

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	23.91	-3.33	20.58	<=30	Pass	
			1732.6	23.81	-3.33	20.48	<=30	Pass	
			1752.6	23.95	-3.33	20.62	<=30	Pass	
	HSDPA	Subtest 1	1712.4	21.46	-3.33	18.13	<=30	Pass	
		Subtest 2	1712.4	21.42	-3.33	18.09	<=30	Pass	
		Subtest 3	1712.4	21.46	-3.33	18.13	<=30	Pass	
		Subtest 4	1712.4	21.47	-3.33	18.14	<=30	Pass	
		Subtest 1	1732.6	21.36	-3.33	18.03	<=30	Pass	
		Subtest 2	1732.6	21.38	-3.33	18.05	<=30	Pass	
		Subtest 3	1732.6	21.39	-3.33	18.06	<=30	Pass	
		Subtest 4	1732.6	21.36	-3.33	18.03	<=30	Pass	
		Subtest 1	1752.6	21.44	-3.33	18.11	<=30	Pass	
		Subtest 2	1752.6	21.42	-3.33	18.09	<=30	Pass	
		Subtest 3	1752.6	21.46	-3.33	18.13	<=30	Pass	
		Subtest 4	1752.6	21.45	-3.33	18.12	<=30	Pass	
		HSUPA	Subtest 1	1712.4	19.13	-3.33	15.80	<=30	Pass
			Subtest 2	1712.4	18.94	-3.33	15.61	<=30	Pass
			Subtest 3	1712.4	19.39	-3.33	16.06	<=30	Pass
			Subtest 4	1712.4	19.37	-3.33	16.04	<=30	Pass
			Subtest 5	1712.4	19.59	-3.33	16.26	<=30	Pass
			Subtest 1	1732.6	19.25	-3.33	15.92	<=30	Pass
			Subtest 2	1732.6	18.76	-3.33	15.43	<=30	Pass
			Subtest 3	1732.6	18.94	-3.33	15.61	<=30	Pass
	Subtest 4		1732.6	19.20	-3.33	15.87	<=30	Pass	
	Subtest 5		1732.6	19.14	-3.33	15.81	<=30	Pass	
	Subtest 1		1752.6	19.05	-3.33	15.72	<=30	Pass	
	Subtest 2		1752.6	18.87	-3.33	15.54	<=30	Pass	
	Subtest 3		1752.6	19.06	-3.33	15.73	<=30	Pass	
	Subtest 4		1752.6	19.37	-3.33	16.04	<=30	Pass	
	Subtest 5		1752.6	19.62	-3.33	16.29	<=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 (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
RMC	1712.4	20	3.27	-18.282	-0.0107	-2.5 to 2.5	Pass
			3.85	-18.318	-0.0107	-2.5 to 2.5	Pass
			4.43	-16.229	-0.0095	-2.5 to 2.5	Pass

	1732.6	-30	3.85	-16.229	-0.0095	-2.5 to 2.5	Pass	
		-20	3.85	-17.338	-0.0101	-2.5 to 2.5	Pass	
		-10	3.85	-18.139	-0.0106	-2.5 to 2.5	Pass	
		0	3.85	-15.249	-0.0089	-2.5 to 2.5	Pass	
		10	3.85	-16.723	-0.0098	-2.5 to 2.5	Pass	
		30	3.85	-18.425	-0.0108	-2.5 to 2.5	Pass	
		40	3.85	-15.385	-0.0090	-2.5 to 2.5	Pass	
		50	3.85	-14.005	-0.0082	-2.5 to 2.5	Pass	
		1752.6	20	3.27	-13.926	-0.0080	-2.5 to 2.5	Pass
				3.85	-8.333	-0.0048	-2.5 to 2.5	Pass
				4.43	-9.098	-0.0053	-2.5 to 2.5	Pass
			-30	3.85	-8.912	-0.0051	-2.5 to 2.5	Pass
			-20	3.85	-11.888	-0.0069	-2.5 to 2.5	Pass
			-10	3.85	-11.473	-0.0066	-2.5 to 2.5	Pass
	0		3.85	-13.418	-0.0077	-2.5 to 2.5	Pass	
	10		3.85	-15.056	-0.0087	-2.5 to 2.5	Pass	
	30		3.85	-9.470	-0.0055	-2.5 to 2.5	Pass	
	40		3.85	-13.633	-0.0079	-2.5 to 2.5	Pass	
	50	3.85	-12.209	-0.0070	-2.5 to 2.5	Pass		
	1712.4	20	3.27	-8.261	-0.0047	-2.5 to 2.5	Pass	
			3.85	-11.351	-0.0065	-2.5 to 2.5	Pass	
			4.43	-13.876	-0.0079	-2.5 to 2.5	Pass	
		-30	3.85	-10.071	-0.0057	-2.5 to 2.5	Pass	
		-20	3.85	-10.343	-0.0059	-2.5 to 2.5	Pass	
		-10	3.85	-14.935	-0.0085	-2.5 to 2.5	Pass	
		0	3.85	-12.116	-0.0069	-2.5 to 2.5	Pass	
		10	3.85	-10.586	-0.0060	-2.5 to 2.5	Pass	
		30	3.85	-8.948	-0.0051	-2.5 to 2.5	Pass	
		40	3.85	-12.438	-0.0071	-2.5 to 2.5	Pass	
		50	3.85	-8.554	-0.0049	-2.5 to 2.5	Pass	
1732.6		20	3.27	-13.311	-0.0078	-2.5 to 2.5	Pass	
	3.85		-13.769	-0.0080	-2.5 to 2.5	Pass		
	4.43		-14.133	-0.0083	-2.5 to 2.5	Pass		
	-30	3.85	-15.764	-0.0092	-2.5 to 2.5	Pass		
	-20	3.85	-12.989	-0.0076	-2.5 to 2.5	Pass		
	-10	3.85	-11.072	-0.0065	-2.5 to 2.5	Pass		
	0	3.85	-11.022	-0.0064	-2.5 to 2.5	Pass		
	10	3.85	-16.987	-0.0099	-2.5 to 2.5	Pass		
	30	3.85	-17.695	-0.0103	-2.5 to 2.5	Pass		
	40	3.85	-13.425	-0.0078	-2.5 to 2.5	Pass		
	50	3.85	-12.267	-0.0072	-2.5 to 2.5	Pass		
	1752.6	20	3.27	-6.866	-0.0040	-2.5 to 2.5	Pass	
			3.85	-4.528	-0.0026	-2.5 to 2.5	Pass	
			4.43	-5.844	-0.0034	-2.5 to 2.5	Pass	
-30		3.85	-7.524	-0.0043	-2.5 to 2.5	Pass		
-20		3.85	-8.662	-0.0050	-2.5 to 2.5	Pass		
-10		3.85	-4.563	-0.0026	-2.5 to 2.5	Pass		
0		3.85	-3.276	-0.0019	-2.5 to 2.5	Pass		
10		3.85	-7.288	-0.0042	-2.5 to 2.5	Pass		
30		3.85	-11.137	-0.0064	-2.5 to 2.5	Pass		
40		3.85	-8.640	-0.0050	-2.5 to 2.5	Pass		
50	3.85	-8.440	-0.0049	-2.5 to 2.5	Pass			

		-10	3.85	-11.044	-0.0063	-2.5 to 2.5	Pass
		0	3.85	-7.188	-0.0041	-2.5 to 2.5	Pass
		10	3.85	-8.790	-0.0050	-2.5 to 2.5	Pass
		30	3.85	-5.679	-0.0032	-2.5 to 2.5	Pass
		40	3.85	-8.426	-0.0048	-2.5 to 2.5	Pass
		50	3.85	-9.141	-0.0052	-2.5 to 2.5	Pass
HSUPA	1712.4	20	3.27	-17.009	-0.0099	-2.5 to 2.5	Pass
			3.85	-15.550	-0.0091	-2.5 to 2.5	Pass
			4.43	-12.589	-0.0074	-2.5 to 2.5	Pass
		-30	3.85	-11.780	-0.0069	-2.5 to 2.5	Pass
		-20	3.85	-10.943	-0.0064	-2.5 to 2.5	Pass
		-10	3.85	-10.529	-0.0061	-2.5 to 2.5	Pass
		0	3.85	-9.971	-0.0058	-2.5 to 2.5	Pass
		10	3.85	-12.288	-0.0072	-2.5 to 2.5	Pass
		30	3.85	-8.905	-0.0052	-2.5 to 2.5	Pass
		40	3.85	-5.779	-0.0034	-2.5 to 2.5	Pass
		50	3.85	-11.959	-0.0070	-2.5 to 2.5	Pass
	1732.6	20	3.27	-19.984	-0.0115	-2.5 to 2.5	Pass
			3.85	-17.681	-0.0102	-2.5 to 2.5	Pass
			4.43	-16.329	-0.0094	-2.5 to 2.5	Pass
		-30	3.85	-17.767	-0.0103	-2.5 to 2.5	Pass
		-20	3.85	-16.465	-0.0095	-2.5 to 2.5	Pass
		-10	3.85	-17.831	-0.0103	-2.5 to 2.5	Pass
		0	3.85	-15.614	-0.0090	-2.5 to 2.5	Pass
		10	3.85	-14.877	-0.0086	-2.5 to 2.5	Pass
		30	3.85	-17.381	-0.0100	-2.5 to 2.5	Pass
		40	3.85	-17.323	-0.0100	-2.5 to 2.5	Pass
		50	3.85	-12.338	-0.0071	-2.5 to 2.5	Pass
	1752.6	20	3.27	-11.501	-0.0066	-2.5 to 2.5	Pass
			3.85	-14.677	-0.0084	-2.5 to 2.5	Pass
			4.43	-13.168	-0.0075	-2.5 to 2.5	Pass
		-30	3.85	-14.935	-0.0085	-2.5 to 2.5	Pass
		-20	3.85	-11.373	-0.0065	-2.5 to 2.5	Pass
		-10	3.85	-13.797	-0.0079	-2.5 to 2.5	Pass
		0	3.85	-12.281	-0.0070	-2.5 to 2.5	Pass
		10	3.85	-10.736	-0.0061	-2.5 to 2.5	Pass
		30	3.85	-13.661	-0.0078	-2.5 to 2.5	Pass
		40	3.85	-10.464	-0.0060	-2.5 to 2.5	Pass
		50	3.85	-10.221	-0.0058	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 Band4_OBW

Band: 4						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	4.187	/	Pass
			1732.6	4.188	/	Pass
			1752.6	4.185	/	Pass
	HSDPA	Subtest 1	1712.4	4.218	/	Pass
			1732.6	4.239	/	Pass
			1752.6	4.213	/	Pass

