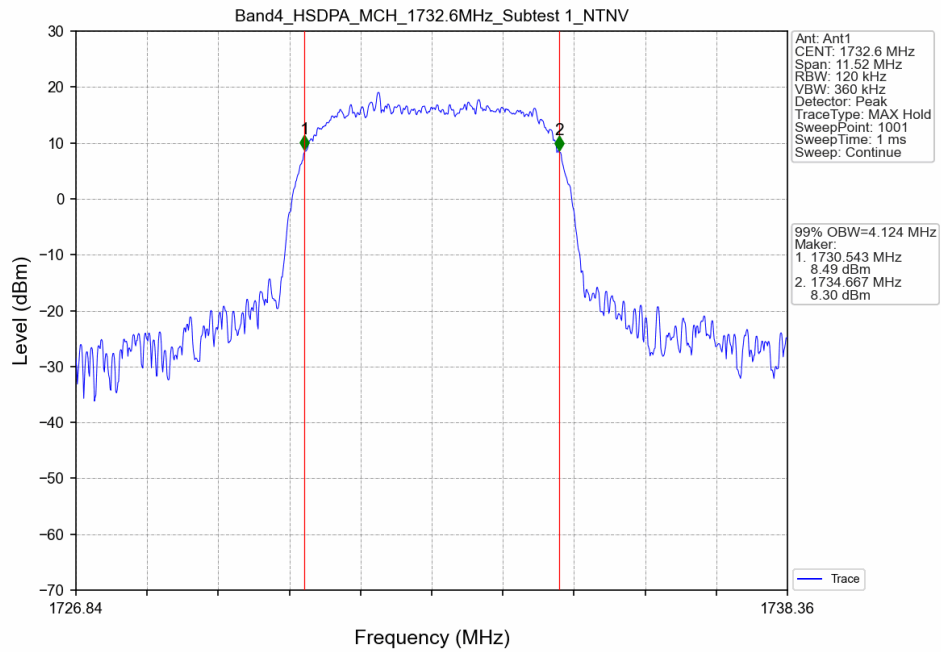
Band IV_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



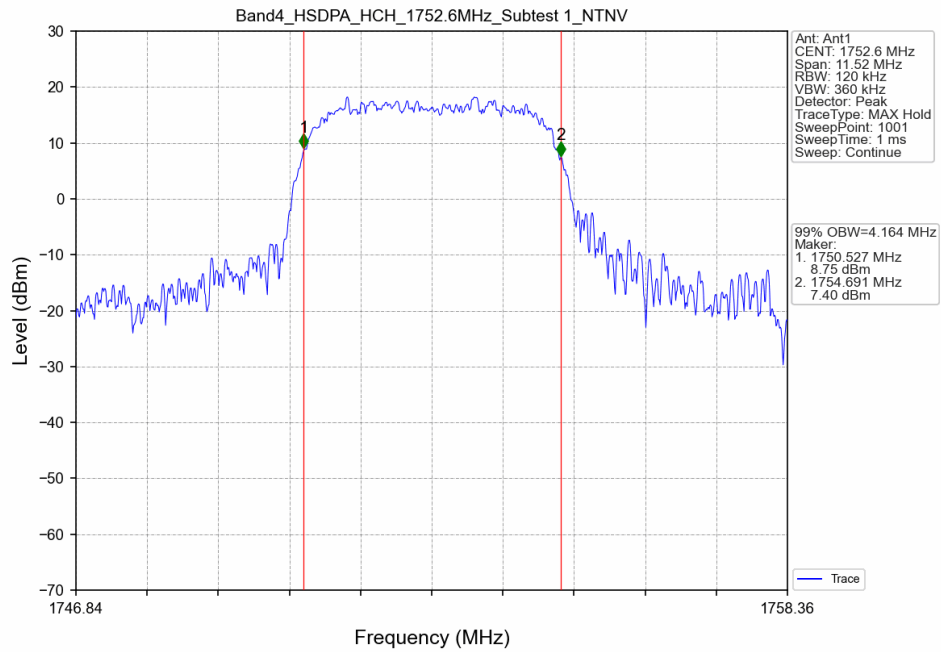
Band IV_HSDPA_LCH_1712.4MHz_Subtest 1_NTNV



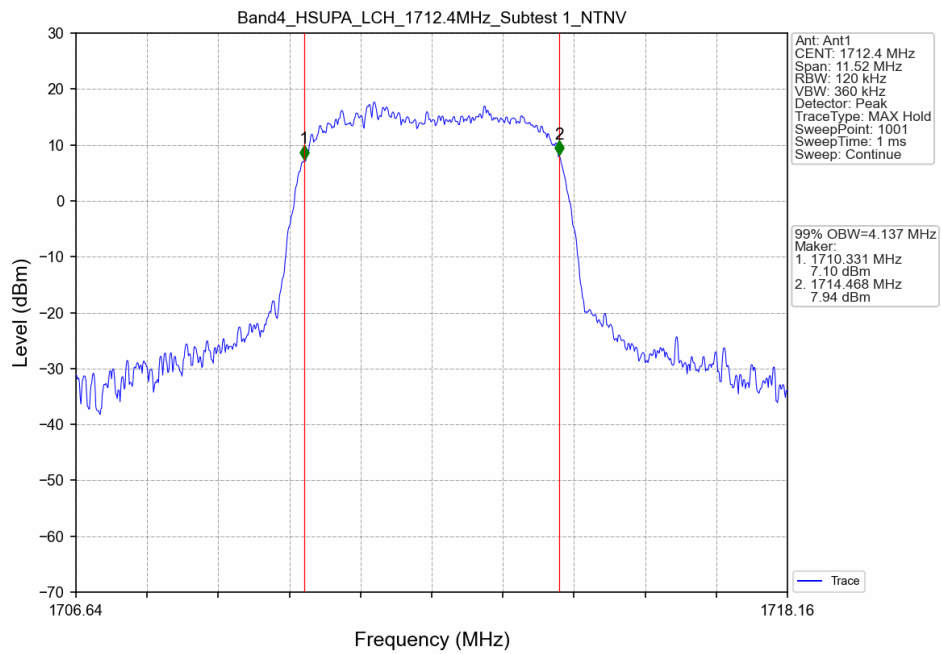
Band IV_HSDPA_MCH_1732.6MHz_Subtest 1_NTNV



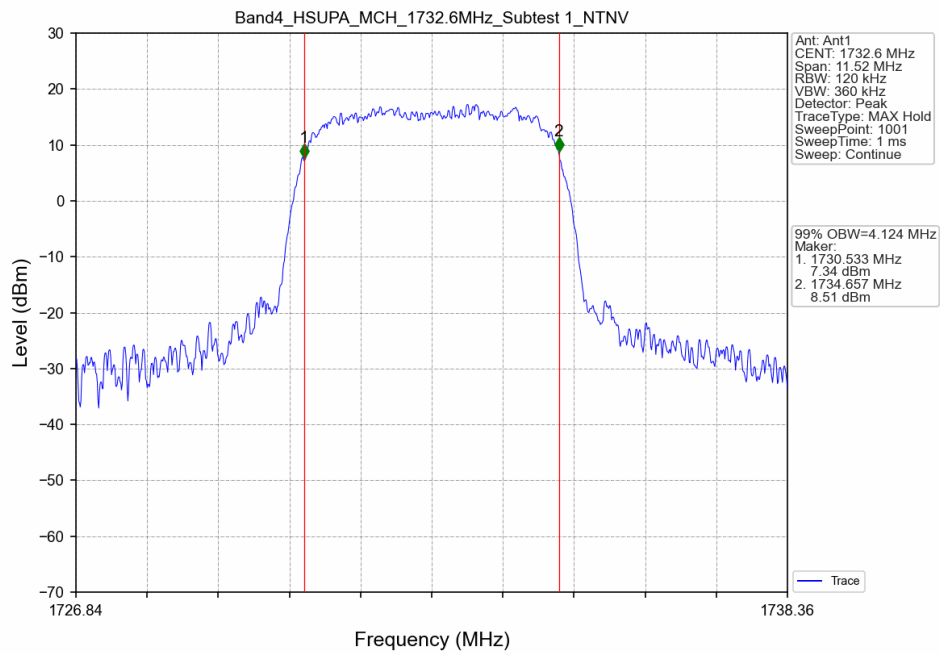
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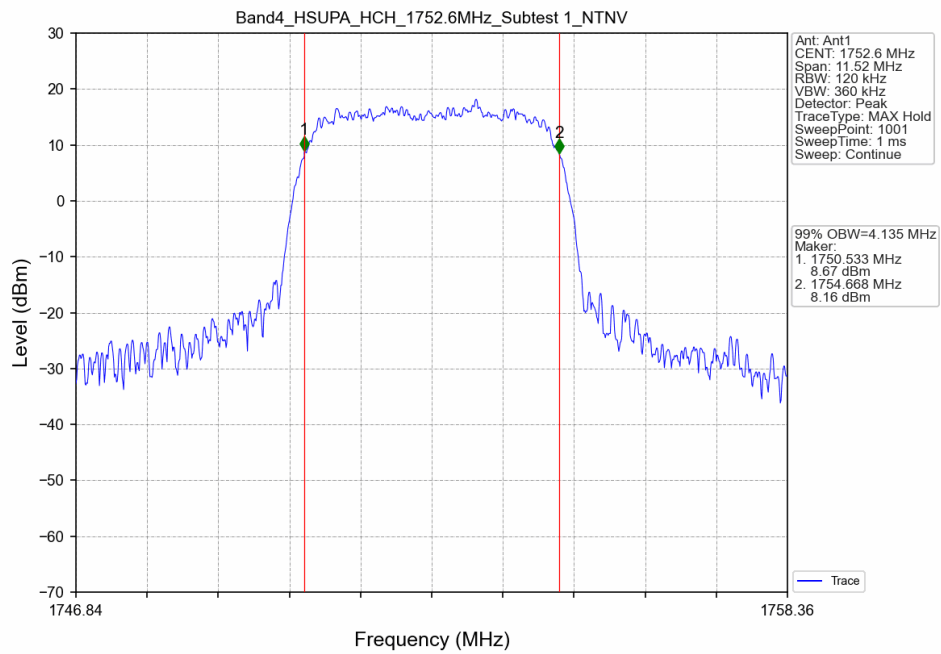
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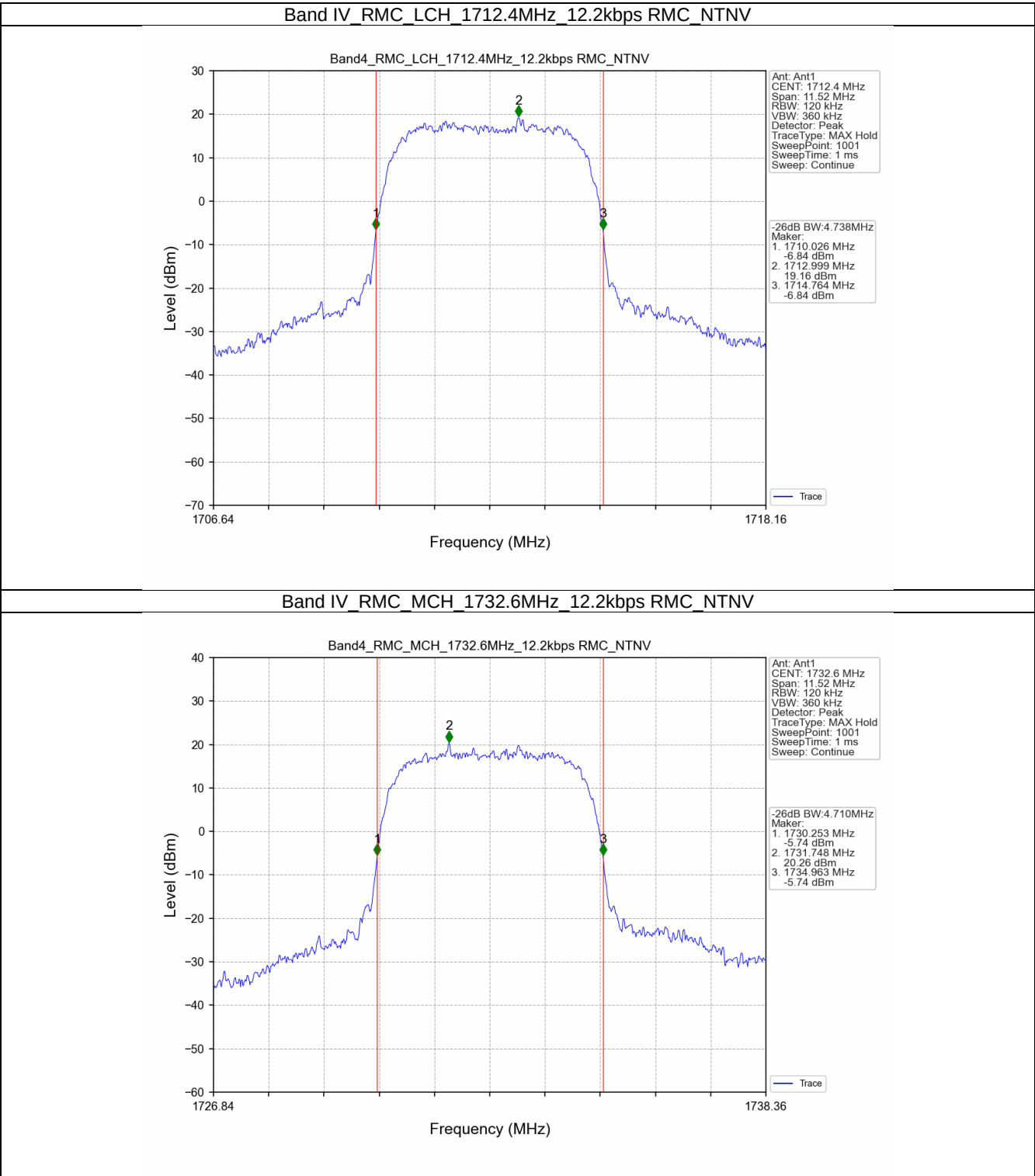
Band IV_HSUPA_MCH_1732.6MHz_Subtest 1_NTNV



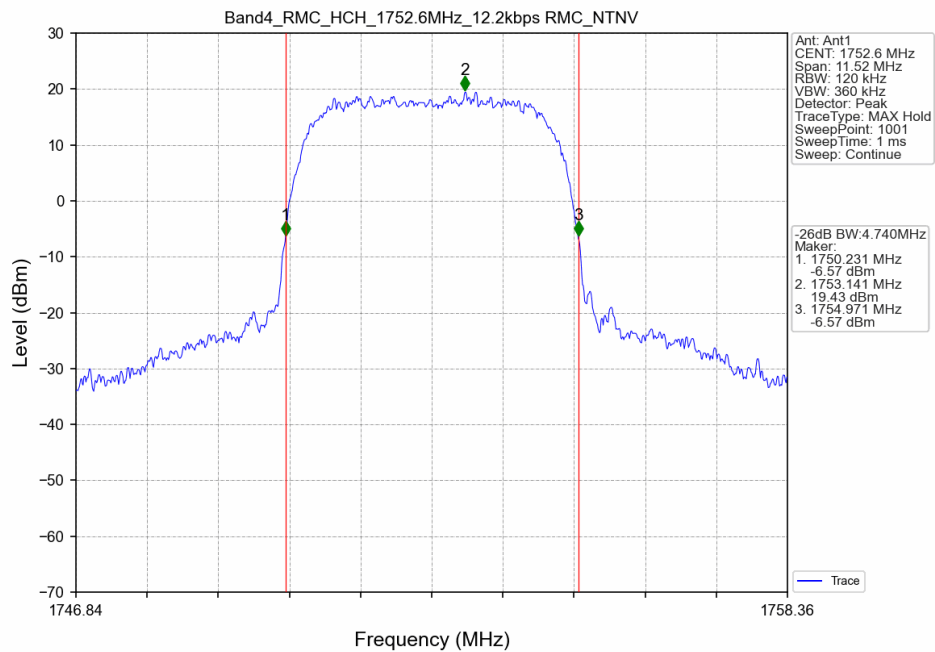
Band IV_HSUPA_HCH_1752.6MHz_Subtest 1_NTNV



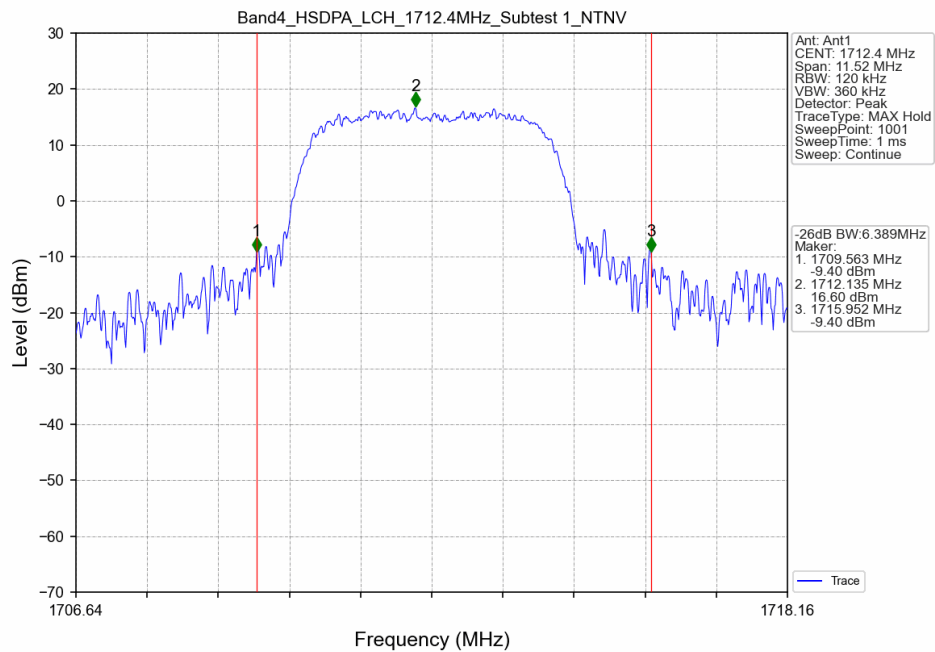
3.2.2 Band IV_XDB



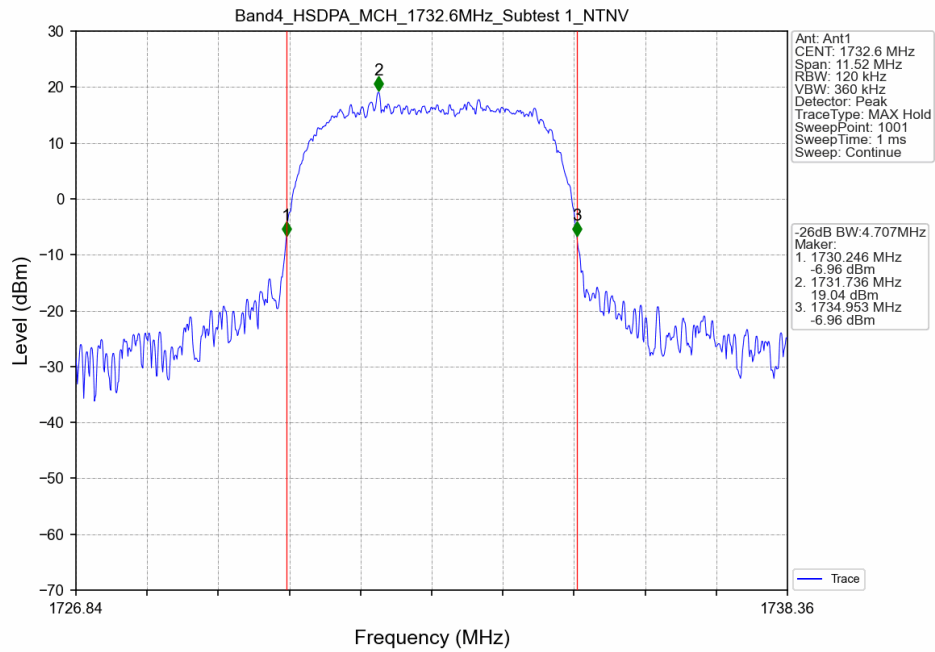
Band IV_RMC_HCH_1752.6MHz_12.2kbps_RMC_NTNV



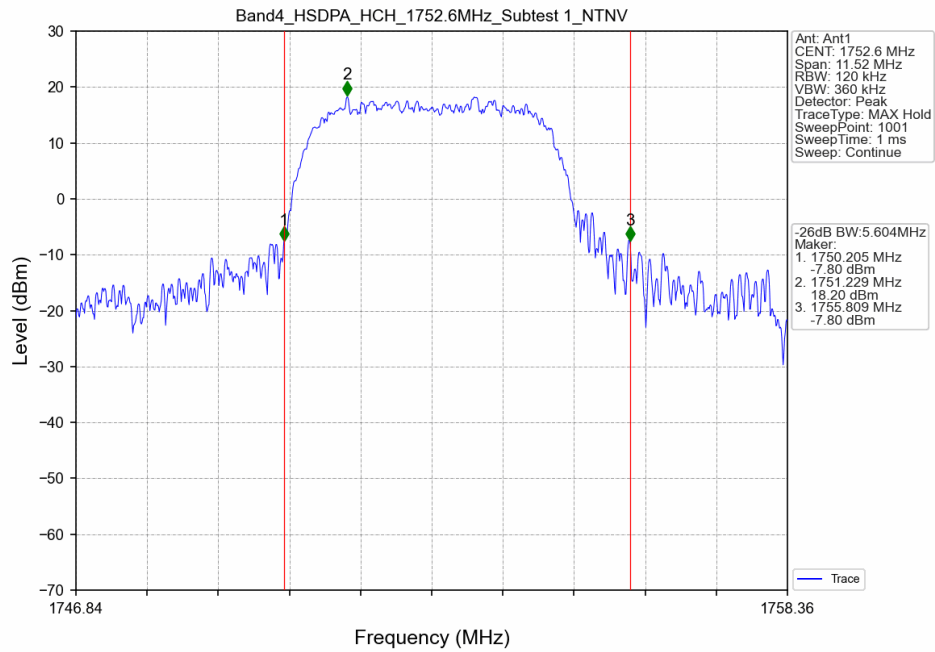
Band IV_HSDPA_LCH_1712.4MHz_Subtest 1_NTNV



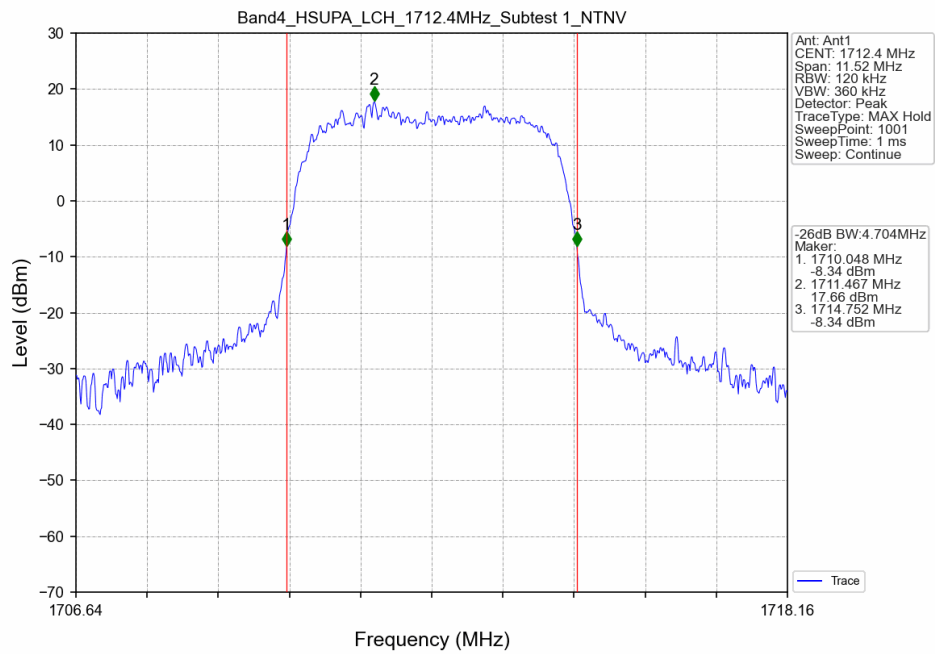
Band IV_HSDPA_MCH_1732.6MHz_Subtest 1_NTNV



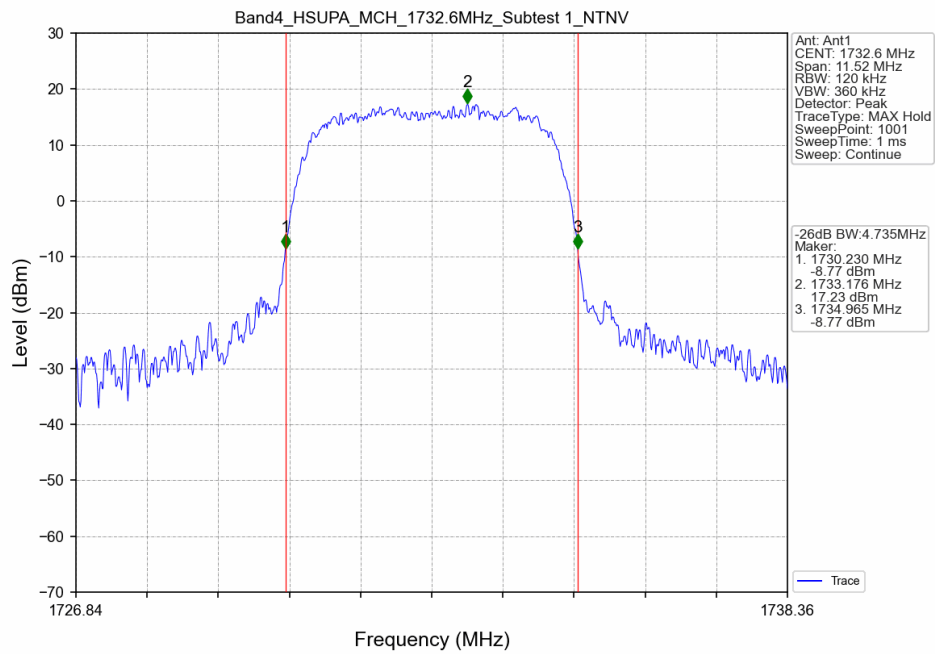
Band IV_HSDPA_HCH_1752.6MHz_Subtest 1_NTNV