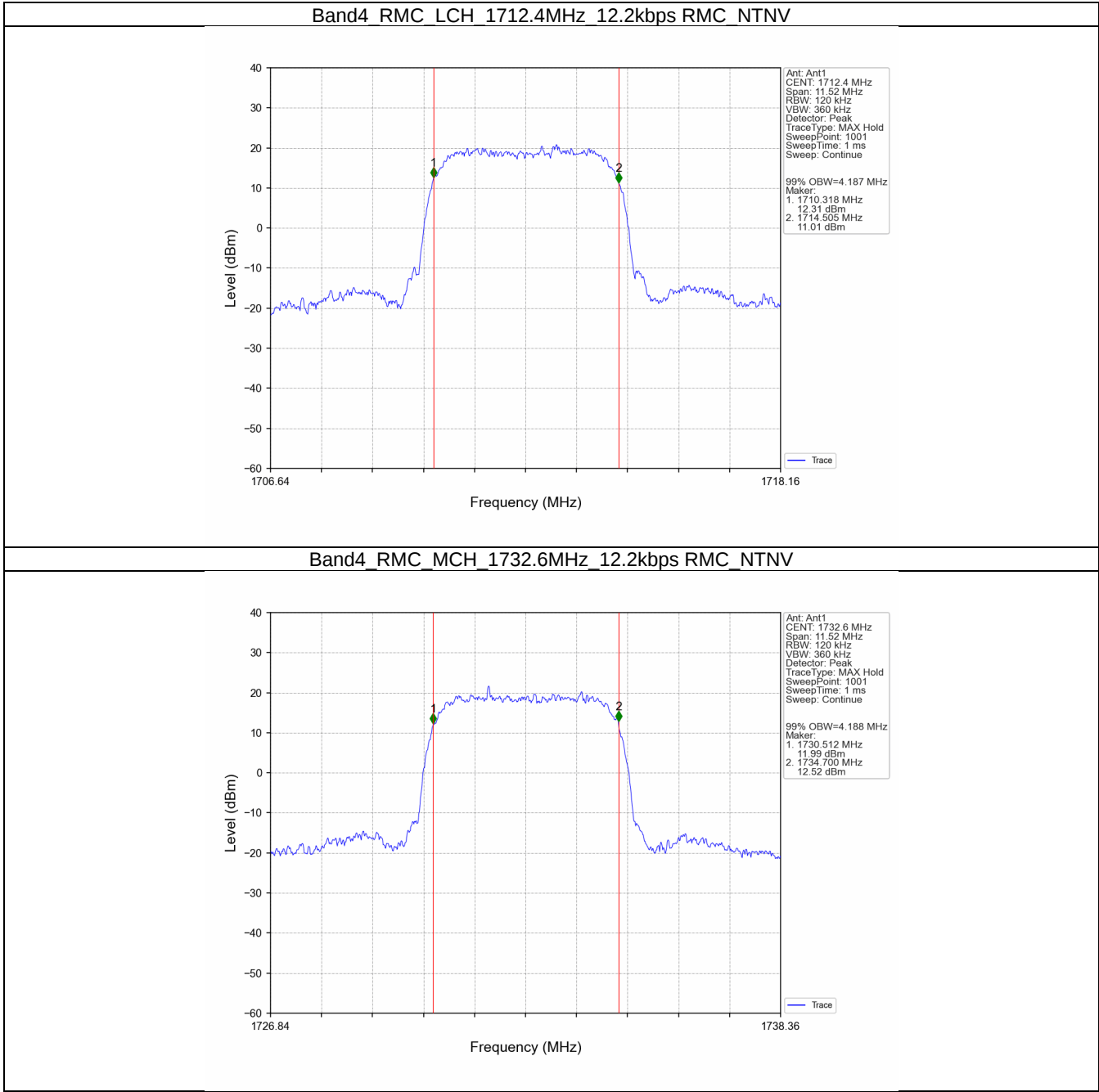
	HSUPA	Subtest 1	1712.4	4.225	/	Pass
			1732.6	4.231	/	Pass
			1752.6	4.238	/	Pass

3.1.2 Band4_XDB

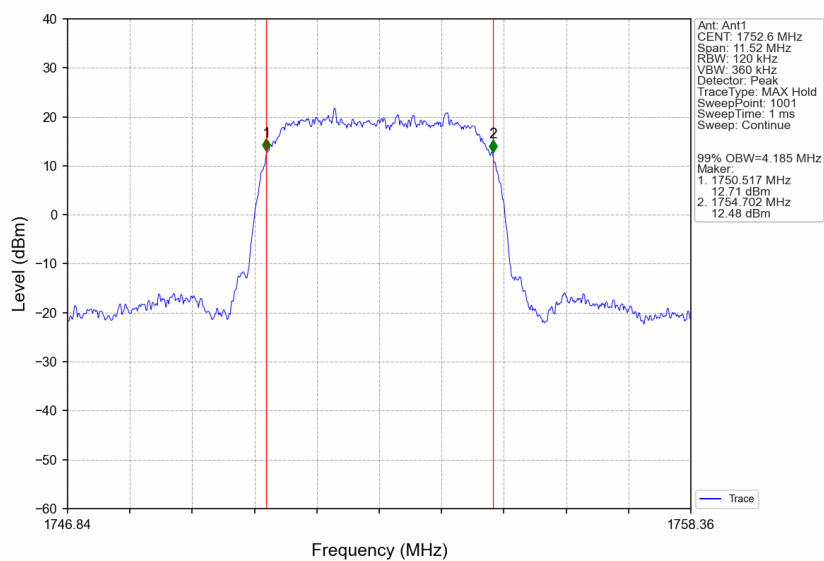
Band: 4						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	4.730	/	Pass
			1732.6	4.730	/	Pass
			1752.6	4.722	/	Pass
	HSDPA	Subtest 1	1712.4	5.226	/	Pass
			1732.6	5.499	/	Pass
			1752.6	4.901	/	Pass
	HSUPA	Subtest 1	1712.4	5.632	/	Pass
			1732.6	5.891	/	Pass
			1752.6	5.962	/	Pass

3.2 Test Graph

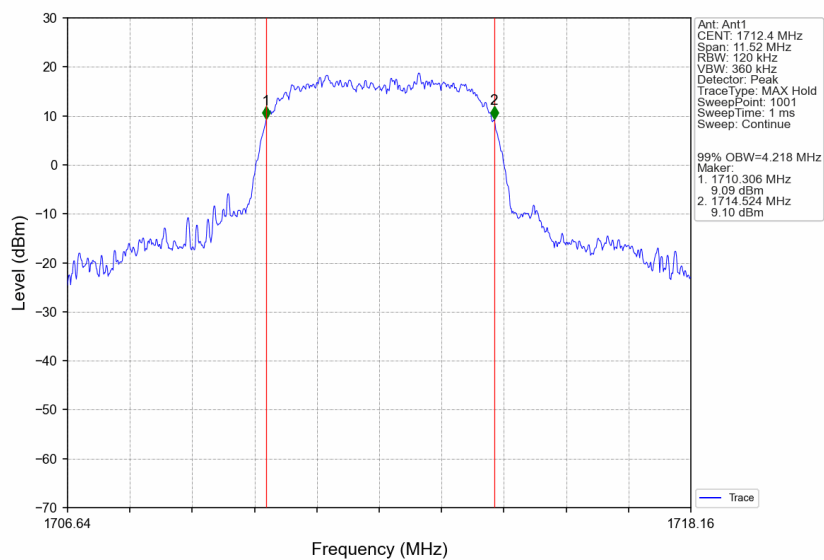
3.2.1 Band4_OBW



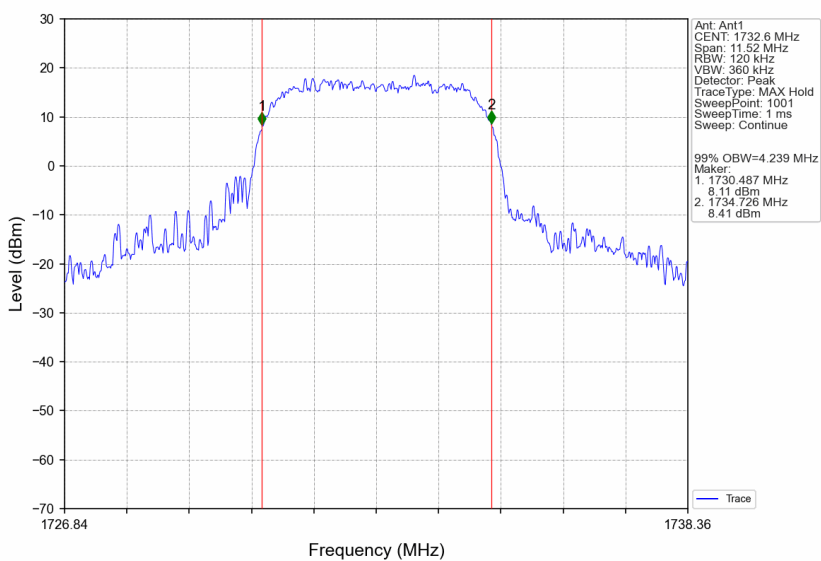
Band4_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



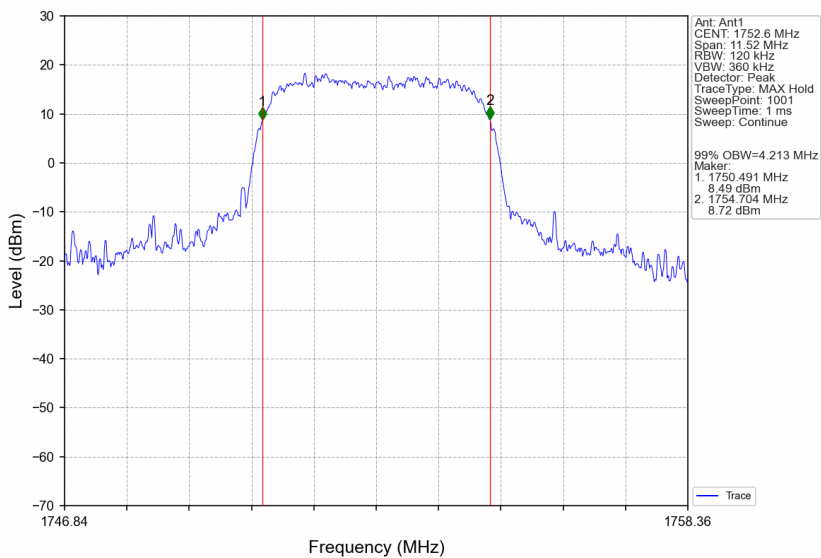
Band4_HSDPA_LCH_1712.4MHz_Subtest 1_NTNV



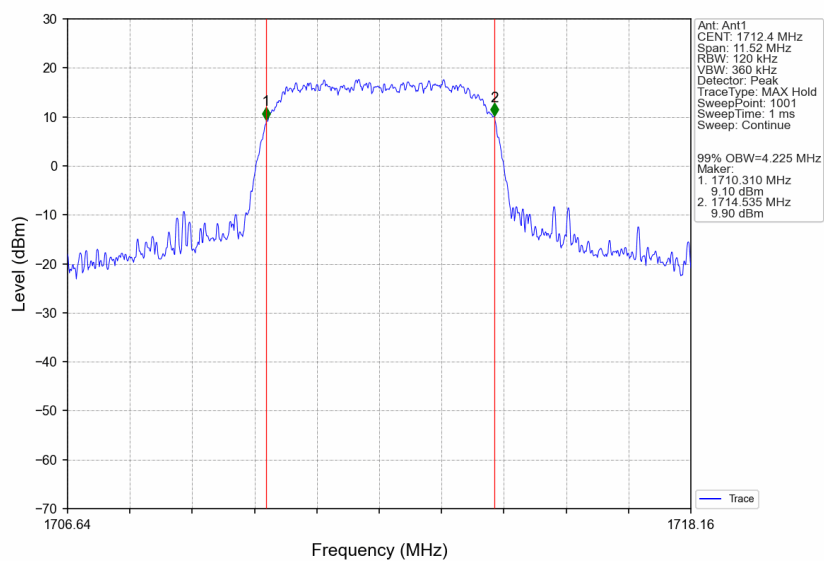
Band4_HSDPA_MCH_1732.6MHz_Subtest 1_NTNV