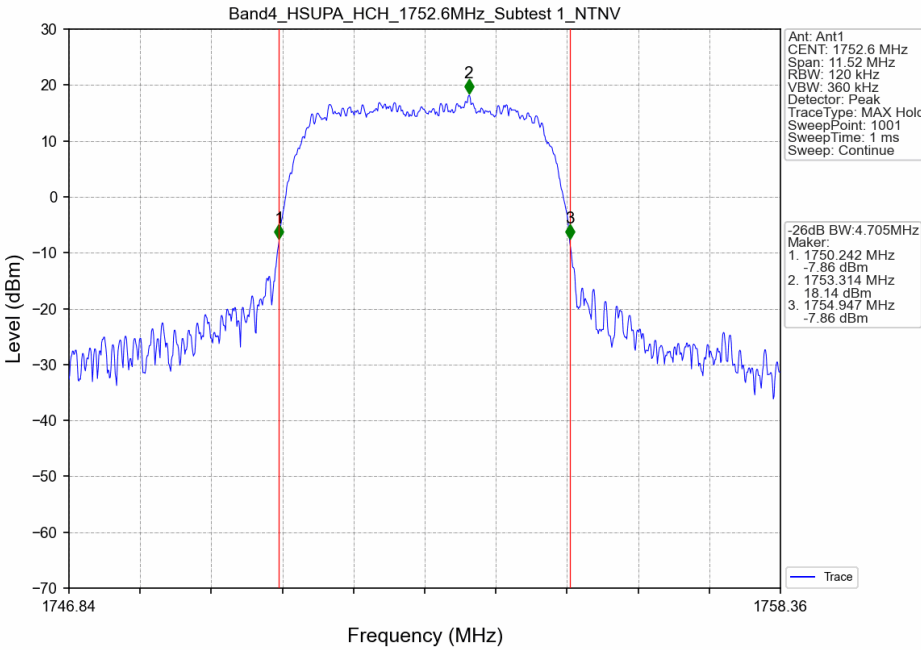
Band IV_HSUPA_LCH_1712.4MHz_Subtest 1_NTNV



Band IV_HSUPA_MCH_1732.6MHz_Subtest 1_NTNV



Band IV HSUPA HCH 1752.6MHz Subtest 1 NTN



4. Peak-Average Ratio

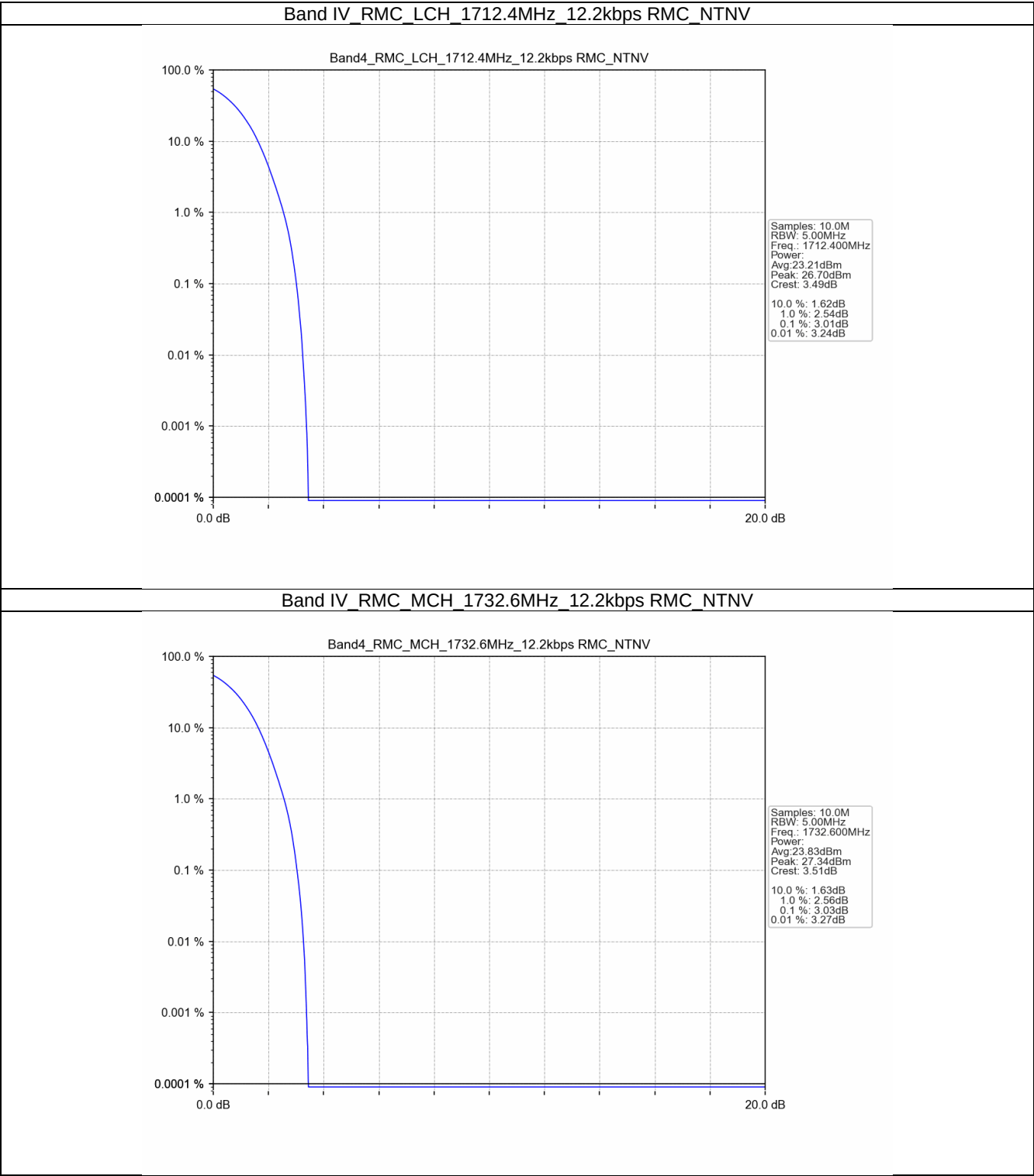
4.1 Test Result

4.1.1 Band IV

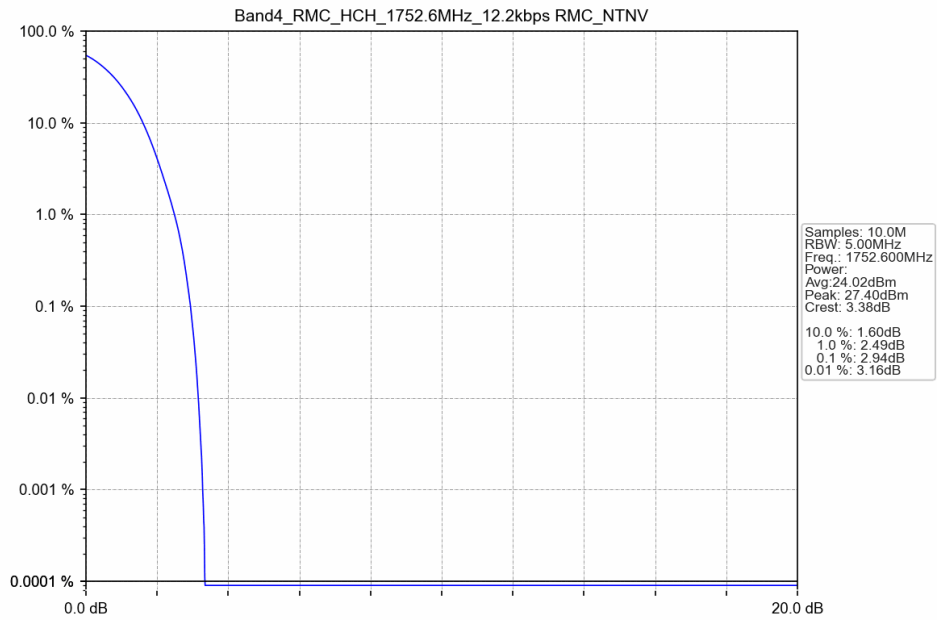
Band IV						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	3.01	<=13	Pass
			1732.6	3.03	<=13	Pass
			1752.6	2.94	<=13	Pass
	HSDPA	Subtest 1	1712.4	5.60	<=13	Pass
			1732.6	5.62	<=13	Pass
			1752.6	5.62	<=13	Pass
	HSUPA	Subtest 1	1712.4	4.62	<=13	Pass
			1732.6	4.58	<=13	Pass
			1752.6	4.57	<=13	Pass

4.2 Test Graph

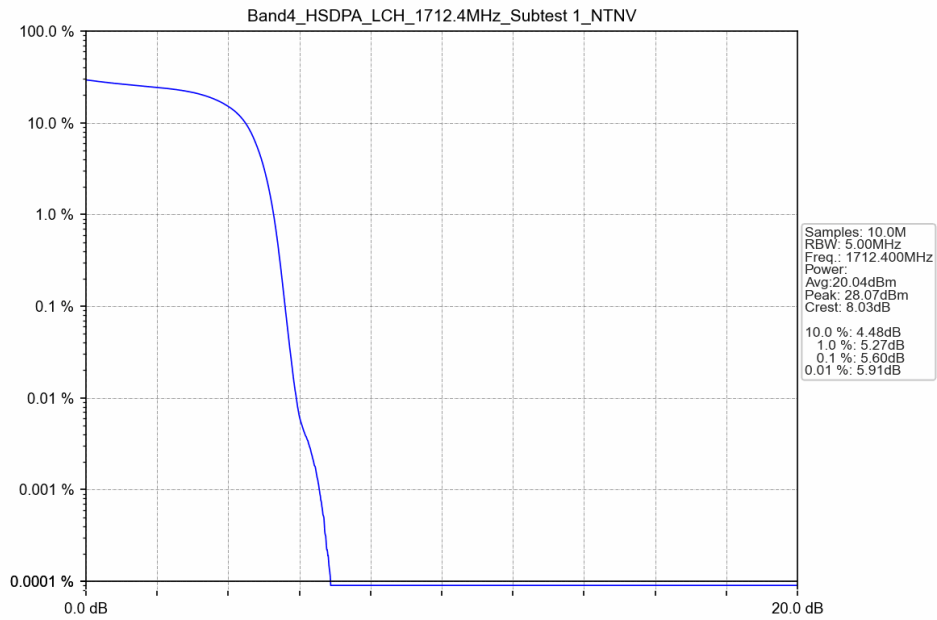
4.2.1 Band IV



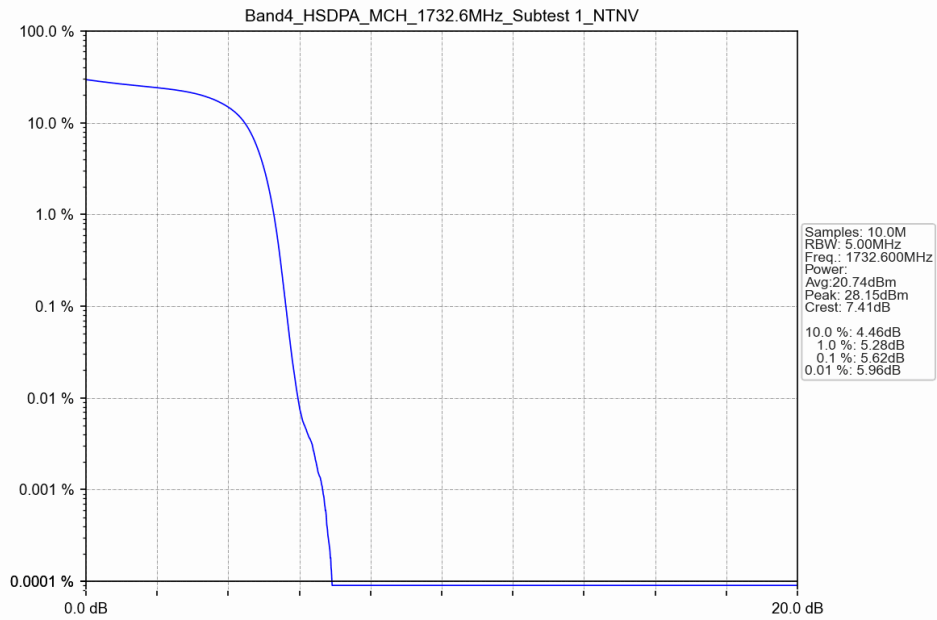
Band IV_RMC_HCH_1752.6MHz_12.2kbps_RMC_NTNV



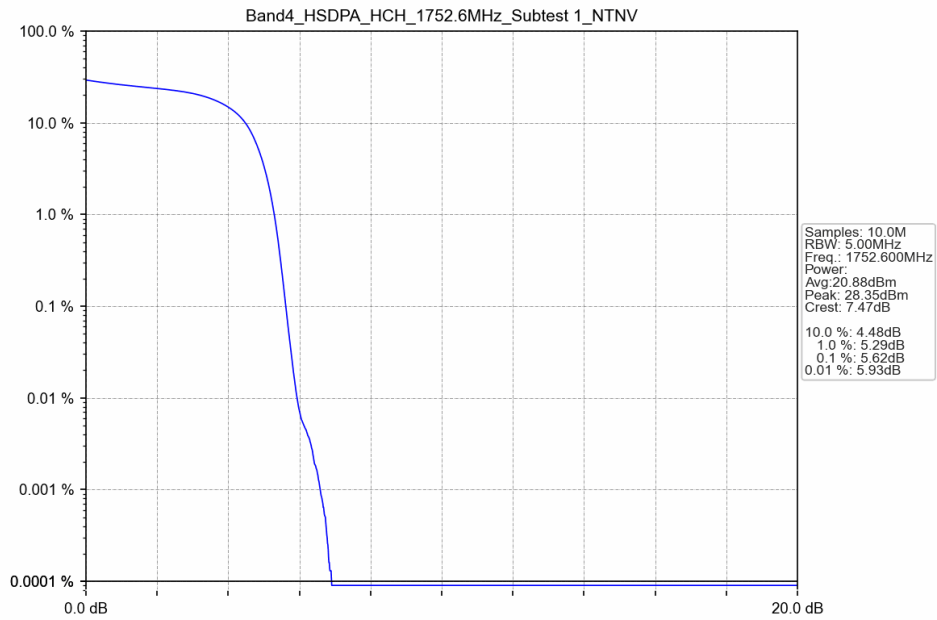
Band IV_HSDPA_LCH_1712.4MHz_Subtest 1_NTNV



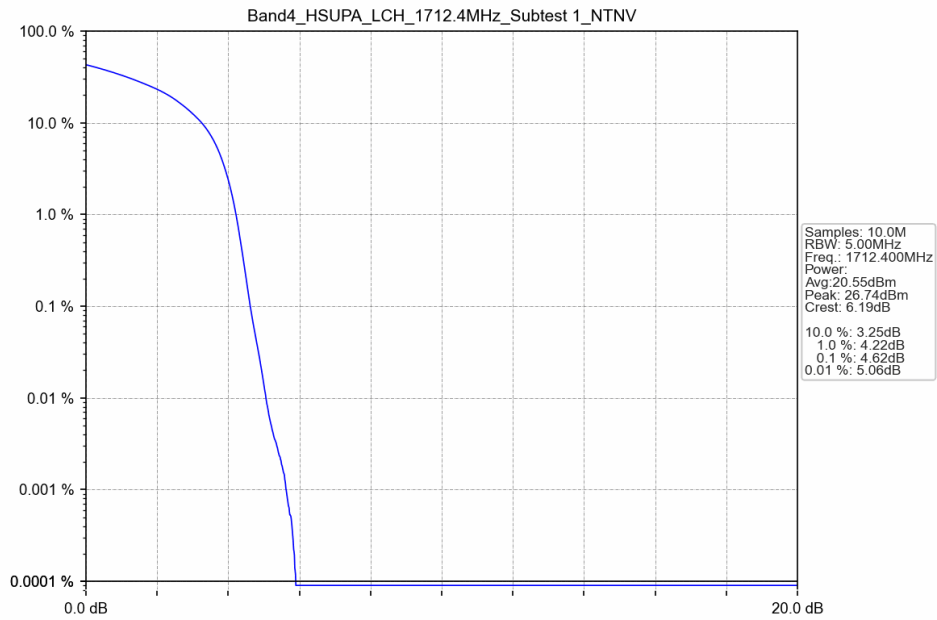
Band IV_HSDPA_MCH_1732.6MHz_Subtest 1_NTNV



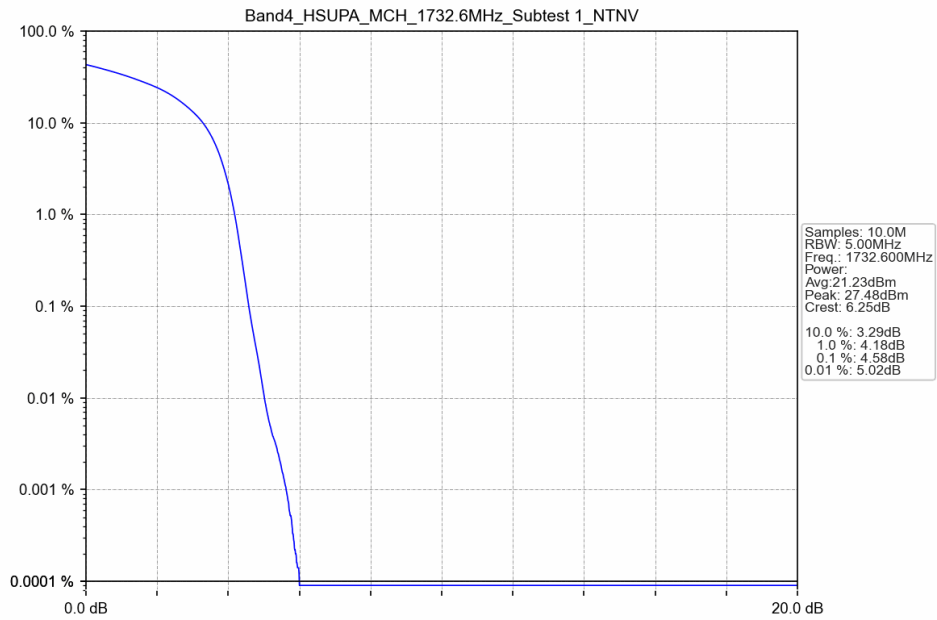
Band IV_HSDPA_HCH_1752.6MHz_Subtest 1_NTNV



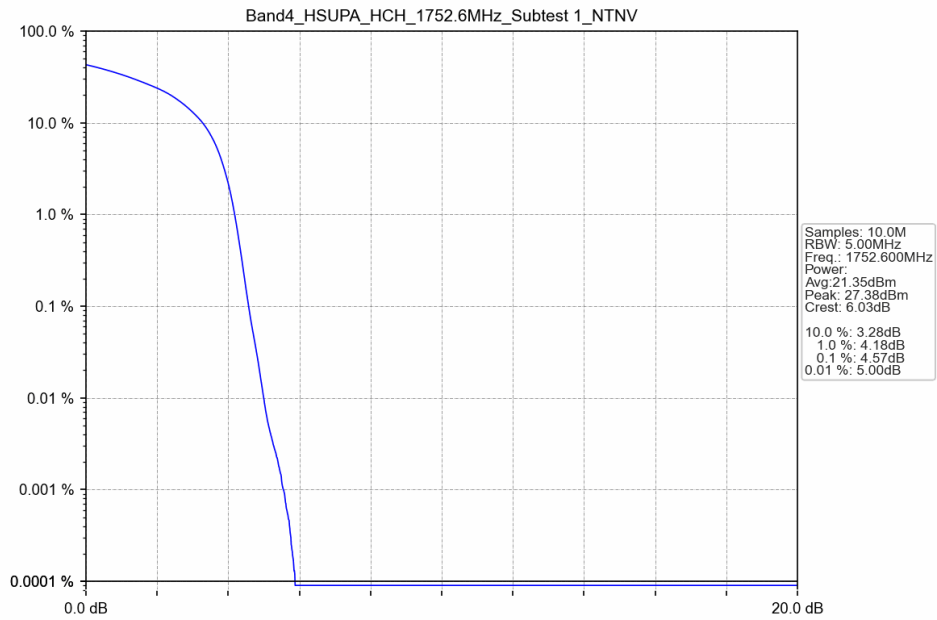
Band IV_HSUPA_LCH_1712.4MHz_Subtest 1_NTNV



Band IV_HSUPA_MCH_1732.6MHz_Subtest 1_NTNV



Band IV_HSUPA_HCH_1752.6MHz_Subtest 1_NTNV



5. Spurious Emission & Band Edges

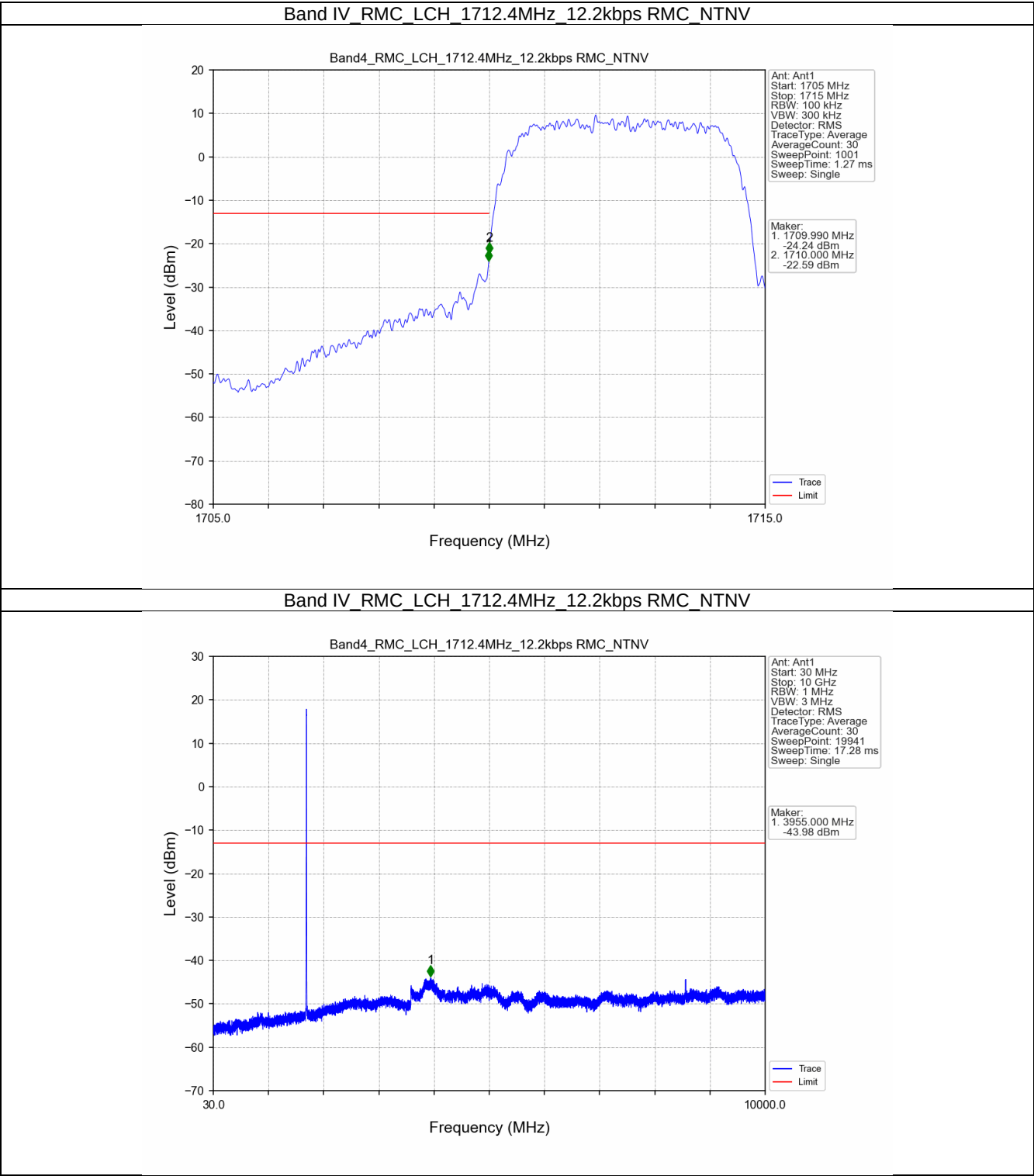
5.1 Test Result

5.1.1 Band IV

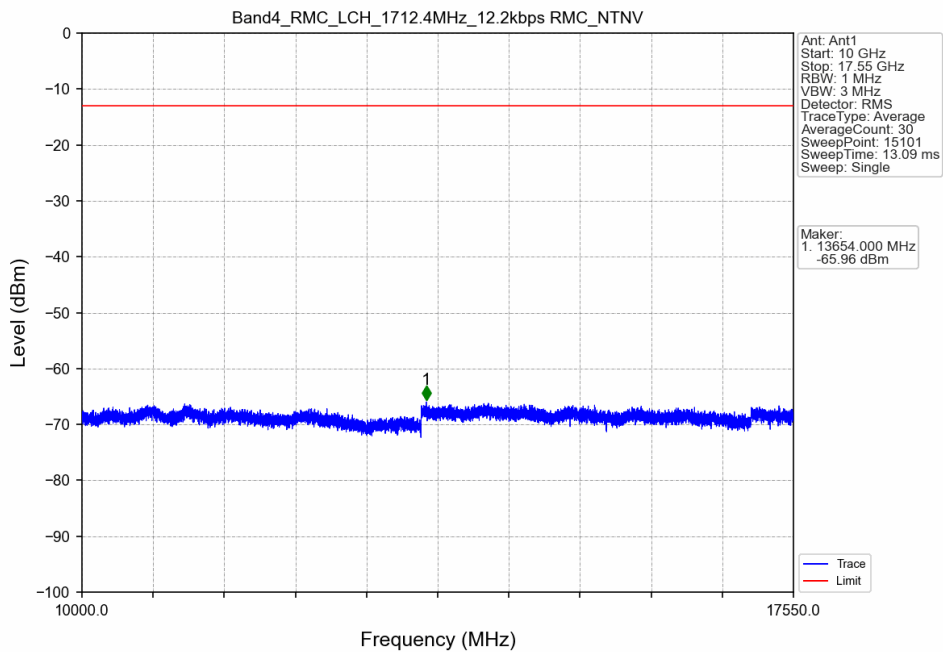
Band IV					
ENV	Mode		Frequency (MHz)	Spurious Emission	
	Network	Subset		Result	Limit
NTNV	RMC	12.2kbps RMC	1712.4	Refer To Test Graph	Pass
			1732.6	Refer To Test Graph	Pass
			1752.6	Refer To Test Graph	Pass
	HSDPA	Subtest 1	1712.4	Refer To Test Graph	Pass
			1732.6	Refer To Test Graph	Pass
			1752.6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