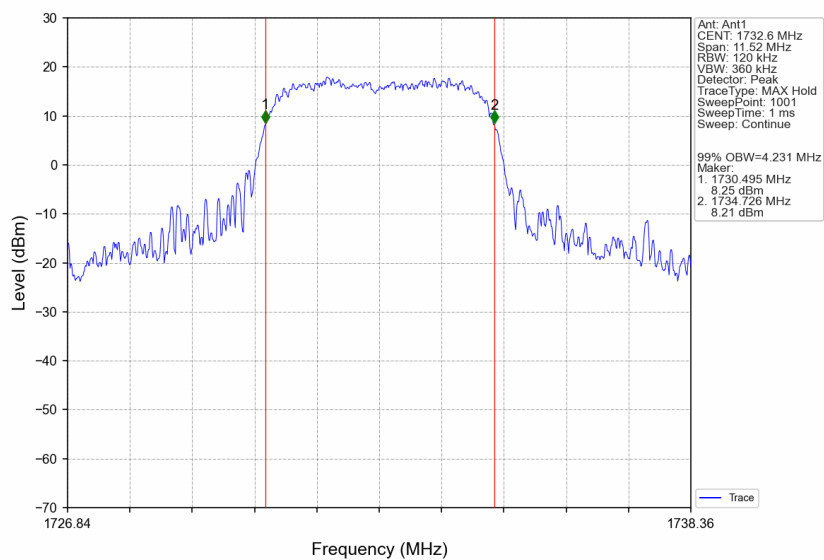
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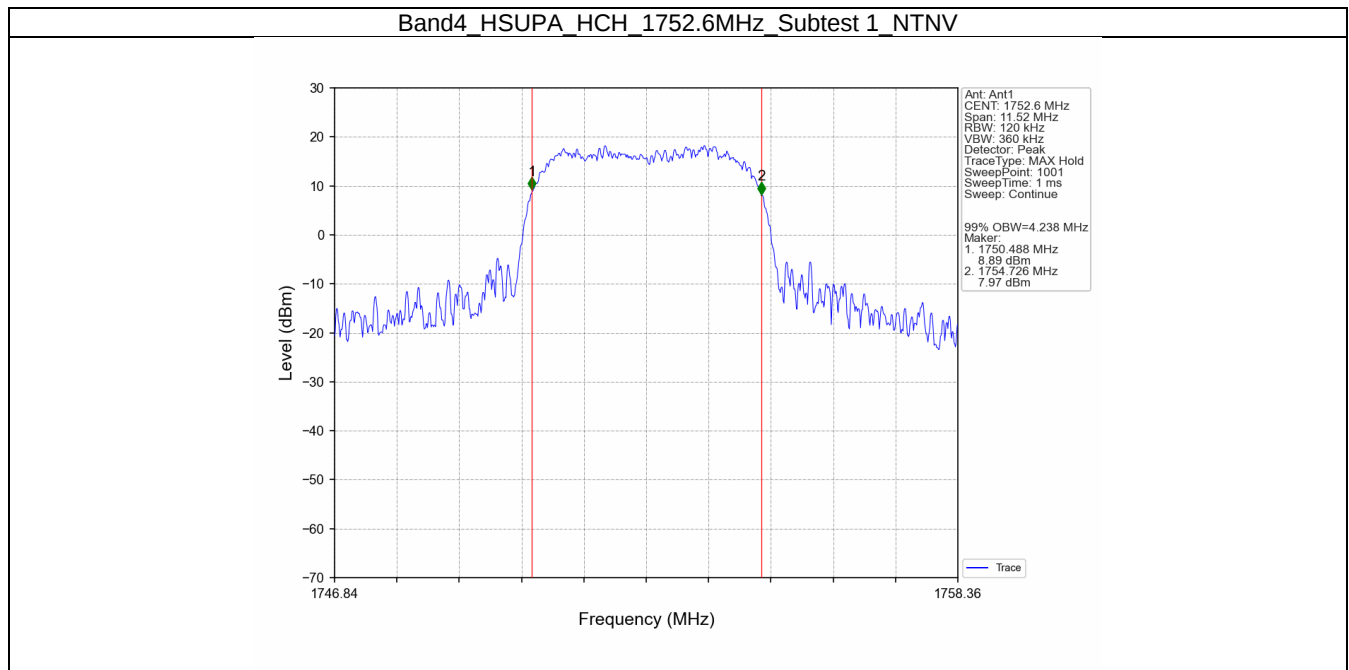


Band4_HSUPA_LCH_1712.4MHz_Subtest 1_NTNV

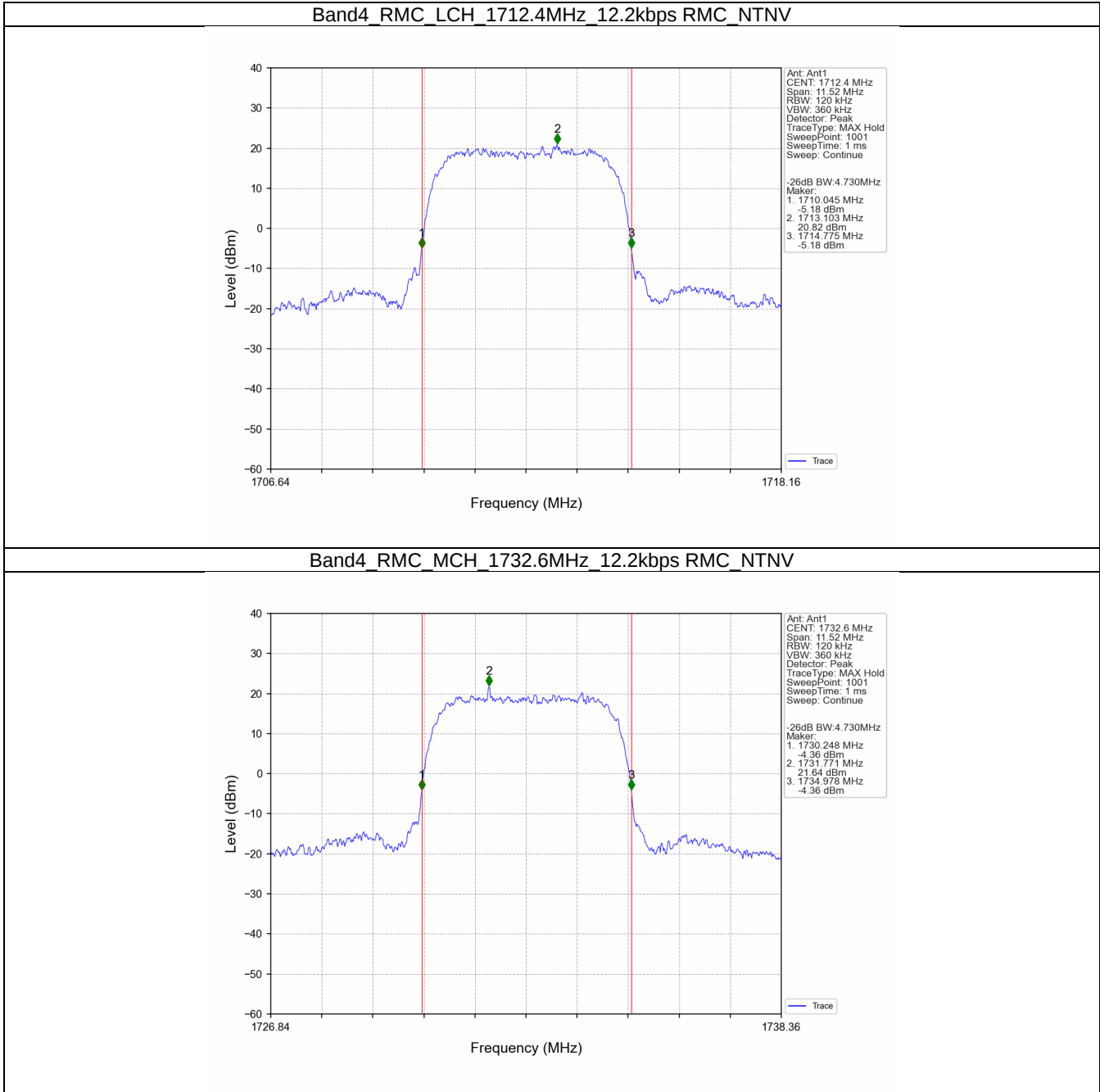


Band4_HSUPA_MCH_1732.6MHz_Subtest 1_NTNV

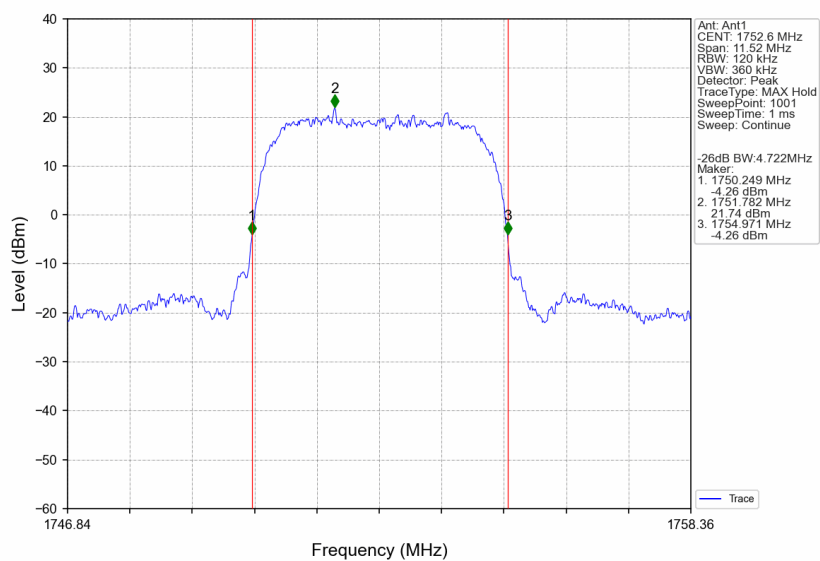




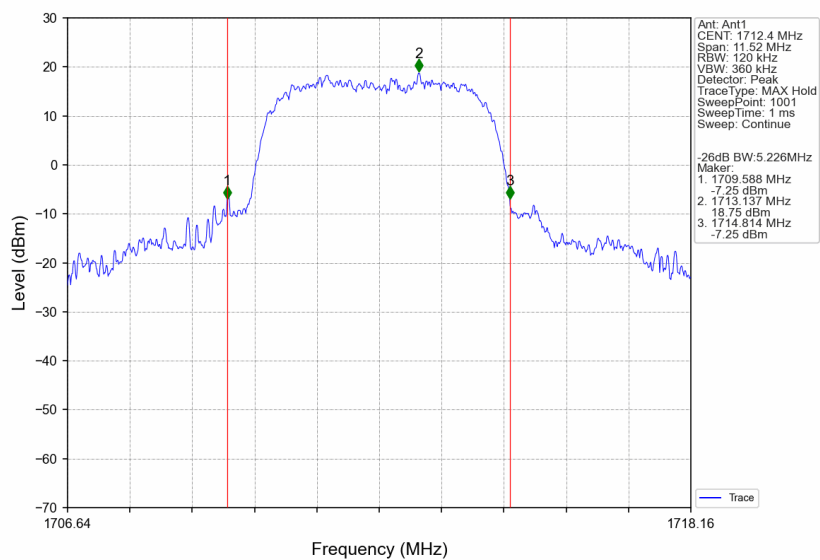
3.2.2 Band4_XDB



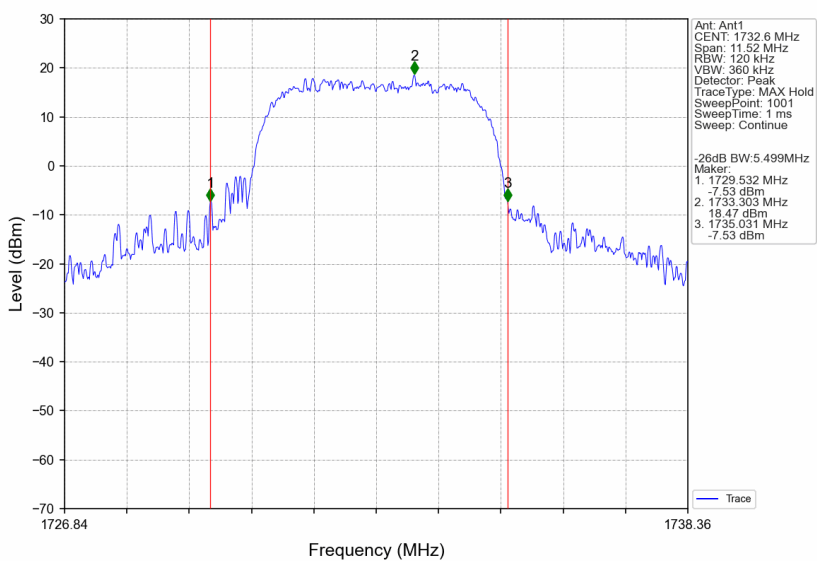
Band4_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



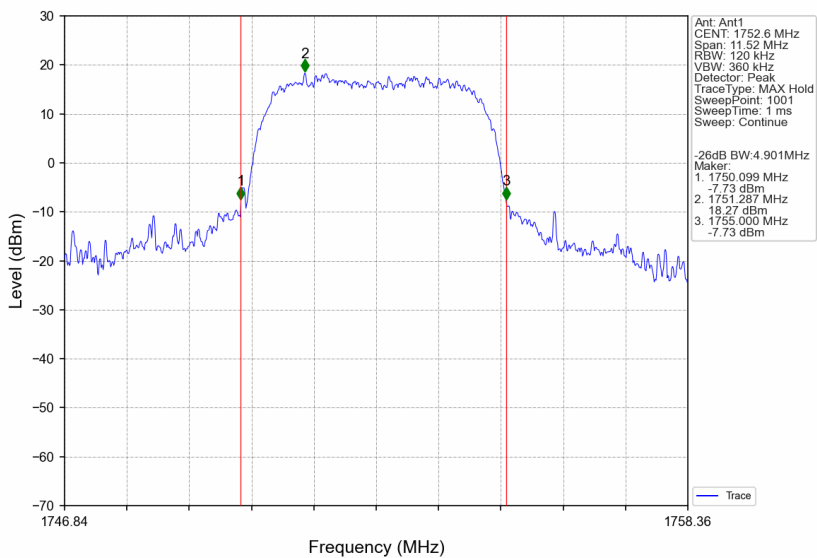
Band4_HSDPA_LCH_1712.4MHz_Subtest 1_NTNV



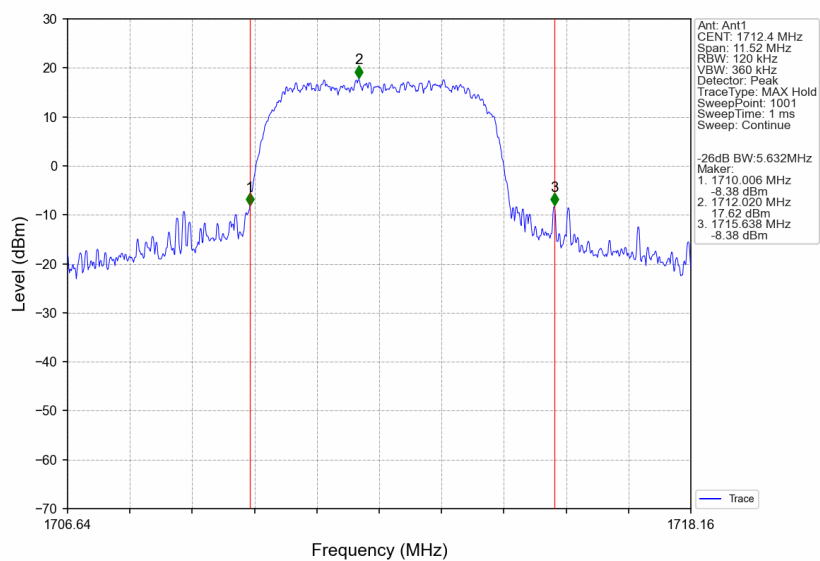
Band4_HSDPA_MCH_1732.6MHz_Subtest 1_NTNV



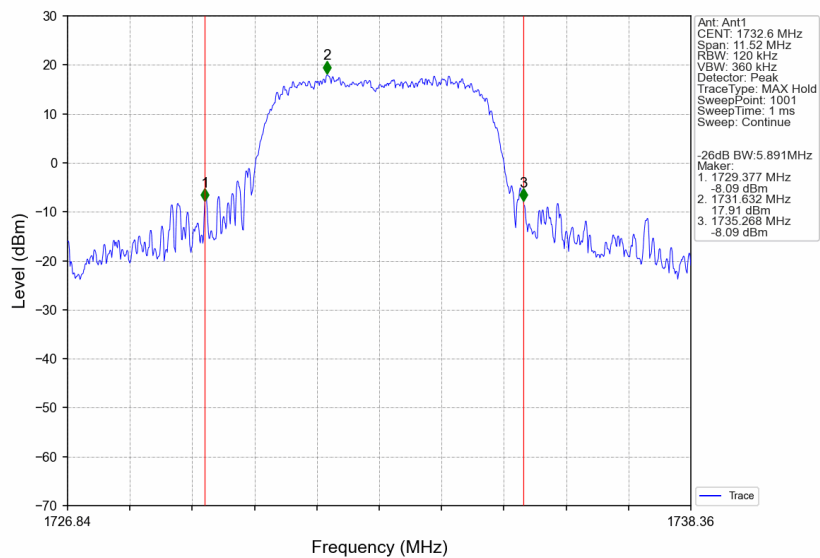
Band4_HSDPA_HCH_1752.6MHz_Subtest 1_NTNV

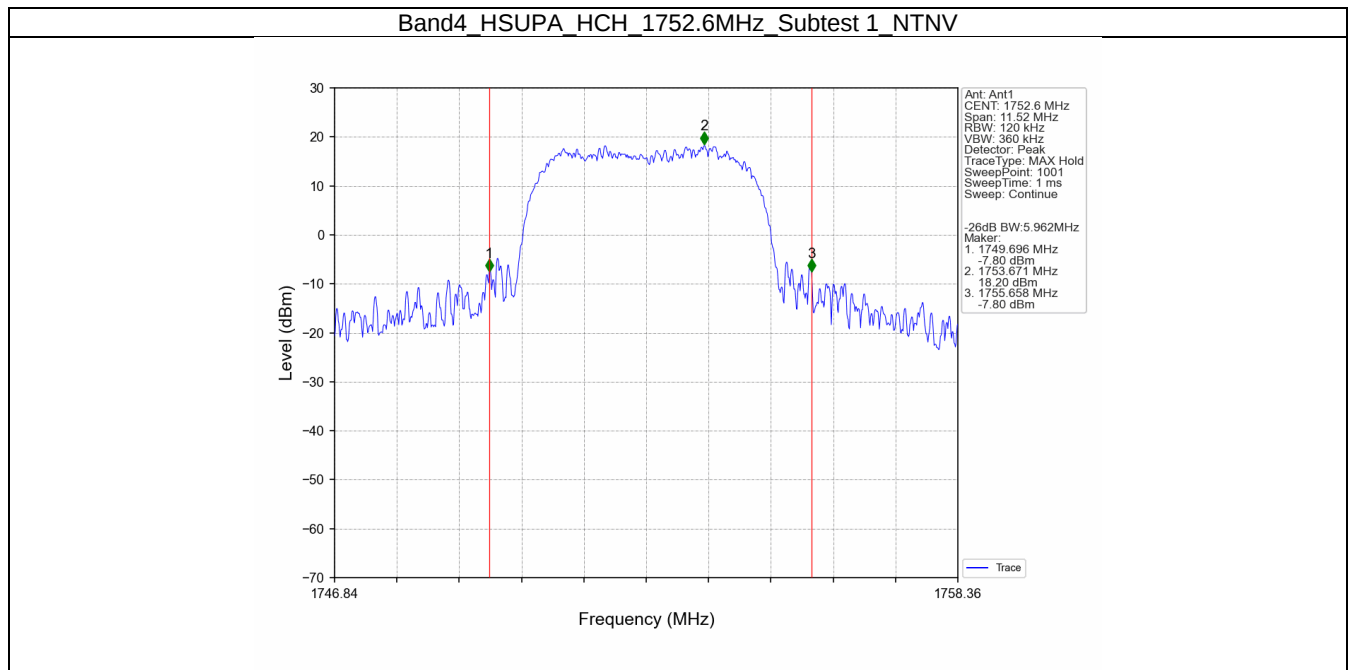


Band4_HSUPA_LCH_1712.4MHz_Subtest 1_NTNV



Band4_HSUPA_MCH_1732.6MHz_Subtest 1_NTNV





4. Peak-Average Ratio

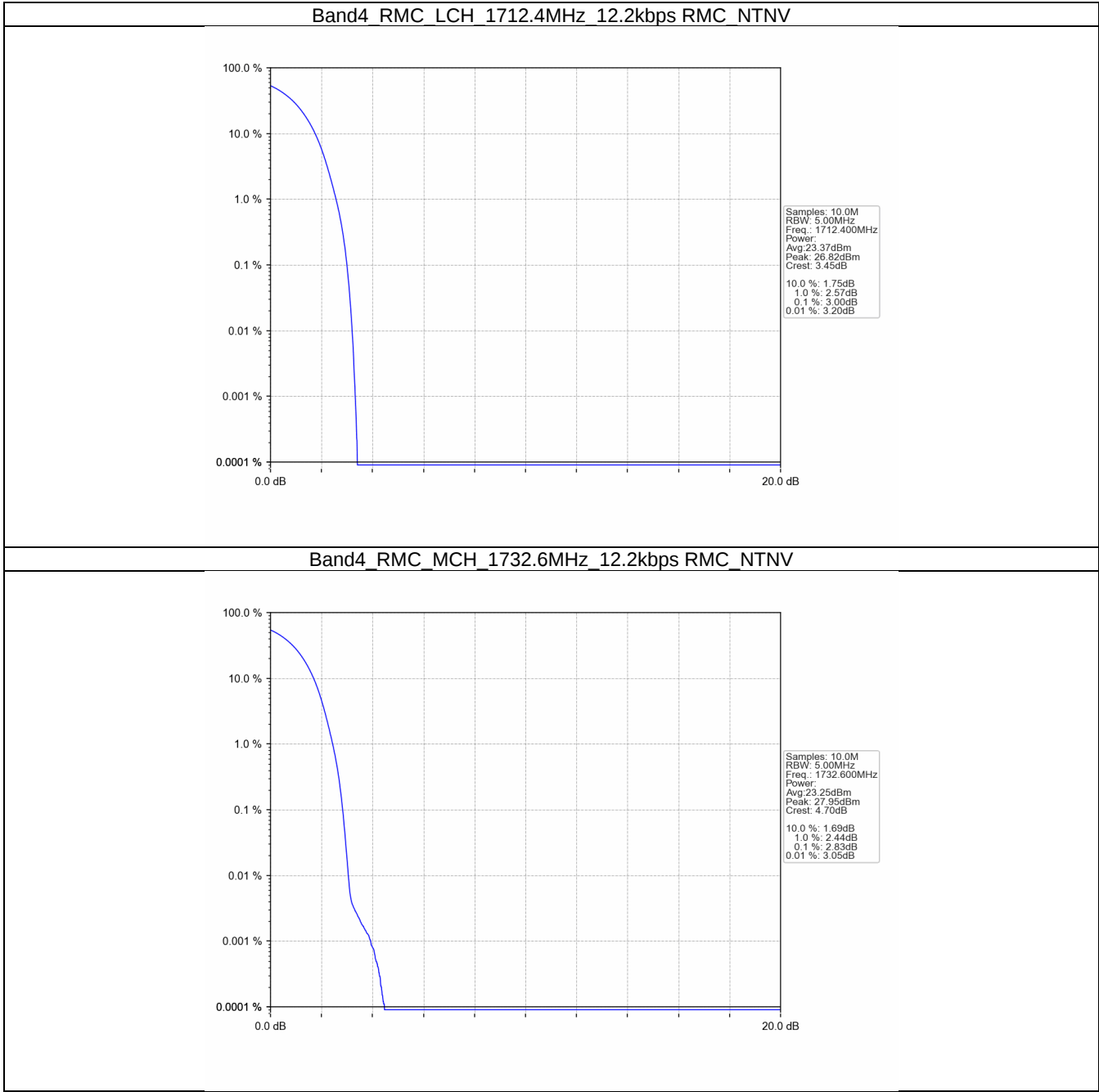
4.1 Test Result

4.1.1 Band4

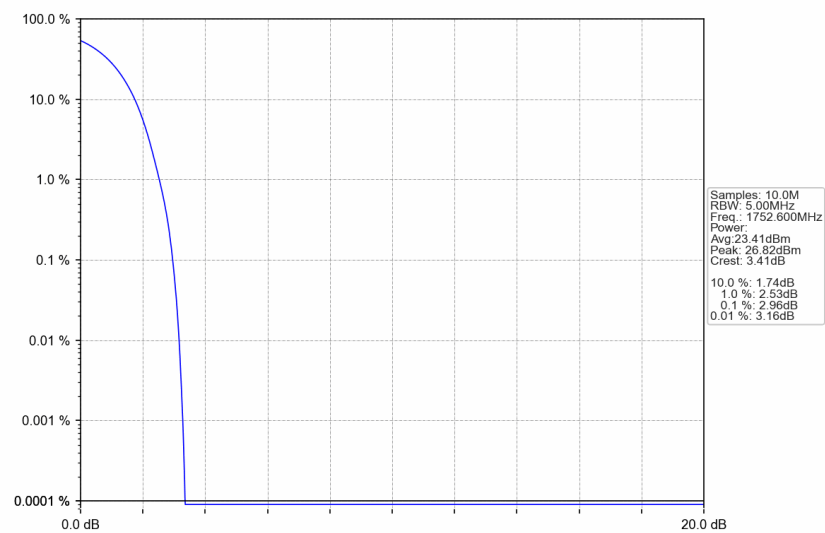
Band: 4						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	3.00	<=13	Pass
			1732.6	2.83	<=13	Pass
			1752.6	2.96	<=13	Pass
	HSDPA	Subtest 1	1712.4	5.98	<=13	Pass
			1732.6	5.86	<=13	Pass
			1752.6	6.02	<=13	Pass
	HSUPA	Subtest 1	1712.4	7.05	<=13	Pass
			1732.6	6.87	<=13	Pass
			1752.6	6.96	<=13	Pass