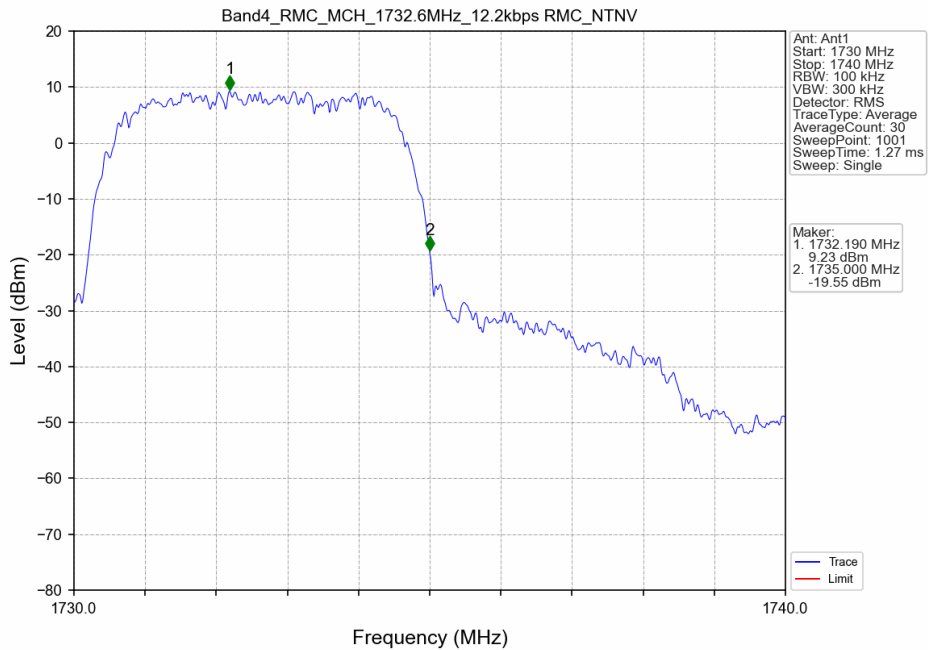
5.2.1 Band IV



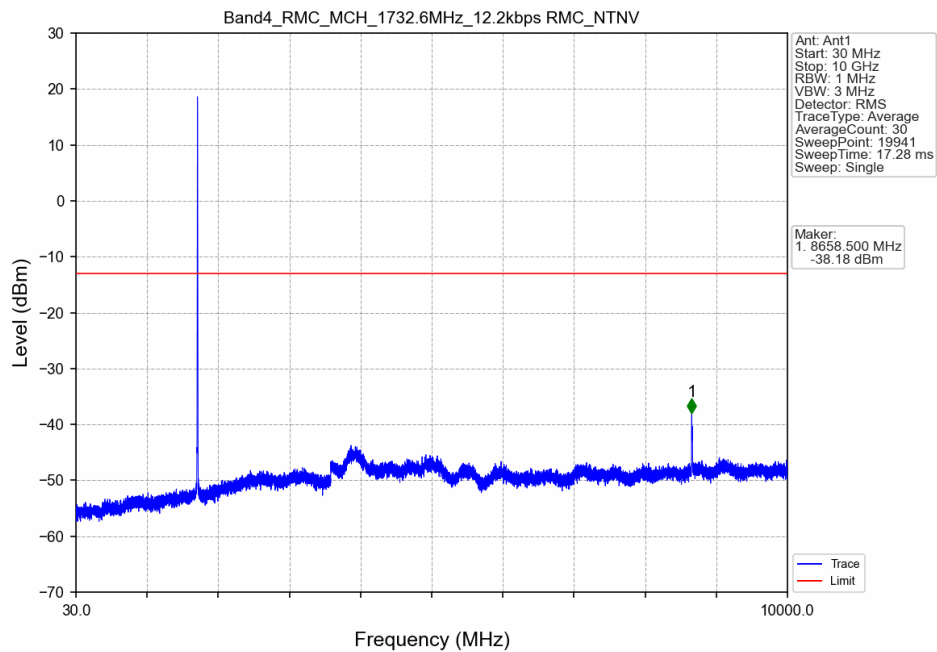
Band IV_RMC_LCH_1712.4MHz_12.2kbps RMC_NTNV



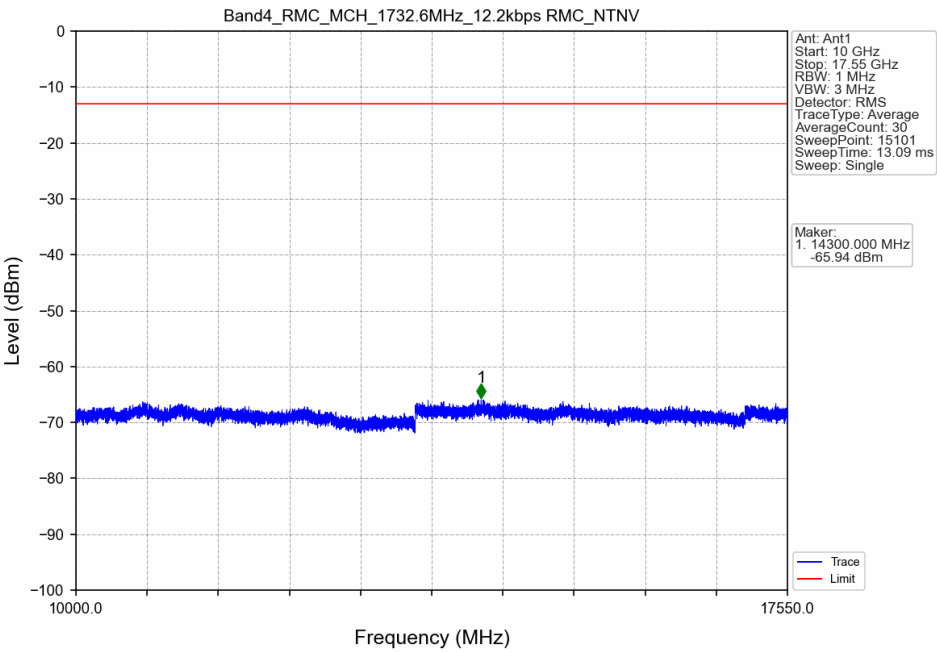
Band IV_RMC_MCH_1732.6MHz_12.2kbps RMC_NTNV



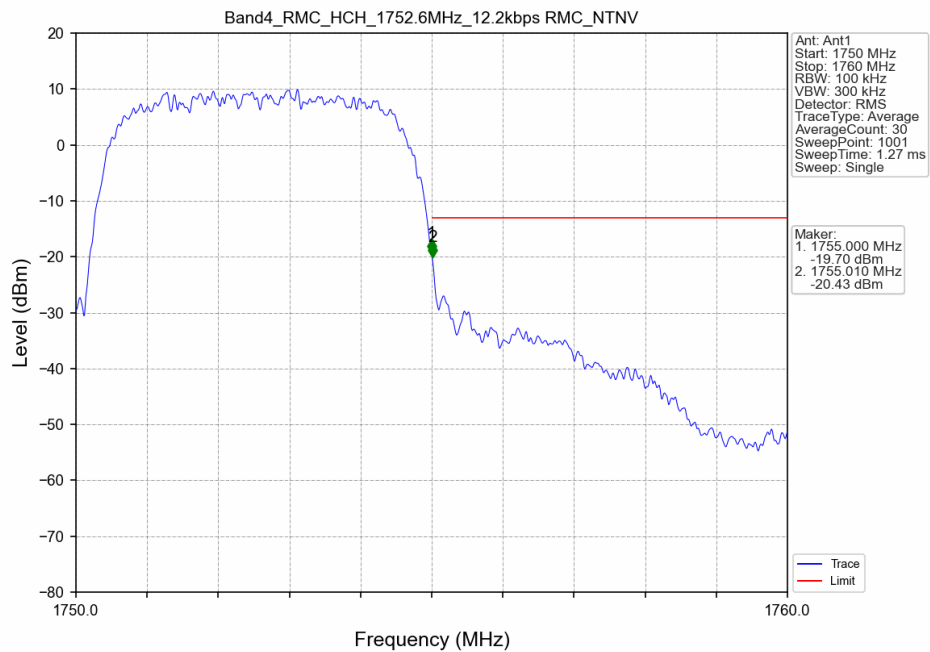
Band IV_RMC_MCH_1732.6MHz_12.2kbps RMC_NTNV



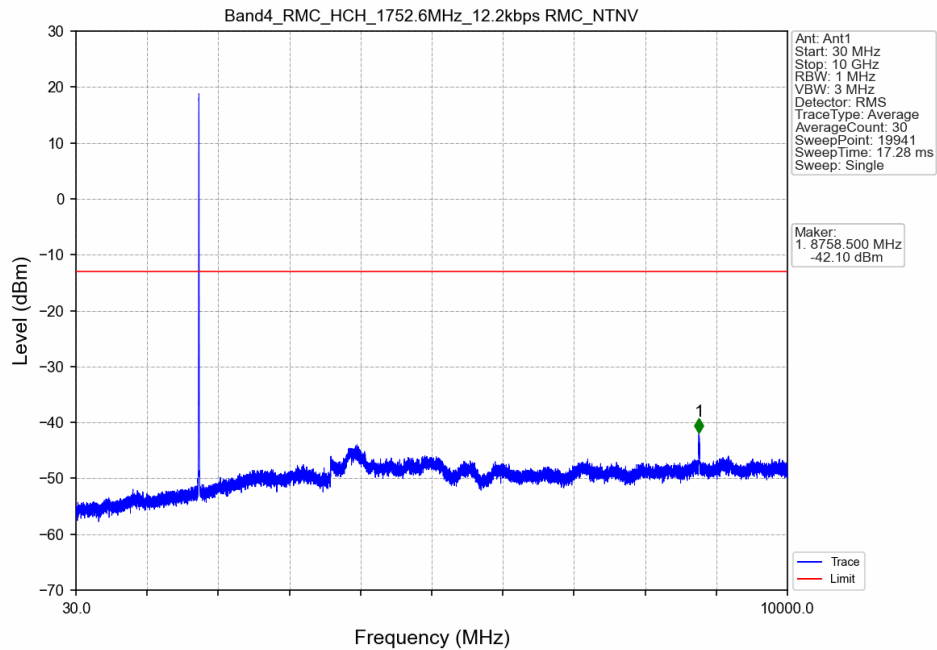
Band IV_RMC_MCH_1732.6MHz_12.2kbps RMC_NTNV



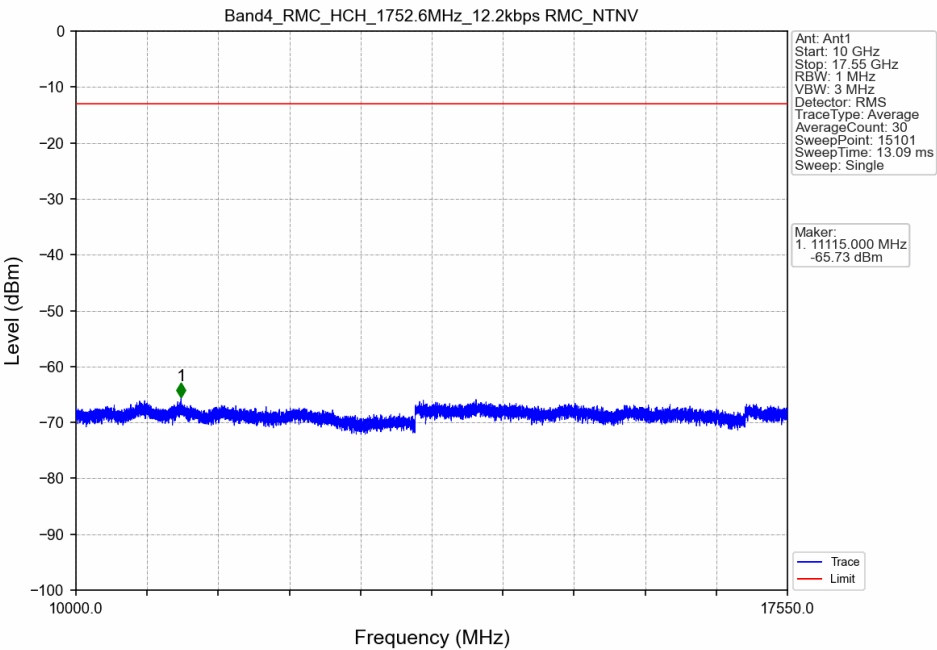
Band IV_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