4.2 Test Graph

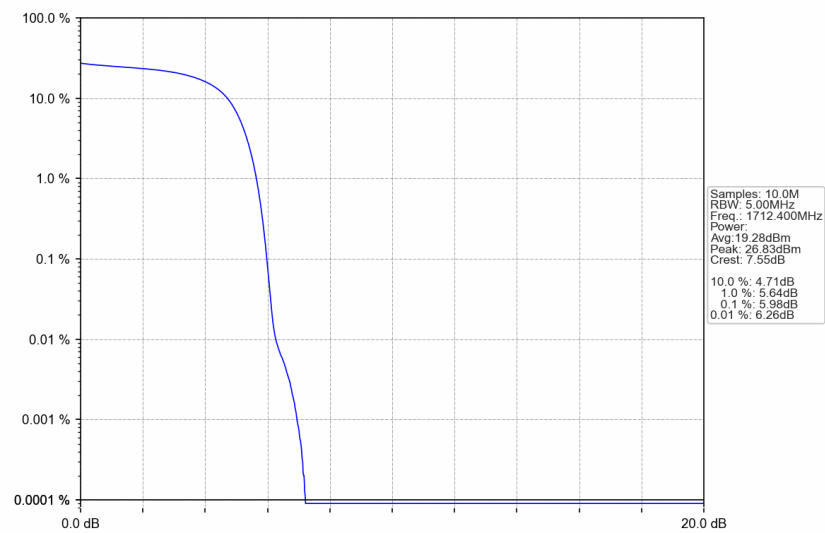
4.2.1 Band4



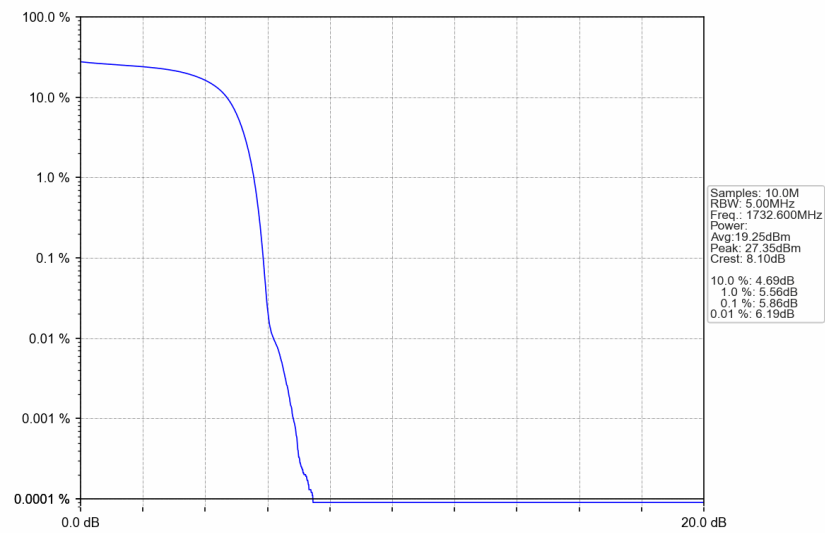
Band4_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



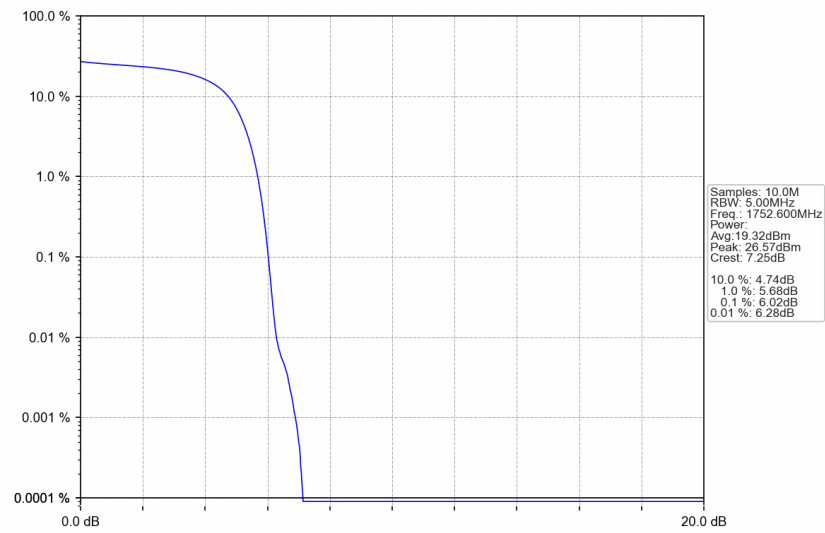
Band4_HSDPA_LCH_1712.4MHz_Subtest 1_NTNV



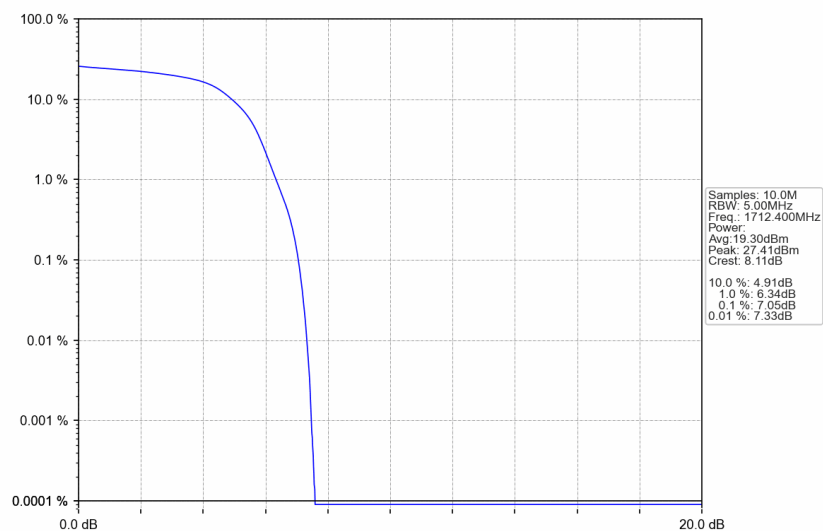
Band4_HSDPA_MCH_1732.6MHz_Subtest 1_NTNV



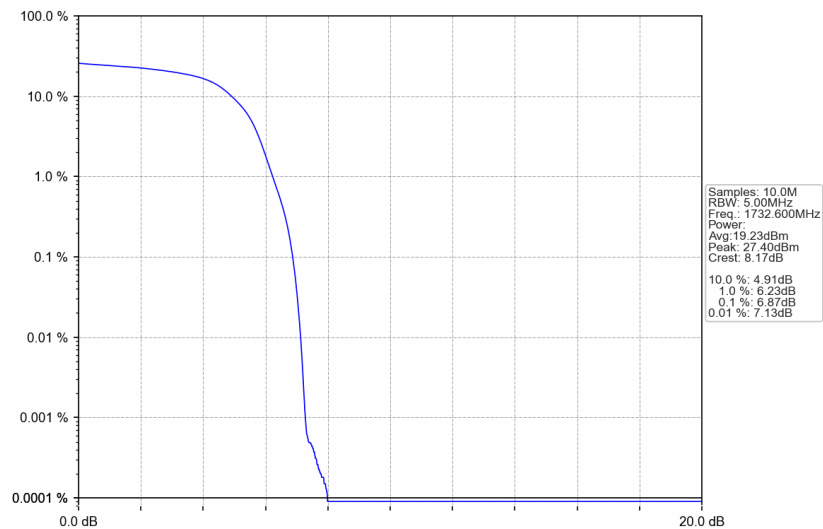
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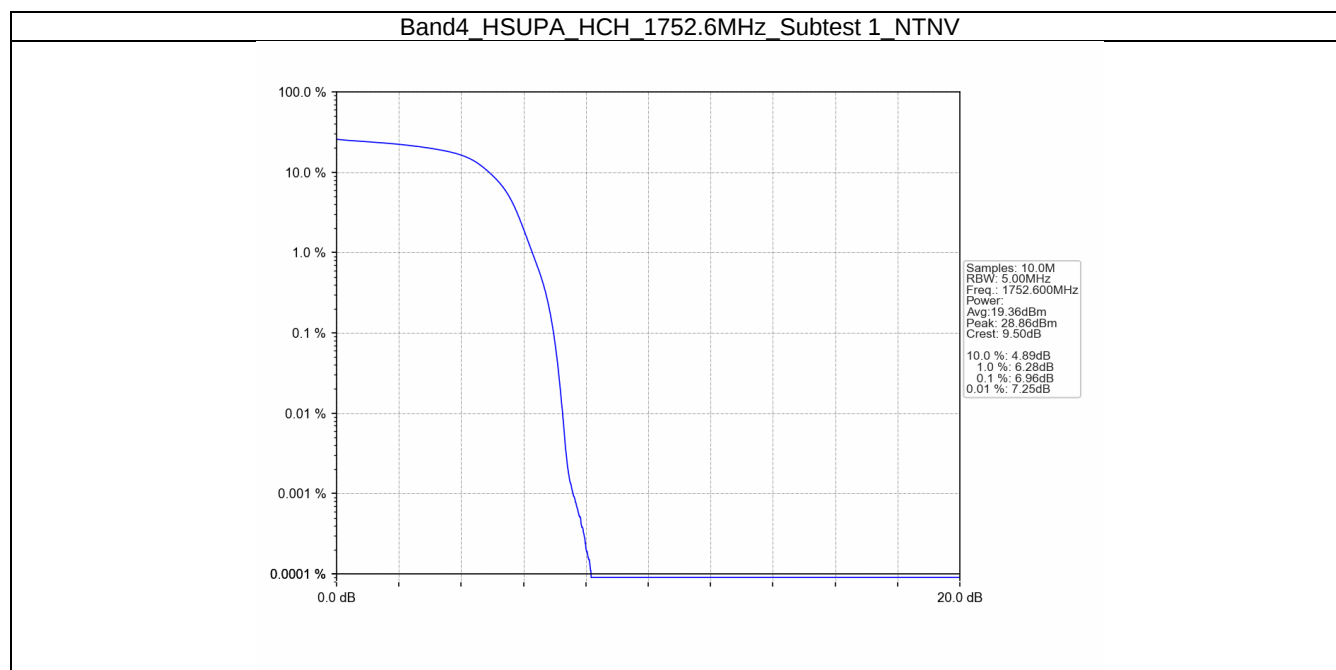


Band4_HSUPA_LCH_1712.4MHz_Subtest 1_NTNV



Band4_HSUPA_MCH_1732.6MHz_Subtest 1_NTNV





5. Spurious Emission

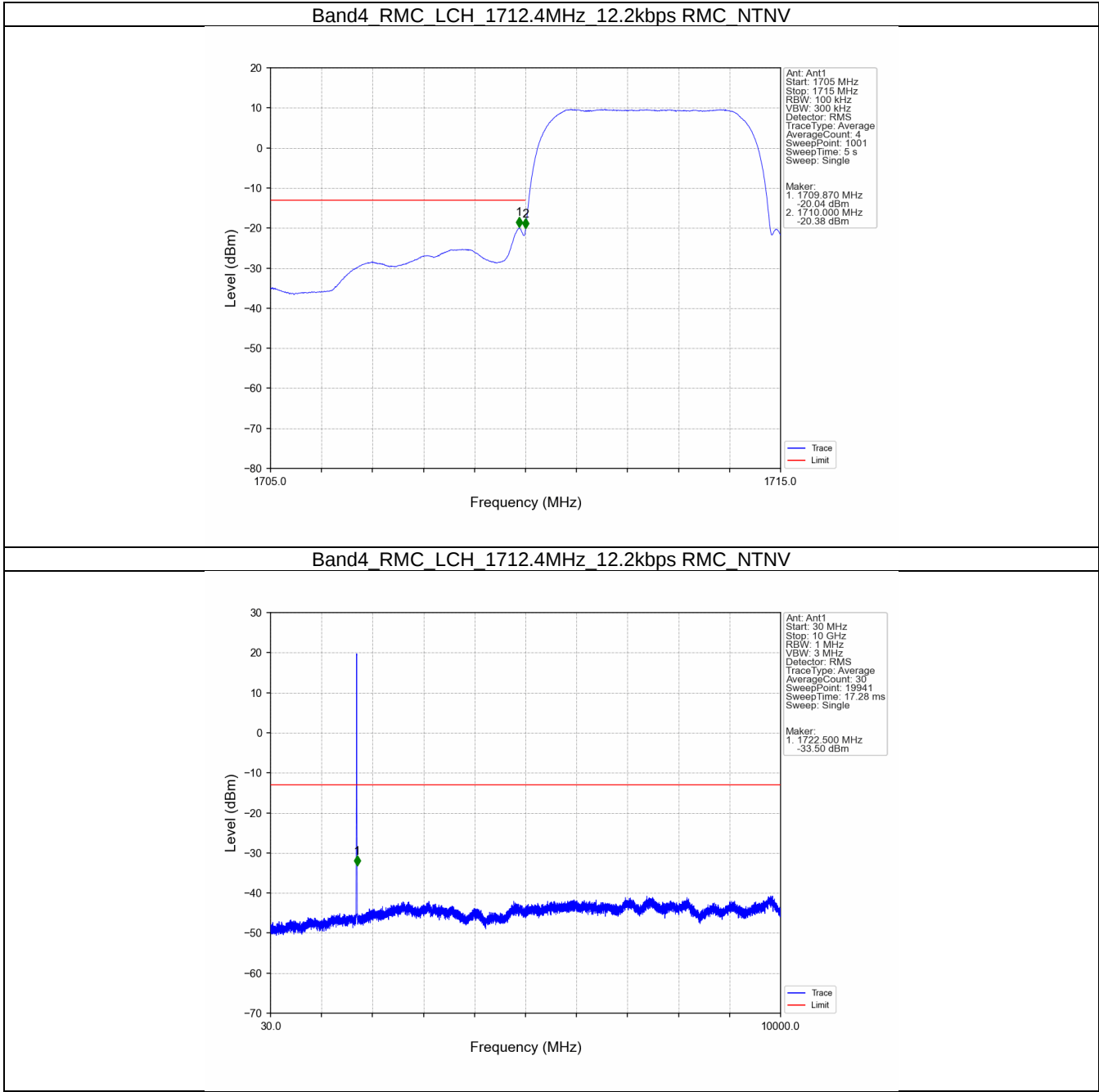
5.1 Test Result

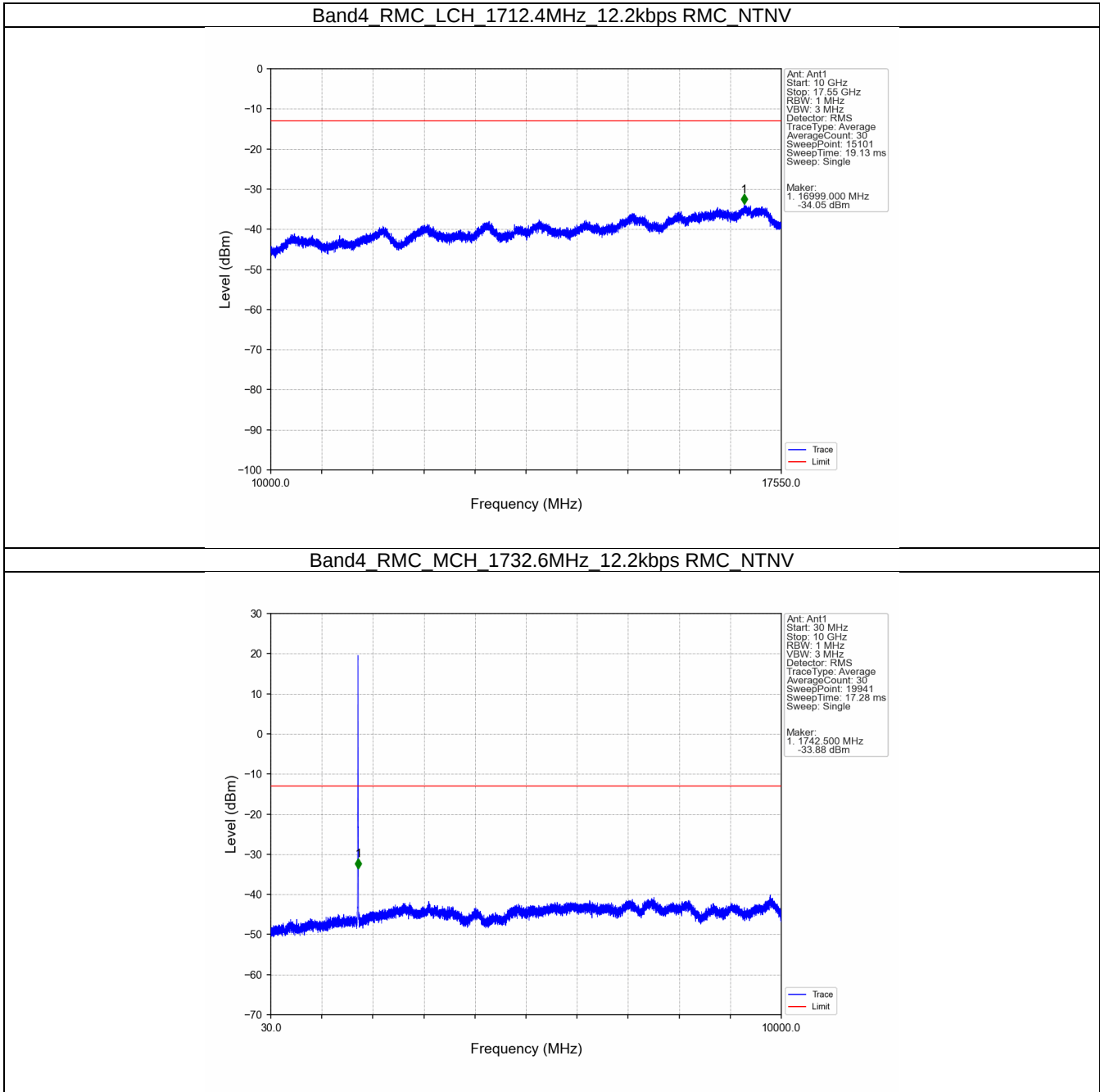
5.1.1 Band4

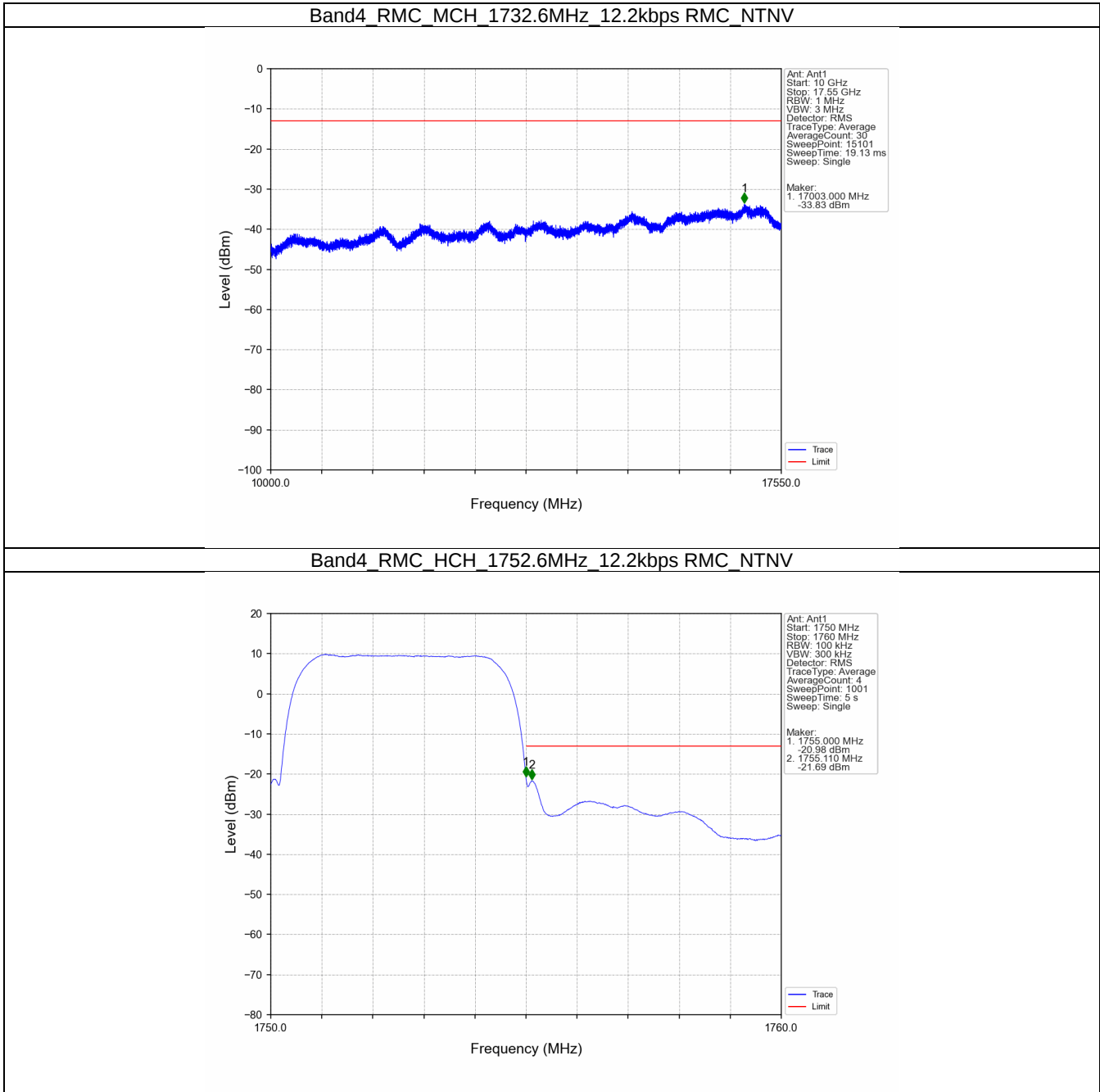
Band: 4						
ENV	Mode		Frequency (MHz)	Spurious Emission		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	Refer To Test Graph	Pass	
			1732.6	Refer To Test Graph	Pass	
			1752.6	Refer To Test Graph	Pass	
	HSDPA	Subtest 1	1712.4	Refer To Test Graph	Pass	
			1732.6	Refer To Test Graph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