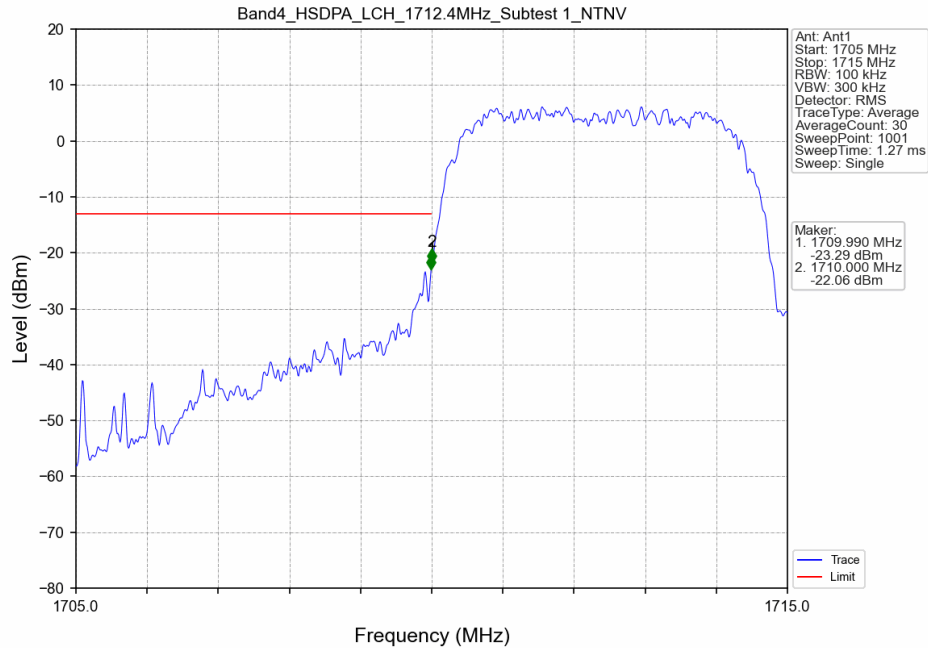
Band IV_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



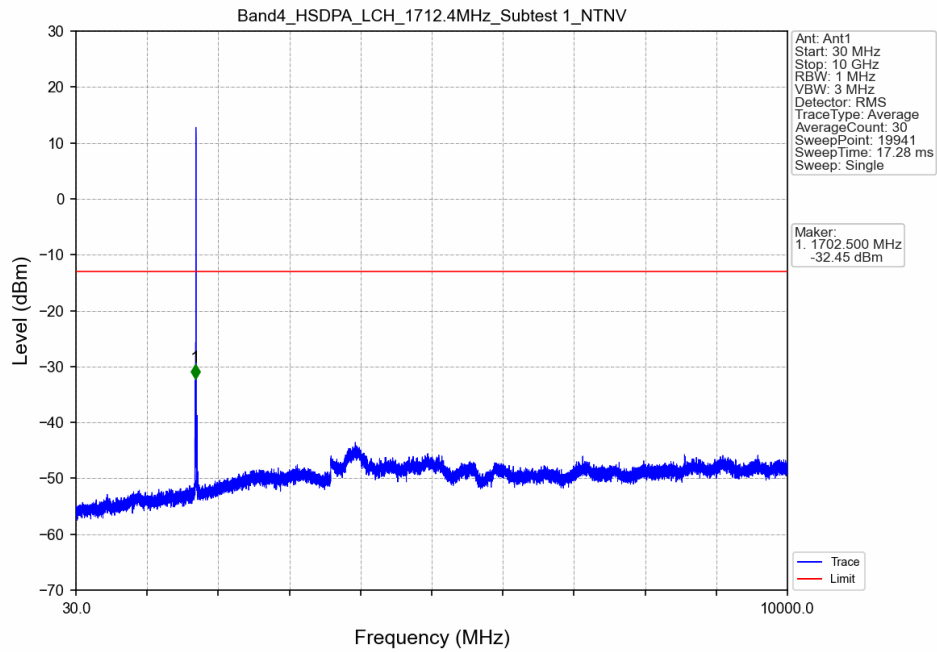
Band IV_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



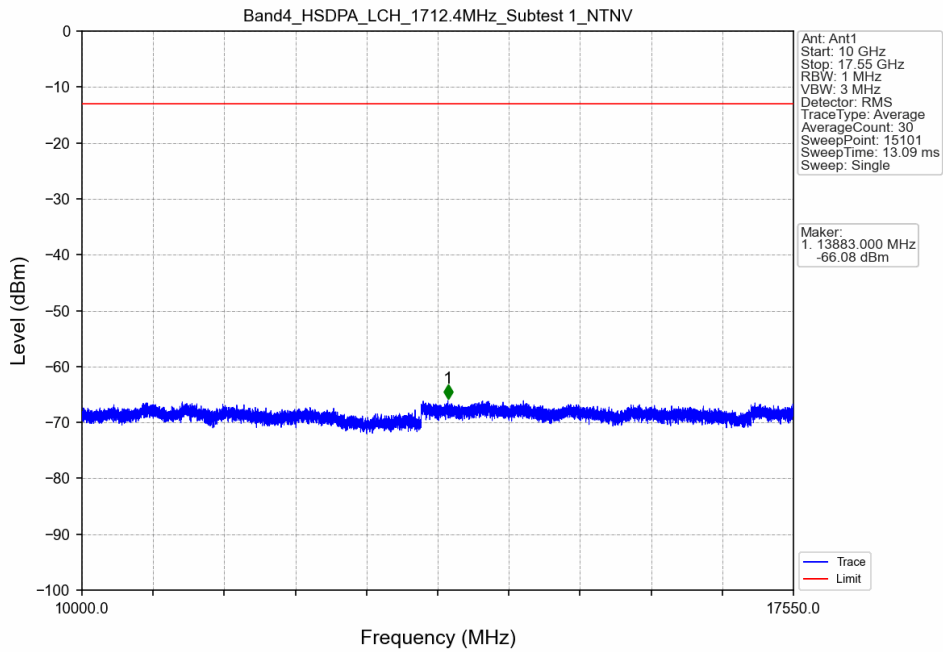
Band IV_HSDPA_LCH_1712.4MHz_Subtest 1_NTNV



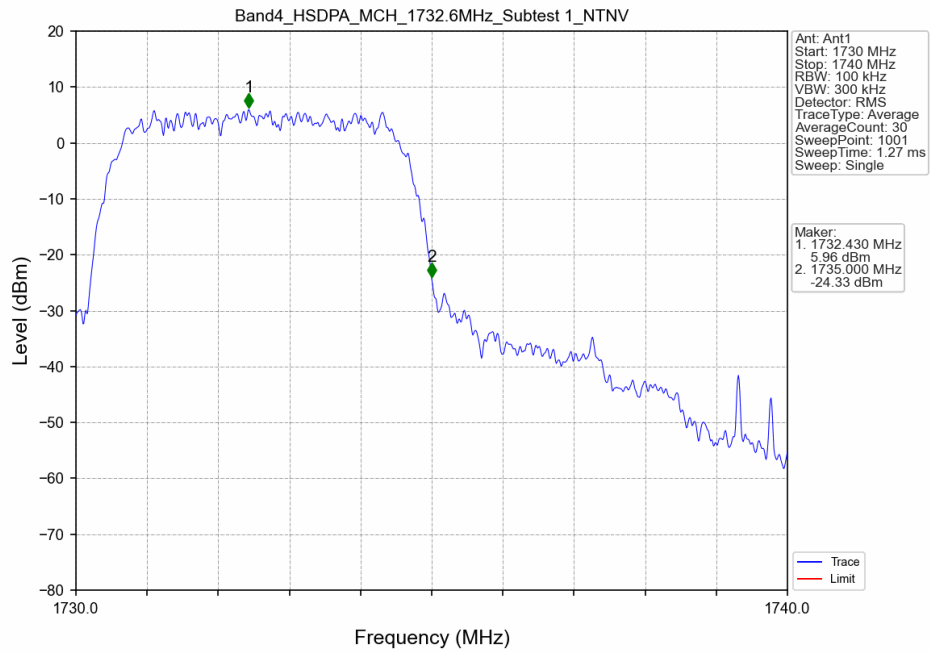
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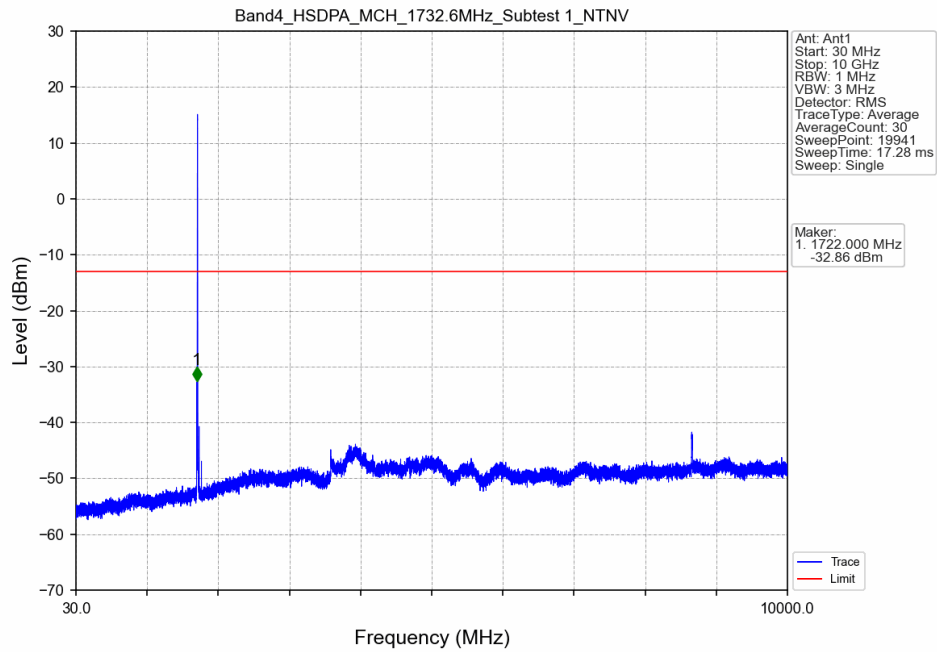
Band IV_HSDPA_LCH_1712.4MHz_Subtest 1_NTNV