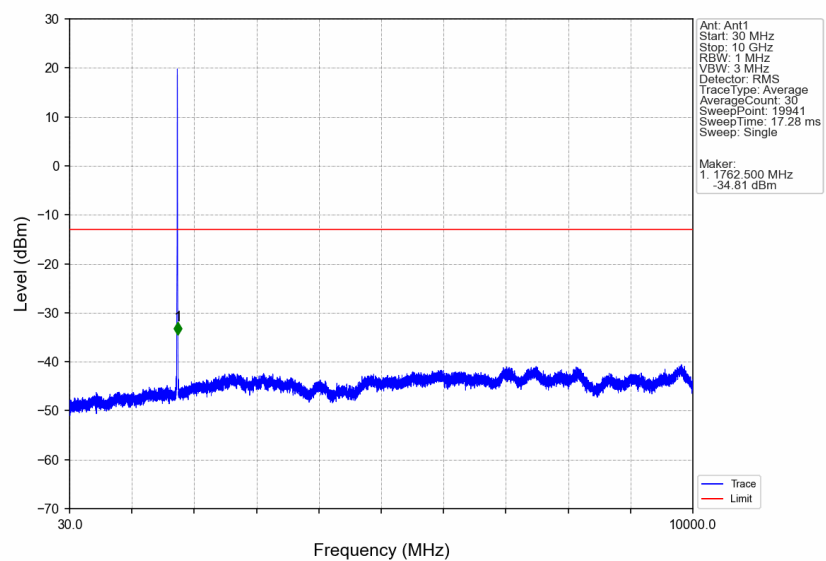
5.2.1 Band4



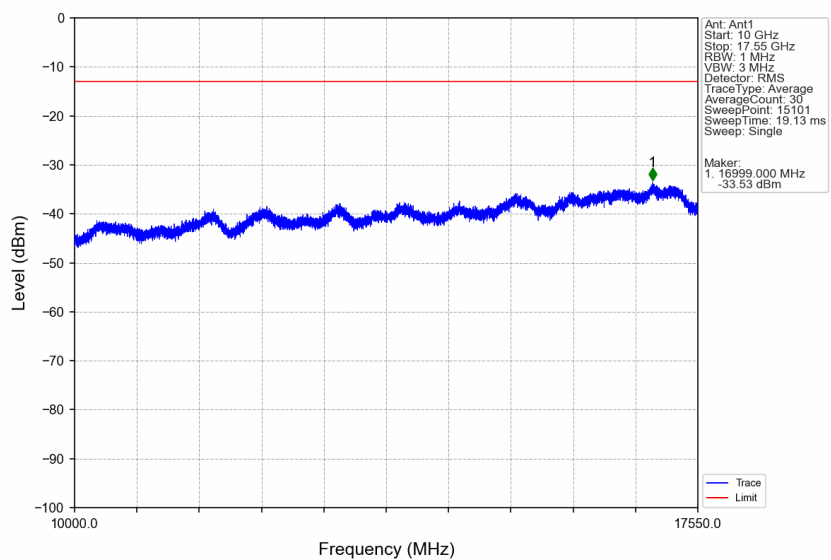




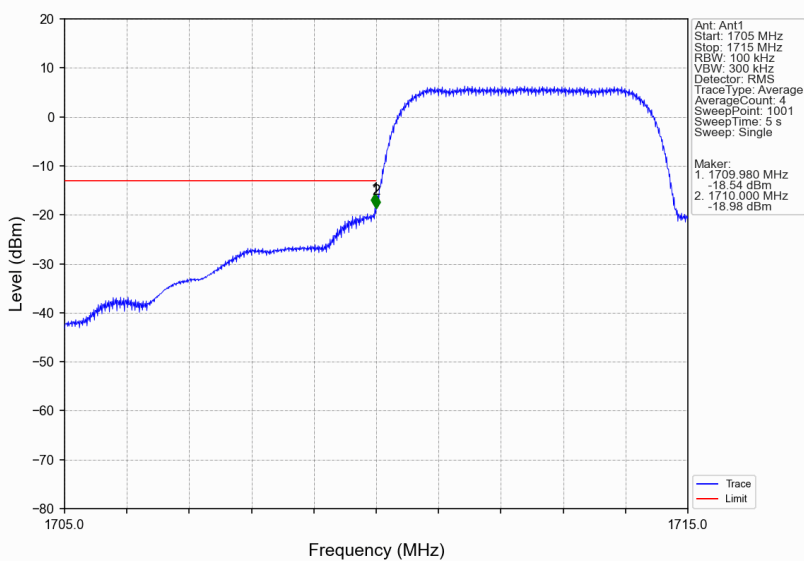
Band4_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



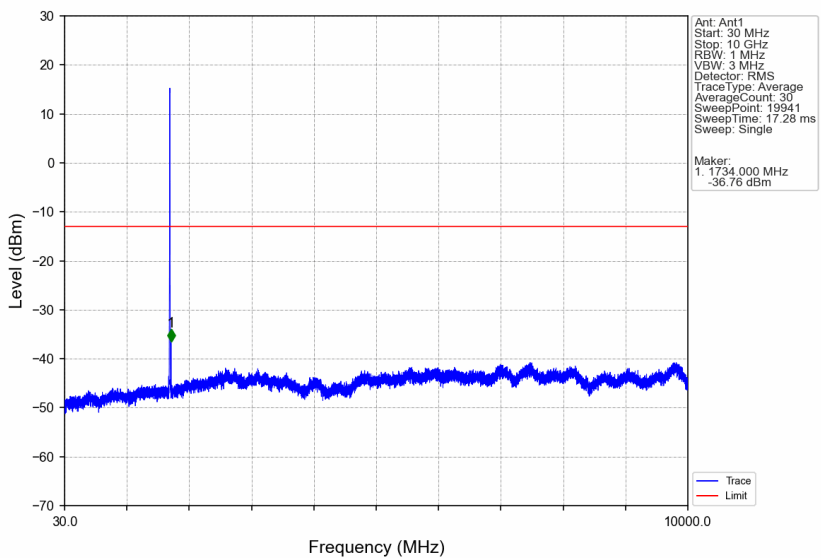
Band4_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



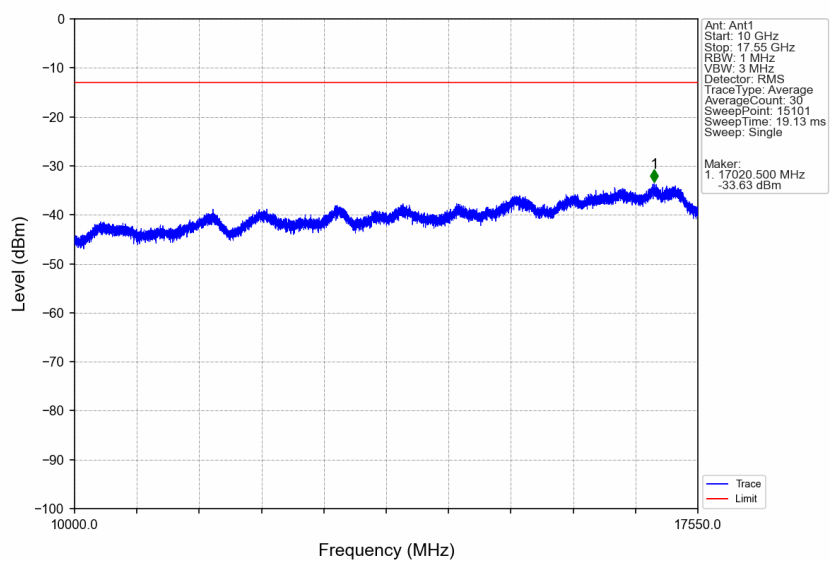
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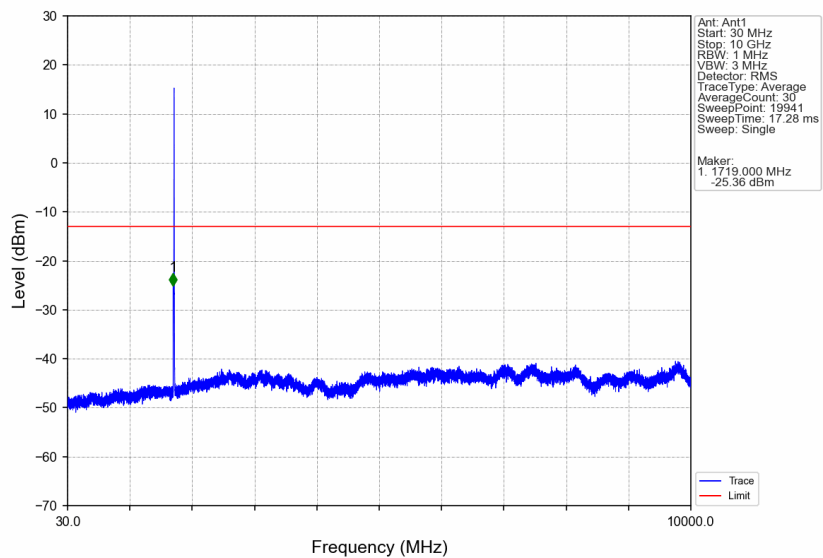
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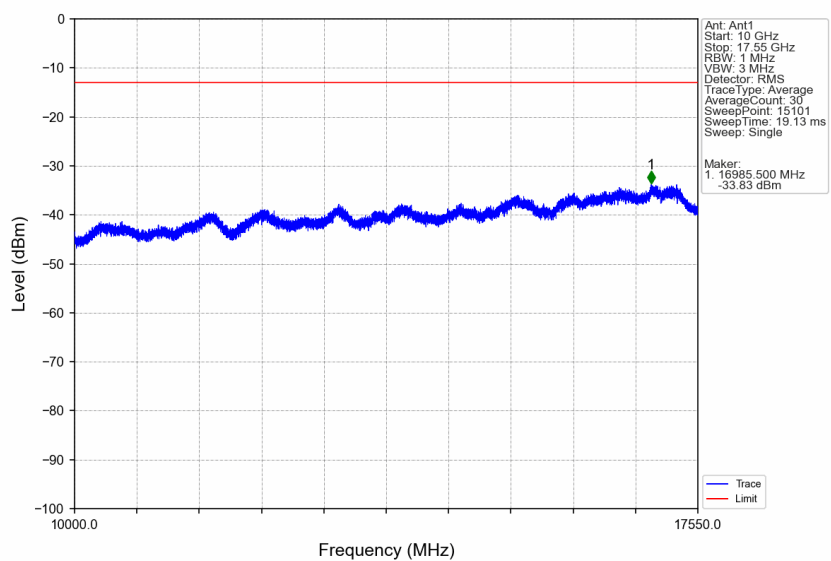
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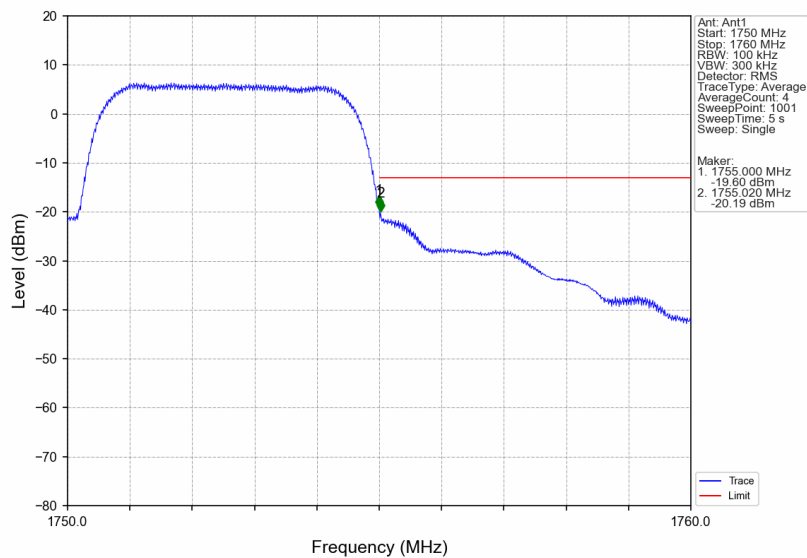
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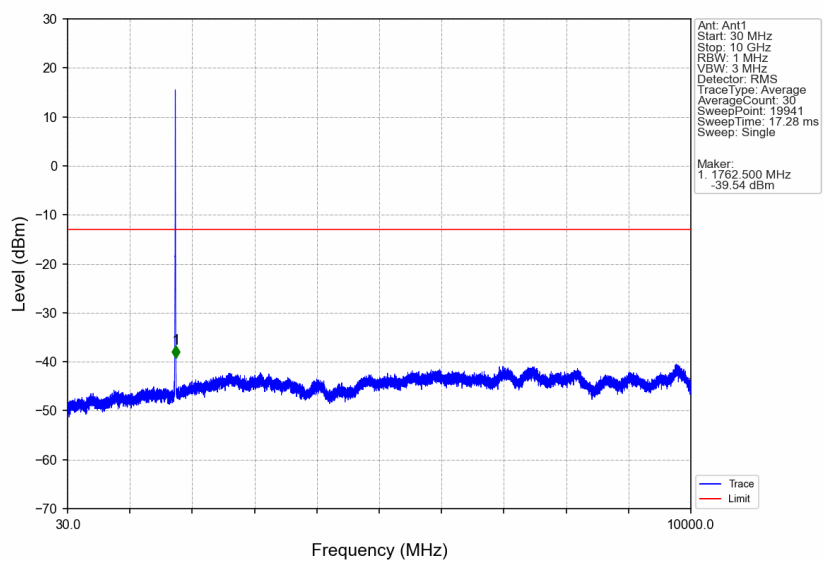
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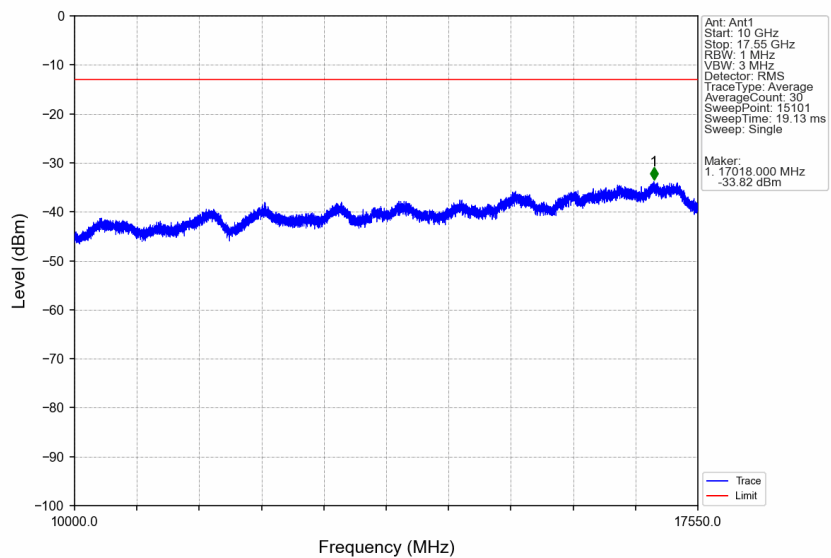
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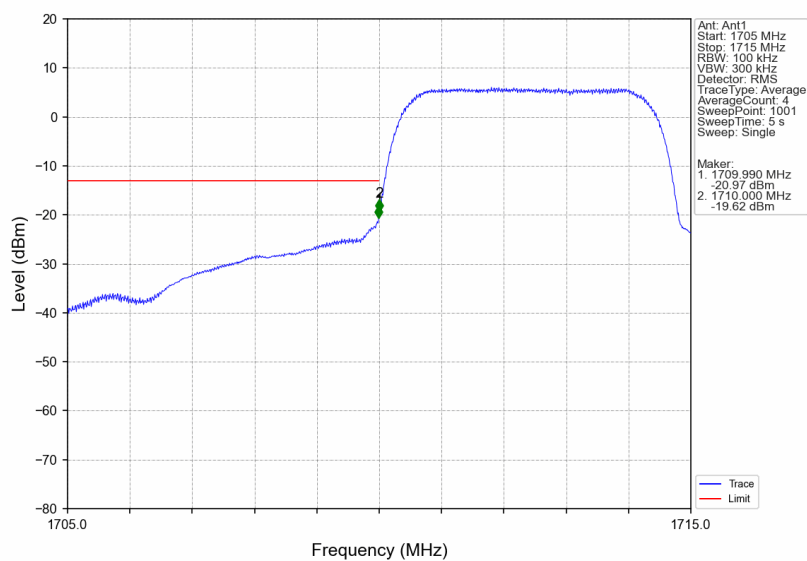
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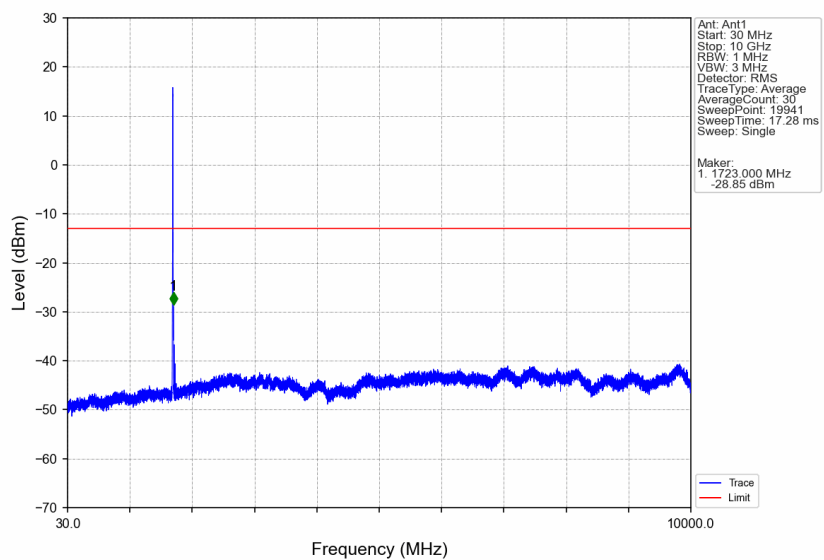
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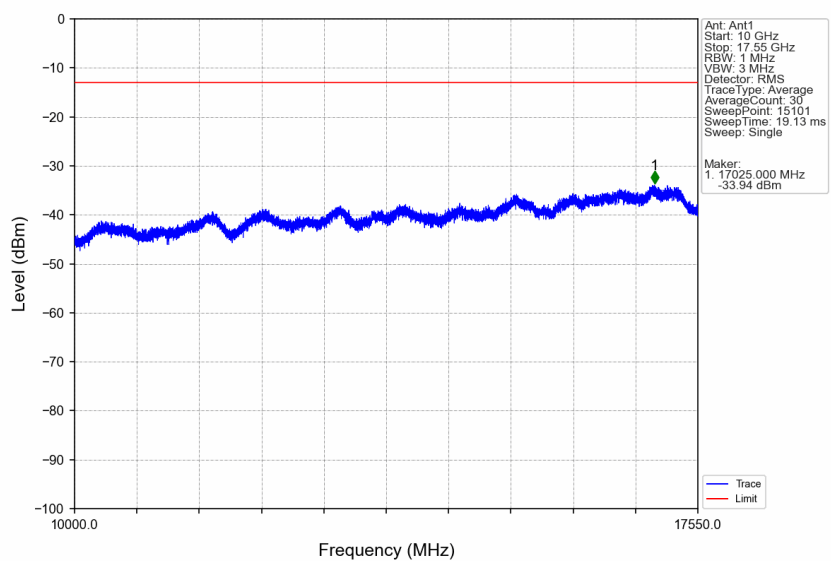
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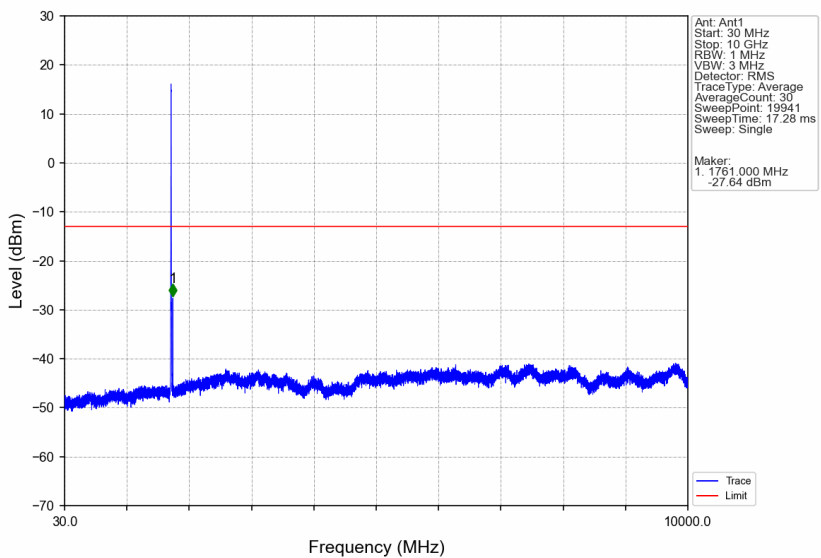
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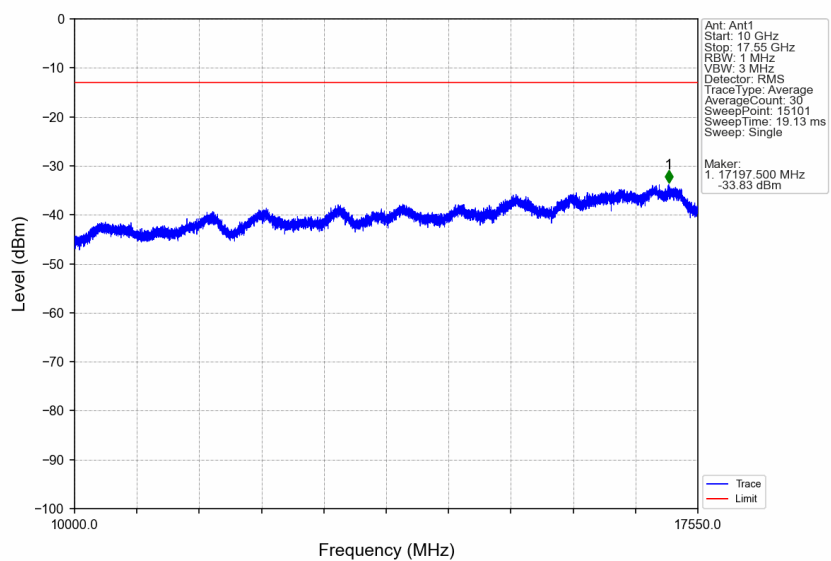
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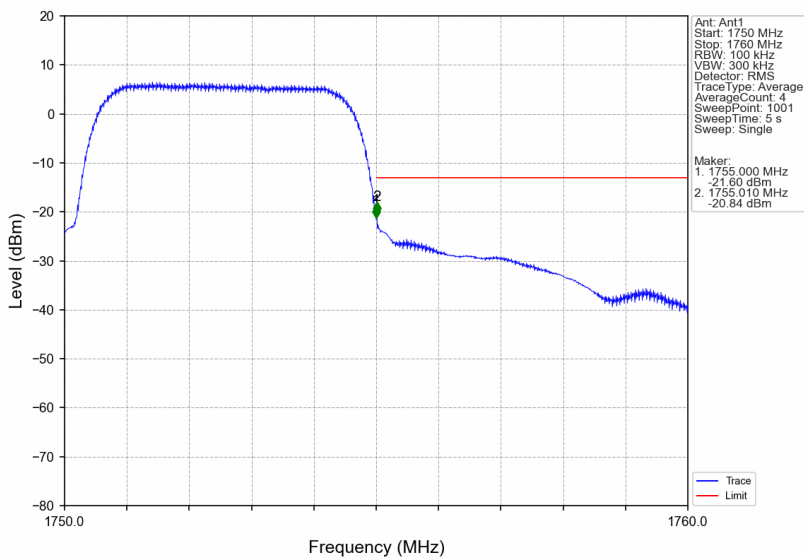
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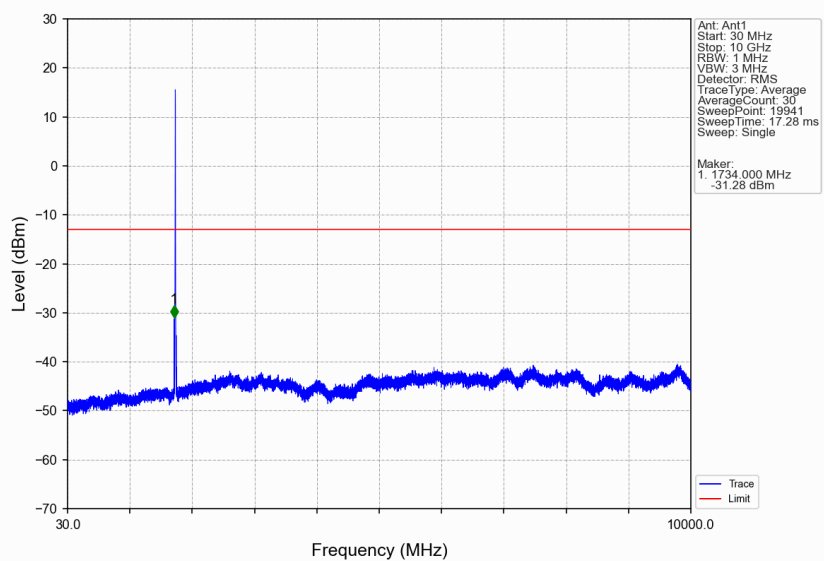
Band4_HSUPA_MCH_1732.6MHz_Subtest 1_NTNV



Band4_HSUPA_HCH_1752.6MHz_Subtest 1_NTNV



Band4_HSUPA_HCH_1752.6MHz_Subtest 1_NTNV



Band4_HSUPA_HCH_1752.6MHz_Subtest 1_NTNV