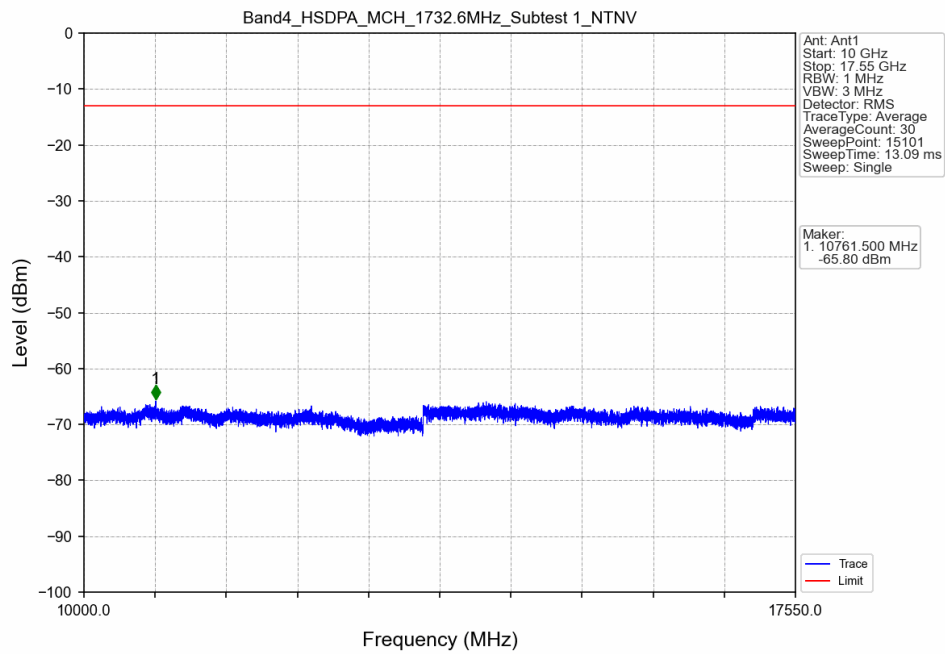
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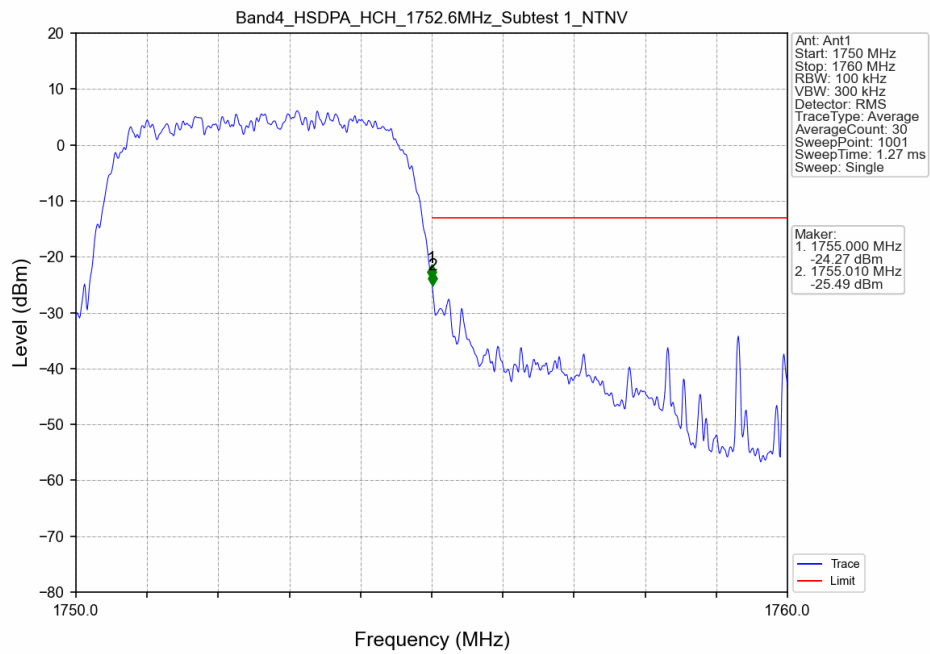
Band IV_HSDPA_MCH_1732.6MHz_Subtest 1_NTNV



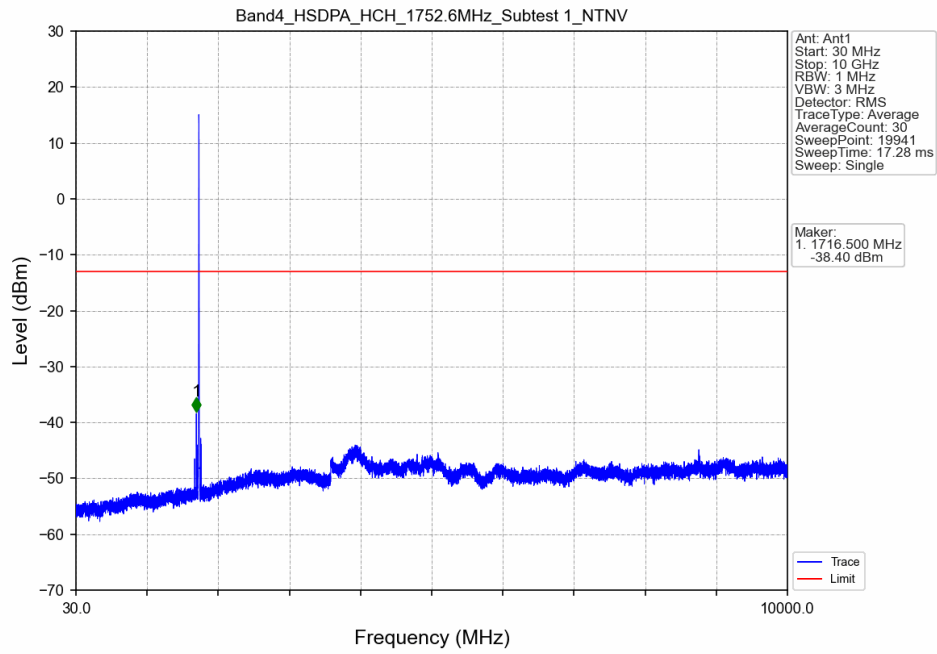
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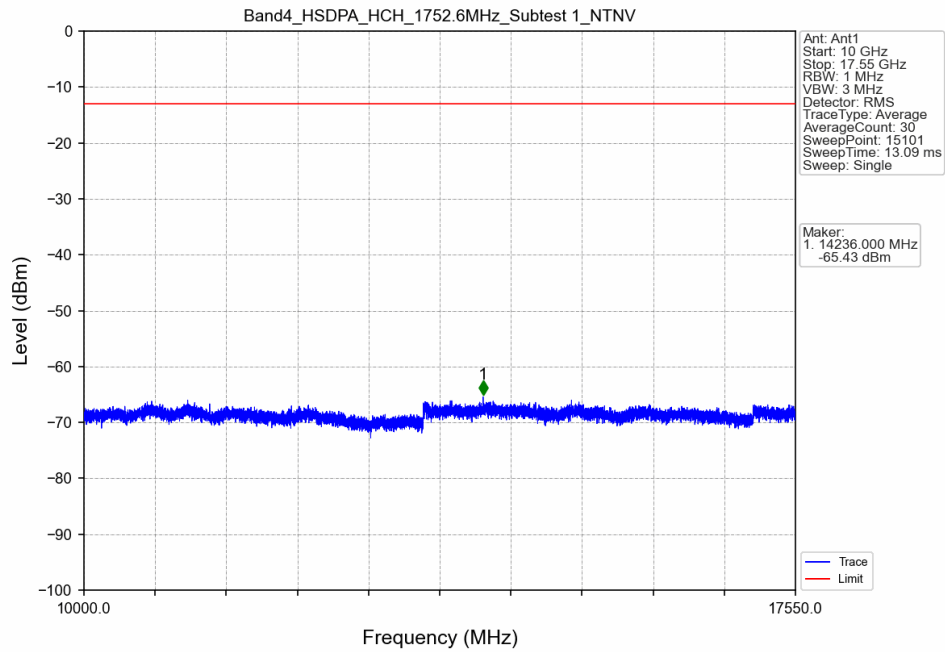
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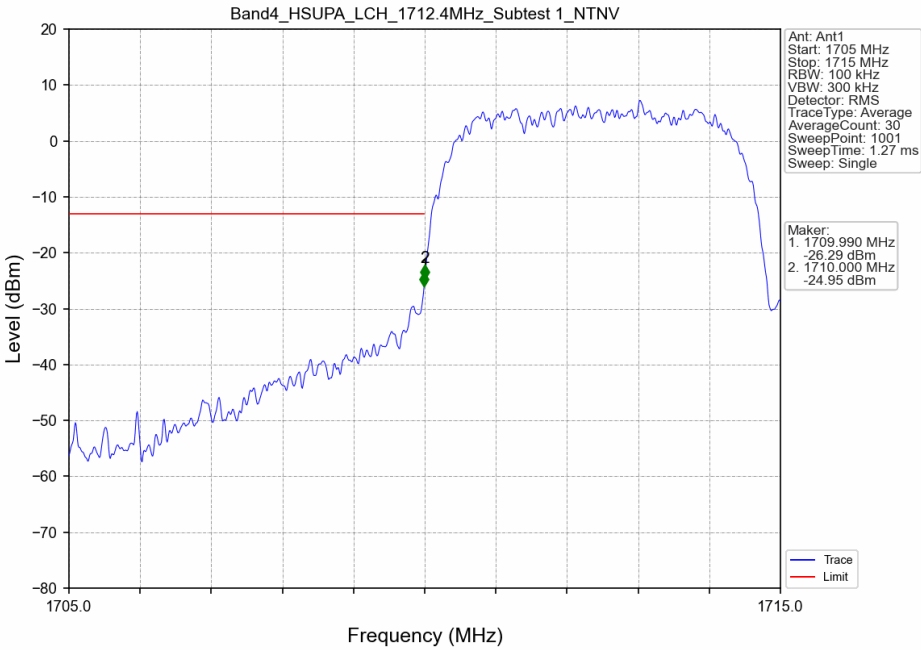
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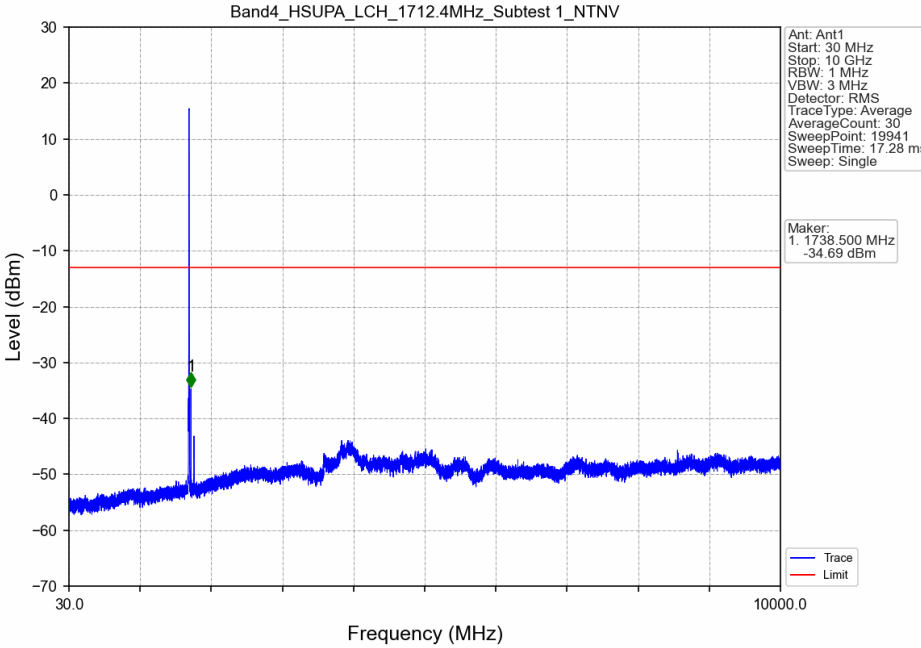
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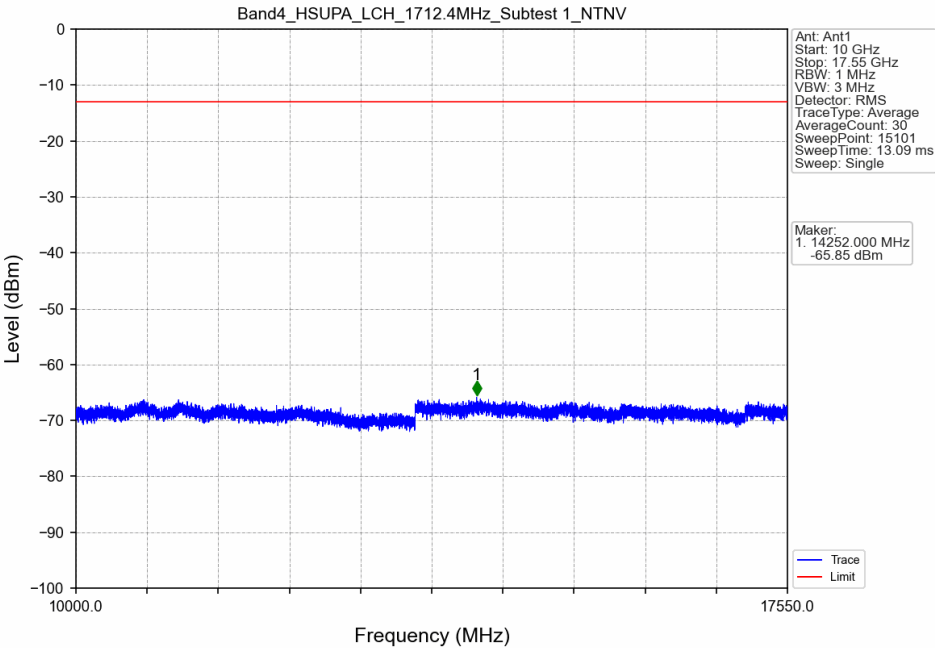
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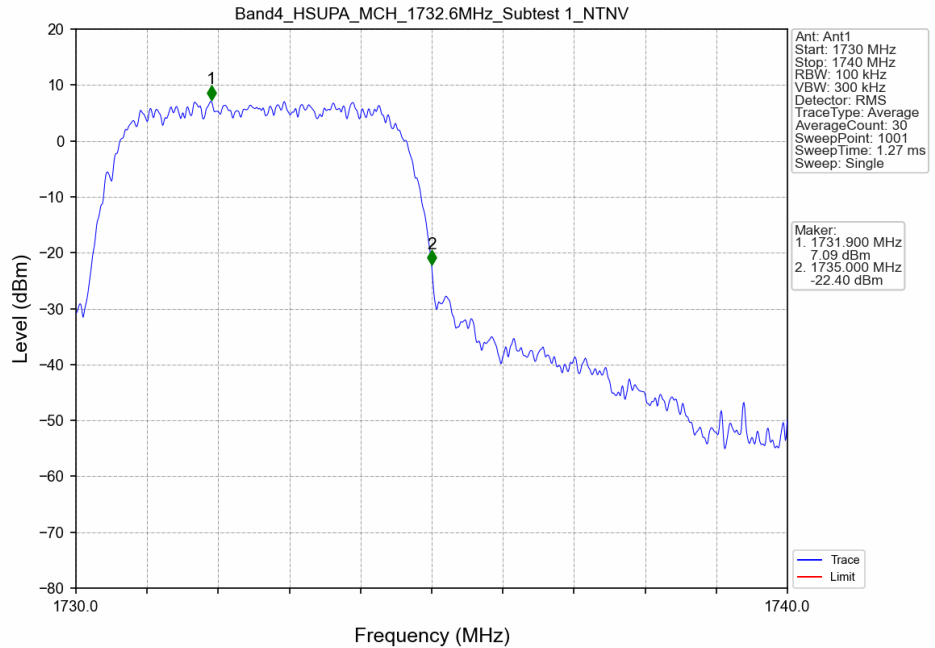
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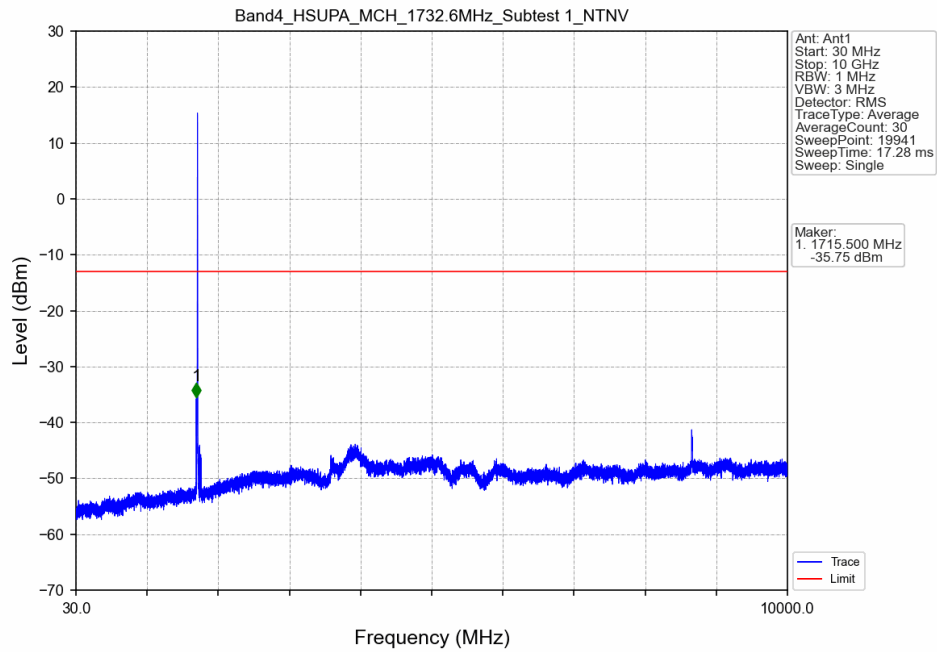
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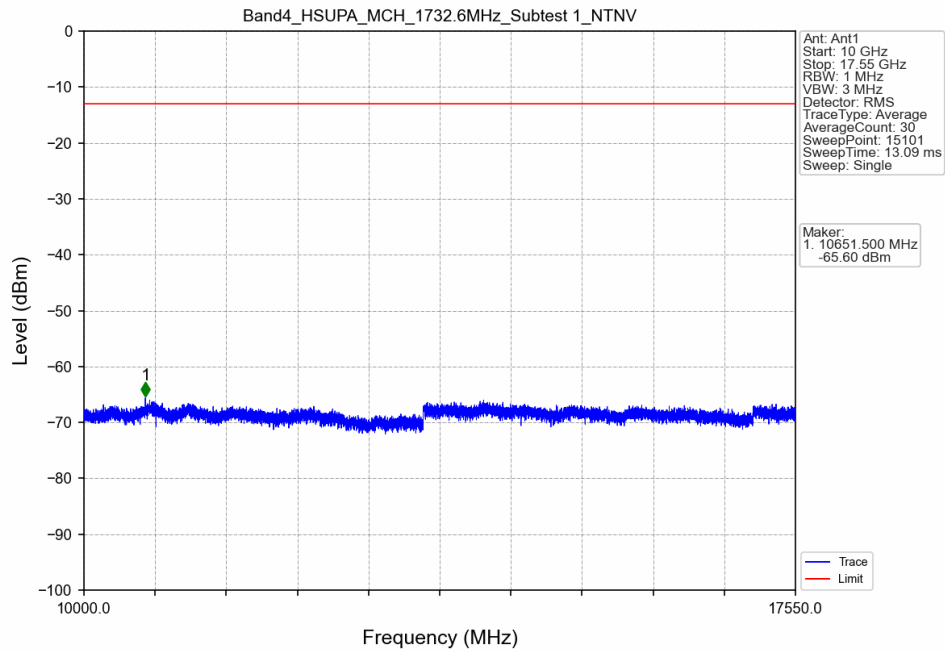
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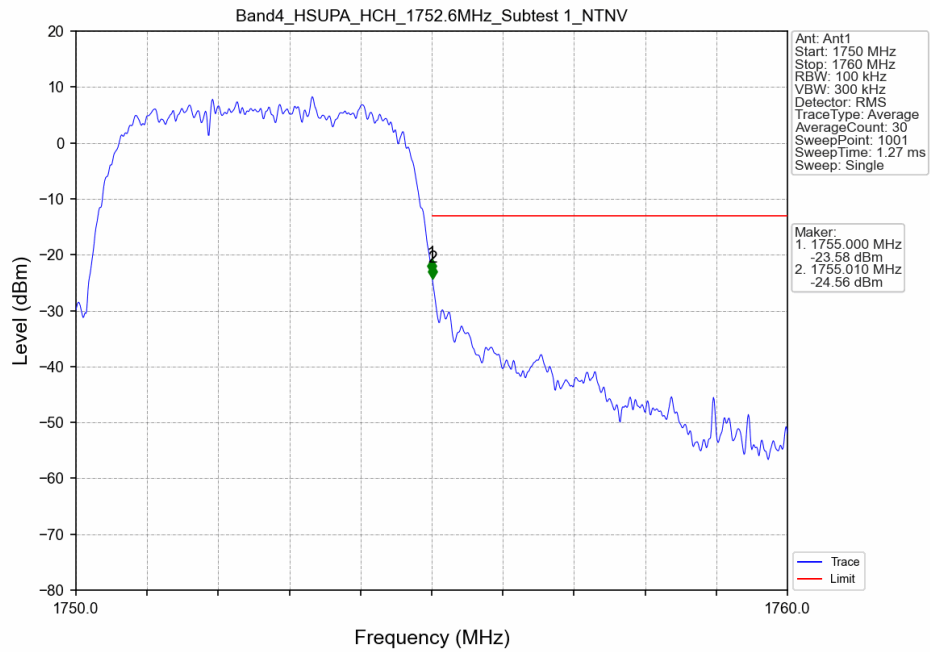
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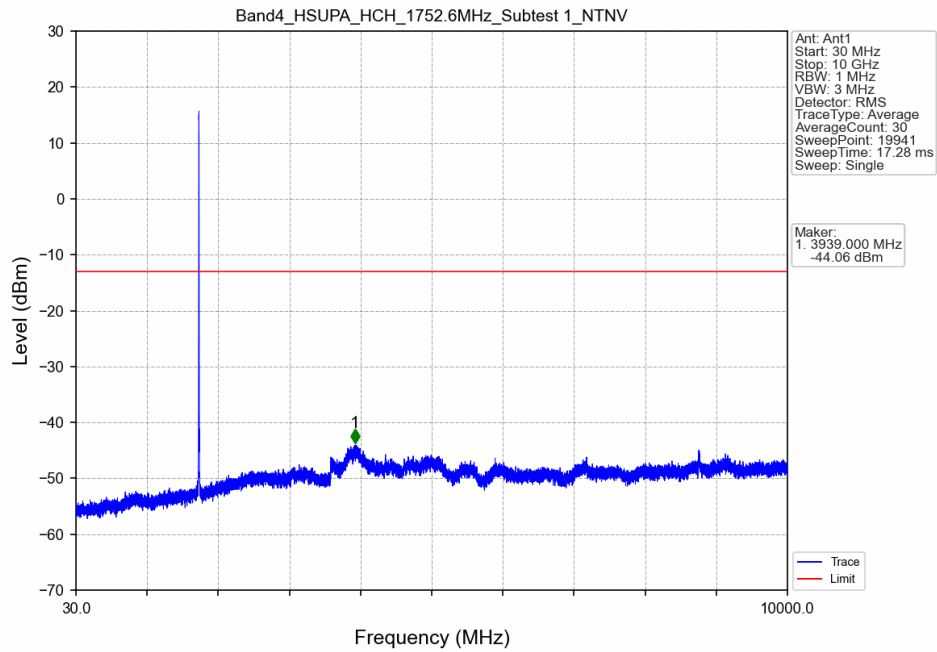
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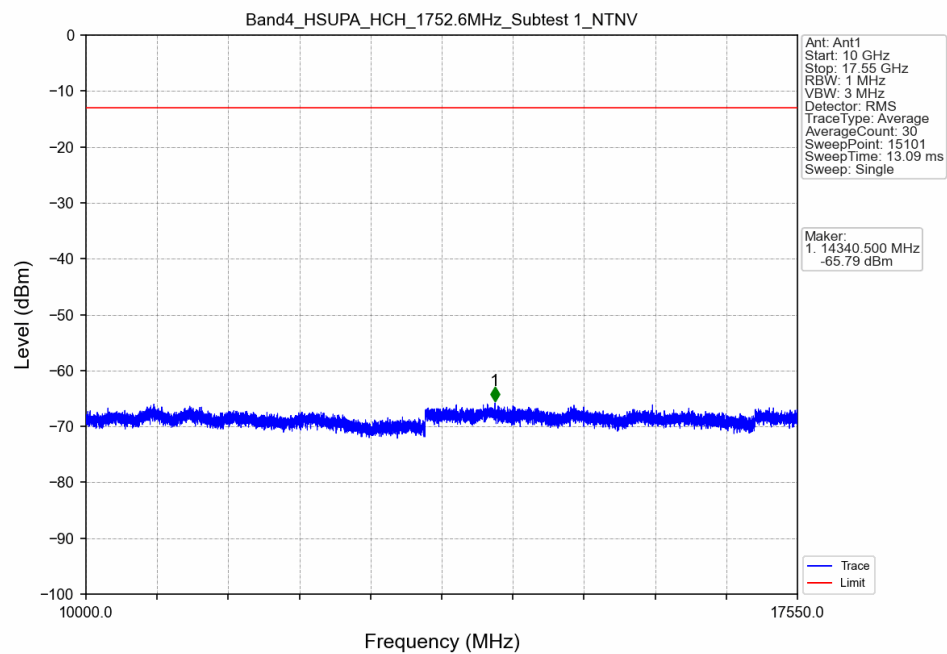
Band IV_HSUPA_HCH_1752.6MHz_Subtest 1_NTNV



Band IV_HSUPA_HCH_1752.6MHz_Subtest 1_NTNV



Band IV_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	-54.51	-13	-41.51	-59.13	3.36	7.98	Horizontal	Pass
5137.2	-62.7	-13	-49.7	-68.32	4.61	10.23	Horizontal	Pass
8563.818	-39.13	-13	-26.13	-47.03	5.06	12.96	Horizontal	Pass
3424.8	-62.07	-13	-49.07	-66.69	3.36	7.98	Vertical	Pass
5137.2	-62.69	-13	-49.69	-68.31	4.61	10.23	Vertical	Pass
8563.818	-45.73	-13	-32.73	-53.63	5.06	12.96	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	-58.42	-13	-45.42	-63.12	3.38	8.08	Horizontal	Pass
5197.8	-61.7	-13	-48.7	-67.33	4.63	10.26	Horizontal	Pass
8663.404	-39.52	-13	-26.52	-47.44	5.09	13.01	Horizontal	Pass
3465.2	-63.99	-13	-50.99	-68.69	3.38	8.08	Vertical	Pass
5197.8	-62.48	-13	-49.48	-68.11	4.63	10.26	Vertical	Pass
8663.404	-45.93	-13	-32.93	-53.85	5.09	13.01	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	-61.22	-13	-48.22	-66.0	3.4	8.18	Horizontal	Pass
5257.8	-62.49	-13	-49.49	-68.14	4.65	10.3	Horizontal	Pass
7010.4	-60.03	-13	-47.03	-66.25	4.92	11.14	Horizontal	Pass
3505.2	-66.18	-13	-53.18	-70.96	3.4	8.18	Vertical	Pass
5257.8	-62.39	-13	-49.39	-68.04	4.65	10.3	Vertical	Pass
7010.4	-60.27	-13	-47.27	-66.49	4.92	11.14	Vertical	Pass

---End of Attachment---